



166 South Carter, Genoa City, WI 53128

Company: Dentsply Professional
Model Tested: 761248
Report Number: 16690
Project Number: 4350

Code of Federal Regulations 47 Part 15 – Radio Frequency Devices

Subpart C – Intentional Radiators

Section 15.249

**Operation within the bands 902 - 928 MHz,
2400 – 2483.5 MHz, 5725 – 5875 MHz,
and 24.0 – 24.5 GHz**

THE FOLLOWING MEETS THE ABOVE TEST SPECIFICATION

Formal Name: MIDWEST ® RDH Freedom TM Cordless Propy System
Foot Pedal

Kind of Equipment: Transceiver

Frequency Range: 2405 - 2480 MHz

Test Configuration: Battery operated or AC Mains connected transceiver tested for intentional
radiated emissions tabletop.

Model Number(s): 761248

Model(s) Tested: 761248

Serial Number(s): 7334-POD-1-FS-0002

Date of Tests: December 14 - 21, 2010

Test Conducted For: Dentsply Professional Division
1301 Smile Way
York, PA 17404, USA

NOTICE: “This test report relates only to the items tested and must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government”. Please see the "Description of Test Sample" page listed inside of this report.

© Copyright 1983 - 2011 D.L.S. Electronic Systems, Inc.

COPYRIGHT NOTICE

This report must not be reproduced (except in full), without the approval of D.L.S. Electronic Systems, Inc.



166 South Carter, Genoa City, WI 53128

Company:
Model Tested:
Report Number:
Project Number:

Dentsply Professional
761248
16690
4350

SIGNATURE PAGE

Report By:

A handwritten signature in black ink that reads "Adam D. Alger". The signature is fluid and cursive, with the first name "Adam" being the most prominent.

Adam Alger
Test Engineer

Reviewed By:

A handwritten signature in black ink that reads "William Stumpf". The signature is written in a cursive style, with the first name "William" being the most prominent.

William Stumpf
OATS Manager

Approved By:

A handwritten signature in black ink that reads "Brian J. Mattson". The signature is written in a cursive style, with the first name "Brian" being the most prominent.

Brian Mattson
General Manager



166 South Carter, Genoa City, WI 53128

Company: Dentsply Professional
Model Tested: 761248
Report Number: 16690
Project Number: 4350

Table of Contents

i.	Cover Page	1
ii.	Signature Page	2
iii.	Table of Contents	3
iv.	NVLAP Certificate of Accreditation	4
1.0	Summary of Test Report	5
2.0	Introduction	5
3.0	Test Facilities	5
4.0	Description of Test Sample	6
5.0	Test Equipment	7
6.0	Test Arrangements	8
7.0	Test Conditions	8
8.0	Modifications Made To EUT For Compliance	8
9.0	Additional Descriptions	9
10.0	Results	9
11.0	Conclusion	9
Appendix A – Test Photos		10
Appendix B – Measurement Data		13
1.0	Emission Bandwidth – 20 dB	13
2.0	Band Edge Measurement	15
3.0	Duty Cycle Correction	17
4.0	Field Strength of Emissions – Fundamental and Spurious	21
5.0	AC Line Conducted Emissions	25



166 South Carter, Genoa City, WI 53128

Company:
Model Tested:
Report Number:
Project Number:

Dentsply Professional
761248
16690
4350

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 100276-0

D.L.S. Electronic Systems, Inc.
Wheeling, IL

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*



2010-10-01 through 2011-09-30

Effective dates

Jolly A. Buces
For the National Institute of Standards and Technology

NVLAP-01C (REV. 2009-01-28)



166 South Carter, Genoa City, WI 53128

Company: Dentsply Professional
Model Tested: 761248
Report Number: 16690
Project Number: 4350

1.0 Summary of Test Report

It was determined that the Dentsply Professional Division MIDWEST® RDH Freedom™ Cordless Prophy System Foot Pedal, Model 761248, complies with the requirements of CFR 47 Part 15 Subpart C Section 15.249.

Subpart C Section 15.249 Applicable Technical Requirements Tested:

Section	Description	Procedure	Note	Compliant?
15.215(c)	20 dB Emission Bandwidth	ANSI C63.4-2009 & ANSI C63.10-2009	1,2	Yes
15.205	Band Edge Measurement Near a Restricted Band	ANSI C63.4-2009 & ANSI C63.10-2009	1,2	Yes
15.35(c)	Duty Cycle Correction for Pulsed operation	ANSI C63.4-2009 & ANSI C63.10-2009	1,2	Yes
15.249 & 15.205 / 15.209	Field Strength of Emissions Fundamental and Spurious	ANSI C63.4-2009 & ANSI C63.10-2009	1,2	Yes
15.207	AC Line Conducted Emissions	ANSI C63.4-2009 & ANSI C63.10-2009	3	Yes

Note 1: Tested in 3 orthogonal planes.

Note 2: Radiated emission measurement.

Note 3: Supply Voltage 120 VAC 60Hz

2.0 Introduction

On December 14 - 21, 2010 the MIDWEST® RDH Freedom™ Cordless Prophy System Foot Pedal, Model 761248, as provided from Dentsply Professional Division was tested to the requirements of CFR 47 Part 15 Subpart C Section 15.249. To meet these requirements, the procedures contained within this report were performed by personnel of D.L.S Electronic Systems, Inc.

3.0 Test Facilities

D.L.S. Electronic Systems, Inc. is a full service EMC/Safety Testing Laboratory accredited to ISO 17025. NVLAP Certificate and Scope can be viewed at <http://www.dlsemc.com/certificate>. Our facilities are registered with the FCC, Industry Canada, and VCCI.

Wisconsin Test Facility:

D.L.S. Electronic Systems, Inc.
166 S. Carter Street
Genoa City, Wisconsin 53128

Wheeling Test Facility:

D.L.S. Electronic Systems, Inc.
1250 Peterson Drive
Wheeling, IL 60090



166 South Carter, Genoa City, WI 53128

Company: Dentsply Professional
Model Tested: 761248
Report Number: 16690
Project Number: 4350

4.0 Description of Test Sample

Description:

The RDH Freedom wireless foot pedal, along with the RDH Freedom cordless prophylaxis handpiece, is used with RHD Freedom disposable prophylaxis angles to clean and polish teeth. When the user presses the foot pedal, the handpiece will rotate at a speed that is dependent of the amount of travel while pressing the foot pedal. When the foot pedal is released, the handpiece must stop.

The handpiece will display the charge status of its rechargeable battery with one LED, which can change from green to yellow to orange. It will also display the battery status of the foot pedal with another LED. A third LED displays the detection of any anomaly in the system. The foot pedal has a rechargeable Lithium-Ion battery, which charges up with an external DC power supply plugged directly into the foot pedal.

Type of Equipment / Frequency Range:

Foot Pedal / 2405 - 2480 MHz

Physical Dimensions of Equipment Under Test:

Length: 129 mm x Width: 129 mm x Height: 55 mm

Power Source:

90-260 VAC 50-60Hz Switching Power Supply (SL Power)
3.7 VDC Rechargeable Lithium-Ion battery (not user serviceable)

Internal Frequencies:

16 MHz, 1600 kHz (switching power supply)

Transmit / Receive Frequencies Used For Test Purpose:

2405, 2445, 2480 MHz

Type of Modulation(s) / Antenna Type:

O-QPSK / Integral trace antenna

Description of Circuit Board(s) / Part Number:

Foot Pedal PCB assembly	763831 Rev 0.1
Battery protection PCB assembly	761267 Rev 4.0



166 South Carter, Genoa City, WI 53128

Company: Dentsply Professional
 Model Tested: 761248
 Report Number: 16690
 Project Number: 4350

5.0 Test Equipment

A list of the equipment used can be found in the table below. All primary equipment was calibrated against known reference standards with a verified traceable path to NIST.

