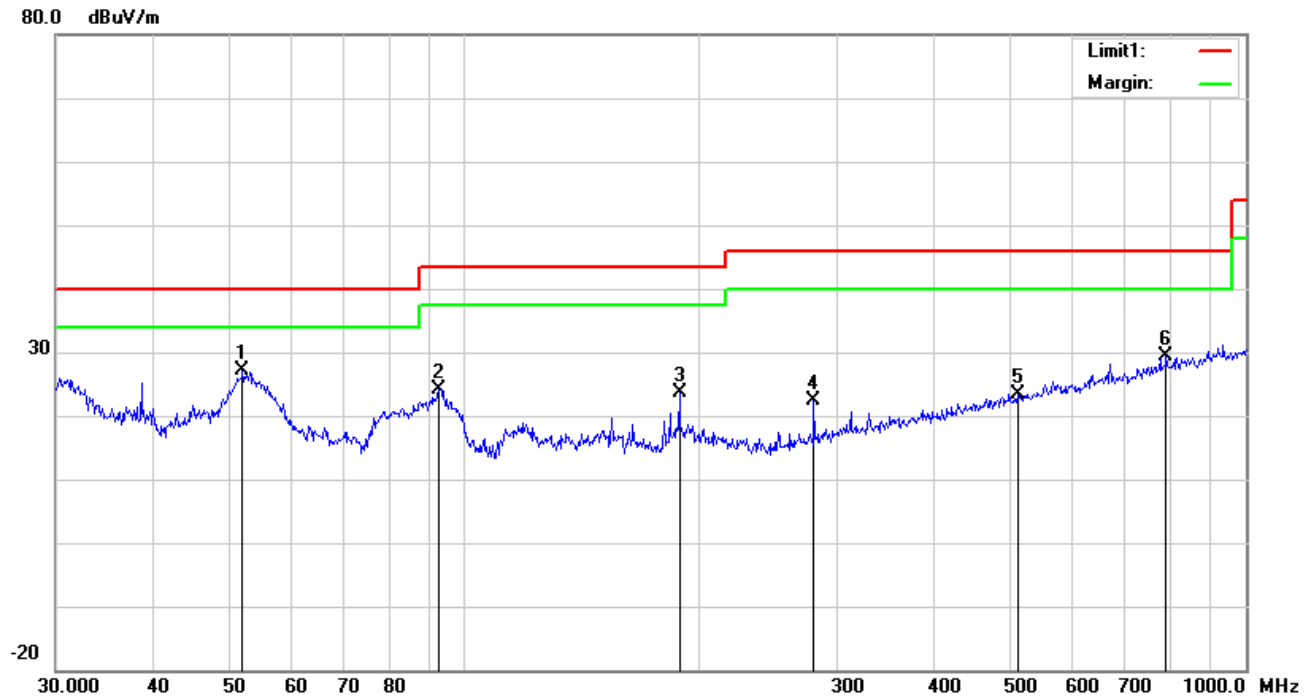


Test Mode: Transmitting Mode

30MHz -1GHz

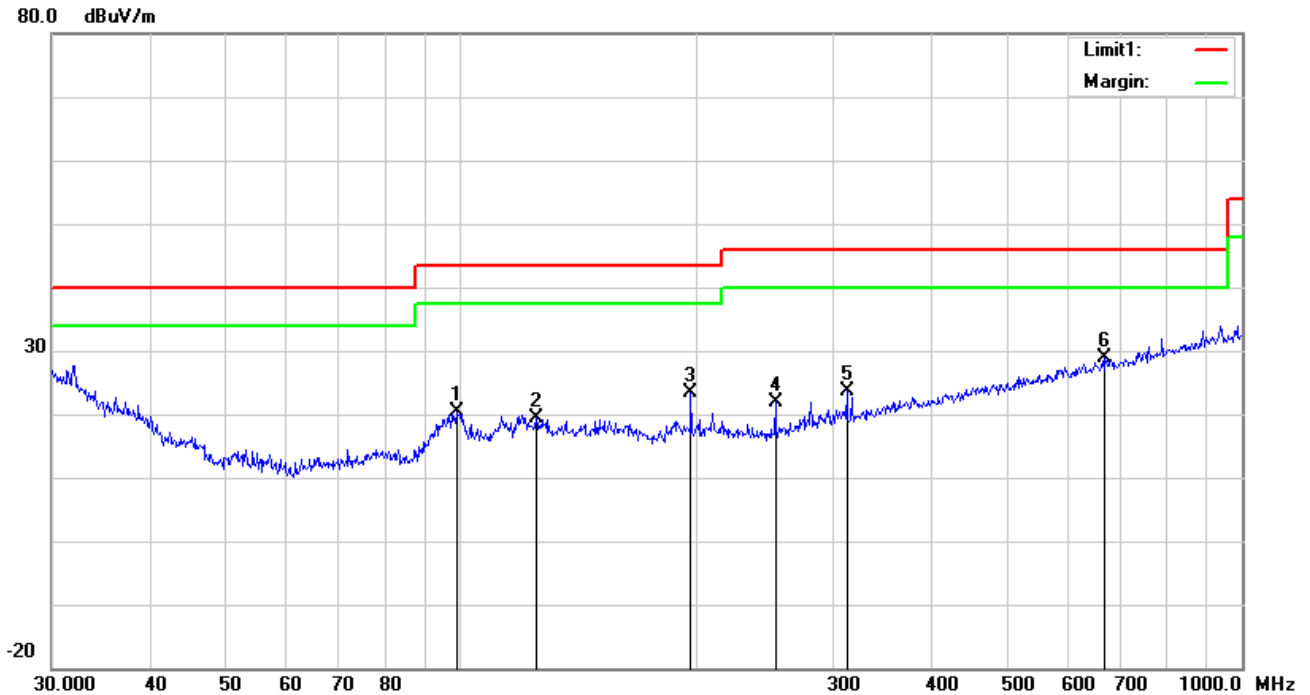


Test Data

Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect or	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr ee
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	V	52.0251	40.47	peak	8.18	22.39	0.79	27.05	40.00	-12.95	100	108
2	V	92.7872	36.89	peak	8.67	22.32	0.97	24.21	43.50	-19.29	100	280
3	V	188.4125	32.89	peak	11.46	22.30	1.51	23.56	43.50	-19.94	100	187
4	V	280.0238	30.18	peak	12.72	22.29	1.75	22.36	46.00	-23.64	100	168
5	V	511.8352	24.84	peak	17.87	21.78	2.43	23.36	46.00	-22.64	100	129
6	V	790.6188	26.44	peak	21.29	21.17	2.94	29.50	46.00	-16.50	200	98

30MHz -1GHz



Test Data

Horizontal Polarity Plot @3m

N o.	P/ L	Frequency	Reading	Detect or	Ant_F	PA_G	Cab_ L	Result	Limit	Margin	Height	Degr ee
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	()
1	H	98.8326	31.46	peak	10.12	22.32	1.09	20.35	43.50	-23.15	100	250
2	H	125.0066	26.90	peak	13.57	22.37	1.18	19.28	43.50	-24.22	100	26
3	H	197.2001	32.14	peak	11.95	22.36	1.54	23.27	43.50	-20.23	100	273
4	H	252.9482	31.03	peak	11.53	22.29	1.71	21.98	46.00	-24.02	100	12
5	H	312.1794	30.11	peak	13.86	22.26	1.85	23.56	46.00	-22.44	100	152
6	H	668.1423	27.74	peak	19.85	21.43	2.60	28.76	46.00	-17.24	100	140

Above 1GHz

Test Mode:	Transmitting Mode
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Low Channel (2412 MHz) (g mode worst case)

Frequency (MHz)	S.A. Reading (dBμV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4824	45.71	AV	V	33.39	7.22	48.46	37.86	54	-16.14
