

EMC TEST REPORT



Report No.: 17020575-FCC-E1

Supersede Report No.: N/A

Applicant	Nanjing Hanlong Technology Co., Ltd.	
Product Name	IP PHONE	
Model No.	UC926E	
Serial No.	UC924E	
Test Standard	FCC Part 15 Subpart B Class B:2016, ANSI C63.4: 2014	
Test Date	June 20, 2017	
Issue Date	June 23, 2017	
Test Result	☒ Pass ☐ Fail	
Equipment complied with the specification	☒	
Equipment did not comply with the specification	☐	
<i>Trety Lu</i>	<i>Deon Dai</i>	
Trety Lu Test Engineer	Deon Dai Checked By	
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Laboratories Introduction

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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
17020575-FCC-E1	NONE	Original	June 23, 2017

2. Customer information

Applicant Name	Nanjing Hanlong Technology Co., Ltd.
Applicant Add	5th Floor, 1st Building, Huashen Tech Park, 10 Huashen Temple, Yuhuatai Dis, Nanjing China
Manufacturer	Nanjing Hanlong Technology Co., Ltd.
Manufacturer Add	5th Floor, 1st Building, Huashen Tech Park, 10 Huashen Temple, Yuhuatai Dis, Nanjing China

3. Test site information

Lab performing tests	SIEMIC (Nanjing-China) Laboratories
Lab Address	2-1 Longcang Avenue Yuhua Economic and Technology Development Park, Nanjing, China
FCC Test Site No.	986914
IC Test Site No.	4842B-1
Test Software	EZ EMC

4. Equipment under Test (EUT) Information

Description of EUT:	IP PHONE
Date EUT received:	May 18, 2017
Test Date(s):	June 20, 2017
Main Model:	UC926E
Serial Model:	UC924E
Antenna Gain:	Bluetooth/BLE/WIFI:2.8dBi
Input Power:	Adapter: Model:NBS05B050120VU Input Power:100-240V,50/60Hz,0.2A Output:5V,1.2A
Type of Modulation:	802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, $\pi/4$ DQPSK, 8DPSK BLE: GFSK
RF Operating Frequency (ies):	WIFI: 802.11b/g/n(20M): 2412-2472 MHz WIFI: 802.11n(40M): 2422-2462 MHz Bluetooth& BLE: 2402-2480 MHz
Number of Channels:	WIFI :802.11b/g/n(20M): 13CH WIFI :802.11n(40M): 9CH Bluetooth: 79CH BLE: 40CH
Port:	Power Port、Ext Port、Internet Port、PC Port、Earphone Port、Telephone Port
Trade Name :	Htek
FCC ID:	2ACUGUC926ESERIAL

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

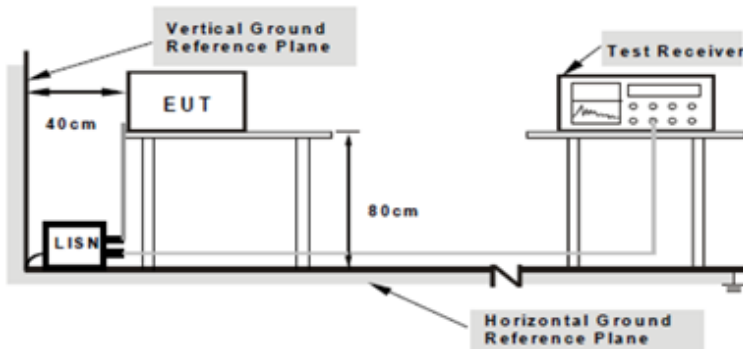
Emissions		
Test Item	Description	Uncertainty
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB

6. Measurements, Examination And Derived Results

6.1 AC Power Line Conducted Emissions

Temperature	24°C
Relative Humidity	56%
Atmospheric Pressure	1023mbar
Test date :	June 20, 2017
Tested By :	Trety Lu

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		1. 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. 2. 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

Data sample

No.	Frequency (MHz)	Reading (dBμV)	Detector	Lisn/Isn (dB)	Ps_Lmt (dB)	Cab_L (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)
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Frequency (MHz) = Emission frequency in MHz

Reading (dBμV) = Receiver Reading Value

Detector=Quasi Peak Detector or Average Detector

Lisn/Isn= Insertion loss of LISN

Ps_Lmt= Insertion loss of transient limiter (The transient limiter included 10dB attenuation)

Cab_L= cable loss

Result (dBμV) = Reading Value + Corrected Value

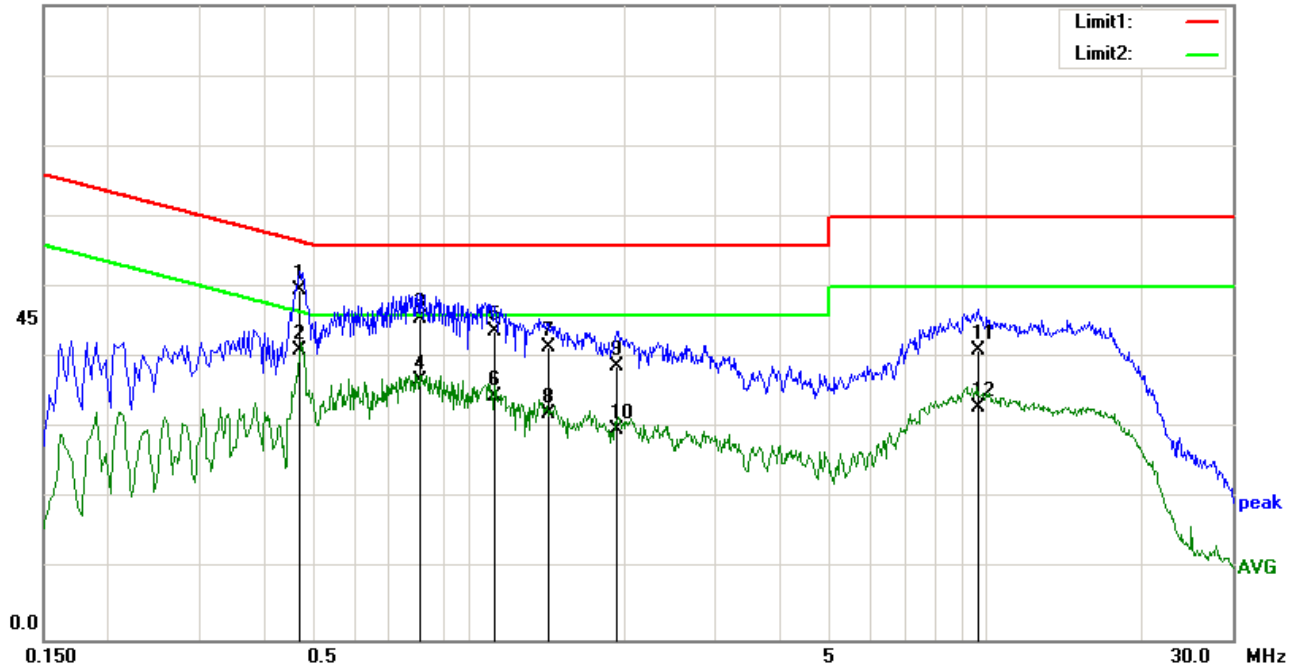
Limit (dBμV) = Limit stated in standard

Calculation Formula:

Margin (dB) = Result (dBμV) – limit (dBμV)

