

1.1 Test Data

1.2 Effective Radiated Power Output

A. POWER: Low (Analog Mode)

Freq. Tuned (MHz)	REF. LEVEL (dBm)	AFCL (dB)	POL (H/V)	ERP (W)	ERP (dBm)
824.04	-36.400	31.65	H	0.003	4.873
836.49	-36.275	31.81	H	0.003	5.154
848.97	-36.600	31.96	H	0.003	4.985

B. POWER: High (Analog Mode)

Freq. Tuned (MHz)	REF. LEVEL (dBm)	AFCL (dB)	POL (H/V)	ERP (W)	ERP (dBm)	BATTERY
824.04	-16.400	31.65	H	0.30713	24.873	Standard
836.49	-16.275	31.81	H	0.32763	25.154	Standard
848.97	-16.600	31.96	H	0.31513	24.985	Standard

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.

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: 25.154 dBm = 0.328 W
 MODULATION SIGNAL: FM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 38.15 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1648.08	-52.38	6.10	-46.28	H	71.4
2472.12	-65.88	6.70	-59.18	H	84.3
3296.16	-77.48	6.80	-70.68	H	95.8
4120.20	-85.78	6.50	-79.28	H	104.4
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.

PCTEST™ PT. 22/24 SUPPLEMENT		FCC MEASUREMENT SUPPLEMENT		Reviewed By: Quality Manager
Test Report S/N: 0609250841	Test Dates: September 28, 2006	Phone Type: Tri-mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: A3LSCHR210	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: 25.154 dBm = 0.328 W
 MODULATION SIGNAL: FM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 38.15 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1672.98	-49.88	6.10	-43.78	H	68.9
2509.47	-65.28	6.70	-58.58	H	83.7
3345.96	-73.48	6.80	-66.68	H	91.8
4182.45	-72.68	6.50	-66.18	H	91.3
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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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: 25.154 dBm = 0.328 W
 MODULATION SIGNAL: FM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 38.15 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1697.94	-60.78	6.10	-54.68	H	79.8
2546.91	-74.88	6.70	-68.18	H	93.3
3395.88	-81.28	6.80	-74.48	H	99.6
4244.85	-85.78	6.50	-79.28	H	104.4
5093.82	-83.98	7.00	-76.98	H	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: 0609250841	Test Dates: September 28, 2006	Phone Type: Tri-mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: A3LSCHR210	Page 4 of 6

3.1 Test Data

3.2 FREQUENCY STABILITY (AMPS)

OPERATING FREQUENCY: 836,490,009 Hz

CHANNEL: 383

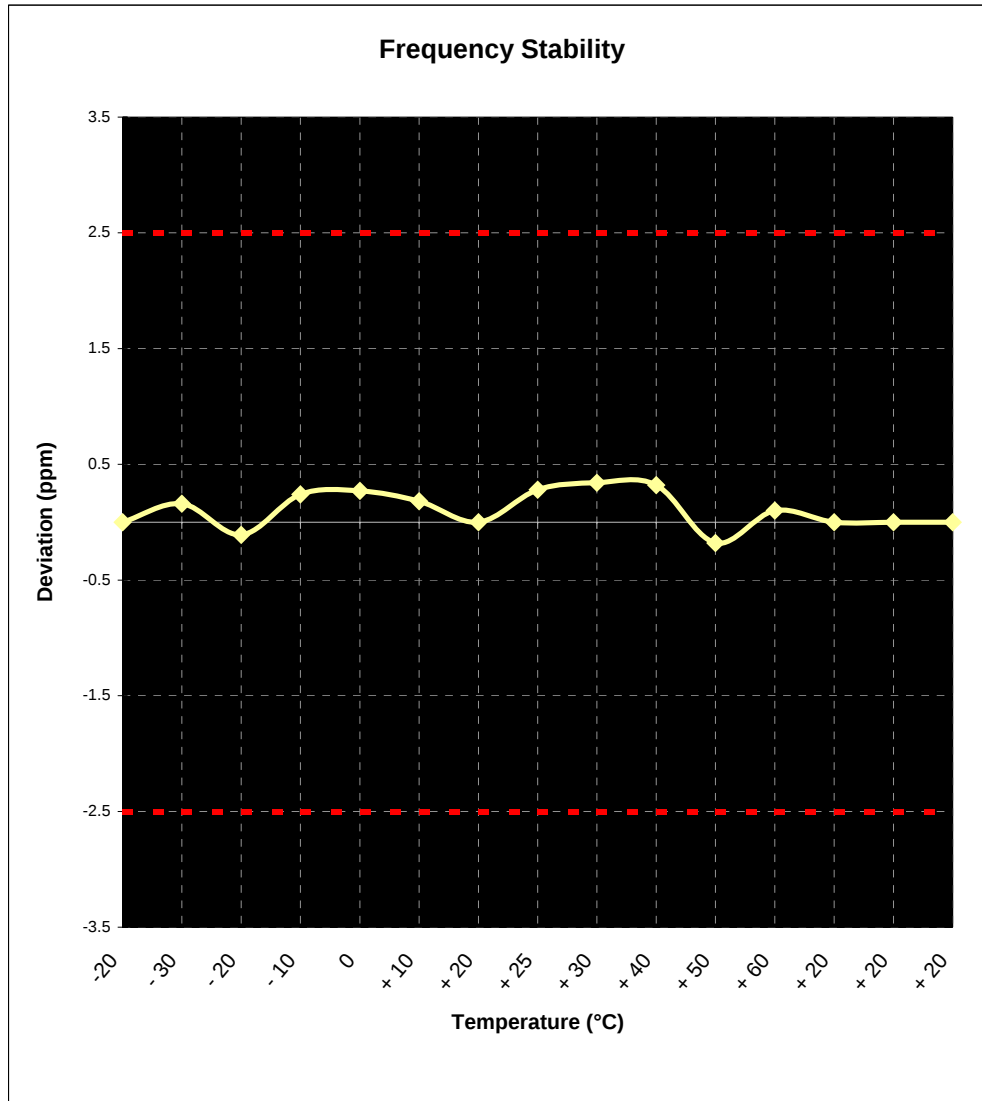
REFERENCE VOLTAGE: 3.7 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

