

### FCC CFR47 PART 95H REQUIREMENT

### **CERTIFICATION TEST REPORT**

FOR

TRANSMITTER FOR MEDICAL

MODEL: ZM-931PA

FCC ID: B6BZM-931PA

**REPORT NUMBER: 10J13419-4A** 

**ISSUE DATE: OCTOBER 21, 2010** 

Prepared for NIHON KOHDEN CORPORATION 1-31-4, NISHIOCHIAI SHINJUKU-KU TOKYO 161-8560, JAPAN

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(R)

NVLAP LAB CODE 200065-0

**Revision History** 

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### **1. ATTESTATION OF TEST RESULTS**

COMPANY NAME:	NIHON KOHDEN CORPORATION 1-31-4, NISHIOCHIAI SHINJUKU-KU TOKYO 161-8560, JAPAN	
EUT DESCRIPTION:	TRANSMITTER FOR MEDICAL	
MODEL:	ZM-931PA	
SERIAL NUMBER:	00299	
DATE TESTED:	SEPTEMBER 27-28, 2010	
	APPLICABLE STANDARDS	
S	TANDARD	TEST RESULTS
FCC PAF	RT 95 SUBPART H	Pass

Compliance Certification Services, Inc. (CCS) tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by CCS based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

**Note**: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by CCS and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by CCS will constitute fraud and shall nullify the document. No part of this report may be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any government agency.

Approved & Released For CCS By:

Tested By:

THU CHN DIRECTOR OF ENGINEERING COMPLIANCE CERTIFICATION SERVICES

Chin Pany

CHIN PANG EMC ENGINEER COMPLIANCE CERTIFICATION SERVICES

# 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI/TIA-603-C-2004, FCC CFR 47 Part 2 and FCC CFR 47 Part 95.

# 3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <u>http://www.ccsemc.com</u>.

# 4. CALIBRATION AND UNCERTAINTY

## 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

## 4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Power Line Conducted Emission	+/- 2.3 dB
Radiated Emission	+/- 3.4 dB

Uncertainty figures are valid to a confidence level of 95%.

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## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

a). b). c). d). e). f).	Type of EUT: Brand Name: Model No: FCC ID: Battery Type: Channel Number:	WMTS TRANSMITTER NIHON KOHDEN ZM-931PA B6BZM-931PA Two AA (R6) 1395.0250 MHz (channel number E002) to 1399.9750 MHz (channel number E398), and 1427.0250 MHz (channel number E502) to 1431.9750 MHz (channel number E898)
g).	Frequency Range:	1395.025-1399.975 MHz and 1427.025-1431.975 MHz bands
h).	RF Conducted Output Power:	5mW (factory default setting) or 1mW
i).	Channel Spacing:	50 KHz or 37.5 kHz (12.5 KHz when interleave)
j).	Modulation	Frequency Shift Keying
k).	Type of Modulation:	F1D
I).	Occupied Bandwidth	<20 kHz
m).	Antenna Type:	Internal

### 5.2. DESCRIPTION OF CLASS II PERMISSIVE CHANGE

The major change filed under this application is changing the antenna.

### 5.3. MAXIMUM OUTPUT POWER

The test measurement passed within  $\pm 0.5$ dBm of the original output power

### 5.4. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a Helical Monopole antenna, with a maximum gain of 0 dBi.

### 5.5. SOFTWARE AND FIRMWARE

The test utility software used during testing was Channel Writer, rev. 02-04.

### 5.6. WORST-CASE CONFIGURATION AND MODE

The worst-case channel is determined as the channel with the highest output power.

During emission tests the antenna orientations as X, Y, and Z were investigated to determine the worst-case. The outcome showed that X-orientation as the worst-case.

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## 5.7. DESCRIPTION OF TEST SETUP

#### SUPPORT EQUIPMENT

	PERIF	HERAL SUPPOR	RT EQUIPMENT LIST	
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop	Lenovo	T61	L3-A1589	DoC
AC/DC Adapter	Lenovo	PA-1650-171	11S92P1160Z1ZBGH74LH2M	DoC
Channel Writer	Nihon Kohden	QI-901PK	28	N/A

#### I/O CABLES

			I/O (	CABLE LIST		
Cable	Port	# of	Connector	Cable	Cable	Remarks
No.		Identic	Туре	Туре	Length	
		Ports				
1	AC	1	US115V	Un-shielded	1m	N/A
2	DC	1	DC	Un-shielded	1.8m	Ferrite on laptop's end
3	USB	1	USB	Shielded	2m	No
4	ECG	1	Channel Writer	Un-shielded	0.3m	No
5	ECG	1	ECG	Un-shielded	0.7 m	N/A
6	Sp02	1	Sp02	Un-shielded	1.6 m	Probe

#### TEST SETUP

The EUT is standalone unit and just use a host laptop computer to configure the mode during the tests. Test software exercised the radio card.

