

## 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: I4U23VT2-P10**

Applicant: Nucomm, Inc.  
FCC ID: I4U23VT2-P10  
Retlif Testing Laboratories Report No.: R-12033

Para. 2.1053

Field Strength of Spurious Emissions, Effective Radiated Power

Applicant: Nucomm, Inc.

FCC ID: I4U23VT2-P10

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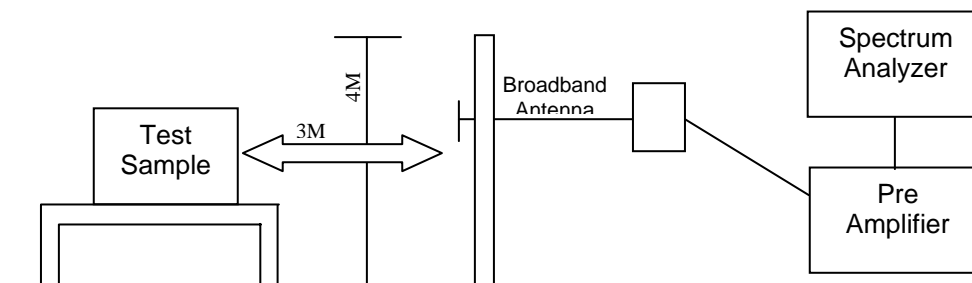
## Field Strength of Spurious Emissions, Effective Radiated Power (Para. 2.1053)

### 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

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## Equipment List

<u>EN/ RSI INV #</u>	<u>DESCRIPTION</u>	<u>MANUFACTURER</u>	<u>MODEL #</u>	<u>SERIAL #</u>	<u>LAST CAL DATE</u>	<u>CAL DUE DATE</u>
713	EMI Test Reciever	Rohde & Schwarz	ESI26	834000/008	8/3/2006	8/3/2007
8018	ANTENNA	EMCO	3115	2023	6/18/2007	6/18/2008
8061B	10' Cable w/N Conn	Andrew	ETS1A-PNMNM-10	NSN	6/13/2007	9/13/2007
8061C	3' Cable w/N Conn	Andrew	ETS1A-PNMNM-3	NSN	6/13/2007	9/13/2007
8317	Pre-Amplifoer	AGILENT	8449B	3008A02311	11/21/2006	11/21/2007

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**FCC Part 74, Spurious Case Radiated Emissions, 30 MHz to 25 GHz  
Test Data**

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<b>Test Method:</b>		<b>FCC Part 74, Spurious Case Radiated Emissions, 30 MHz to 25 GHz.</b>					
<b>Customer:</b>		Nucomm Inc.			<b>Job No.:</b>		R-12033
<b>Test Sample:</b>		Digital and Analog Eng/Ob Microwave Transmitter System w/Control unit and RF Head.					
<b>Model No.:</b>		23NCVT2-P10-339			<b>Serial No.:</b>		20002-003
<b>Operating Mode:</b>		Operated with 3 frequency channels, 2 power levels and 2 types of modulation.					
<b>Technician:</b>		RW/RR			<b>Date:</b>		7-30-2007
<b>Notes:</b>		Test Distance: 3 Meters * Minimum System Sensitivity.		Temp:23 °C		Humidity:44 %	
Channel	Mode/Power	Frequency	Meter Readings	Preamp Factor	Cable&Antenna Factor	Corrected Reading	Limit
1-10		GHz	dBuV	dB	dB	dBuV/m	dBuV/m
Horizontal							
1	Analog/High	3.998	40.8 *	34.7	34.6	40.7	84
1	Analog/Low	3.998	40.9 *	34.7	34.6	40.8	84
1	Digital/High	3.998	41.3 *	34.7	34.6	41.2	84
1	Digital/Low	3.998	41.9 *	34.7	34.6	41.8	84
Vertical							
1	Analog/High	3.998	41.2 *	34.7	34.6	41.1	84
1	Analog/Low	3.998	40.6 *	34.7	34.6	40.5	84
1	Digital/High	3.998	40.8 *	34.7	34.6	40.7	84
1	Digital/Low	3.998	40.1 *	34.7	34.6	40.0	84
Horizontal							
5	Analog/High	4.135	41.1 *	34.7	34.6	41.0	84
5	Analog/Low	4.135	41.0 *	34.7	34.6	40.9	84
5	Digital/High	4.135	40.5 *	34.7	34.6	40.4	84
5	Digital/Low	4.135	40.9 *	34.7	34.6	40.8	84
Vertical							
5	Analog/High	4.135	40.9 *	34.7	34.6	40.8	84
5	Analog/Low	4.135	40.5 *	34.7	34.6	40.4	84
5	Digital/High	4.135	40.8 *	34.7	34.6	40.7	84
5	Digital/Low	4.135	40.6 *	34.7	34.6	40.5	84
Horizontal							
10	Analog/High	4.9835	42.5 *	34.6	36.1	44.0	84
10	Analog/Low	4.9835	40.8 *	34.6	36.1	42.3	84
10	Digital/High	4.9835	41.2 *	34.6	36.1	42.7	84
10	Digital/Low	4.9835	40.7 *	34.6	36.1	42.2	84
Vertical							
10	Analog/High	4.9835	41.0 *	34.6	36.1	42.5	84
10	Analog/Low	4.9835	41.2 *	34.6	36.1	42.7	84
10	Digital/High	4.9835	41.4 *	34.6	36.1	42.9	84
10	Digital/Low	4.9835	40.7 *	34.6	36.1	42.2	84
	The frequency range was scanned from 30 MHz to 25 GHz.						
	The emissions observed from the EUT do not exceed the specified limits.						
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