Test Mode : Fully Load Working Mode

90.0 dBuV

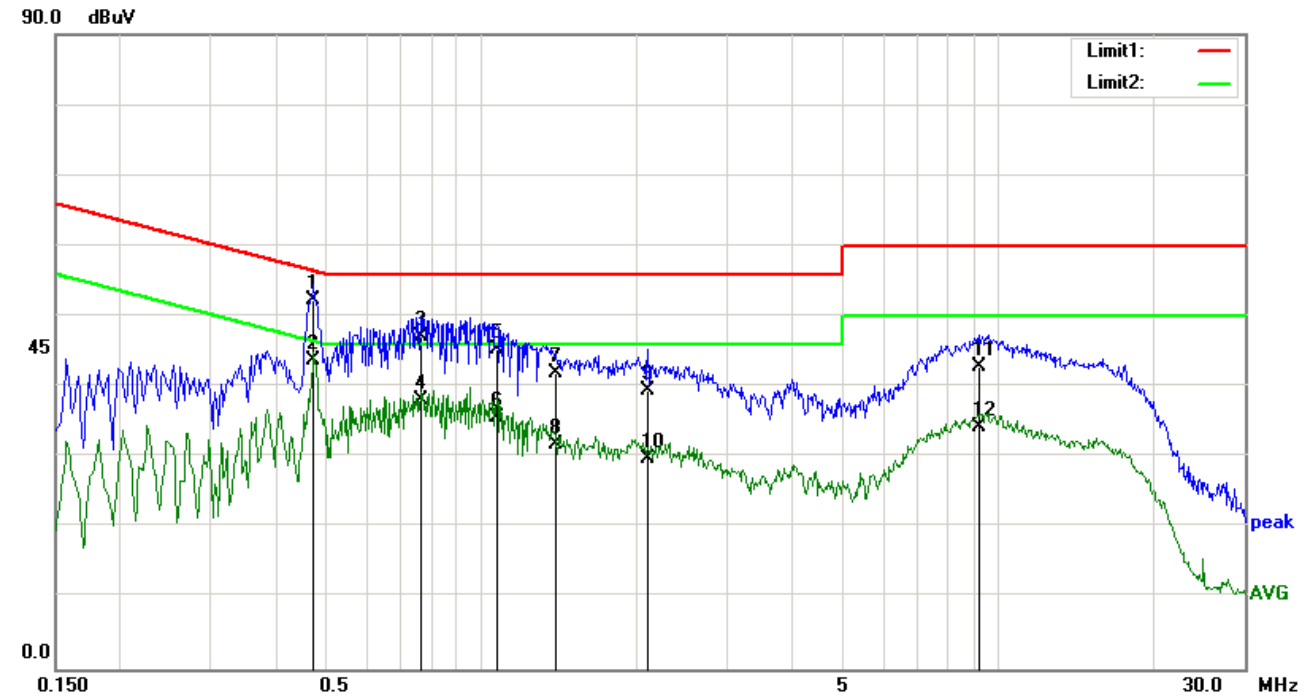


Test Data

Phase Line Plot at 120Vac, 60Hz

No.	Frequency (MHz)	Reading (dBuV)	Detector	Lisn/Isn (dB)	Ps Lmt (dB)	Cab L (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.4700	39.28	QP	0.12	-10.00	0.21	49.61	56.51	-6.90
2	0.4700	30.75	AVG	0.12	-10.00	0.21	41.08	46.51	-5.43
3	0.8020	35.21	QP	0.13	-10.00	0.20	45.54	56.00	-10.46
4	0.8020	26.46	AVG	0.13	-10.00	0.20	36.79	46.00	-9.21
5	1.1180	33.48	QP	0.14	-10.00	0.20	43.82	56.00	-12.18
6	1.1180	24.26	AVG	0.14	-10.00	0.20	34.60	46.00	-11.40
7	1.4220	31.12	QP	0.15	-10.00	0.20	41.47	56.00	-14.53
8	1.4220	21.76	AVG	0.15	-10.00	0.20	32.11	46.00	-13.89
9	1.9380	28.56	QP	0.16	-10.00	0.19	38.91	56.00	-17.09
10	1.9380	19.43	AVG	0.16	-10.00	0.19	29.78	46.00	-16.22
11	9.6660	30.29	QP	0.48	-10.00	0.39	41.16	60.00	-18.84
12	9.6660	22.18	AVG	0.48	-10.00	0.39	33.05	50.00	-16.95

Test Mode : Fully Load Working Mode

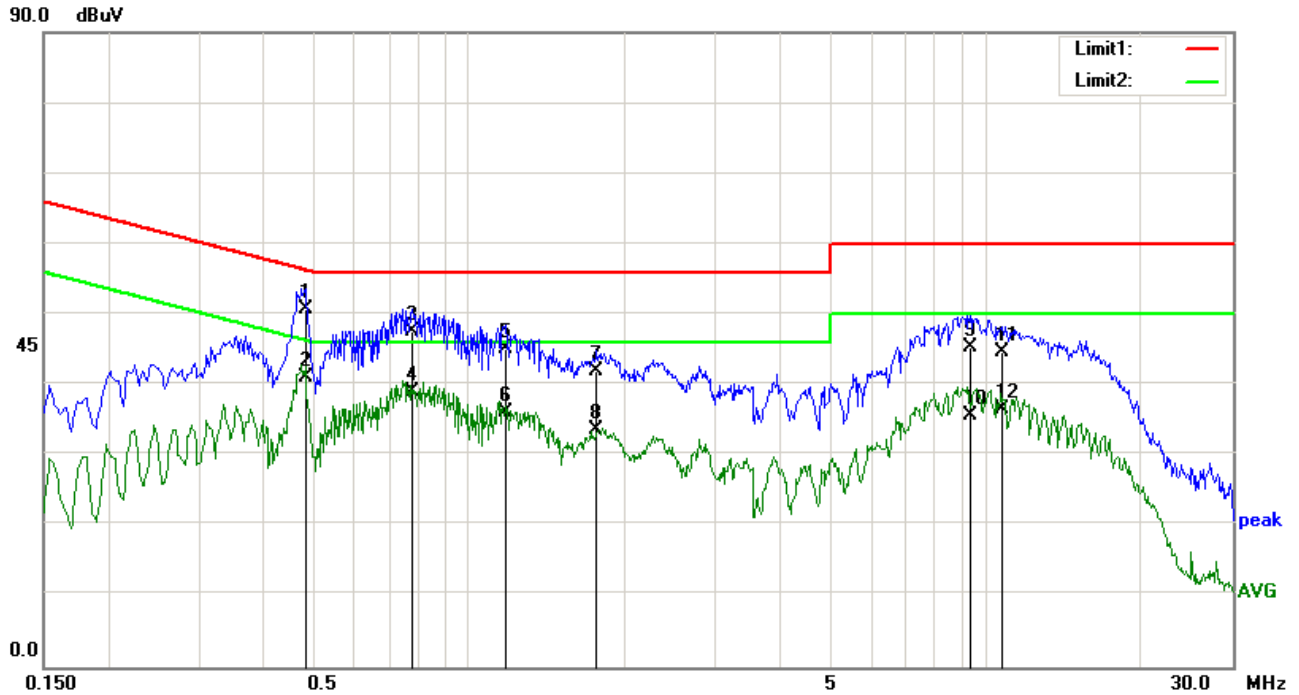


Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	Frequency (MHz)	Reading (dBuV)	Detector	Lisn/Isn (dB)	Ps Lmt (dB)	Cab L (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.4740	41.99	QP	0.11	-10.00	0.21	52.31	56.44	-4.13
2	0.4740	33.46	AVG	0.11	-10.00	0.21	43.78	46.44	-2.66
3	0.7660	36.90	QP	0.12	-10.00	0.20	47.22	56.00	-8.78
4	0.7660	27.87	AVG	0.12	-10.00	0.20	38.19	46.00	-7.81
5	1.0740	34.92	QP	0.13	-10.00	0.20	45.25	56.00	-10.75
6	1.0740	25.28	AVG	0.13	-10.00	0.20	35.61	46.00	-10.39
7	1.4020	31.54	QP	0.15	-10.00	0.20	41.89	56.00	-14.11
8	1.4020	21.58	AVG	0.15	-10.00	0.20	31.93	46.00	-14.07
9	2.1100	29.08	QP	0.17	-10.00	0.20	39.45	56.00	-16.55
10	2.1100	19.36	AVG	0.17	-10.00	0.20	29.73	46.00	-16.27
11	9.2420	31.99	QP	0.50	-10.00	0.38	42.87	60.00	-17.13
12	9.2420	23.33	AVG	0.50	-10.00	0.38	34.21	50.00	-15.79

Test Mode : Fully Load Working Mode

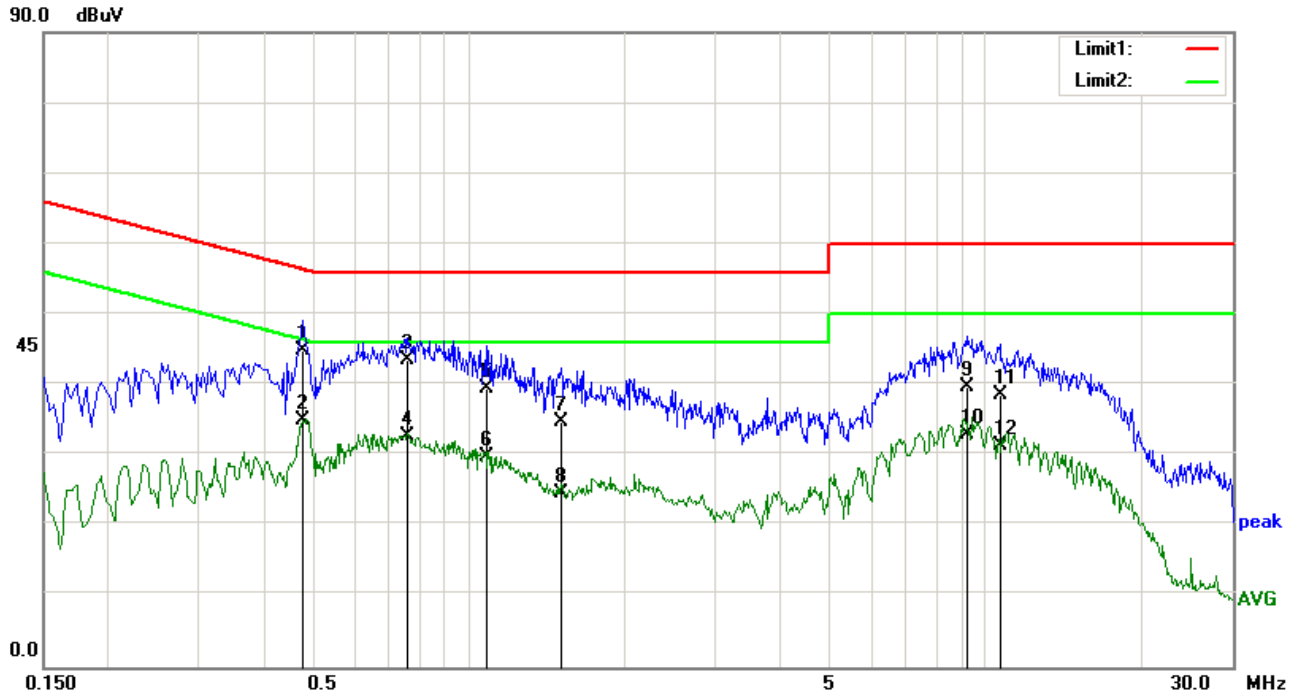


Test Data

Phase Line Plot at 230Vac, 50Hz

No.	Frequency (MHz)	Reading (dBuV)	Detector	Lisn/Isn (dB)	Ps_Lmt (dB)	Cab_L (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.4820	40.34	QP	0.12	-10.00	0.21	50.67	56.30	-5.63
2	0.4820	30.62	AVG	0.12	-10.00	0.21	40.95	46.30	-5.35
3	0.7780	37.22	QP	0.13	-10.00	0.20	47.55	56.00	-8.45
4	0.7780	28.62	AVG	0.13	-10.00	0.20	38.95	46.00	-7.05
5	1.1820	34.71	QP	0.14	-10.00	0.20	45.05	56.00	-10.95
6	1.1820	25.79	AVG	0.14	-10.00	0.20	36.13	46.00	-9.87
7	1.7660	31.58	QP	0.16	-10.00	0.21	41.95	56.00	-14.05
8	1.7660	23.17	AVG	0.16	-10.00	0.21	33.54	46.00	-12.46
9	9.3140	34.51	QP	0.47	-10.00	0.38	45.36	60.00	-14.64
10	9.3140	24.77	AVG	0.47	-10.00	0.38	35.62	50.00	-14.38
11	10.7780	33.69	QP	0.55	-10.00	0.50	44.74	60.00	-15.26
12	10.7780	25.41	AVG	0.55	-10.00	0.50	36.46	50.00	-13.54

