ELECTROMAGNETIC EMISSION COMPLIANCE REPORT

Test Report No.	**: OT-199-RWD-047**
AGR No.	**: A195A-069**
Applicant	**: BBB Inc.**
Address	**: 28, Yatap-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea**
Manufacturer	**: BBB Inc.**
Address	**: 28, Yatap-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea**
Type of Equipment	**: Immunoassay Analyzer**
FCC ID	**: 2AKGP-MB100**
Model Name	**: MB-100**
Multiple Model Name	**: N/A**
Serial number	**: N/A**
Total page of Report	**: 22 pages (including this page)**
Date of Incoming	**: May 13, 2019**
Date of Issuing	**: September 24, 2019**

SUMMARY

The equipment complies with the requirements of **FCC CFR 47 PART 15 SUBPART C Section 15.225**

This test report contains only the result of a single test of the sample supplied for the examination.

It is not a general valid assessment of the features of the respective products of the mass-production.

Reviewed by: Ha-Ram Lee / Assistant Manager, ONETECH Corp.

Approved by: Jae-Ho Lee / Chief Engineer, ONETECH Corp.

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

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ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

REVISION HISTORY

Issued Report No.	Issued Date	Revisions	Effect Section
OT-199-RWD-047	September 24, 2019	Initial Issue	All

1. VERIFICATION OF COMPLIANCE

Applicant : BBB Inc.

Address : 28, Yatap-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

Contact Person : Jaekyu Choi / CEO

Telephone No. : +82-2-565-9653

FCC ID : 2AKGP-MB100

Model Name : MB-100

Brand Name : -

Serial Number : N/A

Date : September 24, 2019

DEVICE TYPE	DXX – Low Power Communication Device Transmitter
E.U.T. DESCRIPTION	Immunoassay Analyzer
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2013
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC CFR47 Part 15 Subpart C Section 15.225
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	None
FINAL TEST WAS CONDUCTED ON	3 m Semi Anechoic Chamber

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

2. TEST SUMMARY

2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.225 (a),(b),(c)	The field strength of any emissions	Met the Limit / PASS
15.225 (e)	Frequency stability with temperature & voltage variation	Met the Limit / PASS
15.209	Radiated Emission Limits	Met the Limit / PASS
15.207	Conducted Limits	Met the Limit / PASS
15.203	Antenna Requirement	Met requirement / PASS

2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

2.3 Related Submittal(s) / Grant(s)

Original submittal only

2.4 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in FCC PART 15 SUBPART C Section 15.225.

2.5 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10: 2013. Radiated testing was performed at a distance of 3 m from EUT to the antenna.

2.6 Test Facility

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025.

The Electromagnetic compatibility measurement facilities are located at 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea

-. Site Filing:

VCCI (Voluntary Control Council for Interference) – Registration No. R-4112/ C-14617/ G-10666 / T-1842

IC (Industry Canada) – Registration No. Site# 3736A-3

-. Site Accreditation:

KOLAS (Korea Laboratory Accreditation Scheme) - Accreditation NO. KT085

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) – Designation No. KR0013

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3. GENERAL INFORMATION

3.1 Product Description

The BBB Inc., Model MB-100 (referred to as the EUT in this report) is a Immunoassay Analyzer, Product specification information described herein was obtained from product data sheet or user's manual.

