

FCC CDMA REPORT

FCC Certification

Applicant Name:
SAMSUNG Electronics Co., Ltd.**Date of Issue:**
January 29, 2016**Location:****Address:**
129, Samsung-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, 16677, Rep. of KoreaHCT CO., LTD.,
74, Seoicheon-ro 578beon-gil, Majang-myeon,
Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA**Report No.:** HCT-R-1601-F072**HCT FRN:** 0005866421**FCC ID:** A3LSMJ7109**APPLICANT:** SAMSUNG Electronics Co., Ltd.**FCC Model(s):** SM-J7109**EUT Type:** Mobile Phone**FCC Classification:** Licensed Portable Transmitter Held to Ear (PCE)**FCC Rule Part(s):** §22, §2

Mode	Tx Frequency (MHz)	Rx Frequency (MHz)	Emission Designator	ERP	
				Max. Power (W)	Max. Power (dBm)
CDMA	824.70– 848.31	869.70– 893.31	1M28F9W	0.066	18.16
CDMA EVDO_Rev.0			1M28F9W	0.062	17.90
CDMA EVDO_Rev.A			1M28F9W	0.063	18.02

The measurements shown in this report were made in accordance with the procedures specified in CFR47 section§2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)

**Report prepared by**
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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1601-F072	January 29, 2016	- First Approval Report

Table of Contents

1. GENERAL INFORMATION	4
2. INTRODUCTION	5
2.1. EUT DESCRIPTION.....	5
2.2. MEASURING INSTRUMENT CALIBRATION.....	5
2.3. TEST FACILITY	5
3. DESCRIPTION OF TESTS	6
3.1 ERP RADIATED POWER AND RADIATED SPURIOUS EMISSIONS	6
3.2 OCCUPIED BANDWIDTH.	7
3.3 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL.....	8
3.4 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE	9
4. LIST OF TEST EQUIPMENT	10
5. SUMMARY OF TEST RESULTS	11
6. SAMPLE CALCULATION	12
7. TEST DATA	13
7.1 EFFECTIVE RADIATED POWER	13
7.2 RADIATED SPURIOUS EMISSIONS.....	14
7.2.1 RADIATED SPURIOUS EMISSIONS (CDMA Mode)	14
7.3 OCCUPIED BANDWIDTH	15
7.4 CONDUCTED SPURIOUS EMISSIONS	16
7.4.1 Band Edge	16
7.5 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE	17
7.5.1 RADIATED SPURIOUS EMISSIONS (CDMA Mode)	17
8. TEST PLOTS.....	18

MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	SAMSUNG Electronics Co., Ltd.
Address:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
FCC ID:	A3LSMJ7109
Application Type:	Certification
FCC Classification:	Licensed Portable Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§22, §2
EUT Type:	Mobile Phone
FCC Model(s):	SM-J7109
Tx Frequency:	824.70 — 848.31 MHz (CDMA)
Rx Frequency:	869.70 — 893.31 MHz (CDMA)
Max. RF Output Power:	0.066 W CDMA(18.16 dBm)/ 0.062 W CDMA EVDO_Rev.0 (17.90 dBm) 0.063 W CDMA EVDO_Rev.A(18.02 dBm)
Emission Designator(s):	1M28F9W (CDMA)/1M28F9W (CDMA EVDO_Rev.0) /1M28F9W (CDMA EVDO_Rev.A)
Date(s) of Tests:	January 19, 2016 ~ January 28, 2016
Antenna Specification	Manufacturer: EMW Co., Ltd. Antenna type: Internal Antenna Peak Gain: CDMA850 : -0.52 dBi

2. INTRODUCTION

2.1. EUT DESCRIPTION

The SAMSUNG Electronics Co., Ltd. SM-J7109 Mobile Phone consists of Cellular CDMA, EVDO_Rev.0 and EVDO_Rev.A

2.2. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.3. TEST FACILITY

The Fully-anechoic chamber and conducted measurement facility used to collect the radiated data are located at the **74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA.**

3. DESCRIPTION OF TESTS

3.1 ERP RADIATED POWER AND RADIATED SPURIOUS EMISSIONS

Note: ERP(Effective Radiated Power)

Test Procedure

Radiated emission measurements are performed in the Fully-anechoic chamber. The equipment under test is placed on a non-conductive table 3-meters away from the receive antenna in accordance with ANSI/TIA-603-D-2010 Clause 2.2.17. The turntable is rotated through 360 degrees, and the receiving antenna scans in order to determine the level of the maximized emission. The level and position of the maximized emission is recorded with the spectrum analyzer using RMS detector.

A half wave dipole is then substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.

The power is calculated by the following formula;

$$P_{d(dBm)} = P_{g(dBm)} - \text{cable loss}_{(dB)} + \text{antenna gain}_{(dB)}$$

Where: P_d is the dipole equivalent power and P_g is the generator output power into the substitution antenna.

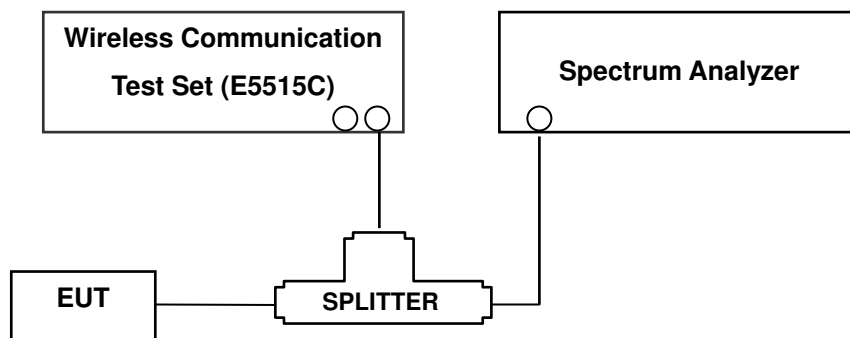
Radiated spurious emissions

1. Frequency Range : 30 MHz ~ 10th Harmonics of highest channel fundamental frequency.
2. The EUT was setup to maximum output power. The 100 kHz RBW was used to scan from 30 MHz to 1 GHz. Also, the 1 MHz RBW was used to scan from 1 GHz to 10 GHz(Cellular CDMA). The high, low and a middle channel were tested for out of band measurements.

Note : This device was tested under all R.C.s and S.O.s and worst case is reported with 'All Up' power control bits.

3.2 OCCUPIED BANDWIDTH.

Test set-up



(Configuration of conducted Emission measurement)

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

Test Procedure

OBW is tested in accordance with KDB971168 D01 Power Meas License Digital Systems v02r02, October 17, 2014, Section 4.2.

The EUT makes a call to the communication simulator. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels(low, middle and high operational range.)

The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

Note : This device was tested under all R.C.s and S.O.s and worst case is reported with 'All Up' power control bits.

3.3 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL.

Test Procedure

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer.

On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB. The RBW settings used in the testing are greater than 1 % of the occupied bw. The 1 MHz RBW was used to scan from 10 MHz to 10 GHz. (GSM1900 Mode: 10 MHz to 20 GHz). A display line was placed at - 13 dBm to show compliance. The high, lowest and a middle channel were tested for out of band measurements.

Measurements of all out of band are made on RBW = 1MHz and VBW $\geq$ 3 MHz in the worst case despite RBW = 100 kHz and VBW $\geq$ 300 kHz upon 1 GHz.

- RBW = 1 MHz
- VBW $\geq$ 3 MHz
- Detector = Peak
- Trace Mode = max hold
- Sweep time = auto
- Number of points in sweep $\geq 2 * \text{Span} / \text{RBW}$

- Band Edge Requirement : According to FCC 22.917 specified that 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. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

The EUT makes a call to the communication simulator. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels(low and high operational frequency range.)

The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

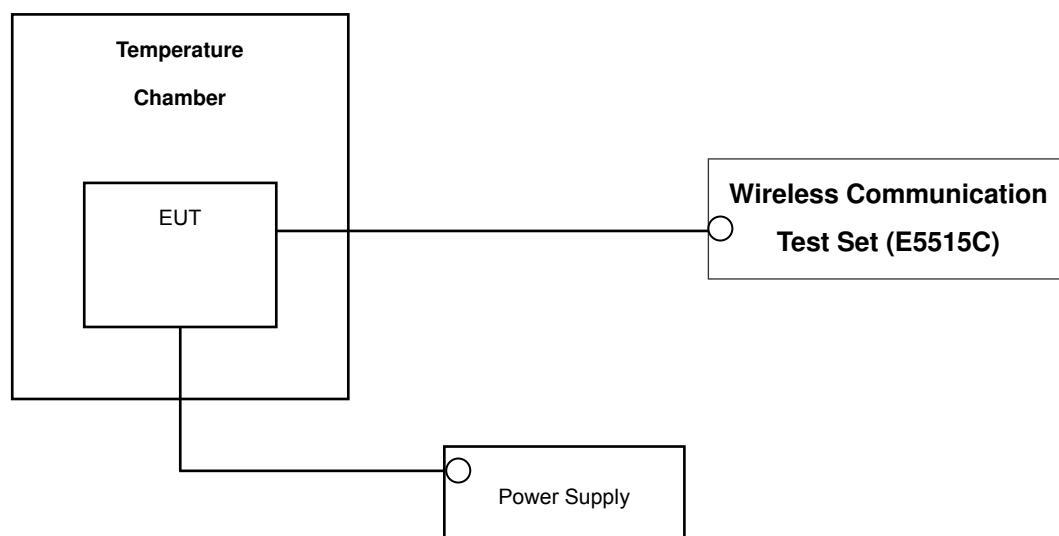
Note : This device was tested under all R.C.s and S.O.s and worst case is reported with 'All Up' power control bits.

