

TEST REPORT

Report No.: 22030138HKG-002

BBPOS Limited

Application For Certification
(Original Grant)

FCC ID: 2AB7X-CHB2H

Transceiver

Prepared and Checked by:

Approved by:

Signed On File

Wong Cheuk Ho, Herbert
Lead Engineer

Wong Kwok Yeung, Kenneth
Assistant Supervisor
Date: April 08, 2022

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TEST REPORT

GENERAL INFORMATION

Grantee:	BBPOS Limited
Grantee Address:	Suite 1902-04, 19/F, Tower 2, Nina Tower, No. 8 Yeung Uk Road, Tsuen Wan, N.T., HK
Contact Person:	Adrian Kwan
Tel:	+852 3158 2585
Fax:	+852 3158 2586
e-mail:	Adrian.kwan@bbpos.com
Manufacturer:	BBPOS Limited
Manufacturer Address:	Suite 1902-04, 19/F, Tower 2, Nina Tower, No. 8 Yeung Uk Road, Tsuen Wan, N.T., HK
Brand Name:	Toast
Model:	CHB2H
Type of EUT:	Transceiver
Description of EUT:	Toast Tap
Serial Number:	N/A
FCC ID:	2AB7X-CHB2H
Date of Sample Submitted:	March 03, 2022
Date of Test:	March 03, 2022 to March 28, 2022
Report No.:	22030138HKG-002
Report Date:	April 08, 2022
Environmental Conditions:	Temperature: +10 to 40°C Humidity: 10 to 90%
Conclusion:	Test was conducted by client submitted sample. The submitted sample as received complied with the 47 CFR Part 15 Certification.

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SUMMARY OF TEST RESULT

Test Specification	Reference	Results
Transmitter Power Line Conducted Emissions	15.207	Pass
Transmitter Field Strength Frequency Stability	15.225	Pass
Radiated Emission	15.209	Pass
Radiated Emission on the Bandedge		
Radiated Emission in Restricted Bands	15.205	Pass

The equipment under test is found to be complying with the following standards:
FCC Part 15, October 1, 2020 Edition

Note: 1. The EUT uses a permanently attached antenna which, in accordance to section 15.203, is considered sufficient to comply with the provisions of this section.
2. Pursuant to FCC part 15 Section 15.215(c), the 20 dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered.

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1.0 GENERAL DESCRIPTION

1.1 Product Description

The Equipment Under Test (EUT) is a POS device (point of sale device). It supports reading magnetic stripe credit card, EMV smart credit card and passive RFID tag credit card. It can be connected to PC via USB port and operated by a corresponding software. The magnetic head is for reading data from credit card tape swiping. The embedded EMV chip interface is used for reading EMV smart credit card data. The EUT contains 13.56MHz NFC tag reader for contactless payment card transaction. The EUT is powered by USB port (5VDC).

There are two versions of sample submitted. Both versions are the same in electronic design and mechanical construction, including RF parameters of NFC portion. The only difference between two versions is the resistor which is for voltage measurement purpose. Both versions were tested and only worse case data is present in this report.

Antenna Type: Internal, Integral

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

1.2 Related Submittal(s) Grants

This is a single application for certification of a transceiver.

1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). All radiated measurements were performed in an 3m Chamber. Preliminary scans were performed in the 3m Chamber 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 3m Chamber and conducted measurement facility used to collect the radiated data is located at Workshop No. 3, G/F., World-Wide Industrial Centre, 43-47 Shan Mei Street, Fo Tan, Sha Tin, N.T., Hong Kong SAR, China. This test facility and site measurement data have been placed on file with the FCC.

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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 C63.10 (2013).

The device was powered by USB port (5VDC).

For maximizing emissions 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 at and 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 report in Exhibit 3.0.

The rear of unit shall be flushed with the rear of the table.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was mounted to a plastic stand if necessary and placed on the wooden turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

2.2 EUT Exercising Software

The EUT exercise program (if any) used during radiated testing was designed to exercise the various system components in a manner similar to a typical use.

