



47 CFR PART 22H& 24E

TEST REPORT

of

Mobile Phone

Brand Name: Olive
Model Name: V-C2110
Report No.: SZ10080105E02
FCC ID.: YHG1010V-C2110

prepared for

OLIVE TELECOM (HK) LIMITED
UNIT 3201 A 32/F CITY CORP CENTER 18 WHITFIELD ROAD

Shenzhen Morlab Communications Technology Co., Ltd.

Morlab Laboratory

3/F, Electronic Testing Building, Shaha Road, Xili,
Nanshan District, Shenzhen, 518055 P. R. China

Tel: +86 755 86130398
Fax: +86 755 86130318



CTIA Authorized Test Lab

LAB CODE 20081223-00

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Change History		
Issue	Date	Reason for change
1.0	November 11, 2010	First edition

1. Test Result Certification

Equipment under Test: Mobile Phone

Brand Name: Olive

Model Name: V-C2110

FCC ID: YHG1010V-C2110

Applicant: OLIVE TELECOM (HK) LIMITED
UNIT 3201 A 32/F CITY CORP CENTER 18 WHITFIELD ROAD

Manufacturer: Haier

No.1, Haier Road, Hi-tech Zone, Qingdao, 266101, P.R.China

Test Standards: 47 CFR Part 2

47 CFR Part 22 Subpart H

47 CFR Part 24 Subpart E

Test Date(s): August 26, 2010 – November 02, 2010

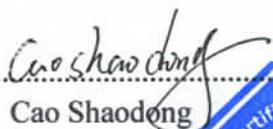
Test Result: PASS

* We Hereby Certify That:

The equipment under test was tested by Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory. The test data, data evaluation, test procedures and equipment configurations shown in this report were made in accordance with the requirement of related FCC rules.

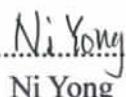
The test results of this report only apply for the tested sample equipment identified above. The test report shall be invalid without all the signatures of the test engineer, the reviewer and the approver.

Tested by:

 Cao Shaodong

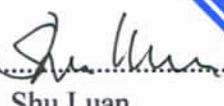
Dated: 2010.11.11

Reviewed by:

 Ni Yong
Ni Yong

Dated: 2010.11.11

Approved by:

 Shu Luan

Dated: 2010.11.11



2. General Information

2.1 Equipment under Test (EUT) Description

Description: Mobile Phone
Model Name: V-C2110
Serial No.: N/A
Hardware Version: SP
Software Version.....: OL2110MT01
Emission Designator.....: 1M25F9W
Modulation: CDMA 1X
Frequency: Tx: 824.7 – 848.31 MHz; Rx: 869.7-893.31MHz
Tx: 1851.25 MHz -1908.75 MHz; Rx: 1931.25 MHz-1988.75 MHz
Power Supply:: Battery
Brand name: Olive
Model Name: H11132
Capacitance: 800mAh
Rated voltage: 3.7V
Charge limited: 4.2V
Manufacturer: SHENZHEN BAK BATTERY Co., LTD.
Accessory Equipment:.....: AC Adapter (Charger for Battery)
Brand Name: Olive
Model Name: ZW51126C
Rated Input: ~ 100V-240V, 0.2A, 50- 60Hz
Rated Output: == 4.8V, 550mA
Manufacturer: Ningbo Lishunda Electronics Co., Ltd.

NOTE:

1. The EUT is a model of CDMA 1X800/1900MHz digital mobile phone.
2. The normal configuration for the EUT is the Mobile Phone (MS) associated with ancillary equipments e.g. the Battery and/or the AC Adapter (Charger).
3. For detailed features about the EUT, please see user manual supplied by the applicant.

2.2 Test Standards and Results

The objective of the report is to perform tests according to 47 CFR Part 2, Part 22 for FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 2 (10-1-09 Edition)	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22 (10-1-09 Edition)	Public Mobile Services
3	47 CFR Part 24 (10-1-09 Edition)	Personal Communications Services

Test detailed items and the results are as below:

No.	Rules	Test Type	Result
FCC Part 22 Requirement			
1	§2.106, §22.905	Frequencies	PASS
2	§2.1046	Conducted RF Output Power at Antenna Terminal	PASS
3	§2.1049	Occupied Bandwidth	PASS
4	§2.1051, §2.1057 §22.917	Conducted Spurious Emission at Antenna Terminal	PASS
5	§22.913	Transmitter Radiated Power (EIPR/ERP)	PASS
6	§2.1053, §2.1057 §22.917	Radiated Spurious Emission	PASS
7	§2.1055, §22.355	Frequency Stability	PASS
FCC Part 24 Requirement			
1	§2.106, §24.229	Frequencies	PASS
2	§2.1046	Conducted RF Output Power	PASS
3	§2.1049	20dB Occupied Bandwidth	PASS
4	§2.1055, §24.235	Frequency Stability	PASS
5	§2.1051, §2.1057, §24.238	Conducted Out of Band Emissions	PASS
6	§2.1051, §2.1057, §24.238	Band Edge	PASS
7	§24.232	Transmitter Radiated Power (EIPR/ERP)	PASS

2.3 Facilities and Accreditations

2.3.1 Facilities

Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L3572.

All measurement facilities used to collect the measurement data are located at 3/F, Electronic Testing Building, Shahe Road, Xili, Nanshan District, Shenzhen, 518055 P. R. China. The site was constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22, the FCC registration number is 741109.

2.3.1 Test Equipments

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Agilent	E5515C	GB43130131	2009.09	2year
Spectrum Analyzer	Agilent	E7405A	US44210471	2009.09	2year
Power Splitter	Weinschel	1506A	NW521	(n.a.)	(n.a.)
Attenuator 1	Resnet	20dB	(n.a.)	(n.a.)	(n.a.)
Attenuator 2	Resnet	3dB	(n.a.)	(n.a.)	(n.a.)
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2009.09	2year
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2009.09	2year
Test Antenna - Horn	Schwarzbeck	BBHA 9120C	9120C-384	2009.09	2year
DC Power Supply	Good Will	GPS-3030DD	EF920938	2009.09	2year
Temperature Chamber	YinHe Experimental Equip.	HL4003T	(n.a.)	2009.09	2year

2.3.2 Test Environment Conditions

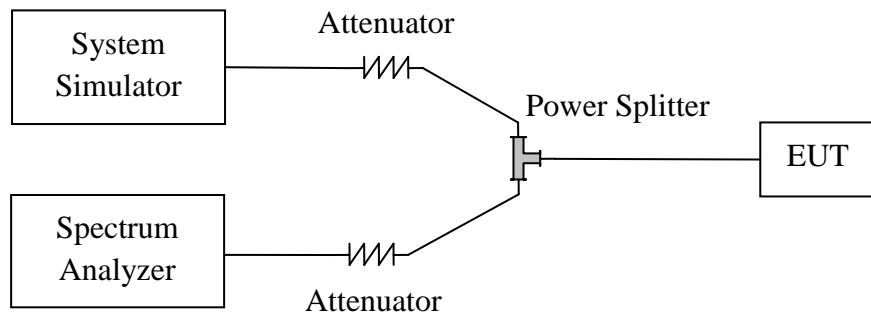
During the measurement, the environmental conditions were within the listed ranges:

Temperature:	20 - 25 °C
Relative Humidity:	40 - 60%
Atmospheric Pressure:	86-106kPa

3. 47 CFR Part 2, Part 22H Requirements

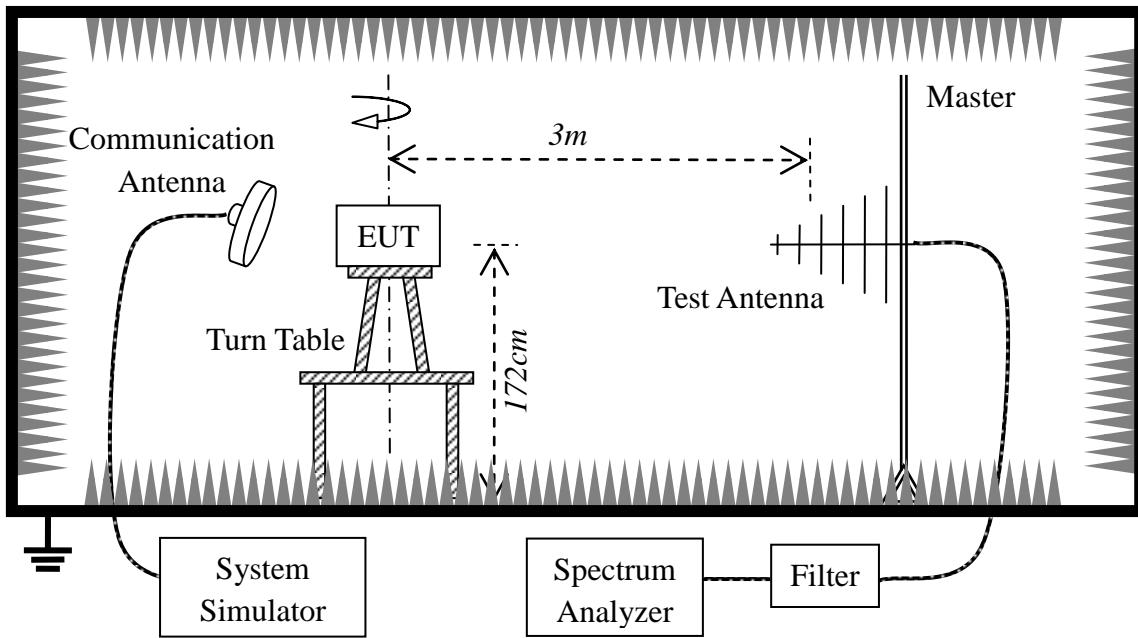
3.1 General Information

3.1.1 Conducted Related Tests



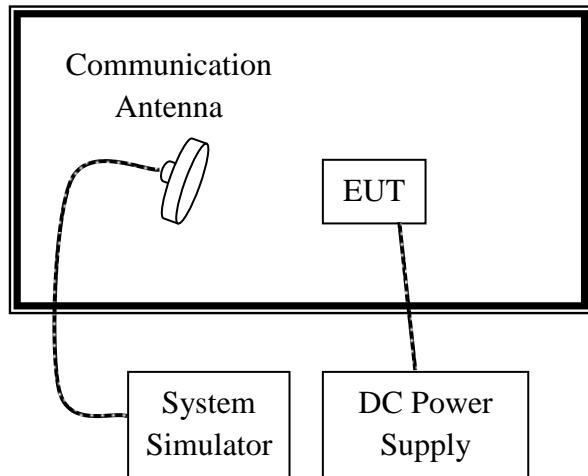
1. The EUT is coupled to the Spectrum Analyzer and the System Simulator with the suitable Attenuators through the Power Splitter; the path loss is calibrated to correct the reading.
2. The EUT is configured here as MS + Battery.
3. The EUT is commanded via the System Simulator (SS) to operate at the maximum output power .A communication link is established between the EUT and the SS.
4. The Spectrum Analyzer is set to max-peak detector function and maximum hold mode.

3.1.2 Radiated Power and Spurious Emission Tests



1. The test is performed in a full-Anechoic Chamber; the air loss of the site and the factors of the test system are pre-calibrated using the substitution method.
2. The EUT is configured as MS + Battery.
3. The EUT is placed on the vertical axis of a Turn Table 1.72 meters above the ground.
4. The Test Antenna is a bi-log one or a horn one, and the Test Antenna is at the same height as the EUT.
5. The EUT is commanded via the System Simulator (SS) to operate at the maximum output power. A communication link is established between the EUT and the SS.
6. The Spectrum Analyzer is set to max-peak detector function and maximum hold mode.

3.1.3 Frequency Stability Test



1. The test is performed in a Temperature Chamber.
2. The EUT is configured as MS + DC Power Supply.

3.2 Conducted RF Output Power

3.2.1 Requirement

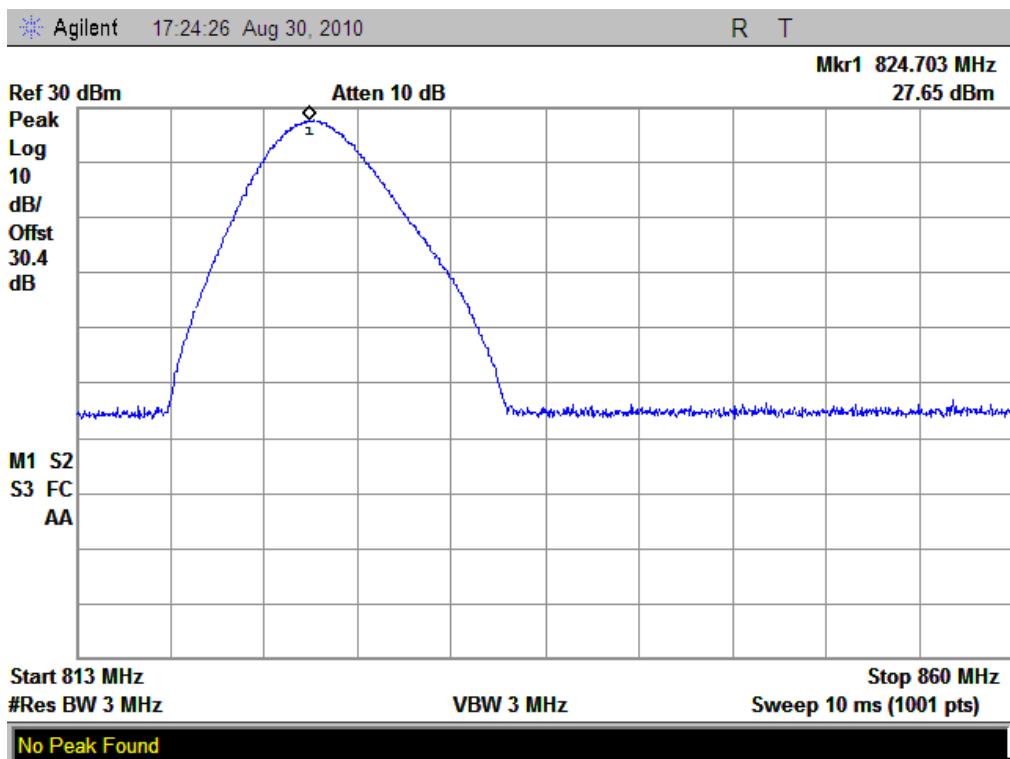
According to FCC §2.1046 (a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in §2.1033 (c)(8). The electrical characteristics of the radio frequency load attached to the output terminals when this test is made shall be stated.