D.L.S. Wisconsin – OATS 2 / G1 / Screen room

Description	Manufacturer	Model Number	Serial Number	Frequency Range	Cal Dates	Cal Due Dates
G1 Emissions 30-1000 MHz						
Receiver	Rohde & Schwarz	ESI 40	837808/005	20 Hz – 40 GHz	7/10	7/11
Preamplifier	Rohde & Schwarz	TS-PR10	032001/003	9 kHz – 1 GHz	1/10	1/11
Antenna	EMCO	3104C	9810-4849	20 MHz – 200 MHz	2/10	2/12
Antenna	EMCO	3146	1604	200 MHz – 1 GHz	8/10	8/12
Screen room - AC Line Conducted						
LISN	Solar	9252-50-R-24-BNC	961019	9 kHz – 30 MHz	7/10	7/11
Filter- High-Pass	SOLAR	7930-120	090702	120 kHz – 30 MHz	1/10	1/11
Limiter	Electro-Metrics	EM-7600	706	9 kHz – 30 MHz	1/10	1/11
Site 2 Emissions – 1-26 GHz						
Receiver	Rohde & Schwarz	ESI 26	837491/010	20 Hz – 26 GHz	5/10	5/11
Filter- High-Pass	Q-Microwave	100462	2	4.2GHz-18GHz	5/10	5/11
Preamp	Ciao	CA118-4010	101	1GHz-18GHz	1/10	1/11
Horn Antenna	EMCO	3115	9903-5731	1-18GHz	6/09	6/11
Preamp	Miteq	AMF-8B-180265-40-10P-H/S	438727	18GHz-26GHz	8/10	8/11
Horn Antenna	AH Systems	SAS-574	222	18 – 40GHz	5/10	4/12



166 South Carter, Genoa City, WI 53128

Company: Dentsply Professional
Model Tested: 761248
Report Number: 16690
Project Number: 4350

6.0 Test Arrangements

Emissions Measurement Arrangement:

All radiated emission measurements were performed at D.L.S. Electronic Systems, Inc. and set up according to ANSI C63.4-2009 and ANSI C63.10-2009, unless otherwise noted. Description of procedures and measurements can be found in Appendix B – Measurement Data. See Appendix A for additional photos of the test set up.

Unless otherwise noted, the bandwidth of the measuring receiver / analyzer used during testing is shown below.

Frequency Range	Bandwidth (-6 dB)
10 to 150 kHz	200 Hz
150 kHz to 30 MHz	9 kHz
30 MHz to 1 GHz	120 kHz
Above 1 GHz	1 MHz

7.0 Test Conditions

Test Conditions recorded during test:

Temperature and Humidity:

65°F at 25% RH

Battery / Supply Voltage:

3.7 VDC / 120 VAC 60Hz

8.0 Modifications Made To EUT For Compliance

None noted at time of test.



166 South Carter, Genoa City, WI 53128

Company:	Dentsply Professional
Model Tested:	761248
Report Number:	16690
Project Number:	4350

9.0 Additional Descriptions

Hyper-terminal was used to send commands to the radio to put the radio in special test modes. The EUT was tested in continuous transmit mode and continuous receive mode. The EUT was tested while set to channels 0, 8, and 15 (low, mid and high).

The unit transmits and receives while connected to the AC adapter or under battery power. Both configurations were tested and worst case emissions were recorded.

10.0 Results

Measurements were performed in accordance with ANSI C63.4-2009 and ANSI C63.10-2009. Graphical and tabular data can be found in Appendix B at the end of this report.

11.0 Conclusion

The MIDWEST® RDH Freedom™ Cordless Prophy System Foot Pedal, Model 761248, as provided from Dentsply Professional Division tested on December 14 - 21, 2010 **meets** the requirements of CFR 47 Part 15 Subpart C Section 15.249.



166 South Carter, Genoa City, WI 53128

Company:
Model Tested:
Report Number:
Project Number:

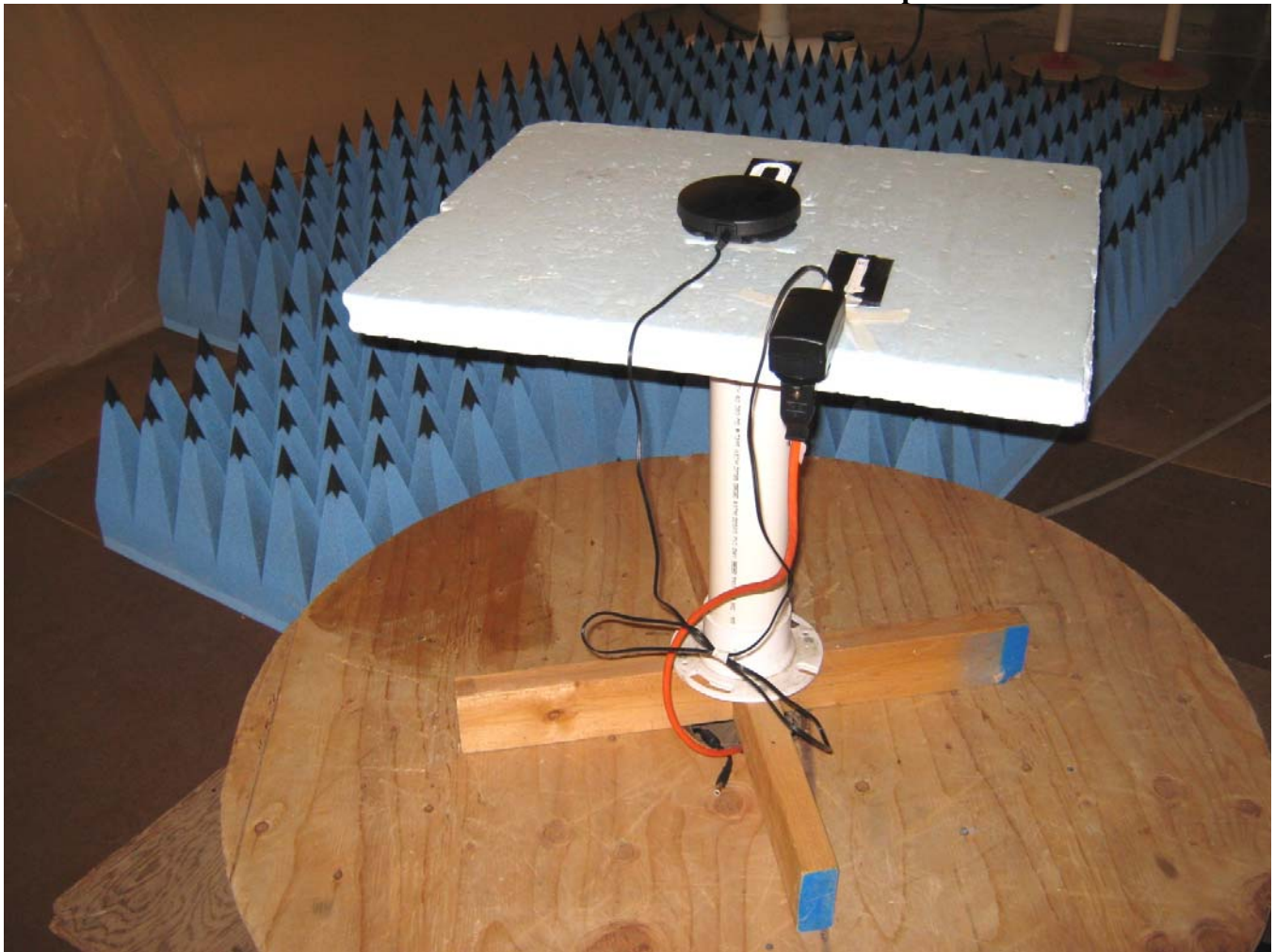
Dentsply Professional
761248
16690
4350

Appendix A – Test Photos

Photo Information and Test Setup:

Item 0: RDH Freedom Cordless Prophy Foot Pedal, Model 761248
Item 1: SL Power, Model MW170KB0502B03

Radiated Emissions – Above 1 GHz – AC Adapter



Appendix A

Radiated Emissions – Above 1 GHz – Battery Operation



Appendix A

AC Line Conducted Emissions – Transmit Mode





166 South Carter, Genoa City, WI 53128

Company:	Dentsply Professional
Model Tested:	761248
Report Number:	16690
Project Number:	4350

Appendix B – Measurement Data

1.0 Emission Bandwidth – 20 dB

Rule Part:

Section 15.215 (c)

Test Procedure:

ANSI C63.4-2009 and ANSI C63.10-2009

Limit:

Informative

Results:

Compliant
20 dB bandwidth: **2.68 MHz**

Sample Equation(s):

None

Notes:

This was a radiated emissions measurement. The maximum field strength of the emission was determined and the bandwidth was measured from the points at 20 dB down from the modulated carrier.



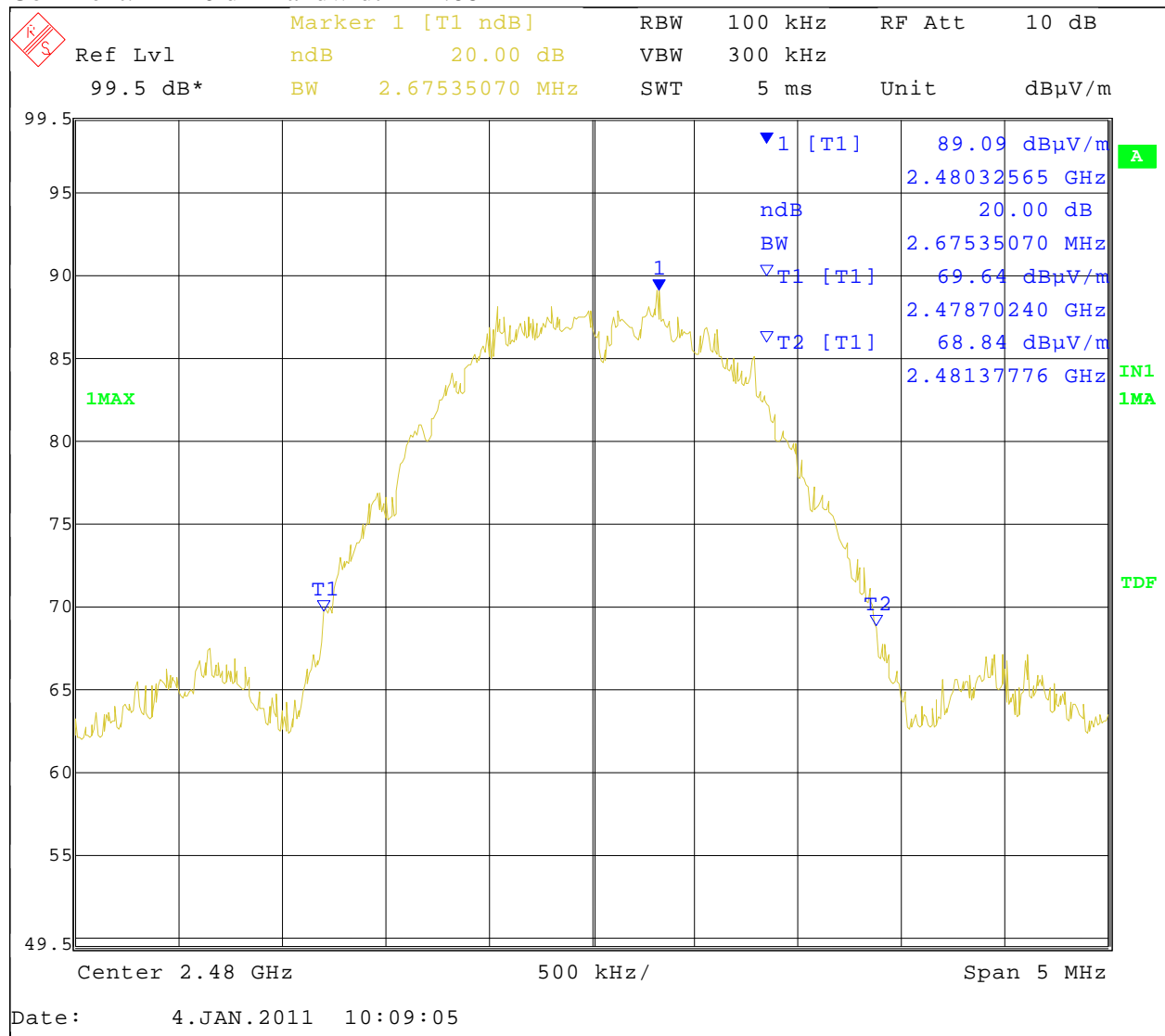
166 South Carter, Genoa City, WI 53128

Company: Dentsply Professional
 Model Tested: 761248
 Report Number: 16690
 Project Number: 4350

Appendix B

Test Date: 1-4-2010
 Company: Dentsply Professional
 EUT: Prophy Solutions Foot Pedal Model: 761248
 Test: 20 dB Bandwidth
 Operator: Cooper L.

Comment: 20 dB Bandwidth = 2.68 MHz





166 South Carter, Genoa City, WI 53128

Company:
Model Tested:
Report Number:
Project Number:

Dentsply Professional
761248
16690
4350

Appendix B

2.0 Band Edge Measurement

Rule Part:

15.205

Test Procedure:

ANSI C63.4-2009 and ANSI C63.10-2009

Limit:

15.205 / 15.209

Results:

Compliant

Sample Equation(s):

None

Notes:

Test distance 1 meter.



