



MOTOROLA

Global Telecom Solutions Sector

FCC ID: IHET6BN1

Modulation Characteristics

Minimum Power

CDMA ANALYZER

Rho

0.9962

Time Offset

-0.07

us

Frea Err

-50

0.0

50

Hz

Carrier Feedthru

-40.7

dB

Tune Frea

1931.250000

MHz

Input Atten

Auto/Hold

0 dB

Input Port

RF In/Ant

Find PN

Auto/Manual

PN Offset

148

Even Sec In

Enable/Not

Meas Intvl

1.25

ms

Gain

Auto/Hold

36 dB

Anl Dir

Fwd/Rev

Anl Special

Normal

Analyzer

Arm Meas

Single/Cont

Disarm

Qual Event

80 ms

Tris Event

80 ms

Channel 1175
Minimum Power

CDMA BTS

CDMA ANALYZER

Rho

0.9957

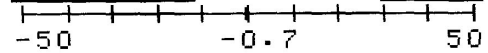
Time Offset

-0.09

us

Frea Err

Hz



Carrier Feedthru

dB

-33.8

Tune Frea

1988.750000
MHz

Input Atten

Auto/Hold
0 dB

Input Port

RF In/Ant

Find PN

Auto/Manual

PN Offset

148

Even Sec In

Enable/Not

Meas Intvl

1.25
ms

Gain

Auto/Hold
36 dB

Anl Dir

End/Rev
Anl Special
Normal

Analyzer

Arm Meas
Single/Cont
Disarm

Qual Event

80 ms

Tris Event

80 ms



MOTOROLA

Global Telecom Solutions Sector

FCC ID: IHET6BN1

SECTION C

Spurious & Harmonic Emissions Radiated

Radiated RF Measurements

Worst Case Radiated RF Spur Levels for SC4812T @ 1.9GHz

<i>Radiated Data</i>			<i>Substituted Power</i>				<i>Spec</i>	<i>Result</i>
TX Channel	Spurious Frequency (MHz)	Antenna Polarity	Measured Radiated Field Strength (dBuV/m)	Measured Radiated Field Strength (dBm) (Note 1)	TX Antenna Terminal Voltage (dBm) (Note 2)	EDRP (dBm) (Note 3)	FCC Part 24 MAX LIMIT (dBm)	Pass/Fail
1175	3977.5	H	75.7	-19.52	-29.85	-24.3	- 13	Pass
1175	15086.543	V	46.51	-48.71	-59.4	-50.25	- 13	Pass
25	3862.5053	H	75.05	-20.17	-29	-23.35	- 13	Pass
25	13518.75	V	44.08	-51.14	-67.7	-57.35	- 13	Pass

Notes:

1. Converting dBuV/M to dBm at 3 meters
 $(\text{dBuV/M}) + 9.542 - 104.77\text{dB} = \text{dBm}$
 Converting dBuV/M to dBm at 10 meters
 $(\text{dBuV/M}) + 20 - 104.77\text{dB} = \text{dBm}$
2. The same horn antenna and measurement system was used for EUT scan and during substitution method. After maximizing the receive antenna and adjusting signal generator power level to measure the same emission level with the spectrum analyzer as with the EUT. Signal generator output level was recorded for each of the spurious frequencies. Test cable was then disconnected from the transmit horn and was connected to the input of the S/A measuring the voltage at the terminals of the antenna.
3. This value was obtained by converting the Equivalent Isotropic Radiated Power (EIRP) to ideal half-wave dipole reference power - (Equivalent Di-Pole Radiated Power - EDRP) per (TIA-603, 2.2.12.2(i)(m))



Radiated Engineer

9/1/01

Date