3.2.2 Test Procedure

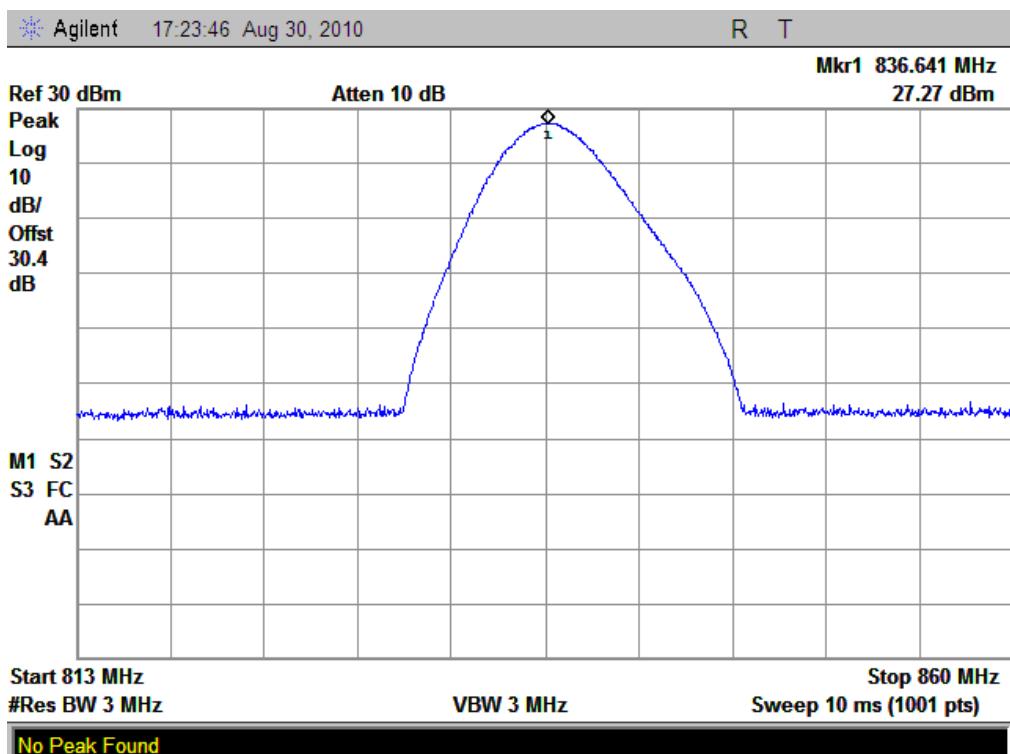
1. Perform test system setup as section 3.1.1 (the radio frequency load attached to the EUT antenna terminal is 50Ω).
2. The resolution bandwidth of the Spectrum Analyzer is set to be comparable to the emission bandwidth of the transmitter, e.g. for GSM modulated signal (here used): $\text{RBW}=\text{VBW}=1\text{MHz}$, for CDMA modulated signal: $\text{RBW}=\text{VBW}=3\text{MHz}$.
3. The low, middle and the high channels are selected to perform tests respectively.
4. Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; search peak and mark it; finally record the peak and the plot.

3.2.3 Test Result

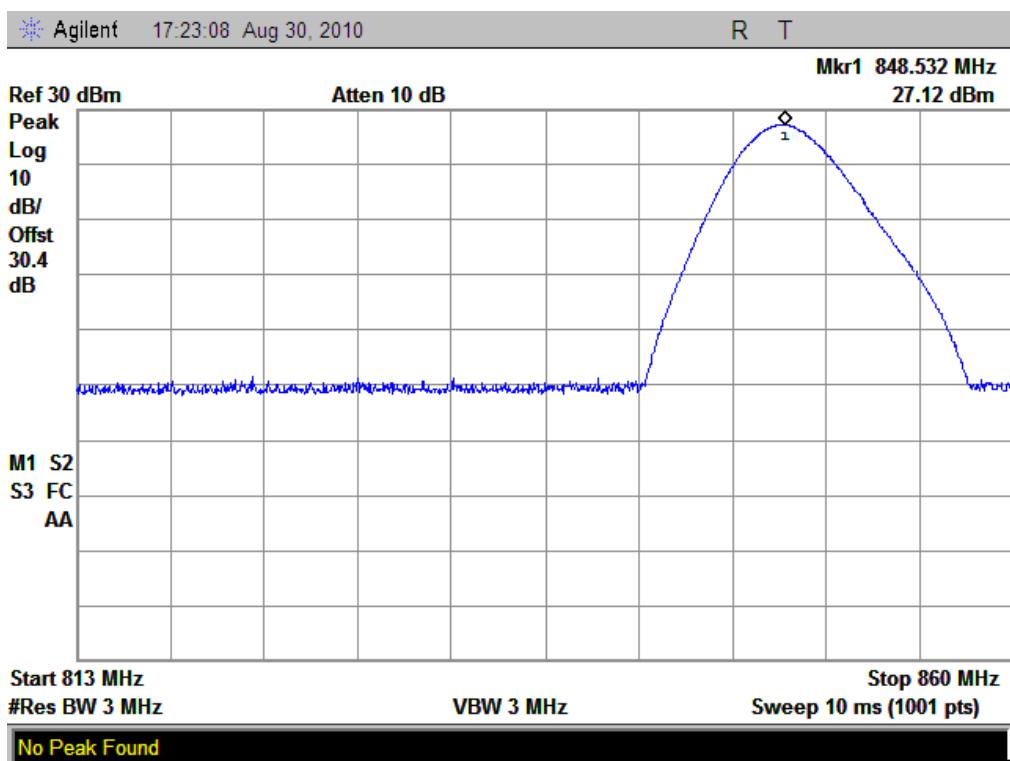
No.	Channel Number	Frequency (MHz)	Measured Power		Rated Power	
			dBm	W	dBm	W
CDMA 800MHz	1013	824.7	27.65	0.58	38.5	7
	384	836.52	27.27	0.53		
	777	848.31	27.12	0.52		
CDMA 1900MHz	25	1851.25	25.63	0.37	33	2
	600	1880.0	26.92	0.49		
	1175	1908.75	26	0.40		



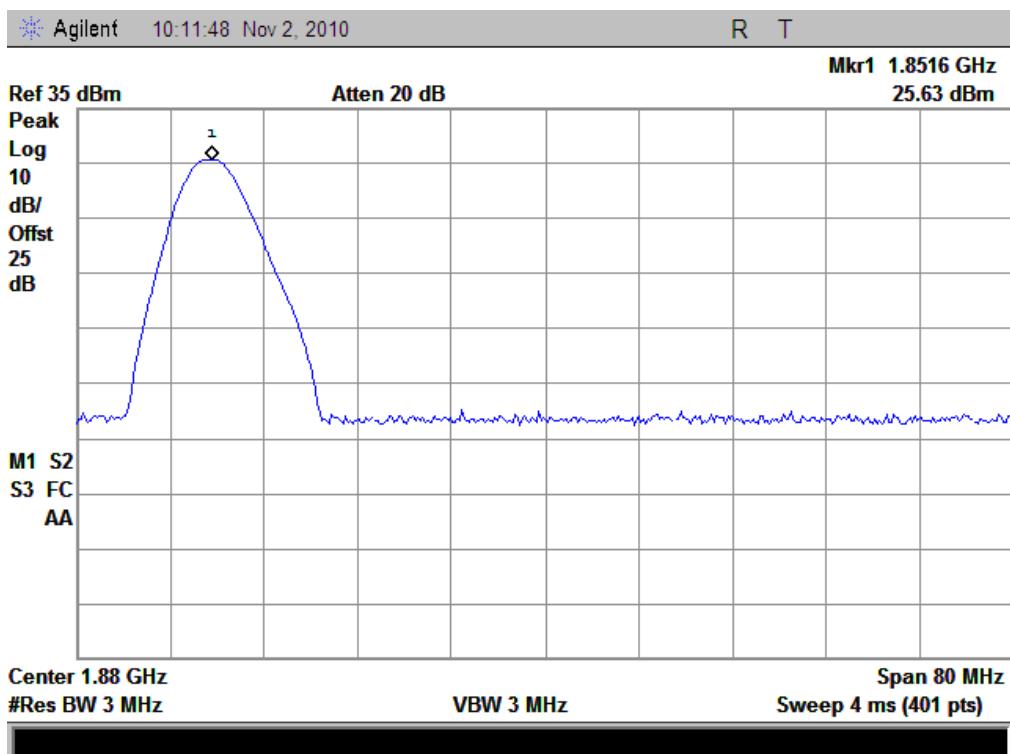
(Plot A: CDMA 800MHz Channel = 1013)



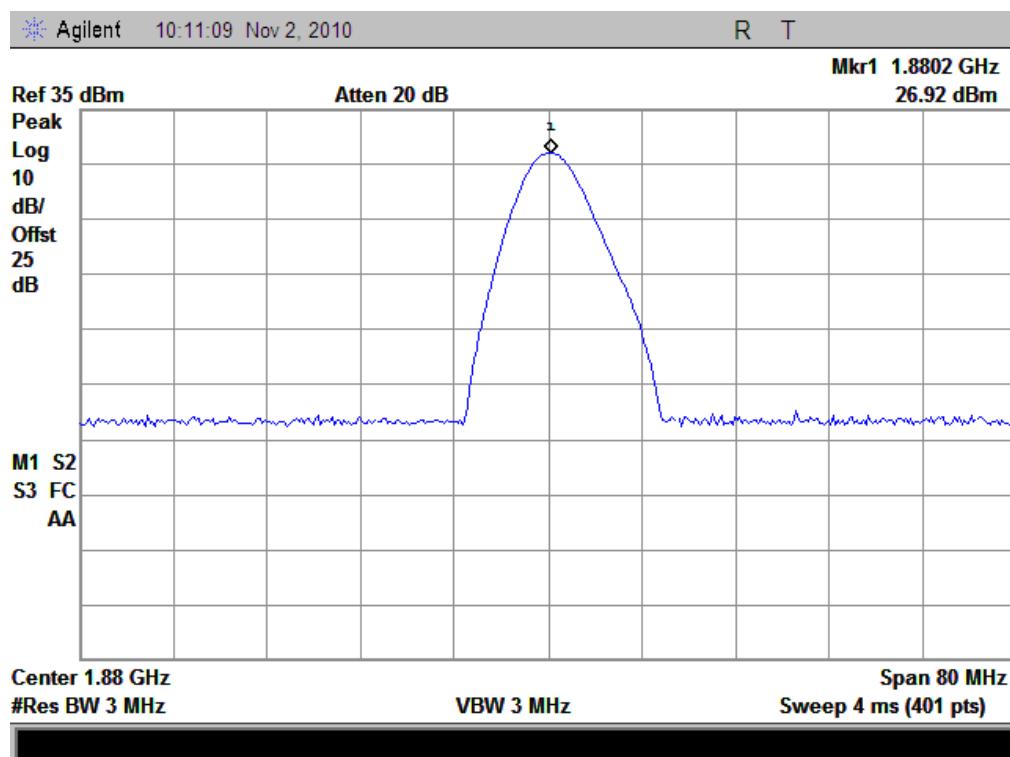
(Plot B: CDMA 800MHz Channel = 384)



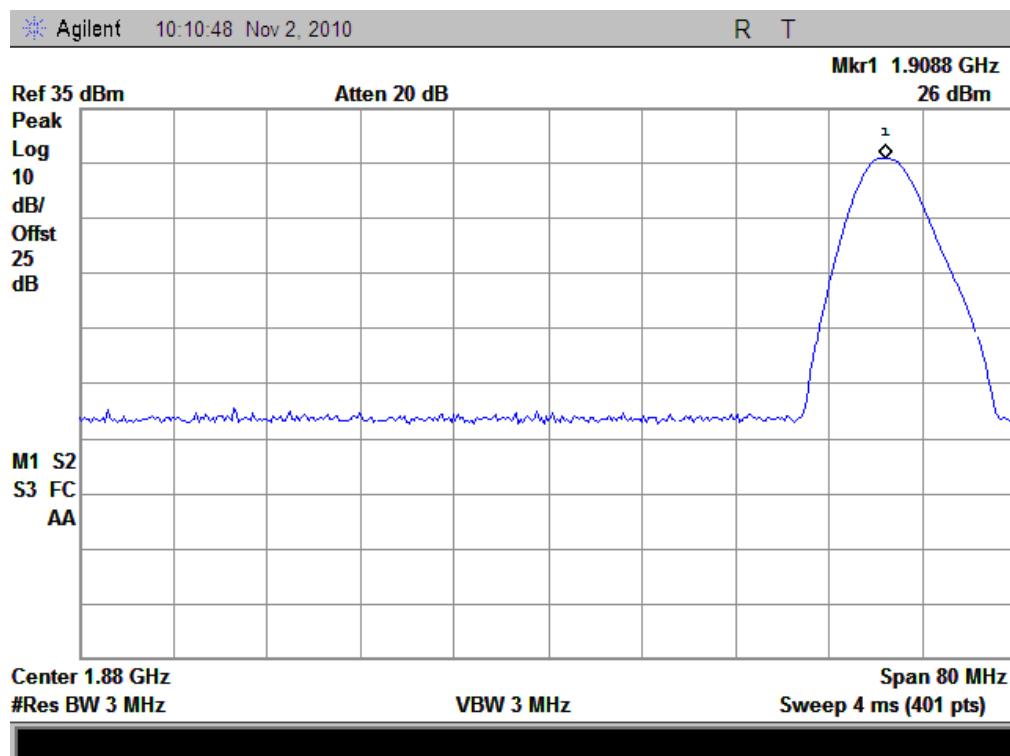
(Plot C: CDMA 800MHz Channel = 777)



(Plot D: CDMA 1900MHz Channel = 25)



(Plot D: CDMA 1900MHz Channel = 600)



(Plot D: CDMA 1900MHz Channel = 1175)

3.3 Occupied Bandwidth

3.3.1 Occupied Bandwidth Definition

According to FCC §2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

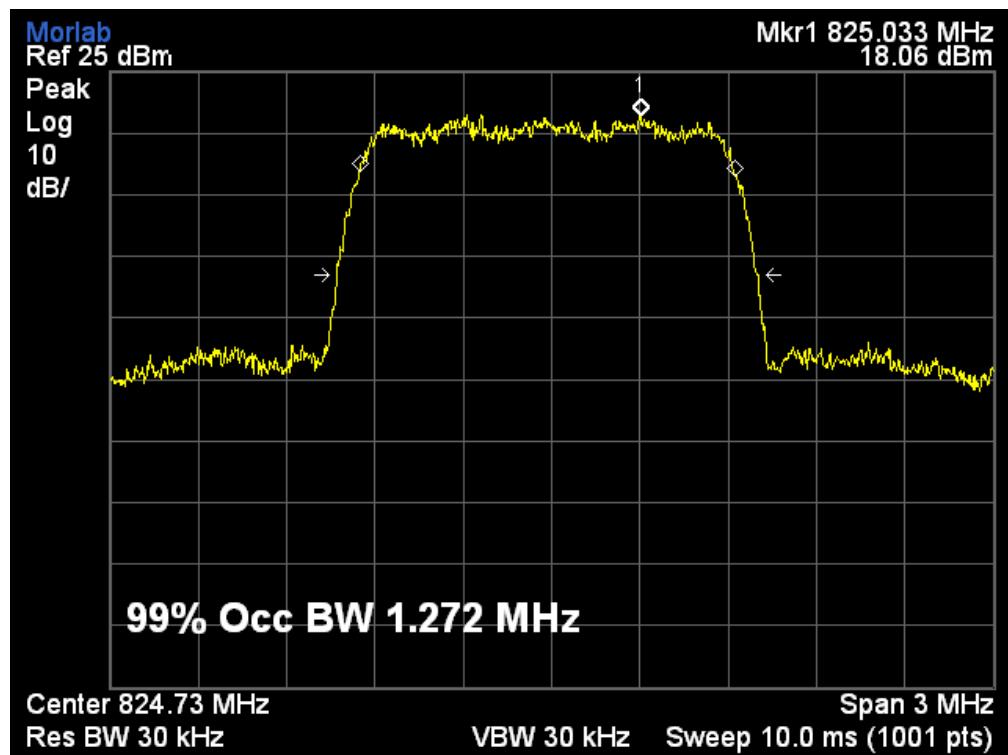
Occupied bandwidth is also known as the 99% emission bandwidth. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power.

