

***EMC* EMISSION - TEST REPORT**

JQA APPLICATION No. : KL80020521

Name of Product : HF/VHF Transceiver

Model/Type No. : IC-703

FCC ID : AFJ IC-703

Applicant : ICOM Incorporated

Address : 1-6-19, Kuratsukuri, Kami, Hirano-ku, Osaka, Japan

Manufacturer : ICOM Incorporated

Address : 1-6-19, Kuratsukuri, Kami, Hirano-ku, Osaka, Japan

Receive date of EUT : January 22, 2003

Final Judgement : Passed

TEST RESULTS IN THIS REPORT are obtained in use of equipment that is traceable to National Institute of Advanced Industrial Science and Technology(AIST) under METI Japan and Communications Research Lab.(CRL) under MPHPT Japan.

THE TEST RESULTS only responds to the test sample. This test report shall not be reproduced except in full.

Authorized by:



Takashi Yamanaka, Director
JQA KITA-KANSAI Testing Center

DIRECTORY

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TEST REGULATION

FCC Rules and Regulations Part 15 Subpart A and B (August 20, 2002)

- ☐ - Class A Digital Device
- ☐ - Class B Digital Device
- ☒ - Scanning Receiver

Test procedure:

The tests were performed according to the procedures in ANSI C63.4-1992.

GENERAL INFORMATION

Test facility:

- 1) Test Facility located at Kita-Kansai : 1st and 2nd Open Sites (3 m Site)
Test Facility located at Kameoka : 1st Open Site (3, 10 and 30 m, on common plane)
: 2nd Open Site (3 and 10 m, on common plane)

FCC filing No. : 31040/SIT 1300F2

- 2) KITA-KANSAI TESTING CENTER is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance established in Title 15, Part 285 Code of Federal Regulations.
NVLAP Lab Code: 200191-0

Description of the Equipment Under Test (EUT):

- 1) Name : HF/VHF Transceiver
- 2) Model/Type No. : IC-703
- 3) Product Type : Pre-Production (S/N: 00019)
- 4) Category : Scanning Receiver
- 5) EUT Authorization : ☐ - Verification ☒ - Certification ☐ - D.o.C.
- 6) Highest frequency used/generated : 16.384 MHz
- 7) Highest local frequency : 124.455 MHz
- 8) Power Rating : DC 13.8V

Definitions for symbols used in this test report:

- ☒ - Black box indicates that the listed condition, standard or equipment is applicable for this Report.
- ☐ - Blank box indicates that the listed condition, standard or equipment is not applicable for this Report.

TEST CONDITIONS

AC Powerline Conducted Emission Measurement

was performed in the following test site.

Test location:

KITA-KANSAI Testing Center

7-7, Ishimaru, 1-Chome, Mino-Shi, Osaka, 562-0027, Japan

○ - Shielded room

KAMEOKA EMC Branch

9-1, Ozaki, Inukanno, Nishibetsuin-Cho, Kameoka-Shi, Kyoto, 621-0126, Japan

○ - Shielded room

○ - On metal plane of open site

Used test instruments and sites:

Model No.	Device ID	Last Cal. Date	Cal. Interval
○ - ESCS 30	A - 1		
○ - ESH 2	A - 2		
○ - ESH 2	A - 3		
○ - KNW-407	D - 6		
○ - KNW-408	D - 11		
○ - KNW-242	D - 7		
○ - ESH3-Z5	D - 12		
○ - KNW-341C	D - 13		
○ - KNW-408	D - 14		
○ - KNW-244C	D - 77		
○ - KNW-408	D - 78		
○ - ESH2-Z5	D - 10		
○ - ESH2-Z3	D - 17		
○ - 65 BNC-50-0-1	H - 26		
○ - 65 BNC-50-0-1	H - 27		
○ - Cable	H - 7		
○ - Cable	H - 8		

Environmental conditions:

Temperature: _____ °C Humidity: _____ %

Electromagnetic Field Radiated Emission Measurement

was performed in horizontal and vertical polarization, in the frequency range of 30 MHz - 1000 MHz, in the following test site.

Test location:

KITA-KANSAI Testing Center

7-7, Ishimaru, 1-Chome, Mino-Shi, Osaka, 562-0027, Japan

● - 1st open test site (3 meters)

○ - 2nd open test site (3 meters)

KAMEOKA EMC Branch

9-1, Ozaki, Inukanno, Nishibetsuin-Cho, Kameoka-Shi, Kyoto, 621-0126, Japan

○ - 1st open test site ○ - 3 m ○ - 10 m ○ - 30 m

○ - 2nd open test site ○ - 3 m ○ - 10 m

Validation of Site Attenuation:

1) Last Confirmed Date : October 4, 2002

2) Interval : 1 Year

Used test instruments:

Model No.	Device ID	Last Cal. Date	Cal. Interval
○ - ESV/ESV-Z3	A - 7 / A - 17		
○ - ESV/ESV-Z3	A - 6 / A - 18		
○ - ESV/ESV-Z3	A - 4 / A - 20		
○ - ESV/ESV-Z3	A - 8 / A - 19		
● - ESVS 10	A - 5	August, 2002	1 Year
○ - ESCS 30	A - 1		
○ - KBA-511A	C - 11		
○ - KBA-611	C - 21		
● - VHA9103/BBA9106	C - 43	August, 2002	1 Year
● - UHALP9107	C - 42	August, 2002	1 Year
○ - VHA9103/FBAB9177	C - 25		
○ - UHALP9108-A1	C - 28		
● - Cable	H - 5	November, 2002	1 Year

Environmental conditions:

Temperature: 16 °C Humidity: 46 %

Electromagnetic Field Radiated Emission Measurement

was performed in horizontal and vertical polarization, in the frequency range of 1 GHz - 2GHz, in the following test site.

Test location:

KITA-KANSAI Testing Center

7-7, Ishimaru, 1-Chome, Mino-Shi, Osaka, 562-0027, Japan

○ - 1st open test site (3 meters)

○ - 2nd open test site (3 meters)

KAMEOKA EMC Branch

9-1, Ozaki, Inukanno, Nishibetsuin-Cho, Kameoka-Shi, Kyoto, 621-0126, Japan

○ - 1st open test site ○ - 3 m ○ - 10 m ○ - 30 m

○ - 2nd open test site ○ - 3 m ○ - 10 m

Used test instruments:

Model No.	Device ID	Last Cal. Date	Cal. Interval
○ - ESCS 30	A - 1		
○ - 8566B	A - 13		
○ - 8593A	A - 15		
○ - ESV	A - 6		
○ - 4T-10	D - 73		
○ - 4T-10	D - 74		
○ - WJ-6611-513	A - 23		
○ - WJ-6882-824	A - 21		
○ - DBL-0618N515	A - 33		
○ - 91888-2	C - 41 - 1		
○ - 91889-2	C - 41 - 2		
○ - 94613-1	C - 41 - 3		
○ - 91891-2	C - 41 - 4		
○ - 94614-1	C - 41 - 5		
○ - 3160-09	C - 48		
○ - 355C	D - 22		
○ - 355D	D - 23		
○ - MZ5010C	D - 81		
○ - Cable	C - 40 - 11		
○ - Cable	C - 40 - 12		

Environmental conditions:

Temperature: _____ °C Humidity: _____ %

Antenna-Conducted Power Measurement

was performed in the frequency range of 30 MHz - 1000 MHz, in the following test site.

