



SAMSUNG ELECTRONICS Co., Ltd.,
Regulatory Compliance Group
IT R&D Center
416 Maetan3-Dong,
Yeongtong-gu, Suwon city,
Gyeonggi-Do, Korea 443-742

FCC CFR47 PART 22 SUBPART CERTIFICATION REPORT

Model Tested: SCH-N500
Additional Model: SCH-N501, SCH-N502
SCH-N503, SCH-N504
FCC ID (Requested): A3LSCHN500
Report No: FC-085-R1
Job No: FC-085
Date issued: June 22, 2005

- Abstract -

All measurement reported herein accordance with FCC Rules, 47CFR Part2, Part22.

Prepared By

Date 2005.06.22

YE PARK – Test Engineer

Checked By

Date 2005.06.22

SH PARK – Senior Manager

Authorized By

Date 2005.06.22

JK CHOI – General Manager

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MEASUREMENT REPORT

1. FCC Certification Information

The following information is in accordance with FCC Rules, 47 CFR Part2, Subpart J, Sections 2.1033 – 2.1055.

1.1 §2.1033 General Information

- Applicant Name: SAMSUNG ELECTRONICS CO., LTD.
- Address: 416 Maetan3-Dong, Yeongtong-Gu, Suwon City
Gyeonggi-Do, Korea 443-742

- Attention: SungJoo KIM, Engineering Manager (QA Lab)

- FCC ID: A3LSCHN500

- Additional Model: SCH-N501, SCH-N502, SCH-N503, SCH-N504
- Quantity: Quantity production is planned
- Emission Designators: 1M25F9W
- Tx Freq. Range: 824.70-848.31MHz
- Rx Freq. Range: 869.70-893.31 MHz
- Max. Power Rating: 0.242W ERP CDMA (23.83 dBm)
- FCC Classification(s): Licensed Portable Tx Held to Ear (PCE)
- Equipment (EUT) Type: Single-Mode Cellular Phone
- Modulation(s): CDMA
- Frequency Tolerance: $\pm 0.00025\%$ (2.5ppm)
- FCC Rule Part(s): §22(H), §2
- Dates of Test: June. 15, 17, 2005
- Place of Test: SAMSUNG Lab,
- Test Report S/N: FC-085-R1

2. INTRODUCTION

2.1 General

These measurement test were conducted at **SAMSUNG ELECTRONICS CO., LTD(SUWON)**.
The site address is 416 Maetan3-Dong, Yeongtong-gu,, Suwon City, Gyeonggi-Do, Korea 443-742
The site have 1 Fully-anechoic chamber and measurement facility.

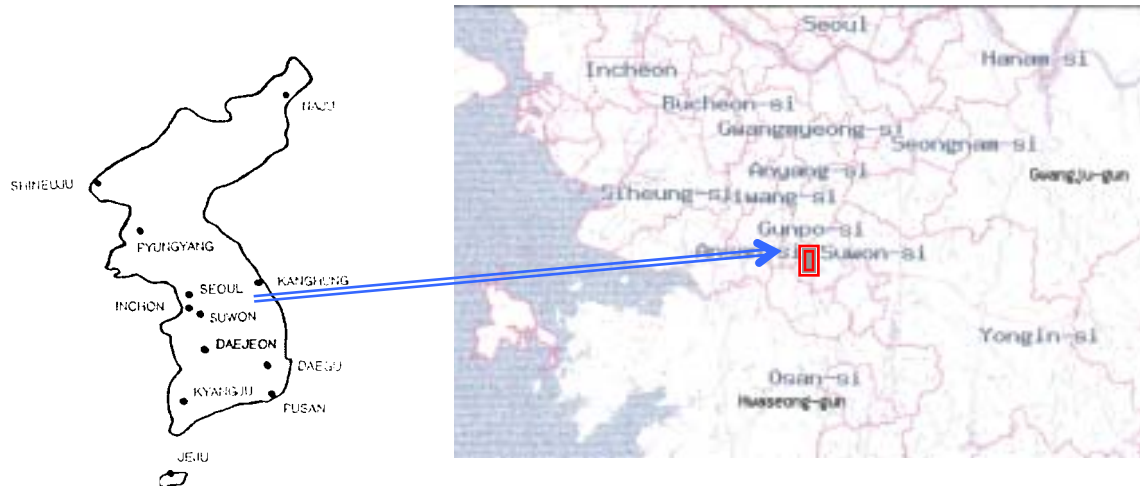


Figure1. Map of the Suwon City area.

Measurement Procedure

The radiated and spurious measurements were made Fully-anechoic chamber at a 3-meter test range (see Figure2). The equipment under testing was placed on a wooden turntable 3-meters from the receive antenna. The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. The substitution antenna will replace the EUT antenna it the same position and in vertical polarization. The frequency of the signal generator shall be set to the frequencies that were measured on the EUT. The test antenna shall be raised and lowered, if necessary, to ensure that the maximum signal is still being received. The signal generator, output level, shall be adjusted until an equal or a known related level to what was measured from the EUT is obtained in the spectrum analyzer. This level was recorded.

For readings above 1 GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic antenna are taken into consideration.

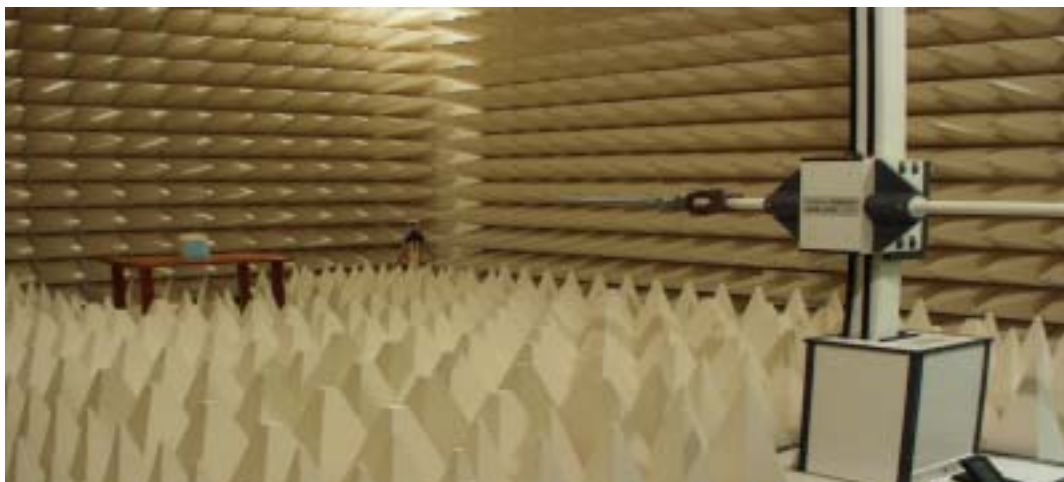


Figure2. Photograph of 3m Fully-Anechoic Chamber

3. 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.

- End of page -

4. TEST EQUIPMENT LIST

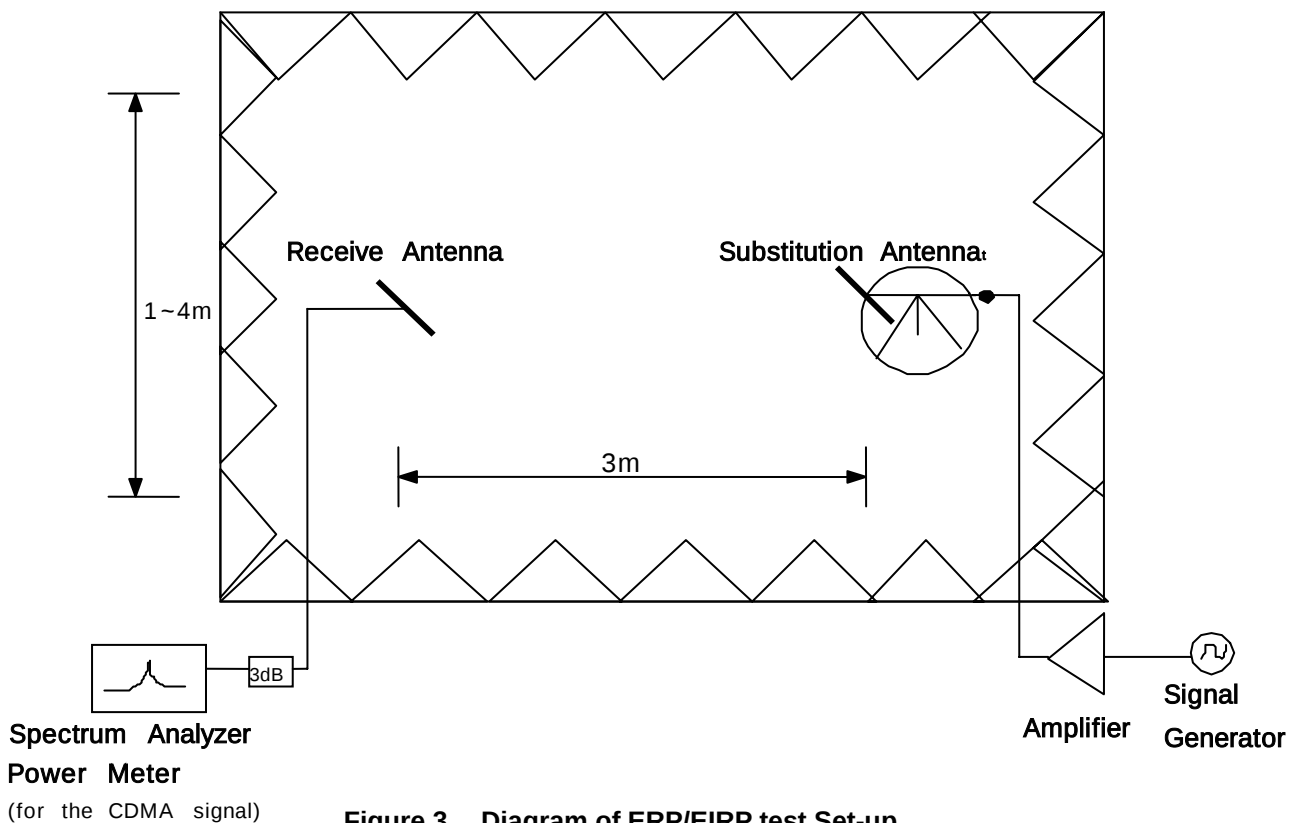
Name of Equipment	Model	Serial No.	Due Date
Spectrum Analyzer	ESI26	836119/010	2005-09-20
	E4440A(3Hz~26.5GHz)	MY41000236	2005-10-27
	E4440A(3Hz~26.5GHz)	MY41000233	2005-11-04
Signal Generator	SMIQ03B	83824/021	2005-12-27
	SMR20	835197/030	2006-01-18
Power Meter	E4419B	GB41293846	2005-09-21
Power Sensor	8481B	3318A10325	2005-10-06
	8485A	3318A19924	2005-09-20
Amplifier	5S1G4	304866	2005-10-19
Pre-Amplifier	8449B	3008A00691	2006-01-11
Communication test set	8960	GB42230535	2005-11-04
	8960	GB42360886	2005-10-27
Antenna Master	MA0001	ANT0967	Not Required
Controller	HD100	100/756	Not Required
Environmental Chamber	PL-4S	13005454	2005-07-31
	SH-241	92000548	2005-11-22
	SH-241	92000549	2005-11-22
Horn Antenna	HF906	360306/011	2006-03-17
Dipole Antenna	3121C-DB4	9007-587	2005-12-02
Receive Antenna	HL040	353255/019	2005-08-13
Attenuator	8494A	3308A31997	2006-01-03
	8496A	3308A14426	2006-01-04
Divider	11636B	51941	Not Required
	11636B	51942	Not Required
	11636B	51946	Not Required
High Pass Filter	WHK1.0/15G-10SS	1	Not Required
	WHK1.0/15G-10SS	1	Not Required
	WHK/3.5/18G-10SS	3	Not Required
	WHK/3.5/18G-10SS	4	Not Required
Shielded Fully Anechoic Chamber	RF0002	ANT0001	Not Required

5. DESCRIPTION OF TESTS

5.1 Effective Radiated Power

Test Set-up for the ERP/EIRP TEST

Effective Radiated Power Output and Equivalent Isotropic Radiated Power Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:



The EUT was placed on a Non-conducted turntable 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, an average detector is used, with RBW=VBW=3MHz, SPAN=10MHz. 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 dipole is measured. The ERP is recorded.

