



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-C3230
FCC ID (Requested) : A3LGTC3230
Report No : FH-070-R1
Job No : FH-070
Date issued : May 4, 2010

- Abstract -

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

Prepared By

KJ KWON – 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 : A3LGTC3230
- Model : GT-C3230
- Quantity : Quantity production is planned
- Emission Designators : 251KGXW(GSM1900), 249KG7W(GSM1900 EDGE)
- Tx Freq. Range : 1850.2MHz -1909.8MHz (GSM1900)
- Rx Freq. Range : 1930.2MHz - 1989.8MHz (GSM1900)
- Max. Power Rating : 0.927 W EIRP GSM1900 (29.67 dBm)
0.404 W EIRP GSM1900 EDGE(26.06 dBm)
- FCC Classification(s) : PCS Licensed Portable Tx Held to Ear (PCE)
- Equipment (EUT) Type : 1900 GSM/EDGE/GPRS Phone with Bluetooth
- Frequency Tolerance : $\pm 0.00025\%$ (2.5ppm)
- FCC Rule Part(s) : §24(E), §2.
- Dates of Test : April 13-14, 2010
- Place of Test : SAMSUNG Lab,
- Test Report S/N : FH-070-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 at 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	2011-03-08
	E4440A(3Hz~26.5GHz)	MY41000236	2011-04-13
Network Analyzer	8753E	JP38160590	2010-06-19
Pre-Amplifier	8449B	3008A00691	2010-12-15
Communication test set	8960	MY47510060	2011-03-08
	8960	GB42230535	2010-12-18
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	360306/011	2010-06-13
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	2011-03-05
Divider	11636B	51946	2011-06-25
	11636B	51942	2011-07-09
	11636B	56918	2011-08-31
High Pass Filter	WHK/3.0/18G-10SS	492	Not Required
	WHK/3.5/18G-10SS	4	Not Required
Environmental Chamber	SH-241	92000549	2010-11-11
	SH-241	92000548	2010-11-11
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

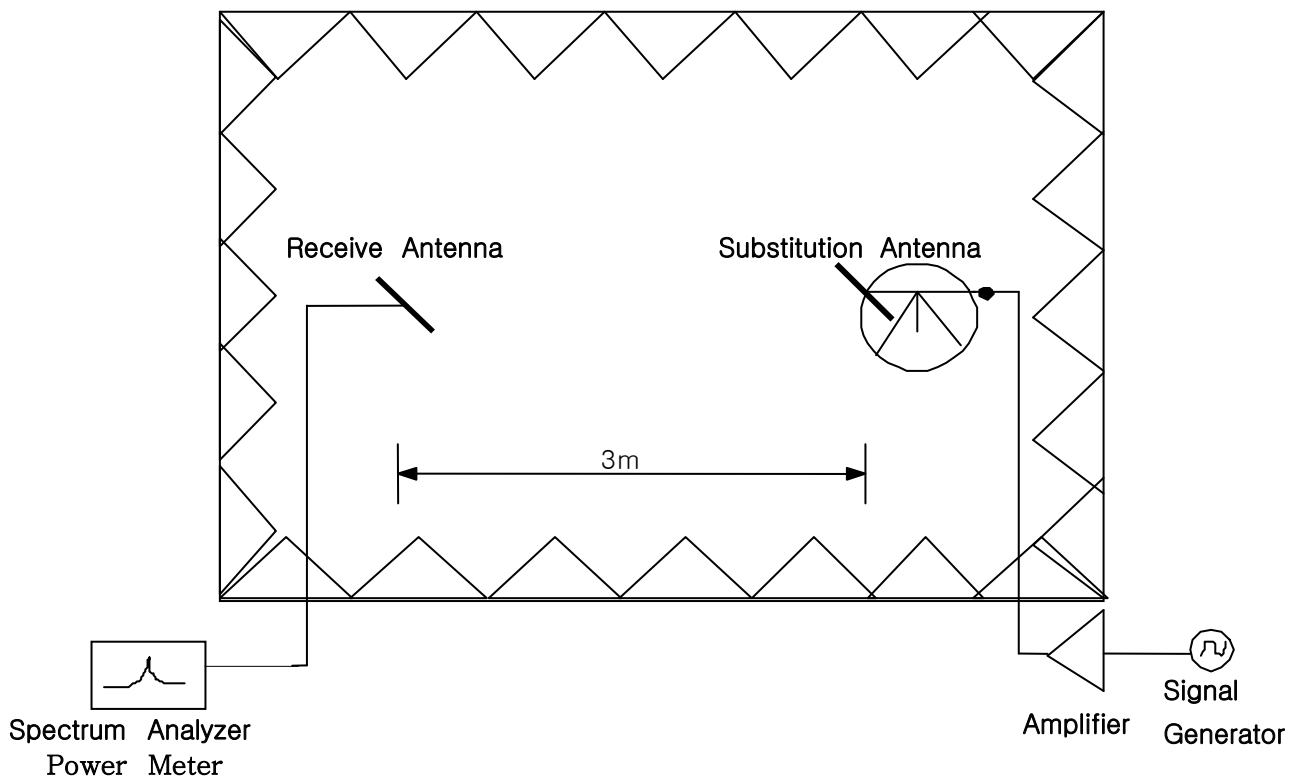


Figure 3. Diagram of ERP/EIRP test Set-up

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

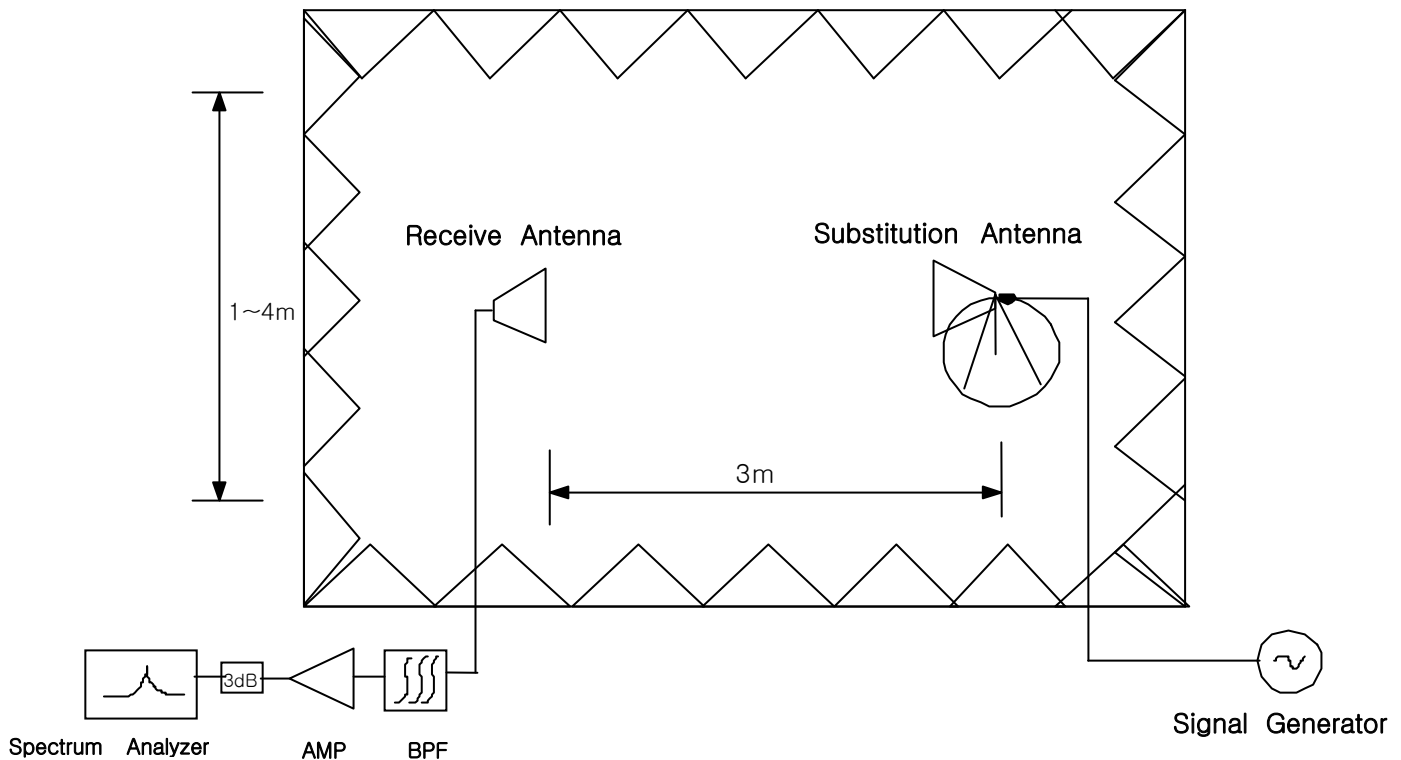


Figure 4. Diagram of Radiated Spurious & Harmonic test Set-up

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 $25.5\text{dBm} - (-24.8) = 50.3\text{dBc}$.

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 $43+10\log(P)$ dB. Limit equivalent to -13dBm, calculation shown below.

$$43 + 10\log (0.927 \text{ W}) = 42.67 \text{ dB}$$

$$29.67 \text{ dBm} - 42.67 \text{ dB} = -13 \text{ dBm}$$

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 : $0.01 * 273\text{KHz} = 2.73\text{KHz}$
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°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.
7. The artificial load is mounted external to the temperature chamber.

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

6. TEST DATA

6.1. 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	-10.32	9.60	-19.92
		V	-9.91	9.60	-19.51
1880.00	28.00	H	-10.95	9.60	-20.55
		V	-11.32	9.60	-20.92
1909.80	30.00	H	-9.49	9.60	-19.09
		V	-9.17	9.60	-18.77

■ Result

Frequency (MHz)	Tested level (dBm)	Polarization (H/V)	Azimuth (angle)	EIRP (dBm)	EIRP (W)	Battery
1850.20	-19.84	H	67/170	29.08	0.809	Standard
1880.00	-20.44	H	293/10	28.11	0.647	Standard
1909.80	-19.42	H	303/20	29.67	0.927	Standard

■ EDGE Result

Frequency (MHz)	Tested level (dBm)	Polarization (H/V)	Azimuth (angle)	EIRP (dBm)	EIRP (W)	Battery
1909.80	-23.03	H	303/20	26.06	0.404	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. GSM1900 Radiated Spurious & Harmonic measurement

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

Measured Output Power : 29.67 dBm = 0.927 W

Modulation Signal : GSM1900

Limit : $43 + 10\log_{10}(P) = 42.67$ dBc

■ Result

Channel	Harmonic	Frequency (MHz)	From EUT Tested level (dBm)	POL (H/V)	Result (dBc)
512	2	3700.40	-64.99	V	71.09
	3	5550.60	-66.23	V	66.10
	4	7400.80	-68.81	H	64.15
	5	9251.00	-68.58	H	59.46
	6	11101.20	-	-	-
	7	12951.40	-	-	-
661	2	3760.00	-63.89	V	69.51
	3	5640.00	-67.01	H	66.72
	4	7520.00	-67.79	V	63.51
	5	9400.00	-68.57	V	59.02
	6	11280.00	-	-	-
	7	13160.00	-	-	-
810	2	3819.60	-61.57	V	65.56
	3	5729.40	-66.52	H	65.71
	4	7639.20	-68.57	V	63.80
	5	9549.00	-68.74	H	58.81
	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

6.3. GSM1900 Radiated Spurious & Harmonic Conversion Table

Date : April 14, 2010

Test Engineer : KJ KWON

- 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 : V 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	-67.28	-64.99	73.01	71.09
	3	5550.60	-17.69	12.90	-8.20	-42.68	-42.80	-66.50	-66.23	66.49	66.10
	4	7400.80	-20.43	10.50	-3.10	-47.33	-46.96	-68.81	-68.96	64.15	64.67
	5	9251.00	-23.63	11.20	-0.60	-51.79	-50.45	-68.58	-68.98	59.46	61.20
	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	-64.33	-63.89	69.92	69.51
	3	5640.00	-17.78	12.90	-8.10	-42.73	-43.08	-67.01	-67.13	66.95	66.72
	4	7520.00	-20.67	10.60	-2.90	-47.12	-46.95	-68.16	-67.79	63.71	63.51
	5	9400.00	-23.23	11.60	-1.40	-51.75	-52.22	-68.80	-68.57	59.72	59.02
	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	-62.34	-61.57	66.99	65.56
	3	5729.40	-18.11	13.00	-7.90	-43.48	-43.49	-66.52	-67.56	65.71	66.74
	4	7639.20	-21.16	11.20	-3.00	-47.29	-47.44	-68.78	-68.57	64.16	63.80
	5	9549.00	-23.54	11.70	-1.20	-52.60	-52.08	-68.74	-69.48	58.81	60.07
	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	-	-	-	-

