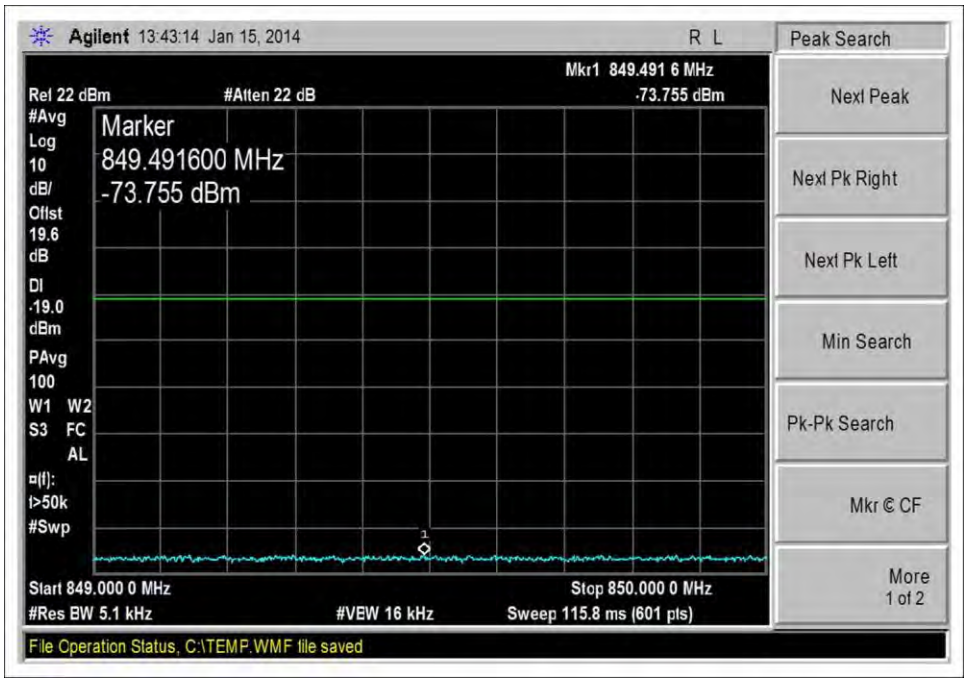
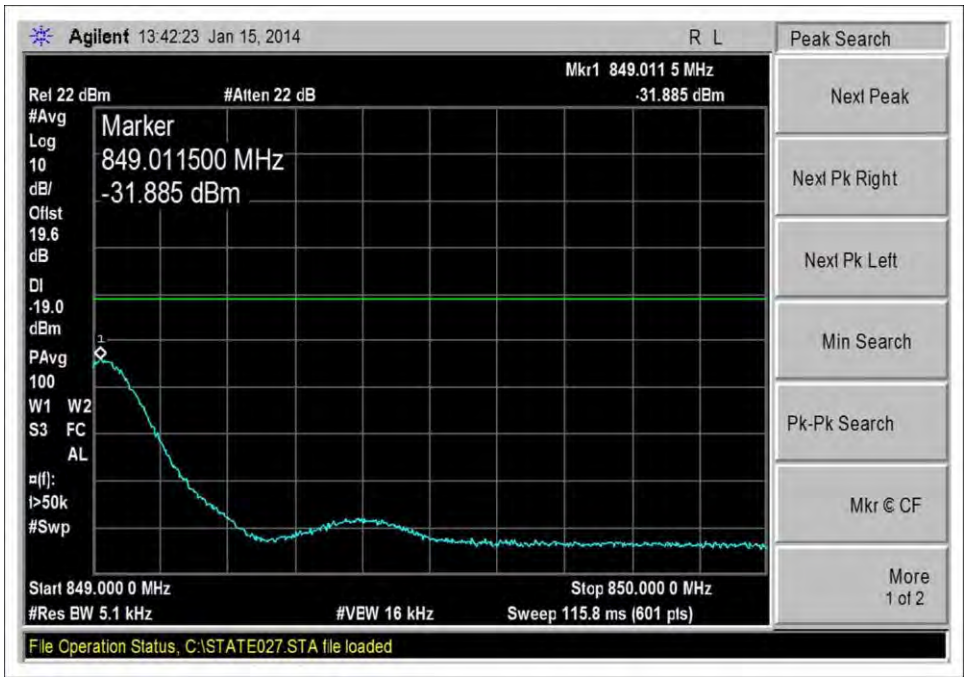
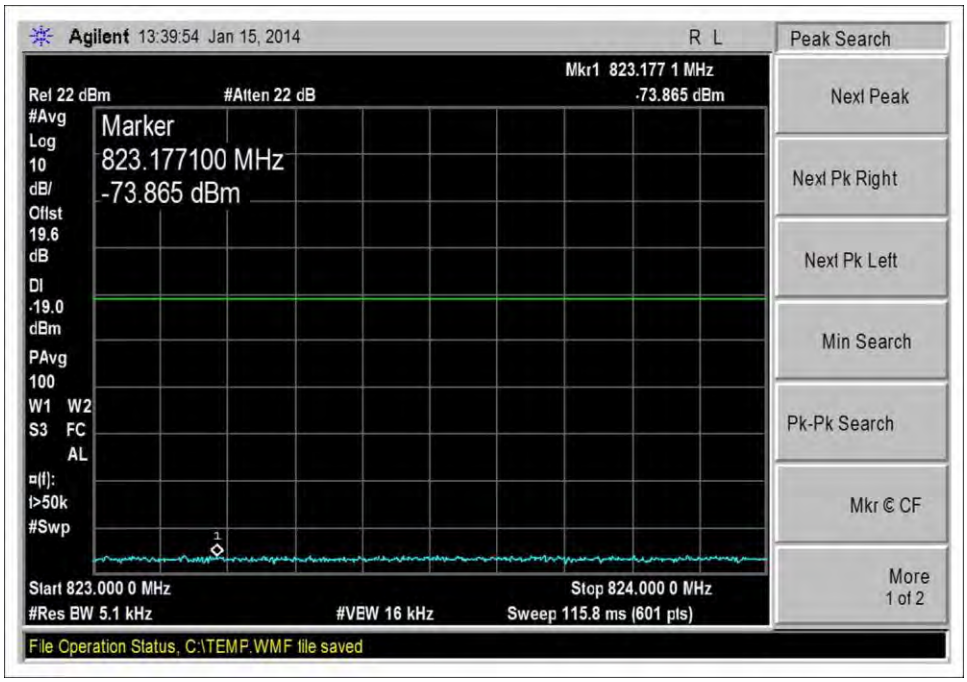


