



**Report Number:** 

San Diego, CA 92121-1024 Phone (858) 755-5525 Fax (858) 452-1810

# **CERTIFICATION TEST REPORT**

2010 10158450 FCC

61447-1
158450
DISCUS DENTAL INC. 8550 HIGUERA ST. Culver City, CA 90232
WIRELESS FOOT PEDAL
NV
VIK-OH002
7260A-OH002
FCC Part 15 Subpart C, 15.249 IC RSS-210 Issue 8 December 2010 IC RSS-Gen Issue 3 December 2010
Nemko USA Inc. 11696 Sorrento Valley Road, Suite F San Diego, CA 92121
Alan Laudani, EMC/RF Test Engineer
October 11, 2010

25

**Total Number of Pages:** 

FCC ID: VIK-OH002 IC: 7260A-OH002

Report Number: 2010 10158450 FCC Specification: FCC Part 15 Subpart C, 15.249

# **Section1: Summary of Test Results**

#### General

#### All measurements are traceable to national standards

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 15; Subpart C and IC RSS-210. Radiated tests were conducted is 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 and IC.

The assessment summary is as follows:

**Apparatus Assessed:** Wireless Foot Pedal

Model: NV

**Specification:** FCC Part 15 Subpart C, 15.249

IC RSS-210 Issue 8 December 2010

**Date Received in Laboratory:** October 1, 2010

Compliance Status: Complies

Exclusions: None

Non-compliances: None

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## 1.1 Report Release History

REVISION	DATE	COMMENTS		
-	October 11, 2010	Prepared By:	Ferdinand Custodio	
-	October 11, 2010	Initial Release:	Alan Laudani	

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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**TESTED BY:** 

Ferdinand Custodio, EMC Test Engineer

Date: October 11, 2010

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# **Section 2: Equipment Under Test**

#### 2.1 Product Identification

The Equipment Under Test was identified as follows:

Discus Dental Inc. NV Wireless Foot Pedal





# 2.2 Samples Submitted for Assessment

The following sample of the apparatus has been submitted for type assessment:

Sample No.	Description	Serial No.
158450-1	NV WIRELESS FOOT PEDAL	N/A

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# 2.3 Theory of Operation

The NV Wireless Foot Pedal is part of the NV Microlaser™/NV Ortho™ dental diode laser system used on many different soft tissue procedures. The system is intended to be used for oral soft tissue surgery, including: sulcular debridement of diseased fibrous tissue, i.e., excision and biopsy; gingivectomy; gingivoplasty; lesion (tumor) removal; fibroma removal; tissue retraction (troughing); apththous ulcers; gingival hyperplasia (excision and recontour); crown lengthening; operculectomy; frenectomy: photocoagulation and for periodontal procedures, including: laser soft tissue curettage; laser removal of diseased, infected, inflamed, or necrosed soft tissue within the periodontal pocket; removal of highly inflamed edematous tissue affected by bacteria penetration of the pocket lining; and junctional epithelium.

The EUT is a (UL-approved) commercial foot-switch that provides hands-free ON/OFF capabilities. This switch controls initiation/termination of laser power wirelessly using 2.4GHz frequency.

## 2.4 Technical Specifications of the EUT

**Manufacturer:** Discus Dental Inc.

Operating Frequency: 2402.0 MHz to 2470.0 MHz

in the 2400-2483.5 MHz Band

Number of Operating Frequencies: 15

Rated Power: 72.8dBµV/m @ 3 meters

Modulation: GFSK

Reference Designator: 1M88F1D

Antenna Type: Trace on PCB, 0dBi gain (typ)

Antenna Connector: None

Power Source: 1.5VDC from standard AA LR6 AM3 alkaline

battery (2X wired in parallel)

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#### **Section 3: Test Conditions**

## 3.1 Specifications

The apparatus was assessed against the following specifications:

#### FCC Part 15 Subpart C, 15.249

Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5850 MHz and 24.0-24.25 GHz bands.

