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 24 SUBPART CERTIFICATION REPORT

Model Tested	:	**GT-C3730C**
FCC ID(Requested)	:	**A3LGTC3730C**
Report No	:	**FG-298-R1**
Job No	:	**FG-298**
Date issued	:	**November 04, 2009**

- Abstract -

All measurement reported herein accordance with FCC Rules, 47CFR Part2, Part24.

Prepared By

JH HAN – 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	:	A3LGTC3730C
• Model	:	GT-C3730C
• Quantity	:	Quantity production is planned
• Emission Designators	:	246KGXW(GSM1900), 233KG7W(GSM1900 EDGE)
• Tx Freq. Range	:	1850.2MHz -1909.8MHz (GSM1900)
• Rx Freq. Range	:	1930.2MHz - 1989.8MHz (GSM1900)
• Max. Power Rating	:	0.834 W EIRP GSM1900 (29.21 dBm) 0.473 W EIRP GSM1900 EDGE(26.75dBm)
• FCC Classification(s)	:	PCS Licensed Portable Tx Held to Ear (PCE)
• Equipment (EUT) Type	:	1900 GSM/EDGE Phone with Bluetooth
• Frequency Tolerance	:	±0.00025% (2.5ppm)
• FCC Rule Part(s)	:	§24(E), §2.
• Dates of Test	:	October 23-24, 2009
• Place of Test	:	SAMSUNG Lab,
• Test Report S/N	:	FG-298-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.

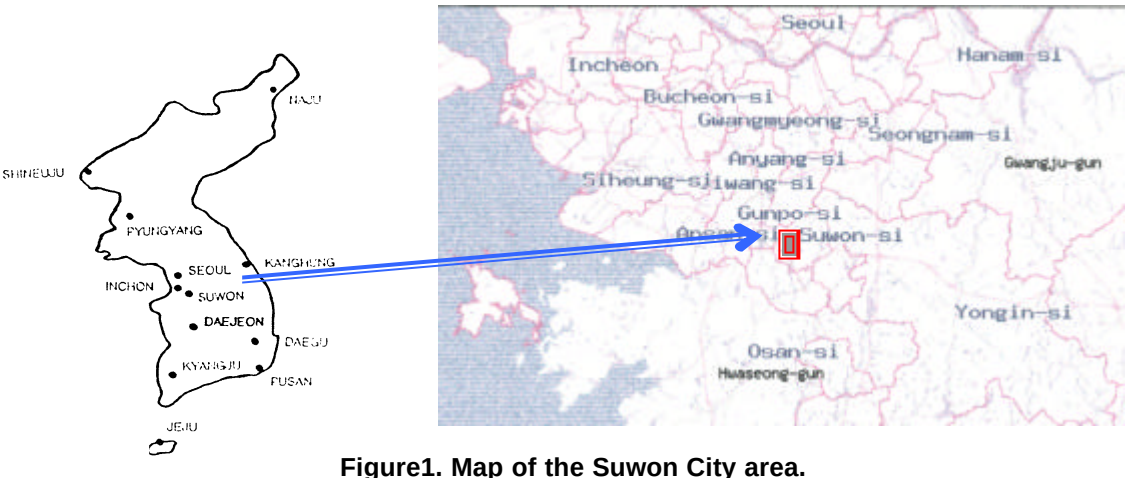


Figure1. Map of the Suwon City area.

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 Non-conducted 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.

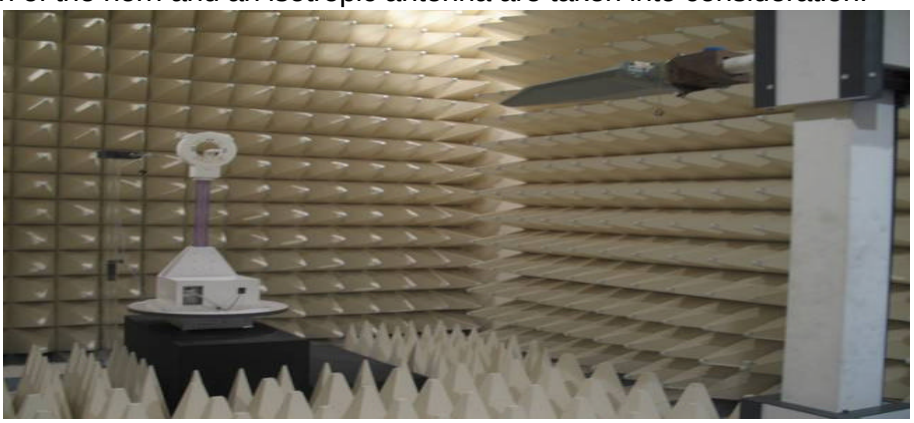


Figure2. Photograph of 3m Fully-Anechoic Chamber

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.

4. TEST EQUIPMENT LIST

Name Of Equipment	Model	Serial No.	Due Date
Spectrum Analyzer	ESI26	836119/010	2010-10-20
	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	2011-09-24
	HF906	360306/011	2010-06-13
	BBHA9120	9120D-637	2011-09-24
Dipole Antenna	UHA 9105	9105-2412	2011-10-06
	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	WHK1.0/15G-10SS	1	Not Required
	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. 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

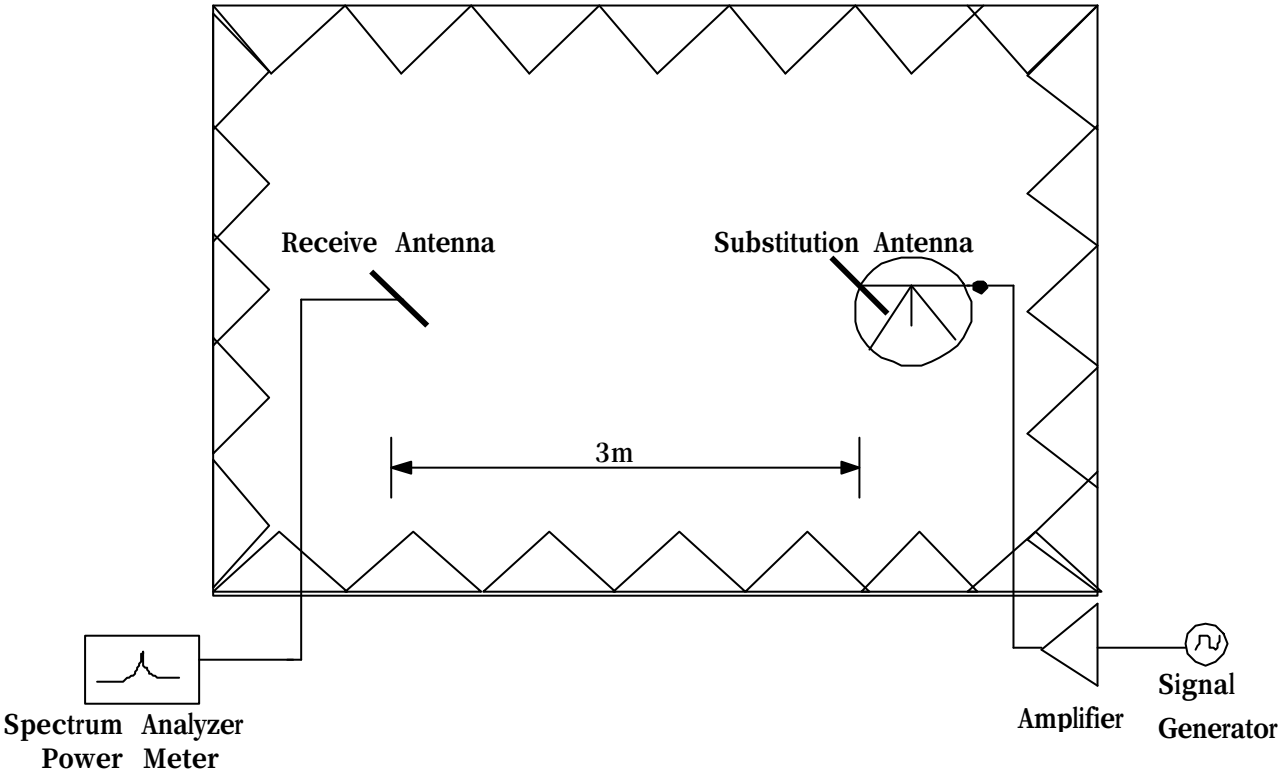


Figure 3. Diagram of ERP/EIRP test Set-up

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 GSM 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.

5.2. 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-C-2004

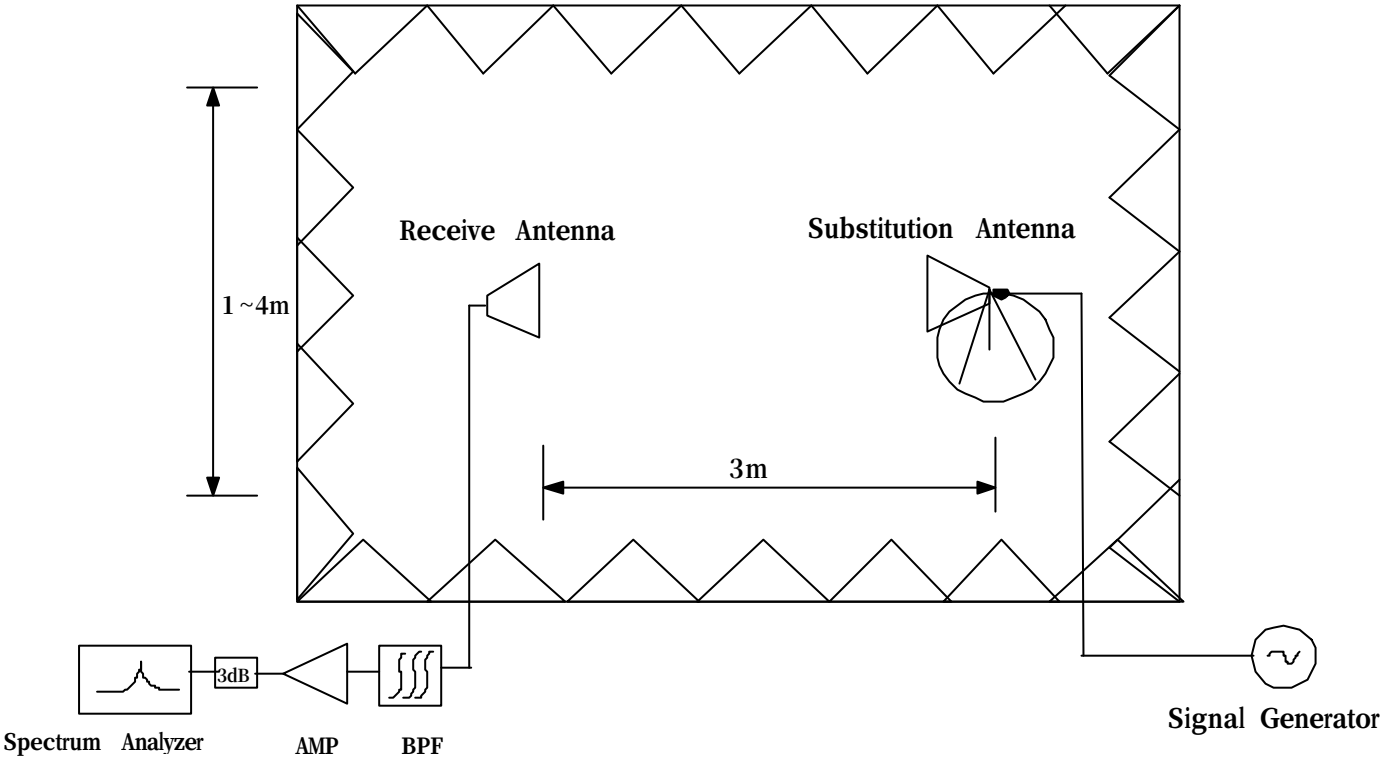


Figure 4. Diagram of Radiated Spurious & Harmonic test Set-up

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 661 , Second Harmonic(3760.00MHz)

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 3760.00MHz. 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 .

5.3. 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.

5.4. 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.

5.5. Spurious and Harmonic Emission at Antenna Terminal

5.5.1. 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	1850 – 1865	1930 – 1945
B	1870 – 1885	1950 – 1965
C	1895 – 1910	1975 – 1990
D	1865 – 1870	1945 – 1950
E	1885 – 1890	1965 – 1970
F	1890 – 1895	1970 – 1975

Table 1. Broadband PCS Service Frequency Blocks

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 2. Cellular Service Frequency Blocks

5.5.2. 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 (0.834 W) = 42.21 dB
29.21 dBm – 42.21 dB = -13 dBm

Compliance with the out-of-band emissions requirement is based on test being performed with an analyzer resolution bandwidth of 1MHz. However in the 1MHz band immediately outside and adjacent to the frequency block a resolution bandwidth of at least 1% of the fundamental emissions bandwidth may be employed.

In case of GSM : 0.01 * 273KHz = 2.73KHz
A Resolution BW of 3KHz was used for measurement at the band edges.

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. (GSM1900 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.

5.6. Frequency Stability / Temperature Variation

The frequency stability of the transmitter is measured by:

a.) Temperature: The temperature is carried from -30 ℃ to +60 ℃ 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 ℃ to 27 ℃ to provide a reference).
2. The equipment is subjected to an overnight "soak" at -30 ℃ without any power applied.
3. After the overnight "soak" at -30 ℃ (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 ℃ 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 ℃ up to +60 ℃ 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.

TEST DATA
5.7. Equivalent Isotropic Radiated Power (E.I.R.P.)

Supply Voltage : 3.7VDC

Modulation : PCS 1900

■Reference level

Frequency (MHz)	Output (dBm)	Polarization (H/V)	S/A (dBm)	Ant gain (dBi)	Ref level (dBm)
1850.20	29.00	H	-9.75	9.70	-19.45
		V	-9.38	9.70	-19.08
1880.00	29.00	H	-10.11	9.70	-19.81
		V	-10.11	9.70	-19.81
1909.80	29.00	H	-10.11	9.70	-19.81
		V	-9.80	9.70	-19.50

■Result

Frequency (MHz)	Tested level (dBm)	Polarization (H/V)	Azimuth (angle)	EIRP (dBm)	EIRP (W)	Battery
1850.20	-19.24	H	109/10	29.21	0.834	Standard
1880.00	-19.71	V	316/80	29.10	0.813	Standard
1909.80	-19.86	V	332/80	28.64	0.731	Standard

■EDGE Result

Frequency (MHz)	Tested level (dBm)	Polarization (H/V)	Azimuth (angle)	EIRP (dBm)	EIRP (W)	Battery
1850.20	-21.69	H	109/10	26.75	0.473	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

5.8. GSM1900 Radiated Spurious & Harmonic measurement

Operating Frequency : 1850.2 MHz(Low), 1880.00 MHz(Middle), 1909.80 MHz(High)

Measured Output Power : 29.21 dBm = 0.834 W

Modulation Signal : GSM1900

Limit : 43 + 10log$_{10}$(P) = 42.21 dBc

■Result

Channel	Harmonic	Frequency (MHz)	From EUT Tested level (dBm)	POL (H/V)	Result (dBc)
512	2	3700.40	-58.96	V	64.38
	3	5550.60	-66.80	H	66.33
	4	7400.80	-68.97	H	63.85
	5	9251.00	-	-	-
	6	11101.20	-	-	-
	7	12951.40	-	-	-
661	2	3760.00	-60.83	H	65.96
	3	5640.00	-67.85	H	67.02
	4	7520.00	-67.66	H	62.75
	5	9400.00	-	-	-
	6	11280.00	-	-	-
	7	13160.00	-	-	-
810	2	3819.60	-62.36	V	65.89
	3	5729.40	-67.69	H	66.42
	4	7639.20	-69.15	V	63.92
	5	9549.00	-	-	-
	6	11458.80	-	-	-
	7	13368.60	-	-	-

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

5.9. GSM1900 Radiated Spurious & Harmonic Conversion Table

Date : 2009. 10. 24

Test Engineer : JH HAN

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)

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 : H dBm	⑥ Result EUT : H (dBc)	⑥ Result EUT : V (dBc)
512	2	3700.40	-14.91	12.40	-10.50	-36.94	-36.57	-59.11	-58.96	64.38	64.60
	3	5550.60	-17.69	12.90	-8.20	-42.68	-42.80	-66.80	-67.04	66.33	66.45
	4	7400.80	-20.43	10.50	-3.10	-47.33	-46.96	-68.97	-69.31	63.85	64.56
	5	9251.00	-23.63	11.20	-0.60	-51.79	-50.45	-	-	-	-
	6	11101.20	-26.86	11.60	2.30	-54.95	-55.26	-	-	-	-
	7	12951.40	-28.80	12.90	2.90	-58.88	-58.56	-	-	-	-
661	2	3760.00	-15.19	12.40	-10.20	-37.08	-37.05	-60.83	-61.02	65.96	66.18
	3	5640.00	-17.78	12.90	-8.10	-42.73	-43.08	-67.85	-67.89	67.33	67.02
	4	7520.00	-20.67	10.60	-2.90	-47.12	-46.95	-67.66	-68.95	62.75	64.21
	5	9400.00	-23.23	11.60	-1.40	-51.75	-52.22	-	-	-	-
	6	11280.00	-26.34	12.10	1.20	-55.98	-56.30	-	-	-	-
	7	13160.00	-28.12	12.80	2.30	-59.32	-58.91	-	-	-	-
810	2	3819.60	-14.23	12.40	-11.20	-38.02	-38.68	-63.78	-62.36	67.97	65.89
	3	5729.40	-18.11	13.00	-7.90	-43.48	-43.49	-67.69	-67.93	66.42	66.65
	4	7639.20	-21.16	11.20	-3.00	-47.29	-47.44	-69.29	-69.15	64.21	63.92
	5	9549.00	-23.54	11.70	-1.20	-52.60	-52.08	-	-	-	-
	6	11458.80	-26.84	11.70	2.10	-56.26	-56.23	-	-	-	-
	7	13368.60	-28.23	12.30	2.90	-60.44	-59.84	-	-	-	-

5.10. Frequency Stability
5.10.1. GSM1900 Frequency Stability Table

Operating Frequency : 1,880,000,000 Hz

Channel : 661

Reference Voltage : 3.7VDC

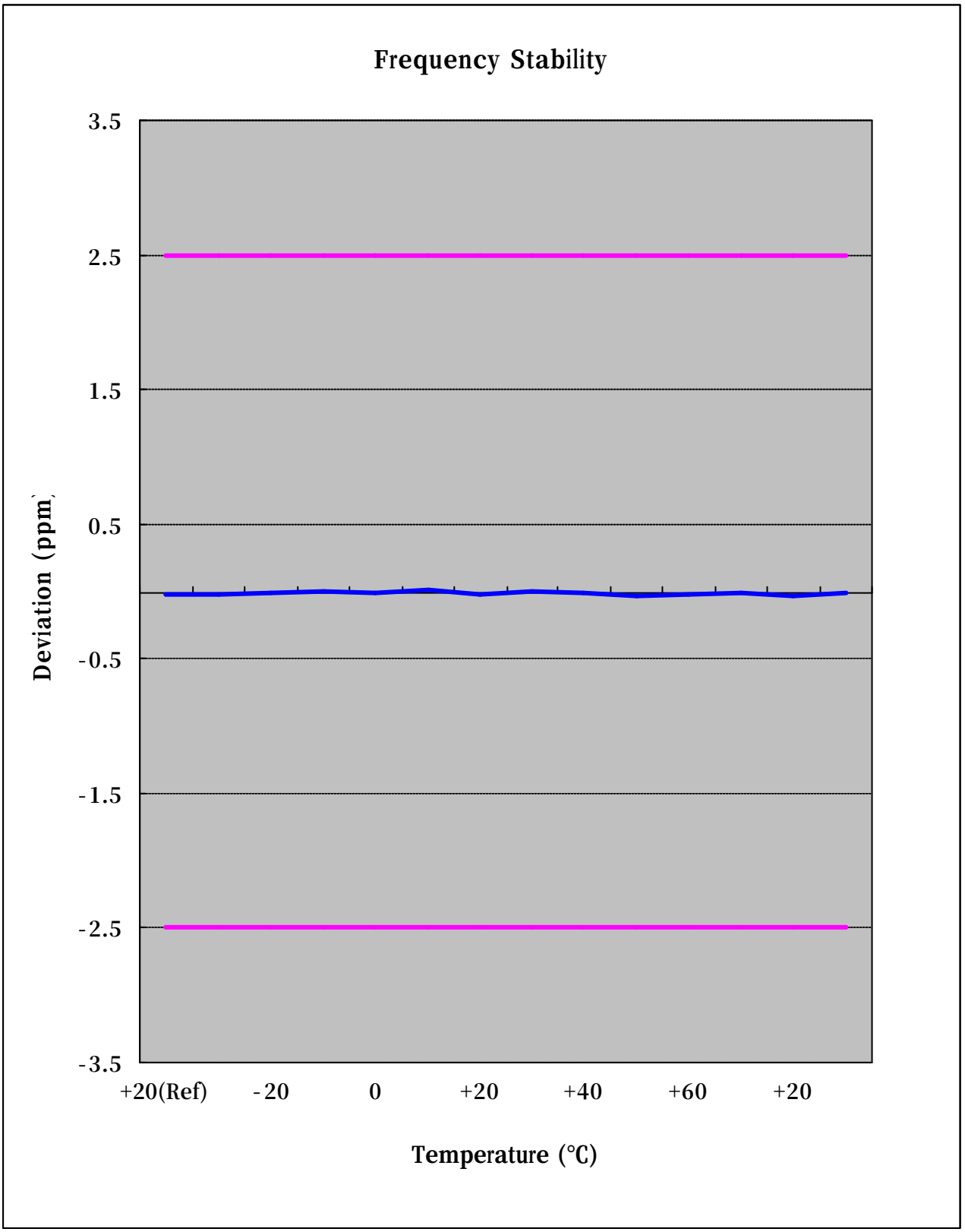
Deviation Limit : ±0.00025 % or 2.5ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency Error (Hz)	Frequency (Hz)	Deviation (%)	ppm
100%	3.70	+20(Ref)	36.90	1,880,000,037	0.000002	0.020
100%		-30	25.40	1,880,000,025	0.000001	0.014
100%		-20	27.40	1,880,000,027	0.000001	0.015
100%		-10	43.80	1,880,000,044	0.000002	0.023
100%		0	18.90	1,880,000,019	0.000001	0.010
100%		+10	9.40	1,880,000,009	0.000001	0.005
100%		+20	36.90	1,880,000,037	0.000002	0.020
100%		+30	-10.30	1,879,999,990	-0.000001	-0.005
100%		+40	5.40	1,880,000,005	0.000000	0.003
100%		+50	-6.60	1,879,999,993	0.000000	-0.004
100%		+60	-26.10	1,879,999,974	-0.000001	-0.014
85%	3.35	+20	-1.40	1,879,999,999	0.000000	-0.001
115%	4.26	+20	-25.30	1,879,999,975	-0.000001	-0.013
Batt.Endpoint	3.35	+20	-1.40	1,879,999,999	0.000000	-0.001

