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: I4U23VT2L**

Para. 2.1053

FIELD STRENGTH of SPURIOUS EMISSIONS, EFFECTIVE RADIATED POWER

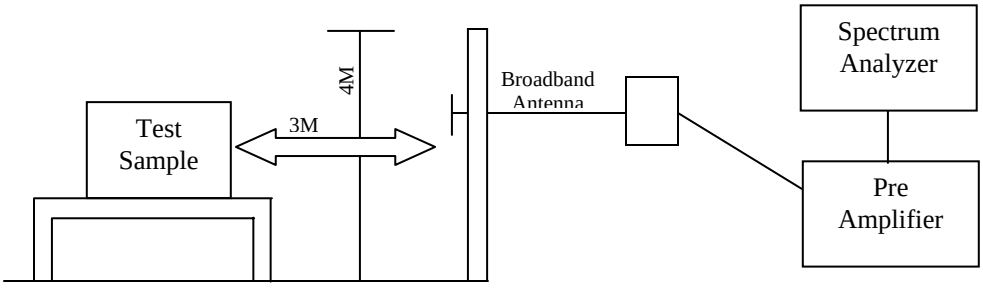
FIELD STRENGTH of SPURIOUS EMISSIONS, EFFECTIVE RADIATED POWER (Para. 2.1053)

A. Measurement Procedure:

The spurious emissions of the transmitter from 10 kHz 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:



EQUIPMENT LISTS

TIA/EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz to 26 GHz)

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due Date
067	Open Area Test Site	Retlif	3 Meter	RNY	10/1/2003	10/1/2006
1007	10.0 dB Attenuator	Narda	DC - 18 GHz	776C-10	11/29/2005	11/29/2006
1009	30.0 dB Attenuator	Narda	DC - 18 GHz	776C-30	11/29/2005	11/29/2006
128C	Double Ridge Guide	Eaton Corporation	1 GHz - 18 GHz	96001	8/17/2005	8/17/2006
129D	High Gain Horn Antenna	Microlab/FXR	12.4 GHz - 18 GHz	Y638A	9/16/2005	9/16/2006
129F	High Gain Horn Antenna	Microlab/FXR	18 GHz - 26.5 GHz	K638A	9/16/2005	9/16/2006
141	Spectrum Analyzer	Hewlett Packard	100 Hz - 40 GHz	8566B	8/28/2005	2/28/2006
141A	Graphics Plotter	Hewlett Packard	N/A	7470A	2/9/2006	2/9/2007
141B	Quasi-Peak Adaptor	Hewlett Packard	100 Hz - 1 GHz	85650A	8/28/2005	2/28/2006
141C	Cable	Retlif	1 GHz ~ 18 GHz	1 METER, BLUE	1/4/2006	1/4/2007
141D	Cable	Retlif	1 GHz ~ 18 GHz	10 METER, BLACK	1/4/2006	1/4/2007
399	Log Periodic Antenna	Antenna Research	1 GHz - 12 GHz	LPD-112	9/28/2005	9/28/2006
420	Amplifier	Hewlett Packard	2.0 GHz - 18 GHz	11975A	10/31/2005	10/31/2006
421	Harmonic Mixer	Hewlett Packard	18 GHz - 26.5 GHz	11970K	9/29/2003	9/29/2006
450A	Tuned Dipole Antenna	Empire Devices	30 - 140 MHz	DM-105-T1	8/12/2003	8/12/2006
450B	Tuned Dipole Antenna	Empire Devices	140 - 400 MHz	DM-105-T2	8/12/2003	8/12/2006
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
648A	Power Meter	Boonton Electronics	10 kHz - 100 GHz	4232A	6/7/2005	6/7/2006
649	Power Sensor	Boonton Electronics	10 kHz - 8 GHz	51011-EMC	4/20/2005	4/20/2006
712A	Cable	Retlif	10 kHz - 18 GHz	R&S Analyzer	1/21/2005	7/21/2006
712B	Cable	Retlif	10 kHz - 18 GHz	R&S Analyzer	1/21/2005	7/21/2006
711	Microwave Sweeper	Gigatronics	500 MHz - 20 GHz	GT9000S/.5-20	10/18/2005	10/18/2006
723	H.P. Filter	Mini-Circuits	1 GHz	BHP-1000	7/20/2005	7/20/2006

TEST SETUP PHOTOGRAPHS

RADIATED SPURIOUS EMISSIONS TEST DATA

Applicant: Nucomm, Inc.
FCC ID: I4U23VT2L
Retlif Testing Laboratories Report No.: R-11200

