

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	-36.200	H	0.003	5.073
836.49	-36.400	H	0.003	5.029
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	-16.200	H	0.322	25.073	Standard
836.49	-16.400	H	0.318	25.029	Standard
848.97	-16.600	H	0.315	24.985	Standard

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.

PCTEST™ PT. 22/24 SUPPLEMENT	 FCC MEASUREMENT SUPPLEMENT 		Reviewed By: Quality Manager
Test Report S/N: 06021710095	Test Dates: FEB. 20, 2006	Phone Type: Tri-Mode Dual-Band	FCC ID: A3LSPHA645
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2.1 Test Data

2.2 AMPS Radiated Measurements

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 824.04 MHz
 CHANNEL: 0991 (Low)
 MEASURED OUTPUT POWER: 25.073 dBm = 0.322 W
 MODULATION SIGNAL: FM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 38.07 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1648.08	-51.13	6.10	-45.03	H	70.1
2472.12	-51.98	6.70	-45.28	H	70.4
3296.16	-46.93	6.80	-40.13	H	65.2
4120.20	-56.98	6.50	-50.48	H	75.6
4944.24	-84.38	7.00	-77.38	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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Test Report S/N: 06021710095	Test Dates: FEB. 20, 2006	Phone Type: Tri-Mode Dual-Band	FCC ID: A3LSPHA645	Page 2 of 6

2.1 Test Data (Continued)

2.3 AMPS Radiated Measurements

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 836.49 MHz
 CHANNEL: 0383 (Mid)
 MEASURED OUTPUT POWER: 25.073 dBm = 0.322 W
 MODULATION SIGNAL: FM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 38.07 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1672.98	-47.78	6.10	-41.68	H	66.8
2509.47	-53.08	6.70	-46.38	H	71.5
3345.96	-45.03	6.80	-38.23	H	63.3
4182.45	-58.08	6.50	-51.58	H	76.7
5018.94	-83.88	7.00	-76.88	H	102.0

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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Test Report S/N: 06021710095	Test Dates: FEB. 20, 2006	Phone Type: Tri-Mode Dual-Band	FCC ID: A3LSPHA645	Page 3 of 6

2.1 Test Data (Continued)

2.4 AMPS Radiated Measurements

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 848.97 MHz
 CHANNEL: 0799 (High)
 MEASURED OUTPUT POWER: 25.073 dBm = 0.322 W
 MODULATION SIGNAL: FM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 38.07 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1697.94	-43.63	6.10	-37.53	V	62.6
2546.91	-48.13	6.70	-41.43	V	66.5
3395.88	-47.48	6.80	-40.68	V	65.8
4244.85	-57.68	6.50	-51.18	V	76.3
5093.82	-83.98	7.00	-76.98	V	102.1

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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Test Report S/N: 06021710095	Test Dates: FEB. 20, 2006	Phone Type: Tri-Mode Dual-Band	FCC ID: A3LSPHA645	Page 4 of 6

3.1 Test Data

3.2 FREQUENCY STABILITY (AMPS)



OPERATING FREQUENCY: 836,490,003 Hz

CHANNEL: 383

REFERENCE VOLTAGE: 3.7 VDC

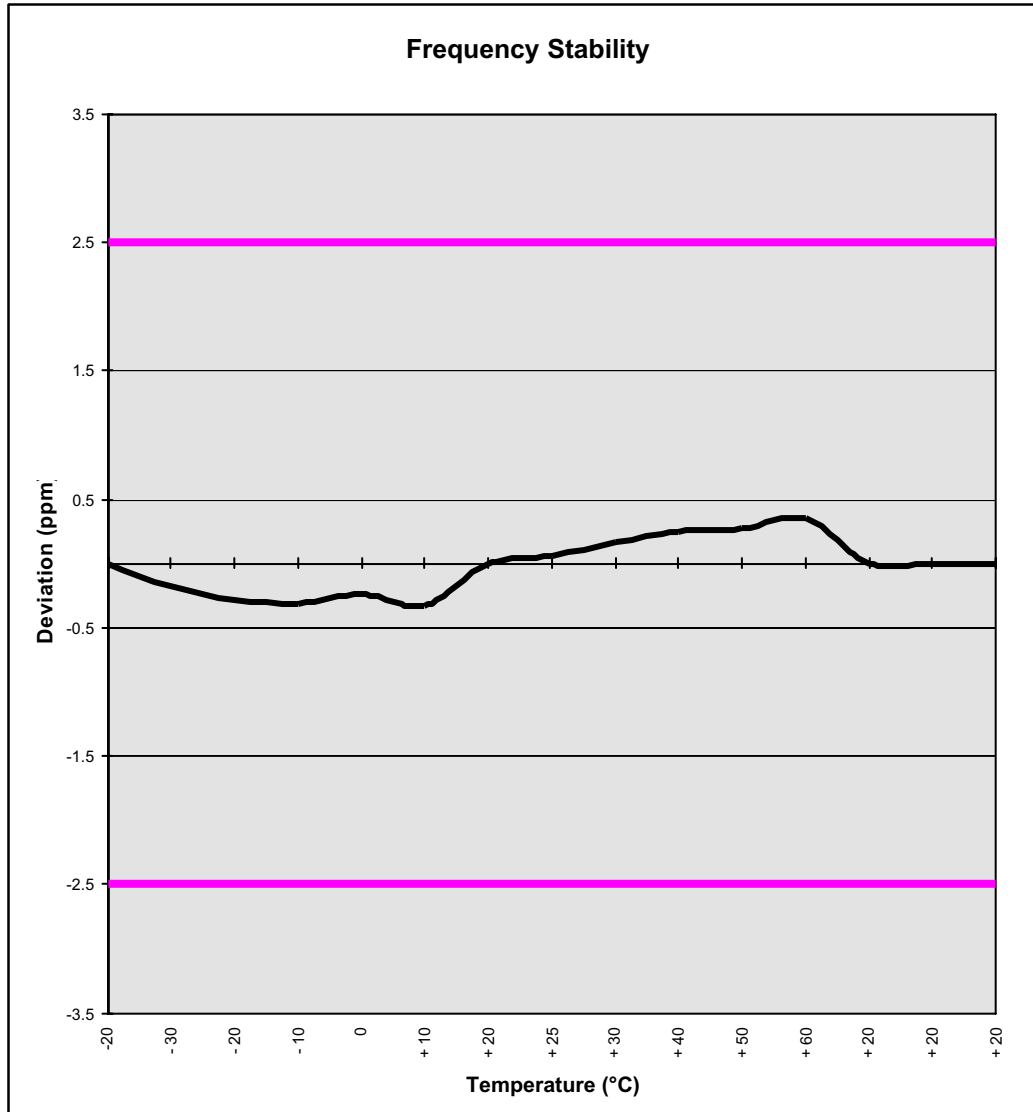
DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm



VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQ. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	836,490,003	0.000000
100 %		- 30	836,490,154	-0.000018
100 %		- 20	836,490,237	-0.000028
100 %		- 10	836,490,262	-0.000031
100 %		0	836,490,204	-0.000024
100 %		+ 10	836,490,279	-0.000033
100 %		+ 20	836,490,003	0.000000
100 %		+ 25	836,489,953	0.000006
100 %		+ 30	836,489,869	0.000016
100 %		+ 40	836,489,794	0.000025
100 %		+ 50	836,489,777	0.000027
100 %		+ 60	836,489,710	0.000035
85 %		3.15	+ 20	836,490,003
115 %	4.26	+ 20	836,490,003	0.000000
BATT. ENDPOINT	2.98	+ 20	836,490,003	0.000000

