



Compliance Testing, LLC

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

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Test Report

Prepared for: Cellphone Mate Inc

Model: M2M-A

Description: Single Band Direct Connect

FCC ID: RSNM2M-A

To

FCC Part 20

Date of Issue: June 27, 2014

On the behalf of the applicant:

Cellphone-Mate Inc.
48346 Milmont Drive
Fremont, CA 94538

To the attention of:

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Ph: (510) 770-0469
Email: hzhan@cellphone-mate.com

Prepared By
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Project No: p1440007

Mike Graffeo
Project Test Engineer

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All results contained herein relate only to the sample tested.

Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	5/9/14	Mike Graffeo	Original Document
2.0	6/6/14	Mike Graffeo	Updated Variable Gain test data page 29
3.0	6/27/14	Mike Graffeo	Updated test result summary table to show compliance to part 20 rules for noise limit, variable noise limit, and gain limit.

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ILAC / A2LA

Compliance Testing, LLC, has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communiqué dated January 2009).

The tests results contained within this test report all fall within our scope of accreditation, unless noted below.

Please refer to <http://www.compliancetesting.com/labscope.html> for current scope of accreditation.

Testing Certificate Number: **2152.01**



FCC Site Reg. #349717

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

Test and Measurement Data

Subpart

2.1033(c)(14):

All tests and measurement data shown were performed in accordance with FCC Rules and Regulations, Part 2, Subpart J and the following individual Parts: 20.21 in conjunction with latest version of KDB 935210.

Standard Test Conditions and Engineering Practices

Except as noted herein, the following conditions and procedures were observed during the testing:

In accordance with ANSI/C63.4-2009, and unless otherwise indicated in the specific measurement results, the ambient temperature of the actual EUT was maintained within the range of 10° to 40°C (50° to 104°F), unless the particular equipment requirements specify testing over a different temperature range. Also, unless otherwise indicated, the humidity levels were in the range of 10% to 90% relative humidity.

Environmental Conditions		
Temp (°C)	Humidity (%)	Pressure (mbar)
24.9 – 31.0	33.5 – 63.0	943.0 – 985.5

Measurement results, unless otherwise noted, are worst-case measurements.

EUT Description

Model: M2M-A

Description: Single Band Direct Connect

Firmware: N/A

Software: N/A

Additional Information:

The EUT is a mobile bi-directional amplifier (direct connect) for the boosting of cellular phone signals and data communication devices.

The following frequency bands and emission types are utilized.

Frequency Band (MHz)	
Uplink	698 - 716
Downlink	728 - 746
Modulation Type	GSM, CDMA, EDGE, HSPA. EVDO, LTE

Emission Designators					
CDMA	HSPA	LTE	EVDO	EDGE	GSM
F9W	F9W	G7D	F9W	G7W	GXW

The modulation types and emission designators listed in the tables represent the modulations that the cell phone providers use for each frequency band. GSM, CDMA, and WCDMA represent all the modulation types (phase and amplitude or a combination thereof) utilized within the industry. EDGE, HSPA, LTE etc. are all protocols or multiplexing techniques using the base modulations.

EUT Operation during Tests

The EUT was in a normal operating condition.

Test Result Summary

Specification	Test Name	Pass, Fail, N/A	Comments
20.21(e)(3)	Authorized Frequency Band	Pass	
20.21(e)(8)(i)(B) 20.21(e)(8)(i)(C) 20.21(e)(8)(i)(D)	Maximum Power and Gain	Pass	
20.21(e)(8)(i)(F)	Intermodulation	Pass	
20.21(e)(8)(i)(E)	Out-of-Band Emissions	Pass	
2.1051 22.917(a) 24.238(a) 27.53(c) 27.53(e) 27.53(f) 27.53(g)	Conducted Spurious Emissions	Pass	
20.21(e)(8)(i)(A) 20.21(e)(8)(I)	Noise Limits	N/A	Per the test data on page 32, the noise is below -70dBm/MHz ("Transmit Power OFF Mode"), therefore is by default compliant to the Variable Uplink Noise Power Tests, Variable Downlink Noise Power Tests, and Noise timing tests. These tests are not applicable.
20.21(e)(8)(i)(I)	Uplink Inactivity	N/A	per rule 20.21e... if noise is less than -70dBm/MHz ("Transmit Power OFF Mode") then EUT will not shut off, therefore this test will not be performed
20.21(e)(8)(i)(C)(1) 20.21(e)(8)(i)(C)(H) 20.21(e)(8)(i)(C)(2)(iii)(mobile)	Variable Gain	Pass	
2.1049	Occupied Bandwidth	Pass	
20.21(e)(8)(ii)(A)	Oscillation Detection	Pass	
2.1053	Radiated Spurious	Pass	
20.21(e)(8)(i)(B)	Spectrum Block Filtering	N/A	This only applies to devices utilizing spectrum block filtering

Authorized Frequency Band

Name of Test:

Authorized Frequency Band

Engineer: Mike Graffeo

Test Equipment Utilized:

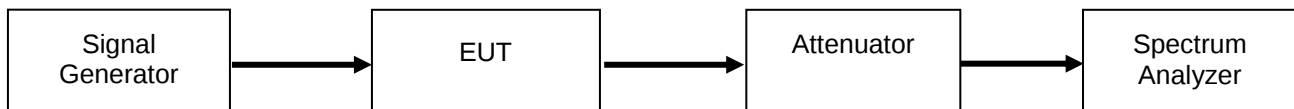
i00379 and i00405

Test Date: 5/8/14

Test Procedure

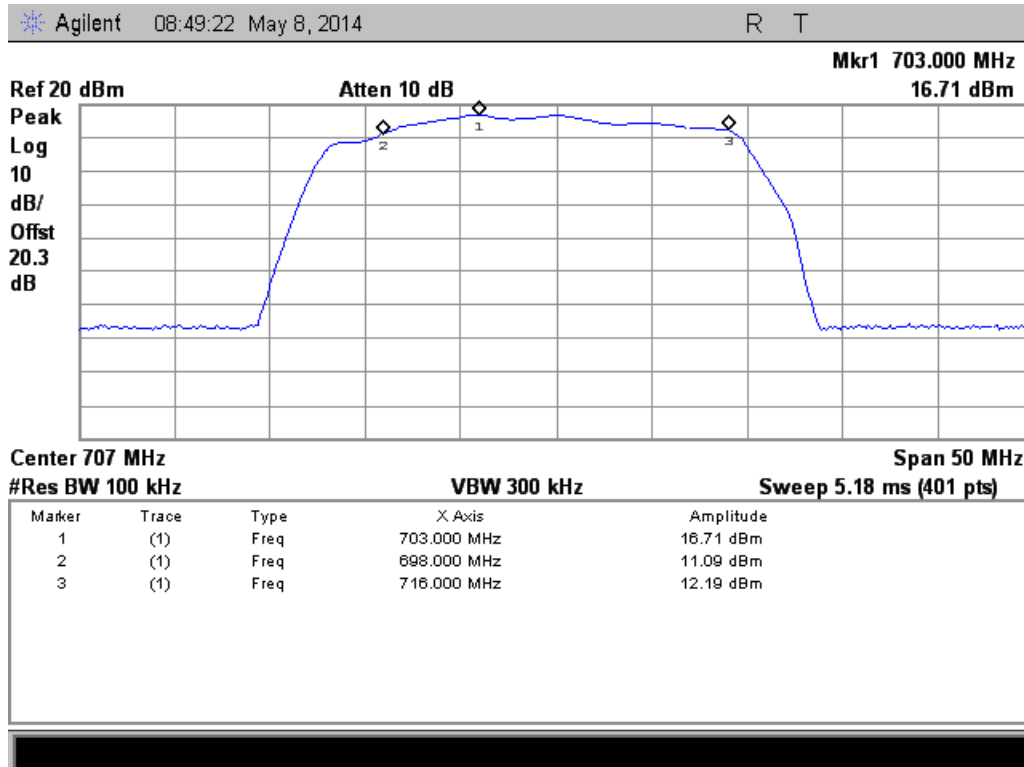
The EUT was connected to a spectrum analyzer through an attenuator with the losses being input into the spectrum analyzer as a combination of reference level offset and correction factor as needed to ensure accurate readings. A signal generator was utilized to produce a CW input signal tuned to the center channel of the operational band. The RF input level was increased to a point just prior to the AGC being in control of the power. The Signal generator was set to sweep across 2X the operational band of the EUT while the spectrum analyzer was set to MAX HOLD. Two markers were placed at the edges of the operational band and a third marker was placed at the highest point within the band no closer than 2.5 MHz from the band edge.

Test Setup

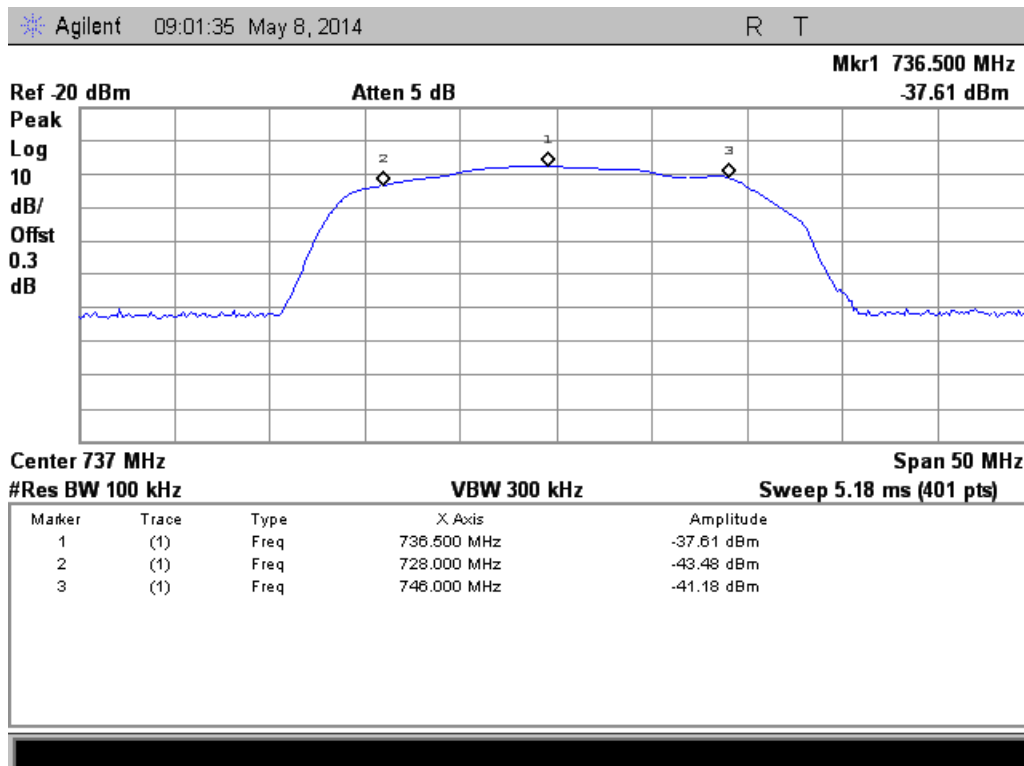




Uplink Test Plot 698 - 716 MHz Band



Downlink Test Plot 728 - 746 MHz Band



Maximum Power and Gain

Name of Test: Maximum Power and Gain
Test Equipment Utilized: i00424 and i00405

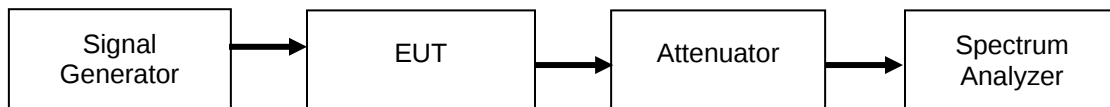
Engineer: Mike Graffeo
Test Date: 5/8/14

Test Procedure

The EUT was connected to a spectrum analyzer through an attenuator with the losses being input into the spectrum analyzer as a combination of reference level offset and correction factor as needed to ensure accurate readings. The spectrum analyzer and signal generator were tuned to the frequency with the highest power level in the band, as determined by the Authorized Frequency Band test. The RF input level was increased to a point just prior to the AGC being in control of the power for both pulsed single time slot GSM modulation and 4.1 MHz AWGN modulation. The maximum power was measured and verified to meet the minimum and maximum levels allowed, with the maximum gain being computed from these values. The uplink and downlink gain under each condition were verified to be within 9 dB of each other.

For direct connect, mobile booster, maximum booster gain = 15dB.

Test Setup



Uplink Power Test Results

Frequency Band (MHz)	Input Level (dBm)	Output Power (dBm)	Lower Limit (dBm)	Upper Limit (dBm)	Result
698 - 716 MHz Pulsed CW	5.1	18.54	17	30	Pass
698 - 716 MHz AWGN	4.9	17.83	17	30	Pass

Downlink Power Test Results

Frequency Band (MHz)	Input Level (dBm)	Output Power (dBm)	Upper Limit (dBm)	Result
728 - 746 MHz Pulsed CW	-48.0	-35.32	17	Pass
728 - 746 MHz AWGN	-48.9	-36.51	17	Pass

Uplink and Downlink Gain Test Results

Modulation	Uplink Frequency (MHz)	Downlink Frequency (MHz)	Uplink Gain (dB)	Uplink Limit (dB)	Downlink Gain (dB)	Downlink Limit (dB)	Delta (dB)	Limit (dB)	Margin (dB)
Pulsed CW	703	736.5	13.44	15	12.7	15	0.76	9	-8.24
AWGN	703	736.5	12.93	15	12.4	15	0.54	9	-8.46

Intermodulation

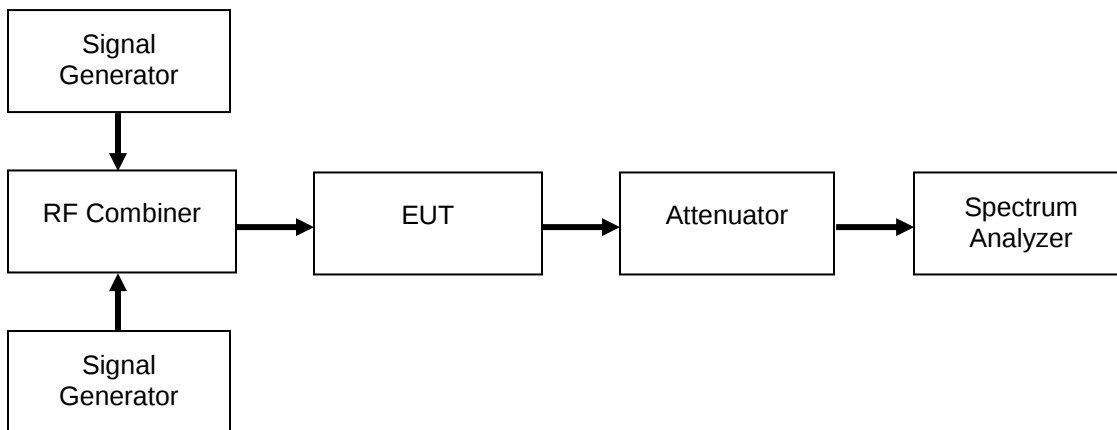
Name of Test: Intermodulation
Test Equipment Utilized: i00379, i00405, i00412

Engineer: Mike Graffeo
Test Date: 5/8/14

Test Procedure

The EUT was connected to a spectrum analyzer through an attenuator. Two signal generators were utilized to produce two CW signals 600 kHz apart and centered in the operational band. Attenuator and cable insertion loss correction factors were input to either the signal generator or the spectrum analyzer as required to ensure that accurate measurements were recorded. The input power was set at the maximum allowable power and the RMS intermodulation products were measured to ensure they were less than -19 dBm in a 3 kHz RBW. The uplink and downlink intermodulation products were plotted, with the levels being listed in the summary tables.

