

ELECTROMAGNETIC EMISSION COMPLIANCE REPORT

Test Report No. : OT-219-RED-035

Reception No. : 2108003898

Applicant : LG Electronics USA, Inc.

Address : 111 Sylvan Ave, North Building, Englewood Cliffs, New Jersey, 07632, United States

Manufacturer : LG Electronics Inc.

Address : 222 LG-ro Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, Korea

Type of Equipment : Bluetooth Earbud

Model Names : TONE-FP3

Multiple Model Name : TONE-FP3W, TONE-TFP3, TONE-TFP3W, TONE-UFP3, TONE-UFP3W,
TONE-DFP3, TONE-DFP3W

Serial number : N/A

Total page of Report : 19 pages (including this page)

Date of Incoming : August 26, 2021

Test Period : August 30, 2021 ~ September 01, 2021

Date of Issuing : September 03, 2021

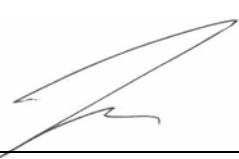
SUMMARY

The equipment complies with the requirement of


FCC CFR 47 PART 15 SUBPART B, Section 15.101 and IC ICES-003 Issue 7

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

Reviewed by:


Seung-Hyun, Park / Manager
EMC Testing Div.
ONETECH Corp.

Approved by:


Gea-Won, Lee / Managing Director
EMC Testing Div.
ONETECH Corp.

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Revision History

Rev. No.	Issued Report No.	Issued Date	Revisions	Section Affected
0	OT-219-RED-035	September 03, 2021	Initial Issue	All

1. VERIFICATION OF COMPLIANCE

-. Applicant : LG Electronics USA, Inc.
 -. Address : 111 Sylvan Ave, North Building, Englewood Cliffs, New Jersey, 07632, United States
 -. Manufacturer : LG Electronics Inc.
 -. Address : 222 LG-ro Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, Korea
 -. Factory : BLUECOM
 -. Address : C5-4, Area CN1, Trang Due Industrial Park, An Duong District, Haiphong City, Vietnam
 -. MODEL NAME : TONE-FP3
 -. SERIAL NUMBER : N/A
 -. BRAND/TRADE NAME : LG
 -. DATE : September 03, 2021

EQUIPMENT CLASS	Other Class B digital devices & peripherals
E.U.T. DESCRIPTION	Bluetooth Earbud
MEASUREMENT PROCEDURES	Original Grant
TYPE OF EQUIPMENT TESTED	ANSI C63.4: 2014 and ICES-003 ISSUE 7
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Supplier's Declaration of Conformity (SDoC)
STANDARDS	FCC PART 15 (Class B) ICES-003 ISSUE 7 Class B Apparatus
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	None
FINAL TEST WAS CONDUCTED ON	3 m, 10 m Semi anechoic chamber

ONETECH Corp. tested the above equipment in accordance with the requirements set forth in the above standard. The test results show that equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

2. TEST FACILITY

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025 by Radio Research Agency as accreditation body. The Onetech Corp. is accredited for measuring devices subject to Declaration of Conformity (DOC) under Parts 15 & 18 as a Conformity Assessment Body (CAB) with designation number KR0013.

These measurement tests were conducted at Onetech Corp.

The 10 m semi anechoic chamber and conducted measurement facilities are located at

- 1) 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea.
- 2) 12-5, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea.



3. PRODUCT INFORMATION

3.1 Description of EUT

The LG Electronics USA, Inc., Model TONE-FP3 (referred to as the EUT in this report) is a Bluetooth Earbud.

Product specification described herein was obtained from product data sheet or user's manual.

CHASSIS TYPE	Plastic
LIST OF EACH OSC. or CRY. FREQ. (FREQ. \geq 1 MHz)	20 MHz
RF FREQ.	2 402 MHz ~ 2 480 MHz
ELECTRICAL RATING	Earbud: DC 5 V, 110 mA Charging case : DC 5 V, 500 mA
NUMBER OF PCB LAYERS	-
EXTERNAL CONNECTOR	Earbud: Charging terminals Charging case : Charging terminals, Charge port(USB Type C)
Temperature Range	0 °C ~ 40 °C

3.2 Model Differences

-. The following lists consist of the added model and their differences.

Model Name	Differences	Tested
TONE-FP3	Basic Model (Color: Black).	<input checked="" type="checkbox"/>
TONE-FP3W	This model is different from the basic model in color and country of sale. (Color: White / Country of sale: Global)	<input type="checkbox"/>
TONE-TFP3	This model is different from the basic model in color and country of sale. (Color: Black / Country of sale: Korea)	<input type="checkbox"/>
TONE-TFP3W	This model is different from the basic model in color and country of sale. (Color: White / Country of sale: Korea)	<input type="checkbox"/>
TONE-UFP3	This model is different from the basic model in color and country of sale. (Color: Black / Country of sale: England)	<input type="checkbox"/>
TONE-UFP3W	This model is different from the basic model in color and country of sale. (Color: White / Country of sale: England)	<input type="checkbox"/>
TONE-DFP3	This model is different from the basic model in color and country of sale. (Color: Black / Country of sale: Germany)	<input type="checkbox"/>
TONE-DFP3W	This model is different from the basic model in color and country of sale. (Color: White / Country of sale: Germany)	<input type="checkbox"/>

Note: 1. Applicant consigns only basic model to test. Therefore, this test report just guarantees the units, which have been tested.

