



**FCC 47 CFR PART 15 SUBPART C  
RSS 247 Issue 2**

**TEST REPORT**

**For**

**Smart Phone**

**Model: ELTP18A04**

**Brand: GlocalMe**

**Test Report Number:**

**C180811Z01-RP1**

Issued for

**HONGKONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED**

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Issued by:

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**Issued Date: Aug 11, 2018**



Certificate Number: 2861.01

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	Aug 11, 2018	Initial Issue	ALL	Anna Liu



## TABLE OF CONTENTS

<b>1. TEST RESULT CERTIFICATION</b> .....	<b>4</b>
<b>2. EUT DESCRIPTION</b> .....	<b>5</b>
<b>3. TEST METHODOLOGY</b> .....	<b>6</b>
3.1 DESCRIPTION OF TEST MODES .....	6
3.2 SETUP CONFIGURATION OF EUT .....	6
3.3 SUPPORT EQUIPMENT .....	6
<b>4. FACILITIES AND ACCREDITATIONS</b> .....	<b>7</b>
4.1 FACILITIES .....	7
4.2 ACCREDITATIONS .....	7
4.3 MEASUREMENT UNCERTAINTY .....	7
<b>5. FCC PART 15.247 and RSS 247 REQUIREMENTS</b> .....	<b>8</b>
5.1 RADIATED EMISSIONS .....	8



## 1. TEST RESULT CERTIFICATION

<b>Product</b>	Smart Phone
<b>Model</b>	ELTP18A04
<b>Brand</b>	GlocalMe
<b>Tested</b>	Aug 10, 2018
<b>Applicant</b>	HONGKONG U-CLOUDLINK NETWORK TECHNOLOGY LIMITED
<b>Manufacturer</b>	Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road, Kowloon, Hong Kong, China

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 15 Subpart C	PASS
RSS 247 Issue 2	PASS

### We hereby certify that:

The above equipment was tested by Compliance Certification Services (Shenzhen) Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.207, 15.209, 15.249 and RSS 247.

The test results of this report relate only to the tested sample EUT identified in this report.

**Approved by:**

**Reviewed by:**

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Eve Wang  
Supervisor of EMC Dept.  
Compliance Certification Services (Shenzhen) Inc.

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Nancy Fu  
Supervisor of Report Dept.  
Compliance Certification Services (Shenzhen) Inc.



## 2. EUT DESCRIPTION

<b>Product</b>	Smart Phone
<b>Model Number</b>	ELTP18A04
<b>Brand</b>	GlocalMe
<b>Model Discrepancy</b>	N/A
<b>Identify Number</b>	C180811Z01-RP1
<b>Received Date</b>	Aug 11, 2018
<b>Power Supply</b>	3.85Vdc 3400mAh from Li-ion Battery
<b>Frequency Range</b>	GFSK, $\pi/4$ -DQPSK, 8-DPSK:2402MHz-2480MHz GFSK:2402MHz-2480MHz 802.11b/g/n(HT20):2412MHz~2462MHz
<b>Number of Channels</b>	Please see the clause 3.1
<b>Antenna Specification</b>	PIFA Antenna with 1.44dBi gain
<b>Hardware Version</b>	P3S18_TSV1.0.000.001.180720
<b>Software Version</b>	P3_MB_PCB_VA

**Note:** This submittal(s) (test report) is intended for FCC ID: **2AC88-ELTP18A04**, filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules, IC: **24230-ELTP18A04**, filing to comply with RSS-247.



### 3. TEST METHODOLOGY

#### 3.1 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Use engineering mode to control EUT to maintain continuous transmission and reception mode.

Test Item	Test mode
Radiated Emission	BT TX(GFSK, $\pi$ /4-DQPSK, 8-DPSK)
	BLE TX(GFSK)
	WIFI TX(802.11b,802.11g, 802.11n(HT20))

**Note:**

- BT test channel: 2402MHz, 2441MHz, 2480MHz.  
BLE test channel: 2402MHz, 2442MHz, 2480MHz.  
WIFI B/G/N20 test channel: 2412MHz, 2437MHz, 2462MHz.
- Radiated band edges were tested with both fixed and hopping mode; the fixed mode was the worse case and recorded in the report.

#### 3.2 SETUP CONFIGURATION OF EUT

See test photographs.

