

***EMC* EMISSION - TEST REPORT**

JQA APPLICATION No. : KL80000599

Name of Product : 900MHz Cordless Telephone(Handset)

Model / Type No. : KX-TC1743

FCC ID : ACJ96NKX-TC1743

Applicant : Kyushu Matsushita Electric Co., Ltd.

Address : 1-62, 4-chome, Minoshima, Hakata-ku, Fukuoka 812-8531, Japan

Manufacturer : Kyushu Matsushita Electric Co., Ltd.

Address : 1-62, 4-chome, Minoshima, Hakata-ku, Fukuoka 812-8531, Japan

Receive date of EUT : February 9, 2001

Final Judgement : Passed

TEST RESULTS IN THIS REPORT are obtained in use of equipment that is traceable to Electro-technical Lab. of MITI Japan and Communications Research Lab. of PTT Japan.

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

JAPAN QUALITY ASSURANCE ORGANIZATION (JQA)
KITA-KANSAI TESTING CENTER
EMC DIVISION

DIRECTORY

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Conducted Emission	450 kHz - 30 MHz
	<u>N/A</u>
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TEST REGULATION

FCC Rules and Regulations Part 15 Subpart A and C (September 20, 2000)

- ☐ - Class A Digital Device
- ☐ - Class B Digital Device
- ☒ - Intentional Radiator(Sec.15.249)
- ☐ - Receiver

Test items:

- ☐ - Sec.15.203 : Antenna requirement
- ☒ - Sec.15.205 : Restricted bands of operation
- ☐ - Sec.15.207 : Conducted limits
- ☒ - Sec.15.209 : Radiated emission limits general requirements
- ☐ - Sec.15.214 : Cordless Telephones
- ☒ - Sec.15.249 : Operation within the bands 902-928MHz, 2400-2483.5MHz, 5725-5875MHz, and 24.0-24.25GHz

Test procedure:

Radiated emission test was 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 Open Site (3, 10 and 30 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

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.

Description of the Equipment Under Test (EUT):

- | | |
|---------------------------|---|
| 1) Name | : 900MHz Cordless Telephone(Handset) |
| 2) Model/Type No. | : KX-TC1743 |
| 3) Product Type | : Pre-Production (S/N: ---) |
| 4) Category | : Intentional Radiator |
| 5) EUT Authorization | : ○ - Verification ● - Certification ○ - D.o.C. |
| 6) Transmitting Frequency | : 902.713 MHz(1ch) - 927.289 MHz(109ch) |
| 7) Receiving Frequency | : 902.713 MHz(1ch) - 927.289 MHz(109ch) |
| 8) Emission Designations | : F1E |
| 9) Type of Antenna | : Permanently Monopole Antenna |
| 10) Power Rating | : DC 3.6V(Ni-Cd Battery Pack : PQP85AA3A) |

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: _____ %

Magnetic Field Radiated Emission Measurement

was performed in the frequency range of 9 kHz - 30 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

Used test instruments:

Model No.	Device ID	Last Cal. Date	Cal. Interval
○ - ESCS 30	A - 1		
○ - ESH 2	A - 2		
● - ESH 2	A - 3	December, 2000	1 Year
○ - HFH2-Z2	C - 2		
● - HFH2-Z2	C - 3	July, 2000	1 Year

Environmental conditions:

Temperature: 19 °C Humidity: 30 %

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 26, 2000

2) Interval : 1 Year

Used test instruments:

Model No.	Device ID	Last Cal. Date	Cal. Interval
○ - ESV/ESV-Z3	A - 7 / A - 17	December, 2000	1 Year
● - 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	November, 2000	1 Year
○ - KBA-511A	C - 12		
○ - KBA-611	C - 22		
● - KBA-511A	C - 13		
● - KBA-611	C - 19	November, 2000	1 Year
○ - KBA-511A	C - 11	November, 2000	1 Year
○ - KBA-611	C - 21		
○ - Cable	H - 1		
○ - Cable	H - 2		
○ - Cable	H - 5	November, 2000	1 Year
● - Cable	H - 6		
○ - Cable	H - 9		

Environmental conditions:

Temperature: 19 °C Humidity: 30 %

Electromagnetic Field Radiated Emission Measurement

was performed in horizontal and vertical polarization, in the frequency range of 1 GHz - 10 GHz, 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	August, 2000	1 Year
● - 8566B	A - 13	December, 2000	1 Year
○ - 8593A	A - 15		
○ - ESV	A - 6		
● - 4T-10	D - 73	May, 2000	1 Year
○ - 4T-10	D - 74		
● - WJ-6611-513	A - 23	May, 2000	1 Year
● - WJ-6882-824	A - 21	May, 2000	1 Year
● - DBL-0618N515	A - 33	May, 2000	1 Year
● - 91888-2	C - 41 - 1	May, 2000	1 Year
● - 91889-2	C - 41 - 2	May, 2000	1 Year
○ - 94613-1	C - 41 - 3		
○ - 91891-2	C - 41 - 4		
○ - 94614-1	C - 41 - 5		
● - 3160-04	C - 55	May, 2000	1 Year
● - 3160-05	C - 56	May, 2000	1 Year
● - 3160-06	C - 57	May, 2000	1 Year
● - 3160-07	C - 58	May, 2000	1 Year
○ - 3160-08	C - 59		
○ - 3160-09	C - 48		
○ - 355C	D - 22		
○ - 355D	D - 23		
○ - 8494H/8595H	D - 76		
○ - MZ5010C	D - 81		
● - Cable	C - 40 - 11	May, 2000	1 Year
● - Cable	C - 40 - 12	May, 2000	1 Year

Environmental conditions:

Temperature: 23 °C Humidity: 39 %

CONFIGURATION OF EUT

The Equipment Under Test (EUT) consists of:

Description	Applicant (Manufacturer)	Model No. (Serial No.)	FCC ID
900MHz Cordless Telephone (Handset)	Kyushu Matsushita Electric Co., Ltd. (Kyushu Matsushita Electric Co., Ltd.)	KX-TC1743 (--)	ACJ96NKX-TC1743

The measurement was carried out with the following equipment connected:

Description	Grantee/Distributor	Model No. (Serial No.)	FCC ID
Headphone/Mic Set	Matsushita Electric Ind. Co., Ltd.	KX-TCA87	N/A

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

	Description	Port	Shielded Cable	Shell Material	Ferrite Core	Cable Length
1	EUT	Handset	NO	--	NO	1.4 m
	----- Headphone/Mic Set	--		--		

Operation - mode of the EUT:

The EUT was operated during the test under the following specification:

Transmitting on communicating with the Base unit.(Modulation signal : random digital signal)

Test system:

The EUT has one port, as one Handset port.

Special accessories:

None

Detailed Transmitter portion(Channel plan):

Transmitting frequency : 902.713 MHz(1ch) - 927.289 MHz(109ch)
Number of channel : 109
Channel Separation : 227.56 kHz

Modulation System Information:

Type : TDD-FSK(Frequency Deviation : Typical +/-60kHz)
Bit Rate : 128Kbit/sec
Time-division duplex(TDD) Frame format:
The TDD frame is 2msec in length, and is composed of two symmetrical 797μsec TX and RX subframes.
Each subframe contains 102 bits of 7.8 μsec duration, with 203 μsec gap times between both TX and RX subframes.
Digital Security Code : 28bits

Detailed Receiver portion:

Receiving frequency : 902.713 MHz(1ch) - 927.289 MHz(109ch)
Local frequency : 913.408 MHz(1ch) - 925.469 MHz(54ch)
904.306 MHz(55ch) - 916.594 MHz(109ch)
Intermediate frequency : 10.695 MHz

Other Clock Frequency:

PLL Circuit : 902.713 MHz - 927.289 MHz
Reference Clock : 4.096 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 450 kHz - 30 MHz(Sec.15.207(a))

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 9 kHz - 10 GHz

Fundamental and Harmonics(Sec.15.249(a))

The requirements are	☒ - Passed	☐ - Not Passed
Min. limit margin	<u>7.5</u> dB	at <u>915.001</u> MHz
Max. limit exceeding	_____ dB	at _____ MHz

Spurious and Band-edge(Sec.15.249(c))

The requirements are	☒ - Passed	☐ - Not Passed
Min. limit margin	<u>0.5</u> dB	at <u>213.0</u> MHz
Max. limit exceeding	_____ dB	at _____ MHz
Uncertainty of measurement results (≤ 30 MHz)	<u>+ 2.5</u> dB(2 σ)	<u>- 2.5</u> dB(2 σ)
Uncertainty of measurement results (30 MHz - 1000 MHz)	<u>+ 4.1</u> dB(2 σ)	<u>- 4.2</u> dB(2 σ)
Uncertainty of measurement results (≥ 1000 MHz)	<u>+ 3.1</u> dB(2 σ)	<u>- 3.2</u> dB(2 σ)

Remarks: _____

SUMMARY

GENERAL REMARKS :

The EUT was tested according to the requirements of FCC Rules and Regulations Part 15 Subpart A and C (September 20, 2000) under the test configuration, as shown in page 14.