2. The Applicant/manufacture is responsible for the compliance of all variants.

3.3 Support Equipment

The model numbers for all the equipments that were used in the tested system is:

Description	Model	Manufacturer	Connected to
Bluetooth Earbud (EUT)	TONE-FP3	LG Electronics Inc.	Adapter
Adapter	EP-TA200 001	HAEM VINA Co., Ltd.	EUT

3.4 System Configuration

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
Bluetooth Earbud	LG Electronics Inc.	TONE-FP3	ZNFTONEFP3

3.5 Cable Description for the EUT

Cable	Shielded	Ferrite Bead	Metal Shell	Length (m)	Connected to
USB Type C	Y	N	N	0.5	Adapter

3.6 Equipment Modifications

-. None

4. DESCRIPTION OF TESTS

4.1 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4: 2014.

Radiated testing was performed at a distance of 3 m from EUT to the antenna.

4.2 Test Condition

The test conditions of the noted test mode(s) in this test report are;

1) Test Voltage / Frequency

- AC 120 V / 60 Hz

2) Test Mode(s)

Test Mode		Operating States
1	Charging	a) The USB Type C port on the EUT was connected to the adapter and then the EUT was charging operate.

4.3 Conducted Emission

The EUT was placed on a non-conductive 1.0 m × 1.5 m table, which is 0.8 m in height above the reference ground plane and 0.4 m away from the vertical conducting plane (over 2 m × 2 m) that is bonded to the reference ground plane.

The power of EUT is fed through a 50 Ω/ 50 μH + 5 Ω LISN and all support equipment is powered from another LISN.

Powers to the LISN are filtered by high-current high insertion loss power line filter.

Sufficient time for EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition.

The RF output of the LISN was connected to the EMI test receiver.

Exploratory measurements were conducted to identify the highest emission by operating the EUT in a range of typical modes of operation, cable positions, system configuration and arrangement.

Based on exploratory measurements, the final measurements were conducted at the worst test conditions.

Exploratory measurements were scanned using Peak mode of EMI Test receiver from 150 kHz to 30 MHz with 20 ms sweep time. The final measurements were measured with Quasi-Peak and CISPR Average mode.

The bandwidth of EMI Test Receiver was set to 9 kHz. Interface cables were connected to the available interface ports of the test unit. Excess cable lengths were bundled at center with 30 cm ~ 40 cm.

4.4 Radiated Emission

Exploratory Radiated measurements were conducted at the 3 m semi anechoic chamber in order to identify the highest emission by operating the EUT in a range of typical modes of operation, cable positions, system configuration and arrangement.

Based on exploratory measurements, the final measurements were conducted at the worst test conditions.

Final measurements were made at 10 m semi anechoic chamber that complies with CISPR 16/ANSI C63.4/ ICES-003.

Exploratory measurements were scanned using Peak mode of EMI Test receiver and final measurements were measured with Quasi-Peak mode (Below 1 GHz) and Peak & CISPR Average mode (Above 1 GHz).

The system was rotated 360°, and the antenna was varied in 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. FINAL RESULT OF MEASUREMENT

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

5.1 Conducted Emission Test

5.1.1 Operating Environment

Ambient temperature : 25.0 °C
Relative humidity : 56.6 % R.H.

5.1.2 Test Setup

The EUT and other support equipment were placed on a non-conductive table, 0.8 m height above the reference ground plane. The power of EUT was fed through a 50 Ω / 50 μ H + 5 Ω LISN. The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient.

5.1.3 Measurement uncertainty

Conducted emission, quasi-peak detection : ± 3.9 dB
Conducted emission, CISPR-average detection : ± 3.9 dB

Measurement uncertainty is calculated in accordance with CISPR 16-4-2. The measurement uncertainty is given with a confidence of 95 % with the coverage factor, $k = 2$.

5.1.4 Limit

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	CISPR Average
0.15 ~ 0.5	66 to 56*	56 to 46*
0.5 ~ 5	56	46
5 ~ 30	60	50

* Decreases with the logarithm of the frequency

5.1.5 Test Equipment used

Model Number	Manufacturer	Description	Serial Number	Last Cal. (Interval)
■ - ESCI	Rohde & Schwarz	Test Receiver	101420	Mar. 23, 2021 (1Y)
■ - LT32C/10	Afj Instruments	LISN	32032039322	Oct. 22, 2020 (1Y)
□ - 3825/2	EMCO	AMN	9109-1867	Mar. 22, 2021 (1Y)
■ - 11947A	Hewlett Packard	Transient Limiter	3107A02762	Mar. 22, 2021(1Y)

