JAPAN QUALITY ASSURANCE ORGANIZATION
21-25, KINUTA 1-CHOME, SETAGAYA-KU, TOKYO 157-8573 JAPAN
PHONE +81-3-3416-0111, FAX +81-3-3416-9691

EMI TEST REPORT

JQA File No.	: 400-70694
Model No.	: TA7752
Type of Equipment	: Radio Controlled Toy (Transmitter)
Regulations Applied	: CFR 47 FCC Rules and Regulations Part 15
FCC ID	: CVTTA7752
Applicant	: NIKKO CO., LTD.
Address	: 1-7-14, Mizumoto, Katsushika-ku, Tokyo 125-0032, Japan
Manufacturer	: NIKKO ELECTRONICS BHD.
Address	: PLOT 497 PRAI FREE TRADE ZONE, PARI INDUSTRIAL ESTATE, 13600 PRAI, PENANG, MALAYSIA
Received date of EUT	: February 25, 2008
Test Result	**: 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) of Japan and National Institute of Information and Communications Technology(NICT) of Japan.

This report must not be used by the client to claim product endorsement by NVLAP or NIST any agency of the U.S. Government.

NVLAP LAB CODE : 200189-0

TABLE OF CONTENTS

1 DOCUMENTATION

1.1 TEST REGULATION

FCC Rules and Regulations Part 15 Subpart A and C Intentional Radiators

Test procedure :

AC power line conducted emission, radiated emission, frequency stability and occupied bandwidth tests were performed according to the procedures in ANSI C63.4-2003.

1.2 GENERAL INFORMATION

1.2.1 Test facility :

1) Test Facility located at EMC Engineering Dept. Testing Div. :
   - No.2 and 3 Anechoic Chambers(3 meters Site).
   - Shielded Enclosure.

2) EMC Engineering Dept. Testing Div. is accredited under the National Voluntary Laboratory accreditation Program for satisfactory compliance established in title 15, Part 285 Code of Federal Regulations.
   NVLAP Lab Code : 200189-0

1.2.2 Description of the Equipment Under Test (EUT) :

1)	Type of Equipment	: Radio Controlled Toy (Transmitter)
2)	Product Type	: Production
3)	Category	: Low Power Communication Device Transmitter
4)	EUT Authorization	: Certification
5)	FCC ID	: CVTTA7752
6)	Trade Name	: NIKKO
7)	Model No.	: TA7752
8)	Operating Frequency Range	: 27.145 MHz
9)	Highest Frequency Used in the EUT	: 27.145 MHz
10)	Serial No.	: None
11)	Date of Manufacture	: None
12)	Power Rating	: DC 9.0V(Size 9V Battery x 1)
13)	EUT Grounding	: None

1.2.3 Definitions for symbols used in this test report :

_x_ - indicates that the listed condition, standard or equipment is applicable for this report.

___ - indicates that the listed condition, standard or equipment is not applicable for this report.

1.3 TEST CONDITION

1.3.1 The measurement of the AC Power Line Conducted Emission

___ - was performed in the following test site.
_x_ - was not applicable.

Test location :

Safety & EMC Center EMC Engineering Dept. Testing Div.
21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

___ - Shielded Enclosure
___ - Anechoic Chamber No. A (portable Type)

Used test instruments :

Type	**Number of test instruments (Refer to Appendix)**
Test Receiver	N/A
Spectrum Analyzer	N/A
Cable	N/A
AMN(for EUT)	N/A
AMN(for Peripheral)	N/A
Termination	N/A
Thermo-Hygrometer	N/A

1.3.2 The measurement of the Radiated Emission(9 kHz – 30 MHz)

_x_ - was performed in the following test site.
___ - was not applicable.

Test location :

Safety & EMC Center EMC Engineering Dept. Testing Div.
21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

_x_ - Anechoic Chamber No. A (3 meters)
___ - Anechoic Chamber No. B (3 meters)

Validation of Site Attenuation :
1) Last Confirmed Date : March, 2007
2) Interval : 1 year

Used test instruments :

Type	**Number of test instruments (Refer to Appendix)**
Test Receiver	13
Antenna	21
Cable	43
Thermo-Hygrometer	204

1.3.3 The measurement of the Radiated Emission(30 MHz – 1000 MHz)

_x_ - was performed in the following test site.
___ - was not applicable.

Test location :

Safety & EMC Center EMC Engineering Dept. Testing Div.
21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

_x_ - Anechoic Chamber No. A (3 meters)
___ - Anechoic Chamber No. B (3 meters)

Validation of Site Attenuation :
1) Last Confirmed Date : March, 2007
2) Interval : 1 year

Used test instruments :

Type	**Number of test instruments (Refer to Appendix)**
Test Receiver	11
Antenna	167, 168
Cable	38
RF Amplifier	N/A
Thermo-Hygrometer	204

1.3.4 The measurement of the Radiated Emission(Above 1000 MHz)

___ - was performed in the following test site.
_x_ - was not applicable.

Test location :

Safety & EMC Center EMC Engineering Dept. Testing Div.
21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

___ - Anechoic Chamber No. A (3 meters)
___ - Anechoic Chamber No. B (3 meters)

Validation of Site Attenuation :

1) Last Confirmed Date : March, 2007
2) Interval : 1 year

Used test instruments :

Type	**Number of test instruments (Refer to Appendix)**
Test Receiver	N/A
Spectrum Analyzer	N/A
Cable	N/A
Antenna	N/A
RF Amplifier	N/A
Band Reject Filter	N/A
High Pass Filter	N/A
Thermo-Hygrometer	N/A

1.3.5 The measurement of the Frequency Stability

___ - was performed.
_x_ - was not applicable.

Used test instruments :

Type	**Number of test instruments (Refer to Appendix)**
Frequency Counter	N/A
Oven	N/A
DC Power Supply	N/A
Thermo-Hygrometer	N/A

1.3.6 The measurement of the Occupied Bandwidth

_x_ - was performed.
___ - was not applicable.

Used test instruments :

Type	**Number of test instruments (Refer to Appendix)**
Test Receiver	13
Spectrum Analyzer	N/A
Cable	47
Antenna	22
Thermo-Hygrometer	202

1.4 EUT MODIFICATION / Deviation from Standard

1.4.1 EUT MODIFICATION

_x_ - No modifications were conducted by JQA to achieve compliance to Class B levels.
___ - To achieve compliance to Class B levels, the following changes were made by JQA during the compliance test.

The modifications will be implemented in all production models of this equipment.

Applicant :

Date :

Typed Name :

Position :

Signatory : _____

1.4.2 Deviation from Standard:

_x_ - No deviations from the standard described in clause 1.1.
___ - The following deviations were employed from the standard described in clause 1.1:

_____

_____

1.5 TEST RESULTS

AC Power Line Conducted Emission ___ **- Applicable** _x_ **- NOT Applicable**

The requirements are ___ **- PASSED** ___ **- NOT PASSED**

Remarks :

Radiated Emission [§15.227] _x_ **- Applicable** ___ **- NOT Applicable**

The requirements are _x_ **- PASSED** ___ **- NOT PASSED**

Remarks:

Frequency Stability ___ **- Applicable** _x_ **- NOT Applicable**

The requirements are ___ **- PASSED** ___ **- NOT PASSED**

Remarks:

Occupied Bandwidth [§15.215(c)] _x_ **- Applicable** ___ **- NOT Applicable**

The requirements are _x_ **- PASSED** ___ **- NOT PASSED**

Remarks:

1.6 SUMMARY

General Remarks :

The EUT was tested according to the requirements of FCC Rules and Regulations Part 15 Subpart A and C under the test configuration, as shown in clause 1.7 to 1.10. The conclusion for the test items which are required by the applied regulation is indicated under the test result.

Test Result :

The “as received” sample;

_x_ - fulfill the test requirements of the regulation mentioned on clause 1.1.

___ - fulfill the test requirements of the regulation mentioned on clause 1.1, but with certain qualifications.

___ - doesn’t fulfill the test regulation mentioned on clause 1.1.

Begin of testing : February 25, 2008

End of testing : February 26, 2008

- JAPAN QUALITY ASSURANCE ORGANIZATION -

Approved by:

Eiichi Saegusa
Manager
Testing Division
JQA EMC Engineering Dept.

Signatories:
Issued by:

Shigeru Osawa
Assistant Manager
Testing Division
JQA EMC Engineering Dept.

