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 27 SUBPART CERTIFICATION REPORT

Model Tested:	**SCH-R390**
FCC ID (Requested):	**A3LSCHR390**
Report No:	**FJ-060-R2**
Job No:	**FJ-060**
Date issued:	**March 26, 2012**

- Abstract –
All measurement reported here in accordance with FCC Rules, 47CFR Part2, Part27

Prepared By

HK LEE - Test Engineer

Authorized By

WT JANG – Technical Manager

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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: A3LSCHR390
- Model: SCH-R390
- Quantity: Quantity production is planned
- Emission Designators: 1M27F9W(AWS CDMA)
- Tx Freq. Range: 1711.25 – 1753.75MHz (AWS CDMA)
- Rx Freq. Range: 2111.25 – 2153.75MHz (AWS CDMA)
- Max. Power Rating: 0.114 W EIRP AWS (20.55dBm)
- FCC Classification(s): PCS Licensed Portable Tx Held to Ear (PCE)
- Equipment (EUT) Type: Cellular/AWS/PCS CDMA Phone with Bluetooth
- Modulation(s): CDMA
- Frequency Tolerance: ±0.00025% (2.5ppm)
- FCC Rule Part(s): §27(L), §2.
- Dates of Test: February 29 – March 2, 2012
- Place of Test: SAMSUNG Lab,
- Test Report S/N: FJ-060-R2

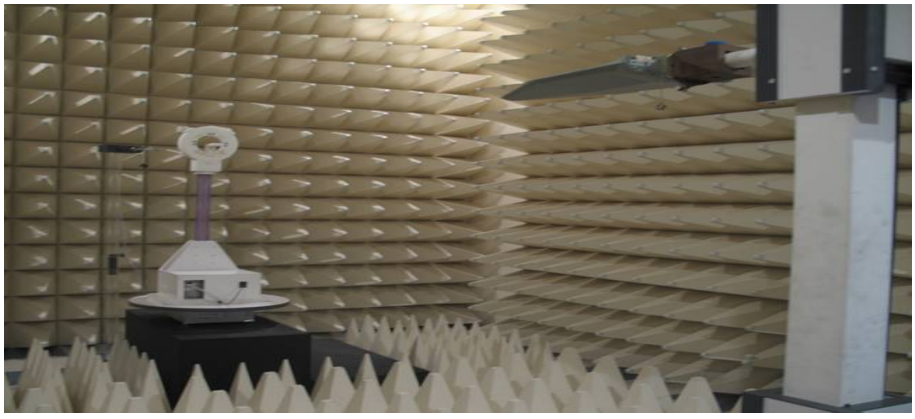
2. INTRODUCTION

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.



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	2012-10-25
	E4440A(3Hz~26.5GHz)	MY46187454	2013-03-14
	E4440A(3Hz~26.5GHz)	MY41000236	2012-04-27
Signal Generator	SMR20	835197/030	2012-12-01
Network Analyzer	8753E	JP38160590	2012-06-21
Pre-Amplifier	8449B	3008A00691	2012-12-09
Communication test set	8960	MY47510060	2013-03-05
	8960	GB42360886	2012-09-02
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	2013-09-05
	BBHA9120	9120D-636	2012-07-14
Dipole Antenna	UHA 9105	9105-2412	2013-09-09
	UHA 9105	9105-2413	2012-07-15
Receive Antenna	HL040	353255/019	2013-09-05
Power Supply	E3640A	MY40003594	2012-06-21
	E3640A	MY40003595	2012-05-27
	E3632A	MY40022438	2013-03-02
Divider	11636B	51946	2012-07-04
	11636B	51942	2012-07-05
	11636B	56918	2012-09-28
High Pass Filter	WHK/3.0/18G-10SS	492	2013-04-09
	WHK/3.5/18G-10SS	4	2013-04-09
Environmental Chamber	SH-241	92000549	2012-11-14
	SH-241	92000548	2012-11-14
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 **RC1/SO55**, with “All Up” power control bits.

The following procedures were followed according to FCC “SAR Measurement Procedures for 3G Devices”, October 2007.

1. If the mobile station (MS) supports Reverse TCH RC 1 and Forward TCH RC 1, set up a call using Fundamental Channel Test Move 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
Îor	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
Îor	dBm/1.23MHz	-86
Pilot Ec/Ior	dB	-7
Traffic Ec/Ior	dB	-7.4

Table 5-2
Parameters for Max. Power for RC3

Band	Channel	CDMA2000 RC	SO2	SO55	TDSO SO32 F+SCH	TDSO SO32 F-SCH
AWS	25	RC1	24.54	24.61	24.53	24.52
		RC3	24.52	24.51		
	450	RC1	24.46	24.43	24.40	24.39
		RC3	24.39	24.40		
	875	RC1	24.42	24.43	24.40	24.40
		RC3	24.40	24.40		

Table 5-3
Maximum Power Output Table for SCH-R390

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

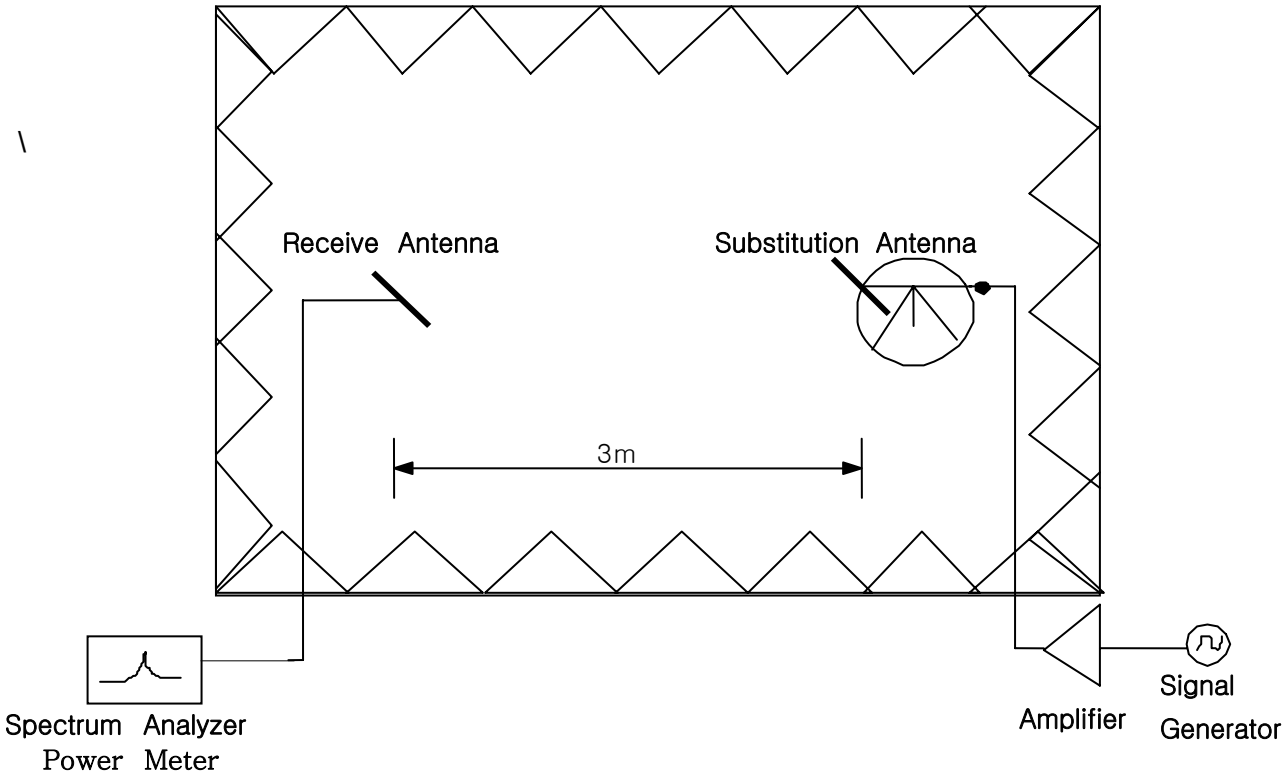


Figure 3. Diagram of ERP/EIRP test Set-up

The EUT was placed on the rotating device at 3-meters from the receive antenna and tested in 3 orthogonal planes. 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

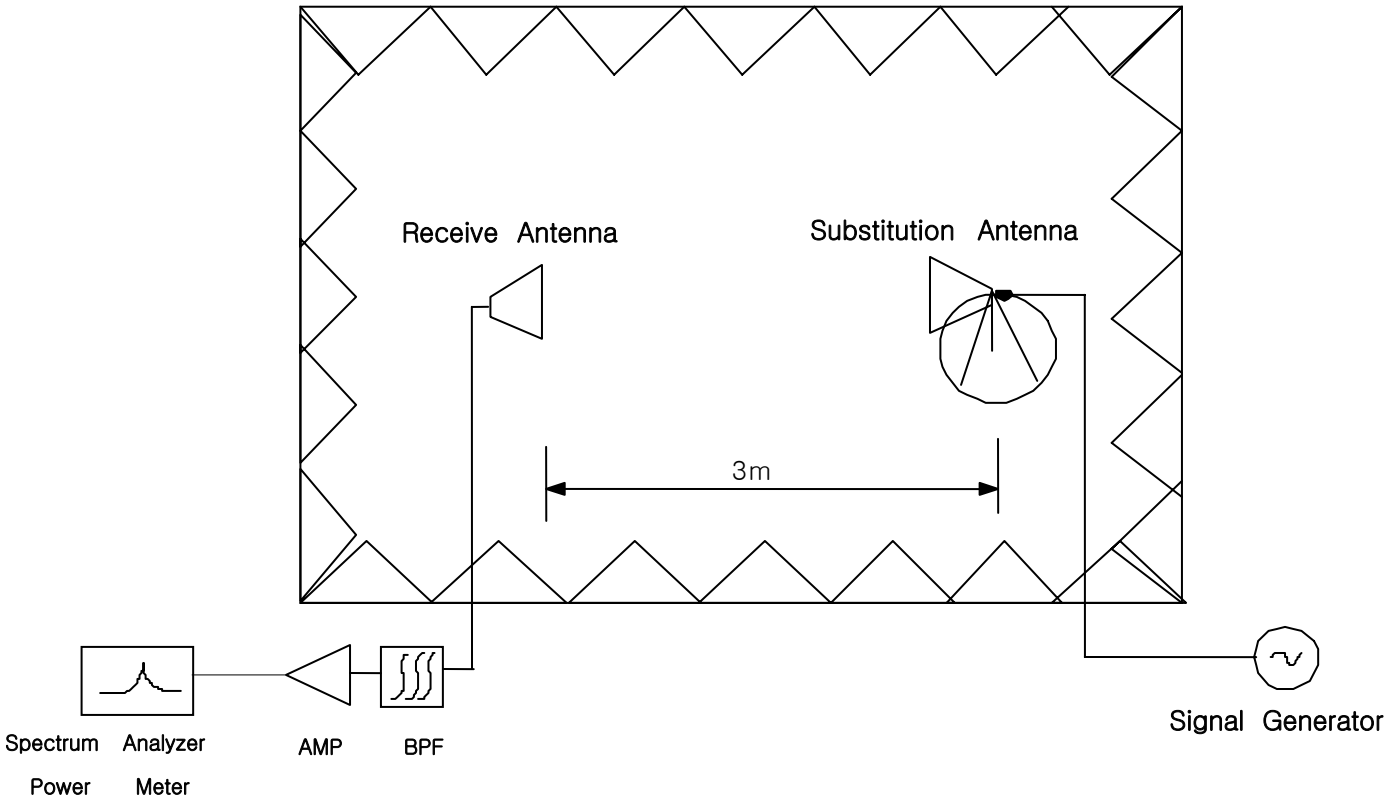


Figure 4. Diagram of Radiated Spurious & Harmonic test Set-up

The EUT was placed on the rotating device at 3-meters from the receive antenna and tested in 3 orthogonal planes. 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 25.5dBm –(-24.8)= 50.3dBc .

5.4 Peak-Average Ratio

A peak to average ratio measurement is performed at the conducted port of the EUT. For CDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function(CCDF) measurement profile is used to determine the largest deviation between the An average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level. For GSM signals, 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.

– End of page –

BLOCK	Freq. Range (MHz) Transmitter (Tx)	Freq. Range (MHz) Receiver (Rx)
A	1710 – 1720	2110 – 2120
B	1720 – 1730	2120 – 2130
C	1730 – 1735	2130 – 2135
D	1735 – 1740	2135 – 2140
E	1740 – 1745	2140 – 2145
F	1745 – 1755	2145 – 2155

Table 1. Broadband AWS 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+10log (P)dB. Limit equivalent to –13dBm, calculation shown below.

43 + 10log (0.333 W) = 38.22dB
25.22 dBm –38.22 dB = -13 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 –13dBm 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. (AWS, PCS Mode : 10MHz to 20GHz). A display line was placed at –13dBm 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 +50°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 (±2.5ppm) 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 +50°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 Equivalent Isotropic Radiated Power(E.I.R.P.)

