



MPE TEST REPORT

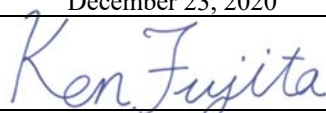
Test Report No.: 13558632H-D-R1

Applicant : Yamaha Corporation
Type of EUT : Desktop Audio System
Model Number of EUT : TSX-N237
FCC ID : A6RTSXN237
Test standard : FCC rule §1.1310
Radiofrequency radiation exposure limits.
*This test report has issued for MPE testing by wireless charger according to KDB 680106 D01 v03r01.
Test Result : Complied (Refer to SECTION 3.2)

1. This test report shall not be reproduced in full or partial, without the written approval of UL Japan, Inc.
2. The results in this report apply only to the sample tested.
3. This sample tested is in compliance with the limits of the above standard.
4. The test results in this test report are traceable to the national or international standards.
5. This test report must not be used by the customer to claim product certification, approval, or endorsement by the A2LA accreditation body.
6. This test report covers Radio technical requirements. It does not cover administrative issues such as Manual or non-Radio test related Requirements. (if applicable)
7. The all test items in this test report are conducted by UL Japan, Inc. Ise EMC Lab.
8. The opinions and the interpretations to the result of the description in this report are outside scopes where UL Japan has been accredited.
9. The information provided from the customer for this report is identified in Section 1.
10. This report is a revised version of 13558632H-D. 13558632H-D is replaced with this report.

Date of test: December 23, 2020

Representative test engineer:


Ken Fujita
Engineer
Consumer Technology Division

Approved by:


Tsubasa Takayama
Leader
Consumer Technology Division



CERTIFICATE 5107.02

- The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan.
 There is no testing item of "Non-accreditation".

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REVISION HISTORY

Original Test Report No.: 13558632H-D

Revision	Test report No.	Date	Page revised	Contents
- (Original)	13558632H-D	January 27, 2021	-	-
1	13558632H-D-R1	February 3, 2021	P.8	Correction of description c) in Clause 3.2
1	13558632H-D-R1	February 3, 2021	P.11	Change the cable number 2 to 3, 3 to 2 in configuration diagram of Clause 4.2.
1	13558632H-D-R1	February 3, 2021	corresponding page (for original report)	Deletion of contents related to Mode 1 and Mode 2.

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Reference: Abbreviations (Including words undescribed in this report)

A2LA	The American Association for Laboratory Accreditation	LIMS	Laboratory Information Management System
AC	Alternating Current	MCS	Modulation and Coding Scheme
AFH	Adaptive Frequency Hopping	MRA	Mutual Recognition Arrangement
AM	Amplitude Modulation	N/A	Not Applicable
Amp, AMP	Amplifier	NIST	National Institute of Standards and Technology
ANSI	American National Standards Institute	NS	No signal detect.
Ant, ANT	Antenna	NSA	Normalized Site Attenuation
AP	Access Point	NVLAP	National Voluntary Laboratory Accreditation Program
ASK	Amplitude Shift Keying	OBW	Occupied Band Width
Atten., ATT	Attenuator	OFDM	Orthogonal Frequency Division Multiplexing
AV	Average	P/M	Power meter
BPSK	Binary Phase-Shift Keying	PCB	Printed Circuit Board
BR	Bluetooth Basic Rate	PER	Packet Error Rate
BT	Bluetooth	PHY	Physical Layer
BT LE	Bluetooth Low Energy	PK	Peak
BW	BandWidth	PN	Pseudo random Noise
Cal Int	Calibration Interval	PRBS	Pseudo-Random Bit Sequence
CCK	Complementary Code Keying	PSD	Power Spectral Density
Ch., CH	Channel	QAM	Quadrature Amplitude Modulation
CISPR	Comite International Special des Perturbations Radioelectriques	QP	Quasi-Peak
CW	Continuous Wave	QPSK	Quadrature Phase Shift Keying
DBPSK	Differential BPSK	RBW	Resolution Band Width
DC	Direct Current	RDS	Radio Data System
D-factor	Distance factor	RE	Radio Equipment
DFS	Dynamic Frequency Selection	RF	Radio Frequency
DQPSK	Differential QPSK	RMS	Root Mean Square
DSSS	Direct Sequence Spread Spectrum	RSS	Radio Standards Specifications
DUT	Device Under Test	Rx	Receiving
EDR	Enhanced Data Rate	SA, S/A	Spectrum Analyzer
EIRP, e.i.r.p.	Equivalent Isotropically Radiated Power	SG	Signal Generator
EMC	ElectroMagnetic Compatibility	SVSWR	Site-Voltage Standing Wave Ratio
EMI	ElectroMagnetic Interference	TR	Test Receiver
EN	European Norm	Tx	Transmitting
ERP, e.r.p.	Effective Radiated Power	VBW	Video BandWidth
ETSI	European Telecommunications Standards Institute	Vert.	Vertical
EU	European Union	WLAN	Wireless LAN
EUT	Equipment Under Test		
Fac.	Factor		
FCC	Federal Communications Commission		
FHSS	Frequency Hopping Spread Spectrum		
FM	Frequency Modulation		
Freq.	Frequency		
FSK	Frequency Shift Keying		
GFSK	Gaussian Frequency-Shift Keying		
GNSS	Global Navigation Satellite System		
GPS	Global Positioning System		
Hori.	Horizontal		
ICES	Interference-Causing Equipment Standard		
IEC	International Electrotechnical Commission		
IEEE	Institute of Electrical and Electronics Engineers		
IF	Intermediate Frequency		
ILAC	International Laboratory Accreditation Conference		
ISED	Innovation, Science and Economic Development Canada		
ISO	International Organization for Standardization		
JAB	Japan Accreditation Board		
LAN	Local Area Network		

