FCC 47 CFR PART 15 SUBPART B

(ICES-003) TEST REPORT

Test Report No.	**: OT-238-RED-013**
Reception No.	**: 2307002349**
Applicant	**: LG Electronics USA, Inc.**
Address	**: 111 Sylvan Avenue, North Building, Englewood Cliffs, New Jersey, 07632, United States**
Manufacturer	**: LG Electronics Inc.**
Address	**: 84, Wanam-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, Republic of Korea**
Use of Report	**: FCC Supplier's Declaration of Conformity**
Type of Equipment	**: Wired Remote Controller**
Model Name	**: PREMTA201**
Multiple Model Name	**: N/A**
FCC ID.	**: BEJ-PREMTA201**
Serial number	**: N/A**
Total page of Report	**: 20 pages (including this page)**
Date of Incoming	**: July 31, 2023**
Test Period	**: August 03, 2023**
Date of Issuing	**: August 08, 2023**

SUMMARY

The equipment complies with the requirement of
ANSI C63.4:2014, ANSI C63.4a: 2017 / FCC Part 15 Subpart B, Section 15.101.
ICES-003 Issue 7 / CAN/CSA-CISPR 32:17 / BETS-7 Issue3
This test report contains only the results 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.
This report is not correlated with the "KS Q ISO/IEC 17025 and KOLAS accreditation" of Korean Laboratory Accreditation Scheme.

Reviewed by: Sun-Teak, Oh / Manager
EMC Testing Div.
ONETECH Corp.

Approved by: Seung-Hyun, Park / Senior Manager
EMC Testing Div.
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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APPENDIX A – TEST SET-UP PHOTOGRAPHS

APPENDIX B – PHOTOGRAPHS OF EUT

APPENDIX C – DECLARATION OF CONFORMITY

APPENDIX D – LABELLING REQUIREMENTS / INFORMATION TO THE USER IN USER'S MANUAL

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

Rev. No.	Issued Report No.	Issued Date	Revisions	Section Affected
0	OT-238-RED-013	August 08, 2023	Initial Issue	All

* Please contact us [(TEL : +82-31-799-9500 (Ext.0)] for verification of this test report.

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1. VERIFICATION OF COMPLIANCE

1.1 Applicant

-. Applicant : LG Electronics USA, Inc.

-. Address : 111 Sylvan Avenue, North Building, Englewood Cliffs, New Jersey, 07632, United States

1.2 Manufacturer

-. Manufacturer : LG Electronics Inc.

-. Address : 84, Wanam-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, Republic of Korea

1.3 Factory

-. Factory : LG Electronics Inc.

-. Address : 84, Wanam-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, Republic of Korea

EQUIPMENT CLASS	CLASS B Digital devices & peripherals
E.U.T. DESCRIPTION	Wired Remote Controller
MEASUREMENT PROCEDURES	ANSI C63.4:2014, ANSI C63.4a: 2017
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Supplier's Declaration of Conformity (SDoC)
STANDARDS	FCC Part 15, Section 15.101 (Class B) Canadian Standard ICES-003 Issue 7
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	None
FINAL TEST WAS CONDUCTED ON	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.

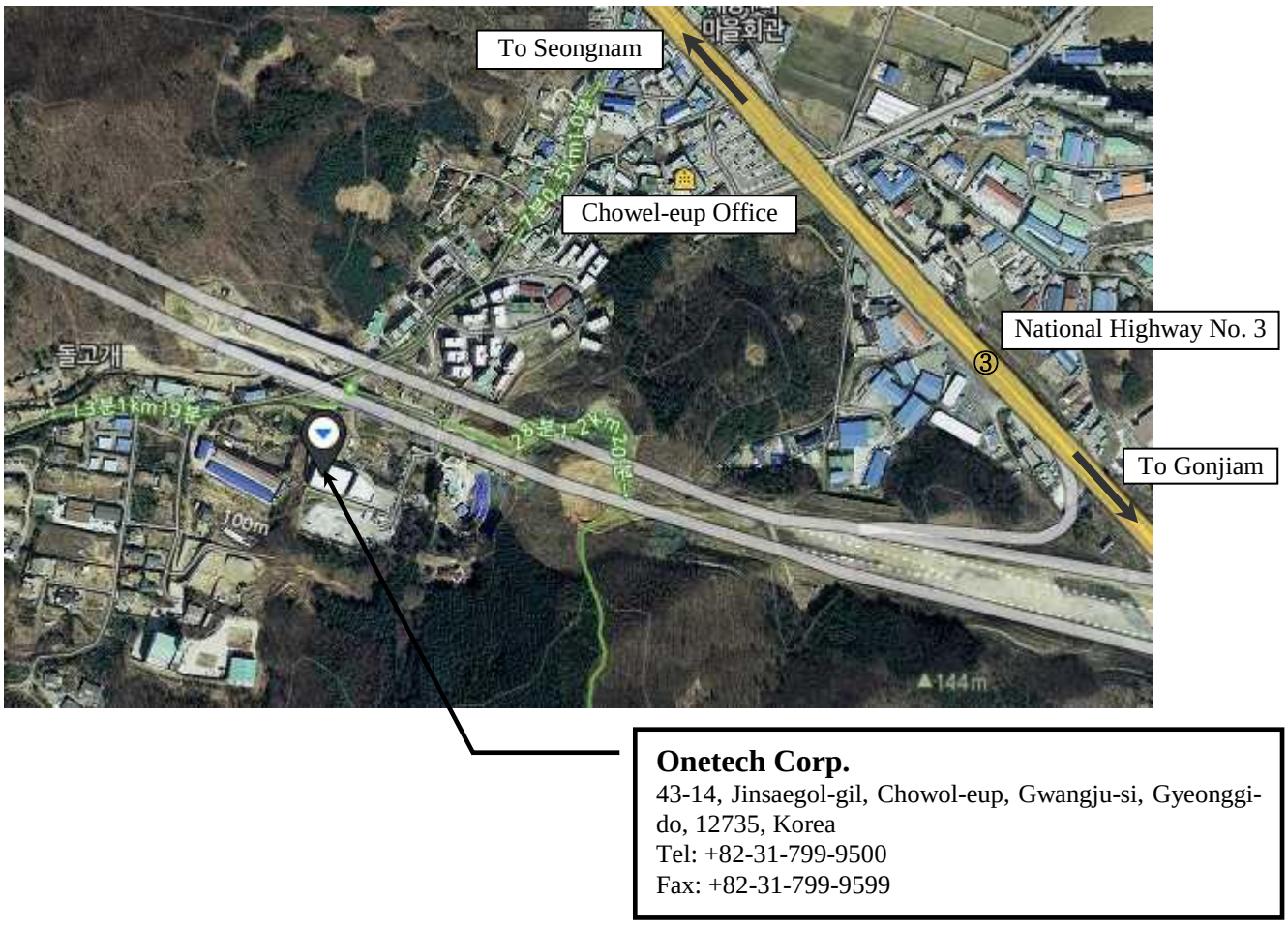
2. TEST FACILITY

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.



