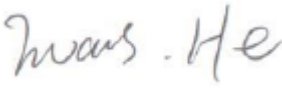
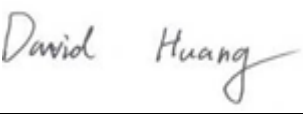


EMC TEST REPORT



Report No.: 18070297-FCC-E

Supersede Report No: N/A

Applicant	SWAGTEK	
Product Name	2.4 inch 3G Bar Phone	
Model No.	LOGIC B5G	
Serial No.	iSWAG Chat, UNONU B5G	
Test Standard	FCC Part 15 Subpart B Class B, ANSI C63.4: 2014	
Test Date	April 18 to May 11, 2018	
Issue Date	May 12, 2018	
Test Result	☒ Pass ☐ Fail	
Equipment complied with the specification		☒
Equipment did not comply with the specification		☐
		
Evans He Test Engineer	David Huang 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

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

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	18070297-FCC-E
Page	3 of 36

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1. Report Revision History

Report No.	Report Version	Description	Issue Date
18070297-FCC-E	NONE	Original	May 12, 2018

2. Customer information

Applicant Name	SWAGTEK
Applicant Add	10205 NW 19th Street, STE 101, Miami, FL 33172
Manufacturer	SWAGTEK
Manufacturer Add	10205 NW 19th Street, STE 101, Miami, FL 33172

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park 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	Radiated Emission Program-To Shenzhen v2.0
Test Software of Conducted Emission	EZ-EMC(ver.lcp-03A1)

4. Equipment under Test (EUT) Information

Description of EUT:	2.4 inch 3G Bar Phone
Main Model:	LOGIC B5G
Serial Model:	iSWAG Chat, UNONU B5G
Antenna Gain:	GSM850: -1dBi PCS1900: -1dBi UMTS-FDD Band V: -1dBi UMTS-FDD Band II: -1dBi WIFI: 0dBi Bluetooth/BLE: 0dBi GPS: -1dBi
Antenna Type:	PIFA antenna
Input Power:	Adapter: Model: LOGIC B5G Input: AC100-240V~50/60Hz,0.2A Output: DC 5.0V, 550mA Battery Rated Voltage: 3.7V Battery Capacity: 800mAh Charger Output: 550mA
Equipment Category :	JBP
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK UMTS-FDD: QPSK 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
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: USB Port, Earphone Port

Trade Name : LOGIC, iSWAG, UNONU

FCC ID: O55500418

Date EUT received: April 17, 2018

Test Date(s): April 18 to May 11, 2018

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 (150kHz~30MHz)	±3.11dB
Radiated Emission(30MHz~1GHz)	±5.12dB
Radiated Emission(1GHz~6GHz)	±5.34dB

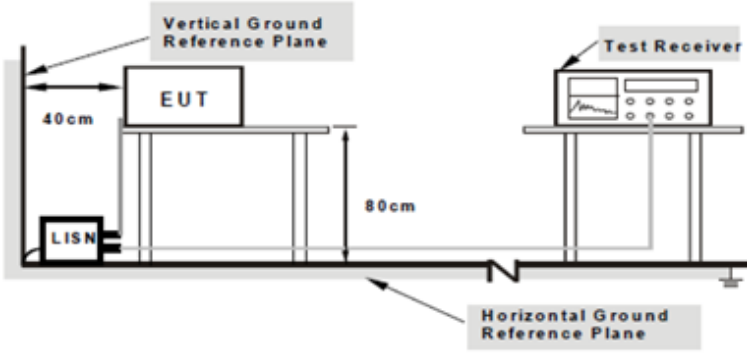
6. Measurements, Examination And Derived Results

6.1 AC Power Line Conducted Emissions

Temperature	25°C
Relative Humidity	57%
Atmospheric Pressure	1022mbar
Test date :	April 28, 2018
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.															
		<table><tr><th rowspan="2">Frequency ranges (MHz)</th><th colspan="2">Limit (dBµV)</th></tr><tr><th>QP</th><th>Average</th></tr><tr><td>0.15 ~ 0.5</td><td>66 – 56</td><td>56 – 46</td></tr><tr><td>0.5 ~ 5</td><td>56</td><td>46</td></tr><tr><td>5 ~ 30</td><td>60</td><td>50</td></tr></table>		Frequency ranges (MHz)	Limit (dBµV)		QP	Average	0.15 ~ 0.5	66 – 56	56 – 46	0.5 ~ 5	56	46	5 ~ 30	60	50
		Frequency ranges (MHz)			Limit (dBµV)												
				QP	Average												
		0.15 ~ 0.5		66 – 56	56 – 46												
		0.5 ~ 5		56	46												
5 ~ 30	60	50															

Test Setup	 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	- 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. - The power supply for the EUT was fed through a 50Ω /50mH EUT LISN, connected to filtered mains.
-----------	--

	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 ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Test Mode 1:	USB Mode
--------------	----------

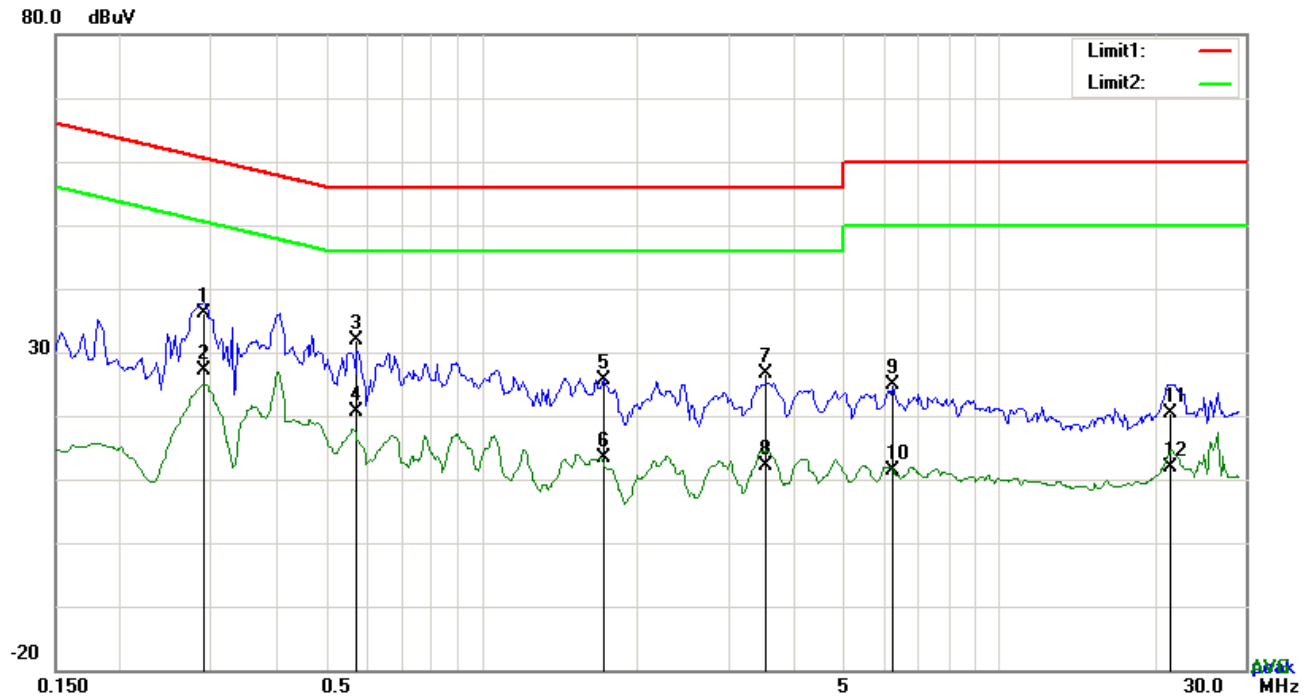
Test Mode 2:	MP4 Mode
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Test Mode 3:	Camera Mode
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Test Mode 4:	FM Mode
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Note: All modes were investigated, the results below show only the worst case(USB mode).

