EXHIBIT 6A FCC PART 22 TEST REPORT



Test Report Prepared By: Electronics Test Centre 27 East Lake Hill Airdrie, Alberta Canada T2B 2B7 enquire@etc-mpbtech.com

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MPBT Report No.: c05e2295-1 Rev: 2 Date: 30 July 2001

Report for Emissions Testing of: LoCate

FCC ID: NJILOCA01

In accordance with: FCC Part 2 Frequency Allocations and Radio

Treaty Matters; General Rules and Regulations,

Subpart J (2000)

Test Personnel: E. Hails

Prepared for: CSI Wireless

Suite 260

6815 8th St. NE Calgary, AB T2E 7H7

Client Acceptance Authorized Signatory

David Raynes Laboratory Supervisor Electronics Test Centre (Airdrie) Authorized Signatory Test Sample: FCC Part 2 Subpart J Report No.: c05e2295-1 LoCate – NJILOCA01 rev. 2

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Test Sample: Report No.: c05e2295-1 LoCate - NJILOCA01 rev. 2

1.0 INTRODUCTION

1.1 SCOPE

The purpose of this report is to present the findings and results of compliance testing performed in accordance with CFR 47 FCC Part 2, Subpart J, Equipment Authorization Procedures.

1.2 **APPLICANT**

This test report has been prepared for CSI Wireless, located in Calgary, Alberta, Canada.

1.3 **APPLICABILITY**

All test procedures, limits, and results defined in this document apply to the CSI Wireless LoCate unit, referred to herein as the Equipment Under Test (EUT).

The results contained in this report relate only to the item tested.

This report does not imply product endorsement by NVLAP or the Canadian or US governments.

1.4 **TEST SAMPLE DESCRIPTION**

The test sample provided for testing was a LoCate:

Product Type: **Telecommunications**

Model Number: LOCA01 Serial Number: Rev 01 S/N 4

Cables: power supply, data input/output, cellular antenna, GPS

antenna

Power Requirements: 12 VDC, 1 A

Peripheral laptop computer, RS232 to CMOS level converter

Equipment:

More detailed information is provided by CSI Wireless in Appendix A.

1.5 **GENERAL TEST CONDITIONS AND ASSUMPTIONS**

The EUT was set up and exercised using the configurations, modes of operation and arrangements defined in this report only. All inputs and outputs to and from other equipment associated with the EUT were adequately simulated.

Where relevant, the EUT was only tested using the monitoring methods and test criteria defined in this report.

All testing, unless otherwise noted, was performed under the following environmental conditions:

17 to 23 °C Temperature: Humidity: 45 to 75 % Barometric Pressure: 68 to 106 kPa Test Sample: FCC Part 2 Subpart J Report No.: c05e2295-1 LoCate – NJILOCA01 rev. 2

1.6 SCOPE OF TESTING

Testing was performed in accordance with FCC Part 2 Subpart J (2000).

1.6.1 VARIATIONS IN TEST METHODS

There were no variations from the test procedures outlined above.

1.6.2 MARGINAL EMISSIONS MEASUREMENTS

There were no emissions measured to be closer to the specified limits than -6 dB.

1.6.3 TEST SAMPLE MODIFICATIONS

There were no equipment modifications during test performance.

2.0 ABBREVIATIONS

CE -Conducted Emissions
E -Field - Electric Field
H -Field - Magnetic Field
N/T -Not Tested

N/A -Not Applicable RE -Radiated Emissions

3.0 MEASUREMENT UNCERTAINTY

For Radiated E-Field Emissions and Conducted Emissions, the uncertainties in the measurements were calculated using the methods outlined in the NAMAS document, NIS81: May 1984.

Frequency = $\pm 1 \text{ kHz}$ Amplitude (RE) = $\pm 4.01 \text{ dB}$ Amplitude (CE) = $\pm 3.25 \text{ dB}$

4.0 TEST CONCLUSION

The EUT was subjected to the following tests. Compliance status is indicated as PASS, Marginal Pass, or FAIL.

The following table summarizes the test results in terms of the specification and class or level applied, the unique test sample identification, the EUT modification state, and configuration as applicable.

TEST CASE	TEST TYPE	SPECIFICATION	TEST SAMPLE	MOD. STATE	CONFIGURATION	RESULT
			SAIVIPLE			
§4.1	RF Output	FCC Parts	LoCate	nil	Simulated	PASS
	Power	2.1046 &	NJILOCA01		Installation	
		22.913				
§4.2	Occupied	FCC Part	LoCate	nil	Simulated	PASS
	Bandwidth	2.1049	NJILOCA01		Installation	
§4.3	Spurious	FCC Part	LoCate	nil	Simulated	PASS
	Emissions	2.1051, 2.1057	NJILOCA01		Installation	
	at Antenna	& 22.917(e)				
	Terminals					
§4.4	Radiated	FCC Parts	LoCate	nil	Simulated	PASS
	Emissions	2.1053, 2.1057	NJILOCA01		Installation	
		& 22.917(e)				
§4.5	Frequency	FCC Parts	LoCate	nil	Simulated	PASS
	Stability	2.1055 &	NJILOCA01		Installation	
		22.355				
§4.6	Modulation	FCC Parts	LoCate	nil	Simulated	PASS
	Character-	2.1047 &	NJILOCA01		Installation	
	istics	22.915				

STATEMENT OF COMPLIANCE

The client equipment referred to in this report was found to comply with the requirements as stated above.

4.1 RF POWER OUTPUT

		T		
Test Lab: Electronics T	est Centre (Airdrie)	Product:		
Test Personnel: E. Hail	S	LoCate		
Test Date: 26 April 200	1			
	Test Result, I	LoCate: PASS		
Objectives/Criteria		Specifications		
The effective radiated		FCC Part 22.913		
device at its carrier fr at the antenna termin the limits as specified	nal, shall not exceed	ERP <= 500 W or 57.0 dBm		
Channel	Frequency [MHz]	ERP _{rated} [dBm]	ERP _{meas} [dBm]	
001 – audio mode	825.030	28.00	27.51	
367 – audio mode	836.010	28.00	25.77	
800 – audio mode	849.000	28.00	25.34	
001 – data mode	825.030	28.00	27.00	
367 – data mode	836.010	28.00	25.71	
800 – data mode	849.000	28.00	25.16	

Test Sample: FCC Part 2 Subpart J Report No.: c05e2295-1 LoCate – NJILOCA01 rev. 2

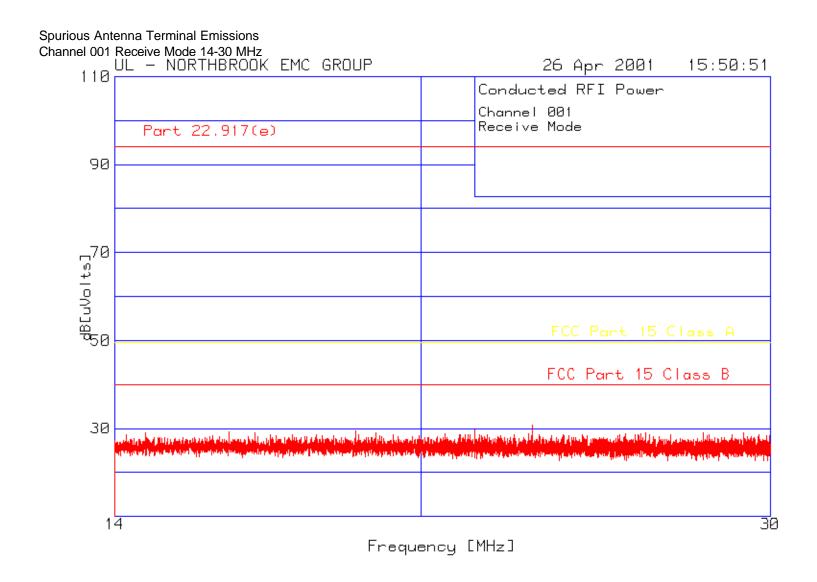
4.2 OCCUPIED BANDWIDTH

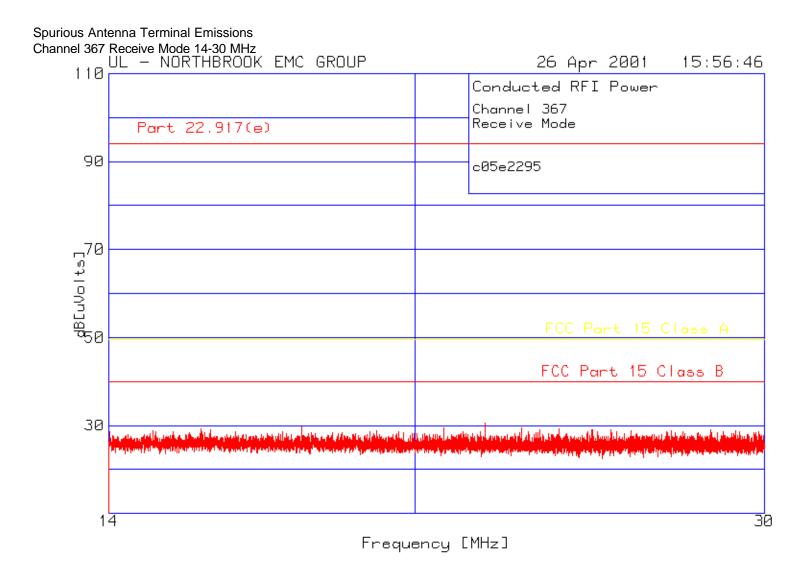
Test Lab: MPB Technologies Inc	. Airdrie		Product:		
Test Personnel: E. Hails			LoCate		
Test Date: 26 April 2001					
	Test Res	ult: L	oCate: PASS		
Objectives/Criteria		Specifications			
The occupied bandwidth shall be measured at its antenna terminal at the carrier frequency such that:			The occupied bandwidth and channel spacing for audio mode transmission is 30 kHz. The occupied bandwidth and channel spacing for data mode transmission is 60 kHz.		
99.0% of the total mean power (area under the curve of spectral density vs. frequency) emitted by the device is within the occupied bandwidth;					
0.5% of the total mean power lies below the lower frequency limit of the occupied bandwidth; and					
0.5% of the total mean power lies above the higher frequency limit of the occupied bandwidth					
Channel	Channel Fre-		cy [MHz]	Occupied Bandwidth [kHz]	
001 – Audio Mode Transmit	001 - Audio Mode Transmit		030	18.45	
367 – Audio Mode Transmit		836.010		18.45	
800 – Audio Mode Transmit			000	18.45	
001 – Data Mode Transmit			030	34.20	
367 - Data Mode Transmit			010	34.20	
800 – Data Mode Transmit			849.000 34.20		
Comments: The occupied bandwidth was measured using the occupied bandwidth softkey on the spectrum analyzer.					

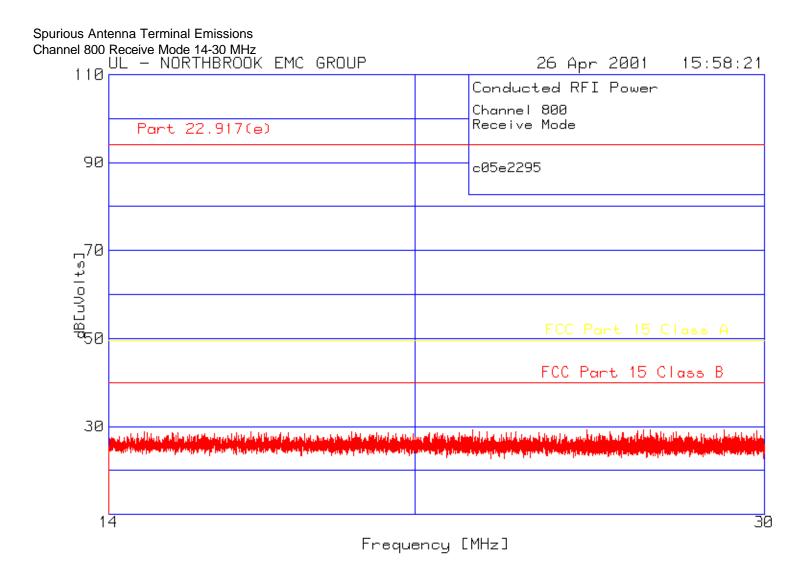
Test Sample: FCC Part 2 Subpart J Report No.: c05e2295-1 LoCate – NJILOCA01 rev. 2

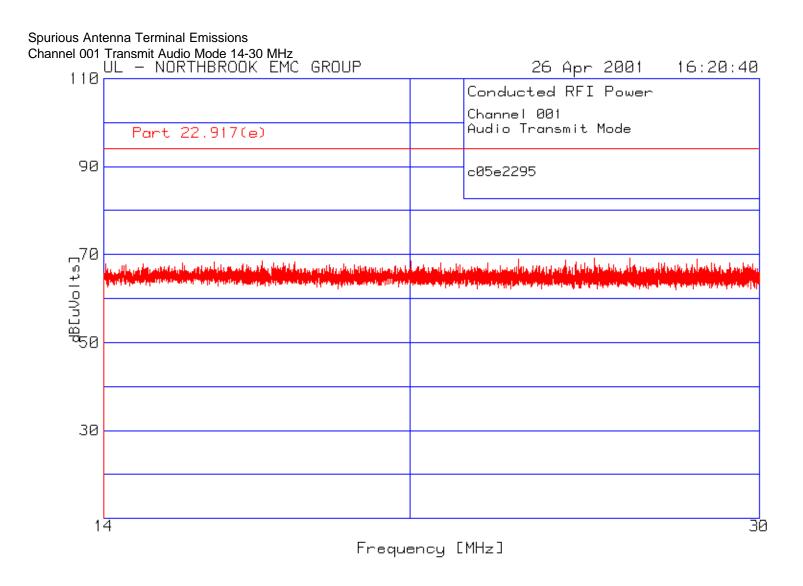
4.3 Spurious Emissions at Antenna Terminals

