No. 25T04Z100410-001

for

TCL Communication Ltd.

Projector

Model Name: P30D8F

Hardware Version: TP3_M_F

Software Version: V11

FCC ID: 2ACCJB234

Issued Date: 2025-07-11

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

CTTL, Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Issue Date	Description
25T04Z100410-001	Rev.0	2025-07-11	Initial creation of test report

CONTENTS

1 Test Laboratory

1.1 Testing Location

Company Name:	CTTL
Address:	No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191

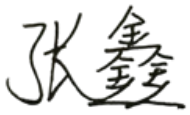
1.2 Testing Environment

Temperature:	Min. = 18°C, Max. = 25°C
Relative humidity:	Min. = 30%, Max. = 70%
Ground system resistance:	< 0.5 Ω
Ambient noise & Reflection:	< 0.012 W/kg

1.3 Project Data

Testing Start Date:	2025-7-11
Testing End Date:	2025-7-11

1.4 Signature

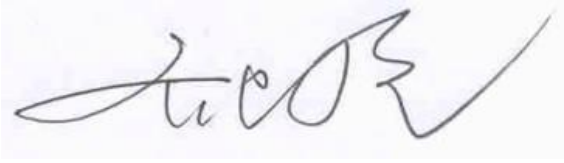


Zhang Xin

(Prepared this test report)

Lin Jun

(Reviewed this test report)



Qi Dianyuan

Deputy Director of the laboratory

(Approved this test report)

2 Client Information

2.1 Applicant Information

Company Name:	TCL Communication Ltd.
Address /Post:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
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2.2 Manufacturer Information

Company Name:	TCL Communication Ltd.
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Contact:	Ting Wang
Email:	ting.wang.hz@tcl.com
Telephone:	+86 752 2639091
Fax:	/

3 Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1 About EUT

Description	Projector
Model name	P30D8F
Operation mode	BT,WIFI2.4G,WIFI5G

3.2 Internal Identification of EUT

EUT ID*	IMEI	HW Version	SW Version
EUT1	/	TP3_M_F	V11

*EUT ID: is used to identify the test sample in the lab internally.

3.3 Internal Identification of AE

AE ID*	**Description**	**SN**
AE1	/	/

*AE ID: is used to identify the test sample in the lab internally.

4 Test Methodology_

4.1 Applicable Limit Regulations

ANSI C95.1–1992: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

4.2 Applicable Measurement Standards

KDB 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies

Standard for uncontrolled environment requires the RF-exposure value in W/m2 unit, therefore the MPE limit value determined in mW/cm2 unit, should be multiplied by 10 to have the required unit. The MPE limits are the same like on FCC § 1.1301 at table 1.

5 RF Exposure Limit

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$, $\|H\|^2$ or S (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

Friis transmission formula: $P_d = \frac{P_{out} * G}{4 * \Pi * r^2}$

where

P_d=power density (mW/cm^2)
P_{out} = output power to antenna (mW)
G = gain of antenna (linear scale)
r = distance between antenna and observation point (cm)

6 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as Mobile Device.

7 Test Results

7.1 The maximum antenna gain

The maximum gain for each frequency band is:

Frequency band	Antenna gain
BT	1
WIFI2.4G ANT0	0.5
WIFI2.4G ANT1	0.6
WIFI2.4G MIMO	0.6
WIFI5G ANT0	1
WIFI5G ANT1	1.2
WIFI5G MIMO	1.2

7.2 The maximum rated power limits

Maximum peak output power for antenna:

Frequency band	Maximum Rated Power (dBm)
BT	11
WIFI2.4G ANT0	13
WIFI2.4G ANT1	13
WIFI2.4G MIMO	11
WIFI5G ANT0	15.5
WIFI5G ANT1	15.5
WIFI5G MIMO	18.5

7.3 Output Power Into Antenna & RF Exposure value at distance 20cm

The worst cases conducted output power for every frequency band is:

Frequency band	Maximum Rated Power (dBm)	Antenna gain	d (cm)	Calculation (mW/cm^2)	Limit (mW/cm^2)
BT	11	1	20	0.003	1.000
WIFI2.4G ANT0	13	0.5	20	0.004	1.000
WIFI2.4G ANT1	13	0.6	20	0.005	1.000
WIFI2.4G MIMO	11	0.6	20	0.003	1.000
WIFI5G ANT0	15.5	1	20	0.009	1.000
WIFI5G ANT1	15.5	1.2	20	0.009	1.000
WIFI5G MIMO	18.5	1.2	20	0.019	1.000

According above test result, the device complies with the exposure requirements.

8 Simultaneous Transmission

The Summation of Exposure Ratio value = Main Antenna(Calculation/Limit)+ WIFI Antenna(Calculation/Limit)

Table 8.1: The Simultaneous Transmission for TER

High SAR value	WIFI Antenna(mW/cm2)				SUM	Limited
	Calculation	Limit	Calculation	Limit		
	0.019 WIFI5G	1	0.003 BT	1	0.02	1

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