

EVALUATION REPORT

for Certification

Applicant: Ohsung Electronics Co., Ltd. Date of Issue: Jun. 24, 2025

#181 Gongdan-dong, Gumi-si, Gyeonsangbuk-Do Order Number: GETEC-C1-25-244

South Korea Test Report Number: GETEC-E3-25-040

Attn: Mr. Hak Ki, Kim/ General Manager Test Site: GUMI UNIVERSITY EMC CENTER

CAB Designation Number: KR0033

RESPONSIBLE PARTY: Ohsung Electronics Co., Ltd.

ADDRESS : #181 Gongdan-dong, Gumi-si, Gyeongsangbuk-do, South Korea

CONTACT PERSON : Mr. Hak-Ki, Kim / General Manager

Rule Part(s) : FCC Part 15 Subpart C-Intentional Radiator § 15.247

Test Method : ANSI C63.10 (2013)

Equipment Class : Digital Transmission System(DTS)

EUT Type : Remote Controller

Type of Authority : Certification

Model Name : C008

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 C63.10 (2013)

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, Reviewed by,

Jong-Wook Park, Senior Engineer Hyun Kim, T GUMI UNIVERSITY EMC CENTER GUMI UNIV

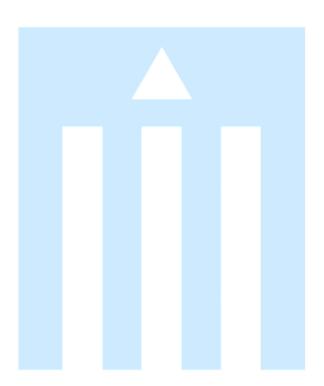
Hyun Kim, Technical Manager
GUMI UNIVERSITY EMC CENTER

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: GETEC-C1-25-244

Version

Test Report No.	Date	Description
GETEC-E3-25-040	Jun. 24, 2025	- First Approval Report



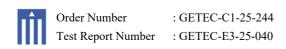
EUT Type: Remote Controller FCC ID.: OZ5C008

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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-dong, Gumi-si, Gyeongsangbuk-do, South Korea

Manufacturer: Ohsung Electronics Co., Ltd.

Manufacturer Address: #181 Gongdan-dong, Gumi-si, Gyeongsangbuk-do, South Korea

Contact Person: Mr. Hak ki, Kim/ General Manager

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

• FCC ID. OZ5C008

• Equipment Class Digital Transmission System (DTS)

• EUT Type Remote Controller

• Model Name C008

• Rule Part(s) FCC Part 15 Subpart C-Intentional Radiator § 15.247

• Test Method ANSI C63.10 (2013)

• Type of Authority Certification

• Test Procedure(s) ANSI C63.10 (2013), KDB558074 D01 DTS Meas Guidance v05r02

● **Dates of Test** Jun. 04, 2025 ~ Jun. 11, 2025

Place of Test
 GUMI UNIVERSITY EMC CENTER

37 Yaeun-ro, Gumi-si, Gyeongsangbuk-do, 730-711, Republic of Korea

(FCC Test firm Registration No.: 269701) (ISED Test Site Registration No.: 7620A)

• Test Report Number GETEC-E3-25-040

• **Dates of Issue** Jun. 24, 2025

GETEC-QP-16-008 (Rev.01) EUT Type: Remote Controller

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. Remote Controller.** (Model name: C008)

These measurement tests were conducted at GUMI UNIVERSITY EMC CENTER.

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

This test site is one of the highest point of Gumi 1 college at about 200 kilometers away from Seoul city and 40 kilometers away from Daege 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 C63.10 (2013)



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

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3. Product Information

3.1 Description of EUT

The Equipment under Test (EUT) is the Ohsung Electronics Co., Ltd. Remote Controller. (Model name: C008) FCC ID.: OZ5C008

Equipment	: Remote Controller					
Model Name	: C008					
Serial Number	: Proto type					
Electrical Rating	: DC 3.0 V					
Channel Separations	: 2 MHz					
Type of Modulation	: GFSK					
Type of Technique	: Bluetooth LE					
Frequency Range	: 2 402 MHz ~ 2 480 MHz					
Number of Channel	: 40					
Duty Cycle	: 14.64 % (Be declared by the manufacturer)					
Type of Chain	: One					
	: Manufacturer: Ohsung Electronics Co., Ltd.					
Antenna specification	Antenna type: PIFA antenna					
	Peak Gain: 4.85 dBi					

3.2 Definition of models

- None.

