



PCTEST Engineering Laboratory, Inc.

6660-B Dobbin Road · Columbia, MD 21045 · U.S.A.

TEL (410) 290-6652 · FAX (410) 290-6654

<http://www.pctestlab.com>



CERTIFICATE OF COMPLIANCE FCC Part 24 & 22 Certification

SANYO ELECTRIC Co., Ltd.
c/o Sanyo Sales & Supply (USA) Corp.
900 North Arlington Heights Road, Suite 300
Itasca, IL 60143-2844

Dates of Tests: January 23-26, 2006
Test Report S/N: 0601200031-R1
Test Site: PCTEST Lab, Columbia MD

FCC ID

AEZSCP-31H

APPLICANT

SANYO ELECTRIC CO., LTD.

Classification:	Licensed Portable Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§24(E), §22(H); §2
EUT Type:	Tri-Mode Dual-Band Analog/ PCS Phone (AMPS/CDMA)
Model:	SCP-3100
Tx Frequency:	824.04 – 848.97 MHz (AMPS) / 824.70 – 848.31 MHz (CDMA) 1851.25 – 1908.75 MHz (PCS CDMA)
Rx Frequency:	869.04 – 893.97 MHz (AMPS) / 869.70 – 893.31 MHz (CDMA) 1931.25 – 1988.75 MHz (PCS CDMA)
Max. RF Output Power:	0.455 W ERP AMPS (26.585 dBm) / 24.5 dBm Conducted 0.372 W ERP CDMA (25.703 dBm) / 23.7 dBm Conducted 0.515 W EIRP PCS CDMA (27.121 dBm) / 23.5 dBm Conducted
Max. SAR Measurement:	1.400 W/kg AMPS Head SAR; 0.997 W/kg AMPS Body SAR; 1.280 W/kg CDMA Head SAR; 0.704 W/kg CDMA Body SAR; 0.777 W/kg PCS CDMA Head SAR; 1.140 W/kg PCS CDMA Body SAR; 0.082 W/kg PTT Flip Open; 0.208 W/kg PTT Flip Closed
Emission Designator(s):	1M25F9W (CDMA)
Test Device Serial No.	Identical Prototype [S/N: 24710025542]

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Grant Conditions: Power output listed is ERP for Part 22 and EIRP for Part 24. SAR compliance for body-worn operating configuration is based on a separation distance of 1.9 cm between the back of the unit and the body of the user. SAR compliance for Push-to-Talk PTT operating configuration is based on a separation distance of 2.5 cm between the front of the unit and the face of the user. End-users must be informed of the body-worn operating requirements for satisfying RF exposure compliance. Belt clips or holsters may not contain metallic components.

PCTEST certifies that no party to this application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.

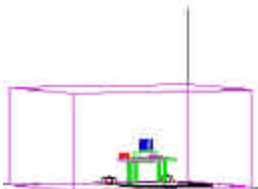

Alfred Cirvithian
Vice President Engineering



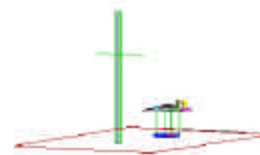
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MEASUREMENT REPORT



1.1 Scope

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

§2.1033 General Information

Applicant Name: SANYO ELECTRIC Co., Ltd.
Address: c/o Sanyo Sales & Supply (USA) Corp.
900 North Arlington Heights Road, Suite 300
Itasca, IL 60143-2844

- FCC ID: **AEZSCP-31H**
- Quantity: Quantity production is planned
- Emission Designators: 40K0F8W / 40K0F1D (AMPS), 1M25F9W (CDMA)
- Tx Freq. Range: 824.04 – 848.97 MHz (AMPS)
824.70 – 848.31 MHz (CDMA)
1851.25 – 1908.75 MHz (PCS CDMA)
- Rx Freq. Range: 869.04 – 893.97 MHz (AMPS)
869.70 – 893.31 MHz (CDMA)
1931.25 – 1988.75 MHz (PCS CDMA)
- Max. Power Rating: 0.455 W ERP AMPS (26.585 dBm) / 0.372 W ERP CDMA (25.703 dBm)
0.515 W EIRP PCS CDMA (27.121 dBm)
- FCC Classification(s): Licensed Portable Tx Held to Ear (PCE)
- Equipment (EUT) Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/ CDMA)
- Modulation(s): CDMA
- Frequency Tolerance: $\pm 0.00025\%$ (2.5 ppm)
- FCC Rule Part(s): § 24(E), §22(H)
- Dates of Tests: January 23-26, 2006
- Place of Tests: PCTEST Lab, Columbia, MD U.S.A.
- Test Report S/N: 0601200031-R1

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2.1 INTRODUCTION

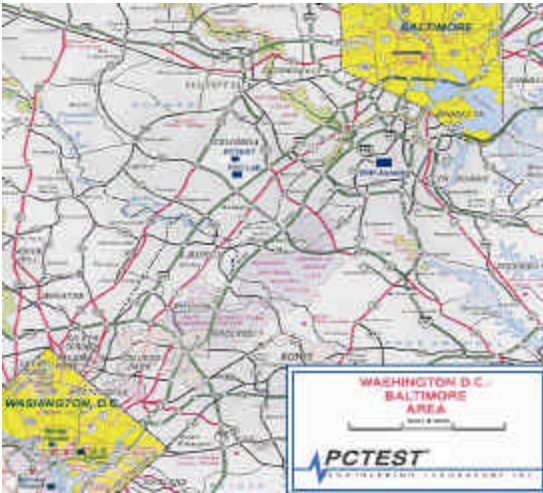


Figure 1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area.

