# EMC TEST REPORT



Report No.: 17071218-FCC-E

Supersede Report No: N/A Applicant **Telepower Communication Co., Ltd Product Name** Smart POS Terminal Model No. **TPS900** Serial No. N/A **Test Standard** FCC Part 15 Subpart B Class B:2017, ANSI C63.4: 2014 **Test Date** November 09, 2017 to January 29, 2018 January 30, 2018 **Issue Date** Pass Test Result Fail Equipment complied with the specification 7 Equipment did not comply with the specification wars. He David Huang **Evans He** David Huang **Test Engineer Checked By** This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park

South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108 Phone: +86 0755 2601 4629801 Email: China@siemic.com.cn



 Test Report
 17071218-FCC-E

 Page
 2 of 37

### Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

	•
Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

#### Accreditations for Conformity Assessment



Test Report	17071218-FCC-E
Page	3 of 37

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 Test Report
 17071218-FCC-E

 Page
 4 of 37

### CONTENTS

1.	REPORT REVISION HISTORY	5
2.	CUSTOMER INFORMATION	5
3.	TEST SITE INFORMATION	5
4.	EQUIPMENT UNDER TEST (EUT) INFORMATION	6
5.	TEST SUMMARY	9
6.	MEASUREMENTS, EXAMINATION AND DERIVED RESULTS	10
6.1	AC POWER LINE CONDUCTED EMISSIONS	10
6.2	RADIATED EMISSIONS	16
ANN	NEX A. TEST INSTRUMENT	21
ANN	NEX B. EUT AND TEST SETUP PHOTOGRAPHS	22
ANN	NEX C. TEST SETUP AND SUPPORTING EQUIPMENT	33
ANN	NEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PARTLIST	36
	NEX E. DECLARATION OF SIMILARITY	37



Test Report	17071218-FCC-E
Page	5 of 37

### 1. Report Revision History

Report No.	Report Version	Description	Issue Date
17071218-FCC-E	NONE	Original	January 30, 2018

### 2. Customer information

Applicant Name	Telepower Communication Co., Ltd	
Applicant Add	5 Bld, Zone A, Hantian Technology Town,No.17 ShenHai RD, Nanhai District	
	Foshan, China	
Manufacturer	Telepower Communication Co., Ltd	
Manufacturer Add	5 Bld, Zone A, Hantian Technology Town,No.17 ShenHai RD, Nanhai District	
	Foshan, China	

### 3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES	
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park	
Lab Address	South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China	
	518108	
FCC Test Site No.	535293	
IC Test Site No.	4842E-1	
Test Software of	Radiated Emission Program-To Shenzhen v2.0	
Radiated Emission		
Test Software of	EZ-EMC(ver.lcp-03A1)	
Conducted Emission		



 Test Report
 17071218-FCC-E

 Page
 6 of 37

## 4. Equipment under Test (EUT) Information

Description of EUT:	Smart POS Terminal	
Main Model:	TPS900	
Serial Model:	N/A	
Antenna Gain:	GSM850: -4dBi PCS1900: 0dBi UMTS-FDD Band V: -4dBi UMTS-FDD Band II: 0dBi LTE Band II: 0dBi LTE Band IV: 1dBi LTE Band V: -4dBi WIFI: 2.7dBi Bluetooth/BLE: 2.7dBi GPS: 1.6dBi	
Antenna Type:	PIFA antenna	
Input Power:	Adapter: Model: SC/10WA050200US Input: AC100-240V~50/60Hz,0.5A Output: DC 5.0V,2A Battery Model: 325987P Spec: 7.4V/2200mAh,16.28Wh Charging limited voltage: 8.4V	
Equipment Category :	JBP	



