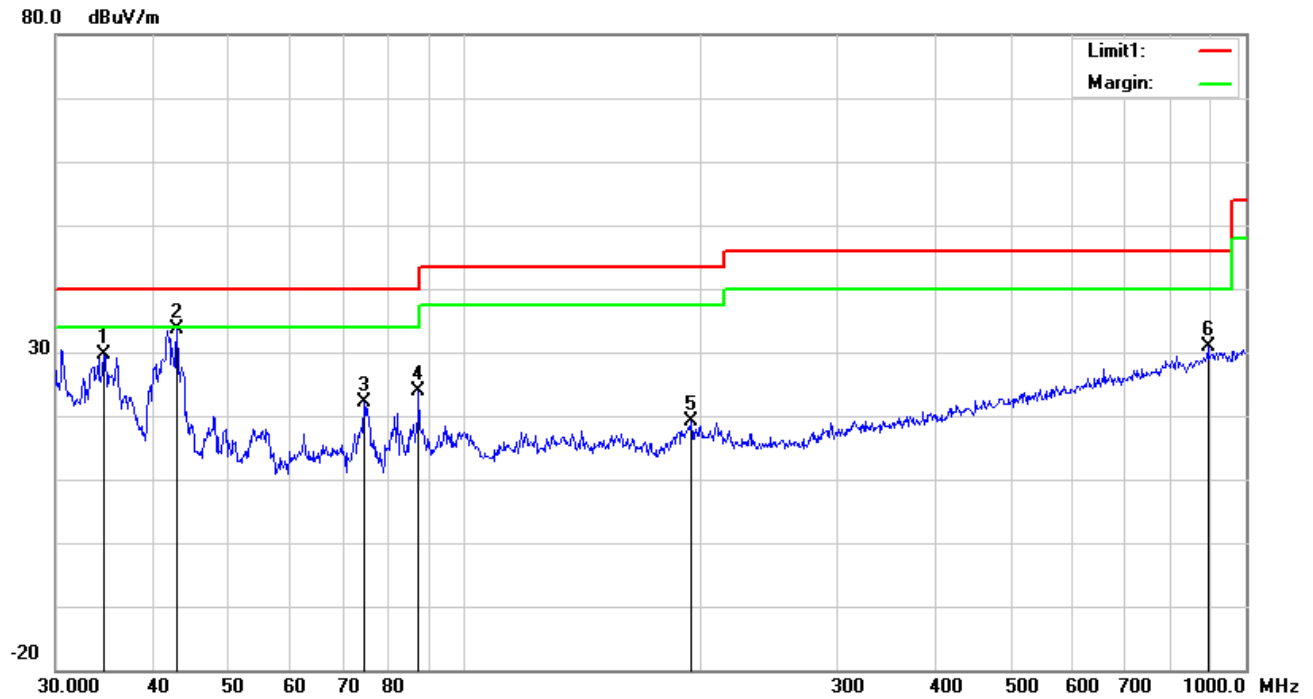


<b>Test Mode:</b>	<b>Transmitting Mode</b>
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**30MHz -1GHz**



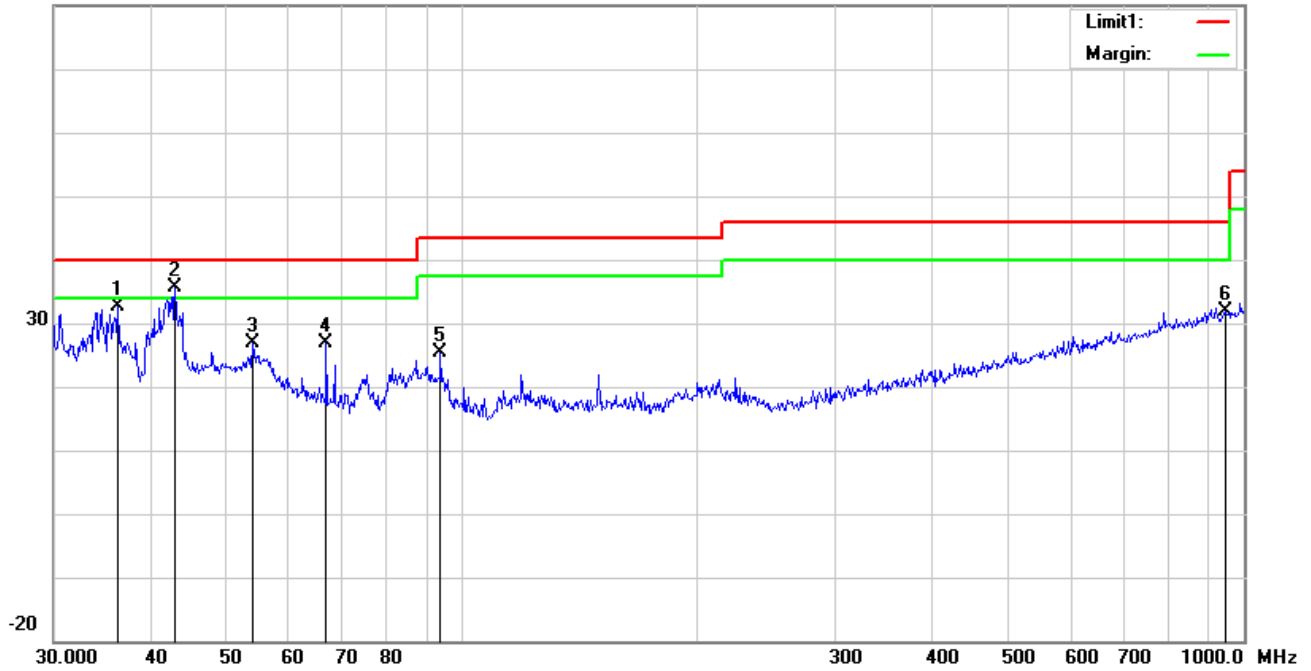
**Test Data**

**Vertical Polarity Plot @3m**

No.	P/L	Frequency	Reading	Detect or	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	H	34.5173	33.17	peak	17.92	22.25	0.75	29.59	40.00	-10.41	100	99
2	H	42.8998	43.09	QP	11.99	22.29	0.77	33.56	40.00	-6.44	100	106
3	H	74.3955	35.98	peak	7.71	22.40	0.96	22.25	40.00	-17.75	100	34
4	H	87.4177	37.34	peak	7.90	22.35	1.01	23.90	40.00	-16.10	100	170
5	H	195.1365	28.03	peak	11.83	22.35	1.54	19.05	43.50	-24.45	100	124
6	H	893.8567	26.34	peak	22.43	20.90	3.05	30.92	46.00	-15.08	100	23

### 30MHz -1GHz

80.0 dBuV/m



### Test Data

#### Horizontal Polarity Plot @3m

N o.	P/L	Frequency (MHz)	Reading (dBuV/m)	Detect or	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	V	36.2541	37.48	peak	16.63	22.26	0.77	32.62	40.00	-7.38	100	157
2	V	42.8998	45.08	QP	11.99	22.29	0.77	35.55	40.00	-4.45	100	18
3	V	53.8818	40.47	peak	7.97	22.39	0.78	26.83	40.00	-13.17	100	39
4	V	66.9669	40.73	peak	7.65	22.39	0.92	26.91	40.00	-13.09	100	227
5	V	93.7685	37.72	peak	8.90	22.32	0.98	25.28	43.50	-18.22	100	146
6	V	945.4399	26.81	peak	22.73	20.79	3.16	31.91	46.00	-14.09	100	117