4824	43.22	AV	H	33.39	7.22	48.46	35.37	54	-18.63
4824	68.73	PK	V	33.39	7.22	48.46	60.88	74	-13.12
4824	63.99	PK	H	33.39	7.22	48.46	56.14	74	-17.86
12904	18.24	AV	V	40.12	13.39	46.42	25.33	54	-28.67
12904	20.7	AV	H	40.12	13.39	46.42	27.79	54	-26.21
12904	49.01	PK	V	40.12	13.39	46.42	56.1	74	-17.9
12904	48.81	PK	H	40.12	13.39	46.42	55.9	74	-18.1

Middle Channel (2437 MHz) (g mode worst case)

Frequency (MHz)	S.A. Reading (dBμV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4874	43.52	AV	V	33.62	7.53	48.36	36.31	54	-17.69
4874	44.81	AV	H	33.62	7.53	48.36	37.6	54	-16.4
4874	68.44	PK	V	33.62	7.53	48.36	61.23	74	-12.77
4874	63.14	PK	H	33.62	7.53	48.36	55.93	74	-18.07
8093	38.26	AV	V	38.25	7.34	47.59	36.26	54	-17.74
8093	39.64	AV	H	38.25	7.34	47.59	37.64	54	-16.36
8093	52.35	PK	V	38.25	7.34	47.59	50.35	74	-23.65
8093	51.69	PK	H	38.25	7.34	47.59	49.69	74	-24.31

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

Frequency (MHz)	S.A. Reading (dBμV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4924	43.97	AV	V	33.74	7.78	48.34	37.15	54	-16.85
4924	43.55	AV	H	33.74	7.78	48.34	36.73	54	-17.27
4924	67.38	PK	V	33.74	7.78	48.34	60.56	74	-13.44
4924	64.69	PK	H	33.74	7.78	48.34	57.87	74	-16.13
17871	18.33	AV	V	42.79	19.44	43.62	36.94	54	-17.06
17904	19.51	AV	H	42.79	19.44	43.62	38.12	54	-15.88
17904	39.98	PK	V	42.79	19.44	43.62	58.59	74	-15.41
17904	40.58	PK	H	42.79	19.44	43.62	59.19	74	-14.81

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.
- 4, The radiated spurious test above 18GHz is subcontracted to SIEMIC (Nanjing-China) Laboratories. and found 30dB below the limit at least.

