



PCTEST ENGINEERING LABORATORY, INC.

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CERTIFICATE OF COMPLIANCE FCC Part 24 & 22 Certification

Applicant Name:
Sanyo Electric Co Ltd
c/o Sanyo Fisher Company
21605 Plummer Street
Chatsworth, CA 91311
USA

Date of Testing:
August 1 - 4, 2006
Test Site/Location:
PCTEST Lab, Columbia, MD, USA
Test Report Serial No.:
0607240631

FCC ID:	AEZSCP-70H
APPLICANT:	SANYO ELECTRIC CO LTD

Application Type:	Certification
FCC Classification:	PCS Licensed 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(s):	SCP-7000
Tx Frequency Range:	824.04 - 848.97MHz (AMPS) / 824.70 - 848.31MHz (Cell. CDMA) / 1851.25 - 1908.75MHz (PCS CDMA)
Rx Frequency Range:	869.04 - 893.97MHz (AMPS) / 869.70 - 893.31MHz (Cell. CDMA) / 1931.25 - 1988.75MHz (PCS CDMA)
Max. RF Output Power:	0.427 W ERP AMPS (26.304 dBm) / 0.339 W ERP Cell. CDMA (25.308 dBm) / 0.646 W EIRP PCS CDMA (28.101 dBm)
Max. SAR Measurement:	1.080 W/kg AMPS Head SAR, 0.756 W/kg AMPS Body SAR; 0.900 W/kg Cell. CDMA Head SAR, 0.602 W/kg Cell. CDMA Body SAR; 0.782 W/kg PCS CDMA Head SAR, 0.780 W/kg PCS CDMA Body SAR;
Emission Designator(s):	40K0F8W / 40K0F4D (AMPS), 1M25F9W (CDMA)
Test Device Serial No.:	identical prototype [S/N: F7991B97]

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 2.2cm between the back of the unit and the body of the user. Push-to-Talk 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.


Randy Ortanez
President



PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 1 of 32

TABLE OF CONTENTS

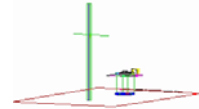
1.0	SCOPE	3
2.0	INTRODUCTION	4
2.1	TESTING FACILITY	4
2.2	MEASUREMENT PROCEDURE	4
3.0	INSERTS	5
4.0	DESCRIPTION OF TESTS.....	6
4.1	TRANSMITTER AUDIO FREQUENCY RESPONSE.....	6
4.2	AUDIO LOW PASS FILTER FREQUENCY RESPONSE	6
4.3	MODULATION LIMITING	6
4.4	OCCUPIED BANDWIDTH EMISSION LIMITS	7
4.5	CELLULAR - BASE FREQUENCY BLOCKS.....	7
4.6	CELLULAR - MOBILE FREQUENCY BLOCKS.....	7
4.7	PCS - BASE FREQUENCY BLOCKS	8
4.8	PCS - MOBILE FREQUENCY BLOCKS.....	8
4.9	OCCUPIED BANDWIDTH.....	9
4.10	SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL	9
4.11	FREQUENCIES	9
4.12	RADIATED SPURIOUS AND HARMONIC EMISSIONS	10
4.13	FREQUENCY STABILITY / TEMPERATURE VARIATION	10
5.0	CONDUCTED OUTPUT POWER	11
5.1	SAR MEASUREMENT CONDITIONS FOR CDMA2000	11
5.2	OUTPUT POWER VERIFICATION.....	11
6.0	EFFECTIVE RADIATED POWER	12
6.1	EFFECTIVE RADIATED POWER OUTPUT DATA	12
7.0	EQUIVALENT ISOTROPIC RADIATED POWER	13
7.1	EQUIVALENT ISOTROPIC RADIATED POWER OUTPUT DATA.....	13
8.0	RADIATED MEASUREMENTS	14
8.1	AMPS RADIATED MEASUREMENTS.....	14
8.2	CELLULAR CDMA RADIATED MEASUREMENTS.....	17
8.3	PCS CDMA RADIATED MEASUREMENTS.....	20
9.0	FREQUENCY STABILITY	23
9.1	FREQUENCY STABILITY (AMPS)	23
9.2	FREQUENCY STABILITY (CELLULAR CDMA)	25
9.3	FREQUENCY STABILITY (PCS CDMA)	27
10.0	PLOT(S) OF EMISSIONS.....	29
11.0	TEST EQUIPMENT	30
12.0	SAMPLE CALCULATIONS	31
13.0	CONCLUSION.....	32
ATTACHMENT A:	TEST PLOTS	
ATTACHMENT B:	TEST SETUP PHOTOGRAPHS	
ATTACHMENT C:	EXTERNAL PHOTOGRAPHS	
ATTACHMENT D:	INTERNAL PHOTOGRAPHS	

PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 2 of 32

1.0 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 Fisher Company
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 Chatsworth, CA 91311
 USA

- FCC ID: AEZSCP-70H
- Quantity: Quantity production is planned
- Emission Designators: 40K0F8W / 40K0F1D (AMPS), 1M25F9W (CDMA)
- Tx Freq. Range: 824.04 - 848.97MHz (AMPS)
 824.70 - 848.31MHz (Cell. CDMA)
 1851.25 - 1908.75MHz (PCS CDMA)
- Rx Freq. Range: 869.04 - 893.97MHz (AMPS)
 869.70 - 893.31MHz (Cell. CDMA)
 1931.25 - 1988.75MHz (PCS CDMA)
- Max. Power Rating: 0.427 W ERP AMPS (26.304 dBm) /
 0.339 W ERP Cell. CDMA (25.308 dBm) /
 0.646 W EIRP PCS CDMA (28.101 dBm)
- FCC Classification(s): PCS Licensed Transmitter Held to Ear (PCE)
- Equipment (EUT) Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)
- Modulation(s): AMPS / CDMA
- Frequency Tolerance: $\pm 0.00025\%$ (2.5 ppm)
- FCC Rule Part(s): § 24(E), §22(H)
- Dates of Tests: August 1 - 4, 2006
- Place of Tests: PCTEST Lab, Columbia, MD U.S.A.
- Test Report S/N: 0607240631

Note: *Deviation from measurement procedure – None*

PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 3 of 32

2.0 INTRODUCTION

2.1 Testing Facility

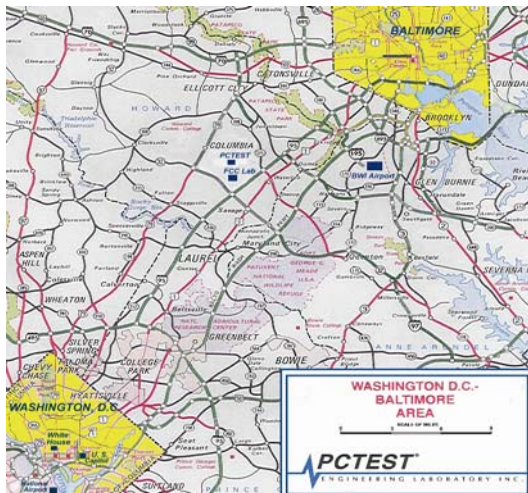


Figure 1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area.

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 C63.4-2003 on January 27, 2006 and Industry Canada.

2.2 Measurement Procedure

The radiated spurious measurements were made outdoors at a 3-meter test range (see Figure 2). 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.

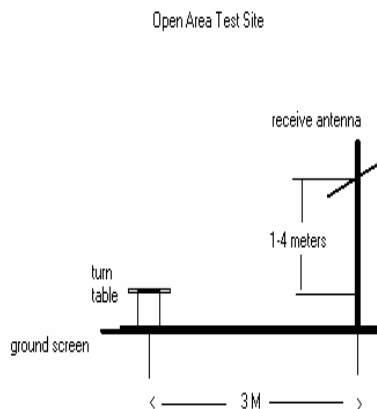



Figure 2. Diagram of 3-meter outdoor test range

PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 4 of 32

3.0 INSERTS

Function of Active Devices (Confidential)

Block & Schematic Diagrams (Confidential)


Operating Instructions

Parts List & Tune-Up Procedure (Confidential)

Description of Freq. Stabilization Circuit (Confidential)

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

Note: These exhibits are not included within this report.

PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 5 of 32

4.0 DESCRIPTION OF TESTS

4.1 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.

4.2 Audio Low Pass Filter Frequency Response

The response in dB relative to 1kHz is measured using the HP8901 a 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.

4.3 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, 1000Hz, 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.

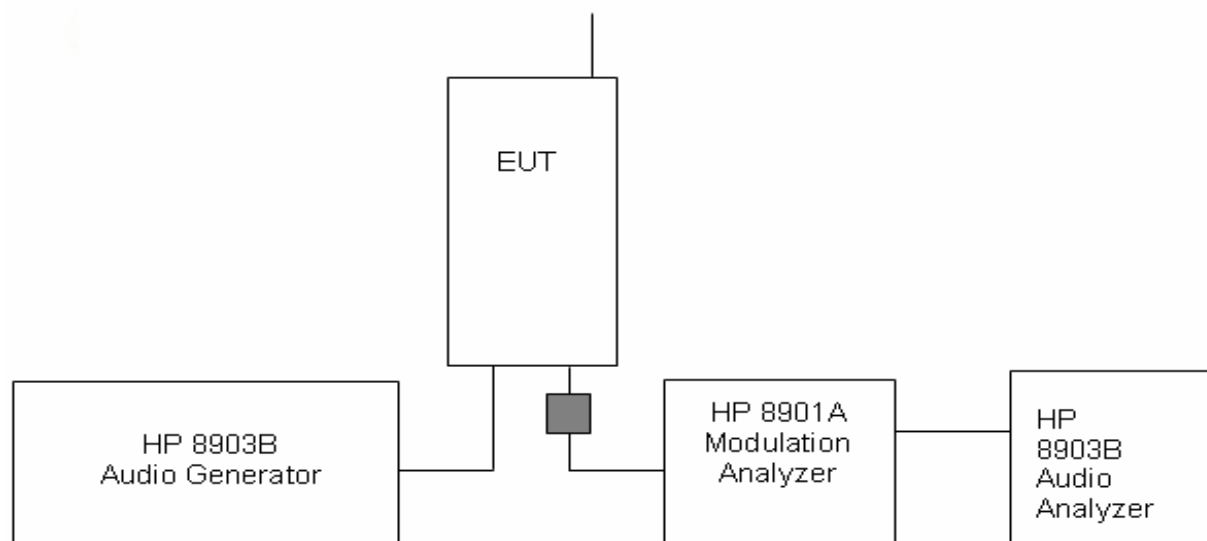



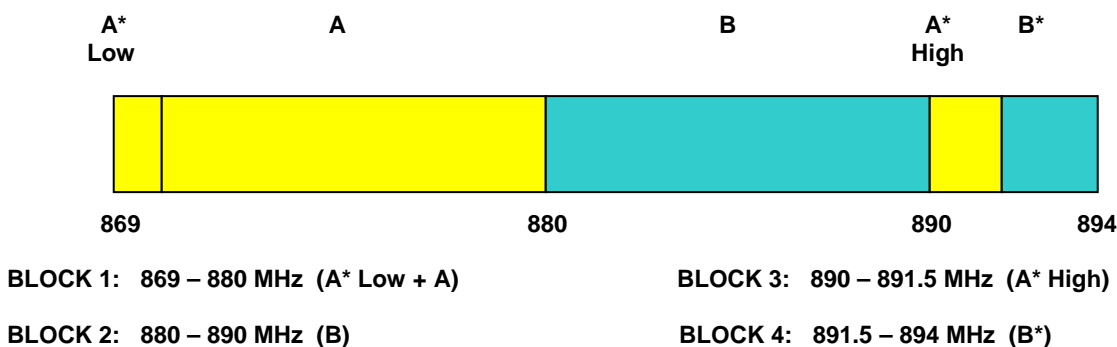
Figure 3. Transmitter Audio Frequency & Tone Modulation Test Setup

PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 6 of 32

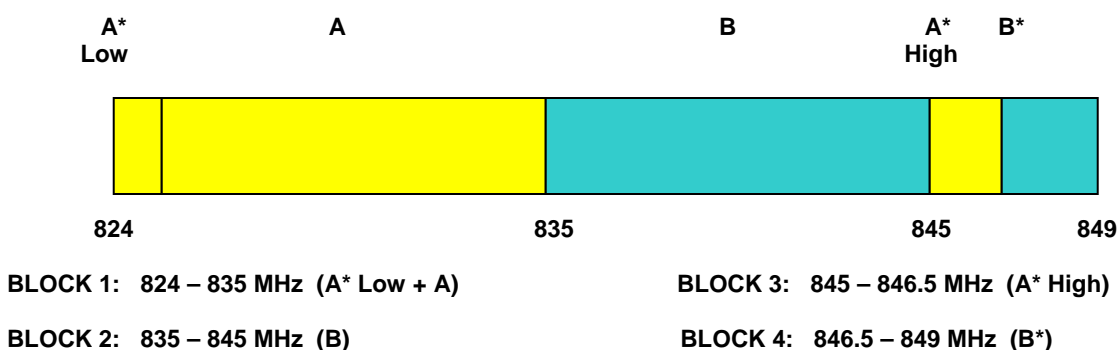
4.4 Occupied Bandwidth Emission Limits


- 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.

4.5 Cellular - Base Frequency Blocks

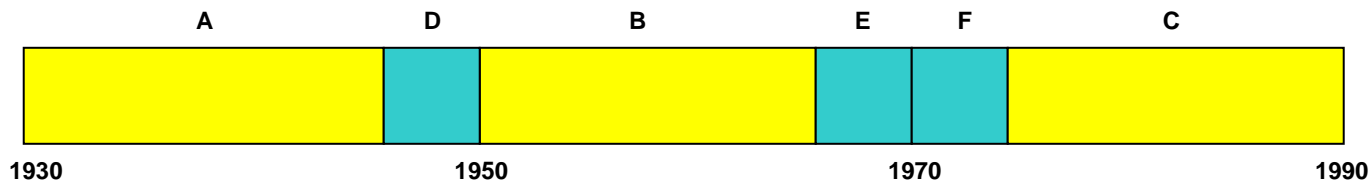


4.6 Cellular - Mobile Frequency Blocks



PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 7 of 32

4.7 PCS - Base Frequency Blocks



BLOCK 1: 1930 – 1945 MHz (A)

BLOCK 4: 1965 – 1970 MHz (E)

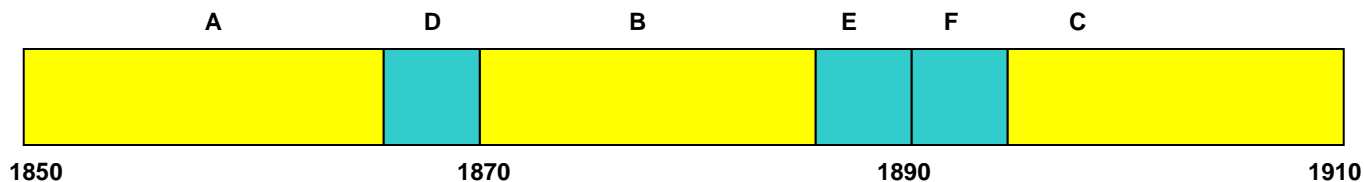
BLOCK 2: 1945 – 1950 MHz (D)

BLOCK 5: 1970 – 1975 MHz (F)

BLOCK 3: 1950 – 1965 MHz (B)

BLOCK 6: 1975 – 1990 MHz (C)

4.8 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)

PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 8 of 32

4.9 Occupied Bandwidth

The audio signal generator is adjusted to 1 kHz. The output level is set to ± 6 kHz deviation. With the level constant, the frequency is set to 2500 Hz. Then the audio signal level is increased by 16 dB. 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:

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


4.10 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 2500 Hz tone at a level of 16 dB greater than that required to provide 50% modulation.

At the input terminals of the spectrum analyzer, an isolator (RF circulator with one port terminated in 50 Ω) and an 870 MHz to 890 MHz band-pass filter is connected between the test transceiver (for conducted tests) or the receive antenna (for radiated tests) and the analyzer. The rejection of the band-pass 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 -90 dBm. Calibration of the test receiver is performed in the 870 – 890 MHz range to insure accuracy to allow variation in the band-pass filter insertion loss to be calibrated.

4.11 Frequencies

At the input terminals of the spectrum analyzer, an isolator (RF pad) and a 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.

PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 9 of 32

4.12 Radiated 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 1 GHz, 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. This device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55, with "All Up" power control bits.

4.13 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.

PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 10 of 32

5.0 CONDUCTED OUTPUT POWER

This device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55, with "All Up" power control bits.

5.1 SAR Measurement Conditions for CDMA2000

The following procedures were followed according to FCC "SAR Measurement Procedures for 3G Devices", June 2006.

5.2 Output Power Verification

See 3GPP2 C.S0011/TIA-98-E as recommended by "SAR Measurement Procedures for 3G Devices", June 2006.

1. If the mobile station (MS) supports Reverse TCH RC 1 and Forward TCH RC 1, set up a call using Fundamental Channel Test Mode 1 (RC=1/1) with 9600 bps data rate only.
2. Under RC1, C.S0011 Table 4.4.5.2-1, Table 5-1 parameters were applied.
3. If the MS supports the RC 3 Reverse FCH, RC3 Reverse SCH0 and demodulation of RC 3,4, or 5, set up a call using Supplemental Channel Test Mode 3 (RC 3/3) with 9600 bps Fundamental Channel and 9600 bps SCH0 data rate.
4. Under RC3, C.S0011 Table 4.4.5.2-2, Table 5-2 was applied.
5. FCHs were configured at full rate for maximum SAR with "All Up" power control bits.

Parameter	Units	Value
I_{or}	dBm/1.23 MHz	-104
$\frac{Pilot E_c}{I_{or}}$	dB	-7
$\frac{Traffic E_c}{I_{or}}$	dB	-7.4


Table 5-1
Parameters for Max. Power for RC1

Parameter	Units	Value
I_{or}	dBm/1.23 MHz	-86
$\frac{Pilot E_c}{I_{or}}$	dB	-7
$\frac{Traffic E_c}{I_{or}}$	dB	-7.4

Table 5-2
Parameters for Max. Power for RC3

Band	Channel	SO2	SO2	SO55	SO55	TDSO SO32
		RC1/1	RC3/3	RC1/1	RC3/3	RC3/3
Cellular	1013	23.55	23.60	23.59	23.60	23.66
	383	23.52	23.54	23.50	23.54	23.61
	777	23.54	23.53	23.52	23.59	23.53
PCS	25	23.50	23.41	23.50	23.48	23.46
	600	23.65	23.56	24.67	23.52	23.66
	1175	23.45	23.42	23.51	23.48	23.45

Table 5-3
Maximum Power Output Table for SCP-7000

PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 11 of 32

6.0 EFFECTIVE RADIATED POWER

6.1 Effective Radiated Power Output Data

POWER: High (Analog Mode)

Freq. Tuned (MHz)	REF. LEVEL (dBm)	POL (H/V)	ERP (W)	ERP (dBm)	BATTERY
824.04	-15.900	H	0.345	25.373	Standard
836.49	-15.125	H	0.427	26.304	Standard
848.97	-16.500	H	0.322	25.085	Standard
836.49	-15.200	H	0.420	26.229	Extended

POWER: High (CDMA Mode)

Freq. Tuned (MHz)	REF. LEVEL (dBm)	POL (H/V)	ERP (W)	ERP (dBm)	BATTERY
824.70	-16.900	H	0.274	24.373	Standard
836.49	-16.125	H	0.339	25.308	Standard
848.31	-17.500	H	0.256	24.083	Standard
836.49	-16.200	H	0.334	25.233	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-C-2004, Aug. 17, 2004:

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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. 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.

This device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55, with "All Up" power control bits.

PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 12 of 32

7.0 EQUIVALENT ISOTROPIC RADIATED POWER

7.1 Equivalent Isotropic Radiated Power Output Data

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	-15.500	H	180	27.581	0.573	Standard
1880.00	-15.150	H	180	28.101	0.646	Standard
1908.75	-16.500	H	180	26.921	0.492	Standard
1880.00	-15.200	H	180	28.051	0.638	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-C-2004, Aug. 17, 2004:

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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. 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.

This device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55, with "All Up" power control bits.

PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 13 of 32

8.0 RADIATED MEASUREMENTS

8.1 AMPS Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 824.04 MHz
 CHANNEL: 0991 (Low)
 MEASURED OUTPUT POWER: 26.304 dBm = 0.427 W
 MODULATION SIGNAL: FM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 39.30 dBc


FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1648.08	-29.63	6.10	-23.53	H	49.8
2472.12	-47.95	6.70	-41.25	H	67.6
3296.16	-53.29	6.80	-46.49	H	72.8
4120.20	-51.28	6.50	-44.78	H	71.1
4944.24	-53.08	7.00	-46.08	H	72.4

NOTES:

Equivalent Isotropic Radiated Power Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. 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.

This device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55, with "All Up" power control bits.

PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 14 of 32

8.1 AMPS Radiated Measurements (Cont'd)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 836.49 MHz
 CHANNEL: 0383 (Mid)
 MEASURED OUTPUT POWER: 26.304 dBm = 0.427 W
 MODULATION SIGNAL: FM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 39.30 dBc


FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1672.98	-26.23	6.10	-20.13	H	46.4
2509.47	-43.06	6.70	-36.36	H	62.7
3345.96	-50.30	6.80	-43.50	H	69.8
4182.45	-46.81	6.50	-40.31	H	66.6
5018.94	-49.70	7.00	-42.70	H	69.0

NOTES:

Equivalent Isotropic Radiated Power Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. 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.

This device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55, with "All Up" power control bits.

PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 15 of 32

8.1 AMPS Radiated Measurements (Cont'd)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 848.97 MHz
 CHANNEL: 0799 (High)
 MEASURED OUTPUT POWER: 26.304 dBm = 0.427 W
 MODULATION SIGNAL: FM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 39.30 dBc


FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1697.94	-25.74	6.10	-19.64	H	45.9
2546.91	-43.06	6.70	-36.36	H	62.7
3395.88	-51.61	6.80	-44.81	H	71.1
4244.85	-47.05	6.50	-40.55	H	66.9
5093.82	-50.74	7.00	-43.74	H	70.0

NOTES:

Equivalent Isotropic Radiated Power Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. 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.

This device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55, with "All Up" power control bits.

PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 16 of 32

8.2 Cellular CDMA Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 824.70 MHz
 CHANNEL: 1013 (Low)
 MEASURED OUTPUT POWER: 25.308 dBm = 0.339 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 38.31 dBc


FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1649.40	-45.73	6.10	-39.63	H	64.9
2474.10	-47.95	6.70	-41.25	H	66.6
3298.80	-49.99	6.80	-43.19	H	68.5
4123.50	-51.58	6.50	-45.08	H	70.4
4948.20	-54.38	7.00	-47.38	H	72.7

NOTES:

Equivalent Isotropic Radiated Power Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. 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.

This device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55, with "All Up" power control bits.

PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 17 of 32

8.2 Cellular CDMA Radiated Measurements (Cont'd)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 836.49 MHz
 CHANNEL: 0383 (Mid)
 MEASURED OUTPUT POWER: 25.308 dBm = 0.339 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 38.31 dBc


FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1672.98	-48.73	6.10	-42.63	H	67.9
2509.47	-50.16	6.70	-43.46	H	68.8
3345.96	-50.80	6.80	-44.00	H	69.3
4182.45	-52.11	6.50	-45.61	H	70.9
5018.94	-56.10	7.00	-49.10	H	74.4

NOTES:

Equivalent Isotropic Radiated Power Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. 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.

This device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55, with "All Up" power control bits.

PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 18 of 32

8.2 Cellular CDMA Radiated Measurements (Cont'd)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 848.31 MHz
 CHANNEL: 0777 (High)
 MEASURED OUTPUT POWER: 25.308 dBm = 0.339 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 38.31 dBc


FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1696.62	-49.44	6.10	-43.34	H	68.6
2544.93	-52.76	6.70	-46.06	H	71.4
3393.24	-51.41	6.80	-44.61	H	69.9
4241.55	-53.05	6.50	-46.55	H	71.9
5089.86	-55.14	7.00	-48.14	H	73.4

NOTES:

Equivalent Isotropic Radiated Power Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. 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.

This device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55, with "All Up" power control bits.

PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 19 of 32

8.3 PCS CDMA Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1851.25 MHz
 CHANNEL: 0025 (Low)
 MEASURED OUTPUT POWER: 28.101 dBm = 0.646 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 41.10 dBc


FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3702.50	-38.55	8.70	-29.85	H	58.0
5553.75	-35.70	9.70	-26.00	H	54.1
7405.00	-38.62	9.90	-28.72	H	56.8
9256.25	-31.61	11.40	-20.21	H	48.3
11107.50	-34.44	12.10	-22.34	H	50.4

NOTES:

Equivalent Isotropic Radiated Power Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. 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.

This device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55, with "All Up" power control bits.

PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 20 of 32

8.3 PCS CDMA Radiated Measurements (Cont'd)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 0600 (Mid)
 MEASURED OUTPUT POWER: 28.101 dBm = 0.646 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 41.10 dBc


FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3760.00	-42.70	8.70	-34.00	H	62.1
5640.00	-39.33	9.70	-29.63	H	57.7
7520.00	-37.43	9.90	-27.53	H	55.6
9400.00	-41.83	11.40	-30.43	H	58.5
11280.00	-42.93	12.10	-30.83	H	58.9

NOTES:

Equivalent Isotropic Radiated Power Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. 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.

This device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55, with "All Up" power control bits.

PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 21 of 32

8.3 PCS CDMA Radiated Measurements (Cont'd)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1908.75 MHz
 CHANNEL: 1175 (High)
 MEASURED OUTPUT POWER: 28.101 dBm = 0.646 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 41.10 dBc


FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3817.50	-40.74	8.70	-32.04	H	60.1
5726.25	-43.82	9.70	-34.12	H	62.2
7635.00	-42.10	9.90	-32.20	H	60.3
9543.75	-32.46	11.40	-21.06	H	49.2
11452.50	-36.20	12.10	-24.10	H	52.2

NOTES:

Equivalent Isotropic Radiated Power Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. 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.

This device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55, with "All Up" power control bits.

PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 22 of 32

9.0 FREQUENCY STABILITY

9.1 Frequency Stability (AMPS)

OPERATING FREQUENCY: 836,490,003 Hz

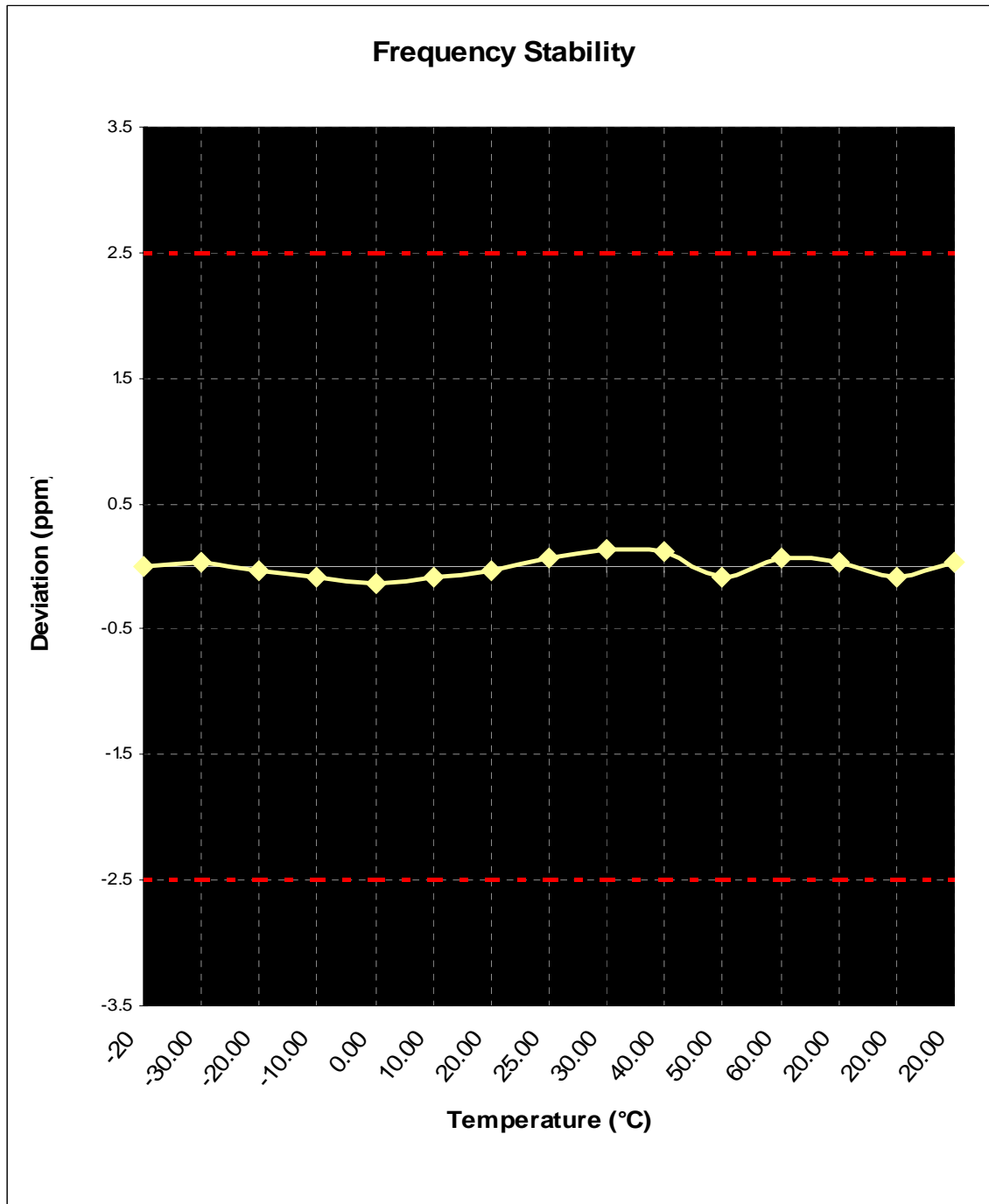
CHANNEL: 383


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)	836,490,003	0.00	0.000000
100 %		-30	836,489,978	25.09	0.000003
100 %		-20	836,490,036	-33.46	-0.000004
100 %		-10	836,490,078	-75.28	-0.000009
100 %		0	836,490,120	-117.11	-0.000014
100 %		10	836,490,070	-66.92	-0.000008
100 %		20	836,490,028	-25.09	-0.000003
100 %		25	836,489,944	58.55	0.000007
100 %		30	836,489,894	108.74	0.000013
100 %		40	836,489,903	100.38	0.000012
100 %		50	836,490,078	-75.28	-0.000009
100 %		60	836,489,953	50.19	0.000006
85 %	3.17	20	836,489,970	33.46	0.000004
115 %	4.26	20	836,490,070	-66.92	-0.000008
BATT. ENDPOINT	2.98	20	836,489,978	25.09	0.000003

9.1 Frequency Stability (AMPS) (Cont'd)



PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)		SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)		FCC ID: AEZSCP-70H	Page 24 of 32

9.2 Frequency Stability (Cellular CDMA)

OPERATING FREQUENCY: 836,490,007 Hz

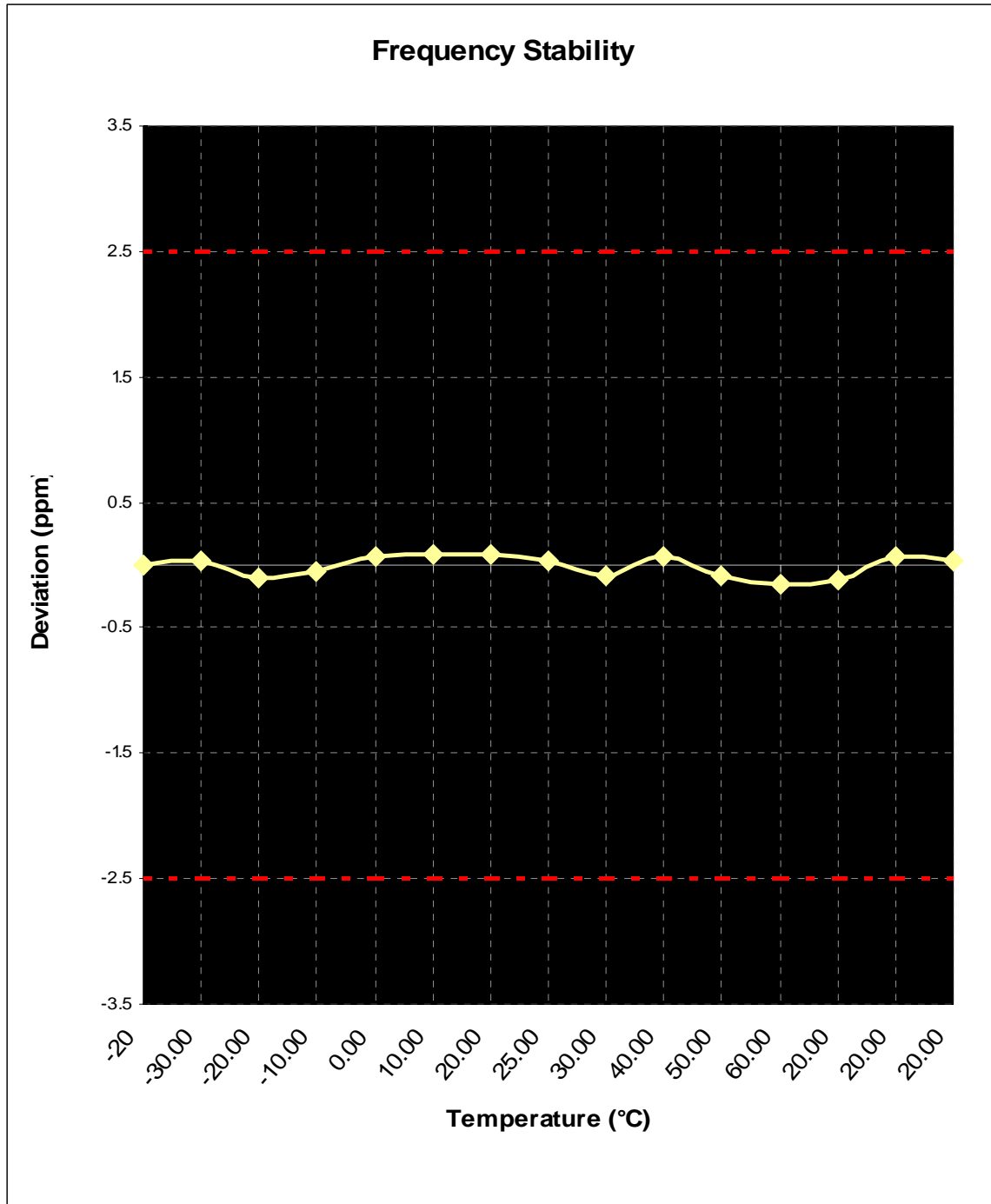
CHANNEL: 383


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)	836,490,007	0.00	0.000000
100 %		-30	836,489,974	33.46	0.000004
100 %		-20	836,490,099	-92.01	-0.000011
100 %		-10	836,490,049	-41.82	-0.000005
100 %		0	836,489,957	50.19	0.000006
100 %		10	836,489,932	75.28	0.000009
100 %		20	836,489,940	66.92	0.000008
100 %		25	836,489,982	25.09	0.000003
100 %		30	836,490,074	-66.92	-0.000008
100 %		40	836,489,948	58.55	0.000007
100 %		50	836,490,082	-75.28	-0.000009
100 %		60	836,490,132	-125.47	-0.000015
85 %	3.17	20	836,490,107	-100.38	-0.000012
115 %	4.26	20	836,489,957	50.19	0.000006
BATT. ENDPOINT	3.01	20	836,489,974	33.46	0.000004

9.2 Frequency Stability (Cellular CDMA) (Cont'd)



PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)		SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)		FCC ID: AEZSCP-70H	Page 26 of 32

9.3 Frequency Stability (PCS CDMA)

OPERATING FREQUENCY: 1,880,000,002 Hz

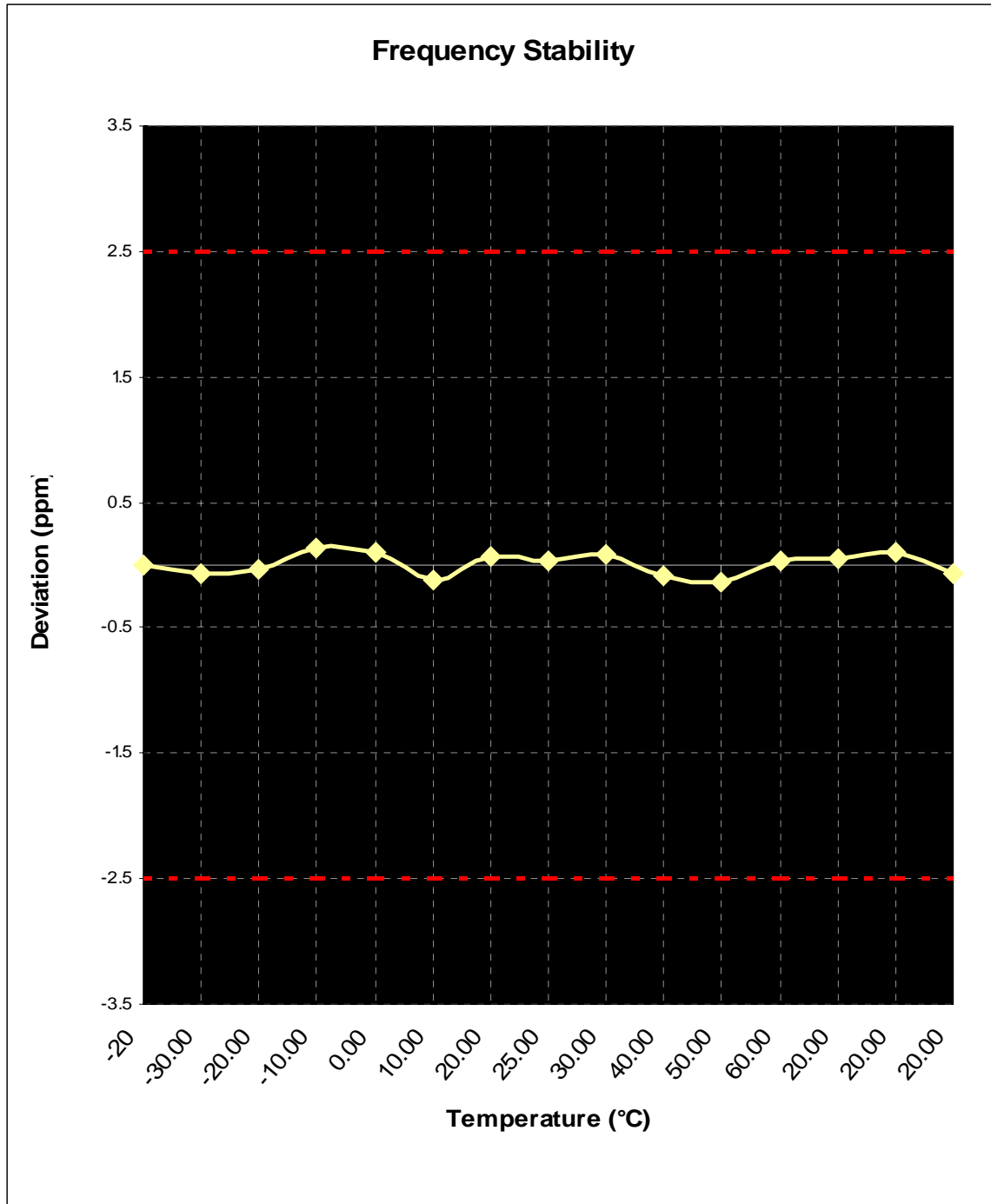
CHANNEL: 600


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)	1,880,000,002	0.00	0.000000
100 %		-30	1,880,000,134	-131.60	-0.000007
100 %		-20	1,880,000,077	-75.20	-0.000004
100 %		-10	1,879,999,758	244.40	0.000013
100 %		0	1,879,999,795	206.80	0.000011
100 %		10	1,880,000,228	-225.60	-0.000012
100 %		20	1,879,999,889	112.80	0.000006
100 %		25	1,879,999,927	75.20	0.000004
100 %		30	1,879,999,833	169.20	0.000009
100 %		40	1,880,000,152	-150.40	-0.000008
100 %		50	1,880,000,265	-263.20	-0.000014
100 %		60	1,879,999,927	75.20	0.000004
85 %	3.15	20	1,879,999,908	94.00	0.000005
115 %	4.26	20	1,879,999,795	206.80	0.000011
BATT. ENDPOINT	3.03	20	1,880,000,115	-112.80	-0.000006


9.3 Frequency Stability (PCS CDMA) (Cont'd)



PCTEST™ PT. 22/24 TRI-MODE TEST REPORT			FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)		FCC ID: AEZSCP-70H	Page 28 of 32

10.0 PLOT(S) OF EMISSIONS


(SEE ATTACHMENT A)

PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 29 of 32

11.0 TEST EQUIPMENT

TYPE	MODEL	CAL. DUE DATE	CAL. INTERVAL	SERIAL No.
Microwave Spectrum Analyzer	Agilent E4448A (3Hz-50GHz)	09/19/06	Annual	US42510244
Spectrum Analyzer/Tracking Generator	HP 8591A (9kHz-1.8GHz)	09/12/06	Annual	3144A02458
Spectrum Analyzer	HP 8566B (100Hz-2.5GHz/2-22GHz)	12/22/06	Annual	3638A08713
PSG Analog Signal Generator	Agilent E8257D (250kHz-20GHz)	03/08/07	Annual	MY45470194
Universal Power Meter	Gigatronix 8651A (50MHz-18GHz)	07/28/07	Annual	1834052
Power Sensor	Gigatronix 80701A	04/11/07	Annual	1833460
Quasi-Peak Adapter	HP 85650A	08/09/06	Annual	2043A00301
Preamplifier	HP 8449B (1-26.5GHz)	12/22/06	Annual	3008A00985
Attenuation/Switch Driver	HP 11713A	12/22/06	Annual	N/A
Preselector	HP 85685A (20Hz-2GHz)	12/22/06	Annual	N/A
6dB Res BW Spec. Analyzer Display	OPT 462	12/22/06	Annual	3701A22204
Ailtech/Eaton Adapter	CCA-7 CISPR/ANSI QP Adapter	12/19/06	Annual	0194-04082
Ailtech/Eaton Receiver	NM 37/57A (30MHz – 1GHz)	06/07/07	Annual	0805-03334
Broadband Amplifier (2)	HP 8447D (0.1 – 1300MHz)	N/A	N/A	2443A01900, 1937A03348
Horn Antenna	EMCO Model 3115 (1-18GHz)	08/25/07	Annual	9704-5182
Horn Antenna	EMCO Model 3116 (18-40GHz)	08/25/07	Annual	9203-2178
Roberts Dipoles	Compliance Design (1 set) A100	08/31/06	Annual	5118
EMCO Dipoles (2)	N/A	05/08/08	Annual	00023951
EMCO LISN (3)	3816/2, 3816/2, 3725/2	10/26/06	Annual	1077, 1079, 2099
10dB Attenuator	HP 8493B	N/A	N/A	N/A
Microwave Cables	MicroCoax (1.0-26.5GHz)	02/26/07	Annual	N/A
Shielded Screen Room	RF Lindgren Model 26-2/2-0	N/A	N/A	6710 (PCT270)
Shielded Semi-Anechoic Chamber	Ray Proof Model S81	N/A	N/A	R2437 (PCT278)
Environmental Chamber	Associated Systems 1025	08/08/06	Annual	PCT285
OATS	N/A	12/31/2006	Tri-annual	N/A

Table 11-1. Test Equipment

PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 30 of 32

12.0 SAMPLE CALCULATIONS

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

Spurious Radiated Emission - PCS Band


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

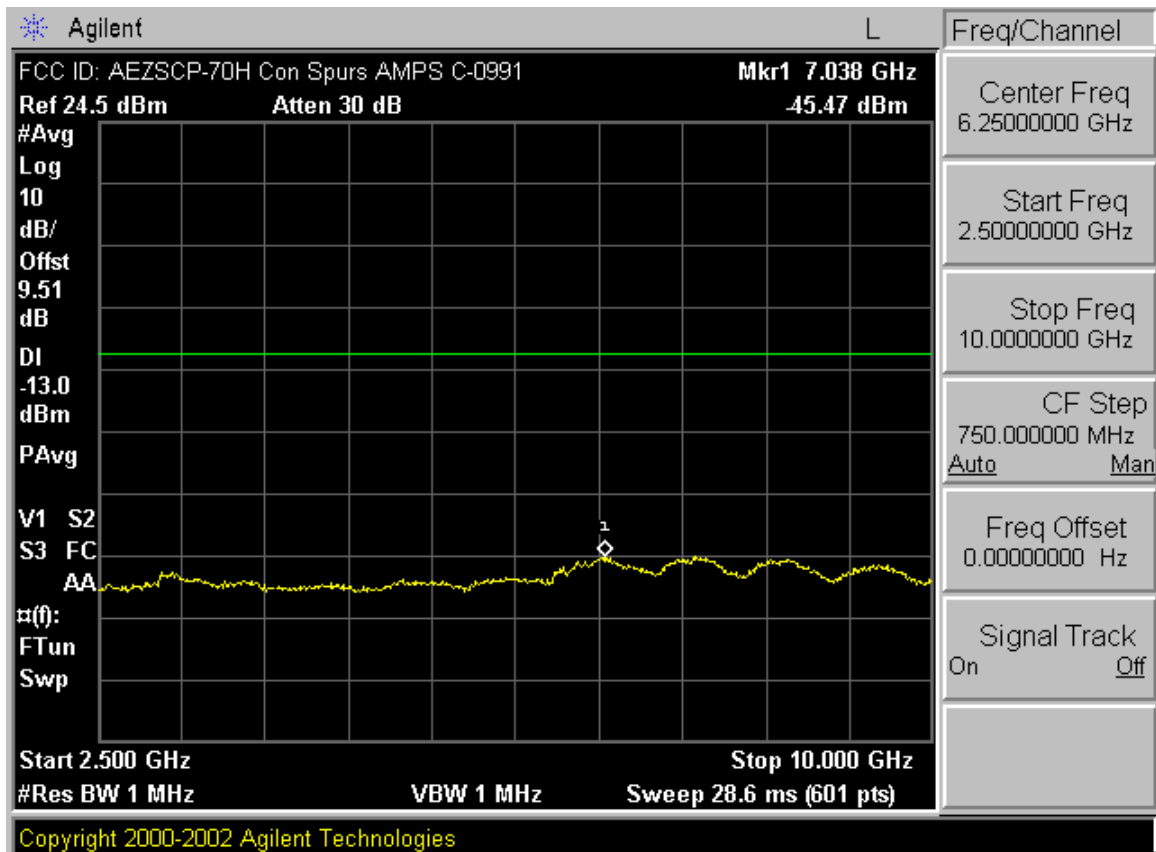
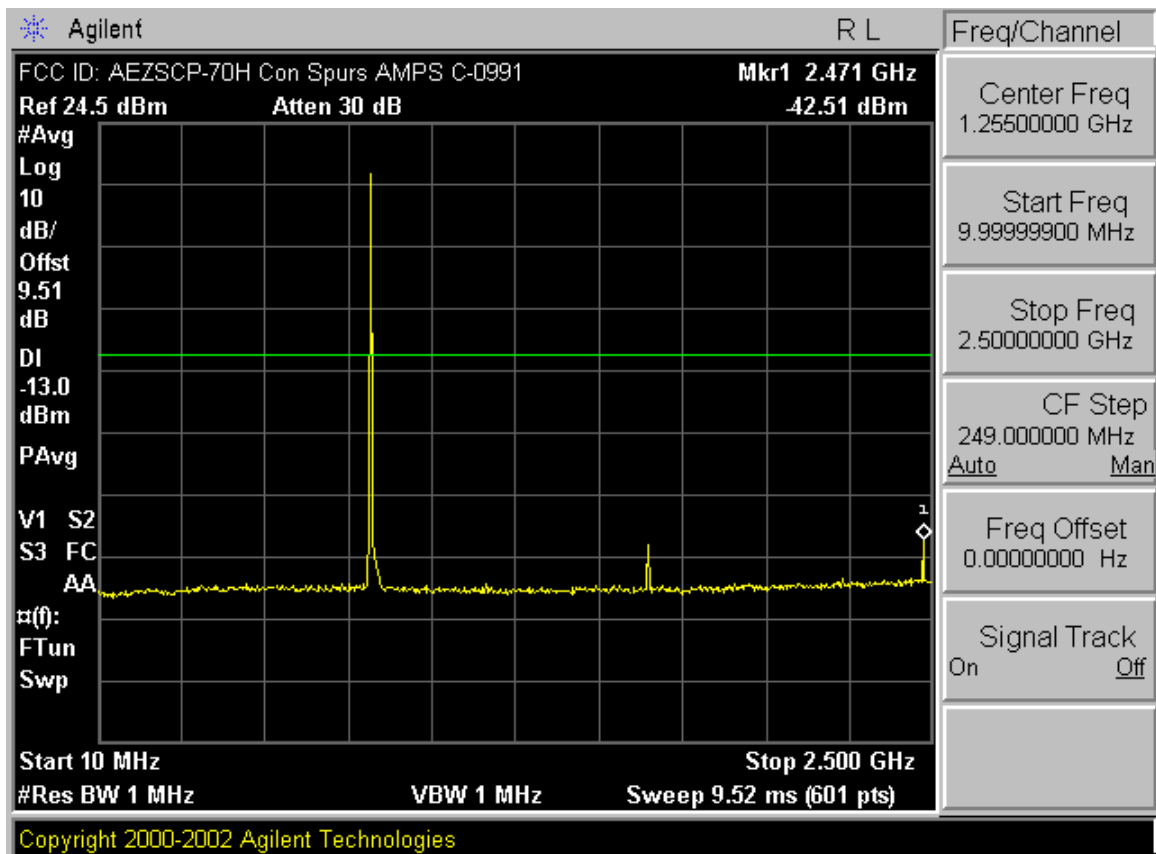
The receive analyzer reading at 3 meters with the EUT on the turntable was -81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0 dBm on the receive analyzer. The loss of the cable between 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 dBm $- (-24.80) = 50.3$ dBc.



