Report No.: SZ11060134W01

FCC TEST REPORT

Issued to

Teleepoch Limited

For

Mobile phone

Model Name:	VM2090PDKIT180; Wi921;
Brand Name:	Sienna
Trade Name:	PCD
FCC ID:	U46-WI921
Standard:	47 CFR Part 2 47 CFR Part 22 Subpart H 47 CFR Part 24 Subpart E
Test date:	July 10, 2011 –Aug 5, 2011
Issue date:	Aug 10, 2011

By

Shenzhen Morlab Communications Technology Co., Ltd.

Tested by Zhang Yan	*Approved by* Wu Xuewen	*Review by* Peng Huarui
Zhang Yan	Wu Xuewen	Peng Huarui
Date 2011.8.10	*Date* 2011.8.10	*Date* 2011.8.10

CTIA Authorized Test Lab LAB CODE 20081223-00 IEEE 1725 OTA | OFTA 電訊管理局 | ilac-MRA | TAF Testing Laboratory 2020 | GCF Official Observer of Global Certification Forum | Bluetooth BQTF | FCC Reg. No. 741109

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Change History		
Issue	Date	Reason for change
1.0	Aug 9, 2011	First edition

1. GENERAL INFORMATION

1.1 EUT Description

EUT Type ..... :	Mobile phone
Serial No. ..... :	(n.a, marked #1 by test site)
Hardware Version ..... :	WI921_V1.21
Software Version ..... :	N/A
Applicant ..... :	Teleepoch Limited 5A，B1 Building, Digital Tech Zone, High-Tech Park(south), Nanshan district, Shenzhen, Guangdong Province, China
Manufacturer ..... :	TELEEPOCH Limited 5A，B1 Building, Digital Tech Zone, High-Tech Park(south), Nanshan district, Shenzhen, Guangdong Province, China
Frequency Range ..... :	CDMA 800MHz: Tx: 824.7 – 848.31 MHz; Rx: 869.7-893.31MHz CDMA 1900MHz: Tx: 1851.25 MHz -1908.75 MHz; Rx: 1931.25 MHz-1988.75 MHz
Modulation Type..... :	CDMA 1X
Emission Designators ..... :	1M25F9W

Note 1: The EUT is a Mobile phone operating in Cellular and PCS bands.

Note 2: The normal configuration for the EUT is the CDMA2000 Mobile phone associated with ancillary equipments e.g. the Battery and/or the AC Adapter (Charger).

Note 3: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

1.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 2, Part 22 and Part 24 for the EUT 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/section required by FCC rules and results are as below:

No.	Section	Description	Result
1	2.1046	Conducted RF Output Power	PASS
2	2.1049 27.53	20dB Occupied Bandwidth	PASS
3	2.1055 22.355 24.235 27.54	Frequency Stability	PASS
4	2.1051 2.1057 22.917 24.238	Conducted Out of Band Emissions	PASS
5	2.1051 2.1057 22.917 24.238 27.53	Band Edge	PASS
6	22.913 24.232 27.50	Transmitter Radiated Power (EIPR/ERP)	PASS
7	2.1053 2.1057 22.917 24.238 27.53	Radiated Out of Band Emissions	PASS

NOTE：Measurement method according to ANSI/TIA-603-D 2010.

1.3 Facilities and Accreditations

1.3.1 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 test site is constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22; the FCC registration number is 741109.

1.3.2 Test Environment Conditions

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

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106

2. 47 CFR PART 2, PART 22H & 24E REQUIREMENTS

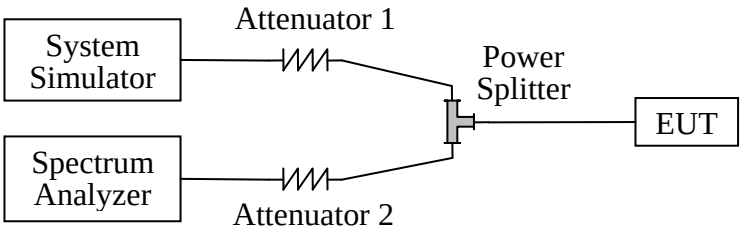
2.1 Conducted RF Output Power

2.1.1 Requirement

According to FCC section 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 FCC section 2.1033(c)(8).

2.1.2 Test Description

1. Test Setup:



The EUT, which is powered by the Battery, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.

2. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date
System Simulator	Agilent	E5515C	GB43130131	2011.05
Spectrum Analyzer	Agilent	E7405A	US44210471	2011.05
Power Splitter	Weinschel	1506A	NW521	(n.a.)
Attenuator 1	Resnet	20dB	(n.a.)	(n.a.)
Attenuator 2	Resnet	3dB	(n.a.)	(n.a.)

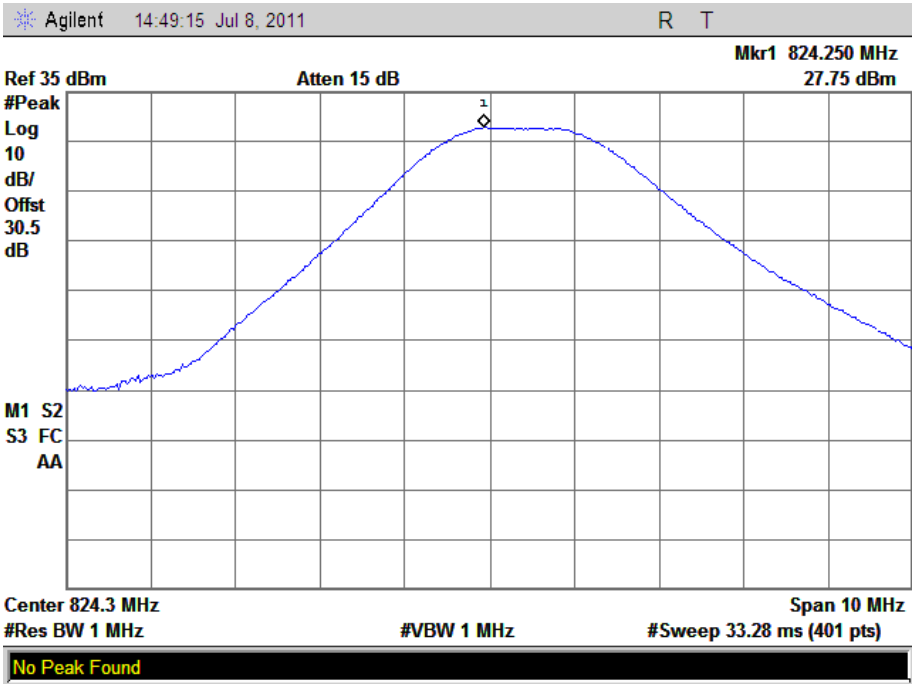
2.1.3 Test Result

Here the lowest, middle and highest channels are selected to perform testing to verify the conducted RF output power of the EUT. For the CDMA 800MHz operates at PCL=5 (where Power Class is 4), the rated conducted RF output power is 33dBm, and For the CDMA 1900MHz, the rated conducted RF output power is 30dBm.

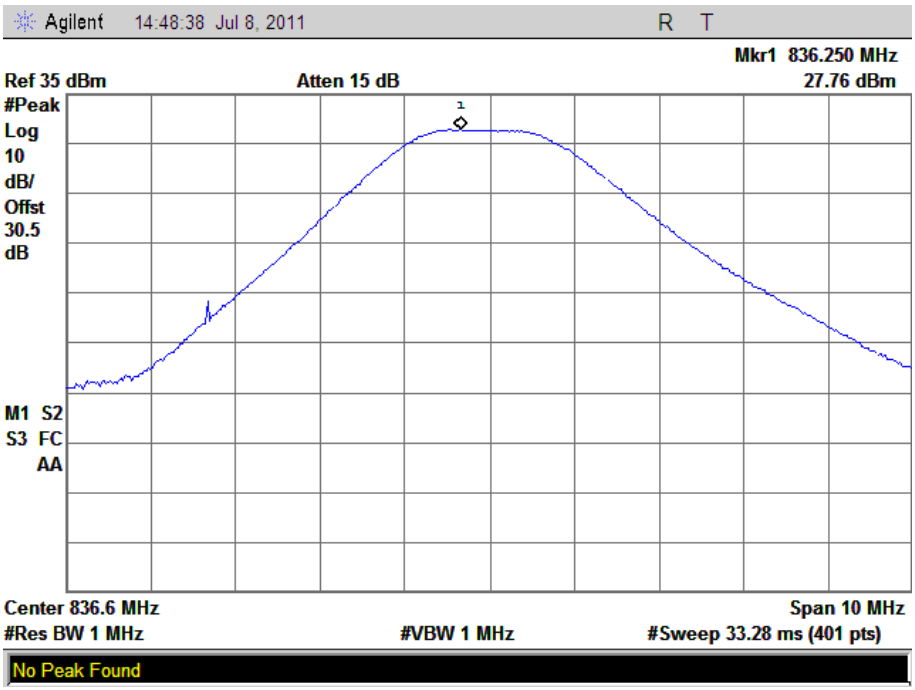
1. Test Verdict:

No.	Channel Number	Frequency (MHz)	Measured Power		Rated Power	
			dBm	Refer to Plot	dBm	W
CDMA 800MHz	1013	824.7	27.75	Plot A1 to A3	33	2
	384	836.52	27.76			
	777	848.31	27.62			
CDMA 1900MHz	25	1851.30	25.64	Plot B1 to B3	30	1
	600	1880.0	26.17			
	1175	1908.8	26.16			
CDMA 800-EVDO	1013	824.7	26.66	Plot C1 to C3	33	2
	384	836.52	26.96			
	777	848.31	27.22			
CDMA 1900-EVDO	25	1851.30	26.24	Plot D1 to D3	30	1
	600	1880.0	26.05			
	1175	1908.8	26.11			

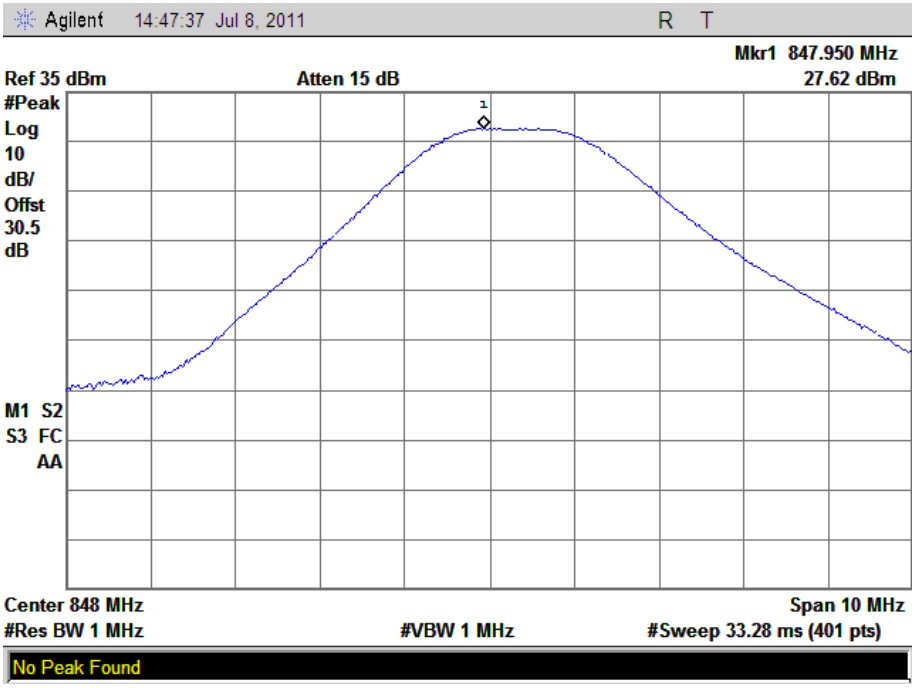
2. Test Plots:



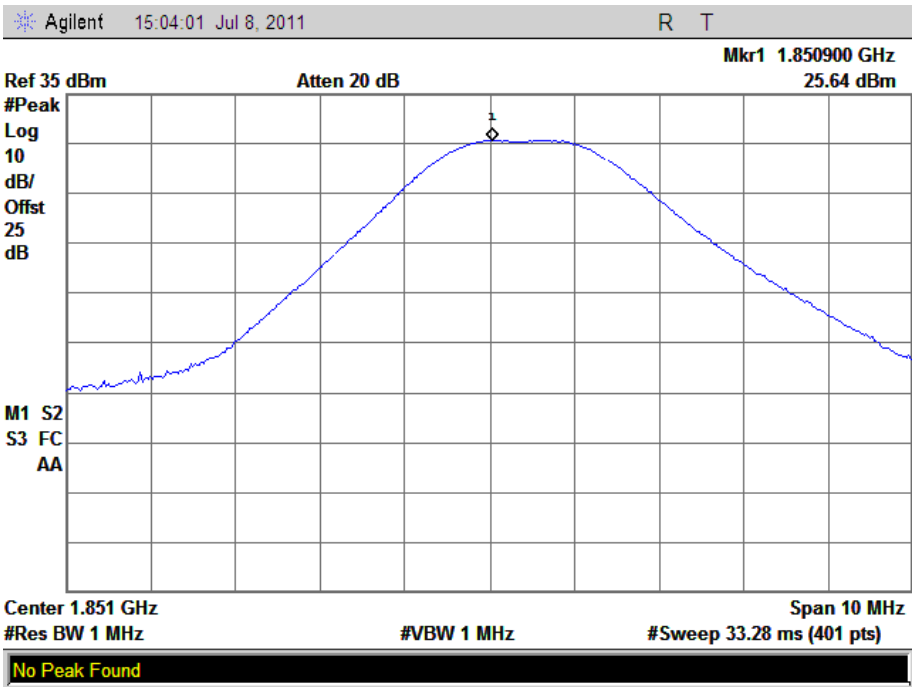
(Plot A1: CDMA 800MHz Channel = 1013)



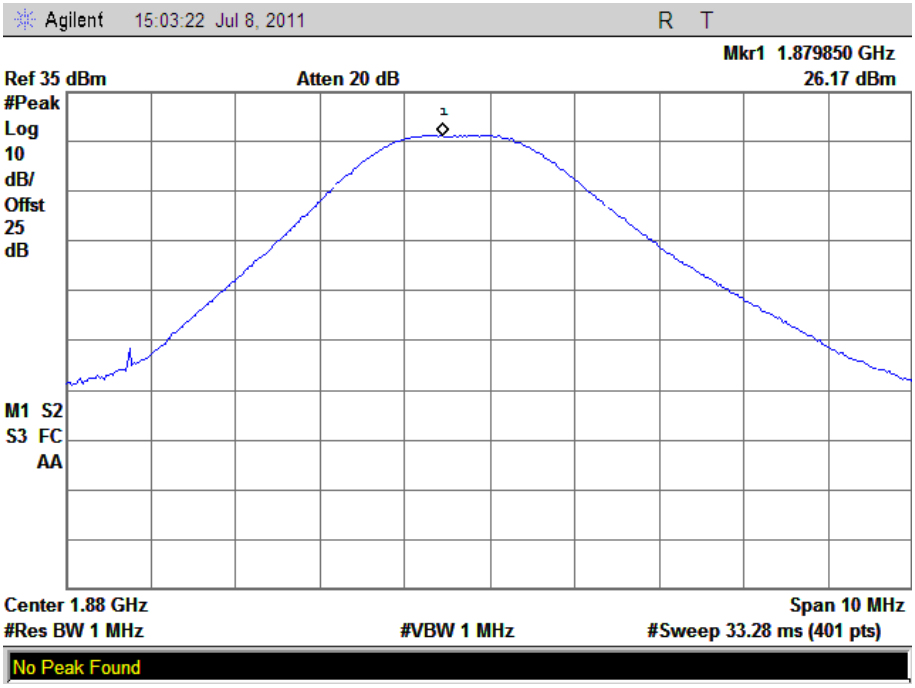
(Plot A2: CDMA 800MHz Channel = 384)



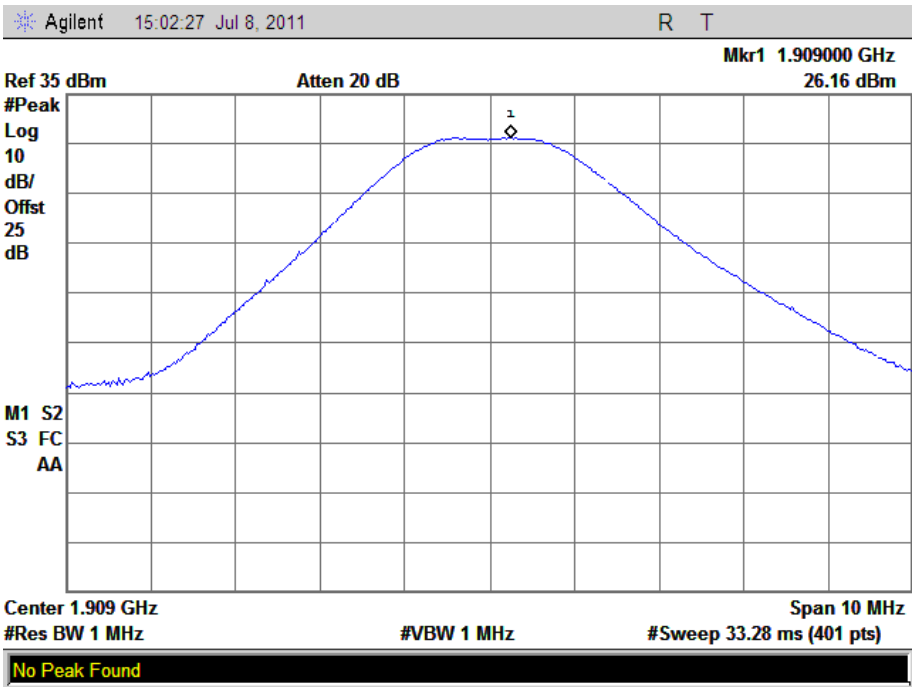
(Plot A3: CDMA 800MHz Channel = 777)



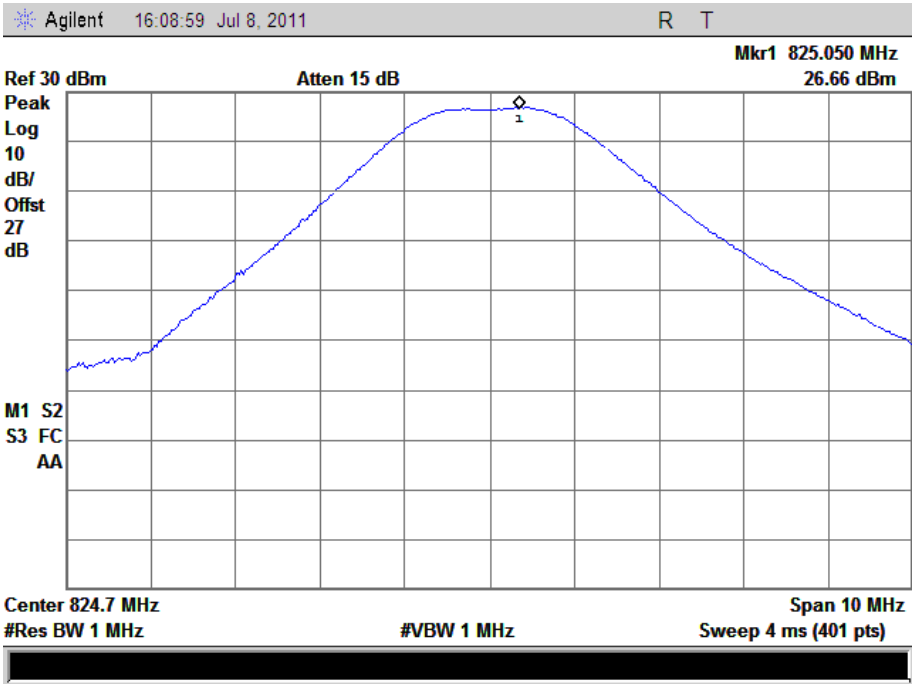
(Plot B1: CDMA 1900MHz Channel = 25)



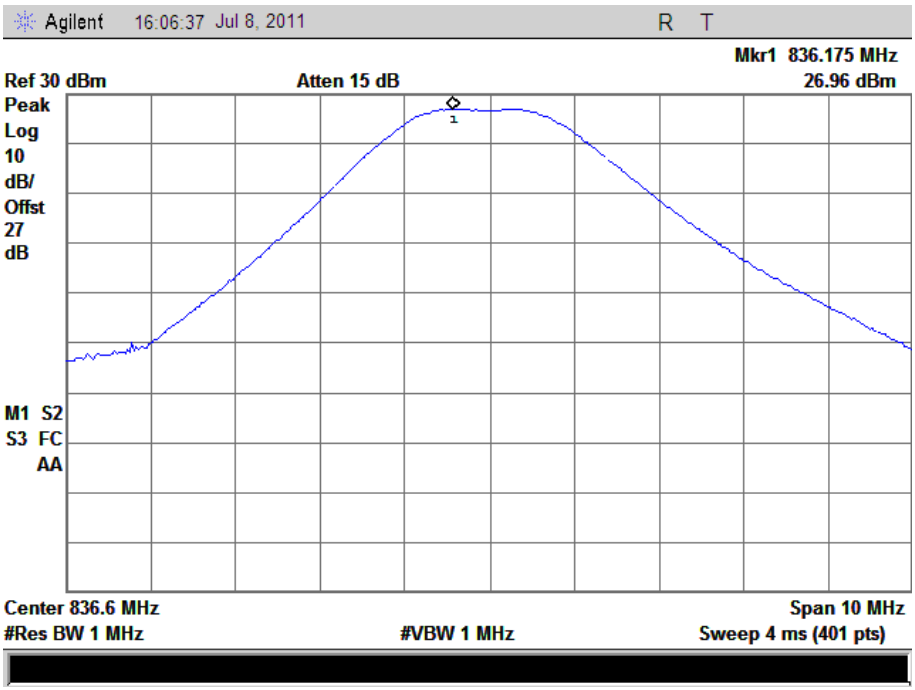
(Plot B2: CDMA 1900MHz Channel = 600)



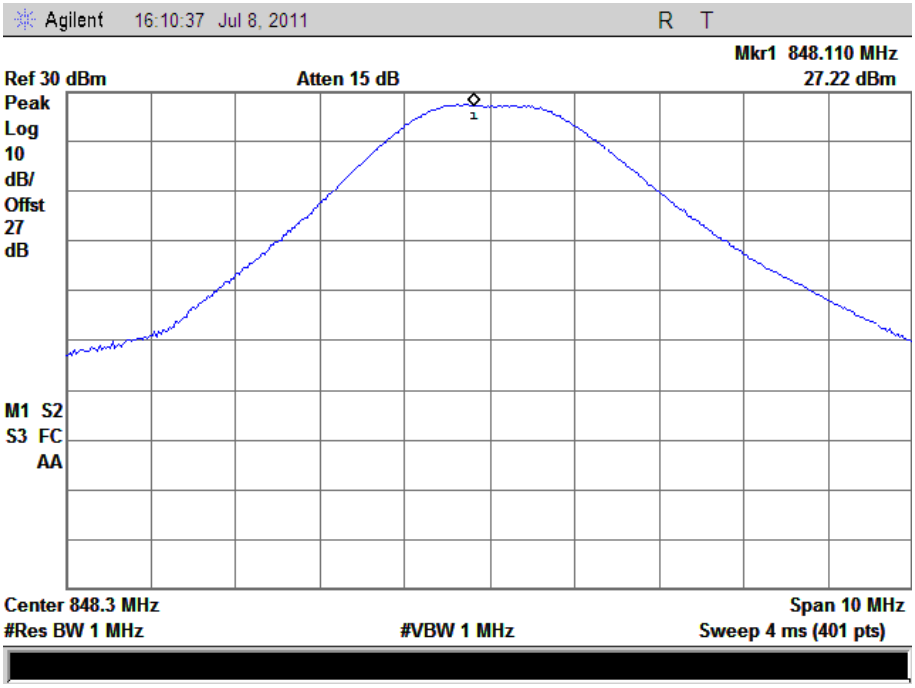
(Plot B3: CDMA 1900MHz Channel = 1175)