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#### SETUP DIAGRAM FOR TESTS ( RADIATED TEST )



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# 6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

	TEST EQUIPMEN	IT LIST		
Description	Manufacturer	Model	Asset	Cal Due
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01176	8/102011
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00778	01/16/11
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01011	07/12/11
Antenna, Horn, 18 GHz	EMCO	3115	C00783	06/29/11
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01063	07/14/11

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# 7. RADIATED EMISSION TEST RESULTS

#### LIMITS

§95.115

(a) Field strength limits

(2) In the 1395–1400 MHz and 1427–1429.5 MHz bands, the maximum allowable field strength is 740 mV/m as measured at a distance of 3 meters, using measuring equipment with an averaging detector and a 1 MHz measurement bandwidth.

(b) Undesired emissions.

(1) Out-of-band emissions below 960 MHz are limited to 200 microvolts/meter, as measured at a distance of 3 meters, using measuring instrumentation with a CISPR quasi-peak detector.
(2) Out-of-band emissions above 960 MHz are limited to 500 microvolts/meter as measured at a distance of 3 meters, using measuring equipment with an averaging detector and a 1 MHz measurement bandwidth.

#### TEST PROCEDURE

ANSI/TIA-603-C-2004

**RESULTS** 

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## 7.1. FUNDAMENTAL OUTPUT POWER

Complian	High F ice Certifi	requency M ation Servi	easurem ces, Fren	ient nont 5m	ı Chamb	er					
Company	:	Nihon Koh Madiaal T	iden	т							
EUI Des Proiect #	cription:		elemetry	Tansn	uuer						
Fiujeti#. Dato:	•	10313419									
Test Engi	ineer:	Chin Pang									
Configura	tion:	EUT Only									
Model:		ZM-931PA									
Mode:		ТХ									
f	Dist	Read Pk	AF	CL	Amp	D Corr	Fltr	Peak	Avg Limit	Margin	Notes
GHz	(m)	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dB	(V/H)
1.395	3.0	64.4	25.4	2.6	0.0	0.0	0.0	92.3	117.4	-25.1	v
1.395	3.0	GO9	25.4	2.6	0.0	Q.O	0.0	87.9	117.4	-29.5	Н
L <i>.</i> 400	3.0	63.5	25.4	2.6	0.0	0.0	0.0	91.5	117.4	-25.9	v
1.400	3.0	65.0	25.4	2.6	0.0	0.0	0.0	93.0	117.4	-24,4	Н
1.427	3.0	61.7	25.5	2.6	0.0	0.0	0.0	89.8	117.4	-27.6	v
1.427	3.0	64.1	25.5	2.6	0.0	0.0	0.0	92.2	117.4	-25.2	Н
1.432	3.0	65.0	25.5	2.6	0.0	0.0	0.0	93.1	117.4	-24.3	v
1.432	3.0	63.3	25.5	2.6	0.0	0.0	0.0	91.4	117.4	-26.0	H
						<u> </u>		<u> </u>	<u> </u>		
	f	Measureme	ent Freque	ency	Amp	Preamp G	ain			Average Field	Strength Limit
	Dist	Distance to	Antenna		D Corr	Distance C	Correct to 3	meters		Peak Field Str	ength Limit
	Read	Analyzer R	eading		Avg	Average F	ield Strengt	h@3m		Margin vs. Ave	erage Limit
	AF	Antenna Fa	ictor		Peak	Calculated	Peak Field	Strength		Margin vs. Pea	k Limit
		C1 1 1 T			TIDE	TT 1 D	T. 11.				

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## 7.2. RADIATED EMISSIONS BELOW 960 MHz

Note 1: The measurements in this section show that Peak values are less than the Quasi-Peak limit.

Note 2: Plots in the range of 960 to 100 MHz in this section are shown for reporting purposes only.

