EMC TEST REPORT

Report No.: 17020576-FCC-E1
Supersede Report No.: N/A

Applicant	Sangoma Technologies Corp.
Product Name	IP PHONE
Model No.	S705
Serial No.	S505
Test Standard	FCC Part 15 Subpart B Class B:2016, ANSI C63.4: 2014
Test Date	June 20, 2017
Issue Date	June 28, 2017
Test Result	☑ Pass ☐ Fail
Equipment complied with the specification	☑
Equipment did not comply with the specification	☐

Trety Lu	Deon Dai	
Trety Lu Test Engineer	Deon Dai Checked By	

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Test result presented in this test report is applicable to the tested sample only

Issued 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
17020576-FCC-E1	NONE	Original	June 28, 2017

2. Customer information

Applicant Name	Sangoma Technologies Corp.
Applicant Add	100 Renfrew Drive, Suite 100 / Markham, ON L3R 9R6 CANADA
Manufacturer	Sangoma Technologies Corp.
Manufacturer Add	100 Renfrew Drive, Suite 100 / Markham, ON L3R 9R6 CANADA

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:	S705
Serial Model:	S505
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, π/4DQPSK, 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 :	Sangoma
FCC ID:	2AL9Y-PHONS705A

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

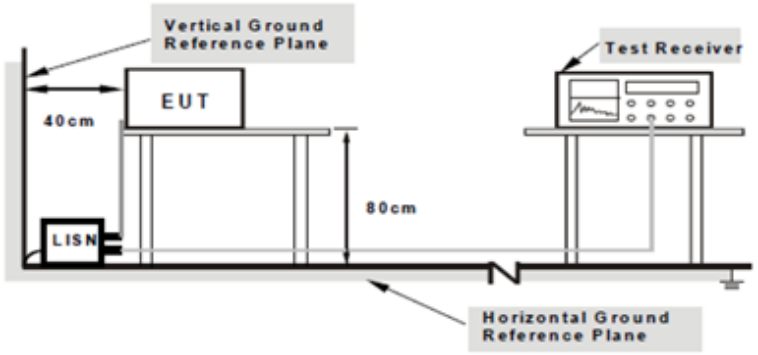
Temperature	24℃
Relative Humidity	56%
Atmospheric Pressure	1023mbar
Test date :	June 20, 2017
Tested By :	Trety Lu

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.	☑

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	Reading	Detector	Lisn/Isn	Ps_Lmt	Cab_L	Result	Limit	Margin
	(MHz)	(dBμV)		(dB}	(dB)	(dB)	(dBμV)	(dBμV)	(dB)

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

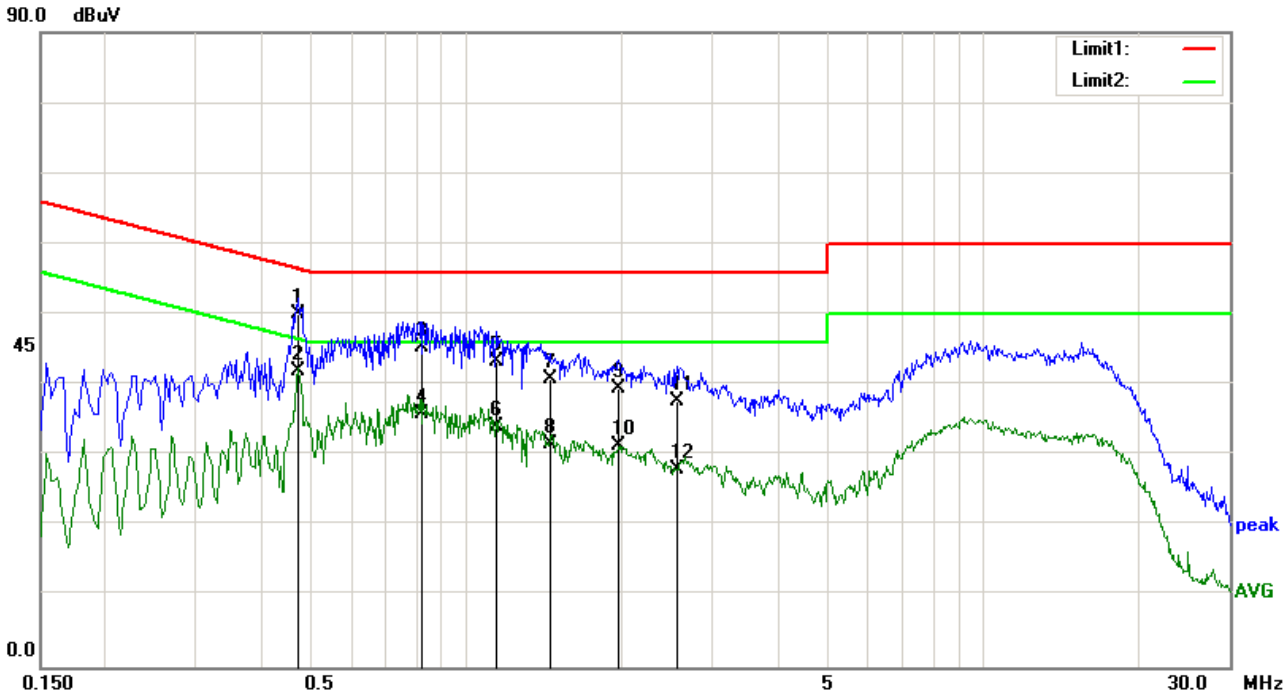
Result (dBμV) = Reading Value + Corrected Value

Limit (dBμV) = Limit stated in standard

Calculation Formula:

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

Test Mode :	Fully Load Working Mode

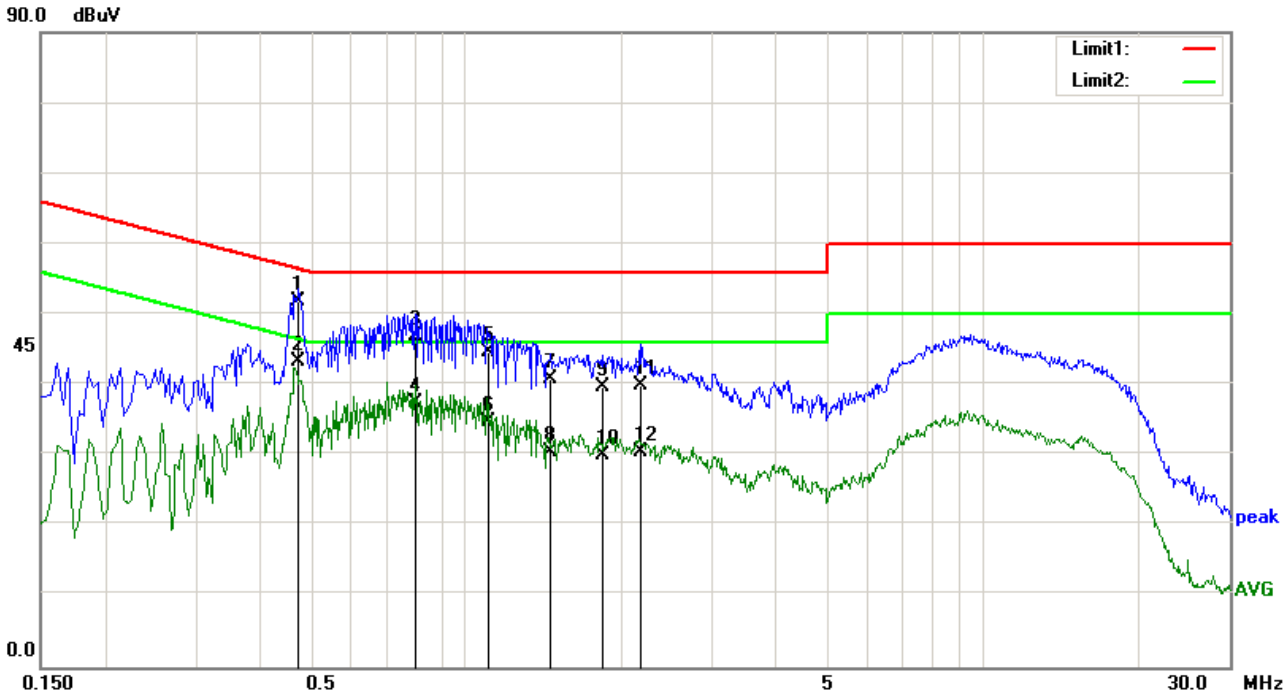


Test Data

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	0.4740	39.78	QP	0.12	-10.00	0.21	50.11	56.44	-6.33
2	0.4740	31.74	AVG	0.12	-10.00	0.21	42.07	46.44	-4.37
3	0.8220	34.95	QP	0.13	-10.00	0.20	45.28	56.00	-10.72
4	0.8220	25.66	AVG	0.13	-10.00	0.20	35.99	46.00	-10.01
5	1.1420	33.01	QP	0.14	-10.00	0.20	43.35	56.00	-12.65
6	1.1420	23.77	AVG	0.14	-10.00	0.20	34.11	46.00	-11.89
7	1.4500	30.59	QP	0.15	-10.00	0.20	40.94	56.00	-15.06
8	1.4500	21.34	AVG	0.15	-10.00	0.20	31.69	46.00	-14.31
9	1.9780	29.21	QP	0.16	-10.00	0.18	39.55	56.00	-16.45
10	1.9780	21.03	AVG	0.16	-10.00	0.18	31.37	46.00	-14.63
11	2.5540	27.30	QP	0.18	-10.00	0.23	37.71	56.00	-18.29
12	2.5540	17.52	AVG	0.18	-10.00	0.23	27.93	46.00	-18.07

