







# RADIO TEST REPORT

## Test Report No.: 14670607H

Customer	NIHON KOHDEN CORPORATION
Description of EUT	Transmitter
Model Number of EUT	ZM-540PA
FCC ID	B6BZM-540PAB
Test Regulation	FCC Part 95 Subpart H
Test Result	Complied (Refer to SECTION 3)
Issue Date	March 22, 2023
Remarks	-

<b>Representative Test Engineer</b>	<b>Approved By</b>
	
Nachi Konegawa Engineer	Takayuki Shimada Leader
 	
CERTIFICATE 5107.02	
<input type="checkbox"/> The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan, Inc.	
<input checked="" type="checkbox"/> There is no testing item of "Non-accreditation".	

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- This test report covers Radio technical requirements.  
It does not cover administrative issues such as Manual or non-Radio test related Requirements. (if applicable)
- The all test items in this test report are conducted by UL Japan, Inc. Ise EMC Lab.
- The opinions and the interpretations to the result of the description in this report are outside scopes where UL Japan, Inc. has been accredited.
- The information provided from the customer for this report is identified in Section 1.
- For test report(s) referred in this report, the latest version (including any revisions) is always referred.

## **REVISION HISTORY**

**Original Test Report No.: 14670607H**

Revision	Test Report No.	Date	Page Revised Contents
- (Original)	14670607H	March 22, 2023	-

**Reference: Abbreviations (Including words undescribed in this report)**

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

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## **SECTION 1: Customer Information**

Company Name	NIHON KOHDEN CORPORATION
Address	1-1-6 Kusunokidai, Tokorozawa-shi, Saitama 359-0037 Japan
Telephone Number	+81-3-5996-8354
Contact Person	Toshifumi Takeuchi

The information provided from the customer is as follows;

- Customer, Description 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 and Test 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**

Description	Transmitter
Model Number	ZM-540PA
Serial Number	Refer to SECTION 4.2
Condition	Production prototype (Not for Sale: This sample is equivalent to mass-produced items.)
Modification	No Modification by the test lab
Receipt Date	February 22, 2023
Test Date	February 28 to March 3, 2023

### **2.2 Product Description**

#### **General Specification**

Rating	DC 3.6 V
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#### **Radio Specification**

Equipment Type	Transmitter
Frequency of Operation	608.025 MHz to 613.975 MHz
Type of Modulation	FSK
Antenna Gain	0 dBi or less

**SECTION 3: Test Specification, Procedures & Results**

**3.1 Test Specification**

Test Specification	FCC Part 95 Subpart H
Title	FCC 47 CFR Part 95 Personal Radio Services Subpart H Wireless Medical Telemetry Service

**3.2 Procedures and results**

Item	Test Specification & Procedure	Worst margin	Results	Remarks
WMTS frequency accuracy *2)	FCC 2.1055 FCC 95.2365	-	Complied a)	Conducted
Bandwidth *2)	FCC 2.1049	-	Complied b)	Conducted
Conducted Spurious Emission *2)	FCC 2.1051	-	Complied c)	Conducted
WMTS field strength limits *1)	FCC 2.1046 FCC 95.2369	15.1 dB 608.025 MHz Horizontal, QP	Complied d)	Radiated
WMTS unwanted emissions limits *1)	FCC 2.1053 FCC 95.2379	9.2 dB 5472.225 MHz Vertical, AV	Complied d)	Radiated

Note: UL Japan, Inc.'s EMI Work Procedures: Work Instructions-ULID-003591 and Work Instructions-ULID-003593.

\*1) These tests were also referred to ANSI/TIA-603-E-2016 "Land Mobile FM or PM Communications Equipment and Performance Standards".

\*2) These tests were also referred to ANSI/C63.26:2015 "American National Standard for Compliance Testing of Transmitters Used in the Licensed Radio Services".

- a) Refer to APPENDIX 1 (data of Frequency Stability)
- b) Refer to APPENDIX 1 (data of -26 dB Bandwidth and 99 % Occupied Bandwidth)
- c) Refer to APPENDIX 1 (data of Conducted Spurious Emission)
- d) Refer to APPENDIX 1 (data of Field Strength)

### 3.3 Addition to Standard

No addition, exclusion nor deviation has been made from the standard.

### 3.4 Uncertainty

Measurement uncertainty is not taken into account when stating conformity with a specified requirement.

Note: When margins obtained from test results are less than the measurement uncertainty, the test results may exceed the limit.

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

#### Radiated emission

Measurement distance	Frequency range		Uncertainty (+/-)
3 m	9 kHz to 30 MHz		3.2 dB
10 m			3.0 dB
3 m	30 MHz to 200 MHz	Horizontal	4.8 dB
		Vertical	5.0 dB
	200 MHz to 1000 MHz	Horizontal	5.1 dB
		Vertical	6.2 dB
10 m	30 MHz to 200 MHz	Horizontal	4.8 dB
		Vertical	4.8 dB
	200 MHz to 1000 MHz	Horizontal	5.0 dB
		Vertical	5.0 dB
3 m	1 GHz to 6 GHz		4.9 dB
	6 GHz to 18 GHz		5.2 dB
1 m	10 GHz to 26.5 GHz		5.4 dB
	26.5 GHz to 40 GHz		5.4 dB
10 m	1 GHz to 18 GHz		5.4 dB

#### Antenna Terminal test

Test Item	Uncertainty (+/-)
-26 dB Bandwidth and 99 % Occupied Bandwidth	0.96 %
Average Output Power	1.5 dB
Frequency Stability	0.01541 ppm
Conducted Spurious Emission	2.7 dB

### 3.5 Test Location

UL Japan, Inc. Ise EMC Lab.

\*A2LA Certificate Number: 5107.02 / FCC Test Firm Registration Number: 884919

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

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 Japan

Telephone: +81-596-24-8999

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.10 shielded room	3.8 x 2.8 x 2.8	3.8 x 2.8	-	-
No.11 measurement room	4.0 x 3.4 x 2.5	N/A	-	-
No.12 measurement room	2.6 x 3.4 x 2.5	N/A	-	-
Large Chamber	16.9 x 22.1 x 10.17	16.9 x 22.1	-	10 m
Small Chamber	5.3 x 6.69 x 3.59	5.3 x 6.69	-	-

### 3.6 Test data, Test instruments, and Test set up

Refer to APPENDIX.