Test location:

KITA-KANSAI Testing Center

7-7, Ishimaru, 1-Chome, Mino-Shi, Osaka, 562-0027, Japan

● - Shielded room

○ - Anechoic chamber

KAMEOKA EMC Branch

9-1, Ozaki, Inukanno, Nishibetsuin-Cho, Kameoka-Shi, Kyoto, 621-0126, Japan

○ - Shielded room

Used test instruments:

Model No.	Device ID	Last Cal. Date	Cal. Interval
● - ESCS 30	A - 9	September, 2002	1 Year
○ - 8566B	A - 13		
○ - 8593A	A - 15		
○ - ESV	A - 6		
○ - LSG-221	B - 15		
○ - 216/1	B - 16		
○ - MP614A	D - 56		
○ - 12B50/75	D - 55		
○ - 12N50/75B	D - 72		
● - 2-10	D - 40		
○ - 1506A	D - 21	June, 2002	1 Year
● - Cable	C - 40 - 9	June, 2002	1 Year

Environmental conditions:

Temperature: 24 °C Humidity: 38 %

38dB Rejection Test (§15.121(b))

was performed in the following test site.

Test location:

KITA-KANSAI Testing Center

7-7, Ishimaru, 1-Chome, Mino-Shi, Osaka, 562-0027, Japan

● - Shielded room

○ - Anechoic chamber

KAMEOKA EMC Branch

9-1, Ozaki, Inukanno, Nishibetsuin-Cho, Kameoka-Shi, Kyoto, 621-0126, Japan

○ - Shielded room

Used test instruments:

Model No.	Device ID	Last Cal. Date	Cal. Interval
○ - MG3681A	B - 3		
● - 6062A	B - 55	May, 2002	1 Year
○ - E-2001B	N47099003		
○ - 339A			

Environmental conditions:

Temperature: 24 °C Humidity: 38 %

CONFIGURATION OF EUT

The Equipment Under Test (EUT) consists of:

Description	Applicant (Manufacturer)	Model No. (Serial No.)	FCC ID
HF/VHF Transceiver	ICOM Incorporated (ICOM Incorporated)	IC-703 (00019)	AFJ IC-703

The measurement was carried out with the following equipment connected:

Description	Grantee/Distributor	Model No. (Serial No.)	FCC ID
DC Power Supply	ICOM Incorporated	IC-5P (1793)	N/A
Antenna Tuner	ICOM Incorporated	AH-4 (0026)	N/A
CI-V Level Converter	ICOM Incorporated	CT-17 (08434)	N/A
External Speaker	ICOM Incorporated	SP-7 (--)	N/A
Microphone	ICOM Incorporated	HM-103 (--)	N/A
Microphone	ICOM Incorporated	SM-20 (--)	N/A
Headhone	AIWA Incorporated	HP-XF215 (--)	N/A

Type of Interface Cable(s) and the AC Power Cord used with the EUT:

	Description	Port	Shielded Cable	Shell Material	Ferrite Core	Cable Length
1	Main Unit	--	YES	--	NO	5.0 m
	Front Controller	--		--		
2	Main Unit	PHONES	NO	--	NO	3.0 m
	Headphone	--		--		
3	Main Unit	MICROPHONE(Front)	YES	Metal	NO	0.4 m
	Microphone(HM-103)	--		--		
4	Main Unit	ANT	--	--	--	-- m
	50Ω termination	--		--		
5	Main Unit	DATA	NO	--	NO	1.0 m
	No termination	--		--		
6	Main Unit	ACC	NO	--	NO	1.0 m
	No termination	--		--		
7	Main Unit	EXT SP	NO	--	NO	1.0 m
	External Speaker	--		--		
8	Main Unit	REMOTE	NO	--	NO	1.4 m
	CI-V Level Converter	CI-V REMOTE(1)		--		
9	Main Unit	MIC(Rear)	YES	Metal	NO	1.2 m
	Microphone(SM-20)	--		--		
10	Main Unit	KEY	NO	--	NO	1.0 m
	No termination	--		--		
11	Main Unit	TUNER	NO	--	NO	4.3 m
	Antenna Tuner	--		--		

(Next on next page)

	Description	Port	Shielded Cable	Shell Material	Ferrite Core	Cable Length
12	Main Unit	GND	NO	--	NO	2.0 m
	--	--		--		
13	Main Unit	DC13.8V	NO	--	NO	3.0 m
	DC Power Supply	--		--		
14	AC Power Cord(DC Power Supply) 1φ 2-pin plug	--	NO	--	NO	1.6 m
15	DC Power Supply	GND	NO	--	NO	1.4 m
	--	--		--		

Operation - mode of the EUT:

1) Relation between receiving frequency and local frequency

No.	Receiving Frequency [MHz]	Local Frequency [MHz]	
		1st LO	2nd LO
1	0.030000 - 1.599999	64.458000 - 66.054999	64.0000
2	1.600000 - 1.999999	66.055000 - 66.454999	64.0000
3	2.000000 - 3.999999	66.455000 - 68.454999	64.0000
4	4.000000 - 7.999999	68.455000 - 72.454999	64.0000
5	8.000000 - 14.999999	72.455000 - 79.454999	64.0000
6	15.000000 - 21.999999	86.455000 - 94.454999	64.0000
7	22.000000 - 39.999999	94.455000 - 104.454999	64.0000
8	30.000000 - 60.000000	104.455000 - 124.455000	64.0000

2) Respective Intermediate Frequency : 1st IF / 64.455 MHz (Upper)
2nd IF / 0.455 MHz (Lower)

3) Type of Antenna Terminal : M-Type 50 Ω (Unbalanced)

4) Receiving mode : USB, LSB, CW, RTTY, AM, FM

Test system:

The port of the EUT are shown as follows:

Front Controller : HEADPHONE JACK[PHONES], MICROPHONE CONNECTOR
Main Unit : ANTENNA CONNECTOR[ANT], GROUND TERMINAL[GND], DATA SOCKET[DATA]
ACCESSORY SOCKET[ACC], EXTERNAL SPEAKER JACK[EXT SP]
CI-V REMOTE CONTROL JACK[REMOTE], MICROPHONE[MIC]
ELECTRONIC KEYS[KEY], TUNER CONTROL SOCKET[TUNER]
DC POWER SOCKET[DC13.8V]

Special accessories:

None

The used (generated) frequencies in the EUT:

MAIN CPU : 9.8304 MHz
DSP UNIT(SUB CPU) : 9.8304 MHz
Main Ref. : 16.384 MHz

EUT Modification

- - No modifications were conducted by JQA to achieve compliance to applied levels.
- - To achieve compliance to applied levels, the following change(s) were made by JQA during the compliance test.

— The modification(s) will be implemented in all production models of this equipment. —

Applicant	:	N/A	Date	:	N/A
Typed Name	:	N/A	Position	:	N/A

Responsible Party

— Responsible Party of Test Item(Product) —

Responsible party :

Contact Person :

Signatory

Deviation from Standard

- - No deviations from the standard described in page 3.
- - The following deviations were employed from the standard described in page 3.

TEST RESULTS

AC Powerline Conducted Emission 150 kHz - 30 MHz

The requirements are	○ - Passed	○ - Not Passed
Min. limit margin	_____ dB	at _____ MHz
Max. limit exceeding	_____ dB	at _____ MHz
Uncertainty of measurement results	_____ dB(2 σ)	_____ dB(2 σ)

Remarks: Not Applicable

Electromagnetic Field Radiated Emission 30 MHz - 1000 MHz

The requirements are	● - Passed	○ - Not Passed
Min. limit margin	<u>4.5</u> dB	at <u>64.0</u> MHz
Max. limit exceeding	_____ dB	at _____ MHz
Uncertainty of measurement results(30MHz - 1GHz)	<u>+4.1</u> dB(2 σ)	<u>- 4.2</u> dB(2 σ)

Remarks: _____

Antenna-Conducted Power 30 MHz - 1000 MHz

The requirements are	● - Passed	○ - Not Passed
Min. limit margin	<u>18.0</u> dB	at <u>522.275</u> MHz
Max. limit exceeding	_____ dB	at _____ MHz
Uncertainty of measurement results	<u>+ 2.3</u> dB(2 σ)	<u>- 2.3</u> dB(2 σ)

Remarks: _____

38dB Rejection Test (§15.121(b))

The requirements are

● - **Passed** ○ - **Not Passed**

Min. limit margin - dB at - MHz

Max. limit exceeding dB at MHz

Uncertainty of measurement results - dB(2 σ) - dB(2 σ)

Remarks: No frequency of response was detected.

