

TEST REPORT

Number 14-027074-01

According to

FCC CFR 47 Part 2, Part 22(H), Part 24(E)

For

| Applicant | Suntech International Ltd. | | |
|-------------------|--------------------------------------|--|--|
| Manufacturer | Suntech International Ltd. | | |
| Model or Type | ST940 | | |
| | GSM Mobile Equipment (asset tracker) | | |
| Final H/W Version | ST940 Rev05 | | |
| Final S/W Version | ST940 Rev001 | | |

| Issue To: | Date of Application | 2014-07-15 |
|---|---------------------|------------|
| Suntech International Ltd B-1506, Greatvally, 32, 9-Gil, Digital-Ro, | Date of Report | 2014-10-27 |
| Geumcheon-Gu, Seoul, KOREA | Date of Issue | 2014-10-27 |

This Test Report consists of 27 pages

Korea Testing Laboratory

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1. GENERAL INFORMATIONS

1.1. Applicant (Client)

| Name | Suntech International Ltd. | | |
|----------------------|---|--|--|
| Address | room 605, IT mirea Tower, 9 Gil 33, Digital-Ro Geumcheon-Gu, Seoul, Korea | | |
| Contact Person | Yohan Kim | | |
| Telephone No. | +82-2-2027-5656 | | |
| Facsimile No. | +82-2-2027-5654 | | |
| E-mail address | yhkim@suntechint.com | | |
| Manufacturer Name | Suntech International Ltd. | | |
| Manufacturer Address | room 605, IT mirea Tower, 9 Gil 33, Digital-Ro Geumcheon-Gu, Seoul, Korea | | |

1.2. Equipment (EUT)

| Type of equipment | Quad band GSM/GPRS Personal/Asset Tracker | |
|--------------------|---|--|
| Model Name | ST940 | |
| FCC ID | WA2ST940 | |
| FCC Classification | PCS Licensed Transmitter (PCB) | |
| Tx frequency Band | (824.2 ~ 848.8) MHz (GSM850) (1 850.2 ~ 1 909.8) MHz (GSM1900) | |
| Rx frequency Band | (869.2 ~ 893.8) MHz (GSM850) (1 930.2 ~ 1 989.8) MHz (GSM1900) | |
| Max. Power Rating | 31.55 dBm (GSM850) / 28.84 dBm (GSM1900) | |
| MODE | GSM / GPRS | |
| Antenna Type | Intenna | |
| Power class | Class 4 for GSM850, Class 1 for GSM1900 | |
| Class of GPRS | 12 | |
| Hardware Version | ST940 Rev05 | |
| Software Version | ST940 Rev001 | |

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1.3. Testing Laboratory

| Testing Place | Korea Testing Labortory (KTL) 1271-12, Sa-Dong Sangnok-Gu, Ansan-si Gyunggi-Do , Korea | |
|-------------------------------|---|--|
| FCC registration number | 408324 | |
| Industry Canada filing number | 6298 | |
| Test Engineer | Jea-Jun, Park | |
| Telephone number | +82 31 5000 148 | |
| Facsimile number | +82 31 5000 147 | |
| E-mail address | jjpark@ktl.re.kr | |
| Other Comments | - | |



1.4. Description of test mode

| Band | Mode | | Frequency (MHz) | Average Output Power (dBm) |
|---------|--------|-----------|-----------------|----------------------------|
| | | | 824.2 | 31.46 |
| | GSM | - | 836.6 | 31.55 |
| | | | 848.8 | 31.52 |
| | | | 824.2 | 31.58 |
| | GPRS - | 1 Tx Slot | 836.6 | 31.48 |
| | | | 848.8 | 31.51 |
| | | 2 Tx Slot | 824.2 | 30.96 |
| GSM 850 | | | 836.6 | 30.87 |
| | | | 848.8 | 30.90 |
| | | | 824.2 | 29.24 |
| | | 3 Tx Slot | 836.6 | 29.15 |
| | | | 848.8 | 29.18 |
| | | 4 Tx Slot | 824.2 | 28.14 |
| | | | 836.6 | 28.07 |
| | | | 848.8 | 28.06 |

^{*} We found out the test mode with the highest power level after we analyze all the data rates. So we chose worst case as a representative of GSM 850 band.

