



Test Report: 6W75071.1

Applicant: VTech Telecommunications Canada Ltd.
200-7671 Alderbridge Way
Richmond, BC
V6X 1Z9

Apparatus: AT&T EP5632 Base

FCC ID: EW780-6101-00

In Accordance With: FCC Part 15 Subpart B, 15.107 and 15.109
Unintentional Radiators
And
FCC Part 15 Subpart C, 15.247
FHSS System and Digitally Modulated Radiators
902-928MHz, 2400 - 2483.5 MHz, 5725-5850MHz

Tested By: Nemko Canada Inc.
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Ottawa, Ontario
K1V 1H2

Authorized By: 
Roman Kuleba, EMC\Wireless Specialist

Date: March 2, 2007

Total Number of Pages: 56

Report Summary

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, Subpart B and C. Radiated tests were conducted in accordance with ANSI C63.4-2003. Radiated emissions are made on an open area test site. A description of the test facility is on file with the FCC.

The assessment summary is as follows:

Apparatus Assessed:	AT&T EP5632 Base
Specification:	FCC Part 15 Subpart B, 15.107 and 15.109 FCC Part 15 Subpart C, 15.247
Compliance Status:	Complies
Exclusions:	None
Non-compliances:	None
Report Release History:	Original Release

Author: Jason Nixon, Telecom Specialist

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025.

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Section 1 : Equipment Under Test

1.1 Product Identification

The Equipment Under Test was identified as follows:

AT&T EP5632 Base

1.2 Samples Submitted for Assessment

The following samples of the apparatus have been submitted for type assessment:

Sample No.	Description	Serial No.
1	AT&T EP5632 Base	None
2	AT&T EP5632 Base	None
7	Component Telephone (MN # U090015D12)	None

The first samples were received on: October 23, 2006

1.3 Theory of Operation

The apparatus is the base for a 5.8GHz frequency hopping telephone which also contains a Bluetooth interface.

1.4 Technical Specifications of the EUT

Frequency Hopper

Operating Frequency: 5744.736-5825.952MHz

Peak Output Power: 27.85dBm

Emission Designator 814K4F1E

Rated Power: 29dBm

Modulation: GFSK

Antenna Data: 1dBi

Antenna Connector: Integral

Bluetooth

Operating Frequency: 2402-2480MHz

Peak Output Power: 3.7dBm

Emission Designator 586K4F1D

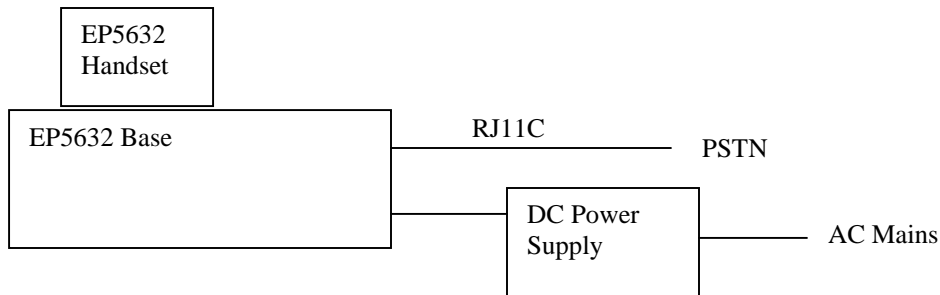
Rated Power: 3dBm

Modulation: GFSK

Antenna Data: 1dBi

Antenna Connector: Integral

1.5 Block Diagram of the EUT



Section 2 : Test Conditions

2.1 Specifications

The apparatus was assessed against the following specifications:

FCC Part 15 Subpart B, 15.107 and 15.109

Unintentional Radiators

FCC Part 15 Subpart C, 15.247

FHSS System and Digitally Modulated Radiators

902-928MHz, 2400 - 2483.5 MHz, 5725-5850MHz

2.2 Deviations From Laboratory Test Procedures

No deviations were made from laboratory test procedures.

2.3 Test Environment

All tests were performed under the following environmental conditions:

Temperature range	:	15 – 30 °C
Humidity range	:	20 - 75 %
Pressure range	:	86 - 106 kPa
Power supply range	:	+/- 5% of rated voltages

2.4 Test Equipment

Equipment	Manufacturer	Model No.	Asset/Serial No.	Next Cal.
Spectrum Analyzer	Rohde & Schwarz	FSP40	FA001920	Mar 17/07
Signal Generator	Rohde & Schwarz	SMR40	FA001879	July 27/07
LISN	Rohde & Schwarz	ENV216	FA002023	Aug. 28/07
Transient Limiter	Hewlett-Packard	1194 7A	FA000975	May 18/07
Spectrum Analyzer	Hewlett-Packard	8566B	FA001309	May 16/07
Spectrum Analyzer Display	Hewlett-Packard	85662A	FA001309	May 16/07
Receiver	Rohde & Schwarz	ESHS 10	FA001918	Feb. 17/07
Biconical (1) Antenna	EMCO	3109	FA000805	May 03/07
Log Periodic Antenna #1	EMCO	LPA-25	FA000477	Sept. 12/07
Horn Antenna #1	EMCO	3115	FA000649	Jan. 12/07
18.0 – 40.0GHz Horn Antenna	EMCO	3116	FA001847	May 3/07
1.0 – 2.0 GHz Amplifier	JCA	12-400	FA001498	Aug. 02/07
2.0 – 4.0 GHz Amplifier	JCA	24-600	FA001496	Aug. 02/07
4.0 – 8.0 GHz Amplifier	JCA	48-600	FA001497	Aug. 02/07
5.0 – 18.0 GHz Amplifier	NARDA	DWT-186N23U40	FA001409	COU
18.0 – 26.0 GHz Amplifier	NARDA	BBS-1826N612	FA001550	COU

COU – Calibrate on Use

NCR – No Calibration Required

Section 3 : Observations

3.1 Modifications Performed During Assessment

No modifications were performed during assessment.

3.2 Record Of Technical Judgements

No technical judgements were made during the assessment.

3.3 EUT Parameters Affecting Compliance

The user of the apparatus could not alter parameters that would affect compliance.

3.4 Test Deleted

No Tests were deleted from this assessment.

3.5 Additional Observations

There were no additional observations made during this assessment.

Section 4 : Results Summary

This section contains the following:

FCC Part 15 Subpart B : Test Results

FCC Part 15 Subpart C : Test Results

The column headed 'Required' indicates whether the associated clauses were invoked for the apparatus under test. The following abbreviations are used:

N No : not applicable / not relevant.

Y Yes : Mandatory i.e. the apparatus shall conform to these tests.

N/T Not Tested, mandatory but not assessed. (See section 3.4 Test deleted)

The results contained in this section are representative of the operation of the apparatus as originally submitted.

4.1 FCC Part 15 Subpart B : Test Results

Part 15	Test Description	Required	Result
15.107(a) 15.109(a)	Conducted Emissions for Class B Radiated Emissions for Class B	Y (1) Y	PASS PASS

4.2 FCC Part 15 Subpart C : Test Results - Phone

Part 15	Test Description	Required	Result
15.31(e)	Variation of power supply	Y	PASS
15.207(a)	Powerline Conducted Emissions	Y	PASS
15.209(a)	Radiated Emissions within Restricted Bands	Y	PASS
15.247(a)(1)	Frequency hopping systems	Y	PASS
15.247(a)(1)(i)	Frequency hopping systems operating in the 902-928 MHz band		
15.247(a)(1)(ii)	Frequency hopping systems operating in the 5725-5850 MHz band	Y	PASS
15.247(a)(1)(iii)	Frequency hopping systems operating in the 2400-2483.5 MHz band		
15.247(a)(2)	Systems using digital modulation techniques		
15.247(b)(1)	Maximum peak output power of Frequency hopping systems operating in the 2400-2483.5 MHz band and 5725-5850 MHz band	Y	PASS
15.247(b)(2)	Maximum peak output power of Frequency hopping systems operating in the 902-928 MHz band	N	
15.247(b)(3)	Maximum peak output power of systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands	N	
15.247(b)(4)	Maximum peak output power	Y	PASS
15.247(c)(1)	Fixed point-to-point Operation with directional antenna gains greater than 6 dBi	N	
15.247(c)(2)	Transmitters operating in the 2400-2483.5 MHz band that emit multiple directional beams	N	
15.247(d)	Radiated Emissions Not in Restricted Bands	Y	PASS
15.247(e)	Power Spectral Density for Digitally Modulated Devices	N	
15.247(f)	Time of Occupancy for Hybrid Systems	N	

4.3 FCC Part 15 Subpart C : Test Results - Bluetooth

Part 15	Test Description	Required	Result
15.31(e)	Variation of power supply	Y	PASS
15.207(a)	Powerline Conducted Emissions	Y (1)	PASS
15.209(a)	Radiated Emissions within Restricted Bands	Y	PASS
15.247(a)(1)	Frequency hopping systems	Y	PASS
15.247(a)(1)(i)	Frequency hopping systems operating in the 902-928 MHz band	N	
15.247(a)(1)(ii)	Frequency hopping systems operating in the 5725-5850 MHz band	Y	PASS
15.247(a)(1)(iii)	Frequency hopping systems operating in the 2400-2483.5 MHz band	N	
15.247(a)(2)	Systems using digital modulation techniques	N	
15.247(b)(1)	Maximum peak output power of Frequency hopping systems operating in the 2400-2483.5 MHz band and 5725-5850 MHz band	Y	PASS
15.247(b)(2)	Maximum peak output power of Frequency hopping systems operating in the 902-928 MHz band	N	
15.247(b)(3)	Maximum peak output power of systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands	N	
15.247(b)(4)	Maximum peak output power	Y	PASS
15.247(c)(1)	Fixed point-to-point Operation with directional antenna gains greater than 6 dBi	N	
15.247(c)(2)	Transmitters operating in the 2400-2483.5 MHz band that emit multiple directional beams	N	
15.247(d)	Radiated Emissions Not in Restricted Bands	Y	PASS
15.247(e)	Power Spectral Density for Digitally Modulated Devices	N	
15.247(f)	Time of Occupancy for Hybrid Systems	N	

Notes:

(1) See results test results for Phone clause 15.207(a).

Appendix A : Part 15 Subpart B - Test Results

Clause 15.109(a) Radiated Emissions

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency of Emission (MHz)	Field Strength (microvoltsmeter)
30 - 88	100
88 - 216	150
216 - 960	200
Above 960	500

Test Conditions:

Sample Number:	1	Temperature (°C):	10
Date:	October 27, 2006	Humidity (%):	56
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	OATS

Test Results:

See Attached Table for Results

Additional Observations:

The Spectrum was searched from 30MHz to the 5th Harmonic.

Measurement equipment setup was 120kHz Quasi-peak detector for measurements below 1GHz and 1MHz RBW/VBW peak detector above 1GHz. For average measurements a 1MHz RBW/10Hz VBW peak detector was used above 1GHz.

Measurements below 8GHz were performed at 3 meters and measurements above 8GHz were performed at 1m.

For emissions above 8GHz the limit has been increased by $20\log(3/1) = 9.5\text{dB}$ to correct for the measurement distance of 1 meter.

Freq. (MHz)	Ant	Pol. V/H	RCVD Signal (dBμV)	Ant. Factor (dB)	Amp. Gain (dB)	Cable Loss (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
40.9624	BC1	V	17.9	10.4	N/A	1.3	29.6	40.0	10.4	Q-Peak
165.8883	BC1	V	9.3	13.2	N/A	2.0	24.5	43.5	19.0	Q-Peak
262.6563	BC1	V	9.8	17.1	N/A	2.4	29.2	46.4	17.2	Q-Peak
262.6563	BC1	H	10.4	16.7	N/A	2.4	29.5	46.4	17.0	Q-Peak
248.8325	BC1	V	10.4	16.5	N/A	2.3	29.2	46.4	17.2	Q-Peak
248.8325	BC1	H	13.2	15.7	N/A	2.3	31.2	46.4	15.2	Q-Peak
179.7120	BC1	V	15.9	13.2	N/A	2.1	31.2	43.5	12.3	Q-Peak
179.7120	BC1	H	13.1	12.4	N/A	2.1	27.6	43.5	15.9	Q-Peak
276.4805	BC1	H	12.0	17.1	N/A	2.4	31.5	46.4	14.9	Q-Peak
235.0084	BC1	H	15.1	15.4	N/A	2.3	32.8	46.4	13.6	Q-Peak
207.3594	BC1	H	12.9	14.5	N/A	2.3	29.7	43.5	13.9	Q-Peak
373.2489	LP1	V	13.6	15.4	N/A	2.8	31.8	46.4	14.6	Q-Peak
373.2489	LP1	H	15.5	15.5	N/A	2.8	33.8	46.4	12.6	Q-Peak
511.4892	LP1	V	10.4	18.6	N/A	3.2	32.2	46.4	14.3	Q-Peak
511.4892	LP1	H	12.9	19.1	N/A	3.2	35.2	46.4	11.3	Q-Peak
622.0813	LP1	V	11.5	19.8	N/A	3.6	34.9	46.4	11.6	Q-Peak
622.0813	LP1	H	9.6	20.3	N/A	3.6	33.5	46.4	13.0	Q-Peak
594.4330	LP1	V	12.9	18.8	N/A	3.4	35.1	46.4	11.4	Q-Peak
594.4330	LP1	H	11.6	19.8	N/A	3.4	34.8	46.4	11.7	Q-Peak
456.1928	LP1	V	9.8	16.7	N/A	3.0	29.5	46.4	16.9	Q-Peak
456.1928	LP1	H	16.2	17.0	N/A	3.0	36.2	46.4	10.2	Q-Peak
345.6000	LP1	V	11.7	14.8	N/A	2.7	29.2	46.4	17.2	Q-Peak
345.6000	LP1	H	17.7	15.3	N/A	2.7	35.7	46.4	10.7	Q-Peak
4802.0000	Horn2	V	73.0	33.3	55.6	8.6	59.3	74.0	14.7	Peak
4802.0000	Horn2	H	72.2	33.1	55.6	8.6	58.4	74.0	15.6	Peak
4802.0000	Horn2	V	57.5	33.3	55.6	8.6	43.8	54.0	10.2	Average
4802.0000	Horn2	H	57.0	33.1	55.6	8.6	43.2	54.0	10.8	Average
4883.0000	Horn2	V	73.0	33.3	55.3	8.6	59.6	74.0	14.4	Peak
4883.0000	Horn2	H	73.7	33.2	55.3	8.6	60.1	74.0	13.9	Peak
4883.0000	Horn2	V	58.3	33.3	55.3	8.6	44.9	54.0	9.1	Average
4883.0000	Horn2	H	58.3	33.2	55.3	8.6	44.8	54.0	9.2	Average
4964.5000	Horn2	V	73.0	33.3	55.0	8.4	59.7	74.0	14.3	Peak
4964.5000	Horn2	H	72.7	33.2	55.0	8.4	59.3	74.0	14.7	Peak
4964.5000	Horn2	V	57.0	33.3	55.0	8.4	43.7	54.0	10.3	Average
4964.5000	Horn2	H	57.8	33.2	55.0	8.4	44.4	54.0	9.6	Average
3343.8300	Horn2	V	73.2	31.0	59.3	6.2	51.0	54.0	3.0	Peak
3343.8300	Horn2	H	77.3	31.0	59.3	6.2	55.2	74.0	18.8	Peak
3343.8300	Horn2	H	62.2	31.0	59.3	6.2	40.0	54.0	14.0	Average