SUMMARY

GENERAL REMARKS :

The EUT was tested according to the requirements of FCC Rules and Regulations Part 15 Subpart A and B (August 20, 2002) under the test configuration, as shown in page 17.

The conclusion for the test items of which are required by the applied regulation is indicated under the final judgement.

FINAL JUDGEMENT :

The "as received" sample;

- - fulfill the test requirements of the regulation mentioned on page 3.
- - fulfill the test requirements of the regulation mentioned on page 3, but with certain qualifications.
- - doesn't fulfill the test regulation mentioned on page 3.

Begin of testing : February 25, 2003

End of testing : March 4, 2003

- JAPAN QUALITY ASSURANCE ORGANIZATION -

Approved by :



Akio Hosoda
Manager
EMC Div.
JQA KITA-KANSAI Testing Center

Issued by :



Shigeru Kinoshita
Deputy Manager
EMC Div.
JQA KITA-KANSAI Testing Center

Electromagnetic Field Radiated Emission Measurement

Scanning Receiver

Test Date: February 28, 2003
Temp.: 16 °C ; Humi.: 46 %

Test Date: March 3-4, 2003
Temp.: 16 °C ; Humi.: 46 %

Band 1

Tuning Range : 0.03000 MHz - 1.59999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Antenna Factor [dB(1/m)]	Corr. Factor [dB]	Meter Readings [dB(μV)]		Limits [dB(μV/m)]	Results [dB(μV/m)]		Margin [dB]	Remarks (Note 2)
				Hori.	Vert.		Hori.	Vert.		
0.030000	64.485000	7.3	1.1	6.0	16.0	40.0	14.4	24.4	+15.6	A
	128.970000	13.5	1.6	8.0	20.0	43.5	23.1	35.1	+ 8.4	A
	193.455000	16.4	2.0	< 0.0	< 0.0	43.5	< 18.4	< 18.4	> +25.1	A
	257.940000	17.6	2.3	< 0.0	1.0	46.0	< 19.9	20.9	+25.1	A
	322.425000	16.7	2.6	< -5.0	< -5.0	46.0	< 14.3	< 14.3	> +31.7	A
	386.910000	17.3	2.9	5.0	5.0	46.0	25.2	25.2	+20.8	A
	451.395000	18.4	3.2	2.0	5.0	46.0	23.6	26.6	+19.4	A
	515.880000	19.8	3.4	< -5.0	< -5.0	46.0	< 18.2	< 18.2	> +27.8	A
	580.365000	21.2	3.5	< -5.0	-2.0	46.0	< 19.7	22.7	+23.3	A
	644.850000	22.0	3.8	< -5.0	< 2.0	46.0	< 20.8	< 27.8	> +18.2	A
	709.335000	22.4	4.1	< -5.0	-1.0	46.0	< 21.5	25.5	+20.5	A
	773.820000	22.7	4.3	< -5.0	-1.0	46.0	< 22.0	26.0	+20.0	A
	838.305000	23.3	4.5	< -5.0	< -5.0	46.0	< 22.8	< 22.8	> +23.2	A
	902.790000	24.1	4.7	< -5.0	< -5.0	46.0	< 23.8	< 23.8	> +22.2	A
	967.275000	25.2	5.0	< -5.0	< -5.0	54.0	< 25.2	< 25.2	> +28.8	A
1.599999	66.054999	7.1	1.1	8.0	16.0	40.0	16.2	24.2	+15.8	A
	132.109998	13.7	1.6	6.0	18.0	43.5	21.3	33.3	+10.2	A
	198.164997	16.6	2.0	< 0.0	< 0.0	43.5	< 18.6	< 18.6	> +24.9	A
	264.219996	18.0	2.3	< 0.0	< 0.0	46.0	< 20.3	< 20.3	> +25.7	A
	330.274995	16.8	2.6	< -5.0	< -5.0	46.0	< 19.4	< 19.4	> +26.6	A
	396.329994	17.4	2.9	8.0	6.0	46.0	28.3	26.3	+17.7	A
	462.384993	18.6	3.2	2.0	2.0	46.0	23.8	23.8	+22.2	A
	528.439992	20.1	3.4	< -5.0	-2.0	46.0	< 18.5	21.5	+24.5	A
	594.494991	21.6	3.6	< -5.0	< -5.0	46.0	< 20.2	< 20.2	> +25.8	A
	660.549990	22.1	3.9	< -5.0	< -5.0	46.0	< 21.0	< 21.0	> +25.0	A
	726.604989	22.5	4.2	-1.0	-2.0	46.0	25.7	24.7	+20.3	A
	792.659988	22.8	4.4	< -5.0	< -5.0	46.0	< 22.2	< 22.2	> +23.8	A
	858.714987	23.5	4.6	< -5.0	< -5.0	46.0	< 23.1	< 23.1	> +22.9	A
	924.769986	24.4	4.8	< -5.0	< -5.0	46.0	< 24.2	< 24.2	> +21.8	A
	990.824985	25.6	5.1	< -5.0	< -5.0	54.0	< 25.7	< 25.7	> +28.3	A

Band 2

Tuning Range : 1.600000 MHz - 1.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Antenna Factor [dB(1/m)]	Corr. Factor [dB]	Meter Readings [dB(μV)]		Limits [dB(μV/m)]	Results [dB(μV/m)]		Margin [dB]	Remarks (Note 2)
				Hori.	Vert.		Hori.	Vert.		
1.800000	66.255000	7.1	1.1	8.0	16.0	40.0	16.2	24.2	+15.8	A
	132.510000	13.8	1.6	< 0.0	17.0	43.5	< 15.4	32.4	+11.1	A
	198.765000	16.6	2.0	< 0.0	< 0.0	43.5	< 18.6	< 18.6	> +24.9	A
	265.020000	18.0	2.3	< 0.0	< 0.0	46.0	< 20.3	< 20.3	> +25.7	A
	331.275000	16.8	2.7	< -5.0	< -5.0	46.0	< 14.5	< 14.5	> +31.5	A
	397.530000	17.4	2.9	7.0	6.0	46.0	27.3	26.3	+18.7	A
	463.785000	18.7	3.2	2.0	1.0	46.0	23.9	22.9	+22.1	A
	530.040000	20.1	3.4	< -5.0	< -5.0	46.0	< 18.5	< 18.5	> +27.5	A
	596.295000	21.6	3.6	< -5.0	< -5.0	46.0	< 20.2	< 20.2	> +25.8	A
	662.550000	22.1	3.9	< -5.0	< -5.0	46.0	< 21.0	< 21.0	> +25.0	A
	728.805000	22.5	4.1	0.0	-1.0	46.0	26.6	25.6	+19.4	A
	795.060000	22.8	4.4	< -5.0	< -5.0	46.0	< 22.2	< 22.2	> +23.8	A
	861.315000	23.5	4.6	< -5.0	< -5.0	46.0	< 23.1	< 23.1	> +22.9	A
	927.570000	24.5	4.8	< -5.0	< -5.0	46.0	< 24.3	< 24.3	> +21.7	A
	993.825000	25.7	5.1	< -5.0	< -5.0	54.0	< 25.8	< 25.8	> +28.2	A