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/15/2017	09/14/2018	☒
Line Impedance	LI-125A	191106	09/23/2017	09/22/2018	☒
Line Impedance	LI-125A	191107	09/23/2017	09/22/2018	☒
ISN	ISN T800	34373	09/23/2017	09/22/2018	☐
Transient Limiter	LIT-153	531118	08/30/2017	08/29/2018	☐
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/15/2017	09/14/2018	☒
Power Splitter	1#	1#	08/30/2017	08/29/2018	☒
DC Power Supply	E3640A	MY40004013	09/15/2017	09/14/2018	☒
Radiated Emissions					
EMI test receiver	ESL6	100262	09/15/2017	09/14/2018	☒
Positioning Controller	UC3000	MF780208282	11/17/2017	11/16/2018	☒
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/30/2017	08/29/2018	☒
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	☒
Horn Antenna	BBHA9170	3145226D1	09/27/2017	09/26/2018	☒
Active Antenna (9kHz-30MHz)	AL-130	121031	10/12/2017	10/11/2018	☒
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/19/2017	09/18/2018	☒
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/22/2017	09/21/2018	☒
Universal Radio Communication Tester	CMU200	121393	09/23/2017	09/22/2018	☒

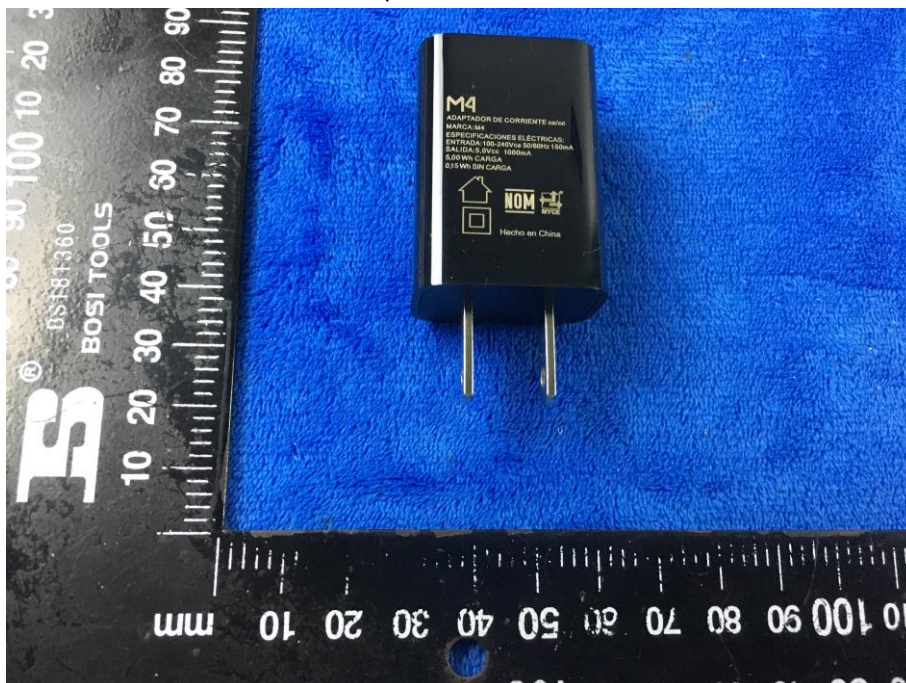
Annex B. EUT and Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

