# EMC TEST REPORT



Report No.: 17071294-FCC-E
Supersede Report No: N/A

Applicant	MFOURTEL MEXICO S.A. DE C.V.			
Product Name	Smart Phone			
Model No.	M4 B3			
Serial No.	N/A			
Test Standard	FCC Part 15	5 Subpart B (	Class B:2016, A	NSI C63.4: 2014
Test Date	November 2	November 20 to December 05, 2017		
Issue Date	December 06, 2017			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
mais. He David Huang				
Evans He		David	Huang	
Test Engineer		Chec	ked 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	17071294-FCC-E
Page	2 of 38

# **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.

## **Accreditations for Conformity Assessment**

<del>_</del>		
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	



Test Report	17071294-FCC-E
Page	3 of 38

This page has been left blank intentionally.



Test Report	17071294-FCC-E
Page	4 of 38

# **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	8
6.	MEASUREMENTS, EXAMINATION AND DERIVED RESULTS	9
6.1	AC POWER LINE CONDUCTED EMISSIONS	9
6.2	RADIATED EMISSIONS	15
ANI	NEX A. TEST INSTRUMENT	20
ANI	NEX B. EUT AND TEST SETUP PHOTOGRAPHS	21
ANI	NEX C. TEST SETUP AND SUPPORTING EQUIPMENT	34
ANI	NEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PARTLIST	37
ANI	NEX E. DECLARATION OF SIMILARITY	38



Test Report	17071294-FCC-E
Page	5 of 38

# 1. Report Revision History

Report No.	Report Version	Description	Issue Date
17071294-FCC-E	NONE	Original	December 06, 2017

# 2. Customer information

Applicant Name	MFOURTEL MEXICO S.A. DE C.V.	
Applicant Add	Av. Ejército Nacional 436 Piso 3 Chapultepec Morales Miguel Hidalgo Distrito	
	Federal 11570.	
Manufacturer	CK Telecom Limited	
Manufacturer Add	Technology Road.High-Tech Development Zone. Heyuan, Guangdong,P.R.China.	

# 3. Test site information

#### Test Lab A:

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	Radiated Emission Program-To Shenzhen v2.0	

#### Test Lab B:

Lab performing tests	SIEMIC (Nanjing-China) Laboratories	
I als Address	2-1 Longcang Avenue Yuhua Economic and	
Lab Address	Technology Development Park, Nanjing, China	
FCC Test Site No.	694825	
IC Test Site No.	4842B-1	
Test Software	EZ_EMC(ver.lcp-03A1)	

Note: We just perform Radiated Spurious Emission above 18GHz in the test Lab. B.



Test Report	17071294-FCC-E
Page	6 of 38

# 4. Equipment under Test (EUT) Information

Description of EUT:	Smart Phone
---------------------	-------------

Main Model: M4 B3

Serial Model: N/A

GSM850: -3dBi PCS1900: -1dBi

UMTS-FDD Band V: -3dBi UMTS-FDD Band II: -1dBi

LTE Band II: -1dBi

Antenna Gain: LTE Band IV: -3dBi

LTE Band VII: 0 dBi LTE Band XII: -4dBi Bluetooth/BLE: 1dBi

WIFI: 1dBi GPS: -1dBi

Antenna Type: PIFA Antenna

Adapter: Model: M4

Input: AC100-240V~50/60Hz,150mA

Input Power: Output: DC 5V, 1000mA

Battery:

Model: M3000A

Spec: 3.85V, 3000mAh, 11.55Wh

Equipment Category: JBP

GSM / GPRS: GMSK EGPRS: GMSK,8PSK UMTS-FDD: QPSK

Type of Modulation: LTE Band: QPSK, 16QAM

802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

**BLE: GFSK** 



Test Report	17071294-FCC-E
Page	7 of 38

#### **GPS:BPSK**

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

RF Operating Frequency (ies): LTE Band IV TX: 1710.7 ~ 1754.3 MHz; RX : 2110.7~ 2154.3 MHz

LTE Band VII TX: 2502.5 ~ 2567.5 MHz; RX : 2622.5 ~ 2687.5 MHz

LTE Band XII TX:699.7 ~ 715.3 MHz; RX: 729.7~ 745.3MHz

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

GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V: 102CH UMTS-FDD Band II: 277CH