Band 3

Tuning Range : 2.00000 MHz - 3.99999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Antenna Factor [dB(1/m)]	Corr. Factor [dB]	Meter Readings [dB(μV)]		Limits [dB(μV/m)]	Results [dB(μV/m)]		Margin [dB]	Remarks (Note 2)
				Hori.	Vert.		Hori.	Vert.		
2.000000	66.455000	7.0	1.1	9.0	15.0	40.0	17.1	23.1	+16.9	A
	132.910000	13.8	1.6	5.0	17.0	43.5	20.4	32.4	+11.1	A
	199.365000	16.6	2.0	< 0.0	< 0.0	43.5	< 18.6	< 18.6	> +24.9	A
	265.820000	18.0	2.3	< 0.0	< 0.0	46.0	< 20.3	< 20.3	> +25.7	A
	332.275000	16.8	2.7	< -5.0	< -5.0	46.0	< 14.5	< 14.5	> +31.5	A
	398.730000	17.4	3.0	7.0	6.0	46.0	27.4	26.4	+18.6	A
	465.185000	18.7	3.2	1.0	2.0	46.0	22.9	23.9	+22.1	A
	531.640000	20.1	3.4	< -5.0	< -5.0	46.0	< 18.5	< 18.5	> +27.5	A
	598.095000	21.7	3.6	< -5.0	< -5.0	46.0	< 20.3	< 20.3	> +25.7	A
	664.550000	22.2	3.9	< -5.0	< -5.0	46.0	< 21.1	< 21.1	> +24.9	A
	731.005000	22.5	4.2	-1.0	-2.0	46.0	25.7	24.7	+20.3	A
	797.460000	22.8	4.4	< -5.0	< -5.0	46.0	< 22.2	< 22.2	> +23.8	A
	863.915000	23.6	4.6	< -5.0	< -5.0	46.0	< 23.2	< 23.2	> +22.8	A
	930.370000	24.5	4.9	< -5.0	< -5.0	46.0	< 24.4	< 24.4	> +21.6	A
	996.825000	25.7	5.1	< -5.0	< -5.0	54.0	< 25.8	< 25.8	> +28.2	A
3.999999	68.454999	6.7	1.1	11.0	15.0	40.0	18.8	22.8	+17.2	A
	136.909998	14.0	1.6	5.0	15.0	43.5	20.6	30.6	+12.9	A
	205.364997	16.7	2.0	< 0.0	< 0.0	43.5	< 18.7	< 18.7	> +24.8	A
	273.819996	18.5	2.4	< 0.0	< 0.0	46.0	< 20.9	< 20.9	> +25.1	A
	342.274995	16.9	2.7	< -5.0	-3.0	46.0	< 14.6	16.6	+29.4	A
	410.729994	17.6	3.0	7.0	6.0	46.0	27.6	26.6	+18.4	A
	479.184993	19.0	3.3	0.0	0.0	46.0	22.3	22.3	+23.7	A
	547.639992	20.5	3.4	< -5.0	< -5.0	46.0	< 18.9	< 18.9	> +27.1	A
	616.094991	21.8	3.7	< -5.0	< -5.0	46.0	< 20.5	< 20.5	> +25.5	A
	684.549990	22.3	4.0	< -5.0	< -5.0	46.0	< 21.3	< 21.3	> +24.7	A
	753.004989	22.6	4.2	2.0	1.0	46.0	28.8	27.8	+17.2	A
	821.459988	23.1	4.5	< -5.0	< -5.0	46.0	< 22.6	< 22.6	> +23.4	A
	889.914987	23.9	4.7	< -5.0	< -5.0	46.0	< 23.6	< 23.6	> +22.4	A
	958.369986	25.1	5.0	< -5.0	< -5.0	46.0	< 25.1	< 25.1	> +20.9	A

Band 4

Tuning Range : 4.00000 MHz - 7.99999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Antenna Factor [dB(1/m)]	Corr. Factor [dB]	Meter Readings [dB(μV)]		Limits [dB(μV/m)]	Results [dB(μV/m)]		Margin [dB]	Remarks (Note 2)
				Hori.	Vert.		Hori.	Vert.		
4.000000	68.455000	6.7	1.1	11.0	15.0	40.0	18.8	22.8	+17.2	A
	136.910000	14.0	1.6	5.0	15.0	43.5	20.6	30.6	+12.9	A
	205.365000	16.7	2.0	< 0.0	< 0.0	43.5	< 18.7	< 18.7	> +24.8	A
	273.820000	18.5	2.4	< 0.0	< 0.0	46.0	< 20.9	< 20.9	> +25.1	A
	342.275000	16.9	2.7	< -5.0	< -5.0	46.0	< 14.6	< 14.6	> +31.4	A
	410.730000	17.6	3.0	7.0	6.0	46.0	27.6	26.6	+18.4	A
	479.185000	19.0	3.3	0.0	0.0	46.0	22.3	22.3	+23.7	A
	547.640000	20.5	3.4	< -5.0	< -5.0	46.0	< 18.9	< 18.9	> +27.1	A
	616.095000	21.8	3.7	< -5.0	< -5.0	46.0	< 20.5	< 20.5	> +25.5	A
	684.550000	22.3	4.0	< -5.0	< -5.0	46.0	< 21.3	< 21.3	> +24.7	A
	753.005000	22.6	4.2	2.0	1.0	46.0	28.8	27.8	+17.2	A
	821.460000	23.1	4.5	< -5.0	< -5.0	46.0	< 22.6	< 22.6	> +23.4	A
	889.915000	23.9	4.7	< -5.0	< -5.0	46.0	< 23.6	< 23.6	> +22.4	A
	958.370000	25.1	5.0	< -5.0	< -5.0	46.0	< 25.1	< 25.1	> +20.9	A
7.999999	72.454999	6.5	1.1	16.0	17.0	40.0	23.6	24.6	+15.4	A
	144.909998	14.4	1.7	4.0	11.0	43.5	20.1	27.1	+16.4	A
	217.364997	16.8	2.1	< 0.0	< 0.0	46.0	< 18.9	< 18.9	> +27.1	A
	289.819996	19.5	2.4	< 0.0	< 0.0	46.0	< 21.9	< 21.9	> +24.1	A
	362.274995	17.1	2.8	2.0	1.0	46.0	21.9	20.9	+24.1	A
	434.729994	18.1	3.1	7.0	5.0	46.0	28.2	26.2	+17.8	A
	507.184993	19.6	3.4	7.0	8.0	46.0	30.0	31.0	+15.0	A
	579.639992	21.2	3.5	< -5.0	< -5.0	46.0	< 19.7	< 19.7	> +26.3	A
	652.094991	22.1	3.8	< -5.0	< -5.0	46.0	< 20.9	< 20.9	> +25.1	A
	724.549990	22.5	4.2	0.0	-1.0	46.0	26.7	25.7	+19.3	A
	797.004989	22.8	4.4	< -5.0	< -5.0	46.0	< 22.2	< 22.2	> +23.8	A
	869.459988	23.6	4.7	< -5.0	< -5.0	46.0	< 23.3	< 23.3	> +22.7	A
	941.914987	24.8	4.9	< -5.0	< -5.0	46.0	< 24.7	< 24.7	> +21.3	A

