

FCC EVALUATION REPORT FOR CERTIFICATION

FCC Subpart C (Class II Permissive Change)

Manufacturer: Ohsung Electronics Co., Ltd.

Date of Issue: May 14, 2018

#181 Gongdan-dong, Gumi-si, Gyeongsangbuk-Do

Order Number: GETEC-C1-18-235

South Korea

Test Report Number: GETEC-E3-18-015

Attn: Mr. Hak Ki, Kim / General Manager

Test Site: GUMI UNIVERSITY EMC CENTER

(Test firm Registration Number: 269701)

FCC ID. : OZ5URCTDC7100

Applicant : Ohsung Electronics Co., Ltd.

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	: Wireless Remote Controller
Type of Authority	: Certification
Model Name	: TDC-7100
Trade Mark	: URC

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 best 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,



Soon-Hoon Jeong, Senior Engineer
GUMI UNIVERSITY EMC CENTER

Reviewed by,



Hyoung-seop Kim, 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-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: Hak Ki, Kim / General Manager
Telephone Number: +82-54-468-7281 **Fax Number:** +82-54-461-8368

- **FCC ID.** OZ5URCTDC7100
- **Equipment Class** Digital Transmission System (DTS)
- **EUT Type** Wireless Remote Controller
- **Model Name** TDC-7100
- **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 v03r05(April 8,2016)
- **Dates of Test** May 05 ~ 08, 2018
- **Place of Test** **GUMI UNIVERSITY EMC CENTER**
(FCC Test firm Registration No.: 269701)
37 Yaeun-ro, Gumi-si, Gyeongsangbuk-do, 730-711, Republic of Korea
- **Test Report Number** GETEC-E3-18-015
- **Dates of Issue** May 08, 2018





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. Wireless Remote Controller (Model name: TDC-7100)**

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 kilometers away from Seoul city and 40 kilometers away from Daejeon 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.



3. Product Information

3.1 Description of EUT

The Equipment under Test (EUT) is the **Ohsung Electronics Co., Ltd. Wireless Remote Controller**
(Model Name: TDC-7100) FCC ID.: OZ5URCTDC7100

- . Equipment	: Wireless Remote Controller
- . Model name	: TDC-7100
- . Brand name	: UNIVERSAL REMOTE CONTROLLER
- . Serial number	: Proto type
- . Electrical Rating	: AC 120 V / 60 Hz
- . Manufacturer	: Ohsung electronics Co., Ltd.
- . Channel Separations	: 5 MHz
- . Type of Modulation	: DSSS, OFDM
- . Channel frequency	: 2 412 MHz ~ 2 462 MHz
- . Number of channel	: 11
- . Type of chain	: One
- . Antenna specification	: Manufacturer: Ohsung Electronics Co., Ltd. Antenna type : PCB pattern antenna Gain : 4.94 dBi
- . Hardware version	: V0.8.0.0
- . Software version	: V4.3.001.053

3.2 Definition of models

-None.



3.3 Support Equipment / Cables used

3.3.1 Used Support Equipment

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

3.3.2 System configuration

Description	Manufacturer	Model Name	S/N & FCC ID.
Wireless Remote Controller	Ohsung Electronics Co., Ltd.	TDC-7100	S/N : None. FCC ID.: None.
AC/DC Adaptor	MEILE GROUP LTD	MLF-B250502000UU	S/N: 160806001 FCC ID.: None.

3.3.3 Used Cable(s)

Cable Name	Condition	Description
Power cable	Connected between EUT and AC/DC Adaptor	1.0 m shielded with a ferrite core.

3.4 Modification Item(s)

- . None



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. Wireless Remote Controller.** comply with the requirement of §15.203 with a PCB printed 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: AC 120 V / 60 Hz
- Operating condition during the test(s) :
 - Continuous RF transmitting mode

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 v03r05 (April 08, 2016): 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
§15.207(a)	AC Power line Conducted Emissions	Pass
§15.209	Radiated Spurious Emissions	Pass



8. AC Power line Conducted emission

-Test Description

The Line conducted emission test facility is inside a 4 m \times 8 m \times 2.5 m shielded enclosure. (Test firm Registration Number: 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 \sim 40 cm.