3.3.2 Test Procedure

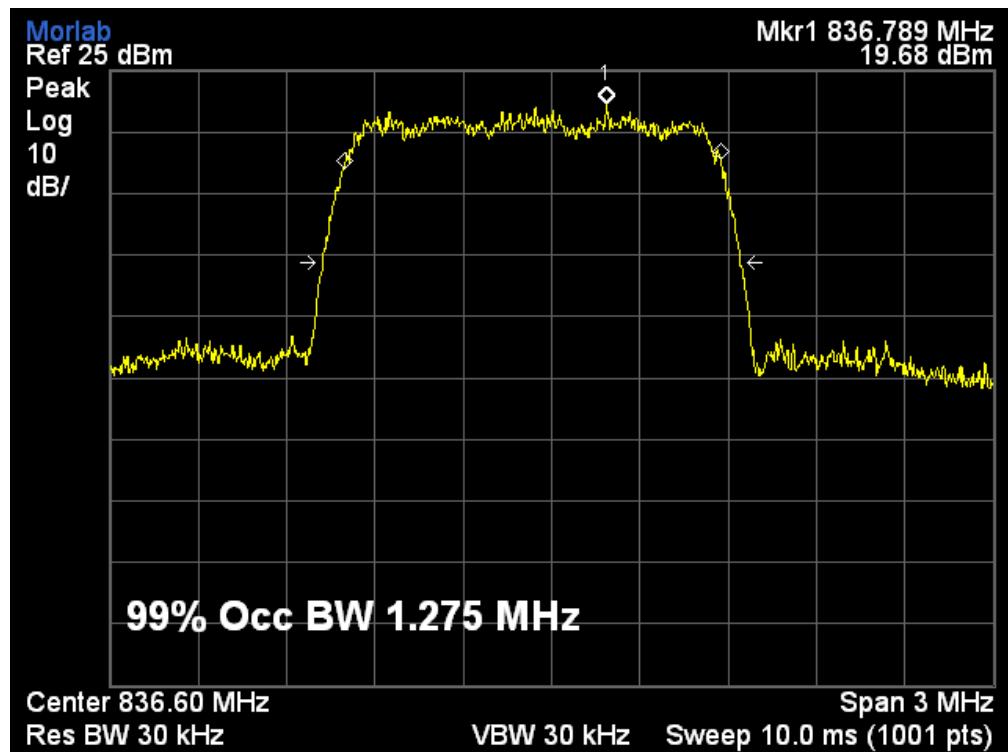
1. Perform test system setup as section 3.1.1.
2. The resolution bandwidth of the Spectrum Analyzer is set to at least one percent of the emission bandwidth, e.g. for GSM modulated signal (here used): $RBW=VBW=3\text{kHz}$, for CDMA modulated signal: $RBW=VBW=30\text{kHz}$.
3. The low, middle and the high channels are selected to perform tests respectively.
4. Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; search peak; make a line whose value is 20dB lower than the peak; mark two points which the line intersected the waveform at; finally record the delta of the two points as the occupied bandwidth and the plot.

3.3.3 Test Result

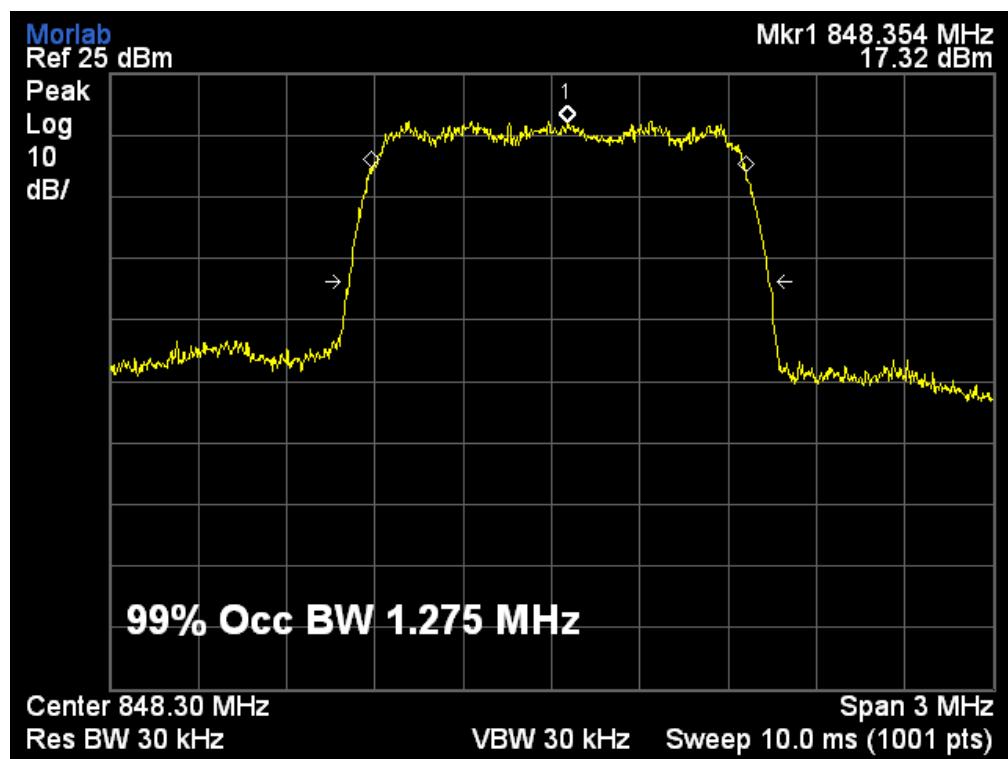
Band	Channel	Frequency (MHz)	Measured 20dB Occupied Bandwidth (MHz)	Refer to Plot
CDMA 800MHz	1013	824.7	1.272	Plot A
	384	836.52	1.275	Plot B
	777	848.31	1.275	Plot C
CDMA 1900MHz	25	1851.25	1.297	Plot D
	600	1880.0	1.290	Plot E
	1175	1908.75	1.328	Plot F



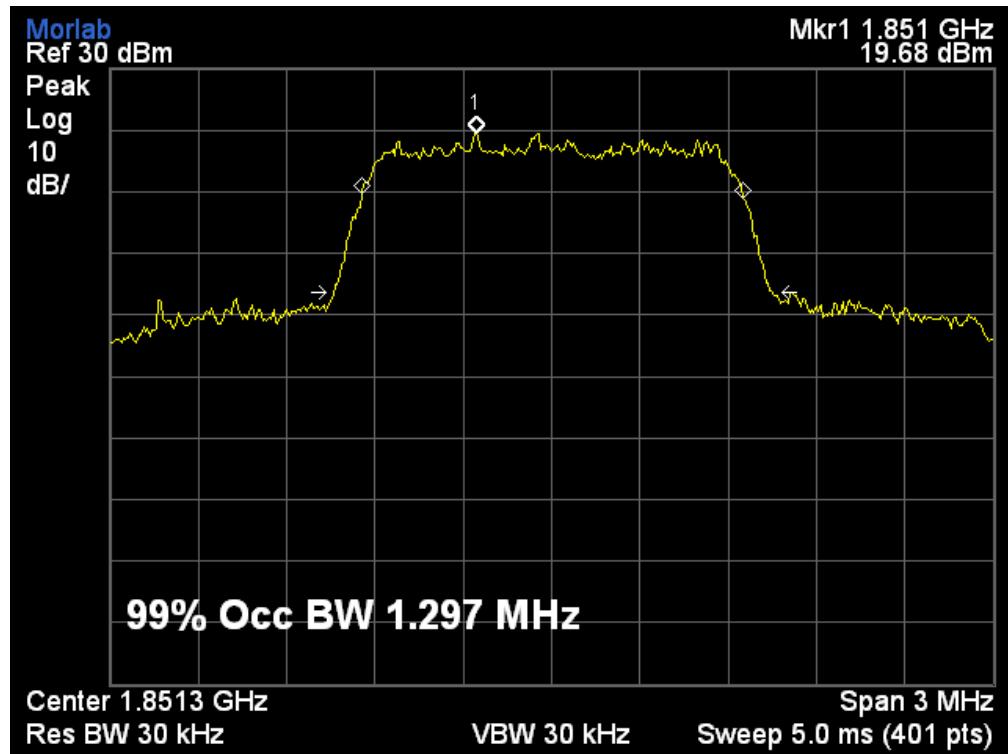
(Plot A: CDMA 800MHz Channel = 1013)



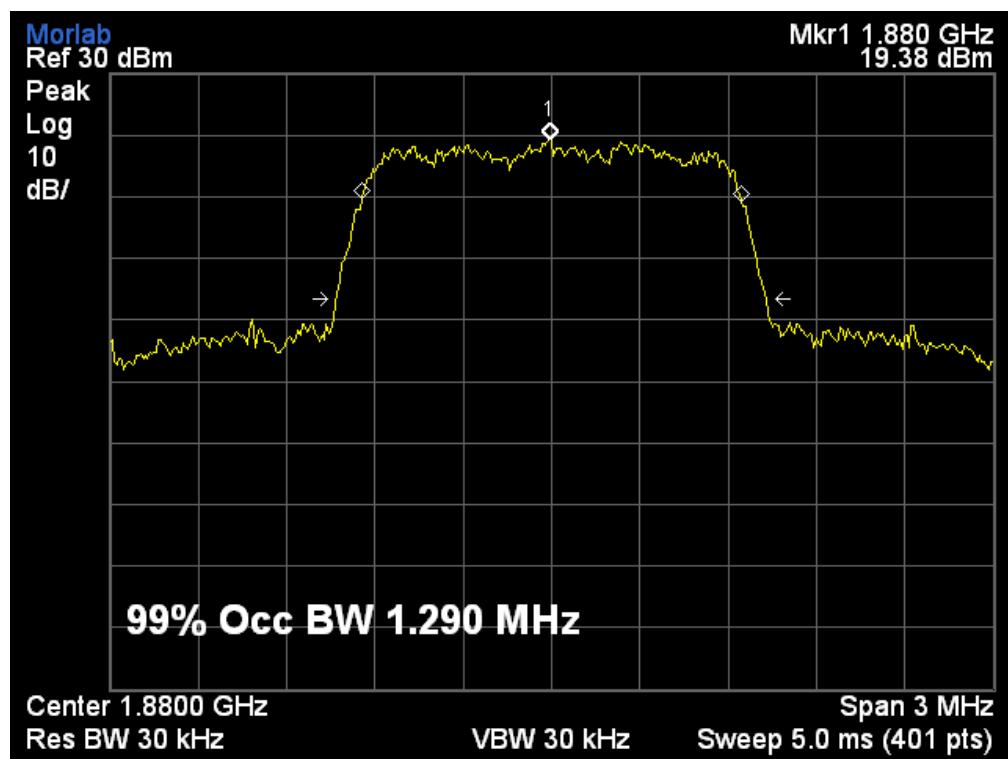
(Plot B: CDMA 800MHz Channel = 384)



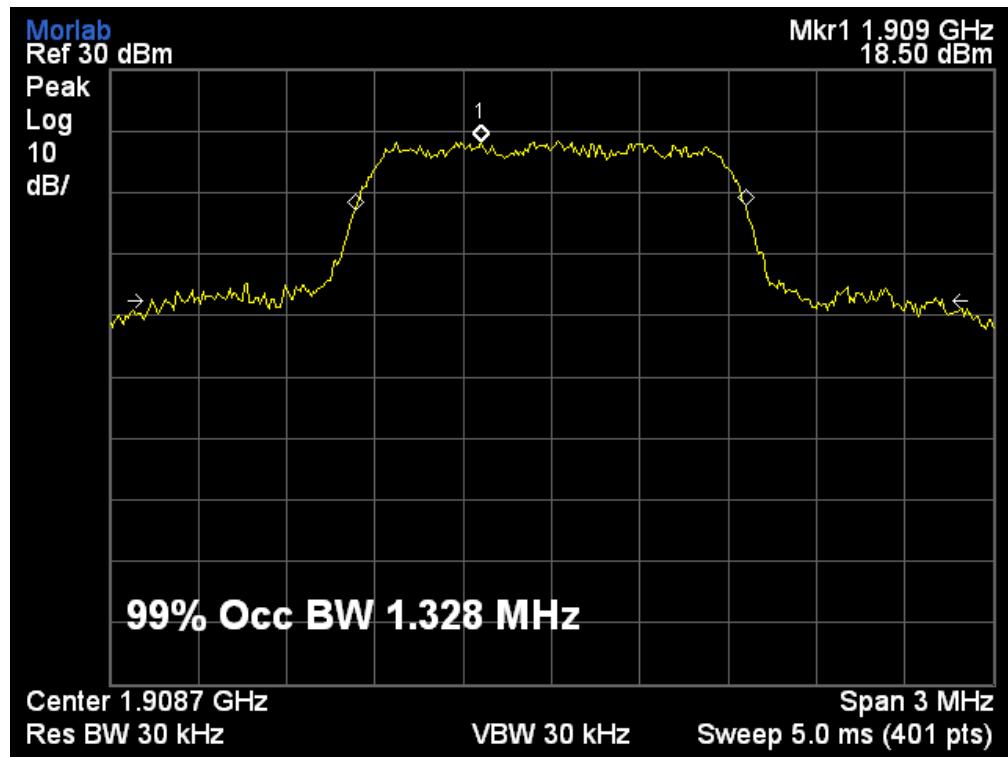
(Plot C: CDMA 800MHz Channel = 777)



(Plot D: CDMA 1900MHz Channel = 25)



(Plot E: CDMA 1900MHz Channel = 600)



(Plot F: CDMA 1900MHz Channel = 1175)

3.4 Conducted Spurious Emission

3.4.1 Requirement

According to FCC §22.917(a) and 24.238(a), 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. This calculated to be -13dBm.

3.4.2 Test Procedure

1. Perform test system setup as section 3.1.1.
2. Make a limit line whose value is -13dBm on the Spectrum Analyzer.
3. The lowest, middle and the highest channels are selected to perform tests respectively.
4. Set the RBW of the Spectrum Analyzer to 1MHz, and the measuring frequency range from 9kHz to 10th harmonic of the fundamental frequency (here used 10GHz); mark the fundamental frequency and the harmonics thereof; finally record the harmonics and the plot. Note: the measuring frequency range can be divided into several parts to perform tests.
5. In the 1MHz bands immediately outside and adjacent to the frequency block, the RBW of the Spectrum Analyzer was set to at least one percent of the emission bandwidth of the fundamental emission of the transmitter, e.g. for GSM modulated signal (here used): RBW=3kHz, for CDMA modulated signal: RBW=30kHz.