Note 1: Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole

Freq. (MHz)	Ant	Pol. V/H	RCVD Signal (dBμV)	Ant. Factor (dB)	Amp. Gain (dB)	Cable Loss (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
8145.830	Horn2	V	69.7	37.9	36.0	0.0	71.6	83.5	11.9	Peak
8145.830	Horn2	H	64.8	37.7	36.0	0.0	66.5	83.5	17.0	Peak
8226.830	Horn2	V	69.3	38.0	36.0	0.0	71.4	83.5	12.1	Peak
8226.830	Horn2	H	65.0	37.7	36.0	0.0	66.7	83.5	16.8	Peak
8308.330	Horn2	V	65.2	38.1	36.0	0.0	67.3	83.5	16.2	Peak
8308.330	Horn2	H	61.5	37.8	36.0	0.0	63.3	83.5	20.2	Peak
8145.830	Horn2	V	47.8	37.9	36.0	0.0	49.8	63.5	13.7	Average
8145.830	Horn2	H	45.7	37.7	36.0	0.0	47.4	63.5	16.1	Average
8226.830	Horn2	V	48.0	38.0	36.0	0.0	50.0	63.5	13.5	Average
8226.830	Horn2	H	45.8	37.7	36.0	0.0	47.6	63.5	15.9	Average
8308.330	Horn2	V	46.2	38.1	36.0	0.0	48.3	63.5	15.2	Average
8308.330	Horn2	H	44.7	37.8	36.0	0.0	46.5	63.5	17.0	Average

Note 1: Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole

Appendix B : Part 15 Subpart C Phone - Test Results

Clause 15.207(a) Powerline Conducted Emissions

Frequency of Conducted limit (dBmV)		
Emission (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
* Decreases with the logarithm of the frequency.		

Test Conditions:

Sample Number:	1	Temperature (°C):	22
Date:	October 25, 2006	Humidity (%):	30
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	Shielded Room

Test Results: See Attached Plots and Table.

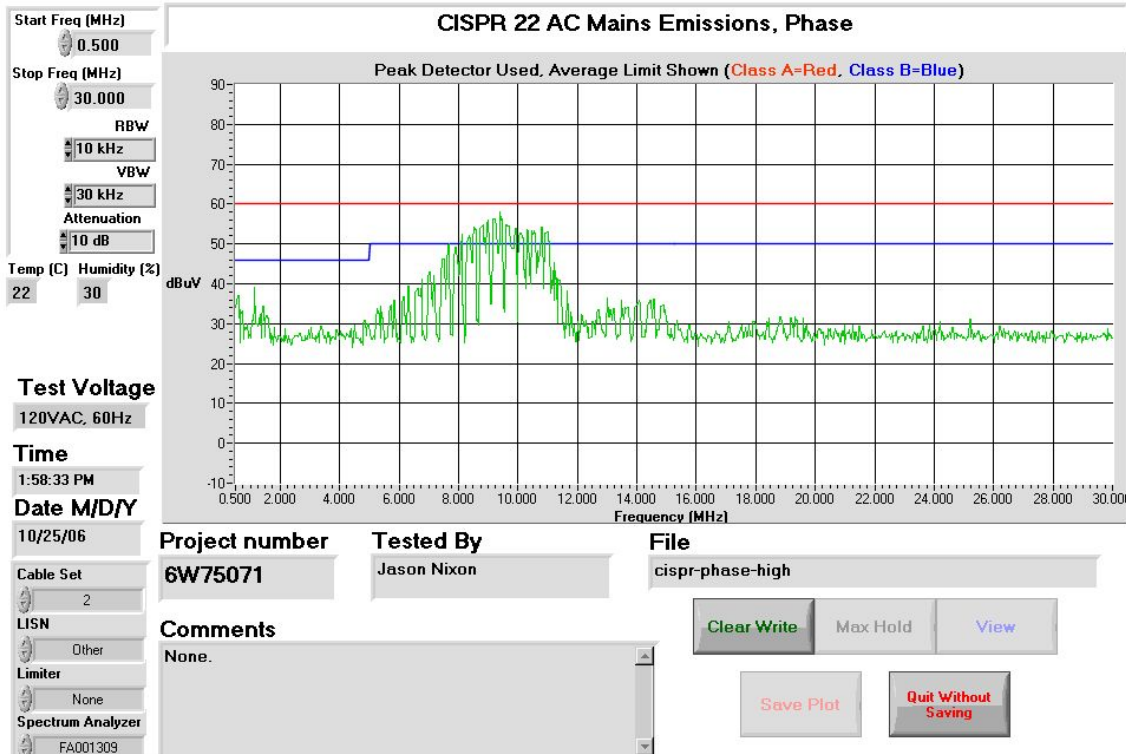
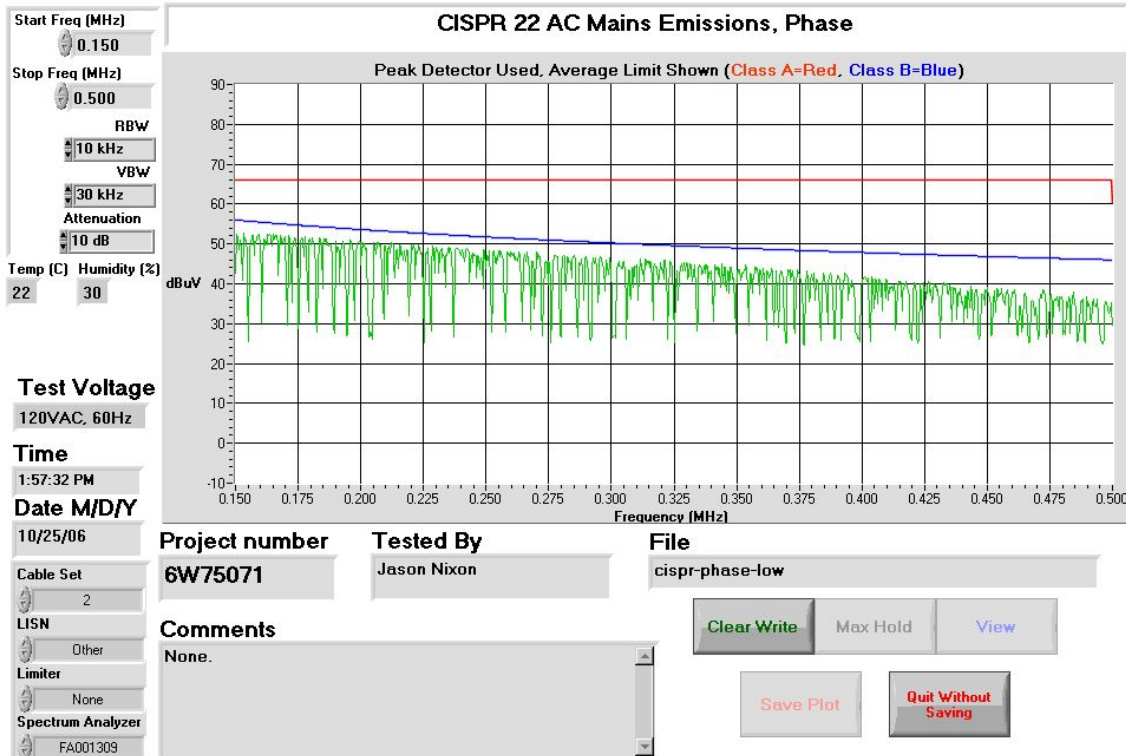
Conductor	Frequency (MHz)	Detector	Emission Level (dBuV)	LISN Loss (dB)	Cable Loss (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	
1	Phase	0.3125	Quasi Peak	26.4	9.89	0.01	36.30	59.9	23.6
			Average	-2.2	9.89	0.01	7.70	49.9	42.2
2	Phase	0.4050	Quasi Peak	23.3	9.89	0.04	33.24	57.8	24.5
			Average	-3.2	9.89	0.04	6.74	47.8	41.0
3	Phase	0.4847	Quasi Peak	20.1	9.92	0.04	30.07	56.3	26.2
			Average	-6.6	9.92	0.04	3.37	46.3	42.9
4	Phase	0.5022	Quasi Peak	19.3	9.93	0.04	29.27	56.0	26.7
			Average	-6.8	9.93	0.04	3.17	46.0	42.8
5	Phase	9.2020	Quasi Peak	43.9	9.72	0.16	53.78	60.0	6.2
			Average	28.3	9.72	0.16	38.20	50.0	11.8
6	Phase	10.9062	Quasi Peak	40.4	9.76	0.16	50.32	60.0	9.7
			Average	22.2	9.76	0.16	32.12	50.0	17.9
7	Neutral	0.3125	Quasi Peak	30.4	9.87	0.01	40.28	59.9	19.6
			Average	0.8	9.87	0.01	10.68	49.9	39.2
8	Neutral	0.4050	Quasi Peak	29.5	9.87	0.04	39.42	57.7	18.3
			Average	0.2	9.87	0.04	10.12	47.7	37.6
9	Neutral	0.4847	Quasi Peak	28.9	9.92	0.04	38.86	56.3	17.4
			Average	-0.4	9.92	0.04	9.56	46.3	36.7
10	Neutral	0.5022	Quasi Peak	28.7	9.93	0.04	38.67	56.0	17.3
			Average	-0.1	9.93	0.04	9.91	46.0	36.1
11	Neutral	9.2020	Quasi Peak	45.3	9.70	0.16	55.16	60.0	4.8
			Average	29.4	9.70	0.16	39.26	50.0	10.7
12	Neutral	10.9062	Quasi Peak	41.5	9.78	0.16	51.44	60.0	8.6
			Average	22.1	9.78	0.16	32.04	50.0	18.0

Additional Observations:

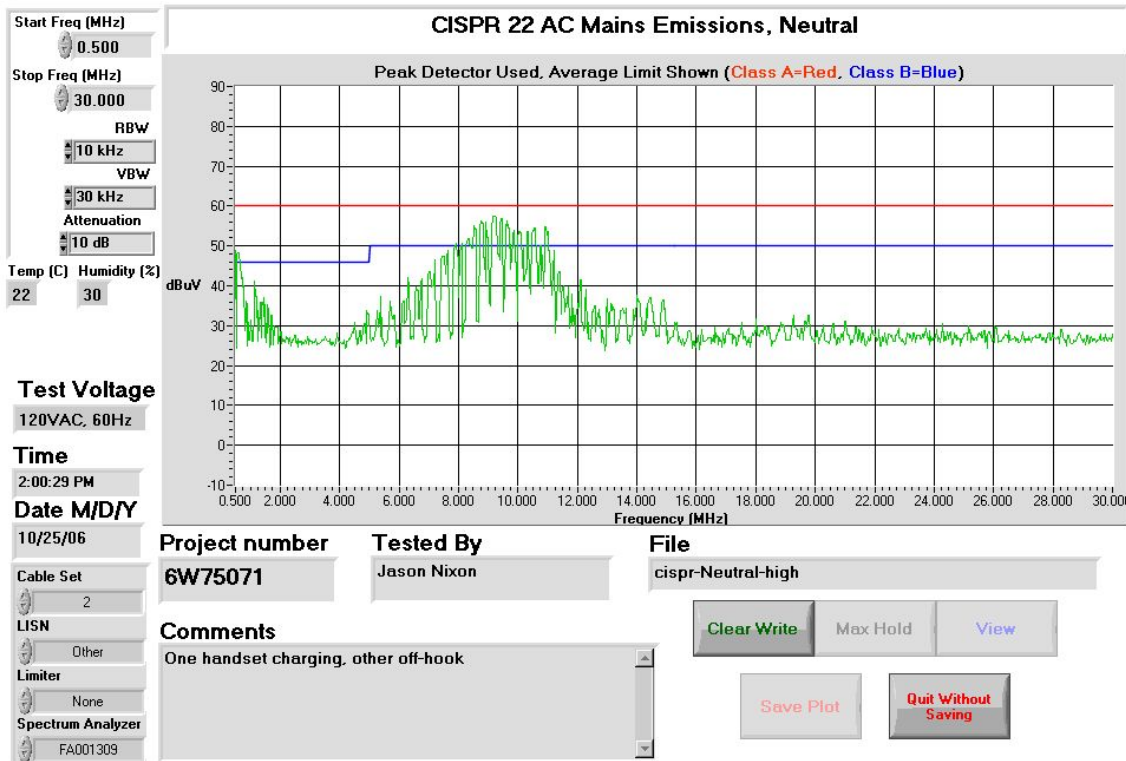
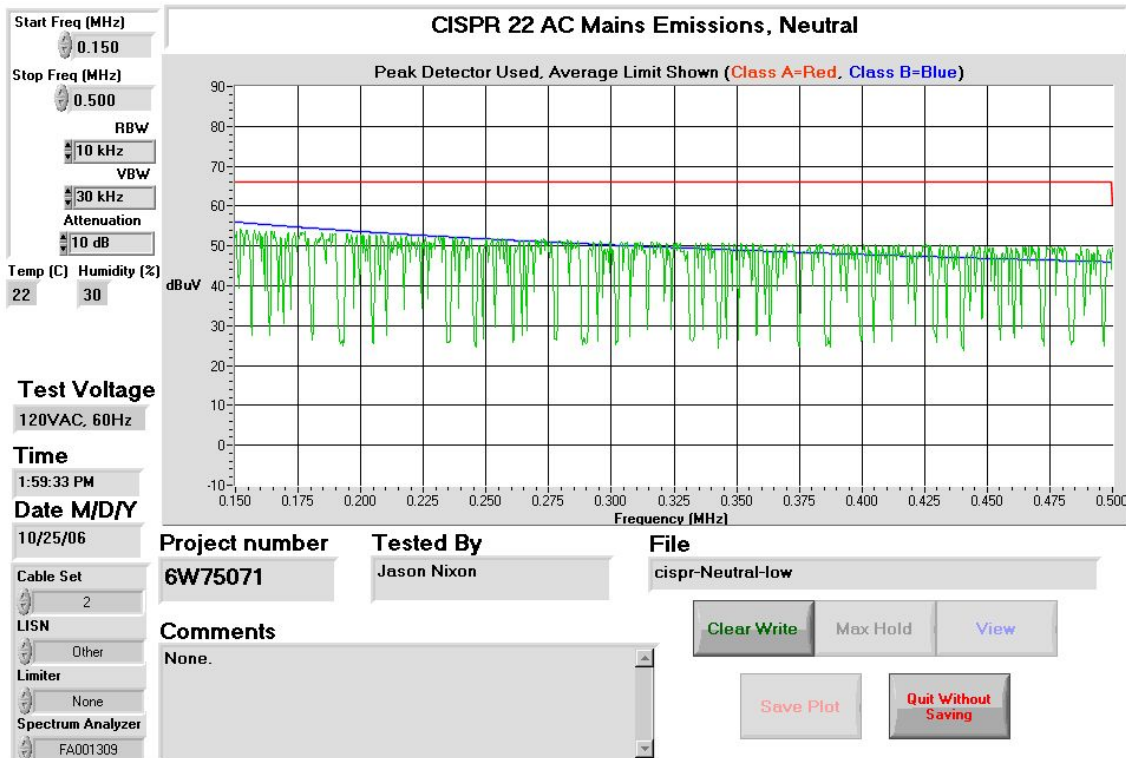
All plots were taken with a Peak detector and compared to the Average limit. All Plots are corrected with the LISN and Cable losses to show compliance.