6.4. Frequency Stability

6.4.1. GSM1900 Frequency Stability Table

Operating Frequency : 1,880,000,000 Hz

Channel : 661

Reference Voltage : 3.7VDC

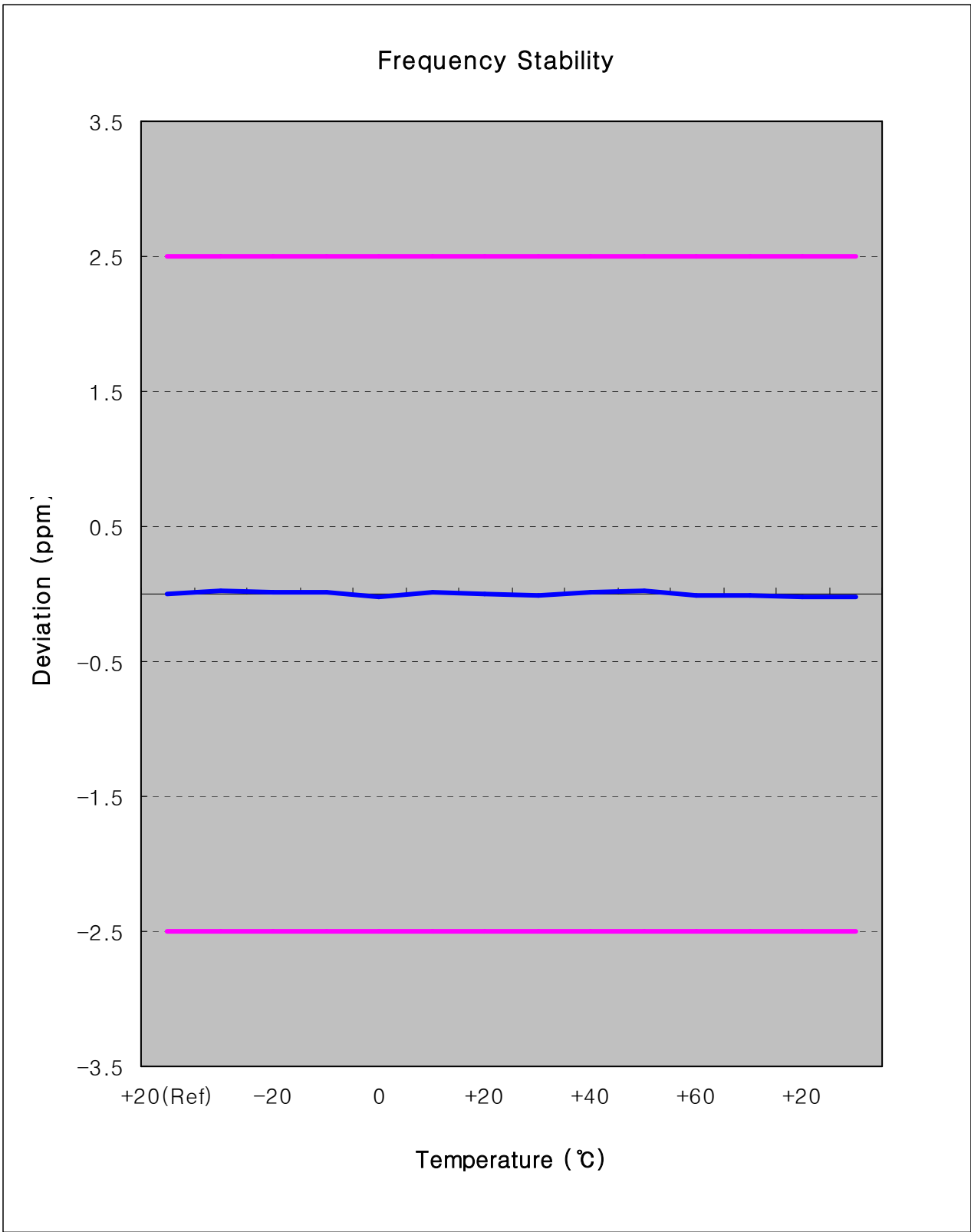
Deviation Limit : ± 0.00025 % or 2.5ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency Error (Hz)	Frequency (Hz)	Deviation (%)	ppm
100%	3.70	+20(Ref)	36.30	1,880,000,036	0.000002	0.019
100%		-30	36.70	1,880,000,037	0.000002	0.020
100%		-20	25.80	1,880,000,026	0.000001	0.014
100%		-10	-37.10	1,879,999,963	-0.000002	-0.020
100%		0	-26.60	1,879,999,973	-0.000001	-0.014
100%		+10	-12.20	1,879,999,988	-0.000001	-0.006
100%		+20	27.50	1,880,000,028	0.000001	0.015
100%		+30	5.10	1,880,000,005	0.000000	0.003
100%		+40	-1.90	1,879,999,998	0.000000	-0.001
100%		+50	-3.20	1,879,999,997	0.000000	-0.002
100%		+60	26.40	1,880,000,026	0.000001	0.014
85%	3.35	+20	-6.20	1,879,999,994	0.000000	-0.003
115%	4.26	+20	-8.20	1,879,999,992	0.000000	-0.004
Batt.Endpoint	3.35	+20	-0.90	1,879,999,999	0.000000	0.000

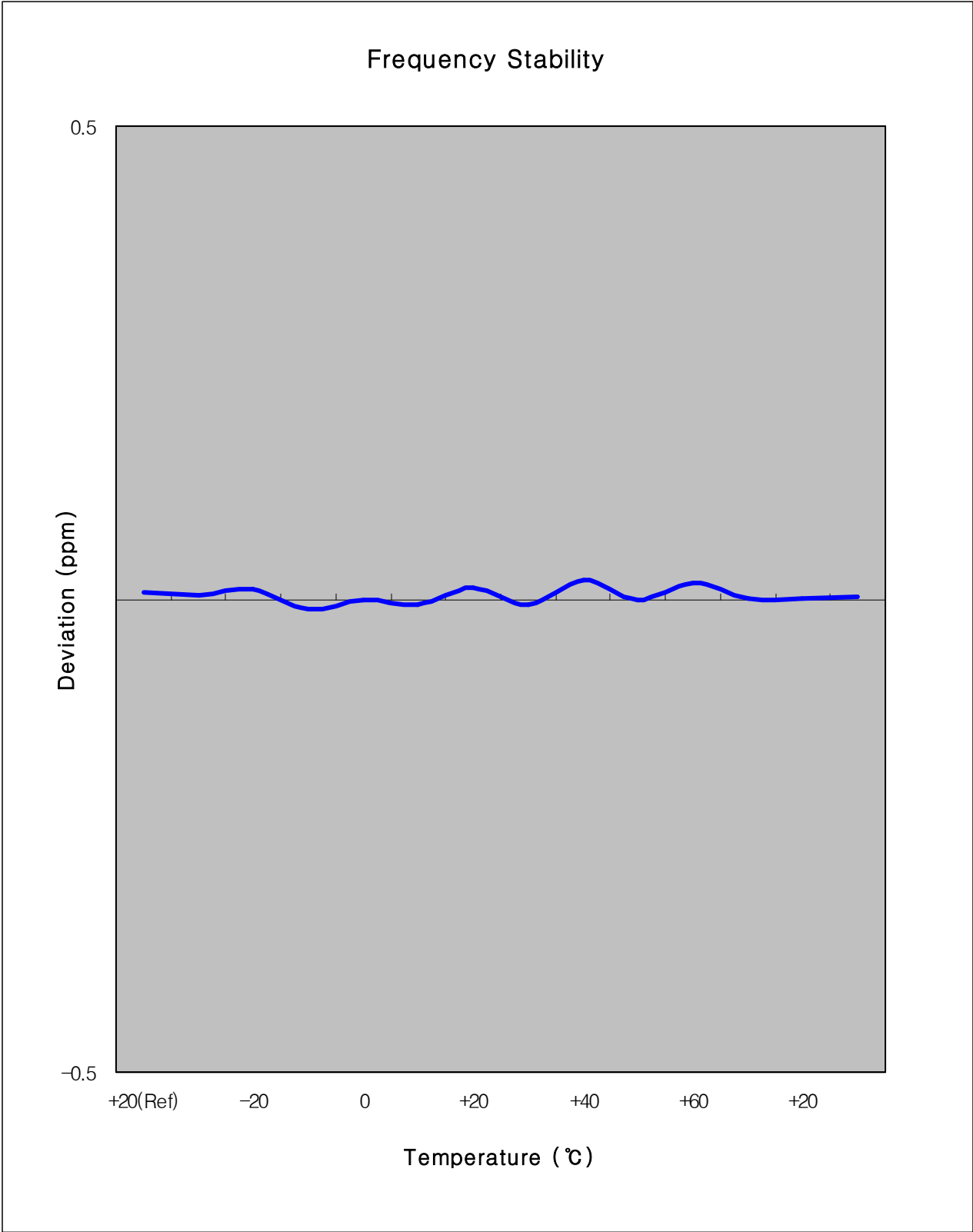
Note : The temperature is varied from -30 °C to +60 °C using an environmental chamber.

The EUT is tested down to the battery end point.

6.4.2. GSM1900 Frequency Stability Graph



Zoom IN





7. CONCLUSION

The data collected shows that the SAMSUNG 1900 GSM/EDGE/GPRS Phone with Bluetooth
FCC ID : A3LGTC3230 complies with all the requirements of Parts 2,24 of the FCC Rules.

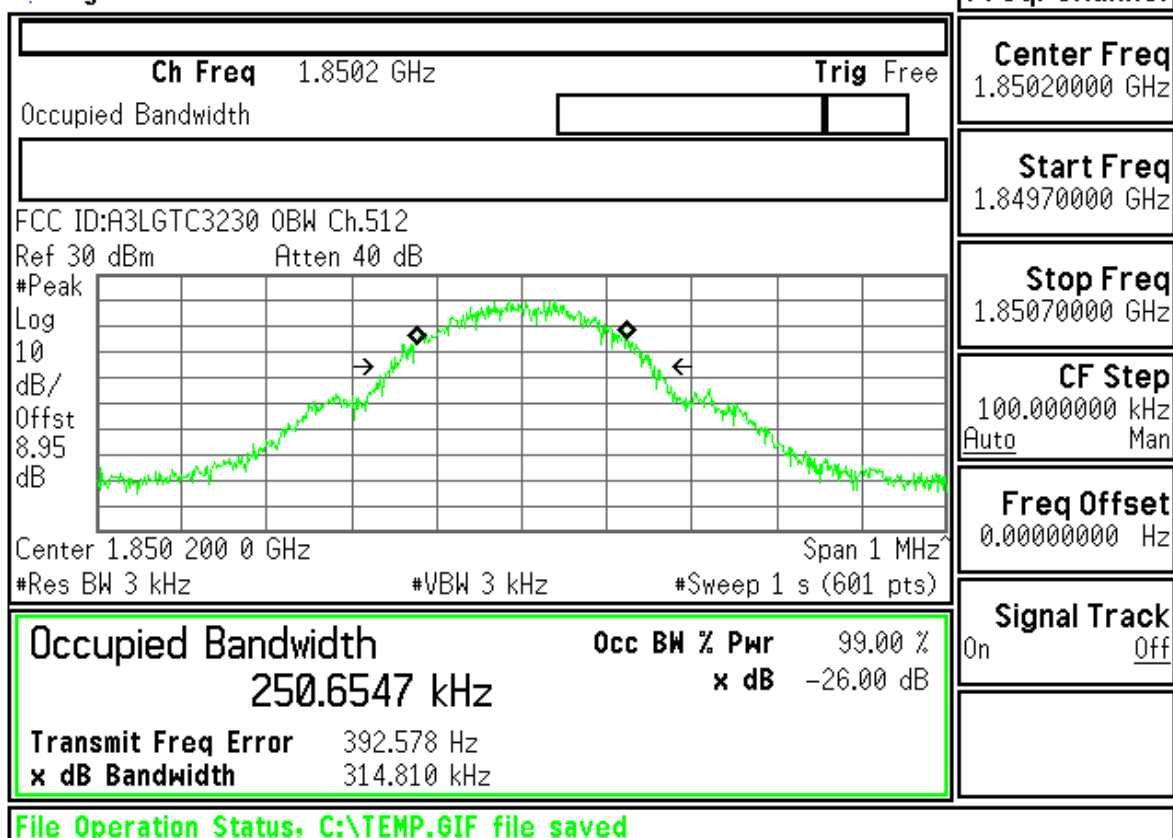
8. TEST PLOTS



Agilent

R T

Freq/Channel


Center Freq
 1.85020000 GHz

Start Freq
 1.84970000 GHz

Stop Freq
 1.85070000 GHz

CF Step
 100.000000 kHz
 Auto Man

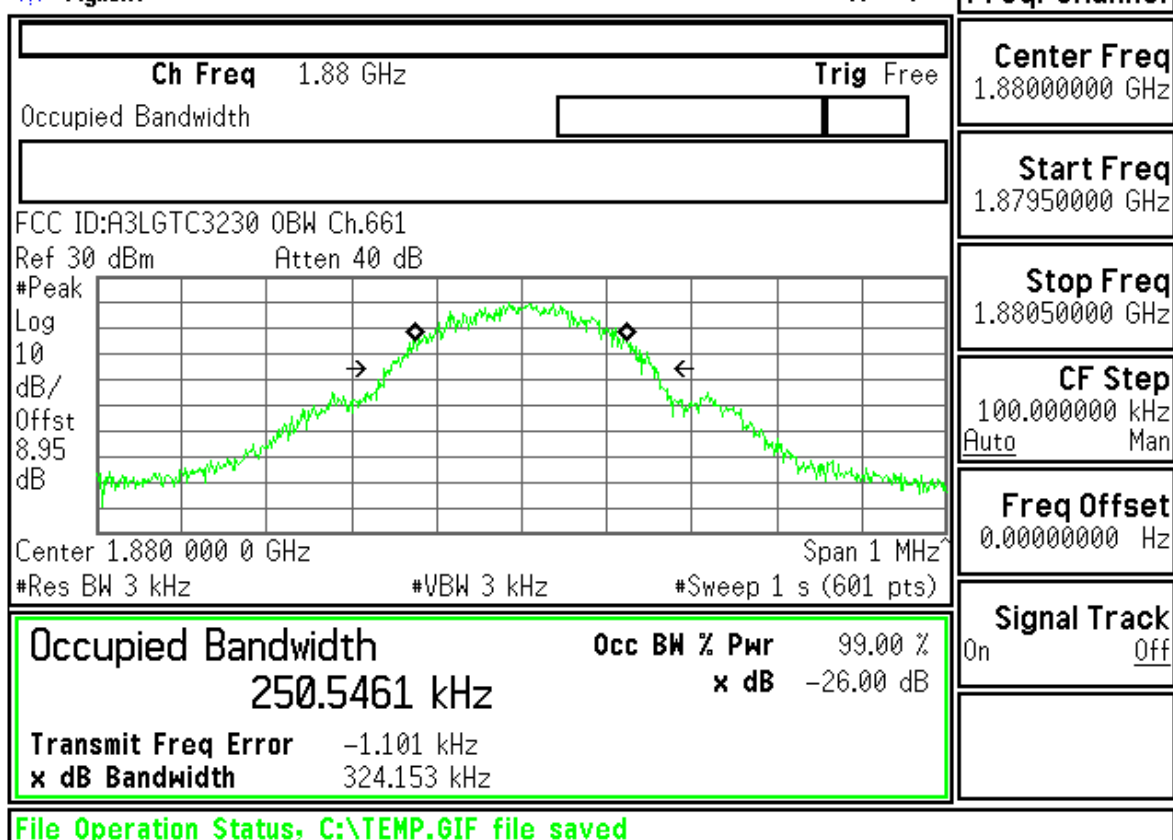
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Signal Track
 On Off