 Test Report
 17071218-FCC-E

 Page
 7 of 37

Type of Modulation:	GPRS: GMSK EGPRS: GMSK,8PSK UMTS-FDD: QPSK LTE Band: QPSK, 16QAM 802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, π /4DQPSK, 8DPSK BLE: GFSK GPS:BPSK
RF Operating Frequency (ies):	GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz; RX: 1932.4 ~ 1987.6 MHz LTE Band II TX: 1850.7 ~ 1909.3MHz; RX : 1930.7 ~ 1989.3 MHz LTE Band IV TX: 1710.7 ~ 1754.3 MHz; RX : 2110.7 ~ 2154.3 MHz LTE Band V TX: 824.7 ~ 848.3 MHz; RX : 869.7 ~ 893.3MHz WIFI: 802.11b/g/n(20M): 2412-2462 MHz WIFI: 802.11n(40M): 2422-2452 MHz Bluetooth& BLE: 2402-2480 MHz GPS: 1575.42 MHz
Number of Channels:	GSM 850: 124CH PCS1900: 299CH UMTS-FDD Band V: 102CH UMTS-FDD Band II: 277CH WIFI :802.11b/g/n(20M): 11CH WIFI :802.11n(40M): 7CH Bluetooth: 79CH BLE: 40CH GPS:1CH
Port:	Please refer to user manual
Trade Name :	N/A
FCC ID:	2AJ2B-TPS900



 Test Report
 17071218-FCC-E

 Page
 8 of 37

Date EUT received:

November 09, 2017

Test Date(s):

November 09, 2017 to January 29, 2018



Test Report	17071218-FCC-E
Page	9 of 37

### 5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§15.107; ANSI C63.4: 2014	AC Power Line Conducted Emissions	Compliance
§15.109; ANSI C63.4: 2014	Radiated Emissions	Compliance

#### **Measurement Uncertainty**

Parameter	Uncertainty
AC Power Line Conducted Emissions	±3.11dB
(150kHz~30MHz)	IS. HUD
Radiated Emission(30MHz~1GHz)	±5.12dB
Radiated Emission(1GHz~6GHz)	±5.34dB



 Test Report
 17071218-FCC-E

 Page
 10 of 37

### 6. Measurements, Examination And Derived Results

### 6.1 AC Power Line Conducted Emissions

Temperature	23°C
Relative Humidity	54%
Atmospheric Pressure	1020mbar
Test date :	December 28, 2017
Tested By :	Evans He

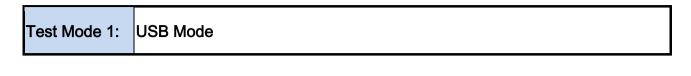
#### Requirement(s):

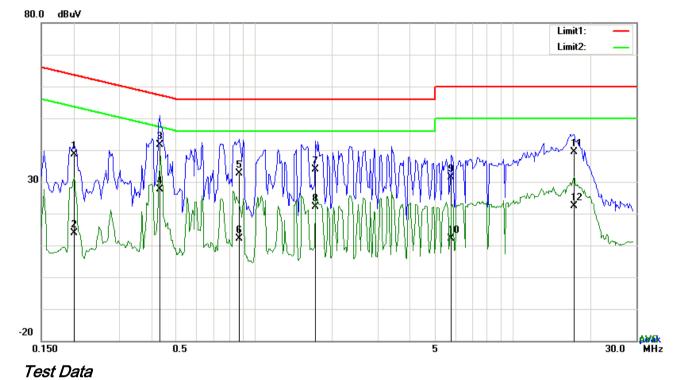
Spec	Item	Requirement Applicable						
47CFR§15. 107	a)	For Low-power radio-fr connected to the public voltage that is conducte frequency or frequencie not exceed the limits in [mu] H/50 ohms line im lower limit applies at th Frequency ranges	e utility (AC) power line ed back onto the AC po es, within the band 150 the following table, as pedance stabilization is e boundary between th	, the radio frequency ower line on any ) kHz to 30 MHz, shall measured using a 50 network (LISN). The	۲			
		(MHz)	QP	Average				
		0.15 ~ 0.5	66 - 56	56 - 46				
		0.5 ~ 5 5 ~ 30	56 60	46 50				
Test Setup		Vertical Ground Reference Plane EUT EUT Bocm LISN Bocm Horizontal Ground Reference Plane Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm						
Procedure	the 2. The	the standard on top of a $1.5m \times 1m \times 0.8m$ high, non-metallic table.						

