EMC TEST REPORT

Report No.: 18020209-FCC-E
Supersede Report No.: N/A

Applicant	YMAX Communications Corp.
Product Name	magicJack
Main Model	K1103R3
Test Standard	FCC Part 15 Subpart B Class B:2017, ANSI C63.4: 2014
Test Date	February 11 to February 23, 2018
Issue Date	February 23, 2018
Test Result	☑ **Pass** ☐ **Fail**
Equipment complied with the specification	☑
Equipment did not comply with the specification	☐

Louise Tu	Deon Dai	
Louise Tu **Test Engineer**	**Deon Dai** **Engineer Reviewer**	

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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

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
18020209-FCC-E	NONE	Original	February 23, 2018

2. Customer information

Applicant Name	YMAX Communications Corp.
Applicant Add	5700 Georgia Avenue, West Palm Beach, Florida, USA
Manufacturer	YMAX Communications Corp.
Manufacturer Add	5700 Georgia Avenue, West Palm Beach, Florida, USA

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.	694825
IC Test Site No.	4842B-1
Test Software	EZ_EMC

4. Equipment under Test (EUT) Information

Description of EUT:	magicJack
Main Model:	K1103R3
Serial Model:	N/A
Date EUT received:	February 8, 2018
Test Date(s):	February 11 to February 23, 2018
Power:	Input:100-240VAC 50/60Hz 0.2A Output:5V 1A
Freq:	24MHz
Port:	USB Port、RJ45 Port、RJ11 Port
Trade Name:	N/A
FCC ID:	Y79K1103

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	Conducted Emissions	Compliance
§15.109; ANSI C63.4: 2014	Radiated Emissions	Compliance

Measurement Uncertainty

Test Item	Description	Uncertainty
Radiated 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)	3.952dB

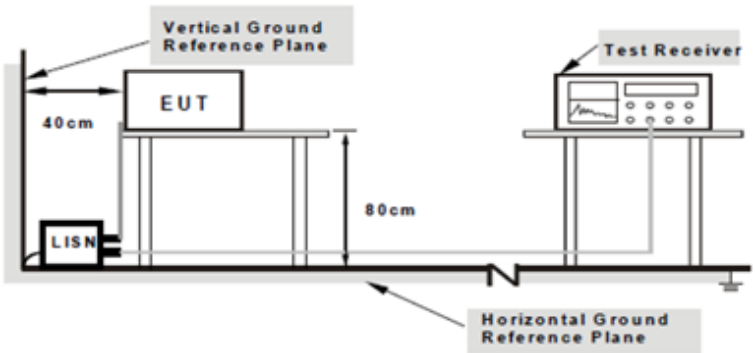
6. Measurements, Examination And Derived Results

6.1 Conducted Emissions

Temperature	23°C
Relative Humidity	51%
Atmospheric Pressure	1022mbar
Test date :	February 11 to February 14, 2018
Tested By :	Louise Tu

Requirement(s):

<table>
<tr><th>Spec</th><th>Requirement</th><th>Applicable</th></tr>
<tr><td>47CFR §15.107</td><td>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.

Class A Limit
<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>79</td><td>66</td></tr>
<tr><td>0.5 ~ 30</td><td>73</td><td>60</td></tr>
</table>
Class B Limit
<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>
</td><td>☒</td></tr>
<tr><td>Test Setup</td><td> 

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.</td><td></td></tr>
<tr><td>Procedure</td><td>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 50 [mu]H/50 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, were then selected, The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10kHz.
8. Steps 6-7 were repeated for the LIVE line (for AC mains) or DC line (for DC power).</td><td></td></tr>
<tr><td>Remark</td><td></td><td></td></tr>
</table>

Result	☑ Yes ☐ 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

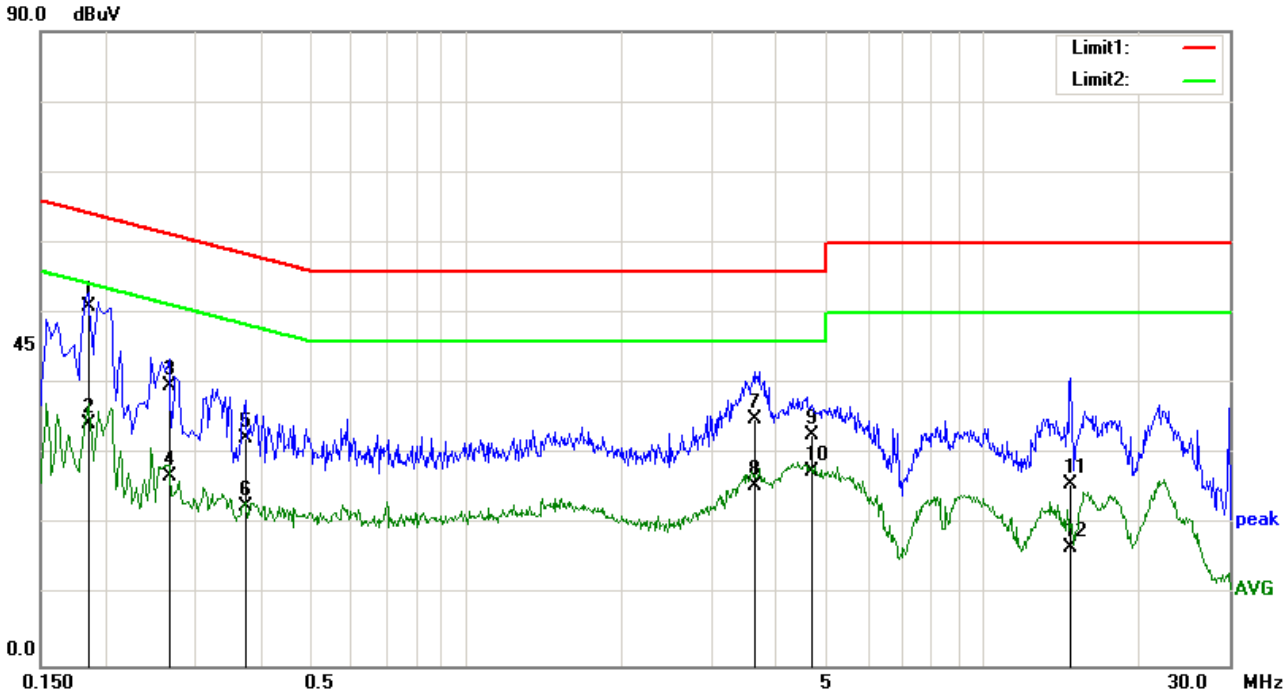
Result (dBμV) = Reading Value + Corrected Value

Limit (dBμV) = Limit stated in standard

Calculation Formula:

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

Test Mode:	Normal Working (Notebook)

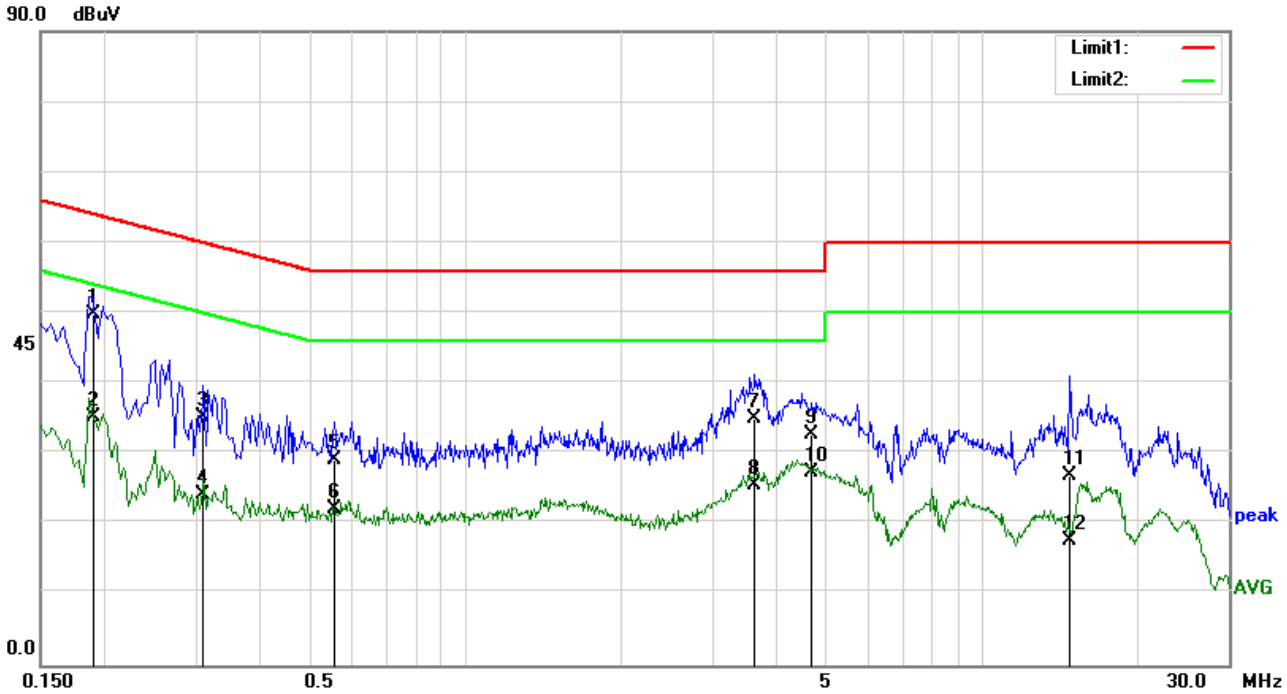


Phase Line Plot at 120V AC, 60Hz

No.	Frequency (MHz)	Reading (dBμV)	Detector	Lisn/Isn (dB}	Ps_Lmt (dB)	Cab_L (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)
1	0.1860	40.50	QP	0.10	-10.00	0.30	50.90	64.21	-13.31
2	0.1860	23.81	AVG	0.10	-10.00	0.30	34.21	54.21	-20.00
3	0.2660	29.37	QP	0.10	-10.00	0.20	39.67	61.24	-21.57
4	0.2660	16.55	AVG	0.10	-10.00	0.20	26.85	51.24	-24.39
5	0.3740	21.96	QP	0.11	-10.00	0.20	32.27	58.41	-26.14
6	0.3740	12.27	AVG	0.11	-10.00	0.20	22.58	48.41	-25.83
7	3.6100	24.53	QP	0.22	-10.00	0.25	35.00	56.00	-21.00
8	3.6100	15.07	AVG	0.22	-10.00	0.25	25.54	46.00	-20.46
9	4.6740	22.16	QP	0.26	-10.00	0.28	32.70	56.00	-23.30
10	4.6740	16.94	AVG	0.26	-10.00	0.28	27.48	46.00	-18.52
11	14.8180	14.46	QP	0.85	-10.00	0.47	25.78	60.00	-34.22
12	14.8180	5.41	AVG	0.85	-10.00	0.47	16.73	50.00	-33.27

Note: The highest frequency of the internal sources of the EUT is less than 108MHz, so the measurement shall only be made up to 1GHz.