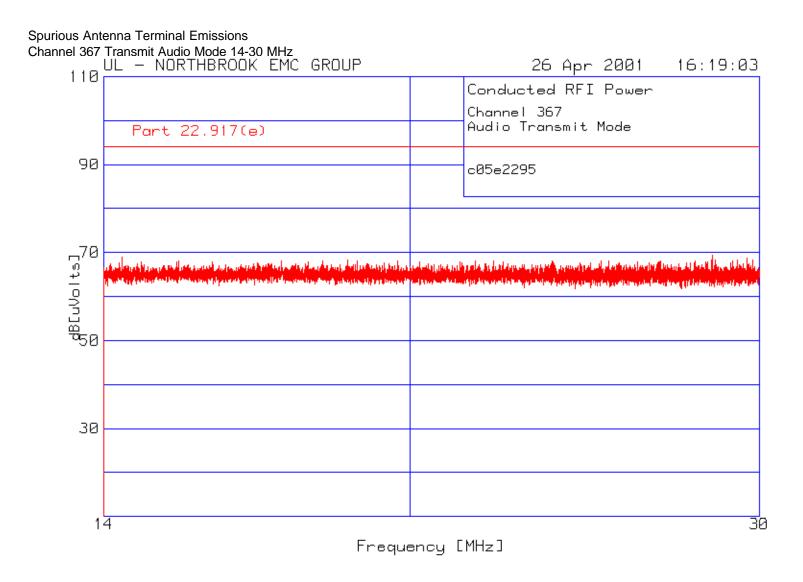
Test Lab: MPB Technol		Product:				
Test Personnel: E. Hails	s		LoCate			
Test Date: 26-27 April 2	:001					
Test Result, LoCate: PASS						
Objectives/Criteria		Specifications				
The spurious emissions		FCC Part 2.1051 and 2.1057				
terminals shall not exce the specifications as sta		FCC Part 22.917(e)				
Emission levels should requirements with a mar	Frequency Emission Level		nission Level			
(NB. f _c denotes carrier f	requency)	9 kHz to lower edge of $f_{\rm c}$ $$ -13 dBm or 94 dB μV			3 dBm or 94 dBμV	
		upper edge of f_c to the $$$ -13 dBm or 94 dB μV tenth harmonic of f_c				
Comments: The only peaks approaching the limit were harmonics of the fundamentals and so do not apply.						
Channel	Frequency [MHz	z]	Emission Level [dB _µ	ιV]	Delta [dB from limit]	
There were no more spurious emissions measured to be within -20 dB of the specified limit. Refer to the test data plots for more details.						

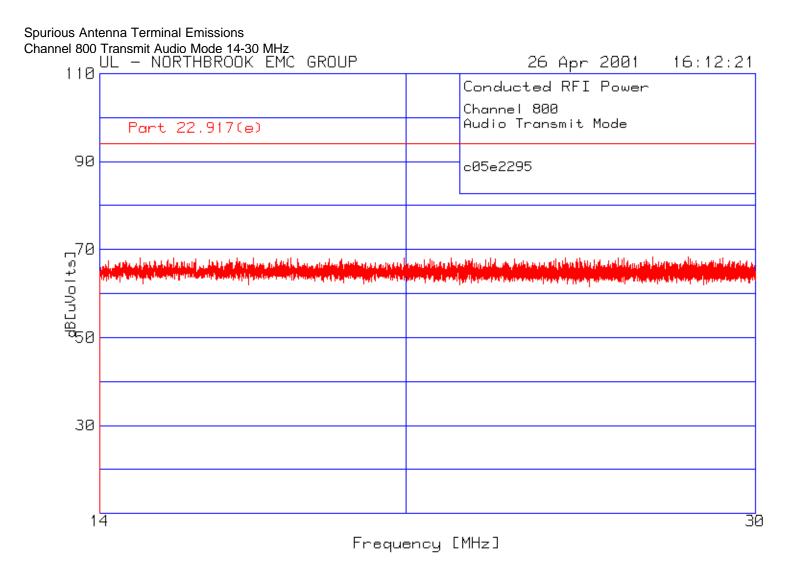


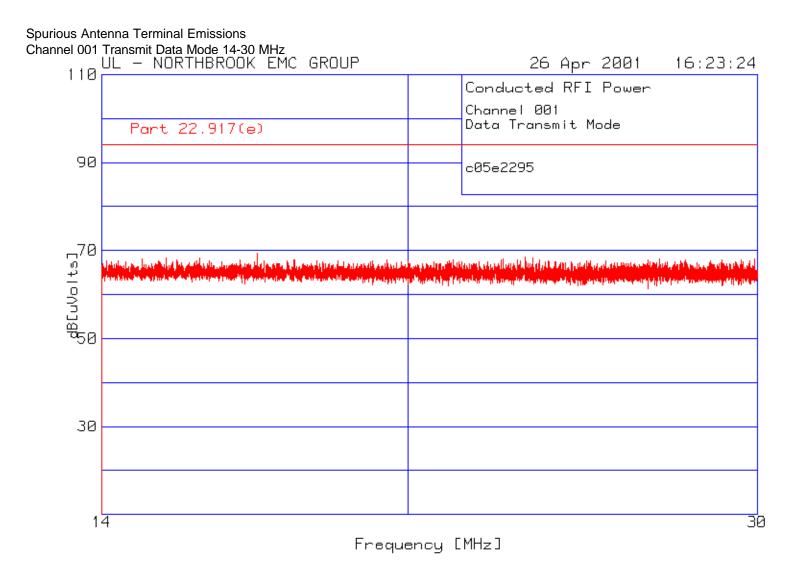


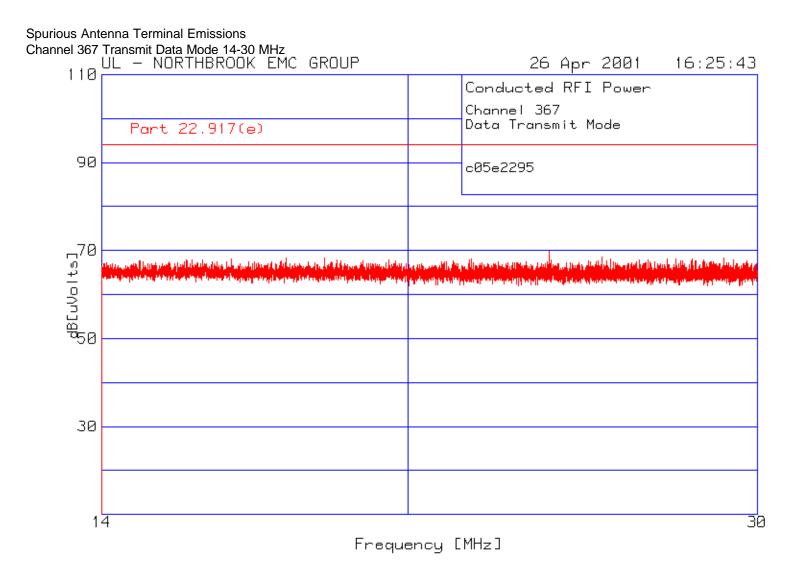


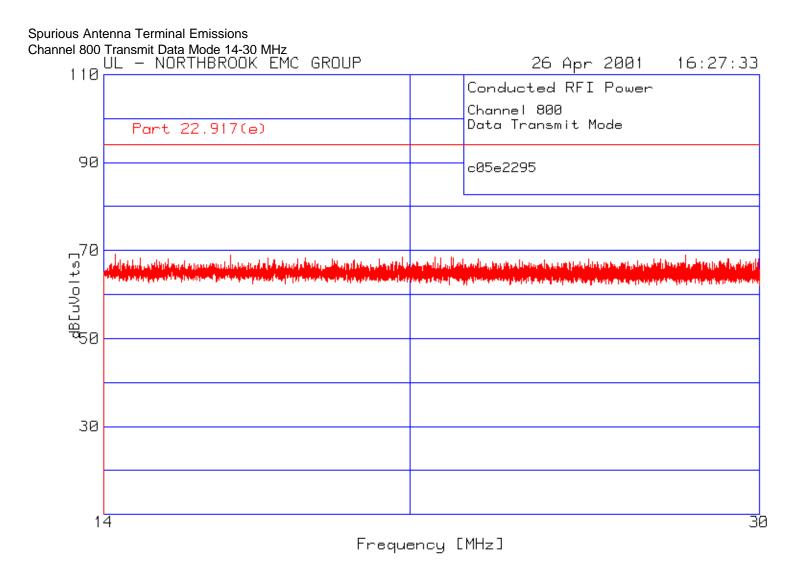


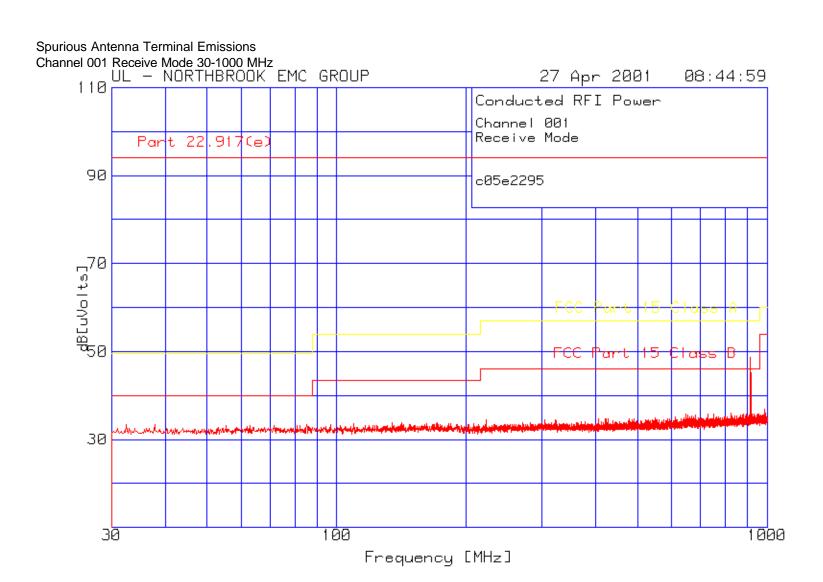


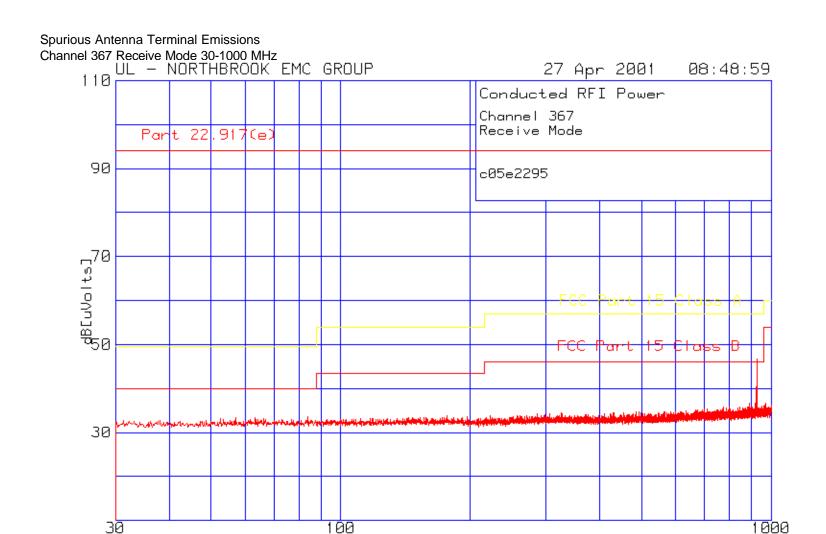








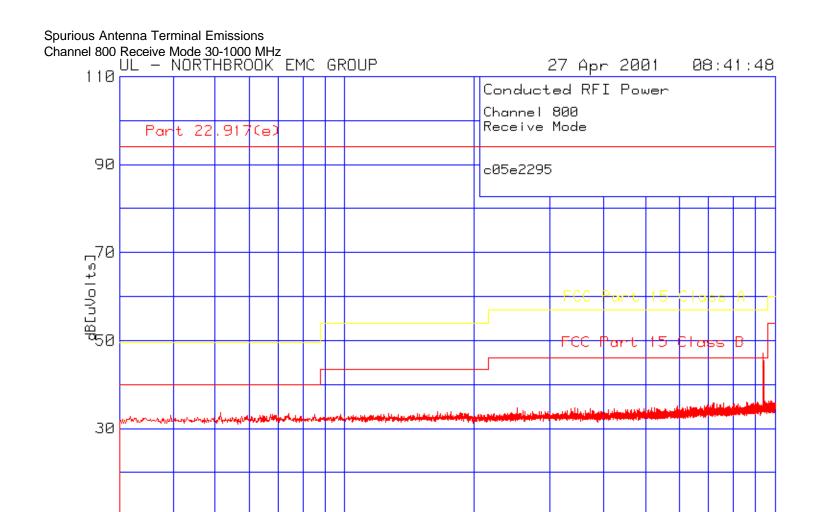




Frequency [MHz]