Agilent

R T

Freq/Channel


Center Freq
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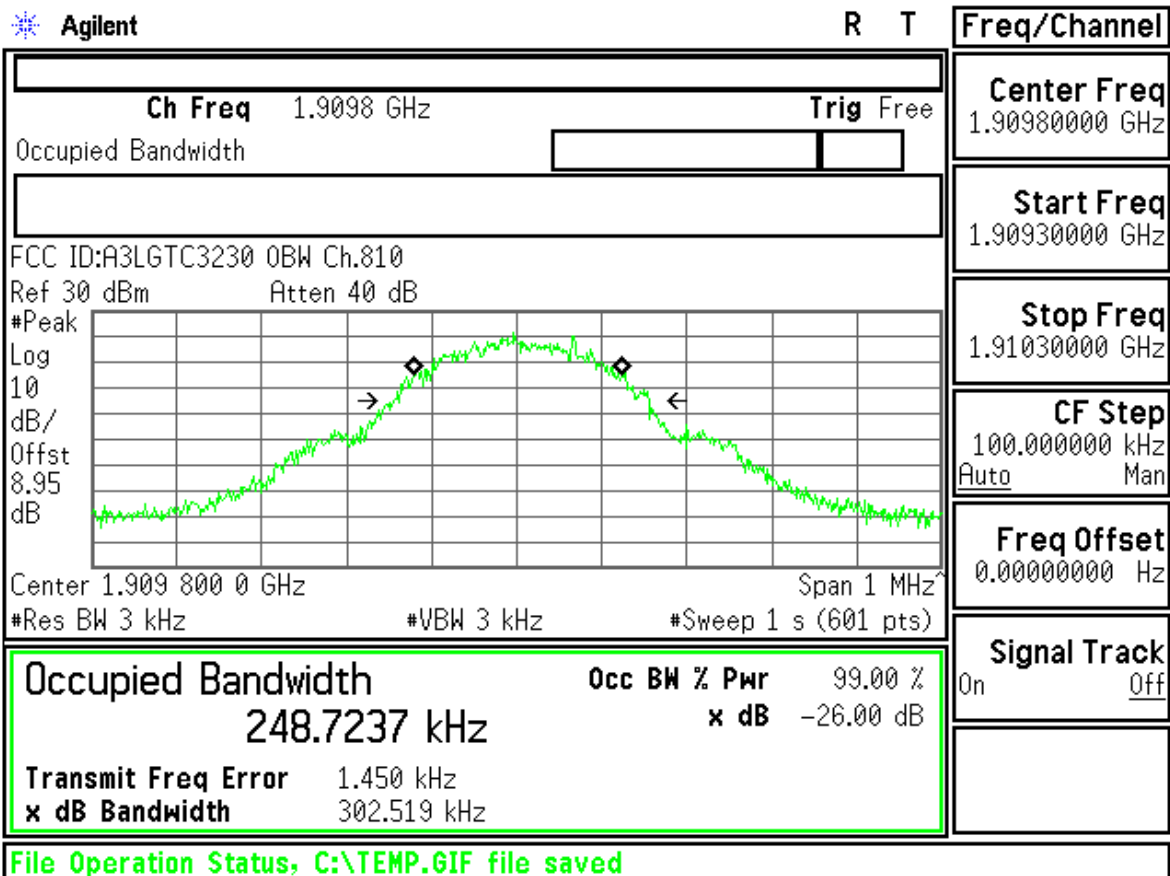
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Stop Freq
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CF Step
 100.000000 kHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

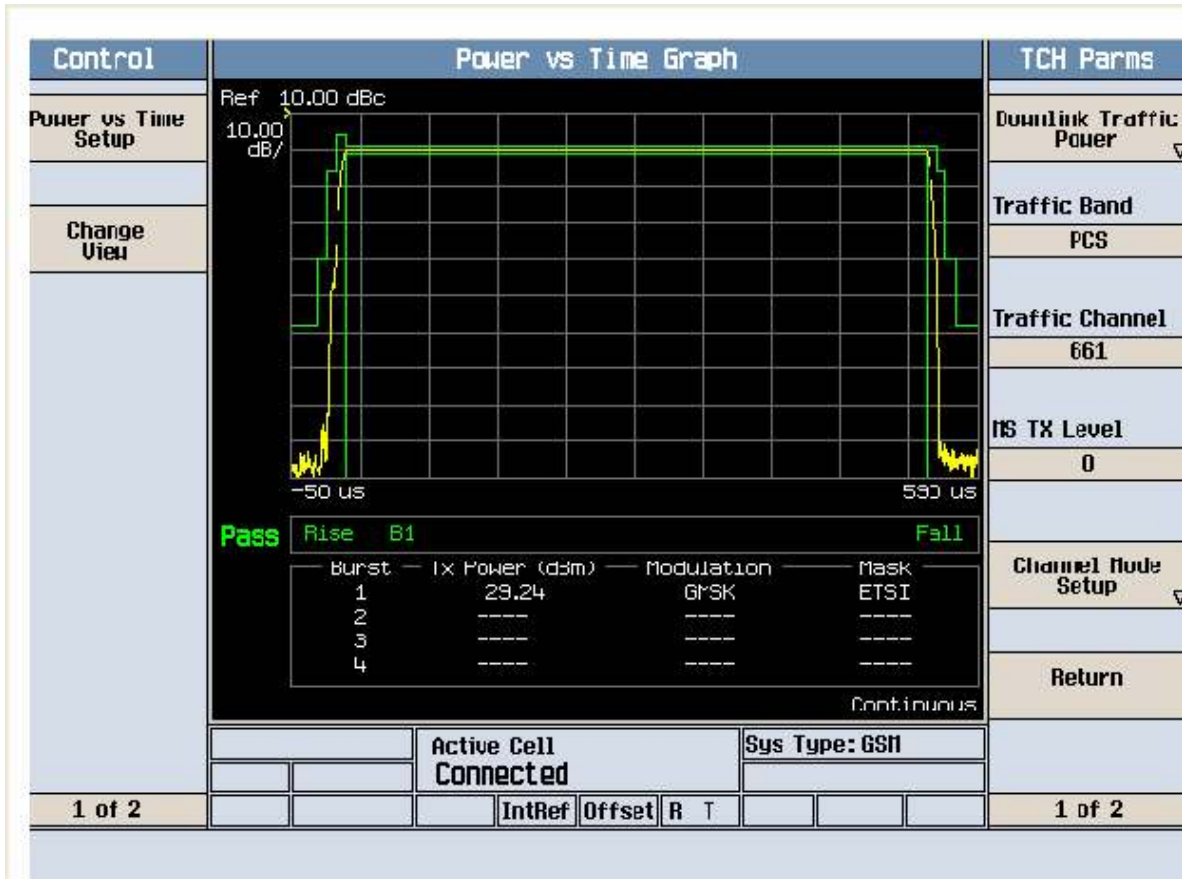
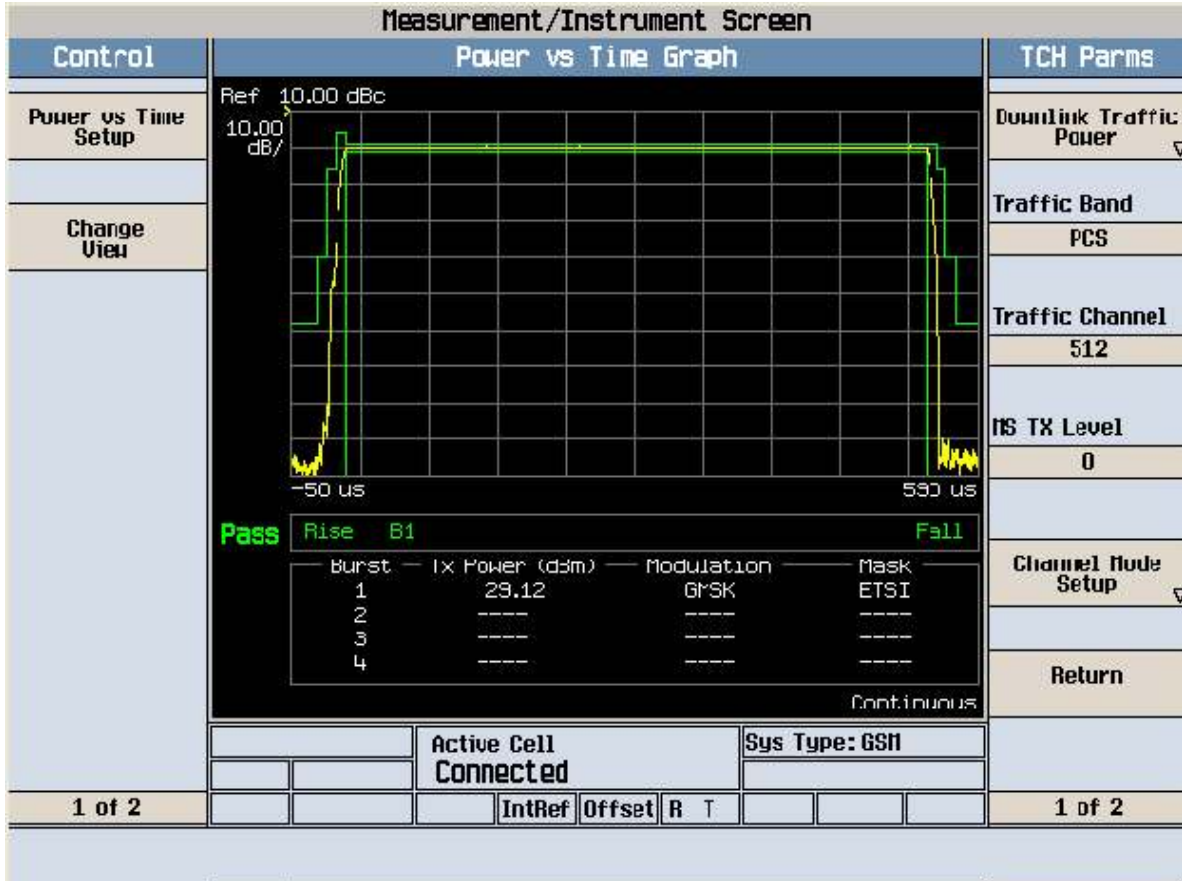


