

FCC PART 15, SUBPART B and C
TEST REPORT

for

TAMI TELEMETRY SYSTEM

MODEL: TU-4010

Prepared for

CLINICAL INNOVATIONS, INC.
747 WEST 4170 SOUTH
MURRAY, UTAH 84123

Prepared by: *Kyle Fujimoto*

KYLE FUJIMOTO

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JAMES ROSS

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DATE: OCTOBER 18, 2007

	REPORT BODY	APPENDICES					TOTAL
		<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	
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GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced without the written permission of Compatible Electronics, unless done so in full.

This report must not be used to claim product endorsement by NVLAP, NIST or any other agency of the U.S. Government.

Device Tested: TAMI Telemetry System
Model: TU-4010
S/N: N/A

Product Description: See Expository Statement

Modifications: The EUT was not modified in order to meet the specifications.

Customer: Clinical Innovations, Inc.
747 West 4170 South
Murray, Utah 84123

Test Date: October 11, 2007

Test Specifications: EMI requirements
CFR Title 47, Part 15 Subpart B; and Subpart C, Sections 15.205, 15.209 and 15.249

Test Procedure: ANSI C63.4

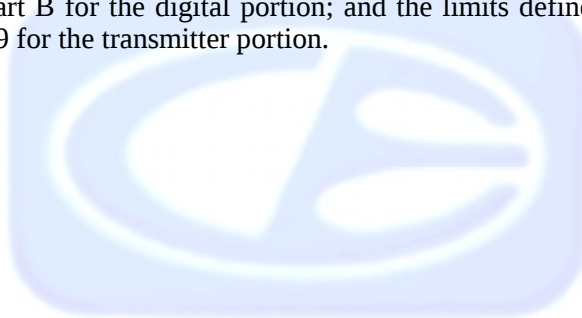
Test Deviations: The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Conducted RF Emissions, 150 kHz – 30 MHz	Complies with the Class B limits of CFR Title 47, Part 15, Subpart B.
2	Radiated RF Emissions, 10 kHz – 9300 MHz (Transmitter Portion)	Complies with the limits of CFR Title 47, Part 15, Subpart C, section 15.205, 15.209, and 15.249.
3	Radiated RF Emissions, 10 kHz – 9300 MHz (Digital Portion)	Complies with the Class B limits of CFR Title 47, Part 15, Subpart B.

1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the TAMI Telemetry System, Model: TU-4010. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the **Class B** specification limits defined by CFR Title 47, Part 15, Subpart B for the digital portion; and the limits defined in Subpart C, sections 15.205, 15.209, and 15.249 for the transmitter portion.



2. ADMINISTRATIVE DATA

2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Compatible Electronics, 114 Olinda Drive, Brea, California 92823.

2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

2.3 Cognizant Personnel

Clinical Innovations, Inc.

Chris Cutler General Manager

Compatible Electronics, Inc.

Kyle Fujimoto Test Engineer
James Ross Test Engineer

2.4 Date Test Sample was Received

The test sample was received on October 11, 2007.

2.5 Disposition of the Test Sample

The sample has not been returned to Clinical Innovations, Inc. as of October 18, 2007.

2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network

3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

SPEC	TITLE
CFR Title 47, Part 15	FCC Rules – Radio frequency devices (including digital devices)
ANSI C63.4 2003	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description Of Test Configuration - EMI

Setup and operation of the equipment under test.

Specifics of the EUT and Peripherals Tested

Transmit Mode: The TAMI Telemetry System, Model: TU-4010 (EUT) was connected to 2 loopback cables and tested in three orthogonal axes. The EUT was transmitting on a continuous basis.

Charging Mode: The TAMI Telemetry System, Model: TU-4010 (EUT) was connected to an AC adapter and 2 loopback cables. The AC Adapter was charging the battery on the EUT on a continuous basis. Please note the transmitter function is disabled when the EUT is in charging mode.

The final radiated as well as conducted data was taken in both modes above. Please see Appendix E for the data sheets.

4.1.1 Cable Construction and Termination

Cable 1

This is a 1-meter cable connecting pin #1 of the white port of the EUT to pin #3 of the white port of the EUT. The cable is hard wired at each end.

Cable 2

This is a 1-meter cable connecting pin #2 of the white port of the EUT to pin #3 of the white port of the EUT. The cable is hard wired at each end.

Cable 3

(For Charging Mode Only)

This is a 2-meter cable connecting the AC Adapter to the EUT. The cable has a 1/8 inch power connector at the EUT end and is hard wired into the AC Adapter.

5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT**5.1 EUT and Accessory List**

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	FCC ID
TAMI TELEMETRY SYSTEM (EUT)	CLINICAL INNOVATIONS, INC.	TU-4010	N/A	TBD
AC ADAPTER	ENG	35-9-200C	EIA 363 0005	N/A