Test Mode:	Normal Working (Notebook)

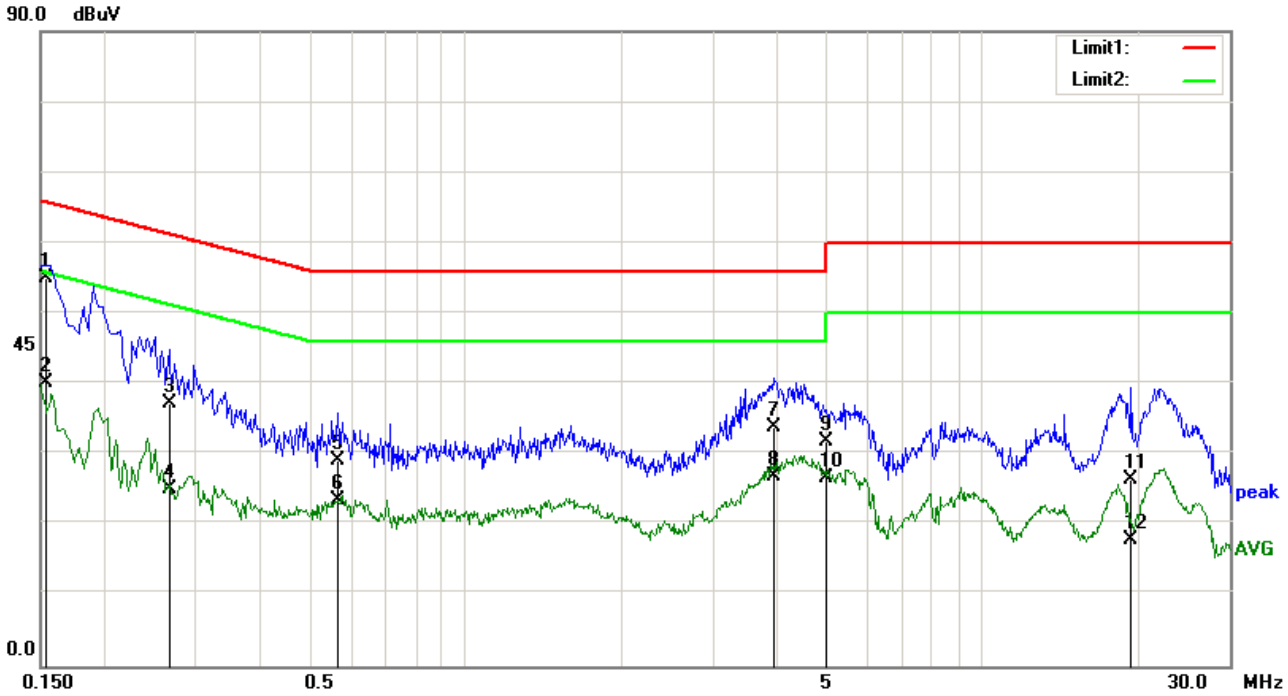


Phase Neutral Plot at 120V AC, 60Hz

No.	Frequency (MHz)	Reading (dBμV)	Detector	Lisn/Isn (dB}	Ps_Lmt (dB)	Cab_L (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)
1	0.1900	39.36	QP	0.10	-10.00	0.30	49.76	64.04	-14.28
2	0.1900	24.77	AVG	0.10	-10.00	0.30	35.17	54.04	-18.87
3	0.3100	24.90	QP	0.10	-10.00	0.20	35.20	59.97	-24.77
4	0.3100	13.91	AVG	0.10	-10.00	0.20	24.21	49.97	-25.76
5	0.5580	18.84	QP	0.11	-10.00	0.21	29.16	56.00	-26.84
6	0.5580	11.93	AVG	0.11	-10.00	0.21	22.25	46.00	-23.75
7	3.6380	24.46	QP	0.23	-10.00	0.25	34.94	56.00	-21.06
8	3.6380	15.05	AVG	0.23	-10.00	0.25	25.53	46.00	-20.47
9	4.6780	22.26	QP	0.27	-10.00	0.28	32.81	56.00	-23.19
10	4.6780	16.88	AVG	0.27	-10.00	0.28	27.43	46.00	-18.57
11	14.7500	15.60	QP	0.93	-10.00	0.47	27.00	60.00	-33.00
12	14.7500	6.23	AVG	0.93	-10.00	0.47	17.63	50.00	-32.37

Note: The highest frequency of the internal sources of the EUT is less than 108MHz, so the measurement shall only be made up to 1GHz.

Test Mode:	Normal Working (Notebook)

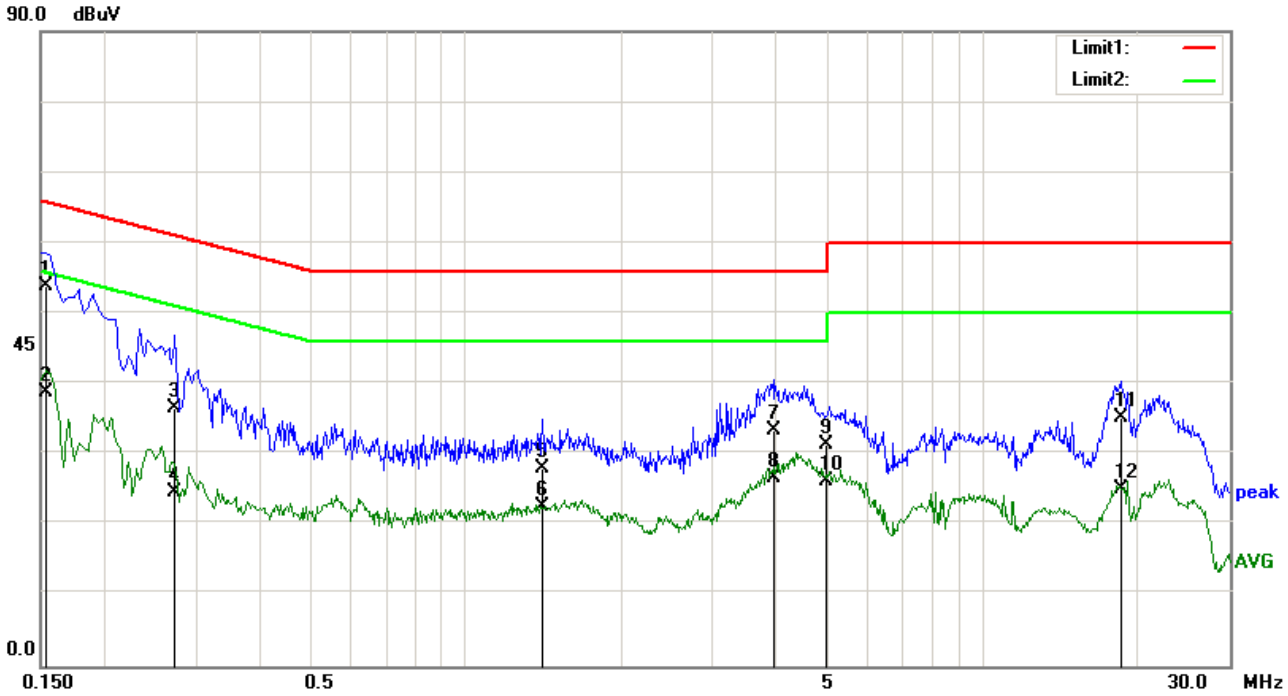


Phase Line Plot at 240V AC, 50Hz

No.	Frequency (MHz)	Reading (dBμV)	Detector	Lisn/Isn (dB}	Ps_Lmt (dB)	Cab_L (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)
1	0.1540	44.48	QP	0.10	-10.00	0.35	54.93	65.78	-10.85
2	0.1540	29.74	AVG	0.10	-10.00	0.35	40.19	55.78	-15.59
3	0.2660	26.87	QP	0.10	-10.00	0.20	37.17	61.24	-24.07
4	0.2660	14.87	AVG	0.10	-10.00	0.20	25.17	51.24	-26.07
5	0.5660	18.71	QP	0.12	-10.00	0.21	29.04	56.00	-26.96
6	0.5660	13.14	AVG	0.12	-10.00	0.21	23.47	46.00	-22.53
7	3.9300	23.43	QP	0.23	-10.00	0.26	33.92	56.00	-22.08
8	3.9300	16.51	AVG	0.23	-10.00	0.26	27.00	46.00	-19.00
9	4.9940	21.36	QP	0.27	-10.00	0.30	31.93	56.00	-24.07
10	4.9940	16.15	AVG	0.27	-10.00	0.30	26.72	46.00	-19.28
11	19.4260	14.92	QP	1.05	-10.00	0.57	26.54	60.00	-33.46
12	19.4260	6.17	AVG	1.05	-10.00	0.57	17.79	50.00	-32.21

Note: The highest frequency of the internal sources of the EUT is less than 108MHz, so the measurement shall only be made up to 1GHz.