NOTES: The analyzer plot offsets were determined by below conditions.

- For CDMA, total offset 27.2 dB = 20 dB attenuator + 6 dB Splitter + 1.2 dB RF cables,

3.4 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

Test Set-up



* Nominal Operating Voltage

Test Procedure

Frequency stability is tested in accordance with ANSI/TIA-603-D-2010 section 2.2.2.

The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from - 30 °C to + 50 °C using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from battery end point to 100 % of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied.

Specification — the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency (Cellular CDMA).

Time Period and Procedure:

The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).

1. The equipment is turned on in a "standby" condition for one minute before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
2. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

NOTE: The EUT is tested down to the battery endpoint.

Note : This device was tested under all R.C.s and S.O.s and worst case is reported with 'All Up' power control bits.

4. LIST OF TEST EQUIPMENT

Manufacture	Model/ Equipment	Serial Number	Calibration Interval	Calibration Due
Agilent	N1921A/ Power Sensor	MY45241059	Annual	07/09/2016
Agilent	N1911A/ Power Meter	MY45100523	Annual	07/09/2016
CERNEX	CBLU1183540/ POWER AMP	24612	Annual	05/21/2016
Wainwright	WHKX 10-900-1000-15000-40SS/H.P.F	5	Annual	08/11/2016
Wainwright	WHKX10-2700-3000-18000-40SS/H.P.F	3	Annual	08/05/2016
Hewlett Packard	11667B / Power Splitter	10545	Annual	02/16/2016
Hewlett Packard	11667B / Power Splitter	11275	Annual	04/29/2016
ITECH	IT6720/ Power Supply	0100215626700119	Annual	11/02/2016
Schwarzbeck	UHAP/ Dipole Antenna	557	Biennial	03/23/2017
Schwarzbeck	UHAP/ Dipole Antenna	558	Biennial	03/23/2017
EXP	EX-TH400/ Chamber	None	Annual	05/29/2016
Schwarzbeck	BBHA 9120D/ Horn Antenna	9210D-1298	Biennial	10/16/2016
Schwarzbeck	BBHA 9120D/ Horn Antenna	9210D-1299	Biennial	10/16/2016
Schwarzbeck	BBHA 9170/ Horn Antenna(15~40GHz)	BBHA9170342	Biennial	04/30/2017
Schwarzbeck	BBHA 9170/ Horn Antenna(15~35GHz)	BBHA9170124	Biennial	04/30/2017
Agilent	E4440A/Spectrum Analyzer	US45303008	Annual	03/18/2016
Hewlett Packard	8493C/ATTENUATOR	17280	Annual	06/29/2016
REOHDE&SCHWARZ	FSV40-N/Signal Analyzer	101068-SZ	Annual	09/23/2016
REOHDE&SCHWARZ	FSV40/Spectrum Analyzer	1307.9002K40-100931-NK	Annual	06/04/2016
Agilent	8960 (E5515C)/ Base Station	MY48360800	Annual	10/30/2016
Anritsu Corp.	MT8820C/Wideband Radio Communication Tester	6200863156	Annual	03/24/2016

5. SUMMARY OF TEST RESULTS

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result
2.1049	Occupied Bandwidth	N/A	CONDUCTED	PASS
2.1051, 22.917(a)	Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	$< 43 + 10\log_{10}(P[\text{Watts}])$ at Band Edge and for all out-of-band emissions		PASS
* 2.1046	Conducted Output Power	-		PASS
2.1055, 22.355	Frequency stability / variation of ambient temperature	$< 2.5 \text{ ppm}$		PASS
22.913(a)(2)	Effective Radiated Power	$< 7 \text{ Watts max. ERP}$	RADIATED	PASS
2.1053, 22.917(a)	Radiated Spurious and Harmonic Emissions	$< 43 + 10\log_{10}(P[\text{Watts}])$ for all out-ofband emissions		PASS

*: See SAR Report

6. SAMPLE CALCULATION

A. ERP Sample Calculation

Mode	Ch./ Freq.		Measured Level(dBm)	Substitute LEVEL(dBm)	Ant. Gain (dBd)	C.L	Pol.	ERP	
	channel	Freq.(MHz)						W	dBm
CDMA	384	836.52	-23.45	38.92	-10.53	0.88	V	0.564	27.51

ERP = Substitute LEVEL(dBm) + Ant. Gain – CL(Cable Loss)

- 1) The EUT mounted on a non-conductive turntable is 2.5 meter above test site ground level.
- 2) During the test , the turn table is rotated until the maximum signal is found.
- 3) Record the field strength meter's level.
- 4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item (3).
- 6) The signal generator output level with Ant. Gain and cable loss are the rating of effective radiated power (**ERP**).

B. Emission Designator

CDMA Emission Designator

Emission Designator = 1M27F9W

CDMA BW = 1.27 MHz

(Measured at the 99% power bandwidth)

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

7. TEST DATA

7.1 EFFECTIVE RADIATED POWER

(CDMA Mode)

Mode	Ch./ Freq.		Measured Level (dBm)	Substitute LEVEL (dBm)	Ant. Gain (dBd)	C.L	Pol.	ERP	
	channel	Freq.(MHz)						W	dBm
CDMA	1013	824.70	-33.30	28.67	-10.59	0.88	V	0.052	17.20
	384	836.52	-32.29	29.48	-10.54	0.89	V	0.064	18.05
	777	848.31	-31.41	29.54	-10.49	0.89	V	0.066	18.16
EVDO Rev.0	1013	824.70	-33.36	28.61	-10.59	0.88	V	0.052	17.14
	384	836.52	-32.73	29.04	-10.54	0.89	V	0.058	17.61
	777	848.31	-31.67	29.28	-10.49	0.89	V	0.062	17.90
EVDO Rev.A	1013	824.70	-33.21	28.76	-10.59	0.88	V	0.054	17.29
	384	836.52	-32.60	29.17	-10.54	0.89	V	0.059	17.74
	777	848.31	-31.55	29.40	-10.49	0.89	V	0.063	18.02

NOTES:

Effective Radiated Power Output Measurements by Substitution Method

according to ANSI/TIA/EIA-603-D-2010 June 24, 2010:

The EUT was placed on a non-conductive styrofoam resin table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, RBW = 1-5% of the OBW, not to exceed 1MHz, VBW $\geq 3 \times$ RBW, Detector = RMS. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the dipole is measured. The ERP is recorded.

This device was tested under all configurations and the highest power is reported. Also, we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

The worst case of the EUT is in y plane in CDMA mode, CDMA EVDO_Rev.0 mode and CDMA EVDO_Rev.A mode. Also worst case of detecting Antenna is in vertical polarization in CDMA mode, CDMA EVDO_Rev.0 mode and CDMA EVDO_Rev.A mode.

7.2 RADIATED SPURIOUS EMISSIONS

7.2.1 RADIATED SPURIOUS EMISSIONS (CDMA Mode)

- ☐ MEASURED OUTPUT POWER: 18.16 dBm = 0.066 W
☐ MODULATION SIGNAL: CDMA
☐ DISTANCE: 3 meters
☐ LIMIT: $43 + 10 \log_{10} (W) =$ 31.16dBc

Ch.	Freq.(MHz)	Measured Level [dBm]	Ant. Gain (dBd)	Substitute Level [dBm]	C.L	Pol.	ERP (dBm)	dBc
1013 (824.70)	1,649.40	-57.27	9.71	-65.31	1.29	V	-56.89	75.05
	2,474.10	-58.69	10.54	-63.79	1.60	H	-54.85	73.01
	3,298.80	-58.76	12.23	-63.84	1.85	H	-53.46	71.62
384 (836.52)	1,673.04	-52.21	9.77	-60.36	1.28	H	-51.87	70.03
	2,509.56	-57.78	10.65	-62.77	1.61	H	-53.73	71.89
	3,346.08	-58.90	12.41	-64.38	1.86	V	-53.83	71.99
777 (848.31)	1,696.62	-52.83	9.84	-61.06	1.30	H	-52.52	70.68
	2,544.93	-57.12	10.72	-62.00	1.64	V	-52.92	71.08
	3,393.24	-59.01	12.40	-64.30	1.86	H	-53.76	71.92

NOTES: 1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method

according to ANSI/TIA/EIA-603-D-2010 June 24, 2010:

2. We are performed all frequency to 10th harmonics from 30 MHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

7.3 OCCUPIED BANDWIDTH

Band	Channel	Frequency(MHz)	Data (MHz)
CDMA	1013	824.70	1.2729
	384	836.52	1.2770
	777	848.31	1.2734
CDMA EVDO_Rev.0	1013	824.70	1.2773
	384	836.52	1.2752
	777	848.31	1.2700
CDMA EVDO_Rev.A	1013	824.70	1.2758
	384	836.52	1.2793
	777	848.31	1.2673

- Plots of the EUT's Occupied Bandwidth are shown Page 19 ~ 23.

