

TEST REPORT

STANDARD : FCC Part 15B-Scanning Receiver
: Industry Canada RSS-135 Issue 2

Applicant	Testing Laboratory
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Equipment Type	144/430MHz FM DUAL BANDER
Category	Scanning Receiver
Trademark	KENWOOD
Model(s)	TH-D72A
Serial No.	None
Equipment Authorization	Certification (FCC ID : K44412900, IC : 282F-412900)
Test Result	Complied
Report Number	JT10080007
Report Issue Date	September 21, 2010

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Approved by



Kazuo Gokita
[Manager]

Tested by



Atsuyuki Morishima



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SECTION 1. GENERAL INFORMATION

TEST PERFORMED

Location	Tochigi No.1 Test Site
EUT Received	August 24, 2010
Date of Test	From August 26, 2010 to September 8, 2010
Standard Applied	FCC Part15B – Scanning Receiver Industry Canada RSS-135 Issue 2 * * It is not covered by accredited scope of VLAC.
Measurement methods	ANSI C63.4-2003 / RSS-GEN Issue2 4.10
Test Procedure	Document number : RJP-EM001, RJP-EM003
Deviation from Standard(s)	None

Note : As for the ICES-003 “Digital Apparatus”, the EUT has been measured.

Refer to report No. “JT10080009”.

As for the FCC Part15B Class B “Peripherals”, the EUT has been measured.

Refer to report No. “JT10080008”.

QUALIFICATIONS OF TESTING LABORATORY

ACCREDITATION	SCOPE	LAB. CODE	Remarks
VLAC	EMC Testing	VLAC-008-5	JAPAN
BSMI	EMC Testing	SL2-IN-E-6017, SL2-A-E-6017	TAIWAN
FILING			
VCCI	EMC Testing	R-257, C-260, C-284, T-1736, T-1737, G-124 R-258, C-261, C-285, T-1738, T-1739 R-259, C-262, T-1740, G-125	JAPAN
FCC	EMC Testing	Designation Number : JP0011	USA
IC	EMC Testing	2042P-1, 2042P-2	CANADA
SAUDI ARABIA	EMC Testing	N/A	

ABBREVIATIONS

EUT	Equipment Under Test	DoC	Declaration of Conformity
AMN	Artificial Mains Network	ISN	Impedance Stabilization Network
LISN	Line Impedance Stabilization Network	Q-P	Quasi-peak
AMP	Amplifier	AVG	Average
ATT	Attenuator	PK	Peak
ANT	Antenna	Cal	Calibration
BBA	Broadband Antenna	N/A	Not applicable or Not available
DIP	Dipole Antenna	LCD	Liquid-Crystal Display
AE	Associated Equipment	VFO	Variable Frequency Oscillator

SECTION 2. SUMMARY OF TEST RESULTS

The minimum margins to the limits are as follows:

Conducted disturbance at mains terminals	RX mode(118.000MHz:Band B) 16.0 dB (3.7462 MHz)
Radiated disturbance	RX mode(422.000MHz:Band B) 2.2 dB (467.05MHz)
Conducted Power on Antenna Port (15.111) / (RSS-135 5.1)	VFO SCAN mode(320-524MHz:Band B) 6.2 dB (411.7110 MHz)
38dB Rejection Test (15.121(b))	No frequency of response was detected – Passed-

Note : See Section 10 for details.

< Measurement data correction >

- * Conducted disturbance at mains terminals
 - Emission Level [dBμV] = Meter Reading [dBμV] + Factor [dB]
 - Margin [dB] = Limit [dBμV] - Emission Level [dBμV]
 - * Factor = LISN Factor + Cable Loss + ATT
- * Radiated disturbance
 - Emission Level [dBμV/m] = Meter Reading [dBμV] + Factor [dB/m]
 - Margin [dB] = Limit [dBμV/m] - Emission Level [dBμV/m]
 - * Factor = Antenna Factor + Cable Loss - Amplifier Gain + ATT
(– Distance Conversion Factor)
- * Conducted Power on Antenna Port
 - Emission Level [dBμV] = Meter Reading [dBμV] + Factor [dB]
 - Margin [dB] = Limit [dBμV] - Emission Level [dBμV]
 - * Factor = Pad +Cable Loss - Amplifier Gain

SECTION 3. EQUIPMENT UNDER TEST

The equipment under test (EUT) consisted of the following apparatus.

3.1 System Configuration

Symbol	Item	Model No.	Serial No.	Manufacturer	Notes	FCC ID
A	144/430MHz FM DUAL BANDER	TH-D72A	None	KENWOOD	EUT	K44412900
Rated Power : DC-IN Terminal :DC13.8 V (DC12 – 16V) Battery Terminal:DC7.4 V (DC 5.5 – 10.8V) 0.38 A max.(Rx mode)						
Supplied Power : DC13.8 V						
Condition of Equipment		Prototype				
Type		Tabletop				
Suppression Devices		No Modifications by the laboratory were made to the device				

3.2 Overview of EUT

Frequency Ranges	136 – 174 MHz and 410 – 470 MHz (Band A) 118 – 174 MHz and 320 – 524 MHz (Band B)
Receiver Type	Double Conversion
Model of Operation	F1D/ F2D/ F3E

3.3 Intermediate Frequencies

1st	49.95MHz(Band A) or 45.05MHz(Band B)
2nd	450kHz(Band A) or 455kHz(Band B)

3.4 Highest Frequency Oscillator(s) / Crystal(s)

Base Clock	Operating Frequency	Board Name	Remarks
1.6 GHz	1.6 GHz	GPS UNIT	

3.5 Port(s)/Connector(s)

Port Name	Connector Type	Connector Pin	Remarks
ANT	SMA	1 pin	
DC Jack	3.5φ	2 pin	
Microphone Jack	3.5φ	3 pin	
Speaker Jack	2.5φ	3 pin	
USB2.0 Mini socket	Mini USB plug B	5 pin	
COM Jack	2.5φ	3 pin	

3.6 Frequency Range of Measurements

	Required Measurement Frequency Range	Measured Frequency Range
Conducted disturbance at mains terminals	0.15M – 30 MHz	0.15M – 30 MHz
Radiated disturbance	30M – 8000 MHz	30M – 8000 MHz
Conducted Power on Antenna Port (15.111)	30M – 8000 MHz	30M – 8000 MHz
38dB Rejection Test (15.121(b))	136 M – 174 MHz (Band A) 410 M – 470 MHz (Band A) 118 M – 174 MHz (Band B) 320 M – 524 MHz (Band B)	136 M – 174 MHz (Band A) 410 M – 470 MHz (Band A) 118 M – 174 MHz (Band B) 320 M – 524 MHz (Band B)

SECTION 4. SUPPORT EQUIPMENT

The EUT was supported by the following equipment during the test.

Symbol	Item	Model No.	Serial No.	Manufacturer	Remarks	FCC ID
B	Speaker microphone	SMC-34	None	KENWOOD		N/A
C	Earphone	HS-9(G)	None	KENWOOD		N/A
D	GPS-Receiver	GPS map60Cx	78844474	GARMIN		DoC
E	Li-ion battery	PB-45L	None	KENWOOD		N/A
F	Computer	DMC	FXVKV1X	DELL		DoC
G	DC Power Supply	PS-60	None	KENWOOD		N/A
H	Dummy Antenna	CT-01	None	TME		N/A
I	LCD	E172FPb	None	DELL		DoC
J	Printer	C8154AL	TH71Q5Z0GT	HEWLETT PACKARD		DoC
K	AC Adaptor	0957-2171	E151B100MU02L	HEWLETT PACKARD		N/A
L	Keyboard	SK-8115	None	DELL		DoC
M	Mouse	MO56UOA	E1900IT0	DELL		DoC
Supplied Power:						
G,F,I,K	AC120 V, 60 Hz					

SECTION 5. USED CABLE(S)

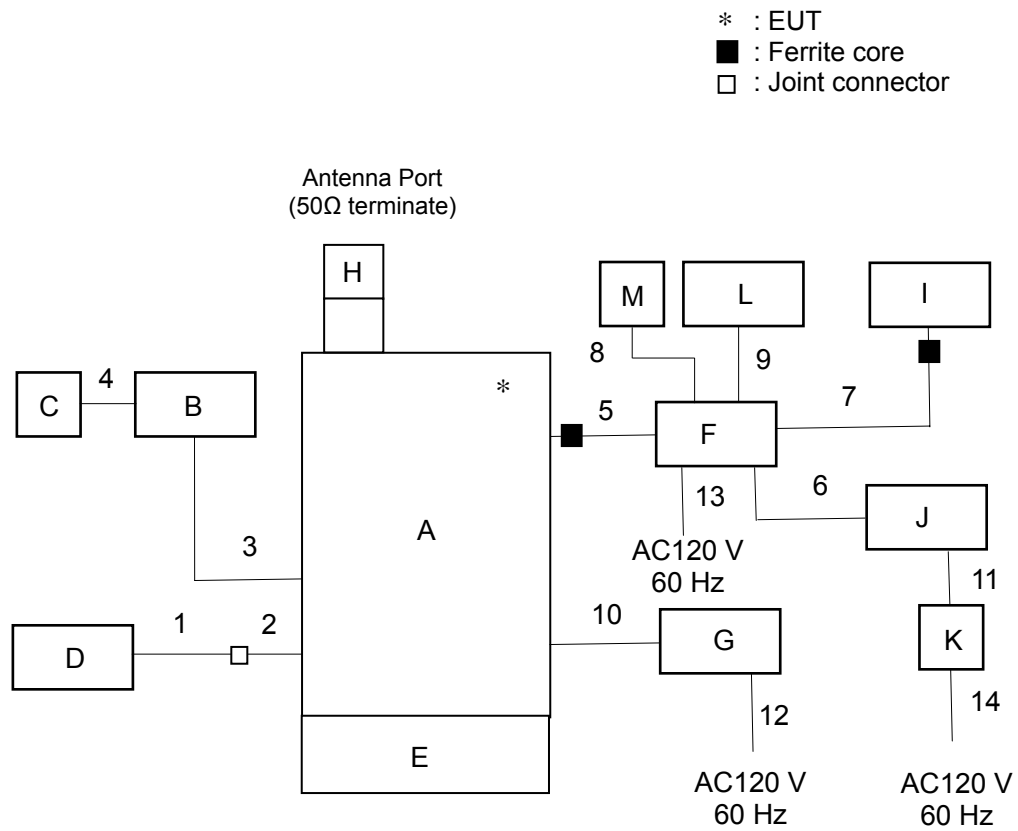
The following cable(s) was used for the test.

No.	Name	Length (m)	Shield	Metal Connector	Ferrite Core
1	COM cable	1.90	No	No	
2	COM cable	3.90	No	No	
3	Speaker microphone cable	0.50	No	No	
4	Earphone cable	1.00	No	No	
5	USB cable	1.00	Yes	Yes	Fixed x 1
6	Printer cable	2.40	Yes	Yes	
7	Monitor cable	1.80	Yes	Yes	Fixed x 1
8	Mouse cable	1.80	Yes	Yes	
9	Keyboard cable	2.00	Yes	Yes	
10	Power cable for TH-D72A (DC)	1.40	No	No	
11	Power cable for Printer (DC)	1.70	No	No	
12	Power cable for DC Supply (AC)	1.75	No	No	
13	Power cable for Computer (AC)	1.90	No	No	
14	Power cable for LCD (AC)	1.70	No	No	
15	Power cable for AC Adaptor (AC)	0.90	No	No	

Note : 1. No. 5 cable is supplied together with EUT by the applicant.
2. No. 7 cable is supplied together with LCD(I).

SECTION 6. TEST CONFIGURATION

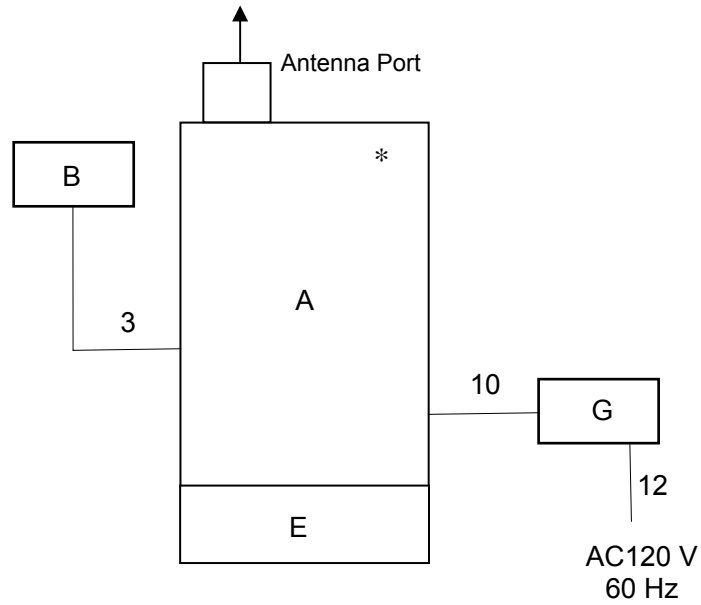
6.1 Conducted disturbance at mains terminals Radiated disturbance



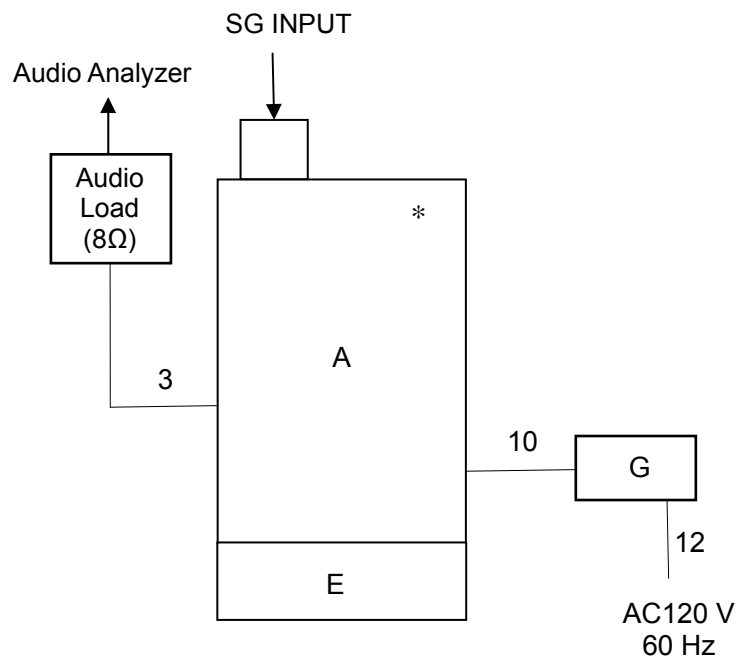
The symbols and numbers assigned to the equipments and cables on this diagram correspond to the ones in Sections 3 to 5.

6.2 Conducted Power on Antenna Port (15.111)

* :EUT



6.3 38dB Rejection Test (15.121(b))



The symbols and numbers assigned to the equipments and cables on this diagram correspond to the ones in Sections 3 to 5.

SECTION 7. OPERATING CONDITION

The EUT was operated under the following conditions during the test.

7.1 Operating Condition

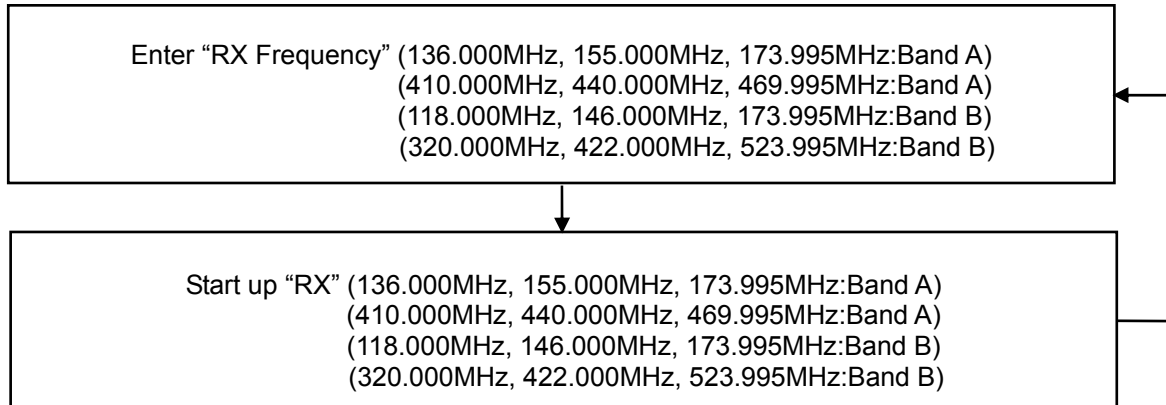
The test was carried out under RX mode and VFO SCAN mode.

EUT was examined in the operating conditions that had maximum emissions.

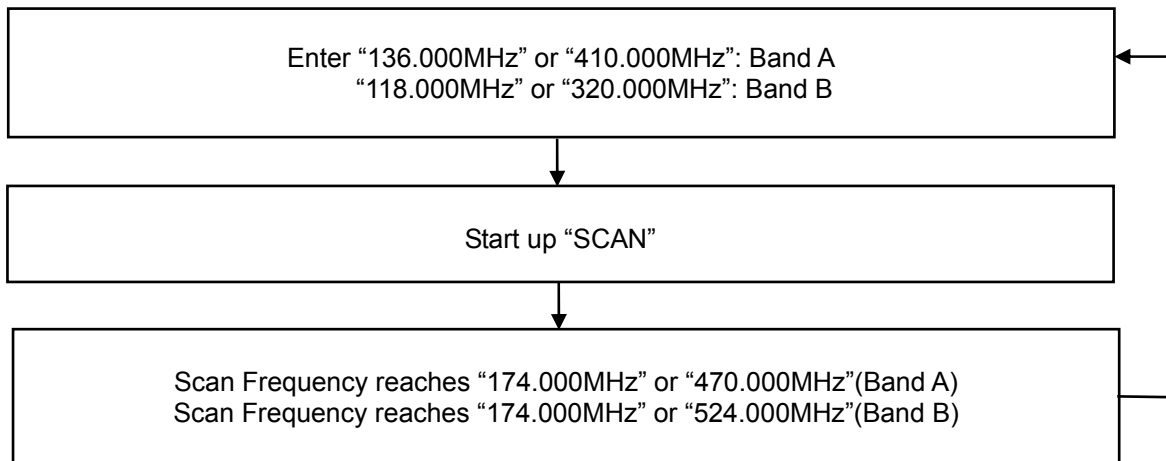
7.2 Operating Flow [RX mode and VFO SCAN mode]

Following operations were performed continuously.

7.2.1 RX mode



7.2.2 VFO SCAN mode



Radiated disturbance
Test setup as per standard

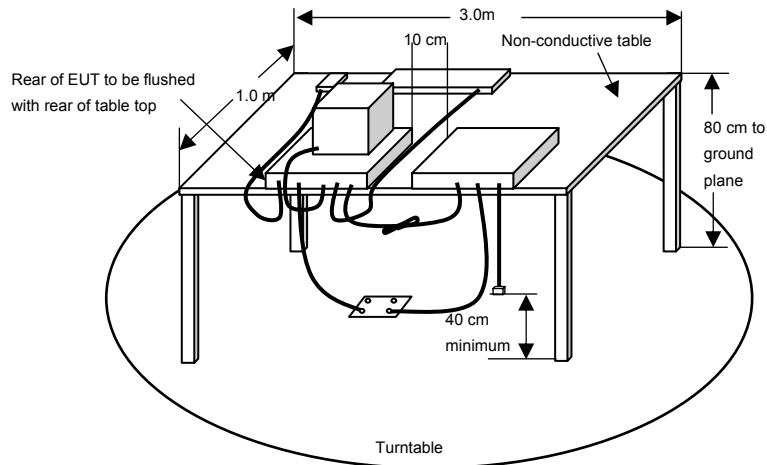
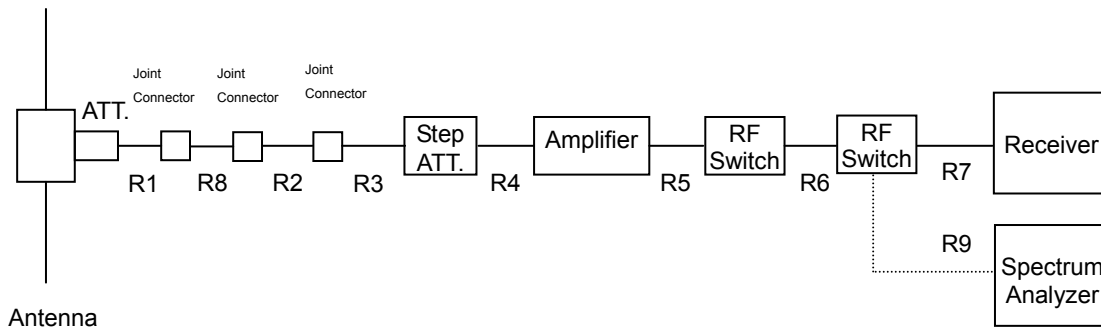
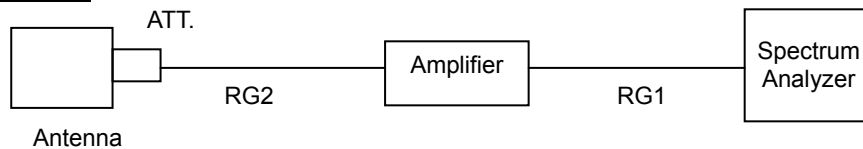


Diagram of the measuring instruments (30-1000MHz)



Above 1GHz



Setting for the instruments

Frequency [MHz]	Instrument	Detector Function	Resolution Bandwidth	Video Bandwidth
30 – 1000	Receiver	Quasi Peak	120 kHz	N/A
Above 1000	Spectrum Analyzer	Peak	1 MHz	1 MHz
		Average	1 MHz	10 Hz

[Preliminary Measurement]

EUT is tested on all operating conditions.

The spectrum analyzer is set max-hold mode and swept during turntable was rotated 0 to 360 degree. Then spectrum chart is plotted out to find the worst emission conditions in configuration, operating mode, or ambient noise notation.

[Final Measurement]

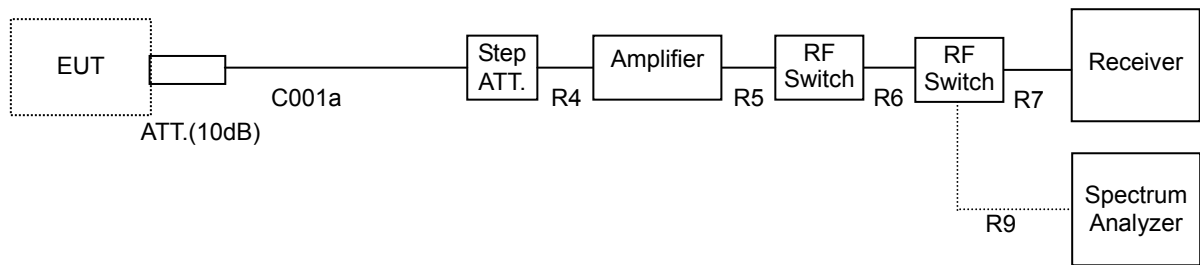
The EUT operated in the worst emission condition found by the preliminary test.

The turntable azimuth (EUT direction) and antenna height (1 to 4 meters) are adjusted the position so that maximum field strength is obtained for each frequency spectrum to be measured.

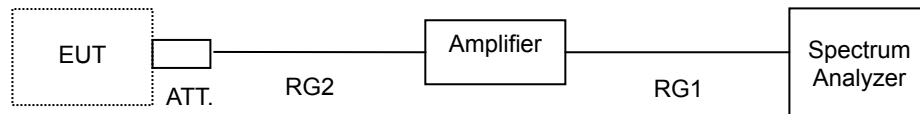
The equipment and cables are arranged or manipulated within the range of the test standard in the above condition. At least six highest spectrum are measured by the test receiver (quasi-peak) and spectrum analyzer (peak and average). When the uncertain result was obtained, the measurement is retried by using the half wave dipole antenna instead of the broadband antenna.

Conducted Power on Antenna port (15.111)

Schema for the conducted power on antenna port measurement



Above 1GHz



[Instrument Setup]

Frequency [MHz]	Instrument	Detector Function	Resolution Bandwidth	Video Bandwidth
30 to 1000	Receiver	Quasi Peak	120 kHz	N.A.
Above 1000	Spectrum Analyzer	Peak	1 MHz	1 MHz

[Preliminary Measurement]

EUT is tested on all operating conditions.

The spectrum analyzer is controlled by the computer program to sweep the frequency range to be measured, then spectrum chart are plotted out to find the worst emission conditions in operating mode and/or configuration decision for the final test.

[Final Measurement]

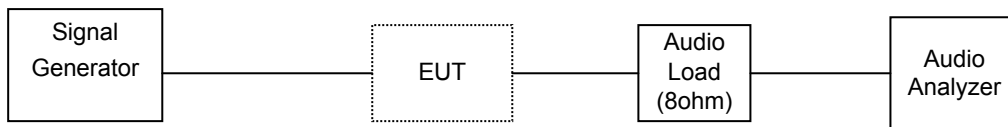
The EUT is operated in the worst emission condition found by the preliminary test.

The equipment and cables are arranged or manipulated within the range of the test standard in the above condition.

At least six highest spectrum are measured by the test receiver (quasi-peak) and spectrum analyzer (peak).

38dB Rejection

Schema for the 38dB rejection measurement



[Preliminary Measurement]

The Signal Generator conditions :

Output level = 66 dBuV.

Modulation = Frequency modulated to 1 kHz tone at 3 kHz peak deviation.

Frequency Points = 824.040 MHz, 836.505 MHz, 848.970 MHz
869.040 MHz, 881.505 MHz, 893.970 MHz

(The Cellular Radiotelephone Service mobile and base frequency bands)

The EUT condition :

Scanning Frequency = 136MHz – 174MHz (5 kHz Step):Band A

Scanning Frequency = 410MHz – 470MHz (5 kHz Step):Band A

Scanning Frequency = 118MHz – 174MHz (5 kHz Step):Band B

Scanning Frequency = 320MHz – 524MHz (5 kHz Step):Band B

Scan stopped point, was the detected frequency.

[Final Measurement]

Injected 12dB SINAD Reading (SG RF Output)

The EUT condition :

Frequency = Scan stopped point

The Signal Generator condition :

Frequency = Cellular point

Detected 12dB SINAD Reading (SG RF Output)

The EUT condition :

Frequency = Scan stopped point

The Signal Generator condition :

Frequency = Scan stopped point

Under the requirements of Section 15.121(b) of the Rule.

Injected 12dB SINAD Reading – Detected 12dB SINAD Reading = 38 dB or more.

SECTION 9. MEASUREMENT UNCERTAINTY

SECTION 15.101.10.1 MEASUREMENT UNCERTAINTY		
Radiated disturbance at 3m	U _{lab}	U _{cispr}
30 MHz – 1000 MHz	3.52 dB	5.19 dB
CISPR22	4.18 dB	
Above 1 GHz ANSI 63.4	4.26 dB	
Radiated disturbance at 10m		
30 MHz – 1000 MHz	4.25 dB	5.06 dB
Above 1 GHz ANSI 63.4	4.26 dB	
Radiated disturbance at 30m		
	N/A	5.02 dB
Radiated disturbance (power)		
11.7 GHz – 12.7 GHz	N/A	Nil
Conducted disturbance at mains terminals		
9 kHz – 150 kHz	2.76 dB	3.97 dB
150 kHz – 30 MHz		3.60 dB
Conducted disturbance at telecommunication ports (voltage)		
9 kHz – 30 MHz	2.76 dB	Nil
Conducted disturbance at telecommunication ports (current)		
9 kHz – 30 MHz	2.86 dB	Nil
Conducted disturbance at terminals		
150 kHz – 30 MHz	2.79 dB	Nil
Disturbance power		
30 MHz – 300 MHz	3.00 dB	4.45 dB
Conducted Power on Antenna Port (15.111)		
30 MHz – 1000 MHz	2.86 dB	Nil
Above 1 GHz	1.60 dB	
38dB Rejection (15.121(b))		
30 MHz – 1000 MHz	0.56 dB	Nil

The above expanded instrumentation uncertainty, U_{lab} , is estimated in accordance with CISPR 16-4-2. Traceability to national standard in SI units is ensured with these values. Compliance with the limits in this standard are determined without in consideration of the measurement uncertainty of the measurement instrumentation.