1.7 TEST CONFIGURATION / OPERATION OF EUT

1.7.1 Test Configuration

The equipment under test (EUT) consists of :

Item	Manufacturer	Model No.	FCC ID	Serial No.
Radio Controlled Toy (Transmitter)	NIKKO ELECTRONICS BHD.	TA7752	CVTTA7752	None

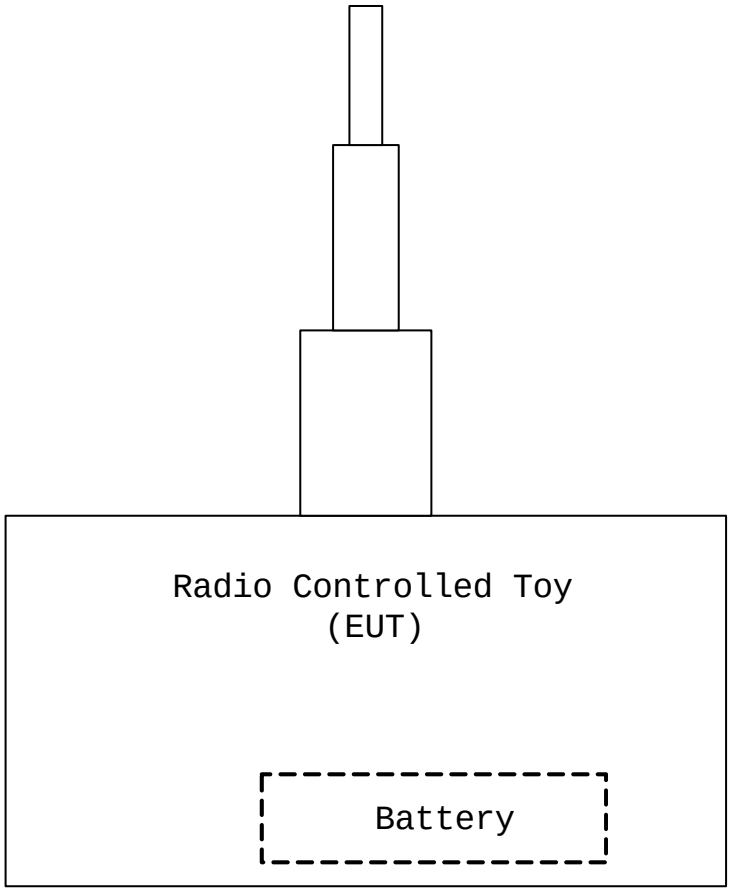
1.7.2 Operating condition

Power supply Voltage : 9.0 VDC(Fresh Battery used)
The tests have been carried out the following mode.
1) TX mode (27.145 MHz)

1.7.3 Generating and Operating frequency of EUT

27.145 MHz

1.8 EUT ARRANGEMENT (DRAWINGS)



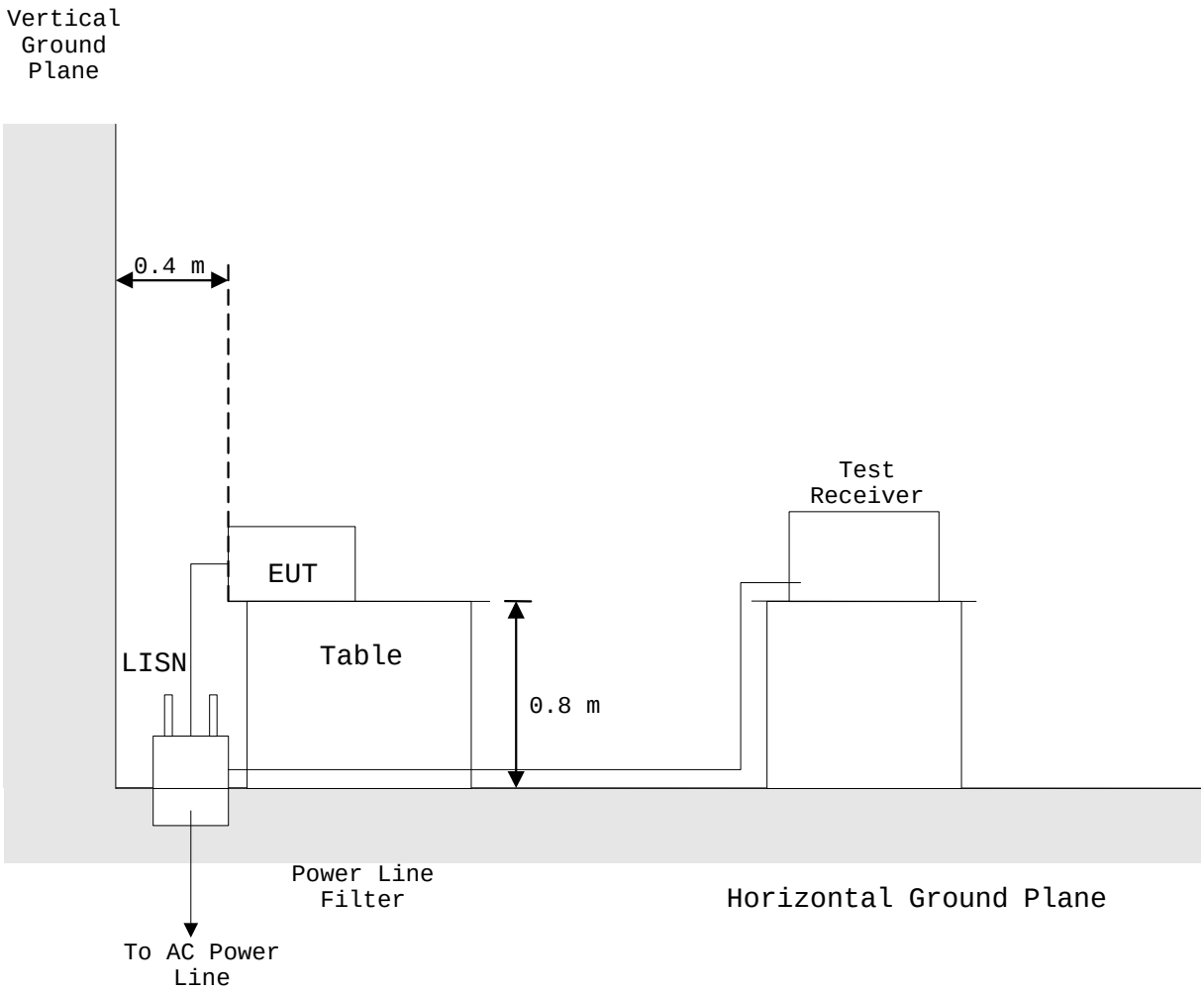
1.9 PRELIMINARY TEST AND TEST-SETUP (DRAWINGS)

1.9.1 AC Power Line Conducted Emission (150 kHz – 30 MHz) :

According to description of ANSI C63.4-2003 sec.13.1.3.1, the AC power line preliminary conducted emissions measurements were carried out.
The preliminary conducted measurements were performed using the spectrum analyzer to observe the emission characteristics of the EUT.
The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for final AC power line conducted emissions measurements.

Shielded Enclosure

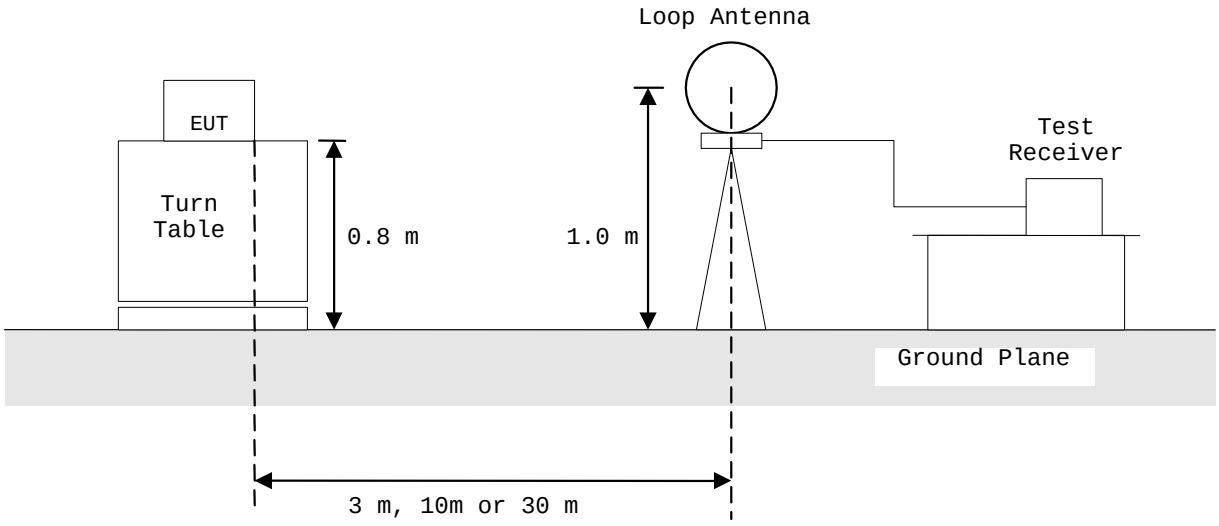
- Side View -



1.9.2 Radiated Emission (9 kHz – 30 MHz) :

According to description of ANSI C63.4-2003 sec.13.1.4.1, the preliminary radiated emissions measurement were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT.
The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements.