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#### SPURIOUS EMISSIONS 30 TO 960 MHz (DATA)

1395.025MHz

Fest Engr:		Chin Par	ıg													
Date:		09/27/10														
Project #:		10J13419	•													
Company:		Nihon Ko	hden													
		Medical 1	felemetr	y Tran	smitter											
Fest Targer	t:	FCC Par	t 95H													
Model:		ZM-931P	A													
Mode Oper	r:	TX, 1395.	025MHz													
	f	Measurem	ent Fregu	ency	Amp	Preamp (	Fain			Margin	Margin vs.	Limit				
	Dist	Distance t	o Antenn	ia j	D Corr	Distance	Correct	to 3 meters								
Read AF		Analyzer l	Reading		Filter	Filter Ins	Calculated Field Strength									
		Antenna F	Factor 0		Corr.	Calculate										
	CL	Cable Loss	5		Limit	Field Stre	Field Strength Limit									
f	Dist	Read	AF	CL	Amp	D Corr	D Corr Pad Corr. Limit Margin Ant. Pol. Det.									
MHz	(m)	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dB	V/H	P/A/QP				
1.042	3.0	39.7	8.2	0.7	29.6	0.0	0.0	19.0	46.0	-27.0	v	Р				
95.643	3.0	40.8	9.0	0.9	29.5	0.0	0.0	21.1	46.0	-24.9	v	P				
171.486	3.0	39.1	10.1	1.2	29.2	0.0	0.0	21.1	46.0	-24.9	V	P				
973.719	3.0	35.7	22.3	3.2	28.4	0.0	0.0	32.7	46.0	-13.3	V	Р				
	3.0	36.4	22.4	3.2	28.4	0.0	0.0	33.7	46.0	-12.3	V	P				
985.599	2.0	37.6	8.2	0.7	29.6	0.0	0.0	16.9	46.0	-29.1	H	P				
985.599 70.922	. J.U			10	29.4	0.0	0.0	15.0	46.0	-31.0	H	Р				
985.599 70.922 126.604	3.0	29.6	13.8	. 1.0												

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#### SPURIOUS EMISSIONS 30 TO 960 MHz (PLOTS)





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#### SPURIOUS EMISSIONS 30 TO 960 MHz (DATA)