GETEC-QP-16-008 (Rev.01)

EUT Type: Remote Controller

: GETEC-C1-25-244

3.3 Support Equipment / Cables used

3.3.1 Used Support Equipment

Description	Manufacturer	Model Name	S/N & FCC ID.
Notebook computer ¹⁾	Samsung Electronics	NT500R3W	S/N: 0Q2V91JJ100096T FCC ID.: -

3.3.2 System configuration

Description Manufacturer		Model Name	S/N & FCC ID.	
None.	-	-	S/N: - FCC ID.: -	

3.3.3 Used Cable(s)

Cable Name	Cond	lition	7	De	escription
None.	-			-	

3.4 Modification Item(s)

-. None

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EUT Type: Remote Controller

nber : GETEC-C1-25-244 rt Number : GETEC-E3-25-040

4. Antenna Requirement - §15.203

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the applicant can be used with the device. The use of permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with this requirement.

4.1 Description of Antenna

The **Ohsung Electronics Co., Ltd. Remote Controller.** comply with the requirement of §15.203 with a built-in PIFA antenna permanently attached to the transmitter.

5. Description of tests

5.1 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.

- Test Voltage / Frequency: 3 V / DC
- Operating condition during the test(s):
 - -. Continuous RF transmitting mode with maximum RF output power.
 - -. Operating channel frequency and moderation technology

Mode	Available channel	Frequency	Type of Modulation
Bluetooth LE	0~39	2 402 ~ 2 480 MHz	GFSK

-. EUT set condition (Test Software)

Test Software		EMI Test Tool
Test Software version		V2.1

6. References Standards

- FCC Part 15 (2009) Subpart C-Intentional Radiator §15.247
- ANSI C 63.10 (2013): American National Standard for Testing Unlicensed Wireless Devices
- KDB 558074 D01 DTS meas Guidance v05r02: Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247

7. SUMMARY OF TEST RESULTS

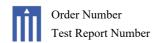
FCC Part Section(s)		Test Description	Test Result
§15.247(a)(2)		6 dB Bandwidth	N/A ²⁾
§15.247(b)(3)		Conducted Maximum Peak Output Power	N/A ²⁾
§15.247(e)		Power Spectral Density	N/A ²⁾
§15.247(d)		Conducted Out of Band Emission Emissions	N/A ²⁾
§15.207(a)		AC Power line Conducted Emissions	N/A ¹⁾
§15.205, 15.209		Radiated Spurious Emissions	Pass
§15.247(d), 15.205, 15.209		Radiated Restricted Band Edge	N/A ²⁾

Note)

EUT Type: Remote Controller

¹⁾ The EUT is supplied power from battery. Therefore the test was not applicable.

²⁾ The EUT has changed non-transmitter parts. Therefore the test was not applicable.



8. Radiated Spurious Emission

Exploratory Radiated measurements were conducted at the 3m 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.

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Final measurements of below 1GHz were made at 3m or 10 m Chamber that complies with CISPR 16/ANSI C63.10. Above 1GHz final measurements were conducted at the 3m Chamber only.

For measurements above 1GHz, the bottom side of 3m 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 1GHz) and Peak & Average mode (Above 1GHz).

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.