Test Mode : Fully Load Working Mode



Test Data

Phase Neutral Plot at 230Vac, 50Hz

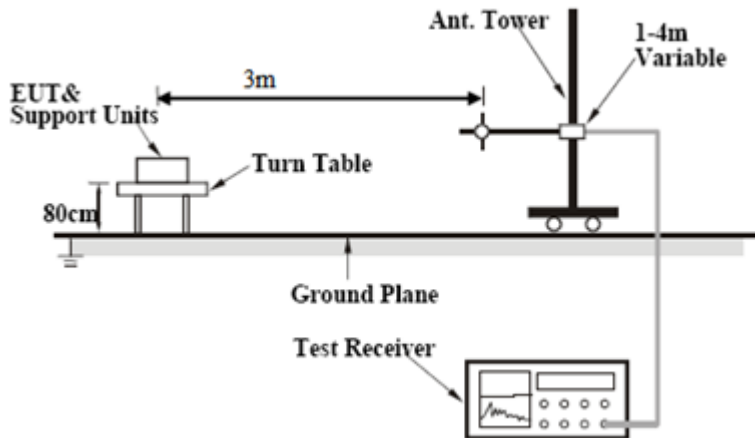
No.	Frequency (MHz)	Reading (dBuV)	Detector	Lisn/Isn (dB)	Ps Lmt (dB)	Cab L (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.4780	34.59	QP	0.11	-10.00	0.21	44.91	56.37	-11.46
2	0.4780	24.65	AVG	0.11	-10.00	0.21	34.97	46.37	-11.40
3	0.7620	33.17	QP	0.12	-10.00	0.20	43.49	56.00	-12.51
4	0.7620	22.33	AVG	0.12	-10.00	0.20	32.65	46.00	-13.35
5	1.0820	29.26	QP	0.13	-10.00	0.20	39.59	56.00	-16.41
6	1.0820	19.38	AVG	0.13	-10.00	0.20	29.71	46.00	-16.29
7	1.5100	24.52	QP	0.15	-10.00	0.20	34.87	56.00	-21.13
8	1.5100	14.30	AVG	0.15	-10.00	0.20	24.65	46.00	-21.35
9	9.1740	28.86	QP	0.50	-10.00	0.38	39.74	60.00	-20.26
10	9.1740	22.15	AVG	0.50	-10.00	0.38	33.03	50.00	-16.97
11	10.6340	27.60	QP	0.58	-10.00	0.50	38.68	60.00	-21.32
12	10.6340	20.36	AVG	0.58	-10.00	0.50	31.44	50.00	-18.56

6.2 Radiated Emissions

Temperature	24°C
Relative Humidity	56%
Atmospheric Pressure	1023mbar
Test date :	June 20, 2017
Tested By :	Trety Lu

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	
		88 – 216	
		216 960	
		Above 960	

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 over a full rotation of the EUT) was chosen. - The EUT was then rotated to the direction that gave the maximum emission. - Finally, the antenna height was adjusted to the height that gave the maximum emission. - The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi Peak detection at frequency below 1GHz. - 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%) - Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.
Remark	

Result	☒ Pass	☐ Fail
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Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Data sample

No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBμV/m)		(dB/m)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(cm)	(°)

Frequency (MHz) = Emission frequency in MHz

Reading (dBμV/m) = Receiver Reading Value

Detector= Peak Detector or Quasi Peak Detector

Ant_F=Antenna Factor

PA_G=Pre-Amplifier Gain

Cab_L=Cable Loss

Result (dBμV/m) = Reading Value + Corrected Value

Limit (dBμV/m) = Limit stated in standard

Height (cm) = Height of Receiver antenna

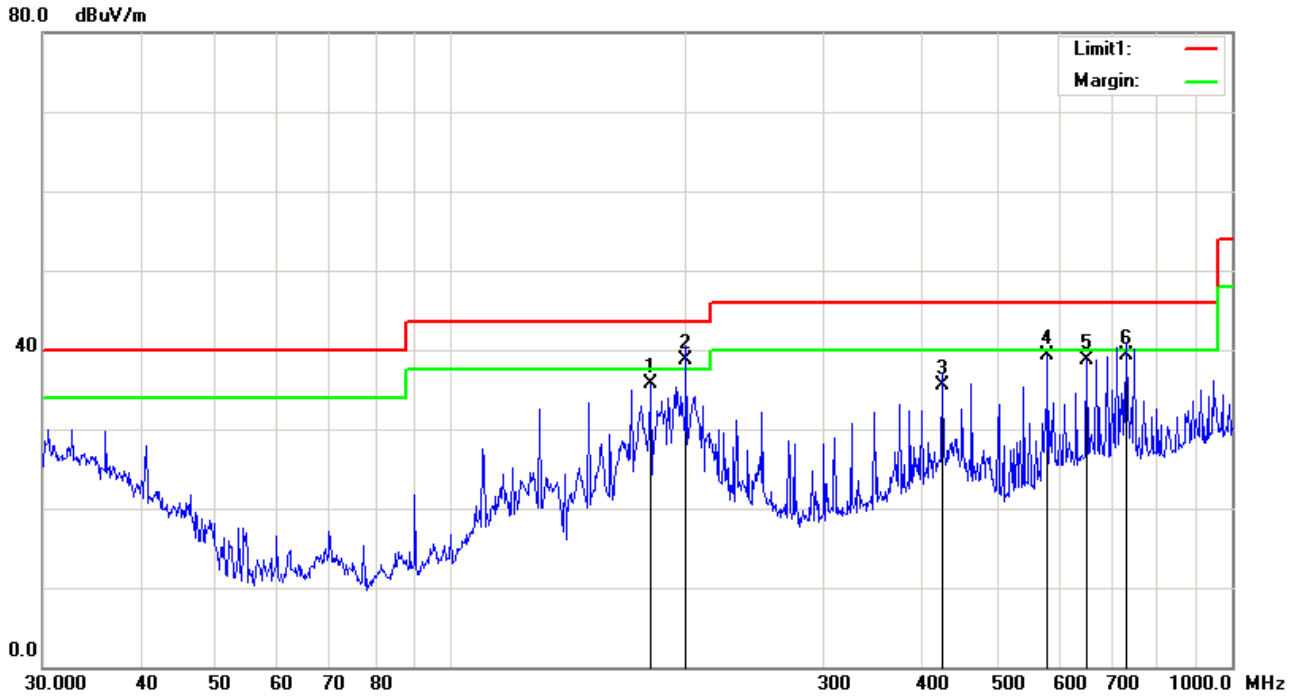
Degree = Turn table degree

Calculation Formula:

Margin (dB) = Result (dBμV/m) – limit (dBμV/m)