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SECTION 1 : Customer information

Company Name : Yamaha Corporation
Address : 10-1 Nakazawa-cho, Naka-ku, Hamamatsu-shi, Shizuoka-ken
430-8650, Japan
Telephone Number : +81-53-460-2376
Facsimile Number : +81-53-460-2379
Contact Person : Kenji Kawasaki

The information provided from the customer is as follows;

- Applicant, Type of EUT, Model Number of EUT, FCC ID on the cover and other relevant pages
- Operating/Test Mode(s) (Mode(s)) on all the relevant pages
- SECTION 1: Customer information
- SECTION 2: Equipment under test (EUT) other than the Receipt Date
- SECTION 4: Operation of EUT. during testing

* The laboratory is exempted from liability of any test results affected from the above information in SECTION 2 and 4.

SECTION 2 : Equipment under test (EUT)

2.1 Identification of EUT

Type : Desktop Audio System
Model Number : TSX-N237
Serial Number : Refer to SECTION 4.2
Rating : AC 120 V, 60 Hz (power consumption: 42 W)
Receipt Date : December 7, 2020
Country of Mass-production : Malaysia
Condition : Production prototype
(Not for Sale: This sample is equivalent to mass-produced items.)
Modification : No Modification by the test lab

2.2 Product Description

Model: TSX-N237 (referred to as the EUT in this report) is a Desktop Audio System.

General Specification

Clock frequency in the system : 4.5 GHz
(maximum)

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Radio Specification

[Wireless power transmission systems] *1)

Operating Frequency	: 127.7 kHz
Rated Output Power	: 5 W (BPP), 10 W (EPP)
Coil system	: Single Coil
Charging distance	: Contact
Operating Temperature	: 5 deg. C to +35 deg. C

[WLAN / Bluetooth]

Common	
Power Supply	DC 3.7 V
Power consumption	4.21 W
Clock frequencies in the system	25 MHz, 37.4 MHz, 32.768 kHz, 800 MHz, 1 GHz
Country of Origin	China

R0	WLAN		Bluetooth (Class 2)
Equipment Radio Type	Transceiver	Transceiver	Transceiver
Frequency of Operation	2412 MHz - 2472 MHz	5180 MHz - 5825 MHz	2402 MHz - 2480 MHz
Type of Modulation	DSSS OFDM	OFDM	FHSS (GFSK, $\pi/4$ DQPSK, 8DQPSK)
Method of frequency generation	Synthesizer	Synthesizer	Synthesizer
Bandwidth	20 MHz	20 MHz	1 MHz
Channel Spacing	5 MHz	20 MHz	1 MHz
Standard / Version	IEEE 802.11b/g/n (20 MHz)	IEEE 802.11a/n/ac (20 MHz)	4.2 (except BLE)
Antenna Gain (Including Cable Loss)	3.01 dBi	3.99 dBi	3.01 dBi

R1	WLAN
Equipment Radio Type	Transceiver
Frequency of Operation	5180 MHz - 5825 MHz
Type of Modulation	OFDM
Method of frequency generation	Synthesizer
Bandwidth	20 MHz
Channel Spacing	20 MHz
Standard / Version	IEEE 802.11a/n/ac (20 MHz)
Antenna Gain (Including Cable Loss)	3.62 dBi

*1) This test report applies to Wireless power transmission systems.

*Test limit was applied to the test limit of 100 kHz - 300 kHz based on FCC rule Section 1.1310, according to KDB 680106 D01 RF Exposure Wireless Charging Apps Clause 3).

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SECTION 3 : Test specification, procedures and results

3.1 Test specification

Title : FCC rule §1.1310 Radiofrequency radiation exposure limits.

Purpose of test : Compliance with Radiofrequency radiation exposure limits.

3.2 Procedures & results

Item	Test Procedure	Limits	Deviation	Worst Margin	Result
MPE Limit	KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01	Table 1(B)	N/A	Refer to section.5	Complied

*These tests were performed without any deviations from test procedure.