166 South Carter, Genoa City, WI 53128

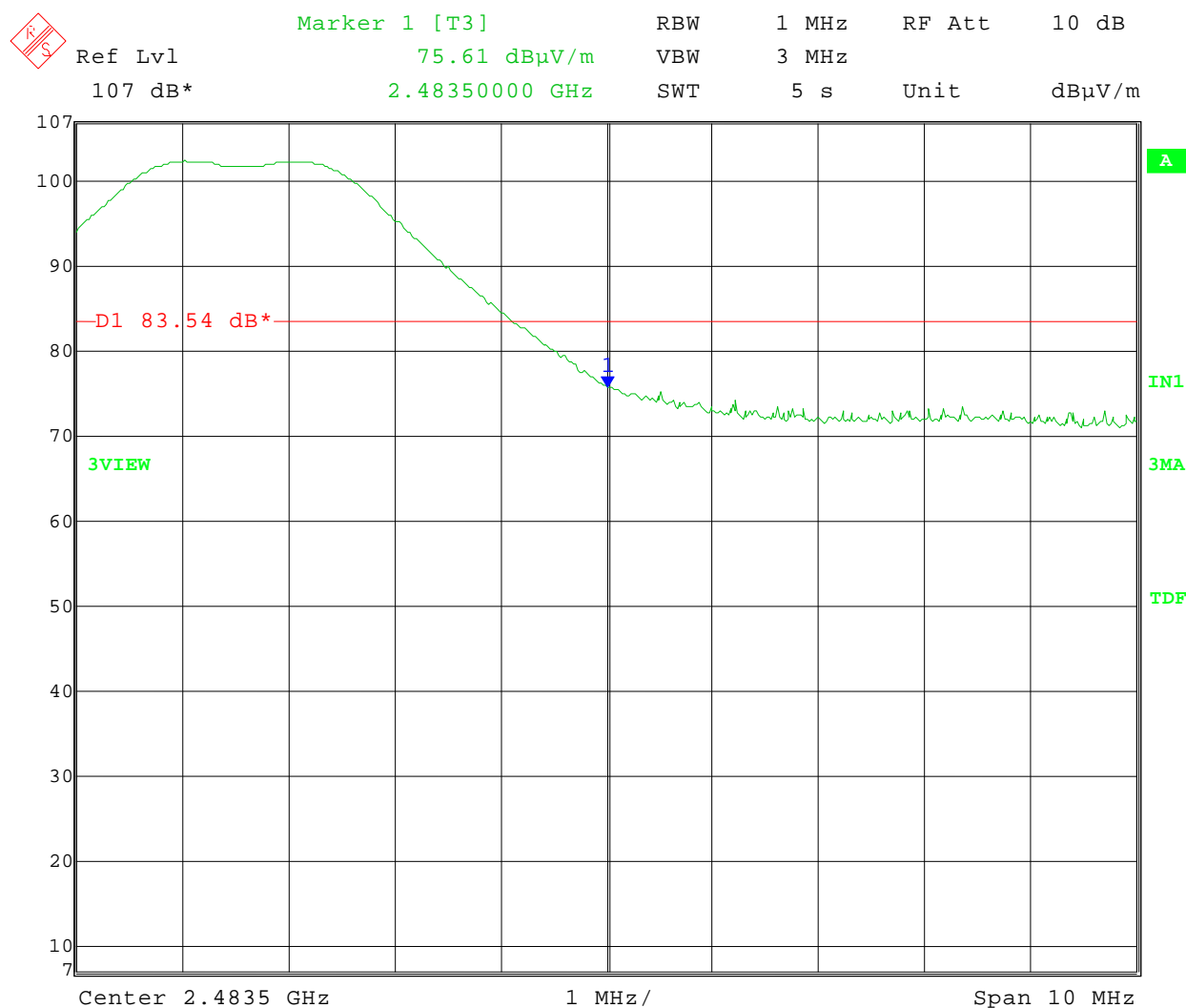
Company: Dentsply Professional
Model Tested: 761248
Report Number: 16690
Project Number: 4350

Test Date: 12-14-2010
Company: Dentsply Professional
EUT: Proply Solutions foot pedal Model: 761248
Test: Upper Band-Edge Radiated
Rule part: FCC Part 15.249 and FCC Part 205
Band-Edge Frequency: 2.4835 GHz
Operator: Craig B
Comment: High Channel: Frequency – 2.480 GHz
Test distance: 1 meter

Peak Limit = 83.54; Average Limit 63.54

Measured peak level = 75.61 dBuV/m

Measured average level = 75.61 – 20 (duty cycle correction) = 55.61 dBuV/m



Date: 14.DEC.2010 14:45:29



166 South Carter, Genoa City, WI 53128

Company:	Dentsply Professional
Model Tested:	761248
Report Number:	16690
Project Number:	4350

Appendix B

3.0 Duty Cycle Correction

Rule Part:

15.35 (c)

Test Procedure:

ANSI C63.4-2009 and ANSI C63.10-2009

Limit:

Informative

Results:

Informative

Sample Equation(s):

See data

Notes:

The unit does not transmit continuously in normal operation. Compliance is determined measuring the EUT in continuous transmit mode, and comparing the peak data, minus duty cycle correction of normal operation, to the average limit. The peak limit is still applicable without duty cycle correction.



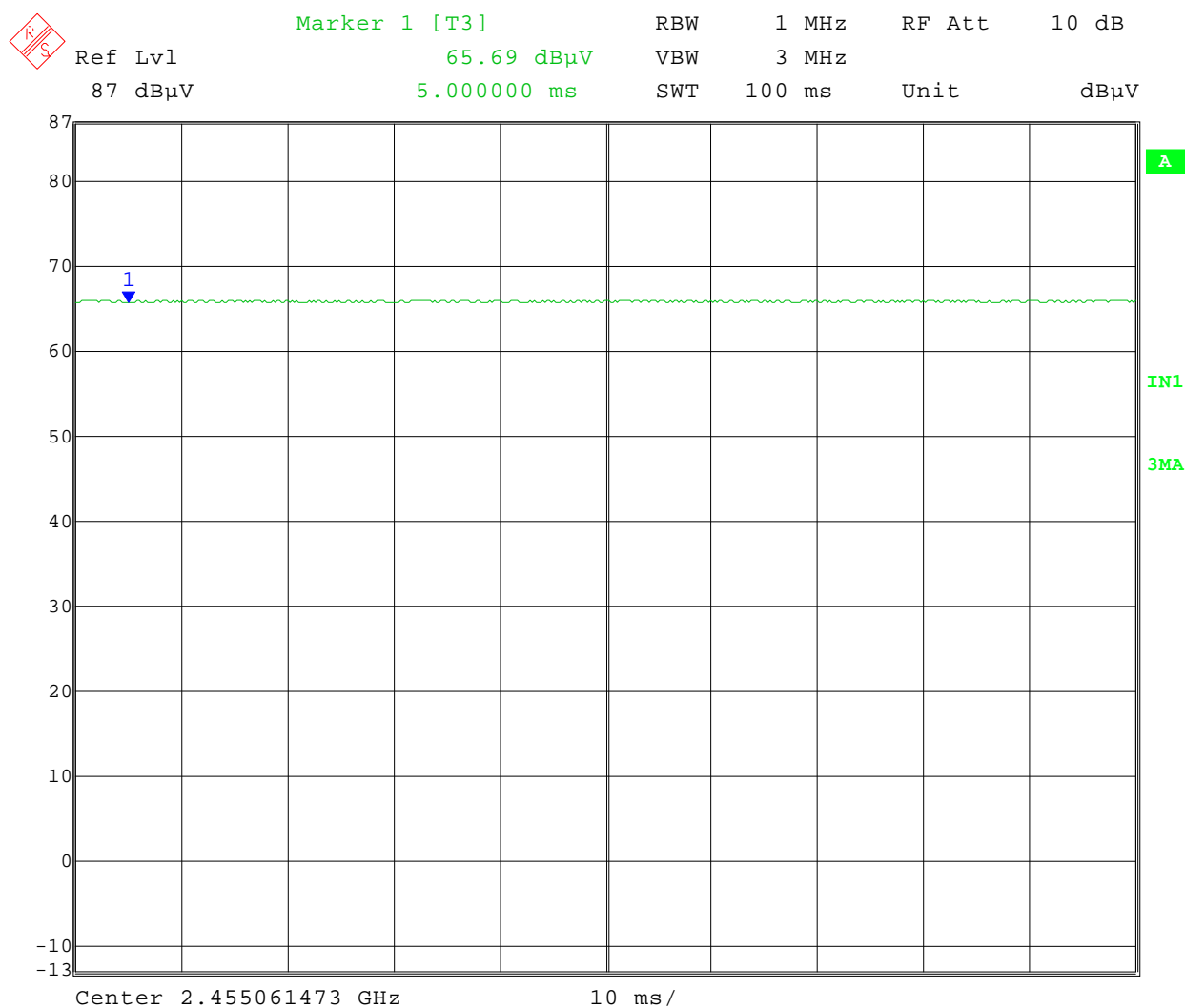
166 South Carter, Genoa City, WI 53128

Company: Dentsply Professional
Model Tested: 761248
Report Number: 16690
Project Number: 4350