Onetech Corp.
43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea
Tel: +82-31-799-9500
Fax: +82-31-799-9599

3. PRODUCT INFORMATION

3.1 Description of EUT

The LG Electronics USA, Inc., Model PREMTA201 (referred to as the EUT in this report) is an Wired Remote Controller. Product specification described herein was obtained from product data sheet or user's manual.

CHASSIS TYPE	Metal & Plastic
LIST OF EACH OSC. OR CRY. FREQ. (FREQ. >= 1 MHz)	24 MHz (Wi-Fi Module Model: LBEE5KL1DX-623)
RF Frequency	Wi-Fi : 2 412 - 2 472 MHz
NUMBER OF PCB LAYERS	-
P. C. Board name	-
POWER REQUIREMENT	DC 12 V
EXTERNAL CONNECTOR	3 Pin (GND-SIG-12 V)

3.2 Model Differences

-. The following lists consist of the added model and their differences.: None

3.3 Support Equipment

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

Description	Model	Manufacturer	Connected to
Wired Remote Controller (EUT)	PREMTA201	LG Electronics Inc.	C-box
Smart phone	SM-N976N	Samsung	-
C-box	PRCKA1.ENCXLEU	LG Electronics Inc.	EUT
Wi-Fi Module [1)]	LBEE5KL1DX-623	LG Electronics Inc.	-
Wireless Router	A2003NS-MU	ipTIME	Wireless Router Adapter
Wireless Router Adapter	DCP007B122000K	ZIONCOM (VIETNAM) Co.,LTD	Wireless Router

1) Installed inside of Wired Remote Controller.

3.4 System Configuration

DEVICE TYPE	MODEL/PART NUMBER	MANUFACTURER
Wired Remote Controller	PREMTA201	LG Electronics Inc.

3.5 Cable Description for the EUT

Cable	Shielded	Ferrite Bead	Metal Shell	Length (m)	Connected to
3 Pin (GND-SIG-12 V)	N	N	N	3.0	C-box

3.6 Equipment Modifications

-. None

4. TEST SUMMARY

4.1 Test standards and result

Test Items	Applied Standards	Results
Conducted Disturbance	ANSI C63.4:2014 ANSI C63.4a: 2017 CAN/CSA-CISPR 32:17	C
Radiated Disturbance	ANSI C63.4:2014 ANSI C63.4a: 2017 CAN/CSA-CISPR 32:17	C
C=Comply N/C=Not Comply N/T=Not Tested N/A=Not Applicable		

4.2 Test Condition

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

-. Test Voltage / Frequency: AC 220 V / 60 Hz

-. Test Mode(s)

No.	Mode	Description
1	Normal operating mode	a) This EUT can be wirelessly connected to the smartphone application through the Wi-Fi module, and the operations of the remote control are checked by the display.

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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 Disturbance

5.1.1 Operating Environment

Ambient temperature : 23.4 °C
Relative humidity : 51.2 % 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 μH + 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 : 2.1 dB

Conducted emission, CISPR-average detection : 2.1 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 (dBμV)	
	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. 06, 2023 (1Y)
■ -	LT32C/10	Afj Instruments	LISN	32032039322	Mar. 07, 2023 (1Y)
■ -	11947A	Hewlett Packard	Transient Limiter	3107A02762	Mar. 07, 2023 (1Y)

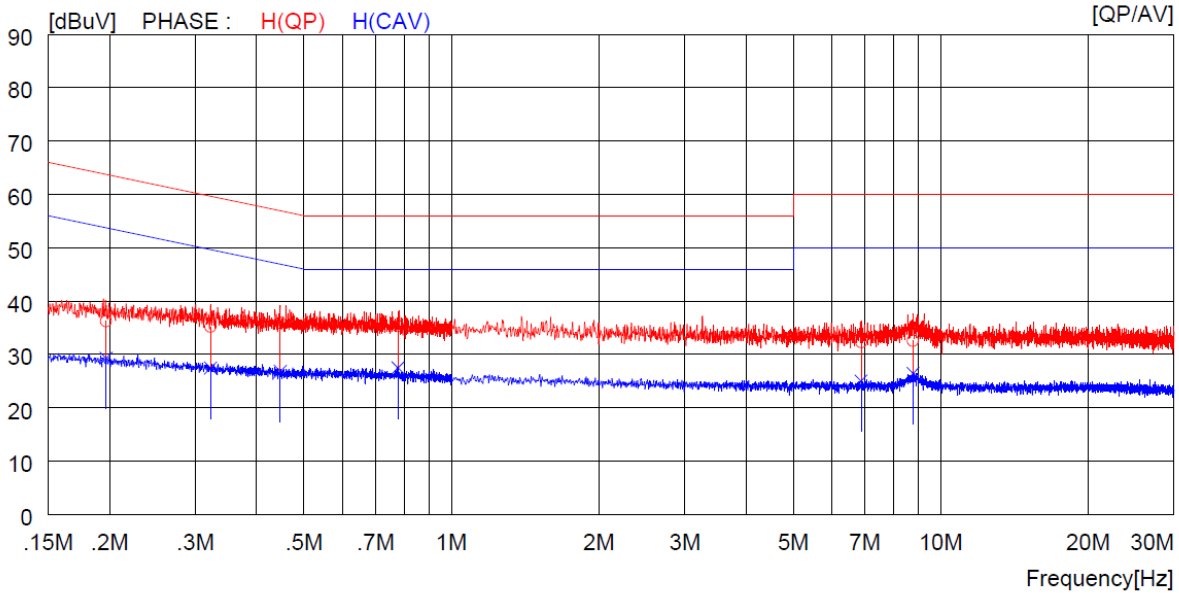
All test equipment used is calibrated on a regular basis.

5.1.6 Test Data

-. Test Result : Pass

Tested by: Young-Jae, Kim / Project Engineer

Operating Mode 1			
Frequency range	: 0.15 MHz ~ 30 MHz	Test Date	: August 03, 2023
Resolution bandwidth	: 9 kHz	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	0.19700	14.4	----	21.8	36.2	----	63.7	----	27.5	----	H(QP)
2	0.32200	13.5	----	21.7	35.2	----	59.7	----	24.5	----	H(QP)
3	0.44700	14.2	----	21.7	35.9	----	56.9	----	21.0	----	H(QP)
4	0.77800	13.6	----	21.7	35.3	----	56.0	----	20.7	----	H(QP)
5	6.88000	10.7	----	21.6	32.3	----	60.0	----	27.7	----	H(QP)
6	8.78000	11.0	----	21.6	32.6	----	60.0	----	27.4	----	H(QP)
7	0.19700	----	7.5	21.8	----	29.3	----	53.7	----	24.4	H(CAV)
8	0.32200	----	5.7	21.7	----	27.4	----	49.7	----	22.3	H(CAV)
9	0.44700	----	5.1	21.7	----	26.8	----	46.9	----	20.1	H(CAV)
10	0.77800	----	5.8	21.7	----	27.5	----	46.0	----	18.5	H(CAV)
11	6.88000	----	3.4	21.6	----	25.0	----	50.0	----	25.0	H(CAV)
12	8.78000	----	4.8	21.6	----	26.4	----	50.0	----	23.6	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

