

Test Result:

Test Mode:	Transmitting Mode
------------	-------------------

Frequency range: 9KHz - 30MHz

Freq.	Detection	Factor	Reading	Result	Limit@3m	Margin
(MHz)	value	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)
--	--	--	--	--	--	>20
--	--	--	--	--	--	>20

Note:

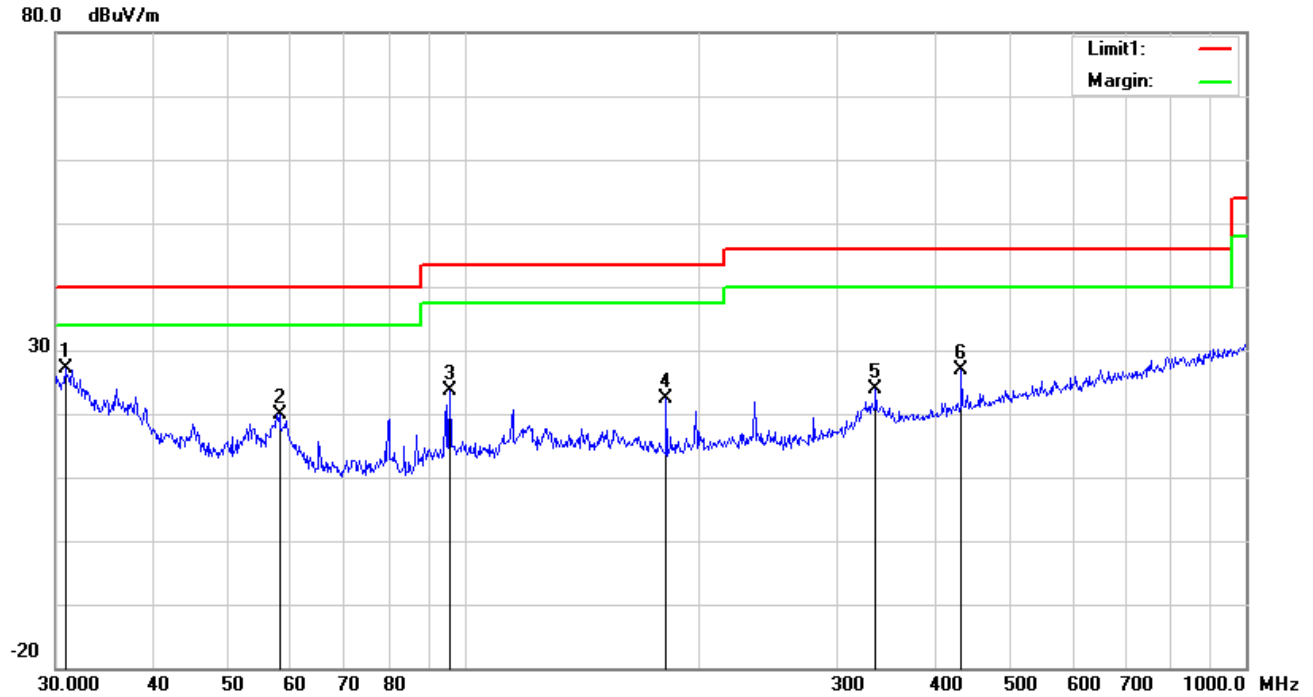
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