5.2 EMI Test Equipment

EQUIPMENT TYPE	MANU-FACTURER	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
GENERAL TEST EQUIPMENT USED FOR ALL RF EMISSIONS TESTS					
Computer	Hewlett Packard	4530	US91912319	N/A	N/A
EMI Receiver	Rohde & Schwarz	ESIB40	100149	November 15, 2005	Nov. 15, 2007
Monitor	Hewlett Packard	D5258A	TW74500641	N/A	N/A
RF RADIATED EMISSIONS TEST EQUIPMENT					
Preamplifier	Com Power	PA-102	1017	January 16, 2007	Jan. 16, 2008
Biconical Antenna	Com Power	AB-900	15227	March 8, 2007	March 8, 2008
Log Periodic Antenna	Com Power	AL-100	16060	July 9, 2007	July 9, 2008
Loop Antenna	Com Power	AL-130	17089	September 24, 2007	Sept. 24, 2008
Horn Antenna	Antenna Research	DRG-118/A	1053	March 6, 2006	March 6, 2008
Microwave Preamplifier	Com Power	PA-122	181921	Feb. 27, 2007	Feb. 27, 2008
Antenna Mast	Com Power	AM-100	N/A	N/A	N/A
RF CONDUCTED EMISSIONS TEST EQUIPMENT					
Emissions Program	Compatible Electronics	2.3 (SR19)	N/A	N/A	N/A
Transient Limiter	Seaward	252A910	1	September 19, 2007	September 19, 2008
LISN	Com Power	LI-215	12082	September 26, 2007	September 26, 2008
LISN	Com Power	LI-215	12078	September 26, 2007	September 26, 2008

6. TEST SITE DESCRIPTION

6.1 Test Facility Description

Please refer to section 2.1 and 7.1 of this report for EMI test location.

6.2 EUT Mounting, Bonding and Grounding

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT was not grounded.

7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

7.1 RF Emissions

7.1.1 Conducted Emissions Test

The EMI Receiver was used as a measuring meter. The data was collected with the spectrum analyzer in the peak detect mode with the "Max Hold" feature activated. The quasi-peak was used only where indicated in the data sheets. A transient limiter was used for the protection of the spectrum analyzer input stage, and the offset was adjusted accordingly to read the actual data measured. The LISN output was measured using the spectrum analyzer. The output of the second LISN was terminated by a 50 ohm termination. The effective measurement bandwidth used for this test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI C63.4. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The conducted emissions from the EUT were maximized for operating mode as well as cable placement. The final data was collected under program control by the Compatible Electronics software in several overlapping sweeps by running the spectrum analyzer at a minimum scan rate of 10 seconds per octave. The final qualification data is located in Appendix E.

Test Results:

Complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B.

7.1.2 Radiated Emissions (Spurious and Harmonics) Test

The EMI Receiver was used as a measuring meter along with the quasi-peak adapter. Amplifiers were used to increase the sensitivity of the instrument. The Com Power Preamplifier Model: PA-102 was used for frequencies from 30 MHz to 1 GHz, and the Com-Power Microwave Preamplifier Model: PA-122 was used for frequencies above 1 GHz. The EMI Receiver was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer or EMI Receiver records the highest measured reading over all the sweeps.

The frequencies above 1 GHz were averaged manually by narrowing the video filter down to 10 Hz and putting the sweep time on AUTO on the EMI Receiver to keep the amplitude reading calibrated.

The measurement bandwidths and transducers used for the radiated emissions test were:

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
9 kHz to 150 kHz	200 Hz	Active Loop Antenna
150 kHz to 30 MHz	9 kHz	Active Loop Antenna
30 MHz to 300 MHz	120 kHz	Biconical Antenna
300 MHz to 1 GHz	120 kHz	Log Periodic Antenna
1 GHz to 9.3 GHz	1 MHz	Horn Antenna

The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The gunsight method was used when measuring with the horn antenna in order to ensure accurate results. The loop antenna was also rotated in the horizontal and vertical axis in order to ensure accurate results.

7.1.3 Radiated Emissions (Spurious and Harmonics) Test (Continued)

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a 3 meter test distance to obtain the final test data. The final qualification data sheets are located in Appendix E.

Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, sections 15.205, 15.209, and 15.249.

8. CONCLUSIONS

The TAMI Telemetry System, Model: TU-4010 meets all of the **Class B** specification limits defined in CFR Title 47, Part 15, Subpart B for the digital portion; and the limits defined in Subpart C, sections 15.205, 15.209, and 15.249 for the transmitter portion.



APPENDIX A***LABORATORY RECOGNITIONS***

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400

LABORATORY RECOGNITIONS

Compatible Electronics has the following agency accreditations:

National Voluntary Laboratory Accreditation Program - Lab Code: 200528-0

Voluntary Control Council for Interference - Registration Numbers: R-983, C-1026, R-984 and C-1027

Bureau of Standards and Metrology Inspection - Reference Number: SL2-IN-E-1031

Conformity Assessment Body for the EMC Directive Under the US/EU MRA Appointed by NIST

Compatible Electronics is recognized or on file with the following agencies:

Federal Communications Commission

Industry Canada

Radio-Frequency Technologies (Competent Body)

APPENDIX B

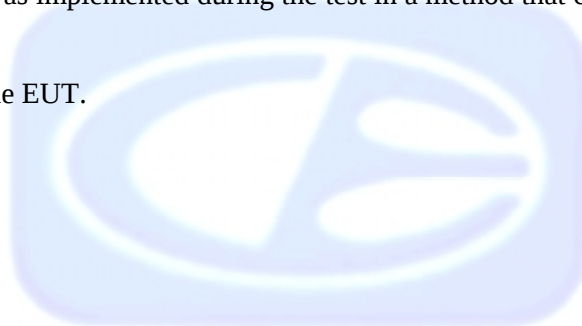
MODIFICATIONS TO THE EUT

MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC 15.249 or FCC Class B specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

No modifications were made to the EUT.



APPENDIX C

***ADDITIONAL MODELS COVERED
UNDER THIS REPORT***

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

TAMI Telemetry System
Model: TU-4010
S/N: N/A

There were no additional models covered under this report.