- Side View -

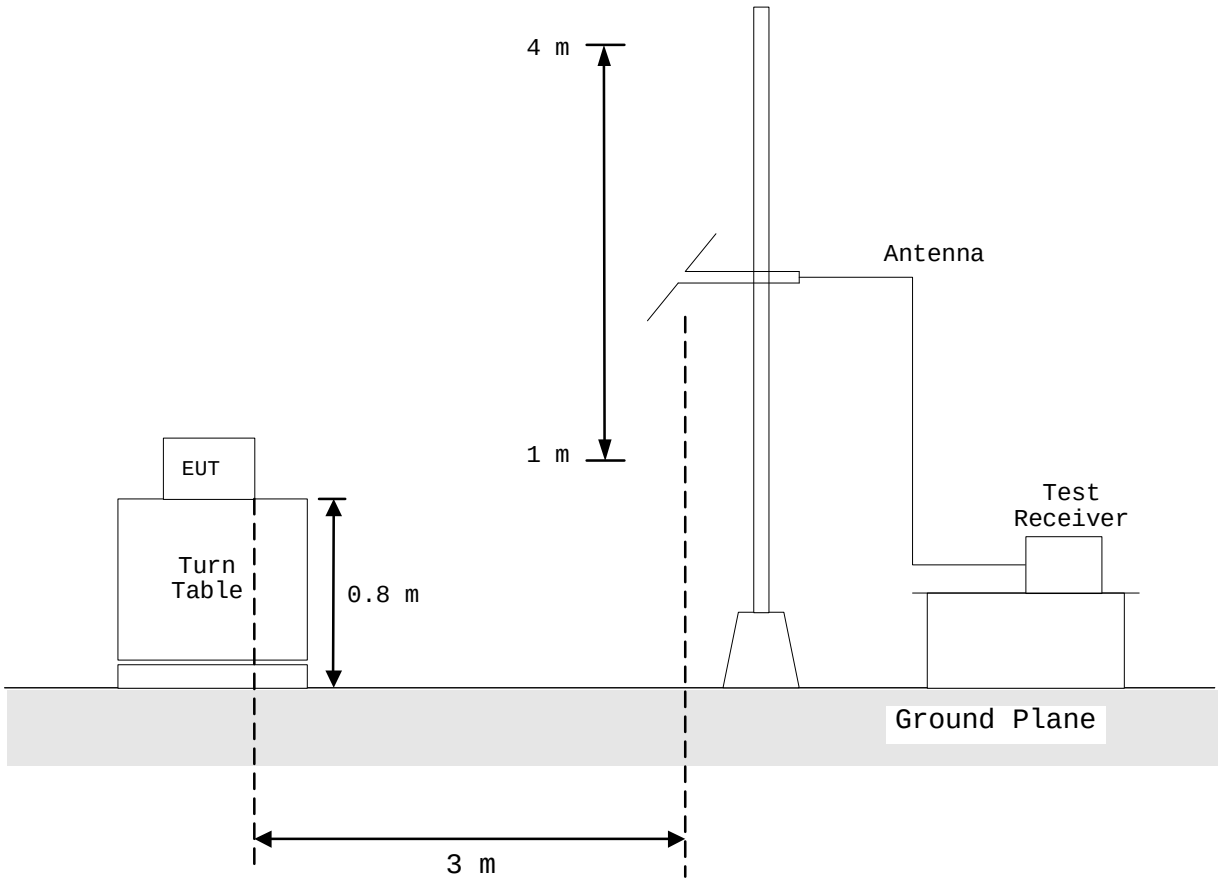


1.9.3 Radiated Emission (30 MHz – 1000 MHz) :

According to description of ANSI C63.4-2003 sec.13.1.4.1, the preliminary radiated emissions measurement were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT.
The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements.

Anechoic Chamber

- Side View -

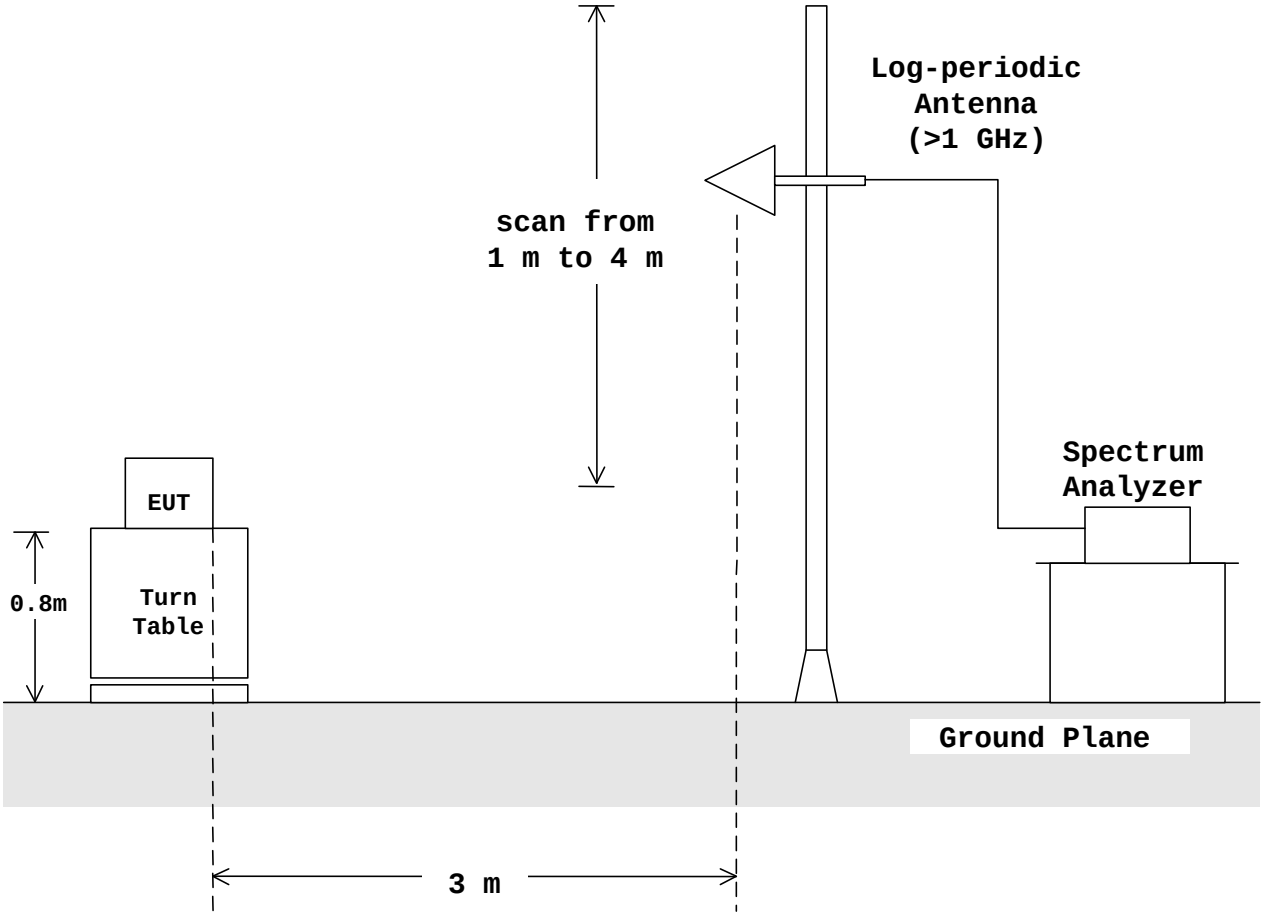


1.9.4 Radiated Emission (Above 1 GHz) :

According to description of ANSI C63.4-2003 sec.13.1.4.1, the preliminary radiated emissions measurements were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT.
The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements.

