

FCC EVALUATION REPORT FOR CERTIFICATION

Applicant: OHSUNG ELECTRONICS CO., LTD.

**#181 Gongdan-dong , Gumi-si, Gyeongbuk
Republic of Korea.**

Attn : Mr. Hak-Ki Kim / General Manager

Date of Issue: May 29, 2017

Order Number: GETEC-C1-17-268

Test Report Number: GETEC-E3-17-034

Test Site: GUMI UNIVERSITY EMC CENTER

FCC Test Firm Registration No.: 269701

FCC ID. : OZ5URCDMS1200N

Applicant : OHSUNG ELECTRONICS CO., LTD.

Rule Part(s) : FCC Part 15 Subpart B
Equipment Class : Class B computing device peripheral(JBP)
EUT Type : Multi Zone Amplifier
Type of Authority : Certification
Model Name : DMS-1200
Trade Name : UNIVERSAL Remote Control

This equipment has been shown to be in compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4 (2014)

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the vest of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Tested by,



**Sung Min Moon , Associate Engineer
GUMI UNIVERSITY EMC CENTER**

Reviewed by,

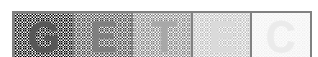


**Jae-Hoon Jeong, Technical Manager
GUMI UNIVERSITY EMC CENTER**



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Scope: Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and / or unintentional radiators for compliance with technical rules and regulations of the Federal Communications Commission.

1. General Information

Applicant: OHSUNG ELECTRONICS CO.,LTD.

Applicant Address: #181, Gongdan 1-dong, Gumi-si, Gyeongsangbuk-do, Republic of Korea

Manufacturer: OHSUNG ELECTRONICS CO.,LTD.

Manufacturer Address: #181, Gongdan 1-dong, Gumi-si, Gyeongsangbuk-do, Republic of Korea

Contact Person: Mr. Hak-Ki Kim / General Manager

Telephone Number: +82-54-468-7281 Fax Number: +82-54-461-8368

● FCC ID	OZURCDMS1200N
● EUT Type	Multi Zone Amplifier
● Model Name	DMS-1200
● Trade Name	UNIVERSAL Remote Control
● Serial Number	Prototype
● Rule Part(s)	FCC Part 15 Subpart B
● Type of Authority	Certification
● Test Procedure(s)	ANSI C63.4 (2014)
● Dates of Test	May 19 ~ May 26, 2017
● Place of Test	GUMI UNIVERSITY EMC CENTER (FCC Registration Number: 269701) 37 Yaeun-ro, Gumi-si, Gyeongsangbuk-do, 730-711, Republic of Korea.
● Test Report Number	GETEC-E3-17-034
● Date of Issue	May 29, 2017

EUT Type: Multi Zone Amplifier

FCC ID.: OZ5URCDMS1200





2. Introduction

The measurement procedure described in American National Standard for Methods of Measurement of Radio-Nose Emissions From Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz (ANSI C63.4-2014) was used in determining radiated and conducted emissions emanating from **OHSUNG ELECTRONICS CO., LTD. Multi Zone Amplifier (Model Name: DMS-1200)**

These measurement tests were conducted at **GUMI UNIVERSITY EMC CENTER**

The site address is 37 Yaeun-ro, Gumi-si, Gyeongsangbuk-do, 730-711, Republic of Korea.

This test site is one of the highest point of Gumi University at about 200 km away from Seoul city and 40 km away from Daegu city. It is located in the valley surrounded by mountains in all directions where ambient radio signal conditions are quiet and a favorable area to measure the radio frequency interference on open field test site for the computing and ISM devices manufactures. The detailed description of the measurement facility was found to be in compliance with the requirements of §2.948 according to ANSI C63.4 (2014)