APPENDIX D

DIAGRAMS, CHARTS, AND PHOTOS

FIGURE 1: CONDUCTED EMISSIONS TEST SETUP

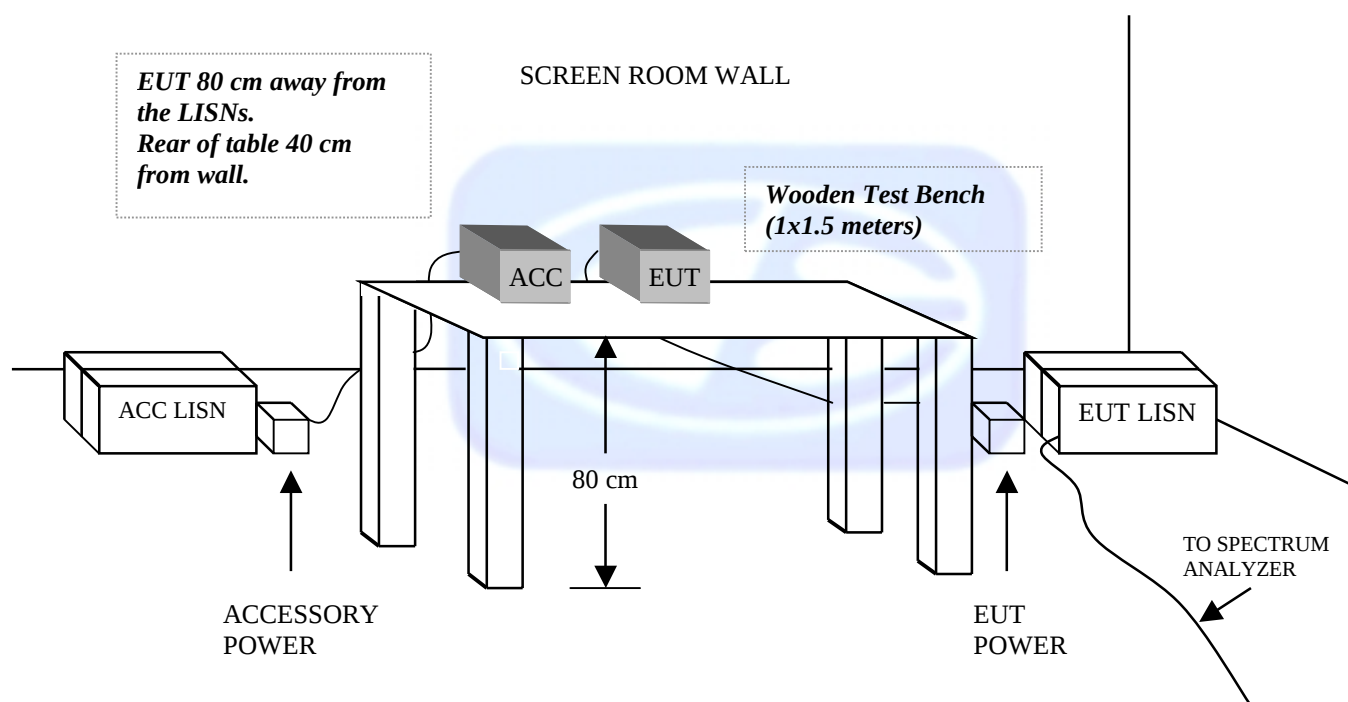
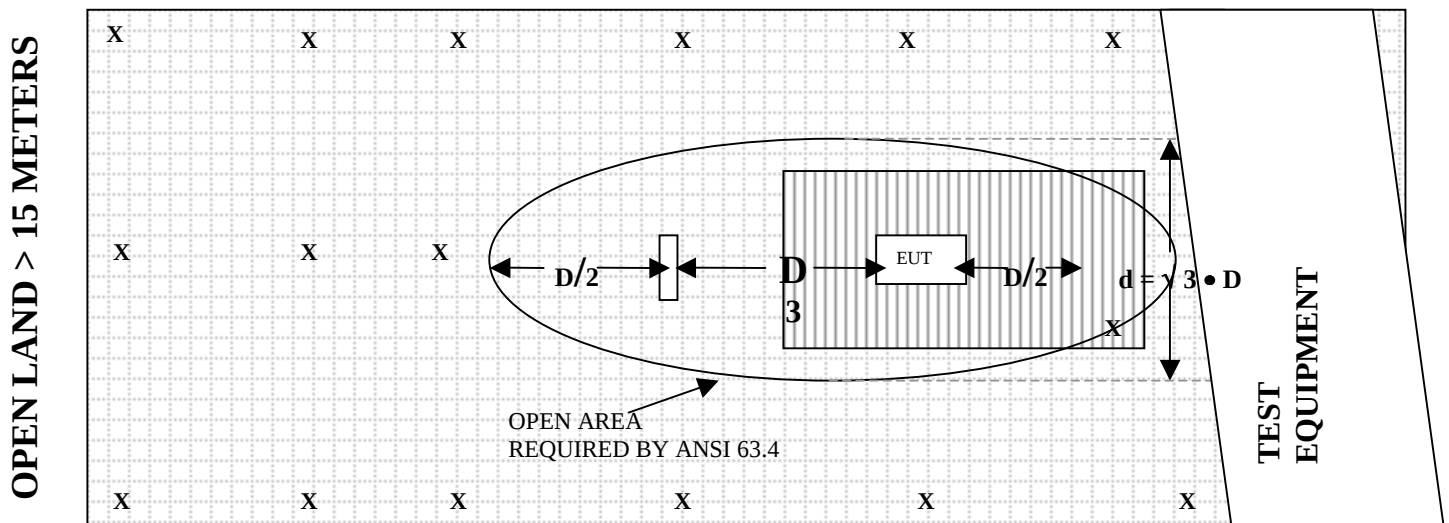
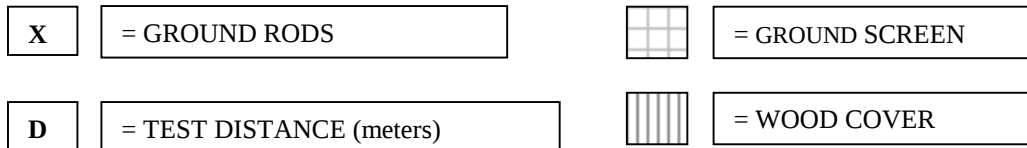