These measurement tests were conducted at **PCTEST Engineering Laboratory, Inc.** facility in New Concept Business Park, Guilford Industrial Park, Columbia, Maryland. The site address is 6660-B Dobbin Road, Columbia, MD 21045. The test site is one of the highest points in the Columbia area with an elevation of 390 feet above mean sea level. The site coordinates are 39° 11'15" N latitude and 76° 49'38" W longitude. The facility is 1.5 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. There are no FM or TV transmitters within 15 miles of the site. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4 on October 19, 1992.

Measurement Procedure

The radiated and spurious measurements were made outdoors at a 3-meter test range (see Figure2). The equipment under test is placed on a wooden 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.

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 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 antenna are taken into consideration.

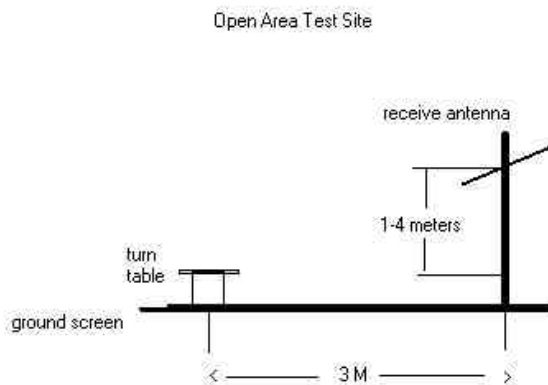


Figure 2. Diagram of 3-meter outdoor test range

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3.1 INSERTS

Function of Active Devices (Confidential)

The Function of active devices are shown in Attachment K.

Block & Schematic Diagrams (Confidential)

The block diagrams are shown in Attachment I, and the schematic diagrams are shown in Attachment J.

Operating Instructions

The instruction manual is shown in Attachment M.

Parts List & Tune-Up Procedure (Confidential)



The parts list & tune-up procedure is shown in Attachment L.

Description of Freq. Stabilization Circuit (Confidential)

The description of frequency stabilization circuit is shown in Attachment K.

Description for Suppression of Spurious Radiation, for Limiting Modulation, and Harmonic Suppresion Circuits (Confidential)

The description of suppression stabilization circuits is shown in Attachment K.

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4.1 DESCRIPTION OF TESTS

4.2 Transmitter Audio Frequency Response

The frequency response of the audio modulating circuit over the frequency range 100 – 5000 Hz is measured. The audio signal generator is connected to the audio input circuit/microphone of the EUT. The audio signal input is adjusted to obtain 50% modulation at 1kHz and this point is taken as the 0dB reference. With the input held constant and below the limit at all frequencies, the audio signal generator is varied from 100 to 50 kHz.

4.3 Audio Low Pass Filter Frequency Response

The response in dB relative to 1kHz is measured using the HP8901A Modulation Analyzer. For the frequency response of the audio low-pass filter, the audio input is connected at the input to the modulation limiter and the modulated stage. The audio output is connected at the output of the modulated stage. The corresponding plots are shown herein.

4.4 Modulation Limiting

The audio signal generator is connected to the audio input circuit/microphone of the EUT. The modulation response is measured for each of the three modulating frequencies (300Hz, 1000 Hz, and 3000Hz), and the input voltage is varied from 30% modulation (± 3.6 kHz deviation) to at least 20dB higher than the saturation point. Measurements of modulation and the plots are attached herein. Measurements were performed for ST, SAT, and wide-band data modulations. The corresponding results are shown herein.

Note: ST, SAT, & Wide-Band data were internally generated by the EUT.

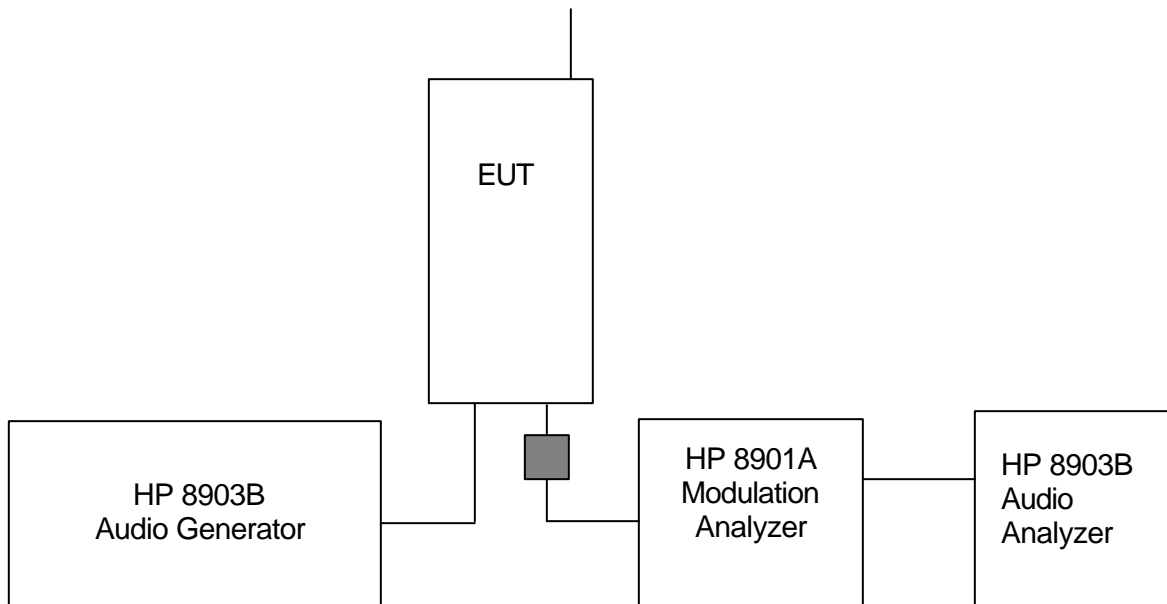


Fig. 3. Transmitter Audio Frequency & Tone Modulation Test Setup.