Test Setup



Uplink Test Results

Frequency Band (MHz)	Intermodulation Level (dBm)	Limit (dBm)	Result
698 - 716 MHz	-30.88	-19	Pass

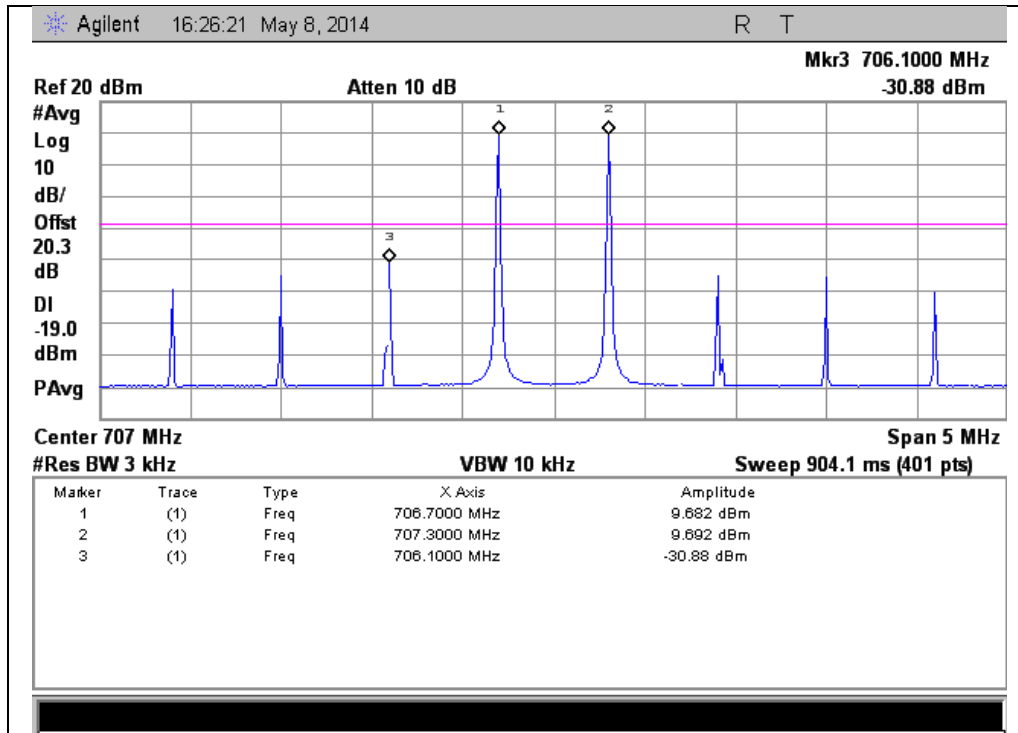
Downlink Test Results

Frequency Band (MHz)	Intermodulation Level (dBm)	Limit (dBm)	Result
728 - 746 MHz	-84.17	-19	Pass



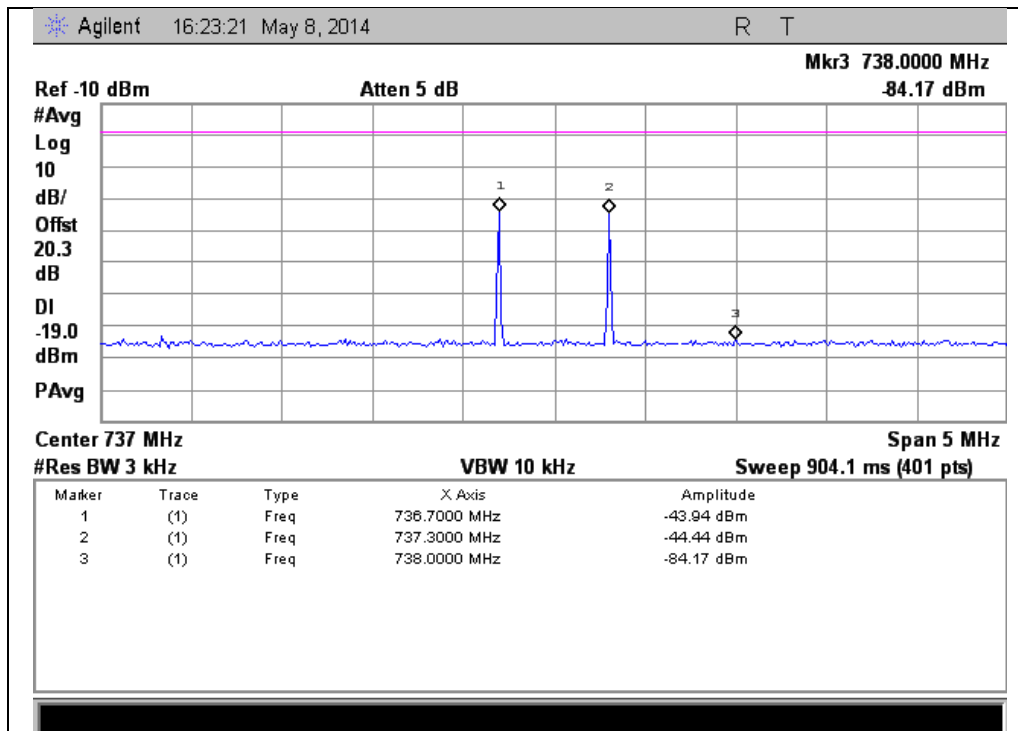
Uplink Test Plots

698 - 716 MHz Band



Downlink Test Plots

728 - 746 MHz Band



Out-of-Band Emissions

Name of Test:

Out-of-Band Emissions

Engineer: Mike Graffeo

Test Equipment Utilized:

i00379 and i00405

Test Date: 5/9/14

Test Procedure

The EUT was connected to a spectrum analyzer through an attenuator with the losses being input into the spectrum analyzer as a combination of reference level offset and correction factor in order to ensure accurate readings. A signal generator was utilized to produce the following signals: GSM, CDMA, and WCDMA. The signal generator was tuned to the lowest allowable upper and lower channel within the EUT operational band for each respective modulation type. The RF input level was increased to a point just prior to the AGC being in control of the power. For each modulation type the Out of Band Emissions were measured to ensure they met the limits.

The following formula was used for calculating the limits:

$$\text{Limit} = P1 - 6 - (43 + 10\log(P2)) = -19\text{dBm}$$

P1 = power in dBm

P2 = power in Watts

Test Setup



GSM Uplink Test Results

Frequency Band (MHz)	Band Edge	Measured Level (dBm)	Limit (dBm)	Result
698 - 716	Lower	-32.06	-19	Pass
698 - 716	Upper	-34.18	-19	Pass

CDMA Uplink Test Results

Frequency Band (MHz)	Band Edge	Measured Level (dBm)	Limit (dBm)	Result
698 - 716	Lower	-44.78	-19	Pass
698 - 716	Upper	-48.79	-19	Pass

WCDMA Uplink Test Results

Frequency Band (MHz)	Band Edge	Measured Level (dBm)	Limit (dBm)	Result
698 - 716	Lower	-49.87	-19	Pass
698 - 716	Upper	-50.27	-19	Pass

GSM Downlink Test Results

Frequency Band (MHz)	Band Edge	Measured Level (dBm)	Limit (dBm)	Result
728 – 746	Lower	-77.31	-19	Pass
728 - 746	Upper	-76.75	-19	Pass

CDMA Downlink Test Results

Frequency Band (MHz)	Band Edge	Measured Level (dBm)	Limit (dBm)	Result
728 - 746	Lower	-78.07	-19	Pass
728 - 746	Upper	-77.94	-19	Pass

WCDMA Downlink Test Results

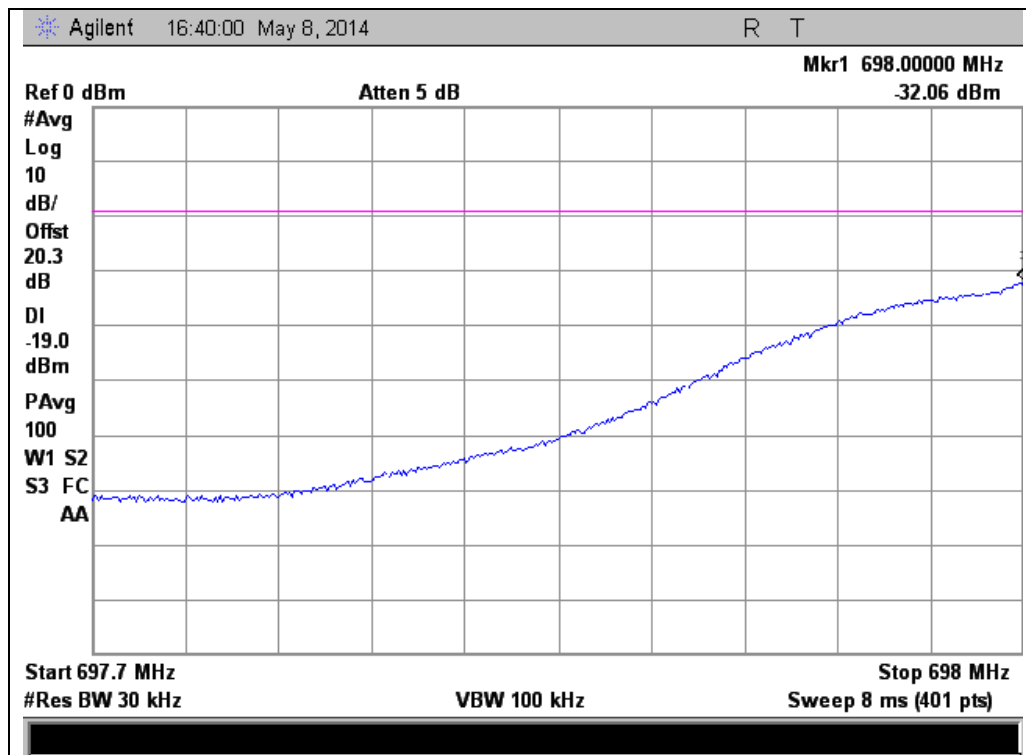
Frequency Band (MHz)	Band Edge	Measured Level (dBm)	Limit (dBm)	Result
728 - 746	Lower	-77.59	-19	Pass
728 - 746	Upper	-77.73	-19	Pass