SECTION 10. EVALUATION OF TEST RESULTS

10.1 Conducted disturbance at mains terminals

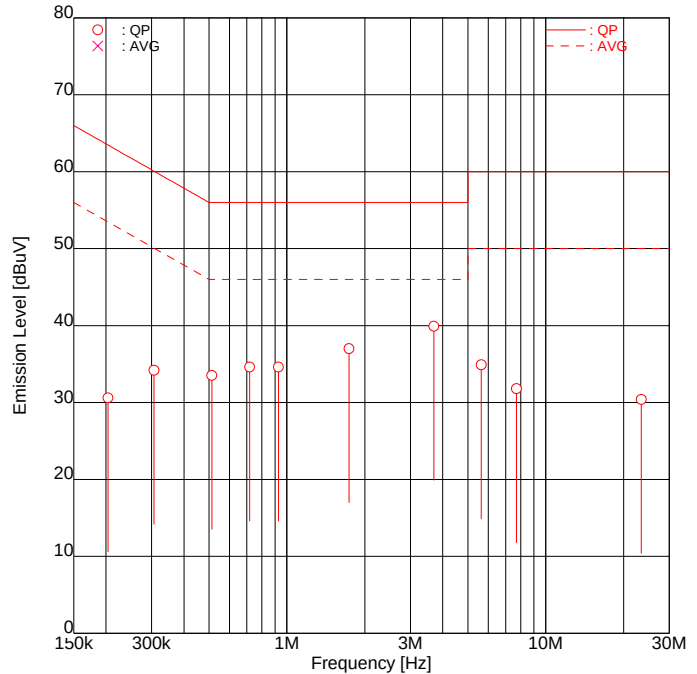
10.1.1 RX mode(136.000MHz :Band A)

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Tochigi No.1 Test Site

Conducted Voltages on Mains Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(136.000MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 30 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 27.0 [degC]
HUMIDITY : 48.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	MODE	READING [dBuV]	FACTOR [dB]		EMISSION [dBuV]		LIMIT [dBuV]	MARGIN [dB]	
			Line1	Line2	Line1	Line2		Line1	Line2
1	0.2036	QP	20.4	18.6	10.2	10.2	63.5	32.9	34.7
2	0.3064	QP	21.5	24.0	10.2	10.2	60.1	28.4	25.9
3	0.5124	QP	22.9	<u>23.2</u>	10.3	10.3	56.0	22.8	<u>22.5</u>
4	0.7177	QP	<u>24.3</u>	23.4	10.3	10.3	56.0	<u>21.4</u>	22.3
5	0.9273	QP	<u>24.3</u>	21.9	10.3	10.3	56.0	<u>21.4</u>	23.8
6	1.7385	QP	<u>26.7</u>	20.0	10.3	10.4	56.0	<u>19.0</u>	25.6
7	3.6961	QP	<u>29.4</u>	26.0	10.5	10.5	56.0	<u>16.1</u>	19.5
8	5.6367	QP	19.0	<u>24.3</u>	10.6	10.6	60.0	30.4	<u>25.1</u>
9	7.7124	QP	21.0	<u>10.9</u>	10.8	10.8	60.0	28.2	<u>38.3</u>
10	23.3842	QP	19.1	14.3	11.3	11.5	60.0	29.6	34.2

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(LISN,Pad,Cable)

emiT 3, 0, 0, 0

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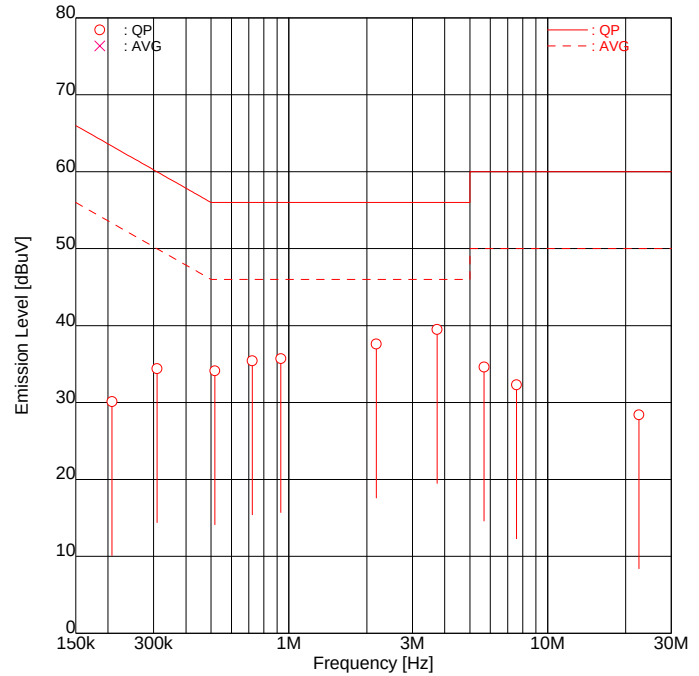
10.1.2 RX mode(155.000MHz :Band A)

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Voltages on Mains Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(155.000MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 30 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 27.0 [degC]
HUMIDITY : 48.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV]		LIMIT [dBuV]	MARGIN [dB]	
			Line1	Line2	Line1	Line2	Line1	Line2		Line1	Line2
1	0.2072	QP	19.9	18.4	10.2	10.2	30.1	28.6	63.3	33.2	34.7
2	0.3094	QP	21.8	24.2	10.2	10.2	32.0	34.4	60.0	28.0	25.6
3	0.5171	QP	23.5	<u>23.8</u>	10.3	10.3	33.8	<u>34.1</u>	56.0	22.2	<u>21.9</u>
4	0.7215	QP	<u>25.1</u>	23.7	10.3	10.3	<u>35.4</u>	34.0	56.0	<u>20.6</u>	22.0
5	0.9301	QP	<u>25.4</u>	23.1	10.3	10.3	<u>35.7</u>	33.4	56.0	<u>20.3</u>	22.6
6	2.1734	QP	<u>27.1</u>	19.3	10.5	10.5	<u>37.6</u>	29.8	56.0	<u>18.4</u>	26.2
7	3.7357	QP	<u>29.0</u>	25.2	10.5	10.5	<u>39.5</u>	35.7	56.0	<u>16.5</u>	20.3
8	5.6782	QP	20.1	<u>24.0</u>	10.6	10.6	30.7	<u>34.6</u>	60.0	29.3	<u>25.4</u>
9	7.5748	QP	21.5	14.8	10.8	10.8	32.3	25.6	60.0	27.7	34.4
10	22.5094	QP	17.1	11.6	11.3	11.5	28.4	23.1	60.0	31.6	36.9

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(LISN,Pad,Cable)

emiT 3, 0, 0, 0

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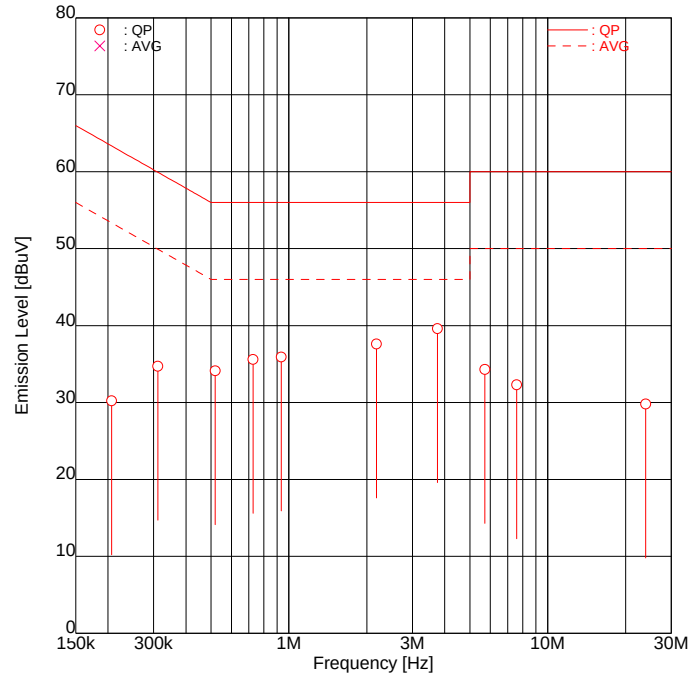
10.1.3 RX mode(173.995MHz :Band A)

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Voltages on Mains Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(173.995MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 30 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 27.0 [degC]
HUMIDITY : 48.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV]		LIMIT [dBuV]	MARGIN [dB]	
			Line1	Line2	Line1	Line2	Line1	Line2		Line1	Line2
1	0.2066	QP	20.0	18.1	10.2	10.2	30.2	28.3	63.3	33.1	35.0
2	0.3117	QP	22.0	<u>24.5</u>	10.2	10.2	32.2	<u>34.7</u>	59.9	27.7	<u>25.2</u>
3	0.5190	QP	23.7	<u>23.8</u>	10.3	10.3	34.0	<u>34.1</u>	56.0	22.0	<u>21.9</u>
4	0.7269	QP	<u>25.3</u>	23.8	10.3	10.3	<u>35.6</u>	34.1	56.0	<u>20.4</u>	21.9
5	0.9346	QP	<u>25.6</u>	23.2	10.3	10.3	<u>35.9</u>	33.5	56.0	<u>20.1</u>	22.5
6	2.1800	QP	<u>27.1</u>	19.5	10.5	10.5	<u>37.6</u>	30.0	56.0	<u>18.4</u>	26.0
7	3.7503	QP	<u>29.1</u>	25.2	10.5	10.5	<u>39.6</u>	35.7	56.0	<u>16.4</u>	20.3
8	5.7130	QP	21.0	23.7	10.6	10.6	31.6	34.3	60.0	28.4	25.7
9	7.5831	QP	21.5	12.2	10.8	10.8	32.3	23.0	60.0	27.7	37.0
10	23.9205	QP	18.5	13.2	11.3	11.5	29.8	24.7	60.0	30.2	35.3

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(LISN,Pad,Cable)

emiT 3, 0, 0, 0

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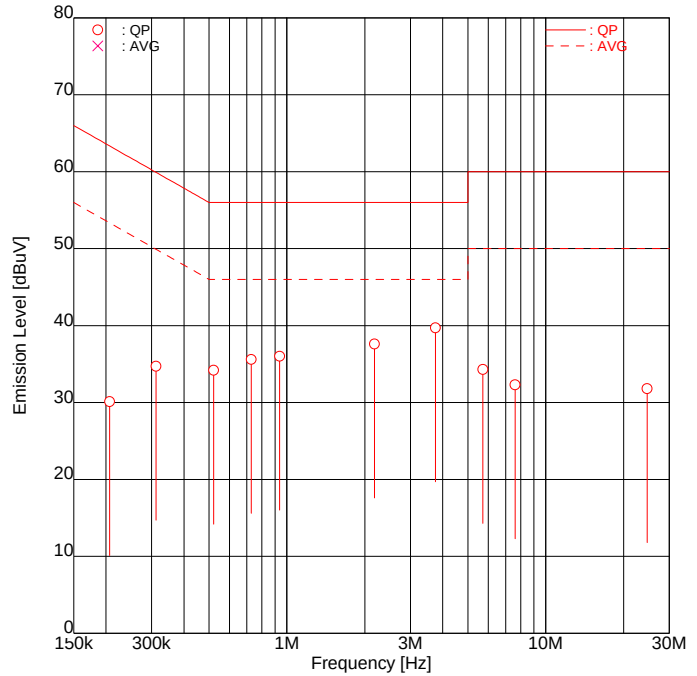
10.1.4 RX mode(410.000MHz :Band A)

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Voltages on Mains Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(410.000MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 30 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 27.0 [degC]
HUMIDITY : 48.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV]		LIMIT [dBuV]	MARGIN [dB]	
			Line1	Line2	Line1	Line2	Line1	Line2		Line1	Line2
1	0.2065	QP	19.9	18.2	10.2	10.2	30.1	28.4	63.3	33.2	34.9
2	0.3121	QP	22.1	<u>24.5</u>	10.2	10.2	32.3	<u>34.7</u>	59.9	27.6	<u>25.2</u>
3	0.5207	QP	23.8	<u>23.9</u>	10.3	10.3	34.1	<u>34.2</u>	56.0	21.9	<u>21.8</u>
4	0.7279	QP	<u>25.3</u>	23.9	10.3	10.3	<u>35.6</u>	34.2	56.0	<u>20.4</u>	21.8
5	0.9368	QP	<u>25.7</u>	23.3	10.3	10.3	<u>36.0</u>	33.6	56.0	<u>20.0</u>	22.4
6	2.1776	QP	<u>27.1</u>	19.8	10.5	10.5	<u>37.6</u>	30.3	56.0	<u>18.4</u>	25.7
7	3.7464	QP	<u>29.2</u>	25.2	10.5	10.5	<u>39.7</u>	35.7	56.0	<u>16.3</u>	20.3
8	5.7144	QP	21.0	23.7	10.6	10.6	31.6	34.3	60.0	28.4	25.7
9	7.6167	QP	21.5	12.1	10.8	10.8	32.3	22.9	60.0	27.7	37.1
10	24.6248	QP	20.5	13.4	11.3	11.5	31.8	24.9	60.0	28.2	35.1

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(LISN,Pad,Cable)

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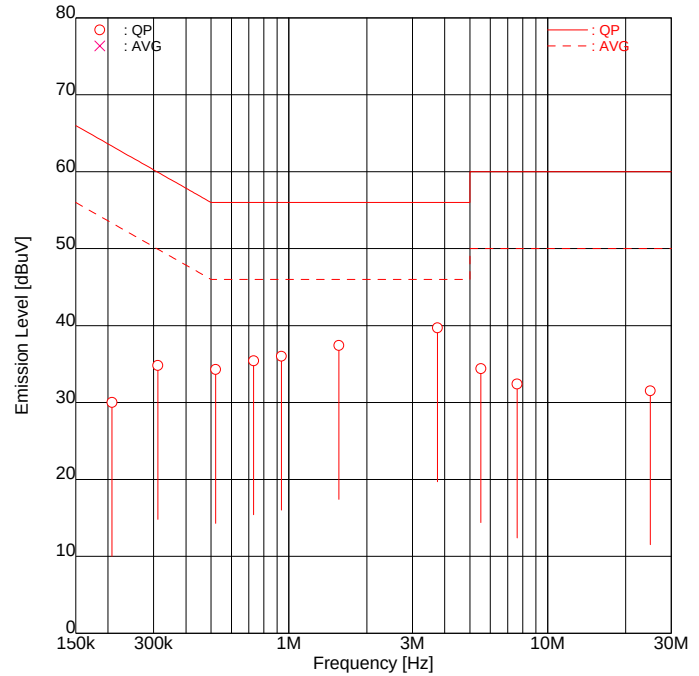
10.1.5 RX mode(440.000MHz :Band A)

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Voltages on Mains Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(440.000MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 30 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 27.0 [degC]
HUMIDITY : 46.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV]		LIMIT [dBuV]	MARGIN [dB]	
			Line1	Line2	Line1	Line2	Line1	Line2		Line1	Line2
1	0.2073	QP	19.8	18.2	10.2	10.2	30.0	28.4	63.3	33.3	34.9
2	0.3116	QP	22.1	<u>24.6</u>	10.2	10.2	32.3	<u>34.8</u>	59.9	27.6	<u>25.1</u>
3	0.5212	QP	23.9	<u>24.0</u>	10.3	10.3	34.2	<u>34.3</u>	56.0	21.8	<u>21.7</u>
4	0.7300	QP	<u>25.1</u>	23.8	10.3	10.3	<u>35.4</u>	34.1	56.0	<u>20.6</u>	21.9
5	0.9360	QP	<u>25.7</u>	23.4	10.3	10.3	<u>36.0</u>	33.7	56.0	<u>20.0</u>	22.3
6	1.5599	QP	<u>27.1</u>	21.0	10.3	10.4	<u>37.4</u>	31.4	56.0	<u>18.6</u>	24.6
7	3.7469	QP	<u>29.2</u>	25.2	10.5	10.5	<u>39.7</u>	35.7	56.0	<u>16.3</u>	20.3
8	5.5128	QP	16.0	23.8	10.6	10.6	26.6	34.4	60.0	33.4	25.6
9	7.6077	QP	21.6	13.6	10.8	10.8	32.4	24.4	60.0	27.6	35.6
10	24.9092	QP	20.2	13.2	11.3	11.5	31.5	24.7	60.0	28.5	35.3

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(LISN,Pad,Cable)

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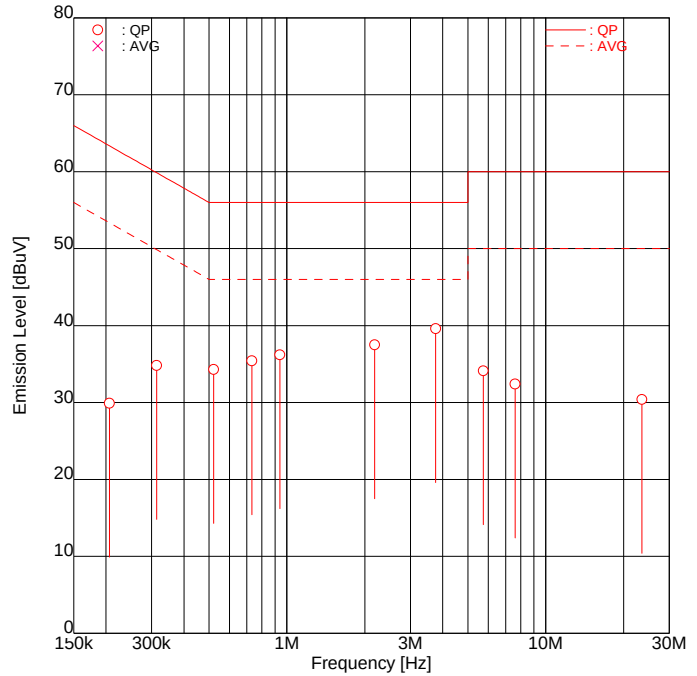
10.1.6 RX mode(469.995MHz :Band A)

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Voltages on Mains Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(469.995MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 30 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 27.0 [degC]
HUMIDITY : 46.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV]		LIMIT [dBuV]	MARGIN [dB]	
			Line1	Line2	Line1	Line2	Line1	Line2		Line1	Line2
1	0.2062	QP	19.7	18.1	10.2	10.2	29.9	28.3	63.4	33.5	35.1
2	0.3139	QP	22.3	<u>24.6</u>	10.2	10.2	32.5	<u>34.8</u>	59.9	27.4	<u>25.1</u>
3	0.5213	QP	<u>24.0</u>	24.0	10.3	10.3	<u>34.3</u>	34.3	56.0	<u>21.7</u>	21.7
4	0.7318	QP	<u>25.1</u>	23.9	10.3	10.3	<u>35.4</u>	34.2	56.0	<u>20.6</u>	21.8
5	0.9393	QP	<u>25.9</u>	23.5	10.3	10.3	<u>36.2</u>	33.8	56.0	<u>19.8</u>	22.2
6	2.1833	QP	<u>27.0</u>	19.6	10.5	10.5	<u>37.5</u>	30.1	56.0	<u>18.5</u>	25.9
7	3.7543	QP	<u>29.1</u>	25.1	10.5	10.5	<u>39.6</u>	35.6	56.0	<u>16.4</u>	20.4
8	5.7390	QP	21.6	23.5	10.6	10.6	32.2	34.1	60.0	27.8	25.9
9	7.6121	QP	21.6	11.7	10.8	10.8	32.4	22.5	60.0	27.6	37.5
10	23.5088	QP	19.1	12.6	11.3	11.5	30.4	24.1	60.0	29.6	35.9

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(LISN,Pad,Cable)

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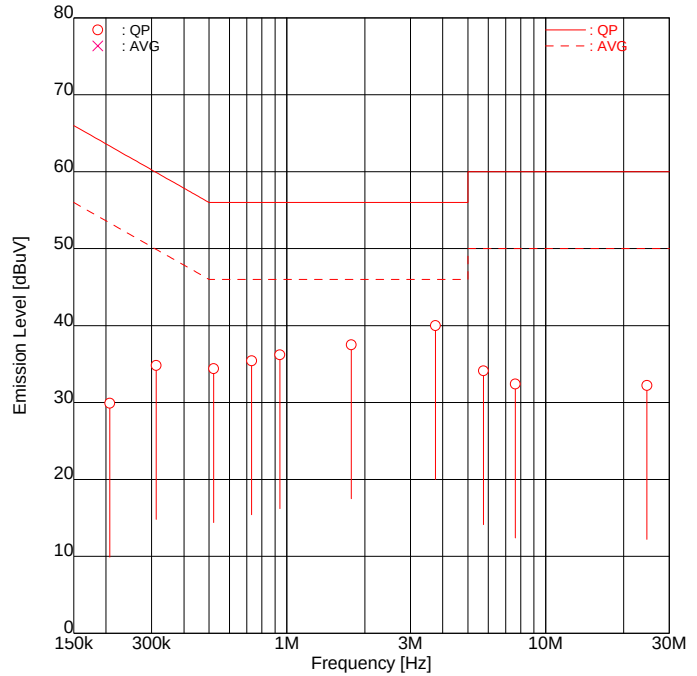
10.1.7 RX mode(118.000MHz :Band B)

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Voltages on Mains Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(118.000MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 30 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 27.0 [degC]
HUMIDITY : 46.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV]		LIMIT [dBuV]	MARGIN [dB]	
			Line1	Line2	Line1	Line2	Line1	Line2		Line1	Line2
1	0.2067	QP	19.7	18.2	10.2	10.2	29.9	28.4	63.3	33.4	34.9
2	0.3125	QP	22.3	<u>24.6</u>	10.2	10.2	32.5	<u>34.8</u>	59.9	27.4	<u>25.1</u>
3	0.5210	QP	24.0	<u>24.1</u>	10.3	10.3	34.3	<u>34.4</u>	56.0	21.7	<u>21.6</u>
4	0.7306	QP	<u>25.1</u>	23.9	10.3	10.3	<u>35.4</u>	34.2	56.0	<u>20.6</u>	21.8
5	0.9382	QP	<u>25.9</u>	23.5	10.3	10.3	<u>36.2</u>	33.8	56.0	<u>19.8</u>	22.2
6	1.7718	QP	<u>27.2</u>	21.0	10.3	10.4	<u>37.5</u>	31.4	56.0	<u>18.5</u>	24.6
7	3.7462	QP	<u>29.5</u>	25.5	10.5	10.5	<u>40.0</u>	36.0	56.0	<u>16.0</u>	20.0
8	5.7460	QP	21.6	23.5	10.6	10.6	32.2	34.1	60.0	27.8	25.9
9	7.6292	QP	21.6	12.3	10.8	10.8	32.4	23.1	60.0	27.6	36.9
10	24.5893	QP	20.9	13.3	11.3	11.5	32.2	24.8	60.0	27.8	35.2

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(LISN,Pad,Cable)

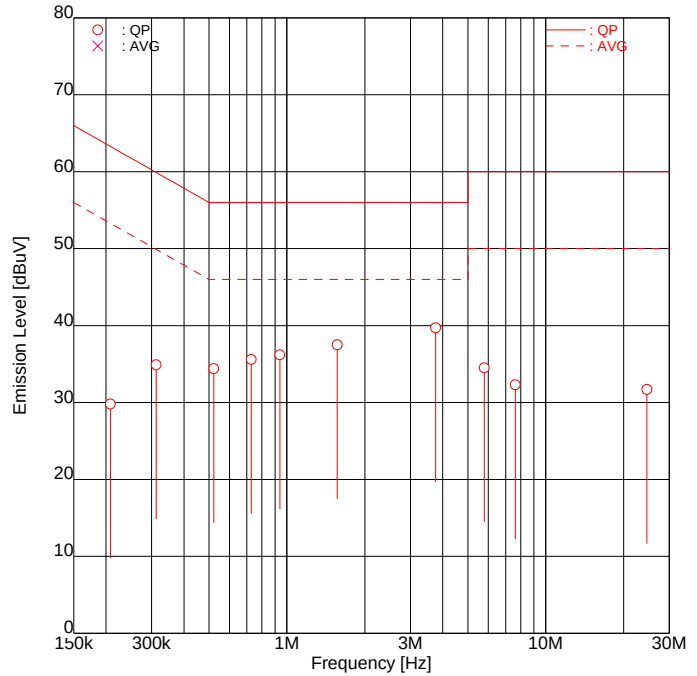
10.1.8 RX mode(146.000MHz :Band B)

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Voltages on Mains Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(146.000MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 30 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 27.0 [degC]
HUMIDITY : 46.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV]		LIMIT [dBuV]	MARGIN [dB]	
			Line1	Line2	Line1	Line2	Line1	Line2		Line1	Line2
1	0.2079	QP	19.6	18.1	10.2	10.2	29.8	28.3	63.3	33.5	35.0
2	0.3126	QP	22.4	<u>24.7</u>	10.2	10.2	32.6	<u>34.9</u>	59.9	27.3	<u>25.0</u>
3	0.5218	QP	<u>24.1</u>	24.1	10.3	10.3	<u>34.4</u>	34.4	56.0	<u>21.6</u>	21.6
4	0.7274	QP	<u>25.3</u>	24.0	10.3	10.3	<u>35.6</u>	34.3	56.0	<u>20.4</u>	21.7
5	0.9392	QP	<u>25.9</u>	23.5	10.3	10.3	<u>36.2</u>	33.8	56.0	<u>19.8</u>	22.2
6	1.5637	QP	<u>27.2</u>	21.1	10.3	10.4	<u>37.5</u>	31.5	56.0	<u>18.5</u>	24.5
7	3.7529	QP	<u>29.2</u>	25.2	10.5	10.5	<u>39.7</u>	35.7	56.0	<u>16.3</u>	20.3
8	5.7910	QP	21.2	23.9	10.6	10.6	31.8	34.5	60.0	28.2	25.5
9	7.6302	QP	21.5	12.1	10.8	10.8	32.3	22.9	60.0	27.7	37.1
10	24.5821	QP	20.4	13.1	11.3	11.5	31.7	24.6	60.0	28.3	35.4

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(LISN,Pad,Cable)

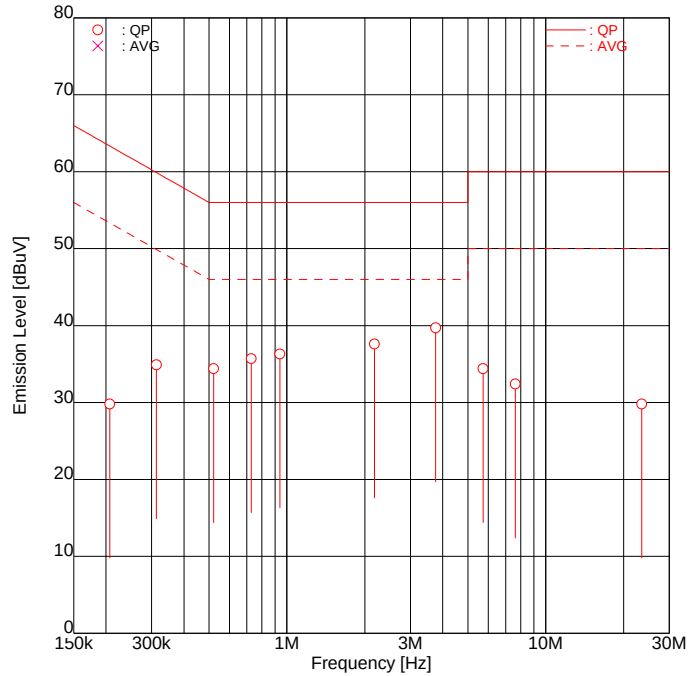
10.1.9 RX mode(173.995MHz :Band B)

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Voltages on Mains Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(173.995MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 30 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 27.0 [degC]
HUMIDITY : 45.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV]		LIMIT [dBuV]	MARGIN [dB]	
			Line1	Line2	Line1	Line2	Line1	Line2		Line1	Line2
1	0.2068	QP	19.6	18.2	10.2	10.2	29.8	28.4	63.3	33.5	34.9
2	0.3130	QP	22.4	<u>24.7</u>	10.2	10.2	32.6	<u>34.9</u>	59.9	27.3	<u>25.0</u>
3	0.5209	QP	24.0	<u>24.1</u>	10.3	10.3	34.3	<u>34.4</u>	56.0	21.7	<u>21.6</u>
4	0.7284	QP	<u>25.4</u>	24.0	10.3	10.3	<u>35.7</u>	34.3	56.0	<u>20.3</u>	21.7
5	0.9391	QP	<u>26.0</u>	23.5	10.3	10.3	<u>36.3</u>	33.8	56.0	<u>19.7</u>	22.2
6	2.1803	QP	<u>27.1</u>	19.7	10.5	10.5	<u>37.6</u>	30.2	56.0	<u>18.4</u>	25.8
7	3.7552	QP	<u>29.2</u>	25.2	10.5	10.5	<u>39.7</u>	35.7	56.0	<u>16.3</u>	20.3
8	5.7291	QP	21.3	23.8	10.6	10.6	31.9	34.4	60.0	28.1	25.6
9	7.6260	QP	21.6	12.1	10.8	10.8	32.4	22.9	60.0	27.6	37.1
10	23.4908	QP	18.5	13.0	11.3	11.5	29.8	24.5	60.0	30.2	35.5

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(LISN,Pad,Cable)

emiT 3, 0, 0, 0

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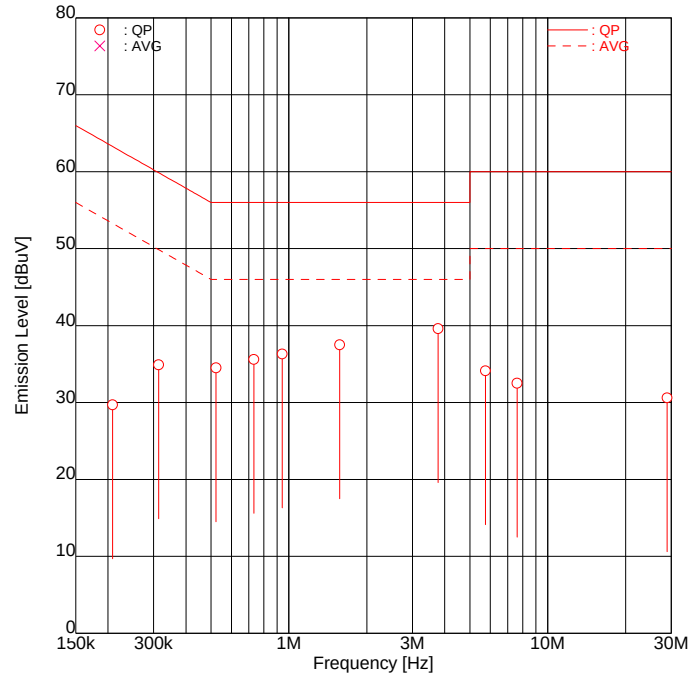
10.1.10 RX mode(320.000MHz :Band B)

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Voltages on Mains Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(320.000MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 30 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 27.0 [degC]
HUMIDITY : 45.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV]		LIMIT [dBuV]	MARGIN [dB]	
			Line1	Line2	Line1	Line2	Line1	Line2		Line1	Line2
1	0.2084	QP	19.5	18.0	10.2	10.2	29.7	28.2	63.3	33.6	35.1
2	0.3136	QP	22.4	<u>24.7</u>	10.2	10.2	32.6	<u>34.9</u>	59.9	27.3	<u>25.0</u>
3	0.5231	QP	24.1	<u>24.2</u>	10.3	10.3	34.4	<u>34.5</u>	56.0	21.6	<u>21.5</u>
4	0.7315	QP	<u>25.3</u>	24.1	10.3	10.3	<u>35.6</u>	34.4	56.0	<u>20.4</u>	21.6
5	0.9420	QP	<u>26.0</u>	23.6	10.3	10.3	<u>36.3</u>	33.9	56.0	<u>19.7</u>	22.1
6	1.5699	QP	<u>27.2</u>	21.1	10.3	10.4	<u>37.5</u>	31.5	56.0	<u>18.5</u>	24.5
7	3.7723	QP	<u>29.1</u>	24.9	10.5	10.5	<u>39.6</u>	35.4	56.0	<u>16.4</u>	20.6
8	5.7520	QP	21.9	23.5	10.6	10.6	32.5	34.1	60.0	27.5	25.9
9	7.6145	QP	21.7	11.2	10.8	10.8	32.5	22.0	60.0	27.5	38.0
10	28.9010	QP	19.4	17.2	11.2	11.5	30.6	28.7	60.0	29.4	31.3

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(LISN,Pad,Cable)

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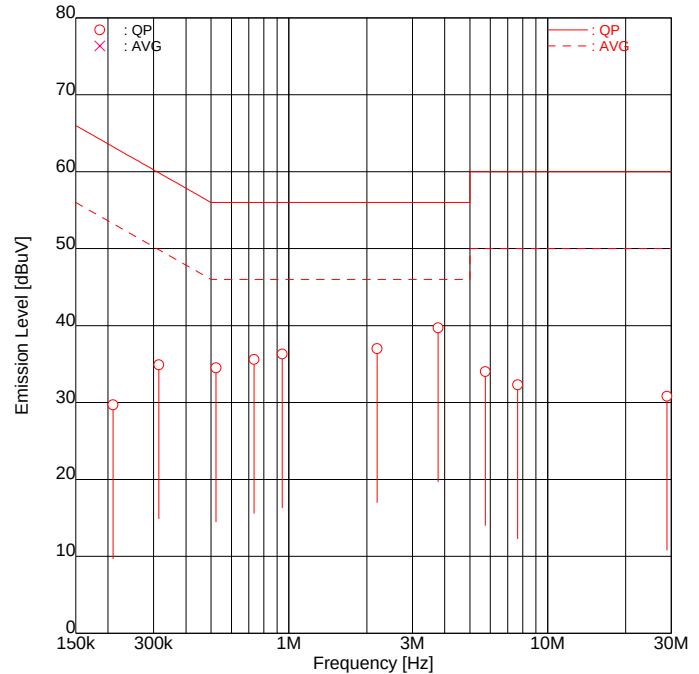
10.1.11 RX mode(422.000MHz :Band B)

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Voltages on Mains Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(422.000MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 30 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 27.0 [degC]
HUMIDITY : 45.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV]		LIMIT [dBuV]	MARGIN [dB]	
			Line1	Line2	Line1	Line2	Line1	Line2		Line1	Line2
1	0.2090	QP	19.5	17.9	10.2	10.2	29.7	28.1	63.2	33.5	35.1
2	0.3143	QP	22.4	<u>24.7</u>	10.2	10.2	32.6	<u>34.9</u>	59.9	27.3	<u>25.0</u>
3	0.5232	QP	<u>24.2</u>	24.2	10.3	10.3	<u>34.5</u>	34.5	56.0	<u>21.5</u>	21.5
4	0.7331	QP	<u>25.3</u>	24.1	10.3	10.3	<u>35.6</u>	34.4	56.0	<u>20.4</u>	21.6
5	0.9428	QP	<u>26.0</u>	23.6	10.3	10.3	<u>36.3</u>	33.9	56.0	<u>19.7</u>	22.1
6	2.1898	QP	<u>26.5</u>	19.1	10.5	10.5	<u>37.0</u>	29.6	56.0	<u>19.0</u>	26.4
7	3.7680	QP	<u>29.2</u>	25.0	10.5	10.5	<u>39.7</u>	35.5	56.0	<u>16.3</u>	20.5
8	5.7393	QP	21.5	23.4	10.6	10.6	32.1	34.0	60.0	27.9	26.0
9	7.6505	QP	21.5	11.2	10.8	10.8	32.3	22.0	60.0	27.7	38.0
10	28.8969	QP	19.6	17.0	11.2	11.5	30.8	28.5	60.0	29.2	31.5

Higher six points are underlined.