Appendix B

Test Date: 12-14-2010
Company: Dentsply Professional
EUT: Prophy Solutions footpedal Model: 761248
Test: Duty Cycle – special mode for testing purposes
Operator: Craig B

Comment: Continuous Transmit
Total ON time in 100 ms = 100 ms



Date: 14.DEC.2010 10:59:32



166 South Carter, Genoa City, WI 53128

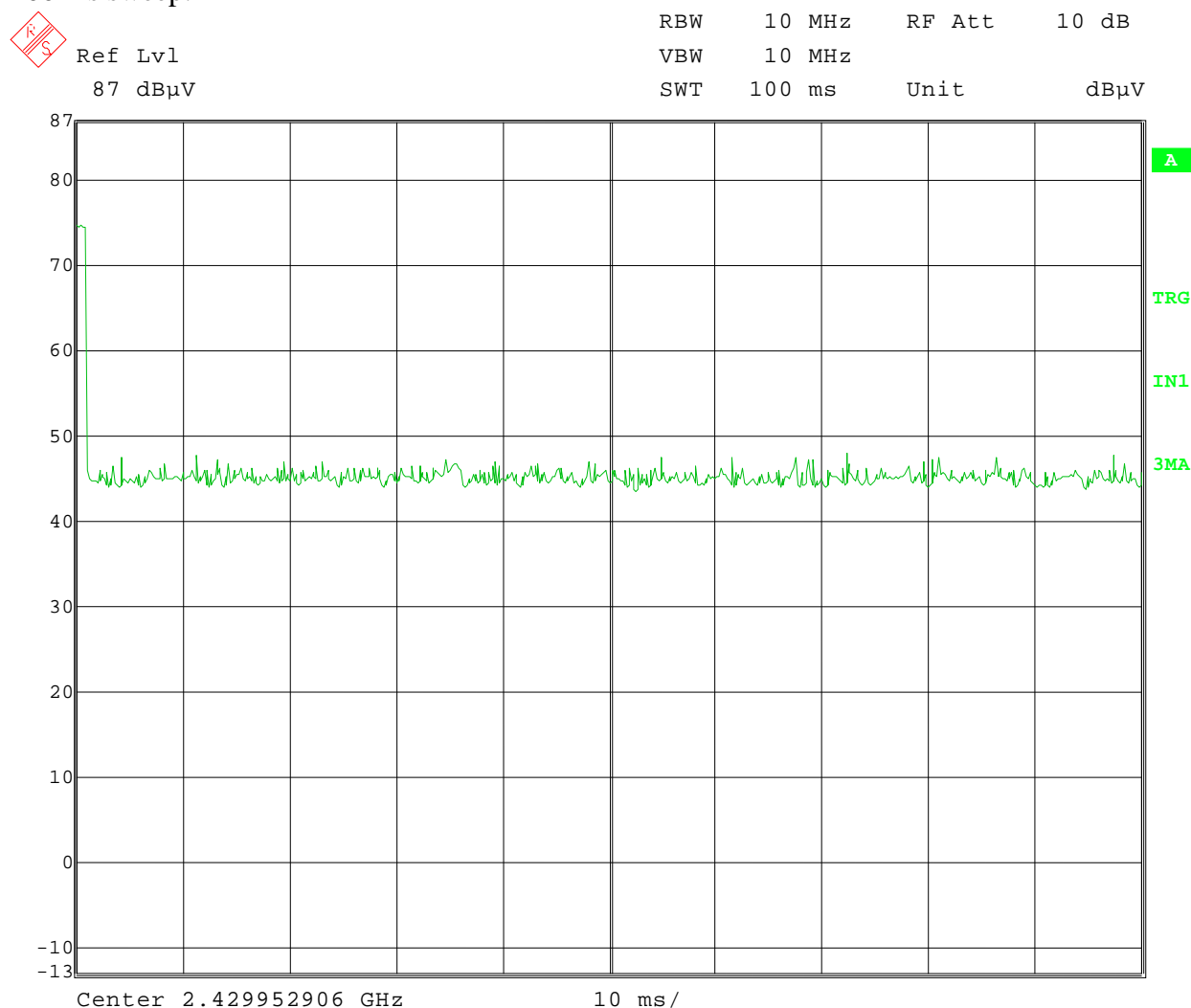
Company: Dentsply Professional
Model Tested: 761248
Report Number: 16690
Project Number: 4350

Appendix B

Test Date: 12-14-2010
Company: Dentsply Professional
EUT: Prophy Solutions footpedal Model: 761248
Test: Duty Cycle – worst case for normal operation
Operator: Craig B

Comment: One pulse during 100 ms: 1.112224 ms
Duty Cycle correction = $20 \log(1.11224/100) = -39 \text{ dB}$

100 ms sweep:



Date: 14.DEC.2010 09:41:39



166 South Carter, Genoa City, WI 53128


Company: Dentsply Professional
Model Tested: 761248
Report Number: 16690
Project Number: 4350