Test Mode :	Fully Load Working Mode

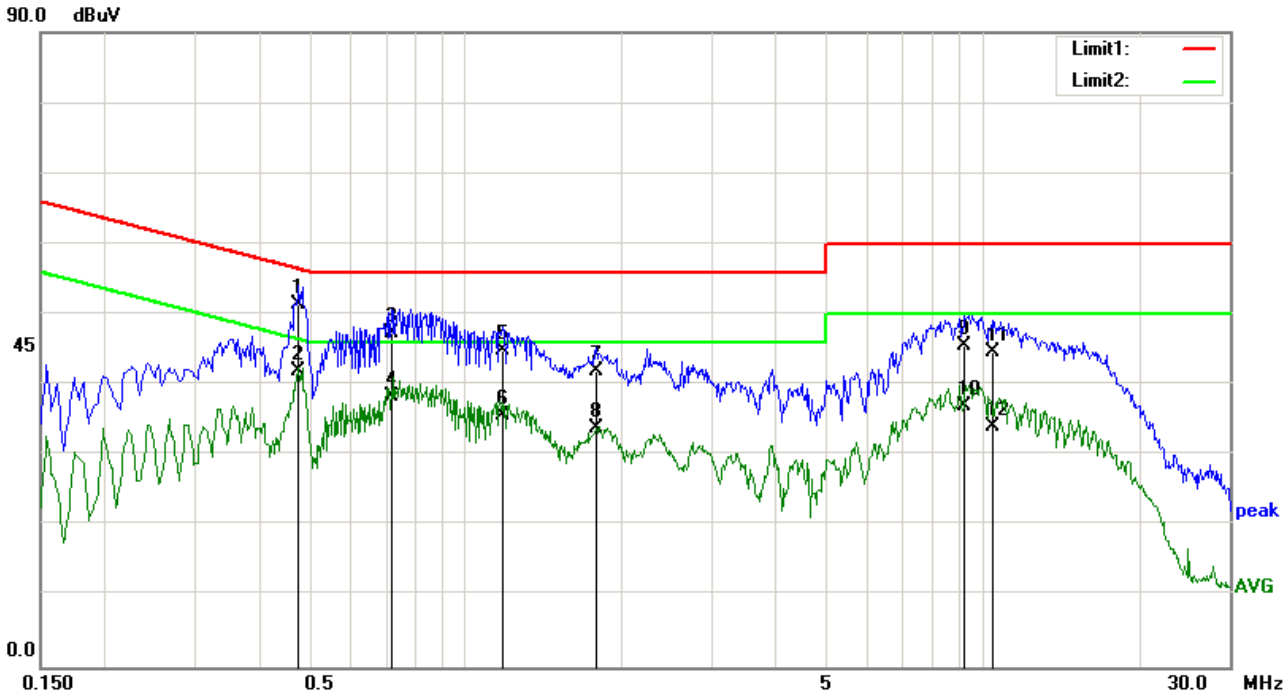


Test Data

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	41.54	QP	0.11	-10.00	0.21	51.86	56.44	-4.58
2	0.4740	32.93	AVG	0.11	-10.00	0.21	43.25	46.44	-3.19
3	0.7980	36.52	QP	0.12	-10.00	0.20	46.84	56.00	-9.16
4	0.7980	27.15	AVG	0.12	-10.00	0.20	37.47	46.00	-8.53
5	1.1100	34.38	QP	0.13	-10.00	0.20	44.71	56.00	-11.29
6	1.1100	24.39	AVG	0.13	-10.00	0.20	34.72	46.00	-11.28
7	1.4620	30.42	QP	0.15	-10.00	0.20	40.77	56.00	-15.23
8	1.4620	20.10	AVG	0.15	-10.00	0.20	30.45	46.00	-15.55
9	1.8340	29.39	QP	0.16	-10.00	0.20	39.75	56.00	-16.25
10	1.8340	19.71	AVG	0.16	-10.00	0.20	30.07	46.00	-15.93
11	2.1740	29.55	QP	0.18	-10.00	0.21	39.94	56.00	-16.06
12	2.1740	20.13	AVG	0.18	-10.00	0.21	30.52	46.00	-15.48

Test Mode :	Fully Load Working Mode

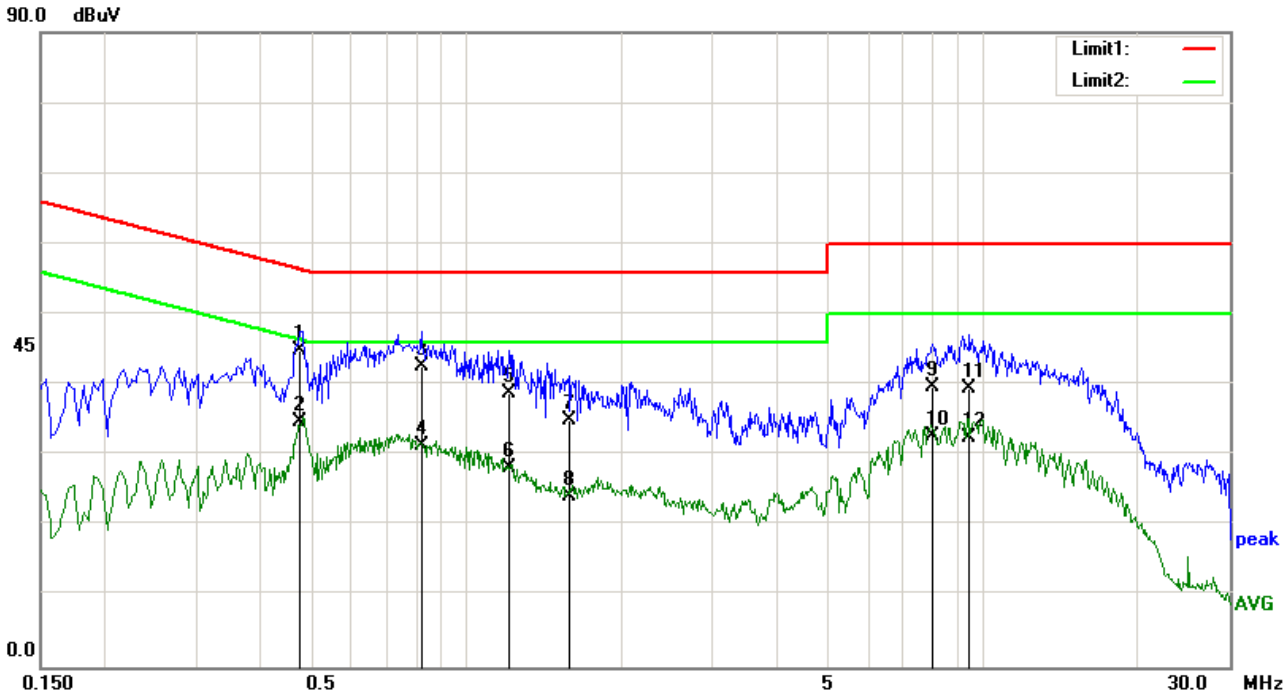


Test Data

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	0.4740	40.98	QP	0.12	-10.00	0.21	51.31	56.44	-5.13
2	0.4740	31.67	AVG	0.12	-10.00	0.21	42.00	46.44	-4.44
3	0.7180	36.94	QP	0.13	-10.00	0.20	47.27	56.00	-8.73
4	0.7180	27.93	AVG	0.13	-10.00	0.20	38.26	46.00	-7.74
5	1.1820	34.66	QP	0.14	-10.00	0.20	45.00	56.00	-11.00
6	1.1820	25.26	AVG	0.14	-10.00	0.20	35.60	46.00	-10.40
7	1.7900	31.63	QP	0.16	-10.00	0.21	42.00	56.00	-14.00
8	1.7900	23.40	AVG	0.16	-10.00	0.21	33.77	46.00	-12.23
9	9.2060	34.62	QP	0.46	-10.00	0.38	45.46	60.00	-14.54
10	9.2060	26.12	AVG	0.46	-10.00	0.38	36.96	50.00	-13.04
11	10.4700	33.73	QP	0.52	-10.00	0.50	44.75	60.00	-15.25
12	10.4700	23.11	AVG	0.52	-10.00	0.50	34.13	50.00	-15.87

Test Mode :	Fully Load Working Mode



Test Data

Phase Neutral Plot at 230Vac, 50Hz

No.	Frequency	Reading	Detector	Lisn/Isn	Ps_Lmt	Cab_L	Result	Limit	Margin
	(MHz)	(dBuV)		(dB}	(dB)	(dB)	(dBuV)	(dBuV)	(dB)
1	0.4780	34.56	QP	0.11	-10.00	0.21	44.88	56.37	-11.49
2	0.4780	24.38	AVG	0.11	-10.00	0.21	34.70	46.37	-11.67
3	0.8180	32.29	QP	0.12	-10.00	0.20	42.61	56.00	-13.39
4	0.8180	20.99	AVG	0.12	-10.00	0.20	31.31	46.00	-14.69
5	1.2140	28.45	QP	0.14	-10.00	0.21	38.80	56.00	-17.20
6	1.2140	17.93	AVG	0.14	-10.00	0.21	28.28	46.00	-17.72
7	1.5780	24.69	QP	0.15	-10.00	0.20	35.04	56.00	-20.96
8	1.5780	13.82	AVG	0.15	-10.00	0.20	24.17	46.00	-21.83
9	7.9980	28.98	QP	0.45	-10.00	0.36	39.79	60.00	-20.21
10	7.9980	21.98	AVG	0.45	-10.00	0.36	32.79	50.00	-17.21
11	9.4500	28.60	QP	0.51	-10.00	0.39	39.50	60.00	-20.50
12	9.4500	21.67	AVG	0.51	-10.00	0.39	32.57	50.00	-17.43