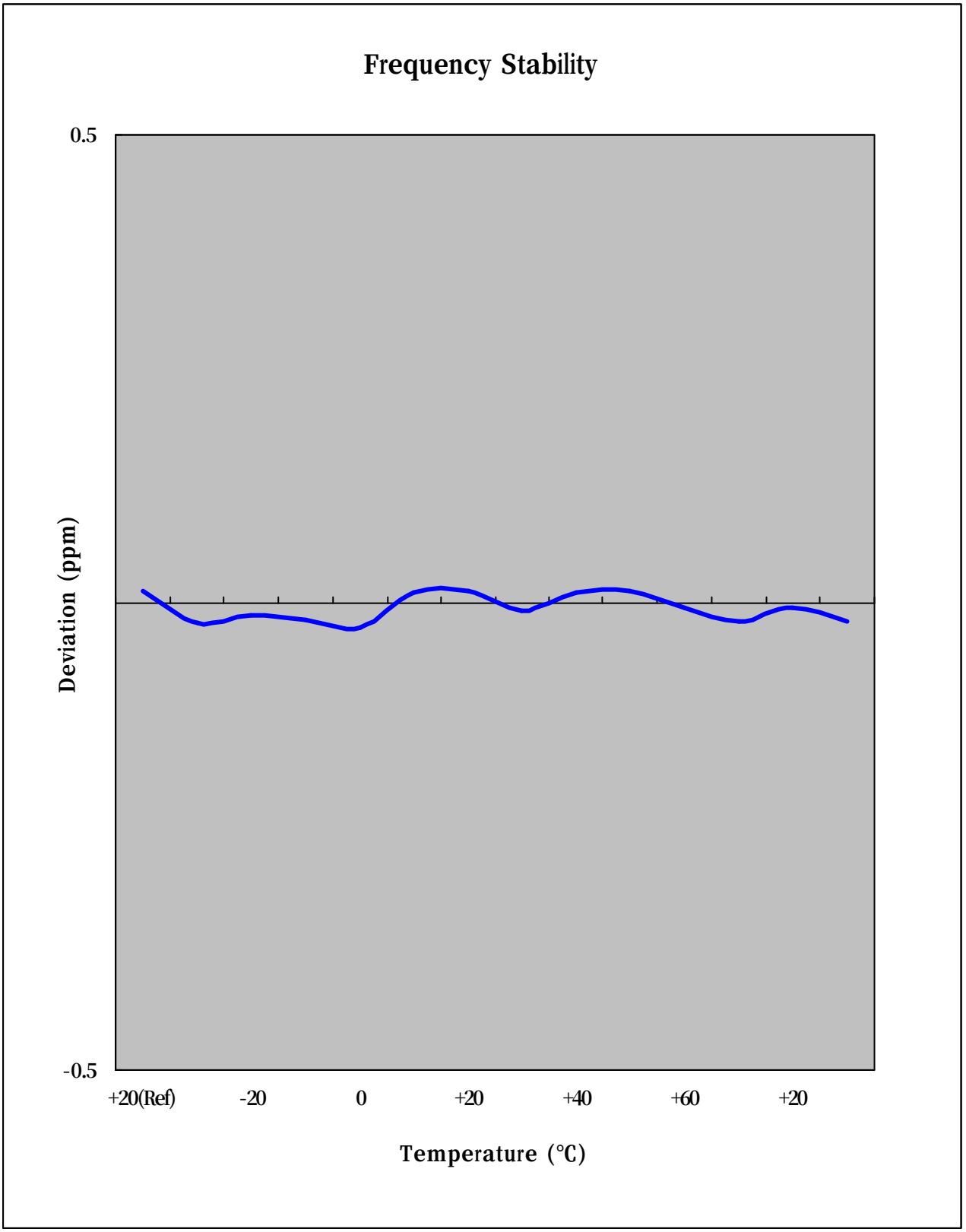
Note : The temperature is varied from -30 °C to +60 °C using an environmental chamber.

The EUT is tested down to the battery end point.

5.10.2. GSM1900 Frequency Stability Graph



Zoom IN

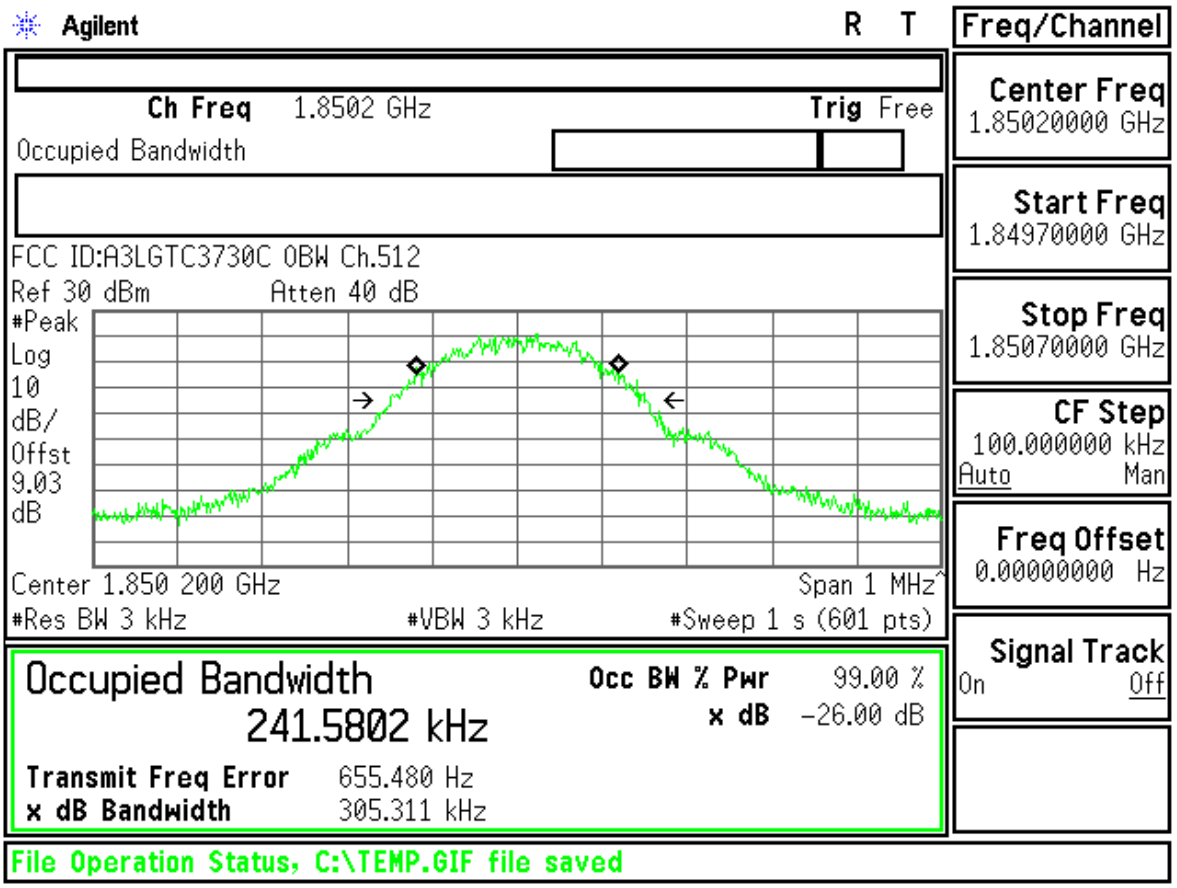

Frequency Stability
0.5
-0.5
Deviation (ppm)
+20(Ref)
-20
0
+20
+40
+60
+20
Temperature (℃)

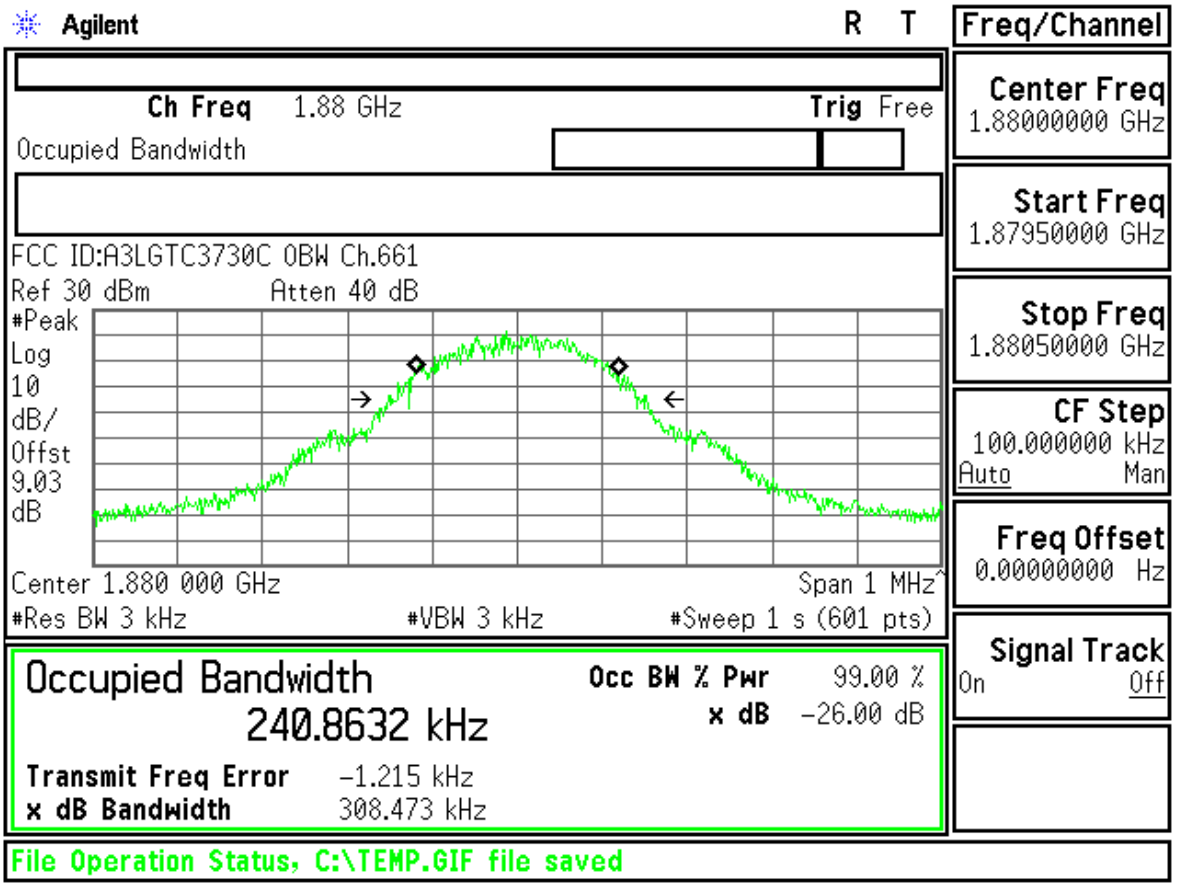
6. CONCLUSION

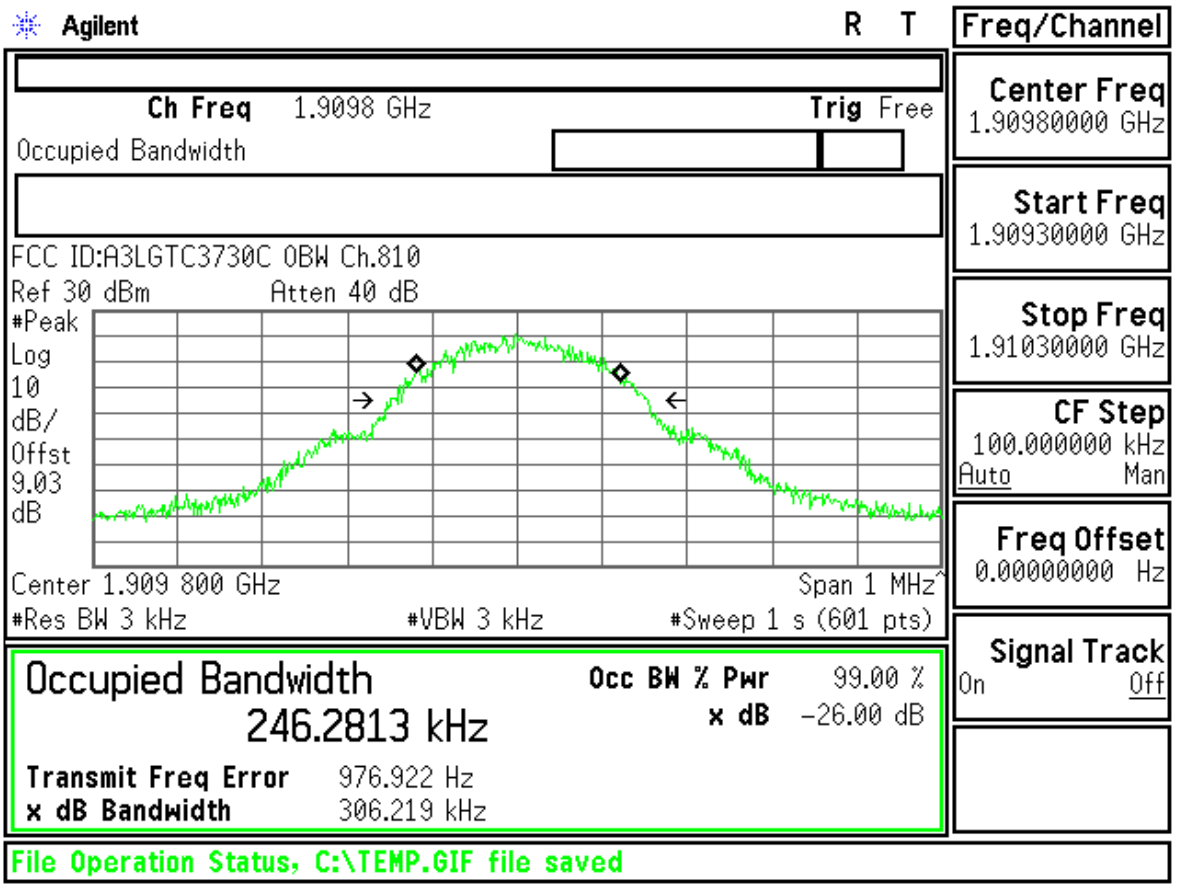
The data collected shows that the SAMSUNG 1900 GSM/EDGE Phone with Bluetooth.
FCC ID : A3LGTC3730C complies with all the requirements of Parts 2,24 of the FCC Rules.

7. TEST PLOTS

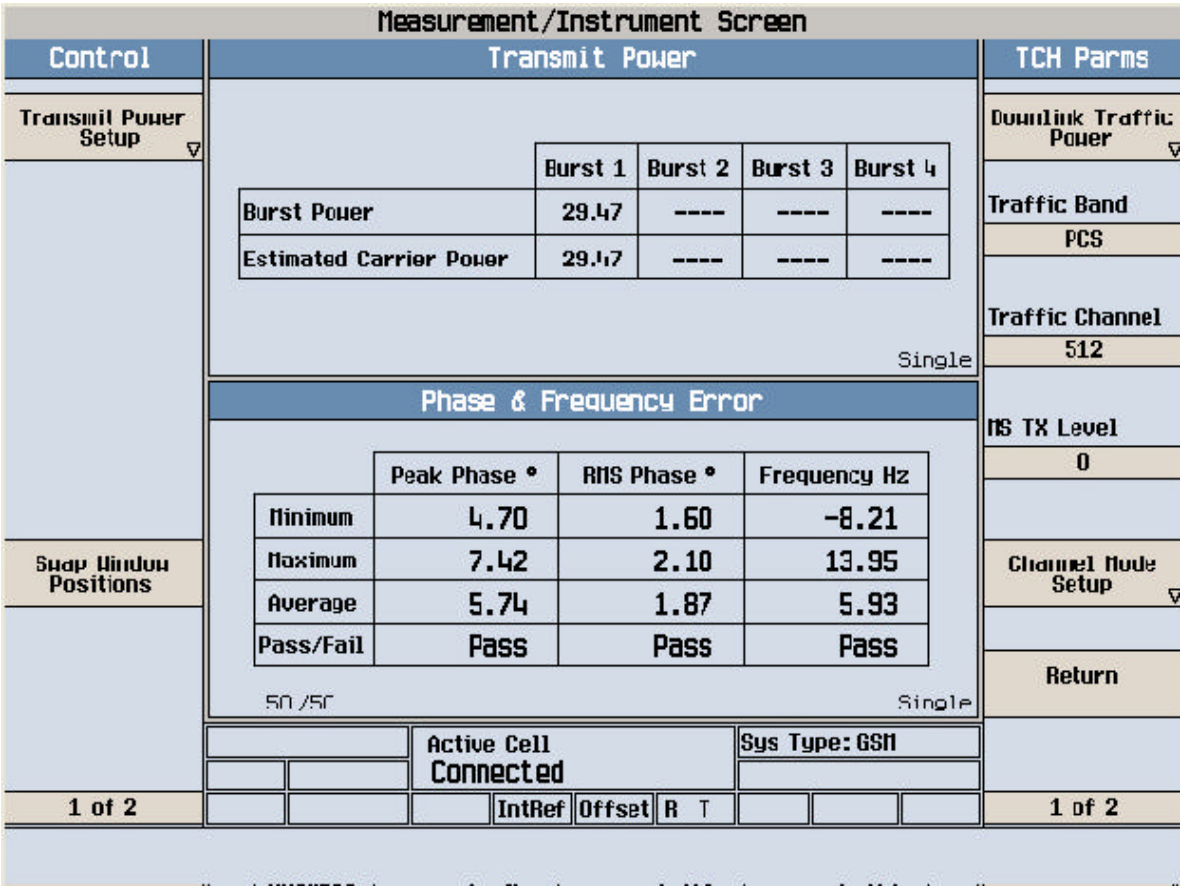
GSM1900


Agilent
R T
Freq/Channel
Ch Freq 1.8502 GHz
Trig Free
Occupied Bandwidth
FCC ID:A3LGTC3730C OBW Ch.512
Ref 30 dBm
Atten 40 dB
#Peak
Log
10
dB/
Offst
9.03
dB
Center 1.850 200 GHz
Span 1 MHz
#Res BW 3 kHz
#VBW 3 kHz
#Sweep 1 s (601 pts)
Occupied Bandwidth
241.5802 kHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error 655.480 Hz
x dB Bandwidth 305.311 kHz
Center Freq
1.85020000 GHz
Start Freq
1.84970000 GHz
Stop Freq
1.85070000 GHz
CF Step
100.000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:\TEMP.GIF file saved

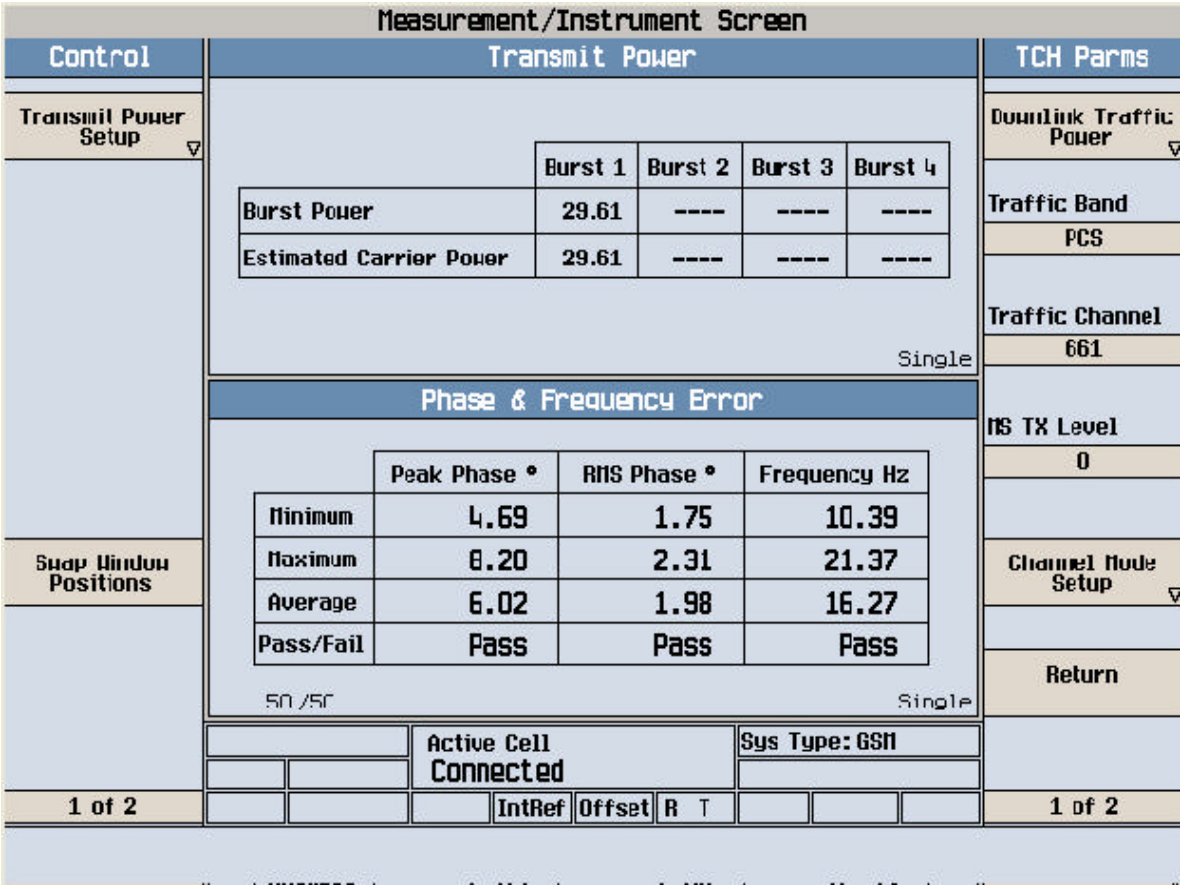

Agilent
R T
Freq/Channel
Ch Freq 1.88 GHz
Trig Free
Occupied Bandwidth
FCC ID:A3LGTC3730C OBW Ch.661
Ref 30 dBm
Atten 40 dB
#Peak
Log
10
dB/
Offst
9.03
dB
Center 1.880 000 GHz
Span 1 MHz
#Res BW 3 kHz
#VBW 3 kHz
#Sweep 1 s (601 pts)
Occupied Bandwidth
240.8632 kHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error -1.215 kHz
x dB Bandwidth 308.473 kHz
Center Freq
1.88000000 GHz
Start Freq
1.87950000 GHz
Stop Freq
1.88050000 GHz
CF Step
100.000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:\TEMP.GIF file saved