Table 1—Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3 - 3.0	614	1.63	*(100)	6
3.0 - 30	1842/f	4.89/f	*(900/f ²)	6
30 - 300	61.4	0.163	1.0	6
300 - 1500			f/300	6
1500 - 100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3 - 1.34	614	1.63	*(100)	30
1.34 - 30	824/f	2.19/f	*(180/f ²)	30
30 - 300	27.5	0.073	0.2	30
300 - 1500			f/1500	30
1500 - 100,000			1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

Note 1 to Table 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

Note 2 to Table 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

Test limit was applied to the test limit of 100 kHz - 300 kHz based on FCC rule Section 1.1310, according to KDB 680106 D01 RF Exposure Wireless Charging Apps Section 3 c).

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KDB 680106 D01 RF Exposure Wireless Charging Apps requires following contents in order to exclude RF exposure evaluation.

- a). Power transfer frequency is less than 1 MHz.
- b). Output power from each primary coil is less than or equal to 15 watts.
- c). The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.
- d). Client device is placed directly in contact with the transmitter.
- e). Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
- f). The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.

All requests were complied.

Also, Test data used Exposure Level Tester is complied KDB 680106 D01 RF Exposure Wireless Charging Apps Section 3 c).

3.3 Confirmation

UL Japan, Inc. hereby confirms that EUT, in the configuration tested, complies with the specifications KDB 680106 D01 RF Exposure Wireless Charging Apps.

And Model: TSX-N237 (referred to as the EUT in this report) is a Desktop Audio System.

3.4 Uncertainty

Although this standard determines only the limit value of uncertainty, there is no applicable rule of uncertainty in this. Therefore, the following results are derived depending on whether or not laboratory uncertainty is applied.

EMF

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor $k = 2$.

1 Hz - 400 kHz (H-Field) ELT400	9.23 %
100 kHz - 3 GHz (E-Field) SEF-01, SEF-05	24.16 %

*The worst value in the test range was applied.

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3.5 Test Location

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*A2LA Certificate Number: 5107.02 / FCC Test Firm Registration Number: 199967

ISED Lab Company Number: 2973C / CAB identifier: JP0002

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Test site	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Other rooms	Maximum measurement distance
No.1 semi-anechoic chamber	19.2 x 11.2 x 7.7	7.0 x 6.0	No.1 Power source room	10 m
No.2 semi-anechoic chamber	7.5 x 5.8 x 5.2	4.0 x 4.0	-	3 m
No.3 semi-anechoic chamber	12.0 x 8.5 x 5.9	6.8 x 5.75	No.3 Preparation room	3 m
No.3 shielded room	4.0 x 6.0 x 2.7	N/A	-	-
No.4 semi-anechoic chamber	12.0 x 8.5 x 5.9	6.8 x 5.75	No.4 Preparation room	3 m
No.4 shielded room	4.0 x 6.0 x 2.7	N/A	-	-
No.5 semi-anechoic chamber	6.0 x 6.0 x 3.9	6.0 x 6.0	-	-
No.5 measurement room	6.4 x 6.4 x 3.0	6.4 x 6.4	-	-
No.6 shielded room	4.0 x 4.5 x 2.7	4.0 x 4.5	-	-
No.6 measurement room	4.75 x 5.4 x 3.0	4.75 x 4.15	-	-
No.7 shielded room	4.7 x 7.5 x 2.7	4.7 x 7.5	-	-
No.8 measurement room	3.1 x 5.0 x 2.7	3.1 x 5.0	-	-
No.9 measurement room	8.8 x 4.6 x 2.8	2.4 x 2.4	-	-
No.11 measurement room	6.2 x 4.7 x 3.0	4.8 x 4.6	-	-

* Size of vertical conducting plane (for Conducted Emission test) : 2.0 x 2.0 m for No.1, No.2, No.3, and No.4 semi-anechoic chambers and No.3 and No.4 shielded rooms.

3.6 Test data, Test instruments, and Test set up

Refer to APPENDIX.

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SECTION 4 : Operation of EUT during testing

4.1 Operating modes

The EUT exercise program used during testing was designed to exercise the various system components in a manner similar to typical use. Test configuration was adjusted maximum output power of EUT.

Test mode	Remarks
1) Normal Operating mode Transmit power:10 W Frequency: 127.7 kHz (Un-mod) Modulation: FSK (Pos/Depth 31.25 ns)	Mode 1
2) Normal Operating mode Transmit power:10 W Frequency: 127.7 kHz (Un-mod) Modulation: FSK (Pos/Depth 62.5 ns)	Mode 2
3) Normal Operating mode Transmit power:10 W Frequency: 127.7 kHz (Un-mod) Modulation: FSK (Pos/Depth 125 ns)	Mode 3
4) Normal Operating mode Transmit power: 10 W Frequency: 127.7 kHz (Un-mod) Modulation: FSK (Pos/Depth 250 ns)	Mode 4
5) Normal Operating mode Transmit power: 10 W Frequency: 127.7 kHz (Un-mod) Modulation: FSK (Neg/Depth 31.25 ns)	Mode 5
6) Normal Operating mode Transmit power: 10 W Frequency: 127.7 kHz (Un-mod) Modulation: FSK (Neg/Depth 62.5 ns)	Mode 6
7) Normal Operating mode Transmit power: 10 W Frequency: 127.7 kHz (Un-mod) Modulation: FSK (Neg/Depth 125 ns)	Mode 7
8) Normal Operating mode Transmit power: 10 W Frequency: 127.7 kHz (Un-mod) Modulation: FSK (Neg/Depth 250 ns)	Mode 8

Justification : The system was configured in typical fashion (as a user would normally use it) for testing.