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 9, 2001

End of testing : February 27, 2001

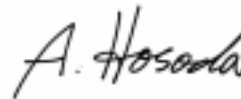
- JAPAN QUALITY ASSURANCE ORGANIZATION -

Approved by :

Issued by :

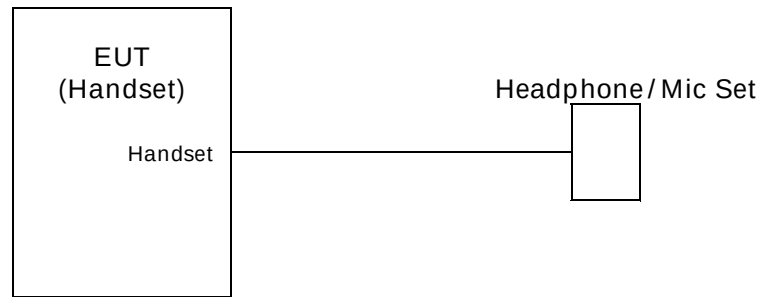


Takashi Yamanaka
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Test System-Arrangement (Drawings)



Power Supply : DC 3.6V(Ni-Cd Battery Pack : PQP85AA3A)

Preliminary Test and Test-setup(Drawings)

Radiated Emission (Magnetic Field) 9 kHz - 30 MHz:

The preliminary test was performed according to the description of ANSI C63.4-1992 Sec.8.3.1.1 (Preliminary Radiated Emissions Tests) and Sec.6.2.1 (Tabletop Equipment Tests).

The preliminary test was carried out to investigate the frequency of the emission that has the highest amplitude relative to the limits within normal operating modes, cable positions, and a typical system configuration. In order to find out to the maximum emission, the preliminary test and a final test were performed in accordance with the following steps.

Step 1: One operation mode of the test system was setting.

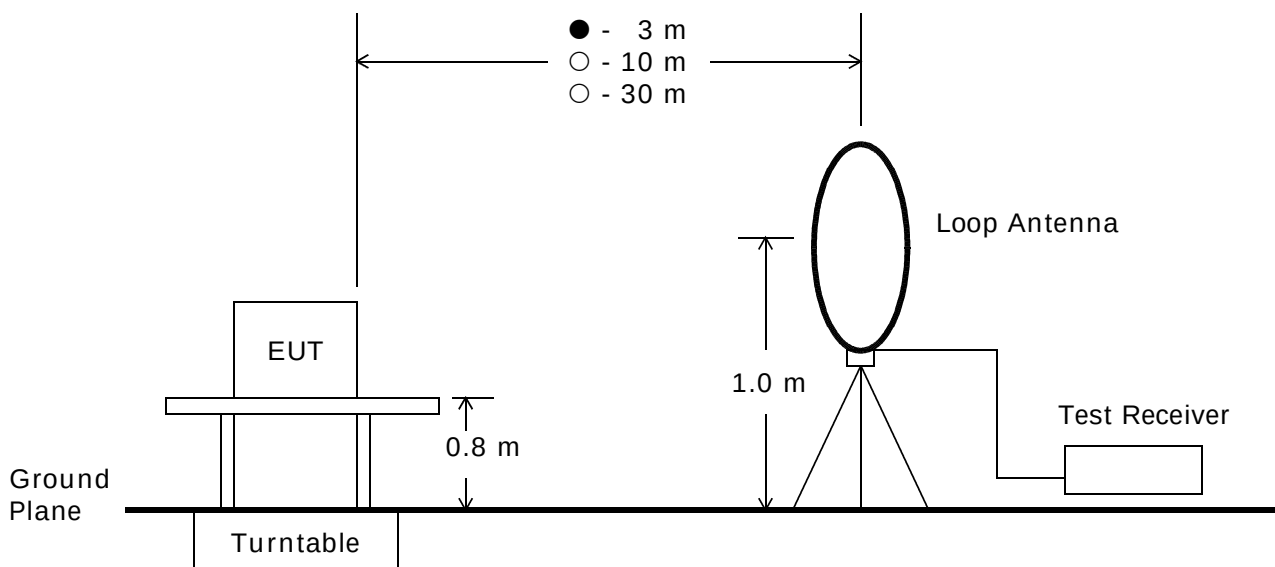
Step 2: In order to investigate the frequencies of maximum emissions, the loop antenna position was approached to the EUT and the significant frequency of the emission's circumstance from the test system were investigated. These data were recorded in the specified frequency band (9 kHz - 30 MHz).

