



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-B619
FCC ID (Requested):	A3LSCHB619
Report No:	FG-211-R1
Job No:	FG-211
Date issued:	July 21, 2009

- Abstract -

All measurement reported here in accordance with FCC Rules, 47CFR
Part2, Part22

Prepared By

KJ KWON - Test Engineer

Authorized By

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MEASUREMENT REPORT

1. FCC Certification Information

The following information is in accordance with FCC Rules, 47CFR 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
- FCC ID: A3LSCHB619
- Model: SCH-B619
- Quantity: Quantity production is planned
- Emission Designators: 1M26F9W(CDMA)
- Tx Freq. Range: 824.70-848.31MHz (CDMA)
- Rx Freq. Range: 869.70-893.31MHz (CDMA)
- Max. Power Rating: 0.116 W ERP CDMA (20.66 dBm)
- FCC Classification(s): Licensed Non-Broadcast Transmitter Held to Ear(TNE)
- Equipment (EUT) Type: Cellular CDMA Phone.
- Modulation(s): CDMA
- Frequency Tolerance: $\pm 0.00025\%$ (2.5ppm)
- FCC Rule Part(s): §2(H), §.
- Dates of Test: July 15-16, 2009
- Place of Test: SAMSUNG Lab,
- Test Report S/N: FG-211-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 the rotating device at the same height and at a distance of 3-meters from the receive antenna. The rotating device which can rotate horizontal axis was mounted on the turn unit to facilitate rotation around a vertical axis. The measurement was made for each horizontal/vertical position combination with receive antenna horizontally polarized. This measurement was repeated with receive antenna vertically polarized. 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 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	2009-10-21
	E4440A(3Hz~26.5GHz)	MY46187454	2010-03-06
	E4440A(3Hz~26.5GHz)	MY41000236	2010-04-14
Network Analyzer	8753E	JP38160590	2010-06-19
Pre-Amplifier	8449B	3008A00691	2009-12-15
Communication test set	8960	MY47510060	2010-03-06
	8960	GB42230535	2009-12-18
Controller	CO2000	CO2000/424	Not Required
Turn Unit	CT0800	CT0800/057	Not Required
Rotating Device	DE3600-RH-PR	DE3600-RH-PR/050	Not Required
Antenna Master	MA4000	MA4000/204	Not Required
Horn Antenna	HF906	100134	2009-10-24
	HF906	360306/011	2010-06-13
	BBHA9120	9120D-637	2009-10-24
Dipole Antenna	UHA 9105	9105-2412	2009-11-07
	UHA 9105	9105-2413	2010-06-13
Power Supply	E3640A	MY40003594	2010-06-19
	E3640A	MY40003595	2010-06-19
	E3632A	MY40022438	2010-03-06
Divider	11636B	51946	Not Required
	11636B	56913	Not Required
	11636B	56918	Not Required
High Pass Filter	WHK/3.0/18G-10SS	492	Not Required
	WHK/3.5/18G-10SS	4	Not Required
Environmental Chamber	SH-241	92000549	2009-11-14
	SH-241	92000548	2009-11-14
Shielded Fully Anechoic Chamber	CHAMBER	ANT0001	Not Required

5. DESCRIPTION OF TESTS

5.1 Output Power Variation

Test Condition to measure the Output Power

This device was tested under all R.C.s and S.O.s and worst case is reported with RC3/SO55, with “All Up” power control bits.

The following procedures were followed according to FCC “SAR Measurement Procedures for 3G Devices”.

1. If the mobile station (MS) supports Reverse TCH RC 1 and Forward TCH RC 1, set up a call using Fundamental Channel Test Mode 1 (RC=1/1) with 9600 bps data rate only.
2. Under RC1, C.S0011 Table 4.4.5.2-1, Table 5-1 parameters were applied.
3. If the MS supports the RC 3 Reverse FCH, RC3 Reverse SCH0 and demodulation of RC 3,4 or 5, set up a call using Supplemental Channel Test Mode 3 (RC 3/3) with 9600 bps Fundamental Channel and 9600 bps SCH0 data rate.
4. Under RC3, C.S0011 Table 4.4.5.2-2, Table 5-2 was applied.
5. FCHs were configured at full rate for maximum SAR with “All Up” power control bits.

Parameter	Units	Value
$\hat{I}_{or}$	dBm/1.23MHz	-104
Pilot Ec/Ior	dB	-7
Traffic Ec/Ior	dB	-7.4

Table 5-1
Parameters for Max. Power for RC1

Parameter	Units	Value
$\hat{I}_{or}$	dBm/1.23MHz	-86
Pilot Ec/Ior	dB	-7
Traffic Ec/Ior	dB	-7.4

Table 5-2
Parameters for Max. Power for RC1

Band	Channel	CDMA2000 RC	SO2	SO55
Cellular	1013	RC1	24.78	24.80
		RC3	24.71	24.81
	384	RC1	24.97	24.98
		RC3	24.93	24.92
	777	RC1	24.94	24.93
		RC3	24.80	24.93

Table 5-3
Maximum Power Output Table for SCH-B619

5.2 Effective Radiated Power / Equivalent Isotropic Radiated Power

Test Set-up for the ERP/EIRP TEST

Effective Radiated Power Output and Equivalent Isotropic Radiated Power output Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004

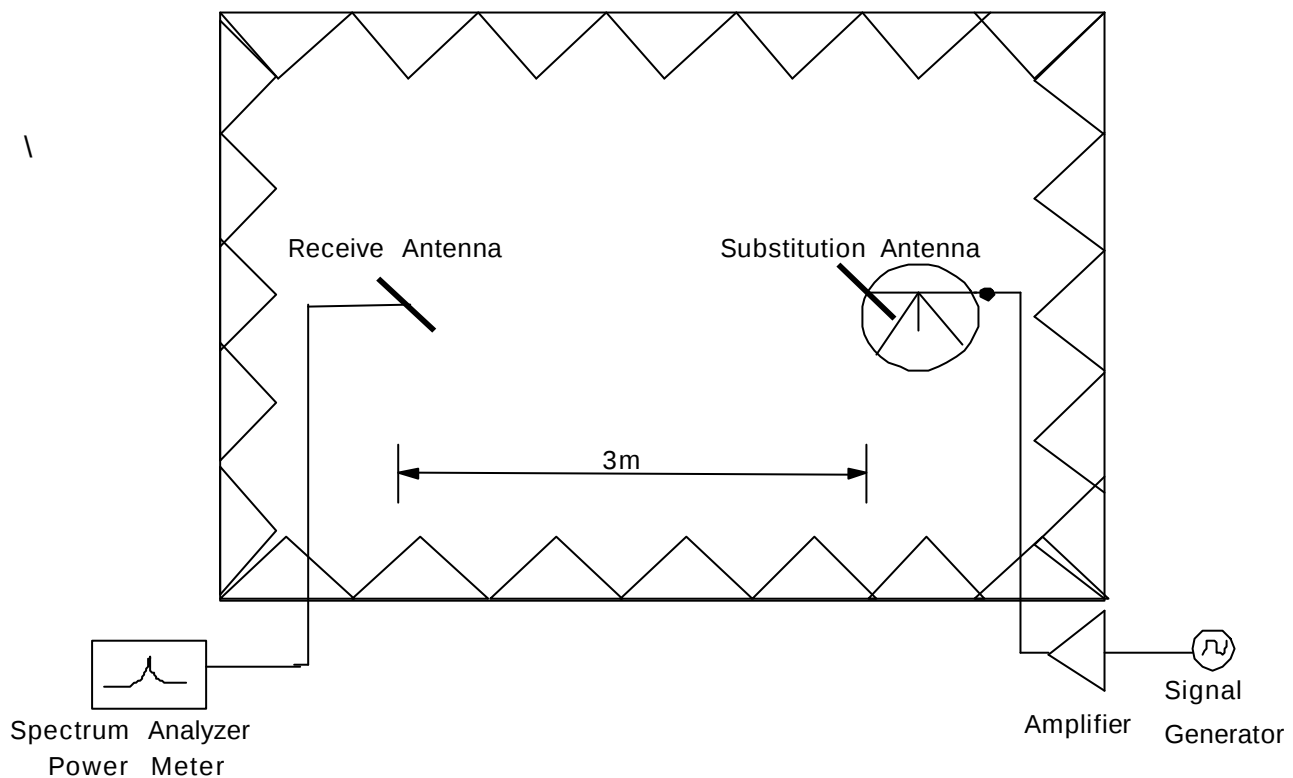


Figure 3. Diagram of ERP/EIRP test Set-up

The EUT was placed on the rotating device at 3-meters from the receive antenna. The turn unit and rotating device was adjusted for the highest reading on the receive spectrum analyzer. **For CDMA & PCS 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 and EIRP are 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.