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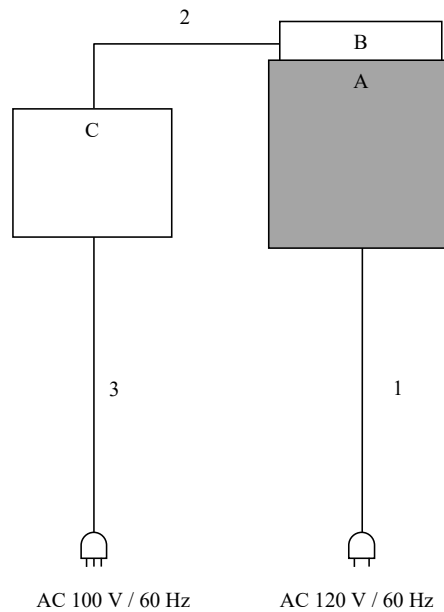
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4.2 Configuration and peripherals



* Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.

Description of EUT and Support equipment

No.	Item	Model number	Serial number	Manufacturer	Remarks
A	Desktop Audio System	TSX-N237	Y010270XZ	Yamaha Corporation	EUT
B	Reference receiver	TPR#MP1B	1	Nok9	-
C	Qi Reference Tester	CATSII Qi BST	200134-1807	Nok9	-

List of cables used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	AC Cable	1.6	Unshielded	Unshielded	-
2	Communication Cable	0.6	Shielded	Shielded	-
3	AC Cable	1.5	Unshielded	Unshielded	-

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SECTION 5 : MPE Limit [KDB 680106 Section 3) (FCC §1.1310)]

5.1. Operating environment

This test was carried out in No.6 shielded room

Date : December 23, 2020
Temperature : 22 deg. C
Humidity : 32 % RH
Engineer : Ken Fujita

5.2. Test configuration

The EUT was placed on a non-metallic of 0.8m above the reference ground plane.
Worst position is shown in the photos in Appendix 2.

5.3. Test conditions

EUT position : Table top

5.4. Test procedure

The test of the weighted result has been performed using time domain evaluation.

Sensor locations : Around from 15 cm to 40 cm

5.5. Results

Summary of the test results : Complied

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APPENDIX 1: Test data

Magnetic field strength

Report No. 13558632H
Test place Ise EMC Lab. No.7 shielded room
Date December 23, 2020
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Ken Fujita
Mode Mode 1

Operating Frequency	0.1277 MHz
	1.63 A/m *1)

Measurement distance *2)	Front		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2487	0.1979	pass
20cm	0.2331	0.1854	pass
30cm	0.2330	0.1854	pass
40cm	0.2233	0.1776	pass
Measurement distance *2)	Rear		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2612	0.2078	pass
20cm	0.2333	0.1856	pass
30cm	0.2280	0.1814	pass
40cm	0.2260	0.1798	pass
Measurement distance *2)	Left		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2340	0.1862	pass
20cm	0.2290	0.1822	pass
30cm	0.2270	0.1806	pass
40cm	0.2250	0.1790	pass
Measurement distance *2)	Right		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2501	0.1990	pass
20cm	0.2361	0.1878	pass
30cm	0.2340	0.1862	pass
40cm	0.2260	0.1798	pass
Measurement distance *2)	Top		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	1.0098	0.8034	pass
20cm	0.5562	0.4425	pass
30cm	0.2632	0.2094	pass
40cm	0.2340	0.1862	pass

*1): For this limit value, "General Population / Uncontrolled Exposure" of FCC § 1.1310 (e) (B) was used.

*2): This is the distance between the center of the probe and the edges of the EUT.

*3): This value was calculated by following formula.

$$\text{Magnetic field strength [A/m]} = \text{Magnetic density} / 4\pi \times 10^{-7}$$

*Test result is less than 50 % of the MPE limit.

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Electro-magnetic field strength

Report No. 13558632H
Test place Ise EMC Lab. No.7 shielded room
Date December 23, 2020
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Ken Fujita
Mode Mode 1

Operating Frequency	0.1277 MHz
Limit	614.00 V/m

*1)

*2)	Front		Rear		Right		Left		Top	
	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result
15cm	1.02	pass	0.45	pass	0.30	pass	0.42	pass	0.67	pass
20cm	0.55	pass	0.31	pass	0.28	pass	0.31	pass	0.48	pass
30cm	0.17	pass	0.18	pass	0.18	pass	0.18	pass	0.40	pass
40cm	0.17	pass	0.17	pass	0.16	pass	0.17	pass	0.39	pass

*1): For this limit value, "General Population / Uncontrolled Exposure" of FCC § 1.1310 (e) (B) was used.