Whole Package View



Adapter - Label View



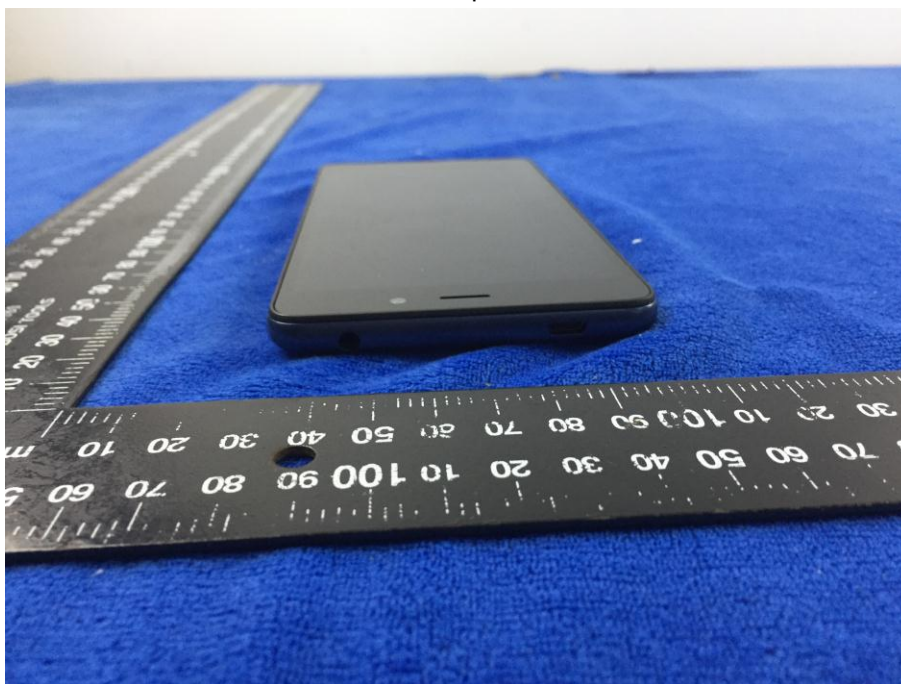
EUT - Front View



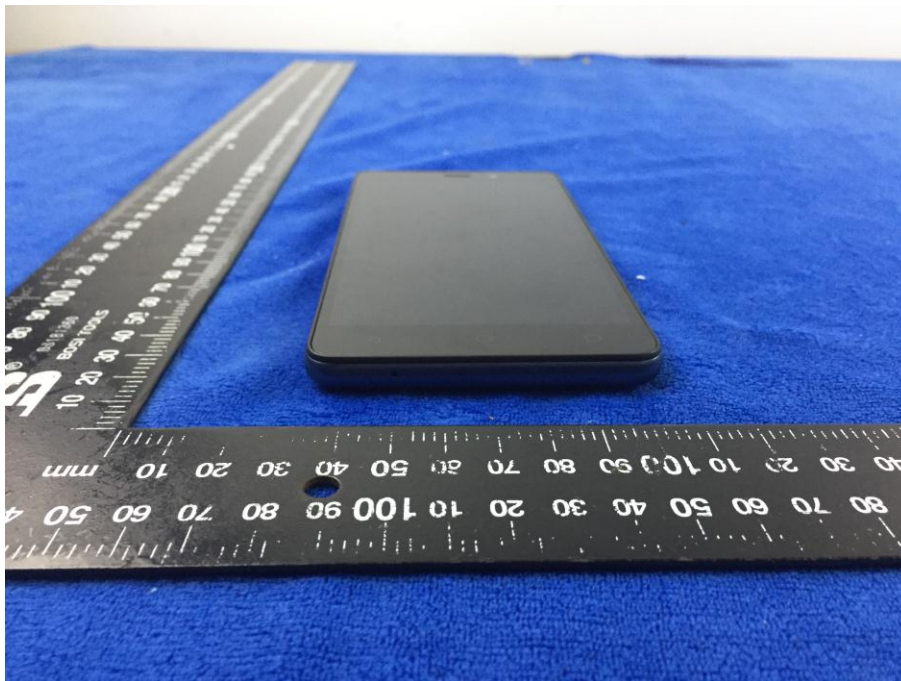
EUT - Rear View



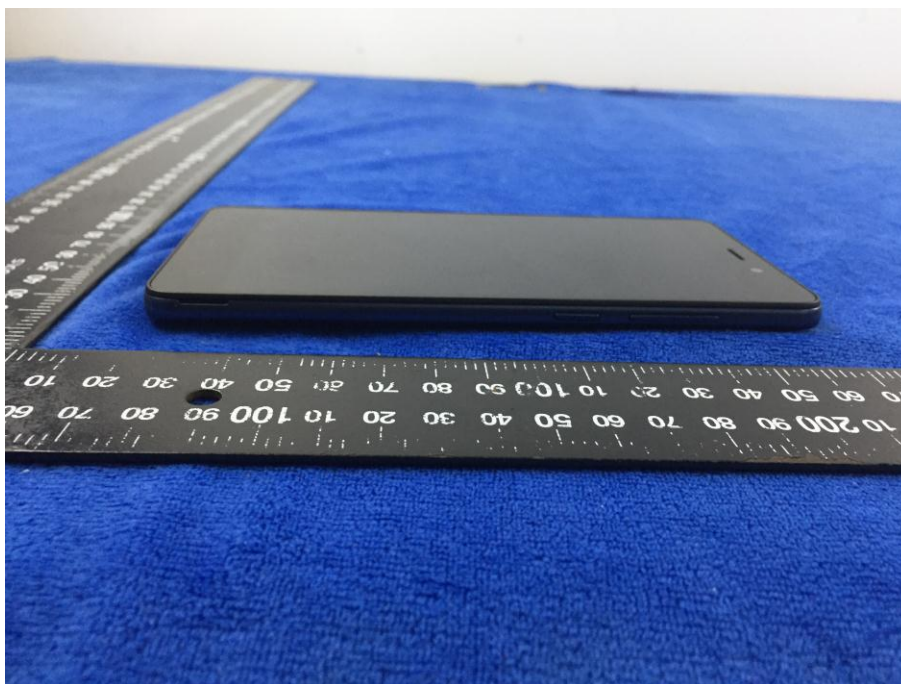
EUT - Top View



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



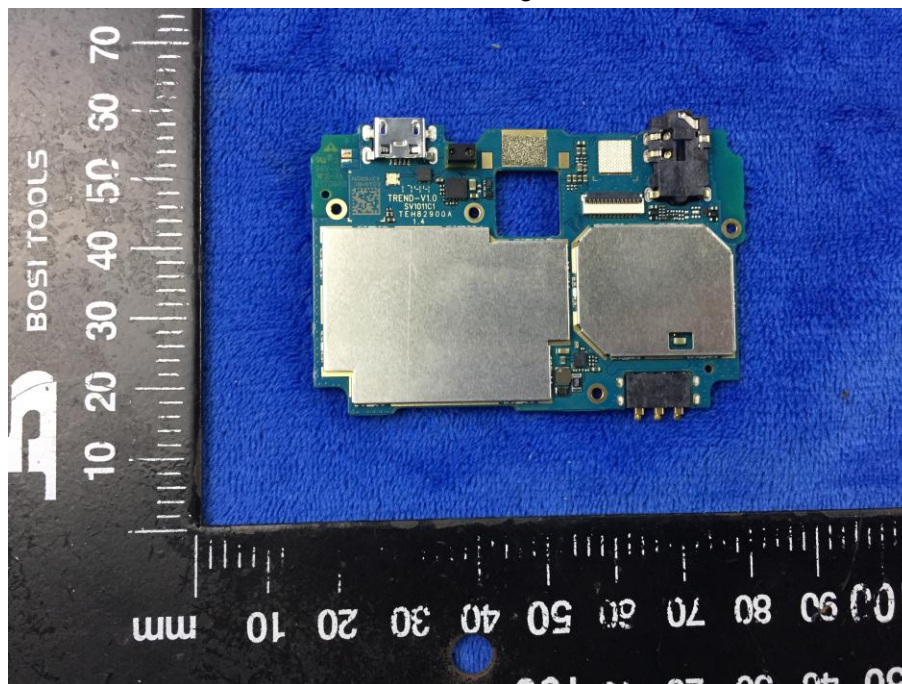