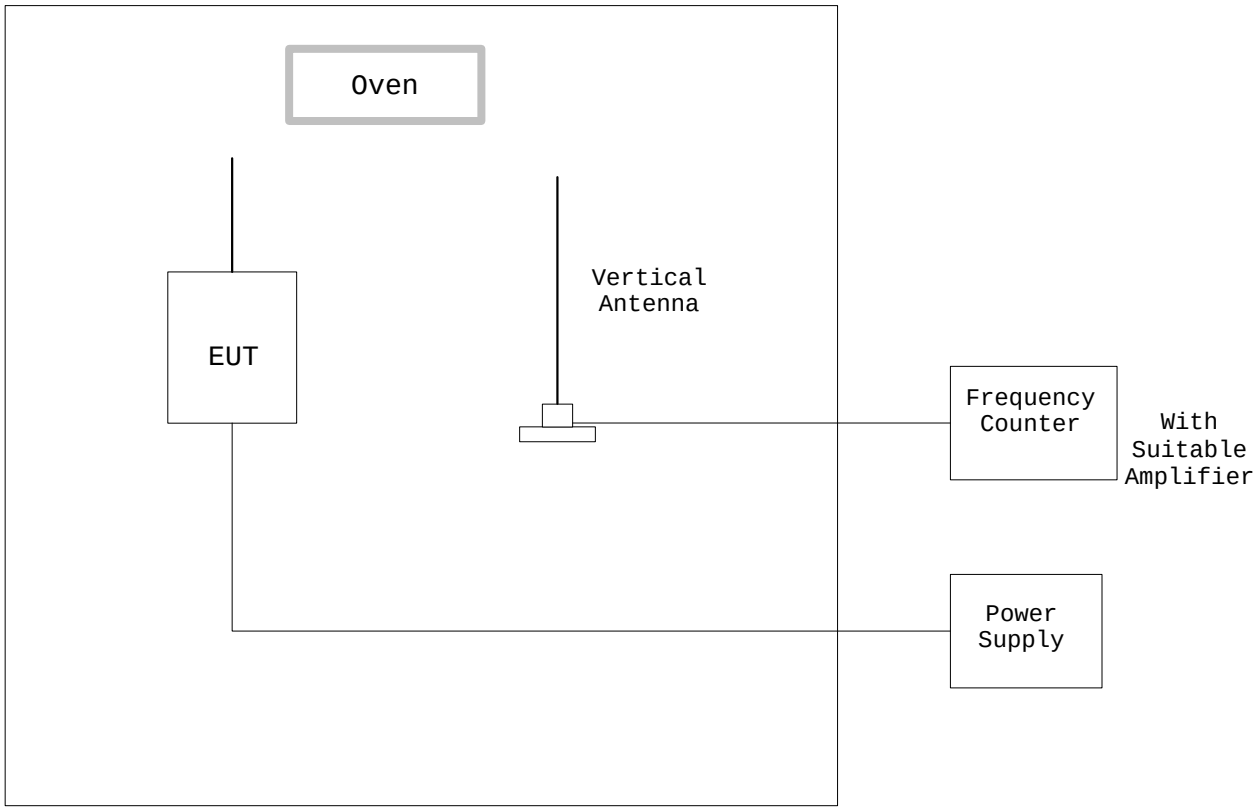
Anechoic Chamber

- Side View -



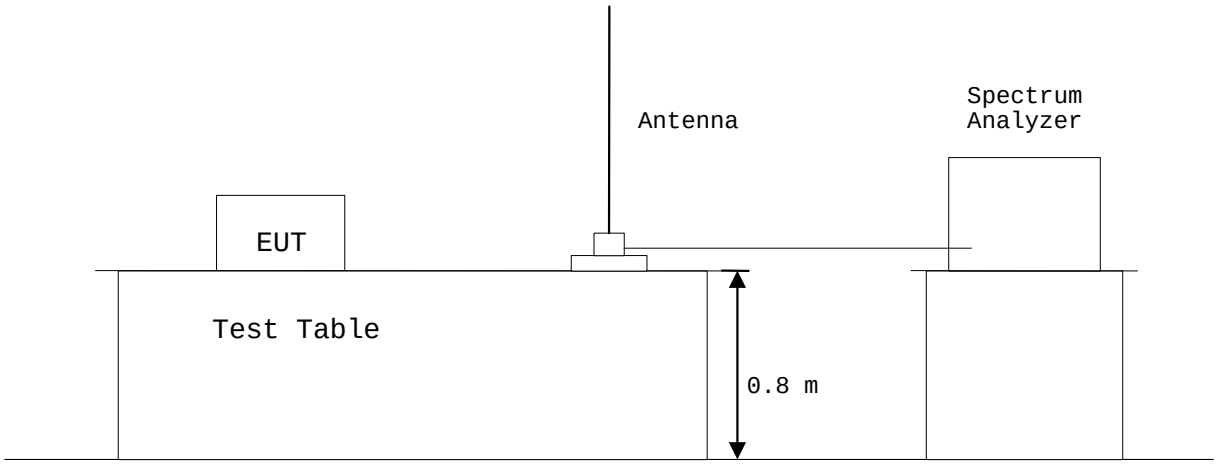
1.9.5 Frequency Stability :

According to description of ANSI C63.4-2003 sec.13.1.5 and sec.13.1.6, the frequency stability measurements were carried out. By using frequency counter with suitable RF amplifier, the carrier frequency of the transmitter under test was measured with a temperature variation of –20°C to +50°C at the normal supply voltage, and if required , with a variation in the primary voltage from 85 % to 115 % the rated supply voltage at the temperature of +20°C.
These measurements were carried out after allow sufficient time (approximately 1 hour) for the temperature of the chamber to stabilize.



1.9.6 Occupied Bandwidth :

According to description of ANSI C63.4-2003 sec.13.1.7, the occupied bandwidth measurements were carried out. By using a spectrum analyzer with a vertical antenna for picking up the signal, the measurements of the emission were made under the transmitting modes of the EUT.
The resolution bandwidth of spectrum analyzer was set to the value specified in sec.13.1.7.



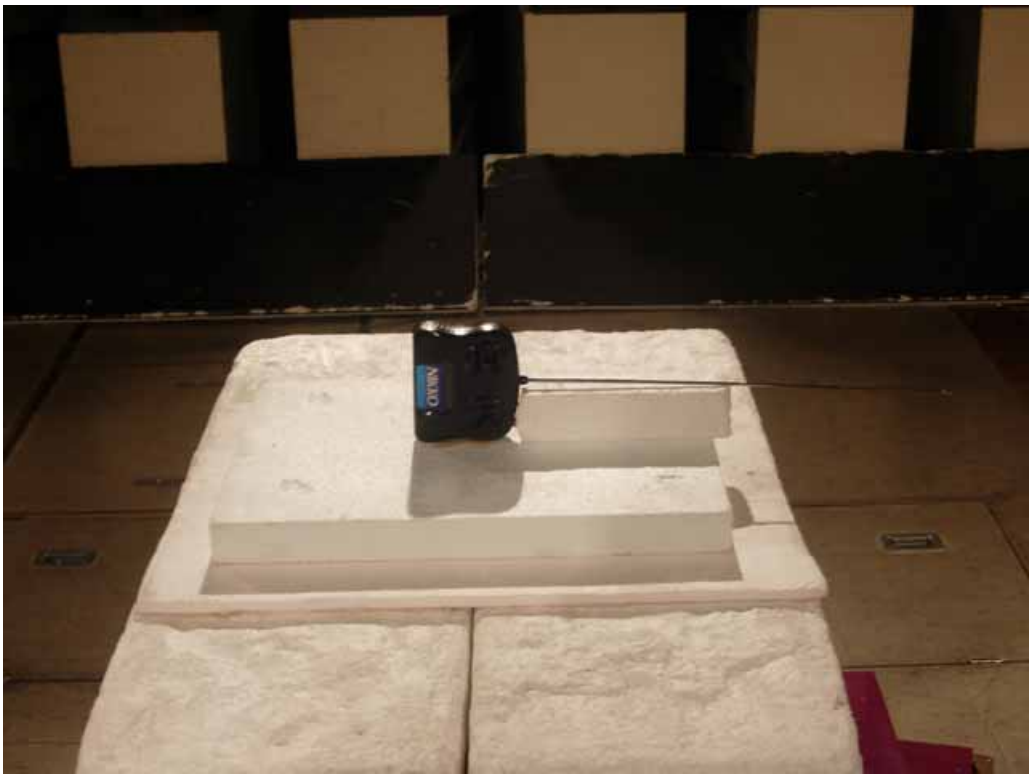
1.10 TEST ARRANGEMENT (PHOTOGRAPHS)

PHOTOGRAPHS OF EUT CONFIGURATION FOR RADIATED EMISSIONS MEASUREMENT

Photograph present configuration with maximum emission

PHOTOGRAPHS OF EUT CONFIGURATION FOR RADIATED EMISSIONS MEASUREMENT

Photograph present configuration with maximum emission



2 TEST DATA

2.1 AC Power Line Conducted Emissions

Note : This test was not applicable.

2.2 Radiated Emissions Measurement

Date : February 26, 2008
Temp.: 25 °C Humi.: 37 %

Operating Frequency : 27.145 MHz
Distance of Measurement : 3.0 meters

Frequency (MHz)	P-A Factor (dB)	Antenna Factor (dB)	Polarization	Meter Reading (dBuV) QP	AV	Peak	Limits (dBuV/m) QP/AV	Peak	Emission Levels (dBuV/m) QP/AV	Peak	Margins (dB) QP/AV	Peak
27.1	0.0	1.5		-	66.4	74.0	80.0	100.0	67.9	75.5	12.1	24.5
54.3	0.0	13.6	V	16.5	-	-	40.0	-	30.1	-	9.9	-
81.5	0.0	10.6	V	2.5	-	-	40.0	-	13.1	-	26.9	-
108.6	0.0	15.7	V	< 0.0	-	-	43.5	-	< 15.7	-	> 27.8	-
135.7	0.0	18.5	V	< 0.0	-	-	43.5	-	< 18.5	-	> 25.0	-
162.9	0.0	19.9	V	< 0.0	-	-	43.5	-	< 19.9	-	> 23.6	-
190.0	0.0	21.1	V	< 0.0	-	-	43.5	-	< 21.1	-	> 22.4	-
217.2	0.0	21.6	H	0.4	-	-	46.0	-	22.0	-	24.0	-
244.3	0.0	21.9	V	< 0.0	-	-	46.0	-	< 21.9	-	> 24.1	-
271.5	0.0	23.0	V	< 0.0	-	-	46.0	-	< 23.0	-	> 23.0	-

Notes :
1) The spectrum was checked from 30 MHz to 1000 MHz.
2) The cable loss is included in the antenna factor.
3) The symbol of "<"means "or less".
4) The symbol of ">"means "or greater".
5) A sample calculation(QP/AV) was made at 27.14 (MHz).
PA + Af + Mr = 0 + 1.5 + 66.4 = 67.9 (dBuV/m)
PA = Peak to Average Factor(P-A Factor)
Af = Antenna Factor
Mr = Meter Reading
6) Measuring Instrument Setting :