The worst-case emissions were found when one handset is on the base charging and the second is Off-hook.

Phase Conductor:



Neutral Conductor:



Clause 15.209(a) Radiated Emissions within Restricted Bands

Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvoltmeter)	Measurement Distance (meters)
0.009-0.490	2400/F (kHz)	300
0.490-1.705	24000/F (kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Test Conditions:

Sample Number:	1	Temperature (°C):	24
Date:	October 24, 2006	Humidity (%):	29
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	Wireless

Test Results:

See Attached Table for Results

Additional Observations:

The Spectrum was searched from 30MHz to 40GHz.

These results apply to emissions found in the Restricted bands defined in FCC Part 15 Subpart C, 15.205.

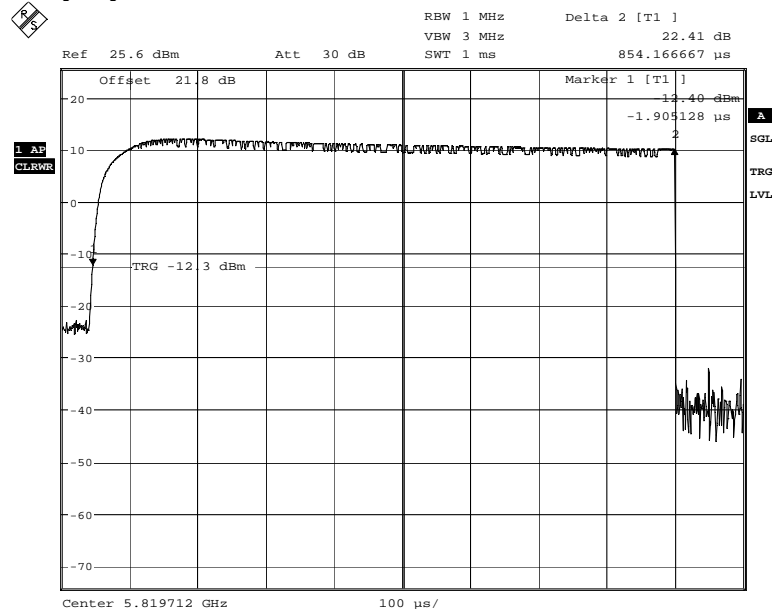
Emissions above 8GHz were measured at 1 meter and corrected with $20\log(3/1) = 9.5\text{dB}$.

All measurements were performed using a Peak detector with 1MHz RBW/VBW above 1GHz and 100kHz RBW/VBW below 1GHz.

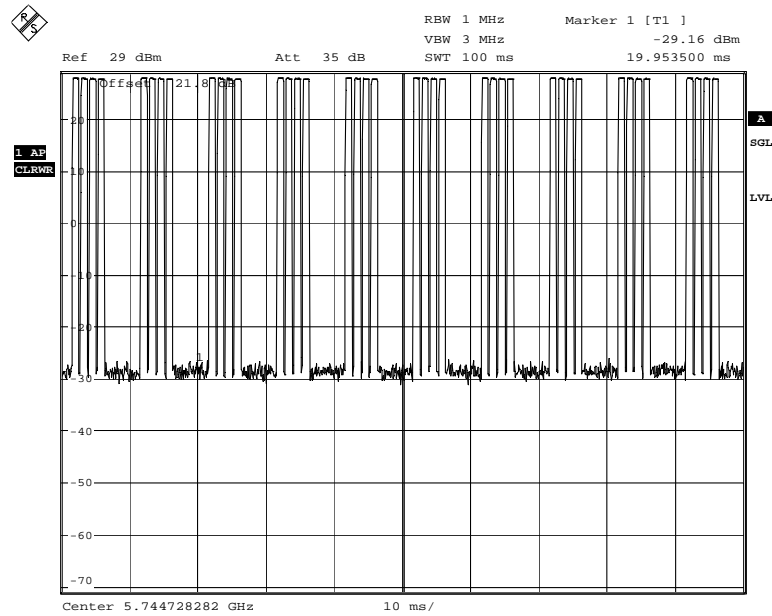
Frequency (MHz)	Antenna	Polarity	RCVD Signal (dBuV)	Ant. Factor (dB)	Amp. Gain / Cable Loss (dB)	Duty Cycle Corr.	Distance Correction	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
1	11488.000	Horn2	V	64.3	39.5	35.5	9.3	9.5	58.8	74	15.2	Peak
									49.5	54	4.5	Average
2	11488.000	Horn2	H	63.5	39.3	35.5	9.3	9.5	57.8	74	16.2	Peak
									48.5	54	5.5	Average
3	11570.000	Horn2	V	62.0	39.5	35.5	9.3	9.5	56.5	74	17.5	Peak
									47.2	54	6.8	Average
4	11570.000	Horn2	H	61.0	39.3	35.5	9.3	9.5	55.3	74	18.7	Peak
									46.0	54	8.0	Average
5	11652.000	Horn2	V	60.2	39.5	35.5	9.3	9.5	54.7	74	19.3	Peak
									45.4	54	8.6	Average
6	11652.000	Horn2	H	57.3	39.3	35.5	9.3	9.5	51.6	74	22.4	Peak
									42.3	54	11.7	Average

Note 1: Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole

Duty Cycle:



Dwell Time
 Date: 24.OCT.2006 15:26:03



On-time in 100msec
 Date: 24.OCT.2006 16:06:14

Duty cycle Correction = $20\log((10 \times 4 \times 0.8562)/100) = -9.3\text{dB}$

Clause 15.247(a)(1) Frequency hopping systems

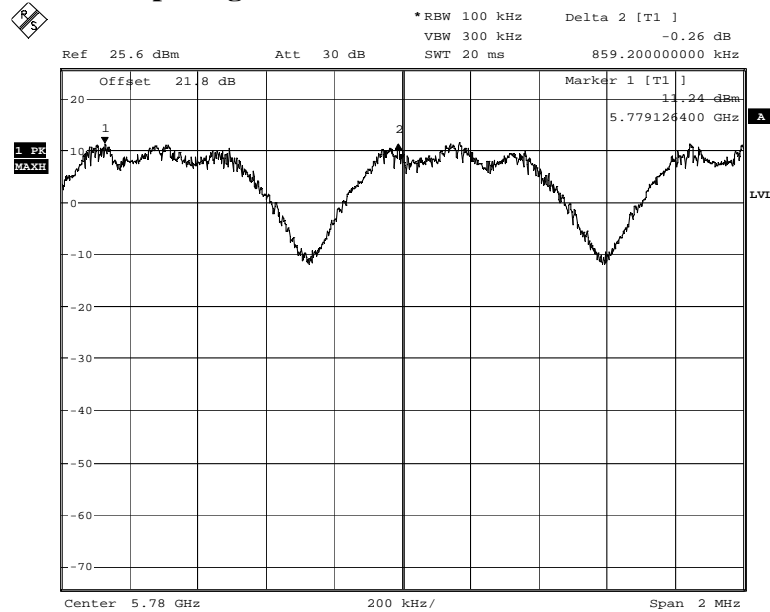
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Test Conditions:

Sample Number:	2	Temperature (°C):	24
Date:	October 24, 2006	Humidity (%):	29
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	Wireless

Test Results:

Channel Spacing:



Channel Spacing
 Date: 24.OCT.2006 15:01:58

Clause 15.247(a)(1)(ii) Frequency hopping systems operating in the 5725-5850 MHz band

Frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75 hopping frequencies. The maximum 20 dB bandwidth of the hopping channel is 1 MHz. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

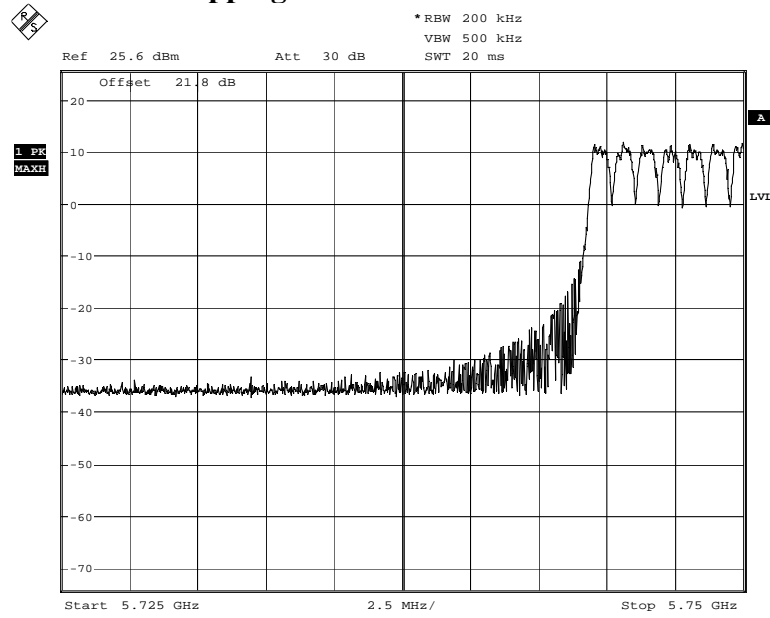
Test Conditions:

Sample Number:	2	Temperature (°C):	24
Date:	October 24, 2006	Humidity (%):	29
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	Wireless

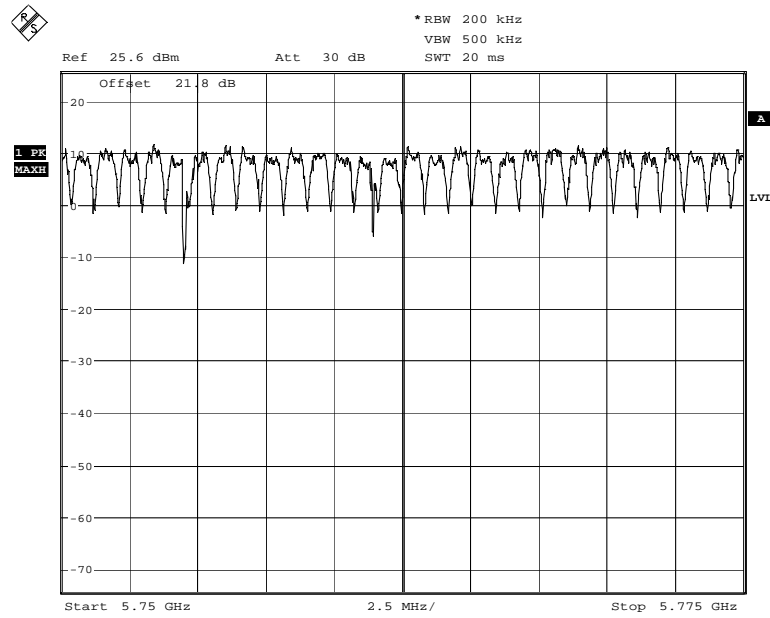
Test Results:

Number of Hopping channels = 95
 Maximum 20dB Bandwidth = 814.4kHz
 Time of Occupancy = 136.67msec in 30 seconds

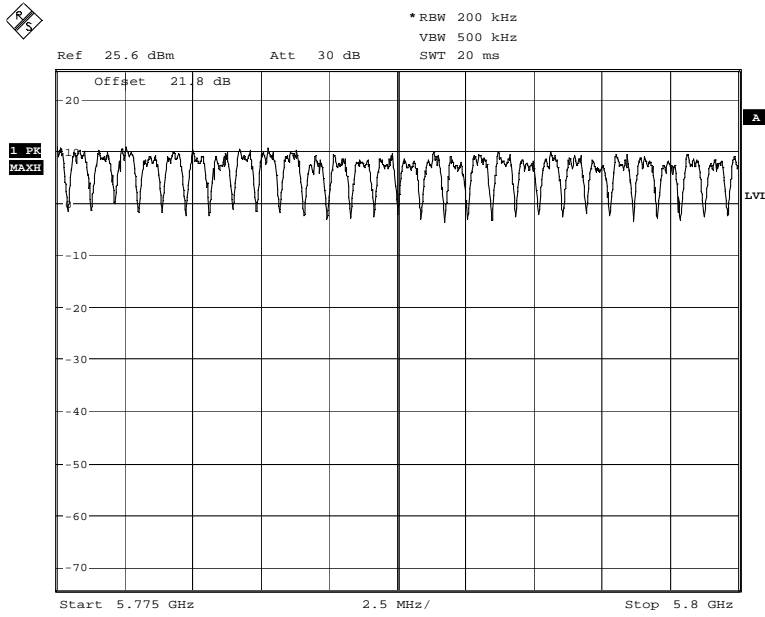
Number of Hopping Channels:



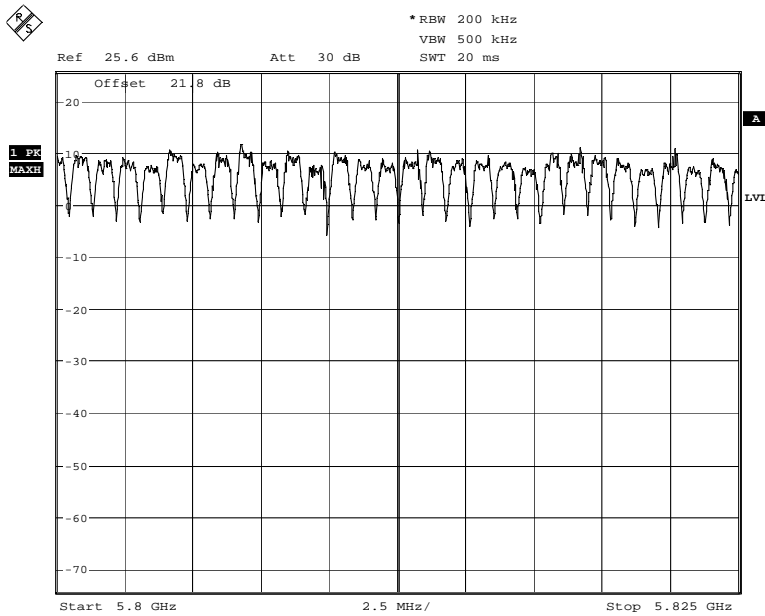
Number of Hopping Channels
Date: 24.OCT.2006 15:07:11