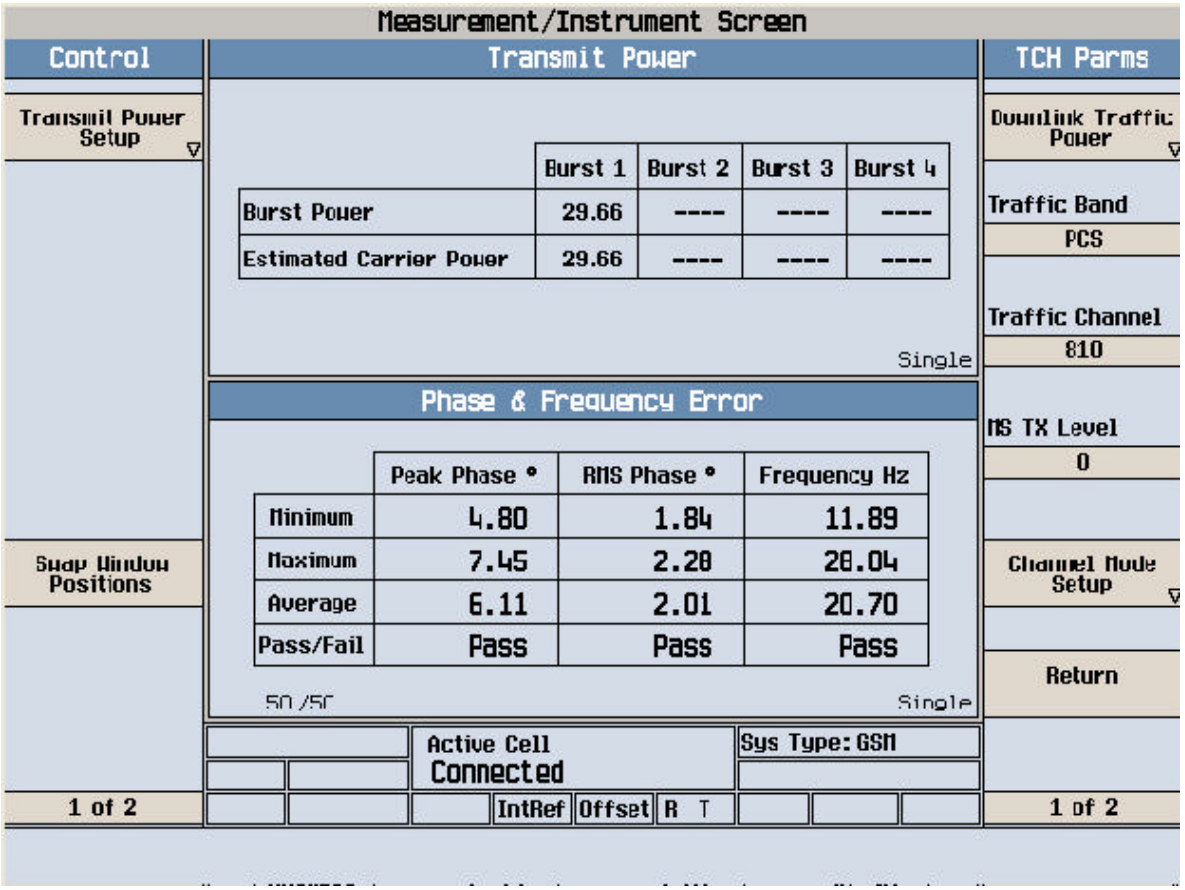
FCC ID : A3LGTC3730C Transmit Power 512CH



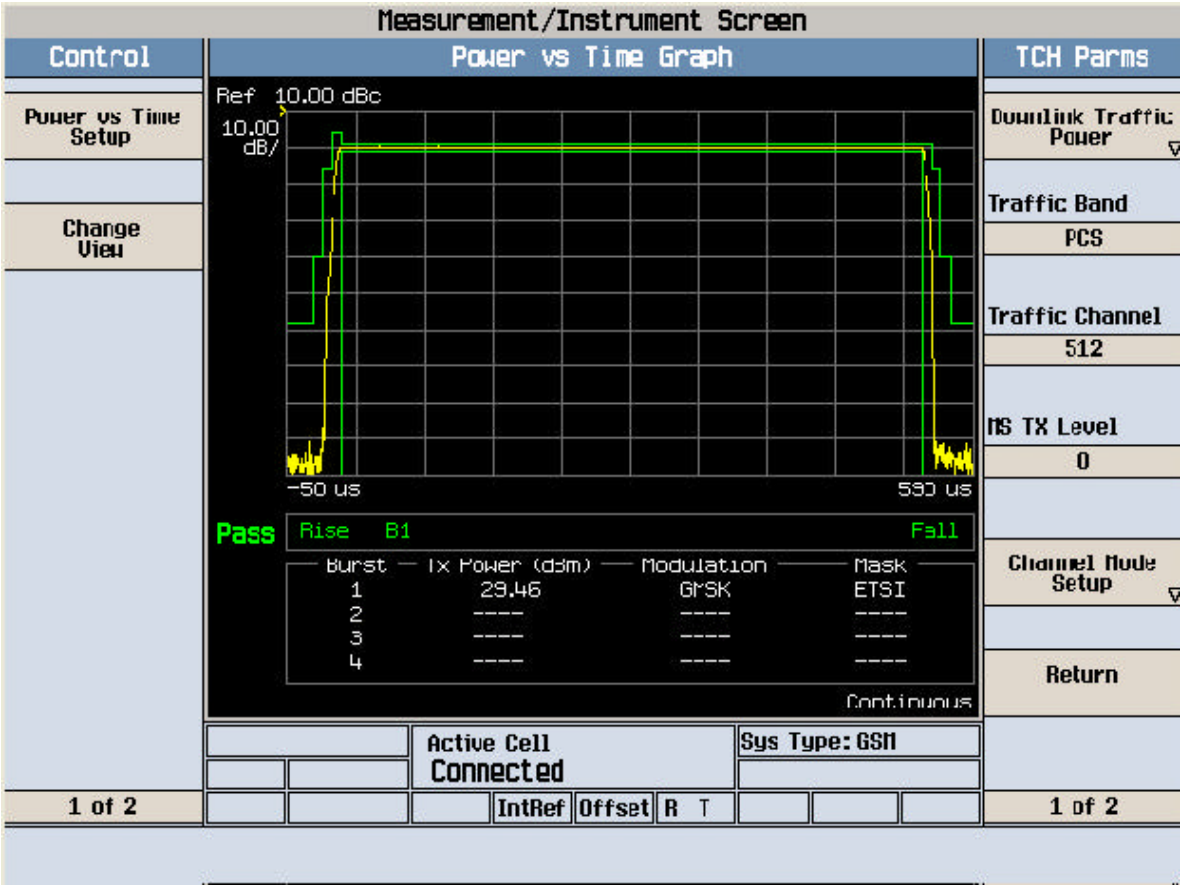
FCC ID : A3LGTC3730C Transmit Power 661CH



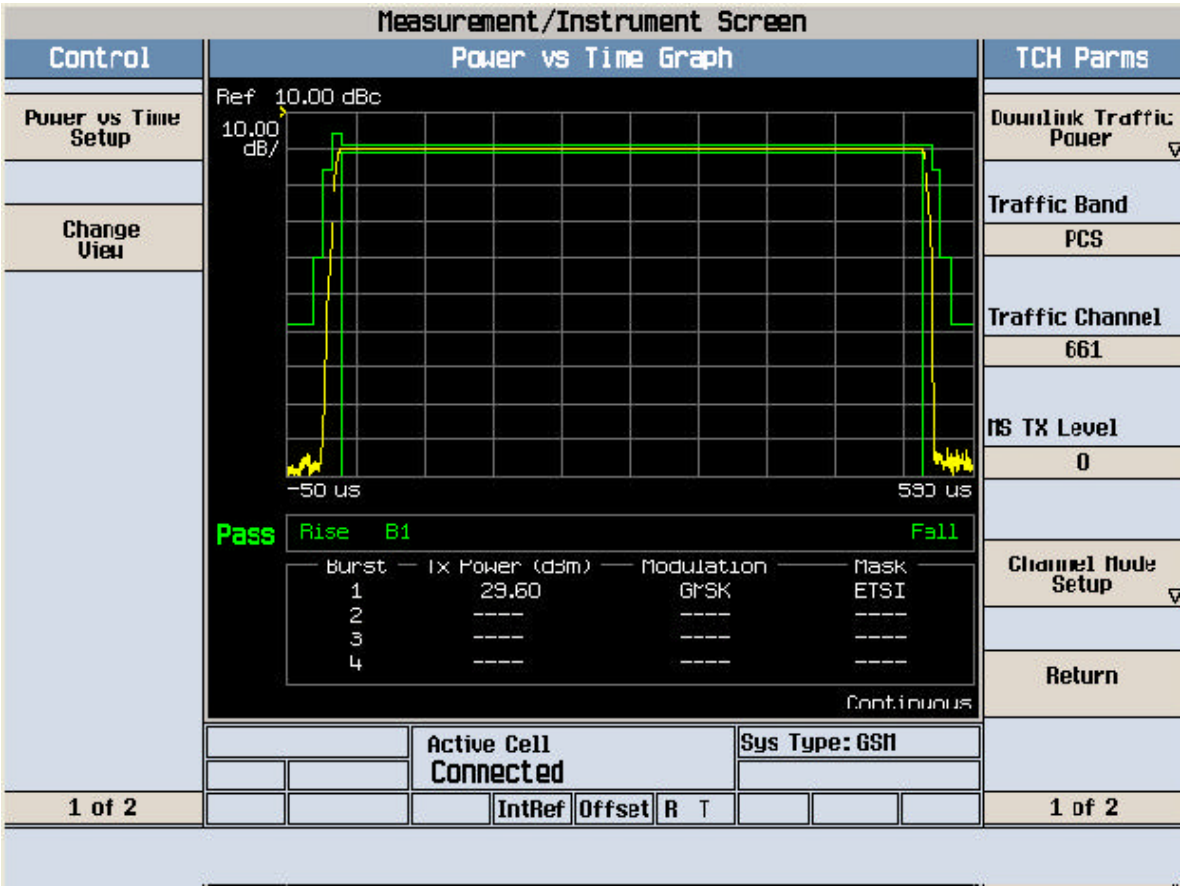
FCC ID : A3LGTC3730C Transmit Power 810CH



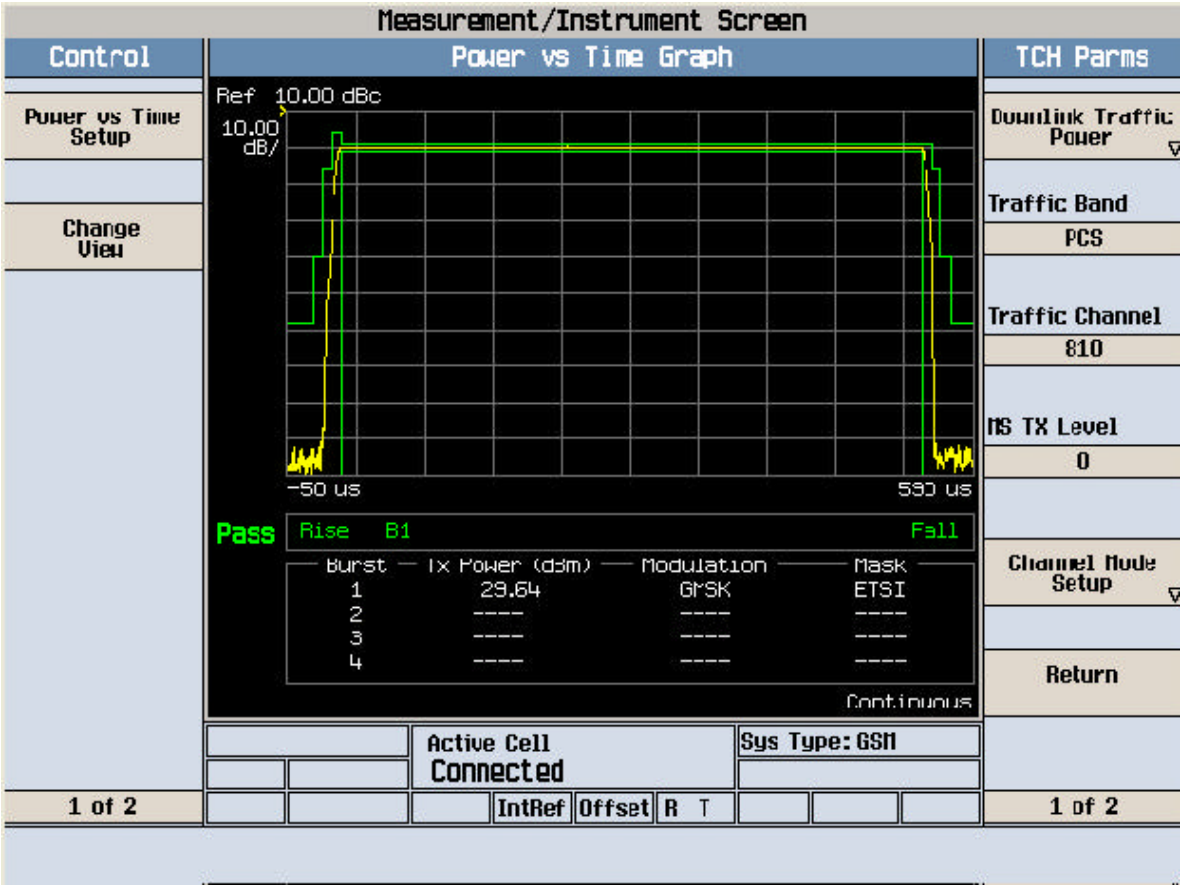
FCC ID : A3LGTC3730C GMSK Power vs Time 512CH



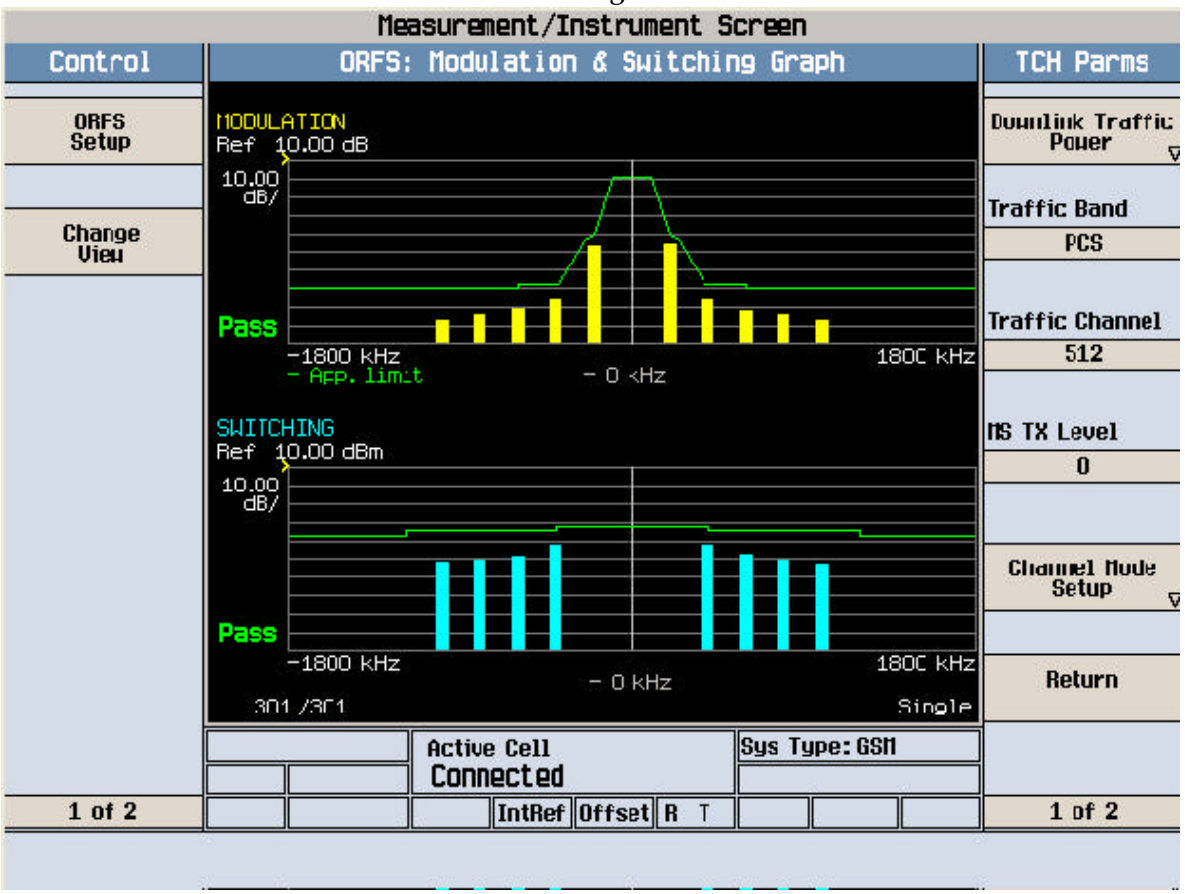
FCC ID : A3LGTC3730C GMSK Power vs Time 661CH



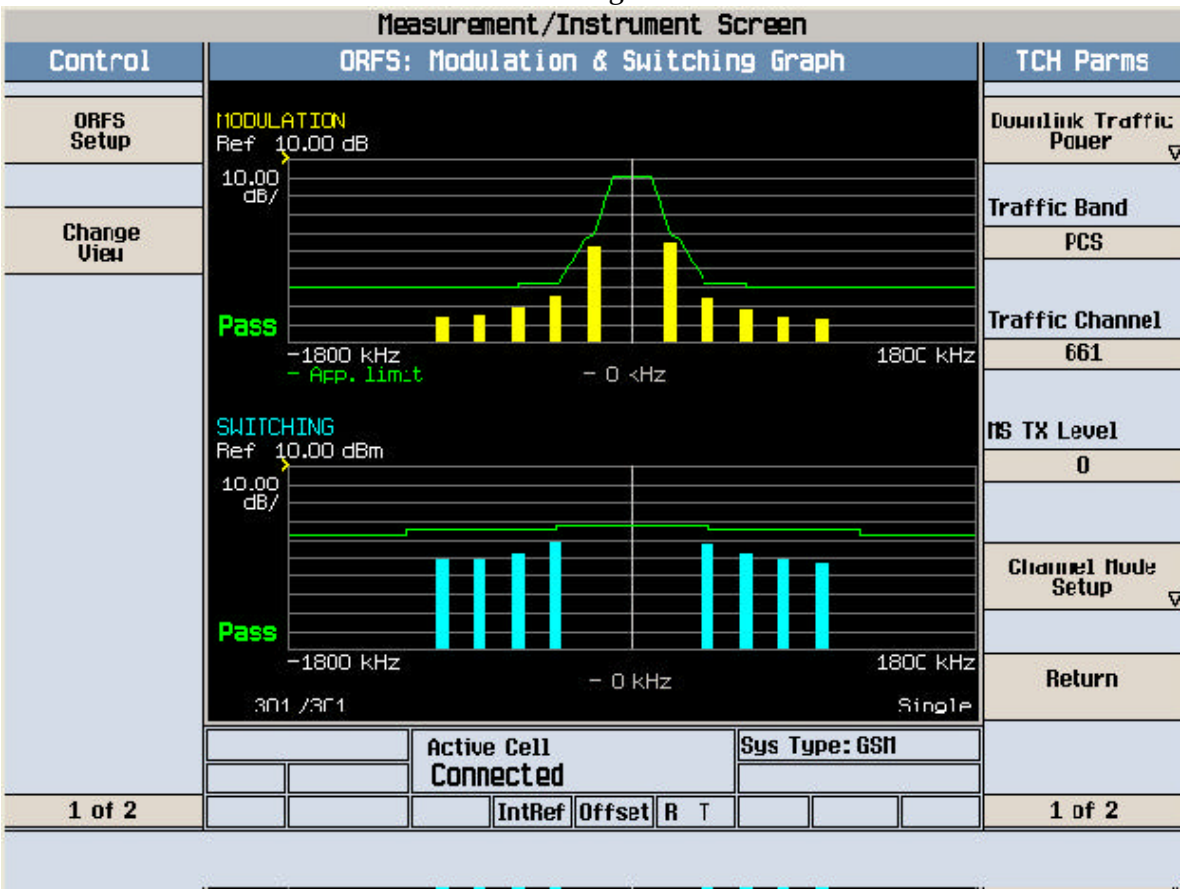
FCC ID : A3LGTC3730C GMSK Power vs Time 810CH