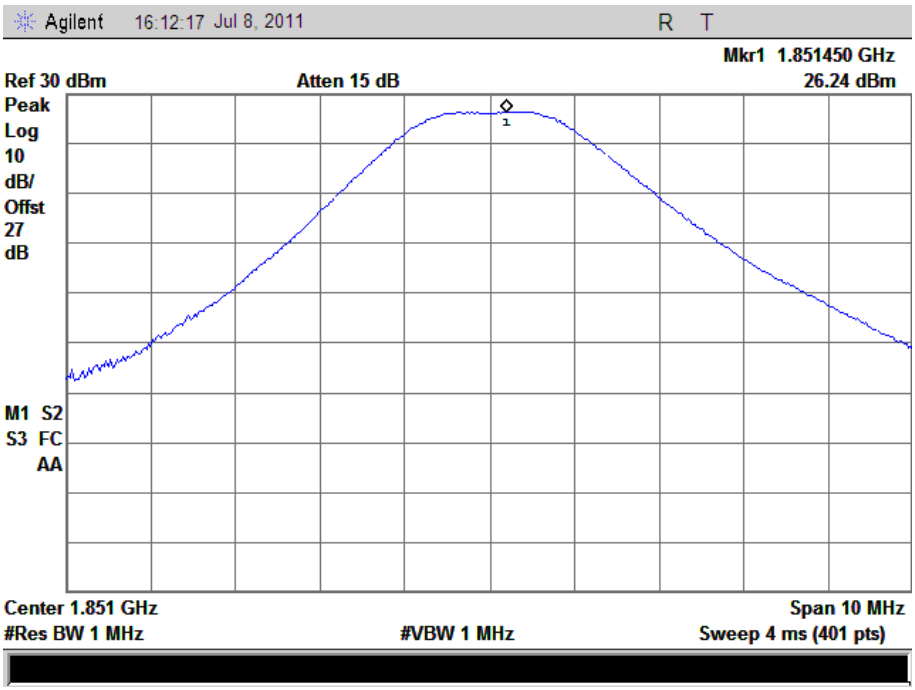
(Plot C1: CDMA -EVDO1900MHz Channel = 1013)



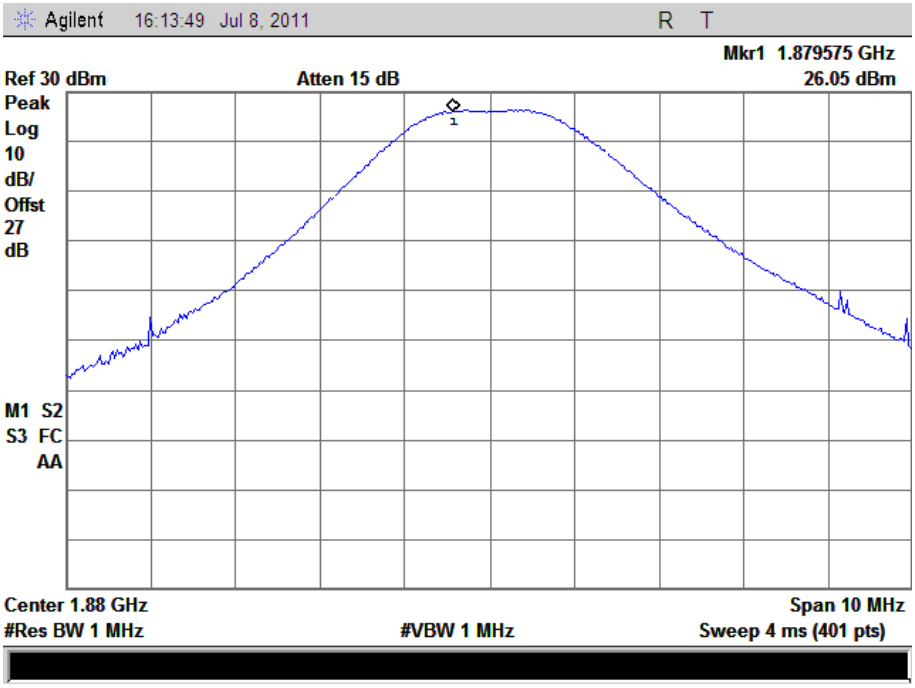
(Plot C2: CDMA -EVDO1900MHz Channel = 384)



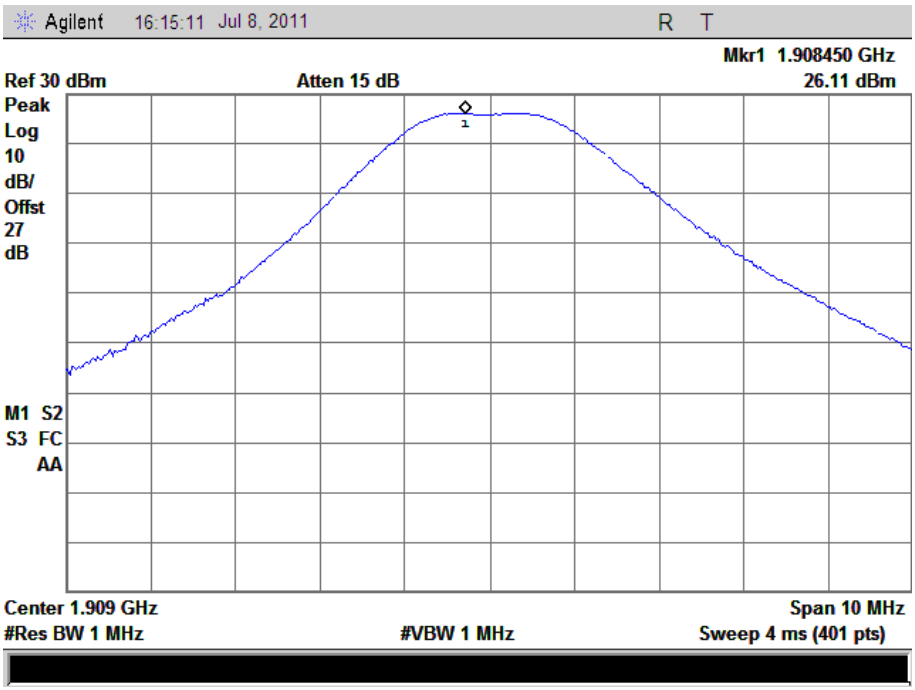
(Plot C3: CDMA -EVDO1900MHz Channel = 777)



(Plot D1: CDMA -EVDO1900MHz Channel = 25)



(Plot D2: CDMA -EVDO1900MHz Channel = 600)



(Plot D3: CDMA -EVDO1900MHz Channel = 1175)

2.2 99% Occupied Bandwidth

2.2.1 Definition

According to FCC section 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.

2.2.2 Test Description

See section 2.1.2 of this report.

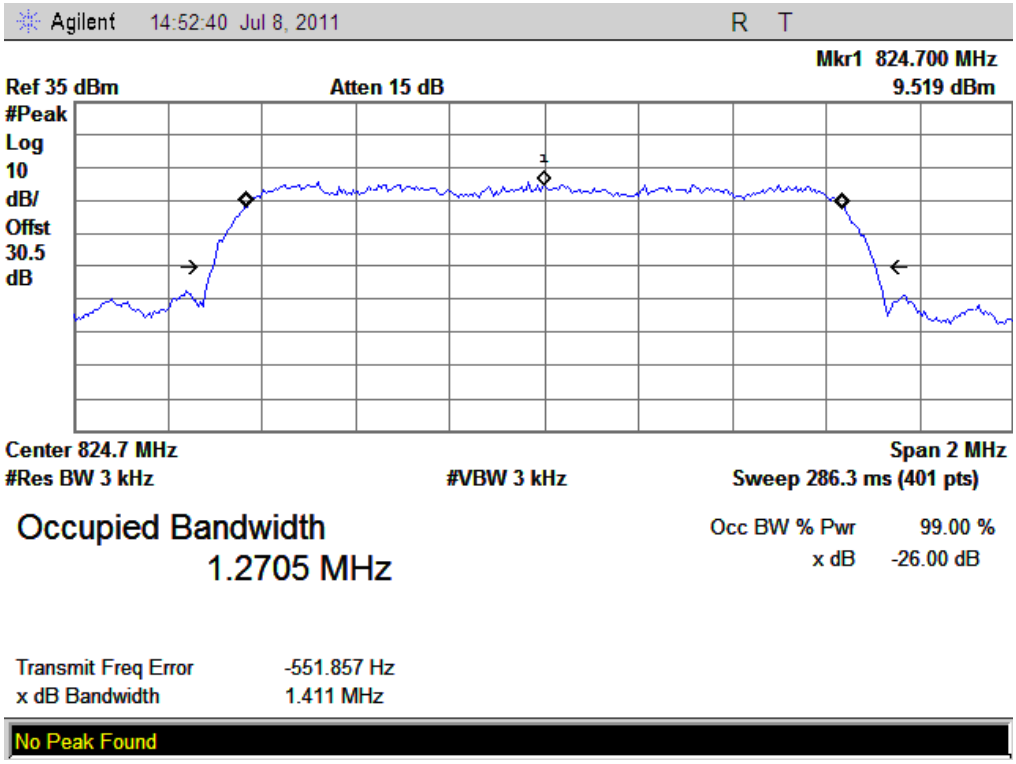
2.2.3 Test Verdict

Here the lowest, middle and highest channels are tested to record the 99% occupied bandwidth, it's about 1.27MHz.

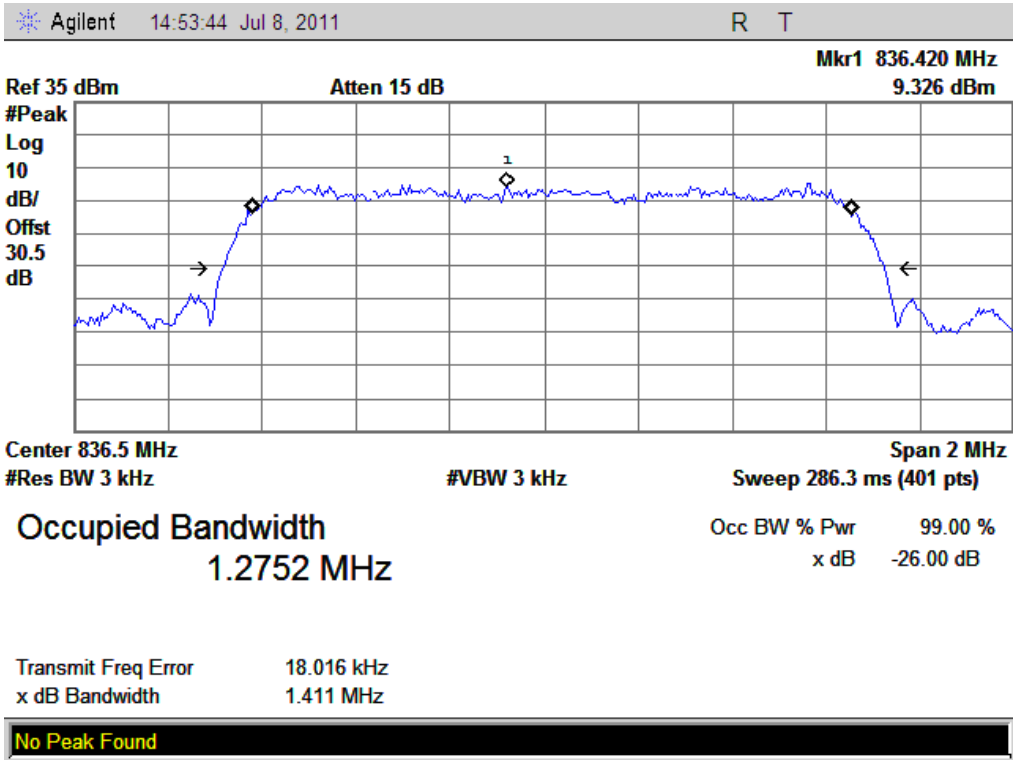
1. Test Verdict:

Band	Channel	Frequency (MHz)	Measured 20dB Occupied Bandwidth (MHz)	Refer to Plot
CDMA 800MHz	1013	824.7	1.2705	Plot A
	384	836.52	1.2752	Plot B
	777	848.31	1.2722	Plot C
CDMA 1900MHz	25	1850.2	1.2738	Plot D
	600	1880.0	1.2727	Plot E
	1175	1909.8	1.2705	Plot F
EVDO 800MHz	1013	824.7	1.2781	Plot G
	384	836.52	1.2752	Plot H
	777	848.31	1.2708	Plot I
EVDO 1900MHz	25	1850.2	1.2724	Plot J
	600	1880.0	1.2697	Plot K
	1175	1909.8	1.2739	Plot L

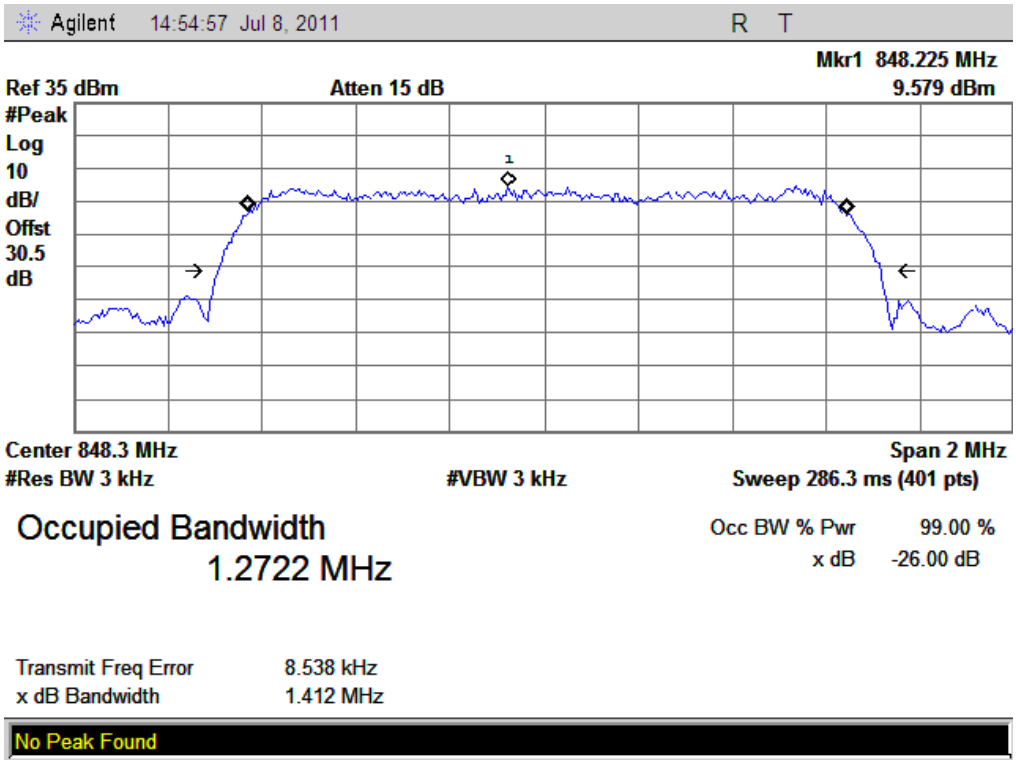
2. Test Plots:



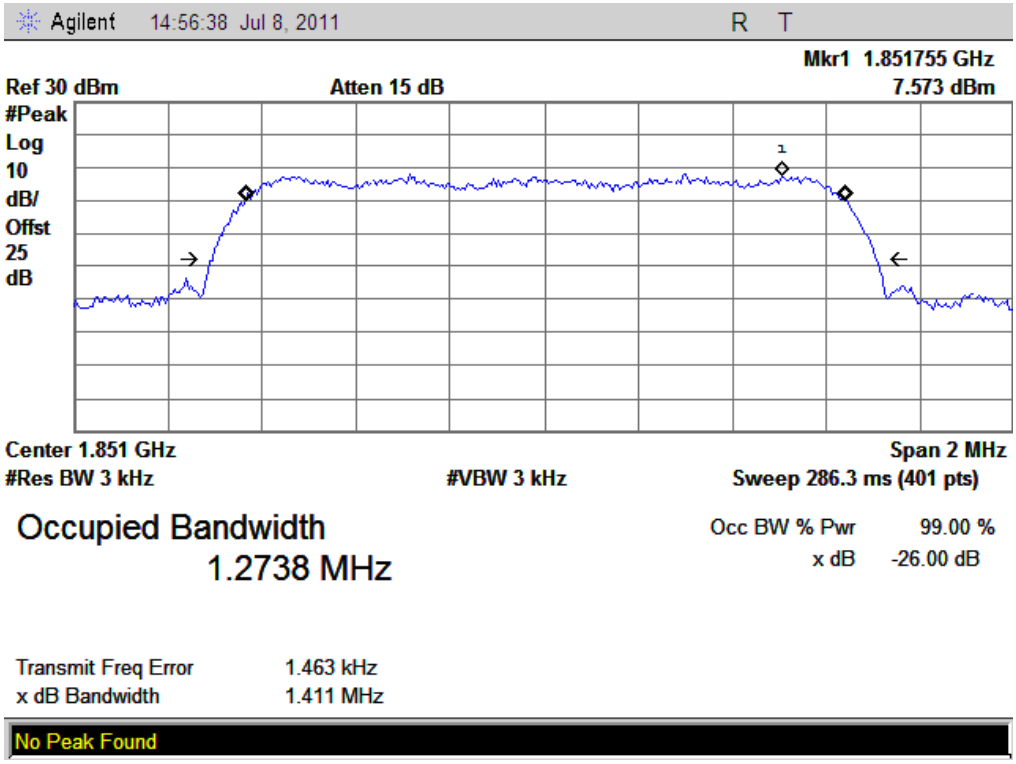
(Plot A: CDMA 800MHz Channel = 1013)



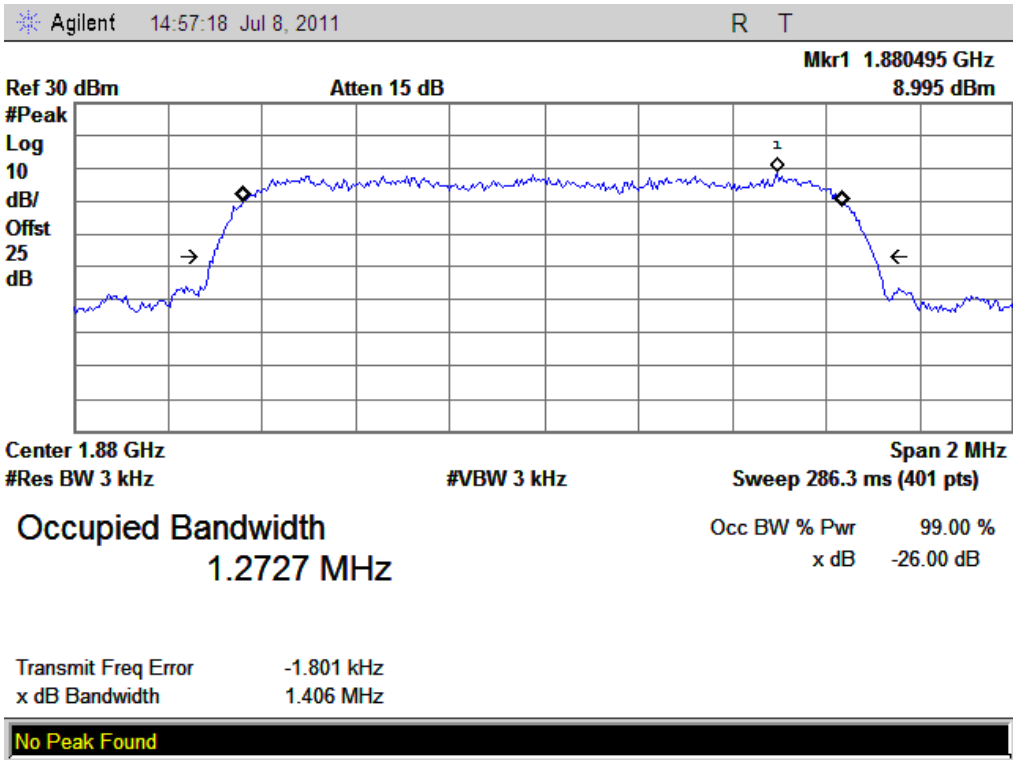
(Plot B: CDMA 800MHz Channel = 384)



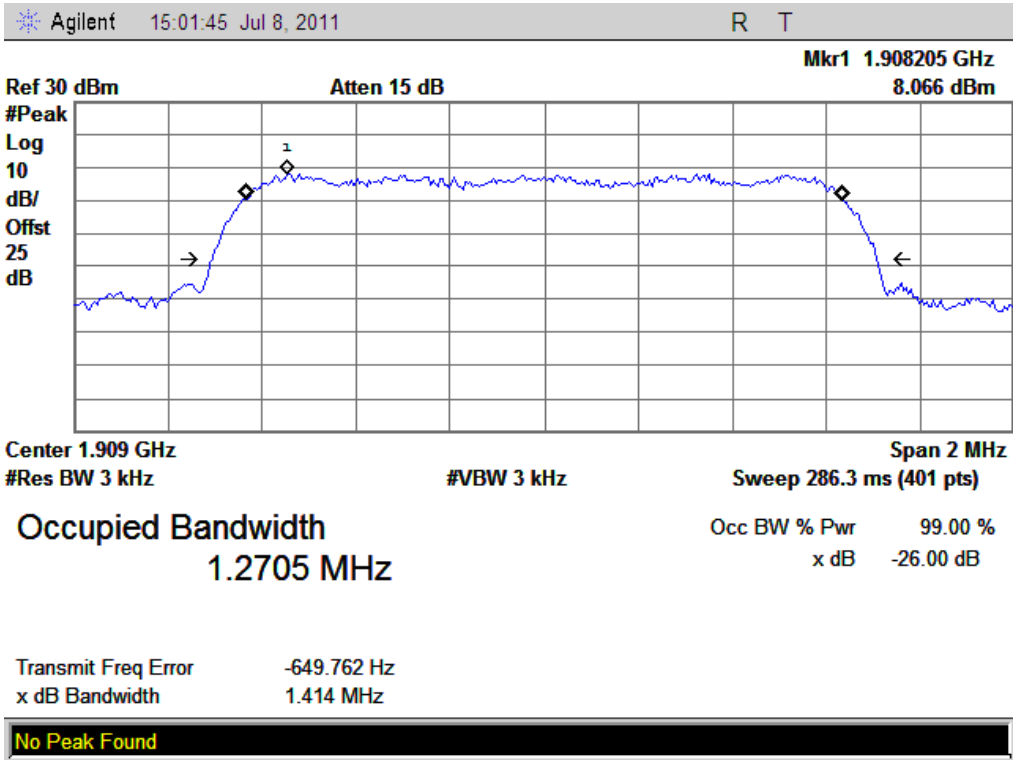
(Plot C: CDMA 800MHz Channel = 777)