2.3 Special Accessories

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

2.4 Measurement Uncertainty

Decision Rule for compliance: For FCC/IC standard, the measured value must be within the limits of applicable standard without accounting for the measurement uncertainty. For EN/IEC/HKTA/HKTC standard, conformity rules will be used as per standard directly excepted EN/IEC 61000-3-2, EN/IEC 61000-3-3, HKTA1004, HKCA1008, HKTA1019, HKTA1020, HKTA1041 and HKTA1044. For these excepted or not mentioned standards, Cl 4.2.2 of ILAC-G8:09/2019 decision rules will be reference and guard band will be equal to our measurement uncertainty with 95% confidence level ($k=2$). In case, the measured value is within guard band region, undetermined decision will be used.

Uncertainty and Compliance - Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value.

2.5 Support Equipment List and Description

LAN cable of 20m long with termination (Provided by Intertek)
HP Notebook Computer (Adaptor Model: HSTNN-CA15) (Provided by Intertek)
USB cable of 90cm long with ferrite (Provided by Applicant)

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3.0 EMISSION RESULTS

Data is included of the 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.

3.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any), Average Factor (optional) from the measured reading. The basic equation with a sample calculation is as follows:

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

where FS = Field Strength in dB μ V/m

RA = Receiver Amplitude (including preamplifier) in dB μ V

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB

AG = Amplifier Gain in dB

AV = Average Factor in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows:

$$FS = RR + LF$$

where FS = Field Strength in dB μ V/m

RR = RA - AG - AV in dB μ V

LF = CF + AF in dB

Assume a receiver reading of 52.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB are added. The amplifier gain of 29 dB and average factor of 5 dB are subtracted, giving a field strength of 27 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

$$RA = 52.0 \text{ dB}\mu\text{V/m}$$

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

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

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

$$AV = 5.0 \text{ dB}$$

$$FS = RR + LF$$

$$FS = 18 + 9 = 27 \text{ dB}\mu\text{V/m}$$

$$RR = 18.0 \text{ dB}\mu\text{V}$$

$$LF = 9.0 \text{ dB}$$

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(27 \text{ dB}\mu\text{V/m})/20] = 22.4 \mu\text{V/m}$$

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3.2 Radiated Emission Configuration Photograph

The worst case in radiated emission was found at 155.978 MHz

For electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

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.

Judgment: Passed by 6.0 dB

3.4 Conducted Emission Configuration Photograph

The worst case in line-conducted emission was found at 13.560 MHz

For electronic filing, the worst-case line-conducted configuration photographs are saved with filename: conducted photo.pdf.

3.5 Conducted Emission Data

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

Judgment: Pass by 1.8 dB

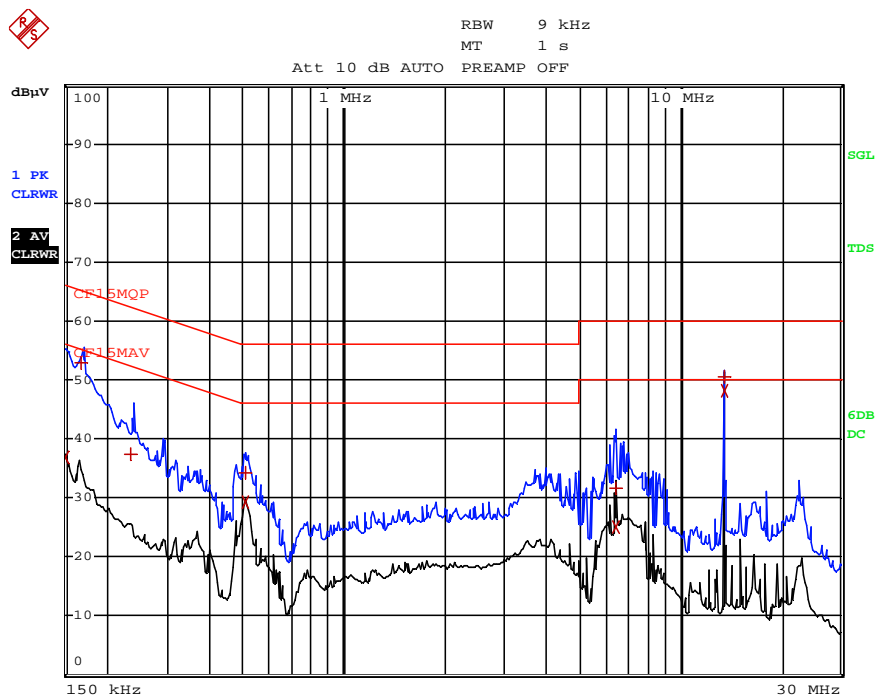
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CONDUCTED EMISSION