1399.975MHz

Complian	Hz Frequ ce Certif	ency Meas ication Se:	uremen rvices, Fi	t remoni	t 5m Cha	amber							
Taet From		Chin Par	1.97										
Doto:		09/27/10	-6										
Draie. Praiect #.		10.113419											
Company		Nihon Ko	hdan										
FIT Descr	intion:	Medical 1	Folomotr	w Tran	emitter								
Test Targe	+•	FCC Par	95H	,	- manei								
Madal.		ZM.931P	A										
Mode One	т:	TX. 1399.9	 975MHz										
invac ope													
	f	Measurem	ent Frequ	ency	Amp	Preamp G	ain			Margin	Margin vs.	Limit	
	Dist	Distance t	o Antenn	a	D Corr	Distance							
		Analyzer Reading Filter Filter Insert Loss											
	Read	Analyzer l	Reading		Filter	Filter Inse	ert Loss						
	Read AF	Analyzer I Antenna F	Reading <sup>r</sup> actor		Filter Corr.	Filter Inse Calculated	ert Loss I Field S	trength					
	Read AF CL	Analyzer I Antenna F Cable Loss	Reading "actor ;		Filter Corr. Limit	Filter Inse Calculated Field Stree	ert Loss I Field S ngth Lii	trength mit					
	Read AF CL	Analyzer l Antenna F Cable Loss	Reading Factor ;		Filter Corr. Limit	Filter Inse Calculated Field Stre:	ert Loss I Field S ngth Lii	trength mit					
f	Read AF CL Dist	Analyzer I Antenna F Cable Loss <b>Read</b>	Reading Factor , <b>AF</b>	CL	Filter Corr. Limit Amp	Filter Inse Calculated Field Stre: D Corr	ert Loss I Field S ngth Lii <b>Pad</b>	trength mit <b>Corr.</b>	Limit	Margin	Ant Pol	Det.	Notes
f MHz	Read AF CL Dist (m)	Analyzer I Antenna F Cable Loss <b>Read</b> <b>dBuV</b>	Reading Factor AF dB/m	CL dB	Filter Corr. Limit Amp dB	Filter Inse Calculated Field Stre: D Corr dB	ert Loss I Field S ngth Lir Pad dB	trength mit Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. Pol. V/H	Det. P/A/QP	Notes
f MHz horiz	Read AF CL Dist (m)	Analyzer I Antenna F Cable Loss <b>Read</b> <b>dBuV</b>	Reading Factor AF dB/m	CL dB	Filter Corr. Limit Amp dB	Filter Inse Calculated Field Stre: D Corr dB	ert Loss I Field S ngth Lin Pad dB	trength mit Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant Pol V/H	Det. P/A/QP	Notes
f MHz horiz 55.081	Read AF CL Dist (m) 3.0	Analyzer I Antenna F Cable Loss Read dBuV 38.9	AF dB/m 7.9	CL dB 0.6	Filter Corr. Limit Amp dB 29.6	Filter Inse Calculated Field Stre: D Corr dB 0.0	ert Loss I Field S ngth Lin Pad dB 0.0	trength mit Corr. dBuV/m 17.8	Limit dBuV/m 46.0	Margin dB -28.2	Ant. Pol. V/H H	Det. P/A/QP	Notes
f MHz horiz \$5.081 [19.404	Read AF CL Dist (m) 3.0 3.0	Analyzer I Antenna F Cable Loss Read dBuV 38.9 31.1	AF AF dB/m 7.9 13.6	CL dB 0.6 1.0	Filter Corr. Limit Amp dB 29.6 29.5	Filter Inse Calculated Field Stre: D Corr dB 0.0 0.0	ert Loss I Field S ngth Lin Pad dB 0.0 0.0	trength nit Corr. dBuV/m 17.8 16.2	Limit dBuV/m 46.0 46.0	Margin dB -28.2 -29.8	Ant Pol V/H H H	Det. P/A/QP P P	Notes
f MHz 55.081 119.404 597.468	Read AF CL (m) 3.0 3.0 3.0 3.0	Analyzer I Antenna F Cable Loss Read dBuV 38.9 31.1 31.8	Reading Factor AF dB/m 7.9 13.6 19.2	CL dB 0.6 1.0 2.6	Filter Corr. Limit Amp dB 29.6 29.5 29.6	Filter Inse Calculated Field Stre: D Corr dB 0.0 0.0 0.0 0.0	ert Loss l Field S ngth Lin Pad dB 0.0 0.0 0.0	trength mit Corr. dBuV/m 17.8 16.2 24.1	Limit dBuV/m 46.0 46.0 46.0	Margin dB -28.2 -29.8 -21.9	Ant Pol V/H H H H	Det. P/A/QP P P P P	Notes
f MHz horiz 55.081 119.404 \$97.468 96.483 1026.044	Read AF CL <b>Dist</b> (m) 3.0 3.0 3.0 3.0	Analyzer I Antenna F Cable Loss Read dBuV 38.9 31.1 31.8 41.3 22.7	Reading factor dB/m 7.9 13.6 19.2 9.2	CL dB 0.6 1.0 2.6 0.9	Filter Corr. Limit <b>Amp</b> dB 29.6 29.5 29.6 29.5	Filter Inse Calculated Field Stree D Corr dB 0.0 0.0 0.0 0.0 0.0 0.0	ert Loss l Field S ngth Lin <b>Pad</b> <b>dB</b> 0.0 0.0 0.0 0.0	trength mit Corr. dBuV/m 17.8 16.2 24.1 21.8 21.8	Limit dBuV/m 46.0 46.0 46.0 46.0	Margin dB -28.2 -29.8 -21.9 -24.2 -24.2	Ant Pol V/H H H H V	Det. P/A/QP P P P P P P	Notes
f MHz horiz 55.081 119.404 697.468 96.483 125.044 125.044 195.367	Read AF CL Dist (m) 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Analyzer I Antenna F Cable Loss Read dBuV 38.9 31.1 31.8 41.3 3.7 35.6	Reading actor AF dB/m 7.9 13.6 19.2 9.2 13.8 11.6	CL dB 0.6 1.0 2.6 0.9 1.0	Filter Corr. Limit <b>Amp</b> <b>dB</b> 29.6 29.5 29.6 29.5 29.6 29.5 29.4 29.4	Filter Inse Calculated Field Stree 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	ert Loss l Field S ngth Lin Pad dB 0.0 0.0 0.0 0.0 0.0 0.0	trength mit Corr. dBuV/m 17.8 16.2 24.1 21.8 19.1 19.6	Limit dBuV/m 46.0 46.0 46.0 46.0 46.0 46.0	Margin dB -28.2 -29.8 -21.9 -24.2 -26.9 -26.4	Ant Pol V/H H H V V V	Det. P/A/QP P P P P P P P P P	Notes