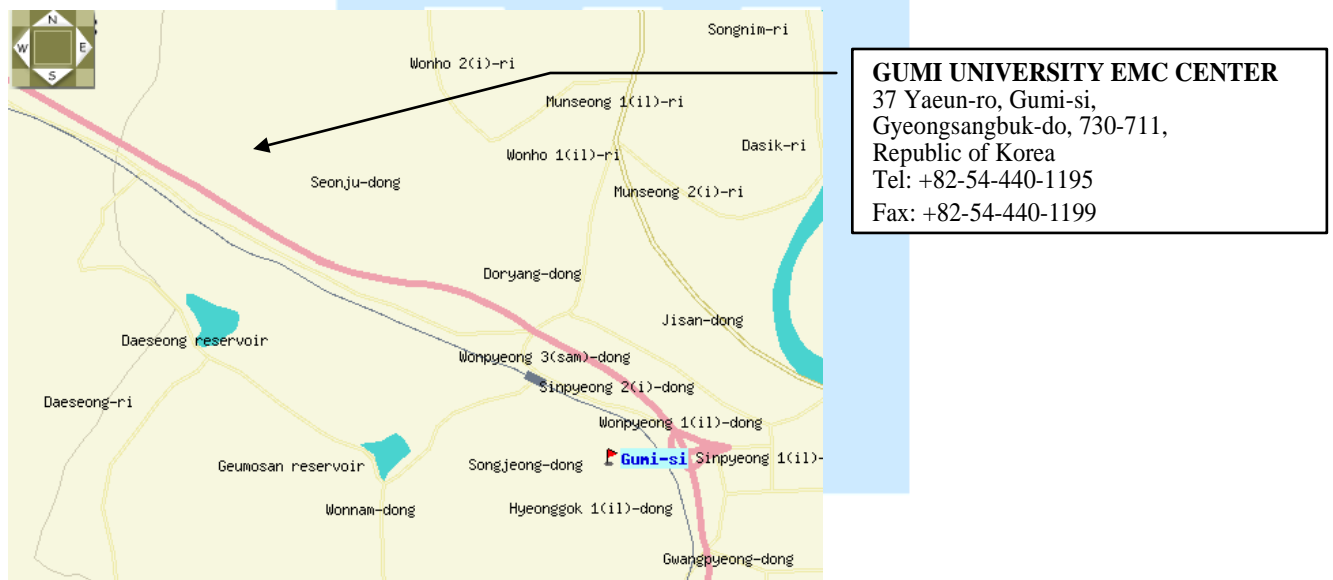


Fig 1. The map above shows the Gumi university in vicinity area.



3. Product Information

3.1 Description of EUT

The Equipment under Test (EUT) is the **OHSUNG ELECTRONICS CO., LTD. Multi Zone Amplifier (Model Name: DMS-1200)**

Audio section

Rated Wattage per Channel	50W+50W(8ohms, 20Hz~20KHz with 0.1% T.H.D 140W+140W(8ohms, 1KHz with 10% T.H.D
Frequency Response	20Hz~20KHz +/-1.0dB at 8ohms 20Hz~20KHz +/-3.0dB at 4ohms
Signal to Noise Ratio	85+/- 5dB
Total Harmonic Distortion	<0.06%, 20Hz~20KHz
Output connectors	8ohms, 4ohms stable
Input sensitivity	600~2200mVp-p/10Kohm
Network Connectivity	10/100 BaseT Ethernet
Tone Controls	Bass, Treble, 5-Band parametric EQ, LVLC(low volume level control)
Full Matrix Switching for Audio streaming	Yes
Number of Analogue Input sources	4
Number of Digital Input Sources (S/PDIF)	1
Speaker Output Zones	6
Line level Output Zones	2 (2.2Vp-p Variable output, 2.0Vp-p fixed output level)
Independent Gain Control per Zone	Yes
Accessories	AC cord, RCA cable, User`s manual

Environmental

Operational Temperature	32°F ~104°F (0°C- 40°C)
Humidity	5%- 95% (Non Condensing)
Storage Temperature	-4°F ~158°F (-20°C- 60°C)

General

Power supply	AC 100-240V, 50/60Hz
Power consumption	7A maximum
Maximum external Dimensions	5.25 1/32" x 17 1/18" x 16 1/1.87"
H x W x D	133mm x 432mm x 420mm
Weight	27lbs (12.1kg)

Highest Clock frequency	: 24.576 MHz
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EUT Type: Multi Zone Amplifier