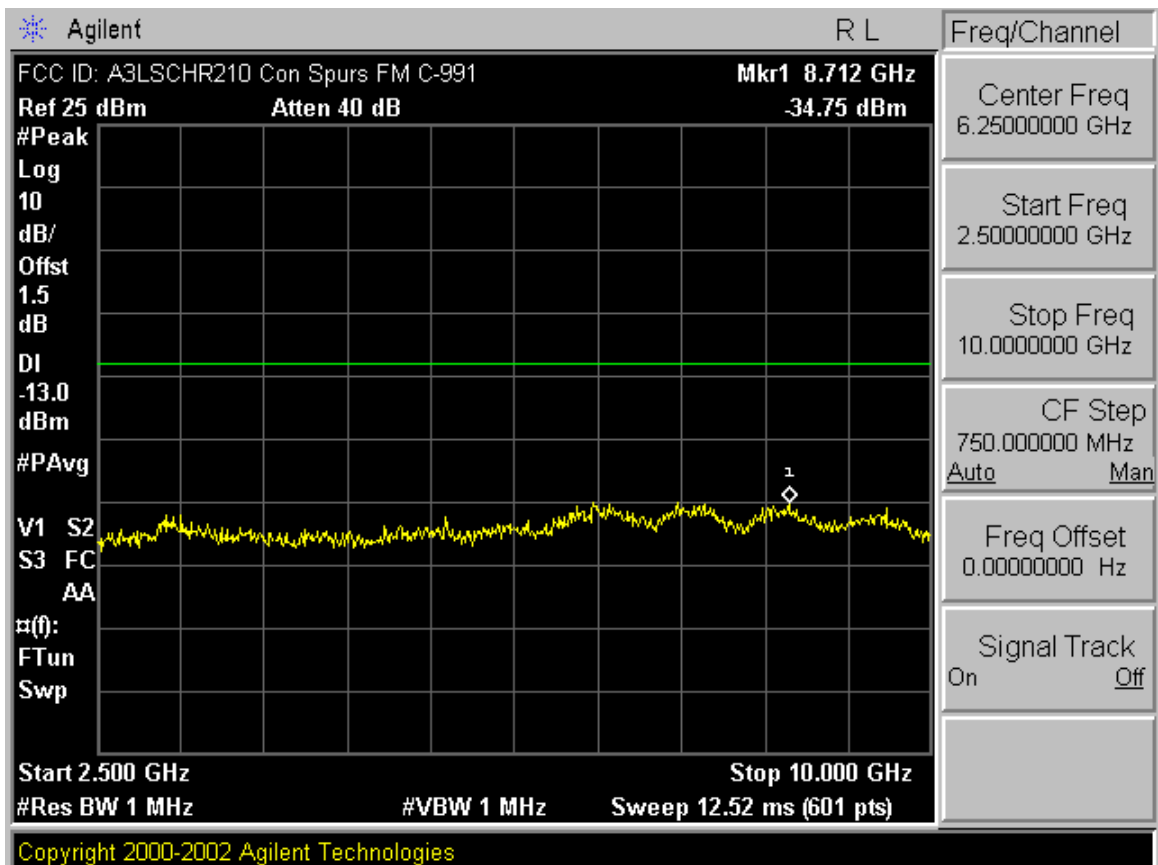
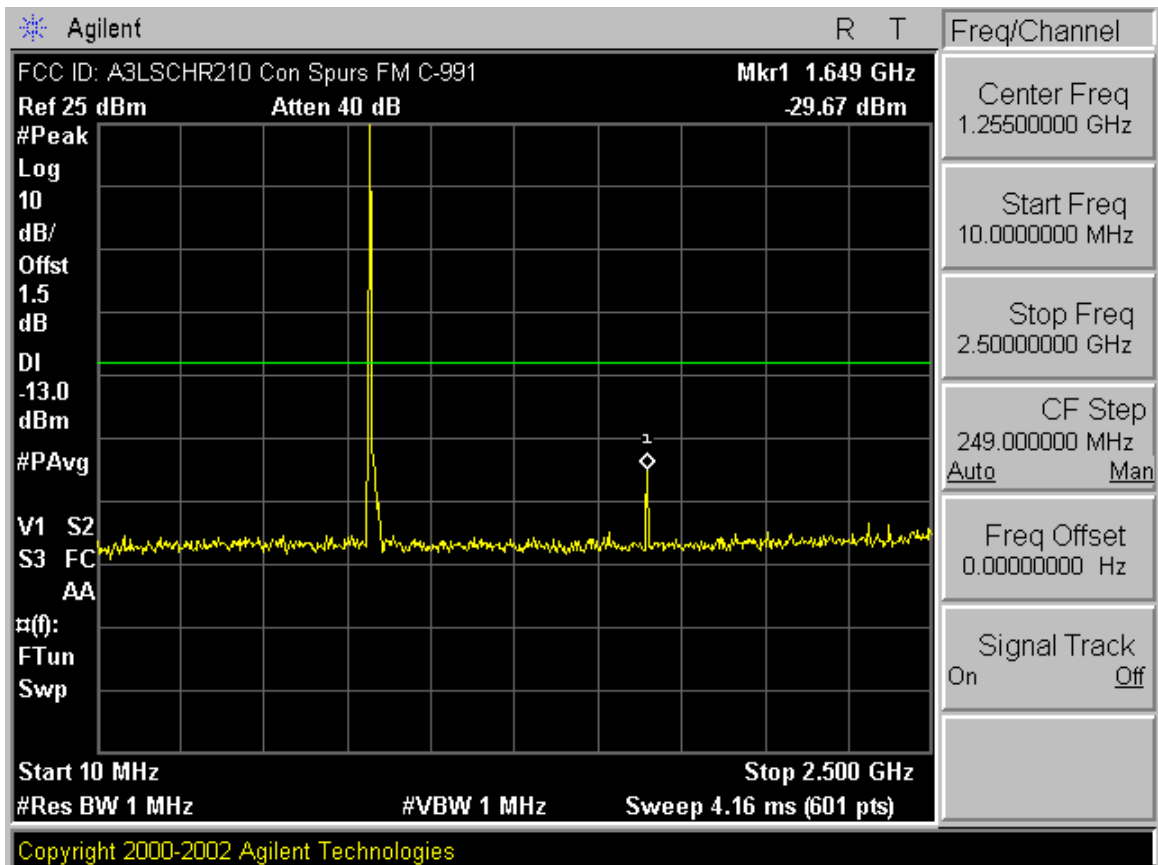
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQ. (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	836,490,009	0.00	0.000000
100 %		- 30	836,489,875	133.84	0.000016
100 %		- 20	836,490,101	-92.01	-0.000011
100 %		- 10	836,489,808	200.76	0.000024
100 %		0	836,489,783	225.85	0.000027
100 %		+ 10	836,489,858	150.57	0.000018
100 %		+ 20	836,490,009	0.00	0.000000
100 %		+ 25	836,489,775	234.22	0.000028
100 %		+ 30	836,489,725	284.41	0.000034
100 %		+ 40	836,489,741	267.68	0.000032
100 %		+ 50	836,490,160	-150.57	-0.000018
100 %		+ 60	836,489,925	83.65	0.000010
85 %	3.35	+ 20	836,490,009	0.00	0.000000
115 %	4.26	+ 20	836,490,009	0.00	0.000000
BATT. ENDPOINT	3.35	+ 20	836,490,009	0.00	0.000000