Test Mode:	Normal Working(Notebook)

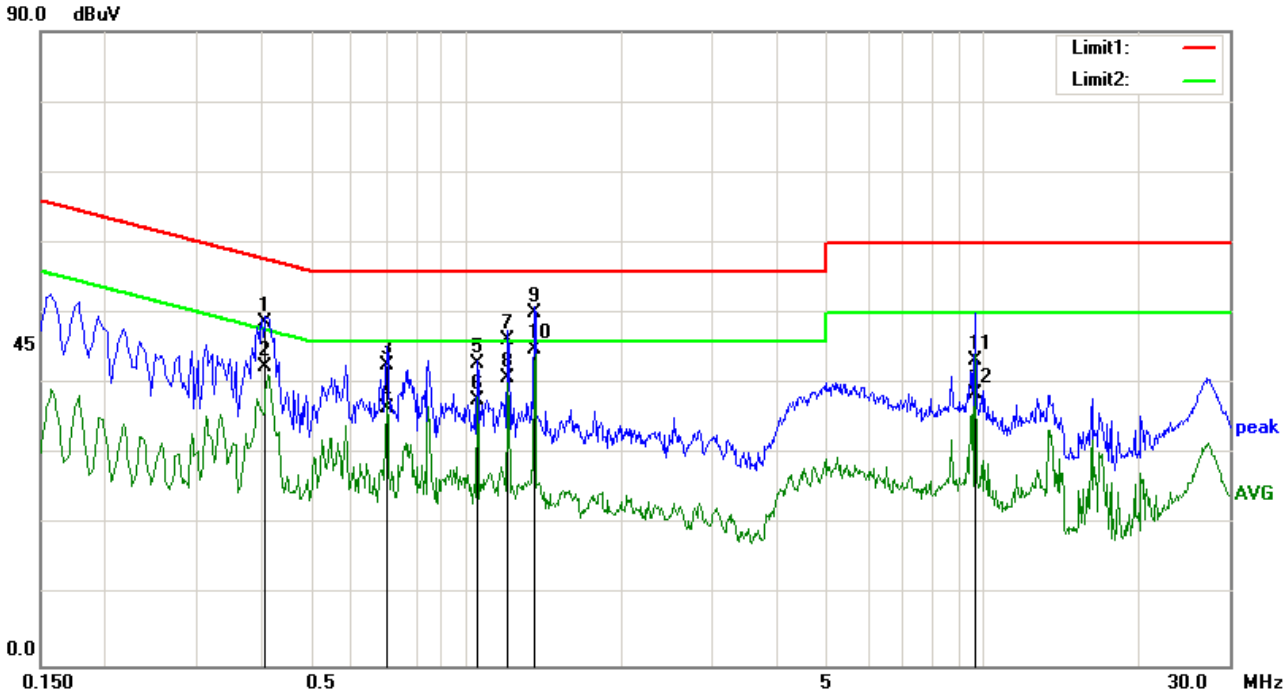


Phase Neutral Plot at 240V AC, 50Hz

No.	Frequency (MHz)	Reading (dBμV)	Detector	Lisn/lsn (dB}	Ps_Lmt (dB)	Cab_L (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)
1	0.1540	43.44	QP	0.11	-10.00	0.35	53.90	65.78	-11.88
2	0.1540	28.38	AVG	0.11	-10.00	0.35	38.84	55.78	-16.94
3	0.2740	26.20	QP	0.10	-10.00	0.20	36.50	61.00	-24.50
4	0.2740	14.29	AVG	0.10	-10.00	0.20	24.59	51.00	-26.41
5	1.4060	17.58	QP	0.15	-10.00	0.20	27.93	56.00	-28.07
6	1.4060	12.31	AVG	0.15	-10.00	0.20	22.66	46.00	-23.34
7	3.9260	22.90	QP	0.24	-10.00	0.26	33.40	56.00	-22.60
8	3.9260	16.11	AVG	0.24	-10.00	0.26	26.61	46.00	-19.39
9	4.9740	20.92	QP	0.28	-10.00	0.30	31.50	56.00	-24.50
10	4.9740	15.65	AVG	0.28	-10.00	0.30	26.23	46.00	-19.77
11	18.4700	23.57	QP	1.12	-10.00	0.52	35.21	60.00	-24.79
12	18.4700	13.36	AVG	1.12	-10.00	0.52	25.00	50.00	-25.00

Note: The highest frequency of the internal sources of the EUT is less than 108MHz, so the measurement shall only be made up to 1GHz.

Test Mode:	Normal Working (Adapter)

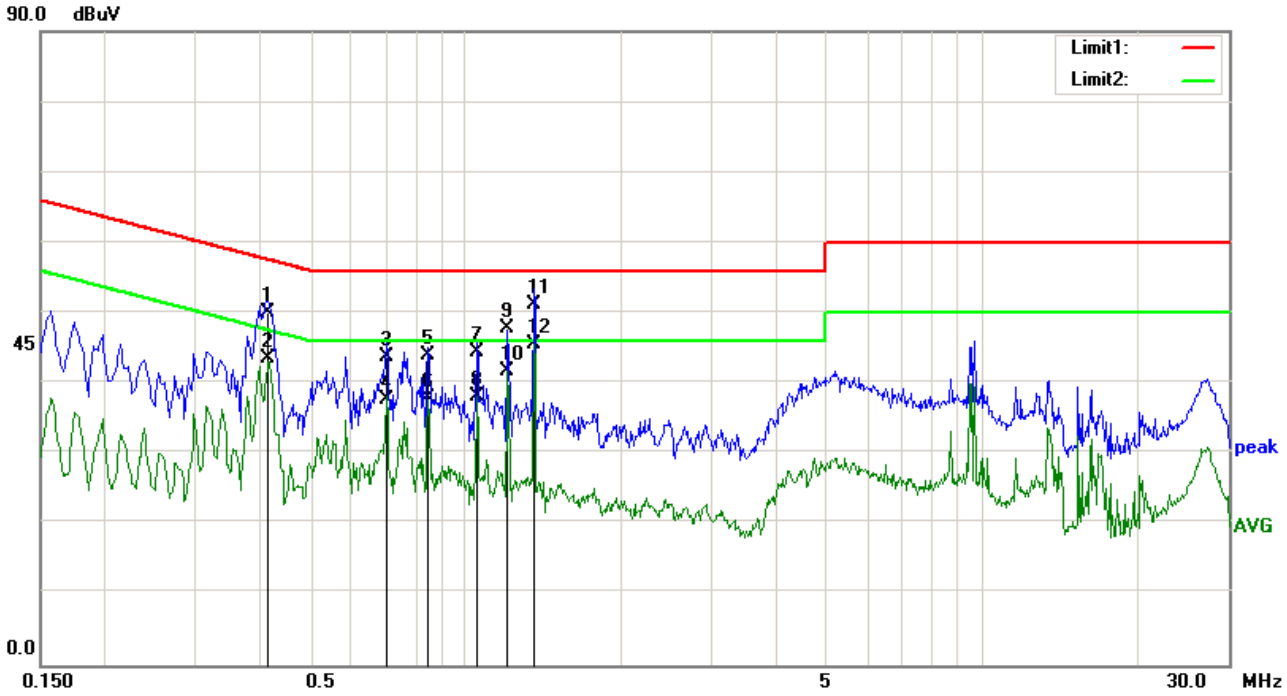


Phase Line Plot at 120V AC, 60Hz

No.	Frequency (MHz)	Reading (dBμV)	Detector	Lisn/Isn (dB}	Ps_Lmt (dB)	Cab_L (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)
1	0.4100	38.37	QP	0.11	-10.00	0.21	48.69	57.65	-8.96
2	0.4100	32.10	AVG	0.11	-10.00	0.21	42.42	47.65	-5.23
3	0.7020	32.30	QP	0.13	-10.00	0.20	42.63	56.00	-13.37
4	0.7020	26.24	AVG	0.13	-10.00	0.20	36.57	46.00	-9.43
5	1.0540	32.53	QP	0.14	-10.00	0.19	42.86	56.00	-13.14
6	1.0540	27.26	AVG	0.14	-10.00	0.19	37.59	46.00	-8.41
7	1.2060	35.90	QP	0.14	-10.00	0.21	46.25	56.00	-9.75
8	1.2060	30.46	AVG	0.14	-10.00	0.21	40.81	46.00	-5.19
9	1.3580	39.64	QP	0.15	-10.00	0.21	50.00	56.00	-6.00
10	1.3580	34.64	AVG	0.15	-10.00	0.21	45.00	46.00	-1.00
11	9.6860	32.44	QP	0.48	-10.00	0.39	43.31	60.00	-16.69
12	9.6860	27.79	AVG	0.48	-10.00	0.39	38.66	50.00	-11.34

Note: The highest frequency of the internal sources of the EUT is less than 108MHz, so the measurement shall only be made up to 1GHz.