Number of Channels: WIFI:802.11b/g/n(20M): 11CH

WIFI:802.11n(40M): 7CH

Bluetooth: 79CH

BLE: 40CH GPS:1CH

Port: USB Port, Earphone Port

Trade Name: M4

GPRS/EGPRS Multi-slot class 8/10/11/12

FCC ID: CLNM4B3

Date EUT received: November 20, 2017

Test Date(s): November 20 to December 05, 2017



Test Report	17071294-FCC-E
Page	8 of 38

# 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)		
Radiated Emission(30MHz~1GHz)	±5.12dB	
Radiated Emission(1GHz~6GHz)	±5.34dB	



Test Report	17071294-FCC-E
Page	9 of 38

# 6. Measurements, Examination And Derived Results

# 6.1 AC Power Line Conducted Emissions

Temperature	25 °C
Relative Humidity	57%
Atmospheric Pressure	1024mbar
Test date :	November 24, 2017
Tested By :	Evans He

#### Requirement(s):

Spec	Item	Requirement		Applicable	
47CFR§15. 107	a)	For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [mu] H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges.		<b>&gt;</b>	
107		Frequency ranges	-	dBµV)	
		(MHz)	QP	Average	
		0.15 ~ 0.5	66 – 56	56 – 46	
		0.5 ~ 5	56	46	
		5 ~ 30	60	50	
Test Setup  Vertical Ground Reference Plane  Test Receiver  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 from other units and other metal planes support units.				
Procedure	<ol> <li>The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.</li> <li>The power supply for the EUT was fed through a 50Ω /50mH EUT LISN, connected to filtered mains.</li> </ol>				



Test Report	17071294-FCC-E
Page	10 of 38

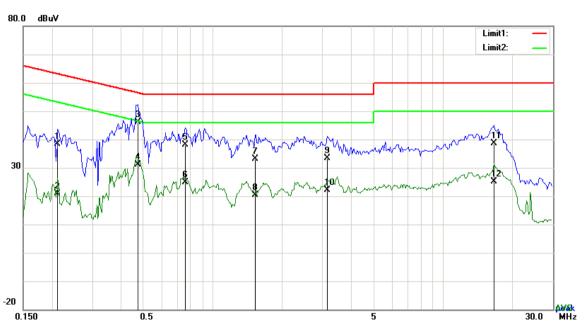
	3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss
	coaxial cable.
	4. All other supporting equipment were powered separately from another main supply.
	5. The EUT was switched on and allowed to warm up to its normal operating condition.
	6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power)
	over the required frequency range using an EMI test receiver.
	7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the
	selected frequencies and the necessary measurements made with a receiver bandwidth
	setting of 10 kHz.
	8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).
Remark	
Result	Pass Fail

Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>



Test Report	17071294-FCC-E
Page	11 of 38

Test Mode : USB Mode



Test Data

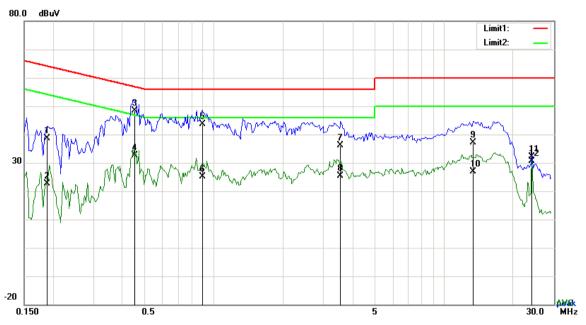
## Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz) (dBuV)			(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.2124	28.44	QP	10.03	38.47	63.11	-24.64
2	L1	0.2124	10.87	AVG	10.03	20.90	53.11	-32.21
3	L1	0.4737 36.15 QP 10.0		10.03	46.18	56.45	-10.27	
4	L1	0.4737 21.03 AVG 10.0		10.03	31.06	46.45	-15.39	
5	L1	0.7623 28.11 QP		10.03	38.14	56.00	-17.86	
6	L1	0.7623	14.96 AVG		10.03	24.99	46.00	-21.01
7	L1	1.5345	1.5345 23.20 QP		10.04	33.24	56.00	-22.76
8	L1	1.5345	10.42	AVG	10.04	20.46	46.00	-25.54
9	L1	3.1560	23.44	QP	10.06	33.50	56.00	-22.50
10	L1	3.1560	12.17	AVG	10.06	22.23	46.00	-23.77
11	L1	16.6149	28.29	QP	10.25	38.54	60.00	-21.46
12	L1	16.6149	14.77	AVG	10.25	25.02	50.00	-24.98