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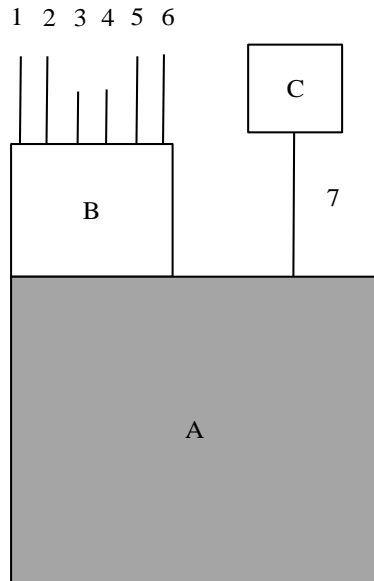
## **SECTION 4: Operation of EUT during testing**

### **4.1 Operating Mode(s)**

<b>Test item</b>	<b>Operating mode</b>	<b>Tested frequency</b>
All items	Transmitting (Modulated)	608.025 MHz, 613.975 MHz
<p>*Power of the EUT was set by the software as follows; Power Setting: 1 mW Software: Ver.01-24</p> <p>*This setting of software is the worst case. Any conditions under the normal use do not exceed the condition of setting. In addition, end users cannot change the settings of the output power of the product.</p>		

4.2 Configuration and peripherals

<Radiated Emission test>



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

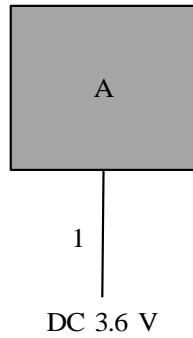
**Description of EUT and Support equipment**

No.	Item	Model number	Serial number	Manufacturer	Remarks
A	Transmitter	ZM-540PA	01978	NIHON KOHDEN CORPORATION	EUT
B	ELECTRODE LEAD	BR-936PA	501021	NIHON KOHDEN CORPOATION	-
C	Finger probe, 1.6m lead	TL-201T	227920	NIHON KOHDEN CORPOATION	-

**List of cables used**

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	Signal Cable	0.85	Shielded	Shielded	-
2	Signal Cable	0.85	Shielded	Shielded	-
3	Signal Cable	0.65	Shielded	Shielded	-
4	Signal Cable	0.65	Shielded	Shielded	-
5	Signal Cable	0.85	Shielded	Shielded	-
6	Signal Cable	0.85	Shielded	Shielded	-
7	Signal Cable	1.60	Shielded	Shielded	-

<Antenna Terminal Conducted test>



\* 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	Transmitter	ZM-540PA	01979	NIHON KOHDEN CORPORATION	EUT

**List of cables used**

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	DC Cable	1.0	Unshielded	Unshielded	-

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## **SECTION 5: Average Output Power**

### **Test Procedure**

Average Output Power was measured with a power meter.

**Test data** : **APPENDIX**  
**Test result** : **Only reported**

## **SECTION 6: Frequency Stability (Temperature/Voltage Variation)**

### **Test Procedure**

The Frequency Stability was measured with a spectrum analyzer and attenuator connected to the antenna port.  
The Frequency Drift was measured with the 10 deg. C. steps from -30 deg. C. to 50 deg. C., and it is presented as the ppm unit.  
The Frequency Drift was measured with the normal temperature (20 deg. C.) and Voltage tolerance, and it is presented as the ppm unit.

Temperature	-30 deg. C to +50 deg. C (10 deg. C. step)
Voltage	Vnom: DC 3.6 V, Vmin: DC 3.2 V (Battery Output)

Frequency Stability test was performed under the above condition.

**Test data** : **APPENDIX**  
**Test result** : **Pass**

## **SECTION 7: -26 dB Bandwidth and 99 % Occupied Bandwidth**

### **Test Procedure**

Bandwidth was measured with below setting connected to the antenna port.

RBW	VBW	Span	Sweep time	Detector	Trace	Instrument Used
1 % to 5 % of OBW	Three times of RBW	Enough width to display emission skirts	Auto	Peak	Max Hold	Spectrum Analyzer

**Test data** : **APPENDIX**  
**Test result** : **Only reported**

## **SECTION 8: Conducted Spurious Emission**

### **Test procedure**

Conducted Spurious Emission was measured with below setting connected to the antenna port.

Span	RBW	VBW	Sweep time	Detector	Trace	Instrument Used
9 kHz to 150 kHz	200 Hz	620 Hz	Auto	Peak	Max Hold	Spectrum Analyzer
150 kHz to 30 MHz	9.1 kHz	27 kHz				

**Test data** : APPENDIX  
**Test result** : Only reported

## **SECTION 9: Field strength**

### **Test Procedure**

[For below 30 MHz]

The noise level was checked by moving a search-coil (Loop Antenna) close to the EUT.

[For above 30 MHz]

EUT was placed on a platform of nominal size, 1.0 m by 1.5 m, raised 0.8 m above the conducting ground plane. The Field strength has been measured in Semi Anechoic Chamber with a ground plane.

The measuring antenna height was varied between 1 to 4 m and the turn table was rotated a full revolution in order to obtain the maximum value of the electric field strength.

The measurements were performed for both vertical and horizontal antenna polarization.

The test was made with the detector (RBW/VBW) in the following table.

Frequency	Below 30 MHz	30 MHz to 200 MHz	200 MHz to 1 GHz	Above 1 GHz
Antenna Type	Loop	Biconical	Logperiodic	Horn

Frequency	9 kHz to 150 kHz	150 kHz to 30 MHz	30 MHz to 1 GHz	Above 1 GHz
Instrument used	Test Receiver	Test Receiver	Test Receiver	Spectrum Analyzer
Detector	Quasi Peak	Quasi Peak	Quasi Peak	Peak
IF Bandwidth	BW: 200 Hz	BW: 9 kHz	BW: 120 kHz	RBW: 1 MHz VBW: 10 Hz
Test Distance	3 m			

[For Band edge]

To determine the level of band-edge spurious, we use the following procedure:

Set the resolution bandwidth to 1 kHz in the peak detector mode.

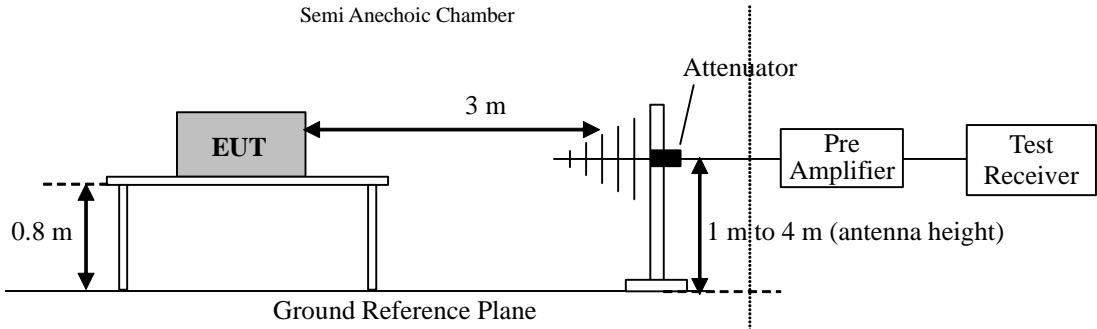
Because we don't want to include in-band emission at Band edge measurement if center frequencies are following cases, Band edge of "608.025 MHz" is "608 MHz" or Band edge of "613.975 MHz" is "614 MHz".