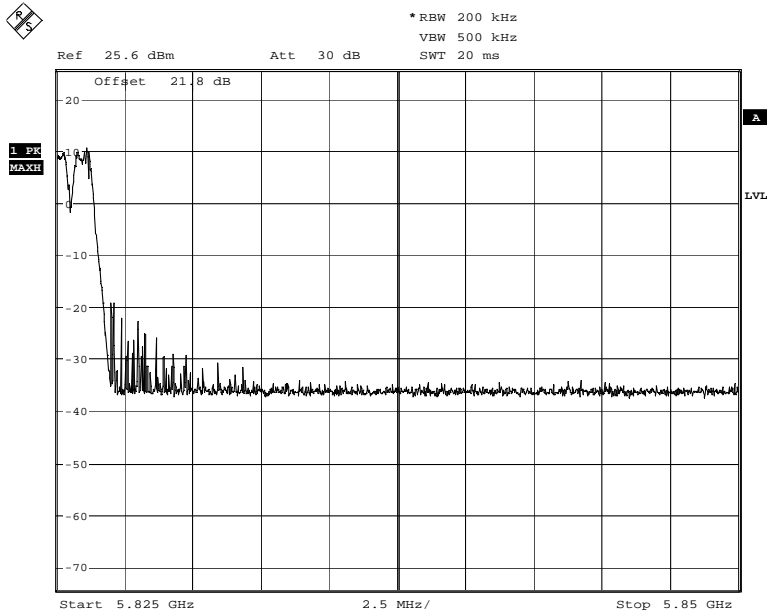
Number of Hopping Channels
Date: 24.OCT.2006 15:09:26



Number of Hopping Channels
Date: 24.OCT.2006 15:12:42

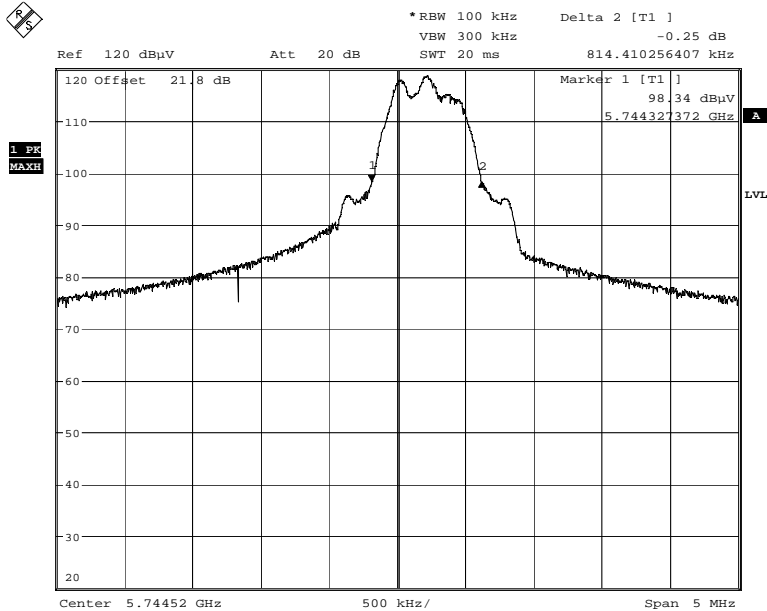


Number of Hopping Channels
Date: 24.OCT.2006 15:19:35

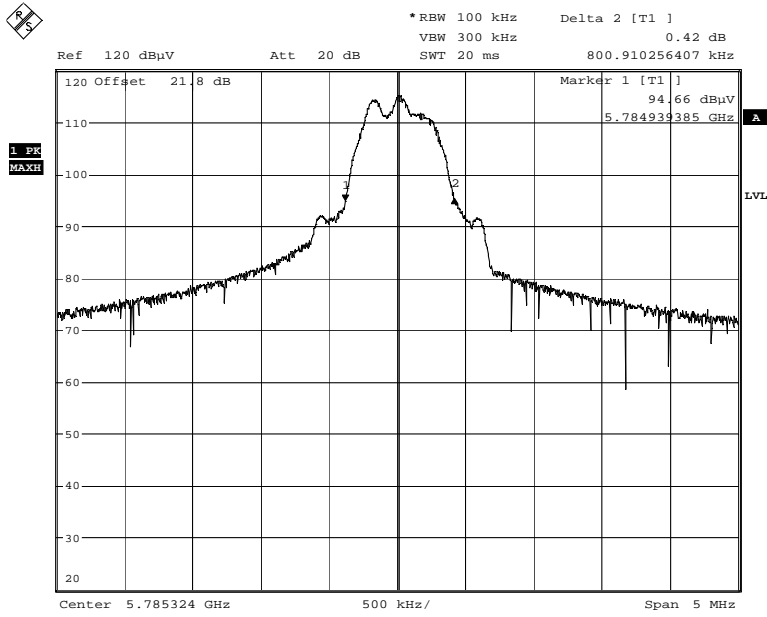


Number of Hopping Channels
 Date: 24.OCT.2006 15:22:06

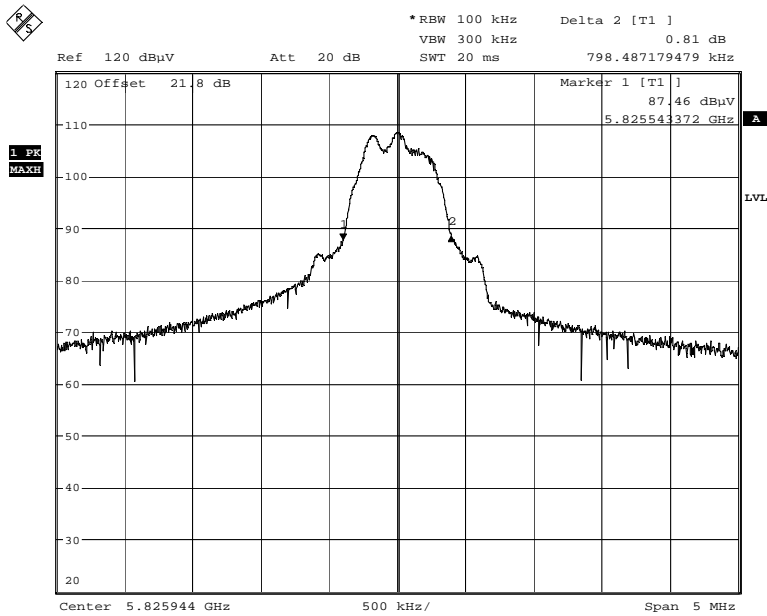
20dB Bandwidth:



20dB Bandwidth - Low Channel
 Date: 24.OCT.2006 15:37:35

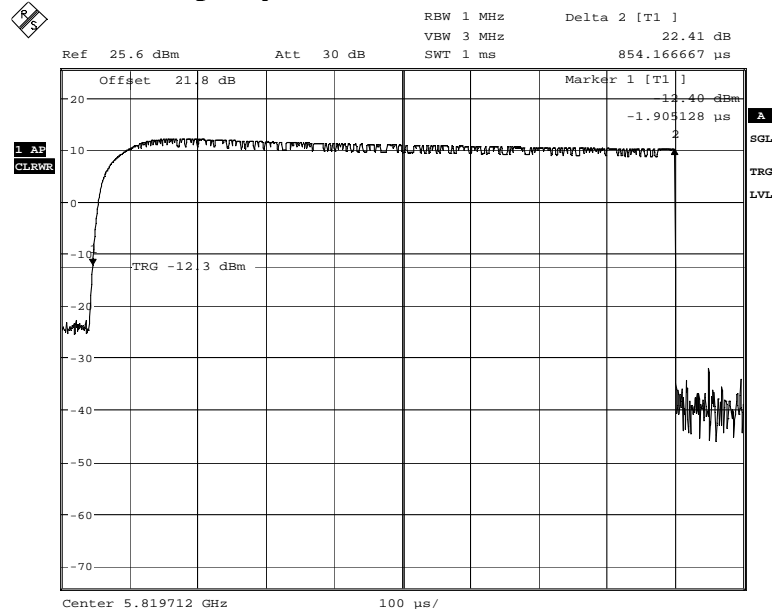


20dB Bandwidth - Middle Channel
Date: 24.OCT.2006 15:40:39

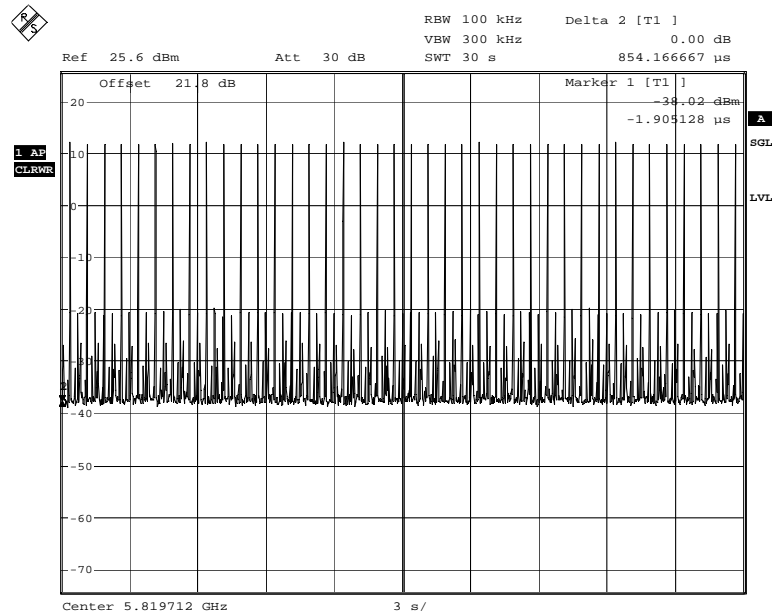


20dB Bandwidth - High Channel
Date: 24.OCT.2006 15:42:03

Time of Occupancy:



Dwell Time
 Date: 24.OCT.2006 15:26:03



40 Hits in 30seconds
 Date: 24.OCT.2006 15:29:36

Time of occupancy = 0.854.2msec x 40 hits x 4 timeslots = 136.67msec in 30 seconds

Clause 15.247(b)(1) Maximum peak output power of Frequency hopping systems operating in the 2400-2483.5 MHz band and 5725-5850 MHz band

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

Test Conditions:

Sample Number:	2	Temperature (°C):	24
Date:	October 24, 2006	Humidity (%):	29
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	Wireless

Test Results:

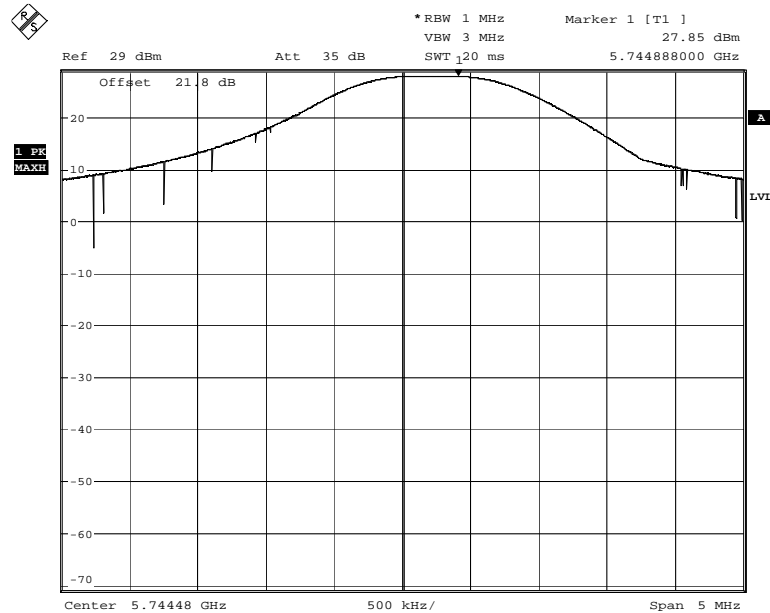
Conducted Output Power:

The output power was measured at +/-15% of the supply voltage and found that there was no change.

Note: The EUT was modified by the manufacturer to perform conducted measurements.

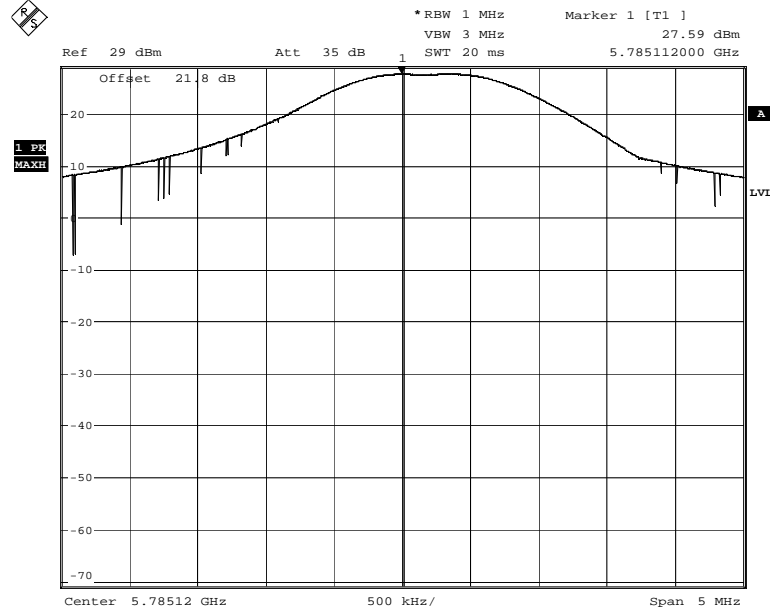
Channel Range	Measured Output Power (W)
Low	0.610
Mid	0.574
High	0.535

Low Channel:



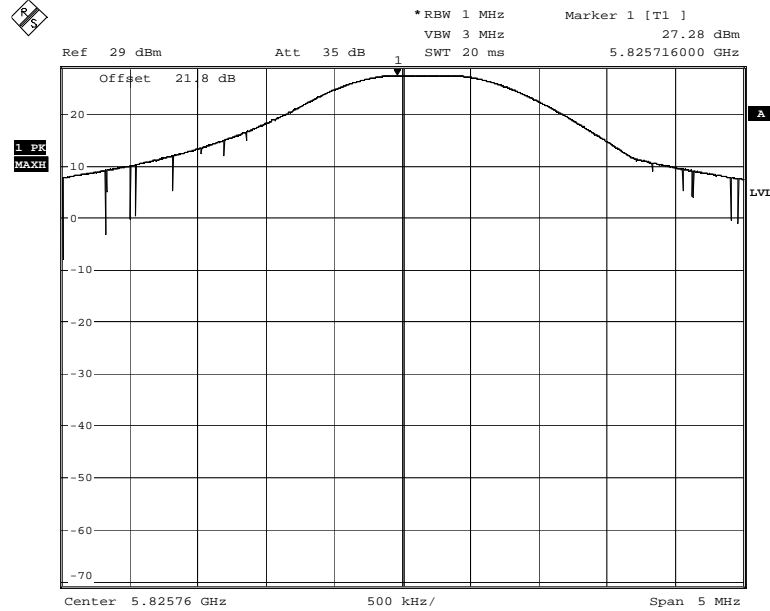
Peak Power - Low Channel
Date: 24.OCT.2006 16:04:07

Mid Channel:



Peak Power - Mid Channel
Date: 24.OCT.2006 16:03:06

High Channel:



Peak Power - High Channel
Date: 24.OCT.2006 16:01:44

Clause 15.247(b)(4) Maximum peak output power

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Conditions:

Sample Number:	1	Temperature (°C):	24
Date:	October 24, 2006	Humidity (%):	29
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	OATS

Test Results:

Radiated Output Power:

Ch.	Freq.	Pol V/H	ANT.	Rx dBuV	Cable loss dB	Ant Factor dB/m	F.S. dBuV/m
low	5745.0000	V	Horn1	75.8	9.8	34.6	120.2
	5745.0000	H	Horn1	70.7	9.8	34.7	115.2
mid	5785.0000	V	Horn1	72.8	9.8	34.6	117.2
	5785.0000	H	Horn1	67.3	9.8	34.7	111.9
hi	5826.0000	V	Horn1	71.2	9.7	34.6	115.5
	5826.0000	H	Horn1	68.5	9.7	34.7	112.9

Measured value (V/m) = $10^{(FS/20)} = 1.023292992V/m$

Output Power (W) = $\frac{E^2 R^2}{30G} = 0.314W (24.97dBm)$

E = Measured Value (V/m)

R = Measurement distance

G = Antenna Gain (numeric) (assumed to be 1 to get EIRP)

Additional Observations:

All Measurements were performed at 3m using a 1MHz RBW/VBW.