30

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1000

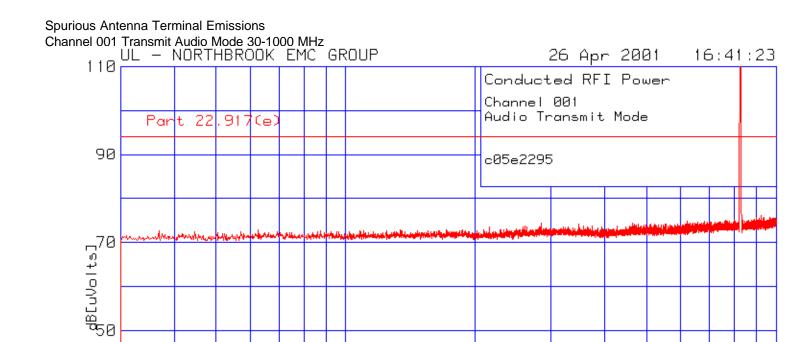
Frequency [MHz]

100

30

30

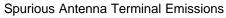
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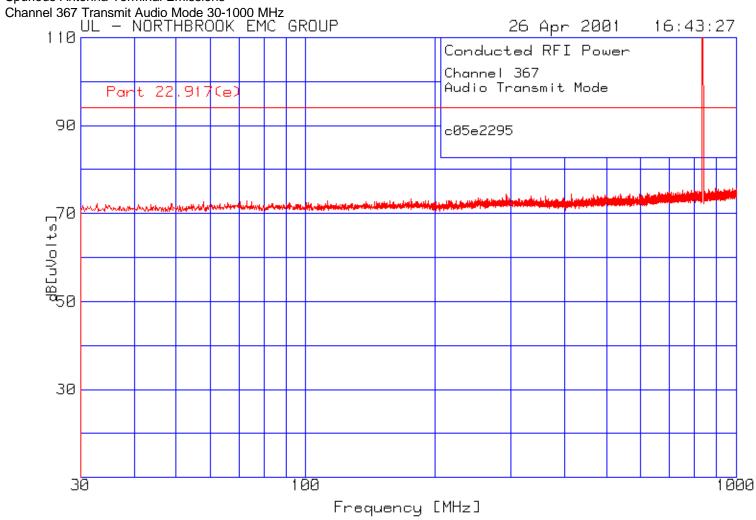


Frequency [MHz]

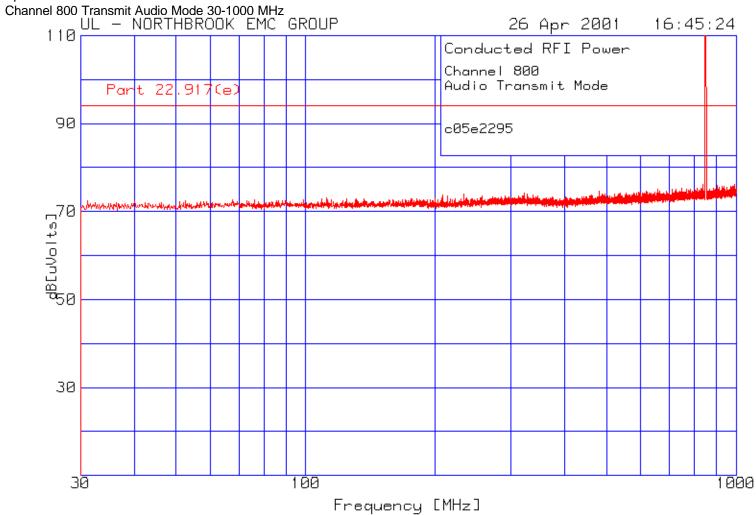
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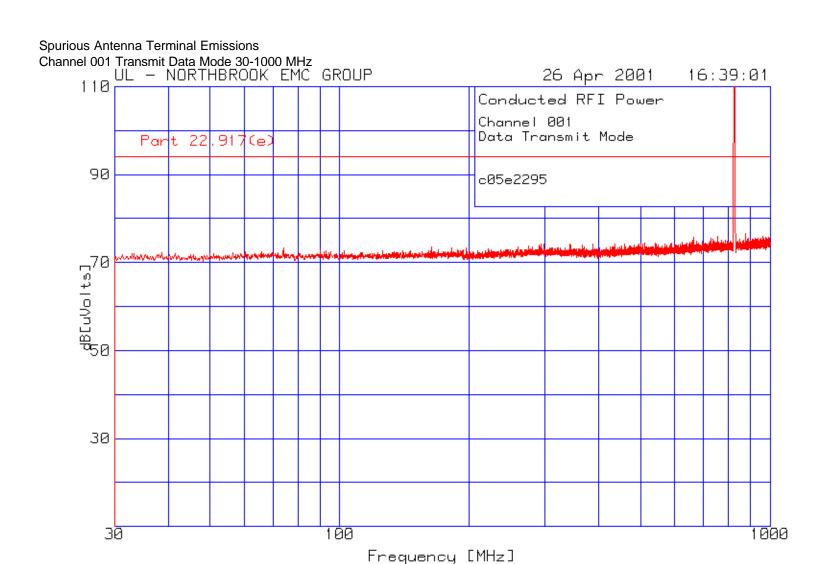
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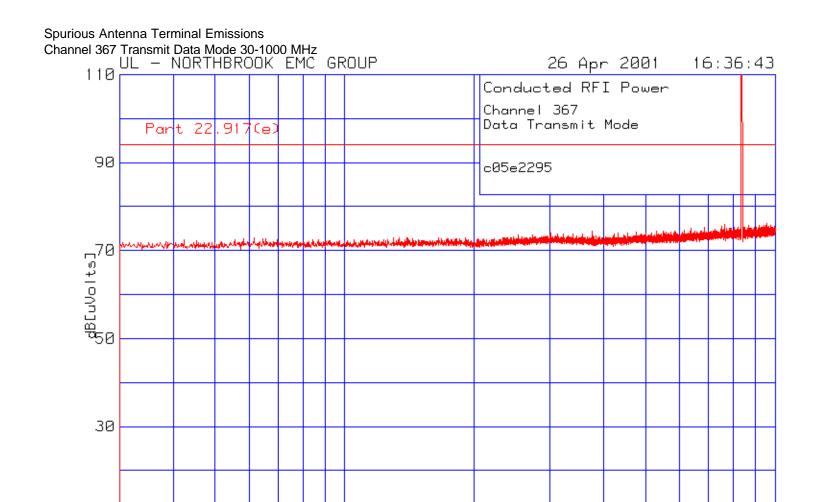






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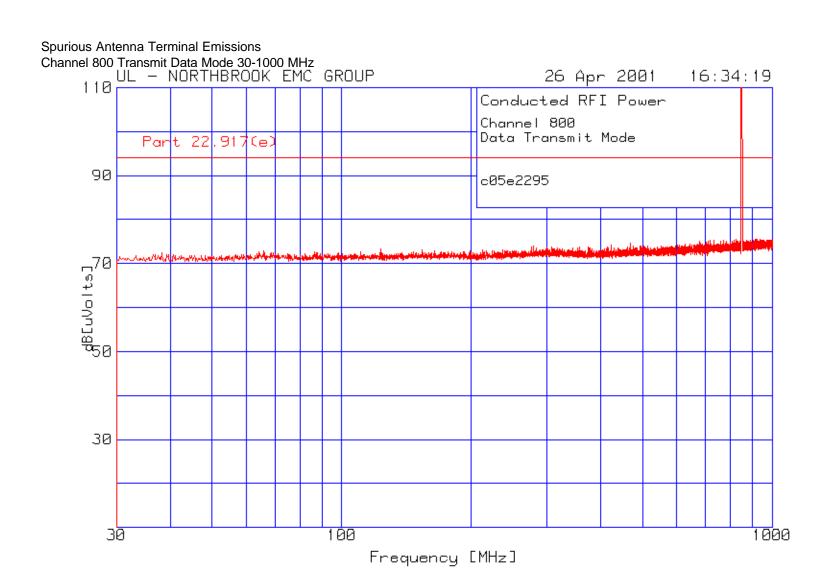
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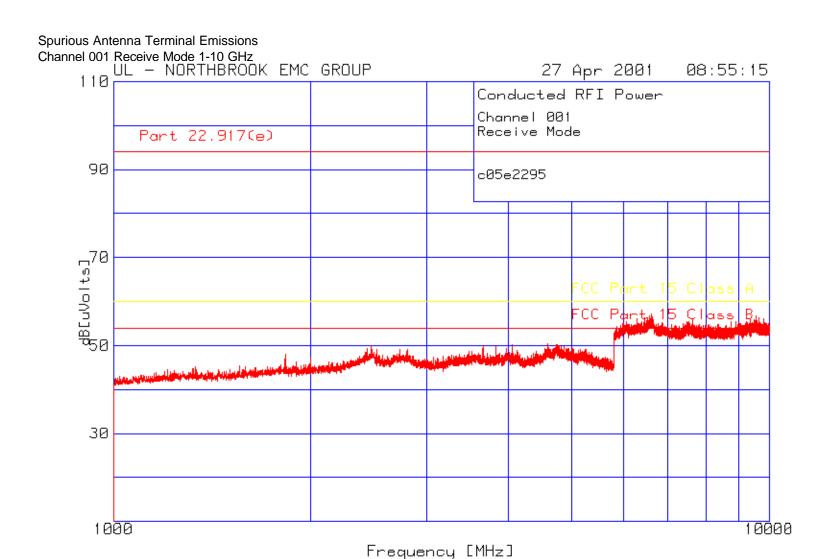


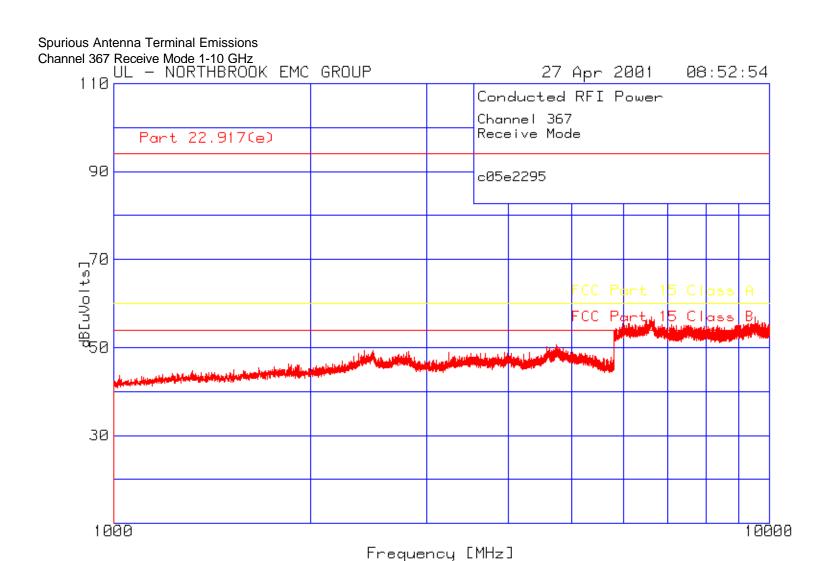
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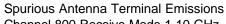
Frequency [MHz]

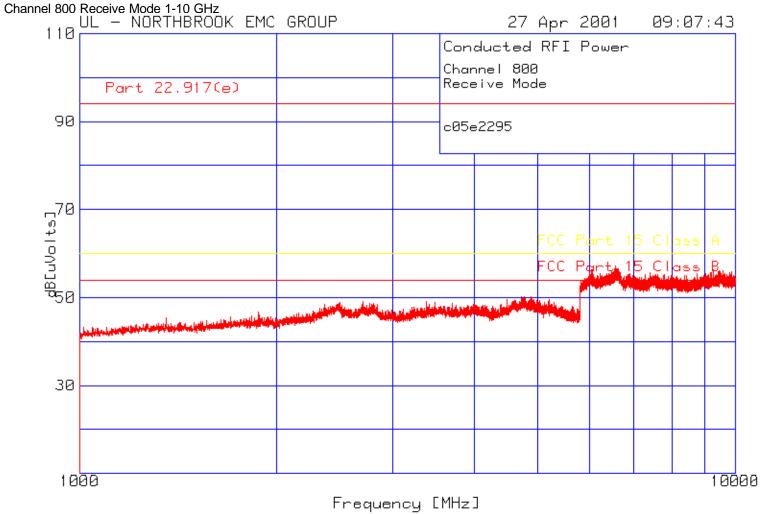
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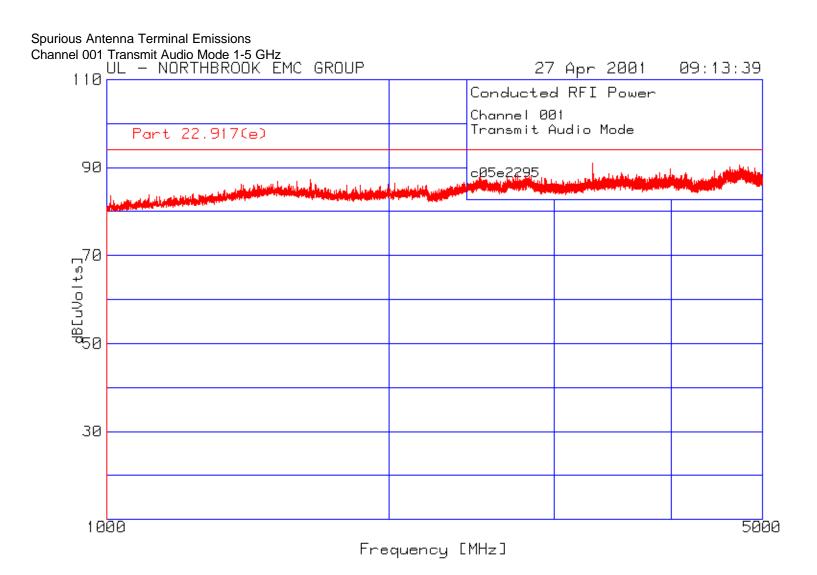


