

INDEX OF TEST RESULTS

<u>Exhibit #</u>	<u>Description</u>
6A	1900MHz/Part 24/TDMA: RF Power Stability
6B	1900MHz/Part 24/TDMA: Modulation Characteristics
6C	1900MHz/Part 24/TDMA: Occupied bandwidth
6D	1900MHz/Part 24/TDMA: Spurious Emissions (conducted)
6E	1900MHz/Part 24/TDMA: Spurious Emissions (radiated)
6F	1900MHz/Part 24/TDMA: Frequency Stability

EXHIBIT 6A1

1900 MHz TDMA RF POWER OUTPUT

Para. 2.1033 (c)(6)(7), 2.1046 and 24.232 (a)(c)

The RF maximum power measured at the output terminal (antenna connector) was 25.13 dBm at 1960 MHz.

The EMPRS function will also control the RF Power Output according to the environment temperature.

The EMPRS shut down the power output when the temperature reaches above 50 degrees C or below -5 degrees C.

Note: The manufacturers rated voltage of the RBS is 110/220 VAC.

The measurements were made per using the following equipment:

Hewlett Packard Spectrum Analyzer Model 8563E

Hewlett Packard AC Power Source Model 6813A

Gigatronics Universal Power Meter Model 8651A

Exhibit 6B1

1900 MHz TDMA MODULATION CHARACTERISTICS

2.1037(c)(13)

Minimum Standard

The RMS vector error in any burst shall be less than 12.5%.