5.3 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-C-2004

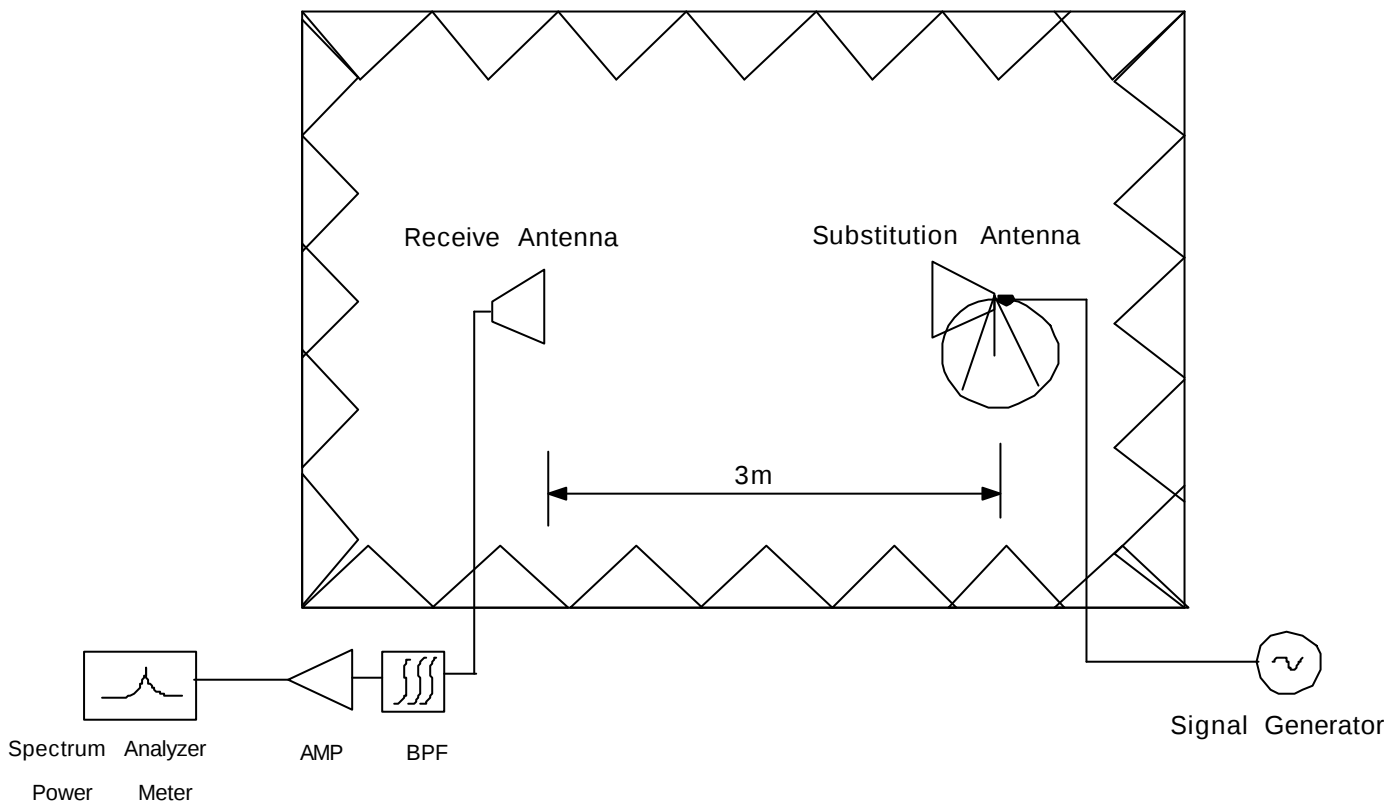


Figure 4. Diagram of Radiated Spurious & Harmonic test Set-up

The EUT was placed on the rotating device at 3-meters from the receive antenna. The turn unit and rotating device 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 600 PCS Mode 2nd Harmonic(3760MHz)

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 3760MHz. So 6.1dB is added to the signal generator reading of -30.9dBm yielding -24.8dBm . The fundamental EIRP was 25.5dBm so this harmonic was $25.5\text{dBm} - (-24.8) = 50.3\text{dBc}$.

5.4 Peak-Average Ratio

A peak to average ratio measurement is performed at the conducted port of the EUT. An average and a peak trace are used on a spectrum analyzer to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth.

- End of page -

5.5 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.

5.6 Spurious and Harmonic Emissions at Antenna Terminal

5.6.1 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.

– End of page –

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

Table 1. Cellular Service Frequency Blocks

5.6.2 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.

$$43 + 10\log(0.333 \text{ W}) = 38.22\text{dB}$$

$$25.22 \text{ dBm} - 38.22 \text{ dB} = -13 \text{ dBm}$$

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. (PCS Mode : 10MHz to 20GHz). 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.

5.7 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 ± 0.00025 (± 2.5 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.
 - 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	P/M (dBm)	Ant gain (dBd)	Ref level (dBm)
824.70	19.00	H	-17.48	-0.67	-16.81
		V	-17.68	-0.67	-17.01
836.52	20.00	H	-17.94	-0.73	-17.21
		V	-17.46	-0.73	-16.73
848.31	21.00	H	-19.65	-0.79	-18.86
		V	-18.35	-0.79	-17.56

■ Result

Frequency (MHz)	From EUT Tested level (dBm)	Polarization (H/V)	Azimuth (angle)	ERP (dBm)	ERP (W)	Battery
824.70	-16.82	H	285/55	18.99	0.079	Standard
836.52	-16.80	H	288/65	20.41	0.110	Standard
848.31	-19.20	H	292/70	20.66	0.116	Standard

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

- All modes of operation were investigated, and the worst-case results are reported.

Radiated measurements at 3 meters by Substitution Method

6.2 Cellular CDMA Radiated Spurious & Harmonic measurement

Field Strength of SPURIOUS Radiation

Operating Frequency : 824.70 MHz(Low), 836.52MHz(Middle), 848.31MHz(High)

Measured Output Power : 20.66 dBm = 0.116 W

Modulation Signal : CDMA

Limit : $43 + 10\log_{10}(P) = 33.66$ dBc

■ Result

Channel	Harmonic	Frequency (MHz)	From EUT Tested level (dBm)	POL (H/V)	Result (dBc)
1013	2	1649.40	-37.76	H	46.88
	3	2474.10	-66.54	H	70.20
	4	3298.80	-66.83	H	67.29
	5	4123.50	-	-	-
	6	4948.20	-	-	-
	7	5772.90	-	-	-
384	2	1673.04	-36.80	H	44.60
	3	2509.56	-67.22	V	70.85
	4	3346.08	-65.76	V	65.96
	5	4182.68	-	-	-
	6	5019.12	-	-	-
	7	5855.64	-	-	-
777	2	1696.62	-39.67	H	46.64
	3	2544.93	-66.81	H	69.79
	4	3393.24	-64.71	H	64.57
	5	4241.55	-	-	-
	6	5089.86	-	-	-
	7	5938.17	-	-	-

Radiated Spurious Emission measurements at 3 meters by Substitution Method

6.3 CDMA Radiated Spurious & Harmonic Conversion Table

Date : July 16, 2009

Test Engineer : KJ KWON

Tx Cable loss
Tx Horn Ant Gain
Tx Level to radiate -13dBm
ESI Level received from Tx with -13dBm
Tested Level from EUT
= ERP+2.14 - (-13 + -)

CH	Har	Frequency (MHz)	Tx C/L dB	Tx Horn Gain dBi	Tx Level dBm	ESI Level : H dBm	ESI Level : V dBm	Tested EUT Level : H dBm	Tested EUT Level : H dBm	Result EUT : H (dBc)	Result EUT : V (dBc)
1013	2	1649.40	-9.02	9.50	-13.50	-26.68	-27.10	-37.76	-43.55	46.88	52.25
	3	2474.10	-11.25	10.70	-12.50	-32.14	-31.45	-66.54	-67.40	70.20	71.75
	4	3298.80	-13.26	12.30	-12.00	-35.31	-35.43	-66.83	-66.92	67.32	67.29
	5	4123.50	-14.79	12.50	-10.70	-38.87	-38.90	-	-	-	-
	6	4948.20	-16.60	12.70	-9.10	-40.93	-40.69	-	-	-	-
	7	5772.90	-18.02	12.90	-7.90	-43.59	-43.30	-	-	-	-
384	2	1673.04	-9.05	9.50	-13.50	-28.00	-28.63	-36.80	-41.32	44.60	48.49
	3	2509.56	-11.31	10.70	-12.40	-32.40	-31.64	-67.45	-67.22	70.85	71.38
	4	3346.08	-13.33	12.30	-12.00	-35.73	-35.60	-66.94	-65.76	67.01	65.96
	5	4182.68	-15.01	12.50	-10.50	-39.30	-39.11	-	-	-	-
	6	5019.12	-16.84	12.70	-8.90	-41.59	-41.32	-	-	-	-
	7	5855.64	-18.26	12.90	-7.60	-43.87	-43.84	-	-	-	-
777	2	1696.62	-9.07	9.50	-13.40	-28.83	-27.75	-39.67	-43.07	46.64	51.12
	3	2544.93	-11.35	10.70	-12.40	-32.38	-32.94	-66.81	-66.93	70.23	69.79
	4	3393.24	-13.26	12.30	-12.00	-35.94	-35.46	-64.71	-65.95	64.57	66.29
	5	4241.55	-15.20	12.50	-10.30	-39.34	-39.07	-	-	-	-
	6	5089.86	-16.99	12.70	-8.70	-41.96	-41.42	-	-	-	-
	7	5938.17	-18.38	12.90	-7.50	-43.98	-43.32	-	-	-	-

6.4 Frequency Stability

6.4.1 CDMA Frequency Stability Table

Operating Frequency : 836,520,000 Hz

Channel : 384

Reference Voltage : 3.7VDC

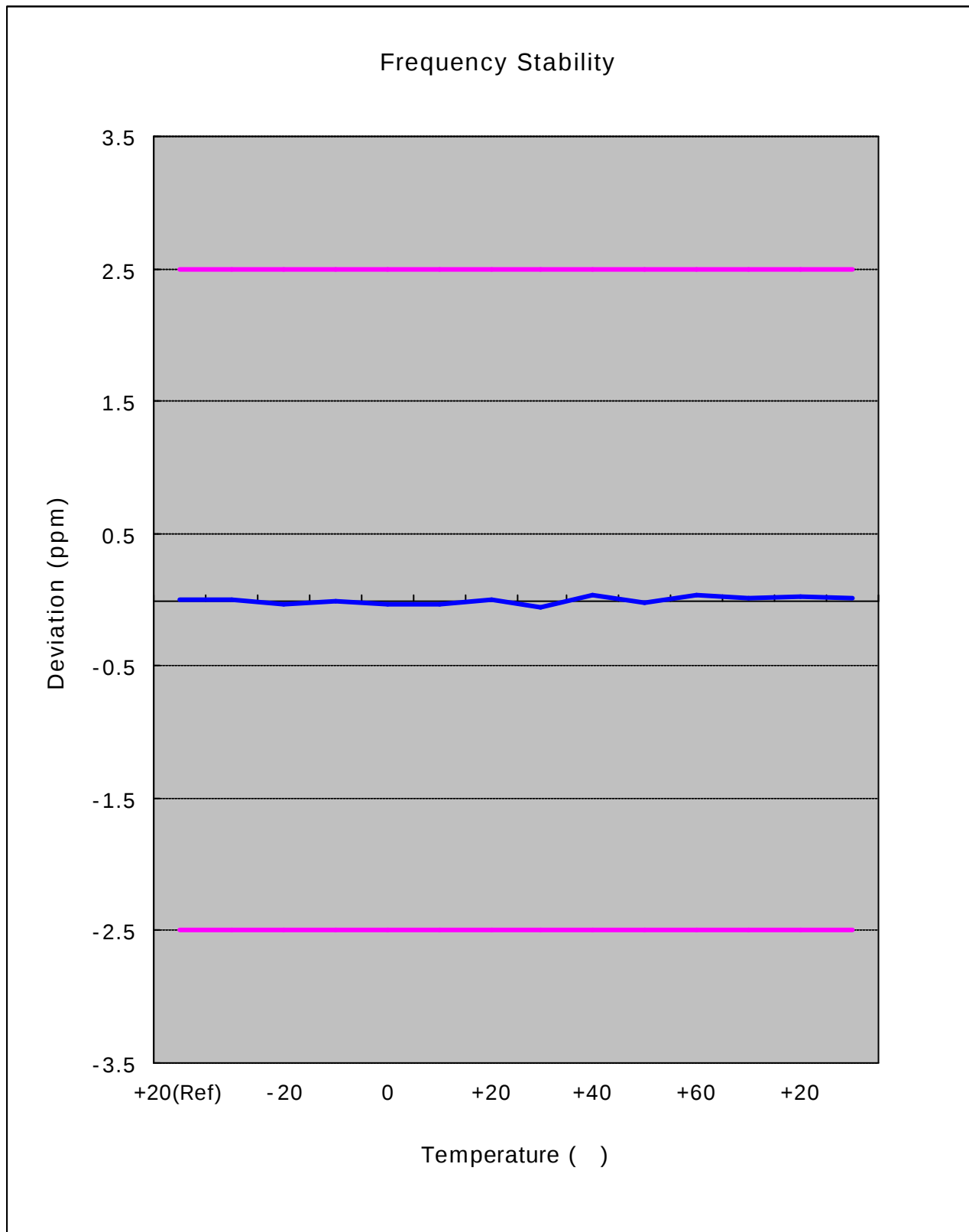
Deviation Limit : ± 0.00025 % or 2.5ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency Error (Hz)	Frequency (Hz)	Deviation (%)	ppm
100%	3.70	+20(Ref)	14.40	836,520,014	0.000002	0.017
100%		-30	27.80	836,520,028	0.000003	0.033
100%		-20	41.30	836,520,041	0.000005	0.049
100%		-10	20.10	836,520,020	0.000002	0.024
100%		0	7.20	836,520,007	0.000001	0.009
100%		+10	22.70	836,520,023	0.000003	0.027
100%		+20	14.40	836,520,014	0.000002	0.017
100%		+30	43.40	836,520,043	0.000005	0.052
100%		+40	35.90	836,520,036	0.000004	0.043
100%		+50	-3.60	836,519,996	0.000000	-0.004
100%		+60	-26.20	836,519,974	-0.000003	-0.031
85%	3.25	+20	-37.90	836,519,962	-0.000005	-0.045
115%	4.26	+20	10.30	836,520,010	0.000001	0.012
Batt. Endpoint	3.25	+20	-37.90	836,519,962	-0.000005	-0.045