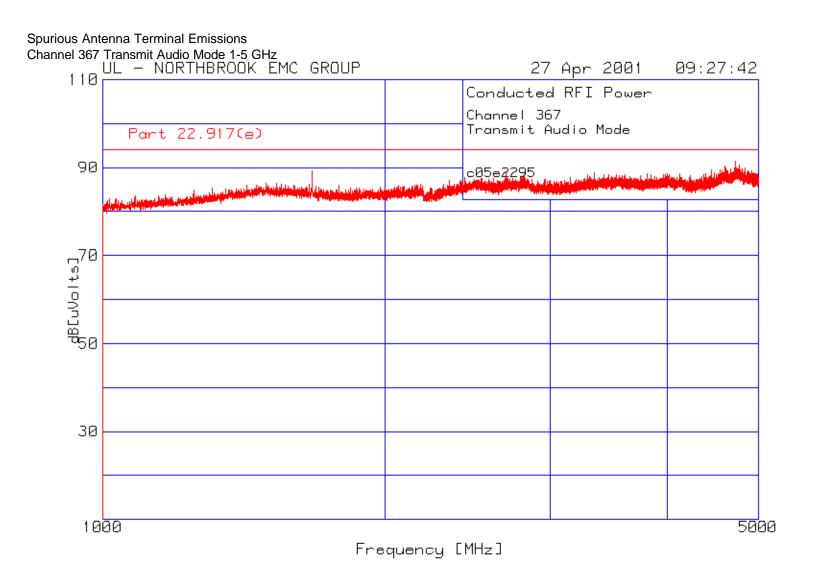


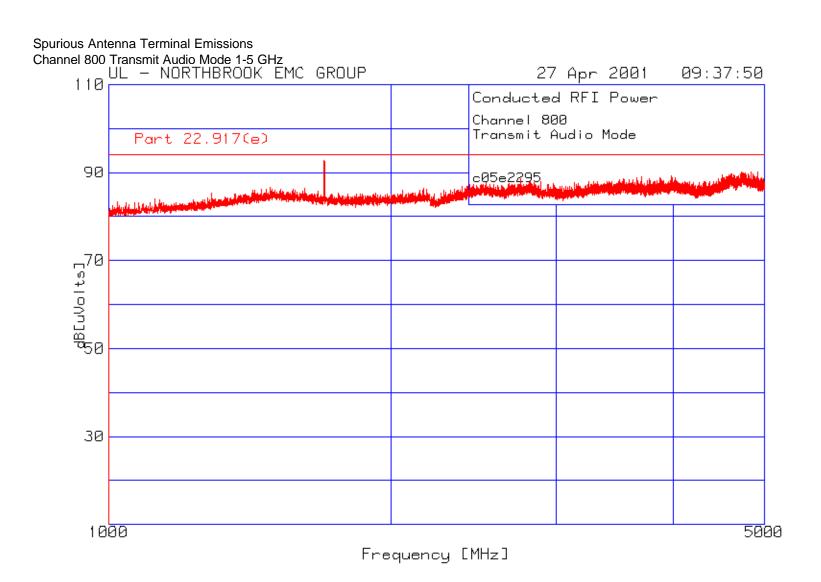


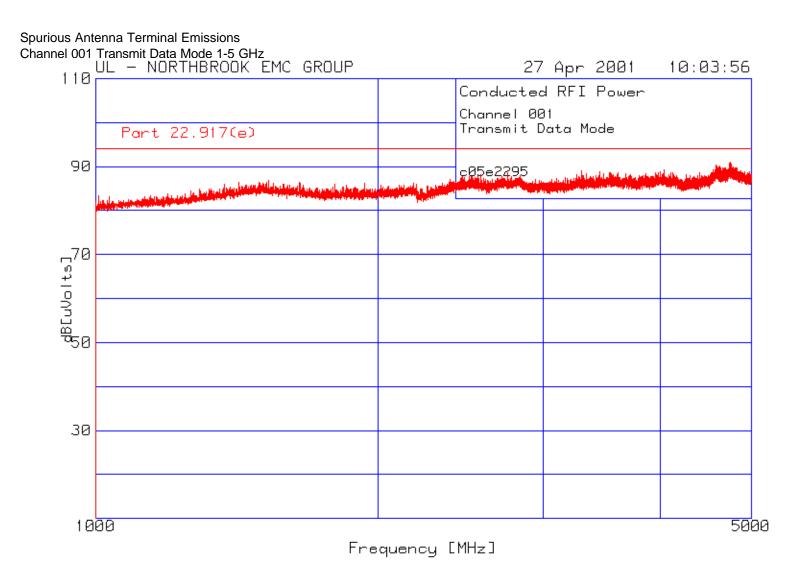


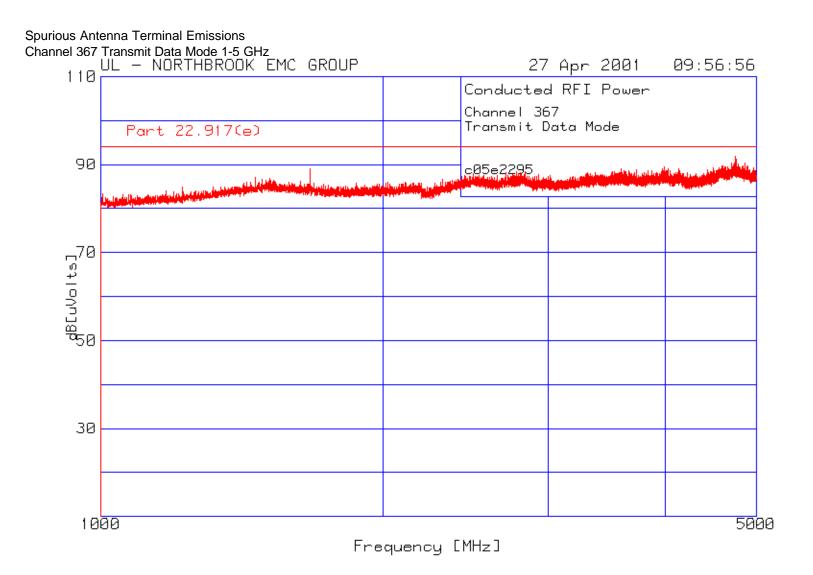


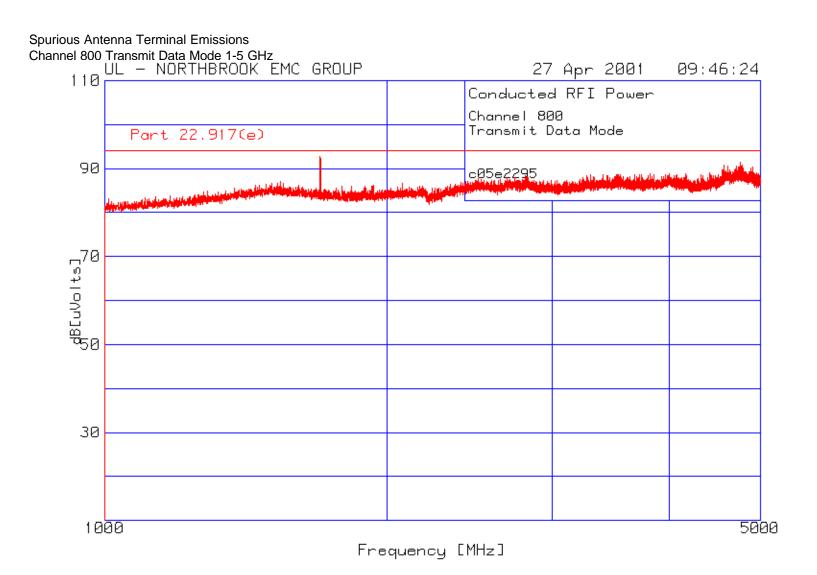


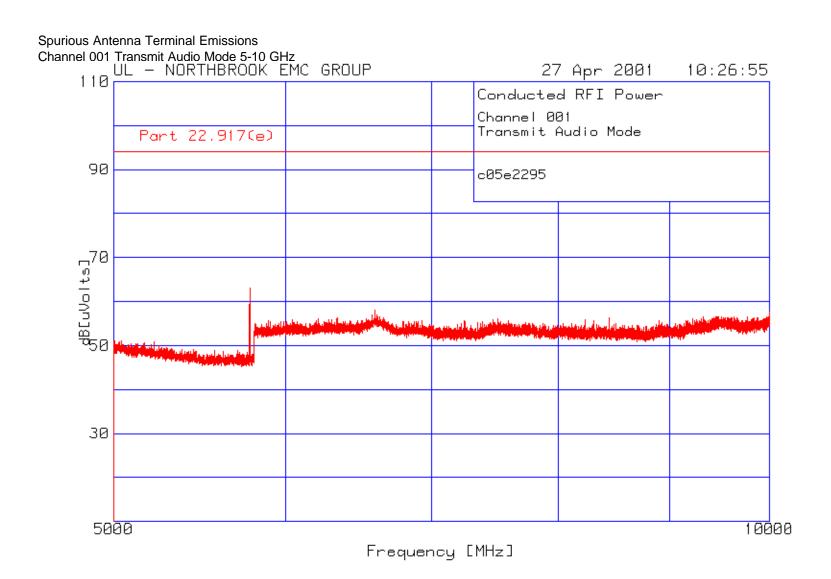


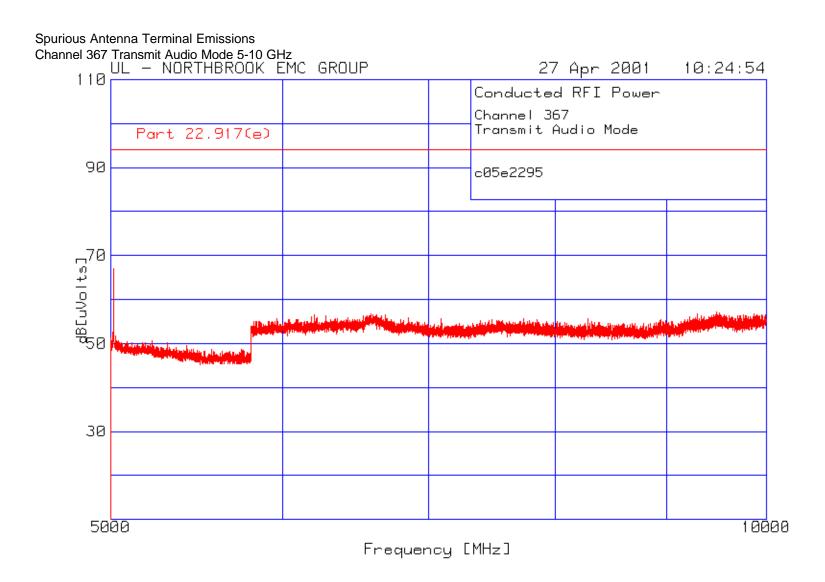


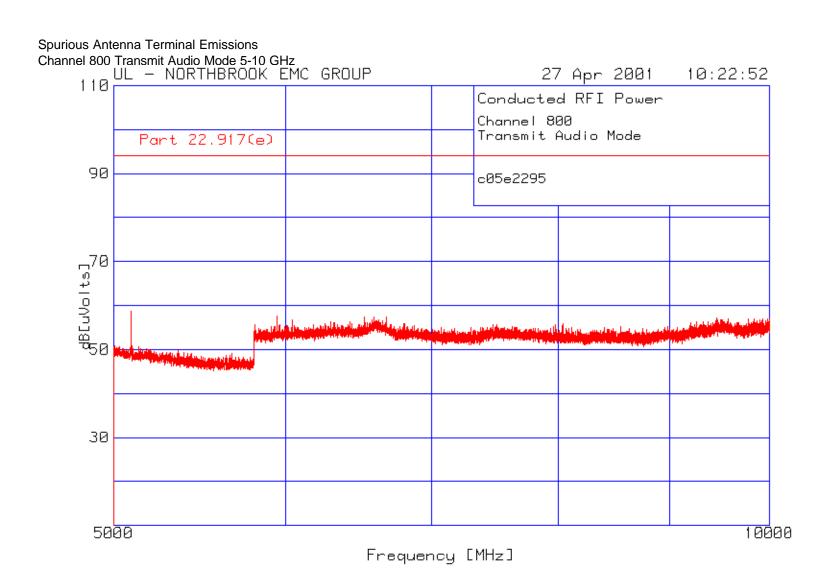


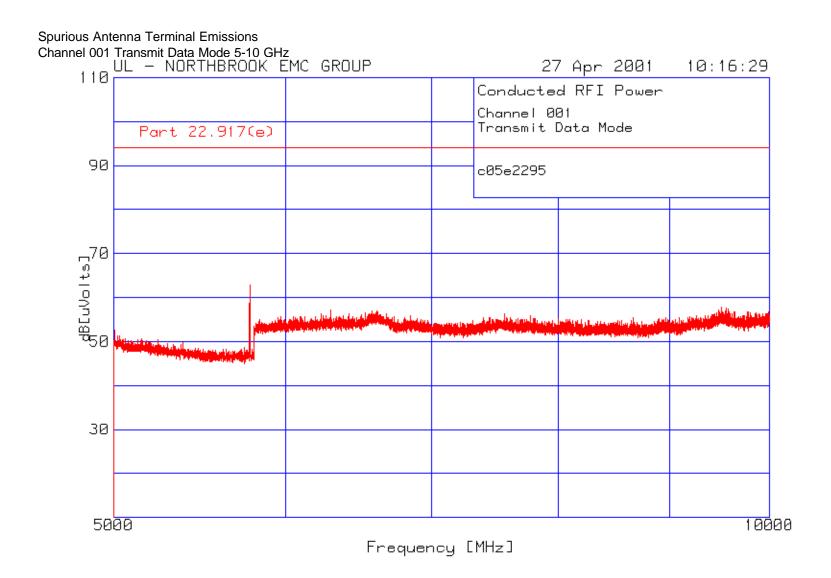


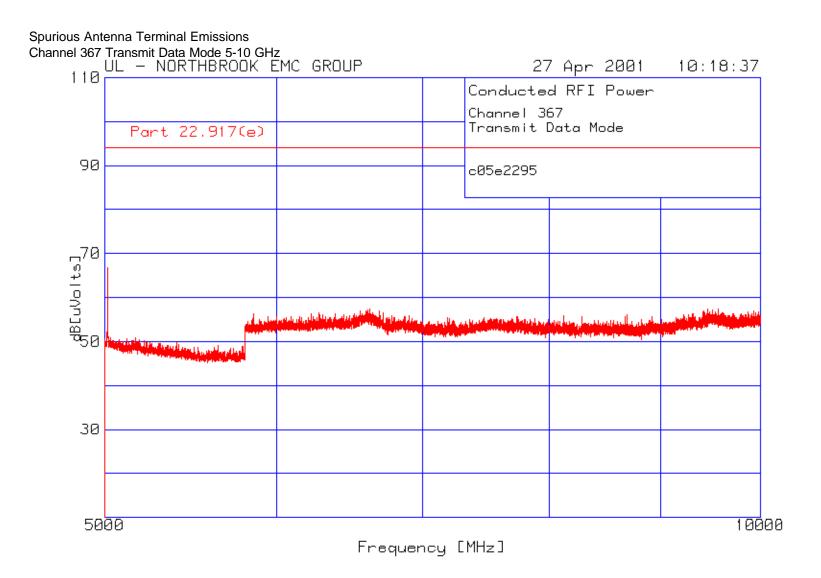


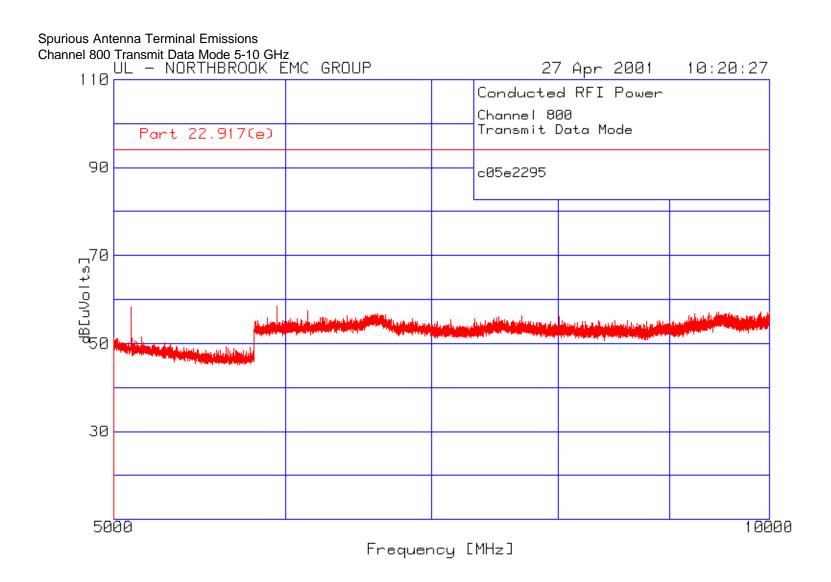








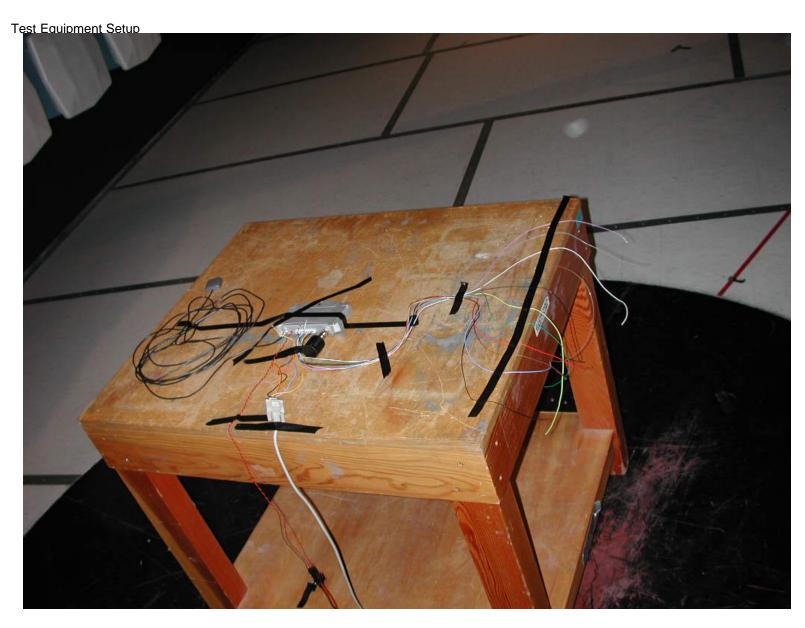




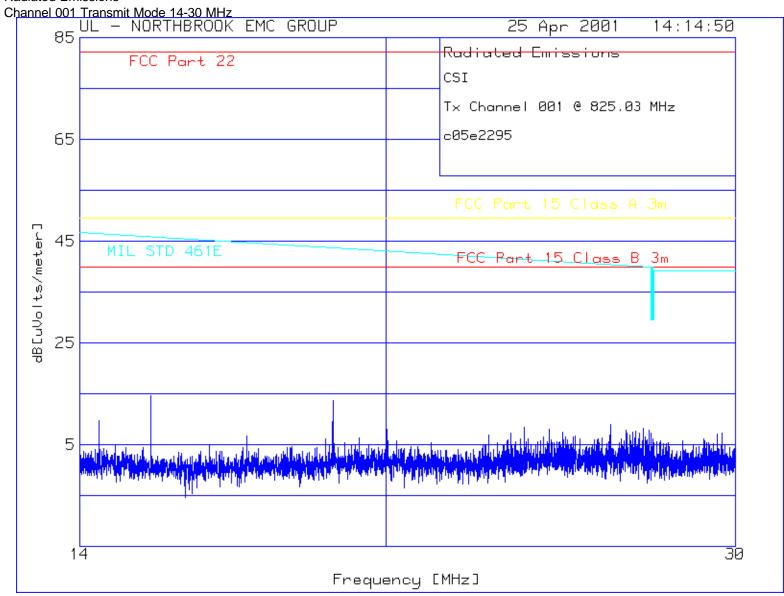
Test Sample: FCC Part 2 Subpart J Report No.: c05e2295-1 LoCate – NJILOCA01 rev. 2

4.4 RADIATED EMISSIONS

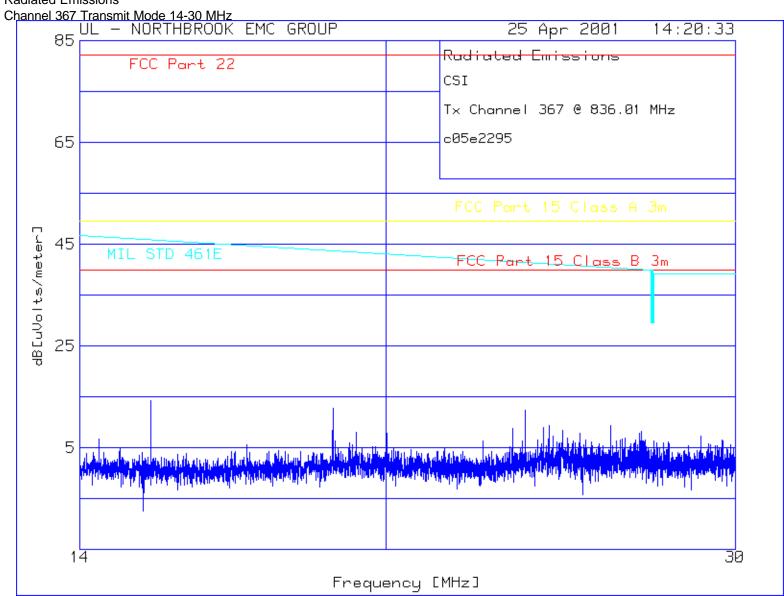
		T	1				
Test Lab: MPB Technol	ogies Inc. Airdrie	Product:					
Test Personnel: E. Hails	3	LoCate					
Test Date: 23-25 April, 2	2-3 May 2001						
	Test Result, L	oCate: PASS					
Objectives/Criteria		Specifications					
The field strength emiss		FCC Part 2.1053 and 2.	1057				
the limits for the specific		FCC Part 22.917(e)					
Emission levels should with a margin of 6dB.	meet the requirements	Frequency	Emission Level				
harmonic of the highest	ed frequency to the tenth internally	9 kHz to lower edge of $_{c}$ -13 dBm or 82.2 dB $_{\mu}$ V/m					
used/generated frequen (NB. f _c denotes carrier for		upper edge of f_c to the tenth harmonic of f_c -13 dBm or 82.2 dB μ V/m					
Comments		ching the limit were harmonics of the d so do not apply.					
Channel Frequency [MHz]		Emission Level [dBμV/m]	Delta [dB from limit]				
There were no spurious emissions measured to be within -20 dB of the specified limit. Refer to the test data plots for more details. Note that the test plots include MIL-STD 461E limits, but these are strictly for the purpose of comparing results. MIL-STD tests were not performed.							