| Band | Mode | | Frequency (MHz) | Average Output Power (dBm) |
|----------|--------|-----------|-----------------|----------------------------|
| | | | 1850.2 | 28.54 |
| | GSM | - | 1880.0 | 28.59 |
| | | | 1909.8 | 28.76 |
| | | | 1850.2 | 28.57 |
| | | 1 Tx Slot | 1880.0 | 28.64 |
| | GPRS - | | 1909.8 | 28.84 |
| | | 2 Tx Slot | 1850.2 | 27.56 |
| GSM 1900 | | | 1880.0 | 27.64 |
| | | | 1909.8 | 27.81 |
| | | 3 Tx Slot | 1850.2 | 25.44 |
| | | | 1880.0 | 25.54 |
| | | | 1909.8 | 25.72 |
| | | 4 Tx Slot | 1850.2 | 24.35 |
| | | | 1880.0 | 24.47 |
| | | | 1909.8 | 24.66 |

^{*}We found out the test mode with the highest power level after we analyze all the data rates. So we chose worst case as a representative of GSM 1900 band.

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2. SUMMARY OF TEST RESULTS

Testing performed for : Suntech International Ltd.

Equipment Under Test: ST940

Receipt of Test Sample: 2014.07.16.

Test Start Date: 2014.07.30.

Test End Date: 2014.09.15.

The following table represents the list of measurements required under the FCC CFR47 Part 22H and 24E.

| FCC Rules | Test Requirements | Result |
|----------------------|-----------------------------|--------|
| 22.913(a), 24.232(c) | Conducted RF power output | Pass |
| 22.913(a), 24.232(c) | ERP & EIRP | Pass |
| 22.917, 24.238 | Radiated Spurious Emission | Pass |
| 2.1049 | Occupied bandwidth | Pass |
| 22.917, 24.238 | Conducted Spurious Emission | Pass |
| 22.355, 24.235 | Frequency Stability | Pass |

Note 1: Test results reported in this document relate only to the items tested

Note 2 : The required tests demonstrated compliance as per client declaration of test configuration, monitoring methodology and associated pass/fail criteria

Note 3: Test results apply only to the item(s) tested

* Modifications required for compliance

No modifications were implemented by KTL.

All results in this report pertain to the un-modified sample provided to KTL.

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3. Measurement & Results

3.1. Conducted Output Power

3.1.1. Test Procedure

A base station simulator (CMU200) was used to establish communication with the EUT. The base station simulator parameters were set to produce the maximum power from the EUT. Conducted Output Powers of EUT are reported below.

3.1.2. Test Results

| Mode | | Frequency (MHz) | Average Output Power (dBm) |
|---------|---|-----------------|----------------------------|
| | | 824.2 | 31.46 |
| GSM 850 | - | 836.6 | 31.55 |
| | | 848.8 | 31.52 |

| Mode | | Frequency (MHz) | Average Output Power (dBm) |
|----------|---|-----------------|----------------------------|
| | | 1850.2 | 28.57 |
| GSM 1900 | - | 1880.0 | 28.64 |
| | | 1909.8 | 28.84 |



3.2. Effective Radiated Power

3.2.1. Test Procedure

The radiated and spurious measurements were made Fully-anechoic chamber at a 3-meter test range. The EUT was placed on the rotating device at 1.5m and at a distance of 3-meters from the receive antenna. The rotating device which can rotate horizontal axis was mounted on the turn unit to facilitate rotation around a vertical axis. The measurement was made for each horizontal/vertical position combination with receive antenna horizontally polarized. This measurement was repeated with receive antenna vertically polarized. The substitution antenna will replace the EUT antenna it the same position and in vertical polarization. The frequency of the signal generator shall be set to the frequencies that were measured on the EUT. The signal generator, output level, shall be adjusted until an equal or a known related level to what was measured from the EUT is obtained in the spectrum analyzer. This level was recorded. For readings above 1 GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic antenna are taken into consideration.

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

3.2.2. Limit

FCC 22.913(b): The Effective Radiated Power (ERP) of mobile transmitters must not exceed 7 Watts.

FCC 24.232(b): The equivalent Isotropic Radiated Power (EIRP) must not exceed 2 Watts.

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3.2.3. Test Result

• GSM 850 Test Data

| Frequency(MHz) | Substitute Level [dBm] | Substitute Antenna Gain [dBd] | Polarization [H/V] | ERP [dBm] |
|----------------|---------------------------|-------------------------------------|-----------------------|--------------|
| 824.2 | 24.40 | 1.10 | Н | 25.50 |
| 836.6 | 25.08 | 1.32 | Н | 26.40 |
| 848.8 | 26.44 | 1.50 | Н | 27.94 |