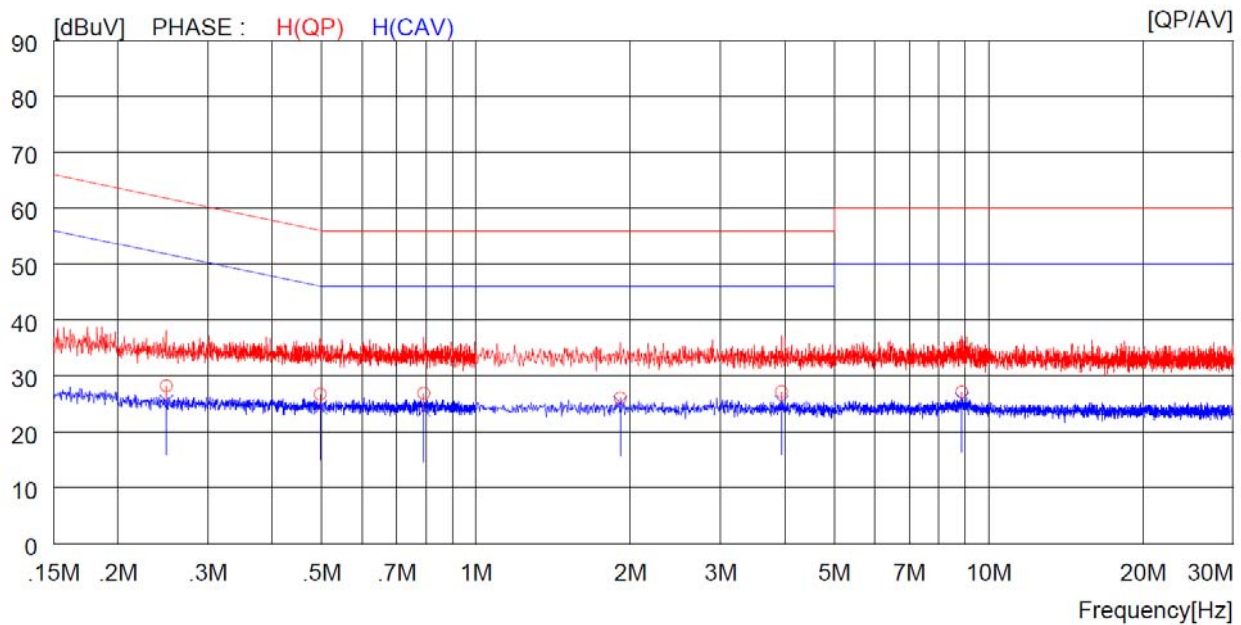
All test equipment used is calibrated on a regular basis.

5.1.6 Test Data

-. Test Result : Pass

Tested by: Jae-Yeon, Kim / Engineer

Test Mode 1 (Charging)			
Frequency range	: 0.15 MHz ~ 30 MHz	Test Date	: September 01, 2021
Resolution bandwidth	: 9 kHz	Tested Line	: HOT LINE

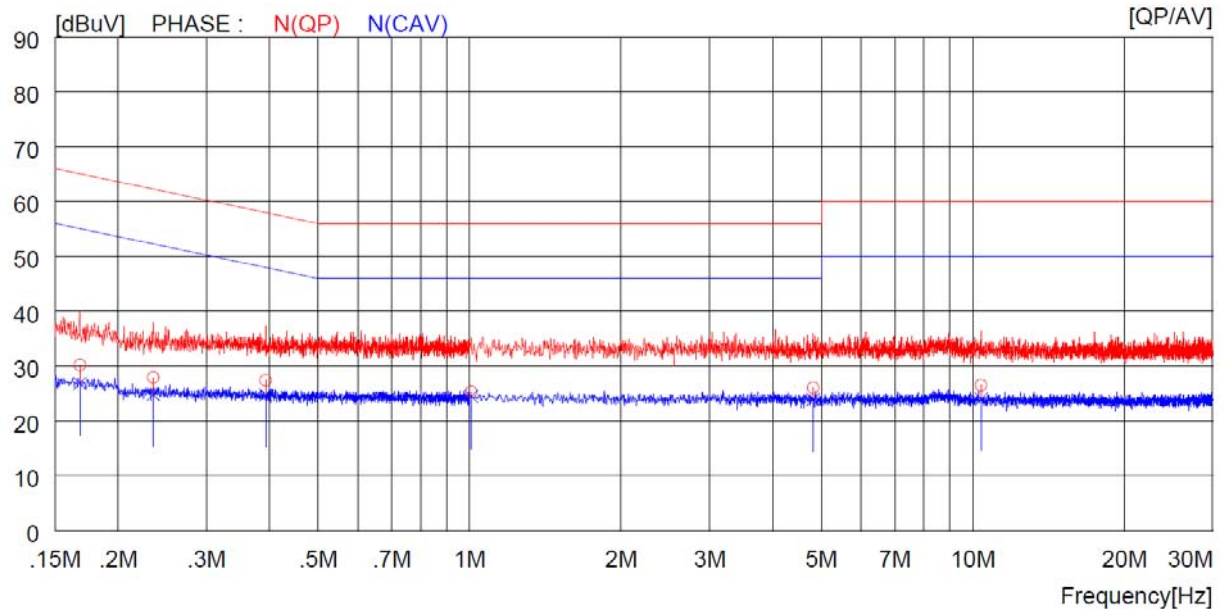


NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.24900	6.9	----	21.3	28.2	----	61.8	----	33.6	----	H (QP)
2	0.49700	5.4	----	21.3	26.7	----	56.0	----	29.3	----	H (QP)
3	0.79100	5.6	----	21.3	26.9	----	56.0	----	29.1	----	H (QP)
4	1.91200	4.6	----	21.4	26.0	----	56.0	----	30.0	----	H (QP)
5	3.94400	5.8	----	21.4	27.2	----	56.0	----	28.8	----	H (QP)
6	8.86500	5.7	----	21.4	27.1	----	60.0	----	32.9	----	H (QP)
7	0.24900	----	4.1	21.3	----	25.4	----	51.8	----	26.4	H (CAV)
8	0.49700	----	3.1	21.3	----	24.4	----	46.0	----	21.6	H (CAV)
9	0.79100	----	2.7	21.3	----	24.0	----	46.0	----	22.0	H (CAV)
10	1.91200	----	3.8	21.4	----	25.2	----	46.0	----	20.8	H (CAV)
11	3.94400	----	3.9	21.4	----	25.3	----	46.0	----	20.7	H (CAV)
12	8.86500	----	4.4	21.4	----	25.8	----	50.0	----	24.2	H (CAV)

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

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

Test Mode 1 (Charging)			
Frequency range	: 0.15 MHz ~ 30 MHz	Test Date	: September 01, 2021
Resolution bandwidth	: 9 kHz	Tested Line	: NEUTRAL LINE



