

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

FCC CFR47 PART 22 & 24 SUBPART CERTIFICATION REPORT

Model Tested	:	SGH-T379
FCC ID(Requested)	:	A3LSGHT379
Report No	:	FI-116-R1
Job No	:	FI-116
Date issued	:	June 20, 2011

- Abstract -

All measurement reported herein accordance with FCC Rules, 47CFR Part2, Part22, Part24.

Prepared By

HK LEE – Test Engineer

Authorized By

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MEASUREMENT REPORT

<u>1. FCC Certification Information</u>

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	:	A3LSGHT379
• Medel	:	SGH-T379
Quantity	:	Quantity production is planned
Emission Designators	:	253KGXW(GSM850), 246KG7W(GSM850 EDGE)
		250KGXW(GSM1900), 244KG7W(GSM1900 EDGE)
Tx Freq. Range	:	824.2 - 848.8MHz (GSM850)
		1850.2MHz - 1909.8MHz (GSM1900)
Rx Freq. Range	:	869.2 - 893.8 MHz (GSM850)
		1930.2MHz - 1989.8MHz (GSM1900)
Max. Power Rating	:	0.488 W ERP GSM850 (26.88 dBm)
		1.521 W EIRP GSM1900 (31.82 dBm)
		0.143 W ERP GSM850 EDGE(21.54 dBm)
		1.021 W EIRP GSM1900 EDGE(30.09 dBm)
 FCC Classification(s) 	:	PCS Licensed Portable Tx Held to Ear (PCE)
Equipment (EUT) Type	:	850/1900 GSM/GPRS/EDGE and AWS/PSC WCDMA/
		HSDPA Phone with Bluetooth
Frequency Tolerance	:	±0.00025% (2.5ppm)
FCC Rule Part(s)	:	§24(E), §22(H), §2.
Dates of Test	:	June 16-17, 2011
Place of Test	:	SAMSUNG Lab,
Test Report S/N	:	FI-116-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.

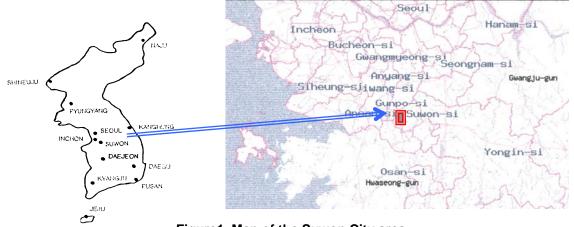


Figure1. Map of the Suwon City area.

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.



Figure 2. 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	2011-10-21
	E4440A(3Hz~26.5GHz)	MY46187454	2012-03-08
Network Analyzer	8753E	JP38160590	2011-06-18
Pre-Amplifier	8449B	3008A00691	2011-12-15
Communication test set	8960	MY47510060	2012-03-08
	8960	GB42230535	2011-12-23
Controller	CO2000	CO2000/424	Not Required
Turn Unit	СТ0800	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	2011-09-23
	BBHA9120	9120D-637	2011-09-24
Dipole Antenna	UHA 9105	9105-2412	2011-10-06
	UHA 9105	9105-2413	2012-07-15
Receive Antenna	HL040	353255/019	2011-10-26
Power Supply	E3640A	MY40003595	2012-05-27
	E3632A	MY40022438	2012-03-08
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	2011-11-15
	SH-241	92000548	2011-11-15
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

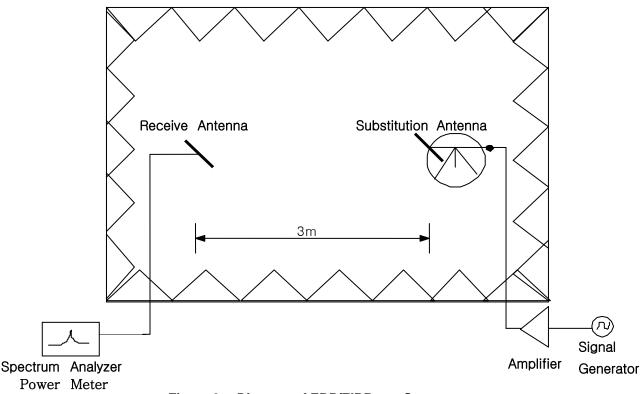


Figure 3. Diagram of ERP/EIRP test Set-up

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

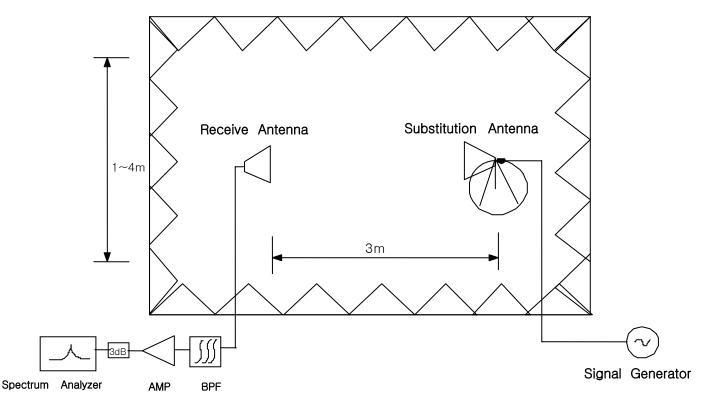


Figure 4. Diagram of Radiated Spurious & Harmonic test Set-up

The EUT was placed on the rotating device at 3-meters from the receive antenna 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 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.



BLOCK	Freq. Range (MHz) Transmitter (Tx)	Freq. Range (MHz) Receiver (Rx)
A	1850 – 1865	1930 – 1945
В	1870 – 1885	1950 – 1965
С	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
В	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 (0.488 W) = 39.88 dB 26.88 dBm - 39.88 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°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 (± 2.5 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.
- 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.
- 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.Effective Radiated Power (E.R.P.)

Supply Voltage : 3.7VDC Modulation : GSM850

Reference level

Frequency (MHz)	Output (dBm)	Polarization (H/V)	S/A (dBm)	Ant gain (dBd)	Ref level (dBm)
824.20	25.00	Н	-12.56	-0.67	-11.89
024.20	25.00	V	-13.38	-0.67	-12.71
000.00	836.60 26.00	Н	-12.00	-0.73	-11.27
836.60		V	-12.30	-0.73	-11.57
0.40.00		Н	-13.18	-0.79	-12.39
848.80	27.00	V	-12.36	-0.79	-11.57

Result (Slide Down)

Frequency (MHz)	Tested level (dBm)	Polarization (H/V)	Azimuth (angle)	ERP (dBm)	ERP (W)	Battery
824.20	-11.67	Н	291/90	25.22	0.333	Standard
836.60	-11.36	Н	291/100	25.91	0.390	Standard
848.80	-12.51	Н	290/80	26.88	0.488	Standard

EDGE Result

Frequency	Tested level	Polarization	Azimuth	ERP	ERP	Battery
(MHz)	(dBm)	(H/V)	(angle)	(dBm)	(W)	
848.80	-17.90	Н	290/80	21.54	0.143	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. 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	30.00	Н	-9.32	9.60	-18.92
1030.20	30.00	V	-8.91	9.60	-18.51
		Н	-6.95	9.60	-16.55
1880.00	32.00	V	-7.32	9.60	-16.92
1000.00		Н	-9.49	9.60	-19.09
1909.80	30.00	V	-9.17	9.60	-18.77

Result (Slide Down)

Frequency (MHz)	Tested level (dBm)	Polarization (H/V)	Azimuth (angle)	EIRP (dBm)	EIRP (W)	Battery
1850.20	-18.37	V	210/80	30.14	1.033	Standard
1880.00	-17.10	V	221/80	31.82	1.521	Standard
1909.80	-19.38	Н	113/0	29.71	0.935	Standard

EDGE Result

Frequency	Tested level	Polarization	Azimuth	EIRP	EIRP	Battery
(MHz)	(dBm)	(H/V)	(angle)	(dBm)	(W)	
1880.00	-18.83	V	221/80	30.09	1.021	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



6.3. GSM850 Radiated Spurious & Harmonic measurement

Operating Frequency : 824.20 MHz(Low), 836.60MHz(Middle), 848.80MHz(High)

Measured Output Power : 26.88 dBm = 0.488 W

Modulation Signal : GSM850

Limit : $43 + 10\log_{10}(P) = 39.88 \text{ dBc}$

Result

Channel	Harmonic	Frequency (MHz)	From EUT Tested level (dBm)	POL (H/V)	Result (dBc)
	2	1648.40	-64.29	Н	78.58
	3	2472.60	-52.91	Н	61.96
128	4	3296.80	-57.38	V	62.56
120	5	4121.00	-	-	-
	6	4945.20	-	-	-
	7	5769.40	-	-	-
	2	1673.20	-59.49	Н	73.53
	3	2509.80	-58.41	Н	67.25
190	4	3346.40	-58.92	V	64.19
190	5	4183.00	-	-	-
	6	5019.60	-	-	-
	7	5856.20	-	-	-
	2	1697.60	-57.62	Н	70.38
	3	2546.40	-55.00	Н	64.39
251	4	3395.20	-65.74	V	70.87
201	5	4244.00	-	-	-
	6	5092.80	-	-	-
	7	5941.60	-	-	-

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



6.4. GSM1900 Radiated Spurious & Harmonic measurement

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

Measured Output Power : 31.82 dBm = 1.521 W

Modulation Signal : GSM1900

Limit : $43 + 10\log_{10}(P) = 44.82 \, dBc$

Result

Channel	Harmonic	Frequency (MHz)	From EUT Tested level (dBm)	POL (H/V)	Result (dBc)
	2	3700.40	-55.82	Н	60.66
	3	5550.60	-62.91	Н	64.33
510	4	7400.80	-69.20	V	65.46
512	5	9251.00	-	-	-
	6	11101.20	-	-	-
	7	12951.40	-	-	-
	2	3760.00	-50.90	Н	55.83
	3	5640.00	-66.88	Н	67.96
001	4	7520.00	-69.46	Н	65.52
661	5	9400.00	-	-	-
	6	11280.00	-	-	-
	7	13160.00	-	-	-
	2	3819.60	-48.62	Н	53.49
	3	5729.40	-67.39	Н	68.01
84.0	4	7639.20	-68.90	V	65.80
810	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.

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

Report Number : FI-116-R1



6.5. GSM850 Radiated Spurious & Harmonic Conversion Table

Date: June 17, 2011

Test Engineer: HK LEE

- 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) = ERP + 2.15 (-13 + (5) (4))

СН	Har	Frequency (MHz)	① Tx C/L dB	©Tx Horn Gain dBi	③Tx Level dBm	④ ESI Level: H dBm	④ ESI Level:V dBm	⑤Teste d EUT Level : H dBm	⑤Teste d EUT Level : V dBm	⑥ Result EUT:H (dBc)	⑥ Result EUT:V (dBc)
	2	1648.40	-8.77	9.40	-13.60	-27.73	-27.03	-64.29	-65.85	78.58	80.84
	3	2472.60	-11.12	10.60	-12.50	-32.97	-32.23	-52.91	-62.56	61.96	72.35
128	4	3296.80	-12.19	12.00	-12.80	-36.08	-36.84	-57.71	-57.38	63.65	62.56
120	5	4121.00	-13.85	12.60	-11.80	-39.75	-39.33	-	-	-	-
	6	4945.20	-15.03	12.70	-10.70	-42.44	-42.28	-	-	-	-
	7	5769.40	-17.11	13.10	-9.00	-44.12	-44.43	-	-	-	-
	2	1673.20	-8.83	9.40	-13.60	-27.98	-27.21	-59.49	-59.25	73.53	74.06
	3	2509.80	-11.24	10.60	-12.40	-33.18	-32.42	-58.41	-62.48	67.25	72.08
190	4	3346.40	-12.13	12.00	-12.90	-36.09	-36.75	-58.81	-58.92	64.74	64.19
130	5	4183.00	-14.18	12.60	-11.40	-39.47	-39.56	-	-	-	-
	6	5019.60	-15.91	12.70	-9.80	-42.07	-42.44	-	-	-	-
	7	5856.20	-17.15	13.10	-9.00	-45.07	-44.94	-	-	-	-
	2	1697.60	-8.88	9.40	-13.50	-29.26	-28.45	-57.62	-57.07	70.38	70.64
	3	2546.40	-11.22	10.60	-12.40	-32.63	-32.85	-55.00	-60.33	64.39	69.50
251	4	3395.20	-12.28	12.00	-12.70	-36.60	-36.89	-65.51	-65.74	70.93	70.87
201	5	4244.00	-14.15	12.60	-11.50	-39.36	-39.77	-	-	-	-
	6	5092.80	-16.16	12.70	-9.50	-42.73	-42.38	-	-	-	-
	7	5941.60	-17.34	13.10	-8.80	-45.37	-45.34	-	-	-	-



6.6. GSM1900 Radiated Spurious & Harmonic Conversion Table

Date: June 17, 2011

Test Engineer: HK LEE

- 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))