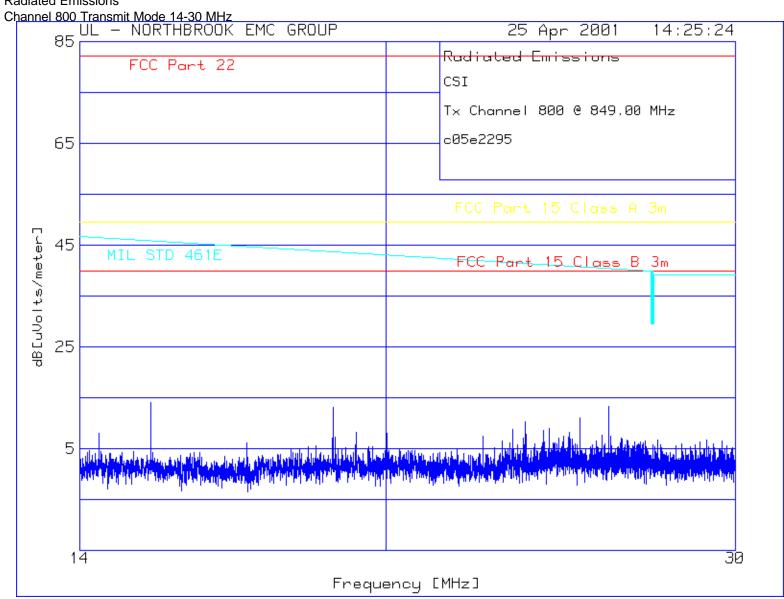


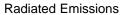


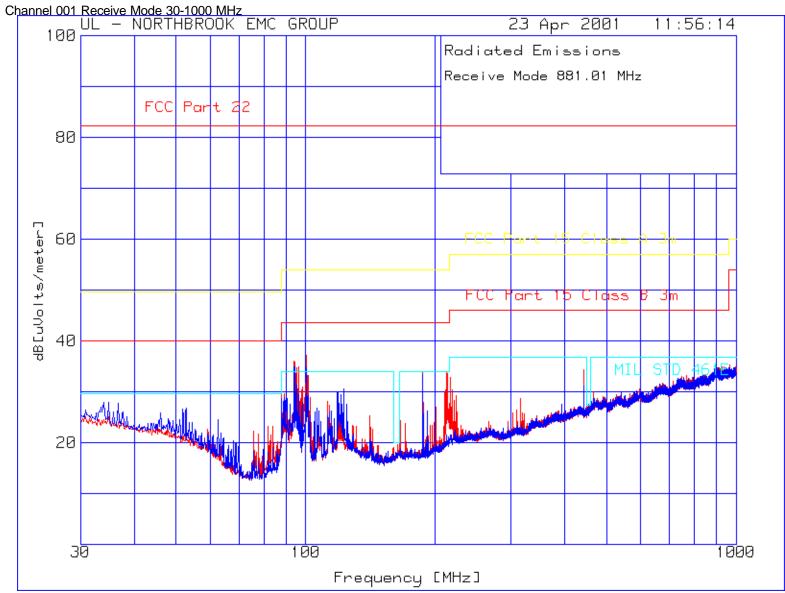


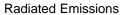


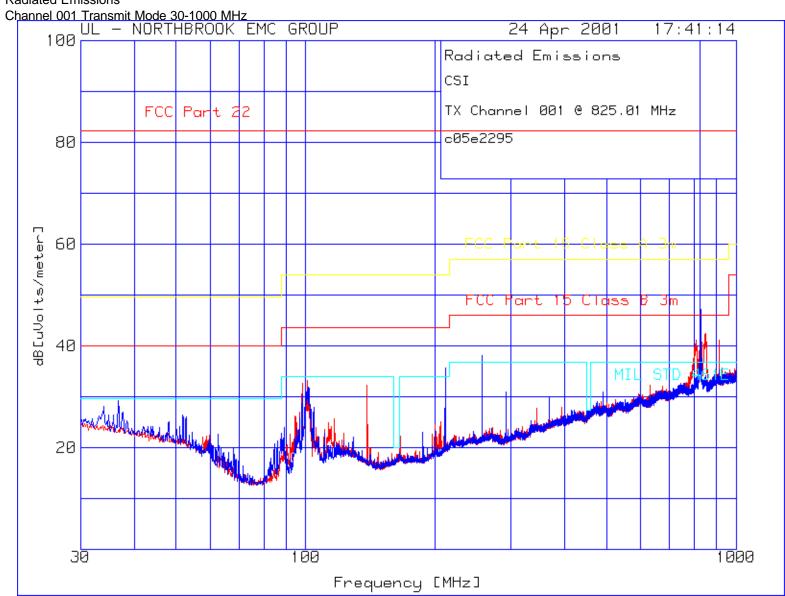




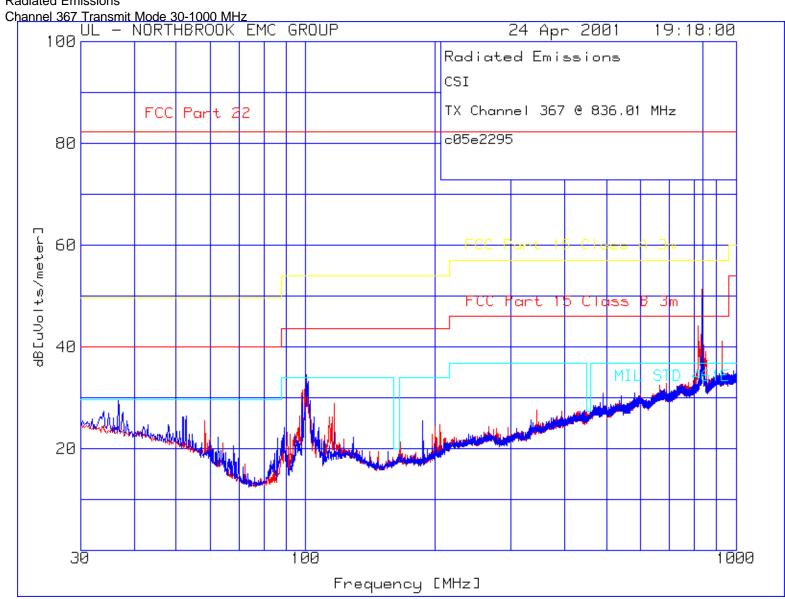


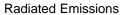


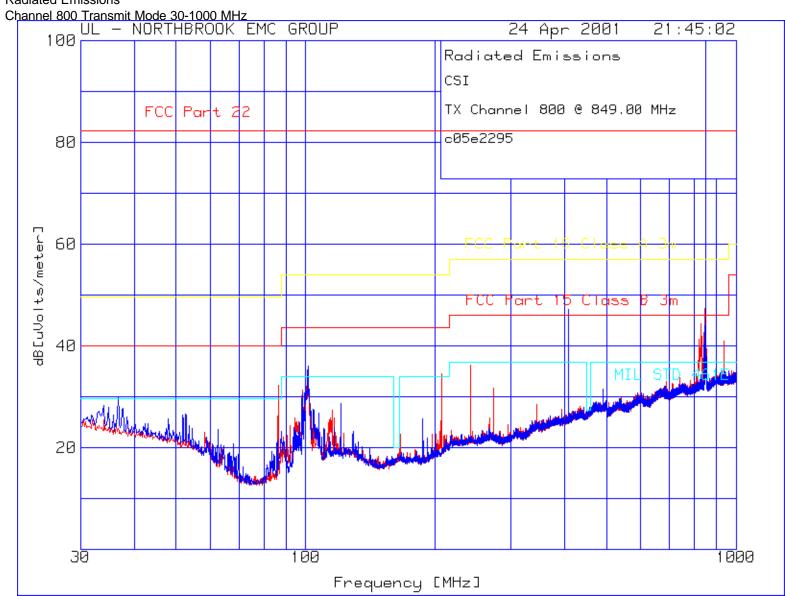




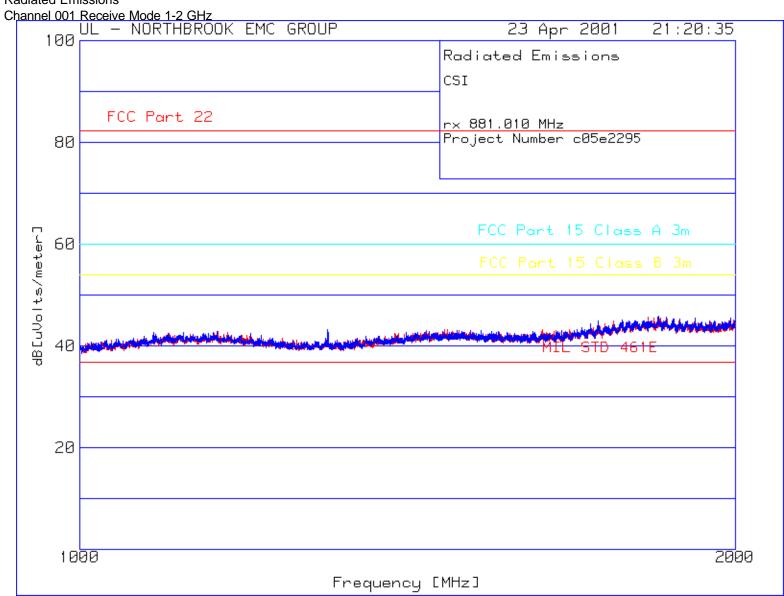




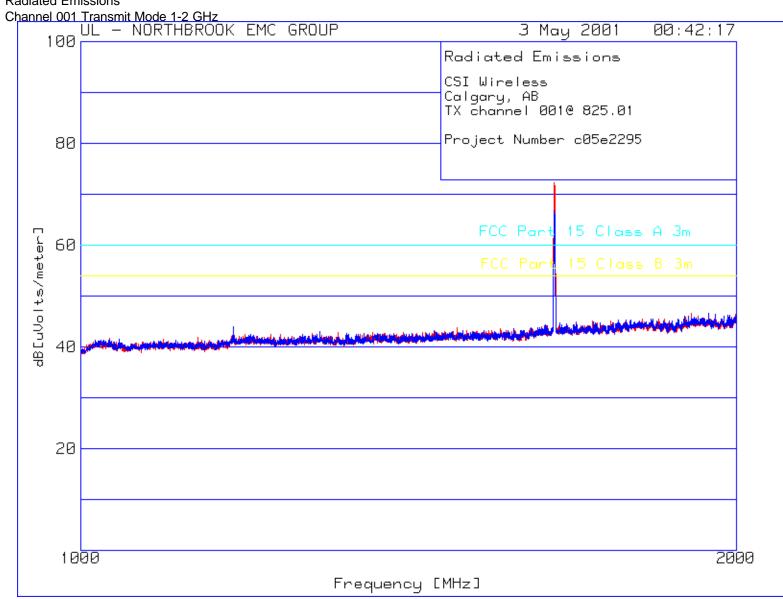




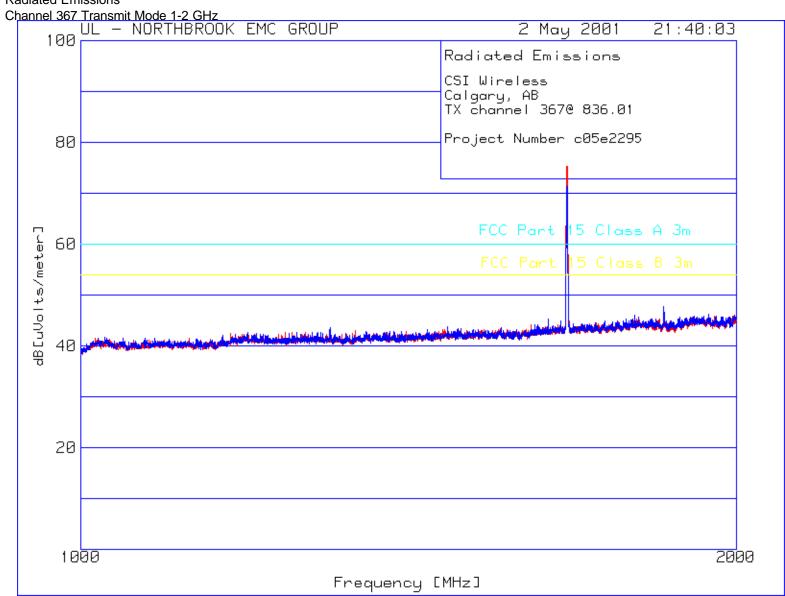




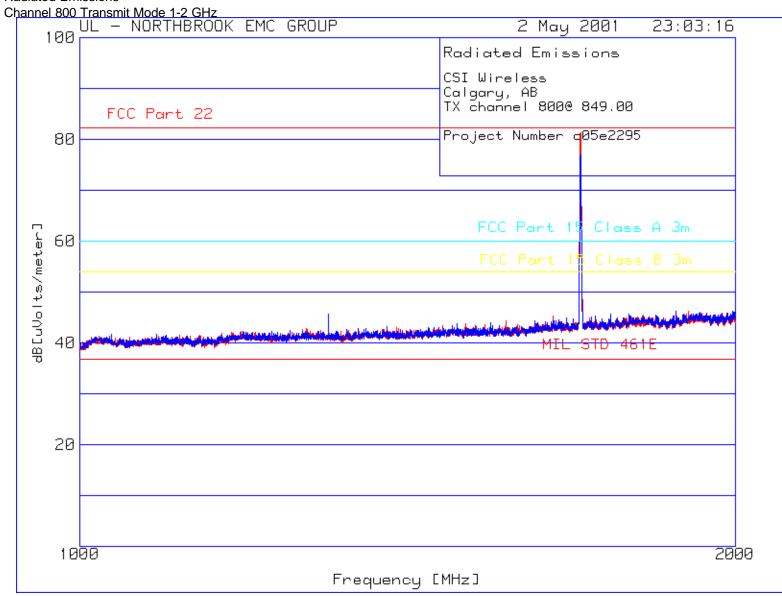




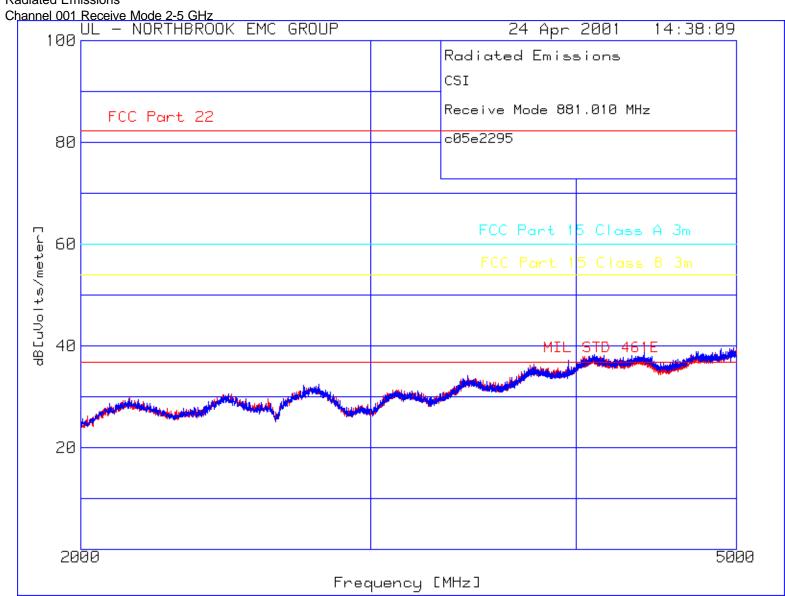




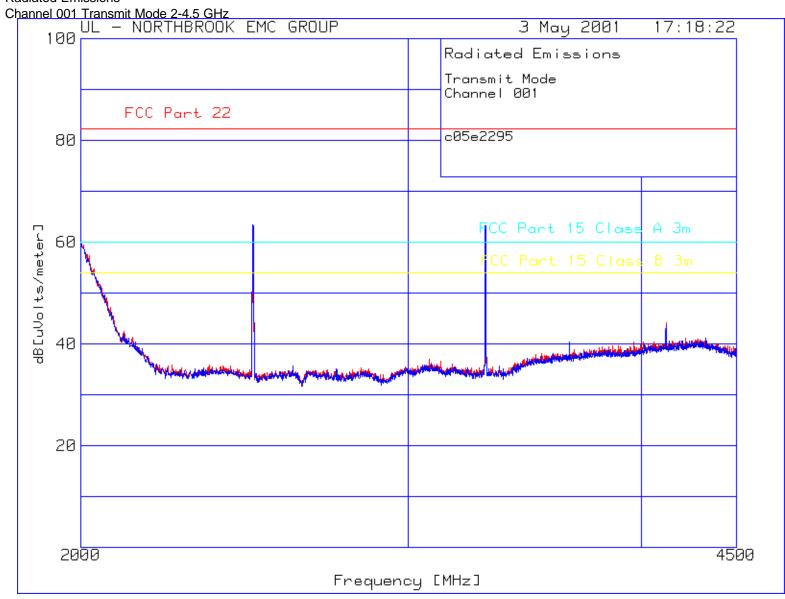




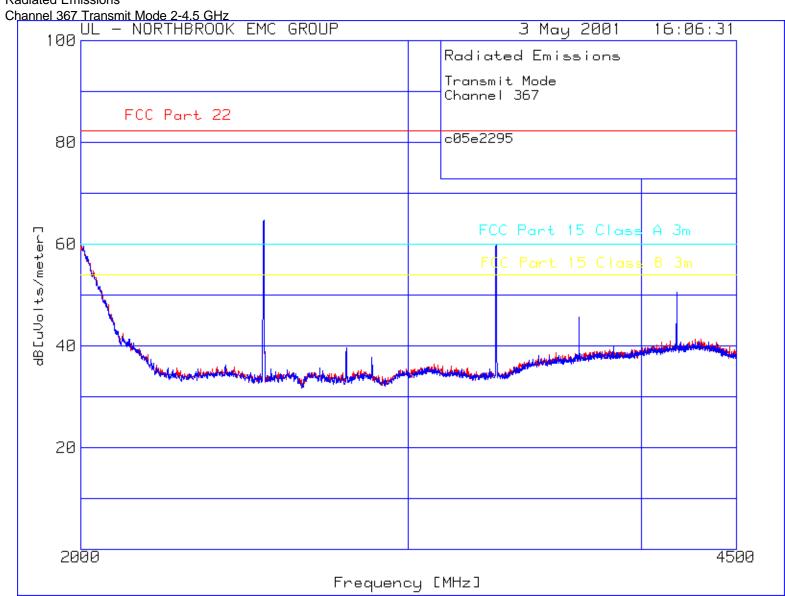




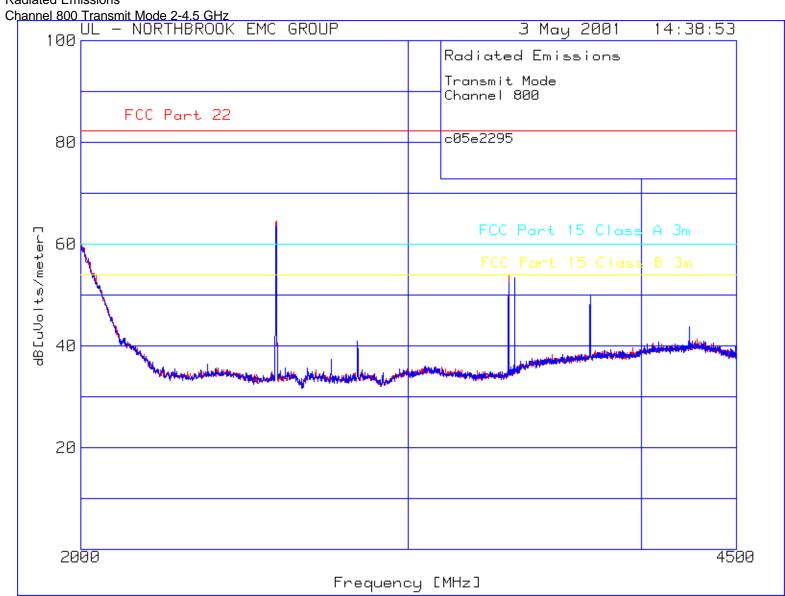




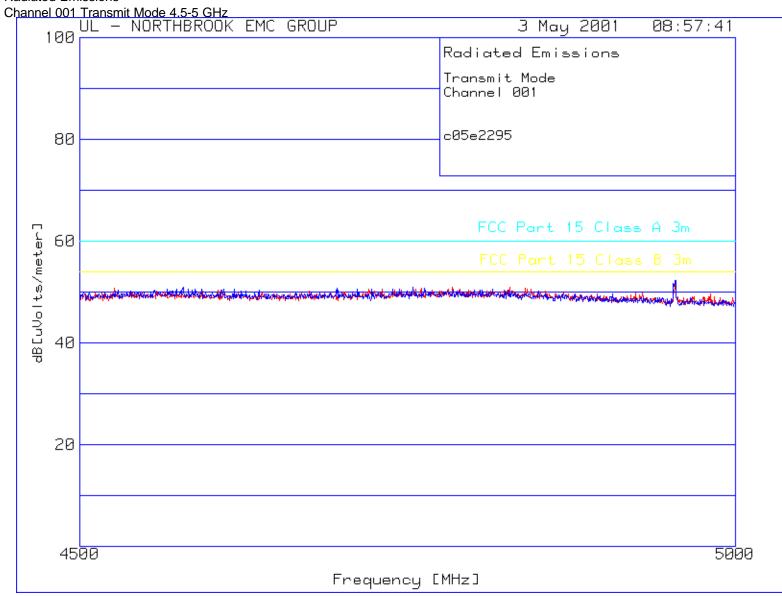




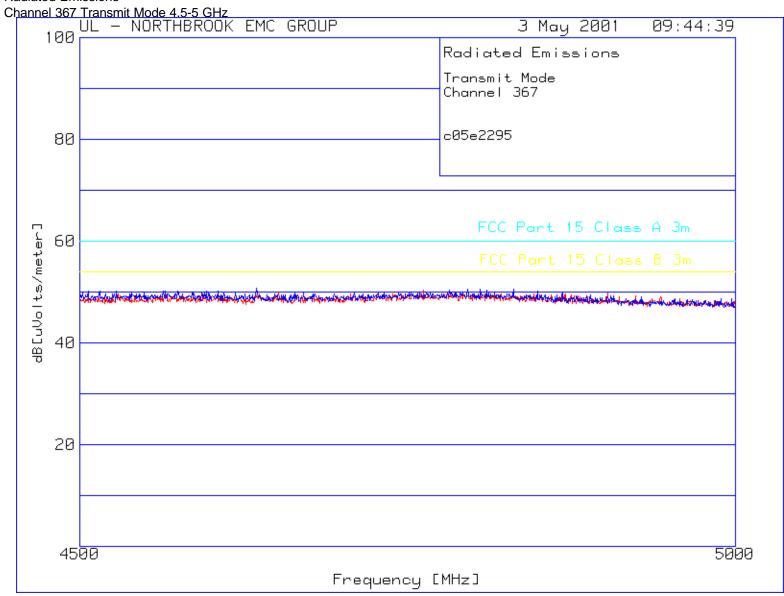




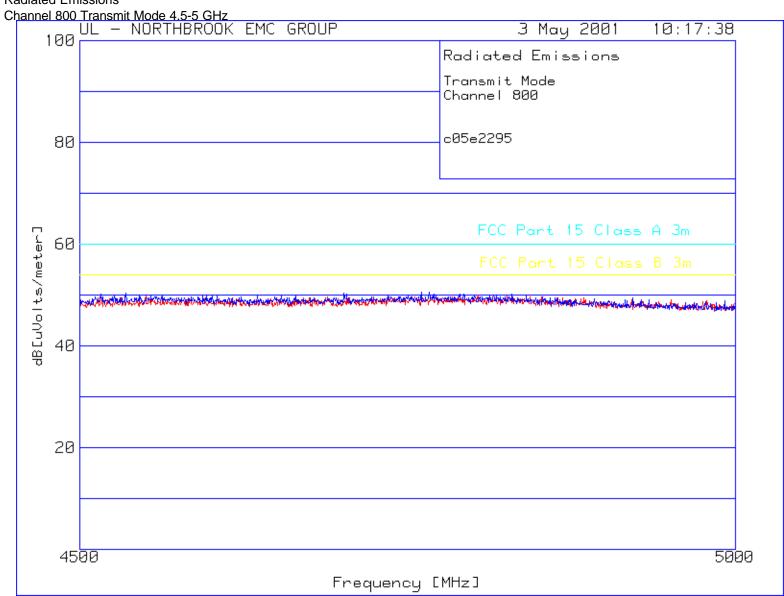




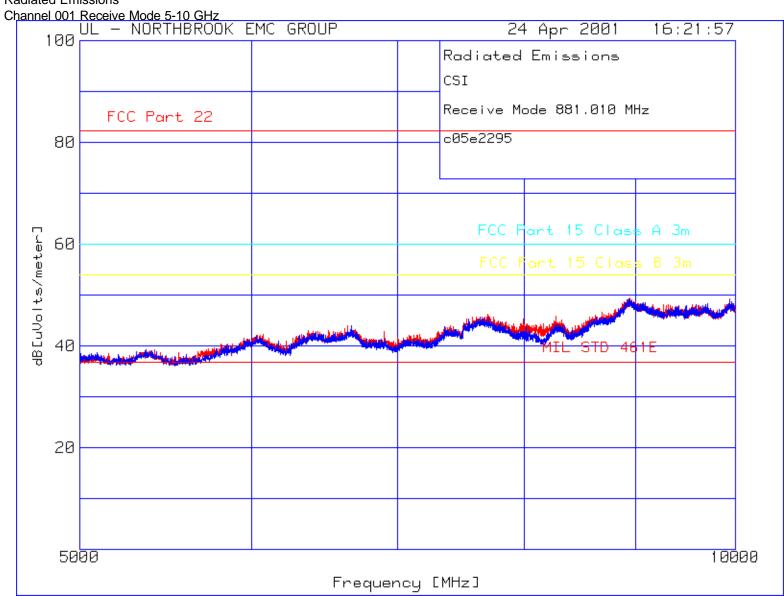




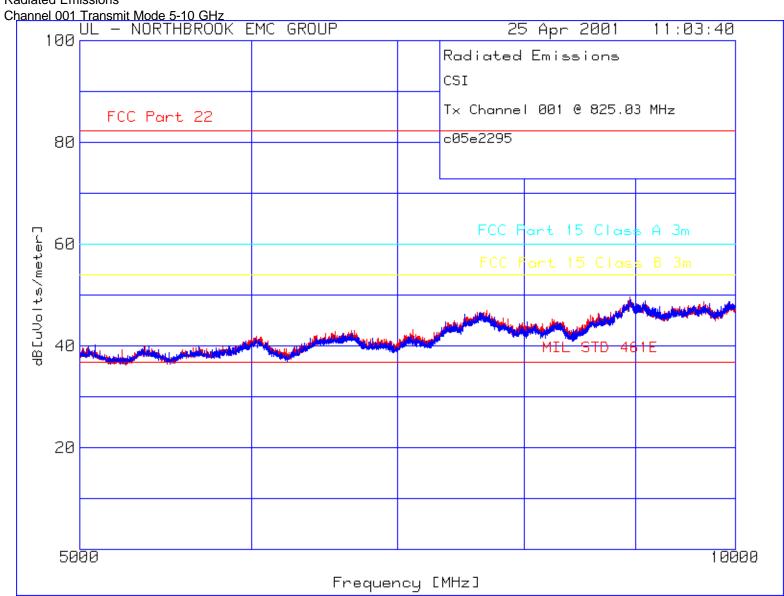