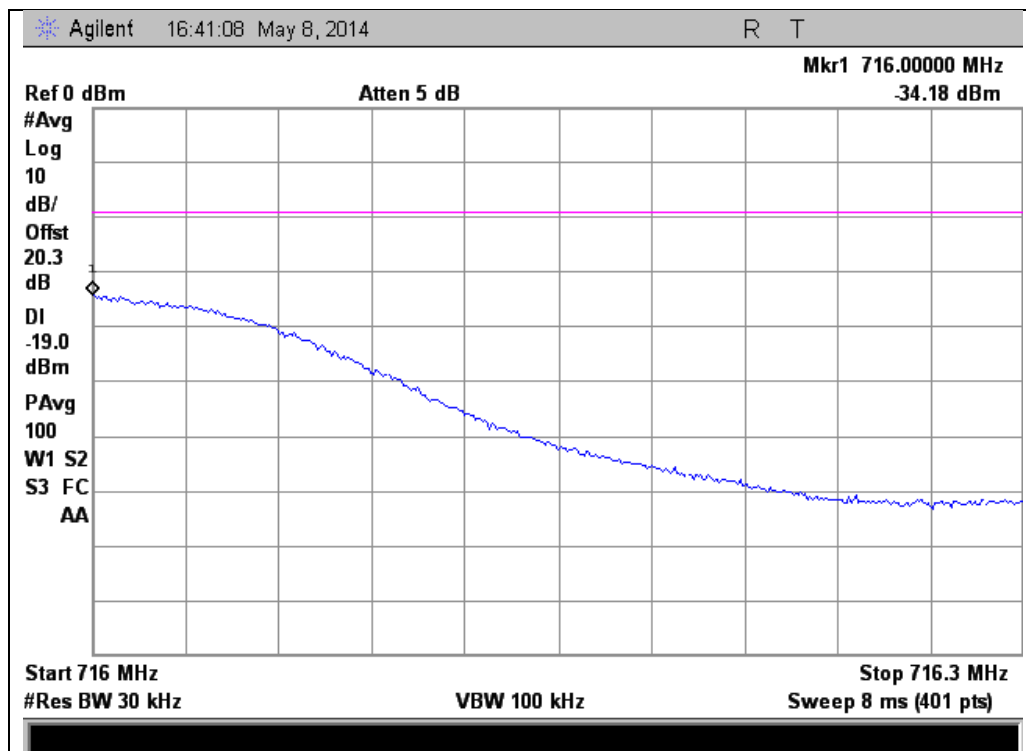
GSM Uplink Test Plots

698 - 716 MHz Band

Lower Band Edge



Upper Band Edge

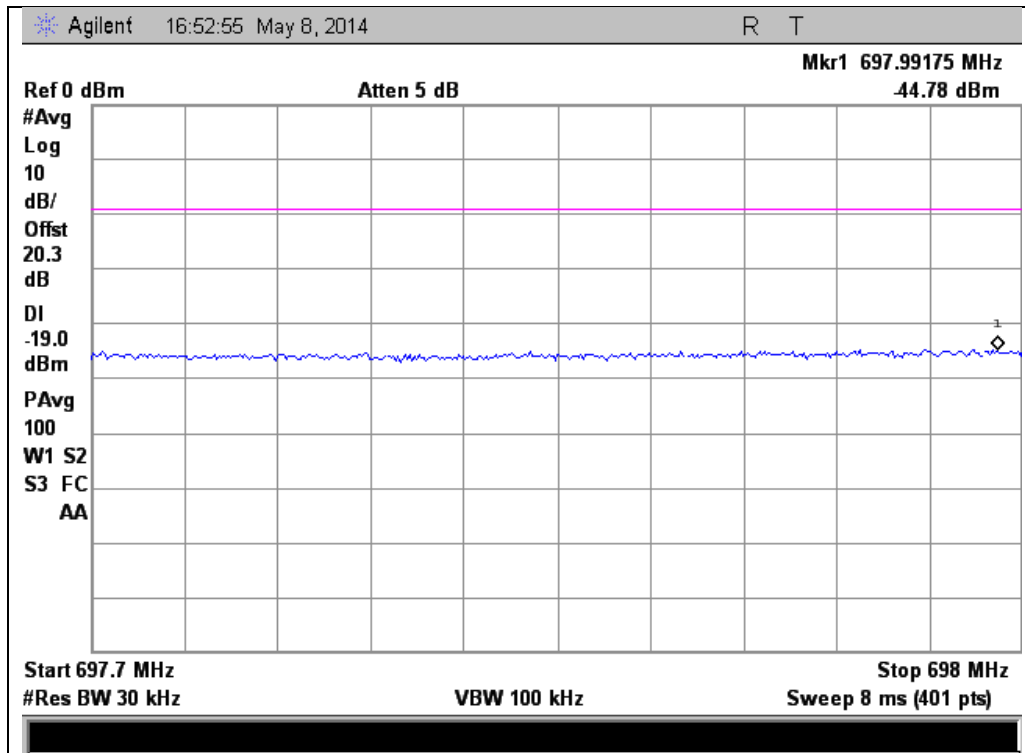




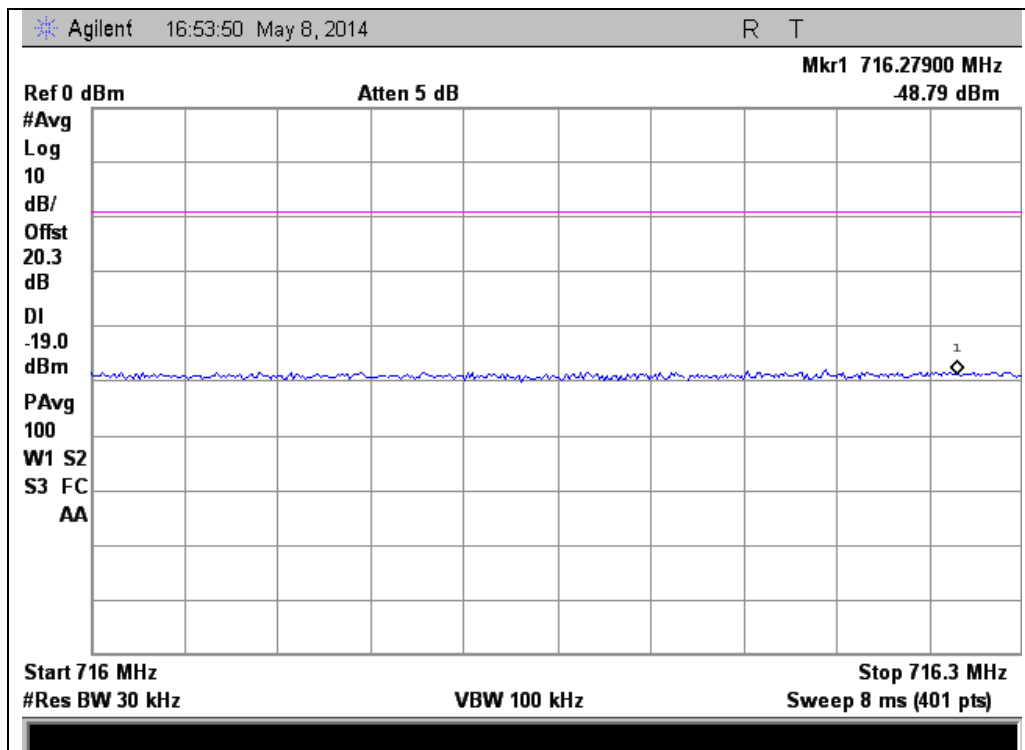
CDMA Uplink Test Plots

698 - 716 MHz Band

Lower Band Edge



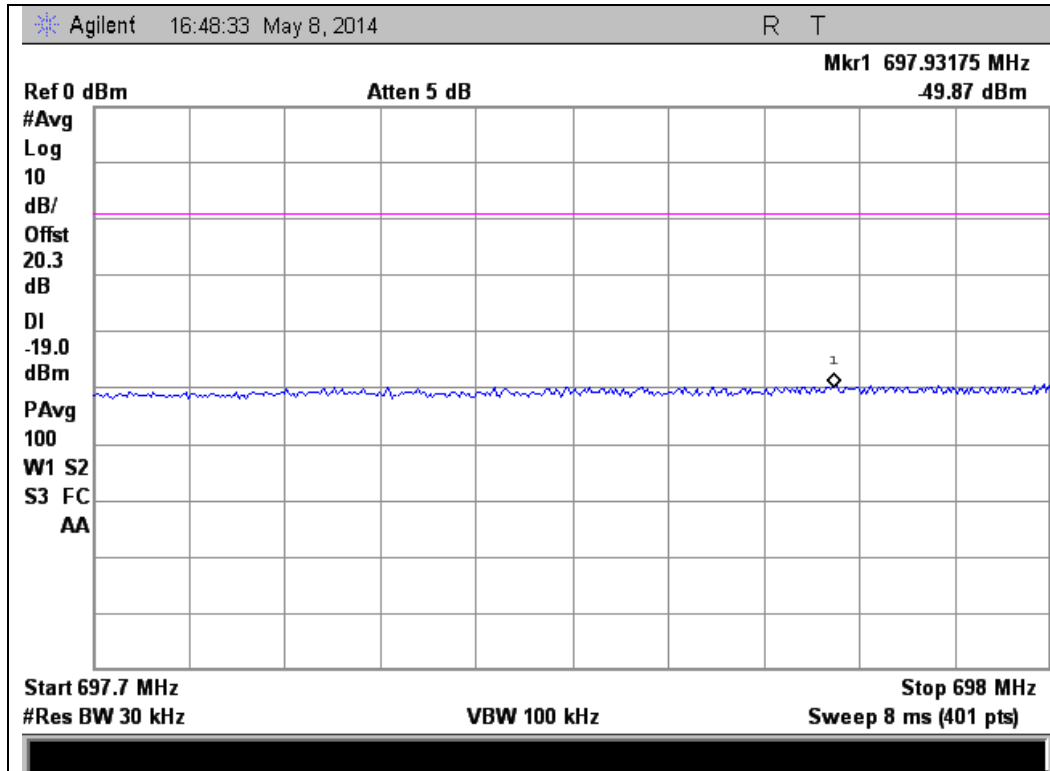
Upper Band Edge



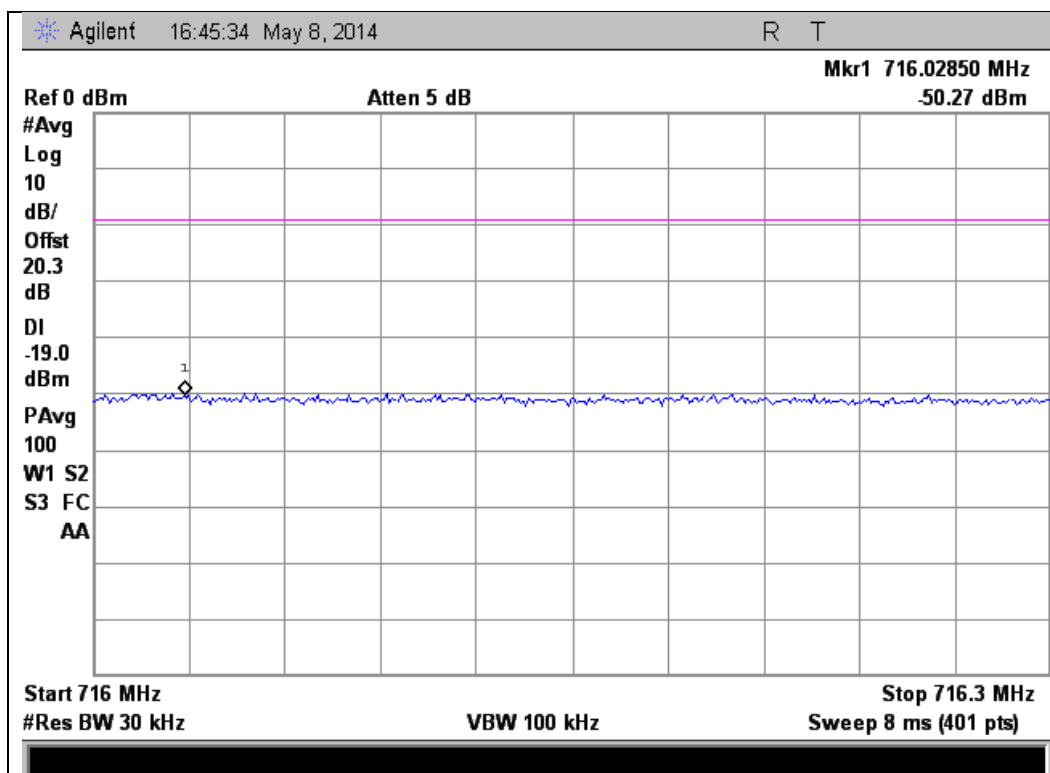


WCDMA Uplink Test Plots 698 - 716 MHz Band

Lower Band Edge



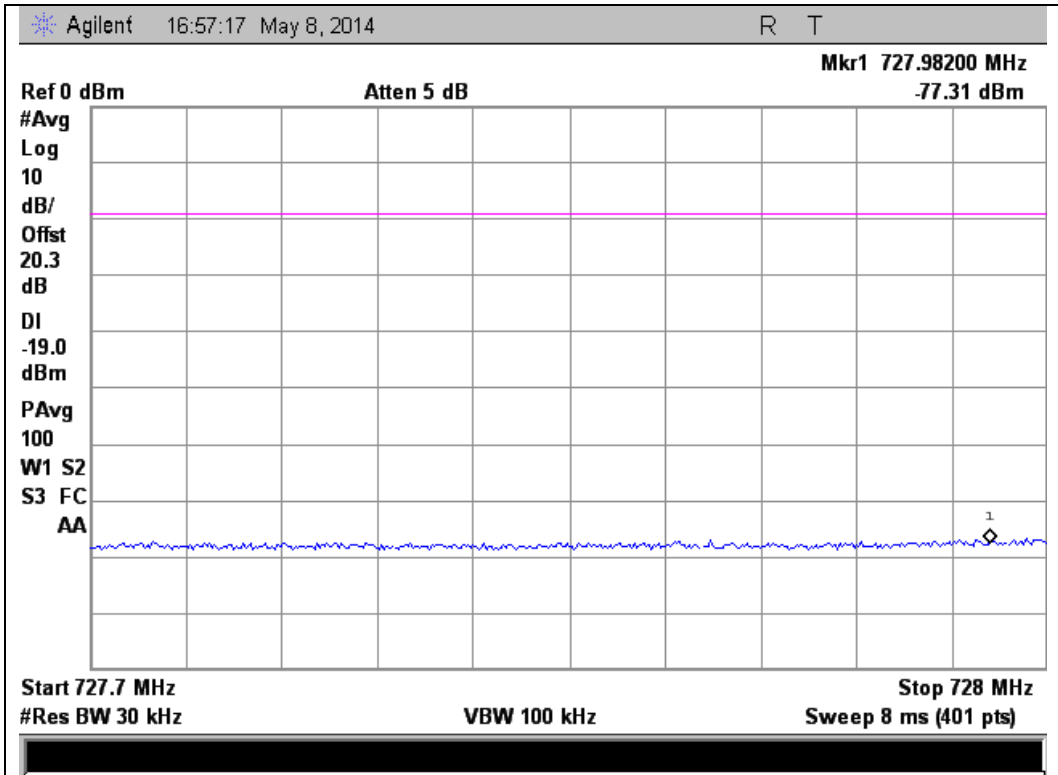
Upper Band Edge



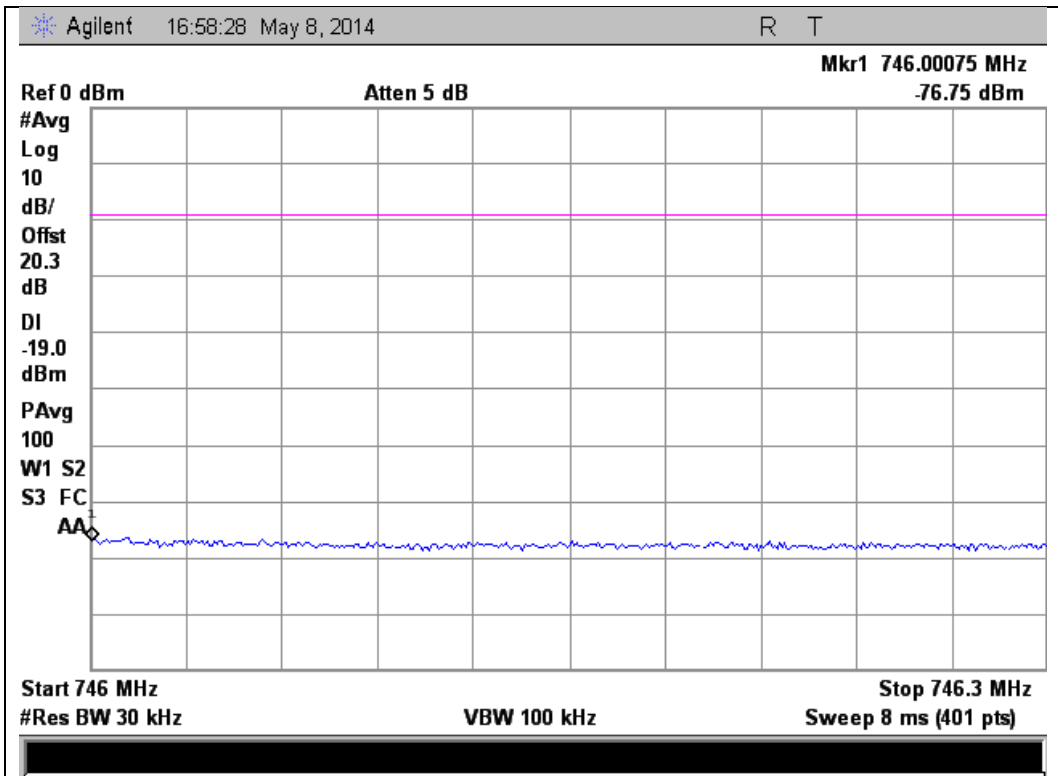


GSM Downlink Test Plots
728 - 746 MHz Band

Lower Band Edge



Upper Band Edge

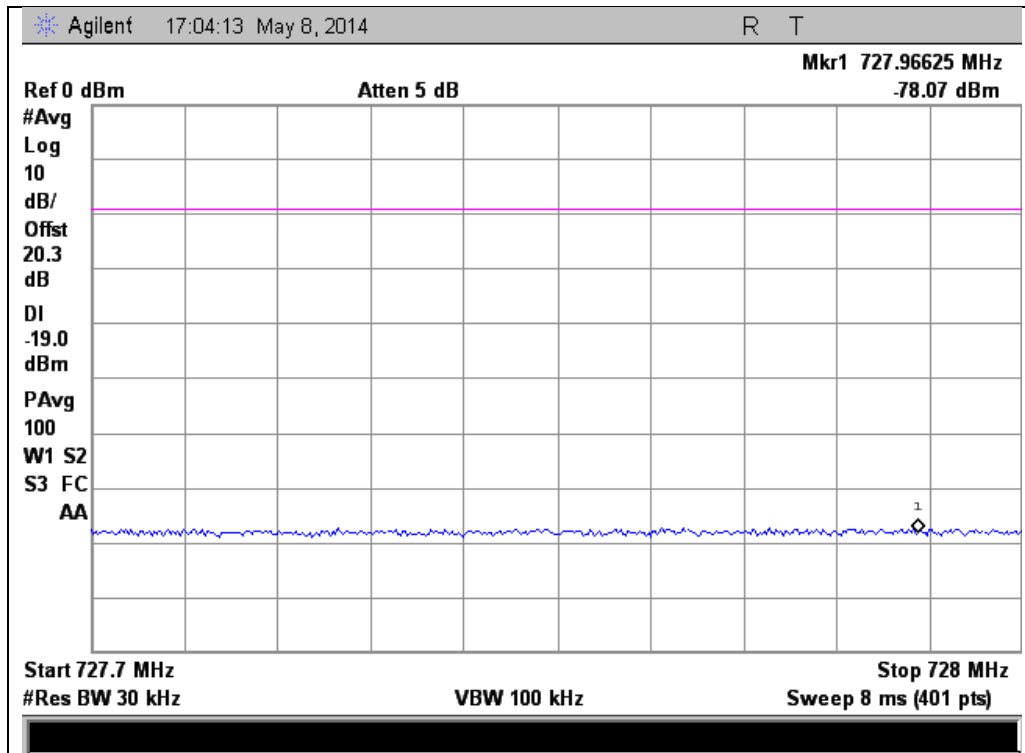




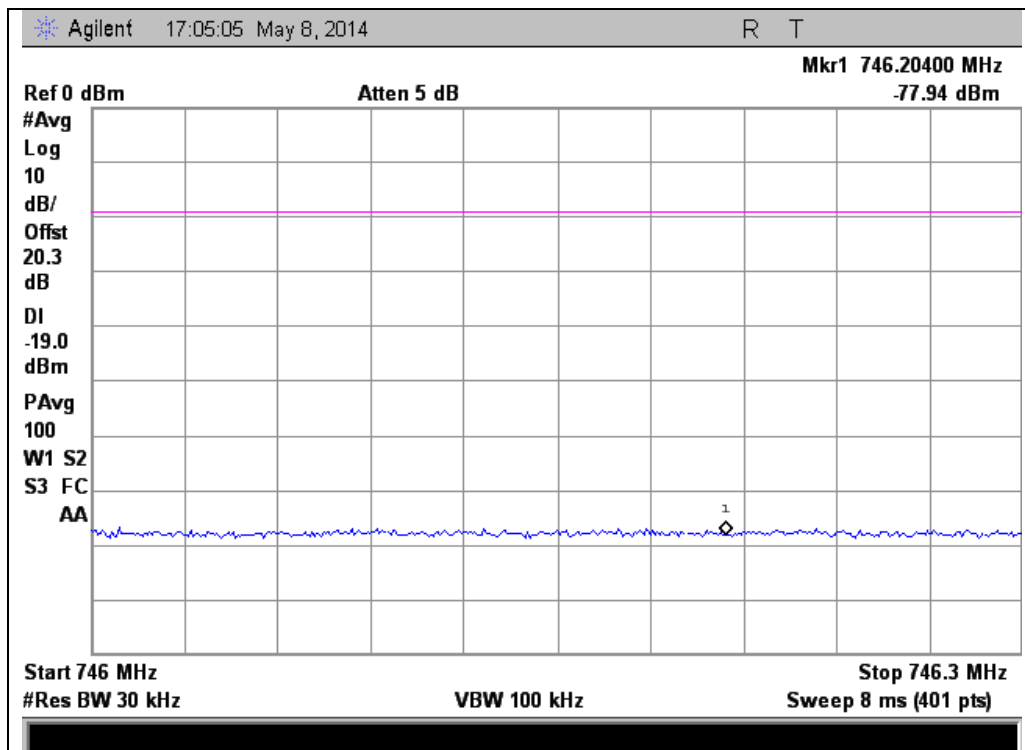
CDMA Downlink Test Plots

728 - 746 MHz Band

Lower Band Edge



Upper Band Edge

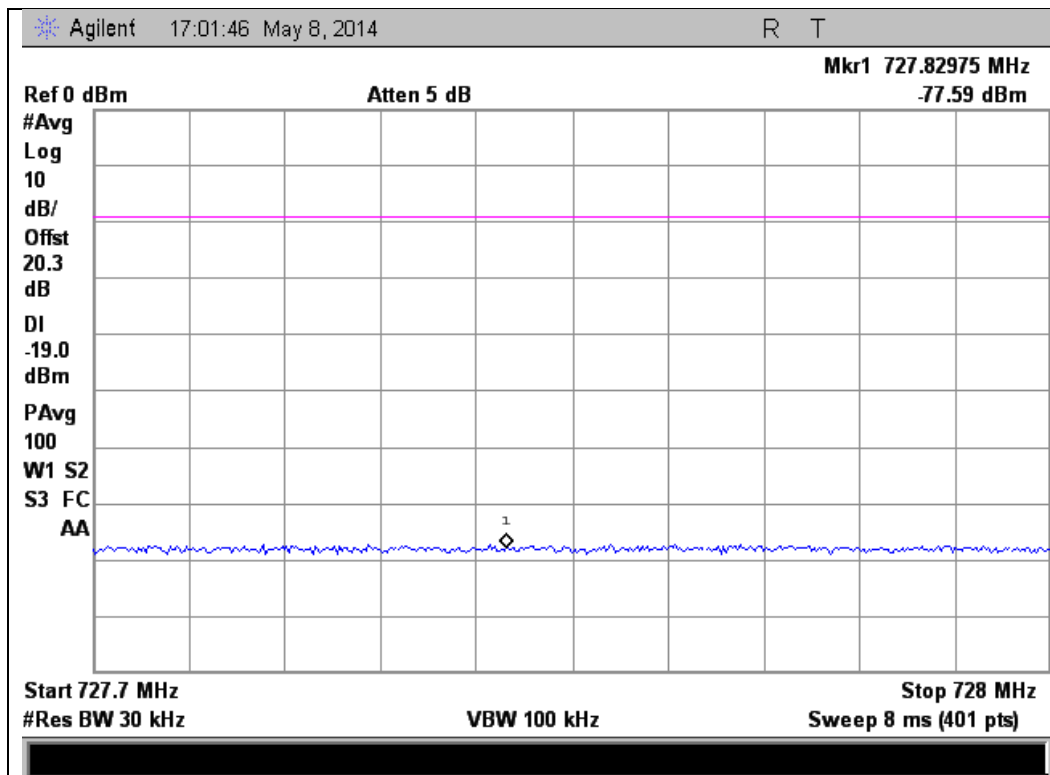




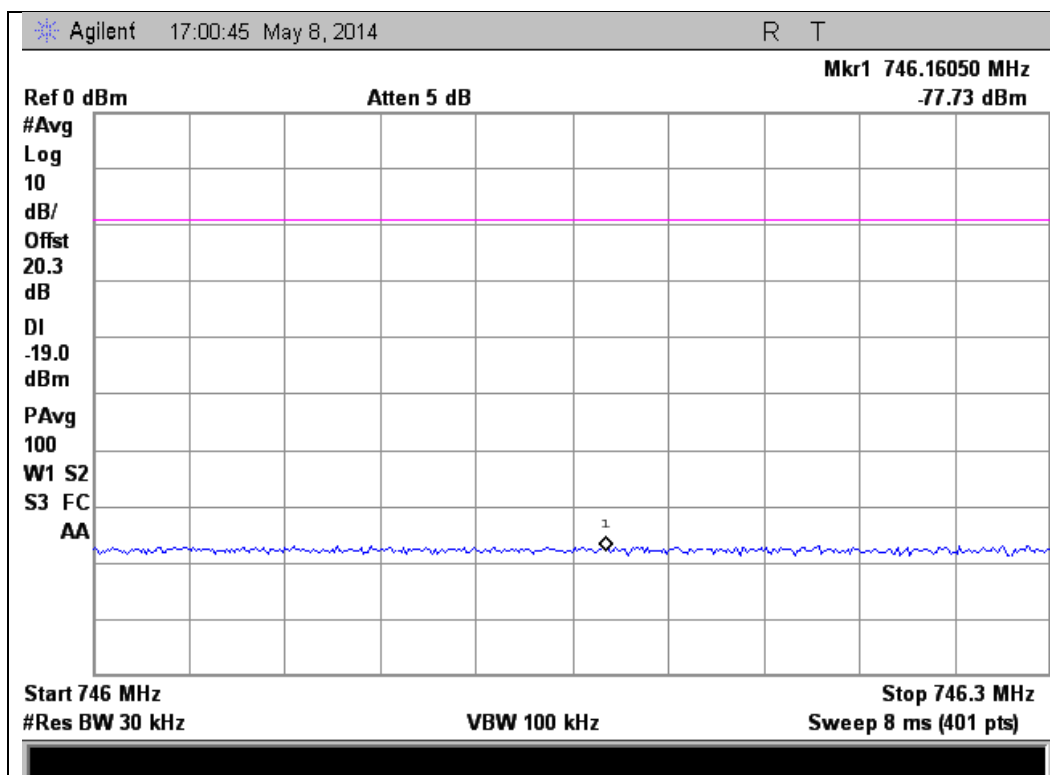
WCDMA Downlink Test Plots

728 - 746 MHz Band

Lower Band Edge



Upper Band Edge



Conducted Spurious Emissions

Name of Test: Conducted Spurious Emissions

Engineer: Mike Graffeo

Test Equipment Utilized: i00379 and i00405

Test Date: 5/9/2014

Test Procedure

The EUT was connected to a spectrum analyzer through an attenuator, with the losses being input into the spectrum analyzer as a combination of reference level offset and correction factor as needed to ensure accurate readings. A signal generator was utilized to produce a 4.1 MHz AWGN signal operating at the maximum allowable power. The conducted spurious emissions from 9 kHz to 10 times the highest tunable frequency for each operational band were measured (excluding the band defined by the Out of band emissions test). The emissions were plotted and the highest level was recorded in the summary table.