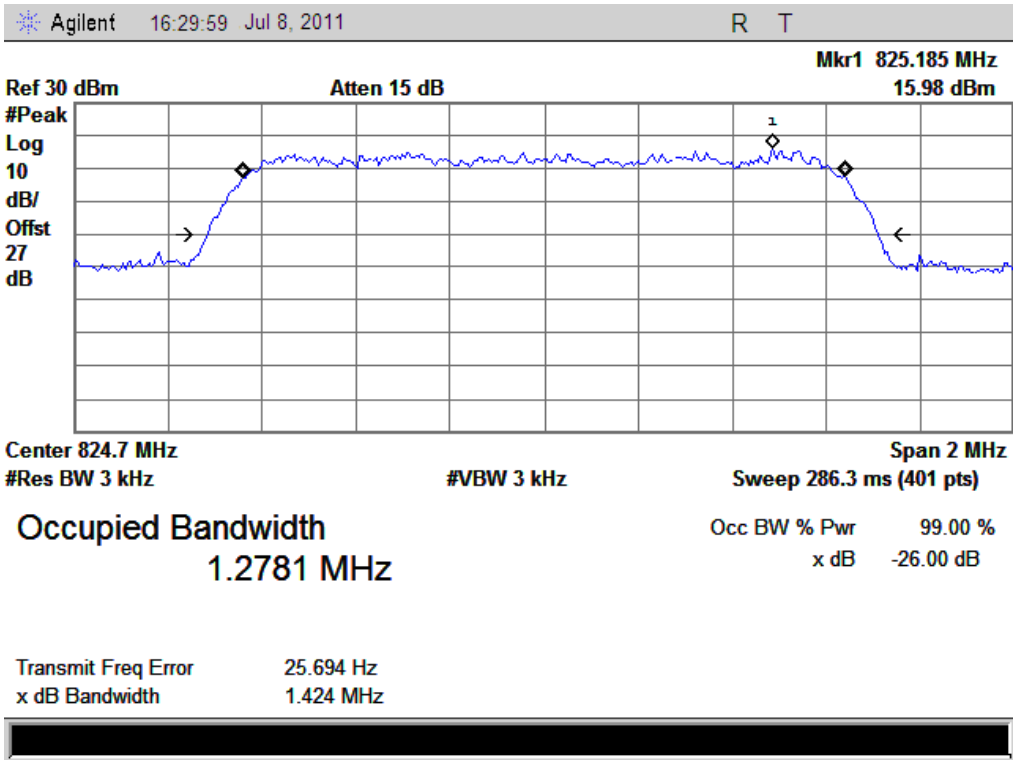
(Plot D: CDMA 1900MHz Channel = 25)



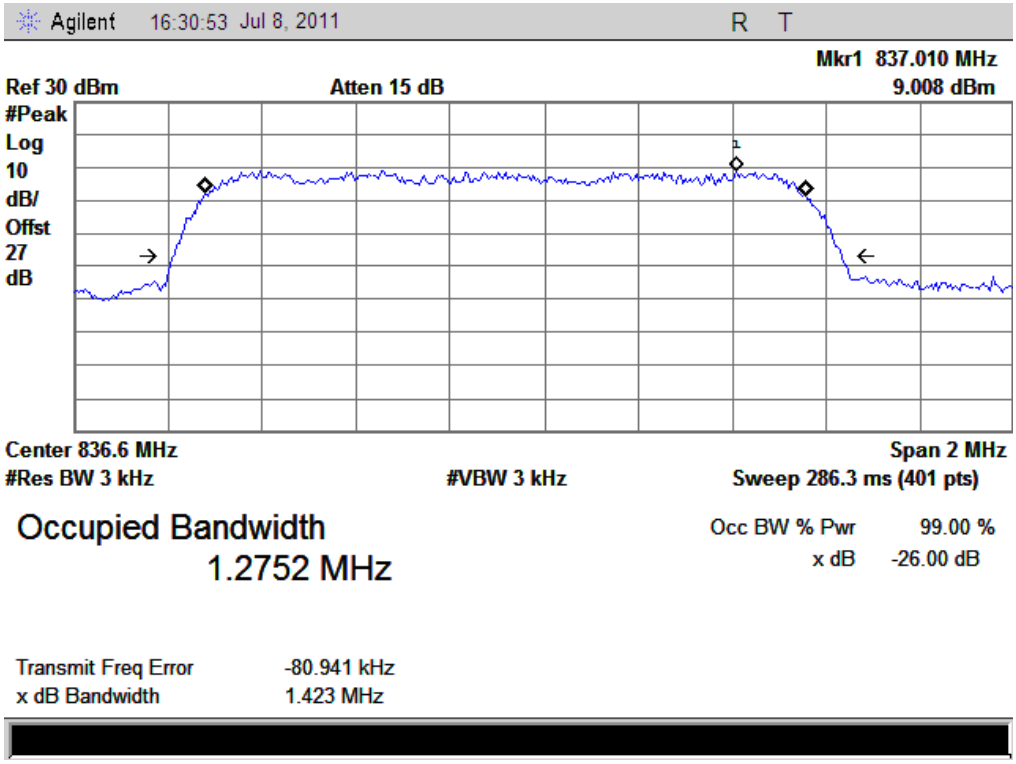
(Plot E: CDMA 1900MHz Channel = 600)



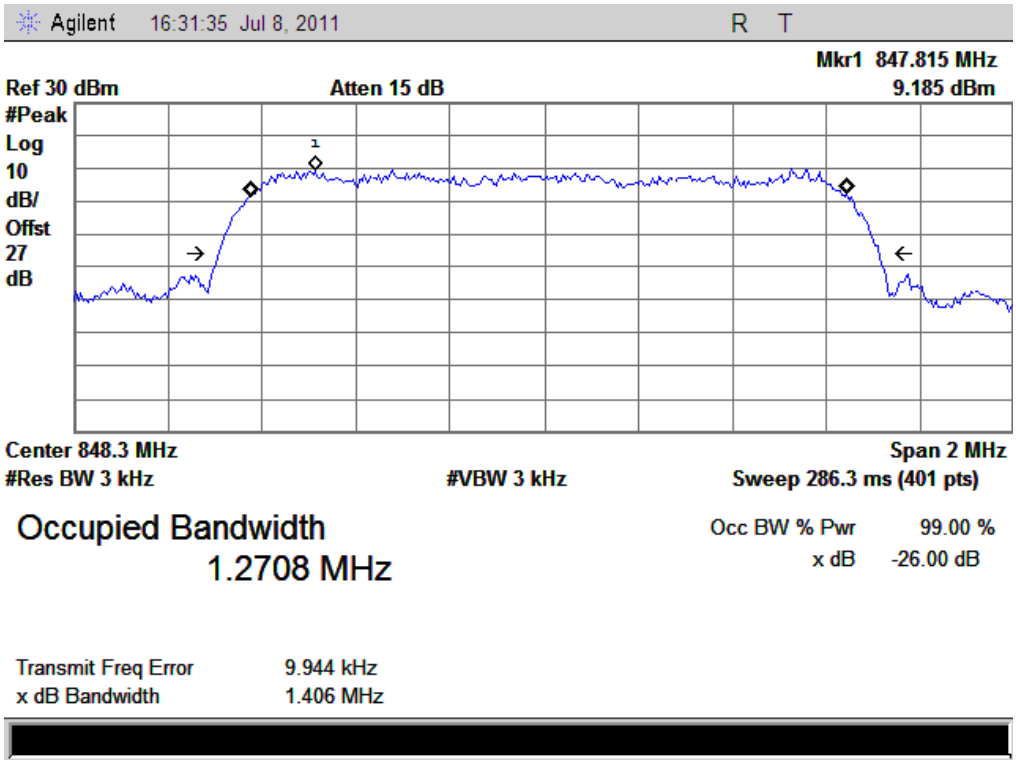
(Plot F: CDMA 1900MHz Channel = 1175)



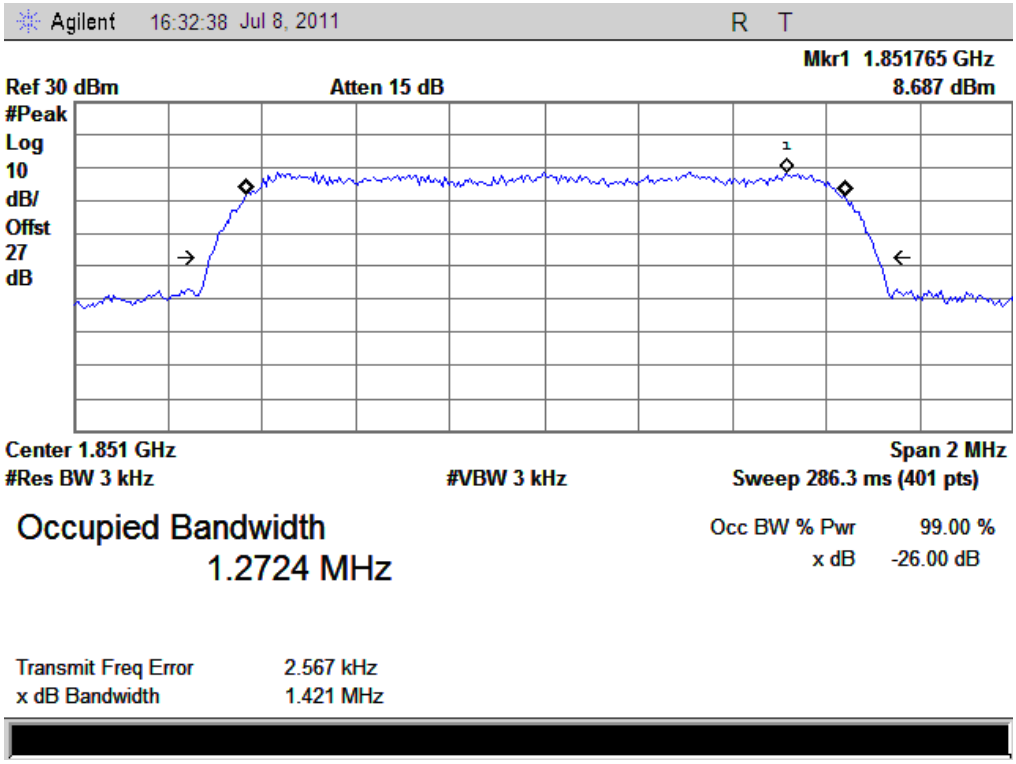
(Plot G: CDMA-EVDO 800MHz Channel = 1013)



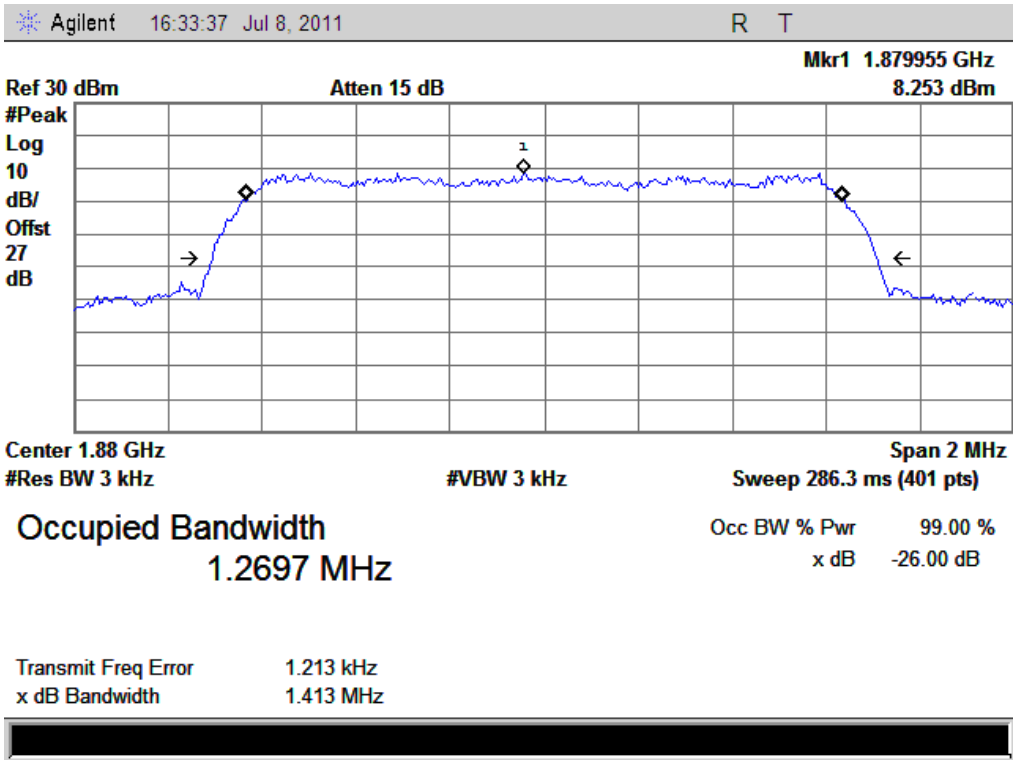
(Plot H: CDMA-EVDO 800MHz Channel = 384)



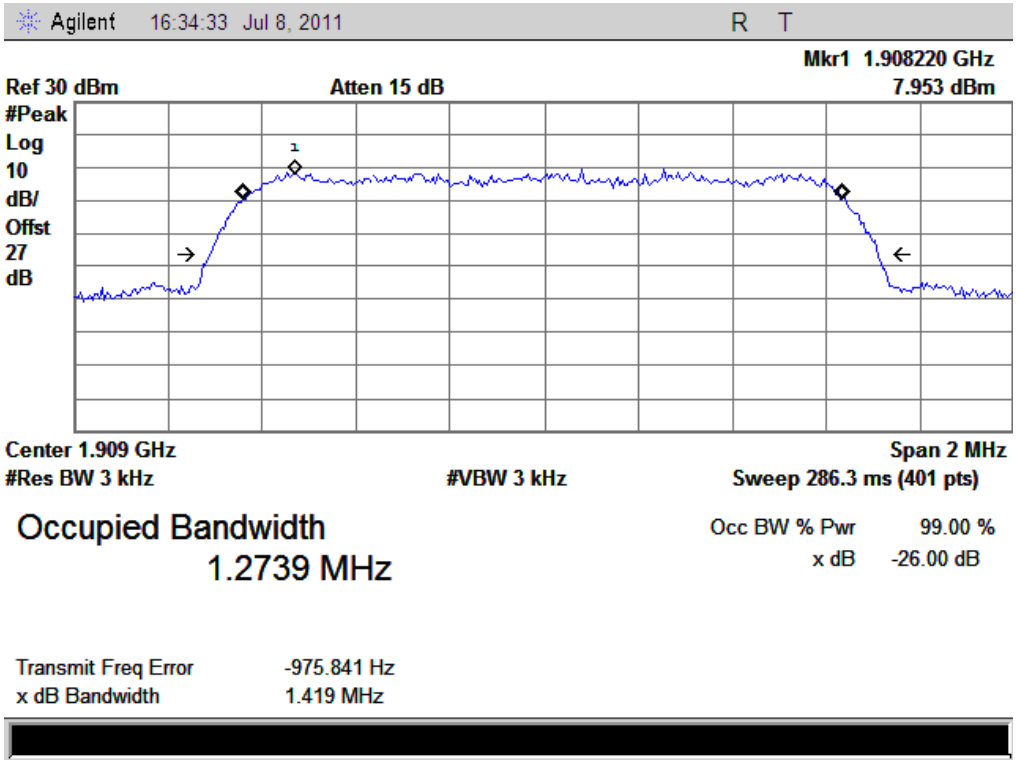
(Plot I: CDMA-EVDO 800MHz Channel = 777)



(Plot J: CDMA-EVDO 1900MHz Channel = 25)



(Plot K: CDMA-EVDO 1900MHz Channel = 600)



(Plot L: CDMA-EVDO 1900MHz Channel = 1175)

2.3 Frequency Stability

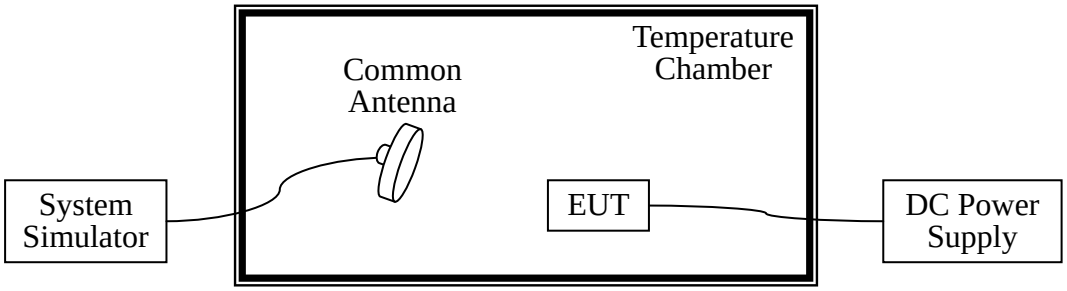
2.3.1 Requirement

According to FCC section 22.355 and FCC section 24.235, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

(a) The temperature is varied from -30°C to +50°C at intervals of not more than 10°C.
(b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. 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.

2.3.2 Test Description

1. Test Setup:



The EUT, which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS via a Common Antenna.

2. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date
System Simulator	Agilent	E5515C	GB43130131	2011.05
DC Power Supply	Good Will	GPS-3030DD	EF920938	2011.05
Temperature Chamber	YinHe Experimental Equip.	HL4003T	(n.a.)	2011.05

2.3.3 Test Verdict

The nominal, highest and lowest extreme voltages are separately 3.7VDC, 4.2VDC and 3.4VDC, which are specified by the applicant; the normal temperature here used is 25°C. The frequency deviation limit of CDMA 800MHz band is ±2.5ppm, CDMA 1900MHz is ±1ppm，and AWS 1700MHz is ±2.5ppm.

Band	Test Conditions		Frequency Deviation						Verdict
	Power (VDC)	Temperature (°C)	Channel = 1013 (824.7MHz)		Channel = 384 (836.52MHz)		Channel = 777 (848.31MHz)		
			Hz	Limits	Hz	Limits	Hz	Limits	
CDMA 800MHz	3.7	-30	-9.66	±2061.75	8.78	±2091.30	27.18	±2120.775	PASS
		-20	9.70		-10.17		30.07		
		-10	-10.06		27.28		5.48		
		0	21.06		-3.03		-1.82		
		+10	13.07		-3.03		19.02		
		+20	-12.76		-10.39		44.78		
		+30	-5.05		17.75		21.99		
		+40	-15.77		5.31		17.67		
		+50	5.39		-12.19		-19.44		
	4.2	+25	9.65		20.74		-6.76		
	3.3	+25	-0.75		23.29		-14.09		
Band	Test Conditions		Frequency Deviation						Verdict
	Power (VDC)	Temperature (°C)	Channel = 25 (1851.2MHz)		Channel = 600 (1880.0MHz)		Channel = 1175 (1908.8MHz)		
			Hz	Limits	Hz	Limits	Hz	Limits	
CDMA 1900MHz	3.7	-30	8.97	±1851.2	6.07	±1880.0	17.97	±1908.8	PASS
		-20	5.71		-2.63		-19.32		
		-10	-5.22		0.31		18.71		
		0	9.37		-3.20		11.82		
		+10	13.97		1.18		1.23		
		+20	22.42		3.61		-3.60		
		+30	18.57		-11.62		-7.78		
		+40	-19.93		-7.97		22.21		
		+50	23.76		-8.23		-11.57		
	4.2	+25	-10.20		23.16		1.97		
	3.3	+25	-7.09		16.94		11.40		

Band	Test Conditions		Frequency Deviation						Verdict
	Power (VDC)	Temperature (°C)	Channel = 1013 (824.7MHz)		Channel = 384 (836.52MHz)		Channel = 777 (848.31MHz)		
			Hz	Limits	Hz	Limits	Hz	Limits	
CDMA 800-EVDO	3.7	-30	-11.2	±2.5ppm	21.1	±2.5ppm	21.15	±2.5ppm	PASS
		-20	-2.06		23.3		-11.6		
		-10	12.88		20.5		16.18		
		0	-21.7		-3.32		33.42		
		+10	-18.7		22.7		-25.4		
		+20	32.54		-2.32		13.64		
		+30	-18.8		23.1		-29.4		
		+40	24.49		11.33		27.10		
		+50	40.72		-17.5		10.55		
	4.2	+25	16.15		38.1		12.09		
	3.3	+25	52.34		-12.3		15.52		

Band	Test Conditions		Frequency Deviation						Verdict
	Power (VDC)	Temperature (°C)	Channel = 25 (1851.2MHz)		Channel = 600 (1880.0MHz)		Channel = 1175 (1908.8MHz)		
			Hz	Limits	Hz	Limits	Hz	Limits	
CDMA 1900-EVDOO	3.7	-30	4.67	±1ppm	16.57	±1ppm	-3.10	±1ppm	PASS
		-20	31.98		0.09		38.28		
		-10	-16.33		-6.66		-2.15		
		0	-27.80		15.73		40.06		
		+10	1.66		-6.86		1.99		
		+20	-3.47		16.85		-19.86		
		+30	9.22		-1.79		39.56		
		+40	0.97		11.07		46.60		
		+50	-2.52		-4.99		39.98		
	4.2	+25	28.81		-0.74		-15.71		
	3.3	+25	10.54		8.57		-17.70		

2.4 Conducted Out of Band Emissions

2.4.1 Requirement

According to FCC section 22.917(a) and FCC section 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.

2.4.2 Test Description

See section 2.1.2 of this report.