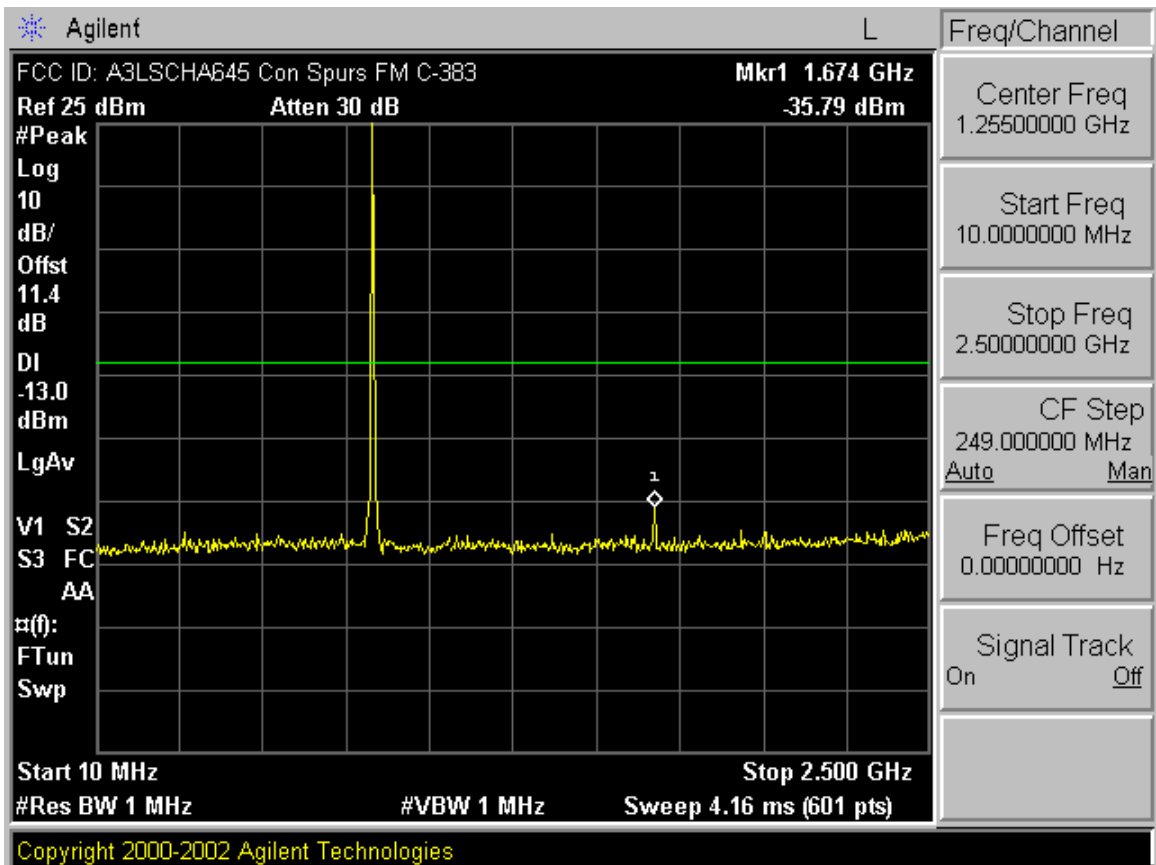
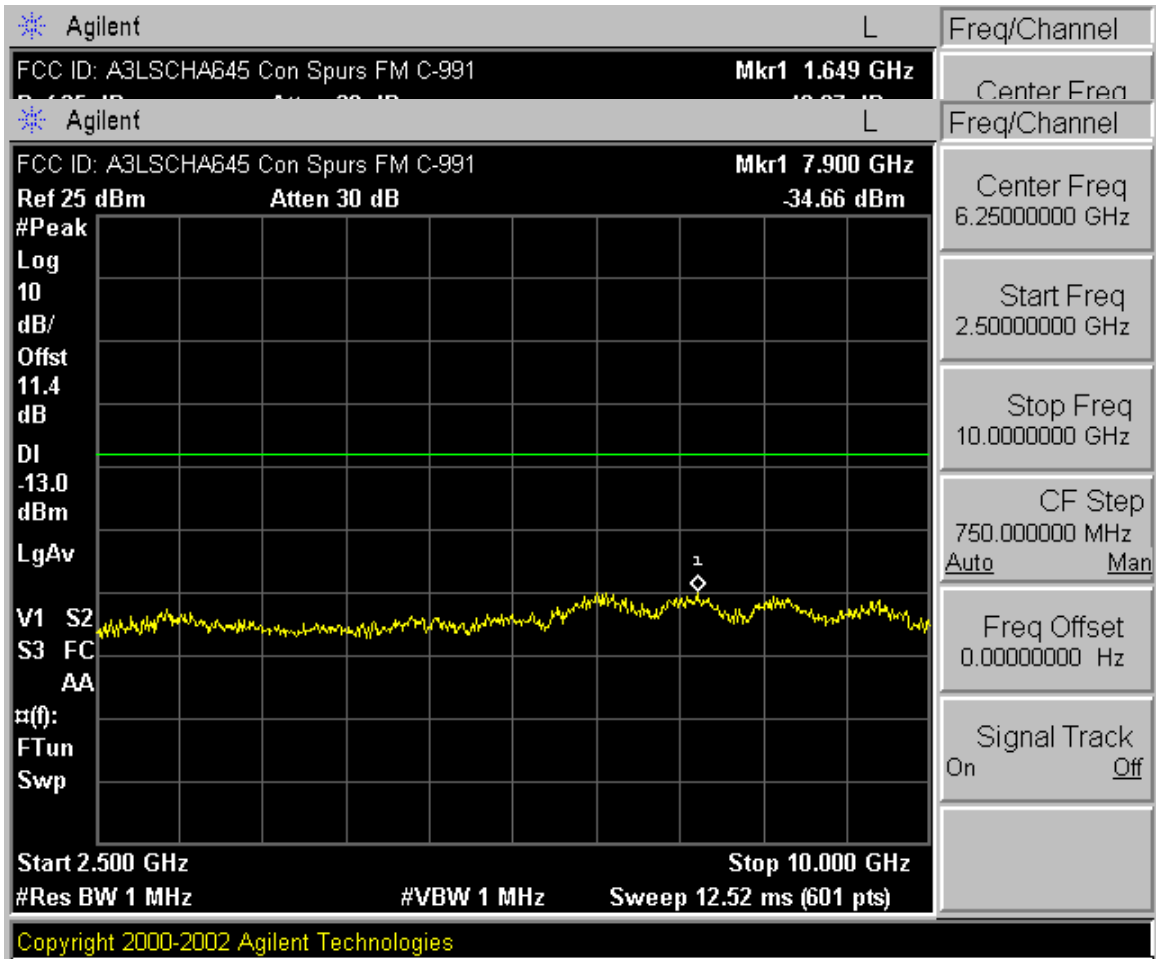
PCTEST™ PT. 22/24 SUPPLEMENT	 FCC MEASUREMENT SUPPLEMENT 			Reviewed By: Quality Manager
Test Report S/N: 06021710095	Test Dates: FEB. 20, 2006	Phone Type: Tri-Mode Dual-Band	FCC ID: A3LSPHA645	Page 5 of 6