3.4.3 Test Result

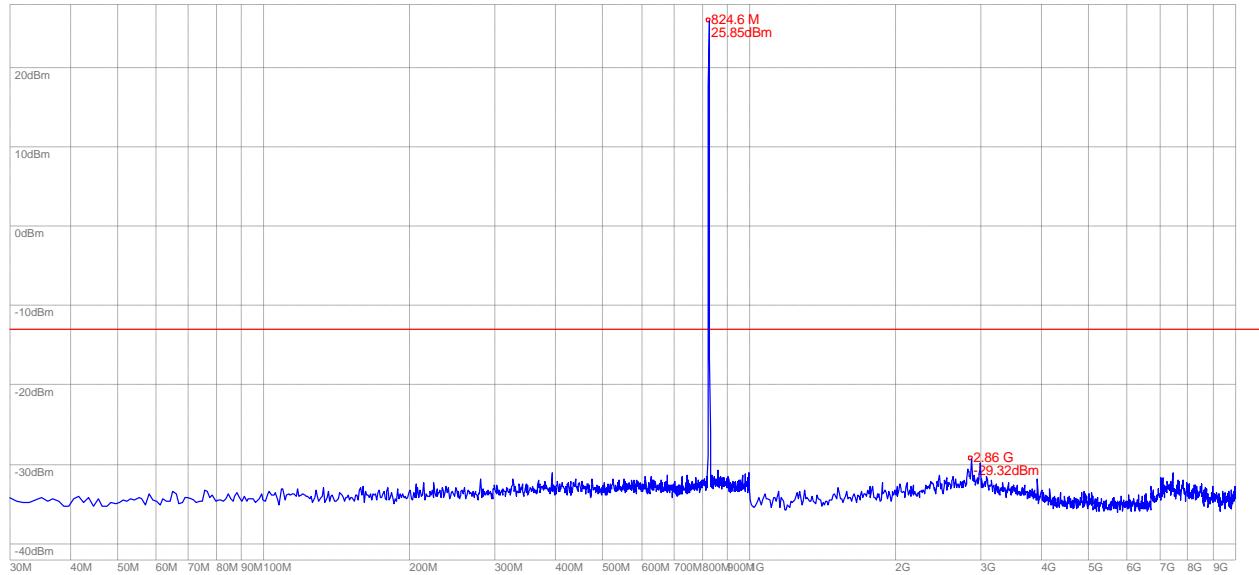
Table for the Harmonics and Plots for the Spurious Emission

1. Table for the Harmonics:

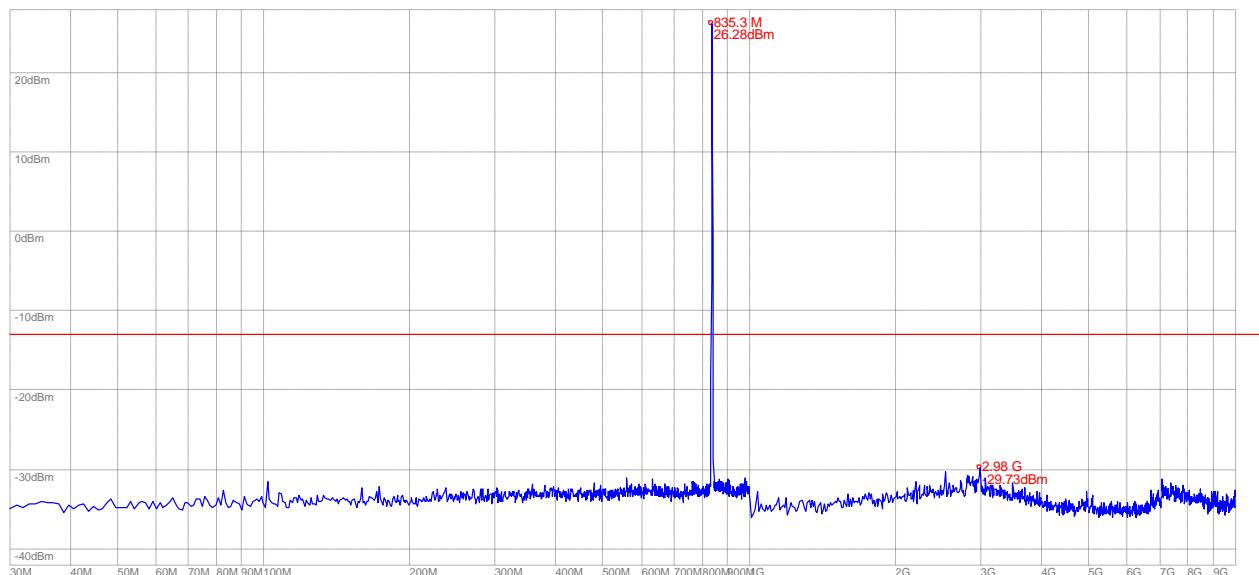
No.	Channel	Frequency(MHz)	Measured Max Spurious Emission(dBm)	Limit(dBm)
CDMA 800MHz	1013	824.7	-29.32	-13
	384	836.52	-29.73	-13
	777	848.31	-29.39	-13
CDMA 1900MHz	25	1851.25	<-30	-13
	600	1880.0	-36.34	-13
	1175	1908.75	-36.26	-13

2. Plot for Spurious Emission:

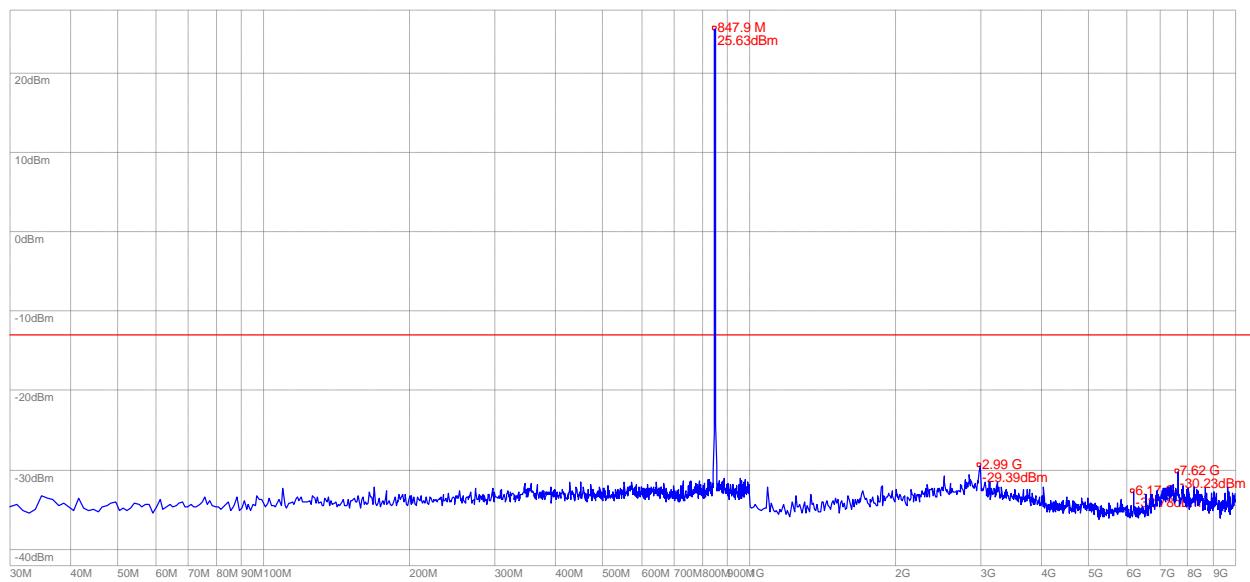
Note: the power of the EUT transmitting frequency should be ignored.



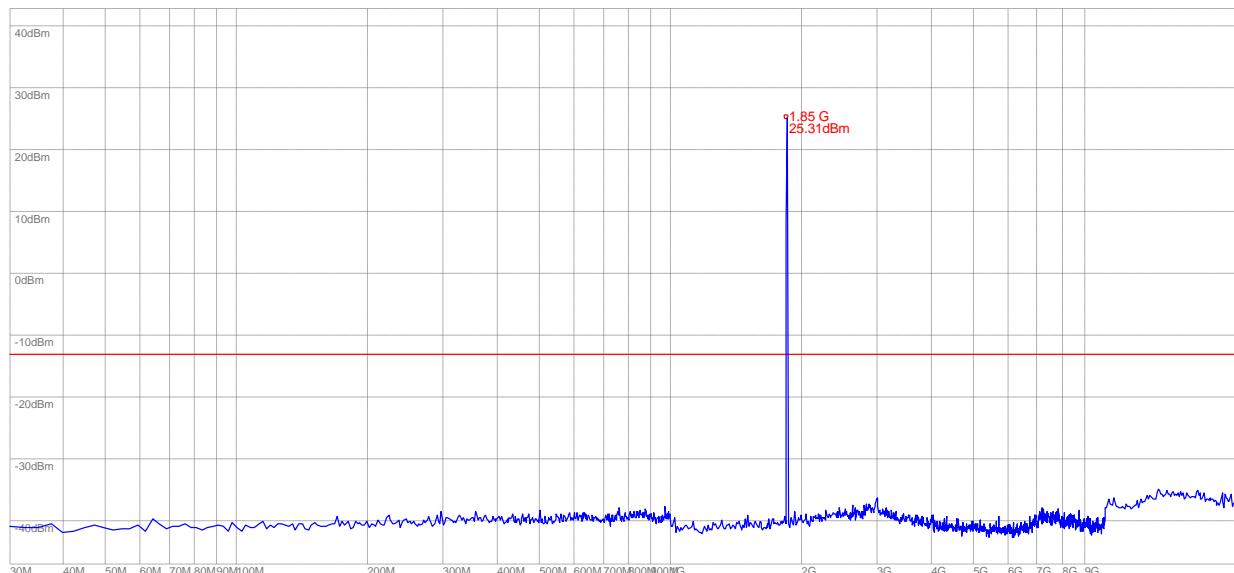
(Plot A: CDMA 800MHz Channel = 1013, 30MHz to 10GHz)



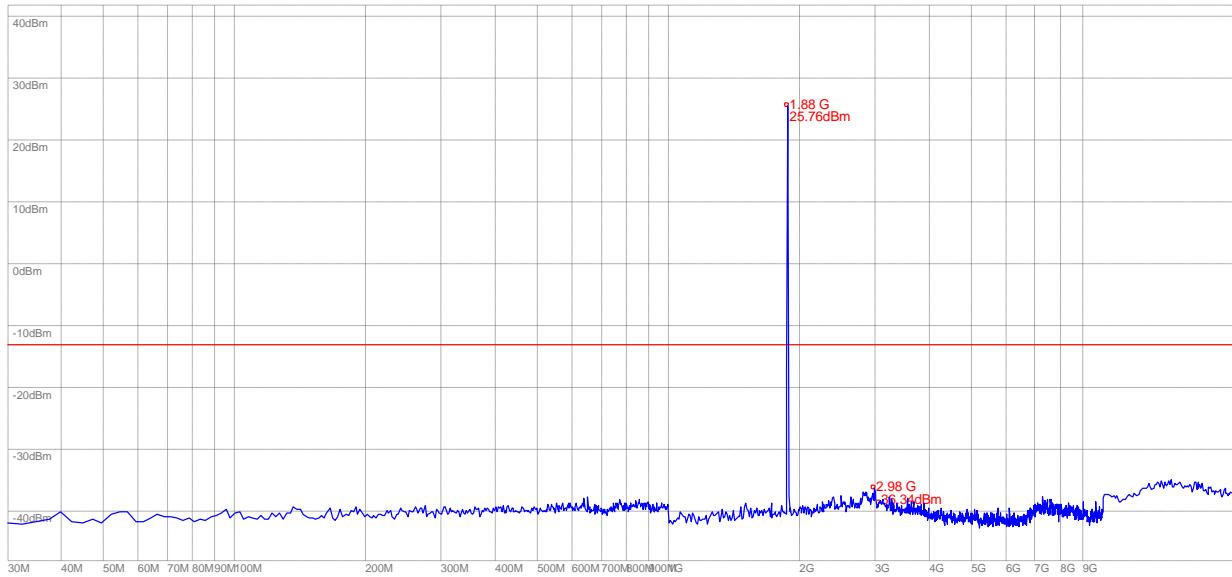
(Plot B: CDMA 800MHz Channel = 384, 30MHz to 10GHz)



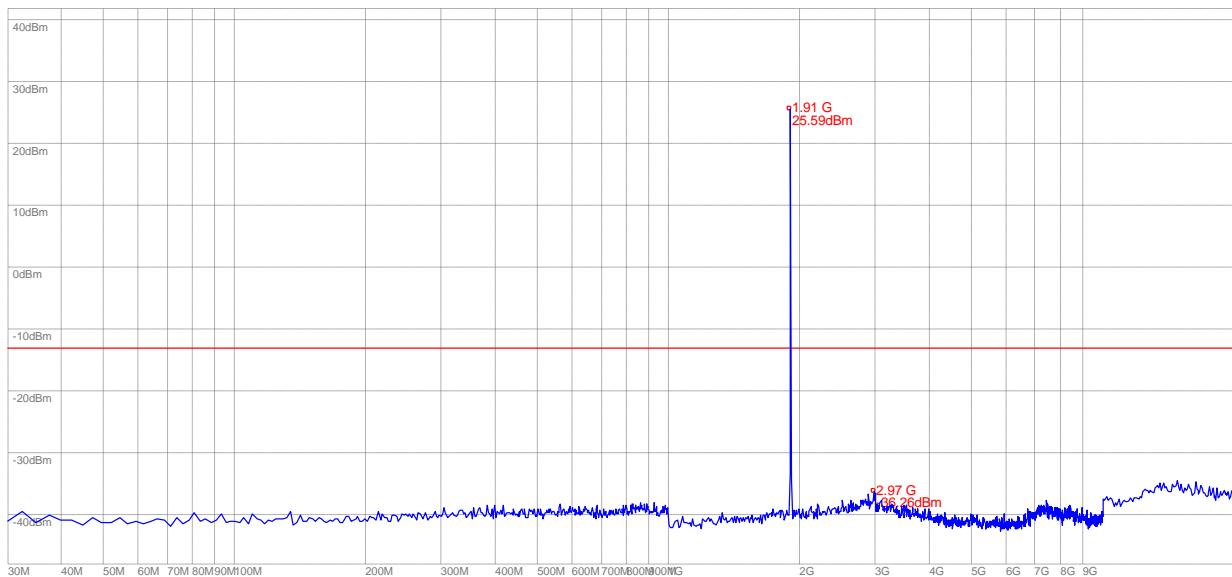
(Plot C: CDMA 800MHz Channel = 777, 30MHz to 10GHz)



(Plot D: CDMA 1900MHz Channel = 25, 30MHz to 20GHz)



(Plot E: CDMA 1900MHz Channel = 600, 30MHz to 20GHz)



(Plot F: CDMA 1900MHz Channel = 1175, 30MHz to 20GHz)

3.5 Band Edge

3.5.1 Requirement

According to FCC section 22.917(b) and FCC section 24.238(b), in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth (26dB emission bandwidth) of the fundamental emission of the transmitter may be employed.