FIGURE 2: PLOT MAP AND LAYOUT OF 3 METER RADIATED SITE

OPEN LAND > 15 METERS



OPEN LAND > 15 METERS



COM-POWER AB-900

BICONICAL ANTENNA

S/N: 15227

CALIBRATION DATE: MARCH 8, 2007

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	12.6	100	12.3
35	10.0	120	14.7
40	9.5	140	13.0
45	9.2	160	13.7
50	9.4	180	16.4
60	7.4	200	17.2
70	6.5	250	14.6
80	7.0	275	19.0
90	8.0	300	22.3

COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 16060

CALIBRATION DATE: JULY 9, 2007

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
300	13.5	700	20.5
400	15.8	800	21.6
500	17.0	900	21.3
600	19.2	1000	22.2

COM-POWER PA-102**PREAMPLIFIER**

S/N: 1017

CALIBRATION DATE: JANUARY 16, 2007

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	38.4	300	38.2
40	38.3	350	38.2
50	38.2	400	38.1
60	38.3	450	37.8
70	38.4	500	37.8
80	38.6	550	38.1
90	38.3	600	37.8
100	38.4	650	37.8
125	38.3	700	37.6
150	38.2	750	37.9
175	38.4	800	37.6
200	38.4	850	37.2
225	38.4	900	37.4
250	38.3	950	37.0
275	38.3	1000	37.2

COM-POWER PA-122**PREAMPLIFIER****S/N: 181921****CALIBRATION DATE: FEBRUARY 27, 2007**

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	36.2	10.0	35.1
1.5	35.4	10.5	34.8
2.0	34.7	11.0	33.5
2.5	34.8	11.5	33.9
3.0	34.8	12.0	34.0
3.5	34.6	12.5	34.4
4.0	34.2	13.0	34.4
4.5	34.1	13.5	34.7
5.0	34.1	14.0	36.0
5.5	34.7	14.5	35.7
6.0	35.6	15.0	36.1
6.5	36.8	15.5	35.6
7.0	36.7	16.0	35.4
7.5	34.9	16.5	35.3
8.0	33.3	17.0	34.9
8.5	33.6	17.5	33.7
9.0	34.6	18.0	33.3
9.5	35.9		

ANTENNA RESEARCH DRG-118/A**HORN ANTENNA**

S/N: 1053

CALIBRATION DATE: MARCH 6, 2006

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	24.46	10.0	39.55
1.5	25.05	10.5	39.86
2.0	28.42	11.0	38.49
2.5	29.91	11.5	40.71
3.0	31.46	12.0	40.59
3.5	31.91	12.5	40.17
4.0	31.55	13.0	39.70
4.5	31.94	13.5	40.84
5.0	32.90	14.0	41.58
5.5	34.07	14.5	45.14
6.0	35.69	15.0	42.20
6.5	33.11	15.5	39.42
7.0	36.51	16.0	38.80
7.5	37.27	16.5	41.08
8.0	37.21	17.0	44.11
8.5	37.16	17.5	46.29
9.0	38.27	18.0	41.61
9.5	39.73		

COM-POWER AL-130**LOOP ANTENNA**

S/N: 17089

CALIBRATION DATE: SEPTEMBER 24, 2007

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	-41.27	10.23
0.01	-41.96	9.54
0.02	-41.73	9.77
0.05	-42.0	9.5
0.07	-41.5	10.0
0.1	-41.43	10.07
0.2	-43.9	7.9
0.3	-41.43	10.07
0.5	-41.40	10.1
0.7	-41.13	10.37
1	-40.83	10.67
2	-40.30	11.20
3	-40.60	10.90
4	-41.00	10.50
5	-40.20	11.30
10	-40.40	11.10
15	-41.67	9.83
20	-41.10	10.40
25	-42.80	8.70
30	-42.80	8.70



FRONT VIEW

CLINICAL INNOVATIONS, INC.
TAMI TELEMETRY SYSTEM
MODEL: TU-4010

FCC SUBPART B AND C – RADIATED EMISSIONS – LAB B

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400



REAR VIEW

CLINICAL INNOVATIONS, INC.
TAMI TELEMETRY SYSTEM
MODEL: TU-4010

FCC SUBPART B AND C – RADIATED EMISSIONS – LAB B

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
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(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400



FRONT VIEW

CLINICAL INNOVATIONS, INC.
TAMI TELEMETRY SYSTEM
MODEL: TU-4010

FCC SUBPART B AND C – RADIATED EMISSIONS – LAB D

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
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Silverado Division
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Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400