Test Mode 1:	USB Mode
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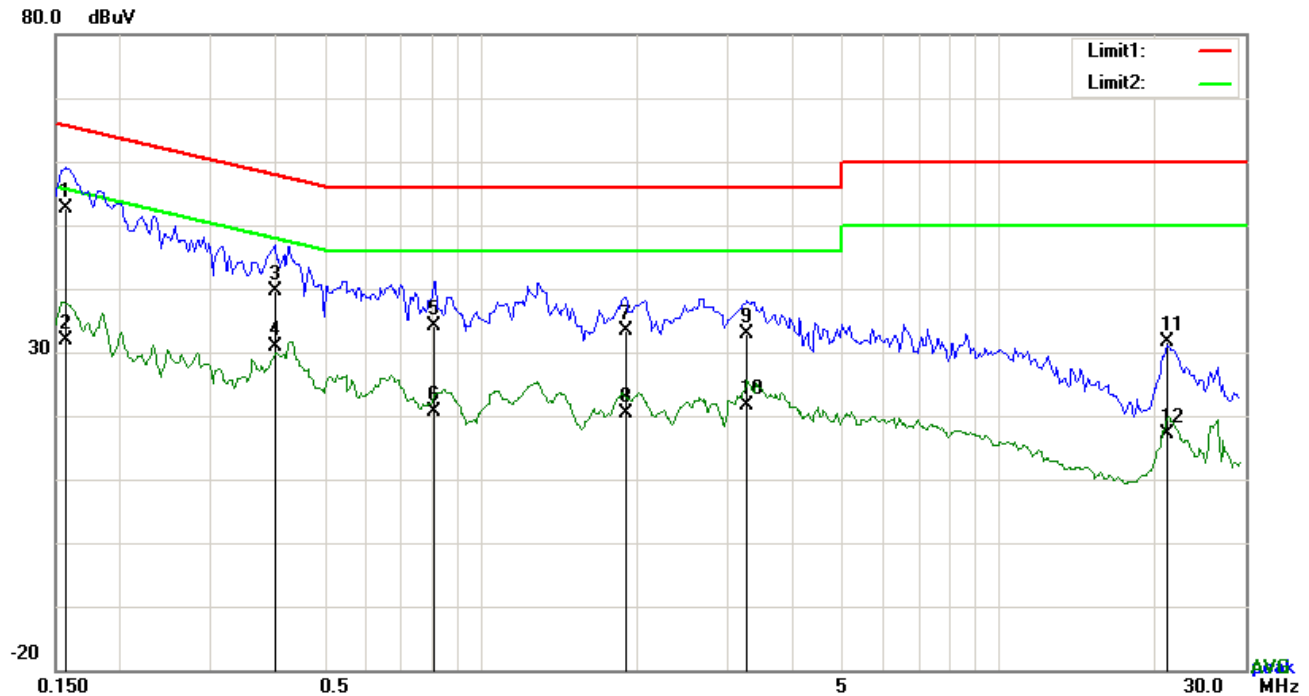


Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.2904	26.07	QP	10.03	36.10	60.51	-24.41
2	L1	0.2904	16.98	AVG	10.03	27.01	50.51	-23.50
3	L1	0.5751	21.79	QP	10.03	31.82	56.00	-24.18
4	L1	0.5751	10.72	AVG	10.03	20.75	46.00	-25.25
5	L1	1.7178	15.52	QP	10.04	25.56	56.00	-30.44
6	L1	1.7178	3.30	AVG	10.04	13.34	46.00	-32.66
7	L1	3.5577	16.69	QP	10.06	26.75	56.00	-29.25
8	L1	3.5577	2.05	AVG	10.06	12.11	46.00	-33.89
9	L1	6.2409	14.89	QP	10.10	24.99	60.00	-35.01
10	L1	6.2409	1.32	AVG	10.10	11.42	50.00	-38.58
11	L1	21.5094	9.96	QP	10.33	20.29	60.00	-39.71
12	L1	21.5094	1.65	AVG	10.33	11.98	50.00	-38.02