Test Mode:	Normal Working (Adapter)

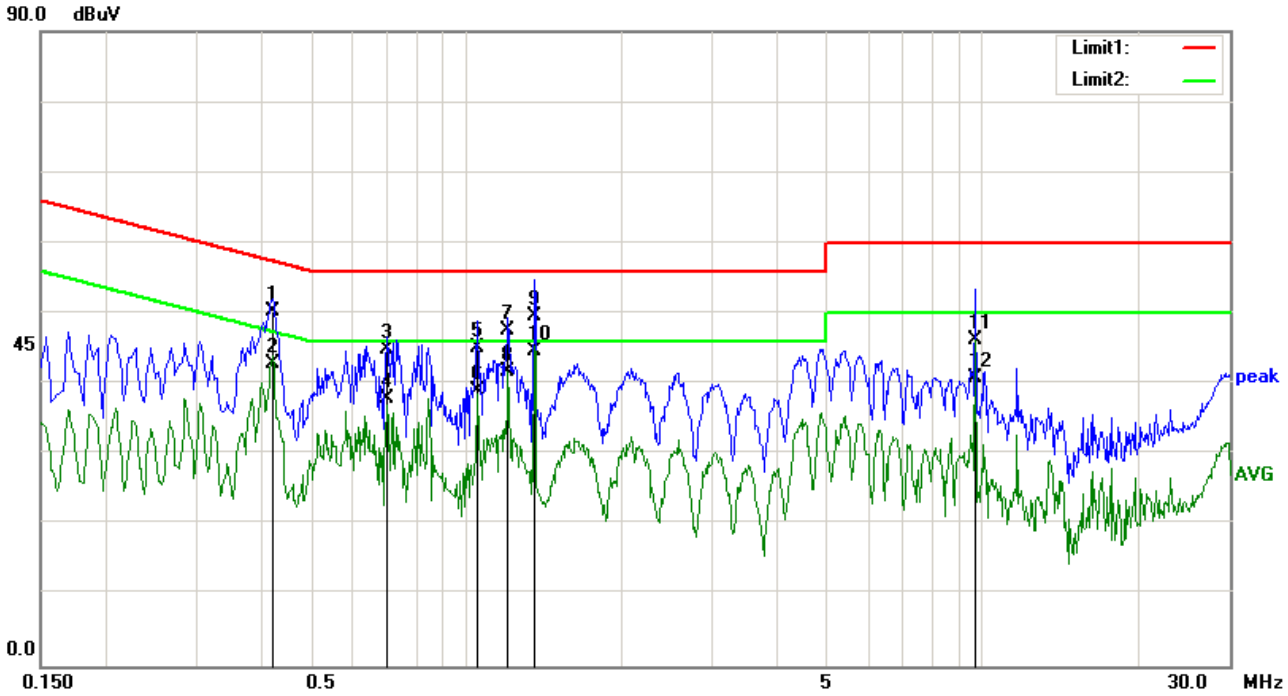


Phase Neutral Plot at 120V AC, 60Hz

No.	Frequency (MHz)	Reading (dBµV)	Detector	Lisn/Isn (dB}	Ps_Lmt (dB)	Cab_L (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	0.4140	39.83	QP	0.11	-10.00	0.21	50.15	57.57	-7.42
2	0.4140	33.16	AVG	0.11	-10.00	0.21	43.48	47.57	-4.09
3	0.7020	33.37	QP	0.12	-10.00	0.20	43.69	56.00	-12.31
4	0.7020	27.47	AVG	0.12	-10.00	0.20	37.79	46.00	-8.21
5	0.8460	33.77	QP	0.12	-10.00	0.20	44.09	56.00	-11.91
6	0.8460	27.63	AVG	0.12	-10.00	0.20	37.95	46.00	-8.05
7	1.0540	34.02	QP	0.13	-10.00	0.19	44.34	56.00	-11.66
8	1.0540	27.86	AVG	0.13	-10.00	0.19	38.18	46.00	-7.82
9	1.2060	37.56	QP	0.14	-10.00	0.21	47.91	56.00	-8.09
10	1.2060	31.38	AVG	0.14	-10.00	0.21	41.73	46.00	-4.27
11	1.3580	40.74	QP	0.14	-10.00	0.21	51.09	56.00	-4.91
12	1.3580	35.23	AVG	0.14	-10.00	0.21	45.58	46.00	-0.42

Note: The highest frequency of the internal sources of the EUT is less than 108MHz, so the measurement shall only be made up to 1GHz.

Test Mode:	Normal Working (Adapter)

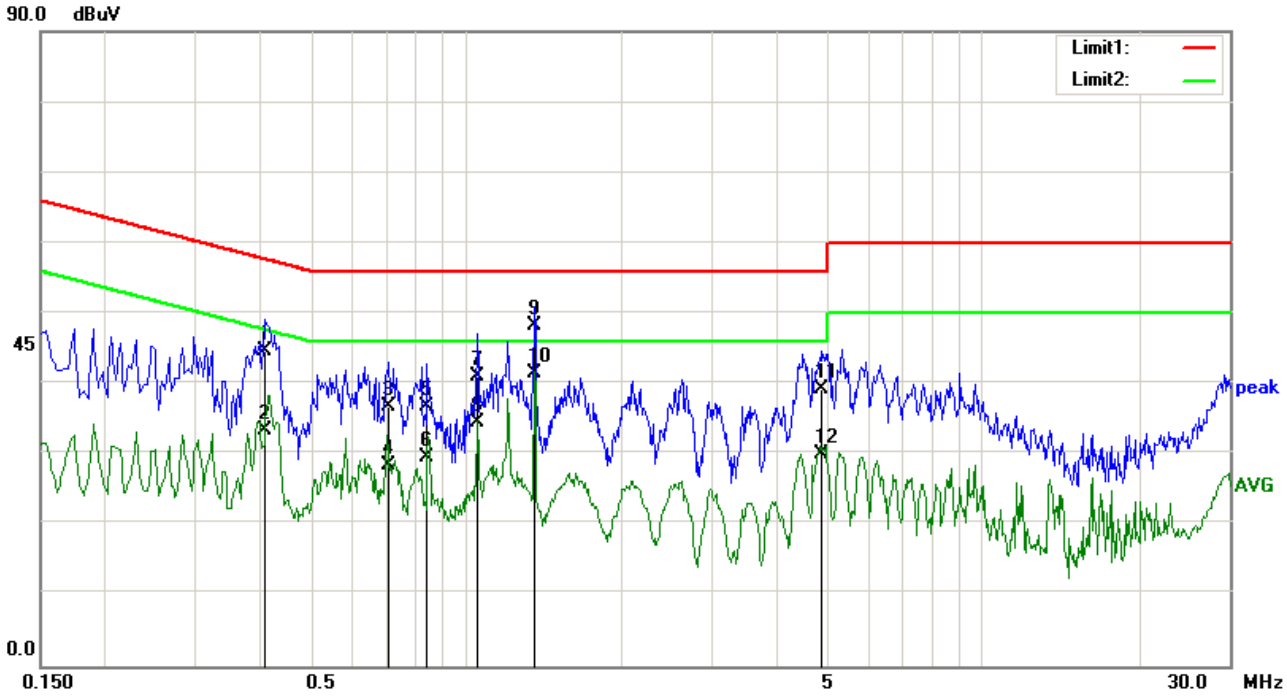


Phase Line Plot at 240V AC, 50Hz

No.	Frequency (MHz)	Reading (dBμV)	Detector	Lisn/Isn (dB}	Ps_Lmt (dB)	Cab_L (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)
1	0.4220	39.86	QP	0.11	-10.00	0.21	50.18	57.41	-7.23
2	0.4220	32.46	AVG	0.11	-10.00	0.21	42.78	47.41	-4.63
3	0.7020	34.45	QP	0.13	-10.00	0.20	44.78	56.00	-11.22
4	0.7020	27.60	AVG	0.13	-10.00	0.20	37.93	46.00	-8.07
5	1.0540	34.79	QP	0.14	-10.00	0.19	45.12	56.00	-10.88
6	1.0540	28.72	AVG	0.14	-10.00	0.19	39.05	46.00	-6.95
7	1.2060	37.29	QP	0.14	-10.00	0.21	47.64	56.00	-8.36
8	1.2060	31.32	AVG	0.14	-10.00	0.21	41.67	46.00	-4.33
9	1.3580	39.30	QP	0.15	-10.00	0.21	49.66	56.00	-6.34
10	1.3580	34.26	AVG	0.15	-10.00	0.21	44.62	46.00	-1.38
11	9.6860	35.26	QP	0.48	-10.00	0.39	46.13	60.00	-13.87
12	9.6860	29.90	AVG	0.48	-10.00	0.39	40.77	50.00	-9.23

Note: The highest frequency of the internal sources of the EUT is less than 108MHz, so the measurement shall only be made up to 1GHz.

Test Mode:	Normal Working (Adapter)



Phase Neutral Plot at 240V AC, 50Hz

No.	Frequency (MHz)	Reading (dBµV)	Detector	Lisn/lsn (dB}	Ps_Lmt (dB)	Cab_L (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	0.4100	34.37	QP	0.11	-10.00	0.21	44.69	57.65	-12.96
2	0.4100	23.05	AVG	0.11	-10.00	0.21	33.37	47.65	-14.28
3	0.7100	26.53	QP	0.12	-10.00	0.20	36.85	56.00	-19.15
4	0.7100	18.06	AVG	0.12	-10.00	0.20	28.38	46.00	-17.62
5	0.8420	26.48	QP	0.12	-10.00	0.20	36.80	56.00	-19.20
6	0.8420	19.35	AVG	0.12	-10.00	0.20	29.67	46.00	-16.33
7	1.0540	30.63	QP	0.13	-10.00	0.19	40.95	56.00	-15.05
8	1.0540	24.23	AVG	0.13	-10.00	0.19	34.55	46.00	-11.45
9	1.3580	37.84	QP	0.14	-10.00	0.21	48.19	56.00	-7.81
10	1.3580	31.21	AVG	0.14	-10.00	0.21	41.56	46.00	-4.44
11	4.8940	28.69	QP	0.28	-10.00	0.29	39.26	56.00	-16.74
12	4.8940	19.54	AVG	0.28	-10.00	0.29	30.11	46.00	-15.89

Note: The highest frequency of the internal sources of the EUT is less than 108MHz, so the measurement shall only be made up to 1GHz.