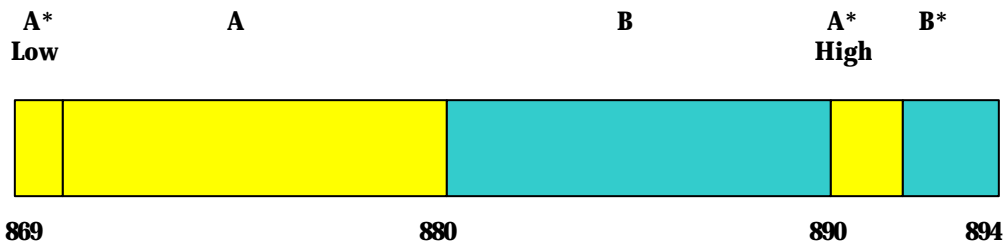
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4.1 DESCRIPTION OF TESTS (CONTINUED)

4.5 Occupied Bandwidth Emission Limits

- 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.
- 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.
- 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.
- 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.

4.6 Cellular - Base Frequency Blocks



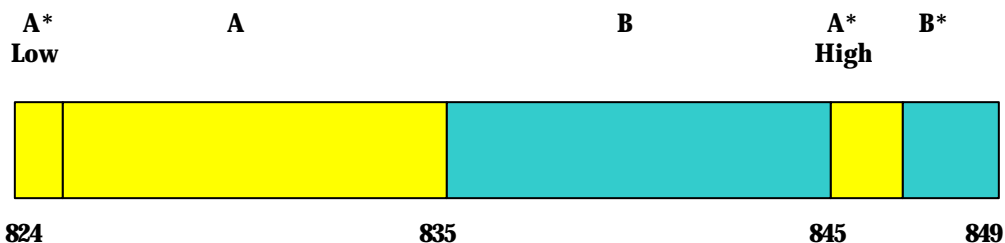
BLOCK 1: 869 – 880 MHz (A* Low + A)

BLOCK 3: 890 – 891.5 MHz (A* High)

BLOCK 2: 880 – 890 MHz (B)

BLOCK 4: 891.5 – 894 MHz (B*)

4.7 Cellular - Mobile Frequency Blocks



BLOCK 1: 824 – 835 MHz (A* Low + A)

BLOCK 3: 845 – 846.5 MHz (A* High)

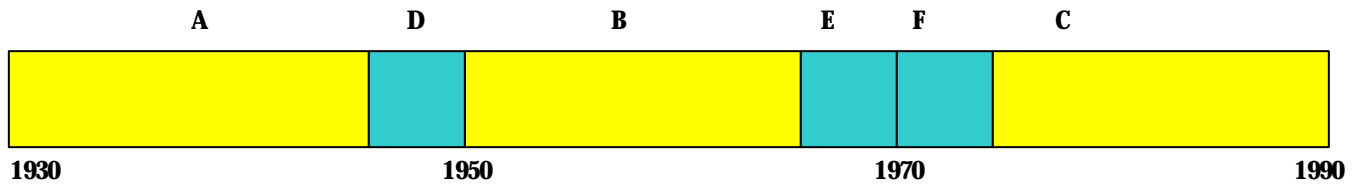
BLOCK 2: 835 – 845 MHz (B)

BLOCK 4: 846.5 – 849 MHz (B*)

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4.1 DESCRIPTION OF TESTS (CONTINUED)

4.8 PCS - Base Frequency Blocks



BLOCK 1: 1930–1945 MHz (A)

BLOCK 4: 1965–1970 MHz (E)

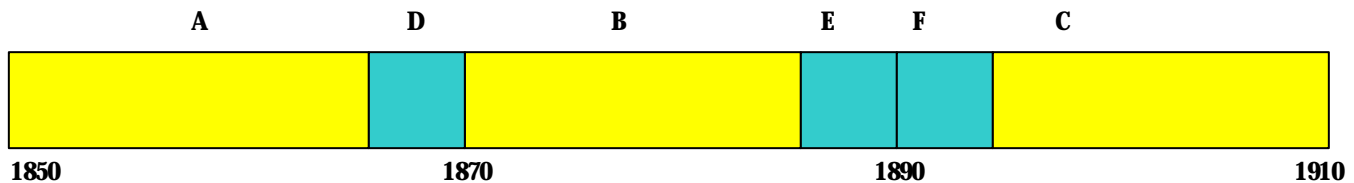
BLOCK 2: 1945–1950 MHz (D)

BLOCK 5: 1970–1975 MHz (F)

BLOCK 3: 1950–1965 MHz (B)

BLOCK 6: 1975–1990 MHz (C)

4.9 PCS - Mobile Frequency Blocks



BLOCK 1: 1850–1865 MHz (A)



BLOCK 4: 1885–1890 MHz (E)

BLOCK 2: 1865–1870 MHz (D)

BLOCK 5: 1890–1895 MHz (F)

BLOCK 3: 1870–1885 MHz (B)

BLOCK 6: 1895–1910 MHz (C)

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4.1 DESCRIPTION OF TESTS (CONTINUED)

4.10 Occupied Bandwidth

The audio signal generator is adjusted to 1kHz. The output level is set to ± 6 kHz deviation. With the level constant, the frequency is set to 2500Hz. Then the audio signal level is increased by 16dB. The occupied bandwidth data is obtained for the SAT (Supervisory Audio Tone), ST (Signaling Tone), WBD (Wideband data), and DTMF (Dual Tone Multi Frequencies). The results are shown on the attached graphs.

Specified Limits:

- On any frequency removed from the assigned carrier frequency by more than 20 kHz, up to and including 45kHz, the sideband is at least 26dB below the carrier.
- On any frequency removed from the assigned carrier frequency by more than 45 kHz, up to and including 90kHz, the sideband is at least 45dB below the carrier.
- On any frequency removed from the assigned carrier frequency by more than 90 kHz, up to the first multiple of the carrier frequency, the sideband is at least 60dB below the carrier or $40 + \log_{10}$ (mean power output in Watts) dB, whichever is the smaller attenuation.