Test Mode 1: USB Mode

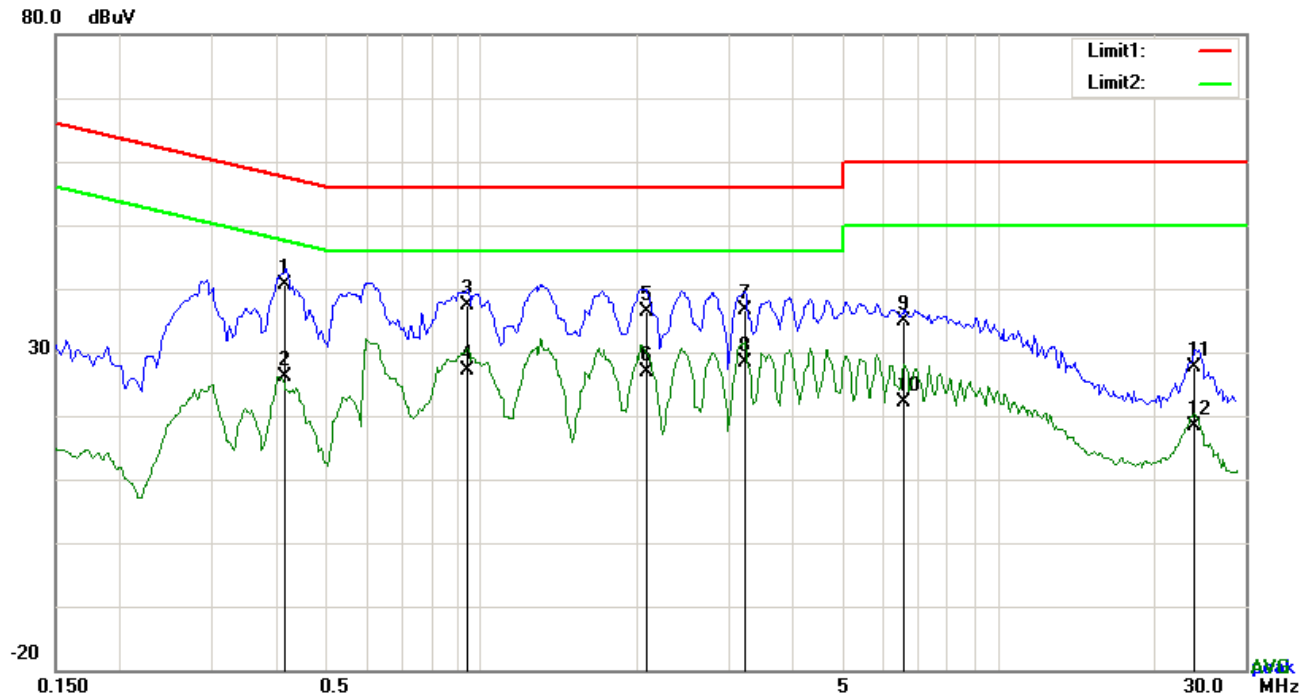


Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.1578	42.53	QP	10.02	52.55	65.58	-13.03
2	N	0.1578	21.87	AVG	10.02	31.89	55.58	-23.69
3	N	0.3996	29.69	QP	10.02	39.71	57.86	-18.15
4	N	0.3996	20.90	AVG	10.02	30.92	47.86	-16.94
5	N	0.8130	24.16	QP	10.03	34.19	56.00	-21.81
6	N	0.8130	10.53	AVG	10.03	20.56	46.00	-25.44
7	N	1.9011	23.29	QP	10.04	33.33	56.00	-22.67
8	N	1.9011	10.32	AVG	10.04	20.36	46.00	-25.64
9	N	3.2613	22.78	QP	10.05	32.83	56.00	-23.17
10	N	3.2613	11.59	AVG	10.05	21.64	46.00	-24.36
11	N	21.2481	21.43	QP	10.28	31.71	60.00	-28.29
12	N	21.2481	6.88	AVG	10.28	17.16	50.00	-32.84

Test Mode 1: USB Mode

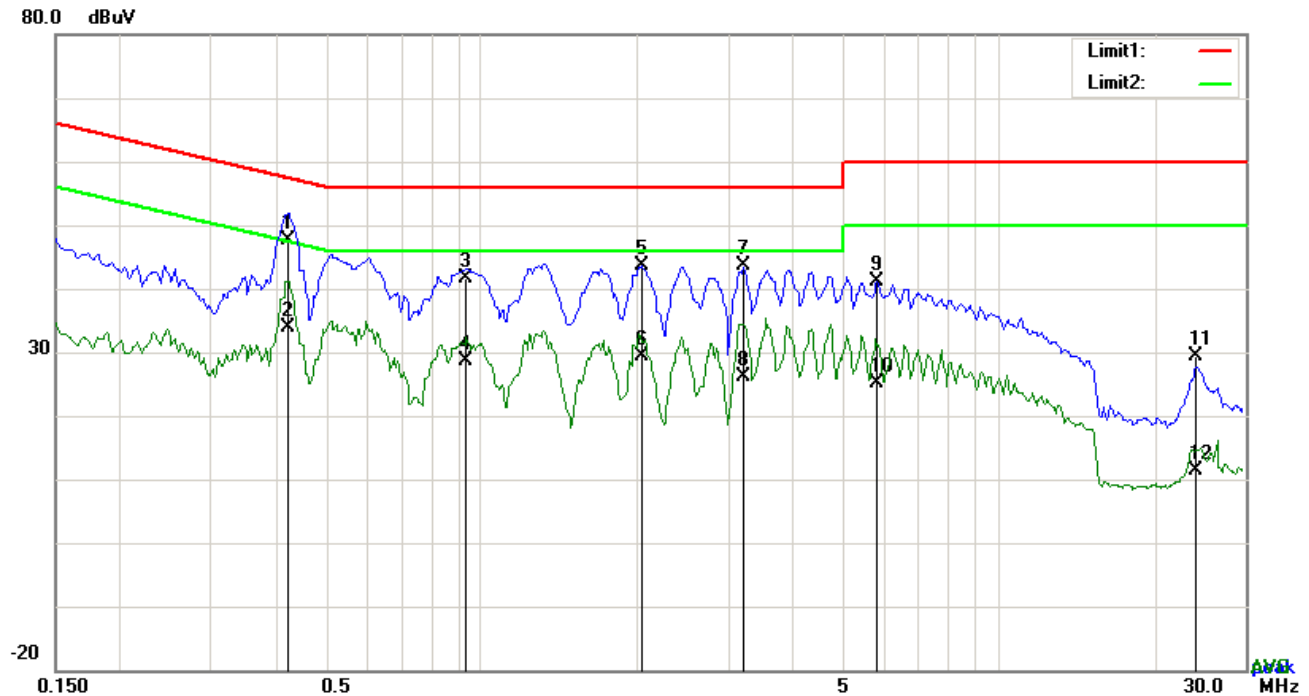


Test Data

Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.4191	30.66	QP	10.03	40.69	57.47	-16.78
2	L1	0.4191	15.98	AVG	10.03	26.01	47.47	-21.46
3	L1	0.9417	27.32	QP	10.03	37.35	56.00	-18.65
4	L1	0.9417	17.10	AVG	10.03	27.13	46.00	-18.87
5	L1	2.0805	26.43	QP	10.04	36.47	56.00	-19.53
6	L1	2.0805	16.85	AVG	10.04	26.89	46.00	-19.11
7	L1	3.2301	26.66	QP	10.06	36.72	56.00	-19.28
8	L1	3.2301	18.29	AVG	10.06	28.35	46.00	-17.65
9	L1	6.5880	24.90	QP	10.10	35.00	60.00	-25.00
10	L1	6.5880	12.15	AVG	10.10	22.25	50.00	-27.75
11	L1	23.8572	17.15	QP	10.37	27.52	60.00	-32.48
12	L1	23.8572	8.04	AVG	10.37	18.41	50.00	-31.59