Supply Voltage : 3.7VDC

Modulation : AWS

■**Result**

Frequency (MHz)	Tested level [dBm]	Substitute Level [dBm]	Antenna Gain [dBd]	Polarization [H/V]	EIRP [dBm]	EIRP [W]	Battery
1711.25	-26.94	11.45	9.1	V	20.55	0.114	Standard
1732.50	-27.21	11.24	9.1	H	20.34	0.108	Standard
1753.75	-27.41	10.86	9.1	V	19.96	0.099	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 AWS CDMA Radiated Spurious & Harmonic measurement

Field Strength of SPURIOUS Radiation

Operating Frequency : 1711.25 MHz(Low), 1732.50 MHz(Middle), 1753.75MHz(High)

Measured Output Power : 20.55 dBm = 2.183 W

Modulation Signal : AWS

Limit : 43 + 10log$_{10}$(P) = 33.55dBc

■**Result**

Channel	Harmonic	Frequency (MHz)	From EUT Tested level (dBm)	POL (H/V)	Result (dBc)
25	2	3422.50	-67.71	H	63.51
	3	5133.75	-68.38	H	58.41
	4	6845	-64.81	H	51.58
	5	8556.25	-	-	-
	6	10267.50	-	-	-
	7	11978.75	-	-	-
450	2	3456.00	-66.44	H	62.79
	3	5197.50	-68.80	H	59.23
	4	6930.00	-64.43	H	49.88
	5	8662.50	-	-	-
	6	10395.00	-	-	-
	7	12127.50	-	-	-
875	2	3507.50	-68.13	H	63.61
	3	5261.25	-67.55	V	59.10
	4	7015.00	-67.87	H	54.75
	5	8768.75	-	-	-
	6	10522.50	-	-	-
	7	12276.25	-	-	-

NOTE :

1. “-” Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. The spectrum is measured from 30MHz to the 10th harmonic and All modes of operation were investigated, and the worst-case results are reported..

Radiated Spurious Emission measurements at 3 meters by Substitution Method

6.3 AWS Radiated Spurious & Harmonic Conversion Table

① Tx Cable loss
② Tx Horn Ant Gain
③ Tx Level to radiate -13dBm
④ ESI Level received from Tx with-13dBm
⑤ Tested Level from EUT
⑥ = EIRP - (-13 + ⑤ - ④)

Date : March 2, 2012

Test Engineer : HK LEE

CH	Har	Frequency (MHz)	① Tx C/L dB	②Tx Horn Gain dBi	③Tx Level dBm	④ ESI Level : H dBm	④ ESI Level : V dBm	⑤Tested EUT Level : H dBm	⑤Tested EUT Level : V dBm	⑥ Result EUT : H (dBc)	⑥ Result EUT : V (dBc)
25	2	3422.50	-12.76	12.60	-12.80	-37.75	-37.28	-67.71	-67.95	63.51	64.22
	3	5133.75	-16.21	12.60	-9.40	-43.52	-42.75	-68.38	-67.98	58.41	58.78
	4	6845	-19.42	11.50	-5.10	-46.78	-45.71	-64.81	-64.76	51.58	52.60
	5	8556.25	-21.25	11.00	-2.80	-50.98	-49.35	-	-	-	-
	6	10267.50	-25.11	11.60	0.50	-55.19	-53.03	-	-	-	-
	7	11978.75	-27.10	14.00	0.10	-58.16	-55.90	-	-	-	-
450	2	3456.00	-12.81	12.60	-12.80	-37.20	-37.10	-66.44	-67.04	62.79	63.49
	3	5197.50	-16.54	12.60	-9.10	-43.12	-42.37	-68.80	-68.49	59.23	59.67
	4	6930.00	-19.02	11.50	-5.50	-48.10	-46.15	-64.43	-64.32	49.88	51.72
	5	8662.50	-21.65	11.00	-2.40	-51.28	-50.04	-	-	-	-
	6	10395.00	-25.21	11.60	0.60	-54.60	-52.55	-	-	-	-
	7	12127.50	-27.45	14.00	0.40	-58.34	-55.66	-	-	-	-
875	2	3507.50	-12.83	12.60	-12.80	-38.07	-37.31	-68.13	-68.16	63.61	64.40
	3	5261.25	-16.27	12.60	-9.30	-42.63	-42.00	-68.28	-67.55	59.20	59.10
	4	7015.00	-19.58	11.50	-4.90	-46.67	-45.79	-67.87	-68.21	54.75	55.97
	5	8768.75	-22.34	11.00	-1.70	-50.77	-49.35	-	-	-	-
	6	10522.50	-25.16	11.60	0.60	-55.08	-53.22	-	-	-	-
	7	12276.25	-27.30	14.00	0.30	-58.75	-55.80	-	-	-	-

6.4 Frequency Stability

6.4.1 AWS Frequency Stability Table

Operating Frequency : 1,732,500,000 Hz

Channel : 450

Reference Voltage : 3.7VDC

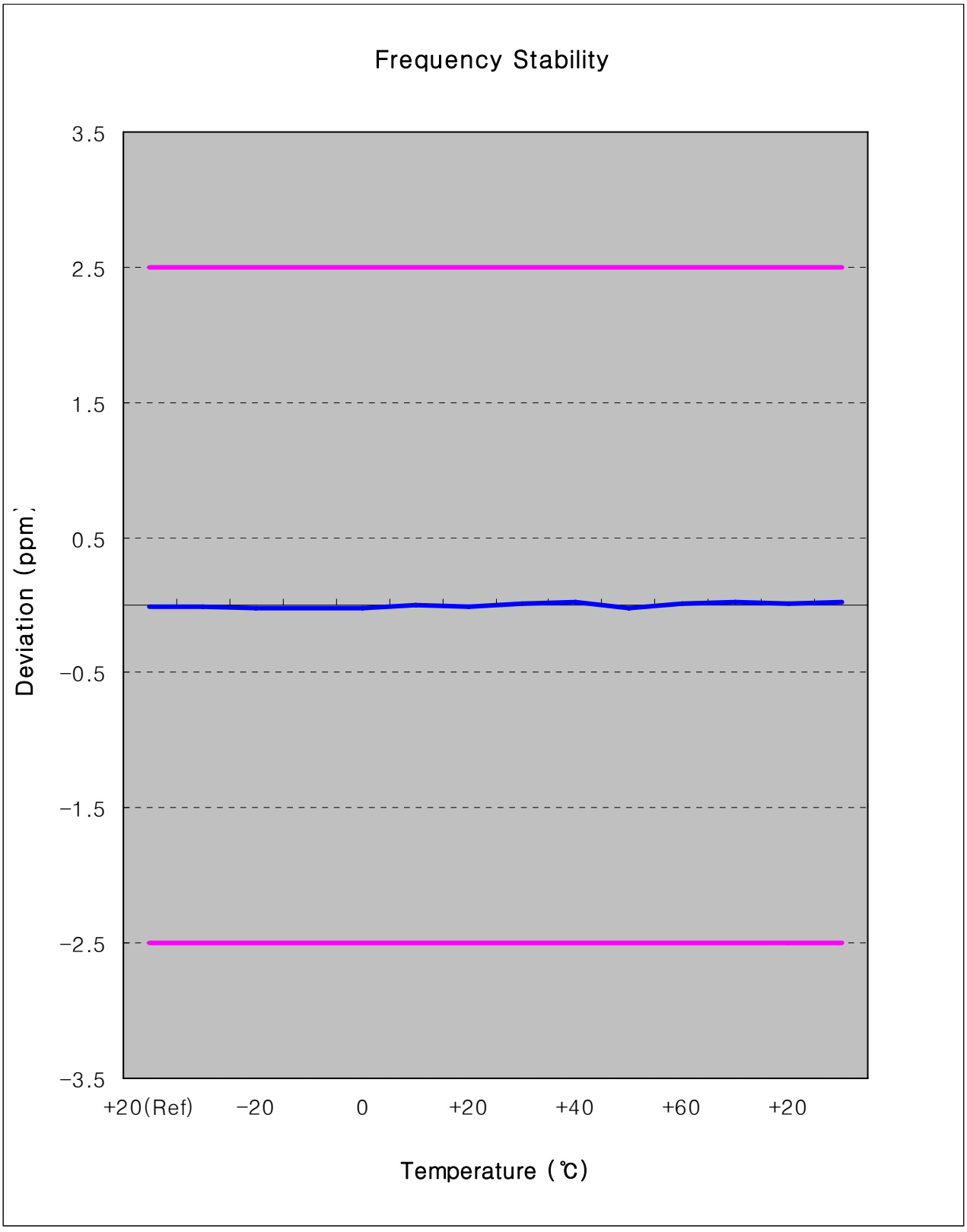
Deviation Limit : ±0.00025 % or 2.5ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency Error (Hz)	Frequency (Hz)	Deviation (%)	ppm
100%	3.70	+20(Ref)	38.20	1,732,500,000	0.000002	0.020
100%		-30	-39.60	1,732,500,000	-0.000002	-0.021
100%		-20	49.80	1,732,500,000	0.000003	0.026
100%		-10	31.50	1,732,500,000	0.000002	0.017
100%		0	2.70	1,732,500,000	0.000000	0.001
100%		+10	-28.60	1,732,500,000	-0.000002	-0.015
100%		+20	38.20	1,732,500,000	0.000002	0.020
100%		+30	-47.60	1,732,500,000	-0.000003	-0.025
100%		+40	23.90	1,732,500,000	0.000001	0.013
100%		+50	40.50	1,732,500,000	0.000002	0.022
100%		+60	36.90	1,732,500,000	0.000002	0.020
115%	4.26	+20	-6.20	1,732,500,000	0.000000	-0.003
Batt. Endpoint	3.35	+20	-2.40	1,732,500,000	0.000000	-0.001

Note : The temperature is varied from -30 °C to +50 °C using an environmental chamber.

The EUT is tested down to the battery end point

6.4.2 AWS Frequency Stability Graph



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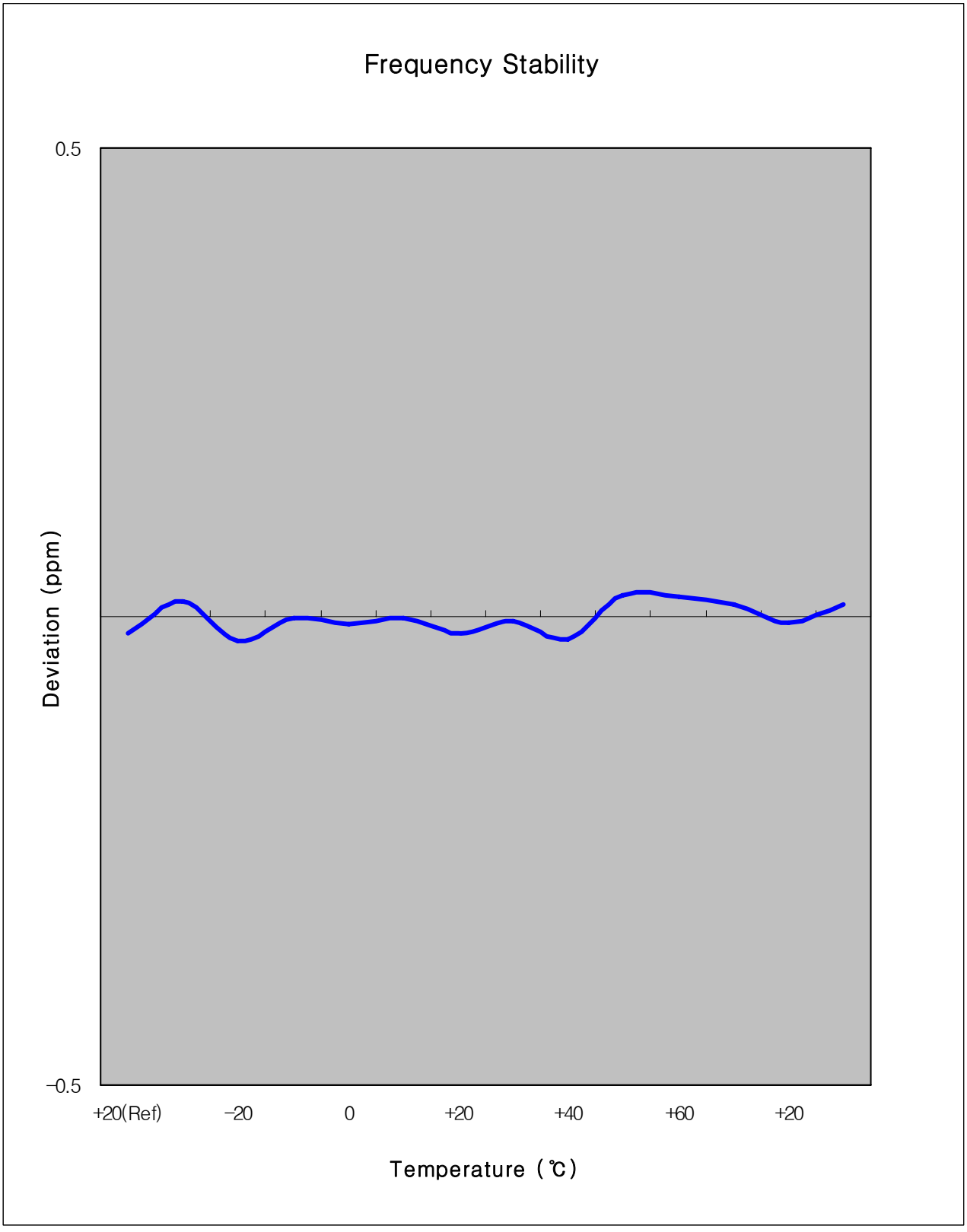
Zoom In



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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)

– End of page –

8. CONCLUSION

The data collected shows that the SAMSUNG Cellular/AWS/PCS CDMA Phone with Bluetooth. FCC ID : A3LSCHR390 complies with all the requirements of Parts 2, 27 of the FCC Rules.

