

Zizzle (Hong Kong) Ltd.

Application
For
Certification
(FCC ID: T5706007)

Transmitter

Sample Description : Zoundz
Model : 06007

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator,
mention 47 CFR [4-5-2005]

0611965
TL/at
June 16, 2006

- The test results reported in this report shall refer only to the sample actually tested and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained.
- This report shall not be reproduced except in full without prior authorization from Intertek Testing Services Hong Kong Limited.
- The evaluation data of the report will be kept for 3 years from the date of issuance.

FCC ID : T5706007

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LIST OF EXHIBITS

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MEASUREMENT/TECHNICAL REPORT

Zizzle (Hong Kong) Ltd. - MODEL: 06007
FCC ID: T5706007

June 16, 2006

This report concerns (check one): Original Grant Class II Change

Equipment Type: Low Power Transmitter (example: computer, printer, modem, etc.)

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes No

If yes, defer until: _____
date

Company Name agrees to notify the Commission by: _____
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37? Yes No

If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [4-5-2005 Edition] provision.

Report prepared by:

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List of attached file

Exhibit type	File Description	filename
Test Report	Test Report	report.pdf
Operation Description	Technical Description	descri.pdf
Test Setup Photo	Radiated Emission	radiated photos.doc
Test Setup Photo	Conducted Emission	conducted photos.doc
Test Report	Conducted Emission Test Result	conducted.pdf
Test Report	Bandwidth Plot	bw.pdf
External Photo	External Photo	external photos.doc
Internal Photo	Internal Photo	internal photos.doc
Block Diagram	Block Diagram	block.pdf
Schematics	Circuit Diagram	circuit.pdf
ID Label/Location	Label Artwork and Location	label.pdf
User Manual	User Manual	manual.pdf

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EXHIBIT 1

GENERAL DESCRIPTION

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1.0 **General Description**

1.1 Product Description

The equipment under test (EUT) are a transmitter for an inductive musical toy and seven powered tags operating at 13.56 MHz. The main unit (RFID reader) is controlled by a crystal and can be powered either by four AA batteries or an output 9V DC, 500 mA power adaptor. The main unit has five control buttons (Clock/Alarm, On/Sleep, Mode, Down and Up), three RFID tags sensors, a DC power jack and an audio line in jack. The Clock/Alarm button is used to set the clock, alarm and chime features of the device. The On/Sleep button is used to switch on, off and set the sleep time of the device. The mode, up and down buttons are used to set the sound effects (volume, tempo, echo and reverb) of the device. When the tags are placed on main unit, it will generate different music depending the combination of the tags. In addition, the user can record sounds onto the main unit, when the user places the cube tag on the main unit. The main unit can also act as a speaker, if the user connects it with their music device.

The brief circuit description is saved with filename : descri.pdf

1.2 Related Submittal(s) Grants

The receiver for this transmitter is exempted form the Part 15 technical rules per 15.101(b).

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1.3 Test Methodology

The radiated emission measurements were performed according to the procedures in ANSI C63.4 (2003). All measurements were performed in Open Area Test Sites. Preliminary scans were performed in the Open Area Test Sites only to determine worst case modes. All Radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the **"Justification Section"** of this Application.

1.4 Test Facility

The open area test site and conducted measurement facility used to collect the emission data is located at Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong. This test facility and site measurement data have been fully placed on file with the FCC.

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EXHIBIT 2

SYSTEM TEST CONFIGURATION

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2.0 **System Test Configuration**

2.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.4 (2003).

The EUT consists of a main unit (RFID reader) and seven powered tags.

The main unit is powered by an input 12V AC 60 Hz to output 9V DC 500 mA power adaptor during emission tests.

The tags are powered by the electromagnetic field generated from the main unit during tests.

For maximizing emission below 30 MHz, the EUT was rotated through 360°, the centre of the loop antenna was placed 1 meter above the ground, and the antenna polarization was changed. For maximizing emission above 30 MHz, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. This step by step procedure for maximizing emissions led to the data reported in Exhibit 3.0.

The unit was operated as a table system and placed in the centered laterally of the turntable.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was placed on the turntable and rotate through 360°, which enabled the engineer to maximize emissions.

2.2 EUT Exercising Software

There was no special software to exercise the device.

2.3 Special Accessories

There are no special accessories necessary for compliance of this product.

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2.4 Equipment Modification

Any modifications installed previous to testing by Zizzle (Hong Kong) Ltd. will be incorporated in each production model sold/leased in the United States.

No modifications were installed by Intertek Testing Services.

2.5 Support Equipment List and Description

1. AC to DC power adaptor, Model No.: DPX412022

(Input: 120V AC 60 Hz 9.3W, Output: 9V DC 500 mA, length of power cord: 1.8 m)
Provided by Zizzle (Hong Kong) Ltd.