Test Mode 1:	USB Mode
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Test Data

Phase Neutral Plot at 240Vac, 60Hz

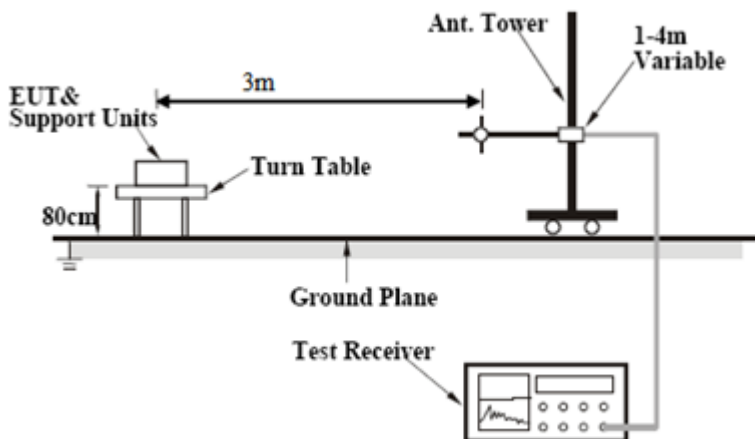
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.4230	37.65	QP	10.02	47.67	57.39	-9.72
2	N	0.4230	23.77	AVG	10.02	33.79	47.39	-13.60
3	N	0.9339	31.67	QP	10.03	41.70	56.00	-14.30
4	N	0.9339	18.63	AVG	10.03	28.66	46.00	-17.34
5	N	2.0376	33.67	QP	10.04	43.71	56.00	-12.29
6	N	2.0376	19.43	AVG	10.04	29.47	46.00	-16.53
7	N	3.2106	33.58	QP	10.05	43.63	56.00	-12.37
8	N	3.2106	16.03	AVG	10.05	26.08	46.00	-19.92
9	N	5.8314	31.06	QP	10.08	41.14	60.00	-18.86
10	N	5.8314	15.01	AVG	10.08	25.09	50.00	-24.91
11	N	24.1185	19.13	QP	10.33	29.46	60.00	-30.54
12	N	24.1185	1.16	AVG	10.33	11.49	50.00	-38.51

6.2 Radiated Emissions

Temperature	25°C
Relative Humidity	57%
Atmospheric Pressure	1022mbar
Test date :	April 28, 2018
Tested By :	Evans He

Requirement(s):

Spec	Item	Requirement	Applicable	
47CFR§15.109(d)	a)	Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges	☒	
		Frequency range (MHz)		Field Strength (µV/m)
		30 – 88		100
		88 – 216		150
		216 - 960		200
		Above 960		500

Test Setup	
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Procedure	- The EUT was switched on and allowed to warm up to its normal operating condition. - 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: - Vertical or horizontal polarization (whichever gave the higher emission level
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	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 resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi Peak detection at frequency below 1GHz. 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth with Peak detection for Average Measurement as below at frequency above 1GHz. ■ 1 kHz (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 were measured.
Remark	
Result	☒ Pass ☐ Fail

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Test Mode 1:	USB Mode
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Test Mode 2:	MP4 Mode
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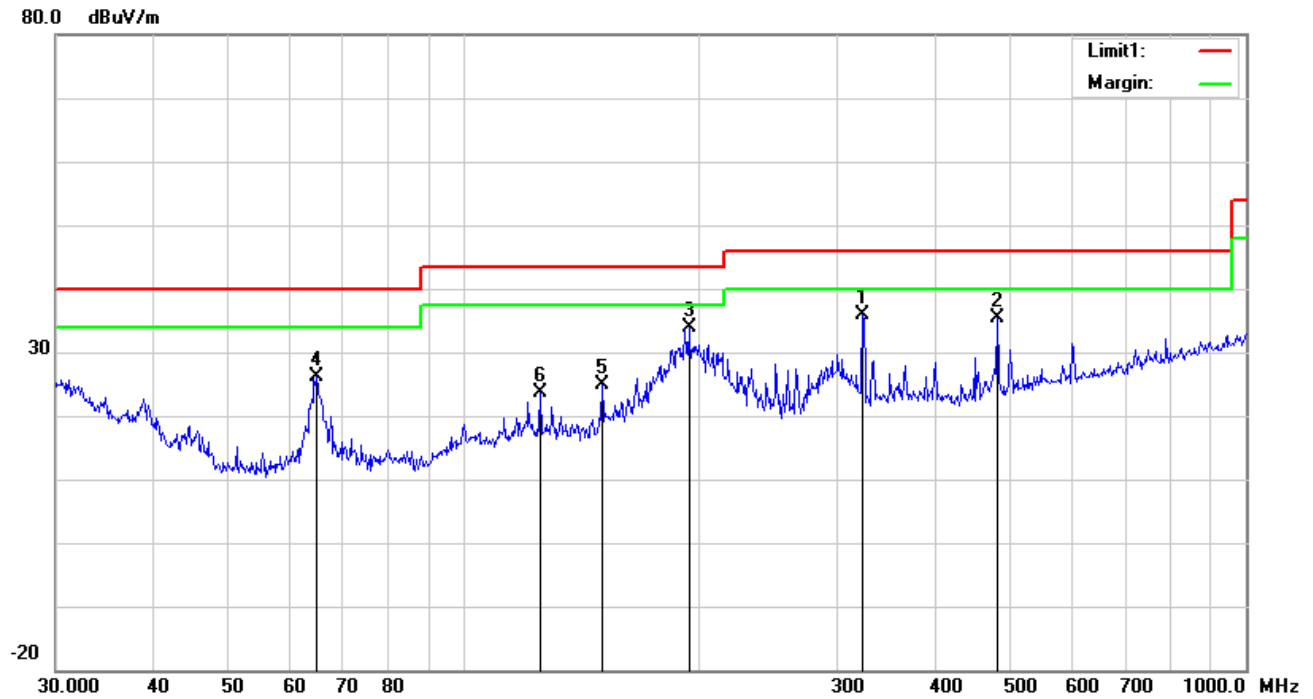
Test Mode 3:	Camera Mode
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Test Mode 4:	FM Mode
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Note: All modes were investigated, the results below show only the worst case(USB mode).