Test Report	17071294-FCC-E
Page	12 of 38

Test Mode: USB Mode



Test Data

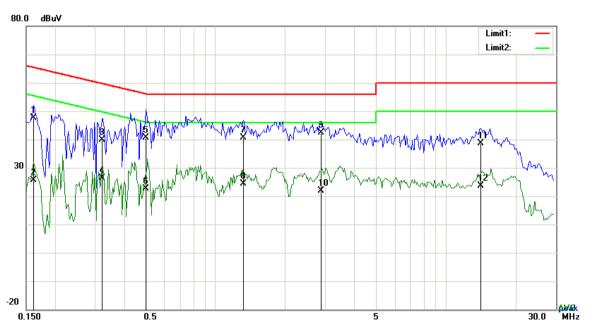
## Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency Reading Detector Corrected		Result	Limit	Margin		
		(MHz) (dBuV) (dB)		(dB}	(dBuV)	(dBuV)	(dB)	
1	N	0.1890	28.70	QP	10.03	38.73	64.08	-25.35
2	N	0.1890	12.49	AVG	10.03	22.52	54.08	-31.56
3	N	0.4542 38.28 QP 10.03		10.03	48.31	56.80	-8.49	
4	N	0.4542 22.59 AVG 10.03		10.03	32.62	46.80	-14.18	
5	N	0.8910 33.55 QP 10.03		10.03	43.58	56.00	-12.42	
6	N	0.8910	15.09	AVG	10.03	25.12	46.00	-20.88
7	N	3.5577	26.05	QP	10.06	36.11	56.00	-19.89
8	N	3.5577	15.25	AVG	10.06	25.31	46.00	-20.69
9	N	13.4052	27.02	QP	10.20	37.22	60.00	-22.78
10	N	13.4052	16.63	AVG	10.20	26.83	50.00	-23.17
11	N	24.0210	21.72	QP	10.38	32.10	60.00	-27.90
12	N	24.0210	20.22	AVG	10.38 30.60		50.00	-19.40



Test Report	17071294-FCC-E
Page	13 of 38

Test Mode : USB Mode



Test Data

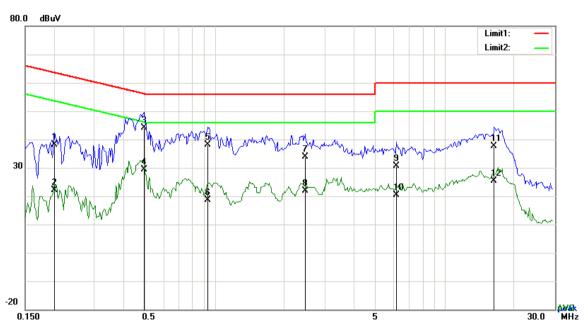
## Phase Line Plot at 240Vac, 60Hz

		_						
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1617	37.61	QP	10.03	47.64	65.38	-17.74
2	L1	0.1617	15.49	AVG	10.03	25.52	55.38	-29.86
3	L1	0.3216	29.93	QP	10.03	39.96	59.67	-19.71
4	L1	0.3216	16.41	AVG	10.03	26.44	49.67	-23.23
5	L1	0.4971 30.50 QP 10.03		10.03	40.53	56.05	-15.52	
6	L1	0.4971	12.48	.48 AVG 10.03		22.51	46.05	-23.54
7	L1	1.3200	30.58	QP 10		40.61	56.00	-15.39
8	L1	1.3200	14.30	AVG	10.03	24.33	46.00	-21.67
9	L1	2.8644	32.45	QP	10.05	42.50	56.00	-13.50
10	L1	2.8644	11.89	AVG	10.05	21.94	46.00	-24.06
11	L1	14.1735	28.35	QP	10.21	38.56	60.00	-21.44
12	L1	14.1735	13.46	AVG	10.21	23.67	50.00	-26.33