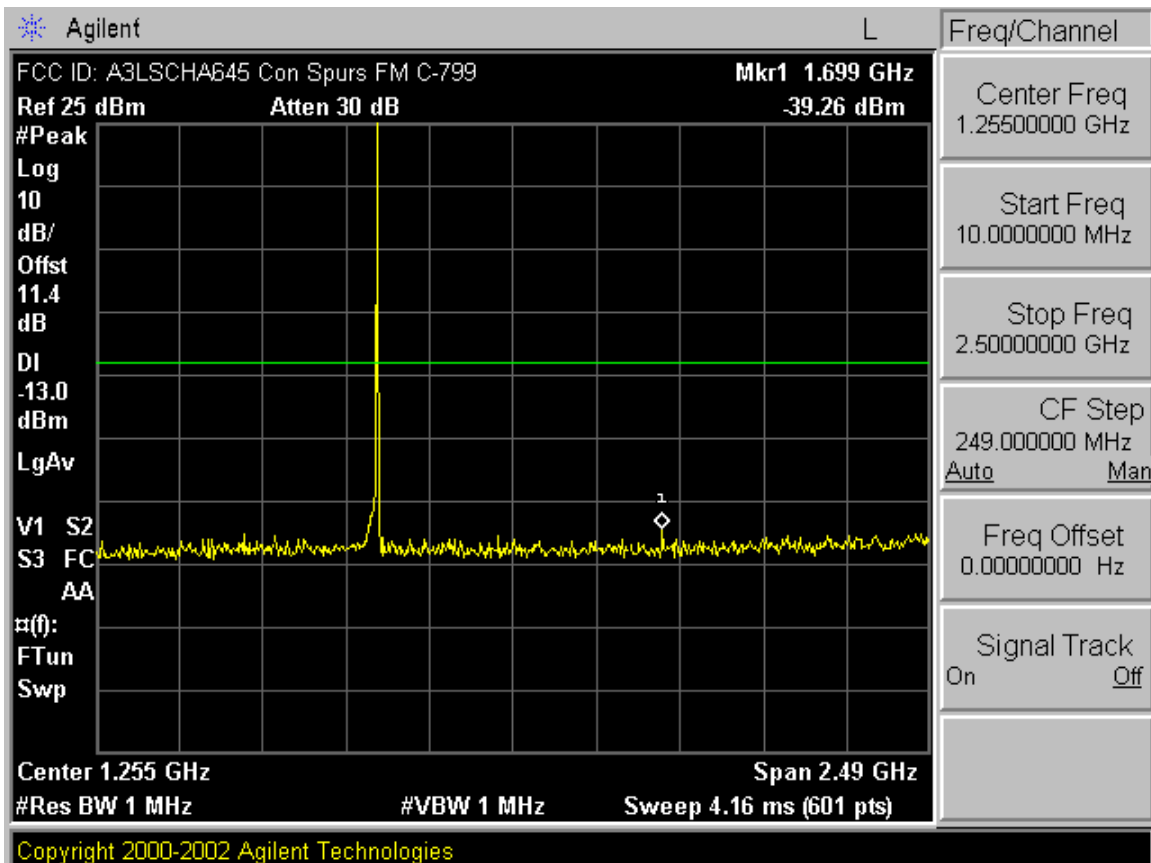
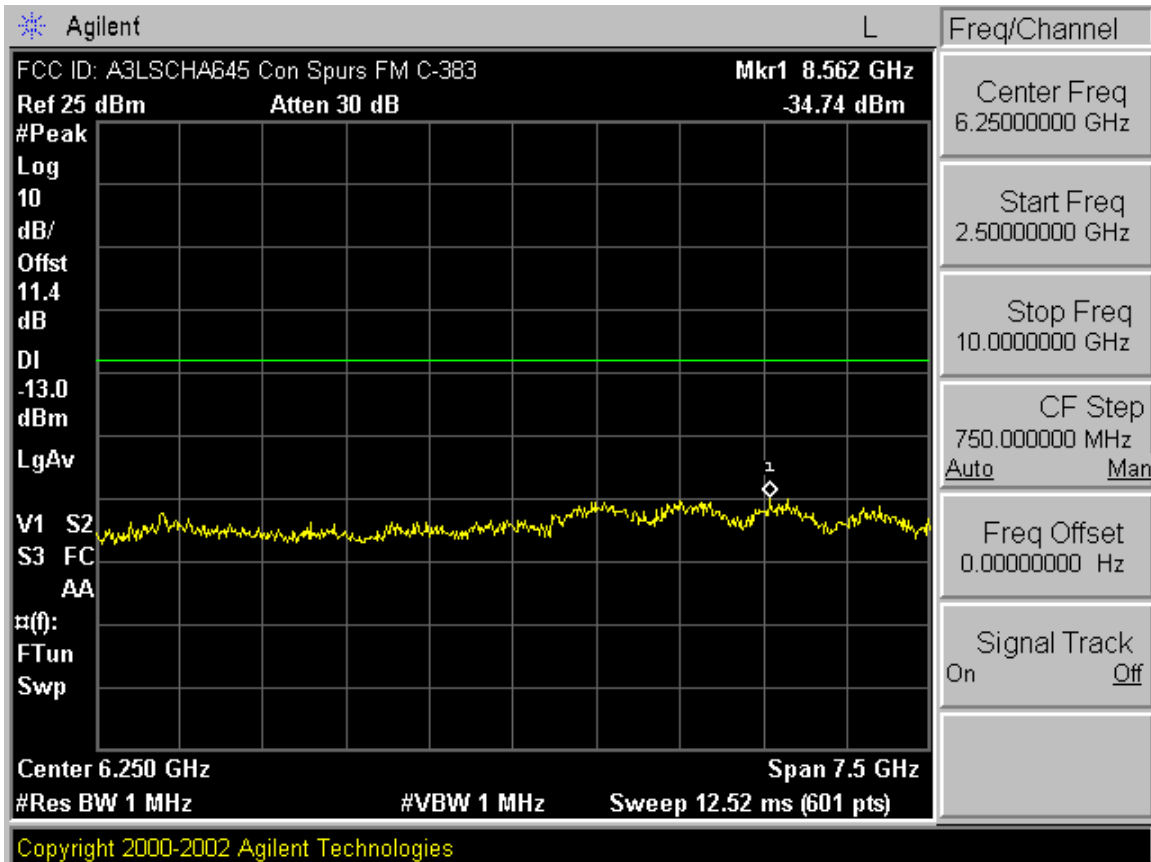
3.1 Test Data (Continued)

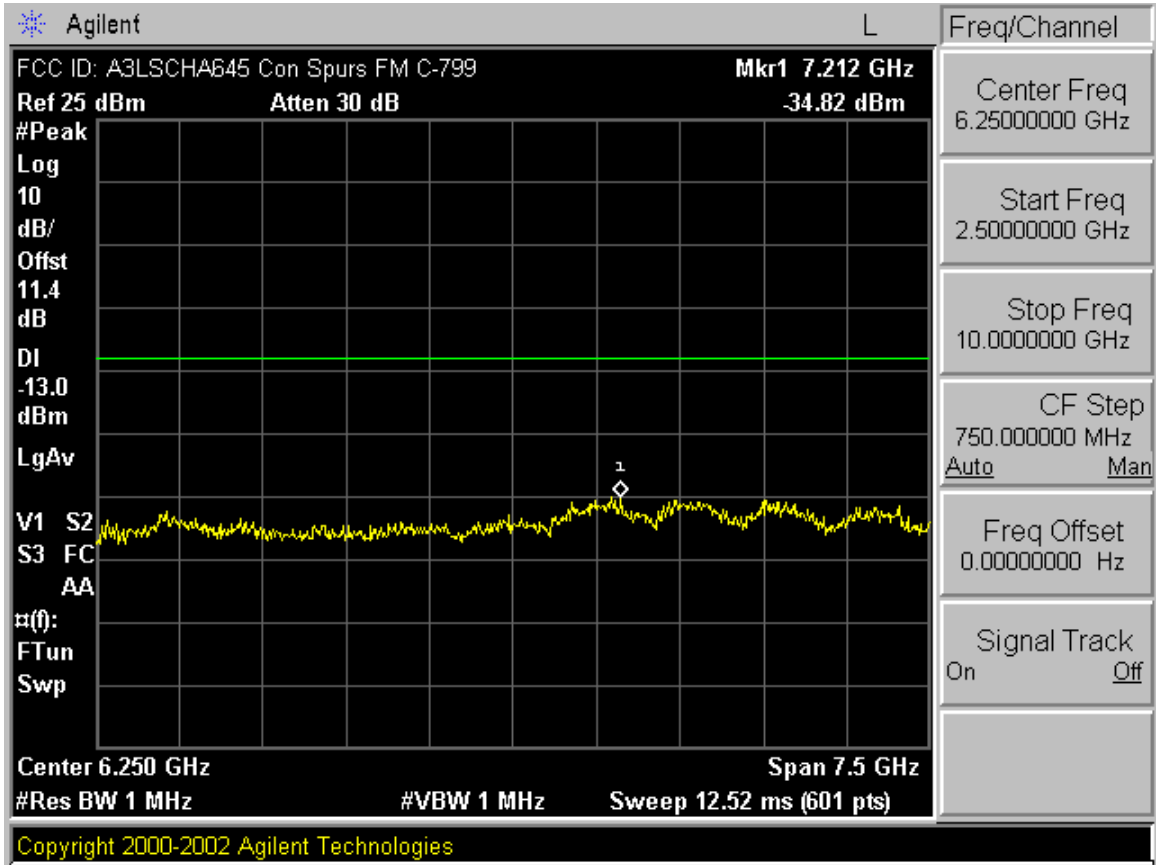
3.3 FREQUENCY STABILITY (AMPS)