СН	Har	Frequency (MHz)	① Tx C/L dB	@Tx Horn Gain dBi	③Tx Level dBm	④ ESI Level: H dBm	④ ESI Level:V dBm	⑤Teste d EUT Level : H dBm	⑤Teste d EUT Level : V dBm	⑥ Result EUT:H (dBc)	⑥ Result EUT:V (dBc)
	2	3700.40	-12.85	12.60	-12.80	-39.98	-39.03	-55.82	-55.52	60.66	61.31
	3	5550.60	-16.92	12.50	-8.60	-43.40	-42.99	-62.91	-63.86	64.33	65.69
540	4	7400.80	-20.20	11.50	-4.30	-48.71	-48.56	-69.72	-69.20	65.83	65.46
512	5	9251.00	-23.05	11.90	-1.90	-53.11	-52.12	-	-	-	-
	6	11101.20	-25.08	11.50	0.60	-57.75	-54.90	-	-	-	-
	7	12951.40	-28.10	14.42	0.70	-61.50	-58.01	-	-	-	-
	2	3760.00	-13.35	12.60	-12.30	-39.89	-39.16	-50.90	-51.44	55.83	57.10
	3	5640.00	-17.07	12.50	-8.40	-43.74	-43.42	-66.88	-67.73	67.96	69.13
001	4	7520.00	-20.60	11.50	-3.90	-48.76	-48.06	-69.46	-69.40	65.52	66.16
661	5	9400.00	-23.50	11.90	-1.40	-52.65	-51.24	-	-	-	-
	6	11280.00	-26.24	11.50	1.70	-56.66	-54.54	-	-	-	-
	7	13160.00	-28.79	14.42	1.40	-61.01	-57.76	-	-	-	-
	2	3819.60	-13.30	12.60	-12.30	-39.95	-39.55	-48.62	-48.51	53.49	53.78
	3	5729.40	-17.16	12.50	-8.30	-44.20	-43.35	-67.39	-67.29	68.01	68.76
	4	7639.20	-20.88	11.50	-3.60	-48.25	-47.92	-69.32	-68.90	65.89	65.80
810	5	9549.00	-24.09	11.90	-0.80	-52.88	-51.48	-	-	-	-
	6	11458.80	-26.05	11.50	1.60	-57.49	-54.67	-	-	-	-
	7	13368.60	-28.74	14.42	1.30	-63.03	-59.49	-	-	-	-



6.7. Frequency Stability

6.7.1. GSM850 Frequency Stability Table

Operating Frequency : 836,600,000 Hz

Channel: 190

Reference Voltage : 3.7VDC

Deviation Limit : ± 0.00025 % or 2.5ppm

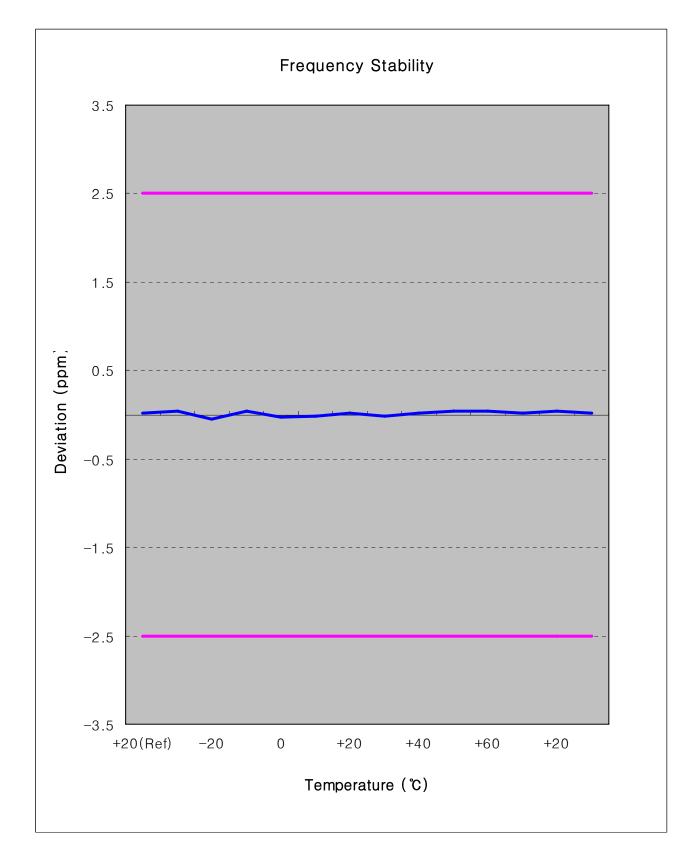
Voltage (%)	Power (VDC)	Temp. (^o C)	Frequency Error (Hz)	Frequency (Hz)	Deviation (%)	ppm
100%		+20(Ref)	-8.40	836,599,992	-0.000001	-0.010
100%		-30	16.90	836,600,017	0.00002	0.020
100%		-20	9.00	836,600,009	0.000001	0.011
100%		-10	41.60	836,600,042	0.000005	0.050
100%		0	15.20	836,600,015	0.00002	0.018
100%	3.70	+10	30.00	836,600,030	0.000004	0.036
100%		+20	-8.40	836,599,992	-0.000001	-0.010
100%		+30	2.50	836,600,003	0.000000	0.003
100%		+40	26.80	836,600,027	0.000003	0.032
100%		+50	26.90	836,600,027	0.000003	0.032
85%	3.35	+20	5.30	836,600,005	0.000001	0.006
115%	4.26	+20	35.80	836,600,036	0.000004	0.043
Batt.Endpoint	3.35	+20	5.30	836,600,005	0.000001	0.006

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.

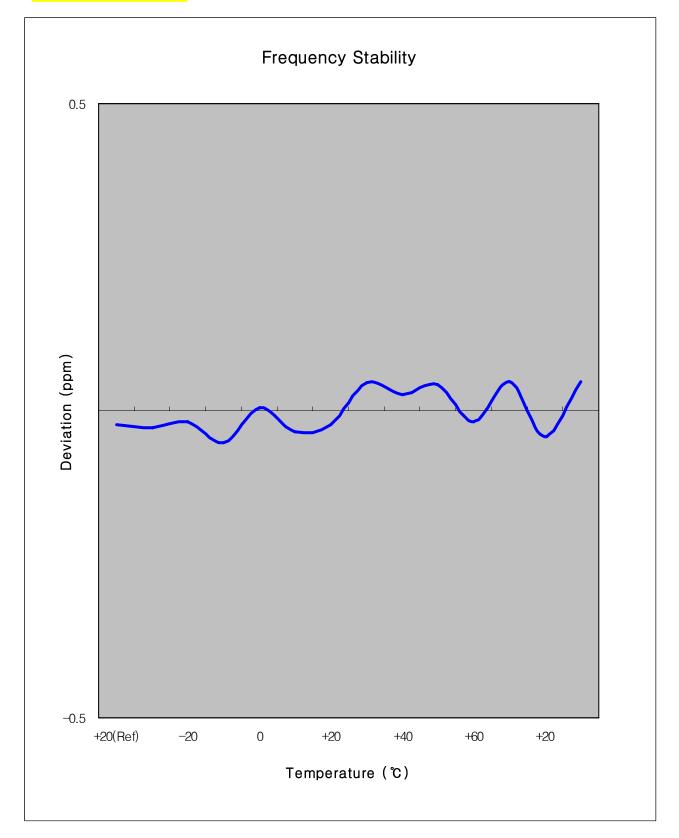


6.7.2. GSM850 Frequency Stability Graph











6.7.3. GSM1900 Frequency Stability Table

Operating Frequency : 1,880,000,000 Hz

Channel : 661

Reference Voltage : 3.7VDC

Deviation Limit : ±0.00025 % or 2.5ppm

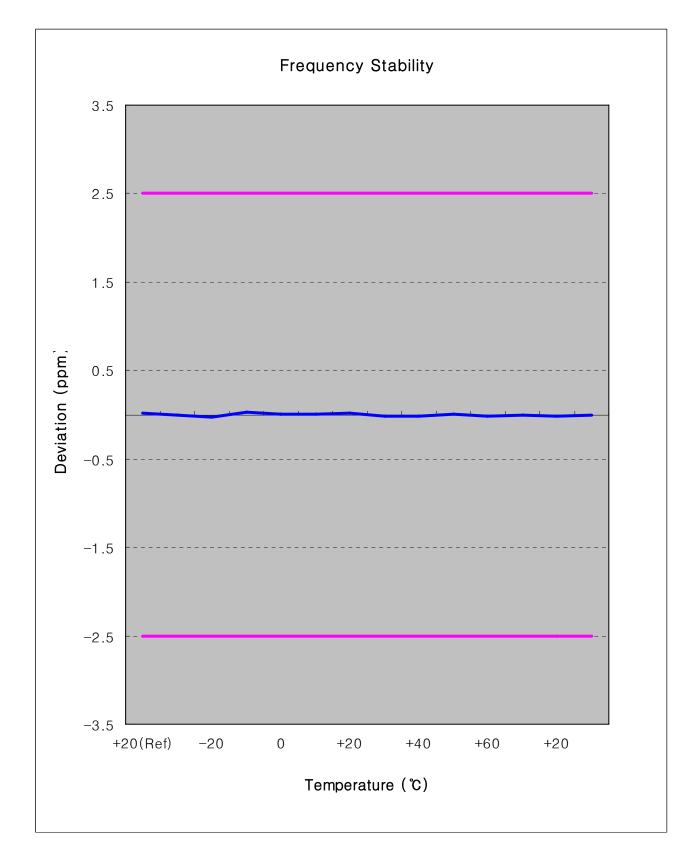
Voltage (%)	Power (VDC)	Temp. (^o C)	Frequency Error (Hz)	Frequency (Hz)	Deviation (%)	ppm
100%		+20(Ref)	47.00	1,880,000,047	0.000003	0.025
100%		-30	30.40	1,880,000,030	0.000002	0.016
100%		-20	-20.00	1,879,999,980	-0.000001	-0.011
100%		-10	34.70	1,880,000,035	0.000002	0.018
100%		0	15.60	1,880,000,016	0.000001	0.008
100%	3.70	+10	37.80	1,880,000,038	0.000002	0.020
100%		+20	47.00	1,880,000,047	0.000003	0.025
100%		+30	8.00	1,880,000,008	0.000000	0.004
100%		+40	-2.60	1,879,999,997	0.000000	-0.001
100%		+50	19.50	1,880,000,020	0.000001	0.010
85%	3.35	+20	34.90	1,880,000,035	0.000002	0.019
115%	4.26	+20	7.10	1,880,000,007	0.000000	0.004
Batt.Endpoint	3.35	+20	34.90	1,880,000,035	0.000002	0.019

Note : The temperature is varied from -30 $^{\rm o}$ C to +50 $^{\rm o}$ C using an environmental chamber.

The EUT is tested down to the battery end point.

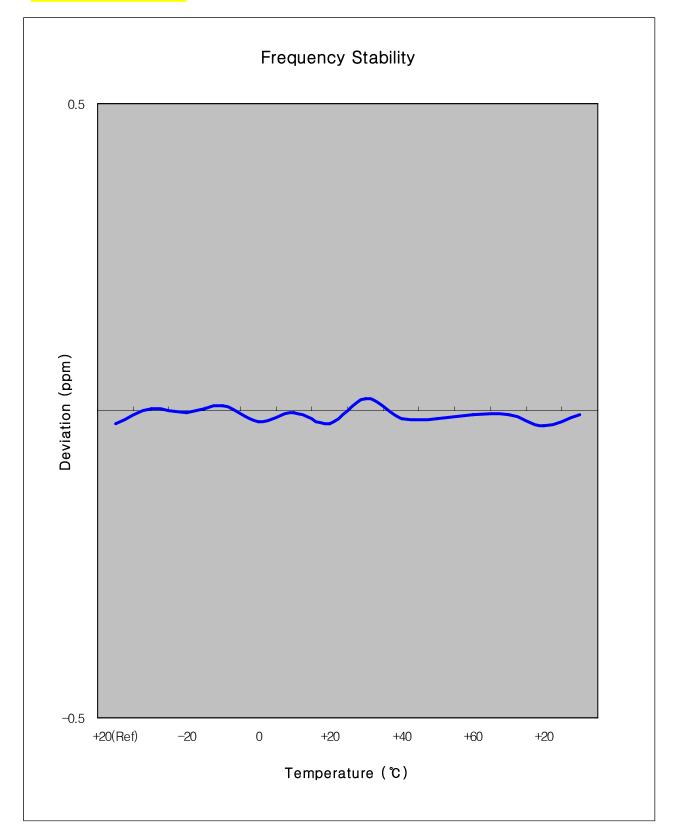


6.7.4. GSM1900 Frequency Stability Graph











7. CONCLUSION

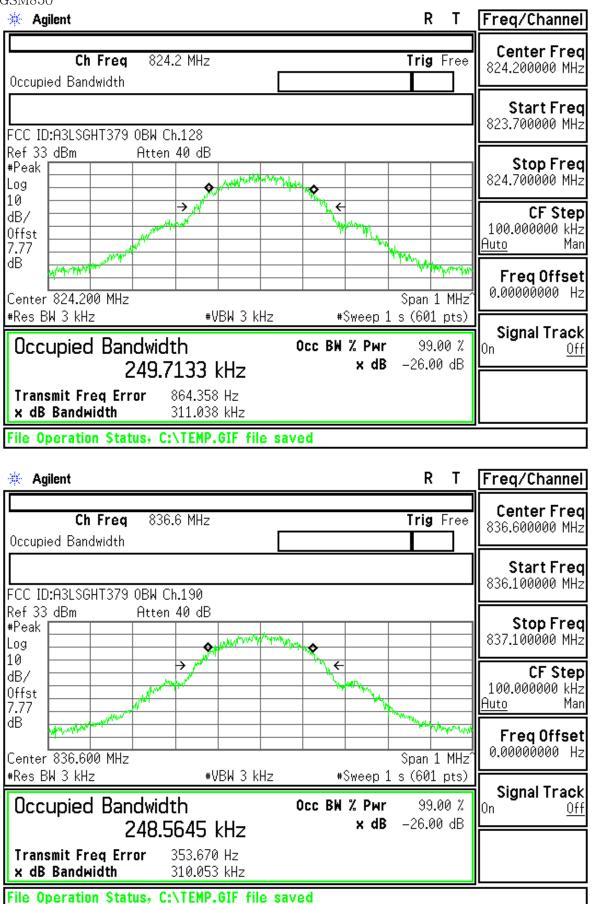
The data collected shows that the SAMSUNG 850/1900 GSM/GPRS/EDGE and AWS/PSC WCDMA/HSDPA Phone with Bluetooth.