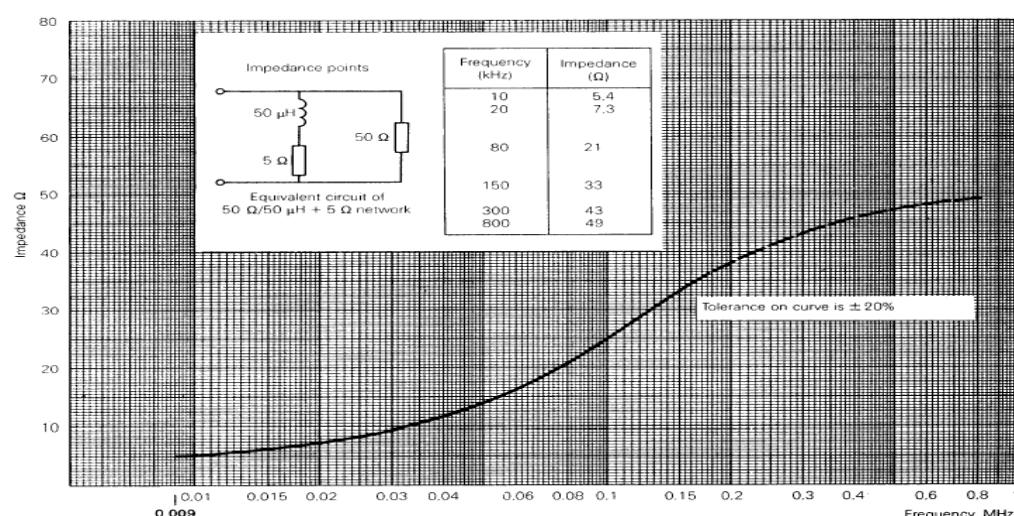


Fig 2. Impedance of LISN



8.1 Operating Environment

Temperature : 24.0 °C
Relative Humidity : 44.1 % R.H.

8.2 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.

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	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



8.4 Limit

RFI Conducted	FCC Limit(dB μ V/m) Class B	
Freq. Range	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.

8.5 Test Equipment used

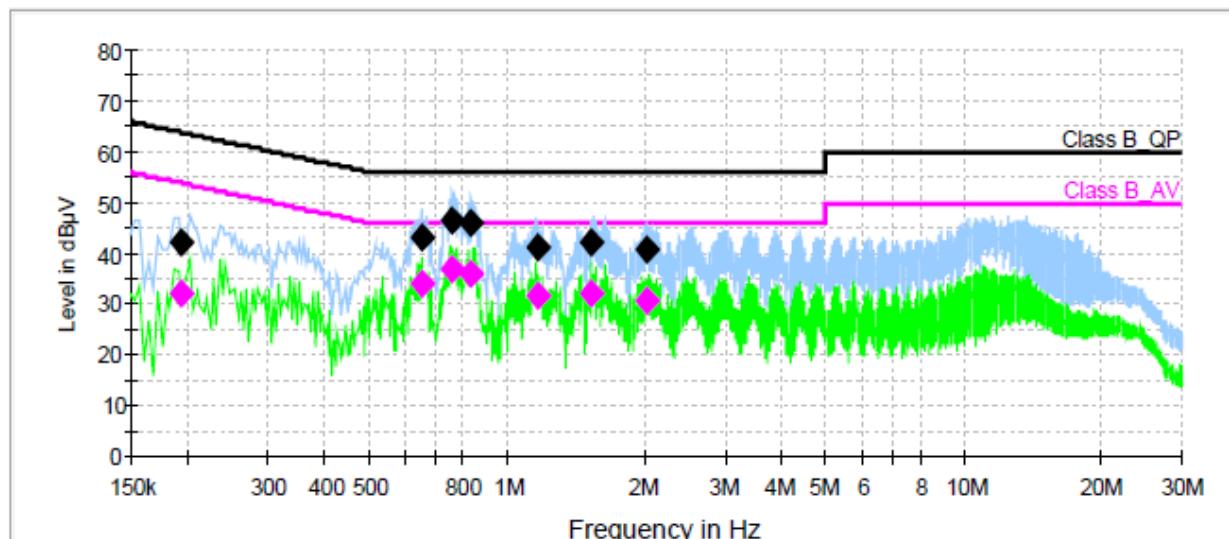
Model Name	Manufacturer	Description	Serial Number	Due to Calibration
■- ESCI	Rohde & Schwarz	EMI test receiver	100237	Apr. 16. 2019
■- ENV216	Rohde & Schwarz	LISN	100172	Apr. 12. 2019
□- ENV216	Rohde & Schwarz	LISN	100173	Apr. 12. 2019
■- EMC 32	Rohde & Schwarz	Testing Software	VER8.53	N/A