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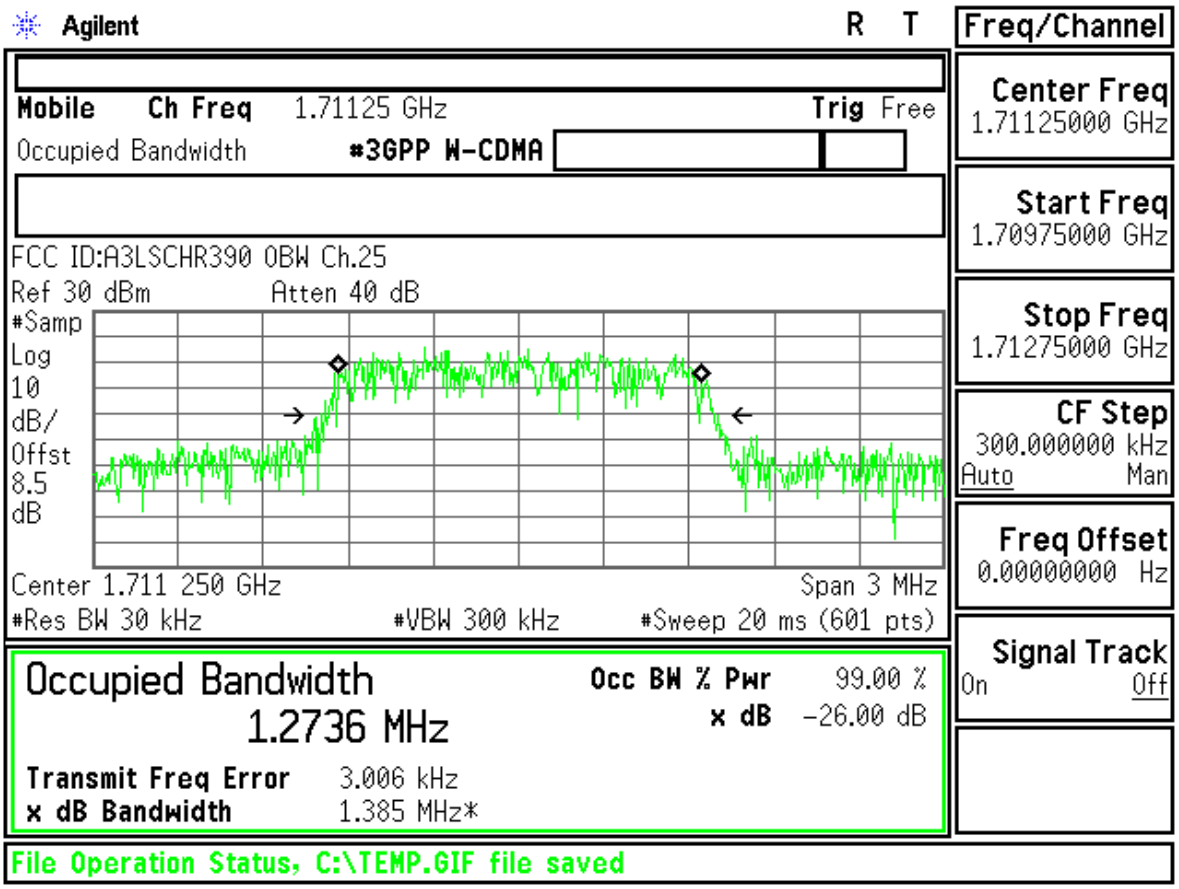
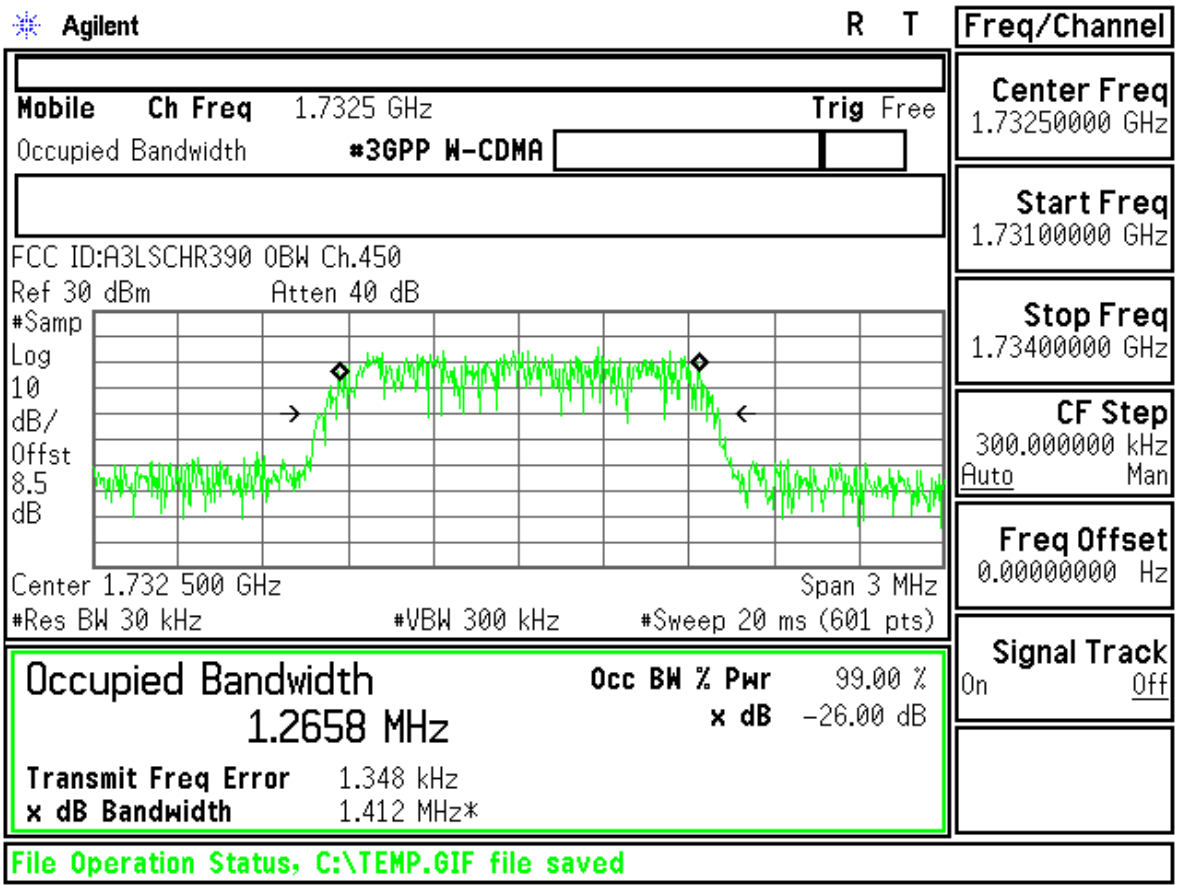
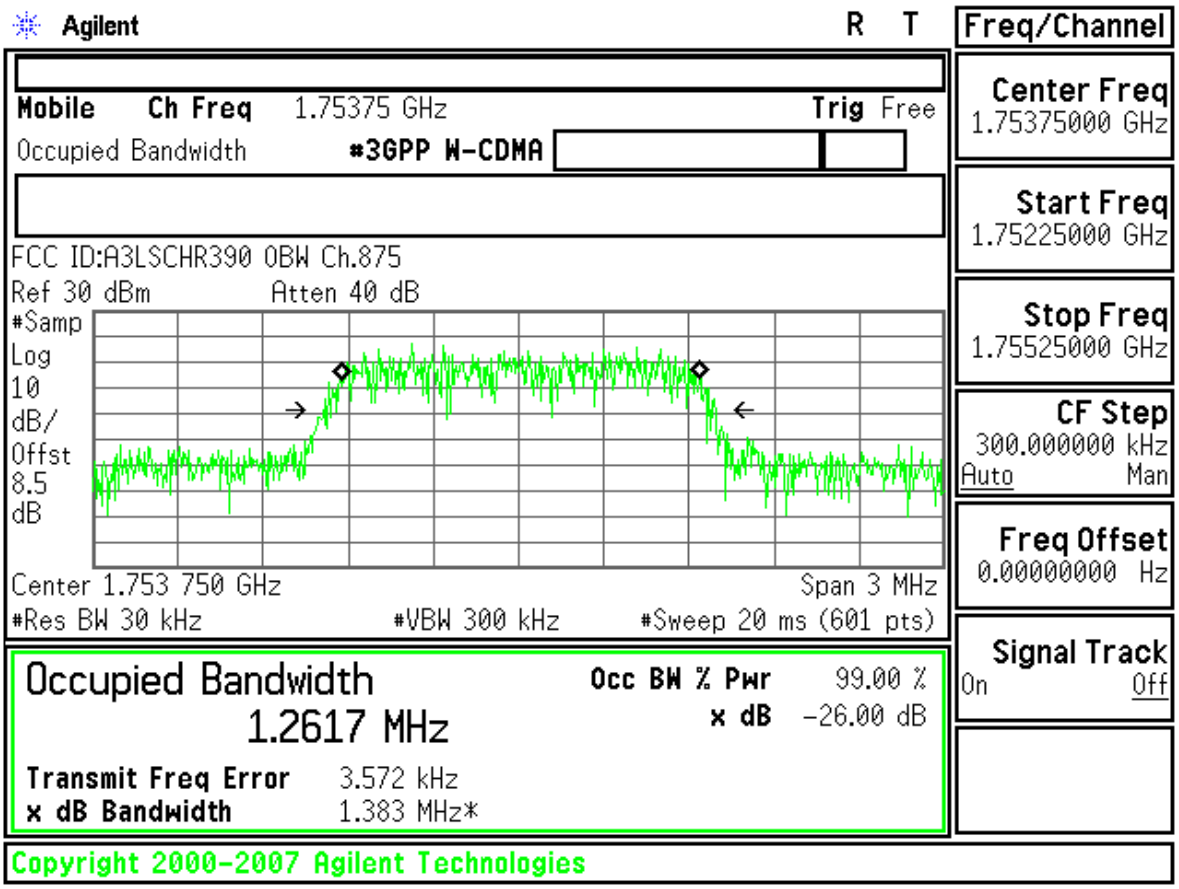
9. TEST PLOTS