3							
SĬE	MIC	Test Report	17071218-FCC-E				
A Bureau Verita	s Group Company	Page	11 of 37				
	nnected to the EMI test receiver via a low-loss						
	<ul><li>coaxial cable.</li><li>4. All other supporting equipment were powered separately from another main supply.</li></ul>						
	5. The EUT was switche	d on and allowed	d to warm up to its normal operating condition.				
	6. A scan was made on t	he NEUTRAL lin	ne (for AC mains) or Earth line (for DC power)				
			ng an EMI test receiver.				
			ne EMI test receiver was then tuned to the				
		and the necessa	ry measurements made with a receiver bandwidth				
	setting of 10 kHz.						
	8. Step / was then repea	ated for the LIVE	line (for AC mains) or DC line (for DC power).				
Remark							
Result	Pass Fa	-:1					
INESUIL							
Test Data	Yes	N/A					
	-	1					
Test Plot	Yes (See below)	N/A					
Test Mode 1:	USB Mode						
Test Mode 2:	MP4 Mode						
Test Mode 3:	Camera Mode						
Test Mode 4:	FM Mode						
Note: All mod	es were investigated f	he results be	low show only the worst case(USB mode).				



Test Report	17071218-FCC-E
Page	12 of 37



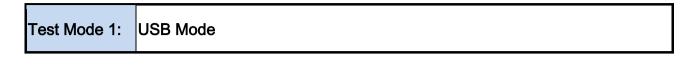


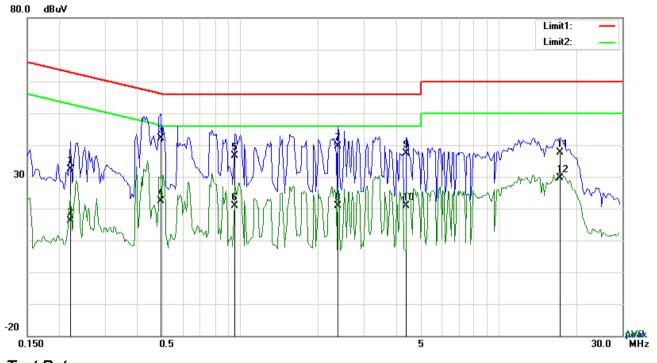
#### Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.2007	28.58	QP	10.03	38.61	63.58	-24.97
2	L1	0.2007	3.96	AVG	10.03	13.99	53.58	-39.59
3	L1	0.4308	31.64	QP	10.03	41.67	57.24	-15.57
4	L1	0.4308	17.55	AVG	10.03	27.58	47.24	-19.66
5	L1	0.8754	22.68	QP	10.03	32.71	56.00	-23.29
6	L1	0.8754	2.21	AVG	10.03	12.24	46.00	-33.76
7	L1	1.7217	23.79	QP	10.04	33.83	56.00	-22.17
8	L1	1.7217	12.14	AVG	10.04	22.18	46.00	-23.82
9	L1	5.7885	21.32	QP	10.09	31.41	60.00	-28.59
10	L1	5.7885	1.95	AVG	10.09	12.04	50.00	-37.96
11	L1	17.2272	29.15	QP	10.26	39.41	60.00	-20.59
12	L1	17.2272	12.07	AVG	10.26	22.33	50.00	-27.67