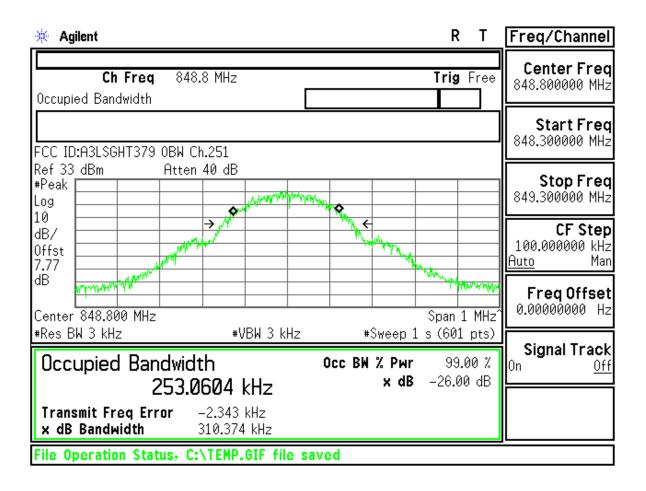
FCC ID : A3LSGHT379 complies with all the requirements of Parts 2,22,24 of the FCC Rules.



8. TEST PLOTS

GSM850





Control		Trai	nsmit P	ower			TCH	Parms
ransmil Pouer Setup _▽	_							uk Traffiu Iquer
`	Bu	urst 1 Burst 2	Burst 3	Burst 4 Burst		Burst E		
	BP	32.41					Traffic	: Band
	ECP	32.41					6	SH850
		 Traffic	: Channel					
		gle	128					
		IIS TX	Level					
		Peak Phase •	RIIS F	hase •	Frequer	ncy Hz		5
	llinimum	3.16		1.42		7.22		
Suap Hindou	Haximum	4.66	1.79		21.34			nel Node
Positions	Average	3.85		1.65	1	4.65	2	Setup
	Pass/Fai	1 Pass		Pass		Pass		
	50 /50	ole R	eturn					
		Active Cel			Sys Type	: 6811		
1 of 2		IntE	ef Offse	t B T			1	of 2

FCC ID : A3LSGHT379 Transmit Power 128CH

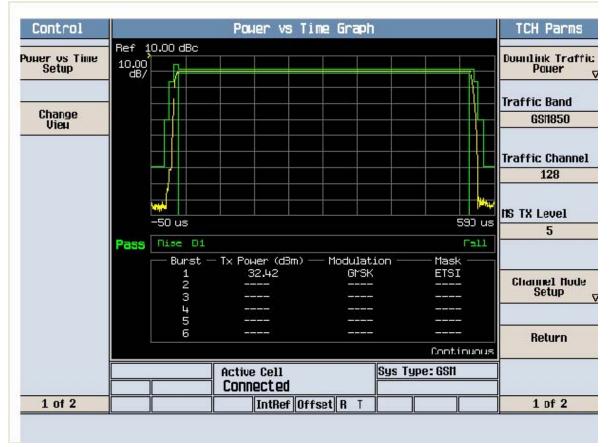
FCC ID : A3LSGHT379 Transmit Power 190CH

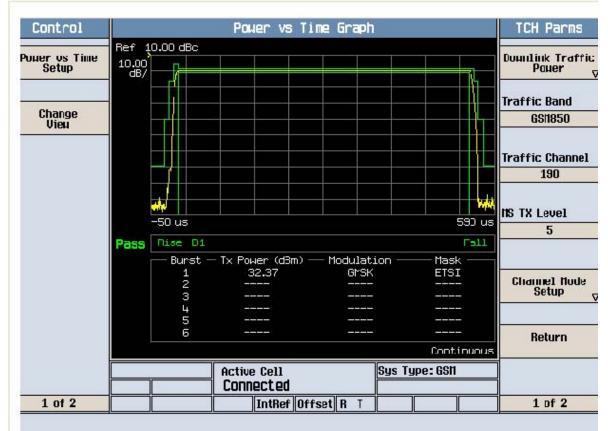
Control		TI	ransmit P	Power			TCH Parms	
ansmit Power Setup 🗸	-						Dounlink Traffic Pouer	
v	B	urst 1 Burst	2 Burst 3	Burst 3 Burst 4		Burst 6		
	BP	32.38					Traffic Band	
	ECP	32.38					GS/1850	
		Traffic Channel						
		190						
-	_	Fildae	& Freque		u	_	IIS TX Level	
		Peak Phase	e • RMS	Phase •	Frequer	ncy Hz	5	
	Hinimum	3.1	.8	1.40		7.51		
Suap Hindou Positions	Haximum	4.6	;3	1.73	1	9.26	Channel Hode	
POSITIONS	Average	3.8	6	1.58	1	3.46	Setup	
	Pass/Fai	1 Pas	is	Pass		Pass		
	50 /50	Return						
Ē		Active			Sys Type	: 6511]	
		Conne						
1 of 2		I	ntRef Offs	et B T			1 of 2	

Control		Tra	nsmit P	over			TCH Parms
ransmit Pouer Setup ⊽							Dunnlink Traft Pouer
Ť	Bu	rst 1 Burst 2	Burst 3	Burst 4	Burst 5	Burst 6	i
	BP 3	32.30					Traffic Band
	ECP S	32.30					GS11850
		 Traffic Channe gle 251					
		IIS TX Level					
		Peak Phase •	RIIS	Phase °	Freque	ncy Hz	5
	Hinimum	3.23		1.33		5.33	
Suap Hindon	Naximum	5.02	1.74		20.06		Channel Hode
Positions	Average	3.78		1.54	1	4.53	Setup
	Pass/Fail	Pass		Pass	Pass		
	50 /50	ole Return					
		Active Cel Connect			Sys Type	: GSM	
1 of 2		Int	Ref Offse	t B T			1 pf 2

FCC ID : A3LSGHT379 Transmit Power 251CH

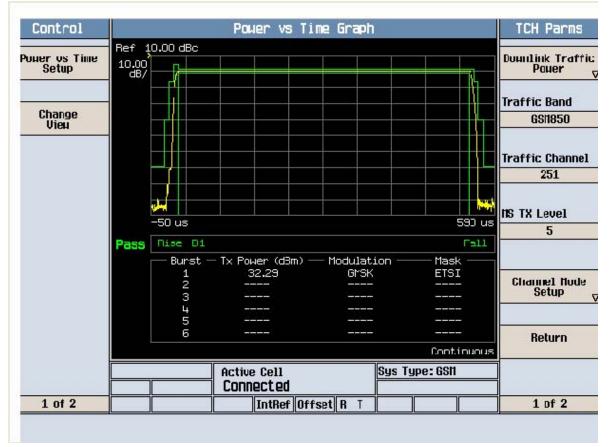
FCC ID : A3LSGHT379 GMSK Power vs Time 128CH

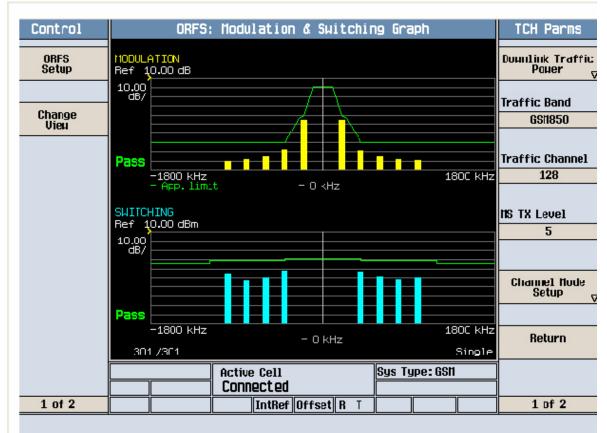




FCC ID : A3LSGHT379 GMSK Power vs Time 190CH

FCC ID : A3LSGHT379 GMSK Power vs Time 251CH

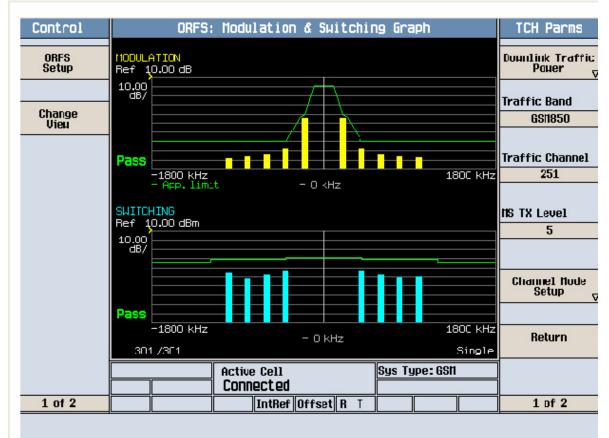




FCC ID : A3LSGHT379 Modulation & Switching 128CH

FCC ID : A3LSGHT379 Modulation & Switching 190CH





FCC ID : A3LSGHT379 Modulation & Switching 251CH

🔆 Ag	jilent								I	RТ	Freq/Channel
Ref 33):A3LSG dBm	HT379	Cond S Atten		.128						Center Freq 1.25500000 GHz
₩Peak Log											1.2000000 0112
10 dB/ Offst					AC	Couple	d: unsp	ecified	below	20 MHz	Start Freq 10.0000000 MHz
7.77 dB DI											Stop Freq 2.50000000 GHz
-13.0 dBm #LgAv											CF Step 249.000000 MHz Auto Man
M1 S2		arter Aust	<u>N. Marina</u> an	M. Maria		the state of the s	eracenthe	and a second	underm	minular	Freq Offset
£ (f): FTun Swp											Signal Track On <u>Off</u>
	· 1.255 W 1 MH			#\	BW 1 M	Hz	Swee			49 GHz 01 pts)	
File 0	File Operation Status, C:\TEMP.GIF file saved										

🔆 Ag	gilent									RТ	Freq/Channel
FCC II Ref 33 #Peak	D:A3LSG 3 dBm	HT379	Cond S Atten		128			Mk		0.9 MHz 62 dBm	Center Freq 414.600000 MHz
Log 10 dB/ Offst					AC	Couple	d: unsp	ecified	below	20 MHz	Start Freq 10.0000000 MHz
7.77 dB DI											Stop Freq 819.200000 MHz
-13.0 dBm #LgAv											CF Step 80.9200000 MHz <u>Auto</u> Man
V1 S2 S3 FC		dinan waa d	rest allower	mayle Andres	ekonomerkan	داستيه الم منابع	arter and the second			al attack and the	FreqOffset 0.00000000 Hz
€(f): FTun Swp											Signal Track ^{On <u>Off</u>}
#Res E	Center 414.6 MHz Span 809.2 MHz #Res BW 1 MHz #VBW 1 MHz Sweep 1.36 ms (601 pts) File Operation Status, C:\TEMP.GIF file saved										
rile U	peratio	n stat	us, c:	VIEWP.	01F TI	e save	a				

🔆 Agi	ilent								R	?Т	Freq/Channel
FCC ID Ref 33 #Peak		HT379	Cond S Atten		128			Mk		72 GHz 1 dBm	Center Freq 1.66460000 GHz
Log 10 dB/ Offst											Start Freq 829.200000 MHz
7.77 dB DI											Stop Freq 2.50000000 GHz
-13.0 dBm #LgAv											CF Step 167.080000 MHz <u>Auto</u> Man
M1 S2 S3 FC	an a	ali dan da ana	*****	ماموهور تراكهم	بغيثاب يعتاف		-and the second second	anonah M	drawn yn	1 ••••••••••••	FreqOffset 0.00000000 Hz
€(f): FTun Swp											Signal Track ^{On <u>Off</u>}
Center #Res Bl	W 1 MH:	z			BW 1 M			Sp ep 2.8	an 1.67 ms (60		
File Op	File Operation Status, C:\TEMP.GIF file saved										

* Agilent R T											Freq/Channel
FCC ID Ref 33 #Peak):A3LSG }dBm ┎	HT379	Cond S Atten		128			Mk		75 GHz 7 dBm	Center Freq 6.25000000 GHz
Log 10 dB/ Offst											Start Freq 2.50000000 GHz
7.77 dB DI											Stop Freq 10.0000000 GHz
-13.0 dBm #LgAv											CF Step 750.000000 MHz <u>Auto</u> Man
V1 S2 S3 FC	march	++hanneykann	manula	handerlevte	n	mangel	yanthan	Margharithaugh	- automatic		FreqOffset 0.00000000 Hz
€(f): FTun Swp											Signal Track On <u>Off</u>
Center 6.250 GHz Span 7.5 GHz #Res BW 1 MHz #VBW 1 MHz Sweep 12.52 ms (601 pts)											
File Operation Status, C:\TEMP.GIF file saved											