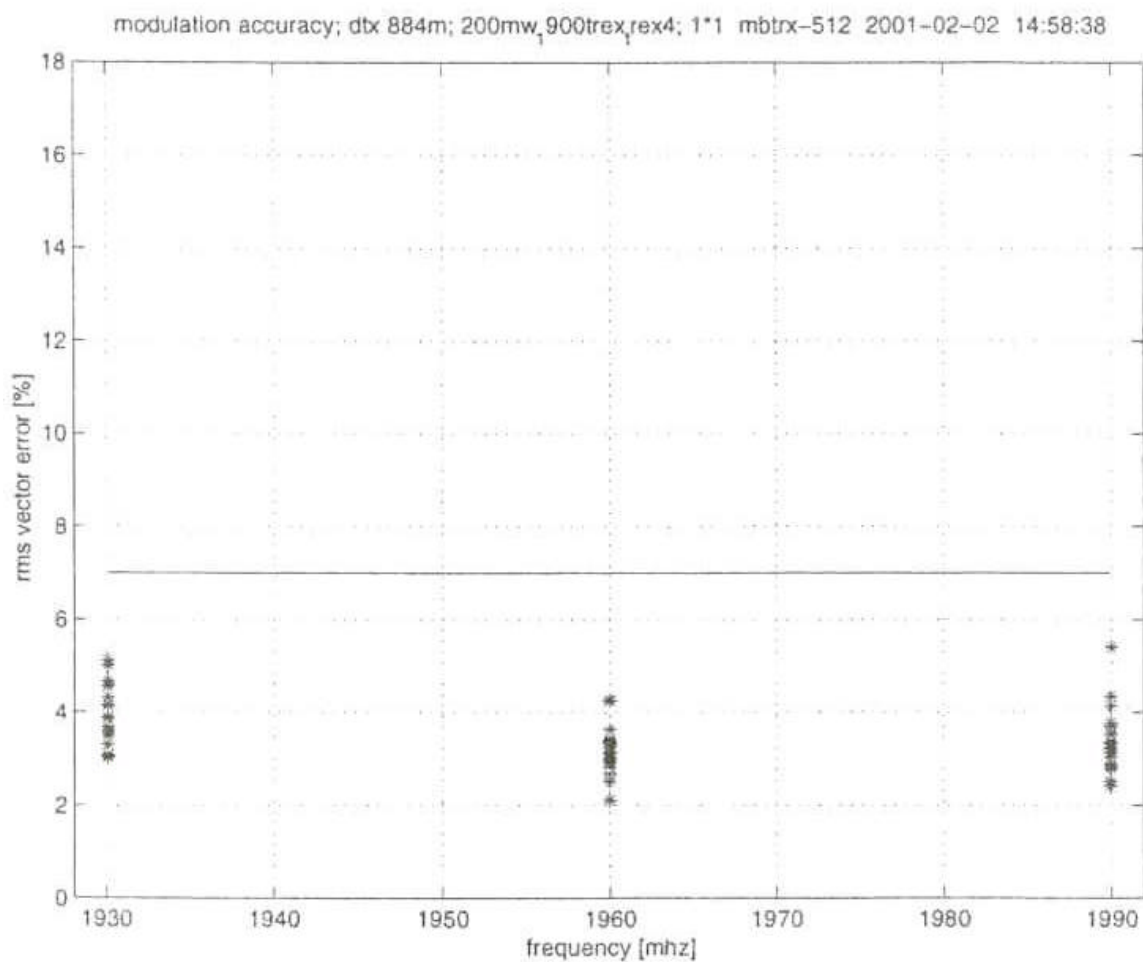


Exhibit 6C1

1900 MHz: OCCUPIED BANDWIDTH

Per 2.1049 (h) and 24.238 (a)(b)(c)(d) the exhibits presented show the modulation that has to exist in a 1900 MHz Cellular System.

All the exhibits listed below are plots where the modulation condition is Psuedorandom Data (48.6 kb/s switched), operating in the TDMA mode. All plots were taken while transmitting at Power Level 0. Any frequency span not covered in the exhibits below was found to be unaffected by the transmitter/modulation.

EXHIBIT

Lower Channel (Example, Channel 2)

Normal bursted operation; data rate 48.6 kb/s, Output power level 0.

6C2 1 MHz Resolution Bandwidth reference plot.
6C3 Emission Bandwidth
6C4 0.1 MHz span, Block Edge

Upper Channel (Example, Channel 1998)

Normal bursted operation; data rate 48.6 kb/s, Output power level 0.

6C5 1 MHz Resolution Bandwidth reference plot.
6C6 Emission Bandwidth
6C7 0.1 MHz span, Block Edge

The measurements were made using the following equipment:

Hewlett Packard Spectrum Analyzer Model 8563E
Hewlett Packard AC Power Source Model 6813A
Gigatronics Universal Power Meter Model 8651A