#### IC RSS-210 Issue 8 December 2010

Low-power Licence-exempt Radio-communication Devices (All Frequency Bands): Category I Equipment. Annex 8 - Frequency Hopping and Digital Modulation Systems Operating in the Bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

#### IC RSS-Gen Issue 3 December 2010

General Requirements and Information for the Certification of Radiocommunication Equipment

#### 3.2 Deviations From Laboratory Test Procedures

No deviations from Laboratory Test Procedure

#### 3.3 Test Environment

All tests were performed under the following environmental conditions:

Temperature range 20-23 oC Humidity range 43-60%

Pressure range 102.0 – 102.3 kPa

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# 3.4 Test Equipment

Nemko ID	Device	Manufacturer	Model	Serial Number	Cal Date	Cal Due Date
E1018	9kHz to 7GHz Spectrum Analyzer	Rohde & Schwarz	FSP7	835363/0003	1/22/2010	1/22/2011
752	Antenna, DRWG	EMCO	3115	4943	11/12/2008	11/12/2010
835	Spectrum Analyzer	Rohde & Schwarz	RHDFSEK	829058/005	7/12/2010	7/12/2011
317	Preamplifier	HP	8449A	2749A00167	5/7/2010	5/7/2011
877	Antenna, DRG Horn, .7-18GHz	AH Systems	SAS-571	688	8/16/2010	8/16/2011
114	Antenna, Bicon	EMCO	3104	2997	3/5/2010	3/5/2012
110	Antenna, LPA	Electrometrics	LPA-25	1217	1/10/2009	2/10/2011
898	EMI Receiver & filter set	HP	8546A	3625A00348	6/22/2010	6/22/2011
899	Filter Section	HP	85460A	3448A00288	6/22/2010	6/22/2011

Registration of the OATS are on file with the Federal Communications Commission, under Registration Number 90579, the VCCI under registration number R-3027, and are also registered with Industry Canada under Site Numbers 2040B-1 and 2040B-2.

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## **Section 4: Observations**

## 4.1 Modifications Performed During Assessment

No modifications were performed during assessment.

## 4.2 Record Of Technical Judgements

No technical judgements were made during the assessment.

# 4.3 EUT Parameters Affecting Compliance

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

#### 4.4 Test Deleted

No Tests were deleted from this assessment.

#### 4.5 Additional Observations

There were no additional observations made during this assessment.

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# **Section 5: Results Summary**

This section contains the following:

FCC Part 15 Subpart C: §15.249

IC RSS-210 Issue 8 December 2010 Annex A2.9

IC RSS-Gen Issue 3 December 2010

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

No: not applicable / not relevant

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

N/T Not Tested, mandatory but not assessed. (See section 4.4 Test deleted) The results contained in this section are representative of the operation of the apparatus as originally submitted.

#### 5.1 Test Results

Part 15C	Industry Canada	Test Description	Required	Result
15.207 (a)	RSS-Gen 7.2.4	Conducted Emission Limit	N*	
15.215(c)	RSS-Gen 4.6.3	20 dB Bandwidth	Y	Pass
15.249 (a)	RSS-Gen 4.8 & RSS-210 A2.9	Field Strength of Emissions	Υ	Pass
15.249 (d) & 15.209 (a)	RSS-Gen 4.9 & RSS-210 A2.9	Spurious Emissions Outside of the band	Y	Pass
15.249 (b)		Fixed Point-to-Point Operation	N	
15.109 (a)	RSS-Gen 4.10 & RSS-Gen 6.1	Receiver Spurious Emissions	N/T*	

N\* = EUT only employ battery power for operation and doesn't operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

N/T\* = EUT does not have a separate receive mode. Configured to transmit only.

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# **Appendix A: Test Results**

## Section 15.215(c) – Occupied Bandwidth

(c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

## RSS-Gen Section 4.6.1 – Occupied Bandwidth

When an occupied bandwidth value is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured.

The transmitter shall be operated at its maximum carrier power measured under normal test conditions.

The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual.

The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded.

The span between the two recorded frequencies is the occupied bandwidth.

#### **Test Conditions:**

Sample Number:	NV	Temperature:	23°C
Date:	October 7, 2010	Humidity:	43 %
Modification State:	Low ,Mid and High Channel	Tester:	FSCustodio
		Laboratory:	Nemko

#### **Test Results:**

See attached plots

#### Additional Observations:

- Span is wide enough to capture the channel transmission
- RBW is 1% of the span or worst case (i.e. 5MHz span, SA RBW limited to 30kHz and 100kHz only, 100kHz RBW used)