Test Mode: Transmitting Mode

30MHz -1GHz

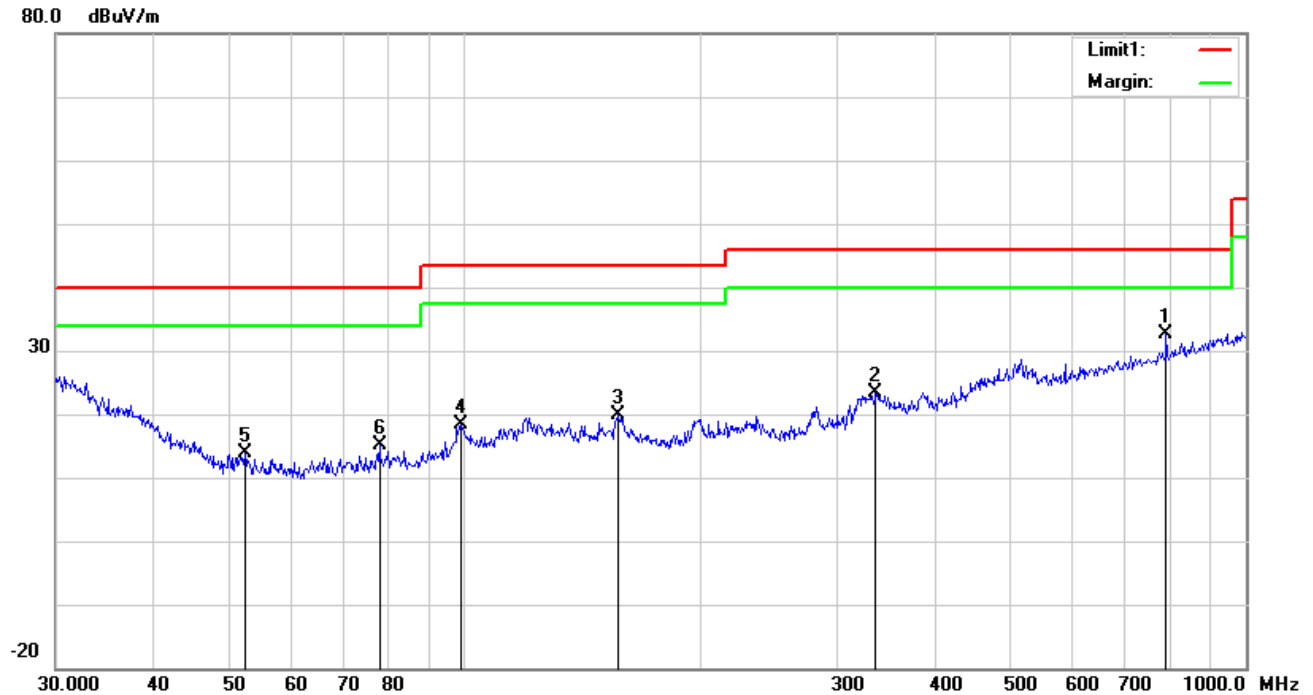


Test Data

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	30.8535	27.93	peak	20.74	22.27	0.64	27.04	40.00	-12.96	100	295
2	V	57.9993	34.04	peak	7.52	22.40	0.76	19.92	40.00	-20.08	100	108
3	V	95.7622	35.67	peak	9.38	22.32	1.01	23.74	43.50	-19.76	100	9
4	V	181.2834	32.15	peak	11.07	22.26	1.38	22.34	43.50	-21.16	200	119
5	V	336.0352	29.77	peak	14.36	22.19	1.97	23.91	46.00	-22.09	100	304
6	V	432.5457	30.26	peak	16.35	21.94	2.09	26.76	46.00	-19.24	100	338

30MHz -1GHz



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)	Degr ee ()
1	H	790.6188	29.47	peak	21.29	21.17	2.94	32.53	46.00	-13.47	100	128
2	H	336.0352	29.29	peak	14.36	22.19	1.97	23.43	46.00	-22.57	200	41
3	H	157.0074	28.22	peak	12.60	22.29	1.38	19.91	43.50	-23.59	100	139
4	H	98.8326	29.51	peak	10.12	22.32	1.09	18.40	43.50	-25.10	100	92
5	H	52.3913	27.31	peak	8.14	22.39	0.79	13.85	40.00	-26.15	100	344
6	H	77.8654	28.90	peak	7.64	22.41	1.01	15.14	40.00	-24.86	100	81

Above 1GHz

Test Mode:	Transmitting Mode
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Low Channel (2412 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)
4824	42.86	AV	V	33.39	7.22	48.46	35.01	54	-18.99
4824	47.13	AV	H	33.39	7.22	48.46	39.28	54	-14.72
4824	66.22	PK	V	33.39	7.22	48.46	58.37	74	-15.63
4824	63.17	PK	H	33.39	7.22	48.46	55.32	74	-18.68
13253	19.38	AV	V	40.37	13.73	47.11	26.37	54	-27.63
13253	20.56	AV	H	40.37	13.73	47.11	27.55	54	-26.45
13253	39.54	PK	V	40.37	13.73	47.11	46.53	74	-27.47
13253	41.61	PK	H	40.37	13.73	47.11	48.6	74	-25.4

Middle Channel (2437 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)
4874	43.55	AV	V	33.62	7.53	48.36	36.34	54	-17.66
4874	45.08	AV	H	33.62	7.53	48.36	37.87	54	-16.13
4874	67.35	PK	V	33.62	7.53	48.36	60.14	74	-13.86
4874	67.92	PK	H	33.62	7.53	48.36	60.71	74	-13.29
11509	29.68	AV	V	39.92	12.52	46.75	35.37	54	-18.63
11509	28.46	AV	H	39.92	12.52	46.75	34.15	54	-19.85
11509	47.52	PK	V	39.92	12.52	46.75	53.21	74	-20.79
11509	46.85	PK	H	39.92	12.52	46.75	52.54	74	-21.46