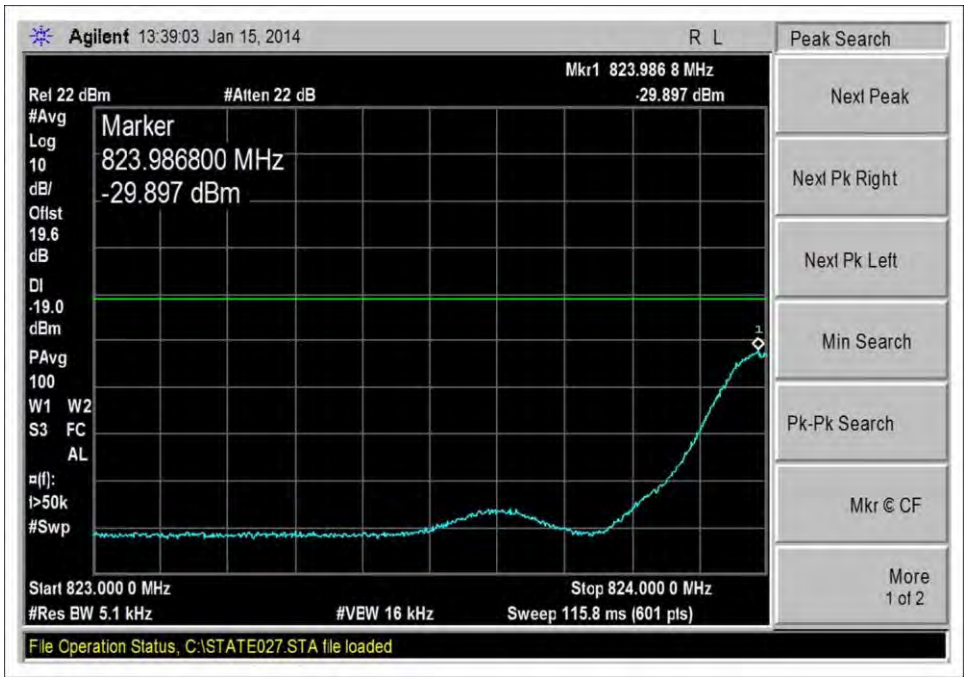

UL_824-849MHz_GSM_H_0dBm



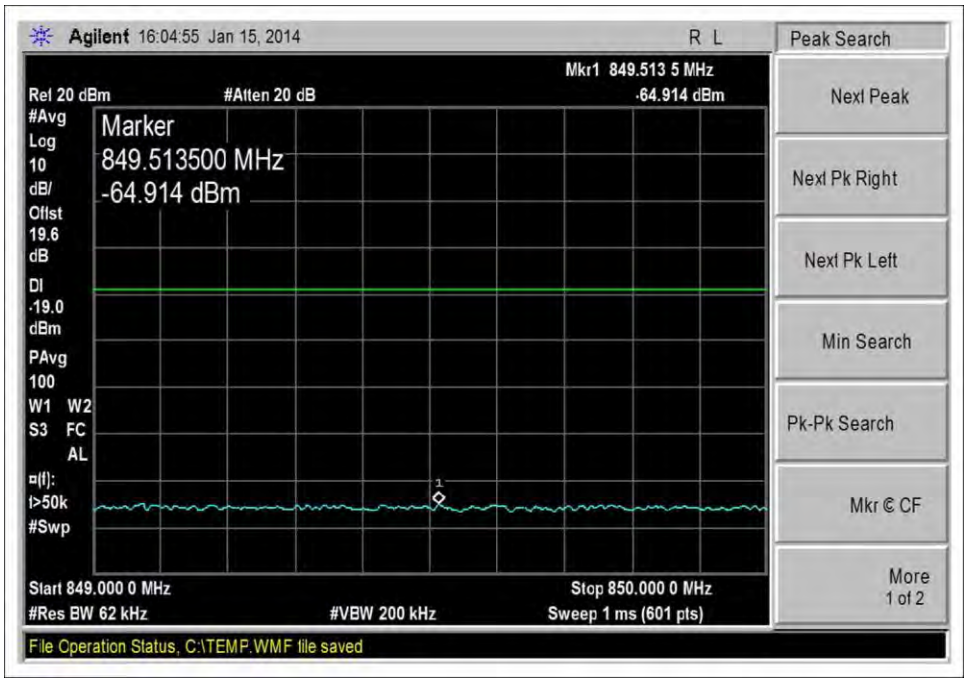

UL_824-849MHz_GSM_H_-37dBm



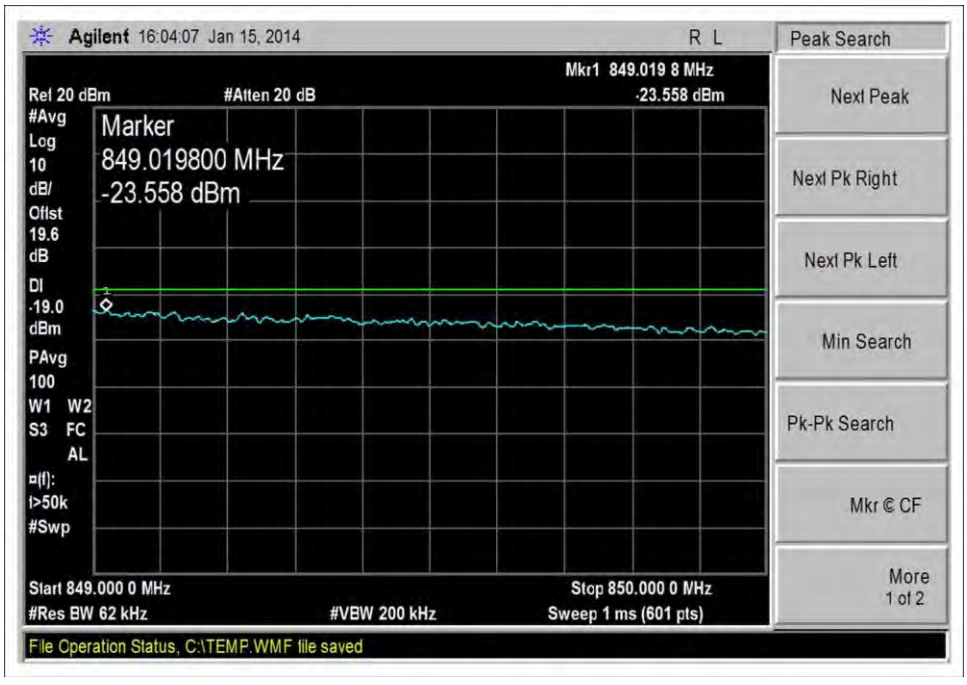

UL_824-849MHz_GSM_L_0dBm



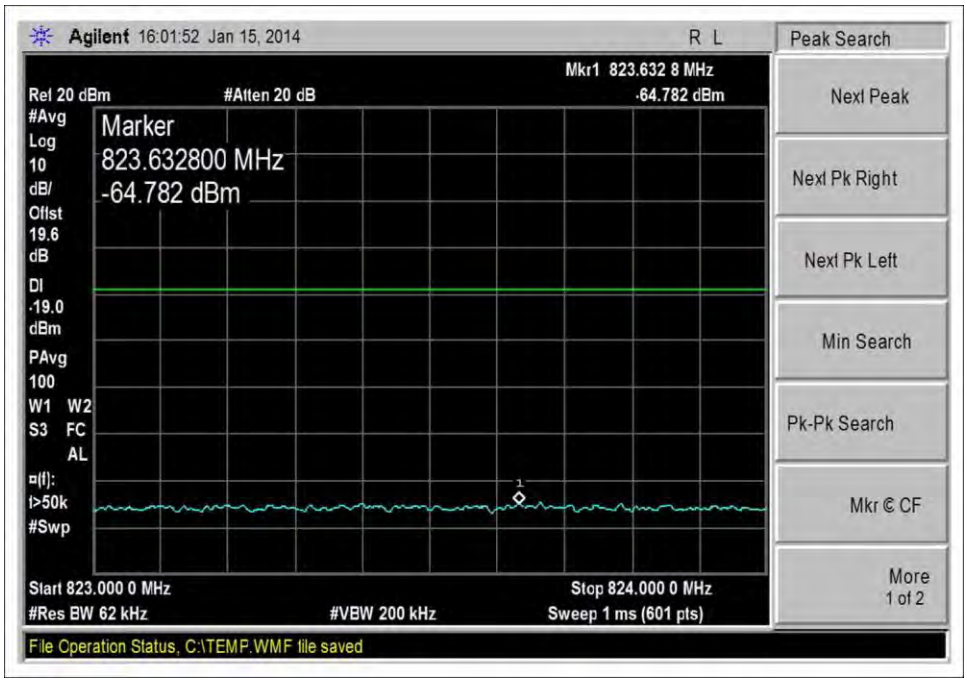

UL_824-849MHz_GSM_L_-37dBm



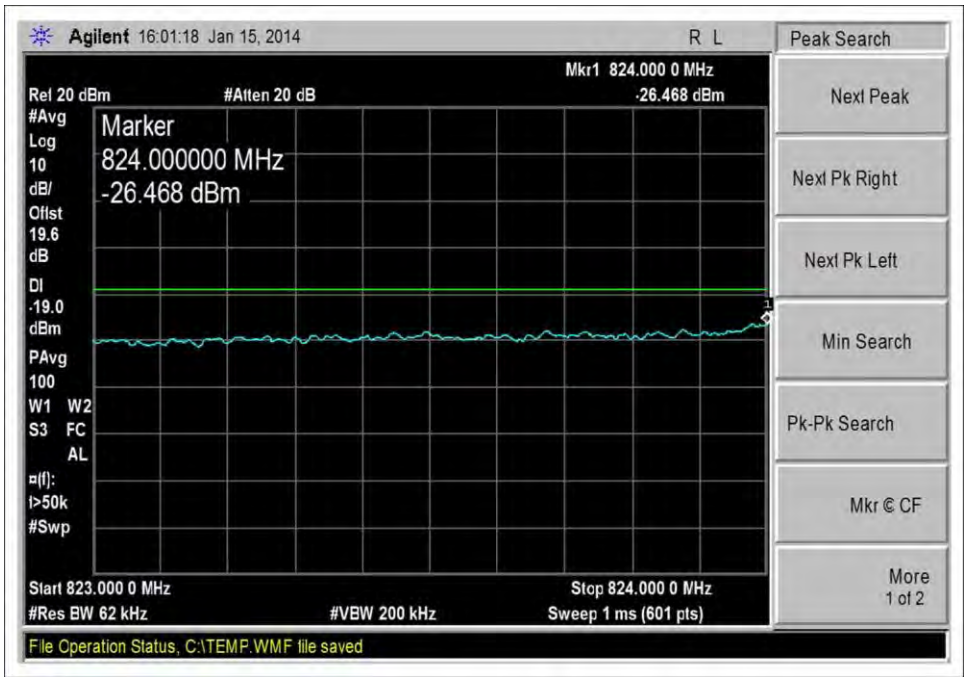

UL_824-849MHz_LTE_H_0dBm



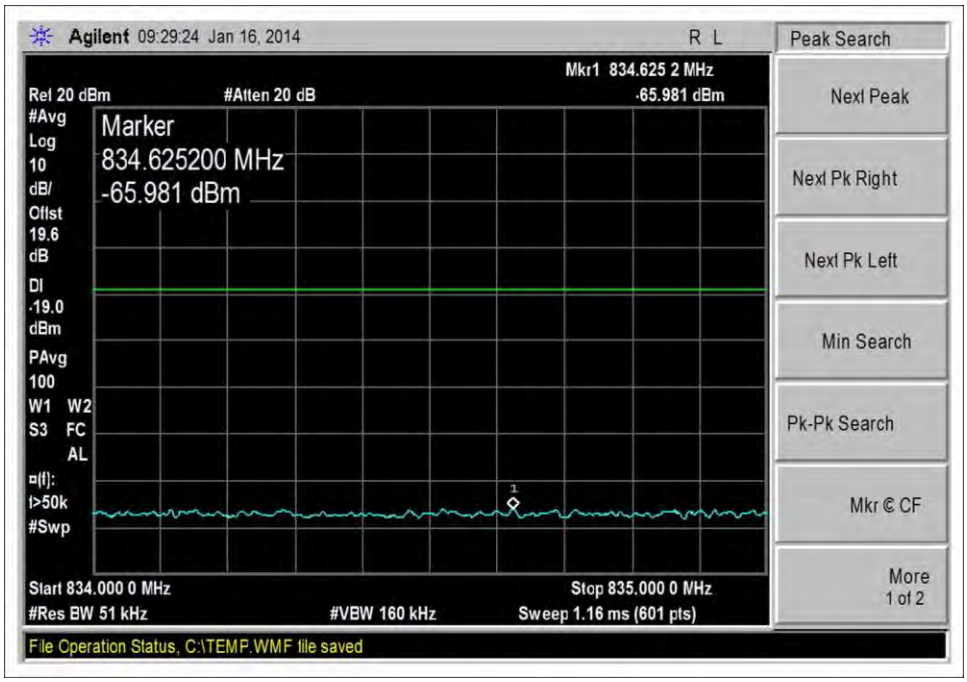

UL_824-849MHz_LTE_H_-39dBm



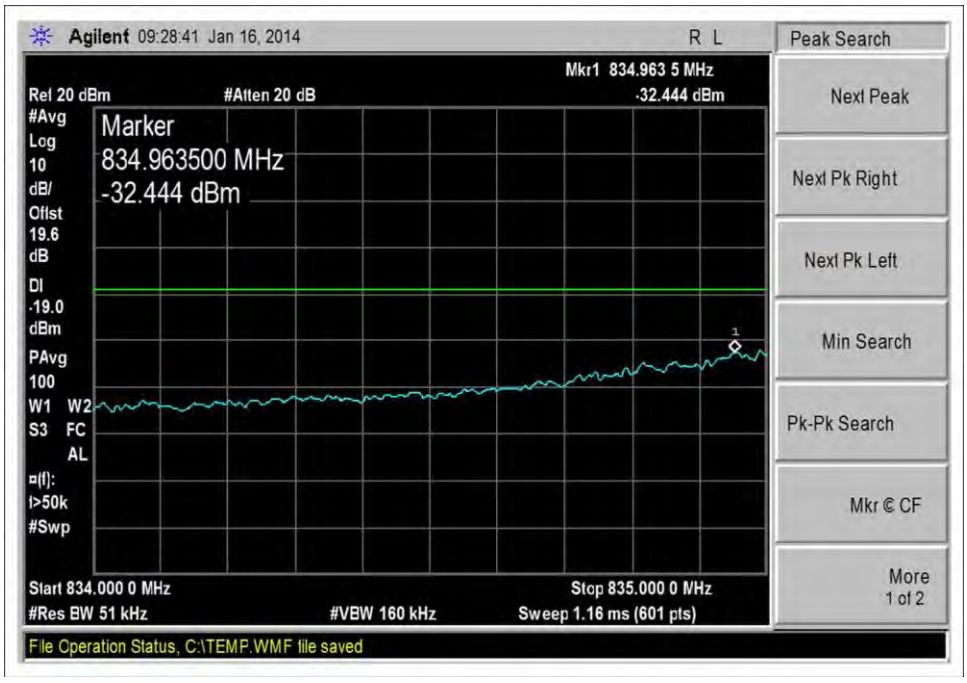

UL_824-849MHz_LTE_L_0dBm



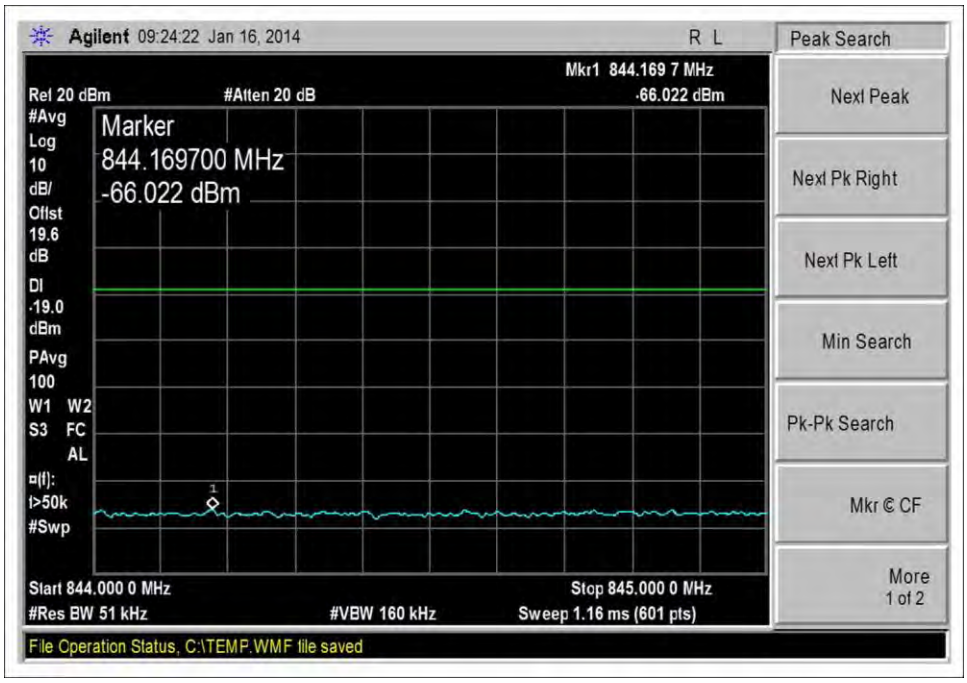

UL_824-849MHz_LTE_L_-40dBm



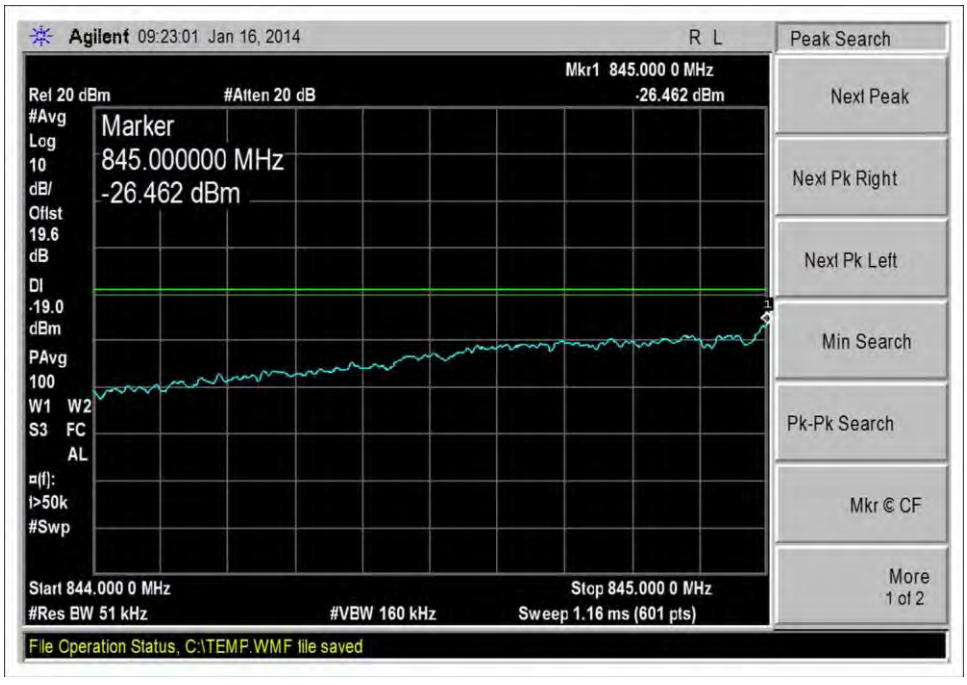

UL_835-845MHz_CDMA_L_0dBm



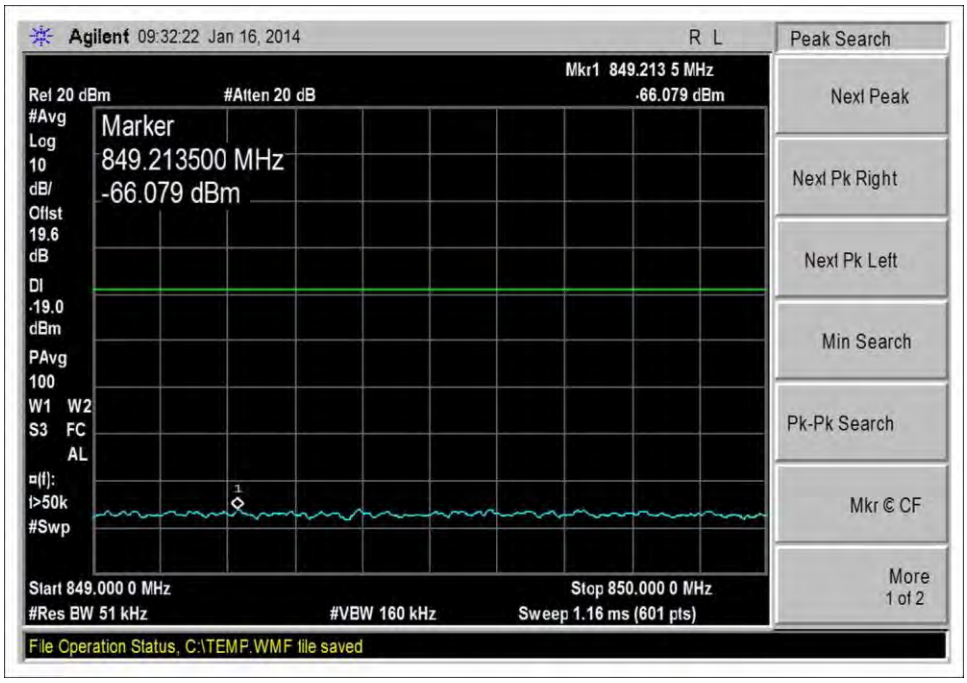

UL_835-845MHz_CDMA_L_-42dBm



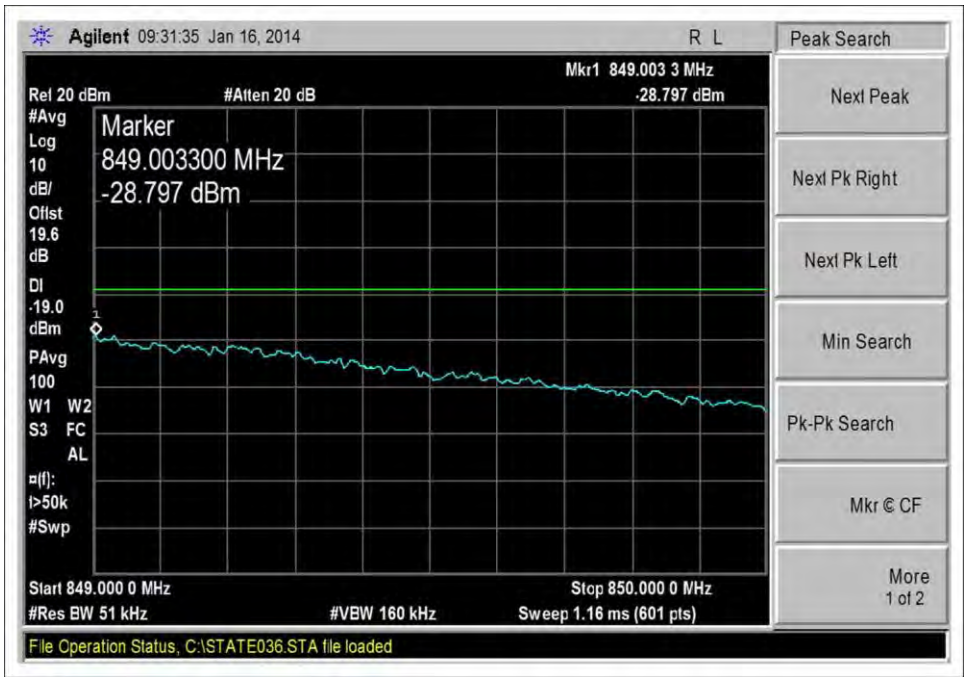

UL_845-846.5MHz_CDMA_L_0dBm



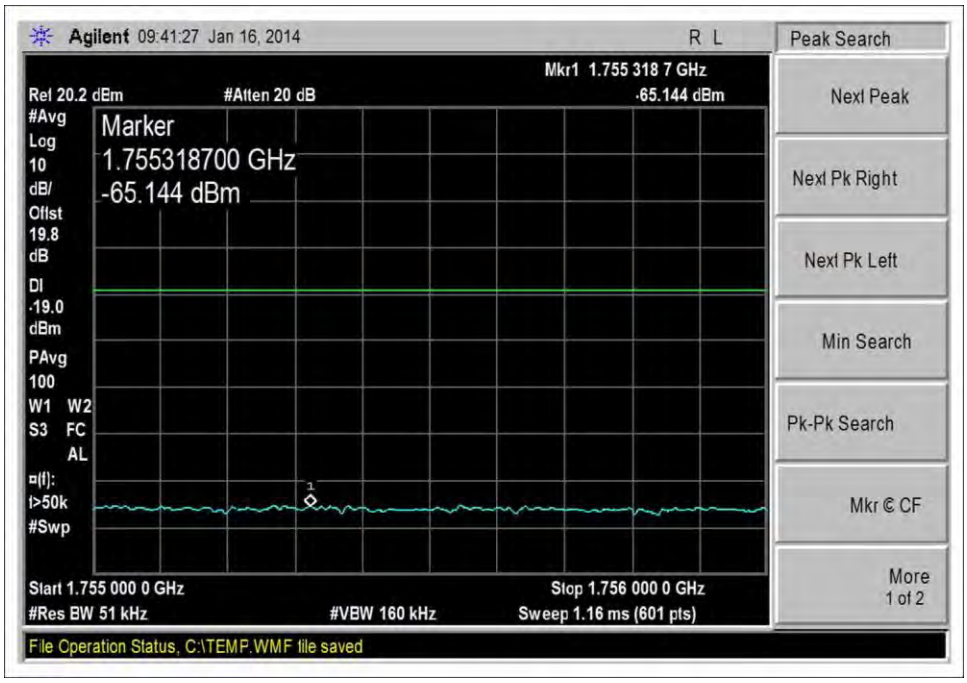

UL_845-846.5MHz_CDMA_L_-43dBm



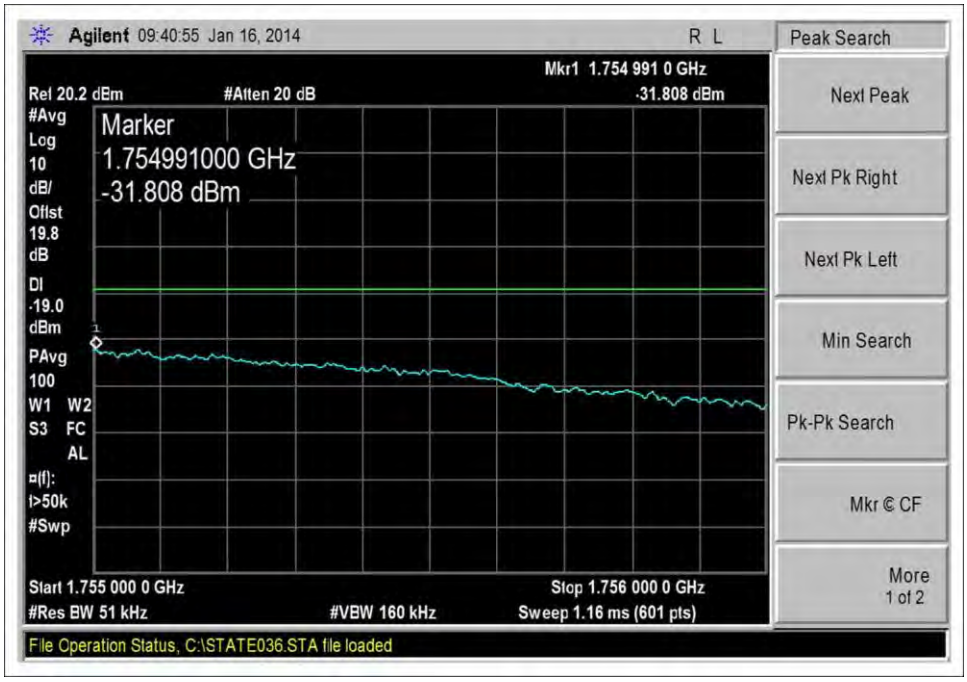

UL_846.5-849MHz_CDMA_H_0dBm



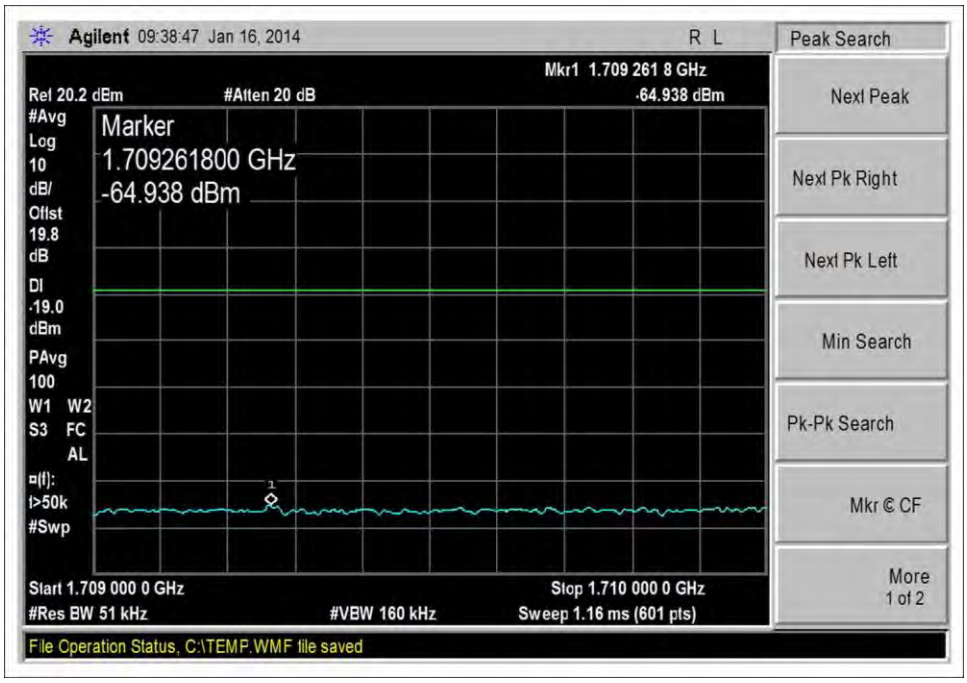

UL_846.5-849MHz_CDMA_H_-42dBm



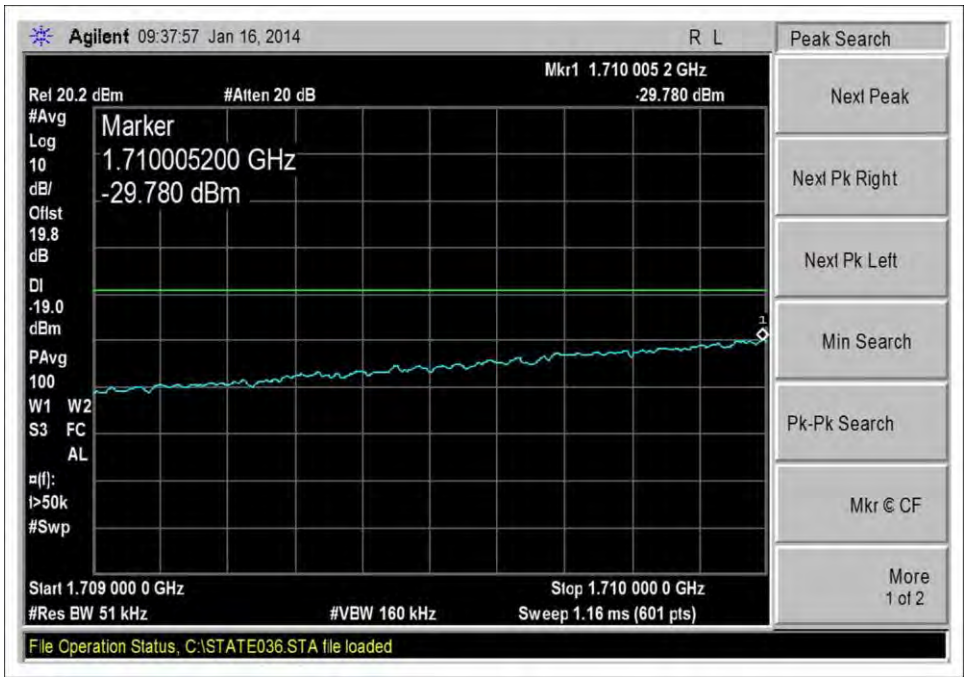

UL_1710-1755MHz_CDMA_H_0dBm



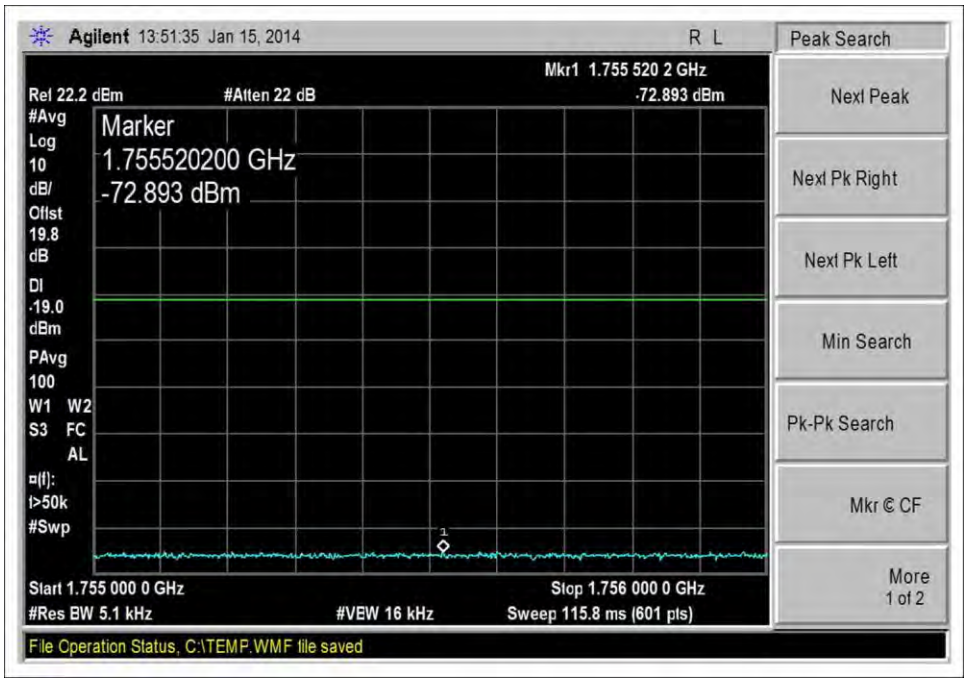

UL_1710-1755MHz_CDMA_H_-44dBm



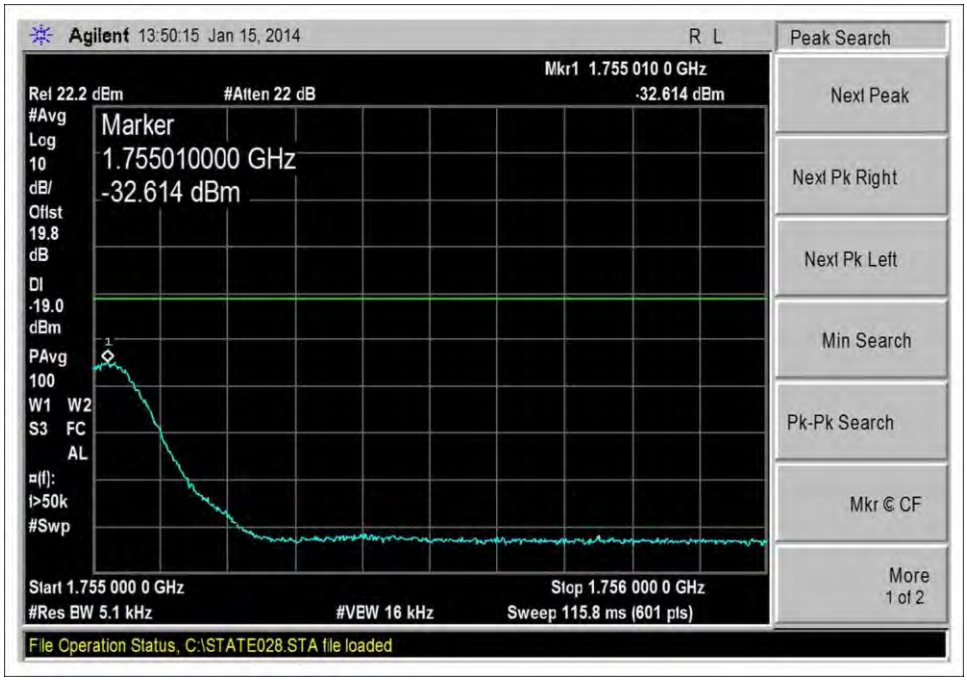

UL_1710-1755MHz_CDMA_L_0dBm



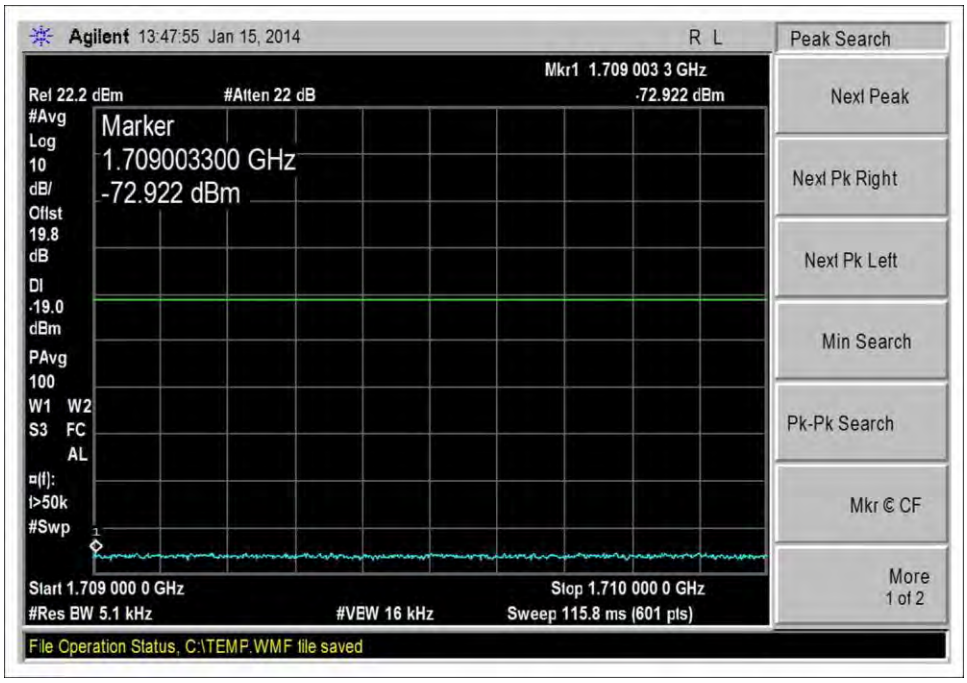

UL_1710-1755MHz_CDMA_L_-43dBm



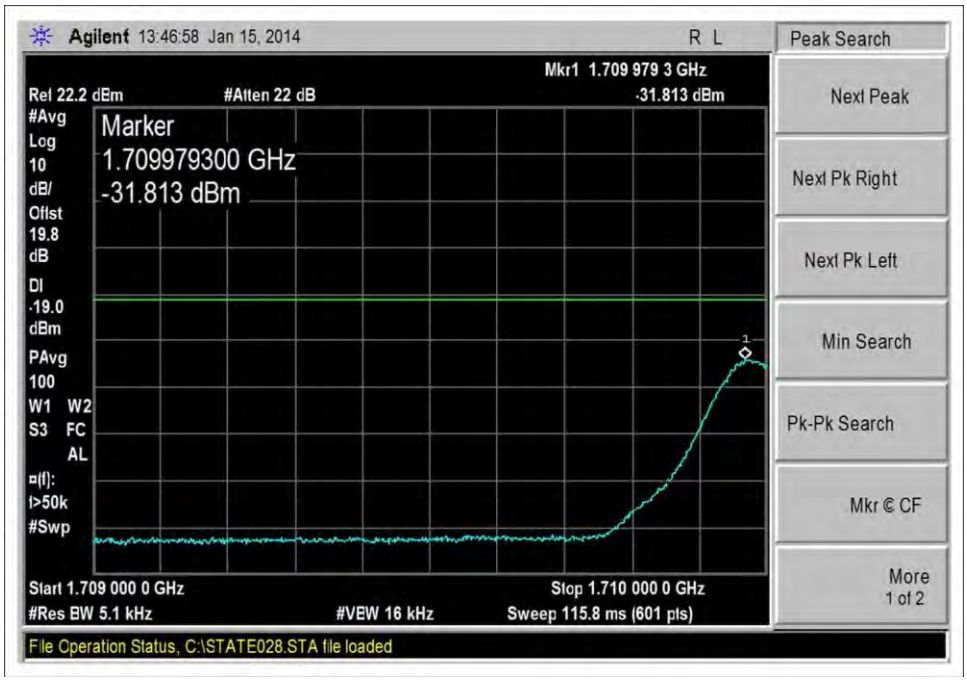

UL_1710-1755MHz_GSM_H_0dBm



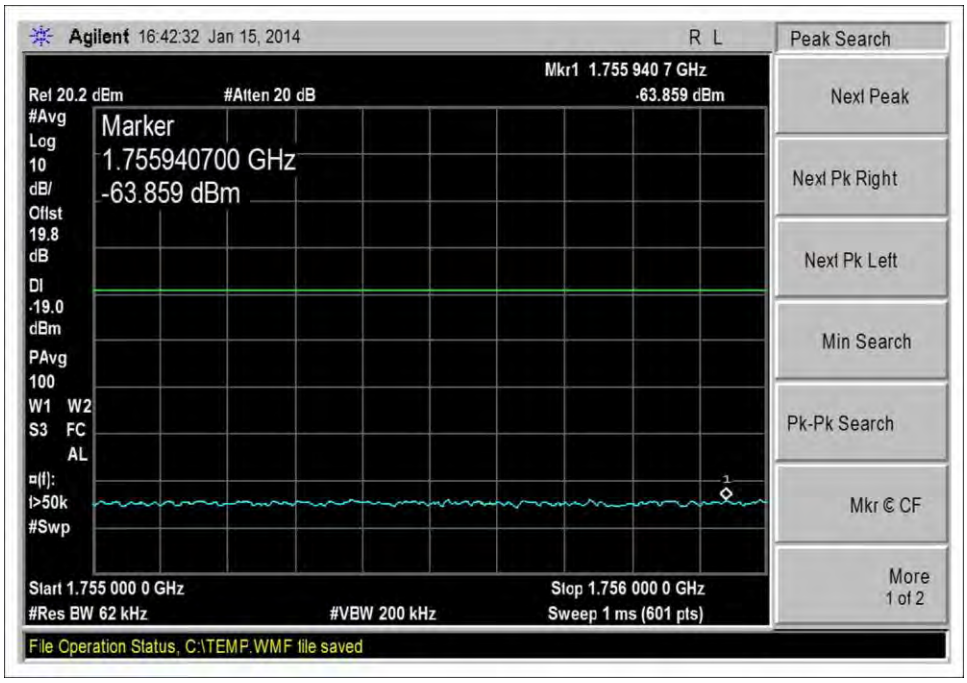

UL_1710-1755MHz_GSM_H_-40dBm



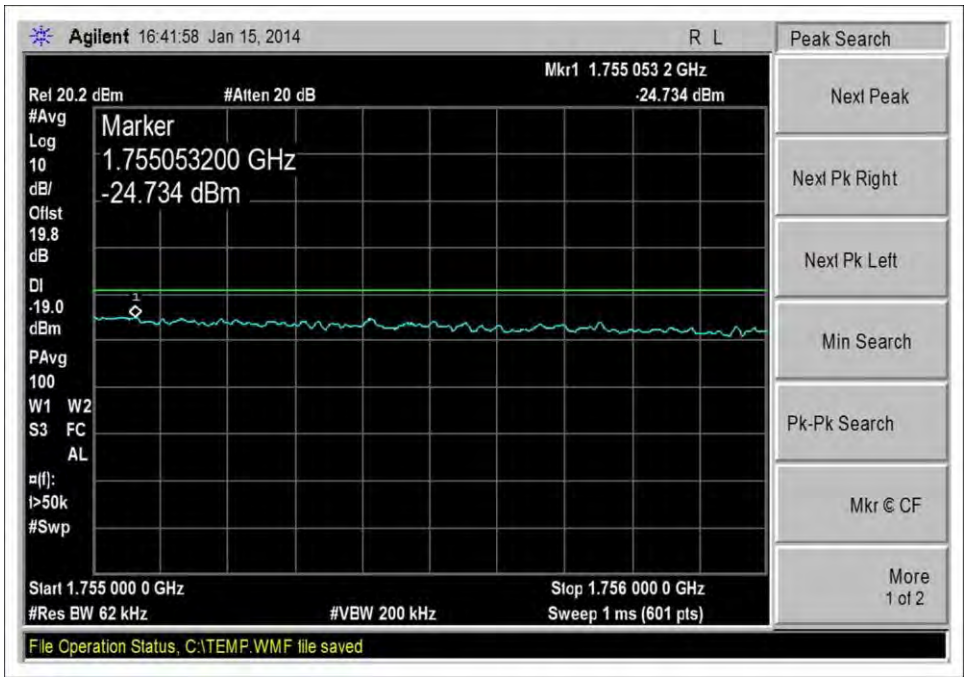

UL_1710-1755MHz_GSM_L_0dBm



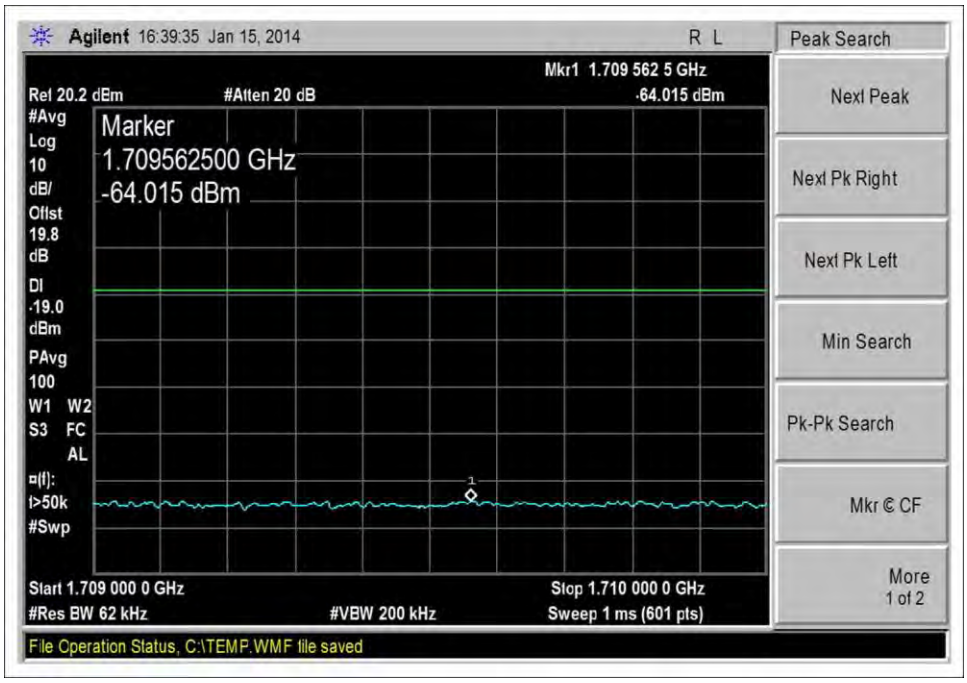