Band 5

Tuning Range : 8.00000 MHz - 14.99999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Antenna Factor [dB(1/m)]	Corr. Factor [dB]	Meter Readings [dB(μV)]		Limits [dB(μV/m)]	Results [dB(μV/m)]		Margin [dB]	Remarks (Note 2)
				Hori.	Vert.		Hori.	Vert.		
8.000000	72.455000	6.5	1.1	16.0	17.0	40.0	23.6	24.6	+15.4	A
	144.910000	14.4	1.7	5.0	11.0	43.5	21.1	27.1	+16.4	A
	217.365000	16.8	2.1	< 0.0	< 0.0	46.0	< 18.9	< 18.9	> +27.1	A
	289.820000	19.5	2.4	< 0.0	< 0.0	46.0	< 21.9	< 21.9	> +24.1	A
	362.275000	17.1	2.8	3.0	1.0	46.0	22.9	20.9	+23.1	A
	434.730000	18.1	3.1	8.0	5.0	46.0	29.2	26.2	+16.8	A
	507.185000	19.6	3.4	7.0	8.0	46.0	30.0	31.0	+15.0	A
	579.640000	21.2	3.5	< -5.0	< -5.0	46.0	< 19.7	< 19.7	> +26.3	A
	652.095000	22.1	3.8	< -5.0	< -5.0	46.0	< 20.9	< 20.9	> +25.1	A
	724.550000	22.5	4.2	0.0	-1.0	46.0	26.7	25.7	+19.3	A
	797.005000	22.8	4.4	< -5.0	< -5.0	46.0	< 22.2	< 22.2	> +23.8	A
	869.460000	23.6	4.7	< -5.0	< -5.0	46.0	< 23.3	< 23.3	> +22.7	A
	941.915000	24.8	4.9	< -5.0	< -5.0	46.0	< 24.7	< 24.7	> +21.3	A
14.999999	79.454999	6.3	1.2	20.0	19.0	40.0	27.5	26.5	+12.5	A
	158.909998	15.1	1.8	4.0	8.0	43.5	20.9	24.9	+18.6	A
	238.364997	17.0	2.2	6.0	3.0	46.0	25.2	22.2	+20.8	A
	317.819996	16.7	2.6	< 0.0	< 0.0	46.0	< 19.3	< 19.3	> +26.7	A
	397.274995	17.4	2.9	9.0	8.0	46.0	29.3	28.3	+16.7	A
	476.729994	18.9	3.3	-2.0	-1.0	46.0	20.2	21.2	+24.8	A
	556.184993	20.7	3.4	< -5.0	0.0	46.0	< 19.1	24.1	+21.9	A
	635.639992	21.9	3.8	< -5.0	< -5.0	46.0	< 20.7	< 20.7	> +25.3	A
	715.094991	22.5	4.1	2.0	-1.0	46.0	28.6	25.6	+17.4	A
	794.549990	22.8	4.4	< -5.0	< -5.0	46.0	< 22.2	< 22.2	> +23.8	A
	874.004989	23.7	4.7	< -5.0	< -5.0	46.0	< 23.4	< 23.4	> +22.6	A
	953.459988	25.0	4.9	< -5.0	< -5.0	46.0	< 24.9	< 24.9	> +21.1	A

Band 6

Tuning Range : 15.00000 MHz - 21.99999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Antenna Factor [dB(1/m)]	Corr. Factor [dB]	Meter Readings [dB(μV)]		Limits [dB(μV/m)]	Results [dB(μV/m)]		Margin [dB]	Remarks (Note 2)
				Hori.	Vert.		Hori.	Vert.		
15.000000	79.455000	6.3	1.2	20.0	20.0	40.0	27.5	27.5	+12.5	A
	158.910000	15.1	1.8	4.0	8.0	43.5	20.9	24.9	+18.6	A
	238.365000	17.0	2.2	8.0	7.0	46.0	27.2	26.2	+18.8	A
	317.820000	16.7	2.6	< -5.0	< -5.0	46.0	< 14.3	< 14.3	> +31.7	A
	397.275000	17.4	2.9	9.0	8.0	46.0	29.3	28.3	+16.7	A
	476.730000	18.9	3.3	-2.0	-2.0	46.0	20.2	20.2	+25.8	A
	556.185000	20.7	3.4	< -5.0	0.0	46.0	< 19.1	24.1	+21.9	A
	635.640000	21.9	3.8	< -5.0	< -5.0	46.0	< 20.7	< 20.7	> +25.3	A
	715.095000	22.5	4.1	2.0	1.0	46.0	28.6	27.6	+17.4	A
	794.550000	22.8	4.4	< -5.0	< -5.0	46.0	< 22.2	< 22.2	> +23.8	A
	874.005000	23.7	4.7	< -5.0	< -5.0	46.0	< 23.4	< 23.4	> +22.6	A
	953.460000	25.0	4.9	< -5.0	< -5.0	46.0	< 24.9	< 24.9	> +21.1	A
21.999999	86.454999	7.5	1.3	24.5	23.0	40.0	33.3	31.8	+ 6.7	A
	172.909998	15.8	1.8	3.0	-2.0	43.5	20.6	15.6	+22.9	A
	259.364997	17.7	2.3	2.0	5.0	46.0	22.0	25.0	+21.0	A
	345.819996	16.9	2.7	< -5.0	< -5.0	46.0	< 14.6	< 14.6	> +31.4	A
	432.274995	18.0	3.1	13.0	12.0	46.0	34.1	33.1	+11.9	A
	518.729994	19.8	3.4	< -5.0	< -5.0	46.0	< 18.2	< 18.2	> +27.8	A
	605.184993	21.7	3.6	0.0	1.0	46.0	25.3	26.3	+19.7	A
	691.639992	22.3	4.0	2.0	-1.0	46.0	28.3	25.3	+17.7	A
	778.094991	22.7	4.3	0.0	0.0	46.0	27.0	27.0	+19.0	A
	864.549990	23.6	4.6	< -5.0	< -5.0	46.0	< 23.2	< 23.2	> +22.8	A
	951.004989	24.9	4.9	< -5.0	< -5.0	46.0	< 24.8	< 24.8	> +21.2	A