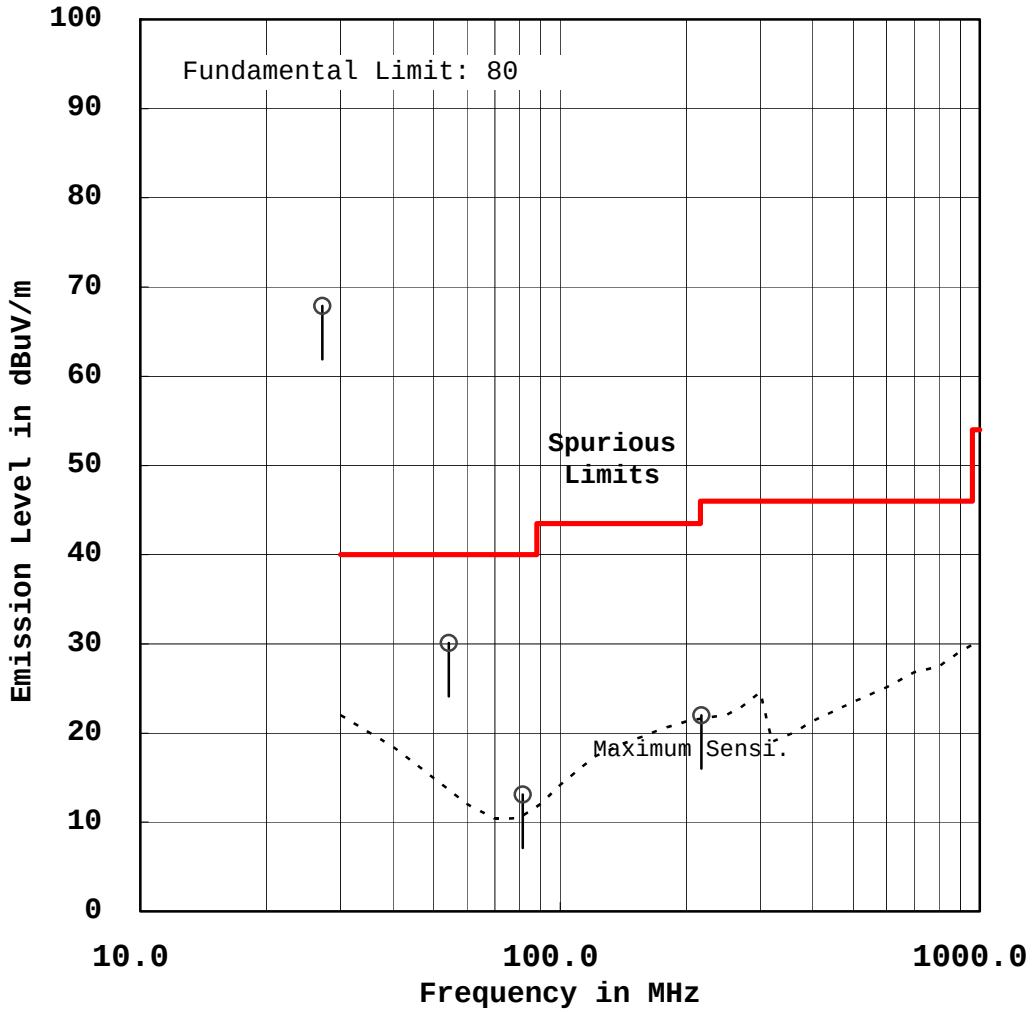
Detector function	Resolution Bandwidth	Video Bandwidth
Quasi-peak(QP)	120 kHz	-
Average(AV)	120 kHz	-
Peak	120 kHz	-

Tested by : K. Miura
Katsunori Miura
Testing Engineer

RADIATED EMISSION MEASUREMENT

FCC ID : CVTTA7752

Standard : CFR 47 FCC Rules Part 15 O QP/AV
Operating Frequency(MHz) : 27.15



2.3 Frequency Stability

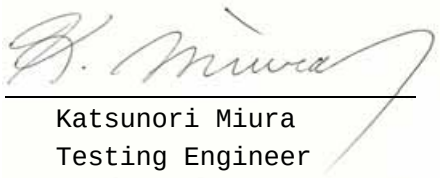
Note : This test was not applicable.

2.4 Occupied Bandwidth Measurement

Date : February 25, 2008
Temp.: 25 °C Humi.: 40 %

Measurements Results :

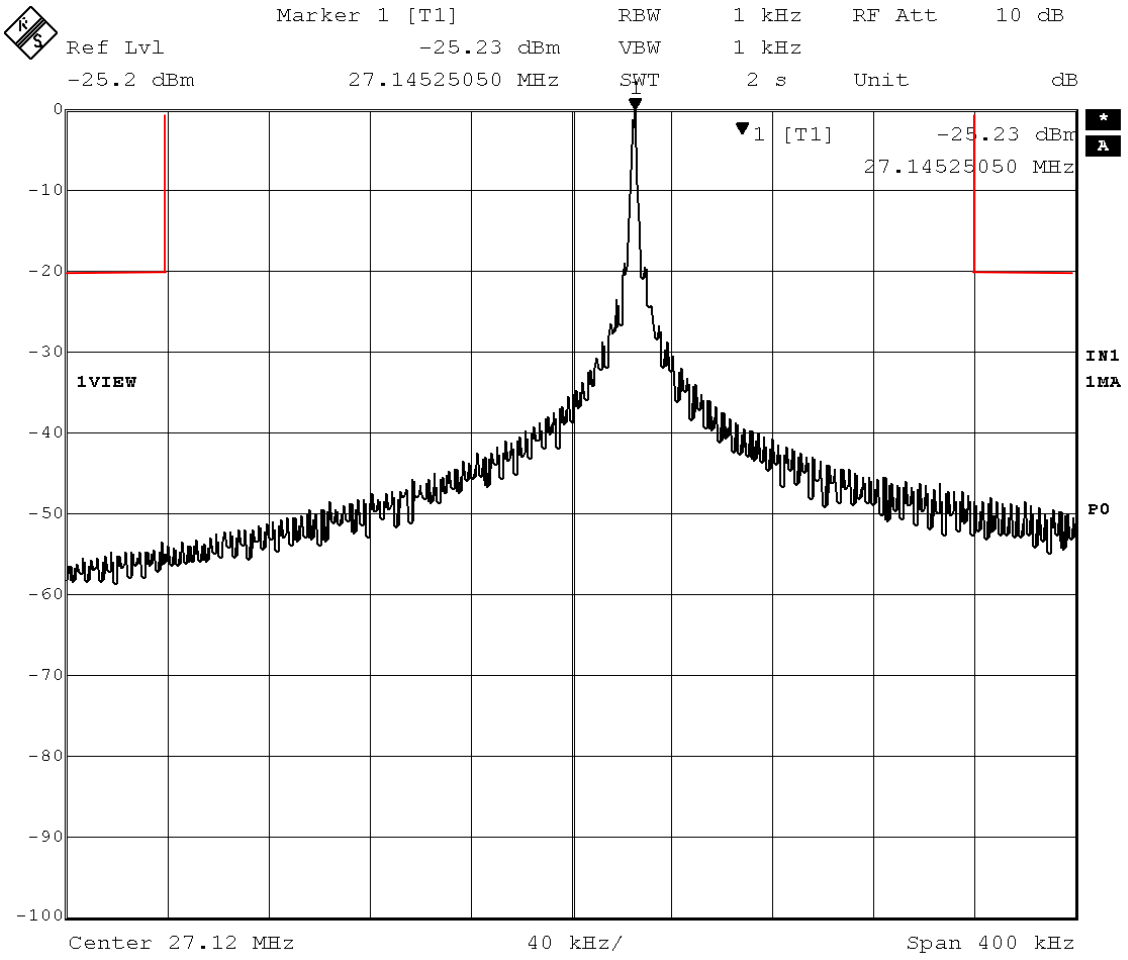
Refer to the attached graphs.