Exhibit 6C2

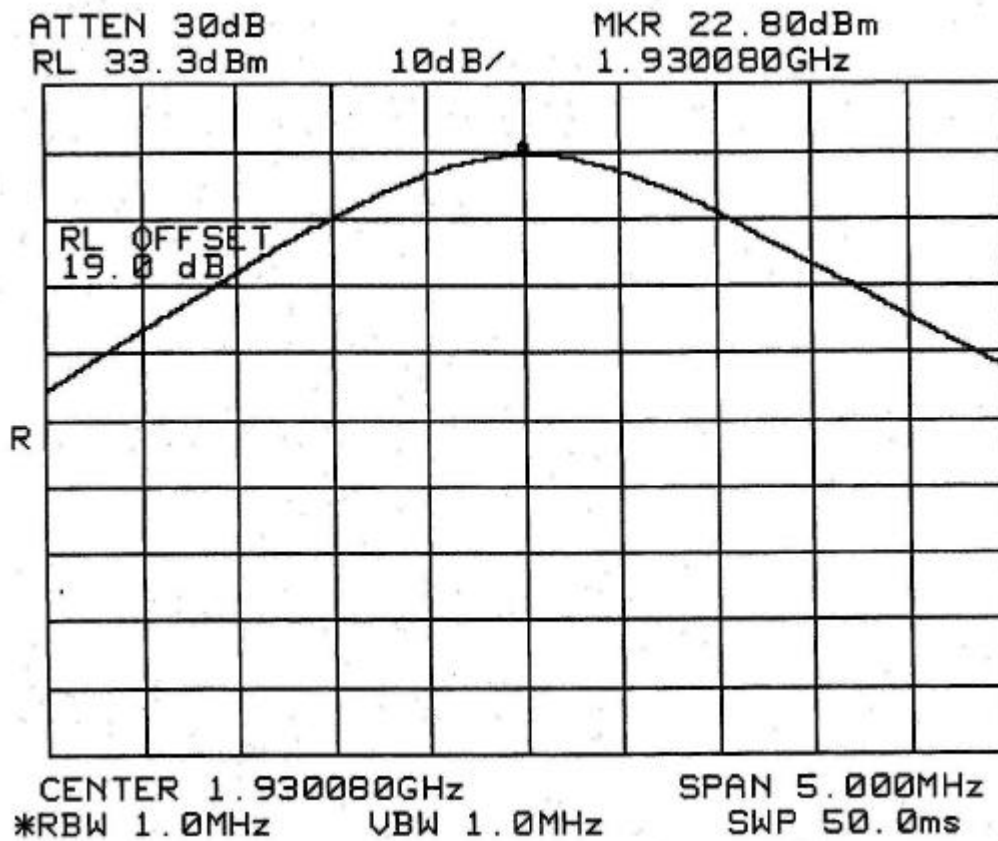


Exhibit 6C3

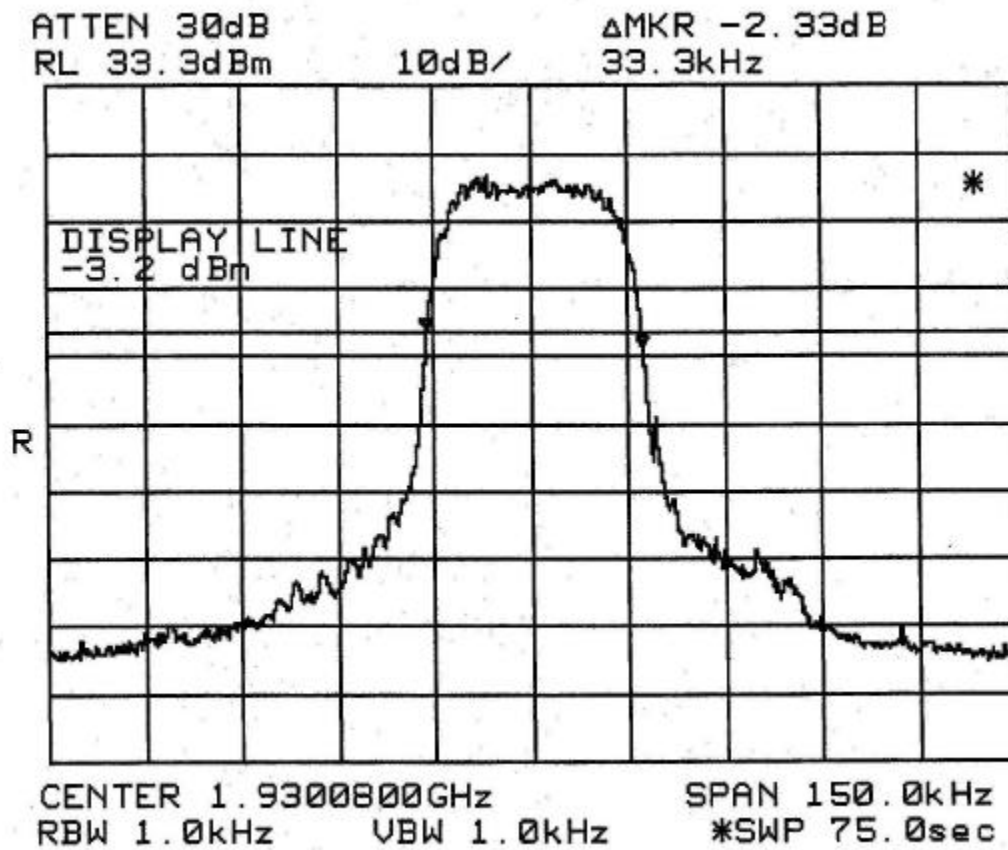


Exhibit 6C4

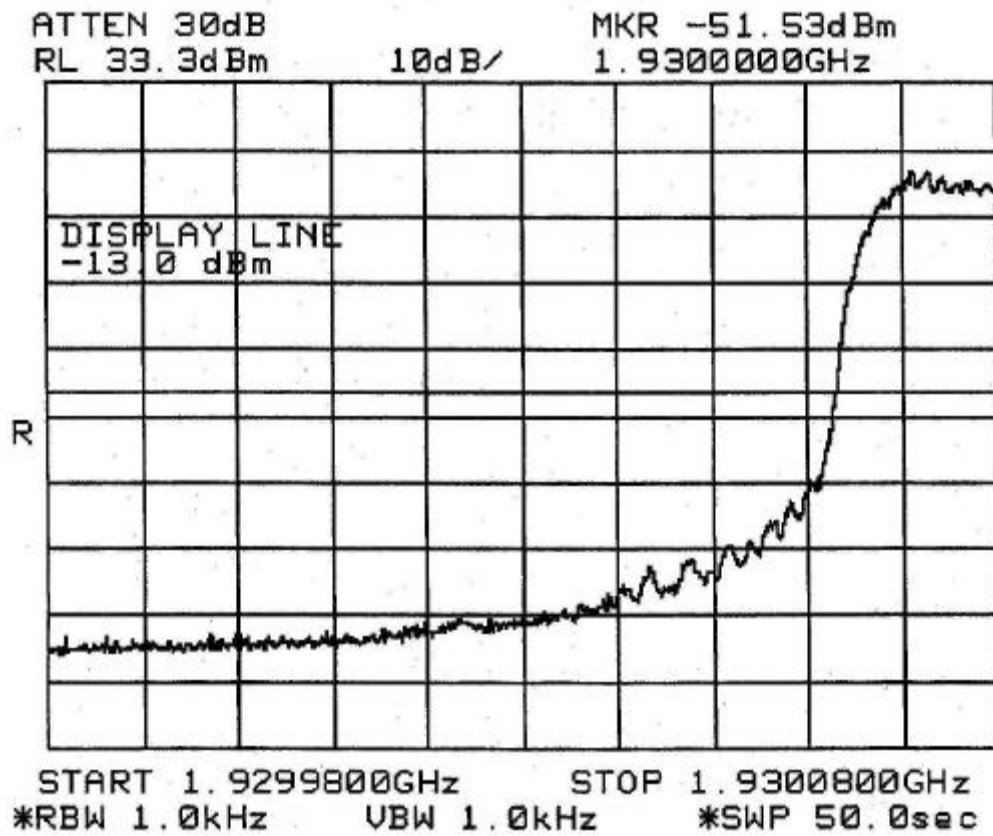


Exhibit 6C5

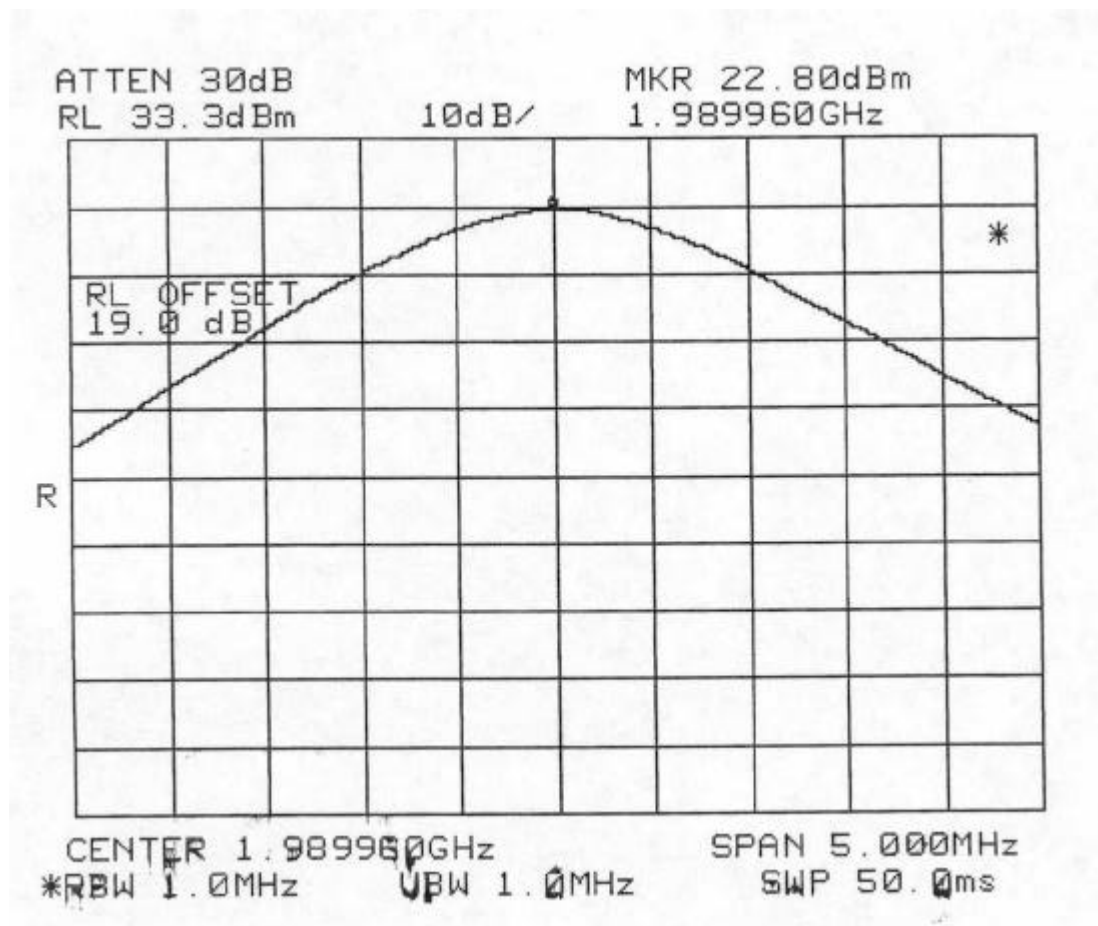


Exhibit 6C6