#### 3.3 SUPPORT EQUIPMENT

No.	Equipment	Model No.	Serial No.	FCC ID	Brand	Data Cable	Power Cord
/	/	/	/	/	/	/	/

**Notes:**

*Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.*



## 4. FACILITIES AND ACCREDITATIONS

### 4.1 FACILITIES

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

**No.10-1, Mingkeda Logistics Park, No.18 Huanguan South RD., Guan Lan Town, Longhuaxin District, Shenzhen, China**

The sites are constructed in conformance with the requirements of ANSI C63.10:2013, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

### 4.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

<b>USA</b>	A2LA
<b>China</b>	CNAS

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

<b>USA</b>	FCC
<b>Japan</b>	VCCI(C-4815, R-4320, T-2317, G-10624)
<b>Canada</b>	INDUSTRY CANADA

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccssz.com>

### 4.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Parameter	Uncertainty
Radiated Emission, 30 to 200 MHz Test Site : 966(2)	+/-3.6880dB
Radiated Emission, 200 to 1000 MHz Test Site : 966(2)	+/-3.6695dB
Radiated Emission, 1 to 8 GHz	+/-5.1782dB
Radiated Emission, 8 to 18 GHz	+/-5.2173dB
Radiated Emission, 18 to 26 GHz	+/-5.6512dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

The measured result is above (below) the specification limit by a margin less than the measurement uncertainty; it is therefore not possible to state compliance based on the 95% level of confidence. However, the result indicates that compliance (non-compliance) is more probable than non-compliance) with the specification limit.



## 5. FCC PART 15.247 and RSS 247 REQUIREMENTS

### 5.1 RADIATED EMISSIONS

#### LIMIT

1. Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

**Note:** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

2. In the above emission table, the tighter limit applies at the band edges.

Frequency (Hz)	Field Strength ( $\mu\text{V}/\text{m}$ at 3-meter)	Field Strength ( $\text{dB}\mu\text{V}/\text{m}$ at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54





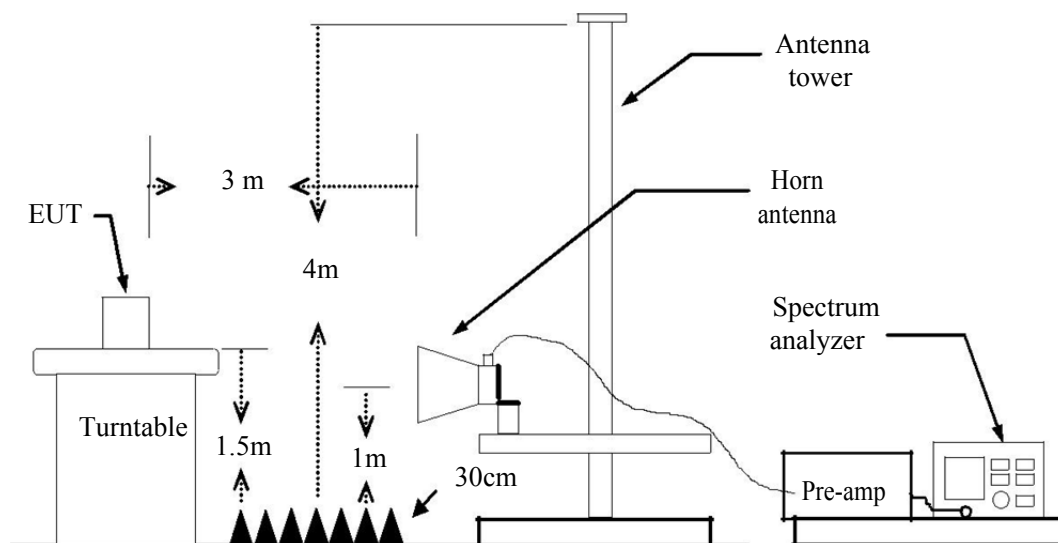
## MEASUREMENT EQUIPMENT USED

Radiated Emission Test Site 966(2)					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
PSA Series Spectrum Analyzer	Agilent	N9010A	MY52221469	02/18/2018	02/19/2019
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/18/2018	02/19/2019
Amplifier	EMEC	EM330	060661	02/17/2018	03/16/2019
High Noise Amplifier	Agilent	8449B	3008A01838	02/20/2018	02/19/2019
Loop Antenna	COM-POWER	AL-130	121044	09/25/2017	09/24/2018
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/20/2018	02/19/2019
Horn Antenna	SCHWARZBECK	BBHA9120	D286	02/20/2018	02/19/2019
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	02/20/2018	02/19/2019
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R
Controller	CT	N/A	N/A	N.C.R	N.C.R
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/202018	02/19/2019
Test S/W	FARAD	LZ-RF / CCS-SZ-3A2			

**Remark:** Each piece of equipment is scheduled for calibration once a year.

### Test Configuration

#### Above 1 GHz





## MEASURING SETTING

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/T for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/T for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

## TEST PROCEDURE

### 1) Sequence of testing above 18 GHz

#### Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

#### Pre measurement:

- The antenna is moved spherical over the EUT in different polarisations of the antenna.