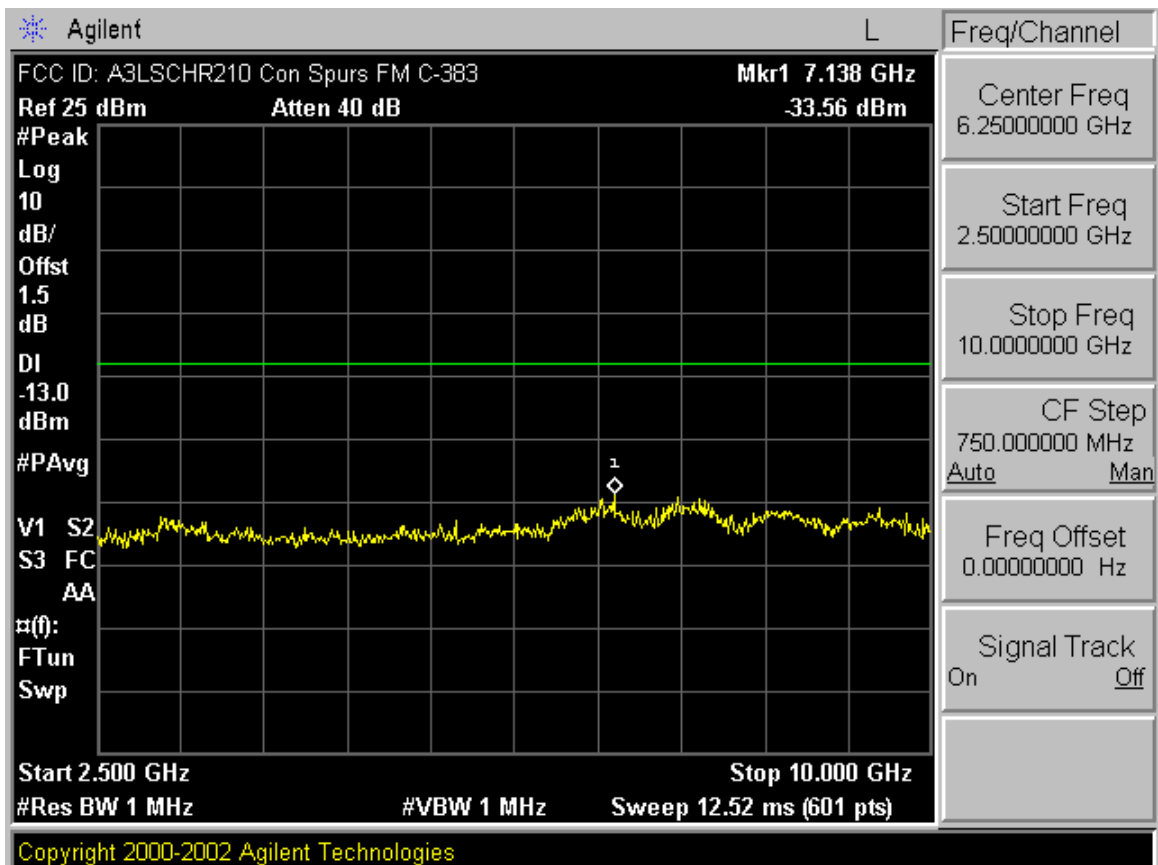
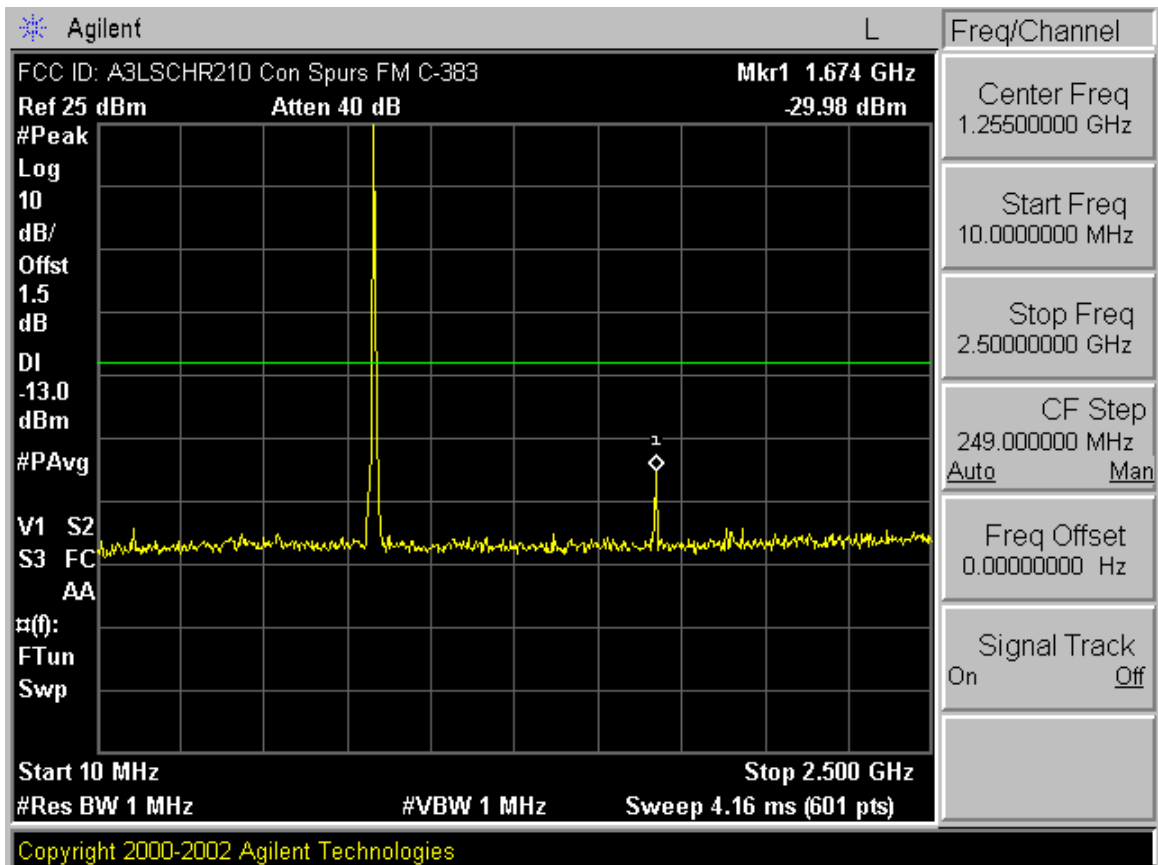
3.1 Test Data (Continued)

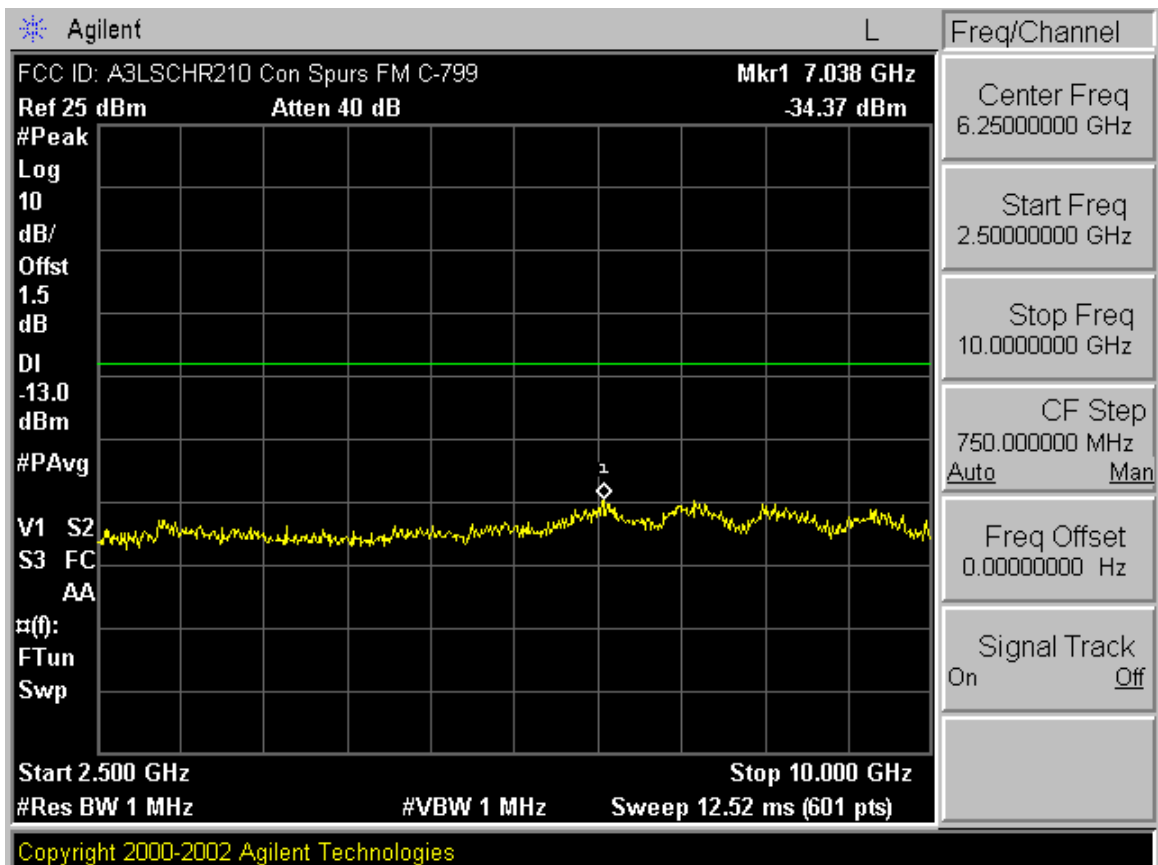
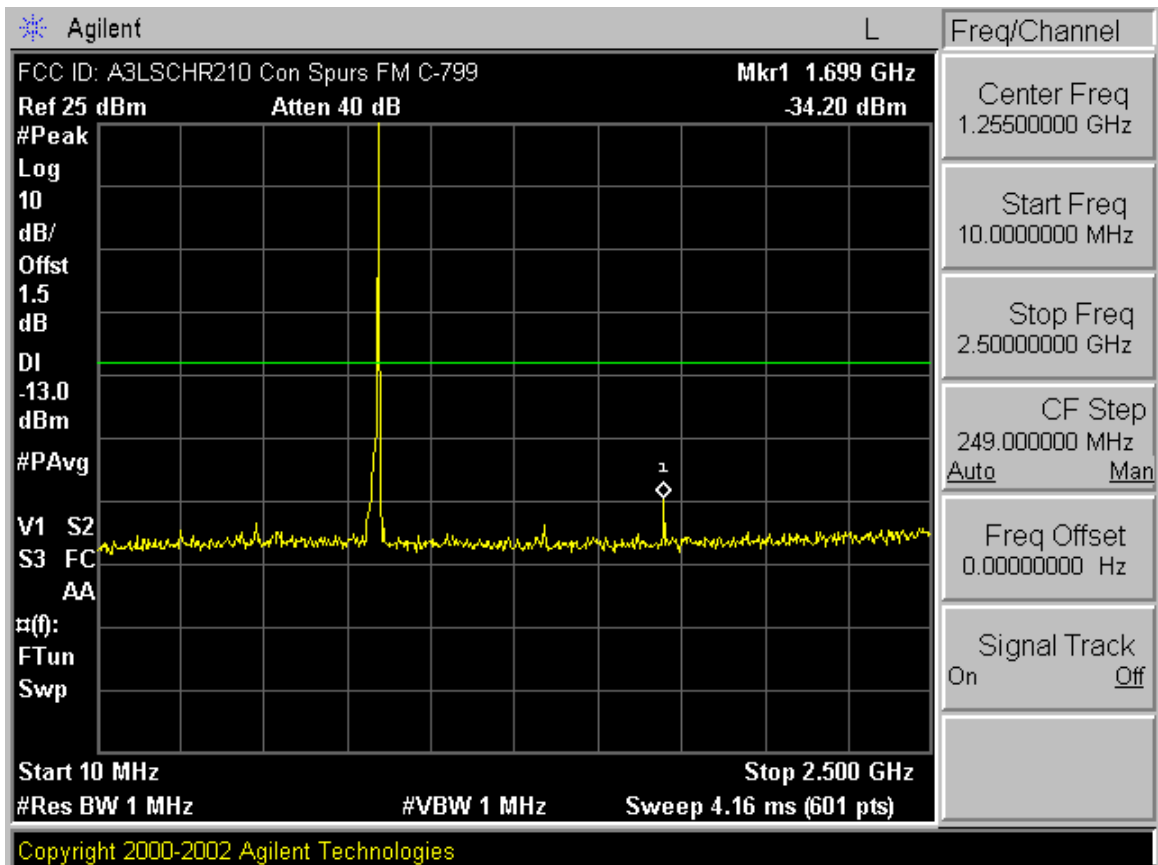
3.3 FREQUENCY STABILITY (AMPS)