4.11 Spurious and Harmonic Emissions at Antenna Terminal

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to 10 GHz. The transmitter is modulated with a 2500Hz tone at a level of 16dB greater than that required to provide 50% modulation.

At the input terminals of the spectrum analyzer, an isolator (RF circulator with one port terminated with 50 ohms) and an 870 MHz to 890 MHz bandpass filter is connected between the test transceiver (for conducted tests) or the receive antenna (for radiated tests) and the analyzer. The rejection of the bandpass filter to signals in the 825 – 845 MHz range is adequate to limit the transmit energy from the test transceiver which appears to a level which will allow the analyzer to measure signals less than -90dBm. Calibration of the test receiver is performed in the 870 – 890 MHz range to insure accuracy to allow variation in the bandpass filter insertion loss to be calibrated.

4.12 Frequencies

At the input terminals of the spectrum analyzer, an isolator (RF pad) and an high-pass filter are connected between the test transceiver (for conducted tests) or the receive antenna (for radiated tests) and the analyzer. The high-pass filter (signals below 1.6 GHz) is to limit the fundamental frequency from interfering with the measurement of low-level spurious and harmonic emissions and to ensure that the preamplifier is not saturated.

4.13 Radiation Spurious and Harmonic Emissions

Radiation and harmonic emissions are measured outdoors at our 3-meter test range. The equipment under test is placed on a wooden 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. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer reading. This 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.

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5.0 Frequency Stability/Temperature Variation.

The frequency stability of the transmitter is measured by:



- a.) **Temperature:** The temperature is varied 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 (22°C to 25°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 power to the transmitter.
4. Frequency measurements are made at 10°C interval up to room temperature. At least a period of one and one half-hour is provided to allow stabilization of the equipment at each temperature level.
5. Again the transmitter carrier frequency and the individual oscillators is measured at room temperature to begin measurement of the upper temperature levels.
6. Frequency measurements are at 10 intervals starting at -30°C up to +50°C allowing at least two hours at each temperature for stabilization. In all measurements the frequency is measured within three minutes after re-applying power to the transmitter.
7. The artificial load is mounted external to the temperature chamber.

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

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5.1 Test Data

5.2 Effective Radiated Power Output

A. POWER: **Low (Analog Mode)**

Freq. Tuned (MHz)	REF. LEVEL (dBm)	POL (H/V)	ERP (W)	ERP (dBm)
824.04	-35.100	H	0.004	6.173
836.49	-35.200	H	0.004	6.229
848.97	-35.000	H	0.005	6.585

B. POWER: **High (Analog Mode)**

Freq. Tuned (MHz)	REF. LEVEL (dBm)	POL (H/V)	ERP (W)	ERP (dBm)	BATTERY
824.04	-15.100	H	0.414	26.173	Standard
836.49	-15.200	H	0.420	26.229	Standard
848.97	-15.000	H	0.456	26.585	Standard
848.97	-15.400	H	0.415	26.185	Extended

Note: Standard and extended batteries are options for this phone

NOTES:

Effective Radiated Power Output Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. 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 the dipole is measured. The ERP is recorded.

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5.1 Test Data

5.3 Effective Radiated Power Output

A. POWER: **High (CDMA Mode)**



Freq. Tuned (MHz)	REF. LEVEL (dBm)	POL (H/V)	ERP (W)	ERP (dBm)	BATTERY
824.70	-16.250	H	0.318	25.023	Standard
836.49	-16.400	H	0.319	25.033	Standard
848.31	-15.880	H	0.372	25.703	Standard
836.49	-16.500	H	0.311	24.933	Extended

Note: Standard and extended batteries are options for this phone

NOTES:

Effective Radiated Power Output Measurements by Substitution Method
according to ANSI/TIA/EIA-603-A-2001, Aug 15, 2001.

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. 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 the dipole is measured. The ERP is recorded.

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6.1 Test Data

6.2 Equivalent Isotropic Radiated Power (E.I.R.P.)

Radiated measurements at 3 meters

Supply Voltage: 3.7 VDC

Modulation: PCS CDMA



FREQ. (MHz)	REF. LEVEL (dBm)	POL (H/V)	Azimuth (o angle)	EIRP (dBm)	EIRP (W)	Battery
1851.25	-16.400	H	90	26.681	0.467	Standard
1880.00	-16.200	H	90	27.051	0.508	Standard
1908.75	-16.300	H	90	27.121	0.517	Standard
1880.00	-16.300	H	90	26.951	0.497	Extended

Note: Standard and extended batteries are options for this phone

NOTES:

Equivalent Isotropic Radiated Power Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A Horn antenna was substituted in place of the EUT. This Horn 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 the Horn antenna is measured. The difference between the gain of the horn and an isotropic antenna is taken into consideration and the EIRP is recorded.

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7.1 Test Data

7.2 AMPS Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 824.04 MHz
 CHANNEL: 0991 (Low)
 MEASURED OUTPUT POWER: 26.585 dBm = 0.456 W
 MODULATION SIGNAL: FM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 39.58 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1648.08	-48.28	6.10	-42.18	H	68.8
2472.12	-50.98	6.70	-44.28	H	70.9
3296.16	-67.38	6.80	-60.58	H	87.2
4120.20	-85.78	6.50	-79.28	H	105.9
4944.24	-84.38	7.00	-77.38	H	104.0

NOTES:

Radiated Spurious Emission Measurements by Substitution Method
according to ANSI/TIA/FIA-603-A-2001, Aug. 15, 2001:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. 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.