We used RBW = 1 kHz (greater than 1 % bandwidth) to prevent to detect in-band emission. Refer to KDB 971168 D01 (971168 D01 Power Meas License Digital Systems v03r01).

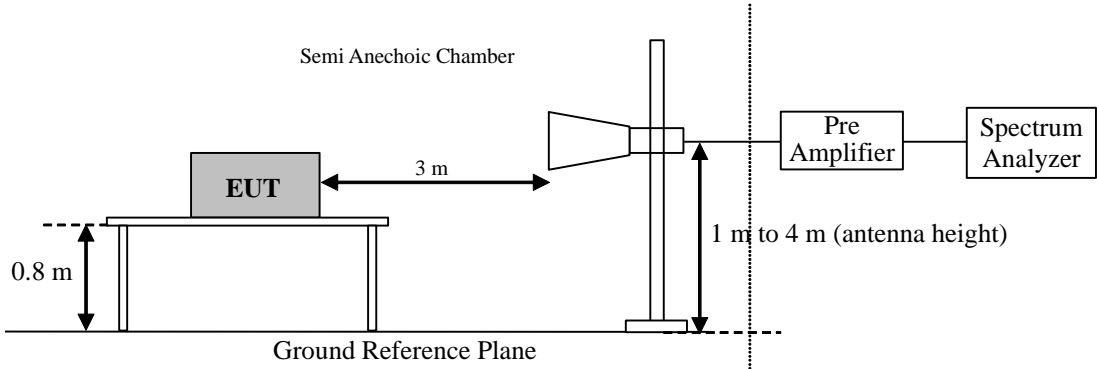
Measure the maximum level of the in-band channel closest to the band edge and the maximum level of the out-of-band emissions close to the same band edge. Determine the ratio of the in-band signal to the out-of-band emissions. Then, measure the level of the in-band channel in peak mode with 1 MHz bandwidth. Using the ratio obtained, we calculate the equivalent level of the out-of-band emissions to determine compliance with the limits.

Figure 2: Test Setup

[30 MHz to 1 GHz]



[1 GHz to 10 GHz]



The carrier level and noise levels were confirmed at each position of X, Y and Z axes of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

The test results and limit are rounded off to one decimal place, so some differences might be observed.

Measurement range : 30 MHz to 7 GHz  
Test data : APPENDIX  
Test result : Pass

**APPENDIX 1: Test data**

**Average Output Power**  
**(Reference data for RF Exposure)**

Test place                    Ise EMC Lab.  
Measurement Room        No.8  
Date                         February 28, 2023  
Temperature / Humidity    22 deg. C / 37 % RH  
Engineer                    Nachi Konegawa  
Mode                         Tx

Tested Frequency [MHz]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result (Timed average)		Duty factor [dB]	Result (Burst power average)	
				[dBm]	[mW]		[dBm]	[mW]
608.025	-10.04	0.25	9.76	-0.03	0.99	0.00	-0.03	0.99
613.975	-9.97	0.25	9.76	0.04	1.01	0.00	0.04	1.01

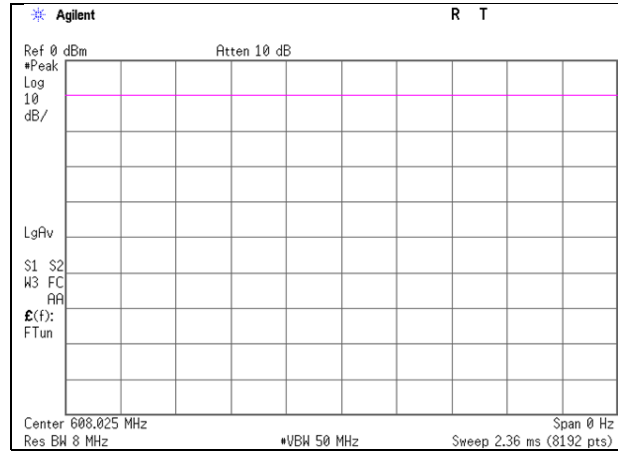
Sample Calculation:

Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Result (Burst power average) = Time average + Duty factor

### Burst rate confirmation

Test place                    Ise EMC Lab.  
Measurement Room        No.8  
Date                         February 28, 2023  
Temperature / Humidity    22 deg. C / 37 % RH  
Engineer                    Nachi Konegawa  
Mode                         Tx





**Frequency Stability (Temperature / Voltage Variation)**

Test place Ise EMC Lab.  
 Measurement Room No.8 No.8  
 Date March 2, 2023 March 3, 2023  
 Temperature / Humidity 24 deg. C / 43 % RH 24 deg. C / 30 % RH  
 Engineer Nachi Konegawa Nachi Konegawa  
 Mode Tx 608.025 MHz

Test condition	Temp. [deg. C]	Voltage [V]	Tested timing	Measured frequency [MHz]	Frequency error [MHz]	Result [ppm]	Limit [+/- ppm]	Margin [ppm]
DC 3.2V (Vmin)	20	DC 3.2V (Vmin)	Power on	608.025040	0.000040	0.065841	2.5	2.434159
			+ 2 min.	608.025030	0.000030	0.049972	2.5	2.450028
			+ 5 min.	608.025029	0.000029	0.048041	2.5	2.451959
			+ 10 min.	608.025033	0.000033	0.054902	2.5	2.445098
			Power on	608.025069	0.000069	0.114156	2.5	2.385844
			+ 2 min.	608.025021	0.000021	0.034773	2.5	2.465227
			+ 5 min.	608.025037	0.000037	0.060123	2.5	2.439877
			+ 10 min.	608.025032	0.000032	0.051953	2.5	2.448047
DC 3.6V (Vnom)	50	DC 3.6V (Vnom)	Power on	608.025173	0.000173	0.284426	-	-
			+ 2 min.	608.025199	0.000199	0.326768	-	-
			+ 5 min.	608.025290	0.000290	0.476401	-	-
			+ 10 min.	608.025317	0.000317	0.521521	-	-
	40		Power on	608.025037	0.000037	0.060483	2.5	2.439517
			+ 2 min.	608.025022	0.000022	0.035566	2.5	2.464434
			+ 5 min.	608.025027	0.000027	0.043967	2.5	2.456033
			+ 10 min.	608.025030	0.000030	0.049944	2.5	2.450056
	30		Power on	608.024989	-0.000011	-0.017873	2.5	2.482127
			+ 2 min.	608.024977	-0.000023	-0.038041	2.5	2.461959
			+ 5 min.	608.024997	-0.000003	-0.004332	2.5	2.495668
			+ 10 min.	608.025010	0.000010	0.016360	2.5	2.483640
20	Power on	608.025069	0.000069	0.114156	2.5	2.385844		
	+ 2 min.	608.025021	0.000021	0.034773	2.5	2.465227		
	+ 5 min.	608.025037	0.000037	0.060123	2.5	2.439877		
	+ 10 min.	608.025032	0.000032	0.051953	2.5	2.448047		
10	Power on	608.025024	0.000024	0.038964	2.5	2.461036		
	+ 2 min.	608.024990	-0.000010	-0.016292	2.5	2.483708		
	+ 5 min.	608.024941	-0.000059	-0.097450	2.5	2.402550		
	+ 10 min.	608.024910	-0.000090	-0.148132	2.5	2.351868		
0	Power on	608.024052	-0.000948	-1.559738	2.5	<b>0.940262</b>		
	+ 2 min.	608.024083	-0.000917	-1.507912	2.5	0.992088		
	+ 5 min.	608.024087	-0.000913	-1.501979	2.5	0.998021		
	+ 10 min.	608.024089	-0.000911	-1.498866	2.5	1.001134		
-10	Power on	608.022327	-0.002673	-4.396201	-	-		
	+ 2 min.	608.022449	-0.002551	-4.195551	-	-		
	+ 5 min.	608.022516	-0.002484	-4.085358	-	-		
	+ 10 min.	608.022352	-0.002648	-4.355084	-	-		
-20	Power on	608.019716	-0.005284	-8.690432	-	-		
	+ 2 min.	608.020348	-0.004652	-7.651001	-	-		
	+ 5 min.	608.019795	-0.005205	-8.560503	-	-		
	+ 10 min.	608.019493	-0.005507	-9.057193	-	-		
-30	Power on	608.015716	-0.009284	-15.269109	-	-		
	+ 2 min.	608.016802	-0.008198	-13.482998	-	-		
	+ 5 min.	608.016158	-0.008842	-14.542165	-	-		
	+ 10 min.	608.015216	-0.009784	-16.091444	-	-		

