

TEST REPORT

Applicant Name: Shenzhen TCL Smart Home Technology Co., Ltd.
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Xili Street, Nanshan District, Shenzhen, China
Report Number: 2604W06585E-RF-00B
FCC ID: 2BG9T-TCLK1PL

Test Standard (s)

47 CFR §2.1091

Sample Description

Product Name: K1 Series Smart Knob
Model No.: K1 Plus
Trade Mark: TCL
Received Date: 2026-08-20
Report Date: 2026-09-03

Test Result:	The EUT complied with the standards above.
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Prepared and Checked By:

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Approved By:

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Note: This report must not be used by the customer to claim product certification, approval, or endorsement by A2LA, or any agency of the Federal Government. The information marked "#" is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included but no need marked. This report cannot be reproduced except in full, without prior written approval of the Company. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2604W06585E-RF-00B	Original Report	2026-09-03

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Name	K1 Series Smart Knob
Tested Model	K1 Plus
Voltage Range [#]	DC 6V from battery(1.5V AA battery*4)

Frequency Range	BLE 1M & 2M: 2402-2480MHz
Maximum Conducted Output Power(Peak) (actual test result)	2.84 dBm
Antenna Specification [#]	PCB Antenna, Gain: -1.24dBi (It is provided by the applicant.)
Sample Serial Number	3S9S-1 (Assigned by BACL, Shenzhen, Guangming)
Sample/EUT Status	Good condition

Objective

This test report is in accordance with Part 2-Subpart J, Radiofrequency Radiation Exposure of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with 47 CFR §2.1091 rules.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen, Guangming) to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA).The Certificate Number is 4297.01.

MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (Minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

MPE Calculated Formulary:

- Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Calculated Result

Radio	Frequency (MHz)	Antenna Gain [#]		Tune up conducted power [#]		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
BLE	2402-2480	-1.24	0.75	3	2.00	20	0.000298	1.00

Note: The tune-up power and antenna gain are declared by the applicant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

EXHIBIT A-EUT PHOTOGRAPHS

Please refer to the Attachment No.1 2604W06585E-RF EUT External Photos and Attachment No.2 2604W06585E-RF EUT Internal Photos.

***** END OF REPORT *****