Step 3: Using a test receiver and a loop antenna, the emission's circumstance from the test system was measured in according with ANSI C63.4-1992 Sec.8.3.1.2 (Final Radiated Emissions Tests) at each frequency which was found the higher emission referred to level vs. frequency on the list and which was measured by the loop antenna. The maximum emission was found by rotating three orthogonal axes or by changing the cable positions or cable manipulation under a typical system configuration.

Step 4: Return to step 1, if the other operation mode was possible to be setting.

Step 5: The worst result was reported arranging data of which was obtained and performed by one or plural operation modes as the final test.

At the worst point that has the highest amplitude relative to the limit the repeatability of the level was reconfirmed. The photographs of the tests system setup on the worst point were taken and recorded.



Electromagnetic Field Radiated Emission 30 MHz - 1000 MHz:

The preliminary test was performed according to the description of ANSI C63.4-1992 Sec.8.3.1.1 (Preliminary Radiated Emissions Tests) and Sec.6.2.1 (Tabletop Equipment Tests).

The preliminary test was carried out to investigate the frequency of the emission that has the highest amplitude relative to the limits within normal operating modes, cable positions, and a typical system configuration. In order to find out to the maximum emission, the preliminary test and a final test were performed in accordance with the following steps.

Step 1: One operation mode of the test system was setting.

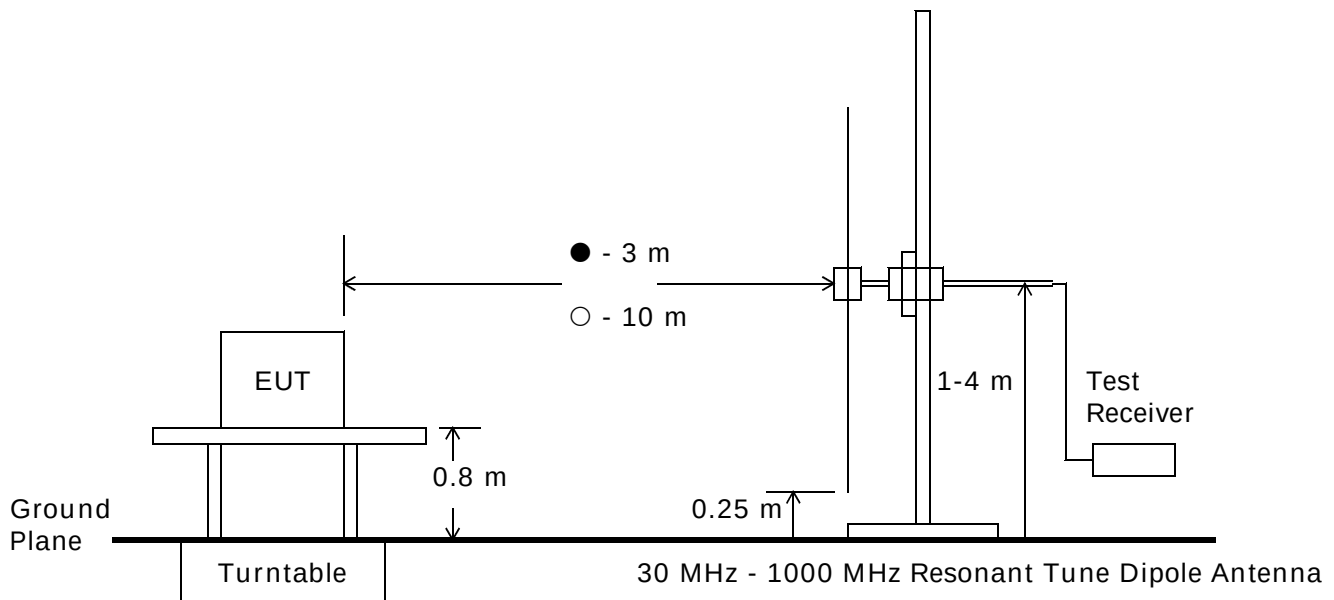
Step 2: Using a test receiver and a test antenna probe, the significant frequency of the emission's circumstance from the test system were investigated. These data were recorded every one of 22 divided bands in the specified frequency band (30 MHz - 1000 MHz).

