

MEASUREMENT AND TECHNICAL REPORT

MEDTRONIC MINIMED
18000 Devonshire Street
Northridge, CA 91325

DATE: 06 March 2006

This Report Concerns:	Original Grant: <input checked="" type="checkbox"/>	Class II Change: <input type="checkbox"/>
Equipment Type:	Glucose Sensor Transmitter GST1, Model MMT-7703	
Deferred grant requested per 47 CFR 0.457(d)(1)(ii)?	Yes: <input type="checkbox"/> Defer until: <input type="text"/>	No: <input checked="" type="checkbox"/>
Company Name agrees to notify the Commission by:	<input type="text" value="N/A"/>	
of the intended date of announcement of the product so that the grant can be issued on that date.		
Transition Rules Request per 15.37?	Yes: <input type="checkbox"/>	No: <input checked="" type="checkbox"/>
(*) FCC Part 15, Paragraph(s) 15.209(a) and 15.249(a)		
Report Prepared by:	TÜV AMERICA, INC 10040 Mesa Rim Road San Diego, CA 92121-2912 Phone: 858 678 1400 Fax: 858 546 0364	

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1.0 GENERAL INFORMATION

1.1 Product Description

General Equipment Description:	
EUT Description:	Glucose Sensor Transmitter
EUT Name:	Glucose Sensor Transmitter GST1
Model No.:	MMT-7703

2Hz Special Transmitter Mode

Configurations and modes to be tested:

Power Requirements: Voltage: 3.7V Nominal
EUT Power Cable: N/A
EUT Operating Modes to be Tested : 2Hz EMI Test Software – special software used to facilitate FCC and EMI testing.
EUT System Components -

Description	Model #	Serial #	FCC ID #
Glucose Sensor Transmitter	MMT-7703		

Support Equipment			
Description	Model #	Serial #	FCC ID #
GST Test Plug Sensor Simulator	MMT-7706		

Oscillator Frequencies			
Frequency	Derived Frequency	Component # / Location	Description of Use
27MHz	--	Y1	Transmitter Reference Oscillator
32.768KHz	--	U3	Real Time Clock IC
8MHz	--	U5	Micro-controller Oscillator

Power Supply				
Manufacturer	Model #	Serial #	Type	
Ricoh	R1180D301C	N/A	Switched-mode:	
			Linear:X	

1.2 Related Submittal Grant

None

1.3 Tested System Details

The FCC ID's for all equipment, plus descriptions of all cables used in the tested system are:

None

1.4 Test Methodology

Purpose of Test: To demonstrate compliance with the following tests.

Test Summary					
Test Description	Paragraph Number	Summary of Results			Pass/Fail
		Low Channel	Mid Channel	High Channel	
Radiated Emissions (30 to 1000 MHz)	15.209(a)	--	No Emissions Found	--	Pass
Radiated Spurious Emissions/Field Strength – Restricted Bands (1GHz to 25GHz)	15.249/ 15.209(a)	--	-9.0 @ 7332.8 MHz	--	Pass

Testing was performed according to the procedures in FCC/ANSI C63.4 and CSA 108.8-M1983.

1.5 Test Facility

The open area test site and conducted measurement data were tested by:

TÜV AMERICA, INC
 10040 Mesa Rim Road
 San Diego, CA 92121-2912
 Phone: 858 678 1400
 Fax: 858 546 0364

The Test Site Data and performance comply with ANSI C63.4 and are registered with the FCC, 7435 Oakland Mills Road, Columbia Maryland 21046. All Measurement Data is acquired according to the content of FCC Measurement Procedure and ANSI C63.4, unless supplemented with additional requirements as noted in the test report.

2.0 SYSTEM TEST CONFIGURATION

2.1 Justification

The EUT was initially tested for FCC emissions in the following configuration:

See Test Setup Photos Exhibit

2.2 EUT Exercise Software

None

2.3 Special Accessories

None

2.4 Equipment Modifications

None

2.5 Configuration of Test System

See Test Setup Photos Exhibit

3.0 RADIATED SPURIOUS EMISSIONS EQUIPMENT/DATA

Test Conditions: RADIATED SPURIOUS EMISSIONS: FCC Part 15.209(a) and 15.249

The following measurements were performed at the San Diego Testing Facility:

- Test not applicable

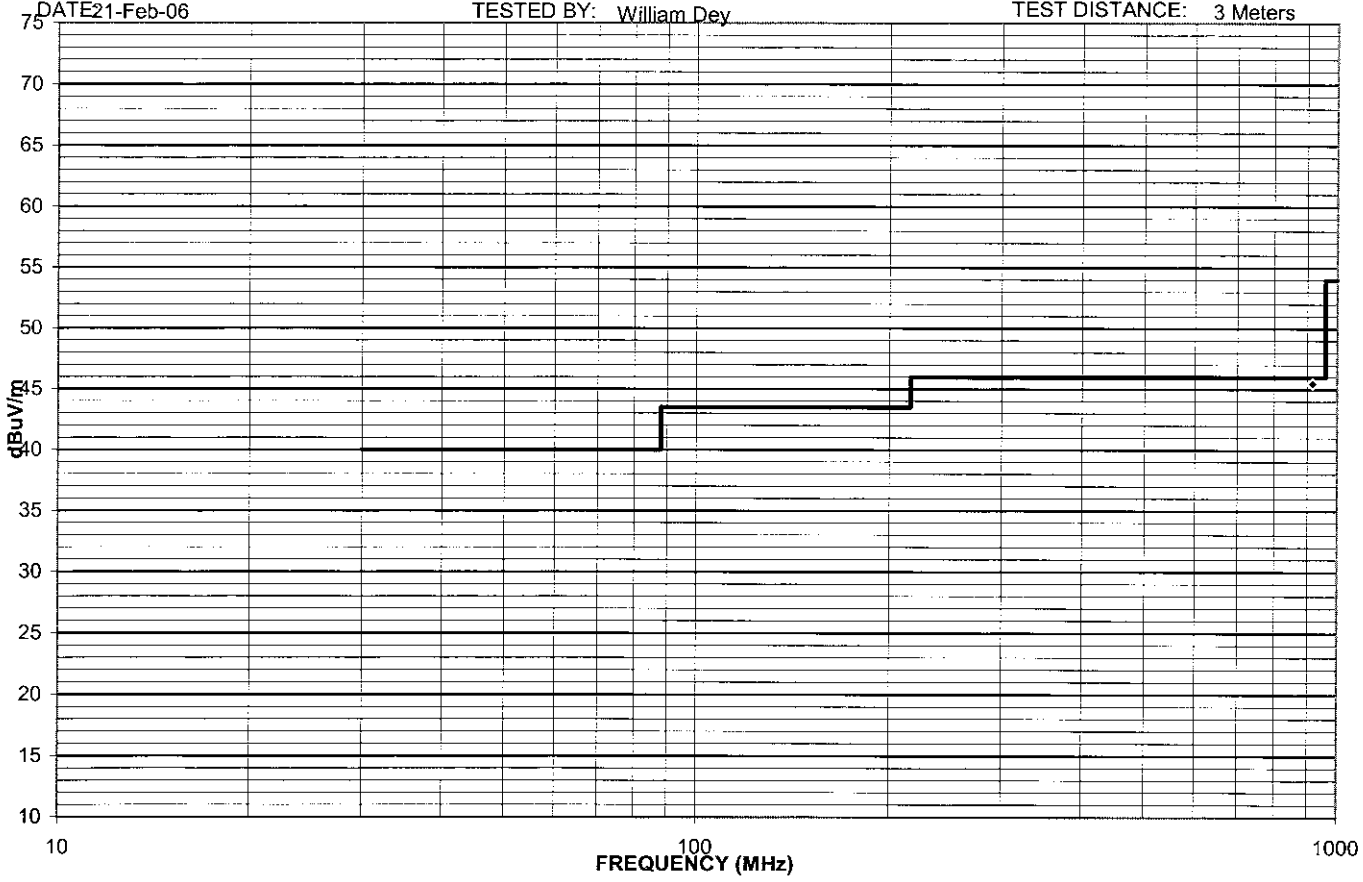
■ - Roof (Small Open Area Test Site)

Test Equipment Used:

Model No.	Prop. No.	Description	Manufacturer	Serial No.	Date Cal'ed
E4446A	6823	Spectrum Analyzer	Agilent	US44300486	04/05
E4440A	6814	Spectrum Analyzer	Agilent	MY42510441	02/06
3146	6641	Log Periodic Antenna	EMCO	106X	06/05
3115	6669	Double Ridge Antenna	EMCO	9412-4364	08/05

Remarks: One year calibration cycle for all test equipment and sites.

REPORT NO: SC600996 SPEC: FCC Part 15 para 15.209(a)
COMPANY: Medtronic Minimed
EUT: Receiver CSS7100 S/N GLU100204U Transmitter MMT-7703(GST1) s
EUT MODE: Transmission Mode 0.5 Second
DATE: 21-Feb-06 TESTED BY: William Dey TEST DISTANCE: 3 Meters



4.0 ATTESTATION STATEMENT

GENERAL REMARKS:

SUMMARY:

All tests were performed per CFR 47, Part(s) 15.209(a) and 15.249

■ - Performed

The Equipment Under Test

■ - **Fulfills** the requirements of CFR 47, Part(s) 15.209(a) and 15.249

Testing Start Date: 21 February 2006

Testing End Date: 22 February 2006

- TÜV AMERICA, INC. -

Reviewing Engineer:



David Gray
(EMC Engineer In Charge)

Test Engineer:



William Dey
(EMC Technician)