*2): This is the distance between the center of the probe and the edges of the EUT.

*Test result is less than 50 % of the MPE limit.

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Magnetic field strength

Report No. 13558632H
Test place Ise EMC Lab. No.7 shielded room
Date December 23, 2020
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Ken Fujita
Mode Mode 2

Operating Frequency	0.1277 MHz
	1.63 A/m *1)

Measurement distance *2)	Front		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2560	0.2037	pass
20cm	0.2410	0.1917	pass
30cm	0.2330	0.1854	pass
40cm	0.2290	0.1822	pass
Measurement distance *2)	Rear		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2540	0.2021	pass
20cm	0.2410	0.1917	pass
30cm	0.2340	0.1862	pass
40cm	0.2280	0.1814	pass
Measurement distance *2)	Left		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2440	0.1941	pass
20cm	0.2370	0.1885	pass
30cm	0.2300	0.1830	pass
40cm	0.2280	0.1814	pass
Measurement distance *2)	Right		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2510	0.1997	pass
20cm	0.2430	0.1933	pass
30cm	0.2380	0.1893	pass
40cm	0.2310	0.1838	pass
Measurement distance *2)	Top		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	1.0030	0.7979	pass
20cm	0.5670	0.4511	pass
30cm	0.2650	0.2108	pass
40cm	0.2320	0.1846	pass

*1): For this limit value, "General Population / Uncontrolled Exposure" of FCC § 1.1310 (e) (B) was used.

*2): This is the distance between the center of the probe and the edges of the EUT.

*3): This value was calculated by following formula.

$$\text{Magnetic field strength [A/m]} = \text{Magnetic density} / 4\pi \times 10^{-7}$$

*Test result is less than 50 % of the MPE limit.

Electro-magnetic field strength

Report No. 13558632H
Test place Ise EMC Lab. No.7 shielded room
Date December 23, 2020
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Ken Fujita
Mode Mode 2

Operating Frequency	0.1277 MHz
Limit	614.00 V/m *1)

*2)	Front		Rear		Right		Left		Top	
	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result
15cm	1.08	pass	0.50	pass	0.31	pass	0.33	pass	0.77	pass
20cm	0.57	pass	0.41	pass	0.27	pass	0.24	pass	0.51	pass
30cm	0.21	pass	0.17	pass	0.17	pass	0.17	pass	0.46	pass
40cm	0.17	pass	0.16	pass	0.15	pass	0.16	pass	0.43	pass

*1): For this limit value, "General Population / Uncontrolled Exposure" of FCC § 1.1310 (e) (B) was used.

*2): This is the distance between the center of the probe and the edges of the EUT.

*Test result is less than 50 % of the MPE limit.

Magnetic field strength

Report No. 13558632H
Test place Ise EMC Lab. No.7 shielded room
Date December 23, 2020
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Ken Fujita
Mode Mode 3

Operating Frequency	0.1277 MHz
	1.63 A/m *1)

Measurement distance *2)	Front		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2490	0.1981	pass
20cm	0.2410	0.1917	pass
30cm	0.2370	0.1885	pass
40cm	0.2310	0.1838	pass
Measurement distance *2)	Rear		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2550	0.2029	pass
20cm	0.2370	0.1885	pass
30cm	0.2270	0.1806	pass
40cm	0.2230	0.1774	pass
Measurement distance *2)	Left		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2440	0.1941	pass
20cm	0.2310	0.1838	pass
30cm	0.2300	0.1830	pass
40cm	0.2280	0.1814	pass
Measurement distance *2)	Right		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2490	0.1981	pass
20cm	0.2400	0.1909	pass
30cm	0.2310	0.1838	pass
40cm	0.2250	0.1790	pass
Measurement distance *2)	Top		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	1.0080	0.8019	pass
20cm	0.5570	0.4431	pass
30cm	0.2730	0.2172	pass
40cm	0.2360	0.1877	pass

*1): For this limit value, "General Population / Uncontrolled Exposure" of FCC § 1.1310 (e) (B) was used.

*2): This is the distance between the center of the probe and the edges of the EUT.

*3): This value was calculated by following formula.

$$\text{Magnetic field strength [A/m]} = \text{Magnetic density} / 4\pi \times 10^{-7}$$

*Test result is less than 50 % of the MPE limit.