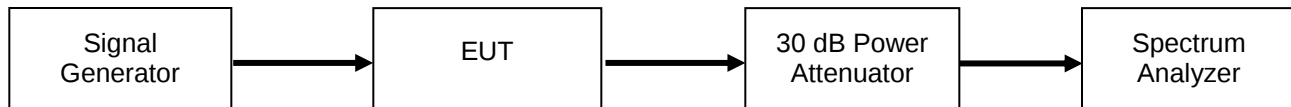
The following formulas are used for calculating the limits.

Conducted Spurious Emissions Limit = $P1 - (43 + 10\log(P2)) = -13 \text{ dBm}$

P1 = power in dBm

P2 = power in Watts

Test Setup



Uplink Test Results

Frequency Band (MHz)	Measured Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Result
698 - 716	2121.2	-37.8	-13	Pass

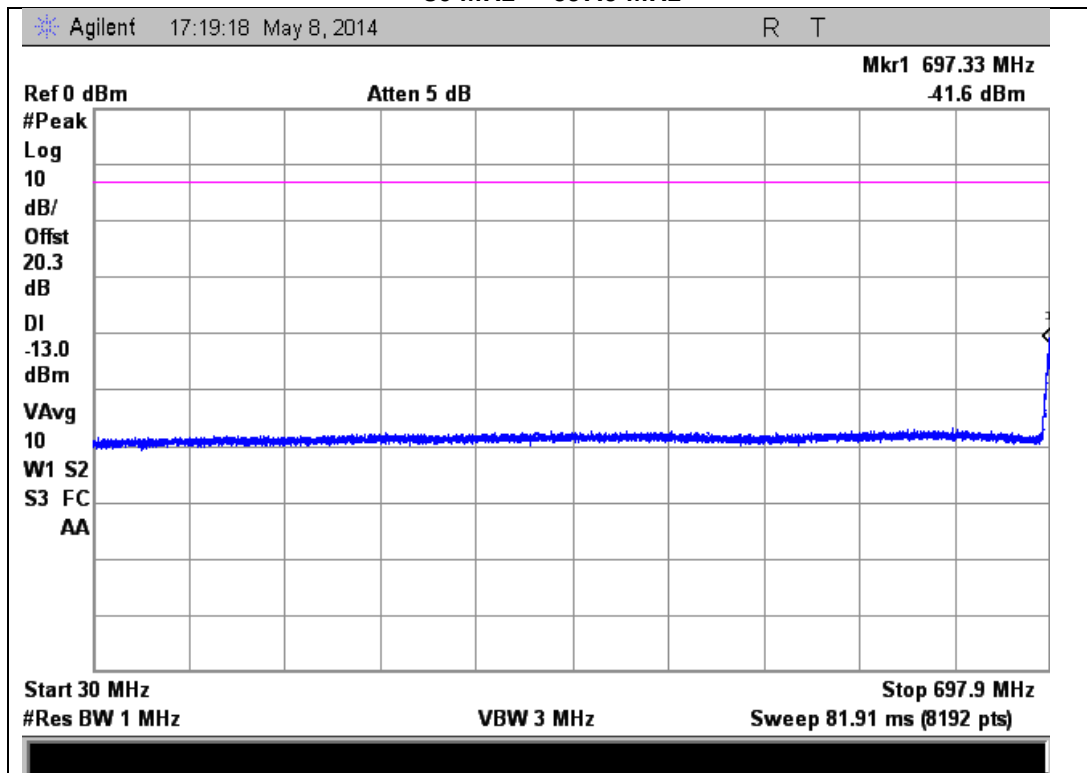
Downlink Test Results

Frequency Band (MHz)	Measured Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Result
728 - 746	2989.5	-54.75	-13	Pass

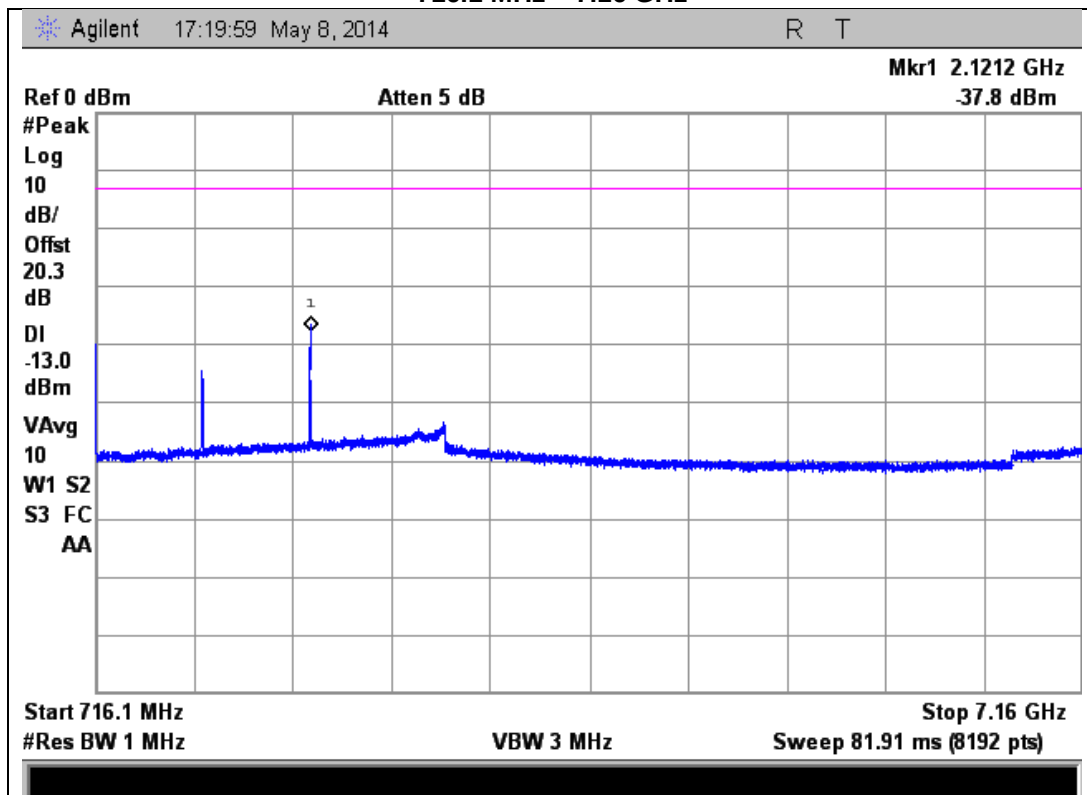


Uplink Test Plots

698 - 716 MHz Band
30 MHz – 697.9 MHz



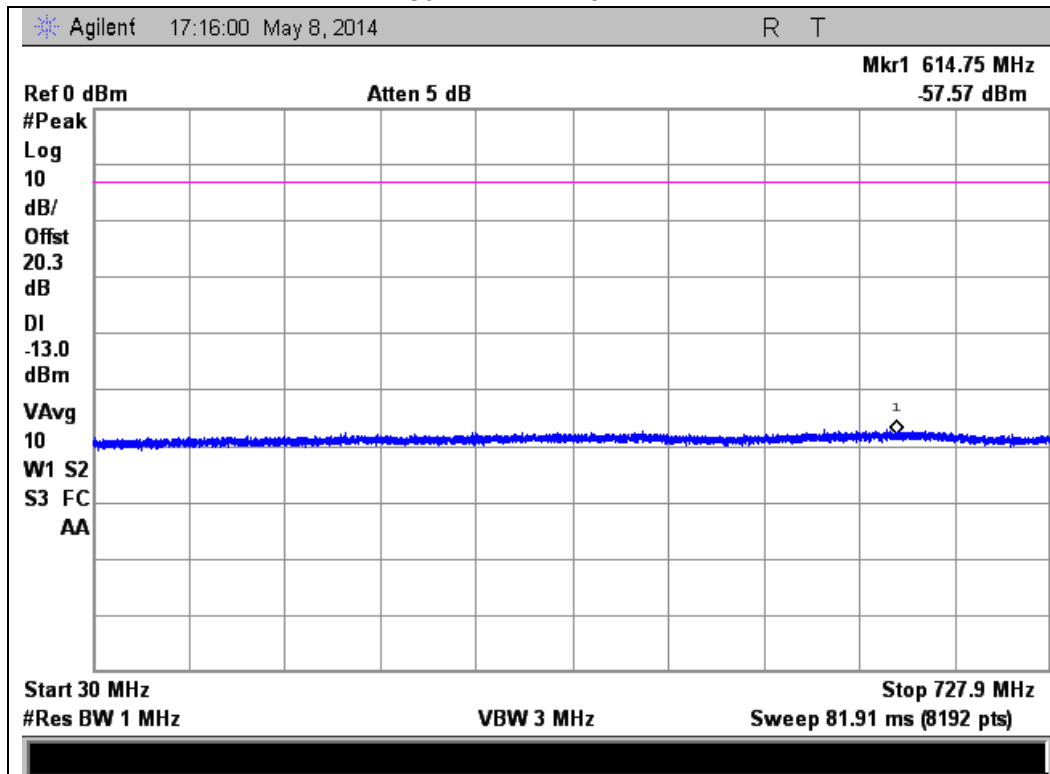
716.1 MHz – 7.16 GHz





Downlink Test Plots
728 - 746 MHz Band

30 MHz – 727.9 MHz



Noise Limits

Name of Test:

Noise Limits

Engineer: Mike Graffeo

Test Equipment Utilized:

i00379, i00405, i00412

Test Date: 5/8/14

Test Procedure

The EUT was connected to a spectrum analyzer through an attenuator with the losses being input into the spectrum analyzer as a combination of reference level offset and correction factor as necessary to ensure that accurate readings were obtained. A series of tests were performed to find the maximum uplink and downlink noise.

(The variable noise for the uplink and downlink in the presence of a downlink signal, and the variable uplink noise timing were tests that were not performed, because they are N/A, due to noise being less than -70dBm/MHz).

The detailed procedures from KDB 935210 D03 Wideband Consumer Signal Booster Measurement Guidance DR04-41516c were followed.

The following formulas are used for calculating the limits. Note – Downlink noise power limit is calculated with the CF of the associated uplink band.