🔆 Ag	ilent								F	₹Т	Freq/Channel
FCC ID Ref 33		HT379	Cond S Atten		.190				I		Center Freq 1.25500000 GHz
#Peak Log 10											
dB/ Offst					AC	Couple	d:unsp	ecified	below i	20 MHz	Start Freq 10.0000000 MHz
7.77 dB DI											Stop Freq 2.50000000 GHz
-13.0 dBm #LgAv											CF Step 249.000000 MHz <u>Auto</u> Man
M1 S2 S3 FC		here here and	nod polya ya bi	يلى يىغالدى	a satura an	dente angele	uton and and		annahala	Angenation	FreqOffset 0.00000000 Hz
£ (f): FTun Swp											Signal Track On <u>Off</u>
Center #Res B	1.255 W 1 MH			#V	 BW 1 M	Hz	Swee	S p 4.16		49 GHz)1 pts)	
File 0	peratio	n Stat	us, C:'	TEMP.	GIF fil	e save	d				

<u>₩</u> A	gilent								F	₹Т	Freq/Channel
	D:A3LSG 3 dBm	HT379	Cond S Atten		190			Mk		0.3 MHz 34 dBm	Center Freq 420.800000 MHz
Log 10 dB/ Offst					AC	Couple	d: unsp	ecified	below	20 MHz	Start Freq 10.0000000 MHz
7.77 dB DI											Stop Freq 831.600000 MHz
-13.0 dBm #LgAv											CF Step 82.1600000 MHz <u>Auto</u> Man
V1 S; S3 F(2 C	andred terrated			aliana di chaqoa	gal, was	1 \$	~~~			FreqOffset 0.00000000 Hz
£ (f): FTun Swp											Signal Track ^{On <u>Off</u>}
#Res	er 420.8 BW 1 MH	z			BW 1 M					6 MHz)1 pts)	
File (Operatio	n Stat	us, C:	VIEMP.	GIF TI	e save	a				

🔆 Ag	jilent								R	: T	Freq/Channel
FCC ID Ref 33 #Peak		HT379	Cond S Atten		.190			Mk		74 GHz 1 dBm	Center Freq 1.67080000 GHz
Log 10 dB/ Offst											Start Freq 841.600000 MHz
7.77 dB DI											Stop Freq 2.50000000 GHz
−13.0 dBm #LgAv											CF Step 165.840000 MHz <u>Auto</u> Man
V1 S2 S3 FC			pt. ^{pa} nnia.,da	an see Anna	anter the first state of the st	1 • ••	and the second second		arran farante	abah an dari da	FreqOffset 0.00000000 Hz
£ (f): FTun Swp											Signal Track ^{On <u>Off</u>}
#Res B		z			BW 1 M			Sp ep 2.8	an 1.65 ms (60		
File Op	peratio	n Stat	us, C:	VIEMP.	eif ti	e save	a				

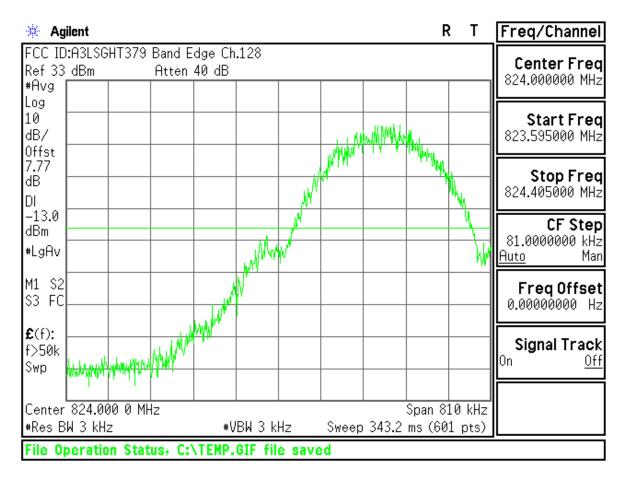
🔆 Ag	jilent								F	2 T	Freq/Channel
Ref 33 #Peak):A3LSG dBm	HT379	Cond S Atten		190			Mk		50 GHz 7 dBm	Center Freq 6.25000000 GHz
Log 10 dB/ Offst											Start Freq 2.50000000 GHz
7.77 dB DI											Stop Freq 10.0000000 GHz
-13.0 dBm #LgAv											CF Step 750.000000 MHz <u>Auto</u> Man
V1 S2 S3 FC	and had the	de la come	hurundun	horan and an	nunnt	New Martander Ad	alere and and	-		whicher	FreqOffset 0.00000000 Hz
£ (f): FTun Swp											Signal Track ^{On <u>Off</u>}
#Res B	6.250 W 1 MH	z			BW 1 M		-	12.52		.5 GHz 1 pts)	
File 0	peratio	n Stat	us, C:	VIEMP.	eif til	e save	a				

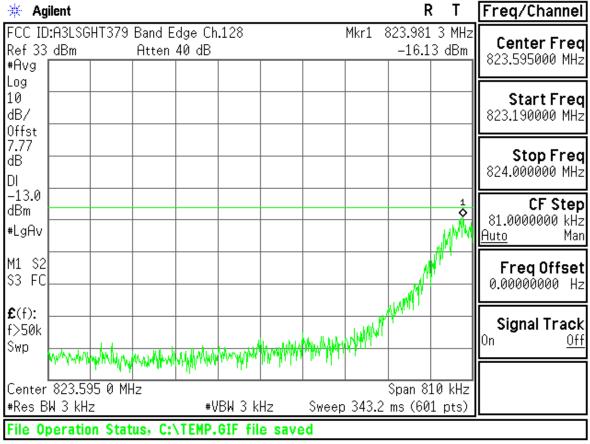
🔆 Ag	jilent								F	₹Т	Freq/Channel
FCC ID Ref 33 #Peak):A3LSG dBm	HT379	Cond S Atten								Center Freq 1.25500000 GHz
Log 10 dB/					AC	Couple	d: unsp	ecified	below	20 MHz	Start Freq 10.0000000 MHz
Offst 7.77 dB DI											Stop Freq 2.50000000 GHz
-13.0 dBm #LgAv											CF Step 249.000000 MHz <u>Auto</u> Man
M1 S2 S3 FC		her over the owner	les March, and		en plan and	nt to the second	almuri du		Jan Januara	gunger	FreqOffset 0.00000000 Hz
£ (f): FTun Swp											Signal Track ^{On <u>Off</u>}
#Res B	1.255 3W 1 MH	z			VBW 1 M			s p 4.16		49 GHz 11 pts)	
File O	peratio	n Stat	us, C:'	VLEWE	P.GIF fil	e save	d				

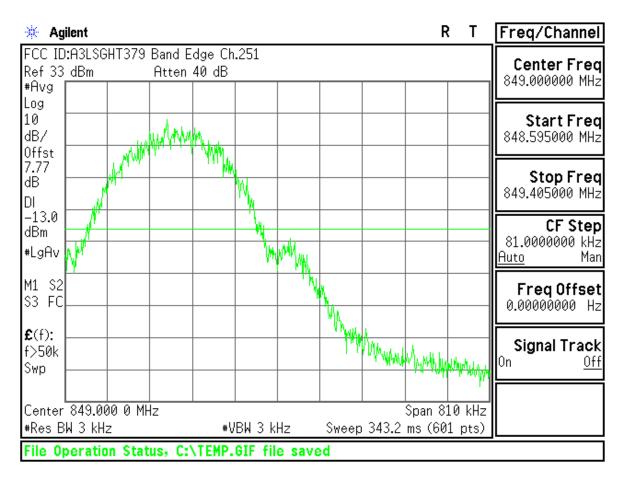
🔆 Agi	ilent								F	₹Т \$	Freq/Channel
FCC ID Ref 33 #Peak		HT379	Cond S Atten		251			Mk		L.7 MHz 5 dBm	Center Freq 426.900000 MHz
Log 10 dB/					AC	Couple	d: unsp	ecified	below (20 MHz	Start Freq 10.0000000 MHz
Offst 7.77 dB DI											Stop Freq 843.800000 MHz
-13.0 dBm #LgAv											CF Step 83.3800000 MHz <u>Auto</u> Man
	hortespect	والعكار ومعارفها ومرا	h _{an} ghqaa sa kada	y-spraty hilles.	and the second		1 • • •••••••	andy the share	yul	- Martha	FreqOffset 0.00000000 Hz
€(f): FTun Swp											Signal Track ^{On <u>Off</u>}
Center #Res Bl File Op	W 1 MH	z			BW 1 M			Sp ep 1.4		.8 MHz 1 pts)	
rie op	verauv	ποιαι	uaș Ci	VIEW.	ote til	e save	2 M				

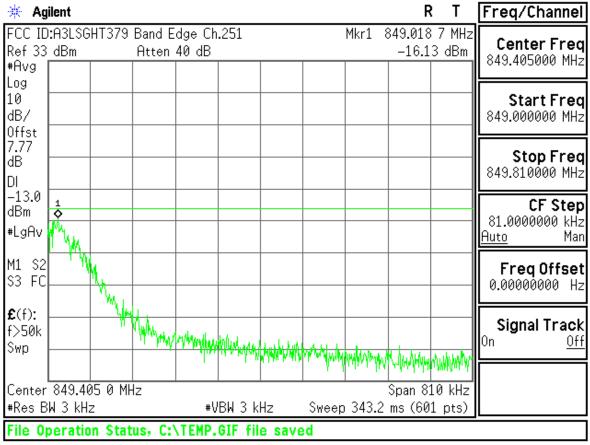
🔆 Ag	ilent								F	?Т	Freq/Channel
FCC ID Ref 33 #Peak		HT379	Cond S Atten		251			Mk		73 GHz 2 dBm	Center Freq 1.67690000 GHz
Log 10 dB/ Offst											Start Freq 853.800000 MHz
7.77 dB DI											Stop Freq 2.50000000 GHz
−13.0 dBm #LgAv											CF Step 164.620000 MHz <u>Auto</u> Man
V1 S2 S3 FC	voi hen di to	the all the party of the second s		~,	ayder-desayaa	Annasa	erne for the sec	<u></u>	hand	numerine	FreqOffset 0.00000000 Hz
£ (f): FTun Swp											Signal Track ^{On <u>Off</u>}
Center #Res B	W 1 MH	z			BW 1 M			Sp p 2.76	an 1.64 ms (60		
File Op	peratio	in Stat	us, C:\	TEMP.	GIF fil	e save	d				

🔆 Ag	jilent								F	2 T	Freq/Channel
Ref 33 #Peak):A3LSG dBm	HT379	Cond S Atten		251			Mk		12 GHz 2 dBm	Center Freq 6.25000000 GHz
Log 10 dB/ Offst											Start Freq 2.50000000 GHz
7.77 dB DI											Stop Freq 10.0000000 GHz
-13.0 dBm #LgAv											CF Step 750.000000 MHz <u>Auto</u> Man
V1 S2 S3 FC	~~~~	1940 Marthalton	when	Mandhime	or and the second s	and the	1 	Un de la companya de	uranten an	liker Northern Kern	FreqOffset 0.00000000 Hz
€(f): FTun Swp											Signal Track ^{On <u>Off</u>}
#Res B	6.250 W 1 MH	z			BW 1 M		· ·	12.52	Span 7 ms (60		
File 0	peratio	n stat	us, c:	VIEWP.	01F TH	e save	a				