\*The test was begun from 50 deg. C and the temperature was lowered each 10 deg. C.

\*The test on 50 deg. C, -10 deg. C, -20 deg. C and -30 deg. C were reference data, since the specification of operating temperature of EUT was 5 deg. C to 40 deg. C (It used the manufacturer's specified conditions (refer to FCC 95.2365)).

\*Also the test on 0 deg. C, the manufacturer's specified condition was applied instead of lowest operating temperature value of 5 deg. C.

**Frequency Stability (Temperature / Voltage Variation)**

Test place Ise EMC Lab.  
 Measurement Room No.8  
 Date March 3, 2023  
 Temperature / Humidity 24 deg. C / 30 % RH  
 Engineer Nachi Konegawa  
 Mode Tx 613.975 MHz

Test condition		Tested timing	Measured frequency [MHz]	Frequency error [MHz]	Result [ppm]	Limit [+/- ppm]	Margin [ppm]
Temp. [deg. C]	Voltage [V]						
20	DC 3.2V (Vmin)	Power on	613.974975	-0.000025	-0.039992	2.5	2.460008
		+ 2 min.	613.974984	-0.000016	-0.025776	2.5	2.474224
		+ 5 min.	613.974984	-0.000016	-0.025693	2.5	2.474307
		+ 10 min.	613.974988	-0.000012	-0.020014	2.5	2.479986
	DC 3.6V (Vnom)	Power on	613.974945	-0.000055	-0.090241	2.5	2.409759
		+ 2 min.	613.974966	-0.000034	-0.055089	2.5	2.444911
		+ 5 min.	613.974969	-0.000031	-0.049867	2.5	2.450133
		+ 10 min.	613.974968	-0.000032	-0.051854	2.5	2.448146
50		Power on	613.975209	0.000209	0.340012	-	-
		+ 2 min.	613.975227	0.000227	0.369500	-	-
		+ 5 min.	613.975278	0.000278	0.453271	-	-
		+ 10 min.	613.975318	0.000318	0.517355	-	-
40		Power on	613.975006	0.000006	0.010118	2.5	2.489882
		+ 2 min.	613.975007	0.000007	0.011329	2.5	2.488671
		+ 5 min.	613.975007	0.000007	0.010829	2.5	2.489171
		+ 10 min.	613.975004	0.000004	0.006987	2.5	2.493013
30		Power on	613.974927	-0.000073	-0.119047	2.5	2.380953
		+ 2 min.	613.974969	-0.000031	-0.050802	2.5	2.449198
		+ 5 min.	613.974969	-0.000031	-0.050748	2.5	2.449252
		+ 10 min.	613.974971	-0.000029	-0.046572	2.5	2.453428
20		Power on	613.974945	-0.000055	-0.090241	2.5	2.409759
		+ 2 min.	613.974966	-0.000034	-0.055089	2.5	2.444911
		+ 5 min.	613.974969	-0.000031	-0.049867	2.5	2.450133
		+ 10 min.	613.974968	-0.000032	-0.051854	2.5	2.448146
10	DC 3.6V (Vnom)	Power on	613.974731	-0.000269	-0.437700	2.5	2.062300
		+ 2 min.	613.974782	-0.000218	-0.354808	2.5	2.145192
		+ 5 min.	613.974823	-0.000177	-0.288574	2.5	2.211426
		+ 10 min.	613.974806	-0.000194	-0.316612	2.5	2.183388
0		Power on	613.974106	-0.000894	-1.455286	2.5	1.044714
		+ 2 min.	613.974153	-0.000847	-1.380025	2.5	1.119975
		+ 5 min.	613.974110	-0.000890	-1.449106	2.5	1.050894
		+ 10 min.	613.974095	-0.000905	-1.474104	2.5	<b>1.025896</b>
-10		Power on	613.972649	-0.002351	-3.829146	-	-
		+ 2 min.	613.972769	-0.002231	-3.633698	-	-
		+ 5 min.	613.972666	-0.002334	-3.801458	-	-
		+ 10 min.	613.972484	-0.002516	-4.097887	-	-
-20		Power on	613.969879	-0.005121	-8.340730	-	-
		+ 2 min.	613.970227	-0.004773	-7.773932	-	-
		+ 5 min.	613.969898	-0.005102	-8.309785	-	-
		+ 10 min.	613.969622	-0.005378	-8.759314	-	-
-30		Power on	613.966118	-0.008882	-14.466387	-	-
		+ 2 min.	613.966641	-0.008359	-13.614561	-	-
		+ 5 min.	613.965846	-0.009154	-14.909402	-	-
		+ 10 min.	613.965358	-0.009642	-15.704222	-	-

\*The test was begun from 50 deg. C and the temperature was lowered each 10 deg. C.