A3LSCHR390AWS






Agilent
R T
Freq/Channel
Mobile Ch Freq 1.75375 GHz
Trig Free
Occupied Bandwidth
#3GPP W-CDMA
FCC ID:A3LSCHR390 OBW Ch.875
Ref 30 dBm
Atten 40 dB
#Samp
Log
10
dB/
Offst
8.5
dB
Center 1.753 750 GHz
Span 3 MHz
#Res BW 30 kHz
#VBW 300 kHz
#Sweep 20 ms (601 pts)
Occupied Bandwidth
1.2617 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error 3.572 kHz
x dB Bandwidth 1.383 MHz*
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Start Freq
1.75225000 GHz
Stop Freq
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Signal Track
On Off
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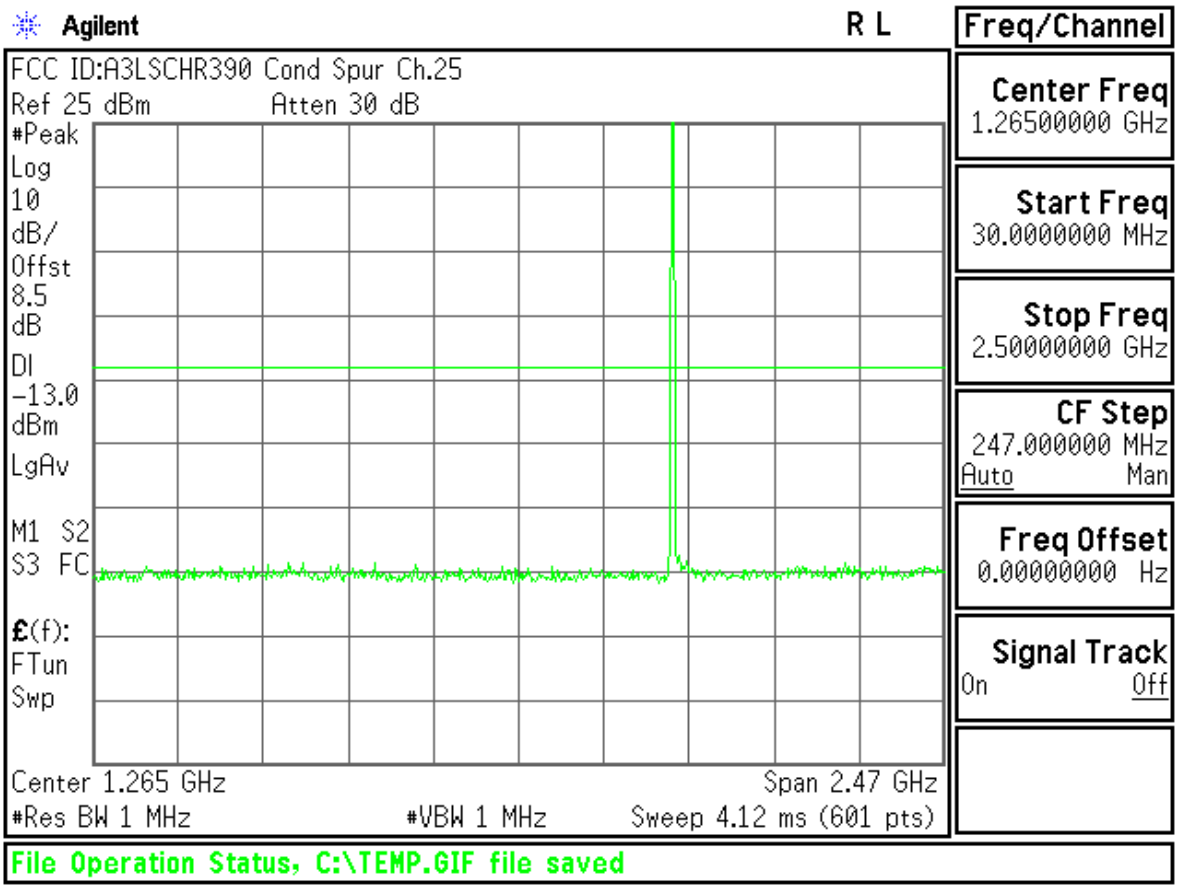
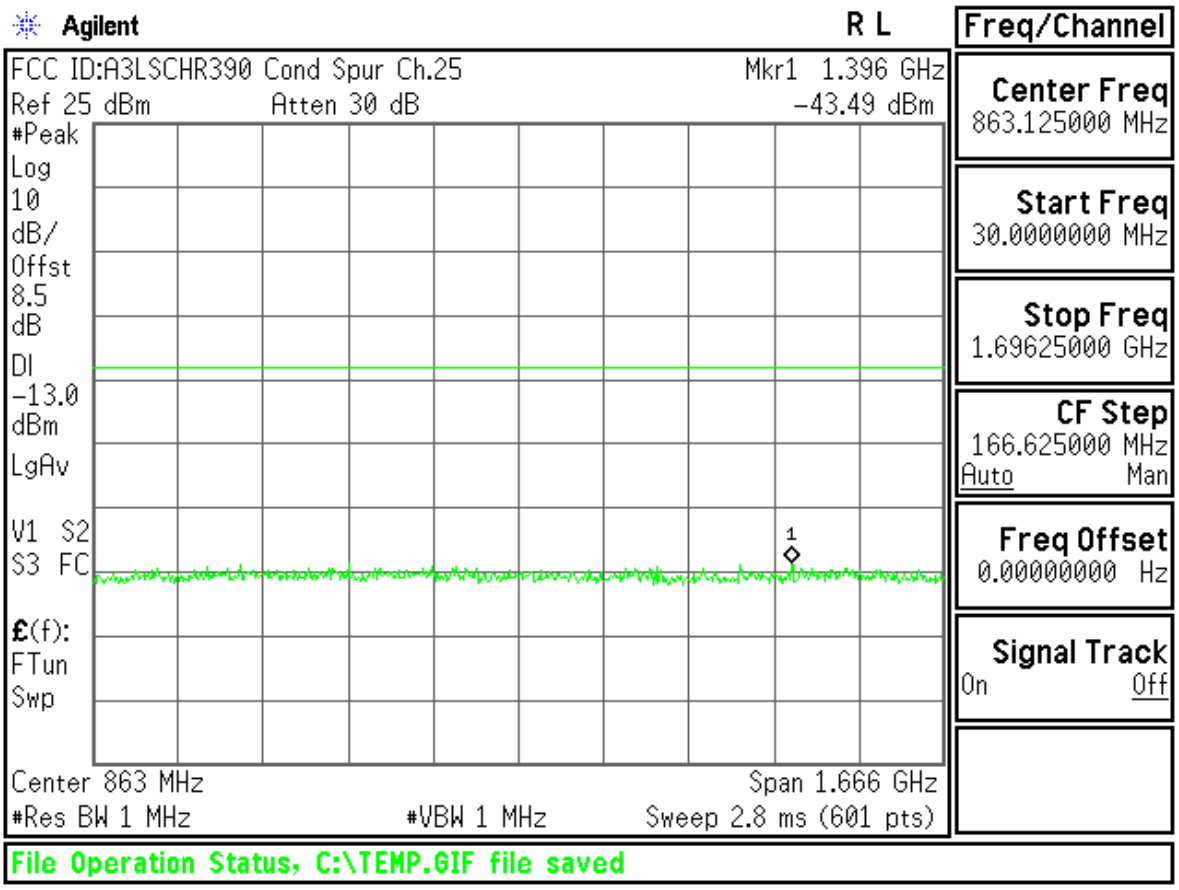
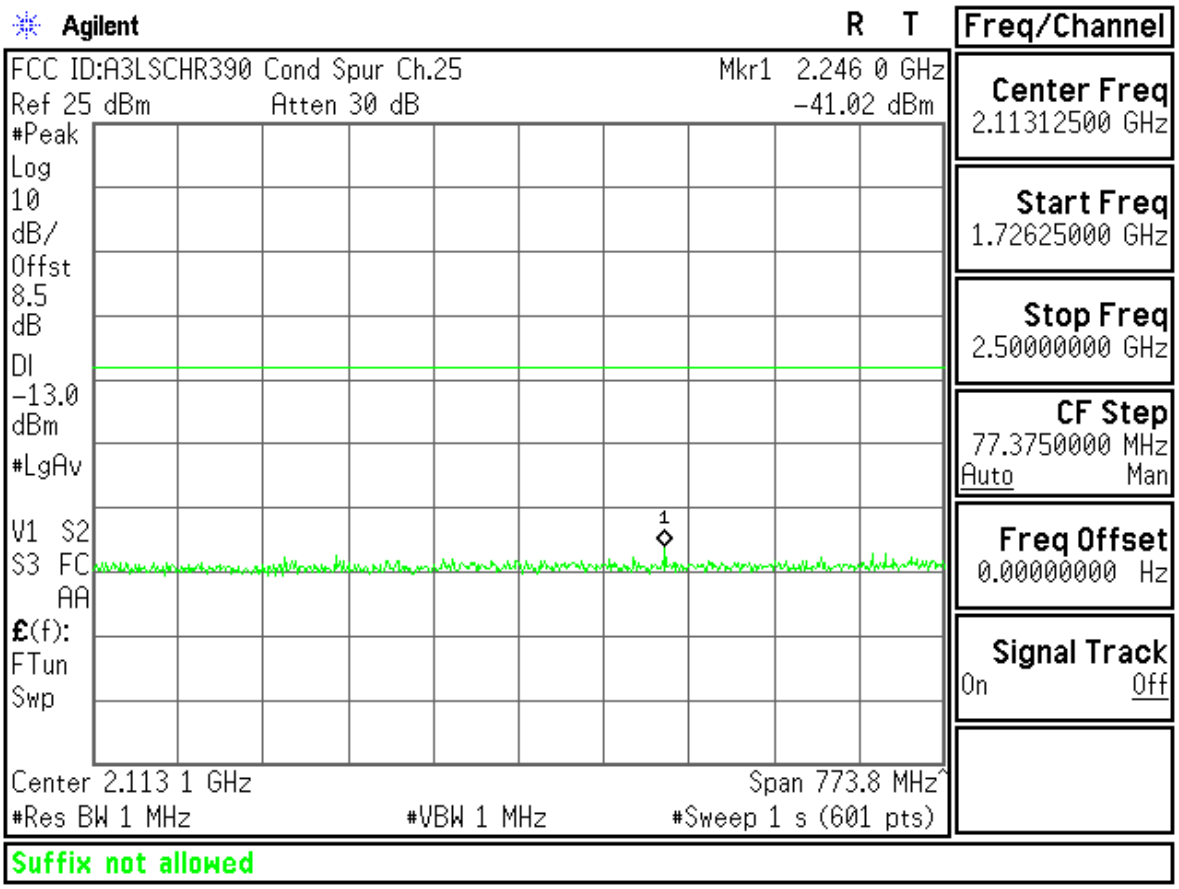
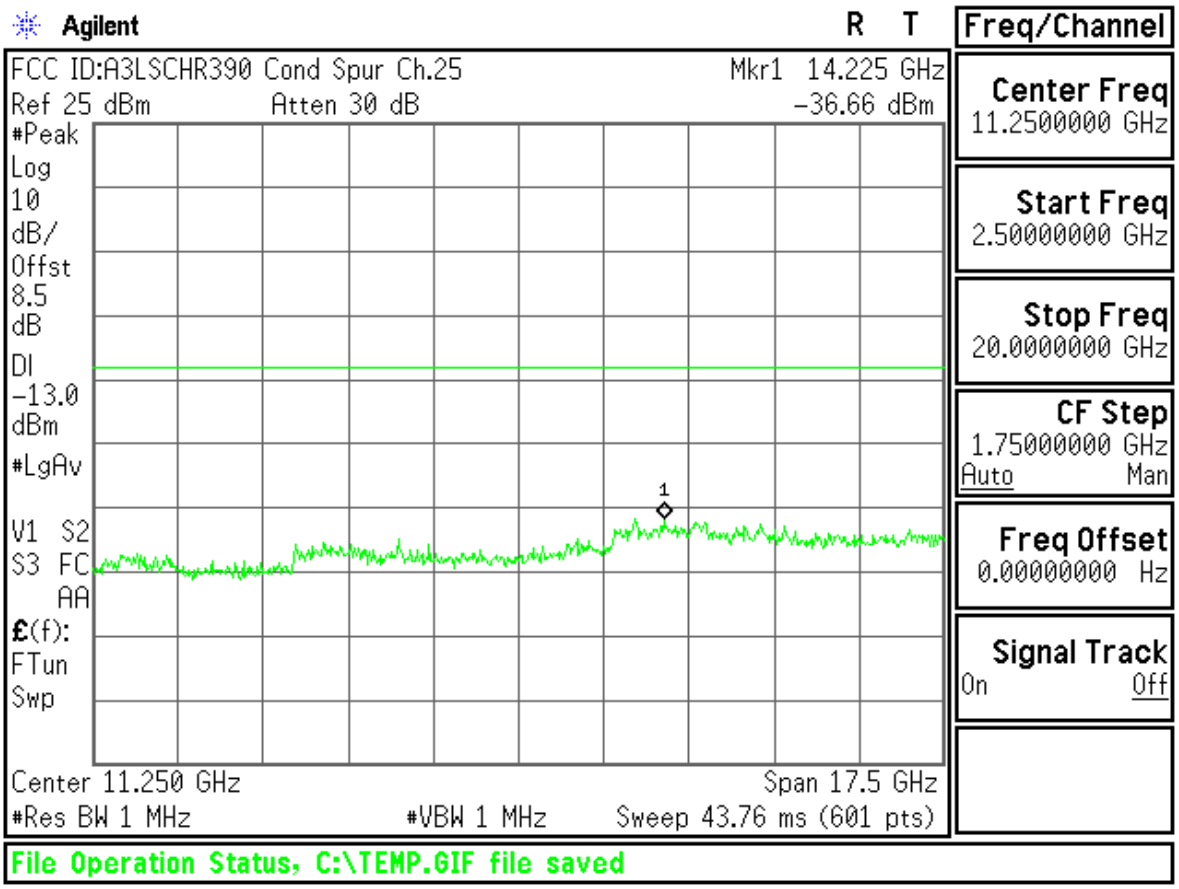
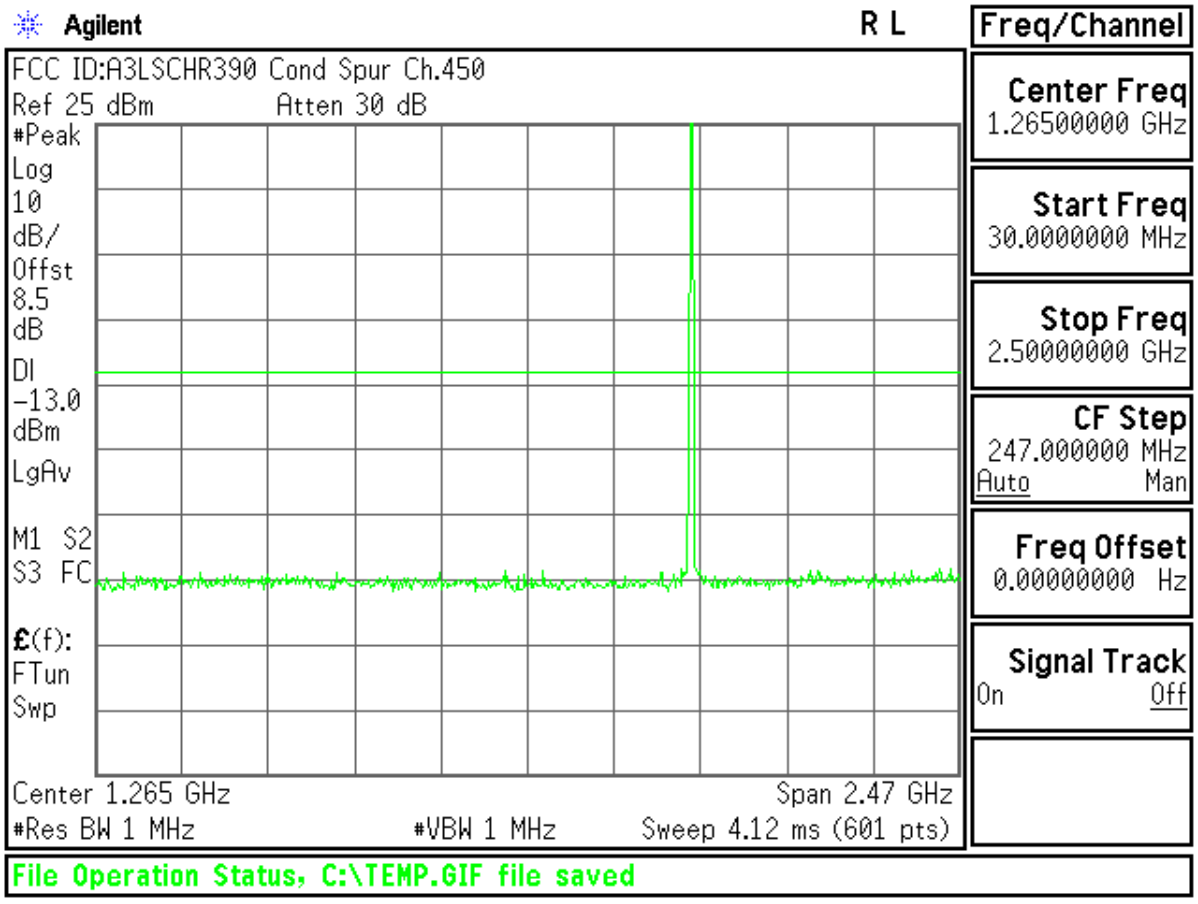
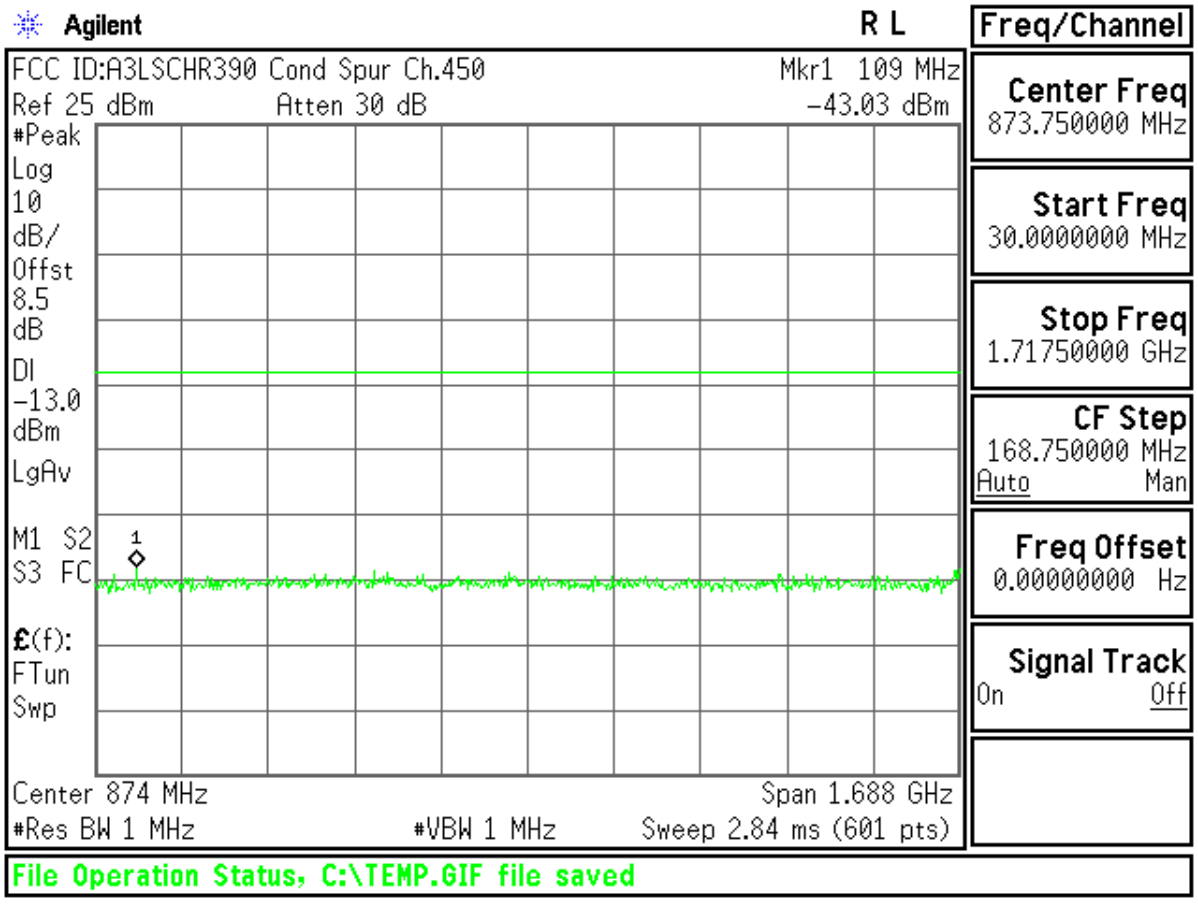