Electro-magnetic field strength

Report No. 13558632H
Test place Ise EMC Lab. No.7 shielded room
Date December 23, 2020
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Ken Fujita
Mode Mode 3

Operating Frequency	0.1277 MHz
Limit	614.00 V/m *1)

*2)	Front		Rear		Right		Left		Top	
	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result
15cm	1.07	pass	0.45	pass	0.32	pass	0.41	pass	0.79	pass
20cm	0.61	pass	0.31	pass	0.29	pass	0.31	pass	0.52	pass
30cm	0.17	pass	0.18	pass	0.18	pass	0.18	pass	0.44	pass
40cm	0.17	pass	0.17	pass	0.16	pass	0.17	pass	0.42	pass

*1): For this limit value, "General Population / Uncontrolled Exposure" of FCC § 1.1310 (e) (B) was used.

*2): This is the distance between the center of the probe and the edges of the EUT.

*Test result is less than 50 % of the MPE limit.

Magnetic field strength

Report No. 13558632H
Test place Ise EMC Lab. No.7 shielded room
Date December 23, 2020
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Ken Fujita
Mode Mode 4

Operating Frequency	0.1277 MHz
	1.63 A/m *1)

Measurement distance *2)	Front		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
5cm	0.5910	0.4702	pass
10cm	0.3320	0.2641	pass
15cm	0.2670	0.2124	pass
20cm	0.2410	0.1917	pass
30cm	0.2390	0.1901	pass
40cm	0.2280	0.1814	pass
Measurement distance *2)	Rear		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2780	0.2212	pass
20cm	0.2630	0.2092	pass
30cm	0.2380	0.1893	pass
40cm	0.2310	0.1838	pass
Measurement distance *2)	Left		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2440	0.1941	pass
20cm	0.2310	0.1838	pass
30cm	0.2290	0.1822	pass
40cm	0.2270	0.1806	pass
Measurement distance *2)	Right		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2530	0.2013	pass
20cm	0.2430	0.1933	pass
30cm	0.2410	0.1917	pass
40cm	0.2380	0.1893	pass
Measurement distance *2)	Top		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	1.0050	0.7995	pass
20cm	0.5610	0.4463	pass
30cm	0.2480	0.1973	pass
40cm	0.2240	0.1782	pass

*1): For this limit value, "General Population / Uncontrolled Exposure" of FCC § 1.1310 (e) (B) was used.

*2): This is the distance between the center of the probe and the edges of the EUT.

*3): This value was calculated by following formula.

$$\text{Magnetic field strength [A/m]} = \text{Magnetic density} / 4\pi \times 10^{-7}$$

*Test result is less than 50 % of the MPE limit.

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Electro-magnetic field strength

Report No. 13558632H
Test place Ise EMC Lab. No.7 shielded room
Date December 23, 2020
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Ken Fujita
Mode Mode 4

Operating Frequency	0.1277 MHz
Limit	614.00 V/m

*1)

*2)	Front		Rear		Right		Left		Top	
	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result
15cm	1.01	pass	0.51	pass	0.34	pass	0.38	pass	0.81	pass
20cm	0.58	pass	0.34	pass	0.30	pass	0.29	pass	0.52	pass
30cm	0.19	pass	0.19	pass	0.18	pass	0.18	pass	0.46	pass
40cm	0.17	pass	0.17	pass	0.16	pass	0.17	pass	0.44	pass

*1): For this limit value, "General Population / Uncontrolled Exposure" of FCC § 1.1310 (e) (B) was used.

*2): This is the distance between the center of the probe and the edges of the EUT.

*Test result is less than 50 % of the MPE limit.

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Magnetic field strength

Report No. 13558632H
Test place Ise EMC Lab. No.7 shielded room
Date December 23, 2020
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Ken Fujita
Mode Mode 5

Operating Frequency	0.1277 MHz
	1.63 A/m *1)

Measurement distance *2)	Front		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2480	0.1973	pass
20cm	0.2410	0.1917	pass
30cm	0.2390	0.1901	pass
40cm	0.2330	0.1854	pass
Measurement distance *2)	Rear		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2670	0.2124	pass
20cm	0.2480	0.1973	pass
30cm	0.2390	0.1901	pass
40cm	0.2290	0.1822	pass
Measurement distance *2)	Left		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2560	0.2037	pass
20cm	0.2410	0.1917	pass
30cm	0.2380	0.1893	pass
40cm	0.2290	0.1822	pass
Measurement distance *2)	Right		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2510	0.1997	pass
20cm	0.2440	0.1941	pass
30cm	0.2410	0.1917	pass
40cm	0.2310	0.1838	pass
Measurement distance *2)	Top		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	1.0110	0.8043	pass
20cm	0.5620	0.4471	pass
30cm	0.2730	0.2172	pass
40cm	0.2410	0.1917	pass

*1): For this limit value, "General Population / Uncontrolled Exposure" of FCC § 1.1310 (e) (B) was used.

*2): This is the distance between the center of the probe and the edges of the EUT.

*3): This value was calculated by following formula.

$$\text{Magnetic field strength [A/m]} = \text{Magnetic density} / 4\pi \times 10^{-7}$$

*Test result is less than 50 % of the MPE limit.