2.4.3 Test Result

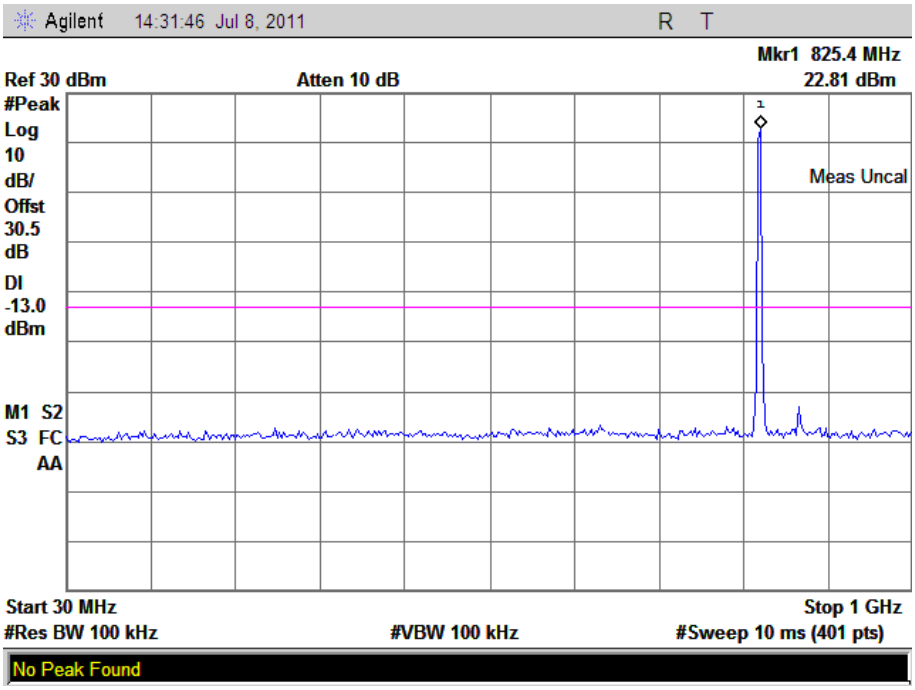
The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

1. Test Verdict:

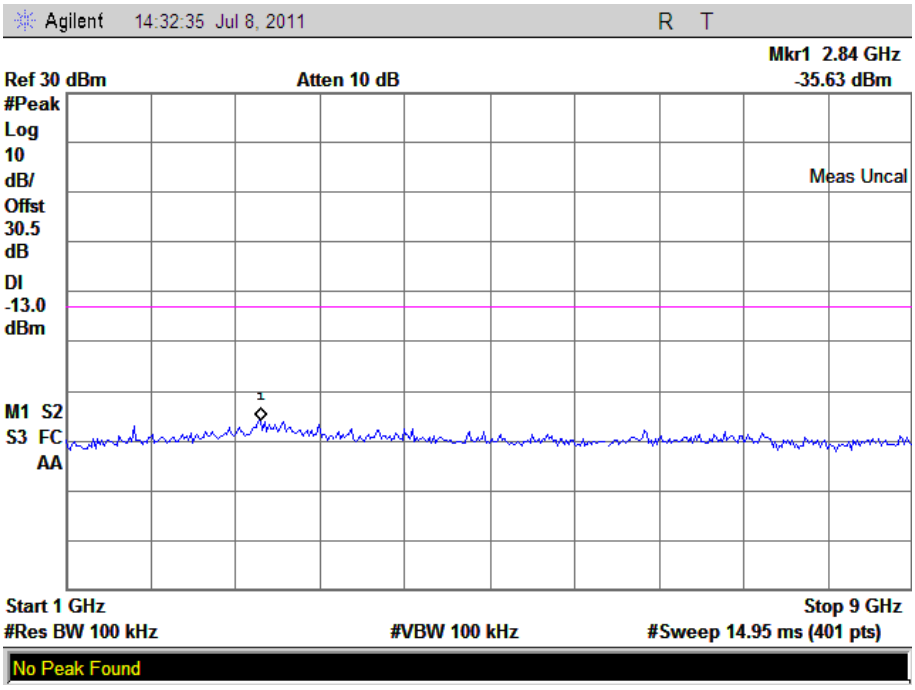
No.	Channel	Frequency(MHz)	Measured Max Spurious Emission(dBm)	Limit(dBm)
CDMA 800MHz	1013	824.7	<-25	-13
	384	836.52	<-25	-13
	777	848.31	<-25	-13
CDMA 1900MHz	25	1850.2	<-25	-13
	600	1880.0	<-25	-13
	1175	1909.8	<-25	-13
EVDO 800MHz	1013	824.7	<-25	-13
	384	836.52	<-25	-13
	777	848.31	<-25	-13
EVDO 1900MHz	25	1850.2	<-25	-13
	600	1880.0	<-25	-13
	1175	1909.8	<-25	-13

2. Test Plots for the Whole Measurement Frequency Range:

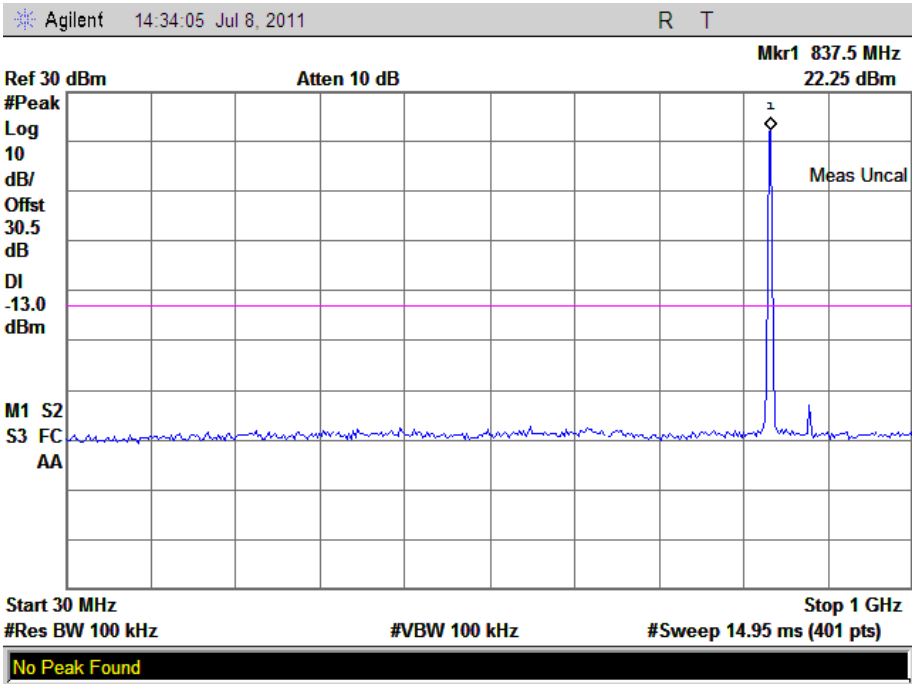
Note: the power of the EUT transmitting frequency should be ignored.



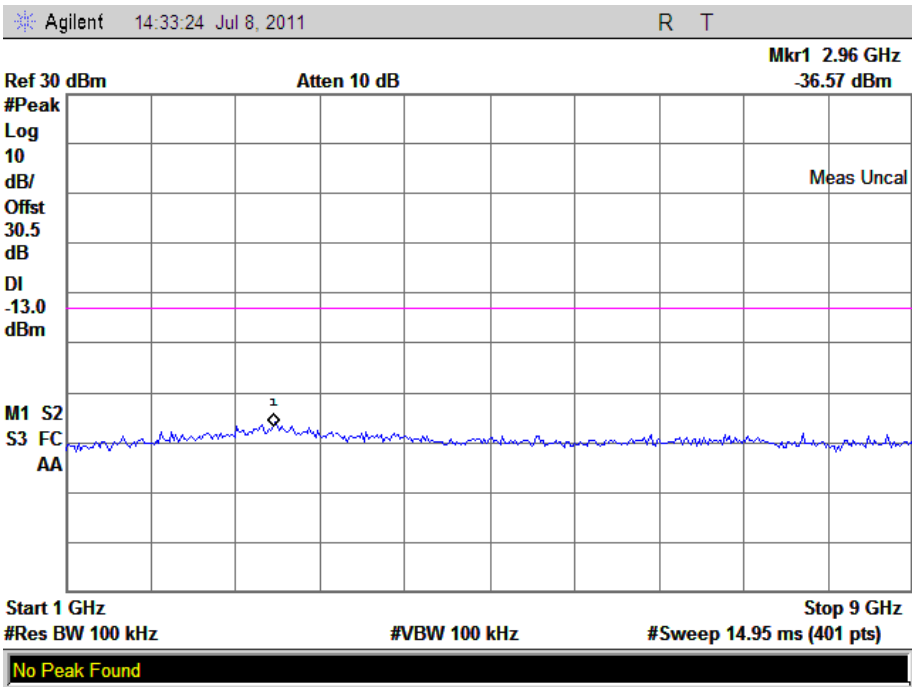
(Plot A: CDMA 800MHz Channel = 1013, 30MHz to 1GHz)



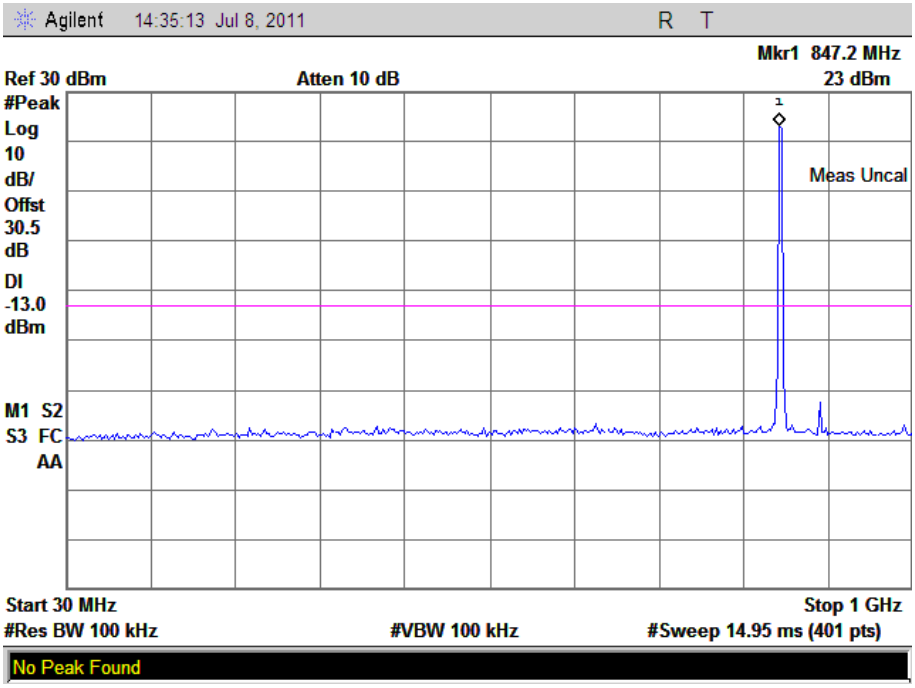
(Plot B: CDMA 800MHz Channel = 1013, 1GHz to 9GHz)



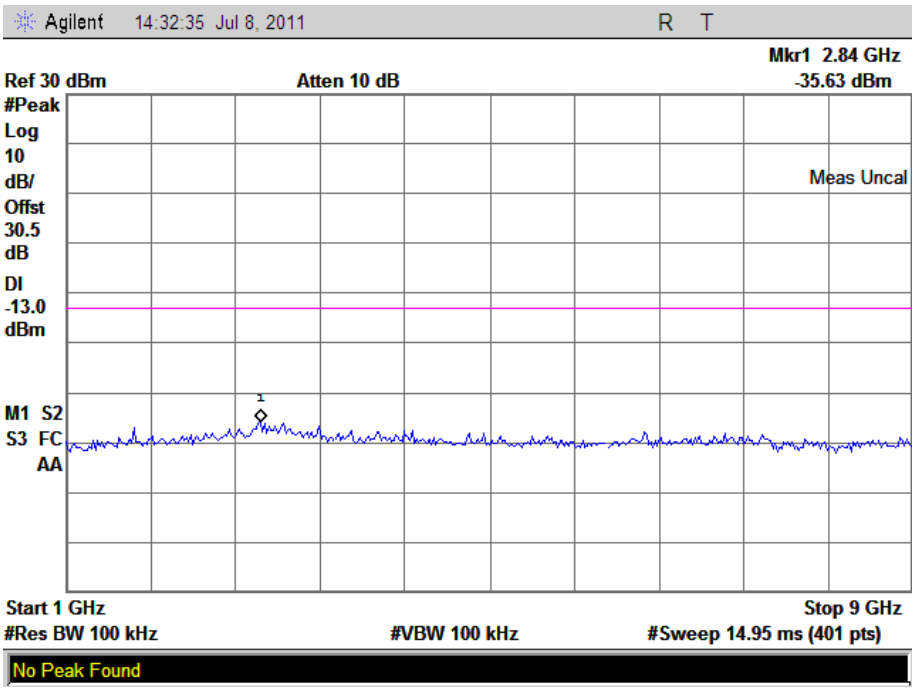
(Plot C: CDMA 800MHz Channel = 384 30MHz to 1GHz)



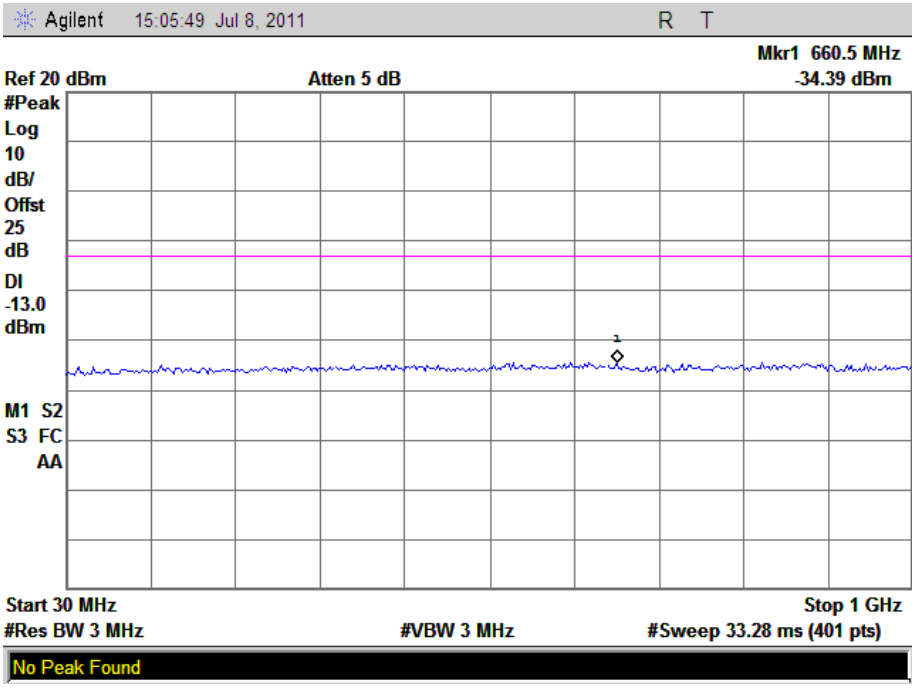
(Plot D: CDMA 1900MHz Channel = 384 1GHz to 9GHz)



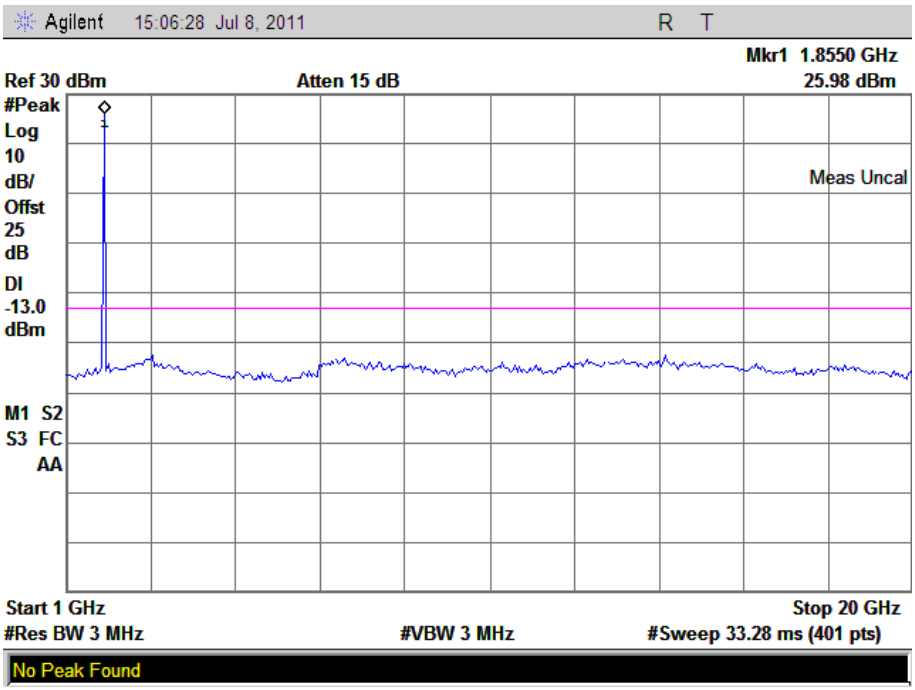
(Plot E: CDMA 800 MHz Channel = 777, 30MHz to 1GHz)



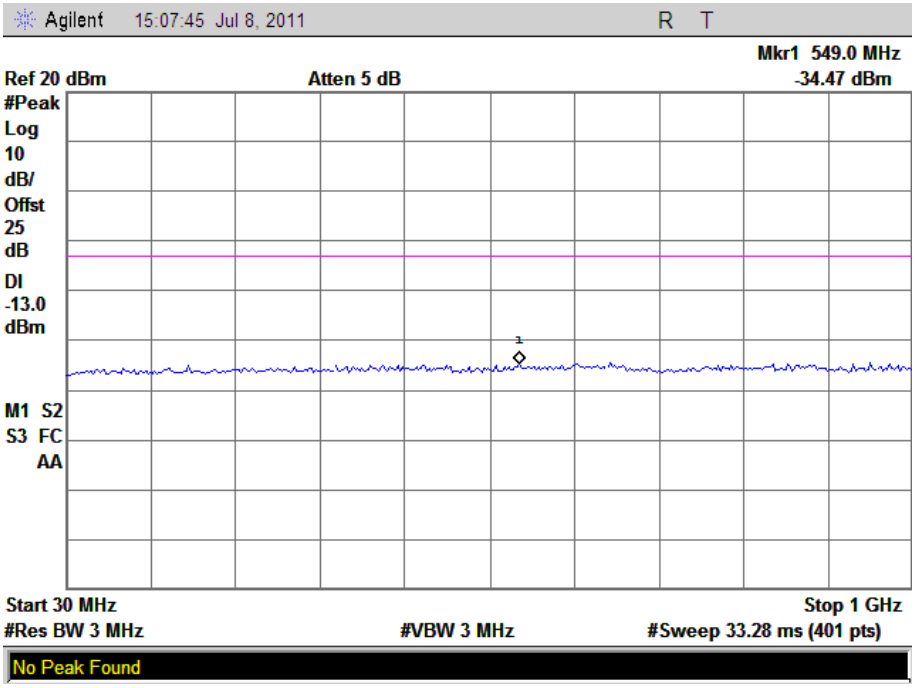
(Plot F: CDMA 800MHz Channel = 777, 1GHz to 9GHz)



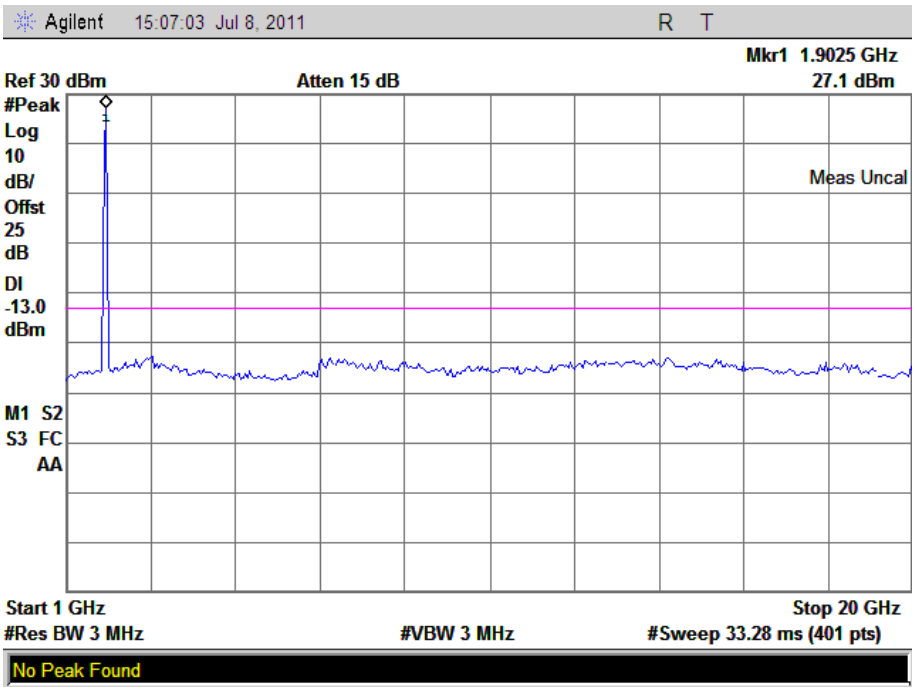
(Plot G: CDMA1900MHz Channel = 25, 30MHz to 1GHz)



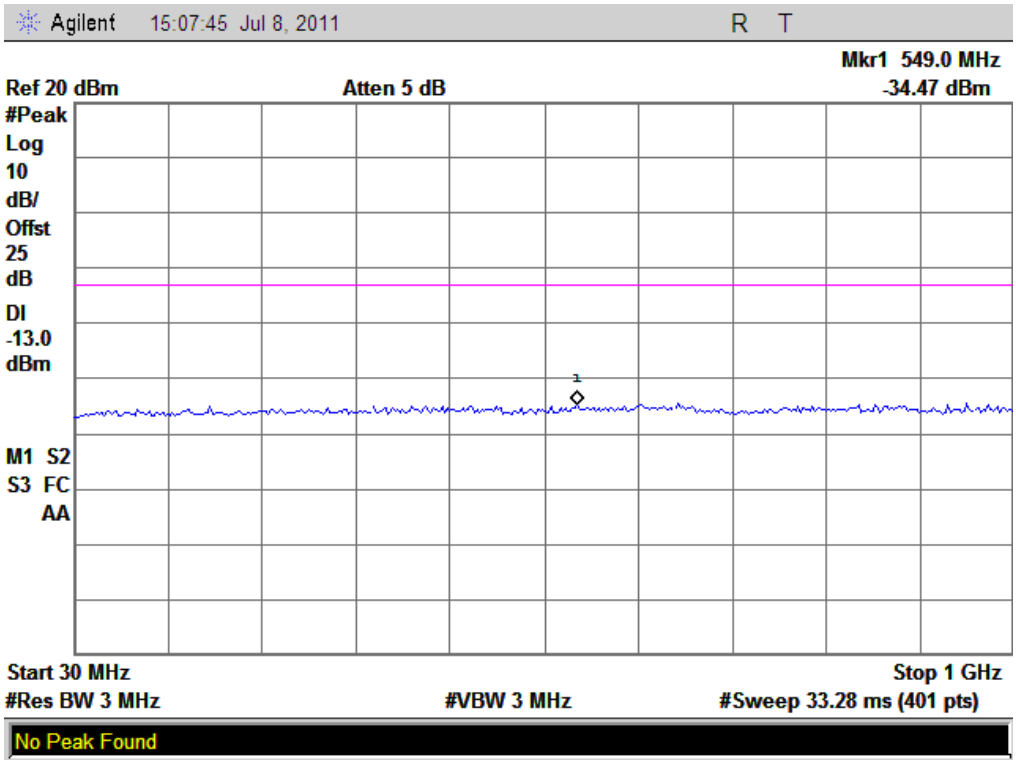
(Plot H: CDMA1900MHz Channel = 25, 1GHz to 20GHz)



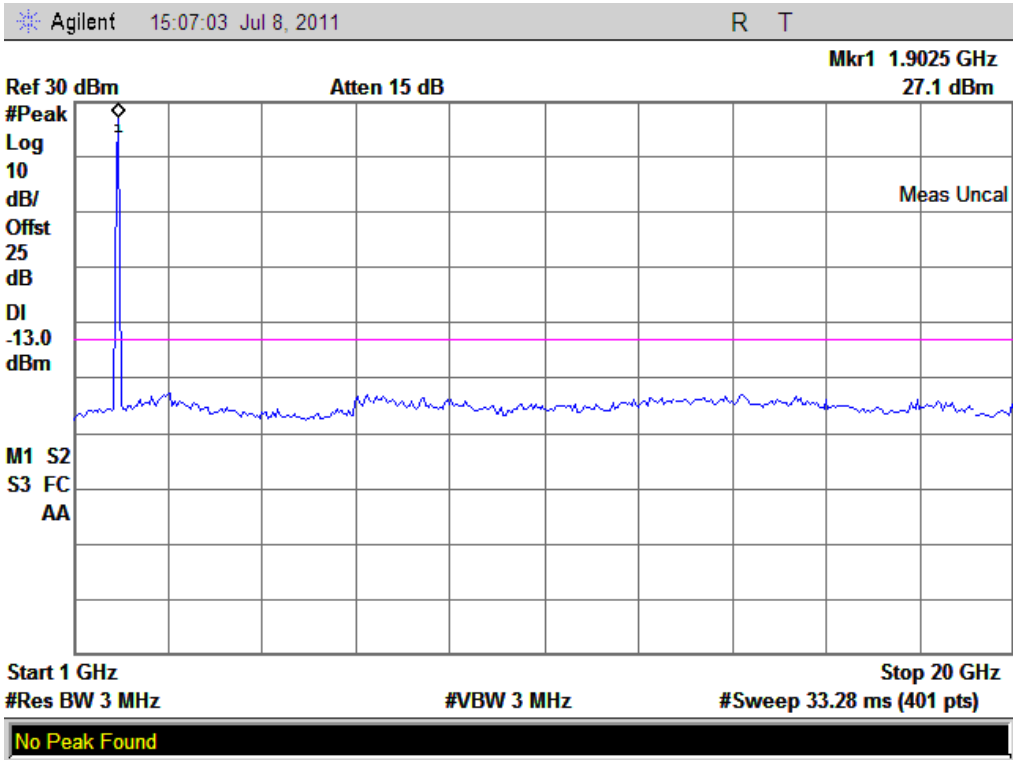
(Plot I: CDMA1900MHz Channel = 600, 30MHz to 1GHz)