7.4 CONDUCTED SPURIOUS EMISSIONS

■ FACTORS FOR FREQUENCY

Frequency Range (GHz)	Factor [dB]
0.03 – 1	27.145
1 – 5	26.960
5 – 10	27.542
10 – 15	28.439
15 – 20	29.144
Above 20	30.148

NOTES:

Factor(dB) = Cable Loss + Attenuator + Power Splitter

Band	Channel	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)
CDMA	1013	9.3900	27.542	-56.693	-29.151
	384	9.3785	27.542	-56.642	-29.100
	777	9.9650	27.542	-56.297	-28.755

NOTES:

1. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)

- Plots of the EUT's Conducted Spurious Emissions are shown Page 29 ~ 32.

7.4.1 Band Edge

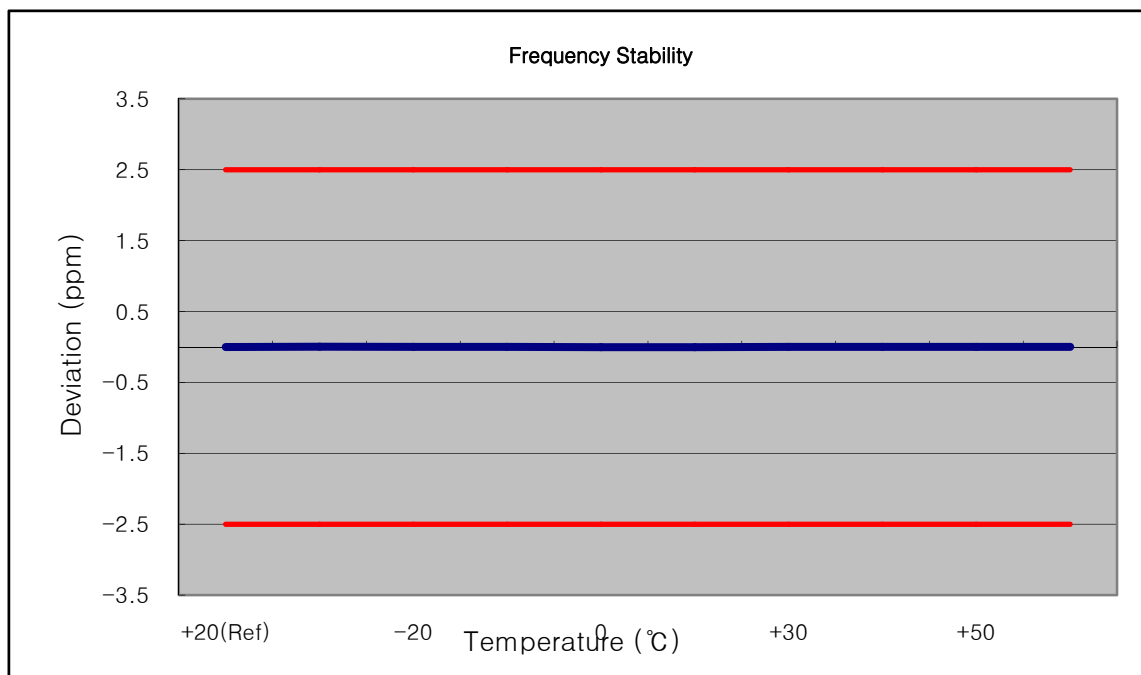
- Plots of the EUT's Band Edge are shown Page 23 ~ 29.

7.5 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

7.5.1 RADIATED SPURIOUS EMISSIONS (CDMA Mode)

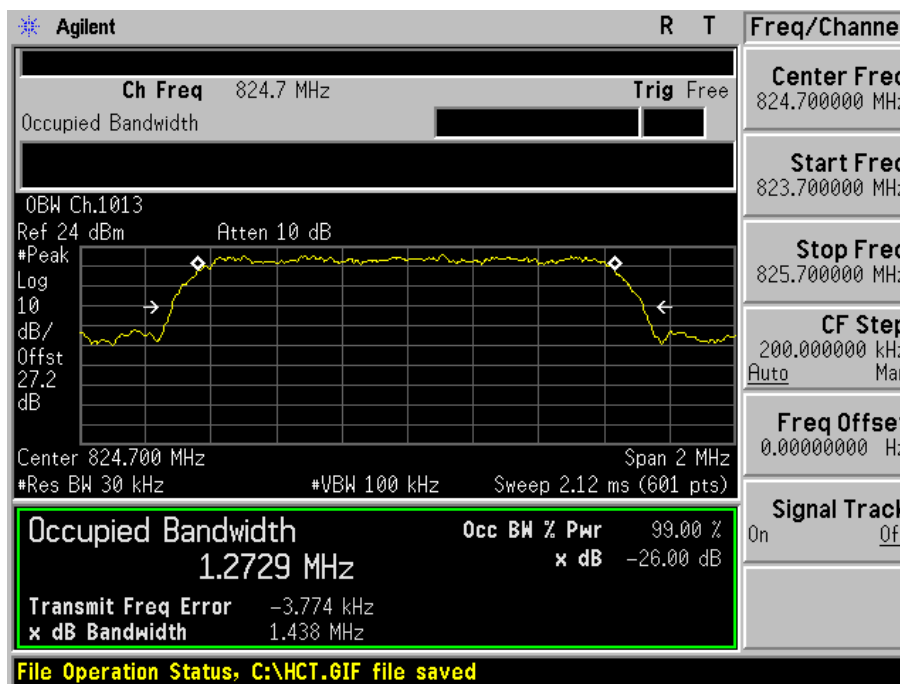
- OPERATING FREQUENCY: 836,520,000 Hz
- CHANNEL: 384
- REFERENCE VOLTAGE: 3.85 VDC
- DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.85	+20(Ref)	836 520 001	0.00	0.000 000	0.000
100%		-30	836 520 004	2.95	0.000 000	0.004
100%		-20	836 520 003	1.93	0.000 000	0.002
100%		-10	836 520 003	2.03	0.000 000	0.002
100%		0	836 520 000	-1.26	0.000 000	-0.002
100%		+10	836 519 999	-1.68	0.000 000	-0.002
100%		+30	836 520 003	2.12	0.000 000	0.003
100%		+40	836 520 003	2.45	0.000 000	0.003
100%		+50	836 520 003	1.87	0.000 000	0.002
Batt. Endpoint	3.40	+20	836 520 003	2.19	0.000 000	0.003