5.2 Radiated Spurious & Harmonic Emission

Test Set-up for the Radiated Emission TEST

Radiated Spurious Emission Measurements by Substitution Method according to
ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001

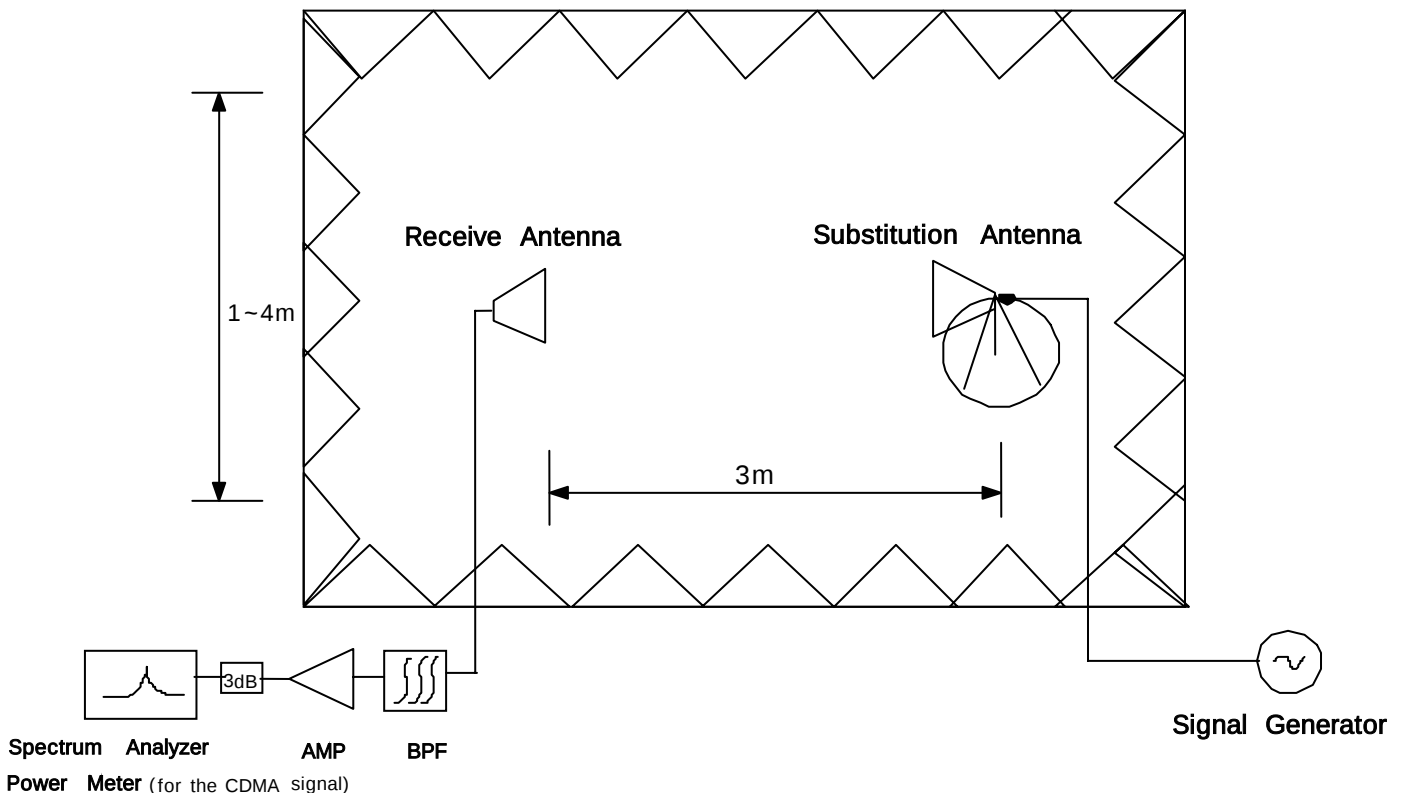


Figure 4. Diagram of Radiated Spurious & Harmonic test Set-up

The EUT was placed on a Non-conducted turntable 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. The Spectrum was investigated from 30MHz to the 10th Harmonic of the fundamental. A peak detector is used, with RBW=VBW=1MHz. The value that we could measure was only reported. 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. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.



SAMPLE CALCULATION

Example: Channel 363 CDMA Mode 2nd Harmonic(1671.78MHz)

The receive analyzer reading at 3meters with the EUT on the turntable was -81.0dBm . The gain of the substituted antenna is 8.1dBi . The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0dBm of the receive analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0dB at 1671.78MHz. So 6.1dB is added to the signal generator reading of -30.9dBm yielding -24.8dBm . The fundamental ERP was 25.5dBm so this harmonic was $25.5\text{dBm} - (-24.8) = 50.3\text{dBc}$.

- End of page -

5.3 Occupied Bandwidth

Test Procedure

The EUT was setup to maximum output power at its lowest channel. The occupied bandwidth was measured using a spectrum analyzer. The measurements are repeated for the highest and a middle channel. The EUT's occupied bandwidth is measured as the width of the signal between two points, one below the carrier center frequency and one above the carrier frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power. Plots of the EUT's occupied bandwidth are shown herein.

5.4 Spurious and Harmonic Emissions at Antenna Terminal

5.4.1 Occupied Bandwidth Emission Limits

- (a) 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.
- (b) Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1MHz 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 emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
- (c) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee's frequency block edges, both upper and lower, as the design permits.
- (d) The measurement of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.

BLOCK	Freq. Range (MHz) Transmitter (Tx)	Freq. Range (MHz) Receiver (Rx)
A	824 – 835	869 - 880
B	835 – 845	880 - 890
A'	845 – 846.5	890 – 891.5
B'	846.5 - 849	891.5 - 894

Table 1. CDMA Cellular Service Frequency Blocks

5.4.2 Conducted Spurious Emission

Minimum standard:

On any frequency outside a license frequency block, the power of any emission shall be attenuated below the transmitter power(P) by at least $43+10\log (P)$ dB. Limit equivalent to -13 dBm, calculation shown below.

$$43 + 10\log (0.242 \text{ W}) = 36.83 \text{ dB}$$
$$23.83\text{dBm} - 36.83\text{dB} = -13 \text{ dBm}$$

Test Procedure:

The EUT was setup to maximum output power at its lowest channel. The Resolution BW of the analyzer is set to 1% of the emission bandwidth to show compliance with the -13 dBm limit, in the 1MHz bands immediately outside and adjacent to the edge of the frequency block. The measurements are repeated for the EUT's highest channel. For the Out-of-Band measurements a 1MHz RBW was used to scan from 10MHz to 10GHz. 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.

Plots are shown herein.

- End of page -

5.5 Frequency Stability / Temperature Variation

The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is carried from -30°C to +60°C using an environmental chamber.
- b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% 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 shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ± 0.0001 (± 1 ppm) of the center frequency.

Time Period and Procedure:

1. The carrier frequency of the transmitter and the individual oscillators is measured at room temperature (25°C to 27°C to provide a reference).
2. The equipment is subjected to an overnight "soak" at -30°C without any power applied.
3. After the overnight "soak" at -30°C (Usually 14~16 hours), 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 and the individual oscillators is made within a three minute interval after applying to the transmitter.
4. Frequency measurements are made at 10°C interval up to room temperature. At least a period of one and one half-hour is provided to allow stabilization of the equipment at each temperature level.
5. Again the transmitter carrier frequency and the individual oscillators is measured at room temperature to begin measurement of the upper temperature levels.
6. Frequency measurements are at 10 intervals starting at -30°C up to +60°C allowing at least two hours at each temperature for stabilization. In all measurements the frequency is measured within three minutes after re-applying power to the transmitter.
7. The artificial load is mounted external to the temperature chamber.

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

- End of page -

6. TEST DATA

6.1 Effective Radiated Power(E.R.P.)

Supply Voltage : 3.7VDC

Modulation : CDMA

■ Reference level

Frequency (MHz)	Output (dBm)	Polarization	S/A (dBm)	Ant gain (dBd)	Ref level (dBm)
824.70	22.50	H	-16.06	0.00	-16.06
		V	-15.09	0.00	-15.09
835.89	24.00	H	-14.62	0.00	-14.62
		V	-13.59	0.00	-13.59
848.31	23.00	H	-15.58	0.00	-15.58
		V	-14.58	0.00	-14.58

■ Result

Frequency (MHz)	From EUT Tested level (dBm)	Polarization (H/V)	Azimuth (angle)	ERP (dBm)	ERP (W)	Battery
824.70	-16.11	H1	1	22.45	0.176	Standard
835.89	-14.79	H1	1	23.83	0.242	Standard
848.31	-15.35	H1	2	23.23	0.210	Standard

NOTE : Standard batteries are the only battery options for this phone

Radiated measurements at 3 meters by Substitution Method

6.2 Radiated Spurious & Harmonic measurement

Field Strength of SPURIOUS Radiation

Operating Frequency : 824.70 MHz(Low), 835.89MHz(Middle), 848.31MHz(High)

Measured Output Power : 23.83 dBm = 0.242 W

Modulation Signal : CDMA

Limit : $43 + 10\log_{10}(P) = 36.83$ dBc

■ Result

Channel	Harmonic	Frequency (MHz)	From EUT Tested level (dBm)	POL (H/V)	Result (dBc)
1013	2	1649.40	-51.86	H1	64.10
	3	2474.10	-55.99	H2	63.19
	4	3298.80	-66.73	V	69.79
	5	4123.50	-68.63	V	68.70
	6	4948.20	-	-	-
	7	5772.90	-	-	-
363	2	1671.78	-51.30	H1	62.79
	3	2507.67	-58.97	H2	65.48
	4	3343.56	-67.99	V	71.19
	5	4179.45	-68.33	V	68.30
	6	5015.34	-	-	-
	7	5851.23	-	-	-
777	2	1696.62	-53.09	H1	62.92
	3	2544.93	-61.89	H1	67.87
	4	3393.24	-67.53	V	71.47
	5	4241.55	-68.52	V	68.64
	6	5089.86	-	-	-
	7	5938.17	-	-	-

Radiated Spurious Emission measurements at 3 meters by Substitution Method

6.3 Radiated Spurious & Harmonic Conversion Table

Date : 2005 . 06 . 17 .