6.2 Radiated Emissions

Temperature	23°C
Relative Humidity	51%
Atmospheric Pressure	1022mbar
Test date :	February 14 to February 23, 2018
Tested By :	Louise Tu

Requirement(s):

Spec	Requirement	Applicable
47CFR §15.109	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	☑

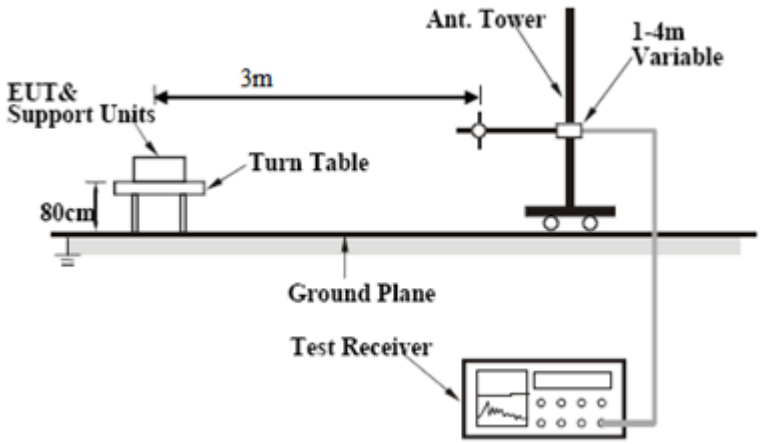
Class A Limit

Frequency range (MHz)	Field Strength (μV/m)
30 – 88	90
88 – 216	150
216 – 960	210
Above 960	300

Class B Limit

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 characterisation. 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 polarisation (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. For emission frequencies measured below and above 1GHz, set the spectrum analyzer on a 100kHz and 1MHz resolution bandwidth respectively for each frequency measured.
4. 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

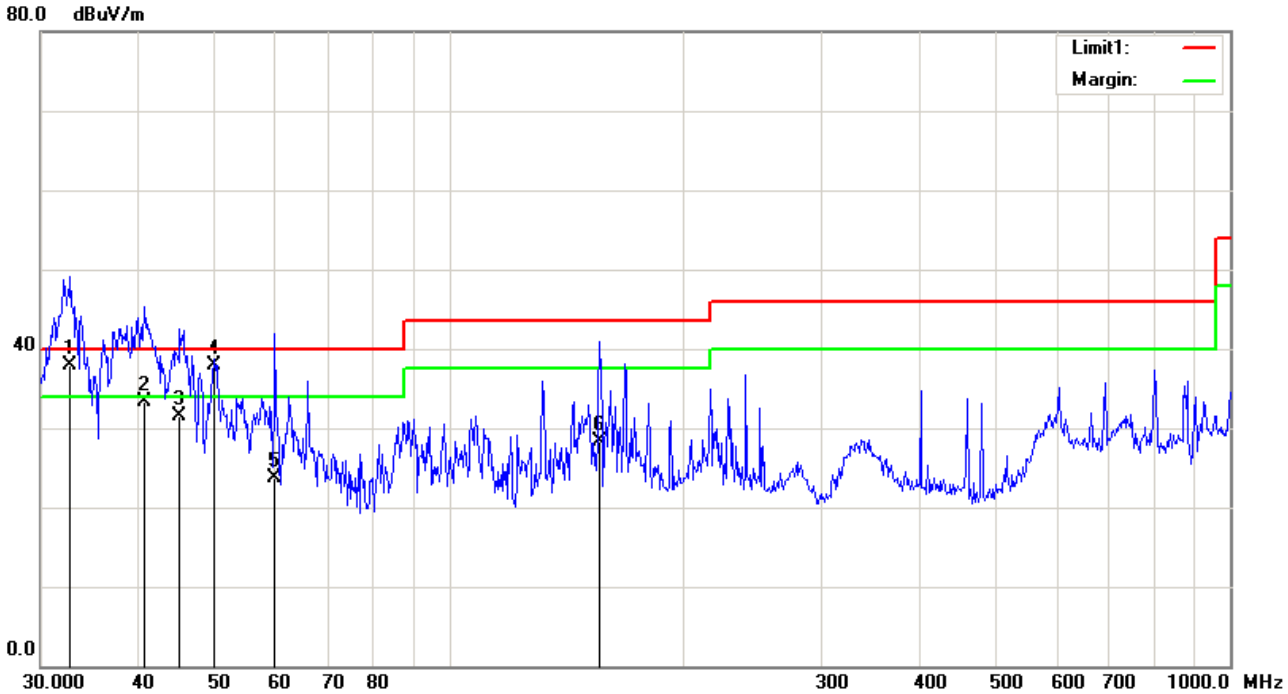
Degree = Turn table degree

Calculation Formula:

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

Test Mode:	Normal Working (Notebook)

(Below 1GHz)



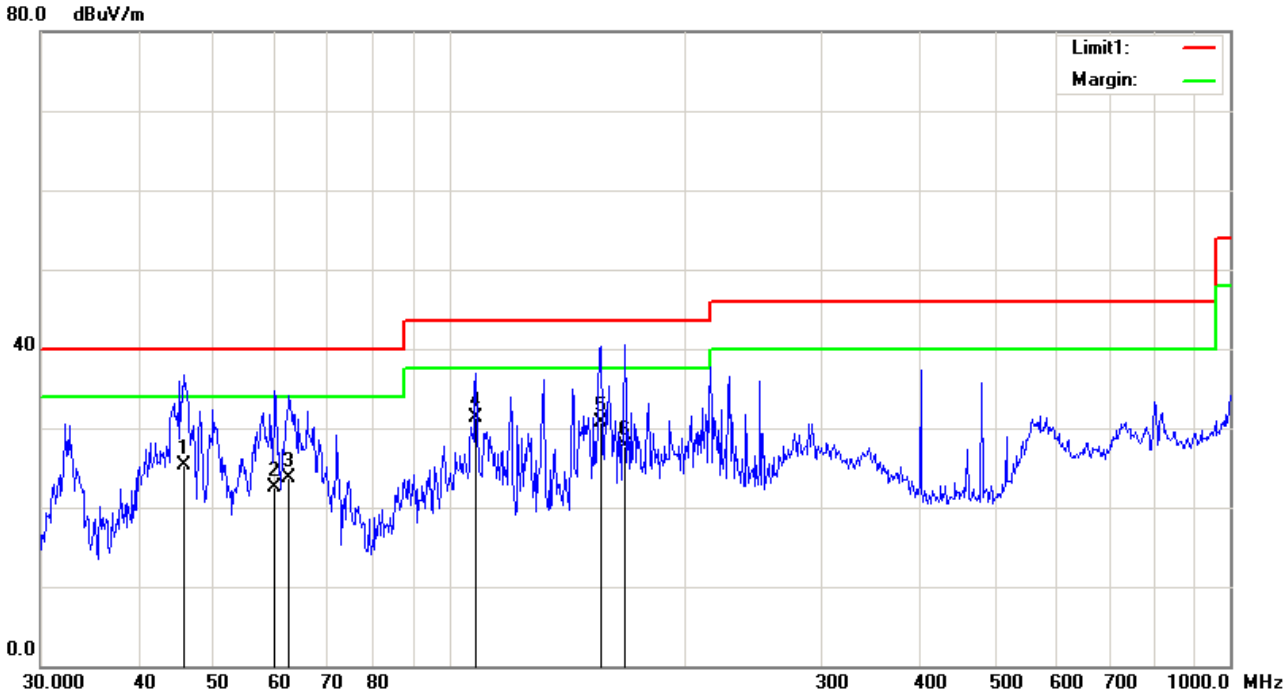
Test Data

Vertical Polarity Plot @3m

No.	Frequency (MHz)	Reading (dBμV/m)	Detector	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (°)
1	32.7486	62.64	QP	20.00	45.66	0.92	37.90	40.00	-2.10	100	126
2	40.7016	62.77	QP	15.31	45.74	1.06	33.40	40.00	-6.60	100	294
3	45.2166	64.11	QP	12.27	46.03	1.15	31.50	40.00	-8.50	100	46
4	50.0566	74.16	QP	9.04	46.45	1.25	38.00	40.00	-2.00	100	248
5	59.8588	61.80	QP	7.86	47.26	1.30	23.70	40.00	-16.30	200	342
6	155.9101	60.29	QP	13.60	47.57	2.08	28.40	43.50	-15.10	100	359

Test Mode:	Normal Working (Notebook)

(Below 1GHz)