Battery - Front View



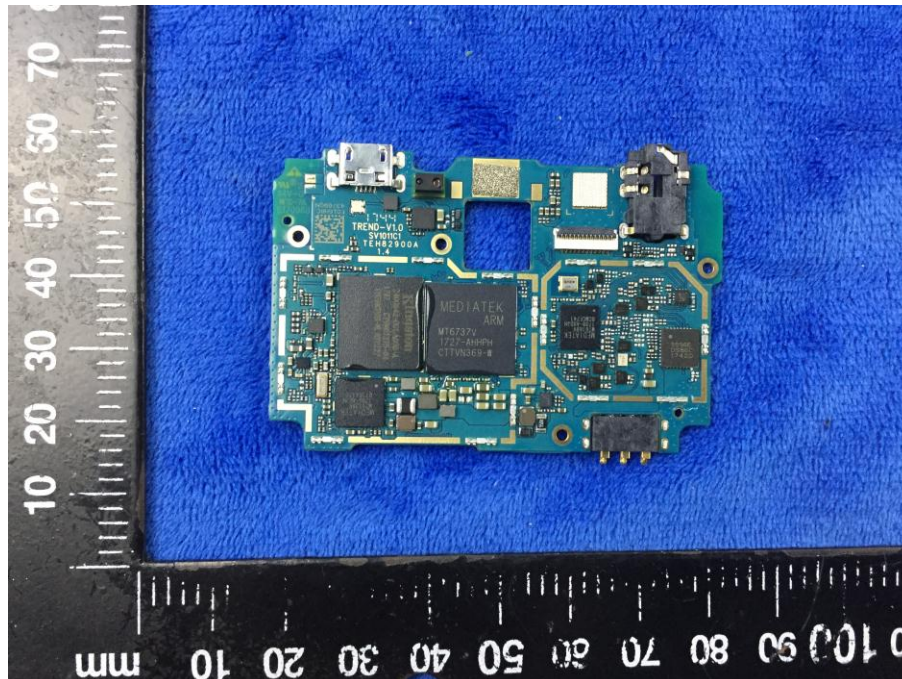
Battery - Rear View



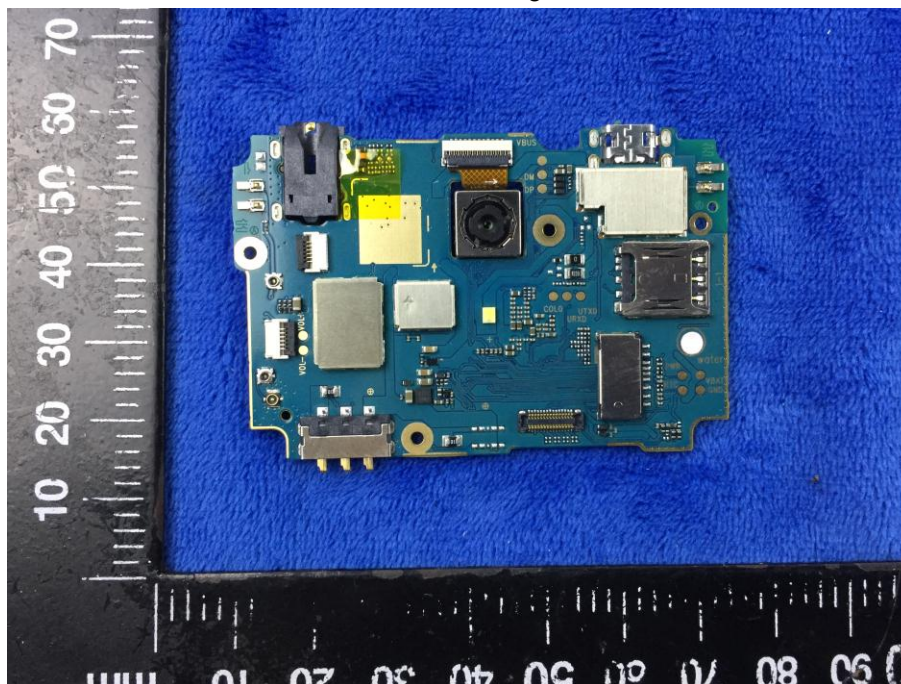
Mainboard with Shielding - Front View



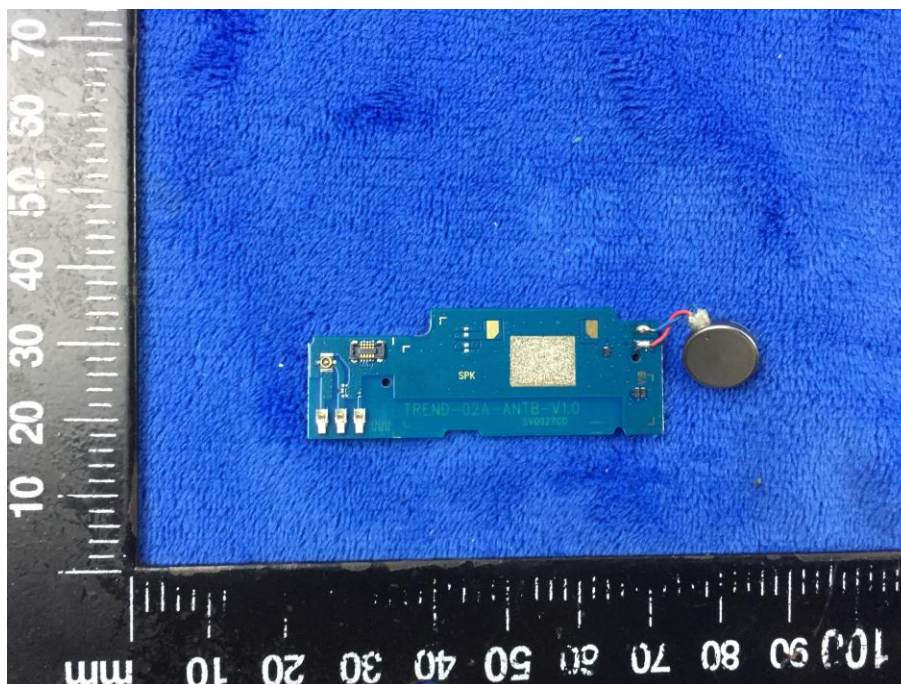
Mainboard with Shielding - Rear View



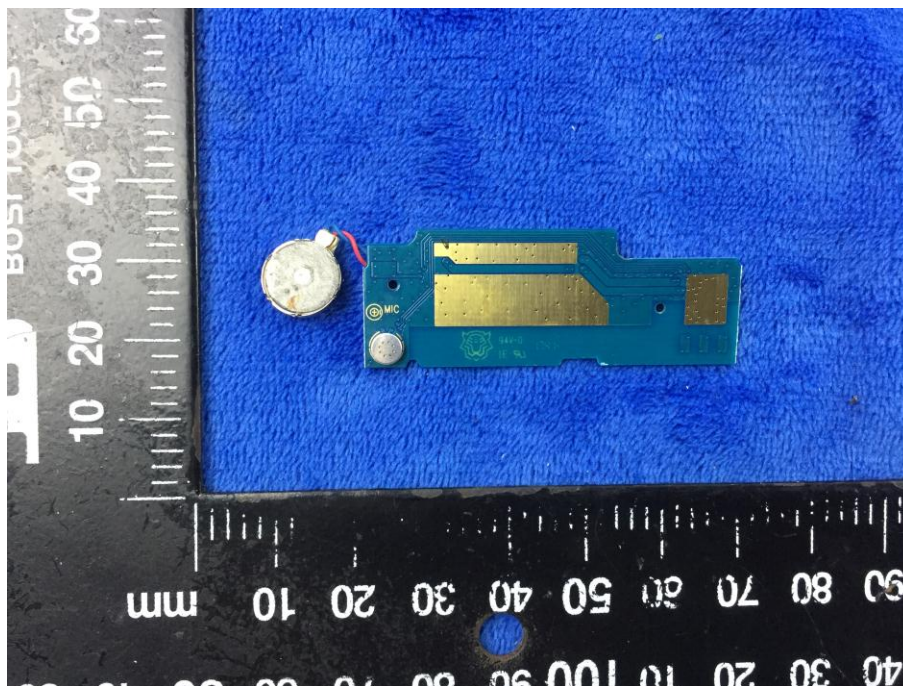