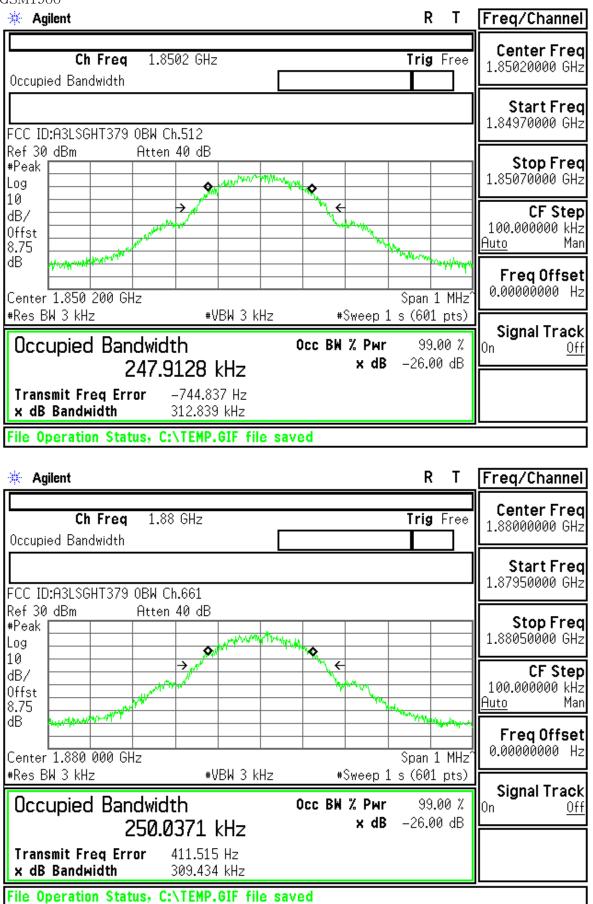








GSM1900



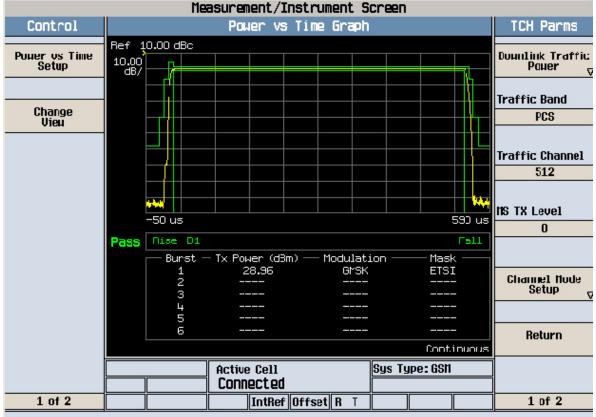
🔆 Agilent					F	req/Channel
Ch F Occupied Bandw	-	ЭНz		Trig Fre	e	Center Freq 1.90980000 GHz
FCC ID:A3LSGHT		0				Start Freq 1.90930000 GHz
Ref 30 dBm #Peak Log 10	Atten 40 (dB	****** *			Stop Freq 1.91030000 GHz
dB/					—IIIA	CF Step 100.000000 kHz <u>uto</u> Man
dB Center 1.909 80				Span 1 MH	lzî	FreqOffset 0.00000000 Hz
*Res BW 3 kHz	Bandwidth 248.894	*VBW 3 kHz	Occ BW % P	p1s(601pts wr 99.00; dB –26.00dE	κ ο	Signal Track
Transmit Fred x dB Bandwid	g Error 910.	018 Hz 081 kHz				
	Status, C:\TE					
CC ID : A3LSG	HT379 Transm M		2CH Instrument S o	reen		
Control			mit Power			TCH Parms
Transmit Power						Duunlink Traffig
Setup _V	Burst	1 Burst 2 B	urst 3 Burst 4	Burst 5 Burst	6	Pauer
	BP 28.9					
		70			-	Traffic Band
	ECP 28.9				-	Traffic Band PCS
	ECP 28.9				-	PCS
	ECP 28.9			 	- -	
	ECP 28.5	98			- -	PCS Traffic Channel 512
		98 Phase & Fi)r	- - .ngle	PCS Traffic Channel 512 NS TX Level
		Phase & Fi Peak Phase •	RIIS Phase •	pr Frequency Hz	- - ngle	PCS Traffic Channel 512
Diama Marchar		Phase & Fi Peak Phase • 4.23	RIIS Phase • 1.60	Frequency Hz	- - ngle	PCS Traffic Channel 512 IIS TX Level 0
Биар Uindon Positions	Hinimum Haximum	Phase & Fi Peak Phase * 4.23 6.42	RMS Phase • 1.60 2.15	Frequency Hz 17.42 30.37		PCS Traffic Channel 512 NS TX Level 0 Channel Mode Setun
<mark>Бнар Цінцин Positions</mark>		Phase & Fi Peak Phase • 4.23	RMS Phase * 1.60 2.15 1.89	Frequency Hz 17.42 30.37 23.15		PCS Traffic Channel 512 NS TX Level 0 Channel Mode Setun
<mark>Биар Иіндин</mark> Positions	Tinimum Haximum Average Pass/Fail	Phase & Fi Peak Phase * 4.23 6.42 5.37	RMS Phase • 1.60 2.15	Frequency Hz 17.42 30.37 23.15 Pass		PCS Traffic Channel 512 NS TX Level 0 Channel Mode Setun
Биар Шіндин Positions	linimum Naximum Average	Phase & Fi Peak Phase * 4.23 6.42 5.37	RHS Phase * 1.60 2.15 1.89 Pass	Frequency Hz 17.42 30.37 23.15 Pass		PCS Traffic Channel 512 MS TX Level 0 Channel Hode Setup
Suap Hindon Positions	Tinimum Haximum Average Pass/Fail	Phase & F Peak Phase * 4.23 6.42 5.37 Pass	Rt1S Phase * 1.60 2.15 1.89 Pass	Frequency Hz 17.42 30.37 23.15 Pass Si		PCS Traffic Channel 512 MS TX Level 0 Channel Hode Setup

		Measurement,	/Instrument S	creen	
Control		Tran	ismit Power		TCH Parms
Transmit Power Setup					Dunnlink Traffic Power
v	Bur	rst 1 Burst 2	Burst 3 Burst 4	Burst 5 Burst	
	BP 2	9.07			Traffic Band
	ECP 2	9.07			- PCS
				Si	Traffic Channel 661
		Phase & I	Frequency Err	or	
			-	1	IS TX Level
		Peak Phase •	RHS Phase •	Frequency Hz	
	Hinimum	4.24	1.67	18.77	
Suap Hindou Positions	Haximum	7.19	2.13	31.10	Channel Hode
Positions	Average	5.41	1.88	25.32	Setup _V
	Pass/Fail	Pass	Pass	Pass	
	50 /50			Si	Return
		Active Cell		Sys Type: GSN	
1 of 2		IntR	ef Offset R T		1 of 2

FCC ID : A3LSGHT379 Transmit Power 661CH

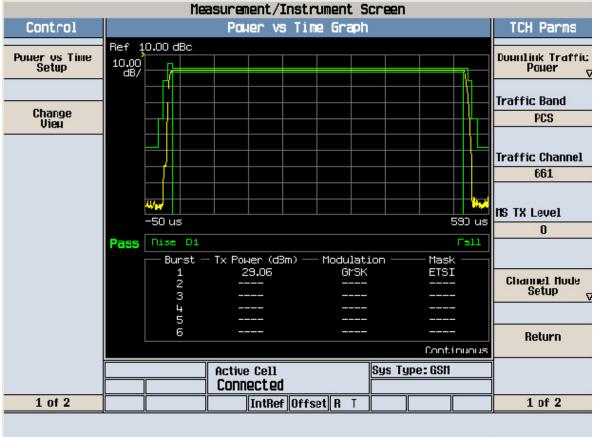
FCC ID : A3LSGHT379 Transmit Power 810CH

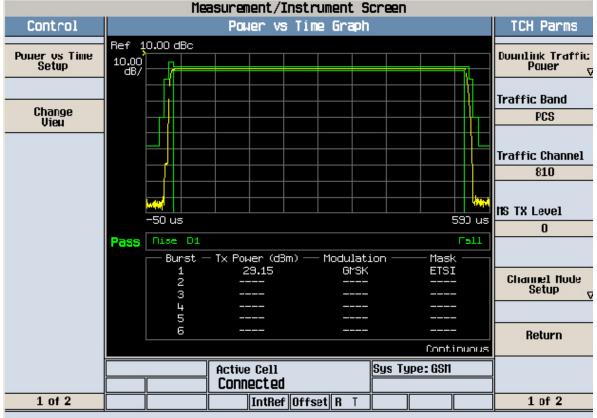
		Measurement					
Control		Trar	nsmit Po	wer			TCH Parms
Transmit Pouer Setup _▽							Duunlink Traffic Pouer
v	Bu	rst 1 Burst 2	Burst 3	Burst 4	Burst 5 Bu	rst 6	
	BP 2	9.16					Traffic Band
	ECP 2	9.16					PCS
	201						
							Traffic Channel
						Single	810
		Phase &	Frequen	cy Erro	or		
							NS TX Level
		Peak Phase •	RIIS P	hase °	Frequency	Hz	0
	Hinimum	3.98		1.63	23.4	2	
Suap Hindou Positions	Haximum	7.56		2.32	38.2	4	Channel Hode
Positions	Average	5.51		1.90	31.0	1	Setup _V
	Pass/Fail	Pass		Pass	Pas	S	
	50 /50		-			Single	Return
		Active Cel	-		Sys Type:GS	11	
1 of 2		IntR	ef Offset	t R T			1 of 2



FCC ID : A3LSGHT379 GMSK Power vs Time 512CH

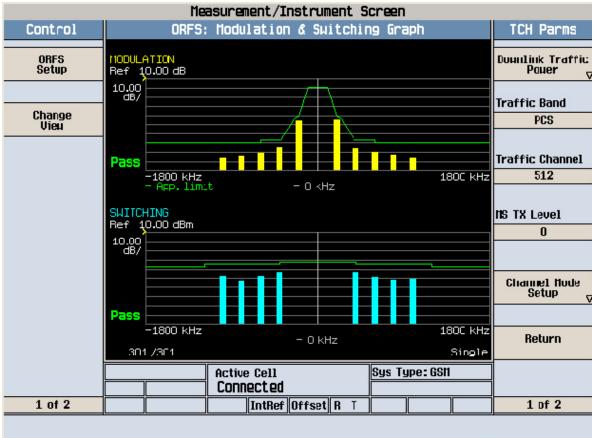
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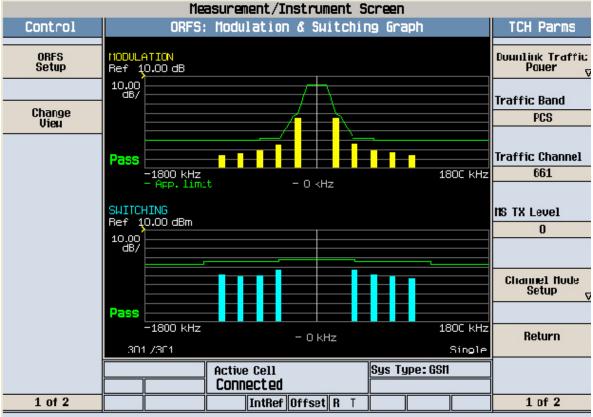




FCC ID : A3LSGHT379 GMSK Power vs Time 810CH

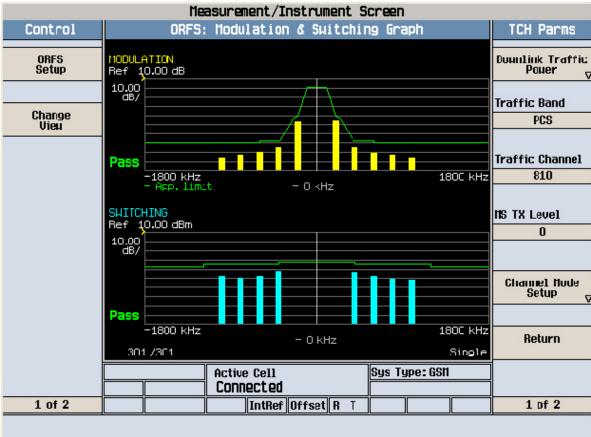
FCC ID : A3LSGHT379 Modulation & Switching 512CH





FCC ID : A3LSGHT379 Modulation & Switching 661CH

FCC ID : A3LSGHT379 Modulation & Switching 810CH



🔆 Ag	ilent									R T	Freq/Channe	el
FCC ID Ref 30		HT379	Cond S Atten		.512						Center Fre 1.25500000 GH	
#Peak Log											1.23300000 01	12
10	<u> </u>										Start Fre	ea
dB/					AC	Couple	d: unspe	cified	below	20 MH:	z 10.0000000 MH	
Offst 8.75 dB											Stop Fre	
DI											2.50000000 GH	Ηz
-13.0 dBm											CF Ste	
LgAv											- 249.000000 MH <u>Auto</u> Ma	Hz an
M1 S2 S3 FC	herround	, an	hand broke for	unional dispersion	nnanna	huhanta	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	whyne	ngundh	a storedard		et Hz
£ (f):											Cinnal Tues	
FTun											Signal Trac	ж Iff
Swp												
Center	1.255	GHz							Snan 2	 .49 GH:	7	
#Res B				ŧ۷	BW 1 M	Hz	Sweep		•	.40 ON2 01 pts)		
Copyri	ight 20	00-20	106 Ag	ilent T	echnol	ogies						٦