Device Type	Immunoassay Analyzer	
Operating Frequency	Bluetooth LE	2 402 MHz ~ 2 480 MHz
	WLAN 2.4 GHz Band	2 412 MHz ~ 2 462 MHz (802.11b/g/n(HT20))
		2 422 MHz ~ 2 452 MHz (802.11n(HT40))
	NFC	13.56 MHz
RF Output Power	Bluetooth LE	-6.78 dBm
	WLAN 2.4 GHz Band	802.11b (13.13 dBm) 802.11g (10.67 dBm) 802.11n(HT20) (11.01 dBm) 802.11n(HT40) (10.81 dBm)
Number of Channel	Bluetooth LE	40 Channels
	WLAN 2.4 GHz Band	11 Channels
	NFC	1 Channel
Modulation Type	Bluetooth LE	DSSS Modulation(GFSK)
	WLAN 2.4 GHz Band	DSSS Modulation(DBPSK/DQPSK/CCK) OFDM Modulation(BPSK/QPSK/16QAM/64QAM)
	NFC	ASK
Antenna Type	Bluetooth LE	FPC Antenna
	WLAN 2.4 GHz Band	
	NFC	PCB Antenna
Antenna Gain	Bluetooth LE	1.74 dBi
	WLAN 2.4 GHz Band	
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	32.768kHz	
Rated Supply Voltage	DC 3.8 V	

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3.2 Alternative type(s)/model(s); also covered by this test report.

-. None

4. EUT MODIFICATIONS

-. None

5. SYSTEM TEST CONFIGURATION

5.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
Main Board	N/A	N/A	-
Sub Board	N/A	N/A	-
NFC Board	N/A	N/A	
Module Board	N/A	N/A	-
Display	N/A	N/A	
Main Battery	N/A	N/A	
Sub Battery	N/A	N/A	-

5.2 Peripheral equipment

-None

5.3 Mode of operation during the test

-. The EUT has NFC, program was used for making continuous transmission mode during the test.

To get a maximum radiated emission levels from the EUT, the EUT was moved throughout the XY, XZ, and YZ planes and the worst case is “XY” axis, but the worst data was recorded in this test report.

5.4 Equipment Modifications

-. None

5.5 Configuration of Test System

Radiated Emission Test : Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2013 to determine the worse operating conditions. The radiated emissions measurements were performed on the 10 m Semi Anechoic Chamber.

For frequencies from 150 kHz to 30 MHz measurements were made of the magnetic H field. The measuring antenna is an electrically screened loop antenna.

The frequency spectrum from 30 MHz to 1 000 MHz was scanned and maximum emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

5.6 Antenna Requirement

For intentional device, according to section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna Construction:

The transmitter antenna of the EUT is a PCB antenna so there is no consideration of replacement by the user.

6. PRELIMINARY TEST

6.1 AC Power line Conducted Emissions Tests

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worse operating condition (Please check one only)
Charging mode	X

6.2 Radiated Emissions Tests

During Preliminary Tests, the following operating modes were investigated

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X

7. FINAL RESULT OF MEASUREMENT

Preliminary test was done in normal operation mode. And the final measurement was selected for the maximized emission level.

7.1 RADIATED EMISSION TEST

7.1.1 Operation frequency band: 13.553 ~ 13.567 MHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 47 % R.H. Temperature: 24 ℃

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Type of Test : Low Power Transmitter Operation within the band 1.705-30.0 MHz.

Result : PASSED

EUT : Immunoassay Analyzer Date: September 04, 2019

Operating Condition : Transmitting Mode

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 9 kHz)

Distance : 3 m

Radiated Emission		Ant	Correction Factors		Total	FCC	
Freq. (MHz)	Amplitude (dBμV)	Pol.	Antenna (dB/m)	Cable (dB)	Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
13.56	15.64	H	19.98	1.09	36.71	124	87.29
13.56	9.53	V	19.98	1.09	30.6	124	93.4

Remark. The EUT was tested at 3 m, so conversation factor was included at above limit.

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7.1.2 Operation frequency band: Below 13.553 MHz and above 13.567 MHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 47 % R.H. Temperature: 24 ℃