### Above 1GHz

<b>Test Mode:</b>	<b>Transmitting Mode</b>
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#### Low Channel (2412 MHz) (b mode worst case)

Frequency (MHz)	S.A. Reading (dB $\mu$ V)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
4824	38.46	AV	V	33.39	7.22	48.46	30.61	54	-23.39
4824	38.87	AV	H	33.39	7.22	48.46	31.02	54	-22.98
4824	47.59	PK	V	33.39	7.22	48.46	39.74	74	-34.26
4824	46.99	PK	H	33.39	7.22	48.46	39.14	74	-34.86
9400	24.2	AV	V	39.58	9.73	46.84	26.67	54	-27.33
9400	23.08	AV	H	39.58	9.73	46.84	25.55	54	-28.45
9400	40.44	PK	V	39.58	9.73	46.84	42.91	74	-31.09
9400	38.58	PK	H	39.58	9.73	46.84	41.05	74	-32.95

#### Middle Channel (2437 MHz) (b mode worst case)

Frequency (MHz)	S.A. Reading (dB $\mu$ V)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
4874	38.34	AV	V	33.62	7.53	48.36	31.13	54	-22.87
4874	39.33	AV	H	33.62	7.53	48.36	32.12	54	-21.88
4874	48.07	PK	V	33.62	7.53	48.36	40.86	74	-33.14
4874	47.97	PK	H	33.62	7.53	48.36	40.76	74	-33.24
13925	23.65	AV	V	40.34	12.81	46.37	30.43	54	-23.57
13925	22.89	AV	H	40.34	12.81	46.37	29.67	54	-24.33
13925	40.25	PK	V	40.34	12.81	46.37	47.03	74	-26.97
13925	39.13	PK	H	40.34	12.81	46.37	45.91	74	-28.09

**High Channel (2462 MHz) (b mode worst case)**

Frequency (MHz)	S.A. Reading (dB $\mu$ V)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
4924	39.28	AV	V	33.74	7.78	48.34	32.46	54	-21.54
4924	39.45	AV	H	33.74	7.78	48.34	32.63	54	-21.37
4924	47.14	PK	V	33.74	7.78	48.34	40.32	74	-33.68
4924	47.99	PK	H	33.74	7.78	48.34	41.17	74	-32.83
17920	23.13	AV	V	43.21	19.44	44.4	41.38	54	-12.62
17920	23.11	AV	H	43.21	19.44	44.4	41.36	54	-12.64
17920	39.93	PK	V	43.21	19.44	44.4	58.18	74	-15.82
17920	39.01	PK	H	43.21	19.44	44.4	57.26	74	-16.74

**Note:**

- 1, The testing has been conformed to  $10 \times 2462 \text{MHz} = 24,620 \text{MHz}$
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

## Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
<b>AC Line Conducted</b>					
EMI test receiver	ESCS30	8471241027	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Line Impedance	LI-125A	191106	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>
Line Impedance	LI-125A	191107	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>
ISN	ISN T800	34373	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	<input checked="" type="checkbox"/>
Transient Limiter	LIT-153	531118	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
<b>RF conducted test</b>					
Agilent ESA-E SERIES	E4407B	MY45108319	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Power Splitter	1#	1#	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
DC Power Supply	E3640A	MY40004013	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
<b>Radiated Emissions</b>					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Positioning Controller	UC3000	MF780208282	11/18/2016	11/17/2017	<input checked="" type="checkbox"/>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	<input checked="" type="checkbox"/>
Active Antenna (9kHz-30MHz)	AL-130	121031	10/13/2016	10/12/2017	<input checked="" type="checkbox"/>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	<input checked="" type="checkbox"/>
Universal Radio Communication Tester	CMU200	121393	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>

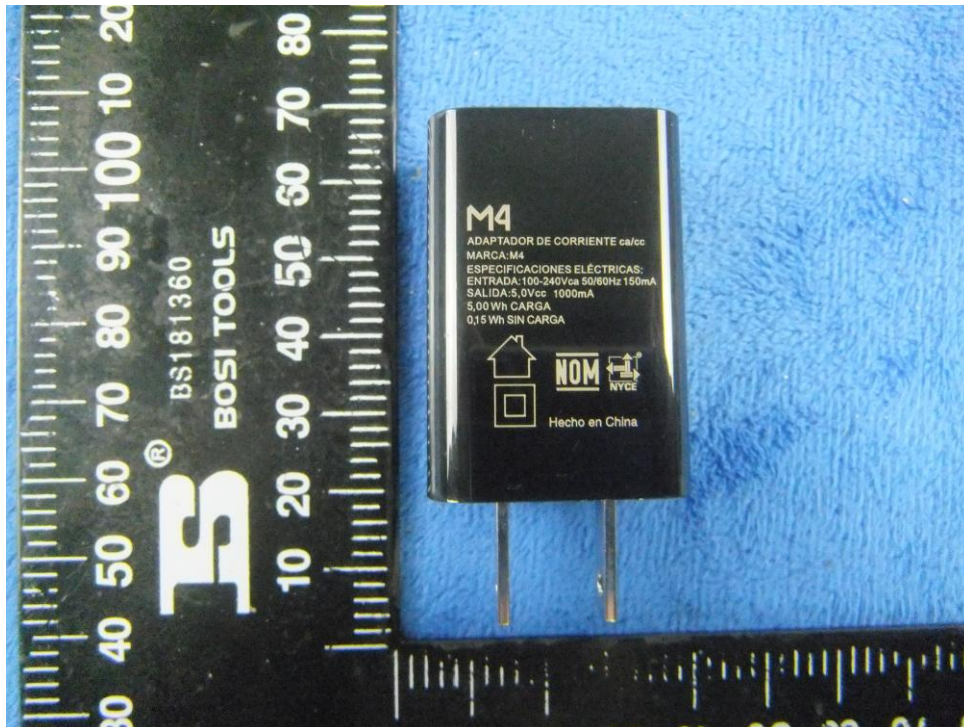
## Annex B. EUT and Test Setup Photographs

