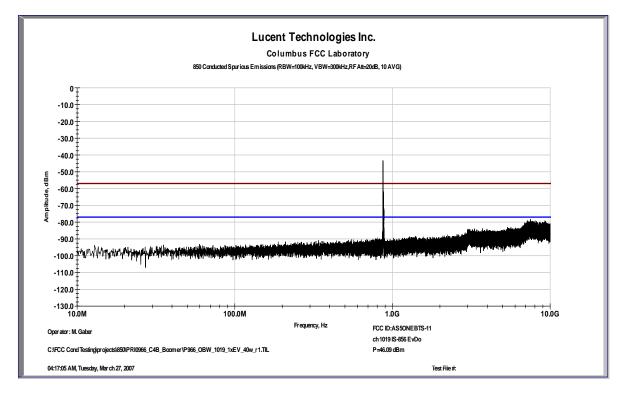
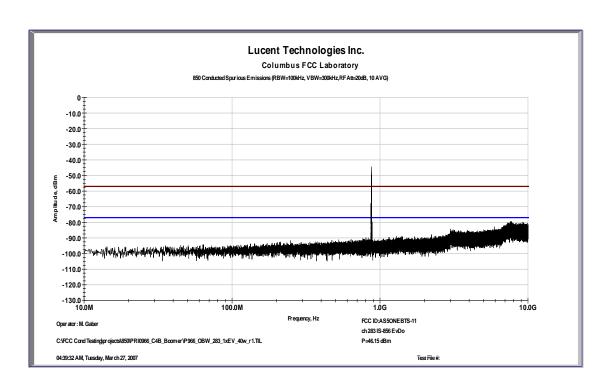
Applicant: Alcatel-Lucent FCC ID:AS5ONEBTS-11

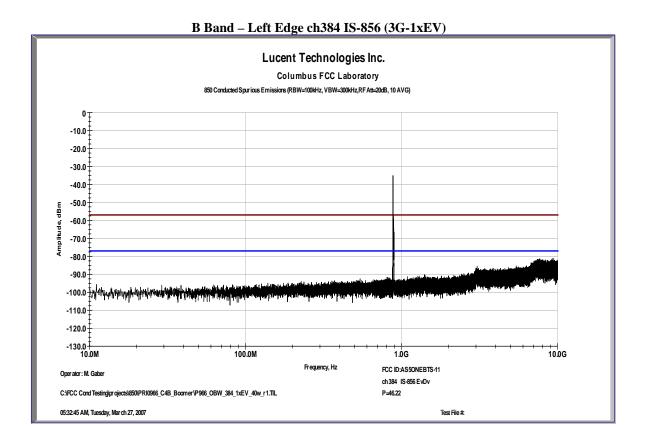
A Band – Left Edge ch1019 IS-856 (3G-1xEV)



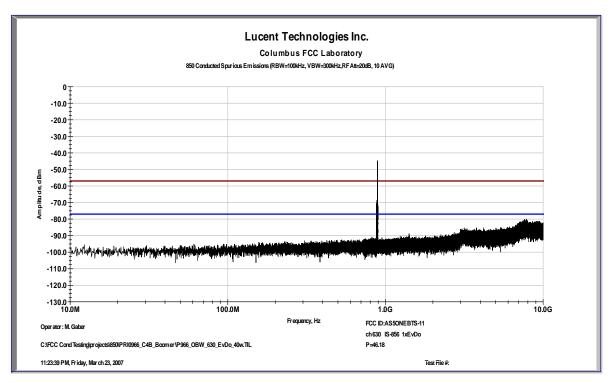
A Band – Right Edge ch283 IS-856 (3G-1xEV)



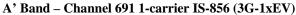
Applicant: Alcatel-Lucent FCC ID:AS50NEBTS-11

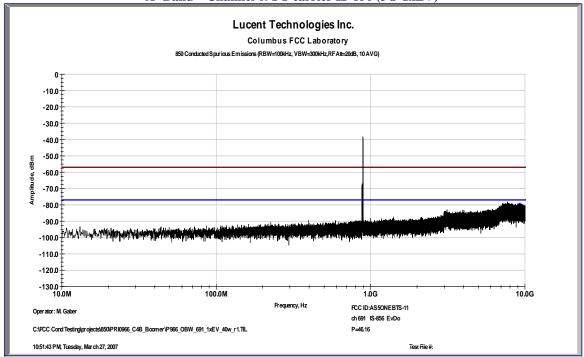


B3 Band – Right Edge ch630 1-carrier IS-856 (3G-1xEV)