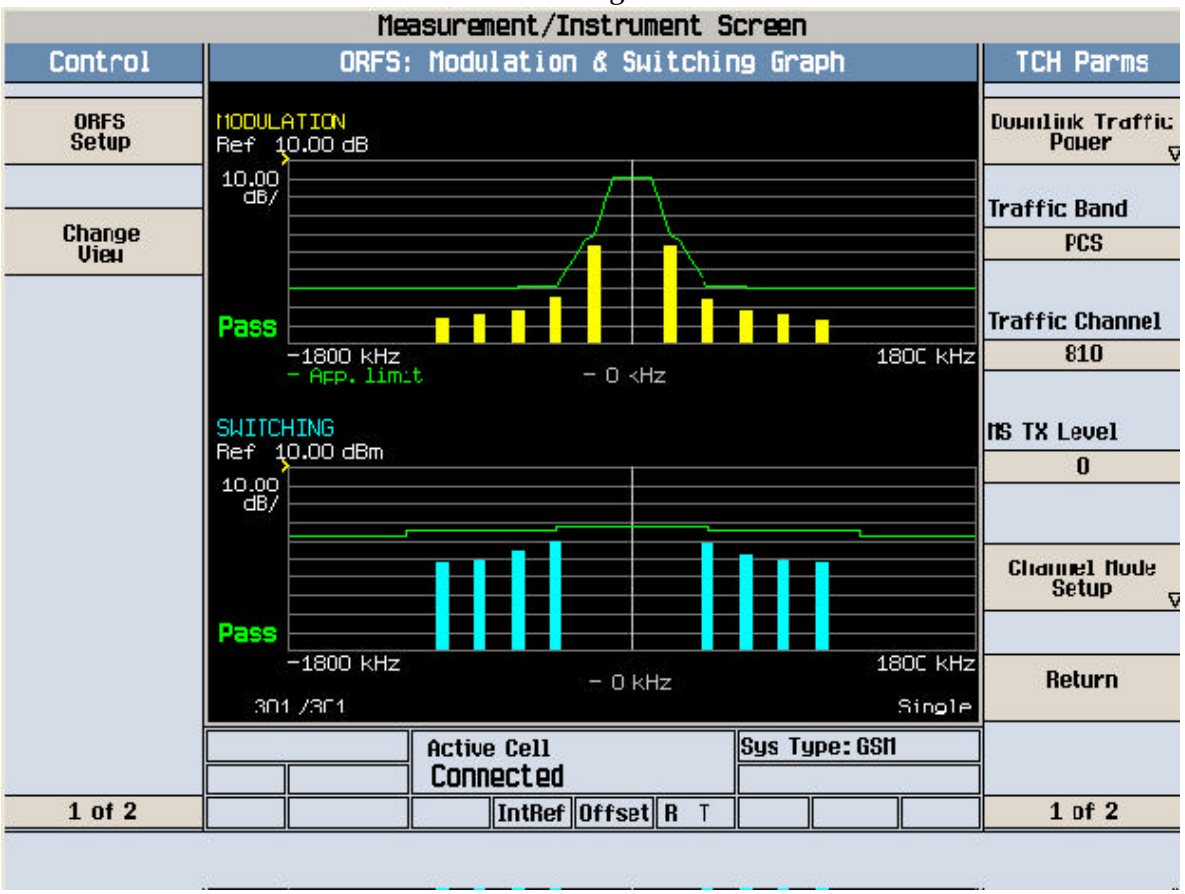
FCC ID : A3LGTC3730C Modulation & Switching 512CH

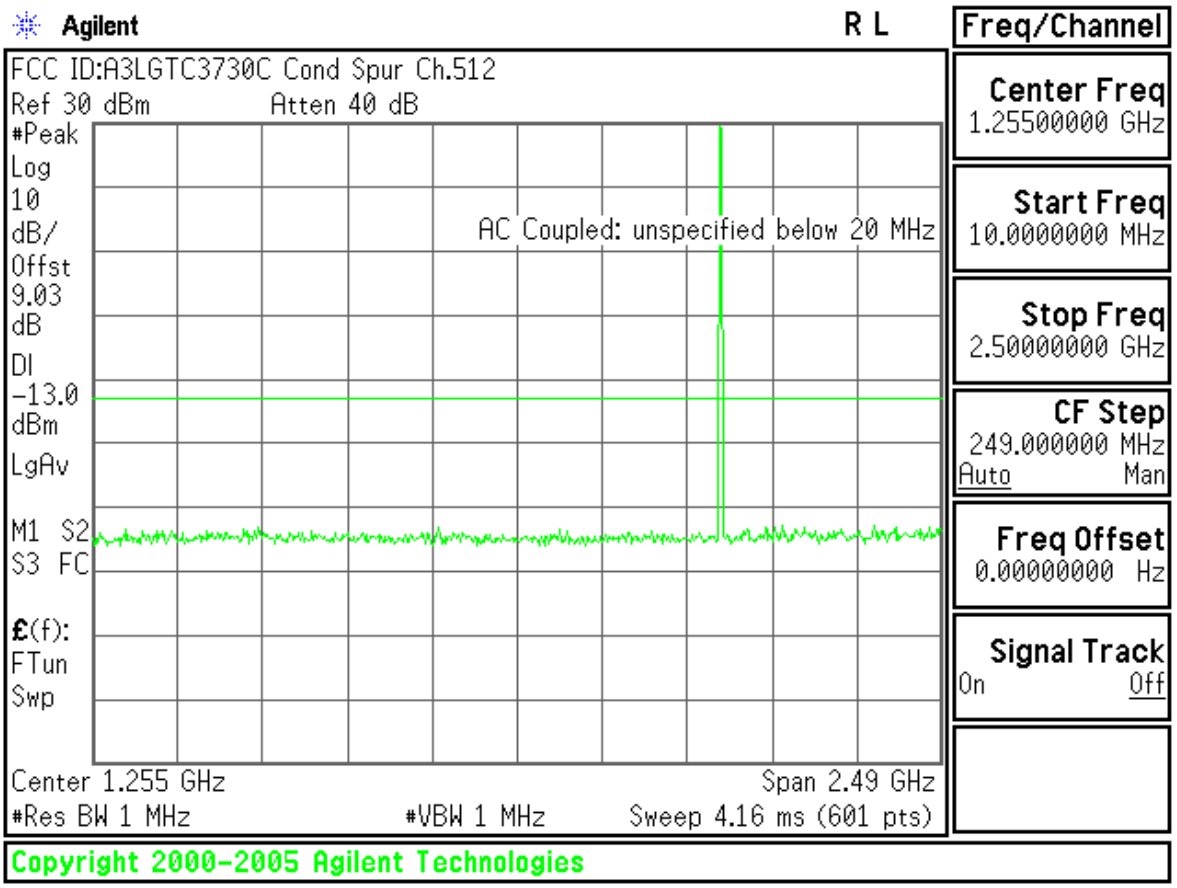


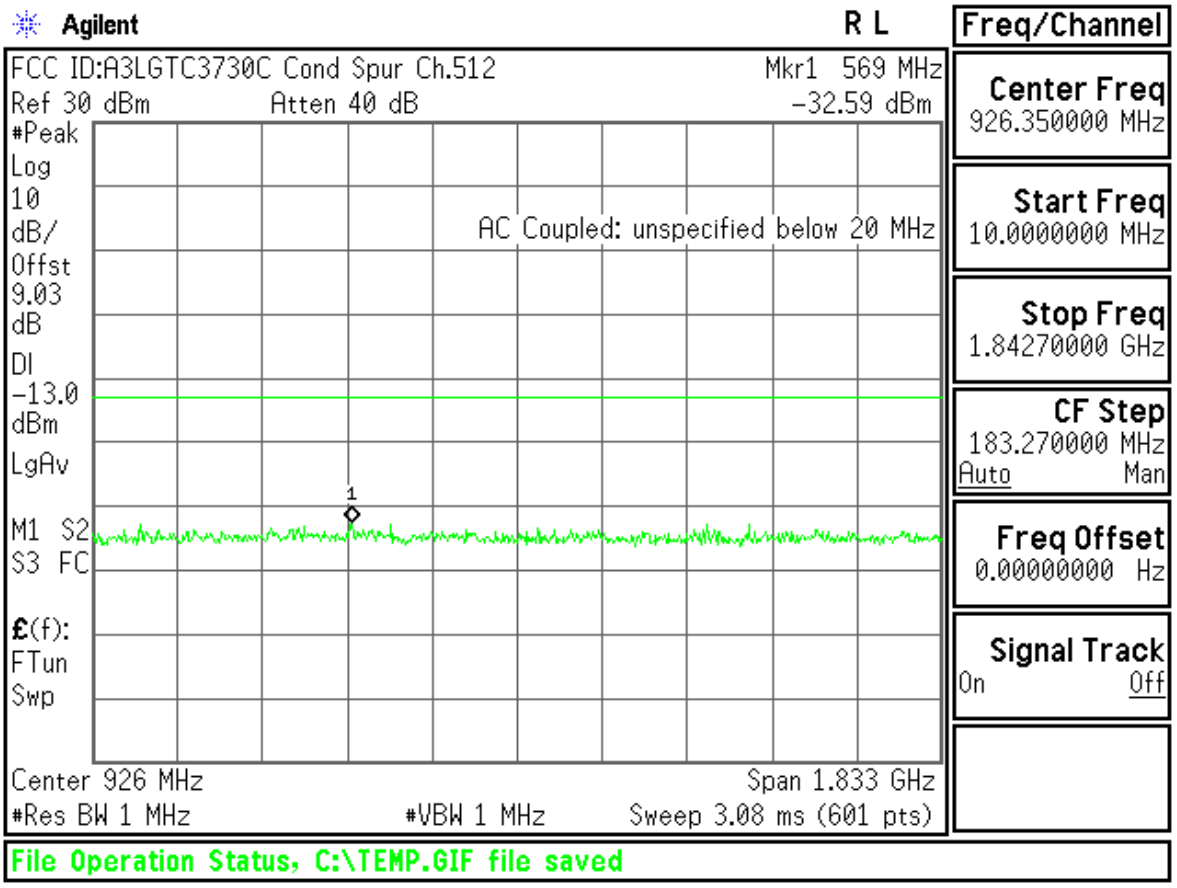
FCC ID : A3LGTC3730C Modulation & Switching 661CH

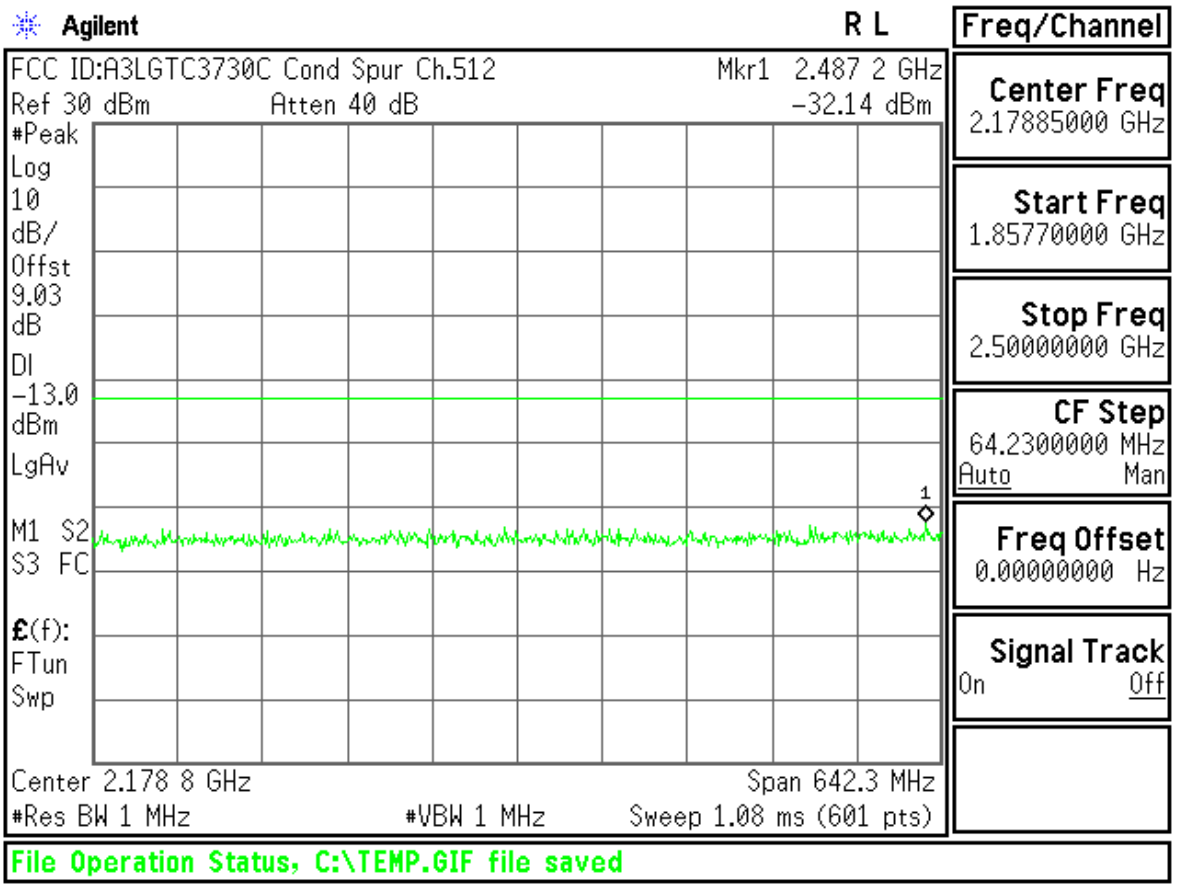


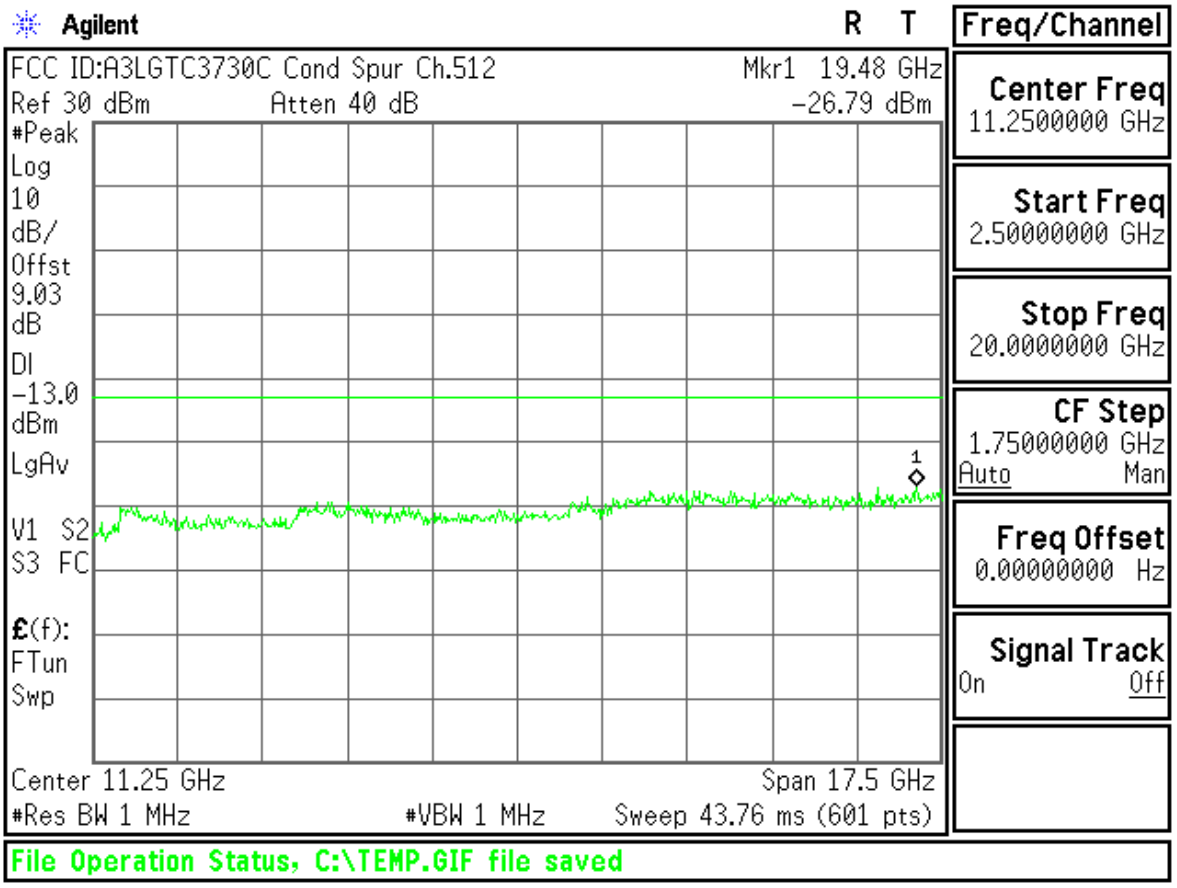
FCC ID : A3LGTC3730C Modulation & Switching 810CH

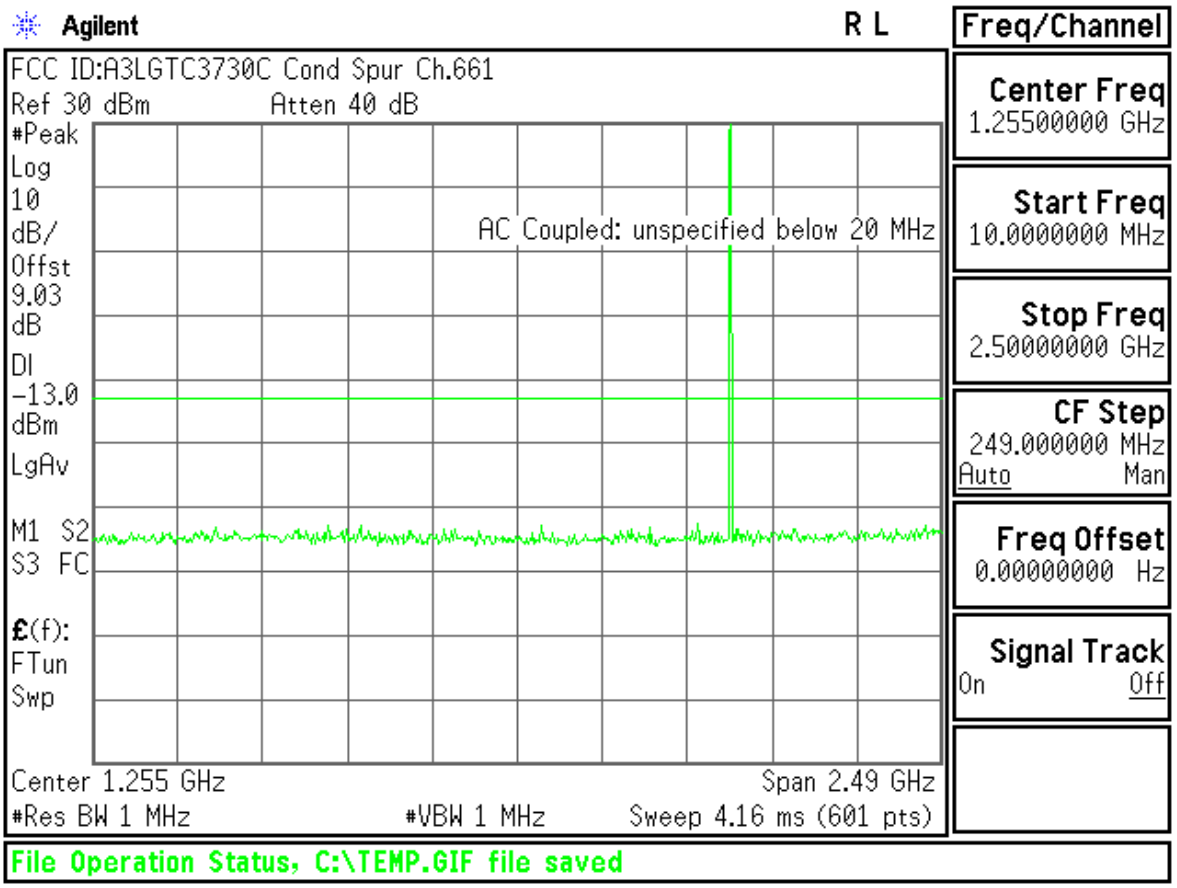


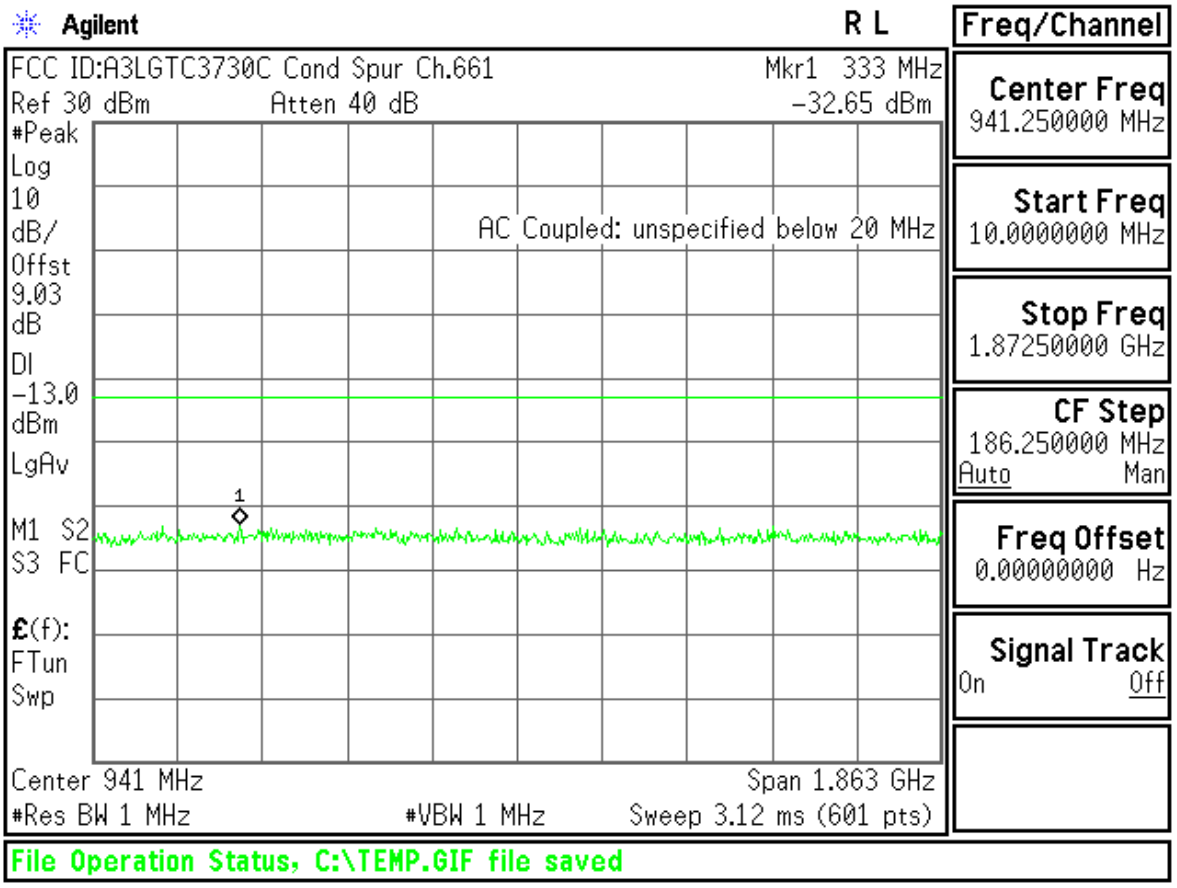

Agilent
R L
Freq/Channel
FCC ID:A3LGTC3730C Cond Spur Ch.512
Ref 30 dBm
Atten 40 dB
#Peak
Log
10
dB/
Offst
9.03
dB
Dl
-13.0
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
AC Coupled: unspecified below 20 MHz
Center Freq
1.25500000 GHz
Start Freq
10.0000000 MHz
Stop Freq
2.50000000 GHz
CF Step
249.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 1.255 GHz
Span 2.49 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 4.16 ms (601 pts)
Copyright 2000-2005 Agilent Technologies