PCTEST™ PT. 22/24 TRI-MODE TEST REPORT		FCC MEASUREMENT REPORT (AMPS / CDMA)	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 31 of 32

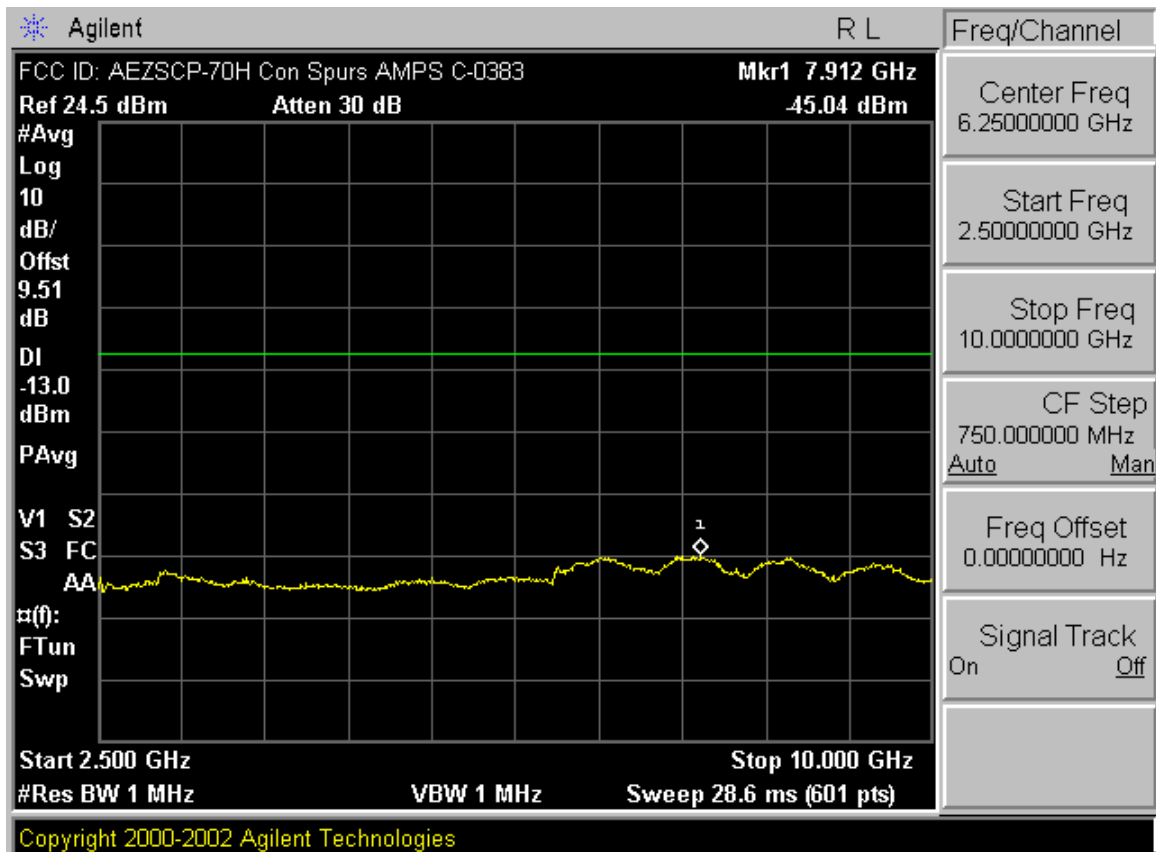
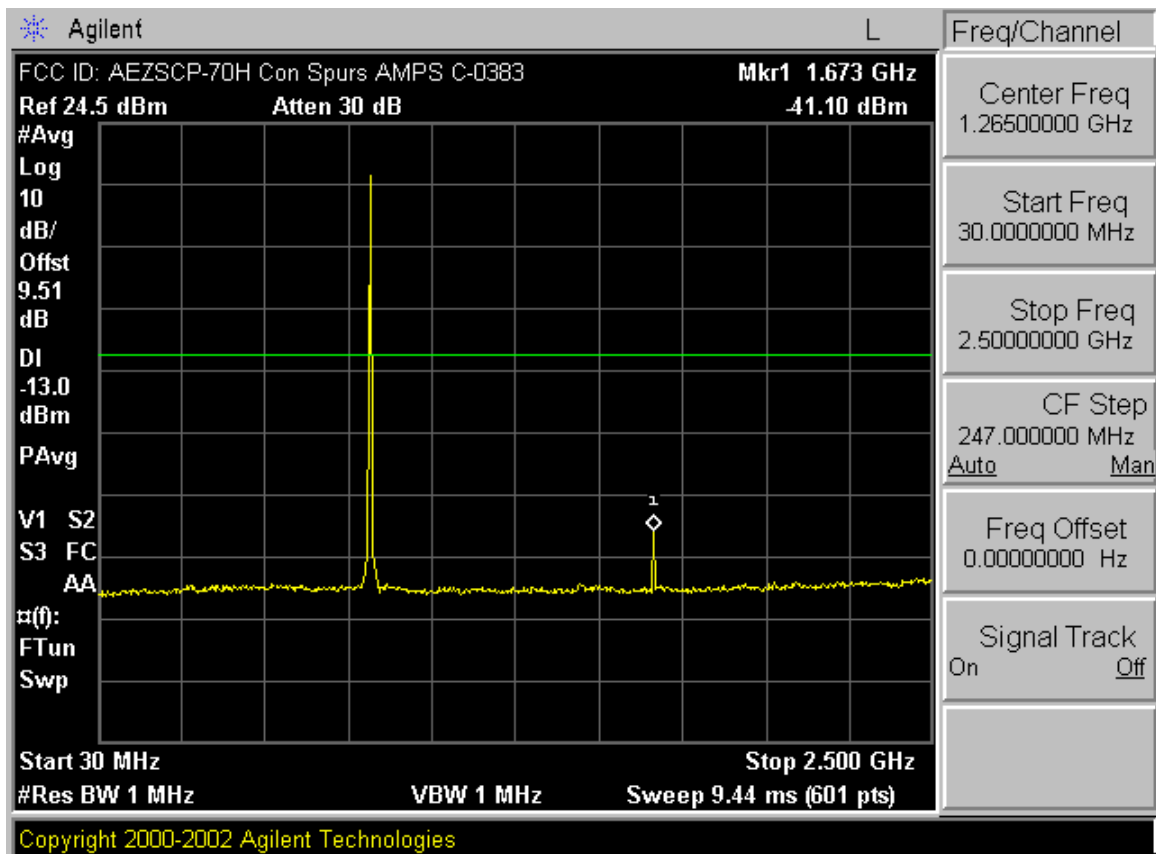
13.0 CONCLUSION



The data collected shows that the Sanyo Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA) FCC ID: AEZSCP-70H complies with all the requirements of Parts 2, 22, and 24 of the FCC rules.

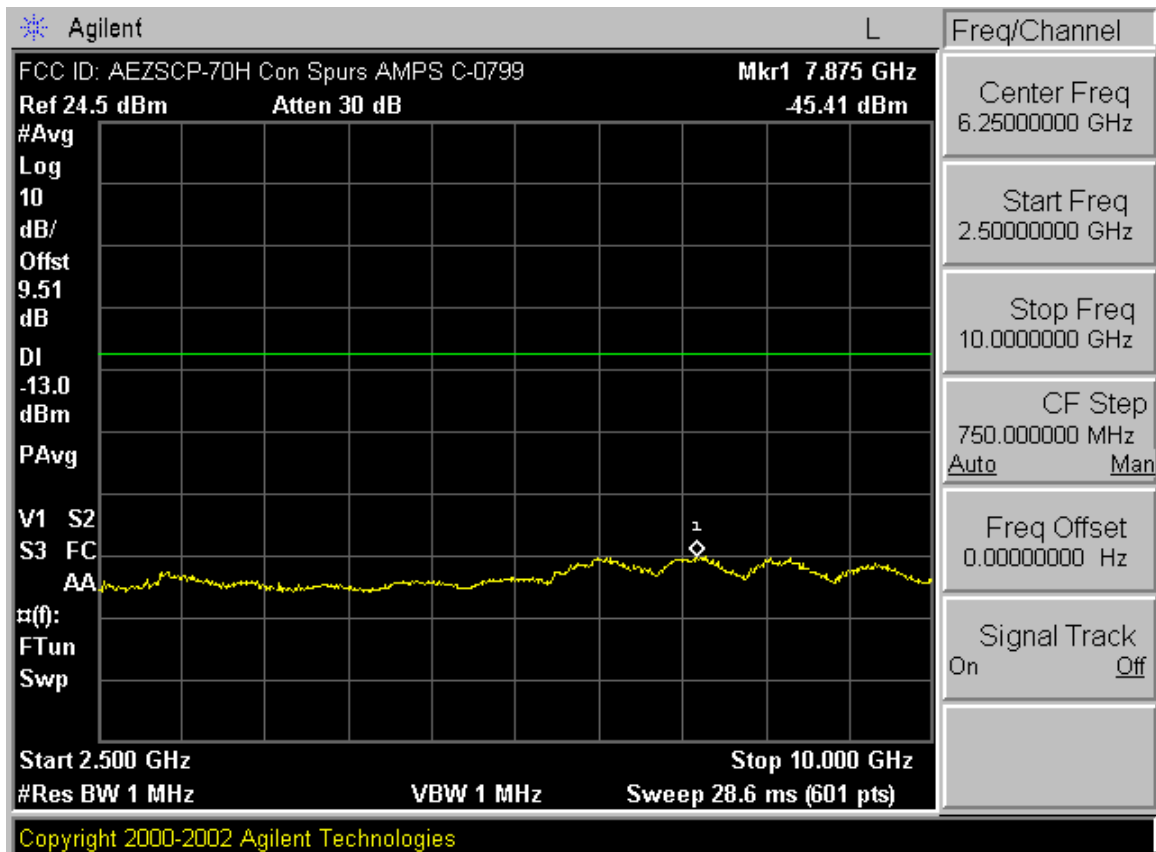
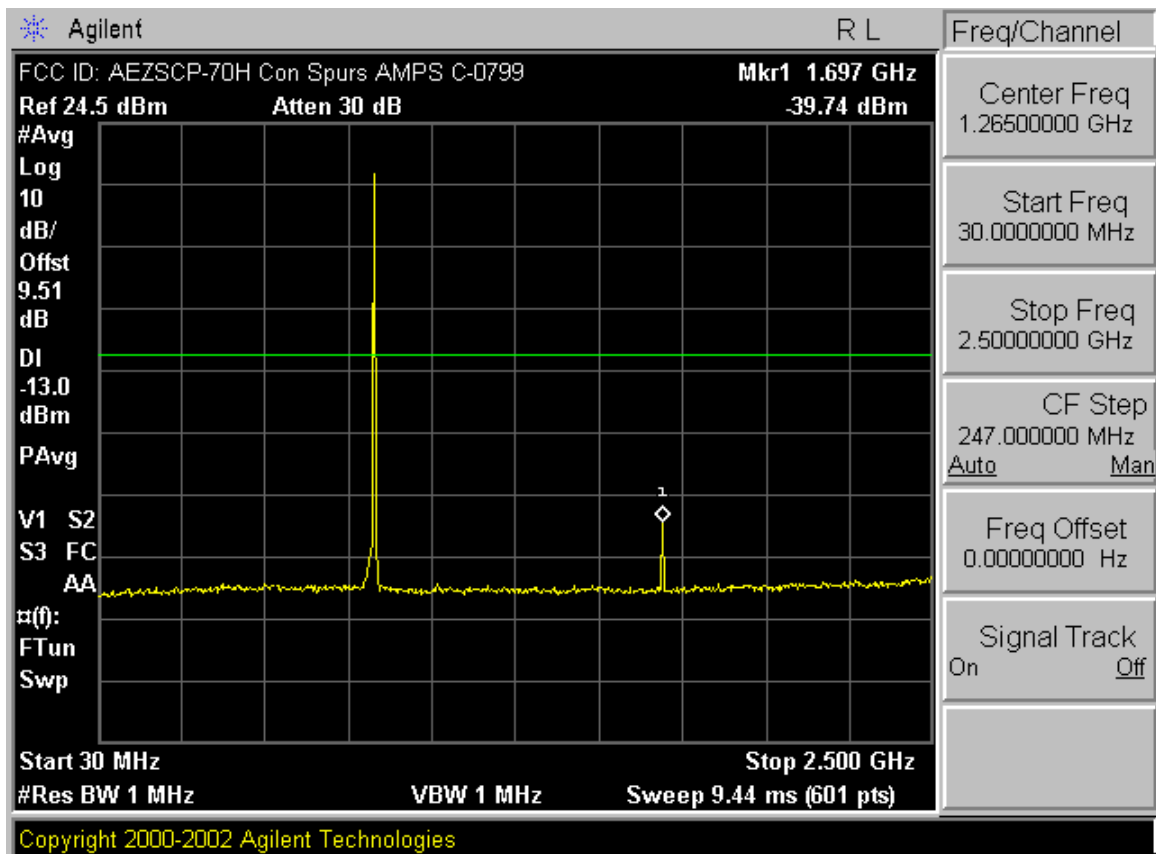
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Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 32 of 32





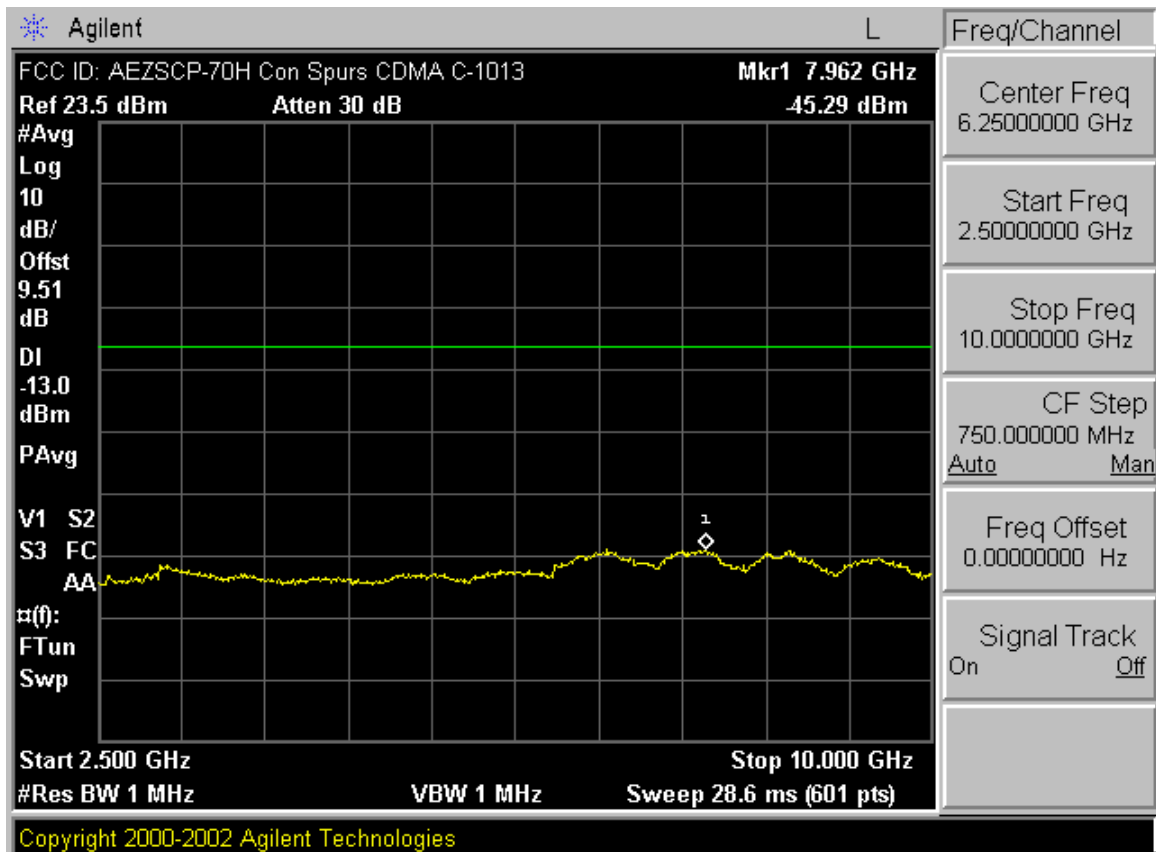
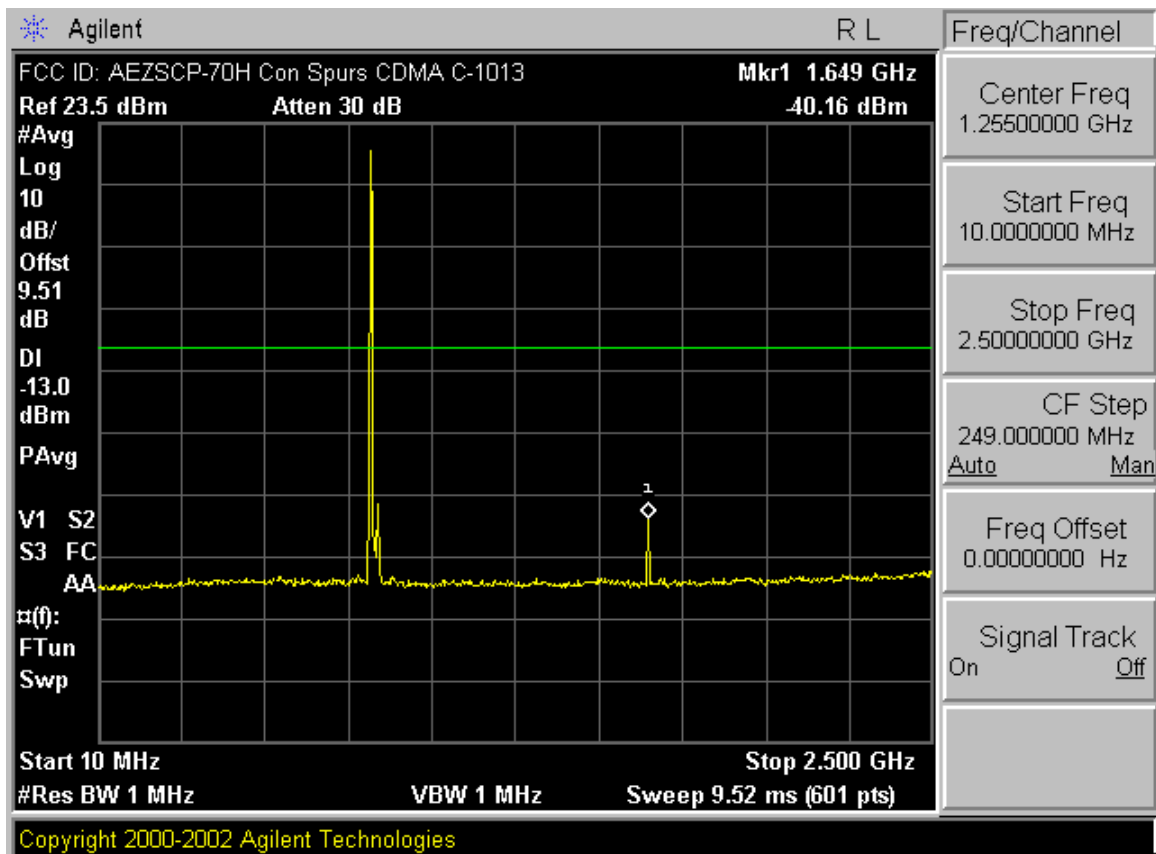
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Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 1 of 29