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7.1 Test Data (Continued)

7.3 AMPS Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 836.49 MHz
 CHANNEL: 0383 (Mid)
 MEASURED OUTPUT POWER: 26.585 dBm = 0.456 W
 MODULATION SIGNAL: FM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 39.58 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1672.98	-41.78	6.10	-35.68	H	62.3
2509.47	-44.78	6.70	-38.08	H	64.7
3345.96	-69.08	6.80	-62.28	H	88.9
4182.45	-85.68	6.50	-79.18	H	105.8
5018.94	-83.88	7.00	-76.88	H	103.5

NOTES:

Radiated Spurious Emission Measurements by Substitution Method
according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. 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.

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7.1 Test Data (Continued)

7.4 AMPS Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 848.97 MHz
 CHANNEL: 0799 (High)
 MEASURED OUTPUT POWER: 26.585 dBm = 0.456 W
 MODULATION SIGNAL: FM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 39.58 dBc



FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1697.94	-39.48	6.10	-33.38	H	60.0
2546.91	-43.18	6.70	-36.48	H	63.1
3395.88	-72.08	6.80	-65.28	H	91.9
4244.85	-85.78	6.50	-79.28	H	105.9
5093.82	-83.98	7.00	-76.98	H	103.6

NOTES:

Radiated Spurious Emission Measurements by Substitution Method

according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. 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.

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7.1 Test Data (Continued)

7.5 CELLULAR CDMA Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 824.70 MHz
 CHANNEL: 1013 (Low)
 MEASURED OUTPUT POWER: 24.533 dBm = 0.372 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 38.70 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1649.40	-41.68	6.10	-35.58	H	60.1
2474.10	-45.58	6.70	-38.88	H	63.4
3298.80	-66.98	6.80	-60.18	H	84.7
4123.50	-85.68	6.50	-79.18	H	103.7
4948.20	-84.38	7.00	-77.38	H	101.9

NOTES:

Radiated Spurious Emission Measurements by Substitution Method
according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. 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.

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7.1 Test Data (Continued)

7.6 CELLULAR CDMA Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 836.49 MHz
 CHANNEL: 383
 MEASURED OUTPUT POWER: 25.703 dBm = 0.372 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 38.70 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1672.98	-41.08	6.10	-34.98	H	60.7
2509.47	-45.68	6.70	-38.98	H	64.7
3345.96	-71.78	6.80	-64.98	H	90.7
4182.45	-85.78	6.50	-79.28	H	105.0
5018.94	-83.78	7.00	-76.78	H	102.5

NOTES:

Radiated Spurious Emission Measurements by Substitution Method
according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. 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.

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7.1 Test Data (Continued)

7.7 CELLULAR CDMA Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 848.31 MHz
 CHANNEL: 0777 (High)
 MEASURED OUTPUT POWER: 25.703 dBm = 0.372 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 38.70 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1696.62	-39.48	6.10	-33.38	H	59.1
2544.93	-42.38	6.70	-35.68	H	61.4
3393.24	-69.48	6.80	-62.68	H	88.4
4241.55	-85.68	6.50	-79.18	H	104.9
5089.86	-83.98	7.00	-76.98	H	102.7

NOTES:

Radiated Spurious Emission Measurements by Substitution Method
according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. 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.

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8.1 Test Data

8.2 FREQUENCY STABILITY AMPS

OPERATING FREQUENCY: 836,490,004 Hz

CHANNEL: 383

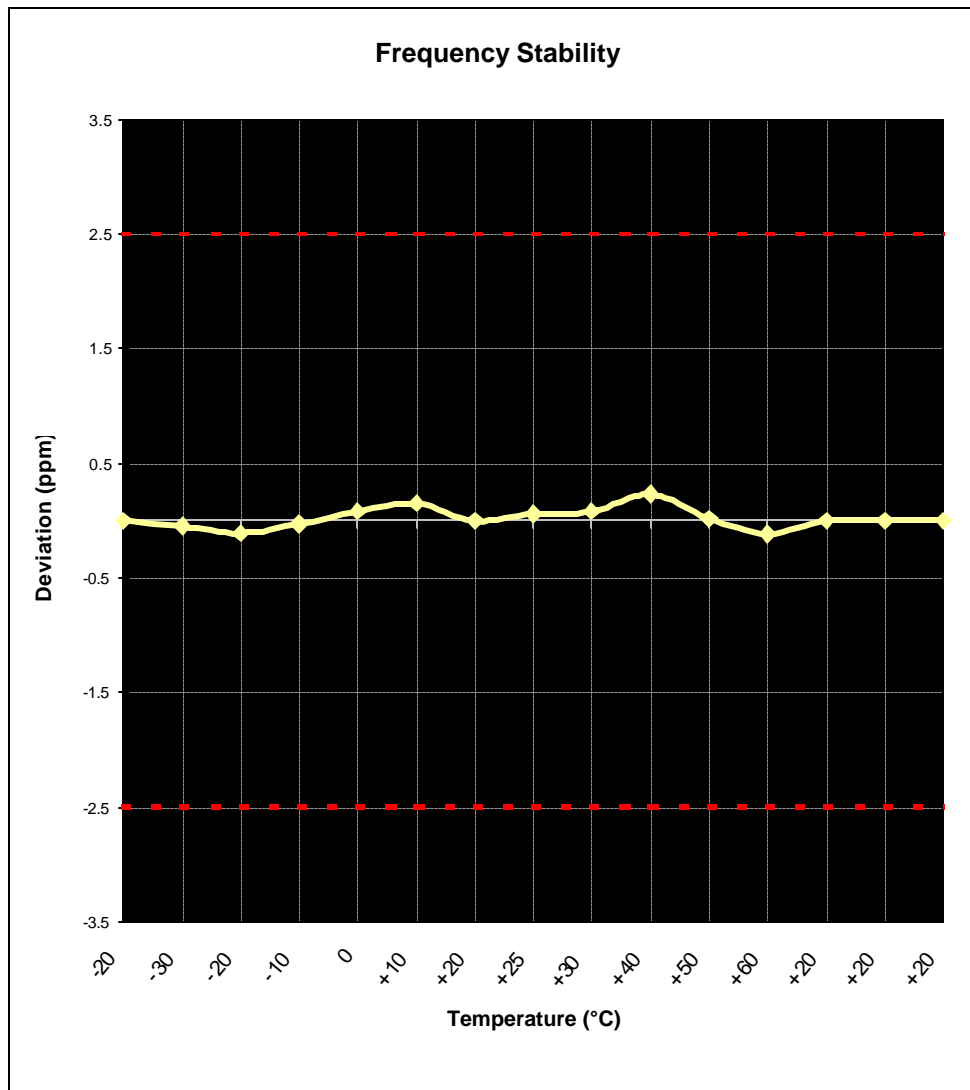
REFERENCE VOLTAGE: 3.7 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQ. (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	836,490,004	0.00	0.000000
100 %		- 30	836,490,046	-41.82	-0.000005
100 %		- 20	836,490,096	-92.01	-0.000011
100 %		- 10	836,490,029	-25.09	-0.000003
100 %		0	836,489,937	66.92	0.000008
100 %		+ 10	836,489,879	125.47	0.000015
100 %		+ 20	836,490,004	0.00	0.000000
100 %		+ 25	836,489,954	50.19	0.000006
100 %		+ 30	836,489,937	66.92	0.000008
100 %		+ 40	836,489,812	192.39	0.000023
100 %		+ 50	836,489,989	15.06	0.000002
100 %		+ 60	836,490,104	-100.38	-0.000012
85 %	3.17	+ 20	836,490,004	0.00	0.000000
115 %	4.26	+ 20	836,490,004	0.00	0.000000
BATT. ENDPOINT	3.10	+ 20	836,490,004	0.00	0.000000