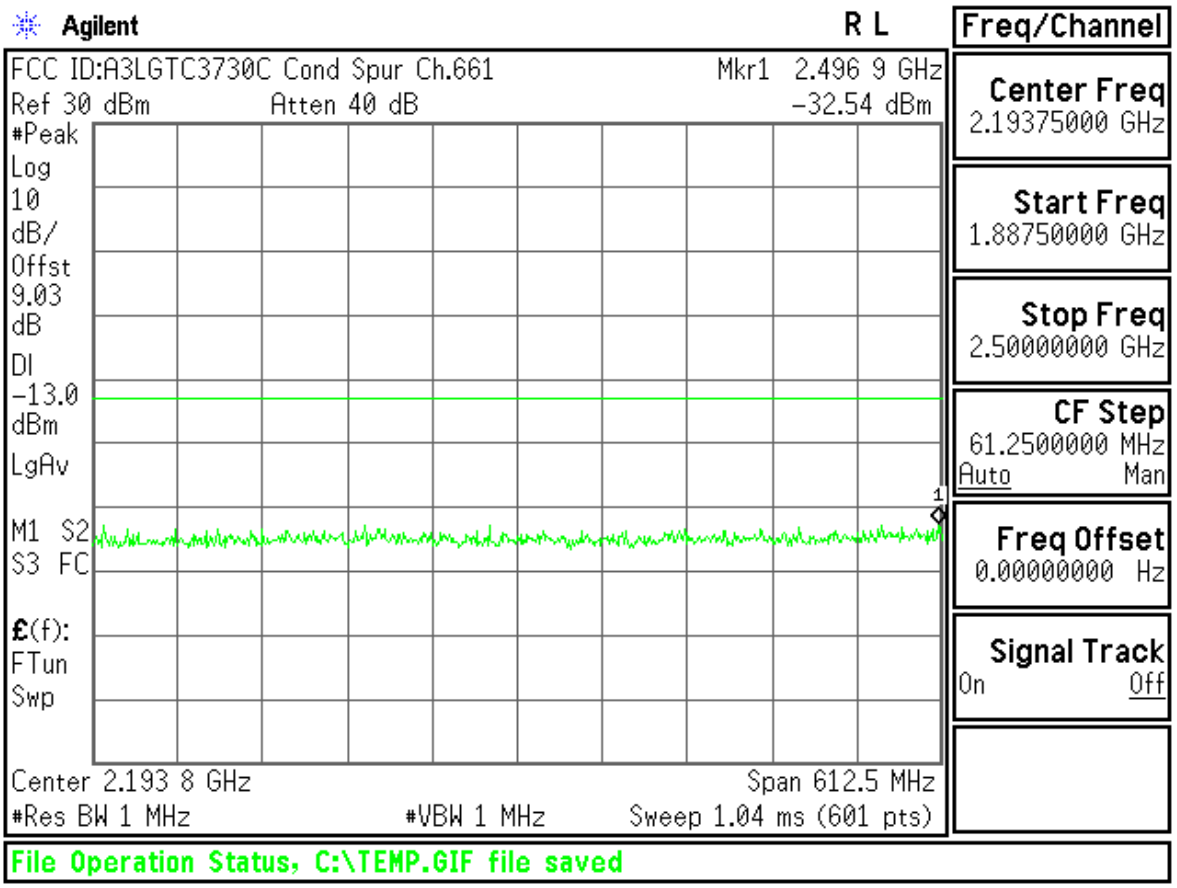

Agilent
R L
Freq/Channel
FCC ID:A3LGTC3730C Cond Spur Ch.512
Mkr1 569 MHz
Ref 30 dBm
Atten 40 dB
-32.59 dBm
#Peak
Log
10
dB/
Offst
9.03
dB
Dl
-13.0
dBm
LgAv
1
M1 S2
S3 FC
£(f):
FTun
Swp
AC Coupled: unspecified below 20 MHz
Center Freq
926.350000 MHz
Start Freq
10.0000000 MHz
Stop Freq
1.84270000 GHz
CF Step
183.270000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 926 MHz
Span 1.833 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 3.08 ms (601 pts)
File Operation Status, C:\TEMP.GIF file saved

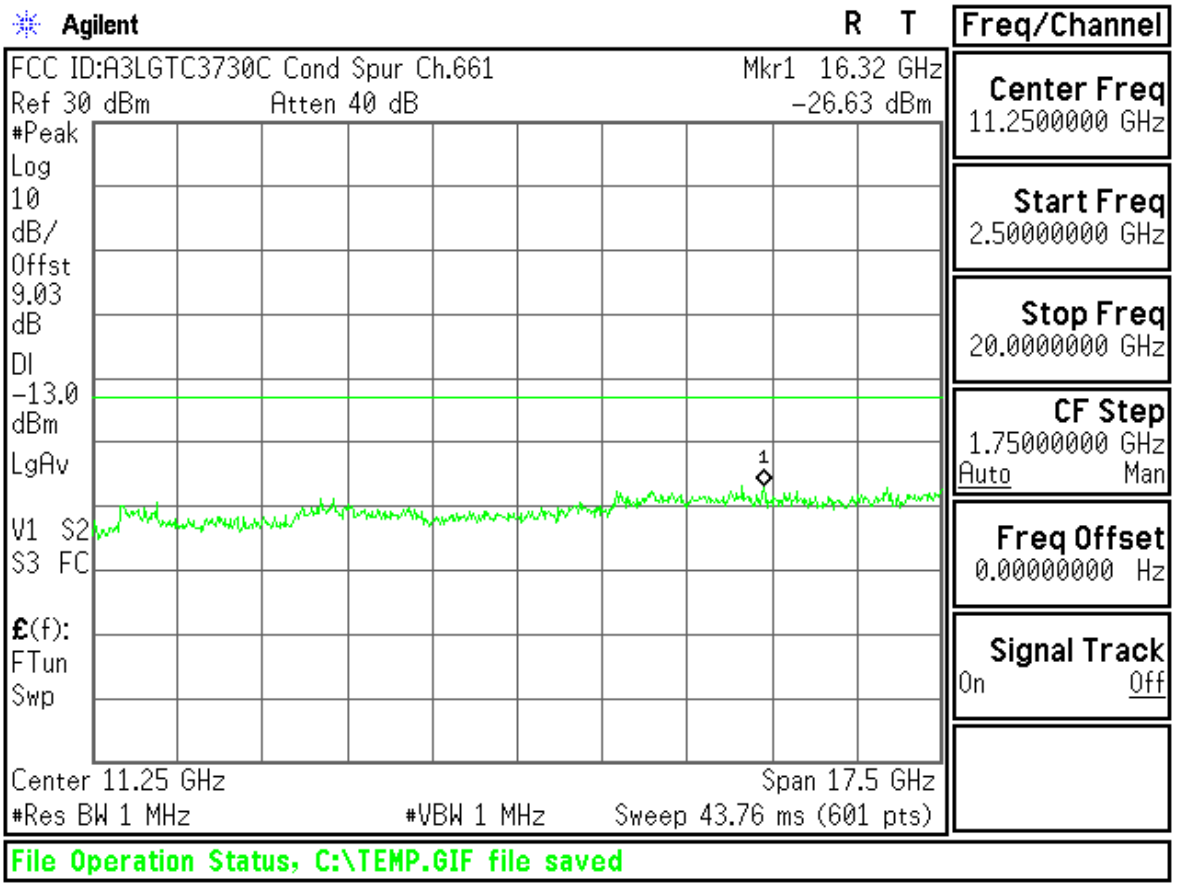

Agilent
R L
Freq/Channel
FCC ID:A3LGTC3730C Cond Spur Ch.512
Mkr1 2.487 2 GHz
Ref 30 dBm
Atten 40 dB
-32.14 dBm
#Peak
Log
10
dB/
Offst
9.03
dB
Dl
-13.0
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Center 2.178 8 GHz
Span 642.3 MHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 1.08 ms (601 pts)
Center Freq
2.17885000 GHz
Start Freq
1.85770000 GHz
Stop Freq
2.50000000 GHz
CF Step
64.2300000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:\TEMP.GIF file saved

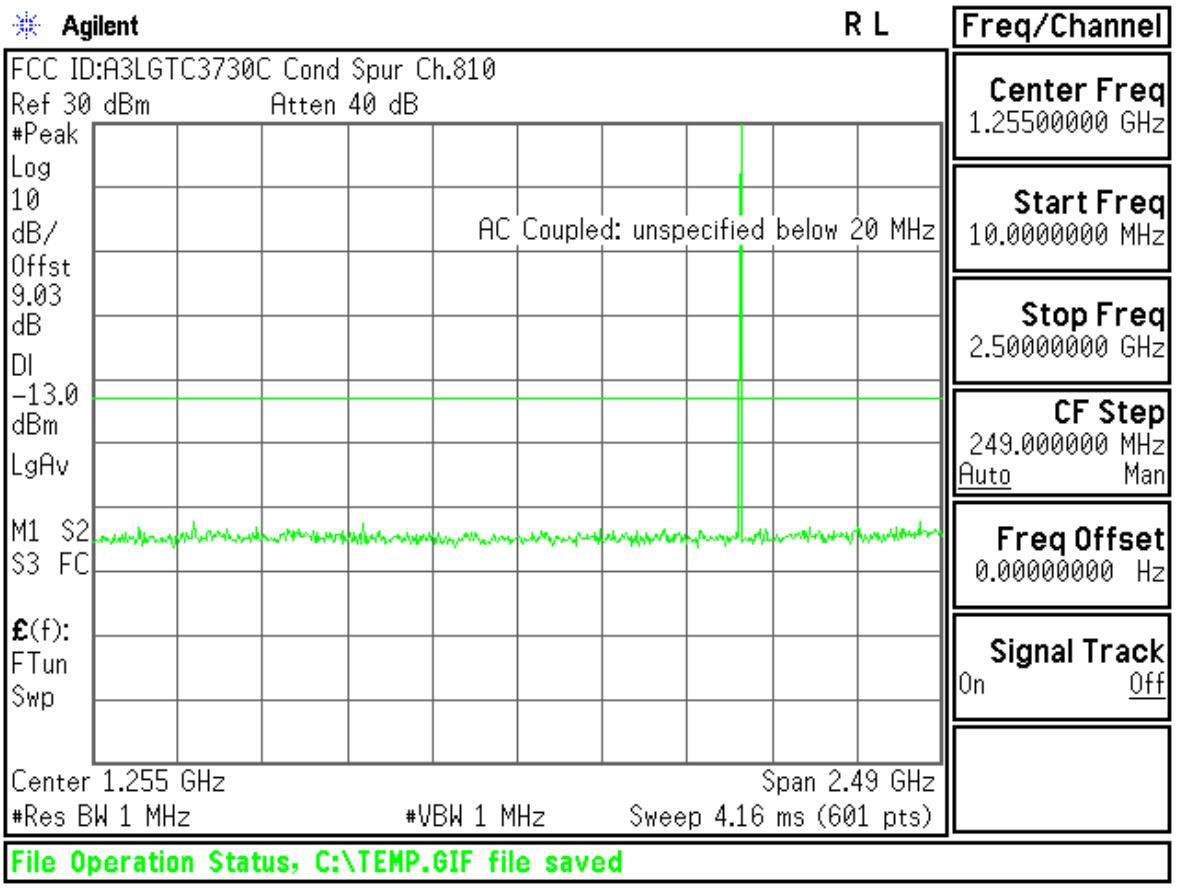

Agilent
R T
Freq/Channel
FCC ID:A3LGTC3730C Cond Spur Ch.512
Mkr1 19.48 GHz
Ref 30 dBm
Atten 40 dB
-26.79 dBm
#Peak
Log
10
dB/
Offst
9.03
dB
Dl
-13.0
dBm
LgAv
V1 S2
S3 FC
£(f):
FTun
Swp
Center 11.25 GHz
Span 17.5 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 43.76 ms (601 pts)
Center Freq
11.2500000 GHz
Start Freq
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

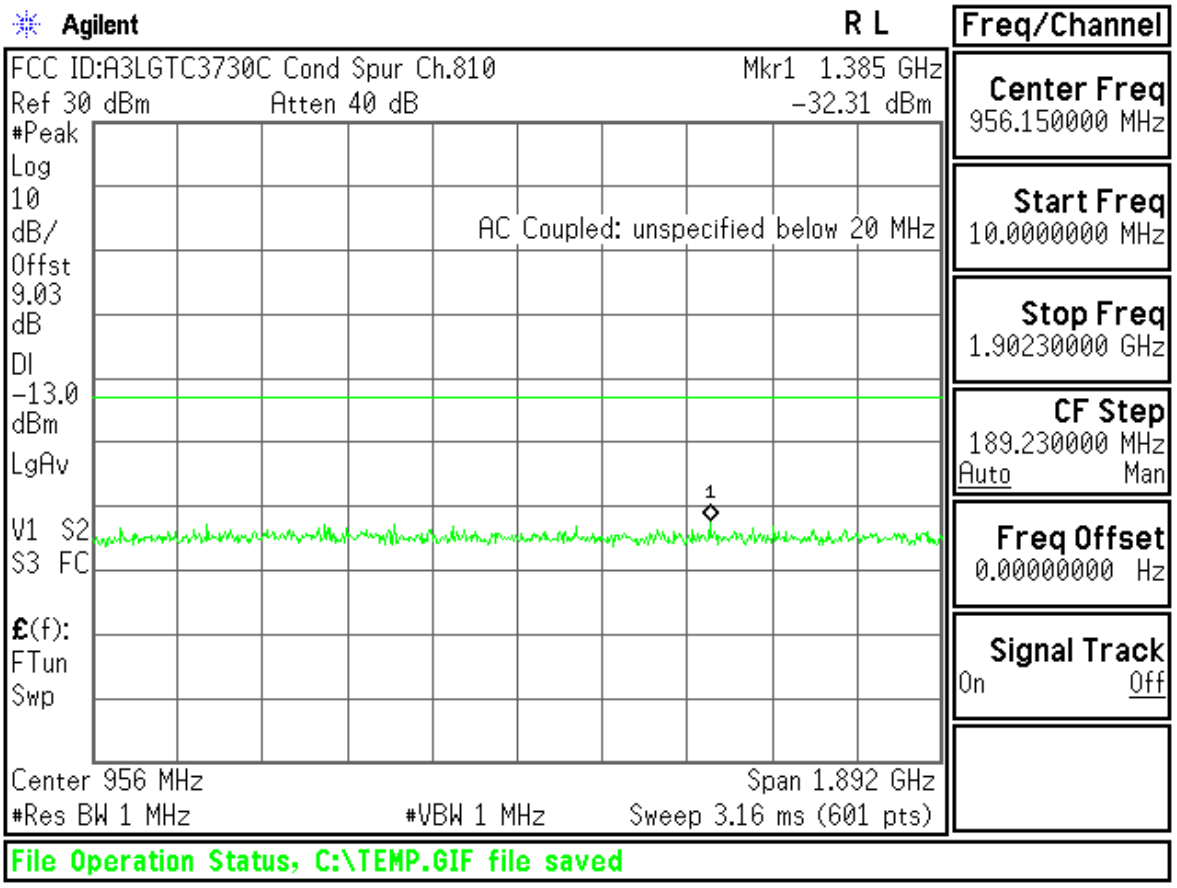

Agilent
R L
Freq/Channel
FCC ID:A3LGTC3730C Cond Spur Ch.661
Ref 30 dBm
Atten 40 dB
#Peak
Log
10
dB/
Offst
9.03
dB
DI
-13.0
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
AC Coupled: unspecified below 20 MHz
Center Freq
1.25500000 GHz
Start Freq
10.0000000 MHz
Stop Freq
2.50000000 GHz
CF Step
249.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 1.255 GHz
Span 2.49 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 4.16 ms (601 pts)
File Operation Status, C:\TEMP.GIF file saved

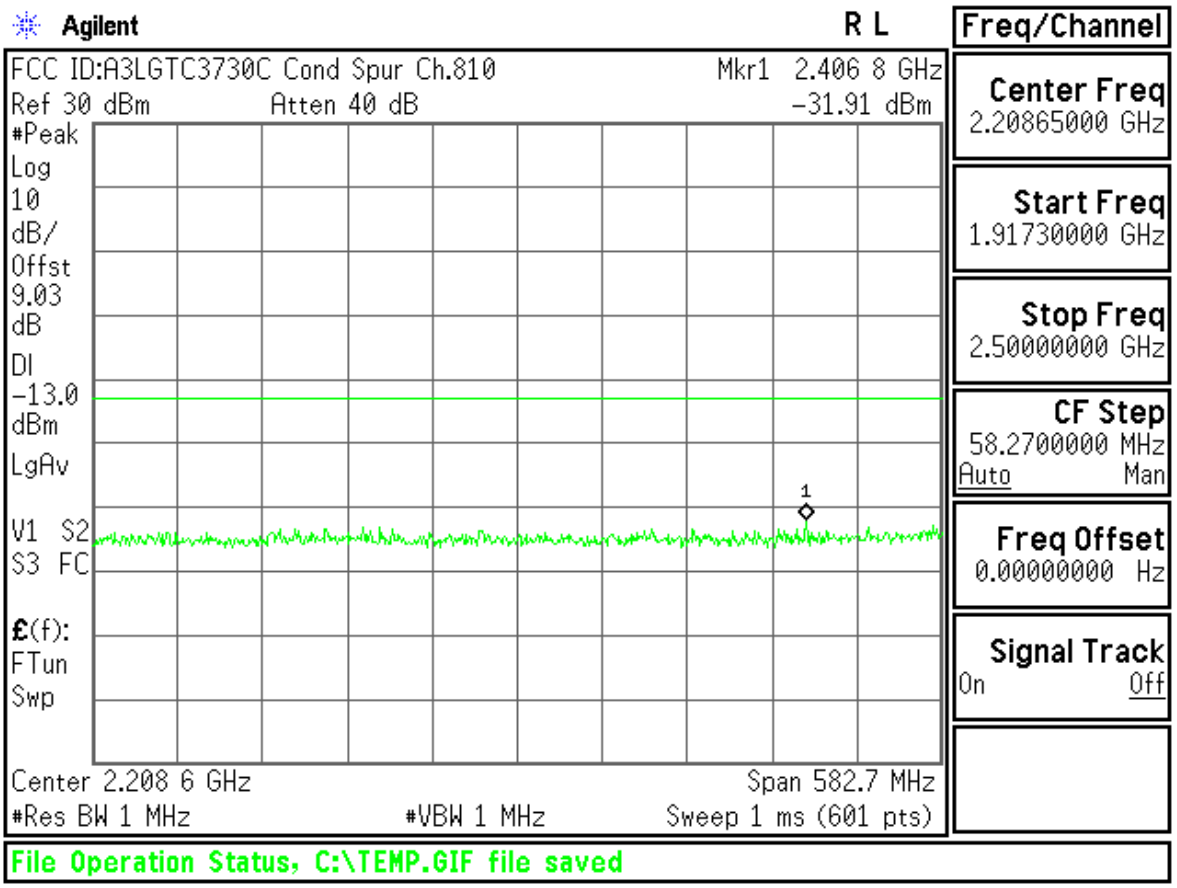

Agilent
R L
Freq/Channel
FCC ID:A3LGTC3730C Cond Spur Ch.661
Mkr1 333 MHz
Ref 30 dBm
Atten 40 dB
-32.65 dBm
#Peak
Log
10
dB/
Offst
9.03
dB
DI
-13.0
dBm
LgAv
1
M1 S2
S3 FC
£(f):
FTun
Swp
AC Coupled: unspecified below 20 MHz
Center Freq
941.250000 MHz
Start Freq
10.0000000 MHz
Stop Freq
1.87250000 GHz
CF Step
186.250000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 941 MHz
Span 1.863 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 3.12 ms (601 pts)
File Operation Status, C:\TEMP.GIF file saved