Noise Power = -59dBm/MHz for Mobile Boosters

Test Setup

Uplink and Downlink Maximum Noise Power



Maximum Uplink Noise Test Results

Frequency Band (MHz)	Measured Noise (dBm)	Limit (dBm)	Margin (dB)	Result
698 - 716 MHz	-74.34	-45.5	-28.83	Pass

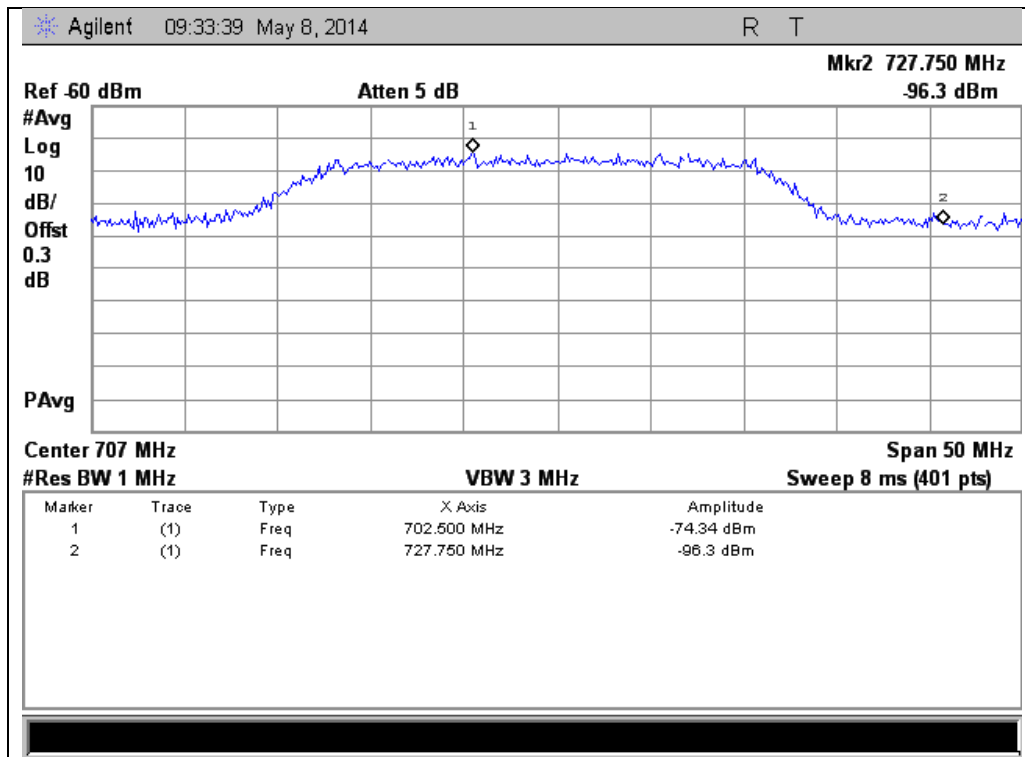
Maximum Downlink Noise Test Results

Frequency Band (MHz)	Measured Noise (dBm)	Limit (dBm)	Margin (dB)	Result
728 - 746 MHz	-80.37	-45.5	-34.86	Pass



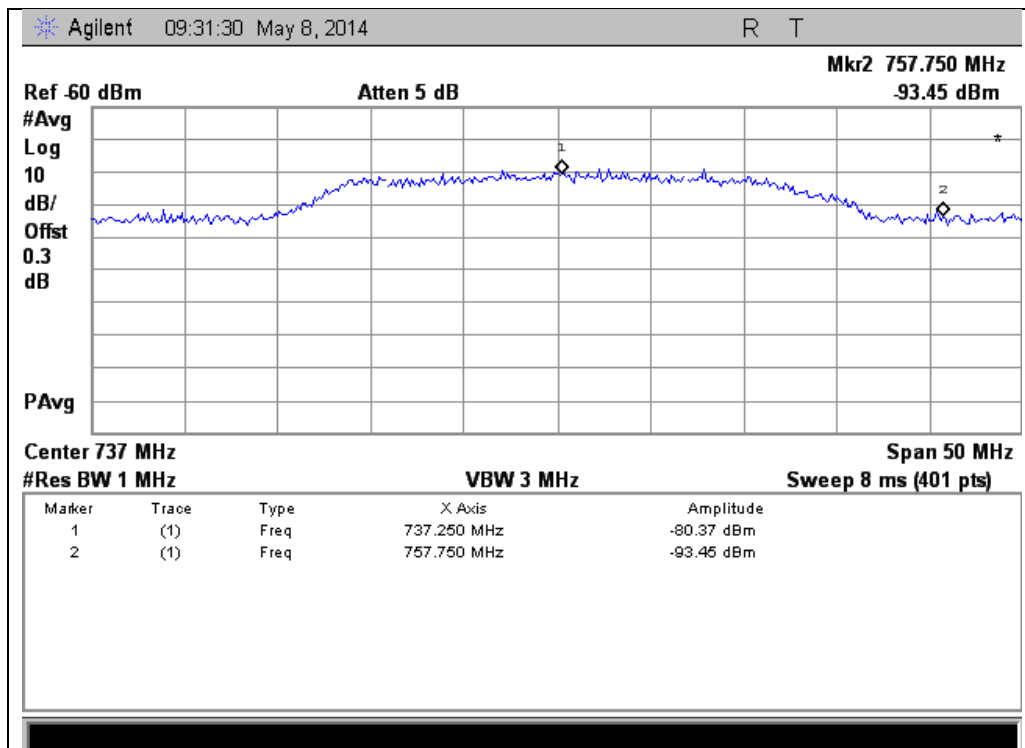
Maximum Uplink Noise Test Plots

698 - 716 MHz Band



Maximum Downlink Noise Test Plots

728 - 746 MHz Band



Variable Gain

Name of Test: Variable Gain
Test Equipment Utilized: i00424, i00405, i00412

Engineer: Mike Graffeo
Test Date: 5/9/2014

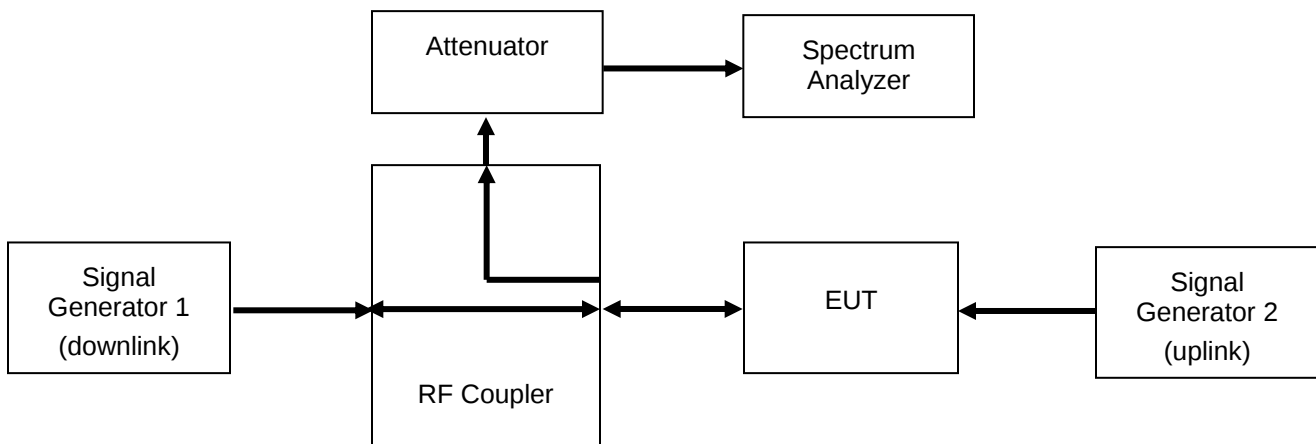
Test Procedure

The EUT was connected to a spectrum analyzer through an attenuator with the losses being input into the spectrum analyzer as a combination of reference level offset and correction factor in order to ensure accurate readings were obtained. The uplink gain in the presence of a downlink signal and gain timing was measured for each operational uplink band using the detailed procedures from KDB 935210 D03 Wideband Consumer Signal Booster Measurement Guidance DR04-41516.

The following formula is used for calculating the limits:

$$\text{Variable Gain} = -34 \text{ dB} - \text{RSSI} + \text{MSCL}$$

Test Setup



Uplink Test Results

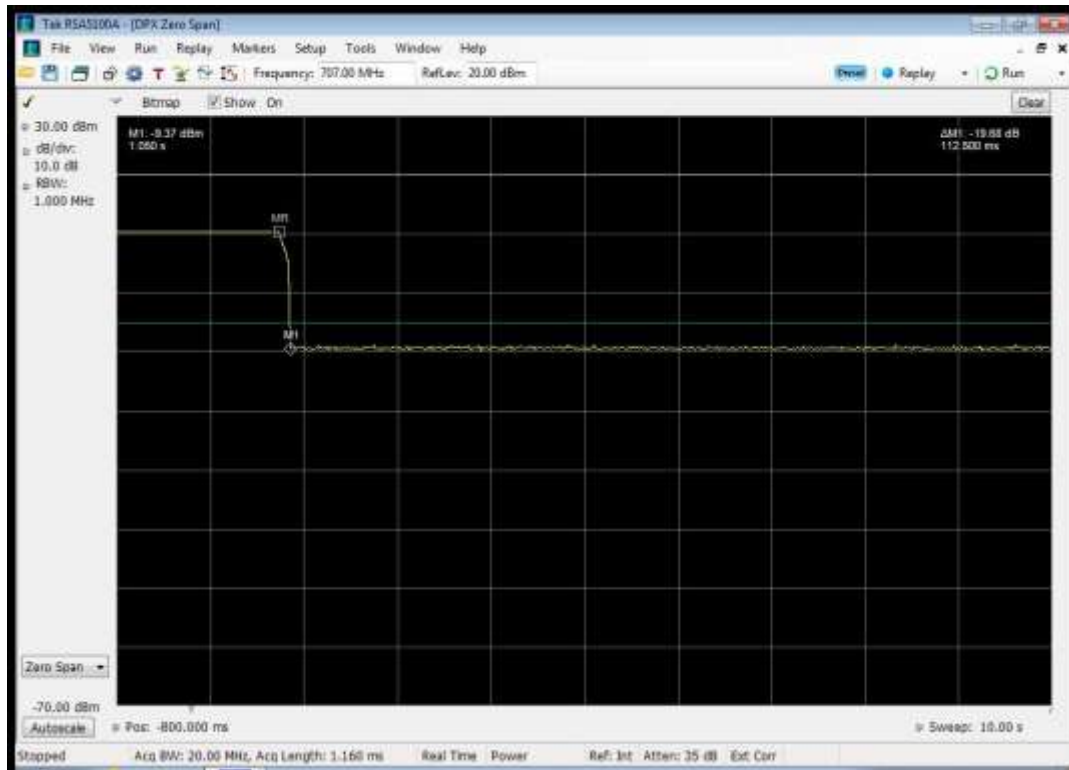
698 - 716 MHz

RSSI (dBm)	MSCL (dB)	Gain Limit (dBm)	P(in) (dBm)	P(out) (dBm)	Gain (dB)	Margin (dB)
-50	0.0	16.0	-0.1	12.7	12.8	-3.2
-49	0.0	15.0	-0.1	11.5	11.6	-3.4
-48	0.0	14.0	-0.1	10.5	10.6	-3.4
-45	0.0	11.0	-0.1	7.5	7.6	-3.4
-43	0.0	9.0	-0.1	5.5	5.6	-3.4
-41	0.0	7.0	-0.1	3.0	3.1	-3.9



Variable Uplink Gain Timing

698 - 716 MHz



Measurement is less than the limit of 1sec for a mobile device

Occupied Bandwidth

Name of Test: Occupied Bandwidth

Test Equipment Utilized: i00424 and i00405

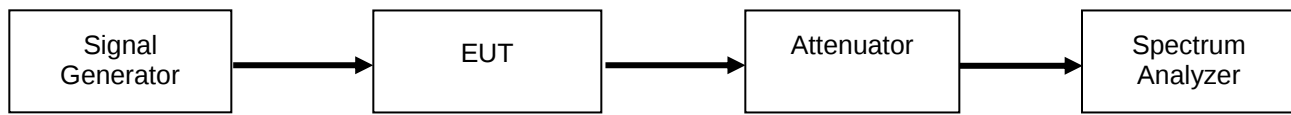
Engineer: Mike Graffeo

Test Date: 5/9/2014

Test Procedure

The EUT was connected to a spectrum analyzer through an attenuator with the losses being input into the spectrum analyzer as a combination of reference level offset and correction factor as required to ensure that accurate readings were obtained. A signal generator was utilized to produce the following signals: GSM, CDMA, and WCDMA. The signal generator was tuned to the center channel of each of the EUT operational uplink and downlink bands with the RF level set at a point just prior to the AGC being in control of the power. For each modulation type, the input and output signal was measured and plotted to ensure that the signals were similar.