Agilent
R L
Freq/Channel
FCC ID:A3LSCHR390 Cond Spur Ch.25
Ref 25 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
8.5
dB
Dl
-13.0
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Center 1.265 GHz
Span 2.47 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 4.12 ms (601 pts)
Center Freq
1.26500000 GHz
Start Freq
30.0000000 MHz
Stop Freq
2.50000000 GHz
CF Step
247.000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:\TEMP.GIF file saved

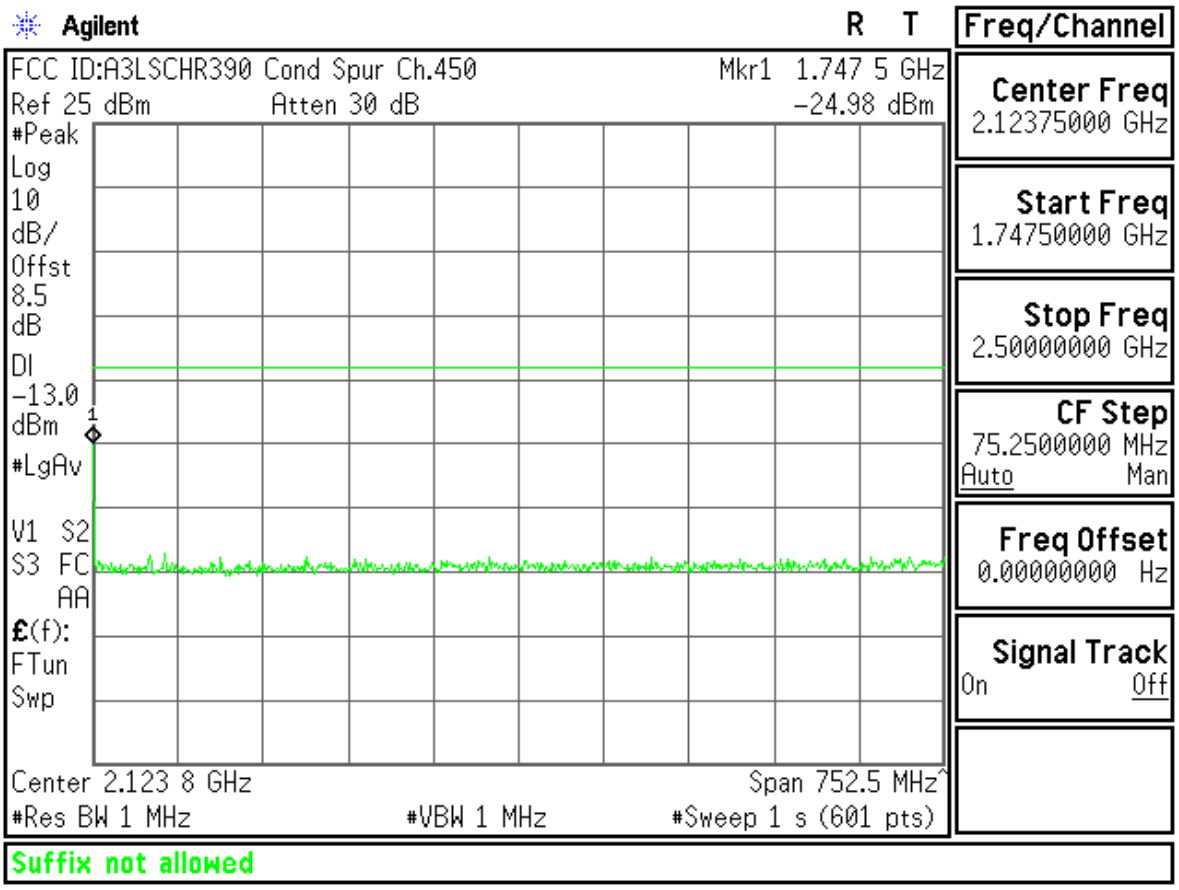

Agilent
R L
Freq/Channel
FCC ID:A3LSCHR390 Cond Spur Ch.25
Mkr1 1.396 GHz
Ref 25 dBm
Atten 30 dB
-43.49 dBm
#Peak
Log
10
dB/
Offst
8.5
dB
Dl
-13.0
dBm
LgAv
V1 S2
S3 FC
£(f):
FTun
Swp
Center 863 MHz
Span 1.666 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 2.8 ms (601 pts)
Center Freq
863.125000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.69625000 GHz
CF Step
166.625000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:\TEMP.GIF file saved

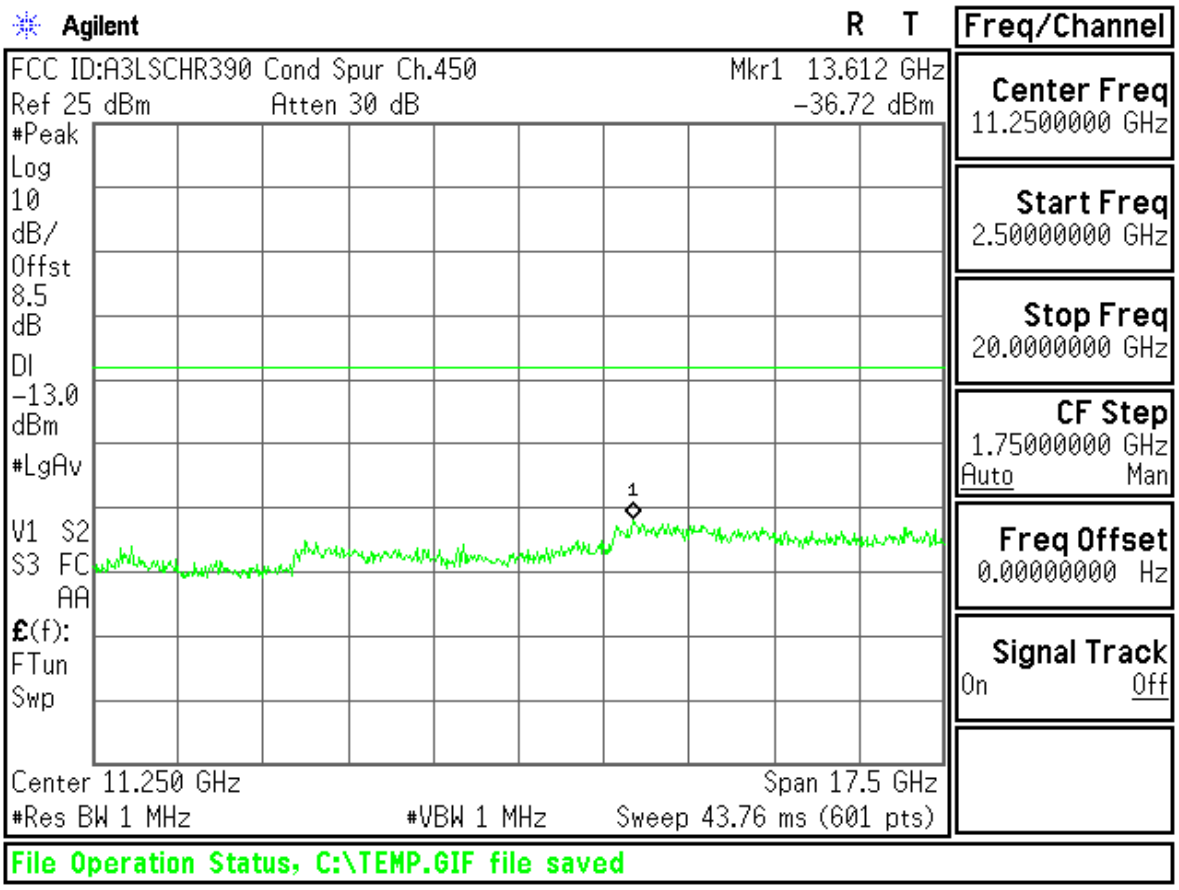

Agilent
R T
Freq/Channel
FCC ID:A3LSCHR390 Cond Spur Ch.25
Mkr1 2.246 0 GHz
Ref 25 dBm
Atten 30 dB
-41.02 dBm
#Peak
Log
10
dB/
Offst
8.5
dB
Dl
-13.0
dBm
#LgAv
V1 S2
S3 FC
AA
£(f):
FTun
Swp
Center 2.113 1 GHz
Span 773.8 MHz
#Res BW 1 MHz
#VBW 1 MHz
#Sweep 1 s (601 pts)
Center Freq
2.11312500 GHz
Start Freq
1.72625000 GHz
Stop Freq
2.50000000 GHz
CF Step
77.3750000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Suffix not allowed