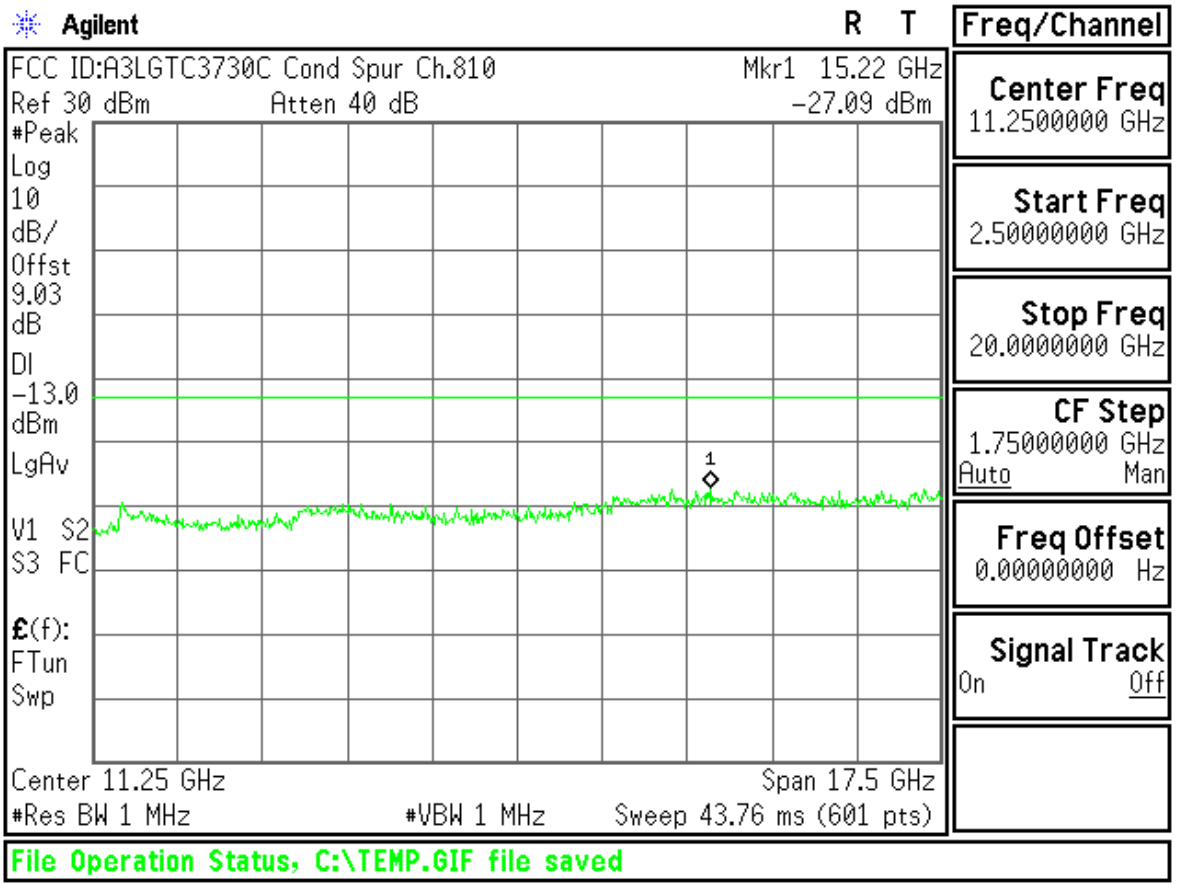

Agilent
R L
Freq/Channel
FCC ID:A3LGTC3730C Cond Spur Ch.661
Mkr1 2.496 9 GHz
Ref 30 dBm
Atten 40 dB
-32.54 dBm
#Peak
Log
10
dB/
Offst
9.03
dB
Dl
-13.0
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
Center Freq
2.19375000 GHz
Start Freq
1.88750000 GHz
Stop Freq
2.50000000 GHz
CF Step
61.2500000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 2.193 8 GHz
Span 612.5 MHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 1.04 ms (601 pts)
File Operation Status, C:\TEMP.GIF file saved

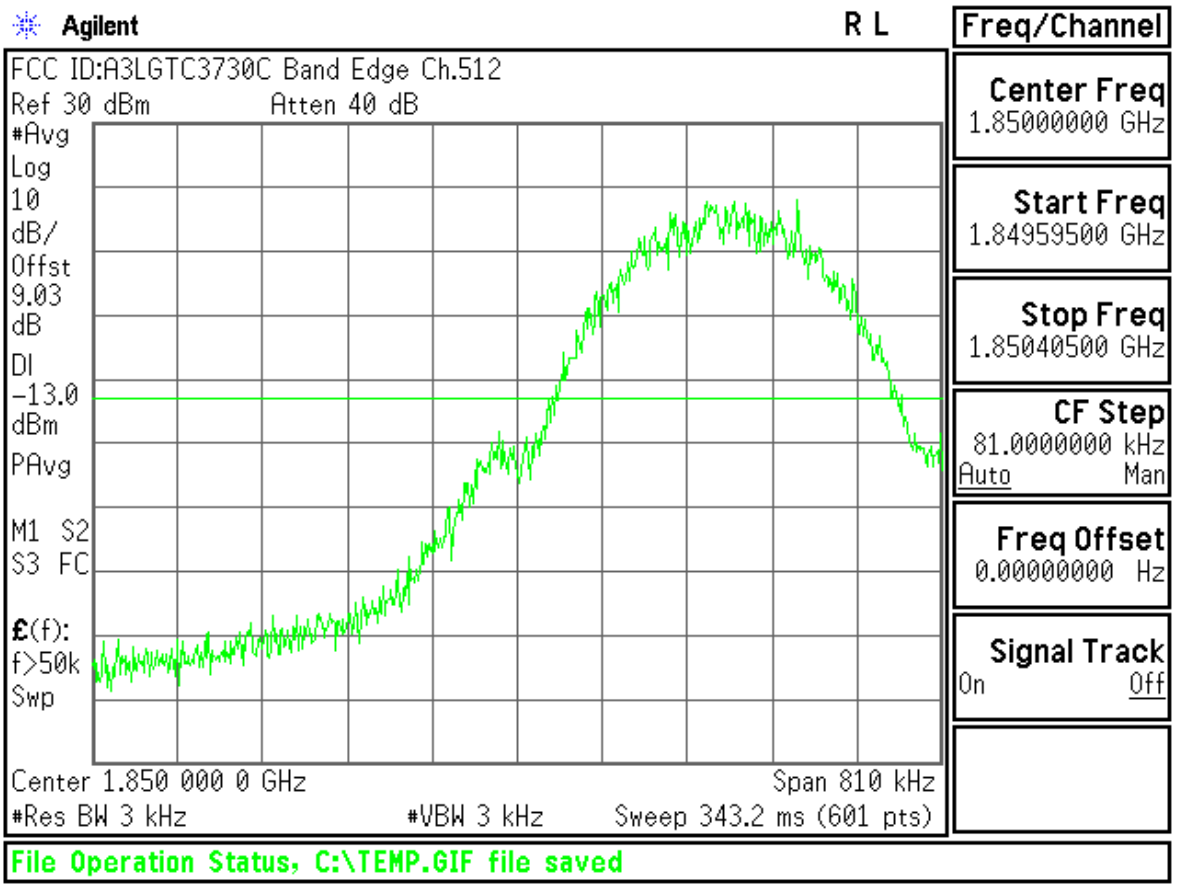

Agilent
R T
Freq/Channel
FCC ID:A3LGTC3730C Cond Spur Ch.661
Mkr1 16.32 GHz
Ref 30 dBm
Atten 40 dB
-26.63 dBm
#Peak
Log
10
dB/
Offst
9.03
dB
Dl
-13.0
dBm
LgAv
V1 S2
S3 FC
£(f):
FTun
Swp
Center Freq
11.2500000 GHz
Start Freq
2.50000000 GHz
Stop Freq
20.0000000 GHz
CF Step
1.75000000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 11.25 GHz
Span 17.5 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 43.76 ms (601 pts)
File Operation Status, C:\TEMP.GIF file saved

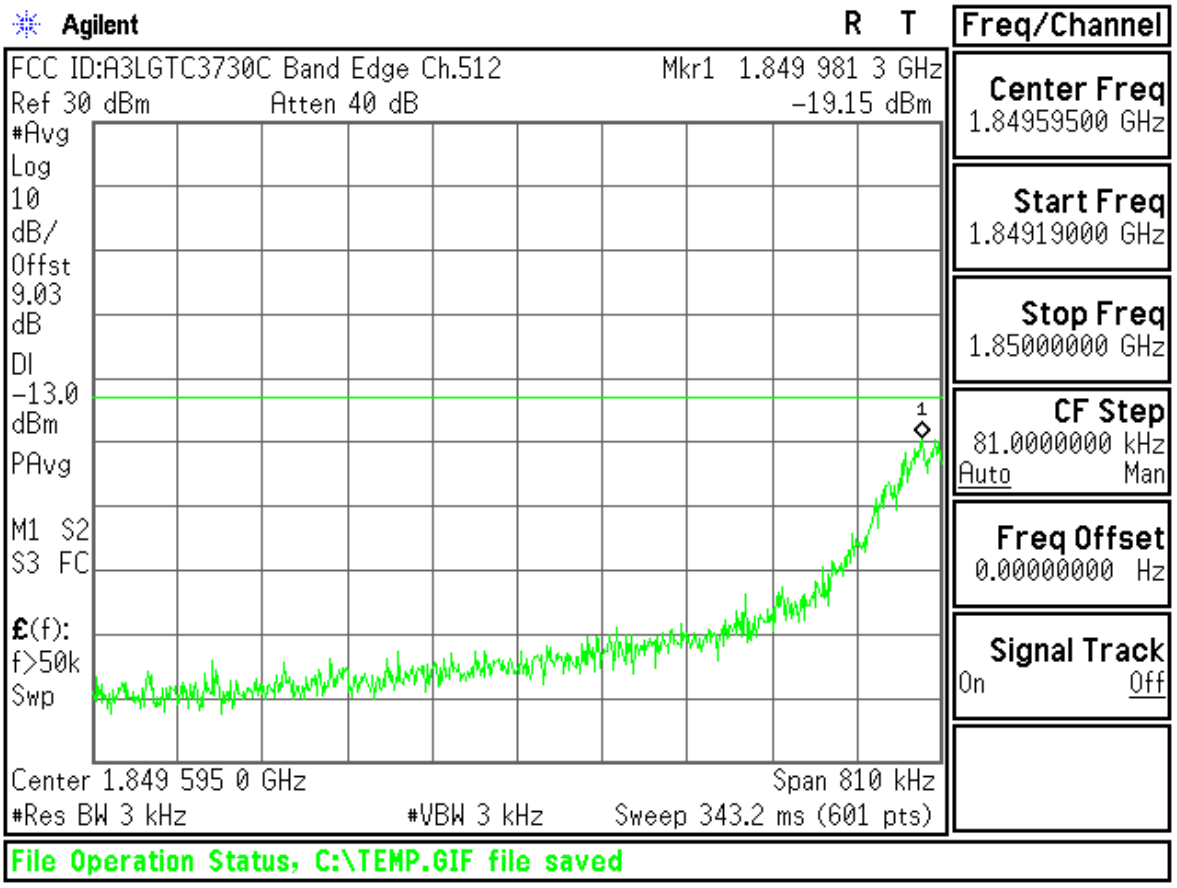

Agilent
R L
Freq/Channel
FCC ID:A3LGTC3730C Cond Spur Ch.810
Ref 30 dBm
Atten 40 dB
#Peak
Log
10
dB/
Offst
9.03
dB
DI
-13.0
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
AC Coupled: unspecified below 20 MHz
Center Freq
1.25500000 GHz
Start Freq
10.0000000 MHz
Stop Freq
2.50000000 GHz
CF Step
249.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 1.255 GHz
Span 2.49 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 4.16 ms (601 pts)
File Operation Status, C:\TEMP.GIF file saved

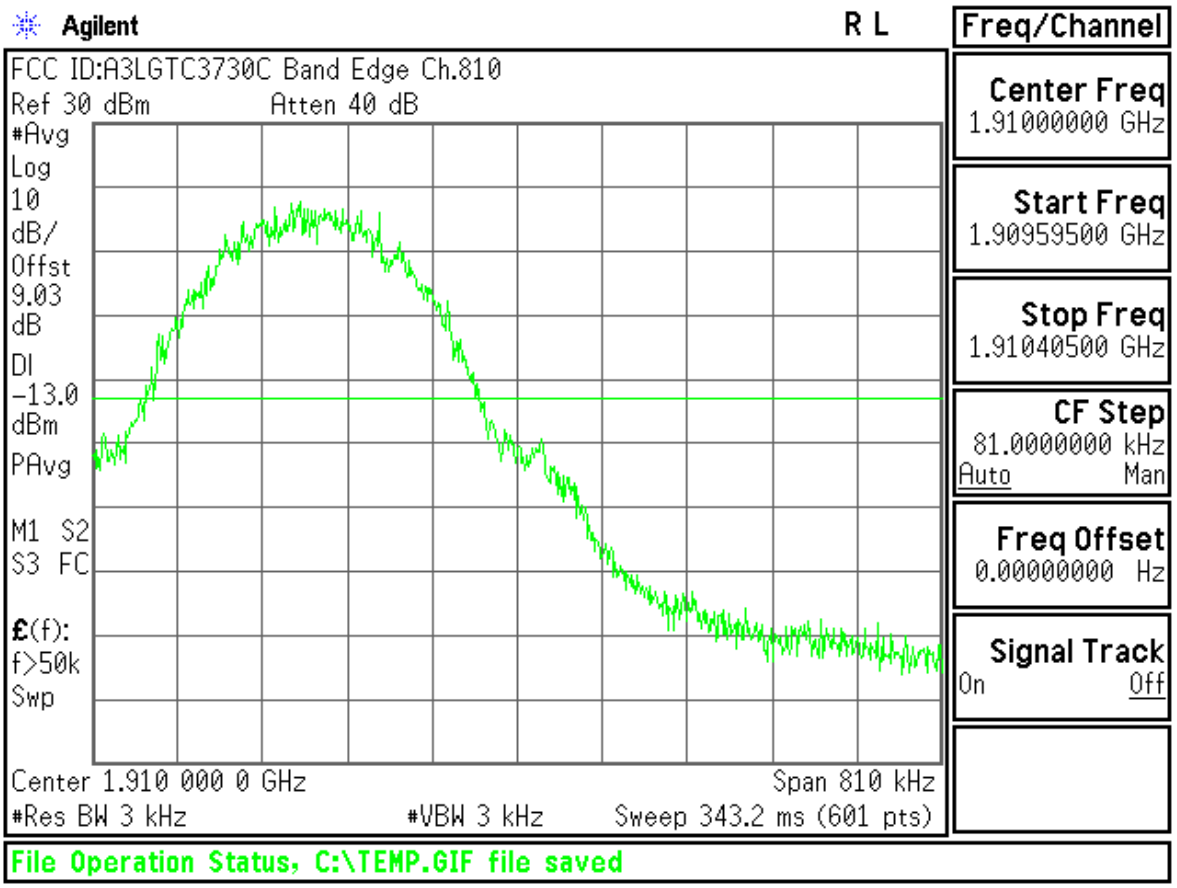

Agilent
R L
Freq/Channel
FCC ID:A3LGTC3730C Cond Spur Ch.810
Mkr1 1.385 GHz
Ref 30 dBm
Atten 40 dB
-32.31 dBm
#Peak
Log
10
dB/
Offst
9.03
dB
DI
-13.0
dBm
LgAv
V1 S2
S3 FC
£(f):
FTun
Swp
AC Coupled: unspecified below 20 MHz
1
Center Freq
956.150000 MHz
Start Freq
10.0000000 MHz
Stop Freq
1.90230000 GHz
CF Step
189.230000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 956 MHz
Span 1.892 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 3.16 ms (601 pts)
File Operation Status, C:\TEMP.GIF file saved

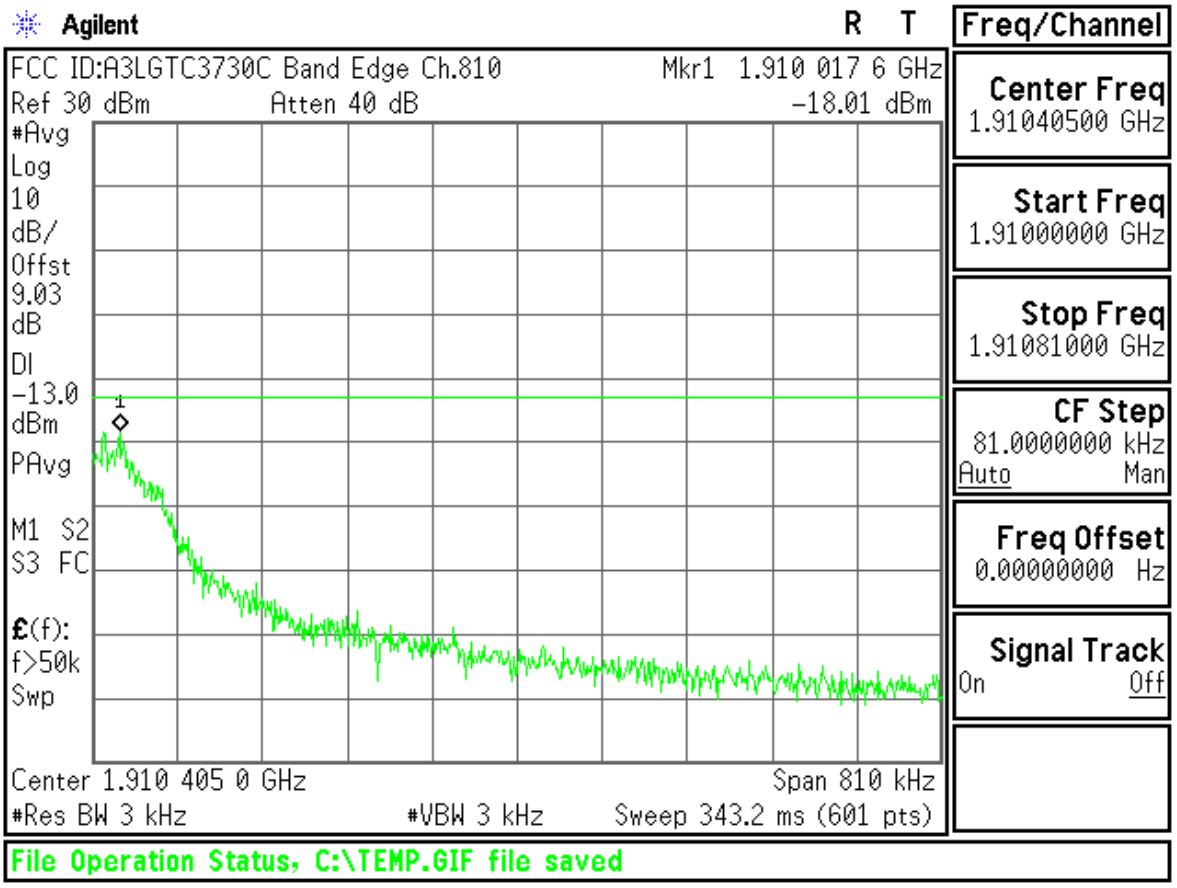

Agilent
R L
Freq/Channel
FCC ID:A3LGTC3730C Cond Spur Ch.810
Mkr1 2.406 8 GHz
Ref 30 dBm
Atten 40 dB
-31.91 dBm
#Peak
Log
10
dB/
Offst
9.03
dB
Dl
-13.0
dBm
LgAv
V1 S2
S3 FC
£(f):
FTun
Swp
1
Center 2.208 6 GHz
Span 582.7 MHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 1 ms (601 pts)
Center Freq
2.20865000 GHz
Start Freq
1.91730000 GHz
Stop Freq
2.50000000 GHz
CF Step
58.2700000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:\TEMP.GIF file saved

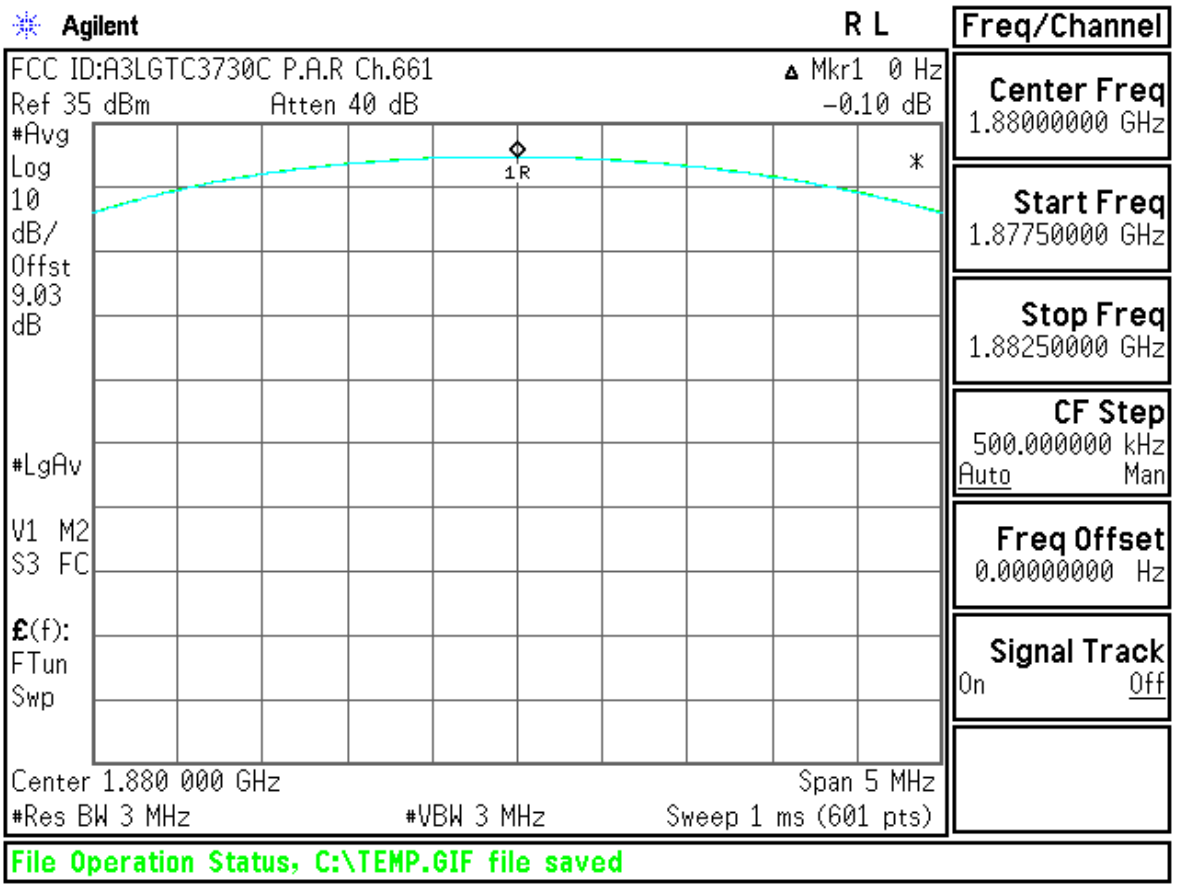

Agilent
R T
Freq/Channel
FCC ID:A3LGTC3730C Cond Spur Ch.810
Mkr1 15.22 GHz
Ref 30 dBm
Atten 40 dB
-27.09 dBm
#Peak
Log
10
dB/
Offst
9.03
dB
Dl
-13.0
dBm
LgAv
V1 S2
S3 FC
£(f):
FTun
Swp
1
Center 11.25 GHz
Span 17.5 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 43.76 ms (601 pts)
Center Freq
11.2500000 GHz
Start 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
Freq/Channel
FCC ID:A3LGTC3730C Band Edge Ch.512
Ref 30 dBm
Atten 40 dB
#Avg
Log
10
dB/
Offst
9.03
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
f>50k
Swp
Center 1.850 000 0 GHz
Span 810 kHz
#Res BW 3 kHz
#VBW 3 kHz
Sweep 343.2 ms (601 pts)
Center Freq
1.85000000 GHz
Start Freq
1.84959500 GHz
Stop Freq
1.85040500 GHz
CF Step
81.0000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:\TEMP.GIF file saved