UL_1710-1755MHz_GSM_L_-39dBm



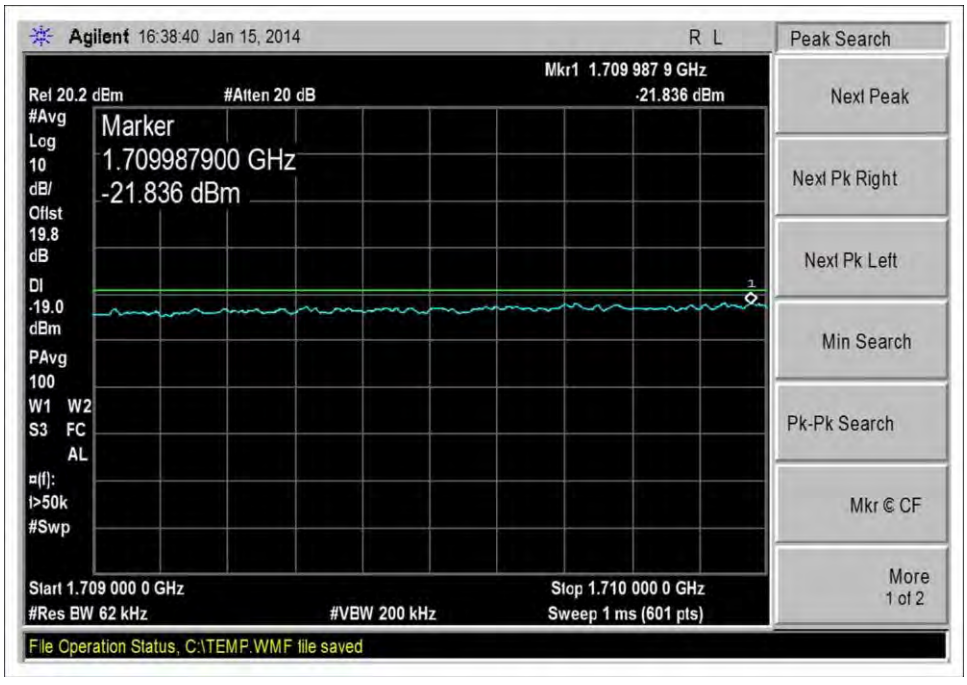

UL_1710-1755MHz_LTE_H_0dBm



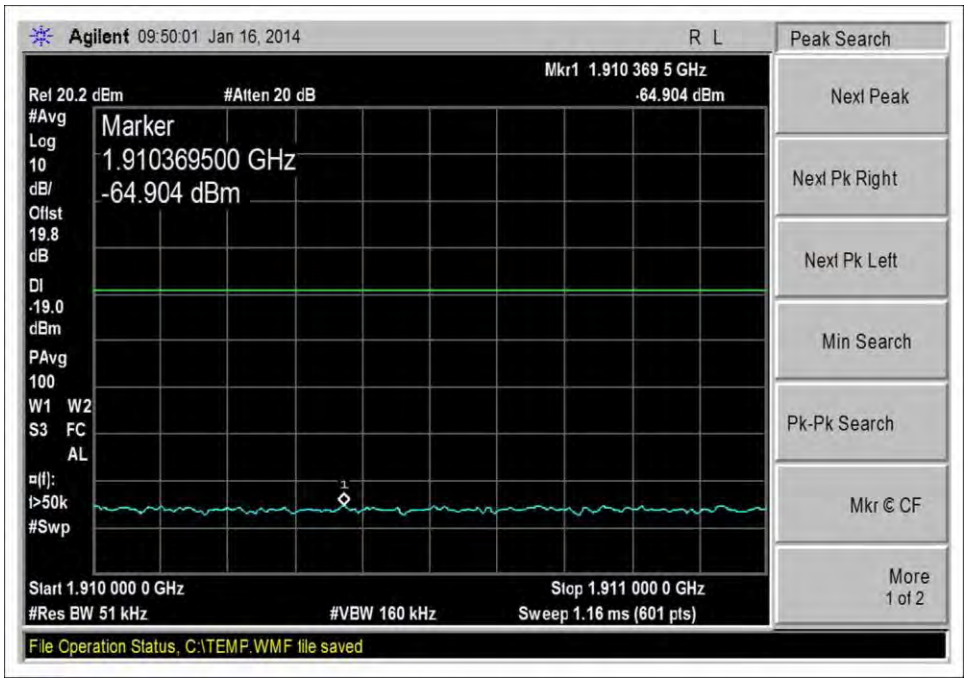

UL_1710-1755MHz_LTE_H_-41dBm



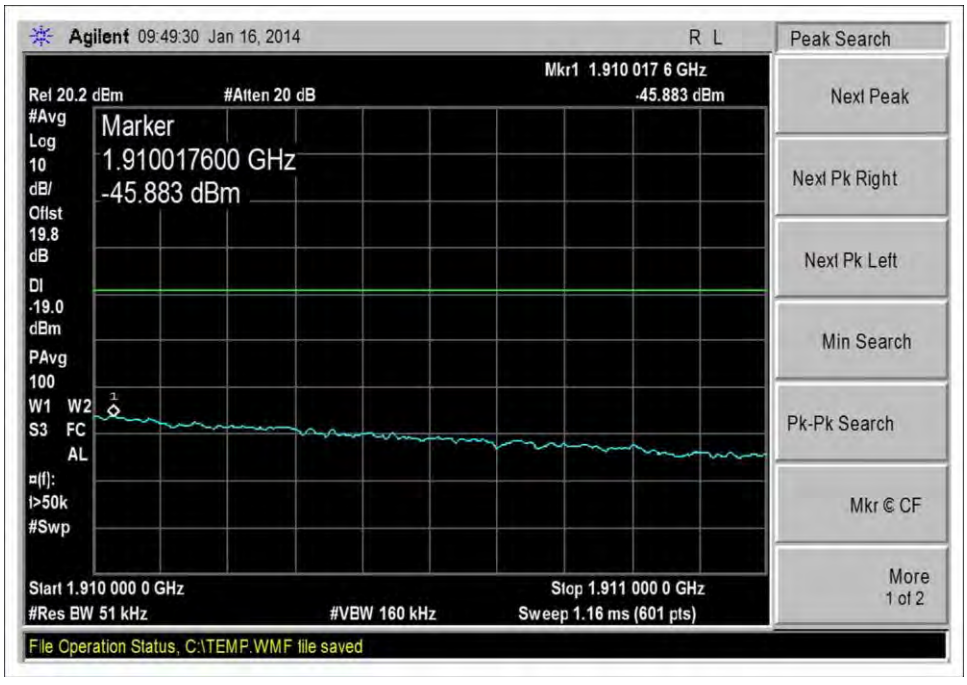

UL_1710-1755MHz_LTE_L_0dBm



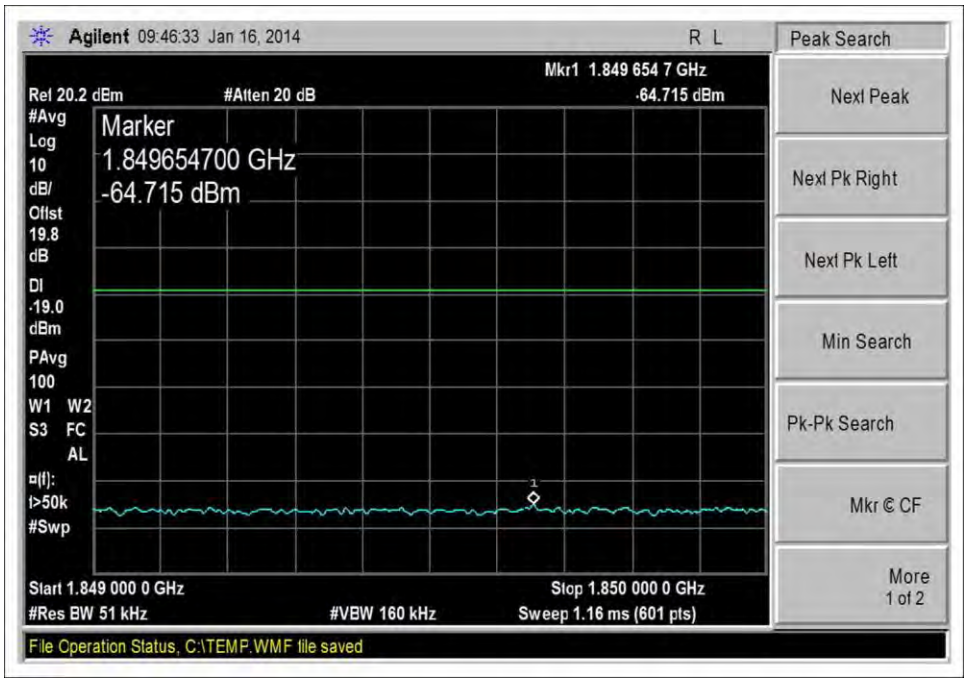

UL_1710-1755MHz_LTE_L_-40dBm



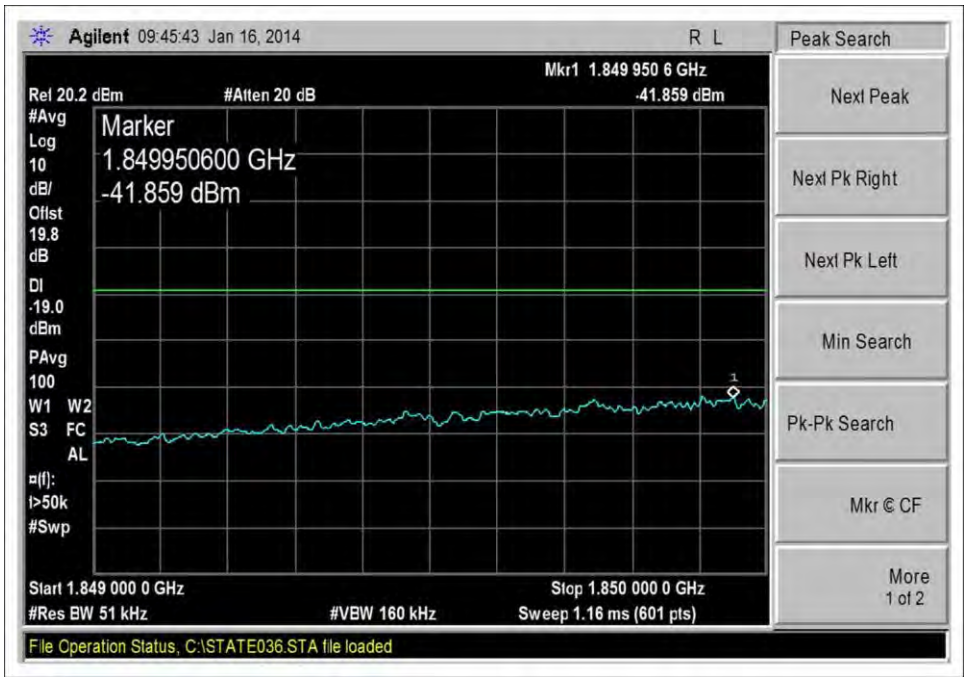

UL_1850-1910MHz_CDMA_H_0dBm



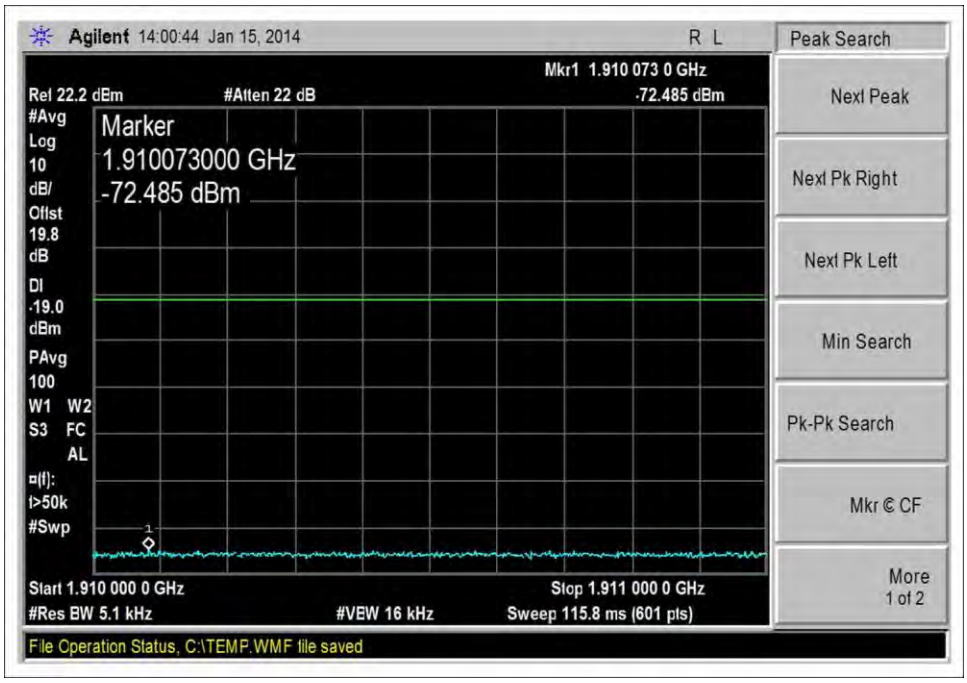

UL_1850-1910MHz_CDMA_H_-41dBm



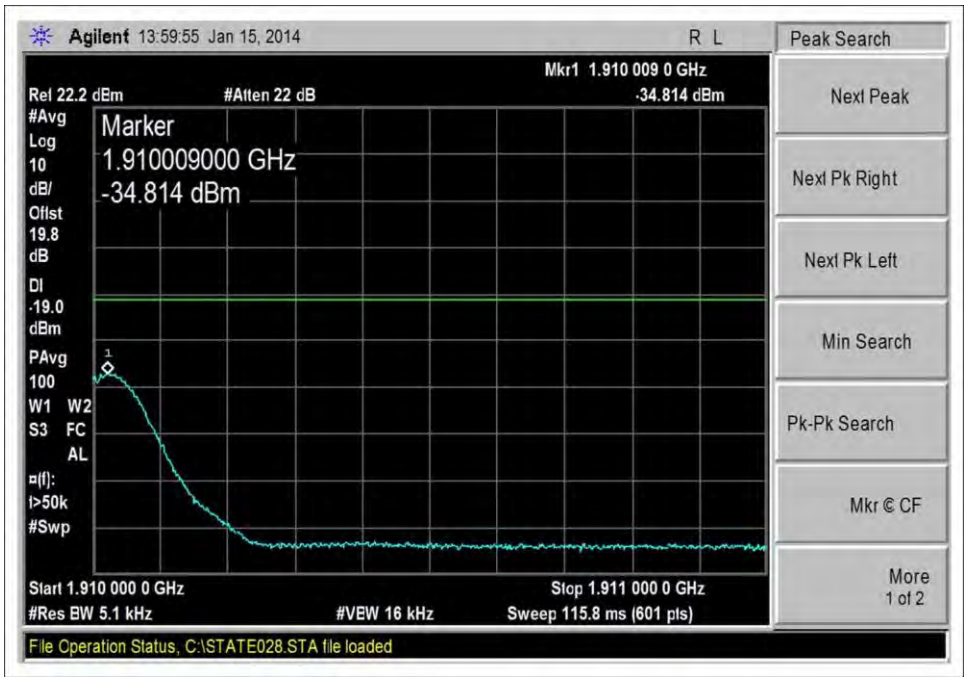

UL_1850-1910MHz_CDMA_L_0dBm



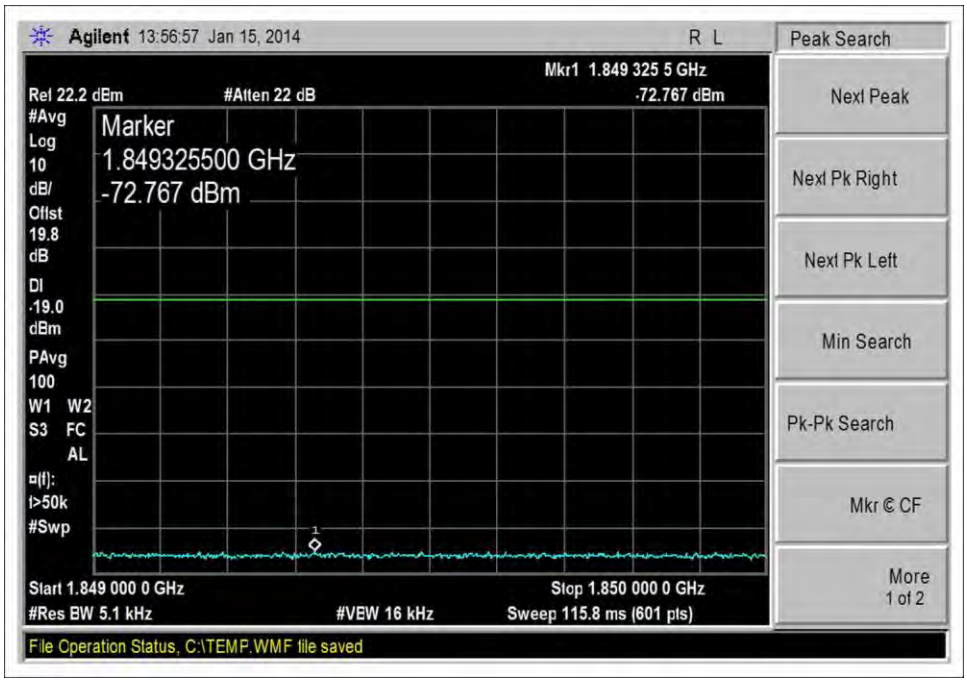

UL_1850-1910MHz_CDMA_L_-39dBm



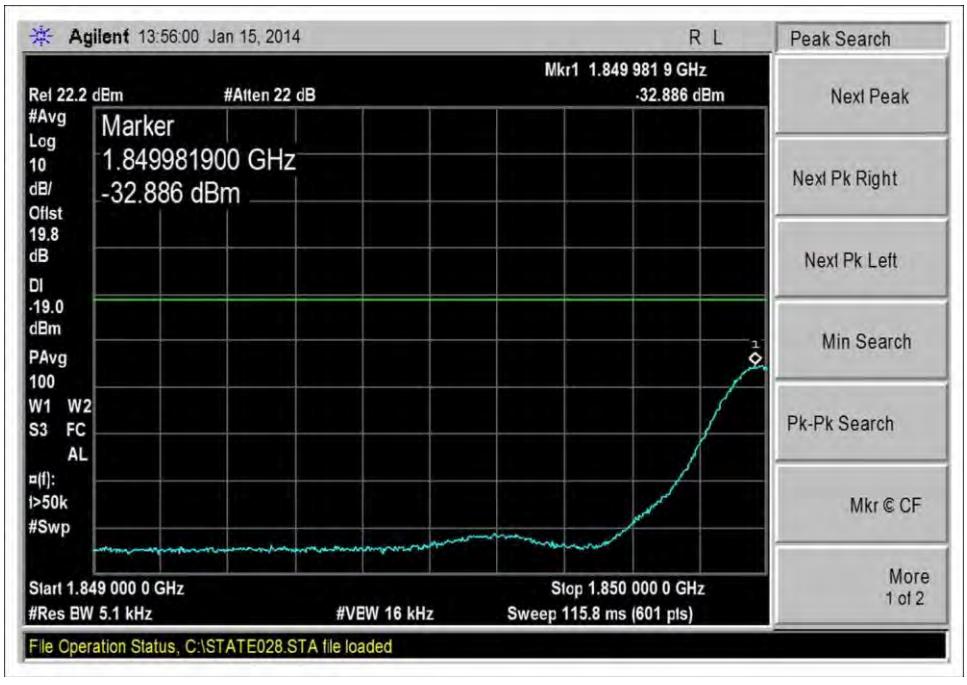

UL_1850-1910MHz_GSM_H_0dBm



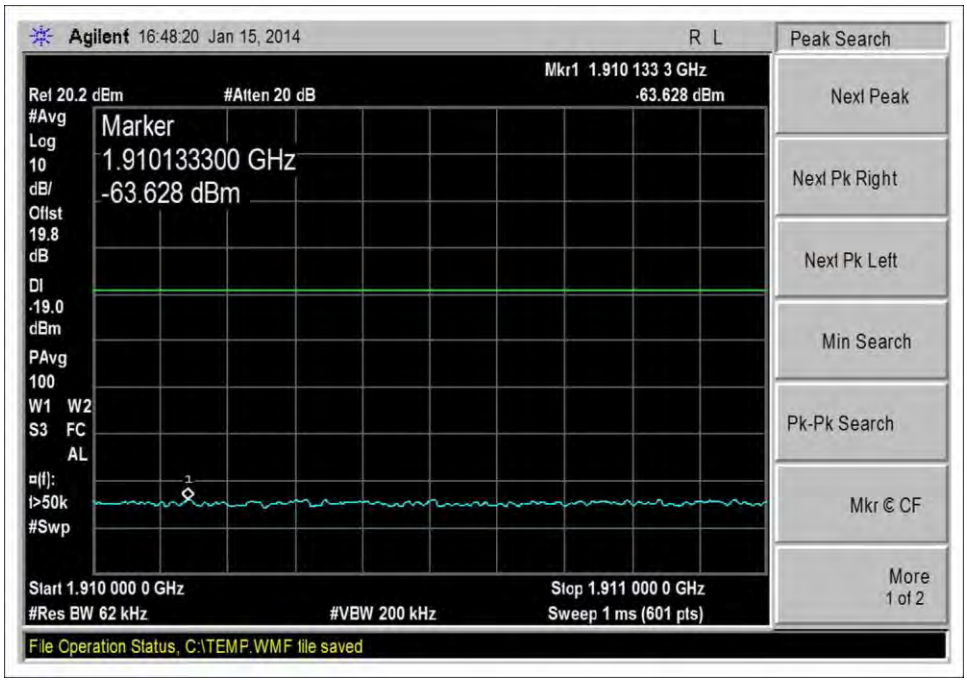

UL_1850-1910MHz_GSM_H_-37dBm



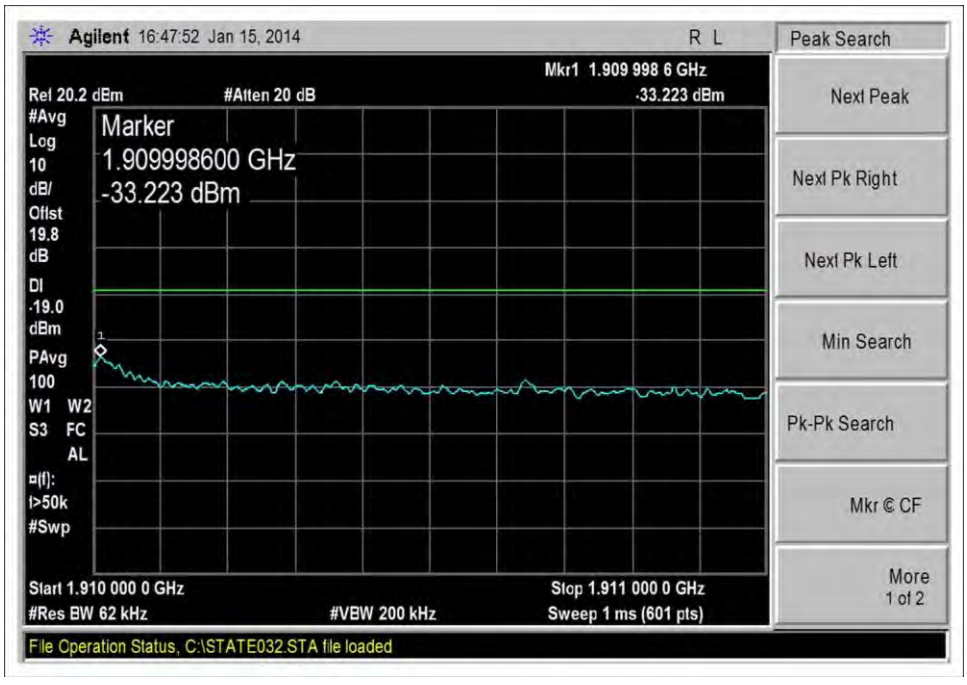

UL_1850-1910MHz_GSM_L_0dBm



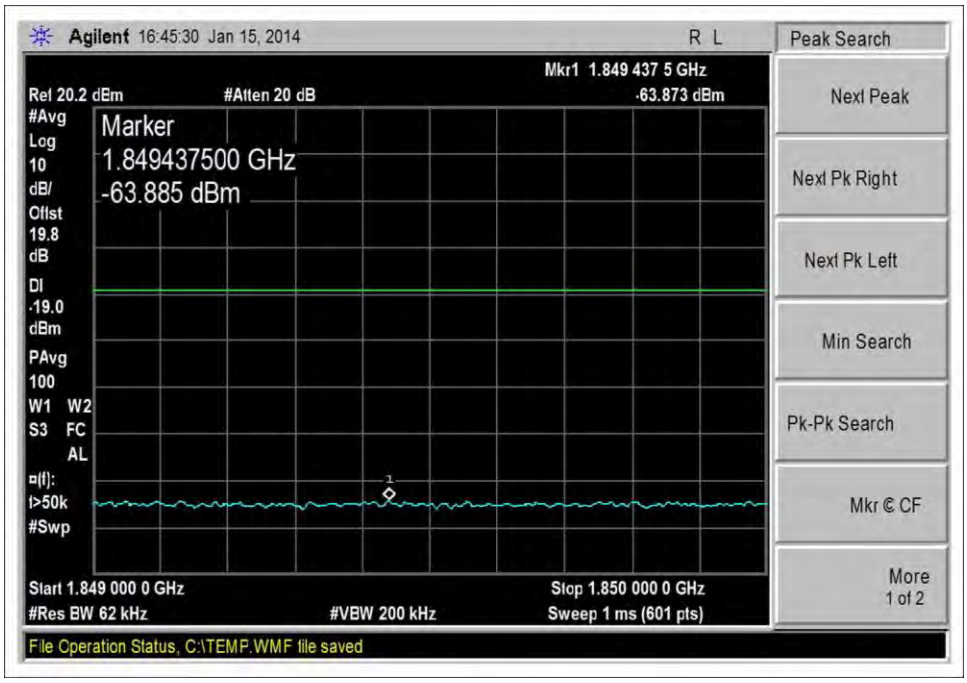

UL_1850-1910MHz_GSM_L_-34dBm



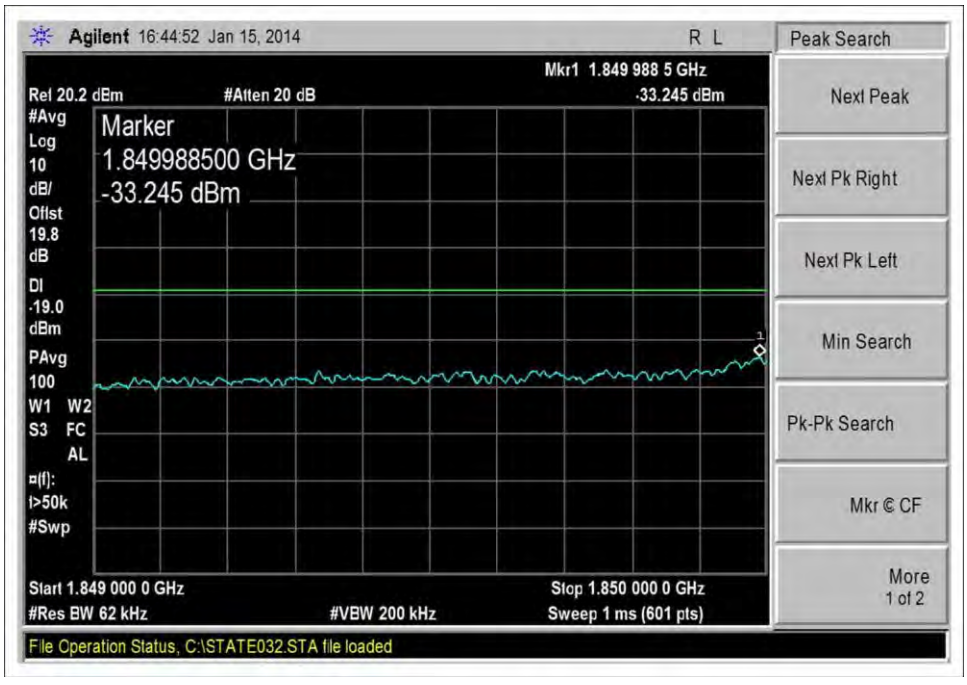

UL_1850-1910MHz_LTE_H_0dBm




UL_1850-1910MHz_LTE_H_-39dBm




UL_1850-1910MHz_LTE_L_0dBm




UL_1850-1910MHz_LTE_L_-37dBm

## Test Setup Photo(s)

# Clause 7.7 Noise limit

## Test Conditions / Setup

Test Location: CKC Laboratories • 110 Olinda Place • Brea, CA 92823 • 714-993-6112

Customer: **Cellphone-Mate, Inc.**
Specification: **7.7 Noise Limits**
Work Order #: **95308** Date: 01/16,17,21/2014
Test Type: **Conducted Emissions**
Equipment: Fixed Wideband Consumer Signal Booster
Manufacturer: Cellphone-Mate, Inc. Tested By: S. Yamamoto
Model: Fusion-5 110V 60Hz
S/N: (none)