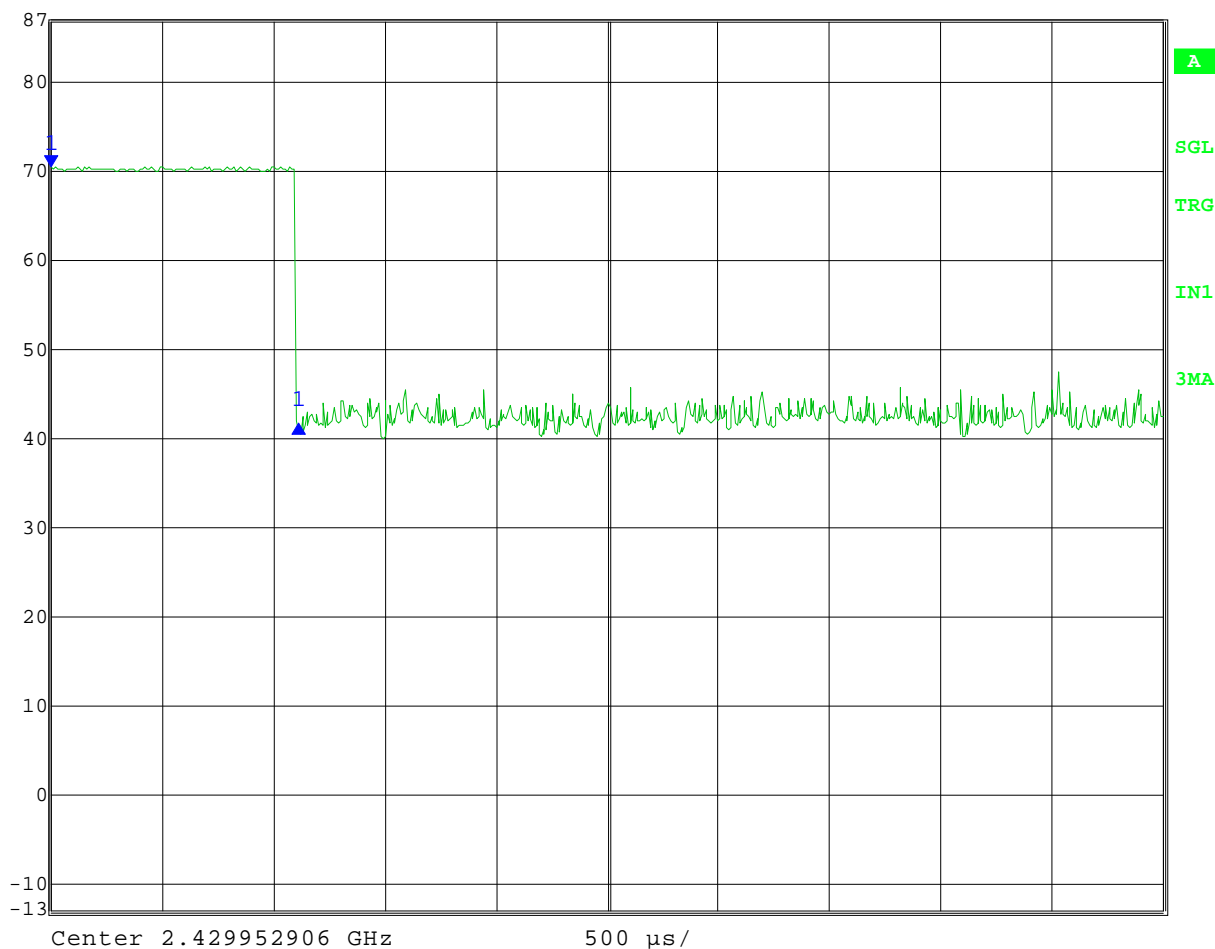
Appendix B

Test Date: 12-14-2010
Company: Dentsply Professional
EUT: Prophy Solutions footpedal Model: 761248
Test: Duty Cycle – worst case for normal operation
Operator: Craig B

Comment: One pulse during 100 ms: 1.112224 ms
Duty Cycle correction = $20 \log(1.11224/100) = -39 \text{ dB}$

ON time of pulse:

	Delta 1 [T3]	RBW	10 MHz	RF Att	10 dB
Ref Lvl	-28.71 dB	VBW	10 MHz		
87 dBμV	1.112224 ms	SWT	5 ms	Unit	dBμV



Date: 14.DEC.2010 09:52:48



166 South Carter, Genoa City, WI 53128

Company:	Dentsply Professional
Model Tested:	761248
Report Number:	16690
Project Number:	4350

Appendix B

4.0 Field Strength of Emissions – Fundamental and Spurious

Rule Part:

15.249 including 15.205

Test Procedure:

ANSI C63.4-2009 and ANSI C63.10-2009

Limit:

15.249 (a)

Results:

Compliant

Sample Equation(s):

Final Corrected = Total Level - Duty Cycle Correction

Margin = Limit - Final Corrected

Level = Total Level - System Loss - Antenna Factor

Notes:

The EUT was tested with the AC Adapter and under battery power, the highest emission was recorded. The unit does not transmit continuously in normal operation. Compliance is determined measuring the EUT in continuous transmit mode, and comparing the peak data, minus duty cycle correction of normal operation, to the average limit. The peak limit is still applicable without duty cycle correction.



166 South Carter, Genoa City, WI 53128

Company: Dentsply Professional
 Model Tested: 761248
 Report Number: 16690
 Project Number: 4350

Radiated Fundamental and Spurious Emissions – 30 MHz to 25 GHz

Tested at a 3 Meter Distance: 30 MHz -18 GHz

Tested at a 1 Meter Distance: 18-25 GHz

EUT: Prophy Solutions foot pedal Model: 761248
Manufacturer: Dentsply Professional
Operating Condition: 65 deg F; 25% R.H.
Test Site: Site 2
Operator: Craig B
Test Specification: FCC Part 15.249
Comment: Battery Operated and with AC adapter
Date: 12-14-2010; 12-15-2010

Notes: All other emissions at least 20 dB under the limit.
 All measurements were made with a peak detector.

CHANNEL: 15

CHANNEL: 15

Frequency (GHz)	Measurement Type	Antenna Polarization	Level (dBu V)	Antenna Factor (dB/m)	System Loss (dB)	Total Level (dBu V/m)	Duty Cycle Correction (dB)	Final Corrected (dBu V/m)	Limit (dBu V/m)	Margin (dB)	Antenna Height (m)	EUT Angle (deg)	Comment
2.480	Max Peak	Vertical	58.65	28.69	3.1	90.44	0	90.44	114.00	23.6	1.1	300	F
	Average						20	70.44	94.00				
	Max Peak	Horizontal	64.24	28.69	3.1	96.03	0	96.03	114.00	18.0	1.0	225	
	Average						20	76.03	94.00				
4.960	Max Peak	Vertical	55.31	33.25	-34.9	53.66	0	53.66	74.00	20.3	1.0	45	H
	Average						20	33.66	54.00				
	Max Peak	Horizontal	54.21	33.25	-34.9	52.56	0	52.56	74.00	21.4	1.3	180	
	Average						20	32.56	54.00				
7.440	Max Peak	Vertical	49.21	36.54	-30.9	54.85	0	54.85	74.00	19.2	1.0	240	H
	Average						20	34.85	54.00				
	Max Peak	Horizontal	50.46	36.54	-30.9	56.10	0	56.1	74.00	17.9	1.4	250	
	Average						20	36.1	54.00				



166 South Carter, Genoa City, WI 53128

Company: Dentsply Professional
 Model Tested: 761248
 Report Number: 16690
 Project Number: 4350

Radiated Fundamental and Spurious Emissions – 30 MHz to 25 GHz

Tested at a 3 Meter Distance: 30 MHz -18 GHz

Tested at a 1 Meter Distance: 18-25 GHz

EUT:	Prophy Solutions foot pedal Model: 761248
Manufacturer:	Dentsply Professional
Operating Condition:	65 deg F; 25% R.H.
Test Site:	Site 2
Operator:	Craig B
Test Specification:	FCC Part 15.249
Comment:	Battery Operated and with AC adapter
Date:	12-14-2010; 12-15-2010

Notes: All other emissions at least 20 dB under the limit.
 All measurements were made with a peak detector.

CHANNEL: 8

Frequency (GHz)	Measurement Type	Antenna Polarization	Level (dBu V)	Antenna Factor (dB/m)	System Loss (dB)	Total Level (dBu V/m)	Duty Cycle Correction (dB)	Final Corrected (dBu V/m)	Limit (dBu V/m)	Margin (dB)	Antenna Height (m)	EUT Angle (deg)	Comment
2.445	Max Peak	Vertical	59.01	28.62	3.1	90.73	0	90.73	114.00	23.3	1.1	290	F
	Average						20	70.73	94.00				
	Max Peak	Horizontal	65.01	28.62	3.1	96.73	0	96.73	114.00	17.3	1.0	225	
	Average						20	76.73	94.00				
4.890	Max Peak	Vertical	55.12	33.09	-34.7	53.51	0	53.51	74.00	20.5	1.2	270	H
	Average						20	33.51	54.00				
	Max Peak	Horizontal	53.64	33.09	-34.7	52.03	0	52.03	74.00	22.0	1.1	180	
	Average						20	32.03	54.00				
7.335	Max Peak	Vertical	51.04	36.41	-31.6	55.85	0	55.85	74.00	18.2	1.3	225	H
	Average						20	35.85	54.00				
	Max Peak	Horizontal	51.53	36.41	-31.6	56.34	0	56.34	74.00	17.7	1.0	270	
	Average						20	36.34	54.00				
9.780	Max Peak	Vertical	48.55	37.96	-31.7	54.81	0	54.81	74.00	19.2	1.3	260	H
	Average						20	34.81	54.00				
	Max Peak	Horizontal	48.67	37.96	-31.7	54.93	0	54.93	74.00	19.1	1.0	290	
	Average						20	34.93	54.00				



166 South Carter, Genoa City, WI 53128

Company: Dentsply Professional
 Model Tested: 761248
 Report Number: 16690
 Project Number: 4350

Radiated Fundamental and Spurious Emissions – 30 MHz to 25 GHz

Tested at a 3 Meter Distance: 30 MHz -18 GHz

Tested at a 1 Meter Distance: 18-25 GHz

EUT: Prophy Solutions foot pedal Model: 761248

Manufacturer: Dentsply Professional

Operating Condition: 65 deg F; 25% R.H.