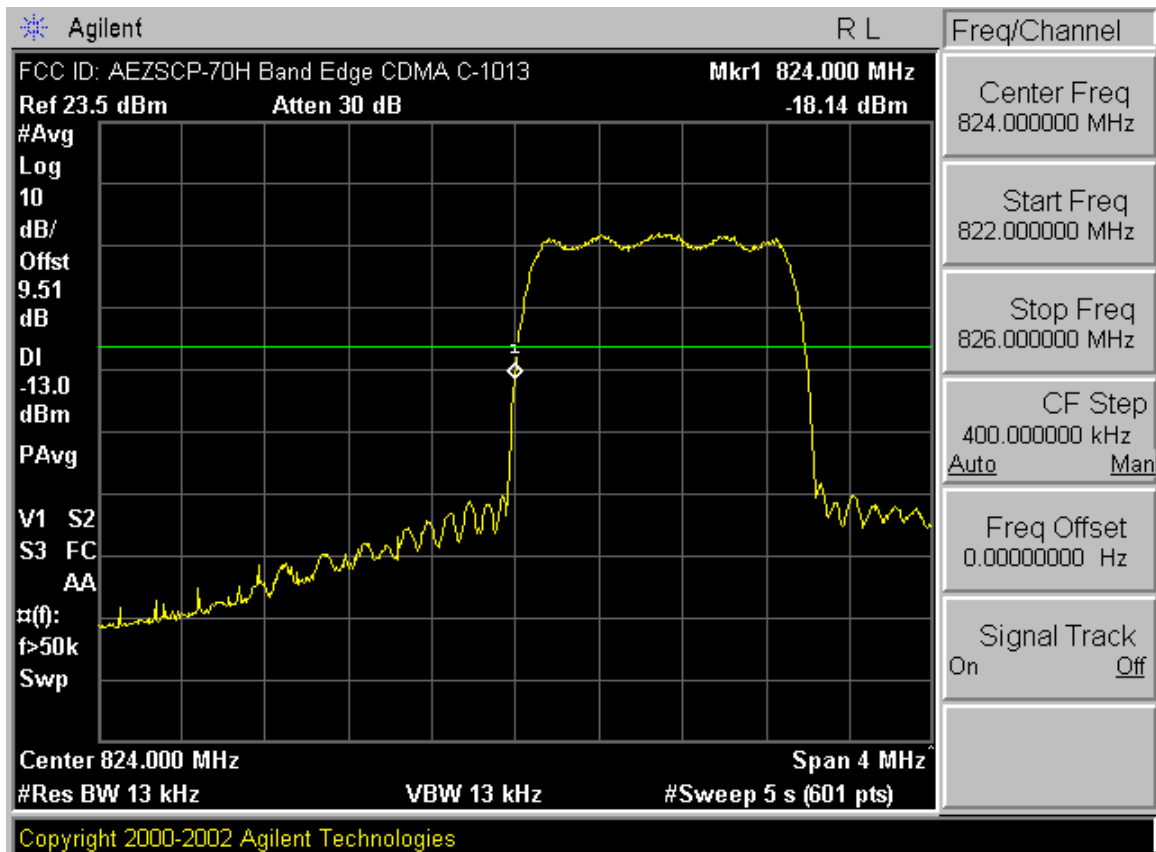
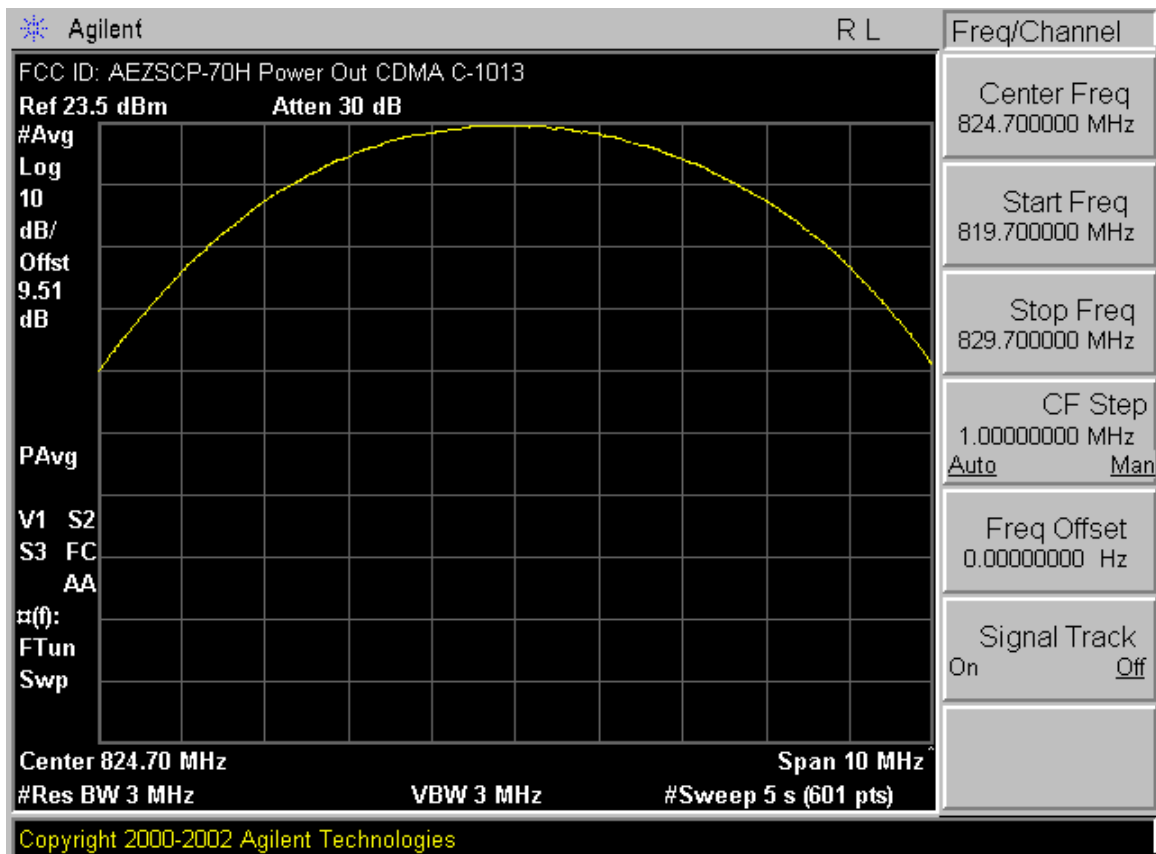
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Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 2 of 29



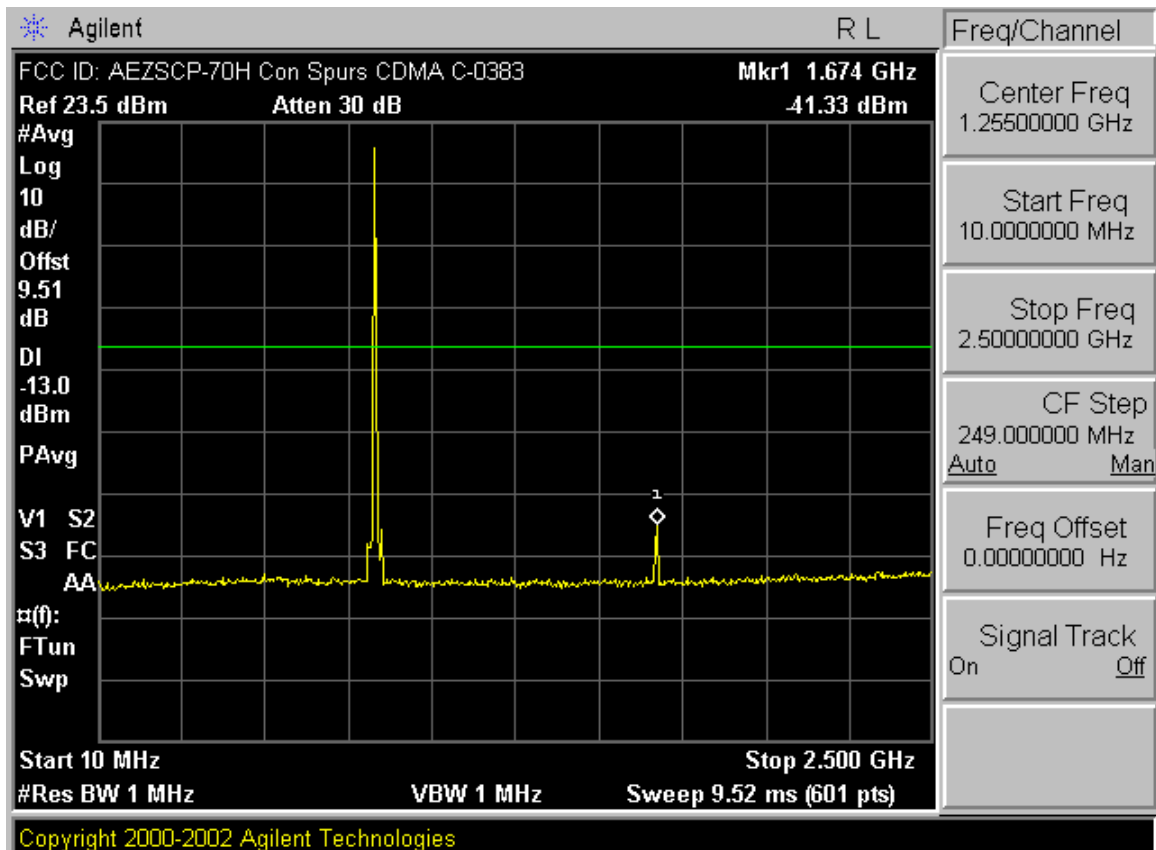
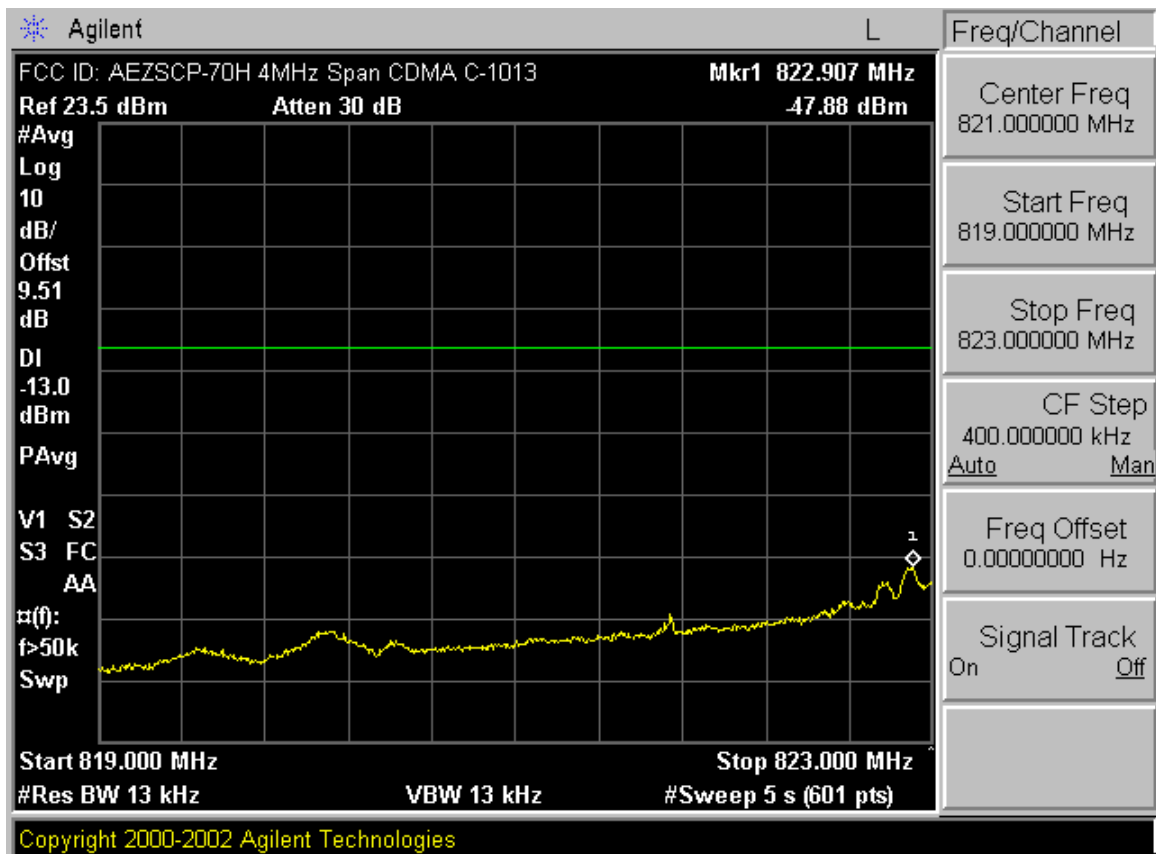
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Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 3 of 29	





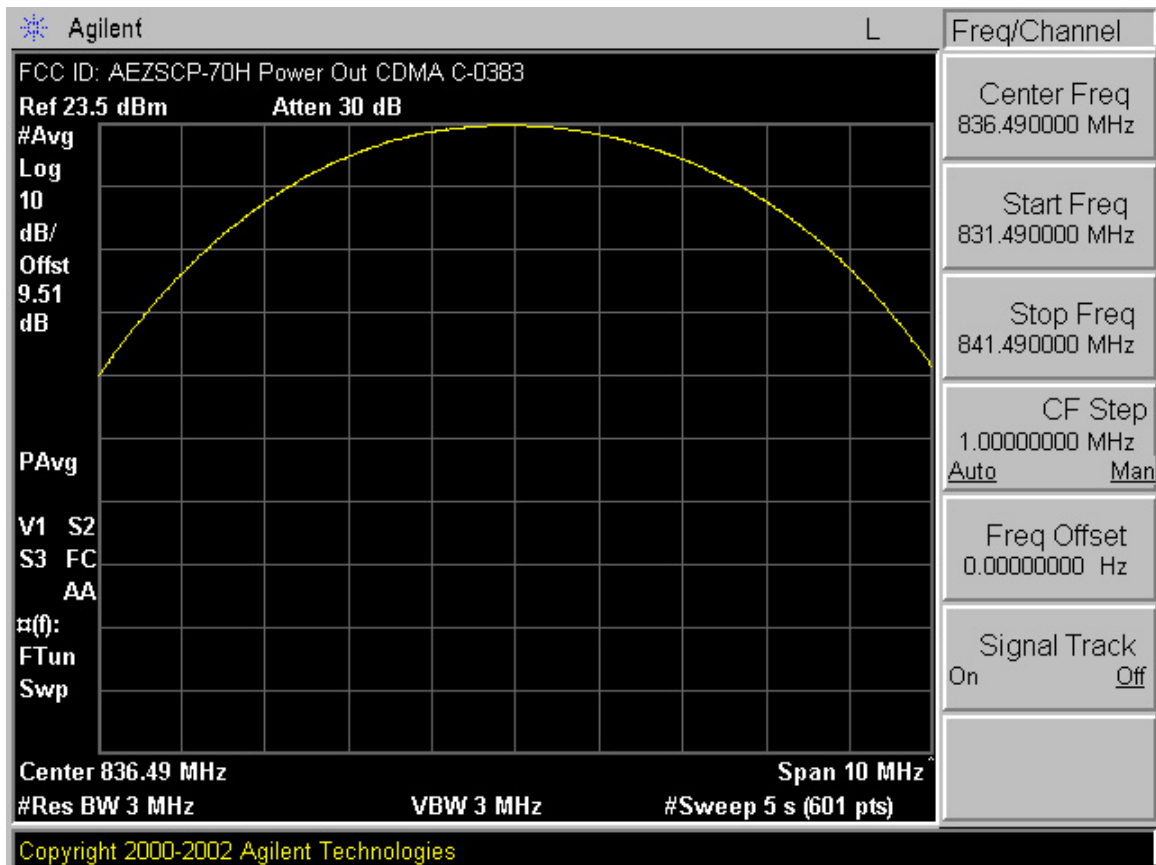
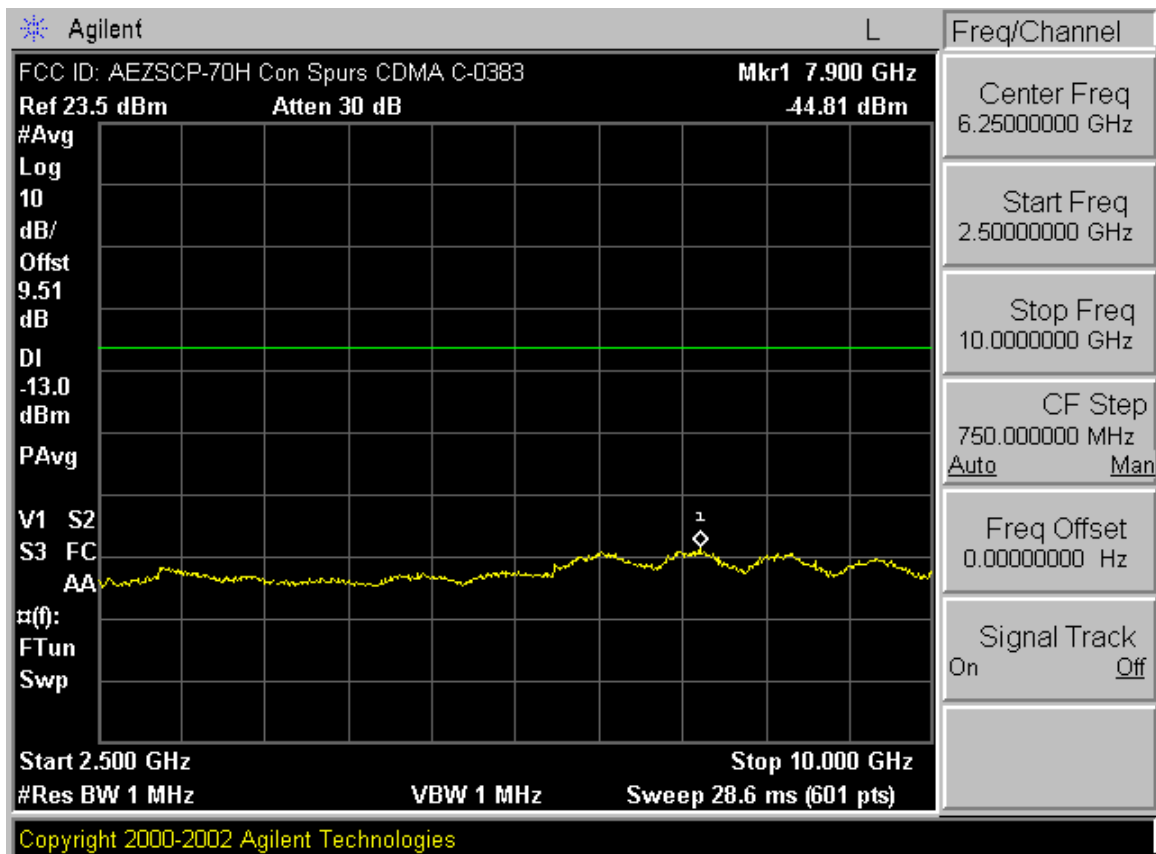
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Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 4 of 29