6.2 Radiated Emissions

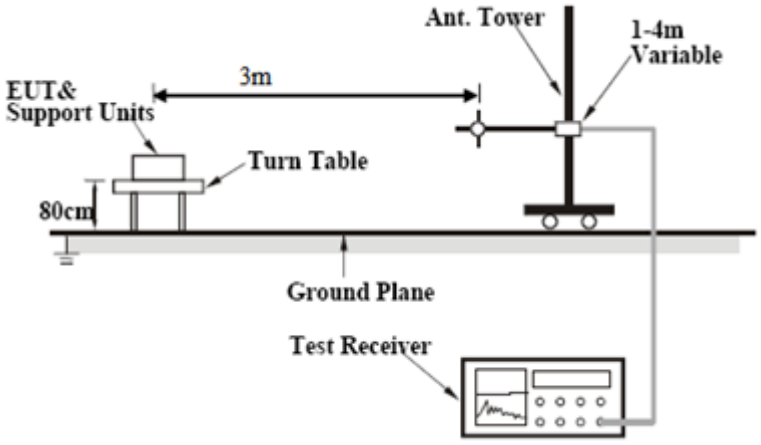
Temperature	24℃
Relative Humidity	56%
Atmospheric Pressure	1023mbar
Test date :	June 20, 2017
Tested By :	Trety Lu

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	100
88 – 216	150
216 960	200
Above 960	500

Test Setup



Procedure

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. 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:
   a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.
   b. The EUT was then rotated to the direction that gave the maximum emission.
   c. Finally, the antenna height was adjusted to the height that gave the maximum emission.
3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.
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%)
5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.

Remark

Result	☑ Pass ☐ Fail

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) = Read ing Value + Corrected Value

Limit (dBμV/m) = Limit stated in standard

Height (cm) = Height of Receiver antenna

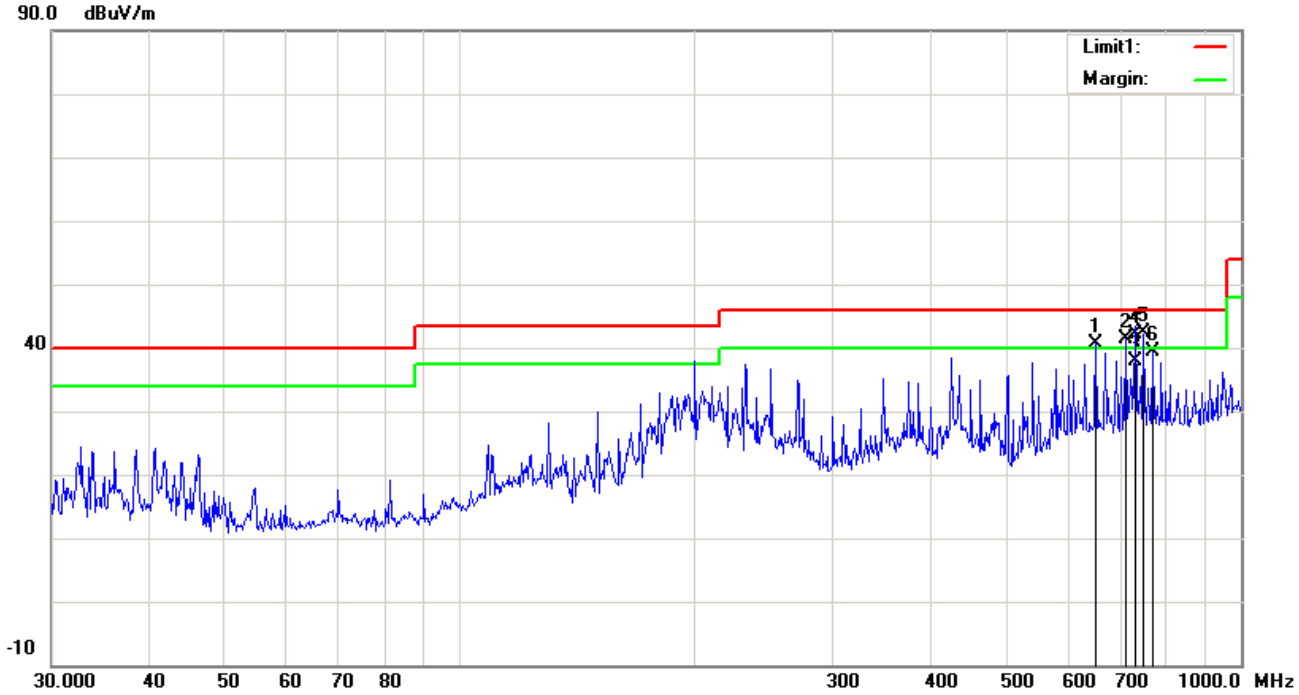
Degree = Turn table degree

Calculation Formula:

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

Test Mode :	Fully Load Working Mode

Below 1GHz



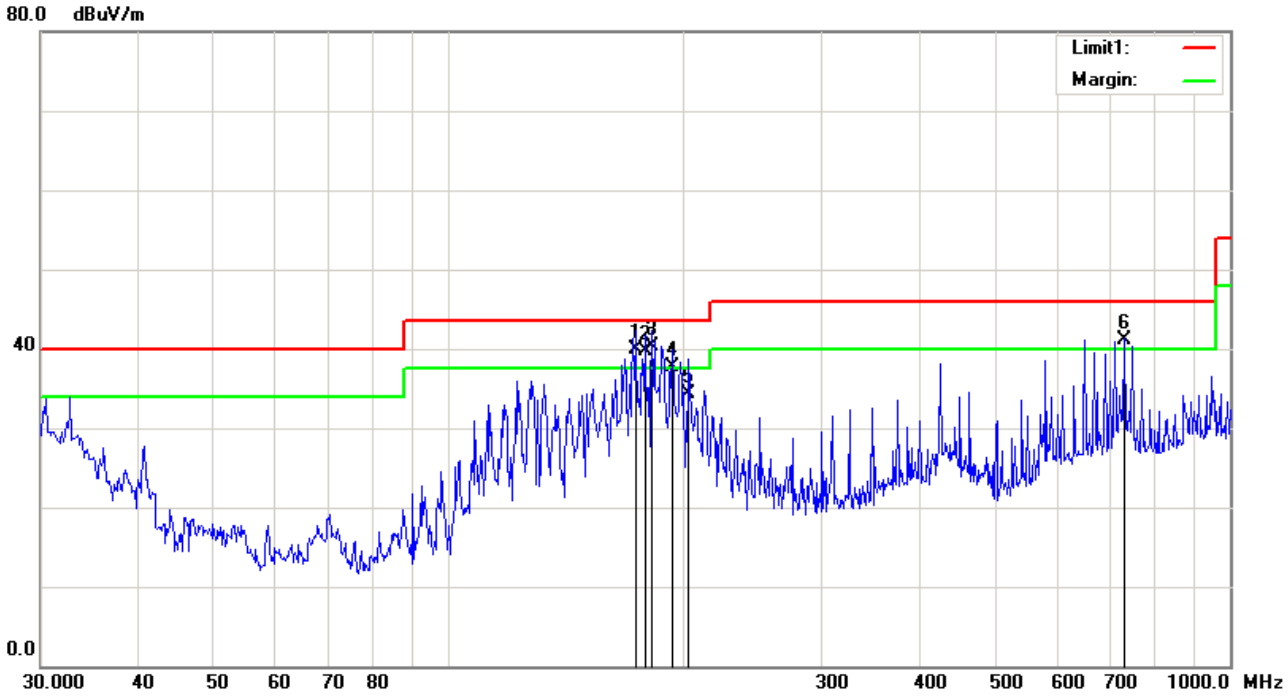
Test Data

Horizontal Polarity Plot @3m

No.	Frequency	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	651.9417	62.88	QP	21.85	48.15	4.10	40.68	46.00	-5.32	300	241
2	711.6734	60.12	QP	22.47	45.60	4.29	41.28	46.00	-4.72	200	186
3	731.9203	56.43	QP	22.59	45.38	4.34	37.98	46.00	-8.02	200	206
4	731.9203	60.64	QP	22.59	45.38	4.34	42.19	46.00	-3.81	200	206
5	750.1083	60.34	QP	22.70	45.02	4.40	42.42	46.00	-3.58	200	221
6	771.4486	57.81	peak	22.83	45.62	4.46	39.48	46.00	-6.52	200	214

Test Mode :	Fully Load Working Mode

Below 1GHz



Test Data

Vertical Polarity Plot @3m

No.	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	173.2051	70.47	QP	13.73	46.43	2.12	39.89	43.50	-3.61	100	215
2	178.1327	71.21	QP	12.69	46.34	2.15	39.71	43.50	-3.79	100	216
3	181.9202	72.13	QP	12.33	46.38	2.17	40.25	43.50	-3.25	100	227
4	193.0945	69.10	QP	13.20	46.90	2.23	37.63	43.50	-5.87	100	214
5	202.8104	64.66	QP	14.85	47.41	2.27	34.37	43.50	-9.13	100	215
6	731.9203	59.98	QP	22.26	45.38	4.34	41.20	46.00	-4.80	100	318

Test Mode :	Fully Load Working Mode

Above 1GHz

Vertical

No.	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	4911.000	59.51	peak	33.43	53.81	5.96	45.09	74	-28.91	200	170
2	6120.000	55.63	peak	35.21	54.00	6.11	42.95	74	-31.05	100	310
3	8631.000	55.91	peak	37.35	54.02	8.29	47.53	74	-26.47	100	298
4	10774.000	54.84	peak	38.05	53.14	9.43	49.18	74	-24.82	100	106
5	13187.000	54.36	peak	39.13	51.88	9.56	51.17	74	-22.83	200	114
6	14716.000	55.29	peak	40.34	52.74	9.36	52.25	74	-21.75	200	9

