

1.1 Test Data

1.2 Effective Radiated Power Output

A. POWER: Low (Analog Mode)

Freq. Tuned (MHz)	REF. LEVEL (dBm)	POL (H/V)	ERP (W)	ERP (dBm)
824.04	-36.450	H	0.003	4.823
836.49	-36.350	H	0.003	5.079
848.97	-36.600	H	0.003	4.985

B. POWER: High (Analog Mode)

Freq. Tuned (MHz)	REF. LEVEL (dBm)	POL (H/V)	ERP (W)	ERP (dBm)	BATTERY
824.04	-16.450	H	0.304	24.823	Standard
836.49	-16.350	H	0.322	25.079	Standard
848.97	-16.600	H	0.315	24.985	Standard
836.49	-16.450	H	0.315	24.979	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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 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.

PCTEST PT. 22/24 SUPPLEMENT		FCC MEASUREMENT SUPPLEMENT		Reviewed By: Quality Manager
Test Report S/N: 22/24.240604350.A3L	Test Dates: June 17, 2004	Phone Type: Tri-Mode Dual-Band	FCC ID: A3LSPHA760	Page 1 of 6

2.1 Test Data

2.2 A MPS Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 824.04 MHz
 CHANNEL: 0991 (Low)
 MEASURED OUTPUT POWER: 25.079 dBm = 0.322 W
 MODULATION SIGNAL: FM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 38.08 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1648.08	-42.58	6.10	-36.48	H	61.6
2472.12	-45.68	6.70	-38.98	H	64.1
3296.16	-47.68	6.80	-40.88	H	66.0
4120.20	-71.53	6.50	-65.03	H	90.1
4944.24	-79.38	7.00	-72.38	H	97.5

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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 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.

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Test Report S/N: 22/24.240604350.A3L	Test Dates: June 17, 2004	Phone Type: Tri-Mode Dual-Band	FCC ID: A3LSPHA760	Page 2 of 6

2.1 Test Data (Continued)

2.3 A MPS Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 836.49 MHz
 CHANNEL: 0383 (Mid)
 MEASURED OUTPUT POWER: 25.079 dBm = 0.322 W
 MODULATION SIGNAL: FM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 38.08 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1672.98	-41.98	6.10	-35.88	H	61.0
2509.47	-44.88	6.70	-38.18	H	63.3
3345.96	-44.48	6.80	-37.68	H	62.8
4182.45	-70.68	6.50	-64.18	H	89.3
5018.94	-77.78	7.00	-70.78	H	95.9

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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 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.

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2.1 Test Data (Continued)

2.4 A MPS Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 848.97 MHz
 CHANNEL: 0799 (High)
 MEASURED OUTPUT POWER: 25.079 dBm = 0.322 W
 MODULATION SIGNAL: FM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 38.08 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1697.94	-42.88	6.10	-36.78	V	61.9
2546.91	-44.58	6.70	-37.88	V	63.0
3395.88	-43.28	6.80	-36.48	V	61.6
4244.85	-75.78	6.50	-69.28	V	94.4

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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 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.

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3.1 Test Data

3.2 FREQUENCY STABILITY (AMPS)

OPERATING FREQUENCY: 836,490,006 Hz

CHANNEL: 383

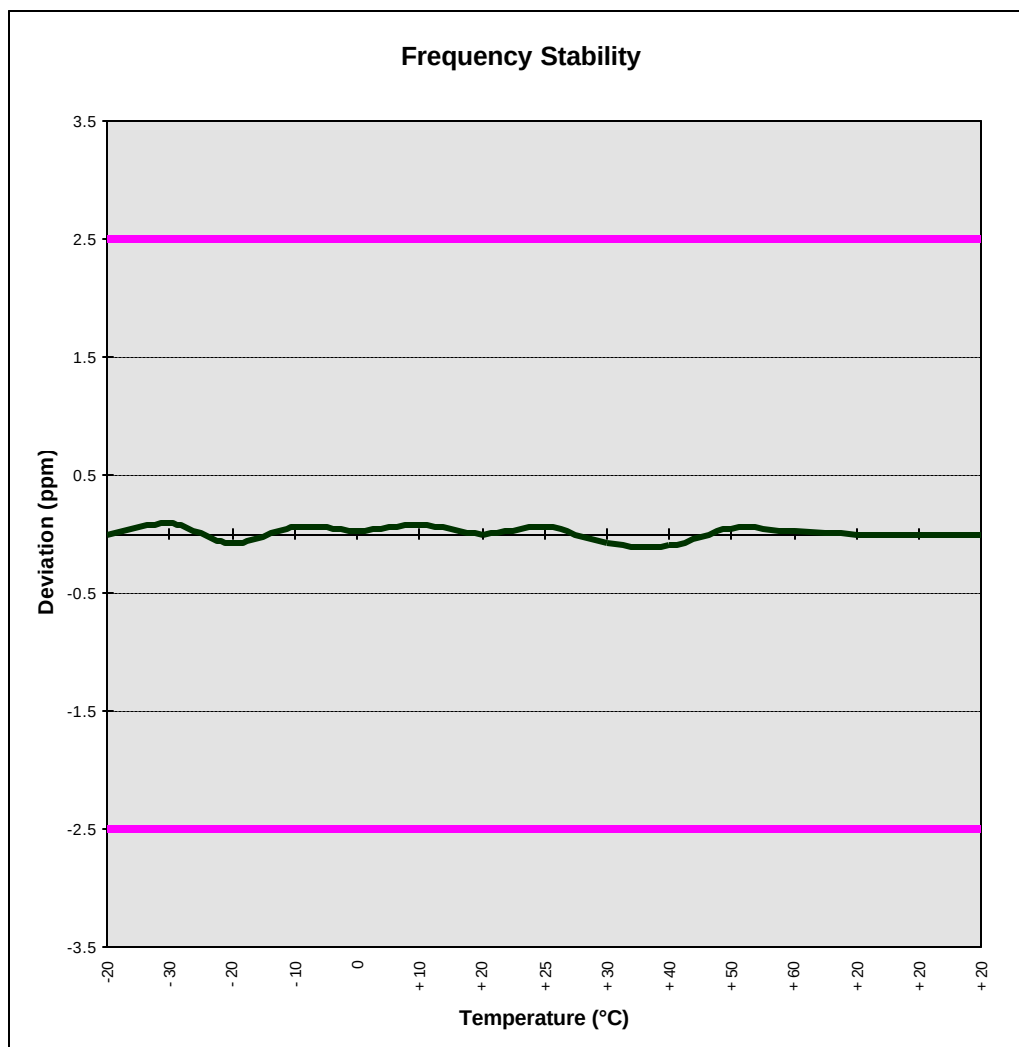
REFERENCE VOLTAGE: 3.7 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