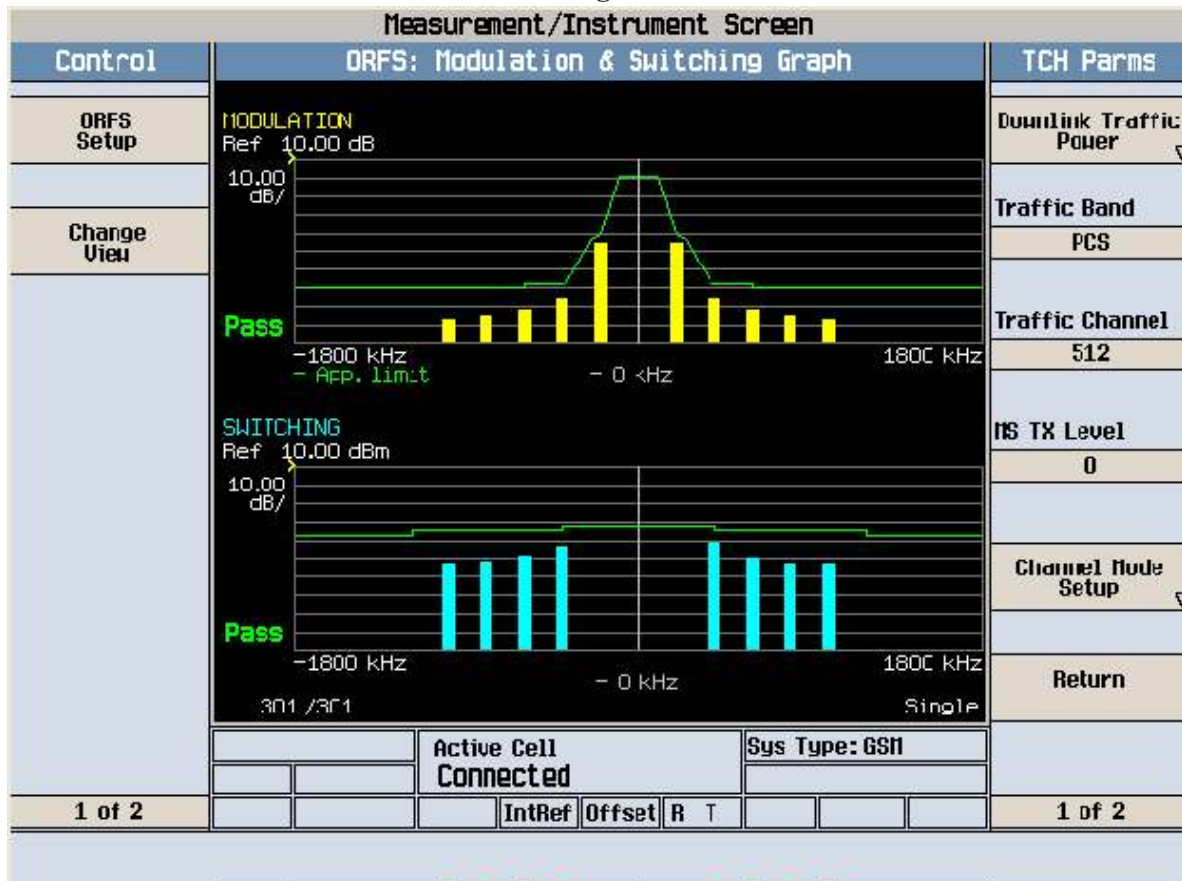
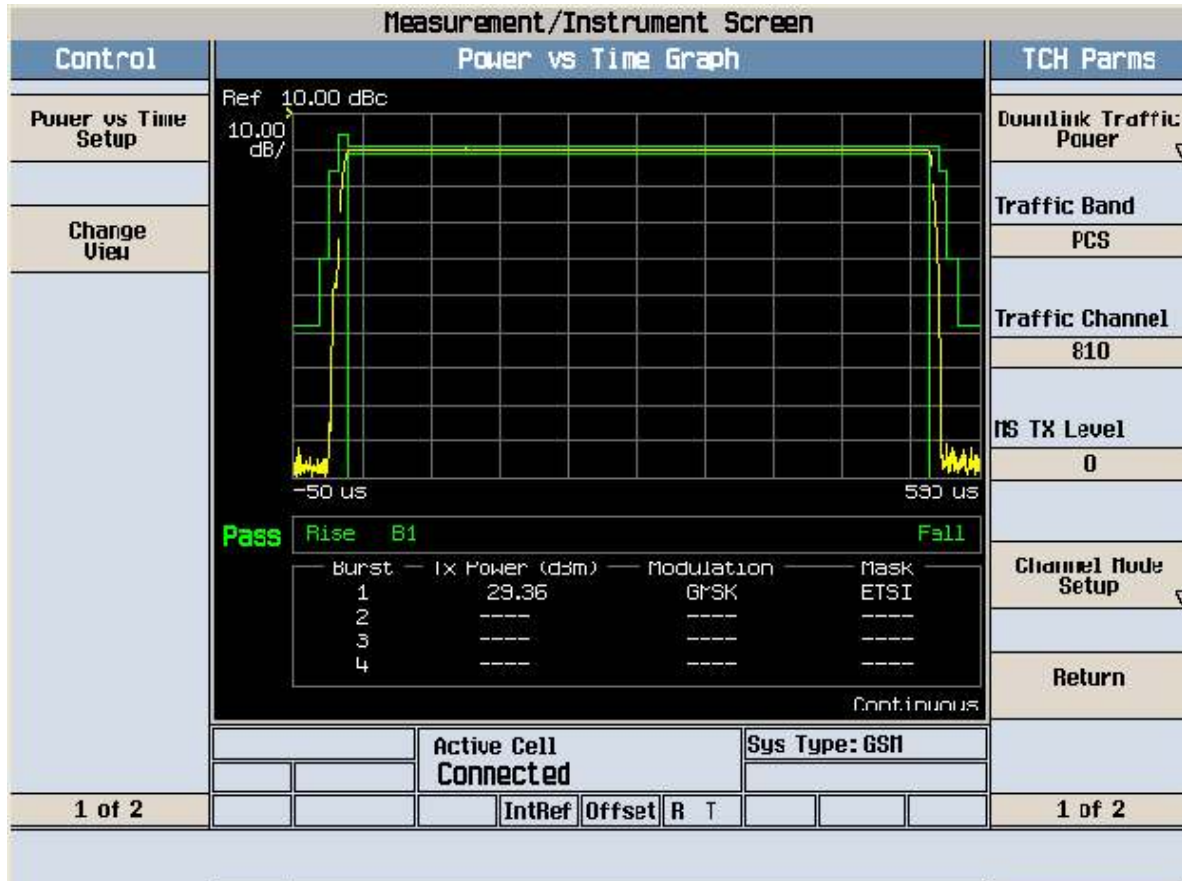
FCC ID : A3LGTC3230 Transmit Power 512CH

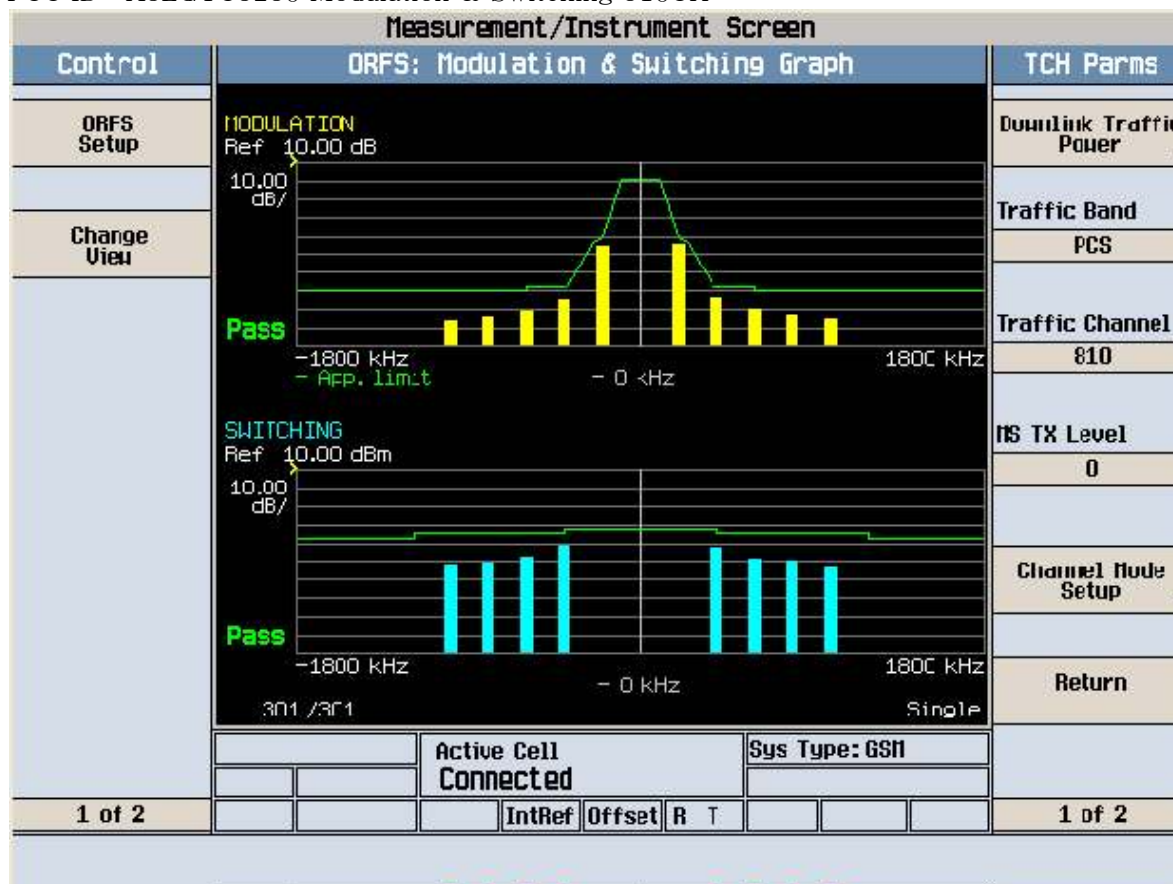
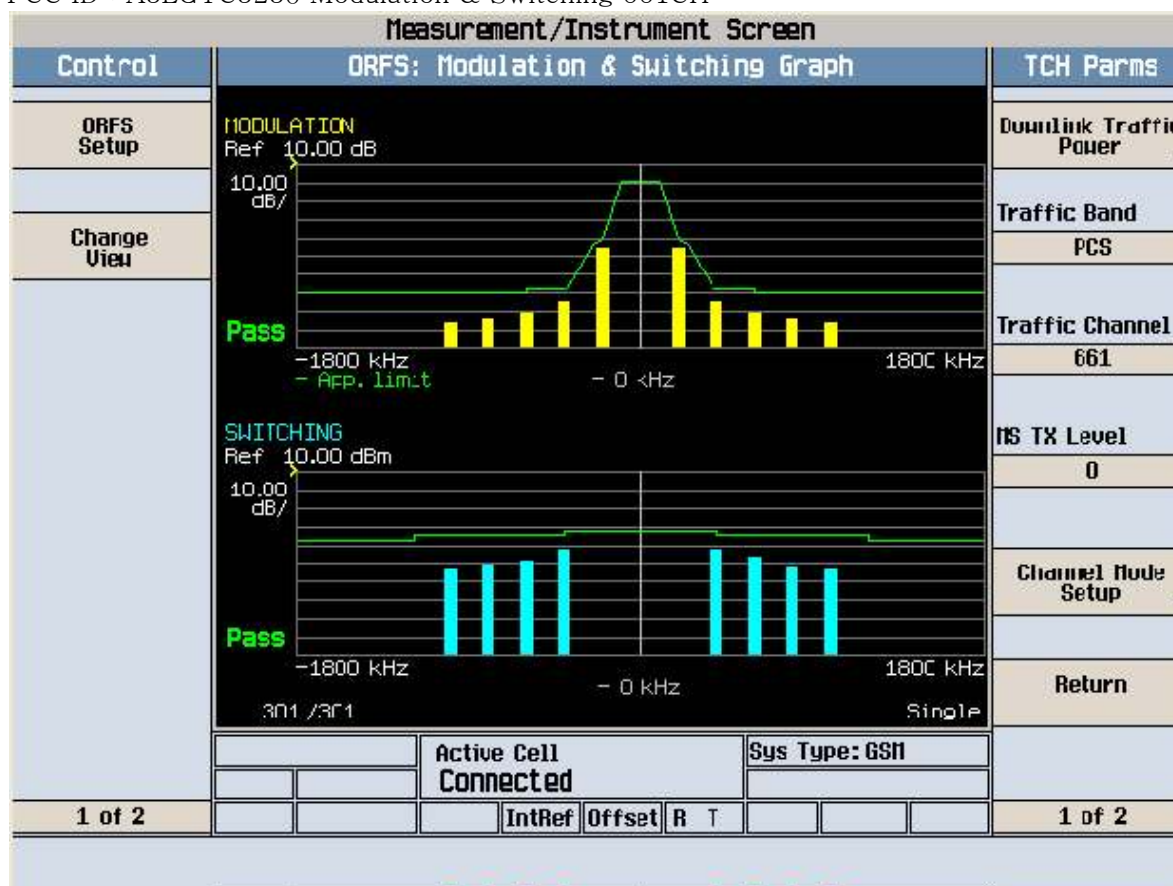
Measurement/Instrument Screen																																
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1 of 2		IntRef Offset R T				1 of 2																										







Agilent

R T

Freq/Channel

FCC ID:A3LGTC3230 Cond Spur Ch.512

Ref 30 dBm

Atten 40 dB

#Peak

Log

10

dB/

Offst

8.95

dB

DI

-13.0

dBm

LgAv

M1 S2

S3 FC

AL

£(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 2000-2007 Agilent Technologies