Test Report	17071294-FCC-E
Page	14 of 38

Test Mode : USB Mode



Test Data

## Phase Neutral Plot at 240Vac, 60Hz

	That House I lot at 2 lovas, some							
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(MHz) (dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.2007	28.17	QP	10.03	38.20	63.58	-25.38
2	N	0.2007	12.13	AVG	10.03	22.16	53.58	-31.42
3	N	0.4932	4932 34.20 QP 10.03		10.03	44.23	56.11	-11.88
4	N	0.4932	19.25	9.25 AVG 10.03		29.28	46.11	-16.83
5	N	0.9339	0.9339 28.09 QP 10.03		10.03	38.12	56.00	-17.88
6	N	0.9339	8.58	AVG 10.03		18.61	46.00	-27.39
7	N	2.4705	23.73	QP	10.05	33.78	56.00	-22.22
8	N	2.4705	11.72	AVG	10.05	21.77	46.00	-24.23
9	N	6.1356	20.55	QP	10.10	30.65	60.00	-29.35
10	N	6.1356	10.17	AVG	10.10	20.27	50.00	-29.73
11	N	16.3458	27.46	QP	10.25	37.71	60.00	-22.29
12	N	16.3458	15.16	AVG	10.25	25.41	50.00	-24.59



Test Report	17071294-FCC-E
Page	15 of 38

# 6.2 Radiated Emissions

Temperature	25 °C
Relative Humidity	55%
Atmospheric Pressure	1017mbar
Test date :	November 23, 2017
Tested By:	Evans He

## Requirement(s):

Spec	Item	Requirement		Applicable	
47CFR§15. 109(d)	a)	Except higher limit as specified else emissions from the low-power radio exceed the field strength levels spet the level of any unwanted emission the fundamental emission. The tight edges  Frequency range (MHz)  30 – 88	p-frequency devices shall not cified in the following table and s shall not exceed the level of	<b>Y</b>	
		88 - 216	150		
		216 - 960 Above 960	200 500		
Test Setup	Ant. Tower  Support Units  Turn Table  Ground Plane  Test Receiver				
Procedure	<ol> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:         <ul> <li>Vertical or horizontal polarization (whichever gave the higher emission level</li> </ul> </li> </ol>				



Test Report	17071294-FCC-E
Page	16 of 38

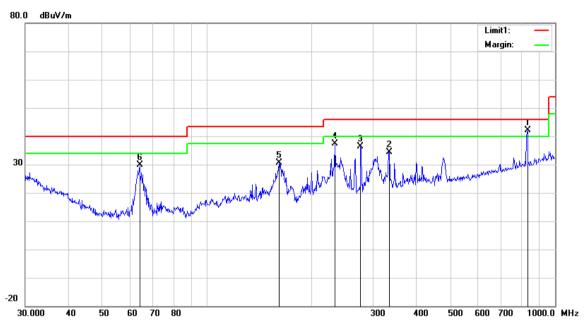
		over a full rotation of the EUT) was chosen.
	b.	The EUT was then rotated to the direction that gave the maximum
		emission.
	C.	Finally, the antenna height was adjusted to the height that gave the maximum
		emission.
3.	The res	olution bandwidth and video bandwidth of test receiver/spectrum analyzer is
	120 kHz	z for Quasiy Peak detection at frequency below 1GHz.
4.	The reso	olution bandwidth of test receiver/spectrum analyzer is 1MHz and video
	bandwid	dth is 3MHz with Peak detection for Peak measurement at frequency above
	1GHz.	
	The res	solution bandwidth of test receiver/spectrum analyzer is 1MHz and the video
	bandw	idth with Peak detection for Average Measurement as below at frequency
	above	1GHz.
	■ 1 kH	z (Duty cycle < 98%) □ 10 Hz (Duty cycle > 98%)
5.	Steps 2	and 3 were repeated for the next frequency point, until all selected frequency
	points w	vere measured.
₽ P	ass	☐ Fail
7		
Yes		N/A
Yes (	See belov	N/A
	4. 5. Yes	c.  3. The results 120 kHz 4. The results 1GHz. The results bandwing above 1 kH 5. Steps 2 points were



