

EMC TEST REPORT



Report No.: 18070029-FCC-E

Supersede Report No: N/A

Applicant	TECNO MOBILE LIMITED	
Product Name	Mobile phone	
Model No.	CA7	
Serial No.	N/A	
Test Standard	FCC Part 15 Subpart B Class B:2016, ANSI C63.4: 2014	
Test Date	January 10 to February 06, 2018	
Issue Date	February 07, 2018	
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	
Equipment complied with the specification <input checked="" type="checkbox"/>		
Equipment did not comply with the specification <input type="checkbox"/>		
<i>Evans He</i>	<i>David Huang</i>	
Evans He Test Engineer	David Huang Checked By	
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Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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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

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1. Report Revision History

Report No.	Report Version	Description	Issue Date
18070029-FCC-E	NONE	Original	February 07, 2018

2. Customer information

Applicant Name	TECNO MOBILE LIMITED
Applicant Add	ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Manufacturer	SHENZHEN TECNO TECHNOLOGY CO.,LTD.
Manufacturer Add	1-4th Floor,3rd Building,Pacific Industrial Park,No.2088,Shenyan Road,Yantian District,Shenzhen,Guangdong,China

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:	Mobile phone
Main Model:	CA7
Serial Model:	N/A
Antenna Gain:	GSM850: -0.2dBi PCS1900: 1.7dBi UMTS-FDD Band V: -0.2dBi UMTS-FDD Band II: 1.7dBi LTE Band II: 1.7dBi LTE Band IV: 1.7dBi LTE Band V: -0.2dBi LTE Band VII: 2.5dBi WIFI: 2.0dBi Bluetooth/BLE: 2.0dBi GPS: 2.0dBi
Antenna Type:	PIFA antenna
Input Power:	Adapter: Model: A88-502000 Input: AC100-240V~50/60Hz, 0.35A Output: DC 5.0V, 2.0A Battery Model: BL-36BT Rating: 3.85V, 3650mAh/3750mAh, 14.05Wh/14.43Wh Limited charge voltage: 4.4V
Equipment Category :	JBP
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK, 8PSK UMTS-FDD: QPSK LTE Band: QPSK, 16QAM 802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, π /4DQPSK, 8DPSK

	BLE: GFSK
	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 V TX: 824.7~ 848.3 MHz; RX : 869.7 ~ 893.3MHz
	LTE Band VII TX: 2502.5 ~ 2567.5 MHz; RX : 2622.5 ~ 2687.5 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
	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 :	TECNO
FCC ID:	2ADYY-CA7
Date EUT received:	January 09, 2018
Test Date(s):	January 10 to February 06, 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

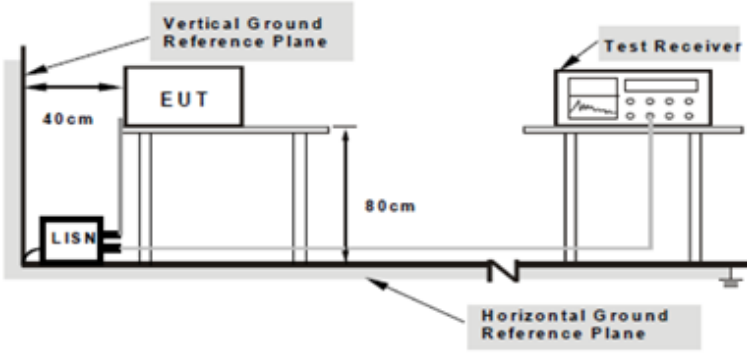
6. Measurements, Examination And Derived Results

6.1 AC Power Line Conducted Emissions

Temperature	25 °C
Relative Humidity	55%
Atmospheric Pressure	1017mbar
Test date :	January 23, 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	 <p>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.</p>
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Procedure	<ol style="list-style-type: none"> 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.
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	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	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

