

5.1 Test Data - IDEN 900 M Hz

5.2 Effective Radiated Power Output

A. POWER: **High**

Freq. Tuned (MHz)	REF. LEVEL (dBm)	POL (H/V)	ERP (W)	ERP (dBm)	BATTERY
896.01750	-12.700	V	0.720	28.573	Standard
899.01875	-12.700	V	0.747	28.733	Standard
900.98125	-12.900	V	0.738	28.683	Standard

Note: Standard batteries are the only option for this EUT

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.

6.1 Test Data (Continued)

Radiated Measurements - IDEN 900 M Hz

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 896.01750 MHz
 CHANNEL: (Low)
 MEASURED OUTPUT POWER: 28.733 dBm = 0.747 W
 MODULATION SIGNAL: (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 41.73 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1792.04	-31.38	6.10	-25.28	V	54.0
2688.05	-27.48	6.70	-20.78	V	49.5
3584.07	-52.78	6.80	-45.98	V	74.7
4480.09	-40.68	6.50	-34.18	V	62.9
5376.11	-42.48	7.00	-35.48	V	64.2

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. 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.

6.1 Test Data (Continued)

Radiated Measurements - IDEN 900 M Hz

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 899.01875 MHz
 CHANNEL: (Mid)
 MEASURED OUTPUT POWER: 28.733 dBm = 0.747 W
 MODULATION SIGNAL: (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 41.73 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1798.04	-32.98	6.10	-26.88	V	55.6
2697.06	-27.48	6.70	-20.78	V	49.5
3596.08	-41.98	6.80	-35.18	V	63.9
4495.09	-39.78	6.50	-33.28	V	62.0
5394.11	-41.78	7.00	-34.78	V	63.5

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.

6.1 Test Data (Continued)

Radiated Measurements - IDEN 900 MHz

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 900.98125 MHz
 CHANNEL: (High)
 MEASURED OUTPUT POWER: 28.733 dBm = 0.747 W
 MODULATION SIGNAL: (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 41.73 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1801.96	-32.48	6.10	-26.38	V	55.1
2702.94	-27.78	6.70	-21.08	V	49.8
3603.93	-43.38	6.80	-36.58	V	65.3
4504.91	-41.68	6.50	-35.18	V	63.9
5405.89	-43.28	7.00	-36.28	V	65.0

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. 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.

7.1 Test Data - IDEN 800 M Hz

7.2 Effective Radiated Power Output

A. POWER: **High**

Freq. Tuned (MHz)	REF. LEVEL (dBm)	POL (H/V)	ERP (W)	ERP (dBm)	BATTERY
806.0125	-12.500	V	0.754	28.773	Standard
815.5125	-12.500	V	0.782	28.933	Standard
824.9875	-12.700	V	0.773	28.883	Standard

Note: Standard batteries are the only option for this EUT

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.

8.1 Test Data (Continued)

Radiated Measurements - IDEN 800 M Hz

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 806.0125 MHz
 CHANNEL: (Low)
 MEASURED OUTPUT POWER: 28.933 dBm = 0.782 W
 MODULATION SIGNAL: (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 41.93 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1612.03	-30.88	6.10	-24.78	V	53.7
2418.04	-25.78	6.70	-19.08	V	48.0
3224.05	-41.58	6.80	-34.78	V	63.7
4030.06	-39.58	6.50	-33.08	V	62.0
4836.08	-42.38	7.00	-35.38	V	64.3

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. 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.

8.1 Test Data (Continued)

Radiated Measurements - IDEN 800 M Hz

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 815.0125 MHz
 CHANNEL: (Mid)
 MEASURED OUTPUT POWER: 28.933 dBm = 0.782 W
 MODULATION SIGNAL: (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 41.93 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1630.03	-31.78	6.10	-25.68	V	54.6
2445.04	-26.08	6.70	-19.38	V	48.3
3260.05	-41.98	6.80	-35.18	V	64.1
4075.06	-39.78	6.50	-33.28	V	62.2
4890.08	-41.78	7.00	-34.78	V	63.7

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.

8.1 Test Data (Continued)

Radiated Measurements - IDEN 800 MHz

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 824.9875 MHz
 CHANNEL: (High)
 MEASURED OUTPUT POWER: 28.933 dBm = 0.782 W
 MODULATION SIGNAL: (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 41.93 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1649.98	-32.68	6.10	-26.58	V	55.5
2474.96	-26.28	6.70	-19.58	V	48.5
3299.95	-42.58	6.80	-35.78	V	64.7
4124.94	-40.68	6.50	-34.18	V	63.1
4949.93	-42.58	7.00	-35.58	V	64.5

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.