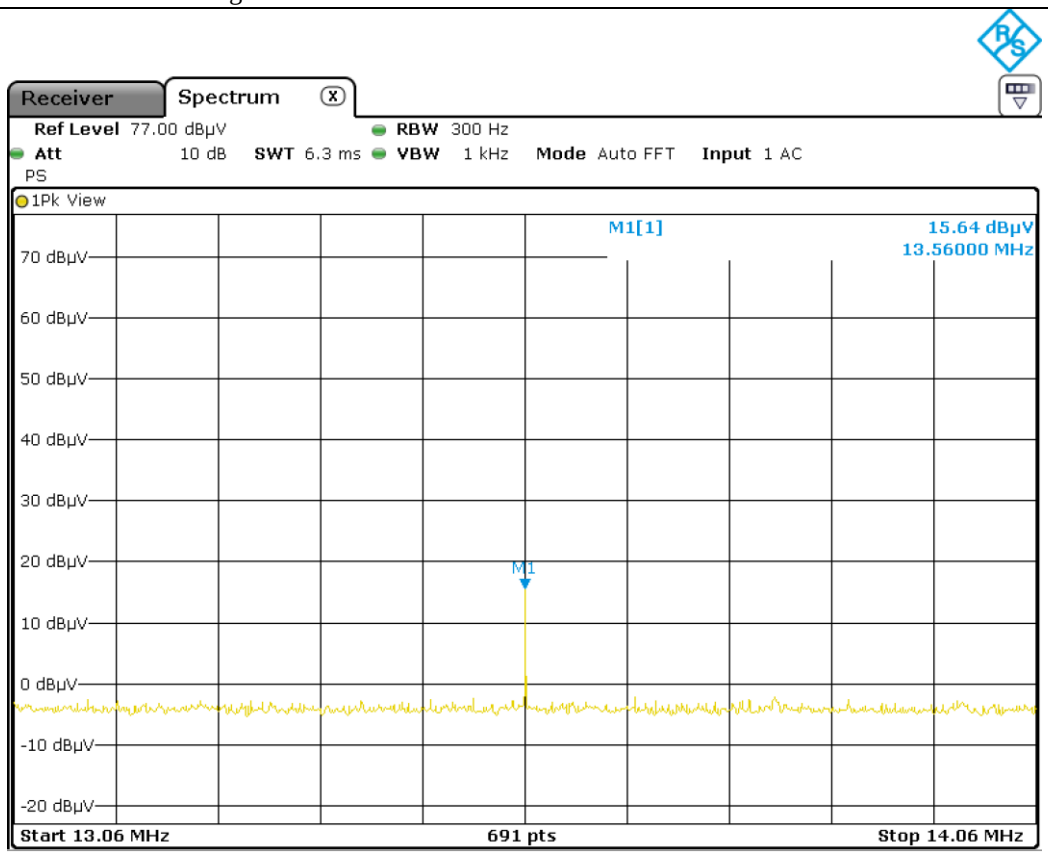
Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Type of Test : Low Power Transmitter Operation within the band 1.705-30.0 MHz.

Result : PASSED

EUT : Immunoassay Analyzer Date: September 04, 2019

Operating Condition : Transmitting Mode



cc. to above test data, the field strength level of 13.56 MHz is 32.16 dBuV/m and the worst limit subject to 15.225 (b) and (c) is 80.5 dBuV/m, so the EUT meets the requirement.

Tested by: Yu-Seog Sim / Assistant Manager

7.2 SPURIOUS EMISSION TEST

7.2.1 Spurious Radiated Emission Below 30 MHz

Humidity Level : 47 % R.H. Temperature: 24 ℃

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Type of Test : Low Power Transmitter Operation within the band 1.705-30.0 MHz.

Frequency Range : 9 kHz ~ 30 MHz

Result : PASSED

EUT : Immunoassay Analyzer Date: September 04, 2019

Operating Condition : Transmitting Mode

Distance : 3 m

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Any emissions were not observed from the EUT.									

Tested by: Yu-Seog Sim / Assistant Manager

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7.2.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 47 % R.H. Temperature: 24 ℃

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Type of Test : Low Power Transmitter Operation within the band 1.705-30.0 MHz.