PCTEST™ PT. 22/24 SUPPLEMENT	 FCC MEASUREMENT SUPPLEMENT			Reviewed By: Quality Manager
Test Report S/N: 06021710095	Test Dates: FEB. 20, 2006	Phone Type: Tri-Mode Dual-Band	FCC ID: A3LSPHA645	Page 6 of 6





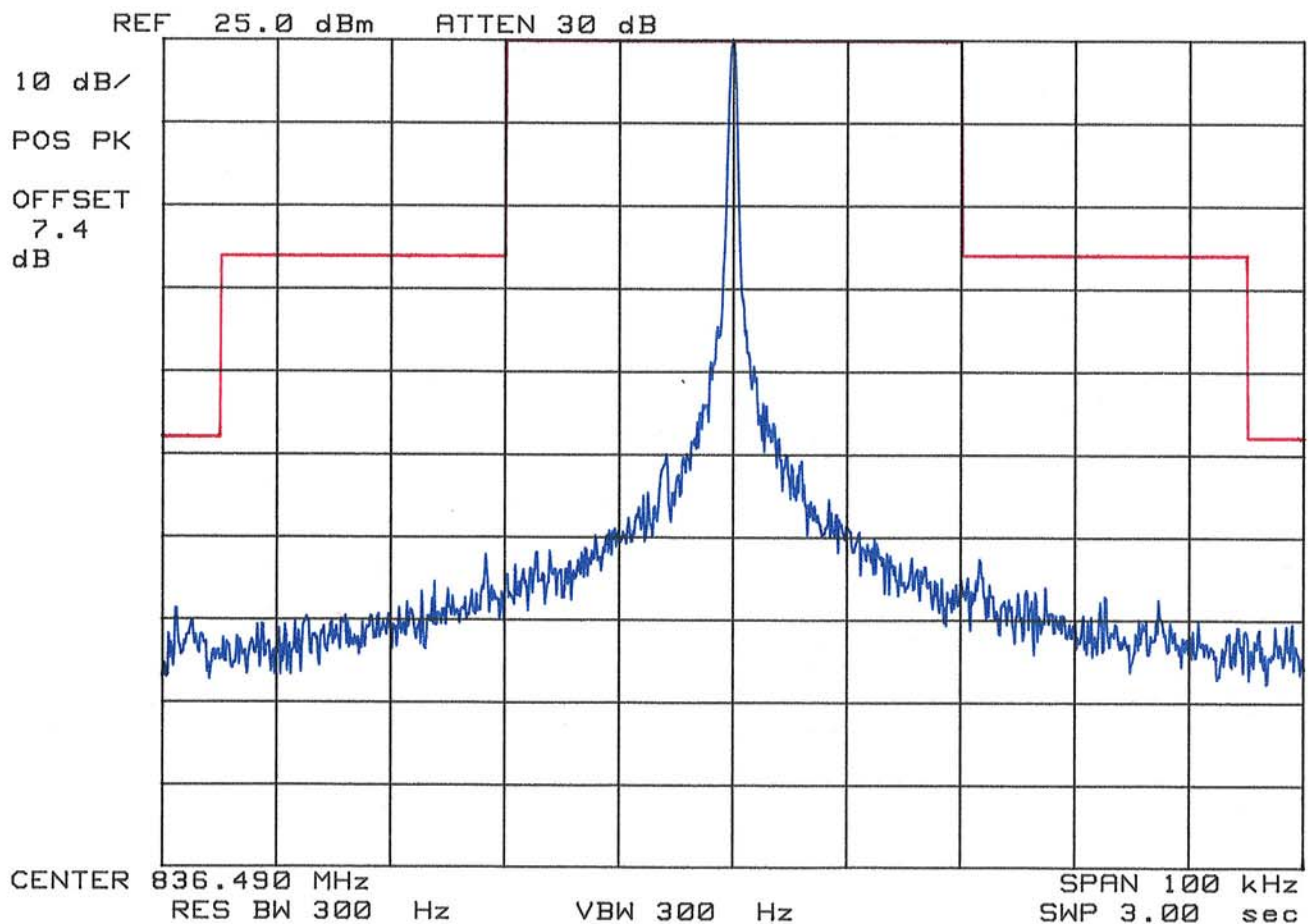


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSCHA645
SAMSUNG Electronics
Tri-Mode Phone
FM Channel 383
Operating Frequency: 836.490 MHz
Output Power : 25.0 dBm

Test Mode:Unmodulated Signal

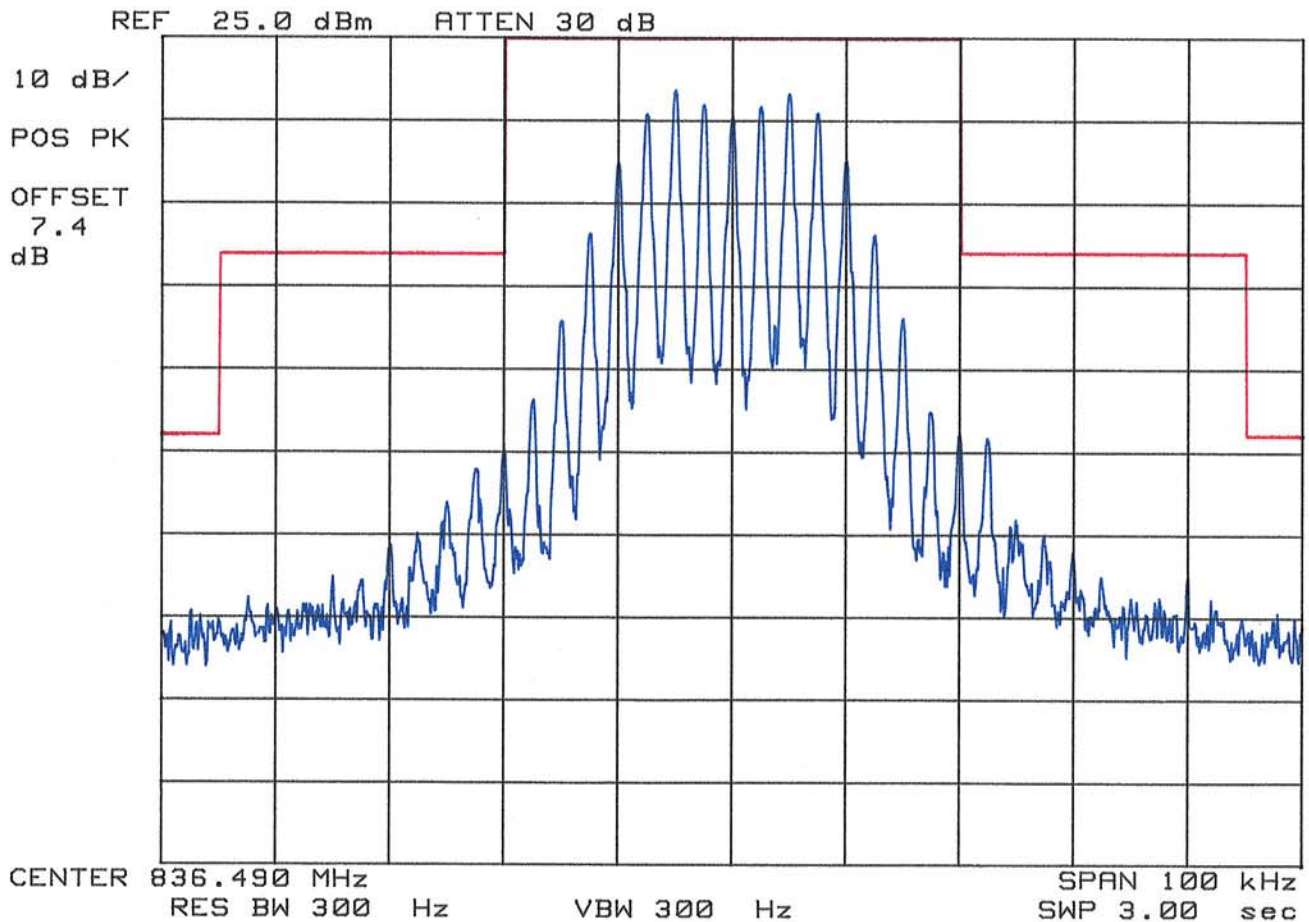


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSCHA645
SAMSUNG Electronics
Tri-Mode Phone
FM Channel 383
Operating Frequency: 836.490 MHz
Output Power : 25.0 dBm