Other frequencies : Below the FCC Part15B Class B limit

Emission Level = Read + Factor(LISN,Pad,Cable)

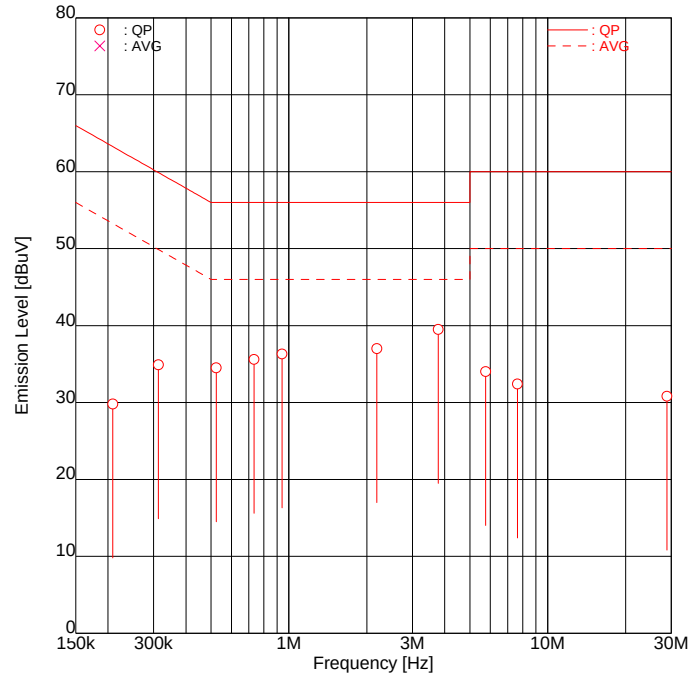
10.1.12 RX mode(523.995MHz :Band B)

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Voltages on Mains Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(523.995MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 30 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 27.0 [degC]
HUMIDITY : 45.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV]		LIMIT [dBuV]	MARGIN [dB]	
			Line1	Line2	Line1	Line2	Line1	Line2		Line1	Line2
1	0.2086	QP	19.6	17.9	10.2	10.2	29.8	28.1	63.3	33.5	35.2
2	0.3133	QP	22.4	<u>24.7</u>	10.2	10.2	32.6	<u>34.9</u>	59.9	27.3	<u>25.0</u>
3	0.5233	QP	<u>24.2</u>	24.2	10.3	10.3	<u>34.5</u>	34.5	56.0	<u>21.5</u>	21.5
4	0.7334	QP	<u>25.3</u>	24.1	10.3	10.3	<u>35.6</u>	34.4	56.0	<u>20.4</u>	21.6
5	0.9398	QP	<u>26.0</u>	23.6	10.3	10.3	<u>36.3</u>	33.9	56.0	<u>19.7</u>	22.1
6	2.1867	QP	<u>26.5</u>	18.9	10.5	10.5	<u>37.0</u>	29.4	56.0	<u>19.0</u>	26.6
7	3.7757	QP	<u>29.0</u>	25.0	10.5	10.5	<u>39.5</u>	35.5	56.0	<u>16.5</u>	20.5
8	5.7552	QP	21.8	23.4	10.6	10.6	32.4	34.0	60.0	27.6	26.0
9	7.6453	QP	21.6	11.2	10.8	10.8	32.4	22.0	60.0	27.6	38.0
10	28.8927	QP	19.6	17.2	11.2	11.5	30.8	28.7	60.0	29.2	31.3

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(LISN,Pad,Cable)

10.2 Radiated disturbance

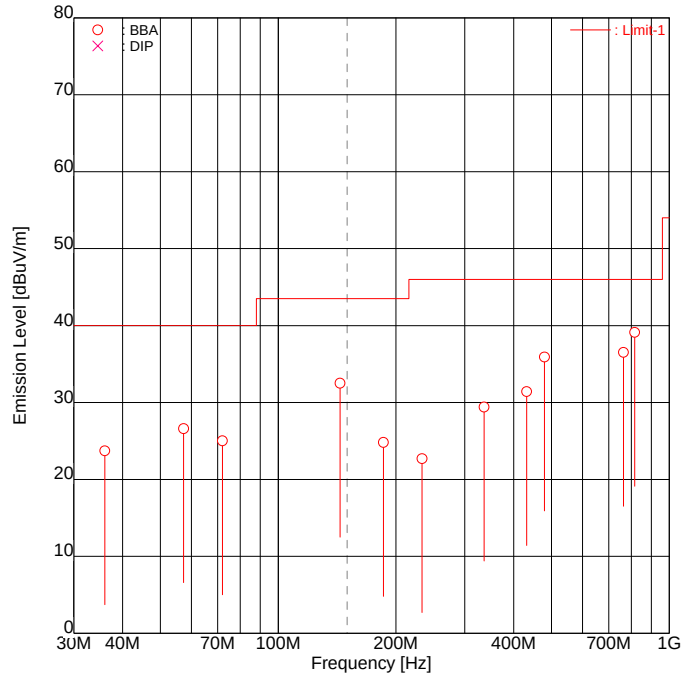
10.2.1 RX mode(136.000MHz :Band A) [30 – 1000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(136.000MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 30 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 27.0 [degC]
HUMIDITY : 46.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	ANT.	READING [dBuV]		FACTOR [dB/m]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	36.03	BBA	-	30.6	-6.9	-6.9	-	23.7	40.0	-	16.3
2	57.28	BBA	-	<u>32.1</u>	-5.5	-5.5	-	<u>26.6</u>	40.0	-	<u>13.4</u>
3	72.06	BBA	32.3	-	-7.3	-7.3	25.0	-	40.0	15.0	-
4	144.01	BBA	<u>36.9</u>	36.8	-4.4	-4.4	<u>32.5</u>	32.4	43.5	<u>11.0</u>	11.1
5	185.95	BBA	27.6	30.3	-5.5	-5.5	22.1	24.8	43.5	21.4	18.7
6	233.32	BBA	27.5	26.8	-4.8	-4.8	22.7	22.0	46.0	23.3	24.0
7	336.04	BBA	30.5	-	-1.1	-1.1	29.4	-	46.0	16.6	-
8	432.06	BBA	<u>30.4</u>	-	1.0	1.0	<u>31.4</u>	-	46.0	<u>14.6</u>	-
9	480.06	BBA	31.8	<u>33.6</u>	2.3	2.3	34.1	<u>35.9</u>	46.0	11.9	<u>10.1</u>
10	764.46	BBA	23.6	<u>27.9</u>	8.6	8.6	32.2	<u>36.5</u>	46.0	13.8	<u>9.5</u>
11	816.11	BBA	<u>29.5</u>	<u>29.3</u>	9.6	9.6	<u>39.1</u>	<u>38.9</u>	46.0	<u>6.9</u>	7.1

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

10.2.2 RX mode(136.000MHz :Band A) [1000 – 8000MHz]

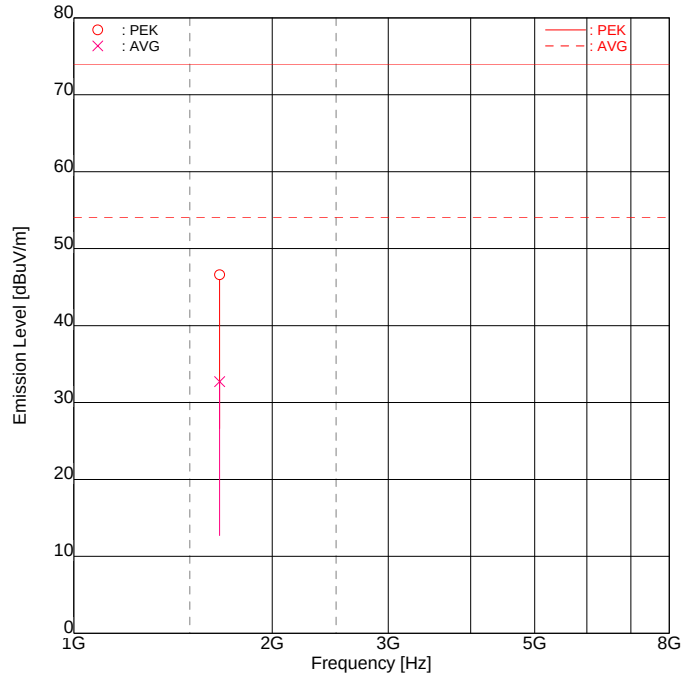
Intertek Japan K.K.

Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(136.000MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Sep 03 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 24.0 [degC]
HUMIDITY : 48.0 [%]
NOTE :

ENGINEER : Atsuyuki Morishima



FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	1664.70	PEK	46.1	<u>46.8</u>	-0.2	-0.2	45.9	<u>46.6</u>	74.0	28.1	<u>27.4</u>
2	1664.70	AVG	32.2	<u>32.9</u>	-0.2	-0.2	32.0	<u>32.7</u>	54.0	22.0	<u>21.3</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

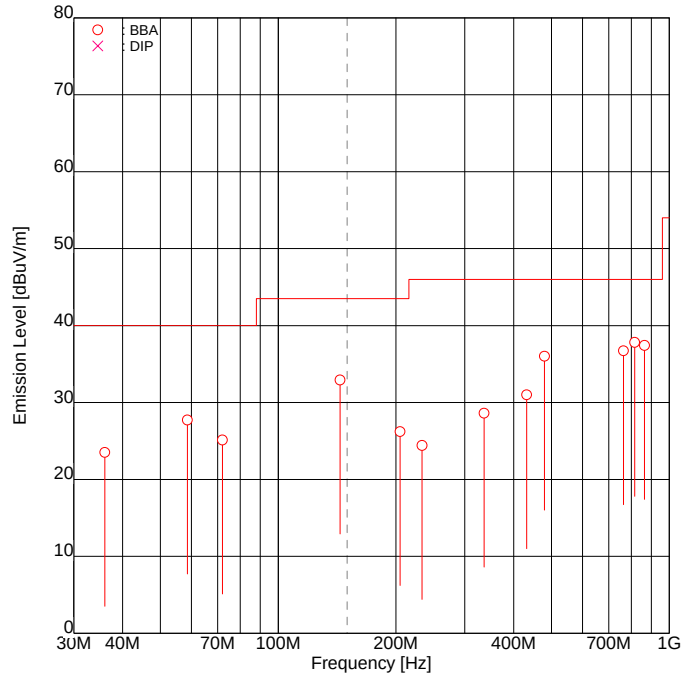
10.2.3 RX mode(155.000MHz :Band A) [30 – 1000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(155.000MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 30 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 28.0 [degC]
HUMIDITY : 45.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	ANT.	READING [dBuV]		FACTOR [dB/m]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	36.03	BBA	-	30.4	-6.9	-6.9	-	23.5	40.0	-	16.5
2	58.61	BBA	-	<u>33.2</u>	-5.5	-5.5	-	<u>27.7</u>	40.0	-	<u>12.3</u>
3	72.06	BBA	32.4	-	-7.3	-7.3	25.1	-	40.0	14.9	-
4	144.01	BBA	<u>37.3</u>	34.9	-4.4	-4.4	<u>32.9</u>	30.5	43.5	<u>10.6</u>	13.0
5	204.95	BBA	32.3	29.3	-6.1	-6.1	26.2	23.2	43.5	17.3	20.3
6	233.32	BBA	29.2	28.5	-4.8	-4.8	24.4	23.7	46.0	21.6	22.3
7	336.04	BBA	29.7	-	-1.1	-1.1	28.6	-	46.0	17.4	-
8	432.06	BBA	30.0	-	1.0	1.0	31.0	-	46.0	15.0	-
9	480.06	BBA	31.9	<u>33.7</u>	2.3	2.3	34.2	<u>36.0</u>	46.0	11.8	<u>10.0</u>
10	764.44	BBA	25.0	<u>28.1</u>	8.6	8.6	33.6	<u>36.7</u>	46.0	12.4	<u>9.3</u>
11	816.11	BBA	<u>28.2</u>	<u>28.1</u>	9.6	9.6	<u>37.8</u>	<u>37.7</u>	46.0	<u>8.2</u>	<u>8.3</u>
12	864.11	BBA	26.7	<u>26.8</u>	10.6	10.6	37.3	<u>37.4</u>	46.0	<u>8.7</u>	<u>8.6</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

10.2.4 RX mode(155.000MHz :Band A) [1000 – 8000MHz]

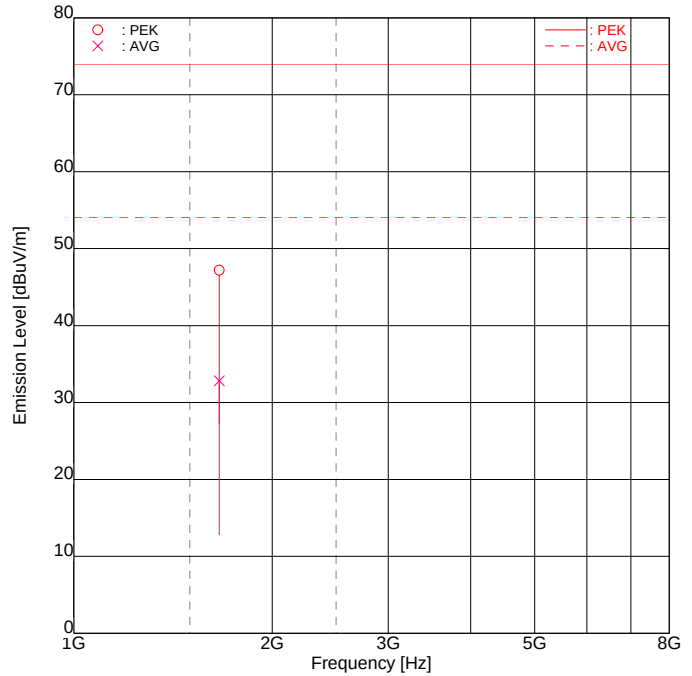
Intertek Japan K.K.

Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(155.000MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Sep 03 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 24.0 [degC]
HUMIDITY : 48.0 [%]
NOTE :

ENGINEER : Atsuyuki Morishima



FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	1661.87	PEK	46.0	<u>47.4</u>	-0.2	-0.2	45.8	<u>47.2</u>	74.0	28.2	<u>26.8</u>
2	1661.87	AVG	32.3	<u>33.0</u>	-0.2	-0.2	32.1	<u>32.8</u>	54.0	21.9	<u>21.2</u>

Higher six points are underlined.

Other frequencies : Below the FCC Part15B Class B limit

Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)

ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

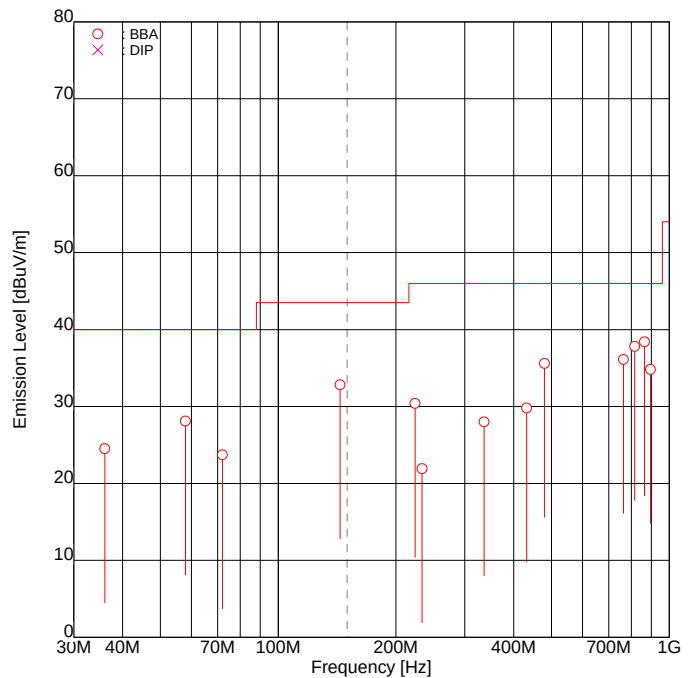
10.2.5 RX mode(173.995MHz :Band A) [30 – 1000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(173.995MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 30 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 26.0 [degC]
HUMIDITY : 45.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQ [MHz]	ANT.	READING [dBuV]		FACTOR [dB/m]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	36.03	BBA	-	31.4	-6.9	-6.9	-	24.5	40.0	-	15.5
2	57.94	BBA	-	33.6	-5.5	-5.5	-	28.1	40.0	-	11.9
3	72.06	BBA	31.0	-	-7.3	-7.3	23.7	-	40.0	16.3	-
4	144.01	BBA	<u>37.2</u>	36.7	-4.4	-4.4	<u>32.8</u>	32.3	43.5	<u>10.7</u>	11.2
5	223.94	BBA	35.7	33.6	-5.3	-5.3	30.4	28.3	46.0	15.6	17.7
6	233.32	BBA	25.6	26.7	-4.8	-4.8	20.8	21.9	46.0	25.2	24.1
7	336.04	BBA	29.1	-	-1.1	-1.1	28.0	-	46.0	18.0	-
8	432.06	BBA	28.8	-	1.0	1.0	29.8	-	46.0	16.2	-
9	480.06	BBA	32.0	<u>33.3</u>	2.3	2.3	34.3	<u>35.6</u>	46.0	11.7	<u>10.4</u>
10	764.40	BBA	23.1	<u>27.5</u>	8.6	8.6	31.7	<u>36.1</u>	46.0	14.3	<u>9.9</u>
11	816.11	BBA	<u>28.2</u>	<u>27.7</u>	9.6	9.6	<u>37.8</u>	<u>37.3</u>	46.0	8.2	8.7
12	864.11	BBA	<u>27.8</u>	26.1	10.6	10.6	<u>38.4</u>	36.7	46.0	<u>7.6</u>	9.3
13	895.78	BBA	<u>23.6</u>	22.4	11.2	11.2	<u>34.8</u>	33.6	46.0	<u>11.2</u>	12.4

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamplifier)
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

10.2.6 RX mode(173.995MHz :Band A) [1000 – 8000MHz]

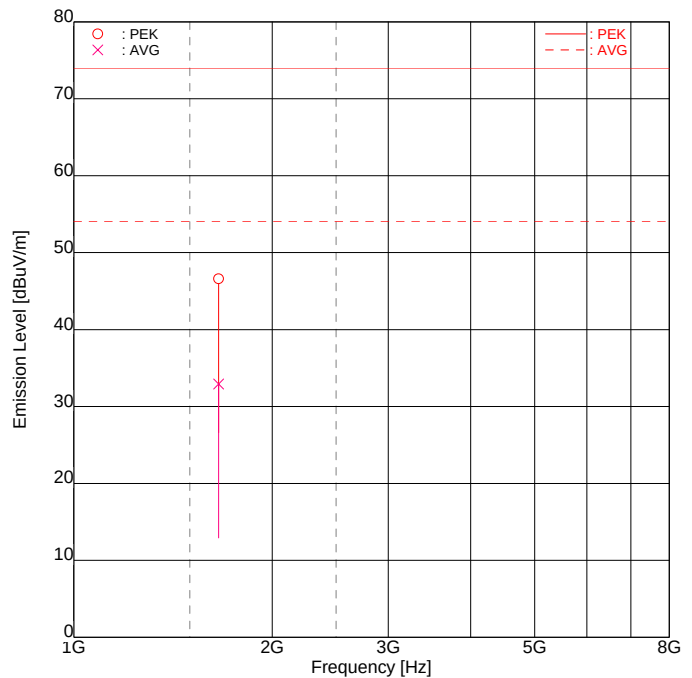
Intertek Japan K.K.

Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(173.995MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Sep 03 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 24.0 [degC]
HUMIDITY : 48.0 [%]
NOTE :

ENGINEER : Atsuyuki Morishima



FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	1659.33	PEK	46.0	<u>46.8</u>	-0.2	-0.2	45.8	<u>46.6</u>	74.0	28.2	<u>27.4</u>
2	1659.33	AVG	32.4	<u>33.1</u>	-0.2	-0.2	32.2	<u>32.9</u>	54.0	21.8	<u>21.1</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

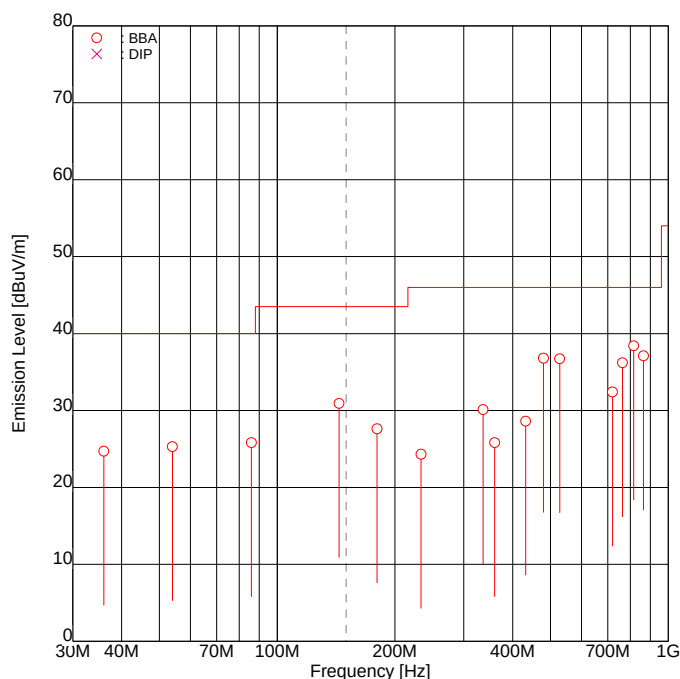
10.2.7 RX mode(410.000MHz :Band A) [30 – 1000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(410.000MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Sep 01 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 28.0 [degC]
HUMIDITY : 45.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQ [No]	FREQUENCY [MHz]	ANT.	READING [dBuV]		FACTOR [dB/m]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	36.03	BBA	-	31.6	-6.9	-6.9	-	24.7	40.0	-	15.3
2	53.95	BBA	-	30.8	-5.5	-5.5	-	25.3	40.0	-	14.7
3	85.90	BBA	35.9	-	-10.1	-10.1	25.8	-	40.0	14.2	-
4	144.01	BBA	<u>35.3</u>	35.1	-4.4	-4.4	<u>30.9</u>	30.7	43.5	<u>12.6</u>	12.8
5	180.02	BBA	-	32.8	-5.2	-5.2	-	27.6	43.5	-	15.9
6	233.32	BBA	29.1	27.5	-4.8	-4.8	24.3	22.7	46.0	21.7	23.3
7	336.04	BBA	31.2	-	-1.1	-1.1	30.1	-	46.0	15.9	-
8	360.05	BBA	26.4	22.2	-0.6	-0.6	25.8	21.6	46.0	20.2	24.4
9	432.06	BBA	27.6	-	1.0	1.0	28.6	-	46.0	17.4	-
10	480.06	BBA	30.4	<u>34.5</u>	2.3	2.3	32.7	<u>36.8</u>	46.0	13.3	<u>9.2</u>
11	528.07	BBA	-	<u>33.2</u>	3.5	3.5	-	<u>36.7</u>	46.0	-	<u>9.3</u>
12	720.10	BBA	24.7	23.8	7.7	7.7	32.4	31.5	46.0	13.6	14.5
13	764.40	BBA	24.6	<u>27.6</u>	8.6	8.6	33.2	<u>36.2</u>	46.0	12.8	<u>9.8</u>
14	816.11	BBA	<u>28.8</u>	27.7	9.6	9.6	<u>38.4</u>	37.3	46.0	<u>7.6</u>	8.7
15	864.11	BBA	25.8	<u>26.5</u>	10.6	10.6	36.4	<u>37.1</u>	46.0	9.6	<u>8.9</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

10.2.8 RX mode(410.000MHz :Band A) [1000 – 8000MHz]

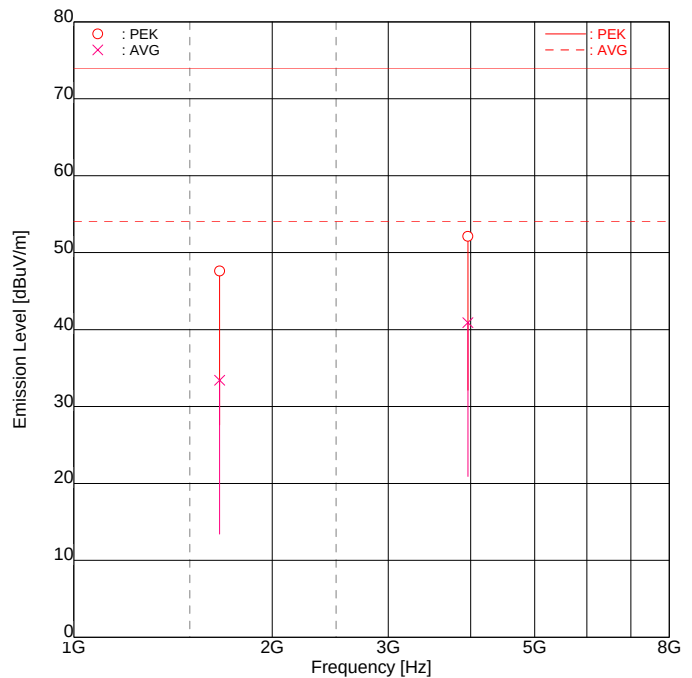
Intertek Japan K.K.

Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(410.000MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Sep 03 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 24.0 [degC]
HUMIDITY : 48.0 [%]
NOTE :

ENGINEER : Atsuyuki Morishima



FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	1664.67	PEK	46.1	<u>47.8</u>	-0.2	-0.2	45.9	<u>47.6</u>	74.0	28.1	<u>26.4</u>
2	1664.67	AVG	32.5	<u>33.6</u>	-0.2	-0.2	32.3	<u>33.4</u>	54.0	21.7	<u>20.6</u>
3	3960.57	PEK	43.9	<u>44.0</u>	8.1	8.1	52.0	<u>52.1</u>	74.0	22.0	<u>21.9</u>
4	3960.57	AVG	<u>32.8</u>	31.9	8.1	8.1	<u>40.9</u>	40.0	54.0	<u>13.1</u>	14.0

Higher six points are underlined.

