

## 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**

Para. 2.1053

Field Strength of Spurious Emissions, Effective Radiated Power

Applicant: Nucomm, Inc.

FCC ID: I4U27CMT1-L5-E1P5

Retlif Testing Laboratories Report No.: R-11907

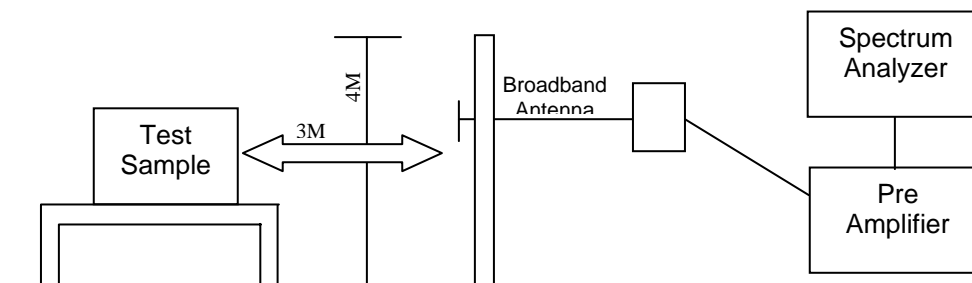
## Field Strength of Spurious Emissions, Effective Radiated Power (Para. 2.1053)

### 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-603-1992, Section 2.2.12, Radiated Spurious Emissions 30 MHz to 26 GHz

<b>EN</b>	<b>Type</b>	<b>Manufacturer</b>	<b>Description</b>	<b>Model No.</b>	<b>Cal Date</b>	<b>Due Date</b>
067	Open Area Test Site	Retlif	3 Meter	RNY	9/12/2006	9/12/2009
133	Broadband Pre-Amplifier	Electro-Metrics	10 kHz - 1 GHz, 26dB	BPA-1000	6/27/2006	6/27/2007
141	Spectrum Analyzer	Hewlett Packard	100 Hz - 40 GHz	8566B	10/10/2006	4/10/2007
141A	Graphics Plotter	Hewlett Packard	N/A	7470A	3/12/2007	3/12/2008
206B	6.0 dB Attenuator	Texscan	0 - 1.0 GHz	FP-50 - 6 dB	6/27/2006	6/27/2007
4003	Double Ridge Guide	Tensor	1 GHz - 18 GHz	4015	3/27/2007	3/27/2008
512	Graphics Plotter	Hewlett Packard	N/A	7470A	10/18/2006	10/18/2007
523	Biconilog	Electro-Mechanics	26 - 2000 MHz	3142B	11/10/2006	11/10/2007
617	Interference Analyzer	Electro-Metrics	10 kHz - 1 GHz	EMC-30	3/30/2007	3/30/2008
723	H.P. Filter	Mini-Circuits	1 GHz	BHP-1000	8/7/2006	8/7/2007
767	Biconilog	EMCO	26 - 2000 MHz	3142B	10/12/2006	10/12/2007

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Radiated Spurious Emissions  
30 MHz to 26 GHz  
Digital Modulation, 12 MHz Channel  
Low Power Test Data

Applicant: Nucomm, Inc.  
FCC ID: I4U27CMT1-L5-E1P5  
Retlif Testing Laboratories Report No.: R-11907

Page 1 of 18

Page 6 of 26

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FCC ID: I4U27CMT1-L5-E1P5  
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Radiated Spurious Emissions  
30 MHz to 26 GHz  
Analog Modulation, 12 MHz Channel  
Low Power Test Data

Applicant: Nucomm, Inc.  
FCC ID: I4U27CMT1-L5-E1P5  
Retlif Testing Laboratories Report No.: R-11907

### NO EMISSIONS OBSERVED AT THE SPECIFIED TEST DISTANCE

Page 7 of 18

Page 13 of 26

Page 8 of 18

Page 14 of 26

Page 9 of 18

Page 15 of 26

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FCC ID: I4U27CMT1-L5-E1P5  
Retlif Testing Laboratories Report No.: R-11907



Radiated Spurious Emissions  
30 MHz to 26 GHz  
Analog Modulation, 17 MHz Channel  
Low Power, Test Data

Applicant: Nucomm, Inc.  
FCC ID: I4U27CMT1-L5-E1P5  
Retlif Testing Laboratories Report No.: R-11907

**NO EMISSIONS OBSERVED AT THE SPECIFIED TEST DISTANCE**

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Radiated Spurious Emissions  
30 MHz to 26 GHz  
Digital Modulation, 17 MHz Channel  
Low Power Test Data

Applicant: Nucomm, Inc.  
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Page 17 of 18

Page 25 of 26

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