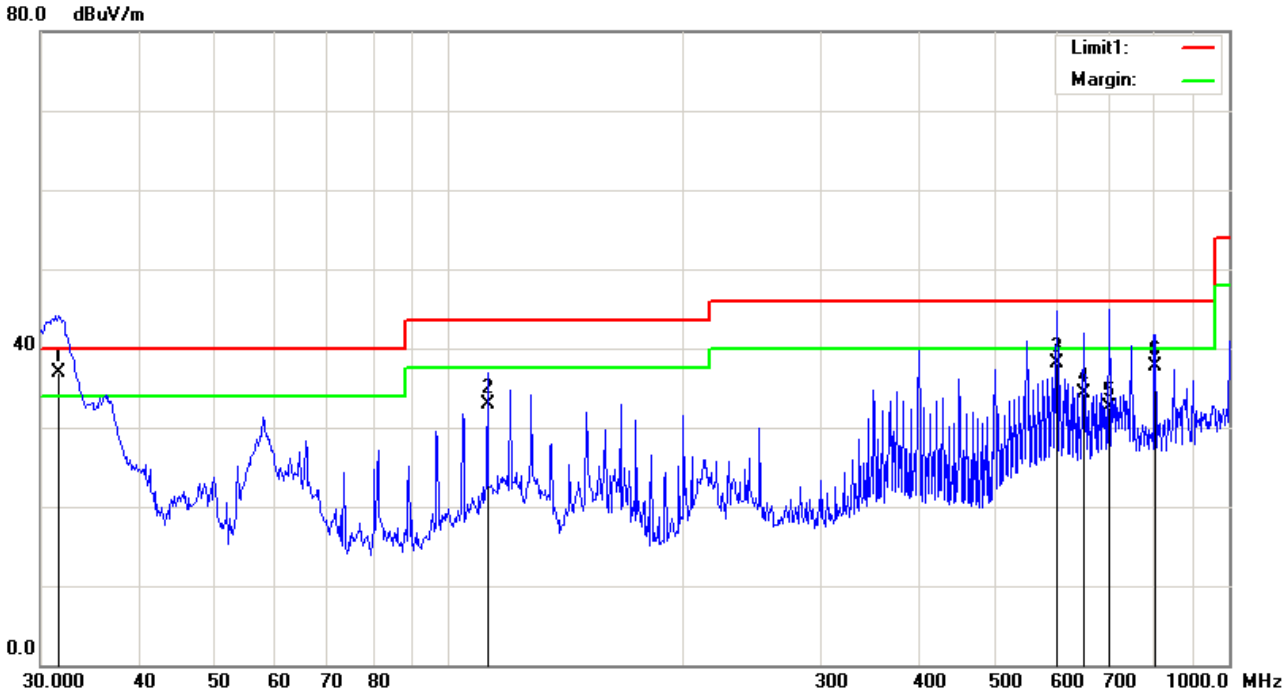
Test Data

Horizontal Polarity Plot @3m

No.	Frequency (MHz)	Reading (dBμV/m)	Detector	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (°)
1	45.8553	59.90	QP	10.33	46.09	1.17	25.31	40.00	-14.69	300	175
2	59.8588	58.91	QP	9.49	47.26	1.30	22.44	40.00	-17.56	200	173
3	62.4314	60.11	QP	9.78	47.46	1.33	23.76	40.00	-16.24	300	188
4	108.2667	61.41	QP	14.50	46.29	1.68	31.30	43.50	-12.20	200	182
5	156.4578	63.50	QP	12.68	47.53	2.08	30.73	43.50	-12.77	200	200
6	167.8243	59.98	QP	12.27	46.66	2.09	27.68	43.50	-15.82	200	207

Test Mode:	Normal Working (Adapter)

(Below 1GHz)



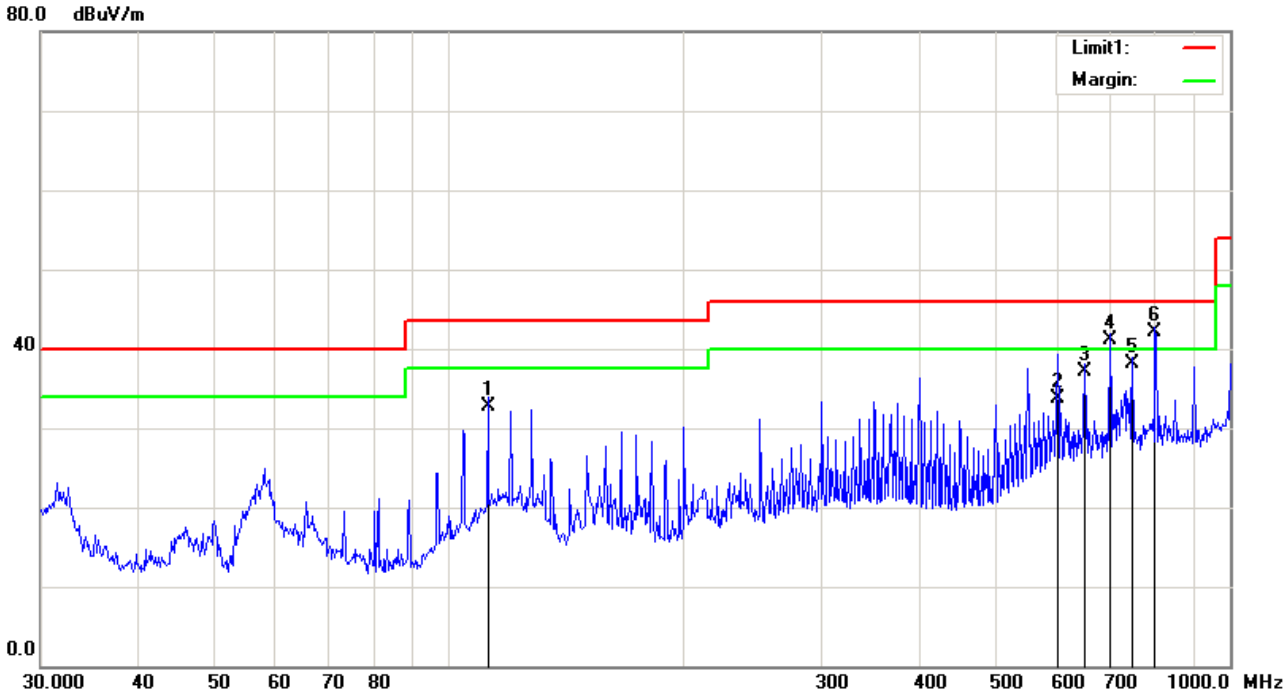
Test Data

Vertical Polarity Plot @3m

No.	Frequency (MHz)	Reading (dBμV/m)	Detector	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (°)
1	31.6202	61.11	QP	20.66	45.67	0.90	37.00	40.00	-3.00	200	198
2	112.1305	63.20	QP	14.30	46.31	1.71	32.90	43.50	-10.60	100	4
3	601.4265	62.55	QP	20.29	48.58	3.94	38.20	46.00	-7.80	200	6
4	651.9417	56.98	QP	21.47	48.15	4.10	34.40	46.00	-11.60	200	6
5	701.7610	51.06	QP	22.57	45.39	4.26	32.50	46.00	-13.50	200	199
6	804.6028	57.80	QP	21.65	46.21	4.56	37.80	46.00	-8.20	100	6

Test Mode:	Normal Working (Adapter)

(Below 1GHz)



Test Data

Horizontal Polarity Plot @3m

No.	Frequency (MHz)	Reading (dBμV/m)	Detector	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (°)
1	112.1305	62.08	QP	15.22	46.31	1.71	32.70	43.50	-10.80	300	150
2	601.4265	57.16	QP	21.28	48.58	3.94	33.80	46.00	-12.20	200	322
3	651.9417	59.40	QP	21.85	48.15	4.10	37.20	46.00	-8.80	300	92
4	701.7610	59.82	QP	22.41	45.39	4.26	41.10	46.00	-4.90	200	173
5	750.1083	56.02	QP	22.70	45.02	4.40	38.10	46.00	-7.90	200	356
6	801.7863	60.97	QP	22.99	46.31	4.55	42.20	46.00	-3.80	300	65

Annex A. TEST INSTRUMENT

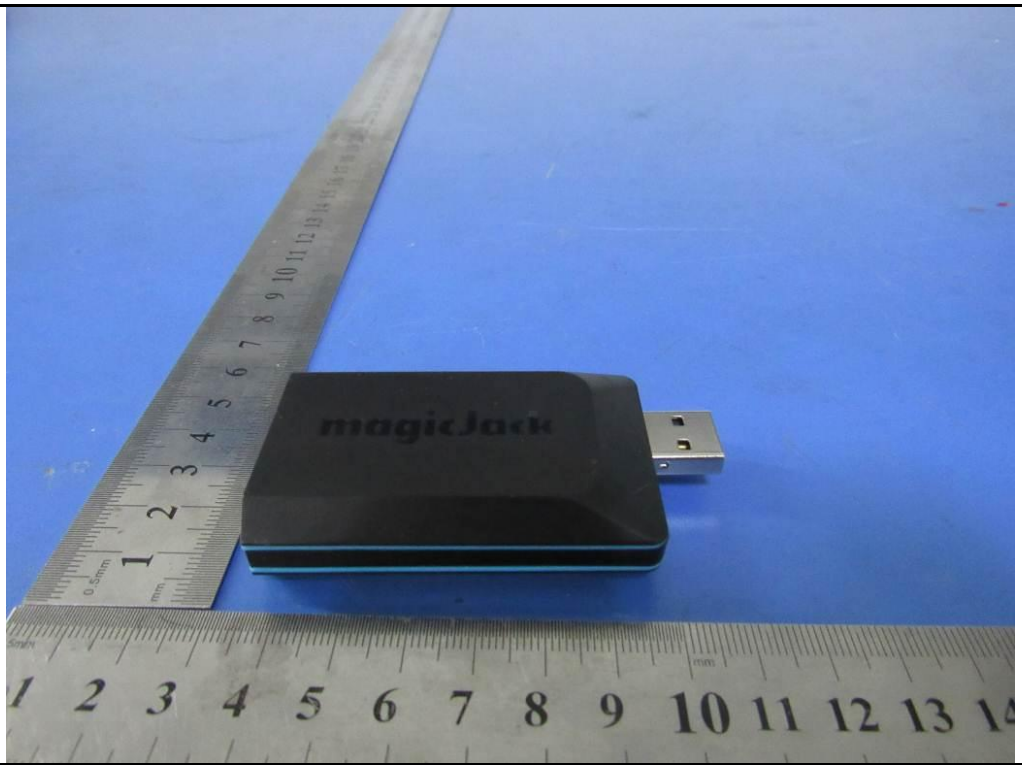
Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted Emissions					
R&S EMI Test Receiver	ESPI3	101216	05/03/2017	05/02/2018	☒
V-LISN	ESH3-Z5	838979/005	05/15/2017	05/14/2018	☒
SIEMIC EZ_EMC Conducted Emissions software	Ver.ICP-03A1	N/A	N/A	N/A	☒
Radiated Emissions					
Spectrum Analyzer	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	04/15/2017	04/14/2018	☒
Agilent Pre-Amplifier	8449B	N/A	10/31/2017	10/30/2018	☐
Hp Agilent Pre-Amplifier	8447F	1937A01160	10/26/2017	10/25/2018	☒
EMCO Horn Antenna (1~18GHz)	3115	N/A	10/08/2017	10/07/2018	☐
SIEMIC EZ_EMC Radiated Emissions software	Ver.ICP-03A1	N/A	N/A	N/A	☒

