

RF Exposure Evaluation Report

Product Name : Wireless Remote Control

Model No. : 883891

FCC ID : X96883891

Applicant : COMEUP INDUSTRIES INC.

Address : No.139, Jieyukeng Rd., Ruifang Dist., New Taipei City 22453, Taiwan

Date of Receipt : Dec. 15, 2021

Date of Declaration : Feb. 23, 2022

Report No. : 21C0548R-RFUSMPEV02-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: Feb. 23, 2022

Report No.: 21C0548R-RFUSMPEV02-A



Product Name	Wireless Remote Control	
Applicant	COMEUP INDUSTRIES INC.	
Address	No.139, Jieyukeng Rd., Ruifang Dist., New Taipei City 22453, Taiwan	
Manufacturer	COMEUP INDUSTRIES INC.	
Model No.	883891	
FCC ID.	X96883891	
Trade Name	COMEUP	
Applicable Standard	KDB 447498 D01 v06	☒ Minimum test separation distance ≥ 20 cm ☐ For low power devices
Test Result	Complied	

Documented By : Jinn Chen
(Supervisor / Jinn Chen)

Tested By : Jack Hsu
(Senior Engineer / Jack Hsu)

Approved By : Tim Sung
(Manager / Tim Sung)

Revision History

Report No.	Version	Description	Issued Date
21C0548R-RFUSMPEV02-A	V1.0	Initial issue of report.	Feb. 23, 2022

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Wireless Remote Control
Trade Name	COMEUP
Model No.	883891
FCC ID.	X96883891
Frequency Range	2402 – 2480MHz
Channel Number	79CH
Type of Modulation	GFSK
Channel Control	Auto
Antenna Type	N/A
Antenna Gain	Refer to the table “Antenna List”

1.2. Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	SHIN WUU TECHNIQUE CORP.	SW-032T-S	N/A	-0.51dBi for 2.4 GHz

1.3. 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

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

2. RF Exposure Evaluation

2.1. Standard Applicable

According to KDB 447498 D01 (7.1), A minimum test separation distance ≥ 20 cm is required between the antenna and radiating structures of the device and nearby persons to apply mobile device exposure limits.

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 ²)	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	F/1500	6
1500-100,000	--	--	1	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is ≤ 1.0

2.3. Test Result of RF Exposure Evaluation

Product : Wireless Remote Control
Test Item : RF Exposure Evaluation

2.4GHz Peak Gain: -0.51dBi

Band	Frequency (MHz)	Conducted maximum Peak Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	Pass/Fail
2.4GHz	2480	-6.92	0.203	0.00003	1	Pass

Note: The conducted output power is refer to report No.: 21C0548R-RFUSOTHV05-A from the DEKRA.