🔆 Ag	ilent									RТ	Freq/Channel
FCC ID	I:A3LSG	HT379	Cond S	pur Ch.	512				Mkr1	68 MHz	Contor From
Ref 30	dBm		Atten	40 dB					-33.	<u>52 dBm</u>	Center Freq 926.350000 MHz
#Peak											020.000000 1112
Log 10											Stort From
dB/					AC	Couple	l unso	ecified	l below	20 MHz	Start Freq 10.000000 MHz
Offst	<u> </u>					Coupie		oonnou			10.0000000 MHZ
8.75											Chan E
dB											Stop Freq 1.84270000 GHz
DI											1.042/0000 GHZ
-13.0											CF Step
dBm											183.270000 MHz
LgAv											<u>Auto</u> Man
M1 S2	1										
M1 S2 S3 FC	materies	all water and a second	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mangulation	Rhadrada		warden 16	wenner	wherearth	Annohous	Freq Offset
JJ FC											0.00000000 Hz
£ (f):											
FTun											Signal Track
Swp											On <u>Off</u>
Contor	926 M							۲	 		
	920 M W 1 MH			#U	BW 1 M	H7	Swaa			01 pts)	
								p 0.00	ma (0	or hrav	
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🔆 Ag	ilent								F	₹Т	Freq/Channel
FCC ID Ref 30 #Peak		HT379	Cond S Atten		512			Mkr1		'6 GHz 3 dBm	Center Freq 2.17885000 GHz
Log 10 dB/ Offst											Start Freq 1.85770000 GHz
8.75 dB DI											Stop Freq 2.50000000 GHz
-13.0 dBm LgAv									1		CF Step 64.2300000 MHz <u>Auto</u> Man
M1 S2 S3 FC	n Auronautor	walta	an a	without	persistent of the	mundaque	an and a second second	manyah	\$	Norm / Mary 1	FreqOffset 0.00000000 Hz
€(f): FTun Swp											Signal Track ^{On <u>Off</u>}
Center #Res B	2.178 W 1 MH:			#V	BW 1 M	Hz	Swee	Sp p 1.08		.3 MHz 1 pts)	
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🔆 Ag	jilent								R	T	Freq/Channel
FCC IE Ref 30 #Peak):A3LSGH)dBm	T379	Cond S Atten		512			Mk		77 GHz 0 dBm	Center Freq 11.2500000 GHz
Log 10 dB/ Offst											Start Freq 2.50000000 GHz
8.75 dB DI											Stop Freq 20.0000000 GHz
-13.0 dBm LgAv								1 \$			CF Step 1.75000000 GHz <u>Auto</u> Man
V1 S2 S3 FC		hatrogenation	with the four	-	harren an	crank where the	J				FreqOffset 0.00000000 Hz
£ (f): FTun Swp											Signal Track ^{On <u>Off</u>}
#Res B	· 11.25 G W 1 MHz				BW 1 M		· ·	S 43.76	ipan 17 ms (60		
rile V	peration	Stat	us, c:	VIEWA.	OIF TH	e save	a				

🔆 Ag	ilent										R	Т	Freq/Channel
FCC ID Ref 30		HT379	Cond S Atten		661								Center Freq 1.25500000 GHz
#Peak Log													1.23300000 0112
10													Start Freq
dB/					AC	Couple	d: unsp	ecifi	ied	below	20 M	1Hz	10.0000000 MHz
Offst 8.75 dB													Stop Freq
DI													2.50000000 GHz
-13.0 dBm													CF Step
LgAv													249.000000 MHz <u>Auto</u> Man
M1 S2 S3 FC	alle and all	~~~~	mbelinen	whene	eselen an	-theory of the	www.		wh		~~~	~~~	FreqOffset 0.00000000 Hz
£ (f):												_	Signal Track
FTun Swp													On <u>Off</u>
Center										pan 2.			
#Res B					BW 1 M			р4.	.16	ms (60	01 p	ts)	
File Op	peratio	in Stat	us, C:'	TEMP .	GIF fil	e save	ed						

🔆 Ag	jilent									RΤ	Freq/Channel
FCC IE Ref 30):A3LSG 1 dBm	HT379	Cond S Atten		661			1		355 MHz 07 dBm	Center Freq
#Peak			ntten	40 00					-55.		941.250000 MHz
Log 10 dB/ Offst					AC	Couple	d: unsp	ecified	below	20 MHz	Start Freq 10.0000000 MHz
8.75 dB DI											Stop Freq 1.87250000 GHz
-13.0 dBm LgAv		1									CF Step 186.250000 MHz <u>Auto</u> Man
M1 S2 S3 FC	Entransister and the second s second second seco	heper son	onto a man	- en an	n An Mishing	an destandar	yn Problem	umando	, en anter	W. A. A. Martine	FreqOffset 0.00000000 Hz
£ (f): FTun Swp											Signal Track On <u>Off</u>
	- 941 M 3W 1 MH			 #V	BW 1 M	Hz	Swee			363 GHz 01 pts)	
File 0	peratio	n Stat	us, C:'	\TEMP .	GIF fil	e save	ed				

🔆 Ag	ilent								R	?Т	Freq/Channel
Ref 30 #Peak	H3LSGH dBm	HT379	Cond S Atten		661			Mkr1		6 GHz 0 dBm	Center Freq 2.19375000 GHz
Log 10 dB/ Offst											Start Freq 1.88750000 GHz
8.75 dB DI											Stop Freq 2.50000000 GHz
-13.0 dBm LgAv								1			CF Step 61.2500000 MHz <u>Auto</u> Man
V1 S2 S3 FC	928.429.427 ¹⁴ 91-4	historia	w	philippine	kazurskost	kunner	and the second sec	0	purtur Maria	water	FreqOffset 0.00000000 Hz
€(f): FTun Swp											Signal Track On <u>Off</u>
	2.193 X W 1 MHz			#V	BW 1 M	Hz	Swee	Sp p 1.04		.5 MHz 1 pts)	
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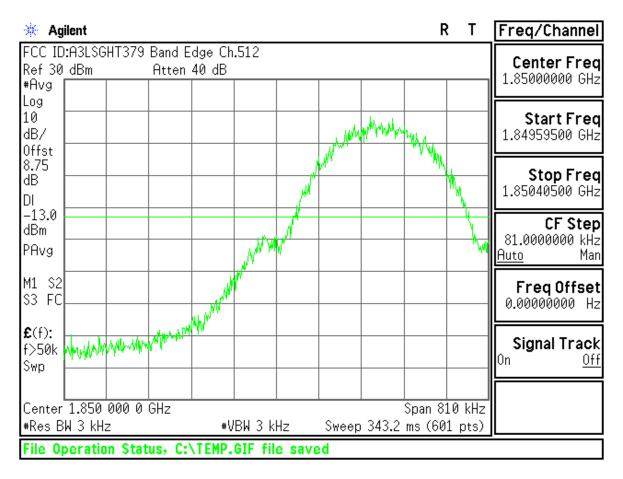
🔆 Agilent		RT	Freq/Channel
FCC ID:A3LSGHT375 Ref 30 dBm	9 Cond Spur Ch.661 Atten 40 dB	Mkr1 19.42 GHz -27.23 dBm	Center Freq 11.2500000 GHz
#Peak Log			11.2000000 0112
10 dB/			Start Freq 2.50000000 GHz
Offst 8.75 dB DI			Stop Freq 20.0000000 GHz
-13.0 dBm LgAv			CF Step 1.75000000 GHz <u>Auto</u> Man
V1 S2 V Winner S3 FC	mark the second of the second	April Anno 1994 - Paris Carlos	FreqOffset 0.00000000 Hz
£(f): FTun Swp			Signal Track ^{On <u>Off</u>}
Center 11.25 GHz #Res BW 1 MHz	#VBW 1 MHz	Span 17.5 GHz Sweep 43.76 ms (601 pts)	
File Operation Sta	atus, C:\TEMP.GIF file sa	aved	

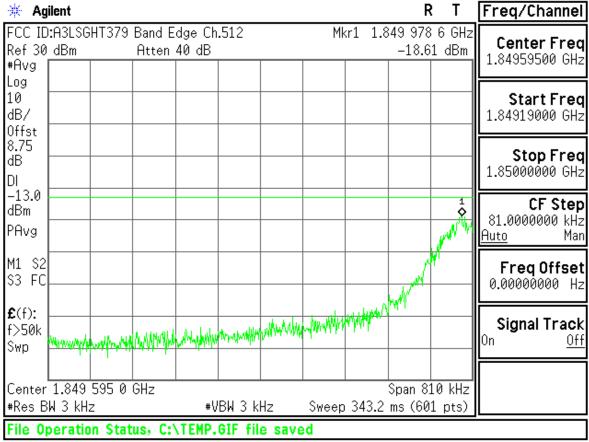
🔆 Ag	ilent									F	₹Т		Freq/Channel
FCC ID Ref 30 #Peak		HT379	Cond S Atten		810								Center Freq 1.25500000 GHz
Log 10 dB/ Offst					AC	Couple	d: unsp	ecifie	d I	below	20 MH	łz	Start Freq 10.0000000 MHz
8.75 dB DI													Stop Freq 2.50000000 GHz
-13.0 dBm LgAv													CF Step 249.000000 MHz <u>Auto</u> Man
M1 S2 S3 FC	ang tang tang tang tang tang tang tang t	top and the spectrum	fransfar y Lagin	NANA PROVINSI NA	donewije of we	nandrana	alanda kata	, k and	~~	nga kunanana	مسعديه	~	FreqOffset 0.00000000 Hz
€(f): FTun Swp													Signal Track ^{On <u>Off</u>}
Center #Res B	W 1 MH	z			BW 1 M			p 4.1	-	pan 2. ms (60			
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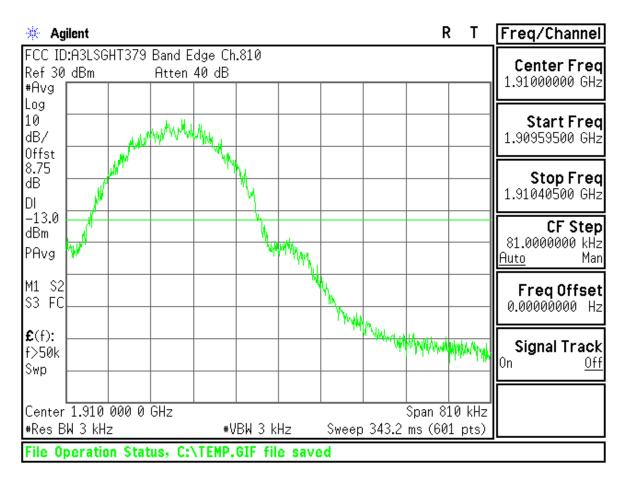
🔆 Aç	gilent								F	₹Т \$	Freq/Channel
FCC IE Ref 30 #Peak	D:A3LSG)dBm	HT379	Cond S Atten		810			Mk		77 GHz 32 dBm	Center Freq 956.150000 MHz
Log 10 dB/ Offst					AC	Couple	d: unsp	ecified	below i	20 MHz	Start Freq 10.0000000 MHz
8.75 dB DI											Stop Freq 1.90230000 GHz
-13.0 dBm LgAv											CF Step 189.230000 MHz <u>Auto</u> Man
V1 S2 S3 FC	 A second sec second second sec	there	1-11- ¹ -11-1-11	and the second	ne Marine	t that the last the same	2 minter more		why-whysholm		FreqOffset 0.00000000 Hz
€(f): FTun Swp											Signal Track ^{On <u>Off</u>}
#Res E	r 956 M 3W 1 MH	z			BW 1 M			Sp p 3.16		92 GHz 1 pts)	
File 0	peratio	n Stat	us, C:	VIEMP.	GTF 41	e save	a				

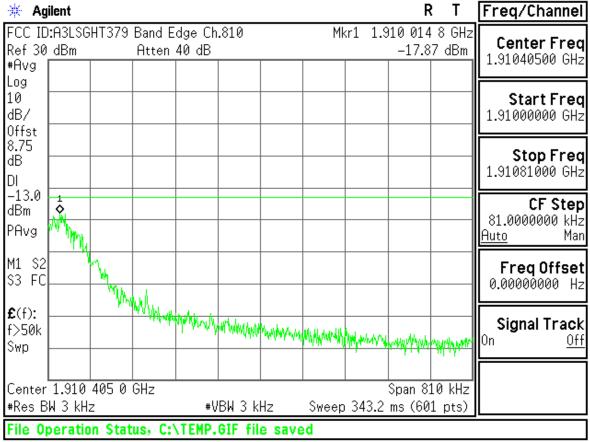
🔆 Agi	ilent								R	Т	Freq/Channel
FCC ID Ref 30 #Peak		HT379	Cond S Atten		810			Mkr1		1 GHz 4 dBm	Center Freq 2.20865000 GHz
Log 10 dB/											Start Freq 1.91730000 GHz
Offst 8.75 dB DI											Stop Freq 2.50000000 GHz
-13.0 dBm LgAv										1	CF Step 58.2700000 MHz <u>Auto</u> Man
33 FU	uk Menya-wa	hummund	duwww.und	mandad	en an		hellonako	maadadaa	mater productions		FreqOffset 0.00000000 Hz
£ (f): FTun Swp											Signal Track ^{On <u>Off</u>}
Center #Res B	W 1 MHz	2			BW 1 M			Sp veep 1	an 582. ms (60:		
File Op	peratio	n Stat	us, C:'	<u>TEMP.</u>	<u>GIF fil</u>	e save	d				

🔆 Ag	jilent								F	2 T	Freq/Channel
FCC ID):A3LSGH	T379	Cond S	pur Ch.	810			Mki	r1 15.	89 GHz	Combon From
Ref 30	∣dBm		Atten	40 dB					-26.6	8 dBm	Center Freq 11.2500000 GHz
#Peak											11.2300000 GHZ
Log											
10											Start Freq
dB/											2.50000000 GHz
0ffst 8.75											
dB	\vdash										Stop Freq
DI											20.0000000 GHz
-13.0											
dBm											CF Step
LgAv								1			1.75000000 GHz
							مسرف و		and also a	in March	<u>Auto</u> Man
V1 S2	and would be	when you	hyperskillely	or and the second	- Anna	No for him			- 4×14		Freq Offset
S3 FC											0.00000000 Hz
£ (f):											Cignal Track
FTun											Signal Track
Swp	\vdash										On <u>Off</u>
Center	11.25 0	ЭНг		1				S	nan 17	.5 GHz	
	3W 1 MHz			#V	BW 1 M	Hz	Sweep	43.76	•		
	peration		us. C·				· ·				
	201000	- Veale			VAL 11						