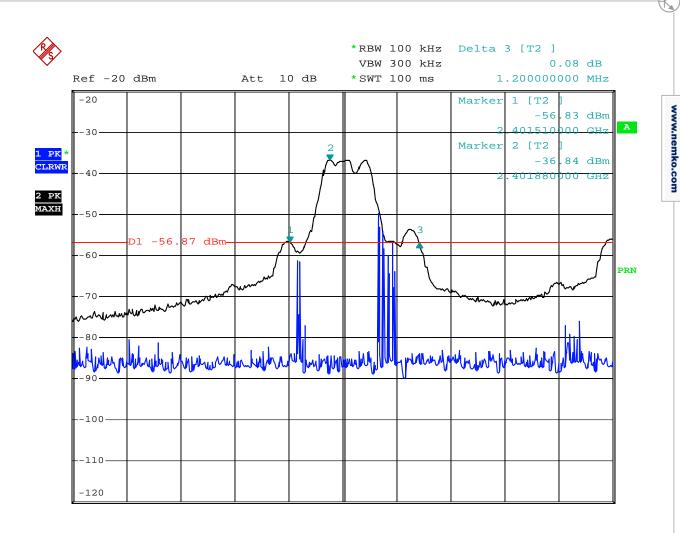


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- VBW is 3X RBW
- Sweep is auto
- Detector is Peak
- Trace is Max Hold
- A peak output max hold reading was taken; a display line was drawn 20 dB lower than peak level. The 20 dB bandwidth was determined from where the channel output spectrum intersected the display line.
- Per Industry Canada requirement, another measurement was made using the built-in OBW measuring feature of the spectrum analyzer with power BW of 99%.
- Observed maximum occupied BW is 1.88 MHz (20dB BW High Channel).
- 2402 MHz 0.94 MHz = 2401.06 MHz (within the frequency band)
- 2470 MHz + 0.94 MHz = 2470.94 MHz (within the frequency band)

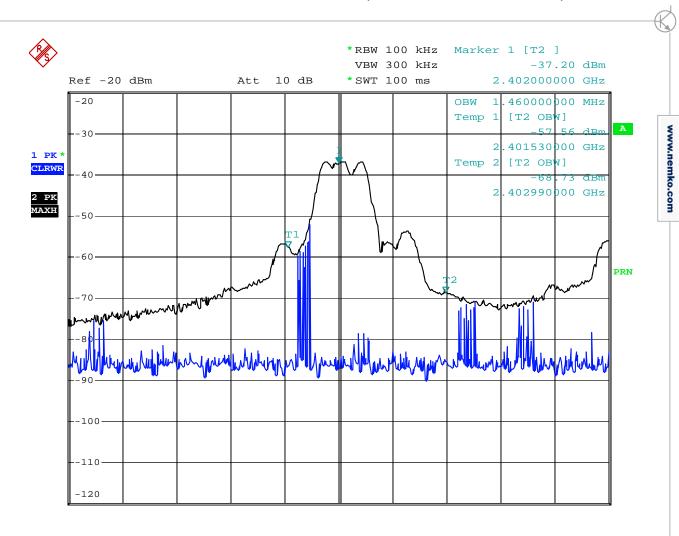
Report Number: 2010 10158450 FCC Specification: FCC Part 15 Subpart C, 15.249



Date: 7.OCT.2010 10:07:38

Low Channel (2402MHz) 20dB Occupied Bandwidth is 1.2MHz

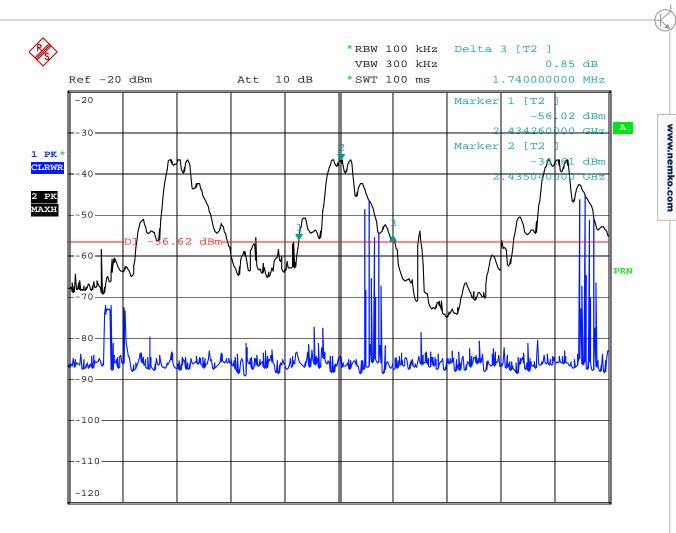
Report Number: 2010 10158450 FCC Specification: FCC Part 15 Subpart C, 15.249