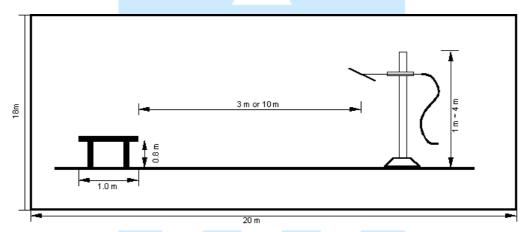


Fig 3. Dimensions of test site (Below 1GHz)

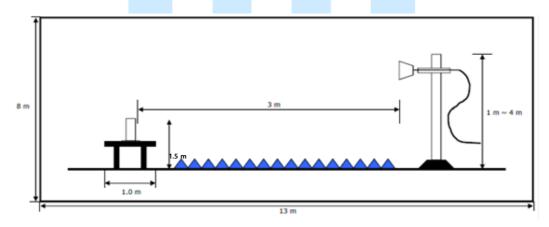


Fig 4. Dimensions of test site (Above 1GHz)

8.1 Operating environment

Temperature : 23.5 $^{\circ}$ C Relative humidity : 35.0 $^{\circ}$ R.H.

8.2 Test set-up

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

The EUT was placed on a non-conducting table.

For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane.

For emission measurements above 1 GHz, the table height is 1.5 m above the reference 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.

8.3 Measurement uncertainty

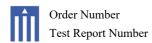
The measurement uncertainty was calculated in accordance with ISO "Guide to the expression of uncertainty in measurement".

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

Test items(Anechoic Chamber)	Uncertainty	Remark
Radiated emission (30 MHz ~ 300 MHz, 3 m, Vertical)	4.90 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (30 MHz ~ 300 MHz, 3 m, Horizontal)	4.79 dB	Confidence level of approximately 95 % $(k = 2)$
Radiated emission (300 MHz ~ 1 000 MHz, 3 m, Vertical)	6.23 dB	Confidence level of approximately 95 % $(k = 2)$
Radiated emission (300 MHz ~ 1 000 MHz, 3 m, Horizontal)	5.16 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (1 000 MHz ~ 6 000 MHz, 3 m, V/H)	4.56 dB	Confidence level of approximately 95 % (k = 2)
Radiated emission (6 000 MHz ~ 18 000 MHz, 3 m, V/H)	4.89 dB	Confidence level of approximately 95 % ($k = 2$)
Radiated emission (18 000 MHz ~ 26 000 MHz, 3 m, V/H)	5.16 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



8.4 Limit20 dB in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a) limit in the table below has to be followed.

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Frequencies (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2 400/F (kHz)	300
0.490 ~ 1.705	2 400/F (kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

8.5 Test Equipment used						
Model Name	Manufacturer		Descrip	tion	Serial Number	Due to Calibration
■ - ESW44	Rohde & Schw	arz	EMI Tes	t Receiver	103354	Apr. 02, 2026
■ - HFH2-Z2	Rohde & Schw	arz	Loop Ar	ntenna	100041	Apr. 15, 2026
■ - VULB9160	Schwarzbeck		Broadba	nd Test Antenna	3193	Apr. 19, 2026
■ - HF907	ETS LINDGRE	EN	Horn An	itenna	103197	Feb. 05, 2026
■ - BBHA9170	Schwarzbeck		Horn An	itenna	766	Apr. 17, 2026
■ - MCU066	maturo GmbH		Position	Controller	1390306	N/A
■ - TT2.5SI	maturo GmbH		Turntabl	e	1390307	N/A
■ - CO3000	Innco system G	mbH	Position	Controller	CO3000/1804/4	N/A
					2760218/P	
■ - MA4640-XP-ET	Innco system G	mbH	Antenna	Mast	5580916	N/A
■ - 310N	Sonoma Instrum	nent	Amplific	er	187164	Apr. 02. 2026
■ - TK-PA18H	TESTEK		Low No	ise Amplifier	220107-L	Apr. 03, 2026
■ - TK-PA1840H	TESTEK		Amplific	er	170007-L	Apr. 08, 2026
■ - WHKX3.0/18G-10SS	WAINWRIGH'	Γ	High pas	ss filter	SN31	Apr. 02, 2026
	INSTRUMENT	ΓS				
■ - SUCOFLEX 104	Huber+Suhner,	Inc.	RF coax	ial cable	271057/4	May 21, 2026
■ - SUCOFLEX 103	Huber+Suhner,	Inc.	RF coax	ial cable	MY112/3	May 21, 2026
■- EMC 32	Rohde & Schw	arz	Testing S	Software	VER10.50.10	N/A