Step 3: Using a test receiver and a resonant tuned dipole antenna, the emission's circumstance from the test system was measured in according with ANSI C63.4-1992 Sec.8.3.1.2 (Final Radiated Emissions Tests) at each frequency which was found the higher emission referred to level vs. frequency on the list and which was measured by the resonant tuned dipole antenna. The maximum emission was found by rotating three orthogonal axes or by changing the cable positions or cable manipulation under a typical system configuration.

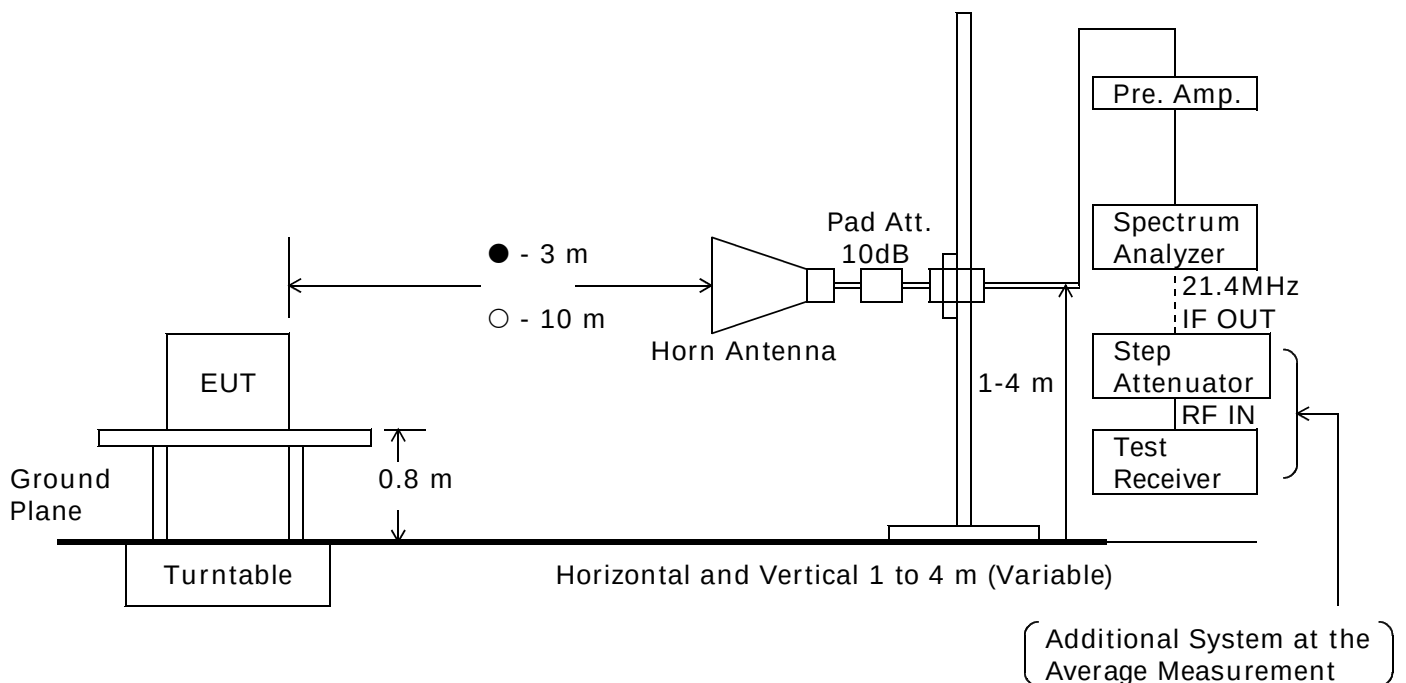
Step 4: Return to step 1, if the other operation mode was possible to be setting.

Step 5: The worst result was reported arranging data of which was obtained and performed by one or plural operation modes as the final test.