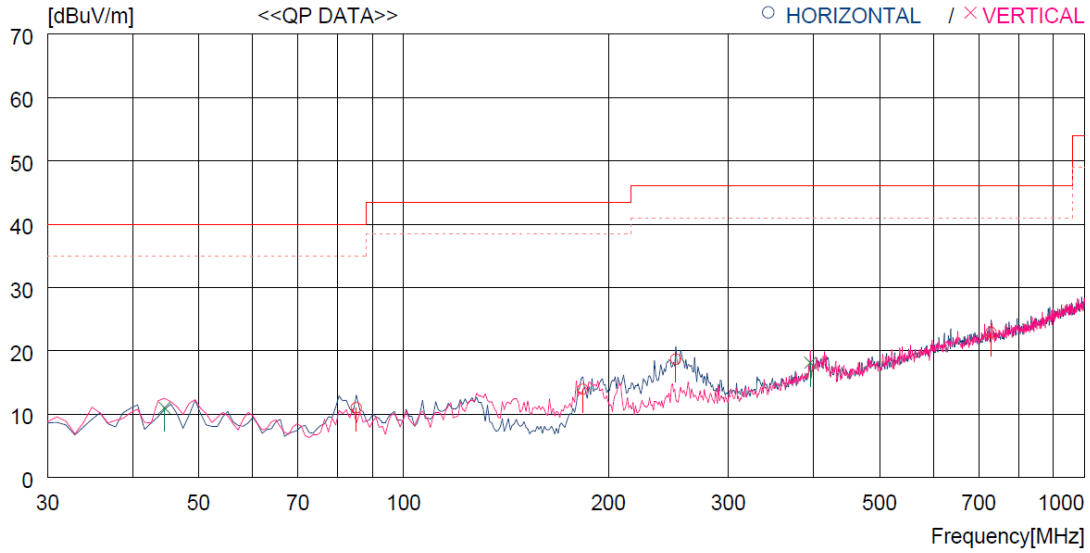
Frequency range : 30 MHz ~ 1 000 MHz

Result : PASSED

EUT : Immunoassay Analyzer Date: September 09, 2019

Operating Condition : Transmitting Mode

Distance : 3 m



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal ------										
1	85.290	31.9	9.5	2.7	33.1	11.0	40.0	29.0	300	359
2	183.260	33.5	10.1	3.4	33.1	13.9	43.5	29.6	200	74
3	251.160	35.1	12.7	3.9	33.0	18.7	46.0	27.3	100	359
4	729.364	29.1	20.4	6.7	33.3	22.9	46.0	23.1	200	148
----- Vertical ------										
5	44.550	27.8	14.5	1.8	33.1	11.0	40.0	29.0	100	279
6	395.690	30.6	15.8	4.9	33.2	18.1	46.0	27.9	100	106

Tested by: Yu-Seog Sim / Assistant Manager

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7.3 20 dB BANDWIDTH

7.3.1 Operating environment

Temperature : 24 ℃

Relative humidity : 47 % R.H.