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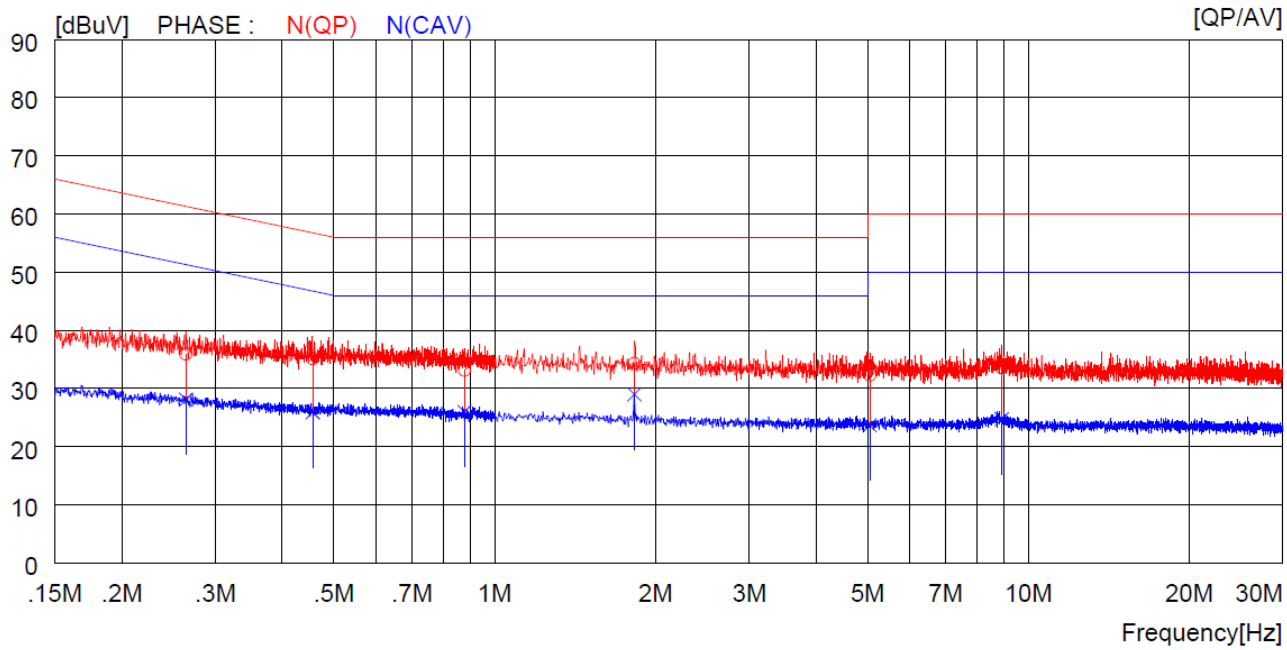
Operating Mode 1			
Frequency range	: 0.15 MHz ~ 30 MHz	Test Date	: August 03, 2023
Resolution bandwidth	: 9 kHz	Tested Line	: NEUTRAL LINE



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	0.26400	14.2	----	21.7	35.9	----	61.3	----	25.4	----	N(QP)
2	0.45600	13.4	----	21.7	35.1	----	56.8	----	21.7	----	N(QP)
3	0.87800	11.4	----	21.7	33.1	----	56.0	----	22.9	----	N(QP)
4	1.82800	12.6	----	21.7	34.3	----	56.0	----	21.7	----	N(QP)
5	5.04500	10.6	----	21.7	32.3	----	60.0	----	27.7	----	N(QP)
6	8.91000	12.0	----	21.6	33.6	----	60.0	----	26.4	----	N(QP)
7	0.26400	----	6.4	21.7	----	28.1	----	51.3	----	23.2	N(CAV)
8	0.45600	----	4.2	21.7	----	25.9	----	46.8	----	20.9	N(CAV)
9	0.87800	----	4.3	21.7	----	26.0	----	46.0	----	20.0	N(CAV)
10	1.82800	----	7.3	21.7	----	29.0	----	46.0	----	17.0	N(CAV)
11	5.04500	----	2.0	21.7	----	23.7	----	50.0	----	26.3	N(CAV)
12	8.91000	----	3.1	21.6	----	24.7	----	50.0	----	25.3	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.

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5.2 Radiated Disturbance

5.2.1 Operating Environment

Ambient temperature : 24.2 °C
Relative humidity : 49.2 % R.H.

5.2.2 Test Setup

The radiated emissions measurements were on the 10 m semi anechoic chamber. The EUT and other support equipment were placed on a non-conductive support 0.1 / 0.8 m above a reference ground plane.

The frequency spectrum from 30 MHz to 25 000 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 : 4.1 dB
Radiated emission electric field intensity, 1 000 MHz ~ 25 000 MHz : 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

<table>
<tr><th>Frequency of Emission
(MHz)</th><th>Resolution
bandwidth</th><th colspan="2">Field strength @ 3 m
(dBμV/m)</th></tr>
<tr><td rowspan="2">30 ~ 88
88 ~ 216
216 ~ 960
Above 960</td><td rowspan="2">120 kHz</td><td colspan="2">Quasi-peak</td></tr>
<tr><td colspan="2">40.0
43.5
46.0
54.0</td></tr>
<tr><td rowspan="2">> 1 000</td><td rowspan="2">1 MHz</td><td>Peak Limit</td><td>CISPR Average Limit</td></tr>
<tr><td>74.0</td><td>54.0</td></tr>
</table>

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-. ICES-003

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

5.2.5 Test Equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal. (Interval)
■ -	ESW	Rohde & Schwarz	EMI Test Receiver	101851	Mar. 07, 2023 (1Y)
■ -	VULB9163	Schwarzbeck	Trilog Broadband Antenna	9163-225	Sep. 14. 2022 (2Y)
■ -	3115	ETS-LINDGREN	Horn Antenna	34823	Aug. 12, 2022 (1Y)
■ -	8447D	Hewlett Packard	Amplifier	2944A07777	Mar. 07, 2023 (1Y)
■ -	PAM-118A	Com-Power	Amplifier	18040081	Oct. 13, 2022 (1Y)
■ -	PAM-840A	Com-Power	Amplifier	461339	Oct. 13, 2022 (1Y)
■ -	SAS-574	A.H. System	Horn Antenna	676	Oct. 19, 2022 (1Y)
■ -	CO3000	Innco Systems GmbH	Controller	CO3000/1015	N/A
■ -	DT5000	Innco Systems GmbH	Turn Table	N/A	N/A
■ -	MA4000-EP	Innco Systems GmbH	Antenna Master	MA4000/508	N/A
■ -	MA4640-XPET	Innco Systems GmbH	Antenna Master	MA4640/592	N/A
■ -	WT-A3882-R10	Microwve	Cavity Band Rejection Filter	WT22040502-1	Apr. 03, 2023 (1Y)

All test equipment used is calibrated on a regular basis.