#### Final measurement:

- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.



## TEST RESULTS

### Above 18GHz

*Only show worse case*

Test Mode: GFSK - 2402MHz							
Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
19308.86	40.52	6.73	47.25	74	26.75	V	peak
22230.89	43.60	7.75	51.35	74	22.65	V	peak
18915.62	36.85	6.45	43.30	74	30.70	H	peak
24919.59	36.79	8.26	45.05	74	28.95	H	peak

Test Mode: GFSK - 2441MHz							
Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
20741.24	44.52	7.03	51.55	74	22.45	V	peak
23461.83	44.78	7.96	52.74	74	21.26	V	peak
19458.35	35.28	6.73	42.01	74	31.99	H	peak
22674.60	39.15	7.75	46.90	74	27.10	H	peak

Test Mode: GFSK - 2480MHz							
Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
18488.35	43.68	6.45	50.13	74	23.87	V	peak
23109.76	45.73	7.96	53.69	74	20.31	V	peak
19294.89	37.61	6.73	44.34	74	29.66	H	peak
21356.05	35.67	7.36	43.03	74	30.97	H	peak



Test Mode: BLE - 2402MHz							
Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
18477.32	44.60	6.45	51.05	74	22.95	V	peak
22144.41	45.24	7.75	52.99	74	21.01	V	peak
19326.02	36.77	6.73	43.50	74	30.50	H	peak
21473.78	38.90	7.36	46.26	74	27.74	H	peak

Test Mode: BLE - 2442MHz							
Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
19297.95	41.64	6.73	48.37	74	25.63	V	peak
20867.42	46.36	7.03	53.39	74	20.61	V	peak
18565.45	39.41	6.45	45.86	74	28.14	H	peak
23482.17	38.44	7.96	46.40	74	27.60	H	peak

Test Mode: BLE - 2480MHz							
Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
19456.12	44.21	6.73	50.94	74	23.06	V	peak
20702.49	43.83	7.03	50.86	74	23.14	V	peak
19064.33	35.00	6.73	41.73	74	32.27	H	peak
21822.63	41.63	7.36	48.99	74	25.01	H	peak



Test Mode: 802.11b - 2412MHz							
Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
22070.69	42.45	7.75	50.20	74	23.80	V	peak
24409.50	45.82	8.26	54.08	74	19.92	V	peak
19491.06	38.77	6.73	45.50	74	28.50	H	peak
24762.50	42.80	8.26	51.06	74	22.94	H	peak

Test Mode: 802.11b - 2437MHz							
Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
22722.27	40.26	7.75	48.01	74	25.99	V	peak
24318.31	43.37	8.26	51.63	74	22.37	V	peak
19120.12	37.53	6.73	44.26	74	29.74	H	peak
20264.20	35.04	7.03	42.07	74	31.93	H	peak

Test Mode: 802.11b - 2462MHz							
Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
18360.51	44.32	6.45	50.77	74	23.23	V	peak
21203.41	45.86	7.36	53.22	74	20.78	V	peak
21875.24	36.91	7.36	44.27	74	29.73	H	peak
23446.87	35.44	7.96	43.40	74	30.60	H	peak

**Remark:**

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- Spectrum setting:
  - Peak Setting 1GHz - 25GHz, RBW = 1MHz, VBW = 3MHz, Sweep time = auto.
  - AV Setting 1GHz - 25GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = auto.
- |                        |  |
|------------------------|--|
| Frequency (MHz).       | = Emission frequency in MHz                    |
| Reading (dBuV/m)       | = Uncorrected Analyzer / Receiver Reading      |
| Correction Factor (dB) | = Antenna factor + Cable loss – Amplifier gain |
| Limit (dBuV/m)         | = Limit stated in standard                     |
| Margin (dB)            | = Result (dBuV/m)- Limit (dBuV/m)              |
| Peak                   | =Peak Reading                                  |
| AVG.                   | =Average Reading                               |
| Remark                 | = Mark Peak Reading or Average Reading         |



**TEST Photographs**