Model: CHB2H

Date of Test: March 28, 2022

Worst-Case Operating Mode: NFC Operating



EDIT PEAK LIST (Final Measurement Results)				
Trace1:	CF15MQP			
Trace2:	CF15MAV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV		DELTA LIMIT dB
2 CISPR Average	150 kHz	36.98	N	-19.01
1 Quasi Peak	168 kHz	52.86	N	-12.19
1 Quasi Peak	235.5 kHz	37.43	N	-24.81
1 Quasi Peak	510 kHz	34.33	N	-21.66
2 CISPR Average	510 kHz	29.29	N	-16.70
2 CISPR Average	6.4545 MHz	25.03	N	-24.96
1 Quasi Peak	6.4725 MHz	31.69	N	-28.30
1 Quasi Peak	13.56 MHz	50.55	L1	-9.44
2 CISPR Average	13.56 MHz	48.18	N	-1.81

Note: Measurement Uncertainty is ± 4.2 dB at a level of confidence of 95%.

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RADIATED EMISSIONS

Model: CHB2H

Date of Test: March 28, 2022

Worst-Case Operating Mode: NFC

Table 1
Pursuant to FCC Part 15 Section 15.225 Requirement

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Distance Factor (-dB)	Calculated at 30m (dB μ V/m)	Limit at 30m (dB μ V/m)	Margin (dB)
O	13.560	46.4	0	10.8	57.2	40.0	17.2	84.0	-66.8
O	27.120	8.7	0	9.5	18.2	40.0	-21.8	29.5	-51.3

- NOTES:
1. Quasi-Peak Detector Data is used unless otherwise stated.
 2. All measurements were made at 3 meters.
 3. Negative value in the margin column shows emission below limit.
 4. Loop antenna is used for the emissions below 30MHz.
 5. Emissions within the restricted band meets the requirement of FCC Part 15 Section 15.205.
 6. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.

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Model: CHB2H

Date of Test: March 28, 2022

Worst-Case Operating Mode: NFC Operating

Table 2
Pursuant to FCC Part 15 Section 15.209 Requirement

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
H	40.672	33.5	16	10.0	27.5	40.0	-12.5
H	67.708	31.5	16	8.0	23.5	40.0	-16.5
H	102.022	30.6	16	13.0	27.6	43.5	-15.9
H	149.432	34.5	16	14.0	32.5	43.5	-11.0
H	155.978	37.5	16	16.0	37.5	43.5	-6.0
H	161.435	37.4	16	16.0	37.4	43.5	-6.1
V	246.188	28.4	16	20.0	32.4	46.0	-13.6
V	342.218	26.5	16	24.0	34.5	46.0	-11.5
H	354.102	27.8	16	24.0	35.8	46.0	-10.2

- NOTES:
1. Quasi-Peak Detector and Peak Data are used unless otherwise stated.
 2. All measurements were made at 3 meters.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna is used for the emission over 1000MHz.
 5. Emissions within the restricted band meets the requirement of FCC Part 15 Section 15.205.
 6. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.