FCC ID.: OZ5URCDMS1200





3.2 Support Equipment / Cables used

3.2.1 Used Support Equipment

Description	Manufacturer	Model Name	S/N & FCC ID.
DVD player	TKDS Co., Ltd.	DV-5500	DV550015031568
LOAD	-	-	-
Speaker	-	-	-
Wireless router	EFM networks	N8004	N8004 11062501912
NoteBook Computer	SAMSUNG	NT-R540	AZKW93AZC01238K

See "Appendix E- Test Setup Photographs" for actual system test set-up

3.2.2 System configuration

Description	Manufacturer	Model Name	S/N & FCC ID.
-	-	-	-



3.2.3 Used Cable(s)

Cable Name	Condition	Description
AC Power	Connected to the EUT to power	1.80 m unshielded
IR Sensor	Connected to the EUT and Sensor	1.50m unshielded
Speaker	Connected to the EUT and Speaker	1.50 m unshielded
LAN	Connected to the EUT and Network	1.80 m unshielded
Audio in(2 EA)	Connected to the EUT and DVD Player	2.80 m shielded
Load cable(6 EA)	Connected to the EUT and Load	0.80 m unshielded

3.3 Modification Item(s)

- None.





4. Description of tests

4.1 Test Condition

The EUT was installed, arranged and operated in a manner that is most representative of equipment as typically used. The measurements were carried out while varying operating modes and cable positions within typically arrangement to determine maximum emission level.

The representative and worst test mode(s) were noted in the test report.

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

- Test Voltage / Frequency : AC 120 V / 60 Hz
- Test Mode(s)
 - . Normal operating mode
 1. Connecte the Eut with Loads
 2. Set volume of max output power
 - Operating test pattern
 - . Continuous playback of 1 kHz audio file with winamp player
 - . Network connecting (Network utilization rate was 10 percent(used traffic generator software TGEN))



4.2 Conducted Emission

The Line conducted emission test facility is inside a 4 m × 8 m × 2.5 m shielded enclosure.
(FCC Registration No.: 269701)

The EUT was placed on a non-conducting 1.0 m by 1.5 m table, which is 0.8 m in height and 0.4 m away from the vertical wall of the shielded enclosure.

The EUT is powered from the Rohde & Schwarz LISN (ENV216) and the support equipment is powered from the Rohde & Schwarz LISN (ENV216). 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 (Rohde & Schwarz, ESCI).

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 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.

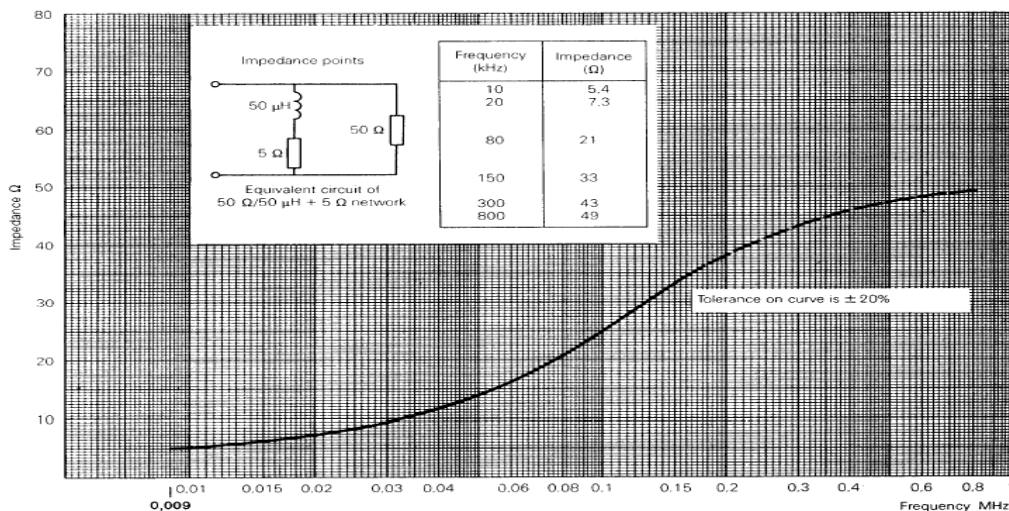


Fig 2. Impedance of LISN



4.3 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 of below 1GHz were made at 3 m Chamber (FCC Registration No.: 269701) or Open area test site (FCC Registration No.: 269701) that complies with CISPR 16/ANSI C63.4.