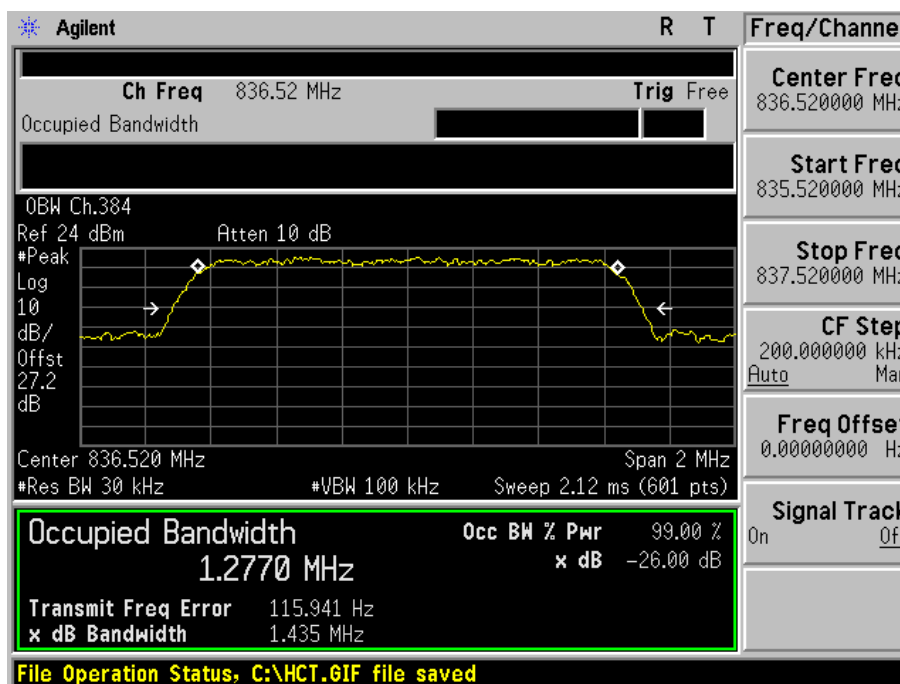


8. TEST PLOTS

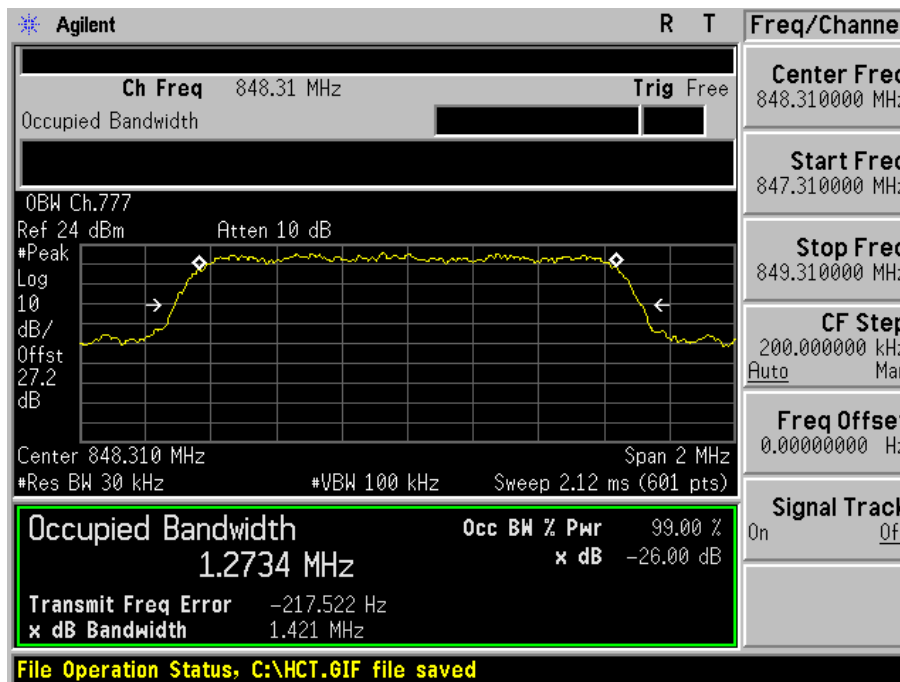
■ CDMA MODE (1013 CH.) Occupied Bandwidth



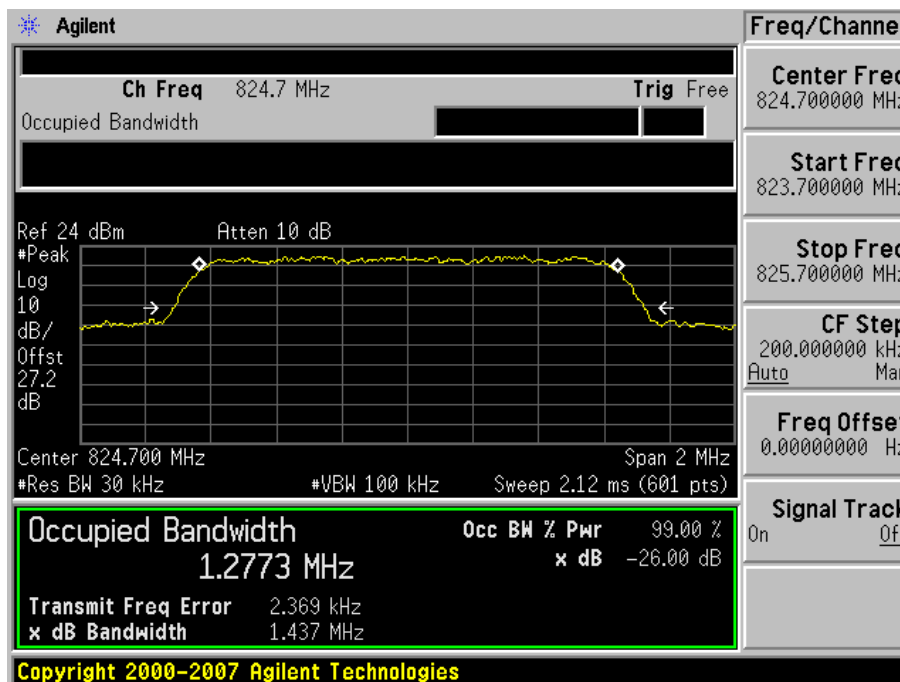
■ CDMA MODE (384 CH.) Occupied Bandwidth



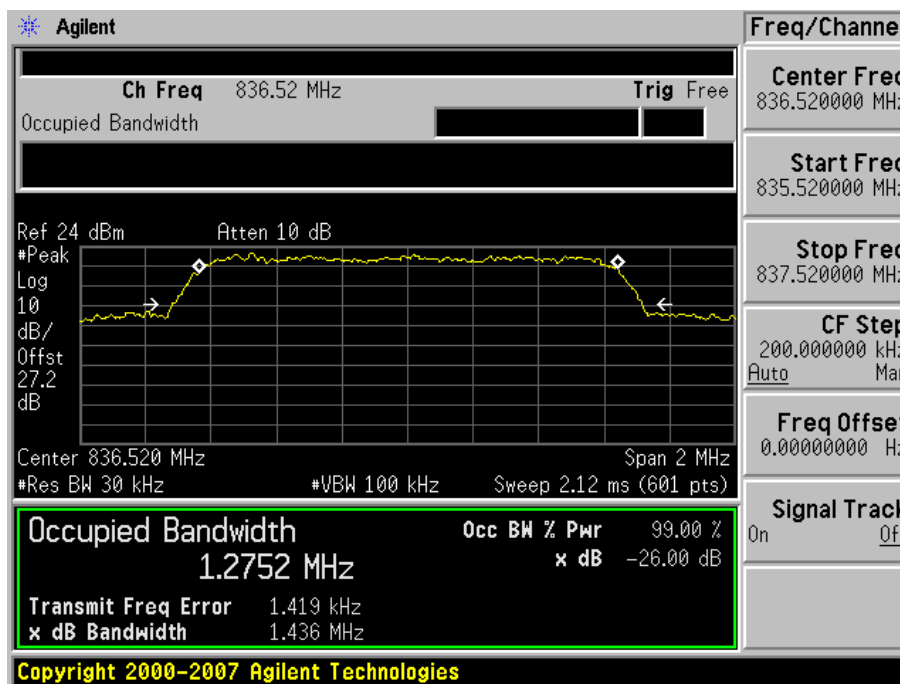
■ CDMA MODE (777 CH.) Occupied Bandwidth



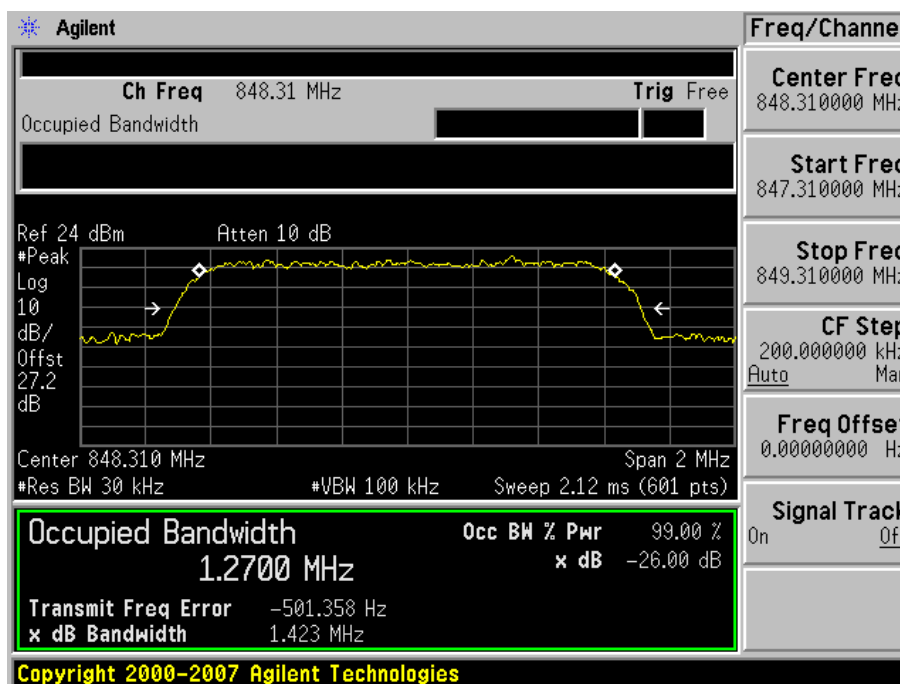
■ CDMA EVDO_Rev.0 MODE (1013 CH.) Occupied Bandwidth