Test Mode : Fully Load Working Mode

Below 1GHz



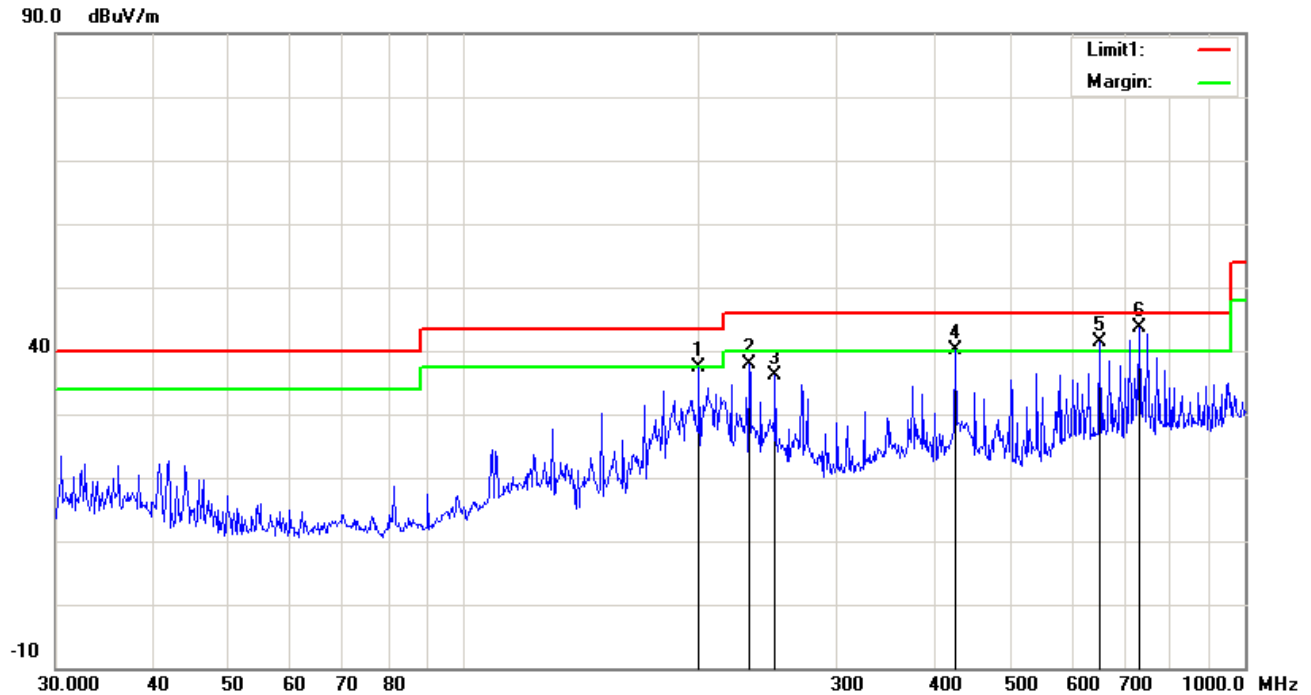
Test Data

Horizontal Polarity Plot @3m

No.	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	180.0165	67.52	peak	12.30	46.31	2.16	35.67	43.50	-7.83	200	151
2	199.9856	69.00	QP	14.85	47.34	2.26	38.77	43.50	-4.73	100	197
3	426.5210	64.70	peak	16.55	49.09	3.32	35.48	46.00	-10.52	200	66
4	580.7026	64.73	peak	19.31	48.64	3.86	39.26	46.00	-6.74	100	91
5	651.9417	61.32	peak	21.47	48.15	4.10	38.74	46.00	-7.26	300	30
6	731.9203	58.07	QP	22.26	45.38	4.34	39.29	46.00	-6.71	100	242

Test Mode : Fully Load Working Mode

Below 1GHz



Test Data

Vertical Polarity Plot @3m

No.	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	199.9856	69.13	peak	13.39	47.34	2.26	37.44	43.50	-6.06	200	246
2	231.7179	68.37	peak	14.50	47.53	2.42	37.76	46.00	-8.24	100	144
3	250.3012	66.12	peak	15.16	47.74	2.51	36.05	46.00	-9.95	300	253
4	425.0280	69.83	QP	16.00	49.09	3.31	40.05	46.00	-5.95	200	235
5	651.9417	63.46	QP	21.85	48.15	4.10	41.26	46.00	-4.74	300	241
6	731.9203	62.05	QP	22.59	45.38	4.34	43.60	46.00	-2.40	200	202

Test Mode :	Fully Load Working Mode
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Above 1GHz

Vertical

No.	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	4876.000	56.37	peak	33.33	53.66	6.00	42.04	74.00	-31.96	100	318
2	7477.000	54.64	peak	35.06	54.82	7.38	42.26	74.00	-31.74	200	345
3	8031.000	53.91	peak	40.19	57.17	11.21	48.14	74.00	-25.86	100	336
4	10690.000	53.23	peak	38.52	53.11	9.41	48.05	74.00	-25.95	200	321
5	11104.000	53.64	peak	40.73	51.84	9.60	52.13	74.00	-21.87	300	360
6	12705.000	53.69	peak	39.01	50.82	10.28	52.16	74.00	-21.84	300	333

Horizontal

No.	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	4842.000	56.72	peak	33.25	53.51	6.05	42.51	74.00	-31.49	100	30
2	7970.000	55.91	peak	36.51	54.74	7.82	45.50	74.00	-28.50	100	157
3	8535.000	53.67	peak	39.42	50.15	10.19	53.13	74.00	-20.87	100	63
4	9328.000	53.87	peak	41.58	52.44	9.27	52.28	74.00	-21.72	100	308
5	10333.000	54.96	peak	38.63	53.39	9.31	49.51	74.00	-24.49	100	142
6	11104.000	53.77	peak	40.73	51.84	9.60	52.26	74.00	-21.74	100	151

Note1: The frequency that above 3GHz is mainly from the environment noise.

Note2: 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					
R&S EMI Test Receiver	ESPI3	101216	05/03/2017	05/02/2018	☒
V-LISN	ESH3-Z5	838979/005	03/30/2017	03/29/2018	☒
SIEMIC EZ EMC Conducted Emissions	Ver.ICP-03A1	N/A	N/A	N/A	☒
Radiated Emissions					
Spectrum Analyzer	N9010A	MY47191130	05/03/2017	05/02/2018	☒
R&S EMI Receiver	ESPI3	101216	05/03/2017	05/02/2018	☒
Antenna (30MHz~6GHz)	JB6	A121411	10/31/2016	10/31/2017	☒
EMCO Horn Antenna (1 ~18GHz)	3115	N/A	11/15/2016	11/14/2017	☒
INFOMW Antenna (1 ~18GHz)	JXTXLB-10180	J2031081120092	10/09/2016	10/08/2017	☒
Hp Pre-Amplifier	8447F	1937A01160	10/31/2016	10/30/2017	☒
Agilent Pre-Amplifier	8449B	N/A	10/31/2016	10/30/2017	☒
MITEQ Pre-Amplifier (0.1 ~ 18GHz)	AMF-7D-00101800-	1451709	10/27/2016	10/26/2017	☒
SIEMIC EZ EMC Radiated Emissions software	Ver.ICP-03A1	N/A	N/A	N/A	☒

Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo



The Whole of EUT - Front View



Adapter - Front View



Adapter – Right View



EUT - Top View



EUT - Bottom View



EUT - Front View



EUT - Rear View

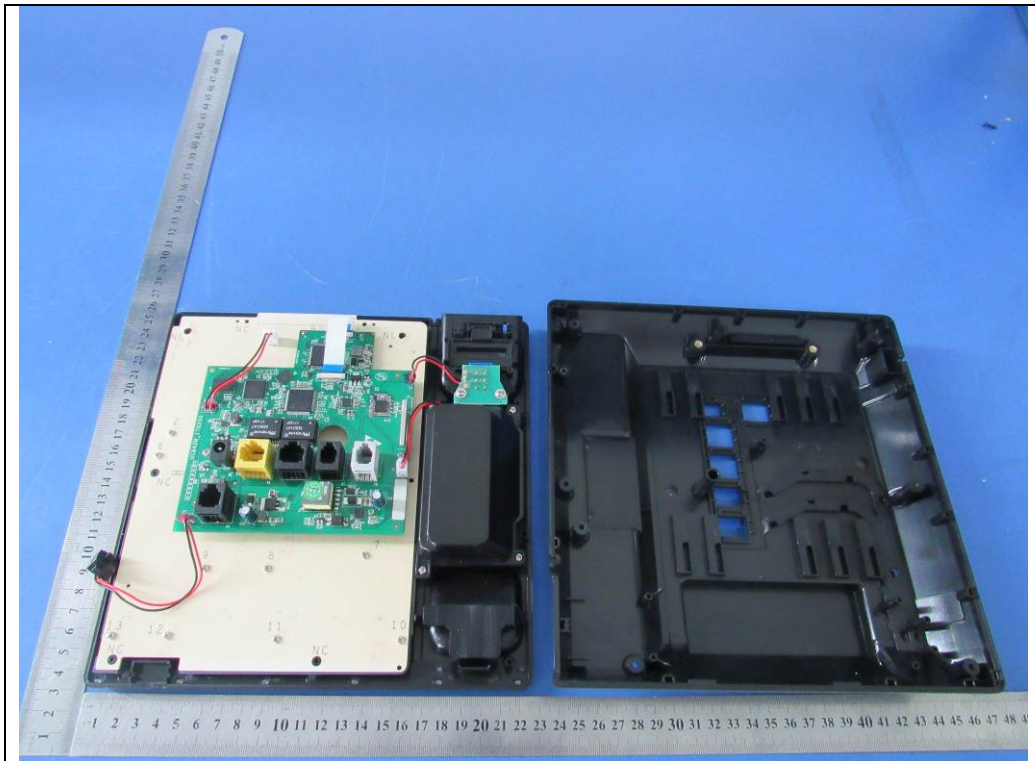


EUT - Left View

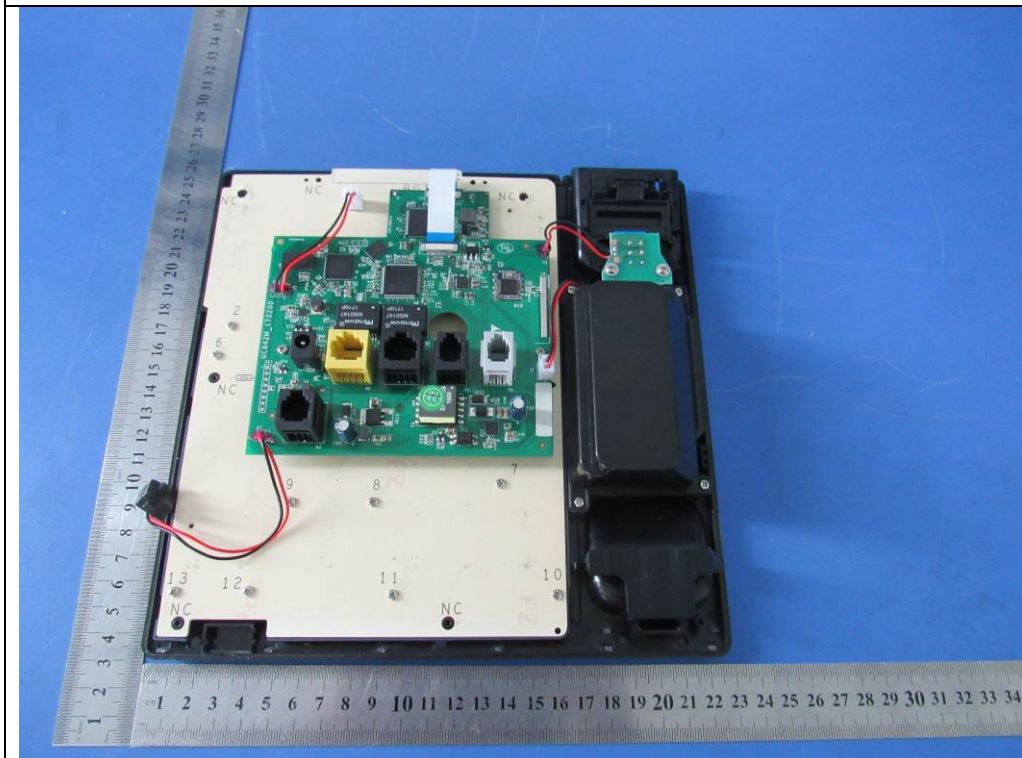


EUT - Right View

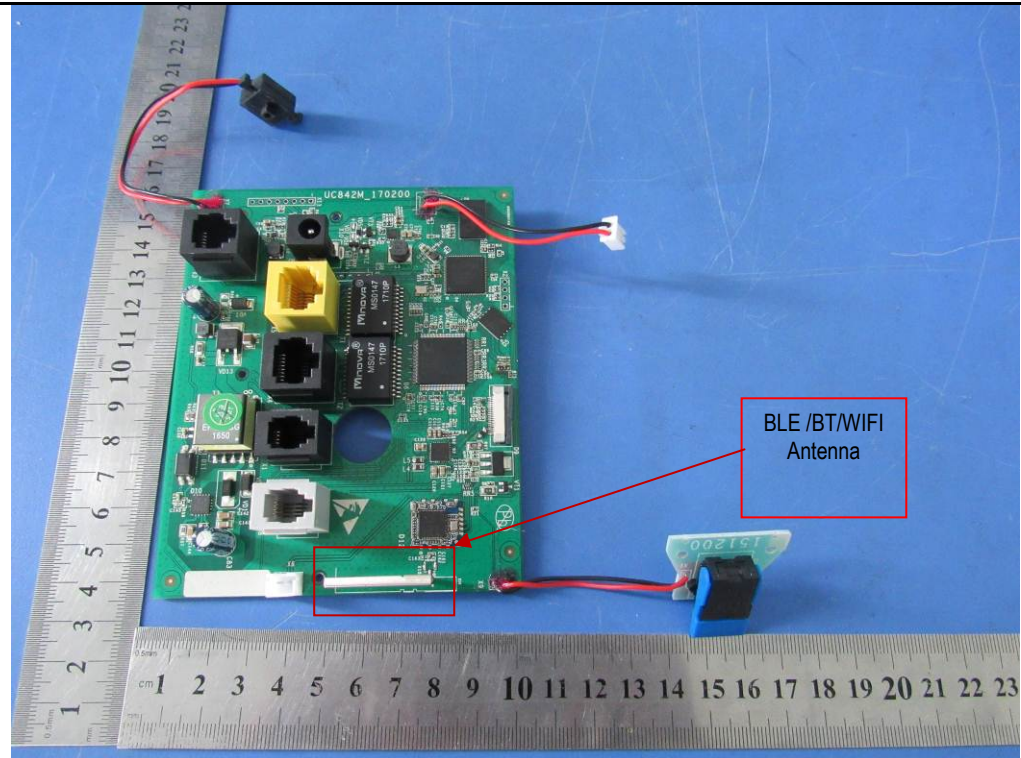
Annex B.ii. Photograph: EUT Internal Photo