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

Whole Package View



Adapter - Label View



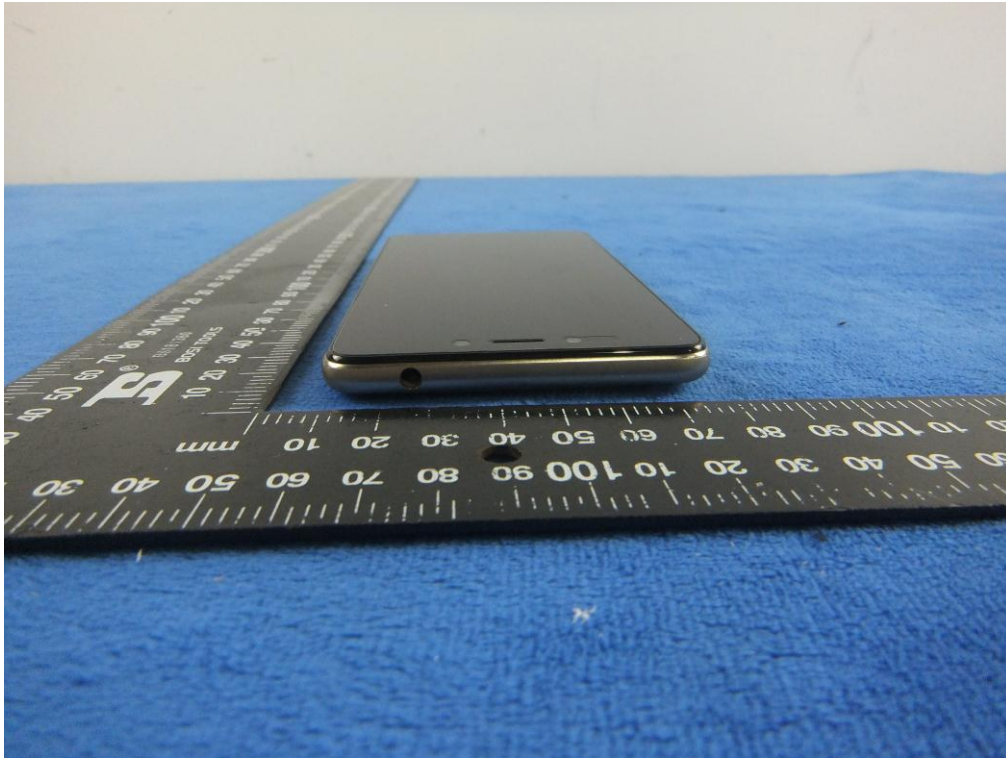
EUT - Front View



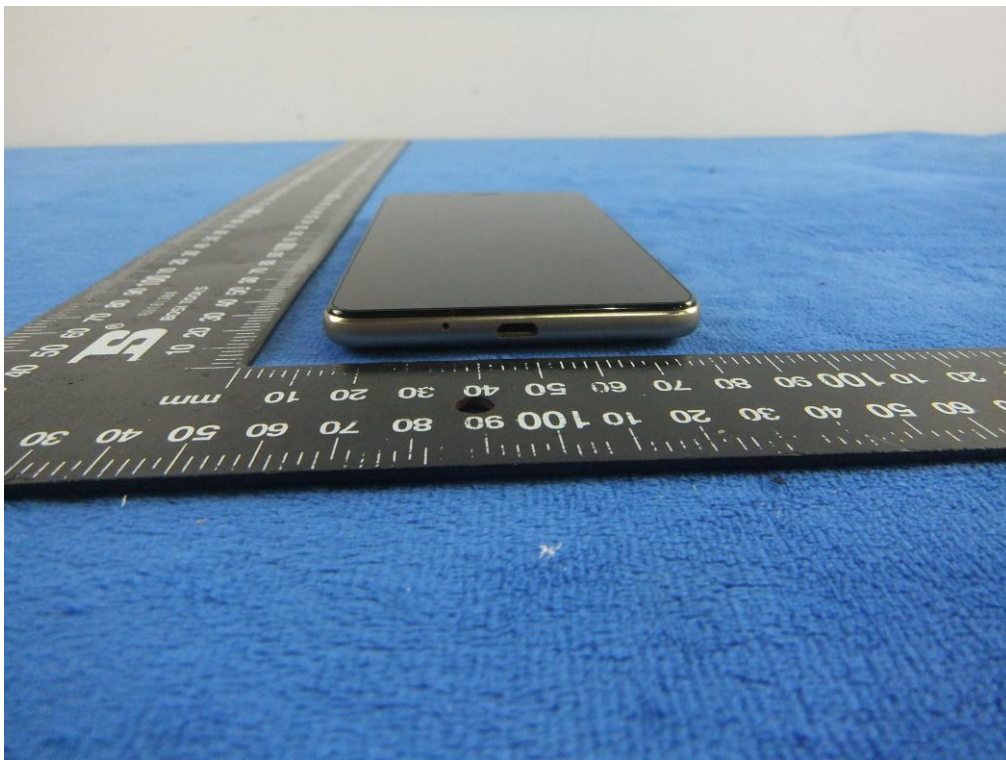
EUT - Rear View



EUT - Top View

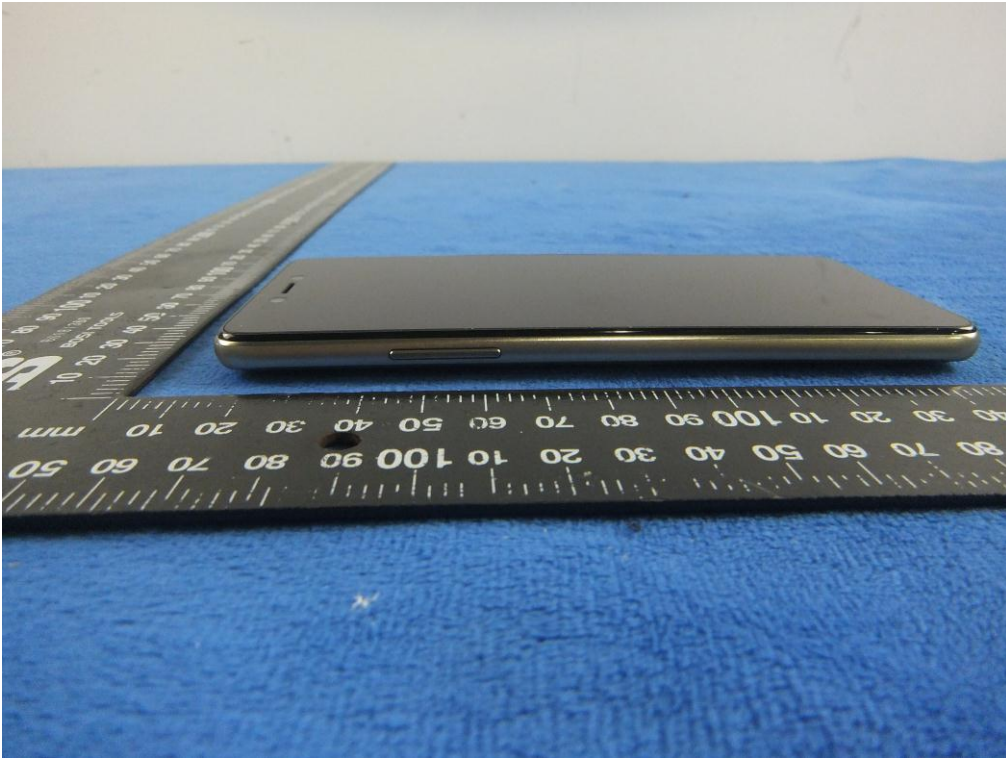