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#### SPURIOUS EMISSIONS 30 TO 960 MHz (PLOTS)





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#### SPURIOUS EMISSIONS 30 TO 960 MHz (DATA)

1427.025MHz

Combinan	Hz Frequ ce Certit	ency Meas lication Ser	urement rvices, Fi	emon	t 5m Chi	amber							
Test Engr: Date: Project #: Company: EUT Descr Test Targe Model: Mode Ope	t Engr: Chin Pang e: 09/27/10 ject #: 10J13419 mpany: Nihon Kohden Description: Medical Telemetry Tra t Target: FCC Part 95H lel: ZM-931PA le Oper: TX, 1427.025MHz				smitter								
	f Dist Read AF CL	Measurem Distance to Analyzer H Antenna F Cable Loss	ent Frequ o Antenn Reading 'actor	ency a	Amp D Corr Filter Corr. Limit	Preamp C Distance Filter Inse Calculatee Field Stre	Gain Correct ert Loss d Field S ngth Lir	to 3 meters trength mit		Margin	Margin vs.	Limit	
f MHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Pad dB	Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. Pol. V/H	Det. P/A/QP	Notes
96.363	3.0	40.5	9.1	0.9	29.5	0.0	0.0	21.0	46.0	-25.0	V	P	
105 004	3.0	33.0	13.8	1.0	29.4	0.0	0.0	18.4	40.0	-27.0	v v	P	
125.284		35.8	20.7	1.5	28.9	0.0	0.0	19./	40.0	-20.3	v v	P	
125.284 195.367	3.0	26.6		÷.0	47.4	0.0	0.0	30.8	40.0	-17.4	V TT	r	
125.284 195.367 782.551 53.401	3.0	36.6	20.7 7 G	0.6	20.6			· 14 ×	: 46 11				
125.284 195.367 782.551 53.401 95.043	3.0 3.0 3.0	36.6 35.9 35.2	7.9	0.6 n o	29.6 29.5	0.0	0.0	14.8	46.0	-31.2	п	P	

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#### SPURIOUS EMISSIONS 30 TO 960 MHz (PLOTS)





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#### SPURIOUS EMISSIONS 30 TO 960 MHz (DATA)

1431.975MHz

Complian	ce Certif	lication Se	rvices, F	remon	t 5m Cha	amber							
Test Engr: Date: Project #: Company: EUT Description: Test Target: Model: Model Oper:		Chin Pang 09/27/10 10.113419 Nihon Kohden Medical Telemetry Transmitter FCC Part 95H ZM-931PA TX, 1431.975MHz											
	f Dist Read AF CL	Measurement Frequency Distance to Antenna Analyzer Reading Antenna Factor Cable Loss			Amp D Corr Filter Corr. Limit	Preamp Gain Distance Correct to 3 meters Filter Insert Loss Calculated Field Strength Field Strength Limit				Margin	Margin Margin vs. Limit		
f MHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Pad dB	Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. Pol. V/H	Det. P(A(OP	Notes
			- up an				<u></u>		- abarnin			1	
96.243	3.0	40.1	9.1	0.9	29.5	0.0	0.0	20.5	46.0	-25.5	V	P	
95.367	3.0	35.8	11.6	1.3	28.9	0.0	0.0	19.8	46.0	-26.2	V	Р	
07 070	3.0	33.2	22.4	3.2	28.4	0.0	0.0	30.4	46.0	-15.6	V	P	
182.929	3.0	35.3	13.1	1.1	29.4	0.0	0.0	20.1	46.0	-25.9	H	P	
42.085	· .1.II	30.0	10.5	1.2	29.3	0.0	0.0	18./	40.0	-47.3	п	r P	
985.959 142.085 168.726 713.548	3.0	1 10 March 10									**		

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#### SPURIOUS EMISSIONS 30 TO 960 MHz (PLOTS)