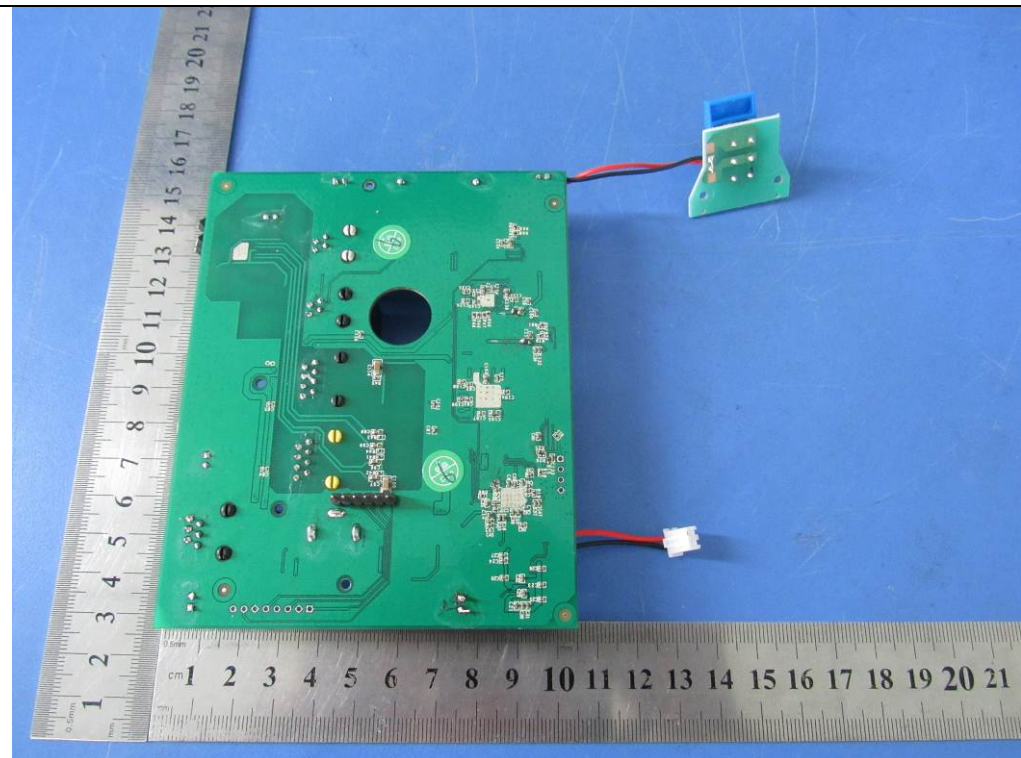
EUT – Uncover Front View - 1



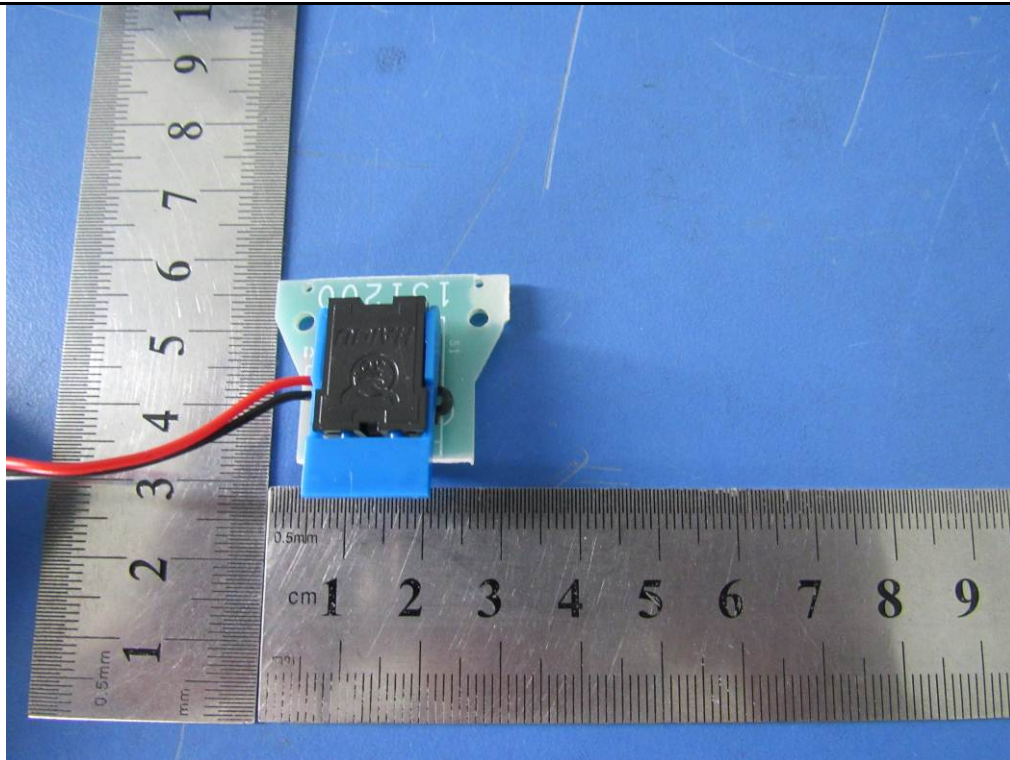
EUT – Uncover Front View - 2



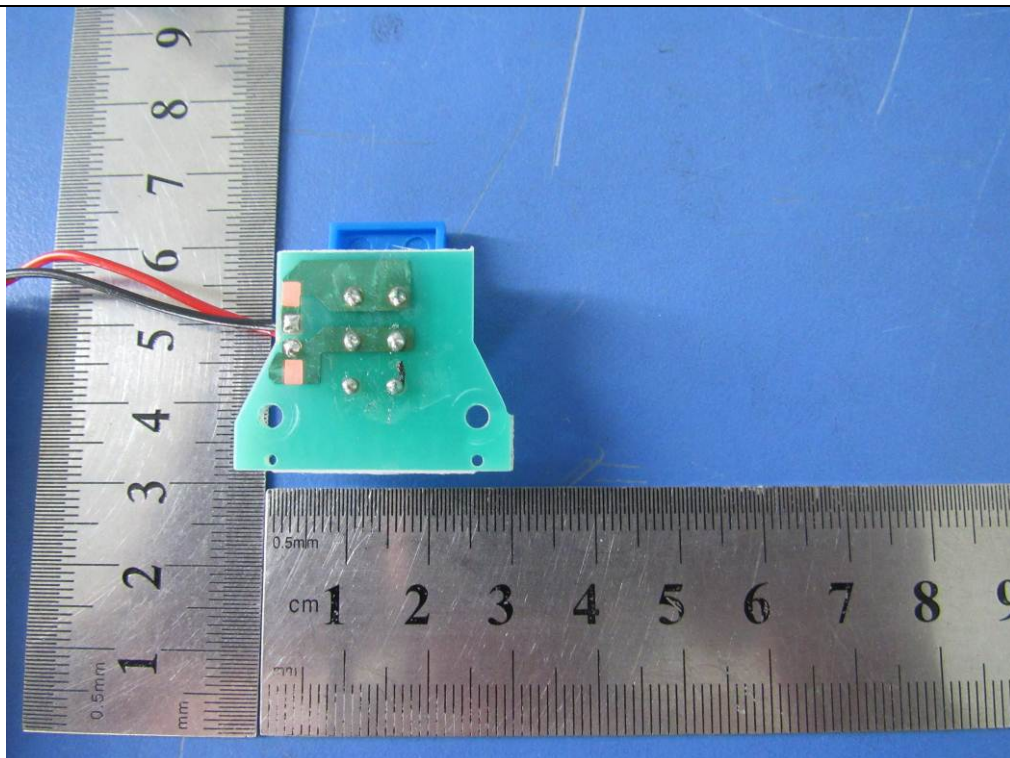
EUT PCB1 – Front View



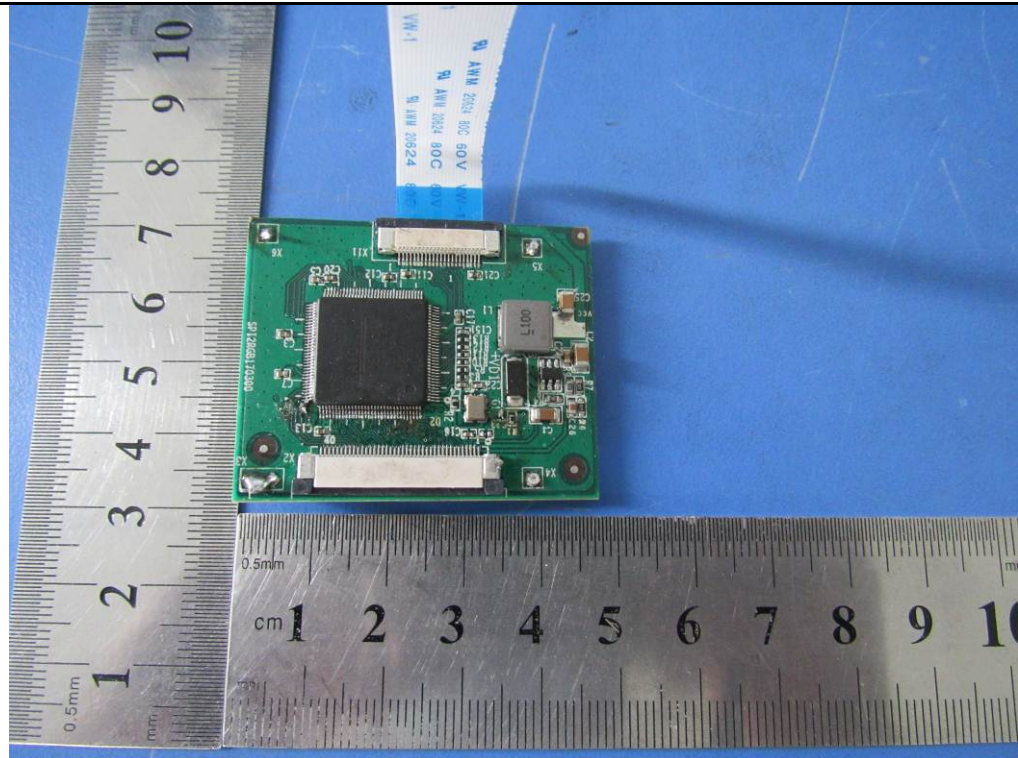
EUT PCB1 – Rear View



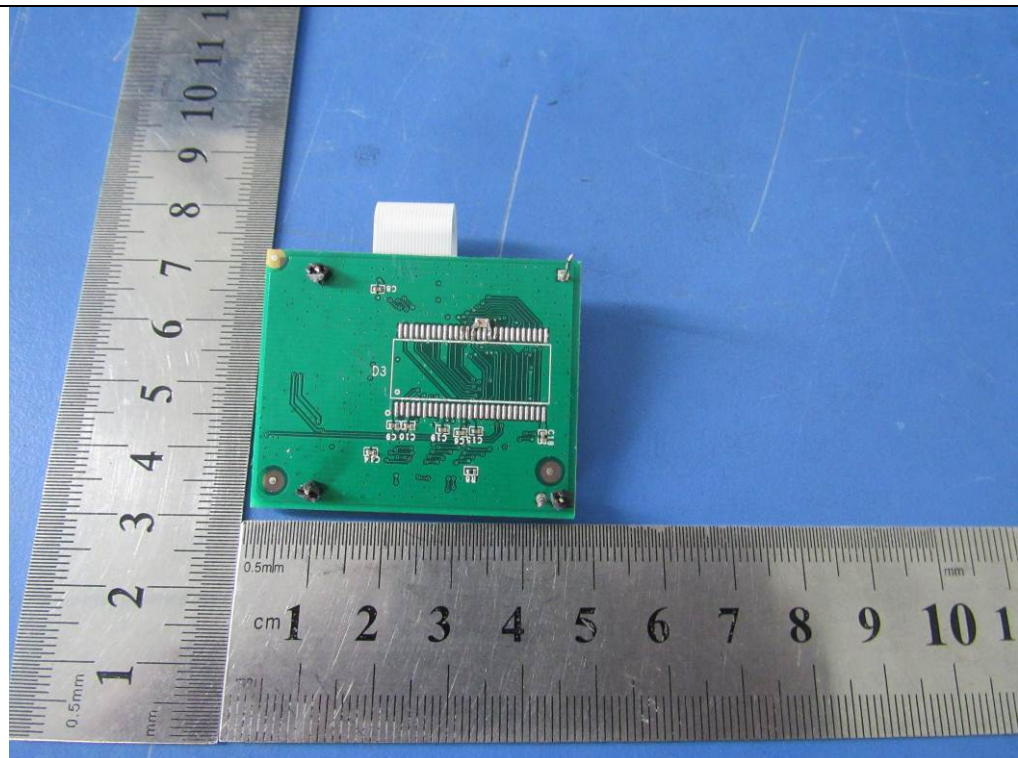
EUT PCB2 – Front View



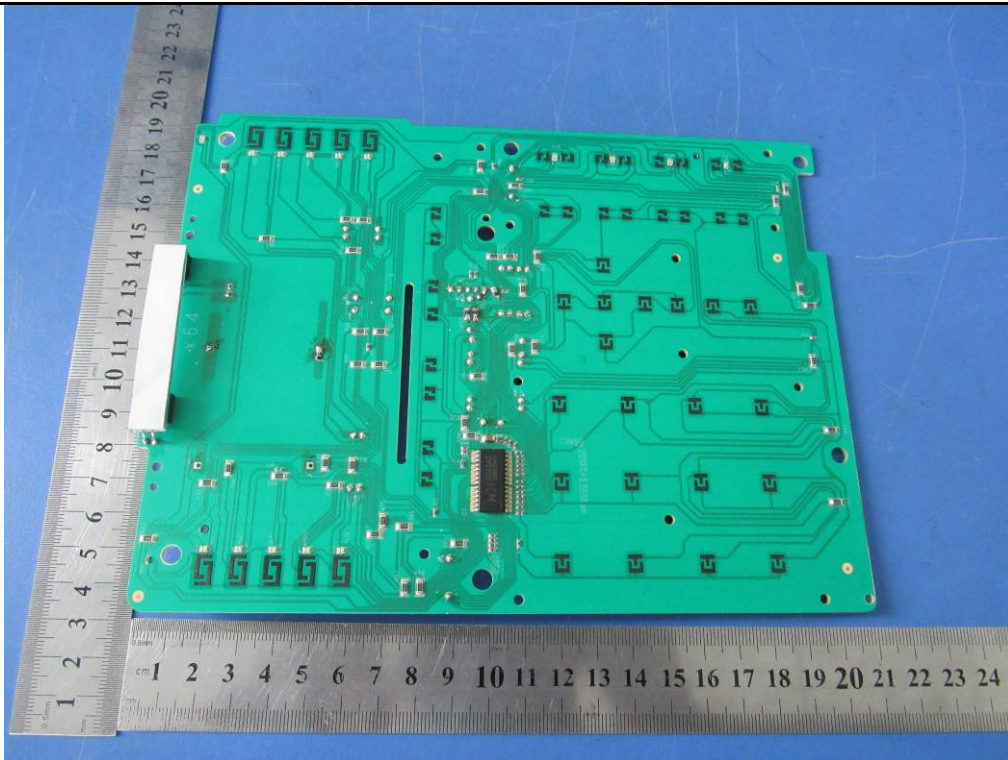