PCTEST™ PT. 22/24 SUPPLEMENT		FCC MEASUREMENT SUPPLEMENT		Reviewed By: Quality Manager
Test Report S/N: 0609250841	Test Dates: September 28, 2006	Phone Type: Tri-mode Dual-Band Analog/PCS Phone (AMPS/CDMA)	FCC ID: A3LSCHR210	Page 6 of 6



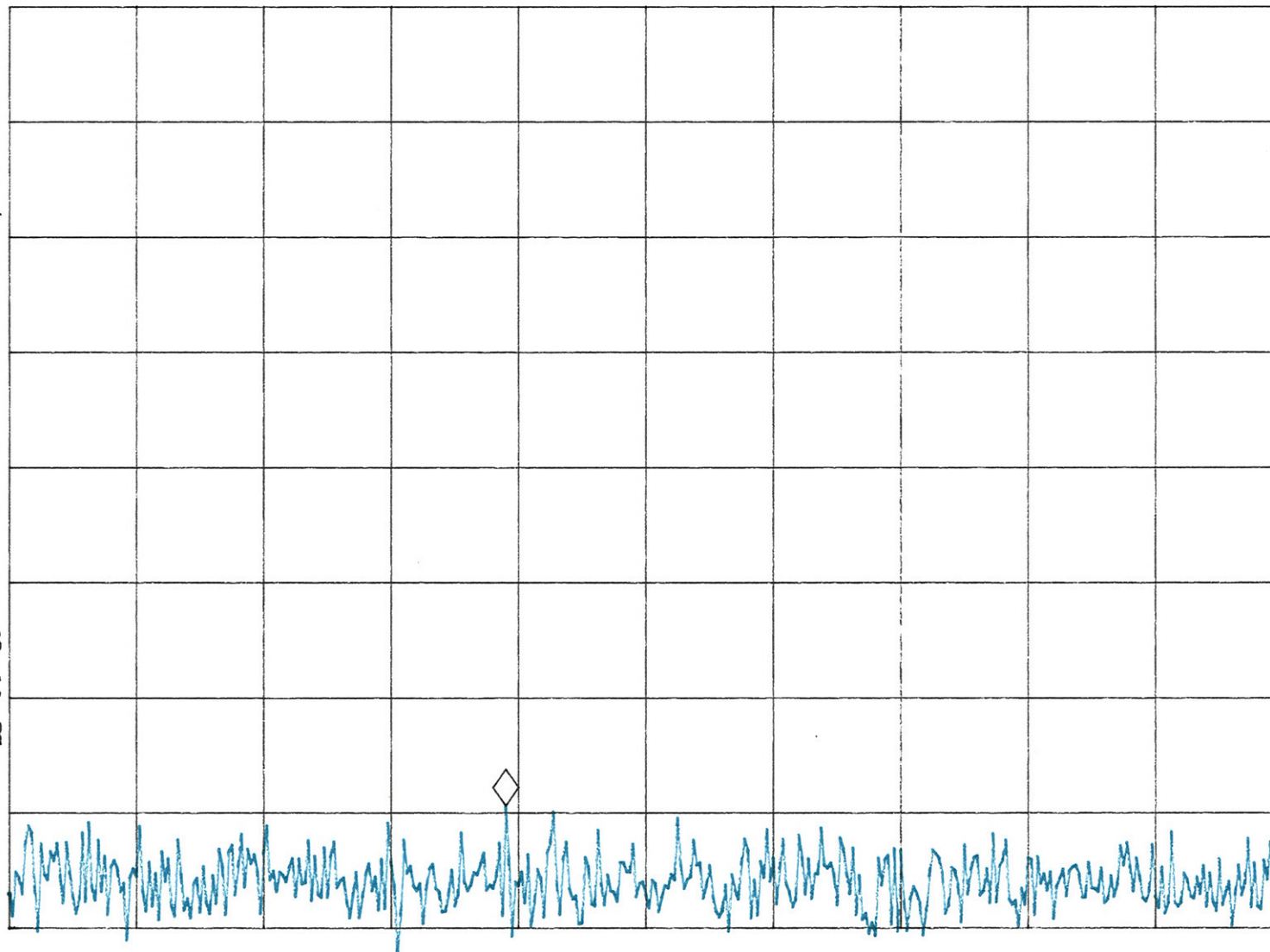




~~/~~ FCC ID: A3LSCHR210 AMPS Mode MKR 878.75 MHz
REF -60.0 dBm ATTEN 10 dB PG 26.0 dB -94.69 dBm

PEAK
LOG
5
dB/
OFFST
6.0
dB

VA SB
SC FC
CORR



START 869.00 MHz STOP 894.00 MHz
#RES BW 120 kHz #VBW 300 kHz #SWP 90 msec

PCTEST Engineering Laboratory Inc.