REAR VIEW

CLINICAL INNOVATIONS, INC.
TAMI TELEMETRY SYSTEM
MODEL: TU-4010

FCC SUBPART B AND C – RADIATED EMISSIONS – LAB D

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Brea Division
114 Olinda Drive
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Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
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Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400



FRONT VIEW

CLINICAL INNOVATIONS, INC.
TAMI TELEMETRY SYSTEM
MODEL: TU-4010

FCC SUBPART B AND C – CONDUCTED EMISSIONS LAB D – CHARGING MODE

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
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Lake Forest Division
20621 Pascal Way
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(949) 587-0400



REAR VIEW

CLINICAL INNOVATIONS, INC.
TAMI TELEMETRY SYSTEM
MODEL: TU-4010

FCC SUBPART B AND C – CONDUCTED EMISSIONS LAB D – CHARGING MODE

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400

APPENDIX E

DATA SHEETS

RADIATED EMISSIONS

DATA SHEETS

FCC 15.249

Clinical Innovations, Inc.
TAMI Telemetry System - Transmitter
Model: TU-4010

Date: 10/10/07
Labs: B and D
Tested By: Kyle Fujimoto

X-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
916.39	83.17	V	94	-10.83	Peak	1	180	
1832.78	41.13	V	74	-32.87	Peak	1.21	180	
1832.78	36.32	V	54	-17.68	Avg	1.21	180	
2749.17	47.22	V	74	-26.78	Peak	1.15	125	
2749.17	41.01	V	54	-12.99	Avg	1.15	125	
3665.56	52.38	V	74	-21.62	Peak	1.39	180	
3665.56	48.63	V	54	-5.37	Avg	1.39	180	
4581.95	45.68	V	74	-28.32	Peak	1.45	125	
4581.95	34.95	V	54	-19.05	Avg	1.45	125	
5498.34	44.76	V	74	-29.24	Peak	1.46	125	
5498.34	32.61	V	54	-21.39	Avg	1.46	125	
6414.73	46.11	V	74	-27.89	Peak	1.45	125	
6414.73	32.77	V	54	-21.23	Avg	1.45	125	
7331.12		V	74	-74	Peak			No Emissions
7331.12		V	54	-54	Avg			Detected
8247.51		V	74	-74	Peak			No Emissions
8247.51		V	54	-54	Avg			Detected
9163.9		V	74	-74	Peak			No Emissions
9163.9		V	54	-54	Avg			Detected

FCC 15.249

Clinical Innovations, Inc.
TAMI Telemetry System - Transmitter
Model: TU-4010

Date: 10/10/07
Labs: B and D
Tested By: Kyle Fujimoto

X-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
916.39	86.17	H	94	-7.83	Peak	1.25	135	
1832.78	39.61	H	74	-34.39	Peak	1.51	125	
1832.78	30.13	H	54	-23.87	Avg	1.51	125	
2749.17	47.84	H	74	-26.16	Peak	1.52	125	
2749.17	43.98	H	54	-10.02	Avg	1.52	125	
3665.56	50.89	H	74	-23.11	Peak	2.44	150	
3665.56	47.36	H	54	-6.64	Avg	2.44	150	
4581.95	45.91	H	74	-28.09	Peak	1.45	165	
4581.95	36.01	H	54	-17.99	Avg	1.45	165	
5498.34	45.03	H	74	-28.97	Peak	1.67	125	
5498.34	32.71	H	54	-21.29	Avg	1.67	125	
6414.73		H	74	-74	Peak			No Emissions
6414.73		H	54	-54	Avg			Detected
7331.12		H	74	-74	Peak			No Emissions
7331.12		H	54	-54	Avg			Detected
8247.51		H	74	-74	Peak			No Emissions
8247.51		H	54	-54	Avg			Detected
9163.9		H	74	-74	Peak			No Emissions
9163.9		H	54	-54	Avg			Detected

FCC 15.249

Clinical Innovations, Inc.
TAMI Telemetry System - Transmitter
Model: TU-4010

Date: 10/10/07
Labs: B and D
Tested By: Kyle Fujimoto

Y-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
916.39	86.33	V	94	-7.67	Peak	1	135	
1832.78	46.26	V	74	-27.74	Peak	1.43	90	
1832.78	43.02	V	54	-10.98	Avg	1.43	90	
2749.17	47.38	V	74	-26.62	Peak	1.26	135	
2749.17	43.36	V	54	-10.64	Avg	1.26	135	
3665.56	51.01	V	74	-22.99	Peak	2.01	125	
3665.56	47.25	V	54	-6.75	Avg	2.01	125	
4581.95	46.26	V	74	-27.74	Peak	1.31	125	
4581.95	36.98	V	54	-17.02	Avg	1.31	125	
5498.34	45.07	V	74	-28.93	Peak	1.36	150	
5498.34	32.94	V	54	-21.06	Avg	1.36	150	
6414.73		V	74	-74	Peak	1.35	45	No Emissions
6414.73		V	54	-54	Avg	1.35	45	Detected
7331.12		V	74	-74	Peak			No Emissions
7331.12		V	54	-54	Avg			Detected
8247.51		V	74	-74	Peak			No Emissions
8247.51		V	54	-54	Avg			Detected
9163.9		V	74	-74	Peak			No Emissions
9163.9		V	54	-54	Avg			Detected