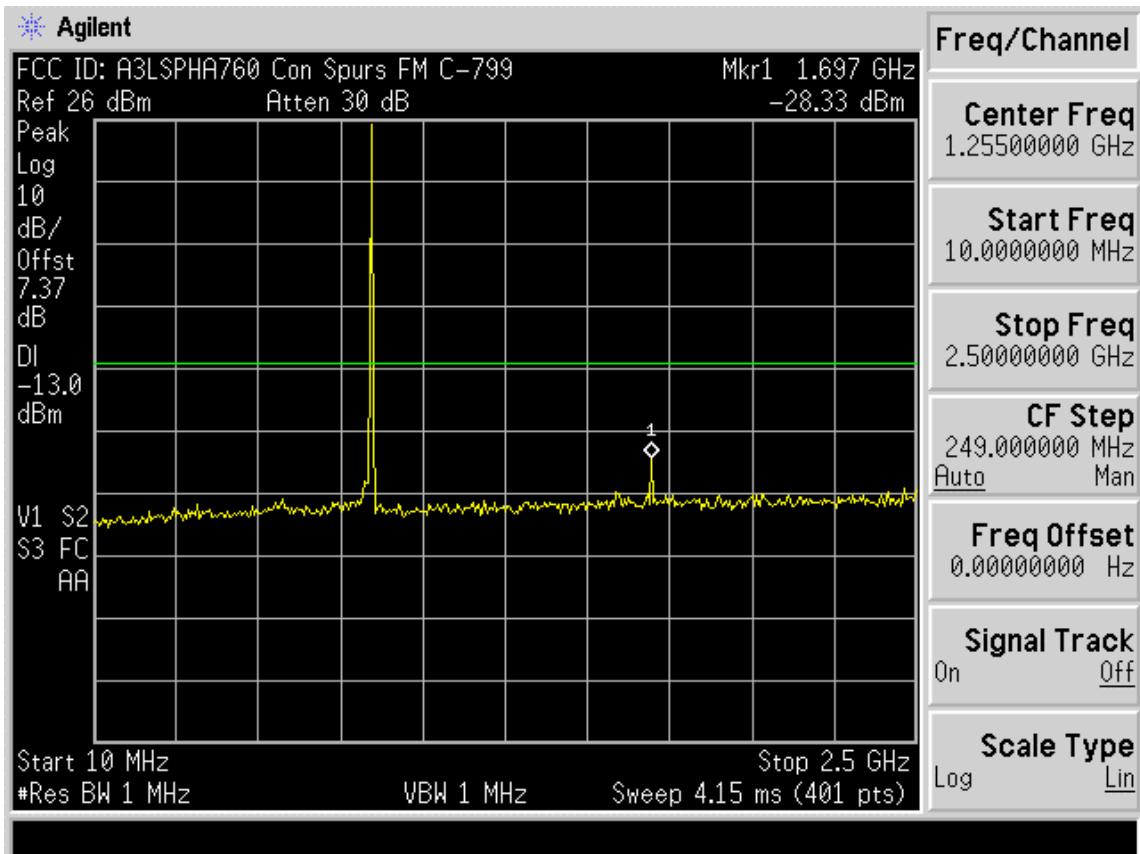
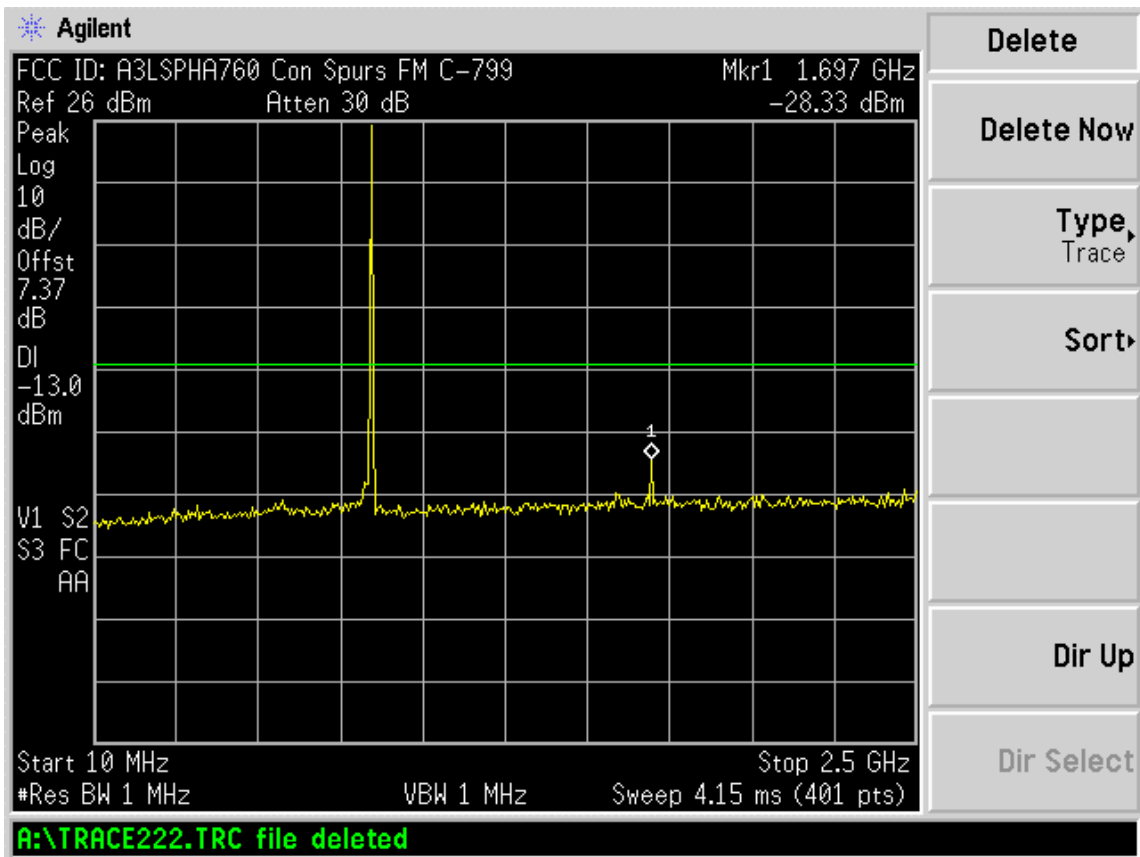
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQ. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	836,490,006	0.000000
100 %		- 30	836,489,931	0.000009
100 %		- 20	836,490,073	-0.000008
100 %		- 10	836,489,956	0.000006
100 %		0	836,489,981	0.000003
100 %		+ 10	836,489,939	0.000008
100 %		+ 20	836,490,006	0.000000
100 %		+ 25	836,489,956	0.000006
100 %		+ 30	836,490,073	-0.000008
100 %		+ 40	836,490,090	-0.000010
100 %		+ 50	836,489,964	0.000005
100 %		+ 60	836,489,989	0.000002
85 %	3.17	+ 20	836,490,006	0.000000
115 %	4.26	+ 20	836,490,006	0.000000
BATT. ENDPOINT	3.15	+ 20	836,490,006	0.000000