Clause 15.247(d) Radiated Emissions Not in Restricted Bands

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

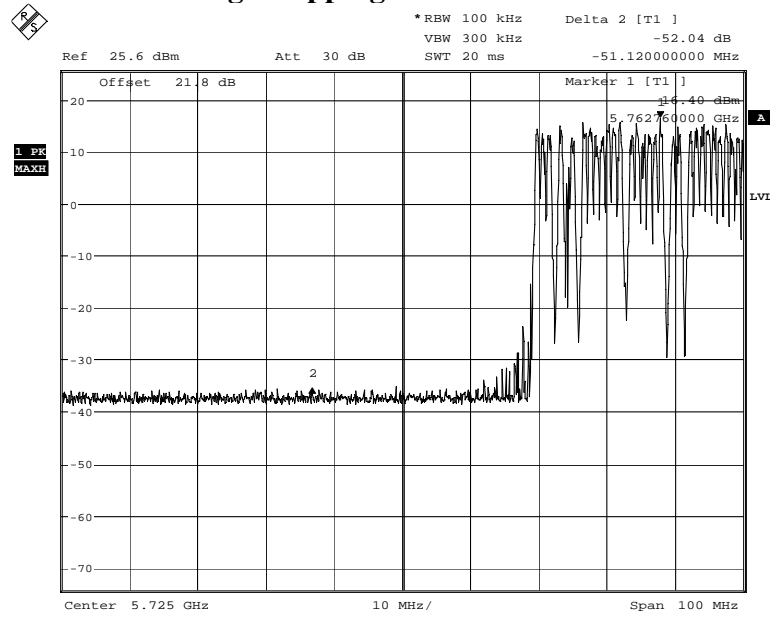
Test Conditions:

Sample Number:	1/2	Temperature (°C):	24
Date:	October 24, 2006	Humidity (%):	29
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	Wireless

Test Results:

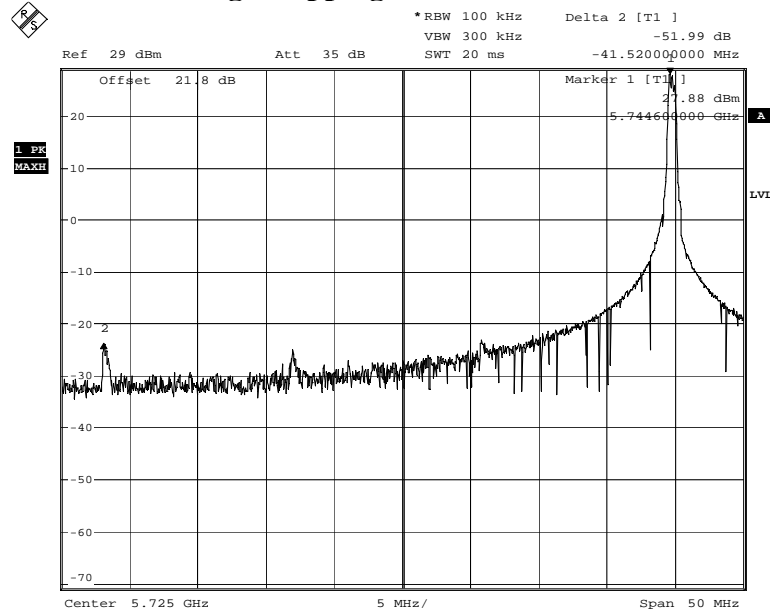
See Attached Table and Plots.

Lower Band Edge Hopping On:



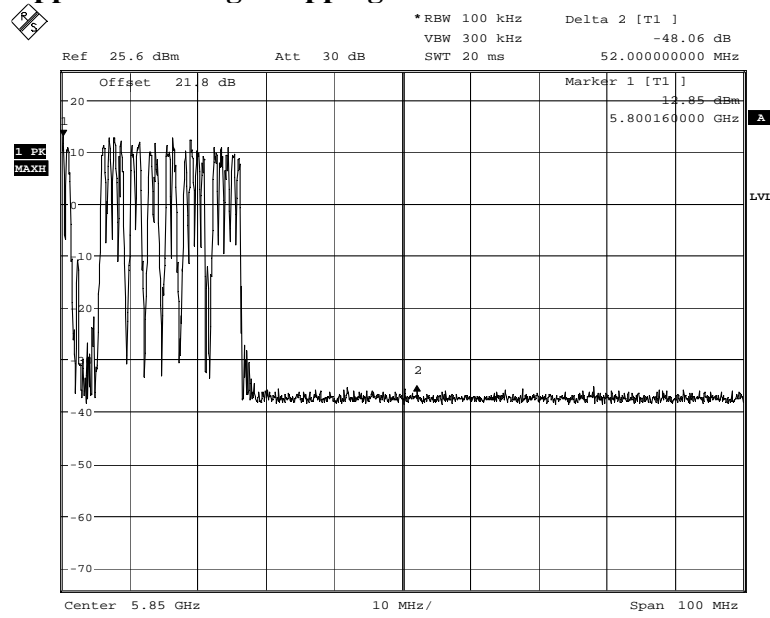
Lower Bandedge - Hopping on
Date: 24.OCT.2006 14:48:09

Lower Band Edge Hopping Off:



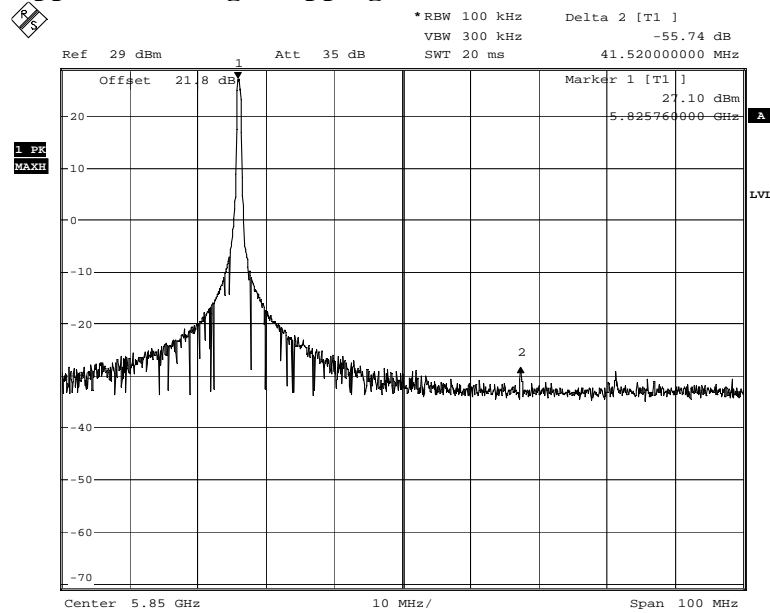
Lower Bandedge - Hopping Off
Date: 24.OCT.2006 15:58:36

Upper Band Edge Hopping On:



Upper Bandedge - Hopping on
Date: 24.OCT.2006 14:45:17

Upper Band Edge Hopping Off:

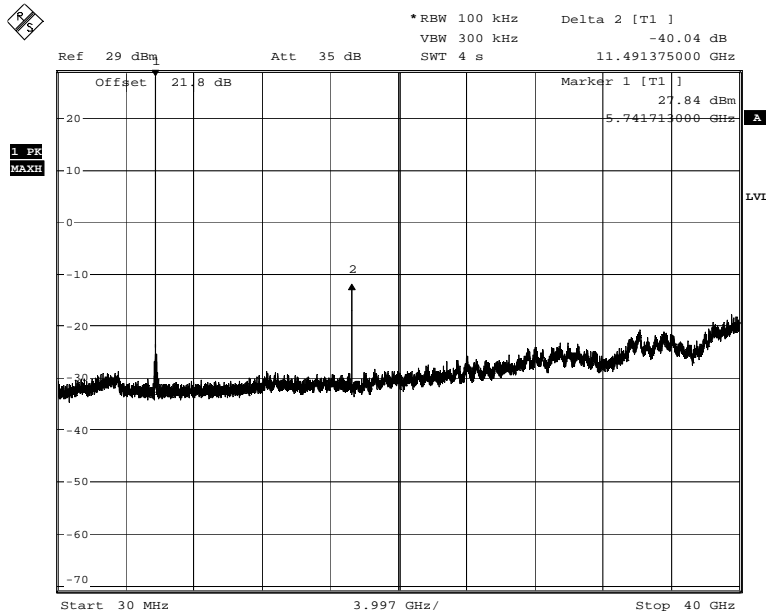


Upper Bandedge - Hopping Off
Date: 24.OCT.2006 15:59:40

Conducted Emissions

Harmonic	Level (dBm)		
	Low Channel	Mid Channel	High Channel
Fundamental	27.68	27.10	26.56
2 nd	-27.17	-26.79	-26.99
3 rd	-11.04	-10.97	-10.87
4 th	-24.80	-26.28	-26.02
5 th	—	—	—
6 th	—	—	—

All measurements in table are from zoom plots on the harmonics to show compliance with the 20dBc requirements.



Conducted Emissions - Low Channel
 Date: 24.OCT.2006 16:29:15

Radiated Emissions

Frequency (MHz)	Antenna	Polarity	RCVD Signal (dBuV)	Ant. Factor (dB)	Amp. Gain/cable loss (dB)	Distance Corr. (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
5745.0000	Horn1	V	75.8	34.6	9.8	0.0	120.2		
5745.0000	Horn1	H	70.7	34.7	9.8	0.0	115.2		
17232.000	Horn2	V	65.9	43.4	34.0	9.5	65.8	100.2	34.4
17232.000	Horn2	H	68.7	43.3	34.0	9.5	68.4	95.2	26.8
5785.0000	Horn1	V	72.8	34.6	9.8	0.0	117.2		
5785.0000	Horn1	H	67.3	34.7	9.8	0.0	111.9		
17355.000	Horn2	V	56.7	44.0	34.0	9.5	57.2	97.2	40.0
17355.000	Horn2	H	56.2	43.9	34.0	9.5	56.6	91.9	35.3
5826.0000	Horn1	V	71.2	34.6	9.7	0.0	115.5		
5826.0000	Horn1	H	68.5	34.7	9.7	0.0	112.9		
17478.000	Horn2	V	53.5	44.7	34.0	9.5	54.7	95.5	40.8
17478.000	Horn2	H	52.8	44.6	34.0	9.5	53.9	92.9	39.0

Note 1: Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole

Additional Observations:

All measurements were performed using a Peak detector with 100kHz RBW/VBW.

Measurements below 8GHz were performed at 3m and measurements above 8GHz were performed at 1 meter.

Appendix C : Bluetooth - Test Results

Clause 15.209(a) Radiated Emissions within Restricted Bands

Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvoltsmeter)	Measurement Distance (meters)
0.009-0.490	2400/F (kHz)	300
0.490-1.705	24000/F (kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Test Conditions:

Sample Number:	1	Temperature (°C):	10
Date:	October 25, 2006	Humidity (%):	66
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	OATS

Test Results:

See Attached Table for Results

Additional Observations:

The Spectrum was searched from 30MHz to 25GHz.

These results apply to emissions found in the Restricted bands defined in FCC Part 15 Subpart C, 15.205.

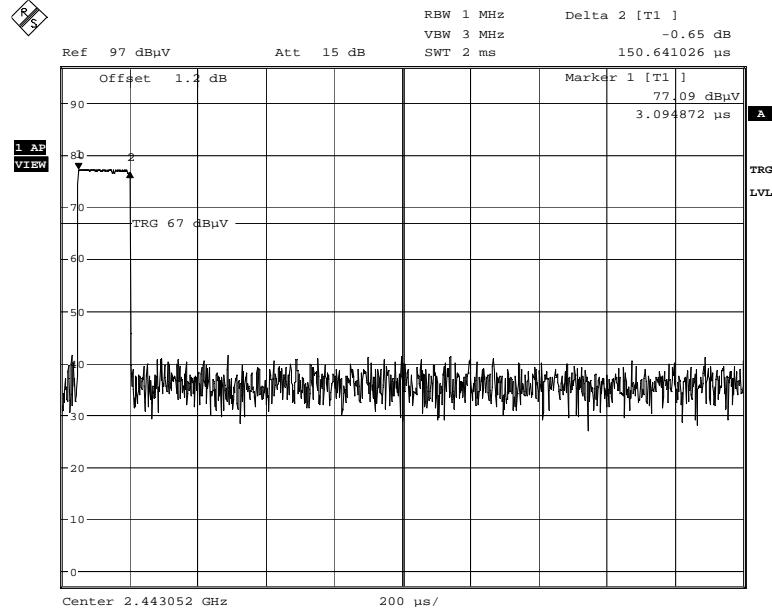
Emissions above 8GHz were measured at 1 meter and corrected with $20\log(3/1) = 9.5\text{dB}$.

All measurements were performed using a Peak detector with 1MHz RBW/VBW above 1GHz and 100kHz RBW/VBW below 1GHz.