FCC 15.249

Clinical Innovations, Inc.
TAMI Telemetry System - Transmitter
Model: TU-4010

Date: 10/10/07
Labs: B and D
Tested By: Kyle Fujimoto

Y-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
916.39	80.26	H	94	-13.74	Peak	1.25	45	
1832.78	40.37	H	74	-33.63	Peak	1.19	180	
1832.78	33.93	H	54	-20.07	Avg	1.19	180	
2749.17	48.51	H	74	-25.49	Peak	1.84	225	
2749.17	44.04	H	54	-9.96	Avg	1.84	225	
3665.56	53.56	H	74	-20.44	Peak	1.78	135	
3665.56	49.91	H	54	-4.09	Avg	1.78	135	
4581.95	47.85	H	74	-26.15	Peak	1.78	125	
4581.95	38.77	H	54	-15.23	Avg	1.78	125	
5498.34		H	74	-74	Peak			No Emissions
5498.34		H	54	-54	Avg			Detected
6414.73		H	74	-74	Peak			No Emissions
6414.73		H	54	-54	Avg			Detected
7331.12		H	74	-74	Peak			No Emissions
7331.12		H	54	-54	Avg			Detected
8247.51		H	74	-74	Peak			No Emissions
8247.51		H	54	-54	Avg			Detected
9163.9		H	74	-74	Peak			No Emissions
9163.9		H	54	-54	Avg			Detected

FCC 15.249

Clinical Innovations, Inc.
TAMI Telemetry System - Transmitter
Model: TU-4010

Date: 10/10/07
Labs: B and D
Tested By: Kyle Fujimoto

Z-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
916.39	79.24	V	94	-14.76	Peak	1	90	
1832.78	42.04	V	74	-31.96	Peak	1.71	125	
1832.78	36.73	V	54	-17.27	Avg	1.71	125	
2749.17	46.54	V	74	-27.46	Peak	2.03	135	
2749.17	37.78	V	54	-16.22	Avg	2.03	135	
3665.56	52.38	V	74	-21.62	Peak	1.97	125	
3665.56	49.25	V	54	-4.75	Avg	1.97	125	
4581.95	45.02	V	74	-28.98	Peak	1.97	125	
4581.95	34.8	V	54	-19.2	Avg	1.97	125	
5498.34	45.64	V	74	-28.36	Peak	1.38	180	
5498.34	32.67	V	54	-21.33	Avg	1.38	180	
6414.73	45.34	V	74	-28.66	Peak	1.65	135	
6414.73	32.8	V	54	-21.2	Avg	1.65	135	
7331.12		V	74	-74	Peak			No Emissions
7331.12		V	54	-54	Avg			Detected
8247.51		V	74	-74	Peak			No Emissions
8247.51		V	54	-54	Avg			Detected
9163.9		V	74	-74	Peak			No Emissions
9163.9		V	54	-54	Avg			Detected

FCC 15.249

Clinical Innovations, Inc.
TAMI Telemetry System - Transmitter
Model: TU-4010

Date: 10/10/07
Labs: B and D
Tested By: Kyle Fujimoto

Z-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
916.39	84.97	H	94	-9.03	Peak	1.25	135	
1832.78	40.15	H	74	-33.85	Peak	2.41	125	
1832.78	36.04	H	54	-17.96	Avg	2.41	125	
2749.17	49.57	H	74	-24.43	Peak	1.86	125	
2749.17	46.63	H	54	-7.37	Avg	1.86	125	
3665.56	51.89	H	74	-22.11	Peak	2.15	135	
3665.56	47.44	H	54	-6.56	Avg	2.15	135	
4581.95	48.64	H	74	-25.36	Peak	1.32	125	
4581.95	43.08	H	54	-10.92	Avg	1.32	125	
5498.34	45.74	H	74	-28.26	Peak	1.69	150	
5498.34	32.57	H	54	-21.43	Avg	1.69	150	
6414.73		H	74	-74	Peak			No Emissions
6414.73		H	54	-54	Avg			Detected
7331.12		H	74	-74	Peak			No Emissions
7331.12		H	54	-54	Avg			Detected
8247.51		H	74	-74	Peak			No Emissions
8247.51		H	54	-54	Avg			Detected
9163.9		H	74	-74	Peak			No Emissions
9163.9		H	54	-54	Avg			Detected

Clinical Innovations, Inc.
TAMI Telemetry System - Transmitter
Model: TU-4010

Date: 10/10/07
Labs: B and D
Tested By: Kyle Fujimoto

Digital Portion - 10 kHz to 9300 MHz - Vertical and Horizontal Polarizations
Non-Harmonic Emissions from the Tx - 10 kHz to 9300 MHz - Vertical and Horizontal Polarizations
Charging Mode -- 10 kHz to 9300 MHz - Vertical and Horizontal Polarizations
Note: The EUT Transmit Function is disabled when in Charging Mode