Mainboard without Shielding – Front View



Smallboard – Front View



Smallboard – Rear View



LCD – Front View



LCD – Rear View



GSM/PCS/UMTS-FDD/LTE Antenna View



WIFI/BT/BLE/GPS - Antenna View



RXD- Antenna View



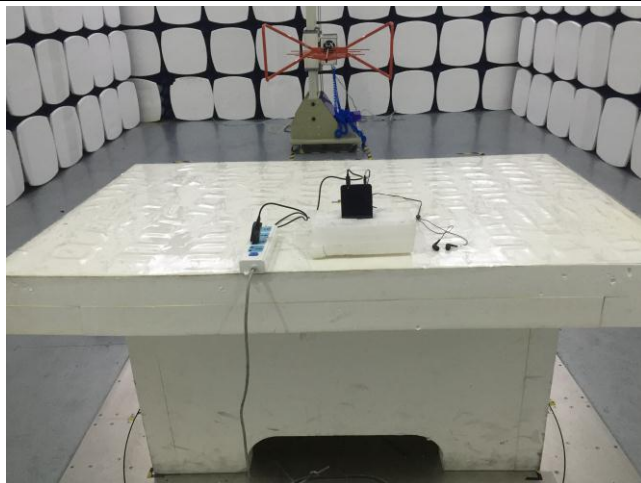
Annex B.iii. Photograph: Test Setup Photo



Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz

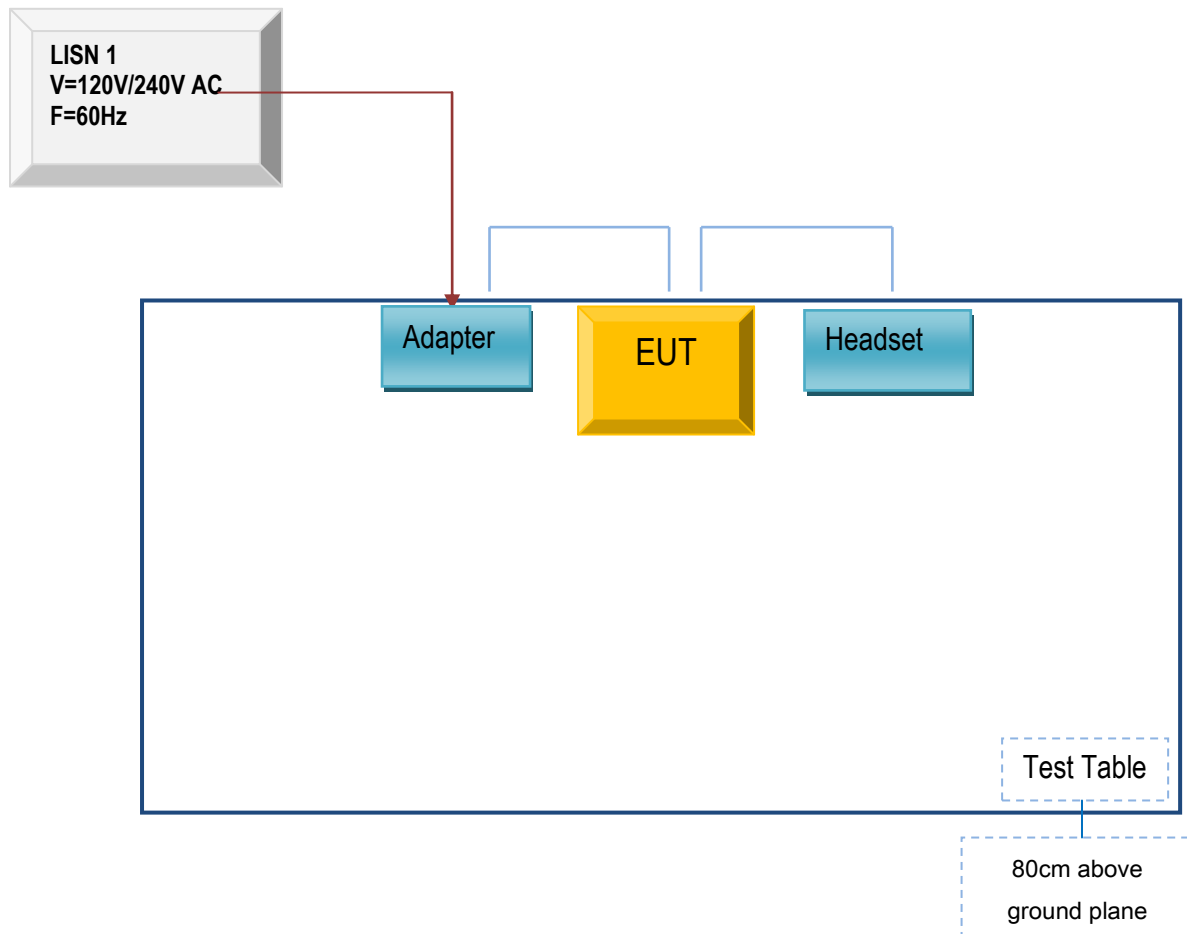


Radiated Spurious Emissions Test Setup Above
1GHz

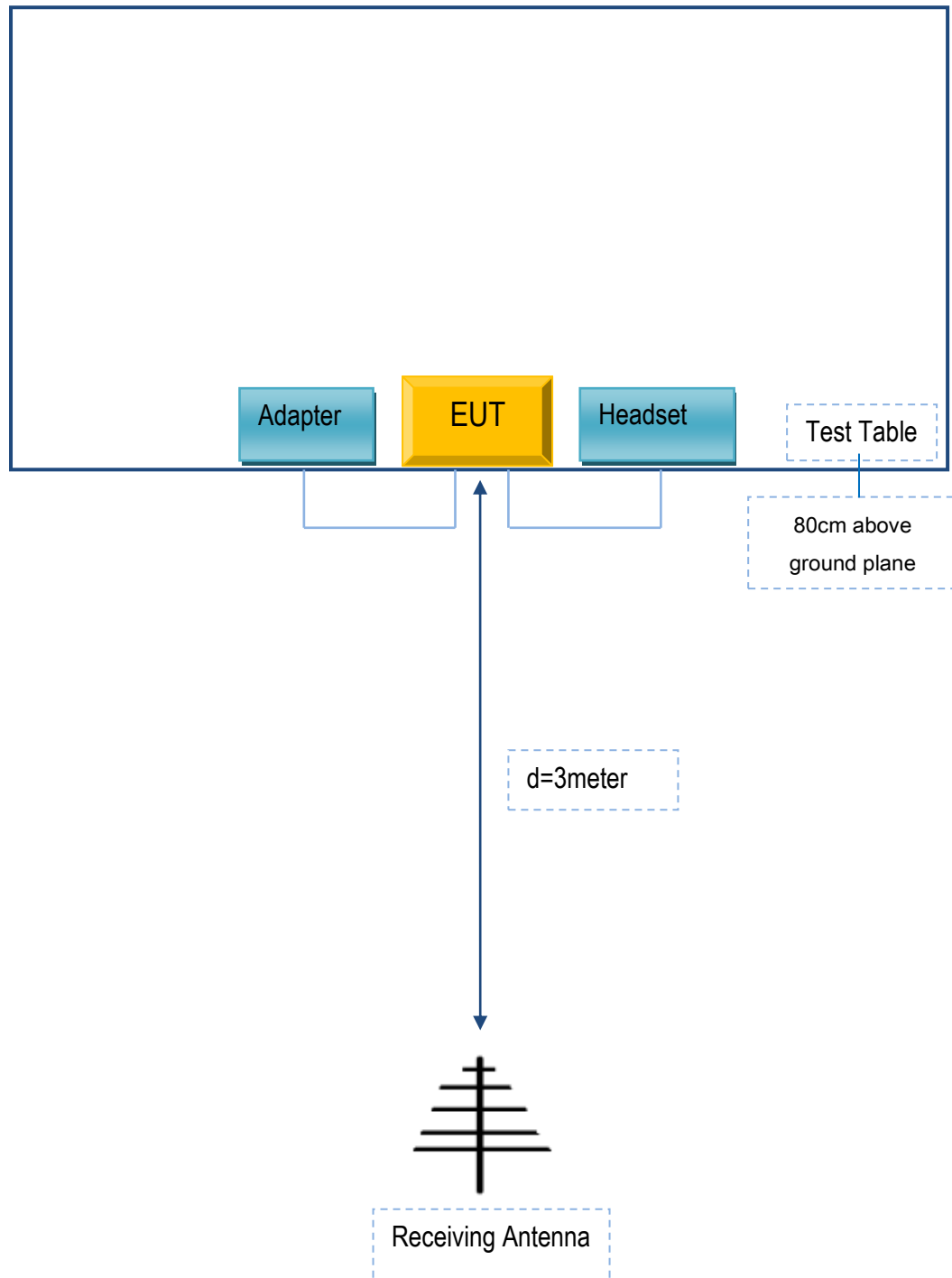
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