Test Setup

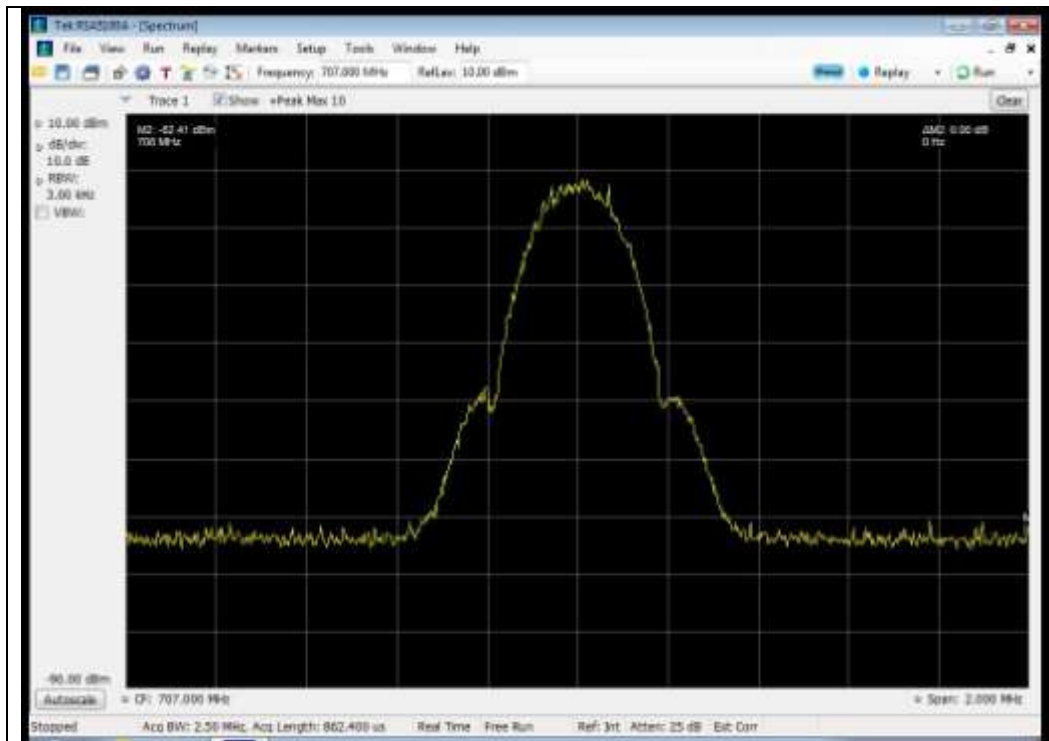




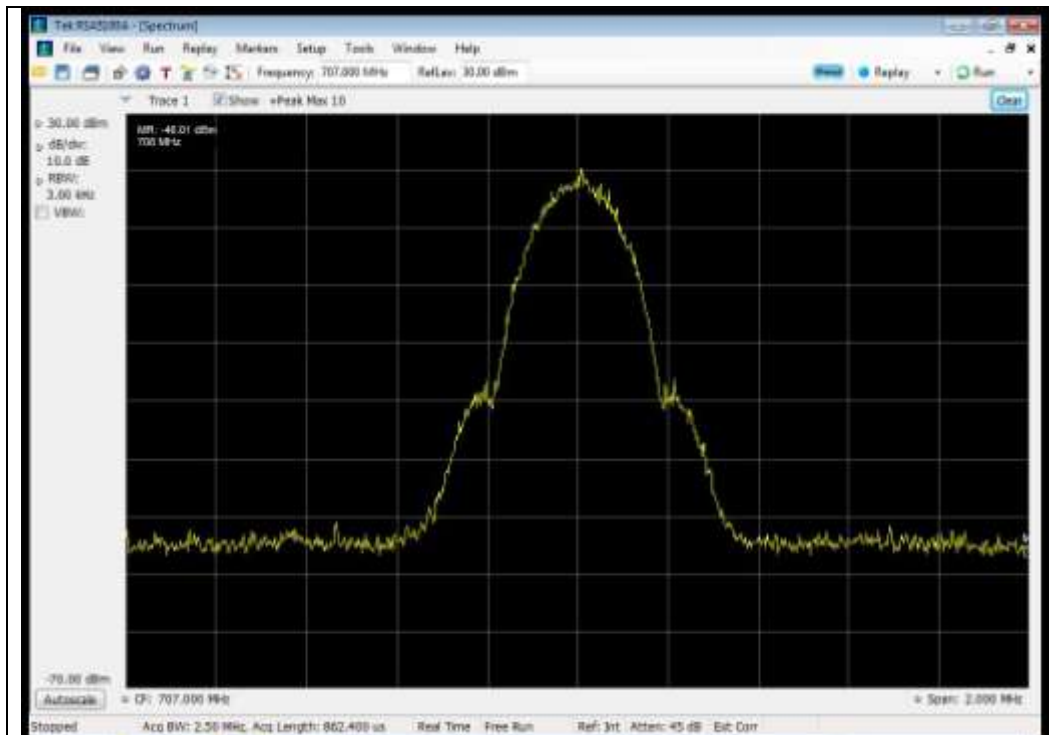
GSM Uplink Test Plots

698 - 716 MHz Band

Input



Output

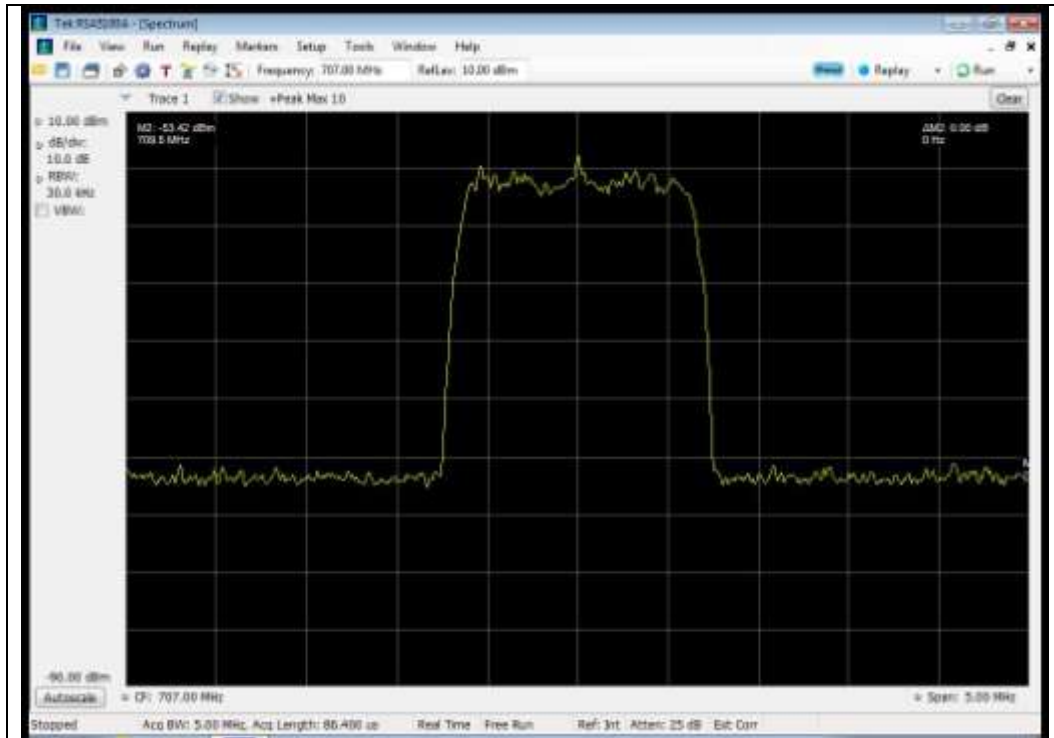




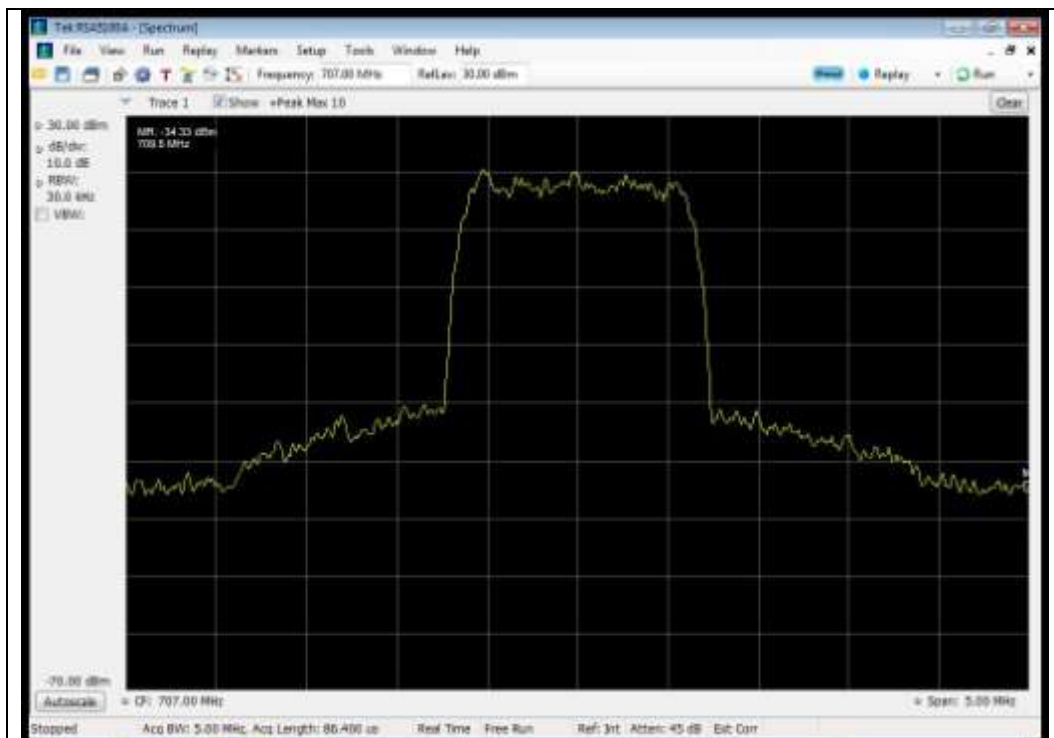
CDMA Uplink Test Plots

698 - 716 MHz Band

Input



Output

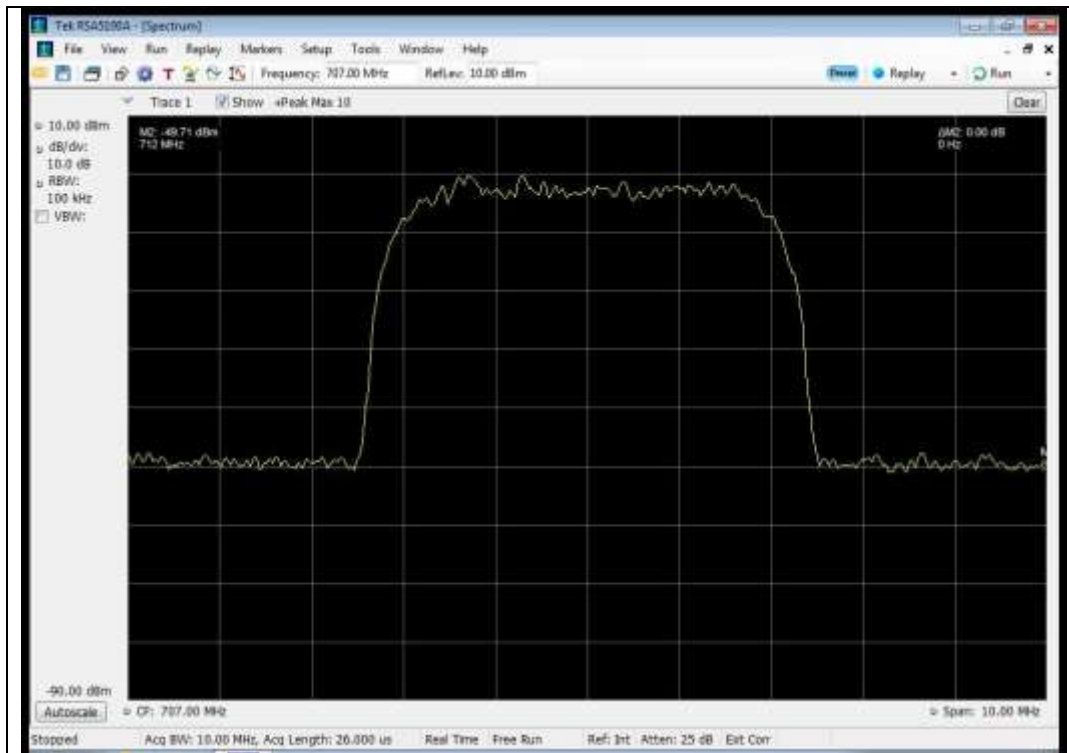




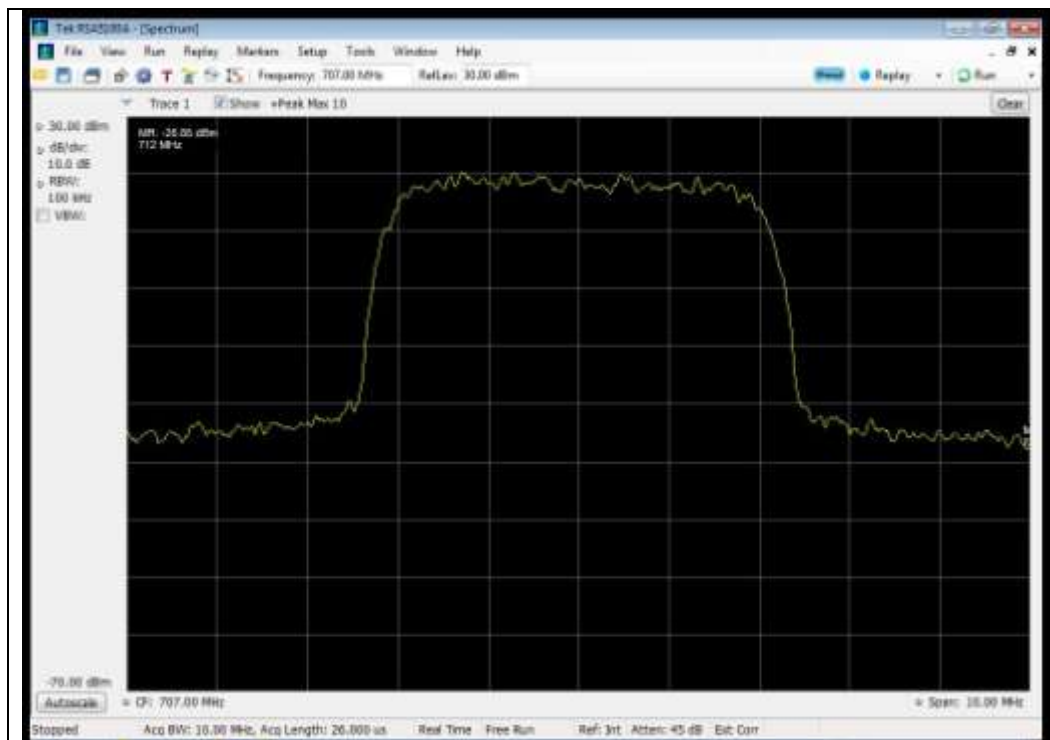
WCDMA Uplink Test Plots

698 - 716 MHz Band

Input



Output

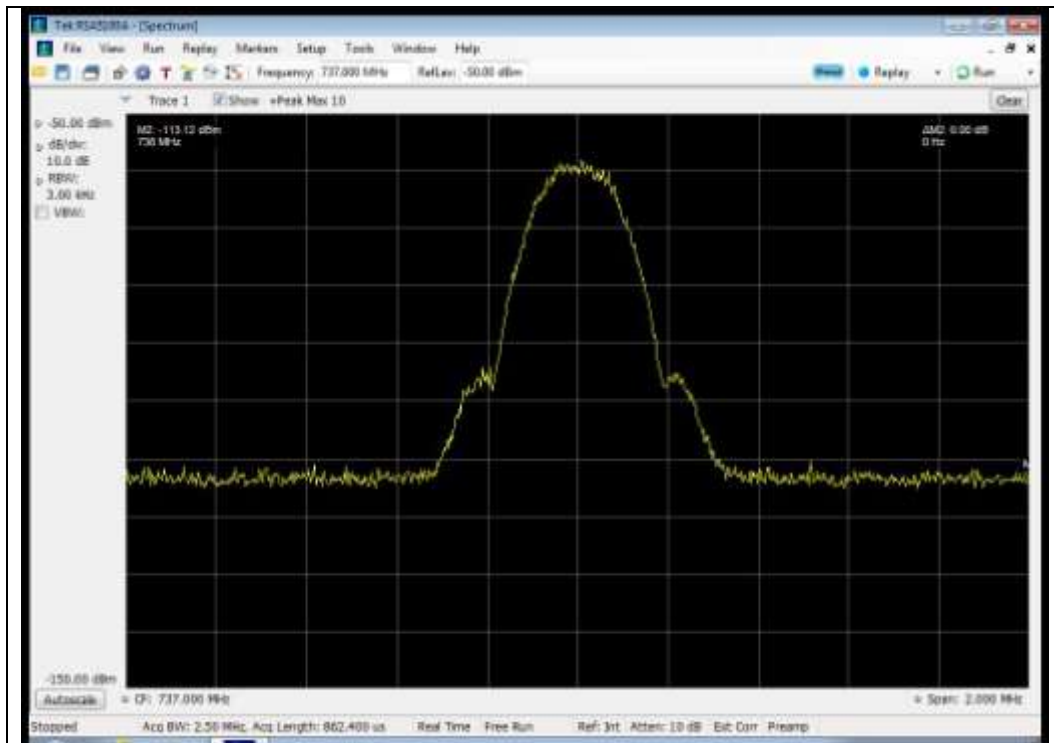




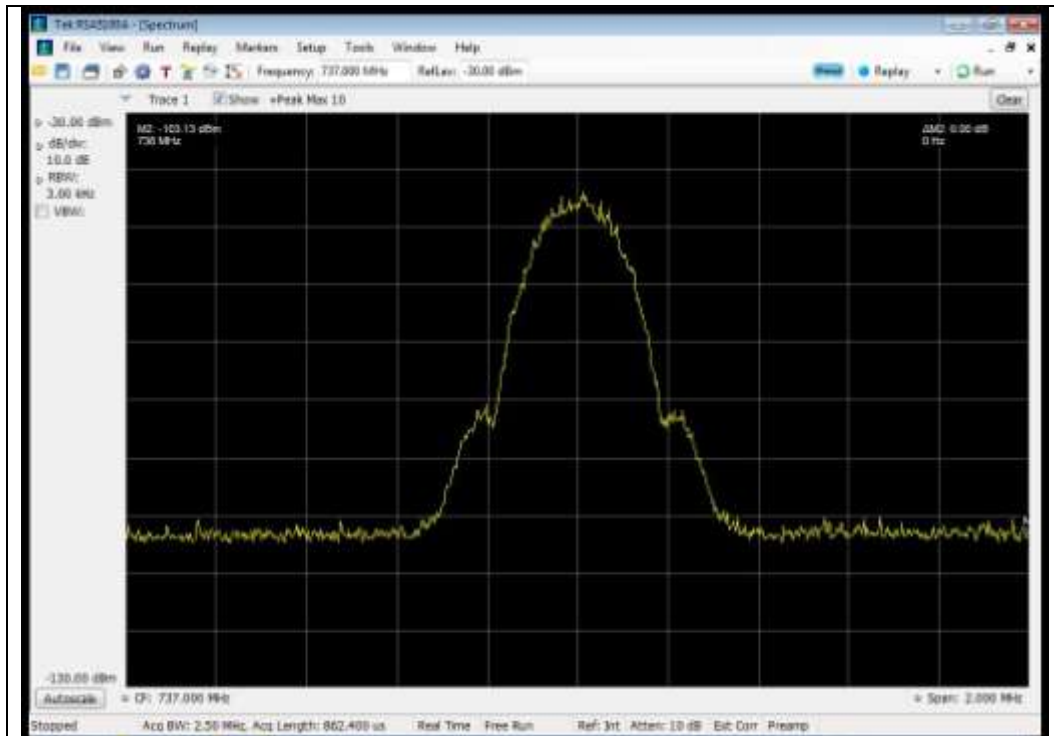
GSM Downlink Test Plots

728 - 746 MHz Band

Input



Output

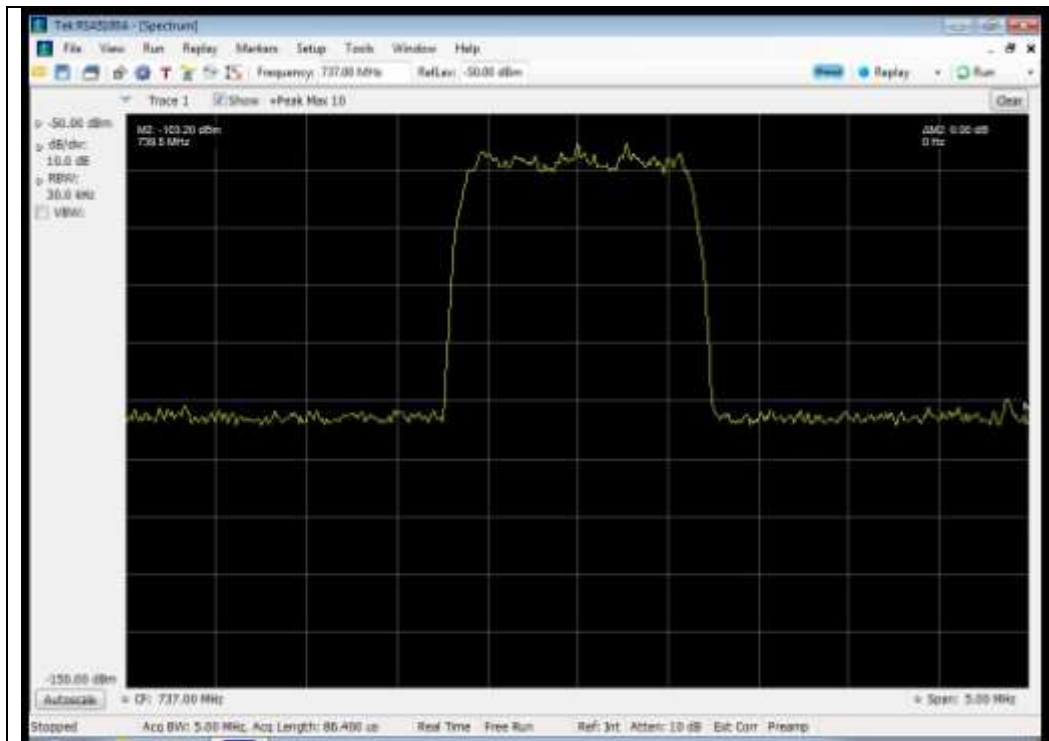




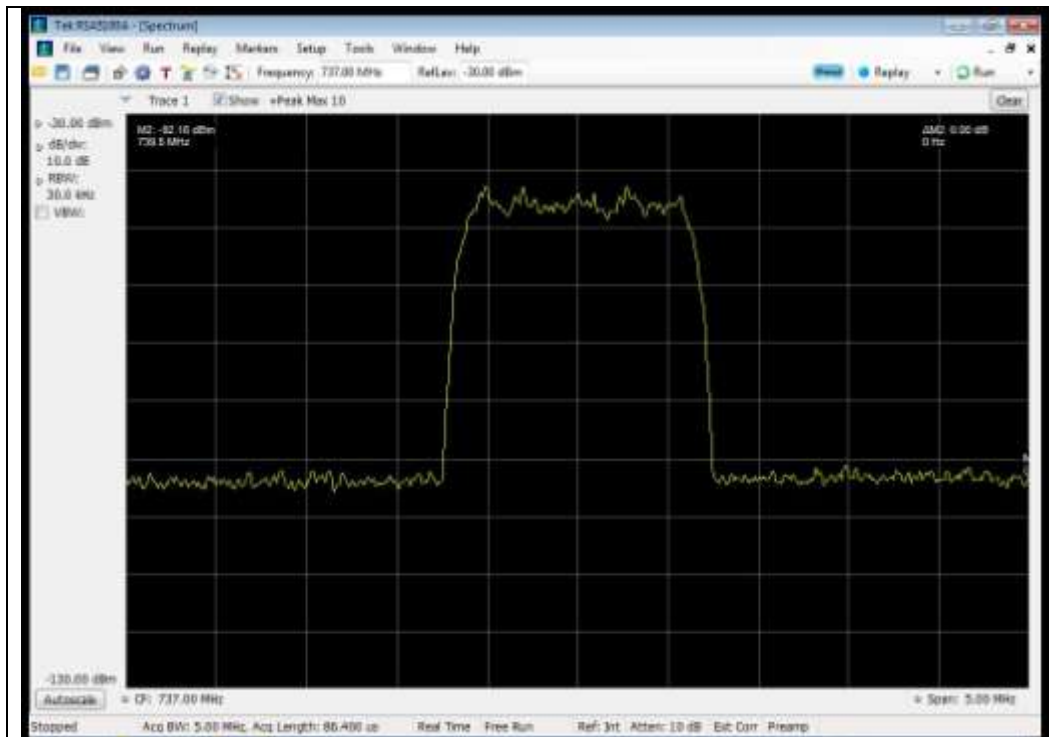
CDMA Downlink Test Plots

728 - 746 MHz Band

Input



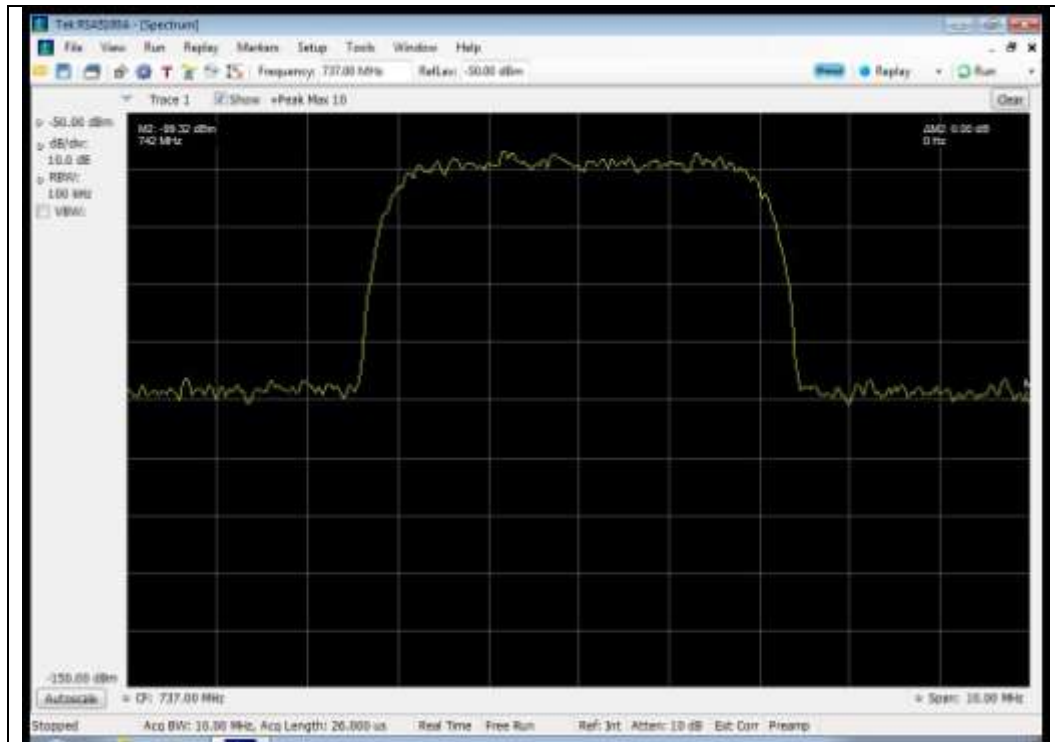
Output



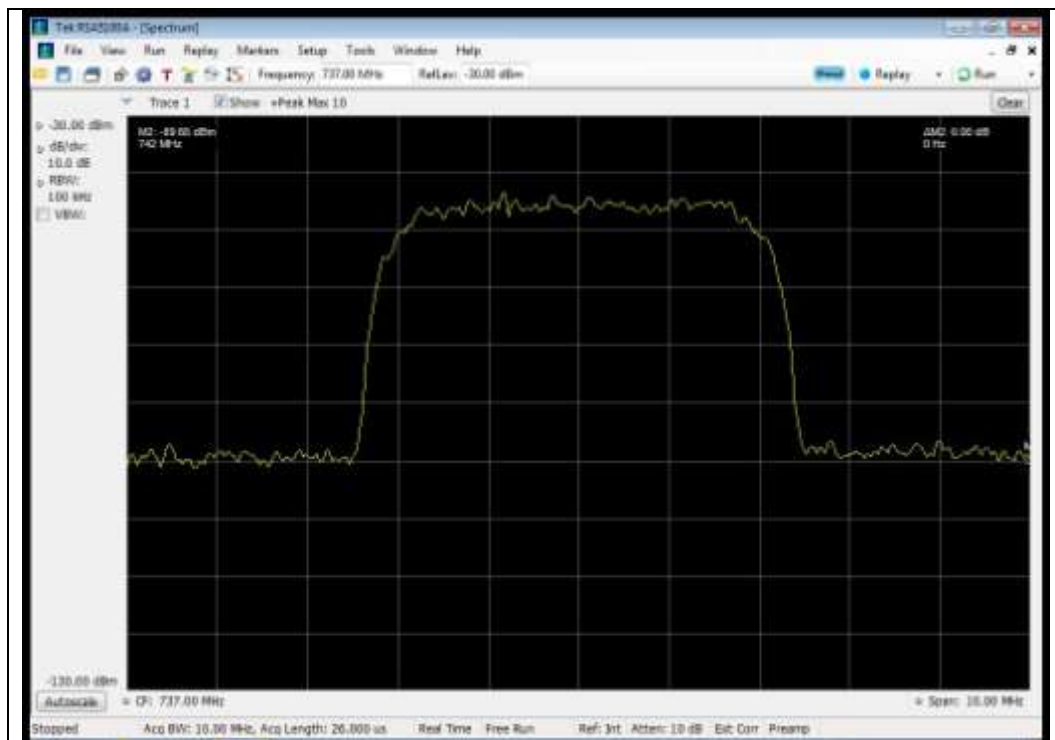
WCDMA Downlink Test Plots

728 - 746 MHz Band

Input



Output



Oscillation Detection

Name of Test:

Oscillation Detection

