

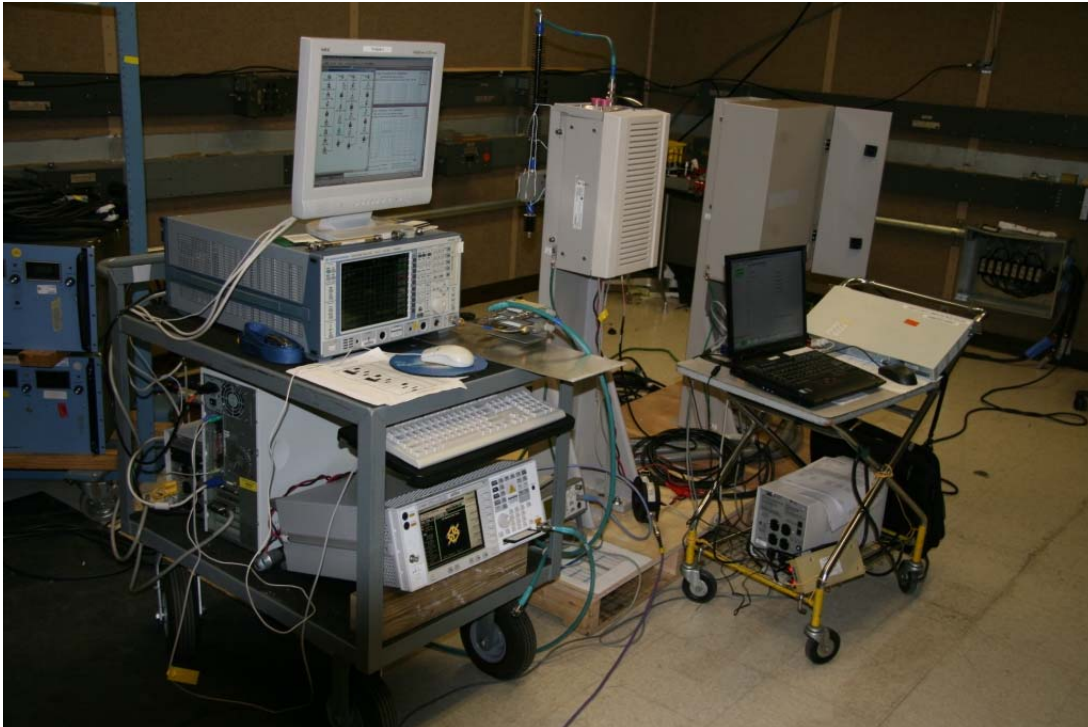
EXHIBIT 5: TEST SET UP PHOTOGRAPHS

The photographs in this exhibit show the test equipment configuration for each test performed.

Alcatel-Lucent’s wireless *UMTS 9341 RRH 40W 1900 MHz System*, is the subject of this application for authorization by the Federal Communications Commission under the new FCC ID: AS5ONEBTS-18. Alcatel-Lucent’s Universal Mobile Telecommunications System (UMTS) Distributed Base Station System (1900 MHz) is designed to operate in the North America Region (NAR) Broadband Personal Communications Service (PCS) Frequency Spectrum 1930-1990 MHz, with bandwidth of 60 MHz. The Distributed Base Station (DBS) can be configured for both single carrier (1S1C) operation at 40 Watts (+46 dBm) and for two carrier (1S2C) operation at 20 Watts (+43 dBm) per carrier with a total composite power of 40 Watts. The RF power rating is based the 3-second average, employing the Aggregate Overload Control (AOC) algorithm. Enhanced Digital Predistortion (EDPD) and Closed Loop Gain Control (CLGC) are features that are enabled for each carrier. The carrier power level and frequency are remotely controlled by software. The single UMTS carrier has a 5 MHz bandwidth, with an emission designator at 4M10F9W, based on measurement of the Necessary Bandwidth. UMTS modulation capability demonstrated includes 1) up to 68 active channels, consisting of 64 voice + 4 control, 2) up to 44 active channels, which include 8 High Speed Downlink Packet Access (HSDPA) channels, and 3) a single active channel *Synchronization Channel (SCH)*.

- TEST:** **Measurement of RF Power Output**
- Measurement of Modulation Characteristics**
- Measurement of Occupied Bandwidth**
- Measurement of Spurious Emissions at the Antenna Terminals**

View: **UMTS Distributed Base Station system, *UMTS 9341 RRH 40W 1900 MHz System*, front view showing all instrumentation and control RMT computer.**



TEST: Measurement of RF Power Output
Measurement of Modulation Characteristics
Measurement of Occupied Bandwidth
Measurement of Spurious Emissions at the Antenna Terminals

View: UMTS Distributed Base Station, *UMTS 9341 RRH 40W 1900 MHz System*, system rear view .



TEST: Measurement of RF Power Output
Measurement of Modulation Characteristics
Measurement of Occupied Bandwidth
Measurement of Spurious Emissions at the Antenna Terminals

View: UMTS Distributed Base Station, *UMTS 9341 RRH 40W 1900 MHz System*, system rear view close up of RF RRH 1900 MHz.



TEST: Measurement of Radiated Spurious Emissions

View: UMTS Distributed Base Station, *UMTS 9341 RRH 40W 1900 MHz System*, system front view, showing test configuration in the Whippany Semi-Anechoic Chamber.



TEST: Measurement of Radiated Spurious Emissions

View: UMTS Distributed Base Station, *UMTS 9341 RRH 40W 1900 MHz System*, system rear view, showing test configuration in the Whippany Semi-Anechoic Chamber.



TEST: Measurement of Frequency Stability

This test was performed at Alcatel-Lucent, Swindon, UK

View: UMTS 1900 MHz Distributed Base Station System, UMTS 9341 RRH 40W 1900 MHz System, Front View Showing Test Configuration Utilized for the Measurement of Frequency Stability of the RF Radio Head (RRH)

Temperature/Environmental Chamber Internal View Showing Equipment Frame Under Test (EUT).