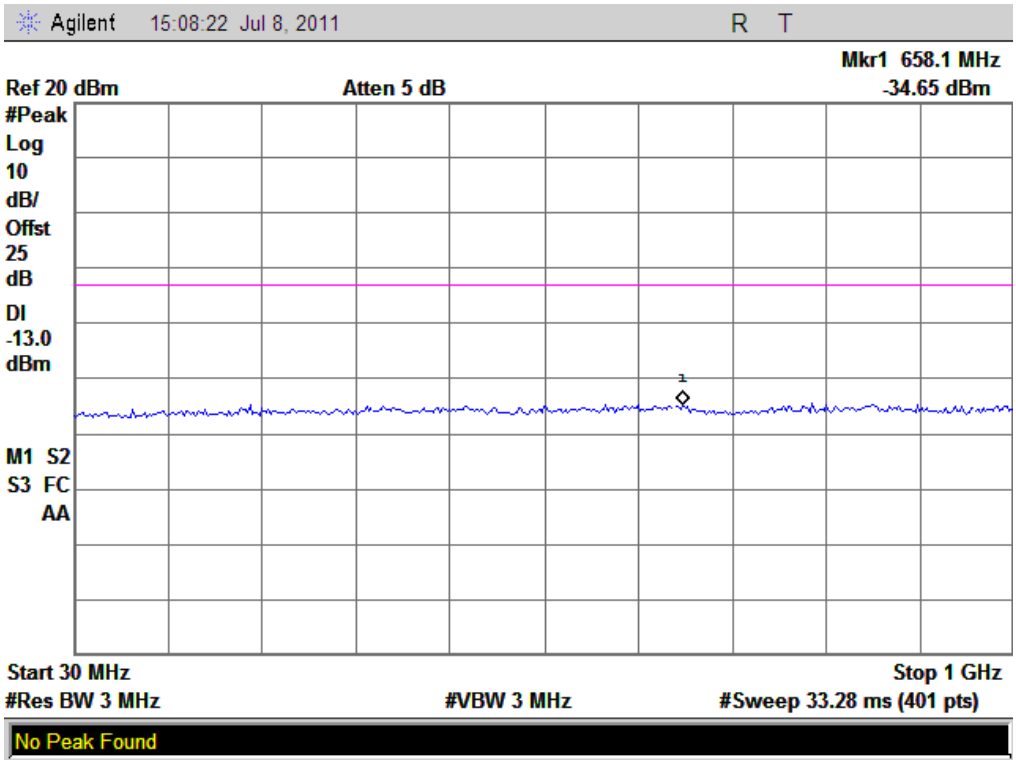
(Plot J: CDMA-EVDO 1900MHz Channel = 25, 1GHz to 20GHz)



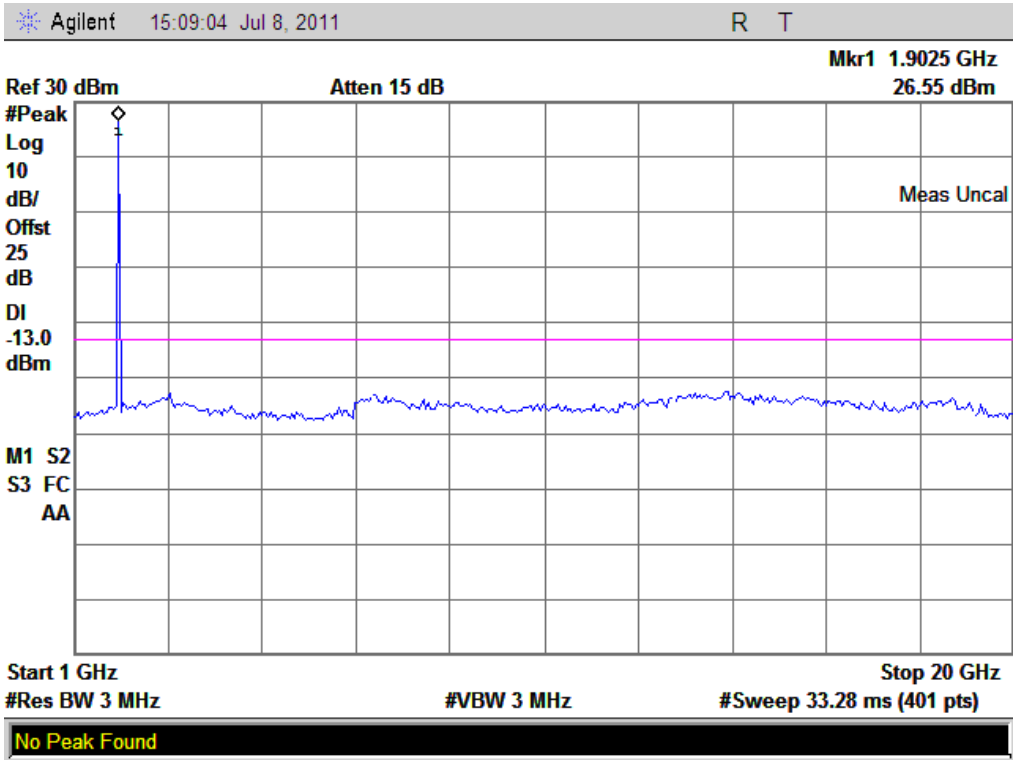
(Plot K: CDMA-EVDO 1900MHz Channel = 600, 30MHz to 1GHz)



(Plot L: CDMA-EVDO 1900MHz Channel = 600, 1GHz to 20GHz)



(Plot M: CDMA-EVDO 1900MHz Channel = 1157, 30MHz to 1GHz)



(Plot N: CDMA-EVDO 1900MHz Channel = 1157, 1GHz to 20GHz)

2.5 Band Edge

2.5.1 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.

2.5.2 Test Description

See section 2.1.2 of this report.

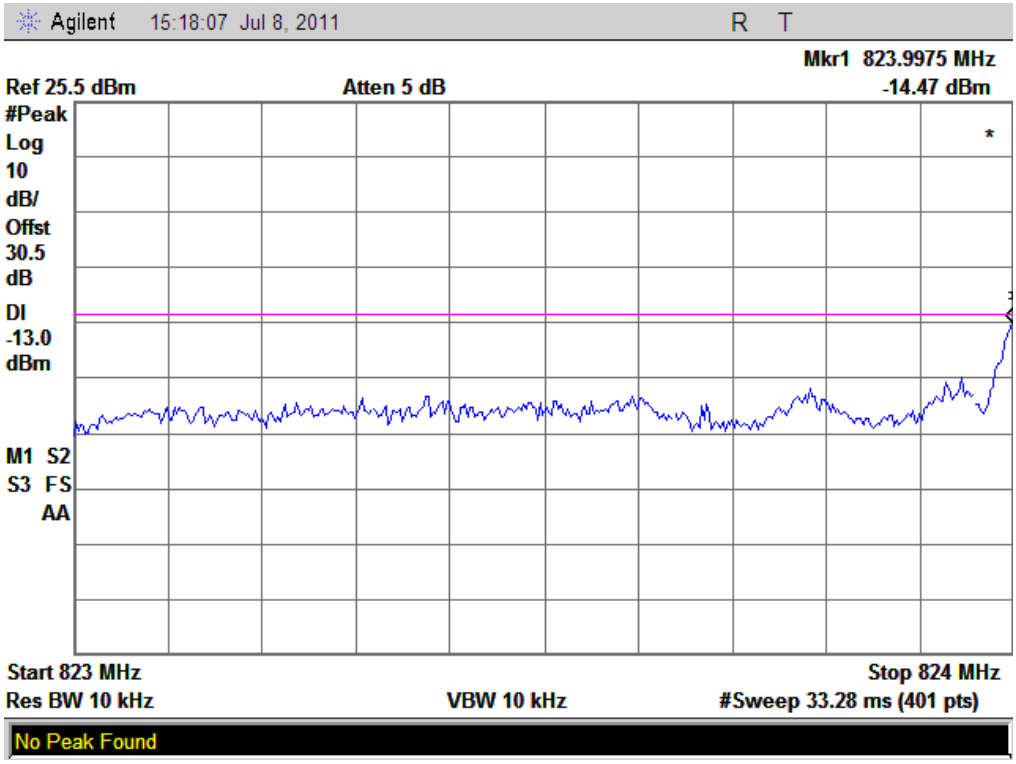
2.5.3 Test Result

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

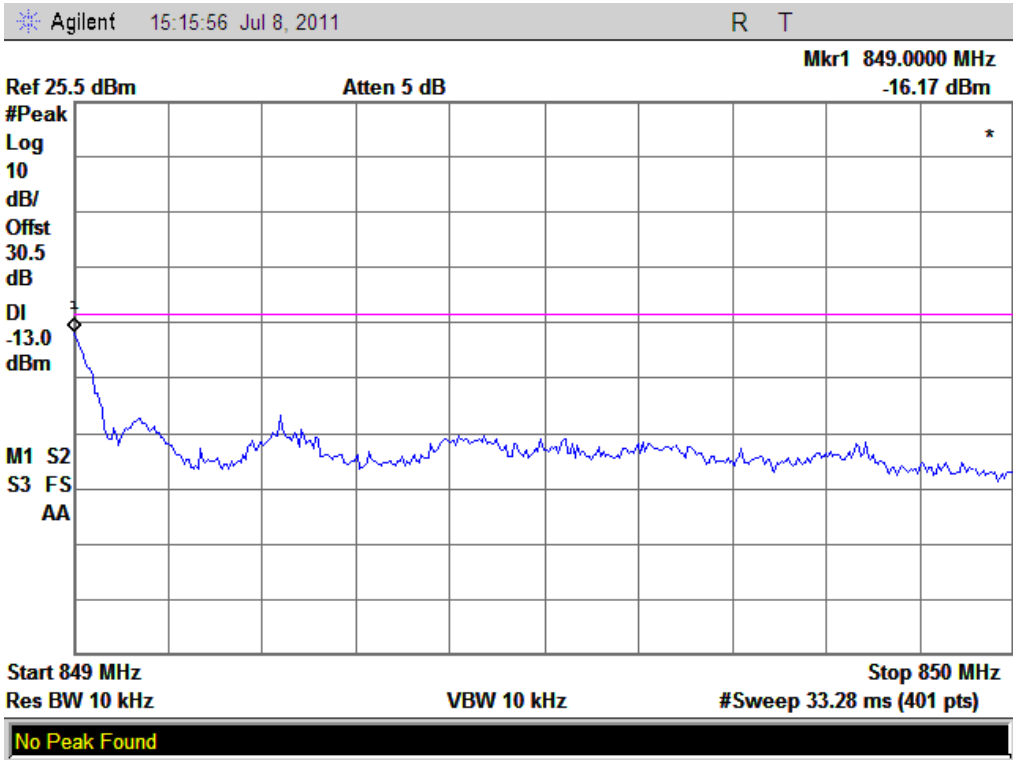
1. Test Verdict:

Band	Channel	Frequency (MHz)	Measured Max. Band Edge Emission (dBm)	Refer to Plot	Limit (dBm)	Verdict
CDMA 800MHz	1013	824.7	-14.47	Plat A	-13	PASS
	777	848.31	-16.17	Plot B		PASS
CDMA 1900MHz	25	1851.2	-18.4	Plat C	-13	PASS
	1175	1908.8	-19.26	Plot D		PASS
CDMA 800MHz	1013	824.7	-15.01	Plat E	-13	PASS
	777	848.31	-15.83	Plot F		PASS
CDMA 1900MHz	25	1851.2	-18.21	Plat G	-13	PASS
	1175	1908.8	-18.35	Plot H		PASS

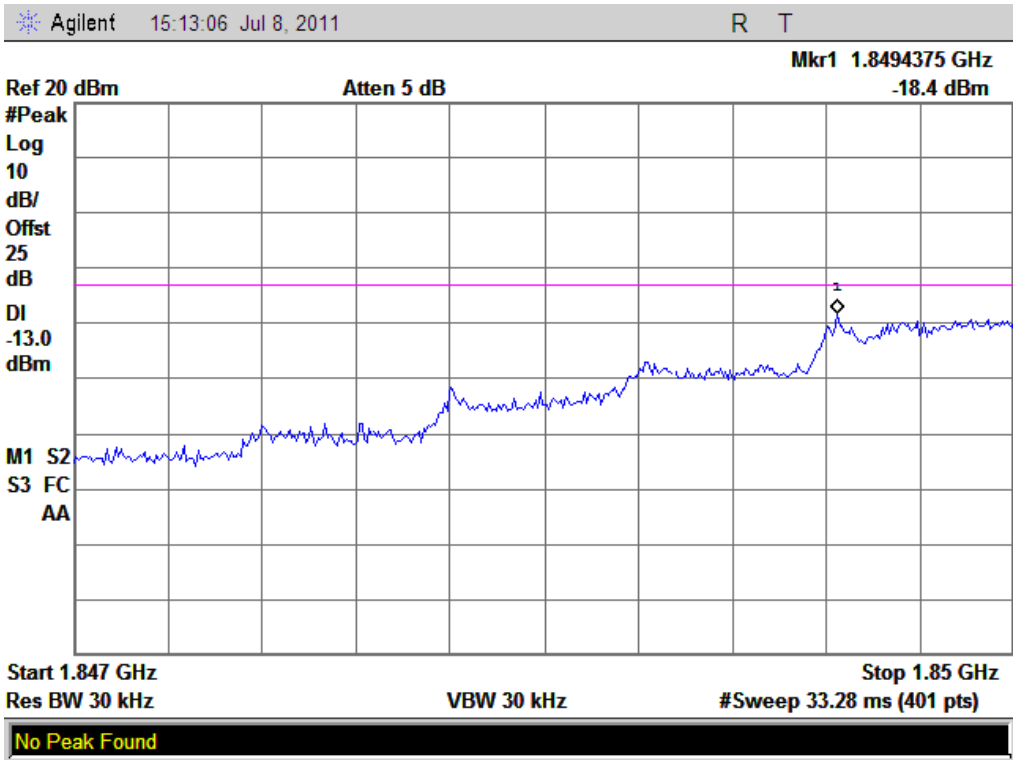
2. Test Plots:



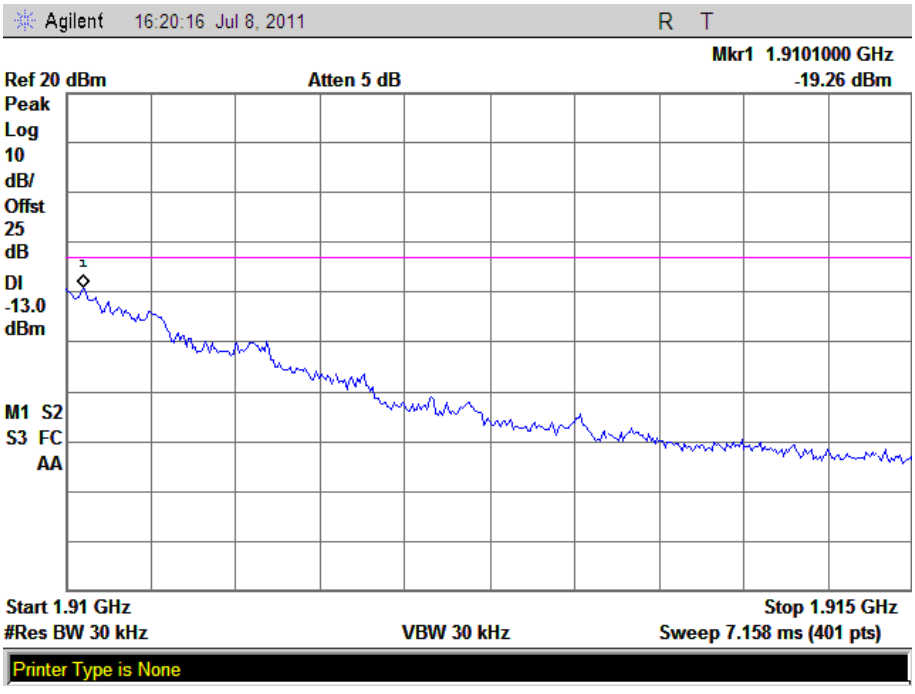
(Plot A: CDMA 800MHz Channel = 1013)



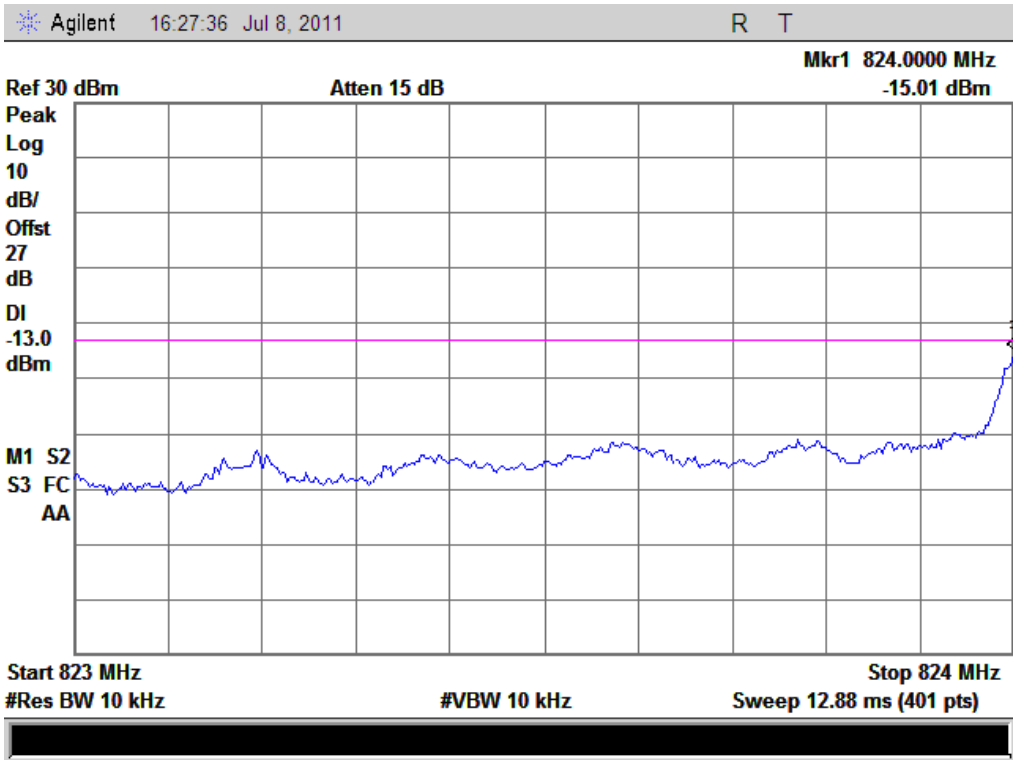
(Plot B: CDMA 800MHz Channel = 777)



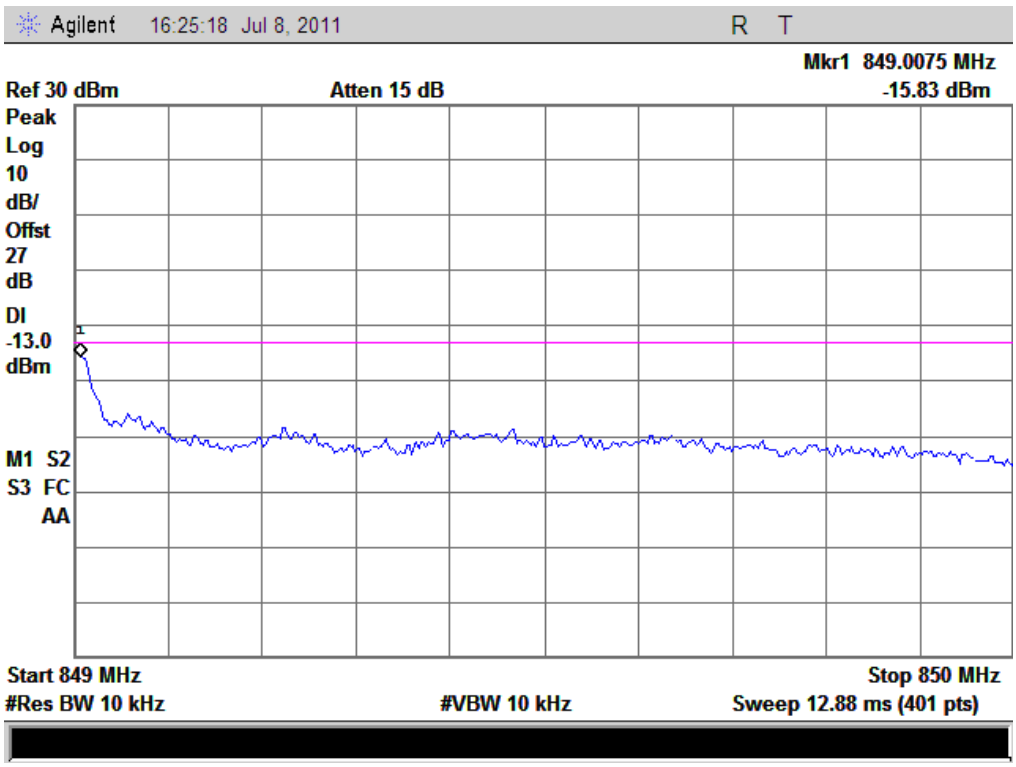
(Plot C: CDMA 1900MHz Channel = 25)