Tested by : 
Katsunori Miura
Testing Engineer

Emission Limitation

FCC ID : CVTTA7752
Model : TA7752

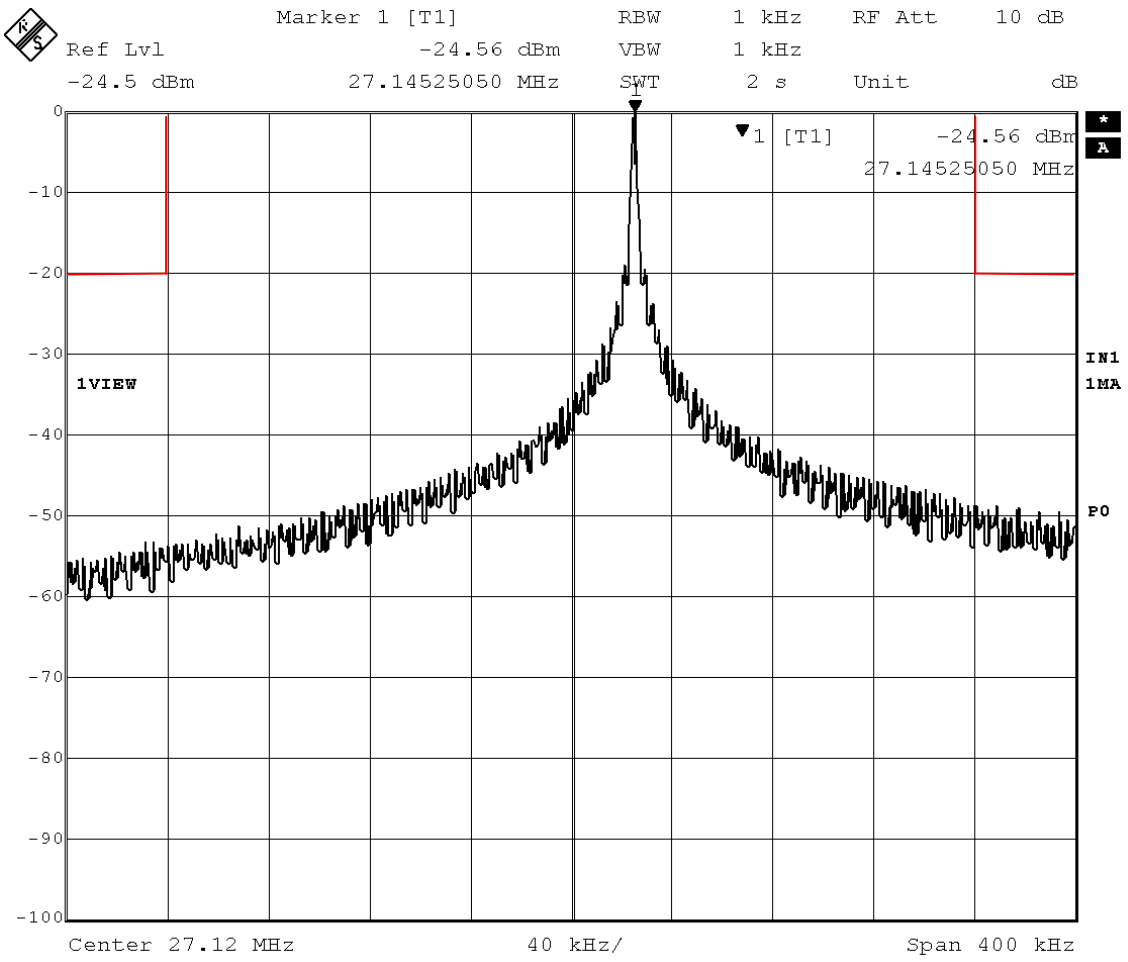
Mode of EUT : Forward



Emission Limitation

FCC ID : CVTTA7752
Model : TA7752

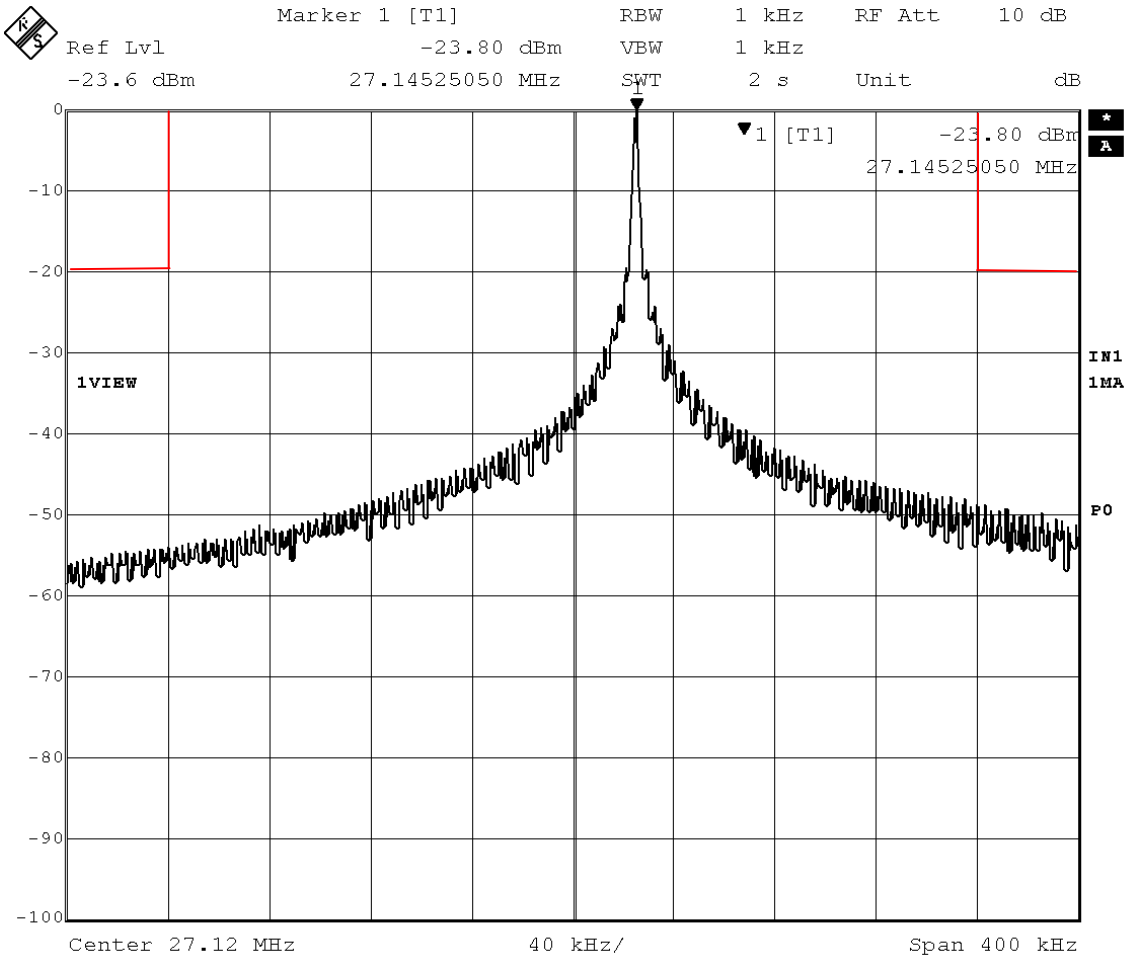
Mode of EUT : Forward Left



Emission Limitation

FCC ID : CVTTA7752
Model : TA7752

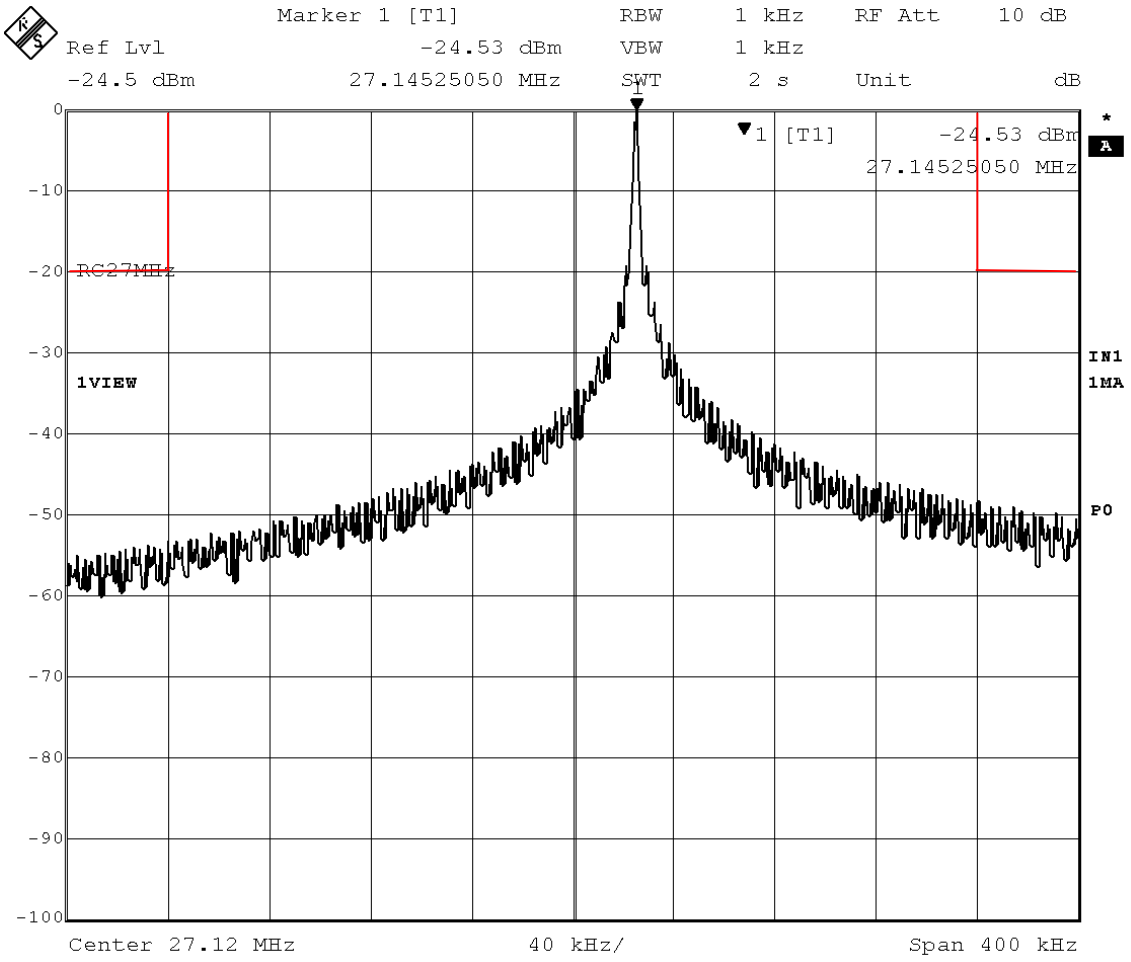
Mode of EUT : Forward Right



Emission Limitation

FCC ID : CVTTA7752
Model : TA7752

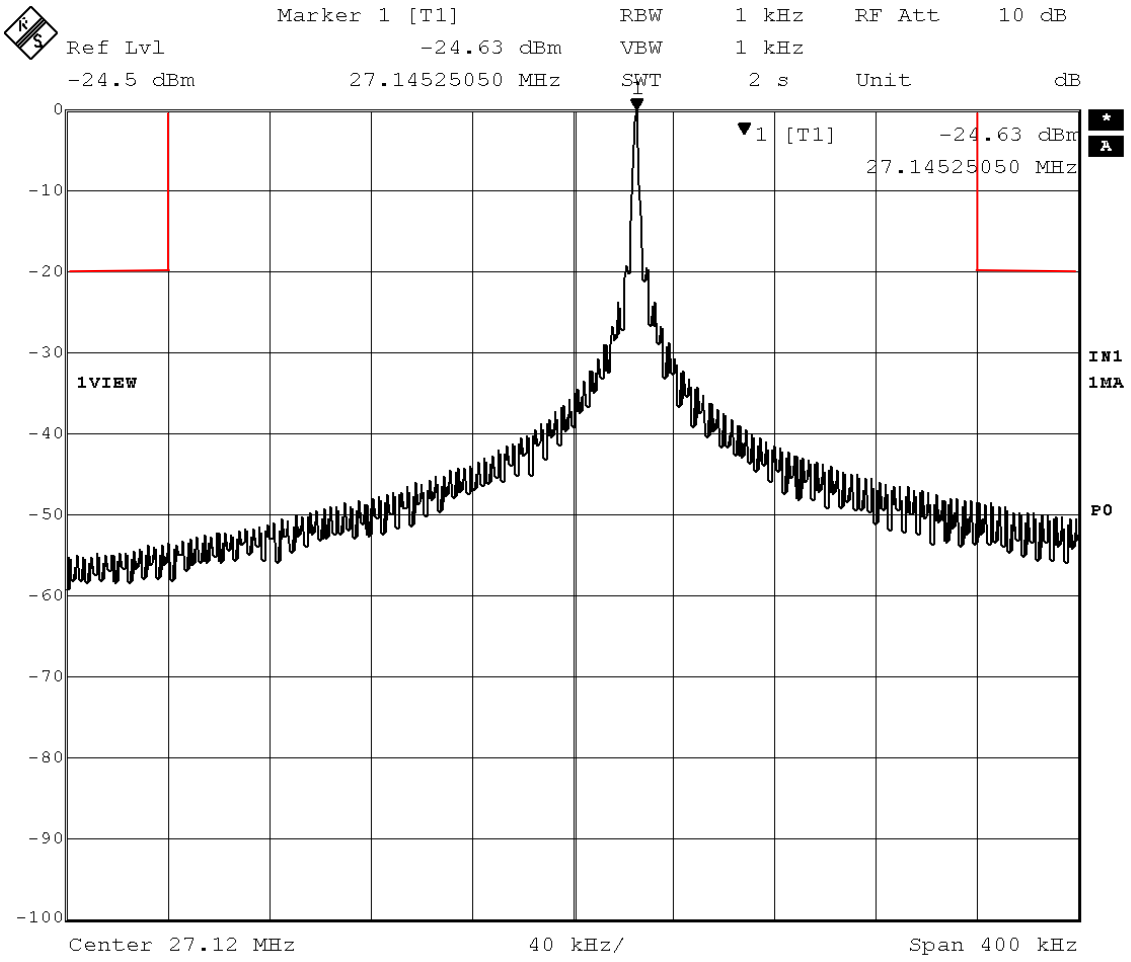
Mode of EUT : Reverse



Emission Limitation

FCC ID : CVTTA7752
Model : TA7752

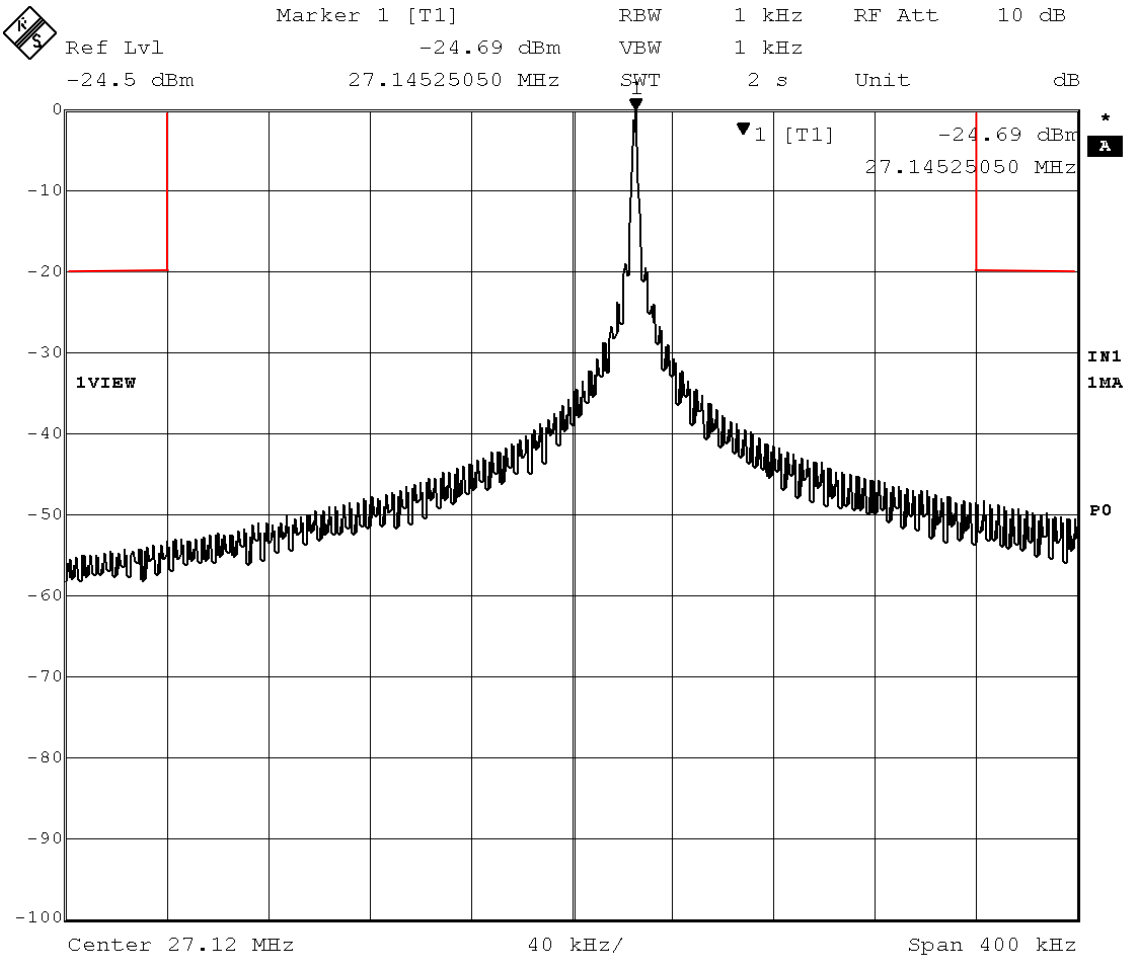
Mode of EUT : Reverse Left



Emission Limitation

FCC ID : CVTTA7752
Model : TA7752

Mode of EUT : Reverse Right



Appendix

Test Instruments List

No	Type	Model	Manufacturer	Serial	ID	31-Jan-2008 Last Cal.	Interval
Test Facilities:							
1	Anechoic Chamber A	-	TDK	-	800-01-502E0	Mar 2007	1 Year
2	Anechoic Chamber B	-	TDK	-	800-01-503E0	Mar 2007	1 Year
3	Shield Room A	-	TDK	-	800-01-501E0	-	-
4	Shield Room B	-	Ray Proof	-	800-01-010E0	-	-
5	Shield Room C	-	TDK	-	800-01-504E0	-	-
6	Shield Room D	-	Emerson	-	800-01-022E0	-	-
7	Shield Room E	-	TDK	-	800-01-505E0	-	-
Measuring Instruments:							
10	Test Receiver	ESHS10	Rohde & Schwarz	835871/004	119-01-505E0	Apr 2007	1 Year
11	Test Receiver	ESVS10	Rohde & Schwarz	826148/002	119-03-504E0	Apr 2007	1 Year
12	Test Receiver	ESVS10	Rohde & Schwarz	832699/001	119-03-506E0	Apr 2007	1 Year
13	Test Receiver	ESI26	Rohde & Schwarz	100043	119-04-511E0	Sep 2007	1 Year
14	Spectrum Analyzer	R3182	Advantest	120600581	122-02-521E0	Mar 2007	1 Year
17	Spectrum Analyzer	8566B	Hewlett Packard	2747A05855	122-02-517E0	Apr 2007	1 Year
18	RF Pre-selector	85685A	Hewlett Packard	2901A00933	122-02-519E0	Apr 2007	1 Year
19	Spectrum Analyzer	R3132	Advantest	120500072	122-02-520E0	Sep 2007	1 Year
20	Spectrum Analyzer	R3132	Advantest	150400998	122-02-523E0	Jul 2007	1 Year
65	Power Meter	436A	Hewlett Packard	1725A01930	100-02-501E0	Apr 2007	1 Year
66	Power Sensor	8482A	Hewlett Packard	1551A01013	100-02-501E0	Apr 2007	1 Year
67	Power Sensor	8485A	Hewlett Packard	2942A08969	100-04-021E0	Apr 2007	1 Year
68	FM Linear Detector	MS61A	Anritsu	M77486	123-02-008E0	Oct 2007	1 Year
69	Level Meter	ML422C	Anritsu	M87571	114-02-501E0	Jun 2007	1 Year
70	Measuring Amplifier	2636	B & K	1614851	082-01-502E0	May 2007	1 Year
75	Frequency Counter	53131A	Hewlett Packard	3546A11807	102-02-075E0	May 2007	1 Year
83	FFT Analyzer	R9211C	Advantest	02020253	122-02-506E0	Jun 2007	1 Year
84	Noise Meter	MN-446	Meguro	53030478	082-01-144E0	Apr 2007	1 Year
86	Peak Power Analyzer	8990A/84815A	Hewlett Packard	3220A00486/ 3227A00118	100-02-016E0	Apr 2007	1 Year