· GSM 1900 Test Data

| Frequency(MHz) | Substitute Level [dBm] | Substitute Antenna Gain [dBd] | Polarization [H/V] | EIRP [dBm] |
|----------------|---------------------------|-------------------------------------|-----------------------|---------------|
| 1850.2 | 19.15 | 9.42 | Н | 28.57 |
| 1880.0 | 17.51 | 9.53 | Н | 27.04 |
| 1909.8 | 17.94 | 9.26 | Н | 27.20 |



3.3. Field Strength of Spurious Radiation

3.3.1. Test Results (GSM850 test data)

Operating Frequency: 824.2 MHz

Measured Output Power : 25.50 dBm = 0.355 WLimit : $43 + 10 \log_{10}(0.355 \text{ W}) = 38.50 \text{ dBc}$

| Frequency (MHz) | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBd] | E.I.R.P [dBm] | Polarization [H/V] | Result (dBc) |
|--------------------|--|-------------------------------------|------------------|-----------------------|-----------------|
| 1 648.1 | -47.86 | 8.51 | -39.35 | Н | 67.45 |
| 2 472.4 | -52.18 | 10.35 | -41.83 | Н | 69.93 |
| 3 296.3 | -54.64 | 11.77 | -42.87 | V | 70.97 |
| 4 120.5 | -49.59 | 12.51 | -37.08 | Н | 65.18 |
| 4 945.5 | -52.70 | 12.73 | -39.97 | V | 68.07 |
| 5 752.5 | -51.98 | 12.64 | -39.34 | Н | 67.44 |

Operating Frequency: 836.60 MHz

Measured Output Power : 26.40 dBm = 0.437 WLimit : $43 + 10 \log_{10}(0.437 \text{ W}) = 39.40 \text{ dBc}$

| Frequency (MHz) | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBd] | E.I.R.P [dBm] | Polarization [H/V] | Result (dBc) |
|--------------------|--|-------------------------------------|------------------|-----------------------|-----------------|
| 1 672.9 | -56.33 | 8.53 | -47.80 | V | 74.39 |
| 2 509.9 | -55.77 | 10.37 | -45.40 | Н | 71.99 |
| 3 345.8 | 55.71 | 11.79 | -43.92 | Н | 70.51 |
| 4 182.8 | 52.26 | 12.54 | -39.72 | Н | 66.31 |
| 5 019.0 | 53.13 | 12.76 | -40.37 | Н | 66.96 |
| 5 856.0 | 52.74 | 12.59 | -40.15 | Н | 66.74 |

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Operating Frequency: 848.80 MHz

Measured Output Power : 27.94 dBm = 0.622 WLimit : $43 + 10 \log_{10}(0.622 \text{ W}) = 40.93 \text{ dBc}$

| Frequency (MHz) | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBd] | E.I.R.P [dBm] | Polarization [H/V] | Result (dBc) |
|--------------------|--|-------------------------------------|------------------|-----------------------|-----------------|
| 1 697.3 | -53.98 | 8.99 | -44.99 | Н | 69.96 |
| 2 547.0 | -54.99 | 10.39 | -44.60 | V | 69.57 |
| 3 395.3 | -56.00 | 11.89 | -44.11 | Н | 69.08 |
| 4 243.5 | -49.51 | 12.53 | -36.98 | Н | 61.95 |
| 5 941.5 | -51.66 | 12.59 | -39.07 | V | 64.04 |

3.3.2. Test Results (GSM1900 test data)

Operating Frequency: 1850.2 MHz

Measured Output Power : 28.57 dBm = 0.719 WLimit : $43 + 10 \log_{10}(0.719 \text{ W}) = 41.56 \text{ dBc}$

| Frequency (MHz) | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBd] | E.I.R.P [dBm] | Polarization [H/V] | Result (dBc) |
|--------------------|--|-------------------------------------|------------------|-----------------------|-----------------|
| 3 700.5 | -49.45 | 12.31 | -37.14 | V | 68.67 |
| 5 550.8 | -48.39 | 12.89 | -35.50 | Н | 67.03 |
| 7 400.6 | -49.37 | 10.83 | -38.54 | Н | 70.07 |
| 9 250.1 | -39.22 | 12.01 | -27.21 | V | 58.74 |
| 11 101.3 | -46.13 | 10.62 | -35.51 | Н | 67.04 |

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Operating Frequency: 1880.0 MHz

Measured Output Power : 27.04 dBm = 0.506 WLimit : 43 + $10 \log_{10}(0.506 \text{ W}) = 40.04 \text{ dBc}$

| Frequency (MHz) | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBd] | E.I.R.P [dBm] | Polarization [H/V] | Result (dBc) |
|--------------------|--|-------------------------------------|---------------|-----------------------|-----------------|
| 3 759.8 | -49.75 | 12.29 | -37.46 | V | 68.24 |
| 5 640.0 | -47.62 | 12.83 | -34.79 | V | 65.57 |
| 7 520.4 | -49.46 | 10.81 | -38.65 | Н | 69.43 |
| 9 400.3 | -42.55 | 11.78 | -30.77 | Н | 61.55 |
| 11 280.2 | -45.99 | 10.87 | -35.12 | Н | 65.90 |