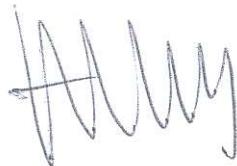
2. Sony Walkman, Model No.: WM-FX288

Provided by Intertek (EW-1738b)

All the items listed under section 2.0 of this report are

Confirmed by:

*Leung Wai Leung, Tommy
Assistant Manager
Intertek Testing Services
Agent for Zizzle (Hong Kong) Ltd.*



Signature

June 16, 2006 _____ Date

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EXHIBIT 3

EMISSION RESULTS

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3.0 Emission Results

Data is included worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

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3.1 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD + AV$$

where FS = Field Strength in $\text{dB}\mu\text{V}/\text{m}$

RA = Receiver Amplitude (including preamplifier) in $\text{dB}\mu\text{V}$

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB

AG = Amplifier Gain in dB

PD = Pulse Desensitization in dB

AV = Average Factor in -dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD + AV$$

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3.1 Field Strength Calculation (cont'd)

Example

Assume a receiver reading of 62.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB, and the resultant average factor was -10 dB. The net field strength for comparison to the appropriate emission limit is 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

$$RA = 62.0 \text{ dB}\mu\text{V}$$

$$AF = 7.4 \text{ dB}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$PD = 0 \text{ dB}$$

$$AV = -10 \text{ dB}$$

$$FS = 62 + 7.4 + 1.6 - 29 + 0 + (-10) = 32 \text{ dB}\mu\text{V/m}$$

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(32 \text{ dB}\mu\text{V/m})/20] = 39.8 \mu\text{V/m}$$

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3.2 Radiated Emission Configuration Photograph

Worst Case Radiated Emission

40.692 and 54.256 MHz

For electronic filing, the worst case radiated emission configuration photograph is saved with filename: radiated photos.doc

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3.3 Radiated Emission Data

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgement: Passed by 9.2 dB

TEST PERSONNEL:



Signature

Gary M. K. Li, Compliance Engineer

Typed/Printed Name

June 16, 2006

Date

INTERTEK TESTING SERVICES

Company: Zizzle (Hong Kong) Ltd.

Date of Test: June 12, 2006

Model: 06007

Mode: TX (Creating Music Mode – Device is powered by AC/DC Adaptor)

Sample: 1/8

Table 1
Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Antenna Factor (dB)	Pre-Amp Gain (dB)	Distance Factor (-dB)	Net at 3m (dB μ V/m)	Calculated at 30m (dB μ V/m)	Limit at 30m (dB μ V/m)	Margin (dB)
H	13.564	53.5	10.7	0.0	40.0	64.2	24.2	84.0	-59.8
H	27.128	21.9	9.2	0.0	40.0	31.1	-8.9	29.5	-38.4

Table 2
Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Antenna Factor (dB)	Pre-Amp Gain (dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
H	40.692	36.8	10	16	30.8	40.0	-9.2
H	54.256	35.6	11	16	30.6	40.0	-9.4
H	67.820	38.5	8	16	30.5	40.0	-9.5
H	81.512	39.7	7	16	30.7	40.0	-9.3
H	94.948	36.4	10	16	30.4	43.5	-13.1
H	108.512	33.0	13	16	30.0	43.5	-13.5
H	122.076	32.7	13	16	29.7	43.5	-13.8
H	135.640	32.3	13	16	29.3	43.5	-14.2

Notes: 1. Peak Detector Data unless otherwise stated.

2. All measurements were made at 3 meter. Harmonic emissions not detected at the 3 meter distance were measured at 0.3 meter and an inverse proportional extrapolation was performed to compare the signal level to the 3 meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3 meter.
3. Negative value in the margin column shows emission below limit.
4. Loop antenna is used for emissions below 30 MHz.
5. Worst case emissions were measured.

*Emission within the restricted band meets the requirement of part 15.205. The corresponding limit as per 15.209 is based on Quasi peak detector data for frequencies below 1000 MHz and peak detector data with average factor for frequencies over 1000 MHz.

Test Engineer: Gary M. K. Li

FCC ID: T5706007

INTERTEK TESTING SERVICES

Company: Zizzle (Hong Kong) Ltd.