At the worst point that has the highest amplitude relative to the limit the repeatability of the level was reconfirmed. The photographs of the tests system setup on the worst point were taken and recorded.



At the worst point that has the highest amplitude relative to the limit the repeatability of the level was reconfirmed. The photographs of the tests system setup on the worst point were taken and recorded.



Spectrum Analyzer Setting:

Detector	*)Peak / Average
RES BW	1 MHz
VIDEO BW	3 MHz
SPAN	0 Hz

Test Receiver Setting:

SCALE	LINEAR	LINEAR
I.F.B.W.	1 MHz	1 MHz
Detector	Average	Peak

*) For the average measurement, it is made using a test receiver and a step attenuator.

Test-Setup (Photographs) at worst case

Conducted Emission 450kHz - 30MHz:

Not Applicable

Radiated Emission 9 kHz - 10 GHz



Horizontal polarization



Vertical polarization

Electromagnetic Field Radiated Emission Measurement
Intentional Radiator
Spurious emission except fundamental and harmonics(9kHz - 1GHz)

Test Date: February 23, 2001
Temp.: 19 °C ; Humi.: 30 %

Transmitting Frequency : 915.001 MHz (55 ch)

Frequency [MHz]	Antenna Factor [dB(1/m)]	Cable Loss [dB]	Meter Readings [dB(μV)]		Limits [dB(μV/m)]	Results [dB(μV/m)]		Margin [dB]	Remarks (Note 2)
			Hori.	Vert.		Hori.	Vert.		
41.0	1.2	0.6	<20.0	<20.0	40.0	<21.8	<21.8	>+18.2	C
57.3	4.1	0.8	21.0	<21.0	40.0	25.9	<25.9	+14.1	C
65.5	5.2	0.8	18.0	10.0	40.0	24.0	16.0	+26.0	C
213.0	15.5	1.5	26.0	14.0	43.5	43.0	31.0	+0.5	C
266.3	17.4	1.7	12.0	3.0	46.0	31.1	22.1	+14.9	C
319.5	19.0	1.9	11.0	<3.0	46.0	31.9	<23.9	+14.1	C
503.8	23.3	2.4	3.0	2.0	46.0	28.7	27.7	+17.3	C
581.6	24.7	2.7	5.0	3.0	46.0	32.4	30.4	+13.6	C
659.5	25.9	2.9	1.0	1.0	46.0	29.8	29.8	+16.2	C
778.3	27.5	3.1	<0.0	<0.0	46.0	<30.6	<30.6	>+15.4	C

Sample of calculated result at 213.0 MHz, as the Minimum Margin point:

Antenna Factor	=	15.5 dB(1 / m)
Cable Loss	=	1.5 dB
+) Meter Reading	=	26.0 dB(μV)
Result	=	43.0 dB(μV / m)

Minimum Margin : 43.5 - 43.0 = 0.5(dB)

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

Note 1:

1)The highest frequency generated or used in the EUT: 927.289 MHz

2)The upper frequency of measurement range : 10 GHz

Remarks:

Note 2	Detector Function	IF Bandwidth
A	CISPR QP	200 Hz
B	CISPR QP	9 kHz
C	CISPR QP	120 kHz
D	Average	120 kHz
E	Average	12 kHz
F	Average	7.5 kHz

Tester : Shigeru Kinoshita

Electromagnetic Field Radiated Emission Measurement
 Intentional Radiator
 Fundamental and harmonics(above 900MHz)

Test Date: February 27, 2001
 Temp.: 23 °C ; Humi.: 39 %

Transmitting Frequency : 902.713 MHz (1 ch)