Horizontal

No.	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	4960.000	62.1	peak	33.58	54.04	5.88	47.52	74	-26.48	154	360
2	6303.000	55.71	peak	34.32	52.22	5.84	43.65	74	-30.35	200	2
3	8580.000	54.47	peak	37.37	53.91	8.33	46.26	74	-27.74	154	360
4	10755.000	54.23	peak	38.05	53.13	9.43	48.58	74	-25.42	100	30
5	11456.000	54.45	peak	38.37	53.15	10.05	49.72	74	-24.28	200	256
6	13902.000	54.41	peak	39.98	52.11	9.11	51.39	74	-22.61	100	282

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	☒
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

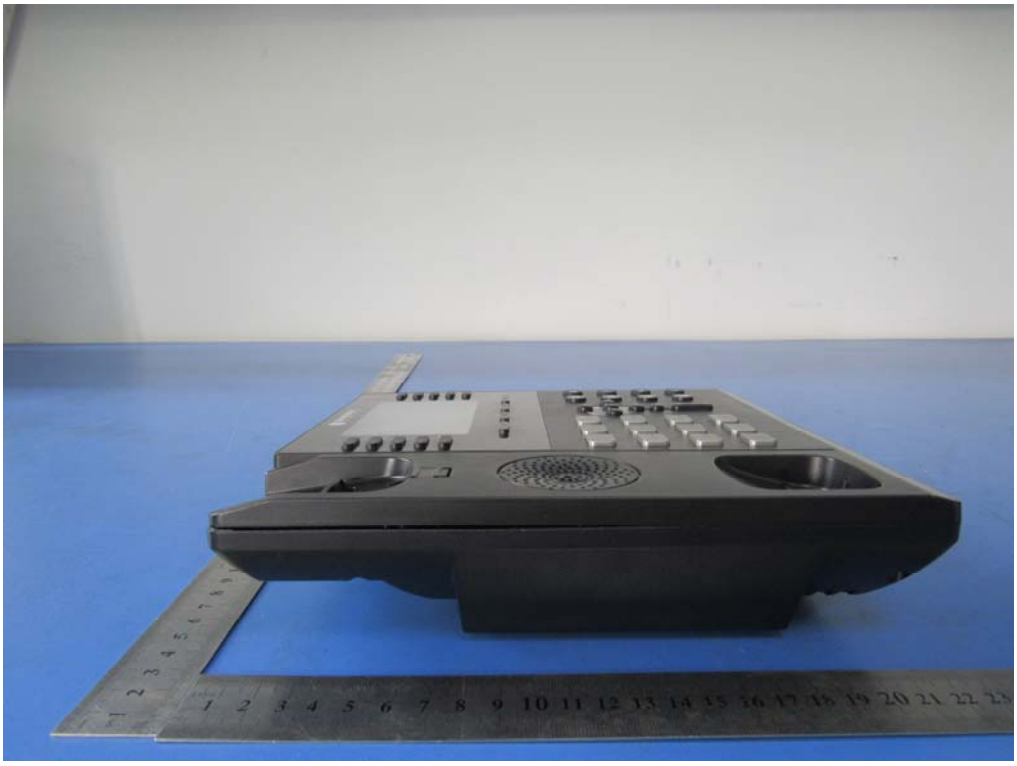
Adapter – Right View

EUT - Top View

EUT - Bottom View

EUT - Front View

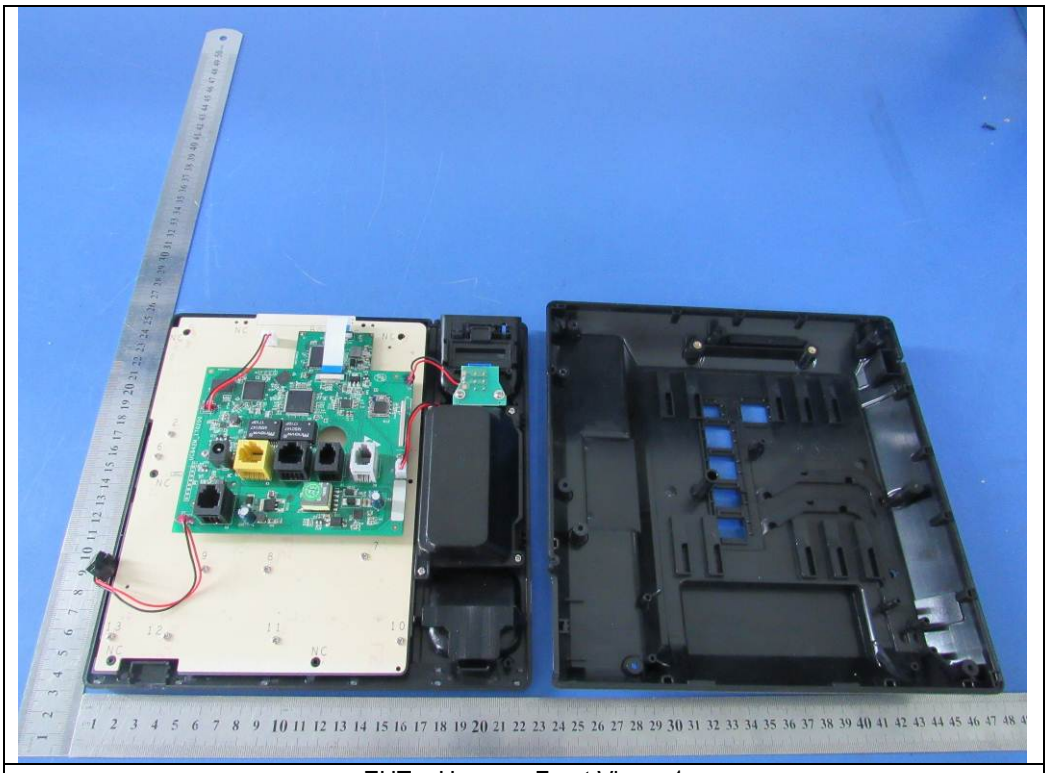
EUT - Rear View



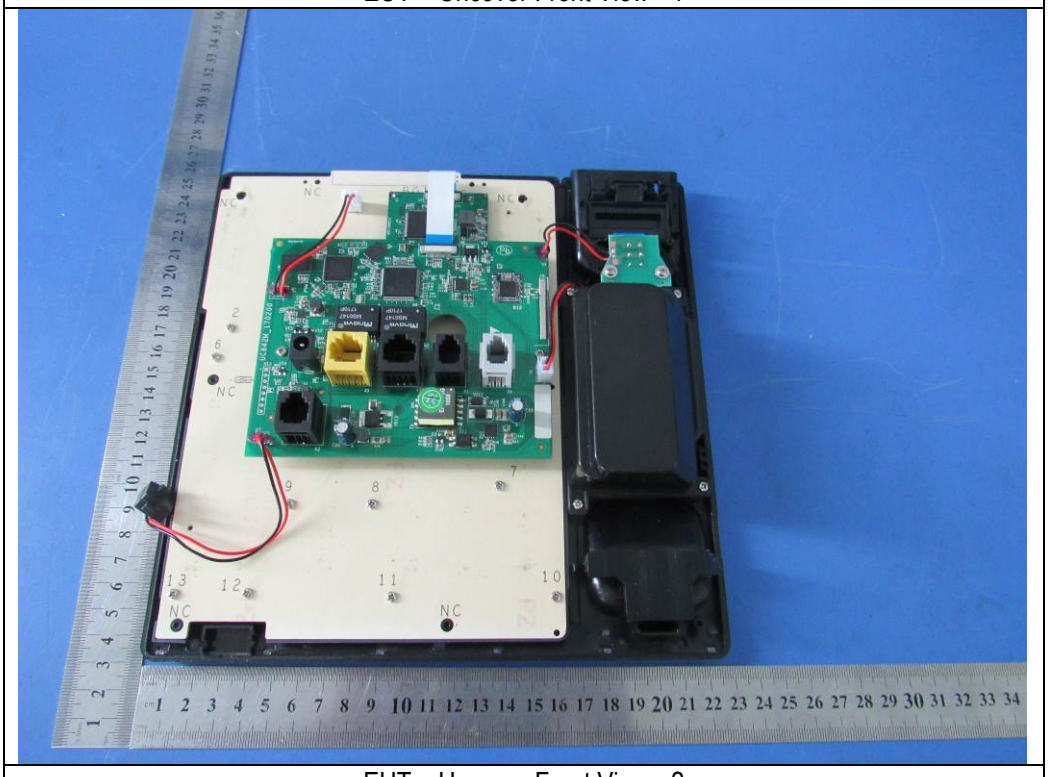
EUT - Left View

EUT - Right View

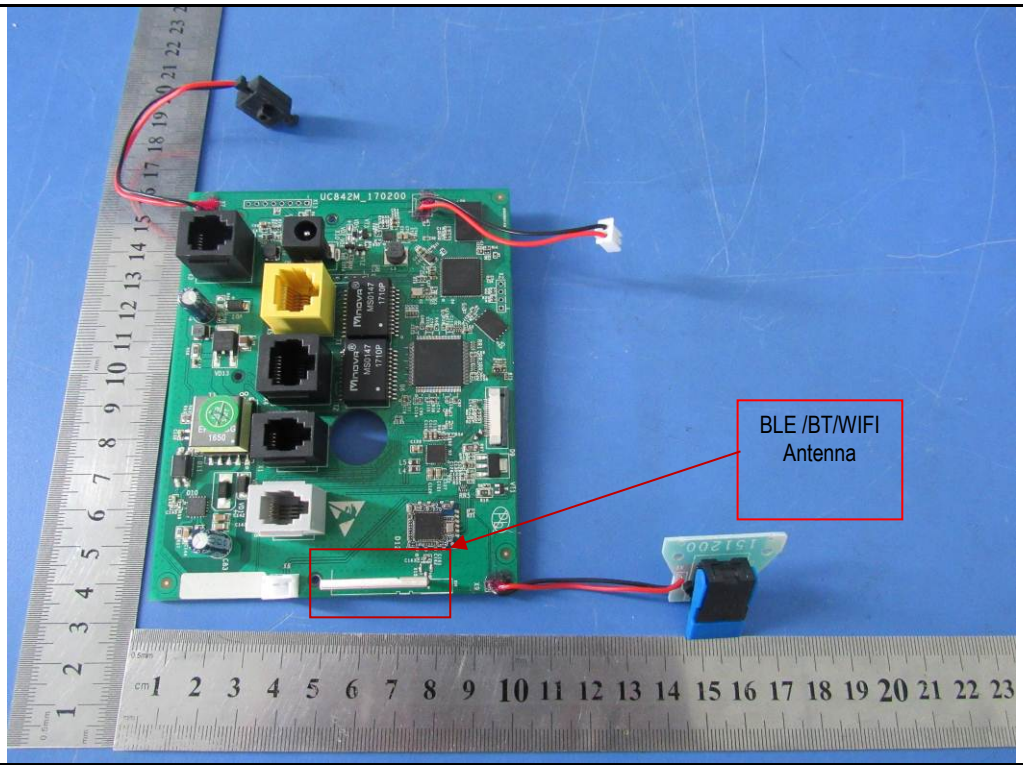
Annex B.ii. Photograph: EUT Internal Photo