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	45.25	AV	V	33.74	7.78	48.34	38.43	54	-15.57
4924	43.45	AV	H	33.74	7.78	48.34	36.63	54	-17.37
4924	69.51	PK	V	33.74	7.78	48.34	62.69	74	-11.31
4924	65.38	PK	H	33.74	7.78	48.34	58.56	74	-15.44
17847	18.86	AV	V	42.76	19.38	44.02	36.98	54	-17.02
17847	18.4	AV	H	42.76	19.38	44.02	36.52	54	-17.48
17847	40.09	PK	V	42.76	19.38	44.02	58.21	74	-15.79
17847	42.02	PK	H	42.76	19.38	44.02	60.14	74	-13.86

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

Annex B. EUT and Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

Whole Package View



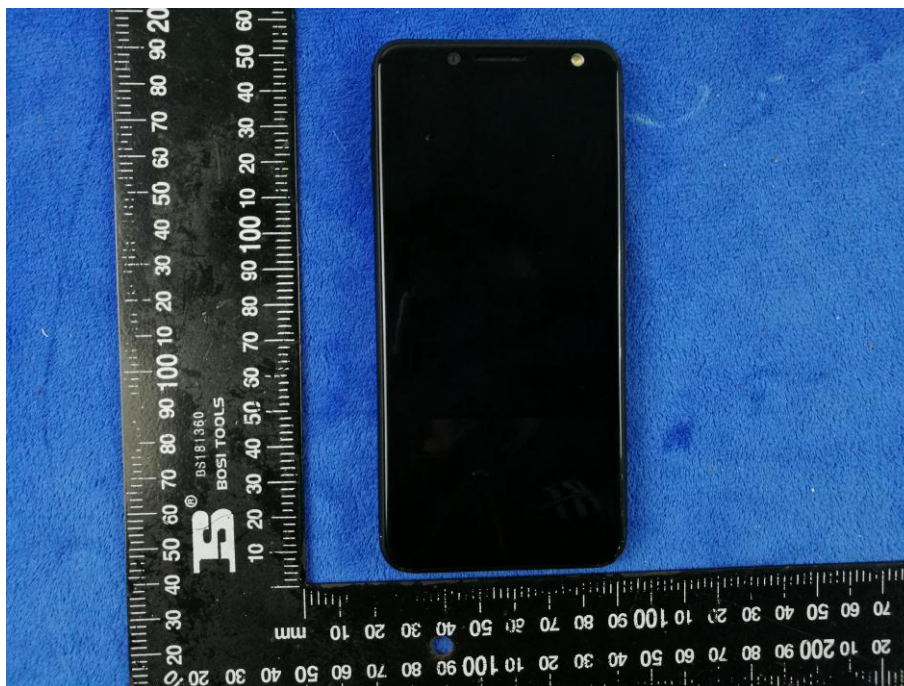
Adapter View 1



Adapter View 2



EUT - Front View



EUT - Rear View



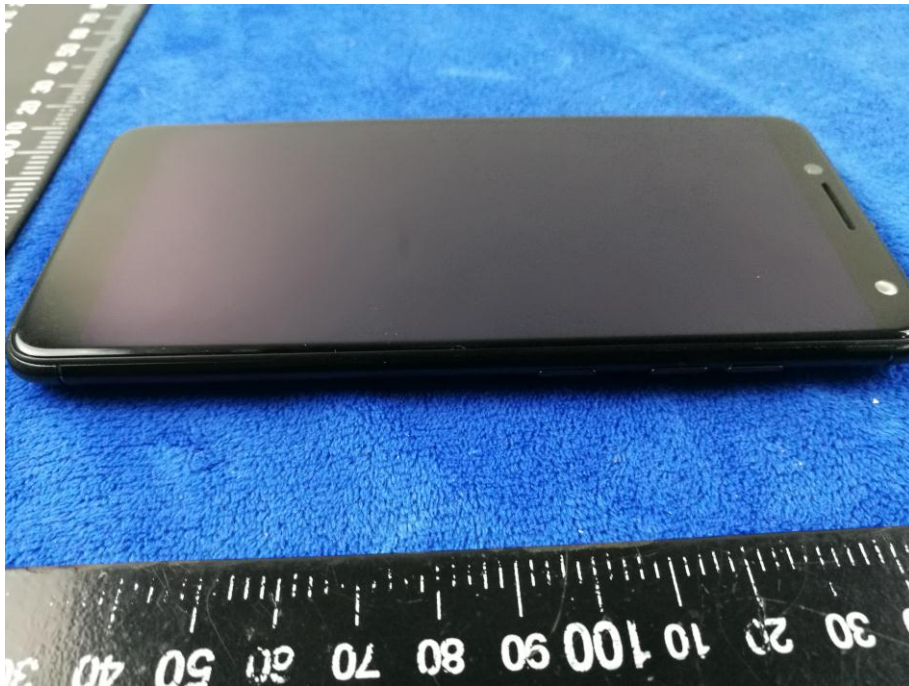
EUT - Top View



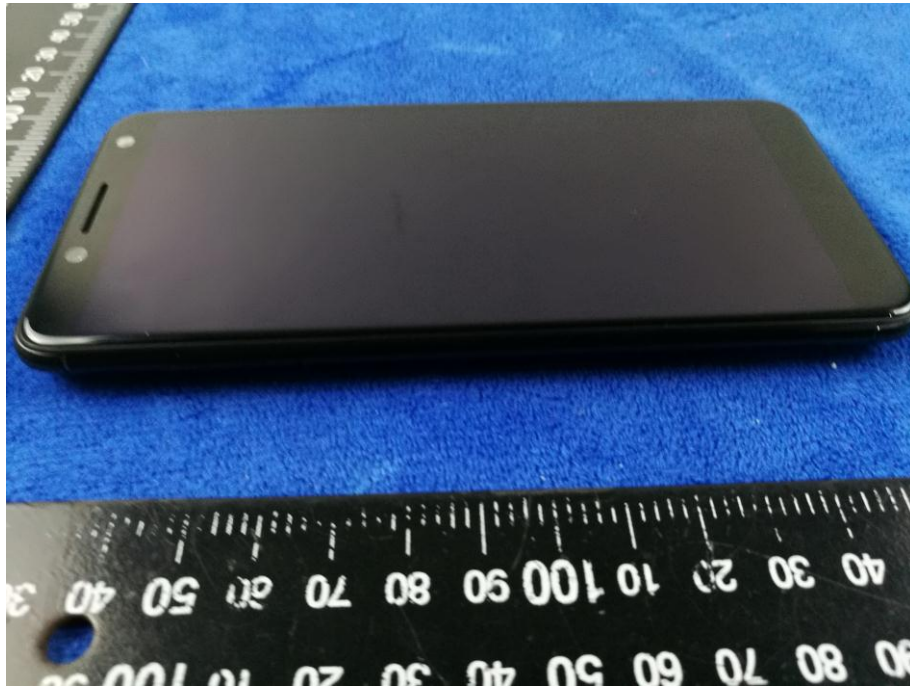
EUT - Bottom View



EUT - Left View



EUT - Right View



Annex B.ii. Photograph: EUT Internal Photo

Cover Off - Top View 1



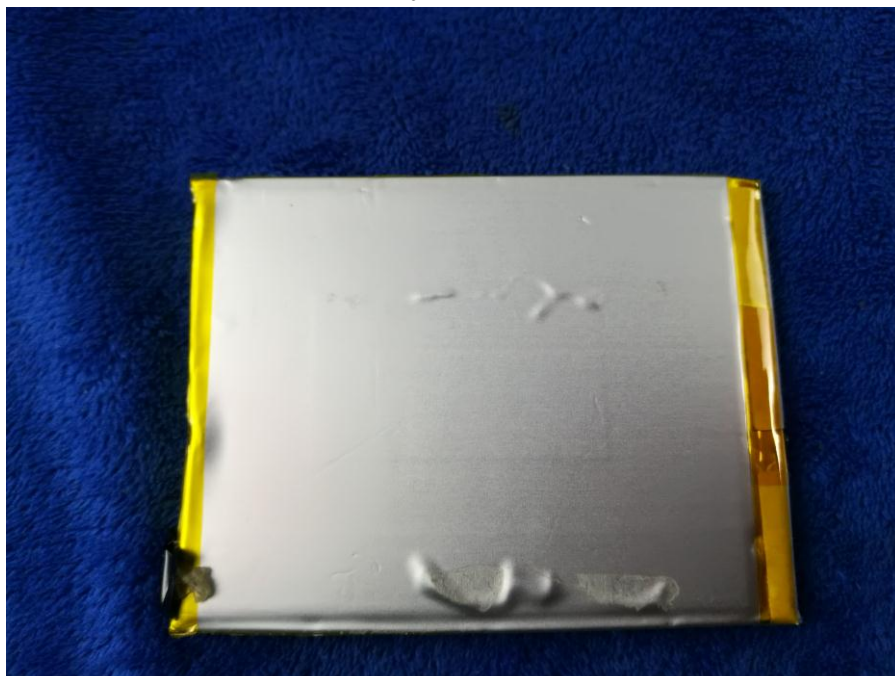
Cover Off - Top View 2



Battery - Front View