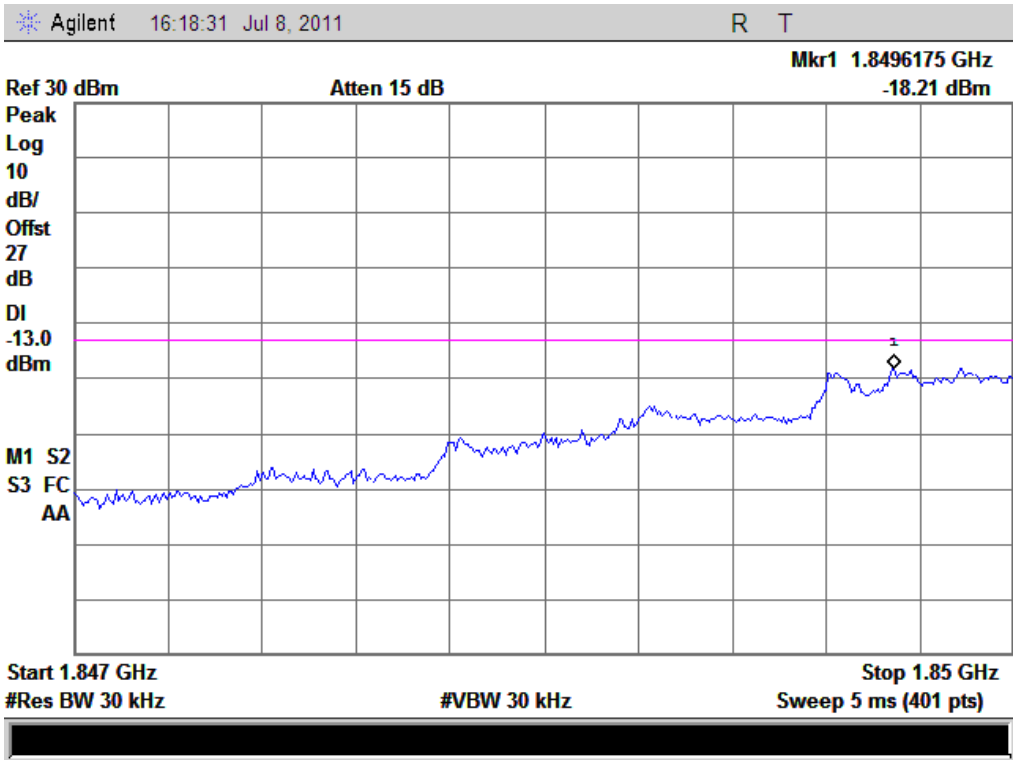
(Plot D: CDMA 1900MHz Channel = 1175)



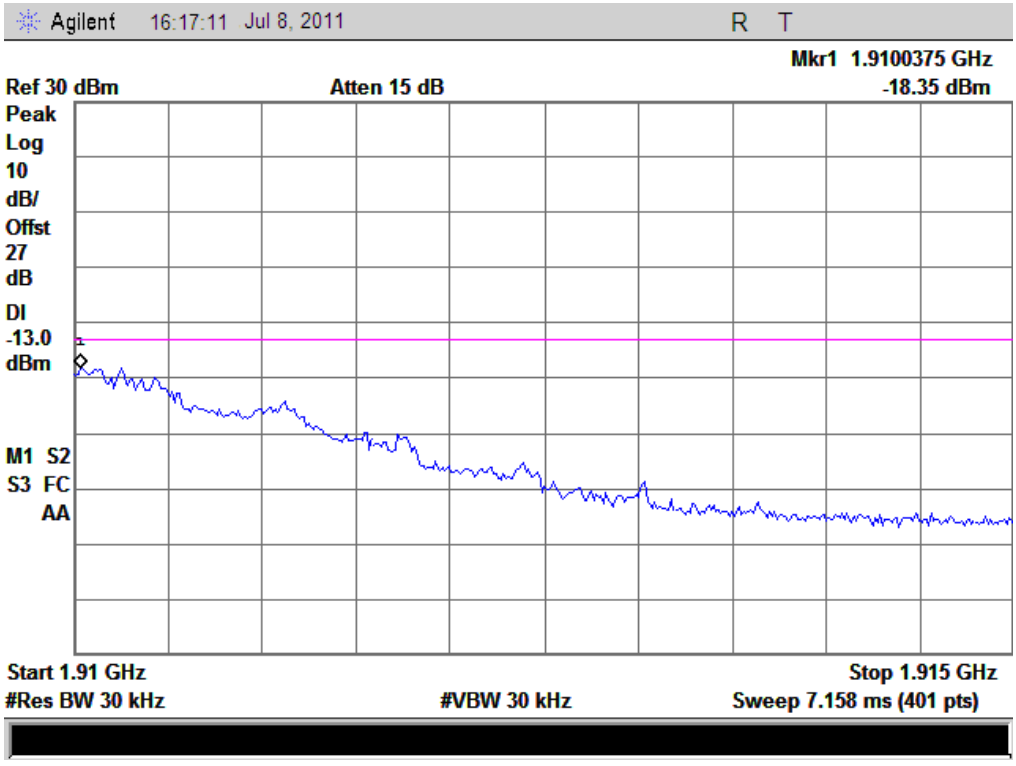
(Plot E: CDMA-EVDO 800MHz Channel = 1013)



(Plot F: CDMA-EVDO 800MHz Channel = 777)



(Plot G: CDMA-EVDO 1900MHz Channel = 25)



(Plot H: CDMA-EVDO 1900MHz Channel = 1175)

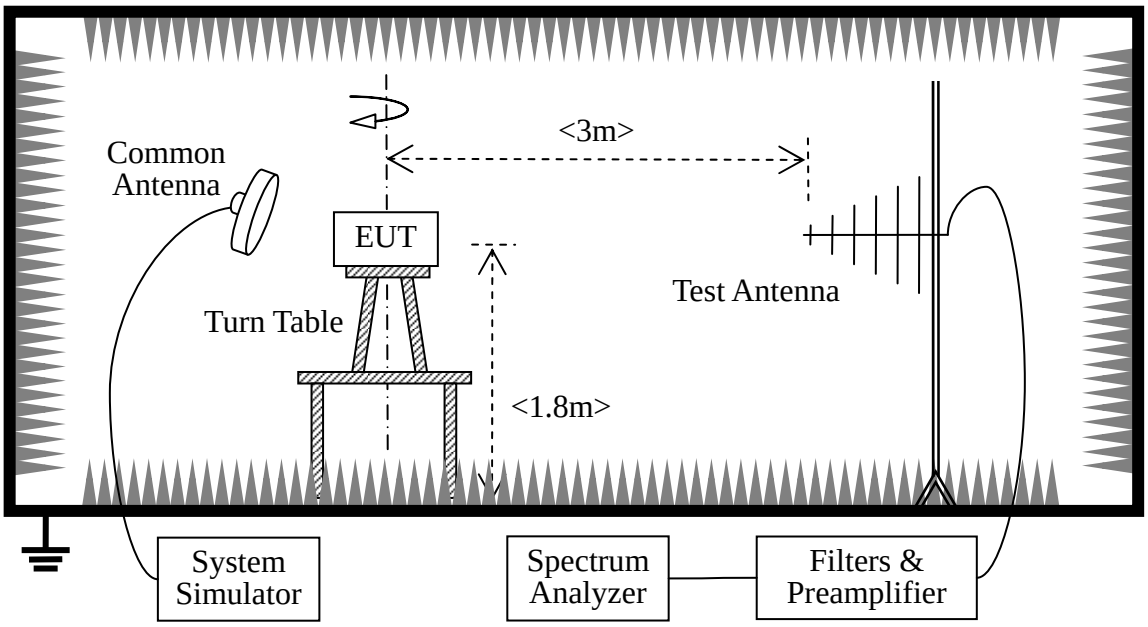
2.6 Transmitter Radiated Power (EIRP/ERP)

2.6.1 Requirement

According to FCC section 22.913, the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7Watts, and FCC section 24.232, the broadband PCS mobile station is limited to 2Watts e.i.r.p. peak power.

2.6.2 Test Description

1. Test Setup:



1. 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.
2. The low, middle and the high channels are selected to perform tests respectively.
3. 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.

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.

2. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date
System Simulator	Agilent	E5515C	GB43130131	2011.05
Spectrum Analyzer	Agilent	E7405A	US44210471	2011.05
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2011.05
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2011.05
Test Antenna - Horn	Schwarzbeck	BBHA 9120C	9120C-384	2011.05

2.6.3 Test Result

The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested.

The substitution corrections are obtained as described below:

$A_{SUBST} = P_{SUBST\_TX} - P_{SUBST\_RX} - L_{SUBST\_CABLES} + G_{SUBST\_TX\_ANT}$

$A_{TOT} = L_{CABLES} + A_{SUBST}$

Where A_{SUBST} is the final substitution correction including receive antenna gain.

P_{SUBST_TX} is signal generator level,

P_{SUBST_RX} is receiver level,

L_{SUBST_CABLES} is cable losses including TX cable,

$G_{SUBST\_TX\_ANT}$ is substitution antenna gain.

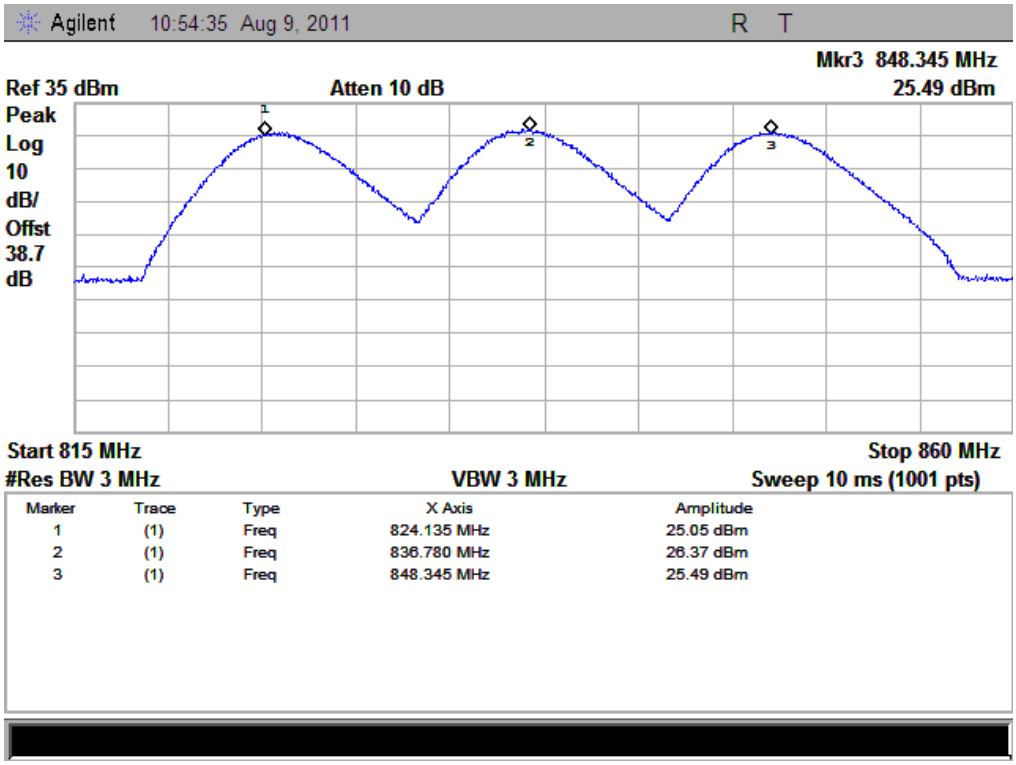
A_{TOT} is total correction factor including cable loss and substitution correction

During the test, the data of A_{TOT} was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of A_{TOT}.

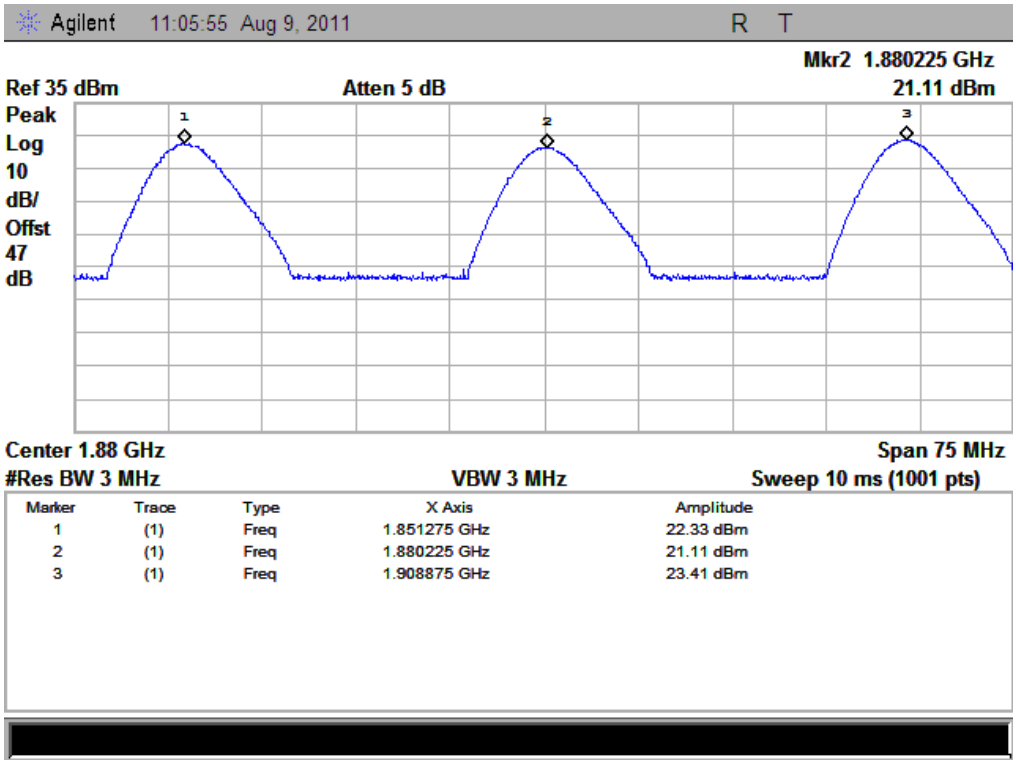
1. Test Verdict:

No.	Channel	Frequency (MHz)	Measured ERP		Limit ERP	
			dBm	W	dBm	W
CDMA 800MHz	1013	824.7	25.05	0.32	38.5	7
	384	836.52	26.37	0.43		
	777	848.31	25.48	0.35		
CDMA 1900MHz	25	1850.2	22.33	0.17	33	2
	600	1880.0	21.11	0.13		
	1175	1909.8	23.41	0.22		
EVDO 800MHz	1013	824.7	26.02	0.40	38.5	7
	384	836.52	27.1	0.51		
	777	848.31	25.73	0.37		
EVDO 1900MHz	25	1850.2	22.86	0.19	33	2
	600	1880.0	21.34	0.13		
	1175	1909.8	24.08	0.26		

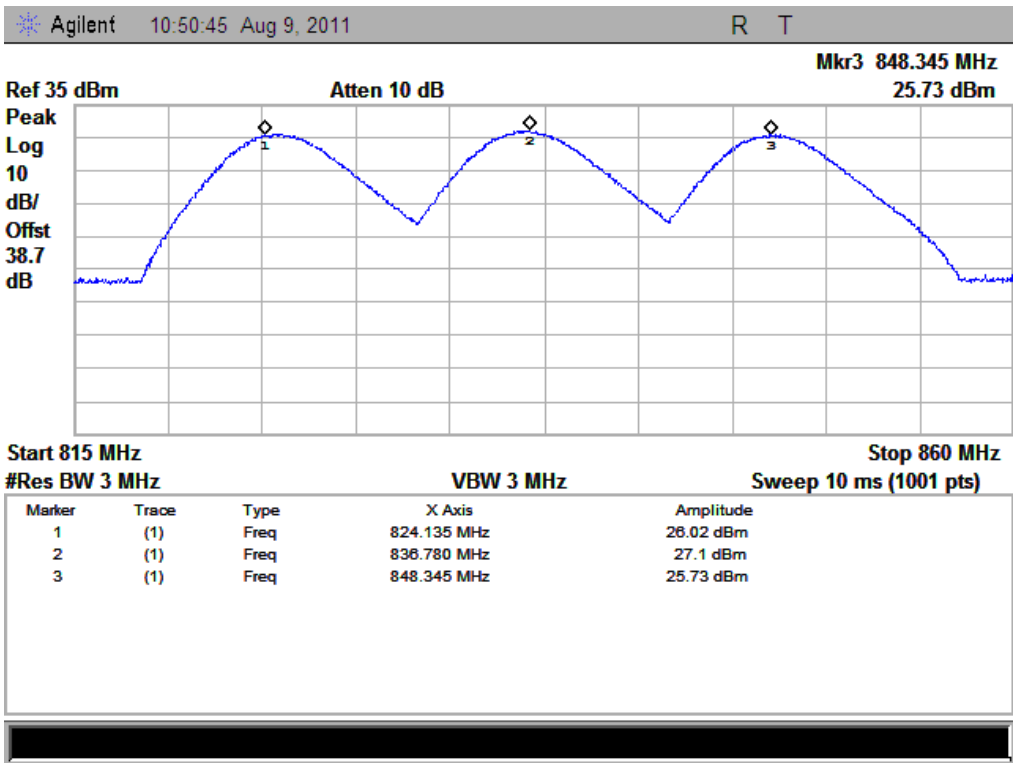
2. Test Plots:



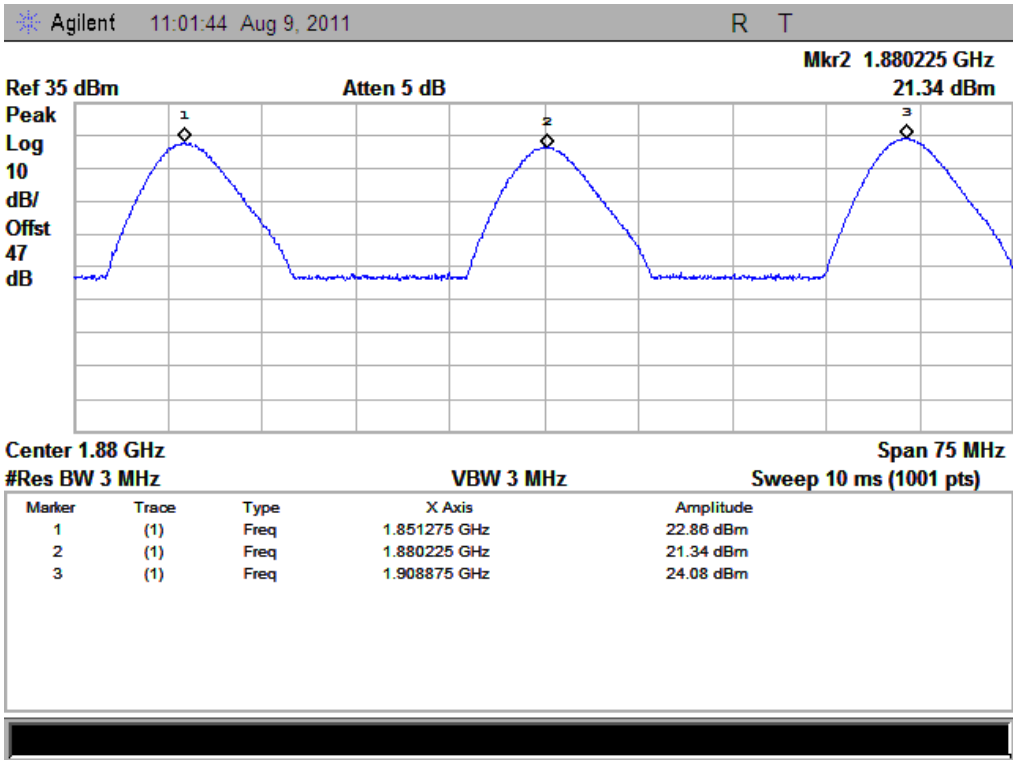
(Plot A: CDMA 800MHz Channel = 1013、384、777)



(Plot B: CDMA 1900MHz Channel = 25、600、1175)



(Plot C: CDMA -EVDO800MHz Channel = 1013、384、777)



(Plot D: CDMA-EVDO 800MHz Channel = 25、600、1175))

2.7 Radiated Out of Band Emissions

2.7.1 Requirement

According to FCC section 22.917(a), section 24.238(a) and section 27.53(h), 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.

2.7.2 Test Description

See section 2.6.2 of this report.

Note: when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

2.7.3 Test Result

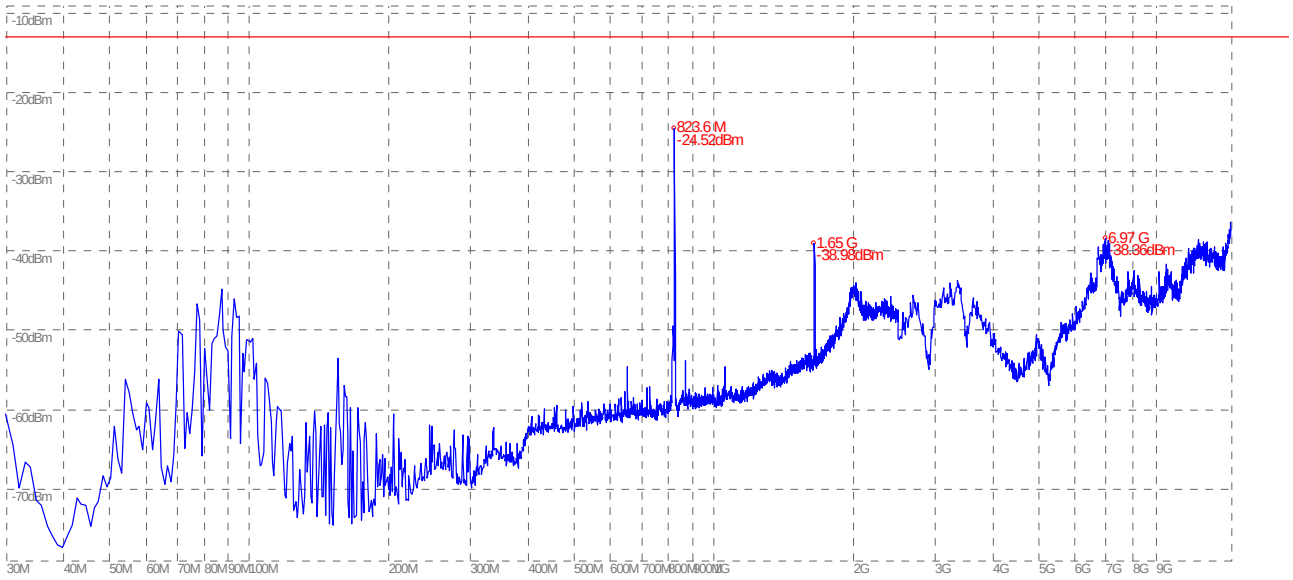
The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested to verify the out of band emissions.