Band 7

Tuning Range : 22.00000 MHz - 29.99999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Antenna Factor [dB(1/m)]	Corr. Factor [dB]	Meter Readings [dB(μV)]		Limits [dB(μV/m)]	Results [dB(μV/m)]		Margin [dB]	Remarks (Note 2)
				Hori.	Vert.		Hori.	Vert.		
22.000000	86.455000	7.5	1.3	24.5	23.0	40.0	33.3	31.8	+ 6.7	A
	172.910000	15.8	1.8	3.0	-2.0	43.5	20.6	15.6	+22.9	A
	259.365000	17.7	2.3	2.0	4.0	46.0	22.0	24.0	+22.0	A
	345.820000	16.9	2.7	< -5.0	< -5.0	46.0	< 14.6	< 14.6	> +31.4	A
	432.275000	18.0	3.1	14.0	12.0	46.0	35.1	33.1	+10.9	A
	518.730000	19.8	3.4	< -5.0	< -5.0	46.0	< 18.2	< 18.2	> +27.8	A
	605.185000	21.7	3.6	0.0	1.0	46.0	25.3	26.3	+19.7	A
	691.640000	22.3	4.0	2.0	-1.0	46.0	28.3	25.3	+17.7	A
	778.095000	22.7	4.3	1.0	0.0	46.0	28.0	27.0	+18.0	A
	864.550000	23.6	4.6	< -5.0	< -5.0	46.0	< 23.2	< 23.2	> +22.8	A
	951.005000	24.9	4.9	< -5.0	< -5.0	46.0	< 24.8	< 24.8	> +21.2	A
26.000000	90.455000	8.2	1.3	23.0	23.0	43.5	32.5	32.5	+11.0	A
	180.910000	16.1	1.9	< 0.0	< 0.0	43.5	< 18.0	< 18.0	> +25.5	A
	271.365000	18.4	2.4	0.0	1.0	46.0	20.8	21.8	+24.2	A
	361.820000	17.1	2.8	< -5.0	< -5.0	46.0	< 14.9	< 14.9	> +31.1	A
	452.275000	18.4	3.2	14.0	13.0	46.0	35.6	34.6	+10.4	A
	542.730000	20.4	3.4	< -5.0	< -5.0	46.0	< 18.8	< 18.8	> +27.2	A
	633.185000	21.9	3.7	7.0	8.0	46.0	32.6	33.6	+12.4	A
	723.640000	22.5	4.2	6.0	5.0	46.0	32.7	31.7	+13.3	A
	814.095000	23.0	4.5	-2.0	< 2.0	46.0	25.5	< 29.5	> +16.5	A
	904.550000	24.1	4.8	< -5.0	< -5.0	46.0	< 23.9	< 23.9	> +22.1	A
	995.005000	25.7	5.1	< -5.0	< -5.0	54.0	< 25.8	< 25.8	> +28.2	A
29.999999	94.454999	9.0	1.3	17.0	19.0	43.5	27.3	29.3	+14.2	A
	188.909998	16.3	1.9	3.0	4.0	43.5	21.2	22.2	+21.3	A
	283.364997	19.1	2.4	8.0	6.0	46.0	29.5	27.5	+16.5	A
	377.819996	17.2	2.9	5.0	4.0	46.0	25.1	24.1	+20.9	A
	472.274995	18.8	3.2	8.0	8.0	46.0	30.0	30.0	+16.0	A
	566.729994	20.9	3.5	< -5.0	< -5.0	46.0	< 19.4	< 19.4	> +26.6	A
	661.184993	22.1	3.9	3.0	0.0	46.0	29.0	26.0	+17.0	A
	755.639992	22.6	4.3	< -5.0	-2.0	46.0	< 21.9	24.9	+21.1	A
	850.094991	23.4	4.6	-2.0	-1.0	46.0	26.0	27.0	+19.0	A
	944.549990	24.8	4.9	< -5.0	< -5.0	46.0	< 24.7	< 24.7	> +21.3	A

Band 8

Tuning Range : 30.00000 MHz - 39.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Antenna Factor [dB(1/m)]	Corr. Factor [dB]	Meter Readings [dB(μV)]		Limits [dB(μV/m)]	Results [dB(μV/m)]		Margin [dB]	Remarks (Note 2)
				Hori.	Vert.		Hori.	Vert.		
30.000000	94.455000	9.0	1.3	20.0	20.0	43.5	30.3	30.3	+13.2	A
	188.910000	16.3	1.9	< 0.0	< 0.0	43.5	< 18.2	< 18.2	> +25.3	A
	283.365000	19.1	2.4	3.0	2.0	46.0	24.5	23.5	+21.5	A
	377.820000	17.2	2.9	< -5.0	< -5.0	46.0	< 15.1	< 15.1	> +30.9	A
	472.275000	18.8	3.2	10.0	9.0	46.0	32.0	31.0	+14.0	A
	566.730000	20.9	3.5	< -5.0	< -5.0	46.0	< 19.4	< 19.4	> +26.6	A
	661.185000	22.1	3.9	6.0	4.0	46.0	32.0	30.0	+14.0	A
	755.640000	22.6	4.3	2.0	3.0	46.0	28.9	29.9	+16.1	A
	850.095000	23.4	4.6	< -5.0	< -5.0	46.0	< 23.0	< 23.0	> +23.0	A
	944.550000	24.8	4.9	< -5.0	< -5.0	46.0	< 24.7	< 24.7	> +21.3	A
35.000000	99.455000	10.0	1.4	< 19.0	19.0	43.5	< 30.4	30.4	+13.1	A
	198.910000	16.6	2.0	< 0.0	< 0.0	43.5	< 18.6	< 18.6	> +24.9	A
	298.365000	20.0	2.5	4.0	1.0	46.0	26.5	23.5	+19.5	A
	397.820000	17.4	2.9	< -5.0	2.0	46.0	< 15.3	22.3	+23.7	A
	497.275000	19.3	3.3	14.0	15.0	46.0	36.6	37.6	+ 8.4	A
	596.730000	21.6	3.6	< -5.0	< -5.0	46.0	< 20.2	< 20.2	> +25.8	A
	696.185000	22.4	4.0	3.0	1.0	46.0	29.4	27.4	+16.6	A
	795.640000	22.8	4.4	< -5.0	-2.0	46.0	< 22.2	25.2	+20.8	A
	895.095000	23.9	4.7	< -5.0	2.0	46.0	< 23.6	30.6	+15.4	A
	994.550000	25.7	5.1	< -5.0	-2.0	54.0	< 25.8	28.8	+25.2	A
39.999999	104.454999	10.7	1.4	19.0	17.0	43.5	31.1	29.1	+12.4	A
	208.909998	16.7	2.0	1.0	< 0.0	43.5	19.7	< 18.7	+23.8	A
	313.364997	16.6	2.6	12.0	7.0	46.0	31.2	26.2	+14.8	A
	417.819996	17.8	3.0	4.0	6.0	46.0	24.8	26.8	+19.2	A
	522.274995	19.9	3.4	5.0	5.0	46.0	28.3	28.3	+17.7	A
	626.729994	21.9	3.7	< -5.0	< -5.0	46.0	< 20.6	< 20.6	> +25.4	A
	731.184993	22.5	4.2	8.0	7.0	46.0	34.7	33.7	+11.3	A
	835.639992	23.2	4.5	< -5.0	< -5.0	46.0	< 22.7	< 22.7	> +23.3	A
	940.094991	24.7	4.9	1.0	-2.0	46.0	30.6	27.6	+15.4	A

Band 9

Tuning Range : 40.00000 MHz - 60.00000 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Antenna Factor [dB(1/m)]	Corr. Factor [dB]	Meter Readings [dB(μV)]		Limits [dB(μV/m)]	Results [dB(μV/m)]		Margin [dB]	Remarks (Note 2)
				Hori.	Vert.		Hori.	Vert.		
40.000000	104.455000	10.7	1.4	20.0	18.0	43.5	32.1	30.1	+11.4	A
	208.910000	16.7	2.0	3.0	< 0.0	43.5	21.7	< 18.7	+21.8	A
	313.365000	16.6	2.6	12.0	7.0	46.0	31.2	26.2	+14.8	A
	417.820000	17.8	3.0	4.0	6.0	46.0	24.8	26.8	+19.2	A
	522.275000	19.9	3.4	6.0	6.0	46.0	29.3	29.3	+16.7	A
	626.730000	21.9	3.7	< -5.0	< -5.0	46.0	< 20.6	< 20.6	> +25.4	A
	731.185000	22.5	4.2	8.0	7.0	46.0	34.7	33.7	+11.3	A
	835.640000	23.2	4.5	< -5.0	< -5.0	46.0	< 22.7	< 22.7	> +23.3	A
	940.095000	24.7	4.9	1.0	-1.0	46.0	30.6	28.6	+15.4	A
50.000000	114.455000	12.2	1.5	17.0	14.0	43.5	30.7	27.7	+12.8	A
	228.910000	16.9	2.1	7.0	< 0.0	46.0	26.0	< 19.0	+20.0	A
	343.365000	16.9	2.7	3.0	4.0	46.0	22.6	23.6	+22.4	A
	457.820000	18.6	3.2	< -5.0	< 7.0	46.0	< 16.8	< 28.8	> +17.2	A
	572.275000	21.1	3.5	5.0	8.0	46.0	29.6	32.6	+13.4	A
	686.730000	22.3	4.0	< -5.0	< -5.0	46.0	< 21.3	< 21.3	> +24.7	A
	801.185000	22.8	4.4	7.0	10.0	46.0	34.2	37.2	+ 8.8	A
	915.640000	24.3	4.8	< -5.0	< -5.0	46.0	< 24.1	< 24.1	> +21.9	A
60.000000	124.455000	13.3	1.5	16.0	18.0	43.5	30.8	32.8	+10.7	A
	248.910000	17.1	2.2	6.0	2.0	46.0	25.3	21.3	+20.7	A
	373.365000	17.2	2.8	5.0	8.0	46.0	25.0	28.0	+18.0	A
	497.820000	19.4	3.3	-1.0	-1.0	46.0	21.7	21.7	+24.3	A
	622.275000	21.9	3.7	< -5.0	-2.0	46.0	< 20.6	23.6	+22.4	A
	746.730000	22.6	4.2	10.0	11.0	46.0	36.8	37.8	+ 8.2	A
	871.185000	23.7	4.7	4.0	< 3.0	46.0	32.4	< 31.4	+13.6	A
	995.640000	25.7	5.1	0.0	2.0	54.0	30.8	32.8	+21.2	A