Test Engineer : WT JANG

Tx Cable loss
 Tx Horn Ant Gain
 Rx Cable loss + HPF Insertion loss + Attenuator
 Pre-Amp gain
 Air loss
 Tested Level from EUT
 = + + -
 = ERP +2.14-

CH	Har	Frequency (MHz)	Tx CL (dB)	Horn Gain (dB)	Tx Level @ (S/G 0dBm)	Tested Level EUT : H (dBm)	Tested Level EUT : V (dBm)	Amplitude of Emission EUT : H (dBm)	Amplitude of Emission EUT : V (dBm)	Result EUT : H (dBc)	Result EUT : V (dBc)
1013	2	1649.40	7.08	8.03	0.95	-51.86	-57.33	-38.13	-44.15	64.10	70.12
	3	2474.10	9.22	9.55	0.33	-55.99	-59.09	-37.22	-40.63	63.19	66.60
	4	3298.80	11.59	9.64	-1.95	-67.33	-66.73	-45.07	-43.82	71.04	69.79
	5	4123.50	13.25	10.67	-2.58	-68.52	-68.63	-43.10	-42.73	69.07	68.70
	6	4948.20	15.04	11.05	-3.99	-	-	-	-	-	-
	7	5772.90	16.65	11.23	-5.42	-	-	-	-	-	-
363	2	1671.78	7.22	8.03	0.81	-51.30	-56.69	-36.82	-42.91	62.79	68.88
	3	2507.67	9.46	9.55	0.09	-58.97	-60.42	-39.51	-41.13	65.48	67.10
	4	3343.56	11.74	9.64	-2.10	-67.13	-67.99	-45.23	-45.22	71.20	71.19
	5	4179.45	13.33	10.67	-2.66	-68.79	-68.33	-43.42	-42.33	69.39	68.30
	6	5015.34	15.29	11.05	-4.24	-	-	-	-	-	-
	7	5851.23	17.05	11.23	-5.82	-	-	-	-	-	-
777	2	1696.62	7.31	8.03	0.72	-53.09	-57.49	-36.95	-42.18	62.92	68.15
	3	2544.93	9.54	9.55	0.01	-61.89	-64.86	-41.90	-45.08	67.87	71.05
	4	3393.24	11.96	9.64	-2.32	-67.06	-67.53	-45.64	-45.50	71.61	71.47
	5	4241.55	13.47	10.67	-2.80	-68.76	-68.52	-44.11	-42.67	70.08	68.64
	6	5089.86	15.54	11.05	-4.49	-	-	-	-	-	-
	7	5938.17	17.71	11.23	-6.48	-	-	-	-	-	-

6.4 Frequency Stability

6.4.1 Frequency Stability Table

Operating Frequency : 835,890,000 Hz

Channel : 363

Reference Voltage : 3.7VDC

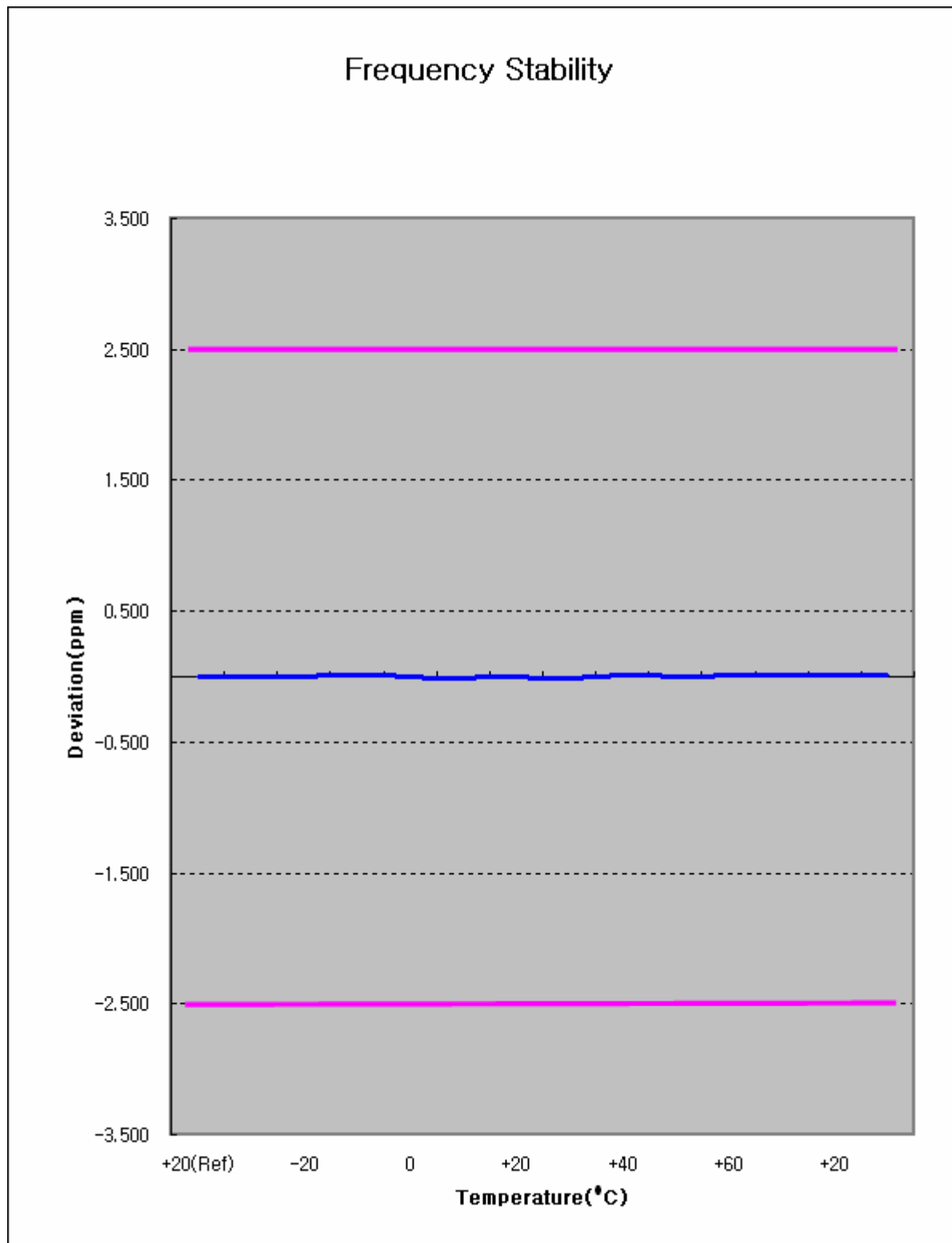
Deviation Limit : ± 0.00025 % or 2.5ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency Error (Hz)	Frequency (Hz)	Deviation (%)	ppm
100%	3.70	+20(Ref)	4.69	835,890,005	0.000001	0.006
100%		-30	3.76	835,890,004	0.000000	0.004
100%		-20	5.08	835,890,005	0.000001	0.006
100%		-10	6.54	835,890,007	0.000001	0.008
100%		0	-5.02	835,889,995	-0.000001	-0.006
100%		+10	-7.88	835,889,992	-0.000001	-0.009
100%		+20	4.69	835,890,005	0.000001	0.006
100%		+30	-6.46	835,889,994	-0.000001	-0.008
100%		+40	5.73	835,890,006	0.000001	0.007
100%		+50	4.76	835,890,005	0.000001	0.006
100%		+60	6.83	835,890,007	0.000001	0.008
85%	3.30	+20	5.87	835,890,006	0.000001	0.007
115%	4.26	+20	6.08	835,890,006	0.000001	0.007
Batt.Endpoint	3.30	+20	5.87	835,890,006	0.000001	0.007

Note : The temperature is varied from -30 °C to +60 °C using an environmental chamber.

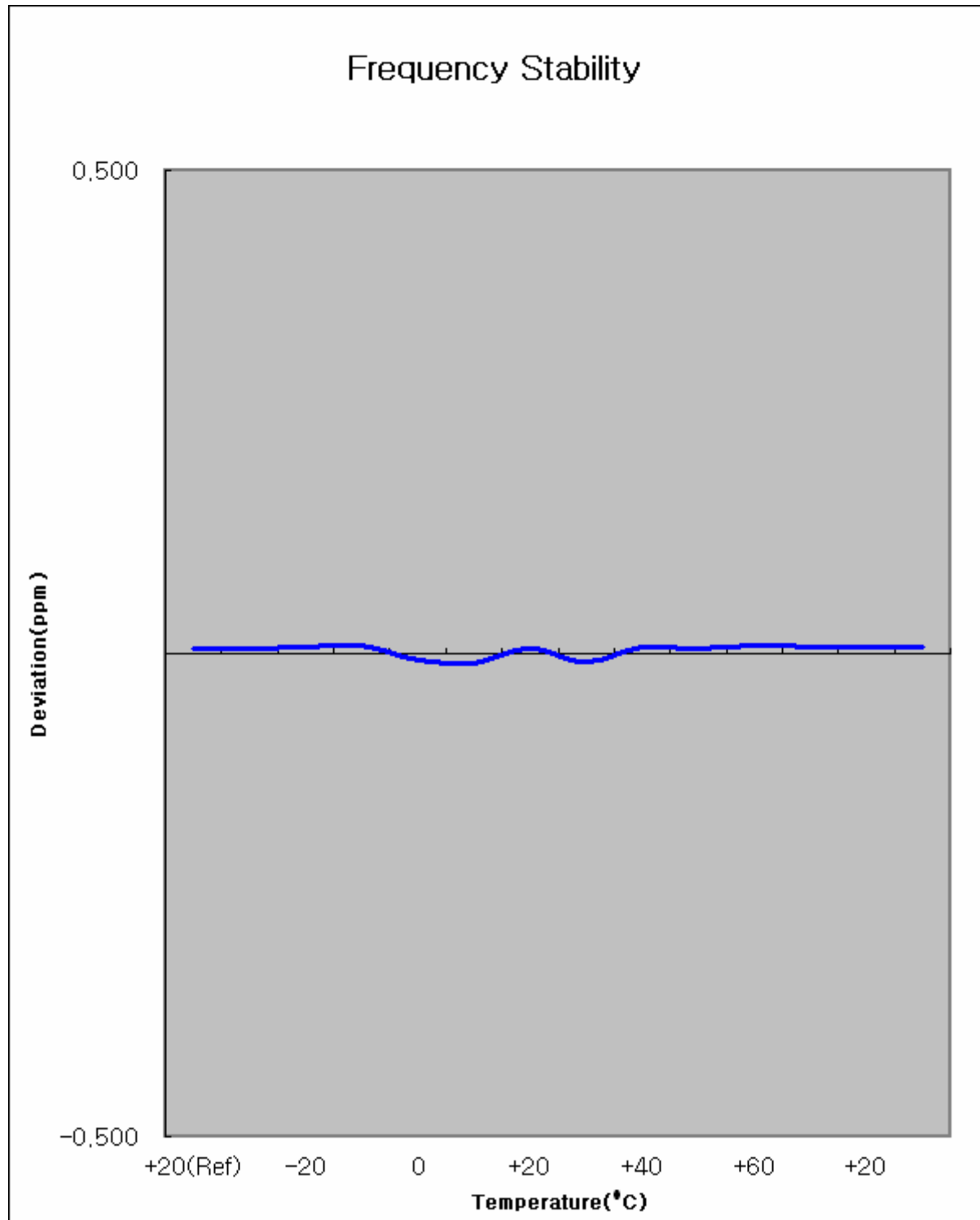
The EUT is tested down to the battery end point

6.4.2 Frequency Stability Graph



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Zoom In



- End of page -

7. SAMPLE CALCULATION

7.1 Emission Designator

Emission Designator = 1M25F9W

Calculation : 2M + 2DK

CDMA BW = 1.25MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination(Audio/Data)

(Measured at the 99.75% power bandwidth)