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

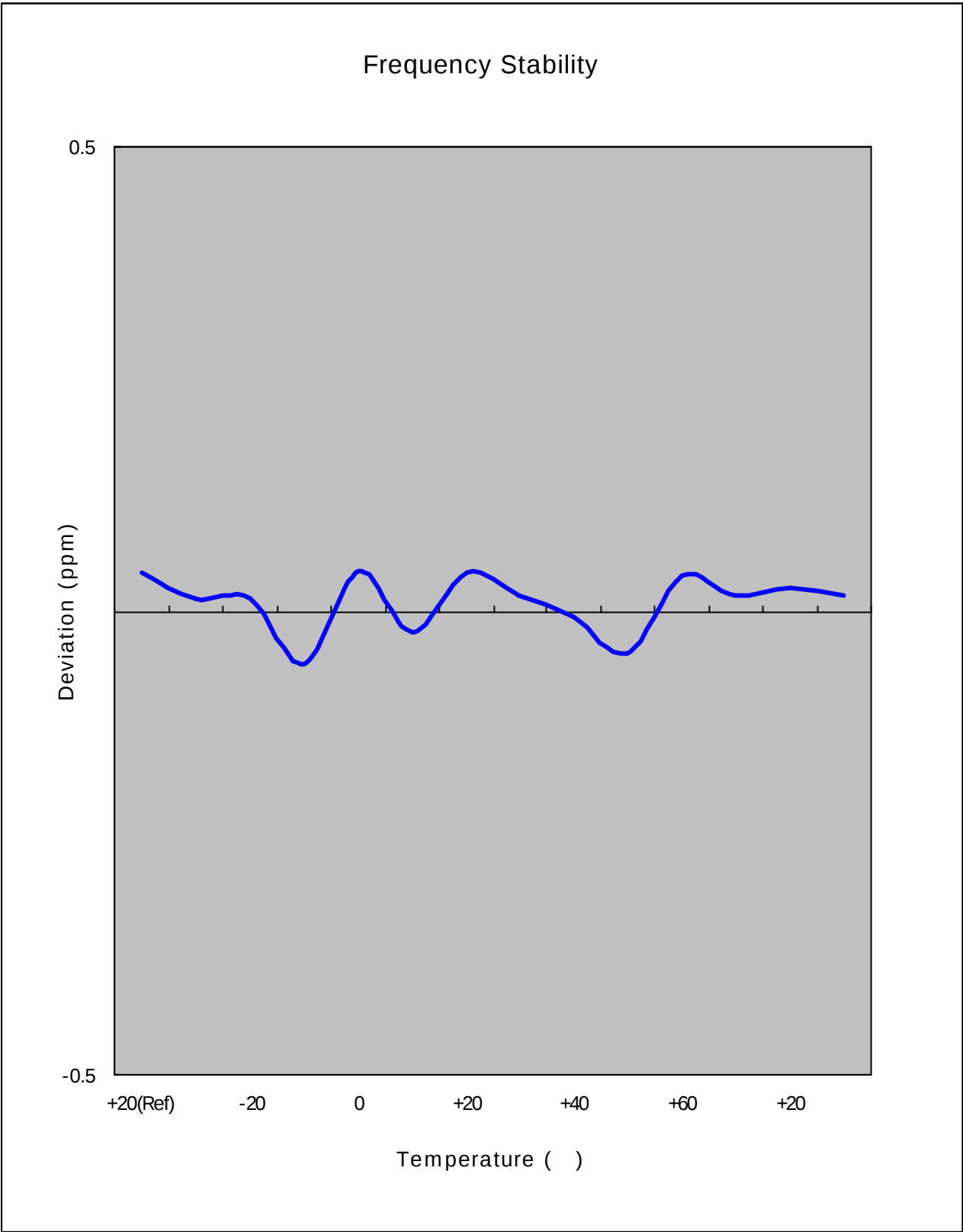
The EUT is tested down to the battery end point

6.4.2 CDMA Frequency Stability Graph



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Zoom In



7. SAMPLE CALCULATION

7.1 Emission Designator

Emission Designator = 1M25F9W

CDMA BW = 1.25MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination(Audio/Data)

(Measured at the 99.75% power bandwidth)

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8. CONCLUSION

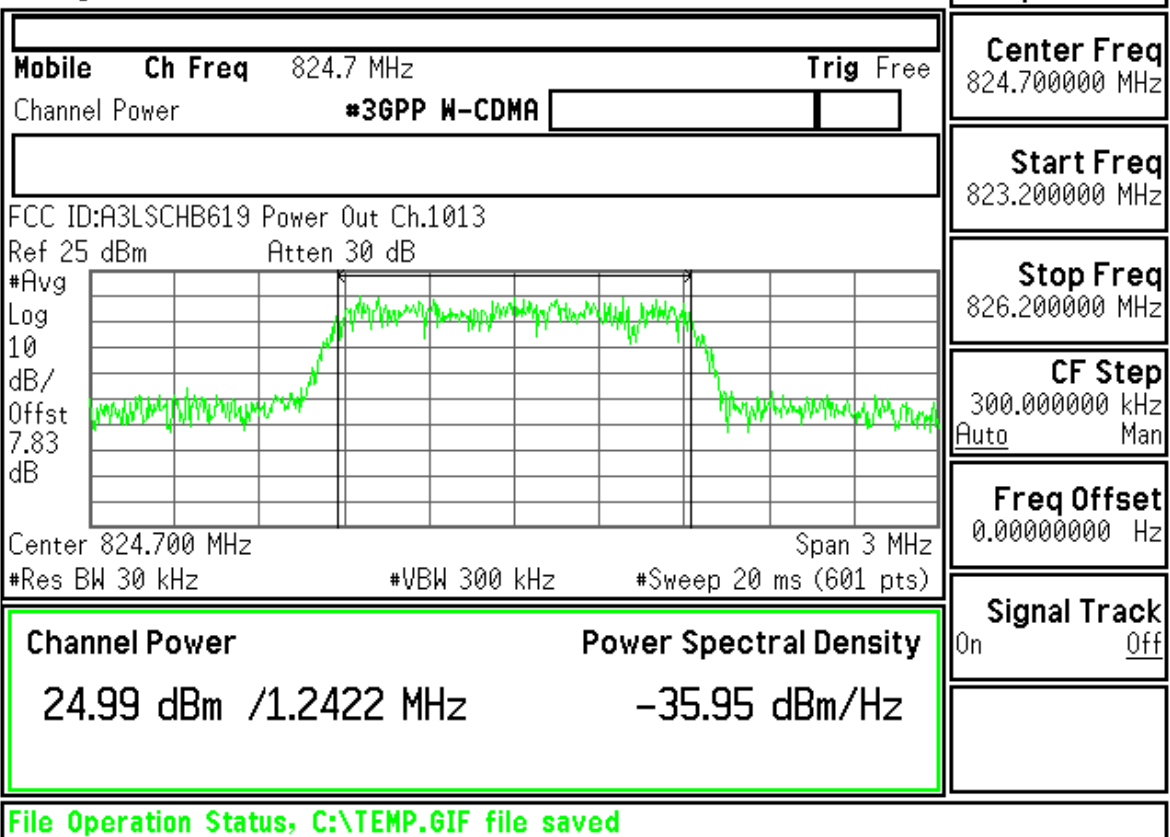
The data collected shows that the SAMSUNG Cellular CDMA Phone.
FCC ID : A3LSCHB619 complies with all the requirements of Parts 2, 22 of the FCC Rules.

