RF Exposure Evaluation Report

Product Name : Wireless Remote Control

Model No. : 884242

FCC ID : X96884242

Applicant : Comeup Industrie Inc.

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

Date of Receipt : Aug. 26, 2022

Date of Declaration : Dec. 30, 2022

Report No. : 2280835R-RFUSMPEV02-A

Report Version : V1.0

Testing Laboratory
3023

Product Name	Wireless Remote Control	
Applicant	Comeup Industrie Inc.	
Address	No.139, Jieyukeng Rd., Ruifang Dist., New Taipei City 22453, Taiwan	
Manufacturer	Comeup Industrie Inc.	
Model No.	884242	
FCC ID	X96884242	
Trade Name	COMEUP	
Applicable Standard	KDB 447498 D01 v06	☒ Minimum test separation distance ≥ 20 cm ☐ For low power devices
Test Result	Complied	

Documented By : Joanne Lin

(Senior Project Specialist / Joanne Lin)

Tested By : Bill Lin

(Senior Engineer / Bill Lin)

Approved By : Alan Chen

(Senior Engineer / Alan Chen)

Revision History

Report No.	Version	Description	Issued Date
2280835R-RFUSMPEV02-A	V1.0	Initial issue of report.	Dec. 30, 2022

1. General Information

1.1. EUT Description

Product Name	Wireless Remote Control
Trade Name	COMEUP
Model No.	884242
FCC ID	X96884242

Note: For more detailed information please refer to report No.: 2280835R-RFUSOTHV05-A.

2. Test Facility

USA	:	FCC Registration Number: TW0033
Canada	:	CAB Identifier Number: TW3023 / Company 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	:	+886-3-327-8031
Email Address	:	info.tw@dekra.com
Website	:	http://www.dekra.com.tw

3. RF Exposure Evaluation

3.1. 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.

3.2. 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: $Pd = (Pout*G)/(4*pi*r^2)$

Where

Pd = power density in mW/cm^2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 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

3.3. Test Result of RF Exposure Evaluation

Product : Wireless Remote Control
Test Item : RF Exposure Evaluation

Band	Frequency (MHz)	E.I.R.P (dBm)	E.I.R.P (mW)	Power Density at R = 20 cm (mW/cm2)	Limit (mW/cm2)
2.4 GHz Wireless	2441	3.440	2.208	0.0004	1

Note: The conducted output power is refer to report No.: 2280835R-RFUSOTHV05-A from the DEKRA.

Results	PASS