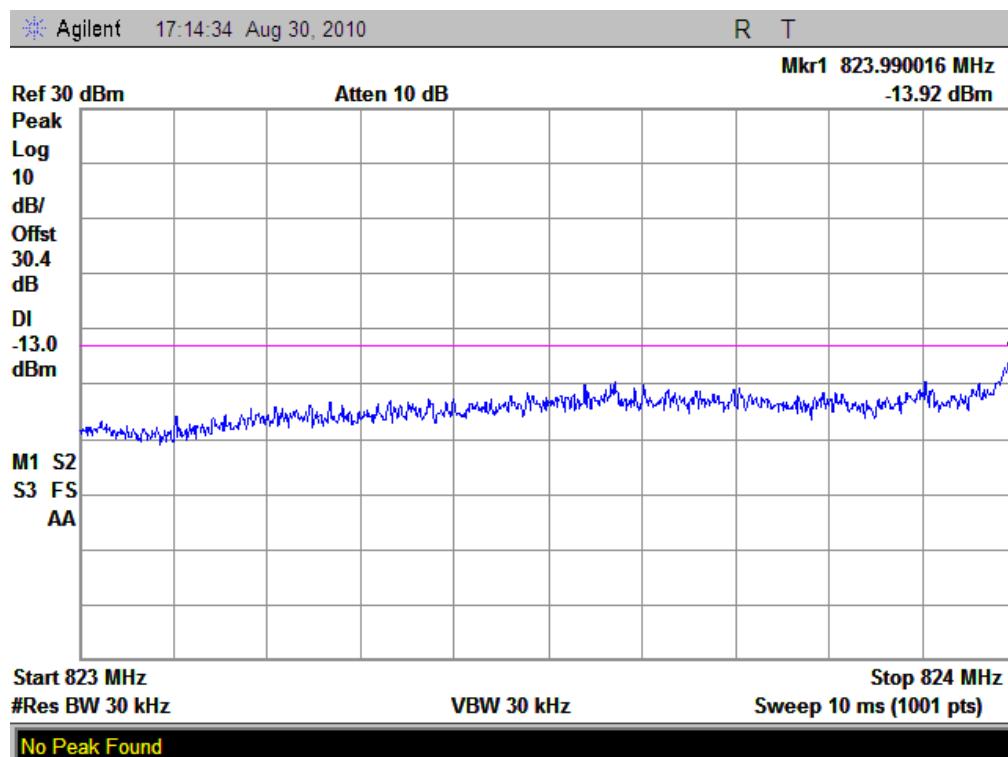
3.5.2 Test Result

The lowest and highest channels are tested to verify the band edge emissions.

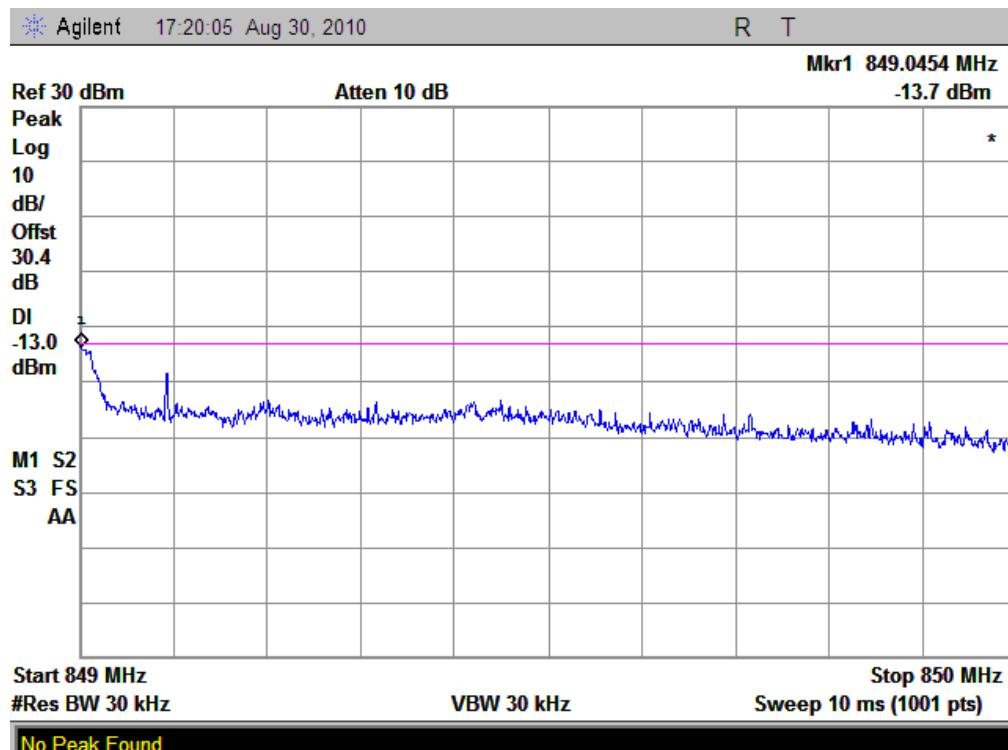
1. Test Verdict:

Band	Channe 1	Frequency (MHz)	Measured Max. Band Edge Emission (dBm)	Refer to Plot	Limit (dBm)	Verdict
CDMA 800MHz	1013	824.7	-13.92	Plot A	-13	PASS
	777	848.31	-13.7	Plot B		PASS
CDMA 1900MHz	25	1851.25	-14.85	Plot C	-13	PASS
	1175	1908.75	-14.05	Plot D		PASS

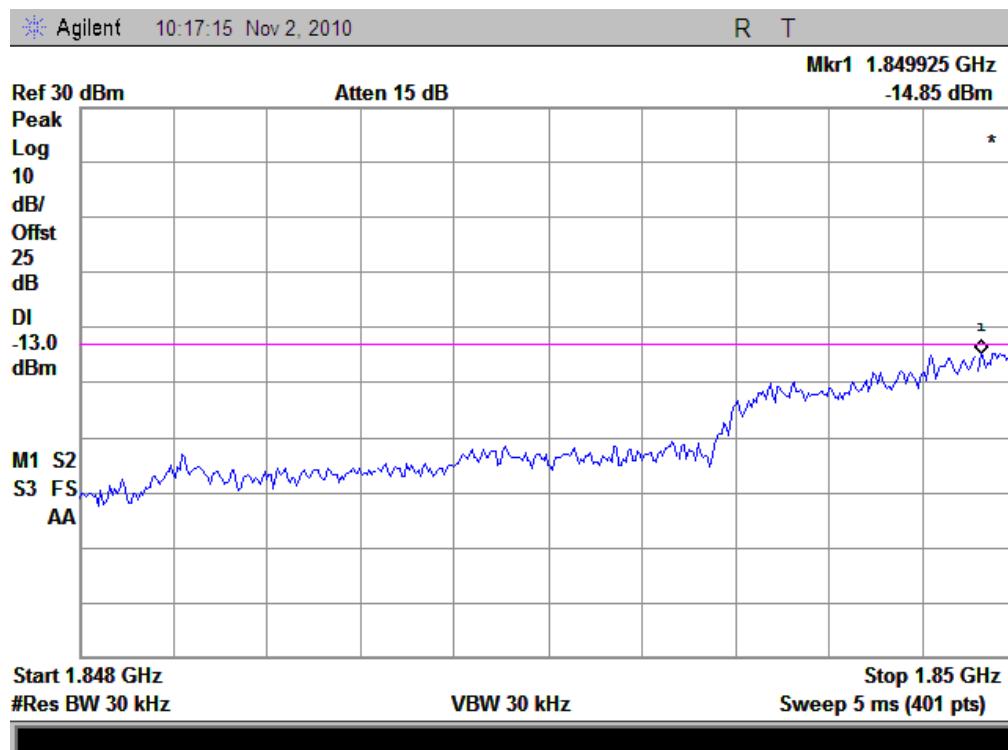
2. Plots



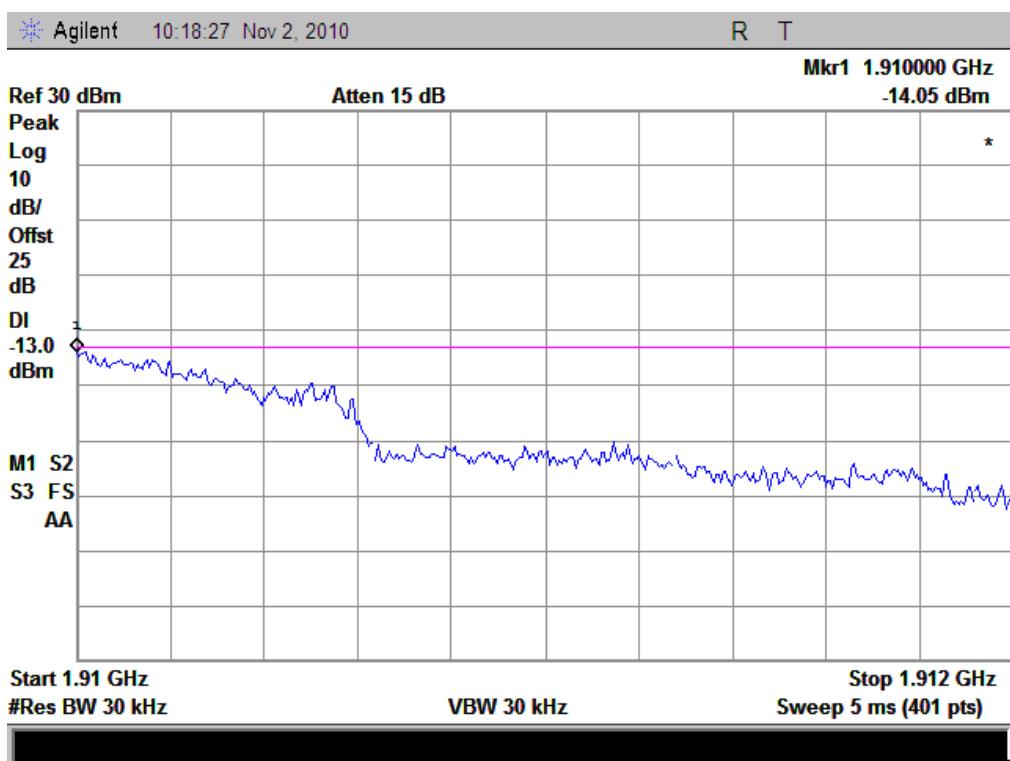
(Plot A: CDMA 800MHz Channel = 1013)



(Plot B: CDMA 800MHz Channel = 777)



(Plot C: CDMA 1900MHz Channel = 25)



(Plot D: CDMA 1900MHz Channel = 1175)

3.6 Transmitter Radiated Power (EIRP/ERP)

3.6.1 Requirement

According to FCC §22.913 and section 24.232, the ERP of Cellular mobile transmitters must not exceed 7 Watts and 2Watts.

3.6.2 Test Procedure

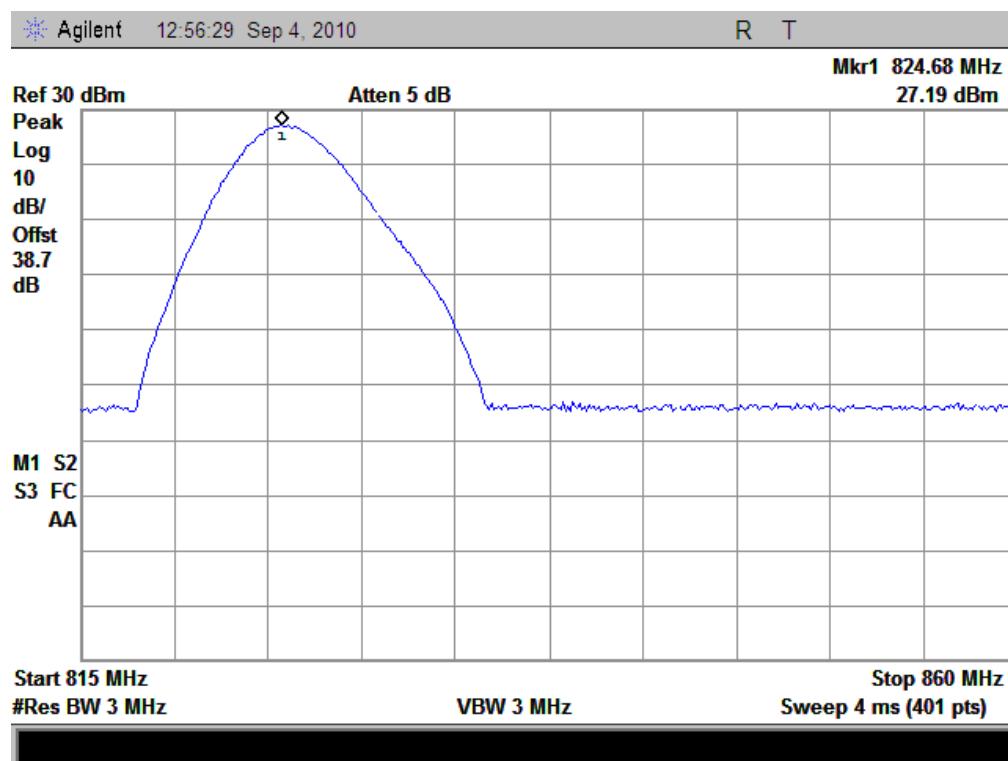
1. Perform test system setup as section 3.1.2.
2. The resolution bandwidth of the Spectrum Analyzer is set to be comparable to the emission bandwidth of the transmitter, e.g. for GSM modulated signal (here used): RBW=VBW=1MHz, for CDMA modulated signal: RBW=VBW=3MHz.
3. The low, middle and the high channels are selected to perform tests respectively.
4. Employ the bi-log Test Antenna as the test system receiving antenna; set the polarization of the Test Antenna to be the same as that of the EUT transmitting antenna.
5. Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; actuate the Turn Table to turn from 0 degrees to 360 degrees to find the maximum reading via the Spectrum Analyzer, mark the peak; finally record the peak and the plot.