Battery - Rear View



Mainboard with Shielding - Front View



Mainboard without Shielding - Rear View



Smallboard – Front View



Smallboard – Rear View



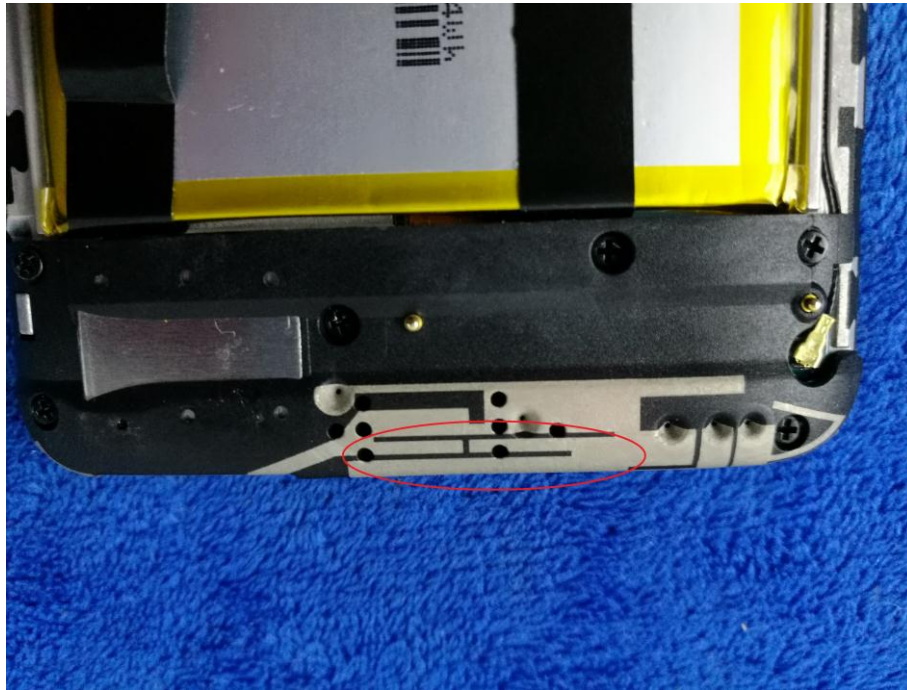
LCD – Front View



LCD – Rear View



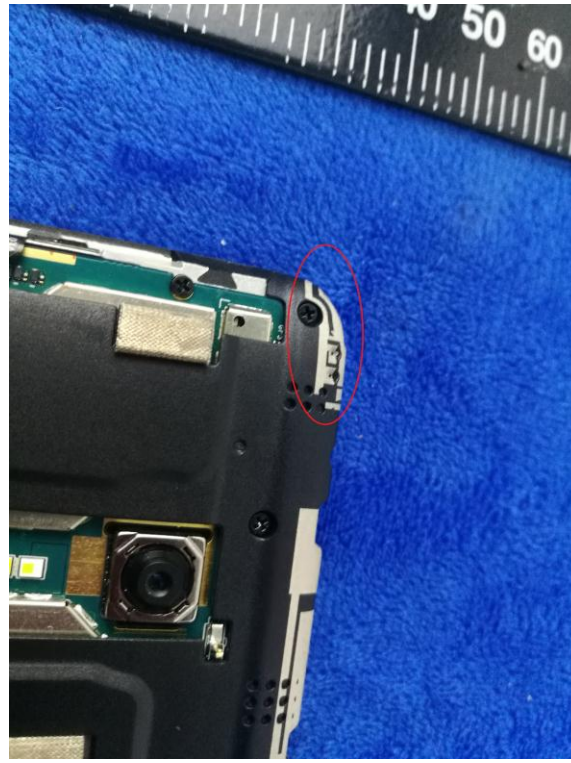
GSM/PCS/UMTS-FDD/LTE Antenna View



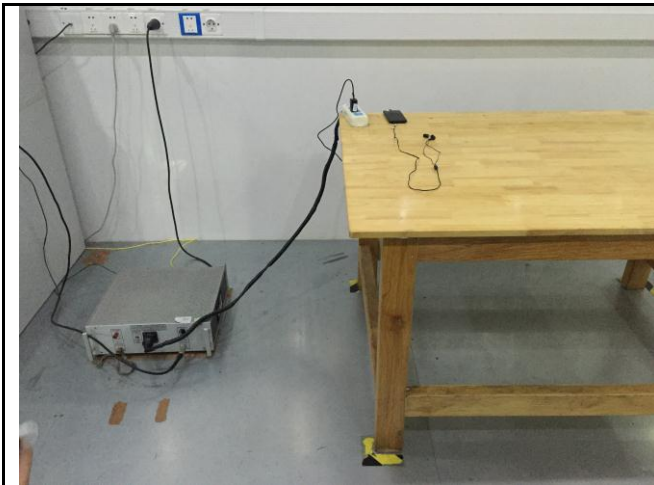
WIFI/BT/BLE/GPS - Antenna View



RXD- Antenna View



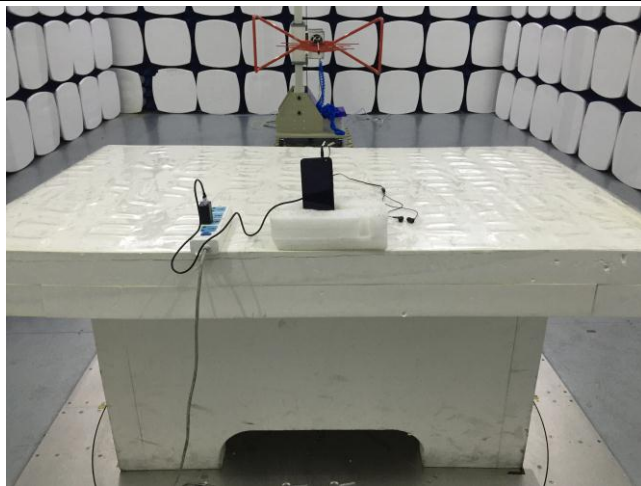
Annex B.iii. Photograph: Test Setup Photo



Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz

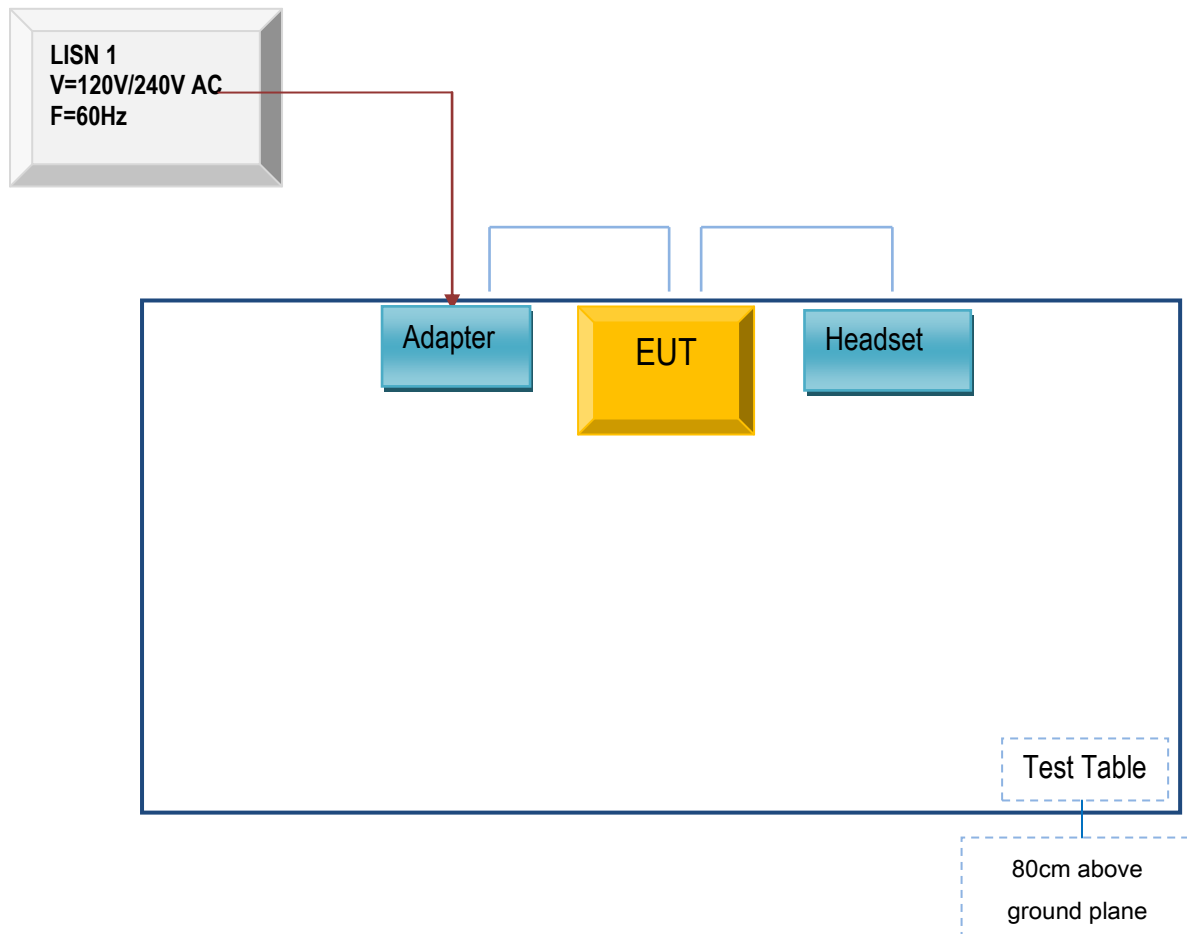


Radiated Spurious Emissions