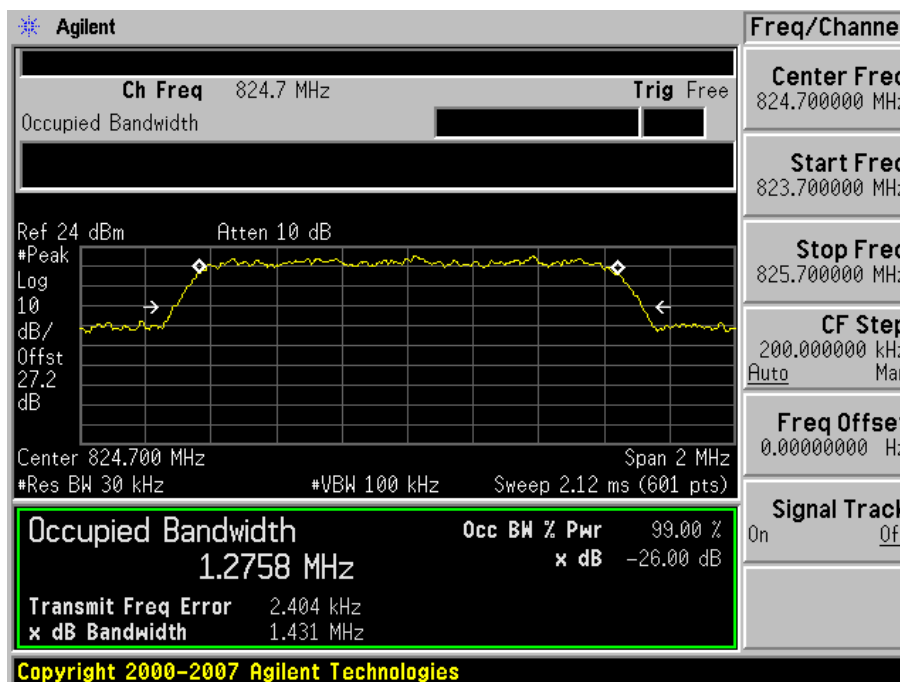
■ CDMA EVDO_Rev.0 MODE (384 CH.) Occupied Bandwidth



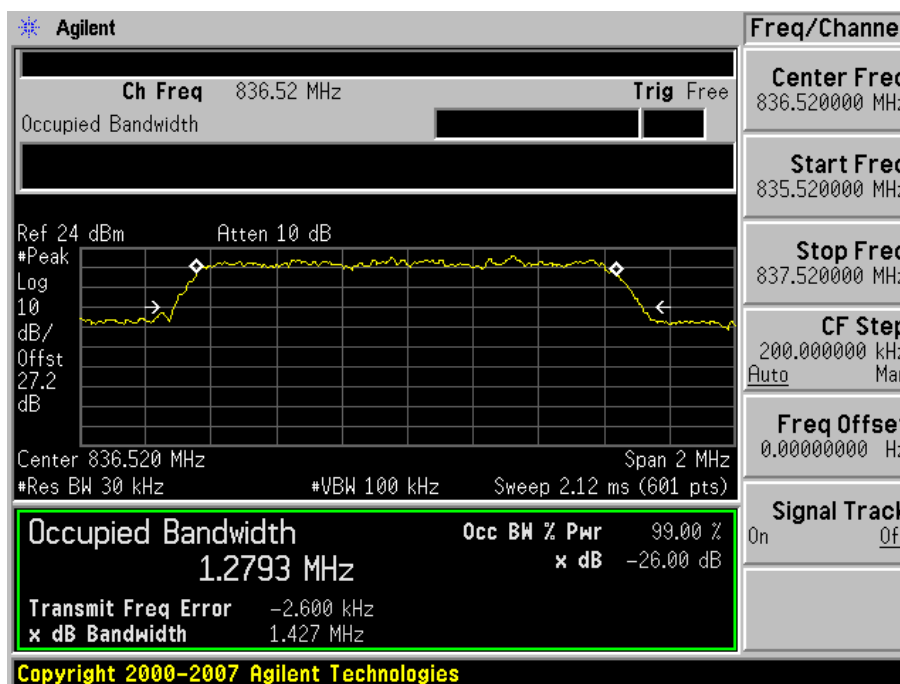
■ CDMA EVDO_Rev.0 MODE (777 CH.) Occupied Bandwidth



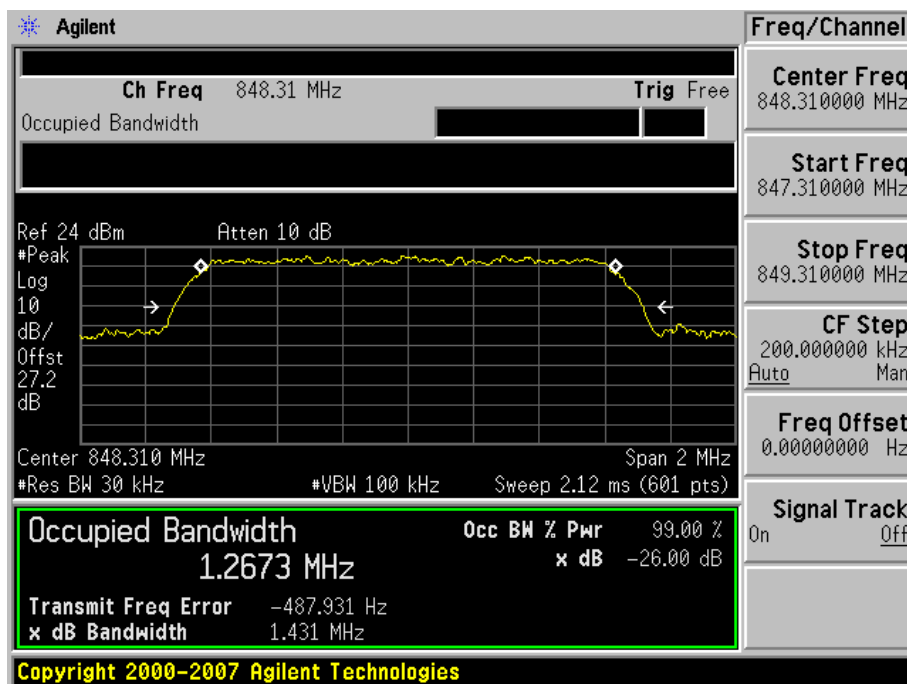
■ CDMA EVDO_Rev.A MODE (1013 CH.) Occupied Bandwidth



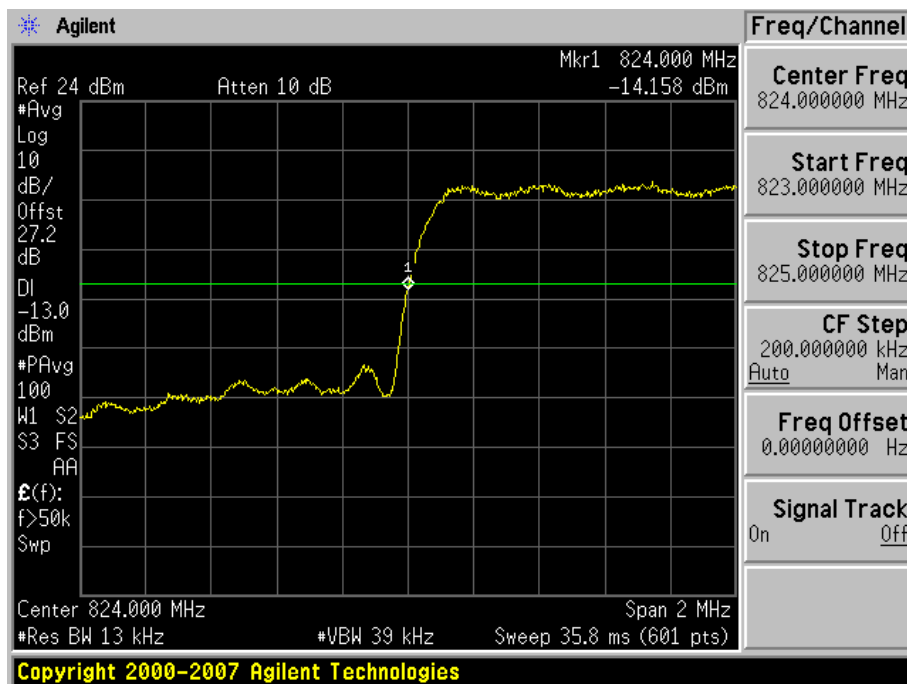
■ CDMA EVDO_Rev.A MODE (384 CH.) Occupied Bandwidth