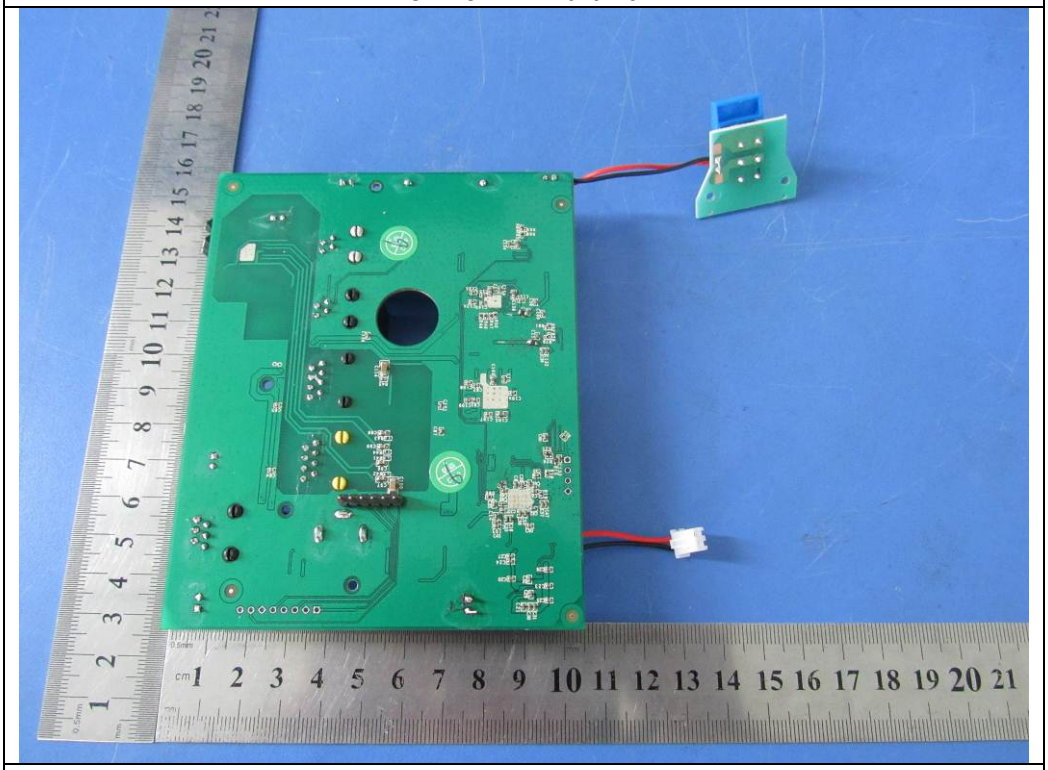
EUT – Uncover Front View - 1



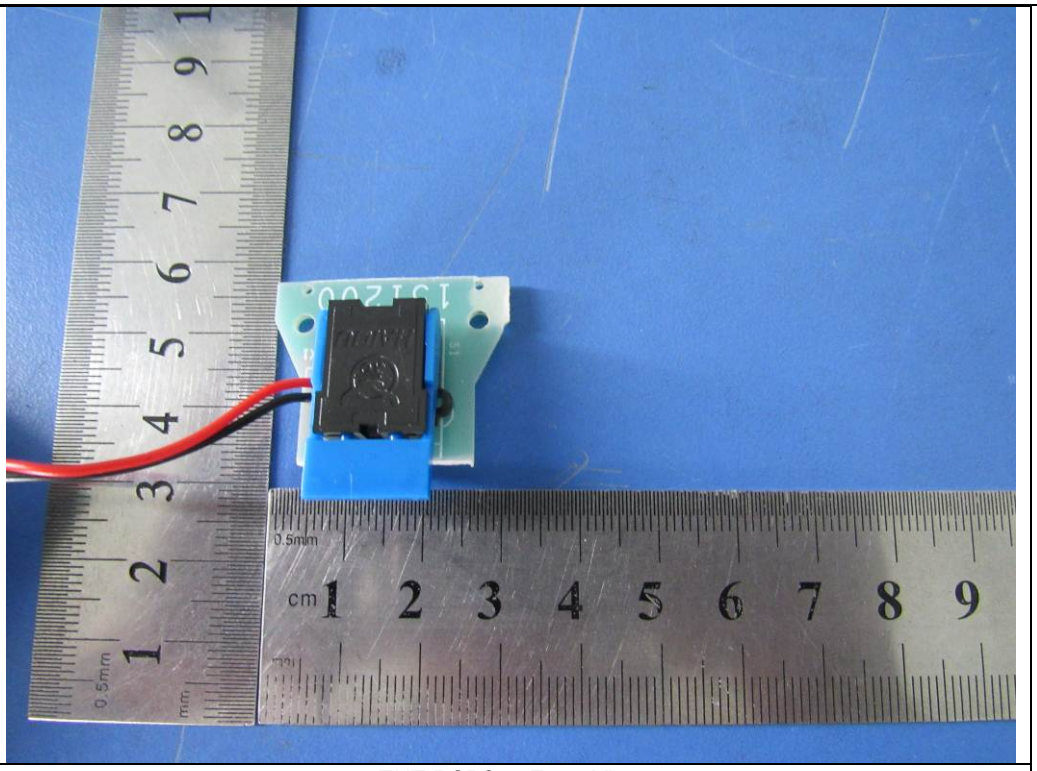
EUT – Uncover Front View - 2



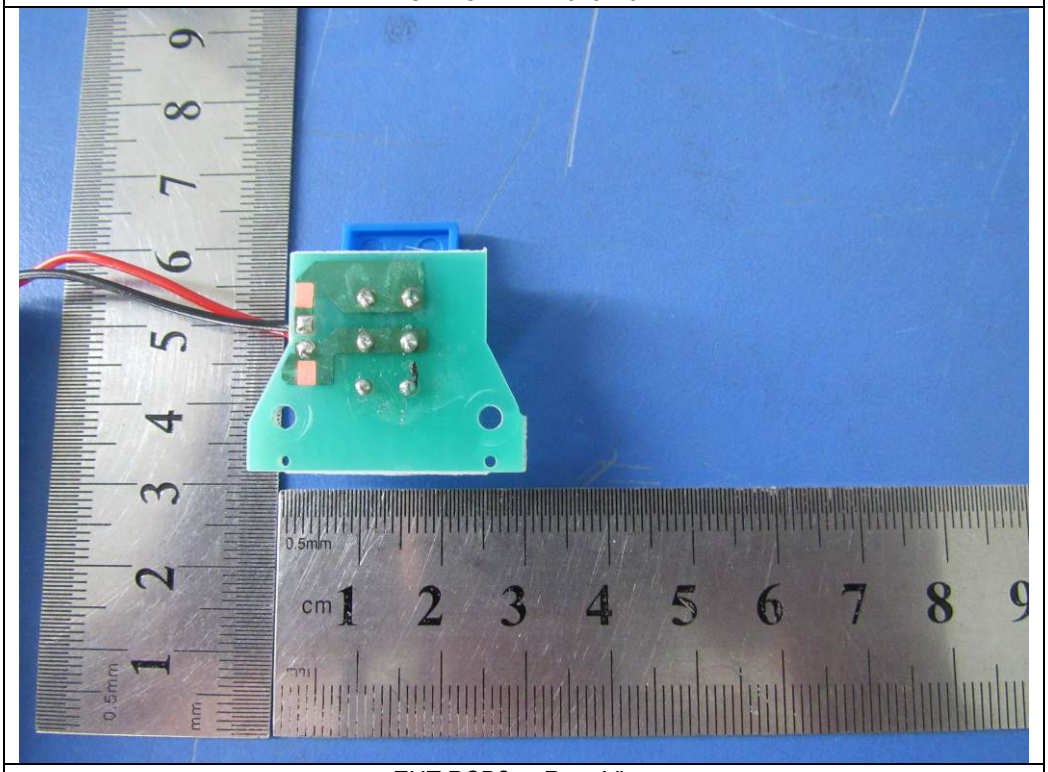
EUT PCB1 – Front View



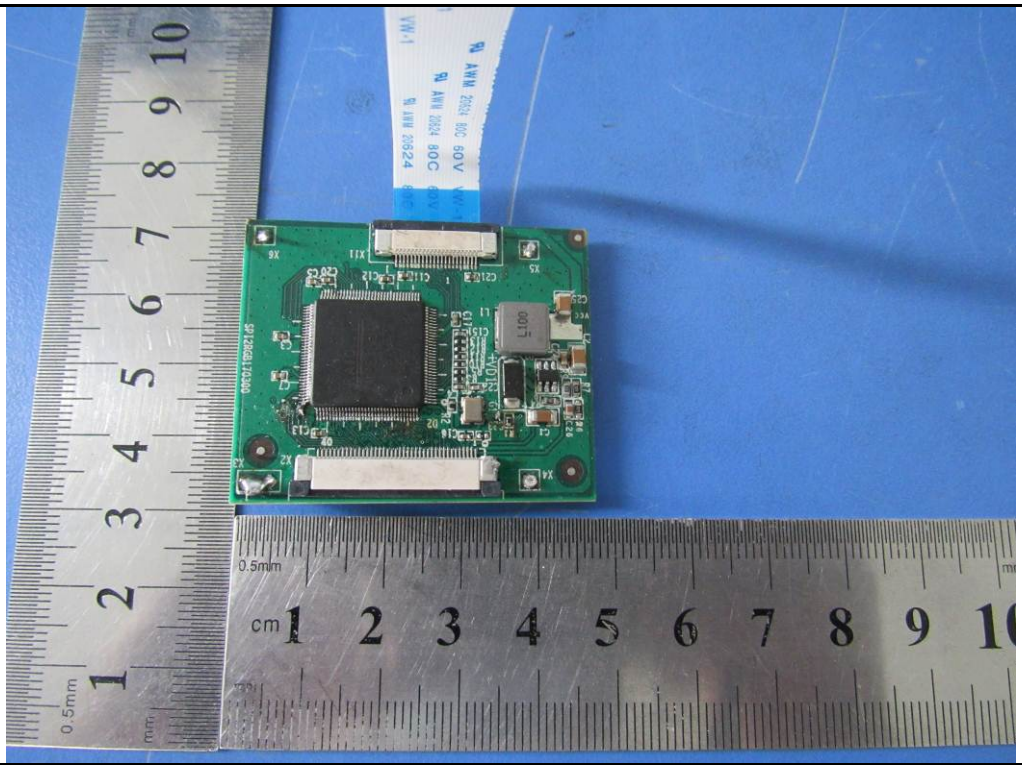
EUT PCB1 – Rear View



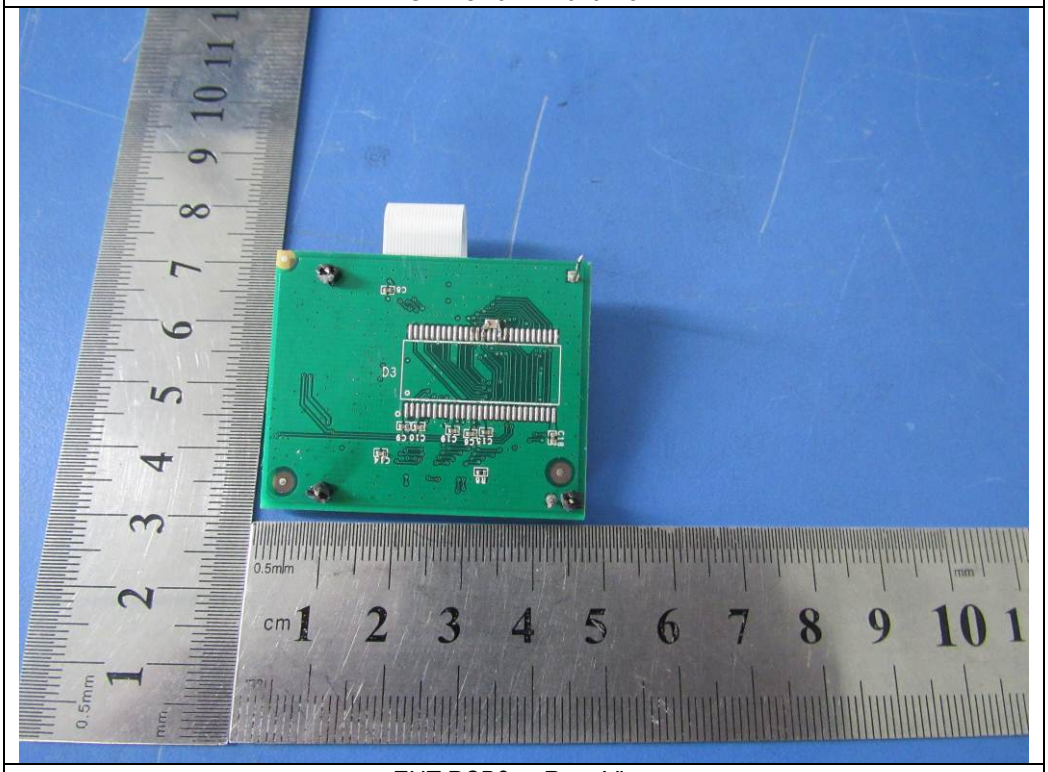
EUT PCB2 – Front View



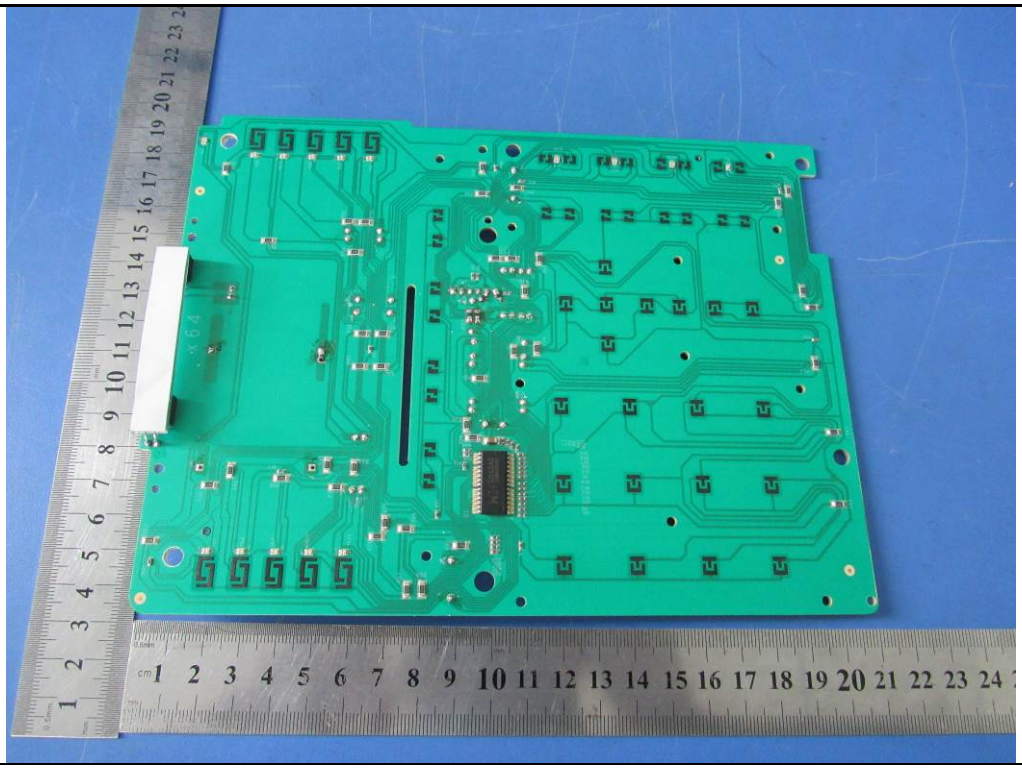