Agilent

R T

Freq/Channel

FCC ID:A3LGTC3230 Cond Spur Ch.512

Mkr1 1.653 GHz

Ref 30 dBm

Atten 40 dB

-31.80 dBm

#Peak

Log

10

dB/

Offst

8.95

dB

DI

-13.0

dBm

LgAv

V1 S2

S3 FC

AL

£(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

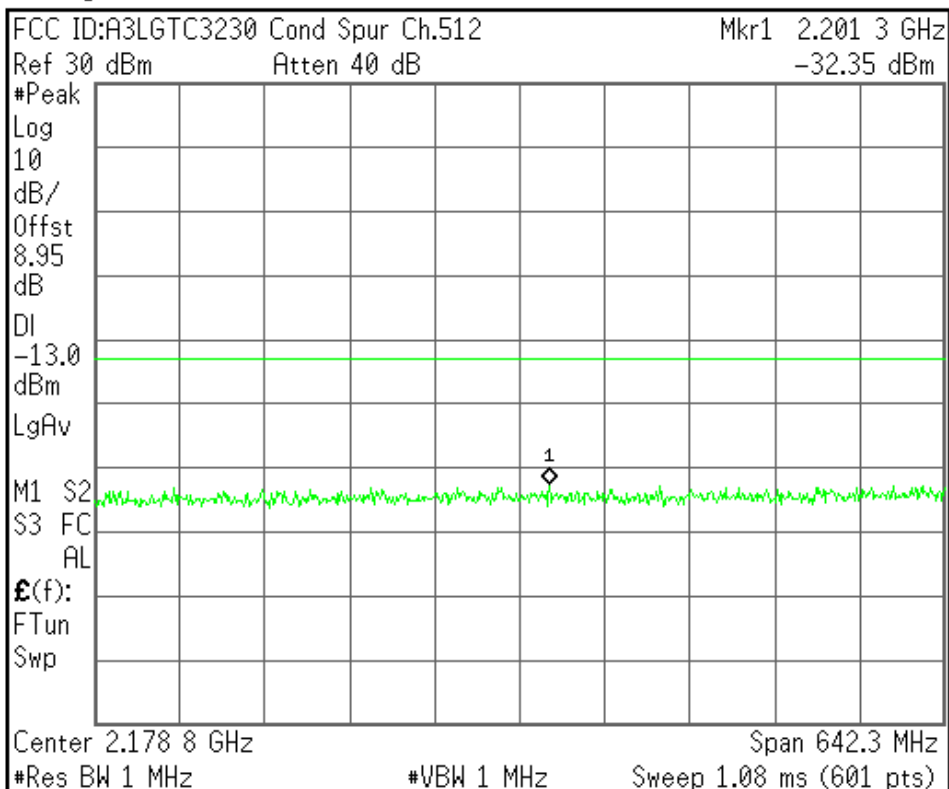
Sweep 3.08 ms (601 pts)