EUT Type: Remote Controller

8.6 Test data for Radiated Spurious Emission

-. Test Date : Jun. $04 \sim 11, 2025$

-. Reference Standard : Part 15 Subpart C, Sec. 15.247(d)

-. Measuring Distance : 3 m

-. Resolution Bandwidth : 200 Hz, 9 kHz(Below 30 MHz) / 120 kHz(30 MHz ~ 1GHz) / 1 MHz(Above 1GHz)

-. Detector mode : Quasi Peak detector mode / Peak detector mode / Average detector mode

-. Power Source : DC 3.0 V

-. Note : Through three orthogonal axes were investigated and the worst case is report

With buzzer

Radiated Spurious Emission (9 kHz to 30 MHz): 2 402 MHz

Frequency	MaxPeak	Limit	Margin	Meas.Time	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
				N/A					

Radiated Spurious Emission (9 kHz to 30 MHz): 2 440 MHz

Frequency	QuasiPeak	Limit	Margin	Meas.Time	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	$(dB\mu V/m)$	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
				N/A					

Radiated Spurious Emission (9 kHz to 30 MHz): 2 480 MHz

Frequency	MaxPeak	Limit	Margin	Meas.Time	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	$(dB\mu V/m)$	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
				N/A					

Radiated Spurious Emission (30 MHz to 1 000 MHz): 2 402 MHz

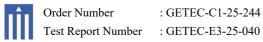
Frequency	QuasiPeak	Limit	Margin	Meas.Time	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
				N/A					

Radiated Spurious Emission (30 MHz to 1 000 MHz): 2 440 MHz

ı	Frequency	QuasiPeak	Limit	Margin	Meas.Time	Bandwidth	Height	Pol	Azimuth	Corr.
l	(MHz)	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
ĺ					N/A					

Radiated Spurious Emission (30 MHz to 1 000 MHz): 2 480 MHz

Frequency	QuasiPeak	Limit	Margin	Meas.Time	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
				N/A					



-

Radiated Spurious Emission (1 GHz to 26 GHz): 2 402 MHz

Frequency	Pol.	Frequency	Reading	Transducer	DCCF	Test	Limits	Margin	Detector
[MHz]		Component	[dBuV]	Factor		Result	[dBuV/m]	[dB]	Type
				[dB]		[dBuV/m]			
4 804.50	Н	Harmonics	63.19	-1.40	-	61.79	74.00	12.21	PK
4 804.50	Н	Harmonics	56.74	-1.40	-16.67	38.67	54.00	15.33	AV
7 206.70	Н	Harmonics	53.10	4.30	-	57.40	74.00	16.60	PK
7 206.70	Н	Harmonics	45.36	4.30	-16.67	32.99	54.00	21.01	AV
9 606.90	V	Harmonics	61.12	4.90	-	66.02	74.00	7.98	PK
9 606.90	V	Harmonics	53.22	4.90	-16.67	41.45	54.00	12.55	AV
12 008.80	Н	Harmonics	49.11	9.30	-	58.41	74.00	15.59	PK
12 008.80	Н	Harmonics	40.28	9.30	-16.67	32.91	54.00	21.09	AV

Radiated Spurious Emission (1 GHz to 26 GHz): 2 440 MHz

Frequency	Pol.	Frequency	Reading	Transducer	DCCF	Test	Limits	Margin	Detector
[MHz]		Component	[dBuV]	Factor		Result	[dBuV/m]	[dB]	Type
				[dB]		[dBuV/m]			
4 880.40	Н	Harmonics	63.09	-1.10	-	61.99	74.00	12.01	PK
4 880.40	Н	Harmonics	57.57	-1.10	-16.67	39.80	54.00	14.20	AV
7 320.80	Н	Harmonics	54.09	4.30	-	58.39	74.00	15.61	PK
7 320.80	Н	Harmonics	45.90	4.30	-16.67	33.53	54.00	20.47	AV
9 760.90	V	Harmonics	62.86	5.60	-	68.46	74.00	5.54	PK
9 760.90	V	Harmonics	55.40	5.60	-16.67	44.33	54.00	9.67	AV
12 201.20	Н	Harmonics	48.35	9.80	-	58.15	74.00	15.85	PK
12 201.20	Н	Harmonics	38.54	9.80	-16.67	31.67	54.00	22.33	AV