3.6.3 Test Result

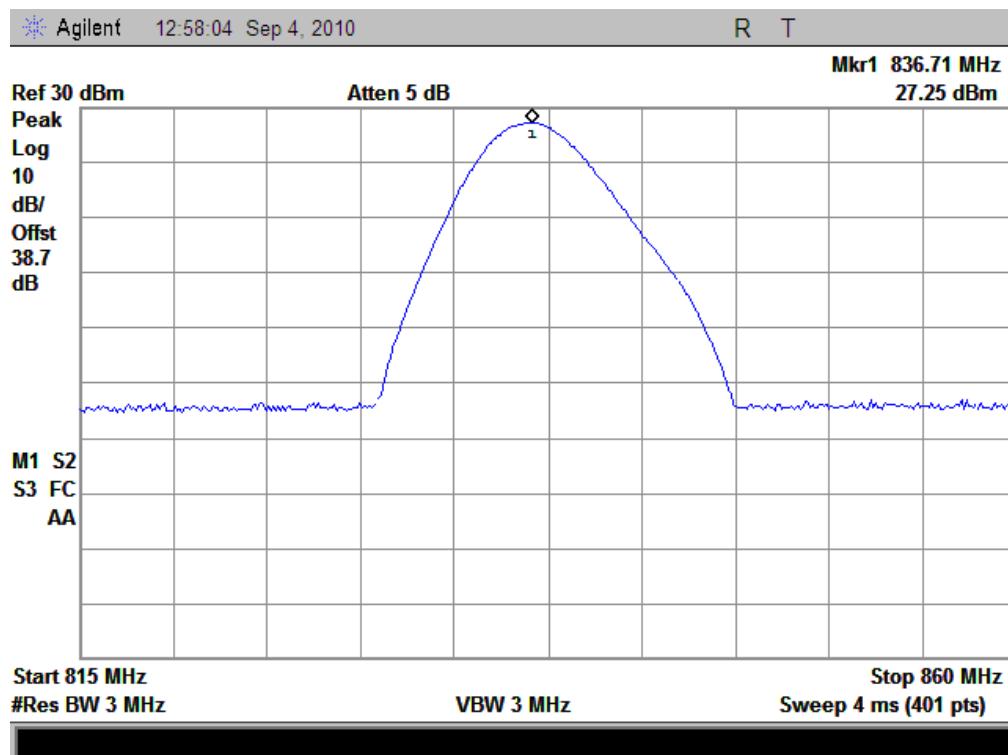
1. Test Verdict:

No.	Channel	Frequency (MHz)	Measured ERP/EIRP		Limit ERP/EIRP	
			dBm	W	dBm	W
CDMA 800MH z	1013	824.7	27.19	0.52	38.5	7
	384	836.52	27.25	0.53		
	777	848.31	27.21	0.53		
CDMA 1900M Hz	25	1851.25	25.68	0.37	33	2
	600	1880.0	27.02	0.50		
	1175	1908.75	23.31	0.21		

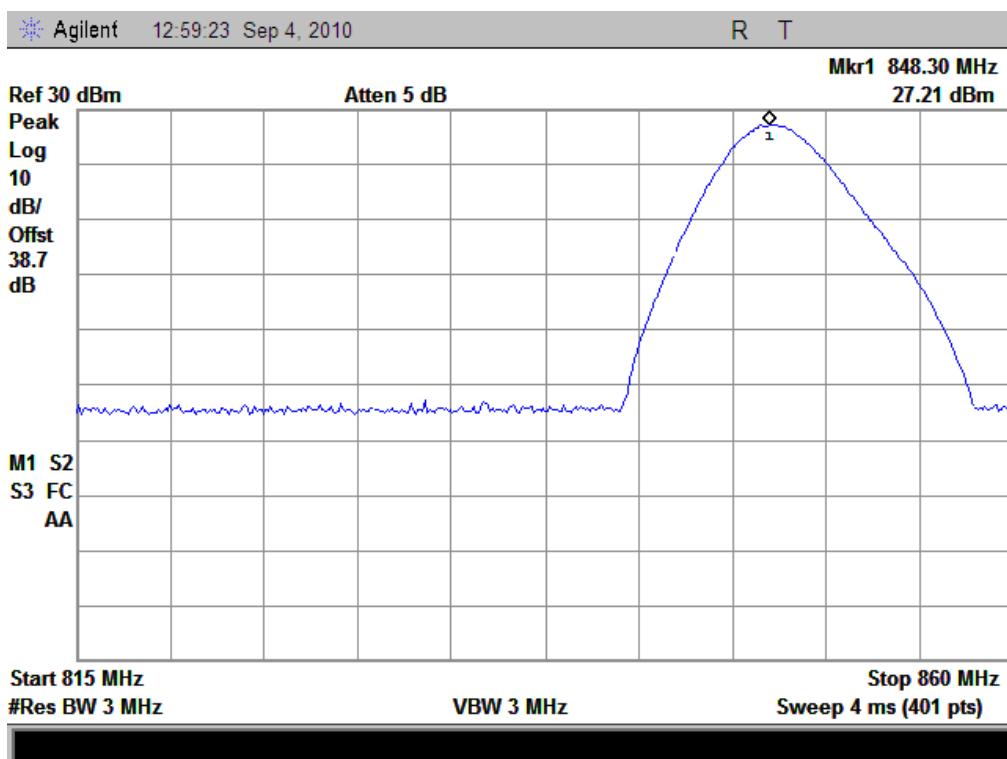
2. The plots:



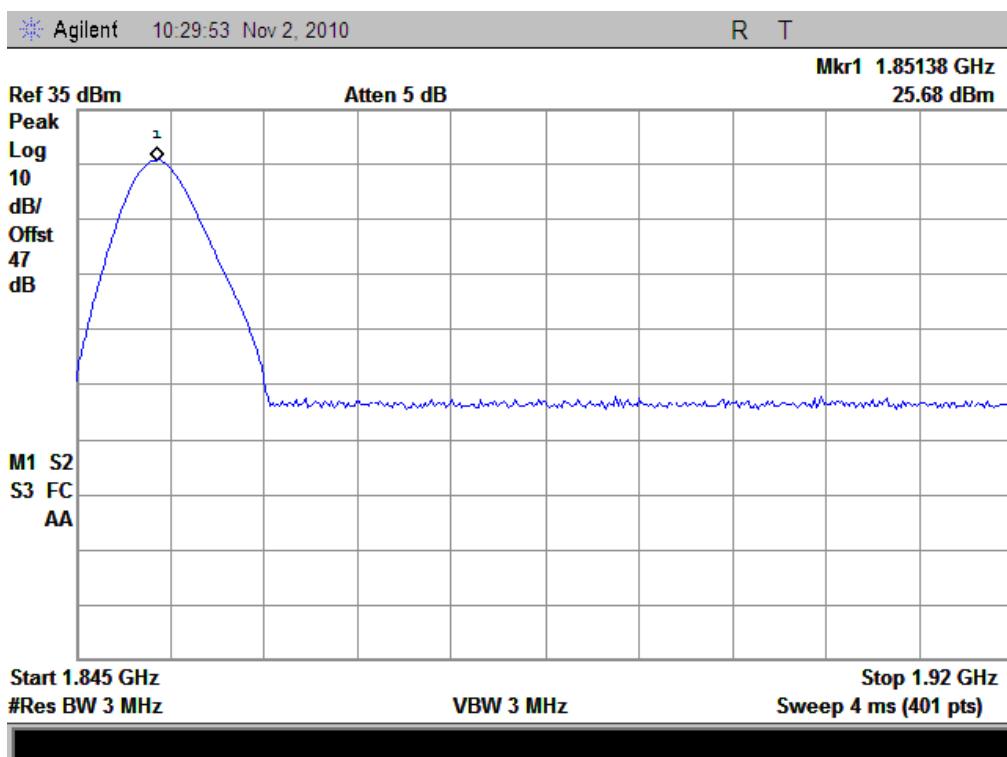
(Plot A: CDMA 800MHz Channel = 1013)



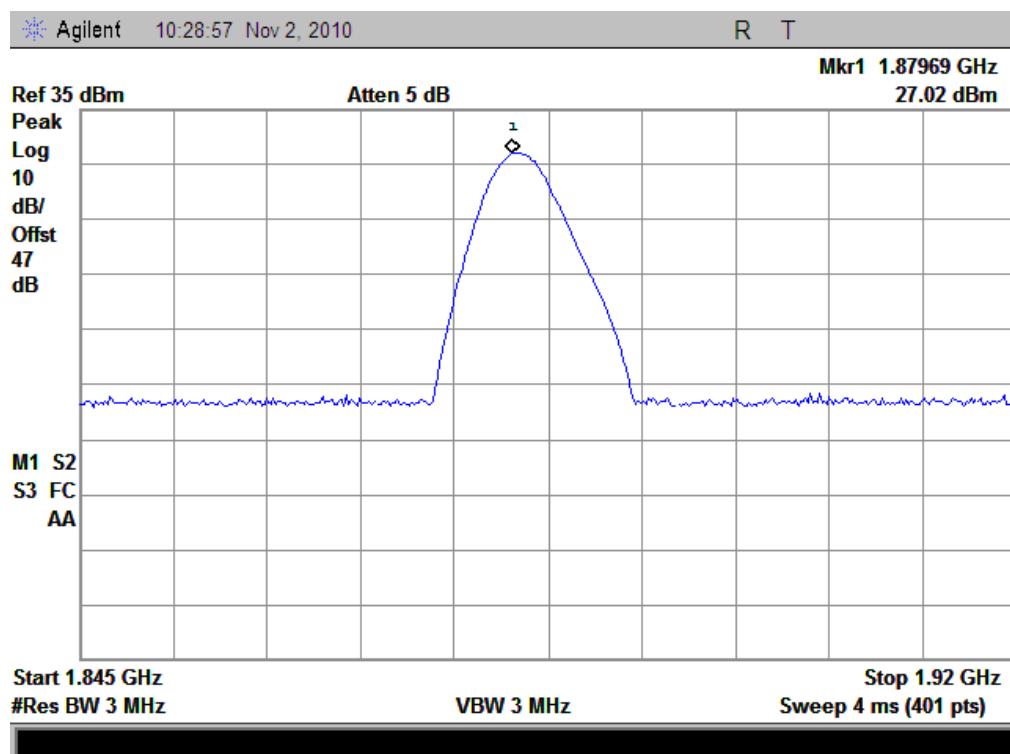
(Plot B: CDMA 800MHz Channel = 384)



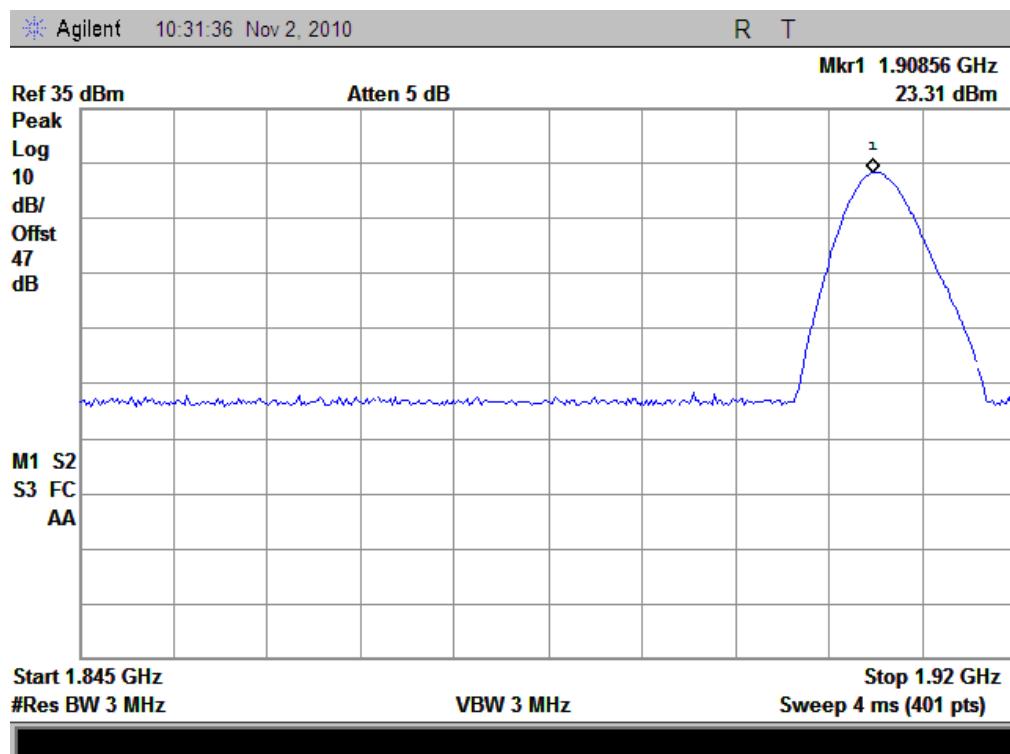
(Plot C: CDMA 800MHz Channel = 777)



(Plot D: CDMA 1900MHz Channel = 25)



(Plot E: CDMA 1900MHz Channel = 600)



(Plot F: CDMA 1900MHz Channel = 1175)

3.7 Radiated Spurious Emission

3.7.1 Requirement

According to FCC §22.917(a), 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. This calculated to be -13dBm.

3.7.2 Test Procedure

1. Perform test system setup as section 3.1.2.
2. Make a limit line whose value is -13dBm on the Spectrum Analyzer, and set the RBW of the Spectrum Analyzer to 1MHz.
3. The low, middle and the high channels are selected to perform tests respectively.
4. Employ the bi-log Test Antenna as the test system receiving antenna and set the frequency range of the Spectrum Analyzer from 30MHz to 3GHz.
5. The measurement is performed with the Test Antenna at both horizontal and vertical polarization respectively. Set the polarization of the Test Antenna to be horizontal.
6. Actuate the Turn Table to turn from 0 degrees to 360 degrees to find the maximum reading via the Spectrum Analyzer, mark the fundamental frequency and the harmonics thereof, after then record the harmonics and the plot.
7. Set the polarization of the Test Antenna to be vertical, then repeat step 6.
8. Employ the horn Test Antenna as the test system receiving antenna and set the frequency range of the Spectrum Analyzer from 3GHz to 10th harmonic of the fundamental frequency (here used 10GHz for CDMA800MHz and 20GHz for CDMA1900MHz).