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.16800	8.9	----	21.3	30.2	----	65.1	----	34.9	----	N (QP)
2	0.23500	6.6	----	21.3	27.9	----	62.3	----	34.4	----	N (QP)
3	0.39300	6.1	----	21.3	27.4	----	58.0	----	30.6	----	N (QP)
4	1.00800	3.9	----	21.4	25.3	----	56.0	----	30.7	----	N (QP)
5	4.81600	4.6	----	21.4	26.0	----	56.0	----	30.0	----	N (QP)
6	10.39000	5.1	----	21.4	26.5	----	60.0	----	33.5	----	N (QP)
7	0.16800	----	5.5	21.3	----	26.8	----	55.1	----	28.3	N (CAV)
8	0.23500	----	3.5	21.3	----	24.8	----	52.3	----	27.5	N (CAV)
9	0.39300	----	3.4	21.3	----	24.7	----	48.0	----	23.3	N (CAV)
10	1.00800	----	3.1	21.4	----	24.5	----	46.0	----	21.5	N (CAV)
11	4.81600	----	2.5	21.4	----	23.9	----	46.0	----	22.1	N (CAV)
12	10.39000	----	2.6	21.4	----	24.0	----	50.0	----	26.0	N (CAV)

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

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

5.2 Radiated Emission Test

5.2.1 Operating Environment

Ambient temperature : (21.6 ~ 24.0) °C
Relative humidity : (51.8 ~ 52.3) % R.H.

5.2.2 Test Setup

The radiated emissions measurements were on the 3 m, in 3 m semi anechoic chamber and 10 m semi anechoic chamber. The EUT and all local support equipments were placed on a non-conductive turntable approximately 0.8 m above the ground plane.

The frequency spectrum from 30 MHz to 18 000 MHz was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in 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.

5.2.3 Measurement uncertainty

Radiated emission electric field intensity, 30 MHz ~ 1 000 MHz : ± 4.4 dB
Radiated emission electric field intensity, 1 GHz ~ 18 GHz : ± 6.0 dB

Measurement uncertainty is calculated in accordance with CISPR 16-4-2. The measurement uncertainty is given with a confidence of 95 % with the coverage factor, $k = 2$.

5.2.4 Limit

-. FCC Part 15 Subpart B

Frequency of Emission (MHz)	Resolution bandwidth	Field strength @ 3 m (dBμV/m)	
30 ~ 88 88 ~ 216 216 ~ 230 230 ~ 960 960 ~ 1 000	120 kHz	Quasi-peak	
		40.0	
		43.5	
		46.0	
		46.0	
		54.0	
> 1 000	1 MHz	Peak Limit	CISPR Average Limit
		74.0	54.0

-. ICES-003

Frequency of Emission (MHz)	Resolution bandwidth	Field strength @ 3 m (dB μ V/m)	Field strength @ 10 m (dB μ V/m)
30 ~ 88 88 ~ 216 216 ~ 230 230 ~ 960 960 ~ 1 000	120 kHz	Quasi-peak	Quasi-peak
		40.0	30.0
		43.5	33.1
		46.0	35.6
		47.0	37.0
		54.0	43.5
Frequency of Emission (MHz)	Resolution bandwidth	Field strength @ 3 m (dB μ V/m)	
> 1 000	1 MHz	Peak Limit	CISPR Average Limit
		74.0	54.0

5.2.5 Test Equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal. (Interval)
■ -	ESW	Rohde & Schwarz	Test Receiver	101851	Mar. 23, 2021 (1Y)
■ -	ESR	Rohde & Schwarz	Test Receiver	102190	Oct. 16, 2020 (1Y)
■ -	HLP-2008	TDK RF Solutions	Hybrid Antenna	131316	Feb. 27, 2020 (2Y)
■ -	3115	ETS-LINDGREN	Horn Antenna	34823	Aug. 18, 2021 (1Y)
■ -	310N	Sonoma Instrument	Amplifier	392756	Oct. 16, 2020 (1Y)
■ -	PAM-118A	Com-Power	Amplifier	18040081	Oct. 12, 2020 (1Y)
■ -	CO3000	Innco Systems GmbH	Controller	N/A	N/A
■ -	CO3000	Innco Systems GmbH	Controller	N/A	N/A
■ -	DT2000-2t	Innco Systems GmbH	Turn Table	N/A	N/A
■ -	DT5000	Innco Systems GmbH	Turn Table	N/A	N/A
■ -	MA4640-XPET	Innco Systems GmbH	Antenna Master	N/A	N/A
■ -	MA4640-XPET	Innco Systems GmbH	Antenna Master	N/A	N/A

All test equipment used is calibrated on a regular basis.