Operating Frequency: 1909.8 MHz

Measured Output Power : 27.20 dBm = 0.525 WLimit : $43 + 10 \log_{10}(0.525 \text{ W}) = 40.20 \text{ dBc}$

| Frequency (MHz) | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBd] | E.I.R.P [dBm] | Polarization [H/V] | Result (dBc) |
|--------------------|--|-------------------------------------|---------------|-----------------------|-----------------|
| 3 819.8 | -48.03 | 12.38 | -35.65 | Н | 66.41 |
| 5 236.5 | -52.30 | 12.80 | -39.50 | Н | 70.26 |
| 5 730.0 | -50.49 | 12.76 | -37.73 | Н | 68.49 |
| 7 638.6 | -45.86 | 10.89 | -34.97 | Н | 65.73 |
| 9 548.8 | -42.82 | 11.81 | -31.01 | V | 61.77 |
| 11 459.1 | -47.05 | 11.46 | - 35.59 | Н | 66.35 |

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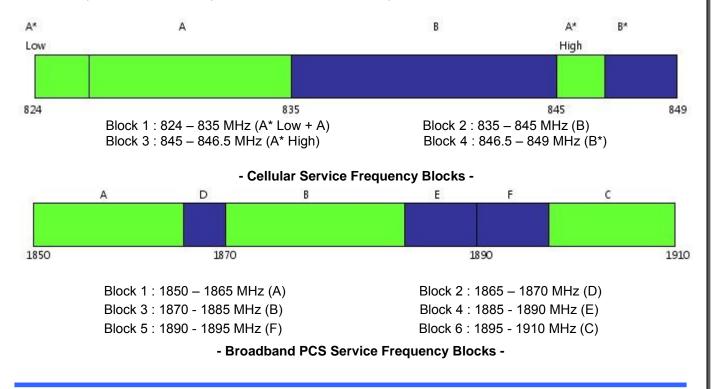
3.4. Occupied Bandwidth

3.4.1. Test Procedure

The EUT's output RF connector was connected with a short cable to spectrum analyzer. The EUT was setup to maximum output power. 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 26 dB below the transmitter power. RBW was set to about 1% of emission BW, VBW is set to 3 times.

3.4.2. Limit

- (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 1 MHz 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 license'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.

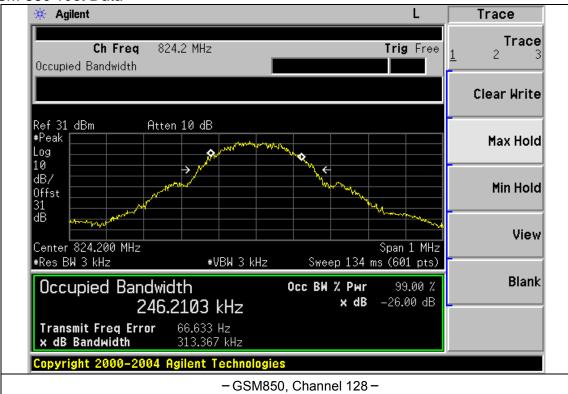


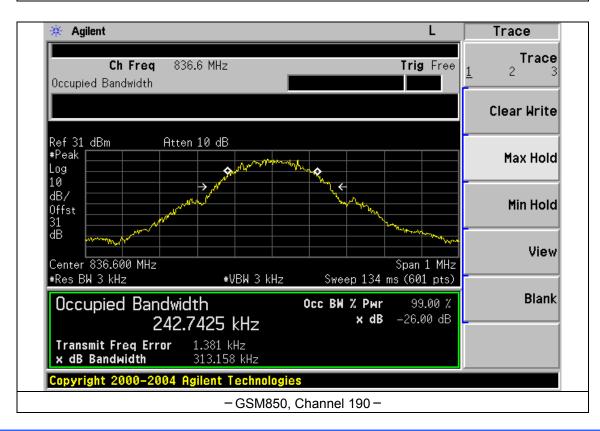
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3.4.3. Test Results