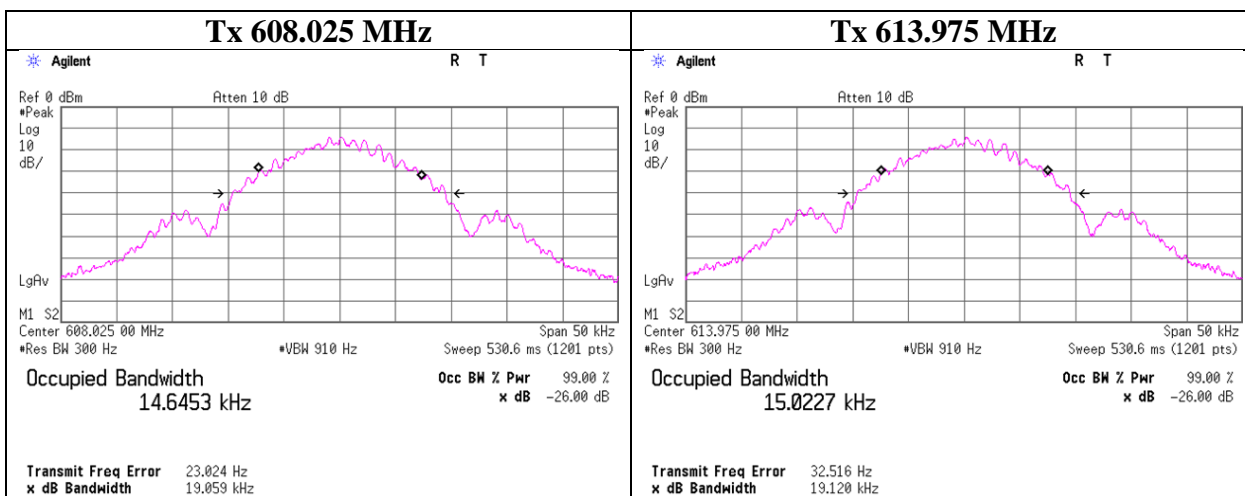
\*The test on 50 deg. C, -10 deg. C, -20 deg. C and -30 deg. C were reference data, since the specification of operating temperature of EUT was 0 deg.C to 40 deg. C (It used the manufacturer's specified conditions (refer to FCC 95.2365).

\*Also the test on 0 deg. C, the manufacturer's specified condition was applied instead of lowest operating temperature value of 5 deg. C.

**-26 dB Bandwidth and 99 % Occupied Bandwidth**

Test place Ise EMC Lab.  
 Measurement Room No.8  
 Date February 28, 2023  
 Temperature / Humidity 22 deg. C / 37 % RH  
 Engineer Nachi Konegawa  
 Mode Tx

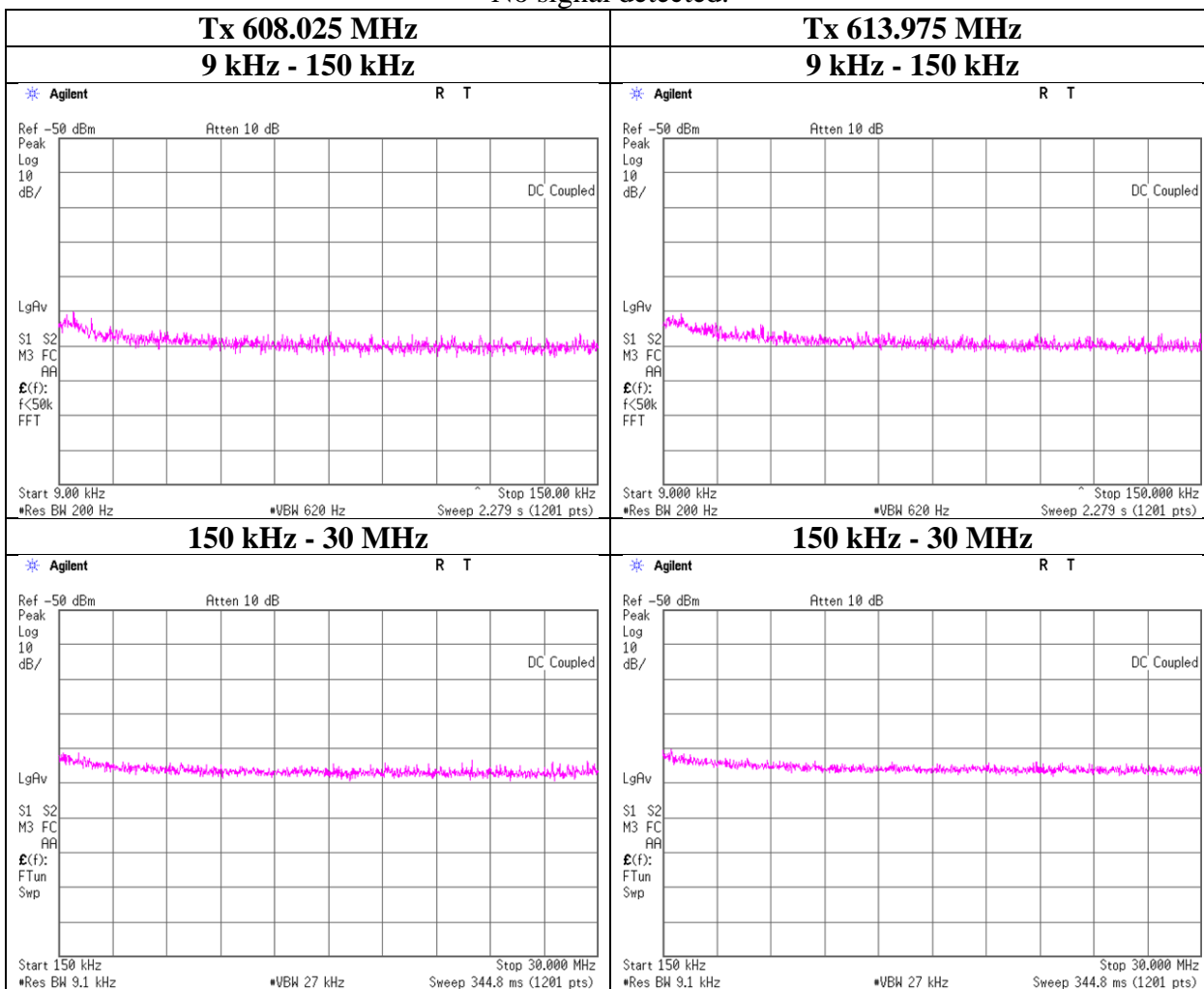
Frequency [MHz]	-26dB Bandwidth [kHz]	99% Occupied Bandwidth [kHz]
608.025	19.0590	14.6453
613.975	19.1200	15.0227



### Conducted Spurious Emission

Test place Ise EMC Lab.  
 Measurement Room No.8  
 Date February 28, 2023  
 Temperature / Humidity 22 deg. C / 37 % RH  
 Engineer Nachi Konegawa  
 Mode Tx

No signal detected.