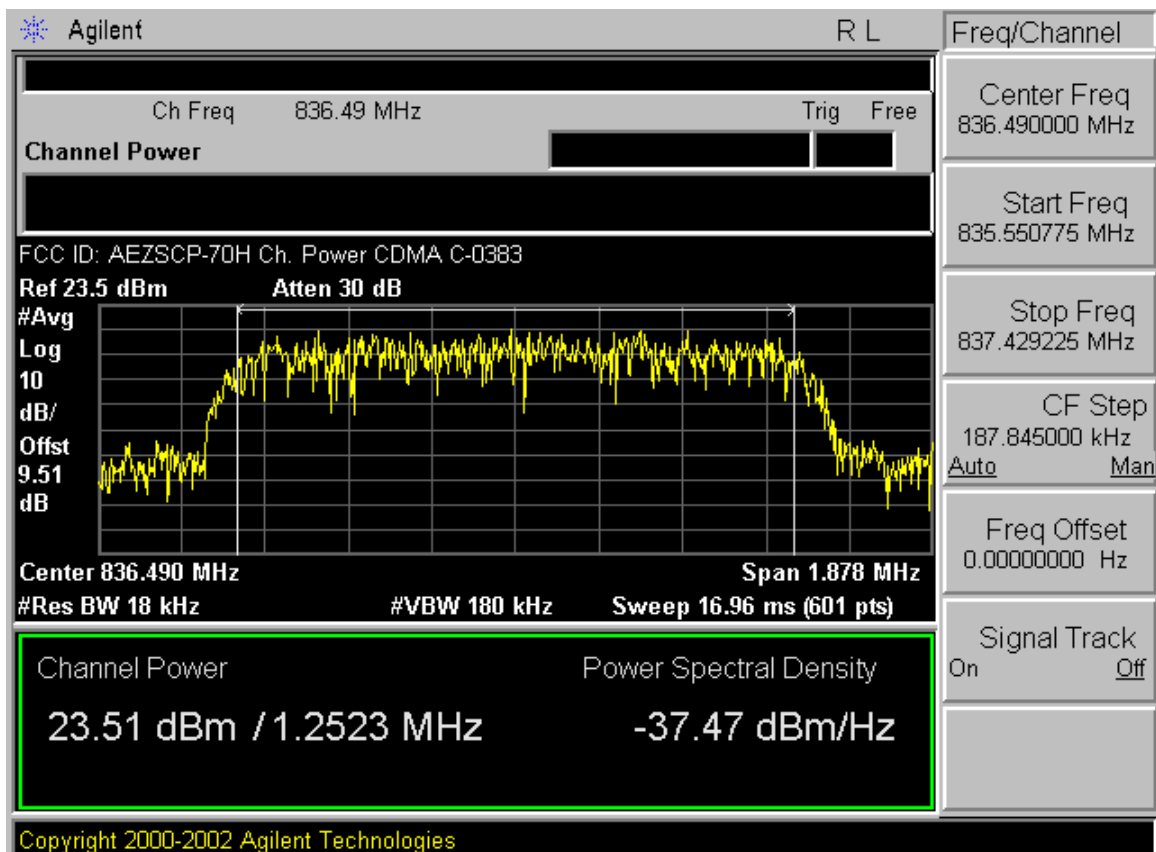
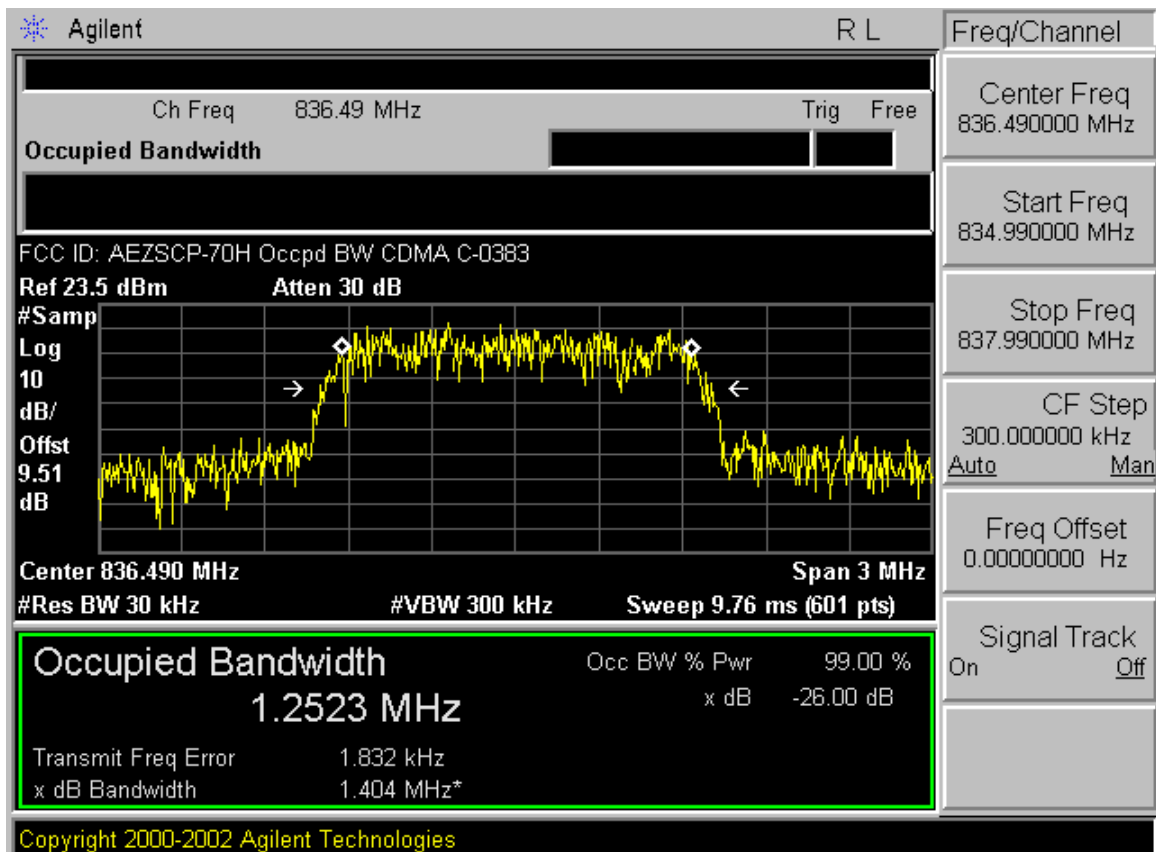
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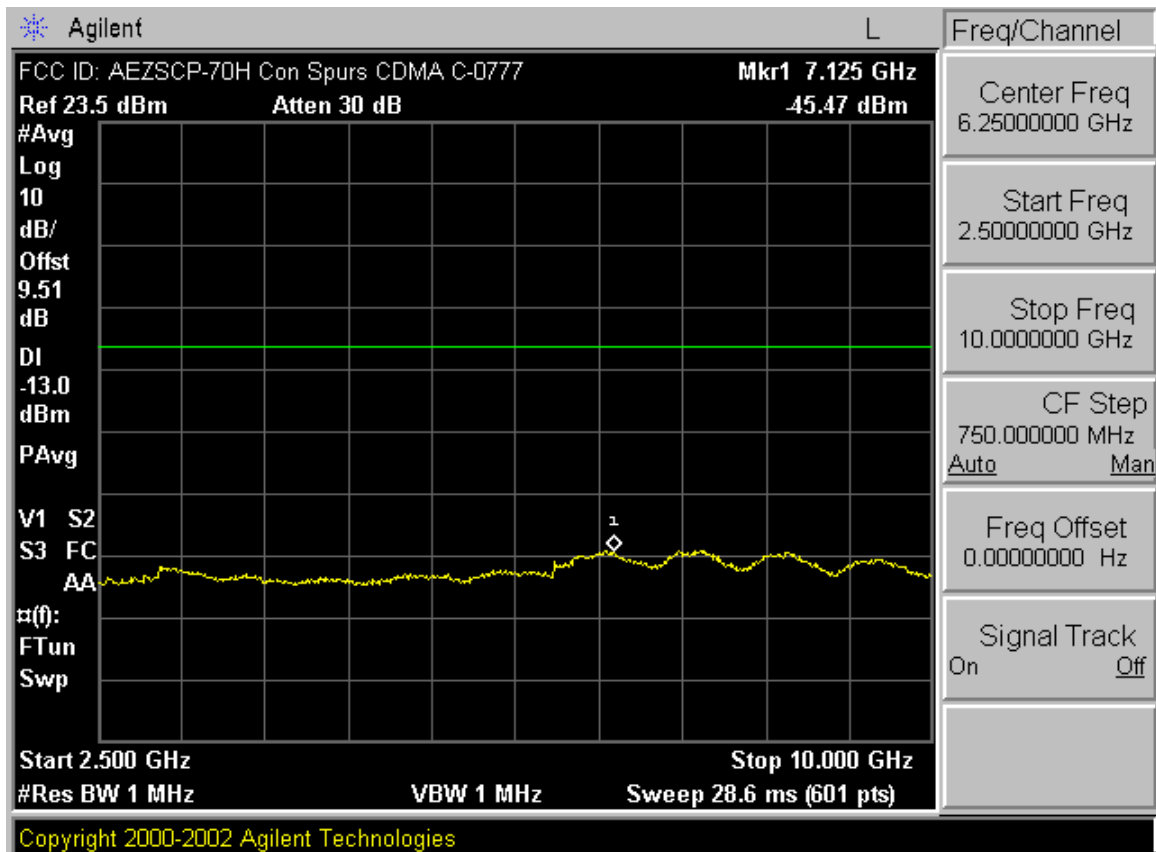
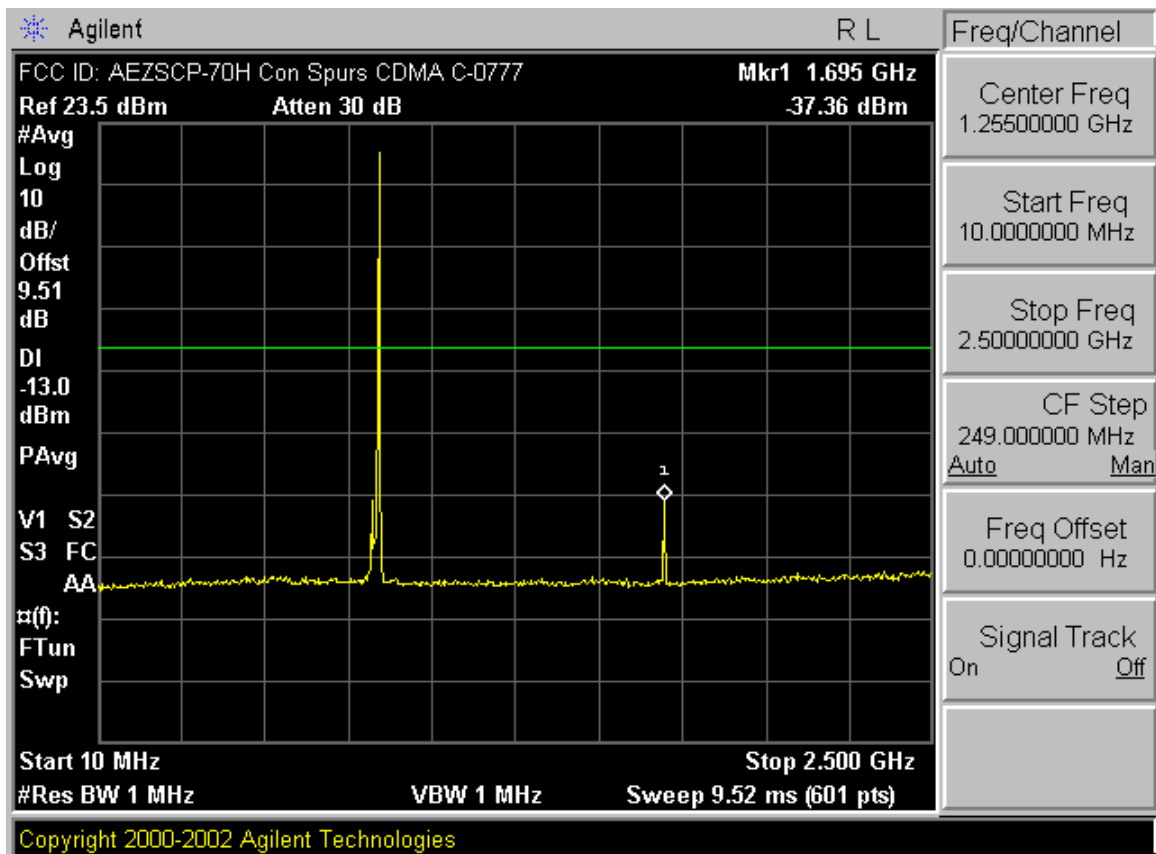
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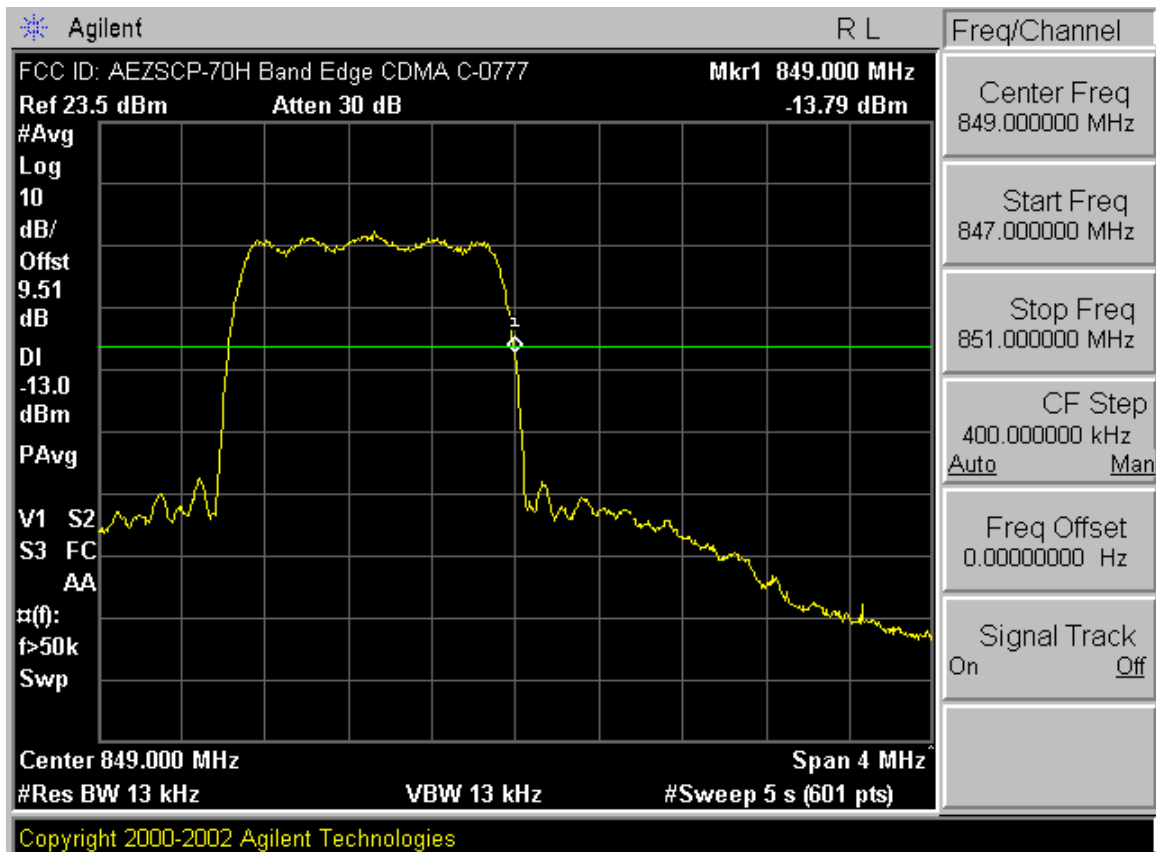
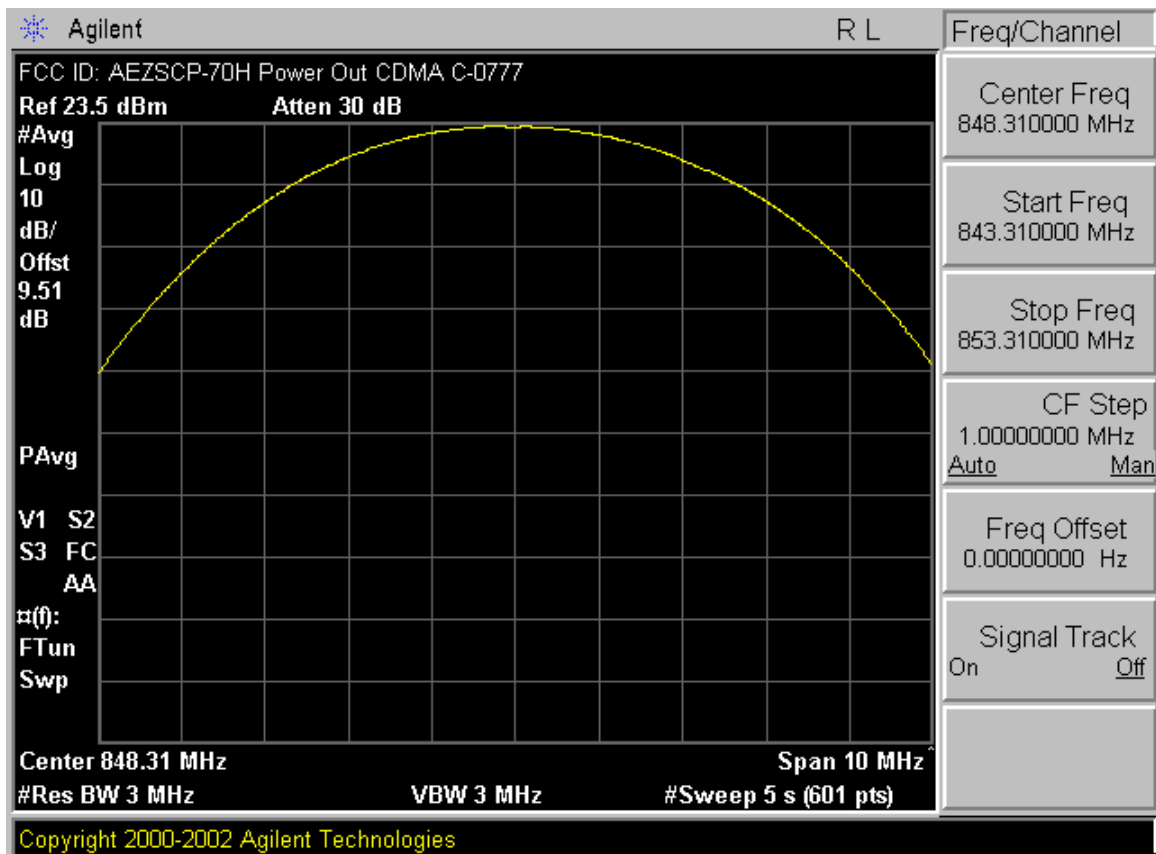
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Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 7 of 29





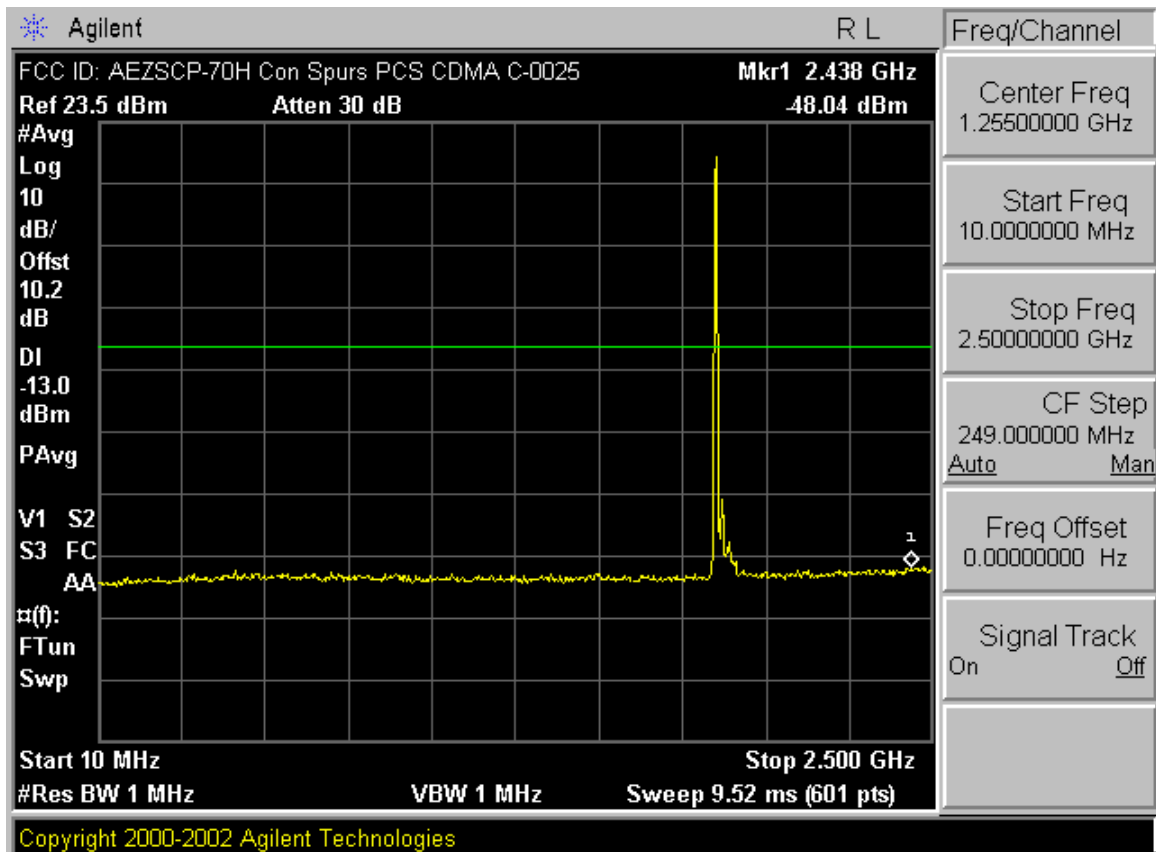
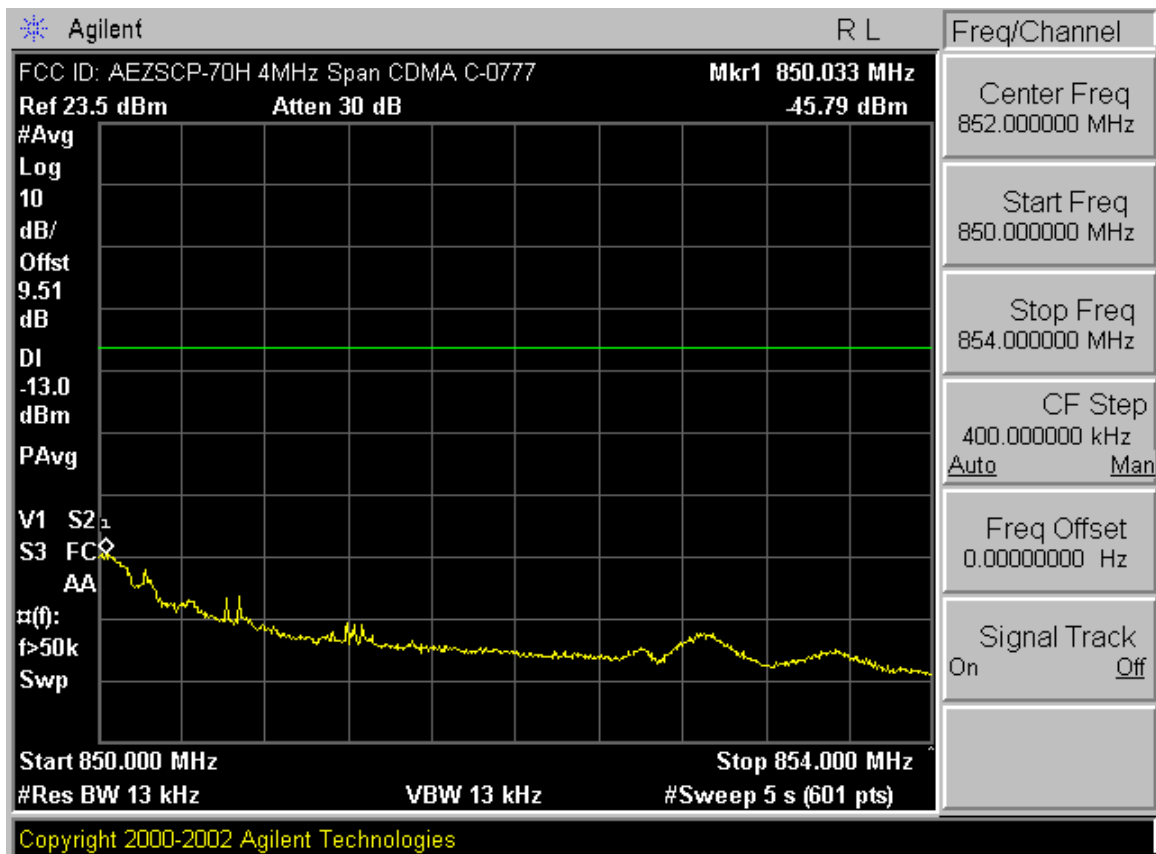
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Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 8 of 29