Annex B. EUT And Test Setup Photographs

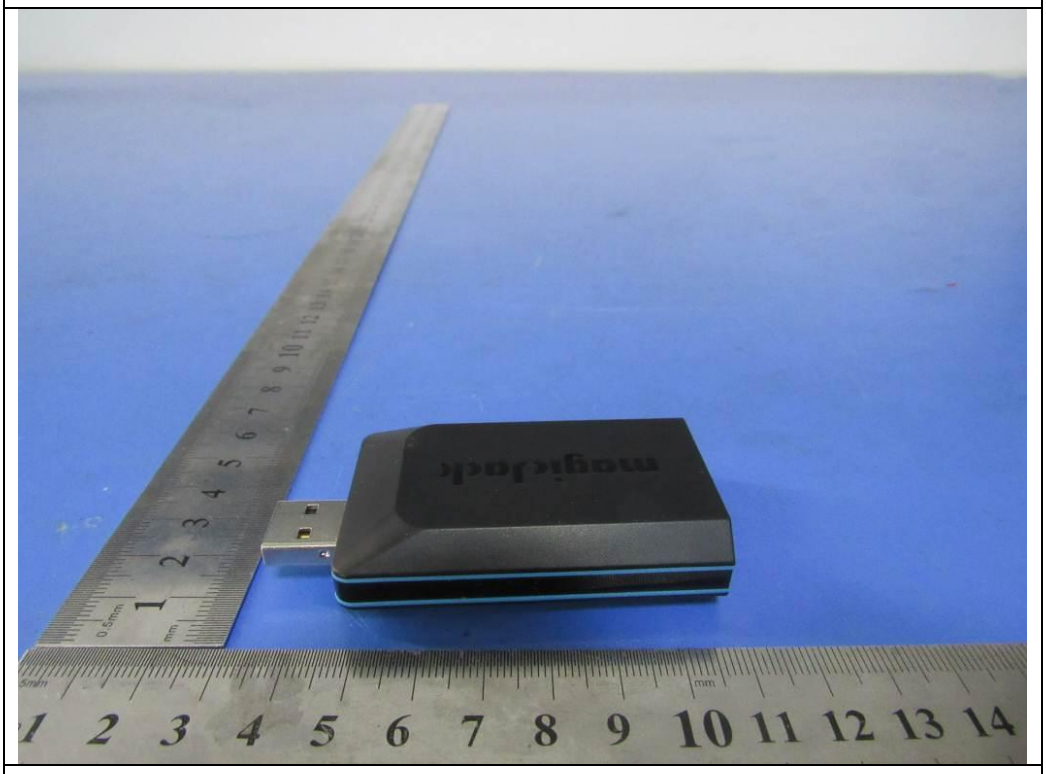
Annex B.i. Photograph EUT External Photo