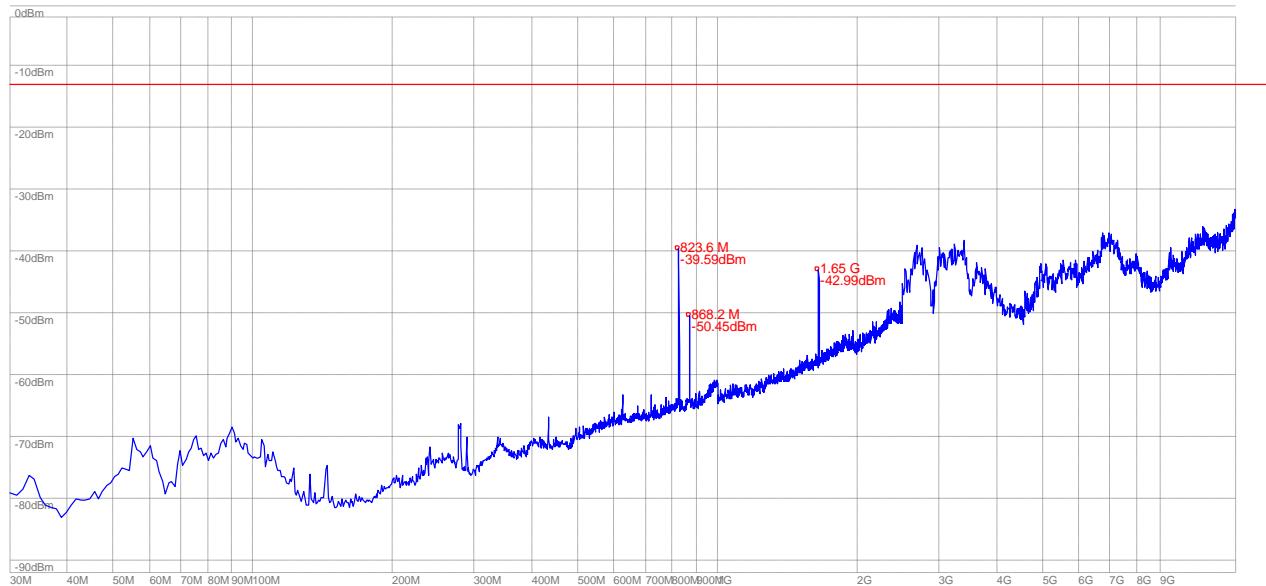
3.7.3 Test Result

1. Test Verdict:

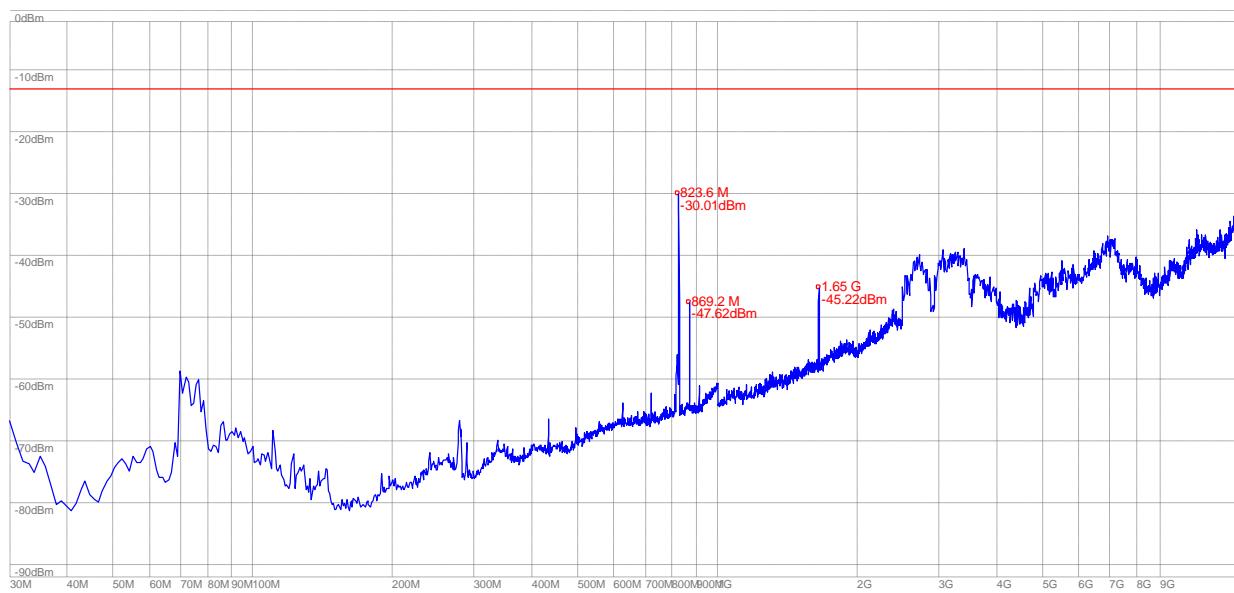
Band	Channel	Frequency (MHz)	Measured Max. Spurious Emission (dBm)		Refer to Plot	Limit (dBm)	Verdict
			Test Antenna Horizontal	Test Antenna Vertical			
CDMA 800MHz	1013	824.7	-42.99	-45.22	Plot A.1/A.2	-13	PASS
	384	836.52	-39.08	-39.54	Plot B.1/B.2		PASS
	777	848.31	-39.95	-39.34	Plot C.1/C.2		PASS
CDMA 1900MHz	25	1851.25	-55.39	-26.40	Plot D.1/D.2	-13	PASS
	600	1880.0	-57.93	<-25	Plot E.1/E.2		PASS
	1175	1908.75	-58.77	<25	Plot F.1/F.2		PASS

2. Test Plot for the Whole Measurement Frequency Range:

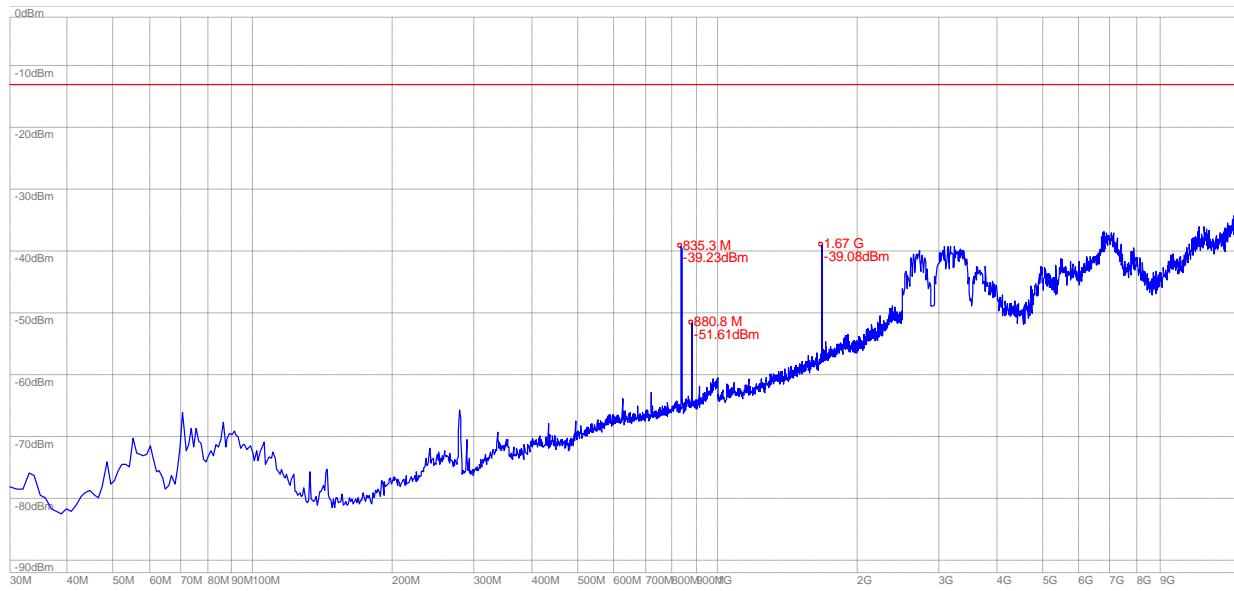
Note: the power of the EUT transmitting frequency should be ignored.



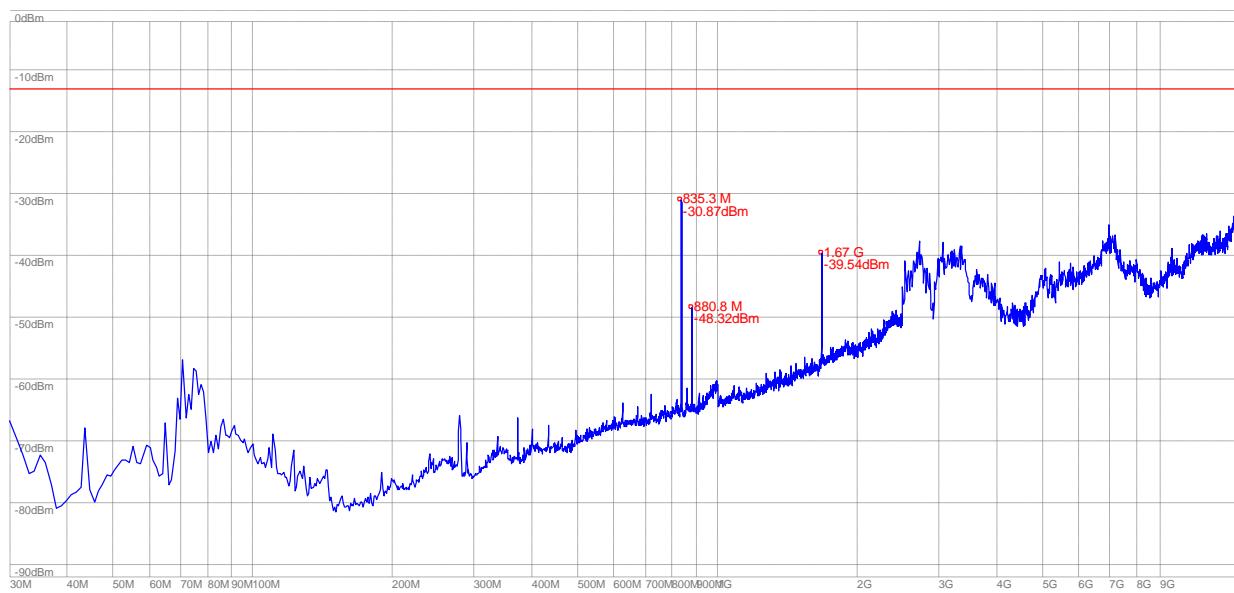
(Plot A.1: Plot when the TCH number set to 1013, Test Antenna Horizontal)



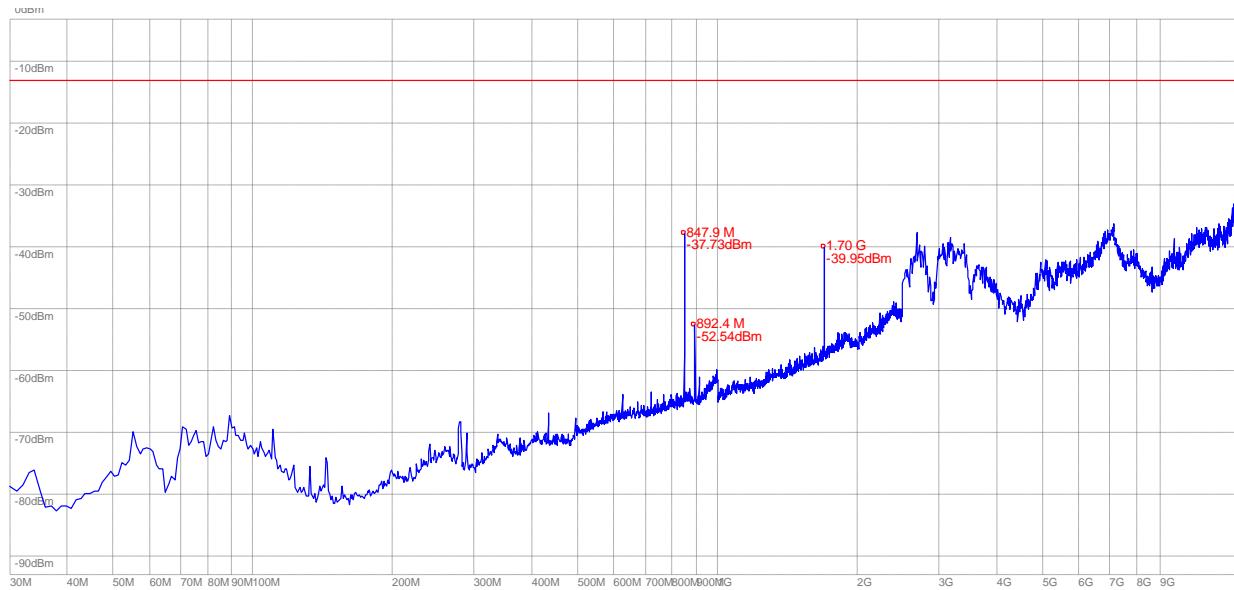
(Plot A.2: Plot when the TCH number set to 1013, Test Antenna Vertical)



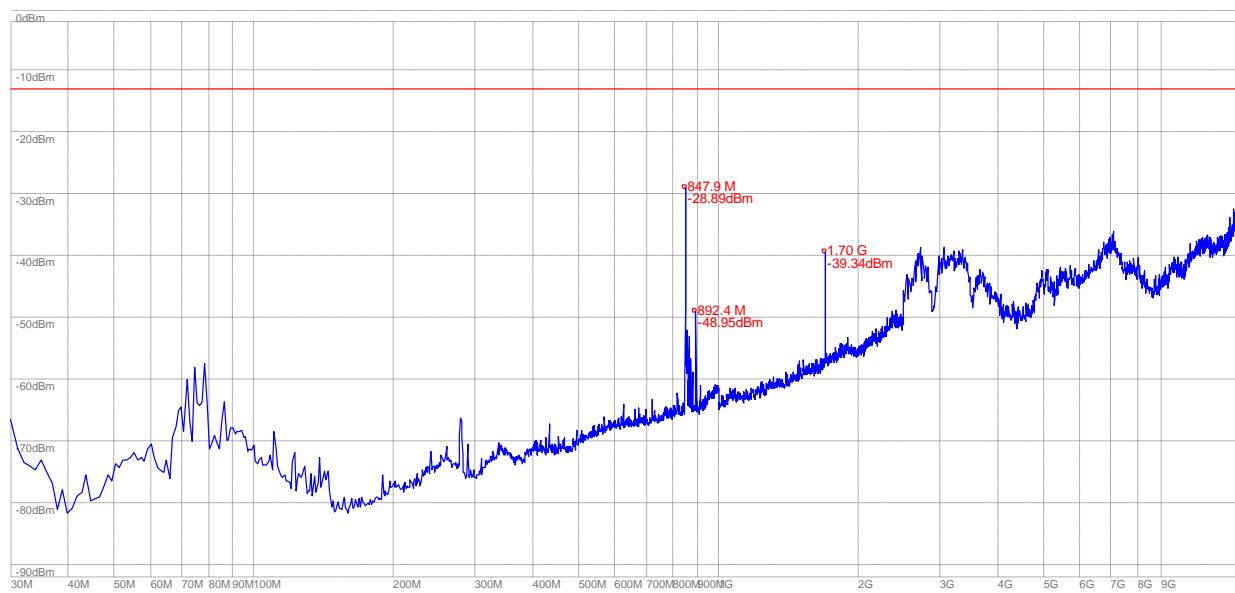
(Plot B.1: Plot when the TCH number set to 384, Test Antenna Horizontal)



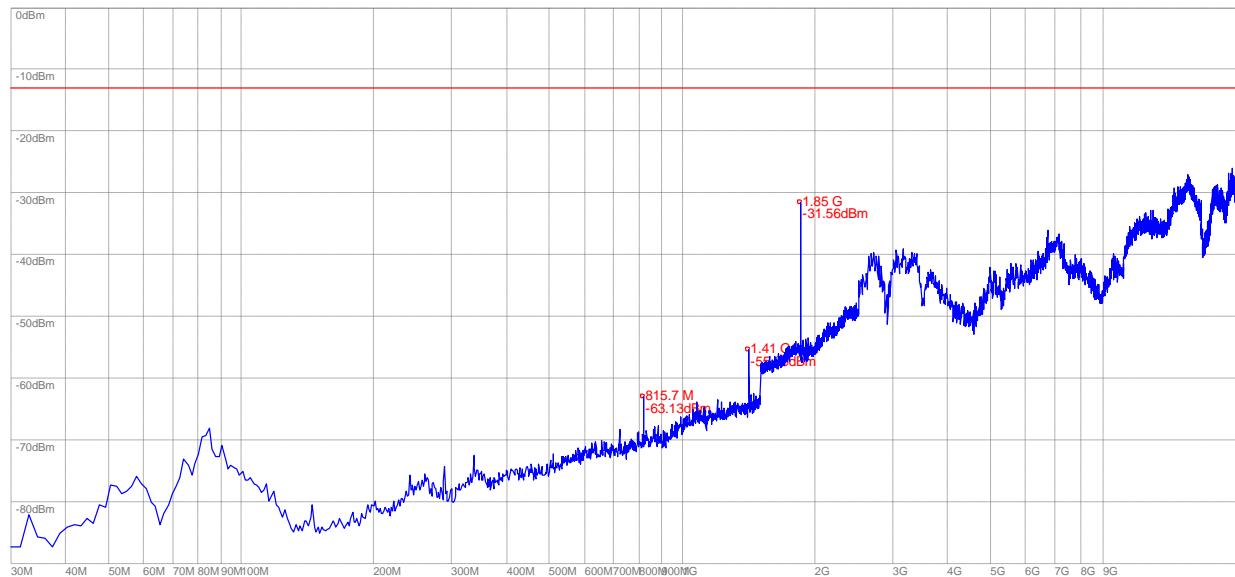
(Plot B.2: Plot when the TCH number set to 384, Test Antenna Vertical)