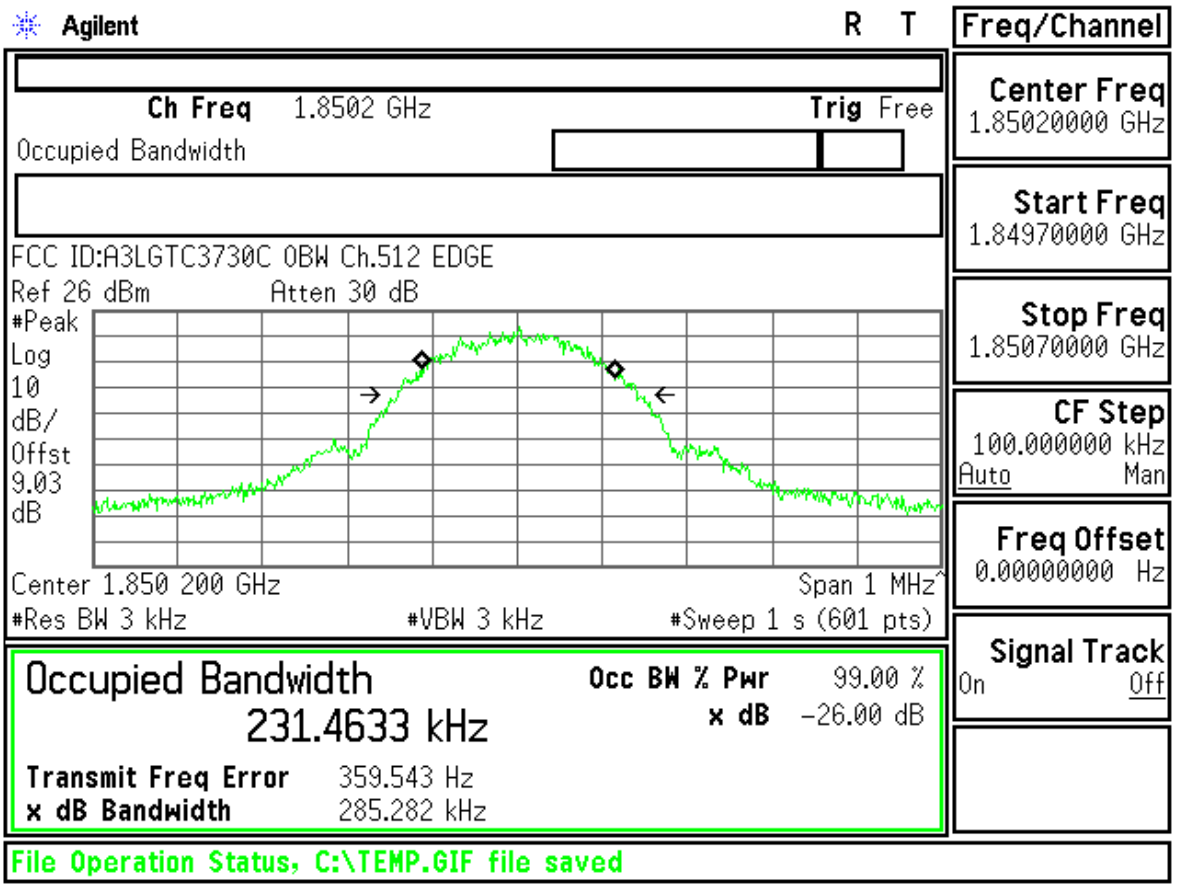

Agilent
R T
Freq/Channel
FCC ID:A3LGTC3730C Band Edge Ch.512
Mkr1 1.849 981 3 GHz
Ref 30 dBm
Atten 40 dB
-19.15 dBm
#Avg
Log
10
dB/
Offst
9.03
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
f>50k
Swp
Center 1.849 595 0 GHz
Span 810 kHz
#Res BW 3 kHz
#VBW 3 kHz
Sweep 343.2 ms (601 pts)
Center Freq
1.84959500 GHz
Start Freq
1.84919000 GHz
Stop Freq
1.85000000 GHz
CF Step
81.0000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:\TEMP.GIF file saved

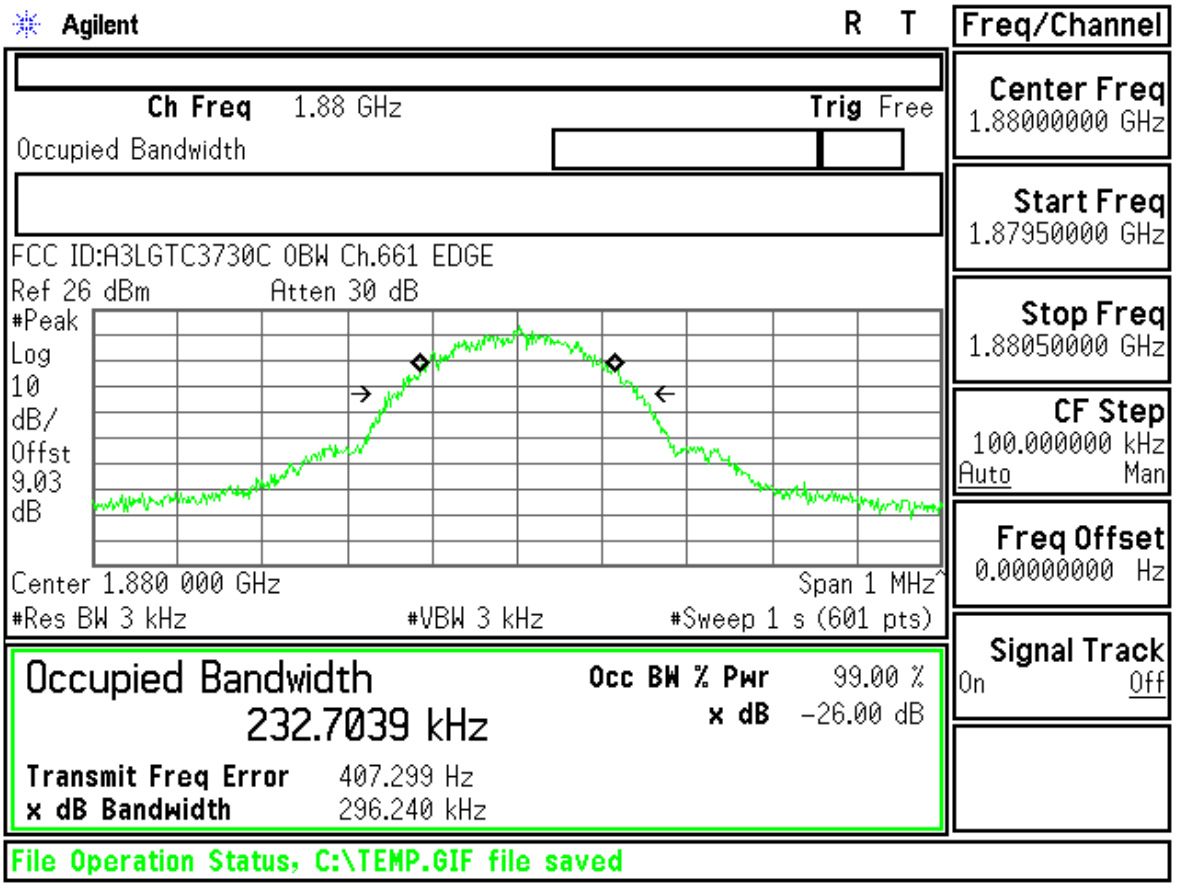

Agilent
R L
Freq/Channel
FCC ID:A3LGTC3730C Band Edge Ch.810
Ref 30 dBm
Atten 40 dB
#Avg
Log
10
dB/
Offst
9.03
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
f>50k
Swp
Center 1.910 000 0 GHz
Span 810 kHz
#Res BW 3 kHz
#VBW 3 kHz
Sweep 343.2 ms (601 pts)
Center Freq
1.91000000 GHz
Start Freq
1.90959500 GHz
Stop Freq
1.91040500 GHz
CF Step
81.0000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:\TEMP.GIF file saved

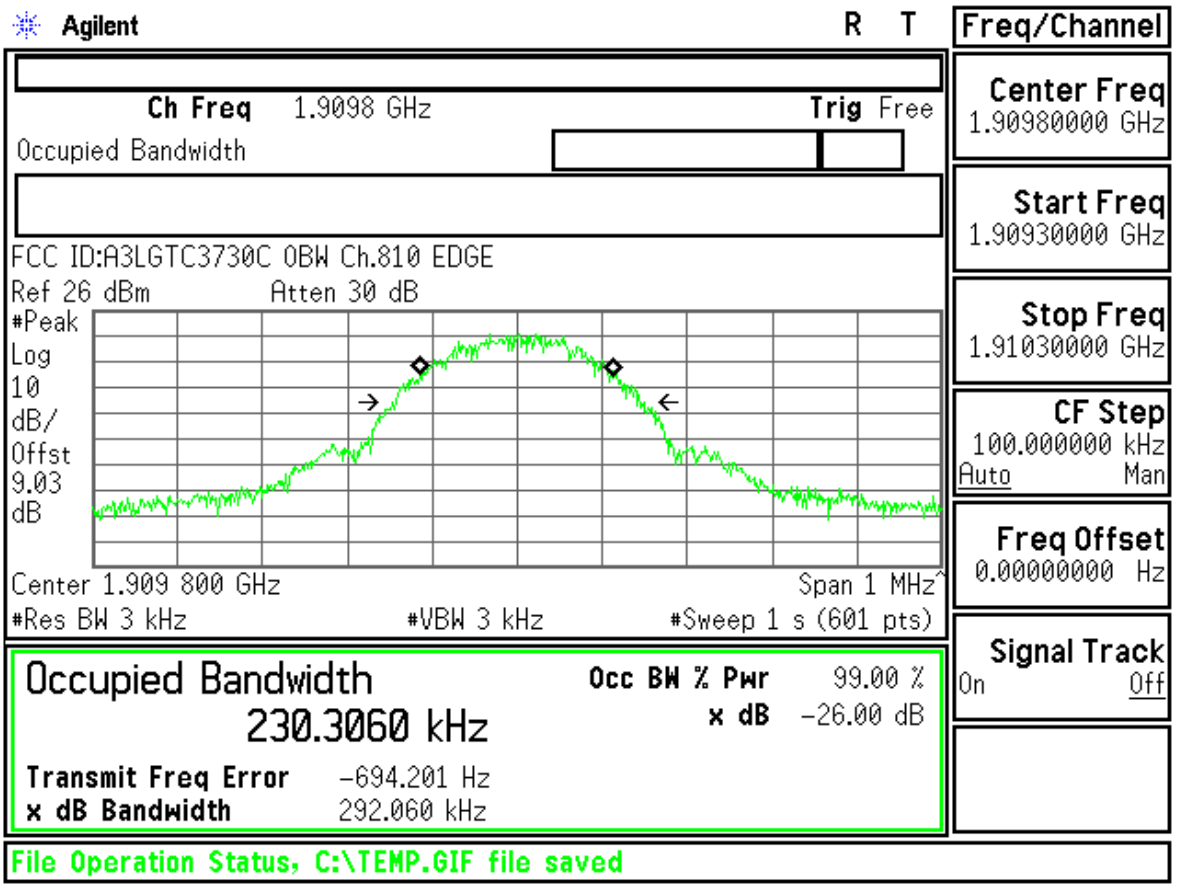

Agilent
R T
Freq/Channel
FCC ID:A3LGTC3730C Band Edge Ch.810
Mkr1 1.910 017 6 GHz
Ref 30 dBm
Atten 40 dB
-18.01 dBm
#Avg
Log
10
dB/
Offst
9.03
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
f>50k
Swp
Center 1.910 405 0 GHz
Span 810 kHz
#Res BW 3 kHz
#VBW 3 kHz
Sweep 343.2 ms (601 pts)
Center Freq
1.91040500 GHz
Start Freq
1.91000000 GHz
Stop Freq
1.91081000 GHz
CF Step
81.0000000 kHz
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:A3LGTC3730C P.A.R Ch.661
Mkr1 0 Hz
Ref 35 dBm
Atten 40 dB
-0.10 dB
#Avg
Log
10
dB/
Offst
9.03
dB
1R
#LgAv
V1 M2
S3 FC
£(f):
FTun
Swp
Center 1.880 000 GHz
Span 5 MHz
#Res BW 3 MHz
#VBW 3 MHz
Sweep 1 ms (601 pts)
Center Freq
1.88000000 GHz
Start Freq
1.87750000 GHz
Stop Freq
1.88250000 GHz
CF Step
500.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:\TEMP.GIF file saved

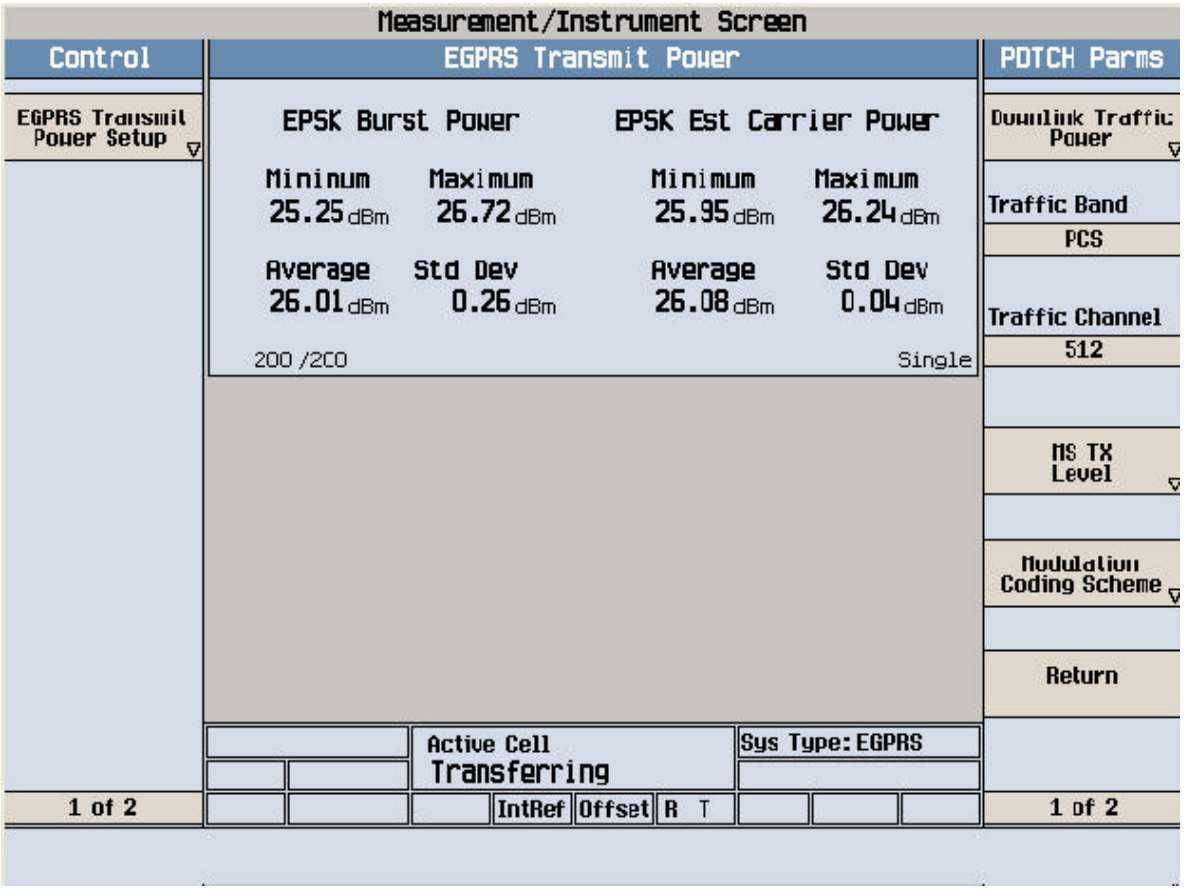
EDGE1900


Agilent
R T
Freq/Channel
Ch Freq 1.8502 GHz
Trig Free
Occupied Bandwidth
FCC ID:A3LGTC3730C OBW Ch.512 EDGE
Ref 26 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
9.03
dB
Center 1.850 200 GHz
Span 1 MHz
#Res BW 3 kHz
#VBW 3 kHz
#Sweep 1 s (601 pts)
Occupied Bandwidth
231.4633 kHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error 359.543 Hz
x dB Bandwidth 285.282 kHz
Center Freq
1.85020000 GHz
Start Freq
1.84970000 GHz
Stop Freq
1.85070000 GHz
CF Step
100.000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:\TEMP.GIF file saved

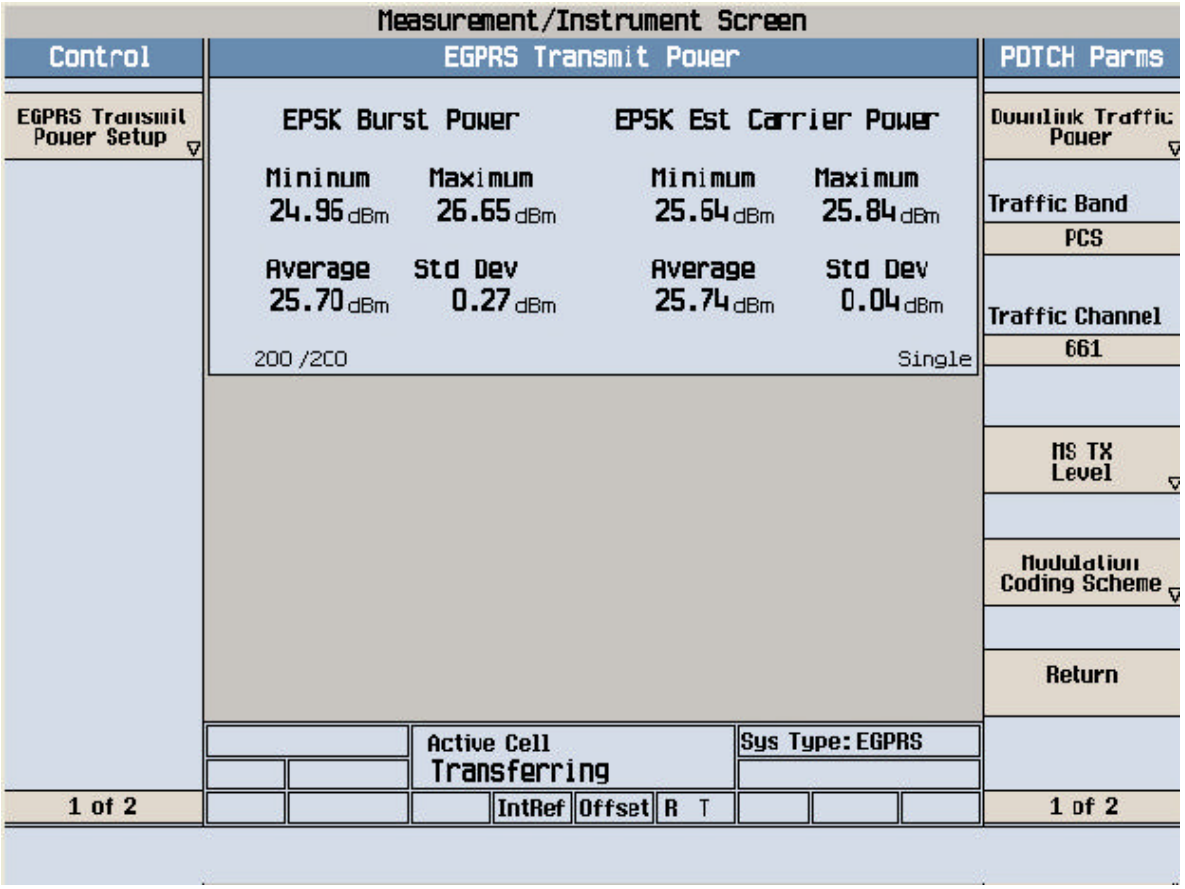

Agilent
R T
Freq/Channel
Ch Freq 1.88 GHz
Trig Free
Occupied Bandwidth
FCC ID:A3LGTC3730C OBW Ch.661 EDGE
Ref 26 dBm
Atten 30 dB
#Peak
Log
10
dB/
Offst
9.03
dB
Center 1.880 000 GHz
Span 1 MHz
#Res BW 3 kHz
#VBW 3 kHz
#Sweep 1 s (601 pts)
Occupied Bandwidth
232.7039 kHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error 407.299 Hz
x dB Bandwidth 296.240 kHz
Center Freq
1.88000000 GHz
Start Freq
1.87950000 GHz
Stop Freq
1.88050000 GHz
CF Step
100.000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:\TEMP.GIF file saved