SPECTRUM PRESENTATION

FCC ID: A3LSCHR210
SAMSUNG
Tri-Mode Phone
FM Channel 383
Operating Frequency: 836.49 MHz
Output Power: 25.0 dBm
Test Mode: Unmodulated Signal

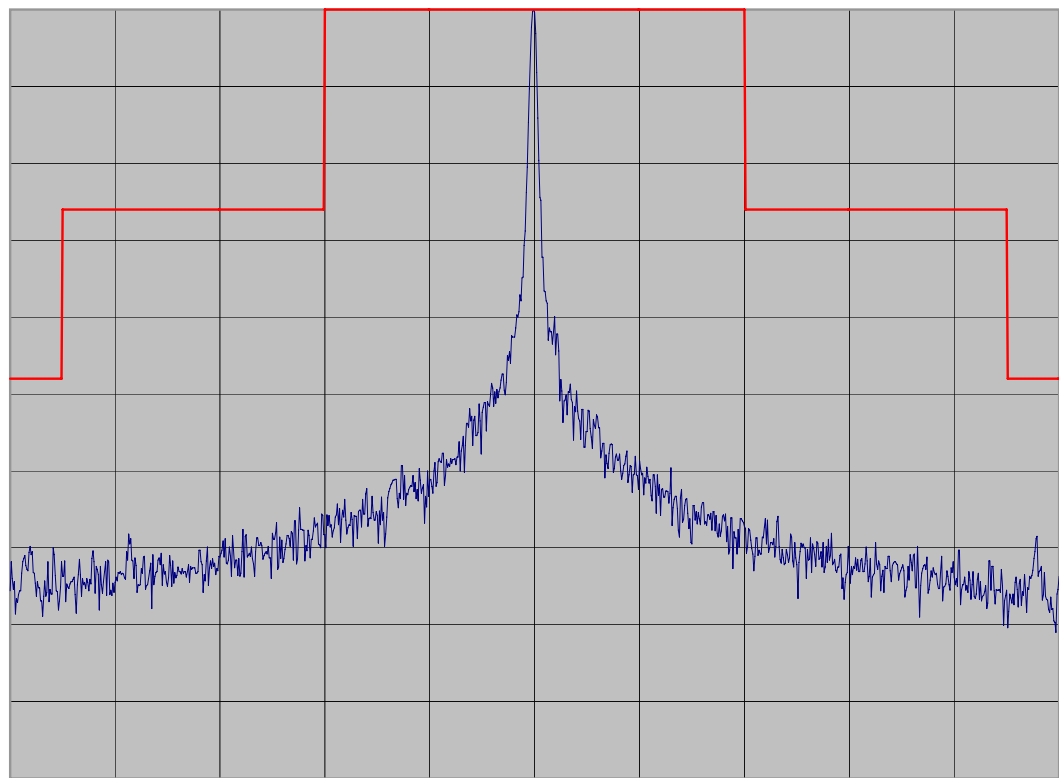
REF 25.0 dBm

ATTEN 40 dB

10 dB/

OFFSET
1.5
dB

CORR'D



CENTER 836.490 MHz
RES BW 300 Hz

VBW 300 Hz

SPAN 100 kHz
SWP 3.00 sec

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SPECTRUM PRESENTATION

FCC ID: A3LSCHR210
SAMSUNG
Tri-Mode Phone
FM Channel 383
Operating Frequency: 836.49 MHz
Output Power: 25.0 dBm
Test Mode: Voice

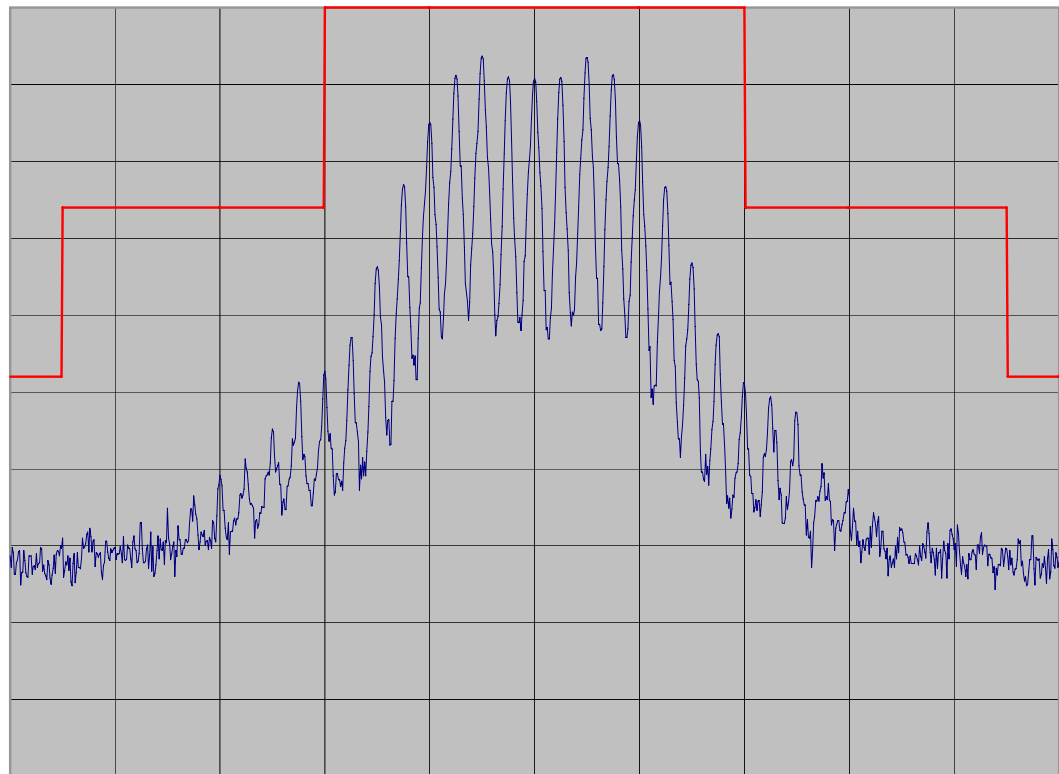
REF 25.0 dBm

ATTEN 40 dB

10 dB/

OFFSET
1.5
dB

CORR'D



CENTER 836.490 MHz
RES BW 300 Hz

VBW 300 Hz

SPAN 100 kHz
SWP 3.00 sec

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SPECTRUM PRESENTATION

FCC ID: A3LSCHR210
SAMSUNG
Tri-Mode Phone
FM Channel 383
Operating Frequency: 836.49 MHz
Output Power: 25.0 dBm
Test Mode: Wide Band Data

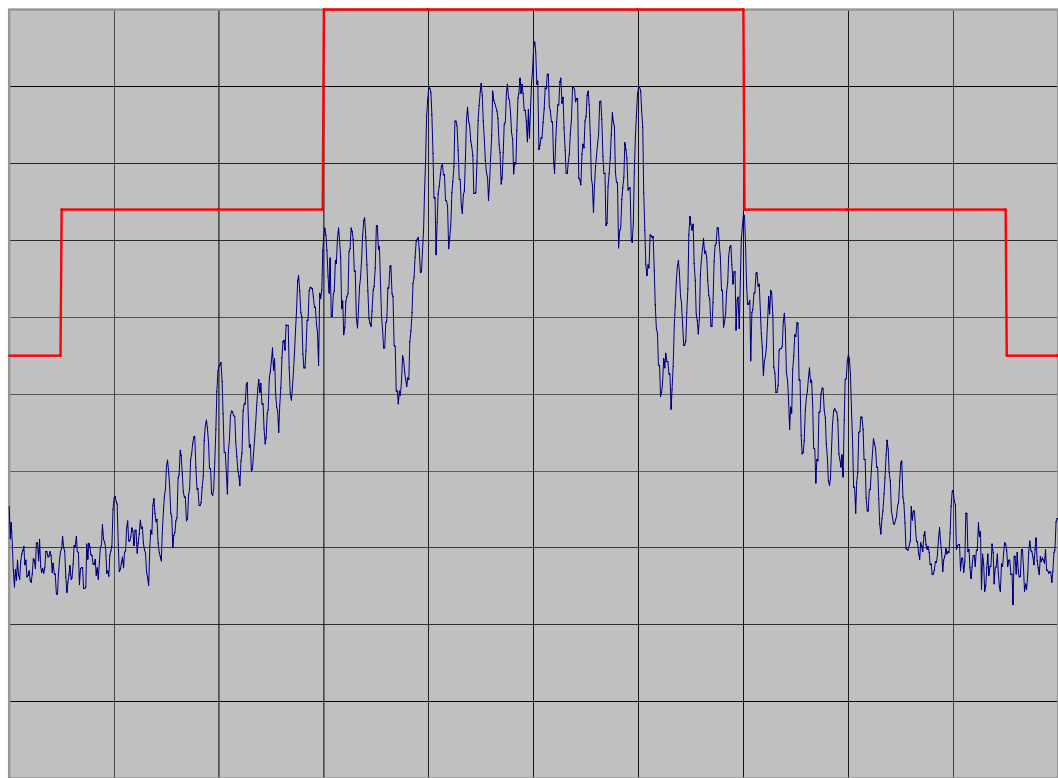
REF 25.0 dBm

ATTEN 40 dB

10 dB/

OFFSET
1.5
dB

CORR'D



CENTER 836.490 MHz
RES BW 300 Hz

VBW 300 Hz

SPAN 100 kHz
SWP 3.00 sec

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SPECTRUM PRESENTATION

FCC ID: A3LSCHR210
SAMSUNG
Tri-Mode Phone
FM Channel 383
Operating Frequency: 836.49 MHz
Output Power: 25.0 dBm
Test Mode: ST