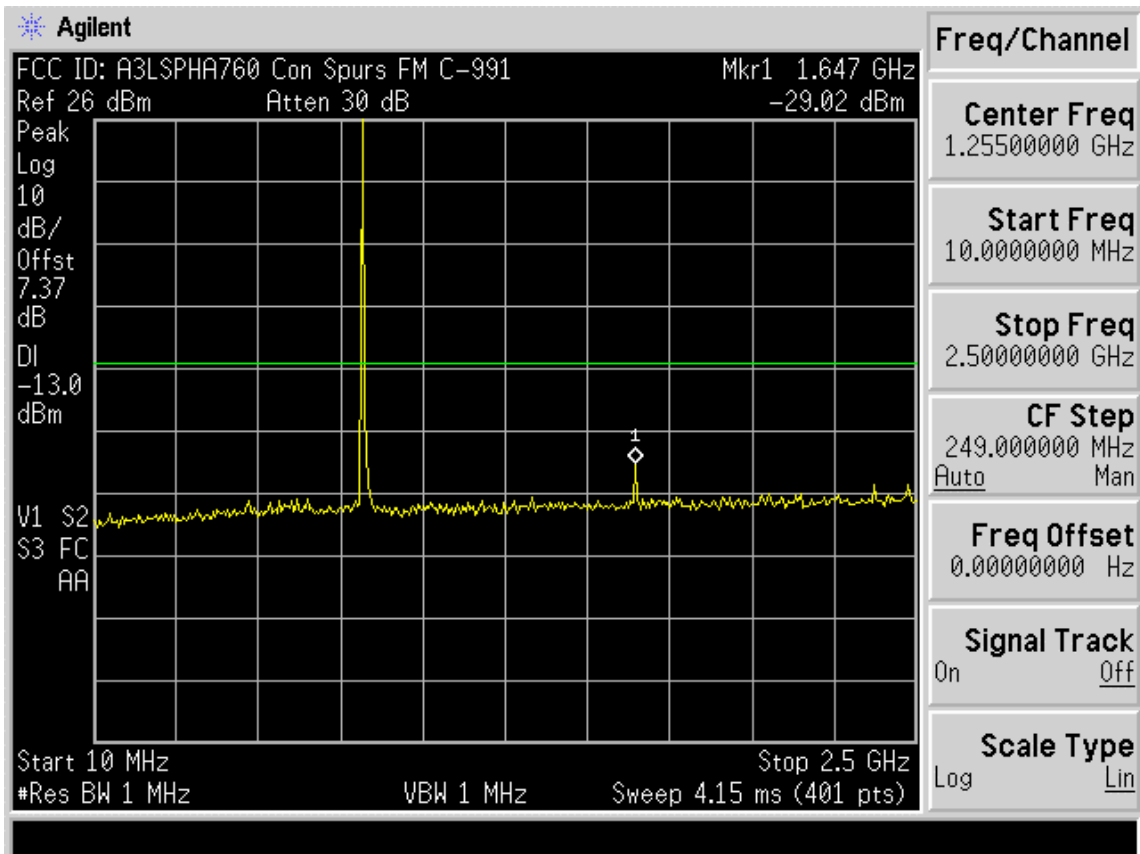
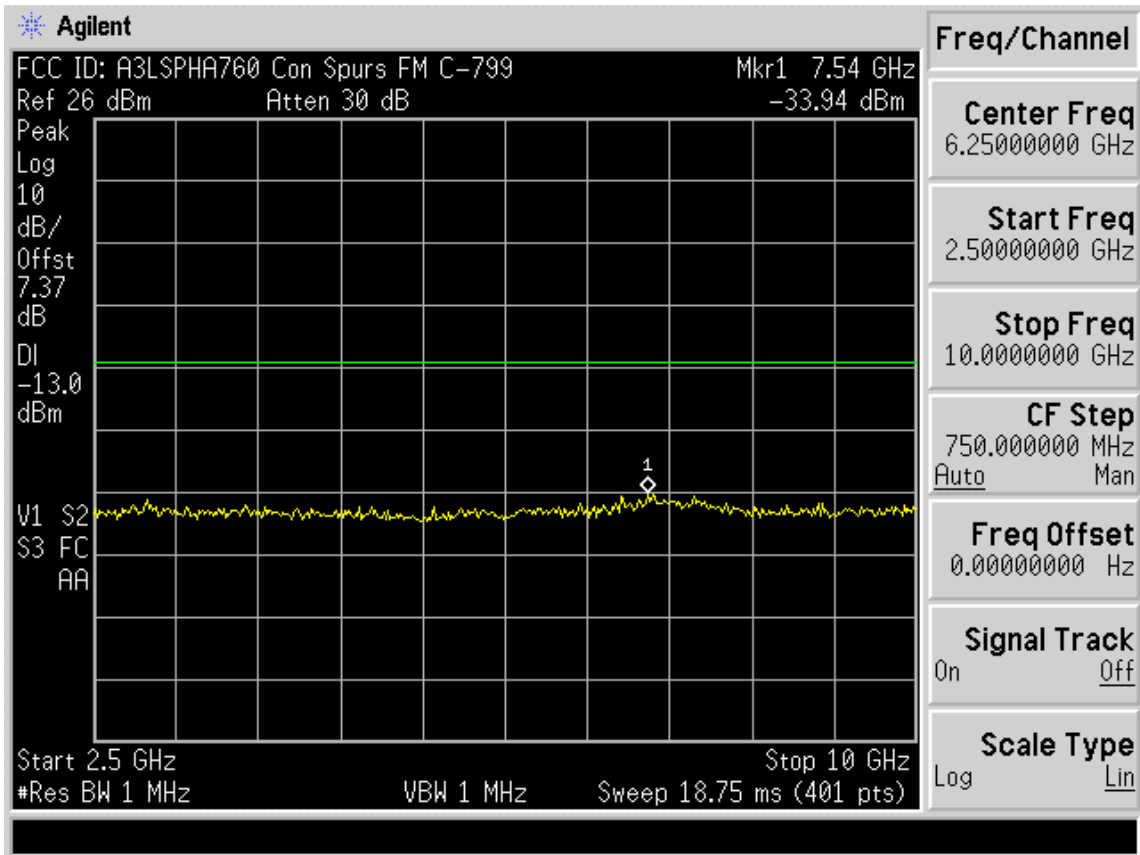
3.1 Test Data (Continued)