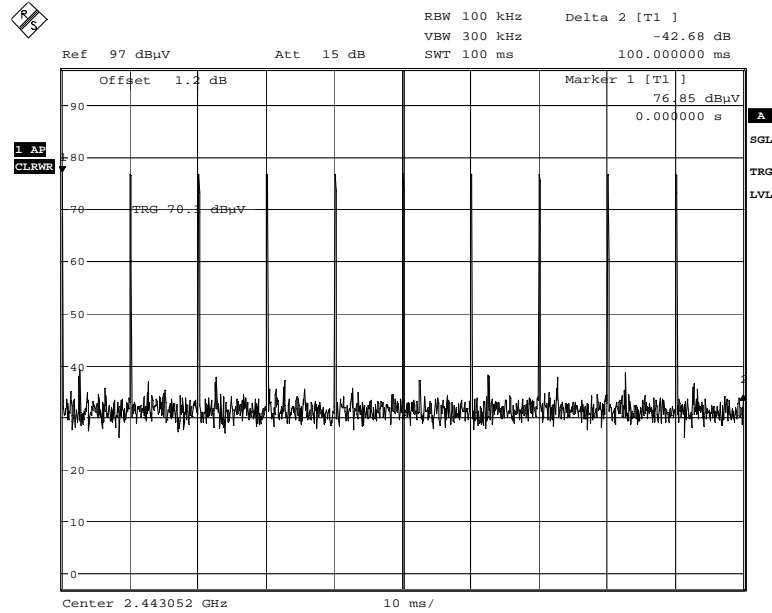
	Frequency (MHz)	Antenna	Polarity	RCVD Signal (dBuV)	Ant. Factor (dB)	Amp. Gain / Cable Loss (dB)	Duty Cycle Corr.	Distance Correction	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4804.0000	Horn1	V	64.3	33.4	47.0	0.0	0.0	50.8	54.0	3.2	Peak
2	4804.0000	Horn1	H	62.2	33.5	47.0	0.0	0.0	48.7	54.0	5.3	Peak
3	12010.000	Horn2	V	52.5	39.5	34.7	36.4	9.5	47.8	74	26.2	Peak
									11.4	54	42.6	Average
4	12010.000	Horn2	H	54.0	39.3	34.7	36.4	9.5	49.1	74	24.9	Peak
									12.7	54	41.3	Average
5	4884.0000	Horn1	V	64.5	33.4	46.7	0.0	0.0	51.2	54.0	2.8	Peak
6	4884.0000	Horn1	H	63.0	33.5	46.7	0.0	0.0	49.8	54.0	4.2	Peak
7	7326.0000	Horn1	V	61.7	36.5	48.4	36.4	0.0	54.7	74.0	19.3	Peak
									18.3	54.0	35.7	Average
8	7326.0000	Horn1	H	62.0	36.7	48.4	36.4	0.0	55.3	74.0	18.7	Peak
									18.9	54.0	35.1	Average
9	12210.000	Horn2	V	52.0	39.5	34.7	36.4	9.5	47.3	74	26.7	Peak
									10.9	54	43.1	Average
10	12210.000	Horn2	H	50.8	39.3	34.7	36.4	9.5	45.9	74	28.1	Peak
									9.5	54	44.5	Average
11	4962.0000	Horn1	V	64.8	33.4	46.6	0.0	0.0	8.4	51.7	54.0	Peak
12	4962.0000	Horn1	H	63.5	33.5	46.6	0.0	0.0	8.4	50.4	54.0	Peak
13	7443.0000	Horn1	V	62.3	36.5	43.3	36.4	0.0	55.6	74.0	18.4	Peak
									19.2	54.0	34.8	Average
14	7443.0000	Horn1	H	61.5	36.7	43.3	36.4	0.0	55.0	74.0	19.0	Peak
									18.6	54.0	35.4	Average
15	12405.000	Horn2	V	52.3	39.4	34.7	36.4	9.5	47.5	74	26.5	Peak
									11.1	54	42.9	Average
16	12405.000	Horn2	H	50.8	39.2	34.7	36.4	9.5	45.8	74	28.2	Peak
									9.4	54	44.6	Average

Note 1: Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole

Duty Cycle:



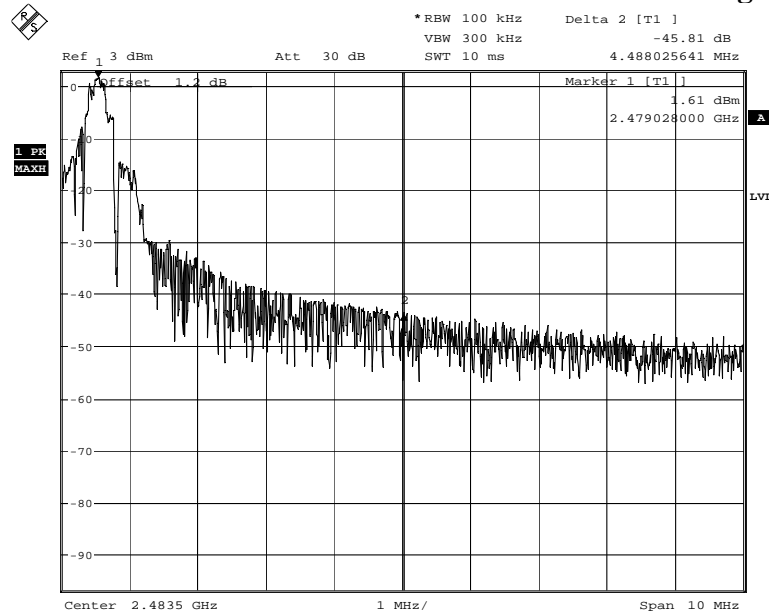
Dwell time
 Date: 25.OCT.2006 09:30:19



On-time in 100msec
 Date: 25.OCT.2006 09:55:18

Duty Cycle Correction = $20\log((10 \times 0.1506)/100) = -36.4\text{dB}$

Delta Marker Measurement for 2.4835MHz Band Edge



Upper Bandedge - Hopping On
 Date: 25.OCT.2006 08:57:20

Measured Field Strength for High Channel in 1MHz RBW = 95.2dBuV/m

Delta Marker = -45.8dB

Therefore, Peak Field Strength = 95.2dBuV/m – 45.8dB = 49.4dBuV/m

Peak Limit = 74dBuV/m

Average Limit = 54dBuV/m

Clause 15.247(a)(1) Frequency hopping systems

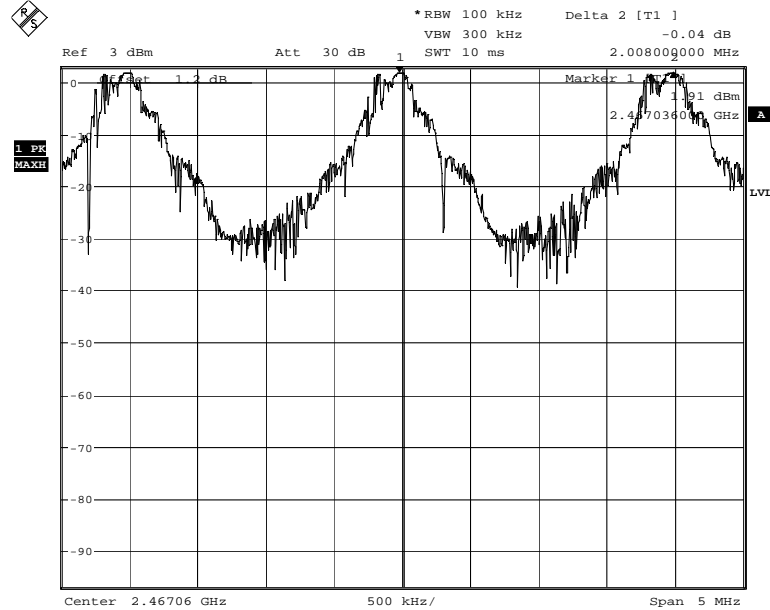
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Test Conditions:

Sample Number:	2	Temperature (°C):	23
Date:	October 25, 2006	Humidity (%):	37
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	OATS

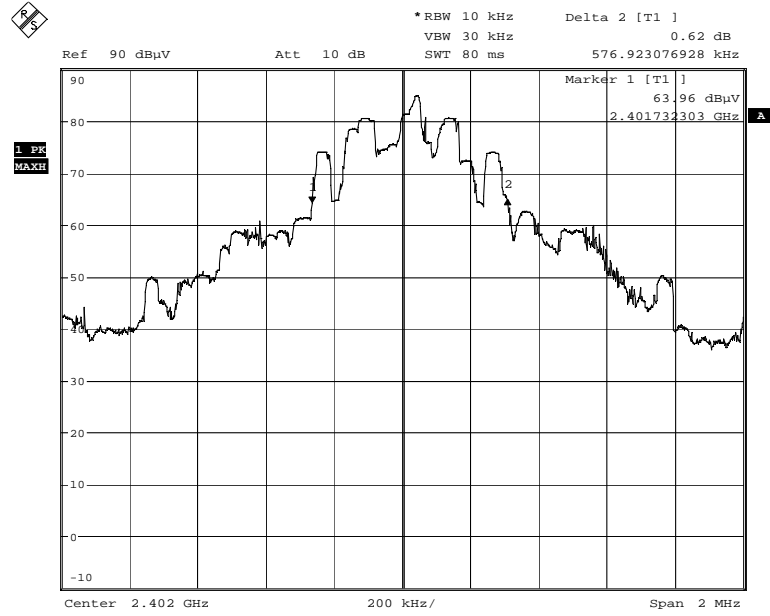
Test Results:

Channel Spacing:



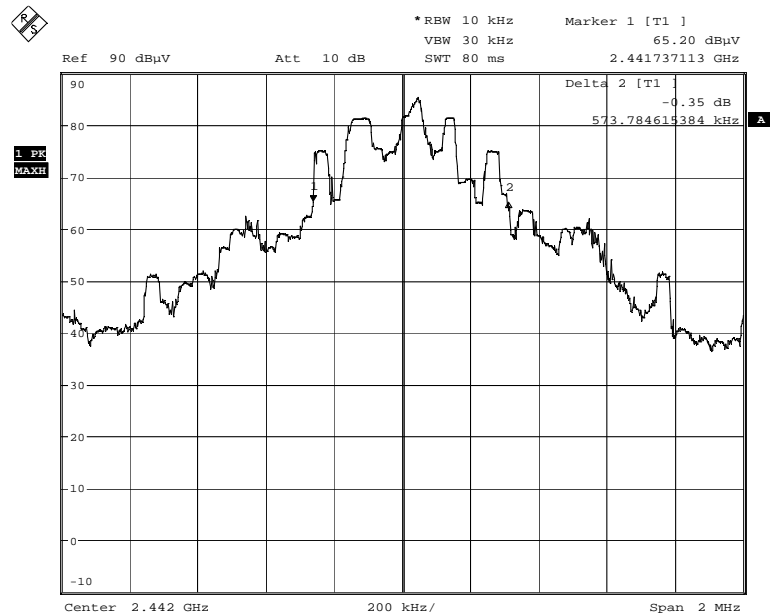
Channel Spacing
 Date: 25.OCT.2006 09:00:03

20dB Bandwidth



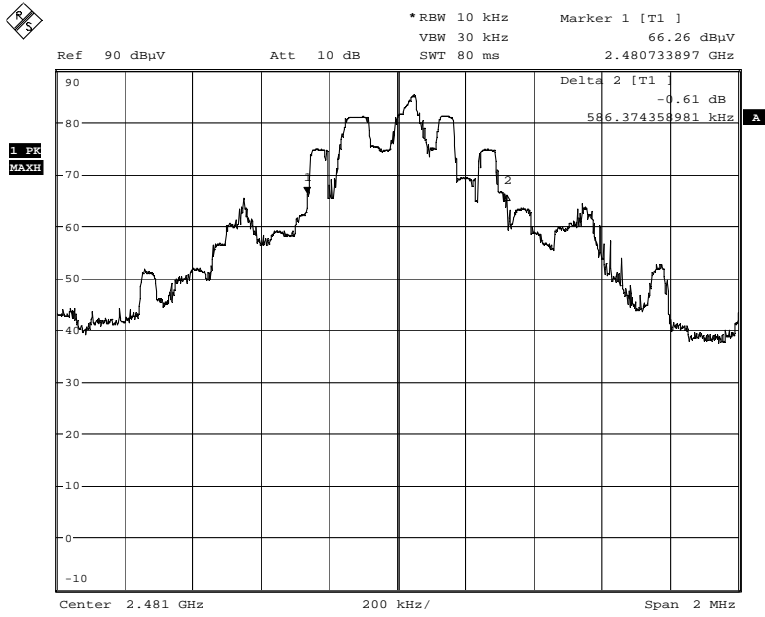
20dB bandwidth - Low Channel

Date: 25.OCT.2006 13:17:46



20dB bandwidth - Mid Channel

Date: 25.OCT.2006 13:06:52



20dB bandwidth - High Channel
Date: 25.OCT.2006 13:04:58

Clause 15.247(a)(1)(iii) Frequency hopping systems operating in the 2400-2483.5 MHz band

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used

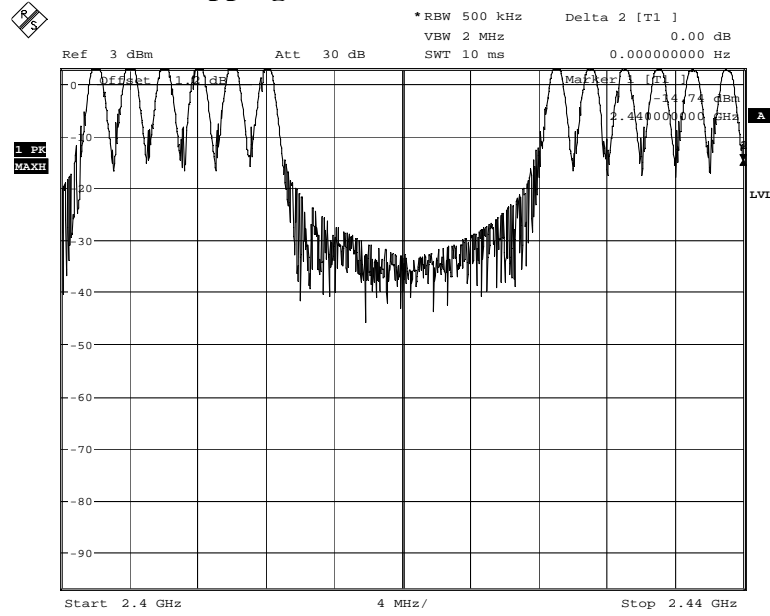
Test Conditions:

Sample Number:	2	Temperature (°C):	23
Date:	October 25, 2006	Humidity (%):	37
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	OATS