8.6 Test data for Conducted Emission

- Test Date : May 08, 2018
- Reference Standard : Part 15 Subpart C, Sec. 15.207
- Test Procedure(s) : ANSI C63.10 (2013)
- Operating Condition : RF transmitting mode
- Power Source : AC 120 V / 60 Hz
- Frequency range : 0.15 MHz ~ 30 MHz
- Line : AC Power line(Live with Neutral)
- Comment : N/A



8.7 Test Result



Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.193738	42.3	1000.0	9.000	Off	L1	9.9	21.6	63.9	
0.652488	43.1	1000.0	9.000	Off	N	9.9	12.9	56.0	
0.758425	46.6	1000.0	9.000	Off	N	9.9	9.4	56.0	
0.834050	46.0	1000.0	9.000	Off	N	9.9	10.0	56.0	
1.172669	41.1	1000.0	9.000	Off	N	9.9	14.9	56.0	
1.529719	42.1	1000.0	9.000	Off	N	9.9	13.9	56.0	
2.021319	40.7	1000.0	9.000	Off	N	9.9	15.3	56.0	

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.193738	32.2	1000.0	9.000	Off	L1	9.9	21.7	53.9	
0.652488	34.1	1000.0	9.000	Off	N	9.9	11.9	46.0	
0.758425	36.9	1000.0	9.000	Off	N	9.9	9.1	46.0	
0.834050	36.0	1000.0	9.000	Off	N	9.9	10.0	46.0	
1.172669	31.8	1000.0	9.000	Off	N	9.9	14.2	46.0	
1.529719	32.3	1000.0	9.000	Off	N	9.9	13.7	46.0	
2.021319	30.8	1000.0	9.000	Off	N	9.9	15.2	46.0	



9. Radiated Spurious

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.

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.

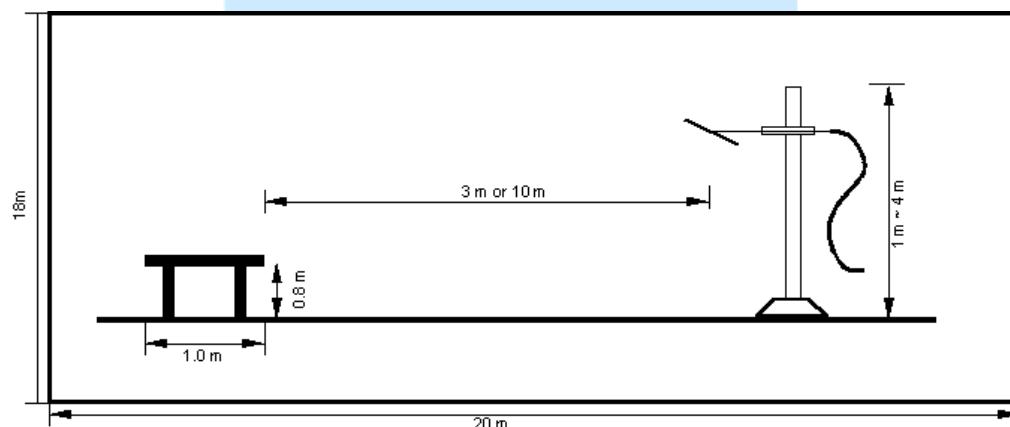


Fig 3. Dimensions of test site (Below 1GHz)