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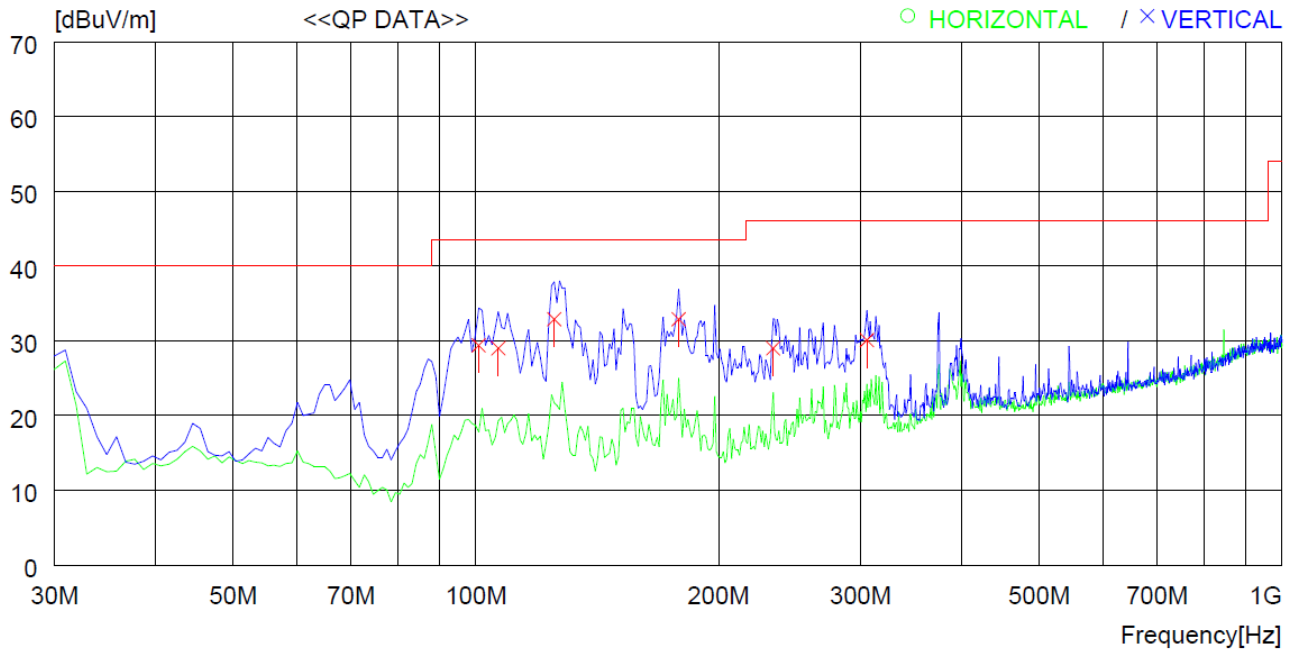
5.2.6 Test Data

-. Test Result : Pass

Tested by: Young-Jae, Kim / Project Engineer

Operating Mode 1			
Frequency range	: 30 MHz ~ 1 000 MHz	Applied Standards	: FCC Part 15 Subpart B
Resolution bandwidth	: 120 kHz	Test Date	: August 03, 2023
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]
----- Vertical ------										
1	100.810	40.9	12.5	4.3	28.3	29.4	43.5	14.1	100	158
2	106.630	41.2	11.7	4.4	28.3	29.0	43.5	14.5	100	252
3	125.060	46.7	9.6	4.8	28.2	32.9	43.5	10.6	100	139
4	178.410	45.8	9.6	5.7	28.2	32.9	43.5	10.6	100	0
5	233.700	38.4	12.0	6.6	28.0	29.0	46.0	17.0	100	8
6	305.480	36.5	13.6	7.7	27.7	30.1	46.0	15.9	100	341

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.

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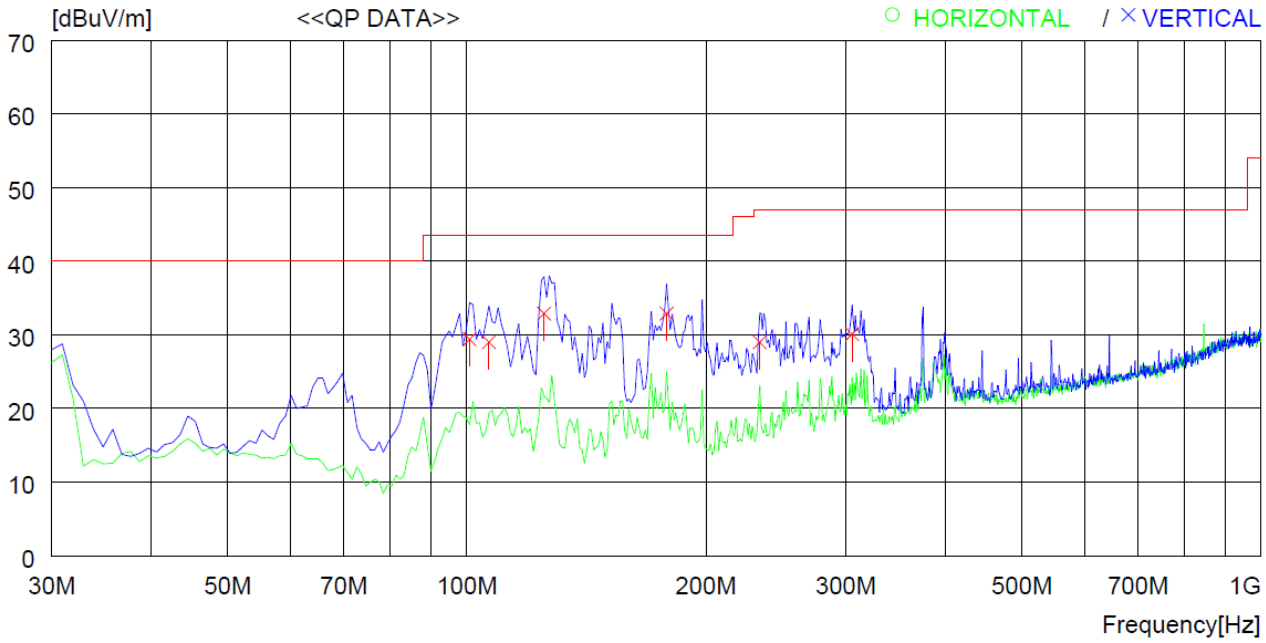
Operating Mode 1			
Frequency range	: 30 MHz ~ 1 000 MHz	Applied Standards	: ICES-003 Issue 7
Resolution bandwidth	: 120 kHz	Test Date	: August 03, 2023
Detector Mode	: Quasi-Peak	Measurement distance	: 3 m



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]
----- Vertical ------										
1	100.810	40.9	12.5	4.3	28.3	29.4	43.5	14.1	100	158
2	106.630	41.2	11.7	4.4	28.3	29.0	43.5	14.5	100	252
3	125.060	46.7	9.6	4.8	28.2	32.9	43.5	10.6	100	139
4	178.410	45.8	9.6	5.7	28.2	32.9	43.5	10.6	100	0
5	233.700	38.4	12.0	6.6	28.0	29.0	47.0	18.0	100	8
6	305.480	36.5	13.6	7.7	27.7	30.1	47.0	16.9	100	341

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.