EUT - Bottom View

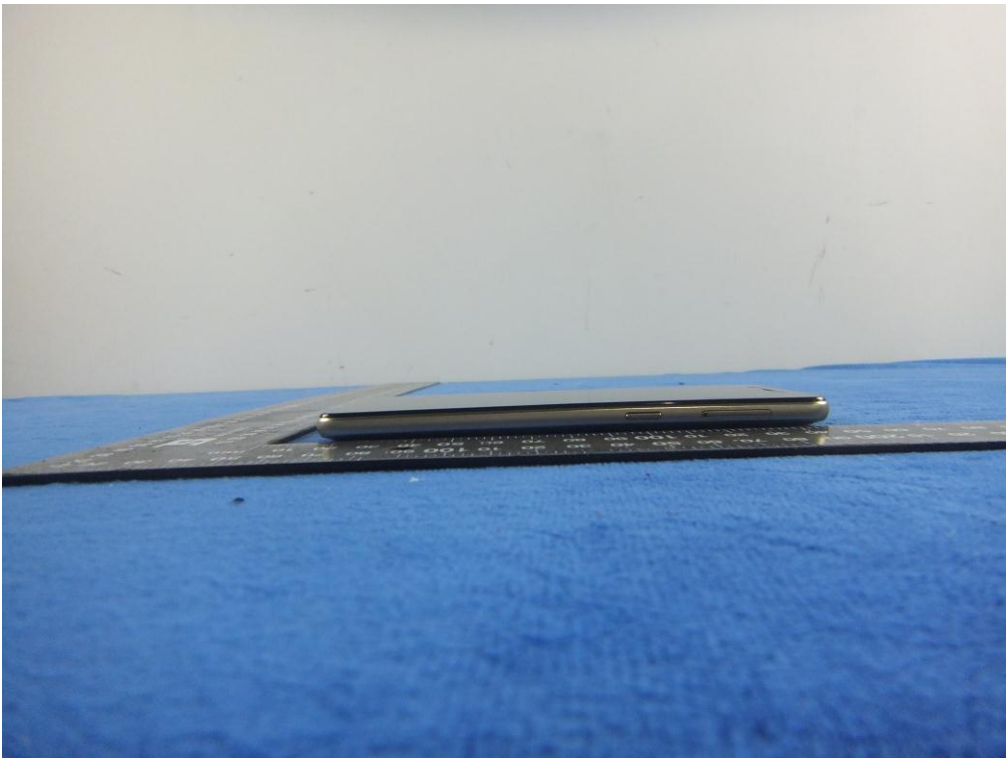




EUT - Left View



EUT - Right View



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

Cover Off - Top View 1



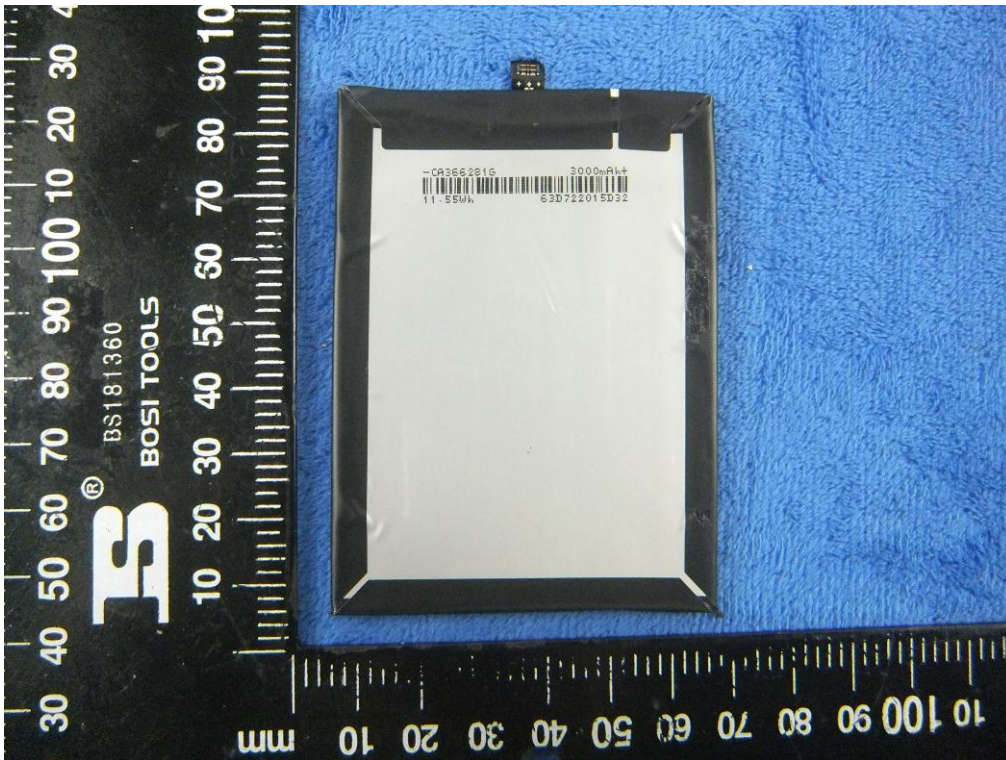
Cover Off - Top View 2