**Field Strength(Electric Field Strength of Fundamental Emission,  
Spurious Emission and Band Edge Compliance)**

Test place	Ise EMC Lab.	No.2
Semi Anechoic Chamber	No.2	No.2
Date	March 1, 2023	March 3, 2023
Temperature / Humidity	22 deg. C / 48 % RH	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki (Below 1 GHz)	Takumi Nishida (Above 1 GHz)
Mode	Tx 608.025 MHz	

Polarity	Frequency	Reading (QP / PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP / PK)	Result (AV)	Limit (QP / PK)	Limit (AV)	Margin (QP / PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	122.817	33.7	-	13.2	7.6	28.3	-	26.1	-	46.0	-	19.9	-	
Hori.	153.593	34.8	-	15.1	7.8	28.2	-	29.5	-	46.0	-	16.6	-	
Hori.	184.362	30.4	-	16.3	8.0	28.1	-	26.6	-	46.0	-	19.4	-	
Hori.	327.998	35.6	-	15.0	8.9	27.9	-	31.6	-	46.0	-	14.4	-	
Hori.	496.002	30.1	-	18.0	9.8	29.1	-	28.8	-	46.0	-	17.2	-	
Hori.	608.000	31.6	-	19.5	10.2	29.3	-	32.0	-	46.0	-	14.0	-	Refer to Maker Delta Method
Hori.	608.025	90.5	-	19.5	10.2	29.3	-	90.9	-	106.0	-	15.1	-	Carrier
Hori.	1216.050	---	47.0	25.6	2.3	35.8	-	39.1	-	53.9	-	14.9	-	VBW 10Hz
Hori.	1824.075	---	36.3	25.3	2.8	35.3	-	29.1	-	53.9	-	24.8	-	VBW 10Hz
Hori.	2432.100	---	41.1	27.5	3.2	34.9	-	36.9	-	53.9	-	17.0	-	VBW 10Hz
Hori.	3040.125	---	40.6	28.5	3.7	34.6	-	38.1	-	53.9	-	15.8	-	VBW 10Hz
Hori.	3648.150	---	37.0	29.2	4.0	34.2	-	35.9	-	53.9	-	18.0	-	VBW 10Hz
Hori.	4256.175	---	33.1	30.4	5.3	34.0	-	34.8	-	53.9	-	19.1	-	Floor noise
Hori.	4864.200	---	36.8	31.7	5.5	34.2	-	39.9	-	53.9	-	14.1	-	VBW 10Hz
Hori.	5472.225	---	40.9	31.9	5.7	33.9	-	44.6	-	53.9	-	9.3	-	VBW 10Hz
Hori.	6080.250	---	37.7	32.7	5.9	34.0	-	42.2	-	53.9	-	11.7	-	VBW 10Hz
Vert.	122.817	29.9	-	13.2	7.6	28.3	-	22.3	-	46.0	-	23.7	-	
Vert.	153.593	25.9	-	15.1	7.8	28.2	-	20.6	-	46.0	-	25.5	-	
Vert.	184.362	22.3	-	16.3	8.0	28.1	-	18.5	-	46.0	-	27.5	-	
Vert.	327.998	26.8	-	15.0	8.9	27.9	-	22.8	-	46.0	-	23.2	-	
Vert.	496.002	30.8	-	18.0	9.8	29.1	-	29.5	-	46.0	-	16.5	-	
Vert.	608.000	29.6	-	19.5	10.2	29.3	-	30.0	-	46.0	-	16.0	-	Refer to Maker Delta Method
Vert.	608.025	88.8	-	19.5	10.2	29.3	-	89.2	-	106.0	-	16.8	-	Carrier
Vert.	1216.050	---	44.1	25.6	2.3	35.8	-	36.2	-	53.9	-	17.8	-	VBW 10Hz
Vert.	1824.075	---	37.0	25.3	2.8	35.3	-	29.8	-	53.9	-	24.1	-	VBW 10Hz
Vert.	2432.100	---	39.7	27.5	3.2	34.9	-	35.5	-	53.9	-	18.4	-	VBW 10Hz
Vert.	3040.125	---	43.0	28.5	3.7	34.6	-	40.6	-	53.9	-	13.4	-	VBW 10Hz
Vert.	3648.150	---	37.6	29.2	4.0	34.2	-	36.5	-	53.9	-	17.4	-	VBW 10Hz
Vert.	4256.175	---	33.1	30.4	5.3	34.0	-	34.9	-	53.9	-	19.0	-	Floor noise
Vert.	4864.200	---	35.7	31.7	5.5	34.2	-	38.7	-	53.9	-	15.2	-	VBW 10Hz
Vert.	5472.225	---	41.0	31.9	5.7	33.9	-	44.7	-	53.9	-	9.2	-	VBW 10Hz
Vert.	6080.250	---	39.9	32.7	5.9	34.0	-	44.5	-	53.9	-	9.4	-	VBW 10Hz

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)  
 Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor  
 \*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).  
 \*QP detector was used up to 960MHz.

**Marker Delta Method(Test distance 3 m)**

		Polarity	AV			
			Hor.		Ver.	
			[dBuV]	[dBuV/m]	[dBuV]	[dBuV/m]
Step1	Fundamental(608.025 MHz)	QP	90.50	90.90	88.80	89.20
Step2	Fundamental(608.025 MHz)	1 kHz / 3 kHz	89.44	89.84	87.64	88.04
	Band-edge(608 MHz)	1 kHz / 3 kHz	31.60	32.00	29.61	30.01
	Amplitude delta	-	57.84	57.84	58.03	58.03
Step3	Field strength of band-edge	-	-	33.06	-	31.17
	Limit	-	-	46.0	-	46.0
	Margin	-	-	12.9	-	14.8

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter) - Gain(Amplifier)  
 \*1 Amplitude delta = Fundamental(RBW: kHz,VBW: kHz) - Band-edge(RBW: kHz,VBW: kHz)  
 \*2 Field strength of band-edge = Fundamental(AV) - Amplitude delta  
 \*As we stated at section ("Bandedge" section), we used RBW = 1 kHz (greater than 1 % bandwidth) to prevent to detect in-band emission. Refer to KDB 971168 D01 (KDB 971168 D01 Power Meas Licence Digital System D03r01).