GSM 850 Test Data

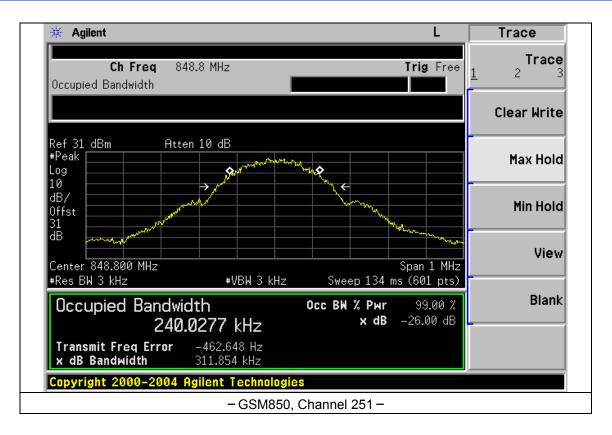




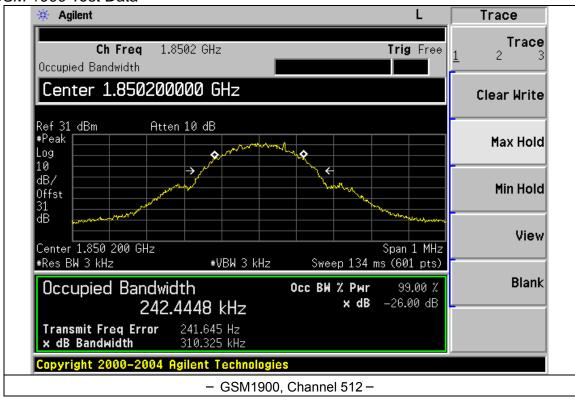
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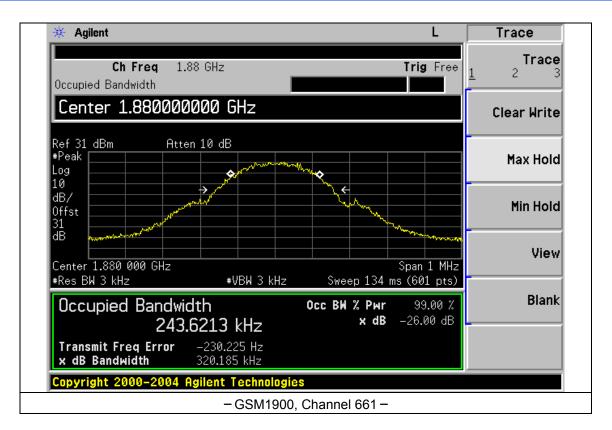


GSM 1900 Test Data



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3.5. Conducted Spurious Emission

3.5.1. Test Procedure

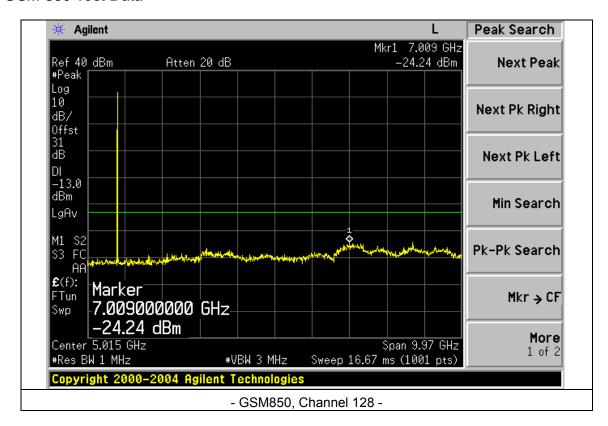
The EUT's output RF connector was connected with a short cable to spectrum analyzer. The EUT was setup to maximum output power. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. Compliance with the out-of-band emissions requirement is based on test being performed with an analyzer resolution bandwidth of 1 MHz. However in the 1 MHz band immediately outside and adjacent to the frequency block a resolution bandwidth of at least 1% of the fundamental emissions bandwidth may be employed. A display line was placed at -13 dBm to show compliance.

3.5.2. Limit

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. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm.