- End of page -



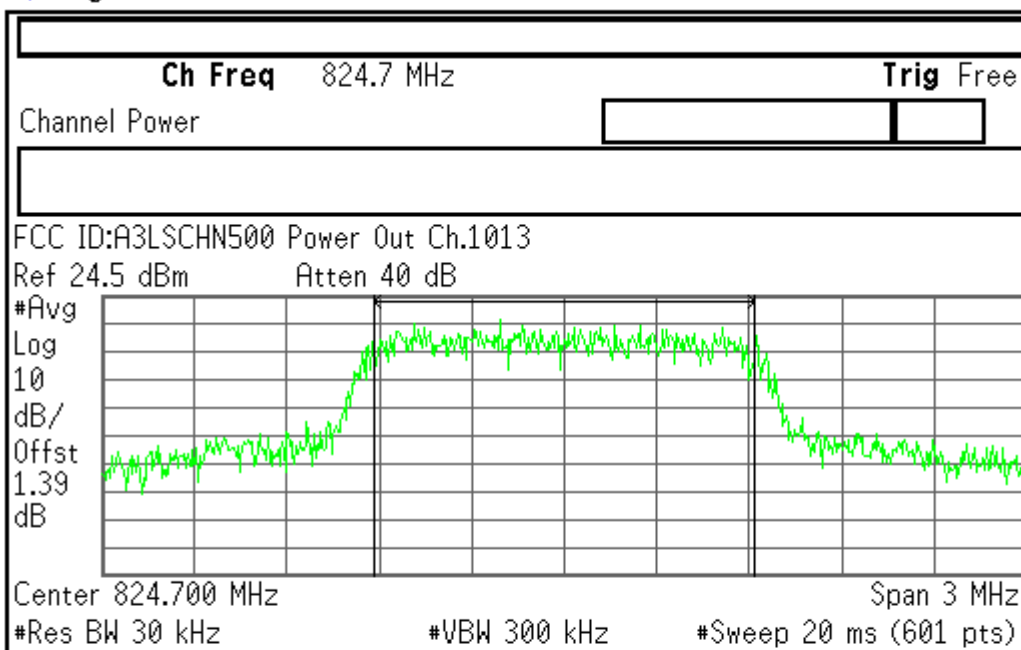
8. CONCLUSION

The data collected shows that the SAMSUNG Single-Mode Cellular Phone.
FCC ID : A3LSCHN500 complies with all the requirements of Parts 2,22 of the FCC Rules.

- End of page -

9. TEST PLOTS

- End of page -



Freq/Channel

Center Freq
824.700000 MHz

Start Freq
823.200000 MHz

Stop Freq
826.200000 MHz

CF Step
300.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

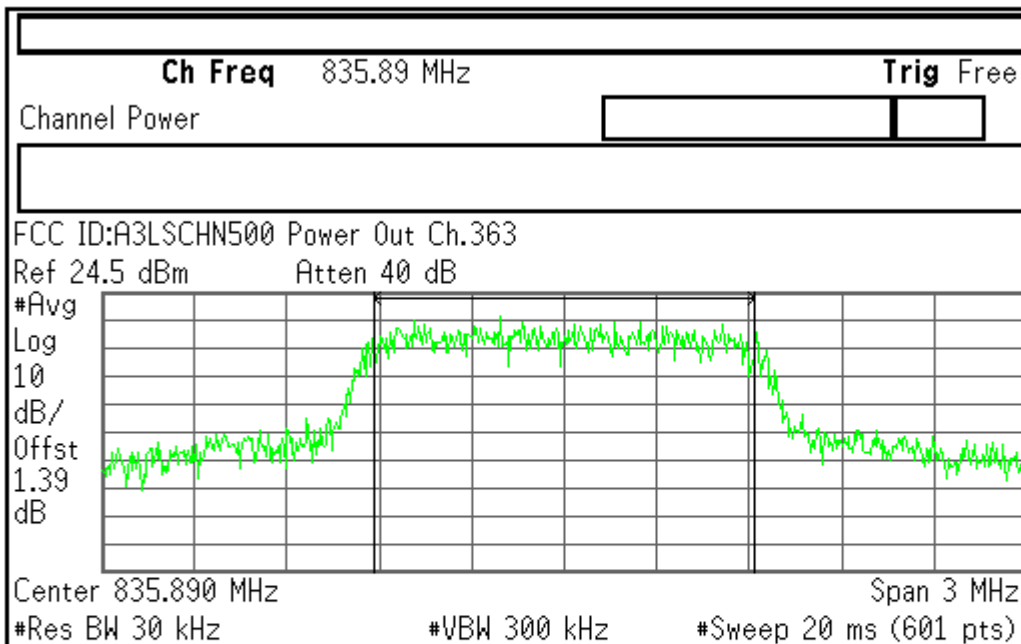
Channel Power

24.51 dBm /1.2300 MHz

Power Spectral Density

-36.39 dBm/Hz

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Freq/Channel

Center Freq
835.890000 MHz

Start Freq
834.390000 MHz

Stop Freq
837.390000 MHz

CF Step
300.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

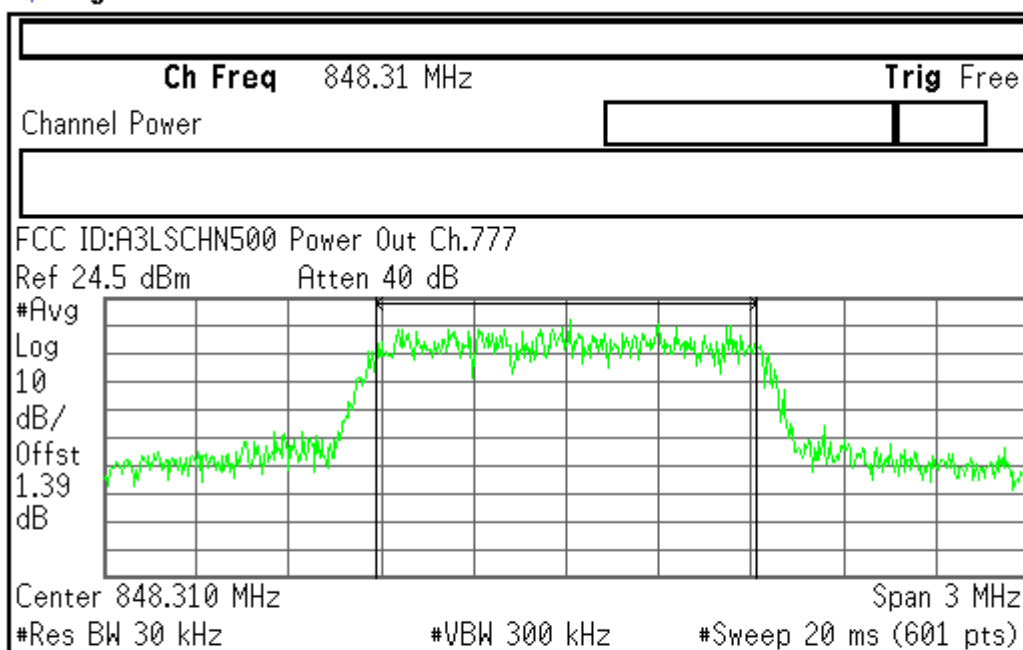
Channel Power

24.51 dBm /1.2300 MHz

Power Spectral Density

-36.39 dBm/Hz

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Channel Power

24.50 dBm /1.2300 MHz

Power Spectral Density

-36.40 dBm/Hz

Freq/Channel

Center Freq
848.310000 MHz

Start Freq
846.810000 MHz

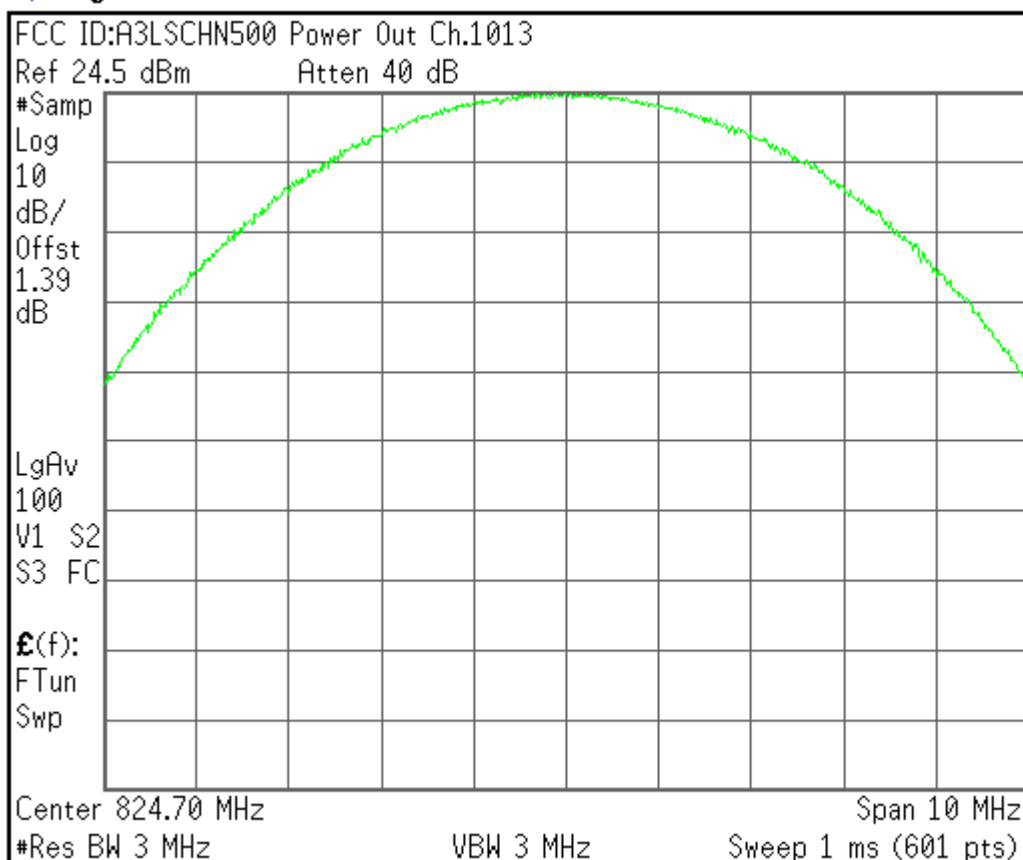
Stop Freq
849.810000 MHz

CF Step
300.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

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Freq/Channel

Center Freq
824.700000 MHz

Start Freq
819.700000 MHz

Stop Freq
829.700000 MHz

CF Step
1.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Copyright 2000-2004 Agilent Technologies