Test Report	17071294-FCC-E
Page	17 of 38

Test Mode : USB Mode

## Below 1GHz



#### Test Data

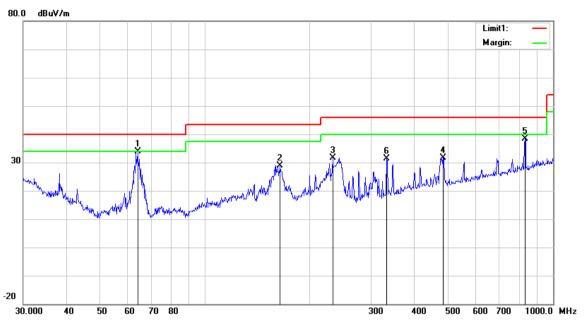
## Horizontal Polarity Plot @3m

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	I	833.3171	38.55	QP	21.77	21.06	2.90	42.16	46.00	-3.84	100	80
2	I	333.6867	40.28	peak	14.31	22.20	1.96	34.35	46.00	-11.65	100	30
3	I	276.1236	44.29	peak	12.55	22.29	1.75	36.30	46.00	-9.70	100	282
4	I	232.5318	46.51	peak	11.64	22.32	1.64	37.47	46.00	-8.53	100	109
5	Н	160.9089	39.06	peak	12.53	22.27	1.39	30.71	43.50	-12.79	100	276
6	Н	63.9828	44.01	peak	7.50	22.40	0.85	29.96	40.00	-10.04	100	304



Test Report	17071294-FCC-E
Page	18 of 38

## Below 1GHz



#### Test Data

# Vertical Polarity Plot @3m

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	٧	63.9828	47.81	peak	7.50	22.40	0.85	33.76	40.00	-6.24	100	62
2	٧	164.3302	37.60	peak	12.25	22.27	1.38	28.96	43.50	-14.54	100	333
3	>	232.5318	40.61	peak	11.64	22.32	1.64	31.57	46.00	-14.43	100	243
4	>	483.9094	33.68	peak	17.38	21.84	2.33	31.55	46.00	-14.45	200	194
5	>	830.4002	34.89	peak	21.73	21.07	2.91	38.46	46.00	-7.54	100	18
6	V	332.5187	37.29	peak	14.28	22.20	1.95	31.32	46.00	-14.68	100	120



Test Report	17071294-FCC-E
Page	19 of 38

#### Above 1GHz

Frequency	Read_level	Allerande	Height	Polarity	Level	Factors	Limit	Margin	Detector
(MHz)	(dBµV/m)	Azimuth	(cm)	(H/V)	(dBµV/m)	(dB)	(dBµV/m)	(dB)	(PK/AV)
1068.542	68.94	90	100	V	-20.3	48.64	74	-25.36	PK
1556.694	65.83	287	100	V	-18.21	47.62	74	-26.38	PK
2235.578	62.07	256	100	V	-14.18	47.89	74	-26.11	PK
1315.398	65.71	356	100	Н	-19.36	46.35	74	-27.65	PK
2018.53	63.87	21	100	Н	-14.39	49.48	74	-24.52	PK
2914.448	61.4	226	100	Н	-12.83	48.57	74	-25.43	PK

Note1: The highest frequency of the EUT is 2567.5 MHz, so the testing has been conformed to 5\*2567.5MHz=12,838MHz.

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.

Note4: The radiated spurious test above 18GHz is subcontracted to SIEMIC (Nanjing-China) Laboratories. and found

30dB below the limit at least.



Tes	st Report	17071294-FCC-E
Pag	ge	20 of 38

# Annex A. TEST INSTRUMENT

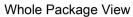
Instrument	Model	Serial#	Cal Date	Cal Due	In use
AC Line Conducted Emis	ssions				
EMI test receiver	ESCS30	8471241027	09/15/2017	09/14/2018	>
Line Impedance	LI-125A	191106	09/23/2017	09/22/2018	<b>~</b>
Stabilization Network	LI-123A	191100	09/23/2017	09/22/2010	•
Line Impedance	LI-125A	191107	09/23/2017	09/22/2018	<b>&gt;</b>
Stabilization Network	LI-123A	191107	09/23/2017	09/22/2010	Į.
ISN	ISN T800	34373	09/23/2017	09/22/2018	•
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	8447E	2727A02430	08/30/2017	08/29/2018	<b>&gt;</b>
(0.1-1300MHz)	0447 ⊑	2121A02430	00/30/2017	00/29/2010	, v
Microwave Preamplifier	8449B	3008A02402	03/23/2017	03/22/2018	<b>~</b>
(1 ~ 26.5GHz)	04490	3000A02402	03/23/2017	03/22/2010	Į.
Bilog Antenna	JB6	A110712	09/19/2017	09/18/2018	~
(30MHz~6GHz)	300	A110712	09/19/2017	09/10/2010	Į.
Double Ridge Horn	AH-118	71259	09/22/2017	09/21/2018	<b>&gt;</b>
Antenna	A11-110	7 1209	USIZZIZUTI	03/21/2010	
Horn Antenna	BBHA9170	3145226D1	09/27/2017	09/26/2018	>