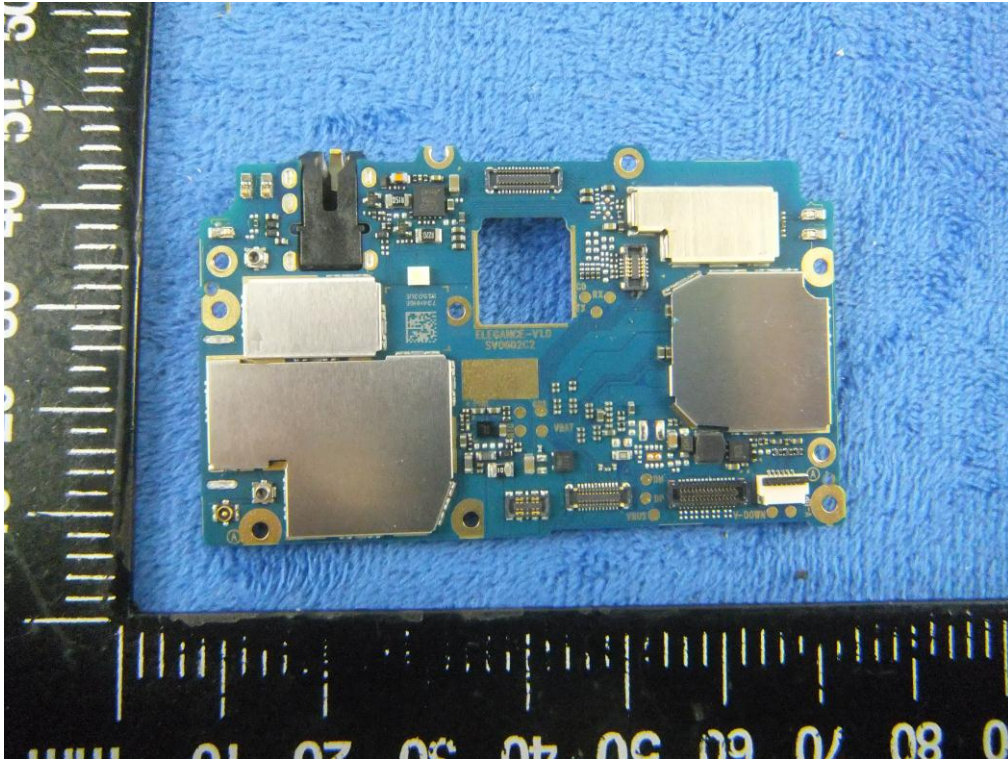
Battery - Front View



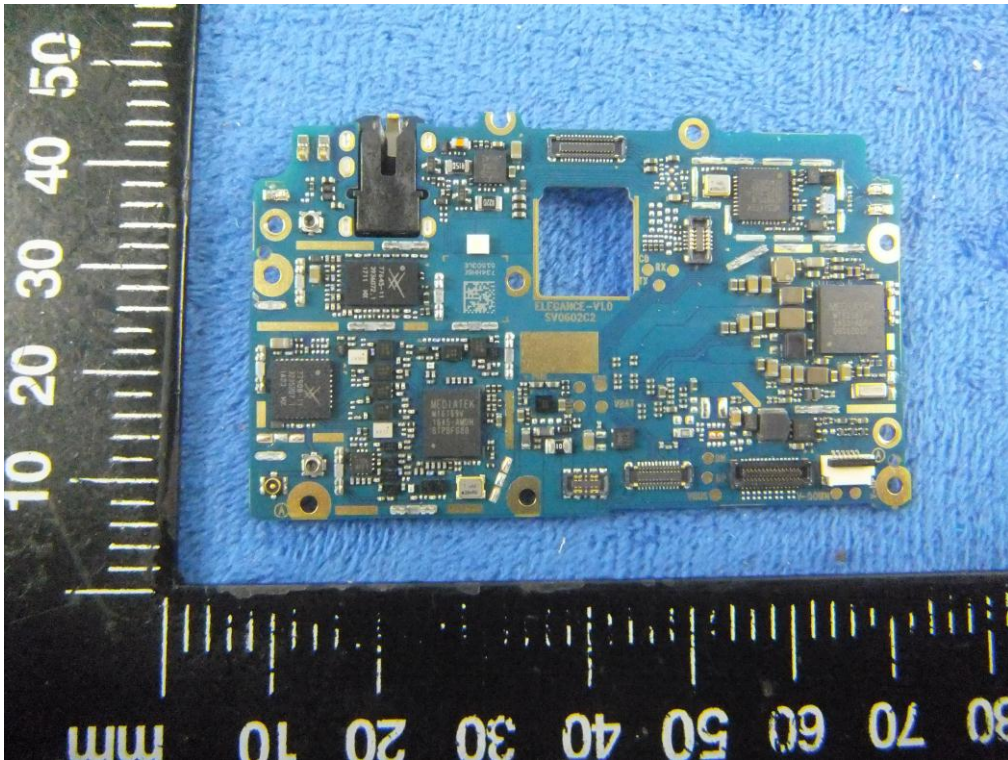
Battery - Rear View



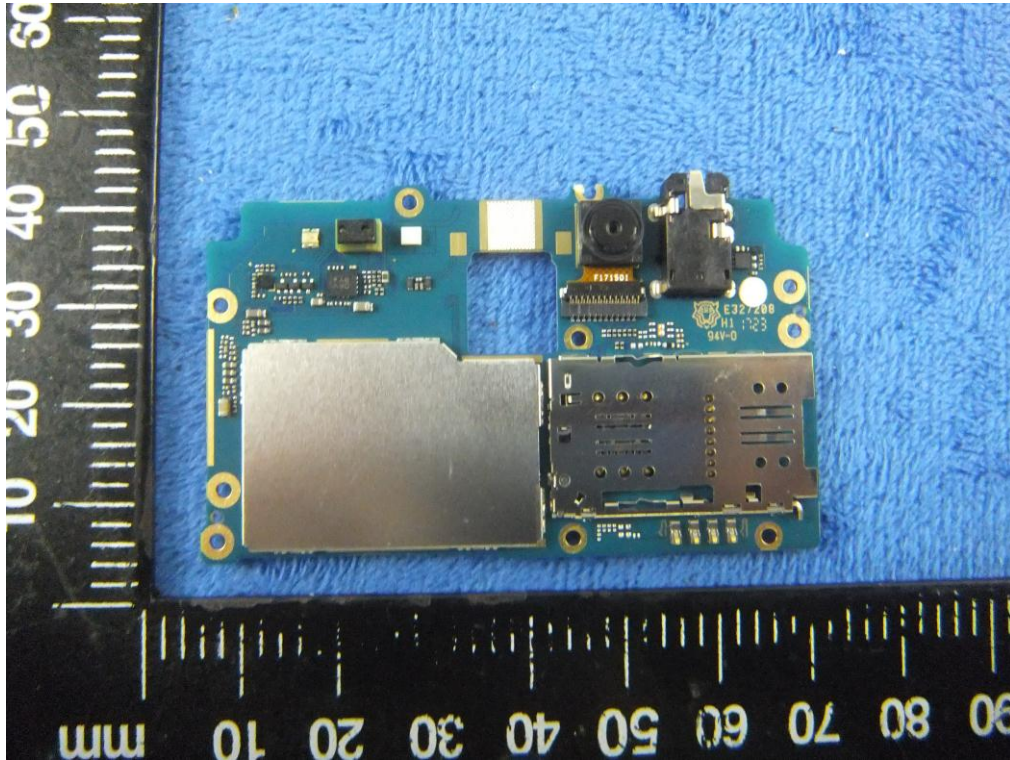
Mainboard with Shielding - Front View



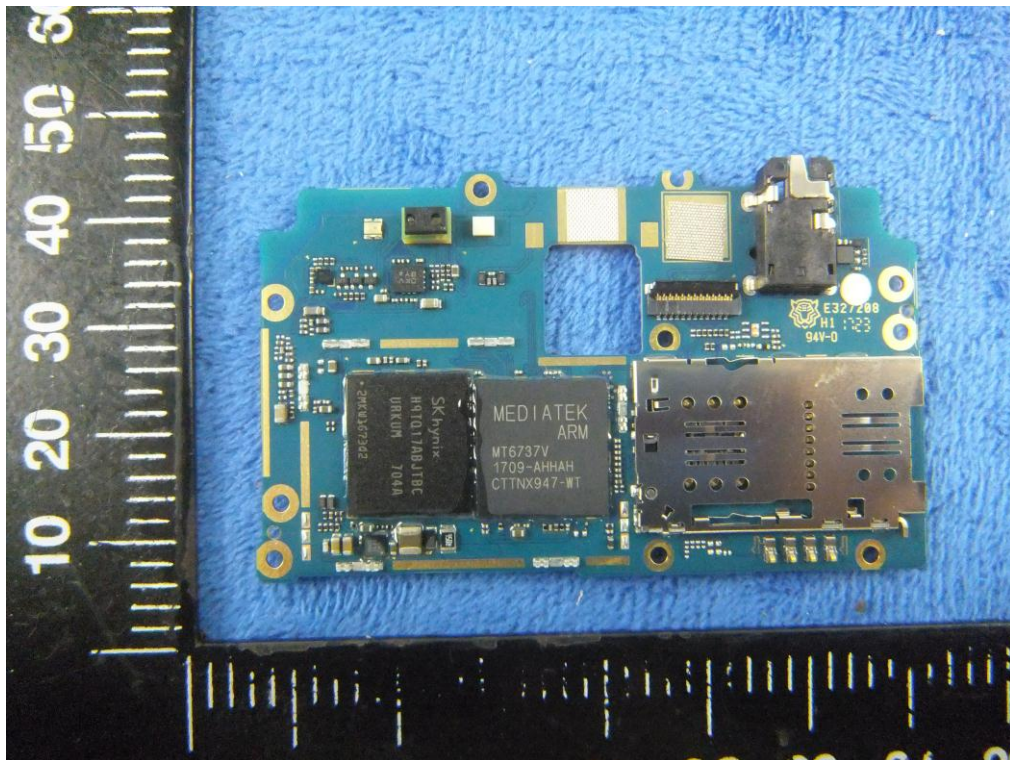
Mainboard without Shielding - Front View