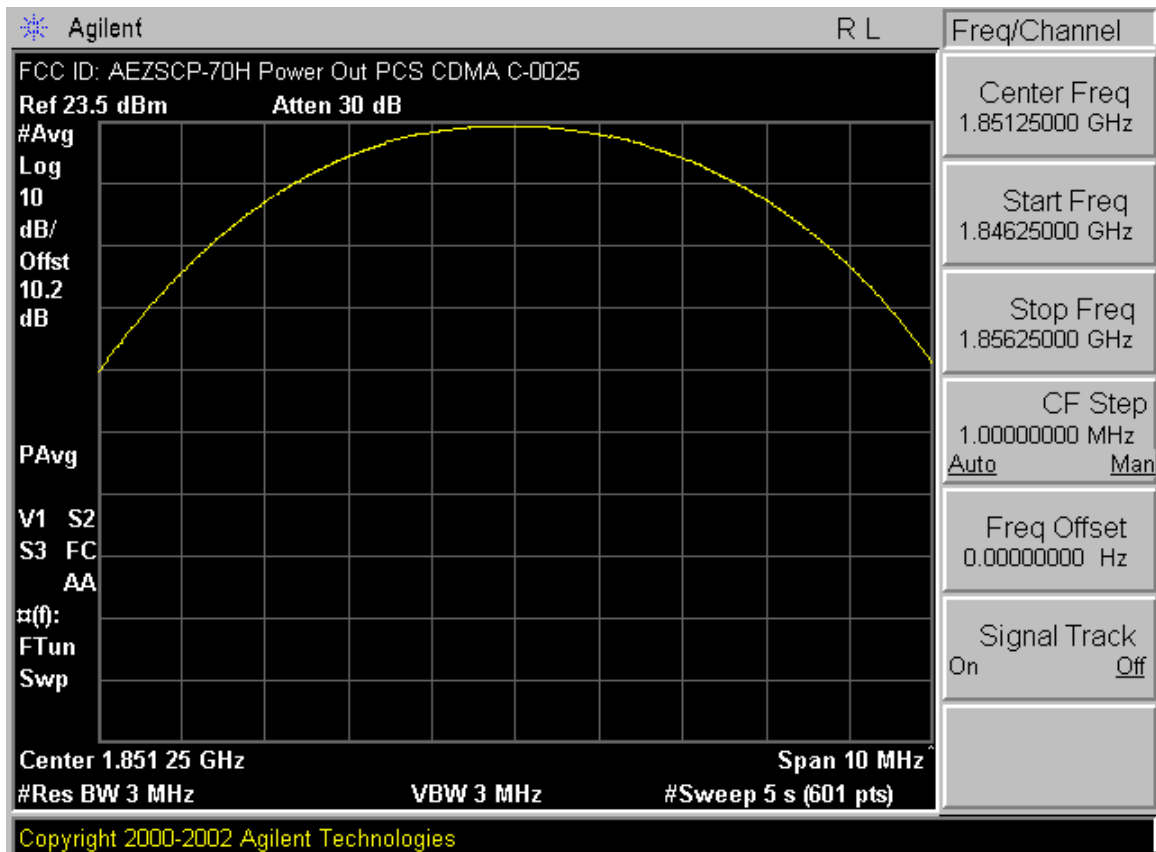
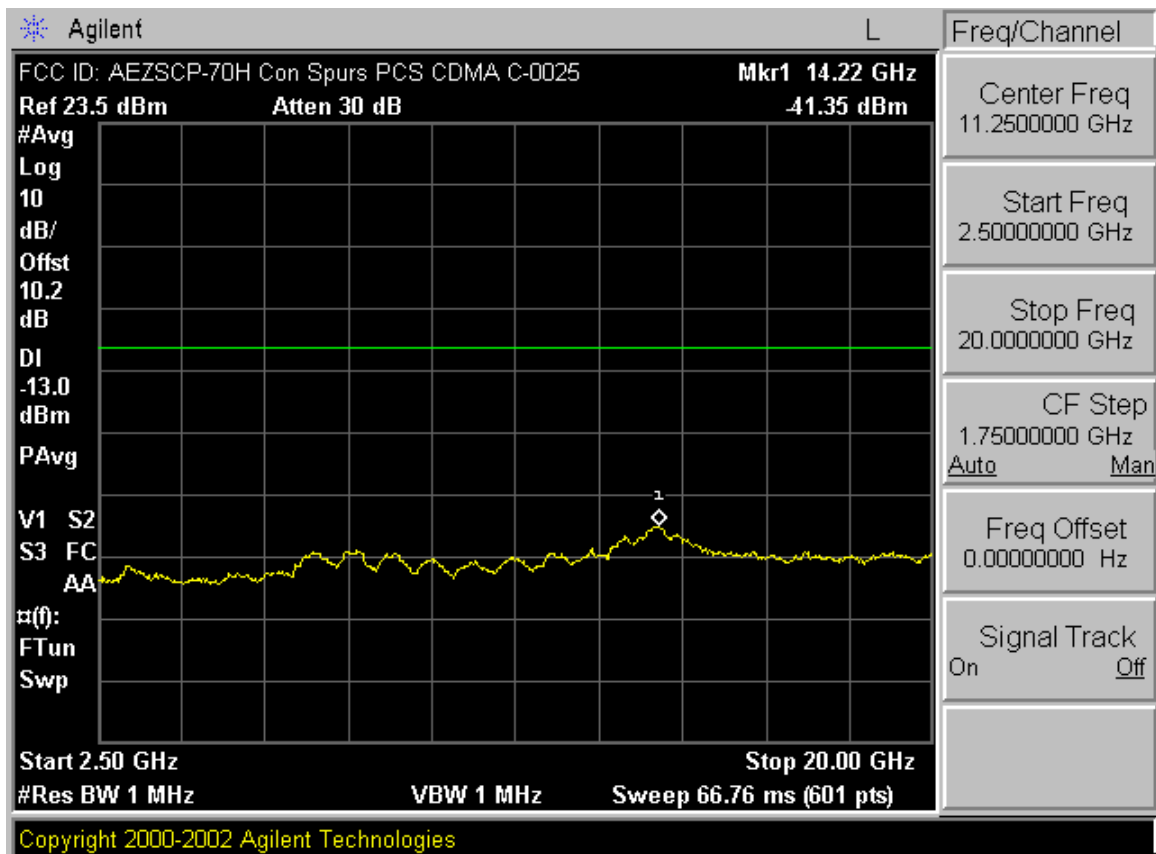
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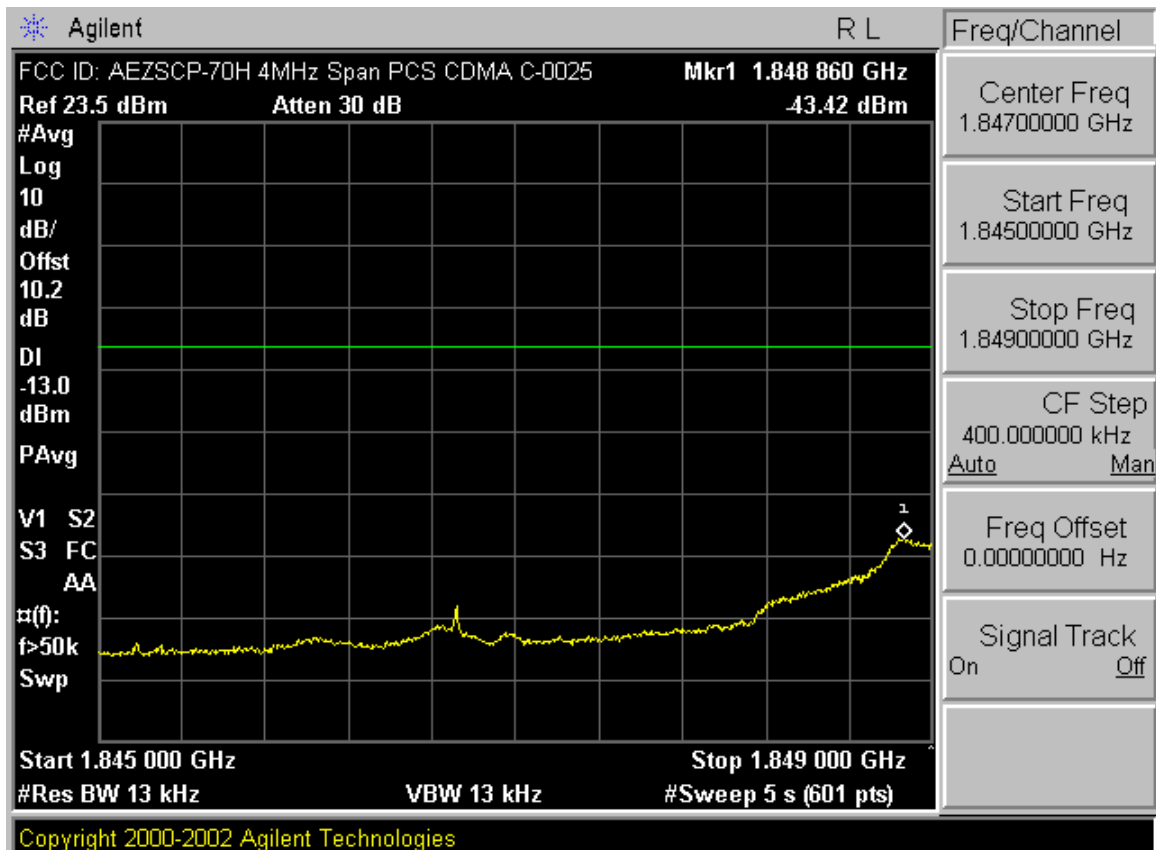
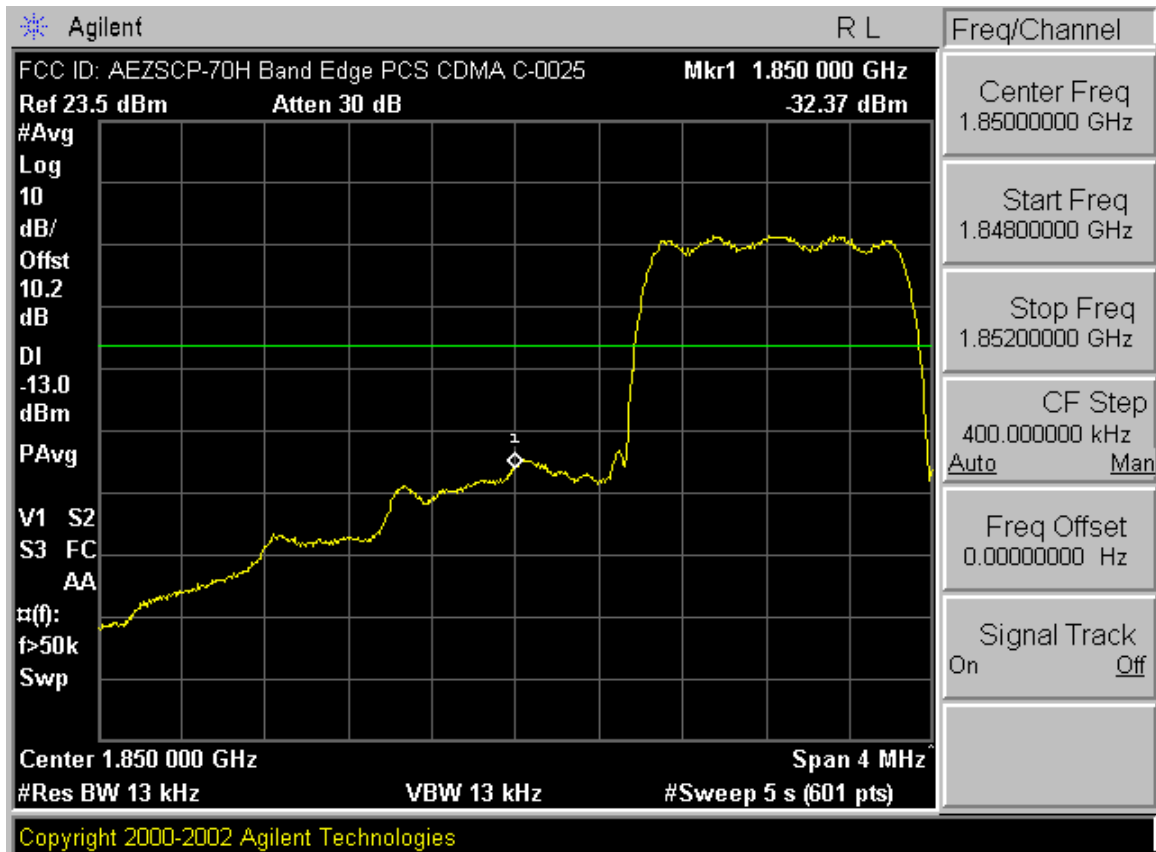
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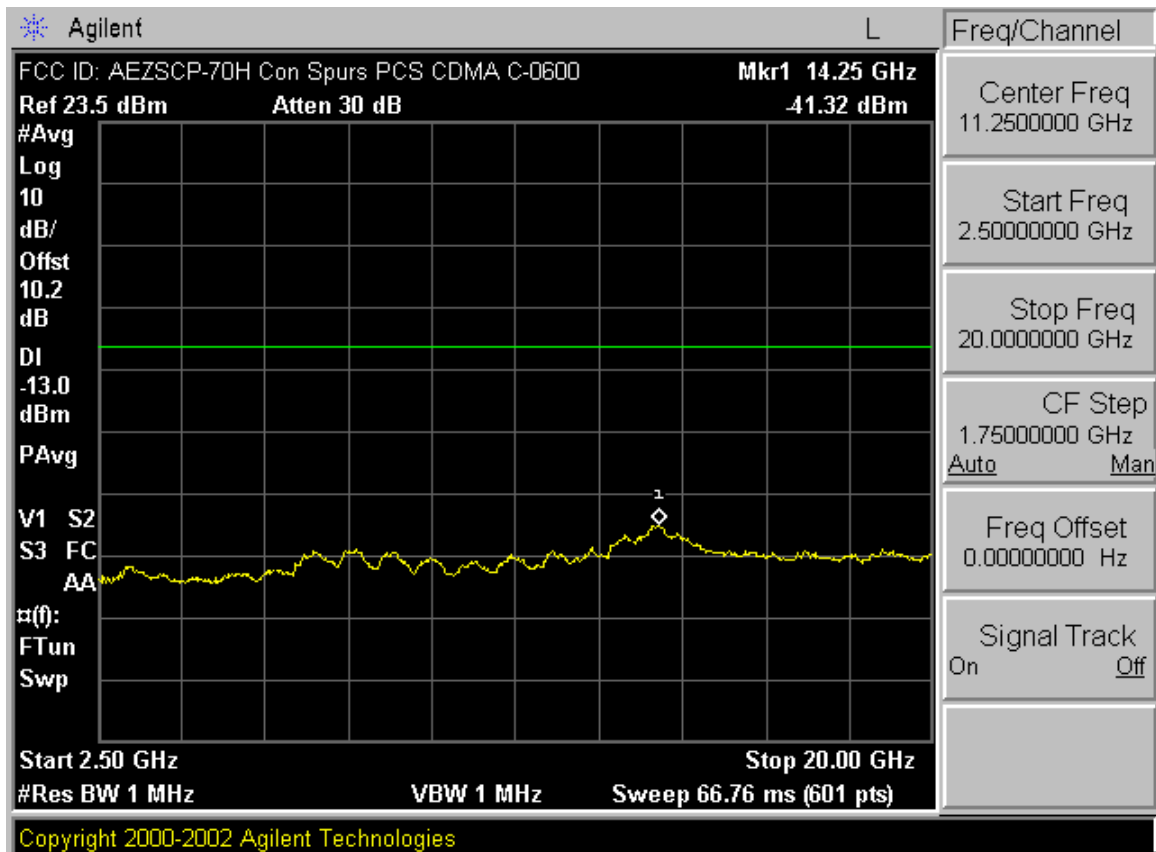
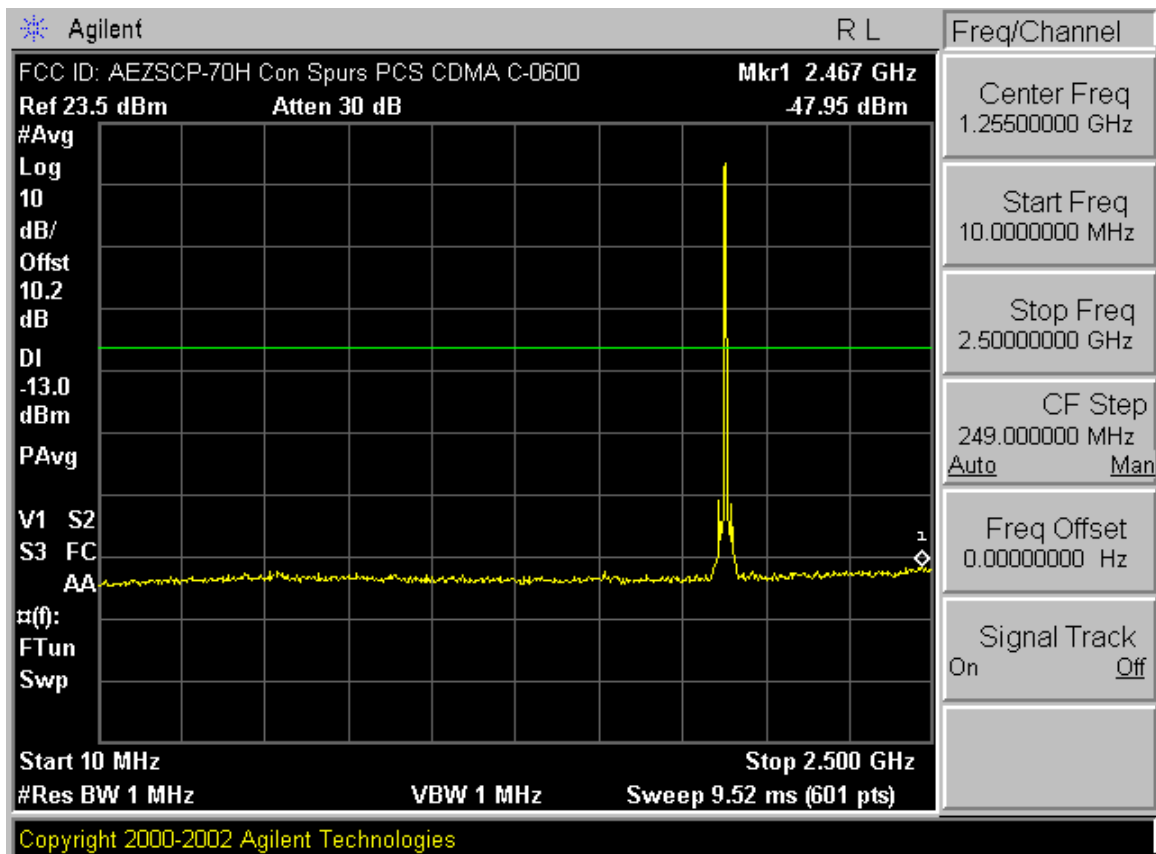
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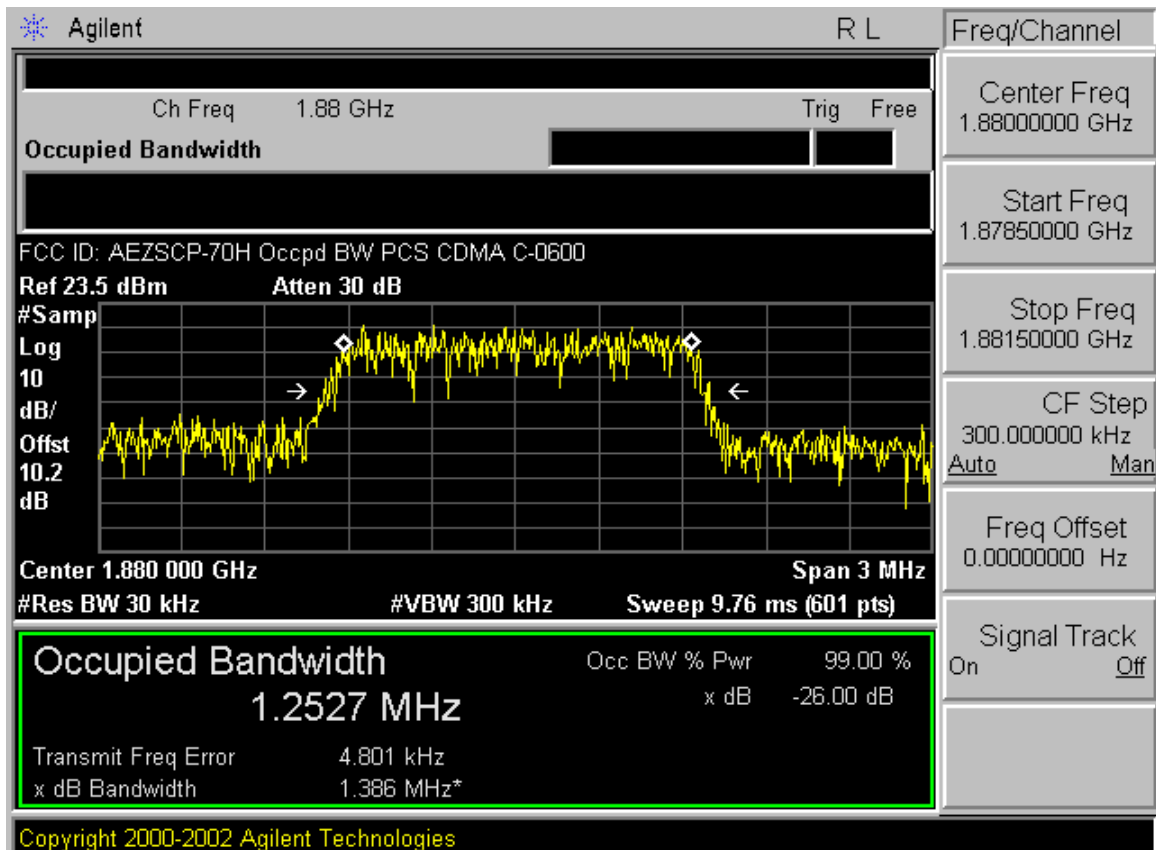
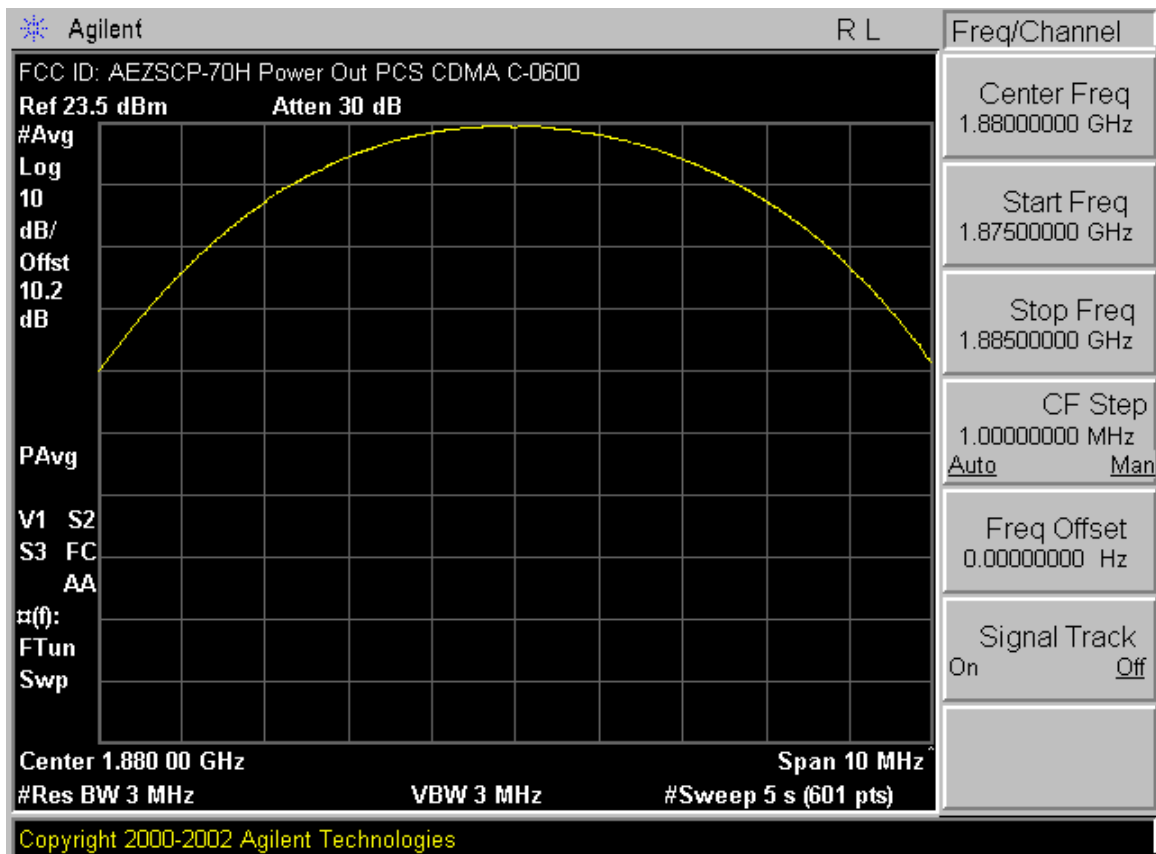
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Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 12 of 29





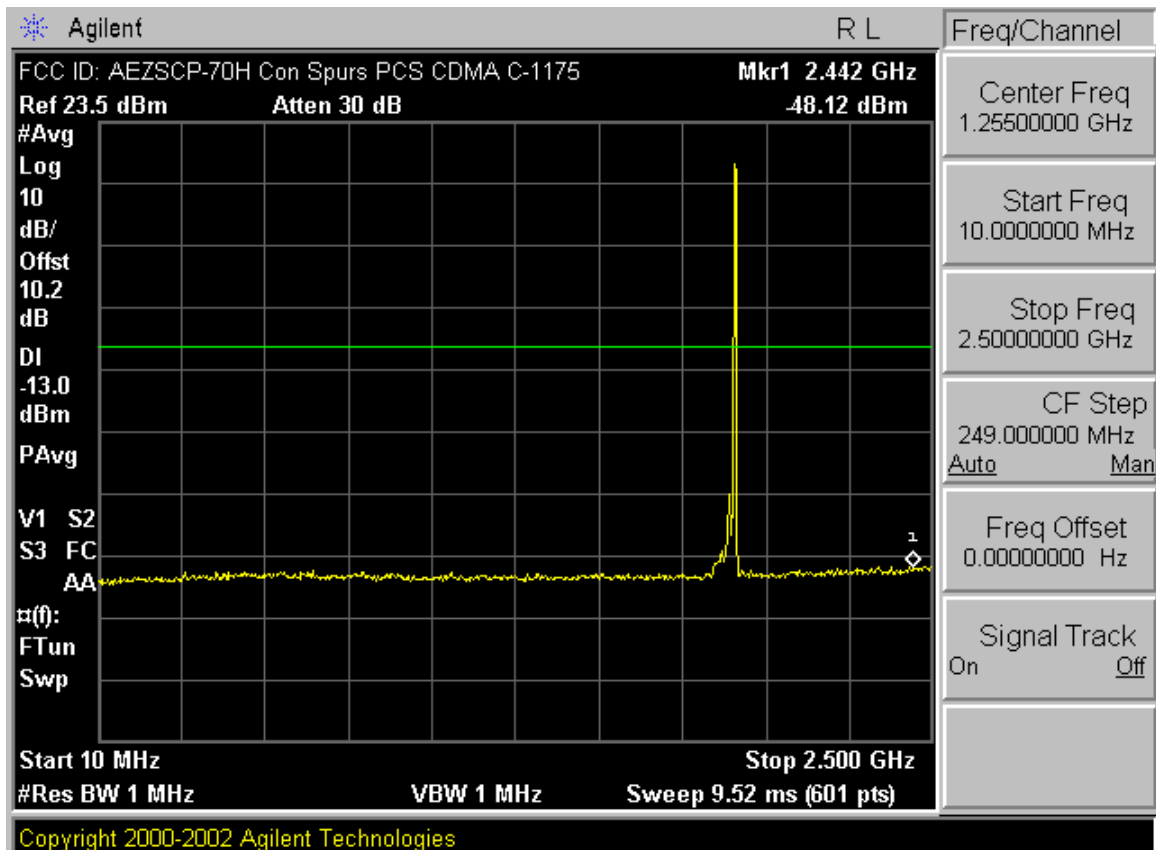
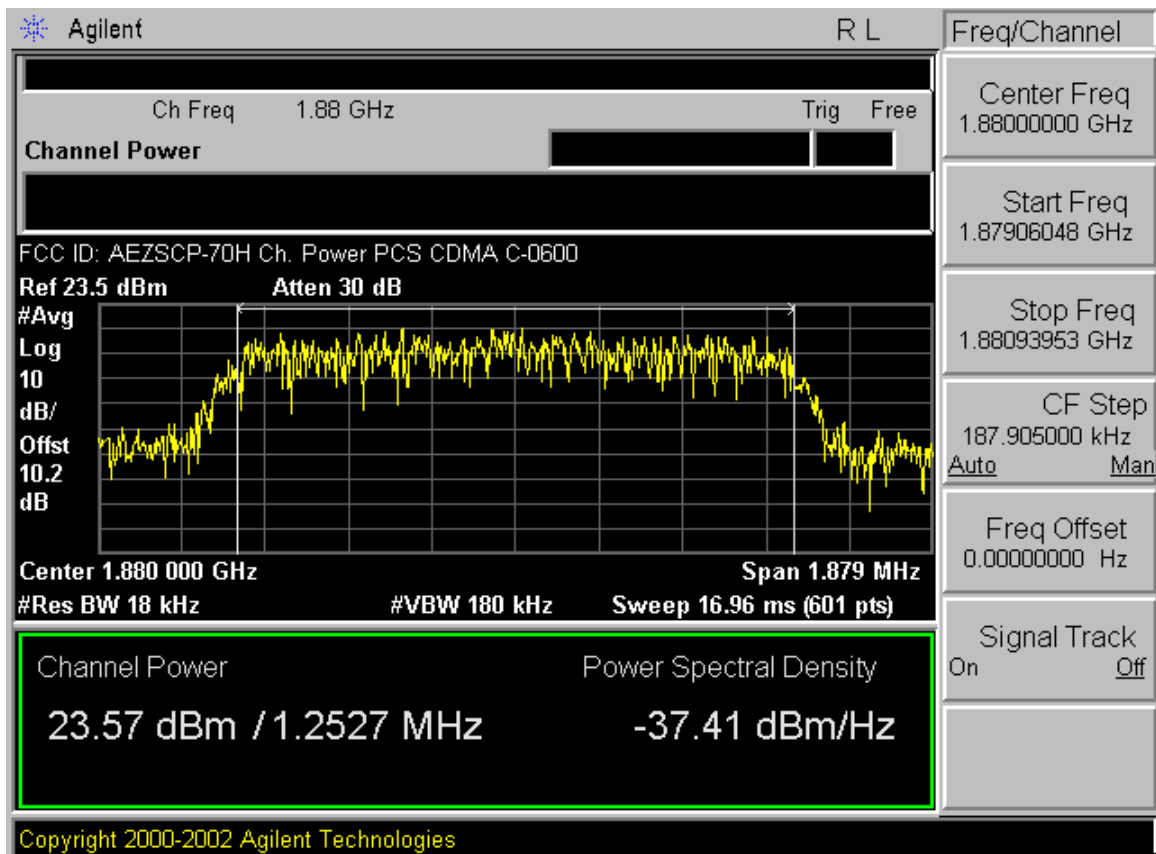
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Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H		Page 13 of 29