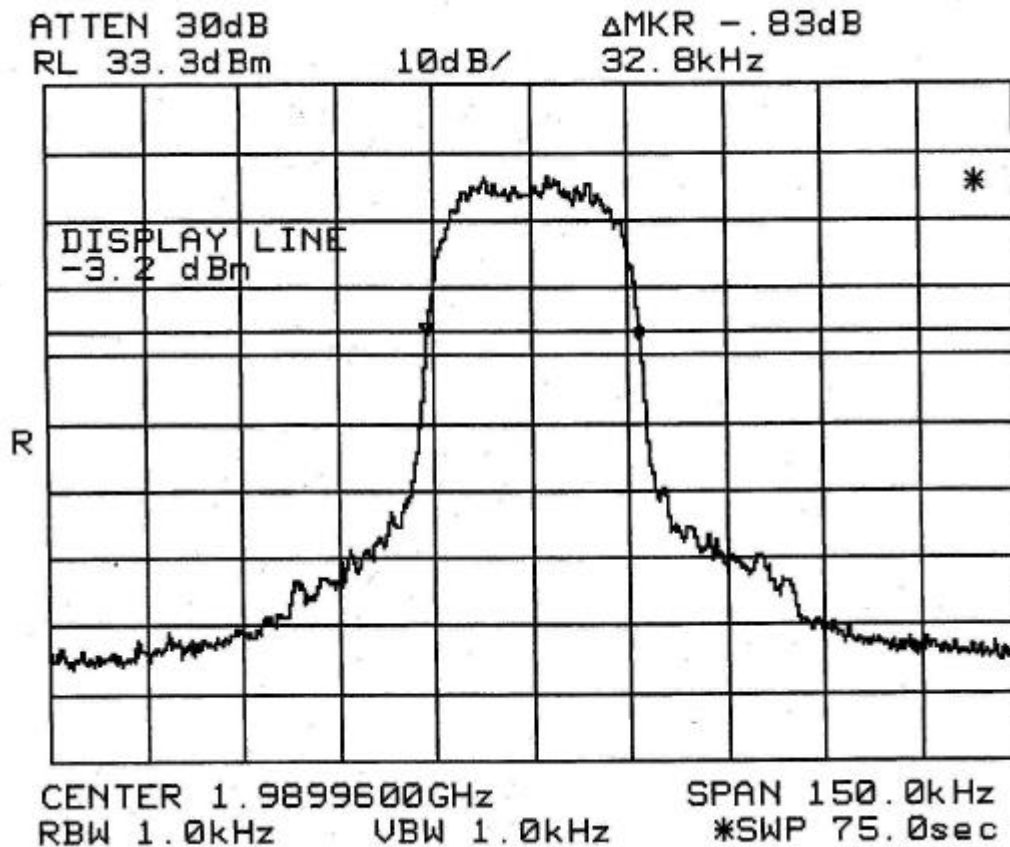


Exhibit 6C7

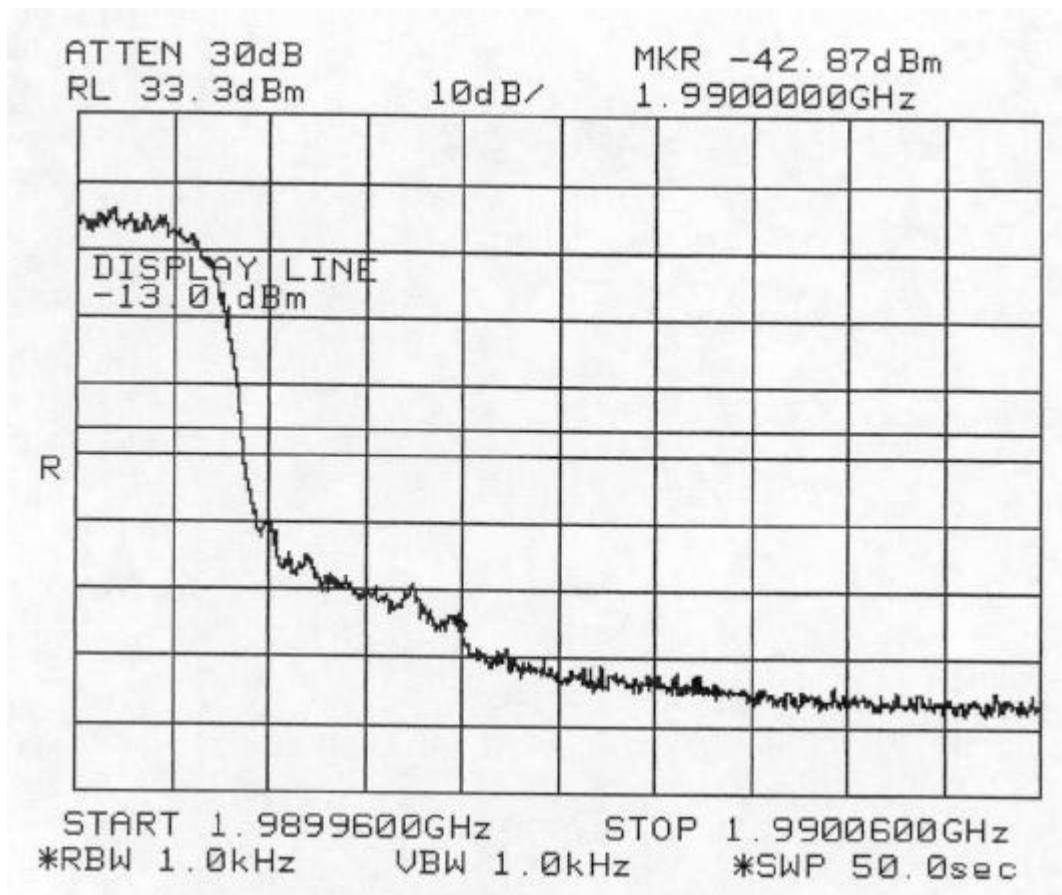


Exhibit 6D1

1900MHz SPURIOUS EMISSIONS (CONDUCTED)

Per 2.1051, 24.238 Spurious emissions at the antenna terminals (conducted) when properly loaded with an appropriate artificial antenna were measured.

Note: The spectrum was examined through the 10th harmonic of the carrier.

<u>EXHIBIT #</u>	<u>FREQUENCY (MHz)</u>	<u>Output Power level</u>
6D2	1960 MHz	0 = Highest output (no attenuation)

The measurements were made using the following equipment:

Hewlett Packard Spectrum Analyzer Model 8563E
Hewlett Packard AC Power Source Model 6813A
Gigatronics Universal Power Meter Model 8651A

Exhibit 6D2

No spurious emissions found.