Other frequencies : Below the FCC Part15B Class B limit

Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)

ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

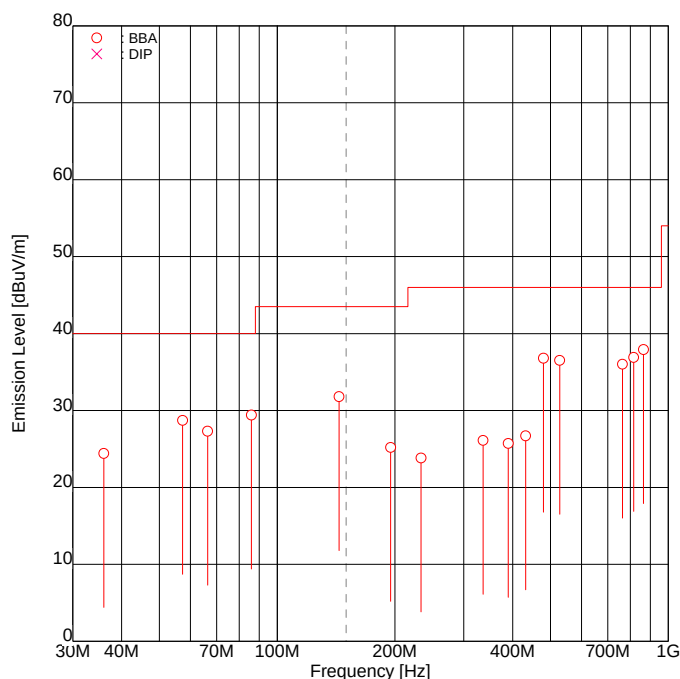
10.2.9 RX mode(440.000MHz :Band A) [30 – 1000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(440.000MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Sep 02 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 28.0 [degC]
HUMIDITY : 45.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	ANT.	READING [dBuV]		FACTOR [dB/m]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	36.03	BBA	-	31.3	-6.9	-6.9	-	24.4	40.0	-	15.6
2	57.28	BBA	-	34.2	-5.5	-5.5	-	28.7	40.0	-	11.3
3	66.38	BBA	33.7	-	-6.4	-6.4	27.3	-	40.0	12.7	-
4	85.90	BBA	36.8	<u>39.5</u>	-10.1	-10.1	26.7	<u>29.4</u>	40.0	13.3	<u>10.6</u>
5	144.01	BBA	36.2	34.5	-4.4	-4.4	31.8	30.1	43.5	11.7	13.4
6	195.03	BBA	31.2	29.2	-6.0	-6.0	25.2	23.2	43.5	18.3	20.3
7	233.32	BBA	27.7	28.6	-4.8	-4.8	22.9	23.8	46.0	23.1	22.2
8	336.04	BBA	27.2	-	-1.1	-1.1	26.1	-	46.0	19.9	-
9	390.05	BBA	25.7	21.3	0.0	0.0	25.7	21.3	46.0	20.3	24.7
10	432.06	BBA	25.7	-	1.0	1.0	26.7	-	46.0	19.3	-
11	480.06	BBA	32.2	<u>34.5</u>	2.3	2.3	34.5	<u>36.8</u>	46.0	11.5	<u>9.2</u>
12	528.07	BBA	-	<u>33.0</u>	3.5	3.5	-	<u>36.5</u>	46.0	-	<u>9.5</u>
13	764.40	BBA	23.5	<u>27.4</u>	8.6	8.6	32.1	<u>36.0</u>	46.0	13.9	<u>10.0</u>
14	816.11	BBA	<u>27.3</u>	26.1	9.6	9.6	<u>36.9</u>	35.7	46.0	<u>9.1</u>	10.3
15	864.11	BBA	25.5	<u>27.3</u>	10.6	10.6	36.1	<u>37.9</u>	46.0	9.9	<u>8.1</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

10.2.10 RX mode(440.000MHz :Band A) [1000 – 8000MHz]

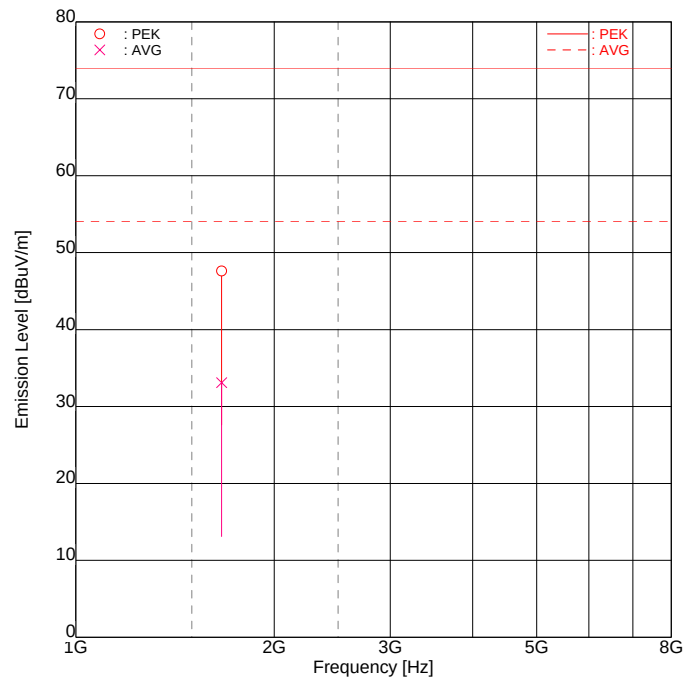
Intertek Japan K.K.

Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(440.000MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Sep 03 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 24.0 [degC]
HUMIDITY : 47.0 [%]
NOTE :

ENGINEER : Atsuyuki Morishima



FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	1664.70	PEK	47.0	<u>47.8</u>	-0.2	-0.2	46.8	<u>47.6</u>	74.0	27.2	<u>26.4</u>
2	1664.70	AVG	32.0	<u>33.3</u>	-0.2	-0.2	31.8	<u>33.1</u>	54.0	22.2	<u>20.9</u>

Higher six points are underlined.

Other frequencies : Below the FCC Part15B Class B limit

Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)

ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

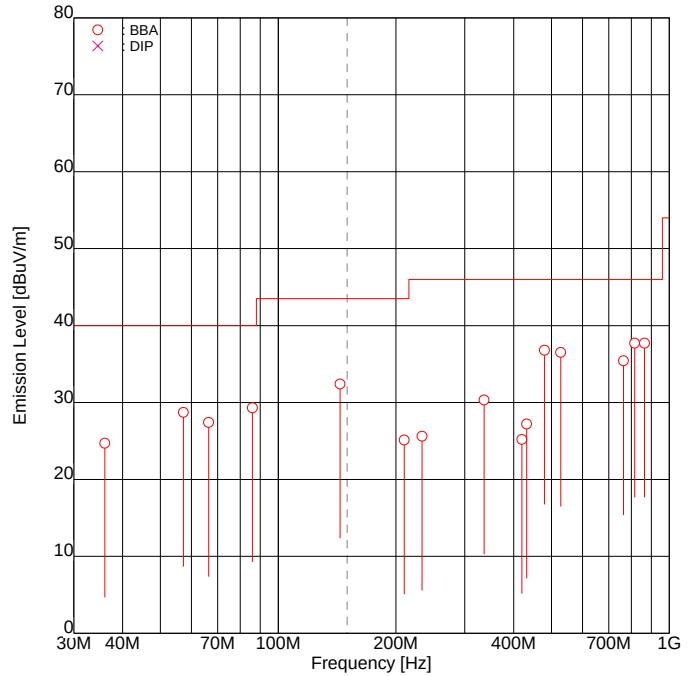
10.2.11 RX mode(469.995MHz :Band A) [30 – 1000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(469.995MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Sep 02 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 28.0 [degC]
HUMIDITY : 45.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQ [No]	FREQUENCY [MHz]	ANT.	READING [dBuV]		FACTOR [dB/m]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	36.03	BBA	-	31.6	-6.9	-6.9	-	24.7	40.0	-	15.3
2	57.27	BBA	-	34.2	-5.5	-5.5	-	28.7	40.0	-	11.3
3	66.38	BBA	33.8	-	-6.4	-6.4	27.4	-	40.0	12.6	-
4	85.90	BBA	37.4	<u>39.4</u>	-10.1	-10.1	27.3	<u>29.3</u>	40.0	12.7	<u>10.7</u>
5	144.01	BBA	36.8	34.7	-4.4	-4.4	32.4	30.3	43.5	11.1	13.2
6	210.02	BBA	31.0	28.3	-5.9	-5.9	25.1	22.4	43.5	18.4	21.1
7	233.32	BBA	26.9	30.4	-4.8	-4.8	22.1	25.6	46.0	23.9	20.4
8	336.04	BBA	31.4	-	-1.1	-1.1	30.3	-	46.0	15.7	-
9	420.05	BBA	24.5	22.4	0.7	0.7	25.2	23.1	46.0	20.8	22.9
10	432.06	BBA	26.2	-	1.0	1.0	27.2	-	46.0	18.8	-
11	480.06	BBA	32.1	<u>34.5</u>	2.3	2.3	34.4	<u>36.8</u>	46.0	11.6	<u>9.2</u>
12	528.07	BBA	-	<u>33.0</u>	3.5	3.5	-	<u>36.5</u>	46.0	-	<u>9.5</u>
13	764.40	BBA	23.7	<u>26.8</u>	8.6	8.6	32.3	<u>35.4</u>	46.0	13.7	<u>10.6</u>
14	816.11	BBA	26.5	<u>28.1</u>	9.6	9.6	36.1	<u>37.7</u>	46.0	9.9	<u>8.3</u>
15	864.11	BBA	25.4	<u>27.1</u>	10.6	10.6	36.0	<u>37.7</u>	46.0	10.0	<u>8.3</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

10.2.12 RX mode(469.995MHz :Band A) [1000 – 8000MHz]

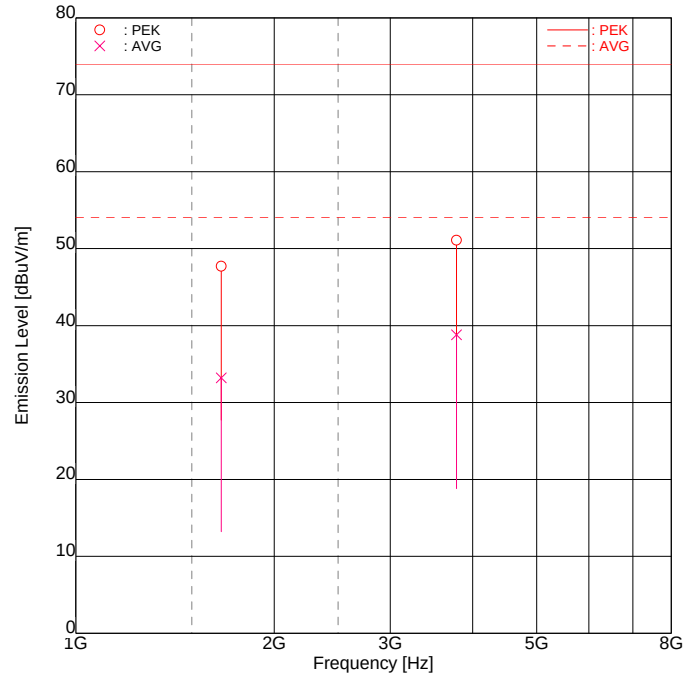
Intertek Japan K.K.

Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(469.995MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Sep 03 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 24.0 [degC]
HUMIDITY : 47.0 [%]
NOTE :

ENGINEER : Atsuyuki Morishima



FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	1662.23	PEK	45.6	<u>47.9</u>	-0.2	-0.2	45.4	<u>47.7</u>	74.0	28.6	<u>26.3</u>
2	1662.23	AVG	32.7	<u>33.4</u>	-0.2	-0.2	32.5	<u>33.2</u>	54.0	21.5	<u>20.8</u>
3	3780.03	PEK	43.8	<u>43.9</u>	7.2	7.2	51.0	<u>51.1</u>	74.0	23.0	<u>22.9</u>
4	3780.03	AVG	<u>31.6</u>	30.9	7.2	7.2	<u>38.8</u>	38.1	54.0	<u>15.2</u>	15.9

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

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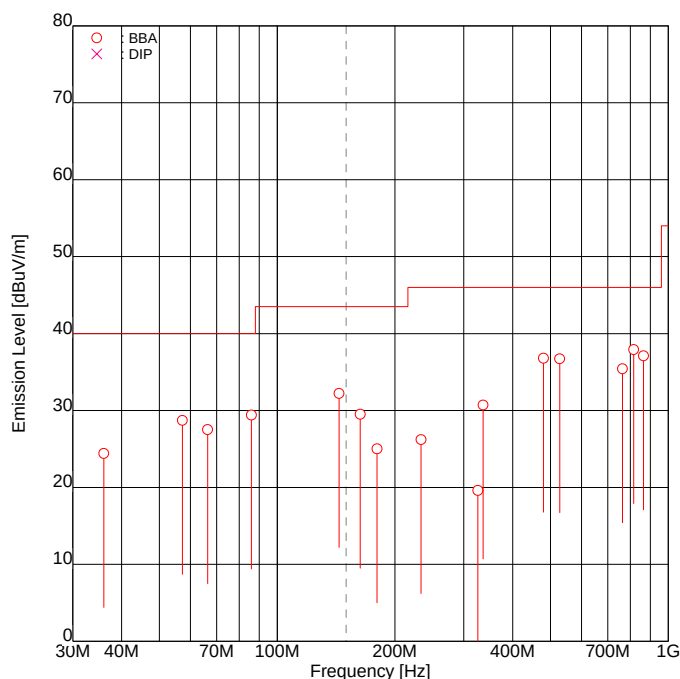
10.2.13 RX mode(118.000MHz :Band B) [30 – 1000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(118.000MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Sep 02 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 26.0 [degC]
HUMIDITY : 45.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQ [MHz]	ANT.	READING [dBuV]		FACTOR [dB/m]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	36.03	BBA	-	31.3	-6.9	-6.9	-	24.4	40.0	-	15.6
2	57.27	BBA	-	34.2	-5.5	-5.5	-	28.7	40.0	-	11.3
3	66.38	BBA	33.9	-	-6.4	-6.4	27.5	-	40.0	12.5	-
4	85.90	BBA	37.2	<u>39.5</u>	-10.1	-10.1	27.1	<u>29.4</u>	40.0	12.9	<u>10.6</u>
5	144.01	BBA	36.6	34.7	-4.4	-4.4	32.2	30.3	43.5	11.3	13.2
6	163.05	BBA	33.5	33.3	-4.0	-4.0	29.5	29.3	43.5	14.0	14.2
7	179.99	BBA	-	30.2	-5.2	-5.2	-	25.0	43.5	-	18.5
8	233.32	BBA	27.6	31.0	-4.8	-4.8	22.8	26.2	46.0	23.2	19.8
9	326.10	BBA	20.9	20.5	-1.3	-1.3	19.6	19.2	46.0	26.4	26.8
10	336.04	BBA	31.8	-	-1.1	-1.1	30.7	-	46.0	15.3	-
11	480.06	BBA	31.7	<u>34.5</u>	2.3	2.3	34.0	<u>36.8</u>	46.0	12.0	<u>9.2</u>
12	528.07	BBA	-	<u>33.2</u>	3.5	3.5	-	<u>36.7</u>	46.0	-	<u>9.3</u>
13	764.40	BBA	22.9	<u>26.8</u>	8.6	8.6	31.5	<u>35.4</u>	46.0	14.5	<u>10.6</u>
14	816.11	BBA	27.8	<u>28.3</u>	9.6	9.6	37.4	<u>37.9</u>	46.0	8.6	<u>8.1</u>
15	864.11	BBA	26.1	<u>26.5</u>	10.6	10.6	36.7	<u>37.1</u>	46.0	9.3	<u>8.9</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

10.2.14 RX mode(118.000MHz :Band B) [1000 – 8000MHz]

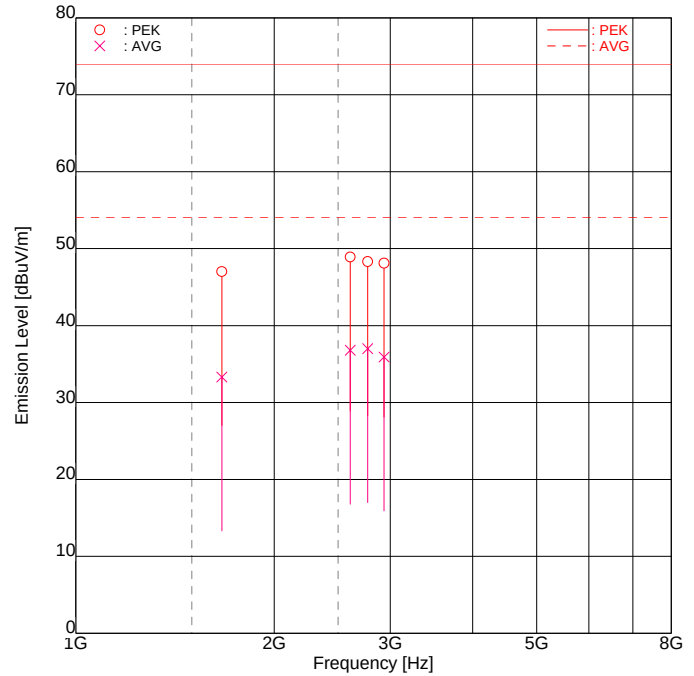
Intertek Japan K.K.

Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(118.000MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Sep 03 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 24.0 [degC]
HUMIDITY : 47.0 [%]
NOTE :

ENGINEER : Atsuyuki Morishima



FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	1665.83	PEK	45.9	47.2	-0.2	-0.2	45.7	47.0	74.0	28.3	27.0
2	1665.83	AVG	32.9	<u>33.5</u>	-0.2	-0.2	32.7	<u>33.3</u>	54.0	21.3	<u>20.7</u>
3	2608.60	PEK	<u>45.7</u>	45.4	3.2	3.2	<u>48.9</u>	48.6	74.0	<u>25.1</u>	25.4
4	2608.60	AVG	33.3	<u>33.6</u>	3.2	3.2	36.5	<u>36.8</u>	54.0	17.5	<u>17.2</u>
5	2771.85	PEK	44.4	<u>44.6</u>	3.7	3.7	48.1	<u>48.3</u>	74.0	25.9	<u>25.7</u>
6	2771.85	AVG	<u>33.3</u>	32.0	3.7	3.7	<u>37.0</u>	35.7	54.0	<u>17.0</u>	18.3
7	2934.90	PEK	43.8	43.9	4.2	4.2	48.0	48.1	74.0	26.0	25.9
8	2934.90	AVG	<u>31.7</u>	31.4	4.2	4.2	<u>35.9</u>	35.6	54.0	<u>18.1</u>	18.4

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

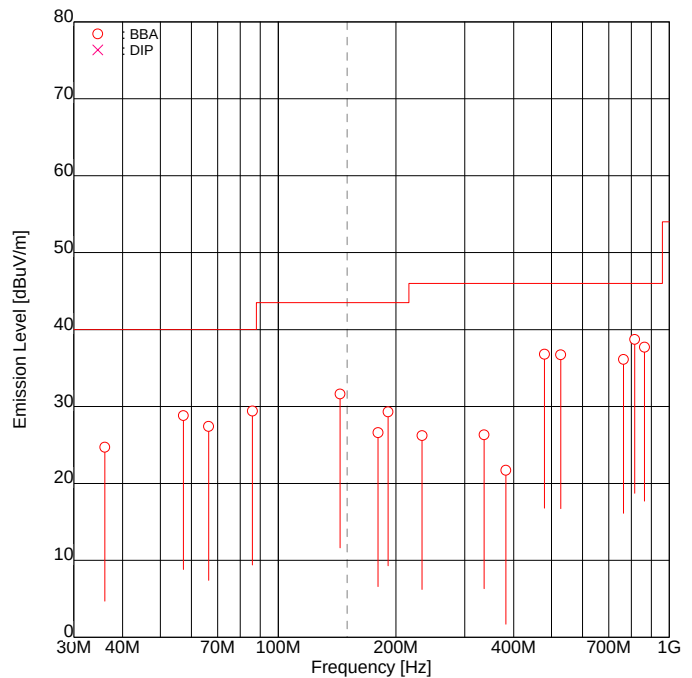
10.2.15 RX mode(146.000MHz :Band B) [30 – 1000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(146.000MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Sep 02 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 26.0 [degC]
HUMIDITY : 45.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

No	FREQUENCY [MHz]	ANT.	READING [dBuV]		FACTOR [dB/m]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	36.03	BBA	-	31.6	-6.9	-6.9	-	24.7	40.0	-	15.3
2	57.27	BBA	-	34.3	-5.5	-5.5	-	28.8	40.0	-	11.2
3	66.42	BBA	33.8	-	-6.4	-6.4	27.4	-	40.0	12.6	-
4	85.90	BBA	36.9	<u>39.5</u>	-10.1	-10.1	26.8	<u>29.4</u>	40.0	13.2	<u>10.6</u>
5	144.01	BBA	36.0	34.7	-4.4	-4.4	31.6	30.3	43.5	11.9	13.2
6	179.99	BBA	-	31.8	-5.2	-5.2	-	26.6	43.5	-	16.9
7	191.05	BBA	35.1	35.0	-5.8	-5.8	29.3	29.2	43.5	14.2	14.3
8	233.32	BBA	27.8	31.0	-4.8	-4.8	23.0	26.2	46.0	23.0	19.8
9	336.04	BBA	27.4	-	-1.1	-1.1	26.3	-	46.0	19.7	-
10	382.10	BBA	21.0	21.9	-0.2	-0.2	20.8	21.7	46.0	25.2	24.3
11	480.06	BBA	30.9	<u>34.5</u>	2.3	2.3	33.2	<u>36.8</u>	46.0	12.8	<u>9.2</u>
12	528.07	BBA	-	<u>33.2</u>	3.5	3.5	-	<u>36.7</u>	46.0	-	<u>9.3</u>
13	764.40	BBA	24.3	<u>27.5</u>	8.6	8.6	32.9	<u>36.1</u>	46.0	13.1	<u>9.9</u>
14	816.11	BBA	<u>29.1</u>	27.3	9.6	9.6	<u>38.7</u>	36.9	46.0	<u>7.3</u>	9.1
15	864.11	BBA	26.5	<u>27.1</u>	10.6	10.6	37.1	<u>37.7</u>	46.0	8.9	<u>8.3</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

10.2.16 RX mode(146.000MHz :Band B) [1000 – 8000MHz]

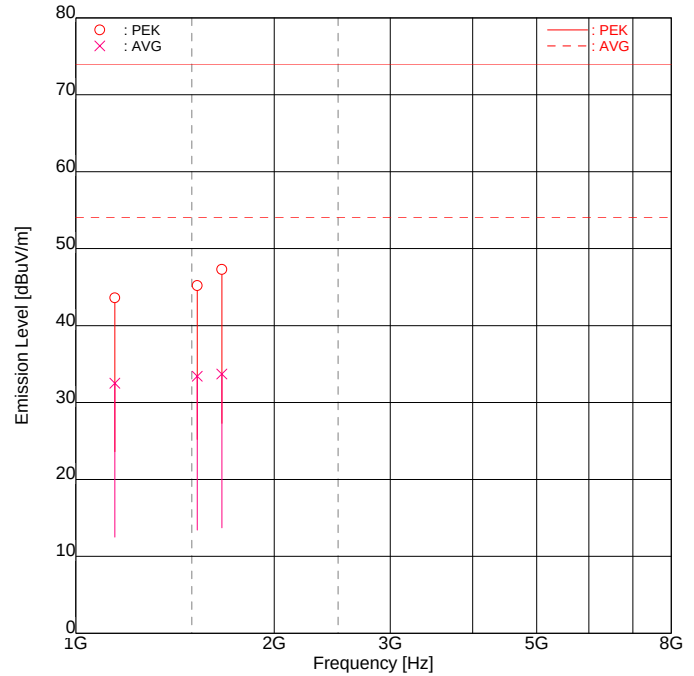
Intertek Japan K.K.

Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(146.000MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Sep 03 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 25.0 [degC]
HUMIDITY : 47.0 [%]
NOTE :

ENGINEER : Atsuyuki Morishima



FREQUENCY [No]	MODE	FREQ [MHz]	READING [dBuV]		FACTOR [dB]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	1146.29	PEK	<u>46.1</u>	46.0	-2.5	-2.5	<u>43.6</u>	43.5	74.0	<u>30.4</u>	30.5
2	1146.29	AVG	34.4	<u>35.0</u>	-2.5	-2.5	31.9	<u>32.5</u>	54.0	22.1	<u>21.5</u>
3	1528.42	PEK	<u>46.0</u>	44.3	-0.8	-0.8	<u>45.2</u>	43.5	74.0	<u>28.8</u>	30.5
4	1528.42	AVG	<u>34.2</u>	33.3	-0.8	-0.8	<u>33.4</u>	32.5	54.0	<u>20.6</u>	21.5
5	1665.47	PEK	45.4	<u>47.5</u>	-0.2	-0.2	45.2	<u>47.3</u>	74.0	28.8	<u>26.7</u>
6	1665.47	AVG	32.4	<u>33.9</u>	-0.2	-0.2	32.2	<u>33.7</u>	54.0	21.8	<u>20.3</u>

Higher six points are underlined.

Other frequencies : Below the FCC Part15B Class B limit

Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)

ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

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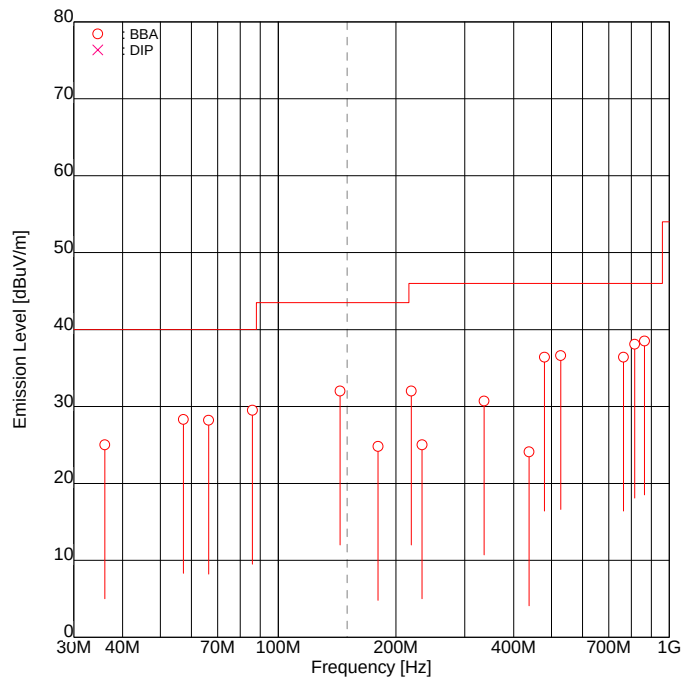
10.2.17 RX mode(173.995MHz :Band B) [30 – 1000MHz]

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Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(173.995MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Sep 02 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 25.0 [degC]
HUMIDITY : 46.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	ANT.	READING [dBuV]		FACTOR [dB/m]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	36.03	BBA	-	31.9	-6.9	-6.9	-	25.0	40.0	-	15.0
2	57.27	BBA	-	33.8	-5.5	-5.5	-	28.3	40.0	-	11.7
3	66.42	BBA	34.6	-	-6.4	-6.4	28.2	-	40.0	11.8	-
4	85.90	BBA	36.9	<u>39.6</u>	-10.1	-10.1	26.8	<u>29.5</u>	40.0	13.2	<u>10.5</u>
5	144.01	BBA	36.4	35.1	-4.4	-4.4	32.0	30.7	43.5	11.5	12.8
6	179.99	BBA	-	30.0	-5.2	-5.2	-	24.8	43.5	-	18.7
7	219.04	BBA	37.4	37.3	-5.4	-5.4	32.0	31.9	46.0	14.0	14.1
8	233.32	BBA	25.8	29.8	-4.8	-4.8	21.0	25.0	46.0	25.0	21.0
9	336.04	BBA	31.8	-	-1.1	-1.1	30.7	-	46.0	15.3	-
10	438.09	BBA	22.5	23.0	1.1	1.1	23.6	24.1	46.0	22.4	21.9
11	480.06	BBA	32.4	<u>34.1</u>	2.3	2.3	34.7	<u>36.4</u>	46.0	11.3	<u>9.6</u>
12	528.07	BBA	-	<u>33.1</u>	3.5	3.5	-	<u>36.6</u>	46.0	-	<u>9.4</u>
13	764.30	BBA	23.4	<u>27.8</u>	8.6	8.6	32.0	<u>36.4</u>	46.0	14.0	<u>9.6</u>
14	816.11	BBA	27.4	<u>28.5</u>	9.6	9.6	37.0	<u>38.1</u>	46.0	9.0	<u>7.9</u>
15	864.11	BBA	27.2	<u>27.9</u>	10.6	10.6	37.8	<u>38.5</u>	46.0	8.2	<u>7.5</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

10.2.18 RX mode(173.995MHz :Band B) [1000 – 8000MHz]

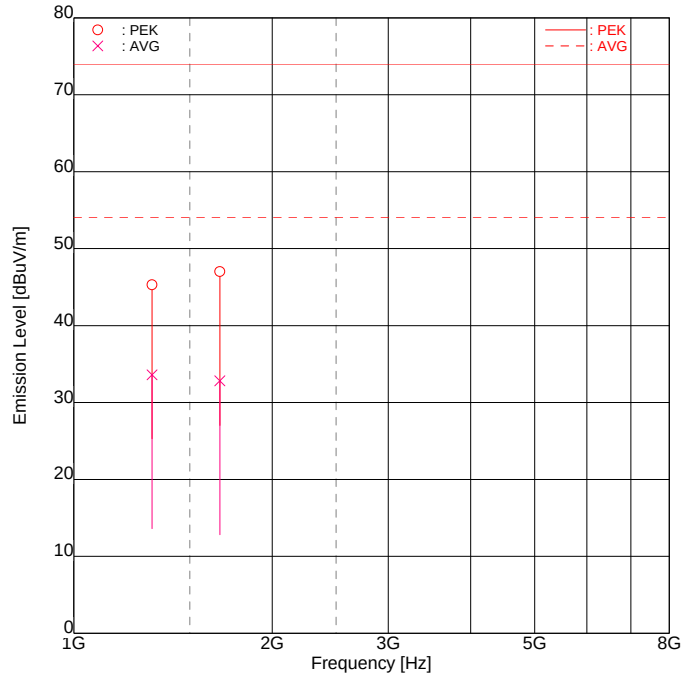
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Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(173.995MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Sep 03 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 25.0 [degC]
HUMIDITY : 47.0 [%]
NOTE :