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### 7.3. RADIATED EMISSIONS ABOVE 960 MHz

#### HARMONICS AND TX SPURIOUS EMISSIONS ABOVE 960 MHz

Compliance	Certification	Services, Freir	iont 5m Ch	amber									
Company:		Nihon Kohde	n										
EUT Description:		Medical Telemetry Transmitter											
roject #:		10J13419											
ate:		09/25/10											
est Engine	eer:	Chin Pang											
onfiguratio	on:	EUT Only											
Iodel:		ZM-931PA											
lode:		TX											
est Equipi	<u>nent:</u>				_								
Horn	1-18GHz	Pre-a	mplifer	1-26G	Hz P	Pre-amplifer 26-40GHz			Hom		Limit		
T59; S/N:	3245 @3m	- T145 /	Agilent 3	008A00	56 🖵			-			-	FCC 95H	
- Hi Frequenc	y Cables												
3' cable 22807700		12' cable 22807600				20' cable :	22807500	HP	Re	eject Filte	r <u>Peak</u> RB	<u>Peak Measurements</u> RBW=VBW=1MHz	
3' cable	e 22807700	• 12' ca	able 2280	7600	-	20' cable 22	807500	HPF_150	λż.		Avera RBW=	<u>ge Measurements</u> 1MHz ; VBW=10Hz	
f	Dist	Read	AF	CL	Amp	D Corr	Fltr	Corr.	Limit	Det.	Margin	Notes	
GHz	(m)	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	P/A/QP	dB	(V/H)	
395.025MHz													
.791 185	3.0	42.4	29.4	4.2	-35.2	0.0	0.0	41.3	54	A	-12.7	V	
.165 .580	30 30	37.8	33.6	63	-34.0 -35.0	0.0	0.5	44.0	54 54	A	-9.4	v	
.791	3.0	41.5	29.4	4.2	-35.2	0.0	0.0	40.4	54	A	-13.6	H	
.185	3.0	40.2	32.3	53	-34.8	0.0	0.0	43.6	54	A	-10.4	Н	
.580	3.0	37.6	33.6	63	-35.0	0.0	0.5	43.0	54	A	-11.0	Н	
399.975MHz	<u> </u>												
.800	3.0	42.3	29.4	4.2	-35.2	0.0	0.6	41.3	54	A	-12.7	v	
.600	3.0	40.4	33.6	6.3	-35.0	0.0	0.5	45.8	54	A	-8.2	v	
.000	3.0	38.5	34.8	7.1	-34.7	0.0	0.6	46.2	54	A	-7.8	v	
.800	3.0	41.0	29.4	4.2	-35.2	0.0	0.0	40.0	54	A	-14.0	H	
.200	3.U 3.D	38.0	32.3	53	-34.8	0.0	U.0 0.5	42.0	54	A	-12,0	H	
										ļ	-1000		
427.025MHz	20	42.5	20.6	4.2	25.2	0.0	0.6	427	54		11.2	v	
.034 .281	30 30	43.5	29.0 32.3	4.2 5.4	-35.2	0.0	0.0 7 N	42.7	54 54	A	-11-3	v v	
.708	3.0	38.2	33.7	6.4	-35.1	0.0	0.5	43.6	54	A	-10.4	v	
.854	3.0	41.8	29.6	4.2	-35.2	0.0	0.6	41 <i>.</i> 0	54	A	-13.0	H	
.281	3.0	40.6	32.3	5.4	-34.8	0.0	6.0	44.1	54	A	-9 <i>9</i>	H	
.708	3.0	38.9	33.7	6.4	-35.1	0.0	0.5	44.3	54	A	-9.7	Н	
431.975MHz	, ,	1			•				1	•			
	3.0	42.5	29.6	4.2	-35.2	0.0	0.0	41.7	54	A	-12.3	v	
864	3.0	39.0	32.4	5.4	-34.8	0.0	0.0	42.6	54	A	-114	V	
.864 .296 .728	: 30	39.5	20.6	0.4	-35.1	0.0	0.5	44.9 30.4	54	A	-9.1	ү Н	
864 .296 .728 864	3.0	- 411.Z						41.4				**	
864 296 .728 .864 .296	3.0 3.0	40.2	32.4	5.4	-34.8	0.0	0.0	41.0	54	A	-12.4	н	