***Test Equipment*:**

| Asset # | Description | Model | Calibration Date | Cal Due Date |
|---|---|---|---|---|
| 02672 | Spectrum Analyzer | E4446A | 8/14/2013 | 8/14/2015 |
| 03431 | Attenuator | 89-20-21 | 9/5/2013 | 9/5/2015 |
| C00082 | Coupler | MECA Electronics, Inc. | 8/21/2013 | 8/21/2015 |
| 03412 | Filter | PE8705 | 8/26/2013 | 8/26/2015 |
| 03413 | Filter | PE8706 | 8/26/2013 | 8/26/2015 |
| 03414 | Filter | PE8707 | 8/26/2013 | 8/26/2015 |
| 03415 | Filter | PE8708 | 8/26/2013 | 8/26/2015 |
| 03447 | Filter | PE8710 | 9/20/2013 | 9/20/2015 |
| 03448 | Filter | PE8711 | 9/20/2013 | 9/20/2015 |
| 03446 | Filter | 4FV50-707/H18-O/O | 1/6/2014 | 1/6/2016 |
| 03467 | Filter | 4FV50-731/H30-O/O | 1/6/2014 | 1/6/2016 |
| 03468 | Filter | 4CS10-781.5/E12.2-O/O | 1/6/2014 | 1/6/2016 |
| 03469 | Filter | 4CS10-751.5/E12-O/O | 1/6/2014 | 1/6/2016 |
| AN02946 | Cable | 32022-2-2909K-36TC | 7/31/2013 | 7/31/2015 |

***Equipment Under Test* (* = EUT):**

| Function | Manufacturer | Model # | S/N |
|---|---|---|---|
| Fixed Wideband Consumer Signal Booster * | Cellphone-Mate, Inc. | Fusion-5 | (none) |

***Support Devices:***

| Function | Manufacturer | Model # | S/N |
|---|---|---|---|
| Signal Generator | Agilent | E4438B | US40052164 |
| AC to 9Vdc Power Adapter | SureCall | GFP451DA-0945-1 | (none) |

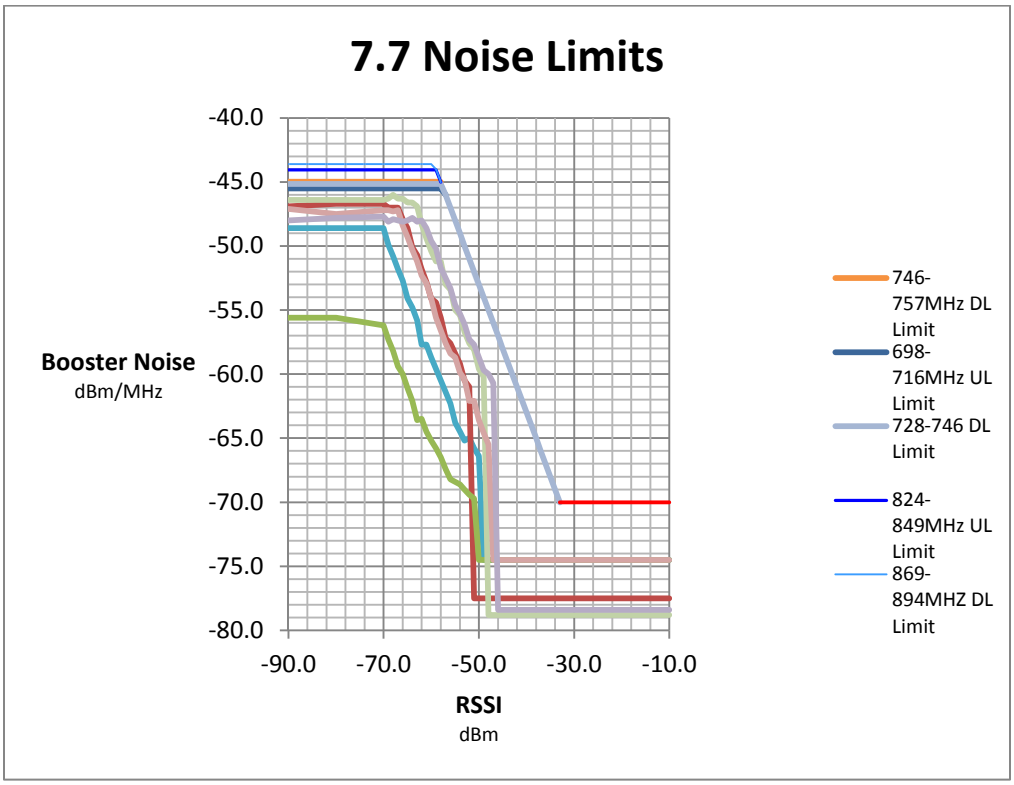
***Test Conditions / Notes:***

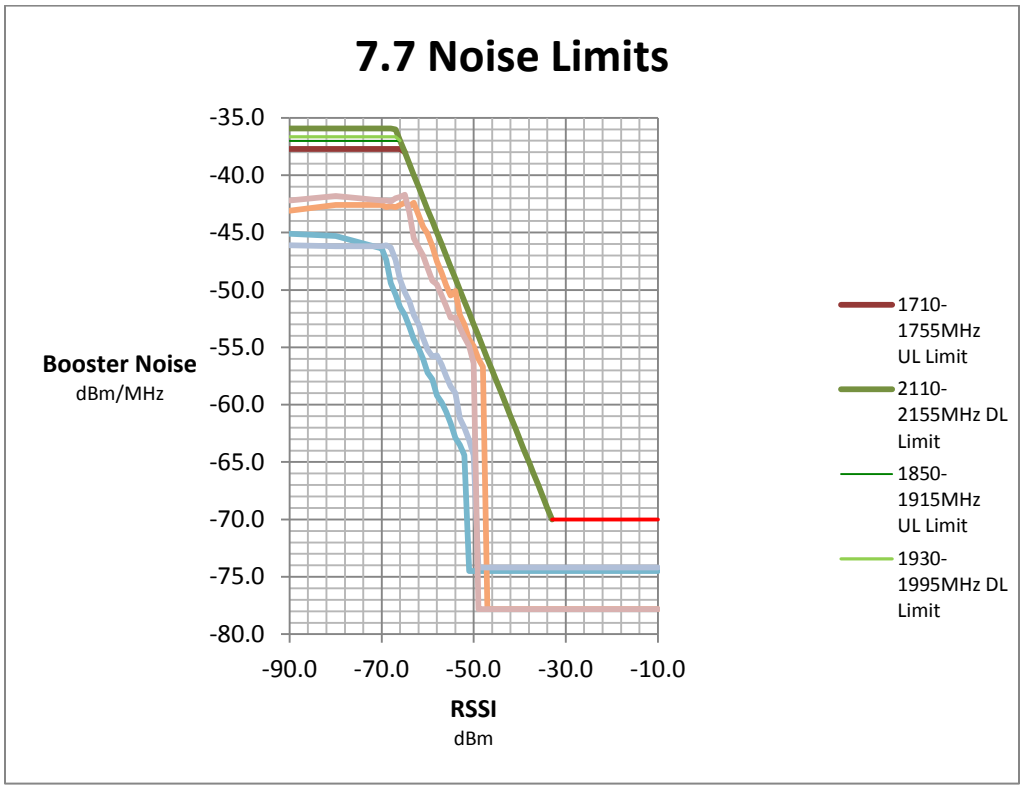
The EUT is placed on the test bench. Gain is set to the maximum gain. Evaluation performed at the Outside (Donor) and Inside (Server) antenna port.
Test performed at for each of the following bands: UL 776-787MHz, UL 698-716MHz, UL 824-849MHz, UL 1710-1755MHz, UL 1850-1910MHz, DL 746-757MHz, DL 728-746MHz, DL 869-894MHz, DL 2110-2155MHz, DL 1930-1990MHz
Noise Limits test procedure: The test was performed in accordance with section 7.7 of the FCC Publication: 935210 D03 Wideband Consumer Signal Booster Measurement Guidance DR04-41516: August 7, 2013.
Site D. Test environment conditions: 20°C, 35%, 100kPa

**Noise Limits Summary Table / Six Values Closest To Limit**

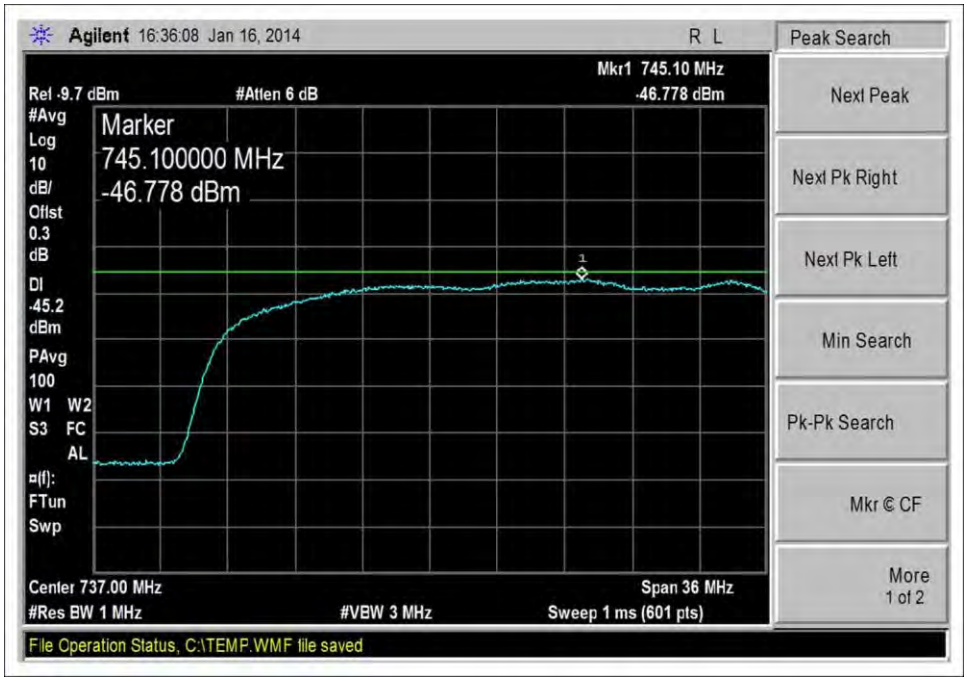
| RSSI Level (dBm) | Measured Noise Power Level (dBm/MHz) | Limit Region | Limit Line (dBm/MHz) | Margin (dB) | Frequency Band (MHz) |
|---|---|---|---|---|---|
| -90 | -48.6 | Frequency Dependent | -44.6 | -4.0 | 776-787 MHz UL |
| -80 | -48.6 | Frequency Dependent | -44.6 | -4.0 | 776-787 MHz UL |
| -70 | -48.6 | Frequency Dependent | -44.6 | -4.0 | 776-787 MHz UL |
| -33 | -74.5 | Tx Power Off | -70.0 | -4.5 | 776-787 MHz UL |
| -34 | -74.5 | RSSI Dependent | -67 | -5.5 | 776-787 MHz UL |
| -36 | -74.5 | RSSI Dependent | -69 | -7.5 | 776-787 MHz UL |
| -90 | -46.9 | Frequency Dependent | -44.6 | -2.3 | 746-757 MHz DL |
| -80 | -46.7 | Frequency Dependent | -44.6 | -2.1 | 746-757 MHz DL |
| -70 | -46.7 | Frequency Dependent | -44.6 | -2.1 | 746-757 MHz DL |
| -69 | -47.0 | Frequency Dependent | -44.6 | -2.4 | 746-757 MHz DL |
| -34 | -77.5 | RSSI Dependent | -69 | -8.5 | 746-757 MHz DL |
| -59 | -54.4 | RSSI Dependent | -44.6 | -9.8 | 746-757 MHz DL |
| -33.0 | -74.5 | Tx Power Off | -70.0 | -4.5 | 698-716 MHz UL |
| -32.0 | -74.5 | Tx Power Off | -70.0 | -4.5 | 698-716 MHz UL |
| -31.0 | -74.5 | Tx Power Off | -70.0 | -4.5 | 698-716 MHz UL |
| -30.0 | -74.5 | Tx Power Off | -70.0 | -4.5 | 698-716 MHz UL |
| -34 | -74.5 | RSSI Dependent | -69 | -5.5 | 698-716 MHz UL |
| -36 | -74.5 | RSSI Dependent | -67 | -7.5 | 698-716 MHz UL |
| -68 | -46 | Frequency Dependent | -45.5 | -0.5 | 728-746 MHz DL |
| -69 | -46.3 | Frequency Dependent | -45.5 | -0.8 | 728-746 MHz DL |
| -67 | -46.3 | Frequency Dependent | -45.5 | -0.8 | 728-746 MHz DL |
| -66 | -46.3 | Frequency Dependent | -45.5 | -0.8 | 728-746 MHz DL |
| -51 | -58.1 | RSSI Dependent | -52 | -6.1 | 728-746 MHz DL |
| -49 | -60.2 | RSSI Dependent | -54 | -6.2 | 728-746 MHz DL |
| -90 | -47.1 | Frequency Dependent | -44.1 | -3 | 824-849 MHz UL |
| -70 | -47.2 | Frequency Dependent | -44.1 | -3.1 | 824-849 MHz UL |
| -69 | -47.2 | Frequency Dependent | -44.1 | -3.1 | 824-849 MHz UL |
| -80 | -47.5 | Frequency Dependent | -44.1 | -3.4 | 824-849 MHz UL |
| -34 | -74.5 | RSSI Dependent | -69 | -5.5 | 824-849 MHz UL |

| RSSI Level (dBm) | Measured Noise Power Level (dBm/MHz) | Limit Region | Limit Line (dBm/MHz) | Margin (dB) | Frequency Band (MHz) |
|---|---|---|---|---|---|
| -36 | -74.5 | RSSI Dependent | -67 | -7.5 | 824-849 MHz UL |
| -70 | -47.2 | Frequency Dependent | -44.1 | -3.6 | 869-894 MHz DL |
| -80 | -47.5 | Frequency Dependent | -44.1 | -3.7 | 869-894 MHz DL |
| -64 | -50.3 | Frequency Dependent | -44.1 | -3.7 | 869-894 MHz DL |
| -68 | -47.3 | Frequency Dependent | -44.1 | -3.8 | 869-894 MHz DL |
| -47 | -60.7 | RSSI Dependent | -56 | -4.7 | 869-894 MHz DL |
| -47 | -60 | RSSI Dependent | -55 | -5 | 869-894 MHz DL |
| -33.0 | -74.5 | Tx Power Off | -70 | -4.5 | 1710-1755 MHz UL |
| -32.0 | -74.5 | Tx Power Off | -70 | -4.5 | 1710-1755 MHz UL |
| -31.0 | -74.5 | Tx Power Off | -70 | -4.5 | 1710-1755 MHz UL |
| -30.0 | -74.5 | Tx Power Off | -70 | -4.5 | 1710-1755 MHz UL |
| -34 | -74.5 | RSSI Dependent | -69 | -5.5 | 1710-1755 MHz UL |
| -36 | -74.5 | RSSI Dependent | -67 | -7.5 | 1710-1755 MHz UL |
| -54 | -50.1 | RSSI Dependent | -49 | -1.1 | 2110-2155 MHz DL |
| -48 | -56.7 | RSSI Dependent | -55 | -1.7 | 2110-2155 MHz DL |
| -50 | -54.9 | RSSI Dependent | -53 | -1.9 | 2110-2155 MHz DL |
| -52 | -53 | RSSI Dependent | -51 | -2 | 2110-2155 MHz DL |
| -60 | -45.1 | RSSI Dependent | -43 | -2.1 | 2110-2155 MHz DL |
| -59 | -46.2 | RSSI Dependent | -44 | -2.2 | 2110-2155 MHz DL |
| -33.0 | -74.2 | Tx Power Off | -70.0 | -4.2 | 1850-1915 MHz UL |
| -32.0 | -74.2 | Tx Power Off | -70.0 | -4.2 | 1850-1915 MHz UL |
| -31.0 | -74.2 | Tx Power Off | -70.0 | -4.2 | 1850-1915 MHz UL |
| -30.0 | -74.2 | Tx Power Off | -70.0 | -4.2 | 1850-1915 MHz UL |
| -34 | -74.2 | RSSI Dependent | -69 | -5.2 | 1850-1915 MHz UL |
| -36 | -74.2 | RSSI Dependent | -67 | -7.2 | 1850-1915 MHz UL |
| -51 | -54.9 | RSSI Dependent | -52 | -2.9 | 1930-1995 MHz DL |
| -52 | -54.1 | RSSI Dependent | -51 | -3.1 | 1930-1995 MHz DL |
| -53 | -53.3 | RSSI Dependent | -50 | -3.3 | 1930-1995 MHz DL |
| -54 | -52.4 | RSSI Dependent | -49 | -3.4 | 1930-1995 MHz DL |
| -65 | -41.7 | RSSI Dependent | -38 | -3.7 | 1930-1995 MHz DL |
| -64 | -43.2 | RSSI Dependent | -39 | -4.2 | 1930-1995 MHz DL |

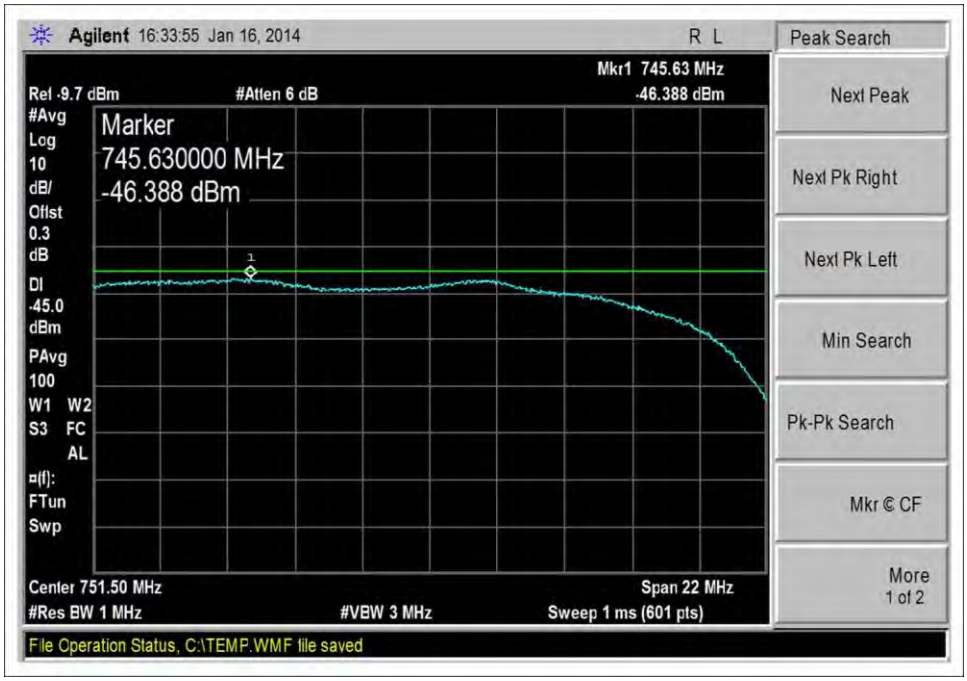

7.7 Noise Limits
Booster Noise
dBm/MHz
-40.0
-45.0
-50.0
-55.0
-60.0
-65.0
-70.0
-75.0
-80.0
-90.0
-70.0
-50.0
-30.0
-10.0
RSSI
dBm
746-757MHz DL Limit
698-716MHz UL Limit
728-746 DL Limit
824-849MHz UL Limit
869-894MHZ DL Limit


7.7 Noise Limits
Booster Noise
dBm/MHz
-35.0
-40.0
-45.0
-50.0
-55.0
-60.0
-65.0
-70.0
-75.0
-80.0
-90.0
-70.0
-50.0
-30.0
-10.0
RSSI
dBm
1710-1755MHz UL Limit
2110-2155MHz DL Limit
1850-1915MHz UL Limit
1930-1995MHz DL Limit