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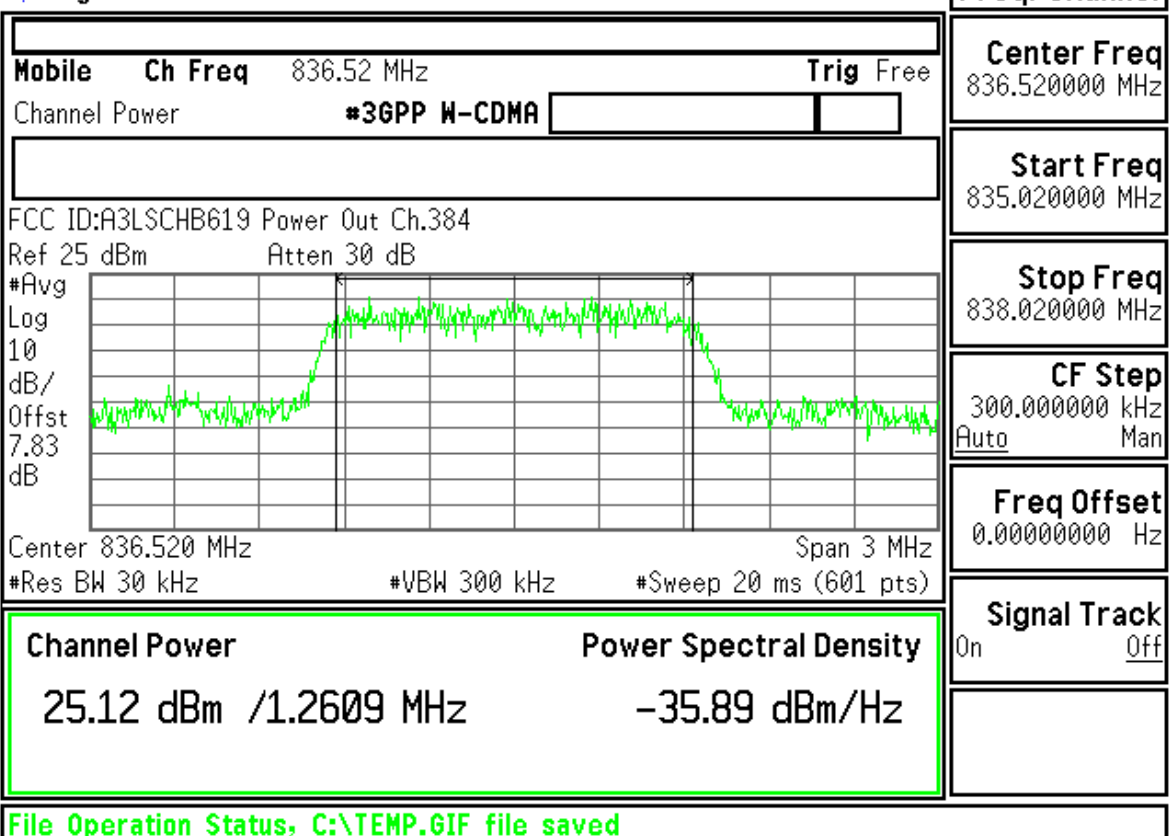
9. TEST PLOTS

 Agilent

R T


 Agilent

R T



Agilent

R T

Freq/Channel

Mobile Ch Freq 848.31 MHz Trig Free
 Channel Power #3GPP W-CDMA

Center Freq
848.310000 MHz

Start Freq
846.810000 MHz

Stop Freq
849.810000 MHz

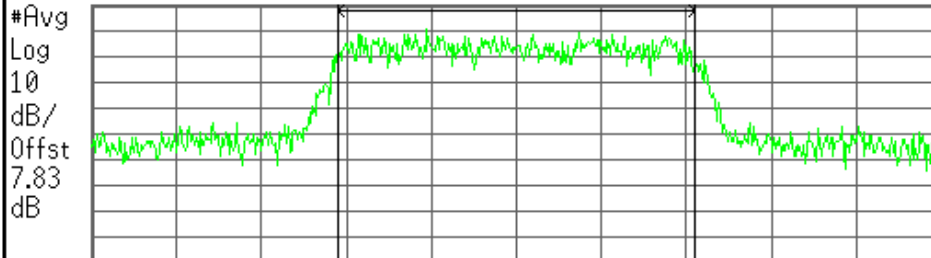
CF Step
300.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

FCC ID:A3LSCHB619 Power Out Ch.777

Ref 25 dBm Atten 30 dB



Center 848.310 MHz Span 3 MHz

#Res BW 30 kHz #VBW 300 kHz #Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

25.12 dBm /1.2510 MHz

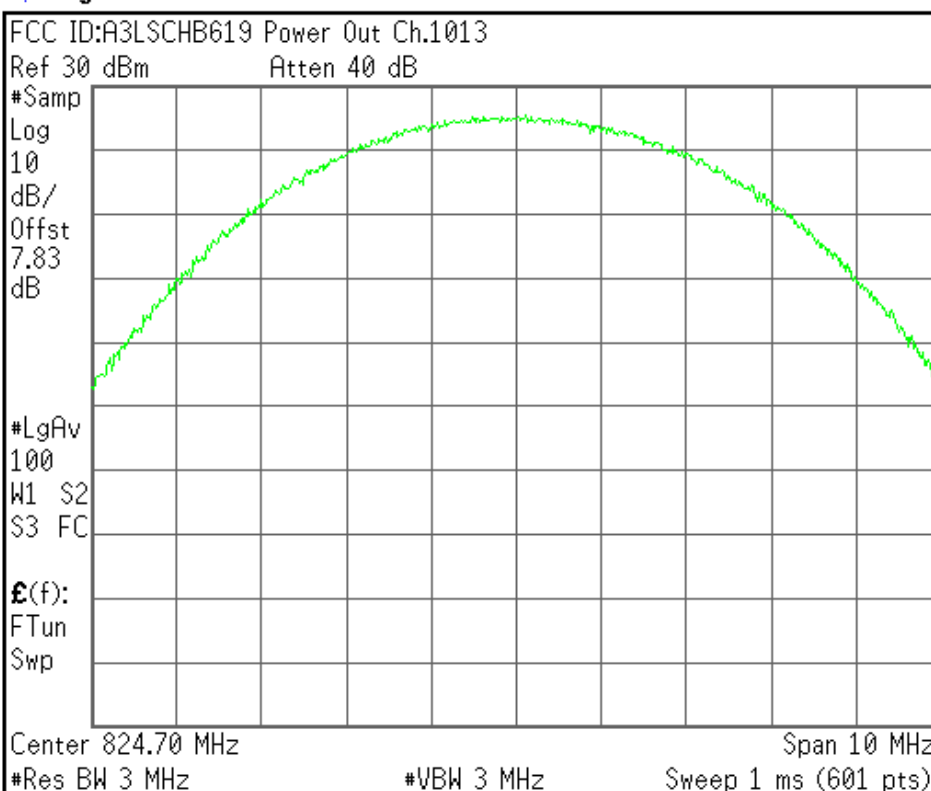
-35.85 dBm/Hz

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Agilent

R T

Freq/Channel



Center Freq
824.700000 MHz

Start Freq
819.700000 MHz

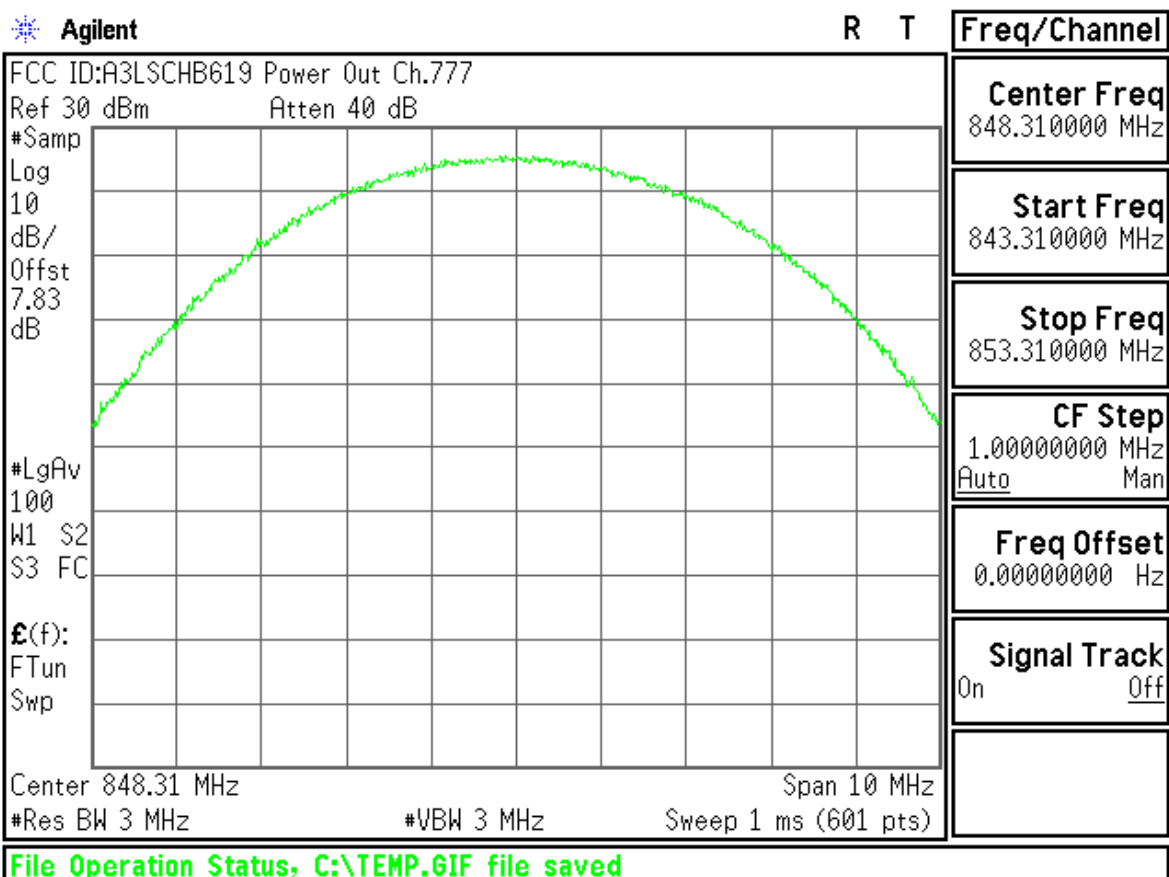
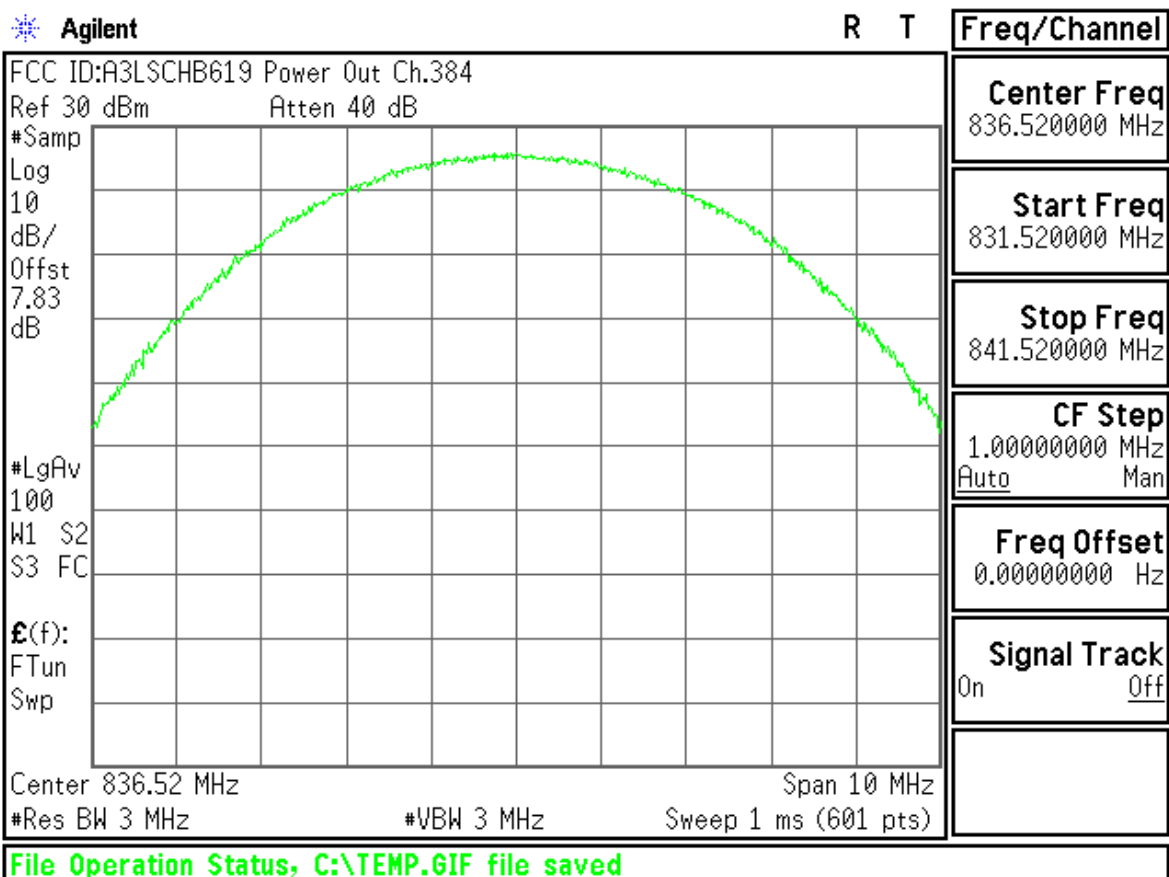
Stop Freq
829.700000 MHz