Engineer: Mike Graffeo

Test Equipment Utilized:

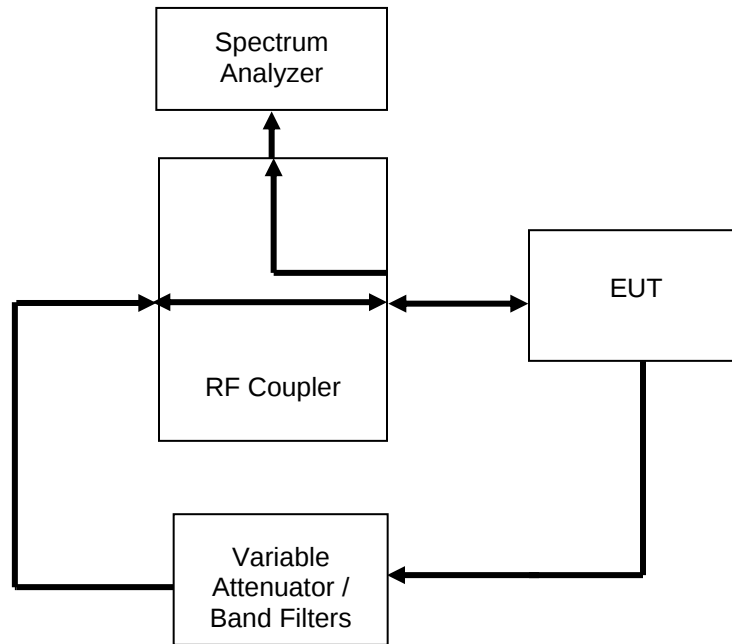
i00379, i00405, i00412

Test Date: 5/9/2014

Test Procedure

The EUT was connected to a spectrum analyzer set for 0 Hz operation. The EUT uplink and downlink were fed back upon each other through a selectable band pass filter and variable attenuator. The EUT uplink and downlink were tested to ensure that the presence of oscillation was detected and that the EUT output turned off within 300 mS for the Uplink and 1 second for the Downlink and remained off for 1 minute. A EUT with test software was utilized to ensure that the EUT only had a maximum of 5 attempts at restart from oscillation before permanently shutting off.

Test Setup





Uplink Detection Time Test Results

Frequency Band (MHz)	Measured Time (mS)	Limit (mS)	Result
698 - 716	68.75	300	Pass

Downlink Detection Time Test Results

Frequency Band (MHz)	Measured Time (mS)	Limit (mS)	Result
728 - 746	71.5	1000	Pass