Test Report	17071218-FCC-E
Page	13 of 37



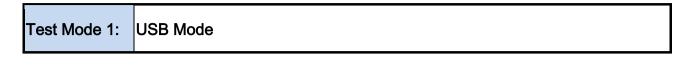


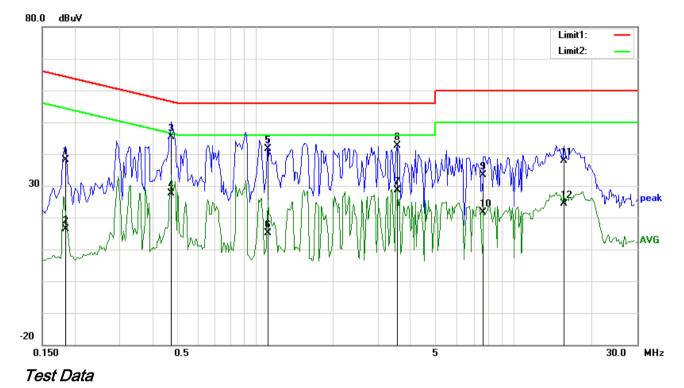
#### Test Data

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	Ν	0.2202	22.34	QP	10.02	32.36	62.81	-30.45
2	Ν	0.2202	6.20	AVG	10.02	16.22	52.81	-36.59
3	Ν	0.4932	32.13	QP	10.02	42.15	56.11	-13.96
4	Ν	0.4932	12.26	AVG	10.02	22.28	46.11	-23.83
5	Ν	0.9534	26.65	QP	10.03	36.68	56.00	-19.32
6	Ν	0.9534	10.85	AVG	10.03	20.88	46.00	-25.12
7	Ν	2.3925	29.51	QP	10.04	39.55	56.00	-16.45
8	Ν	2.3925	10.93	AVG	10.04	20.97	46.00	-25.03
9	Ν	4.4040	27.31	QP	10.06	37.37	56.00	-18.63
10	Ν	4.4040	10.90	AVG	10.06	20.96	46.00	-25.04
11	Ν	17.2155	27.39	QP	10.23	37.62	60.00	-22.38
12	Ν	17.2155	19.42	AVG	10.23	29.65	50.00	-20.35



Test Report	17071218-FCC-E
Page	14 of 37



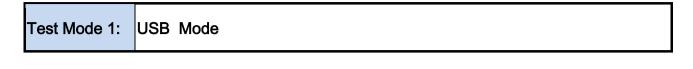


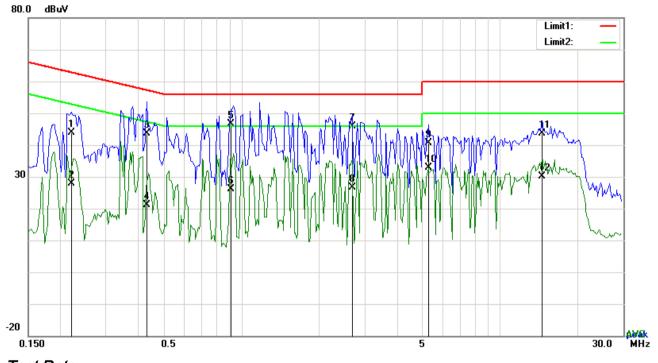
Phase Line Plot at 240Vac, 6	60Hz
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No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.1851	28.15	QP	10.02	38.17	64.25	-26.08
2	L1	0.1851	6.29	AVG	10.02	16.31	54.25	-37.94
3	L1	0.4737	35.48	QP	10.02	45.50	56.45	-10.95
4	L1	0.4737	17.54	AVG	10.02	27.56	46.45	-18.89
5	L1	1.1211	31.54	QP	10.03	41.57	56.00	-14.43
6	L1	1.1211	5.08	AVG	10.03	15.11	46.00	-30.89
7	L1	3.5382	18.48	AVG	10.06	28.54	46.00	-17.46
8	L1	3.5382	32.56	QP	10.06	42.62	56.00	-13.38
9	L1	7.6137	23.39	QP	10.11	33.50	60.00	-26.50
10	L1	7.6137	11.44	AVG	10.11	21.55	50.00	-28.45
11	L1	15.5658	27.71	QP	10.21	37.92	60.00	-22.08
12	L1	15.5658	14.11	AVG	10.21	24.32	50.00	-25.68



Test Report	17071218-FCC-E
Page	15 of 37





#### Test Data

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	Ν	0.2202	33.75	QP	10.02	43.77	62.81	-19.04
2	Ν	0.2202	17.81	AVG	10.02	27.83	52.81	-24.98
3	Ν	0.4308	33.63	QP	10.02	43.65	57.24	-13.59
4	Ν	0.4308	11.05	AVG	10.02	21.07	47.24	-26.17
5	Ν	0.9183	36.55	QP	10.03	46.58	56.00	-9.42
6	Ν	0.9183	16.01	AVG	10.03	26.04	46.00	-19.96
7	Ν	2.6811	35.88	QP	10.05	45.93	56.00	-10.07
8	Ν	2.6811	16.66	AVG	10.05	26.71	46.00	-19.29
9	Ν	5.2815	30.47	QP	10.07	40.54	60.00	-19.46
10	Ν	5.2815	22.70	AVG	10.07	32.77	50.00	-17.23
11	Ν	14.5908	33.49	QP	10.20	43.69	60.00	-16.31
12	Ν	14.5908	19.87	AVG	10.20	30.07	50.00	-19.93