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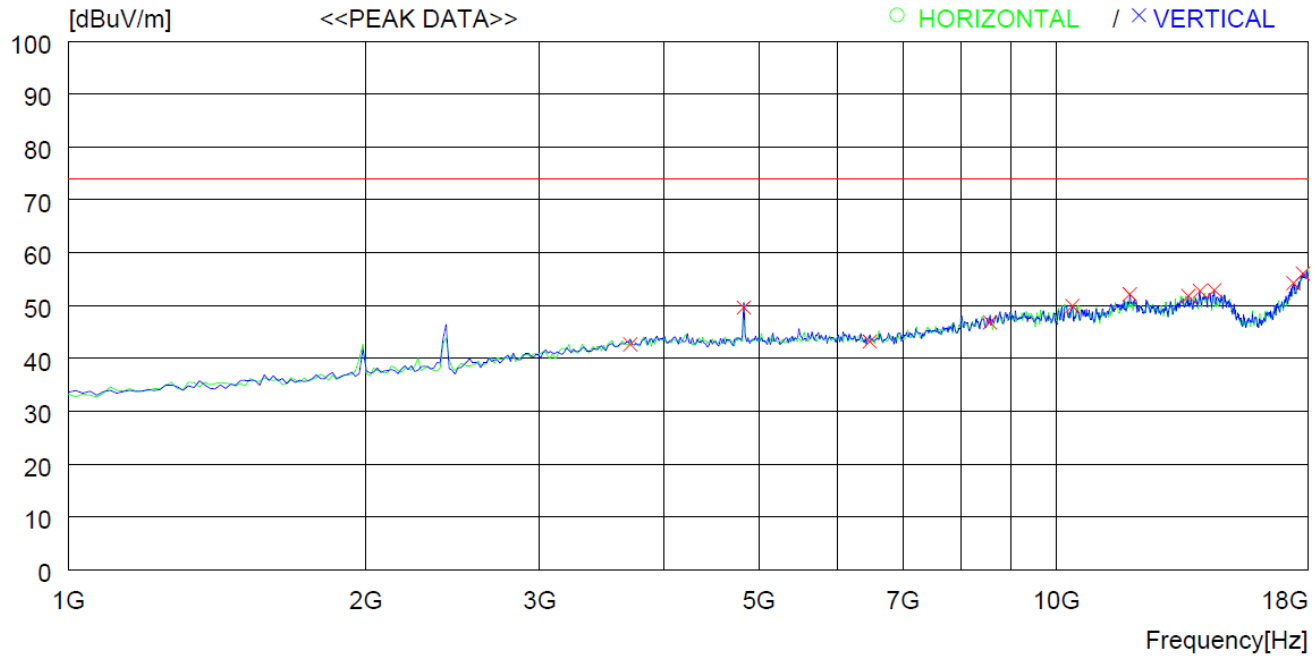
Operating Mode 1			
Frequency range	: 1 GHz ~ 18 GHz	Test Date	: August 03, 2023
Resolution bandwidth	: 1 MHz	Measurement distance	: 3 m
Detector Mode	: Peak		



No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Vertical ------										
1	3703.000	47.5	31.8	3.1	39.8	42.6	74.0	31.4	100	359
2	4825.000	53.0	33.0	3.5	39.9	49.6	74.0	24.4	100	359
3	6474.000	44.9	34.4	4.0	40.1	43.2	74.0	30.8	100	319
4	8565.000	44.1	38.4	4.5	40.2	46.8	74.0	27.2	100	359
5	10384.000	45.6	38.0	7.4	41.1	49.9	74.0	24.1	100	127
6	11863.000	46.0	39.2	8.3	41.4	52.1	74.0	21.9	100	52
7	13597.000	44.5	40.5	8.6	41.8	51.8	74.0	22.2	100	359
8	13971.000	44.5	41.4	8.7	41.9	52.7	74.0	21.3	100	359
9	14447.000	43.8	42.1	8.8	41.8	52.9	74.0	21.1	100	185
10	17371.000	43.3	43.1	9.9	42.1	54.2	74.0	19.8	100	359
11	17762.000	42.0	46.1	10.1	42.2	56.0	74.0	18	100	359

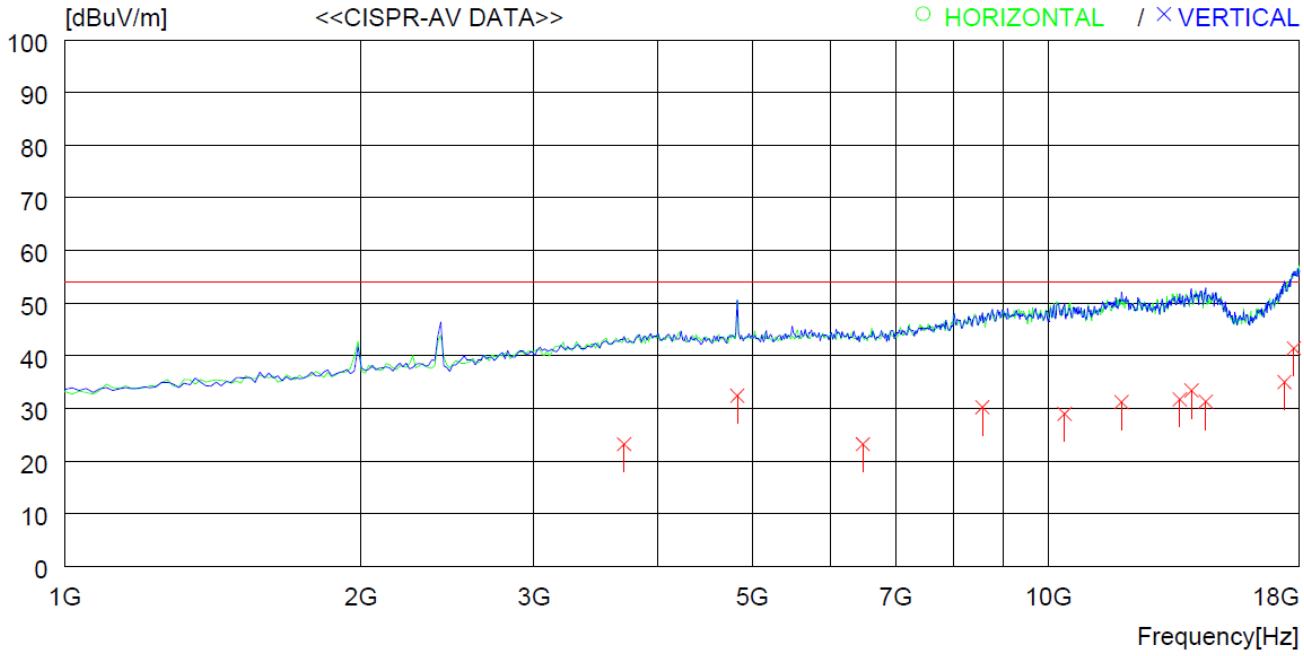
Remark: Margin (dB) = Limit – Result

Result = Reading Peak + Antenna Factor + Loss – Gain

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

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

Operating Mode 1			
Frequency range	: 1 GHz ~ 18 GHz	Test Date	: August 03, 2023
Resolution bandwidth	: 1 MHz	Measurement distance	: 3 m
Detector Mode	: CISPR-Average		