ENGINEER : Atsuyuki Morishima



FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	1314.33	PEK	46.1	<u>47.1</u>	-1.8	-1.8	44.3	<u>45.3</u>	74.0	29.7	<u>28.7</u>
2	1314.33	AVG	34.1	<u>35.4</u>	-1.8	-1.8	32.3	<u>33.6</u>	54.0	21.7	<u>20.4</u>
3	1665.80	PEK	46.0	<u>47.2</u>	-0.2	-0.2	45.8	<u>47.0</u>	74.0	28.2	<u>27.0</u>
4	1665.80	AVG	32.6	<u>33.0</u>	-0.2	-0.2	32.4	<u>32.8</u>	54.0	21.6	<u>21.2</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

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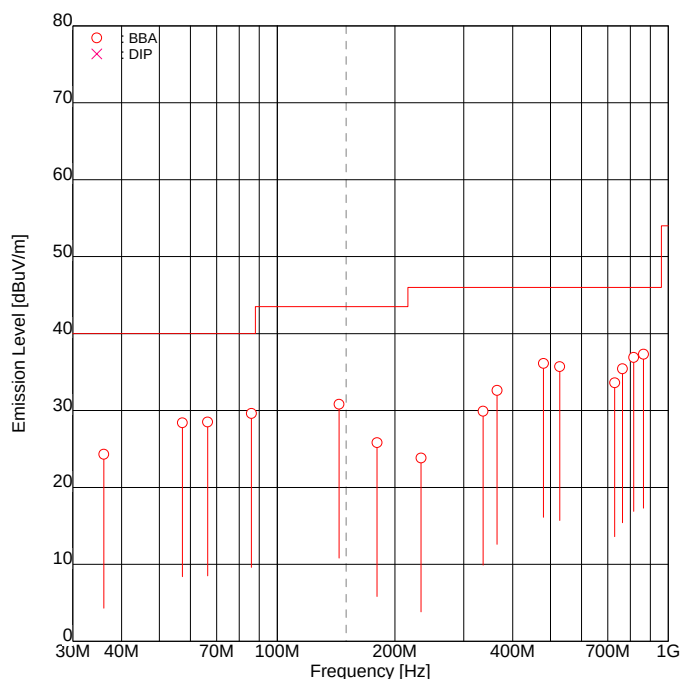
10.2.19 RX mode(320.000MHz :Band B) [30 – 1000MHz]

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Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(320.000MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Sep 03 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 26.0 [degC]
HUMIDITY : 46.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	ANT.	READING [dBuV]		FACTOR [dB/m]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	36.03	BBA	-	31.2	-6.9	-6.9	-	24.3	40.0	-	15.7
2	57.27	BBA	-	33.9	-5.5	-5.5	-	28.4	40.0	-	11.6
3	66.42	BBA	34.9	-	-6.4	-6.4	28.5	-	40.0	11.5	-
4	85.90	BBA	35.6	<u>39.7</u>	-10.1	-10.1	25.5	<u>29.6</u>	40.0	14.5	<u>10.4</u>
5	144.01	BBA	35.2	34.4	-4.4	-4.4	30.8	30.0	43.5	12.7	13.5
6	179.99	BBA	-	31.0	-5.2	-5.2	-	25.8	43.5	-	17.7
7	233.32	BBA	27.8	28.6	-4.8	-4.8	23.0	23.8	46.0	23.0	22.2
8	336.04	BBA	31.0	-	-1.1	-1.1	29.9	-	46.0	16.1	-
9	365.05	BBA	30.2	33.1	-0.5	-0.5	29.7	32.6	46.0	16.3	13.4
10	480.06	BBA	32.1	<u>33.8</u>	2.3	2.3	34.4	<u>36.1</u>	46.0	11.6	<u>9.9</u>
11	528.07	BBA	-	<u>32.2</u>	3.5	3.5	-	<u>35.7</u>	46.0	-	<u>10.3</u>
12	730.10	BBA	23.1	25.7	7.9	7.9	31.0	33.6	46.0	15.0	12.4
13	764.42	BBA	23.9	<u>26.8</u>	8.6	8.6	32.5	<u>35.4</u>	46.0	13.5	<u>10.6</u>
14	816.11	BBA	26.5	<u>27.3</u>	9.6	9.6	36.1	<u>36.9</u>	46.0	9.9	<u>9.1</u>
15	864.11	BBA	25.8	<u>26.7</u>	10.6	10.6	36.4	<u>37.3</u>	46.0	9.6	<u>8.7</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

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10.2.20 RX mode(320.000MHz :Band B) [1000 – 8000MHz]

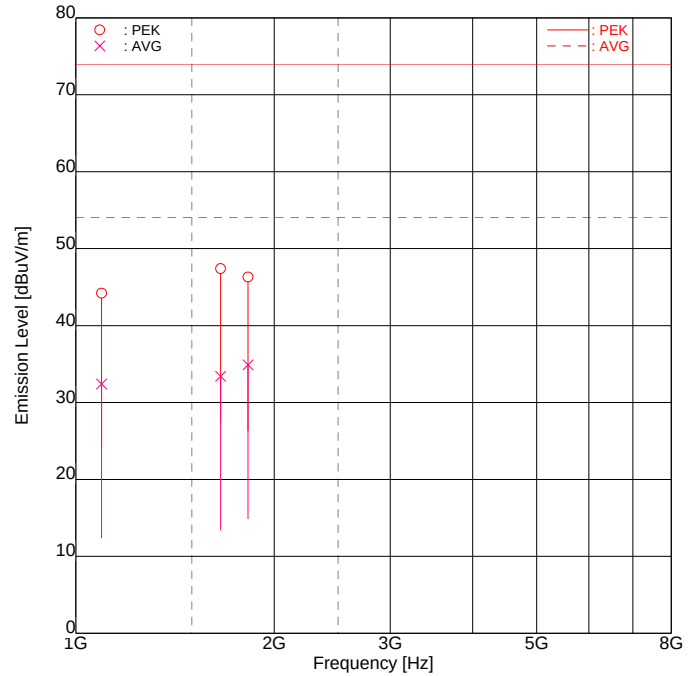
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Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(320.000MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Sep 03 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 25.0 [degC]
HUMIDITY : 47.0 [%]
NOTE :

ENGINEER : Atsuyuki Morishima



FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	1094.82	PEK	<u>47.0</u>	45.8	-2.8	-2.8	<u>44.2</u>	43.0	74.0	<u>29.8</u>	31.0
2	1094.82	AVG	<u>35.2</u>	34.1	-2.8	-2.8	<u>32.4</u>	31.3	54.0	<u>21.6</u>	22.7
3	1658.80	PEK	45.9	<u>47.6</u>	-0.2	-0.2	45.7	<u>47.4</u>	74.0	28.3	<u>26.6</u>
4	1658.80	AVG	32.5	<u>33.6</u>	-0.2	-0.2	32.3	<u>33.4</u>	54.0	21.7	<u>20.6</u>
5	1825.33	PEK	<u>45.6</u>	44.8	0.7	0.7	<u>46.3</u>	45.5	74.0	<u>27.7</u>	28.5
6	1825.33	AVG	<u>34.2</u>	33.1	0.7	0.7	<u>34.9</u>	33.8	54.0	<u>19.1</u>	20.2

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

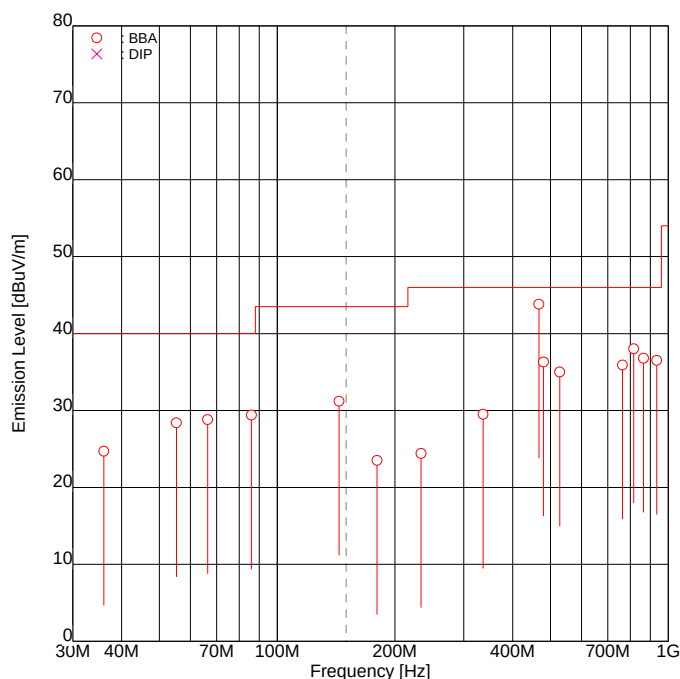
10.2.21 RX mode(422.000MHz :Band B) [30 – 1000MHz]

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Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(422.000MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Sep 03 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 27.0 [degC]
HUMIDITY : 46.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQ [MHz]	ANT.	READING [dBuV]		FACTOR [dB/m]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	36.03	BBA	-	31.6	-6.9	-6.9	-	24.7	40.0	-	15.3
2	55.28	BBA	-	33.8	-5.4	-5.4	-	28.4	40.0	-	11.6
3	66.42	BBA	35.2	-	-6.4	-6.4	28.8	-	40.0	11.2	-
4	85.90	BBA	36.1	39.5	-10.1	-10.1	26.0	29.4	40.0	14.0	10.6
5	144.01	BBA	35.6	35.5	-4.4	-4.4	31.2	31.1	43.5	12.3	12.4
6	179.99	BBA	-	28.7	-5.2	-5.2	-	23.5	43.5	-	20.0
7	233.32	BBA	26.8	29.2	-4.8	-4.8	22.0	24.4	46.0	24.0	21.6
8	336.04	BBA	30.6	-	-1.1	-1.1	29.5	-	46.0	16.5	-
9	467.05	BBA	<u>42.0</u>	37.4	1.8	1.8	<u>43.8</u>	39.2	46.0	<u>2.2</u>	6.8
10	480.06	BBA	<u>31.3</u>	<u>34.0</u>	2.3	2.3	<u>33.6</u>	<u>36.3</u>	46.0	12.4	<u>9.7</u>
11	528.07	BBA	-	31.5	3.5	3.5	-	35.0	46.0	-	11.0
12	764.44	BBA	24.6	<u>27.3</u>	8.6	8.6	33.2	<u>35.9</u>	46.0	12.8	<u>10.1</u>
13	816.11	BBA	<u>28.4</u>	27.2	9.6	9.6	<u>38.0</u>	36.8	46.0	<u>8.0</u>	9.2
14	864.11	BBA	26.0	<u>26.2</u>	10.6	10.6	36.6	<u>36.8</u>	46.0	9.4	<u>9.2</u>
15	934.10	BBA	23.3	<u>24.5</u>	12.0	12.0	35.3	<u>36.5</u>	46.0	10.7	<u>9.5</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

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10.2.22 RX mode(422.000MHz :Band B) [1000 – 8000MHz]

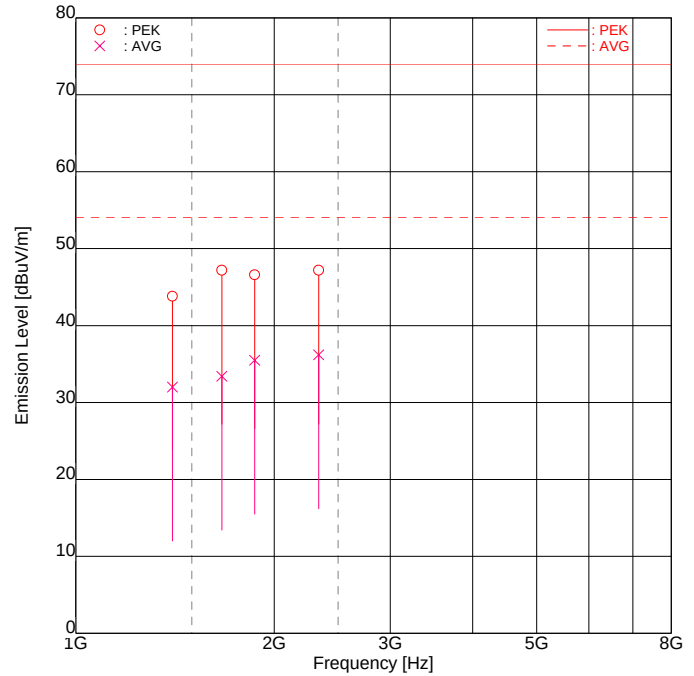
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Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(422.000MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Sep 03 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 25.0 [degC]
HUMIDITY : 47.0 [%]
NOTE :

ENGINEER : Atsuyuki Morishima



FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	1401.37	PEK	45.2	45.2	-1.4	-1.4	43.8	43.8	74.0	30.2	30.2
2	1401.37	AVG	32.9	<u>33.4</u>	-1.4	-1.4	31.5	<u>32.0</u>	54.0	22.5	<u>22.0</u>
3	1665.37	PEK	46.2	<u>47.4</u>	-0.2	-0.2	46.0	<u>47.2</u>	74.0	28.0	<u>26.8</u>
4	1665.37	AVG	32.5	<u>33.6</u>	-0.2	-0.2	32.3	<u>33.4</u>	54.0	21.7	<u>20.6</u>
5	1867.96	PEK	45.7	45.2	0.9	0.9	46.6	46.1	74.0	27.4	27.9
6	1867.96	AVG	<u>34.6</u>	33.0	0.9	0.9	<u>35.5</u>	33.9	54.0	<u>18.5</u>	20.1
7	2335.39	PEK	44.3	<u>44.6</u>	2.6	2.6	46.9	<u>47.2</u>	74.0	27.1	<u>26.8</u>
8	2335.39	AVG	32.4	<u>33.6</u>	2.6	2.6	35.0	<u>36.2</u>	54.0	19.0	<u>17.8</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

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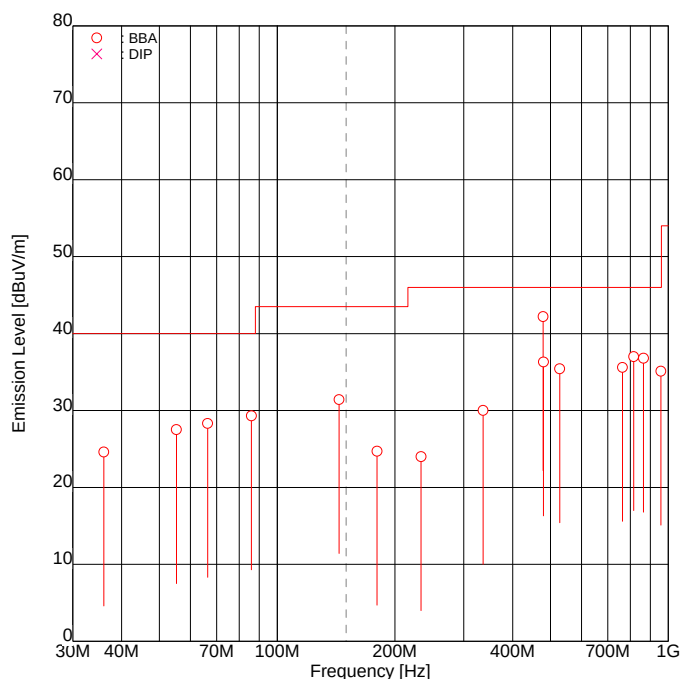
10.2.23 RX mode(523.995MHz :Band B) [30 – 1000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(523.995MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Sep 03 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 27.0 [degC]
HUMIDITY : 46.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

[No]	FREQUENCY [MHz]	ANT.	READING [dBuV]		FACTOR [dB/m]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	36.03	BBA	-	31.5	-6.9	-6.9	-	24.6	40.0	-	15.4
2	55.28	BBA	-	32.9	-5.4	-5.4	-	27.5	40.0	-	12.5
3	66.42	BBA	34.7	-	-6.4	-6.4	28.3	-	40.0	11.7	-
4	85.90	BBA	36.4	39.4	-10.1	-10.1	26.3	29.3	40.0	13.7	10.7
5	144.01	BBA	35.8	34.8	-4.4	-4.4	31.4	30.4	43.5	12.1	13.1
6	179.99	BBA	-	29.9	-5.2	-5.2	-	24.7	43.5	-	18.8
7	233.32	BBA	27.6	28.8	-4.8	-4.8	22.8	24.0	46.0	23.2	22.0
8	336.04	BBA	31.1	-	-1.1	-1.1	30.0	-	46.0	16.0	-
9	478.94	BBA	<u>40.0</u>	39.5	2.2	2.2	<u>42.2</u>	41.7	46.0	<u>3.8</u>	4.3
10	480.06	BBA	<u>31.1</u>	<u>34.0</u>	2.3	2.3	<u>33.4</u>	<u>36.3</u>	46.0	12.6	<u>9.7</u>
11	528.07	BBA	-	<u>31.9</u>	3.5	3.5	-	<u>35.4</u>	46.0	-	<u>10.6</u>
12	764.45	BBA	23.9	<u>27.0</u>	8.6	8.6	32.5	<u>35.6</u>	46.0	13.5	<u>10.4</u>
13	816.11	BBA	<u>27.4</u>	26.0	9.6	9.6	<u>37.0</u>	35.6	46.0	<u>9.0</u>	10.4
14	864.11	BBA	25.8	<u>26.2</u>	10.6	10.6	36.4	<u>36.8</u>	46.0	9.6	<u>9.2</u>
15	957.89	BBA	21.7	22.7	12.4	12.4	34.1	35.1	46.0	11.9	10.9

Higher six points are underlined.
Other frequencies : Below the FCC Part15B Class B limit
Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)
ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

10.2.24 RX mode(523.995MHz :Band B) [1000 – 8000MHz]

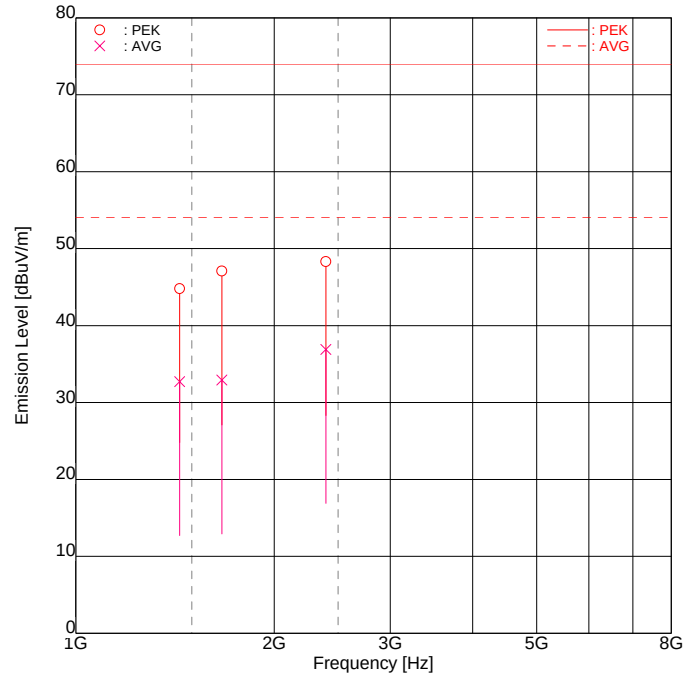
Intertek Japan K.K.

Tochigi No.1 Test Site

Radiated Electric Field

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(523.995MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Sep 03 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B Class B
TEST METHOD : ANSI C63.4-2003
DISTANCE : 3.00 [m]
TEMPERATURE : 24.0 [degC]
HUMIDITY : 47.0 [%]
NOTE :

ENGINEER : Atsuyuki Morishima



FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	1436.97	PEK	44.7	<u>46.1</u>	-1.3	-1.3	43.4	<u>44.8</u>	74.0	30.6	<u>29.2</u>
2	1436.97	AVG	33.3	<u>34.0</u>	-1.3	-1.3	32.0	<u>32.7</u>	54.0	22.0	<u>21.3</u>
3	1665.90	PEK	46.3	<u>47.3</u>	-0.2	-0.2	46.1	<u>47.1</u>	74.0	27.9	<u>26.9</u>
4	1665.90	AVG	32.5	<u>33.1</u>	-0.2	-0.2	32.3	<u>32.9</u>	54.0	21.7	<u>21.1</u>
5	2394.79	PEK	44.5	<u>45.6</u>	2.7	2.7	47.2	<u>48.3</u>	74.0	26.8	<u>25.7</u>
6	2394.79	AVG	32.7	<u>34.2</u>	2.7	2.7	35.4	<u>36.9</u>	54.0	18.6	<u>17.1</u>

Higher six points are underlined.

Other frequencies : Below the FCC Part15B Class B limit

Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)

ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

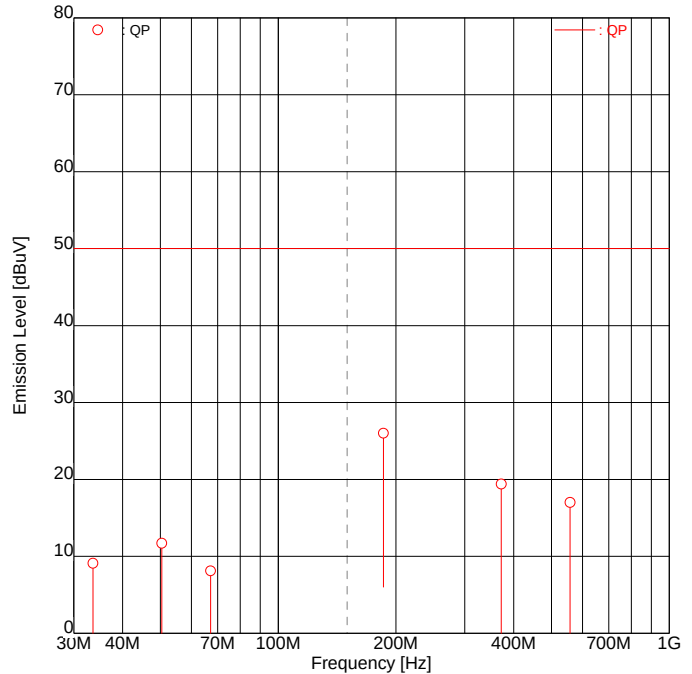
10.3 Conducted Power on Antenna Port (15.111)
10.3.1 RX mode(136.000MHz :Band A) [30 – 1000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(136.000MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 26 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 46.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	33.6000	<u>25.5</u>	-16.4	<u>9.1</u>	50.0	<u>40.9</u>
2	50.3990	<u>27.8</u>	-16.1	<u>11.7</u>	50.0	<u>38.3</u>
3	67.1980	<u>23.9</u>	-15.8	<u>8.1</u>	50.0	<u>41.9</u>
4	185.9480	<u>40.2</u>	-14.2	<u>26.0</u>	50.0	<u>24.0</u>
5	371.8980	<u>32.5</u>	-13.1	<u>19.4</u>	50.0	<u>30.6</u>
6	557.8470	<u>30.0</u>	-13.0	<u>17.0</u>	50.0	<u>33.0</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B (15.111) limit
Emission Level = Read + Factor(Pad,Cable,Preamp)
Limit: 2nW = 50dBuV(50ohm impedance)

emiT 3, 0, 0, 0

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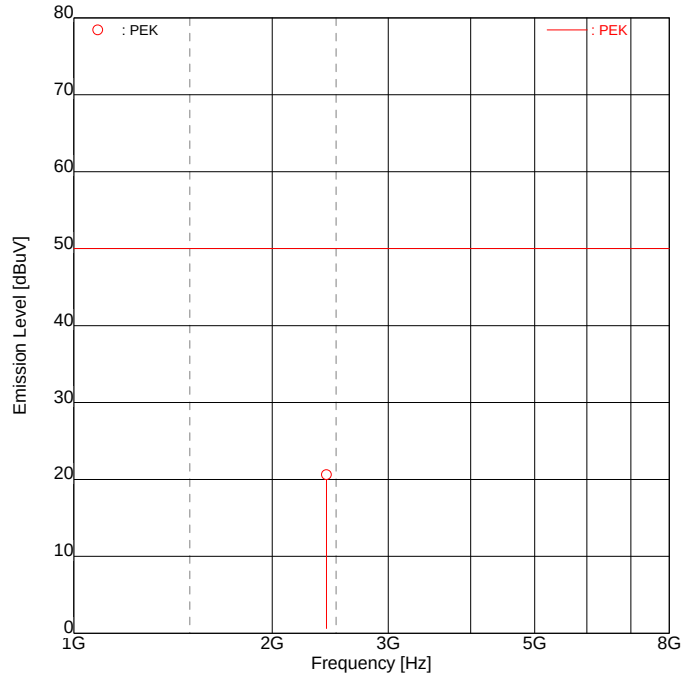
10.3.2 RX mode(136.000MHz :Band A) [1000 – 8000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(136.000MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 27 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 45.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	2417.4170	<u>49.3</u>	-28.7	<u>20.6</u>	50.0	<u>29.4</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B (15.111) limit
Emission Level = Read + Factor(Pad,Cable,Preamp)
Limit: 2nW = 50dBuV(50ohm impedance)

emiT 3, 0, 0, 0

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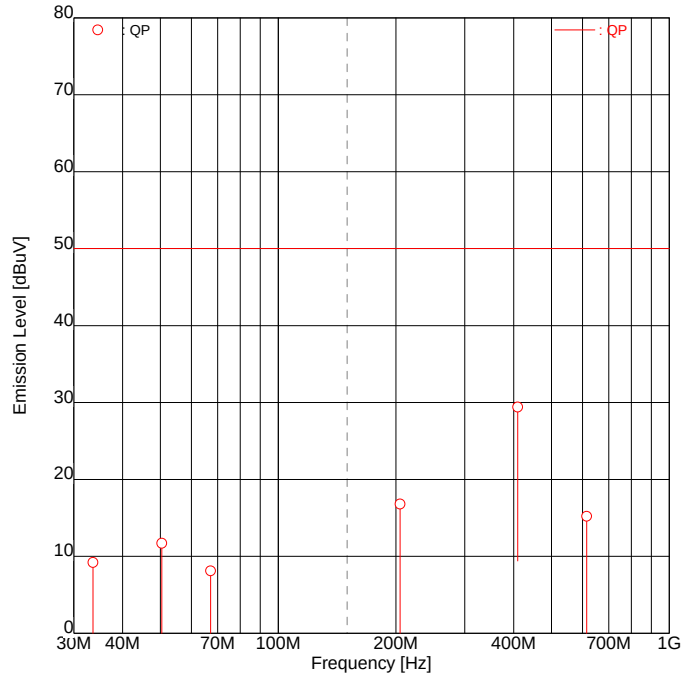
10.3.3 RX mode(155.000MHz :Band A) [30 – 1000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
 EUT NAME : 144/430MHz FM DUAL BANDER
 MODEL NO. : TH-D72A
 SERIAL NO. : None
 TEST MODE : Rx mode(155.000MHz:Band A)
 POWER SOURCE : DC 13.8V
 DATE TESTED : Aug 26 2010
 FILE NO. : JT10080007
 REGULATION : FCC Part15B (15.111)
 TEST METHOD : ANSI C63.4-2003
 TEMPERATURE : 26.0 [degC]
 HUMIDITY : 46.0 [%]
 NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	33.6000	<u>25.6</u>	-16.4	<u>9.2</u>	50.0	<u>40.8</u>
2	50.3990	<u>27.8</u>	-16.1	<u>11.7</u>	50.0	<u>38.3</u>
3	67.1980	<u>23.9</u>	-15.8	<u>8.1</u>	50.0	<u>41.9</u>
4	204.9490	<u>30.8</u>	-14.0	<u>16.8</u>	50.0	<u>33.2</u>
5	409.8980	<u>42.6</u>	-13.2	<u>29.4</u>	50.0	<u>20.6</u>
6	614.8470	<u>28.0</u>	-12.8	<u>15.2</u>	50.0	<u>34.8</u>

Higher six points are underlined.