7.3.2 Test set-up

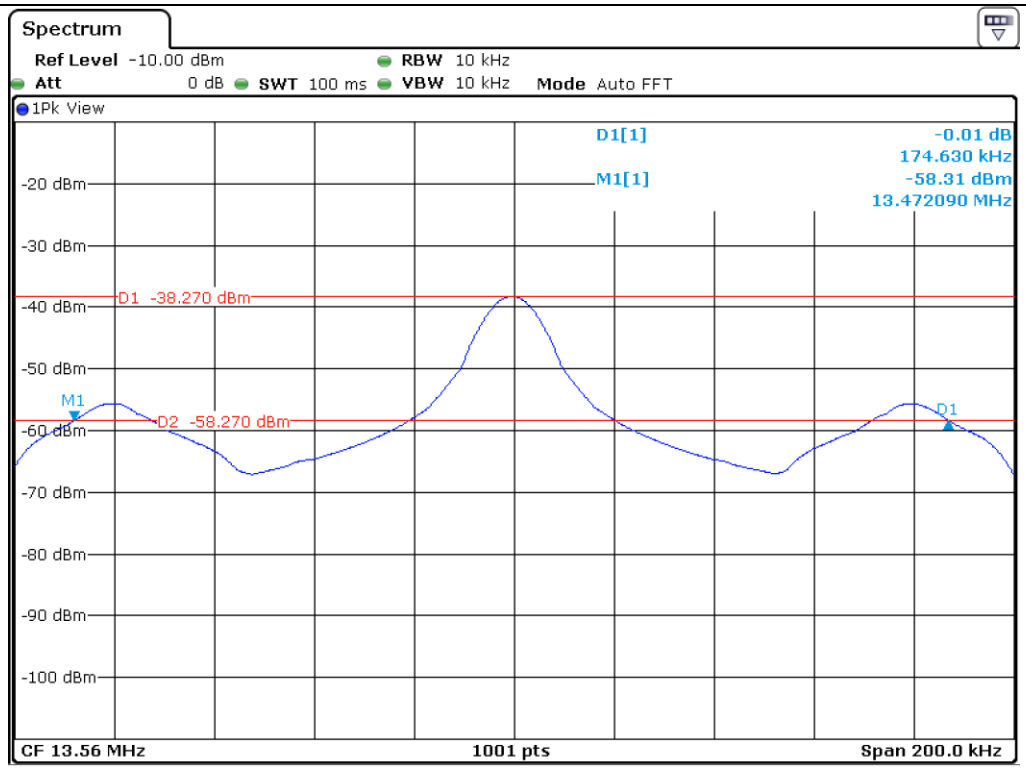
The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 10 kHz, and peak detection was used. The 20 dB bandwidth is defined as the total spectrum over which the power is higher than the peak power minus 20 dB.

7.3.3 Test data

-. Test Date : September 04, 2019

-. Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Operating Freq. (MHz)	Measured Value (kHz)	Assigned Operating Frequency Band (kHz)	Result
13.56	174.63	900	**PASS**



Tested by: Yu-Seog Sim / Assistant Manager

7.4 FREQUENCY STABILITY WITH TEMPERATURE VARIATION

7.4.1 Operating environment

Temperature : 24 ℃

Relative humidity : 47 % R.H.

7.4.2 Test set-up

Turn EUT off and set chamber temperature to -20 ℃ and then allow sufficient time (approximately 20 to 30 minutes after chamber reach the assigned temperature) for EUT to stabilize. Turn ON EUT and measure the EUT operating frequency and then turn off the EUT after the measurement. The temperature in the chamber was raised 10 ℃ step from -20 ℃ to +50℃. Repeat above method for frequency measurements every 10 ℃ step and then record all measured frequencies on each temperature step.

7.4.3 Test data

-. Test Date : September 04, 2019

-. Result : PASSED

Temperature (˚C)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Margin (Hz)	Limit (Hz)
-20	13 560 000	13 560 112	112	± 1 356.00
-10		13 560 097	97	
0		13 560 075	75	
10		13 560 068	68	
20		13 560 051	51	
30		13 560 048	48	
40		13 560 067	67	
50		13 560 075	75	

Tested by: Yu-Seog Sim / Assistant Manager

7.5 FREQUENCY STABILITY WITH VOLTAGE VARIATION

7.5.1 Operating environment

Temperature : 24 ℃

Relative humidity : 47 % R.H.

7.5.2 Test set-up

An external DC power supply was connected to the input of the EUT. The voltage of EUT set to 115 % of the nominal value and then was reduced to 85 % of nominal voltage. The output frequency was recorded at each step.

7.5.3 Test data

-. Test Date : September 04, 2019

-. Result : PASSED

Voltage (Vdc)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Margin (Hz)	Limit (Hz)
4.37(115 %)	13 560 000	13 560 056	56	± 1 356.00
3.80(100 %)		13 560 048	48	
3.23(85 %)		13 560 078	78	

Tested by: Yu-Seog Sim / Assistant Manager

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8. FIELD STRENGTH CALCULATION

Meter readings are compared to the specification limit correcting for antenna and cable losses.