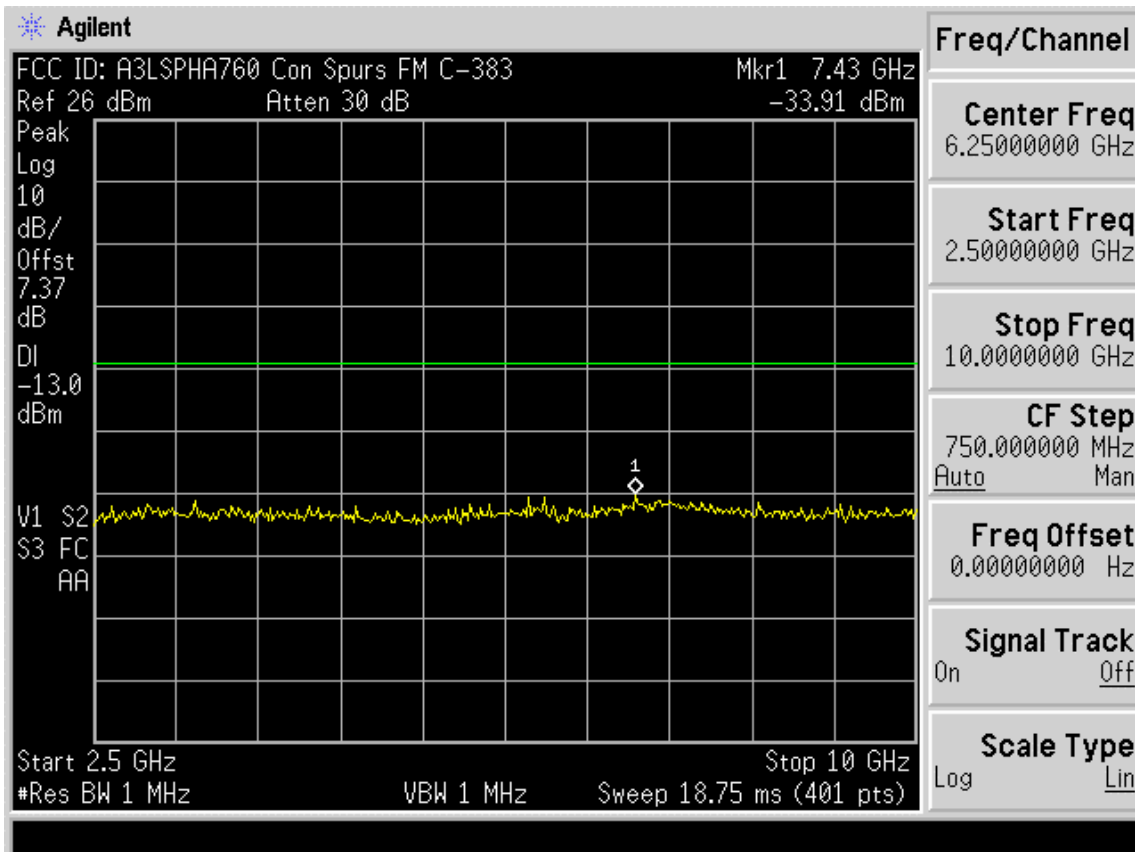
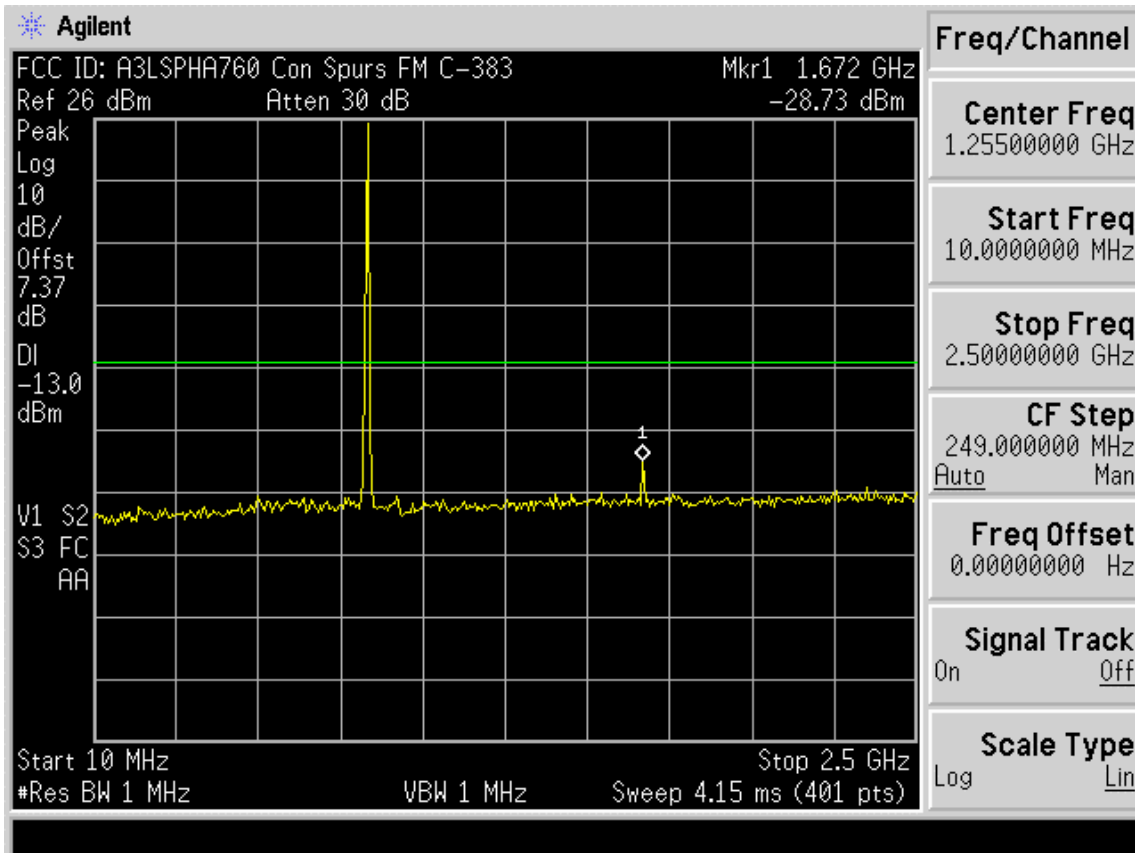
3.3 FREQUENCY STABILITY (AMPS)