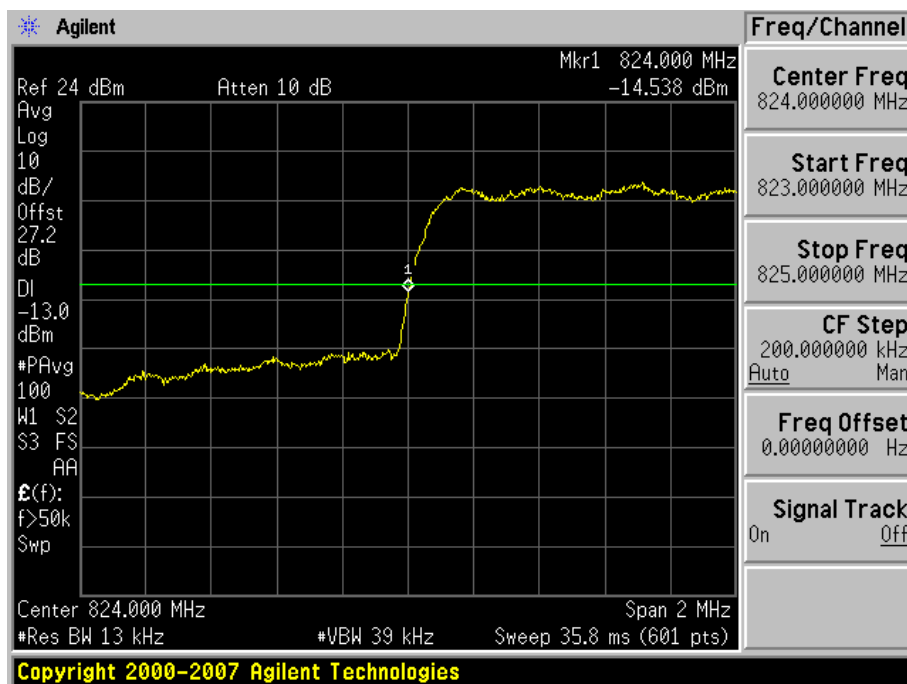
■ CDMA EVDO_Rev.A MODE (777 CH.) Occupied Bandwidth



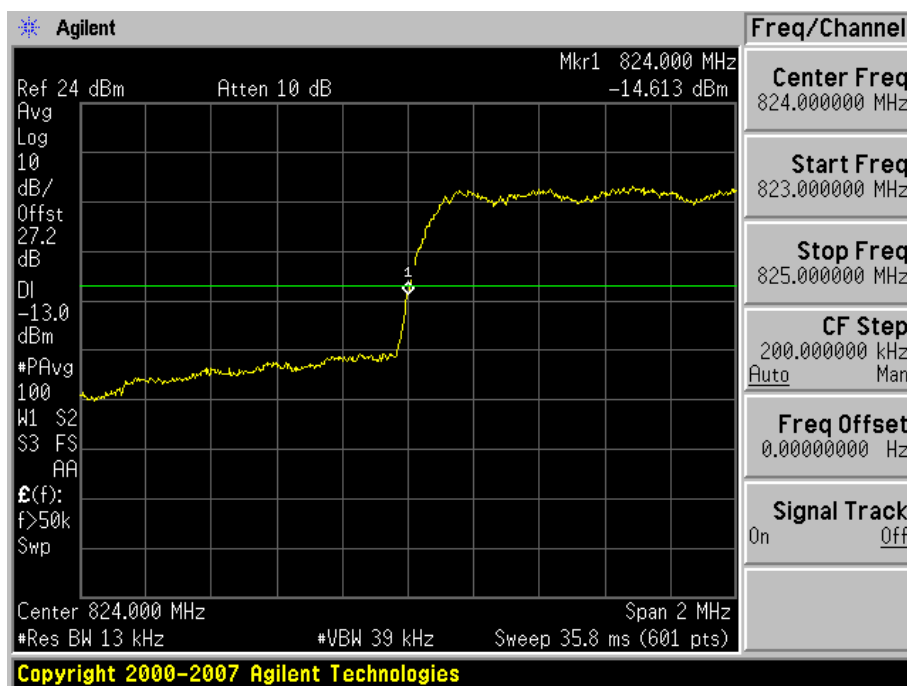
■ CDMA MODE (1013 CH.) Block Edge



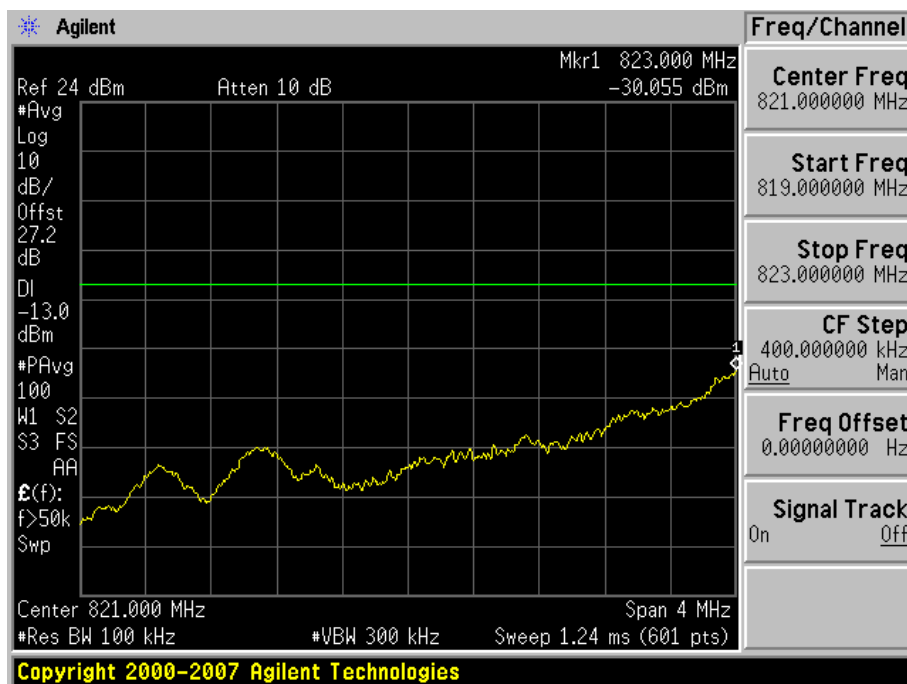
■ CDMA EVDO_Rev.0 MODE (1013 CH.) Block Edge



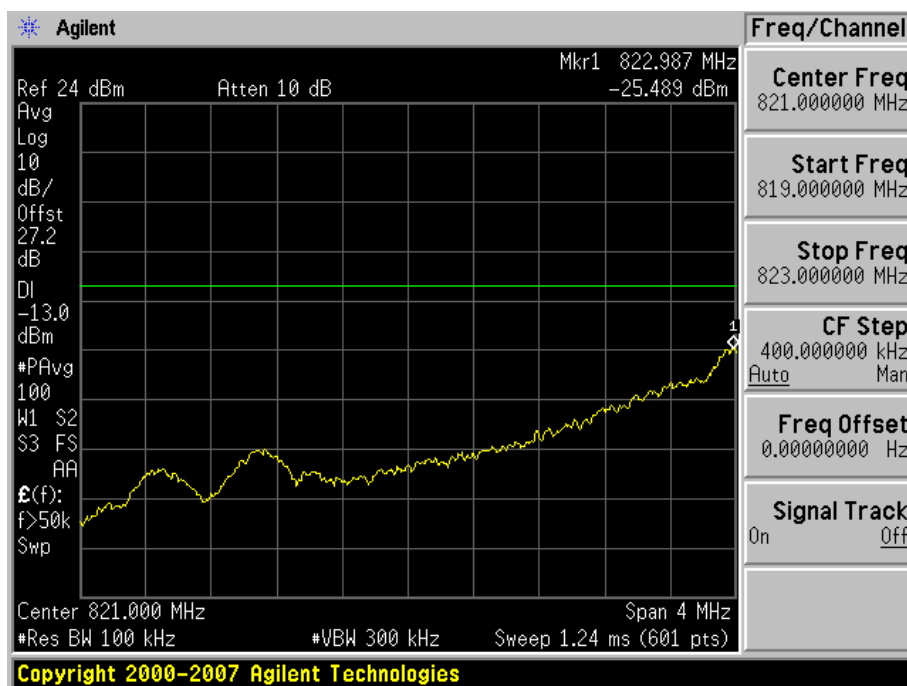
■ CDMA EVDO_Rev.A MODE (1013 CH.) Block Edge



■ CDMA MODE (1013 CH.) 4 MHz Span



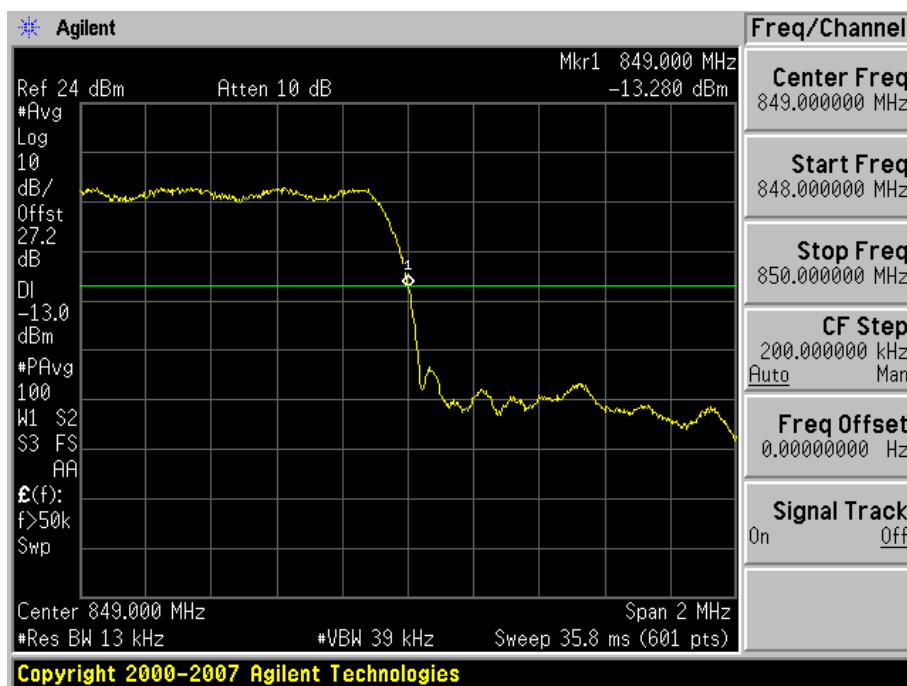
■ CDMA EVDO_Rev.0 MODE (1013 CH.) 4 MHz Span