No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Vertical ------										
1	3703.142	27.1	31.8	4.5	40.2	23.2	54.0	30.8	100	359
2	4825.388	34.9	33.0	5.0	40.5	32.4	54.0	21.6	100	359
3	6474.264	23.6	34.4	5.9	40.7	23.2	54.0	30.8	100	319
4	8565.442	26.1	38.4	6.6	40.9	30.2	54.0	23.8	100	359
5	10384.830	24.7	38.0	7.4	41.1	29.0	54.0	25.0	100	127
6	11863.330	25.1	39.2	8.3	41.4	31.2	54.0	22.8	100	52
7	13597.430	24.4	40.5	8.6	41.8	31.7	54.0	22.3	100	359
8	13971.150	25.2	41.4	8.7	41.9	33.4	54.0	20.6	100	359
9	14447.630	22.2	42.1	8.8	41.8	31.3	54.0	22.7	100	185
10	17371.990	24.1	43.1	9.9	42.1	35.0	54.0	19.0	100	359
11	17762.020	27.4	46.1	10.1	42.2	41.4	54.0	12.6	100	359

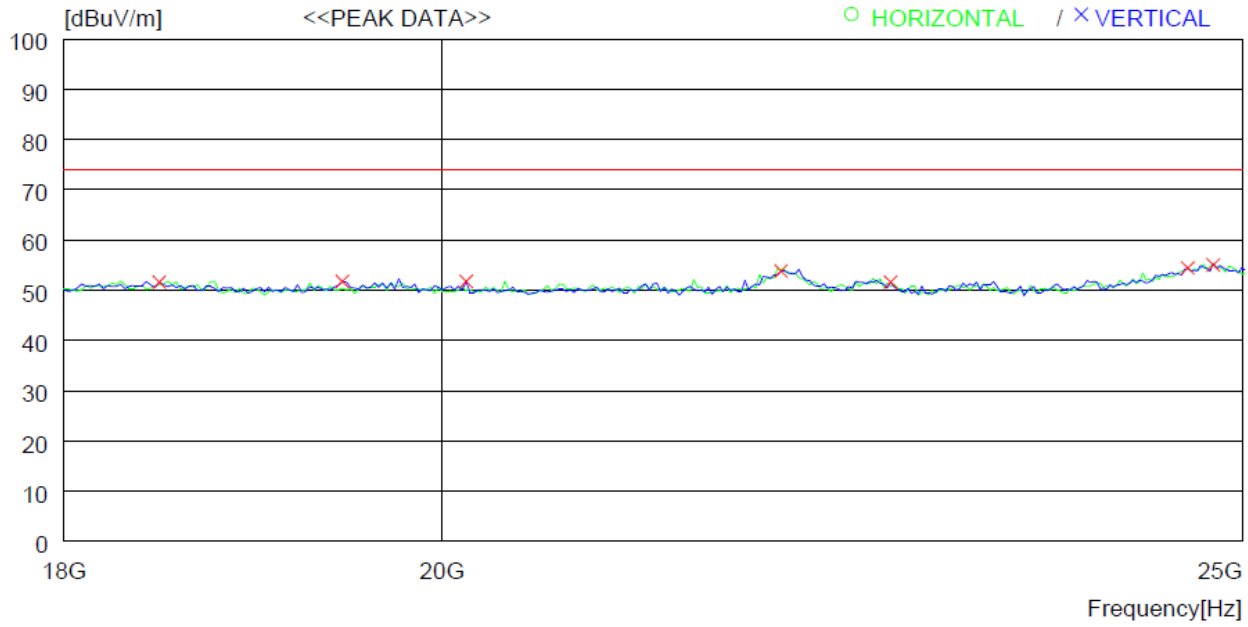
Remark: Margin (dB) = Limit – Result

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

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

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

Operating Mode 1			
Frequency range	: 18 GHz ~ 25 GHz	Test Date	: August 03, 2023
Resolution bandwidth	: 1 MHz	Measurement distance	: 3 m
Detector Mode	: Peak		



No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA TABLE [cm]	[DEG]
----- Vertical ------										
1	18484.00	40.7	40.4	10.2	39.7	51.6	74.0	22.4	100	0
2	19452.00	42.1	40.2	10.4	41.0	51.7	74.0	22.3	100	0
3	20134.00	42.3	40.3	10.9	41.8	51.7	74.0	22.3	100	0
4	21982.00	45.0	40.2	11.5	42.9	53.8	74.0	20.2	100	124
5	22664.00	43.5	40.1	11.0	43.0	51.6	74.0	22.4	100	1
6	24622.00	45.5	40.2	11.8	43.1	54.4	74.0	19.6	100	0
7	24798.00	46.2	40.3	11.4	42.9	55.0	74.0	19	100	43

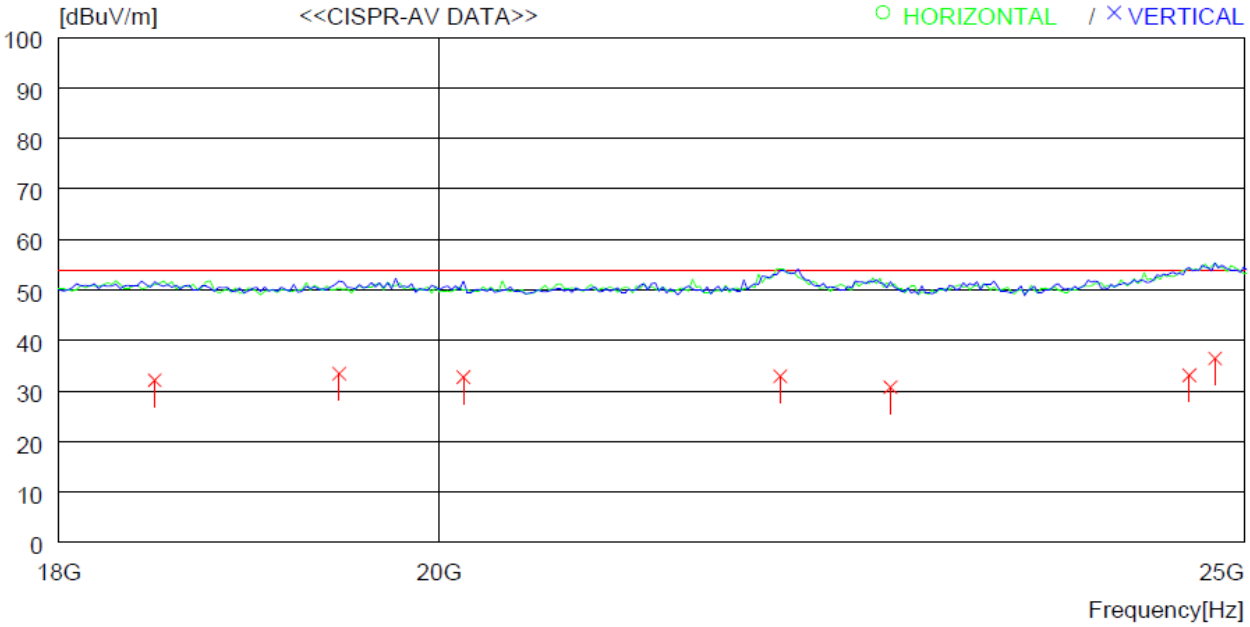
Remark: Margin (dB) = Limit – Result

Result = Reading Peak + Antenna Factor + Loss – Gain

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

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

Operating Mode 1			
Frequency range	: 18 GHz ~ 25 GHz	Test Date	: August 03, 2023
Resolution bandwidth	: 1 MHz	Measurement distance	: 3 m
Detector Mode	: CISPR-Average		