Other frequencies : Below the FCC Part15B (15.111) limit

Emission Level = Read + Factor(Pad,Cable,Preamp)

Limit: 2nW = 50dBuV(50ohm impedance)

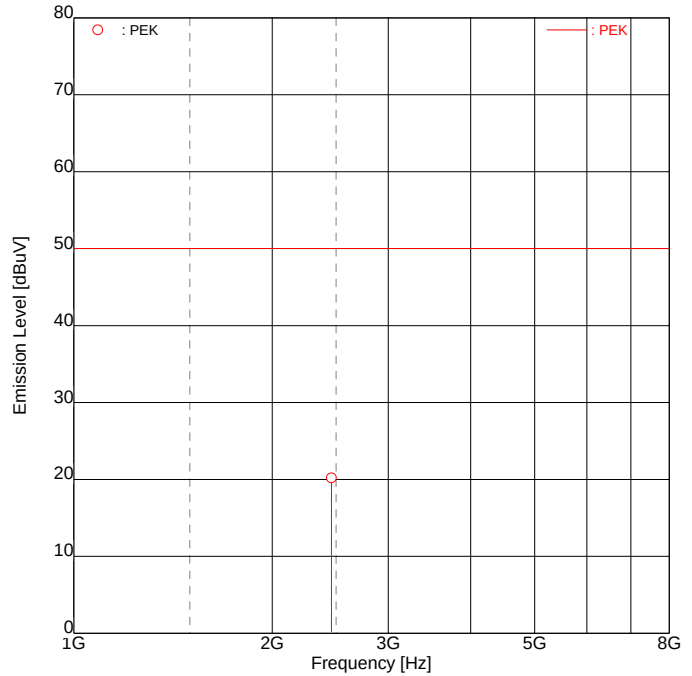
10.3.4 RX mode(155.000MHz :Band A) [1000 – 8000MHz]

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Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(155.000MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 27 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 45.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	2459.3823	<u>48.9</u>	-28.7	<u>20.2</u>	50.0	<u>29.8</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B (15.111) limit
Emission Level = Read + Factor(Pad,Cable,Preamp)
Limit: 2nW = 50dBuV(50ohm impedance)

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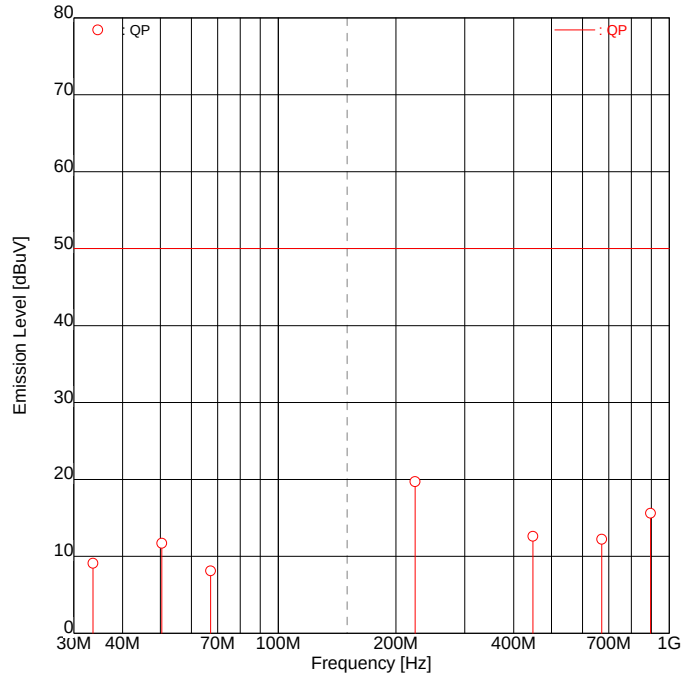
10.3.5 RX mode(173.995MHz :Band A) [30 – 1000MHz]

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Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(173.995MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 26 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 46.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	33.6000	<u>25.5</u>	-16.4	<u>9.1</u>	50.0	<u>40.9</u>
2	50.3990	<u>27.8</u>	-16.1	<u>11.7</u>	50.0	<u>38.3</u>
3	67.1980	<u>23.9</u>	-15.8	<u>8.1</u>	50.0	<u>41.9</u>
4	223.9440	<u>33.5</u>	-13.8	<u>19.7</u>	50.0	<u>30.3</u>
5	447.8880	<u>25.9</u>	-13.3	<u>12.6</u>	50.0	<u>37.4</u>
6	671.8320	<u>24.8</u>	-12.6	<u>12.2</u>	50.0	<u>37.8</u>
7	895.7760	<u>26.7</u>	-11.1	<u>15.6</u>	50.0	<u>34.4</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B (15.111) limit
Emission Level = Read + Factor(Pad,Cable,Preamp)
Limit: 2nW = 50dBuV(50ohm impedance)

emiT 3, 0, 0, 0

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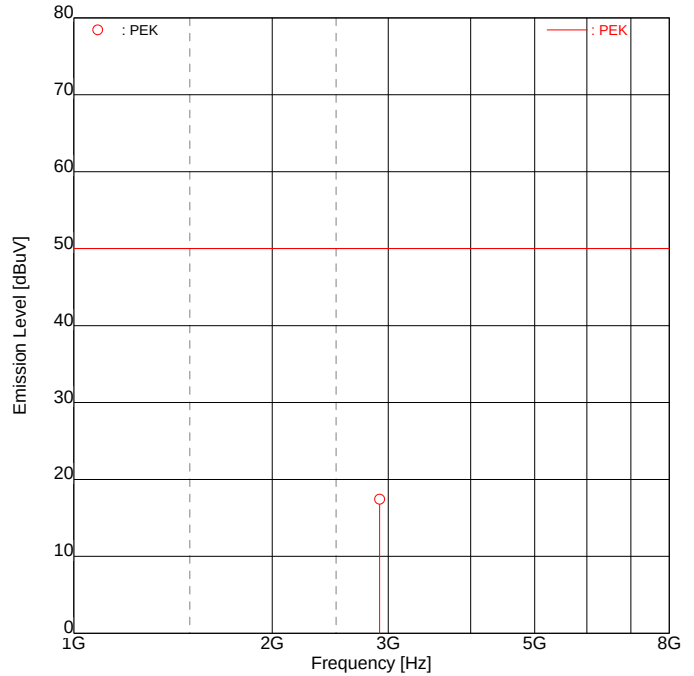
10.3.6 RX mode(173.995MHz :Band A) [1000 – 8000MHz]

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Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(.173.995MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 27 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 46.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	2911.2667	<u>45.8</u>	-28.4	<u>17.4</u>	50.0	<u>32.6</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B (15.111) limit
Emission Level = Read + Factor(Pad,Cable,Preamp)
Limit: 2nW = 50dBuV(50ohm impedance)

emiT 3, 0, 0, 0

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10.3.7 VFO SCAN mode(136 – 174MHz:Band A) [30 – 1000MHz]

< Graph number #13 >

SPECTRUM ANALYSIS

Tochigi No.1 Test Site

26.0degC /47.0%

Date tested : Aug 26 2010

Test mode : VFO SCAN
mode(136-174MHz:Band A)

Company : Kenwood Corporation

Power source : DC 13.8V

EUT Name : 144/430MHz FM DUAL

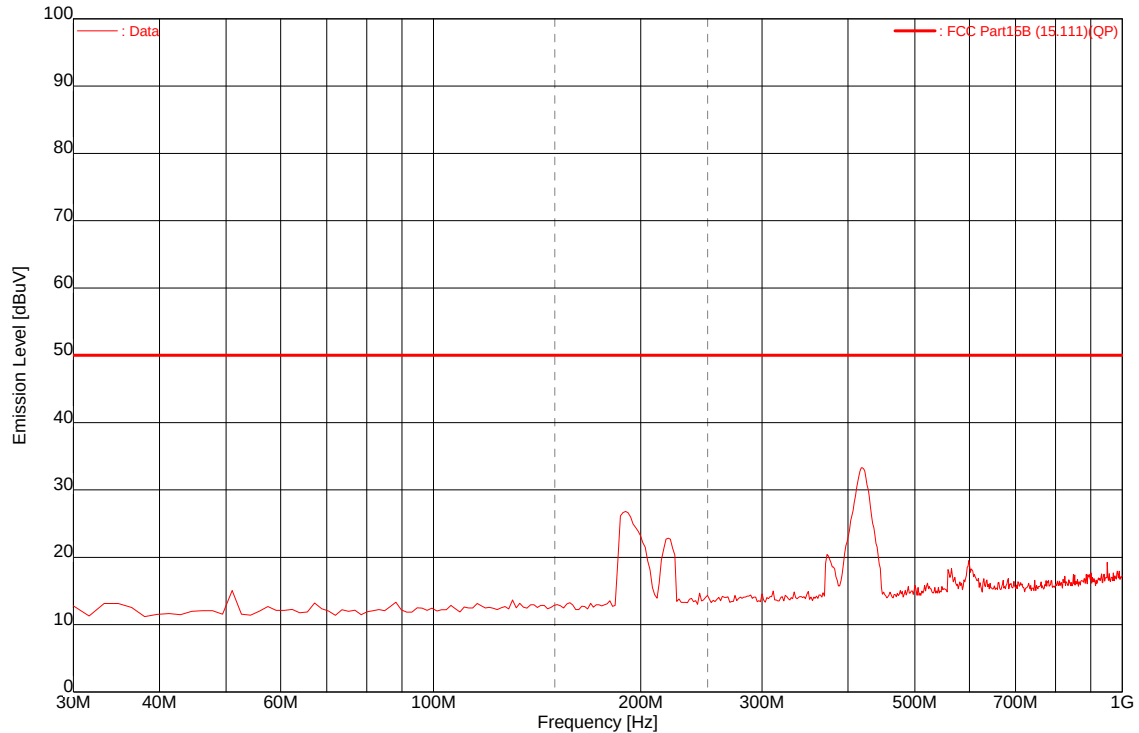
File number : JT10080007

Model number : TH-D72A

Engineer : Atsuyuki Morishima

Serial number : None

Note :



Frequency [MHz]	Reading [dBuV]	Factor [dB]	Emission [dBuV]	Limit [dBuV]	Margin [dB]
33.60	<u>25.8</u>	-16.4	<u>9.4</u>	50.0	<u>40.6</u>
50.40	<u>28.0</u>	-16.1	<u>11.9</u>	50.0	<u>38.1</u>
67.20	23.9	-15.8	8.1	50.0	41.9
189.15	<u>41.0</u>	-14.2	<u>26.8</u>	50.0	<u>23.2</u>
217.75	<u>36.0</u>	-13.8	<u>22.2</u>	50.0	<u>27.8</u>
374.37	<u>33.3</u>	-13.1	<u>20.2</u>	50.0	<u>29.8</u>
419.41	<u>47.0</u>	-13.2	<u>33.8</u>	50.0	<u>16.2</u>

Higher six points are underlined.

Other frequencies : Below the FCC Part15B (15.111) limit

Emission Level = Read + Factor (Pad, Cable, Preamp)

Limit : 2nW = 50dBuV (50ohm impedance)

10.3.8 VFO SCAN mode(136 – 174MHz:Band A) [1000 – 8000MHz]

< Graph number #29 >

SPECTRUM ANALYSIS

Tochigi No.1 Test Site

26.0degC /46.0%

Date tested : Aug 27 2010

Test mode : VFO SCAN
mode(136-174MHz:Band A)

Company : Kenwood Corporation

Power source : DC 13.8V

EUT Name : 144/430MHz FM DUAL

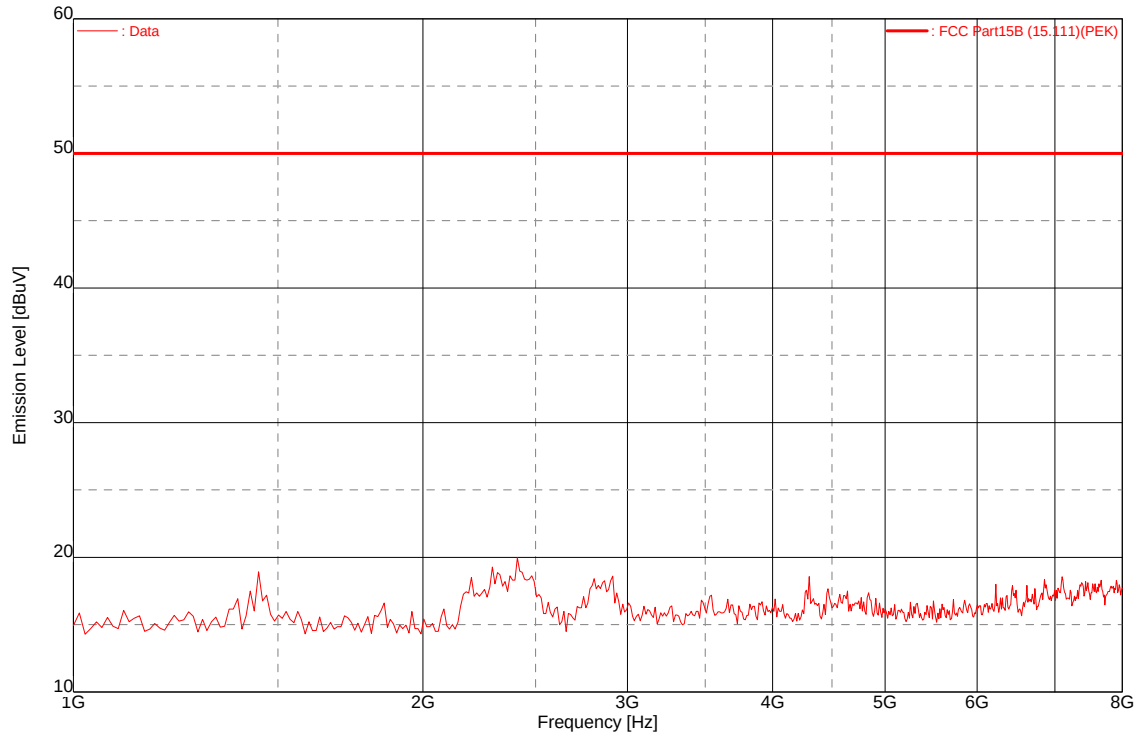
File number : JT10080007

Model number : TH-D72A

Engineer : Atsuyuki Morishima

Serial number : None

Note :



Frequency [MHz]	Reading [dBuV]	Factor [dB]	Emission [dBuV]	Limit [dBuV]	Margin [dB]
2326.38	<u>49.8</u>	-28.8	<u>21.0</u>	50.0	<u>29.0</u>

Higher six points are underlined.

Other frequencies : Below the FCC Part15B (15.111) limit

Emission Level = Read + Factor (Pad, Cable, Preamp)

Limit : 2nW = 50dBuV (50ohm impedance)

Note : There is the margin of 20dB over expect for the above points.

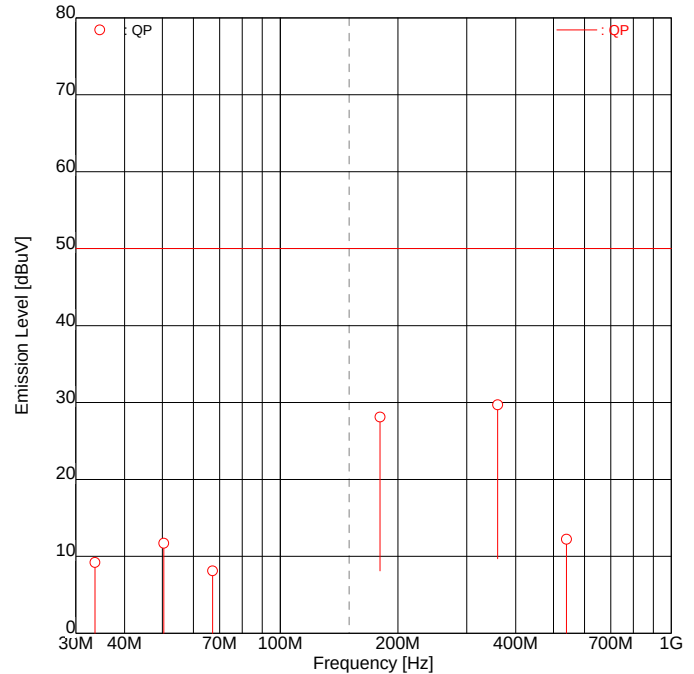
10.3.9 RX mode(410.000MHz :Band A) [30 – 1000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(410.000MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 26 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 46.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	33.6000	<u>25.6</u>	-16.4	<u>9.2</u>	50.0	<u>40.8</u>
2	50.3990	<u>27.8</u>	-16.1	<u>11.7</u>	50.0	<u>38.3</u>
3	67.1980	<u>23.9</u>	-15.8	<u>8.1</u>	50.0	<u>41.9</u>
4	180.0250	<u>42.4</u>	-14.3	<u>28.1</u>	50.0	<u>21.9</u>
5	360.0480	<u>42.8</u>	-13.1	<u>29.7</u>	50.0	<u>20.3</u>
6	540.0710	<u>25.2</u>	-13.0	<u>12.2</u>	50.0	<u>37.8</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B (15.111) limit
Emission Level = Read + Factor(Pad,Cable,Preamp)
Limit: 2nW = 50dBuV(50ohm impedance)

emiT 3, 0, 0, 0

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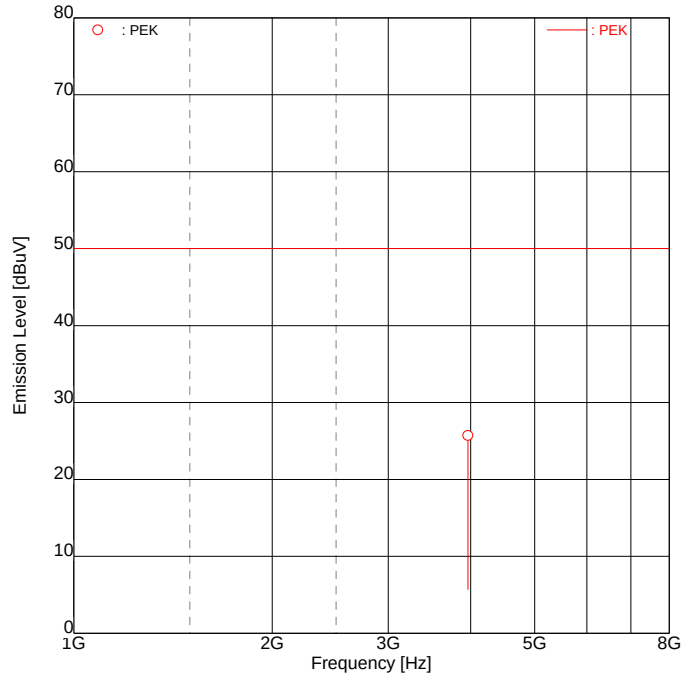
10.3.10 RX mode(410.000MHz :Band A) [1000 – 8000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(.410.000MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 27 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 46.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	3960.5700	<u>52.9</u>	-27.2	<u>25.7</u>	50.0	<u>24.3</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B (15.111) limit
Emission Level = Read + Factor(Pad,Cable,Preamp)
Limit: 2nW = 50dBuV(50ohm impedance)

emiT 3, 0, 0, 0

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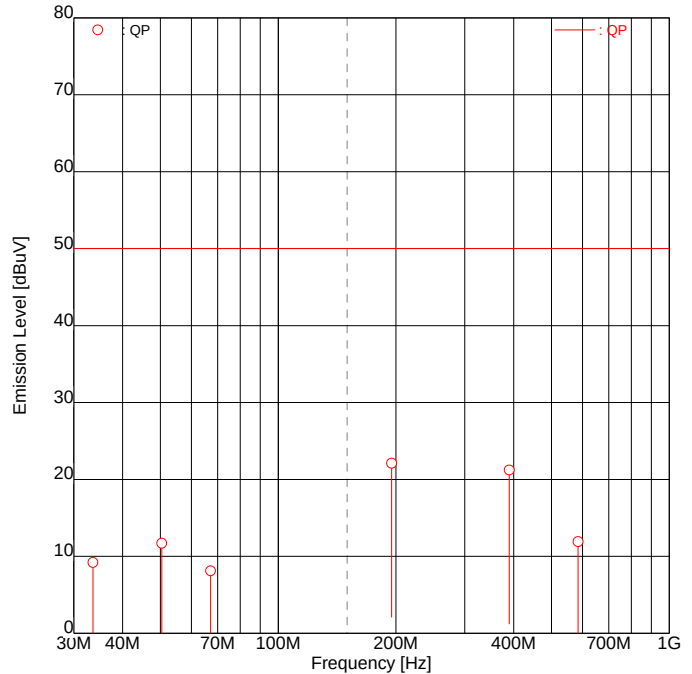
10.3.11 RX mode(440.000MHz :Band A) [30 – 1000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(440.000MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 26 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 47.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	33.6000	<u>25.6</u>	-16.4	<u>9.2</u>	50.0	<u>40.8</u>
2	50.3990	<u>27.8</u>	-16.1	<u>11.7</u>	50.0	<u>38.3</u>
3	67.1980	<u>23.9</u>	-15.8	<u>8.1</u>	50.0	<u>41.9</u>
4	195.0240	<u>36.2</u>	-14.1	<u>22.1</u>	50.0	<u>27.9</u>
5	390.0490	<u>34.3</u>	-13.1	<u>21.2</u>	50.0	<u>28.8</u>
6	585.0710	<u>24.9</u>	-13.0	<u>11.9</u>	50.0	<u>38.1</u>

Higher six points are underlined.

Other frequencies : Below the FCC Part15B (15.111) limit

Emission Level = Read + Factor(Pad,Cable,Preamp)

Limit: 2nW = 50dBuV(50ohm impedance)

emiT 3, 0, 0, 0

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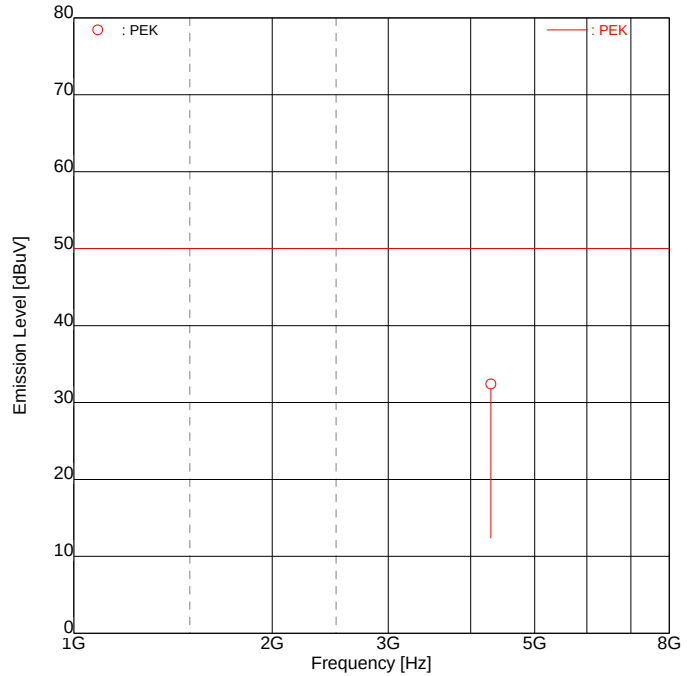
10.3.12 RX mode(440.000MHz :Band A) [1000 – 8000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(.440.000MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 27 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 46.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	4290.5000	<u>59.5</u>	-27.1	<u>32.4</u>	50.0	<u>17.6</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B (15.111) limit
Emission Level = Read + Factor(Pad,Cable,Preamp)
Limit: 2nW = 50dBuV(50ohm impedance)

emiT 3, 0, 0, 0

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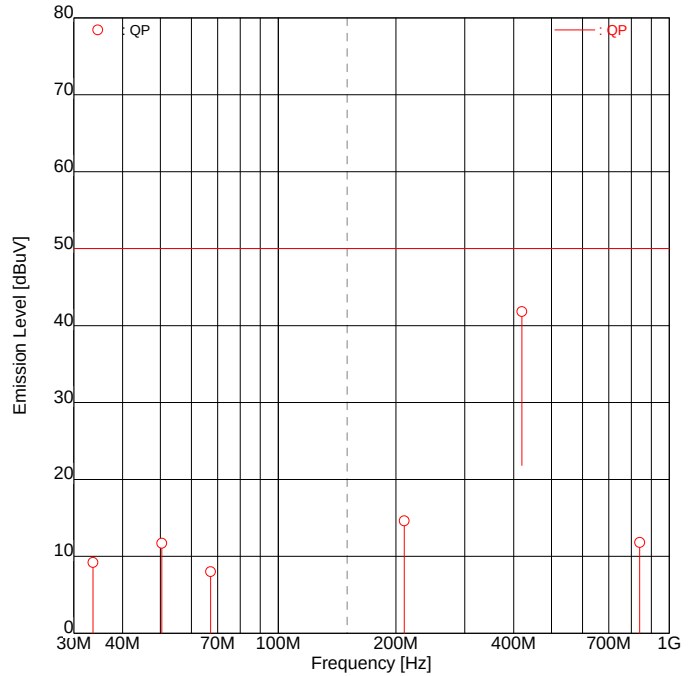
10.3.13 RX mode(469.995MHz :Band A) [30 – 1000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(469.995MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 26 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 47.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	33.6000	<u>25.6</u>	-16.4	<u>9.2</u>	50.0	<u>40.8</u>
2	50.3990	<u>27.8</u>	-16.1	<u>11.7</u>	50.0	<u>38.3</u>
3	67.1980	<u>23.8</u>	-15.8	<u>8.0</u>	50.0	<u>42.0</u>
4	210.0220	<u>28.5</u>	-13.9	<u>14.6</u>	50.0	<u>35.4</u>
5	420.0420	<u>55.0</u>	-13.2	<u>41.8</u>	50.0	<u>8.2</u>
6	840.0850	<u>23.2</u>	-11.4	<u>11.8</u>	50.0	<u>38.2</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B (15.111) limit
Emission Level = Read + Factor(Pad,Cable,Preamp)
Limit: 2nW = 50dBuV(50ohm impedance)

emiT 3, 0, 0, 0

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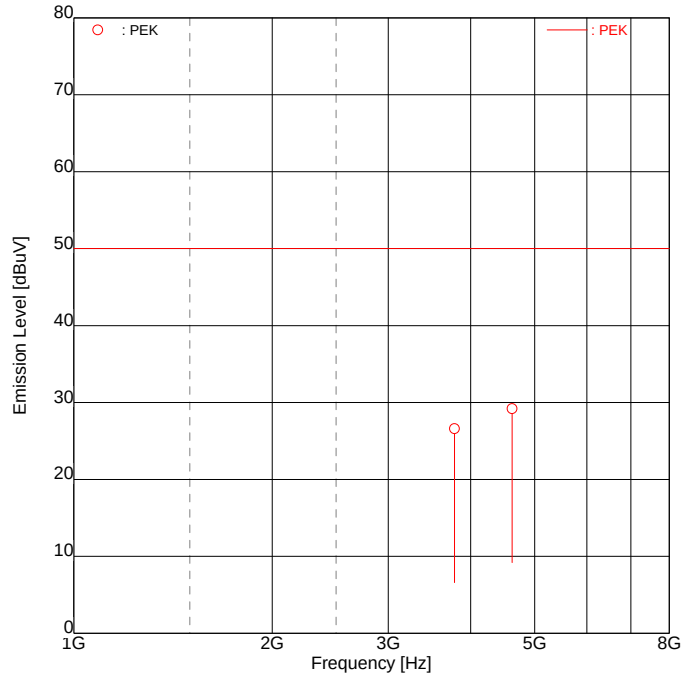
10.3.14 RX mode(469.995MHz :Band A) [1000 – 8000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(.469.995MHz:Band A)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 27 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 46.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	3780.3000	<u>54.1</u>	-27.5	<u>26.6</u>	50.0	<u>23.4</u>
2	4620.3800	<u>56.2</u>	-27.0	<u>29.2</u>	50.0	<u>20.8</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B (15.111) limit
Emission Level = Read + Factor(Pad,Cable,Preamp)
Limit: 2nW = 50dBuV(50ohm impedance)

emiT 3, 0, 0, 0

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10.3.15 VFO SCAN mode(410 – 470MHz:Band A) [30 – 1000MHz]

< Graph number #14 >

SPECTRUM ANALYSIS

Tochigi No.1 Test Site

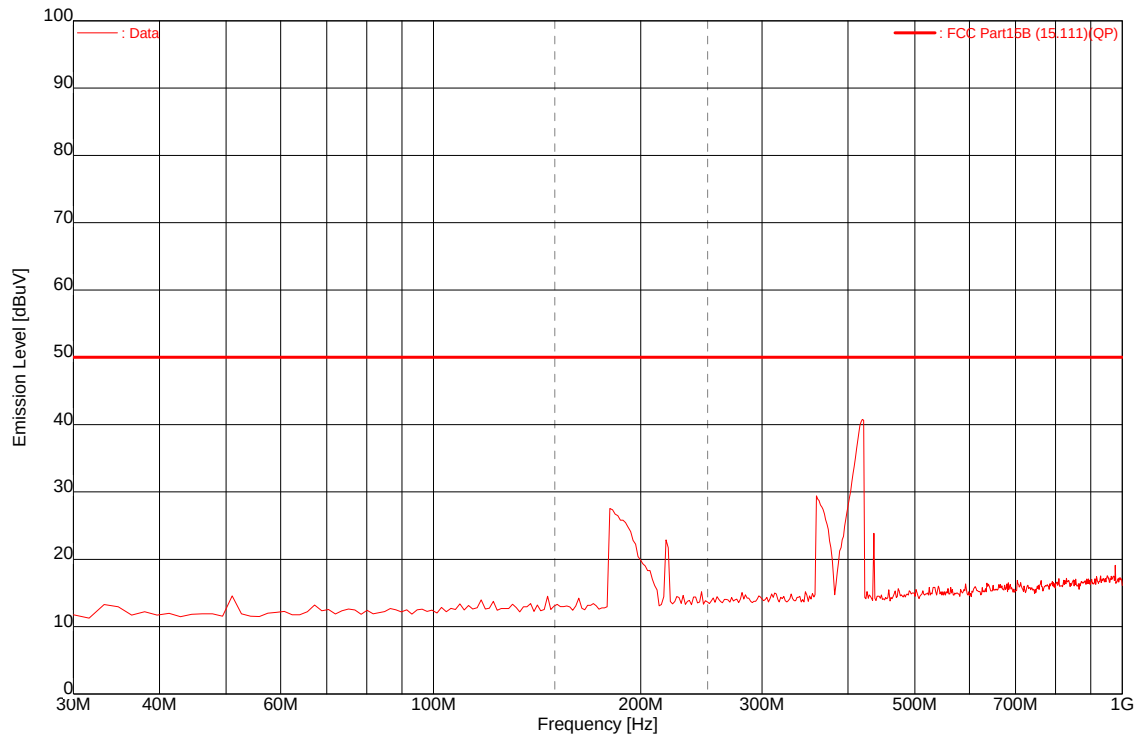
26.0degC /45.0%

Date tested : Aug 26 2010

Test mode : VFO SCAN
mode(410-470MHz:Band A)

Company : Kenwood Corporation
EUT Name : 144/430MHz FM DUAL
Model number : TH-D72A
Serial number : None

Power source : DC 13.8V
File number : JT10080007
Engineer : Atsuyuki Morishima
Note :



Frequency [MHz]	Reading [dBuV]	Factor [dB]	Emission [dBuV]	Limit [dBuV]	Margin [dB]
33.60	<u>25.8</u>	-16.4	<u>9.4</u>	50.0	<u>40.6</u>
50.40	<u>28.0</u>	-16.1	<u>11.9</u>	50.0	<u>38.1</u>
67.20	<u>24.0</u>	-15.8	<u>8.2</u>	50.0	<u>41.8</u>
180.02	<u>42.4</u>	-14.3	<u>28.1</u>	50.0	<u>21.9</u>
360.05	<u>42.8</u>	-13.1	<u>29.7</u>	50.0	<u>20.3</u>
420.04	<u>55.0</u>	-13.2	<u>41.8</u>	50.0	<u>8.2</u>

Higher six points are underlined.