EUT PCB2 – Rear View



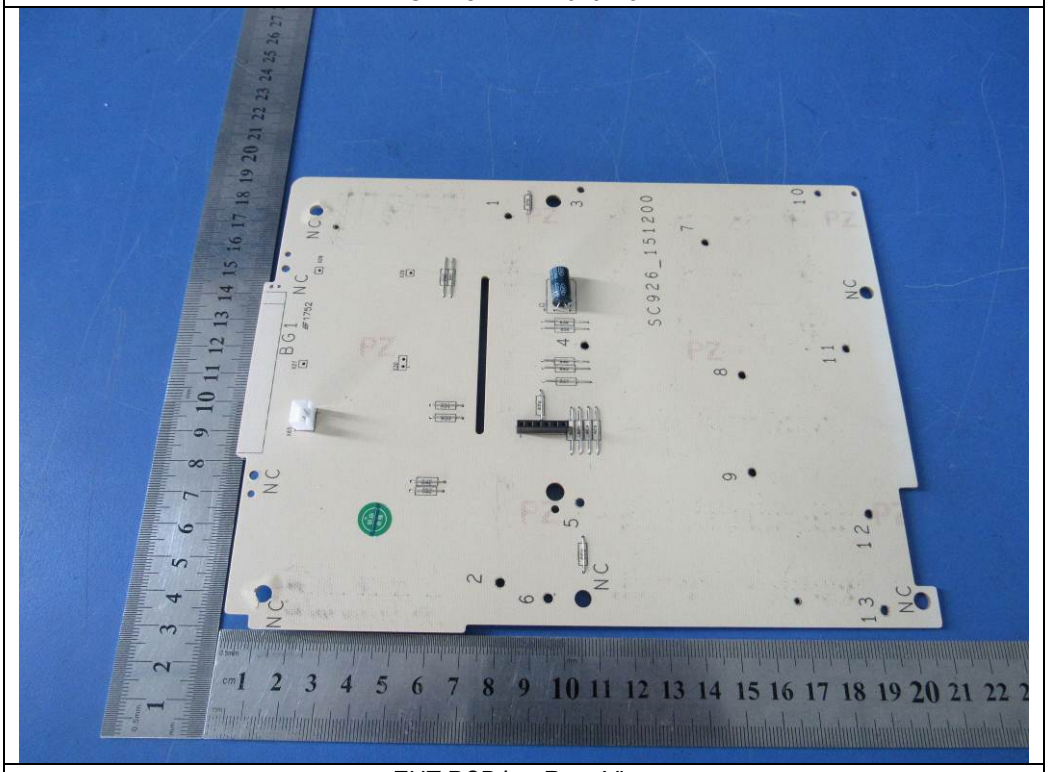
EUT PCB3 – Front View



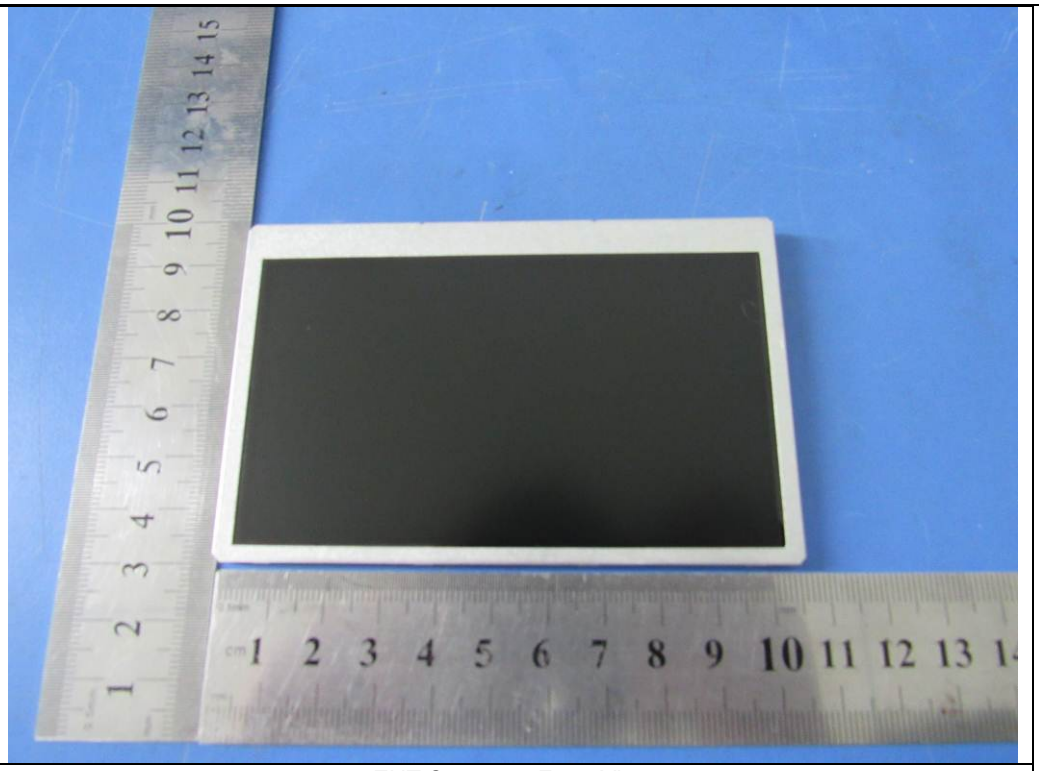
EUT PCB3 – Rear View



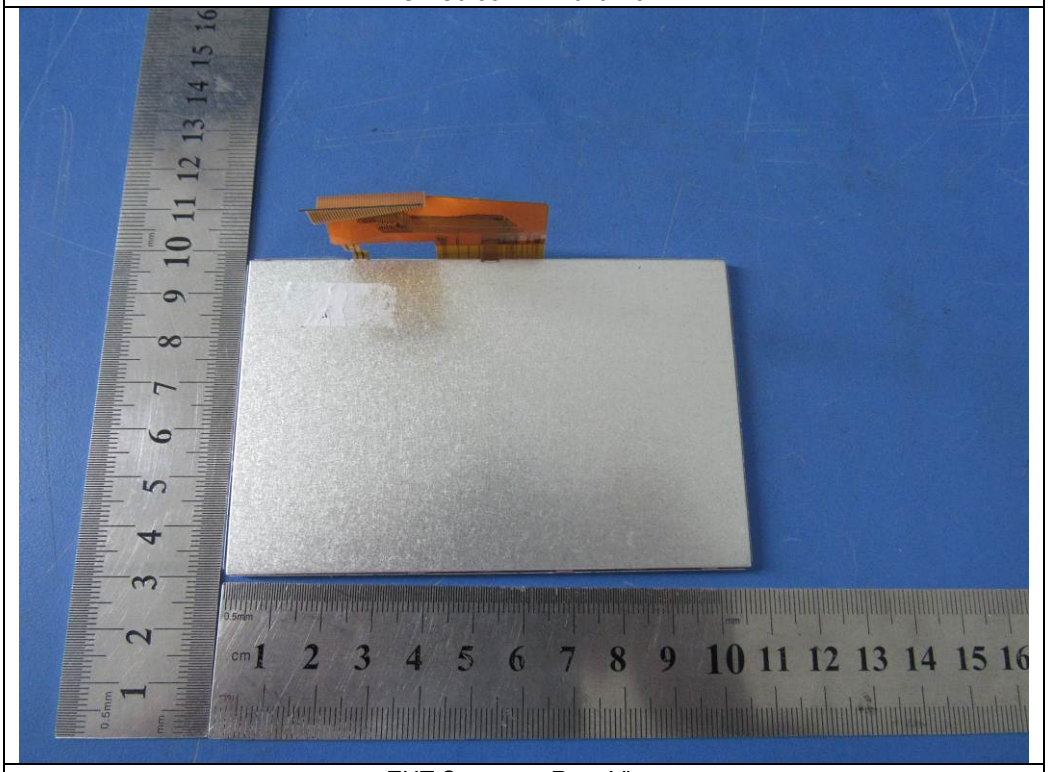
EUT PCB4 – Front View



EUT PCB4 – Rear View



EUT Screen – Front View

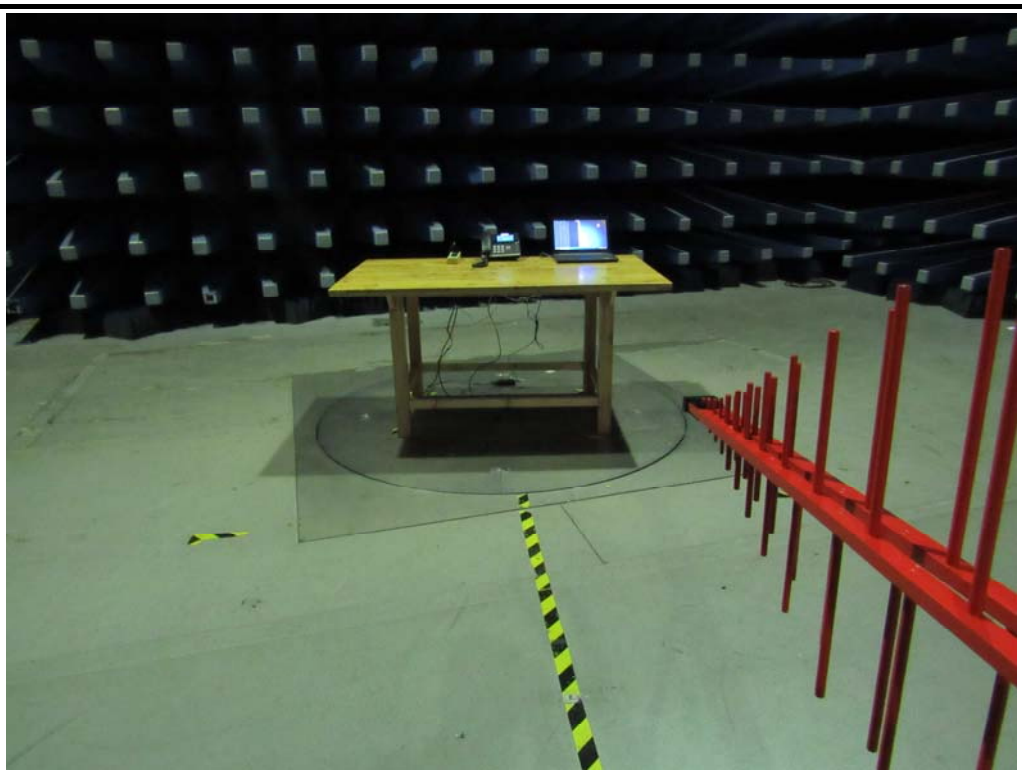


EUT Screen – Rear View

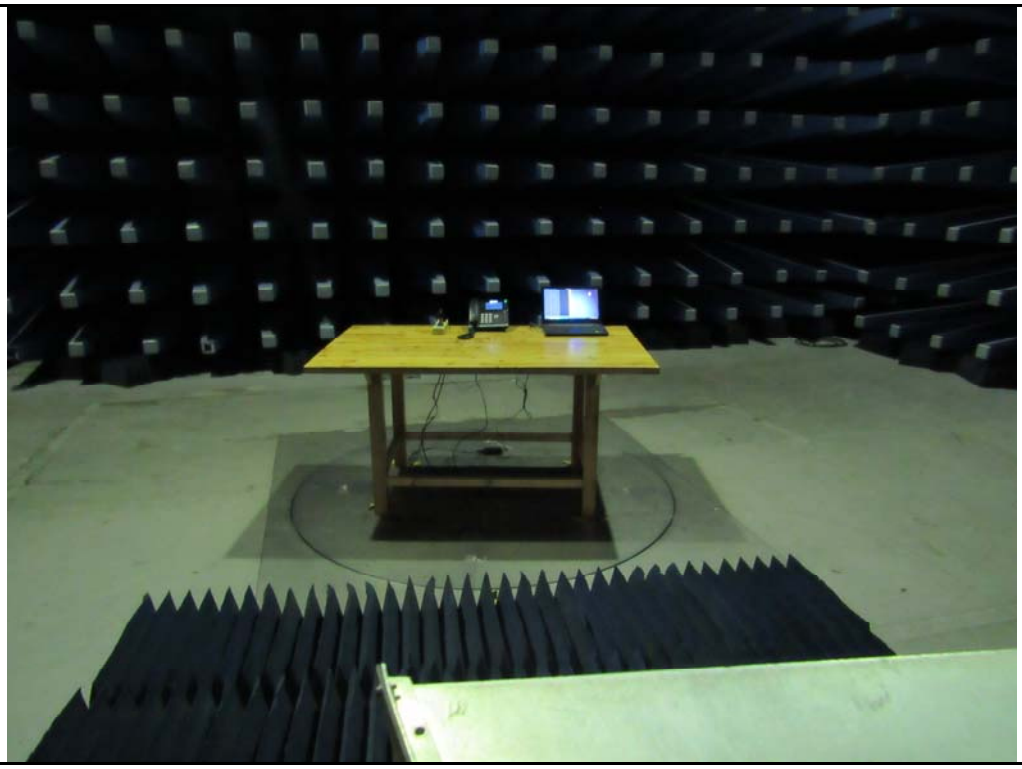