CF Step
1.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

File Operation Status, C:\TEMP.GIF file saved



Agilent

R T

Freq/Channel

Mobile Ch Freq 824.7 MHz Trig Free
Occupied Bandwidth #3GPP W-CDMA

Center Freq
824.700000 MHz

Start Freq
823.200000 MHz

Stop Freq
826.200000 MHz

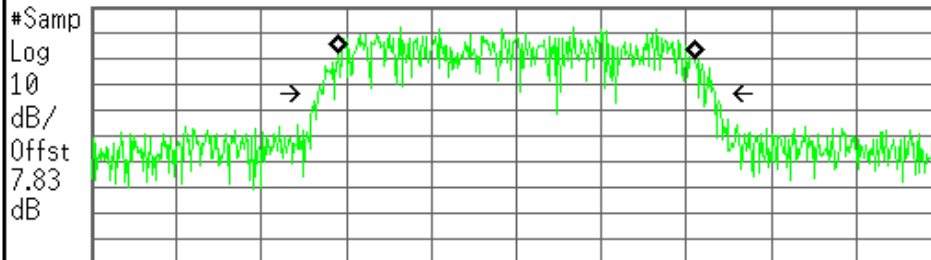
CF Step
300.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

FCC ID:A3LSCHB619 0BW Ch.1013

Ref 25 dBm Atten 30 dB



Center 824.700 MHz Span 3 MHz

#Res BW 30 kHz #VBW 300 kHz #Sweep 20 ms (601 pts)

Occupied Bandwidth 1.2593 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error -1.266 kHz
x dB Bandwidth 1.399 MHz*

File Operation Status, C:\TEMP.GIF file saved

Agilent

R T

Freq/Channel

Mobile Ch Freq 836.52 MHz Trig Free
Occupied Bandwidth #3GPP W-CDMA

Center Freq
836.520000 MHz

Start Freq
835.020000 MHz

Stop Freq
838.020000 MHz

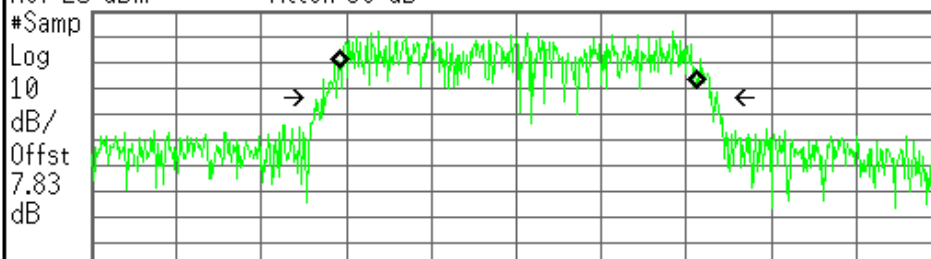
CF Step
300.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

FCC ID:A3LSCHB619 0BW Ch.384

Ref 25 dBm Atten 30 dB

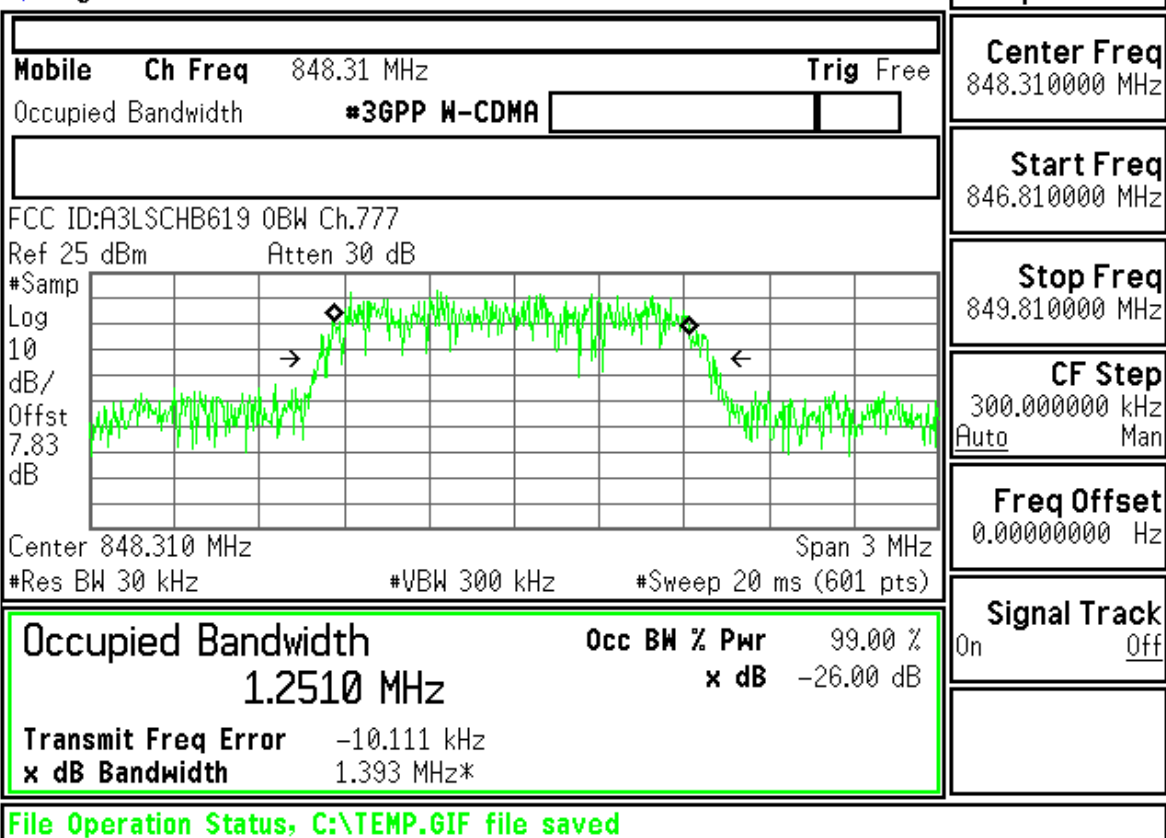


Center 836.520 MHz Span 3 MHz

#Res BW 30 kHz #VBW 300 kHz #Sweep 20 ms (601 pts)

Occupied Bandwidth 1.2609 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error 4.646 kHz
x dB Bandwidth 1.399 MHz*

File Operation Status, C:\TEMP.GIF file saved



Agilent

R T

Freq/Channel

FCC ID:A3LSCHB619 Cond Spur Ch.1013

Ref 25 dBm

Atten 30 dB

#Peak

Log

10

dB/

Offst

7.83

dB

DI

-13.0

dBm

#LgAv

M1 S2

S3 FC

£(f):

FTun

Swp

AC Coupled: unspecified below 20 MHz

Center 1.255 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 4.16 ms (601 pts)

Invalid suffix

Center Freq

1.25500000 GHz

Start Freq

10.00000000 MHz

Stop Freq

2.50000000 GHz

CF Step

249.0000000 MHz

Auto Man

Freq Offset

0.00000000 Hz

Signal Track

On Off

Agilent

R T

Freq/Channel

FCC ID:A3LSCHB619 Cond Spur Ch.1013

Ref 25 dBm

Atten 30 dB

Mkr1 473.4 MHz

-43.94 dBm

#Peak

Log

10

dB/

Offst

7.83

dB

DI

-13.0

dBm

#LgAv

V1 S2

S3 FC

£(f):

FTun

Swp

AC Coupled: unspecified below 20 MHz

Center 367.4 MHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 1.2 ms (601 pts)