🔆 Agi	ilent								R	Т	Freq/Channel
FCC ID Ref 35		HT379	P.A.R C Atten						▲ Mkr1 –0.	0 Hz 05 dB	Center Freq 1.88000000 GHz
#Avg Log 10					1	R R				*	Start Freq
dB/ Offst 8.75											1.87750000 GHz Stop Freq
dB											1.88250000 GHz
#LgAv											CF Step 500.000000 kHz <u>Auto</u> Man
V1 M2 S3 FC											Freq Offset 0.00000000 Hz
£ (f): FTun Swp											Signal Track ^{On <u>Off</u>}
 Center #Res B			 z	#V	BW 3 M	Hz	Sr	veep 1	Span ms (601	5 MHz L pts)	
File Op	peratio	in Stat	tus, C:Y	TEMP.	GIF fil	e save	d				

EDGE850

Agilent			RT	Freq/Channel
Ch Freq 82 Occupied Bandwidth	4.2 MHz		Trig Free	Center Freq 824.200000 MHz
FCC ID:A3LSGHT379 OBW	Ch.128 EDGE			Start Freq 823.700000 MHz
Ref 27 dBm Atte #Peak Log 10	n 30 dB	W		Stop Freq 824.700000 MHz
dB/				CF Step 100.000000 kHz <u>Auto</u> Man
dB Center 824.200 MHz			Span 1 MHz	FreqOffset 0.00000000 Hz
*Res BW 3 kHz Occupied Bandwig 246	*VBW 3 kHz Jth 3869 kHz	#Sweep 1 Occ BW % Pwr x dB	s (601 pts) 99.00 % -26.00 dB	Signal Track ^{On <u>Off</u>}
240. Transmit Freq Error x dB Bandwidth	918.089 Hz 302.882 kHz			
File Operation Status, (C:\TEMP.GIF file sa	ived		
🔆 Agilent			RT	Freq/Channel
Ch Freq 83 Occupied Bandwidth	6.6 MHz		Trig Free	Center Freq 836.600000 MHz
FCC ID:A3LSGHT379 OBW	Ch.190 EDGE			Start Freq 836.100000 MHz
Ref 27 dBm Atte #Peak Log 10	n 30 dB			Stop Freq 837.100000 MHz
dB/	→ /	Ny E	914mn	CF Step 100.000000 kHz <u>Auto</u> Man
dB Center 836.600 MHz			Span 1 MHz	FreqOffset 0.00000000 Hz
I#RAC KW K VH7	#UPU 2 PUS	#Sweep 1	s (601 pts)	
+Res BW 3 kHz		Occ BW % Pwr x dB	99.00 % -26.00 dB	Signal Track ^{On <u>Off</u>}
Occupied Bandwid		Occ BW % Pwr	99.00 % -26.00 dB	

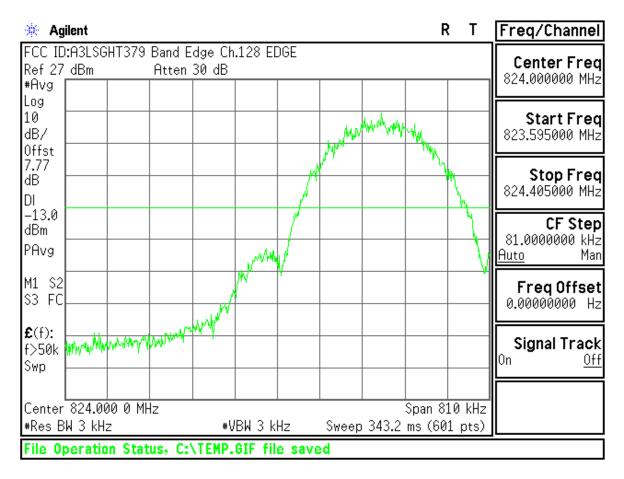
🔆 Agilent				RT	Freq/Channel
Ch F Occupied Bandw	•	z		Trig Free	Center Freq 848.800000 MHz
FCC ID:A3LSGHT Ref 27 dBm	[379 0BW Ch.251				Start Freq 848.300000 MHz
Her 27 dbm HPeak Log 10	Atten 30 c				Stop Freq 849.300000 MHz
dB/ Offst 7.77 dB			Ne Ne	M. M. Marken Market, w	CF Step 100.000000 kHz <u>Auto</u> Man
Center 848.800 #Res BW 3 kHz		#VBW 3 kHz		Span 1 MHz [^] s (601 pts)	FreqOffset 0.00000000 Hz
Occupied	Bandwidth 245.4534		Occ BW % Pwr x dB	99.00 % -26.00 dB	Signal Track ^{On <u>Off</u>}
Transmit Free × dB Bandwid	ith 311.2	.847 Hz 267 kHz			
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	UT270 Tronom	t Dowor 1990	U EDCE		
FCC ID : A3LSG			H EDGE strument Scree	n	
FCC ID : A3LSG		asurement/In:		n	PDTCH Parms
		asurement/In: EGPRS Tran	strument Scree		Dunnlink Traffic
Control EGPRS Transmit	Me	asurement/In: EGPRS Tran	s <mark>trument Scree</mark> smit Pouer		Dunnlink Traffic
Control EGPRS Transmit	Me EPSK Bur Mininum 25.24 dBm Average 25.87 dBm	EGPRS Tran EGPRS Tran st Power Maximum 26.66 dBm	strument Screen Ismit Pouer EPSK Est Carr Minimum	rier Power Maximum 25.98 dBm Std Dev 0.02 dB	Dumilink Traffic Power
Control EGPRS Transmit	Me EPSK Bur Mininum 25.24 _{dBm} Average	EGPRS Tran EGPRS Tran st Power Maximum 26.66 dBm Std Dev	strument Screen Ismit Power EPSK Est Carr Minimum 25.85 _{dBm} Average	rier Power Maximum 25.98 _{dBm} Std Dev	Dumilink Traffic Power
Control EGPRS Transmit	Me EPSK Bur Mininum 25.24 dBm Average 25.87 dBm	EGPRS Tran EGPRS Tran st Power Maximum 26.66 dBm Std Dev	strument Screen Ismit Power EPSK Est Carr Minimum 25.85 _{dBm} Average	rier Power Maximum 25.98 dBm Std Dev 0.02 dB	e Dumilink Traffic Power Traffic Band GS1850 Traffic Channel 128 IS TX Level
Control EGPRS Transmit	Me EPSK Bur Mininum 25.24 dBm Average 25.87 dBm	EGPRS Tran EGPRS Tran st Power Maximum 26.66 dBm Std Dev	strument Screen Ismit Power EPSK Est Carr Minimum 25.85 _{dBm} Average	rier Power Maximum 25.98 dBm Std Dev 0.02 dB	e Duunlink Traffic Power v Traffic Band GS1850 Traffic Channel 128 IS TX Level v fluttislot Config
Control EGPRS Transmit	Me EPSK Bur Mininum 25.24 dBm Average 25.87 dBm	EGPRS Tran EGPRS Tran st Power Maximum 26.66 dBm Std Dev	strument Screen Ismit Power EPSK Est Carr Minimum 25.85 _{dBm} Average	rier Power Maximum 25.98 dBm Std Dev 0.02 dB	e Dumilink Traffic Power v Traffic Band GSN850 Traffic Channel 128
Control EGPRS Transmit	Me EPSK Bur Mininum 25.24 dBm Average 25.87 dBm	EGPRS Tran EGPRS Tran st Power Maximum 26.66 dBm Std Dev	strument Scree smit Pouer EPSK Est Carr Minimum 25.85 dBm Average 25.93 dBm	rier Power Maximum 25.98 dBm Std Dev 0.02 dB Singl	e Duunlink Traffic Power v Traffic Band GS1850 Traffic Channel 128 IS TX Level v fultislot Config
Control EGPRS Transmit	Me EPSK Bur Mininum 25.24 dBm Average 25.87 dBm	EGPRS Tran EGPRS Tran st Power Maximum 26.66 dBm Std Dev	strument Scree smit Pouer EPSK Est Carr Minimum 25.85 dBm Average 25.93 dBm	rier Power Maximum 25.98 dBm Std Dev 0.02 dB	e Duunilink Traffic Power v Traffic Band GSN850 Traffic Channel 128 National STX Level v Hultislot Config 3 Doun, 2 Up
Control EGPRS Transmit	Me EPSK Bur Mininum 25.24 dBm Average 25.87 dBm	EGPRS Tran EGPRS Tran St Power Maximum 26.66 dBm Std Dev 0.25 dB	strument Scree smit Pouer EPSK Est Carr Minimum 25.85 dBm Average 25.93 dBm	rier Power Maximum 25.98 dBm Std Dev 0.02 dB Singl	e Dumiliuk Traffic Power v Traffic Band GS1850 Traffic Channel 128 IS TX Level v Hultislot Config 3 Down, 2 Up

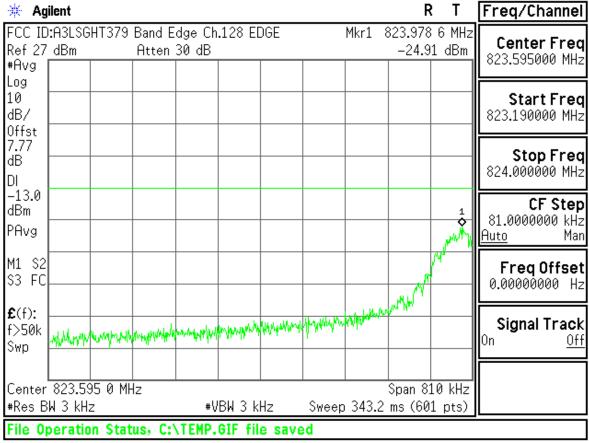
Measurement/Instrument Screen						
Control			PDTCH Parms			
EGPRS Transmit Poµer Setup _▽	EPSK Bur	Dounlink Traffic Pouer _V				
	Mininum 25.42 _{dBm}	Maximum 26.75 _{dBm}	Minimum 26.08 _{dBm}	Maximum 26.21 _{dBm}	Traffic Band GS11850	
	Average 26.10 _{dBm}	Std Dev 0.23 _{dB}	Average 26.17 _{dBm}	Std Dev 0.02 _{dB}	Traffic Channel	
	200 /200			Single	190	
					IIS TX Level 🗸	
					Nultislot Config	
					3 Doun, 2 Up	
					Return	
		Active Cell Transferrin		ype: EGPRS		
1 of 2		IntRef	Offset R T		1 of 2	

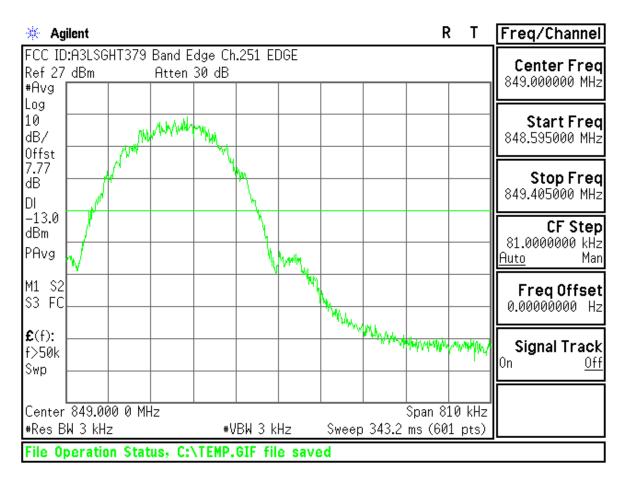
FCC ID : A3LSGHT379 Transmit Power 190CH EDGE

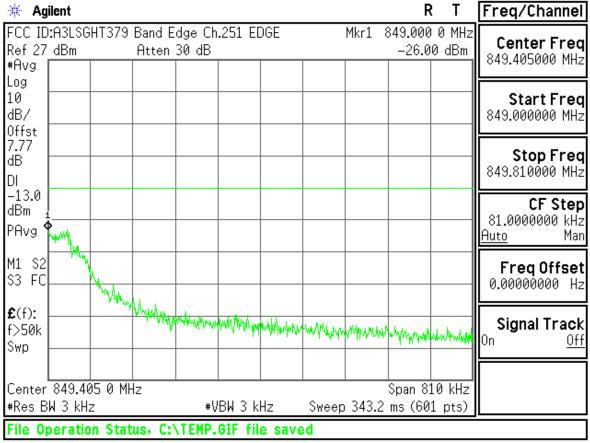
FCC ID:A3LSGHT379	Transmit Power	251CH EDGE
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Measurement/Instrument Screen						
Control			PDTCH Parms			
EGPRS Transmil Poµer Setup _♥	EPSK Bur	Dounlink Traffic Pouer _V				
	Mininum 25.45 _{dBm}	Maximum 26.92 _{dBm}	Minimum 26.19 _{dBm}	Maximum 26.31 _{dBm}	Traffic Band GS11850	
	Average 26.20 _{dBm}	Std Dev 0.25 _{dB}	Average 26.26 _{dBm}	Std Dev 0.02 _{dB}	Traffic Channel	
	200 /200			Single	251	
					HS TX Level v	
					3 Doun, 2 Up	
					Return	
		Active Cell Transferrir		Type: EGPRS		
1 of 2		IntRef 0)ffset R T		1 of 2	