Test Report	17071294-FCC-E
Page	21 of 38

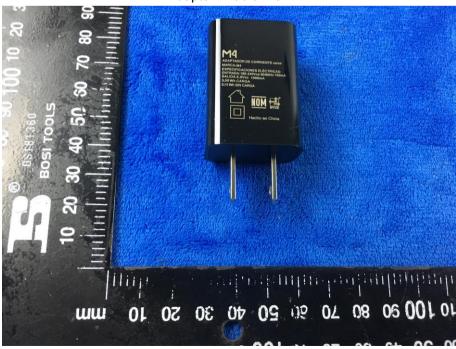
# Annex B. EUT And Test Setup Photographs

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





Adapter - Lable View





Test Report	17071294-FCC-E
Page	22 of 38

**EUT - Front View** 



**EUT - Rear View** 



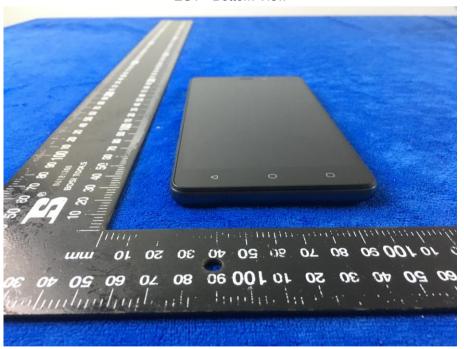


Test Report	17071294-FCC-E
Page	23 of 38

**EUT - Top View** 



**EUT - Bottom View** 



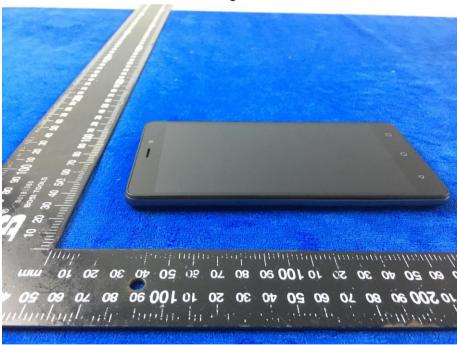


Test Report	17071294-FCC-E
Page	24 of 38

EUT - Left View



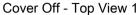
EUT - Right View





Test Report	17071294-FCC-E
Page	25 of 38

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





Cover Off - Top View 2



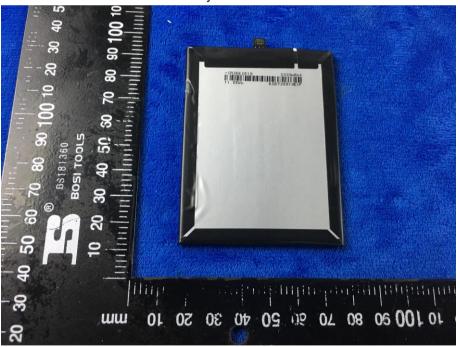


Test Report	17071294-FCC-E
Page	26 of 38

Battery - Front View



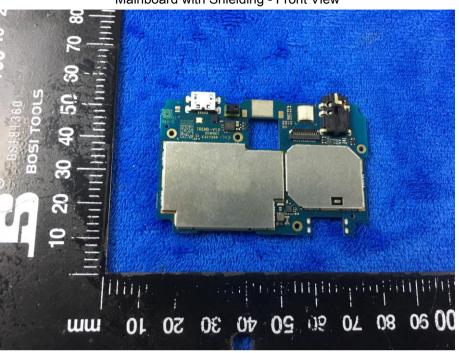
Battery - Rear View



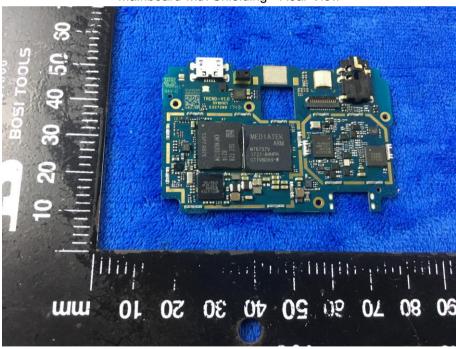


Test Report	17071294-FCC-E