■ CDMA EVDO_Rev.A MODE (1013 CH.) 4 MHz Span



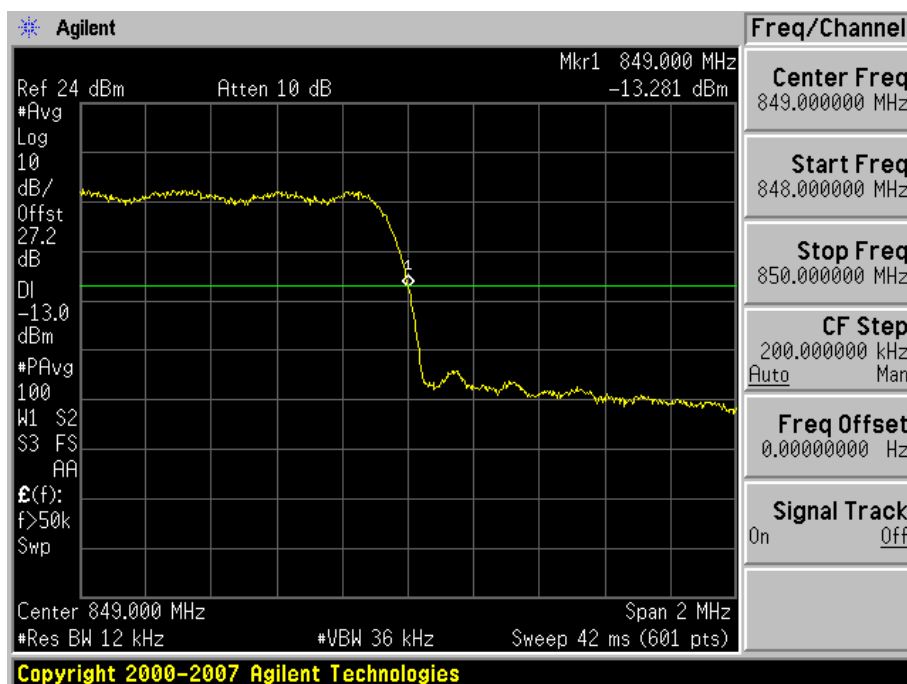
■ CDMA MODE (777 CH.) Block Edge



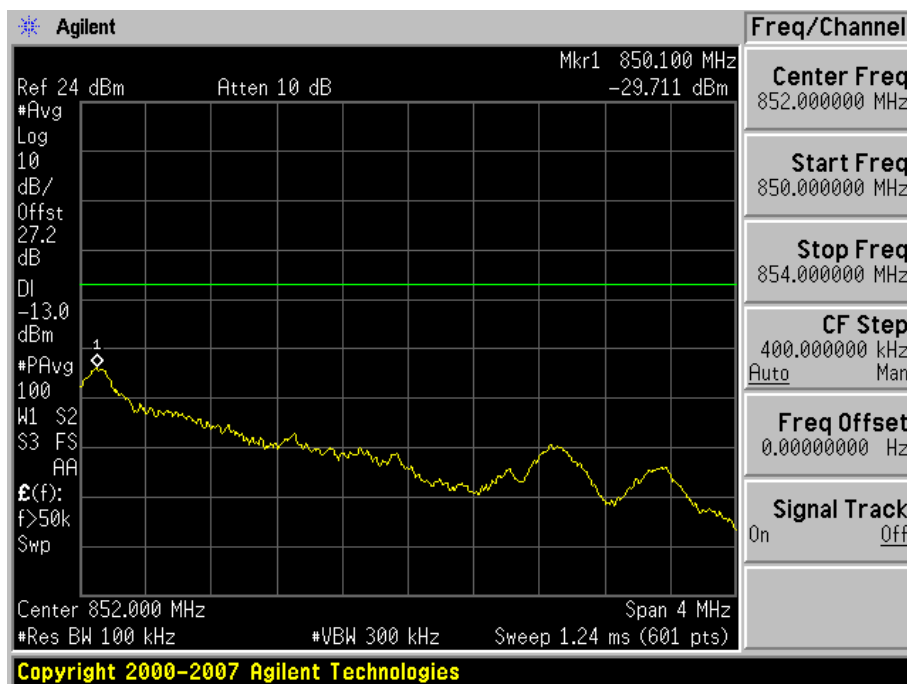
■ CDMA EVDO_Rev.0 MODE (777 CH.) Block Edge



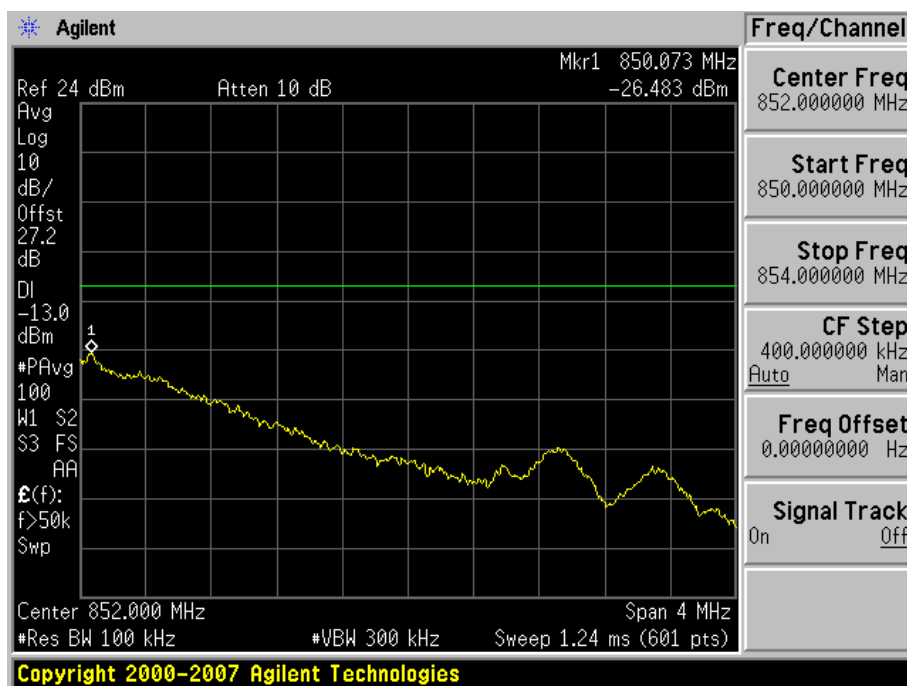
■ CDMA EVDO_Rev.A MODE (777 CH.) Block Edge