EDGE1900

Agilent R T	Freq/Channel
Ch Freq 1.8502 GHz Trig Free Occupied Bandwidth	Center Freq 1.85020000 GHz
FCC ID:A3LSGHT379 OBW Ch.512 EDGE	Start Freq 1.84970000 GHz
Ref 26 dBm Atten 30 dB *Peak Log 10 + + + + + + + + + + + + + + + + + + +	Stop Freq 1.85070000 GHz
dB/ Offst 8.75	CF Step 100.000000 kHz <u>Auto</u> Man
dB Market Span 1 MHz^ Center 1.850 200 GHz Span 1 MHz^ #Res BW 3 kHz #VBW 3 kHz #Sweep 1 s (601 pts)	Freq Offset 0.00000000 Hz
Occupied Bandwidth Осс ВИ % Риг 99.00 % 243.7332 kHz × dB -26.00 dB	Signal Track ^{On <u>Off</u>}
Transmit Freq Error 647.526 Hz x dB Bandwidth 308.296 kHz	
File Operation Status, C:\TEMP.GIF file saved	
* Agilent R T	Freq/Channel
Agilent R T Ch Freq 1.88 GHz Occupied Bandwidth Image: Charge State	Freq/Channel Center Freq 1.88000000 GHz
Ch Freq 1.88 GHz Trig Free Occupied Bandwidth FCC ID:A3LSGHT379 OBW Ch.661 EDGE	Center Freq
Ch Freq 1.88 GHz Trig Occupied Bandwidth	Center Freq 1.88000000 GHz Start Freq
Ch Freq 1.88 GHz Trig Occupied Bandwidth	Center Freq 1.88000000 GHz Start Freq 1.87950000 GHz Stop Freq
Ch Freq 1.88 GHz Trig Occupied Bandwidth	Center Freq 1.88000000 GHz Start Freq 1.87950000 GHz Stop Freq 1.88050000 GHz CF Step 100.000000 kHz
Ch Freq 1.88 GHz Trig Free Occupied Bandwidth	Center Freq 1.88000000 GHz Start Freq 1.87950000 GHz Stop Freq 1.88050000 GHz CF Step 100.000000 kHz Auto Man Freq Offset
Ch Freq 1.88 GHz Trig Free Occupied Bandwidth	Center Freq 1.88000000 GHz Start Freq 1.87950000 GHz Stop Freq 1.88050000 GHz CF Step 100.000000 kHz Auto Freq Offset 0.0000000 Hz Signal Track

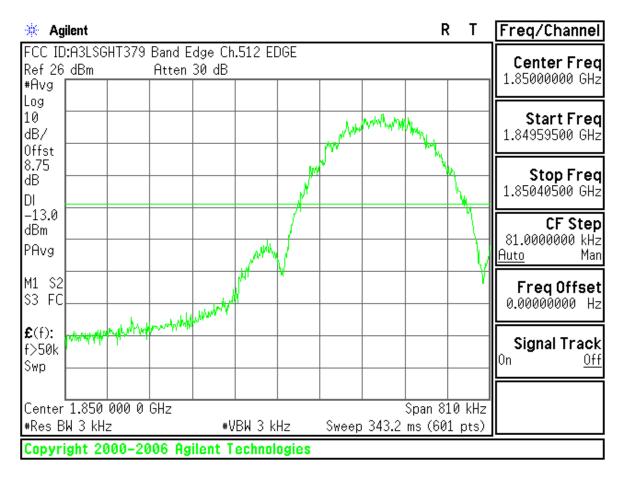
🔆 Agilent				RT	Freq/Channel
Ch F Occupied Bandw	-	GHz		Trig Free	Center Freq 1.90980000 GHz
	[379 0BW Ch.810				Start Freq 1.90930000 GHz
Ref 26 dBm #Peak Log 10	Atten 30 c	₿			Stop Freq 1.91030000 GHz
dB/ 0ffst 8.75			hy e	Ang Marine Marine and Marine and	CF Step 100.00000 kHz <u>Auto</u> Man
dB Center 1.909 80 #Res BW 3 kHz		#VBW 3 kHz		Span 1 MHz [^] s (601 pts)	FreqOffset 0.00000000 Hz
Occupied	Bandwidth 241.0533		Occ BW % Pwr x dB		Signal Track ^{On <u>Off</u>}
Transmit Free × dB Bandwid		655 Hz 196 kHz			
File Operation	Status, C:\TEM	IP.GIF file sav	ed		
ID LOLGALIMA					
ID: A3LSGHT3				חי	
ID:A3LSGHT3 Control			strument Scree	חי	PDTCH Parms
		asurement/Ins EGPRS Tran	strument Scree		Duunlink Traffic
Control EGPRS Transmit	116	asurement/Ins EGPRS Tran	strument Scree smit Pouer		Duunlink Traffic Pouer
Control EGPRS Transmit	Me EPSK Bur Mininum	EGPRS Tran EGPRS Tran st Power Maximum 26.88 _{dBm}	strument Scree smit Pouer EPSK Est Car Minimum	rier Ромег Maximum 26.29 _{dBm}	Duunlink Traffic Pouer Traffic Band PCS Traffic Channel
Control EGPRS Transmit	Me EPSK Bur Mininum 25.48 _{dBm} Average	EGPRS Tran EGPRS Tran st Power Maximum 26.88 _{dBm} Std Dev	strument Scree smit Pouer EPSK Est Car Minimum 25.19 _{dBm} Average	rier Power Maximum 26.29 _{dBm} Std Dev	Dumilink Traffic Power Traffic Band PCS Traffic Channel
Control EGPRS Transmit	Me EPSK Bur Mininum 25.48 dBm Average 25.18 dBm	EGPRS Tran EGPRS Tran st Power Maximum 26.88 _{dBm} Std Dev	strument Scree smit Pouer EPSK Est Car Minimum 25.19 _{dBm} Average	rier Power Maximum 26.29 _{dBm} Std Dev 0.02 _{dB}	E Comparison of the second sec
Control EGPRS Transmit	Me EPSK Bur Mininum 25.48 dBm Average 25.18 dBm	EGPRS Tran EGPRS Tran st Power Maximum 26.88 _{dBm} Std Dev	strument Scree smit Pouer EPSK Est Car Minimum 25.19 _{dBm} Average	rier Power Maximum 26.29 _{dBm} Std Dev 0.02 _{dB}	E Countlink Traffic Power Traffic Band FCS Traffic Channel 512 Its TX Level
Control EGPRS Transmit	Me EPSK Bur Mininum 25.48 dBm Average 25.18 dBm	EGPRS Tran EGPRS Tran st Power Maximum 26.88 _{dBm} Std Dev	strument Scree smit Pouer EPSK Est Car Minimum 25.19 _{dBm} Average	rier Power Maximum 26.29 _{dBm} Std Dev 0.02 _{dB}	Dumilink Traffic Power Traffic Band PCS Traffic Channel 512 Italitistot Config
Control EGPRS Transmit	Me EPSK Bur Mininum 25.48 dBm Average 25.18 dBm	EGPRS Tran EGPRS Tran st Power Maximum 26.88 _{dBm} Std Dev	strument Scree smit Pouer EPSK Est Car Minimum 25.19 _{dBm} Average	rier Power Maximum 26.29 _{dBm} Std Dev 0.02 _{dB}	Dumilink Traffic Power Traffic Band PCS Traffic Channel 512 Italistor Italistor Config
Control EGPRS Transmit	Me EPSK Bur Mininum 25.48 dBm Average 25.18 dBm	EGPRS Tran EGPRS Tran St Power Maximum 26.88 dBm Std Dev 0.22 dB	strument Scree smit Pouer EPSK Est Car Minimum 26.19 dBm Average 25.24 dBm	rier Power Maximum 26.29 _{dBm} Std Dev 0.02 _{dB}	E Contraction of the second se
Control EGPRS Transmit	Me EPSK Bur Mininum 25.48 dBm Average 25.18 dBm	EGPRS Tran St Power Maximum 26.88dBm Std Dev 0.22dB	strument Scree smit Pouer EPSK Est Car Minimum 26.19 dBm Average 25.24 dBm	тіет Роџет Maximum 26.29 dBm Std Dev 0.02 dB Singl	E Contraction of the second se

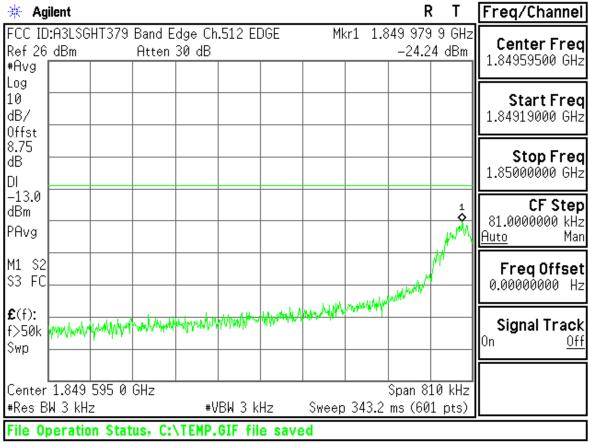
Measurement/Instrument Screen						
Control			PDTCH Parms			
EGPRS Transmit Poµer Setup _▽	EPSK Bur	Dounlink Traffic Pouer _V				
	Mininum 25.27 _{dBm}	Maximum 26.77 _{dBm}	Minimum 26.00 dBm	Maximum 26.09 _{dBm}	Traffic Band PCS	
	Average 25.99 _{dBm}	Std Dev 0.25 _{dB}	Average 26.04 _{dBm}	Std Dev 0.02 _{dB}	Traffic Channel	
	200 /200			Single	661	
					IIS TX Level 🗸	
					Nultislot Config	
					3 Doun, 2 Up	
					Return	
		Active Cell Transferrii		(ype: EGPRS		
1 of 2		IntRef	Offset R T		1 of 2	

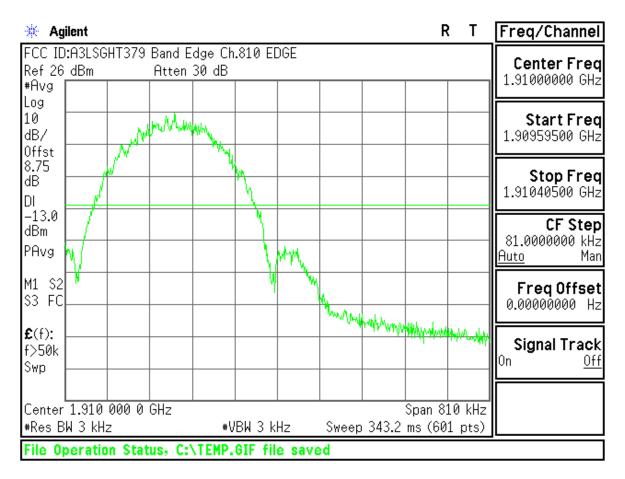
FCC ID : A3LSGHT379 Transmit Power 661CH EDGE

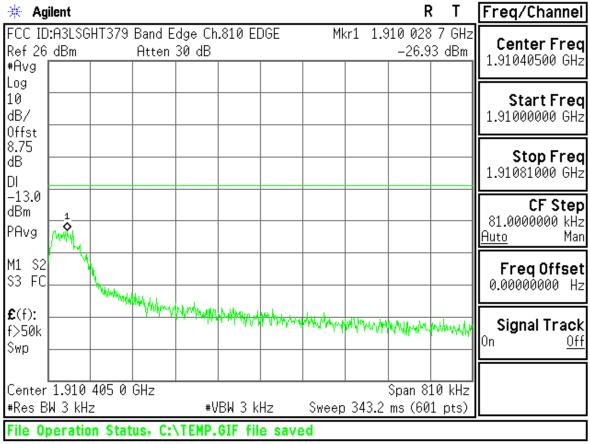
FCC ID:A3LSGHT379	Transmit Power	810CH EDGE
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Measurement/Instrument Screen						
Control		PDTCH Parms				
EGPRS Transmit Poµer Setup _▽	EPSK Bur	Dounlink Traffic Pouer _V				
	Mininum 25.03 _{dBm}	Maximum 26.47 _{dBm}	Minimum 25.75 _{dBm}	Maximum 25.84 _{dBm}	Traffic Band PCS	
	Average 25.73 _{dBm}	Std Dev 0.24 _{dB}	Average 25.79 _{dBm}	Std Dev 0.02 _{dB}	Traffic Channel	
	200 /200			Single	810	
					IIS TX	
					Level 🗸	
					Nultislot Config	
					3 Doun, 2 Up	
					Return	
		Active Cell Transferrin		Type: EGPRS		
1 of 2		IntRef ()ffset R T		1 of 2	









🔆 Agi	ilent								R	Т	Freq/Channel
FCC ID Ref 35		HT379		Ch.661 40 dB					▲ Mkr1 0.	. 0 Hz 26 dB	Center Freq 1.88000000 GHz
#Avg Log						R •					1.000000000 0HZ
10 dB/ Offst										_	Start Freq 1.87750000 GHz
8.75 dB											Stop Freq 1.88250000 GHz
PAvg											CF Step 500.000000 kHz <u>Auto</u> Man
M1 M2 S3 FC											FreqOffset 0.00000000 Hz
€(f): FTun Swp											Signal Track On <u>Off</u>
Center #Res B			lz	V	 3W 3 MI	Hz	Sv	veep <u>1</u>	Span ms (60:	5 MHz l pts)	
Copyri	ght 20	000-20	006 Ag	ilent T	echnol	ogies					