Date: 7.OCT.2010 10:14:27

Low Channel (2402MHz) 99% Occupied Bandwidth is 1.46MHz

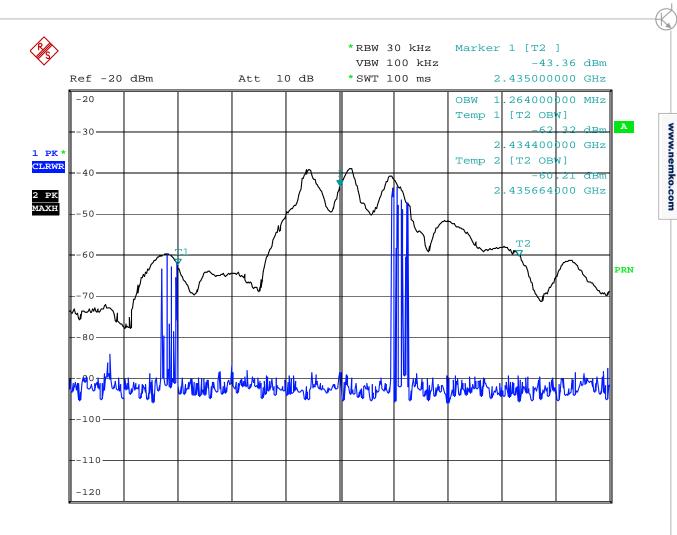
Report Number: 2010 10158450 FCC Specification: FCC Part 15 Subpart C, 15.249



Date: 7.OCT.2010 10:40:57

Mid Channel (2435MHz) 20dB Occupied Bandwidth is 1.74MHz

Report Number: 2010 10158450 FCC Specification: FCC Part 15 Subpart C, 15.249

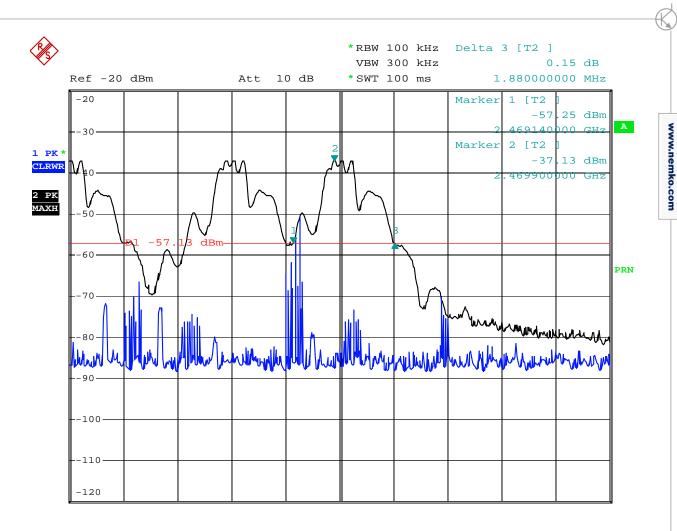


Date: 7.OCT.2010 10:18:28

# Mid Channel (2435MHz) 99% Occupied Bandwidth is 1.264MHz

Test Notes: Span and RBW were adjusted to prevent spectrum analyzer built in OBW measuring feature from incorporating signals from adjacent channels.

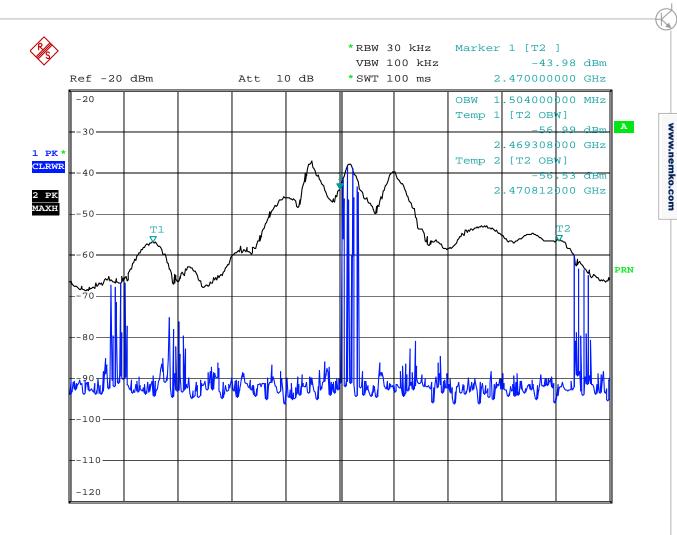
Report Number: 2010 10158450 FCC Specification: FCC Part 15 Subpart C, 15.249



Date: 7.OCT.2010 10:42:43

High Channel (2470MHz) 20dB Occupied Bandwidth is 1.88MHz

Report Number: 2010 10158450 FCC Specification: FCC Part 15 Subpart C, 15.249



Date: 7.OCT.2010 10:44:32

# High Channel (2470MHz) 99% Occupied Bandwidth is 1.504MHz

Test Notes: Span and RBW were adjusted to prevent spectrum analyzer built in OBW measuring feature from incorporating signals from adjacent channel.