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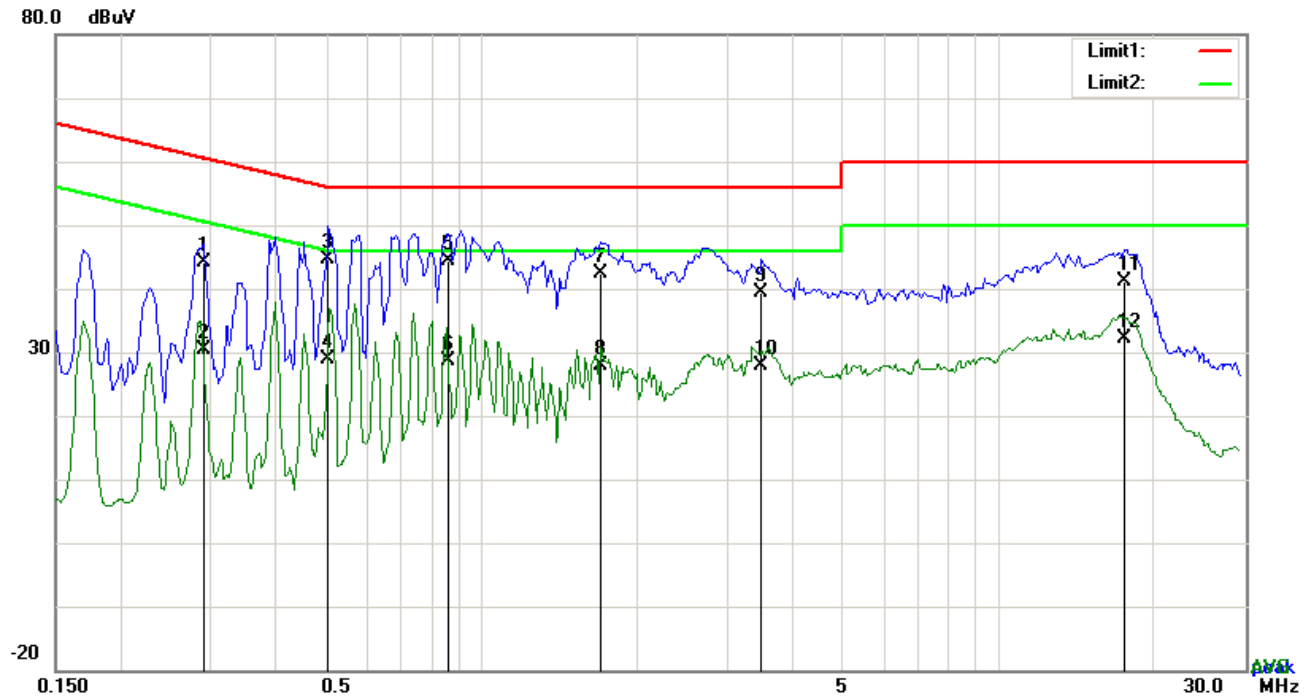
Test Mode 2:	MP4 Mode
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Test Mode 3:	Camera Mode
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Test Mode 4:	FM Mode
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Note: All modes were investigated, the results below show only the worst case(USB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

Test Mode 1:	USB Mode
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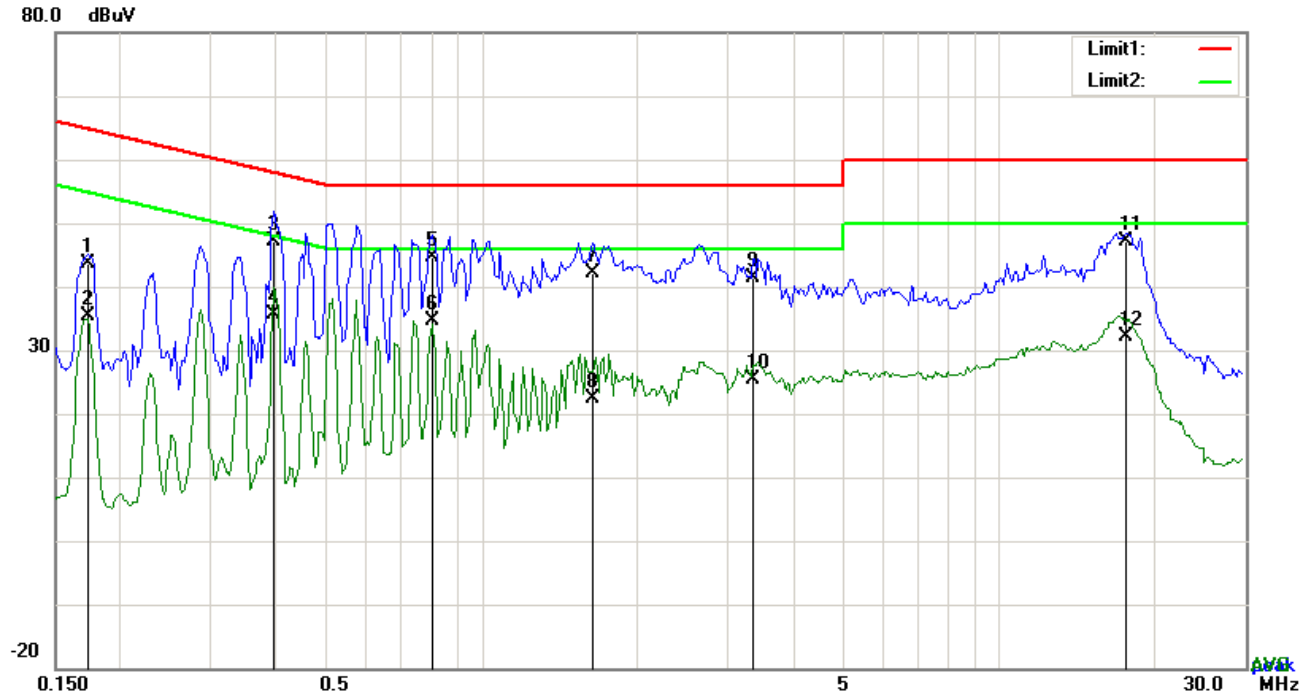