No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Vertical ------										
1	18484.020	21.2	40.4	10.2	39.7	32.1	54.0	21.9	100	0
2	19452.150	23.8	40.2	10.4	41.0	33.4	54.0	20.6	100	0
3	20134.430	23.3	40.3	10.9	41.8	32.7	54.0	21.3	100	0
4	21982.250	24.1	40.2	11.5	42.9	32.9	54.0	21.1	100	124
5	22664.340	22.6	40.1	11.0	43.0	30.7	54.0	23.3	100	1
6	24622.120	24.2	40.2	11.8	43.1	33.1	54.0	20.9	100	0
7	24798.130	27.3	40.3	11.8	43.0	36.4	54.0	17.6	100	43

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.

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

6. SAMPLE CALCULATIONS

$$dB\mu V = 20\ Log_{10}(\mu V)$$

Margin = Limit - Result

-. Example 1: 1.82800 MHz

CLASS B Limit	= 46.0 dBμV (CISPR Average)
Reading	= 7.3 dBμV
Correction Factor	= Cable Loss + Pulse Limiter
	= 21.7 dB
Total	= 29.0 dBμV
Margin	= 46.0 dBμV – 29.0 dBμV
	= 17.0 dB

-. Example 2: 125.060 MHz

CLASS B Limit	= 43.5 dBμV/m (Quasi-Peak)
Reading	= 46.7 dBμV
Correction Factor	= Antenna Factor (9.6 dB/m) + Cable Loss (4.8 dB) - Amp. Gain (28.2 dB)
	= -13.8 dB
Total	= 32.9 dBμV/m
Margin	= 43.5 dBμV/m – 32.9 dBμV/m
	= 10.6 dB

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

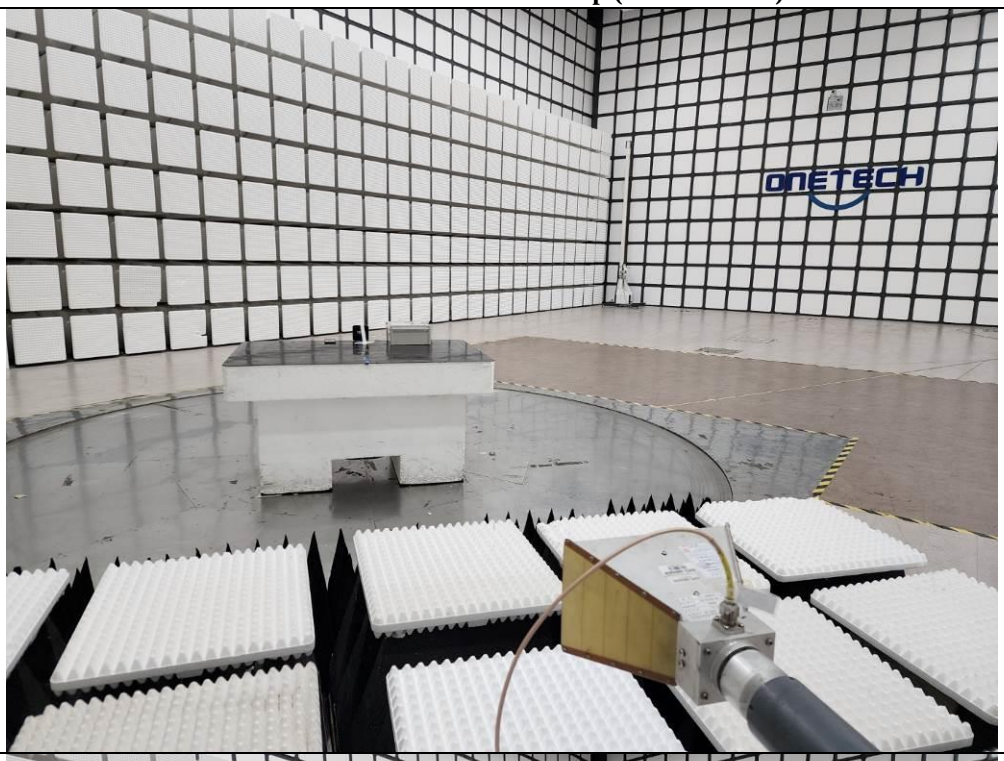
APPENDIX A

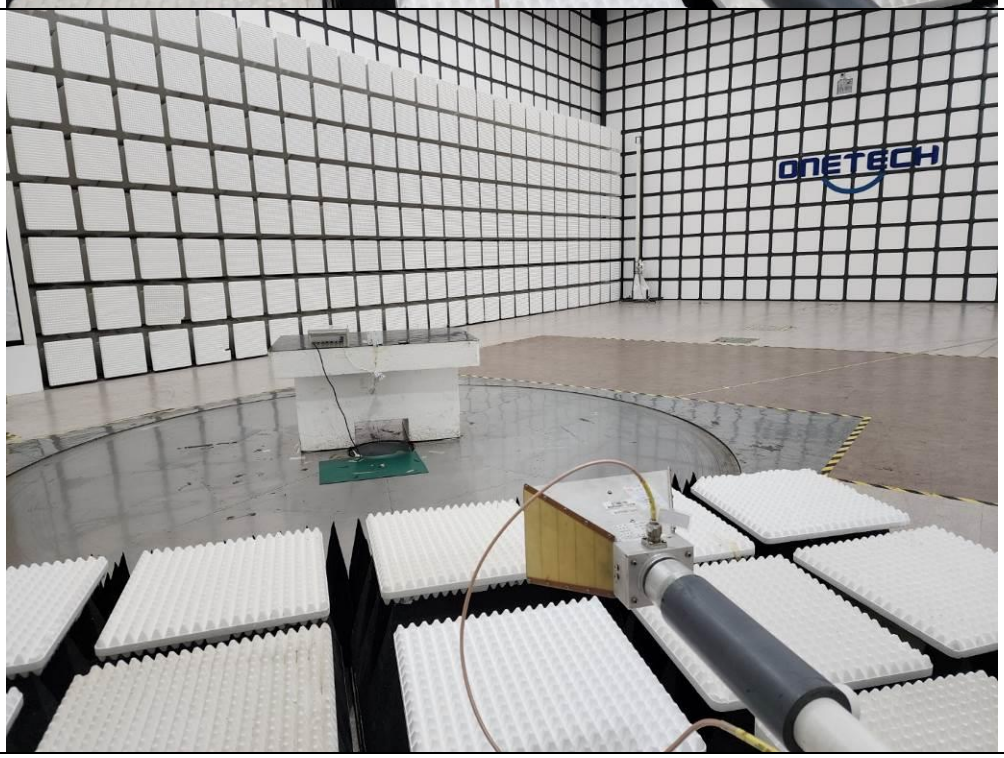
[TEST SET UP PHOTOGRAPHS]