Other frequencies : Below the FCC Part15B (15.111) limit

Emission Level = Read + Factor (Pad, Cable, Preamp)

Limit : 2nW = 50dBuV (50ohm impedance)

10.3.16 VFO SCAN mode(410 – 470MHz:Band A) [1000 – 8000MHz]

< Graph number #30 >

SPECTRUM ANALYSIS

Tochigi No.1 Test Site

26.0degC /46.0%

Date tested : Aug 27 2010

Test mode : VFO SCAN
mode(410-470MHz:Band A)

Company : Kenwood Corporation

Power source : DC 13.8V

EUT Name : 144/430MHz FM DUAL

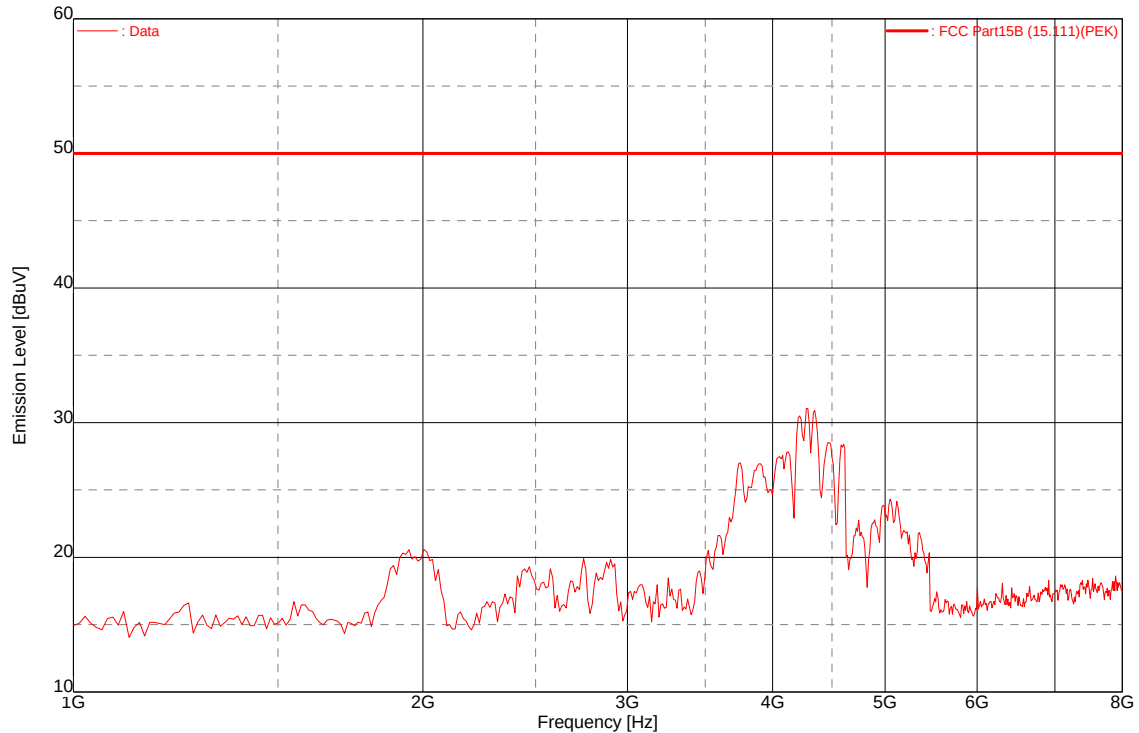
File number : JT10080007

Model number : TH-D72A

Engineer : Atsuyuki Morishima

Serial number : None

Note :



Frequency [MHz]	Reading [dBuV]	Factor [dB]	Emission [dBuV]	Limit [dBuV]	Margin [dB]
4193.97	<u>59.5</u>	-27.1	<u>32.4</u>	50.0	<u>17.6</u>

Higher six points are underlined.

Other frequencies : Below the FCC Part15B (15.111) limit

Emission Level = Read + Factor (Pad, Cable, Preamp)

Limit : 2nW = 50dBuV (50ohm impedance)

Note : There is the margin of 20dB over expect for the above points.

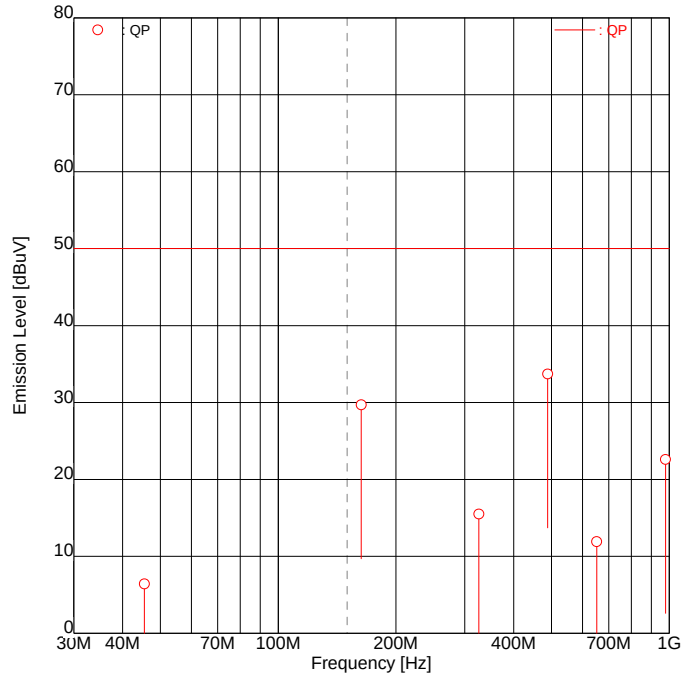
10.3.17 RX mode(118.000MHz :Band B) [30 – 1000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(118.000MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 26 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 47.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	45.5050	<u>22.5</u>	-16.1	<u>6.4</u>	50.0	<u>43.6</u>
2	163.0500	<u>44.3</u>	-14.6	<u>29.7</u>	50.0	<u>20.3</u>
3	326.1010	<u>28.5</u>	-13.0	<u>15.5</u>	50.0	<u>34.5</u>
4	489.1500	<u>46.7</u>	-13.0	<u>33.7</u>	50.0	<u>16.3</u>
5	652.2000	<u>24.5</u>	-12.6	<u>11.9</u>	50.0	<u>38.1</u>
6	978.3020	<u>33.0</u>	-10.4	<u>22.6</u>	50.0	<u>27.4</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B (15.111) limit
Emission Level = Read + Factor(Pad,Cable,Preamp)
Limit: 2nW = 50dBuV(50ohm impedance)

emiT 3, 0, 0, 0

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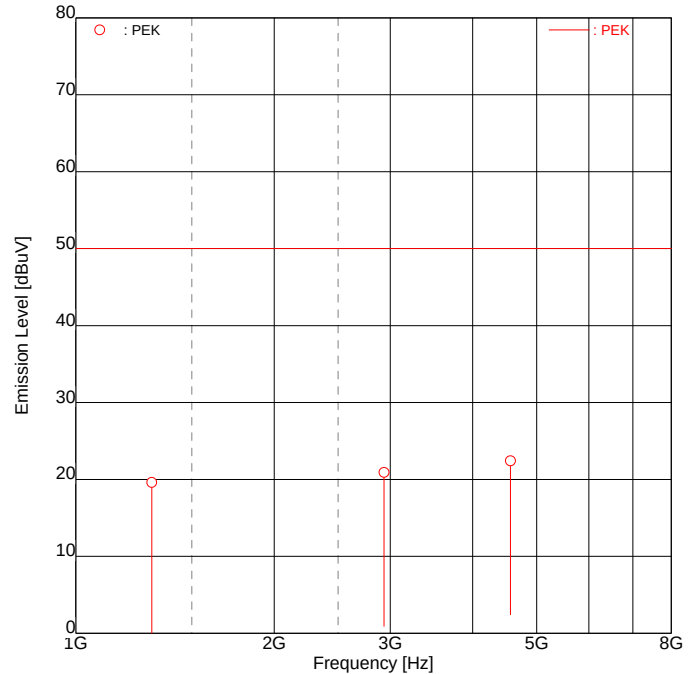
10.3.18 RX mode(118.000MHz :Band B) [1000 – 8000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(118.000MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 27 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 46.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	1304.3920	<u>49.8</u>	-30.2	<u>19.6</u>	50.0	<u>30.4</u>
2	2934.8580	<u>49.3</u>	-28.4	<u>20.9</u>	50.0	<u>29.1</u>
3	4565.3830	<u>49.4</u>	-27.0	<u>22.4</u>	50.0	<u>27.6</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B (15.111) limit
Emission Level = Read + Factor(Pad,Cable,Preamp)
Limit: 2nW = 50dBuV(50ohm impedance)

emiT 3, 0, 0, 0

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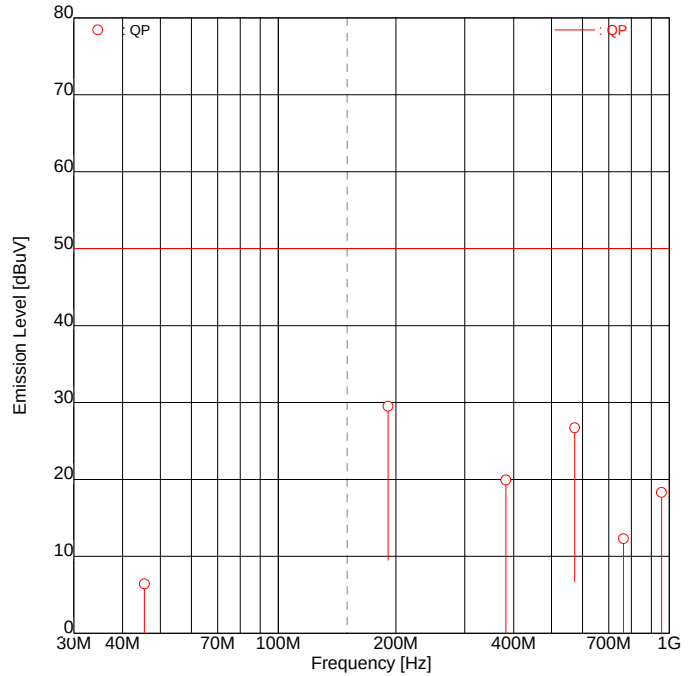
10.3.19 RX mode(146.000MHz :Band B) [30 – 1000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(146.000MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 26 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 47.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	45.5050	<u>22.5</u>	-16.1	<u>6.4</u>	50.0	<u>43.6</u>
2	191.0480	<u>43.7</u>	-14.2	<u>29.5</u>	50.0	<u>20.5</u>
3	382.1010	<u>33.0</u>	-13.1	<u>19.9</u>	50.0	<u>30.1</u>
4	573.1510	<u>39.7</u>	-13.0	<u>26.7</u>	50.0	<u>23.3</u>
5	764.2010	<u>24.2</u>	-11.9	<u>12.3</u>	50.0	<u>37.7</u>
6	955.2530	<u>28.9</u>	-10.6	<u>18.3</u>	50.0	<u>31.7</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B (15.111) limit
Emission Level = Read + Factor(Pad,Cable,Preamp)
Limit: 2nW = 50dBuV(50ohm impedance)

emiT 3, 0, 0, 0

Copyright(c)2007 Intertek Japan K.K.

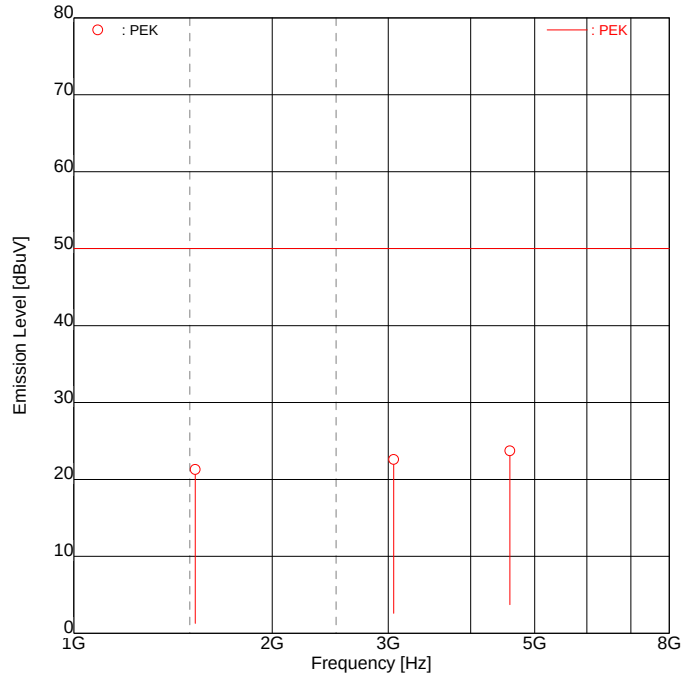
10.3.20 RX mode(146.000MHz :Band B) [1000 – 8000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(146.000MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 27 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 46.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	1528.3580	<u>51.0</u>	-29.7	<u>21.3</u>	50.0	<u>28.7</u>
2	3056.7420	<u>50.9</u>	-28.3	<u>22.6</u>	50.0	<u>27.4</u>
3	4585.1500	<u>50.7</u>	-27.0	<u>23.7</u>	50.0	<u>26.3</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B (15.111) limit
Emission Level = Read + Factor(Pad,Cable,Preamp)
Limit: 2nW = 50dBuV(50ohm impedance)

emiT 3, 0, 0, 0

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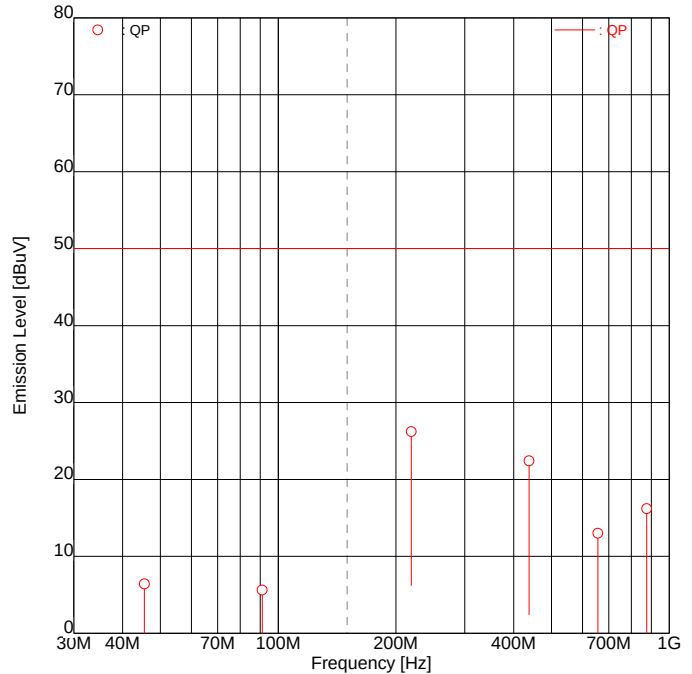
10.3.21 RX mode(173.995MHz :Band B) [30 – 1000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(173.995MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 26 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 47.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	45.5050	<u>22.5</u>	-16.1	<u>6.4</u>	50.0	<u>43.6</u>
2	91.0083	<u>21.1</u>	-15.5	<u>5.6</u>	50.0	<u>44.4</u>
3	219.0450	<u>40.0</u>	-13.8	<u>26.2</u>	50.0	<u>23.8</u>
4	438.0910	<u>35.7</u>	-13.3	<u>22.4</u>	50.0	<u>27.6</u>
5	657.1370	<u>25.6</u>	-12.6	<u>13.0</u>	50.0	<u>37.0</u>
6	876.1800	<u>27.4</u>	-11.2	<u>16.2</u>	50.0	<u>33.8</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B (15.111) limit
Emission Level = Read + Factor(Pad,Cable,Preamp)
Limit: 2nW = 50dBuV(50ohm impedance)

emiT 3, 0, 0, 0

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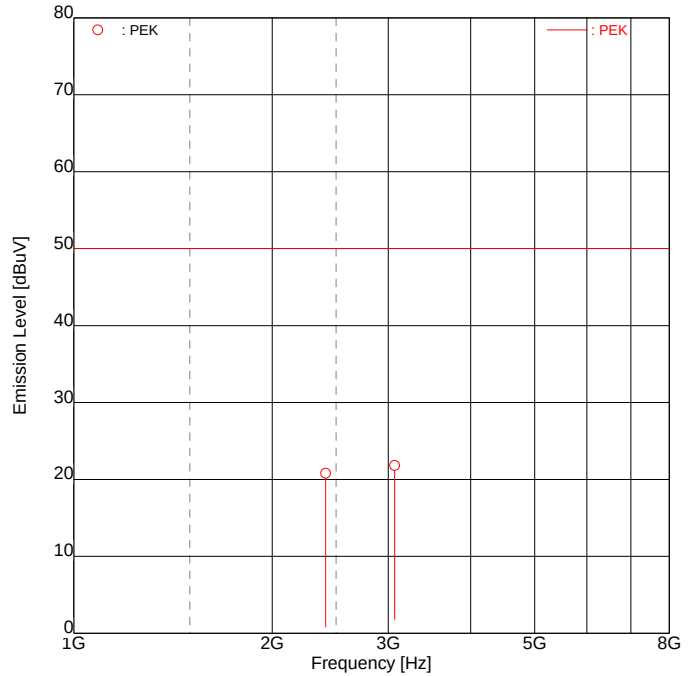
10.3.22 RX mode(173.995MHz :Band B) [1000 – 8000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(173.995MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 27 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 46.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	2409.5250	<u>49.5</u>	-28.7	<u>20.8</u>	50.0	<u>29.2</u>
2	3066.6750	<u>50.1</u>	-28.3	<u>21.8</u>	50.0	<u>28.2</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B (15.111) limit
Emission Level = Read + Factor(Pad,Cable,Preamp)
Limit: 2nW = 50dBuV(50ohm impedance)

emiT 3, 0, 0, 0

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10.3.23 VFO SCAN mode(118 – 174MHz:Band B) [30 – 1000MHz]

< Graph number #15 >

SPECTRUM ANALYSIS

Tochigi No.1 Test Site

26.0degC /45.0%

Date tested : Aug 26 2010

Test mode : VFO SCAN
mode(118-174MHz:Band B)

Company : Kenwood Corporation

Power source : DC 13.8V

EUT Name : 144/430MHz FM DUAL

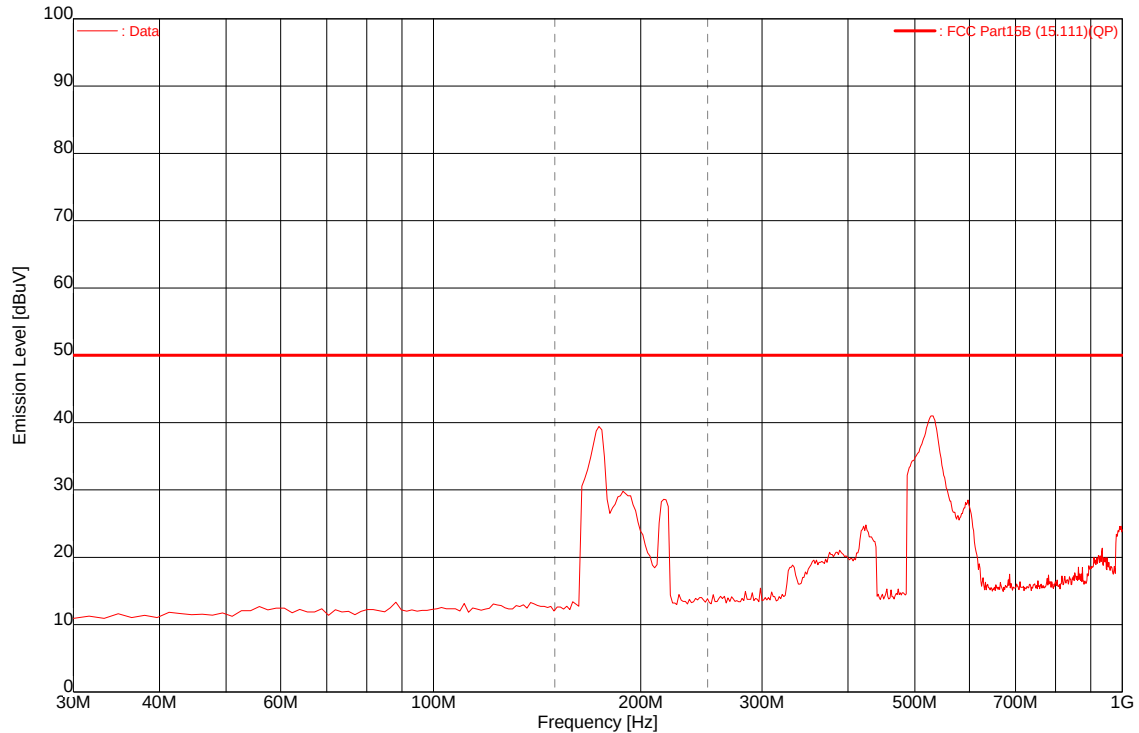
File number : JT10080007

Model number : TH-D72A

Engineer : Atsuyuki Morishima

Serial number : None

Note :



Frequency [MHz]	Reading [dBuV]	Factor [dB]	Emission [dBuV]	Limit [dBuV]	Margin [dB]
173.40	<u>54.5</u>	-14.4	<u>40.1</u>	50.0	<u>9.9</u>
189.63	<u>44.1</u>	-14.2	<u>29.9</u>	50.0	<u>20.1</u>
215.22	<u>42.8</u>	-13.9	<u>28.9</u>	50.0	<u>21.1</u>
422.49	<u>37.6</u>	-13.2	<u>24.4</u>	50.0	<u>25.6</u>
528.37	<u>55.1</u>	-13.0	<u>42.1</u>	50.0	<u>7.9</u>
596.45	<u>42.1</u>	-13.0	<u>29.1</u>	50.0	<u>20.9</u>

Higher six points are underlined.

Other frequencies : Below the FCC Part15B (15.111) limit

Emission Level = Read + Factor (Pad, Cable, Preamp)

Limit : 2nW = 50dBuV (50ohm impedance)

10.3.24 VFO SCAN mode(118 – 174MHz:Band B) [1000 – 8000MHz]

< Graph number #31 >

SPECTRUM ANALYSIS

Tochigi No.1 Test Site

26.0degC /46.0%

Date tested : Aug 27 2010

Test mode : VFO SCAN
mode(118-174MHz:Band B)

Company : Kenwood Corporation

Power source : DC 13.8V

EUT Name : 144/430MHz FM DUAL

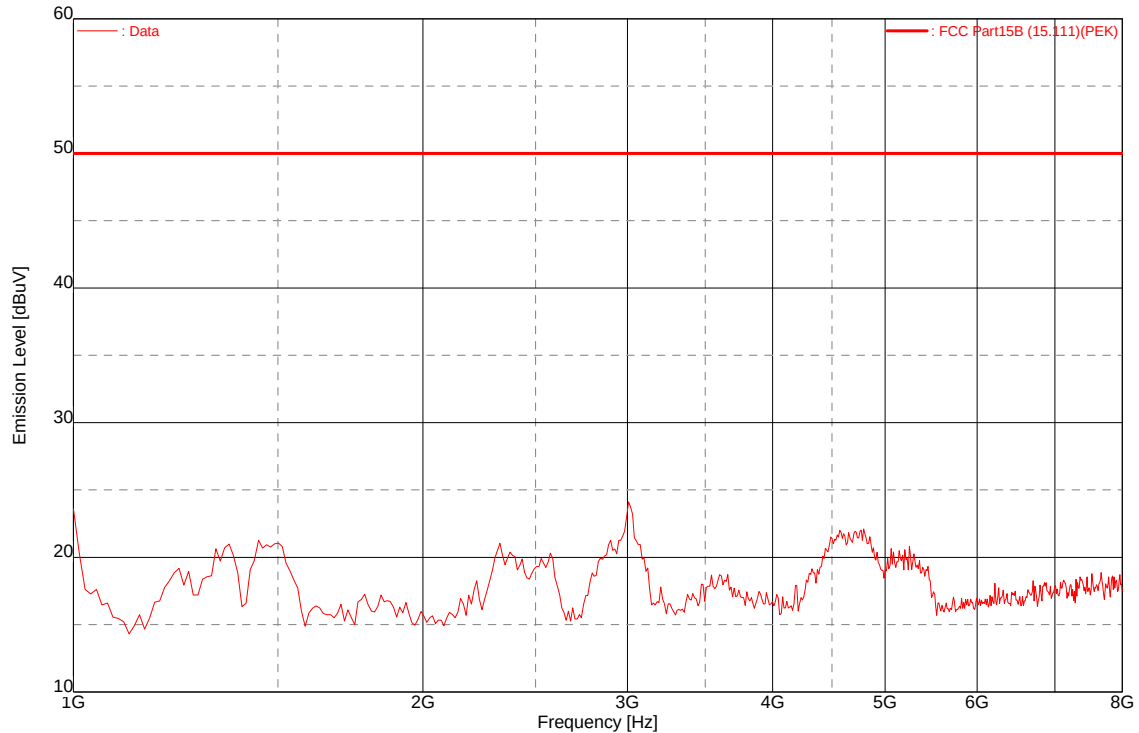
File number : JT10080007

Model number : TH-D72A

Engineer : Atsuyuki Morishima

Serial number : None

Note :



Frequency [MHz]	Reading [dBuV]	Factor [dB]	Emission [dBuV]	Limit [dBuV]	Margin [dB]
3021.02	<u>52.6</u>	-28.3	<u>24.3</u>	50.0	<u>25.7</u>

Higher six points are underlined.

Other frequencies : Below the FCC Part15B (15.111) limit

Emission Level = Read + Factor (Pad, Cable, Preamp)

Limit : 2nW = 50dBuV (50ohm impedance)

Note : There is the margin of 20dB over expect for the above points.

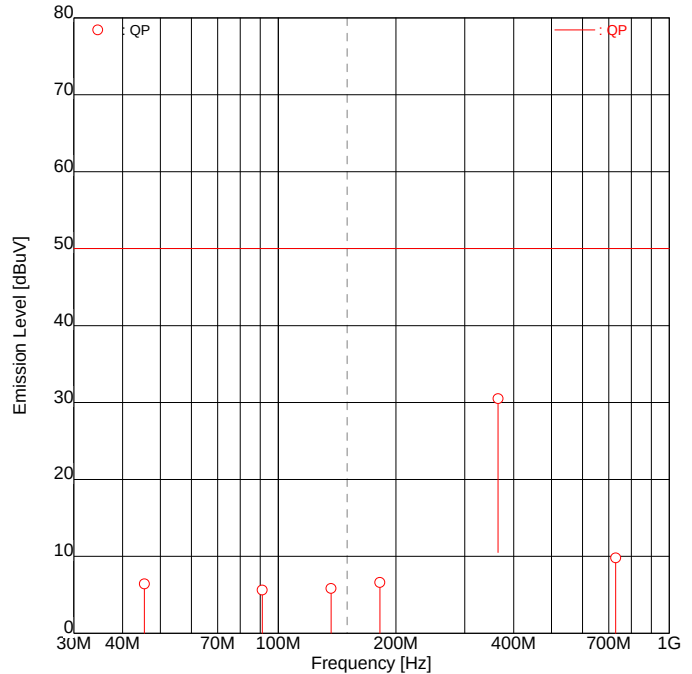
10.3.25 RX mode(320.000MHz :Band B) [30 – 1000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(320.000MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 26 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 47.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	45.5050	<u>22.5</u>	-16.1	<u>6.4</u>	50.0	<u>43.6</u>
2	91.0083	<u>21.1</u>	-15.5	<u>5.6</u>	50.0	<u>44.4</u>
3	136.5150	<u>20.7</u>	-14.9	<u>5.8</u>	50.0	<u>44.2</u>
4	182.0166	<u>20.9</u>	-14.3	<u>6.6</u>	50.0	<u>43.4</u>
5	365.0520	<u>43.6</u>	-13.1	<u>30.5</u>	50.0	<u>19.5</u>
6	730.1040	<u>22.0</u>	-12.2	<u>9.8</u>	50.0	<u>40.2</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B (15.111) limit
Emission Level = Read + Factor(Pad,Cable,Preamp)
Limit: 2nW = 50dBuV(50ohm impedance)

emiT 3, 0, 0, 0

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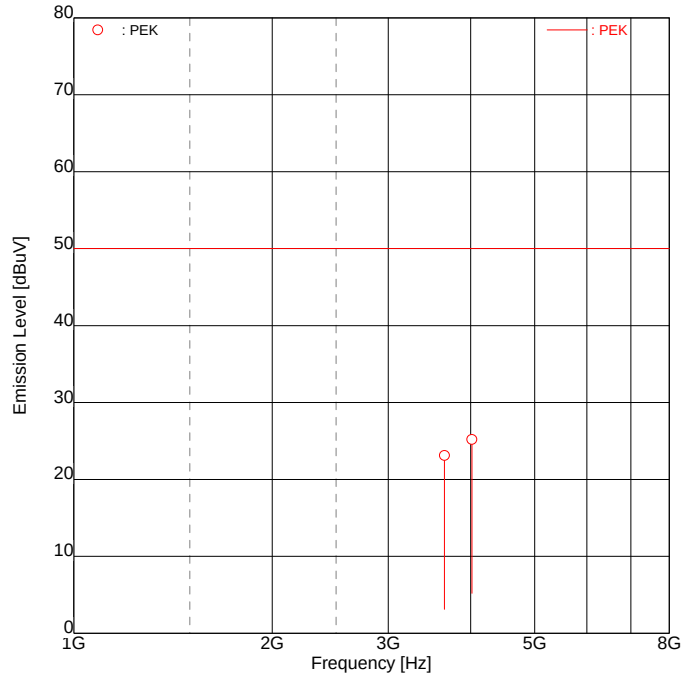
10.3.26 RX mode(320.000MHz :Band B) [1000 – 8000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(320.000MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 27 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 46.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	3650.3700	<u>50.8</u>	-27.7	<u>23.1</u>	50.0	<u>26.9</u>
2	4015.5530	<u>52.3</u>	-27.1	<u>25.2</u>	50.0	<u>24.8</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B (15.111) limit
Emission Level = Read + Factor(Pad,Cable,Preamp)
Limit: 2nW = 50dBuV(50ohm impedance)