Page	27 of 38

Mainboard with Shielding - Front View



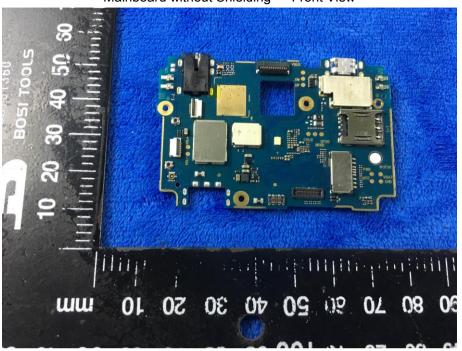
Mainboard with Shielding - Rear View



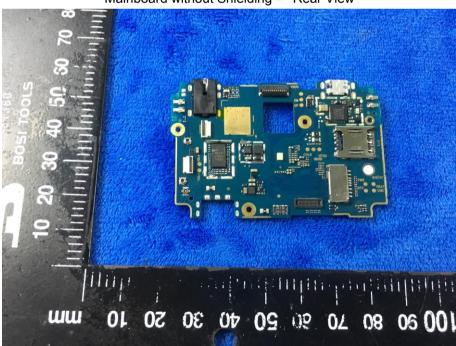


Test Report	17071294-FCC-E
Page	28 of 38

Mainboard without Shielding - Front View



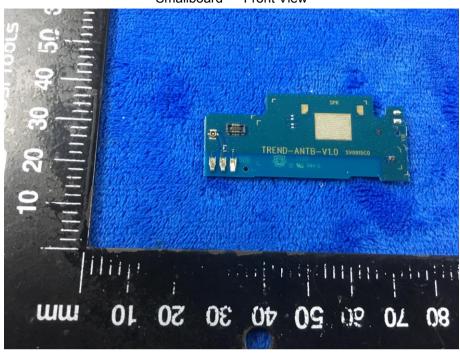
Mainboard without Shielding - Rear View



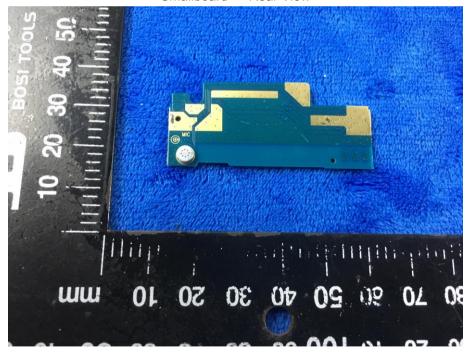


Test Report	17071294-FCC-E
Page	29 of 38

Smallboard - Front View



Smallboard - Rear View



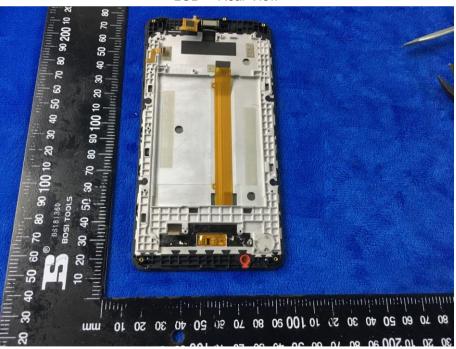


Test Report	17071294-FCC-E
Page	30 of 38

LCD - Front View



LCD - Rear View





Test Report	17071294-FCC-E
Page	31 of 38

#### GSM/PCS/UMTS-FDD/LTE Antenna View



WIFI/BT/BLE/GPS - Antenna View





Test Report	17071294-FCC-E
Page	32 of 38

#### **RXD- Antenna View**



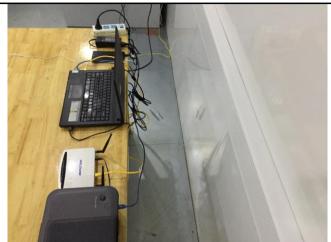


Test Report	17071294-FCC-E
Page	33 of 38

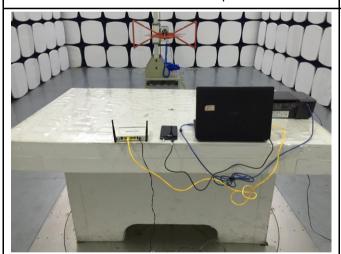
## Annex B.iii. Photograph: Test Setup Photo