PCTEST PT. 22/24 SUPPLEMENT	FCC MEASUREMENT SUPPLEMENT			Reviewed By: Quality Manager
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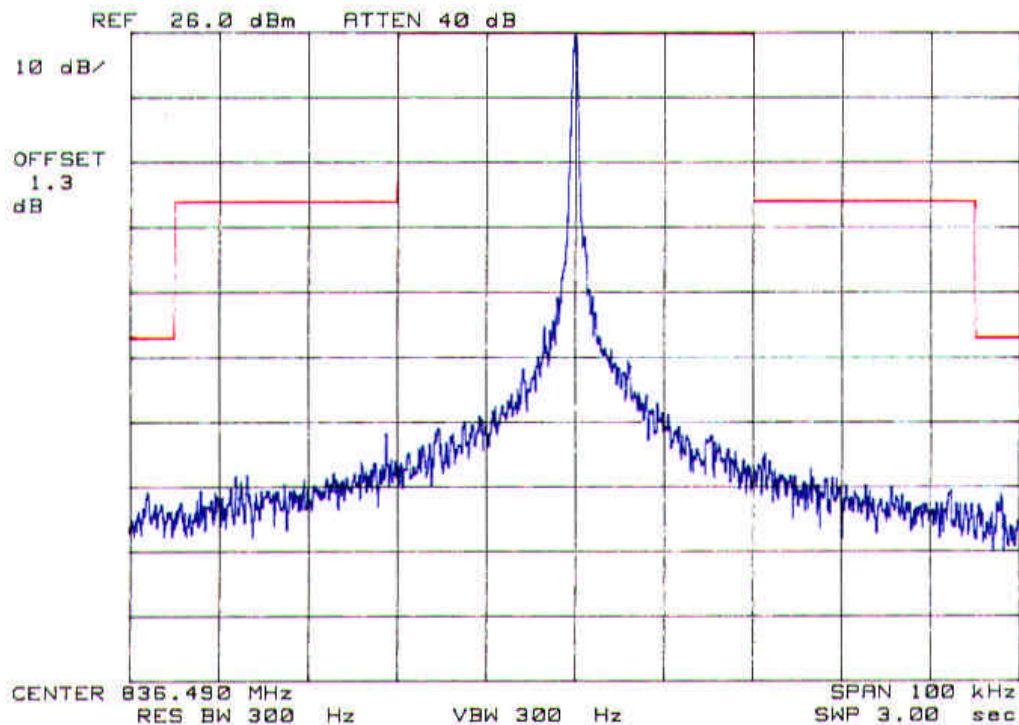


