

# RF Exposure Evaluation Report

Product Name	ROG CETRA TRUE WIRELESS
Model No.	ROG CETRA TRUE WIRELESS
FCC ID.	2A3PJ-0RCTW

Applicant	PALM GARDEN ENTERPRISES CORP.
Address	4F, 540-1, Zhong Zheng Rd., Xindian Dist., New Taipei City 231, Taiwan

Date of Receipt	Nov. 20, 2021
Date of Declaration	Jan. 26, 2022
Report No.	21B0790R-RFUSMPEV01-A
Report Version	V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Issued Date: Jan. 26, 2022  
 Report No.: 21B0790R-RFUSMPEV01-A



Product Name	ROG CETRA TRUE WIRELESS	
Applicant	PALM GARDEN ENTERPRISES CORP.	
Address	4F, 540-1, Zhong Zheng Rd., Xindian Dist., New Taipei City 231, Taiwan	
Manufacturer	PALM GARDEN ENTERPRISES CORP.	
Model No.	ROG CETRA TRUE WIRELESS	
FCC ID.	2A3PJ-0RCTW	
EUT Rated Voltage	DC 5V (Power by USB) or DC 3.7V (Power by Battery)	
EUT Test Voltage	DC 5V (Power by USB)	
Trade Name	ASUS	
Applicable Standard	KDB 447498 D01 v06	<input checked="" type="checkbox"/> For Field Strength Test
Test Result	Complied	

Documented By :



( Senior Project Specialist / Joanne Lin )

Tested By :



( Senior Engineer / Alan Chen )

Approved By :



( Manager / Tim Sung )

## Revision History

Report No.	Version	Description	Issued Date
21B0790R-RFUSMPEV01-A	V1.0	Initial issue of report.	2022-01-26

## 1. Test Facility

**USA : FCC Registration Number: TW0033**

**Canada : IC Registration Number: 26930**

**Site Description : Accredited by TAF**  
**Accredited Number: 3023**

**Test Laboratory : DEKRA Testing and Certification Co., Ltd**

**Address : No. 5-22, Ruishukeng Linkou District, New Taipei City, 24451, Taiwan**

**Performed Location : No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan, R.O.C.**

**Phone number : +886-3-275-7255**

**Fax number : +866-3-327-8031**

**Email address : [info.tw@dekra.com](mailto:info.tw@dekra.com)**

**Website : <http://www.dekra.com.tw>**

## 2. RF Exposure Evaluation

### 2.1. Test Equipment

Equipment		Manufacturer	Model No./Serial No.	Specification	Last Cal.
X	EM Field Meter	Wavecontrol	SMP2 / 18SN0746	1 Hz - 60 GHz	Apr., 2021
X	Isotropic EM Field Probe	Wavecontrol	WP400-3 / 18WP120014	1 Hz - 400 KHz	Apr., 2021
X	Isotropic EM Field Probe	Wavecontrol	WP400 / 18WP100392	1 Hz - 400 KHz	Apr., 2021
X	Isotropic EM Field Probe	Wavecontrol	WPF8 / 18WP040835	100 KHz - 8 GHz	Apr., 2021

### 2.2. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)  
 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/F	4.89/F	*(900/F <sup>2</sup> )	6
30-300	61.4	0.163	1	6
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/F	2.19/F	*(180/F <sup>2</sup> )	30
300-1500	27.5	0.073	0.2	30
300-1500	--	--	F/1500	30
1500-100,000	--	--	1	30

Note:

1. RF Exposure evaluation should be conducted assuming a separation distance of 10 cm
2. The EUT is including four models for different marketing requirement.

### 2.3. Test Procedure

The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils per the FCC 's request. (reference KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01)

The temperature and related humidity: 18°C and 62% RH.

## 2.4. Test Result of RF Exposure Evaluation for WPT

<i>Items to be covered</i>	<i>Answer from applicant</i>
Power transfer frequency is less than 1 MHz.	Operation frequency range is 128kHz.
Output power from each primary coil is less than or equal to 15 watts.	Output Power equal to 15W.
The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.	Yes, allow coupling only between individual pairs of coils.
Client device is placed directly in contact with the transmitter.	Yes, meet the requirements.
Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Yes, meet the requirements.
The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.	<p>*Electric Field Strength (V/m) @15cm = 0.56 V/m (&lt; 307 V/m) MPE Limit (614 V/m) *50% =307 V/m</p> <p>*Magnetic Field Strength (A/m) @20cm =0.04 A/m (&lt; 0.815 A/m ) MPE Limit (1.63 A/m) *50% = 0.815 A/m</p>

Product : ROG CETRA TRUE WIRELESS  
 Test Item : RF Exposure Evaluation  
 Test Site : 966-3  
 Test Date : 2022/01/10

#### E-Field Emissions

Test Position	Frequency (MHz)	Measurement Level @15cm (V/m)	Limit (V/m)	50% Limit (V/m)	Result
Side 1	0.12800	0.560	614.0	307.0	PASS
Side 2	0.12800	0.540	614.0	307.0	PASS
Side 3	0.12800	0.500	614.0	307.0	PASS
Side 4	0.12800	0.480	614.0	307.0	PASS

Test Position	Frequency (MHz)	Measurement Level @20cm (V/m)	Limit (V/m)	50% Limit (V/m)	Result
Top	0.12800	0.450	614.0	307.0	PASS
Bottom	0.12800	0.460	614.0	307.0	PASS

#### H-Field Emissions

Test Position	Frequency (MHz)	Measurement Level @15cm (A/m)	Limit (A/m)	50% Limit (A/m)	Result
Side 1	0.12800	0.040	1.63	0.815	PASS
Side 2	0.12800	0.030	1.63	0.815	PASS
Side 3	0.12800	0.030	1.63	0.815	PASS
Side 4	0.12800	0.030	1.63	0.815	PASS

Test Position	Frequency (MHz)	Measurement Level @20cm (V/m)	Limit (V/m)	50% Limit (V/m)	Result
Top	0.12800	0.040	1.63	0.815	PASS
Bottom	0.12800	0.040	1.63	0.815	PASS