File Operation Status, C:\TEMP.GIF file saved

Center Freq

367.350000 MHz

Start Freq

10.00000000 MHz

Stop Freq

724.700000 MHz

CF Step

71.4700000 MHz

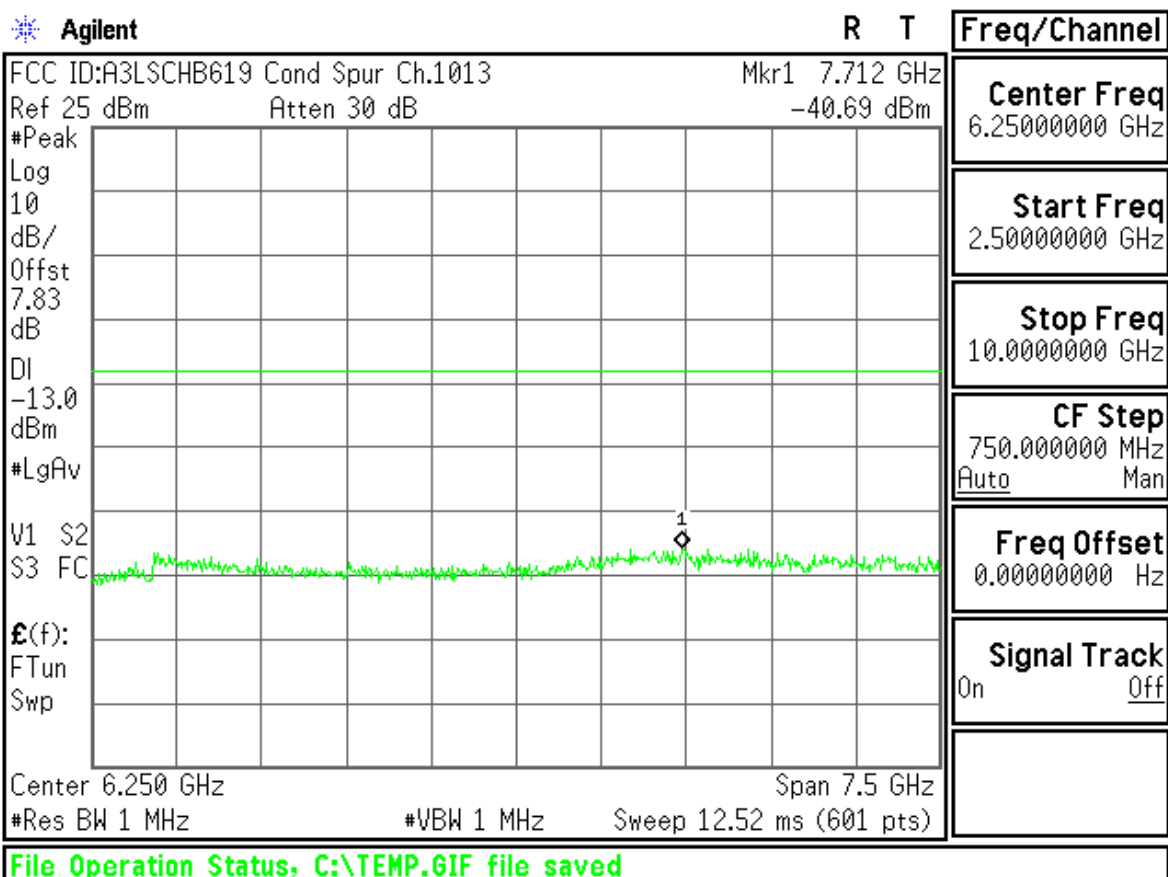
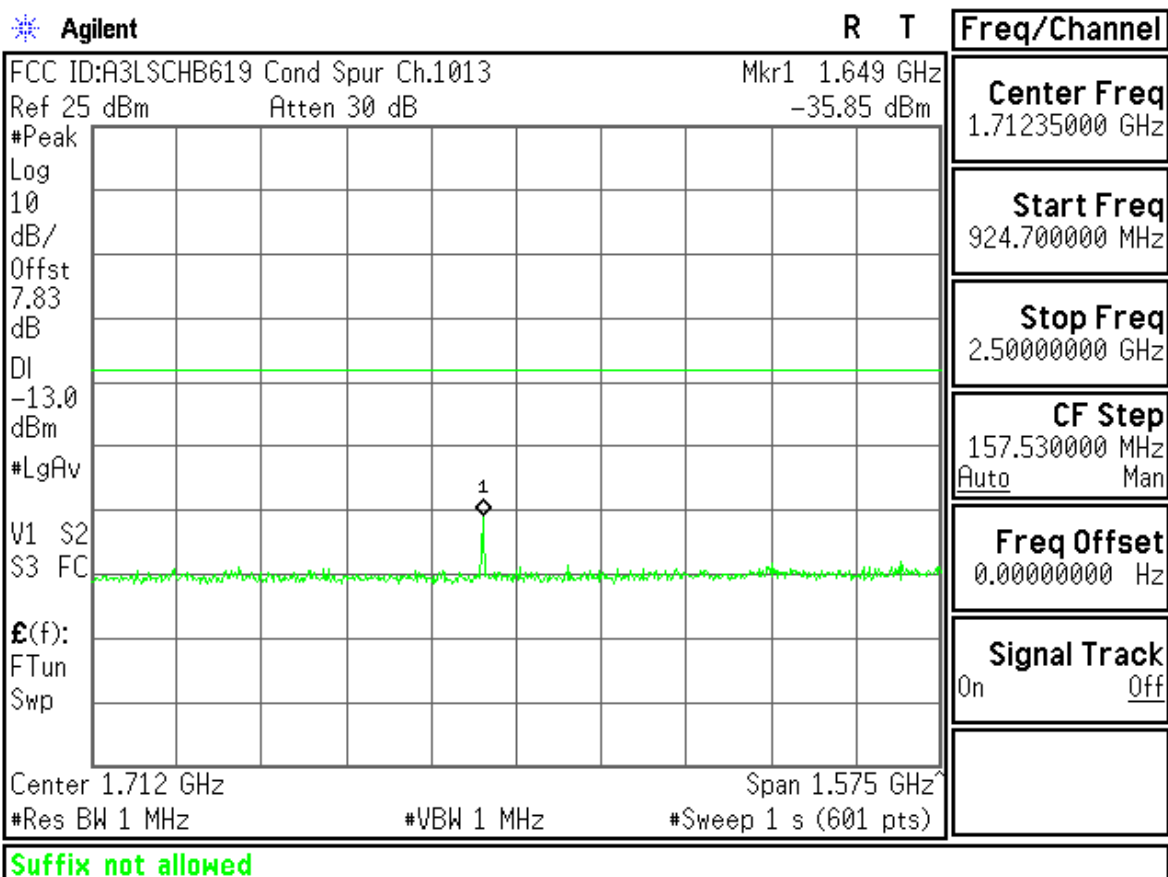
Auto Man

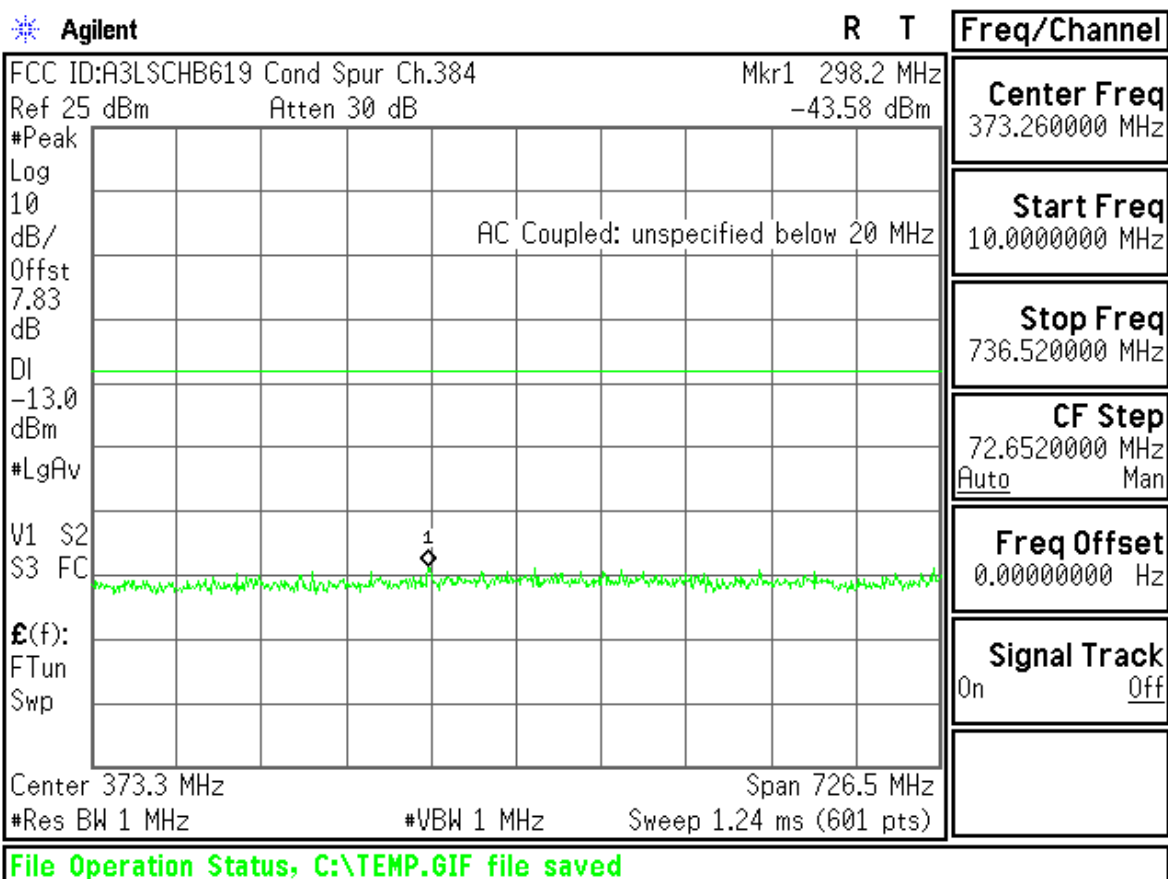
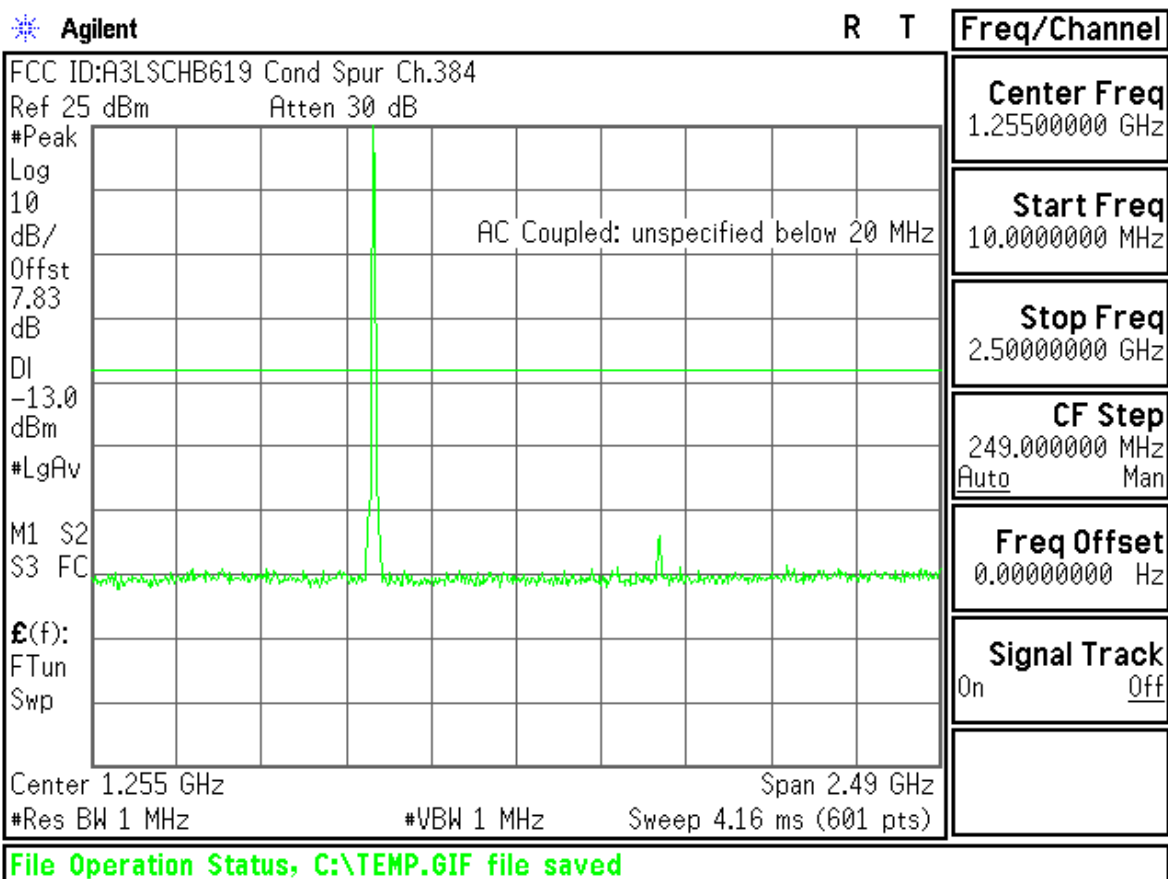
Freq Offset

