



TEST REPORT

**REGULATION : FCC Part 1.1310 , RSS-102 Issue5 2015
(General Population/Uncontrolled Exposure)**

Applicant	Testing Laboratory
JVC KENWOOD Corporation 1-16-2, Hakusan, Midori-ku, Yokohama-shi Kanagawa, 226-8525 Japan Tel.: +81 45 939 6254 Fax.: +81 45 939 6261	Intertek Japan K.K. Kashima Laboratory (No.12 Test site) 298-6 Sada, Kashima, Ibaraki 314-0027 Japan Tel. +81 299 82 8464 URL: http://www.japan.intertek-etlsemko.com

Equipment type	VHF DIGITAL TRANSCEIVER
Trademark	KENWOOD
FCC Model(s)	NX-700H-K, NX-700-K, TK-5720-K
IC Model(s)	NX-700H-K, NX-700-K, TK-5720-K (HVIN:NX-700H-K-17, NX-700-K-17, TK-5720-K-17)
Serial No.	20
FCC ID	K44378602
IC CN and UPN	282F-378602
Test Result	Complied
Report Number	17030291JKA-002
Report issue date	June 05, 2017

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Approved by

Hideaki Kosemura

[Technical Manager]

Tested by

Koichi Wagatsuma

[Engineer]

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SECTION 1. INFORMATION**APPLICANT**

Company	JVC KENWOOD Corporation
Address	1-16-2, Hakusan, Midori-ku, Yokohama-shi Kanagawa, 226-8525 Japan
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-700H-K, NX-700-K, TK-5720-K	
IC Model(s)	NX-700H-K, NX-700-K, TK-5720-K (HVIN:NX-700H-K-17, NX-700-K-17, TK-5720-K-17)	
Serial No.	20	
Frequency range	FCC: 150 to 174 MHz IC: 138 to 144 MHz and 148 to 174 MHz	
FCC ID	K44378602	
IC CN and UPN	282F-378602	
Maximum Power Rating	50	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	May 03, 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 No.12 Test Site		
Regulations	FCC Part 1.1310 , RSS-102 Issue5 2015		
Test method/Guide	KDB 447498 D01 General RF Exposure Guidance v05r02		
Test Procedure	LEN-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 0.8 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 50 W. By allowing for an operational 50 % factor the power was reduced to 25 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
				RSS	FCC	
138.05	50	0.8	0.122	0.129	0.200	PASS
150.05	50	0.8	0.088	0.129	0.200	PASS
162.05	50	0.8	0.075	0.129	0.200	PASS
173.95	50	0.8	0.062	0.129	0.200	PASS

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

Limit : General Population/Uncontrolled Exposure

Measurement data

138.05 MHz

Probe Height (m)	Reading Power Density (mW/cm ²)	Probe Factor	Power Density (mW/cm ²)
0.1	0.011	1.22	0.014
0.2	0.027	1.22	0.033
0.3	0.052	1.22	0.063
0.4	0.078	1.22	0.096
0.5	0.105	1.22	0.128
0.6	0.126	1.22	0.154
0.7	0.135	1.22	0.165
0.8	0.137	1.22	0.167
0.9	0.133	1.22	0.162
1.0	0.123	1.22	0.150
1.1	0.118	1.22	0.144
1.2	0.120	1.22	0.146
1.3	0.124	1.22	0.151
1.4	0.127	1.22	0.155
1.5	0.125	1.22	0.153
1.6	0.115	1.22	0.140
1.7	0.104	1.22	0.127
1.8	0.092	1.22	0.112
1.9	0.080	1.22	0.097
2.0	0.069	1.22	0.085

Power Density = Reading Power Density x Probe Factor

150.05 MHz

Probe Height (m)	Reading Power Density (mW/cm ²)	Probe Factor	Power Density (mW/cm ²)
0.1	0.005	1.21	0.006
0.2	0.017	1.21	0.020
0.3	0.034	1.21	0.041
0.4	0.052	1.21	0.063
0.5	0.067	1.21	0.081
0.6	0.083	1.21	0.101
0.7	0.089	1.21	0.108
0.8	0.090	1.21	0.109
0.9	0.093	1.21	0.112
1.0	0.093	1.21	0.113
1.1	0.098	1.21	0.119
1.2	0.099	1.21	0.120
1.3	0.101	1.21	0.122
1.4	0.100	1.21	0.122
1.5	0.093	1.21	0.113
1.6	0.087	1.21	0.105
1.7	0.076	1.21	0.093
1.8	0.067	1.21	0.081
1.9	0.057	1.21	0.069
2.0	0.047	1.21	0.056

Power Density = Reading Power Density x Probe Factor

162.05 MHz

Probe Height (m)	Reading Power Density (mW/cm ²)	Probe Factor	Power Density (mW/cm ²)
0.1	0.004	1.21	0.005
0.2	0.017	1.21	0.020
0.3	0.032	1.21	0.038
0.4	0.049	1.21	0.059
0.5	0.059	1.21	0.072
0.6	0.069	1.21	0.084
0.7	0.074	1.21	0.090
0.8	0.077	1.21	0.093
0.9	0.079	1.21	0.096
1.0	0.085	1.21	0.103
1.1	0.086	1.21	0.104
1.2	0.088	1.21	0.107
1.3	0.087	1.21	0.105
1.4	0.085	1.21	0.102
1.5	0.078	1.21	0.094
1.6	0.070	1.21	0.085
1.7	0.062	1.21	0.074
1.8	0.052	1.21	0.063
1.9	0.044	1.21	0.053
2.0	0.036	1.21	0.043