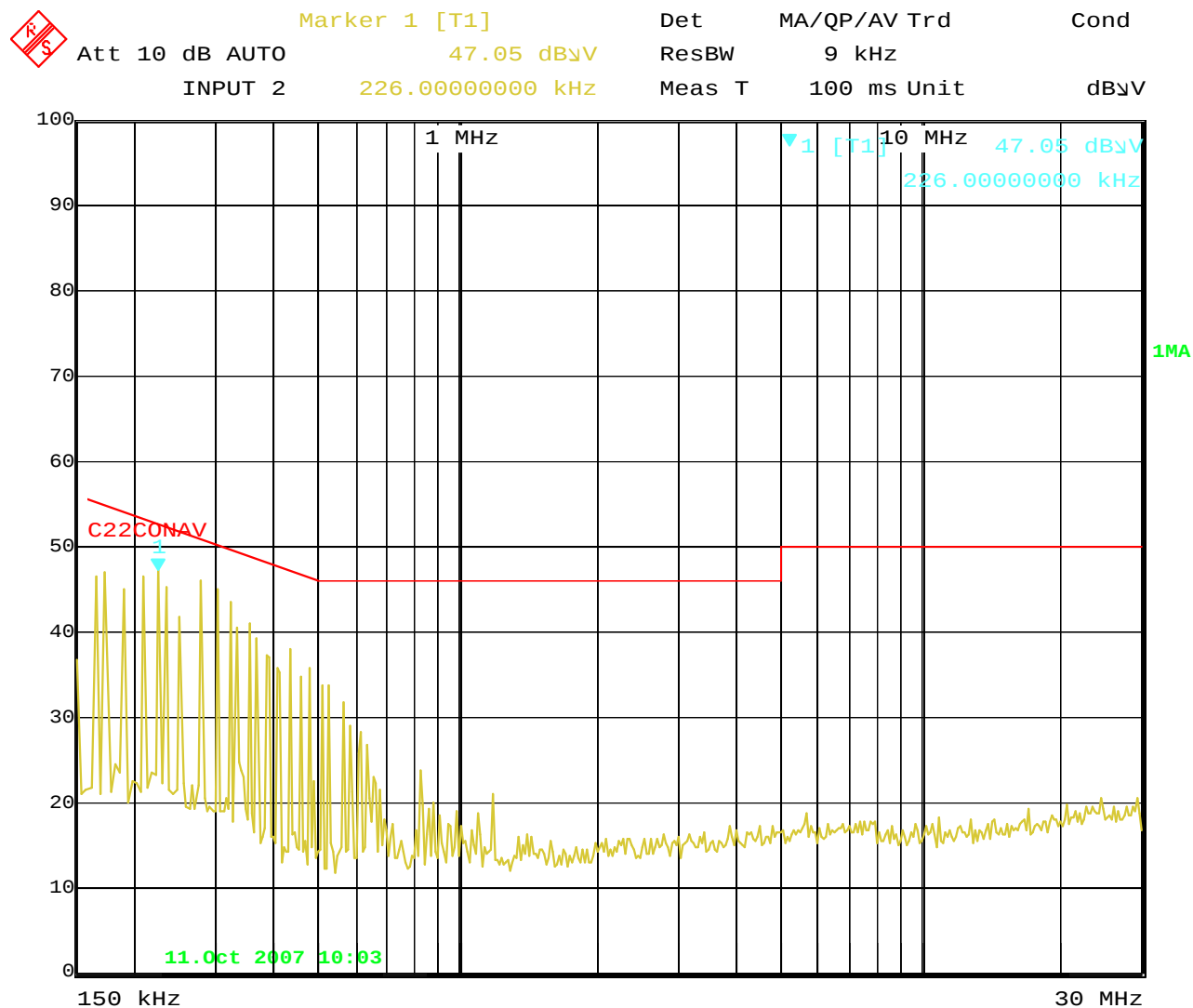
Worse Case Axis: Z-Axis

[illegible]

CONDUCTED EMISSIONS

DATA SHEETS

FCC Conducted Emissions
Clinical Innovations, Inc.
TAMI Telemetry System – Transmitter
Model: TU-4010
FCC Class B – Black Lead
Tested By: Kyle Fujimoto