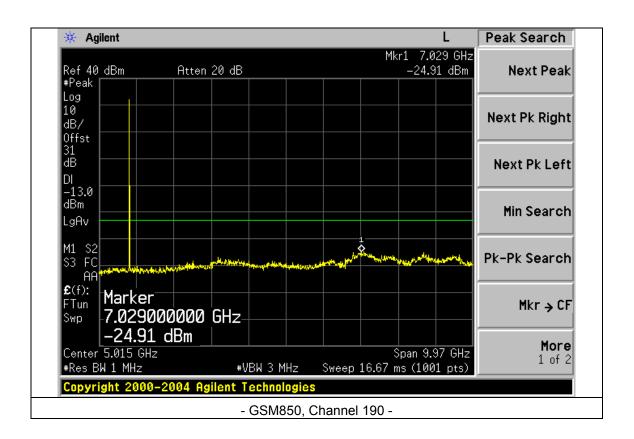
3.5.3. Test Results

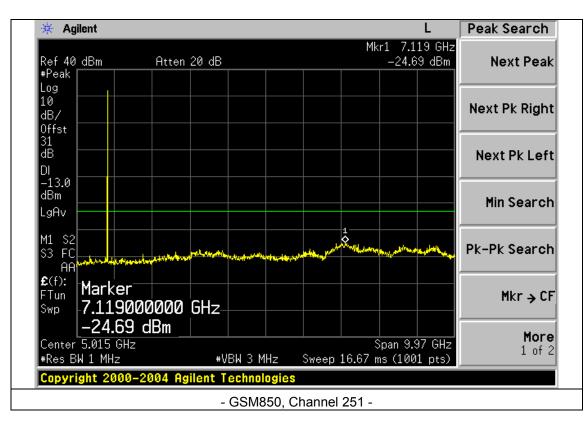
GSM 850 Test Data



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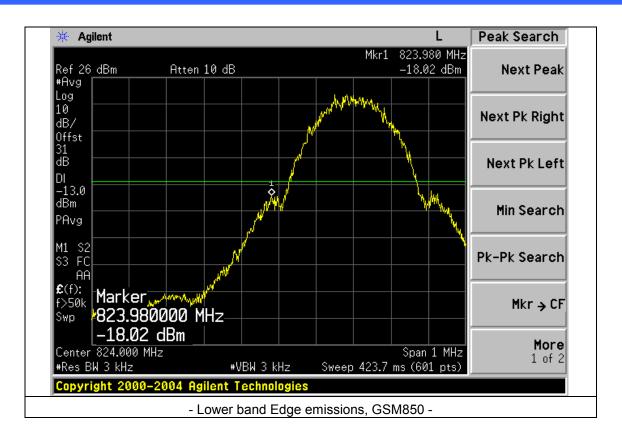


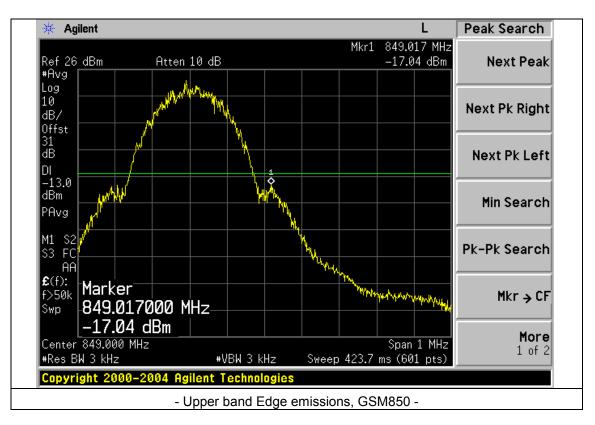




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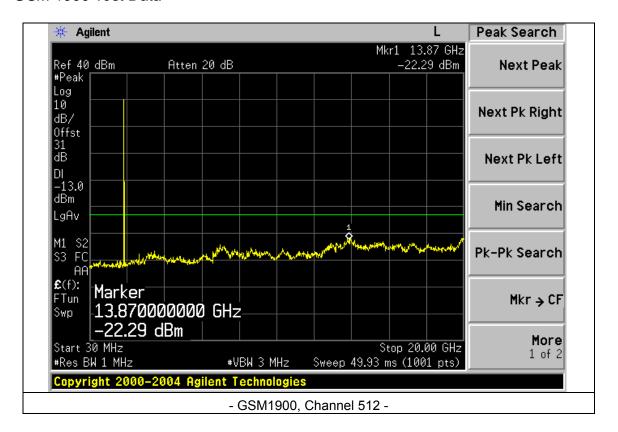