Conducted Disturbance Test Set Up

Radiated Disturbance Test Set Up (Below 1 GHz)

Radiated Disturbance Test Set Up (Above 1 GHz)





APPENDIX B

[PHOTOGRAPHS OF EUT]

Enclosure (Front)

Enclosure (Rear)


Warning
There is a risk electric shock.
Make sure to cut off power during the installation or service.
If the wire color does not match during the cable connection,
it will not work.
〈How to connection〉
GND
Black
SIG
Yellow
12 V
Red

Inside

APPENDIX C

[DECLARATION OF CONFORMITY]

SUPPLIER's DECLARATION OF CONFORMITY

Per FCC § 2.1077 Compliance information.

Trade Name : LG

Model Number : PREMTA201

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful Interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party: LG Electronics USA, Inc.

Address: 111 Sylvan Avenue, North Building
Englewood Cliffs, New Jersey
07632

E-mail: lg.environmental@lge.com

We hereby declare that the equipment bearing the trade and model number specified above was tested conforming to the applicable FCC rules under the most accurate measurement standards possible, and that the necessary steps have been taken and are in force to assure that production units equipment will continue to comply with the Commission's requirements.

LG Electronics USA, Inc.

HjaeCHo

Signature

August 08, 2023

Date

APPENDIX D

[LABELLING REQUIREMENTS]

[INFORMATION TO THE USER IN USER'S MANUAL]

LABELLING REQUIREMENTS

FCC Part 15 SUBPART B § 15.19 Labeling requirements

(a) In addition to the requirements in part 2 of this chapter, a device subject to certification, or Supplier's Declaration of Conformity shall be labeled as follows:

(1) Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under part 73 of this chapter, land mobile operation under part 90 of this chapter, etc., shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

(2) A stand-alone cable input selector switch, shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules for use with cable television service.

(3) All other devices shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

(4) Where a device is constructed in two or more sections connected by wires and marketed together, the statement specified under paragraph (a) of this section is required to be affixed only to the main control unit.

(5) When the device is so small or for such use that it is impracticable to label it with the statement specified under paragraph (a) of this section in a font that is four-point or larger, and the device does not have a display that can show electronic labeling, then the information required by this paragraph shall be placed in the user manual and must also either be placed on the device packaging or on a removable label attached to the device.

For FCC Certification

If the device is subject to Certification: (1) Section 2.925 contains information on identification of the equipment; (2) include a label bearing an FCC Identifier (FCC ID) (Section 2.926) and (3) include the appropriate compliance statement in Section 15.19(a). If the labelling area is considered too small and therefore it is impractical (smaller than the palm of the hand) to display the compliance statement, then the statement may be placed in the user manual or product packaging. However, the device must still be labelled with the FCC ID. If the device is unquestionably too small for the FCC ID to be readable (smaller than 4-6 points), the FCC ID may be placed in the user manual. However, it must be determined that the device itself is too small – the label area allocated to the FCC ID may not be reduced because of over crowded identification of other product and regulatory information. Justification for placing the FCC ID in the manual must be submitted with the initial application for certification for review and approval.

For FCC Supplier's Declaration of Conformity (SDOC)

(a) If a product must be tested and authorized under Supplier's Declaration of Conformity, a compliance information statement shall be supplied with the product at the time of marketing or importation, containing the following information:

(1) Identification of the product, e.g., name and model number;

(2) A compliance statement as applicable, e.g., for devices subject to part 15 of this chapter as specified in §15.19(a)(3) of this chapter, that the product complies with the rules; and

(3) The identification, by name, address and telephone number or Internet contact information, of the responsible party, as defined in §2.909. The responsible party for Supplier's Declaration of Conformity must be located within the United States.

(b) If a product is assembled from modular components (e.g., enclosures, power supplies and CPU boards) that, by themselves, are authorized under a Supplier's Declaration of Conformity and/or a grant of certification, and the assembled product is also subject to authorization under Supplier's Declaration of Conformity but, in accordance with the applicable regulations, does not require additional testing, the product shall be supplied, at the time of marketing or importation, with a compliance information statement containing the following information:

(1) Identification of the assembled product, e.g., name and model number.

(2) Identification of the modular components used in the assembly. A modular component authorized under Supplier's Declaration of Conformity shall be identified as specified in paragraph (a)(1) of this section. A modular component authorized under a grant of certification shall be identified by name and model number (if applicable) along with the FCC Identifier number.

(3) A statement that the product complies with part 15 of this chapter.

(4) The identification, by name, address and telephone number or Internet contact information, of the responsible party who assembled the product from modular components, as defined in §2.909. The responsible party for Supplier's Declaration of Conformity must be located within the United States.

(5) Copies of the compliance information statements for each modular component used in the system that is authorized under Supplier's Declaration of Conformity.

(c) The compliance information statement shall be included in the user's manual or as a separate sheet. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form. The information may be provided electronically as permitted in §2.935.

For ICES-003

The manufacturer, importer or supplier shall meet the labelling requirements set out in this section and in Notice 2014-DRS1003 for electronic labelling for every unit:

i. prior to marketing in Canada, for ITE manufactured in Canada and

ii. prior to importation into Canada, for imported ITE.

Each unit of an ITE model shall bear a label (see below) that represents the manufacturer's or the importer's SDoC with Innovation, Science and Economic Development Canada's ICES-003. This label shall be permanently affixed to the ITE or displayed electronically and its text must be clearly legible. If the dimensions of the device are too small or if it is not practical to place the label on the ITE and electronic labelling has not been implemented, the label shall be, upon agreement with Innovation, Science and Economic Development Canada, placed in a prominent location in the user manual supplied with the ITE. The user manual may be in an electronic format and must be readily available.

Innovation, Science and Economic Development Canada ICES-003 Compliance Label:

CAN ICES-3 (*)/NMB-3(*)

* Insert either "A" or "B" but not both to identify the applicable Class of ITE.

PROPOSED LABEL

The label included following statement will be attached on product or the compliance statement can be observed in a prominent location in the instruction manual.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

INFORMATION TO THE USER IN USER'S MANUAL

For FCC: The instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

For a **CLASS B** digital device or peripheral

Note: This equipment has been tested and found to comply with the limits for a CLASS B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING

Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

For a **Class B** digital device or peripheral

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one more of the following measures:

-. Reorient or relocate the receiving antenna.

-. Increase the separation between the equipment and receiver.

-. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-. Consult the dealer or an experienced radio/TV technician for help.

WARNING

Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.