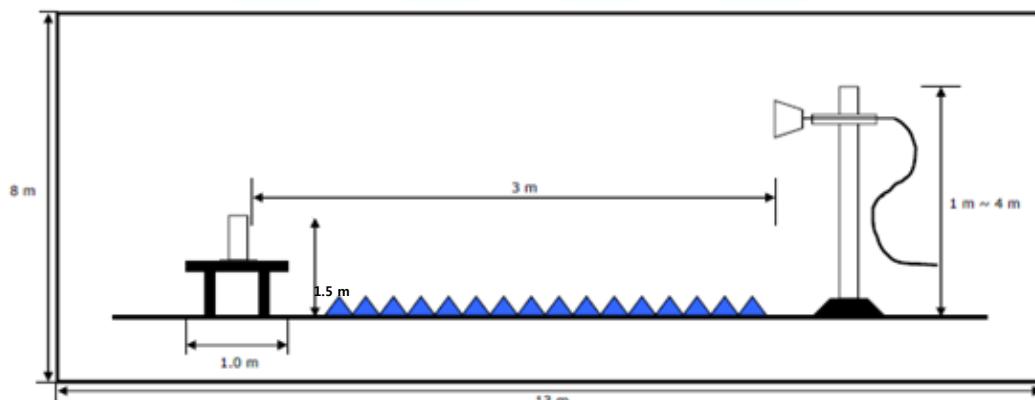


Fig 4. Dimensions of test site (Above 1GHz)



9.1 Operating environment

Temperature : 22.6 °C
Relative humidity : 31.3 % R.H.

9.2 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.

9.3 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(10m Anechoic Chamber)	Uncertainty	Remark
Radiated emission (30 MHz ~ 300 MHz, 10 m, Vertical)	3.50 dB	Confidence level of approximately 95 % (k = 2)
Radiated emission (30 MHz ~ 300 MHz, 10 m, Horizontal)	3.73 dB	Confidence level of approximately 95 % (k = 2)
Radiated emission (300 MHz ~ 1 000 MHz, 10 m, Vertical)	3.67 dB	Confidence level of approximately 95 % (k = 2)
Radiated emission (300 MHz ~ 1 000 MHz, 10 m, Horizontal)	3.64 dB	Confidence level of approximately 95 % (k = 2)
Radiated emission (1 000 MHz ~ 6 000 MHz, 3 m, V/H)	4.39 dB	Confidence level of approximately 95 % (k = 2)
Radiated emission (6 000 MHz ~ 18 000 MHz, 3 m, V/H)	4.50 dB	Confidence level of approximately 95 % (k = 2)
Test items(3m Anechoic Chamber)	Uncertainty	Remark
Radiated emission (1 000 MHz ~ 6 000 MHz, 3 m, V/H)	4.53 dB	Confidence level of approximately 95 % (k = 2)
Radiated emission (6 000 MHz ~ 18 000 MHz, 3 m, V/H)	4.55 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



9.4 Limit

20 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.