EUT PCB2 – Rear View



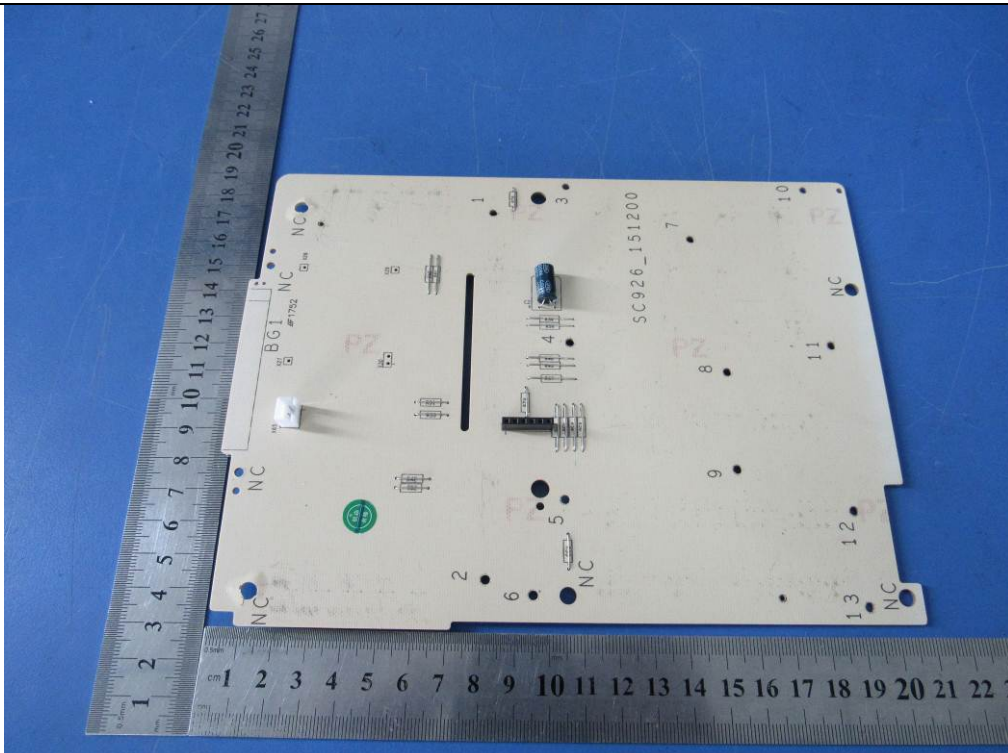
EUT PCB3 – Front View



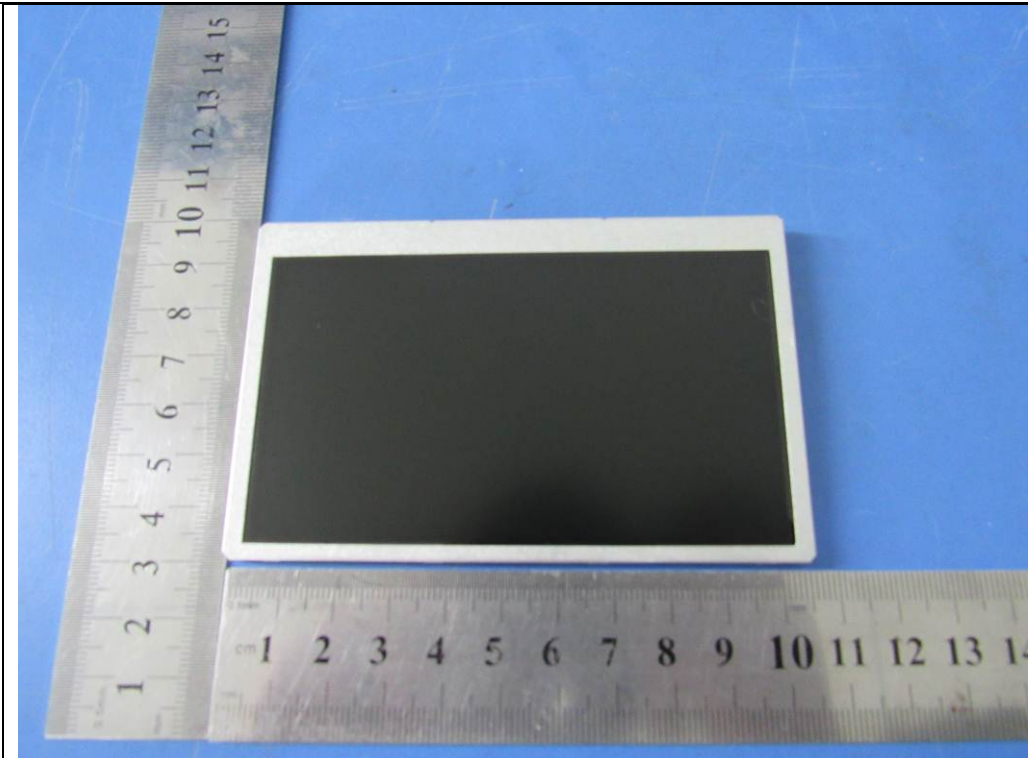
EUT PCB3 – Rear View



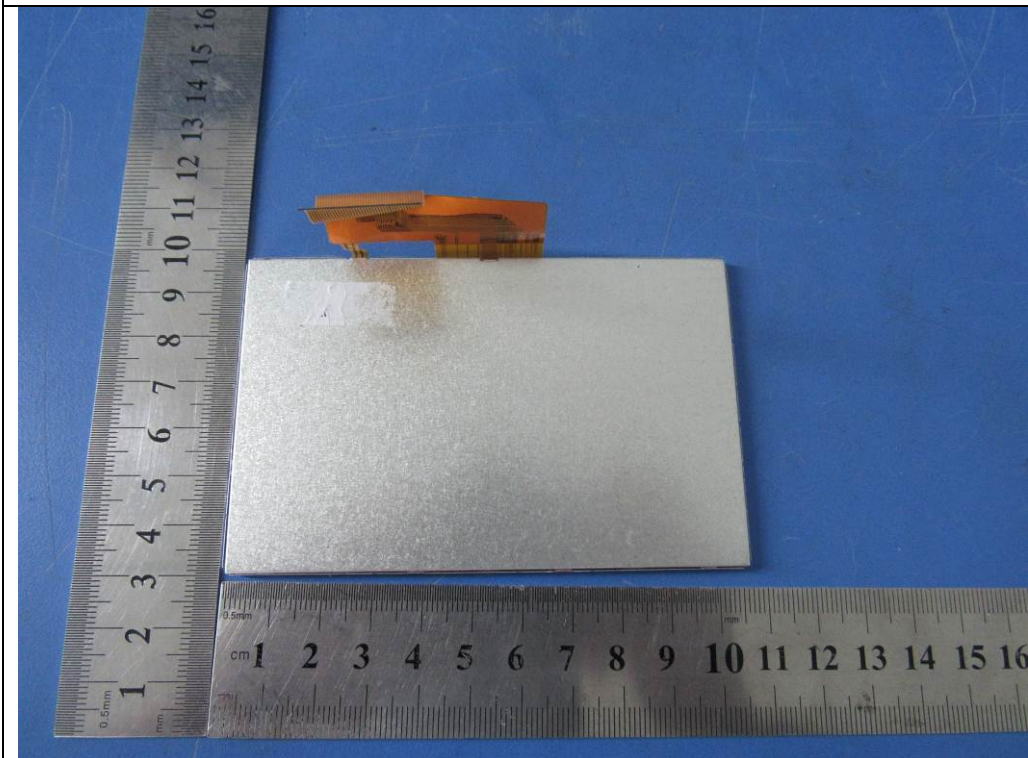
EUT PCB4 – Front View



EUT PCB4 – Rear View



EUT Screen – Front View



EUT Screen – Rear View

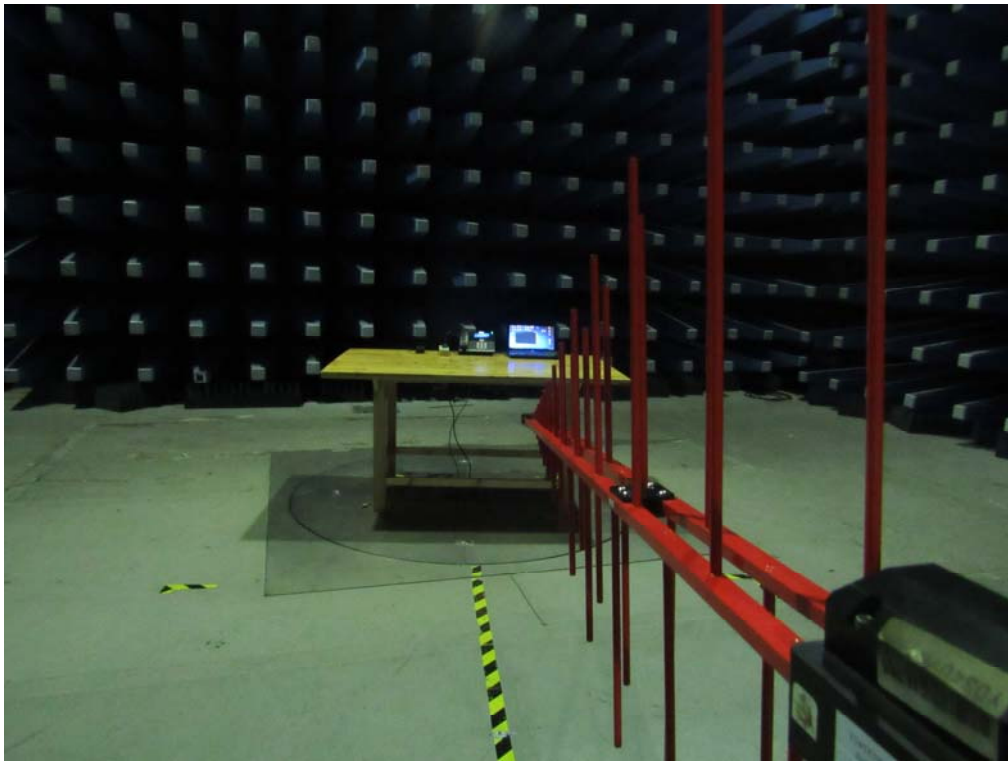
Annex B.iii. Photograph: Test Setup Photo



Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz

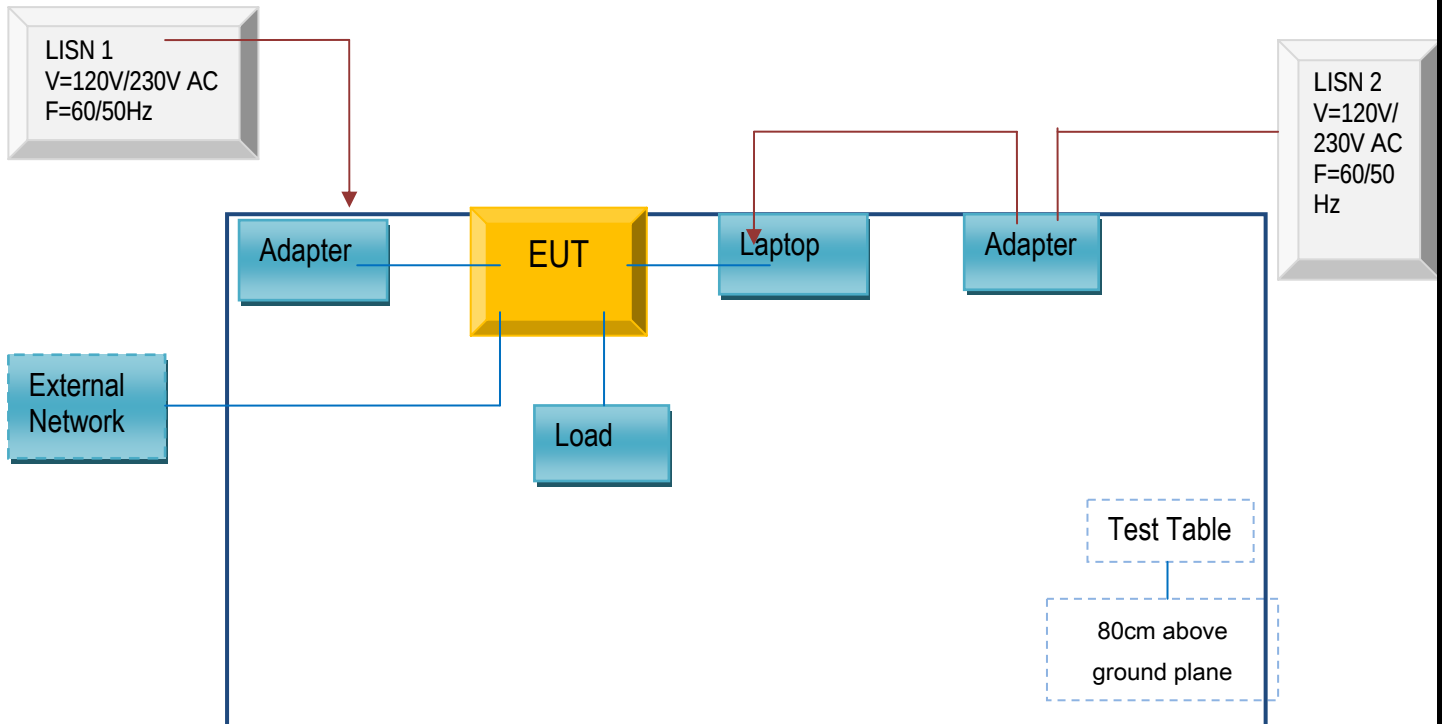


Radiated Spurious Emissions Test Setup Above 1GHz

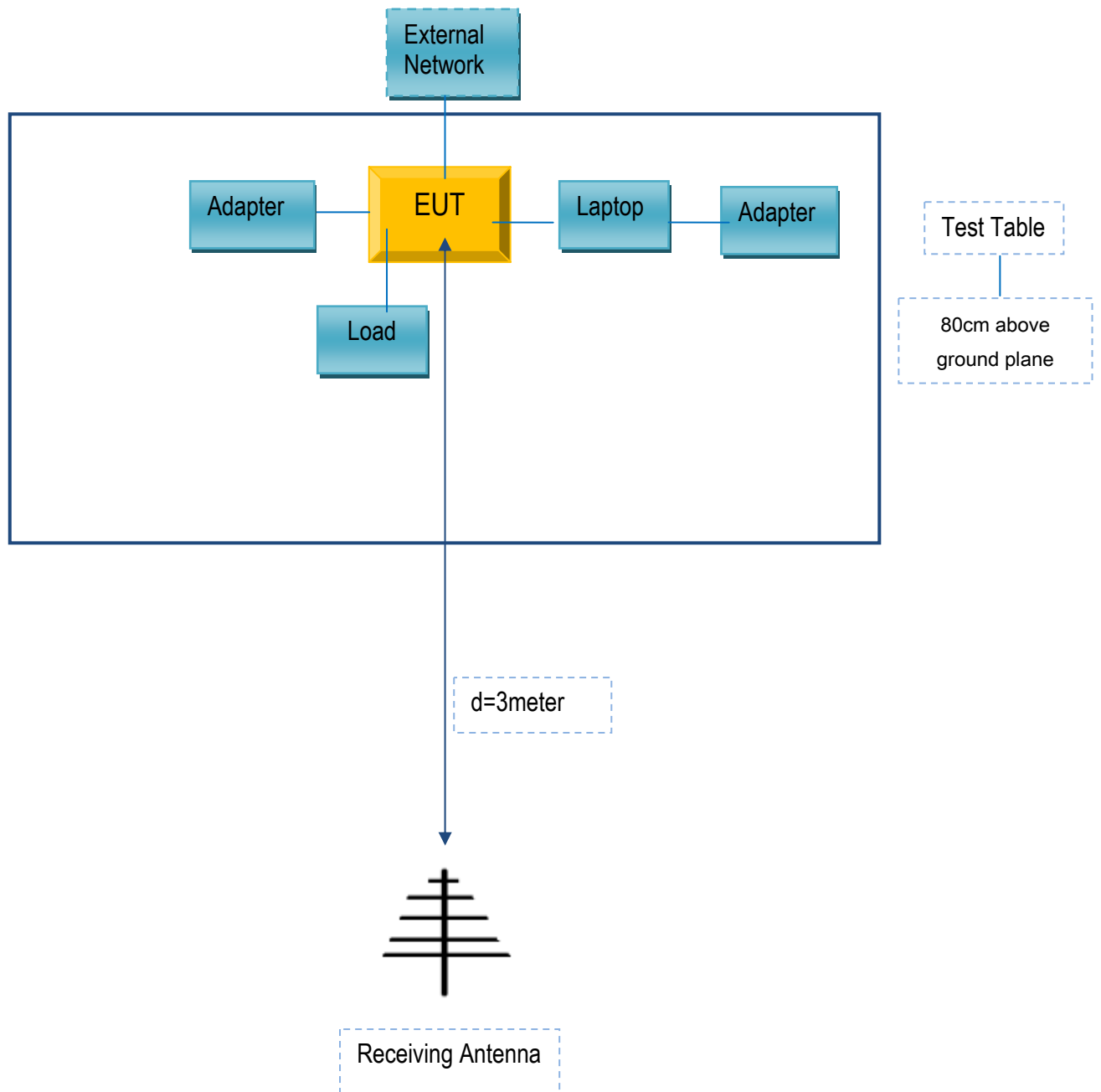
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for 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
HP	Laptop	4321S	N/A
N/A	Load	N/A	N/A

Supporting Cable:

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

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

See attachment

Annex E. DECLARATION OF SIMILARITY

Nanjing Hanlong Technology Co., Ltd.

Statement

Model number: UC926E, UC924E

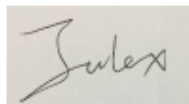
FCC ID: 2ACUGUC926ESERIAL

We hereby state that UC926E, UC924E are identical in interior structure, electrical circuits and components, and just model names 、 the number of account keys and screen sizes are different.

Your assistance on this matter is highly appreciated.

Sincerely,

Signature:



Name : Julex

Title: Marketing Director

Company Name: Nanjing Hanlong Technology Co.,Ltd.

Address: 5th Floor, 1st Building, Huashen Tech Park, 10 Huashen Temple,
Yuhuatai Dis, Nanjing China

Telephone: 025-84658050

E-mail: Julex@hanlongtek.com