163	Digital Oscilloscope	54502A	Hewlett Packard	2934A05573	121-02-502E0	May 2007	1 Year
165	Multimeter	VOAC7413	Iwatsu Electric	0267973	114-02-502E0	Apr 2007	1 Year
172	Test Receiver	ESCI	Rohde & Schwarz	100408	119-04-512E0	Sep 2007	1 Year
Antennas:							
21	Loop Antenna	HFH2-Z2	Rohde & Schwarz	881058/62	119-05-033E0	Jun 2007	1 Year
22	Dipole Antenna	KBA-511	Kyoritsu	0-170-1	119-05-506E0	Oct 2007	1 Year
23	Dipole Antenna	KBA-511A	Kyoritsu	0-201-13	119-05-504E0	Oct 2007	1 Year
24	Dipole Antenna	KBA-611	Kyoritsu	0-147-14	119-05-507E0	Oct 2007	1 Year
25	Dipole Antenna	KBA-611	Kyoritsu	0-210-5	119-05-505E0	Oct 2007	1 Year
27	Biconical Antenna	BBA9106	Schwarzbeck	-	119-05-078E0	Nov 2007	1 Year
28	Log-periodic Antenna	UHALP9107	Schwarzbeck	-	119-05-079E0	Nov 2007	1 Year
31	Horn Antenna	3115	EMC Test Systems	6442	119-05-514E0	Jan 2008	2 Year
32	Horn Antenna	3116	EMC Test Systems	2547	119-05-515E0	May 2007	2 Year
167	Biconical Antenna	BBA9106	Schwarzbeck	VHA91032325	119-05-520E0	May 2007	1 Year
168	Log-periodic Antenna	UHALP9108A	Schwarzbeck	0666	119-05-521E0	May 2007	1 Year
169	Biconical Antenna	BBA9106	Schwarzbeck	VHA91032399	119-05-522E0	May 2007	1 Year
170	Log-periodic Antenna	UHALP9108A	Schwarzbeck	0724	119-05-523E0	May 2007	1 Year
198	Log-periodic Antenna	HL050	Rohde & Schwarz	100251	119-05-524E0	Jul 2007	1 Year

No	Type	Model	Manufacturer	Serial	ID	31-Jan-2008 Last Cal.	Interval
Cables:							
38	RF Cable	5D-2W	Fujikura	-	155-21-001E0	Feb 2007	1 Year
39	RF Cable	5D-2W	Fujikura	-	155-21-002E0	Feb 2007	1 Year
40	RF Cable	3D-2W	Fujikura	-	155-21-005E0	Apr 2007	1 Year
41	RF Cable	3D-2W	Fujikura	-	155-21-006E0	Apr 2007	1 Year
42	RF Cable	3D-2W	Fujikura	-	155-21-007E0	Apr 2007	1 Year
43	RF Cable	RG213/U	Rohde & Schwarz	-	155-21-010E0	Apr 2007	1 Year
44	RF Cable(10m)	S 04272B	Suhner	-	155-21-011E0	May 2007	1 Year
45	RF Cable(1.5m 18GHz)	S 04272B	Suhner	-	155-21-012E0	May 2007	1 Year
46	RF Cable(1m 18GHz)	SUCOFLEX	Suhner	-	155-21-013E0	May 2007	1 Year
47	RF Cable(1m N)	S 04272B	Suhner	-	155-21-015E0	Jun 2007	1 Year
48	RF Cable(1m 26GHz)	SUCOFLEX 104E	Suhner	14543/4E	155-21-016E0	Dec 2007	1 Year
49	RF Cable(4m 26GHz)	SUCOFLEX	Suhner	190630	155-21-017E0	Dec 2007	1 Year
50	RF Cable(10m)	F130-S1S1-394	MEGA PHASE	10510	155-21-018E0	Dec 2007	1 Year
51	RF Cable(5m)	3D-2W	Fujikura	-	155-21-009E0	Apr 2007	1 Year
52	RF Cable(7m)	RG223/U	Suhner	-	155-21-021E0	May 2007	1 Year
195	RF Cable(10m)	F130-S1S1-394	MEGA PHASE	20051	155-21-020E0	Apr 2007	1 Year
Networks:							
33	LISN	KNW-407	Kyoritsu	8-833-6	149-04-052E0	Apr 2007	1 Year
34	LISN	KNW-407	Kyoritsu	8-855-2	149-04-055E0	Apr 2007	1 Year
35	LISN	KNW-407	Kyoritsu	8-1130-6	149-04-062E0	Apr 2007	1 Year