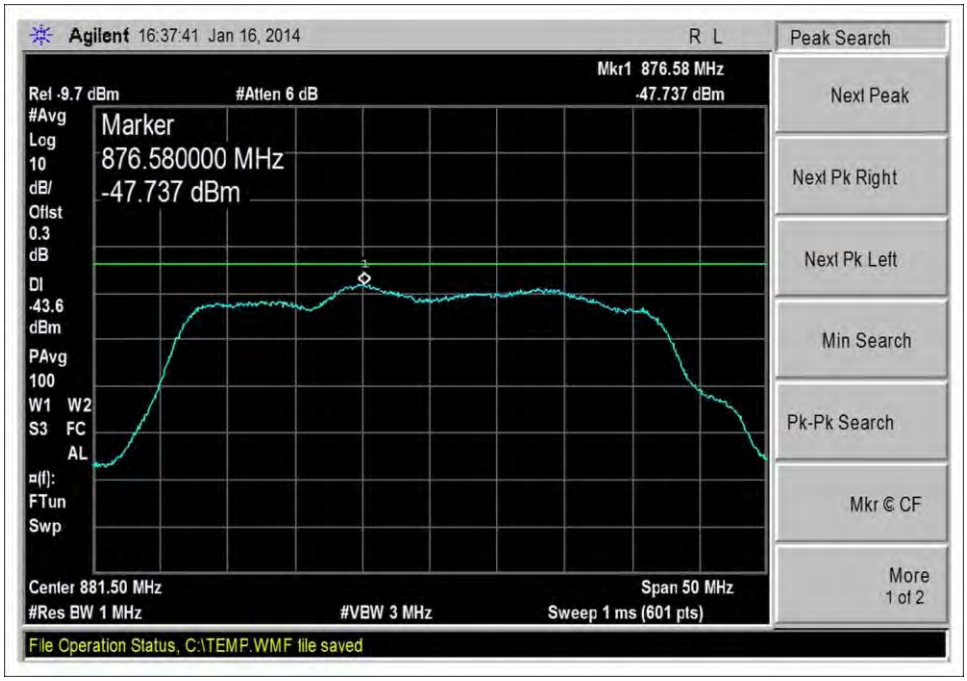
## Test Data



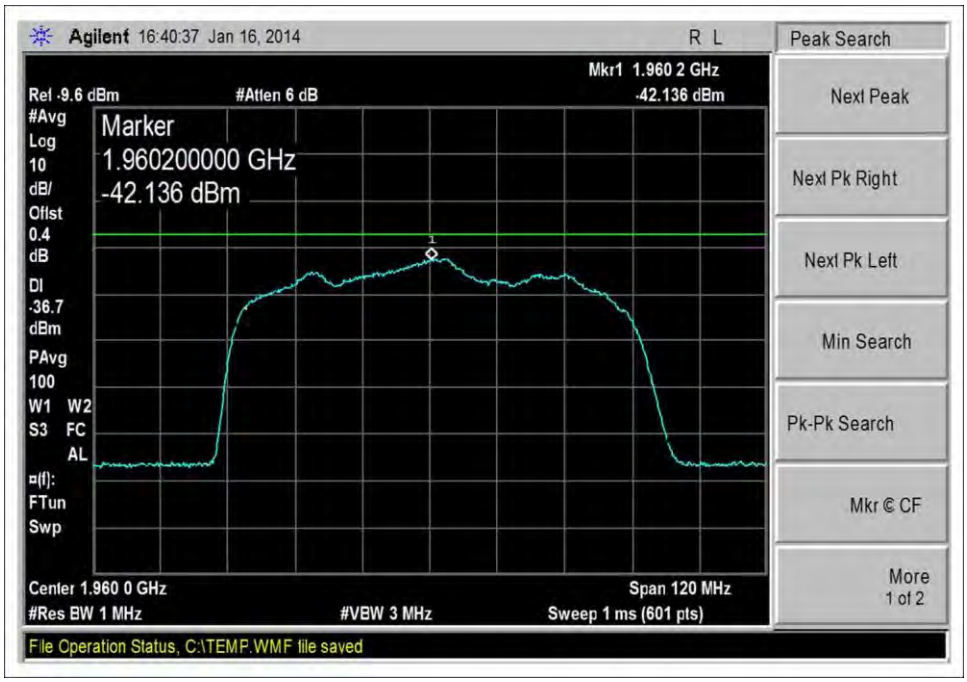

Max Noise Level_DL_728-746MHz



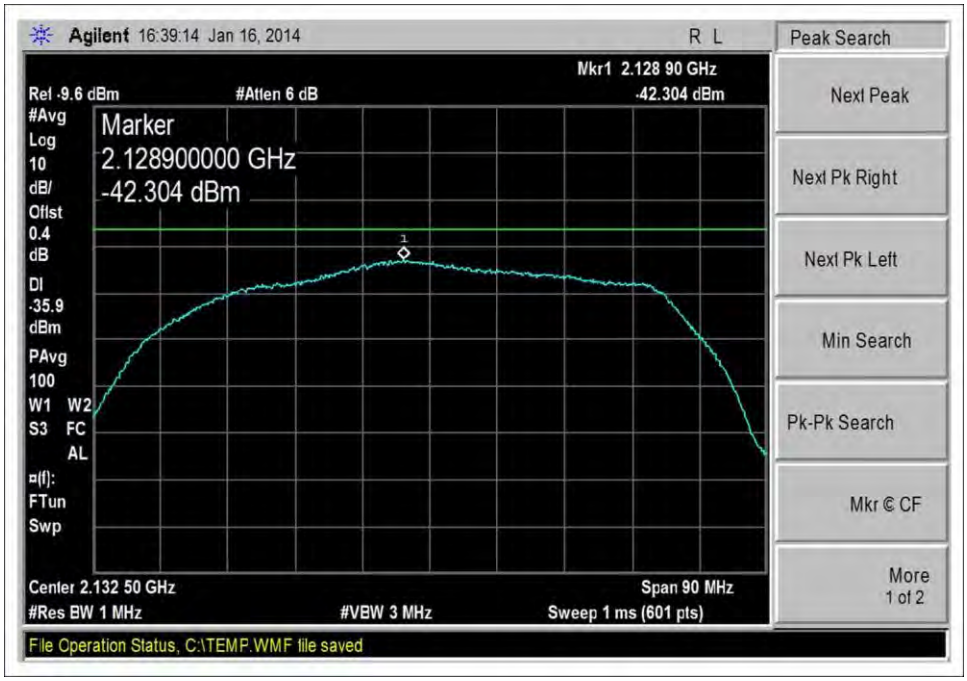

Max Noise Level_DL_746-757MHz



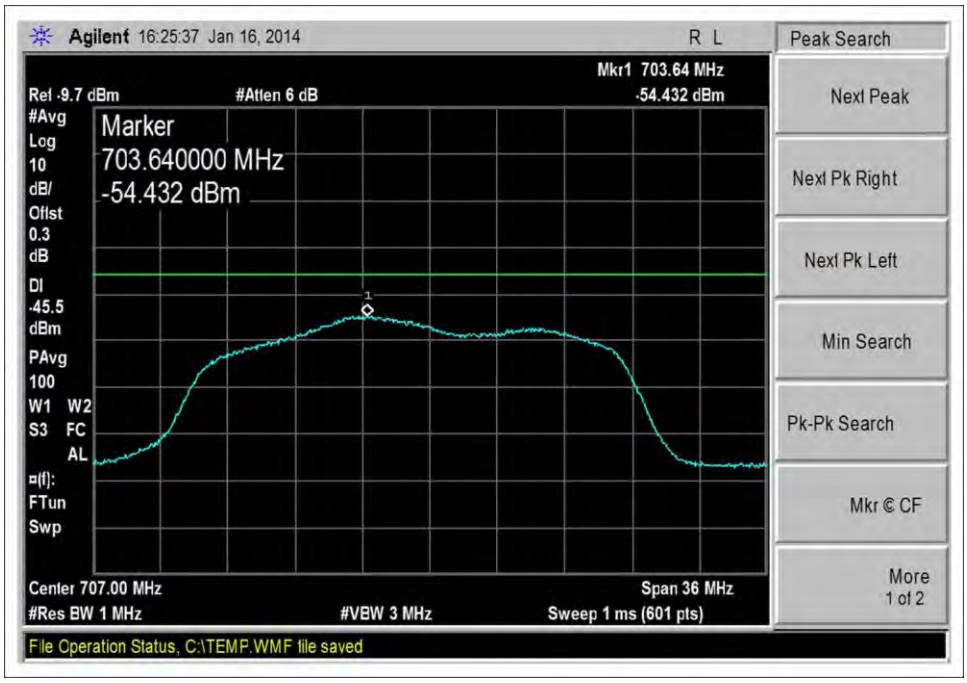

Max Noise Level_DL_869-894MHz



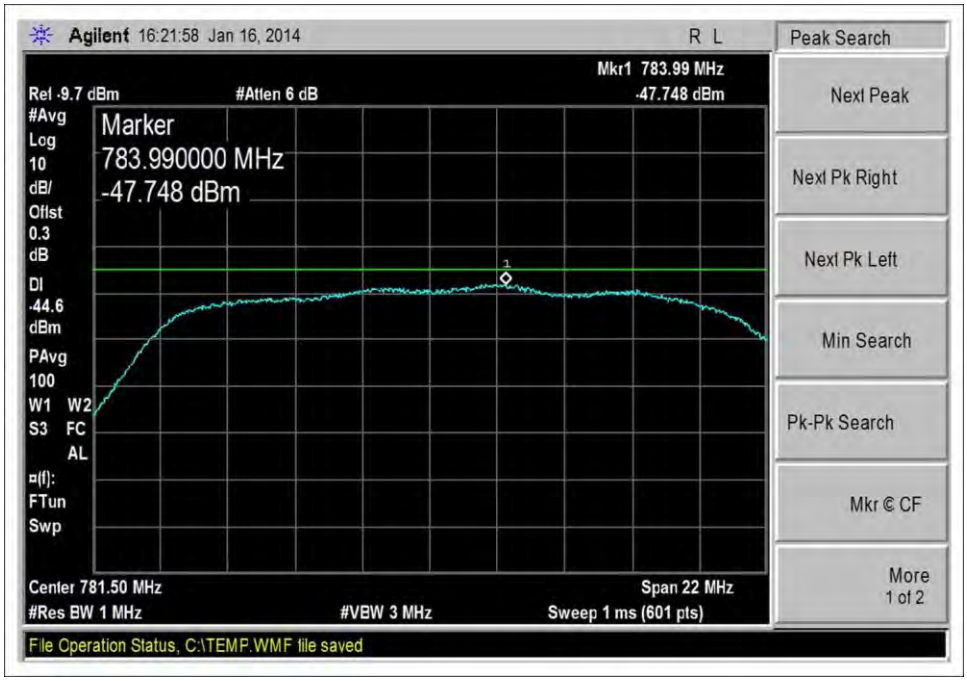

Max Noise Level_DL_1930-1990MHz



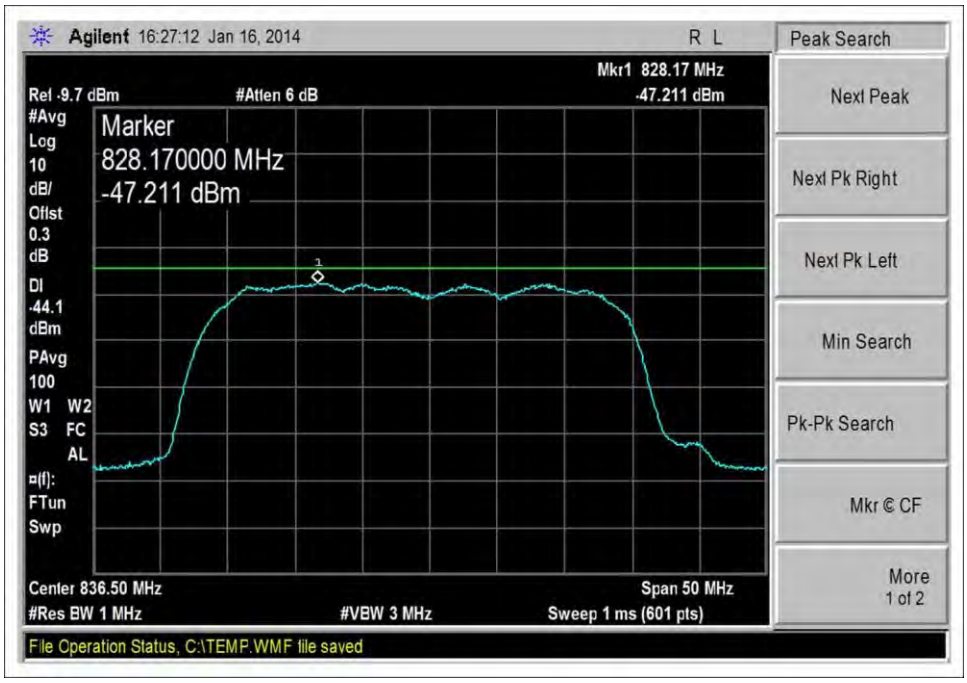

Max Noise Level_DL_2110-2155MHz



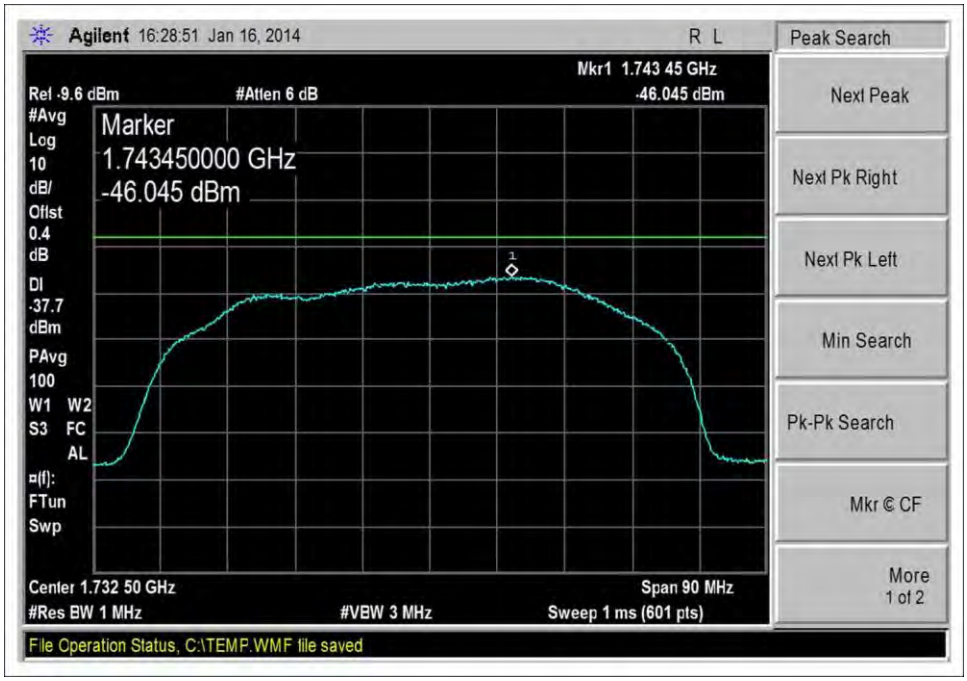

Max Noise Level_UL_698-716MHz



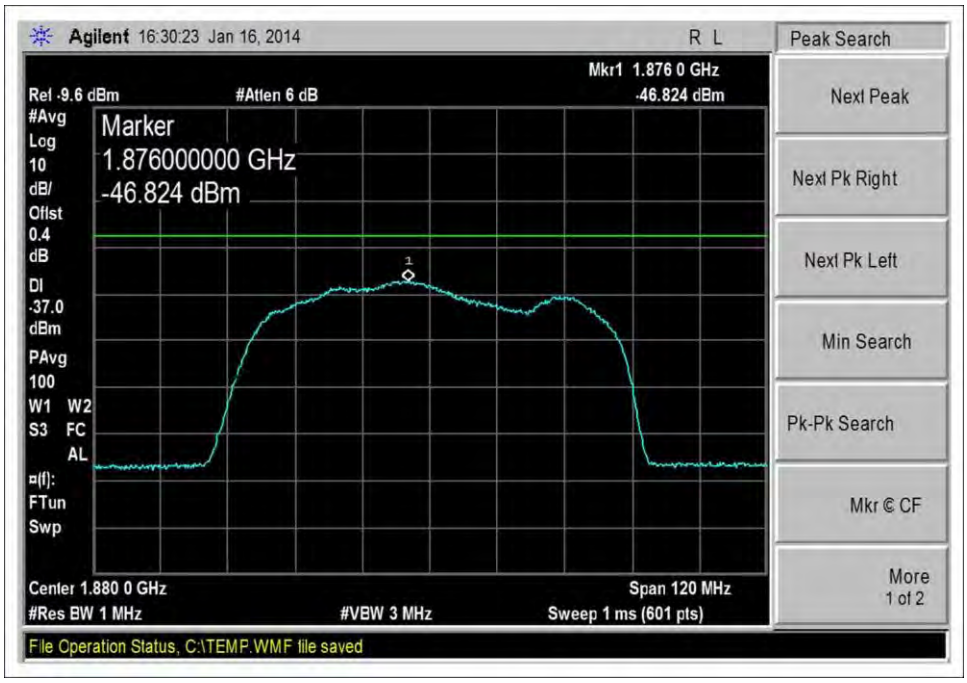

Max Noise Level_UL_776-787MHz



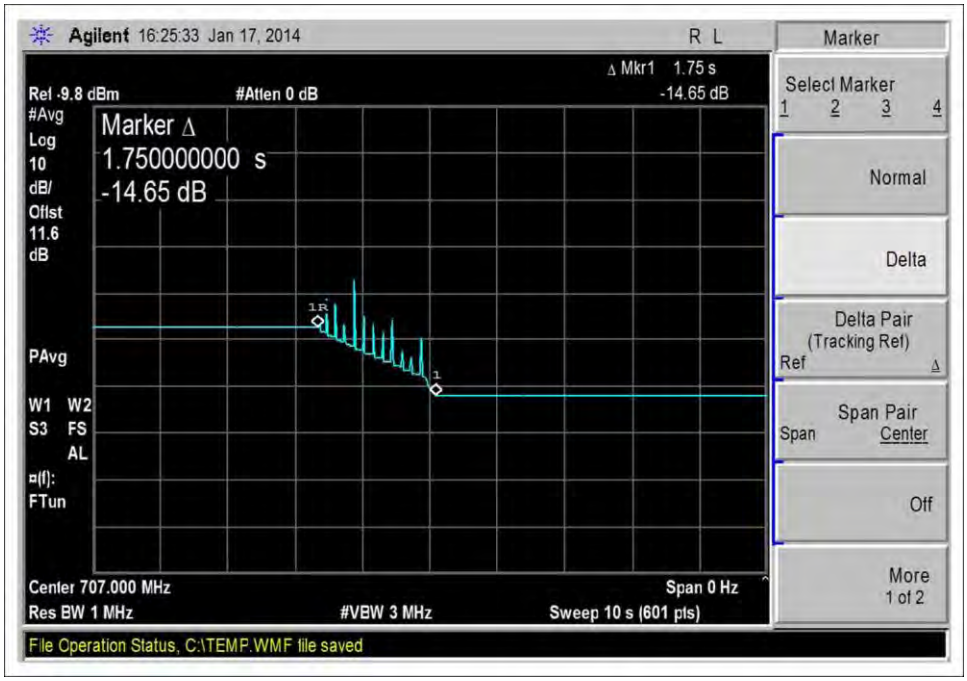

Max Noise Level_UL_824-849MHz



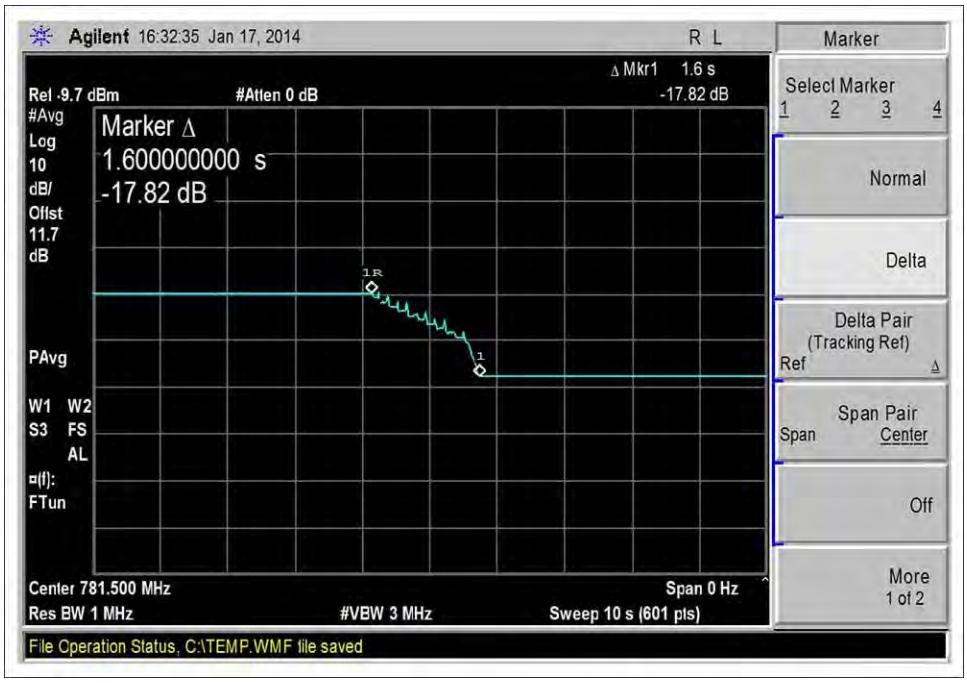

Max Noise Level_UL_1710-1755MHz



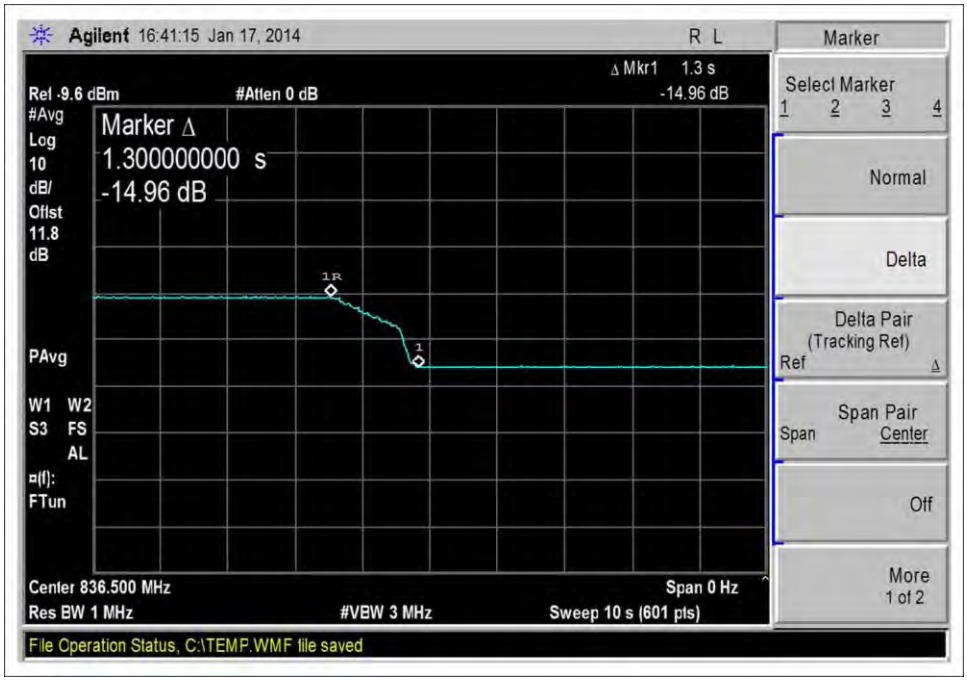

Max Noise Level_UL_1850-1910MHz



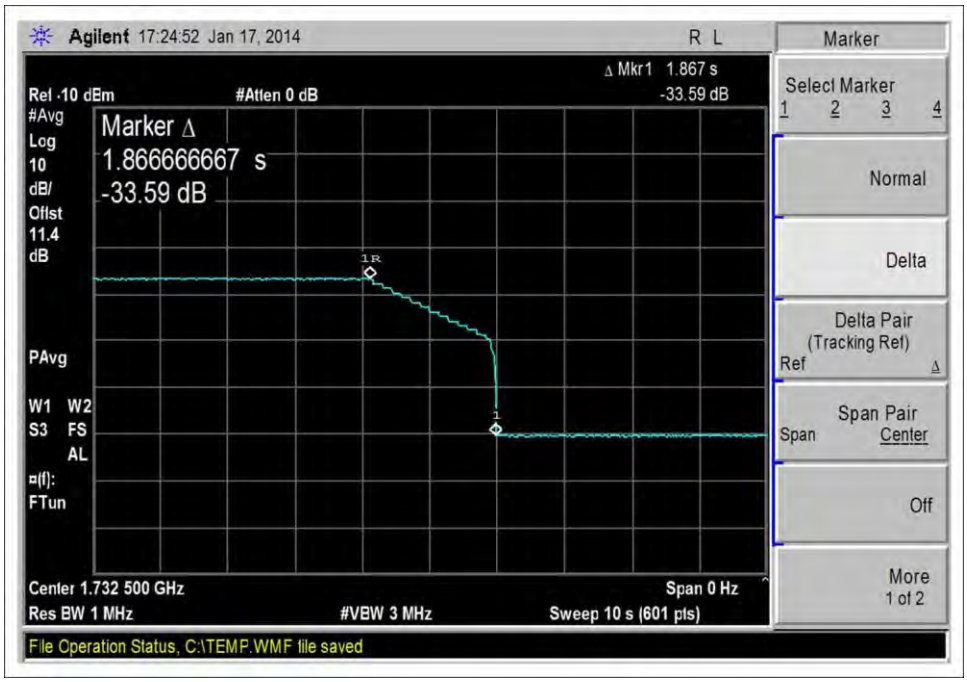

Variable Noise Timing_UL_698-716MHz



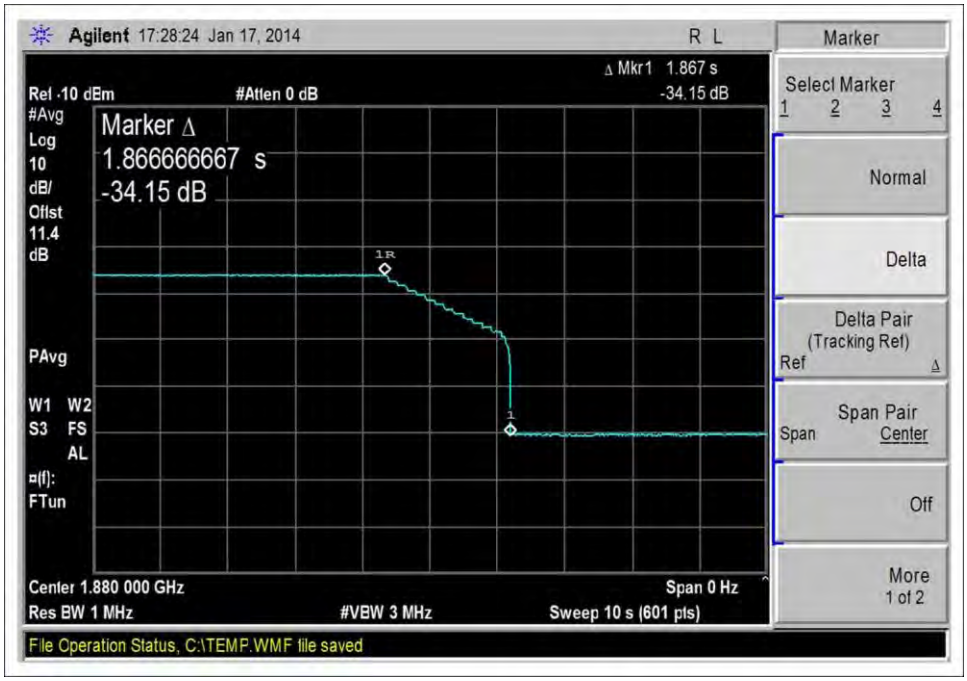

Variable Noise Timing_UL_776-787MHz




Variable Noise Timing_UL_824-849MHz

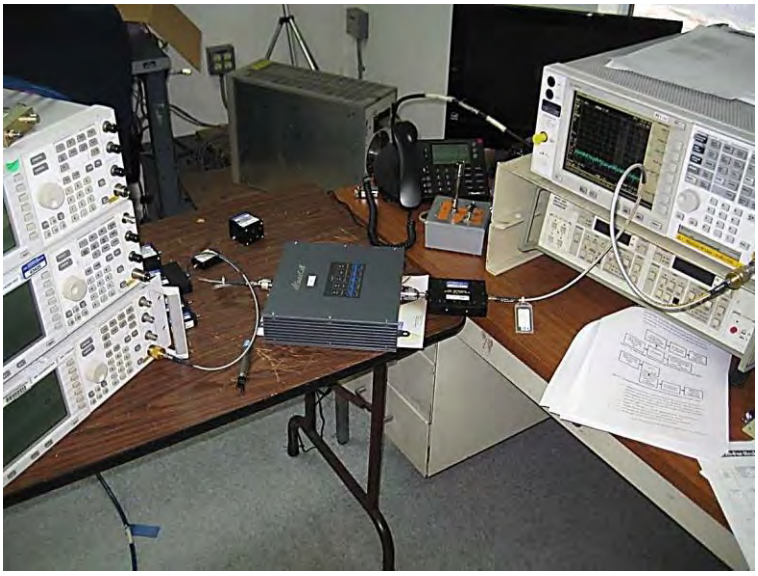



Variable Noise Timing_UL_1710-1755MHz

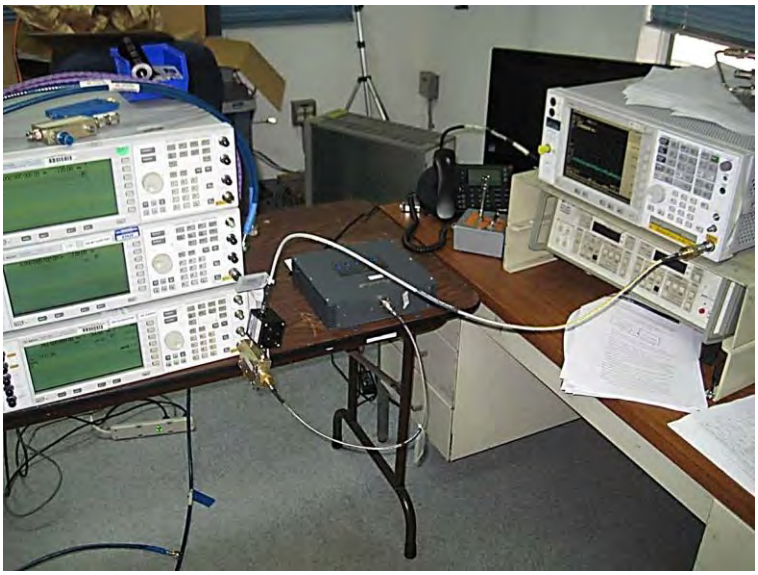



Variable Noise Timing_UL_1850-1910MHz

## Test Setup Photo(s)



downlink setup



uplink setup

# Clause 7.8 Uplink Inactivity

## Test Conditions / Setup

Test Location: CKC Laboratories • 110 Olinda Place • Brea, CA 92823 • 714-993-6112

Customer: **Cellphone-Mate, Inc.**
Specification: **7.8 Uplink Inactivity**
Work Order #: **95308** Date: 01/17/2014
Test Type: **Conducted Emissions**
Equipment: Fixed Wideband Consumer Signal Booster
Manufacturer: Cellphone-Mate, Inc. Tested By: S. Yamamoto
Model: Fusion-5 110V 60Hz
S/N: (none)

***Test Equipment*:**

| Asset # | Description | Model | Calibration Date | Cal Due Date |
|---|---|---|---|---|
| 02672 | Spectrum Analyzer | E4446A | 8/14/2013 | 8/14/2015 |
| 02946 | Cable | 32022-2-2909K-36TC | 7/31/2013 | 7/31/2015 |

***Equipment Under Test* (* = EUT):**

| Function | Manufacturer | Model # | S/N |
|---|---|---|---|
| Fixed Wideband Consumer Signal Booster * | Cellphone-Mate, Inc. | Fusion-5 | (none) |

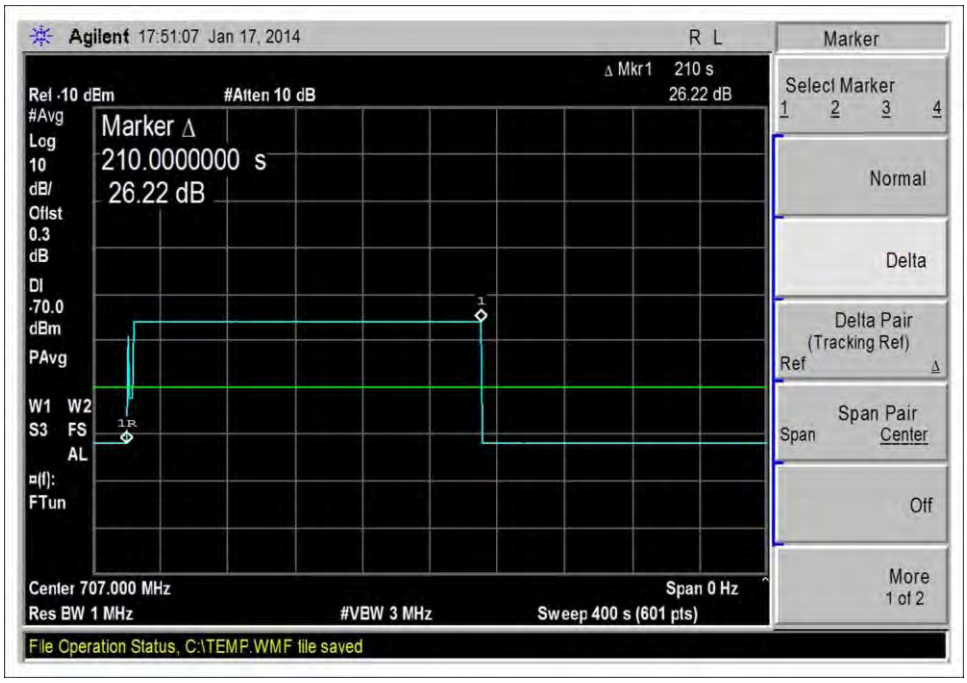
***Support Devices:***

| Function | Manufacturer | Model # | S/N |
|---|---|---|---|
| AC to 9Vdc Power Adapter | SureCall | GFP451DA-0945-1 | (none) |