Test Mode:Voice

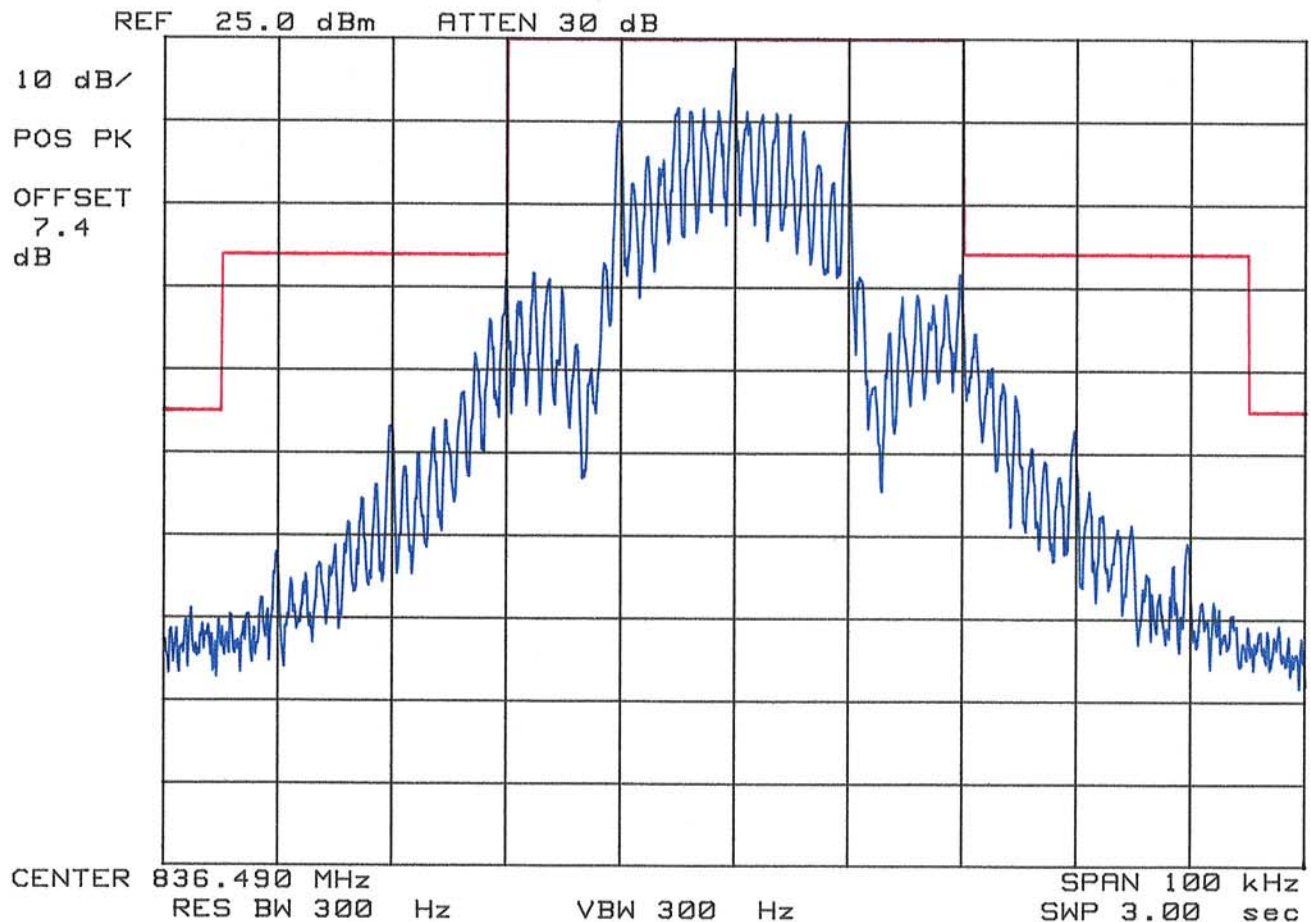


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSCHA645
SAMSUNG Electronics
Tri-Mode Phone
FM Channel 383
Operating Frequency: 836.490 MHz
Output Power : 25.0 dBm

Test Mode:Wide Band Data

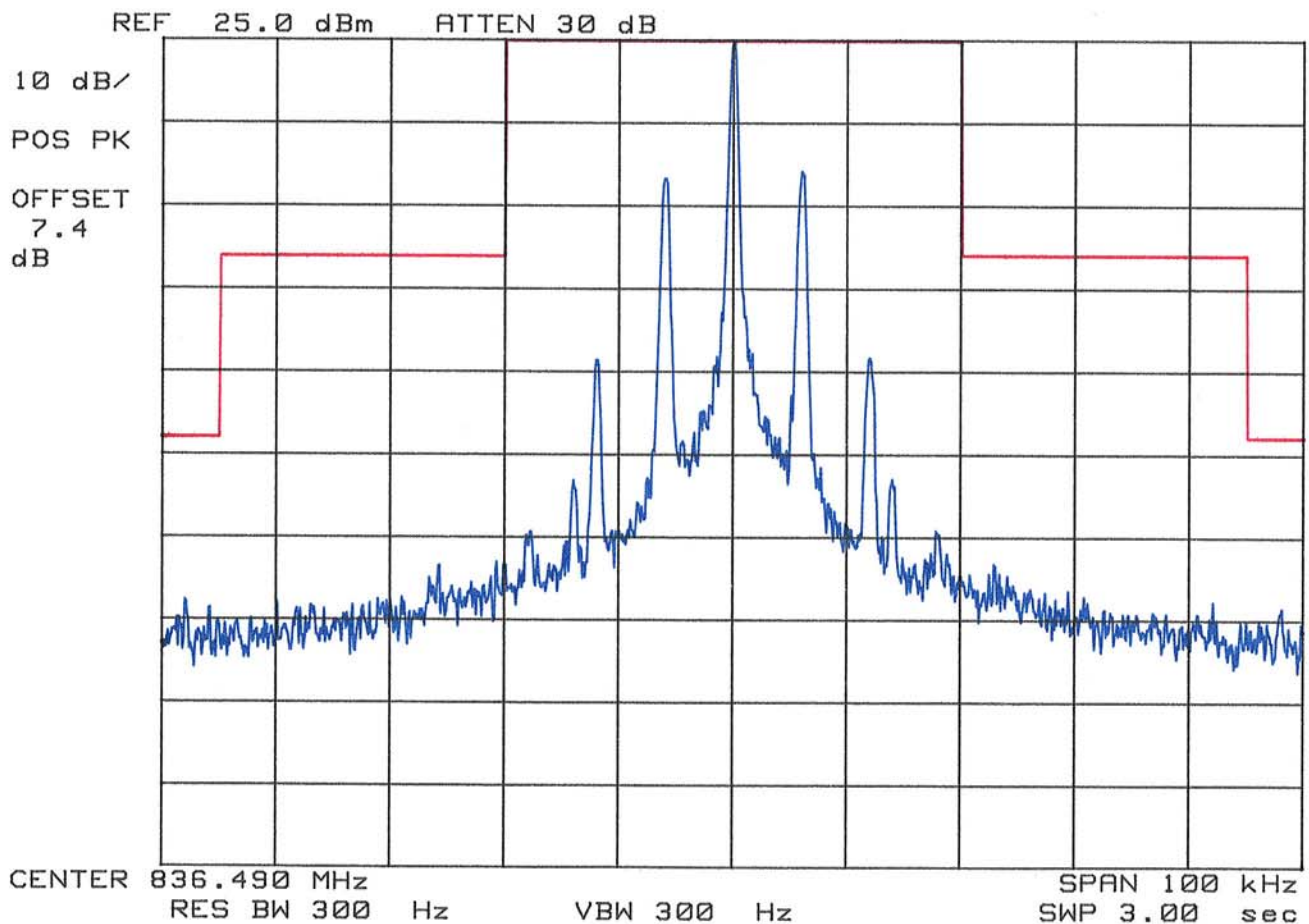


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSCHA645
SAMSUNG Electronics
Tri-Mode Phone
FM Channel 383
Operating Frequency: 836.490 MHz
Output Power : 25.0 dBm