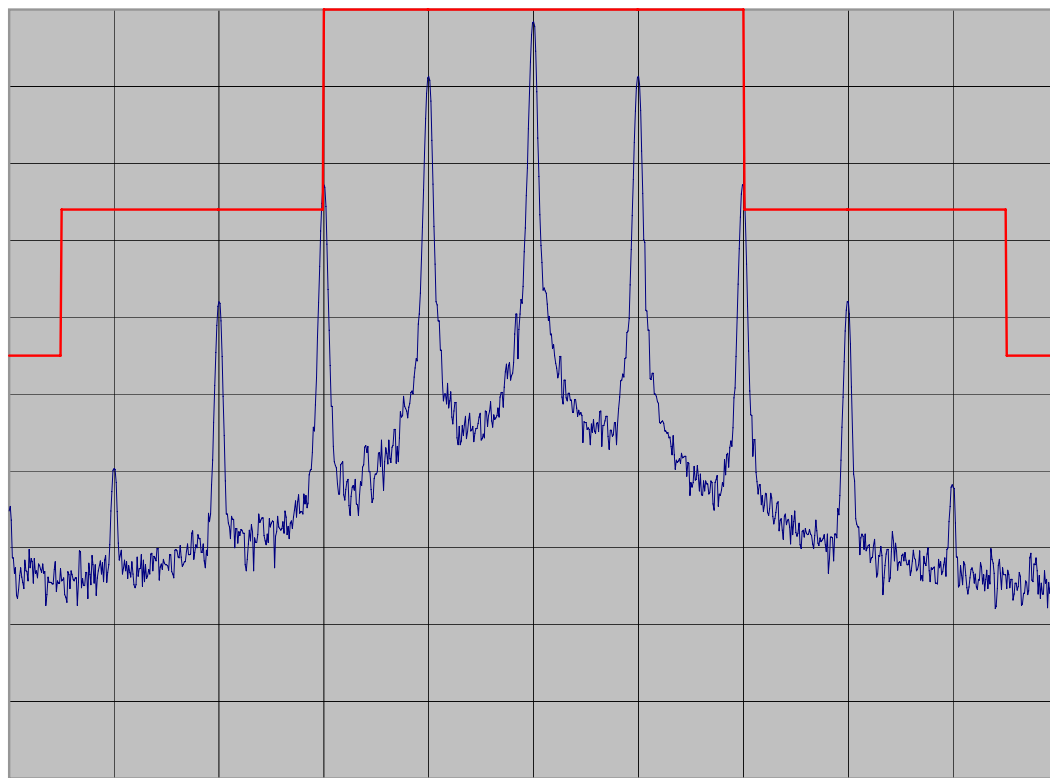
REF 25.0 dBm

ATTEN 40 dB

10 dB/

OFFSET
1.5
dB

CORR'D



CENTER 836.490 MHz
RES BW 300 Hz

VBW 300 Hz

SPAN 100 kHz
SWP 3.00 sec

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SPECTRUM PRESENTATION

FCC ID: A3LSCHR210
SAMSUNG
Tri-Mode Phone
FM Channel 383
Operating Frequency: 836.49 MHz
Output Power: 25.0 dBm
Test Mode: SAT

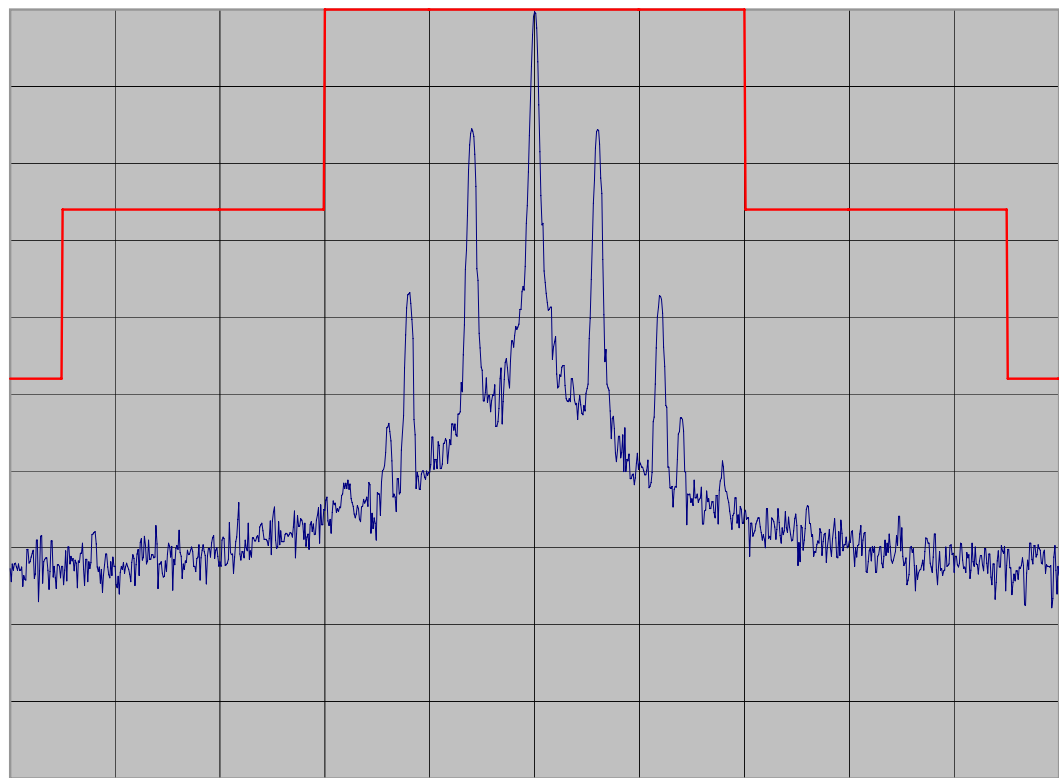
REF 25.0 dBm

ATTEN 40 dB

10 dB/

OFFSET
1.5
dB

CORR'D



CENTER 836.490 MHz
RES BW 300 Hz

VBW 300 Hz

SPAN 100 kHz
SWP 3.00 sec

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SPECTRUM PRESENTATION

FCC ID: A3LSCHR210
SAMSUNG
Tri-Mode Phone
FM Channel 383
Operating Frequency: 836.49 MHz
Output Power: 25.0 dBm
Test Mode: SAT + Voice