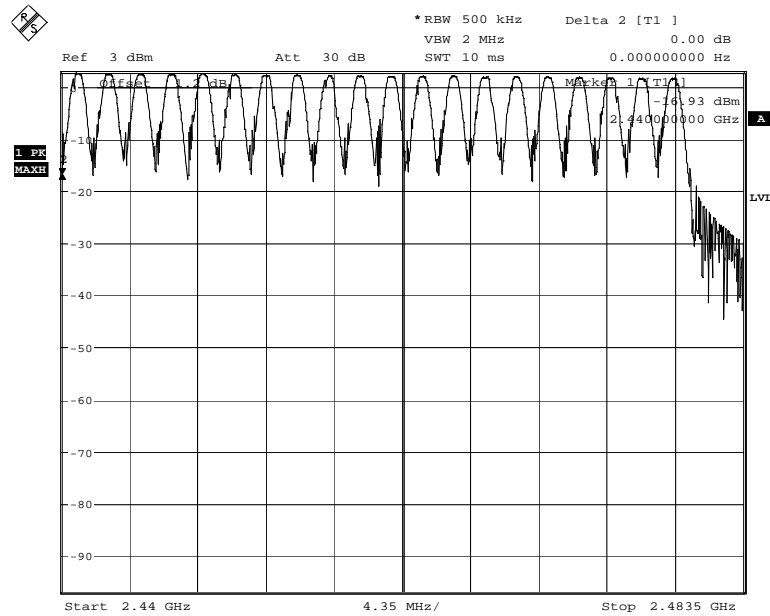
Test Results:

Number of Hopping Channels = 32
 Time of Occupancy = 96.4msec in 12.7 seconds

Number of Hopping Channels:

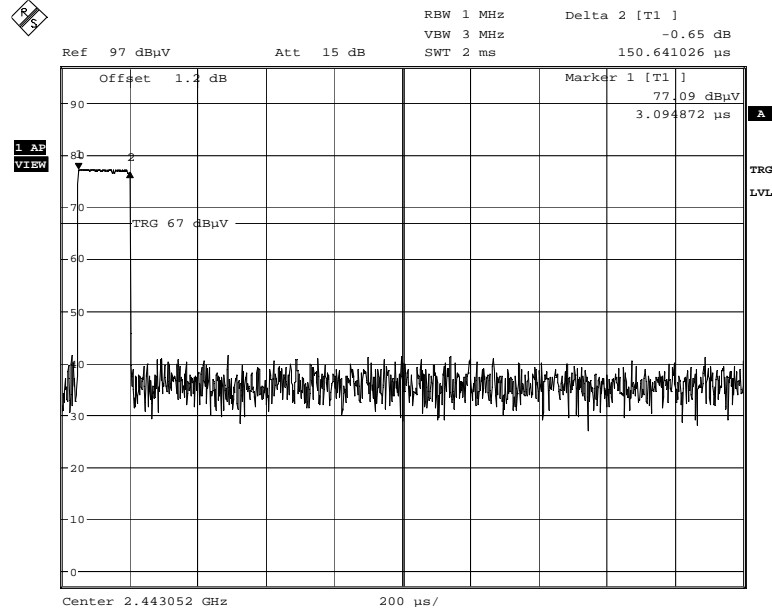


Number of Hopping Channels
Date: 25.OCT.2006 09:05:56

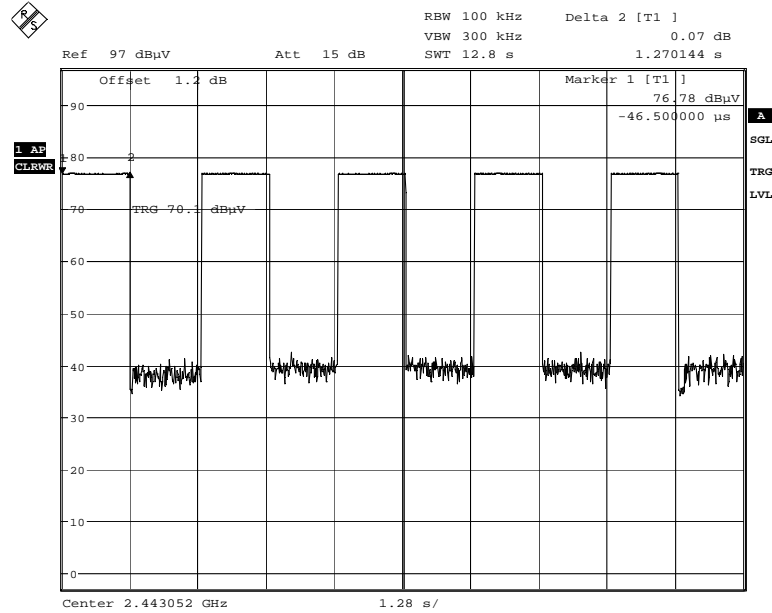


Number of Hopping Channels
Date: 25.OCT.2006 09:07:52

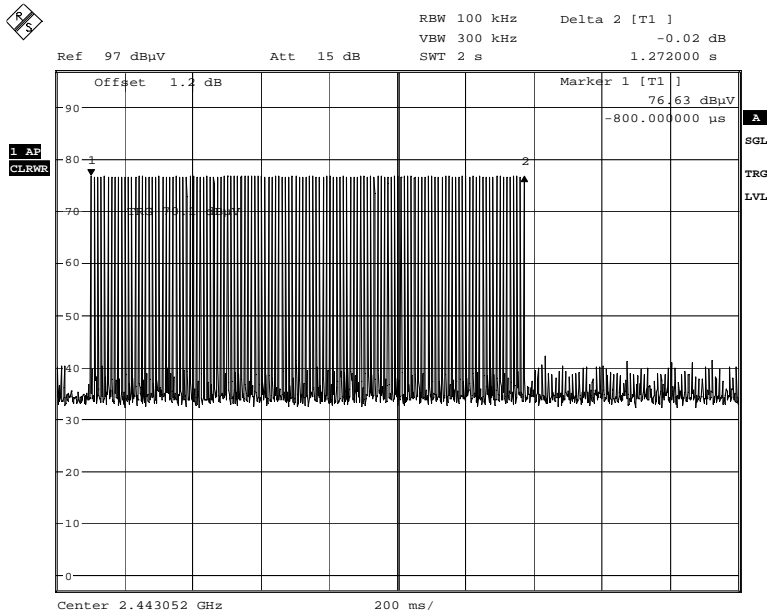
Time of Occupancy:



Dwell time
Date: 25.OCT.2006 09:30:19



Hits
Date: 25.OCT.2006 09:38:35



Hits

Date: 25.OCT.2006 09:41:10

Time of Occupancy = (128 hits per 1.27seconds) x (5 packets in 12.8seconds) x (0.1506msec dwell time) = 96.4msec

Clause 15.247(b)(1) Maximum peak output power of Frequency hopping systems operating in the 2400-2483.5 MHz band and 5725-5850 MHz band

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

Test Conditions:

Sample Number:	2	Temperature (°C):	23
Date:	October 25, 2006	Humidity (%):	37
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	OATS

Test Results:

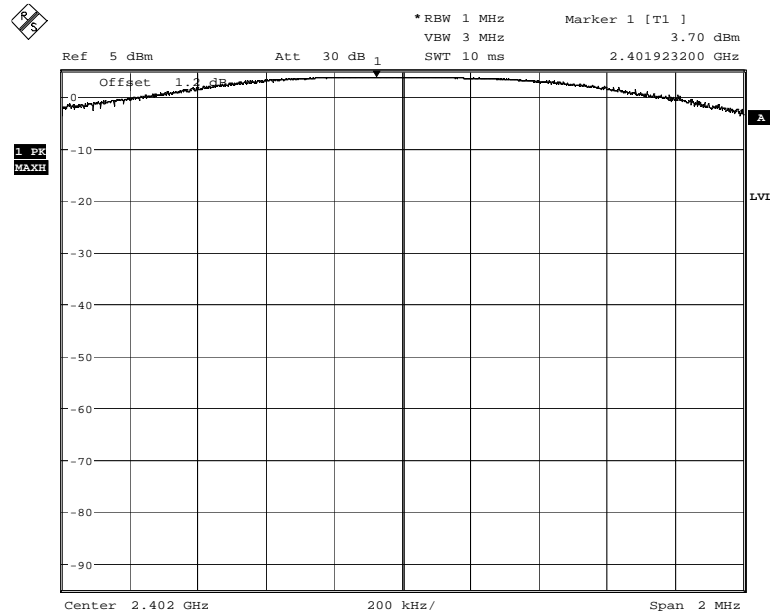
Conducted Output Power:

The output power was measured at +/-15% of the supply voltage and found that there was no change.

Note: The EUT was modified by the manufacturer to perform conducted measurements.

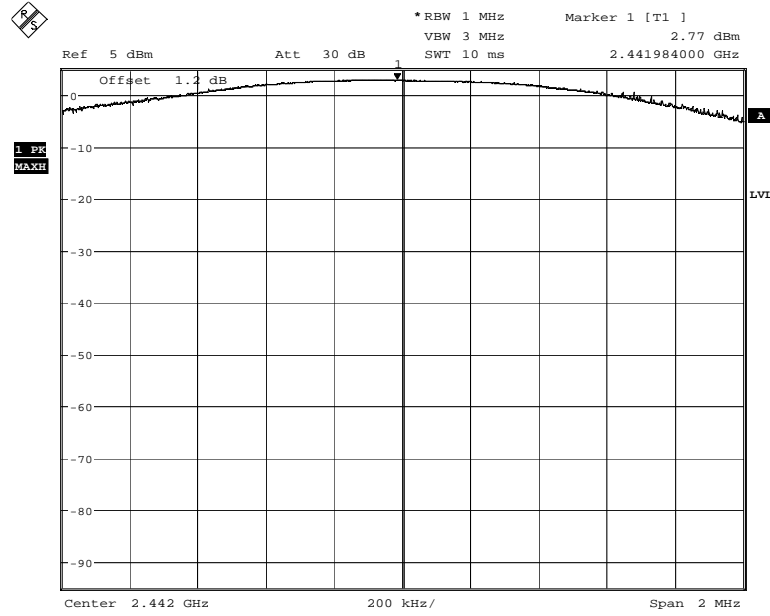
Channel Range	Measured Output Power (W)
Low	0.002
Mid	0.002
High	0.002

Low Channel:



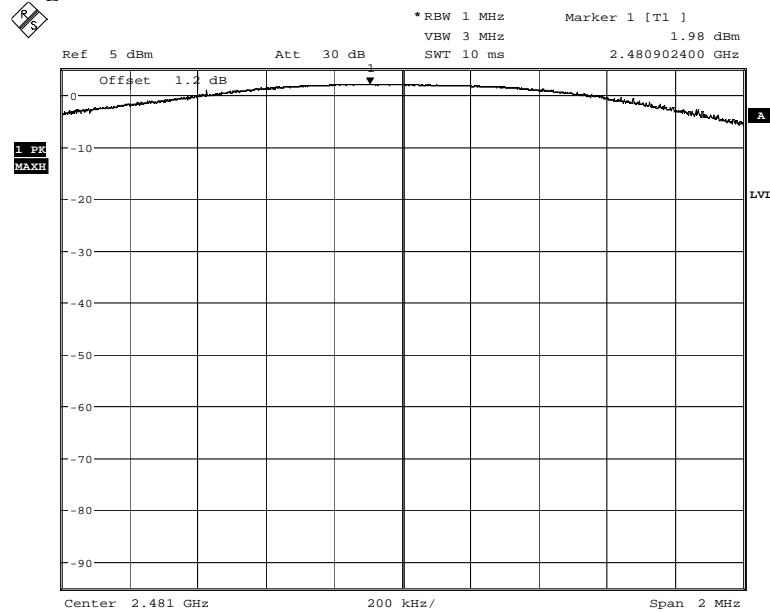
Peak Power - Low Channel
Date: 25.OCT.2006 10:54:52

Mid Channel:



Peak Power - Mid Channel
Date: 25.OCT.2006 11:12:49

High Channel:



Peak Power - High Channel
Date: 25.OCT.2006 11:10:53

Clause 15.247(b)(4) Maximum peak output power

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Conditions:

Sample Number:	1	Temperature (°C):	10
Date:	October 25, 2006	Humidity (%):	66
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	OATS

Test Results:

Radiated Output Power:

Ch.	Freq.	Pol V/H	ANT.	Rx dBuV	Cable loss dB	Ant Factor dB/m	F.S. dBuV/m
low	2402.0000	V	Horn1	64.8	4.9	28.8	98.5
	2402.0000	H	Horn1	60.0	4.9	28.8	93.7
mid	2442.0000	V	Horn1	60.0	5.0	28.8	93.8
	2442.0000	H	Horn1	60.2	5.0	28.8	94.0
hi	2481.0000	V	Horn1	61.3	5.1	28.8	95.2
	2481.0000	H	Horn1	59.3	5.1	28.8	93.2

Measured value (V/m) = $10^{(FS/20)}$ = 0.084139514V/m

Output Power (W) = $\frac{E^2 R^2}{30G}$ = 0.002W(3.27dBm)

E = Measured Value (V/m)

R = Measurement distance

G = Antenna Gain (numeric) (assumed to be 1 to get EIRP)

Additional Observations:

All Measurements were performed at 3m using a 1MHz RBW/VBW.

Clause 15.247(d) Radiated Emissions Not in Restricted Bands

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

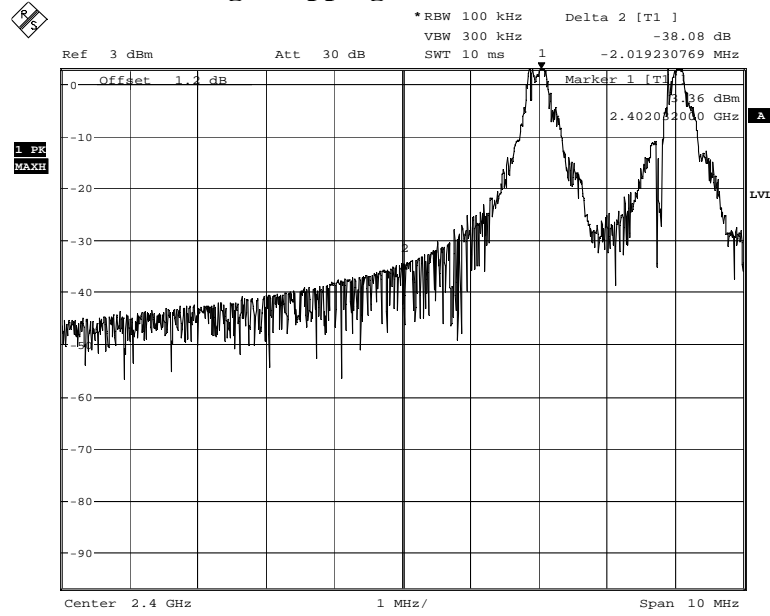
Test Conditions:

Sample Number:	1/2	Temperature (°C):	10
Date:	October 25, 2006	Humidity (%):	66
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	OATS

Test Results:

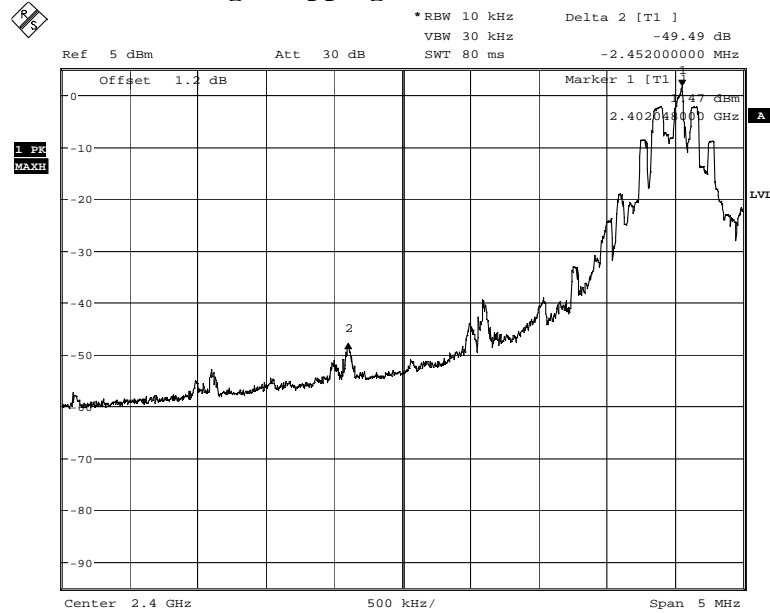
See Attached Table and Plots.