Date of Test: June 12, 2006

Model: 06007

Mode: TX (Speaker Mode – Device is powered by AC/DC Adaptor)

Sample: 1/8

Table 3
Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Antenna Factor (dB)	Pre-Amp Gain (dB)	Distance Factor (-dB)	Net at 3m (dB μ V/m)	Calculated at 30m (dB μ V/m)	Limit at 30m (dB μ V/m)	Margin (dB)
H	13.564	51.4	10.7	0.0	40.0	62.1	22.1	84.0	-61.9
H	27.128	21.7	9.2	0.0	40.0	30.9	-9.1	29.5	-38.6

Table 4
Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Antenna Factor (dB)	Pre-Amp Gain (dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
H	40.692	36.7	10	16	30.7	40.0	-9.3
H	54.256	35.8	11	16	30.8	40.0	-9.2
H	67.820	38.6	8	16	30.6	40.0	-9.4
H	81.512	39.5	7	16	30.5	40.0	-9.5
H	94.948	36.4	10	16	30.4	43.5	-13.1
H	108.512	33.2	13	16	30.2	43.5	-13.3
H	122.076	33.1	13	16	30.1	43.5	-13.4
H	135.640	32.3	13	16	29.3	43.5	-14.2

Notes: 1. Peak Detector Data unless otherwise stated.

2. All measurements were made at 3 meter. Harmonic emissions not detected at the 3 meter distance were measured at 0.3 meter and an inverse proportional extrapolation was performed to compare the signal level to the 3 meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3 meter.
3. Negative value in the margin column shows emission below limit.
4. Loop antenna is used for emissions below 30 MHz.
5. Worst case emissions were measured.

*Emission within the restricted band meets the requirement of part 15.205. The corresponding limit as per 15.209 is based on Quasi peak detector data for frequencies below 1000 MHz and peak detector data with average factor for frequencies over 1000 MHz.

Test Engineer: Gary M. K. Li

FCC ID: T5706007

INTERTEK TESTING SERVICES

Company: Zizzle (Hong Kong) Ltd.

Date of Test: June 12, 2006

Model: 06007

Mode: Sound Effect and Flashing LEDs

(Creating Music Mode – Device is powered by AC/DC Adaptor)

Sample: 1/8

Table 5
Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Antenna Factor (dB)	Pre-Amp Gain (dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
V	32.610	33.5	10	16	27.5	40.0	-12.5
V	35.324	33.8	10	16	27.8	40.0	-12.2
V	38.431	34.3	10	16	28.3	40.0	-11.7
V	41.956	34.1	10	16	28.1	40.0	-11.9
V	44.524	33.9	10	16	27.9	40.0	-12.1
V	47.016	32.5	11	16	27.5	40.0	-12.5

Notes: 1. Peak Detector Data unless otherwise stated.

2. All measurements were made at 3 meter. Harmonic emissions not detected at the 3 meter distance were measured at 0.3 meter and an inverse proportional extrapolation was performed to compare the signal level to the 3 meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3 meter.
3. Negative value in the margin column shows emission below limit.
4. Worst case emissions were measured.

Test Engineer: Gary M. K. Li

INTERTEK TESTING SERVICES

Company: Zizzle (Hong Kong) Ltd.

Date of Test: June 12, 2006

Model: 06007

Mode: Speaker Mode (Device is powered by AC/DC Adaptor)

Sample: 1/8

Table 6
Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Antenna Factor (dB)	Pre-Amp Gain (dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
V	32.768	33.4	10	16	27.4	40.0	-12.6
V	35.061	33.8	10	16	27.8	40.0	-12.2
V	38.010	34.3	10	16	28.3	40.0	-11.7
V	41.001	34.2	10	16	28.2	40.0	-11.8
V	44.237	33.9	10	16	27.9	40.0	-12.1
V	47.186	32.4	11	16	27.4	40.0	-12.6

Notes: 1. Peak Detector Data unless otherwise stated.

2. All measurements were made at 3 meter. Harmonic emissions not detected at the 3 meter distance were measured at 0.3 meter and an inverse proportional extrapolation was performed to compare the signal level to the 3 meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3 meter.
3. Negative value in the margin column shows emission below limit.
4. Worst case emissions were measured.

Test Engineer: Gary M. K. Li

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3.4 Conducted Emission Configuration Photograph

**Worst Case Line-Conducted Configuration
at
13.565 MHz**

For electronic filing, the worst case line-conducted configuration photograph are saved with filename: conducted photos.doc.

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3.5 Conducted Emission Data

For electronic filing, the graph and data table of conducted emission is saved with filename: conducted.pdf.

QP Passed by 2.6 dB

AV Passed by 5.0 dB

TEST PERSONNEL:



Signature

Gary M. K Li, Compliance Engineer
Typed/Printed Name

June 16, 2006
Date

INTERTEK TESTING SERVICES

3.6 Frequency Tolerance

FCC Part 15 Section 15.225(e)

Data Table
Frequency tolerance of Transmitter
(Temperature Variation : -20°C to +50°C)

Operating frequency			13.563642 MHz	
Test Voltage (V)	Temperature (°C)	Measured frequency (MHz)	Frequency shift (%)	Limit (%)
DC 6	+50	13.563572	-0.00052	±0.01
	+40	13.563583	-0.00043	±0.01
	+30	13.563601	-0.00030	±0.01
	+20	13.563642	0	±0.01
	+10	13.563673	+0.00023	±0.01
	0	13.563667	+0.00018	±0.01
	-10	13.563622	-0.00015	±0.01
	-20	13.563584	-0.00043	±0.01

We found that the EUT met the requirement of FCC Part 15 Section 15.225(e).