Electro-magnetic field strength

Report No. 13558632H
Test place Ise EMC Lab. No.7 shielded room
Date December 23, 2020
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Ken Fujita
Mode Mode 5

Operating Frequency	0.1277 MHz
Limit	614.00 V/m

*1)

*2)	Front		Rear		Right		Left		Top	
	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result
15cm	1.09	pass	0.44	pass	0.34	pass	0.41	pass	0.82	pass
20cm	0.58	pass	0.34	pass	0.31	pass	0.34	pass	0.51	pass
30cm	0.17	pass	0.17	pass	0.18	pass	0.18	pass	0.45	pass
40cm	0.17	pass	0.16	pass	0.17	pass	0.17	pass	0.44	pass

*1): For this limit value, "General Population / Uncontrolled Exposure" of FCC § 1.1310 (e) (B) was used.

*2): This is the distance between the center of the probe and the edges of the EUT.

*Test result is less than 50 % of the MPE limit.

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Magnetic field strength

Report No. 13558632H
Test place Ise EMC Lab. No.7 shielded room
Date December 23, 2020
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Ken Fujita
Mode Mode 6

Operating Frequency	0.1277 MHz
	1.63 A/m *1)

Measurement distance *2)	Front		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2510	0.1997	pass
20cm	0.2430	0.1933	pass
30cm	0.2890	0.2299	pass
40cm	0.2320	0.1846	pass
Measurement distance *2)	Rear		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2580	0.2053	pass
20cm	0.2410	0.1917	pass
30cm	0.2320	0.1846	pass
40cm	0.2330	0.1854	pass
Measurement distance *2)	Left		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2400	0.1909	pass
20cm	0.2370	0.1885	pass
30cm	0.2350	0.1870	pass
40cm	0.2310	0.1838	pass
Measurement distance *2)	Right		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2520	0.2005	pass
20cm	0.2440	0.1941	pass
30cm	0.2460	0.1957	pass
40cm	0.2400	0.1909	pass
Measurement distance *2)	Top		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	1.0110	0.8043	pass
20cm	0.6010	0.4781	pass
30cm	0.3030	0.2411	pass
40cm	0.2670	0.2124	pass

*1): For this limit value, "General Population / Uncontrolled Exposure" of FCC § 1.1310 (e) (B) was used.

*2): This is the distance between the center of the probe and the edges of the EUT.

*3): This value was calculated by following formula.

$$\text{Magnetic field strength [A/m]} = \text{Magnetic density} / 4\pi \times 10^{-7}$$

*Test result is less than 50 % of the MPE limit.

Electro-magnetic field strength

Report No. 13558632H
Test place Ise EMC Lab. No.7 shielded room
Date December 23, 2020
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Ken Fujita
Mode Mode 6

Operating Frequency	0.1277 MHz
Limit	614.00 V/m

*1)

*2)	Front		Rear		Right		Left		Top	
	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result
15cm	1.06	pass	0.43	pass	0.32	pass	0.41	pass	0.78	pass
20cm	0.58	pass	0.35	pass	0.28	pass	0.31	pass	0.51	pass
30cm	0.21	pass	0.18	pass	0.20	pass	0.18	pass	0.48	pass
40cm	0.18	pass	0.16	pass	0.16	pass	0.17	pass	0.47	pass

*1): For this limit value, "General Population / Uncontrolled Exposure" of FCC § 1.1310 (e) (B) was used.

*2): This is the distance between the center of the probe and the edges of the EUT.

*Test result is less than 50 % of the MPE limit.

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Magnetic field strength

Report No. 13558632H
Test place Ise EMC Lab. No.7 shielded room
Date December 23, 2020
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Ken Fujita
Mode Mode 7

Operating Frequency	0.1277 MHz
	1.63 A/m *1)

Measurement distance *2)	Front		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2480	0.1973	pass
20cm	0.2380	0.1893	pass
30cm	0.2330	0.1854	pass
40cm	0.2330	0.1854	pass
Measurement distance *2)	Rear		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2570	0.2045	pass
20cm	0.2380	0.1893	pass
30cm	0.2280	0.1814	pass
40cm	0.2270	0.1806	pass
Measurement distance *2)	Left		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2470	0.1965	pass
20cm	0.2390	0.1901	pass
30cm	0.2310	0.1838	pass
40cm	0.2370	0.1885	pass
Measurement distance *2)	Right		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2510	0.1997	pass
20cm	0.2430	0.1933	pass
30cm	0.2400	0.1909	pass
40cm	0.2280	0.1814	pass
Measurement distance *2)	Top		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	1.0120	0.8051	pass
20cm	0.5570	0.4431	pass
30cm	0.2660	0.2116	pass
40cm	0.2330	0.1854	pass

*1): For this limit value, "General Population / Uncontrolled Exposure" of FCC § 1.1310 (e) (B) was used.

*2): This is the distance between the center of the probe and the edges of the EUT.