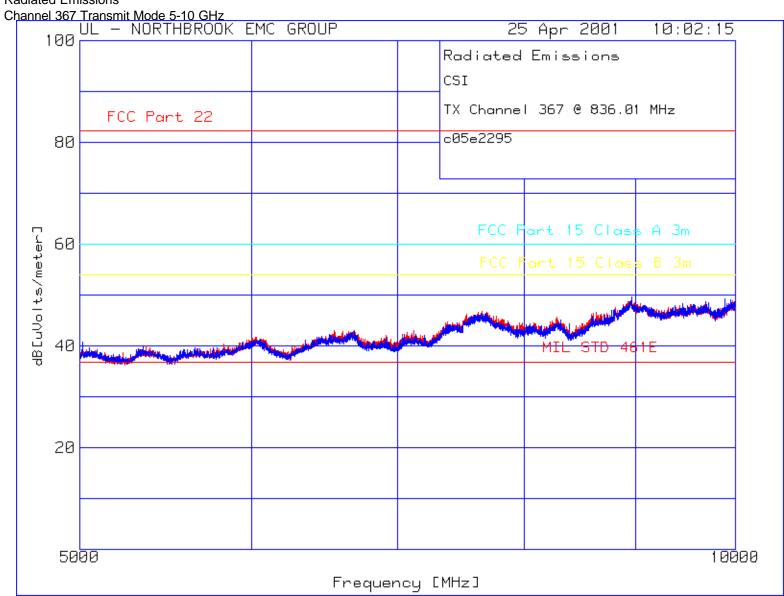




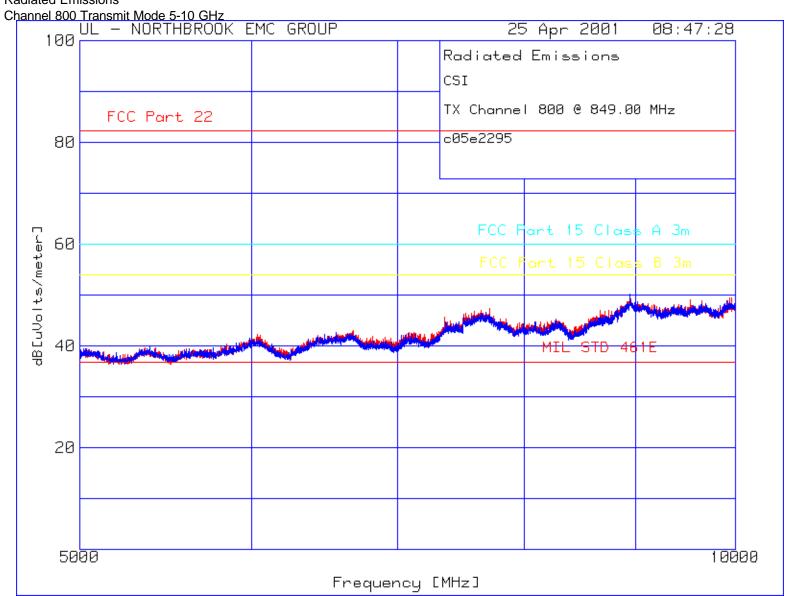




Radiated Emissions







Test Sample: FCC Part 2 Subpart J Report No.: c05e2295-1 LoCate – NJILOCA01 rev. 2

4.5 FREQUENCY STABILITY

Test Lab: MPB Technologies Inc. Airdrie	Product:				
Test Personnel: E. Hails	LoCate				
Test Date: 20 July 2001					
Test Result, L	oCate: PASS				
Objectives/Criteria	Specifications				
The frequency shall not deviate from the rated	FCC Part 2.1055				
frequency by more the specified amount under the following conditions:	FCC Part 22.355				
At the rated voltage, vary the temperature from	Allowed deviation from the rated frequency:				
-30°C to +50°C in 10°C increments and measure the transmit frequency.	± 2.5 ppm				
At room temperature, change the voltage to 85% and 115% of the rated voltage, and measure the transmit frequency. Also measure at the battery end point.					