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

Agilent

R T

Freq/Channel



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

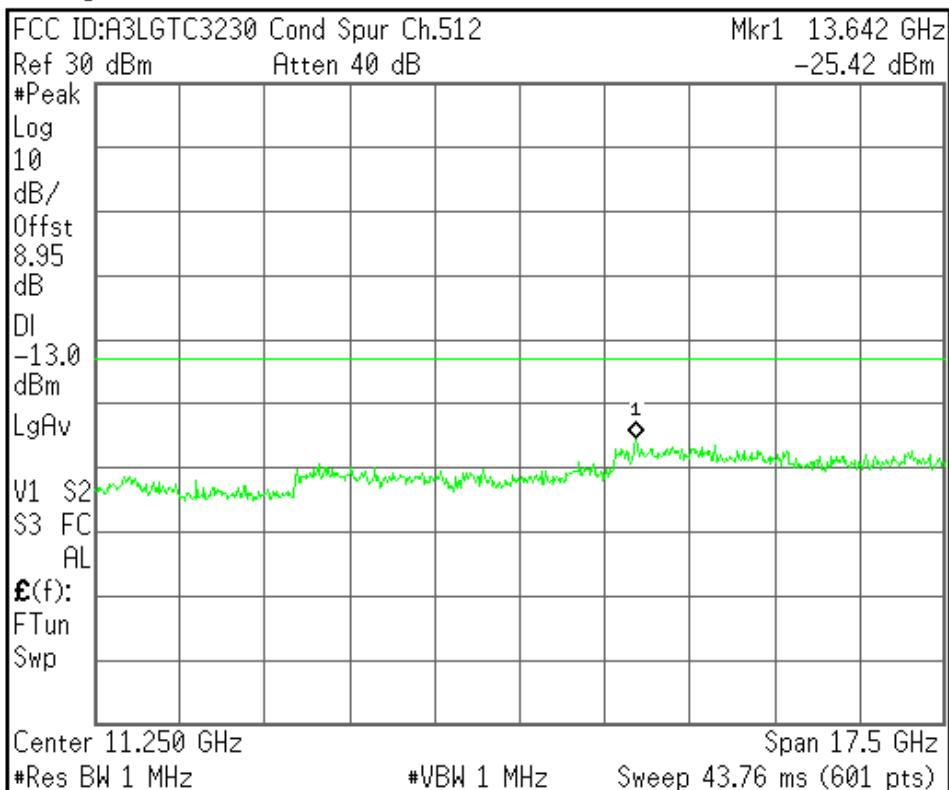
Signal Track
On Off

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

Agilent

R T

Freq/Channel



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

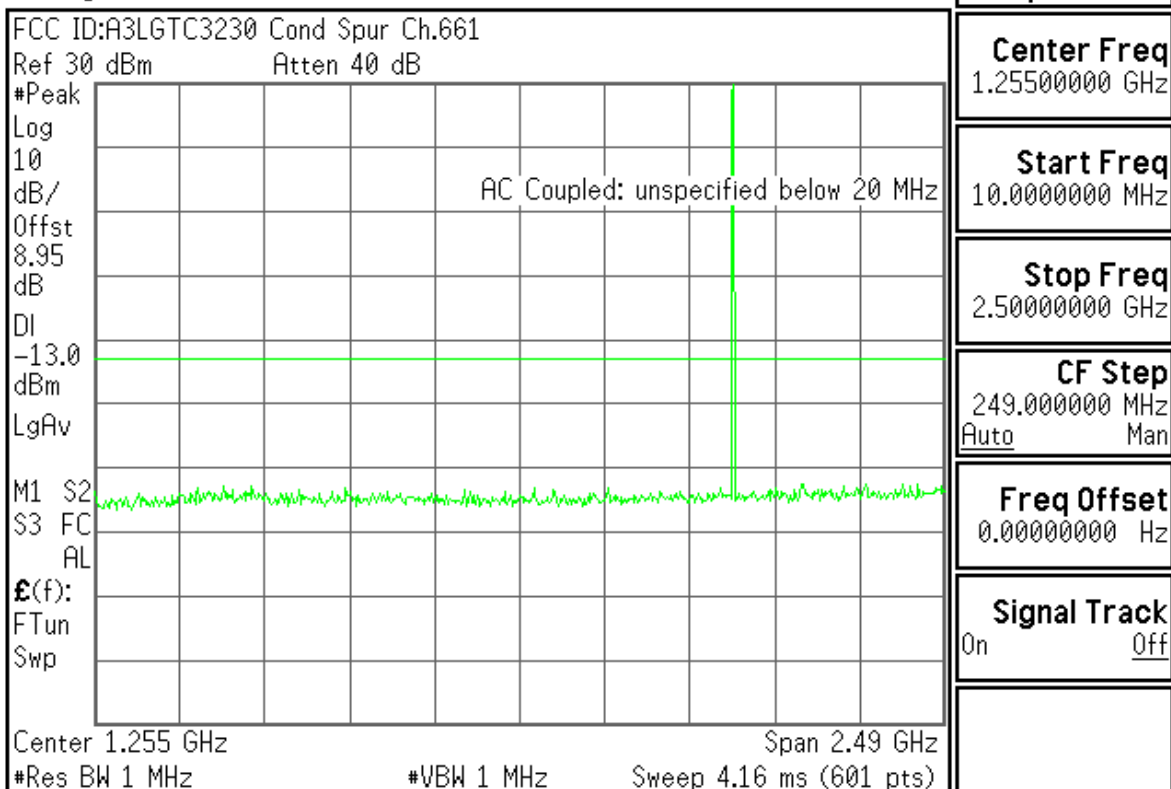
Signal Track
On Off

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

Agilent

R T

Freq/Channel

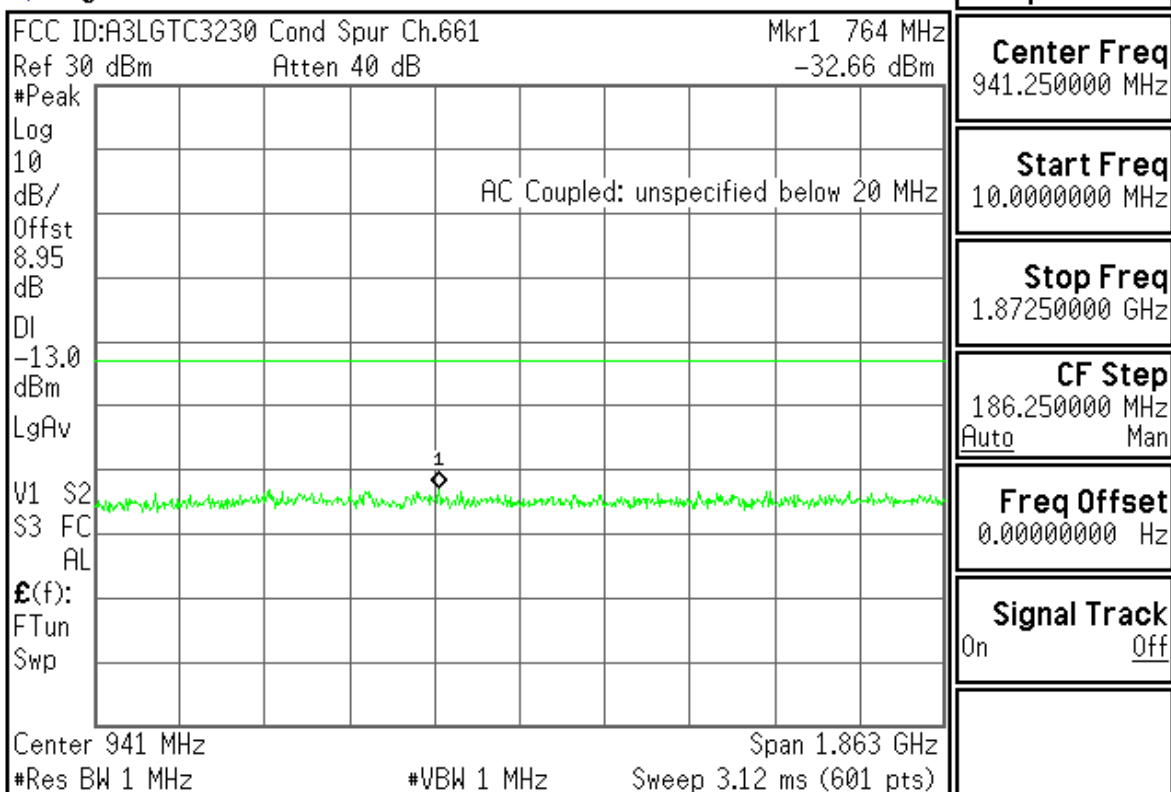


File Operation Status, C:\TEMP.GIF file saved

Agilent

R T

Freq/Channel

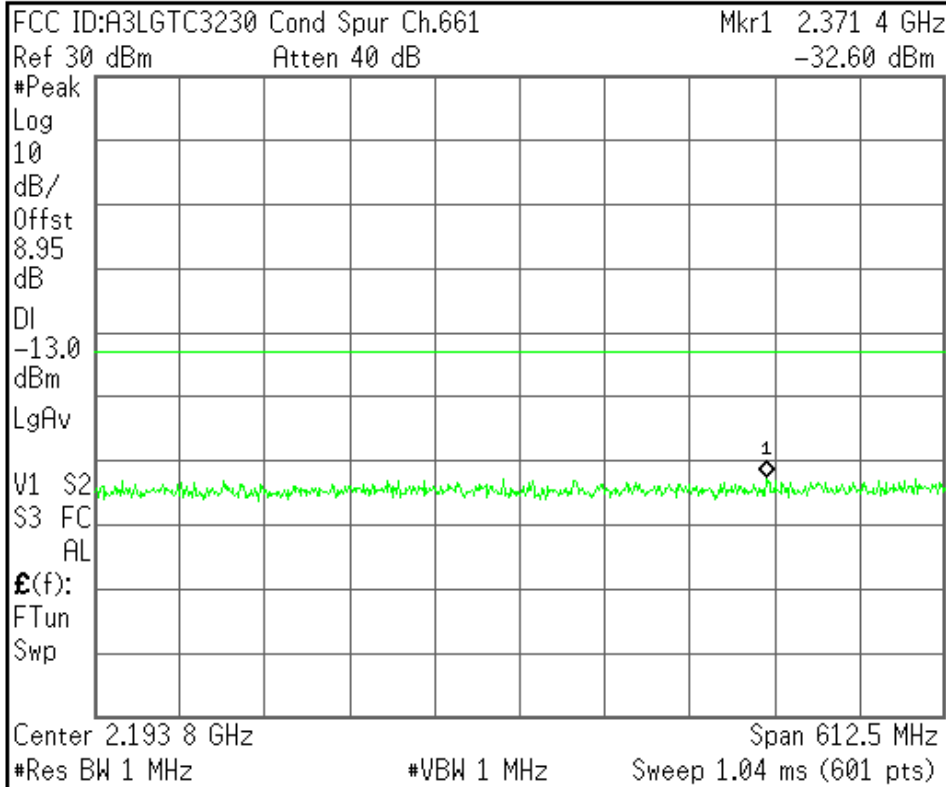


File Operation Status, C:\TEMP.GIF file saved

Agilent

R T

Freq/Channel



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

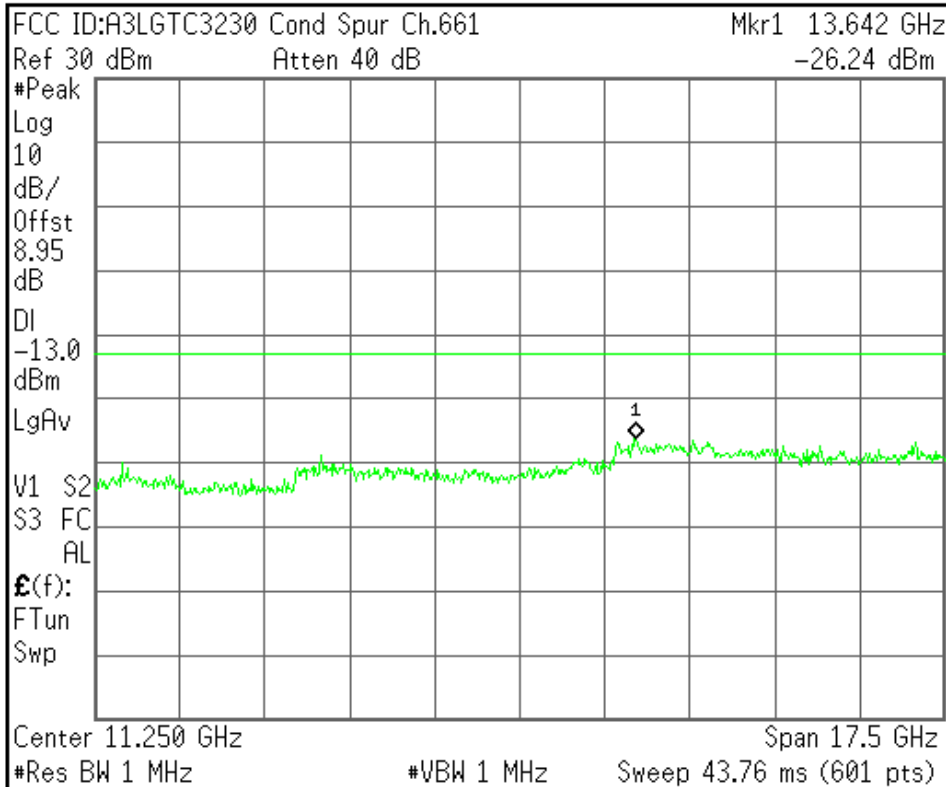
Signal Track
On Off

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

Agilent

R T

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:A3L6TC3230 Cond Spur Ch.810

Ref 30 dBm

Atten 40 dB

#Peak

Log

10

dB/

Offst

8.95

dB

DI

-13.0

dBm

LgAv

M1 S2

S3 FC

AL

£(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 T

Freq/Channel

FCC ID:A3L6TC3230 Cond Spur Ch.810

Mkr1 1.577 GHz

Ref 30 dBm

Atten 40 dB

-32.30 dBm

#Peak

Log

10

dB/

Offst

8.95

dB

DI

-13.0

dBm

LgAv

V1 S2

S3 FC

AL

£(f):

FTun

Swp

AC Coupled: unspecified below 20 MHz

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

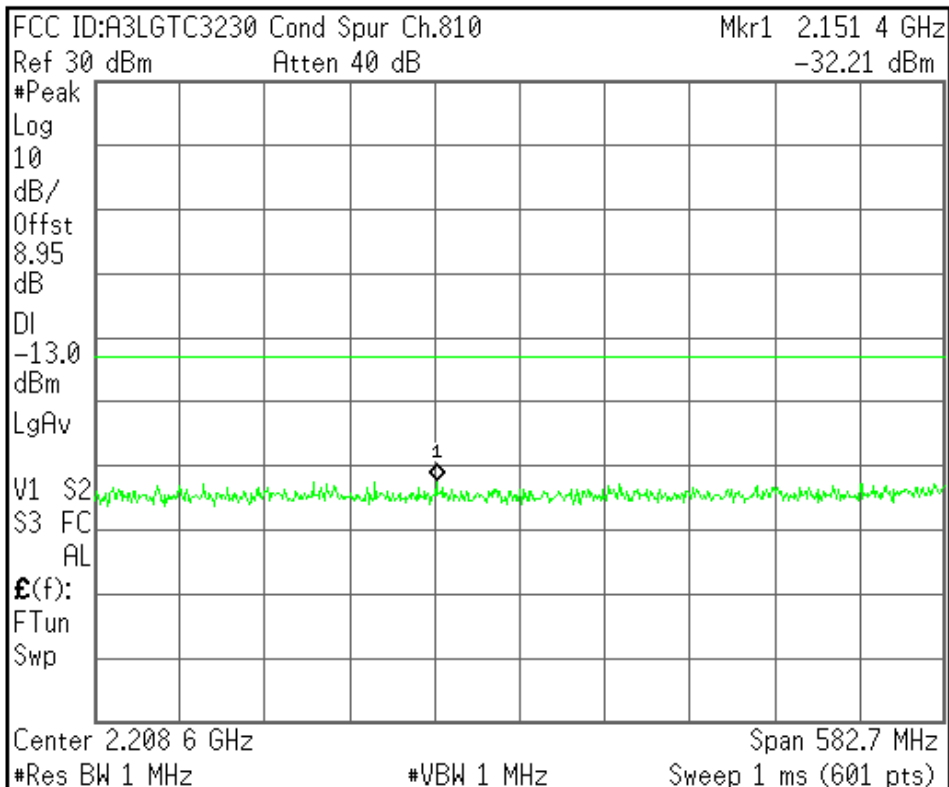
Sweep 3.16 ms (601 pts)

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

Agilent

R T

Freq/Channel



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

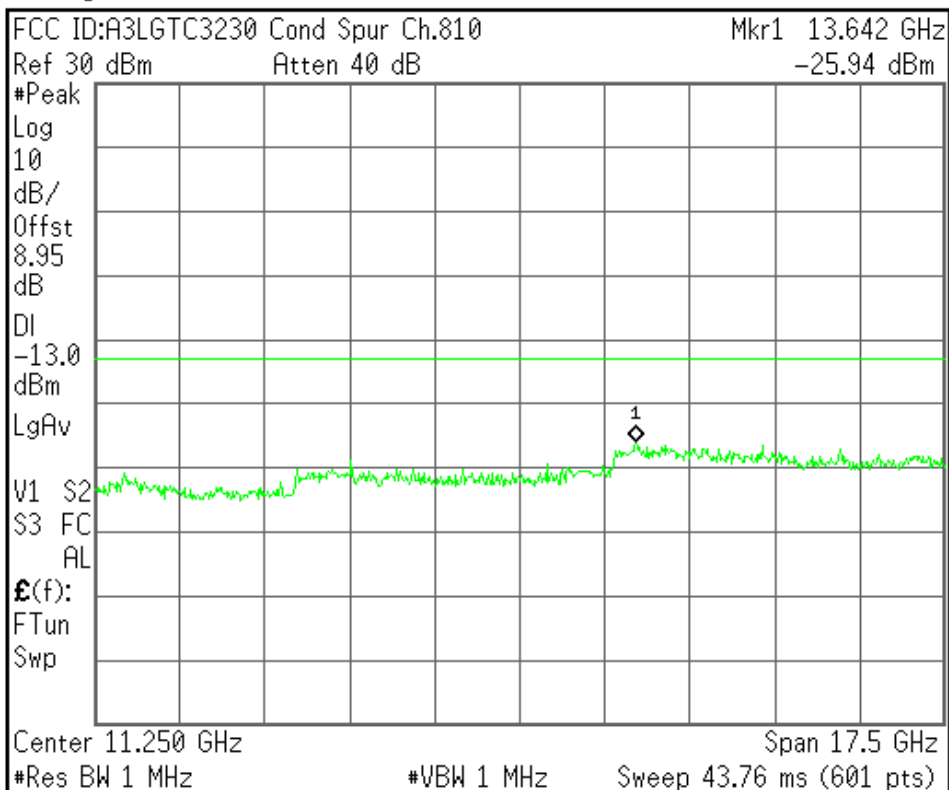
Signal Track
On Off

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

Agilent

R T

Freq/Channel



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:A3LGTC3230 Band Edge Ch.512

Ref 30 dBm

Atten 40 dB

#Avg

Log

10

dB/

Offst

8.95

dB

DI

-13.0

dBm

PAvg

M1 S2

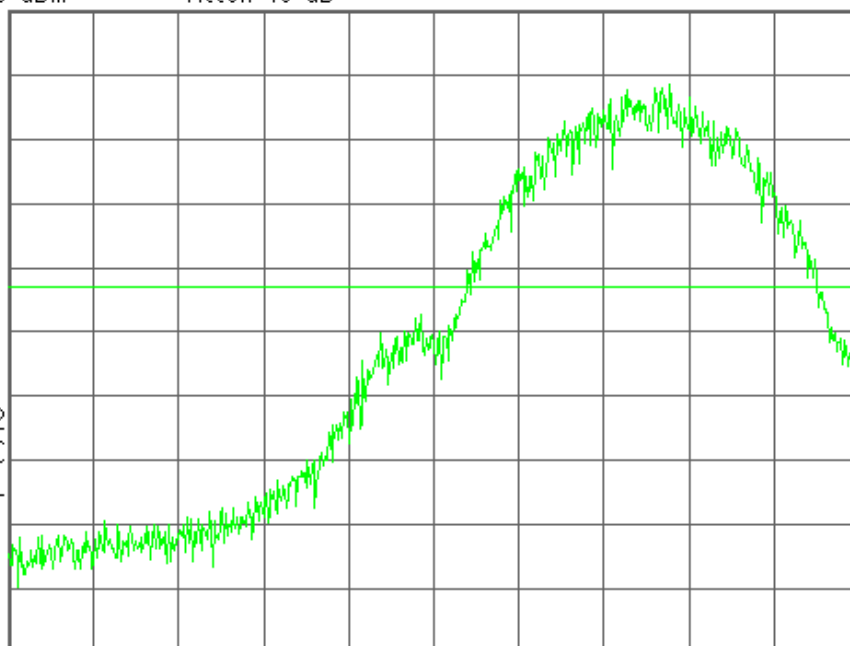
S3 FC

AL

£(f):

f>50k

Swp



Center 1.850 000 00 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:A3LGTC3230 Band Edge Ch.512

Mkr1 1.849 997 33 GHz

Ref 30 dBm

Atten 40 dB

-18.24 dBm

#Avg

Log

10

dB/

Offst

8.95

dB

DI

-13.0

dBm

PAvg

M1 S2

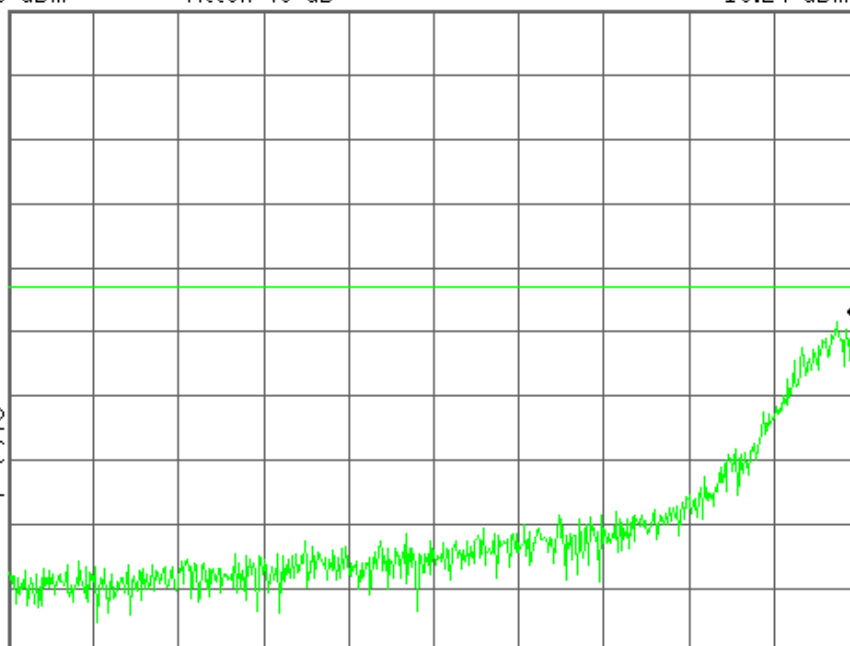
S3 FC

AL

£(f):

f>50k

Swp



Center 1.849 595 00 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 T

Freq/Channel

FCC ID:A3LGTC3230 Band Edge Ch.810

Ref 30 dBm

Atten 40 dB

#Avg

Log

10

dB/

Offst

8.95

dB

DI

-13.0

dBm

PAvg

M1 S2

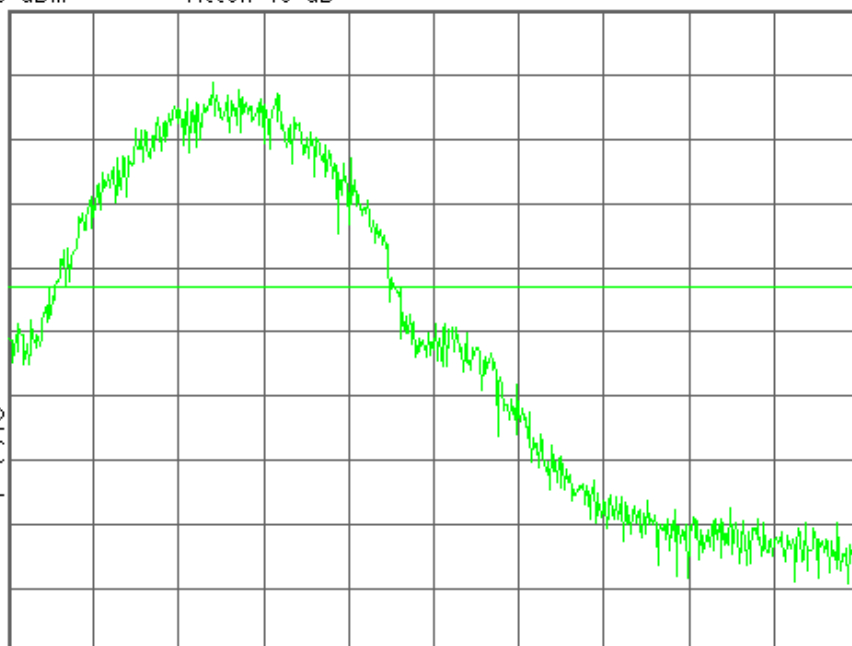
S3 FC

AL

£(f):

f>50k

Swp



Center 1.910 000 00 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
81.00000000 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:A3LGTC3230 Band Edge Ch.810