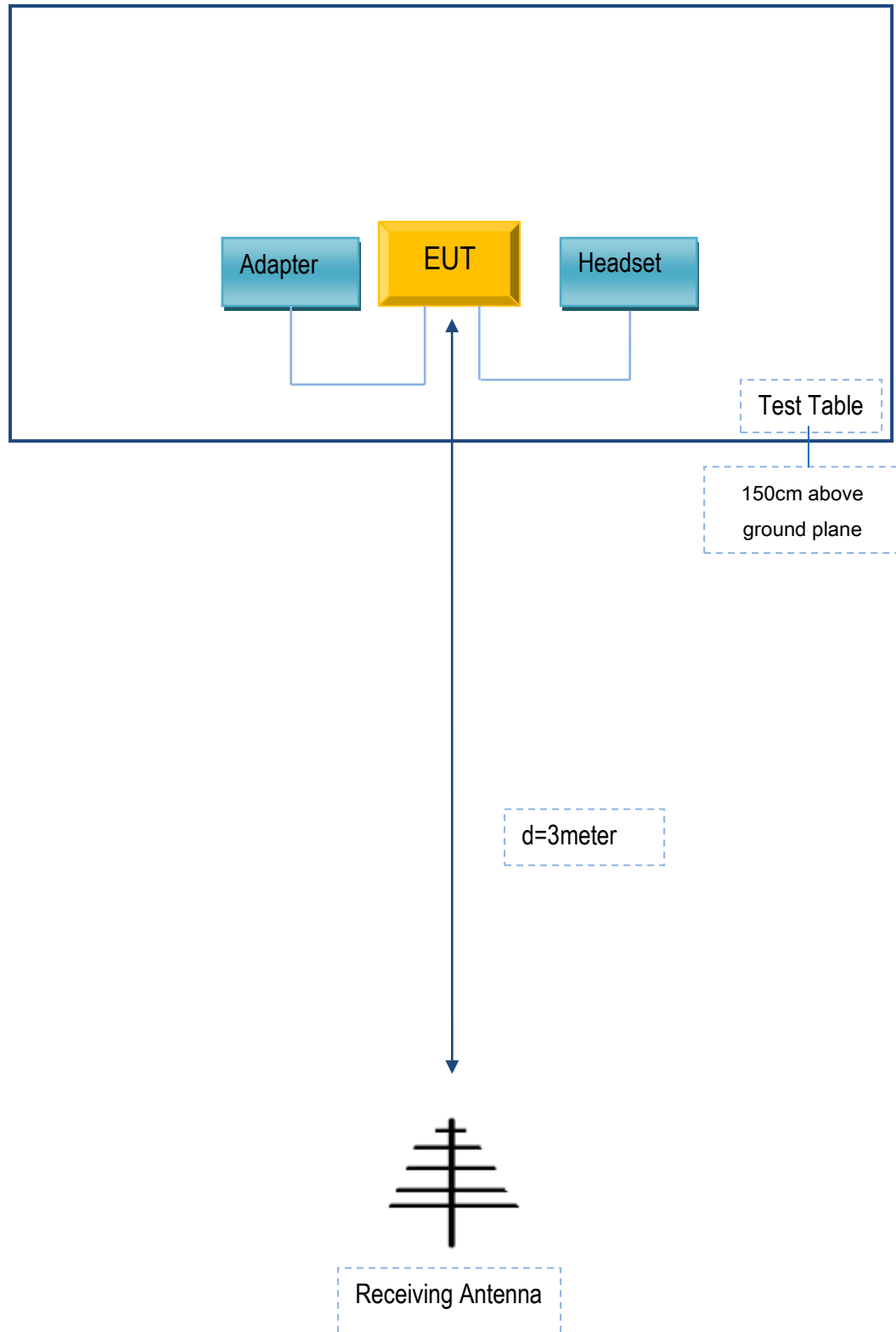
Block Configuration Diagram for AC Line Conducted Emissions



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	M4	N/A
MFOURTEL MEXICO S.A. DE C.V.	headset	M4 B2	N/A

Supporting Cable:

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

Test Report No.	17071442-FCC-R2
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Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see the attachment

Annex E. DECLARATION OF SIMILARITY

N/A