



Compliance Testing, LLC

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toll-free: (866) 311-3268

fax: (480) 926-3598

<http://www.ComplianceTesting.com>

info@ComplianceTesting.com

Test Report

Prepared for: JVC Kenwood Corporation

Model: NX-820H-K2 / NX-820HG-K2

Description: UHF Digital Transceiver

To

FCC Part 1.1310

Date of Issue: August 24, 2012

On the behalf of the applicant:

JVC Kenwood Corporation
1-16-2, Hakusan Midori-ku
Yokohama, Kanagawa 226-8525

Attention of:

Tamaki Shimamura, Manager
Ph: +81 45 939 6254
E-Mail: shimamura.tamaki@jvckenwood.com

Prepared By
Compliance Testing, LLC
3356 N San Marcos Pl, Suite 107
Chandler, AZ 85225-7176
(866) 311-3268 phone / (480) 926-3598 fax
www.compliancetesting.com
Project No: p1280010

John Erhard
Project Test Engineer

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	August 24, 2012	John Erhard	Original Document
2.0	September 6, 2012	John Erhard	Clarify the test report detailing how the 50% duty factor was applied. Edit antenna information.



ILAC / A2LA

Compliance Testing, LLC, has been 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 joint ISO-ILAC-IAF Communiqué dated January 2009)

The tests results contained within this test report all fall within our scope of accreditation, unless below

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Testing Certificate Number: **2152.01**



FCC OATS Reg, #933597

IC Reg. #2044A-1

Non-accredited tests contained in this report:

N/A



Measurement Description

The EUT was placed inside an anechoic chamber at a height of 1.2 meters to simulate being mounted on a vehicle. The isotropic probe was placed a distance of 40 cm from the EUT and the power density was measured at 0.2m increments from 0.2m to 2.0m with the peak value from each location being recorded in the corresponding data tables.

The general population limit was applied to all measurements.

The EUT is a PTT radio for mobile application with a peak power of 45W. By allowing for an operational 50% duty factor the power was reduced to 22.5W for testing purposes yet transmitted continuously during the test. A 0 dBd antenna was utilized for testing.

Measurement Result

406.15 MHz

Probe Height (m)	Peak Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
0.2	0.01	0.27	Pass
0.4	0.01	0.27	Pass
0.6	0.00	0.27	Pass
0.8	0.02	0.27	Pass
1.0	0.04	0.27	Pass
1.2	0.02	0.27	Pass
1.4	0.08	0.27	Pass
1.6	0.05	0.27	Pass
1.8	0.01	0.27	Pass
2.0	0.02	0.27	Pass

413 MHz

Probe Height (m)	Peak Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
0.2	0.01	0.275	Pass
0.4	0.01	0.275	Pass
0.6	0.01	0.275	Pass
0.8	0.03	0.275	Pass
1.0	0.05	0.275	Pass
1.2	0.08	0.275	Pass
1.4	0.07	0.275	Pass
1.6	0.01	0.275	Pass
1.8	0.02	0.275	Pass
2.0	0.01	0.275	Pass



428 MHz

Probe Height (m)	Peak Power Density (mW/cm²)	Limit (mW/cm²)	Result
0.2	0.02	0.285	Pass
0.4	0.02	0.285	Pass
0.6	0.03	0.285	Pass
0.8	0.02	0.285	Pass
1.0	0.05	0.285	Pass
1.2	0.12	0.285	Pass
1.4	0.14	0.285	Pass
1.6	0.12	0.285	Pass
1.8	0.07	0.285	Pass
2.0	0.04	0.285	Pass

450 MHz

Probe Height (m)	Peak Power Density (mW/cm²)	Limit (mW/cm²)	Result
0.2	0.01	0.3	Pass
0.4	0.01	0.3	Pass
0.6	0.01	0.3	Pass
0.8	0.01	0.3	Pass
1.0	0.04	0.3	Pass
1.2	0.08	0.3	Pass
1.4	0.08	0.3	Pass
1.6	0.05	0.3	Pass
1.8	0.03	0.3	Pass
2.0	0.02	0.3	Pass



460 MHz

Probe Height (m)	Peak Power Density (mW/cm²)	Limit (mW/cm²)	Result
0.2	0.01	0.31	Pass
0.4	0.01	0.31	Pass
0.6	0.01	0.31	Pass
0.8	0.02	0.31	Pass
1.0	0.07	0.31	Pass
1.2	0.11	0.31	Pass
1.4	0.10	0.31	Pass
1.6	0.06	0.31	Pass
1.8	0.03	0.31	Pass
2.0	0.02	0.31	Pass

470 MHz

Probe Height (m)	Peak Power Density (mW/cm²)	Limit (mW/cm²)	Result
0.2	0.01	0.313	Pass
0.4	0.01	0.313	Pass
0.6	0.01	0.313	Pass
0.8	0.04	0.313	Pass
1.0	0.09	0.313	Pass
1.2	0.13	0.313	Pass
1.4	0.12	0.313	Pass
1.6	0.06	0.313	Pass
1.8	0.03	0.313	Pass
2.0	0.01	0.313	Pass



Test Equipment Utilized

Description	Manufacturer	Model #	CT Asset #	Last Cal Date	Cal Due Date
Power Supply	HP	6673A	i00191	Verified on:8/23/2012	
Semi-Anechoic Chamber	CT	N/A	i00276	8/31/11	8/31/12
Isotropic E Field Probe	ETS Lindgren	HI 6005	i00300	8/2/12	8/2/13

END OF TEST REPORT