Above 1 GHz final measurements were conducted at the 3m Chamber (FCC Registration No.: 269701) only.

For measurements above 1GHz, the bottom side of 3 m chamber was installed with absorbers in order to meet SVSWR Limit.

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 & Average mode (Above 1 GHz).

The measurements were performed by rotating the EUT 360° and adjusting the receive antenna height from 1.0 m to 4.0 m. All frequencies were investigated in both horizontal and vertical antenna polarity.

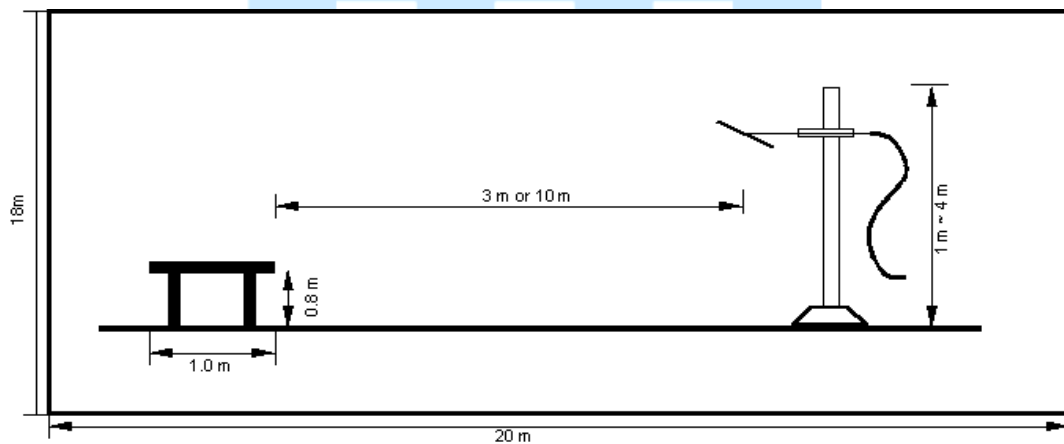


Fig 3. Dimensions of test site (Below 1 GHz)

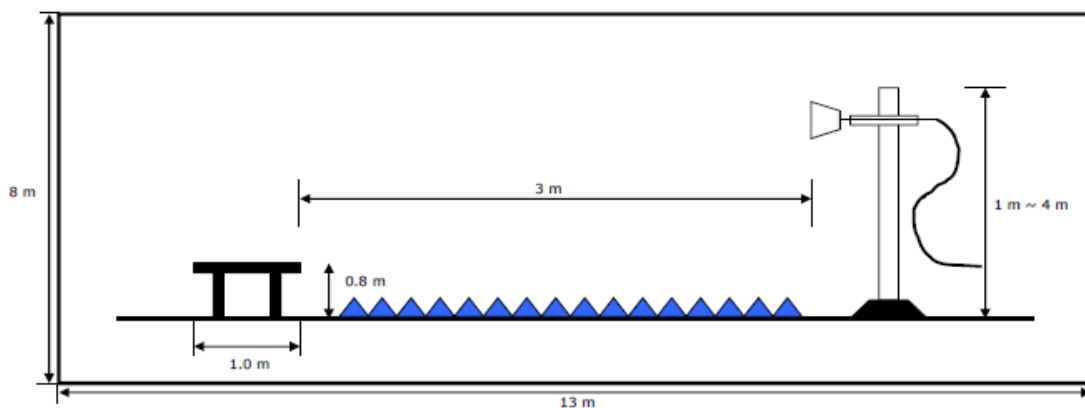


Fig 4. Dimensions of test site (Above 1 GHz)



5. Conducted Emission

5.1 Operating Environment

Temperature : 26.5 °C
Relative Humidity : 34.1 % R.H.

5.2 Test Set-up

The conducted emission measurements were performed in the shielded room.

The EUT was placed on wooden table, 0.8 m heights above the floor, 0.4 m from the reference ground plane (GRP) wall and 0.8 m from AMN & ISN.

AMN is bonded on horizontal reference ground plane.