Report Number: 2010 10158450 FCC Specification: FCC Part 15 Subpart C, 15.249



# Section 15.249(a) - Field Strength of Emissions

(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)	AA AA AA
902–928 MHz	50	500	q
2400–2483.5 MHz	50	500	2
5725–5875 MHz	50	500	Č
24.0–24.25 GHz	250	2500	

# **RSS-210 A2.9 – Field Strength of Emissions**

This section provides standards for low-power devices that can be used for any application provided the following conditions are met:

(a) The field strengths measured at 3 metres shall not exceed the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (millivolts/meter)
902–928 MHz	50 <sup>(Note 1)</sup>	0.5
2400–2483.5 MHz	50 <sup>(Note 1)</sup>	0.5
5725–5875 MHz	50 <sup>(Note 1)</sup>	0.5

Note 1: Equivalent to 0.75 mW e.i.r.p.

(b) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to Table 2 limits, whichever is the less stringent.

Section 4.4 of RSS-Gen (Pulsed Operation) does not apply to CISPR measurement for the band 902-928 MHz.

#### **Test Conditions:**

Sample Number:	NV	Temperature:	20°C
Date:	October 6, 2010	Humidity:	60 %
Modification State:	Hopping	Tester:	FSCustodio
		Laboratory:	SOATS

#### Test Results:

See attached plots.

#### **Additional Observations:**

Fresh batteries was used during assessment.

Specification: FCC Part 15 Subpart C, 15.249

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# Nemko USA, Inc.

FCC ID: VIK-OH002 IC: 7260A-OH002

All measurements were performed using a peak detector.

- RBW is 1MHz while VBW is 3MHz.
- Spectrum was investigated up to 24.70GHz
- There are no emissions found after the second harmonic
- Average data are calculated from Peak measurements plus Duty Cycle Correction Factor (DCCF).

