



TEST REPORT

REGULATION : **FCC Part 1.1310**
(General Population/Uncontrolled Exposure)

Applicant	Testing Laboratory
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Equipment type	UHF DIGITAL TRANSCEIVER
Trademark	KENWOOD
FCC Model(s)	NX-3820HG-K
Serial No.	90-No.13
FCC ID	K44479300
Test Result	Complied
Report Number	17020202JKA-002
Report issue date	March 31, 2017

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Approved by

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[Technical Manager]

Tested by

Koichi Wagatsuma

[Engineer]

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SECTION 1. INFORMATION**APPLICANT**

Company	JVC KENWOOD Corporation
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Contact Person	Tamaki Shimamura

MANUFACTURER

Company	JVC KENWOOD Corporation
Address	1-16-2, Hakusan, Midori-ku, Yokohama-shi Kanagawa, 226-8525 Japan

EQUIPMENT UNDER TEST

FCC Model(s)	NX-3820HG-K
Serial No.	90-No.13
Frequency range	FCC: 450 to 512 MHz
FCC ID	K44479300
Maximum Power Rating	45 W
Duty cycle	50 %
Collector Current, A	13.0 amps (Maximum)
Collector Voltage, Vdc	13.6 Vdc
Supply Voltage, Vdc	13.6 Vdc

TEST DATE OF ISSUE AND TEST ENGINEER

Date of Issue	February 28, 2017
temperature	22 to 24 [degree C]
Humidity Variation	45 to 55 [%]
Atmospheric Pressure	101 to 101 [kPa]
Test Engineer	Koichi Wagatsuma
Test Location	Kashima Immunity Test Room
Regulations	FCC Part 1.1310
Test method/Guide	KDB 447498 D01 General RF Exposure Guidance v05r02
Test Procedure	RJP-TE103

Revision Summary

Revised Date	Section	Description of Changes

SECTION 2. TEST DATA

The TX antenna place was inside a semi anechoic chamber at height of 0.8 m from the Ground reference plane to simulate being mounted on a vehicle.

The isotropic probe position was a distance of 0.4 m from the TX antenna and the power density was measured from 0.1 m to 2.0 m (at 0.1 m increments) with the peak value.

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

The 1/4 wave antenna (0 dBd gain) was utilized for testing.
(Model No : QWFT120 / Manufacturer : Laird Technologies)

Measurement Result

TX frequency (MHz)	Output Power W	Measurement distance (m)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
				FCC	
450.05	45	0.4	0.104	0.300	PASS
481.05	45	0.4	0.078	0.321	PASS
511.95	45	0.4	0.054	0.341	PASS

Power Density = 20 measurements data (0.1m - 2.0m) has been averaged.

Limit : General Population/Uncontrolled Exposure

Measurement data

450.05 MHz

Probe Height (m)	Reading Power Density (mW/cm ²)	Probe Factor	Power Density (mW/cm ²)
0.1	0.017	1.21	0.021
0.2	0.016	1.21	0.020
0.3	0.019	1.21	0.023
0.4	0.025	1.21	0.030
0.5	0.032	1.21	0.039
0.6	0.047	1.21	0.057
0.7	0.066	1.21	0.080
0.8	0.123	1.21	0.149
0.9	0.152	1.21	0.184
1.0	0.143	1.21	0.173
1.1	0.149	1.21	0.180
1.2	0.135	1.21	0.163
1.3	0.131	1.21	0.159
1.4	0.154	1.21	0.186
1.5	0.157	1.21	0.190
1.6	0.127	1.21	0.154
1.7	0.092	1.21	0.112
1.8	0.065	1.21	0.078
1.9	0.044	1.21	0.054
2.0	0.032	1.21	0.039

Power Density = Reading Power Density x Probe Factor

481.05 MHz

Probe Height (m)	Reading Power Density (mW/cm ²)	Probe Factor	Power Density (mW/cm ²)
0.1	0.012	1.20	0.014
0.2	0.008	1.20	0.010
0.3	0.006	1.20	0.007
0.4	0.013	1.20	0.016
0.5	0.023	1.20	0.027
0.6	0.030	1.20	0.036
0.7	0.047	1.20	0.056
0.8	0.100	1.20	0.121
0.9	0.118	1.20	0.143
1.0	0.107	1.20	0.129
1.1	0.109	1.20	0.131
1.2	0.103	1.20	0.123
1.3	0.113	1.20	0.136
1.4	0.140	1.20	0.168
1.5	0.130	1.20	0.156
1.6	0.093	1.20	0.112
1.7	0.060	1.20	0.073
1.8	0.038	1.20	0.046
1.9	0.026	1.20	0.031
2.0	0.017	1.20	0.021