8.1 Test Data (Continued)

8.3 FREQUENCY STABILITY AMPS



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8.1 Test Data

8.4 FREQUENCY STABILITY (CDMA)

OPERATING FREQUENCY: 836,490,006 Hz

CHANNEL: 383

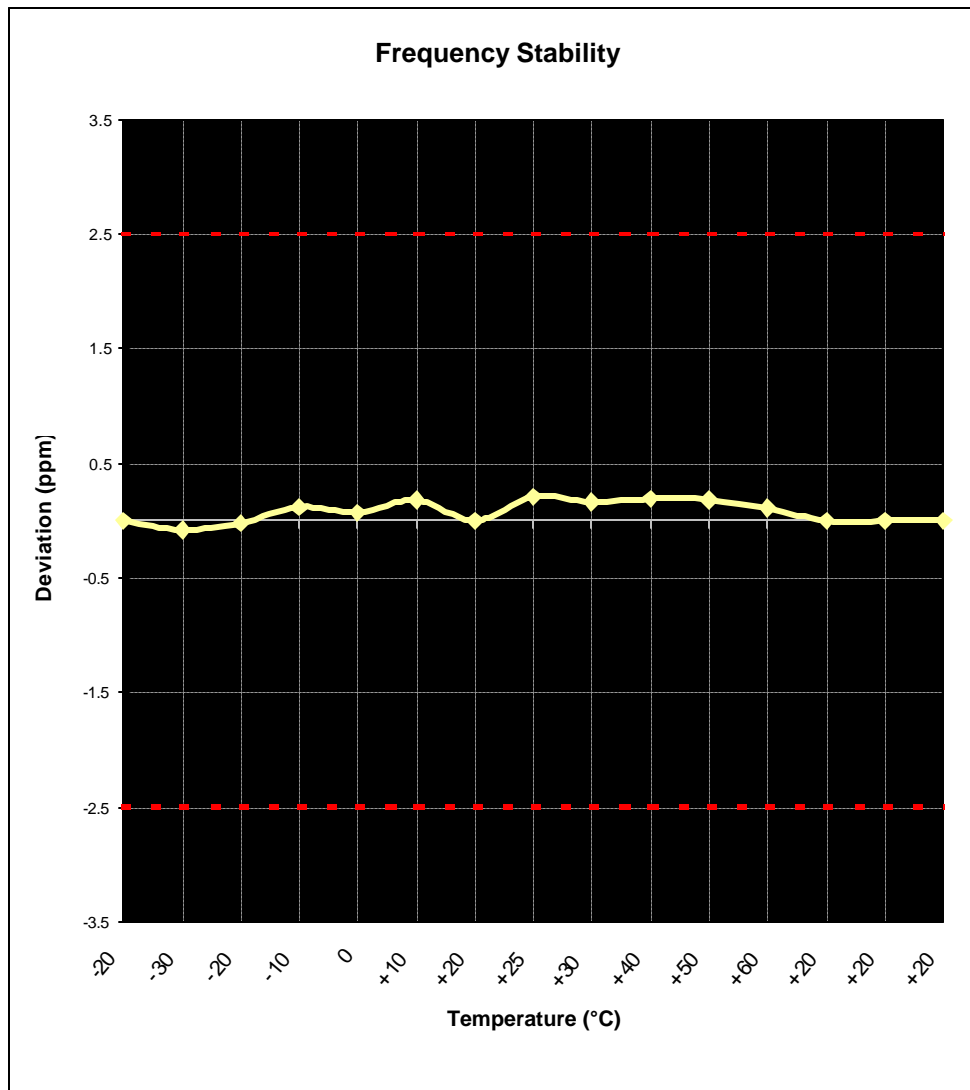
REFERENCE VOLTAGE: 3.7 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQ. (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	836,490,006	0.00	0.000000
100 %		- 30	836,490,073	-66.92	-0.000008
100 %		- 20	836,490,023	-16.73	-0.000002
100 %		- 10	836,489,906	100.38	0.000012
100 %		0	836,489,947	58.55	0.000007
100 %		+ 10	836,489,855	150.57	0.000018
100 %		+ 20	836,490,006	0.00	0.000000
100 %		+ 25	836,489,830	175.66	0.000021
100 %		+ 30	836,489,872	133.84	0.000016
100 %		+ 40	836,489,847	158.93	0.000019
100 %		+ 50	836,489,855	150.57	0.000018
100 %		+ 60	836,489,914	92.01	0.000011
85 %	3.17	+ 20	836,490,006	0.00	0.000000
115 %	4.26	+ 20	836,490,006	0.00	0.000000
BATT. ENDPOINT	3.23	+ 20	836,490,006	0.00	0.000000