Test Data

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	34.07	QP	10.03	44.10	60.51	-16.41
2	L1	0.2904	20.44	AVG	10.03	30.47	50.51	-20.04
3	L1	0.5049	34.66	QP	10.03	44.69	56.00	-11.31
4	L1	0.5049	18.91	AVG	10.03	28.94	46.00	-17.06
5	L1	0.8637	34.27	QP	10.03	44.30	56.00	-11.70
6	L1	0.8637	18.56	AVG	10.03	28.59	46.00	-17.41
7	L1	1.7022	32.45	QP	10.04	42.49	56.00	-13.51
8	L1	1.7022	17.82	AVG	10.04	27.86	46.00	-18.14
9	L1	3.4836	29.31	QP	10.06	39.37	56.00	-16.63
10	L1	3.4836	17.76	AVG	10.06	27.82	46.00	-18.18
11	L1	17.5509	30.93	QP	10.26	41.19	60.00	-18.81
12	L1	17.5509	21.88	AVG	10.26	32.14	50.00	-17.86

Test Mode 1: USB Mode

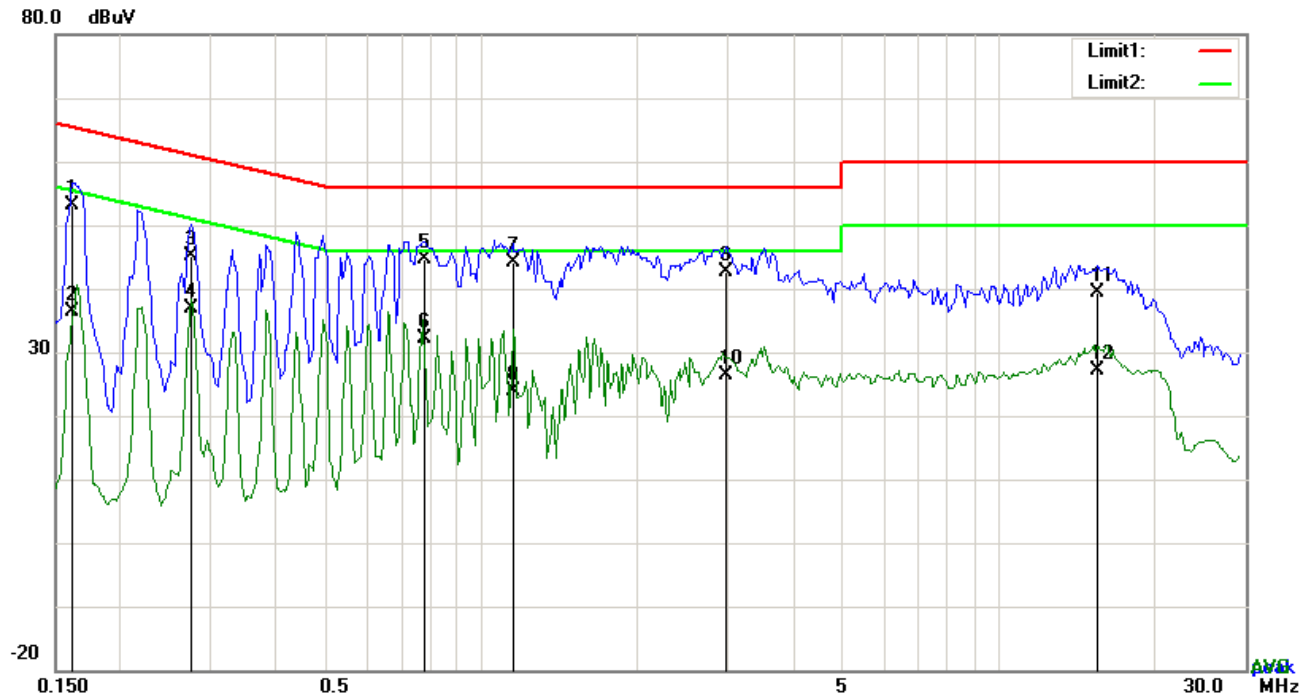


Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.1734	33.61	QP	10.03	43.64	64.80	-21.16
2	N	0.1734	25.24	AVG	10.03	35.27	54.80	-19.53
3	N	0.3957	37.19	QP	10.03	47.22	57.94	-10.72
4	N	0.3957	25.62	AVG	10.03	35.65	47.94	-12.29
5	N	0.8013	34.62	QP	10.03	44.65	56.00	-11.35
6	N	0.8013	24.53	AVG	10.03	34.56	46.00	-11.44
7	N	1.6398	32.02	QP	10.04	42.06	56.00	-13.94
8	N	1.6398	12.45	AVG	10.04	22.49	46.00	-23.51
9	N	3.3627	31.28	QP	10.06	41.34	56.00	-14.66
10	N	3.3627	15.25	AVG	10.06	25.31	46.00	-20.69
11	N	17.5743	36.85	QP	10.26	47.11	60.00	-12.89
12	N	17.5743	21.80	AVG	10.26	32.06	50.00	-17.94