Annex B.iii. Photograph: Test Setup Photo

Conducted Emissions Test Setup Front View

Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz

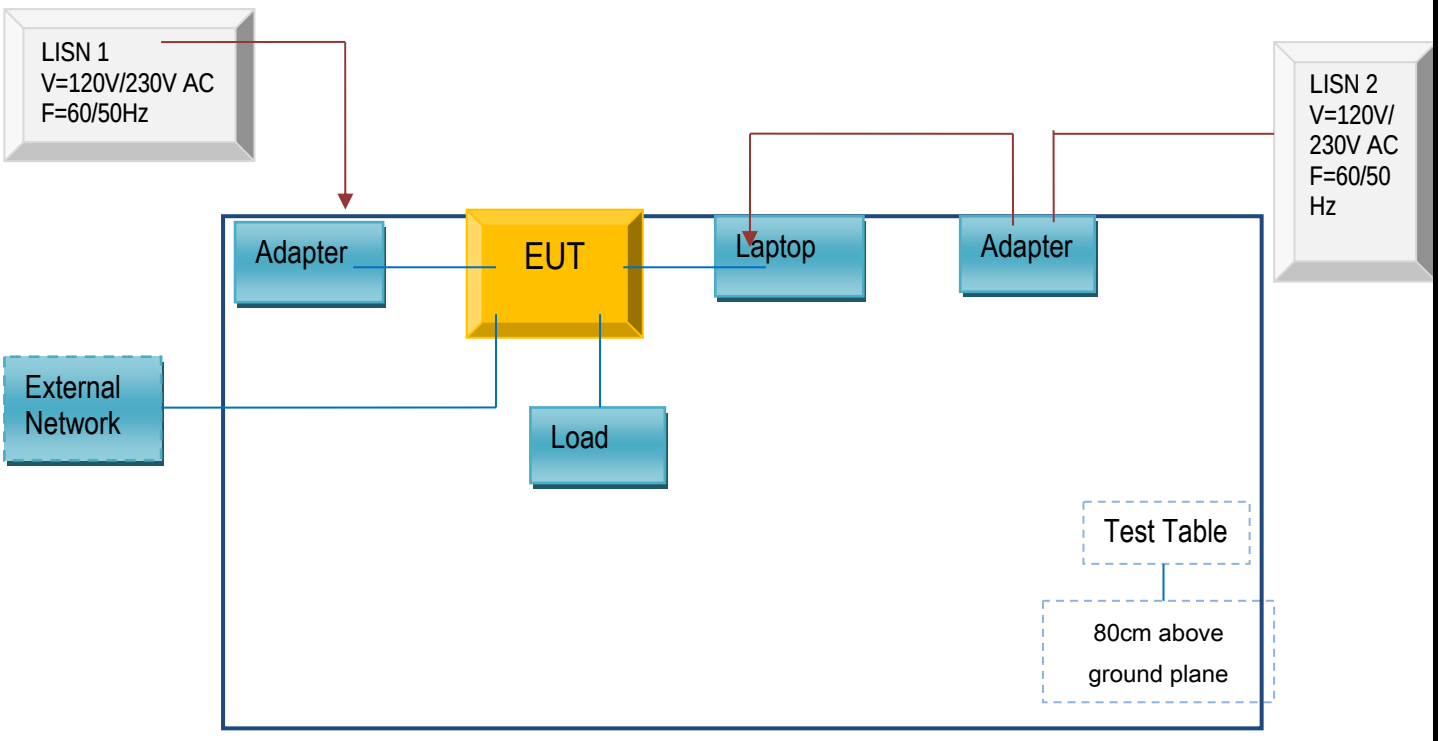


Radiated Spurious Emissions Test Setup Above 1GHz

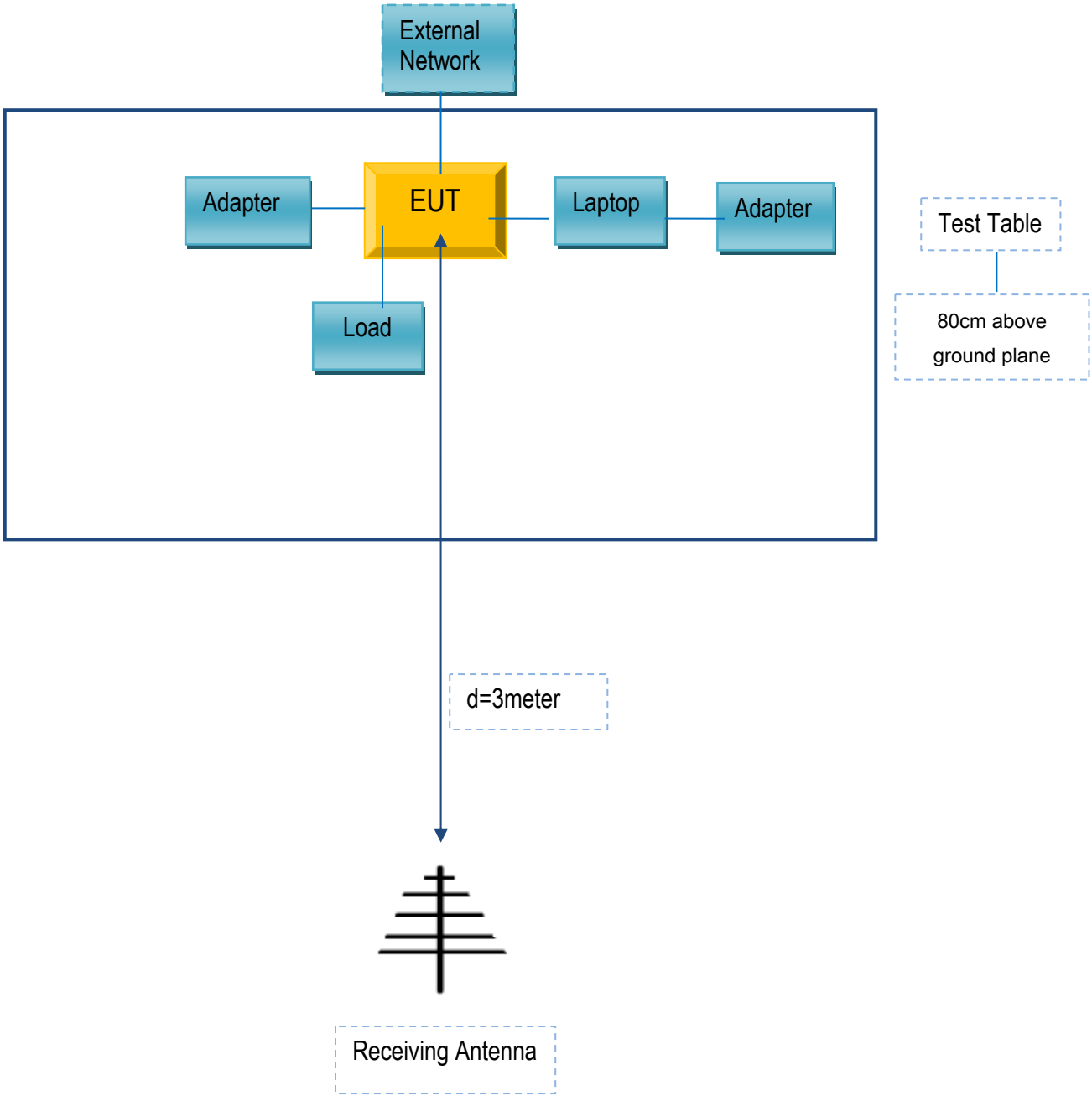
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

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

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

See attachment

Annex E. DECLARATION OF SIMILARITY

Sangoma Technologies Corp.

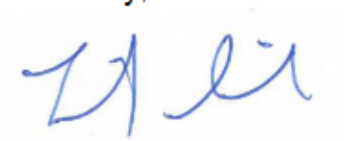
Statement

Model number: S705, S505

FCC ID: 2AL9Y-PHONS705A

We hereby state that S705,S505 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,



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