The ground plane, which was electrically bonded to the shield room, ground system and all power lines entering the shield room, were filtered.

5.3 Measurement Uncertainty

The measurement uncertainty was calculated in accordance with ISO "Guide to the expression of uncertainty in measurement."

The measurement uncertainty was given with a confidence of 95 %.

Test Items	Uncertainty	Remark
Conducted emission (9 kHz ~ 150 kHz)	3.85 dB	Confidence level of approximately 95 % ($k = 2$)
Conducted emission (150 kHz ~ 30 MHz)	3.32 dB	Confidence level of approximately 95 % ($k = 2$)

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

The listed uncertainties are the worst case uncertainty for the entire range of measurement. please note that the uncertainty values are provided for informational purposes only are not used in determining the PASS/FAIL results



5.4 Limit

RFI Conducted	FCC Limit(dB μ V/m) Class B	
	Quasi-Peak	Average
150 kHz ~ 0.5 MHz	66 ~ 56*	56 ~ 46*
0.5 MHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

*Limits decreases linearly with the logarithm of frequency.

5.5 Test Equipment used

Model Name	Manufacturer	Description	Serial Number	Due to Calibration
■ - ESCI	Rohde & Schwarz	EMI Test Receiver	100237	Apr. 18, 2018
■ - ENV216	Rohde & Schwarz	LISN	100172	Apr. 19, 2018
■ - ENV216	Rohde & Schwarz	LISN	100173	Apr. 19, 2018
■ - ISN T8	TESEQ.GmbH	ISN	24568	Apr. 21, 2018

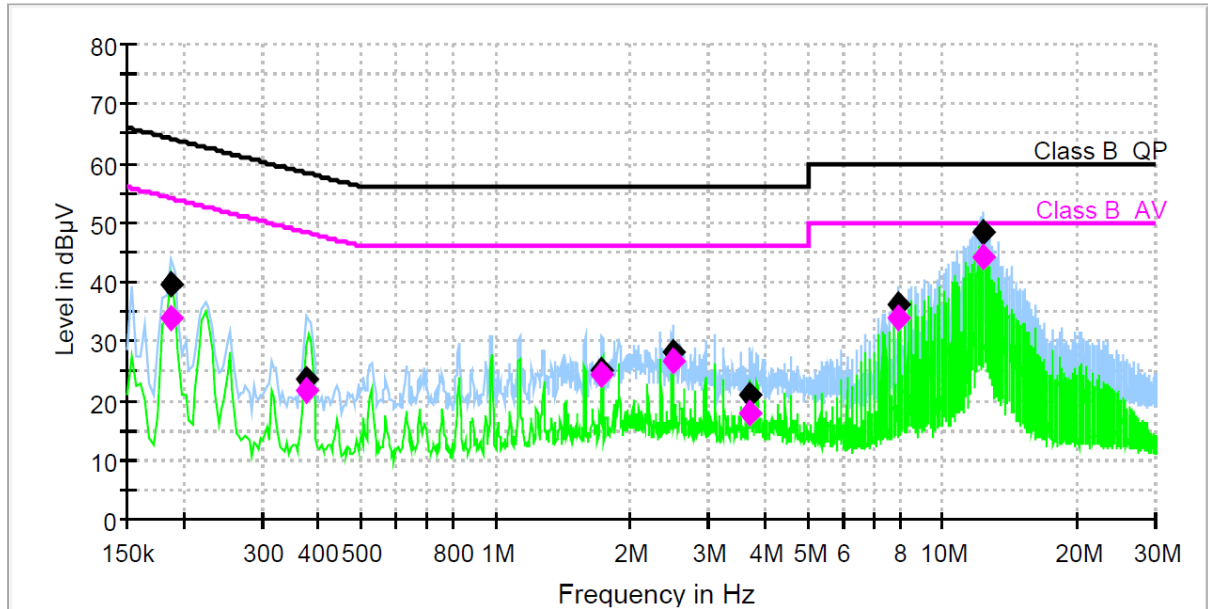
5.6 Test data for Conducted Emission

- Test Date : May 26, 2017
- Resolution Bandwidth : 9 kHz
- Frequency Range : 0.15 MHz ~ 30 MHz
- Line : L1: Live, N: Neutral