Mkr1 1.910 025 96 GHz

Ref 30 dBm

Atten 40 dB

-18.74 dBm

#Avg

Log

10

dB/

Offst

8.95

dB

DI

-13.0

dBm

PAvg

M1 S2

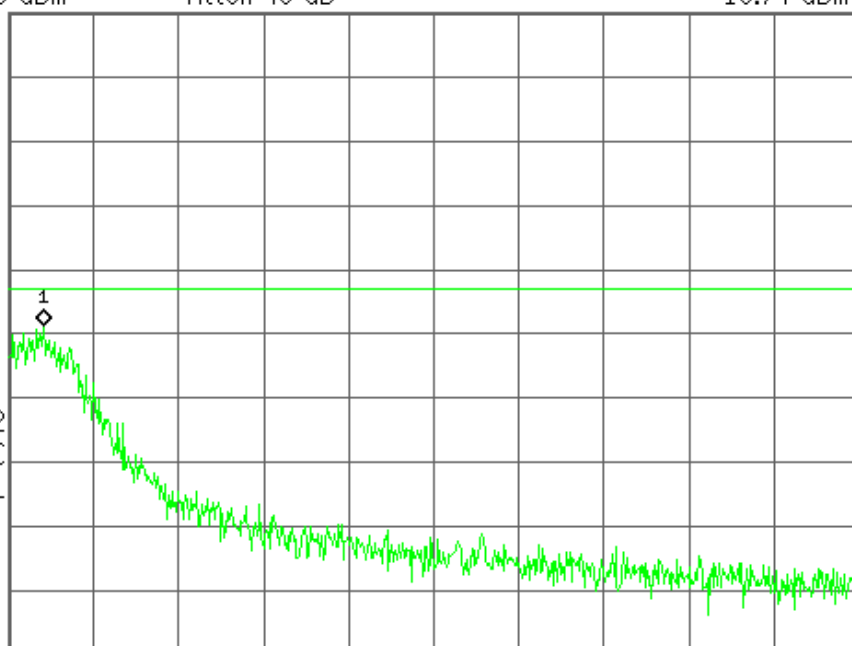
S3 FC

AL

£(f):

f>50k

Swp



Center 1.910 405 00 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
81.00000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

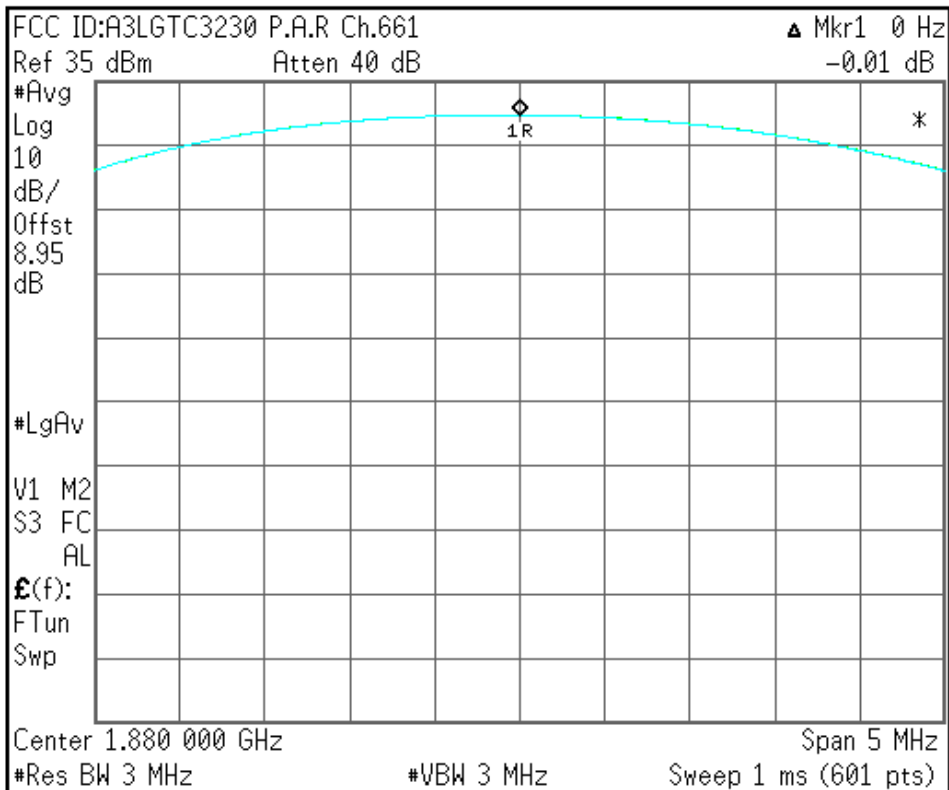
Signal Track
On Off

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

Agilent

R T

Freq/Channel



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

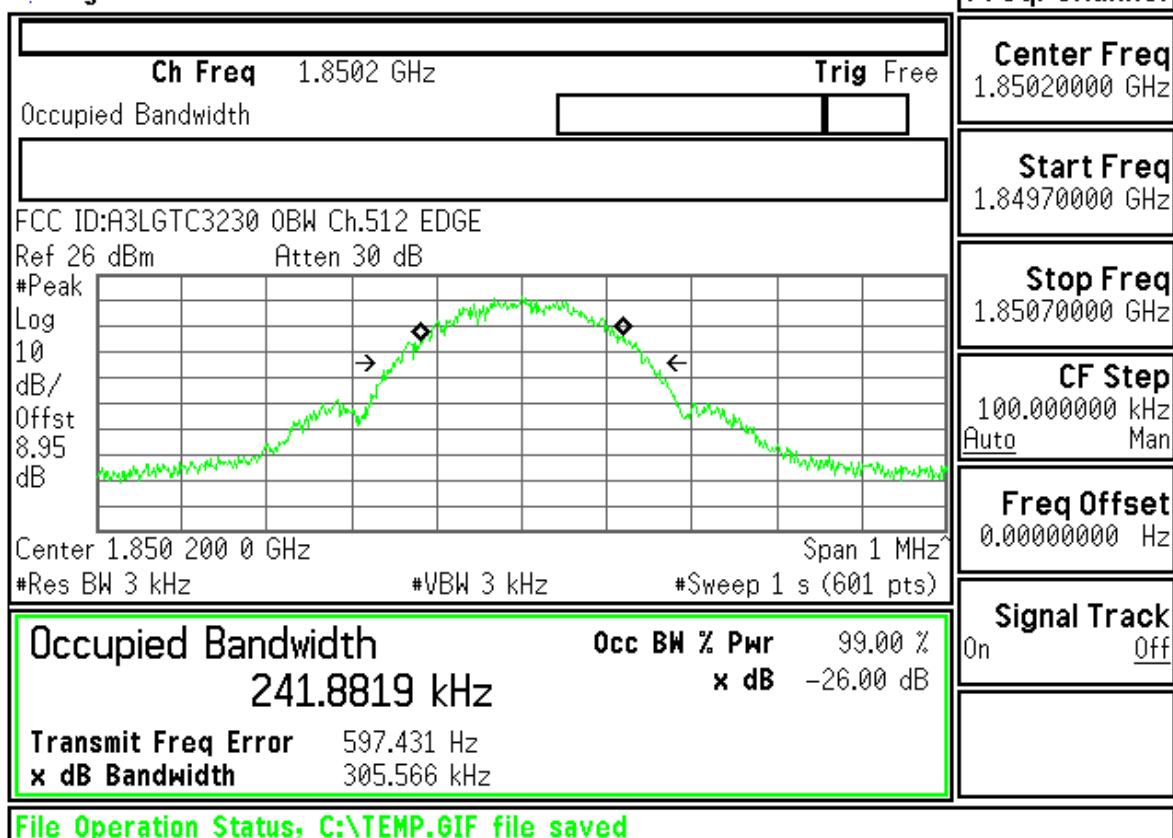
File Operation Status, C:\TEMP.GIF file saved



Agilent

R T

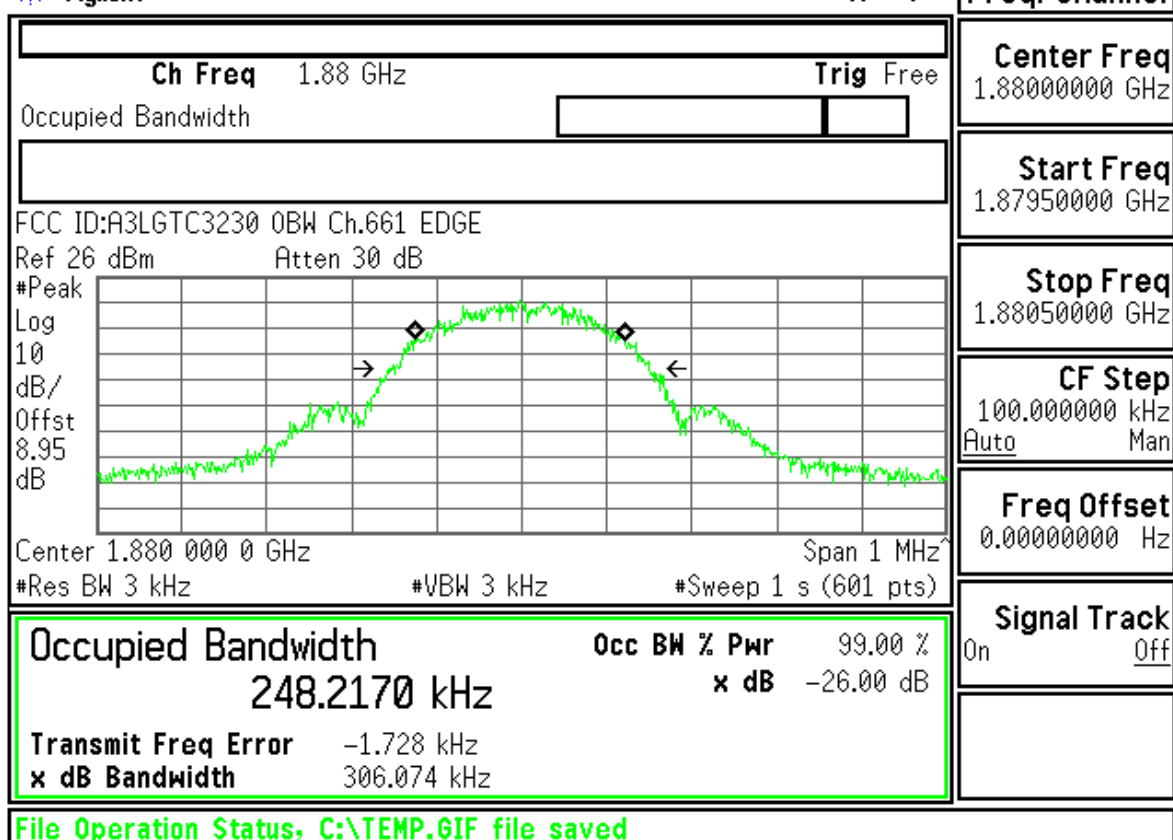
Freq/Channel

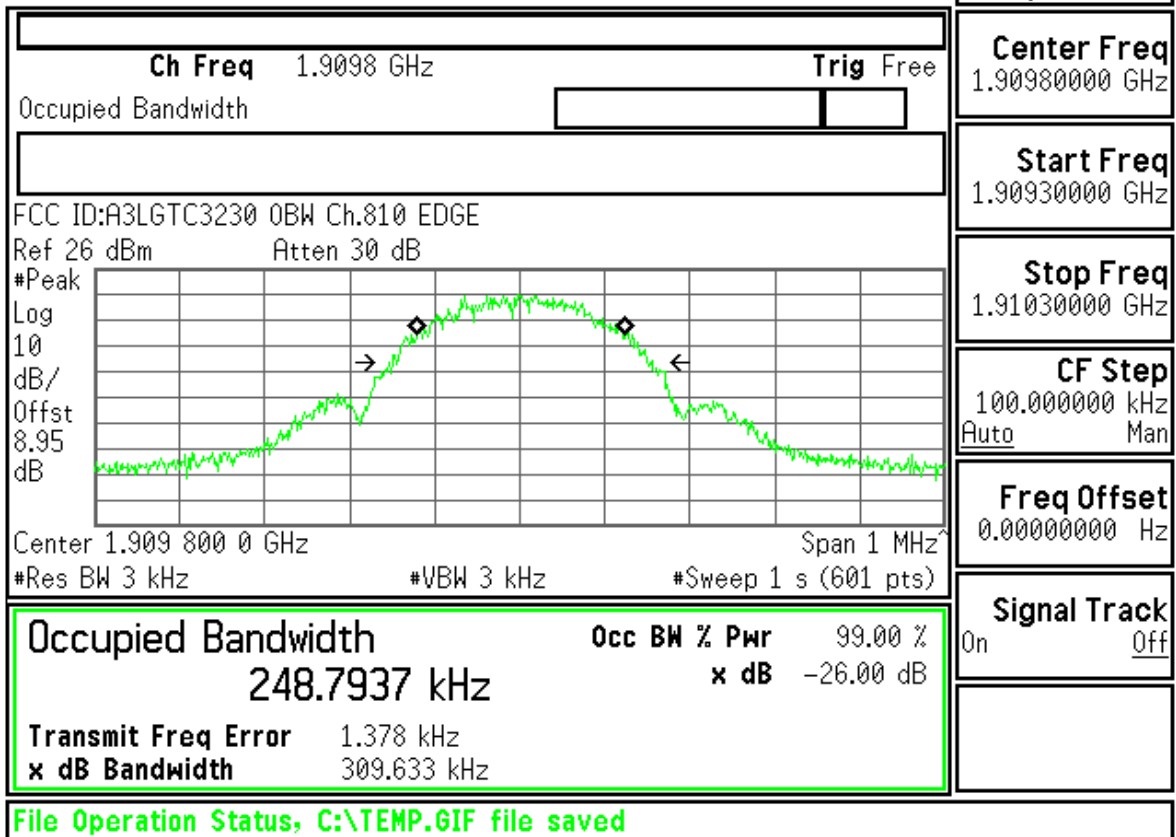
Center Freq
1.85020000 GHzStart Freq
1.84970000 GHzStop Freq
1.85070000 GHzCF Step
100.000000 kHz
Auto ManFreq Offset
0.00000000 HzSignal Track
On Off