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

9.5 Test Equipment used

Model Name	Manufacturer	Description	Serial Number	Due to Calibration
■ - ESR7	Rohde & Schwarz	EMI Test Receiver	101382	Apr. 17, 2019
■ - ESU40	Rohde & Schwarz	EMI Test Receiver	100266	Apr. 17, 2019
■ - VULB9160	Rohde & Schwarz	Biconical Antenna	3099	Sep. 29, 2019
■ - BBHA9120D	Schwarzbeck	Horn ANT	207	Sep. 29, 2018
■ - AFS 44 00101800-25-10P-44	MITEQ	Preamplifier	1258943	Apr. 18, 2019
■ - CO3000	Innco system GmbH	Position Controller	CO3000/779/33050314/L	N/A
■ - DT3000	Innco system GmbH	Turntable	1280314	N/A
■ - MA4000-EP	Innco system GmbH	Antenna Mast	4420314	N/A
■ - MA4640-XP-ET	HD GmbH	Antenna Mast	MA4640/558	N/A
■ - TK-PA06S	Testek	Low Noise Amplifier	170038-L	Jan. 15, 2019
■ - MCU066	maturo GmbH	Position Controller	1390306	N/A
■ - TT2.5SI	maturo GmbH	Turntable	1390307	N/A
■ - AM 4.0	maturo GmbH	Antenna Mast	1390308	N/A
■ - EMC 32	Rohde & Schwarz	Testing Software	VER9.15	N/A

9.6 Test data for Radiated Spurious Emission

- Test Date : May 05 ~ 14, 2018
- Reference Standard : Part 15 Subpart C, Sec. 15.209
- Measuring Distance : 10 m / 3 m
- Resolution Bandwidth : 120 kHz(30 MHz ~ 1GHz) / 1 MHz(Above 1GHz)
- Detector mode : Quasi Peak detector mode / Peak detector mode / Average detector mode
- Power Source : AC 120 V / 60 Hz
- Note : The highest frequency of the internal source of the EUT is 2 462 MHz.
 The measurement was made up to 12.5 GHz.