Test Mode 1:	USB Mode
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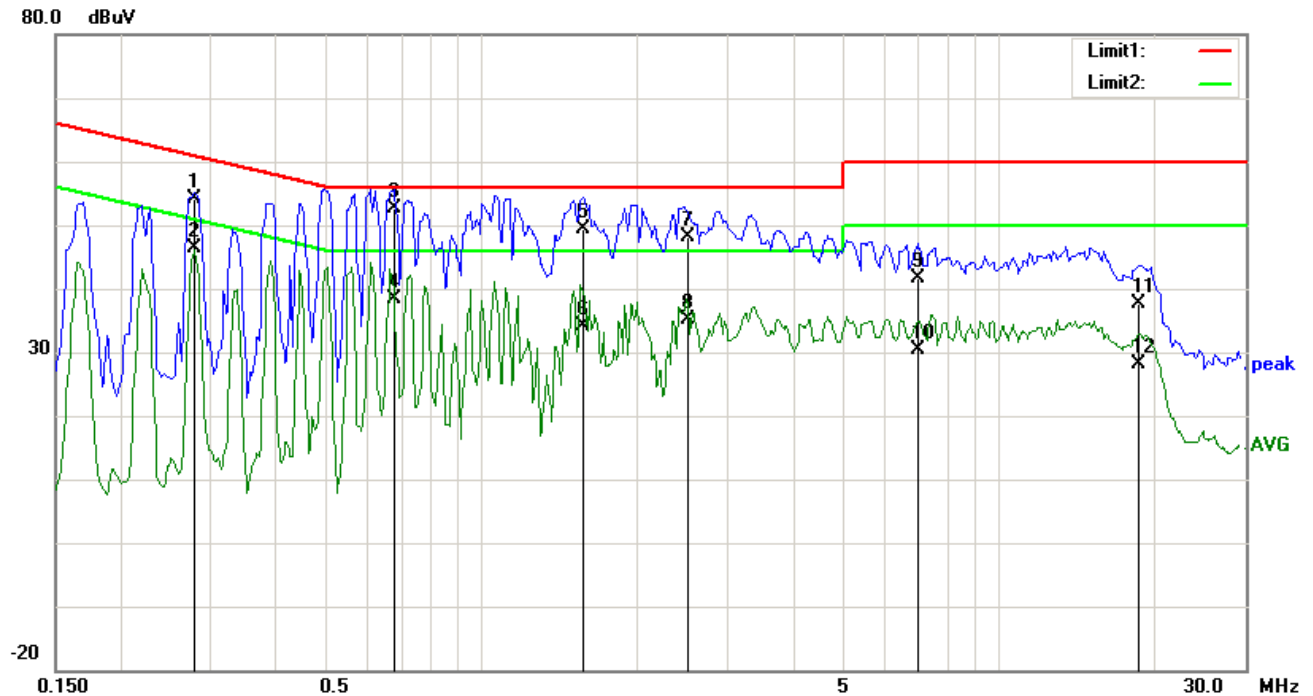


Test Data

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	43.13	QP	10.03	53.16	65.38	-12.22
2	L1	0.1617	26.31	AVG	10.03	36.34	55.38	-19.04
3	L1	0.2748	35.04	QP	10.03	45.07	60.97	-15.90
4	L1	0.2748	26.74	AVG	10.03	36.77	50.97	-14.20
5	L1	0.7779	34.66	QP	10.03	44.69	56.00	-11.31
6	L1	0.7779	22.03	AVG	10.03	32.06	46.00	-13.94
7	L1	1.1484	34.06	QP	10.03	44.09	56.00	-11.91
8	L1	1.1484	13.74	AVG	10.03	23.77	46.00	-22.23
9	L1	2.9697	32.56	QP	10.05	42.61	56.00	-13.39
10	L1	2.9697	16.28	AVG	10.05	26.33	46.00	-19.67
11	L1	15.5229	29.11	QP	10.23	39.34	60.00	-20.66
12	L1	15.5229	16.86	AVG	10.23	27.09	50.00	-22.91

Test Mode 1:	USB Mode
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Test Data