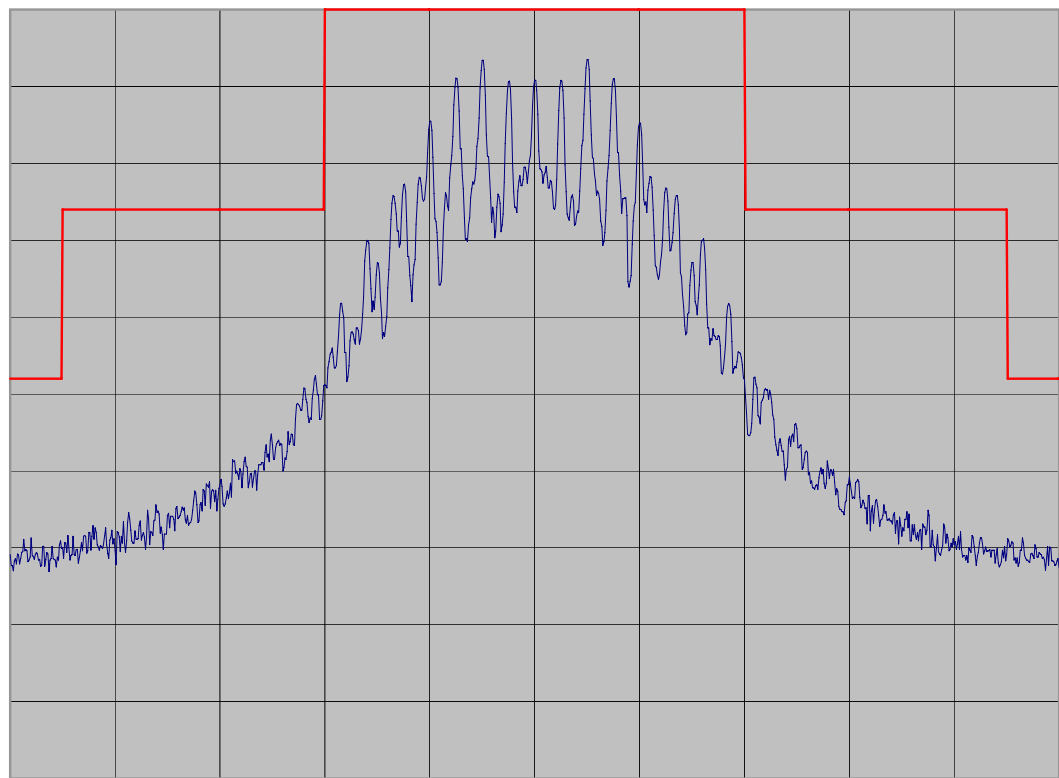
REF 25.0 dBm

ATTEN 40 dB

10 dB/

OFFSET
1.5
dB

CORR'D



CENTER 836.490 MHz
RES BW 300 Hz

VBW 300 Hz

SPAN 100 kHz
SWP 3.00 sec

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SPECTRUM PRESENTATION

FCC ID: A3LSCHR210
SAMSUNG
Tri-Mode Phone
FM Channel 383
Operating Frequency: 836.49 MHz
Output Power: 25.0 dBm
Test Mode: SAT + ST

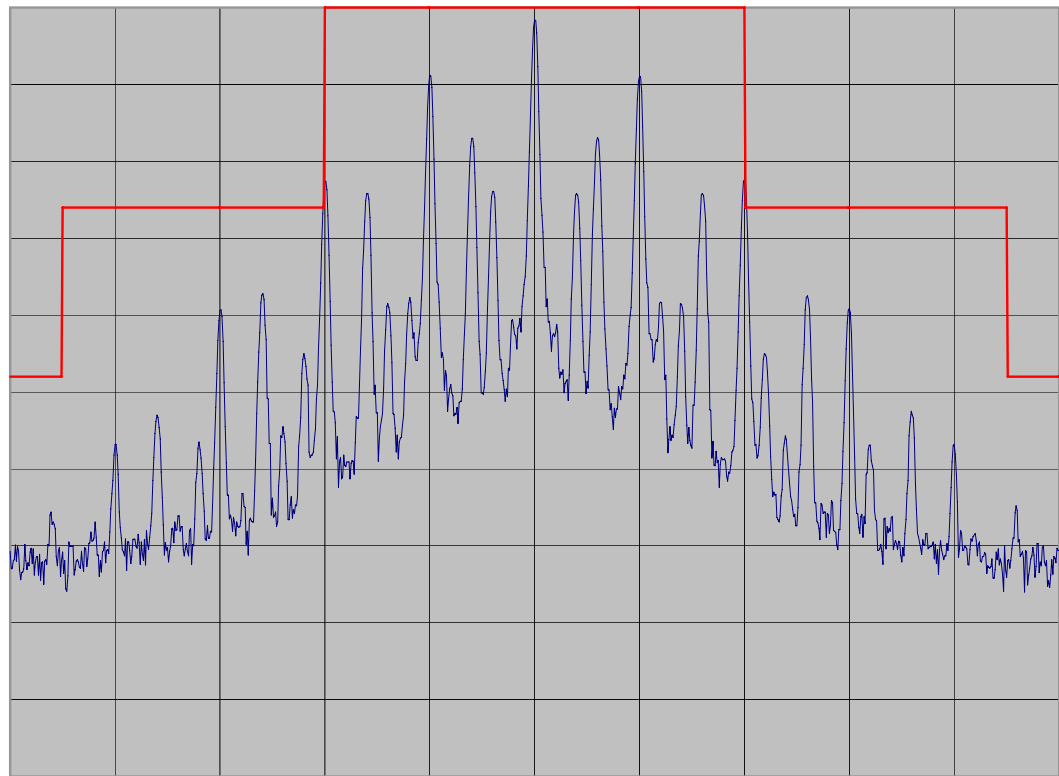
REF 25.0 dBm

ATTEN 40 dB

10 dB/

OFFSET
1.5
dB

CORR'D



CENTER 836.490 MHz
RES BW 300 Hz

VBW 300 Hz

SPAN 100 kHz
SWP 3.00 sec

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SPECTRUM PRESENTATION

FCC ID: A3LSCHR210
SAMSUNG
Tri-Mode Phone
FM Channel 383
Operating Frequency: 836.49 MHz
Output Power: 25.0 dBm
Test Mode: SAT + DTMF