Test Site: Site 2

Operator: Craig B

Test Specification: FCC Part 15.249

Comment: Battery Operated and with AC adapter

Date: 12-14-2010; 12-15-2010

Notes: All other emissions at least 20 dB under the limit.
 All measurements were made with a peak detector.

CHANNEL: 0

Frequency (GHz)	Measurement Type	Antenna Polarization	Level (dBuV)	Antenna Factor (dB/m)	System Loss (dB)	Total Level (dBuV/m)	Duty Cycle Correction (dB)	Final Corrected (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	EUT Angle (deg)	Comment
2.405	Max Peak	Vertical	58.88	28.53	3.1	90.51	0	90.51	114.00	23.5	1.0	250	F
	Average						20	70.51	94.00				
	Max Peak	Horizontal	65	28.53	3.1	96.63	0	96.63	114.00	17.4	1.1	330	
	Average						20	76.63	94.00				
4.810	Max Peak	Vertical	57.98	32.84	-34.8	56.02	0	56.02	74.00	18.0	1.0	270	H
	Average						20	36.02	54.00				
	Max Peak	Horizontal	55.05	32.84	-34.8	53.09	0	53.09	74.00	20.9	1.1	0	
	Average						20	33.09	54.00				
7.217	Max Peak	Vertical	52.49	35.86	-32.3	56.05	0	56.05	74.00	18.0	1.1	210	H
	Average						20	36.05	54.00				
	Max Peak	Horizontal	53.54	35.86	-32.3	57.10	0	57.1	74.00	16.9	1.1	225	
	Average						20	37.1	54.00				
9.620	Max Peak	Vertical	50.7	37.68	-31.9	56.48	0	56.48	74.00	17.5	1.2	330	H
	Average						20	36.48	54.00				
	Max Peak	Horizontal	50.94	37.68	-31.9	56.72	0	56.72	74.00	17.3	1.0	290	
	Average						20	36.72	54.00				



166 South Carter, Genoa City, WI 53128

Company:
Model Tested:
Report Number:
Project Number:

Dentsply Professional
761248
16690
4350

Appendix B

5.0 AC Line Conducted Emissions

Rule Part:

15.207

Test Procedure:

ANSI C63.4-2009 and ANSI C63.10-2009

Limit:

15.207

Results:

Compliant

Sample Equation(s):

None

Notes:

Tested in continuous transmit mode.

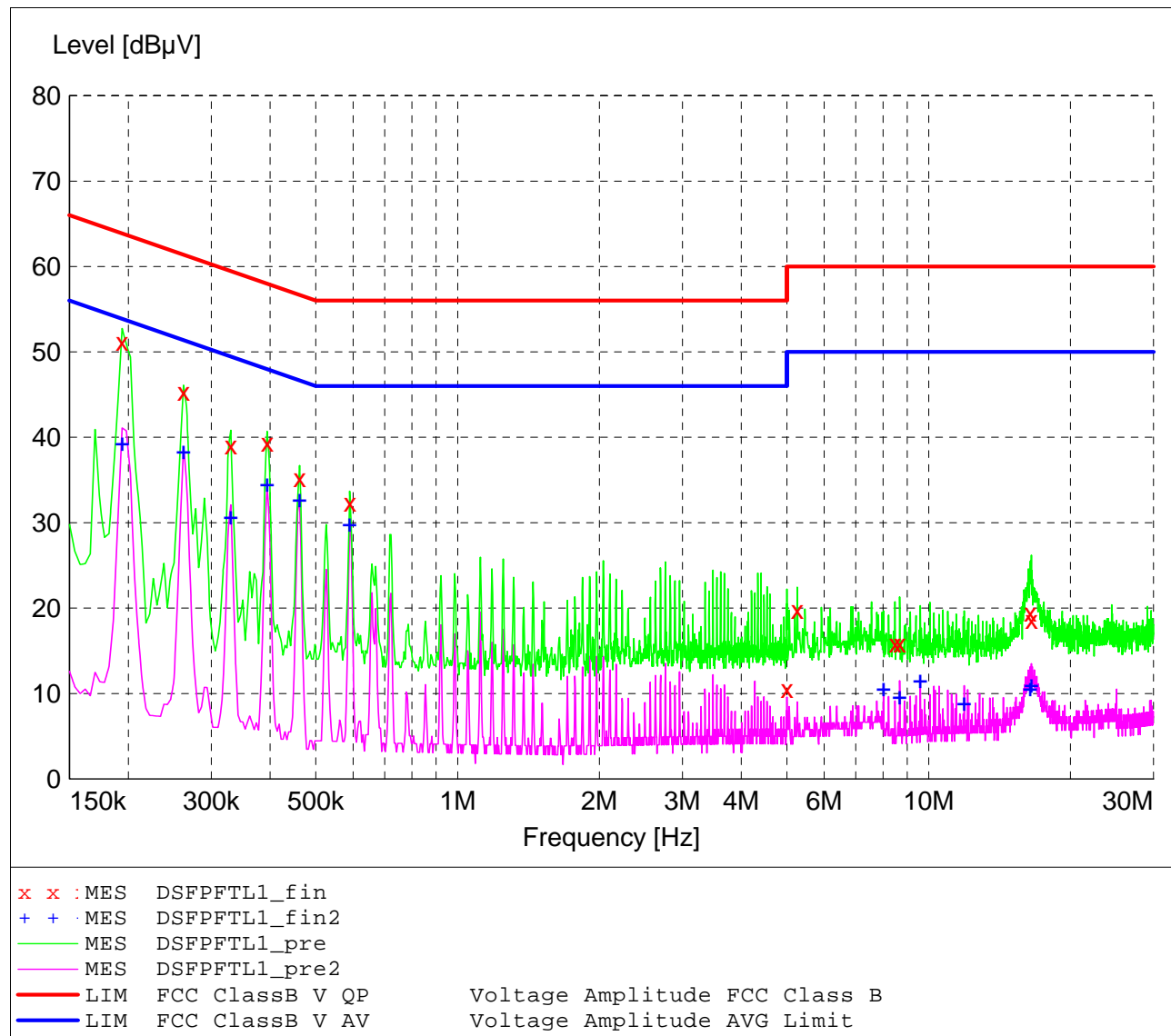
FCC Part 15.207 Class B

Voltage Mains Test

EUT: Propphy Solutions foot pedal Model: 761248
 Manufacturer: Dentsply Professional
 Operating Condition: 68 deg. F, 25% R.H.
 Test Site: DLS O.F. Screenroom
 Operator: Craig B
 Test Specification: Line 1; Continuous Transmit mode
 Comment: 120 V 60 Hz
 Date: 12-16-2010

SCAN TABLE: "Line Cond Scrn RmFin"

Short Description:			Line Conducted Emissions			
Start	Stop	Step	Detector	Meas.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
9.0 kHz	150.0 kHz	4.0 kHz	QuasiPeak	2.0 s	200 Hz	LISN DLS#128
150.0 kHz	30.0 MHz	4.0 kHz	QuasiPeak	2.0 s	9 kHz	LISN DLS#128
CISPR AV						



MEASUREMENT RESULT: "DSFPFTL1_fin"

12/16/2010 10:56AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector
0.194000	51.20	12.5	64	12.7	QP
0.262000	45.30	11.8	61	16.1	QP
0.330000	39.00	11.5	60	20.5	QP
0.394000	39.40	11.2	58	18.6	QP
0.462000	35.20	11.0	57	21.5	QP
0.590000	32.40	10.8	56	23.6	QP
5.000000	10.50	10.5	56	45.5	QP
5.260000	19.80	10.5	60	40.2	QP
8.480000	15.90	10.6	60	44.1	QP
8.680000	15.90	10.6	60	44.1	QP
16.440000	19.50	11.1	60	40.5	QP
16.520000	18.60	11.1	60	41.4	QP