**Field Strength(Electric Field Strength of Fundamental Emission,  
Spurious Emission and Band Edge Compliance)**

Test place	Ise EMC Lab.	No.2
Semi Anechoic Chamber	No.2	No.2
Date	March 1, 2023	March 3, 2023
Temperature / Humidity	22 deg. C / 48 % RH	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki (Below 1 GHz)	Takumi Nishida (Above 1 GHz)
Mode	Tx 613.975 MHz	

Polarity	Frequency	Reading (QP / PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP / PK)	Result (AV)	Limit (QP / PK)	Limit (AV)	Margin (QP / PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	122.914	33.6	-	13.2	7.6	28.3	-	26.0	-	46.0	-	20.0	-	
Hori.	153.592	34.5	-	15.1	7.8	28.2	-	29.2	-	46.0	-	16.9	-	
Hori.	212.006	26.3	-	11.7	8.2	27.9	-	18.3	-	46.0	-	27.8	-	
Hori.	288.002	25.8	-	14.0	8.6	27.8	-	20.6	-	46.0	-	25.4	-	
Hori.	495.882	34.0	-	18.0	9.8	29.1	-	32.7	-	46.0	-	13.3	-	
Hori.	613.975	88.3	-	19.5	10.2	29.3	-	88.7	-	106.0	-	17.3	-	Carrier
Hori.	614.000	25.7	-	19.5	10.2	29.3	-	26.1	-	46.0	-	19.9	-	Refer to Maker Delta Method
Hori.	1227.950	---	44.3	25.7	4.3	35.8	-	---	38.5	---	53.9	---	15.5	VBW 10Hz
Hori.	1841.925	---	37.7	25.4	3.4	35.2	-	---	31.2	---	53.9	---	22.7	VBW 10Hz
Hori.	2455.900	---	39.2	27.5	3.7	34.9	-	---	35.4	---	53.9	---	18.5	VBW 10Hz
Hori.	3069.875	---	45.1	28.5	4.1	34.6	-	---	43.2	---	53.9	---	10.7	VBW 10Hz
Hori.	3683.850	---	38.5	29.2	4.9	34.2	-	---	38.5	---	53.9	---	15.4	VBW 10Hz
Hori.	4297.825	---	33.4	30.6	5.4	34.0	-	---	35.3	---	53.9	---	18.6	Floor noise
Hori.	4911.800	---	36.9	31.7	5.5	34.2	-	---	40.0	---	53.9	---	13.9	VBW 10Hz
Hori.	5525.775	---	40.0	31.9	5.7	33.9	-	---	43.7	---	53.9	---	10.2	VBW 10Hz
Hori.	6139.750	---	37.7	32.8	5.9	34.0	-	---	42.4	---	53.9	---	11.5	VBW 10Hz
Vert.	122.914	29.7	-	13.2	7.6	28.3	-	22.1	-	46.0	-	23.9	-	
Vert.	153.592	26.2	-	15.1	7.8	28.2	-	20.9	-	46.0	-	25.2	-	
Vert.	212.006	21.6	-	11.7	8.2	27.9	-	13.6	-	46.0	-	32.5	-	
Vert.	288.002	27.0	-	14.0	8.6	27.8	-	21.8	-	46.0	-	24.2	-	
Vert.	495.882	31.4	-	18.0	9.8	29.1	-	30.1	-	46.0	-	15.9	-	
Vert.	613.975	88.6	-	19.5	10.2	29.3	-	89.0	-	106.0	-	17.0	-	Carrier
Vert.	614.000	24.9	-	19.5	10.2	29.3	-	25.4	-	46.0	-	20.6	-	Refer to Maker Delta Method
Vert.	1227.950	---	44.8	25.7	2.3	35.8	-	---	36.9	---	53.9	---	17.0	VBW 10Hz
Vert.	1841.925	---	36.9	25.4	3.4	35.2	-	---	30.4	---	53.9	---	23.5	VBW 10Hz
Vert.	2455.900	---	39.0	27.5	3.7	34.9	-	---	35.2	---	53.9	---	18.7	VBW 10Hz
Vert.	3069.875	---	43.8	28.5	4.1	34.6	-	---	41.9	---	53.9	---	12.0	VBW 10Hz
Vert.	3683.850	---	37.9	29.2	4.9	34.2	-	---	37.9	---	53.9	---	16.0	VBW 10Hz
Vert.	4297.825	---	33.3	30.6	5.4	34.0	-	---	35.2	---	53.9	---	18.7	Floor noise
Vert.	4911.800	---	35.9	31.7	5.5	34.2	-	---	39.0	---	53.9	---	14.9	VBW 10Hz
Vert.	5525.775	---	37.4	31.9	5.7	33.9	-	---	41.1	---	53.9	---	12.8	VBW 10Hz
Vert.	6139.750	---	38.3	32.8	5.9	34.0	-	---	43.1	---	53.9	---	10.8	VBW 10Hz

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

\*QP detector was used up to 960MHz.

**Marker Delta Method(Test distance 3 m)**

		Polarity	AV			
			Hor.		Ver.	
			[dBuV]	[dBuV/m]	[dBuV]	[dBuV/m]
Step1	Fundamental(613.975 MHz)	QP	88.30	88.74	88.60	89.04
Step2	Fundamental(613.975 MHz)	1 kHz / 3 kHz	87.33	87.77	87.25	87.69
	Band-edge(614 MHz)	1 kHz / 3 kHz	25.65	26.09	24.92	25.36
	Amplitude delta	-	61.68	61.68	62.33	62.33
Step3	Field strength of band-edge	-	-	27.06	-	26.71
	Limit	-	-	46.0	-	46.0
	Margin	-	-	18.9	-	19.3

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter) - Gain(Amplifier)

\*1 Amplitude delta = Fundamental(RBW: kHz,VBW: kHz) - Band-edge(RBW: kHz,VBW: kHz)