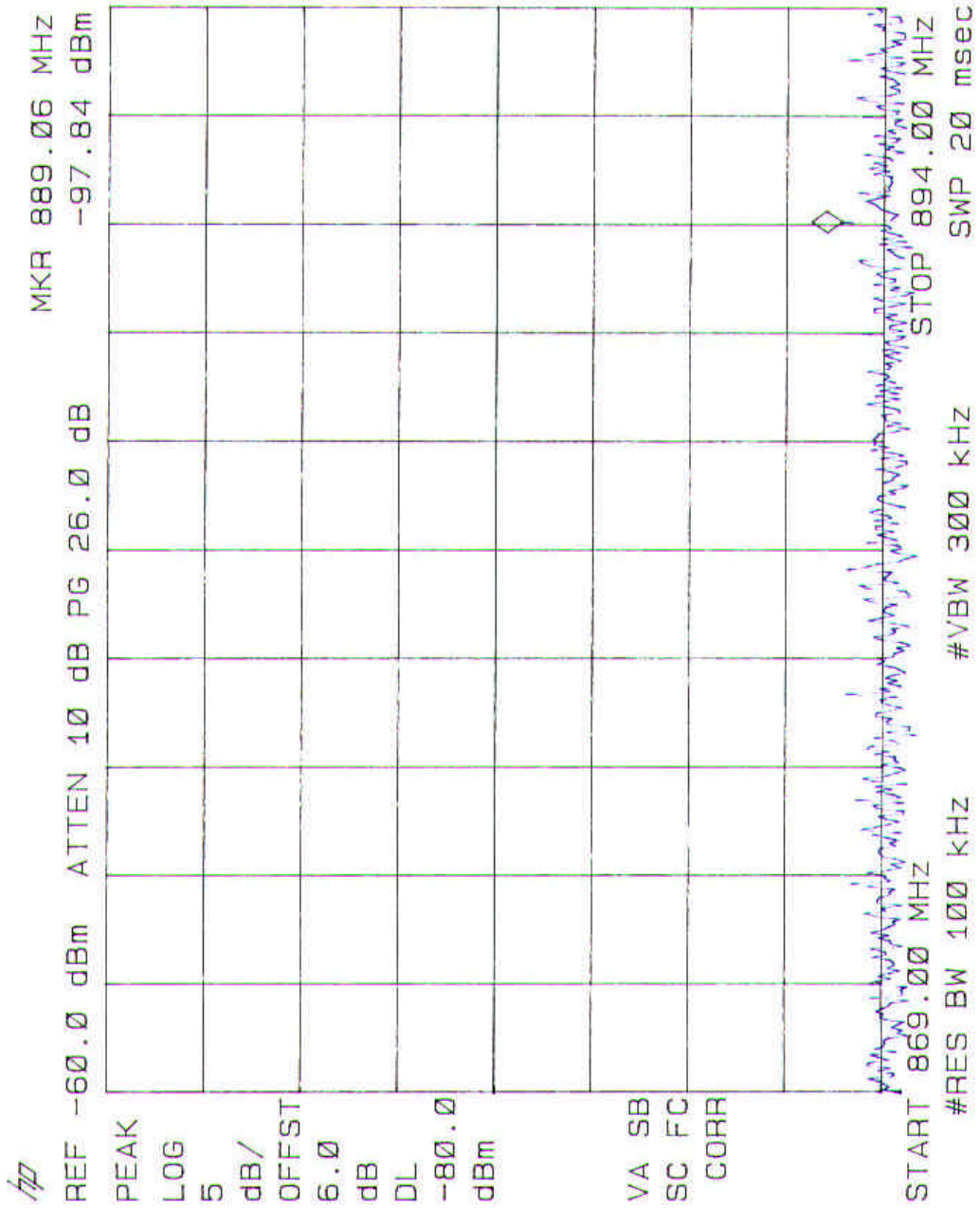
PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSPHA760
SAMSUNG
TRI-MODE PHONE
FM Channel 383
Operating Frequency: 836.490 MHz
Output Power : 26.0 dBm

