SC4812T @ 800 MHz CDMA BTS

SUMMARY TEST REPORT

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- The results and data presented herein are based on tests conducted at an ISO Guide 25
 Accredited Test Laboratory. (Ref: UL Project No. O1NK32838 EMC Test Report) All
 details related to test equipment, calibration, environmental conditions are in the
 referenced report.
- 2. Results listed apply only to the SC4812T CDMA BTS.

Signature:

Engineer: Terry Schwenk

Date



FCC ID: IHET5BL1

SECTION A

SUMMARY OF RF MEASUREMENTS

Summary of Radiated RF Measurements

Worst Case Radiated RF Spur Level for SC4812T @ 800 MHz

Radiated Data			Substituted Power				Spec	Result
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
1013	1739.4	Н	74.31	-20.918	-29.8	-24.75	- 13	Pass

Notes:

- Converting dBuV/M to dBm at 3 meters (dBuV/M) +9.542-104.77dB=dBm Converting dBuV/M to dBm at 10 meters (dBuV/M) +20 -104.77dB=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

Date

Terry Schwenk

APPLICANT: MOTOROLA

Summary of Conducted RF Measurements

SC4812T @ 800 MHz

CHANNEL	FREQUENCY (MHz)	SPUR LEVEL MEASURED (dBµV)	SPUR LEVEL MEASURED (dBm)	FCC MAX LIMIT dBm	Pass/Fail
777	6944.581	85.81	-21.19	-13	Pass

Engineer: Iranusco avalor 8/10/01
Date

Francisco Avalos



FCC ID: IHET5BL1

SECTION B

MODULATION CHARACTERISTICS

SECTION B

Summary of Modulation Characteristics

SC4812T @ 800 MHz worst cases

TUNE FREQUENCY (MHz)	RHO measured	RHO specifications	Pass/Fail	
893.31	0.9825	>0.912	Pass	
1013 869.7		>0.912	Pass	
	FREQUENCY (MHz) 893.31	FREQUENCY (MHz) RHO measured 893.31 0.9825	FREQUENCY (MHz) RHO measured specifications 893.31 0.9825 >0.912	

The BTS was configured for maximum power out of 46.0 dBm and minimum power out of 23.0 dBm respectively. The output power was set respectively to 40.0 Watts or 200 mWatts using an HP437B power meter.

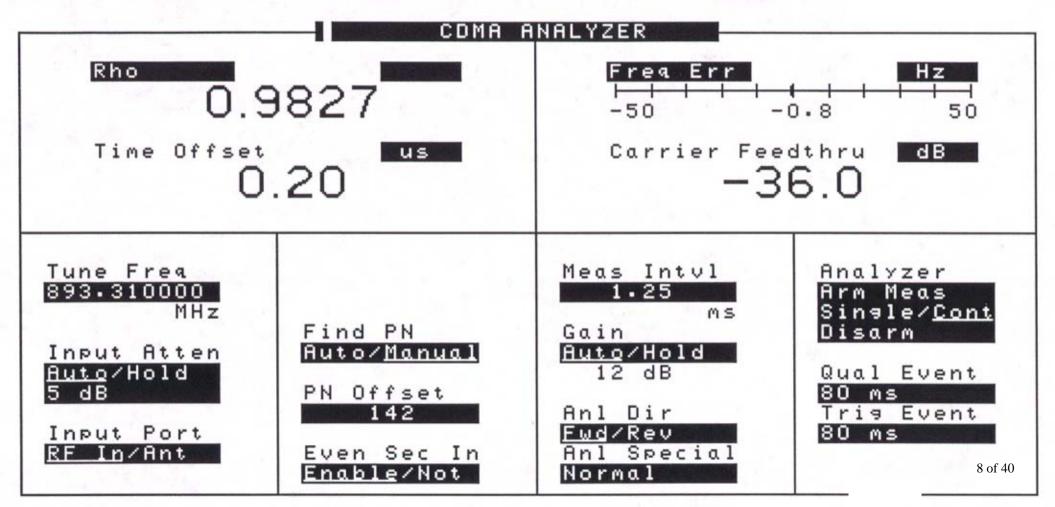
Engineer: <u>Francisco Avalos</u> 8/10/01
Date Francisco Avalos