Mainboard with Shielding – Rear View



Mainboard without Shielding – Rear View



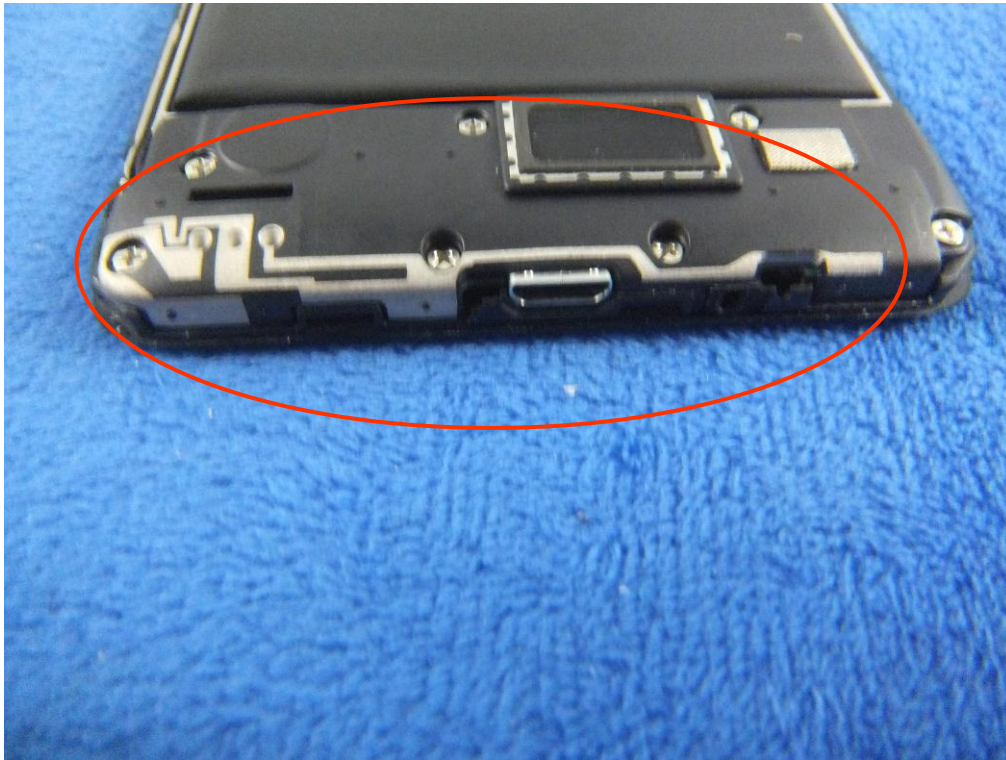
LCD – Front View



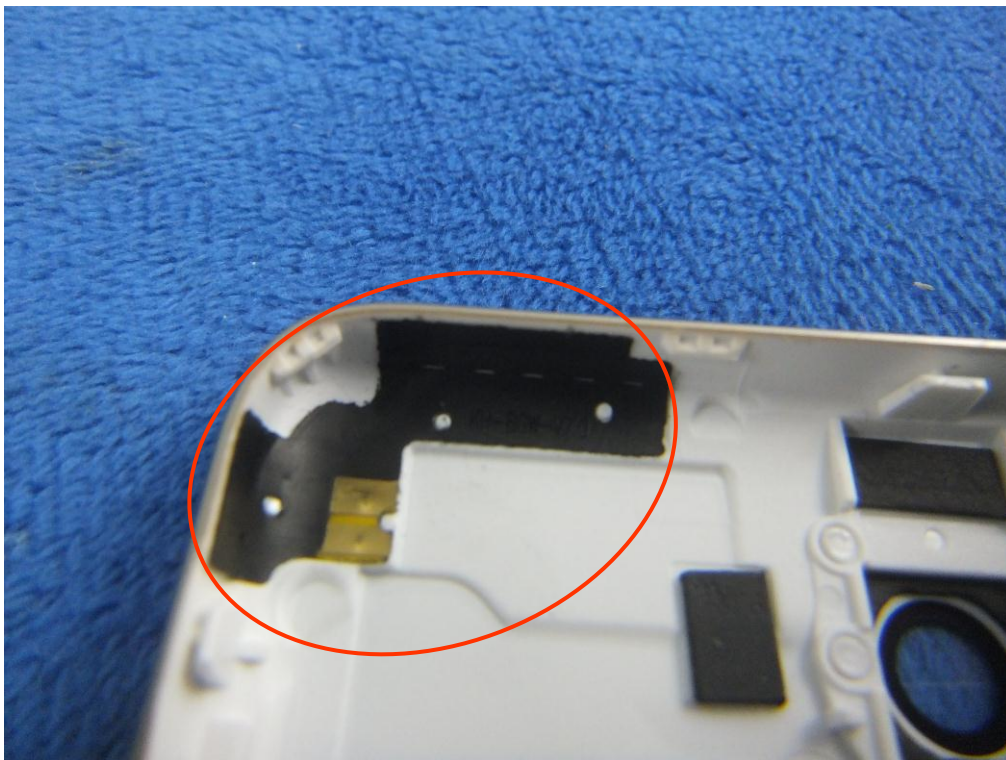
LCD – Rear View



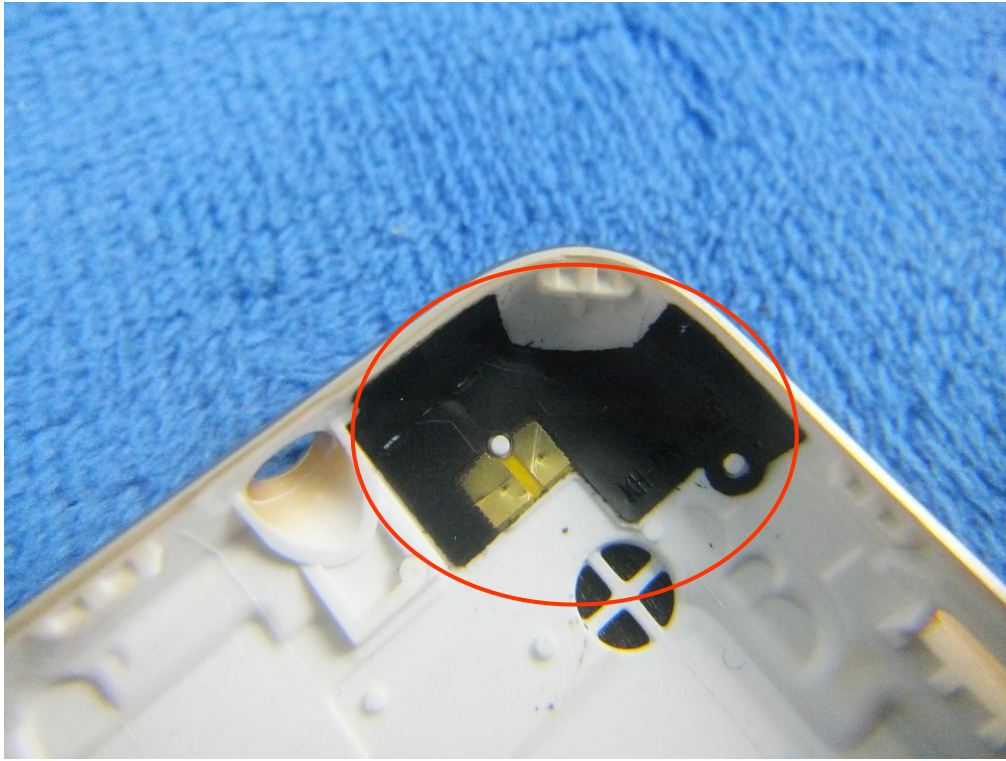
GSM/PCS/UMTS-FDD Antenna View



WIFI/BT/BLE - Antenna View



LTE - Antenna View





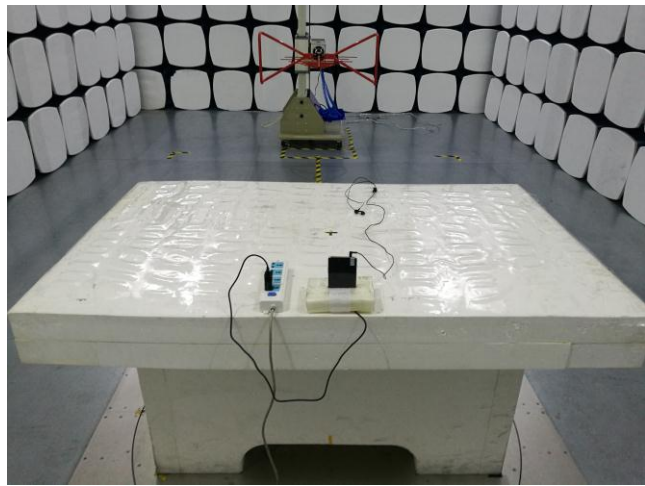
**Annex B.iii. Photograph: Test Setup Photo**



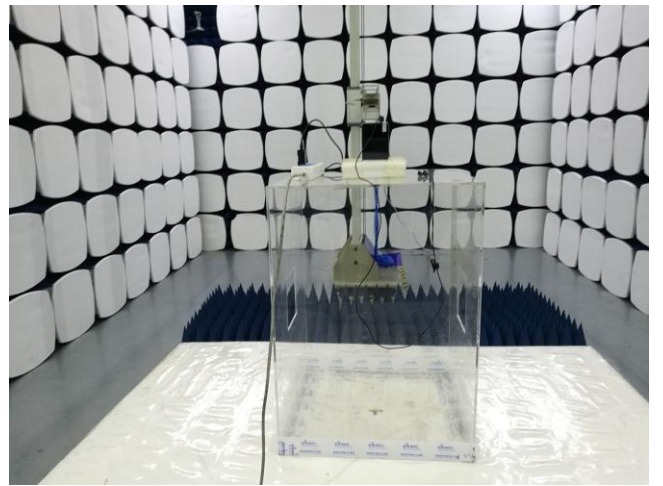
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz

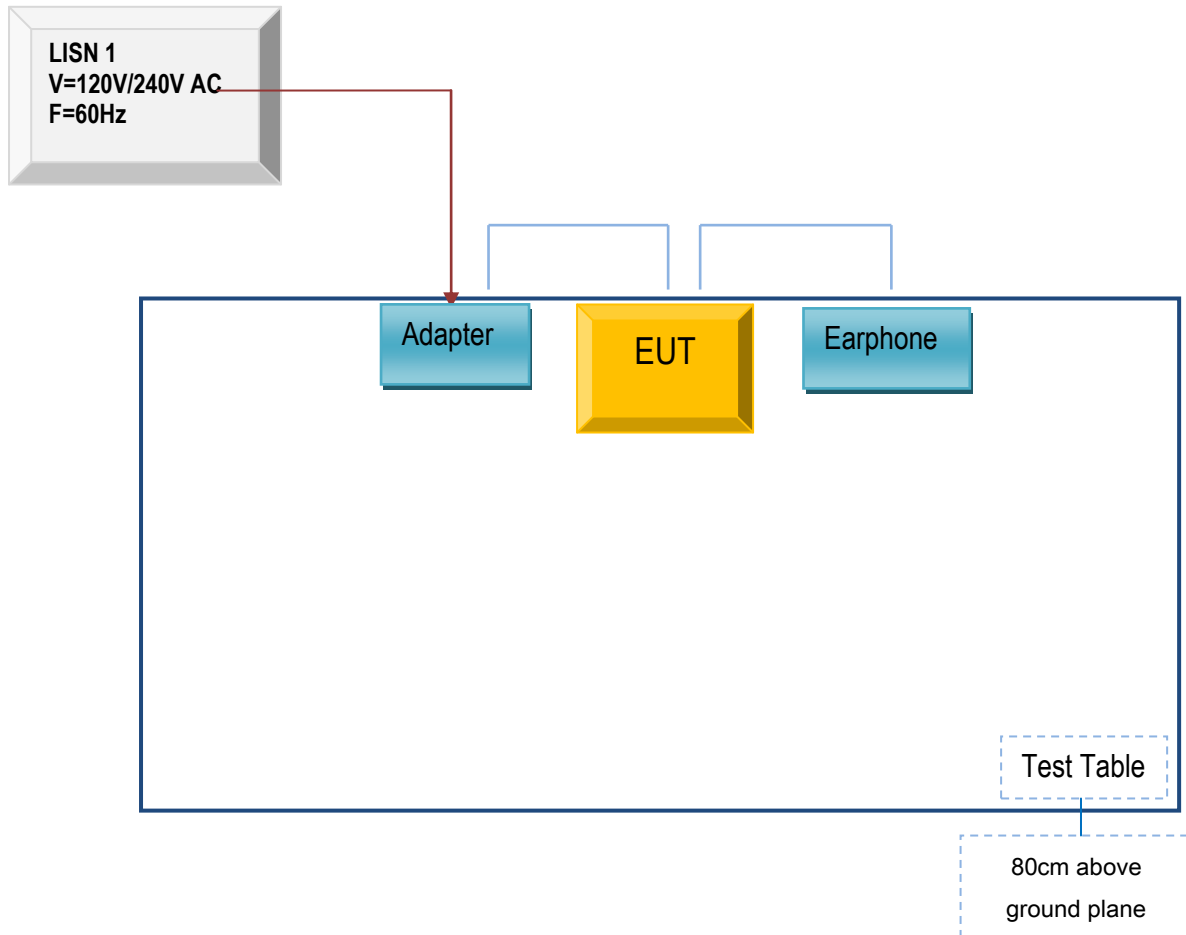


Radiated Spurious Emissions Test Setup Above  
1GHz

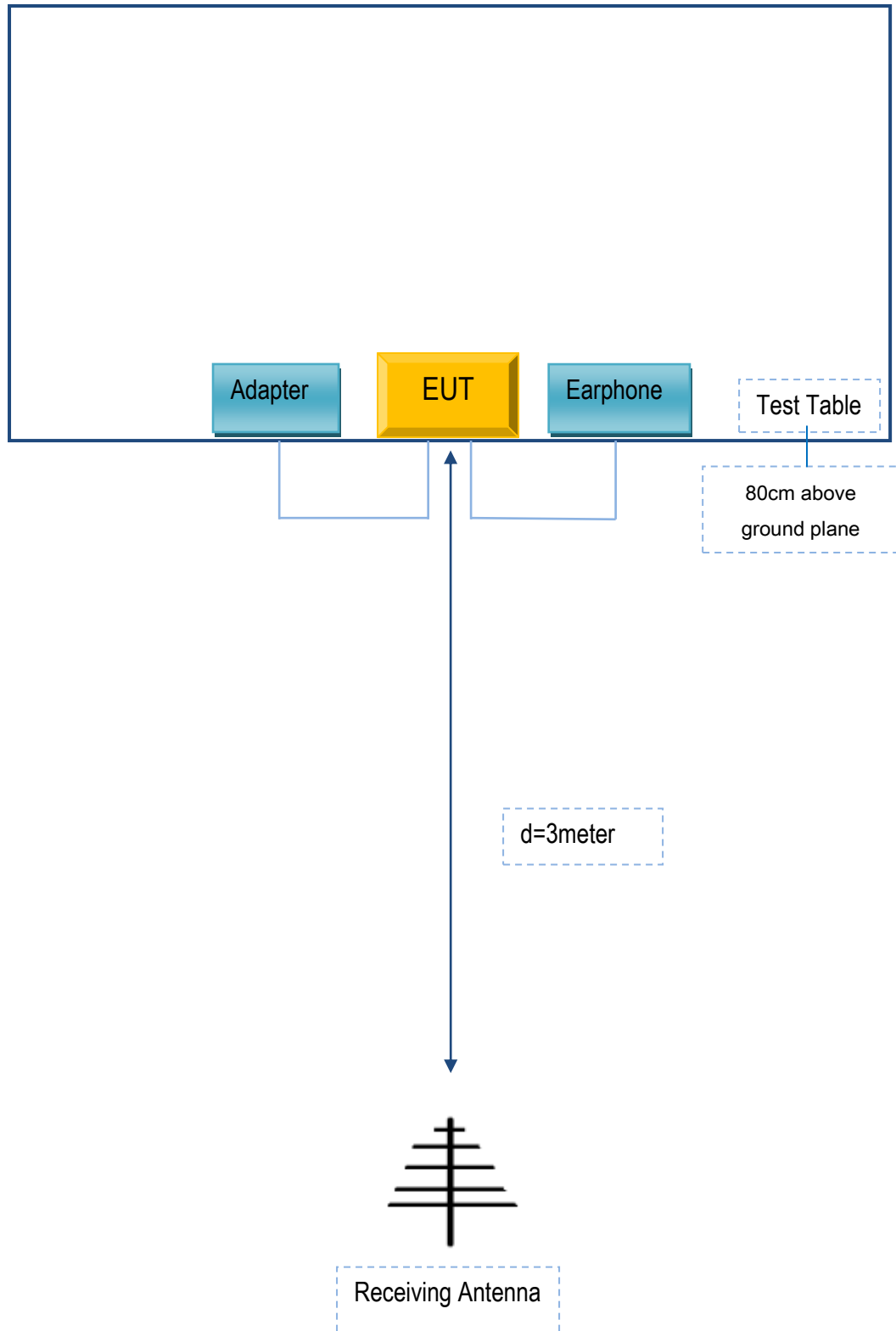
## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

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

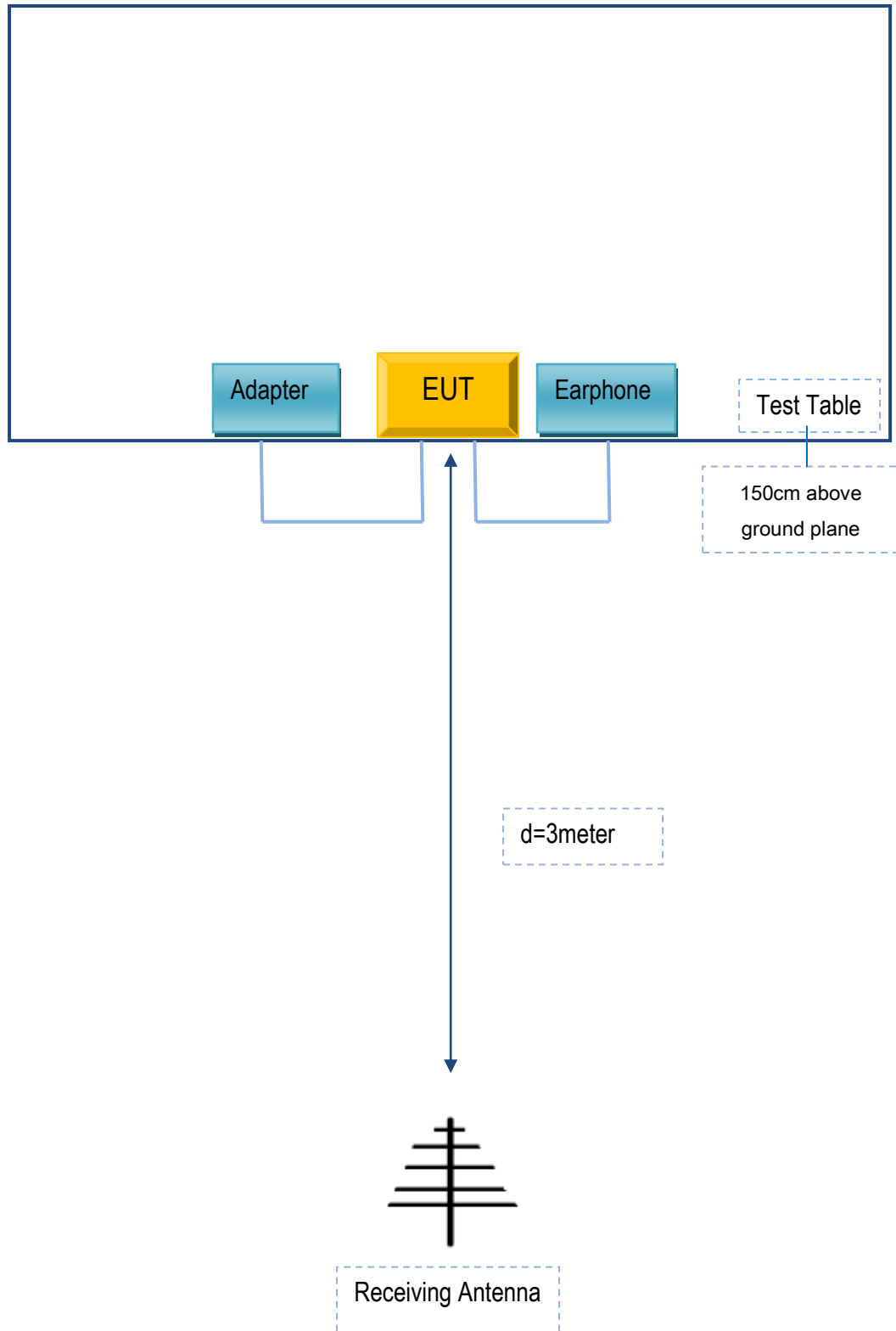
#### Block Configuration Diagram for AC Line Conducted Emissions



**Block Configuration Diagram for Radiated Emissions ( Below 1GHz ) .**



**Block Configuration Diagram for Radiated Emissions ( Above 1GHz ) .**



## **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
MFOURTEL MEXICO S.A. DE C.V.	Adapter	A8-501000	N/A
MFOURTEL MEXICO S.A. DE C.V.	Earphone	M4 SS4453-R	N/A

### **Supporting Cable:**

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	N/A
Earphone Cables	Un-shielding	No	0.5m	N/A

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

Please see the attachment

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## Annex E. DECLARATION OF SIMILARITY

N/A