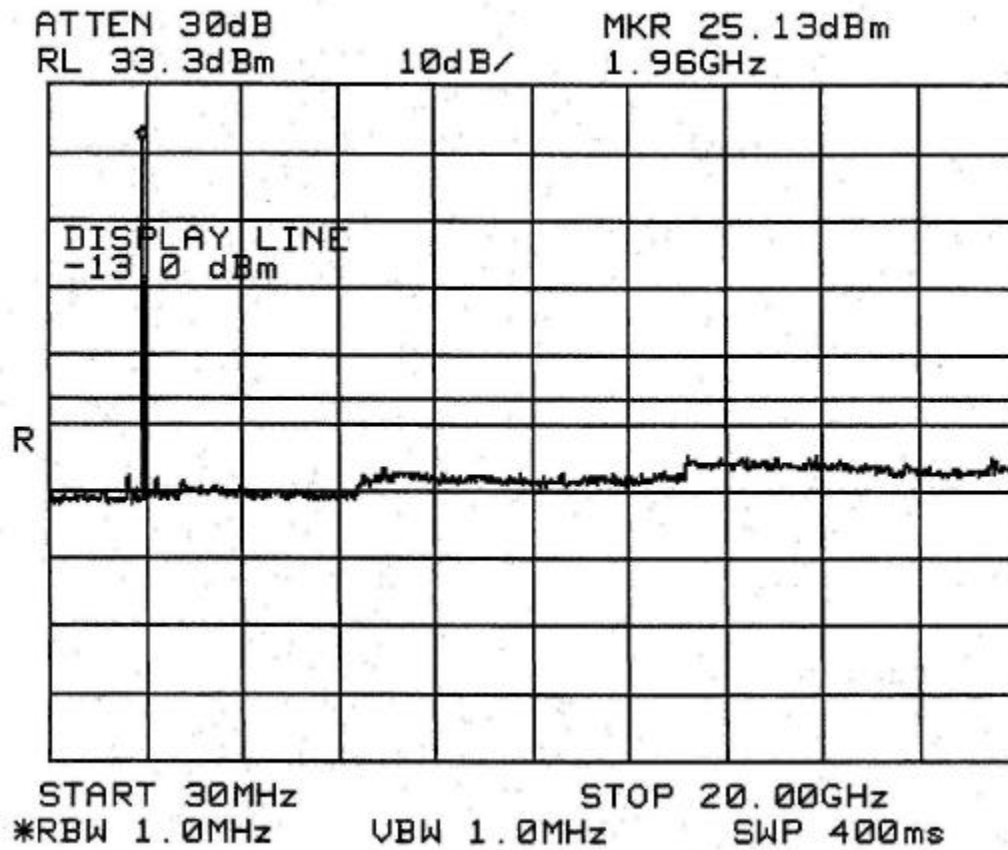


Exhibit 6E1

1900 MHz: SPURIOUS EMISSIONS (Radiated)

Per 2.1053 and 24.238 field strength of spurious radiation was measured at Underwriters Laboratories Inc. Research Triangle Park, NC site. No failing spurious emissions were found.
For results see the below UL test results.

Note: The spectrum was examined through the 10th harmonic of the carrier with the UUT set at its highest output power (no attenuation). Peak radiated emissions were recorded.

Project: 01RT3650
File: MC1007

Underwriters Laboratories, Inc.
Test Report on Electromagnetic Compatibility
Test Report: 010169

Issued: 03/06/01
Page 25 of 26

Test 3, Item A - Discrete Data:

Radiated Spurious Emissions

Test Item	Frequency (MHz)*	Polarity (V/H)	8449 Amp? (Y/N)	Spectrum Analyzer Internal Atten. (dB)	Spectrum Analyzer Reading (dBμV)	Antenna Height (cm)	Turntable Angle (°)	Spectrum Analyzer Reading -13dBm reference subst. (dBμV)	Equivalent Radiated Power (dBm, dipole reference)
A	1931.334	V	Y	10	56.0	1 - 4 m	rot	93.0	-50.0
A	5790.255	V	Y	10	45.5	1 - 4 m	rot	76.7	-44.2
A	7723.388	V	Y	10	35.8	1 - 4 m	rot	70.4	-47.6
A	1930.735	H	Y	10	54.8	1 - 4 m	rot	92.6	-50.8
A	3960.525	H	Y	10	39.2	1 - 4 m	rot	81.2	-55.0
A	5790.255	H	Y	10	48.8	1 - 4 m	rot	76.4	-40.6
A	7723.388	H	Y	10	44.7	1 - 4 m	rot	69.1	-37.4