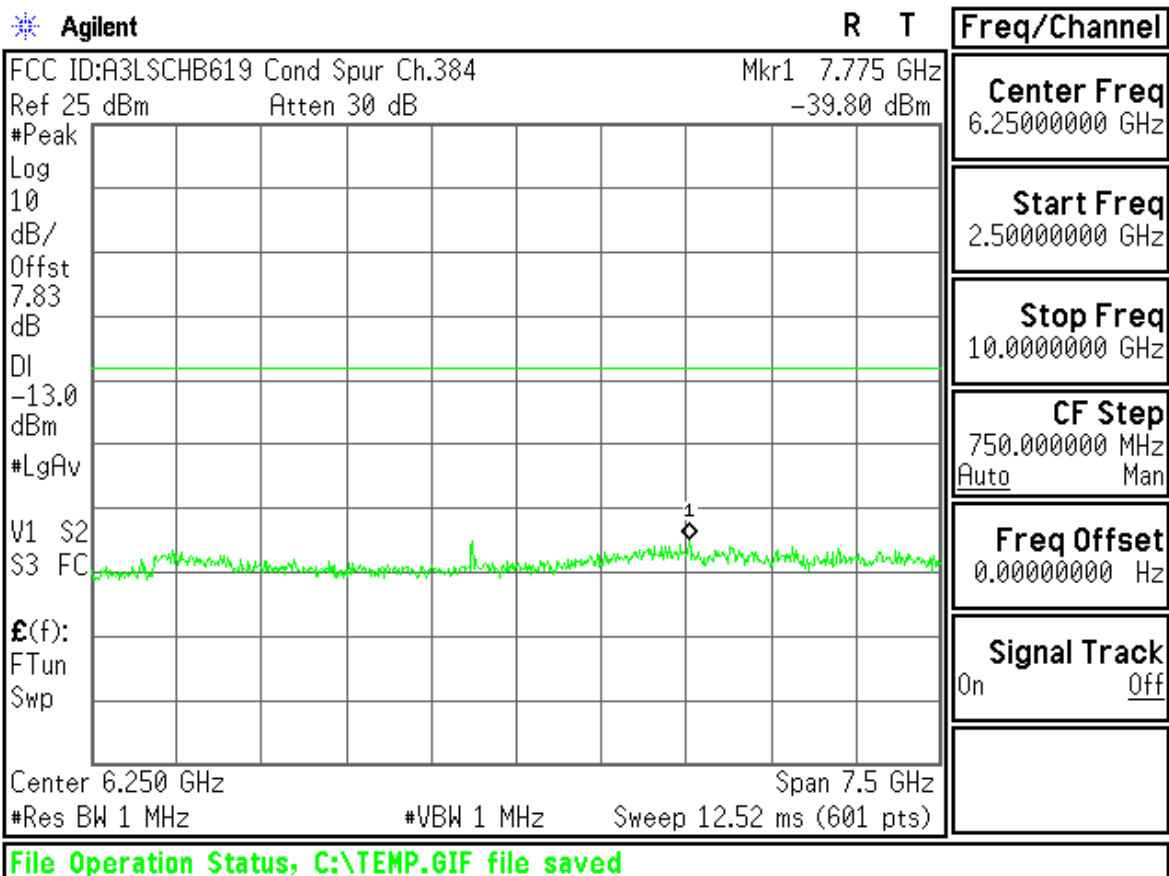
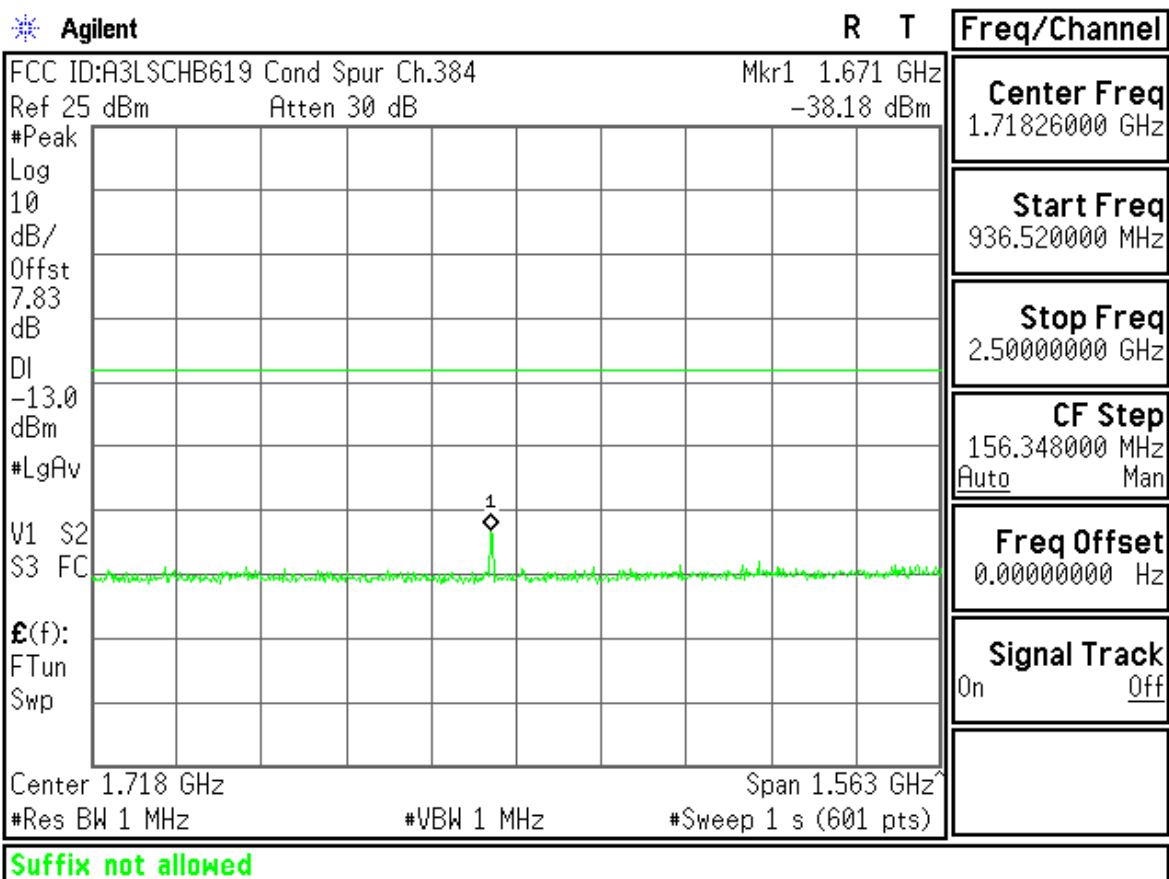
0.00000000 Hz