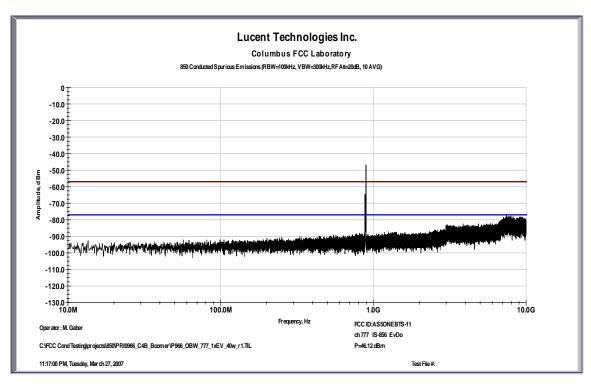








B' Band – Channel 777 1-carrier IS-856 (3G-1xEV)



Applicant: Alcatel-Lucent FCC ID:AS50NEBTS-11

SUBEXHIBIT 10.6

Section 2.1053 MEASUREMENT REQUIRED: FIELD STREGTH OF SPURIOUS RADIATION

The field strength measurements were made in the FCC registered three-meter semi-anechoic chamber which is maintained by Alcatel-Lucent in Columbus, Ohio, USA (FCC # 92731).

The AS5ONEBTS-11 UMTS CDMA transceiver was configured in both cdma2000 (3G-1x) mode with pilot, page, sync and traffic channels per 3GPP2 cdma2000 standards and IS-856 (3G-1xEV) mode with pilot, MAC and data channels per 3GPP2 High Rate Packet Data standards. The carrier power level at each transmit port end antenna connector (EAC) of the AS5ONEBTS-11 UMTS CDMA transceiver Base Transceiver Station (BTS) was transmitting to the maximum rated mean power of 46.02 dBm or 40 watts.

The AS5ONEBTS-11 UMTS CDMA transceiver was investigated from 10 MHz to the 10th harmonic of the carrier or 10 GHz, per Section 21057(a)(1). The equipment under test (EUT) was configured in the normal mode of installation and operation. The recommendations of ANSI C63.4 were followed for EUT testing setup and cabling. Measurements were made using both horizontally and vertically polarized broadband antennas.

The calculated emission levels were found by:

$$E(dBuV/m) = Vmeas(dBuV) + Amplifier Gain / Cable Loss (dB) + Antenna Factor$$

Section 2.1053 contains the requirements for the levels of spurious radiation as a function of the EIRP of the unmodulated carrier. The reference level for the unmodulated carrier is calculated as the field produced by an isotropic radiator excited by the transmitter output power using the relation between the electric field strength of an ideal dipole and the power given in Reference Data for Radio Engineers, 6 4th edition, ITT Corp. The emission limit calculated equals the following:

$$E = (120\pi P)^{1/2} = [(30*P)^{1/2}] / R$$

$$20 \log{(E*10^6)}$$
 - $(43 + 10 \log{P}) = 84.1 dB \mu V/meter$

Where: E = Field Intensity in Volts/meter R = Distance in meters = 3 m

P = Transmitted Power in watts = 40 W/ Carrier

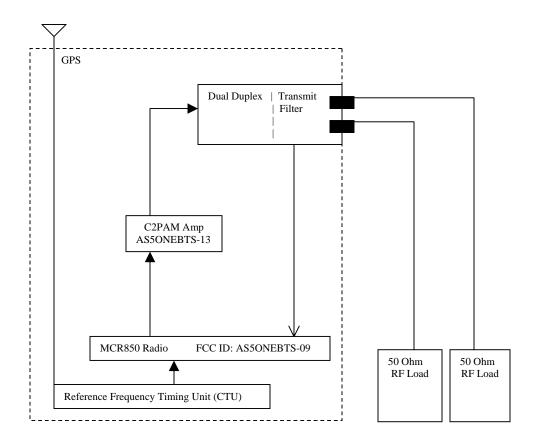
Frequency of Emission	Distance	E	E	RBW
(MHz)	(m)	(dBuV/m)	(dBm)	
10-10,000	3	84.1	-22.9	100 kHz

Sections 2.1051 and 2.1057 (c) specify that the spurious emissions attenuated more than 20 dB below the permissible value need note be reported. Therefore, the reportable limit at 3 meters is 64.1 dBuV/m (-42.9 dBm).