*3): This value was calculated by following formula.

$$\text{Magnetic field strength [A/m]} = \text{Magnetic density} / 4\pi \times 10^{-7}$$

*Test result is less than 50 % of the MPE limit.

Electro-magnetic field strength

Report No. 13558632H
Test place Ise EMC Lab. No.7 shielded room
Date December 23, 2020
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Ken Fujita
Mode Mode 7

Operating Frequency	0.1277 MHz
Limit	614.00 V/m

*1)

*2)	Front		Rear		Right		Left		Top	
	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result
15cm	1.08	pass	0.48	pass	0.32	pass	0.37	pass	0.68	pass
20cm	0.55	pass	0.29	pass	0.22	pass	0.28	pass	0.45	pass
30cm	0.20	pass	0.19	pass	0.18	pass	0.18	pass	0.43	pass
40cm	0.17	pass	0.18	pass	0.17	pass	0.18	pass	0.42	pass

*1): For this limit value, "General Population / Uncontrolled Exposure" of FCC § 1.1310 (e) (B) was used.

*2): This is the distance between the center of the probe and the edges of the EUT.

*Test result is less than 50 % of the MPE limit.

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Magnetic field strength

Report No. 13558632H
Test place Ise EMC Lab. No.7 shielded room
Date December 23, 2020
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Ken Fujita
Mode Mode 8

Operating Frequency	0.1277 MHz
	1.63 A/m *1)

Measurement distance *2)	Front		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2510	0.1997	pass
20cm	0.2410	0.1917	pass
30cm	0.2370	0.1885	pass
40cm	0.2380	0.1893	pass
Measurement distance *2)	Rear		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2780	0.2212	pass
20cm	0.2510	0.1997	pass
30cm	0.2320	0.1846	pass
40cm	0.2300	0.1830	pass
Measurement distance *2)	Left		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2410	0.1917	pass
20cm	0.2330	0.1854	pass
30cm	0.2270	0.1806	pass
40cm	0.2250	0.1790	pass
Measurement distance *2)	Right		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	0.2510	0.1997	pass
20cm	0.2430	0.1933	pass
30cm	0.2330	0.1854	pass
40cm	0.2270	0.1806	pass
Measurement distance *2)	Top		
	Actual magnetic density(μT)	Magnetic field strength(A/m) *3)	Result
15cm	1.0080	0.8019	pass
20cm	0.5560	0.4423	pass
30cm	0.2760	0.2196	pass
40cm	0.2410	0.1917	pass

*1): For this limit value, "General Population / Uncontrolled Exposure" of FCC § 1.1310 (e) (B) was used.

*2): This is the distance between the center of the probe and the edges of the EUT.

*3): This value was calculated by following formula.

$$\text{Magnetic field strength [A/m]} = \text{Magnetic density} / 4\pi \cdot 10^{-7}$$

*Test result is less than 50 % of the MPE limit.

Electro-magnetic field strength

Report No. 13558632H
Test place Ise EMC Lab. No.7 shielded room
Date December 23, 2020
Temperature / Humidity 22 deg. C / 32 % RH
Engineer Ken Fujita
Mode Mode 8

Operating Frequency	0.1277 MHz
Limit	614.00 V/m

*1)

*2)	Front		Rear		Right		Left		Top	
	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result	Reading (V/m)	Result
15cm	1.08	pass	0.50	pass	0.32	pass	0.41	pass	0.81	pass
20cm	0.67	pass	0.31	pass	0.30	pass	0.30	pass	0.51	pass
30cm	0.18	pass	0.18	pass	0.18	pass	0.18	pass	0.46	pass
40cm	0.17	pass	0.17	pass	0.17	pass	0.18	pass	0.45	pass

*1): For this limit value, "General Population / Uncontrolled Exposure" of FCC § 1.1310 (e) (B) was used.

*2): This is the distance between the center of the probe and the edges of the EUT.

*Test result is less than 50 % of the MPE limit.

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APPENDIX 2: Test instruments

Test equipment

Test Item	Local ID	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
EMF	MOS-34	141572	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	3401	01/07/2020	12
EMF	MJM-04	142178	Measure	PROMART	SEN1635	-	-	-
EMF	SEF-01	145494	Broadband Field Meter	NARDA	NBM-520	C-0520	09/17/2018	36
EMF	SEF-05	145498	Probe EF0391(E-Field)	NARDA	EF0391	A-1299	09/17/2018	36
EMF	SMM-01	146284	Exposure Level Tester	NARDA	ELT-400	M-0163	09/17/2020	12
EMF	SMS-01	146315	Magnetic Field Probe 100cm ²	NARDA	ELT-400	M-0180	09/17/2020	12

*Hyphens for Last Calibration Date and Cal Int (month) are instruments that Calibration is not required (e.g. software), or instruments checked in advance before use.

The expiration date of the calibration is the end of the expired month.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

Test item:

EMF: Electromagnetic field

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