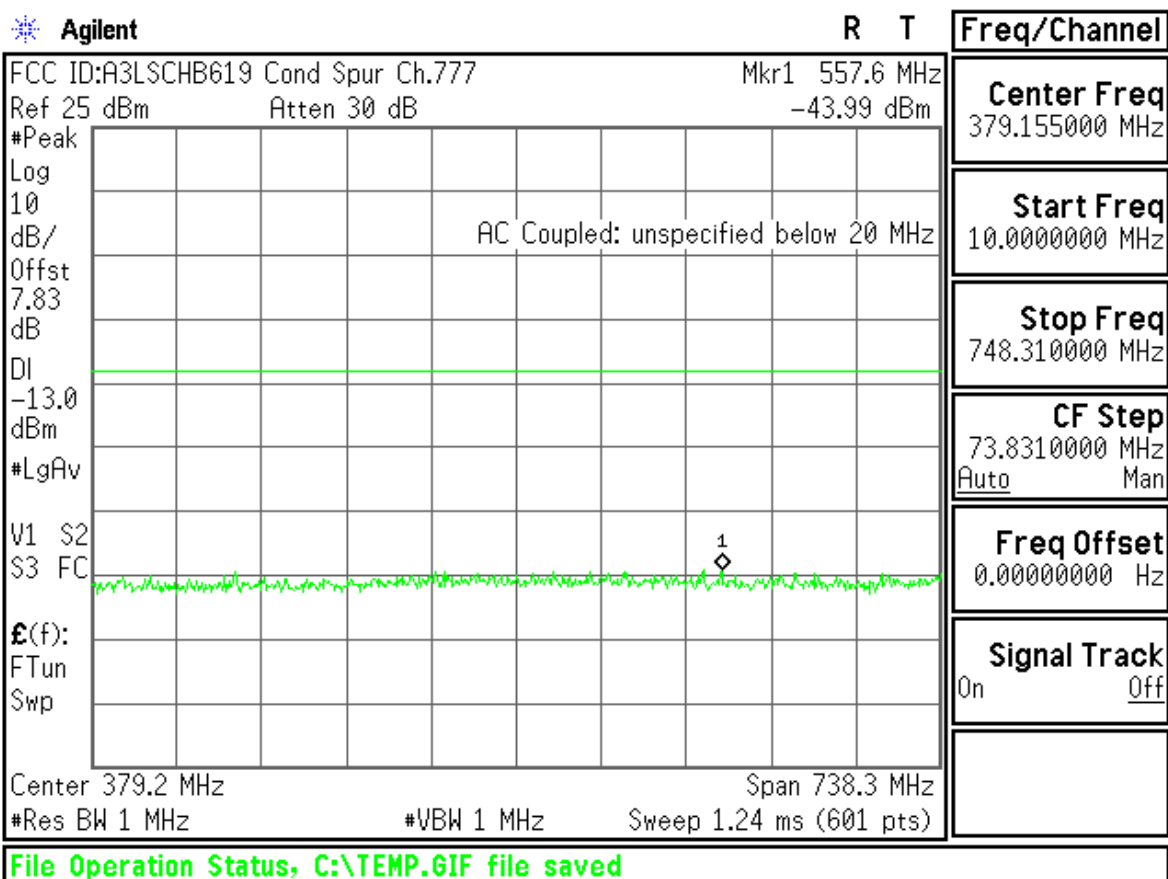
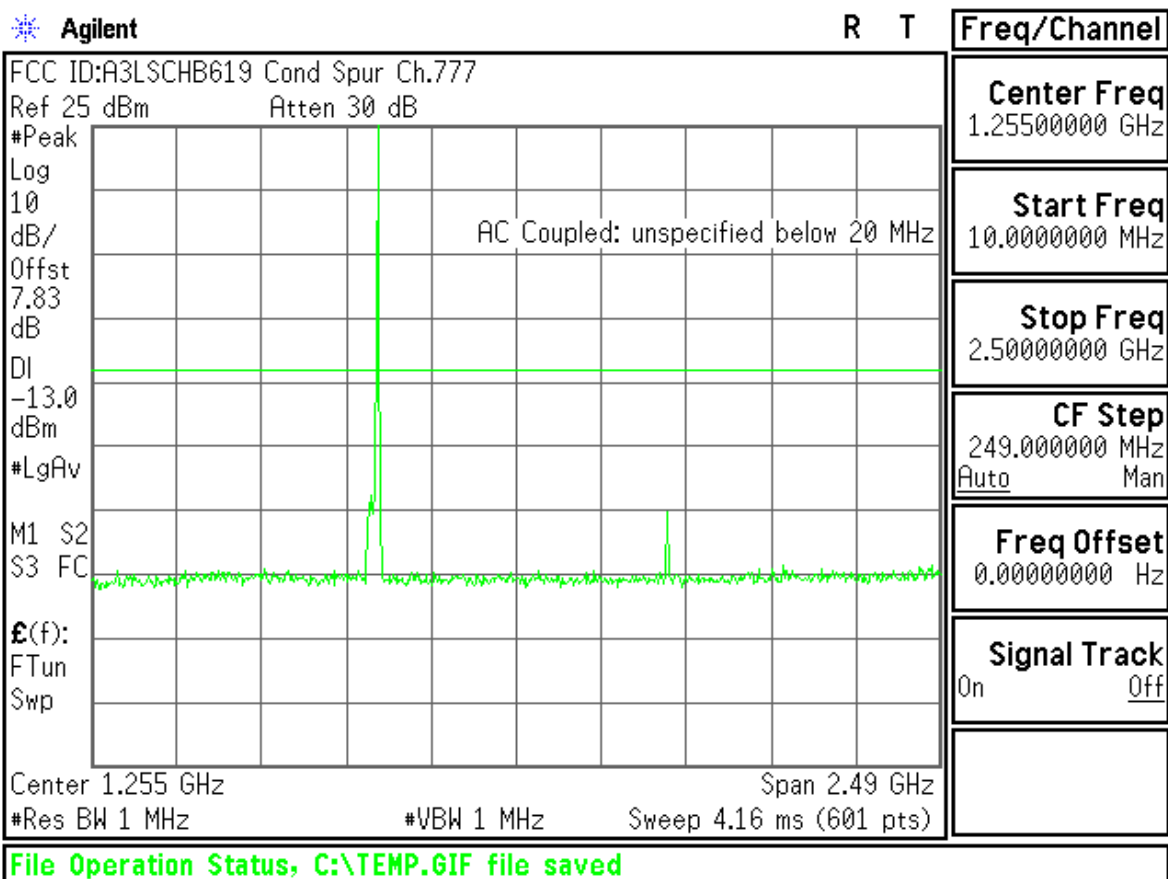
Signal Track

On Off









Agilent

R T

Freq/Channel

FCC ID:A3LSCHB619 Cond Spur Ch.777

Mkr1 1.696 GHz

Ref 25 dBm

Atten 30 dB

-34.76 dBm

#Peak

Log

10

dB/

Offst

7.83

dB

DI

-13.0

dBm

#LgAv

V1 S2

S3 FC

£(f):

FTun

Swp

Center 1.724 GHz

Span 1.552 GHz

#Res BW 1 MHz

#VBW 1 MHz

#Sweep 1 s (601 pts)

Center Freq
1.72415500 GHz

Start Freq
948.310000 MHz

Stop Freq
2.50000000 GHz

CF Step
155.169000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Suffix not allowed

Agilent

R T

Freq/Channel

FCC ID:A3LSCHB619 Cond Spur Ch.777

Mkr1 5.938 GHz

Ref 25 dBm

Atten 30 dB

-39.96 dBm

#Peak

Log

10

dB/

Offst

7.83

dB

DI

-13.0

dBm

#LgAv

V1 S2

S3 FC

£(f):

FTun

Swp

Center 6.250 GHz

Span 7.5 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 12.52 ms (601 pts)

Center Freq
6.25000000 GHz

Start Freq
2.50000000 GHz

Stop Freq
10.00000000 GHz

CF Step
750.000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

R T

Freq/Channel

FCC ID:A3LSCHB619 Band Edge Ch.1013

Mkr1 824.000 MHz

Ref 25 dBm

Atten 30 dB

-17.190 dBm

#Samp

Log

10

dB/

Offst

7.83

dB

DI

-13.0

dBm

#LgAv

100

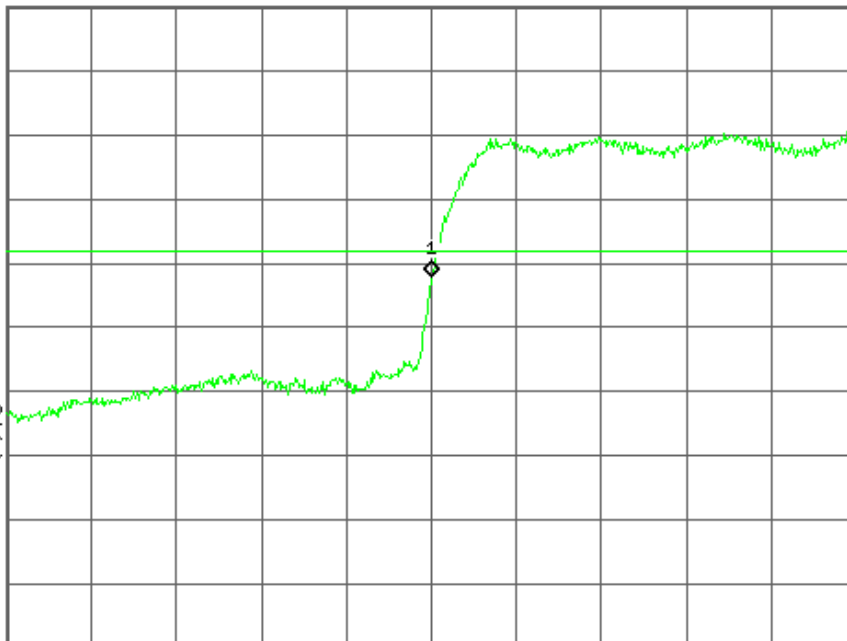
W1 S2

S3 FC

£(f):

f>50k

Swp



Center 824.000 MHz

Span 2 MHz

#Res BW 13 kHz

#VBW 13 kHz

Sweep 45.16 ms (601 pts)

Invalid suffix

Center Freq
824.000000 MHz

Start Freq
823.000000 MHz

Stop Freq
825.000000 MHz

CF Step
200.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Agilent

R T

Freq/Channel

FCC ID:A3LSCHB619 Band Edge Ch.777

Mkr1 849.000 MHz

Ref 26 dBm

Atten 30 dB

-13.774 dBm

#Samp

Log

10

dB/

Offst

7.83

dB

DI

-13.0

dBm

#LgAv

100

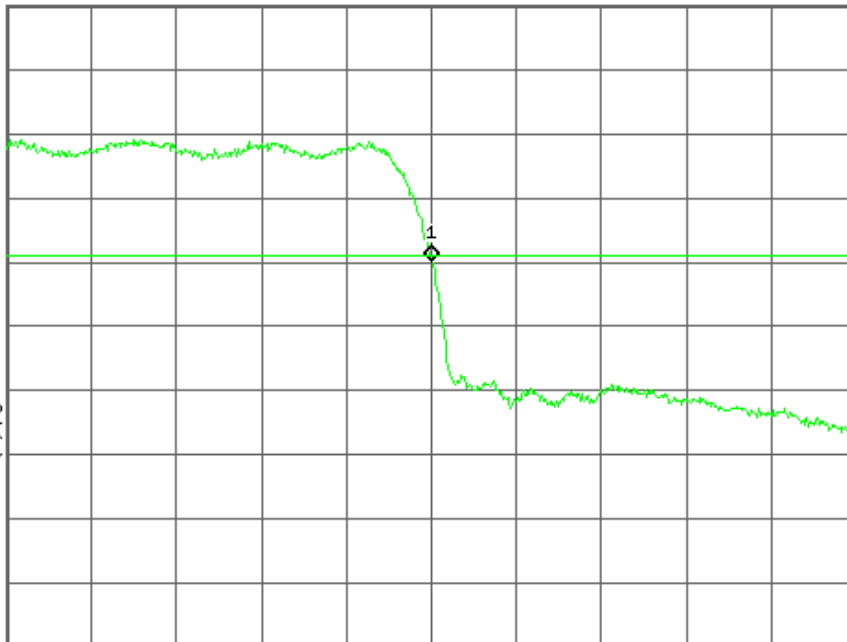
W1 S2

S3 FC

£(f):

f>50k

Swp



Center 849.000 MHz

Span 2 MHz

#Res BW 13 kHz

#VBW 13 kHz

Sweep 45.16 ms (601 pts)

File Operation Status, C:\TEMP.GIF file saved

Center Freq
849.000000 MHz

Start Freq
848.000000 MHz

Stop Freq
850.000000 MHz

CF Step
200.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