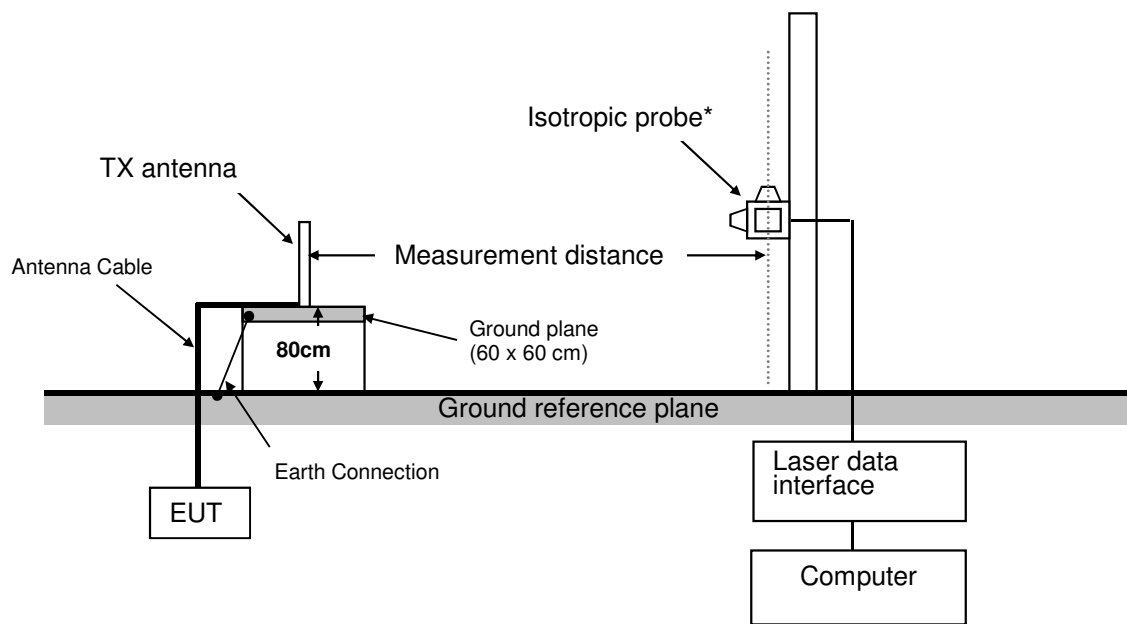
Power Density = Reading Power Density x Probe Factor

511.95 MHz

Probe Height (m)	Reading Power Density (mW/cm ²)	Probe Factor	Power Density (mW/cm ²)
0.1	0.002	1.19	0.002
0.2	0.004	1.19	0.005
0.3	0.008	1.19	0.010
0.4	0.014	1.19	0.016
0.5	0.012	1.19	0.014
0.6	0.018	1.19	0.021
0.7	0.037	1.19	0.044
0.8	0.096	1.19	0.114
0.9	0.124	1.19	0.148
1.0	0.090	1.19	0.107
1.1	0.051	1.19	0.061
1.2	0.055	1.19	0.066
1.3	0.087	1.19	0.103
1.4	0.103	1.19	0.123
1.5	0.086	1.19	0.102
1.6	0.055	1.19	0.065
1.7	0.031	1.19	0.037
1.8	0.016	1.19	0.019
1.9	0.009	1.19	0.010
2.0	0.005	1.19	0.006

Power Density = Reading Power Density x Probe Factor

SECTION 3. TEST CONFIGURATION



* : The Isotropic probe position was Vertical orientation from the Ground reference plane from 0.1m to 2m (10cm increments) .

Setup Photos



SECTION 4. MEASUREMENT UNCERTAINTY

30 MHz – 1000 MHz	17.7 % (k=2)
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SECTION 5. LIST OF MEASURING INSTRUMENTS

Instrument	Model No.	Serial No.	Manufacturer	Cal Date	Cal Due Date
Isotropic probe	HI-6105	00130667	ETS Lindgren	2017/2/22	2018/2/28
Laser data interface	HI 6113	00130903	ETS Lindgren	N/A	N/A
Testing software	ProbeView™ Laser	Version 2.0.8	ETS Lindgren	N/A	N/A