Comments: The frequency as a function of voltage was measured when the temperature was still at 50°C, in order to save time. The data are a measure of a worst-case scenario. The voltage was also reduced decrementally until it reached the battery end point, and the frequency was not significantly altered. See the next page for the test data.

FREQUENCY STABILITY TEST DATA

DEPENDENCE OF FREQUENCY ON TEMPERATURE

	Channel 001	Frequency 8	25.030 MHz	Channel 367 Frequency 836.010 MHz			Channel 800 Frequency 849.000 MHz			
Temperature	Measured	Difference		Measured	Difference		Measured	easured Difference		
[degrees C]	[Hz]	[Hz]	[ppm]	[Hz]	[Hz]	[ppm]	[Hz]	[Hz]	[ppm]	
-30	825029550	-450	-0.55	836009618	-382	-0.46	848999508	-492	-0.58	
-20	825029548	-452	-0.55	836009492	-508	-0.61	848999492	-508	-0.60	
-10	825029428	-572	-0.69	836009370	-630	-0.75	848999310	-690	-0.81	
0	825029488	-512	-0.62	836009418	-582	-0.70	848999512	-488	-0.57	
10	825030038	38	0.05	836009958	-42	-0.05	848999994	-6	-0.01	
20	825030090	90	0.11	836010004	4	0.00	849000044	44	0.05	
30	825029954	-46	-0.06	836010000	0	0.00	848999872	-128	-0.15	
40	825029950	-50	-0.06	836009832	-168	-0.20	848999818	-182	-0.21	
50	825029852	-148	-0.18	836009868	-132	-0.16	848999812	-188	-0.22	

DEPENDENCE OF FREQUENCY ON INPUT VOLTAGE

	Channel 001	- 825.030 N	1Hz		Channel 367 - 836.010 MHz			Channel 800 - 849.000 MHz						
Inpu	ıt Voltage	Measured	Diff	erence	Input Voltage Measured Difference		Input Voltage Measured		Difference					
[VDC]	[% nominal]	[Hz]	[Hz]	[ppm]	[VDC]	[% nominal]	[Hz]	[Hz]	[ppm]	[VDC]	[% nominal]	[Hz]	[Hz]	[ppm]
12.28	100	825029934	-66	-0.08	12.28	100	836009878	-122	-0.15	12.27	100	848999874	-126	-0.15
14.18	115	825029936	-64	-0.08	14.15	115	836009884	-116	-0.14	14.49	118	848999884	-116	-0.14
10.41	85	825029946	-54	-0.07	10.42	85	836009864	-136	-0.16	10.43	85	848999930	-70	-0.08
8.00	65	825029942	-58	-0.07	8.00	65	836009856	-144	-0.17	8.00	65	848999864	-136	-0.16
5.97	49	825029958	-42	-0.05	6.07	49	836009928	-72	-0.09	6.07	49	848999942	-58	-0.07

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4.6 MODULATION CHARACTERISTICS

Test Lab: MPB Technologies Inc. Airdrie	Product:				
Test Personnel: E. Hails	LoCate				
Test Date: 20 July 2001					
Test Result, L	oCate: PASS				
Objectives/Criteria	Specifications				
The equipment shall meet the modulation	FCC Part 2.1047				
requirements in these aspects:	FCC Part 22.915				
(a) Non-voice modulating signals	See Part 22.915 for details.				
(b) Modulation levels					
(c) Deviation limitation circuitry					
(d) Audio filter characteristics					
(a) Non-voice modulating signals	PASS				
(b) Modulation levels	PASS 11.6 kHz				
(c) Deviation limitation circuitry	PASS				
(d) Audio filter characteristics	PASS				

5.0 TEST FACILITY

5.1 LOCATION

The EUT was tested for Electromagnetic Compatibility at the Electronics Test Centre, located in Airdrie, Alberta, Canada.

The RF Anechoic Chamber (RFAC) is identified as Chamber 1, located in the main building complex at the Electronics Test Centre. Its usable working space measures 10.6 m long x 7.3 m wide x 6.5 m high.

This test site is listed with the FCC under Registration Number 99541. Measurements taken at this site are accepted by Industry Canada per file number IC 2046-1.

The floor, walls and ceiling consist of annealed steel panels. The walls and ceiling are covered with ferrite tile, augmented by RF absorbant foam material on the end wall nearest the turntable, and on the adjacent walls and the ceiling. The chamber floor supports a 15 cm high internal floor, constructed of annealed steel panels, that forms the ground plane, and is bonded to the chamber walls.

The 3-m diameter turntable is flush-mounted with the floor. A sub-floor cable-way is provided to route cables between the turntable pit and EUT support equipment. Cables reach the EUT through an opening in the centre of the turntable.

Test instrumentation and EUT support equipment is located in two shielded vestibules located at the side of the main room. Cables are routed through bulkhead panels between the rooms as required. Power feeds are routed into the main room and vestibules through line filters providing at least 100 dB of attenuation between 10 kHz and 10 GHz.

5.2 GROUNDING PLAN

The EUT was located on a wooden table 80 cm above the ground plane. The EUT was grounded according to the client's specifications.

5.3 Power

AC power was supplied via an Underwriter's Laboratories ULW100-69, 100 dB, 100 Ampere wall mounted filter. Bonding to ground is implemented at the chamber wall.

5.4 EMISSIONS PROFILE

Ambient conducted and radiated electromagnetic emission profiles were generated throughout the tests and are included in the test data.

5.5 TEST CONFIGURATION

5.5.1 RF OUTPUT POWER

Figure 1 illustrates the configuration of the test and measurement equipment used for RF Output Power (FCC Part 2.1046).



Figure 1 - Measurement Setup for RF Output Power

5.5.2 OCCUPIED BANDWIDTH AND SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Figure 2 illustrates the configuration of the test and measurement equipment used for Occupied Bandwidth and Spurious Emissions at Antenna Terminals (FCC Part 2.1049, 2.1051 and 2.1057).



Figure 2 - Measurement Setup for Occupied Bandwidth and Spurious Emissions at Antenna Terminals

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5.5.3 Radiated Emissions

Figure 3 illustrates the configuration of the test and measurement equipment used for Radiated Emissions (FCC Part 2.1053 and 2.1057) for *Rack-Mounted* equipment.

Radiated Emissions

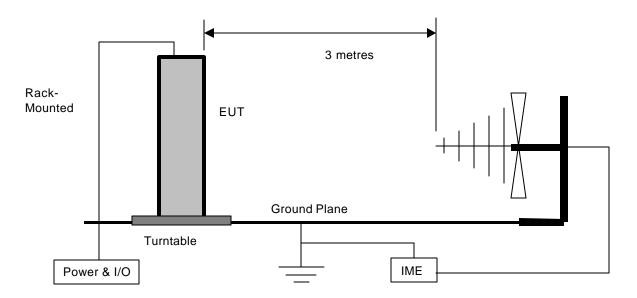


Figure 3 - Radiated Emissions for Rack-Mounted Equipment

Figure 4 illustrates the configuration of the test and measurement equipment used for Radiated Emissions (FCC Part 2.1053 and 2.1057) for *Tabletop* equipment.

Radiated Emissions

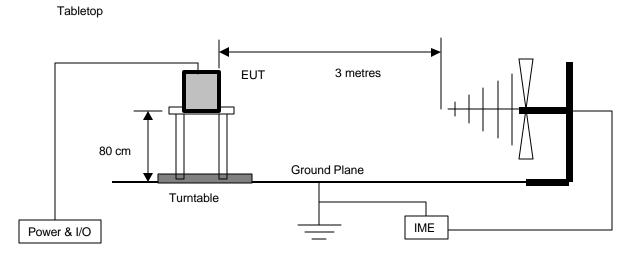


Figure 4 - Radiated Emissions for Tabletop Equipment
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MPB Technologies Inc.

Test Sample: LoCate – NJILOCA01

6.0 TEST EQUIPMENT

The following equipment was used for this procedure. All measurement devices are calibrated annually, traceable to NIST.

6.1 EQUIPMENT USED

The following equipment was used for this procedure. All measurement devices are calibrated annually, traceable to NIST.

RF Output Power:

Power Meter

Occupied Bandwidth and Spurious Emissions at Antenna Terminals

- Spectrum Analyzer with RF Preselector
- CISPR Quasi-Peak Adapter
- Personal Computer and EMC Software

Radiated Emissions

- Spectrum Analyzer with RF Preselector
- CISPR Quasi-Peak Adapter
- Power Isolation Transformers
- Biconilog Antenna (25 MHz to 2 GHz)
- Antenna Mast Positioner and Controller
- Flush-mounted Turntable and Controller
- Personal Computer and EMC Software

Frequency Stability

- Spectrum Analyzer with RF Preselector
- CISPR Quasi-Peak Adapter
- Personal Computer and EMC Software
- Environmental Chamber

Modulation Characteristics

- Spectrum Analyzer with RF Preselector
- CISPR Quasi-Peak Adapter
- Personal Computer and EMC Software
- RF Communications Test Set

6.2 CALIBRATION

All measurement instrumentation conforms to ANSI C63.2. Calibration is maintained in accordance with manufacturer recommendations and ISO Guide 25. Each measurement device is labeled with its ETC asset number and calibration due date.

6.2.1 CALIBRATION ACCURACY

Test equipment used to provide quantitative measurements are calibrated with standards traceable to the National Research Council, National Institute of Standards and Technology or other national standards. Instrumentation systems for emissions measurements have the following accuracies:

Frequency = $\pm 1 \text{ kHz}$ Amplitude (RE) = $\pm 4.01 \text{ dB}$ Amplitude (CE) = $\pm 3.25 \text{ dB}$ Report No.: c05e2295-1

rev. 2

6.2.2 TEST EQUIPMENT DESCRIPTION

The equipment used in the tests was selected from the following list.

Instrument	Manufacturer	Model No.	Asset No.	Calibration Due
Spectrum Analyzer	Hewlett Packard	8566B	9565	11 April 2002
Spectrum Analyzer	Hewlett Packard	8566B	9168	30 January 2002
RF Preselector	Hewlett Packard	85685A	9563	21 September 2001
RF Preselector	Hewlett Packard	85685A	9728	30 March 2002
Quasi-Peak Adapter	Hewlett Packard	85650A	9243	16 August 2001
Line Impedance Stabilization Network	EMCO	3825/2r	9331	2 November 2001
Line Impedance Stabilization Network	EMCO	3825/2r	9259	2 November 2001
Biconilog Antenna	ARA	Lpb-2520/A	4318	13 June 2002
Dual Ridged Guide Antenna	EMCO	3115	9588	6 August 2001
Low Noise Amplifier	MITEQ	JS43-01001800-21- 5P	4354	14 February 2002
Power Meter	Hewlett Packard	436A	9061	3 August 2001
Power Sensor	Hewlett Packard	8482A	9758	3 August 2001
Environmental Chamber	Thermotron	8920B	9166	12 October 2001
RF Communications Test Set	Hewlett Packard	8920B	N/A	24 November 2001

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Appendix A

LoCate

Test Sample Description

(from data provided by CSI Wireless)

Product Category	
Telecommunications ✓	Aerospace o
Information Technology o	Test & Measurement o
Surface Transportation o	Other o
LoCate	
LOCA01	
Rev 01 S/N 4	
12 VDC 1 A	
vehicle-mounted, asset tracking	
chassis connected to ground	
2.5 MHz, 14-88 MHz, 132 MHz, Trans 914-939 MHz (L.O.), GPS Receive: 15	smit: 824-849 MHz, Receive: 869-894 MHz, 570 ± 10 MHz
Laptop computer, RS232 to CMOS lev	vel converter
Power supply, Data input/output, Cellu	ular Antenna, GPS antenna
GPS Receiver, Cellular Digital modem and asset status.	n, I/O interface to vehicle for asset tracking
	Information Technology o Surface Transportation o LoCate LOCA01 Rev 01 S/N 4 12 VDC 1 A vehicle-mounted, asset tracking chassis connected to ground 2.5 MHz, 14-88 MHz, 132 MHz, Trans 914-939 MHz (L.O.), GPS Receive: 18 Laptop computer, RS232 to CMOS levent supply, Data input/output, Cellin GPS Receiver, Cellular Digital modern