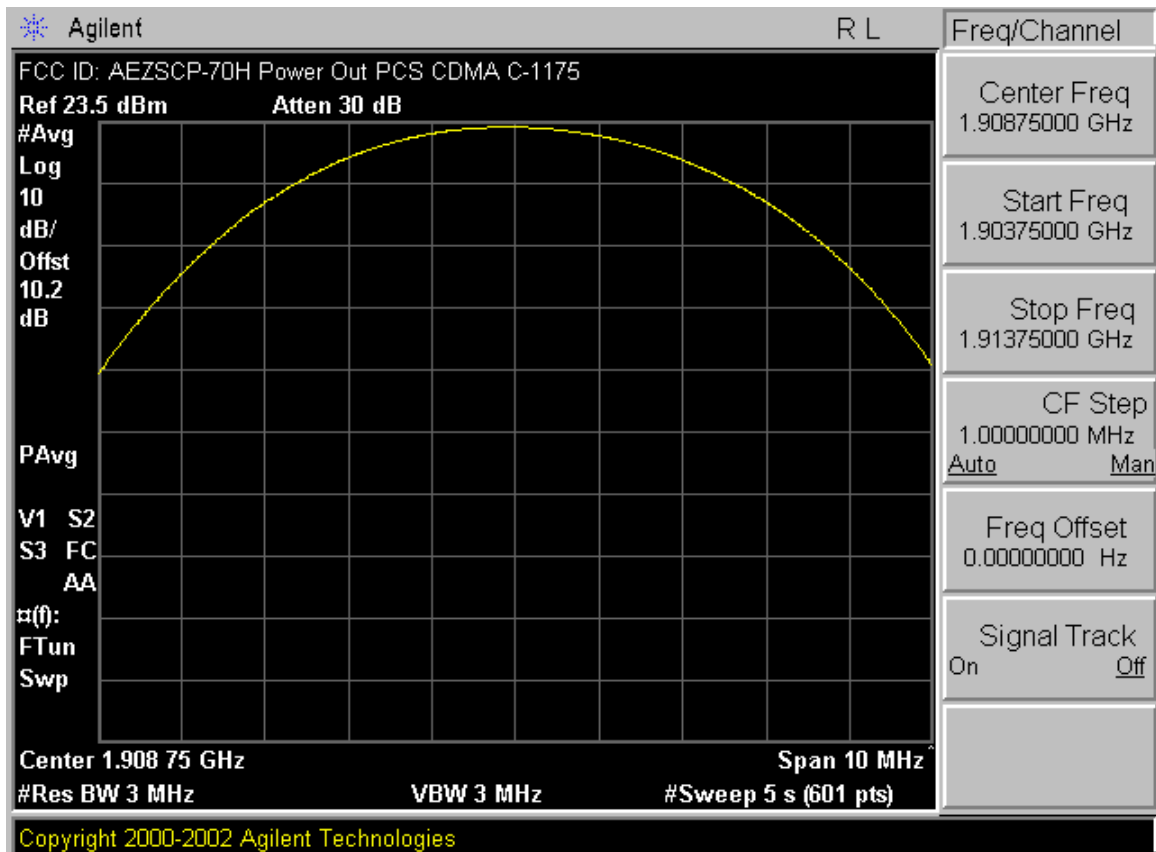
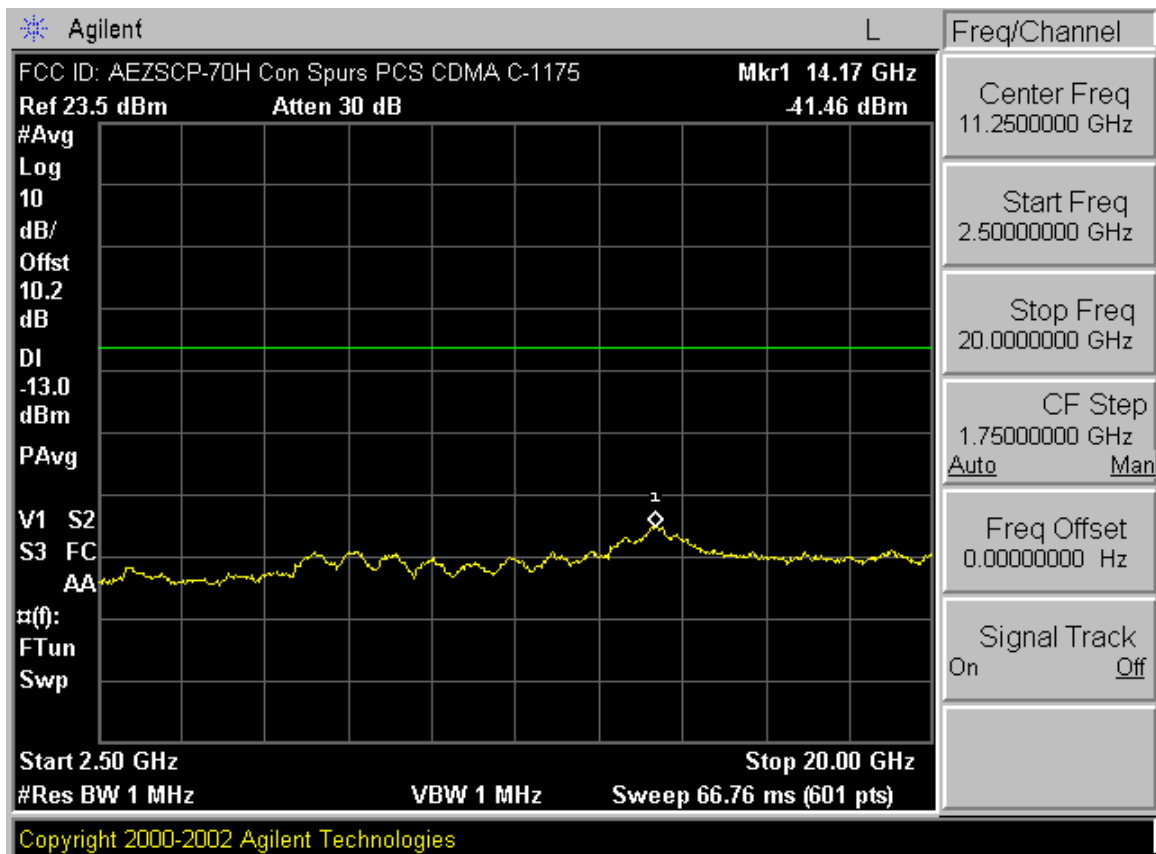
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PCTEST™ PT. 22/24 CONDUCTED PLOTS		CDMA / AMPS MODE		Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 15 of 29





PCTEST™ PT. 22/24 CONDUCTED PLOTS		CDMA / AMPS MODE		Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 16 of 29



PCTEST™ PT. 22/24 CONDUCTED PLOTS		CDMA / AMPS MODE		Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 17 of 29



PCTEST™ PT. 22/24 CONDUCTED PLOTS		CDMA / AMPS MODE		Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 18 of 29

PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:AEZSCP-70H

SANYO

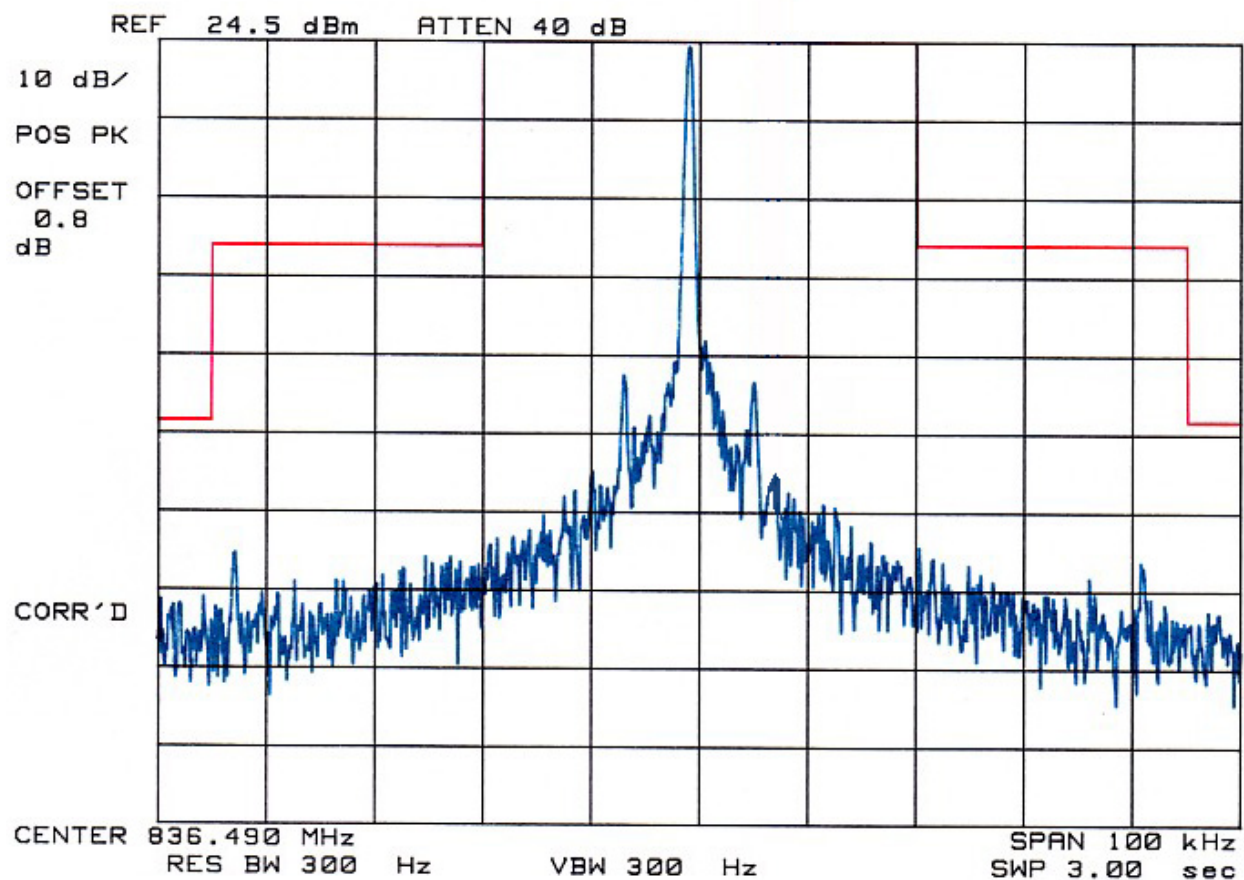
Tri-Mode Phone



FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 24.5 dBm

Test Mode:Unmodulated Signal



PCTEST™ PT. 22/24 CONDUCTED PLOTS		CDMA / AMPS MODE		Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 19 of 29

PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:AEZSCP-70H

SANYO

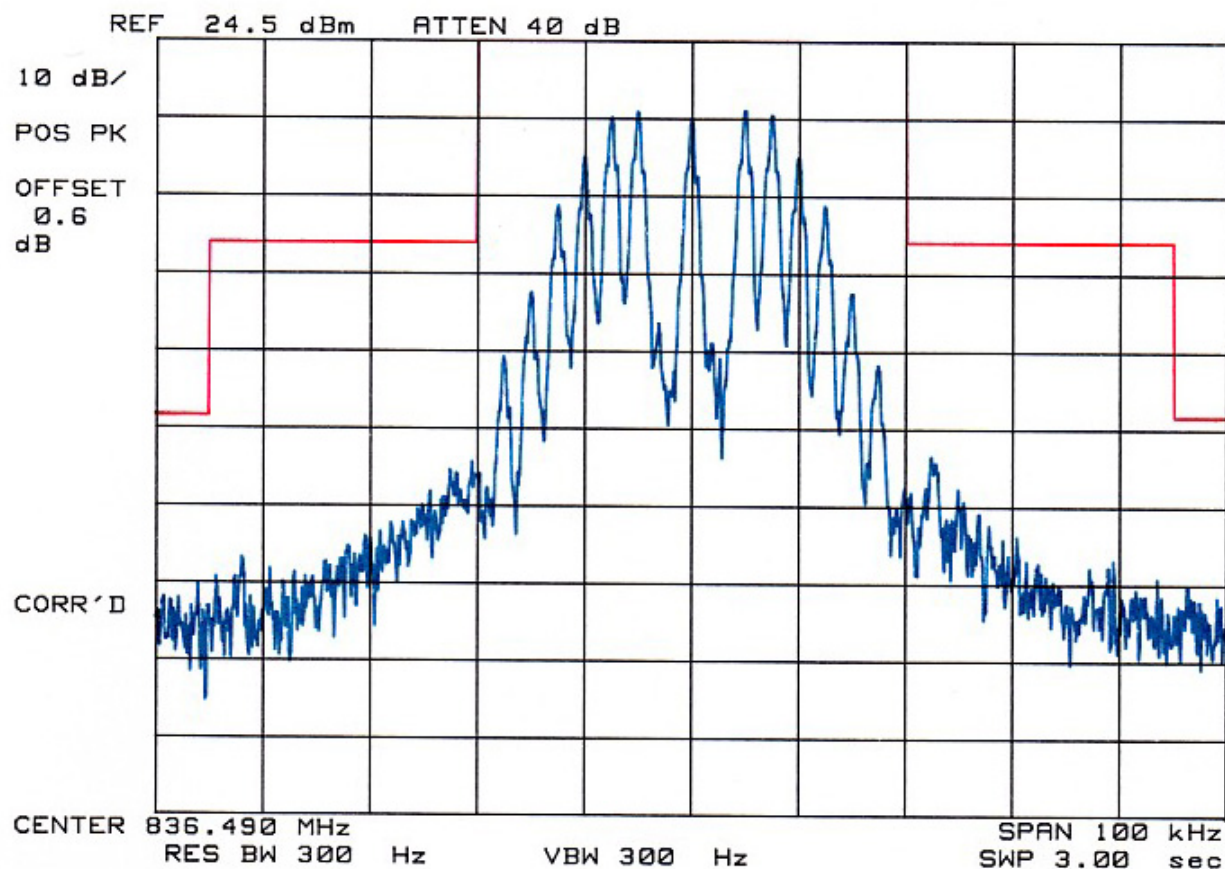
Tri-Mode Phone


FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 24.5 dBm

Test Mode:Voice



PCTEST™ PT. 22/24 CONDUCTED PLOTS		CDMA / AMPS MODE	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 20 of 29

PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:AEZSCP-70H

SANYO

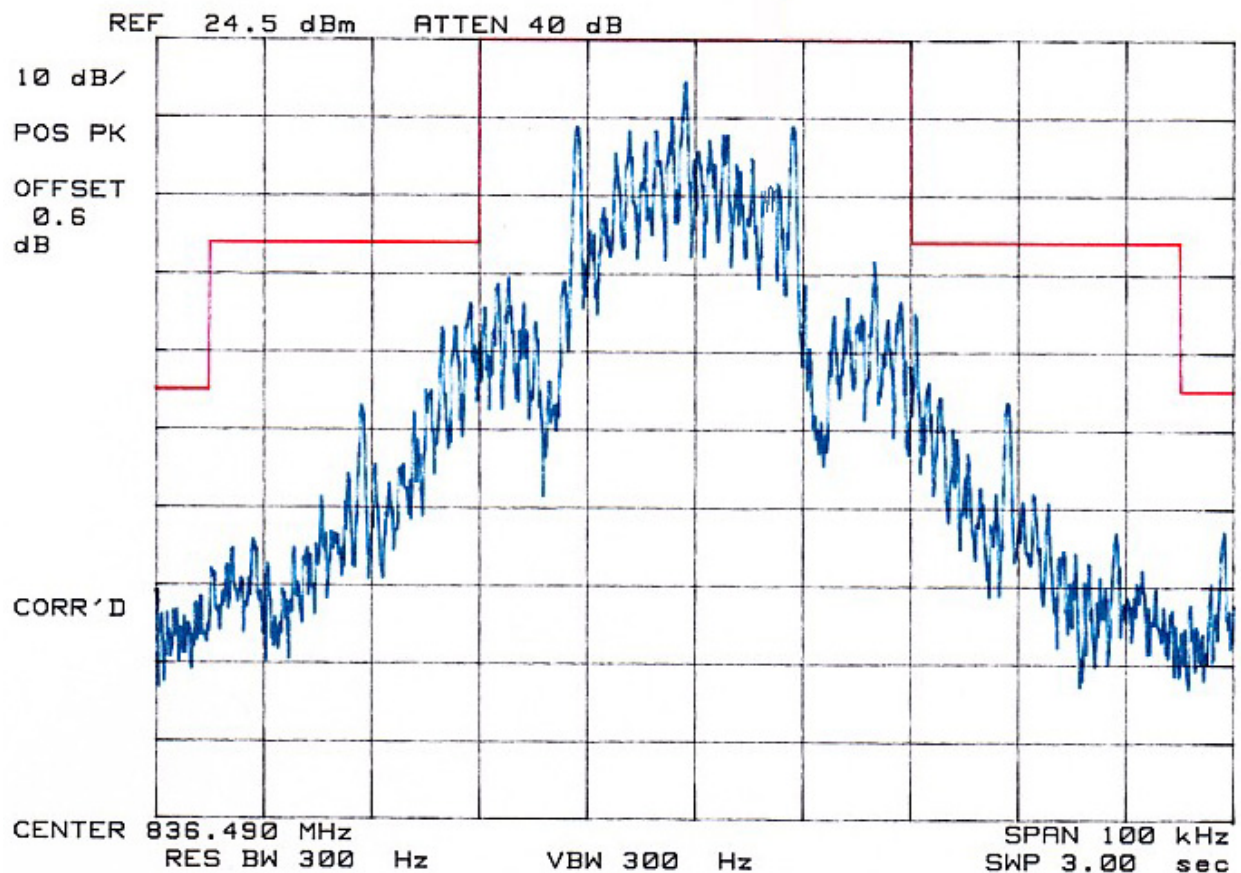
Tri-Mode Phone



FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 24.5 dBm

Test Mode:Wide Band Data



PCTEST™ PT. 22/24 CONDUCTED PLOTS		CDMA / AMPS MODE		Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 21 of 29

PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:AEZSCP-70H

SANYO

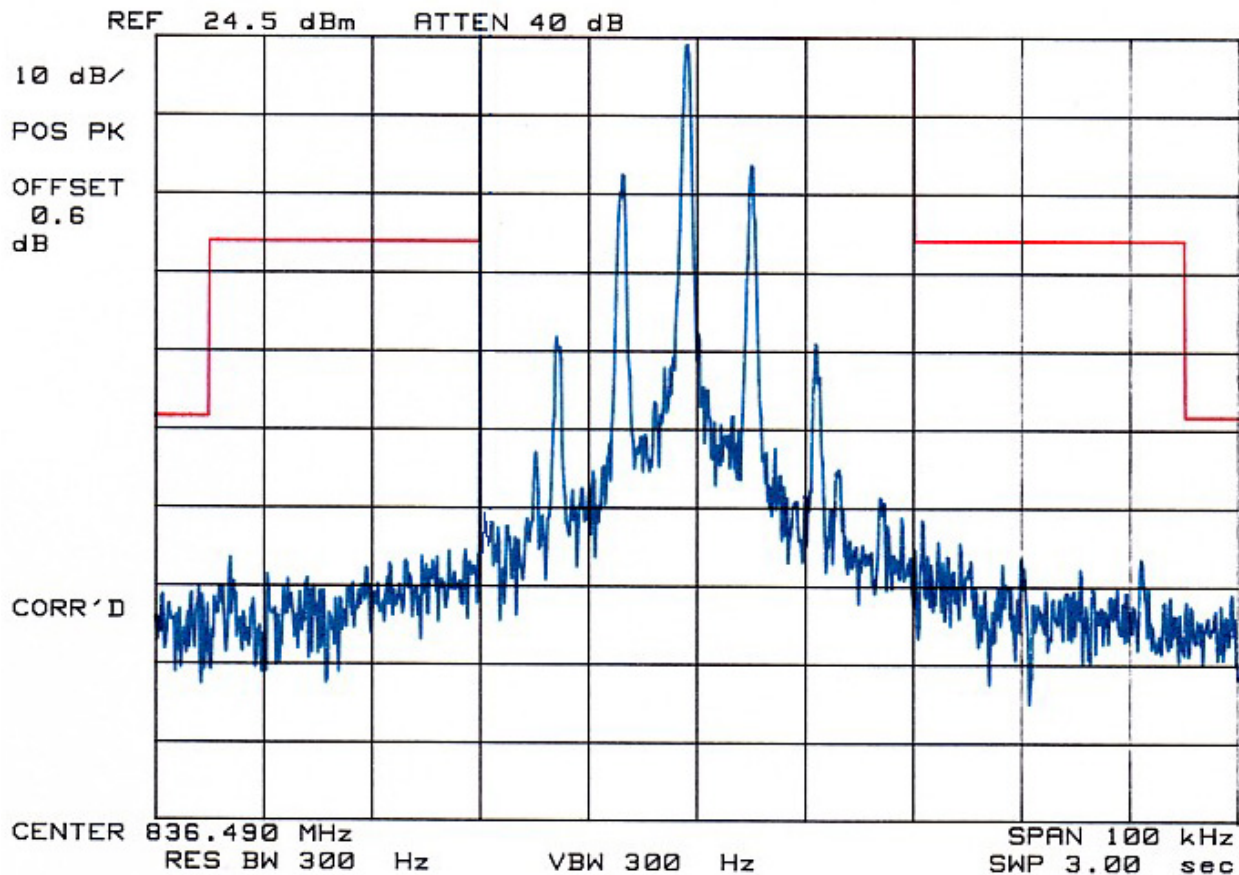
Tri-Mode Phone



FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 24.5 dBm

Test Mode:SAT



PCTEST™ PT. 22/24 CONDUCTED PLOTS		CDMA / AMPS MODE		Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 22 of 29

PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:AEZSCP-70H

SANYO

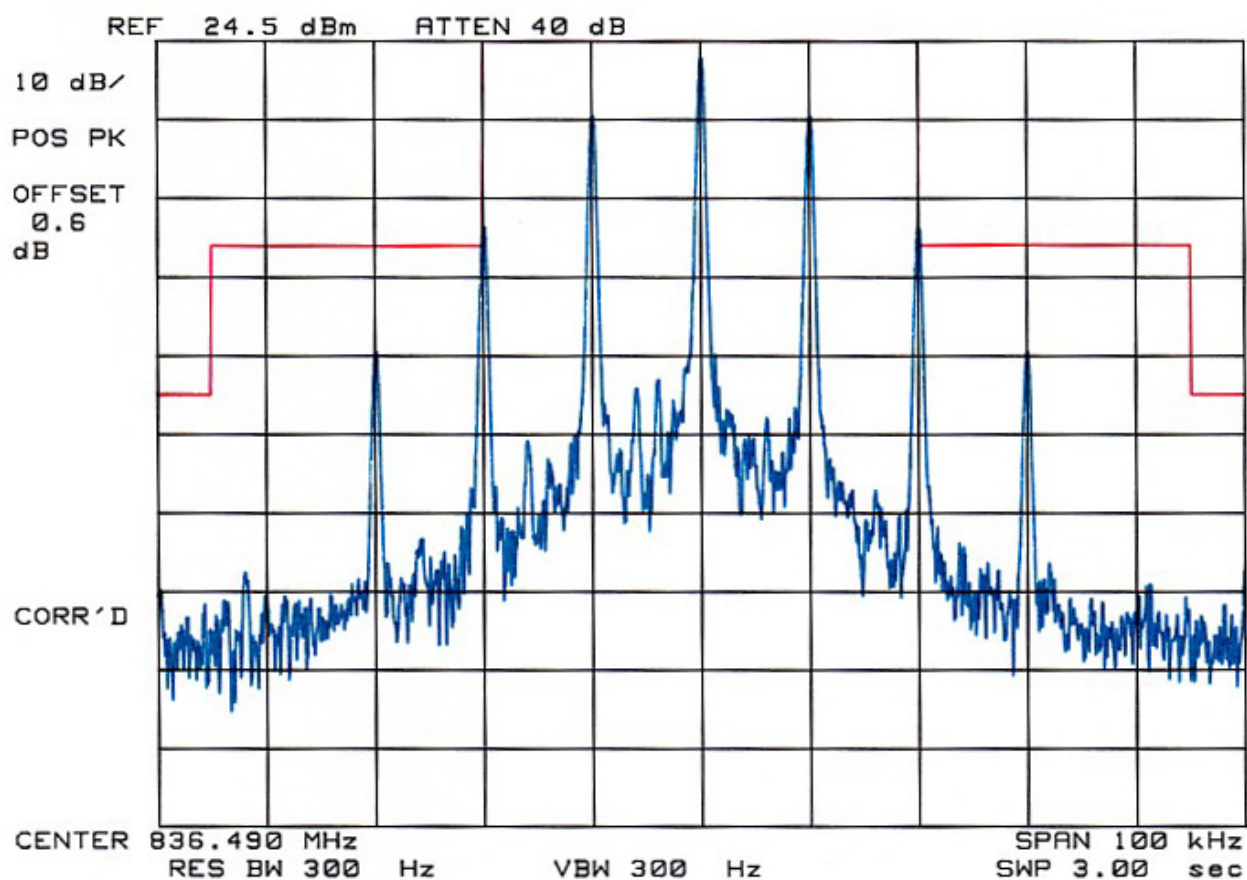
Tri-Mode Phone



FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 24.5 dBm

Test Mode:ST



PCTEST™ PT. 22/24 CONDUCTED PLOTS		CDMA / AMPS MODE		Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 23 of 29

PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:AEZSCP-70H

SANYO

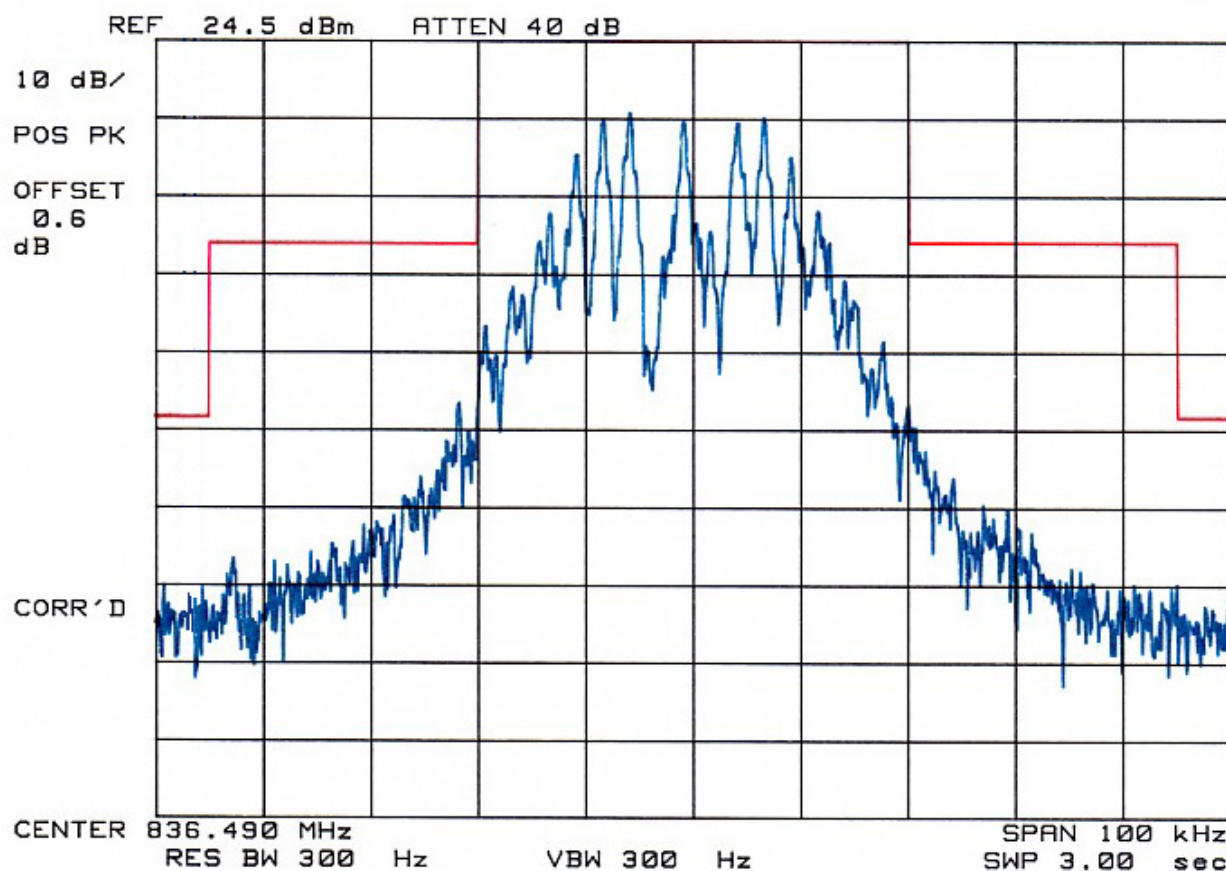
Tri-Mode Phone



FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 24.5 dBm

Test Mode:SAT + Voice



PCTEST™ PT. 22/24 CONDUCTED PLOTS		CDMA / AMPS MODE		Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 24 of 29

PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:AEZSCP-70H

SANYO

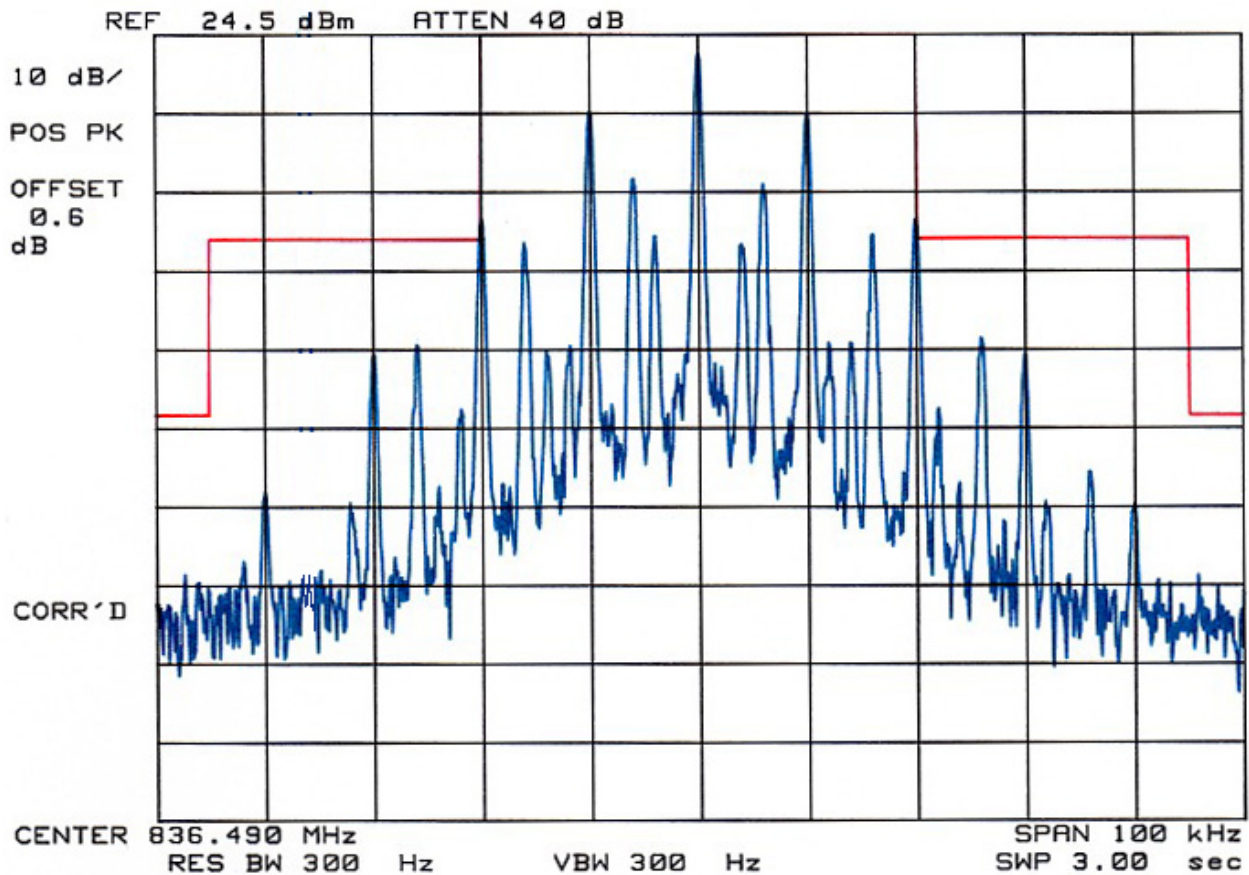
Tri-Mode Phone


FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 24.5 dBm

Test Mode:SAT + ST



PCTEST™ PT. 22/24 CONDUCTED PLOTS		CDMA / AMPS MODE	SANYO	Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 25 of 29

PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:AEZSCP-70H

SANYO

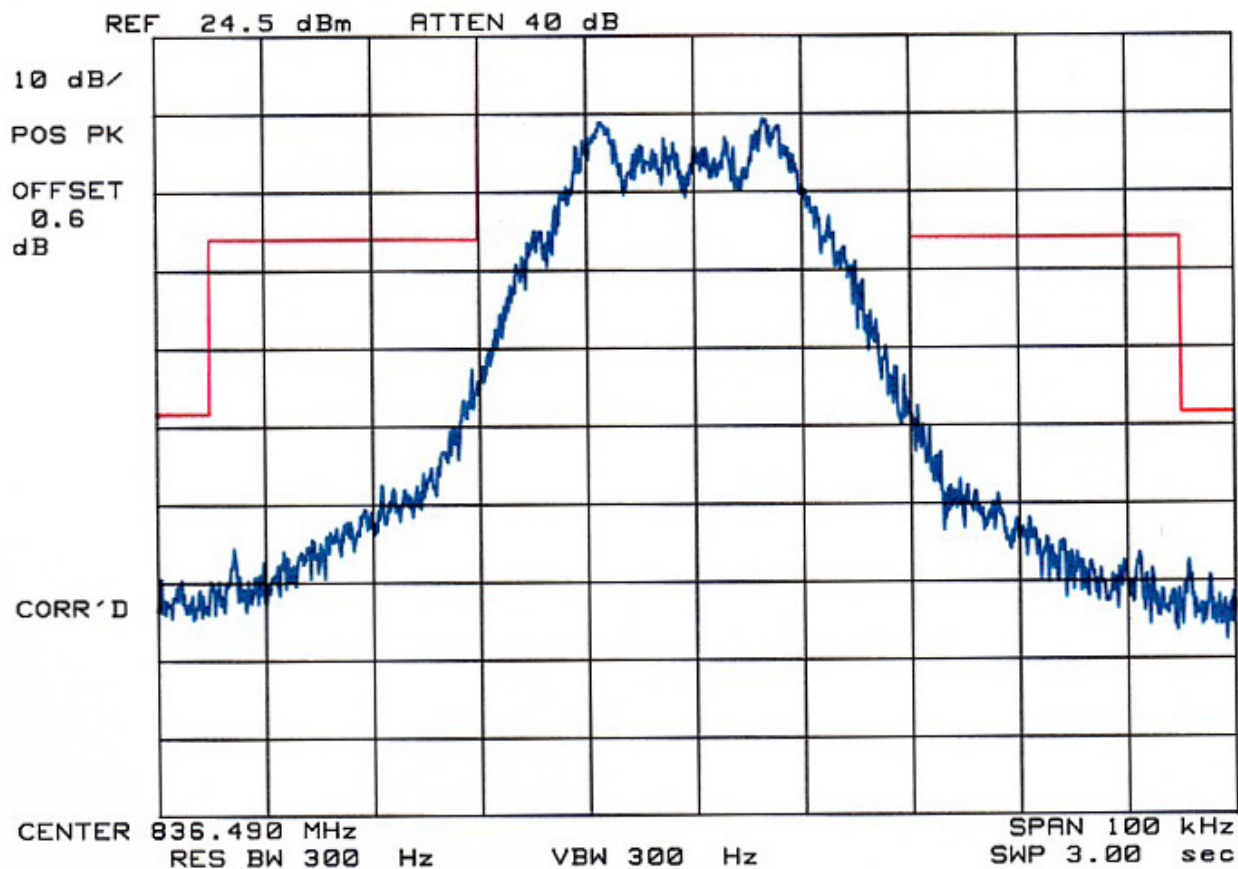
Tri-Mode Phone



FM Channel 383

Operating Frequency: 836.490 MHz

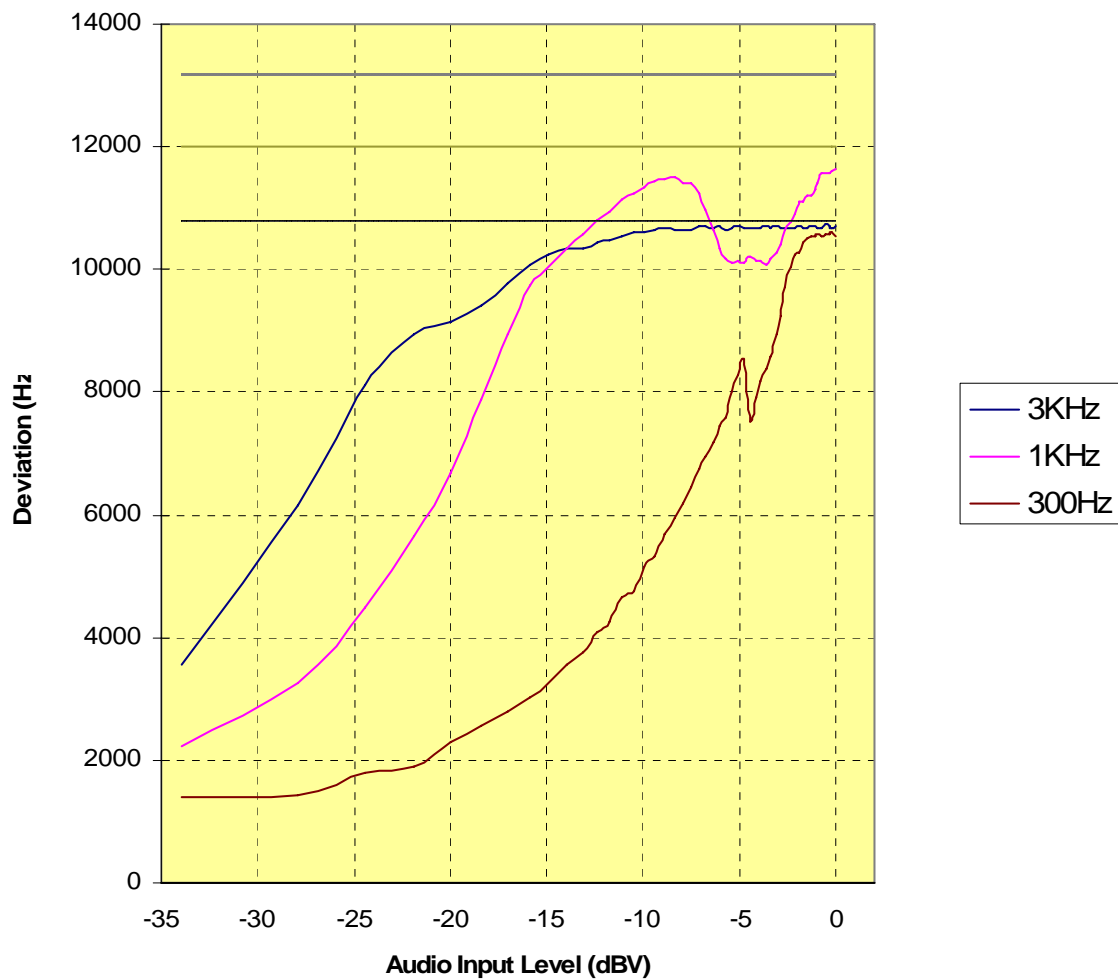
Output Power : 24.5 dBm

Test Mode:SAT + DTMF





PCTEST™ PT. 22/24 CONDUCTED PLOTS		CDMA / AMPS MODE		Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 26 of 29

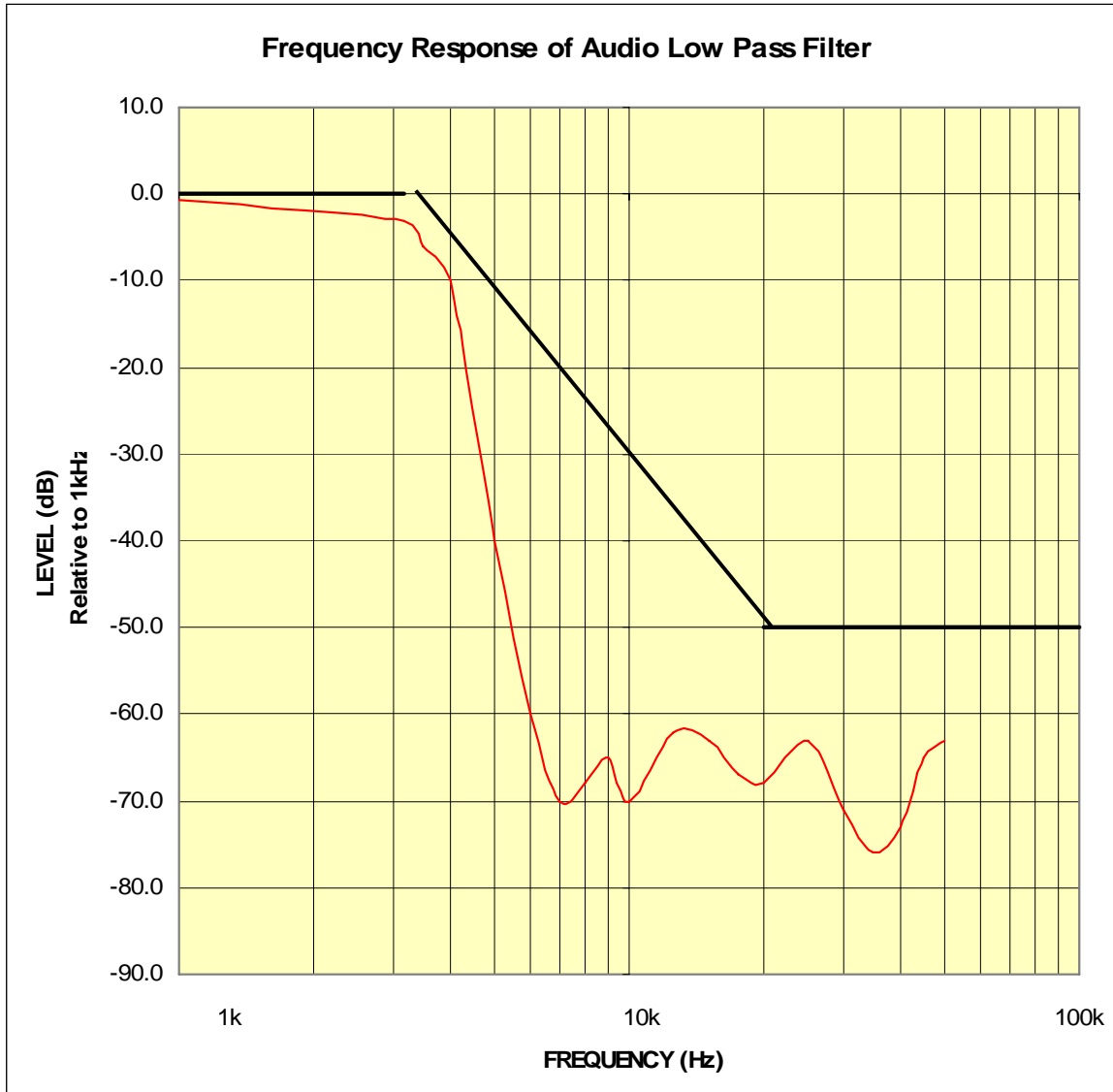
Modulation Limiting



Note:



REFERENCE: 1 kHz = 0 dB

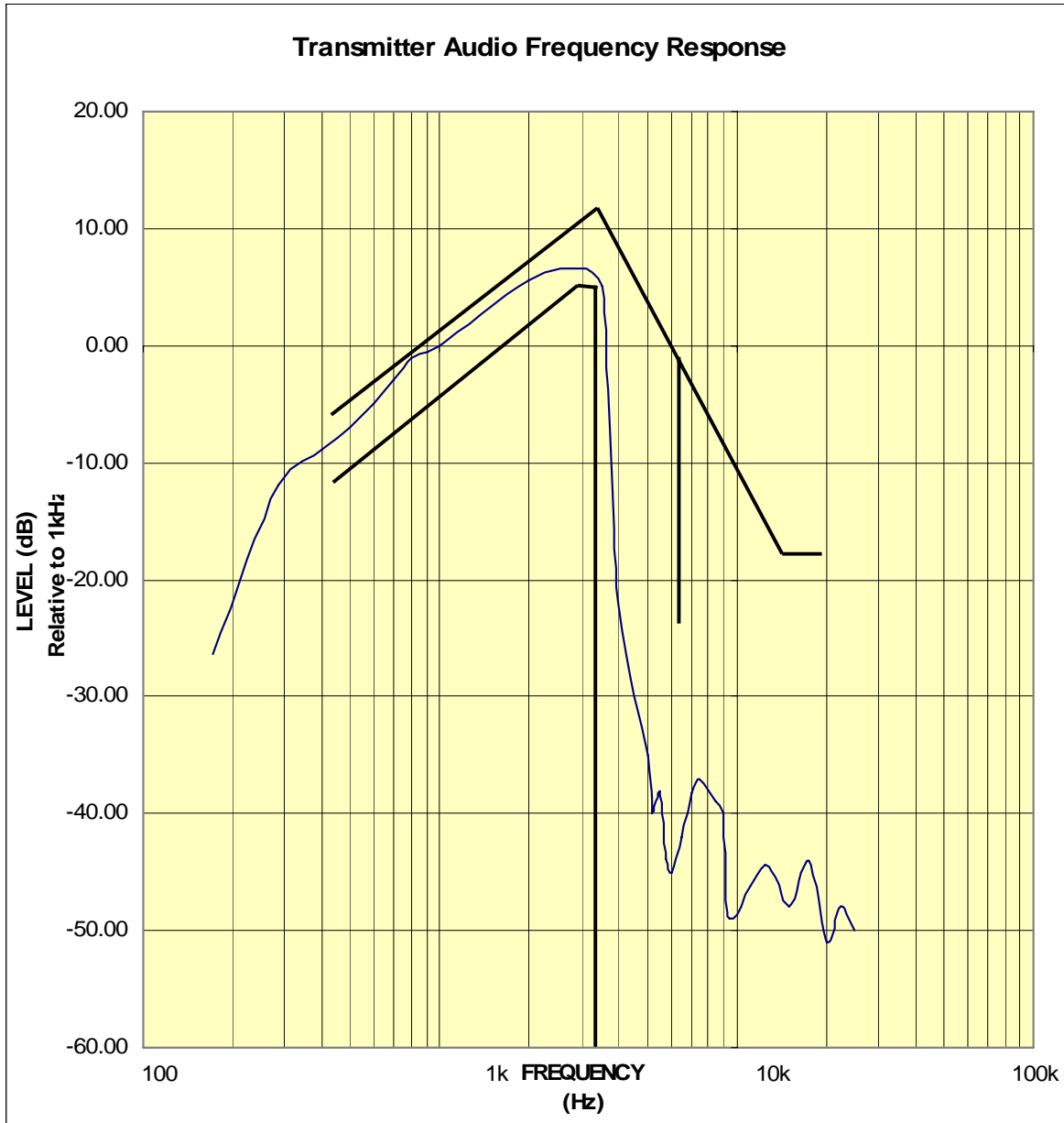
PCTEST™ PT. 22/24 CONDUCTED PLOTS		CDMA / AMPS MODE		Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 27 of 29



Note:



REFERENCE: 1 kHz = 0 dB

PCTEST™ PT. 22/24 CONDUCTED PLOTS			CDMA / AMPS MODE		Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H		Page 28 of 29



Note:

REFERENCE: 1 kHz = 0 dB

PCTEST™ PT. 22/24 CONDUCTED PLOTS			CDMA / AMPS MODE		Reviewed by: Quality Manager
Test Report S/N: 0607240631	Test Dates: August 1 - 4, 2006	EUT Type: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: AEZSCP-70H	Page 29 of 29	