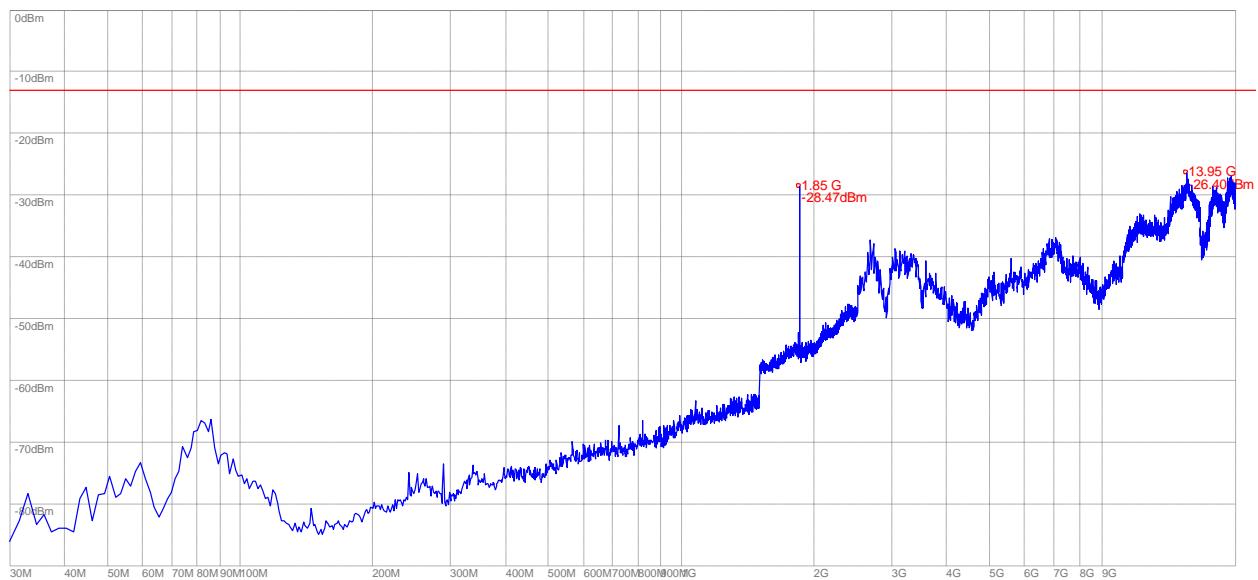
(Plot C.1: Plot when the TCH number set to 777, Test Antenna Horizontal)



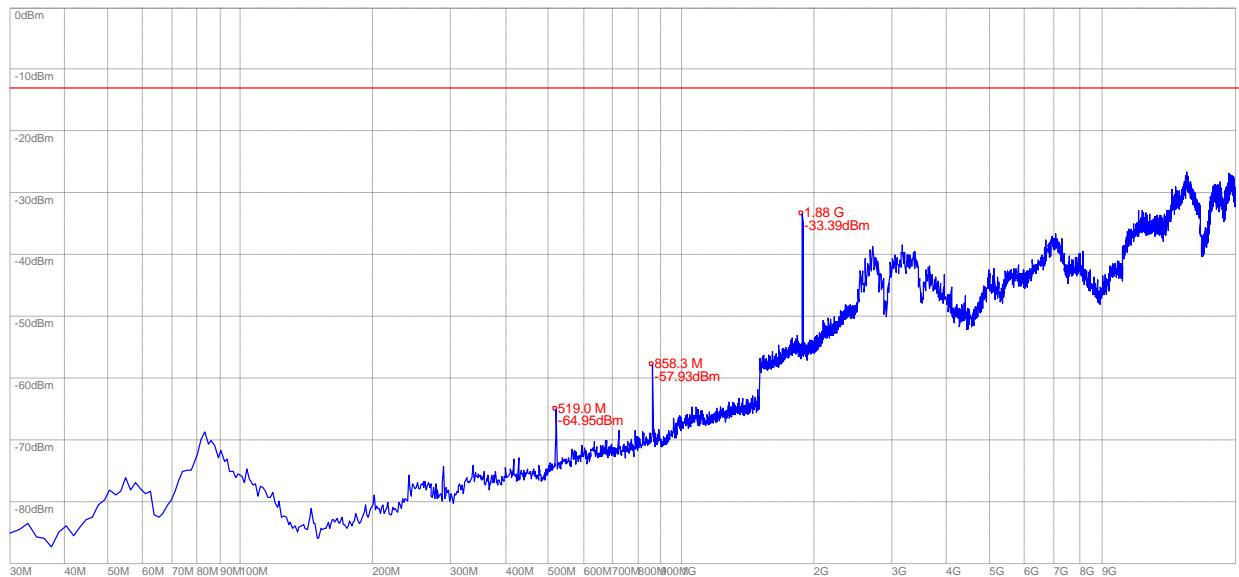
(Plot C2: Plot when the TCH number set to 777, Test Antenna Vertical)



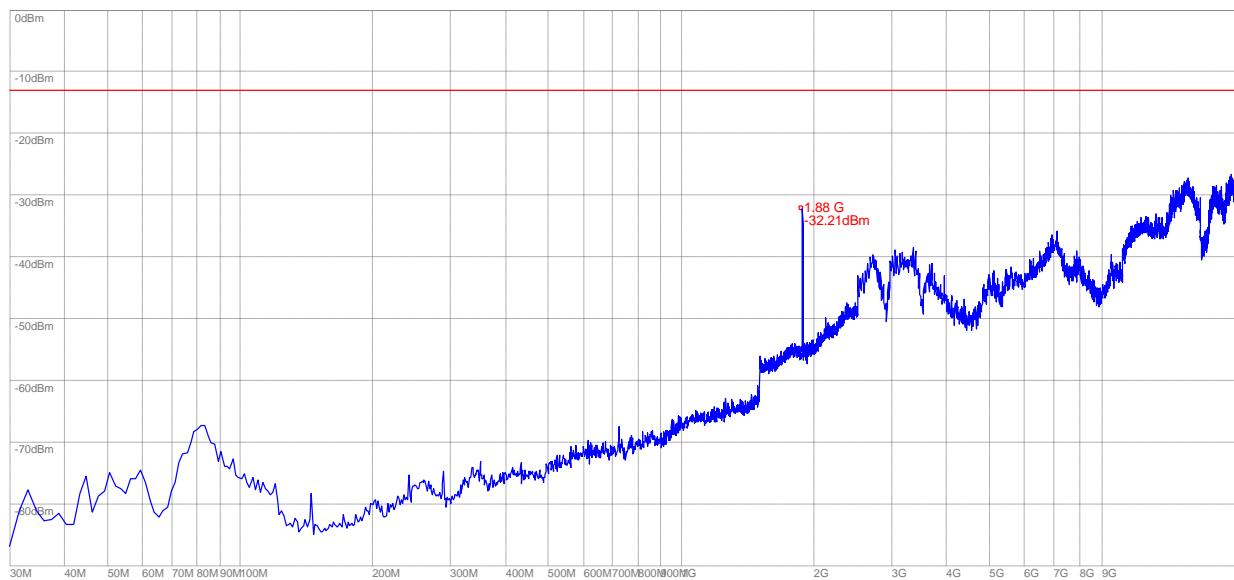
(Plot D.1: CDMA 1900MHz Channel = 25, Test Antenna Horizontal)



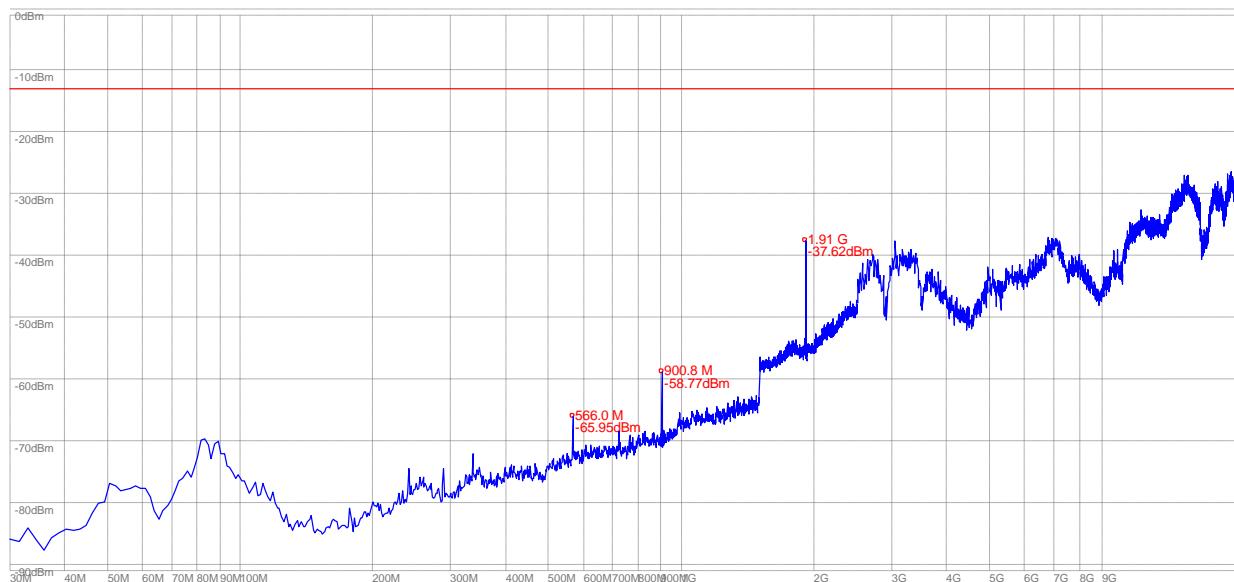
(Plot D.2: CDMA 1900MHz Channel = 25, Test Antenna Vertical)



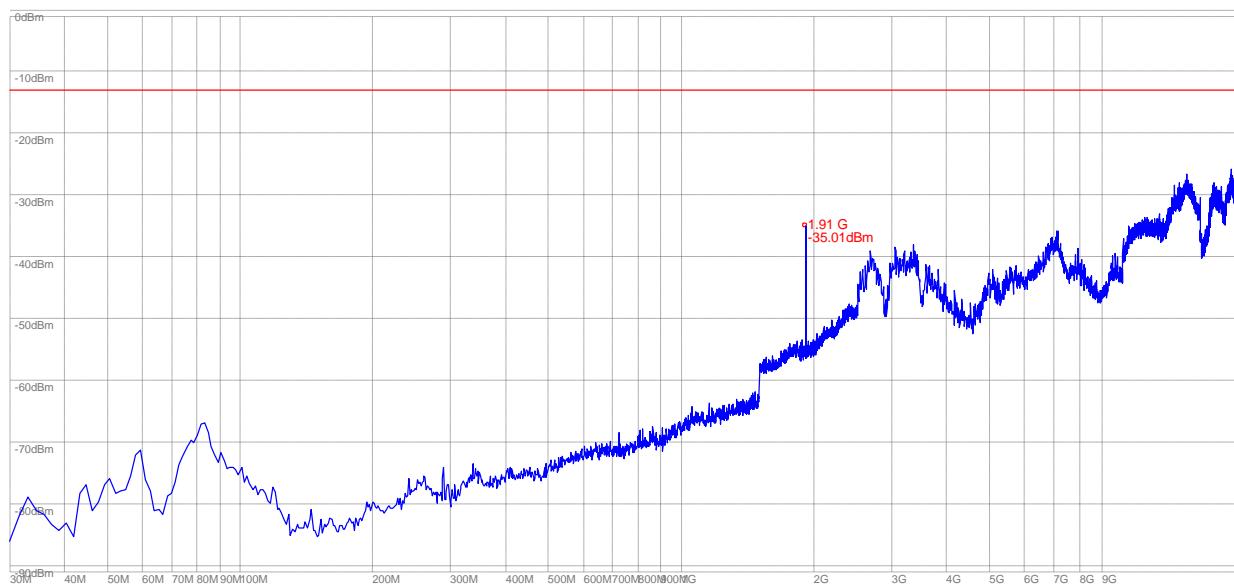
(Plot E.1: CDMA 1900MHz Channel = 600, Test Antenna Horizontal)



(Plot E.2: CDMA 1900MHz Channel = 600, Test Antenna Vertical)



(Plot F.1: CDMA 1900MHz Channel = 1175, Test Antenna Horizontal)



(Plot F.2: CDMA 1900MHz Channel = 1175, Test Antenna Vertical)

3.8 Frequency Stability

3.8.1 Frequency Stability Requirement

According to FCC section 22.355 and section 24.235, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

According to FCC §2.1055, the test conditions are:

(a) Temperature:

The temperature is varied from -30 °C to +50 °C at intervals of not more than 10 °C.

(b) Primary Supply Voltage:

For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

3.8.2 Test Procedure

1. Perform test system setup as section 3.1.3.
2. Set the voltage of the DC Power Supply to normal supply voltage (here used 3.7V) and the temperature of the Temperature Chamber to vary from -30 °C to +50 °C at intervals of 10 °C.
3. At each temperature level, the EUT is powered off and kept in the Temperature Chamber for two hours. After sufficient stabilization, turn on the EUT, command it via the System Simulator (SS) to operate at the maximum output power i.e. A communication link is established between the EUT and the SS.
4. The low, middle and the high channels are selected to perform tests respectively.
5. The frequency deviation is measured (directly read from the SS, which can report the parameter) within three minutes.
6. Set the voltage of the DC Power Supply to high extreme supply voltage (here used 4.2V) and the temperature of the Temperature Chamber to normal (here used +22 °C), then repeat step 3 to 5.
7. Set the voltage of the DC Power Supply to low extreme supply voltage (here used 3.4V) and the temperature of the Temperature Chamber to normal (here used +22 °C), then repeat step 3 to 5.

3.8.3 Test Result

Band	Test Conditions	Frequency Deviation	Verdi
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	Power (VDC)	Temperat ure (°C)	Channel = 1013 (824.7MHz)		Channel = 384 (836.52MHz)		Channel = 777 (848.31MHz)		ct			
			Hz	Limits	Hz	Limits	Hz	Limits				
CDMA 800MHz	3.7	-30	-11.54	±2.5pp m	18.11	±2.5pp m	-2.09	±2.5ppm	PASS			
		-20	1.87		-9.37		13.11					
		-10	12.09		10.26		0.95					
		0	-25.11		19.57		-0.17					
		+10	0.39		-3.67		1.75					
		+20	16.09		-13.08		29.01					
		+30	-9.88		-1.95		18.07					
		+40	14.57		25.31		-5.34					
		+50	19.31		-17.89		-17.63					
		4.2	+25		12.75		10.16					
	3.4	+25	25.07		13.05		0.89					
Band	Test Conditions		Frequency Deviation						Verdi ct			
	Power (VDC)	Temperat ure (°C)	Channel = 25 (1851.2MHz)		Channel = 600 (1880.0MHz)		Channel = 1175 (1908.8MHz)					
			Hz	Limits	Hz	Limits	Hz	Limits				
CDMA 1900MHz	3.7	-30	22.07	±1ppm	-0.19	±1ppm	12.43	±1ppm	PAS S			
		-20	-13.50		16.99		-21.09					
		-10	9.88		15.02		15.33					
		0	12.22		10.76		-23.05					
		+10	-9.35		-5.34		9.56					
		+20	8.89		17.34		-4.53					
		+30	-15.08		25.09		26.33					
		+40	9.58		-10.32		-5.31					
		+50	20.27		8.22		21.33					
		4.2	+25		-11.54		-6.54					
	3.4	+25	6.55		13.32		-12.89					

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