All measurement equipment used was calibrated in accordance with ISO9000 processes. The EUT configuration diagram is given in the following Figure 10.6.1.



Figure 10.6.1 EUT for Measurements of FIELD STREGTH OF SPURIOUS RADIATION



Applicant: Alcatel-Lucent FCC ID:AS50NEBTS-11

Results

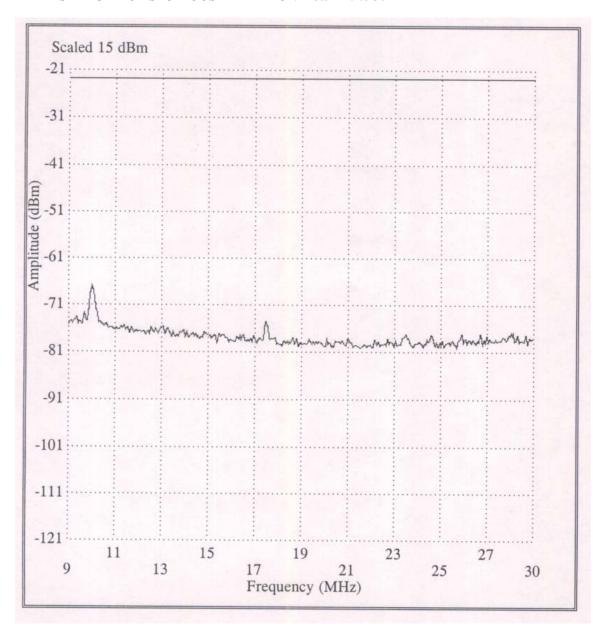
The measurement results over the frequency spectrum investigated (10~MHz to 10~GHz) demonstrate full compliance with the Rules of the Commission.

Worst Case FIELD STREGTH OF SPURIOUS RADIATION

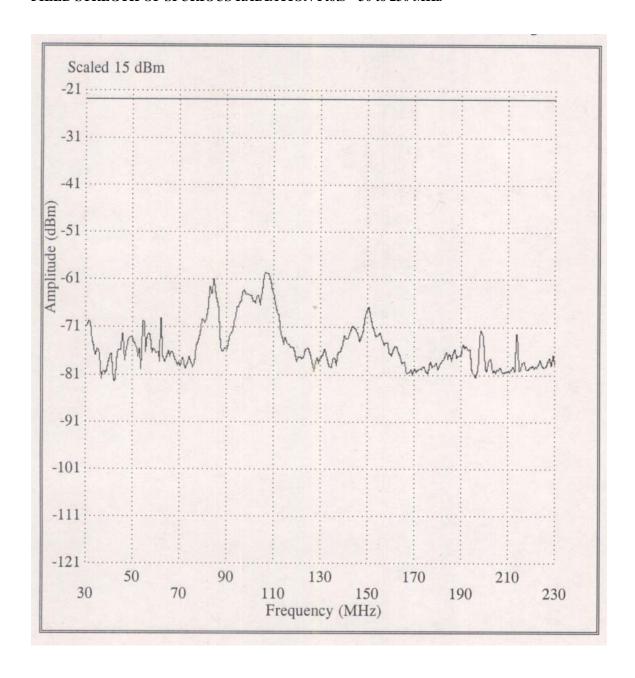
Frequen	Antenna Polarity	Measured Radiated	Measure Radiated	Path Gain	Antenna Factor	Equivalent Transmit	Equivalent Field	Pass / Fail
(MHz)	rolanty	Field	Field	Amp/	(dB)	Power	Strength	/ I'all
		Strength	Strength	Cable	, ,	(dBm)	(dBuV/m)	
		(dBm)	(dBuV/m	(dB)				
10.1	Н	-59.30	47.7	24.96	10.50	-66.68	40.32	Pass
106.4	V	-47.00	60.00	22.97	10.50	-59.46	47.54	Pass
732.8	V	-73.30	33.70	18.26	22.33	-69.23	37.77	Pass
1765	V	-53.20	53.8	36.57	26.51	-63.16	43.84	Pass
3507	V	-62.40	44.6	36.19	30.92	-67.57	39.43	Pass
7795	V	-66.40	40.60	34.94	36.54	-64.71	42.29	Pass



FIELD STREGTH OF SPURIOUS RADIATION Plots – 10 to 30 MHz



FIELD STREGTH OF SPURIOUS RADIATION Plots - 30 to 230 MHz



FIELD STREGTH OF SPURIOUS RADIATION Plots - 200 to 1000 MHz