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 1, Digital COFDM Modulation, 17 MHZ channels Transmitting at 1999 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
3848.0	V / 1.0	158.0	53.1	-41.4	7.0	4.5	-29.9	
3852.0	H / 1.0	158.0	57.8	-36.3	7.0	4.5	-24.8	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 7, Digital COFDM Modulation, 17 MHZ channels Transmitting at 2101.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
3953.0	H / 1.0	158.0	55.6	-35.5	7.4	4.6	-23.5	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 10, Digital COFDM Modulation, 17 MHZ channels Transmitting at 2492.5 MHz		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
4345.0	H / 1.0	180.0	66.0	-28.0	7.0	5.0	-16.0	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 1, FM Modulation, 17 MHZ channels Transmitting at 1999 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
3848.0	V / 1.0	158.0	52.7	-41.4	7.0	4.5	-29.9	
3852.0	H / 1.0	158.0	58.1	-35.8	7.0	4.5	-24.3	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 7, FM Modulation, 17 MHZ channels Transmitting at 2101.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
3953.0	V / 1.0	113.0	50.6	-44.4	7.3	4.6	-32.5	
3954.0	H / 1.0	158.0	55.5	-37.8	7.3	4.6	-25.9	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 10, FM Modulation, 17 MHZ channels Transmitting at 2492.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
4344.0	V / 1.0	135.0	64.7	-29.3	7.0	4.8	-17.5	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 1, Digital COFDM Modulation, New BAS relo channels 12 MHz channel spacing plan. Transmitting at 2013.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 2, Digital COFDM Modulation, New BAS relo channels 12 MHz channel spacing plan Transmitting at 2043.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 3, Digital COFDM Modulation, New BAS relo channels 12 MHz channel spacing plan. Transmitting at 2055.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
3902.0	V / 1.0	68.0	53.9	-41.3	7.0	4.5	-29.8	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 4, Digital COFDM Modulation, New BAS relo channels 12 MHz channel spacing plan. Transmitting at 2067.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
3919.0	V / 1.0	135.0	51.9	-41.4	7.0	4.5	-29.9	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 5, Digital COFDM Modulation, New BAS relo channels 12 MHz channel spacing plan Transmitting at 2079.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
3924.0	V / 1.0	203.0	49.4	-45.3	7.0	4.5	-33.8	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 6, Digital COFDM Modulation, New BAS relo channels 12 MHz channel spacing plan Transmitting at 2091.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
3944.0	V / 1.0	68.0	51.2	-42.6	7.0	4.5	-31.1	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 7, Digital COFDM Modulation, New BAS relo channels 12 MHz channel spacing plan Transmitting at 2103.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
3956.0	V / 1.0	135.0	51.3	-43.0	7.0	4.5	-31.5	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 8, Digital COFDM Modulation, New BAS relo channels 12 MHz channel spacing plan Transmitting at 2453.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
4311.0	V / 1.0	135.0	62.3	-31.3	7.0	4.5	-19.8	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 9, Digital COFDM Modulation, New BAS relo channels 12 MHz channel spacing plan Transmitting at 2475.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
4322.0	V / 1.0	180.0	62.7	-30.0	7.0	4.5	-18.5	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 10, Digital COFDM Modulation, New BAS relo channels 12 MHz channel spacing plan Transmitting at 2492.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
4344.0	V / 1.0	135.0	62.7	-30.7	7.0	4.5	-19.2	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 1, FM Modulation, New BAS relo channels 12 MHz channel spacing plan Transmitting at 2031.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
3883.0	V / 1.0	135.0	54.3	-40.3	7.0	4.5	-28.8	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 2, FM Modulation, New BAS relo channels 12 MHz channel spacing plan Transmitting at 2043.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 3, FM Modulation, New BAS relo channels 12 MHz channel spacing plan Transmitting at 2055.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
3908.0	V / 1.0	0.0	52.1	-44.2	7.0	4.5	-32.7	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 4, FM Modulation, New BAS relo channels 12 MHz channel spacing plan Transmitting at 2067.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
3914.0	V / 1.0	180.0	51.5	-42.2	7.0	4.5	-30.7	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 5, FM Modulation, New BAS relo channels 12 MHz channel spacing plan Transmitting at 2079.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 6, FM Modulation, New BAS relo channels 12 MHz channel spacing plan Transmitting at 2079.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
3940.0	V / 1.0	180.0	52.3	-42.7	7.0	4.5	-31.2	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.
All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 7, FM Modulation, New BAS relo channels 12 MHz channel spacing plan Transmitting at 2103.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
3955.0	V / 1.0	225.0	52.1	-42.1	7.0	4.5	-30.6	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 8, FM Modulation, New BAS relo channels 12 MHz channel spacing plan Transmitting at 2458.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
4308.0	V / 1.0	135.0	61.3	-33.5	7.0	4.5	-22.0	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 9, FM Modulation, New BAS relo channels 12 MHz channel spacing plan Transmitting at 2475.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
4327.0	V / 1.0	135.0	63.4	-30.1	7.0	4.5	-18.6	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.

Test Method:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)		
Customer:	Nucomm, Inc.	**Job No.**	R-11200
Test Sample:	Digital/Analog ENG/OB Van Transmitter	**Serial No.**	20001-007
Model No.:	NEWSCASTER VT2	**FCC ID:**	I4U23VT2L
Operating Mode:	Color bars plus audio, High power, Channel 10, FM Modulation, New BAS relo channels 12 MHz channel spacing plan Transmitting at 2492.5 MHz.		
Technician:	R. Soodoo	**Date:**	February 14, 2006.

Notes: Test Distance: 3 Meters Temp: 15°C Humidity: 22%
Detector: Peak Limit = (43 + 10 log P) down from fundamental level = -13dBm

Test Freq.	Antenna Position	EUT Orientation	Meter Readings	Signal Generator Reading	Gain Above Isotropic	Cable Factor	ERP	LIMIT
MHz	(V/H) meter	Degrees	dBuV	dBm	dB	dB	dBm	dBm
30.00								-13.0
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.9	-23.4	
162.0	V / 1.0	158.0	75.1	-24.8	2.2	1.0	-21.6	
175.0	V / 1.0	315.0	63.2	-34.9	2.2	0.9	-31.8	
189.0	V / 1.0	90.0	59.4	-36.7	2.2	0.9	-33.6	
332.0	H / 1.0	158.0	60.6	-33.9	2.2	1.3	-30.4	
405.0	H / 1.0	225.0	60.5	-33.3	2.2	2.2	-28.9	
4340.0	V / 1.0	135.0	63.9	-29.1	7.0	4.5	-17.6	
26000.00								-13.0

The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.

All emissions not recorded were more than 20 dB below the limit.