Agilent

R T

Freq/Channel

Center Freq
1.88000000 GHzStart Freq
1.87950000 GHzStop Freq
1.88050000 GHzCF Step
100.000000 kHz
Auto ManFreq Offset
0.00000000 HzSignal Track
On Off



FCC ID : A3LGTC3230 Transmit Power 512CH EDGE

Measurement/Instrument Screen												
Control		EGPRS Transmit Power								PDTCB Params		
EGPRS Transmit Power Setup ▾		EPK Burst Power				EPK Est Carrier Power				Downlink Traffic Power ▾		
		Minimum		Maximum		Minimum		Maximum		Traffic Band		
		24.70 dBm		26.13 dBm		25.27 dBm		25.49 dBm		PCS		
		Average		Std Dev		Average		Std Dev		Traffic Channel		
		25.35 dBm		0.24 dBm		25.41 dBm		0.05 dBm		512		
		200 /200								Single		
										HS TX Level ▾		
										Modulation Coding Scheme ▾		
										Return		
1 of 2				Active Cell Transferring				Sys Type: EGPRS			1 of 2	
				IntRef Offset R T								

Measurement/Instrument Screen													
Control		EGPRS Transmit Power								PDCH Params			
EGPRS Transmit Power Setup ▾		EP SK Burst Power				EP SK Est Carrier Power				Downlink Traffic Power			
		Minimum		Maximum		Minimum		Maximum		Traffic Band			
		24.52 dBm		25.93 dBm		25.18 dBm		25.41 dBm		PCS			
		Average		Std Dev		Average		Std Dev		Traffic Channel			
		25.21 dBm		0.24 dBm		25.26 dBm		0.05 dBm		661			
		200 /200								Single			
										HS TX Level			
								Modulation Coding Scheme					
								Return					
		Active Cell Transferring				Sys Type: EGPRS							
1 of 2						IntRef		Offset		R T		1 of 2	

Measurement/Instrument Screen												
Control		EGPRS Transmit Power							PDCH Params			
EGPRS Transmit Power Setup ▾		EP SK Burst Power				EP SK Est Carrier Power			Downlink Traffic Power			
		Minimum		Maximum		Minimum		Maximum		Traffic Band		
		24.49 dBm		25.75 dBm		25.13 dBm		25.32 dBm		PCS		
		Average		Std Dev		Average		Std Dev		Traffic Channel		
		25.12 dBm		0.24 dBm		25.17 dBm		0.03 dBm		810		
		200 /200							Single			
											HS TX Level	
									Modulation Coding Scheme			
									Return			
		Active Cell Transferring				Sys Type: EGPRS						
1 of 2						IntRef		Offset		R T		
										1 of 2		

Agilent

R T

Freq/Channel

FCC ID:A3LGTC3230 Band Edge Ch.512 EDGE

Ref 26 dBm

Atten 30 dB

#Avg

Log

10

dB/

Offst

8.95

dB

DI

-13.0

dBm

PAvg

M1 S2

S3 FC

AL

£(f):

f>50k

Swp



Center 1.850 000 00 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:A3LGTC3230 Band Edge Ch.512 EDGE

Mkr1 1.849 978 61 GHz

Ref 26 dBm

Atten 30 dB

-25.57 dBm

#Avg

Log

10

dB/

Offst

8.95

dB

DI

-13.0

dBm

PAvg

M1 S2

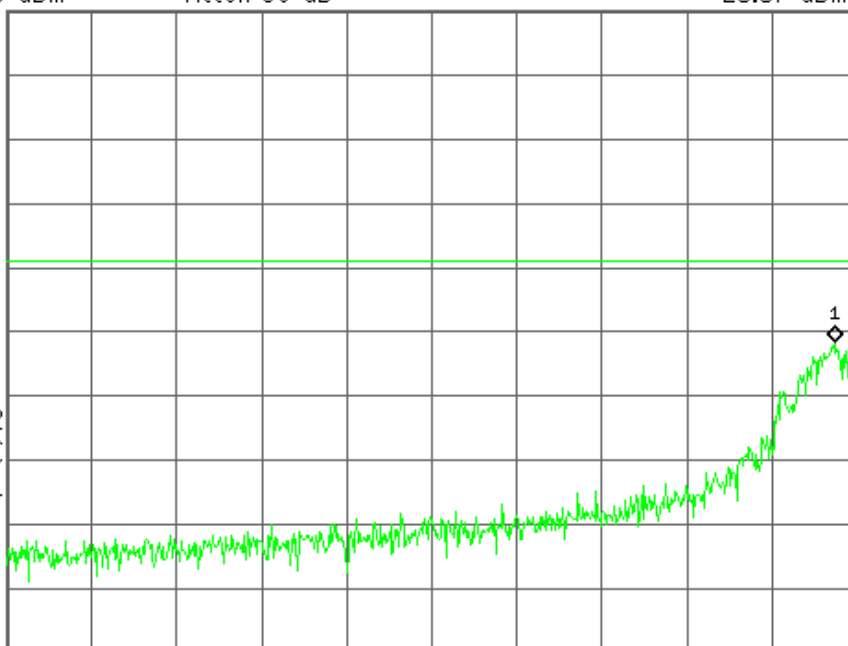
S3 FC

AL

£(f):

f>50k

Swp



Center 1.849 595 00 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 T

Freq/Channel

FCC ID:A3L6TC3230 Band Edge Ch.810 EDGE

Ref 26 dBm

Atten 30 dB

#Avg

Log

10

dB/

Offst

8.95

dB

DI

-13.0

dBm

PAvg

M1 S2

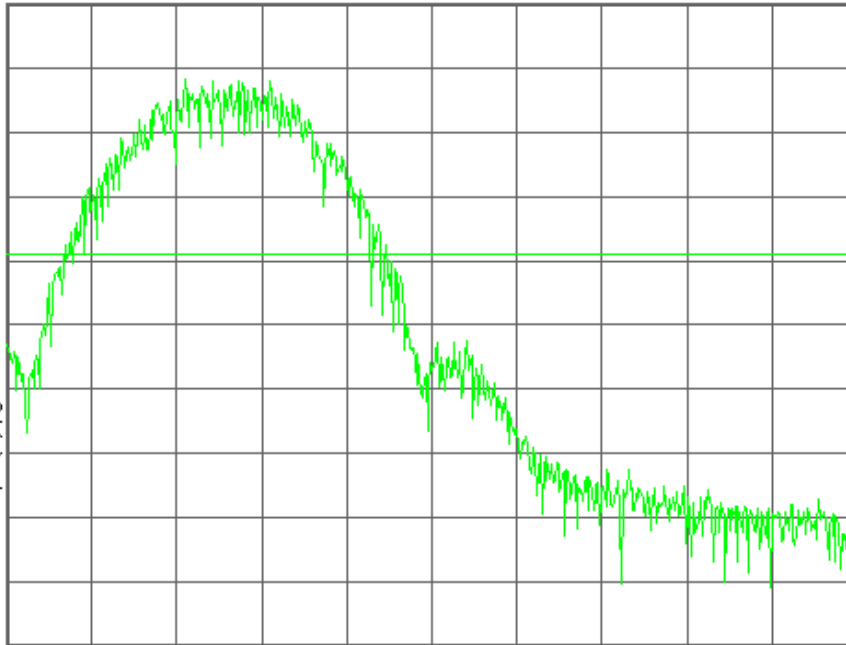
S3 FC

AL

£(f):

f>50k

Swp



Center 1.910 000 00 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
81.00000000 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:A3L6TC3230 Band Edge Ch.810 EDGE

Mkr1 1.910 021 78 GHz

Ref 26 dBm

Atten 30 dB

-27.10 dBm

#Avg

Log

10

dB/

Offst

8.95

dB

DI

-13.0

dBm

PAvg

M1 S2

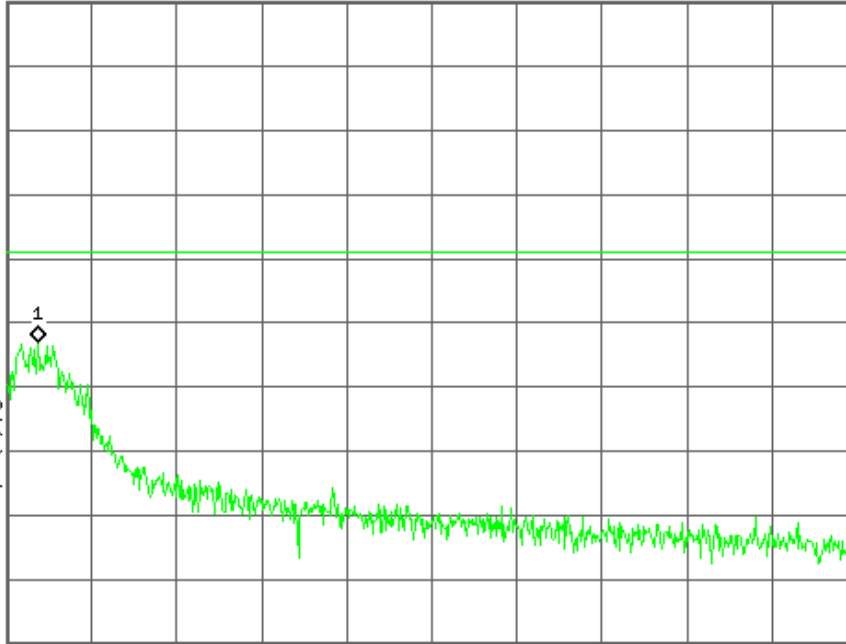
S3 FC

AL

£(f):

f>50k

Swp



Center 1.910 405 00 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
81.00000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

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

FCC ID:A3LGTC3230 P.A.R Ch.661 Edge

▲ Mkr1 0 Hz

Ref 35 dBm

#Atten 40 dB

-0.28 dB

#Avg

Log

10

dB/

Offst

8.95

dB

#LgAv

V1 M2

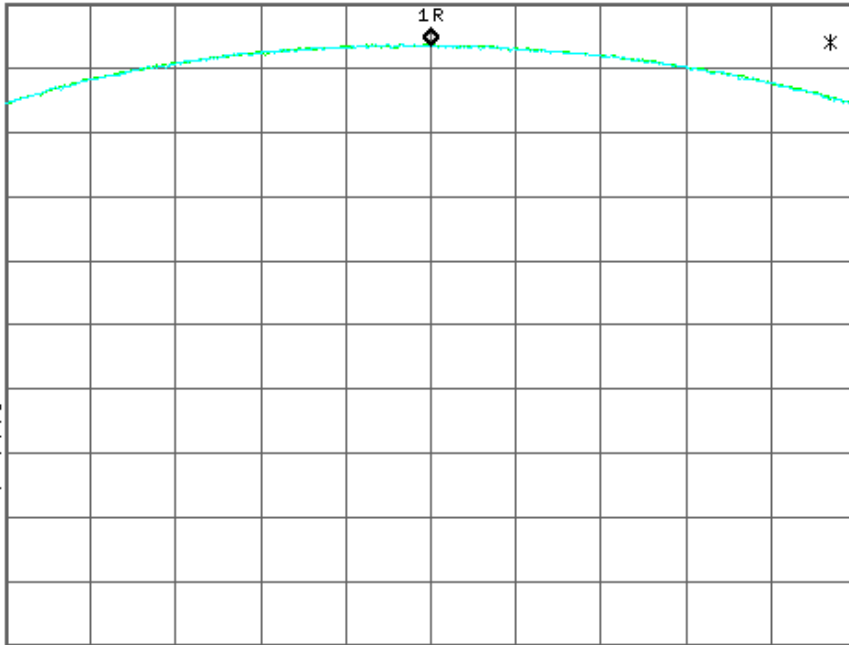
S3 FC

AL

£(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

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