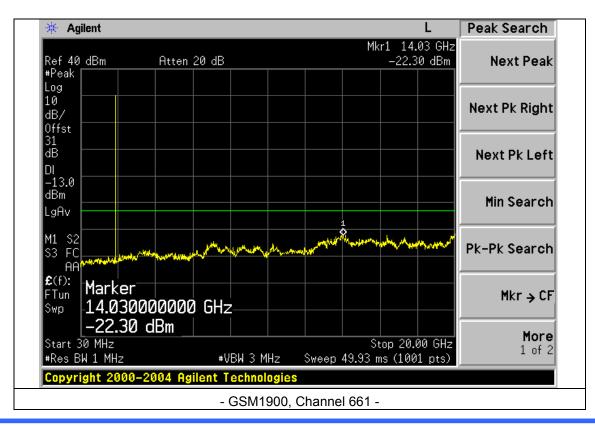


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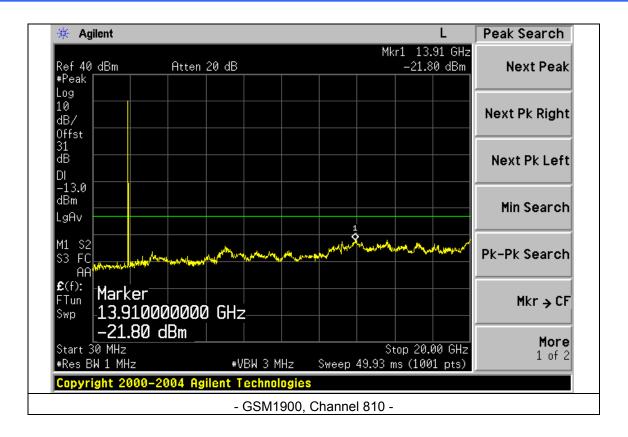
GSM 1900 Test Data

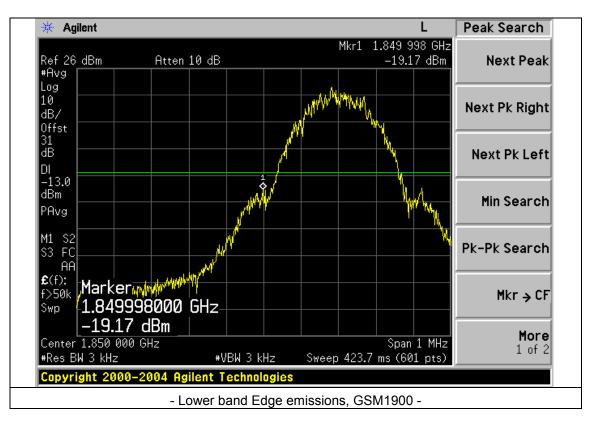




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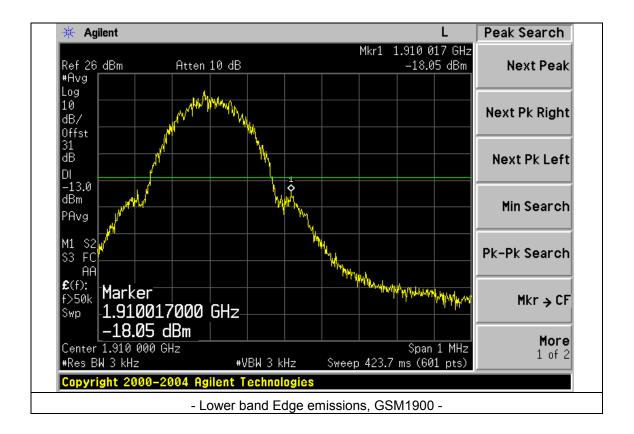






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3.6. Frequency Stability / Temperature Variation

3.6.1. Test Procedure

The equipment under test is placed in an environmental chamber. Frequency measurements are made at the extremes of the temperature range -30° C to +50° C and at intervals of 10° C with the primary supply voltage set to the nominal battery operating voltage. A period of time sufficient to stabilize all components of the equipment is allowed at each frequency measurement. The maximum variation of frequency is measured. The test was done at middle channel.

3.6.2. Limit

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 \pm 0.00025 (\pm 2.5ppm) of the center frequency.

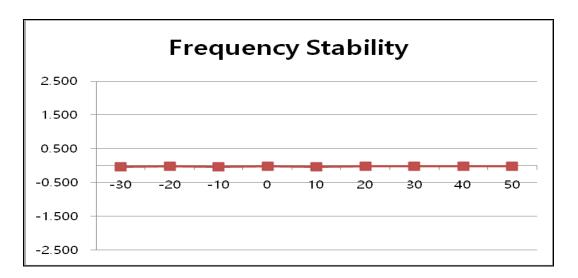
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3.6.3. Test Results

GSM 850 Test Data

| Voltage (%) | Power (VDC) | Temperature(°C) | Frequency Error (Hz) | Frequency Error (ppm) |
|-------------------|----------------|-----------------|----------------------------|-----------------------------|
| 100 % | | - 30 | -24 | -0.029 |
| 100 % | | - 20 | -19 | -0.023 |
| 100 % | | - 10 | -28 | -0.033 |
| 100 % | | 0 | -21 | -0.025 |
| 100 % | +3.8 | + 10 | -24 | -0.029 |
| 100 % | | + 20 | -17 | -0.020 |
| 100 % | | + 30 | -22 | -0.026 |
| 100 % | | + 40 | -21 | -0.025 |
| 100 % | | + 50 | -14 | -0.017 |
| Battery End Point | +3.5 | + 20 | -13 | -0.016 |
| 115 % | +4.37 | + 20 | 20 | 0.024 |