MEASUREMENT RESULT: "DSFPFTL1_fin2"

12/16/2010 10:56AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector
0.194000	39.40	12.5	54	14.5	CAV
0.262000	38.40	11.8	51	13.0	CAV
0.330000	30.80	11.5	50	18.7	CAV
0.394000	34.60	11.2	48	13.4	CAV
0.462000	32.80	11.0	47	13.9	CAV
0.590000	29.90	10.8	46	16.1	CAV
8.020000	10.60	10.6	50	39.4	CAV
8.680000	9.70	10.6	50	40.3	CAV
9.600000	11.60	10.7	50	38.4	CAV
11.900000	8.90	10.9	50	41.1	CAV
16.420000	10.60	11.1	50	39.4	CAV
16.520000	11.10	11.1	50	38.9	CAV

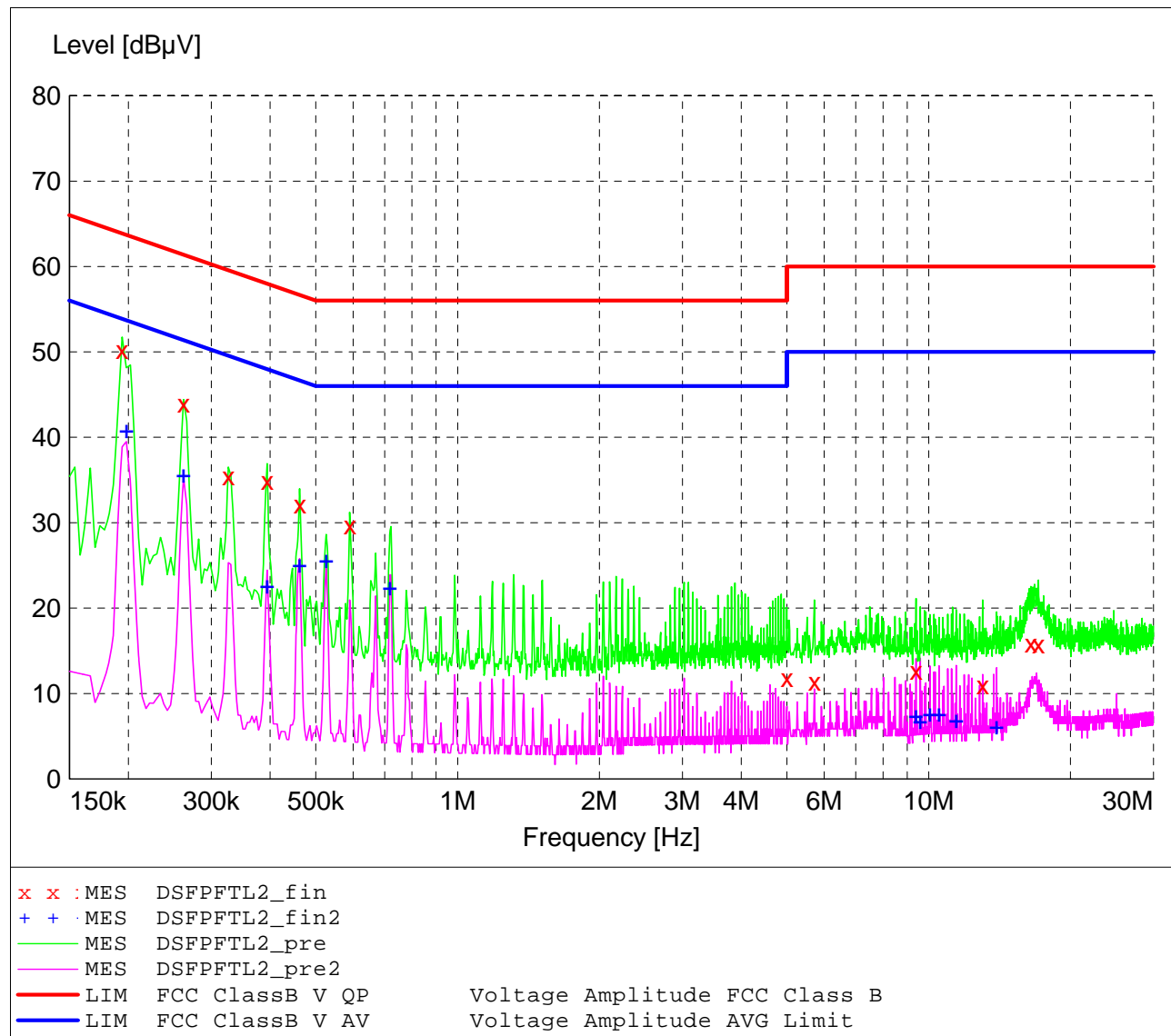
FCC Part 15.207 Class B

Voltage Mains Test

EUT: Prophy Solutions foot pedal Model: 761248
 Manufacturer: Dentsply Professional
 Operating Condition: 68 deg. F, 25% R.H.
 Test Site: DLS O.F. Screenroom
 Operator: Craig B
 Test Specification: Line 2; Continuous Transmit mode
 Comment: 120 V 60 Hz
 Date: 12-16-2010

SCAN TABLE: "Line Cond Scrn RmFin"

Short Description:			Line Conducted Emissions			
Start	Stop	Step	Detector	Meas.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
9.0 kHz	150.0 kHz	4.0 kHz	QuasiPeak	2.0 s	200 Hz	LISN DLS#128
150.0 kHz	30.0 MHz	4.0 kHz	QuasiPeak	2.0 s	9 kHz	LISN DLS#128
CISPR AV						



MEASUREMENT RESULT: "DSFPFTL2_fin"

12/16/2010 11:03AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector
0.194000	50.20	12.5	64	13.7	QP
0.262000	43.90	11.8	61	17.5	QP
0.326000	35.40	11.5	60	24.2	QP
0.394000	34.90	11.2	58	23.1	QP
0.462000	32.10	11.0	57	24.6	QP
0.590000	29.70	10.8	56	26.3	QP
5.000000	11.80	10.5	56	44.2	QP
5.720000	11.40	10.5	60	48.6	QP
9.400000	12.70	10.7	60	47.3	QP
13.020000	11.00	11.0	60	49.0	QP
16.480000	15.90	11.1	60	44.1	QP
17.100000	15.70	11.1	60	44.3	QP

MEASUREMENT RESULT: "DSFPFTL2_fin2"

12/16/2010 11:03AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector
0.198000	40.90	12.5	54	12.8	CAV
0.262000	35.70	11.8	51	15.7	CAV
0.394000	22.70	11.2	48	25.3	CAV
0.462000	25.10	11.0	47	21.6	CAV
0.526000	25.60	10.9	46	20.4	CAV
0.718000	22.40	10.7	46	23.6	CAV
9.400000	7.40	10.7	50	42.6	CAV
9.600000	6.80	10.7	50	43.2	CAV
10.060000	7.60	10.8	50	42.4	CAV
10.520000	7.60	10.9	50	42.4	CAV
11.440000	6.90	10.9	50	43.1	CAV
13.940000	6.20	11.0	50	43.8	CAV



166 South Carter, Genoa City, WI 53128

Company: Dentsply Professional
Model Tested: 761248
Report Number: 16690
Project Number: 4350

END OF REPORT

Revision #	Date	Comments	By
1.0	01-13-2011	Preliminary Release	AA
1.1	01-19-2011	Fixed page 24 (Handpiece data to Foot pedal data)	AA