FCC ID:A3LSCHN500 Power Out Ch.363

Ref 24.5 dBm Atten 40 dB

#Samp

Log

10

dB/

Offst

1.39

dB

LgAv

100

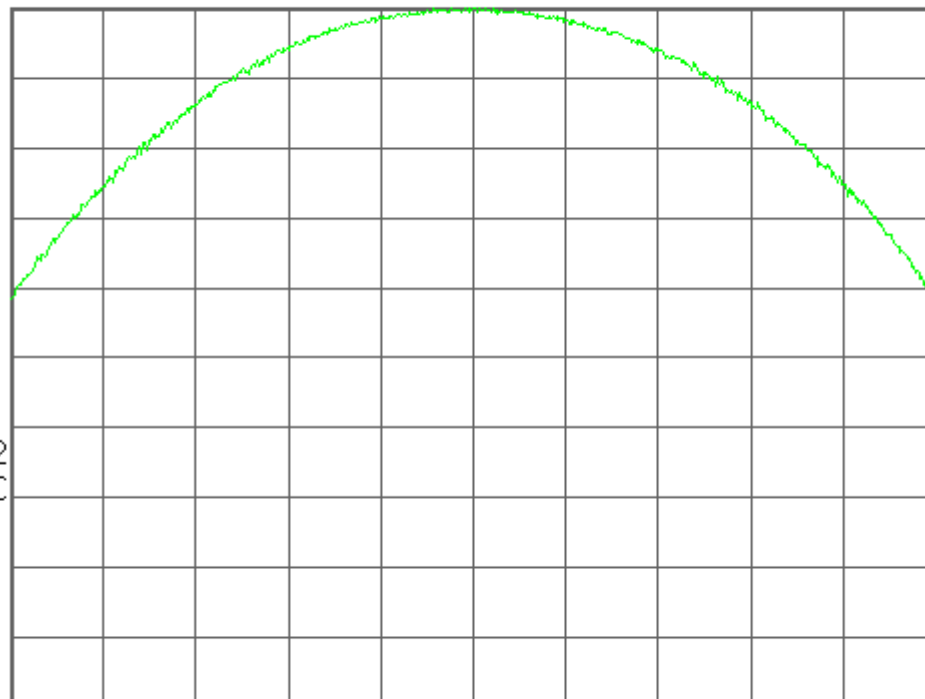
V1 S2

S3 FC

$\mathcal{E}(f)$:

FTun

Swp



Center 835.89 MHz

Span 10 MHz

#Res BW 3 MHz

VBW 3 MHz

Sweep 1 ms (601 pts)

Freq/Channel

Center Freq

835.890000 MHz

Start Freq

830.890000 MHz

Stop Freq

840.890000 MHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Copyright 2000-2004 Agilent Technologies

FCC ID:A3LSCHN500 Power Out Ch.777

Ref 24.5 dBm Atten 40 dB

#Samp

Log

10

dB/

Offst

1.39

dB

LgAv

100

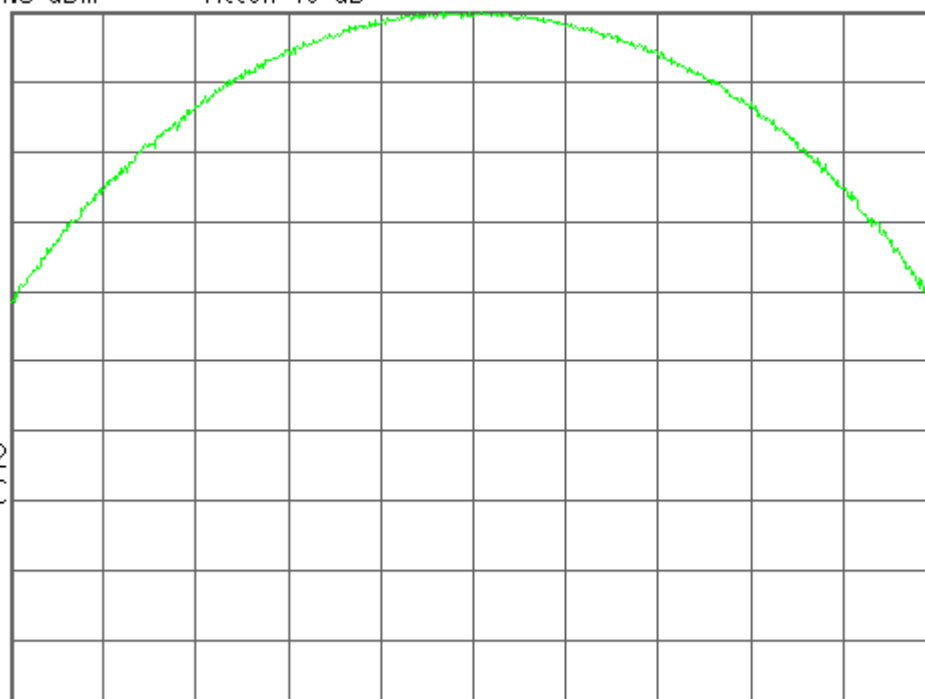
V1 S2

S3 FC

$\mathcal{E}(f)$:

FTun

Swp



Center 848.31 MHz

Span 10 MHz

#Res BW 3 MHz

VBW 3 MHz

Sweep 1 ms (601 pts)

Freq/Channel

Center Freq

848.310000 MHz

Start Freq

843.310000 MHz

Stop Freq

853.310000 MHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

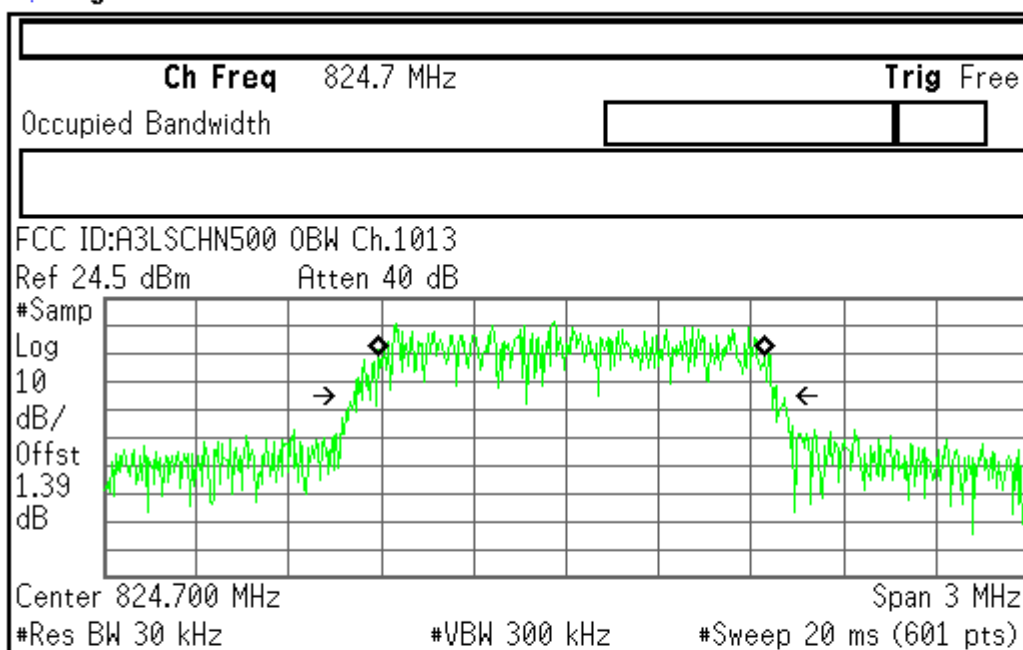
0.00000000 Hz

Signal Track

On

Off

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Occupied Bandwidth **Occ BW % Pwr** 99.00 %
1.2557 MHz **x dB** -26.00 dB

Transmit Freq Error 17.241 kHz
x dB Bandwidth 1.372 MHz*

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Freq/Channel

Center Freq
824.700000 MHz

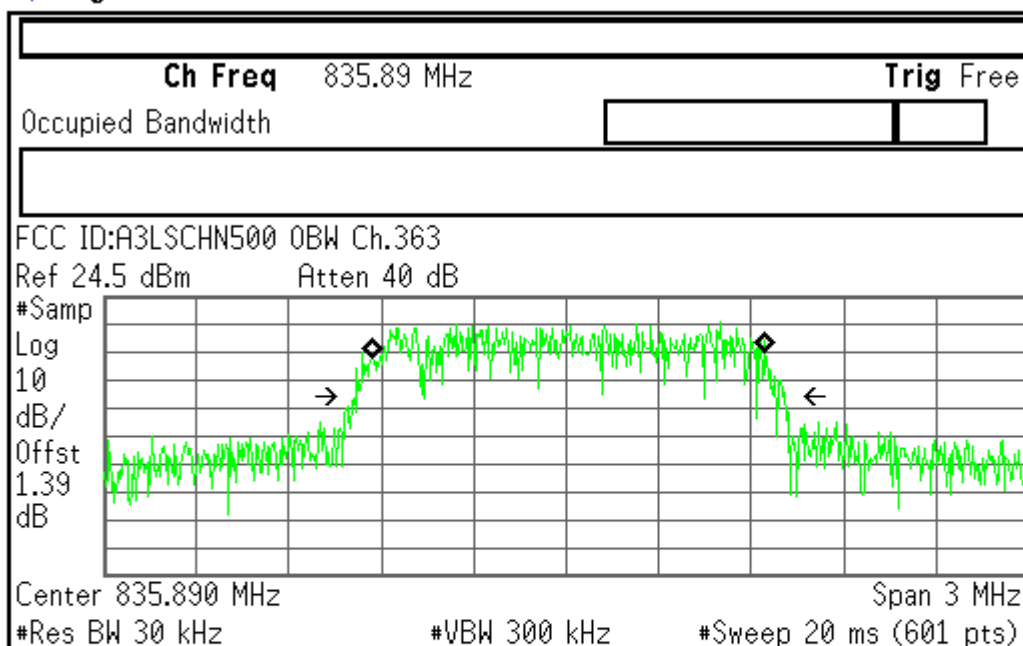
Start Freq
823.200000 MHz

Stop Freq
826.200000 MHz

CF Step
300.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off



Occupied Bandwidth **Occ BW % Pwr** 99.00 %
1.2702 MHz **x dB** -26.00 dB

Transmit Freq Error 3.486 kHz
x dB Bandwidth 1.396 MHz*

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Freq/Channel

Center Freq
835.890000 MHz

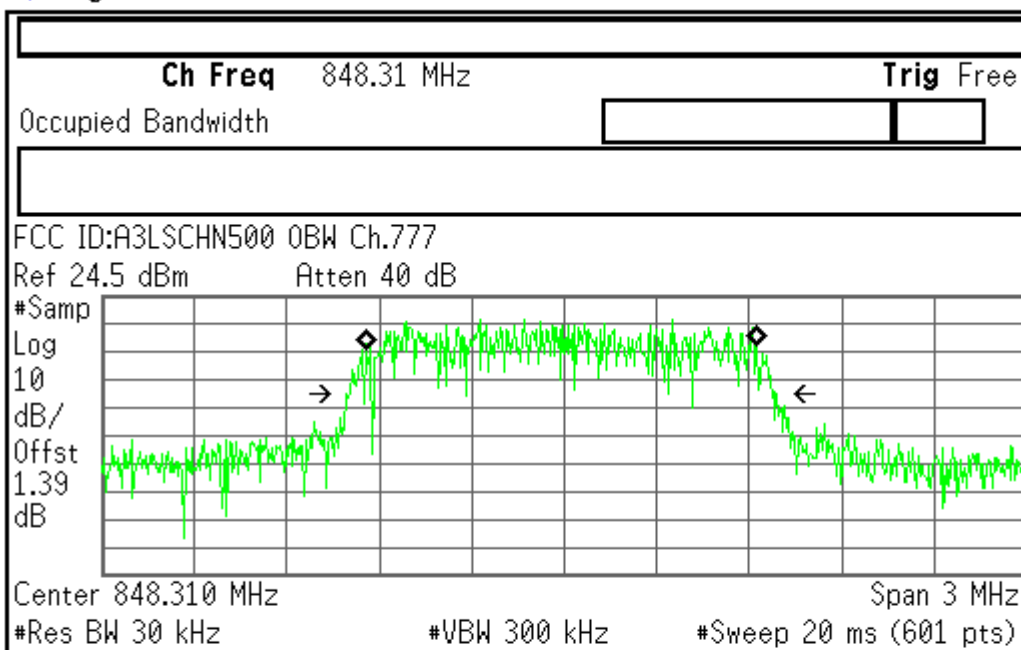
Start Freq
834.390000 MHz

Stop Freq
837.390000 MHz

CF Step
300.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off



Occupied Bandwidth
1.2705 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -10.160 kHz
x dB Bandwidth 1.375 MHz*