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3.6 Frequency Stability

Frequency Deviation with Voltage Variation

Pursuant to FCC Part 15 Section 15.225 Requirement

Operating Frequency		13.560MHz		
Test Voltage (V)	Temperature (°C)	Measured Frequency (MHz)	Frequency Error (%)	Limit (%)
120	+ 50	13.560772	+0.0057	±0.01
	+ 40	13.560768	+0.0057	±0.01
	+ 30	13.560768	+0.0057	±0.01
	+ 20	13.560762	+0.0056	±0.01
	+ 10	13.560752	+0.0055	±0.01
	0	13.560748	+0.0055	±0.01
	- 10	13.560744	+0.0055	±0.01
	- 20	13.560744	+0.0055	±0.01

Nominal Frequency		13.560MHz			
Temperature (°C) Humidity (%)	Voltage	Frequency (MHz)	Frequency Error (ppm)	Limit (ppm)	Result
20°C 50%	102	13.560768	56.6	100	Pass
20°C 50%	120	13.560762	56.2	100	Pass
20°C 50%	132	13.560758	55.9	100	Pass
Min -20C 0%	102	13.560748	55.2	100	Pass
Min -20C 0%	120	13.560744	54.9	100	Pass
Min -20C 0%	132	13.560742	54.7	100	Pass
Max 50C 50%	102	13.560774	57.1	100	Pass
Max 50C 50%	120	13.560772	56.9	100	Pass
Max 50C 50%	132	13.560768	56.6	100	Pass

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4.0 EQUIPMENT PHOTOGRAPHS

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

5.0 PRODUCT LABELLING

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

6.0 TECHNICAL SPECIFICATIONS

For electronic filing, the block diagram and schematic of the tested EUT are saved with filename: block.pdf and circuit.pdf respectively.

7.0 INSTRUCTION MANUAL

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

This manual will be provided to the end-user with each unit sold/leased in the United States.

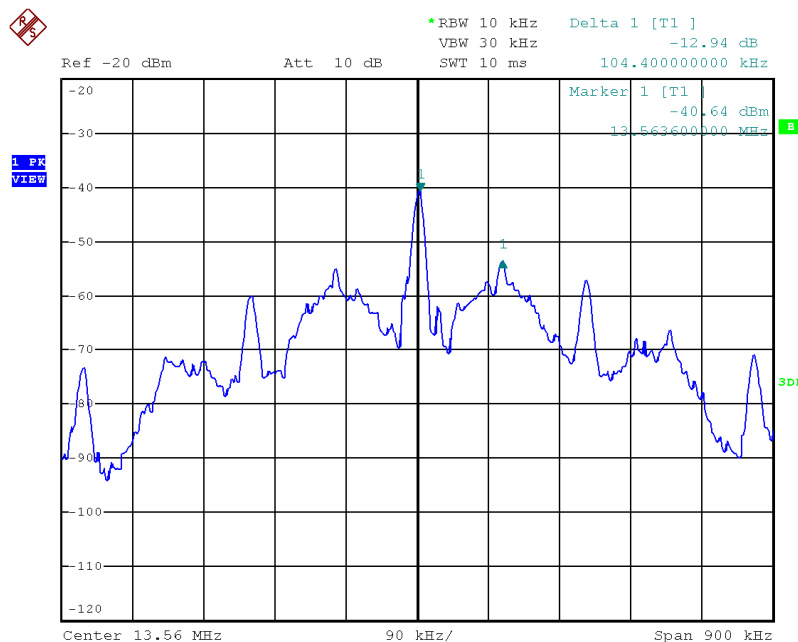
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8.0 MISCELLANEOUS INFORMATION

The miscellaneous information includes details of the test procedure.

8.1 Measured Bandwidth

The plot saved in bw.pdf which shows the fundamental emission is confined in the specified band. The emission of the fundamental is 17.2 dB μ V/m and it is below the limit of 50.5 dB μ V/m in the range of (13.410-13.553MHz) and (13.710-14.010MHz) and the limit of 40.5 dB μ V/m in the frequency range of (13.110-14.410MHz) and (13.710-14.010MHz). In the frequency range from 13.110-14.010MHz, we cannot find any emission higher than the fundamental emission. Therefore they meet the requirement of Section 15.225(a), (b), (c), & (d).



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8.2 Discussion of Pulse Desensitization

Pulse desensitization is not applicable for this device. Since the transmitter transmits the RF signal continuously.

8.3 Calculation of Average Factor

N/A

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8.4 Emissions Test Procedures

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

The transmitting equipment under test (EUT) is placed on a wooden turntable which is four feet in diameter and approximately 0.8m in height above the ground plane for emission measurement at or below 1GHz and 1.5m in height above the ground plane for emission measurement above 1GHz. 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 EUT is adjusted through all three orthogonal axis to obtain maximum emission levels. The antenna height and polarization are also varied during the testing to search for maximum signal levels. The height of the antenna is varied from one to four meters.