8.1 Test Data (Continued)

8.5 FREQUENCY STABILITY (CDMA)



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8.1 Test Data

8.6 FREQUENCY STABILITY (PCS CDMA)

OPERATING FREQUENCY: 1,880,000,004 Hz

CHANNEL: 600

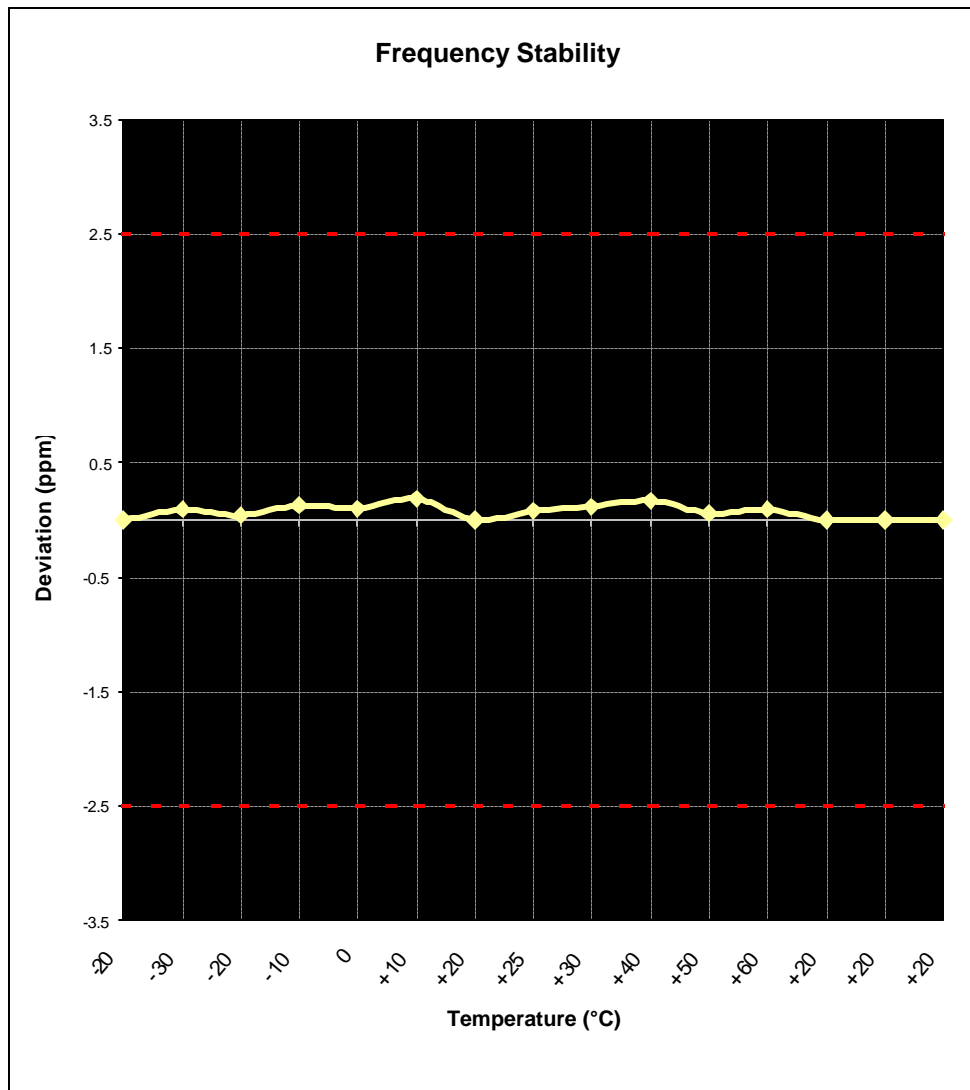
REFERENCE VOLTAGE: 3.7 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQ. (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	1,880,000,004	0.00	0.000000
100 %		- 30	1,879,999,835	169.20	0.000009
100 %		- 20	1,879,999,929	75.20	0.000004
100 %		- 10	1,879,999,760	244.40	0.000013
100 %		0	1,879,999,816	188.00	0.000010
100 %		+ 10	1,879,999,647	357.20	0.000019
100 %		+ 20	1,880,000,004	0.00	0.000000
100 %		+ 25	1,879,999,854	150.40	0.000008
100 %		+ 30	1,879,999,778	225.60	0.000012
100 %		+ 40	1,879,999,684	319.60	0.000017
100 %		+ 50	1,879,999,891	112.80	0.000006
100 %		+ 60	1,879,999,835	169.20	0.000009
85 %	3.15	+ 20	1,880,000,004	0.00	0.000000
115 %	4.26	+ 20	1,880,000,004	0.00	0.000000
BATT. ENDPOINT	3.12	+ 20	1,880,000,004	0.00	0.000000

8.1 Test Data (Continued)



8.7 FREQUENCY STABILITY (PCS CDMA)



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9.1 PLOT(S) OF EMISSIONS

(SEE ATTACHMENT D)