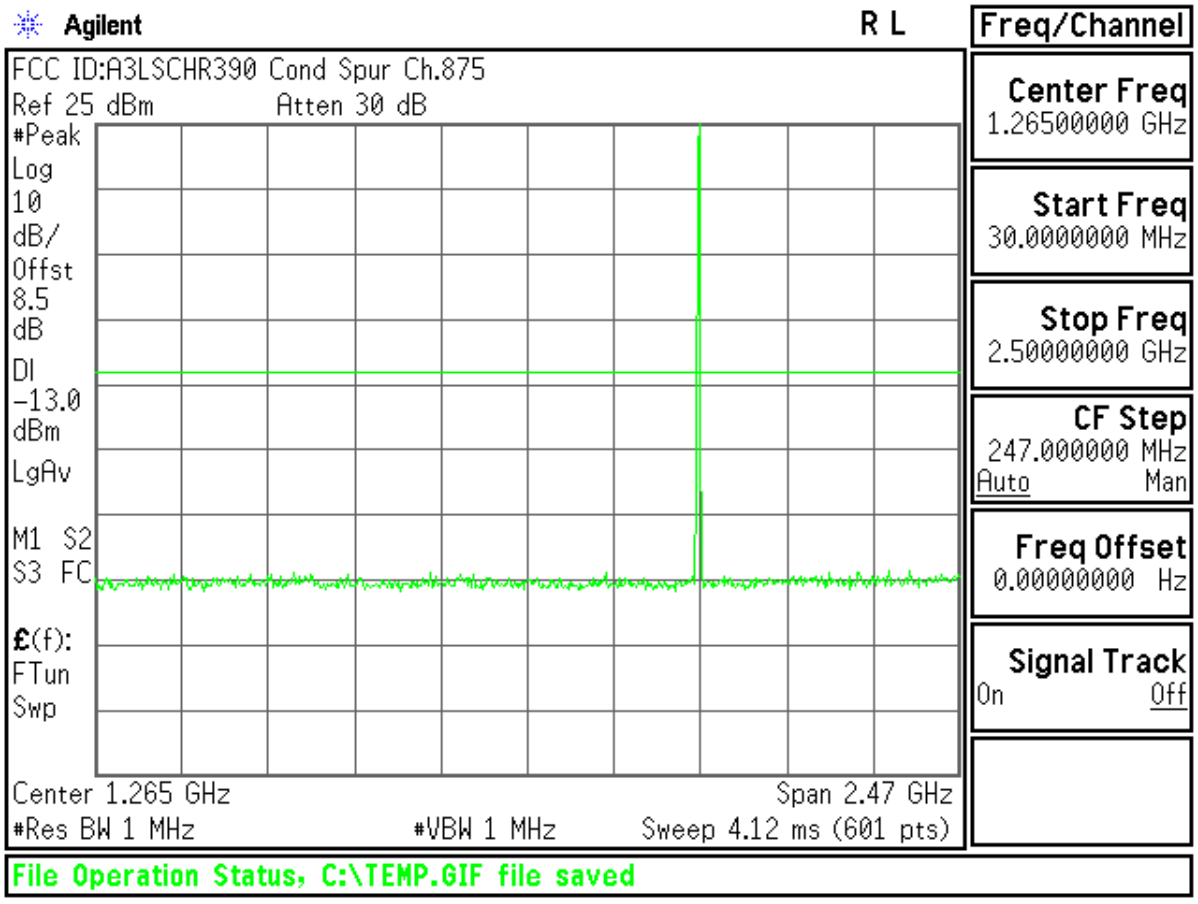

Agilent
R T
Freq/Channel
FCC ID:A3LSCHR390 Cond Spur Ch.25
Mkr1 14.225 GHz
Ref 25 dBm
Atten 30 dB
-36.66 dBm
#Peak
Log
10
dB/
Offst
8.5
dB
Dl
-13.0
dBm
#LgAv
V1 S2
S3 FC
AA
£(f):
FTun
Swp
Center 11.250 GHz
Span 17.5 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 43.76 ms (601 pts)
Center Freq
11.2500000 GHz
Start Freq
2.50000000 GHz
Stop Freq
20.0000000 GHz
CF Step
1.75000000 GHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:\TEMP.GIF file saved

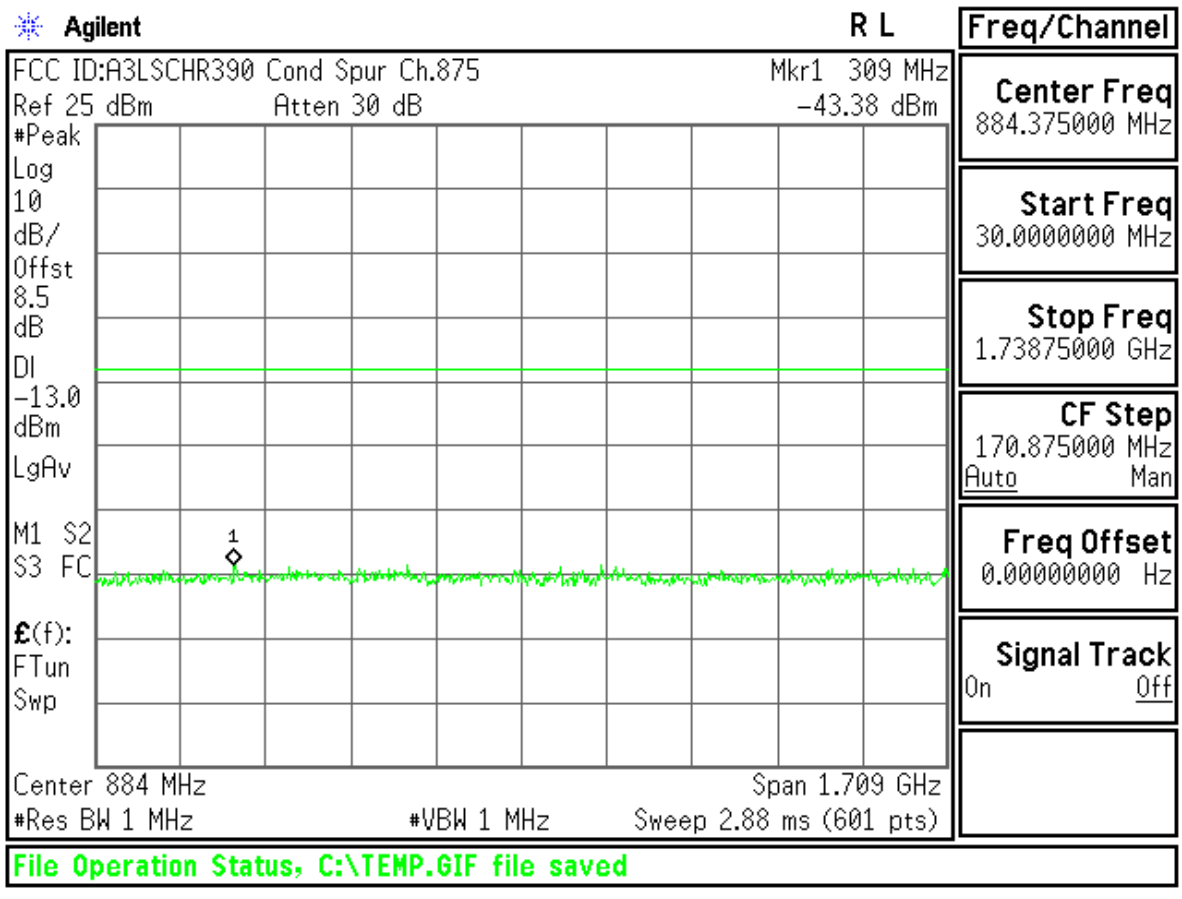

Agilent
R L
FCC ID:A3LSCHR390 Cond Spur Ch.450
Ref 25 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
8.5
dB
Dl
-13.0
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Center 1.265 GHz
Span 2.47 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 4.12 ms (601 pts)
Freq/Channel
Center Freq
1.26500000 GHz
Start Freq
30.0000000 MHz
Stop Freq
2.50000000 GHz
CF Step
247.000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:\TEMP.GIF file saved

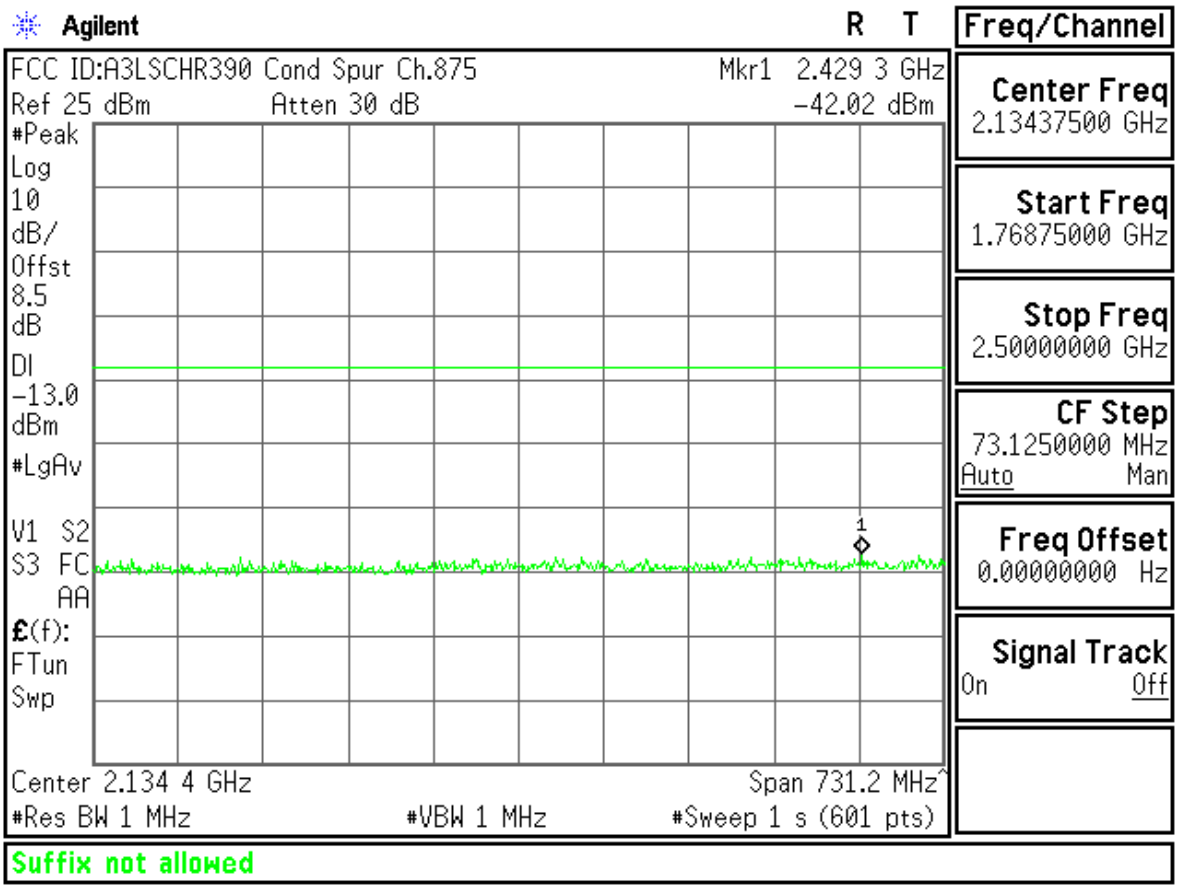

Agilent
R L
FCC ID:A3LSCHR390 Cond Spur Ch.450
Mkr1 109 MHz
Ref 25 dBm
Atten 30 dB
-43.03 dBm
#Peak
Log
10
dB/
Offst
8.5
dB
Dl
-13.0
dBm
LgAv
M1 S2
S3 FC
1
£(f):
FTun
Swp
Center 874 MHz
Span 1.688 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 2.84 ms (601 pts)
Freq/Channel
Center Freq
873.750000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.71750000 GHz
CF Step
168.750000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:\TEMP.GIF file saved