# Sample Computation (Radiated Emissions Data Sheet):

Correction factor

@ 2402MHz =  $36.88 dB\mu V/m$ 

= Antenna factor + Cable loss - Preamp gain

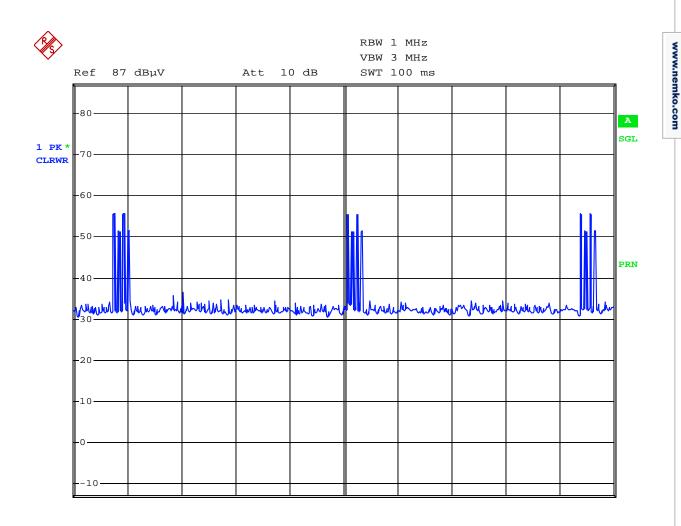
= 29.18 + 7.7 - 0

Corrected reading = Max. reading + Correction factor

= 35.9 + 36.88 = 72.78 dBµV/m

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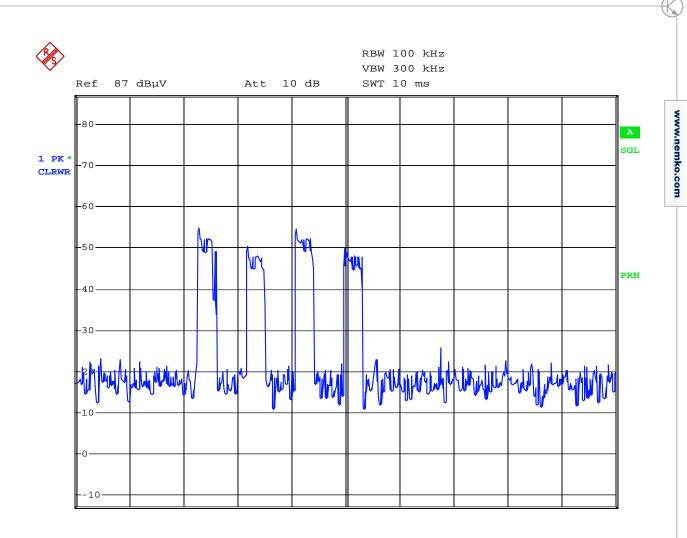
# **Duty Cycle Correction Factor Calculations**



Date: 6.OCT.2010 12:55:08

Three (3) set of data packets in 100ms sweep

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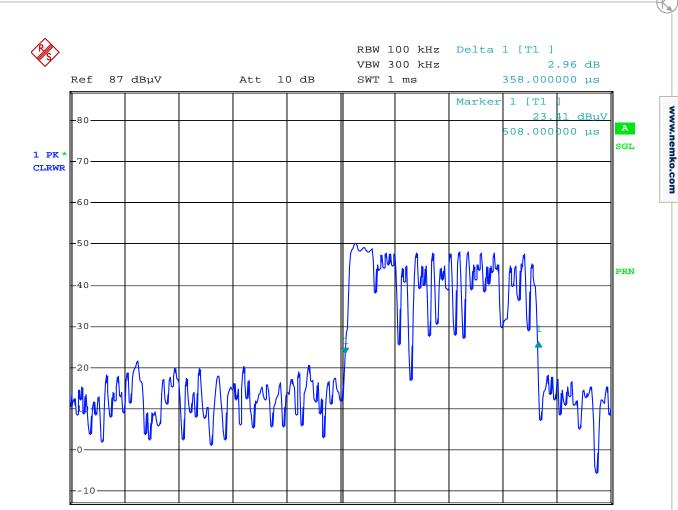


Date: 6.OCT.2010 12:57:24

Four (4) transmissions in one data packet

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Date: 6.OCT.2010 12:59:08

# Each data packet is 358µS long

**Duty Cycle** = 0.358ms x 12

= 4.296 ms/100 ms

= 0.043

**DCCF** =  $20 \log (0.04296)$ 

= -27.34; limited to -20 dB

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4870.0

7305.0

4940.0

7410.0

45.0

43.1

44.5

42.5

45.5

42.9

45.8

44.1

BL

BL

BL

BL

Р

Р

Р

1.6

1.6

1.6

1.6

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Fundamental: RBW = 3MHz, VBW = 10 MHz