Other Disturbance

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Antenna Factor [dB(1/m)]	Corr. Factor [dB]	Meter Readings [dB(μV)]		Limits [dB(μV/m)]	Results [dB(μV/m)]		Margin [dB]	Remarks (Note 2)
				Hori.	Vert.		Hori.	Vert.		
30.000000	64.0	7.4	1.1	13.0	27.0	40.0	21.5	35.5	+ 4.5	A
	128.0	13.5	1.6	< 0.0	4.0	43.5	< 15.1	19.1	+24.4	A
	192.0	16.4	1.9	3.0	11.0	43.5	21.3	29.3	+14.2	A
	256.0	17.5	2.3	< 0.0	< 0.0	46.0	< 19.8	< 19.8	> +26.2	A
	320.0	16.7	2.6	< -5.0	< -5.0	46.0	< 14.3	< 14.3	> +31.7	A
	384.0	17.3	2.9	< -5.0	< -5.0	46.0	< 15.2	< 15.2	> +30.8	A
	448.0	18.4	3.2	< -5.0	< -5.0	46.0	< 16.6	< 16.6	> +29.4	A
	512.0	19.7	3.4	< -5.0	< -5.0	46.0	< 18.1	< 18.1	> +27.9	A

Sample of calculated result at 64.0 MHz, as the Minimum Margin point:

Antenna Factor	=	7.4 dB(1/m)
Corr. Factor	=	1.1 dB
+ Meter Reading	=	27.0 dB(μV)
Result	=	35.5 dB(μV/m)

Minimum Margin : 40.0 - 35.5 = 4.5(dB)

The point shown on "___" is the Minimum Margin Point.

Note 1:

- 1)The highest frequency generated or used in the EUT :16.384 MHz
- 2)The highest local frequency generated in the EUT : 124.455 MHz
- 3)The upper frequency of measurement range : 1000 MHz
- 4)Corr. Factor [dB] (below 1 GHz) = Cable Loss [dB]
Corr. Factor (dB) (above 1 GHz) = Cable Loss(dB) + Pad Attenuator(dB) - Amp. Gain(dB)

Remarks:

Note 2	Detector Function	IF Bandwidth
A	CISPR QP	120 kHz
B	Peak	1 MHz
C	Average	1 MHz

Tester : Yuzo Tanaka

Antenna-Conducted Power Measurement Scanning Receiver

Test Date: February 25, 2003
 Temp.: 24 °C ; Humi.: 38 %

Band 1							
Tuning range: 0.030000 MHz - 1.599999 MHz							
Frequency to which tuned [MHz]	Measured Frequency [MHz]	Attenuation Pad Loss [dB]	Meter Readings [dB(μV)]	Limits at 50Ω [dB(μV)]	Results [dB(μV)]	Margin [dB]	Remarks (Note 2)
0.030000	64.485000	10.0	12.0	50.0	22.0	+28.0	A
	128.970000	10.0	10.0	50.0	20.0	+30.0	A
	193.455000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	257.940000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	322.425000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	386.910000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	451.395000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	515.880000	10.0	10.0	50.0	20.0	+30.0	A
	580.365000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	644.850000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	709.335000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	773.820000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	838.305000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	902.790000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	967.275000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
1.599999	66.054999	10.0	11.0	50.0	21.0	+29.0	A
	132.109998	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	198.164997	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	264.219996	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	330.274995	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	396.329994	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	462.384993	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	528.439992	10.0	14.0	50.0	24.0	+26.0	A
	594.494991	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	660.549990	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	726.604989	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	792.659988	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	858.714987	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	924.769986	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	990.824985	10.0	< 10.0	50.0	< 20.0	> +30.0	A

Band 2

Tuning range: 1.600000 MHz - 1.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Attenuation Pad Loss [dB]	Meter Readings [dB(μV)]	Limits at 50Ω [dB(μV)]	Results [dB(μV)]	Margin [dB]	Remarks (Note 2)
1.800000	66.255000	10.0	11.0	50.0	21.0	+29.0	A
	132.510000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	198.765000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	265.020000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	331.275000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	397.530000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	463.785000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	530.040000	10.0	14.5	50.0	24.5	+25.5	A
	596.295000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	662.550000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	728.805000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	795.060000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	861.315000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	927.570000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	993.825000	10.0	< 10.0	50.0	< 20.0	> +30.0	A

Band 3							
Tuning range: 2.000000 MHz - 3.999999 MHz							
Frequency to which tuned [MHz]	Measured Frequency [MHz]	Attenuation Pad Loss [dB]	Meter Readings [dB(μV)]	Limits at 50Ω [dB(μV)]	Results [dB(μV)]	Margin [dB]	Remarks (Note 2)
2.000000	66.455000	10.0	13.0	50.0	23.0	+27.0	A
	132.910000	10.0	11.0	50.0	21.0	+29.0	A
	199.365000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	265.820000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	332.275000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	398.730000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	465.185000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	531.640000	10.0	16.0	50.0	26.0	+24.0	A
	598.095000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	664.550000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	731.005000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	797.460000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	863.915000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	930.370000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	996.825000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
3.999999	68.454999	10.0	13.0	50.0	23.0	+27.0	A
	136.909998	10.0	11.0	50.0	21.0	+29.0	A
	205.364997	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	273.819996	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	342.274995	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	410.729994	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	479.184993	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	547.639992	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	616.094991	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	684.549990	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	753.004989	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	821.459988	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	889.914987	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	958.369986	10.0	< 10.0	50.0	< 20.0	> +30.0	A

Band 4

Tuning range: 4.000000 MHz - 7.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Attenuation Pad Loss [dB]	Meter Readings [dB(μV)]	Limits at 50Ω [dB(μV)]	Results [dB(μV)]	Margin [dB]	Remarks (Note 2)
4.000000	68.455000	10.0	11.0	50.0	21.0	+29.0	A
	136.910000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	205.365000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	273.820000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	342.275000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	410.730000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	479.185000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	547.640000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	616.095000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	684.550000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	753.005000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	821.460000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	889.915000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	958.370000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
7.999999	72.454999	10.0	12.0	50.0	22.0	+28.0	A
	144.909998	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	217.364997	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	289.819996	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	362.274995	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	434.729994	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	507.184993	10.0	12.0	50.0	22.0	+28.0	A
	579.639992	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	652.094991	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	724.549990	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	797.004989	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	869.459988	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	941.914987	10.0	< 10.0	50.0	< 20.0	> +30.0	A