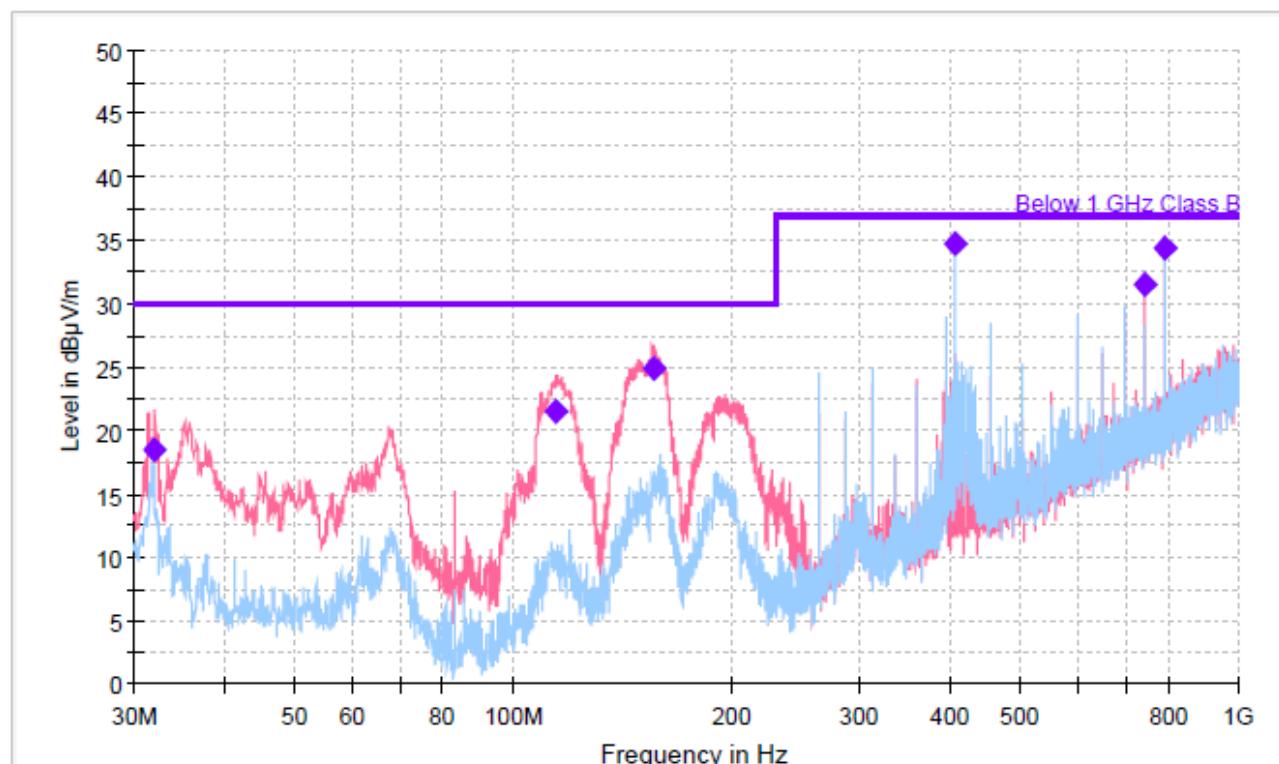




Radiated Spurious Emission (9 kHz to 30 MHz)

* The emission level was not found.

Radiated Spurious Emission (30 MHz to 1 000 MHz)



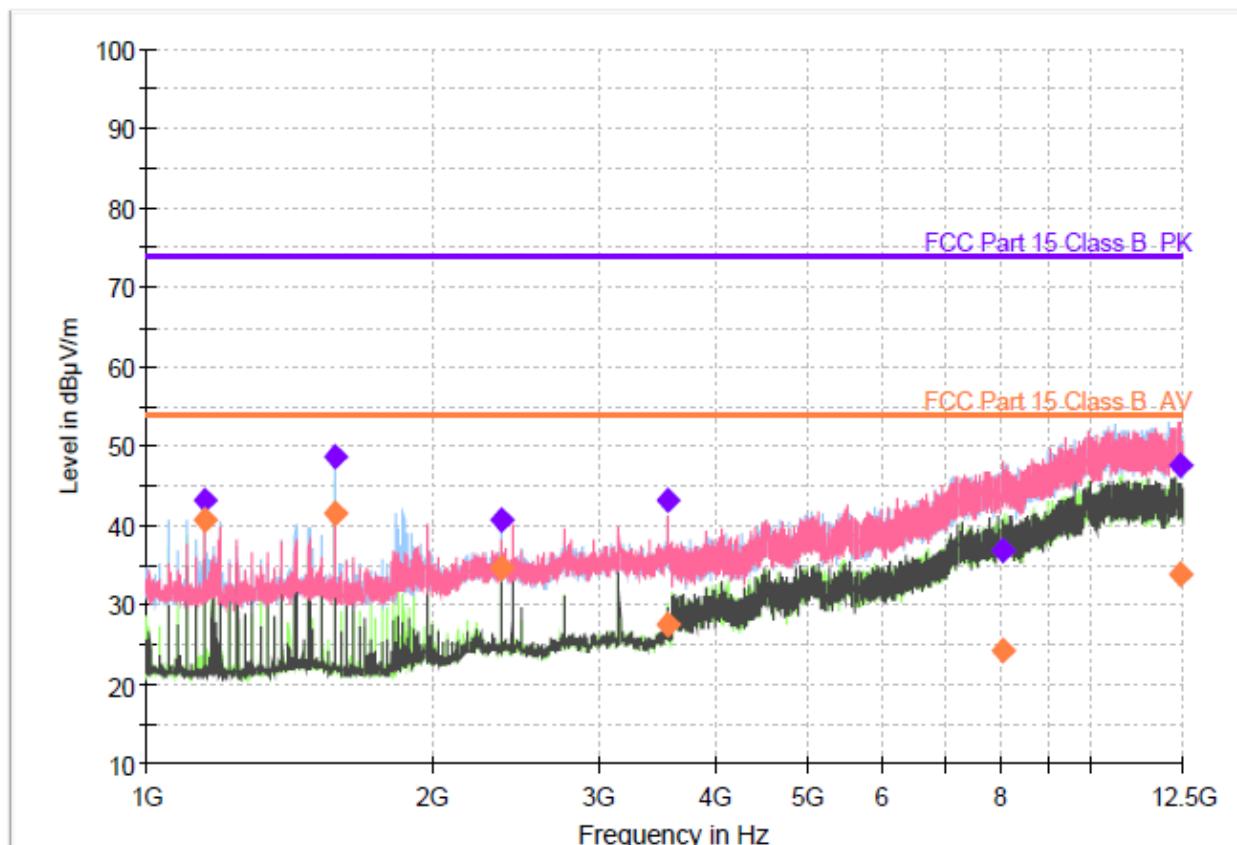
Legend:

- Preview Result 1V-PK+ (Red line)
- Preview Result 1H-PK+ (Blue line)
- Below 1 GHz Class B (Purple line)
- Final_Result_QPK (Blue diamond)

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.875	18.42	30.00	11.58	1000.0	120.000	375.0	V	149.0	-21.9
114.344	21.58	30.00	8.42	1000.0	120.000	180.3	V	171.0	-22.3
156.499	24.89	30.00	5.11	1000.0	120.000	174.8	V	295.0	-19.9
408.001	34.80	37.00	2.20	1000.0	120.000	201.7	H	294.0	-15.1
743.997	31.53	37.00	5.47	1000.0	120.000	225.0	V	97.0	-7.0
792.004	34.40	37.00	2.80	1000.0	120.000	216.7	V	309.0	-6.1



Radiated Spurious Emission (1 GHz to 12.5 GHz)



Legend: Preview Result 2H-AVG, Preview Result 1V-PK+, Preview Result 2V-AVG
Preview Result 1H-PK+, FCC Part 15 Class B_PK, FCC Part 15 Class B_AV
Final_Result PK+, Final_Result CAV

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1152.00	---	40.84	54.00	13.16	1000.0	1000.000	165.0	H	144.0	-13.5
1152.00	43.23	---	74.00	30.77	1000.0	1000.000	165.0	H	144.0	-13.5
1584.02	---	41.60	54.00	12.40	1000.0	1000.000	175.0	H	221.0	-12.4
1584.02	48.62	---	74.00	25.38	1000.0	1000.000	175.0	H	221.0	-12.4
2375.98	40.69	---	74.00	33.31	1000.0	1000.000	157.0	H	144.0	-9.4
2375.98	---	34.63	54.00	19.37	1000.0	1000.000	157.0	H	144.0	-9.4
3564.23	---	27.55	54.00	26.45	1000.0	1000.000	175.0	V	185.0	-7.4
3564.23	43.29	---	74.00	30.71	1000.0	1000.000	175.0	V	185.0	-7.4
8075.35	36.88	---	74.00	37.12	1000.0	1000.000	145.0	V	294.0	7.0
8075.35	---	24.19	54.00	29.81	1000.0	1000.000	145.0	V	294.0	7.0
12443.22	---	33.97	54.00	20.03	1000.0	1000.000	145.0	V	197.0	13.0
12443.22	47.55	---	74.00	26.45	1000.0	1000.000	145.0	V	197.0	13.0

EUT Type: Wireless Remote Controller

REF ID: OZ5URCTDC7100

FCC ID.: OZ5URCTDC7100



10. Sample Calculations

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

10.1 Example 1 :

■ 20.3 MHz

Class B Limit = 250 μV = 48 dB μV

Reading = 39.2 dB μV

$10^{(39.2\text{dB}\mu\text{V}/20)}$

= 91.2 μV

Margin

= 48 dB μV - 39.2 dB μV

= 8.8 dB

10.2 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 dB μV

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



11. Recommendation & Conclusion

The data collected shows that the **Ohsung Electronics Co., Ltd. Wireless Remote Controller (Model Name: TDC-7100)** was complies with §15.207(a), §15.209 of the FCC Rules.

- The end -

