

GENERAL INFORMATION REQUIREMENTS

Paragraph 2.983(a)

Name of Applicant: Nucomm, Inc.
Address of Applicant: 101 Bilby Road
Hackettstown, NJ 07840
Name of Manufacturer: Nucomm, Inc.

Paragraph 2.983(b)

Equipment
Identification: **FCC ID: I4U27CMT1-L5-E1P5**

Applicant: Nucomm, Inc.
FCC ID: I4U27CMT1-L5-E1P5
Retlif Testing Laboratories Report No.: R-11549

Para. 2.1053
FIELD STRENGTH of SPURIOUS EMISSIONS, EFFECTIVE RADIATED POWER

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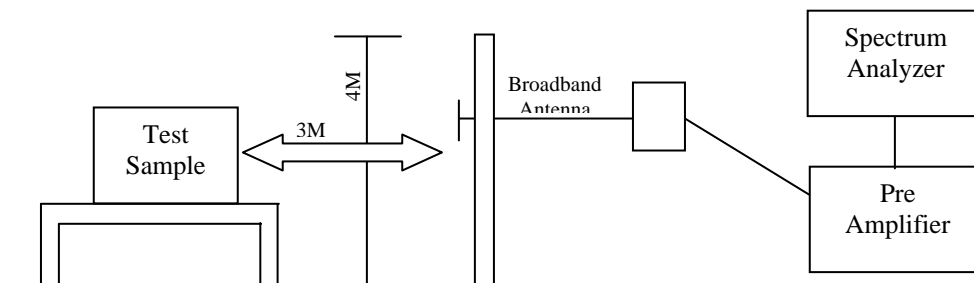
FIELD STRENGTH of SPURIOUS EMISSIONS, EFFECTIVE RADIATED POWER (Para. 2.1053)

A. Measurement Procedure:

The spurious emissions of the transmitter from 30 MHz to 40 GHz were measured in accordance with TIA/EIA603, Paragraph 2.2.1.2 as described below:

The transmitter under test was placed on an 80-cm high non-metallic table on the Open Air Test Site with its antenna terminated into a shielded load. A receive antenna was placed three meters away from the transmitter. The turntable was rotated 360 degrees and the receive antenna was raised and lowered from 1 to 4 meters until a maximum reading was obtained at each spurious emission detected. This reading was recorded. The transmitter under test was replaced with a dipole (or equivalent antenna) and signal generator. The signal generator was set to the frequency for the spurious emission. The level of the signal generator was increased until the level was equal to that previously measured. The required input level from the signal generator in dBm was recorded and the antenna gain (in dB) of the transmit antenna was added. This was the Effective Radiated Power of the spurious emission.

Setup of the test is shown below:



A. Test Results:

The EUT was found to comply with the requirements specified for this test method

EQUIPMENT LIST

TIA / EIA-603-192, Section 2.2.12, Radiated Spurious Emissions (30 MHz to 40 GHz)

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due Date
067	Open Area Test Site	Retlif	3 Meter	RNY	9/12/2006	9/12/2009
128	Double Ridged Guide	Electro-Mechanics	1 GHz - 18 GHz	3105	3/27/2006	3/27/2007
133	Broadband Pre-Amplifier	Electro-Metrics	10 kHz - 1 GHz, 26dB	BPA-1000	6/27/2006	6/27/2007
206B	6.0 dB Attenuator	Texscan	0 - 1.0 GHz	FP-50 - 6 dB	6/27/2006	6/27/2007
450A	Tuned Dipole Antenna	Empire Devices	30 - 140 MHz	DM-105-T1	8/12/2003	11/12/2006
450B	Tuned Dipole Antenna	Empire Devices	140 - 400 MHz	DM-105-T2	8/12/2003	11/12/2006
450C	Tuned Dipole Antenna	Empire Devices	400 - 1000 MHz	DM-105-T3	8/12/2003	11/12/2006
523	Biconilog	Electro-Mechanics	26 - 2000 MHz	3142B	11/10/2005	11/10/2006
543	Preamplifier	Hewlett Packard	1.0 GHz - 26.5 GHz	8449B	9/9/2005	9/9/2007
648	Power Meter	Boonton Electronics	10 kHz - 100 GHz	4232A	11/23/2005	11/23/2006
649B	Power Sensor	Boonton Electronics	10 kHz - 8 GHz	51011-EMC	6/1/2006	6/1/2007
7016	EMC Analyzer	Hewlett Packard	9kHz - 1.8GHz	8591EM	7/27/2006	7/27/2007
762	AM/FM Signal Generator	Marconi Instru.	10 kHz - 1.2 GHz	2023	7/25/2006	7/25/2007
763	Spectrum Analyzer	Agilent	30 Hz - 13.2 GHz	E4405B	8/18/2006	8/18/2007
896	EMI Test Receiver	Rohde & Schwarz	20 Hz - 40 GHz	ESIB40	9/5/2006	9/5/2007
896B	Cable	Retlif	10 kHz - 18 GHz	10 Ft.	10/17/2006	10/17/2007
896C	Cable	Retlif	10 kHz - 18 GHz	3 Ft.	6/3/2006	6/3/2007

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