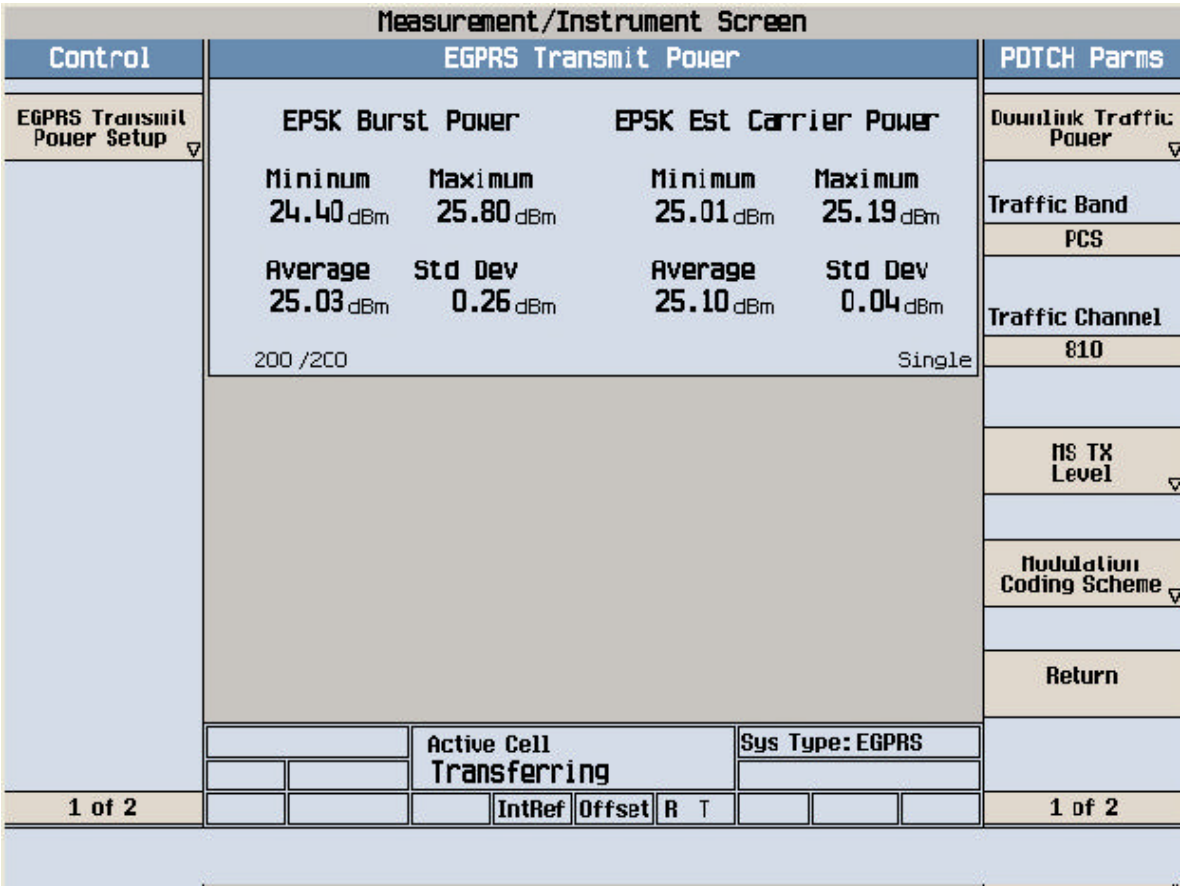
FCC ID : A3LGTC3730C Transmit Power 512CH EDGE

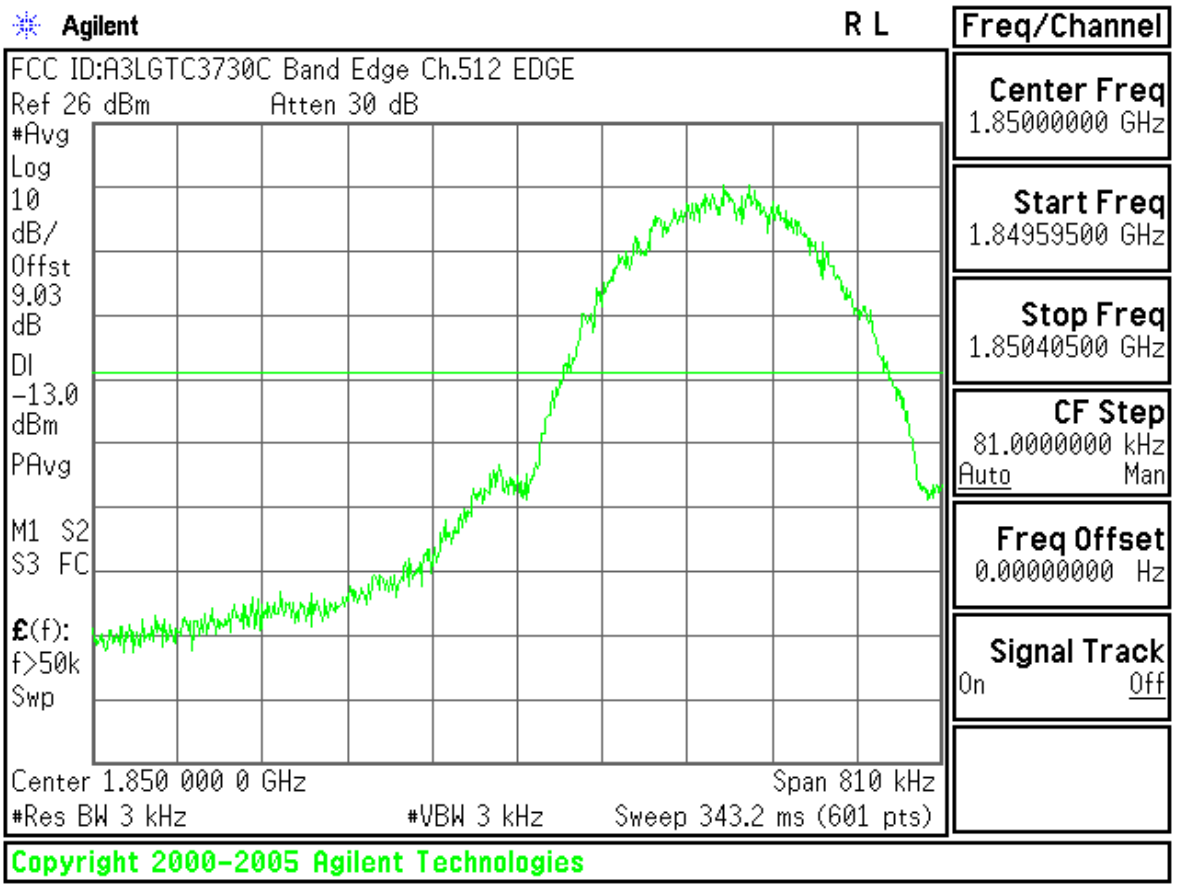


FCC ID : A3LGTC3730C Transmit Power 661CH EDGE



FCC ID : A3LGTC3730C Transmit Power 810CH EDGE




Agilent
R L
Freq/Channel
FCC ID:A3LGTC3730C Band Edge Ch.512 EDGE
Ref 26 dBm
Atten 30 dB
#Avg
Log
10
dB/
Offst
9.03
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
f>50k
Swp
Center 1.850 000 0 GHz
Span 810 kHz
#Res BW 3 kHz
#VBW 3 kHz
Sweep 343.2 ms (601 pts)
Center Freq
1.85000000 GHz
Start Freq
1.84959500 GHz
Stop Freq
1.85040500 GHz
CF Step
81.0000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
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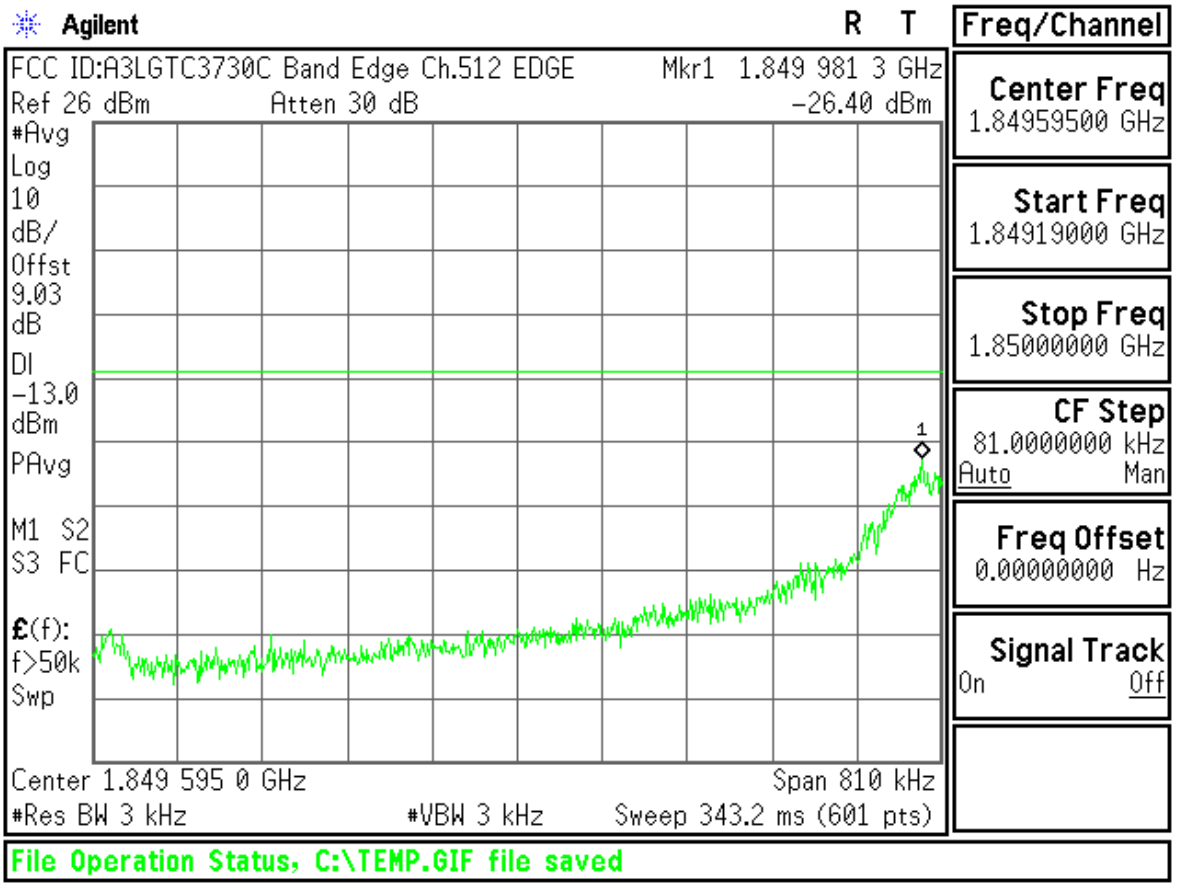
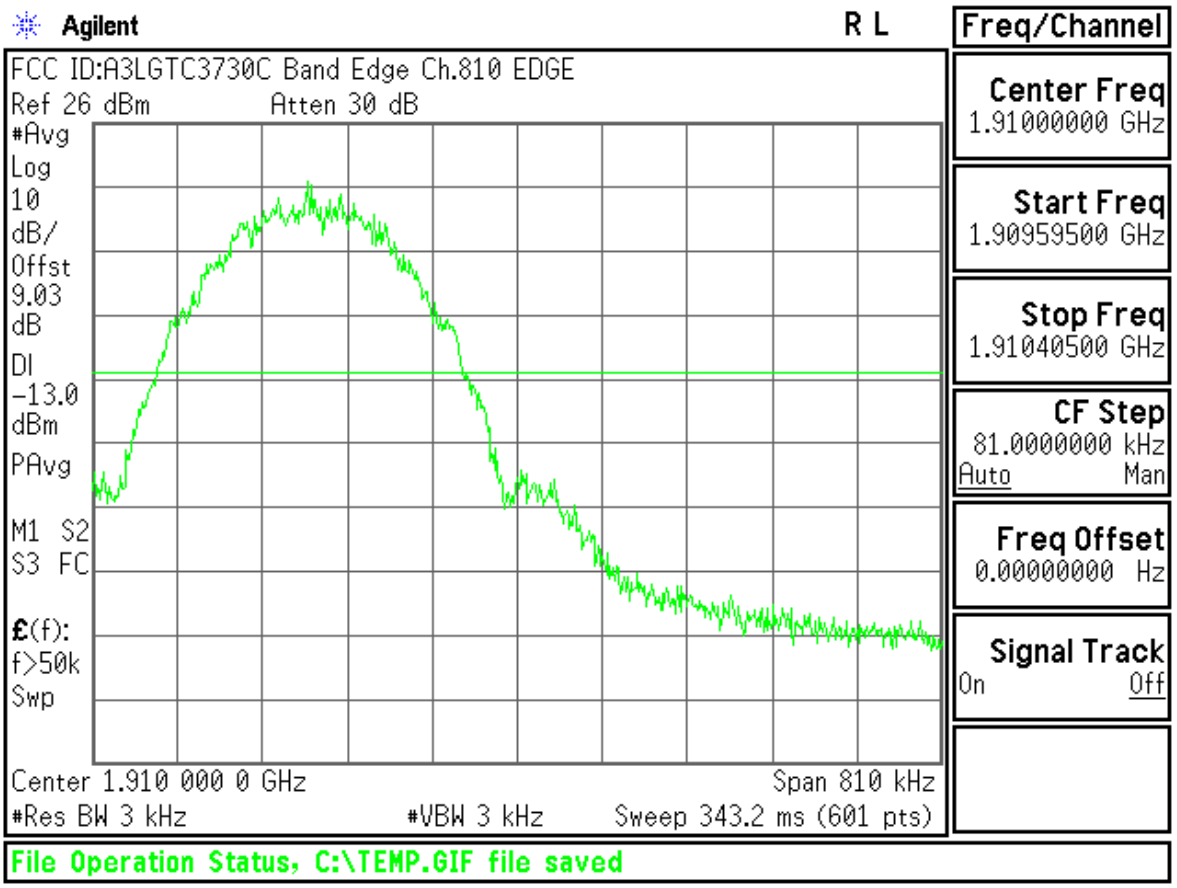
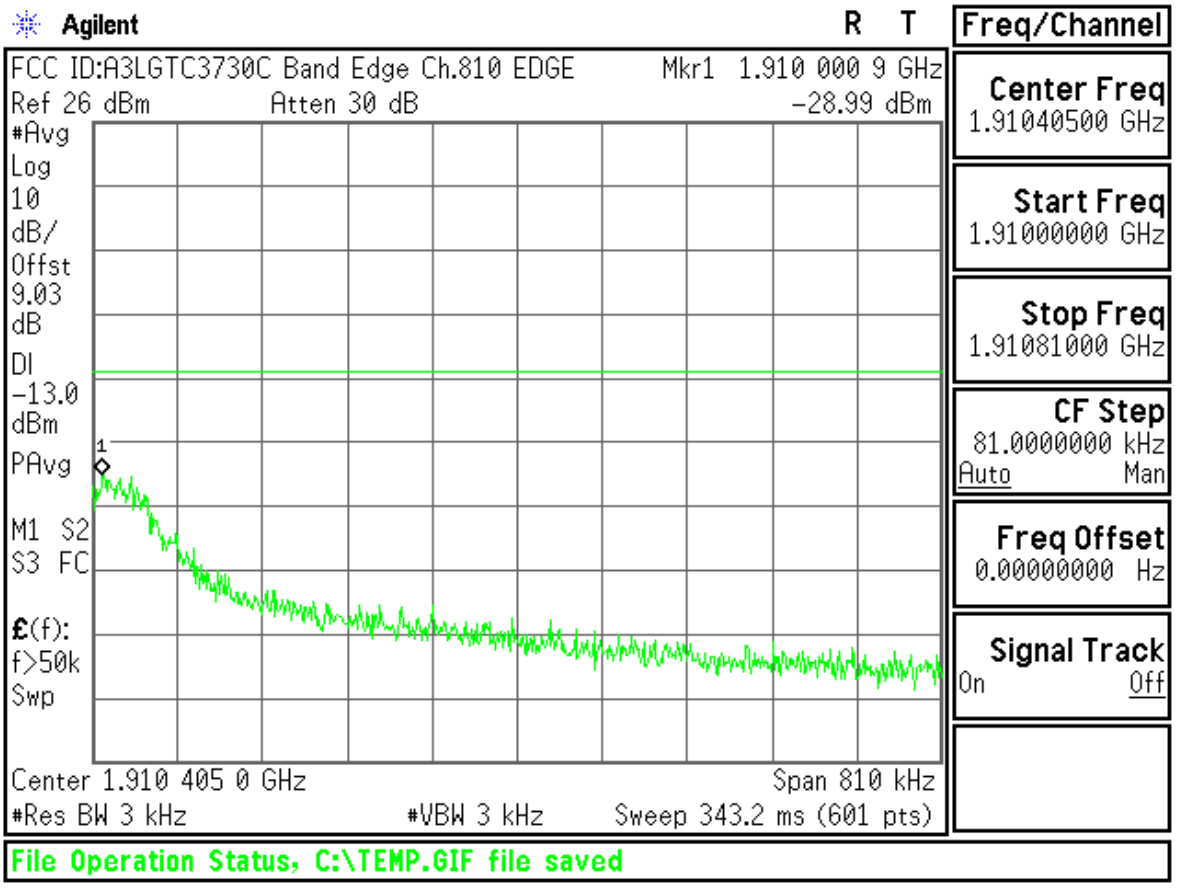
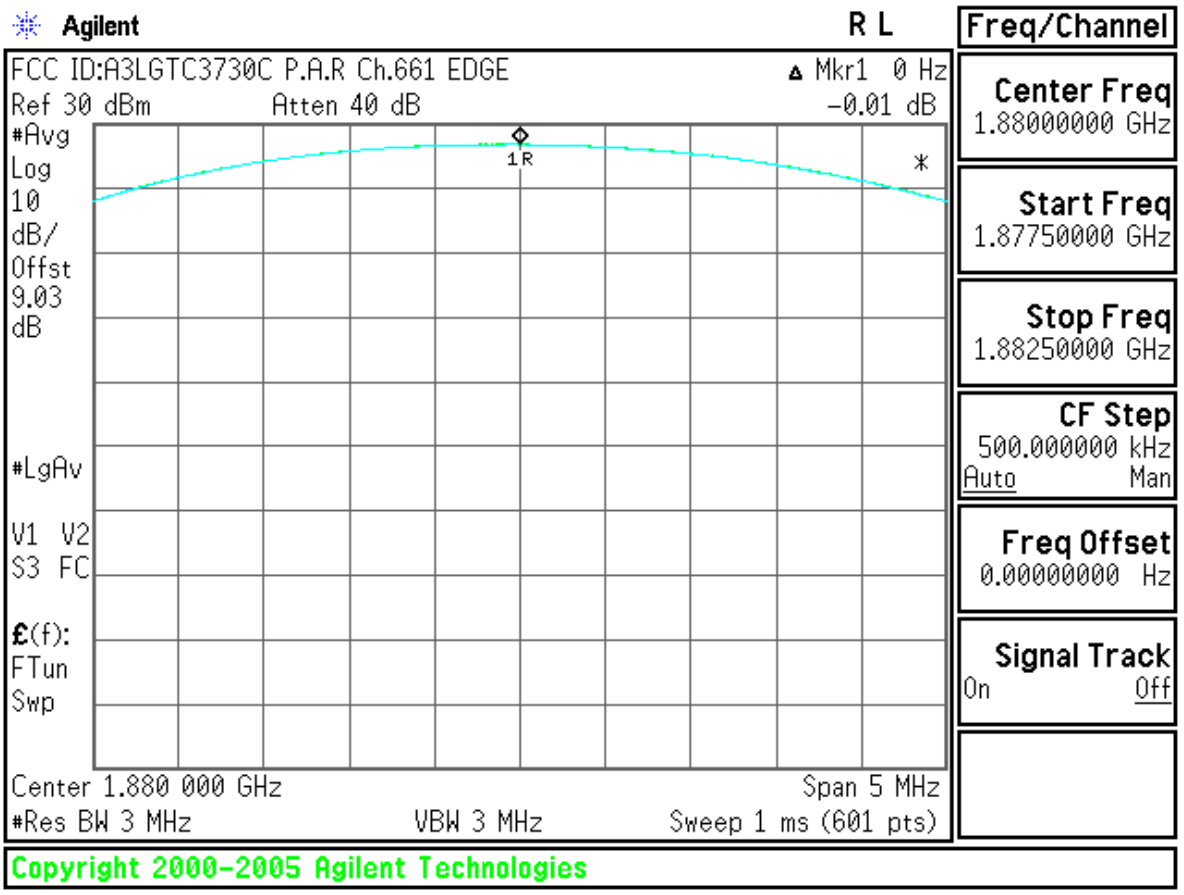

Agilent
R T
Freq/Channel
FCC ID:A3LGTC3730C Band Edge Ch.512 EDGE
Mkr1 1.849 981 3 GHz
Ref 26 dBm
Atten 30 dB
-26.40 dBm
#Avg
Log
10
dB/
Offst
9.03
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
f>50k
Swp
Center 1.849 595 0 GHz
Span 810 kHz
#Res BW 3 kHz
#VBW 3 kHz
Sweep 343.2 ms (601 pts)
Center Freq
1.84959500 GHz
Start Freq
1.84919000 GHz
Stop Freq
1.85000000 GHz
CF Step
81.0000000 kHz
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:A3LGTC3730C Band Edge Ch.810 EDGE
Ref 26 dBm
Atten 30 dB
#Avg
Log
10
dB/
Offst
9.03
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
f>50k
Swp
Center 1.910 000 0 GHz
Span 810 kHz
#Res BW 3 kHz
#VBW 3 kHz
Sweep 343.2 ms (601 pts)
Center Freq
1.91000000 GHz
Start Freq
1.90959500 GHz
Stop Freq
1.91040500 GHz
CF Step
81.0000000 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
FCC ID:A3LGTC3730C Band Edge Ch.810 EDGE
Mkr1 1.910 000 9 GHz
Ref 26 dBm
Atten 30 dB
-28.99 dBm
#Avg
Log
10
dB/
Offst
9.03
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FC
£(f):
f>50k
Swp
Center 1.910 405 0 GHz
Span 810 kHz
#Res BW 3 kHz
#VBW 3 kHz
Sweep 343.2 ms (601 pts)
Center Freq
1.91040500 GHz
Start Freq
1.91000000 GHz
Stop Freq
1.91081000 GHz
CF Step
81.0000000 kHz
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:A3LGTC3730C P.A.R Ch.661 EDGE
Mkr1 0 Hz
Ref 30 dBm
Atten 40 dB
-0.01 dB
#Avg
Log
10
dB/
Offst
9.03
dB
1R
#LgAv
V1 V2
S3 FC
£(f):
FTun
Swp
Center Freq
1.88000000 GHz
Start Freq
1.87750000 GHz
Stop Freq
1.88250000 GHz
CF Step
500.000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 1.880 000 GHz
Span 5 MHz
#Res BW 3 MHz
VBW 3 MHz
Sweep 1 ms (601 pts)
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