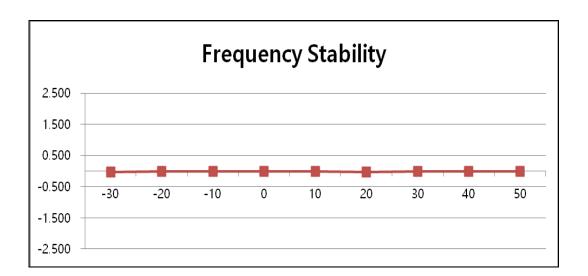


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· GSM 1900 Test Data

| Voltage(%) | Power (VDC) | Temperature(°C) | Frequency Error (Hz) | Frequency Error (ppm) |
|-------------------|----------------|-----------------|----------------------------|-----------------------------|
| 100 % | | - 30 | -41 | -0.022 |
| 100 % | | - 20 | -32 | -0.017 |
| 100 % | | - 10 | -36 | -0.019 |
| 100 % | | 0 | -33 | -0.018 |
| 100 % | +3.8 | + 10 | -39 | -0.021 |
| 100 % | | + 20 | -43 | -0.023 |
| 100 % | | + 30 | -27 | -0.014 |
| 100 % | | + 40 | -31 | -0.016 |
| 100 % | | + 50 | -27 | -0.014 |
| Battery End Point | +3.5 | + 20 | -40 | -0.021 |
| 115 % | +4.37 | + 20 | -42 | -0.022 |



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4. TEST EQUIPMENTS

| No. | Equipment | Manufacturer | Model | S/N | Calibration Due date |
|-----|--|--------------------|----------|------------|-------------------------|
| 1 | Spectrum Analyzer | Agilent | E4407B | US41443316 | 03-11-2015 |
| 2 | Synthesized Sweeper | HP | 83620A | 3250A01653 | 03-03-2015 |
| 3 | Digital RF Signal Generator | Agilent | E4438C | US41460859 | 02-18-2015 |
| 4 | Signal Generator | R&S | SMIQ O3 | DE22348 | 02-14-2015 |
| 5 | PSA Series Spectrum Analyzer | Agilent | E4448A | US44300484 | 02-19-2015 |
| 6 | DC Power Supply | Agilent | E4356A | MY41000296 | 02-11-2015 |
| 7 | DC Power Supply | Agilent | E3645A | MY40000851 | 02-11-2015 |
| 8 | AC Power Supply | Agilent | 6811B | MY41000446 | 02-07-2015 |
| 9 | Oscilloscope | Agilent | DSO6054A | MY44001104 | 01-22-2015 |
| 10 | Directional Coupler | Agilent | 87300C | MY44300126 | 03-04-2015 |
| 11 | Directional Coupler | Agilent | 773D | MY28390213 | 03-04-2015 |
| 12 | VHF Attenuator | HP | 355D | 2522A45959 | 03-04-2015 |
| 13 | Coaxial Attenuator | Weinschel | 56-20 | N8527 | 03-04-2015 |
| 14 | Coaxial Attenuator | Agilent | 8491B | 50109 | 03-04-2015 |
| 15 | Power Divider | HP | 11636A | 09084 | 03-07-2015 |
| 16 | Power Spliter | HP | 11667A | 21063 | 03-04-2015 |
| 17 | Temp/Humidity Chamber | ESPEC | SH-641 | 92007482 | 01-14-2015 |
| 18 | Function/Arbitrary Waveform Generator | Agilent | 33250A | MY40015758 | 04-24-2015 |
| 19 | EMI Receiver | R&S | ESIB26 | 100280 | 03-12-2015 |
| 20 | Pre-Amplifier | HP | 83017A | MY39500982 | 02-19-2015 |
| 21 | Pre-Amplifier | SONA INSTRUMENT | 310 | 284609 | 01-08-2015 |
| 22 | Biconi-Log Antenna | Schwarzbeck | VULB9168 | 9168-181 | 05-14-2015 |
| 24 | Double Ridge Wave Guide | ETS-Lindgren | 3115 | 9012-3595 | 06-12-2016 |
| 25 | Universal Radio Communication Tester | R&S | CMU200 | 110019 | 02-07-2015 |

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