+	Meter reading	(dBμV)
-	Amplifier Gain	(dB)
+	Cable Loss	(dB)
-	Antenna Factor	(dB/m)
=	Corrected Result	(dBμV/m)

Margin (dB)

	Specification Limit	(dBuV/m)
-	Corrected Result	(dBuV/m)
=	dB Relative to Spec	(± dB)

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9. CONDUCTED EMISSION TEST

9.1 Operating environment

Temperature	:	24 ℃
Relative humidity	:	45 % R.H

9.2 Test set-up

The EUT was placed on a wooden table, 0.8 m height above the floor. Power was fed to the EUT through a 50 Ω / 50 μH + 5 Ω Artificial Mains Network (AMN). The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient.

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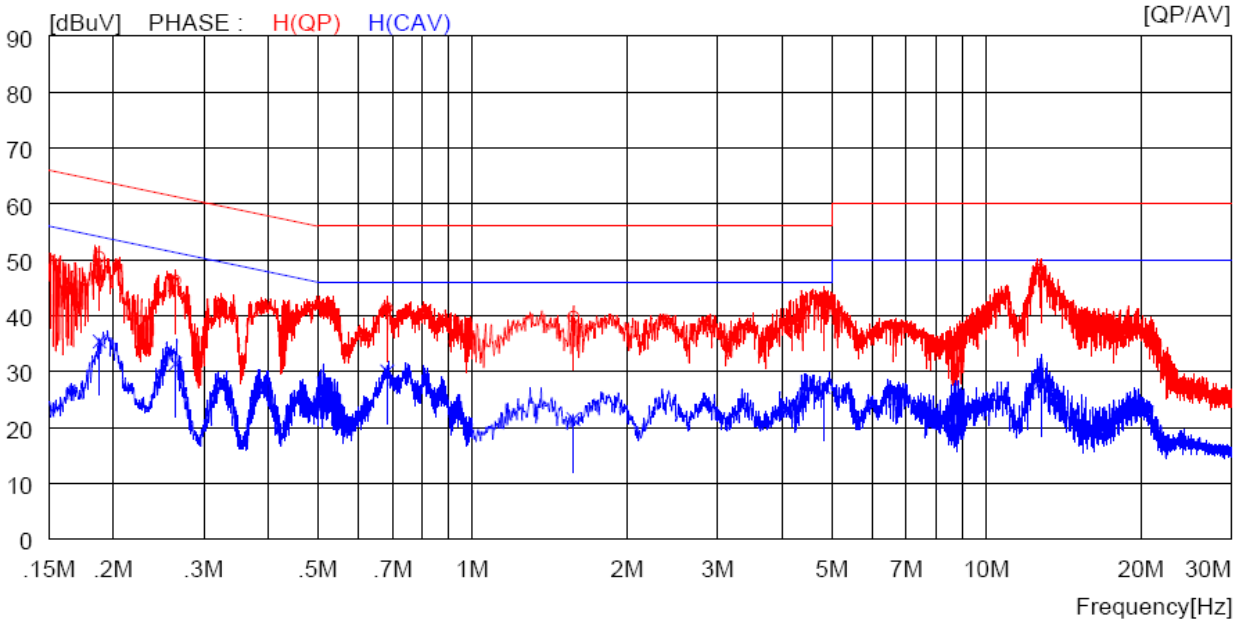
9.3 Test data