Conducted Emissions Test Setup - Front View



Conducted Emissions Test Setup - Side View



Radiated Emissions Test Setup Below 1GHz



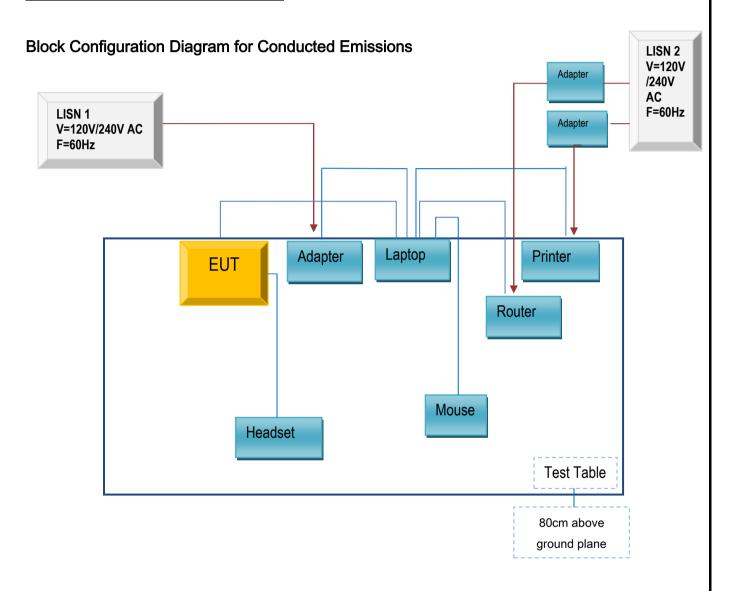
Radiated Emissions Test Setup Above 1GHz



Test Report	17071294-FCC-E
Page	34 of 38

# Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

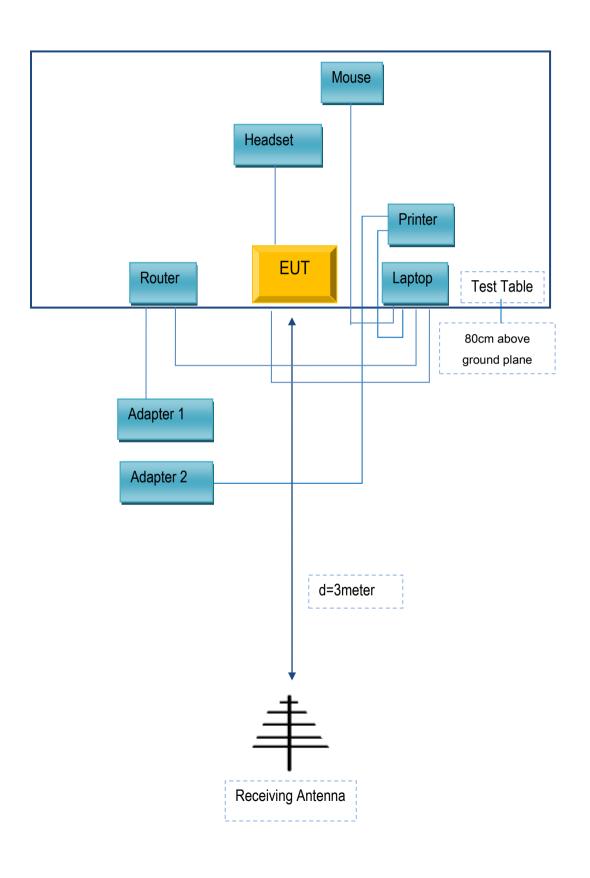
#### Annex C.ii. TEST SET UP BLOCK





Test Report	17071294-FCC-E
Page	35 of 38

# **Block Configuration Diagram for Radiated Emissions**





Test Report	17071294-FCC-E
Page	36 of 38

## 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
НР	Printer	VCVRA-1003	CN36M19JWX
DELL	Mouse	E100	912NMTUT41481
BULL	Socket	GN-403	GN201203
MFOURTEL MEXICO S.A. DE C.V.	headset	M4	N/A

## 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	17071294-FCC-E
Page	37 of 38

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

Please see the attachment



Test Report	17071294-FCC-E
Page	38 of 38

# Annex E. DECLARATION OF SIMILARITY

N/A