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. A detailed description for the calculation of the average factor can be found in Exhibit 8.3.

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.

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 were made as described in ANSI C63.10 (2013).

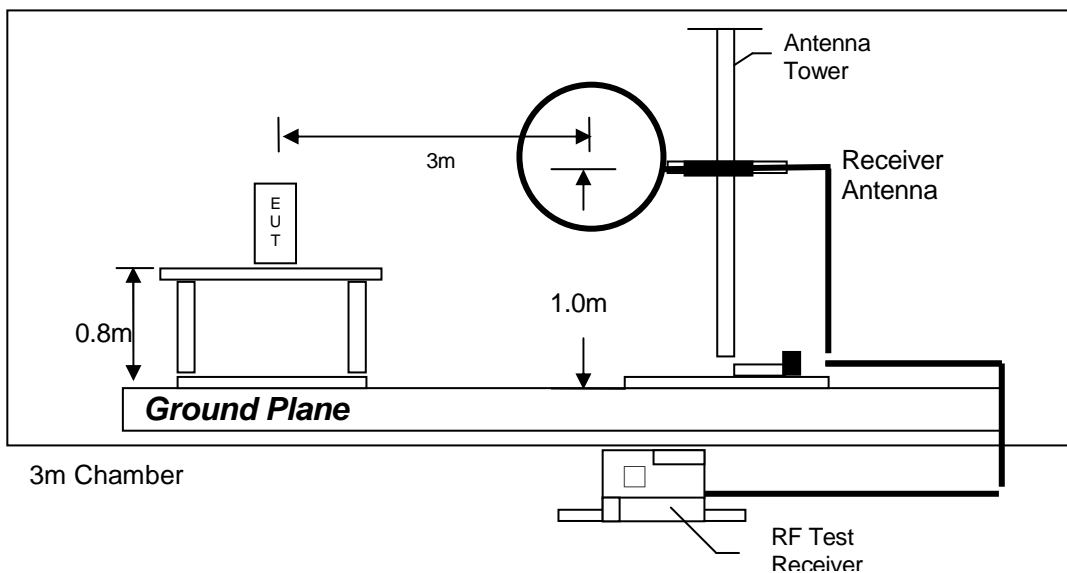
The IF bandwidth used for measurement of radiated signal strength was 100 kHz or greater when frequency is below 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion of whether pulse desensitivity is applicable to this unit is included in this report (See Exhibit 8.1). Above 1000 MHz, a resolution bandwidth of 3 MHz is used.

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the forbidden 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, unless otherwise reported. Measurements taken at a closer distance are so marked.

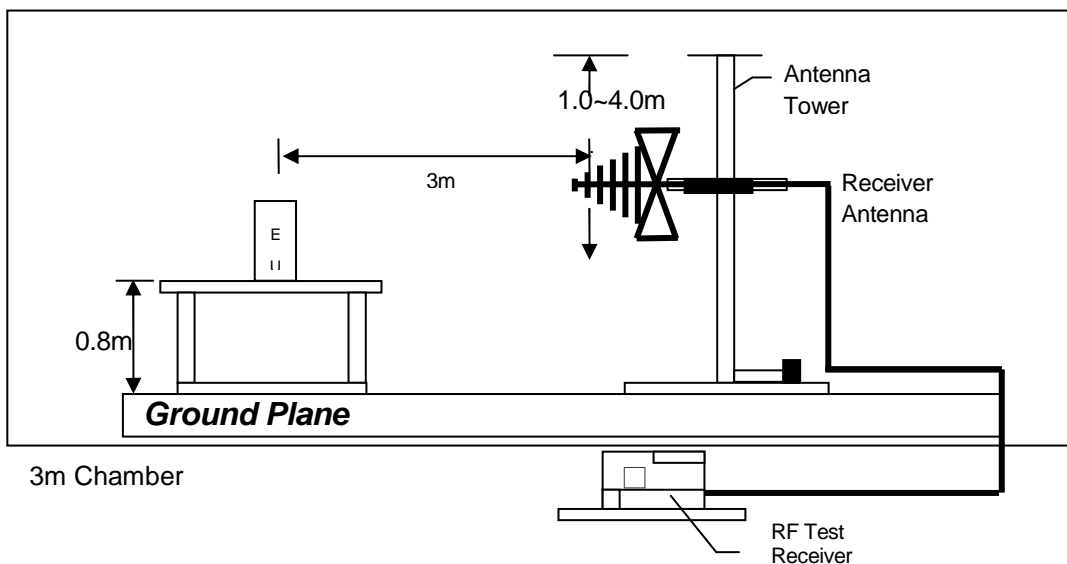
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8.4.1 Radiated Emission Test Setup

