



No. I21Z61156-SEM01

for

TCL Communication Ltd.

HOME PHONE 42

Model Name: T606HPDL

Hardware Version: V05

Software Version:

HP42UC_SD_CERT_FCC_GCF_PTCRB_01.00_01

FCC ID: 2ACCJB180

Issued Date: 2022-7-12

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:

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No.I22Z61169-SEM01

REPORT HISTORY

Report Number	Revision	Issue Date	Description
I22Z61169-SEM01	Rev.0	2022-7-12	Initial creation of test report

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1. Test Laboratory

1.1. Testing Location

Company Name: CTTL(Shouxiang)
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Beijing, P. R. China100191
Postal Code: 100191
Telephone: 00861062304633
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1.2. Testing Environment

Normal Temperature: 15-35°C
Relative Humidity: 20-75%

1.3. Project data

Project Leader: Lin Hao
Testing Start Date: 2022-7-12
Testing End Date: 2022-7-12

1.4. Signature

Lin Hao

(Prepared this test report)

Qi Dianyuan

(Reviewed this test report)

Lu Bingsong

Deputy Director of the laboratory
(Approved this test report)



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2. Client Information

2.1. Applicant Information

Company Name:	TCL Communication Ltd.
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2.2. Manufacturer Information

Company Name:	TCL Communication Ltd.
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Contact:	Peter yang
Email:	peter.yang@tcl.com
Telephone:	+86 755 3664 5759
Fax:	+86 755 3661 2000-81722

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

3.1. About EUT

Description	HOME PHONE 42
Model name	T606HPDL
Operation mode	LTE Band 2/4/5/7/8/12/13/25/26/41/66/71

3.2. Internal Identification of EUT

EUT ID*	IMEI	HW Version	SW Version
EUT1	/	V05	HP42UC_SD_CERT_FCC_GCF_PTCRB_01.00_01

*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. Reference Documents

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

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

Canadian RSS-102: Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)

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/f²)*	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

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

where

P_d = power density (mW/cm²)

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 (dBi)
LTE B2	-2.5
LTE B4	-2.27
LTE B5	-2.1
LTE B7	-2.68
LTE B12	-4.36
LTE B13	-4.11
LTE B25	-2.43
LTE B26	-2.42
LTE B41	-2.68
LTE B66	-2.26
LTE B71	-2.12

7.2. The maximum rated power limits

Maximum peak output power for antenna:

Frequency band	Maximum Rated Power (dBm)
LTE B2	24
LTE B4	24
LTE B5	24
LTE B7	24
LTE B12	24
LTE B13	24
LTE B25	24
LTE B26	24
LTE B41	24
LTE B66	24
LTE B71	24

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)	Maximum Rated Power (mW)	Antenna gain (dbi)	Antenna gain	d (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Conclusion
LTE B2	24	251.189	-2.5	0.6	20	0.028	1.000	PASS
LTE B4	24	251.189	-2.27	0.6	20	0.030	1.000	PASS
LTE B5	24	251.189	-2.1	0.6	20	0.031	0.558	PASS
LTE B7	24	251.189	-2.68	0.5	20	0.027	1.000	PASS
LTE B12	24	251.189	-4.36	0.4	20	0.018	0.472	PASS
LTE B13	24	251.189	-4.11	0.4	20	0.019	0.521	PASS
LTE B25	24	251.189	-2.43	0.6	20	0.029	1.000	PASS
LTE B26	24	251.189	-2.42	0.6	20	0.029	0.558	PASS
LTE B41	24	251.189	-2.68	0.5	20	0.027	1.000	PASS
LTE B66	24	251.189	-2.26	0.6	20	0.030	1.000	PASS
LTE B71	24	251.189	-2.12	0.6	20	0.031	0.472	PASS

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

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