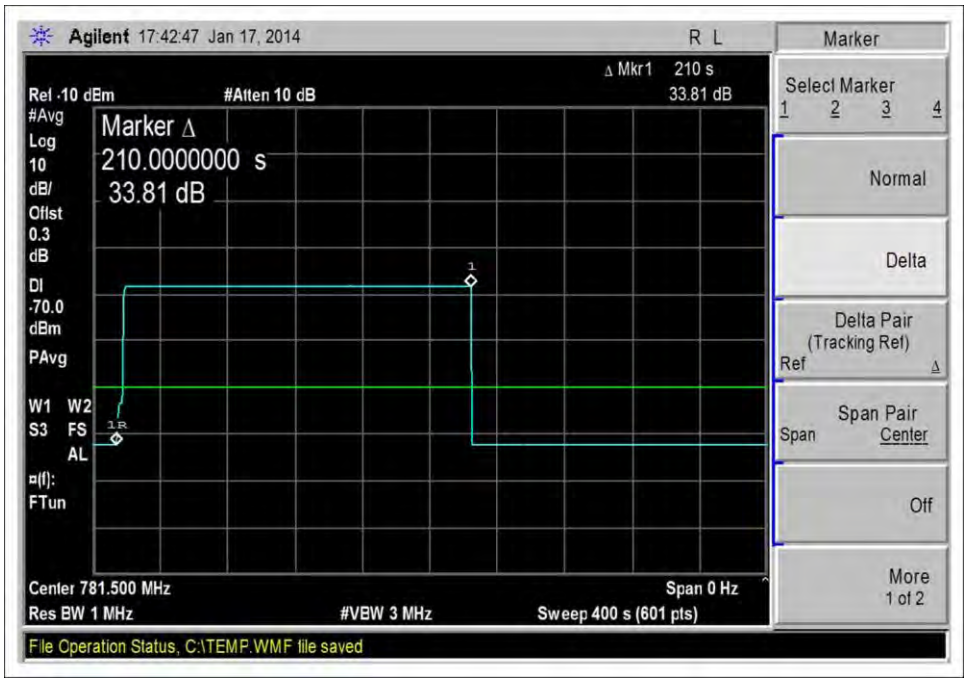
***Test Conditions / Notes:***

The EUT is placed on the test bench. Gain is set to the maximum gain.
Evaluation performed at the Outside (Donor) antenna port.
Test performed at the frequency of highest power within each of the following bands: UL 776-787MHz, UL 698-716MHz, UL 824-849MHz, UL 1710-1755MHz, UL 1850-1910MHz
Test procedure: The test was performed IAW section 7.8 of the FCC Publication: 935210 D03 Wideband Consumer Signal Booster Measurement Guidance DR04-41516 August 7, 2013.
Test environment conditions: 21°C, 31% , 100kPa

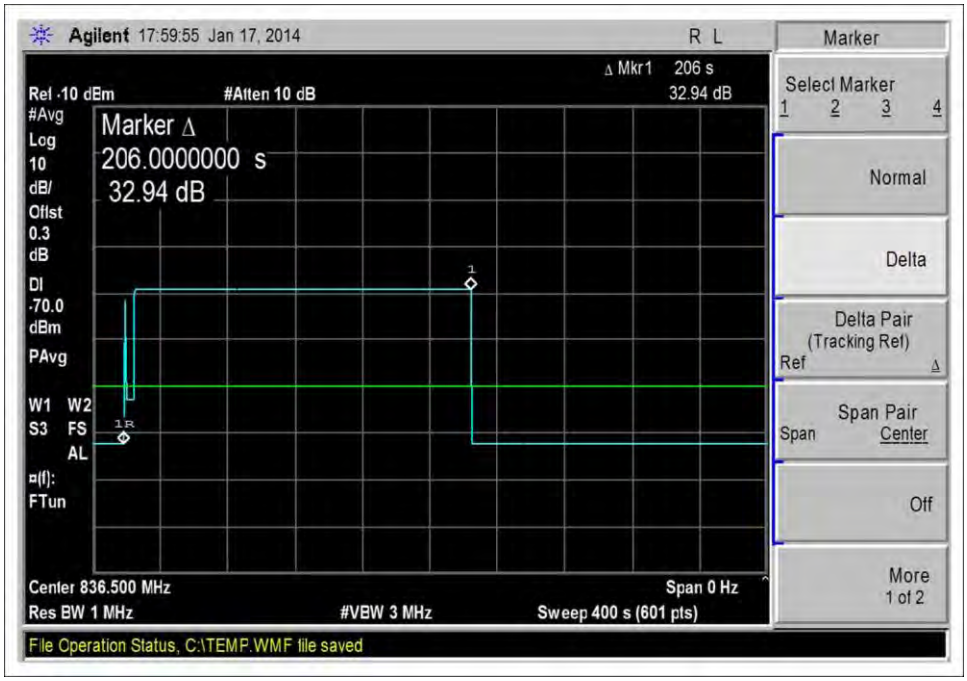
## Test Data



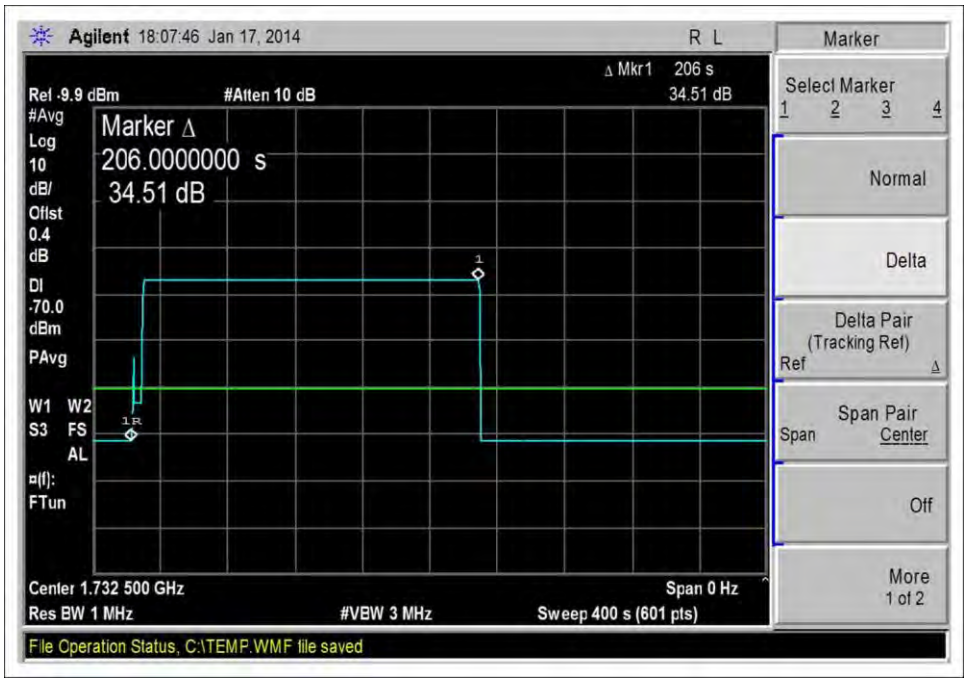

UL_698-707MHz



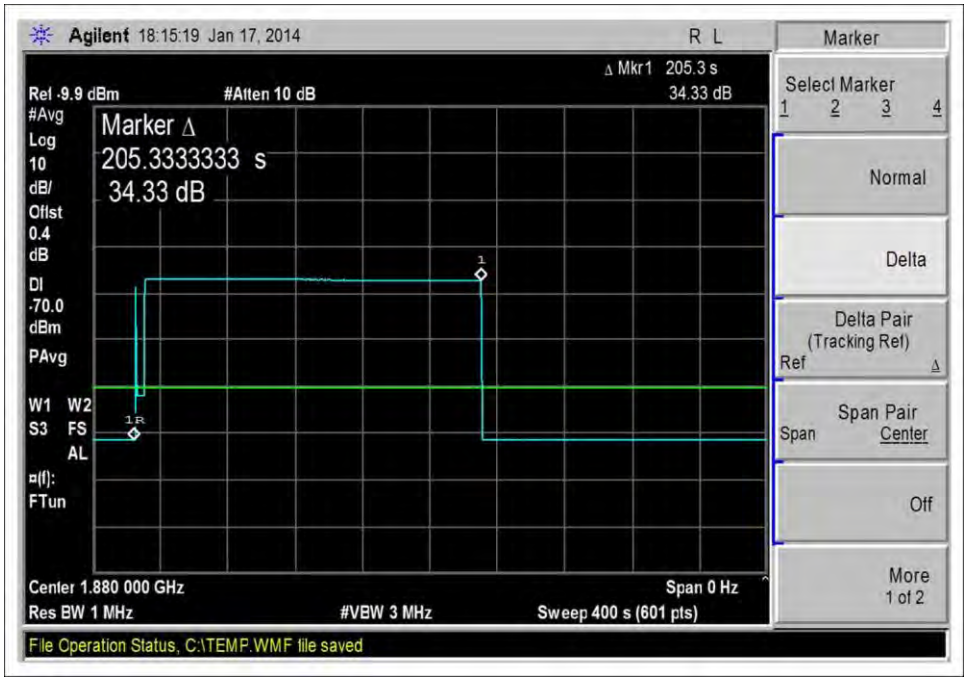

UL_776-787MHz




UL_824-849MHz

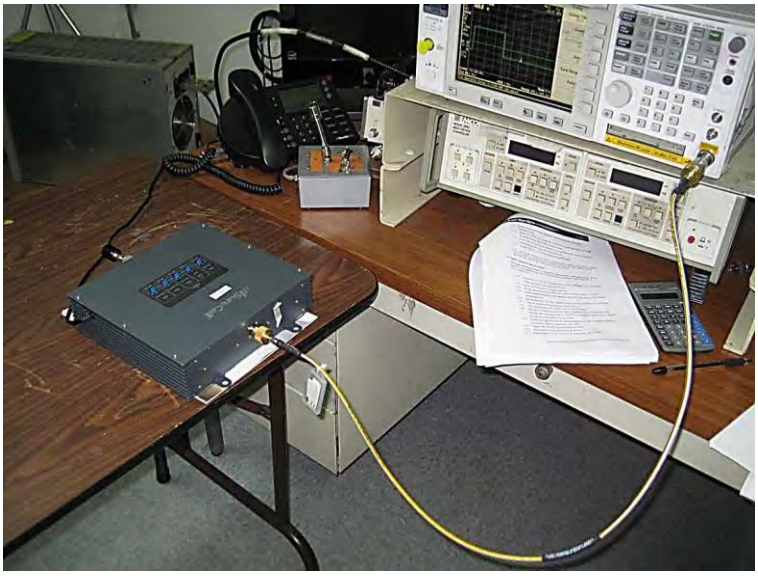



UL_1710-1755MHz




Uplink Inactivity_UL_1850-1910MHz

## Test Setup Photo(s)



# Clause 7.9 Booster Gain Limit

## Test Conditions / Setup

Test Location: CKC Laboratories Inc. 110 N Olinda Place, Brea CA 92823 714-993-6112

Customer: **Cellphone-Mate, Inc**
Specification: **7.9 Variable Booster Gain**
Work Order #: **95308** Date: 01/19/2014
Test Type: **Conducted Emissions**
Equipment: Fixed Wideband Consumer Signal Booster
Manufacturer: Cellphone-Mate, Inc. Tested By: S. Yamamoto
Model: Fusion-5 110V 60Hz
S/N: (none)

***Test Equipment*:**

| Asset # | Description | Model | Calibration Date | Cal Due Date |
|---|---|---|---|---|
| 02672 | Spectrum Analyzer | E4446A | 8/14/2013 | 8/14/2015 |
| 03431 | Attenuator | 89-20-21 | 9/5/2013 | 9/5/2015 |
| C00082 | Coupler | MECA Electronics, Inc | 8/21/2013 | 8/21/2015 |
| 02946 | Cable | 32022-2-2909K-36TC | 7/31/2013 | 7/31/2015 |

***Equipment Under Test* (* = EUT):**

| Function | Manufacturer | Model # | S/N |
|---|---|---|---|
| Fixed Wideband Consumer Signal Booster * | Cellphone-Mate, Inc. | Fusion-5 | (none) |

***Support Devices:***

| Function | Manufacturer | Model # | S/N |
|---|---|---|---|
| Signal Generator | Agilent | E4438C | MY42082260 |
| Signal Generator | Agilent | E4438C | MY42081492 |
| AC to 9Vdc Power Adapter | SureCall | GFP451DA-0945-1 | (none) |

***Test Conditions / Notes:***

The EUT is placed on the test bench. Gain is set to the maximum gain. Evaluation performed at the Outside (Donor) antenna port.
Test performed at for each of the following bands: UL 776-787MHz, UL 698-716MHz, UL 824-849MHz, UL 1710-1755MHz, UL 1850-1910MHz

698-716MHz, MSCL= 30.4 dB
776-787MHz, MSCL= 31.3dB
824-849MHz, MSCL=31.9dB
1710-1755MHz MSCL=35.8dB
1850-1915MHz, MSCL=36.6dB

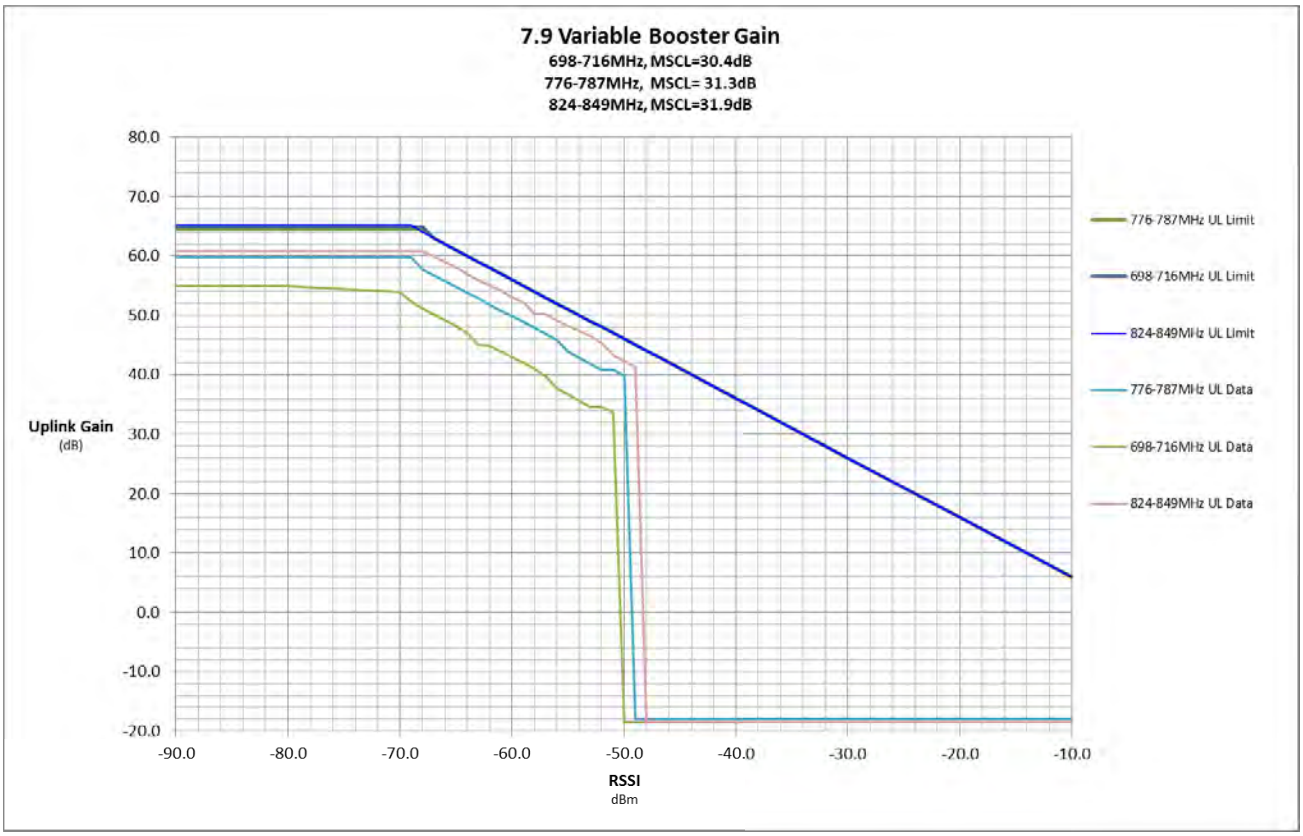
MSCL obtained from manufacturer provided MSCL calculation : MSCL Calculations Fusion 5 1-27-14 V2 0 .pdf

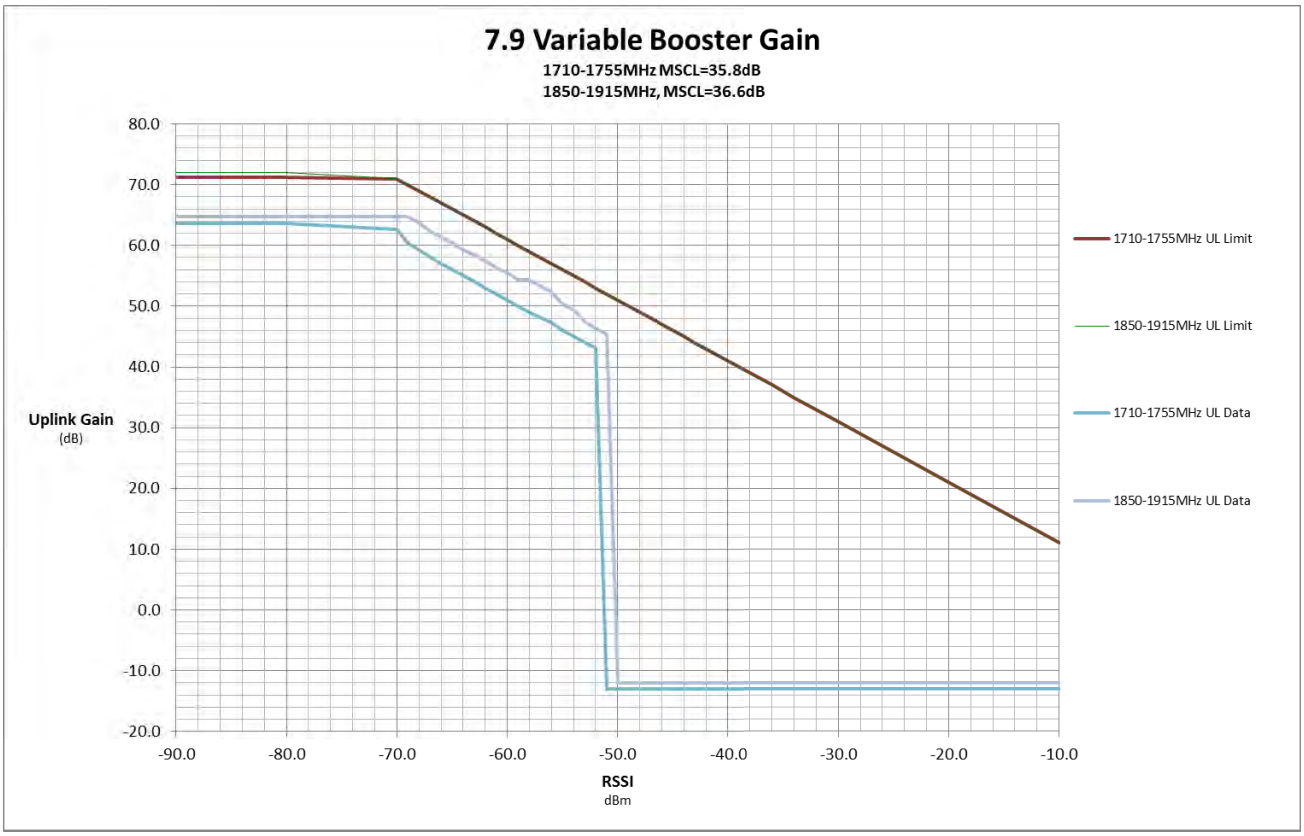
Variable Booster Gain test procedure: The test was performed in accordance with section 7.9 of the FCC Publication: 935210 D03 Wideband Consumer Signal Booster Measurement Guidance DR04-41516: August 7, 2013.
Site D. Test environment conditions: 21C, 37%, 100kPa

**Booster Gain Summary Table / Six Values Closest To Limit**

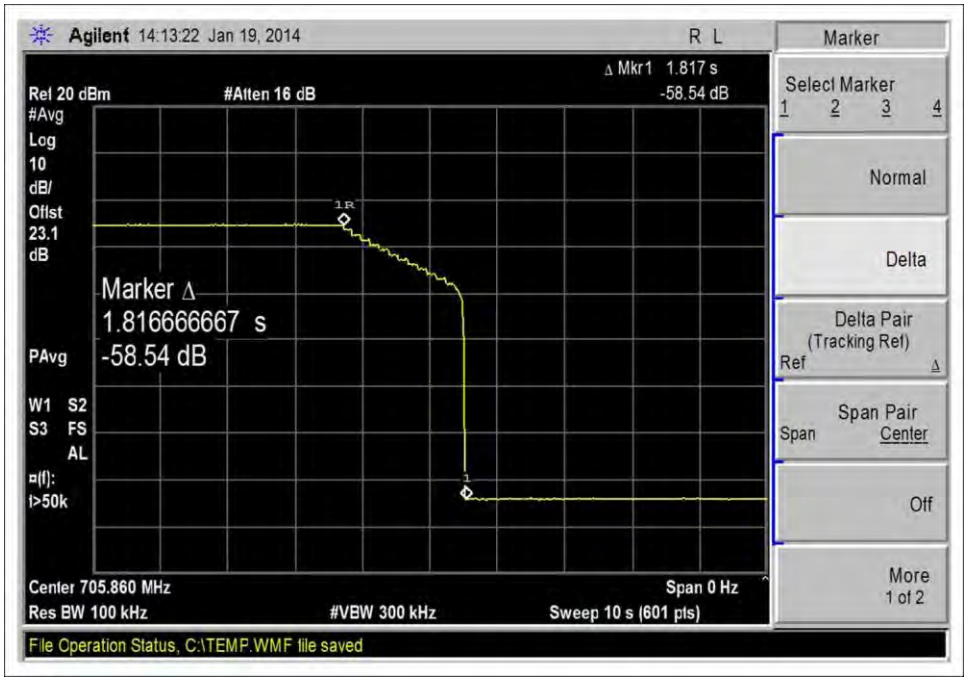
| RSSI Level (dBm) | Measured Uplink Gain Level (dB) | Limit Region | Limit Line (dB) | Margin (dB) | Frequency Band (MHz) |
|---|---|---|---|---|---|
| -90.0 | 54.9 | Frequency Dependent | 64.9 | -10.0 | 698-716 MHz UL |
| -80.0 | 54.9 | Frequency Dependent | 64.9 | -10.0 | 698-716 MHz UL |
| -70.0 | 53.9 | Frequency Dependent | 64.9 | -11.0 | 698-716 MHz UL |
| -69.0 | 52.3 | Frequency Dependent | 64.9 | -12.6 | 698-716 MHz UL |
| -67.0 | 50.2 | RSSI Dependent | 63 | -12.8 | 698-716 MHz UL |
| -66.0 | 49.1 | RSSI Dependent | 62 | -12.9 | 698-716 MHz UL |
| -90.0 | 59.8 | Frequency Dependent | 64.4 | -4.6 | 776-787 MHz UL |
| -80.0 | 59.8 | Frequency Dependent | 64.4 | -4.6 | 776-787 MHz UL |
| -70.0 | 59.8 | Frequency Dependent | 64.4 | -4.6 | 776-787 MHz UL |
| -69.0 | 59.8 | Frequency Dependent | 64.4 | -4.6 | 776-787 MHz UL |
| -63.0 | 52.9 | RSSI Dependent | 59 | -6.1 | 776-787 MHz UL |
| -62.0 | 51.8 | RSSI Dependent | 58 | -6.2 | 776-787 MHz UL |
| -53.0 | 46.5 | RSSI Dependent | 49 | -2.5 | 824-849 MHz UL |
| -54 | 47.4 | RSSI Dependent | 50 | -2.6 | 824-849 MHz UL |

| RSSI Level (dBm) | Measured Uplink Gain Level (dB) | Limit Region | Limit Line (dB) | Margin (dB) | Frequency Band (MHz) |
|---|---|---|---|---|---|
| -52 | 45.3 | RSSI Dependent | 48 | -2.7 | 824-849 MHz UL |
| -61 | 54.2 | RSSI Dependent | 57 | -2.8 | 824-849 MHz UL |
| -60 | 53.1 | RSSI Dependent | 56 | -2.9 | 824-849 MHz UL |
| -59 | 52.1 | RSSI Dependent | 55 | -2.9 | 824-849 MHz UL |
| -90.0 | 63.6 | Frequency Dependent | 71.2 | -7.6 | 1710-1755 MHz UL |
| -80.0 | 63.6 | Frequency Dependent | 71.2 | -7.6 | 1710-1755 MHz UL |
| -70 | 62.6 | RSSI Dependent | 71 | -8.4 | 1710-1755 MHz UL |
| -69 | 60.4 | RSSI Dependent | 70 | -9.6 | 1710-1755 MHz UL |
| -56 | 47.3 | RSSI Dependent | 57 | -9.7 | 1710-1755 MHz UL |
| -68 | 59.2 | RSSI Dependent | 69 | -9.8 | 1710-1755 MHz UL |
| -56 | 52.4 | RSSI Dependent | 57 | -4.6 | 1850-1910 MHz UL |
| -57 | 53.4 | RSSI Dependent | 58 | -4.6 | 1850-1910 MHz UL |
| -58 | 54.3 | RSSI Dependent | 59 | -4.7 | 1850-1910 MHz UL |
| -69 | 64.8 | RSSI Dependent | 70 | -5.2 | 1850-1910 MHz UL |
| -68 | 63.7 | RSSI Dependent | 69 | -5.3 | 1850-1910 MHz UL |
| -67 | 62.4 | RSSI Dependent | 68 | -5.6 | 1850-1910 MHz UL |

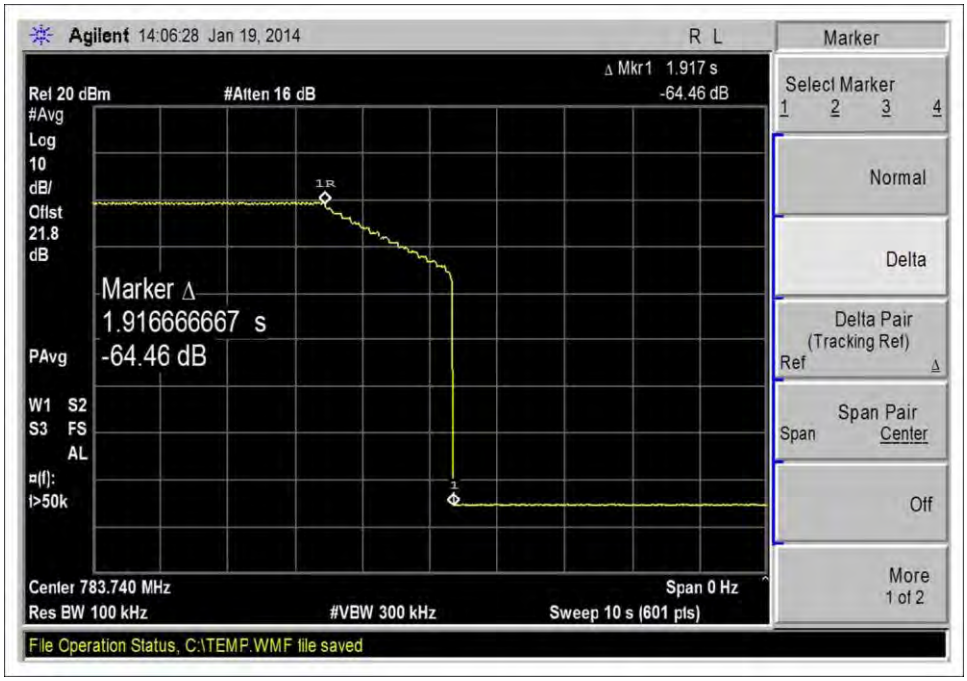

7.9 Variable Booster Gain
698-716MHz, MSCL=30.4dB
776-787MHz, MSCL= 31.3dB
824-849MHz, MSCL=31.9dB
Uplink Gain
(dB)
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-90.0
-80.0
-70.0
-60.0
-50.0
-40.0
-30.0
-20.0
-10.0
RSSI
dBm
776-787MHz UL Limit
698-716MHz UL Limit
824-849MHz UL Limit
776-787MHz UL Data
698-716MHz UL Data
824-849MHz UL Data


7.9 Variable Booster Gain
1710-1755MHz MSCL=35.8dB
1850-1915MHz, MSCL=36.6dB
Uplink Gain
(dB)
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-90.0
-80.0
-70.0
-60.0
-50.0
-40.0
-30.0
-20.0
-10.0
RSSI
dBm
1710-1755MHz UL Limit
1850-1915MHz UL Limit
1710-1755MHz UL Data
1850-1915MHz UL Data