Freq/Channel

Center Freq
848.310000 MHz

Start Freq
846.810000 MHz

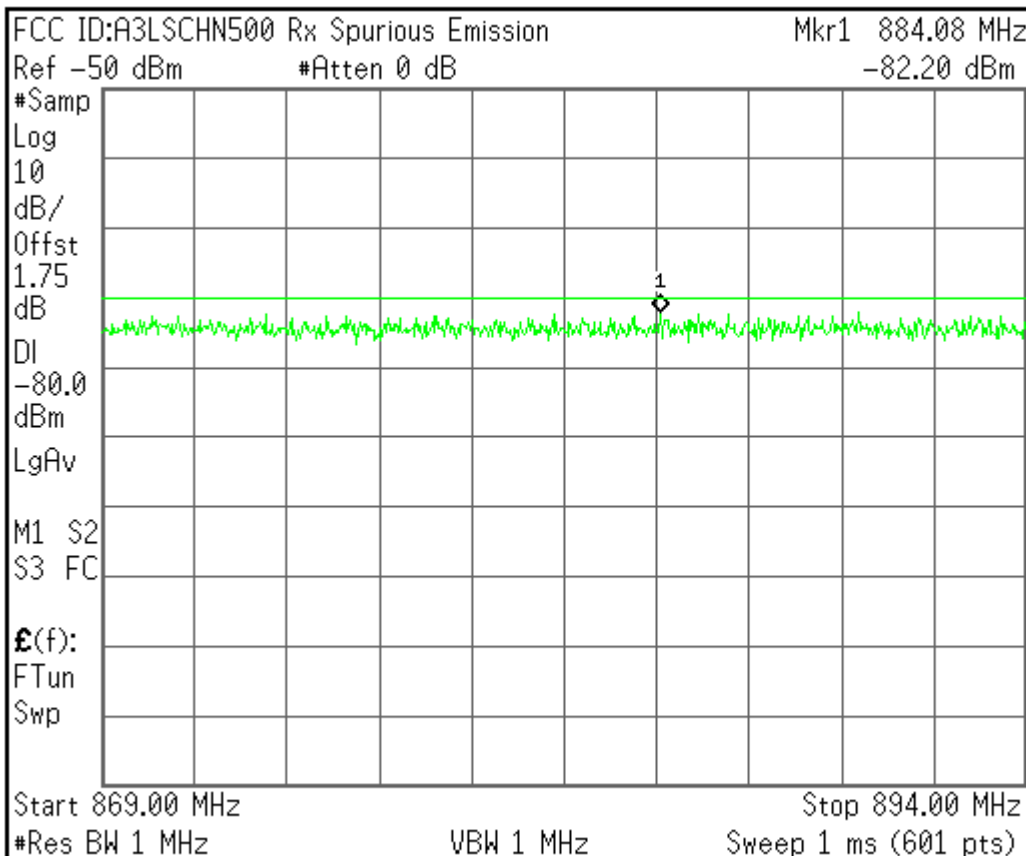
Stop Freq
849.810000 MHz

CF Step
300.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

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Freq/Channel

Center Freq
881.500000 MHz

Start Freq
869.000000 MHz

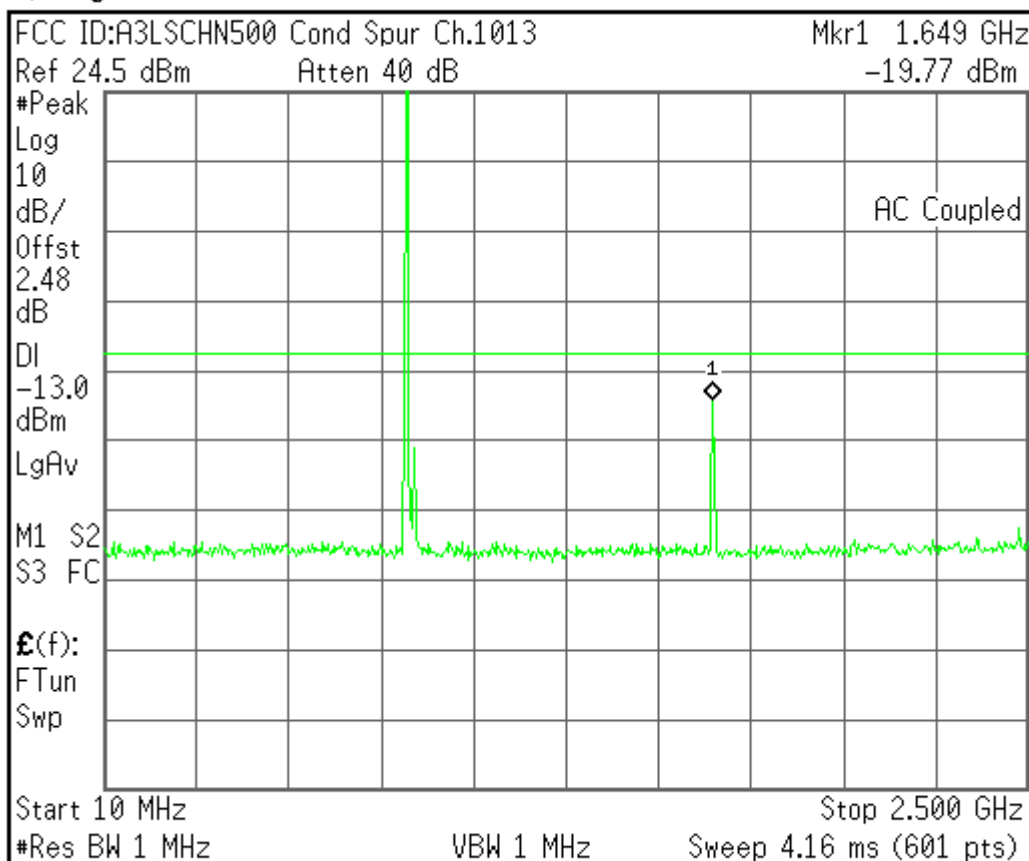
Stop Freq
894.000000 MHz

CF Step
2.50000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

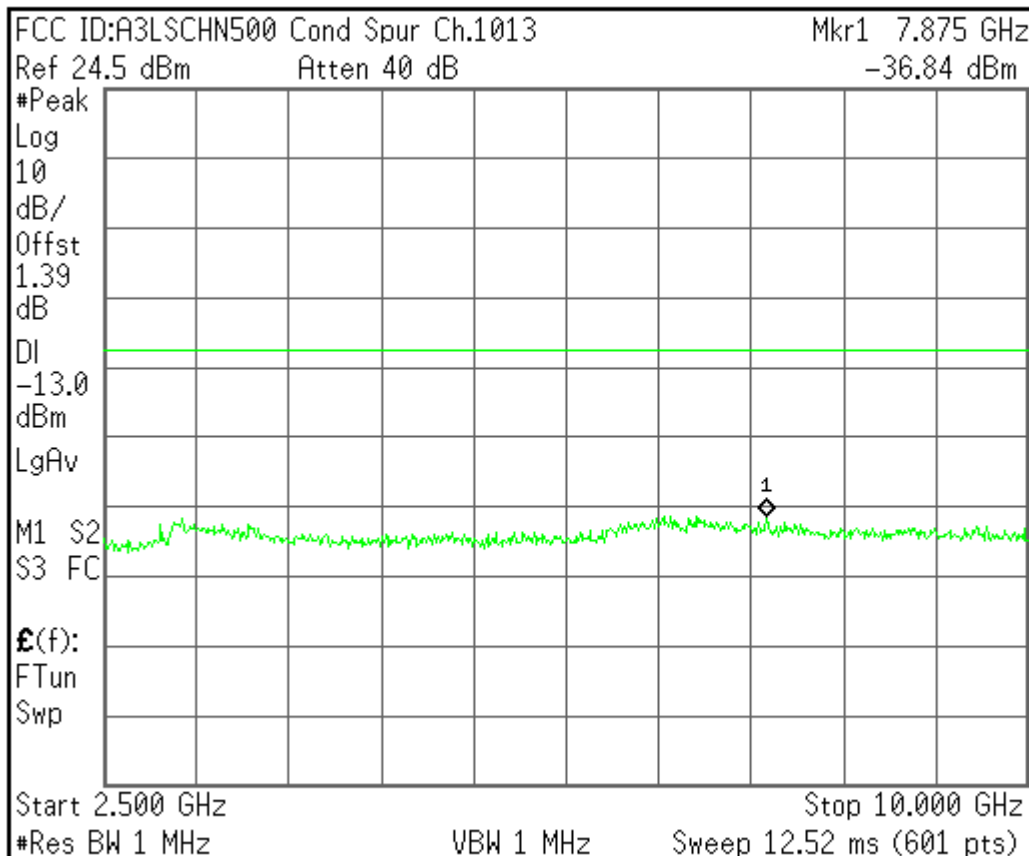
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Freq/Channel

Center Freq
1.25500000 GHzStart Freq
10.0000000 MHzStop Freq
2.50000000 GHzCF Step
249.000000 MHz
Auto ManFreq Offset
0.00000000 HzSignal Track
On Off

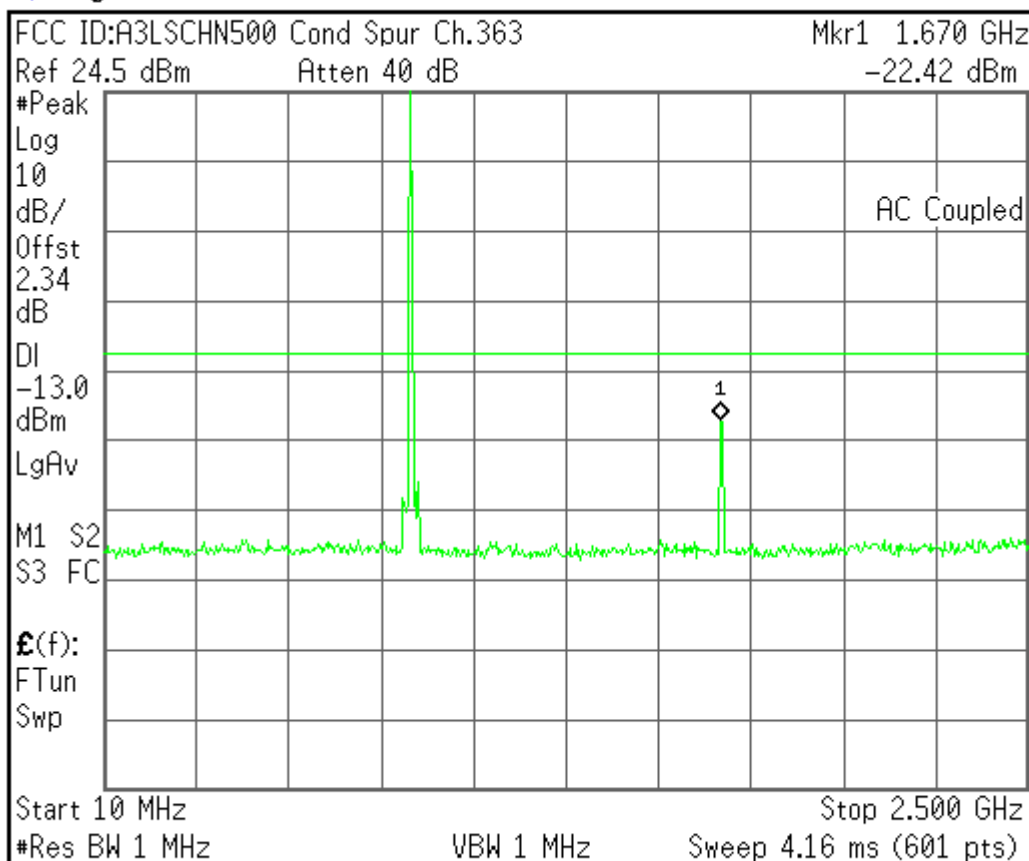
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Freq/Channel