Operating condition: Normal operating mode



— Class B_QP — Class B_AV — Preview Result 1-PK+
— Preview Result 2-AVG ◆ Final Result 1-QPK ◆ Final Result 2-CAV

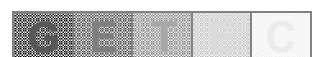
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.187313	39.5	200.0	9.000	Off	N	9.6	24.6	64.2	
0.377606	23.6	200.0	9.000	Off	N	9.7	34.7	58.3	
1.732050	25.3	200.0	9.000	Off	N	9.7	30.7	56.0	
2.489494	28.3	200.0	9.000	Off	N	9.7	27.7	56.0	
3.702150	21.1	200.0	9.000	Off	N	9.8	34.9	56.0	
7.925925	36.0	200.0	9.000	Off	L1	9.8	24.0	60.0	
12.302681	48.5	200.0	9.000	Off	L1	9.9	11.5	60.0	

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.187313	33.9	200.0	9.000	Off	N	9.6	20.3	54.2	
0.377606	21.7	200.0	9.000	Off	N	9.7	26.6	48.3	
1.732050	24.2	200.0	9.000	Off	N	9.7	21.8	46.0	
2.489494	26.8	200.0	9.000	Off	N	9.7	19.2	46.0	
3.702150	17.8	200.0	9.000	Off	N	9.8	28.2	46.0	
7.925925	34.0	200.0	9.000	Off	L1	9.8	16.0	50.0	
12.302681	44.1	200.0	9.000	Off	L1	9.9	5.9	50.0	

< Fig 5. Graph of continuous disturbance >





6. Radiated Emission

6.1 Operating Environment

Temperature : 23.1 °C
 Relative Humidity : 41.4 % R.H.

6.2 Test Set-up

A preliminary and final measurement was at 3 m anechoic chamber.

The EUT was placed on a non-conductive turntable approximately 0.8 m above the ground plane.

The turntable with EUT 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.

6.3 Measurement Uncertainty

The measurement uncertainty was calculated in accordance with ISO “Guide to the expression of uncertainty in measurement”.

The measurement uncertainty was given with a confidence of 95 %.

Test Items(3 m Anechoic Chamber)	Uncertainty	Remark
Radiated emission (30 MHz ~ 300 MHz, 3 m, Vertical)	4.78 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (30 MHz ~ 300 MHz, 3 m, Horizontal)	4.77 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (300 MHz ~ 1 000 MHz, 3 m, Vertical)	5.06 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (300 MHz ~ 1 000 MHz, 3 m, Horizontal)	5.03 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (1 000 MHz ~ 6 000 MHz, 3 m)	5.42 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (1 000 MHz ~ 18 000 MHz, 3 m)	5.64 dB	Confidence level of approximately 95 % ($k = 2$)
Test Items(10 m Anechoic Chamber)	Uncertainty	Remark
Radiated emission (30 MHz ~ 300 MHz, 3 m, Vertical)	4.36 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (30 MHz ~ 300 MHz, 3 m, Horizontal)	4.37 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (300 MHz ~ 1 000 MHz, 3 m, Vertical)	4.49 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (300 MHz ~ 1 000 MHz, 3 m, Horizontal)	4.47 dB	Confidence level of approximately 95 % ($k = 2$)

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

The listed uncertainties are the worst case uncertainty for the entire range of measurement. please note that the uncertainty values are provided for informational purposes only are not used in determining the PASS/FAIL results



6.4 Limit

Frequency (MHz)	FCC Limit @ 3 m. dB μ V/m	CISPR Limit @ 10 m. dB μ V/m
30 ~ 88	40.0	30.0
88 ~ 216	43.5	30.0
216 ~ 230	46.0	30.0
230 ~ 960	46.0	37.0
960 ~ 1 000	54.0	37.0

Frequency (MHz)	FCC Class B Peak Limit @ 3 m dB μ V/m	FCC Class B Average Limit@ 3 m dB μ V/m
> 1 000	74.0	54.0