Phase Neutral Plot at 240Vac, 60Hz

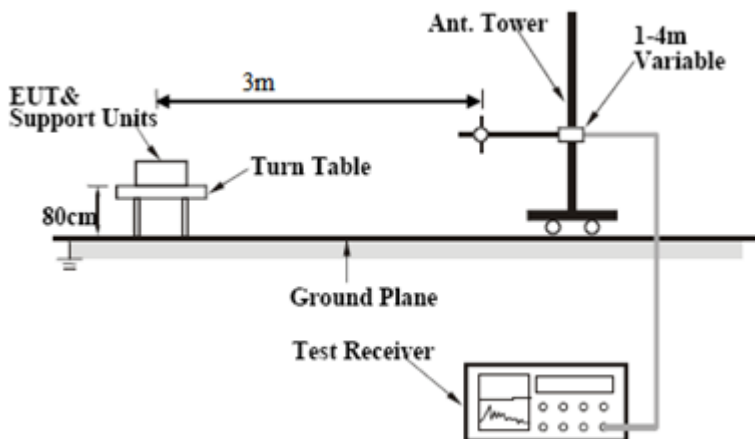
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.2787	44.05	QP	10.03	54.08	60.85	-6.77
2	N	0.2787	36.40	AVG	10.03	46.43	50.85	-4.42
3	N	0.6765	42.69	QP	10.03	52.72	56.00	-3.28
4	N	0.6765	28.25	AVG	10.03	38.28	46.00	-7.72
5	N	1.5735	39.34	QP	10.04	49.38	56.00	-6.62
6	N	1.5735	24.09	AVG	10.04	34.13	46.00	-11.87
7	N	2.5000	37.98	QP	10.05	48.03	56.00	-7.97
8	N	2.5000	25.16	AVG	10.05	35.21	46.00	-10.79
9	N	6.9702	31.50	QP	10.11	41.61	60.00	-18.39
10	N	6.9702	20.31	AVG	10.11	30.42	50.00	-19.58
11	N	18.6897	27.46	QP	10.28	37.74	60.00	-22.26
12	N	18.6897	17.97	AVG	10.28	28.25	50.00	-21.75

6.2 Radiated Emissions

Temperature	24 °C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	February 05, 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	<ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> Vertical or horizontal polarization (whichever gave the higher emission level
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	<p>over a full rotation of the EUT) was chosen.</p> <p>b. The EUT was then rotated to the direction that gave the maximum emission.</p> <p>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</p> <p>3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi Peak detection at frequency below 1GHz.</p> <p>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%)</p> <p>5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</p>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> 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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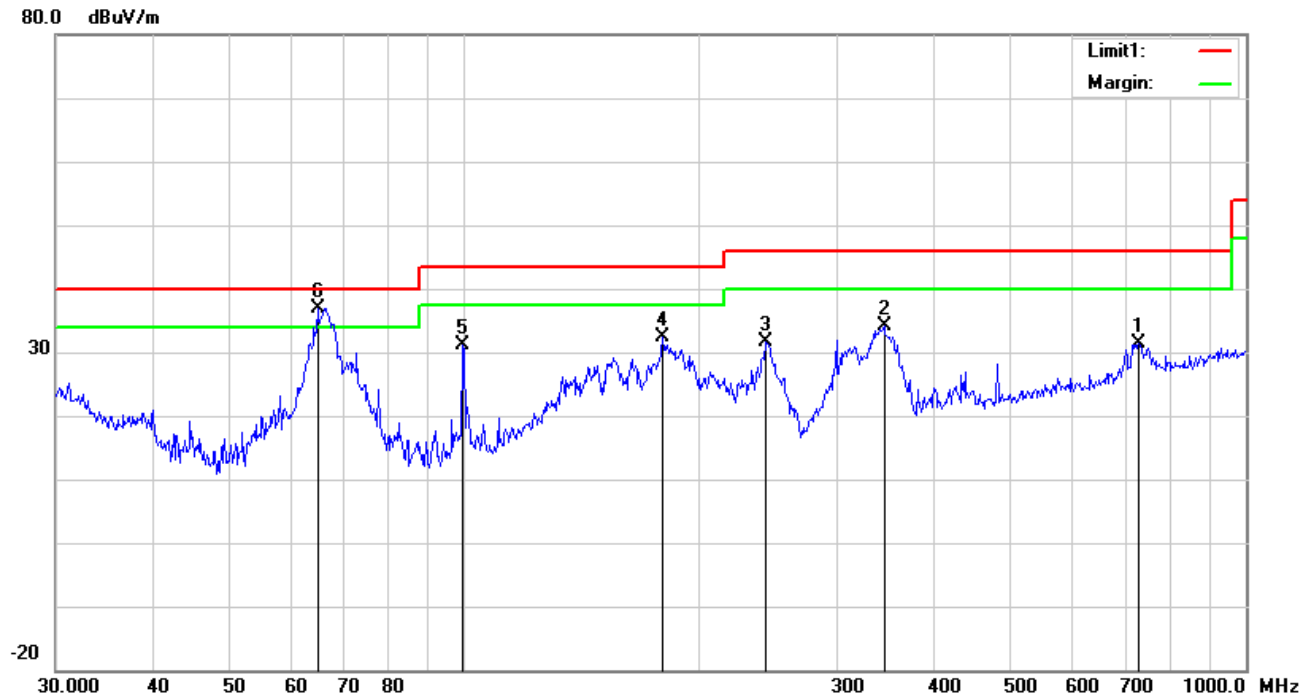
Test Mode 3:	Camera Mode
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Test Mode 4:	FM Mode
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Note: All modes were investigated, the results below show only the worst case(USB mode).