Band 5

Tuning range: 8.000000 MHz - 14.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Attenuation Pad Loss [dB]	Meter Readings [dB(μV)]	Limits at 50Ω [dB(μV)]	Results [dB(μV)]	Margin [dB]	Remarks (Note 2)
8.000000	72.455000	10.0	13.0	50.0	23.0	+27.0	A
	144.910000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	217.365000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	289.820000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	362.275000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	434.730000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	507.185000	10.0	12.0	50.0	22.0	+28.0	A
	579.640000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	652.095000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	724.550000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	797.005000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	869.460000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	941.915000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
14.999999	79.454999	10.0	14.0	50.0	24.0	+26.0	A
	158.909998	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	238.364997	10.0	11.0	50.0	21.0	+29.0	A
	317.819996	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	397.274995	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	476.729994	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	556.184993	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	635.639992	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	715.094991	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	794.549990	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	874.004989	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	953.459988	10.0	< 10.0	50.0	< 20.0	> +30.0	A

Band 6

Tuning range: 15.000000 MHz - 21.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Attenuation Pad Loss [dB]	Meter Readings [dB(μ V)]	Limits at 50 Ω [dB(μ V)]	Results [dB(μ V)]	Margin [dB]	Remarks (Note 2)
15.000000	79.455000	10.0	15.5	50.0	25.5	+24.5	A
	158.910000	10.0	12.0	50.0	22.0	+28.0	A
	238.365000	10.0	11.0	50.0	21.0	+29.0	A
	317.820000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	397.275000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	476.730000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	556.185000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	635.640000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	715.095000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	794.550000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	874.005000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	953.460000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
21.999999	86.454999	10.0	17.0	50.0	27.0	+23.0	A
	172.909998	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	259.364997	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	345.819996	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	432.274995	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	518.729994	10.0	11.0	50.0	21.0	+29.0	A
	605.184993	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	691.639992	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	778.094991	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	864.549990	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	951.004989	10.0	< 10.0	50.0	< 20.0	> +30.0	A

Band 7

Tuning range: 22.000000 MHz - 29.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Attenuation Pad Loss [dB]	Meter Readings [dB(μV)]	Limits at 50Ω [dB(μV)]	Results [dB(μV)]	Margin [dB]	Remarks (Note 2)
22.000000	86.455000	10.0	16.0	50.0	26.0	+24.0	A
	172.910000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	259.365000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	345.820000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	432.275000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	518.730000	10.0	11.0	50.0	21.0	+29.0	A
	605.185000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	691.640000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	778.095000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	864.550000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	951.005000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
26.000000	90.455000	10.0	16.0	50.0	26.0	+24.0	A
	180.910000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	271.365000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	361.820000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	452.275000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	542.730000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	633.185000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	723.640000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	814.095000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	904.550000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	995.005000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
29.999999	94.454999	10.0	15.0	50.0	25.0	+25.0	A
	188.909998	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	283.364997	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	377.819996	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	472.274995	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	566.729994	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	661.184993	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	755.639992	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	850.094991	10.0	11.0	50.0	21.0	+29.0	A
	944.549990	10.0	< 10.0	50.0	< 20.0	> +30.0	A

Band 8

Tuning range: 30.000000 MHz - 39.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Attenuation Pad Loss [dB]	Meter Readings [dB(μV)]	Limits at 50Ω [dB(μV)]	Results [dB(μV)]	Margin [dB]	Remarks (Note 2)
30.000000	94.455000	10.0	13.0	50.0	23.0	+27.0	A
	188.910000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	283.365000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	377.820000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	472.275000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	566.730000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	661.185000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	755.640000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	850.095000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	944.550000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
35.000000	99.455000	10.0	13.0	50.0	23.0	+27.0	A
	198.910000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	298.365000	10.0	12.0	50.0	22.0	+28.0	A
	397.820000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	497.275000	10.0	13.0	50.0	23.0	+27.0	A
	596.730000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	696.185000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	795.640000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	895.095000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	994.550000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
39.999999	104.454999	10.0	12.0	50.0	22.0	+28.0	A
	208.909998	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	313.364997	10.0	15.0	50.0	25.0	+25.0	A
	417.819996	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	522.274995	10.0	22.0	50.0	32.0	+18.0	A
	626.729994	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	731.184993	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	835.639992	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	940.094991	10.0	< 10.0	50.0	< 20.0	> +30.0	A

Band 9

Tuning range: 40.000000 MHz - 60.000000 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Attenuation Pad Loss [dB]	Meter Readings [dB(μV)]	Limits at 50Ω [dB(μV)]	Results [dB(μV)]	Margin [dB]	Remarks (Note 2)
40.000000	104.455000	10.0	12.0	50.0	22.0	+28.0	A
	208.910000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	313.365000	10.0	14.0	50.0	24.0	+26.0	A
	417.820000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	522.275000	10.0	22.0	50.0	32.0	+18.0	A
	626.730000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	731.185000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	835.640000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	940.095000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
50.000000	114.455000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	228.910000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	343.365000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	457.820000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	572.275000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	686.730000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	801.185000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	915.640000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
60.000000	124.455000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	248.910000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	373.365000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	497.820000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	622.275000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	746.730000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	871.185000	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	995.640000	10.0	< 10.0	50.0	< 20.0	> +30.0	A

Other Disturbance

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Attenuation Pad Loss [dB]	Meter Readings [dB(μV)]	Limits at 50Ω [dB(μV)]	Results [dB(μV)]	Margin [dB]	Remarks (Note 2)
30.000000	30.0	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	50.0	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	100.0	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	300.0	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	500.0	10.0	< 10.0	50.0	< 20.0	> +30.0	A
	1000.0	10.0	< 10.0	50.0	< 20.0	> +30.0	A

Sample of calculated result at 522.275 MHz , as the Minimum Margin point:

Attenuation Pad Loss	=	10.0 dB
+) Meter Reading	=	22.0 dB(μV)
Result	=	32.0 dB(μV)

Minimum Margin : 50.0 - 32.0 = 18.0(dB)

The point shown on "___" is the Minimum Margin Point.

Conversion of applied limits (refer to §15.111(a))

$$50.0 \text{ [dB(μV)]} = 20\log\{\sqrt{2}[\text{nW}] \times 10^{-9} \times 50[\Omega] \times 10^6\}$$

Note 1:

- 1)The highest frequency generated or used in the EUT :16.384 MHz
- 2)The highest local frequency generated in the EUT : 124.455 MHz
- 3)The upper frequency of measurement range : 1000 MHz

Remarks:

Note 2	Detector Function	IF Bandwidth
A	CISPR QP	120 kHz
B	Peak	1 MHz
C	Average	1 MHz

Tester Signature : Shigeru Kinoshita

38dB Rejection Test for Base Band Scanning Receiver

Test Date: February 25, 2003
Temp.: 24 °C ; Humi.: 38 %

Injected Frequency [MHz]	Detected Frequency [MHz]	12dB SINAD Level at Injected Frequency [dBm]	12dB SINAD Level at Detected Frequency [dBm]	Rejection [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

Sample of calculated result at N/A MHz, as the Minimum Margin point:

$$\begin{array}{rcl} 12\text{dB SINAD Level at Detected Frequency} & = & \text{N/A dBm} \\ -) 12\text{dB SINAD Level at Injected Frequency} & = & \text{N/A dBm} \\ \hline \text{Rejection} & = & \text{N/A dB} \end{array}$$

Minimum Margin : N/A

The point shown on "____" is the Minimum Margin Point.

Tester : Shigeru Kinoshita