Center Freq
6.25000000 GHzStart Freq
2.50000000 GHzStop Freq
10.0000000 GHzCF Step
750.000000 MHz
Auto ManFreq Offset
0.00000000 HzSignal Track
On Off

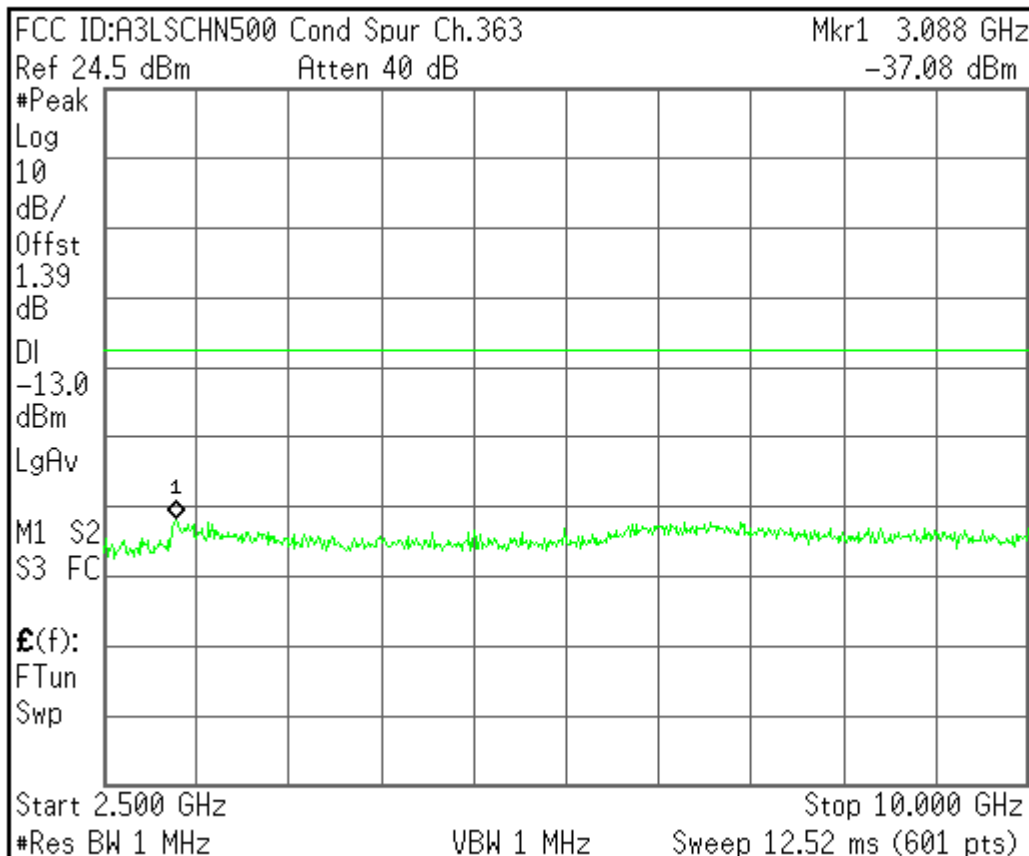
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Freq/Channel

Center Freq
1.25500000 GHzStart Freq
10.0000000 MHzStop Freq
2.50000000 GHzCF Step
249.000000 MHz
Auto ManFreq Offset
0.00000000 HzSignal Track
On Off

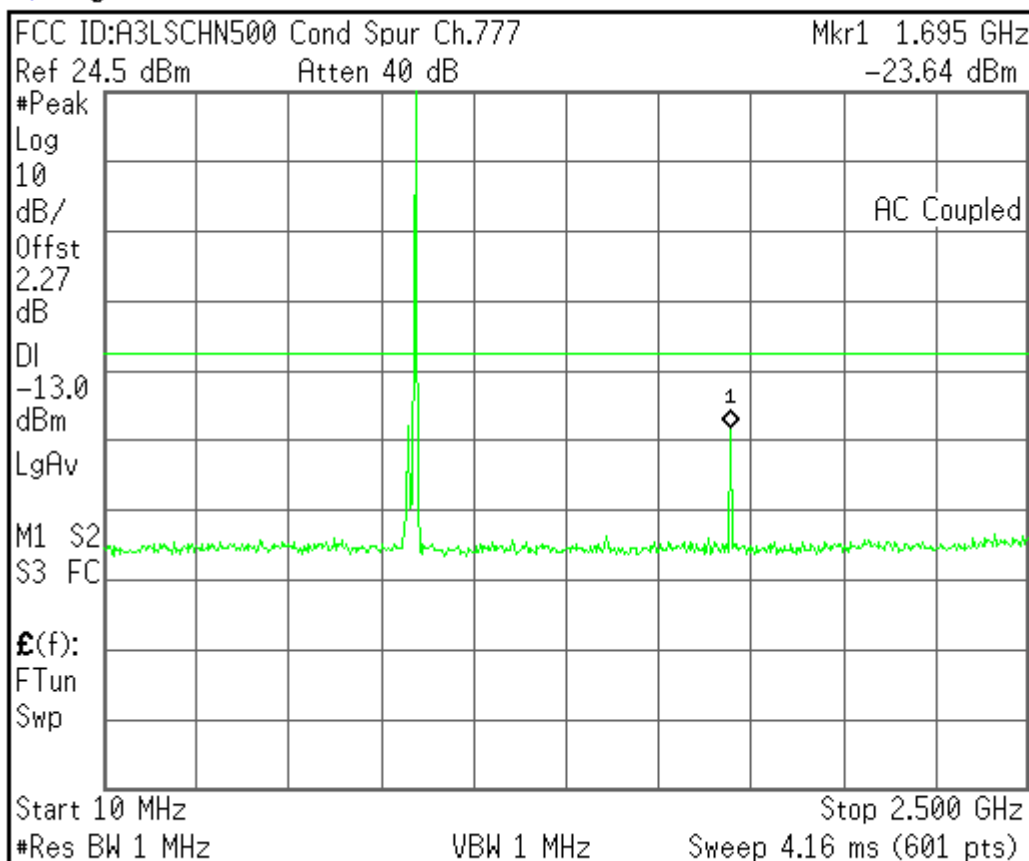
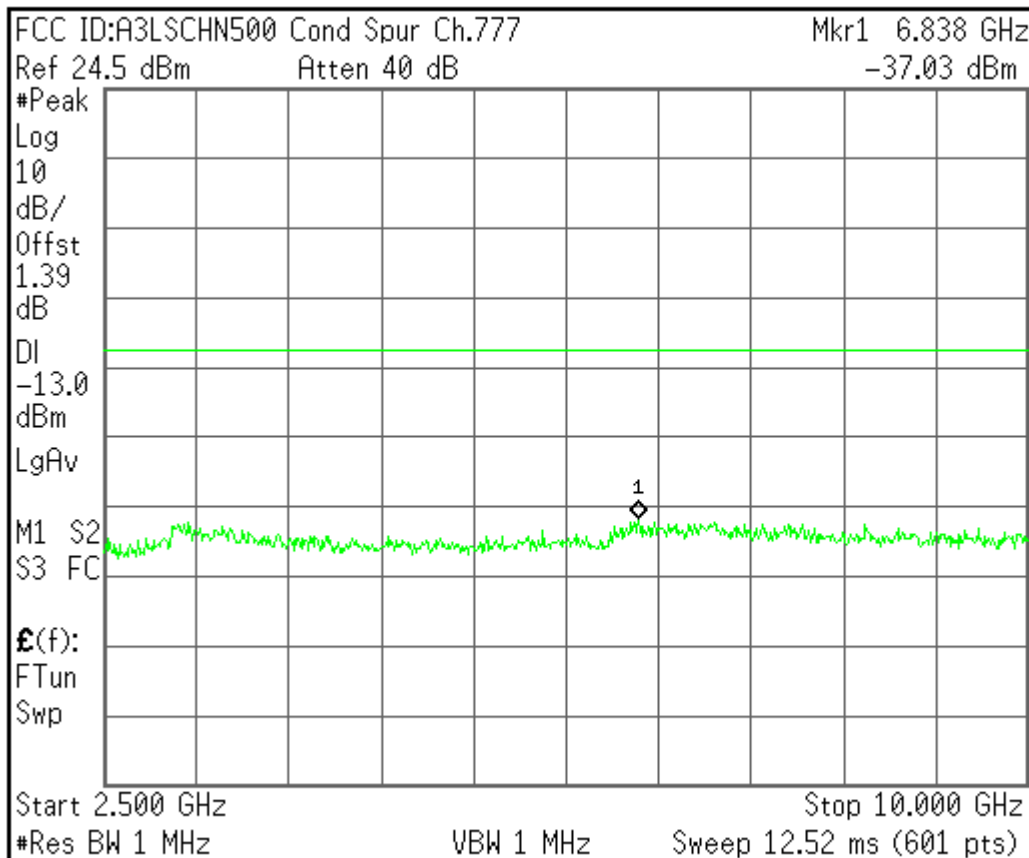
Copyright 2000-2004 Agilent Technologies



Freq/Channel

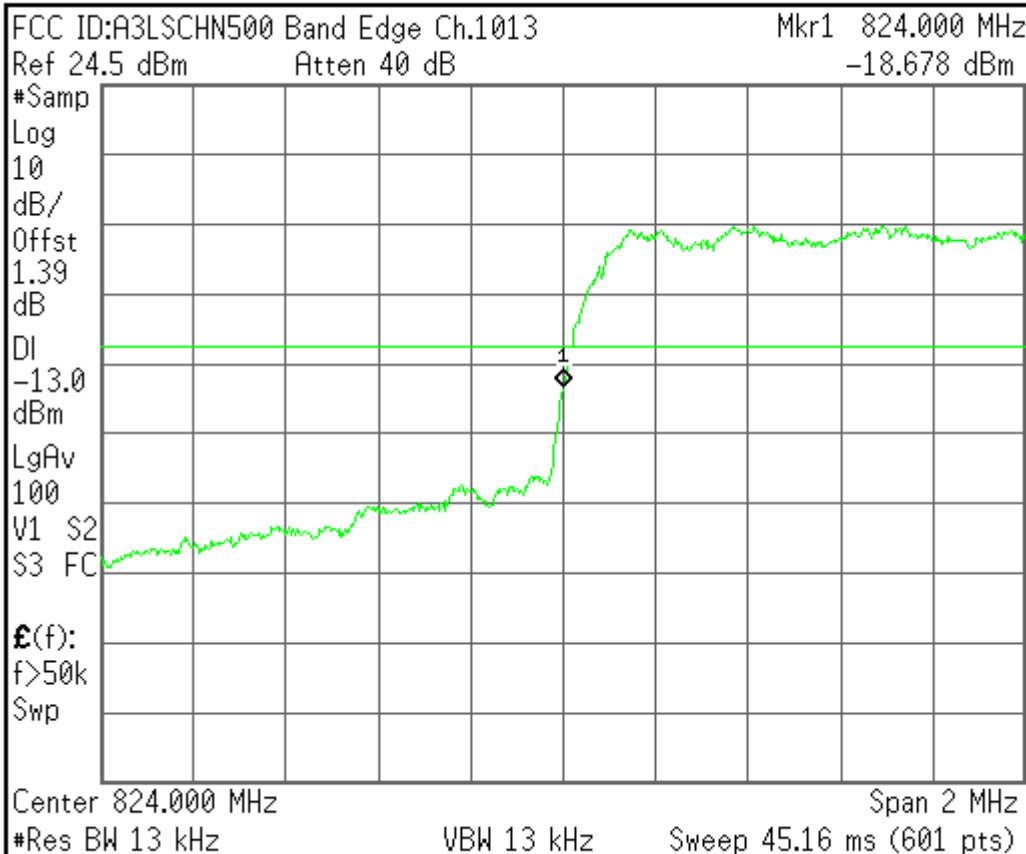
Center Freq
6.25000000 GHzStart Freq
2.50000000 GHzStop Freq
10.0000000 GHzCF Step
750.000000 MHz
Auto ManFreq Offset
0.00000000 HzSignal Track
On Off