Test Mode 1: USB Mode

Below 1GHz

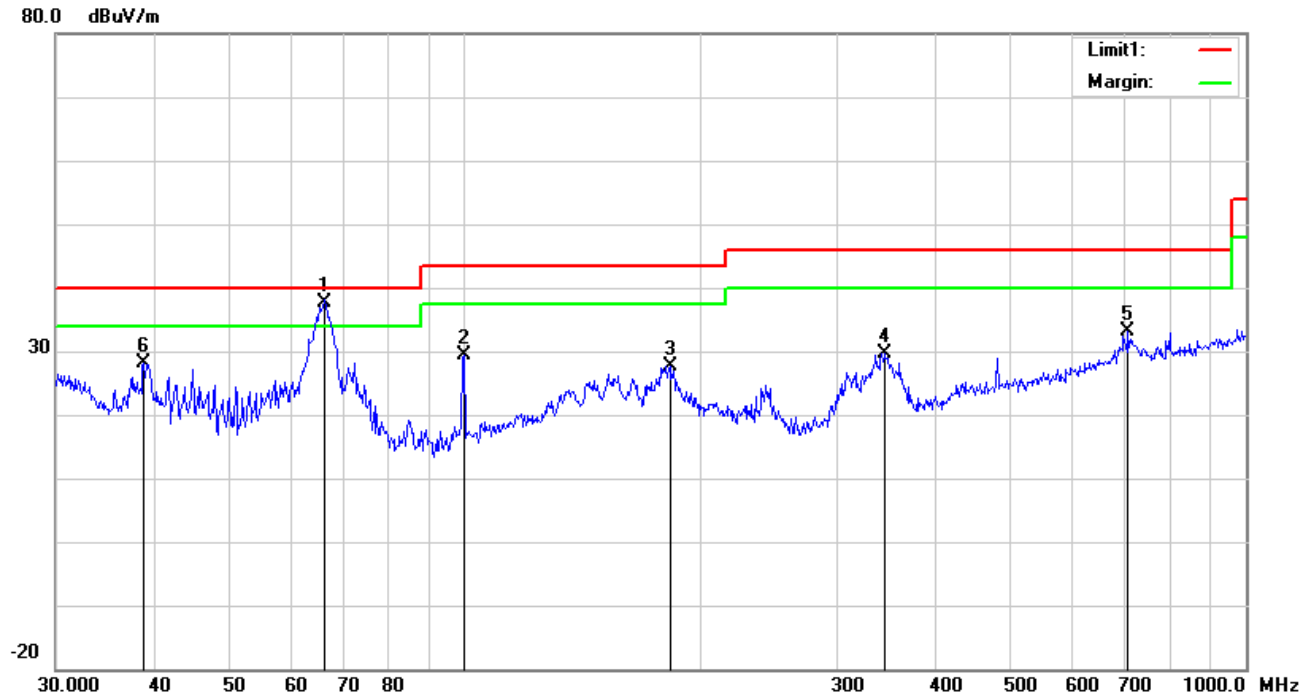


Test Data

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	729.3583	29.39	peak	20.55	21.30	2.73	31.37	46.00	-14.63	100	125
2	H	344.3855	39.65	peak	14.53	22.17	2.01	34.02	46.00	-11.98	100	76
3	H	242.5253	40.65	peak	11.50	22.30	1.68	31.53	46.00	-14.47	100	323
4	H	179.3864	42.23	peak	11.05	22.25	1.36	32.39	43.50	-11.11	100	120
5	H	99.5281	41.93	peak	10.29	22.32	1.11	31.01	43.50	-12.49	100	132
6	H	64.8865	50.92	QP	7.54	22.40	0.88	36.94	40.00	-3.06	100	129

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	66.2662	51.45	QP	7.61	22.39	0.91	37.58	40.00	-2.42	100	262
2	V	99.8777	40.28	peak	10.37	22.32	1.12	29.45	43.50	-14.05	100	119
3	V	183.2005	37.41	peak	11.18	22.27	1.42	27.74	43.50	-15.76	100	5
4	V	344.3855	35.31	peak	14.53	22.17	2.01	29.68	46.00	-16.32	100	97
5	V	706.6999	31.53	peak	20.28	21.35	2.58	33.04	46.00	-12.96	200	45
6	V	38.8879	34.97	peak	14.71	22.27	0.78	28.19	40.00	-11.81	100	136