Test Mode:SAT

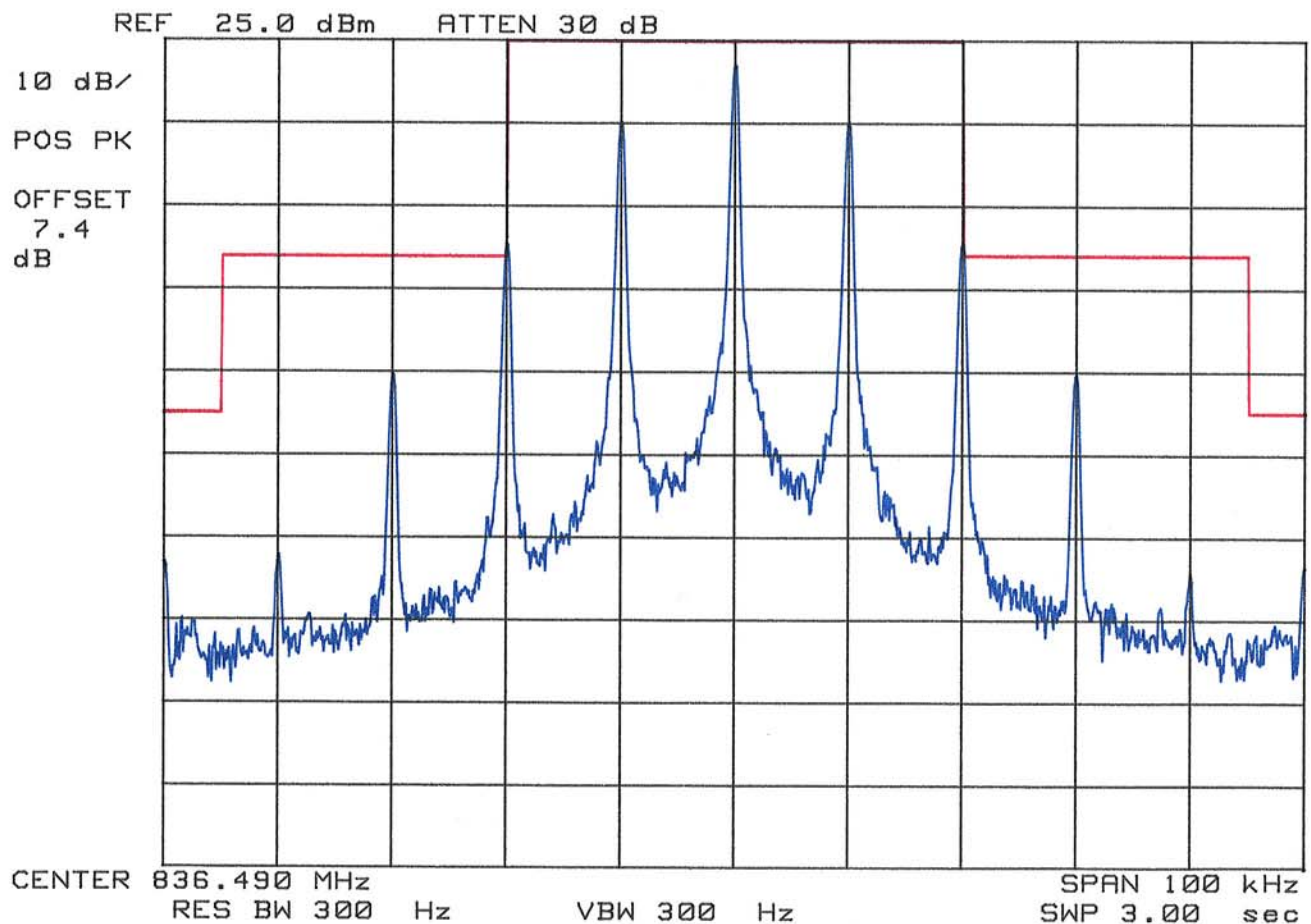


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSCHA645
SAMSUNG Electronics
Tri-Mode Phone
FM Channel 383
Operating Frequency: 836.490 MHz
Output Power : 25.0 dBm

Test Mode:ST

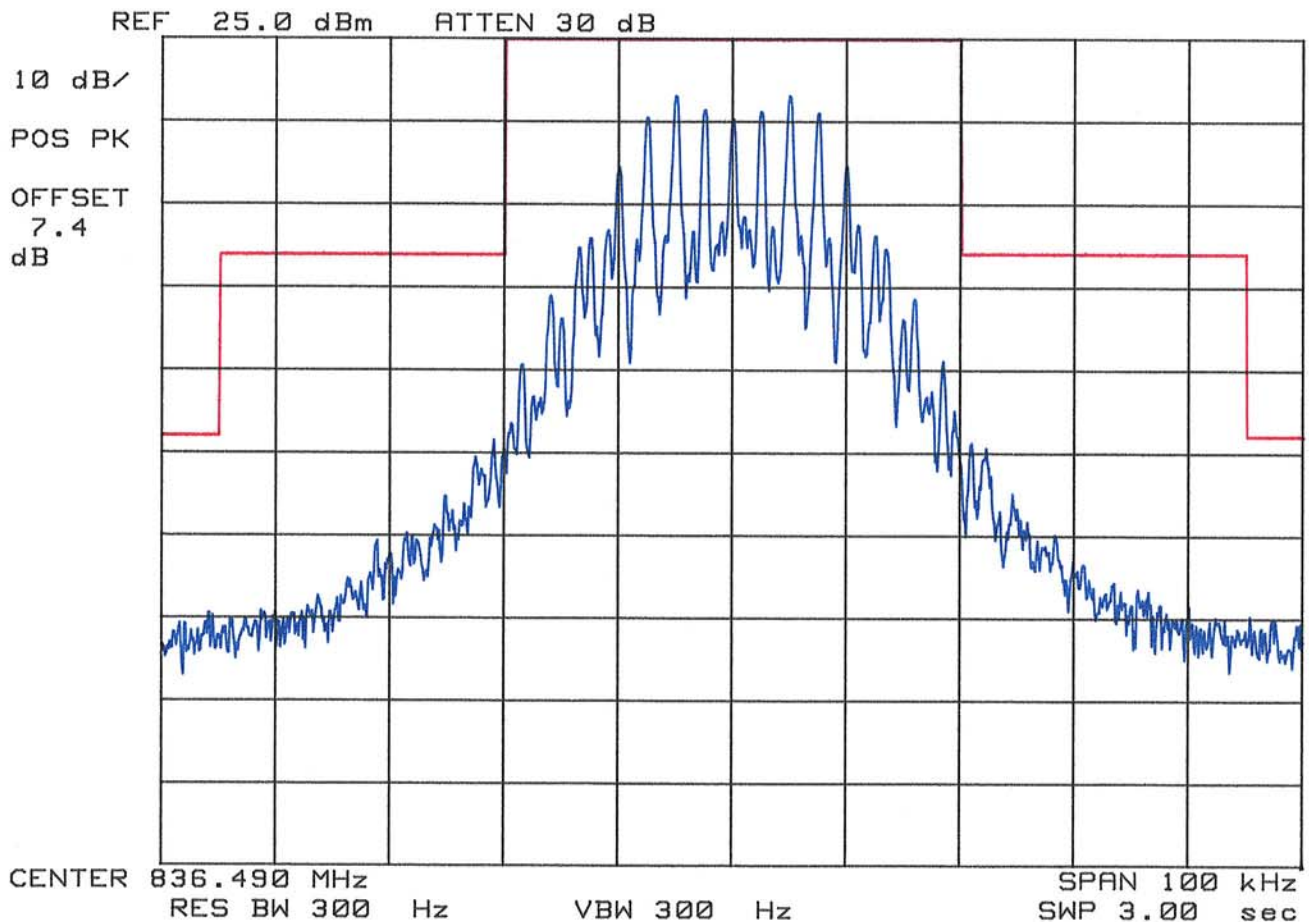


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSCHA645
SAMSUNG Electronics
Tri-Mode Phone
FM Channel 383
Operating Frequency: 836.490 MHz
Output Power : 25.0 dBm