 Test Report
 17071218-FCC-E

 Page
 16 of 37

### 6.2 Radiated Emissions

Temperature	23°C
Relative Humidity	54%
Atmospheric Pressure	1020mbar
Test date :	December 28, 2017
Tested By :	Evans He

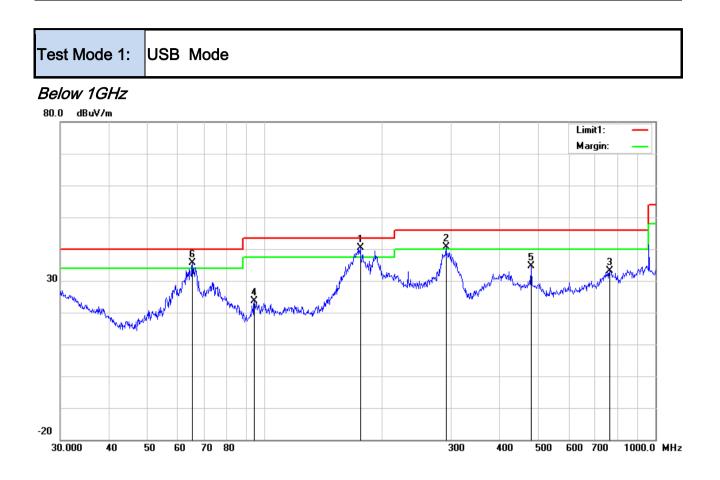
#### Requirement(s):

Spec	Item	Requirement	Requirement Applicable					
47CFR§15. 109(d)	a)							
Test Setup	Above 960 500 Ant. Tower FUT& 3m FUT& 3m Turn Table 80cm Ground Plane Test Receiver Cooo							
Procedure	2.							

3						
SIF	MIC	Test Report	17071218-FCC-E			
A Bureau Verit	as Group Company	Page	17 of 37			
	over a full	rotation of the El	IT) was chosen			
<ul><li>over a full rotation of the EUT) was chosen.</li><li>b. The EUT was then rotated to the direction that gave the maximur</li></ul>						
	emission.	was then rotated i				
	c. Finally, the antenna height was adjusted to the height that gave the maxim					
	emission.					
	3. The resolution bar	ndwidth and video	bandwidth of test receiver/spectrum analyzer is			
	120 kHz for Quasi	y Peak detection	at frequency below 1GHz.			
	4. The resolution ban	dwidth of test rece	eiver/spectrum analyzer is 1MHz and video			
	bandwidth is 3MH	z with Peak detec	tion for Peak measurement at frequency above			
	1GHz.					
	The resolution ba	andwidth of test re	ceiver/spectrum analyzer is 1MHz and the video			
		eak detection for	Average Measurement as below at frequency			
	above 1GHz.					
		,	Hz (Duty cycle > 98%)			
	-	-	e next frequency point, until all selected frequency			
	points were meas	ured.				
Remark						
Result	Pass	Fail				
-		1				
Test Data	Yes	N/A				
Test Plot	Yes (See below)	N/A				
Test Mode 1	: USB Mode					
Test Mode 2	: MP4 Mode					
Test Mode 3	: Camera Mode					
Test Mode 4	: FM Mode					
Note: All mod	des were investigated,	the results bel	ow show only the worst case(USB mode).			