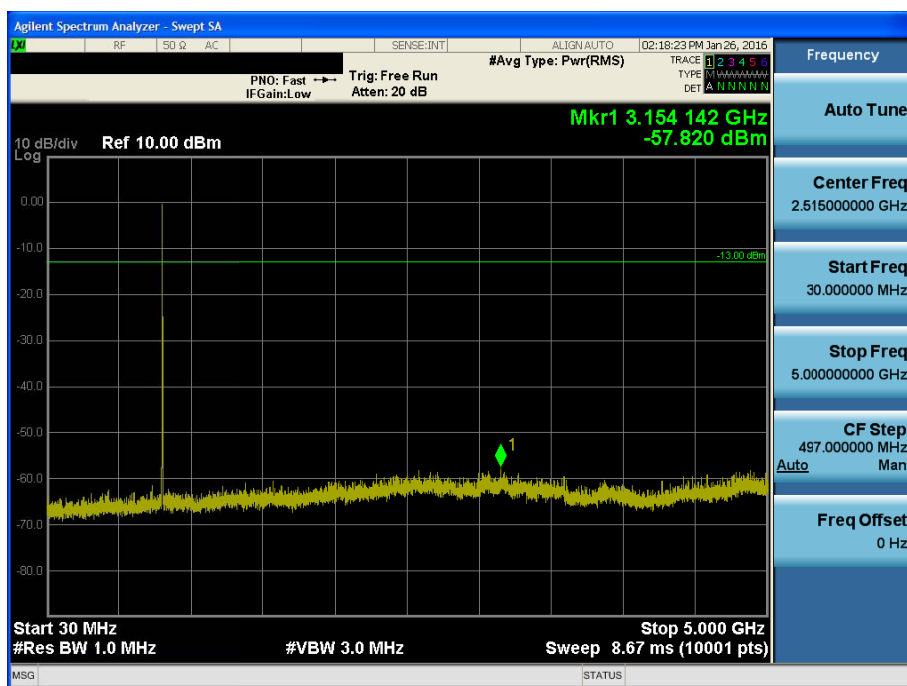
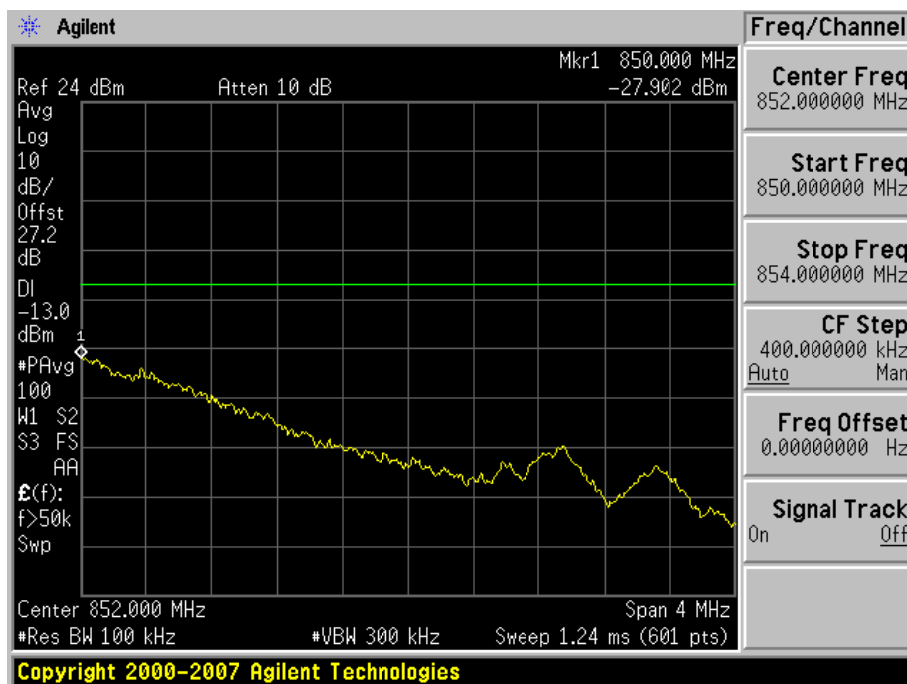


■ CDMA MODE (777 CH.) 4 MHz Span

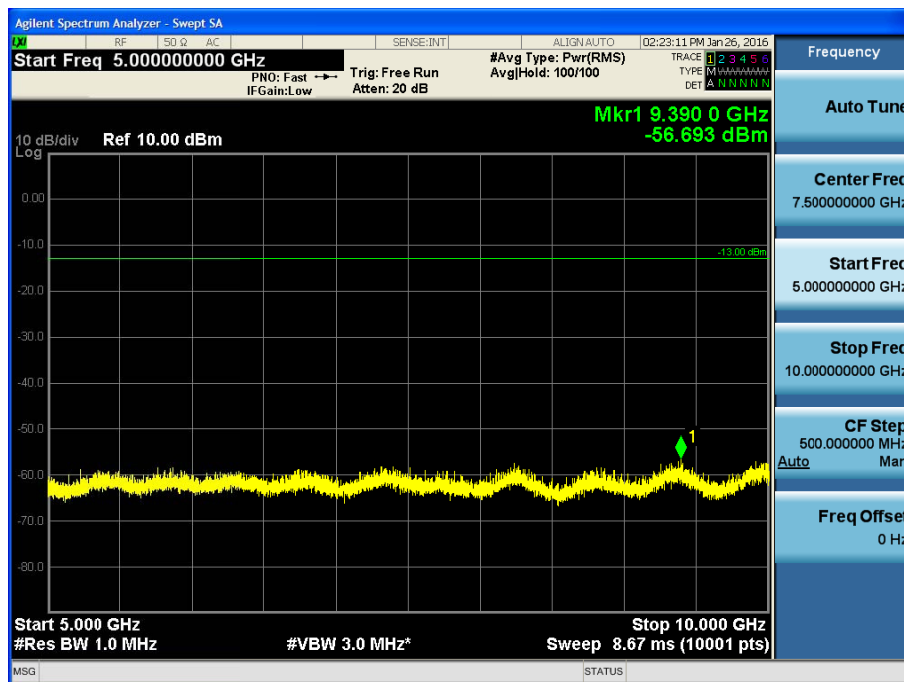


■ CDMA EVDO_Rev.0 MODE (777 CH.) 4 MHz Span

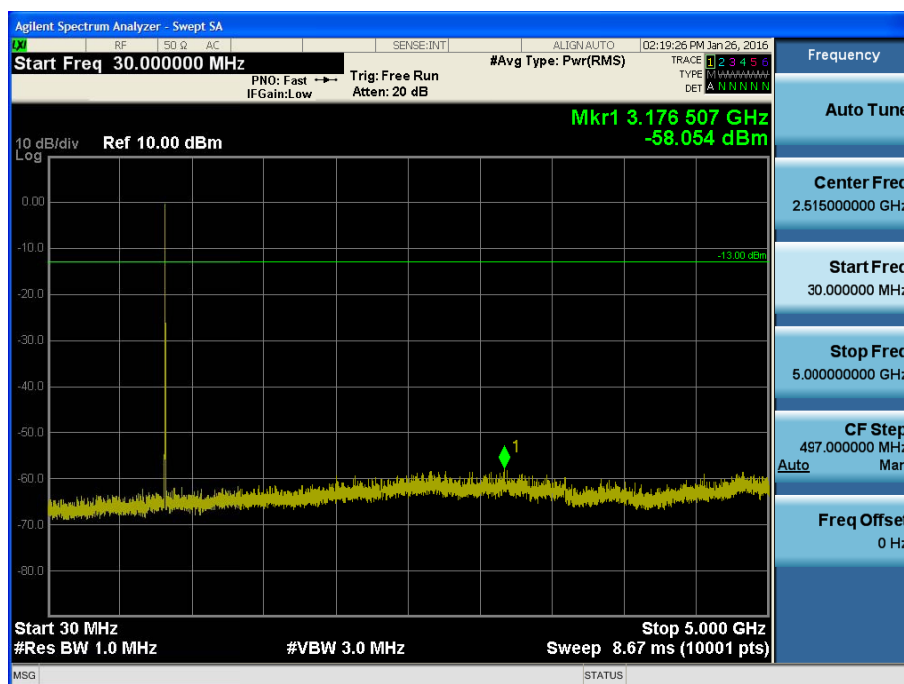




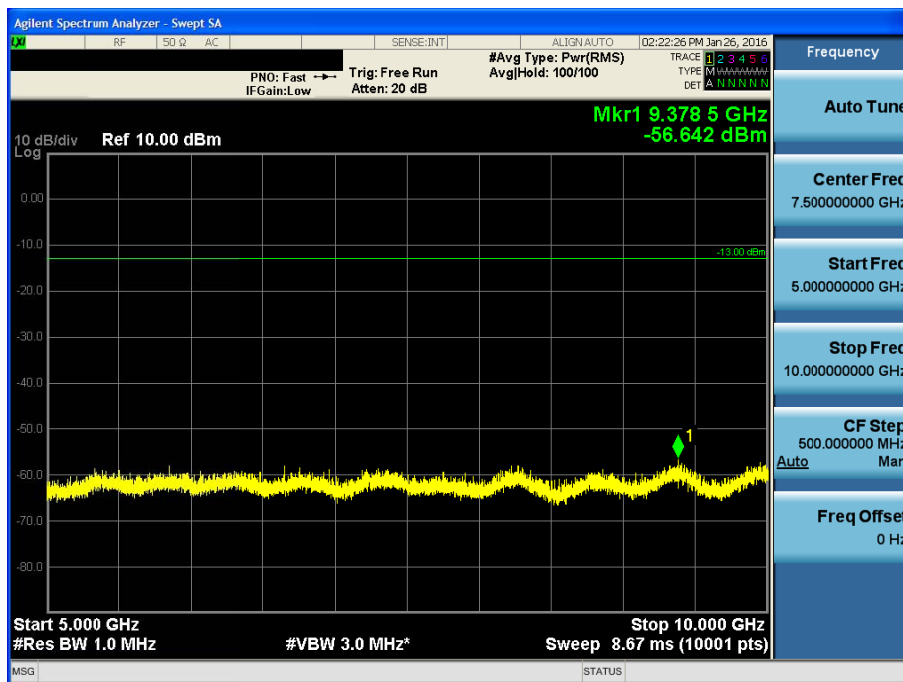
■ CDMA MODE (1013 CH.) Conducted Spurious Emissions – 2



■ CDMA MODE (384 CH.) Conducted Spurious Emissions – 1



■ CDMA MODE (384 CH.) Conducted Spurious Emissions – 2



■ CDMA MODE (777 CH.) Conducted Spurious Emissions – 1