The figure below shows the test setup, which is utilized to make these measurements.



Test setup of radiated emissions 9kHz to 30MHz



Test setup of radiated emissions 30MHz to 1GHz

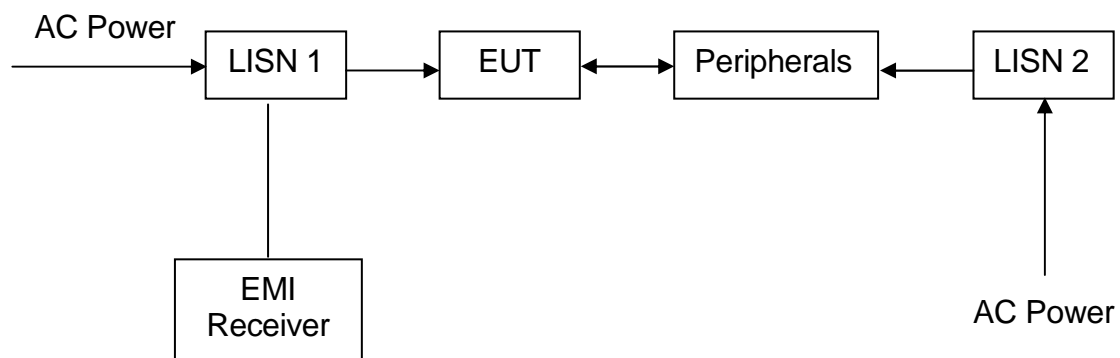
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8.4.2 Conducted Emission Test Procedures

For tabletop equipment, the EUT along with its peripherals were placed on a 1.0m(W)×1.5m(L) and 0.8m in height wooden table. For floor-standing equipment, the EUT and all cables were insulated, if required, from the ground plane by up to 12 mm of insulating material. The EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane. The EUT was connected to power mains through a line impedance stabilization network (LISN), which provided 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. The excess power cable between the EUT and the LISN was bundled.

All connecting cables of EUT and peripherals were moved to find the maximum emission.

8.4.3 Conducted Emission Test Setup



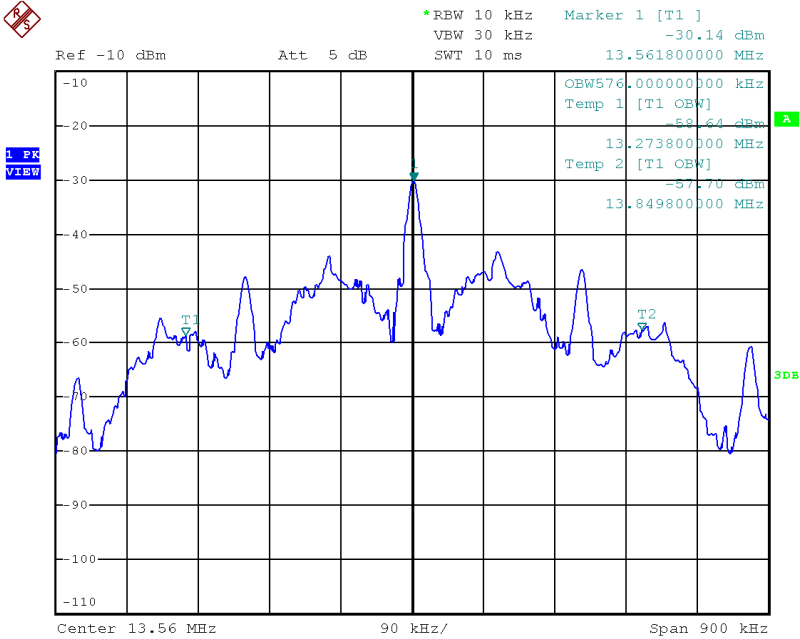
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8.5 Occupied Bandwidth