Test Mode:SAT + Voice



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSCHA645

SAMSUNG Electronics

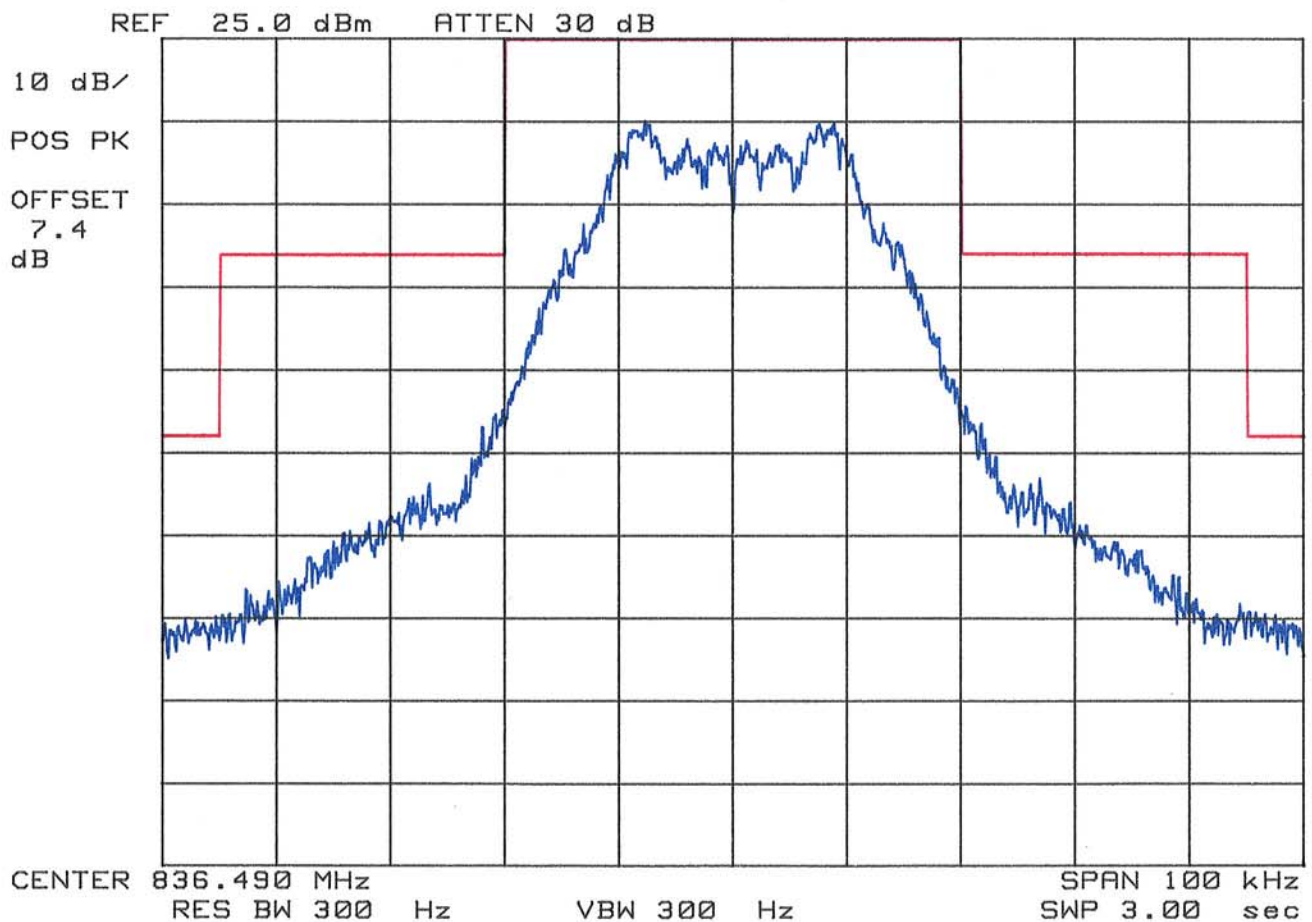
Tri-Mode Phone

FM Channel 383

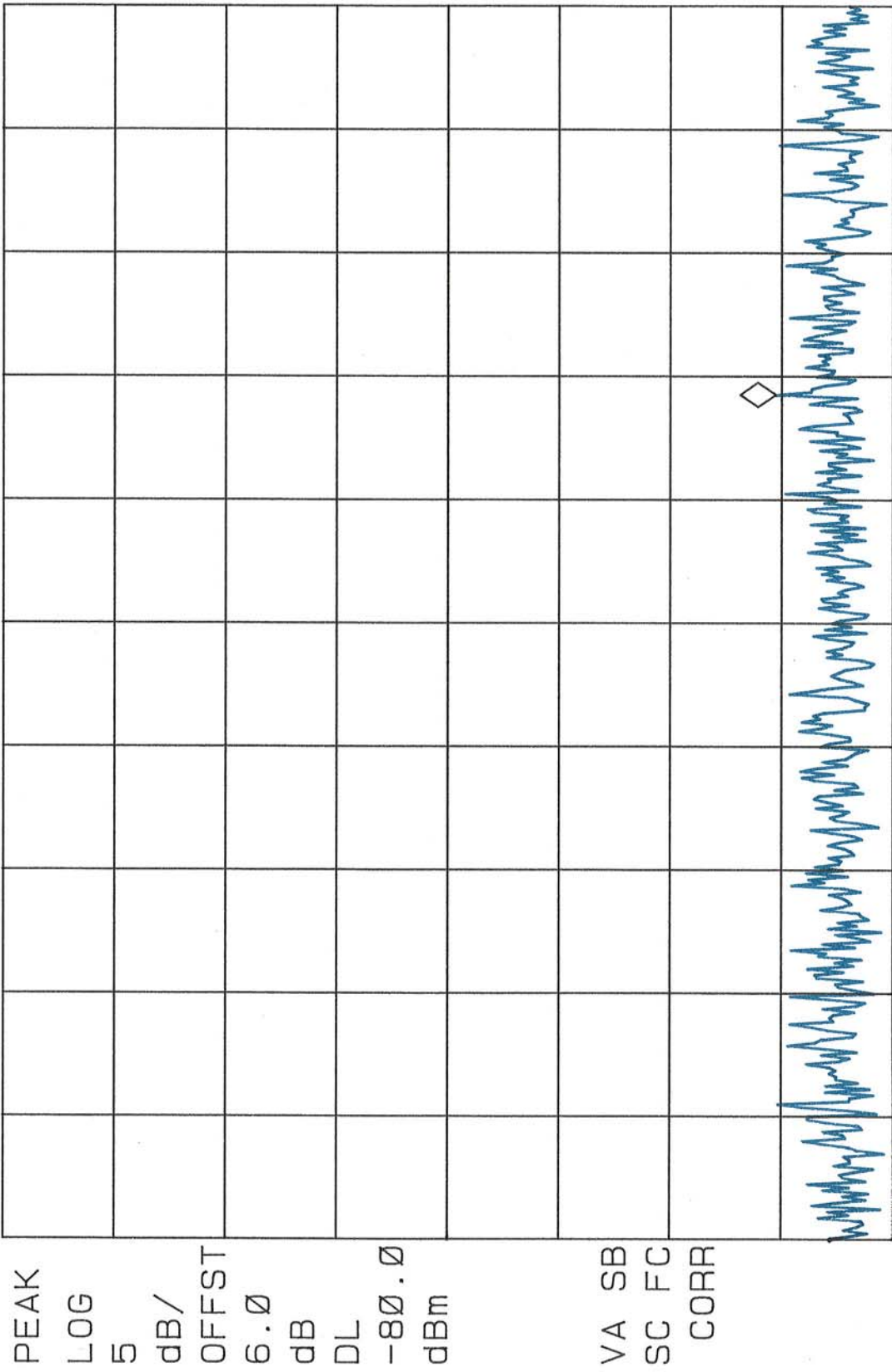
Operating Frequency: 836.490 MHz

Output Power : 25.0 dBm

Test Mode:SAT + DTMF



FCC ID : A3LSCHA645 MKR 886.12 MHz
 REF -60.0 dBm AMPS Mode -94.74 dBm
 ATTEN 10 dB PG 25.0 dB