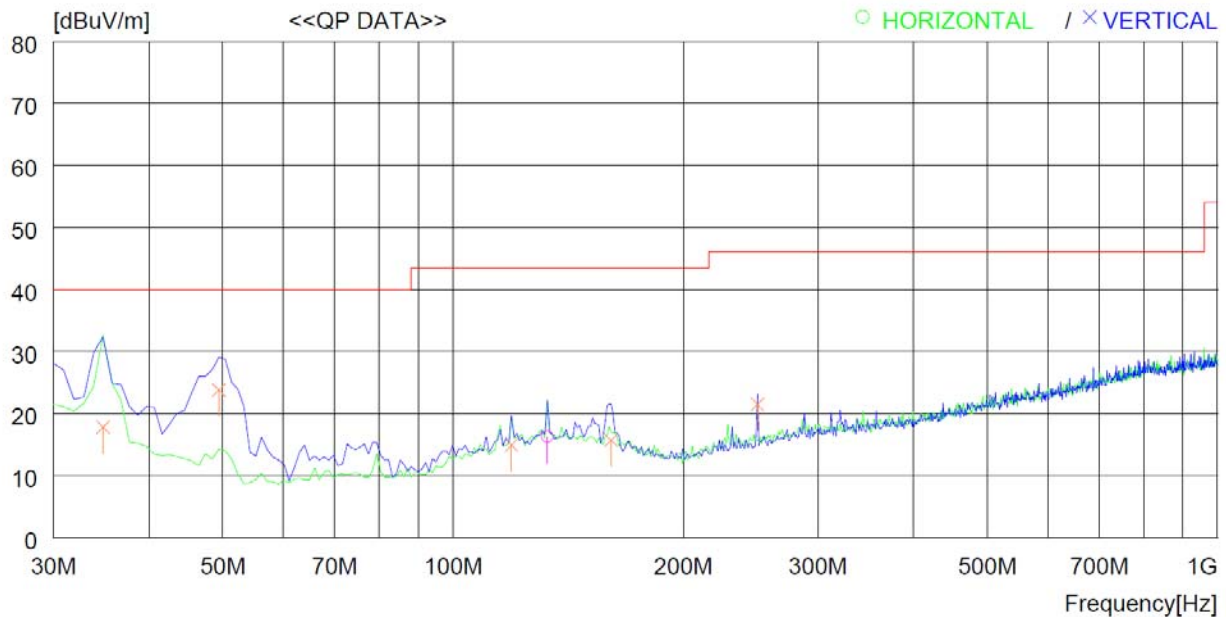
5.2.6 Test Data

-. Test Result : Pass

김재연

Tested by: Jae-Yeon, Kim / Engineer

Test Mode 1 (Charging)			
Frequency range	: 30 MHz ~ 1 000 MHz	Applied Standards	: FCC Part 15 Subpart B
Resolution bandwidth	: 120 kHz	Test Date	: August 31, 2021
Detector Mode	: Quasi-Peak	Measurement distance	: 3 m



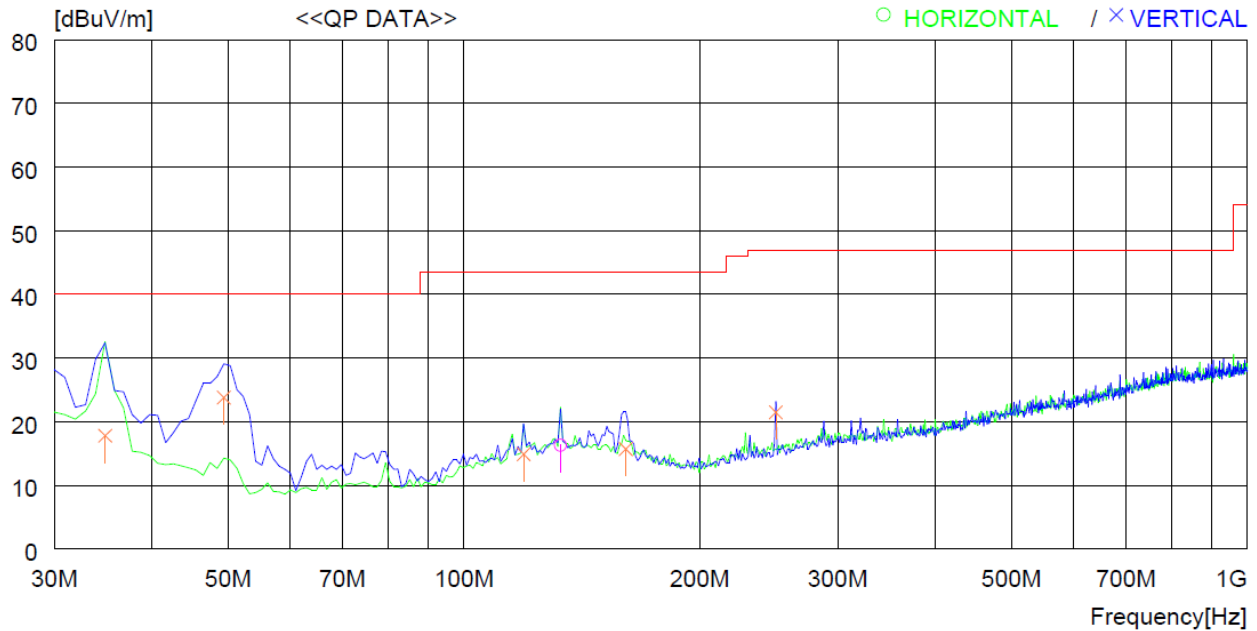
No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	132.820	27.0	19.2	2.1	32.0	16.3	43.5	27.2	200	84
----- Vertical -----										
2	34.850	29.4	19.2	1.2	32.0	17.8	40.0	22.2	100	359
3	49.400	41.1	13.4	1.4	32.1	23.8	40.0	16.2	100	359
4	119.240	26.4	18.5	2.0	32.0	14.9	43.5	28.6	300	0
5	160.950	27.7	17.8	2.2	32.0	15.7	43.5	27.8	100	112
6	250.190	32.9	17.8	2.8	32.0	21.5	46.0	24.5	100	138

Remark: Margin (dB) = Limit – Result

Result = Reading Quasi-Peak + Antenna Factor + Loss – Gain

Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

Test Mode 1 (Charging)			
Frequency range	: 30 MHz ~ 1 000 MHz	Applied Standards	: ICES-003 Issue 7
Resolution bandwidth	: 120 kHz	Test Date	: August 31, 2021
Detector Mode	: Quasi-Peak	Measurement distance	: 3 m