-. Test Date : September 03, 2019

-. Resolution bandwidth : 9 kHz

-. Frequency range : 0.15 MHz ~ 30 MHz

-. Tested Line : HOT LINE



NO	FREQ [MHz]	READING QP [dBuV]	READING AV [dBuV]	C.FACTOR [dB]	RESULT QP [dBuV]	RESULT AV [dBuV]	LIMIT QP [dBuV]	LIMIT AV [dBuV]	MARGIN QP [dBuV]	MARGIN AV [dBuV]	PHASE
1	0.18800	40.4	----	10.1	50.5	----	64.1	----	13.6	----	H(QP)
2	0.26400	36.2	----	10.1	46.3	----	61.3	----	15.0	----	H(QP)
3	0.68200	31.3	----	10.1	41.4	----	56.0	----	14.6	----	H(QP)
4	1.57200	29.7	----	10.1	39.8	----	56.0	----	16.2	----	H(QP)
5	4.83600	33.1	----	10.1	43.2	----	56.0	----	12.8	----	H(QP)
6	12.79000	37.9	----	10.3	48.2	----	60.0	----	11.8	----	H(QP)
7	0.18800	----	25.3	10.1	----	35.4	----	54.1	----	18.7	H(CAV)
8	0.26400	----	21.3	10.1	----	31.4	----	51.3	----	19.9	H(CAV)
9	0.68200	----	20.0	10.1	----	30.1	----	46.0	----	15.9	H(CAV)
10	1.57200	----	11.4	10.1	----	21.5	----	46.0	----	24.5	H(CAV)
11	4.83600	----	17.1	10.1	----	27.2	----	46.0	----	18.8	H(CAV)
12	12.79000	----	17.7	10.3	----	28.0	----	50.0	----	22.0	H(CAV)

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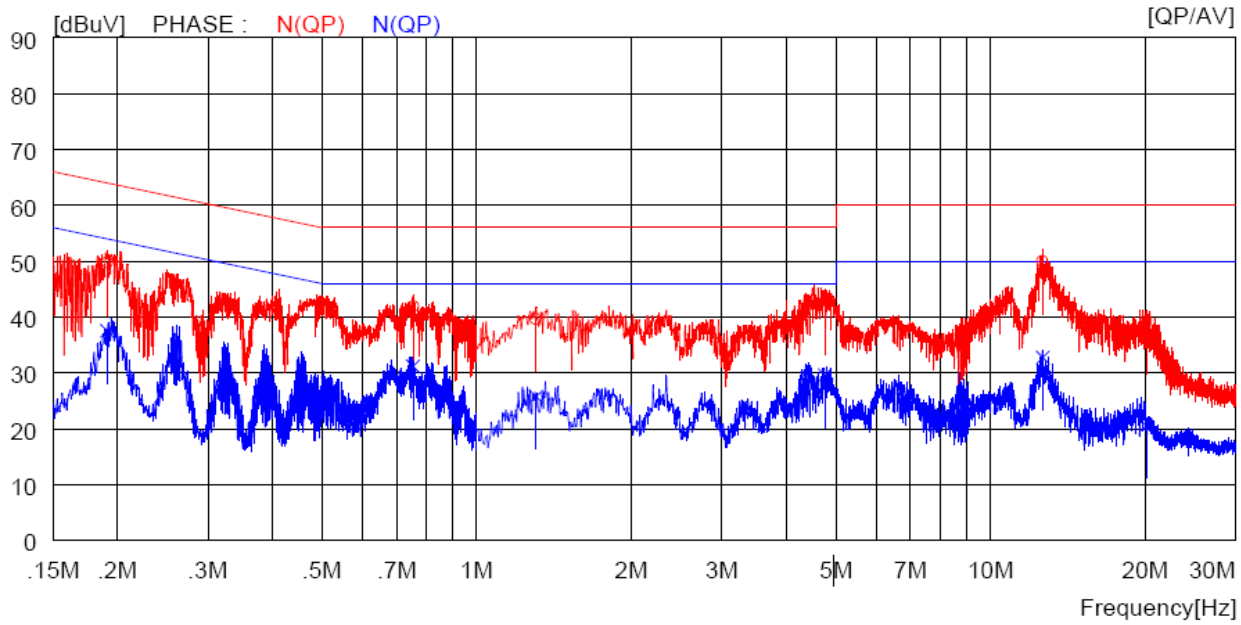
-. Tested Line : NEUTRAL LINE