Test Setup Above
1GHz

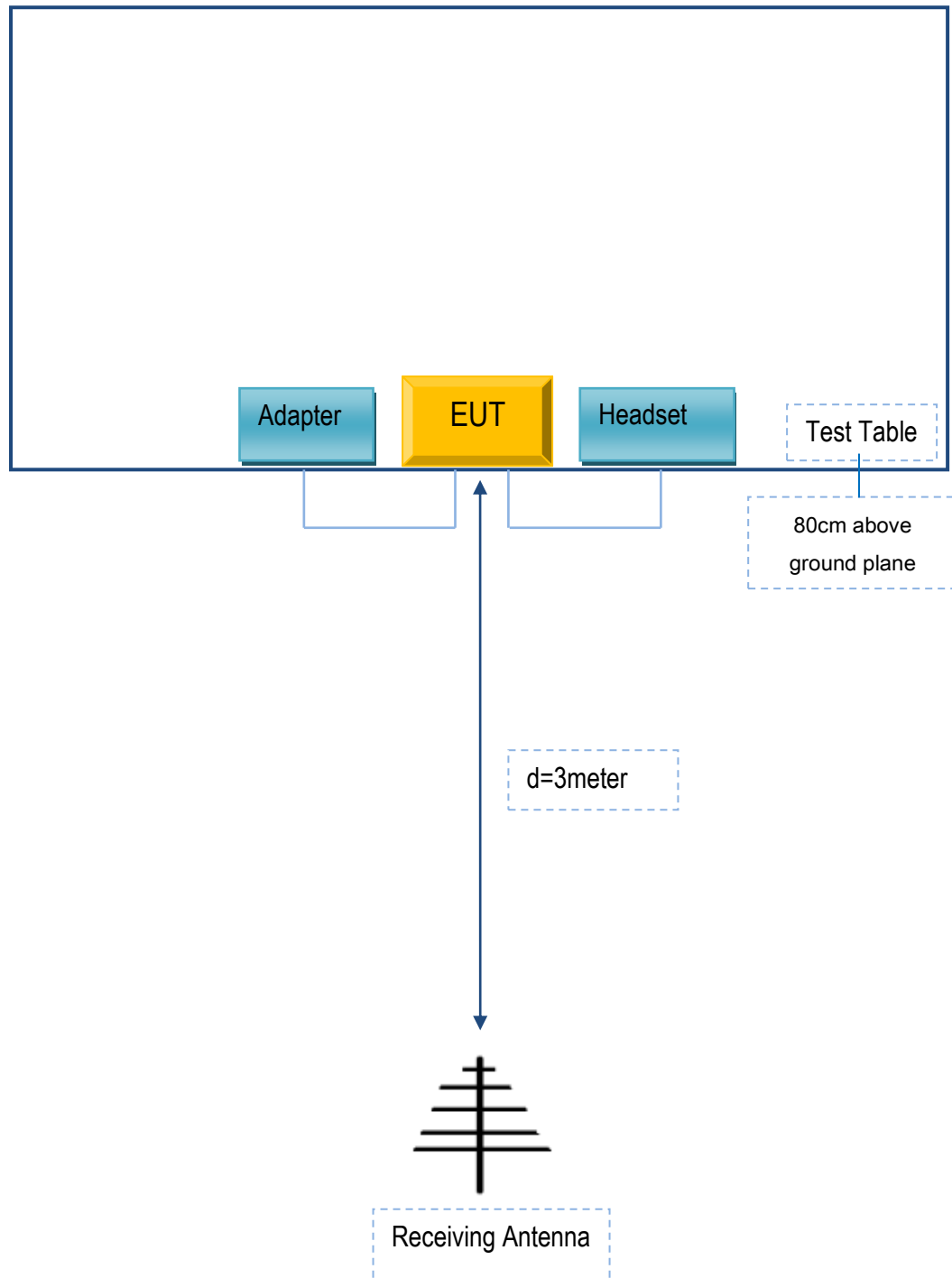
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