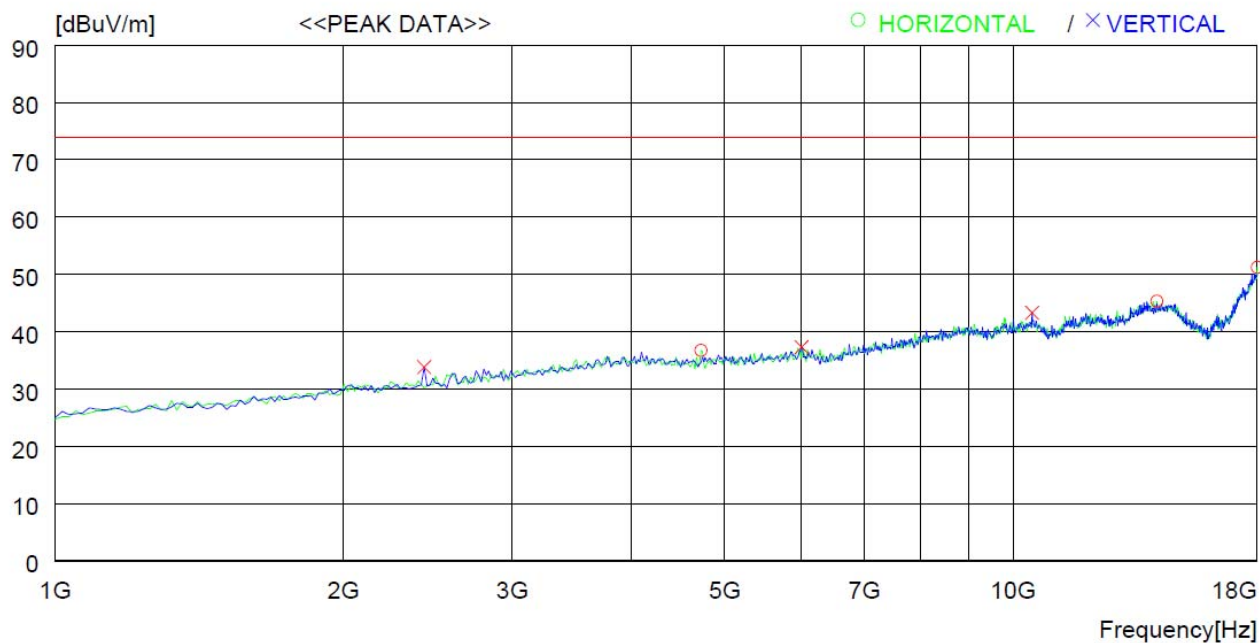
No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	132.820	27.0	19.2	2.1	32.0	16.3	43.5	27.2	200	84
----- Vertical -----										
2	34.850	29.4	19.2	1.2	32.0	17.8	40.0	22.2	100	359
3	49.400	41.1	13.4	1.4	32.1	23.8	40.0	16.2	100	359
4	119.240	26.4	18.5	2.0	32.0	14.9	43.5	28.6	300	0
5	160.950	27.7	17.8	2.2	32.0	15.7	43.5	27.8	100	112
6	250.190	32.9	17.8	2.8	32.0	21.5	47.0	25.5	100	138

Remark: Margin (dB) = Limit – Result

Result = Reading Quasi-Peak + Antenna Factor + Loss – Gain

Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

Test Mode 1 (Charging)			
Frequency range	: 1 GHz ~ 18 GHz	Test Date	: August 30, 2021
Resolution bandwidth	: 1 MHz	Measurement distance	: 3 m
Detector Mode	: Peak		



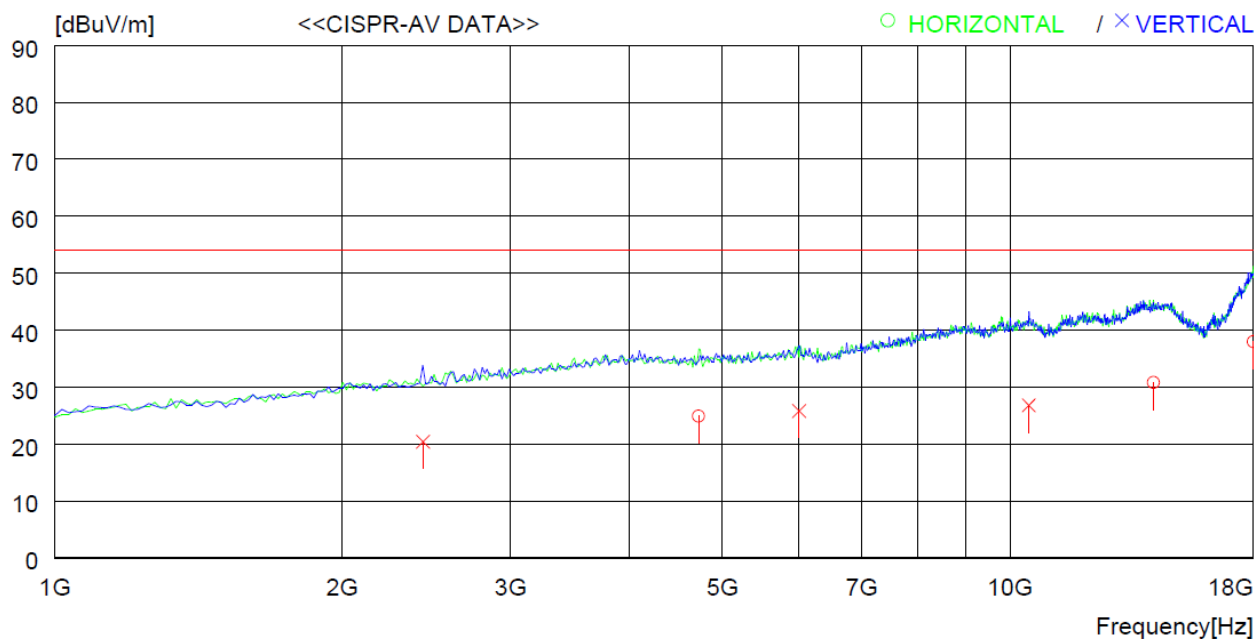
No.	FREQ [MHz]	READING [dBuV]	ANT PEAK FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	4723.000	45.7	32.6	4.7	46.3	36.7	74.0	37.3	100	0
2	14141.000	41.5	41.7	8.6	46.5	45.3	74.0	28.7	100	201
3	18000.000	40.0	47.4	9.7	45.9	51.2	74.0	22.8	100	201
----- Vertical -----										
4	2428.000	48.0	28.0	3.3	45.5	33.8	74.0	40.2	100	359
5	6015.000	44.0	34.0	5.4	46.1	37.3	74.0	36.7	100	359
6	10469.000	44.5	37.8	7.2	46.2	43.3	74.0	30.7	100	347