Harmonics of the fundamental: RBW = 1MHz, VBW = 3 MHz

					Radiat	ed Emis	sions D	ata			
Job # : NEX #:		61447-1 158450			Date : Time : Staff :	10/6/2010 12:30PM FSC	<del>-</del> -	Page	1	of_	1
Client N	ame :	Discus De	ental Inc				-	<b>EUT Vol</b>	tage :		Battery
<b>EUT Na</b>	me :	Wireless	Foot Pe	dal			-	<b>EUT Fre</b>	quency	:	
EUT Mo	del #:	NV					•	Phase:			
EUT Se	rial # :	N/A					•	NOATS			
EUT Co	nfig. :	Continuou	ıs transr	nit			-	SOATS			X
							_	Distance	< 1000	0 MHz:	3 m
							_	Distance	> 1000	0 MHz:	3 m
Specific	ation :	CFR47 Pa	art 15, S	ubpart E	3, Class	В	_				
Loop An		NA								Quasi-Pe	eak RBW: 120 kHz
Bicon A	nt.#:	NA			np. (°C):		_				Video Bandwidth 300 kHz
Log Ant		NA			lity (%):		_			Peak	RBW: 1 MHz
DRG An	ıt. #	877				E1018/835	<u> </u>				Video Bandwidth 3 MHz
Cable LI		NA			isplay #:		_			Average	= Peak -DCCF
Cable H			Quasi-F			E1018/835	<u> </u>				
Preamp		NA	i	Prese	lector #:	NA	-				
Preamp	HF#	317			DCCF :	20	_				
Meas.	Meter	Meter	Det.	EUT	Ant.	Max.	Corrected	Spec.	CR/SL	Pass	
Freq.	Reading	Reading	DCt.	Side	Height	Reading	Reading	limit	Diff.	Fail	
(MHz)	Vertical	Horizontal		F/L/R/B		(dBµV)		(dBµV/m)		""	Comment
, ,			,						,		
2402.0	52.9	55.9	Р	BL	1.6	55.9	92.8	114.0		_	
2402.0	32.9	35.9	Α	BL	1.6		32.0	114.0	-21.2	Pass	
						35.9	72.8	94.0	-21.2 -21.2	Pass	
2435.0	50.6				1.0	35.9	0				
0.40= 0		54.1	Р	BL	1.6	35.9 54.1	0				
2435.0	30.6	54.1 34.1	P A	BL BL			72.8	94.0	-21.2	Pass	
2435.0		_			1.6	54.1	72.8	94.0	-21.2 -23.0	Pass	
2435.0		_			1.6	54.1	72.8	94.0	-21.2 -23.0	Pass	
	30.6	34.1	A	BL	1.6 1.6	54.1 34.1	72.8 91.0 71.0	94.0 114.0 94.0	-21.2 -23.0 -23.0	Pass Pass Pass	
2470.0	30.6 52.6	34.1 54.9	A P	BL BL	1.6 1.6	54.1 34.1 54.9	72.8 91.0 71.0 91.8	94.0 114.0 94.0	-21.2 -23.0 -23.0 -22.2	Pass Pass Pass Pass	
2470.0 2470.0 2400.0	30.6 52.6	34.1 54.9	A P	BL BL	1.6 1.6	54.1 34.1 54.9	72.8 91.0 71.0 91.8	94.0 114.0 94.0	-21.2 -23.0 -23.0 -22.2	Pass Pass Pass Pass	Delta Marker Method
2470.0 2470.0	30.6 52.6 32.6	34.1 54.9 34.9	A P A	BL BL BL	1.6 1.6 1.6	54.1 34.1 54.9 34.9	72.8 91.0 71.0 91.8 71.8	94.0 114.0 94.0 114.0 94.0	-21.2 -23.0 -23.0 -22.2 -22.2	Pass Pass Pass Pass Pass	Delta Marker Method
2470.0 2470.0 2400.0 2400.0	30.6 52.6 32.6 47.9 27.9	34.1 54.9 34.9 50.9 30.9	P A	BL BL BL BR BR	1.6 1.6 1.6 1.6 2.0 2.0	54.1 34.1 54.9 34.9 50.9 30.9	91.0 71.0 91.8 71.8 54.6 34.6	94.0 114.0 94.0 114.0 94.0 74.0 54.0	-21.2 -23.0 -23.0 -22.2 -22.2 -19.4 -19.4	Pass Pass Pass Pass Pass Pass Pass	Delta Marker Method
2470.0 2470.0 2400.0 2400.0 2483.5	30.6 52.6 32.6 47.9 27.9 48.5	34.1 54.9 34.9 50.9 30.9	P A P	BL BL BL BR BR	1.6 1.6 1.6 2.0 2.0	54.1 34.1 54.9 34.9 50.9 30.9 56.1	91.0 71.0 91.8 71.8 71.8 54.6 34.6	94.0 114.0 94.0 114.0 94.0 74.0 54.0	-21.2 -23.0 -23.0 -22.2 -22.2 -19.4 -19.4	Pass Pass Pass Pass Pass Pass Pass Pass	Delta Marker Method
2470.0 2470.0 2400.0 2400.0	30.6 52.6 32.6 47.9 27.9	34.1 54.9 34.9 50.9 30.9	P A	BL BL BL BR BR	1.6 1.6 1.6 1.6 2.0 2.0	54.1 34.1 54.9 34.9 50.9 30.9	91.0 71.0 91.8 71.8 54.6 34.6	94.0 114.0 94.0 114.0 94.0 74.0 54.0	-21.2 -23.0 -23.0 -22.2 -22.2 -19.4 -19.4	Pass Pass Pass Pass Pass Pass Pass	Delta Marker Method
2470.0 2470.0 2400.0 2400.0 2483.5 2483.5	30.6 52.6 32.6 47.9 27.9 48.5 28.5	34.1 54.9 34.9 50.9 30.9 56.1 36.1	P A P A	BL BL BR BR BL BL	1.6 1.6 1.6 1.6 2.0 2.0 1.6	54.1 34.1 54.9 34.9 50.9 30.9 56.1 36.1	91.0 71.0 91.8 71.8 71.8 54.6 34.6 59.7 39.7	94.0 114.0 94.0 114.0 94.0 74.0 54.0 74.0 54.0	-21.2 -23.0 -23.0 -22.2 -22.2 -19.4 -19.4 -14.3 -14.3	Pass Pass Pass Pass Pass Pass Pass Pass	Delta Marker Method
2470.0 2470.0 2400.0 2400.0 2483.5 2483.5 4804.0	30.6 52.6 32.6 47.9 27.9 48.5 28.5	34.1 54.9 34.9 50.9 30.9 56.1 36.1 49.2	P A P A P	BL BL BR BR BR BR BL BL	1.6 1.6 1.6 1.6 2.0 2.0 1.6 1.6	54.1 34.1 54.9 34.9 50.9 30.9 56.1 36.1	91.0 71.0 91.8 71.8 71.8 54.6 34.6 59.7 39.7	94.0 114.0 94.0 114.0 94.0 74.0 54.0 74.0 54.0	-21.2 -23.0 -23.0 -22.2 -22.2 -19.4 -19.4 -14.3 -14.3	Pass Pass Pass Pass Pass Pass Pass Pass	Delta Marker Method
2470.0 2470.0 2400.0 2400.0 2483.5 2483.5 4804.0 4804.0	30.6 52.6 32.6 47.9 27.9 48.5 28.5 46.7 26.7	34.1 54.9 34.9 50.9 30.9 56.1 36.1 49.2 29.2	P A P A A	BL BL BR BR BL BL BL BL	1.6 1.6 1.6 1.6 2.0 2.0 1.6 1.6 1.6	54.1 34.1 54.9 34.9 50.9 30.9 56.1 36.1 49.2 29.2	91.0 71.0 91.8 71.8 71.8 54.6 34.6 59.7 39.7	94.0 114.0 94.0 114.0 94.0 74.0 54.0 74.0 54.0 74.0 54.0	-21.2 -23.0 -23.0 -22.2 -22.2 -19.4 -19.4 -14.3 -14.3 -12.6 -12.6	Pass Pass Pass Pass Pass Pass Pass Pass	
2470.0 2470.0 2400.0 2400.0 2483.5 2483.5 4804.0	30.6 52.6 32.6 47.9 27.9 48.5 28.5	34.1 54.9 34.9 50.9 30.9 56.1 36.1 49.2	P A P A P	BL BL BR BR BR BR BL BL	1.6 1.6 1.6 1.6 2.0 2.0 1.6 1.6	54.1 34.1 54.9 34.9 50.9 30.9 56.1 36.1	91.0 71.0 91.8 71.8 71.8 54.6 34.6 59.7 39.7	94.0 114.0 94.0 114.0 94.0 74.0 54.0 74.0 54.0	-21.2 -23.0 -23.0 -22.2 -22.2 -19.4 -19.4 -14.3 -14.3	Pass Pass Pass Pass Pass Pass Pass Pass	Delta Marker Method  Noise floor