Test Report	17071218-FCC-E
Page	18 of 37



#### Test Data

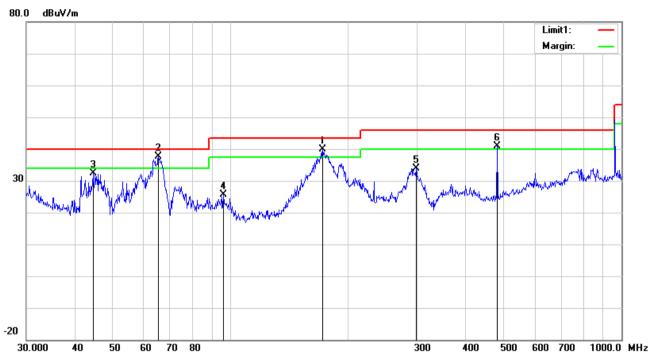
#### Ant\_F PA\_G Cab\_L P/L Detector Result Margin Height No. Frequency Reading Limit Degree (dBuV/ (dBuV/m) (MHz) (dBuV/m) (dB/m) (dB) (dB) (dB) (cm) () m) QP Н 175.6516 49.95 11.35 22.25 1.36 40.41 43.50 -3.09 100 112 1 2 Н 291.0360 47.85 QP 13.21 22.29 1.77 40.54 46.00 -5.46 100 158 3 Н 763.3757 30.58 20.96 21.23 2.89 33.20 46.00 -12.80 100 329 peak 4 100 Н 94.0979 35.96 8.98 22.32 0.98 23.60 43.50 -19.90 201 peak Н 480.5276 17.31 2.31 100 5 36.84 21.85 34.61 46.00 -11.39 115 peak 6 Н 65.3432 49.63 QP 7.57 22.39 0.89 35.70 40.00 -4.30 100 203

#### Horizontal Polarity Plot @3m



Test Report	17071218-FCC-E
Page	19 of 37

Below 1GHz



Test Data

#### Vertical Polarity Plot @3m

						-	<u> </u>					
No.	P/L	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	(cm)	()
1	V	171.9946	49.12	QP	11.64	22.26	1.36	39.86	43.50	-3.64	100	7
2	V	65.3432	51.49	QP	7.57	22.39	0.89	37.56	40.00	-2.44	100	285
3	V	44.4308	42.84	peak	10.98	22.29	0.75	32.28	40.00	-7.72	100	178
4	V	95.7622	37.53	peak	9.38	22.32	1.01	25.60	43.50	-17.90	100	176
5	V	298.2681	40.85	peak	13.52	22.29	1.79	33.87	46.00	-12.13	100	118
6	V	480.5276	43.21	QP	17.31	21.85	2.31	40.98	46.00	-5.02	100	63



 Test Report
 17071218-FCC-E

 Page
 20 of 37

Above 1GHz

Frequency	Read_level	A — inter state	Height	Polarity	Level	Factors	Limit	Margin	Detector
(MHz)	(dBµV/m)	Azimuth	(cm)	(H/V)	(dBµV/m)	(dB)	(dBµV/m)	(dB)	(PK/AV)
1231.72	68.83	344	100	V	-20.1	48.73	74	-25.27	PK
1767.88	63.47	342	100	V	-16.95	46.52	74	-27.48	PK
3010.25	60.92	303	100	V	-12.99	47.93	74	-26.07	PK
1140.99	65.06	120	100	Н	-20.78	44.28	74	-29.72	PK
1997.57	63.58	315	100	Н	-15.44	48.14	74	-25.86	PK
3703.99	57.53	285	100	Н	-10.94	46.59	74	-27.41	PK

Note1: The highest frequency of the EUT is 2480MHz, so the testing has been conformed to 5\*2480MHz

=12400MHz.

Note2: The frequency that above 3GHz is mainly from the environment noise.

Note3: The AV measurement performed, more than 20dB below limit so AV test data was not presented.



 Test Report
 17071218-FCC-E

 Page
 21 of 37

### Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted Emis	ssions				
EMI test receiver	ESCS30	8471241027	09/15/2017	09/14/2018	
Line Impedance Stabilization Network	LI-125A	191106	09/23/2017	09/22/2018	V
Line Impedance Stabilization Network	LI-125A	191107	09/23/2017	09/22/2018	K
LISN	ISN T800	34373	09/23/2017	09/22/2018	V
Transient Limiter	LIT-153	531118	08/30/2017	08/29/2018	
Radiated Emissions					
EMI test receiver	ESL6	100262	09/15/2017	09/14/2018	
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/30/2017	08/29/2018	V
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	V
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/19/2017	09/18/2018	<b>X</b>
Double Ridge Horn Antenna	AH-118	71259	09/22/2017	09/21/2018	Z