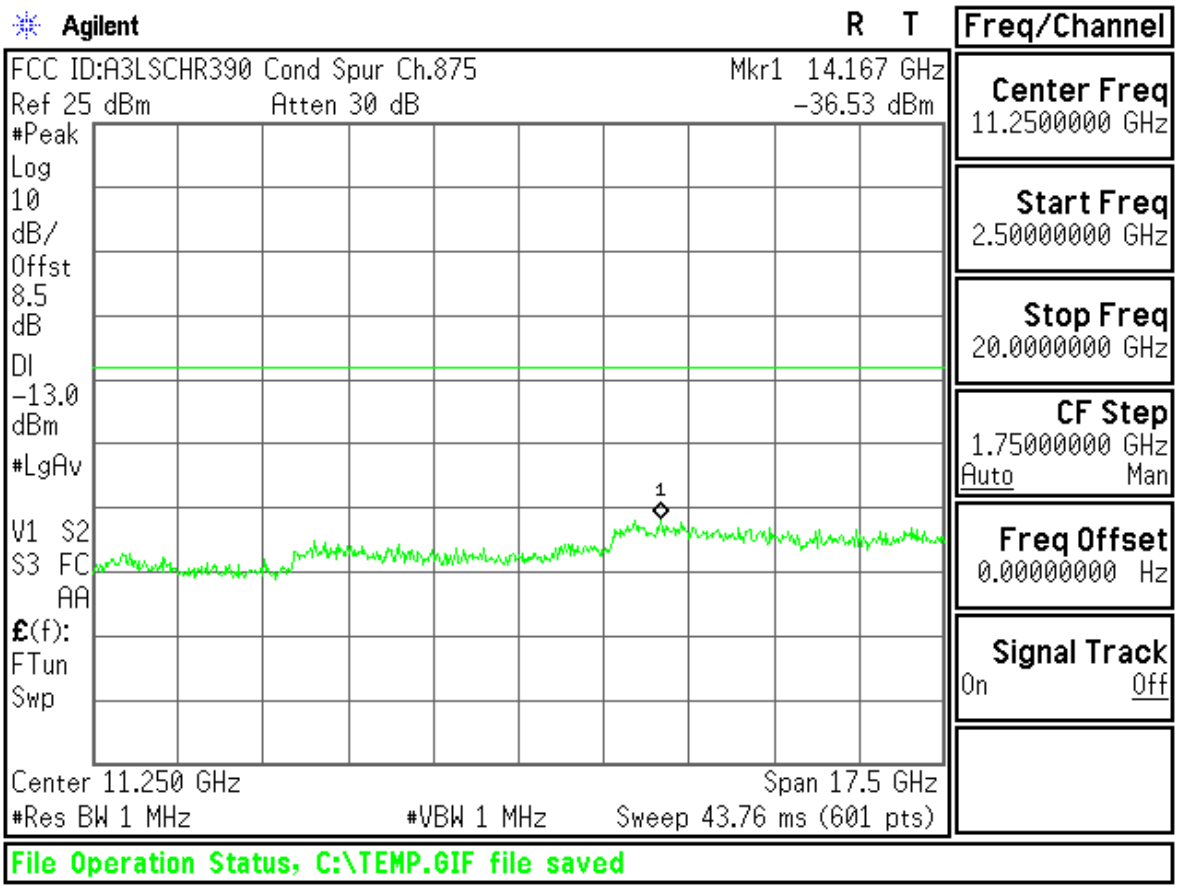

Agilent
R T
FCC ID:A3LSCHR390 Cond Spur Ch.450
Mkr1 1.747 5 GHz
Ref 25 dBm
Atten 30 dB
-24.98 dBm
#Peak
Log
10
dB/
Offst
8.5
dB
Dl
-13.0
dBm
#LgAv
V1 S2
S3 FC
AA
£(f):
FTun
Swp
Center 2.123 8 GHz
Span 752.5 MHz
#Res BW 1 MHz
#VBW 1 MHz
#Sweep 1 s (601 pts)
Freq/Channel
Center Freq
2.12375000 GHz
Start Freq
1.74750000 GHz
Stop Freq
2.50000000 GHz
CF Step
75.2500000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Suffix not allowed

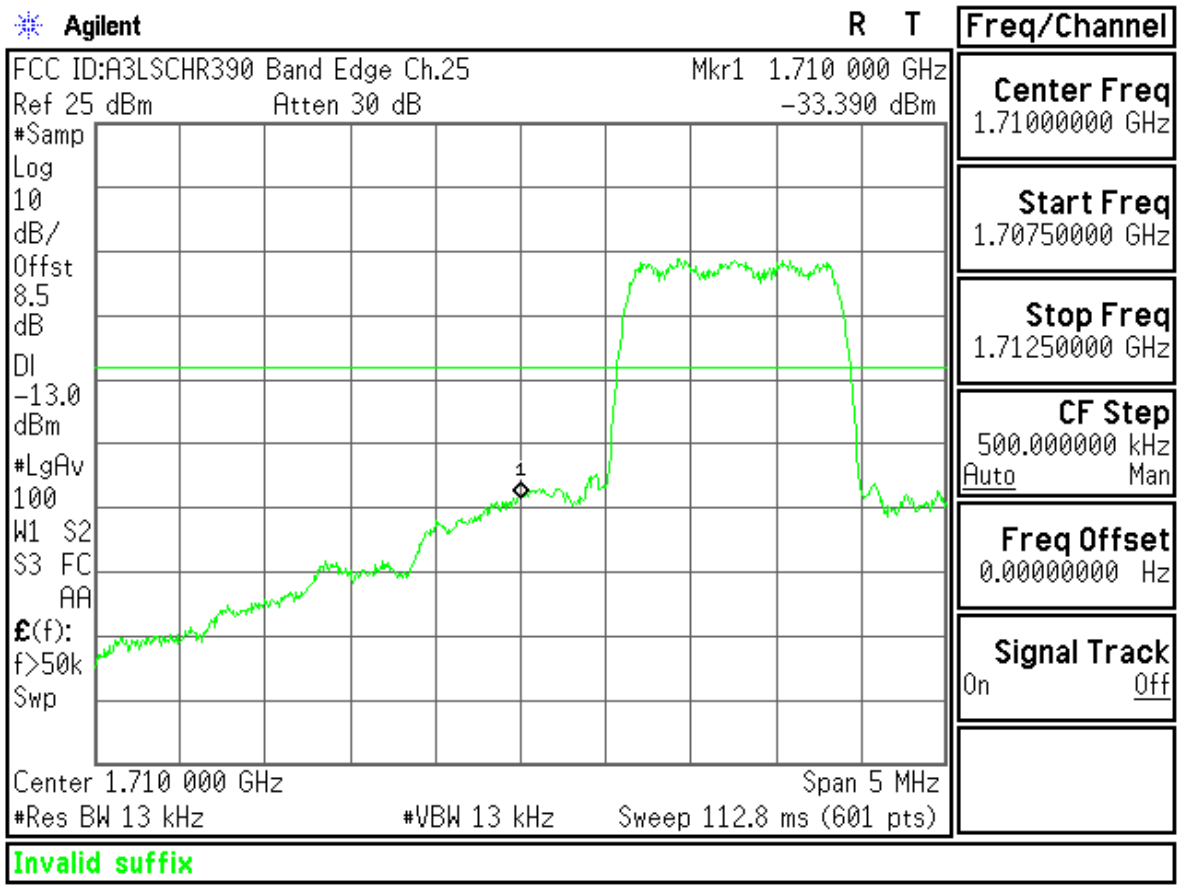

Agilent
R T
FCC ID:A3LSCHR390 Cond Spur Ch.450
Mkr1 13.612 GHz
Ref 25 dBm
Atten 30 dB
-36.72 dBm
#Peak
Log
10
dB/
Offst
8.5
dB
Dl
-13.0
dBm
#LgAv
V1 S2
S3 FC
AA
£(f):
FTun
Swp
Center 11.250 GHz
Span 17.5 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 43.76 ms (601 pts)
Freq/Channel
Center Freq
11.2500000 GHz
Start Freq
2.50000000 GHz
Stop Freq
20.0000000 GHz
CF Step
1.75000000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:\TEMP.GIF file saved

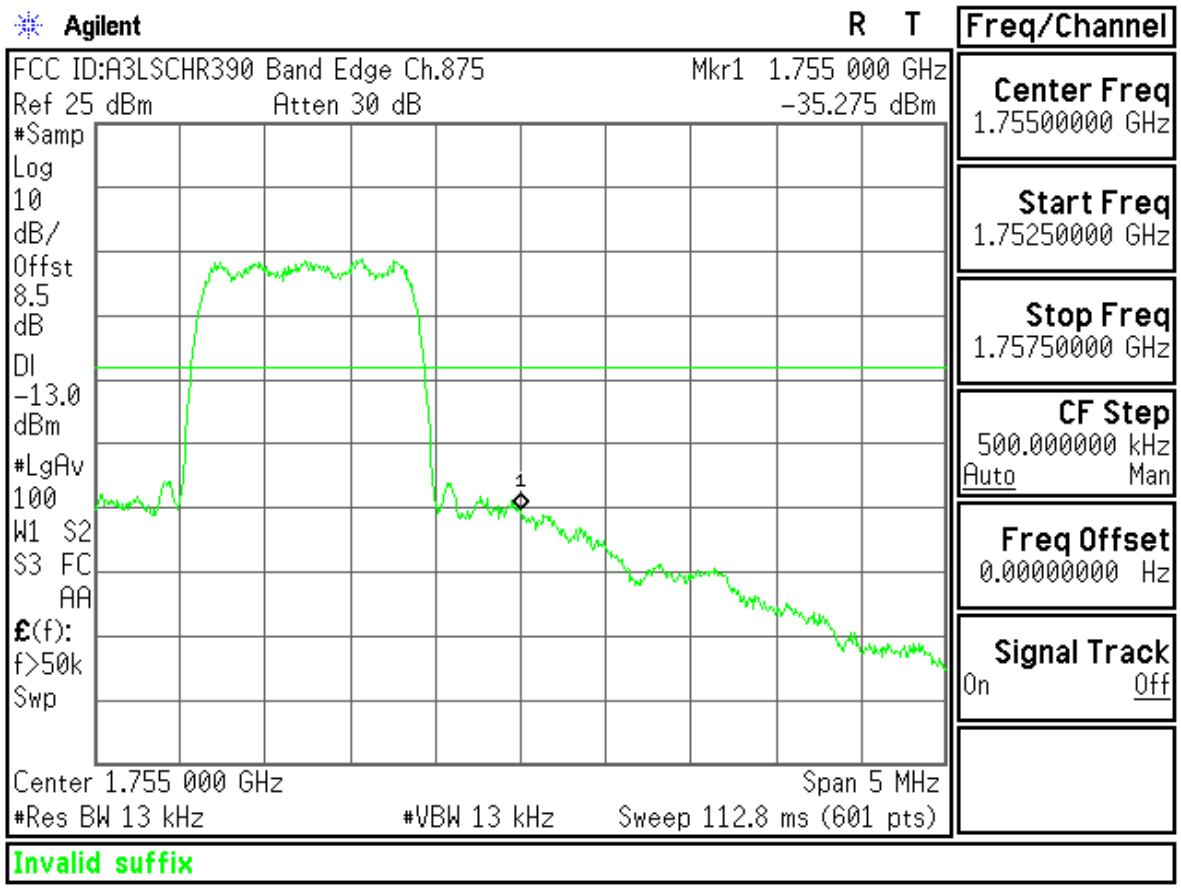

Agilent
R L
FCC ID:A3LSCHR390 Cond Spur Ch.875
Ref 25 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
8.5
dB
Dl
-13.0
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Center 1.265 GHz
Span 2.47 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 4.12 ms (601 pts)
Freq/Channel
Center Freq
1.26500000 GHz
Start Freq
30.0000000 MHz
Stop Freq
2.50000000 GHz
CF Step
247.000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:\TEMP.GIF file saved

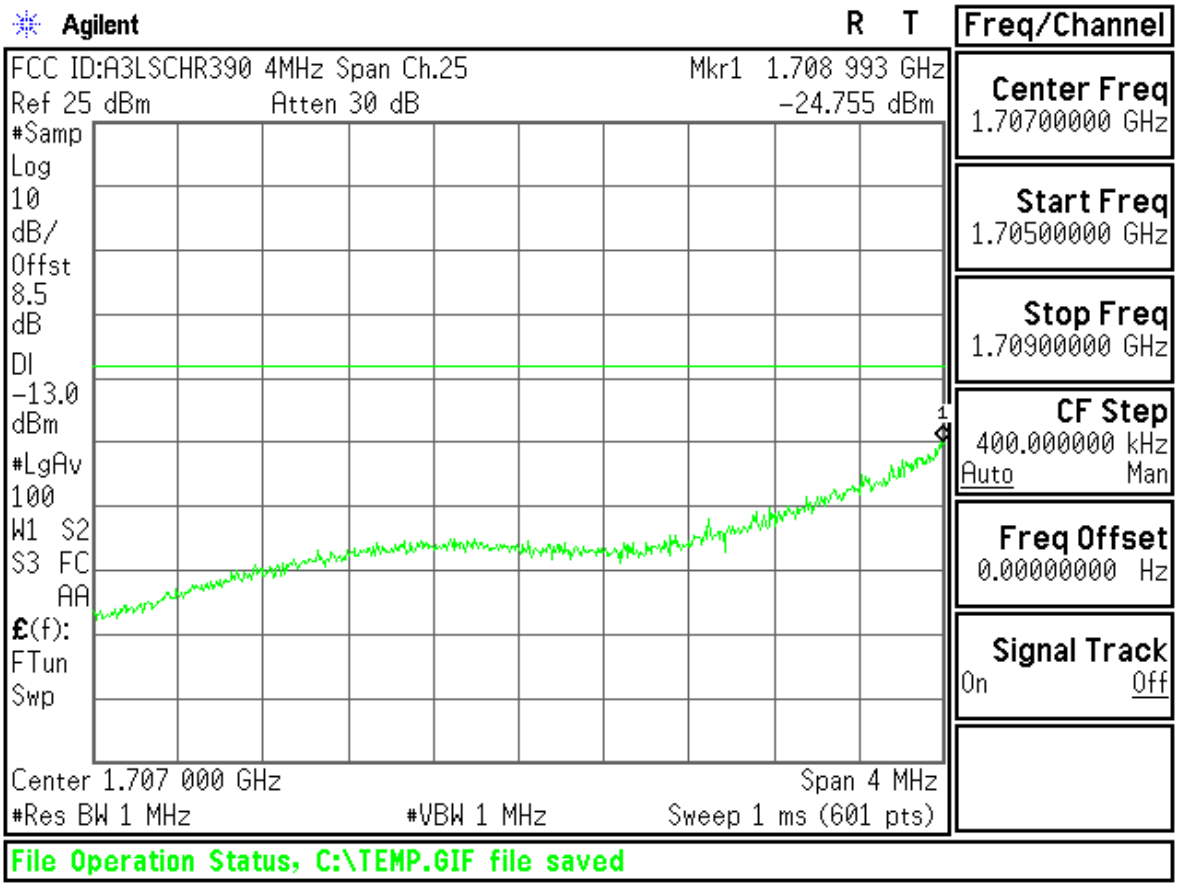

Agilent
R L
FCC ID:A3LSCHR390 Cond Spur Ch.875
Mkr1 309 MHz
Ref 25 dBm
Atten 30 dB
-43.38 dBm
#Peak
Log
10
dB/
Offst
8.5
dB
Dl
-13.0
dBm
LgAv
M1 S2
S3 FC
1
£(f):
FTun
Swp
Center 884 MHz
Span 1.709 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 2.88 ms (601 pts)
Freq/Channel
Center Freq
884.375000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.73875000 GHz
CF Step
170.875000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:\TEMP.GIF file saved