PEAK
 LOG
 5
 dB/
 OFFST
 6.0
 dB
 DL
 -80.0
 dBm
 VA SB
 SC FC
 CORR

START 869.00 MHz STOP 894.00 MHz
 #RES BW 100 KHZ #VBW 300 KHZ SWP 20 msec

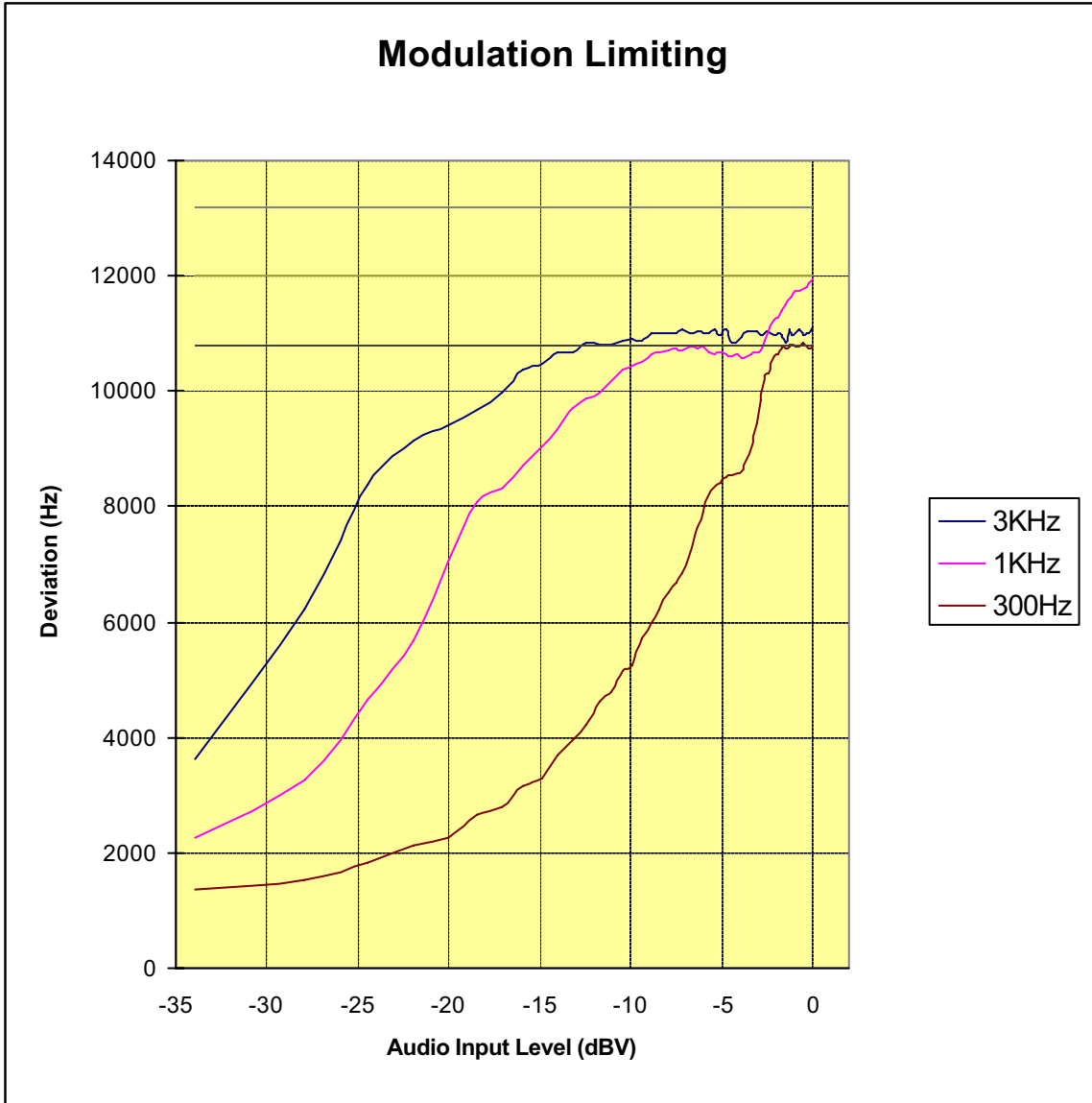
PCTEST Engineering Lab., Inc.

SUBJECT: Modulation Characteristics
FCC Part 24/22

Test Report No.: 0602170095
Test Date: 02.20.2006

EUT: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)
Model: SCH-A645
FCC ID: A3LSCHA645

REFERENCE: 1 kHz = 0 dB



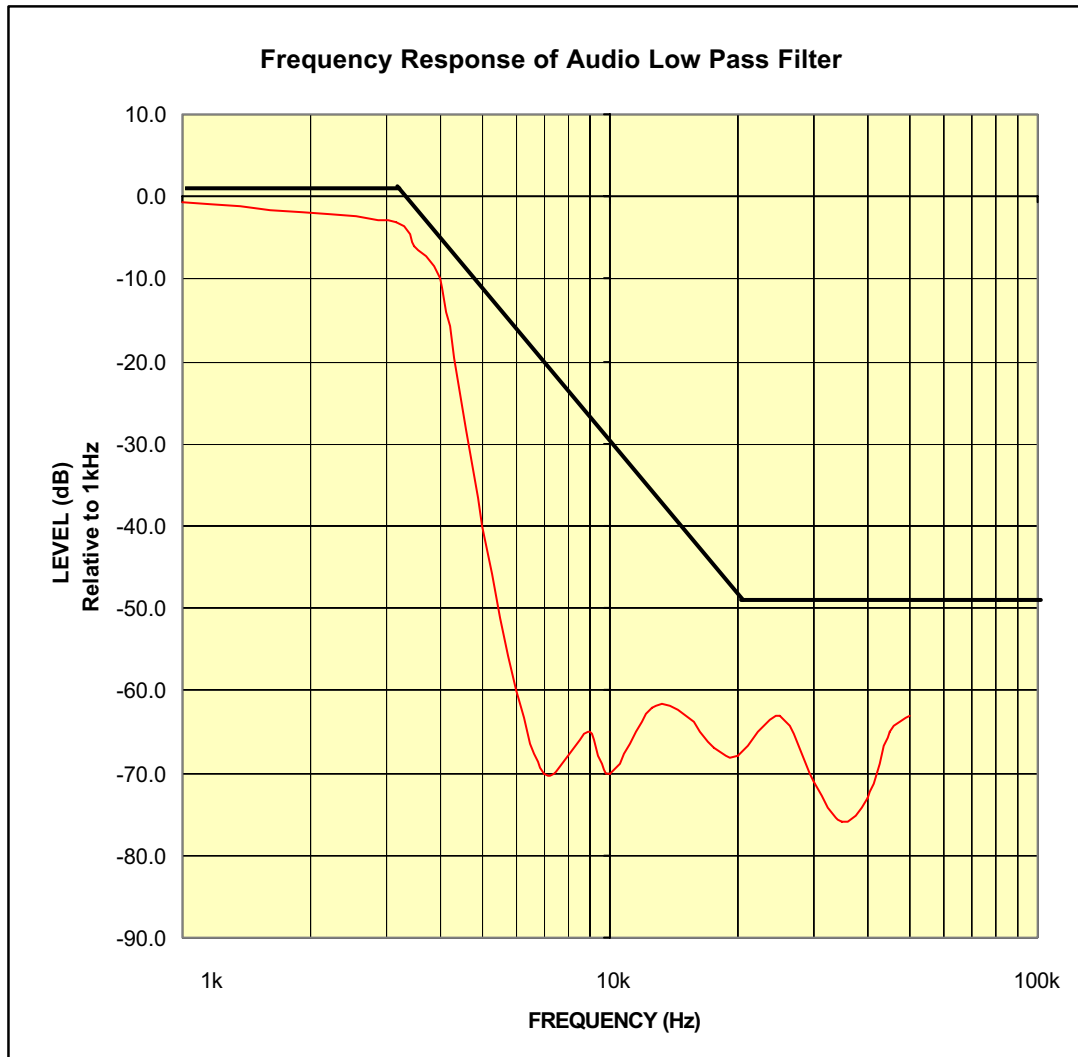
PCTEST Engineering Lab., Inc.

SUBJECT: Modulation Characteristics
FCC Part 24/22

Test Report No.: 0602170095
Test Date: 02.20.2006

EUT: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)
Model: SCH-A645
FCC ID: A3LSCHA645

REFERENCE: 1 kHz = 0 dB



PCTEST Engineering Lab., Inc.

SUBJECT: Modulation Characteristics
FCC Part 24/22

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