Occupied Bandwidth Results:

Frequency (MHz)	Occupied Bandwidth (kHz)
13.56MHz	576

The worst case is shown as below



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9.0 CONFIDENTIALITY REQUEST

For electronic filing, a preliminary copy of the confidentiality request is saved with filename: request.pdf.

10.0 EQUIPMENT LIST

1) Radiated Emissions Test

Equipment	EMI Test Receiver	Spectrum Analyzer	Biconical Antenna (20MHz to 200MHz)
Registration No.	EW-2500	EW-2466	EW-3061
Manufacturer	ROHDESCHWARZ	ROHDESCHWARZ	EMCO
Model No.	ESCI	FSP30	3142E
Calibration Date	March 29, 2021	November 18, 2019	February 02, 2021
Calibration Due Date	March 29, 2022	August 18, 2022	August 02, 2022

Equipment	Log Periodic Antenna	Double Ridged Guide Antenna	Active Loop H-field (9kHz to 30MHz)
Registration No.	EW-3243	EW-1133	EW-3302
Manufacturer	EMCO	EMCO	EMCO
Model No.	3148B	3115	6502
Calibration Date	June 30, 2021	June 03, 2021	December 13, 2021
Calibration Due Date	December 30, 2022	June 03, 2022	June 13, 2023

Equipment	RF Preamplifier (9kHz to 6000MHz)	Pyramidal Horn Antenna	14m Double Shield RF Cable (20MHz to 6GHz)
Registration No.	EW-3006b	EW-0905	EW-2074
Manufacturer	SCHWARZBECK	EMCO	RADIAL
Model No.	BBV9718	3160-09	N(m)-RG142-BNC(m) L=14M
Calibration Date	November 25, 2019	July 23, 2019	November 14, 2019
Calibration Due Date	June 25, 2022	June 23, 2022	August 14, 2022

2) Conducted Emissions Test

Equipment	RF Cable 240cm (RG142) (9kHz to 30MHz)	Artificial Mains Network	EMI Test Receiver
Registration No.	EW-2454	EW-2501	EW-2500
Manufacturer	RADIAL	ROHDESCHWARZ	ROHDESCHWARZ
Model No.	Bnc m st / 142 / bnc mra 240cm	ENV-216	ESCI
Calibration Date	November 10, 2020	September 11, 2021	March 29, 2021
Calibration Due Date	May 10, 2022	September 11, 2022	March 29, 2022

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3) Bandwidth / Bandedge Measurement

Equipment	Spectrum Analyzer	RF Cable 240cm (RG142) (9kHz to 30MHz)
Registration No.	EW-2466	EW-2454
Manufacturer	ROHDESCHWARZ	RADIAL
Model No.	FSP30	Bnc m st / 142 / bnc mra 240cm
Calibration Date	November 18, 2019	November 10, 2020
Calibration Due Date	August 18, 2022	May 10, 2022

4) Frequency Error Measurement

Equipment	RF Cable 240cm (RG142) (9kHz to 30MHz)	Spectrum Analyzer	Temperature & Humidity Chamber
Registration No.	EW-2454	EW-2466	EW-1580
Manufacturer	RADIAL	ROHDESCHWARZ	ESPEC
Model No.	Bnc m st / 142 / bnc mra 240cm	FSP30	PL-4KP
Calibration Date	November 10, 2020	November 18, 2019	October 11, 2021
Calibration Due Date	May 10, 2022	August 18, 2022	September 30, 2022

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5) Control Software for Radiated Emission

Software Information	
Software Name	EMC32
Manufacturer	ROHDESCHWARZ
Software version	10.50.40

END OF TEST REPORT