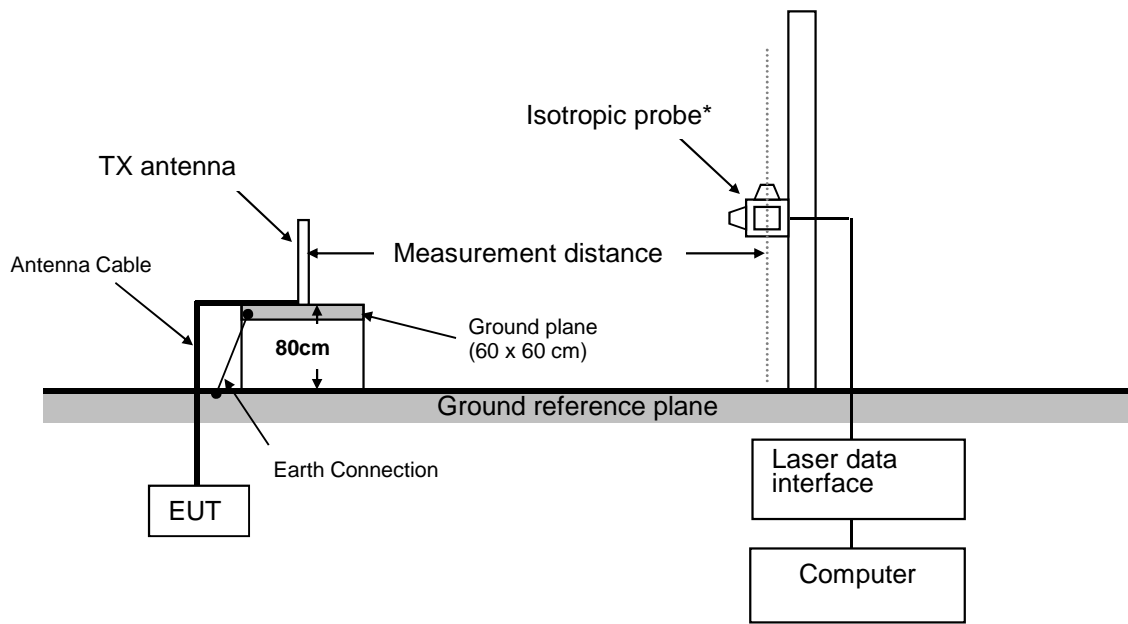
Power Density = Reading Power Density x Probe Factor

173.95 MHz

Probe Height (m)	Reading Power Density (mW/cm ²)	Probe Factor	Power Density (mW/cm ²)
0.1	0.004	1.20	0.005
0.2	0.017	1.20	0.020
0.3	0.032	1.20	0.039
0.4	0.048	1.20	0.057
0.5	0.056	1.20	0.067
0.6	0.064	1.20	0.077
0.7	0.066	1.20	0.080
0.8	0.067	1.20	0.081
0.9	0.068	1.20	0.082
1.0	0.074	1.20	0.089
1.1	0.076	1.20	0.091
1.2	0.076	1.20	0.091
1.3	0.073	1.20	0.088
1.4	0.069	1.20	0.083
1.5	0.061	1.20	0.074
1.6	0.052	1.20	0.063
1.7	0.043	1.20	0.052
1.8	0.035	1.20	0.042
1.9	0.027	1.20	0.033
2.0	0.022	1.20	0.026

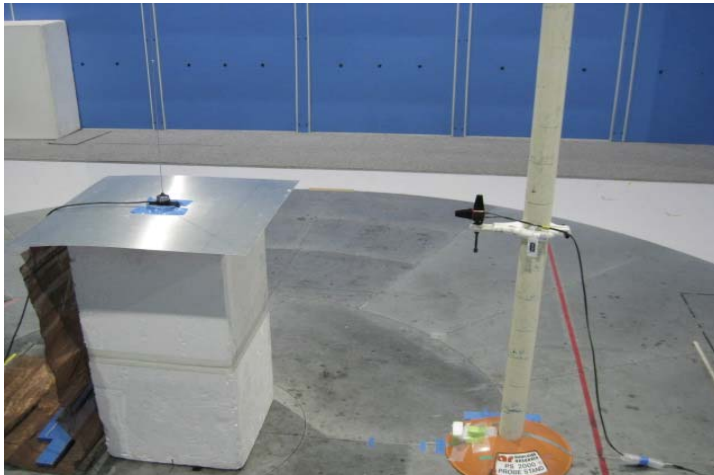
Power Density = Reading Power Density x Probe Factor

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	00130665	ETS Lindgren	2017/3/24	2018/3/31
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