

6.1 Test Data

6.2 AMPS Radiated Measurements

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 824.04 MHz
 CHANNEL: 0991 (Low)
 MEASURED OUTPUT POWER: 24.873 dBm = 0.307 W
 MODULATION SIGNAL: FM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 37.87 dBc

FREQ . (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1648.08	-46.98	6.10	-40.88	H	65.7
2472.12	-54.28	6.70	-47.58	H	72.4
3296.16	-57.88	6.80	-51.08	H	75.9
4120.20	-56.45	6.50	-49.95	H	74.8
4944.24	-75.38	7.00	-68.38	H	93.2

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 REPORT		FCC CERTIFICATION			Reviewed By: Quality Manager
Test Report S/N: 22.220507245.A3L	Test Dates: May 7-10, 2002	Phone Type: Dual-Mode	FCC ID: A3LSCHA225	Page 12 of 25	

6.1 Test Data (Continued)

6.3 AMPS Radiated Measurements

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 836.49 MHz
 CHANNEL: 0383 (Mid)
 MEASURED OUTPUT POWER: 24.873 dBm = 0.307 W
 MODULATION SIGNAL: FM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 37.87 dBc

FREQ . (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1672.98	-53.98	6.10	-47.88	H	72.7
2509.47	-61.08	6.70	-54.38	H	79.2
3345.96	-63.48	6.80	-56.68	H	81.5
4182.45	-72.68	6.50	-66.18	H	91.0
5018.94	-78.28	7.00	-71.28	H	96.1

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.

PCTEST™ PT. 22 REPORT	 FCC CERTIFICATION		Reviewed By: Quality Manager
Test Report S/N: 22.220507245.A3L	Test Dates: May 7-10, 2002	Phone Type: Dual-Mode	FCC ID: A3LSCHA225

6.1 Test Data (Continued)

6.4 AMPS Radiated Measurements

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 848.97 MHz
 CHANNEL: 0799 (High)
 MEASURED OUTPUT POWER: 24.873 dBm = 0.307 W
 MODULATION SIGNAL: FM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 37.87 dBc

FREQ . (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H V)	(dBc)
1697.94	-51.08	6.10	-44.98	H	69.8
2546.91	-59.88	6.70	-53.18	H	78.0
3395.88	-63.78	6.80	-56.98	H	81.8
4244.85	-64.78	6.50	-58.28	H	83.1
5093.82	-75.18	7.00	-68.18	H	93.0

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.

PCTEST™ PT. 22 REPORT	 FCC CERTIFICATION		Reviewed By: Quality Manager
Test Report S/N: 22.220507245.A3L	Test Dates: May 7-10, 2002	Phone Type: Dual-Mode	FCC ID: A3LSCHA225
© 2002 PCTEST ENGINEERING LABORATORY, INC.			Page 14 of 25

6.1 Test Data (Continued)

6.5 CELLULAR CDMA Radiated Measurements

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 824.70 MHz
 CHANNEL: 1013 (Low)
 MEASURED OUTPUT POWER: 24.033 dBm = 0.253 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 37.03 dBc

FREQ . (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1649.40	-47.22	6.10	-41.12	V	65.1
2474.10	-52.06	6.70	-45.36	V	69.4
3298.80	-56.53	6.80	-49.73	V	73.8
4123.50	-60.02	6.50	-53.52	V	77.6

NOTES:

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

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

PCTEST™ PT. 22 REPORT	 FCC CERTIFICATION			Reviewed By: Quality Manager
Test Report S/N: 22.220507245.A3L	Test Dates: May 7-10, 2002	Phone Type: Dual-Mode	FCC ID: A3LSCHA225	Page 15 of 25

6.1 Test Data (Continued)

6.6 CELLULAR CDMA Radiated Measurements

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 836.49 MHz
 CHANNEL: 0383 (Mid)
 MEASURED OUTPUT POWER: 24.033 dBm = 0.253 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 37.03 dBc

FREQ . (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1672.98	-56.78	6.10	-50.68	V	74.7
2509.47	-58.08	6.70	-51.38	V	75.4
3345.96	-64.48	6.80	-57.68	V	81.7
4182.45	-77.78	6.50	-71.28	V	95.3

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 REPORT		FCC CERTIFICATION			Reviewed By: Quality Manager
Test Report S/N: 22.220507245.A3L	Test Dates: May 7-10, 2002	Phone Type: Dual-Mode	FCC ID: A3LSCHA225	Page 16 of 25	

6.1 Test Data (Continued)

6.7 CELLULAR CDMA Radiated Measurements

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 848.31 MHz
 CHANNEL: 0777 (High)
 MEASURED OUTPUT POWER: 24.033 dBm = 0.253 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 37.03 dBc

FREQ . (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1696.62	-53.98	6.10	-47.88	V	71.9
2544.93	-56.78	6.70	-50.08	V	74.1
3393.24	-63.08	6.80	-56.28	V	80.3
4241.55	-71.68	6.50	-65.18	V	89.2

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 REPORT	 FCC CERTIFICATION		Reviewed By: Quality Manager
Test Report S/N: 22.220507245.A3L	Test Dates: May 7-10, 2002	Phone Type: Dual-Mode	FCC ID: A3LSCHA225