EUT Type: Remote Controller

Radiated Spurious Emission (1 GHz to 26 GHz): 2 480 MHz

Frequency	Pol.	Frequency	Reading	Transducer	DCCF	Test	Limits	Margin	Detector
[MHz]		Component	[dBuV]	Factor		Result	[dBuV/m]	[dB]	Type
				[dB]		[dBuV/m]			
4 960.40	V	Harmonics	56.13	-1.10	-	55.03	74.00	18.97	PK
4 960.40	V	Harmonics	49.76	-1.1	-16.67	31.99	54.00	22.01	AV
7 440.70	Н	Harmonics	56.48	4.40	-	60.88	74.00	13.12	PK
7 440.70	Н	Harmonics	49.17	4.40	-16.67	36.90	54.00	17.10	AV
9 918.80	V	Harmonics	61.52	6.20	-	67.72	74.00	6.28	PK
9 918.80	V	Harmonics	53.37	6.20	-16.67	42.90	54.00	11.10	AV
12 398.50	Н	Harmonics	49.00	9.90	-	58.90	74.00	15.10	PK
12 398.50	Н	Harmonics	38.97	9.90	-16.67	32.20	54.00	21.80	AV
14 881.50	V	Harmonics	43.27	15.70	-	58.97	74.00	15.03	PK
14 881.50	V	Harmonics	32.36	15.70	-16.67	31.39	54.00	22.61	AV
17 361.60	V	Harmonics	43.34	20.90	-	64.24	74.00	9.76	PK
17 361.60	V	Harmonics	31.90	20.90	-16.67	36.13	54.00	17.87	AV

Note:

If the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

Peak Test Result = Peak Reading + Transducer Factor

Average Test Result = Average Reading + Transducer Factor + DCCF

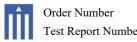
Where, Transducer Factor = Cable loss + Preamplifier gain + Antenna factor

DCCF = Duty Cycle Collection Factor

DCCF calculation: $20\log(\text{Duty cycle}) = 20\log(0.1464) = -16.67 \text{ dB}$

Pol.: H(Horizontal), V(Vertical)

EUT Type: Remote Controller



: GETEC-C1-25-244 Test Report Number : GETEC-E3-25-040

Without buzzer

Radiated Spurious Emission (9 kHz to 30 MHz): 2 402 MHz

Frequency	MaxPeak	Limit	Margin	Meas.Time	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
				N/A					

Radiated Spurious Emission (9 kHz to 30 MHz): 2 440 MHz

Frequency	QuasiPeak	Limit	Margin	Meas.Time	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
				N/A					

Radiated Spurious Emission (9 kHz to 30 MHz): 2 480 MHz

Frequency	MaxPeak	Limit	Margin	Meas.Time	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	$(dB\mu V/m)$	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
				N/A					

Radiated Spurious Emission (30 MHz to 1 000 MHz): 2 402 MHz

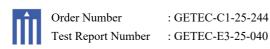
Frequency	QuasiPeak	Limit	Margin	Margin Meas.Time I		andwidth Height		Pol Azimuth	
(MHz)	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
				N/A					

Radiated Spurious Emission (30 MHz to 1 000 MHz): 2 440 MHz

Frequency	QuasiPeak	Limit	Margin	Meas.Time	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	$(dB\mu V/m)$	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
				N/A					

Radiated Spurious Emission (30 MHz to 1 000 MHz): 2 480 MHz

Frequency	QuasiPeak	Limit	Margin	Meas.Time	Bandwidth	Height	Pol	Azimuth	Corr.	
(MHz)	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)	
N/A										