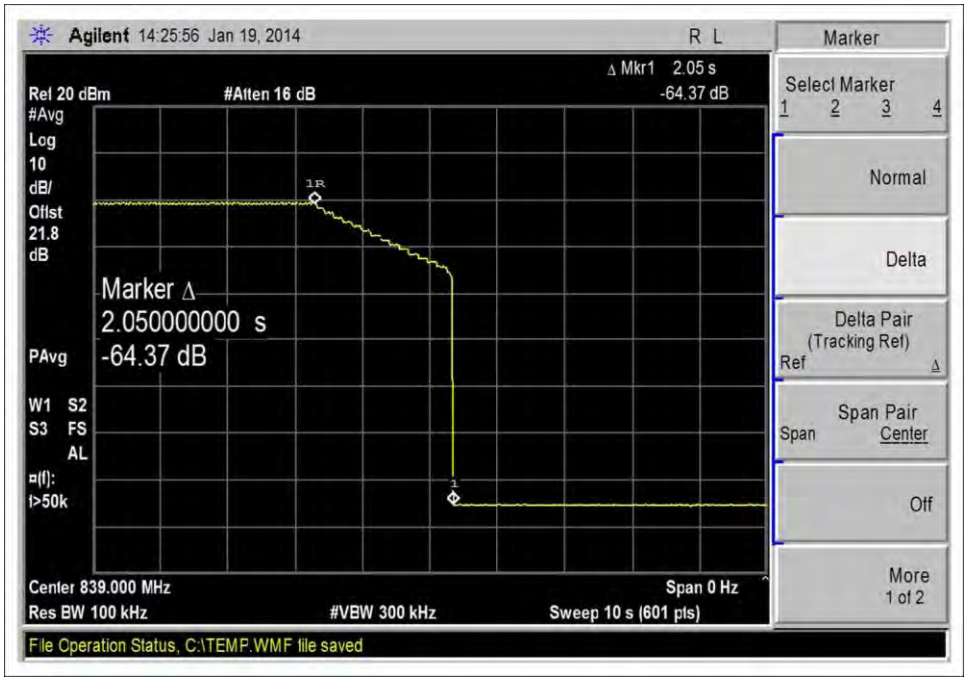
## Test Data



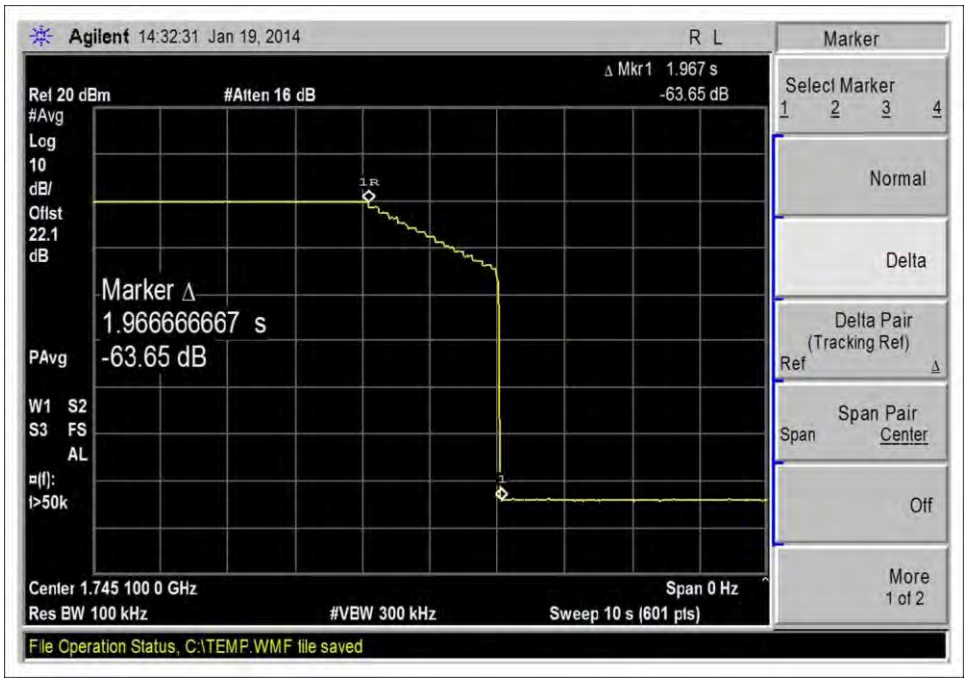

UL_698-716MHz



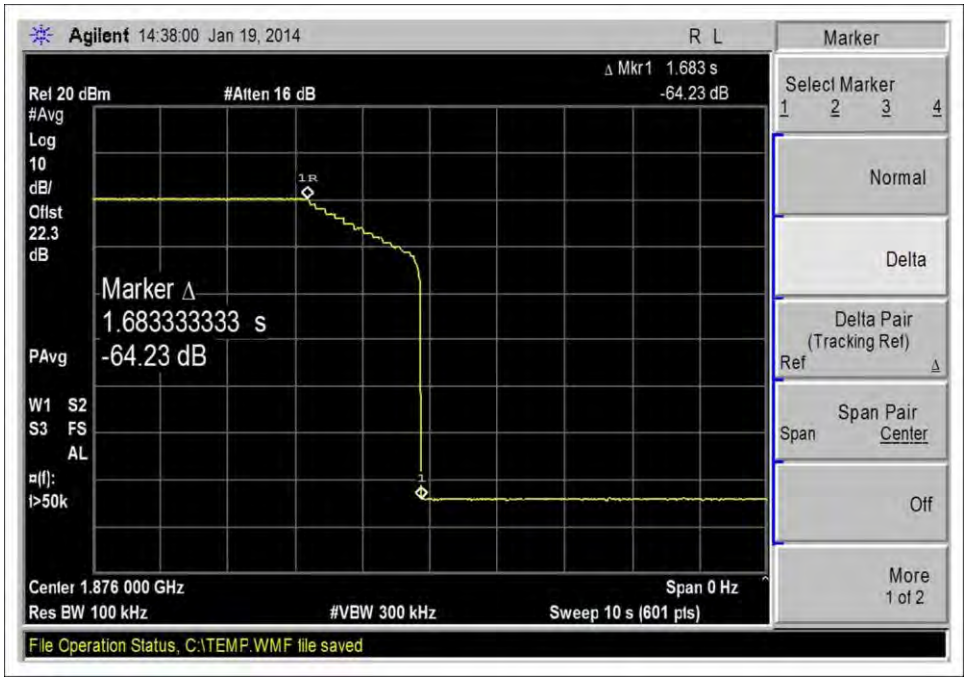

UL_776-787MHz




UL_824-849MHz

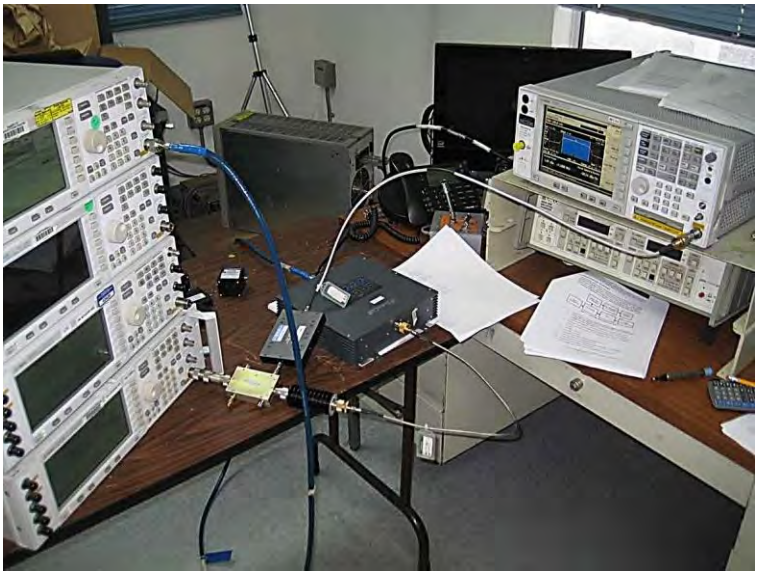



UL_1710-1755MHz




UL_1850-1910MHz

## Test Setup Photo(s)



# Clause 7.11 Anti-Oscillation

## Test Conditions / Setup

Customer: **Cellphone-Mate, Inc.**
Specification: **7.11 Oscillation Detection**
Work Order #: **95308** Date: 01/21/2014
Test Type: **Conducted Emissions**
Equipment: Fixed Wideband Consumer Signal Booster
Manufacturer: Cellphone-Mate, Inc. Tested By: S. Yamamoto
Model: Fusion-5 110V 60Hz
S/N: (none)

***Test Equipment*:**

| Asset # | Description | Model | Calibration Date | Cal Due Date |
|---|---|---|---|---|
| 02672 | Spectrum Analyzer | E4446A | 8/14/2013 | 8/14/2015 |
| 03431 | Attenuator | 89-20-21 | 9/5/2013 | 9/5/2015 |
| C00082 | Coupler | MECA Electronics, Inc. | 8/21/2013 | 8/21/2015 |
| 03429 | Attenuator | 8496B | 9/5/2013 | 9/5/2015 |
| 02475 | Attenuator | 8494B | 6/17/2013 | 6/17/2015 |
| 03412 | Filter | PE8705 | 8/26/2013 | 8/26/2015 |
| 03413 | Filter | PE8706 | 8/26/2013 | 8/26/2015 |
| 03414 | Filter | PE8707 | 8/26/2013 | 8/26/2015 |
| 03415 | Filter | PE8708 | 8/26/2013 | 8/26/2015 |
| 03447 | Filter | PE8710 | 9/20/2013 | 9/20/2015 |
| 03448 | Filter | PE8711 | 9/20/2013 | 9/20/2015 |
| 03446 | Filter | 4FV50-707/H18-O/O | 1/6/2014 | 1/6/2016 |
| 03467 | Filter | 4FV50-731/H30-O/O | 1/6/2014 | 1/6/2016 |
| 03468 | Filter | 4CS10-781.5/E12.2-O/O | 1/6/2014 | 1/6/2016 |
| 03469 | Filter | 4CS10-751.5/E12-O/O | 1/6/2014 | 1/6/2016 |
| 02946 | Cable | 32022-2-2909K-36TC | 7/31/2013 | 7/31/2015 |

***Equipment Under Test* (* = EUT):**

| Function | Manufacturer | Model # | S/N |
|---|---|---|---|
| Fixed Wideband Consumer Signal Booster * | Cellphone-Mate, Inc. | Fusion-5 | (none) |

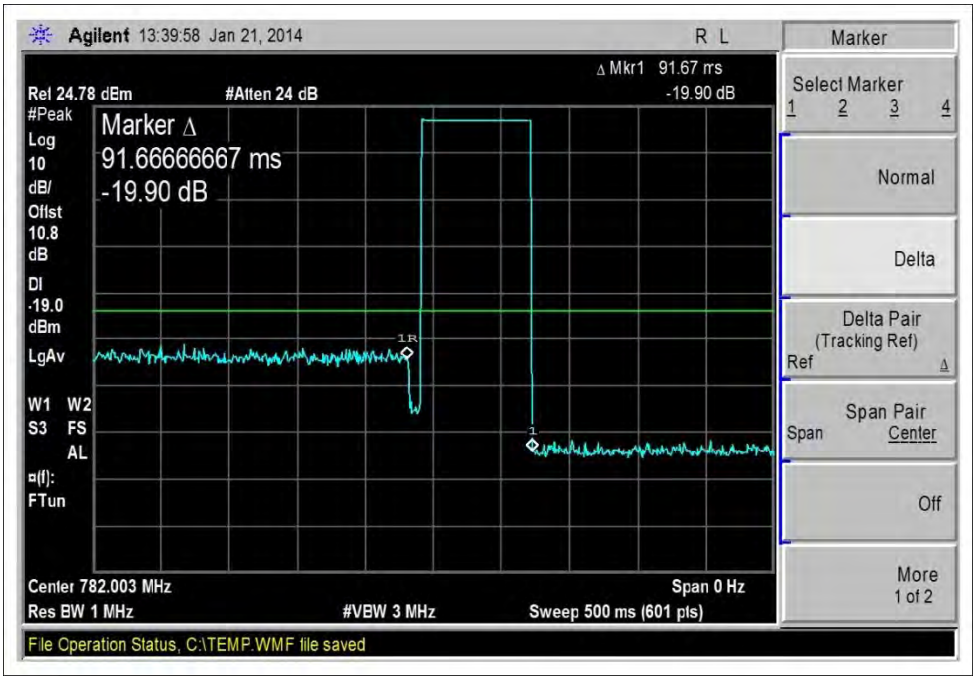
***Support Devices:***

| Function | Manufacturer | Model # | S/N |
|---|---|---|---|
| AC to 9Vdc Power Adapter | SureCall | GFP451DA-0945-1 | (none) |

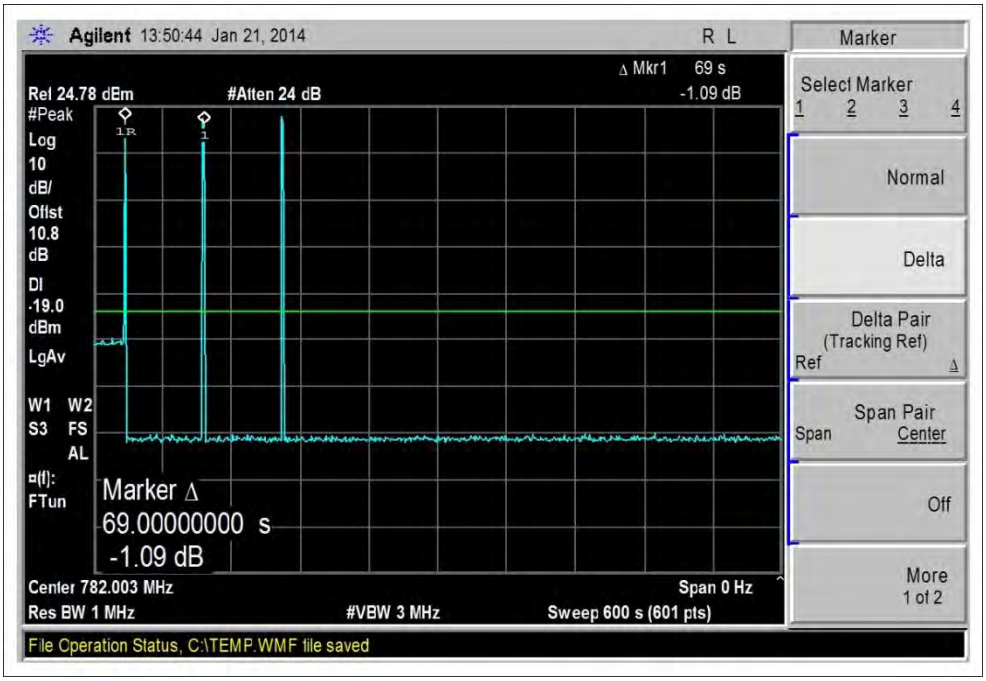
***Test Conditions / Notes:***

| |
|---|
| The EUT is placed on the test bench. Gain is set to the maximum gain.<br>Evaluation performed at the Outside (Donor) and Inside (Server) antenna port.<br>Test performed at for each of the following bands: UL 776-787MHz, UL 698-716MHz, UL 824-849MHz, UL 1710-1755MHz, UL 1850-1910MHz, DL 746-757MHz, DL 728-746MHz, DL 869-894MHz, DL 2110-2155MHz, DL 1930-1990MHz<br>Oscillation Detection test procedure: The test was performed in accordance with section 7.11 of the FCC Publication: 935210 D03 Wideband Consumer Signal Booster Measurement Guidance DR04-41516: August 7, 2013.<br>Site D. Test environment conditions: 22°C, 34%, 100kPa |