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**Freq/Channel****Center Freq**
1.25500000 GHz**Start Freq**
10.0000000 MHz**Stop Freq**
2.50000000 GHz**CF Step**
249.000000 MHz
Auto Man**Freq Offset**
0.00000000 Hz**Signal Track**
On Off**Copyright 2000-2004 Agilent Technologies****Freq/Channel****Center Freq**
6.25000000 GHz**Start Freq**
2.50000000 GHz**Stop Freq**
10.0000000 GHz**CF Step**
750.000000 MHz
Auto Man**Freq Offset**
0.00000000 Hz**Signal Track**
On Off**Copyright 2000-2004 Agilent Technologies**



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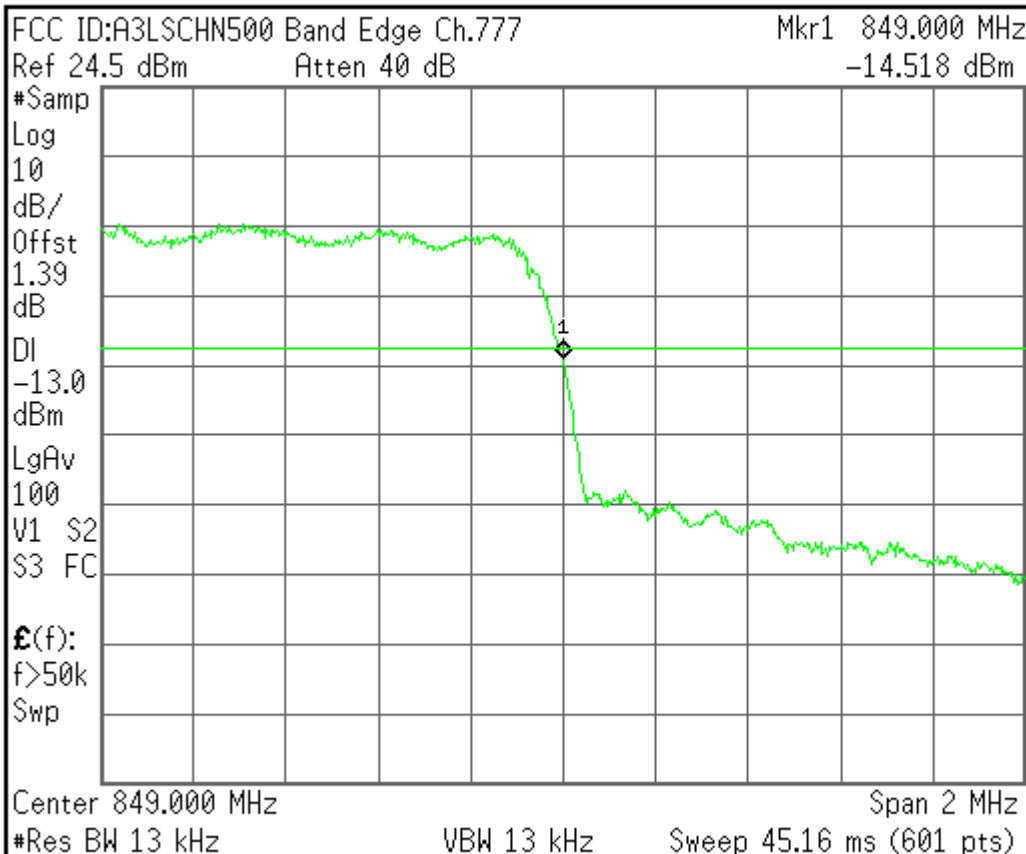
Freq/Channel

Center Freq
824.000000 MHzStart Freq
823.000000 MHzStop Freq
825.000000 MHzCF Step
200.000000 kHz
Auto ManFreq Offset
0.00000000 HzSignal Track
On Off

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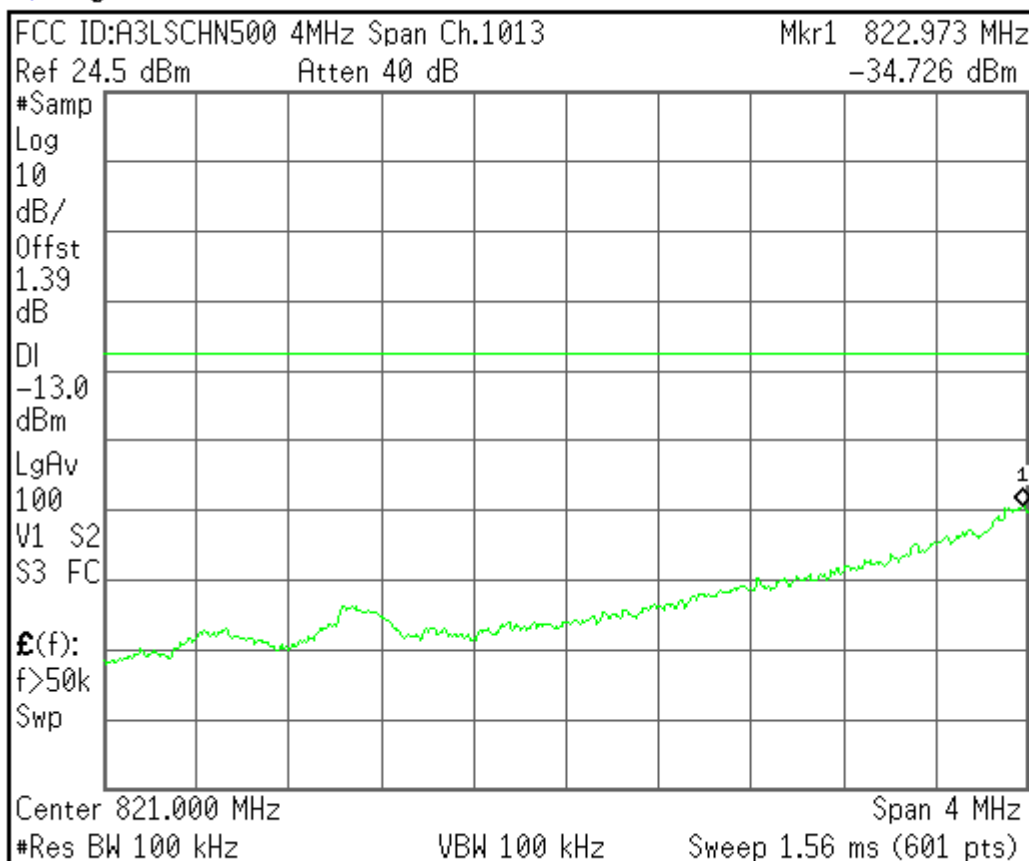
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Freq/Channel

Center Freq
849.000000 MHzStart Freq
848.000000 MHzStop Freq
850.000000 MHzCF Step
200.000000 kHz
Auto ManFreq Offset
0.00000000 HzSignal Track
On Off

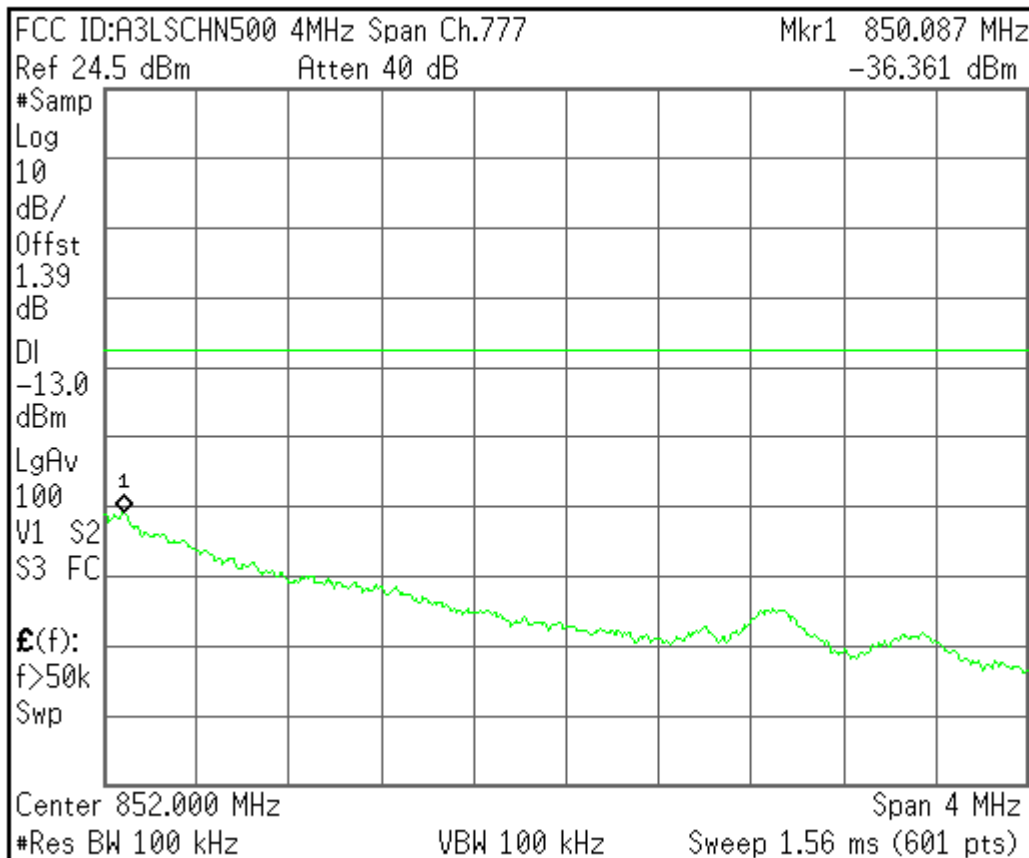
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Freq/Channel

Center Freq
821.000000 MHzStart Freq
819.000000 MHzStop Freq
823.000000 MHzCF Step
400.000000 kHz
Auto ManFreq Offset
0.00000000 HzSignal Track
On Off

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Freq/Channel

Center Freq
852.000000 MHzStart Freq
850.000000 MHzStop Freq
854.000000 MHzCF Step
400.000000 kHz
Auto ManFreq Offset
0.00000000 HzSignal Track
On Off

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