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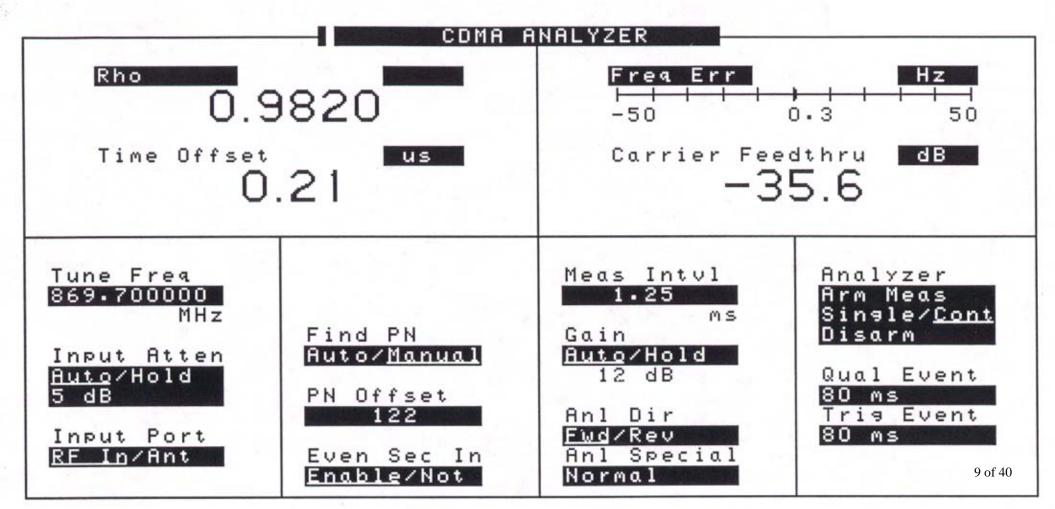
MODULATION CHARACTERISTICS

Maximum Power

SC4812T 800MHz 3G-1X 46dBm E6380A Cell Site Test Set: 07/18/01 06:07:00 pm



SC4812T 800MHz 3G-1X 46dBm E6380A Cell Site Test Set: 07/18/01 05:38:00 pm

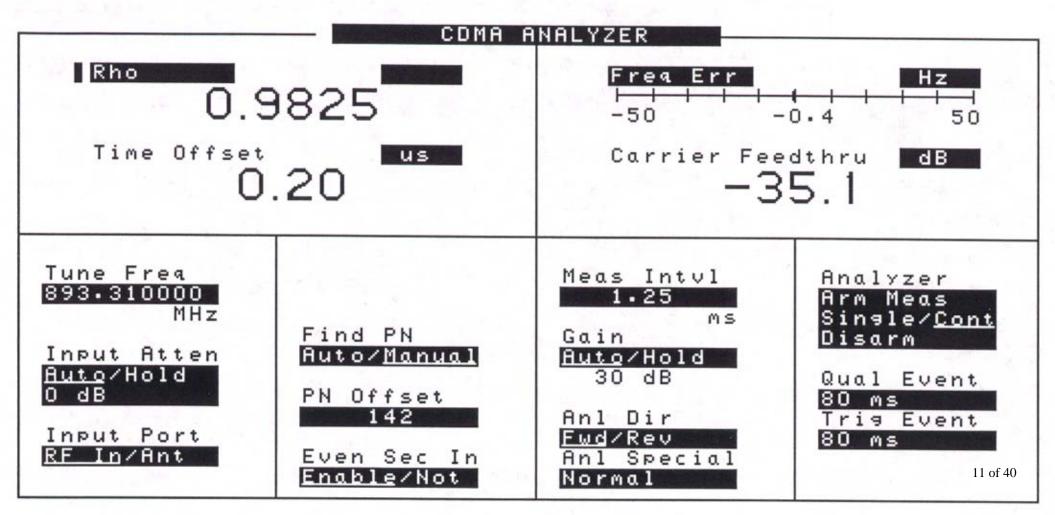


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MODULATION CHARACTERISTICS

Minimum Power

SC4812T 800MHz 3G-1X 23dBm E6380A Cell Site Test Set: 07/18/01 06:12:00 pm



SC4812T 800MHz 3G-1X 23dBm E6380A Cell Site Test Set: 07/18/01 05:47:00 pm