1. Test Verdict:

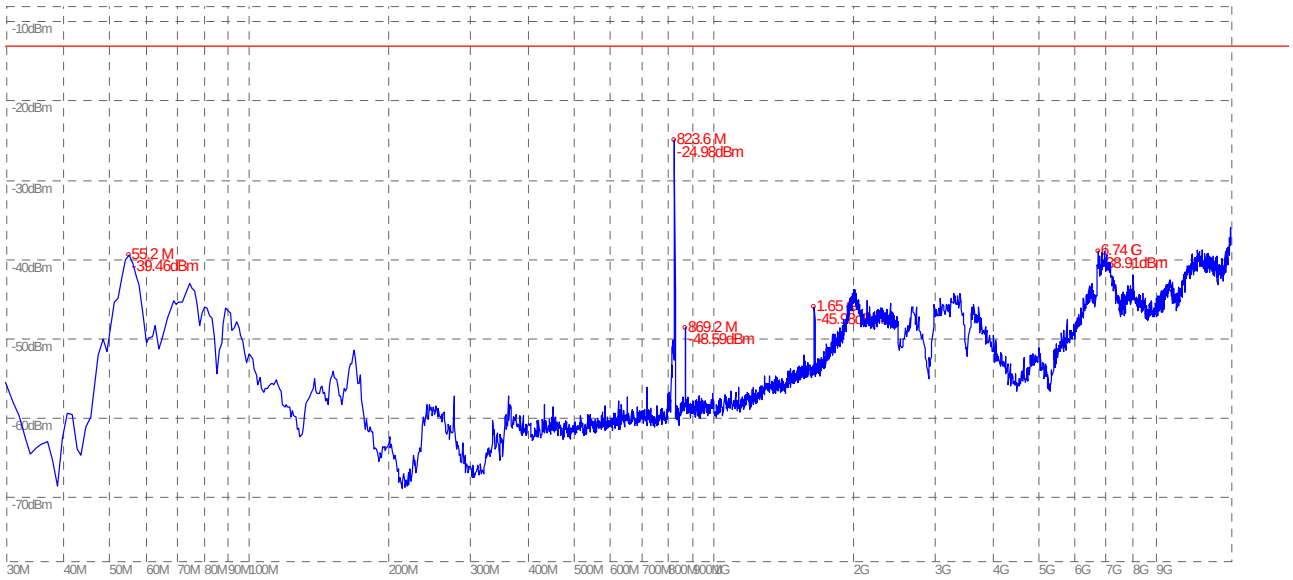
Band	Channel	Frequency (MHz)	Measured Max. Spurious Emission (dBm)		Refer to Plot	Limit (dBm)	Verdict
			Test Antenna Horizontal	Test Antenna Vertical			
CDMA 800MHz	1013	1649	< -25	< -25	Plot A.1/A.2	-13	PASS
	384	1673	< -25	< -25	Plot B.1/B.2		PASS
	777	1696	< -25	< -25	Plot C.1/C.2		PASS
CDMA 1900MHz	25	3700	< -25	< -25	Plot D.1/D.2	-13	PASS
	600	3760	< -25	< -25	Plot E.1/E.2		PASS
	1175	1909.8	< -25	< -25	Plot F.1/F.2		PASS
EVDO 800MHz	1013	1649	< -25	< -25	Plot G.1/G.2	-13	PASS
	384	1673	< -25	< -25	Plot H.1/H.2		PASS
	777	1696	< -25	< -25	Plot I.1/I.2		PASS
EVDO 1900MHz	25	3700	< -25	< -25	Plot J.1/J.2	-13	PASS
	600	3760	< -25	< -25	Plot K.1/K.2		PASS
	1175	1909.8	< -25	< -25	Plot L.1/L.2		PASS

2. Test Plots for the Whole Measurement Frequency Range:

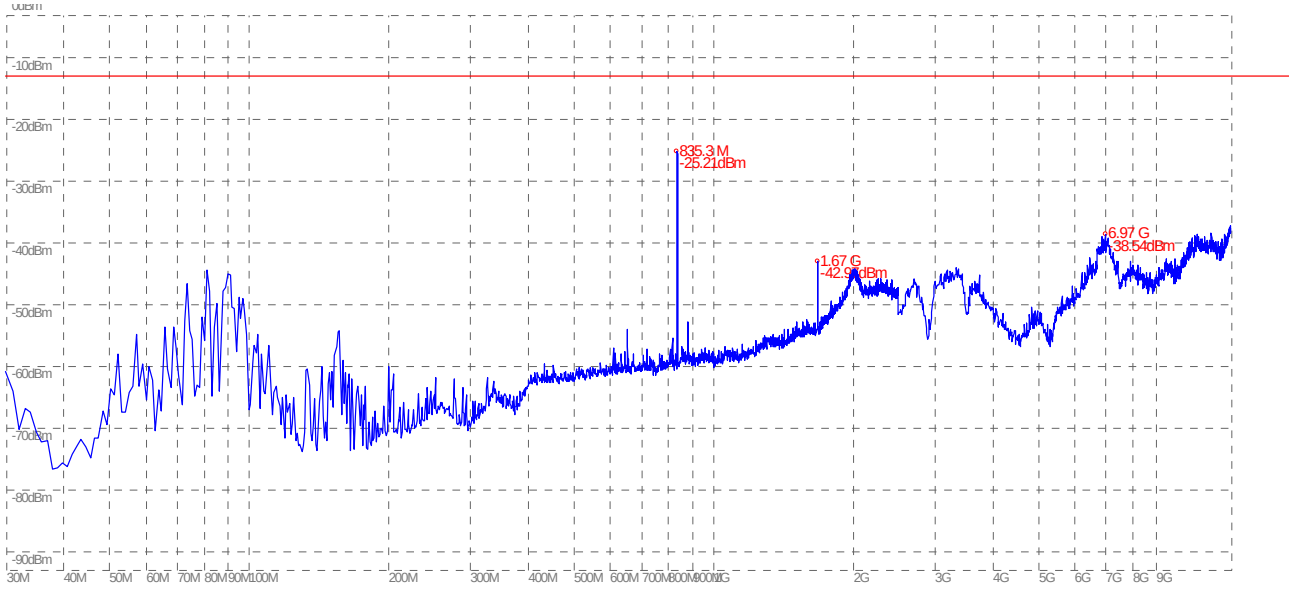
Note: the power of the EUT transmitting frequency should be ignored.



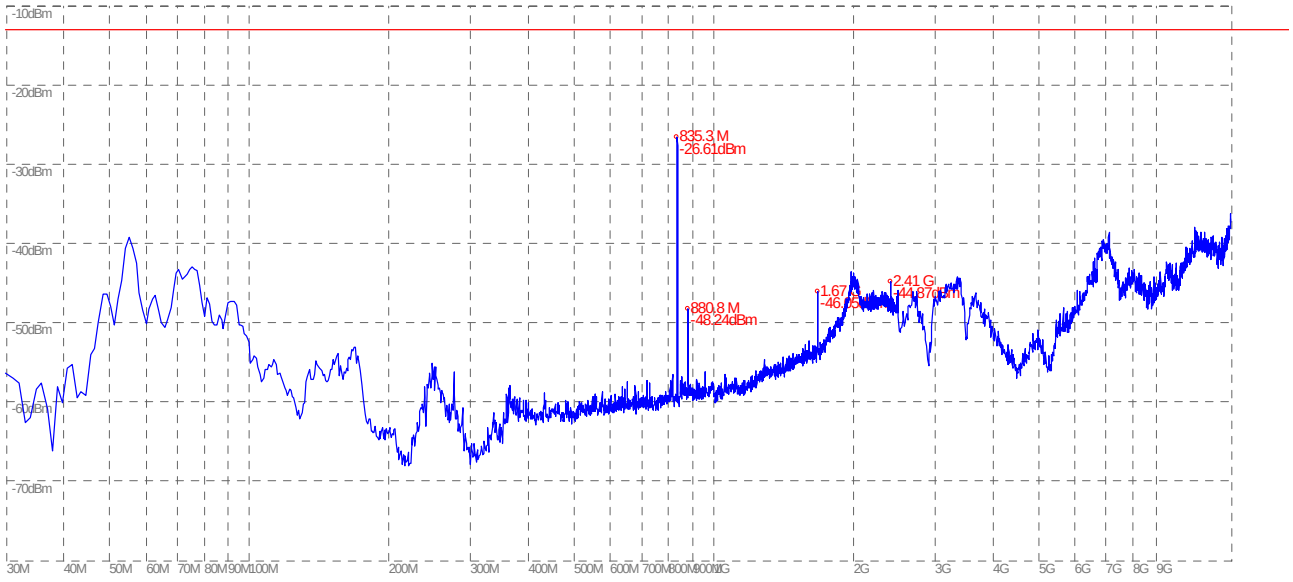
(Plot A.1: CDMA 800MHz Channel = 1013, Test Antenna Horizontal)



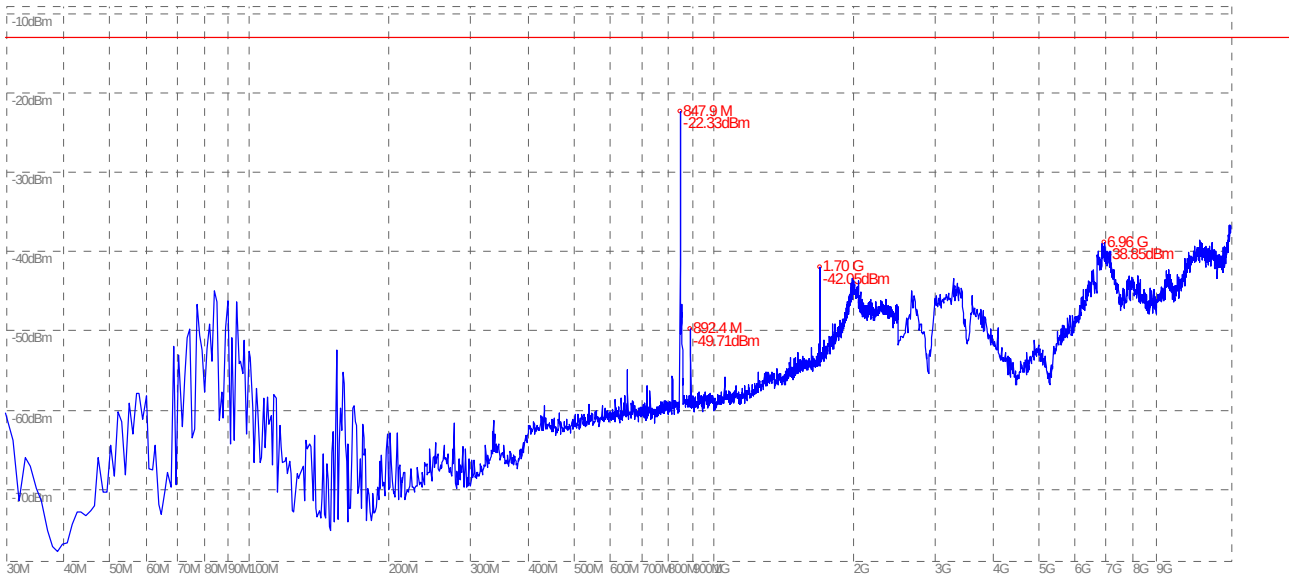
(Plot A.2: CDMA 800MHz Channel = 1013, Test Antenna Vertical)



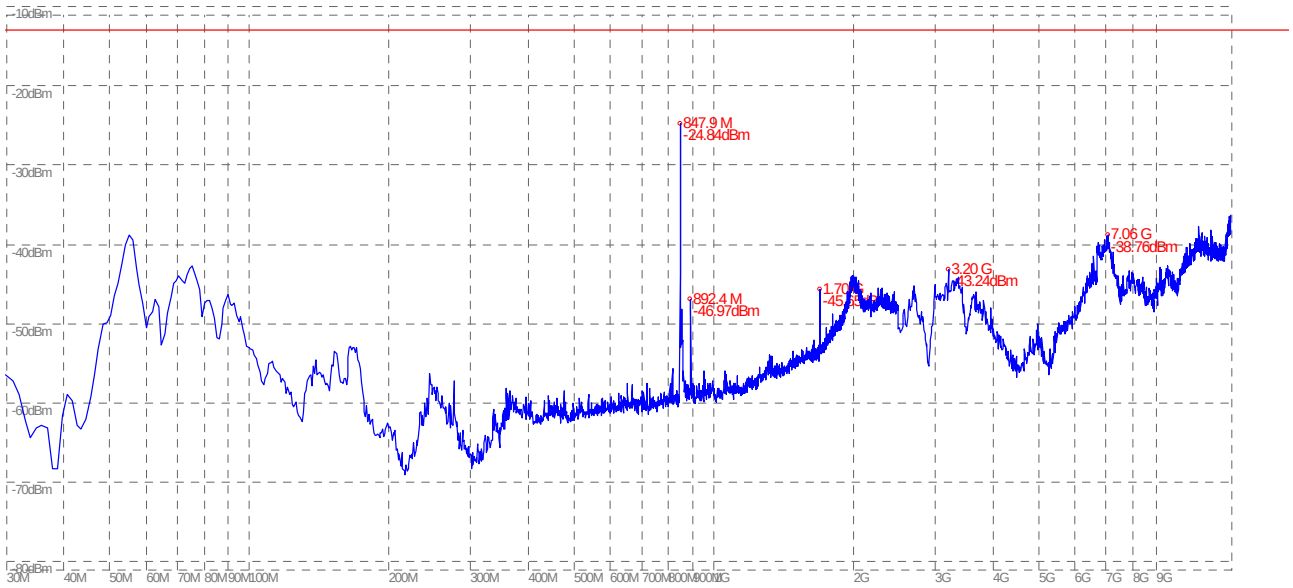
(Plot B.1: CDMA 800MHz Channel = 384, Test Antenna Horizontal)



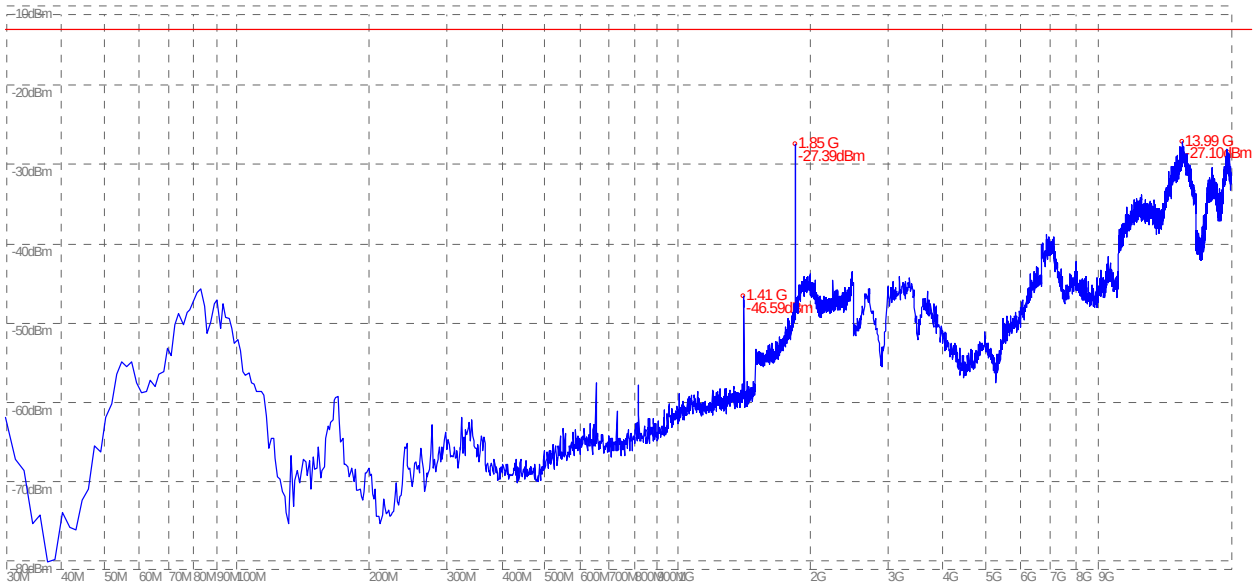
(Plot B.2: CDMA 800MHz Channel = 384, Test Antenna Vertical)



(Plot C.1: CDMA 800MHz Channel = 777, Test Antenna Horizontal)

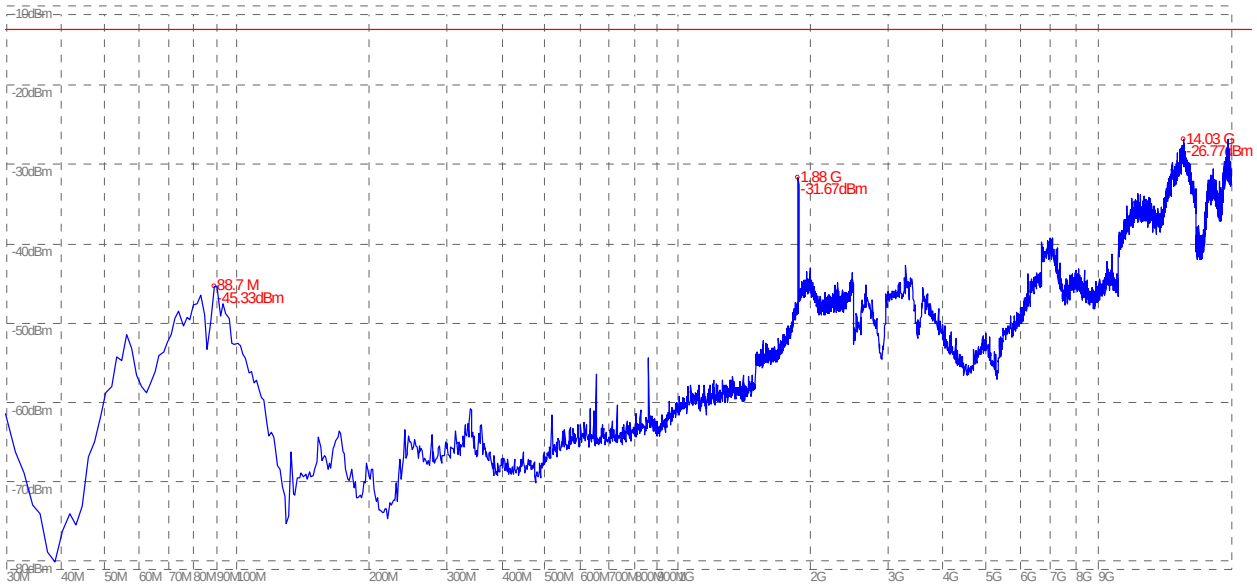


(Plot C.2: CDMA 800MHz Channel = 777, Test Antenna Vertical)

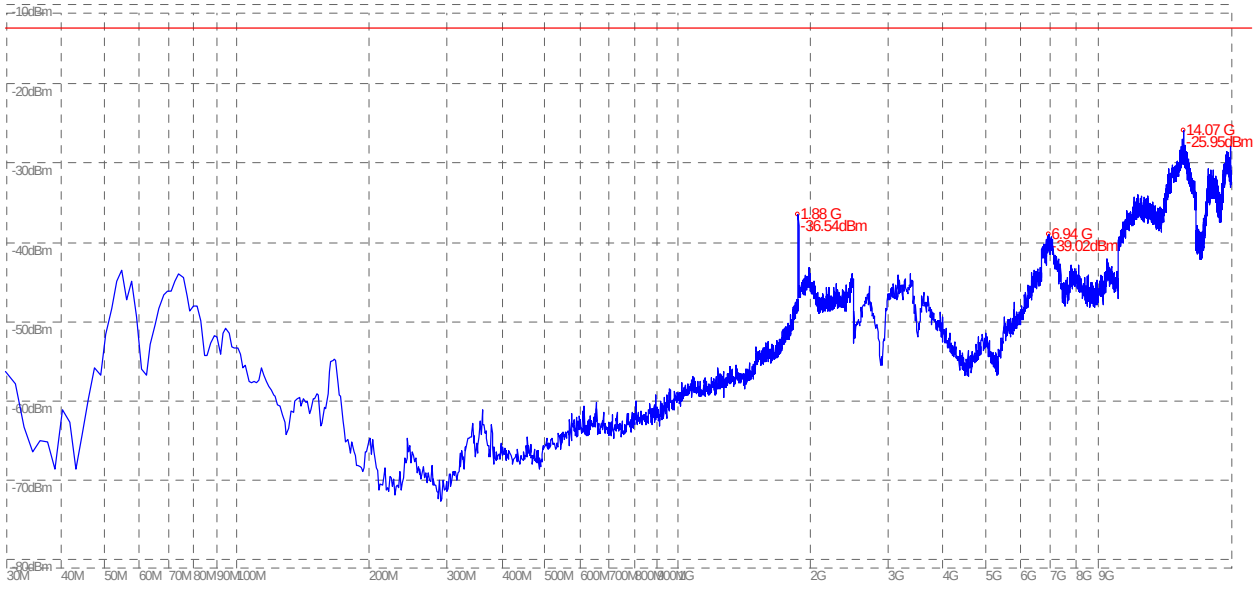


(Plot D.1: CDMA 1900MHz Channel = 25, Test Antenna Horizontal)

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



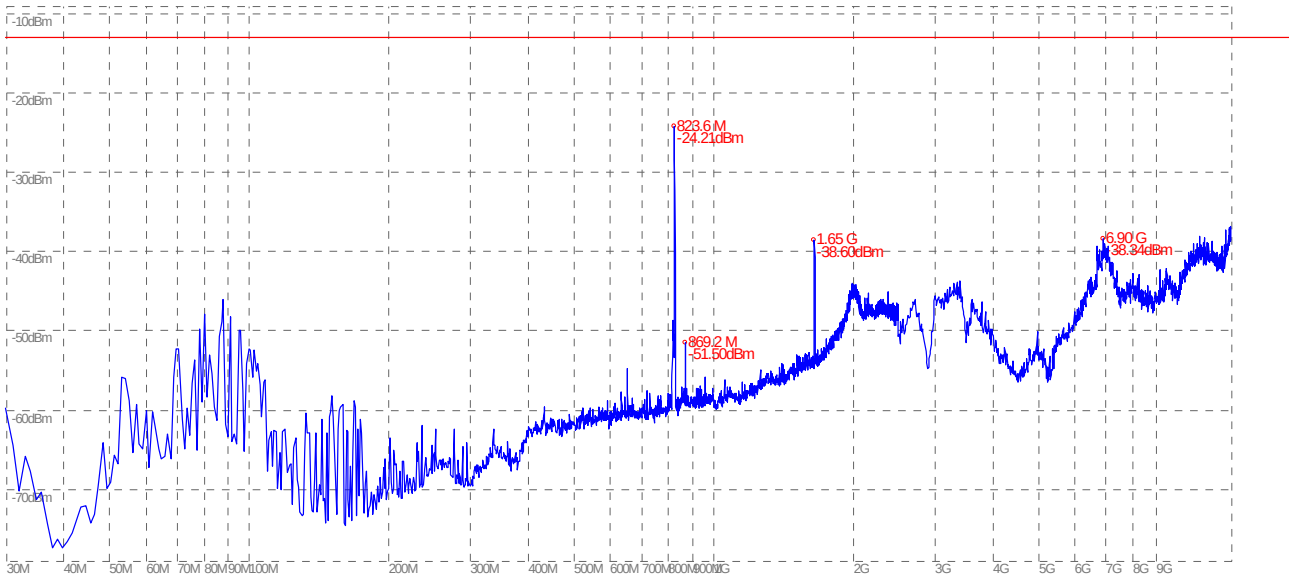
(Plot E.1: CDMA 1900MHz Channel = 600, Test Antenna Horizontal)



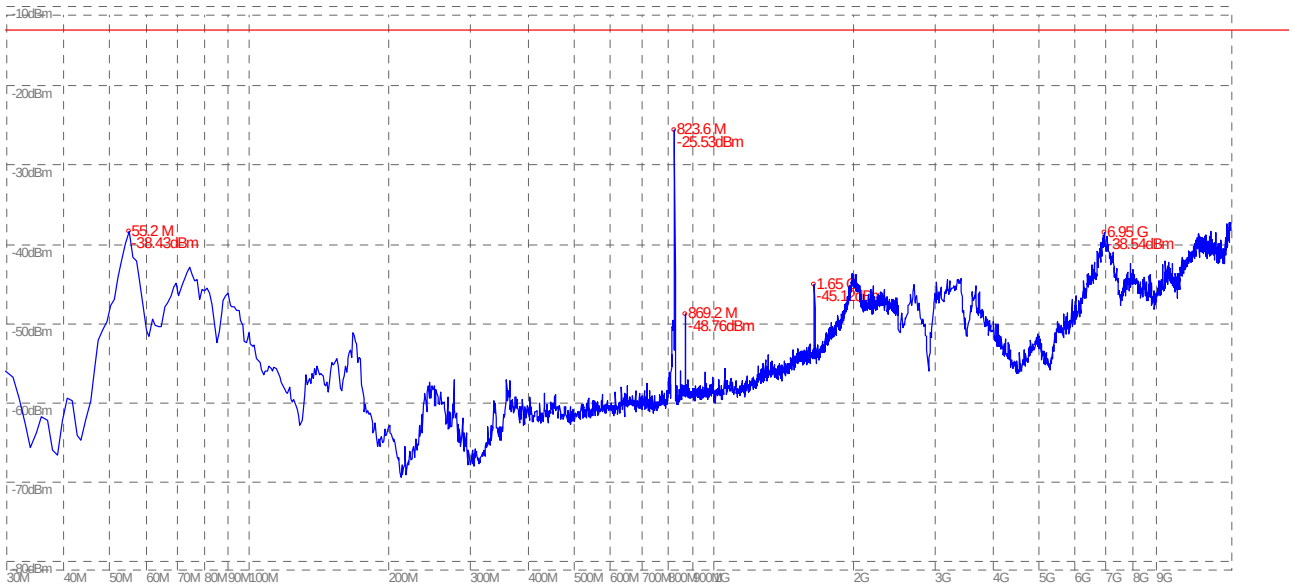
(Plot E.2: CDMA 1900MHz Channel = 600, Test Antenna Vertical)