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)
1416.45	68.05	344	100	V	-19.3	48.75	74	-25.25	PK
2182.89	60.45	214	100	V	-14.12	46.33	74	-27.67	PK
3097.48	60.72	170	100	V	-13.14	47.58	74	-26.42	PK
1379.82	64.14	215	100	H	-19.85	44.29	74	-29.71	PK
2594.61	59.9	289	100	H	-13.63	46.27	74	-27.73	PK
3600.27	58.39	267	100	H	-11.51	46.88	74	-27.12	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.

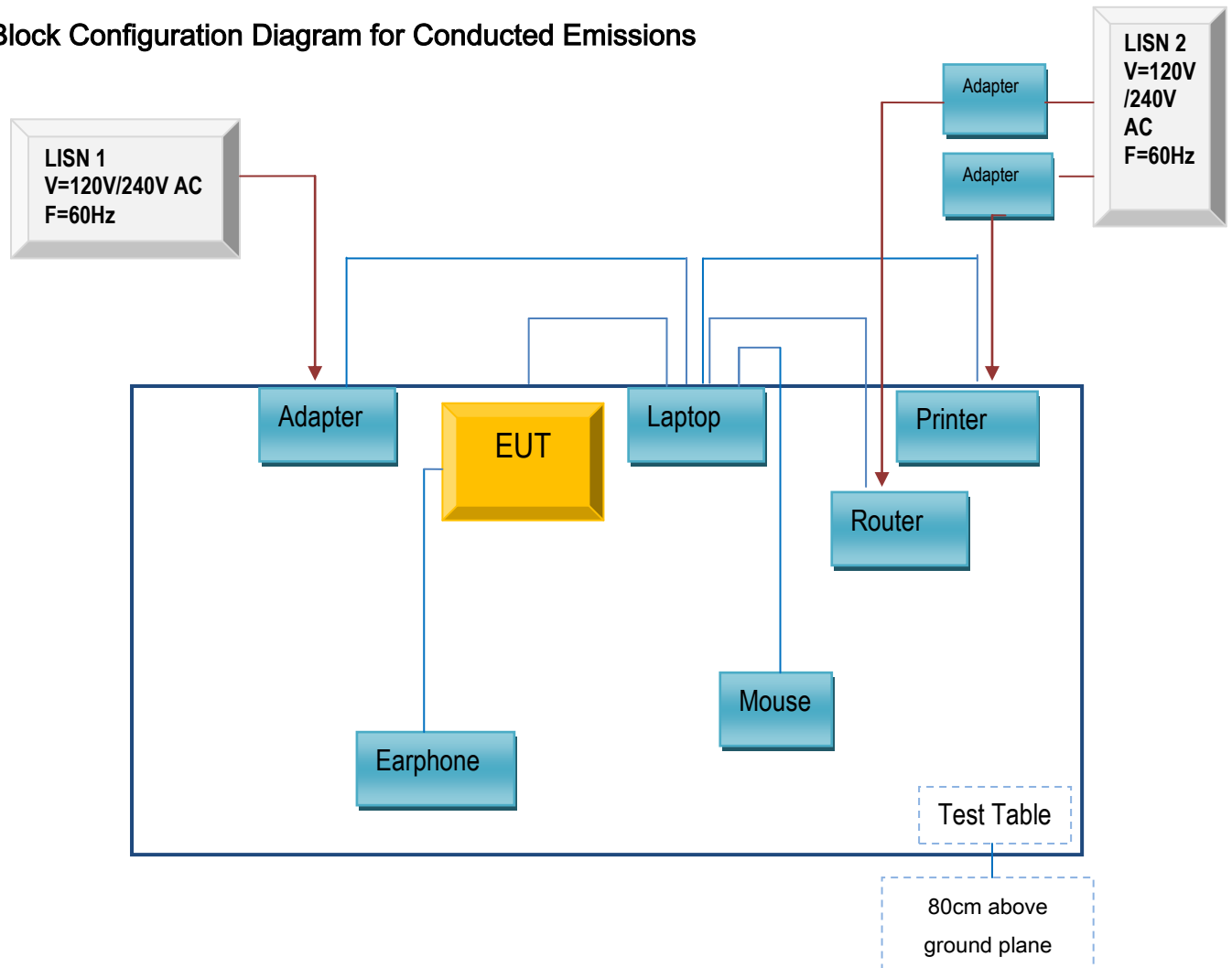
Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted Emissions					
EMI test receiver	ESCS30	8471241027	09/15/2017	09/14/2018	<input checked="" type="checkbox"/>
Line Impedance Stabilization Network	LI-125A	191106	09/23/2017	09/22/2018	<input checked="" type="checkbox"/>
Line Impedance Stabilization Network	LI-125A	191107	09/23/2017	09/22/2018	<input checked="" type="checkbox"/>
LISN	ISN T800	34373	09/23/2017	09/22/2018	<input checked="" type="checkbox"/>
Transient Limiter	LIT-153	531118	08/30/2017	08/29/2018	<input checked="" type="checkbox"/>
Radiated Emissions					
EMI test receiver	ESL6	100262	09/15/2017	09/14/2018	<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"/>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/19/2017	09/18/2018	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna	AH-118	71259	09/22/2017	09/21/2018	<input checked="" type="checkbox"/>