NO	FREQ	READING QP [dBuV]	READING AV [dBuV]	C.FACTOR [dB]	RESULT QP [dBuV]	RESULT AV [dBuV]	LIMIT QP [dBuV]	LIMIT AV [dBuV]	MARGIN QP [dBuV]	MARGIN AV [dBuV]	PHASE
1	0.19100	39.7	----	10.1	49.8	----	64.0	----	14.2	----	N(QP)
2	0.75300	31.8	----	10.1	41.9	----	56.0	----	14.1	----	N(QP)
3	1.30400	29.6	----	10.1	39.7	----	56.0	----	16.3	----	N(QP)
4	4.76400	32.8	----	10.1	42.9	----	56.0	----	13.1	----	N(QP)
5	12.63000	39.7	----	10.3	50.0	----	60.0	----	10.0	----	N(QP)
6	20.09000	28.8	----	10.4	39.2	----	60.0	----	20.8	----	N(QP)
7	0.19100	----	27.5	10.1	----	37.6	----	54.0	----	16.4	N(CAV)
8	0.75300	----	21.1	10.1	----	31.2	----	46.0	----	14.8	N(CAV)
9	1.30400	----	15.7	10.1	----	25.8	----	46.0	----	20.2	N(CAV)
10	4.76400	----	19.5	10.1	----	29.6	----	46.0	----	16.4	N(CAV)
11	12.63000	----	22.5	10.3	----	32.8	----	50.0	----	17.2	N(CAV)
12	20.09000	----	10.2	10.4	----	20.6	----	50.0	----	29.4	N(CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

Tested by: Yu-Seog Sim / Assistant Manager

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10. LIST OF TEST EQUIPMENT

No.	EQUIPMENTS	MFR.	MODEL	SER. NO.	LAST CAL	DUE CAL	USE
1.	Test receiver	R/S	ESCI	101012	Oct. 22, 2018	One Year	□
2.		R/S	ESR	101470	Oct. 22, 2018	One Year	■
3.	Spectrum analyzer	R/S	FSV30	101200	Jul. 24, 2019	One Year	■
4.	Amplifier	Sonoma Instrument	310N	312544	Mar. 18, 2019	One Year	■
5.	Amplifier	Sonoma Instrument	310N	312545	Mar. 18, 2019	One Year	□
6.	BBV 9718 B	Schwarzbeck	Broadband Preamplifier	009	Mar. 18, 2019	One Year	■
7.	TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-255	Jun. 05, 2018	Two Year	■
8.	TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-419	Aug. 09, 2018	Two Year	□
9.	Controller	Innco System	CO3000	CO3000/904/ 37211215/L	N/A	N/A	■
10.	LISN	EMCO	3825/2	9109-1869	Mar 19, 2019	One Year	□
		Schwarzbeck	NSLK8126	8126-480	Oct. 22, 2018	One Year	□
		Schwarzbeck	NSLK8126	8128-479	Oct. 22, 2018	One Year	□
11.	Turn Table	Innco System	DT3000-3t	N/A	N/A	N/A	■
12.	Antenna Master	Innco System	MA-4000XPET	MA4000/509/ 37211215/L	N/A	N/A	■
13.	Antenna Master	Innco System	MA4000-EP	MA4000/332/ 27030611/L	N/A	N/A	□
14.	Loop Antenna	Schwarzbeck	FMZB 1513	1513-235	May. 13, 2018	Two Year	■
15.	Frequency Counter	HP	53152A	US39270295	Jul. 25, 2019	One Year	■
16.	Chamber	ESPEC	PSL-2KP	14009407	Feb. 22, 2019	One Year	■
17.	DC Power Supply	Protek	PWS-3003D	4020409	Jul. 24, 2019	One Year	□
18	Test Receiver	R/S	ESCI	101420	Mar. 28, 2019	One Year	■
19	AMN	EMCO	3825/2	9109-1867	Mar. 27, 2019	One Year	■
20	LISN	Schwarzbeck	NSLK8126	8126-480	Oct. 22, 2018	One Year	■
21	Transient Limiter	Hewlett Packard	11947A	3107A02762	Mar. 28, 2019	One Year	■

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