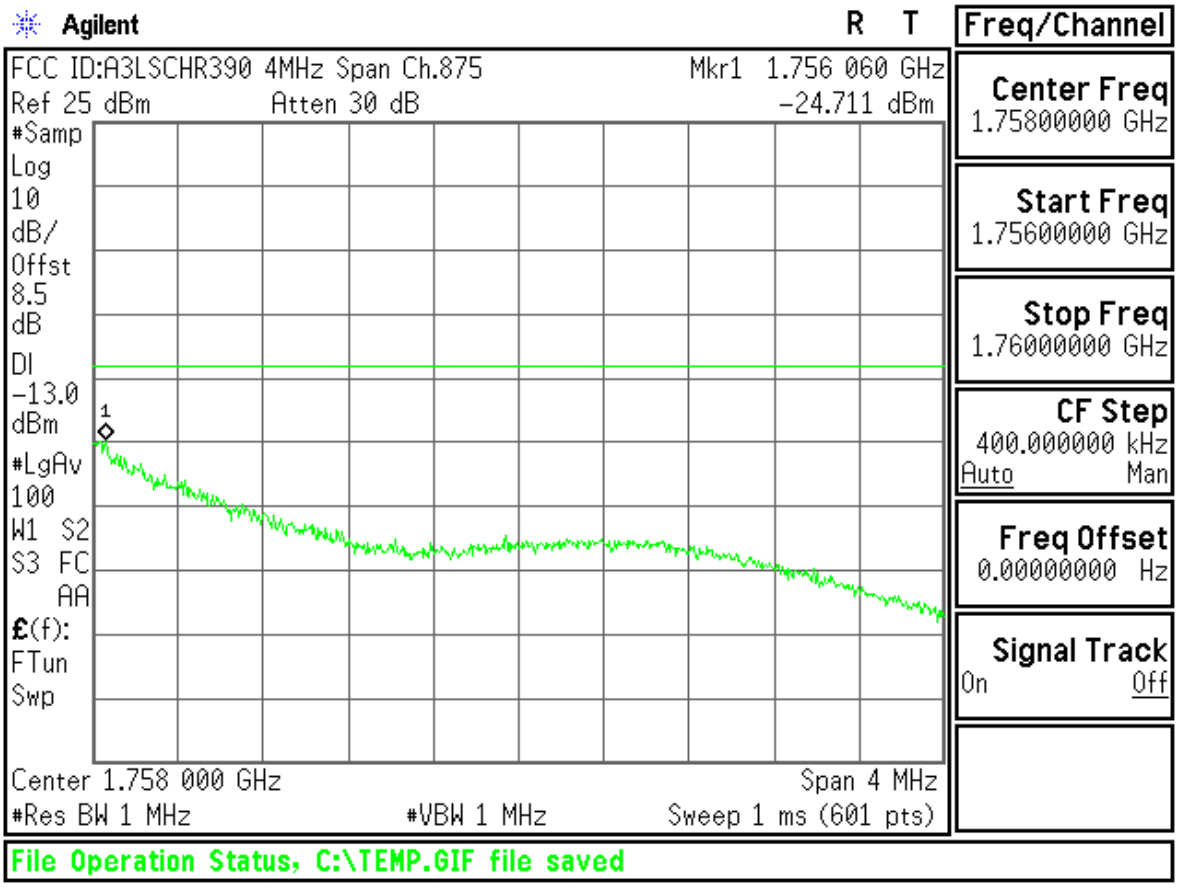

Agilent
R T
FCC ID:A3LSCHR390 Cond Spur Ch.875
Mkr1 2.429 3 GHz
Ref 25 dBm
Atten 30 dB
-42.02 dBm
#Peak
Log
10
dB/
Offst
8.5
dB
Dl
-13.0
dBm
#LgAv
V1 S2
S3 FC
AA
£(f):
FTun
Swp
Center 2.134 4 GHz
Span 731.2 MHz
#Res BW 1 MHz
#VBW 1 MHz
#Sweep 1 s (601 pts)
Freq/Channel
Center Freq
2.13437500 GHz
Start Freq
1.76875000 GHz
Stop Freq
2.50000000 GHz
CF Step
73.1250000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Suffix not allowed

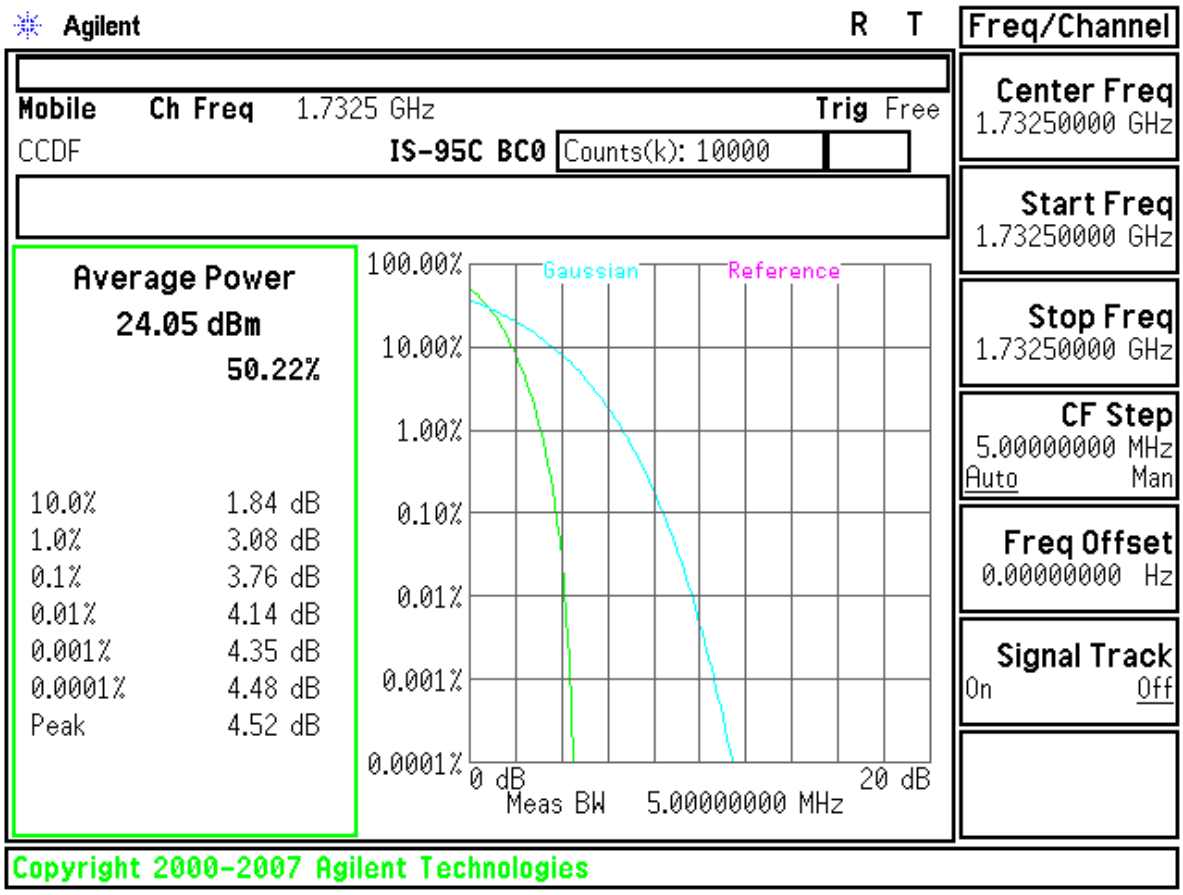

Agilent
R T
FCC ID:A3LSCHR390 Cond Spur Ch.875
Mkr1 14.167 GHz
Ref 25 dBm
Atten 30 dB
-36.53 dBm
#Peak
Log
10
dB/
Offst
8.5
dB
Dl
-13.0
dBm
#LgAv
V1 S2
S3 FC
AA
£(f):
FTun
Swp
Center 11.250 GHz
Span 17.5 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 43.76 ms (601 pts)
Freq/Channel
Center Freq
11.2500000 GHz
Start Freq
2.50000000 GHz
Stop Freq
20.0000000 GHz
CF Step
1.75000000 GHz
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:A3LSCHR390 Band Edge Ch.25
Mkr1 1.710 000 GHz
Ref 25 dBm
Atten 30 dB
-33.390 dBm
#Samp
Log
10
dB/
Offst
8.5
dB
Dl
-13.0
dBm
#LgAv
100
W1 S2
S3 FC
AA
£(f):
f>50k
Swp
Center 1.710 000 GHz
Span 5 MHz
#Res BW 13 kHz
#VBW 13 kHz
Sweep 112.8 ms (601 pts)
Center Freq
1.71000000 GHz
Start Freq
1.70750000 GHz
Stop Freq
1.71250000 GHz
CF Step
500.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Invalid suffix


Agilent
R T
Freq/Channel
FCC ID:A3LSCHR390 Band Edge Ch.875
Mkr1 1.755 000 GHz
Ref 25 dBm
Atten 30 dB
-35.275 dBm
#Samp
Log
10
dB/
Offst
8.5
dB
Dl
-13.0
dBm
#LgAv
100
W1 S2
S3 FC
AA
£(f):
f>50k
Swp
Center 1.755 000 GHz
Span 5 MHz
#Res BW 13 kHz
#VBW 13 kHz
Sweep 112.8 ms (601 pts)
Center Freq
1.75500000 GHz
Start Freq
1.75250000 GHz
Stop Freq
1.75750000 GHz
CF Step
500.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Invalid suffix


Agilent
R T
FCC ID:A3LSCHR390 4MHz Span Ch.25
Mkr1 1.708 993 GHz
Ref 25 dBm
Atten 30 dB
-24.755 dBm
#Samp
Log
10
dB/
Offst
8.5
dB
Dl
-13.0
dBm
#LgAv
100
W1 S2
S3 FC
AA
£(f):
FTun
Swp
Center 1.707 000 GHz
Span 4 MHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 1 ms (601 pts)
Freq/Channel
Center Freq
1.70700000 GHz
Start Freq
1.70500000 GHz
Stop Freq
1.70900000 GHz
CF Step
400.000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:\TEMP.GIF file saved


Agilent
R T
FCC ID:A3LSCHR390 4MHz Span Ch.875
Mkr1 1.756 060 GHz
Ref 25 dBm
Atten 30 dB
-24.711 dBm
#Samp
Log
10
dB/
Offst
8.5
dB
Dl
-13.0
dBm
#LgAv
100
W1 S2
S3 FC
AA
£(f):
FTun
Swp
Center 1.758 000 GHz
Span 4 MHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 1 ms (601 pts)
Freq/Channel
Center Freq
1.75800000 GHz
Start Freq
1.75600000 GHz
Stop Freq
1.76000000 GHz
CF Step
400.000000 kHz
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 1.7325 GHz
Trig Free
CCDF
IS-95C BC0
Counts(k): 10000
Center Freq
1.73250000 GHz
Start Freq
1.73250000 GHz
Stop Freq
1.73250000 GHz
CF Step
5.00000000 MHz
Auto Man
Freq Offset
0.000000000 Hz
Signal Track
On Off
Average Power
24.05 dBm
50.22%
10.0% 1.84 dB
1.0% 3.08 dB
0.1% 3.76 dB
0.01% 4.14 dB
0.001% 4.35 dB
0.0001% 4.48 dB
Peak 4.52 dB
100.00%
10.00%
1.00%
0.10%
0.01%
0.001%
0.0001%
Gaussian
Reference
0 dB
20 dB
Meas BW 5.00000000 MHz
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