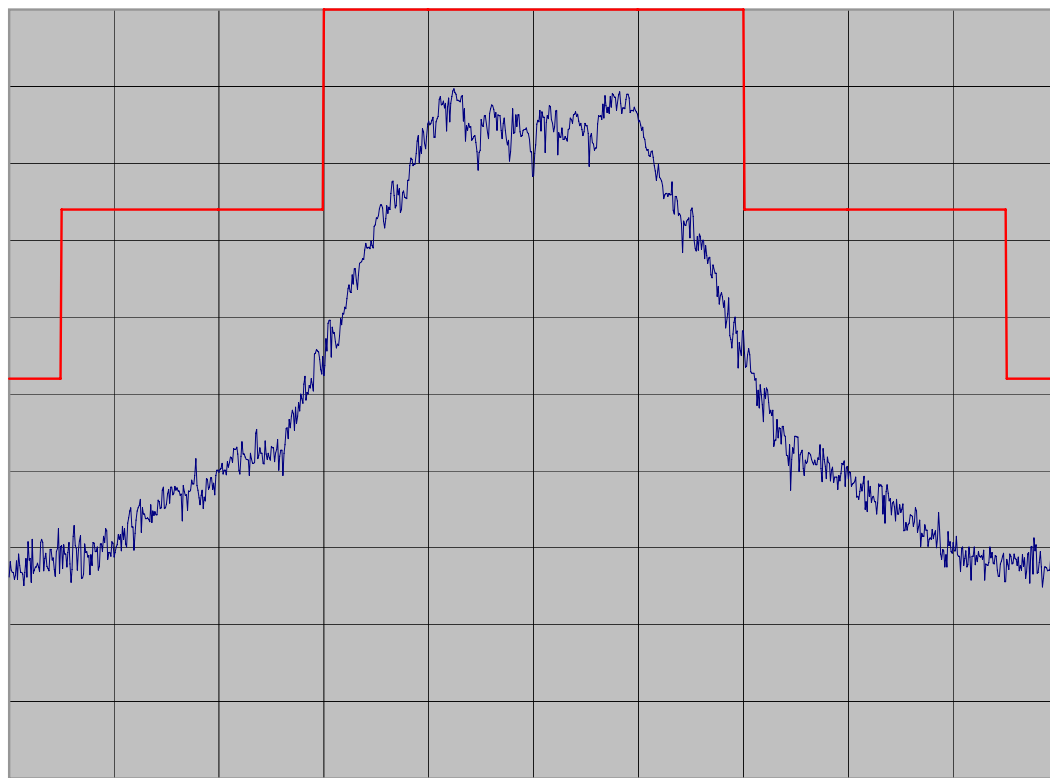
REF 25.0 dBm

ATTEN 40 dB

10 dB/

OFFSET
1.5
dB

CORR'D



CENTER 836.490 MHz
RES BW 300 Hz

VBW 300 Hz

SPAN 100 kHz
SWP 3.00 sec

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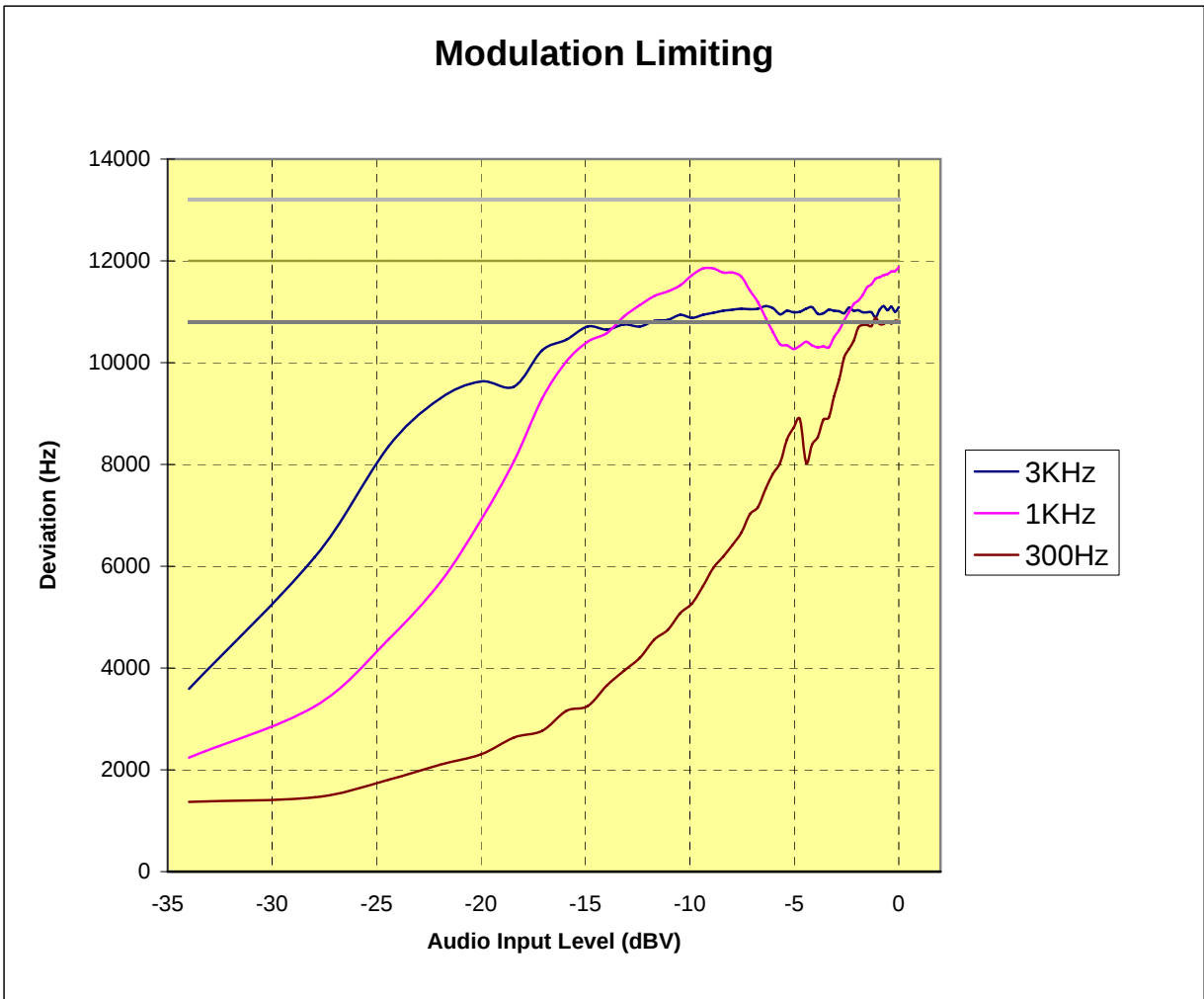
PCTEST Engineering Lab., Inc.

SUBJECT: Modulation Characteristics
FCC Part 24/22

Test Report No.: 609260848
Test Date: 28/09/06

EUT: Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)
Model: SCH-R210
FCC ID: A3LSCHR210

REFERENCE: 1 kHz = 0 dB



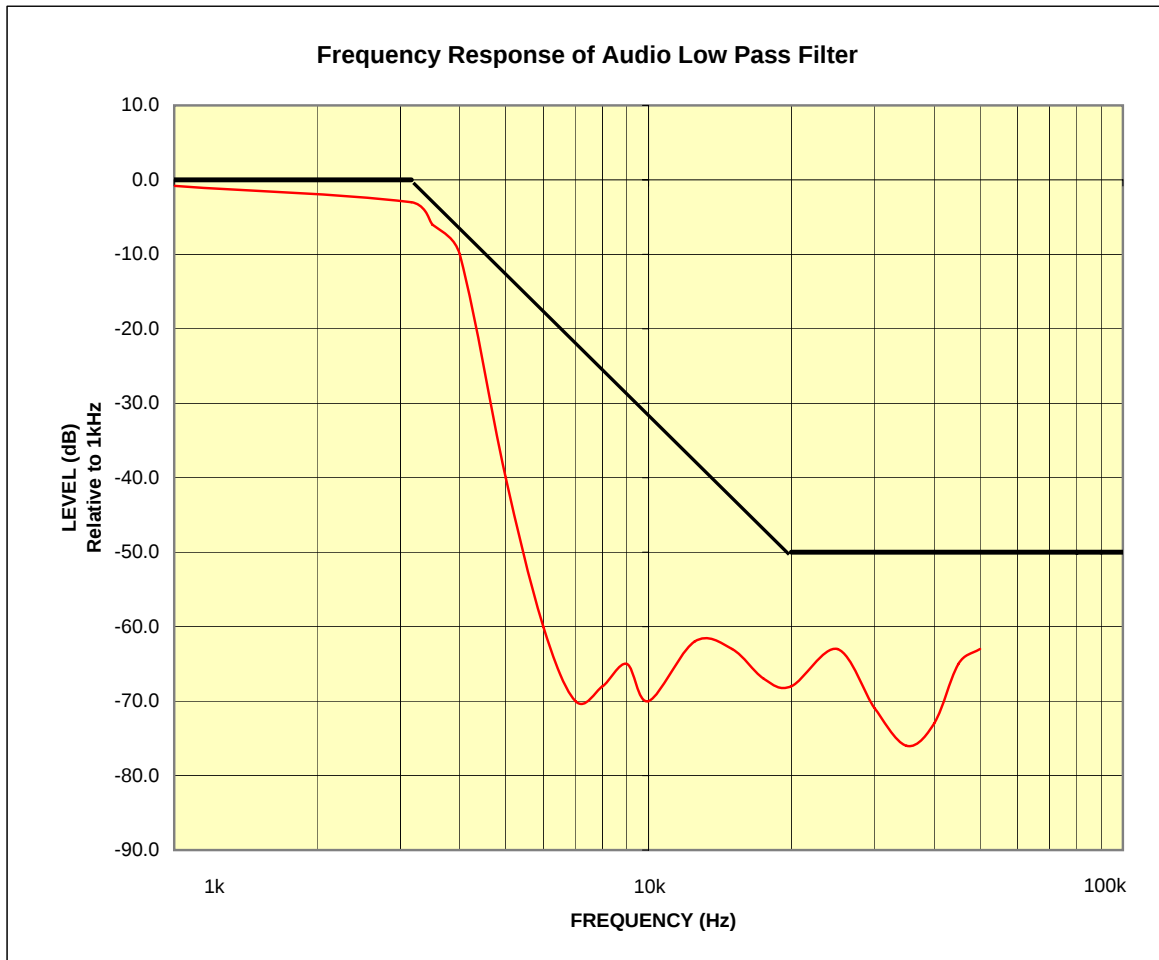
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REFERENCE: 1 kHz = 0 dB