Lower Band Edge Hopping On:



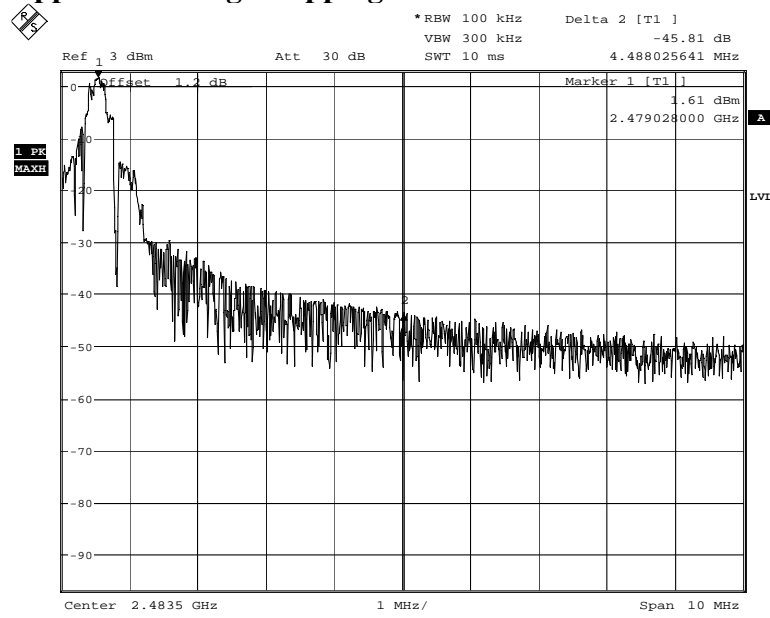
Lower Bandedge - Hopping On
Date: 25.OCT.2006 08:54:56

Lower Band Edge Hopping Off:



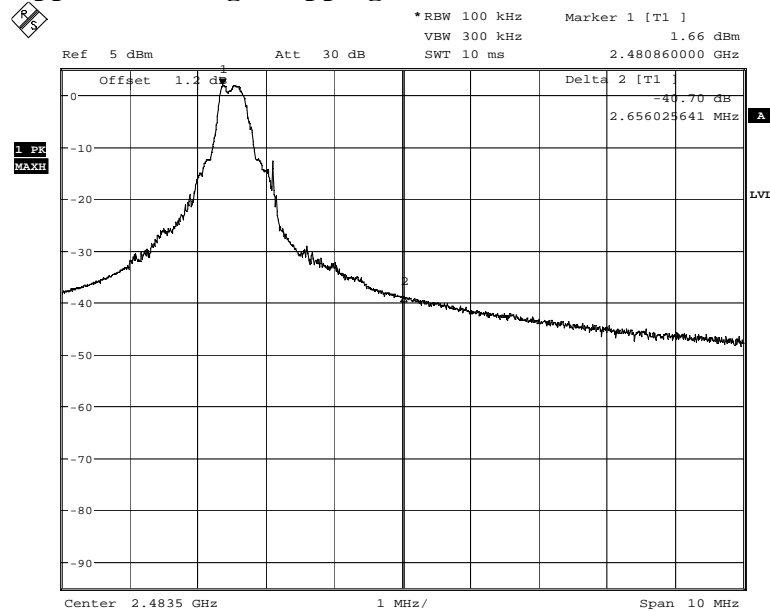
Lower Bandedge - Hopping off
Date: 25.OCT.2006 10:56:39

Upper Band Edge Hopping On:



Upper Bandedge - Hopping On
Date: 25.OCT.2006 08:57:20

Upper Band Edge Hopping Off:

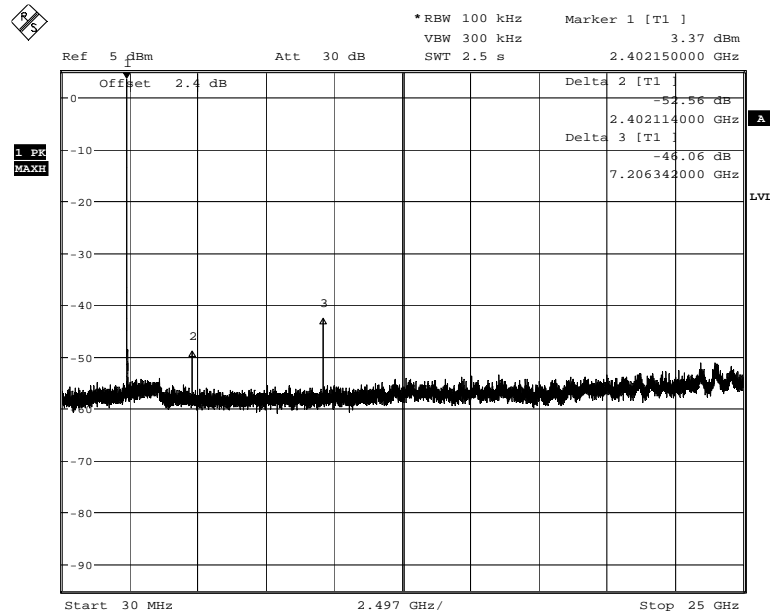


Upper Bandedge - Hopping off
Date: 25.OCT.2006 11:09:35

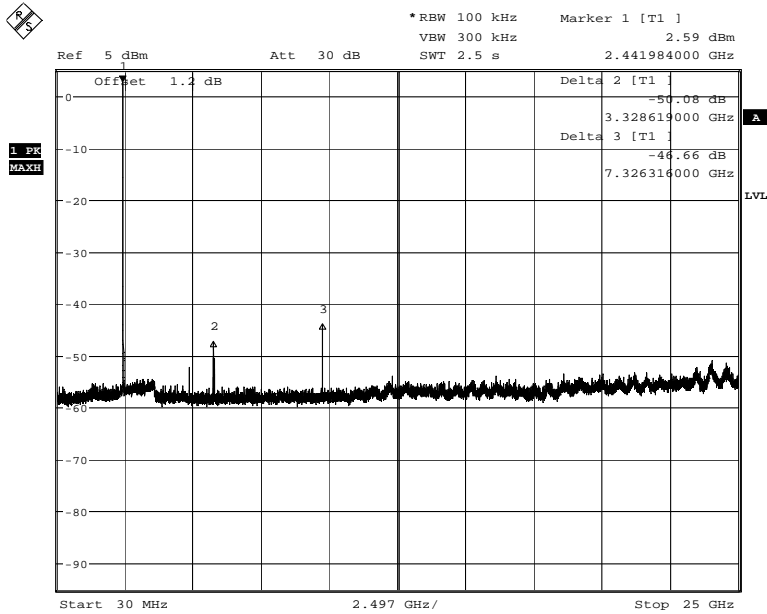
Conducted Emissions

Harmonic	Level (dBm)		
	Low Channel	Mid Channel	High Channel
Fundamental	3.43	2.45	1.64
2 nd	-47.95	-50.03	-51.63
3 rd	-57.69	-58.55	-60.74
4 th	-40.53	-42.33	-42.94
5 th	—	-63.43	-62.81
6 th	-62.20	—	-67.39
7 th	—	—	—
8 th	—	—	—
9 th	—	—	—
10 th	—	—	—

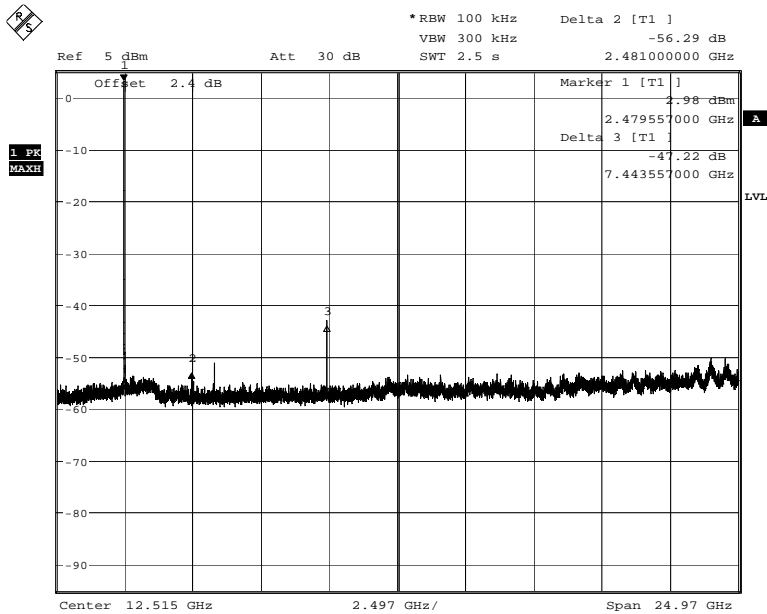
All measurements in table are from zoom plots on the harmonics to show compliance with the 20dBc requirements.



Conducted emissions - low Channel
 Date: 25.OCT.2006 11:47:21



Conducted emissions - Mid Channel
 Date: 25.OCT.2006 11:17:48



Conducted emissions - High Channel
 Date: 25.OCT.2006 12:52:58

Radiated Emissions

Frequency (MHz)	Antenna	Polarity	RCVD Signal (dBuV)	Ant. Factor (dB)	Amp. Gain/cable loss (dB)	Distance Corr. (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2402.0000	Horn1	V	64.8	28.8	4.9	0.0	98.5		
2402.0000	Horn1	H	60.0	28.8	4.9	0.0	93.7		
7206.0000	Horn1	V	67.7	36.5	44.0	0.0	60.1	78.5	18.4
7206.0000	Horn1	H	65.7	36.7	44.0	0.0	58.3	73.7	15.4
9608.000	Horn2	V	67.3	38.6	34.8	9.5	61.6	78.5	16.9
9608.000	Horn2	H	62.5	38.3	34.8	9.5	56.5	73.7	17.2
2442.0000	Horn1	V	60.0	28.8	5.0	0.0	93.8		
2442.0000	Horn1	H	60.2	28.8	5.0	0.0	94.0		
9768.000	Horn2	V	61.2	38.7	34.8	9.5	55.5	73.8	18.3
9768.000	Horn2	H	58.0	38.4	34.8	9.5	52.1	74.0	21.9
14652.000	Horn2	V	53.5	40.5	33.7	9.5	50.8	73.8	23.0
14652.000	Horn2	H	52.2	40.2	33.7	9.5	49.2	74.0	24.8
2481.0000	Horn1	V	61.3	28.8	5.1	0.0	95.2		
2481.0000	Horn1	H	59.3	28.8	5.1	0.0	93.2		
9924.000	Horn2	V	61.7	38.8	34.8	9.5	56.1	75.2	19.1
9924.000	Horn2	H	58.3	38.5	34.8	9.5	52.5	73.2	20.7
14886.000	Horn2	V	52.7	39.7	33.7	9.5	49.2	75.2	26.0
14886.000	Horn2	H	51.7	39.5	33.7	9.5	47.9	73.2	25.3

Note 1: Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole

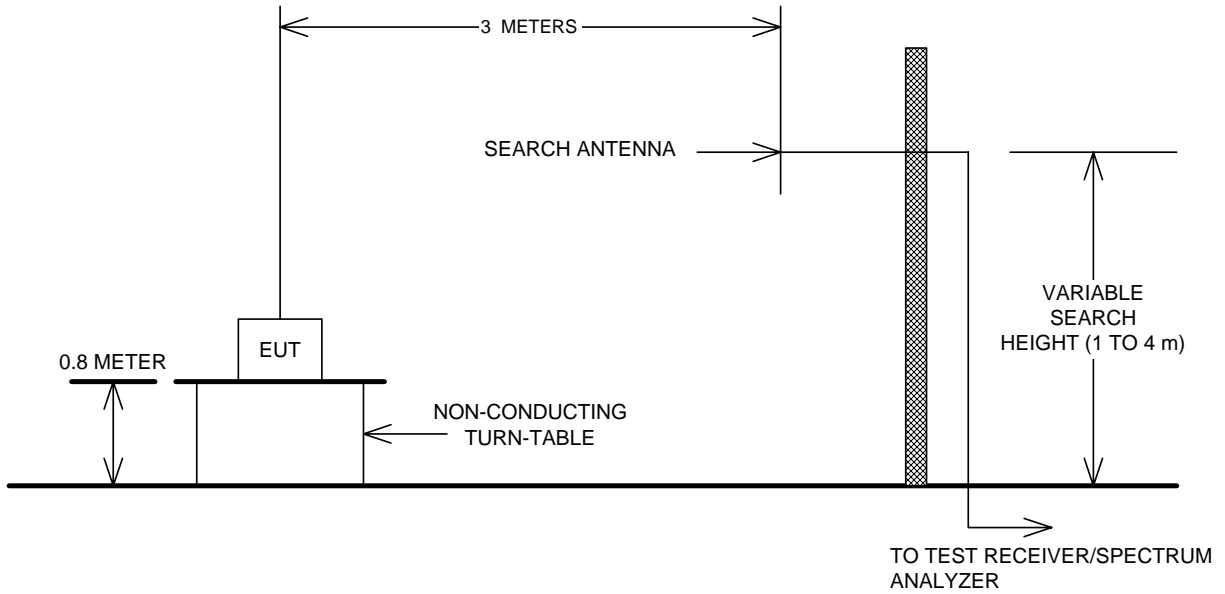
Additional Observations:

All measurements were performed using a Peak detector with 100kHz RBW/VBW.

Measurements below 8GHz were performed at 3m and measurements above 8GHz were performed at 1 meter.

Appendix D : Block Diagram of Test Setups

Test Site For Radiated Emissions



Conducted Emissions