emiT 3, 0, 0, 0

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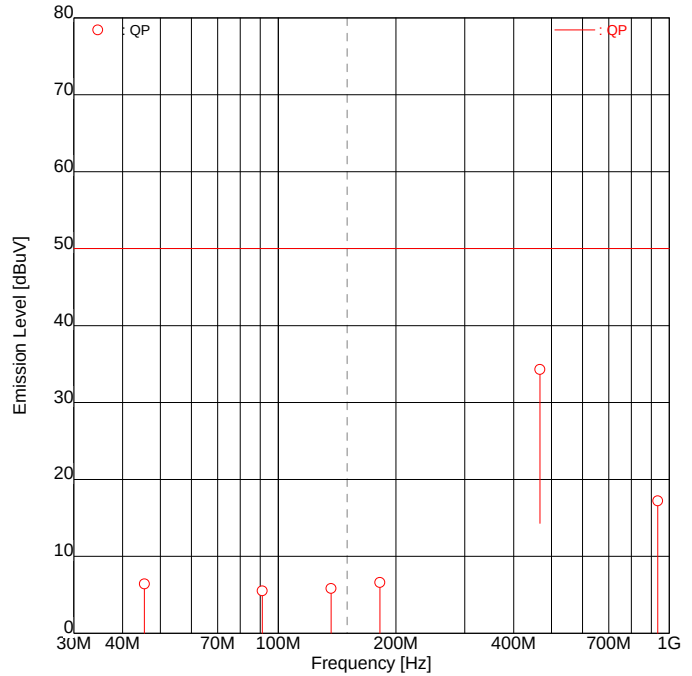
10.3.27 RX mode(422.000MHz :Band B) [30 – 1000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(422.000MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 26 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 47.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	45.5050	<u>22.5</u>	-16.1	<u>6.4</u>	50.0	<u>43.6</u>
2	91.0083	<u>21.0</u>	-15.5	<u>5.5</u>	50.0	<u>44.5</u>
3	136.5150	<u>20.7</u>	-14.9	<u>5.8</u>	50.0	<u>44.2</u>
4	182.0166	<u>20.9</u>	-14.3	<u>6.6</u>	50.0	<u>43.4</u>
5	467.0510	<u>47.5</u>	-13.2	<u>34.3</u>	50.0	<u>15.7</u>
6	934.1010	<u>28.0</u>	-10.8	<u>17.2</u>	50.0	<u>32.8</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B (15.111) limit
Emission Level = Read + Factor(Pad,Cable,Preamp)
Limit: 2nW = 50dBuV(50ohm impedance)

emiT 3, 0, 0, 0

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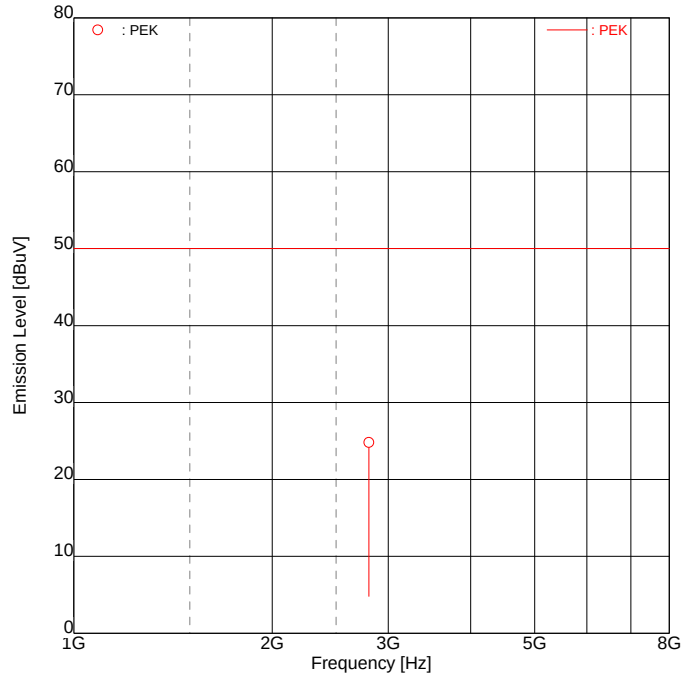
10.3.28 RX mode(422.000MHz :Band B) [1000 – 8000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(422.000MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 27 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 46.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	2802.2920	<u>53.3</u>	-28.5	<u>24.8</u>	50.0	<u>25.2</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B (15.111) limit
Emission Level = Read + Factor(Pad,Cable,Preamp)
Limit: 2nW = 50dBuV(50ohm impedance)

emiT 3, 0, 0, 0

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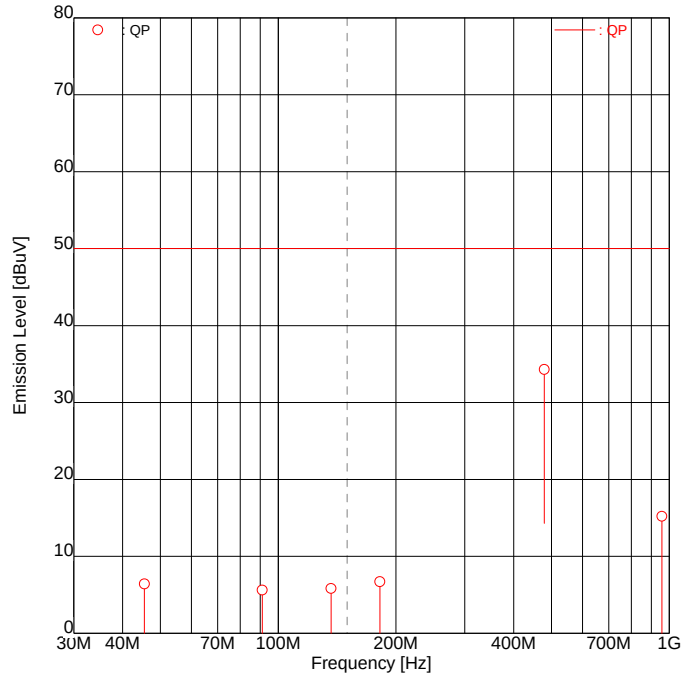
10.3.29 RX mode(523.995MHz :Band B) [30 – 1000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(523.995MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 26 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 47.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	45.5050	<u>22.5</u>	-16.1	<u>6.4</u>	50.0	<u>43.6</u>
2	91.0083	<u>21.1</u>	-15.5	<u>5.6</u>	50.0	<u>44.4</u>
3	136.5150	<u>20.7</u>	-14.9	<u>5.8</u>	50.0	<u>44.2</u>
4	182.0166	<u>21.0</u>	-14.3	<u>6.7</u>	50.0	<u>43.3</u>
5	478.9460	<u>47.4</u>	-13.1	<u>34.3</u>	50.0	<u>15.7</u>
6	957.8940	<u>25.8</u>	-10.6	<u>15.2</u>	50.0	<u>34.8</u>

Higher six points are underlined.
Other frequencies : Below the FCC Part15B (15.111) limit
Emission Level = Read + Factor(Pad,Cable,Preamp)
Limit: 2nW = 50dBuV(50ohm impedance)

emiT 3, 0, 0, 0

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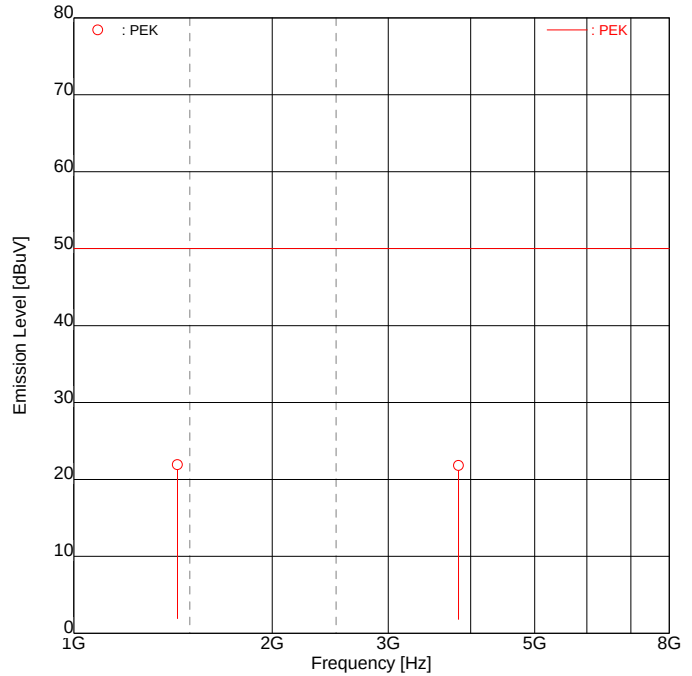
10.3.30 RX mode(523.995MHz :Band B) [1000 – 8000MHz]

Intertek Japan K.K.

Tochigi No.1 Test Site

Conducted Power on Antenna Port

APPLICANT : Kenwood Corporation
EUT NAME : 144/430MHz FM DUAL BANDER
MODEL NO. : TH-D72A
SERIAL NO. : None
TEST MODE : Rx mode(523.995MHz:Band B)
POWER SOURCE : DC 13.8V
DATE TESTED : Aug 27 2010
FILE NO. : JT10080007
REGULATION : FCC Part15B (15.111)
TEST METHOD : ANSI C63.4-2003
TEMPERATURE : 26.0 [degC]
HUMIDITY : 46.0 [%]
NOTE :



ENGINEER : Atsuyuki Morishima

FREQUENCY [No]	FREQUENCY [MHz]	READING [dBuV]	FACTOR [dB]	EMISSION [dBuV]	LIMIT [dBuV]	MARGIN [dB]
1	1436.7920	<u>51.8</u>	-29.9	<u>21.9</u>	50.0	<u>28.1</u>
2	3831.5560	<u>49.2</u>	-27.4	<u>21.8</u>	50.0	<u>28.2</u>

Higher six points are underlined.

Other frequencies : Below the FCC Part15B (15.111) limit

Emission Level = Read + Factor(Pad,Cable,Preamp)

Limit: 2nW = 50dBuV(50ohm impedance)

10.3.31 VFO SCAN mode(320 – 524MHz:Band B) [30 – 1000MHz]

< Graph number #16 >

SPECTRUM ANALYSIS

Tochigi No.1 Test Site

26.0degC /45.0%

Date tested : Aug 26 2010

Test mode : VFO SCAN
mode(320-524MHz:Band B)

Company : Kenwood Corporation

Power source : DC 13.8V

EUT Name : 144/430MHz FM DUAL

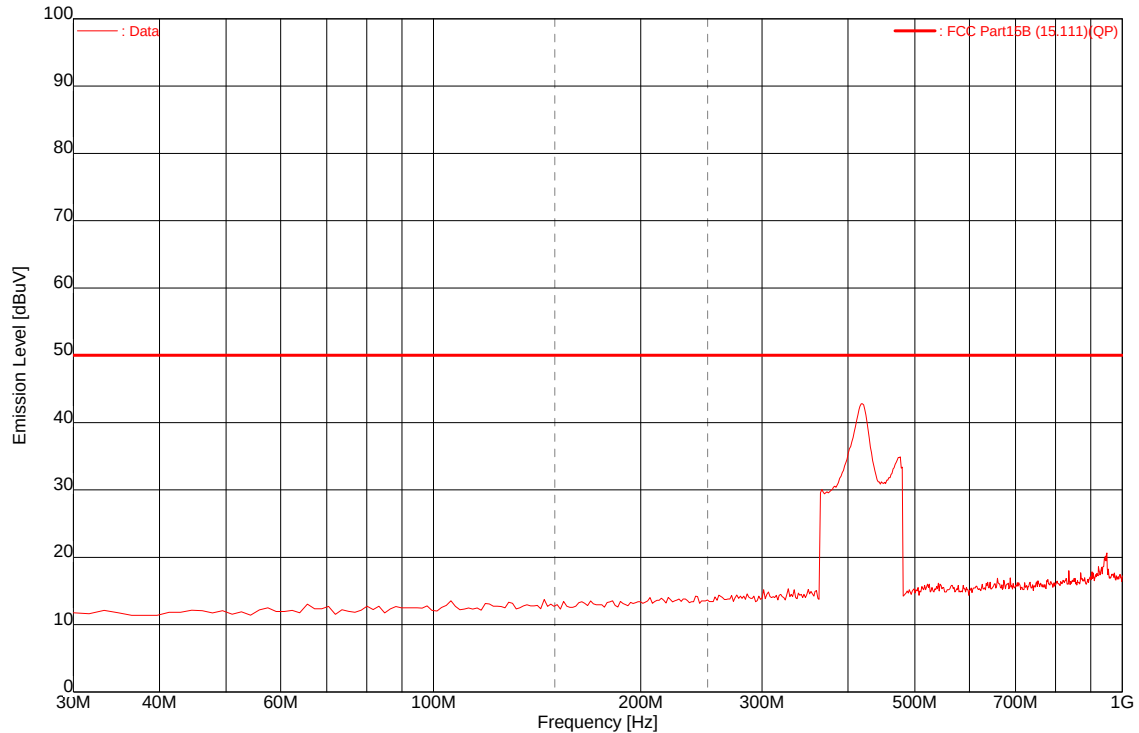
File number : JT10080007

Model number : TH-D72A

Engineer : Atsuyuki Morishima

Serial number : None

Note :



Frequency [MHz]	Reading [dBuV]	Factor [dB]	Emission [dBuV]	Limit [dBuV]	Margin [dB]
45.51	<u>22.6</u>	-16.1	<u>6.5</u>	50.0	<u>43.5</u>
91.00	21.1	-15.5	5.6	50.0	44.4
136.52	<u>20.8</u>	-14.9	<u>5.9</u>	50.0	<u>44.1</u>
182.02	<u>20.9</u>	-14.3	<u>6.6</u>	50.0	<u>43.4</u>
418.71	<u>57.0</u>	-13.2	<u>43.8</u>	50.0	<u>6.2</u>
475.05	<u>49.0</u>	-13.1	<u>35.9</u>	50.0	<u>14.1</u>
932.90	<u>28.1</u>	-10.8	<u>17.3</u>	50.0	<u>32.7</u>

Higher six points are underlined.

Other frequencies : Below the FCC Part15B (15.111) limit

Emission Level = Read + Factor (Pad, Cable, Preamp)

Limit : 2nW = 50dBuV (50ohm impedance)

10.3.32 VFO SCAN mode(320 – 524MHz:Band B) [1000 – 8000MHz]

< Graph number #32 >

SPECTRUM ANALYSIS

Tochigi No.1 Test Site

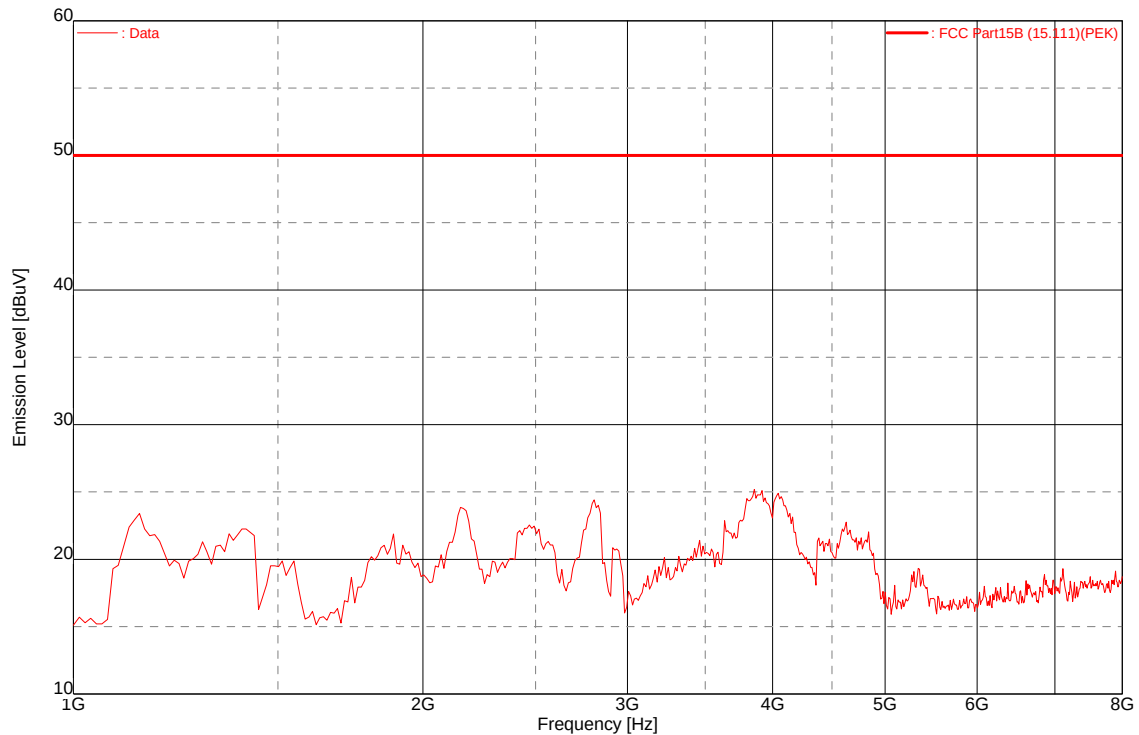
26.0degC /46.0%

Date tested : Aug 27 2010

Test mode : VFO SCAN
mode(320-524MHz:Band B)

Company : Kenwood Corporation
EUT Name : 144/430MHz FM DUAL
Model number : TH-D72A
Serial number : None

Power source : DC 13.8V
File number : JT10080007
Engineer : Atsuyuki Morishima
Note :



Frequency [MHz]	Reading [dBuV]	Factor [dB]	Emission [dBuV]	Limit [dBuV]	Margin [dB]
2829.84	<u>53.4</u>	-28.5	<u>24.9</u>	50.0	<u>25.1</u>
3876.57	<u>52.9</u>	-27.3	<u>25.6</u>	50.0	<u>24.4</u>

Higher six points are underlined.

Other frequencies : Below the FCC Part15B (15.111) limit

Emission Level = Read + Factor (Pad, Cable, Preamp)

Limit : 2nW = 50dBuV (50ohm impedance)

Note : There is the margin of 20dB over expect for the above points.

10.4 38dB Rejection Test (15.121(b))

10.4.1 VFO SCAN mode(136 – 155MHz:Band A)

Location	:	Tochigi No.1 Test Site
Date Tested	:	September 6, 2010 to September 8, 2010
Temperature	:	48 to 68 [degC]
Humidity	:	50 to 69 [%]
Engineer	:	Atsuyuki Morishima

Injected Frequency [MHz]	Detected Frequency [MHz]	12dB SINAD Reading Injected Frequency [dBm]	12dB SINAD Reading Detected Frequency	Rejection Level [dB]	Margin [dB]
824.040	No Point Detected	N / A	N / A	N / A	N / A
836.505	No Point Detected	N / A	N / A	N / A	N / A
848.970	No Point Detected	N / A	N / A	N / A	N / A
869.040	No Point Detected	N / A	N / A	N / A	N / A
881.505	No Point Detected	N / A	N / A	N / A	N / A
893.970	No Point Detected	N / A	N / A	N / A	N / A

SG Input Level = 66dBuV

SG Reference Level = -1.6dBuV (the worst case sensitivity)

10.4.2 VFO SCAN mode(410 – 470MHz:Band A)

Location	:	Tochigi No.1 Test Site
Date Tested	:	September 6, 2010 to September 8, 2010
Temperature	:	48 to 68 [degC]
Humidity	:	50 to 69 [%]
Engineer	:	Atsuyuki Morishima

Injected Frequency [MHz]	Detected Frequency [MHz]	12dB SINAD Reading Injected Frequency [dBm]	12dB SINAD Reading Detected Frequency	Rejection Level [dB]	Margin [dB]
824.040	No Point Detected	N / A	N / A	N / A	N / A
836.505	No Point Detected	N / A	N / A	N / A	N / A
848.970	No Point Detected	N / A	N / A	N / A	N / A
869.040	No Point Detected	N / A	N / A	N / A	N / A
881.505	No Point Detected	N / A	N / A	N / A	N / A
893.970	No Point Detected	N / A	N / A	N / A	N / A

SG Input Level = 66dBuV
SG Reference Level = -1.6dBuV (the worst case sensitivity)

10.4.3 VFO SCAN mode(118 – 174MHz:Band B)

Location	:	Tochigi No.1 Test Site
Date Tested	:	September 6, 2010 to September 8, 2010
Temperature	:	48 to 68 [degC]
Humidity	:	50 to 69 [%]
Engineer	:	Atsuyuki Morishima

Injected Frequency [MHz]	Detected Frequency [MHz]	12dB SINAD Reading Injected Frequency [dBm]	12dB SINAD Reading Detected Frequency	Rejection Level [dB]	Margin [dB]
824.040	No Point Detected	N / A	N / A	N / A	N / A
836.505	No Point Detected	N / A	N / A	N / A	N / A
848.970	No Point Detected	N / A	N / A	N / A	N / A
869.040	No Point Detected	N / A	N / A	N / A	N / A
881.505	No Point Detected	N / A	N / A	N / A	N / A
893.970	No Point Detected	N / A	N / A	N / A	N / A

SG Input Level = 66dBuV
SG Reference Level = -1.6dBuV (the worst case sensitivity)

10.4.4 VFO SCAN mode(320 – 524MHz:Band B)

Location	:	Tochigi No.1 Test Site
Date Tested	:	September 6, 2010 to September 8, 2010
Temperature	:	48 to 68 [degC]
Humidity	:	50 to 69 [%]
Engineer	:	Atsuyuki Morishima

Injected Frequency [MHz]	Detected Frequency [MHz]	12dB SINAD Reading Injected Frequency [dBm]	12dB SINAD Reading Detected Frequency	Rejection Level [dB]	Margin [dB]
824.040	No Point Detected	N / A	N / A	N / A	N / A
836.505	No Point Detected	N / A	N / A	N / A	N / A
848.970	No Point Detected	N / A	N / A	N / A	N / A
869.040	No Point Detected	N / A	N / A	N / A	N / A
881.505	No Point Detected	N / A	N / A	N / A	N / A
893.970	No Point Detected	N / A	N / A	N / A	N / A

SG Input Level = 66dBuV
SG Reference Level = -1.6dBuV (the worst case sensitivity)

10.5 Sample Calculations

10.5.1 Conducted disturbance at mains terminals

Example @ 3.7462MHz (QP)

Emission Level	=	Meter Reading	29.5	dBuV
	+	Factor	10.5	dB
			=	40.0 dBuV
Margin	=	Limit (QP)	56.0	dBuV
	-	Emission Level	40.0	dBuV
			=	16.0 dB

Factor = LISN Factor + Cable Loss + Pad Loss

10.5.2 Radiated disturbance

Example @ 467.05MHz

Emission Level	=	Meter Reading	42.0	dBuV
	+	Factor	1.8	dB/m
			=	43.8 dBuV/m
Margin	=	Limit	46.0	dBuV/m
	-	Emission Level	43.8	dBuV/m
			=	2.2 dB

Factor = Antenna Factor + Cable Loss + Amplifier Gain + Pad Loss

10.5.3 Conducted Power on Antenna Port

Example @ 418.71MHz

Output Power Level	=	Meter Reading		57.0	dBuV
	+	Factor		-13.2	dB
	=			43.8	dBuV
Margin	=	Limit (:2.0nW)		50.0	dBuV
	-	Output Power Level		43.8	dBuV
	=			6.2	dB

Factor = Cable Loss + Amplifier Gain + Pad Loss

10.5.4 38dB Rejection

Example @ N/A MHz

Rejection Level	=	12dB SINAD Reading at Injected Frequency		N/A	dBm
	-	12dB SINAD Reading at Detected Frequency		N/A	dBm
	=			N/A	dB
Margin	=	Rejection Level		N/A	dB
	-	Limit		38.0	dB
	=			N/A	dB

SECTION 11. LIST OF MEASURING INSTRUMENTS

Instrument	Model No.	Serial No.	Manufacturer	Cal. date	Due date
Conducted disturbance at mains terminals					
LISN (EUT)	ESH2-Z5	845268/023	ROHDE & SCHWARZ	Jun. 25, 10	Jun. 30, 11
10dB Attenuator	CFA-01(BPJ-10)	None	TAMAGAWA	Apr. 07, 10	Apr. 30, 11
LISN (Peripheral)	KNW-407	8-1395-5	KYORITSU	Jul. 23, 10	Jul. 31, 11
50Ω Termination	CT-01	None	TAMAGAWA	Jul. 14, 10	Jul. 31, 11
Coaxial cable(C1)	5D-2W(6.0 m)	1CL01a	INTERTEK	Apr. 07, 10	Apr. 30, 11
Coaxial cable(C2)	RG-5A/U(7.0 m)	1CL02	INTERTEK	Apr. 07, 10	Apr. 30, 11
Coaxial cable(C3)	5D-2W(0.1 m)	1CL03	INTERTEK	Apr. 07, 10	Apr. 30, 11
Coaxial cable(C4)	5D-2W(1.7 m)	1CL04	INTERTEK	Apr. 07, 10	Apr. 30, 11
RF Switch	ACX-150	None	INTERTEK	May 13, 10	May 31, 11
Test receiver	ESS (Firmware Version 1.07)	842886/013	ROHDE & SCHWARZ	Jan. 06, 10	Jan. 31, 11
Testing Software	emiT (Version 3,0,0,0)				
Radiated disturbance					
Broad Band antenna	VULB9168	217	Schwarzbeck	Apr. 09, 10	Apr. 30, 11
6dB Attenuator	CFA-01(NPJ-6)	None	TAMAGAWA	Apr. 07, 10	Apr. 30, 11
Step Attenuator	8494B	2805A14560	HEWLETT PACKARD	Apr. 07, 10	Apr. 30, 11
Amplifier	8447D	2727A05322	HEWLETT PACKARD	Apr. 07, 10	Apr. 30, 11
Double ridged antenna	3115	9903-5699	EMCO	Apr. 21, 10	Apr. 30, 11
6dB Attenuator	8493C	75550	Agilent	Apr. 13, 10	Apr. 30, 11
Amplifier	8449B	3008A01182	HEWLETT PACKARD	Apr. 13, 10	Apr. 30, 11
Coaxial cable(RG1)	SUCOFLEX(1.5 m)	290799/4	SUHNER	Apr. 13, 10	Apr. 30, 11
Coaxial cable(RG2)	SUCOFLEX(6.0 m)	290800/4	SUHNER	Apr. 13, 10	Apr. 30, 11
Spectrum analyzer	8563E (Firmware Revision 971024)	3821A09565	HEWLETT PACKARD	Dec. 24, 09	Dec. 31, 10
Coaxial cable(R1)	5D-2W(10.0 m)	1R1001a	INTERTEK	Apr. 07, 10	Apr. 30, 11
Coaxial cable(R2)	RG-177/U(20.0 m)	1R1002	INTERTEK	Apr. 07, 10	Apr. 30, 11
Coaxial cable(R3)	RG-5A/U(1.3 m)	1R1003	INTERTEK	Apr. 07, 10	Apr. 30, 11
Coaxial cable(R4)	RG-5A/U(0.2 m)	1R1004	INTERTEK	Apr. 07, 10	Apr. 30, 11
Coaxial cable(R5)	5D-2W(0.7 m)	1R1005	INTERTEK	Apr. 07, 10	Apr. 30, 11
Coaxial cable(R6)	5D-2W(0.1 m)	1R1006	INTERTEK	Apr. 07, 10	Apr. 30, 11
Coaxial cable(R7)	5D-2W(1.7 m)	1R1007	INTERTEK	Apr. 07, 10	Apr. 30, 11
Coaxial cable(R8)	5D-2W(6.0 m)	1R1008a	INTERTEK	Apr. 07, 10	Apr. 30, 11
Site Attenuation				Aug. 11, 10	Aug. 31, 11
RF Switch	ACX-150	None	INTERTEK	May 13, 10	May 31, 11
Test receiver	ESS (Firmware Version 1.07)	842886/013	ROHDE & SCHWARZ	Jan. 06, 10	Jan. 31, 11
Testing Software	emiT (Version 3,0,0,0)				

Instrument	Model No.	Serial No.	Manufacturer	Cal. date	Due date
Conducted Power on Antenna Port					
Step Attenuator	8494B	2805A14560	HEWLETT PACKARD	Apr. 07, 10	Apr. 30, 11
Amplifier	8447D	2727A05322	HEWLETT PACKARD	Apr. 07, 10	Apr. 30, 11
3dB Attenuator	8493C	07818	HEWLETT PACKARD	Apr. 13, 10	Apr. 30, 11
Amplifier	8449B	3008A01182	HEWLETT PACKARD	Apr. 13, 10	Apr. 30, 11
10dB Attenuator	CFA-05NPJ-10	262856	TAMAGAWA	Oct. 01, 09	Oct. 31, 10
Spectrum analyzer	8563E (Firmware Revision 971024)	3821A09565	HEWLETT PACKARD	Dec. 24, 09	Dec. 31, 10
Test receiver	ESS (Firmware Version 1.07)	842886/013	ROHDE & SCHWARZ	Jan. 06, 10	Jan. 31, 11
Coaxial cable(R4)	RG-5A/U(0.2 m)	1R1004	INTERTEK	Apr. 07, 10	Apr. 30, 11
Coaxial cable(R5)	5D-2W(0.7 m)	1R1005	INTERTEK	Apr. 07, 10	Apr. 30, 11
Coaxial cable(R6)	5D-2W(0.1 m)	1R1006	INTERTEK	Apr. 07, 10	Apr. 30, 11
Coaxial cable(R7)	5D-2W(1.7 m)	1R1007	INTERTEK	Apr. 07, 10	Apr. 30, 11
Coaxial cable(RG1)	SUCOFLEX(1.5 m)	290799/4	SUHNER	Apr. 13, 10	Apr. 30, 11
Coaxial cable(RG2)	SUCOFLEX(6.0 m)	290800/4	SUHNER	Apr. 13, 10	Apr. 30, 11
Coaxial cable(C001a)	5D-2W(18.0m)	C001a	INTERTEK	Nov. 06,09	Nov. 30, 10
RF Switch	ACX-150	None	INTERTEK	May 13, 10	May 31, 11
Testing Software	emiT (Version 3,0,0,0)				
38dB Rejection					
Audio analyzer	8903B	2818A04372	HEWLETT PACKARD	Apr. 09, 10	Apr. 30, 11
Signal Generator	SMY01	7140014	ROHDE & SCHWARZ	Dec. 14, 10	Dec. 31, 11

Note: Test instruments are calibrated according to Quality Manual and Calibration Rules of Intertek Japan K.K.