

EMF TEST REPORT

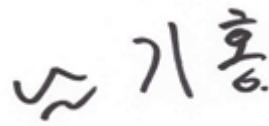
Test Report No. : OT-218-RWD-088
Reception No. : 2104002895
Applicant : ACE LIFE CO.,LTD.
Address : 5, Bongsin-ro 229beon-gil, Dunpo-myeon, Asan-si, Chungcheongnam-do, Republic of Korea
Manufacturer : ACE LIFE CO.,LTD.
Address : 5, Bongsin-ro 229beon-gil, Dunpo-myeon, Asan-si, Chungcheongnam-do, Republic of Korea
Type of Equipment : remote control
FCC ID. : 2AY48TUS-REM21
Model Name : TUS-REM21
Serial number : N/A
Total page of Report : 7 pages (including this page)
Date of Incoming : July 19, 2021
Date of issue : August 26, 2021

SUMMARY

The equipment complies with the regulation; **FCC PART 15 SUBPART C Section 15.247**

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.



Tested by

/ Ju Yun Park / Manager
ONETECH Corp.

Reviewed by

/ Ha-Ram Lee / Manager
ONETECH Corp.

Approved by

/ Ki-Hong, Nam / General Manager
ONETECH Corp.

This Report is not correlated with the authentication of KOLAS

It should not be reproduced except in full, without the written approval of ONETECH Corp.

OTC-TRF-RF-001(0)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

CONTENTS

	PAGE
1. VERIFICATION OF COMPLIANCE	4
2. GENERAL INFORMATION	5
2.1 PRODUCT DESCRIPTION.....	5
2.2 ALTERNATIVE TYPE(S)/MODEL(S); ALSO COVERED BY THIS TEST REPORT.....	5
3. EUT MODIFICATIONS.....	5
4. RF EXPOSURE EVALUATION	6
4.1 STANDARD APPLICABLE	6
4.2 EUT DESCRIPTION.....	6
4.3 TEST RESULT OF SAR EXCLUSION FOR PORTABLE DEVICES	7

Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-218-RWD-088	August 26, 2021	Initial Release	All

1. VERIFICATION OF COMPLIANCE

Applicant : ACE LIFE CO.,LTD.

Address : 5, Bongsin-ro 229beon-gil, Dunpo-myeon, Asan-si, Chungcheongnam-do, Republic of Korea

Contact Person : Byoung Ho Park / Manager

Telephone No. : 82-41-425-0116

FCC ID : 2AY48TUS-REM21

Model Name : TUS-REM21

Brand Name : TUSHY Ace

Serial Number : N/A

Date : August 26, 2021

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	remote control
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2013
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT	Certification
AUTHORIZATION REQUESTED	
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247 KDB 558074 D01 15.247 Meas Guidance v05r02
Modifications on the Equipment to Achieve Compliance	None
Final Test was Conducted On	3 m, Semi Anechoic Chamber

- The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

2. GENERAL INFORMATION

2.1 Product Description

The ACE LIFE CO.,LTD., Model TUS-REM21 (referred to as the EUT in this report) is a remote control. The product specification described herein was obtained from product data sheet or user's manual.

Device Type	remote control
Operating Frequency	2 423 MHz (Tx Only)
RF Output Power	-8.72 dBm
Number of Channel	1 Channels
Modulation Type	GFSK
Antenna Type	PCB Antenna
Antenna Gain	-0.31 dBi
Rated Supply Voltage	DC 4.5 V
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	16 MHz

2.2 Alternative type(s)/model(s); also covered by this test report.

- None

3. EUT MODIFICATIONS

- None

4. RF Exposure Evaluation

4.1 Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to the procedure, KDB 447498 D06, the standalone SAR test exclusion threshold is

$[(\text{Max. Power of channel, including tune-up tolerance, mW}) / (\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 3$

4.2 EUT Description

Kind of EUT	remote control
Device Category	<input checked="" type="checkbox"/> Portable (< 20 cm separation) <input type="checkbox"/> Mobile (> 20 cm separation) <input type="checkbox"/> Others
Exposure	<input type="checkbox"/> MPE
Evaluation Applied	<input type="checkbox"/> SAR <input checked="" type="checkbox"/> SAR Exemption

4.3 Test Result of SAR Exclusion for Portable Devices

$$[(\text{Max. Power of channel, including tune-up tolerance, mW}) / (\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] \\ = (0.15/5) \times \sqrt{2.423} = 0.047 < 3$$

Conclusion: The SAR test exclusion threshold is less than 3, so the device meets the RF Exposure Requirement and excluded SAR Test.

Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Separation distance (mm)	RF exposure
2 423.00	-8.72 ± 0.5	-8.22	0.15	5	0.047