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10.1 TEST EQUIPMENT

TYPE	MODEL	CAL DUE DATE	S/N
Signal Generator	Rohde & Schwarz (0.1? 1000MHz)	9/11/2006	894215/012
Ailtech/Eaton Receiver	NM 37/57A? SL (30? 1000MHz)	4/12/2006	0792? 03271
Ailtech/Eaton Receiver	NM 37/57A (30? 1000MHz)	3/11/2006	0805? 03334
Ailtech/Eaton Receiver	NM 17/27A (0.1? 32MHz)	9/17/2006	0608? 03241
Ailtech/Eaton Adapter	CCA? 7 CISPR/ANSI QP Adapter	3/11/2006	0194? 04082
Harmonic/Flicker	Test System HP 6841A (IEC 555? 2/3)	2/11/2006	3531A00115/ PCT468
Harmonic/Flicker	Test System HP 6841A (IEC 555? 2/3)	2/11/2006	3531A00115/ PCT468
Shielded Screen Room	RF Lindgren Model 26? 2/2? 0	6/19/2006	6710 (PCT270)
Shielded Semi? Anechoic Chamber	Ray Proof Model S81	4/17/2006	R2437 (PCT278)
Quasi? Peak Adapter	HP 85650A	8/9/2006	2043A00301
Microwave Spectrum Analyzer	HP 8566B (100Hz? 22GHz)	8/15/2006	3638A08713
Microwave Spectrum Analyzer	HP 8566B (100Hz? 22GHz)	4/17/2006	2542A11898
Spectrum Analyzer/Tracking Gen.	HP 8591A (100Hz? 1.8GHz)	9/12/2006	3144A02458
Signal Generator	HP 8640B (500Hz? 1GHz)	6/3/2006	2232A19558
Signal Generator	HP 8640B (500Hz? 1GHz)	6/3/2006	1851A09816
Signal Generator	HP 8648D (9kHz-4GHz)	5/1/2006	3613A00315
Spectrum Analyzer	HP 8594A	11/2/2006	3051A00187
Spectrum Analyzer (2)	HP 8591A	10/15/2006	3034A01395, 3108A02053
Audio Analyzer	HP 8903B		3011A09025
Modulation Analyzer	HP 8901A		2432A03467
Power Meter	HP 437B		3125U24437
Power Sensor	HP 8482H (30 μ W-3W)		2237A02084
Broadband Amplifier (2)	HP 8447D		1145A00470, 1937A03348
Broadband Amplifier	HP 8447F		2443A03784
Network Analyzer	HP 8753E (30kHz-3GHz)		JP38020182
Attenuator	HP 8495A (0? 70dB) DC? 4GHz		
Horn Antenna	EMCO Model 3115 (1? 18GHz)		9704? 5182
Horn Antenna	EMCO Model 3115 (1? 18GHz)		9205? 3874
Horn Antenna	EMCO Model 3116 (18? 40GHz)		9203? 2178
Biconical Antenna (4)	Eaton 94455/Eaton 94455? 1/Singer 94455? 1/Compliance Design		1295, 1332, 0355
Log? Spiral Antenna (3)	Ailtech/Eaton 93490? 1		0608, 1103, 1104
Roberts Dipoles	Compliance Design (1 set)		
Ailtech Dipoles	DM? 105A (1 set)		33448? 111
EMCO LISN (6)	3816/2		1079
Microwave Preamplifier 40dB	Gain HP 83017A (0.5? 26.5GHz)		3123A00181
Microwave Cables	MicroCoax (1.0? 26.5GHz)		
Gigatronics Universal Power Meter	8657A		1835256
Gigatronics Power Sensor	80701A (0.05-18GHz)		1833460

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11.1 SAMPLE CALCULATIONS

A. Emission Designator

Emission Designator = 1M25F9W

CDMA BW = 1.25 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

(Measured at the 99.75% power bandwidth)

Emission Designator = 40K0F8W

Calculation: Voice + SAT

Modulation: Voice is 2.5 kHz and SAT is 6 kHz – Maximum modulation is $M = 6$ kHz

Deviation: Voice is 12 kHz and SAT is 2 kHz – Maximum deviation is $D = 12 + 2 = 14$ kHz

$B_n = 2 \times M + 2 \times DK$ with $K = 1$

$B_n = 40$ kHz

Calculation: Signaling Tone (ST) + SAT

Modulation: ST is 10 kHz and SAT is 6 kHz – Maximum modulation is $M = 10$ kHz

Deviation: ST is 8 kHz and SAT is 2 kHz – Maximum deviation is $D = 8 + 2 = 10$ kHz

$B_n = 2 \times M + 2 \times DK$ with $K = 1$

$B_n = 40$ kHz

Emission Designator = 40K0F1D

Calculation: Voice + SAT

Modulation: Wideband Data is 10 kHz and SAT is 6 kHz – Maximum modulation is $M = 10$ kHz

Deviation: Wideband Data is 8 kHz and SAT is 2 kHz – Maximum deviation is $D = 8 + 2 = 10$ kHz

$B_n = 2 \times M + 2 \times DK$ with $K = 1$

$B_n = 40$ kHz

B. Spurious Radiated Emission - PCS Band

Example: Channel 25 PCS Mode 2nd Harmonic (3702.50 MHz)



The receive analyzer reading at 3 meters with the EUT on the turntable was -81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0 dBm on the receive analyzer.

The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 3702.50 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.501 dBm so this harmonic was $25.501 \text{ dBm} - (-24.80) = 50.3 \text{ dBc}$

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12.1 CONCLUSION

The data collected shows that the **SANYO Electric Co., Ltd. Dual-Band CDMA Phone FCC ID: AEZSCP-75H** complies with all the requirements of Parts 22, and 24 of the FCC rules.

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