36	LISN	KNW-242C	Kyoritsu	8-837-13	149-04-054E0	Apr 2007	1 Year
37	Absorbing Clamp	MDS21	Luthi	03293	119-06-506E0	Aug 2007	1 Year
164	LISN	KNW-403D	Kyoritsu	8-1474-3	149-04-059E0	Apr 2007	1 Year
173	Pulse Limiter	ESH3-Z2	Rohde & Schwarz	-	156-01-501E0	Apr 2007	1 Year
174	Pulse Limiter	ESH3-Z2	Rohde & Schwarz	-	156-01-502E0	Apr 2007	1 Year
175	Pulse Limiter	ESH3-Z2	Rohde & Schwarz	-	156-01-503E0	Apr 2007	1 Year
194	High Impedance Probe	HP-2	JQA	001	149-06-503E0	Oct 2007	1 Year
Amplifiers:							
53	AF Amplifier	P-500L	Accuphase	BOY806	127-01-501E0	Feb 2007	1 Year
54	RF Amplifier	WJ-6882-814	Watkins-Johnson	0414	127-04-017E0	Jun 2007	1 Year
55	RF Amplifier	WJ-5315-556	Watkins-Johnson	106	127-04-006E0	Jun 2007	1 Year
56	RF Amplifier	WJ-5320-307	Watkins-Johnson	645	127-04-005E0	Jun 2007	1 Year
57	RF Amplifier	JS4-00102600-28-5A	MITEQ	669167	127-04-502E0	Apr 2007	1 Year
Generators:							
58	Function Generator	3325B	Hewlett Packard	2847A03284	118-08-124E0	Jul 2007	1 Year
59	Function Generator	VP-7422A	Matsushita Communication	050351E122	118-08-503E0	Jul 2007	1 Year
60	Signal Generator	8664A	Hewlett Packard	3035A00140	118-03-014E0	May 2007	1 Year
61	Signal Generator	8664A	Hewlett Packard	3438A00756	118-04-502E0	May 2007	1 Year
62	Signal Generator	6061A	Gigatronics	5130593	118-04-024E0	Mar 2007	1 Year

No	Type	Model	Manufacturer	Serial	ID	31-Jan-2008 Last Cal.	Interval
Others:							
63	Termination(50)	-	Suhner	-	154-06-501E0	Jan 2008	1 Year
64	Termination(50)	-	Suhner	-	154-06-502E0	Jan 2008	1 Year
71	Microphone	4134	B & K	1253497	147-01-502E0	May 2007	1 Year
72	Preamplifier	2639	B & K	1268763	127-01-504E0	-	-
73	Pistonphone	4220	B & K	1165008	147-02-501E0	Mar 2007	1 Year
74	Artificial Mouth	4227	B & K	1274869	-	-	-
76	Oven	-	Ohnishi	-	023-02-018E0	-	-
77	DC Power Supply	6628A	Hewlett Packard	3224A00284	072-05-503E0	Jun 2007	1 Year
78	Band RejectFilter	BRM12294	Micro-tronics	003	149-01-501E0	Jan 2008	1 Year
79	High Pass Filter	F-100-4000-5-R	RLC Electronics	0149	149-01-502E0	Feb 2007	1 Year
80	Attenuator	43KC-10	Anritsu	-	148-03-506E0	Feb 2007	1 Year
81	Attenuator	43KC-20	Anritsu	-	148-03-507E0	Feb 2007	1 Year
82	Attenuator	355D	Hewlett Packard	219-10782	148-03-065E0	Apr 2007	1 Year
85	RF Detector	75KC-50	Anritsu	305002	100-02-506E0	Jul 2007	1 Year
200	Artificial Hand	AH-1	ES Factory	001	155-07-561E0	Jul 2007	1 Year
201	Barometer	TYPE6	Yanagi	16076	209-02-014E0	Mar 2006	2 Year
202	Thermo-Hygrometer	-	Empex	-	141-01-504E0	Mar 2007	2 Year
203	Thermo-Hygrometer	EX-2727	Empex	-	141-01-505E0	May 2007	2 Year
204	Thermo-Hygrometer	EX-2727	Empex	-	141-01-506E0	May 2007	2 Year
205	Thermo-Hygrometer	EX-2727	Empex	-	141-01-507E0	May 2007	2 Year