Test Report	17071218-FCC-E
Page	22 of 37

### Annex B. EUT And Test Setup Photographs

#### Annex B.i. Photograph: EUT External Photo

Whole Package View



Adapter - Lable View







EUT - Front View



Test Report	17071218-FCC-E
Page	23 of 37



Test Report	17071218-FCC-E
Page	24 of 37

EUT - Top View



#### EUT - Bottom View





Test Report	17071218-FCC-E
Page	25 of 37

EUT - Left View



EUT - Right View





Test Report	17071218-FCC-E
Page	26 of 37

### Annex B.ii. Photograph: EUT Internal Photo



Cover Off - Top View 2





Test Report	17071218-FCC-E
Page	27 of 37

Battery - Front View



Battery - Rear View





Test Report	17071218-FCC-E
Page	28 of 37

Mainboard with Shielding - Front View



Mainboard without Shielding - Front View





Test Report	17071218-FCC-E
Page	29 of 37

Mainboard – Rear View



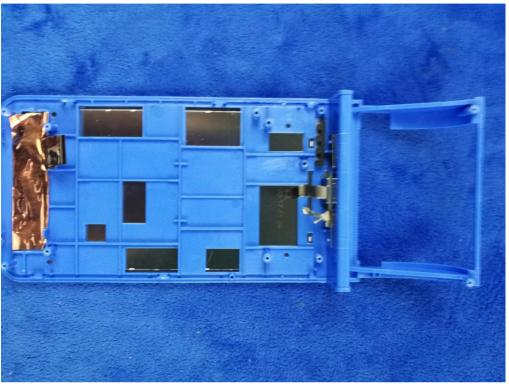
#### LCD – Front View





Test Report	17071218-FCC-E
Page	30 of 37

LCD – Rear View



GSM/PCS/UMTS-FDD/LTE Antenna View





Test Report	17071218-FCC-E
Page	31 of 37

WIFI/BT/BLE - Antenna View



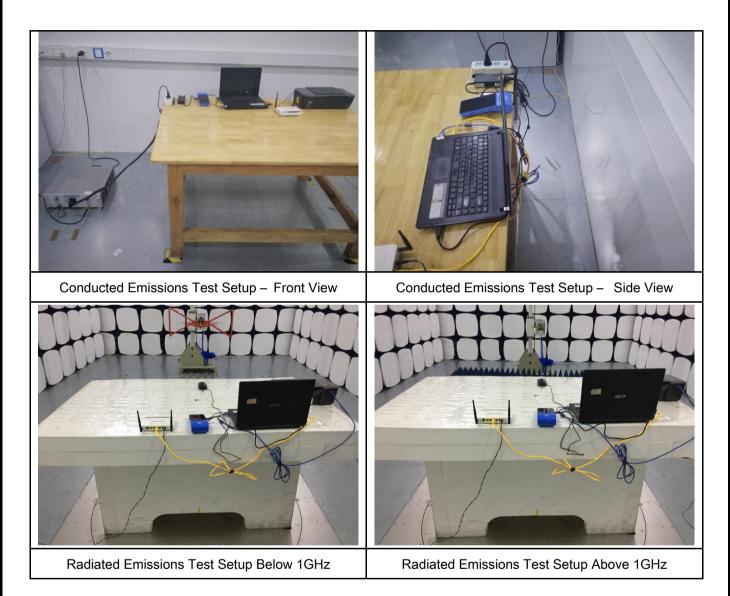
GPS - Antenna View





Test Report	17071218-FCC-E
Page	32 of 37