Remarks: The device is powered by four new AA batteries.

Test Engineer: Gary M. K. Li

FCC ID: T5706007

INTERTEK TESTING SERVICES

3.6 Frequency Tolerance

FCC Part 15 Section 15.225(e)

Data Table
Frequency tolerance of Transmitter
(Temperature Variation : -20°C to +50°C)

Operating frequency			13.563630 MHz	
Test Voltage (V)	Temperature (°C)	Measured frequency (MHz)	Frequency shift (%)	Limit (%)
AC 120	+50	13.563559	-0.00052	±0.01
	+40	13.563577	-0.00039	±0.01
	+30	13.563605	-0.00018	±0.01
	+20	13.563630	0	±0.01
	+10	13.563679	+0.00036	±0.01
	0	13.563662	+0.00024	±0.01
	-10	13.563648	+0.00013	±0.01
	-20	13.563582	-0.00035	±0.01

We found that the EUT met the requirement of FCC Part 15 Section 15.225(e).

Remarks: The device is powered by an input 120V AC to output 9V DC power adaptor.

Test Engineer: Gary M. K. Li

FCC ID: T5706007

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3.6 Frequency Tolerance

FCC Part 15 Section 15.225(e)

Data Table
Frequency Deviation with Voltage Variation

Operating frequency		13.563630 MHz		
Temperature (°C)	Test Voltage (V)	Measured frequency (MHz)	Frequency shift (%)	Limit (%)
20	AC138	13.563663	+0.00024	±0.01
	AC120	13.563630	0	±0.01
	AC102	13.563619	-0.00008	±0.01

We found that the EUT met the requirement of FCC Part 15 Section 15.225(e).

Remarks: The device is powered by an input 120V AC to output 9V DC power adaptor.

Test Engineer: Gary M. K. Li

FCC ID: T5706007

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EXHIBIT 4

EQUIPMENT PHOTOGRAPHS

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4.0 Equipment Photographs

For electronic filing, the photographs are saved with filename:
external photos.doc and internal photos.doc

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EXHIBIT 5

PRODUCT LABELLING

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5.0 Product Labelling

For electronic filing, the FCC ID label artwork and the label location are saved with filename: label.pdf

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EXHIBIT 6

TECHNICAL SPECIFICATIONS

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6.0 Technical Specifications

For electronic filing, the block diagram and schematics are saved with filename: block.pdf and circuit.pdf

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EXHIBIT 7

INSTRUCTION MANUAL

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7.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf

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EXHIBIT 8

MISCELLANEOUS INFORMATION

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8.0 Miscellaneous Information

This miscellaneous information includes details of the measured bandwidth and the test procedure.

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8.1 Measured Bandwidth

The plot saved in bw.pdf which shows the fundamental emission is confined in the specified band. It meets the requirement of Section 15.225(b), (c) & (d).

Figure 8.1 Bandwidth

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8.2 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services in the measurements of transmitters operating under Part 15, Subpart C rules.

The test set-up and procedures described below are designed to meet the requirements of ANSI C63.4 - 2003.

The transmitting equipment under test (EUT) is placed on a wooden turntable which is four feet in diameter and approximately one meter in height above the ground plane. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The antenna height and polarization are varied during the testing to search for maximum signal levels.

Detector function for radiated emissions is in peak mode. Average readings, when required, are taken by measuring the duty cycle of the equipment under test and subtracting the corresponding amount in dB from the measured peak readings.

The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower. For line conducted emissions, the range scanned is 150 kHz to 30 MHz.

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8.2 Emissions Test Procedures (cont'd)

The EUT is warmed up for 15 minutes prior to the test.

AC power to the unit is varied from 85% to 115% nominal and variation in the fundamental emission field strength is recorded. If battery powered, a new, fully charged battery is used.

Conducted measurements are made as described in ANSI C63.4 - 2003.

The IF bandwidth used for measurement of radiated signal strength was 10 kHz for emission below 30 MHz and 120 kHz for emission from 30 MHz to 1000 MHz. Above 1000 MHz, a resolution bandwidth of 1 MHz is used.

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the restricted bands and above 1 GHz, signals are acquired at a distance of one meter or less. All measurements are extrapolated to three meters using inverse scaling, but those measurements taken at a closer distance are so marked.

1. When determining the test result, the Measurement Uncertainty of the test has been considered.
2. This test report is issued to the Company indicated based on the request of the Applicant of the product mentioned in this report.