Remark: Margin (dB) = Limit – Result

Result = Reading Peak + Antenna Factor + Loss – Gain

Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

Test Mode 1 (Charging)			
Frequency range	: 1 GHz ~ 18 GHz	Test Date	: August 30, 2021
Resolution bandwidth	: 1 MHz	Measurement distance	: 3 m
Detector Mode	: CISPR-Average		



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	CAV	FACTOR							
		[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	4721.098	33.9	32.6	4.7	46.3	24.9	54.0	29.1	100	0
2	14141.410	27.0	41.7	8.6	46.5	30.8	54.0	23.2	100	201
3	17980.100	26.9	47.3	9.7	45.9	38.0	54.0	16.0	100	201
----- Vertical -----										
4	2429.279	34.6	28.0	3.3	45.5	20.4	54.0	33.6	100	359
5	6016.495	32.5	34.0	5.4	46.1	25.8	54.0	28.2	100	359
6	10468.090	28.0	37.8	7.2	46.2	26.8	54.0	27.2	100	347

Remark: Margin (dB) = Limit – Result

Result = Reading CISPR-Average + Antenna Factor + Loss – Gain

Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

6. SAMPLE CALCULATIONS

$$\text{dB}\mu\text{V} = 20 \text{ Log}_{10}(\mu\text{V})$$

$$\text{Margin} = \text{Limit} - \text{Result}$$

-. Example 1: 3.94400 MHz

Class B Limit	= 46.0 dB μ V (CISPR-Average)
Reading	= 3.9 dB μ V
Correction Factor	= Cable Loss + Pulse Limiter
	= 21.4 dB
Total	= 25.3 dB μ V
Margin	= 46.0 dB μ V – 25.3 dB μ V
	= 20.7 dB