Test Mode:Unmodulated Signal





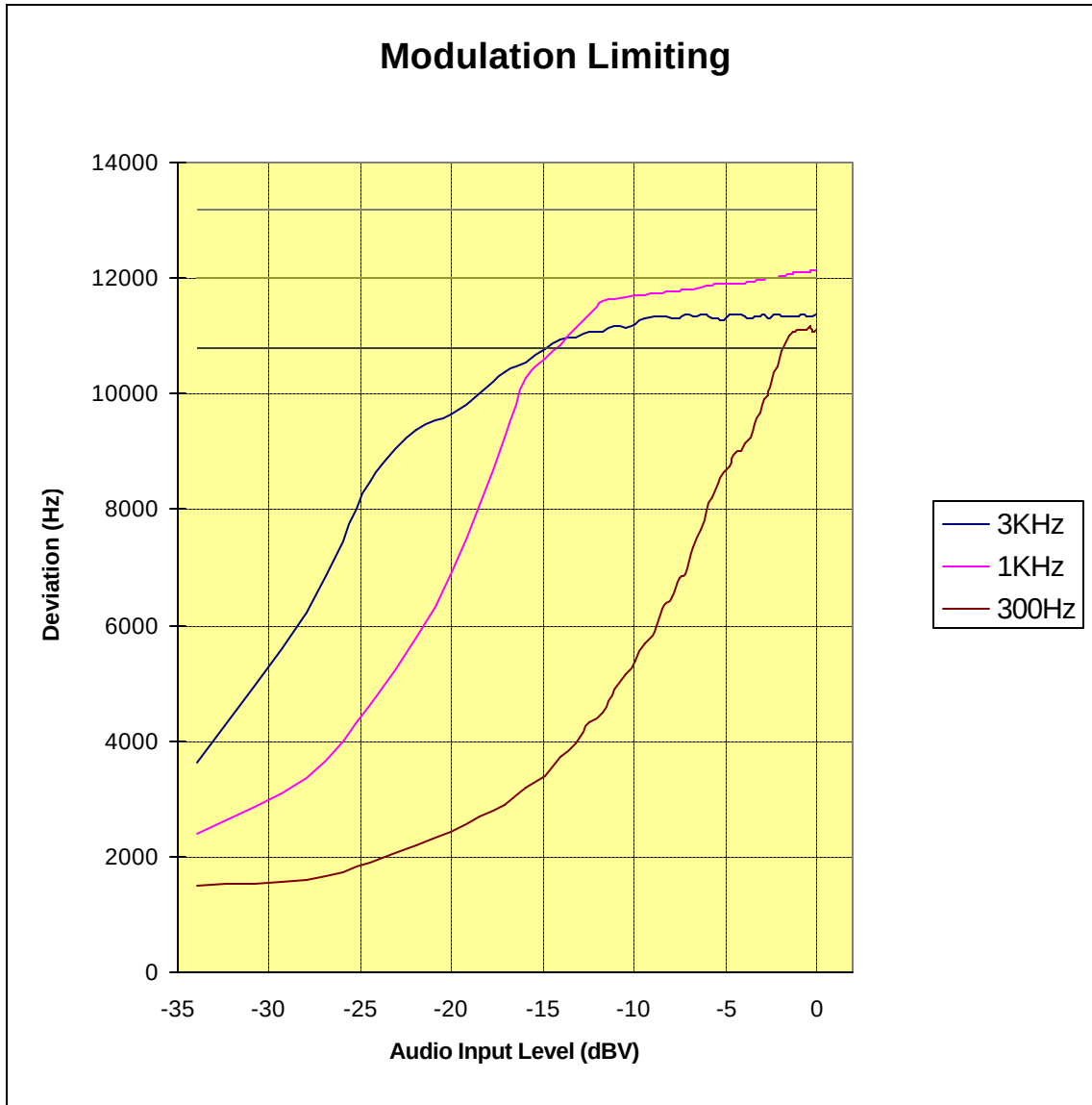
PCTEST Engineering Lab., Inc.

SUBJECT: Modulation Characteristics
FCC Part 24/22

Test Report No.: 22/24.240604350.A3L
Test Date: 06.17.2004

EUT: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)
Model: SPH-A760
FCC ID: A3LSPHA760