Radiated Spurious Emission (1 GHz to 26 GHz): 2 402 MHz

Frequency	Pol.	Frequency	Reading	Transducer	DCCF	Test	Limits	Margin	Detector
[MHz]		Component	[dBuV]	Factor		Result	[dBuV/m]	[dB]	Type
				[dB]		[dBuV/m]			
4 804.50	Н	Harmonics	63.69	-1.40	-	62.29	74.00	11.71	PK
4 804.50	Н	Harmonics	57.30	-1.40	-16.67	39.23	54.00	14.77	AV
7 206.70	Н	Harmonics	51.50	4.30	-	55.80	74.00	18.20	PK
7 206.70	Н	Harmonics	43.34	4.30	-16.67	30.97	54.00	23.03	AV
9 608.80	V	Harmonics	60.59	4.90	-	65.49	74.00	8.51	PK
9 608.80	V	Harmonics	53.64	4.90	-16.67	41.87	54.00	12.13	AV

Radiated Spurious Emission (1 GHz to 26 GHz): 2 440 MHz

Frequency	Pol.	Frequency	Reading	Transducer	DCCF	Test	Limits	Margin	Detector
[MHz]		Component	[dBuV]	Factor		Result	[dBuV/m]	[dB]	Type
				[dB]		[dBuV/m]			
4 879.50	Н	Harmonics	63.68	-1.10	-	62.58	74.00	11.42	PK
4 879.50	Н	Harmonics	57.93	-1.10	-16.67	40.16	54.00	13.84	AV
7 319.20	Н	Harmonics	51.24	4.30	-	55.54	74.00	18.46	PK
7 319.20	Н	Harmonics	43.31	4.30	-16.67	30.94	54.00	23.06	AV
9 758.80	V	Harmonics	60.84	5.60	-	66.44	74.00	7.56	PK
9 758.80	V	Harmonics	52.60	5.60	-16.67	41.53	54.00	12.47	AV

Radiated Spurious Emission (1 GHz to 26 GHz): 2 480 MHz

Frequency [MHz]	Pol.	Frequency Component	Reading [dBuV]	Transducer Factor [dB]	DCCF	Test Result [dBuV/m]	Limits [dBuV/m]	Margin [dB]	Detector Type
4 959.50	Н	Harmonics	59.58	-1.10	-	58.48	74.00	15.52	PK
4 959.50	Н	Harmonics	53.41	-1.10	-16.67	35.64	54.00	18.36	AV
7 439.20	Н	Harmonics	56.53	4.40	-	60.93	74.00	13.07	PK
7 439.20	Н	Harmonics	49.15	4.40	-16.67	36.88	54.00	17.12	AV
9 919.10	V	Harmonics	61.81	6.20	ı	68.01	74.00	5.99	PK
9 919.10	V	Harmonics	55.23	6.20	-16.67	44.76	54.00	9.24	AV

Note:

If the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

Peak Test Result = Peak Reading + Transducer Factor

Average Test Result = Average Reading + Transducer Factor + DCCF

Where, Transducer Factor = Cable loss + Preamplifier gain + Antenna factor

DCCF = Duty Cycle Collection Factor

DCCF calculation : $20\log(\text{Duty cycle}) = 20\log(0.1464) = -16.67 \text{ dB}$

Pol.: H(Horizontal), V(Vertical)

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9. Sample Calculations

$$\begin{split} dB\mu V &= 20\ Log_{\ 10}(\mu V/m) \\ dB\mu V &= dBm + 107 \\ \mu V &= 10\ ^{(dB\mu V/20)} \end{split}$$

9.1 Example 1:

■ 20.3 MHz

Class B Limit = 250 μV = 48 $dB\mu V$

Reading $= 39.2 dB\mu V$

 $10^{~(39.2dB\mu V/20)}$ $= 91.2 \mu V$

 $=48 dB\mu V - 39.2 dB\mu V$ Margin

= 8.8 dB

9.2 Example 2:

■ 66.7 MHz

Class B Limit $=100~\mu V/m=40.0~dB\mu V/m$

 $=31.0 \text{ dB}\mu\text{V}$ Reading

Antenna Factor + Cable Loss = 5.8 dB

Total $=36.8 dB\mu V/m$

Margin $=40.0~dB\mu V/m-36.8~dB\mu V/m$

= 3.2 dB

: GETEC-C1-25-244

10. Recommendation & Conclusion

The data collected shows that the Ohsung Electronics Co., Ltd. Remote Controller (Model Name: C008) was complies with §15.247 of the FCC Rules.

- The end -