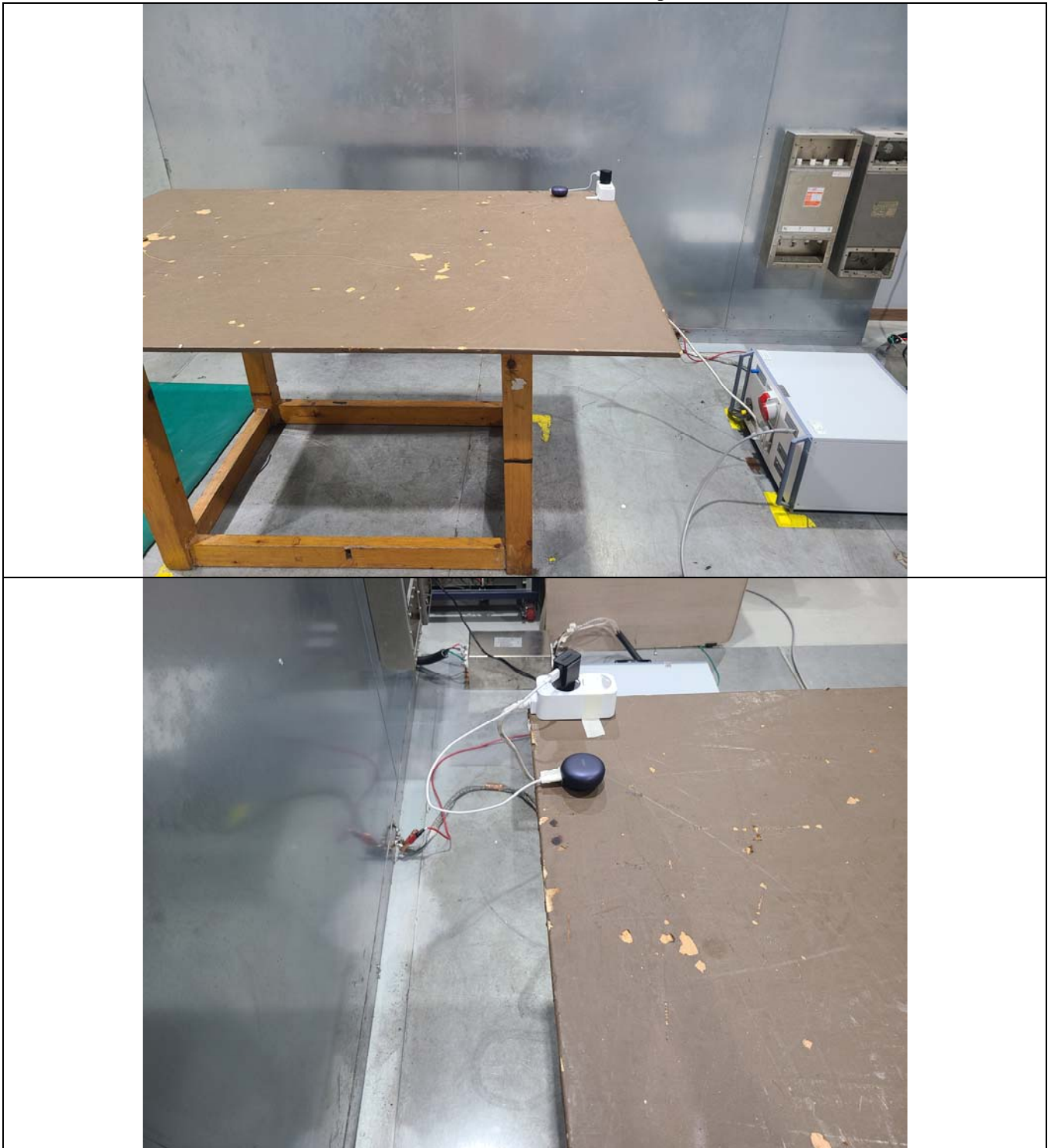
-. Example 2: 17980.100 MHz

Class B Limit	= 54.0 dB μ V/m (CISPR-Average)
Reading	= 26.9 dB μ V
Correction Factor	= Antenna Factor (47.3 dB/m) + Cable Loss (9.7 dB) - Amp. Gain (45.9 dB)
	= 11.1 dB
Total	= 38.0 dB μ V/m
Margin	= 54.0 dB μ V/m – 38.0 dB μ V/m
	= 16.0 dB

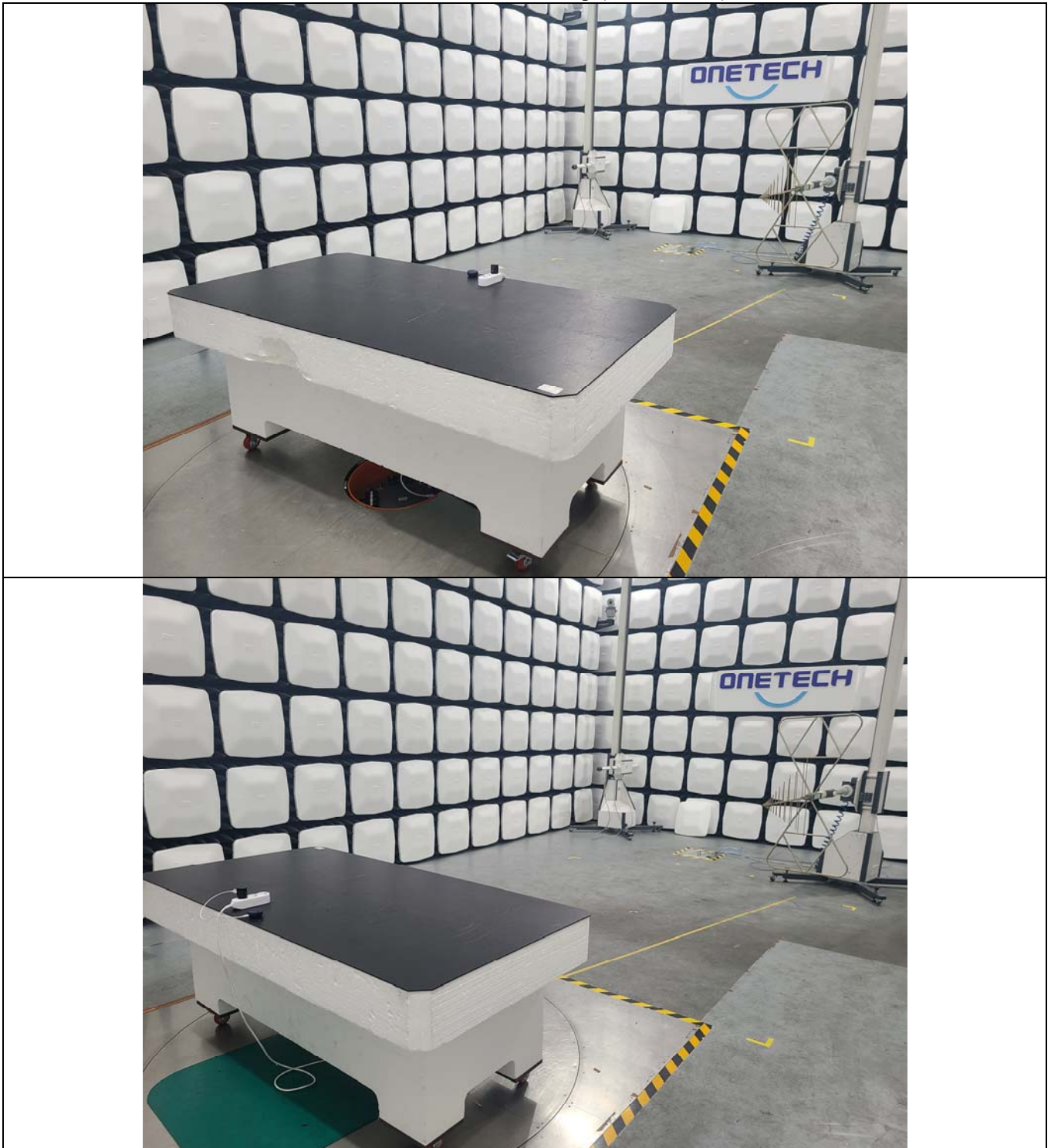
APPENDIX A

[TEST SET UP PHOTOGRAPHS]

Conducted Emission Test Set Up



Radiated Emission Test Set Up (Below 1 GHz)



Radiated Emission Test Set Up (Above 1 GHz)