Test Mode 1: USB Mode

Below 1GHz

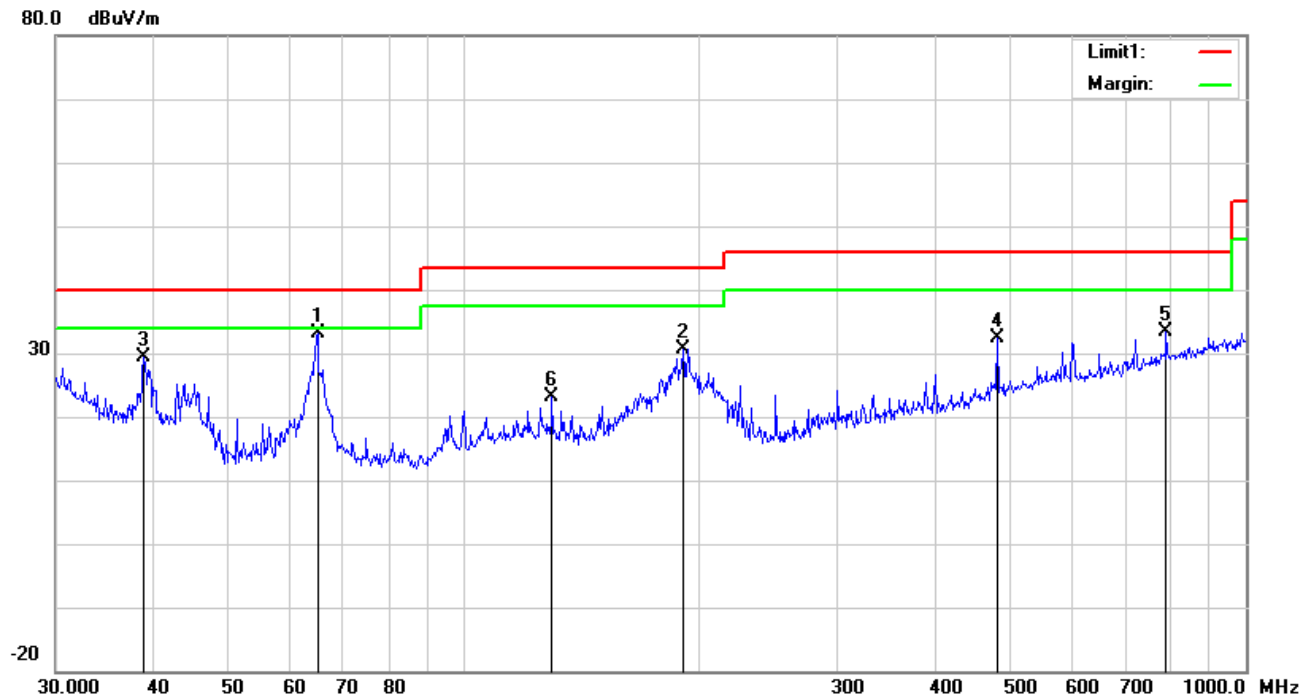


Test Data

Horizontal Polarity Plot @3m

No.	P/L	Frequency (MHz)	Reading (dBuV/m)	Detector	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	H	323.3204	42.10	peak	14.09	22.22	1.91	35.88	46.00	-10.12	200	110
2	H	480.5276	37.56	peak	17.31	21.85	2.31	35.33	46.00	-10.67	100	176
3	H	193.7728	43.03	peak	11.76	22.34	1.54	33.99	43.50	-9.51	100	201
4	H	64.6594	40.03	peak	7.53	22.40	0.87	26.03	40.00	-13.97	100	52
5	H	150.0108	33.37	peak	12.60	22.34	1.34	24.97	43.50	-18.53	100	11
6	H	125.0066	31.15	peak	13.57	22.37	1.18	23.53	43.50	-19.97	100	293

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	V	64.8865	47.14	peak	7.54	22.40	0.88	33.16	40.00	-6.84	100	117
2	V	190.4050	39.83	peak	11.57	22.32	1.54	30.62	43.50	-12.88	100	347
3	V	38.8879	36.09	peak	14.71	22.27	0.78	29.31	40.00	-10.69	100	20
4	V	480.5276	34.55	peak	17.31	21.85	2.31	32.32	46.00	-13.68	100	336
5	V	790.6188	30.42	peak	21.29	21.17	2.94	33.48	46.00	-12.52	100	101
6	V	129.4678	30.95	peak	13.28	22.38	1.20	23.05	43.50	-20.45	100	29

Above 1GHz

Frequency (MHz)	Read_level (dBμV/m)	Azimuth	Height (cm)	Polarity (H/V)	Level (dBμV/m)	Factors (dB)	Limit (dBμV/m)	Margin (dB)	Detector (PK/AV)
1068.542	69.37	176	100	V	-20.3	49.07	74	-24.93	PK
1717.915	64.61	157	100	V	-17.09	47.52	74	-26.48	PK
2914.448	61.28	165	100	V	-12.96	48.32	74	-25.68	PK
1103.566	66.42	61	100	H	-20.16	46.26	74	-27.74	PK
1816.036	31.67	158	100	H	16.39	48.06	74	-25.94	PK
3393.901	60.28	104	100	H	-12.76	47.52	74	-26.48	PK

*Note1: The highest frequency of the EUT is 2480 MHz, so the testing has been conformed to 5*2480MHz
=12,400MHz.*

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.

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted Emissions					
EMI test receiver	ESCS30	8471241027	09/15/2017	09/14/2018	☒
Line Impedance Stabilization Network	LI-125A	191106	09/23/2017	09/22/2018	☒
Line Impedance Stabilization Network	LI-125A	191107	09/23/2017	09/22/2018	☒
LISN	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 (0.1-1300MHz)	8447E	2727A02430	08/30/2017	08/29/2018	☒
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/22/2018	03/21/2019	☒
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/19/2017	09/18/2018	☒
Double Ridge Horn Antenna	AH-118	71259	09/22/2017	09/21/2018	☒

Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

Whole Package View



Adapter - Lable View



EUT - Front View



EUT - Rear View



EUT - Top View



EUT - Bottom View



EUT - Left View



EUT - Right View



Annex B.ii. Photograph: EUT Internal Photo

Cover Off - Top View 1



Cover Off - Top View 2



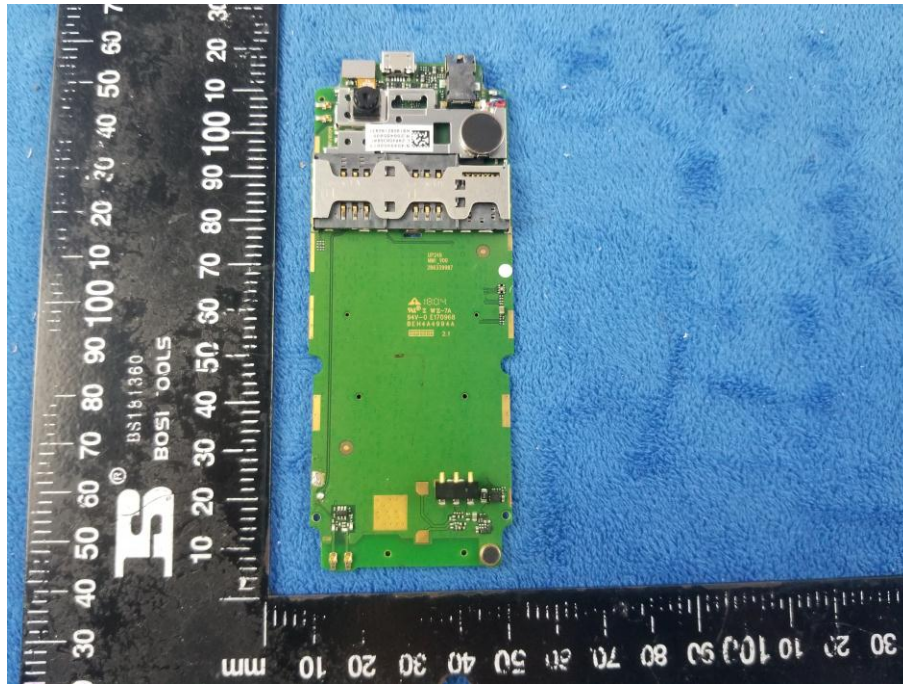
Battery - Front View



Battery - Rear View



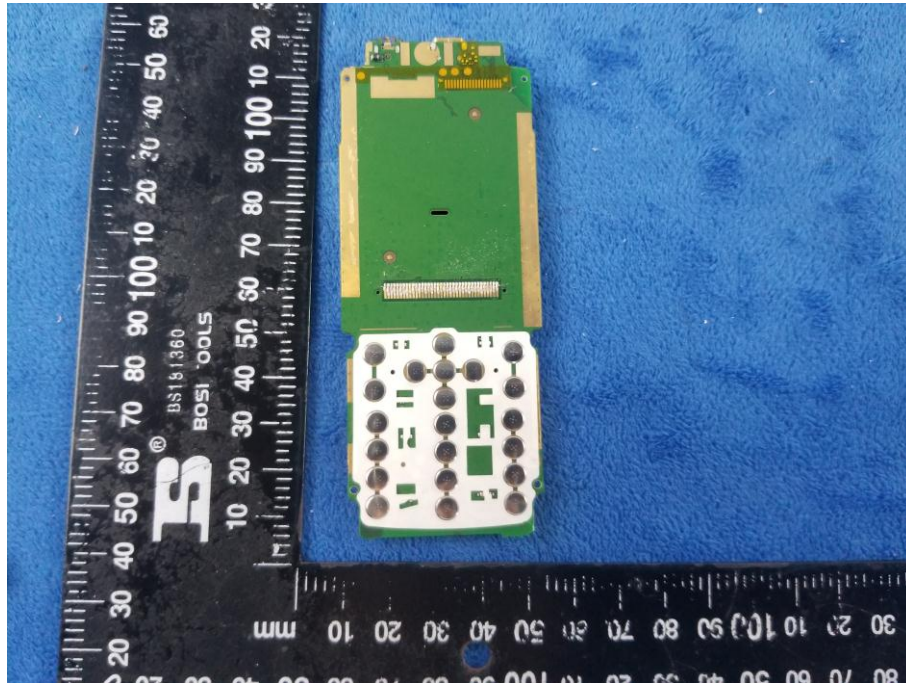
Mainboard with Shielding - Front View



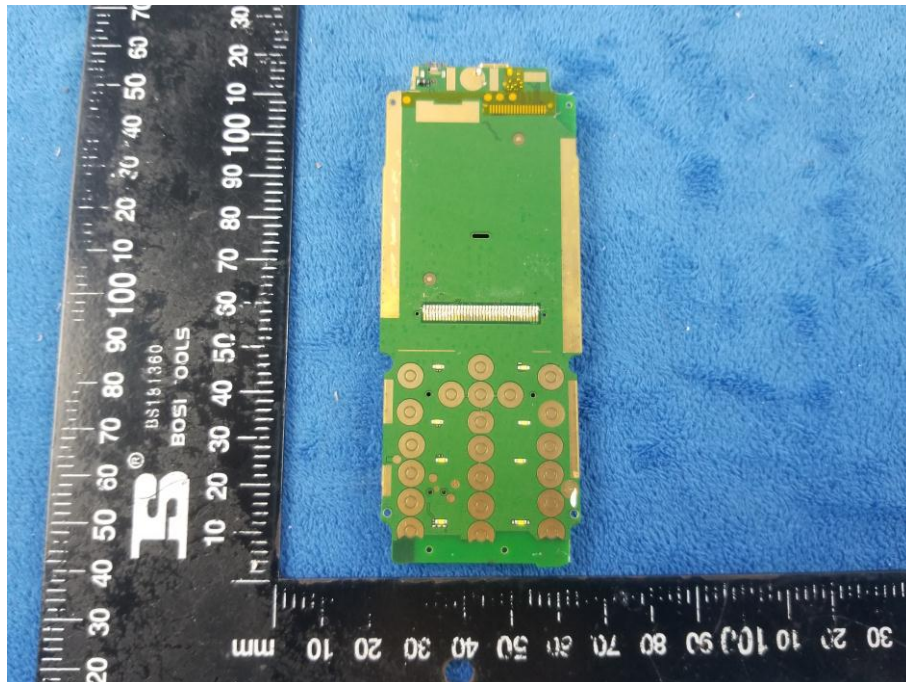
Mainboard without Shielding - Front View