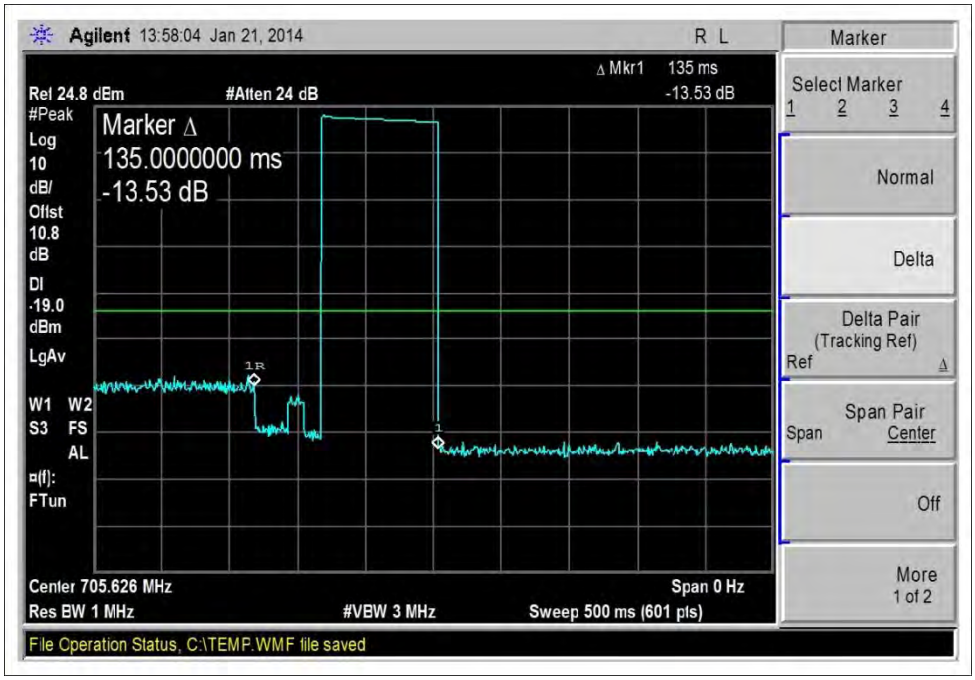
## Test Data



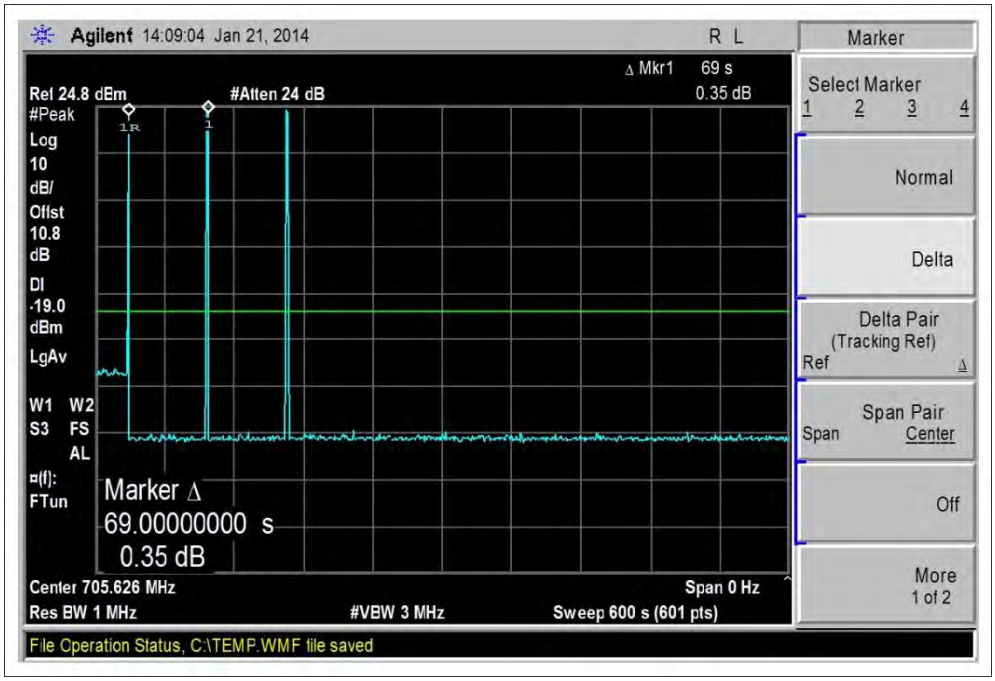

Uplink 776-787MHz Oscillation Detection Screen Capture



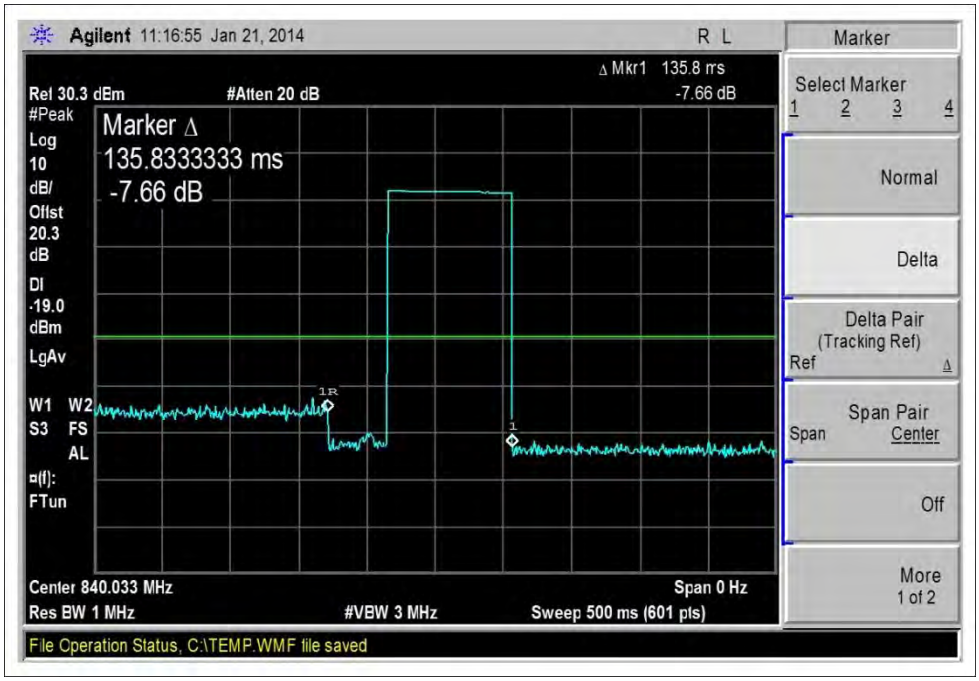

Uplink 776-787MHz Oscillation Mitigation Screen Capture



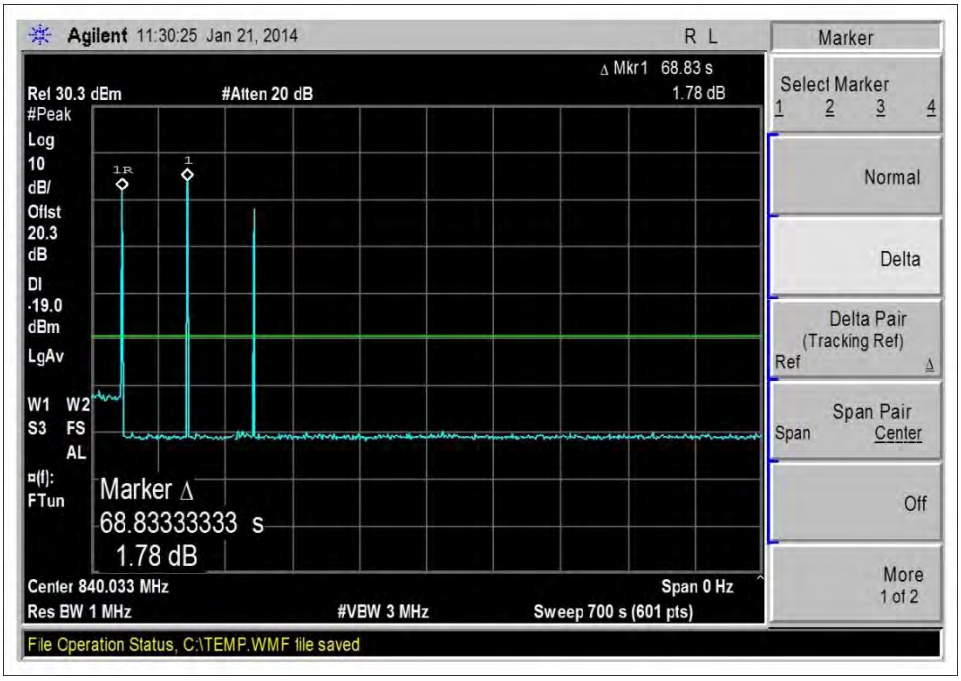

Uplink 698-716MHz Oscillation Detection Screen Capture



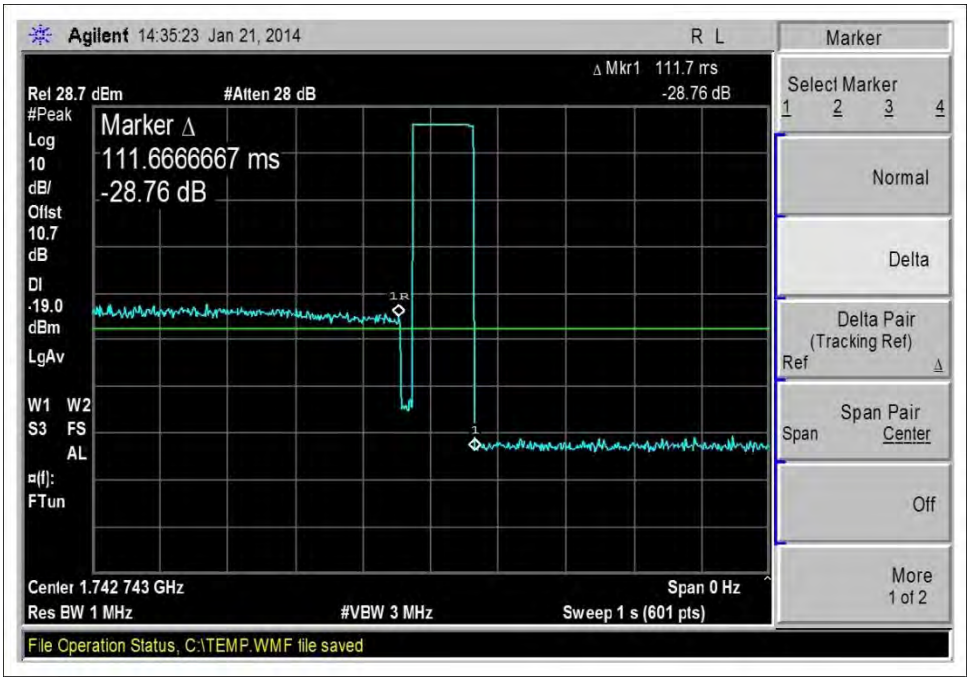

Uplink 698-716MHz Oscillation Mitigation Screen Capture



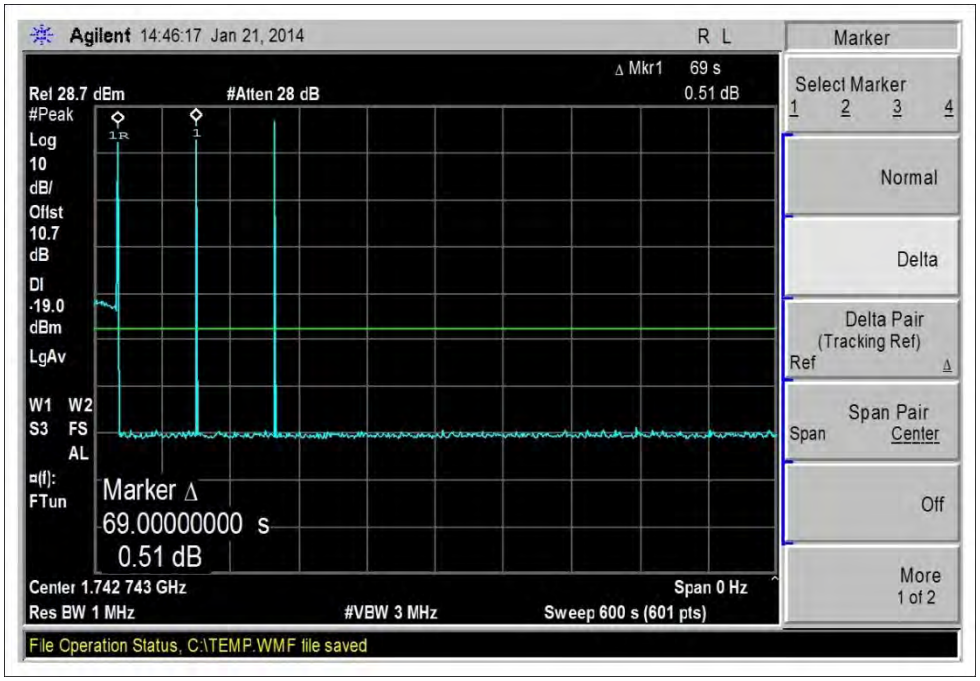

Uplink 824-849MHz Oscillation Detection Screen Capture



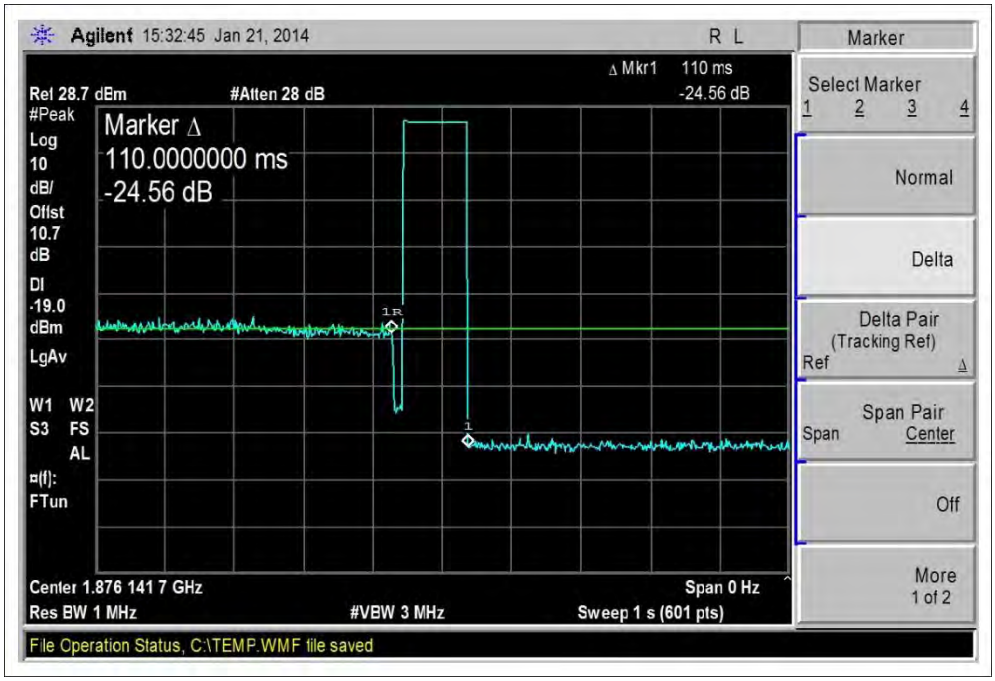

Uplink 824-849MHz Oscillation Mitigation Screen Capture



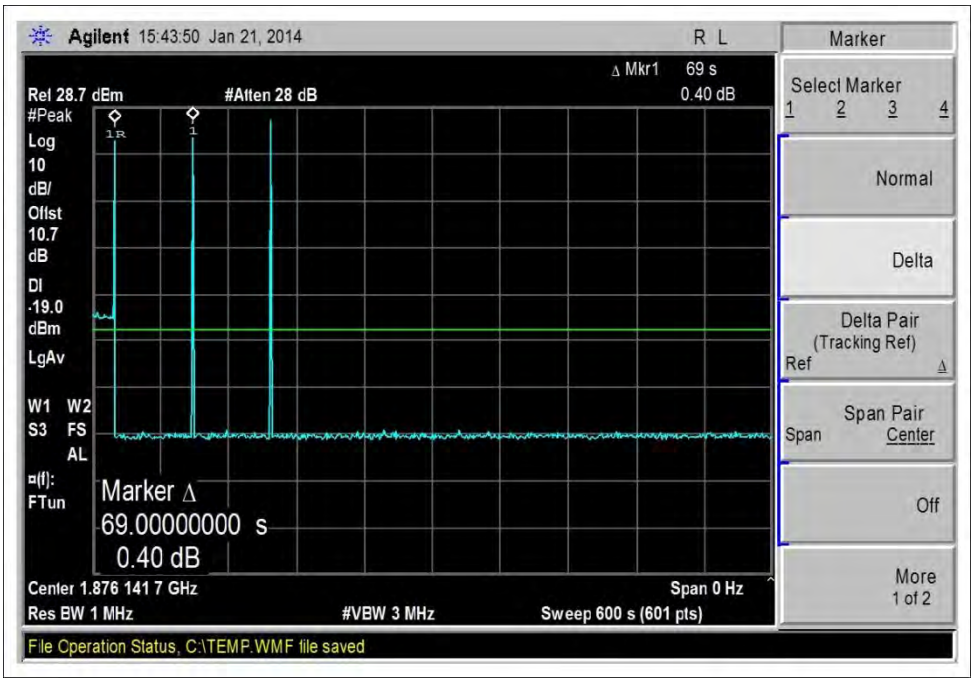

Uplink 1710-1755MHz Oscillation Detection Screen Capture



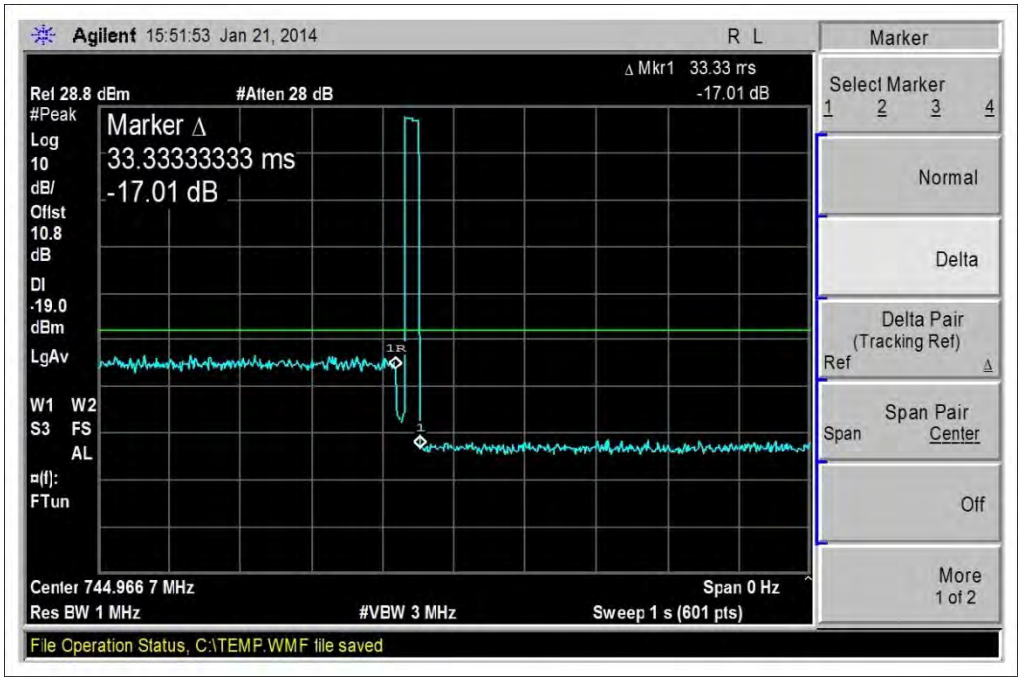

Uplink 1710-1755MHz Oscillation Mitigation Screen Capture



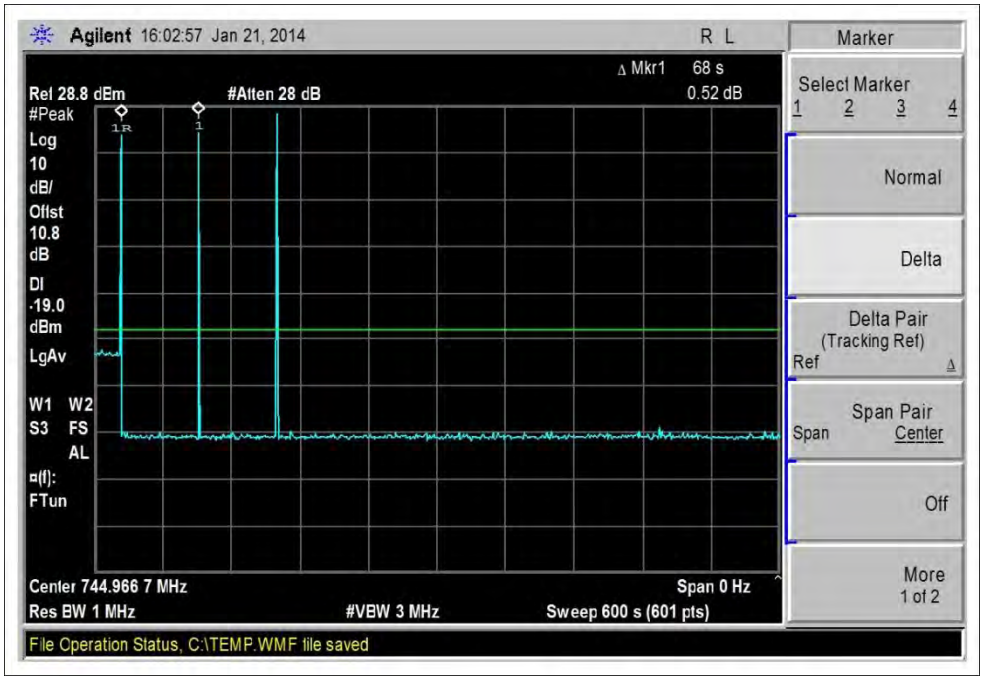

Uplink 1850-1910MHz Oscillation Detection Screen Capture



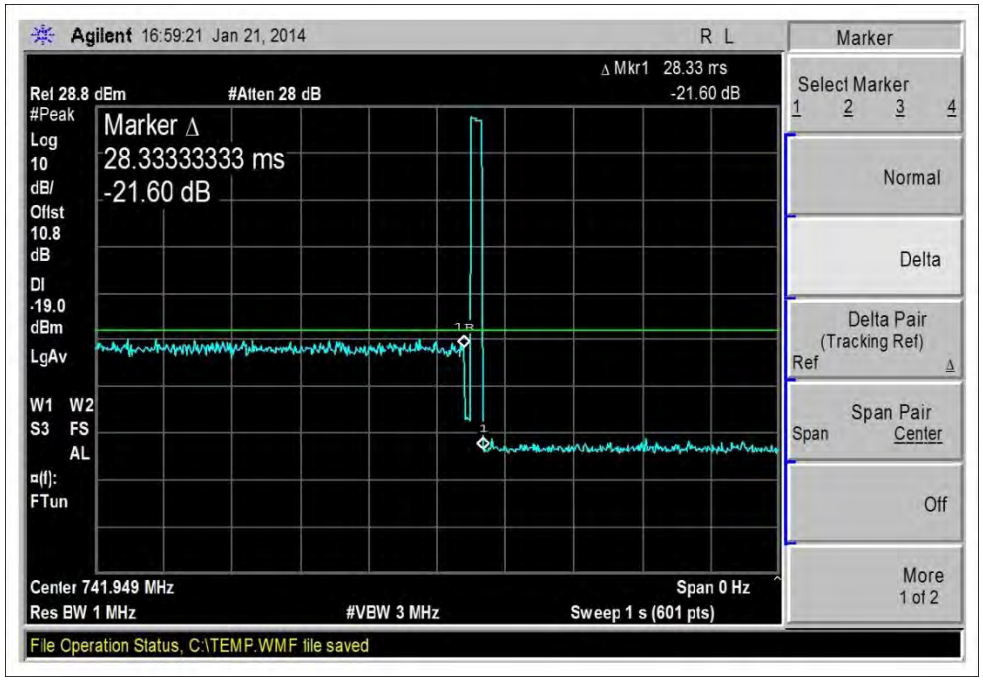

Uplink 1850-1910MHz Oscillation Mitigation Screen Capture



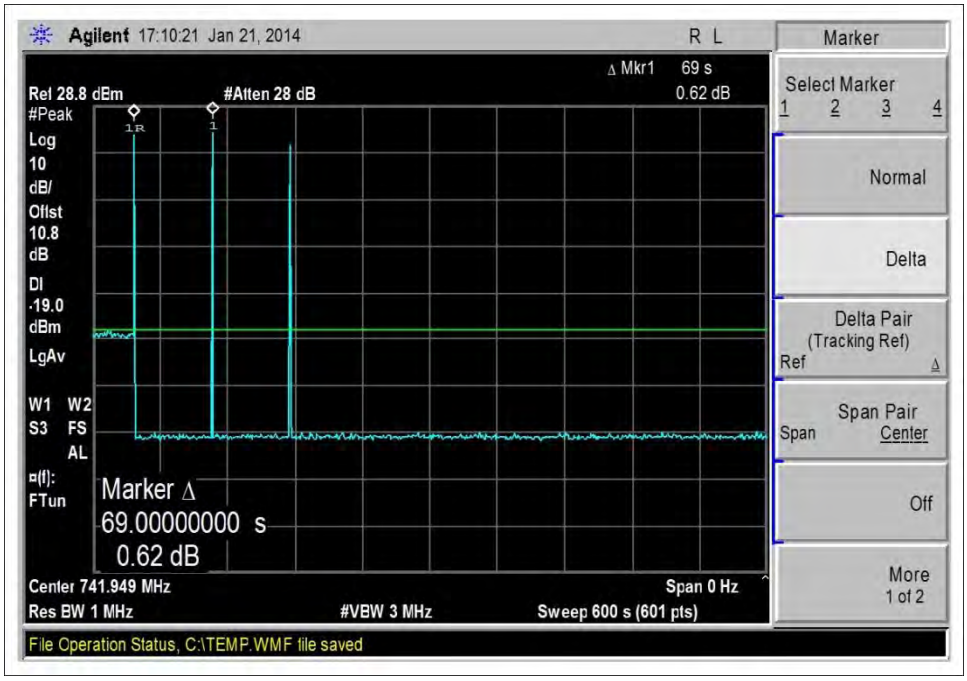

Downlink 746-757MHz Oscillation Detection Screen Capture



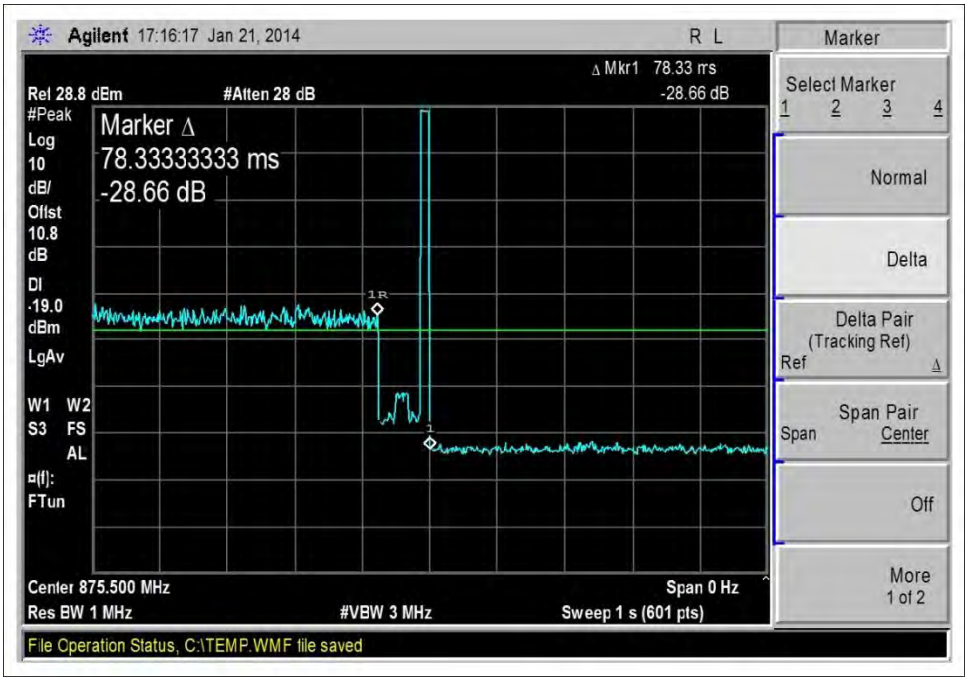

Downlink 746-757MHz Oscillation Mitigation Screen Capture



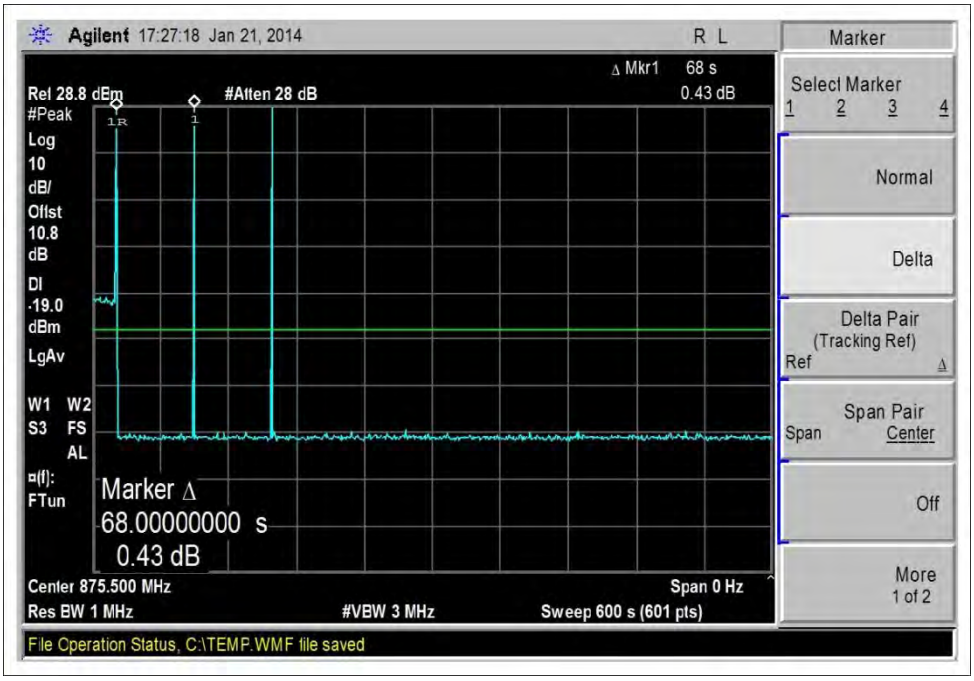

Downlink 728-746MHz Oscillation Detection Screen Capture



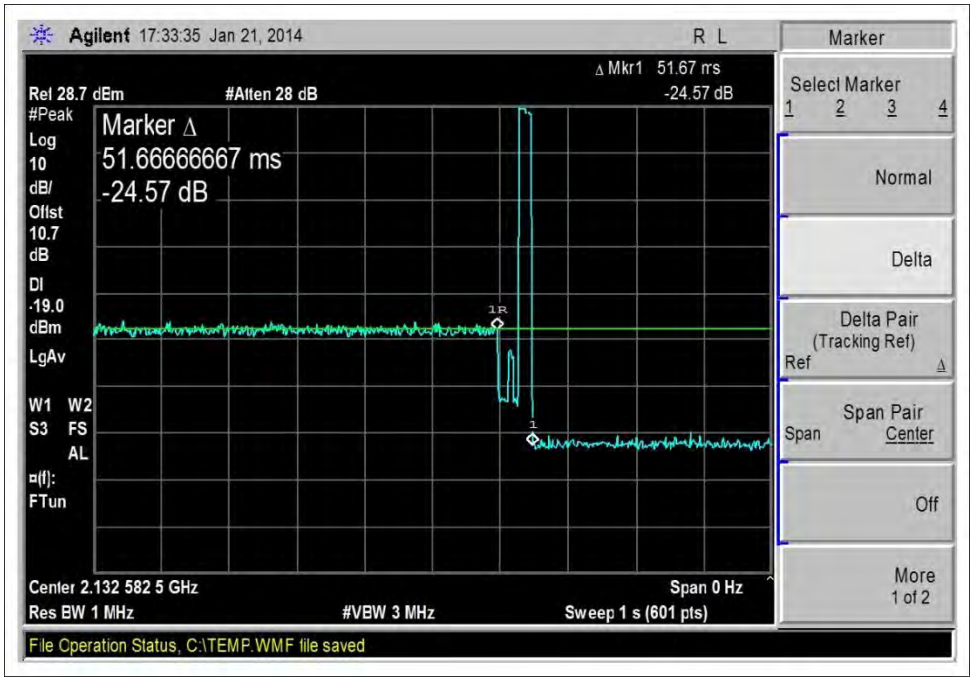

Downlink 728-746MHz Oscillation Mitigation Screen Capture



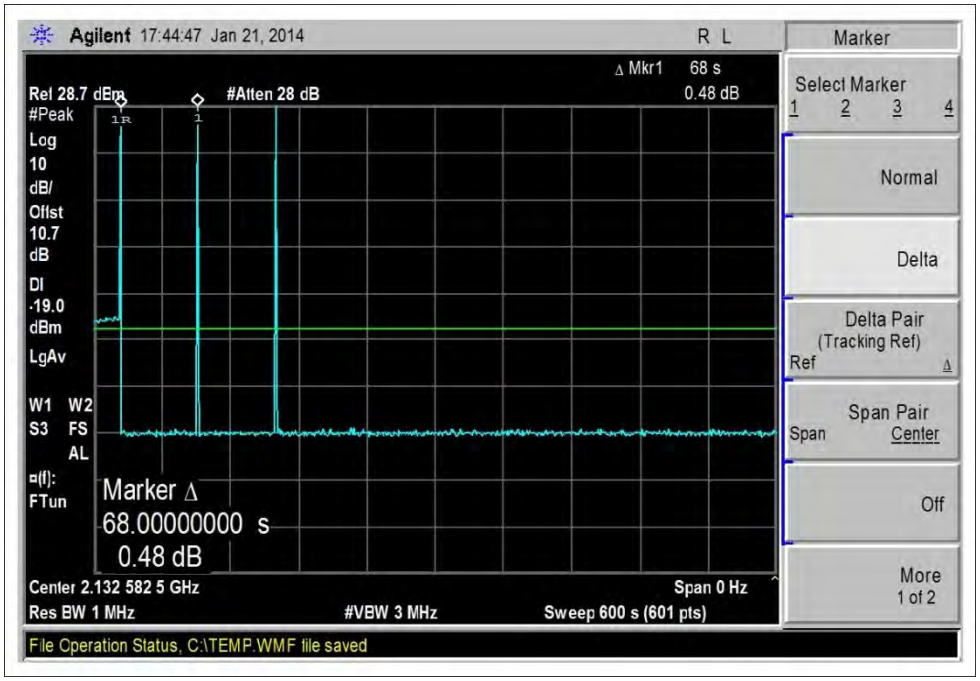

Downlink 869-894MHz Oscillation Detection Screen Capture



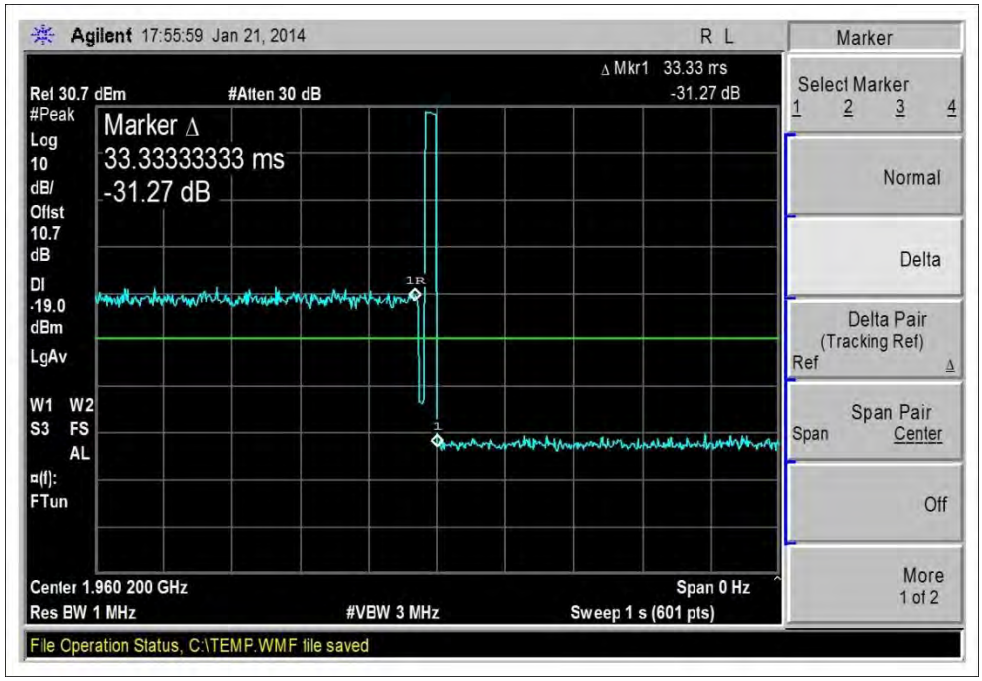

Downlink 869-894MHz Oscillation Mitigation Screen Capture



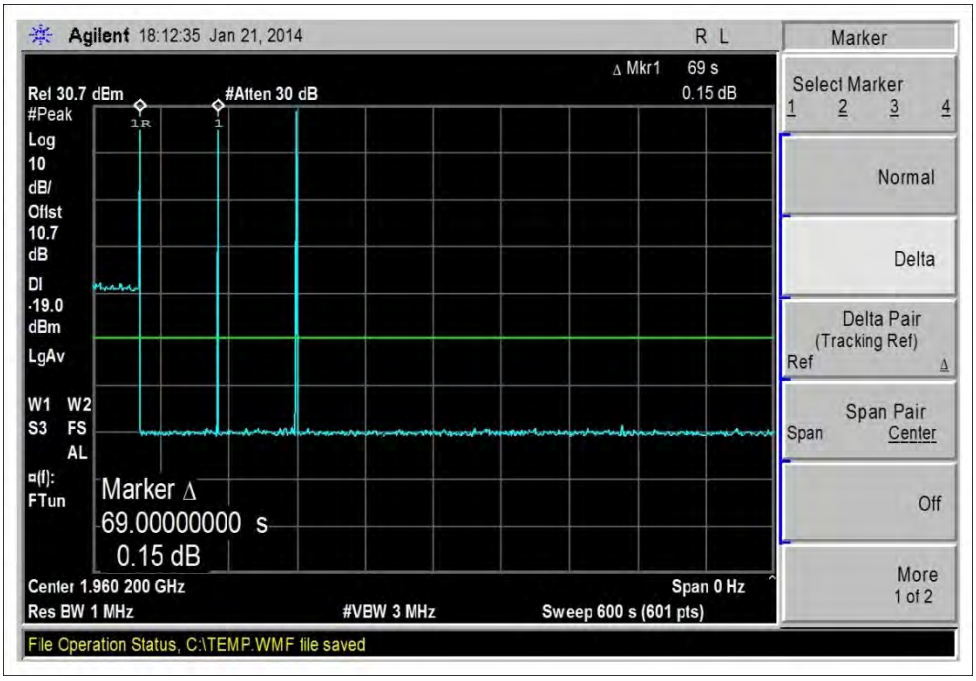

Downlink 2110-2155MHz Oscillation Detection Screen Capture




Downlink 2110-2155MHz Oscillation Mitigation Screen Capture




Downlink 1930-1990MHz Oscillation Detection Screen Capture




Downlink 1930-1990MHz Oscillation Mitigation Screen Capture

## Test Setup Photo(s)

# Clause 7.13 Spectrum Block Filter

**Note:** Section 7.13 of KDB Publication 935210 D04 (2013-08) is not applicable to this EUT because it does not utilize spectrum block filtering.