TEST REPORT

Product Name	:	Remote controller
Model Number	:	EL1039
FCC ID	:	2AQ6Y-EL1039

Prepared for	:	GAZCO LIMITED
Address	:	Osprey Road, Sowton Industrial, Estate, Exeter Devon, UNITED KINGDOM
Prepared by	:	EMTEK (DONGGUAN) CO., LTD.
Address	:	-1&2F., Building 2, Zone A, Zhongda Marine Biotechnology Research and Development Base, No. 9, Xincheng Avenue, Songshanhu High-technology Industrial Development Zone, Dongguan, Guangdong, China Tel : +86-0769-22807078 Fax: +86-0769-22807079

Report Number	:	EDG2212150023E00502R
Date(s) of Tests	:	December 15, 2022 to January 06, 2023
Date of Issue	:	January 09, 2023

TABLE OF CONTENT

TEST REPORT.....1

1. FACILITIES AND ACCREDITATIONS.....5

1.1. TEST FACILITY.....5

1.2. LABORATORY ACCREDITATIONS AND LISTINGS.....5

2. GENERAL PRODUCT INFORMATION.....6

3. LIMIT.....7

4. TEST RESULTS.....8

Test Report Description

Applicant	:	GAZCO LIMITED
Address	:	Osprey Road, Sowton Industrial, Estate, Exeter Devon, UNITED KINGDOM
Manufacturer	:	Ningbo Richen Electrical Appliance Co., Ltd.
Address	:	No.19 Yongdinghe Road,Xiapu,Beilun,Ningbo,315807 Zhejiang,P.R.China
EUT	:	Remote controller
Model Name	:	EL1039
Trademark	:	N/A

The device described above is tested by EMTEK (DONGGUAN) CO., LTD. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. This report shows the EUT to be technically compliant with the FCC 1.1310 and KDB 447498 D01 General RF Exposure Guidance v07 requirements. The test results are contained in this report and EMTEK (DONGGUAN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests.

This report applies to above tested sample only and shall not be reproduced in part without written approval of EMTEK (DONGGUAN) CO., LTD.

Date of Test	:	December 15, 2022 to January 06, 2023
Prepared by	:	Warren Deng Warren deng /Engineer
Reviewer	:	Tim Dong Tim Dong /Supervisor
Approved & Authorized Signer	:	Sam Lv Sam Lv /Manager

EMTEK (DONGGUAN) CO., LTD. TESTING

Modified Information

Version	Report No.	Revision Date	Summary
/	EDG2212150023E00502R	/	Original Report

1. Facilities And Accreditations

1.1. Test Facility

All measurement facilities used to collect the measurement data are located at

-1&2F., Building 2, Zone A, Zhongda Marine Biotechnology Research and Development Base, No. 9, Xincheng Avenue, Songshanhu High-technology Industrial Development Zone, Dongguan, Guangdong, China
The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 32.

1.2. LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab. : Accredited by CNAS, 2020.08.27
The certificate is valid until 2024.07.05
The Laboratory has been assessed and proved to be in compliance with CNAS/CL01:2018
The Certificate Registration Number is L3150

Accredited by FCC
Designation Number: CN1300
Test Firm Registration Number: 945551

Accredited by A2LA, April 05, 2021
The Certificate Registration Number is 4321.02

Accredited by Industry Canada
The Certificate Registration Number is CN0113

Name of Firm : EMTEK (DONGGUAN) CO., LTD.
Site Location : -1&2F., Building 2, Zone A, Zhongda Marine Biotechnology Research and Development Base, No. 9, Xincheng Avenue, Songshanhu High-technology Industrial Development Zone, Dongguan, Guangdong, China

2. General Product Information

Characteristics	Description
Product:	Remote controller
Model Number:	EL1039
Sample Number:	1#
Modulation:	FSK modulation
Operating Frequency:	433.92MHz
Number of Channels:	1 channel
Max Transmit Power:	85.05 dBuV/m
Antenna Type :	PCB Antenna
Antenna Gain:	0.0 dBi
Power supply:	DC 3V for Battery
Temperature Range:	-40°C ~ +85°C
Date of Received:	December 15, 2022

Note: for more details, please refer to the User's manual of the EUT.

3. Limit

According to §15.249(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.
According to KDB447498 D01 General RF Exposure Guidance V07
The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] * [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where
f(GHz) is the RF channel transmit frequency in GHz；
Power and distance are rounded to the nearest mW and mm before calculation；
The result is rounded to one decimal place for comparison；
The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.
We use 5mm as separation distance to calculate.

4. Test Results

Maximum measured transmitter power:
EIRP=E+20log(d)-104.7=85.05+9.54-104.7=-10.11 dBm

Transmit Frequency (MHz)	Mode	EIRP Power (dBm)	tune up maximum power(dBm)	Result calculation	1-g SAR
433.92	FSK	-10.11 dBm	-10.0	0.03	3

Conclusion:
For the max result : 0.03≤ 3.0 for 1-g SAR extremity SAR, No SAR is required.

*** End of Report ***

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