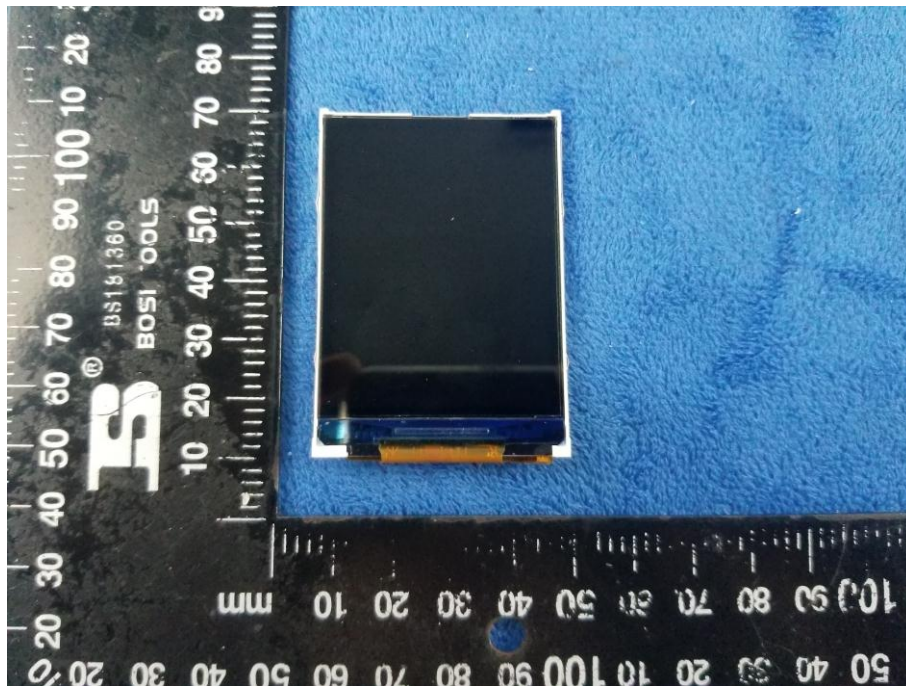
Mainboard with Shielding – Rear View



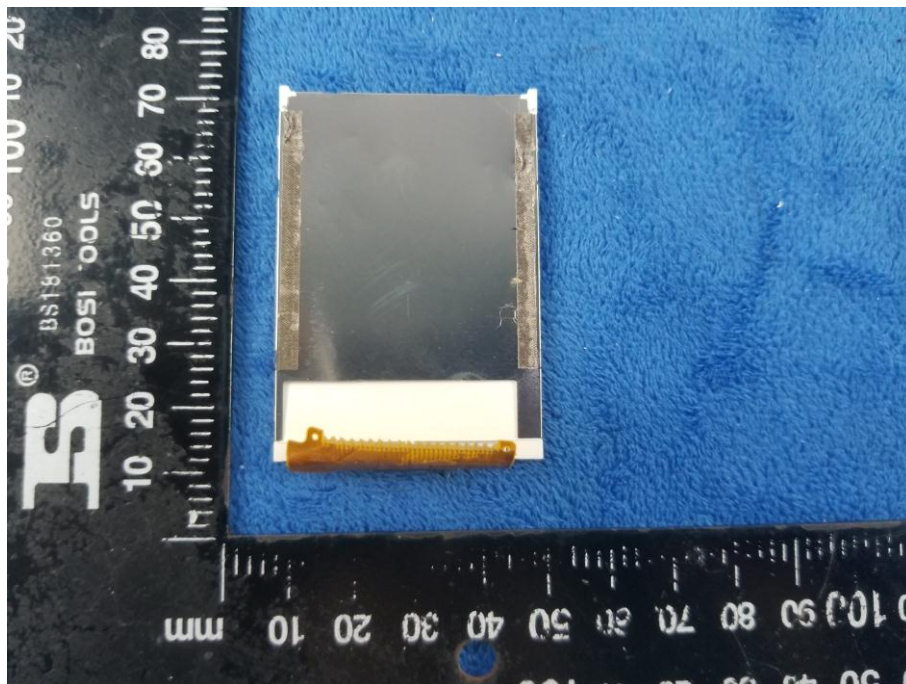
Mainboard without Shielding – Rear View



LCD – Front View



LCD – Rear View



GSM/PCS/UMTS-FDD Antenna View



WIFI/BT/BLE/GPS - Antenna View



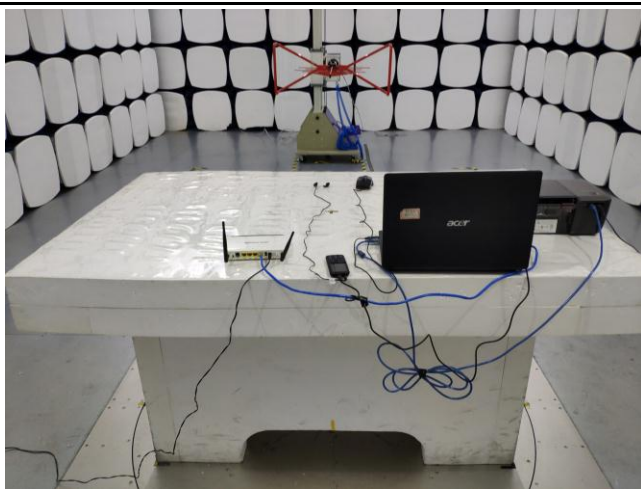
Annex B.iii. Photograph: Test Setup Photo