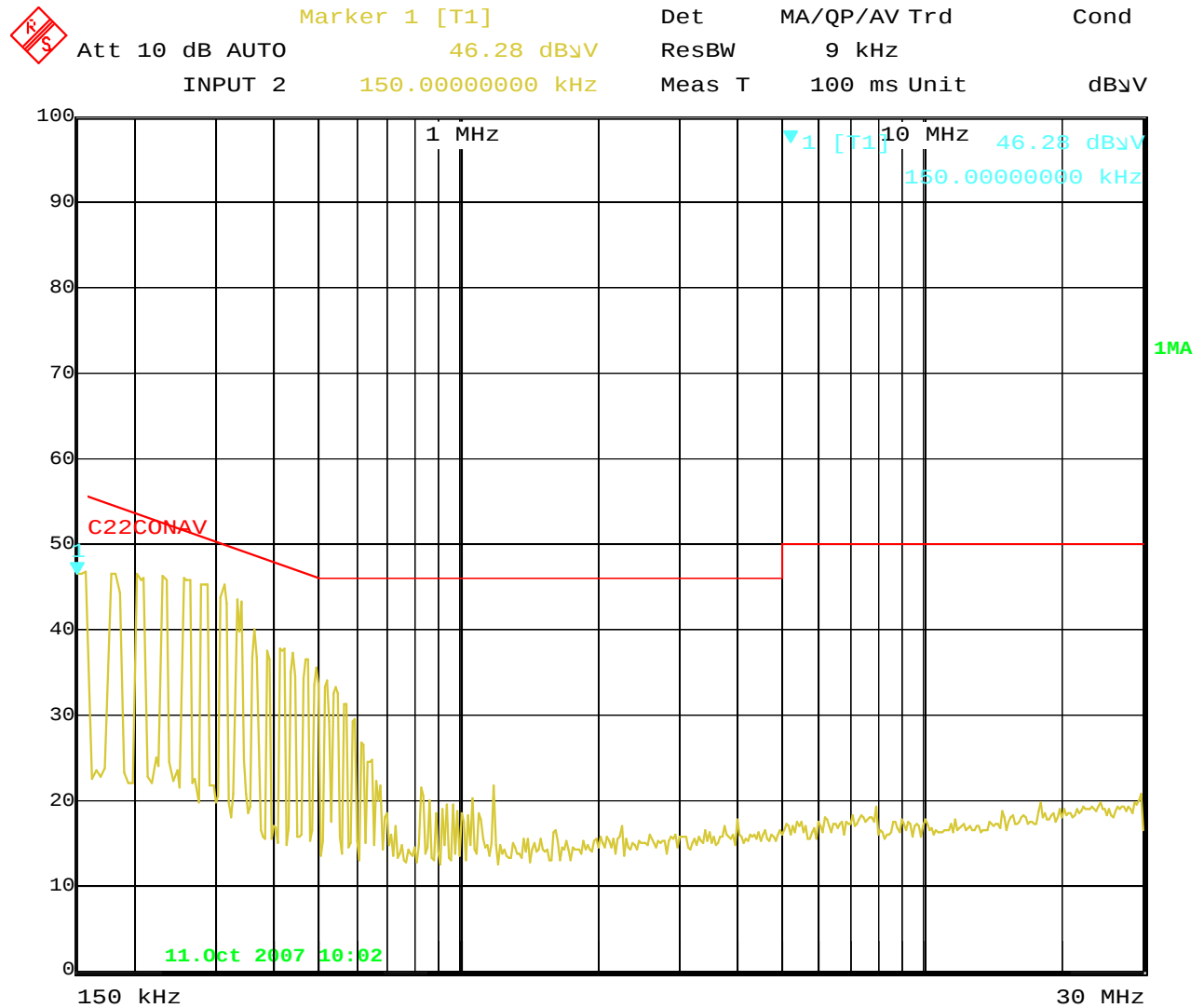
Date: 11.OCT.2007 10:03:37

FCC Conducted Emissions
 Clinical Innovations, Inc.
 TAMI Telemetry System – Transmitter
 Model: TU-4010
 FCC Class B – Black Lead
 Tested By: Kyle Fujimoto

EDIT PEAK LIST (Prescan Results)				
Trace1: C22CONAV		Trace2: ---		
Trace3: ---		Trace4: ---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB	
1 Max Peak	166.0000 KHz	46.35	-8.80	
1 Max Peak	174.0000 KHz	46.76	-7.99	
1 Max Peak	190.0000 KHz	44.87	-9.15	
1 Max Peak	210.0000 KHz	46.35	-6.84	
1 Max Peak	226.0000 KHz	47.04	-5.54	
1 Max Peak	234.0000 KHz	45.01	-7.29	
1 Max Peak	250.0000 KHz	41.70	-10.05	
1 Max Peak	278.0000 KHz	45.81	-5.06	
1 Max Peak	302.0000 KHz	44.86	-5.31	
1 Max Peak	322.0000 KHz	43.33	-6.31	
1 Max Peak	330.0000 KHz	40.36	-9.08	
1 Max Peak	354.0000 KHz	40.75	-8.11	
1 Max Peak	366.0000 KHz	39.05	-9.53	
1 Max Peak	382.0000 KHz	37.02	-11.20	
1 Max Peak	390.0000 KHz	36.77	-11.29	
1 Max Peak	406.0000 KHz	35.71	-12.01	
1 Max Peak	434.0000 KHz	37.90	-9.27	
1 Max Peak	458.0000 KHz	34.62	-12.10	
1 Max Peak	478.0000 KHz	35.57	-10.80	
1 Max Peak	510.0000 KHz	33.69	-12.30	

Date: 11.OCT.2007 10:03:57

FCC Conducted Emissions
Clinical Innovations, Inc.
TAMI Telemetry System – Transmitter
Model: TU-4010
FCC Class B – White Lead
Tested By: Kyle Fujimoto



Date: 11.OCT.2007 10:02:13

FCC Conducted Emissions
 Clinical Innovations, Inc.
 TAMI Telemetry System – Transmitter
 Model: TU-4010
 FCC Class B – White Lead
 Tested By: Kyle Fujimoto

EDIT PEAK LIST (Prescan Results)				
Trace1: C22CONAV		Trace2: ---		
Trace3: ---		Trace4: ---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB	
1 Max Peak	158.0000 kHz	46.55	-9.01	
1 Max Peak	182.0000 kHz	46.41	-7.97	
1 Max Peak	202.0000 kHz	46.41	-7.11	
1 Max Peak	230.0000 kHz	46.13	-6.31	
1 Max Peak	254.0000 kHz	45.98	-5.63	
1 Max Peak	286.0000 kHz	45.04	-5.59	
1 Max Peak	310.0000 kHz	45.04	-4.92	
1 Max Peak	338.0000 kHz	43.23	-6.01	
1 Max Peak	362.0000 kHz	39.99	-8.69	
1 Max Peak	386.0000 kHz	37.41	-10.73	
1 Max Peak	418.0000 kHz	37.53	-9.95	
1 Max Peak	438.0000 kHz	37.15	-9.94	
1 Max Peak	470.0000 kHz	36.38	-10.12	
1 Max Peak	490.0000 kHz	35.32	-10.84	
1 Max Peak	518.0000 kHz	33.83	-12.16	
1 Max Peak	542.0000 kHz	33.04	-12.95	
1 Max Peak	566.0000 kHz	31.17	-14.82	
1 Max Peak	594.0000 kHz	29.34	-16.65	
1 Max Peak	618.0000 kHz	26.69	-19.30	
1 Max Peak	646.0000 kHz	24.57	-21.42	

Date: 11.OCT.2007 10:02:40