REFERENCE: 1 kHz = 0 dB



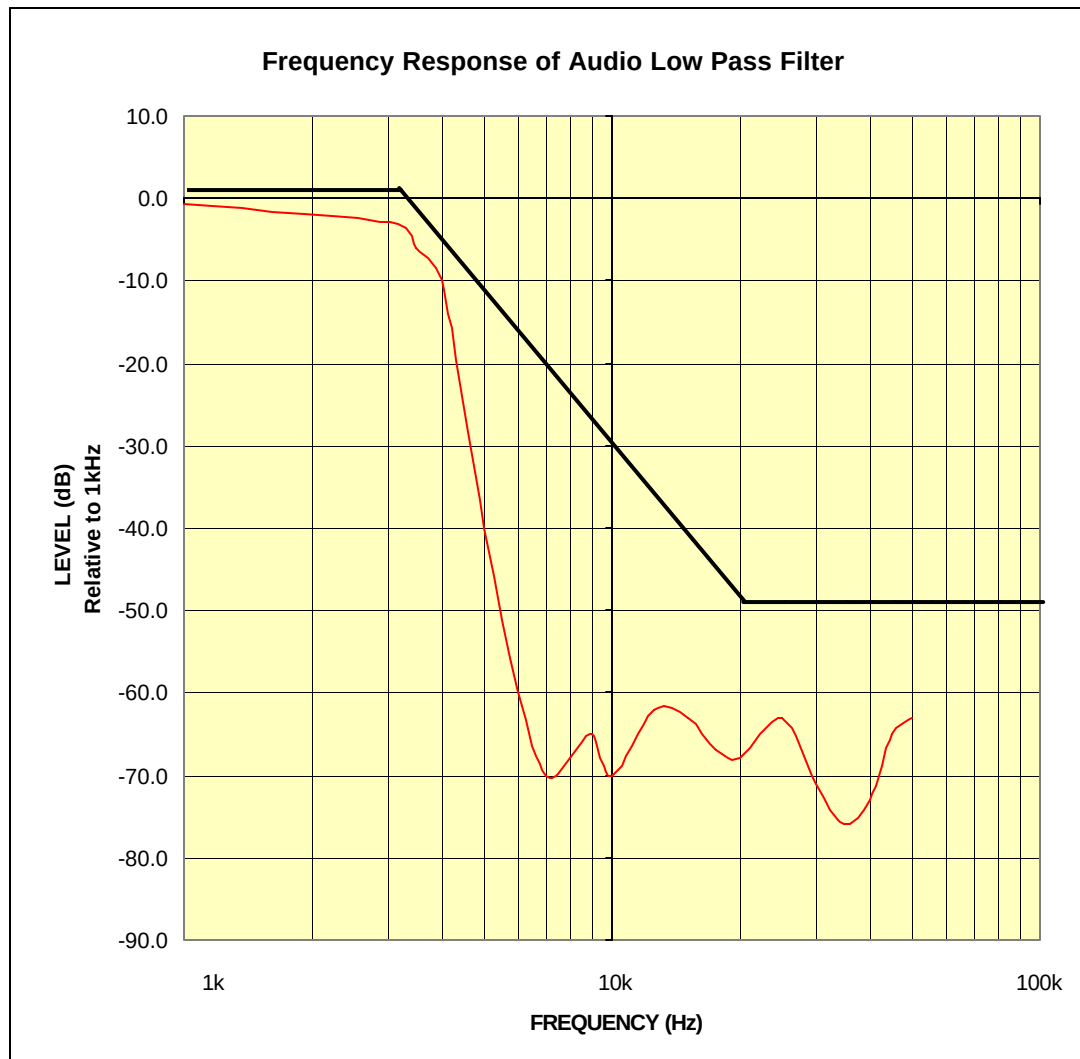
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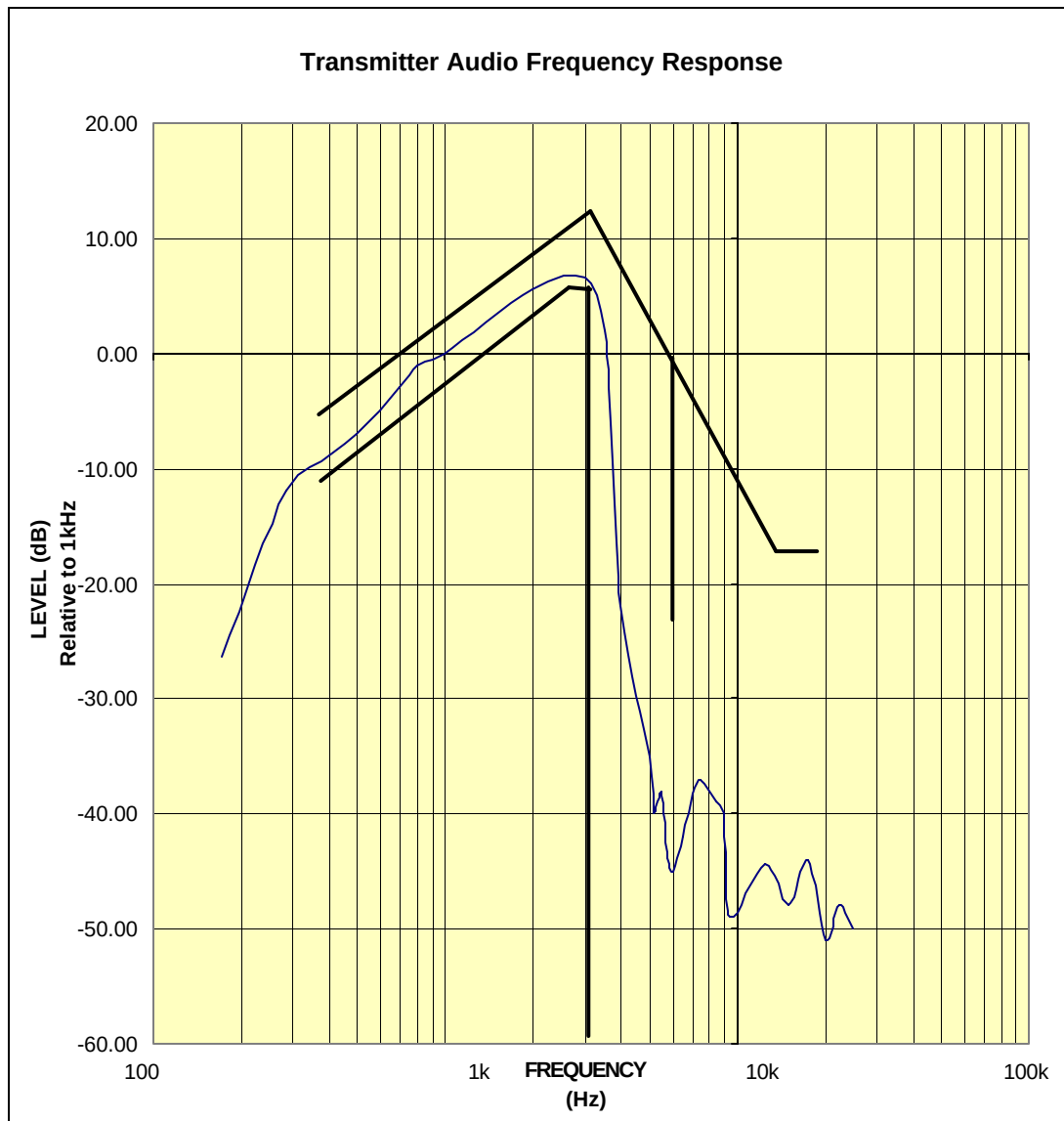
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SUBJECT: Modulation Characteristics
FCC Part 24/22

Test Report No.: 22/24.240604350.A3L
Test Date: 06.17.2004

EUT: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)
Model: SPH-A760
FCC ID: A3LSPHA760

REFERENCE: 1 kHz = 0 dB



SAMSUNG Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)
FCC ID: A3LSPHA760