Conducted Emissions Test Setup – Front View



Conducted Emissions Test Setup – Side View



Radiated Emissions Test Setup Below 1GHz

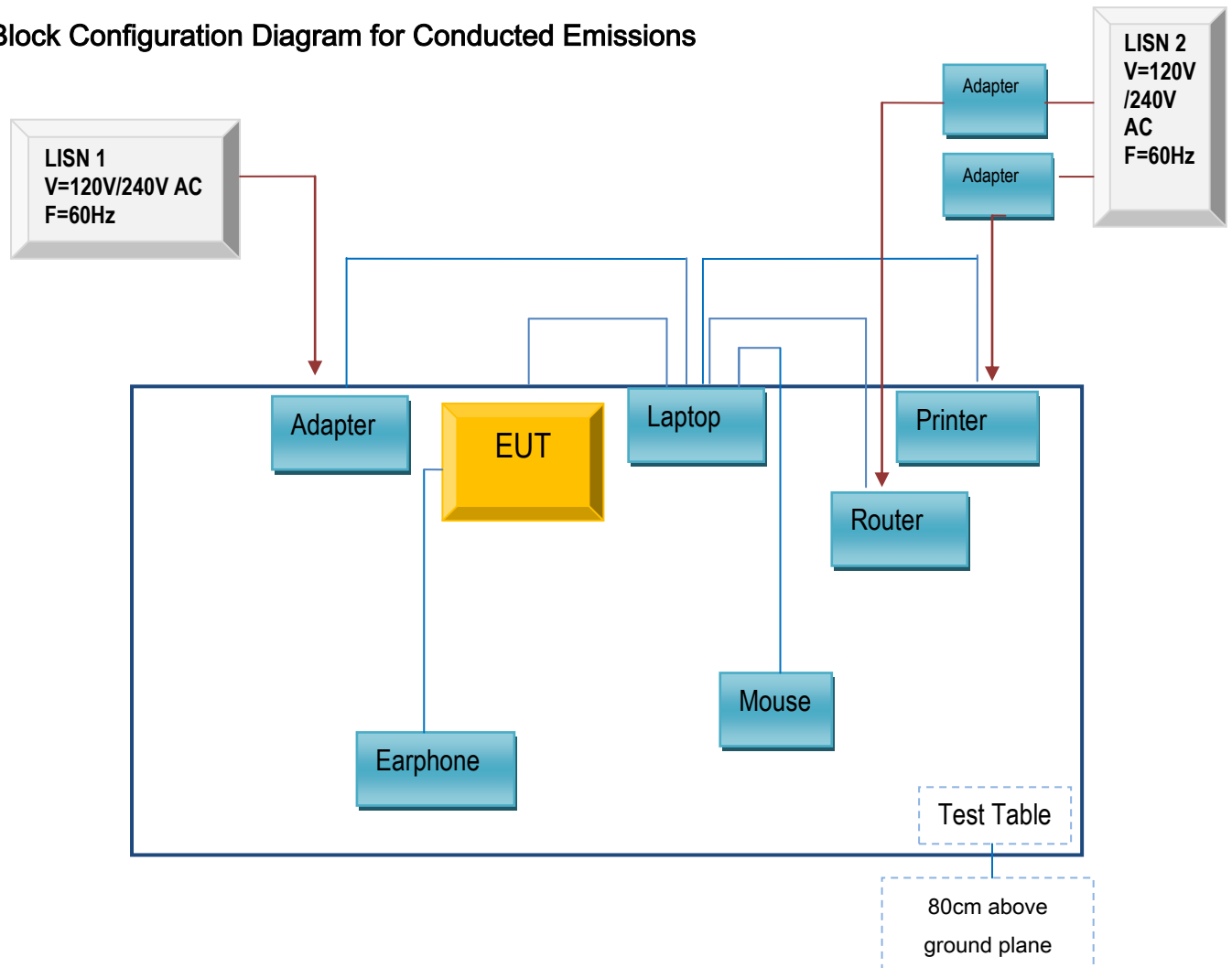


Radiated Emissions Test Setup Above 1GHz

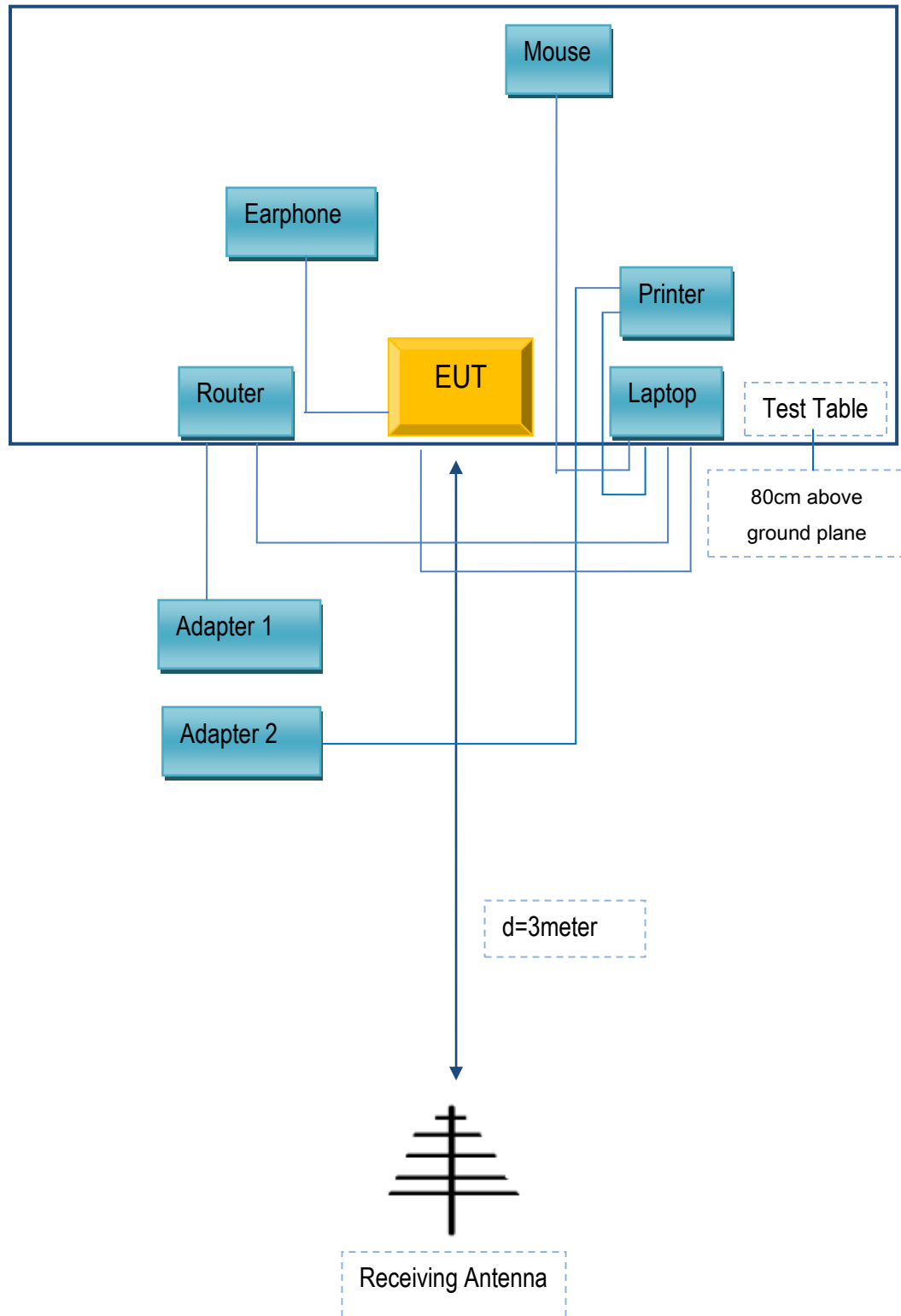
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for Conducted Emissions



Block Configuration Diagram for Radiated Emissions



Annex C. ii. 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
N/A	Earphone	N/A	N/A

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	2m	N/A
USB Cable	Un-shielding	No	2m	N/A
RJ45 Cable	Un-shielding	No	2m	N/A
Router Power cable	Un-shielding	No	2m	N/A
Printer Power cable	Un-shielding	No	2m	N/A
Power Cable	Un-shielding	No	0.8m	N/A

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

Please see the attachment

Annex E. DECLARATION OF SIMILARITY

Please see the attachment