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

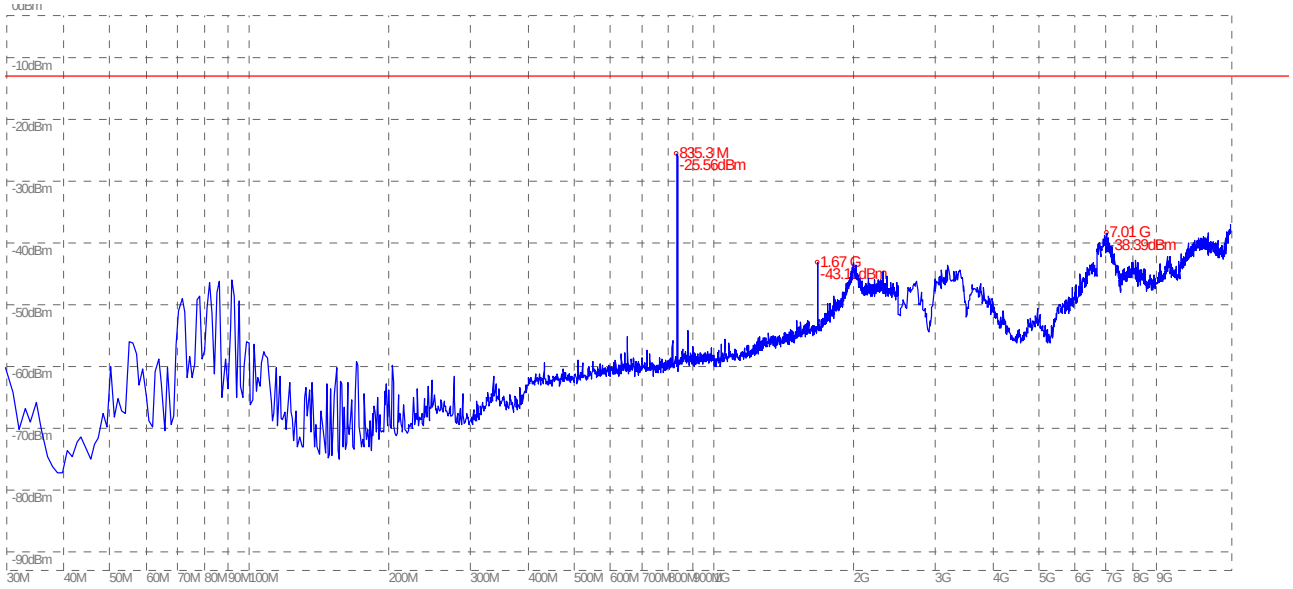
(Plot F.2: CDMA 1900MHz Channel = 1175, Test Antenna Vertical)



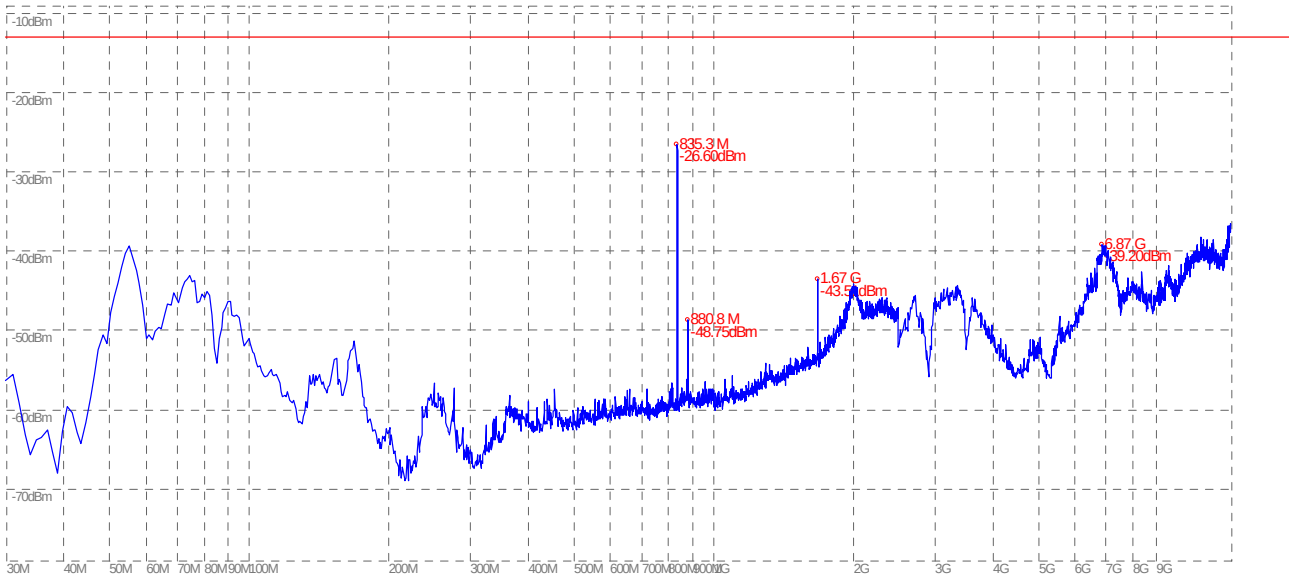
(Plot G.1: CDMA-EVDO 800MHz Channel = 1013, Test Antenna Horizontal)



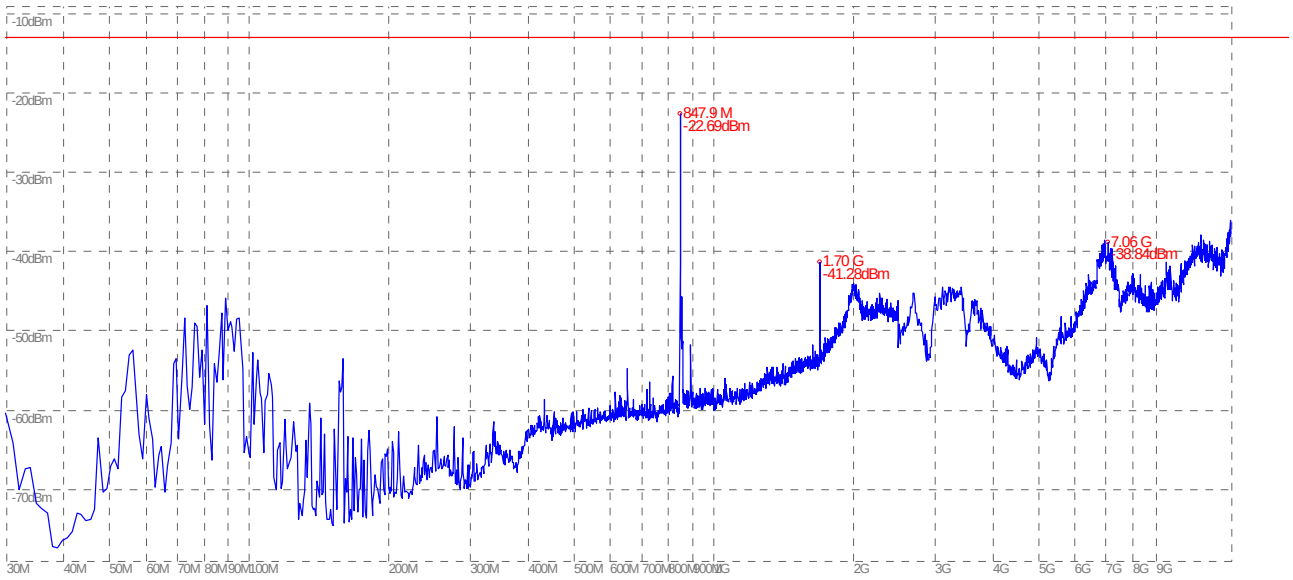
(Plot G.2: CDMA-EVDO 800MHz Channel = 1013, Test Antenna Vertical)



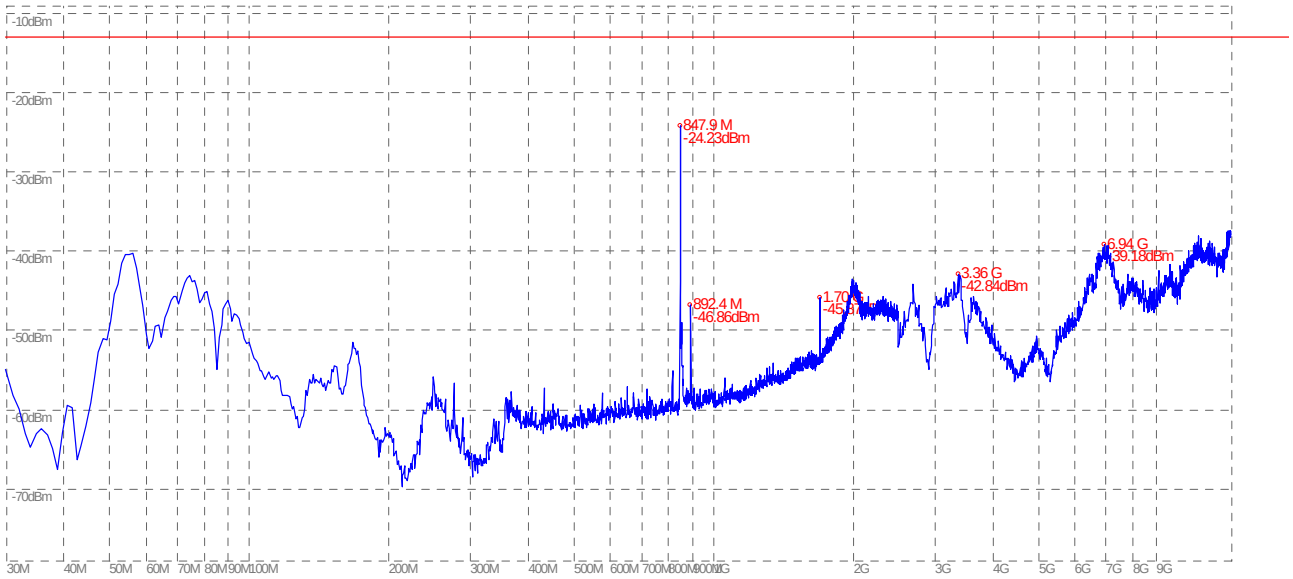
(Plot H.1: CDMA-EVDO 800MHz Channel = 384, Test Antenna Horizontal)



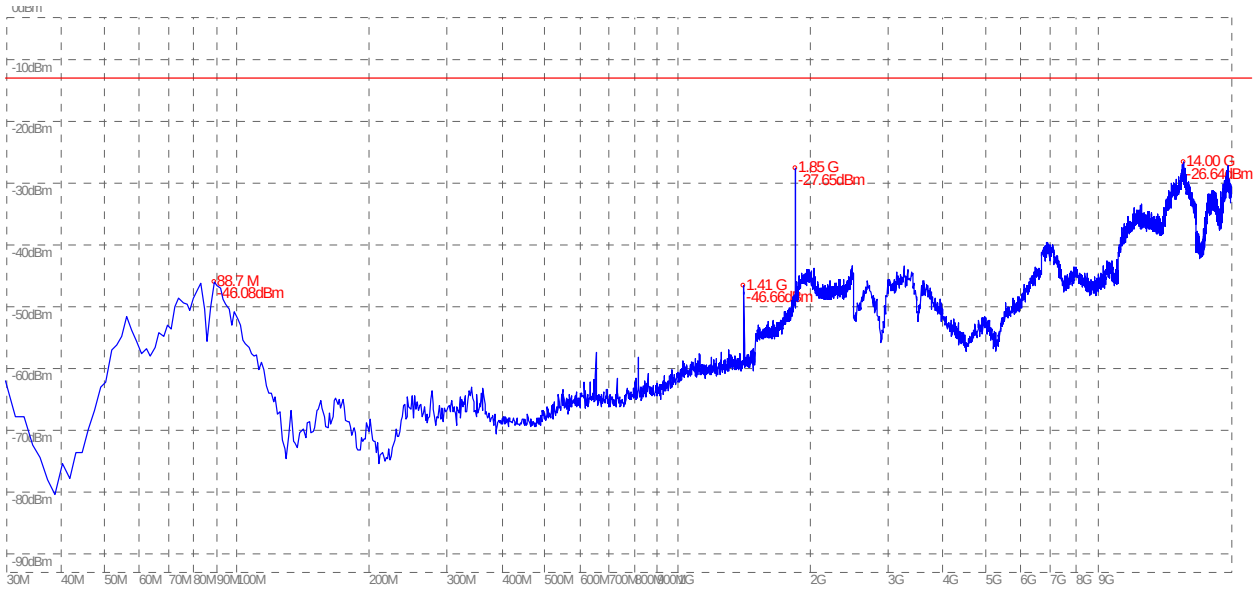
(Plot H.2: CDMA-EVDO 800MHz Channel = 384, Test Antenna Vertical)



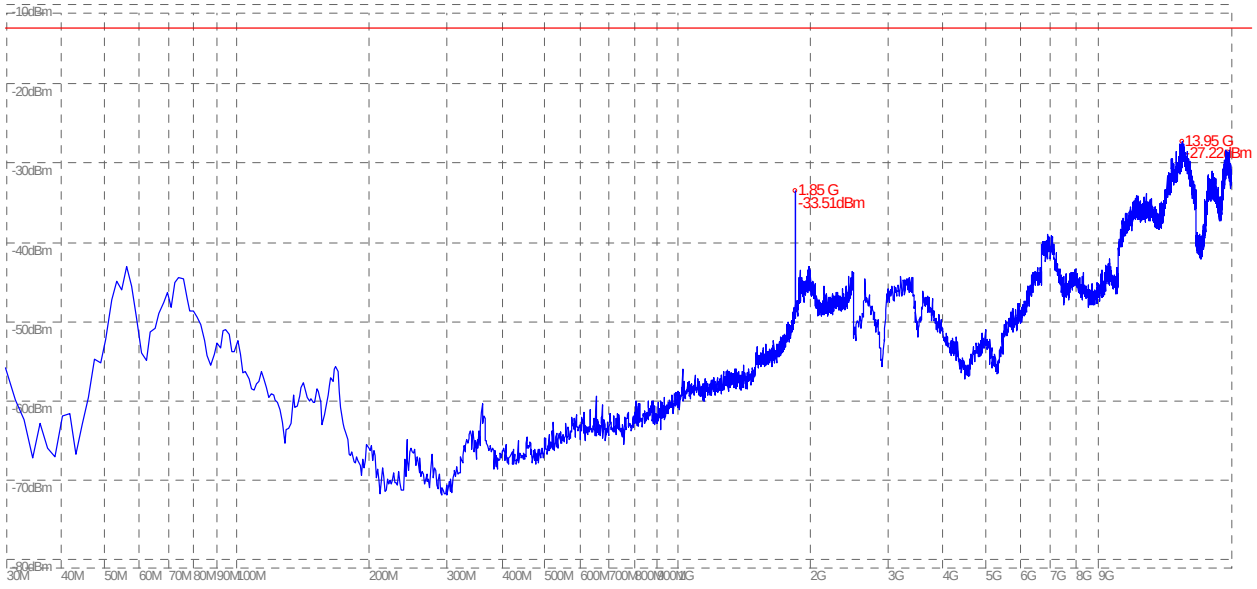
(Plot I.1: CDMA-EVDO 800MHz Channel = 777, Test Antenna Horizontal)



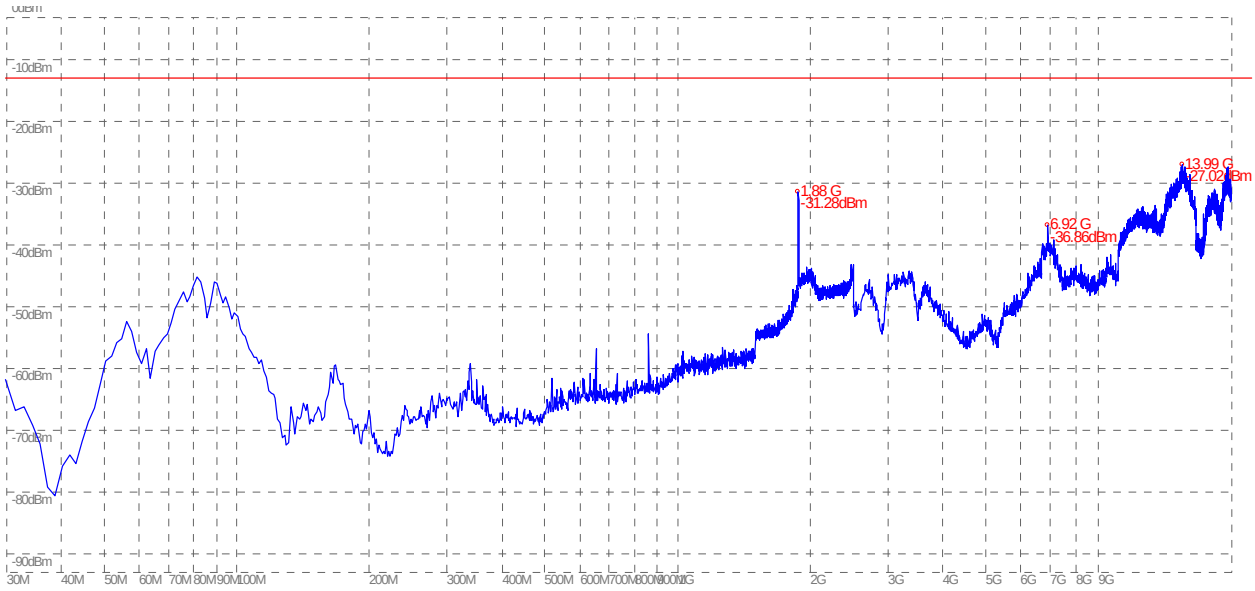
(Plot I.2: CDMA-EVDO 800MHz Channel = 777, Test Antenna Vertical)



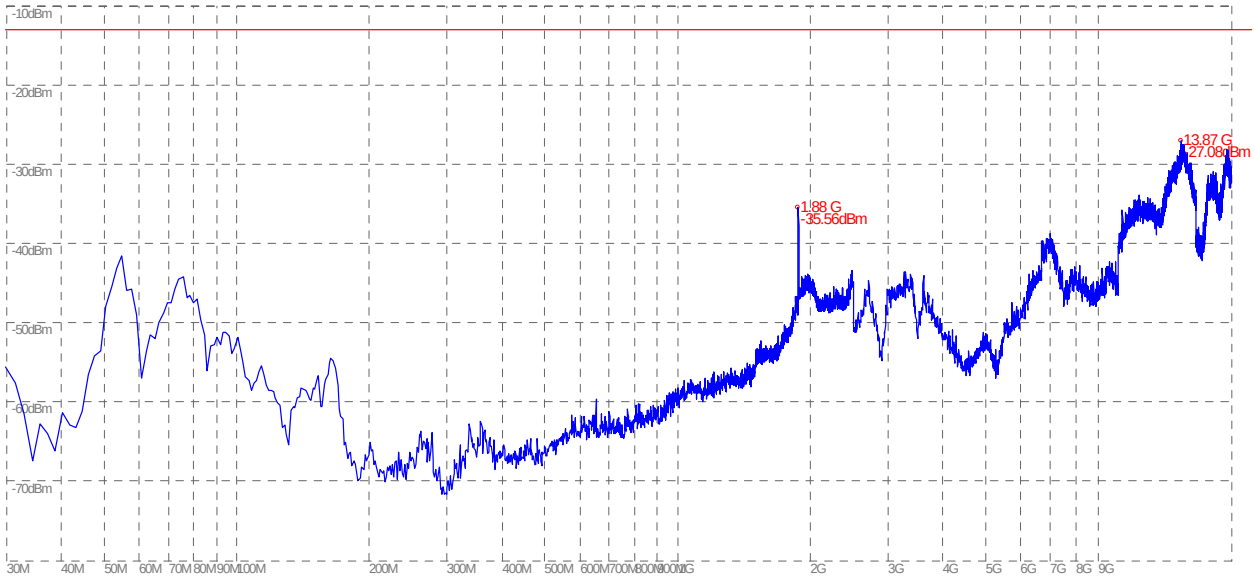
(Plot J.1: CDMA-EVDO 1900MHz Channel = 25, Test Antenna Horizontal)



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

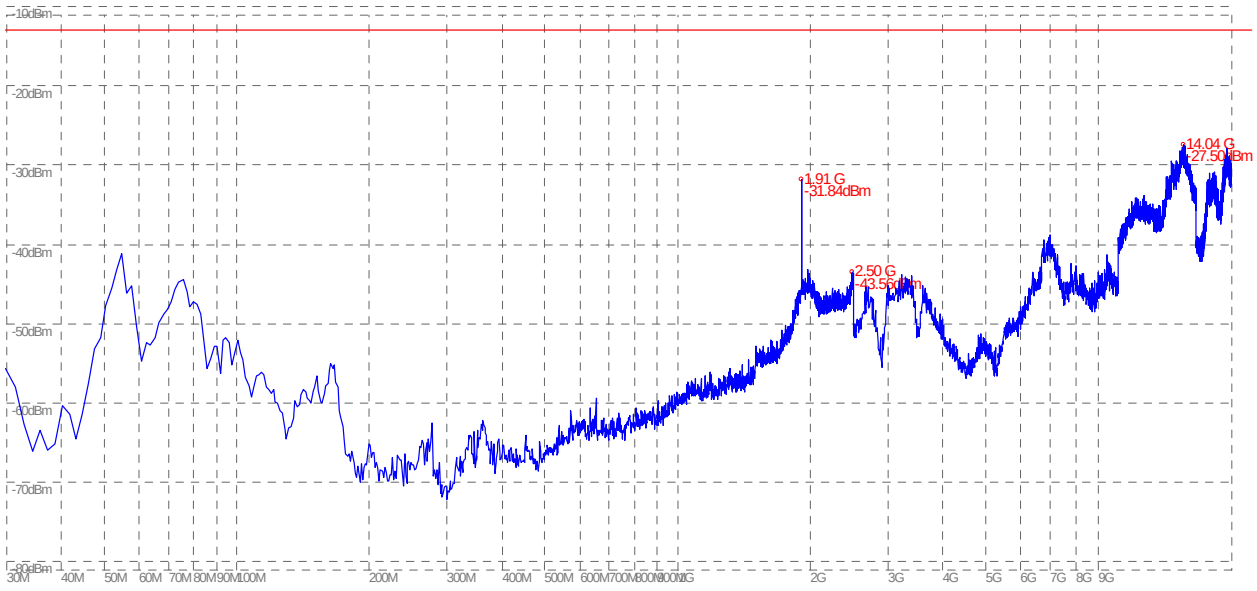


(Plot K.1: CDMA-EVDO 1900MHz Channel = 600, Test Antenna Horizontal)



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

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



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

** END OF REPORT **