Exhibit 6F1

1900 MHz: FREQUENCY STABILITY

Per 2.1055 (a)(1),(b),(d)(2), 24.235

<u>EXHIBIT #</u>	<u>Voltage</u>	<u>Temperature</u>
6F2	-15 % to 115% of Nominal	+25 C
6F3	27V	-30 C to +50 C

Note: The nominal rated voltage for the full system that the UUT resides in is 120/240 VAC. The DC voltage to the board, UUT, is supplied by a regulated AC power supply. Nominal output voltage of the power supply is 26.5Vdc +/- 10% or better. The DC voltage shown on 6F2 was varied to simulate worst case voltage variation the UUT can operate under and exceeds the worst case variation that the AC power supply will supply..

The measurements were made using the following equipment:

Hewlett Packard Universal Counter Model 53131A
Hewlett Packard AC Power Source Model 6813A
Gigatronics Universal Power Meter Model 8651A
Thermotron SM-8C Temperature Chamber

Exhibit 6F2

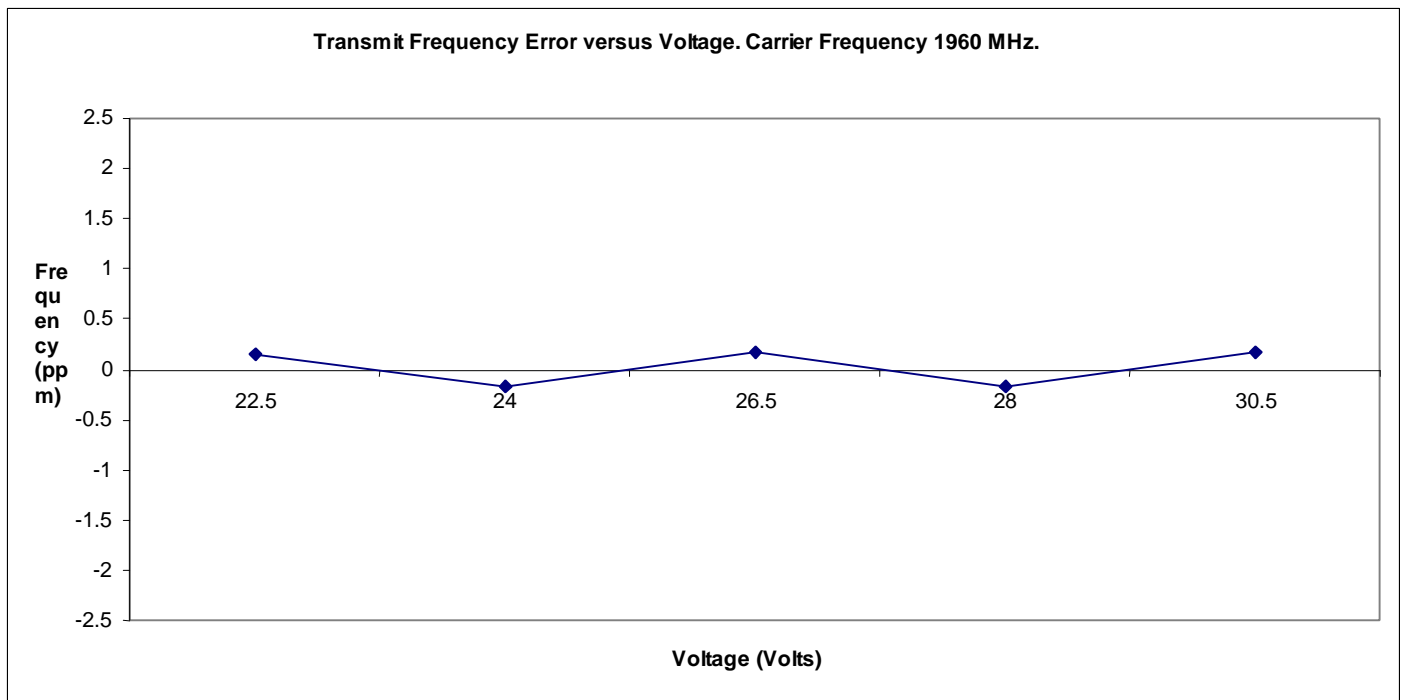


Exhibit 6F3