#### Annex B.iii. Photograph: Test Setup Photo



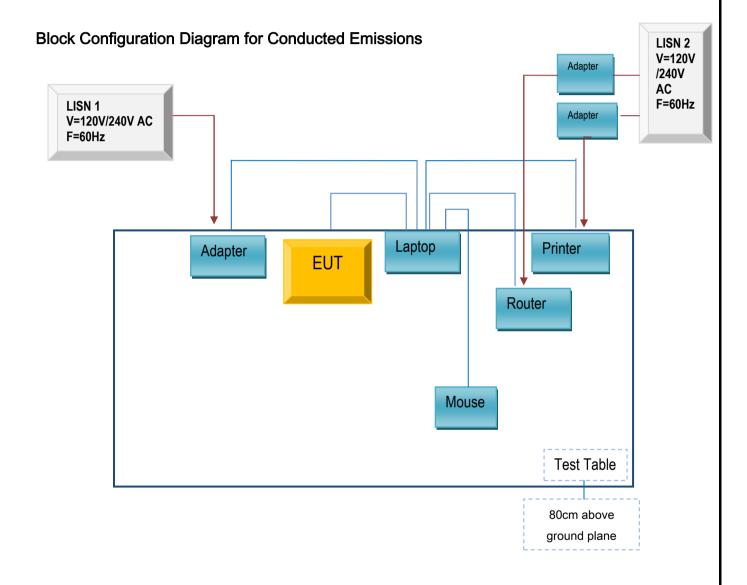


 Test Report
 17071218-FCC-E

 Page
 33 of 37

### Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

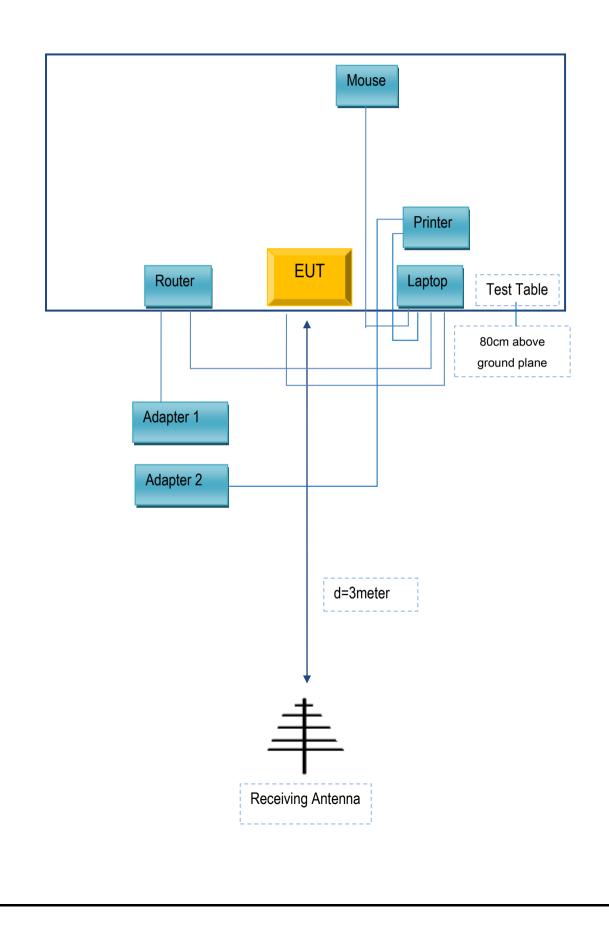
#### Annex C.ii. TEST SET UP BLOCK





Test Report	17071218-FCC-E
Page	34 of 37

### Block Configuration Diagram for Radiated Emissions





 Test Report
 17071218-FCC-E

 Page
 35 of 37

#### Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

#### Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Lenovo	Laptop	E40	LR-1EHRX
GOLDWEB	Router	R102	1202032094
Lenovo	AC Adapter	42T4416	21D9JU
HP	Printer	VCVRA-1003	CN36M19JWX
DELL	Mouse	E100	912NMTUT41481
BULL	Socket	GN-403	GN201203

#### Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	2m	JX120051274
USB Cable	Un-shielding	No	2m	CBA3000AH0C1
RJ45 Cable	Un-shielding	No	2m	KX156327541
Router Power cable	Un-shielding	No	2m	13274630Z
Printer Power cable	Un-shielding	No	2m	127581031
Power Cable	Un-shielding	No	0.8m	GT211032



 Test Report
 17071218-FCC-E

 Page
 36 of 37

### Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see the attachment



 Test Report
 17071218-FCC-E

 Page
 37 of 37

### Annex E. DECLARATION OF SIMILARITY

N/A