Frequency [MHz]	Antenna Factor	Corr. Factor	Meter Readings [dB(μV)]		Limits [dB(μV/m)]	Results [dB(μV/m)]		Margin [dB]	Remarks (Note 2)
	[dB(1/m)]	[dB]	Hori.	Vert.		Hori.	Vert.		
Fundamental and Band-edge									
902.000	28.9	3.4	2.5	2.0	46.0	34.8	34.3	+11.2	C
902.713	28.9	3.4	52.5	51.5	94.0	84.8	83.8	+ 9.2	C
Harmonics at Average Detector									
1805.426	21.5	-38.9	43.0	43.0	54.0	25.6	25.6	+28.4	F
2708.139	21.2	-31.6	49.0	45.0	54.0	38.6	34.6	+15.4	F
3610.852	23.8	-31.0	37.0	37.0	54.0	29.8	29.8	+24.2	F
4513.565	27.3	-31.1	36.0	36.0	54.0	32.2	32.2	+21.8	F
5416.277	27.3	-31.1	<20.0	<20.0	54.0	<16.2	<16.2	>+37.8	F
6318.990	29.9	-30.1	<20.0	<20.0	54.0	<19.8	<19.8	>+34.2	F
7221.703	29.9	-29.7	<20.0	<20.0	54.0	<20.2	<20.2	>+33.8	F
8124.416	30.0	-27.8	<20.0	<20.0	54.0	<22.2	<22.2	>+31.8	F
9027.129	33.4	-27.8	<20.0	<20.0	54.0	<25.6	<25.6	>+28.4	F
9929.842	33.5	-27.5	<20.0	<20.0	54.0	<26.0	<26.0	>+28.0	F
Harmonics at Peak Detector									
1805.426	21.5	-38.9	61.0	62.0	74.0	43.6	44.6	+29.4	G
2708.139	21.2	-31.6	66.0	62.0	74.0	55.6	51.6	+18.4	G
3610.852	23.8	-31.0	51.0	52.0	74.0	43.8	44.8	+29.2	G
4513.565	27.3	-31.1	52.0	51.0	74.0	48.2	47.2	+25.8	G
5416.277	27.3	-31.1	<40.0	<40.0	74.0	<36.2	<36.2	>+37.8	G
6318.990	29.9	-30.1	<40.0	<40.0	74.0	<39.8	<39.8	>+34.2	G
7221.703	29.9	-29.7	<40.0	<40.0	74.0	<40.2	<40.2	>+33.8	G
8124.416	30.0	-27.8	<40.0	<40.0	74.0	<42.2	<42.2	>+31.8	G
9027.129	33.4	-27.8	<40.0	<40.0	74.0	<45.6	<45.6	>+28.4	G
9929.842	33.5	-27.5	<40.0	<40.0	74.0	<46.0	<46.0	>+28.0	G

Transmitting Frequency : 915.001 MHz (55 ch)

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.		
Fundamental									
915.001	29.1	3.4	54.0	53.5	94.0	86.5	86.0	+7.5	C

Harmonics at Average Detector

1830.002	21.6	-38.6	44.0	44.0	54.0	27.0	27.0	+27.0	F
2745.003	21.4	-31.5	48.0	45.0	54.0	37.9	34.9	+16.1	F
3660.004	23.8	-30.9	37.0	38.0	54.0	29.9	30.9	+23.1	F
4575.005	27.3	-31.1	35.0	35.0	54.0	31.2	31.2	+22.8	F
5490.005	27.4	-31.1	<20.0	<20.0	54.0	<16.3	<16.3	>+37.7	F
6405.006	29.9	-30.1	<20.0	<20.0	54.0	<19.8	<19.8	>+34.2	F
7320.007	29.9	-29.6	<20.0	<20.0	54.0	<20.3	<20.3	>+33.7	F
8235.008	30.0	-27.8	<20.0	<20.0	54.0	<22.2	<22.2	>+31.8	F
9150.009	33.4	-27.8	<20.0	<20.0	54.0	<25.6	<25.6	>+28.4	F

Harmonics at Peak Detector

1830.002	21.6	-38.6	61.0	61.0	74.0	44.0	44.0	+30.0	G
2745.003	21.4	-31.5	65.0	63.0	74.0	54.9	52.9	+19.1	G
3660.004	23.8	-30.9	51.0	52.0	74.0	43.9	44.9	+29.1	G
4575.005	27.3	-31.1	51.0	51.0	74.0	47.2	47.2	+26.8	G
5490.005	27.4	-31.1	<40.0	<40.0	74.0	<36.3	<36.3	>+37.7	G
6405.006	29.9	-30.1	<40.0	<40.0	74.0	<39.8	<39.8	>+34.2	G
7320.007	29.9	-29.6	<40.0	<40.0	74.0	<40.3	<40.3	>+33.7	G
8235.008	30.0	-27.8	<40.0	<40.0	74.0	<42.2	<42.2	>+31.8	G
9150.009	33.4	-27.8	<40.0	<40.0	74.0	<45.6	<45.6	>+28.4	G

Transmitting Frequency : 927.289 MHz (109 ch)