\*2 Field strength of band-edge = Fundamental(AV) - Amplitude delta

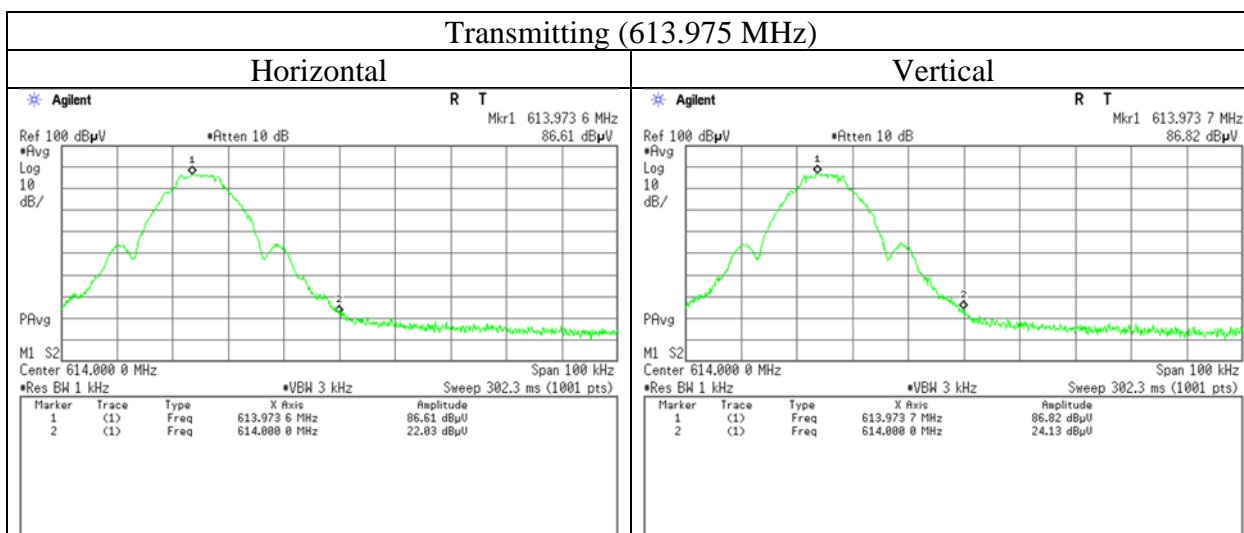
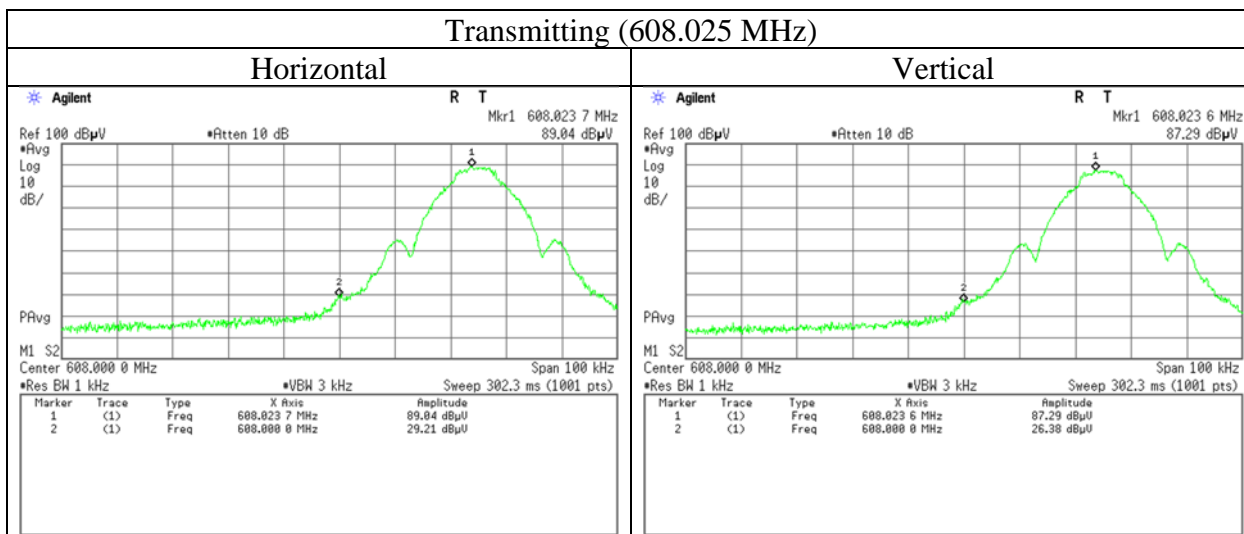
\*As we stated at section ("Bandedge" section), we used RBW = 1 kHz (greater than 1 % bandwidth) to prevent to detect in-band emission. Refer to KDB 971168 D01

(KDB 971168 D01 Power Meas Licence Digital System D03r01).

**Field Strength(Electric Field Strength of Fundamental Emission,  
Spurious Emission and Band Edge Compliance)**

Test place                    Ise EMC Lab.  
Semi Anechoic Chamber    No.2  
Date                            March 1, 2023  
Temperature / Humidity    22 deg. C / 48 % RH  
Engineer                      Kiyoshiro Okazaki  
                                      (Below 1 GHz)  
Mode                            Tx

Reference Plot for Band Edge compliance (Marker Delta Method)



\* Final results were shown in tabular data.

## APPENDIX 2: Test instruments

### Test equipment

Test Item	Local ID	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	COTS-MEMI-02	178648	EMI measurement program	TSJ (Techno Science Japan)	TEPTO-DV	-	-	-
RE	MAEC-02	142004	AC2_Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-06902	05/30/2022	24
RE	MAT-112	220646	Attenuator	Huber+Suhner	6806_N-50-1	-	06/07/2022	12
RE	MBA-08	141427	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	VHA9103B +BBA9106	08031	07/30/2022	12
RE	MCC-12	141317	Coaxial Cable	UL Japan	-	-	09/27/2022	12
RE	MCC-218	141394	Microwave Cable	Junkosha	MWX221	1607S141(1 m) / 1608S264(5 m)	09/12/2022	12
RE	MHA-06	141512	Horn Antenna 1-18GHz	Schwarzbeck Mess-Elektronik OHG	BBHA9120D	254	10/20/2022	12
RE	MHF-04	141403	High Pass Filter 1.22-4.60GHz	Mini-Circuits	VHF-1200	10435	08/01/2022	12
RE	MHF-26	141296	High Pass Filter 3.5-18.0GHz	UL Japan	HPF SELECTOR	002	09/08/2022	12
RE	MJM-27	142228	Measure, Tape, Steel	KOMELON	KMC-36	-	-	-
RE	MLA-21	141265	Logperiodic Antenna (200-1000MHz)	Schwarzbeck Mess- Elektronik OHG	VUSLP9111B	9111B-190	07/30/2022	12
RE	MMM-01	141542	Digital Tester	Fluke Corporation	FLUKE 26-3	78030611	08/12/2022	12
RE	MOS-41	192300	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	0013	12/17/2022	12
RE	MPA-10	141579	Pre Amplifier	Keysight Technologies Inc	8449B	3008A02142	02/14/2023	12
RE	MPA-24	141594	Pre Amplifier	Keysight Technologies Inc	8447D	2944A10150	02/02/2023	12
RE	MSA-16	141903	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46186390	01/16/2023	12
RE	MTR-03	141942	Test Receiver	Rohde & Schwarz	ESCI	100300	07/29/2022	12
AT	MAT-26	141244	Attenuator(10dB)	Weinschel – API Technologies Corp	WA8-10-34	A198	02/01/2023	12
AT	MCC-243	196430	Microwave Cable	Huber+Suhner	SF102D/11PC24/ 11PC24/1000mm	537059/126EA	02/02/2023	12
AT	MCH-05	141440	Temperature and Humidity Chamber	Espec	PL-1KP	14019569	04/24/2022	12
AT	MMM-17	141557	DIGIITAL HiTESTER	HIOKI E.E. CORPORATION	3805	70900530	01/18/2023	12
AT	MOS-28	141567	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	0008	01/13/2023	12
AT	MPM-08	141805	Power Meter	Anritsu Corporation	ML2495A	6K00003338	07/04/2022	12
AT	MPSE-11	141840	Power sensor	Anritsu Corporation	MA2411B	11737	07/04/2022	12
AT	MSA-14	141901	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY48250080	01/16/2023	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: RE: Radiated Emission  
AT: Antenna Terminal Conducted