6.5 Test Equipment used

Model Name	Manufacturer	Description	Serial Number	Due to Calibration
<input type="checkbox"/> ESIB26	Rohde & Schwarz	EMI Test Receiver	830482/010	Apr. 18, 2018
<input type="checkbox"/> ESU40	Rohde & Schwarz	EMI Test Receiver	100266	Apr. 18, 2018
<input type="checkbox"/> VULB9160	Schwarzbeck	Broad Band Test Antenna	3099	Aug. 03, 2017
<input type="checkbox"/> BBHA9120D	Schwarzbeck	Horn ANT	207	Oct. 14, 2017
<input type="checkbox"/> 3160-09	ETS LINDGREN	Horn ANT	218457	Jan. 31, 2018
<input type="checkbox"/> MCU066	maturu GmbH	Position Controller	1390306	N/A
<input type="checkbox"/> TT2.5SI	maturu GmbH	Turntable	1390307	N/A
<input type="checkbox"/> AM 4.0	maturu GmbH	Antenna Mast	1390308	N/A
<input type="checkbox"/> AFS 44 00101800-25-10P-44	MITEQ	Preamplifier	1258943	Apr. 22, 2018
<input type="checkbox"/> SCU-F1826-G47-BZ42-CSS(F)	Rohde & Schwarz	Preamplifier	10003	Dec. 09, 2017
<input type="checkbox"/> WHKX3.0/18G-10SS	WAINWRIGHT INSTRUMENTS	High pass filter	SN31	Apr. 18, 2018
<input checked="" type="checkbox"/> ESR7	Rohde & Schwarz	EMI Test Receiver	101382	Apr. 18, 2018
<input checked="" type="checkbox"/> VULB9160	Schwarzbeck	Broad Band Test Antenna	3193	Mar. 28, 2018
<input checked="" type="checkbox"/> 87405A	Agilent	Preamplifier	MY39500777	Apr. 22, 2018
<input checked="" type="checkbox"/> CO3000	Innco system GmbH	Position Controller	CO03000/779/ 33050314/L	N/A
<input checked="" type="checkbox"/> DT3000	Innco system GmbH	Turntable	1280314	N/A
<input checked="" type="checkbox"/> MA4000-EP	Innco system GmbH	Antenna Mast	4420314	N/A
<input checked="" type="checkbox"/> EMC 32	Rohde & Schwarz	Software	Ver.9.26.01	N/A

EUT Type: Multi Zone Amplifier

FCC ID.: OZ5URCDMS1200





6.6 Test data for Radiated Emission

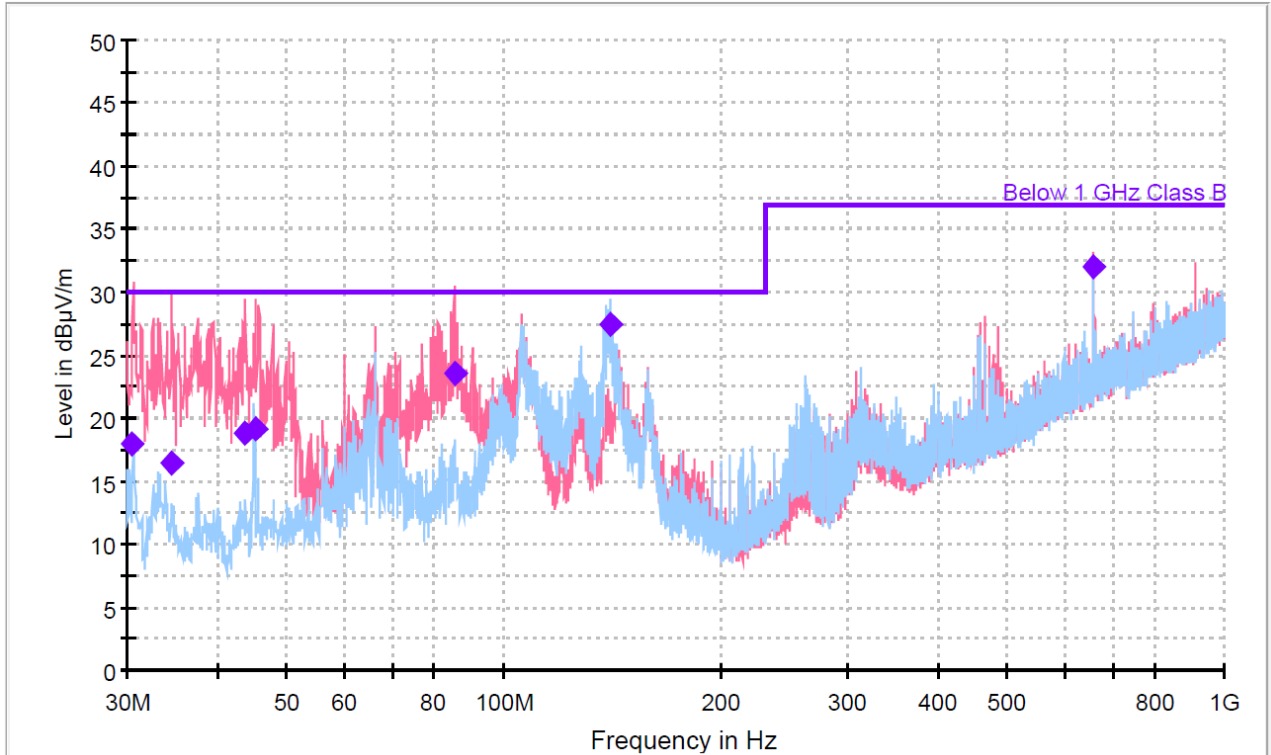
- Test Date : May 19, 2017
- Measurement Distance : 10 m
- Note : The highest frequency of the internal source of the EUT is less than 108 MHz (24.576 MHz). The measurement was made up to 1 000 MHz.
- Measurement setting

