



TEST REPORT

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

Applicant	Testing Laboratory
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Equipment type Trademark FCC Model(s) Serial No. FCC ID Test Result Report Number Report issue date	UHF DIGITAL TRANSCEIVER KENWOOD NX-5800-K、NX-5800-F 25 K44471200 Complied 14080362JKA-001 September 24, 2014

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Approved by

Kazuo Gokita

[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-5800-K, NX-5800-F	
Serial No.	25	
Frequency range	450 to 512 MHz	
FCC ID	K44471200	
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	September 04, 2014		
temperature	21	to	22 [degree C]
Humidity Variation	55	to	60 [%]
Atmospheric Pressure	101.2	to	101.2 [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 output power of 45 W.

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
450.05	45	0.4	0.088	0.300	PASS
481.05	45	0.4	0.115	0.321	PASS
511.95	45	0.4	0.060	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	0.012	1.28	0.007
0.2	0.024	1.28	0.015
0.3	0.039	1.28	0.025
0.4	0.040	1.28	0.025
0.5	0.034	1.28	0.022
0.6	0.056	1.28	0.036
0.7	0.107	1.28	0.069
0.8	0.218	1.28	0.140
0.9	0.275	1.28	0.177
1.0	0.252	1.28	0.162
1.1	0.231	1.28	0.148
1.2	0.199	1.28	0.127
1.3	0.198	1.28	0.127
1.4	0.243	1.28	0.156
1.5	0.256	1.28	0.165
1.6	0.200	1.28	0.129
1.7	0.143	1.28	0.092
1.8	0.096	1.28	0.062
1.9	0.065	1.28	0.042
2.0	0.045	1.28	0.029

Power Density = Reading Power Density x Probe Factor x Duty cycle (50%)

481.05 MHz

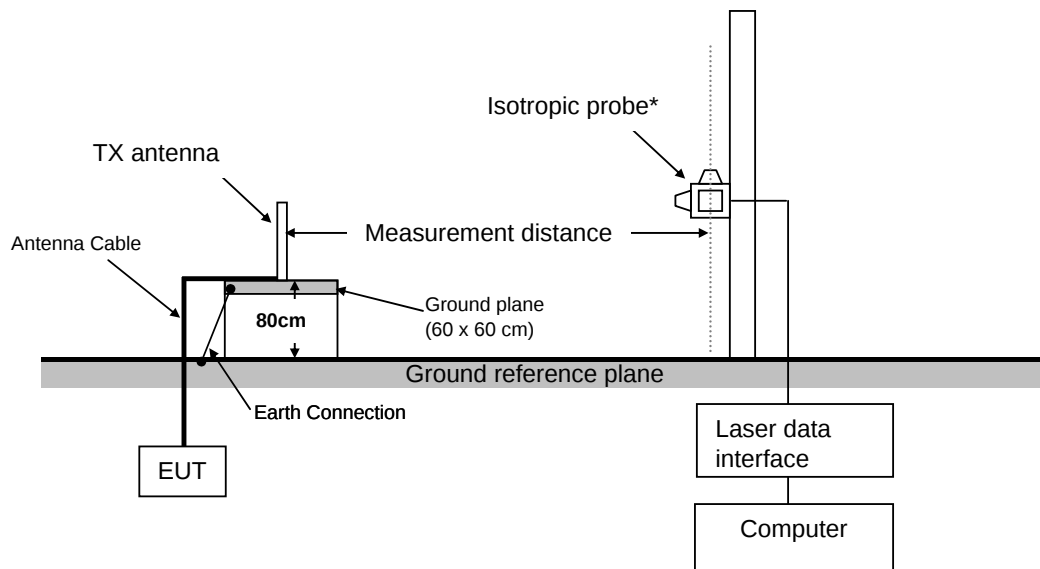
Probe Height (m)	Reading Power Density (mW/cm ²)	Probe Factor	Power Density (mW/cm ²)
0.1	0.021	1.30	0.014
0.2	0.029	1.30	0.019
0.3	0.020	1.30	0.013
0.4	0.023	1.30	0.015
0.5	0.044	1.30	0.029
0.6	0.078	1.30	0.051
0.7	0.138	1.30	0.090
0.8	0.295	1.30	0.192
0.9	0.337	1.30	0.219
1.0	0.317	1.30	0.206
1.1	0.304	1.30	0.198
1.2	0.276	1.30	0.180
1.3	0.305	1.30	0.198
1.4	0.360	1.30	0.234
1.5	0.340	1.30	0.221
1.6	0.248	1.30	0.161
1.7	0.166	1.30	0.108
1.8	0.112	1.30	0.073
1.9	0.077	1.30	0.050
2.0	0.051	1.30	0.033

Power Density = Reading Power Density x Probe Factor x Duty cycle (50%)

511.95 MHz

Probe Height (m)	Reading Power Density (mW/cm ²)	Probe Factor	Power Density (mW/cm ²)
0.1	0.006	1.31	0.004
0.2	0.009	1.31	0.006
0.3	0.008	1.31	0.005
0.4	0.016	1.31	0.011
0.5	0.025	1.31	0.016
0.6	0.047	1.31	0.031
0.7	0.079	1.31	0.052
0.8	0.195	1.31	0.128
0.9	0.263	1.31	0.172
1.0	0.184	1.31	0.120
1.1	0.096	1.31	0.063
1.2	0.083	1.31	0.054
1.3	0.143	1.31	0.094
1.4	0.196	1.31	0.129
1.5	0.184	1.31	0.121
1.6	0.131	1.31	0.086
1.7	0.083	1.31	0.054
1.8	0.047	1.31	0.031
1.9	0.027	1.31	0.018
2.0	0.018	1.31	0.012

Power Density = Reading Power Density x Probe Factor x Duty cycle (50%)

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	2014/4/2	2015/4/30
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