45.5

43.1

45.8

44.1

57.7

62.9

58.1

63.5

74.0

74.0

74.0

74.0

Pass

Pass

Pass

Pass

-16.3

-11.1

-15.9

-10.5

Noise floor

Noise floor

Noise floor

Noise floor

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Report Number: 2010 10158450 FCC Specification: FCC Part 15 Subpart C, 15.249



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## Section 15.249 (d) – Spurious Emissions Outside of the band

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

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(b) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to Table 2 limits, whichever is the less stringent.

Section 4.4 of RSS-Gen (Pulsed Operation) does not apply to CISPR measurement for the band 902-928 MHz.

#### **Test Conditions:**

Sample Number:	NV	Temperature:	20°C
Date:	October 6, 2010	Humidity:	60 %
Modification State:	Hopping	Tester:	FSCustodio
		Laboratory:	SOATS

#### **Test Results:**

No emissions found.

#### **Additional Observations:**

- Fresh batteries were used during assessment.
- All measurements below 1 GHz were performed at 3m employing a CISPR quasi-peak detector.
- Peak measurements above 1 GHz utilize a RBW of 1 MHz and a VBW of 3 MHz
- The Spectrum was searched from 30MHz to 24.7 GHz.
- There were no emissions found other than the fundamental and the second harmonic (Section 15.249(a)).