Frequency range	30 MHz ~ 1 GHz	Above 1 GHz
Detector mode	Quasi peak	Peak / Average
Resolution bandwidth	120 kHz	1 MHz





- Operating condition: Normal operating mode

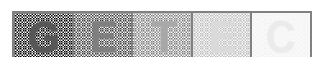


— Preview Result 1V-PK+ — Preview Result 1H-PK+
— Below 1 GHz Class B ◆ Final_Result QPK

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol
30.529	17.93	30.00	12.07	1000.0	120.000	102.9	V
34.651	16.37	30.00	13.63	1000.0	120.000	104.8	V
43.799	18.77	30.00	11.23	1000.0	120.000	106.0	V
45.250	19.16	30.00	10.84	1000.0	120.000	104.9	V
85.392	23.51	30.00	6.49	1000.0	120.000	225.0	V
140.534	27.44	30.00	2.56	1000.0	120.000	325.0	H
660.451	32.12	37.00	4.88	1000.0	120.000	217.9	V

< Fig 6. Radiated emission result (30 MHz ~ 1 000 MHz) >





7. Sample Calculations

$$\begin{aligned} \text{dB}\mu\text{V} &= 20 \text{ Log}_{10}(\mu\text{V}/\text{m}) \\ \text{dB}\mu\text{V} &= \text{dBm} + 107 \\ \mu\text{V} &= 10^{(\text{dB}\mu\text{V}/20)} \end{aligned}$$

7.1 Example 1 :

■ 20.3 MHz

Class B Limit	= 250 μV = 48 dBμV
Reading	= 39.2 dBμV
$10^{(39.2\text{dB}\mu\text{V}/20)}$	= 91.2 μV
Margin	= 48 dBμV - 39.2 dBμV
	= 8.8 dB

7.2 Example 2 :

■ 66.7 MHz

Class B Limit	= 100 $\mu\text{V}/\text{m}$ = 40.0 dB$\mu\text{V}/\text{m}$
Reading	= 31.0 dBμV
Antenna Factor + Cable Loss	= 5.8 dB
Total	= 36.8 dB$\mu\text{V}/\text{m}$
Margin	= 40.0 dB$\mu\text{V}/\text{m}$ - 36.8 dB$\mu\text{V}/\text{m}$
	= 3.2 dB



8. Recommendation & Conclusion

The data collected shows that the **OHSUNG ELECTRONICS CO., LTD.**
Multi Zone Amplifier (Model Name: DMS-1200) was complies with §15.107 and 15.109 of the FCC Rules.

- The end -