Uplink Restart Time Test Results

Frequency Band (MHz)	Measured Time (S)	Limit (S)	Result
698 - 716	68.8	≥60	Pass

Downlink Restart Time Test Results

Frequency Band (MHz)	Measured Time (S)	Limit (S)	Result
728 - 746	68.6	≥60	Pass

Uplink Restart Count Test Results

Frequency Band (MHz)	Restarts	Limit	Result
698 - 716	3	≤5	Pass

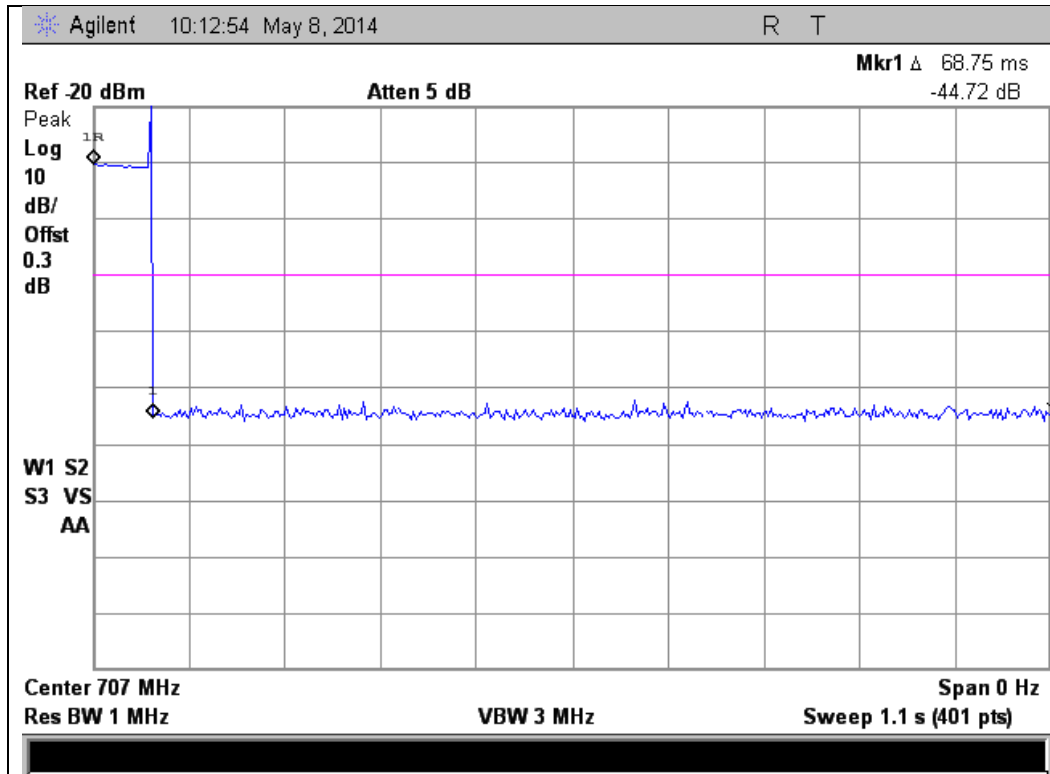
Downlink Restart Count Test Results

Frequency Band (MHz)	Restarts	Limit	Result
728 - 746	3	≤5	Pass



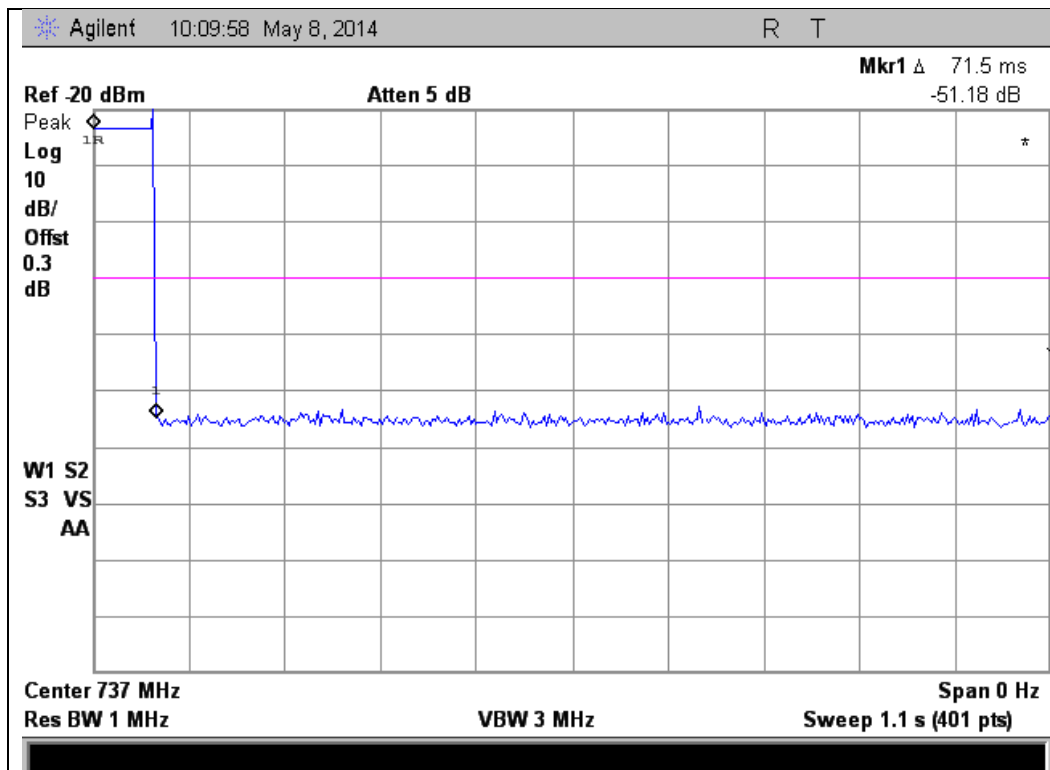
Uplink Detection Time Test Results

698 - 716 MHz Band



Downlink Detection Time Test Results

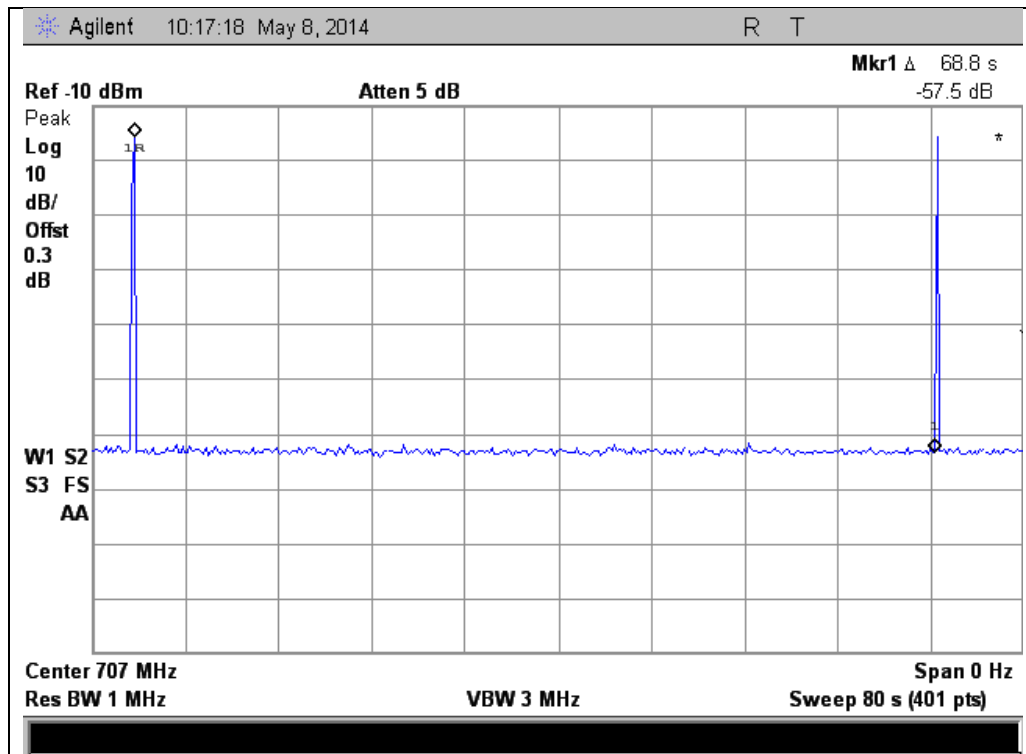
728 - 746 MHz Band





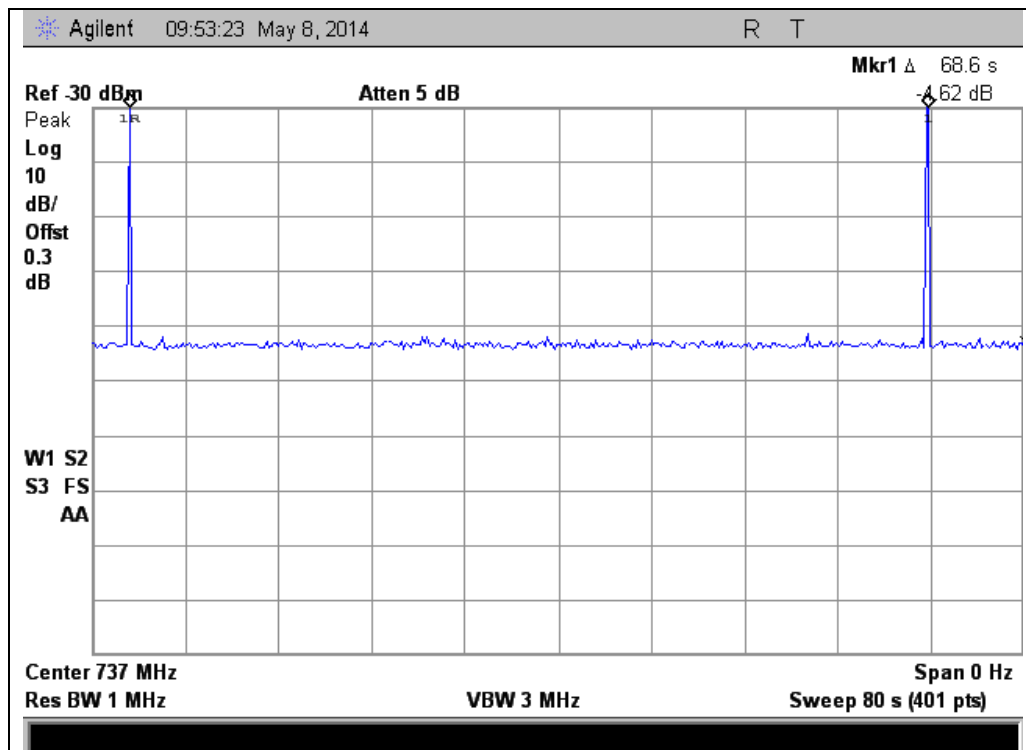
Uplink Restart Time Test Results

698 - 716 MHz Band



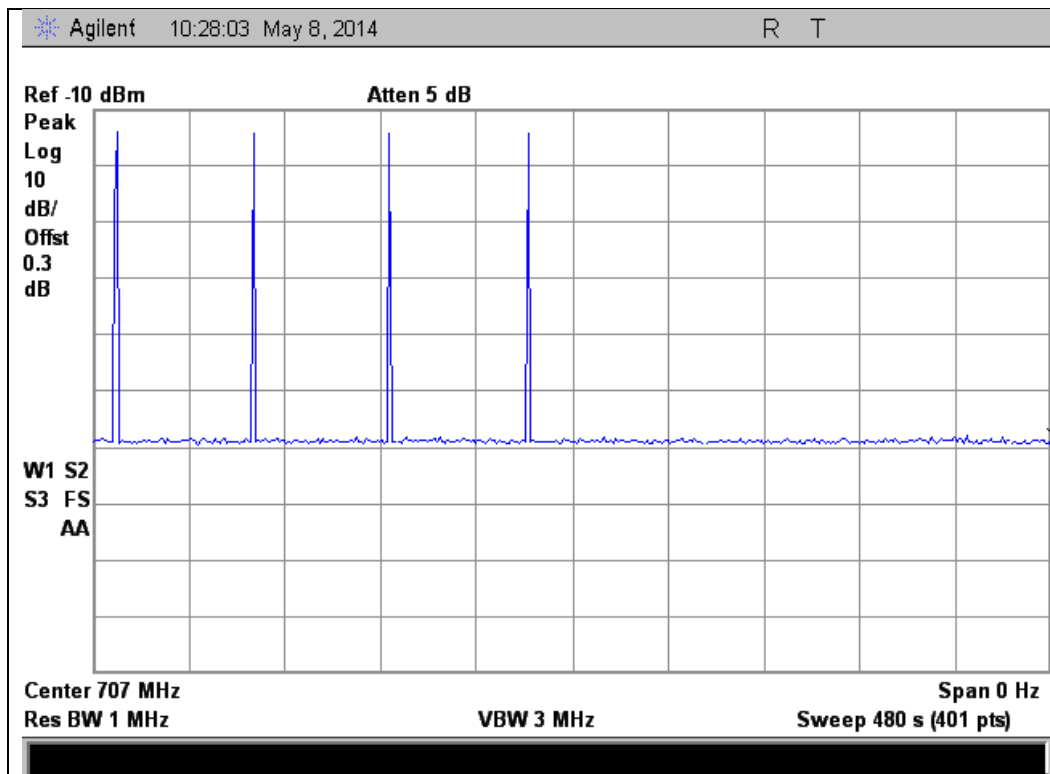
Uplink Restart Time Test Results

728 - 746 MHz Band

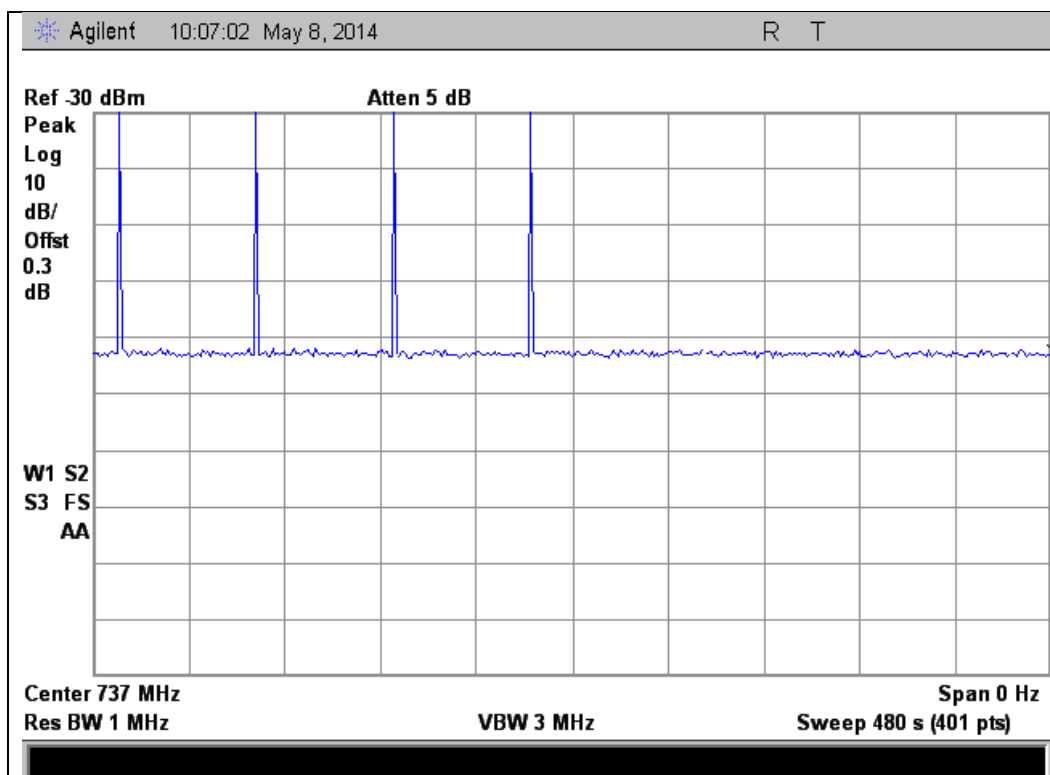




Uplink Restart Count Test Results 698 - 716 MHz Band



Downlink Restart Count Test Results 728 - 746 MHz Band



Radiated Spurious

Name of Test: Radiated Spurious
Test Equipment Utilized: i00405, i00379, i00334, i00103

Engineer: Mike Graffeo
Test Date: 5/9/2014

Test Procedure

The EUT was tested in a semi-anechoic chamber with the turntable set 3m from the receiving antenna. A spectrum analyzer was used to verify that the EUT met the requirements for Radiated Emissions. The EUT was tested by rotating it 360 degrees with the antenna in both the vertical and horizontal orientation while raised from 1 to 4 meters to ensure that the signal levels were maximized. All cable and antenna correction factors were input into the spectrum analyzer ensuring an accurate measurement in ERP/EIRP with the resultant power in dBm. A signal generator was used to provide a CW signal centered in each operational uplink and downlink band. The EUT output was terminated into a 50 Ohm non-radiating load.

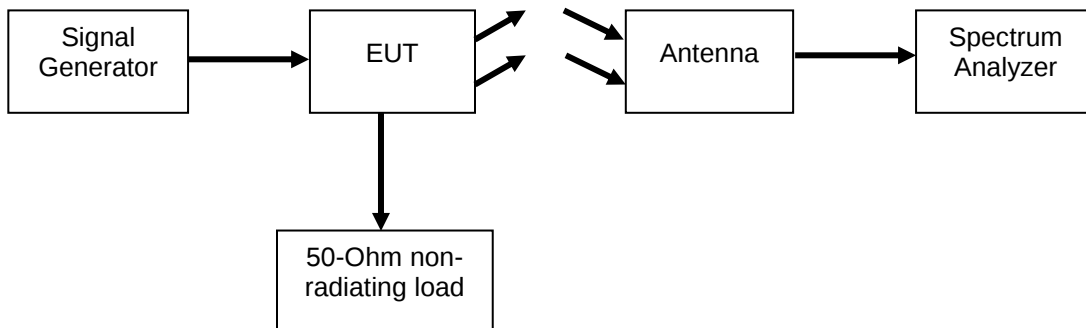
The following formula was used for calculating the limits:

Radiated Spurious Emissions Limit = $P1 - (43 + 10\text{Log}(P2)) = -13\text{dBm}$

P1 = power in dBm

P2 = power in Watts

Test Setup



Uplink Test Results

698 - 716 MHz Band 707 MHz Tuned Frequency

Measured Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Result
1414	-56.42	-13	Pass
2121	-53.98	-13	Pass
2828	-46.06	-13	Pass

Downlink Test Results

728 - 746 MHz Band 737 MHz Tuned Frequency

Measured Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Result
1474	-54.86	-13	Pass
2211	-53.58	-13	Pass
2948	-48.91	-13	Pass

No other emissions were detected. All emissions were lower than -13 dBm.
 All emissions were system noise floor.

Test Equipment Utilized

Description	Manufacturer	Model #	CT Asset #	Last Cal Date	Cal Due Date
Horn Antenna	EMCO	3115	i00103	12/11/12	12/11/14
Humidity / Temp Meter	Newport	IBTHX-W-5	i00282	3/24/14	3/24/15
Voltmeter	Fluke	75III	i00320	3/24/14	3/24/15
EMI Analyzer	Agilent	E7405A	i00379	1/14/14	1/14/15
Spectrum Analyzer	Tektronix	RSA5126A	i00424	9/22/13	9/22/14
Non-radiating load	Termaline	8201	i00334	Verified on: 1/16/14	
Signal Generator	Rohde & Schwarz	SMU200A	i00405	12/11/13	12/11/14
RF Directional Coupler	Meca	CS06-1.500V	i00412	Verified on: 1/16/14	

In addition to the above listed equipment standard RF connectors and cables were utilized in the testing of the described equipment. Prior to testing these components were tested to verify proper operation.

END OF TEST REPORT