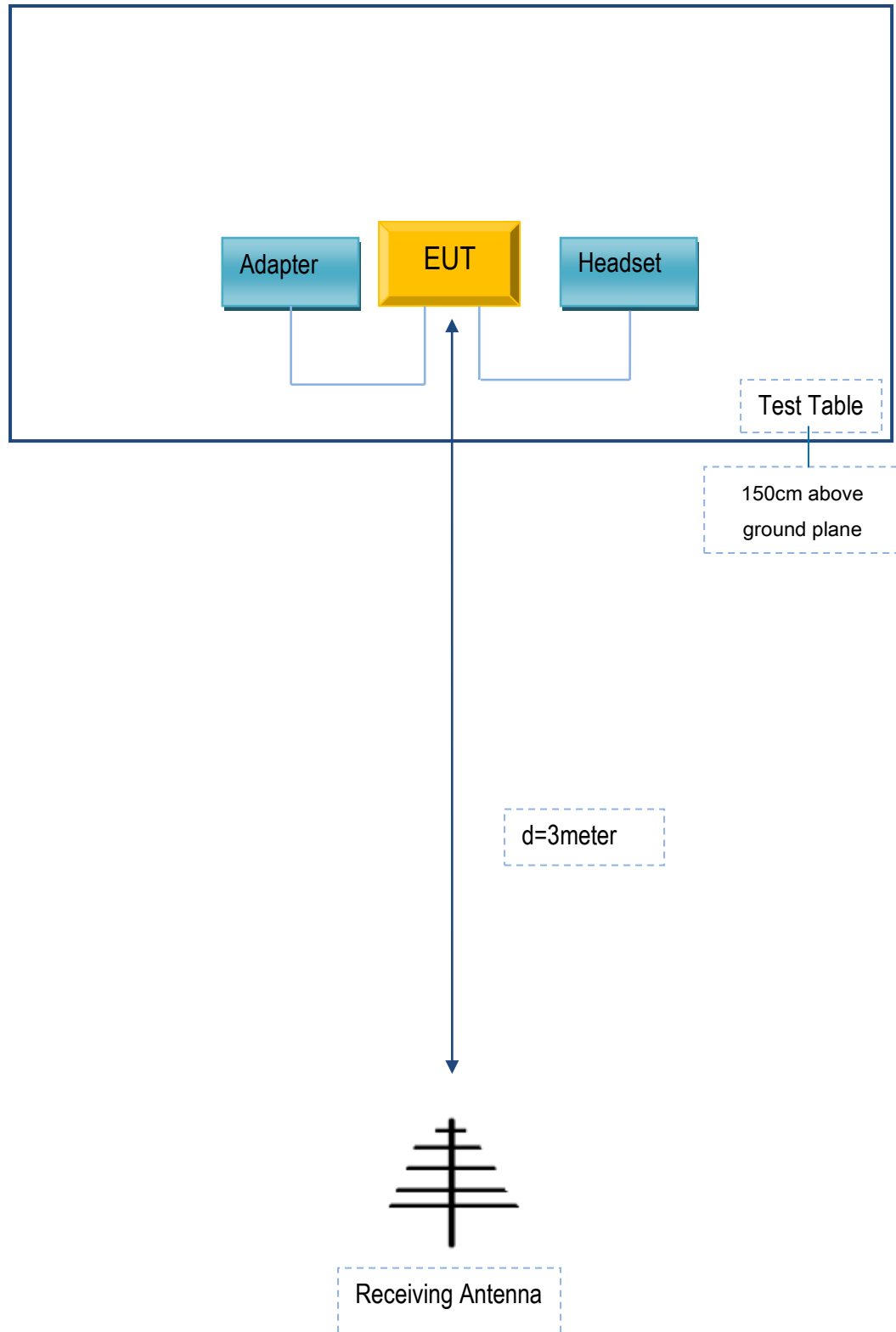
Block Configuration Diagram for AC Line Conducted Emissions



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
BLU Products, Inc	Adapter	TPA-46050150UU	N/A
BLU Products, Inc	headset	VIVO ONE	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.	17071380-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