Frequency [MHz]	Antenna Factor	Corr. Factor	Meter Readings [dB(μV)]		Limits [dB(μV/m)]	Results [dB(μV/m)]		Margin [dB]	Remarks (Note 2)
	[dB(1/m)]	[dB]	Hori.	Vert.		Hori.	Vert.		
Fundamental and Band-edge									
927.289	29.2	3.5	51.5	49.5	94.0	84.2	82.2	+9.8	C
928.000	29.2	3.5	<0.0	<0.0	46.0	<32.7	<32.7	>+13.3	C
Harmonics at Average Detector									
1854.578	21.6	-38.6	43.0	43.0	54.0	26.0	26.0	+28.0	F
2781.867	21.4	-31.5	43.0	43.0	54.0	32.9	32.9	+21.1	F
3709.156	23.8	-30.9	36.0	36.0	54.0	28.9	28.9	+25.1	F
4636.445	27.3	-31.2	<20.0	<20.0	54.0	<16.1	<16.1	>+37.9	F
5563.733	27.4	-31.0	<20.0	<20.0	54.0	<16.4	<16.4	>+37.6	F
6491.022	29.9	-30.1	<20.0	<20.0	54.0	<19.8	<19.8	>+34.2	F
7418.311	30.0	-29.5	<20.0	<20.0	54.0	<20.5	<20.5	>+33.5	F
8345.600	33.4	-27.8	<20.0	<20.0	54.0	<25.6	<25.6	>+28.4	F
9272.889	33.4	-27.7	<20.0	<20.0	54.0	<25.7	<25.7	>+28.3	F
Harmonics at Peak Detector									
1854.578	21.6	-38.6	60.0	61.0	74.0	43.0	44.0	+30.0	G
2781.867	21.4	-31.5	65.0	64.0	74.0	54.9	53.9	+19.1	G
3709.156	23.8	-30.9	51.0	52.0	74.0	43.9	44.9	+29.1	G
4636.445	27.3	-31.2	<40.0	<40.0	74.0	<36.1	<36.1	>+37.9	G
5563.733	27.4	-31.0	<40.0	<40.0	74.0	<36.4	<36.4	>+37.6	G
6491.022	29.9	-30.1	<40.0	<40.0	74.0	<39.8	<39.8	>+34.2	G
7418.311	30.0	-29.5	<40.0	<40.0	74.0	<40.5	<40.5	>+33.5	G
8345.600	33.4	-27.8	<40.0	<40.0	74.0	<45.6	<45.6	>+28.4	G
9272.889	33.4	-27.7	<40.0	<40.0	74.0	<45.7	<45.7	>+28.3	G

Sample of calculated result at 915.001 MHz, as the Minimum Margin point:

Antenna Factor = 29.1 dB(1/m)
 Corr. Factor = 3.4 dB
 +) Meter Reading = 54.0 dB(μV)
 Result = 86.5 dB(μV/m)

Minimum Margin : 94.0 - 86.5 = 7.5(dB)

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

Note 1:

- 1)The highest frequency generated or used in the EUT: 927.289 MHz
- 2)The upper frequency of measurement range : 10 GHz
- 3)The spectrum was scanned 9 kHz to 10 GHz and all emissions not reported were more than 20 dB below the applied limits.
- 4)Corr. Factor [dB] (below 1 GHz) = Cable Loss [dB]
 Corr. Factor [dB] (above 1 GHz) = Cable Loss [dB] + 10 dB Pad Attenuator [dB] - Pre-Amplifier Gain [dB]

Remarks:

Note 2	Detector Function	IF Bandwidth
A	CISPR QP	200 Hz
B	CISPR QP	9 kHz
C	CISPR QP	120 kHz

Note 2	Detector Function	RES. B.W	V.B.W	Sweep T	Span
D	Peak (SP)	1 MHz	1 MHz	20 msec	0 Hz
E	Peak (SP)	100 kHz	100 kHz	20 msec	0 Hz
*) F	Average (Receiver)	1 MHz (1 MHz)	3 MHz	20 msec	0 Hz
*) G	Peak (Receiver)	1 MHz (1 MHz)	3 MHz	20 msec	0 Hz

():Setting of spectrum analyzer

*)For the average/peak measurement method, it is made measurement using a test receiver, a step attenuator or and a spectrum analyzer(FCC REPLY No. 950523A).

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