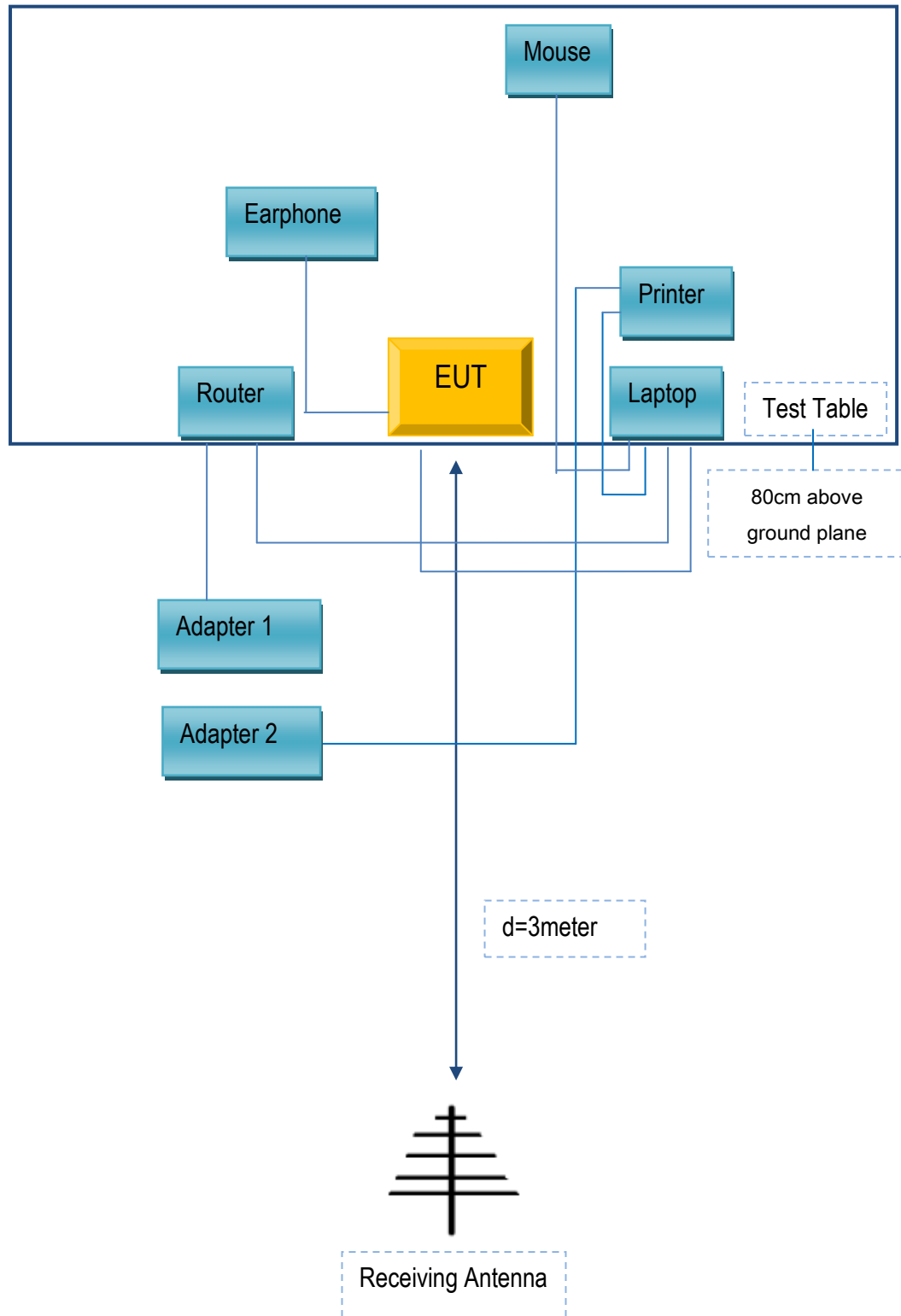
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

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
TECNO MOBILE LIMITED	Earphone	CA7	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

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

Please see the attachment

Annex E. DECLARATION OF SIMILARITY

N/A