The Whole Package – Front View

Adapter – Front View



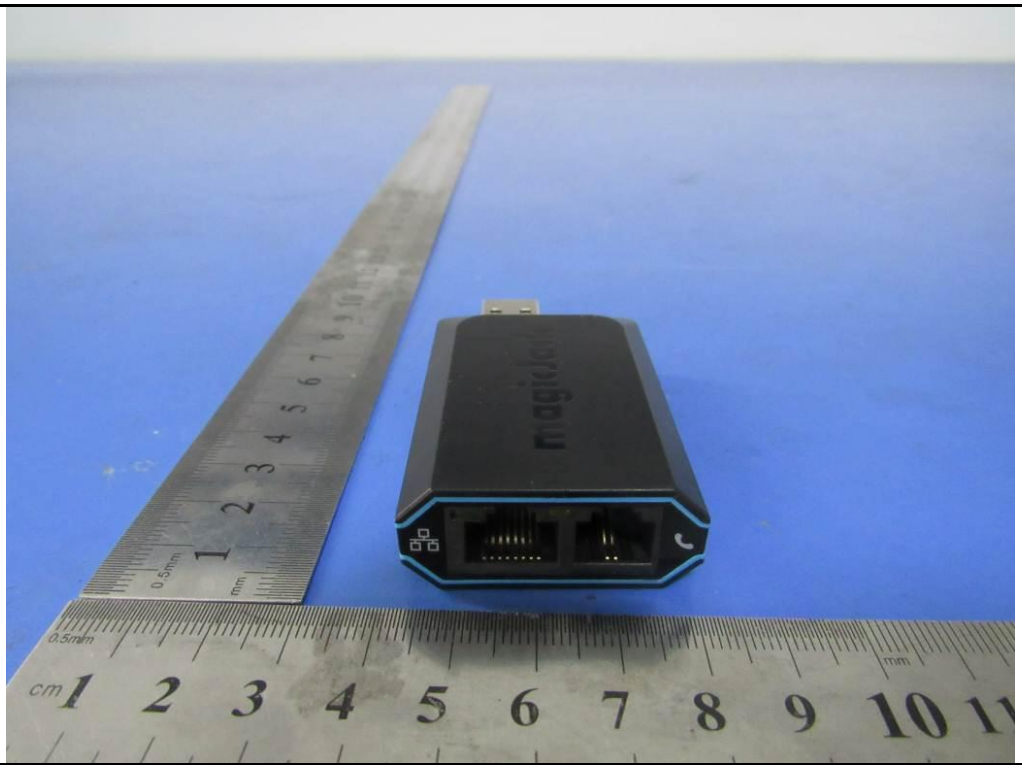
Front View of EUT



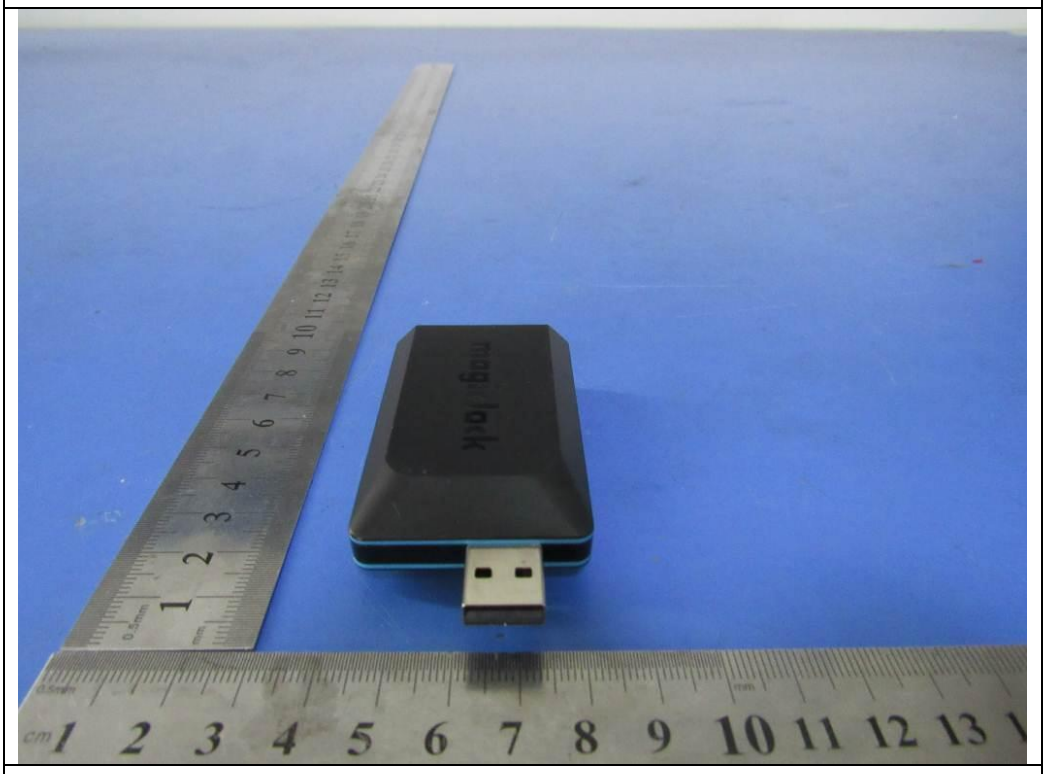
Rear View of EUT

Top View of EUT

Bottom View of EUT

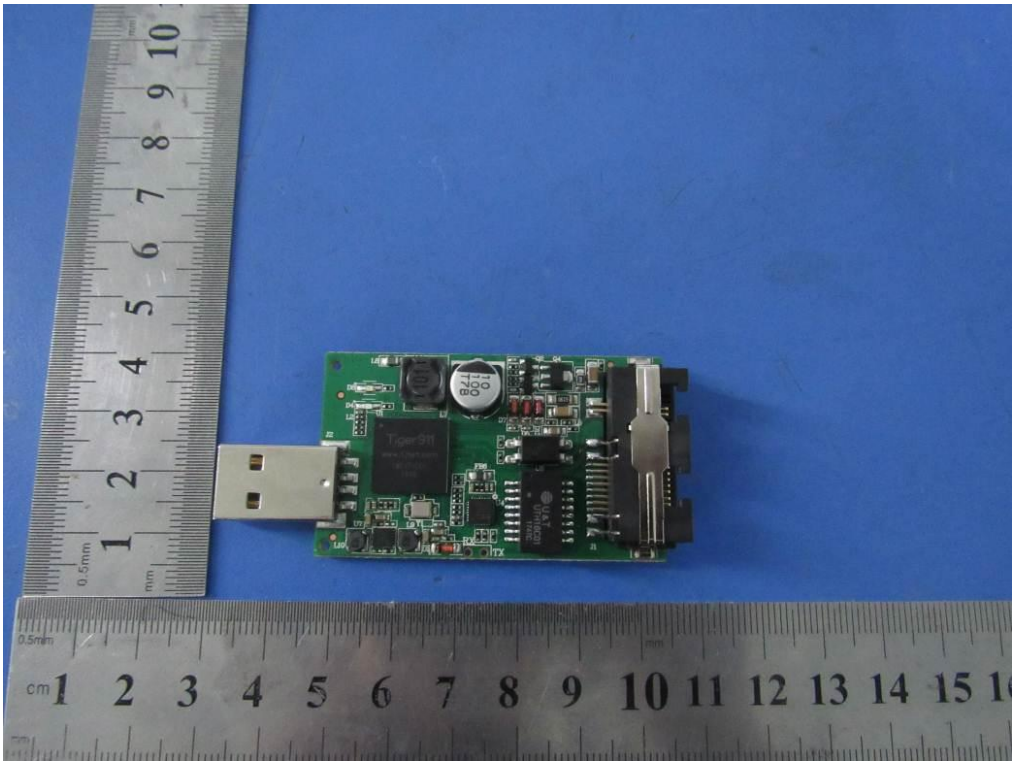


Left View of EUT

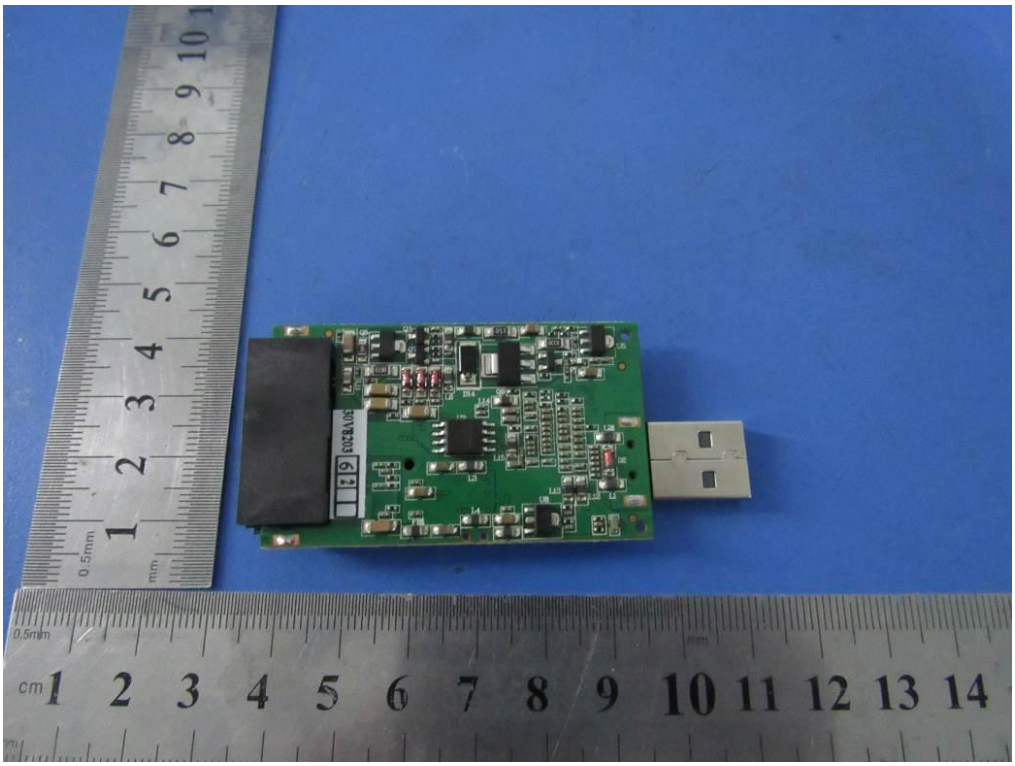


Right View of EUT

Annex B.ii. Photograph EUT Internal Photo



PCBA - Front View



PCBA – Rear View

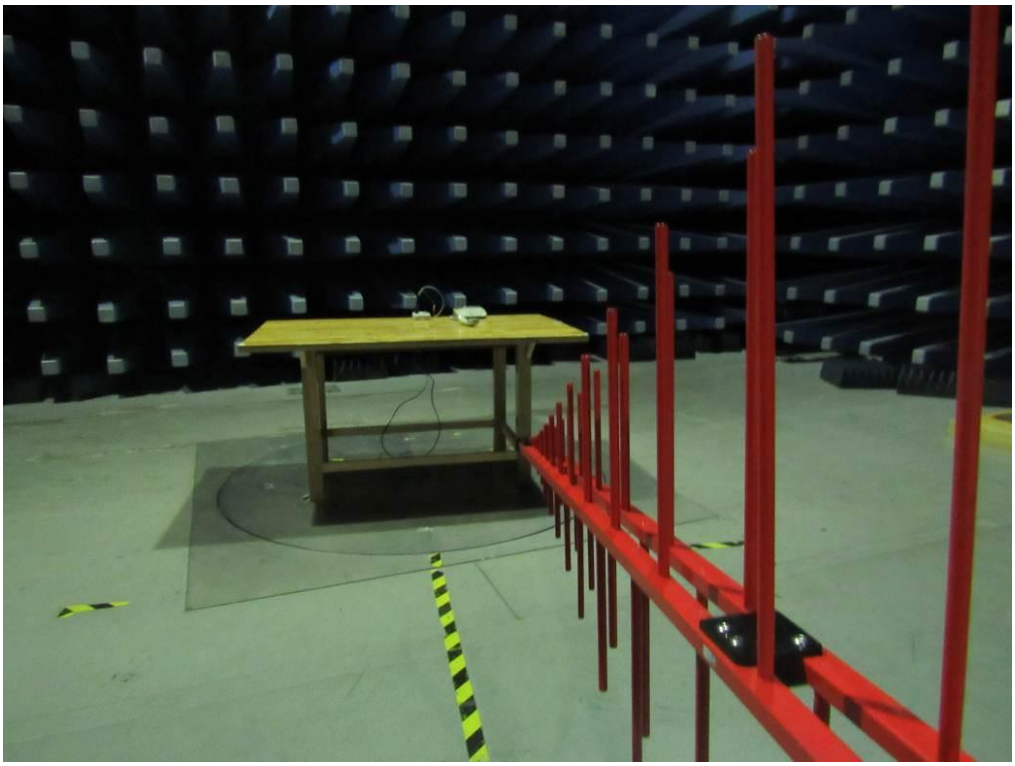
Annex B.iii. Photograph: Test Setup Photo

Conducted Emissions Test Setup Front View (Adapter)

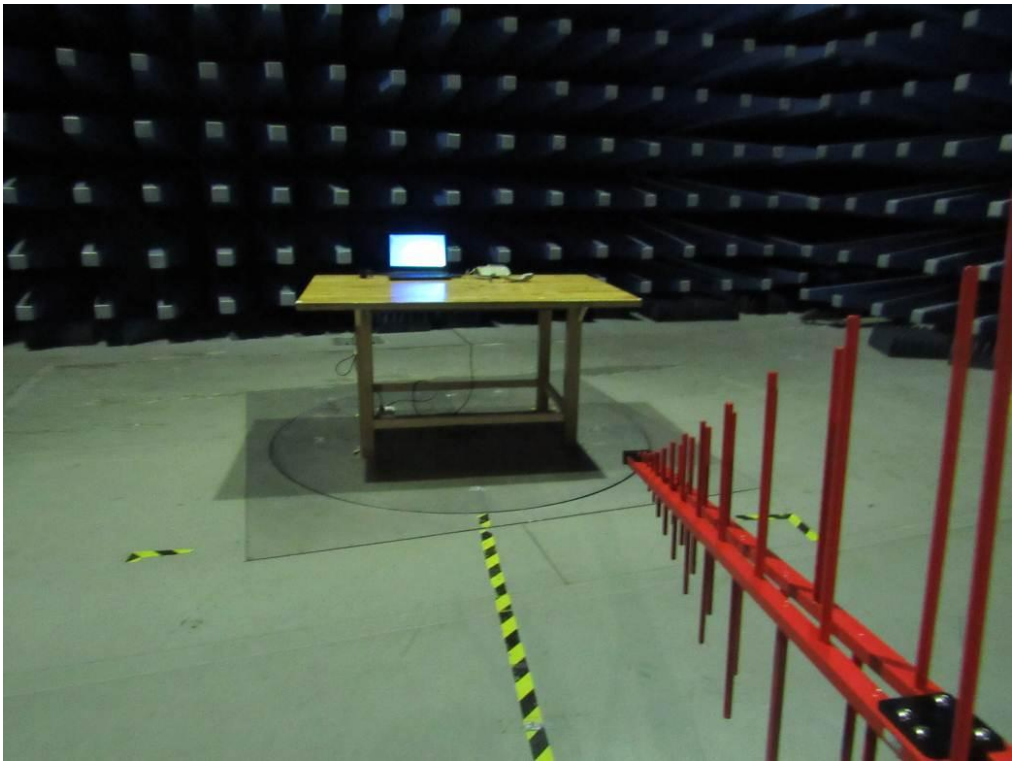
Conducted Emissions Test Setup Side View (Adapter)

Conducted Emissions Test Setup Front View (Notebook)

Conducted Emissions Test Setup Side View (Notebook)



Radiated Emissions Setup Below 1GHz Front View (Adapter)



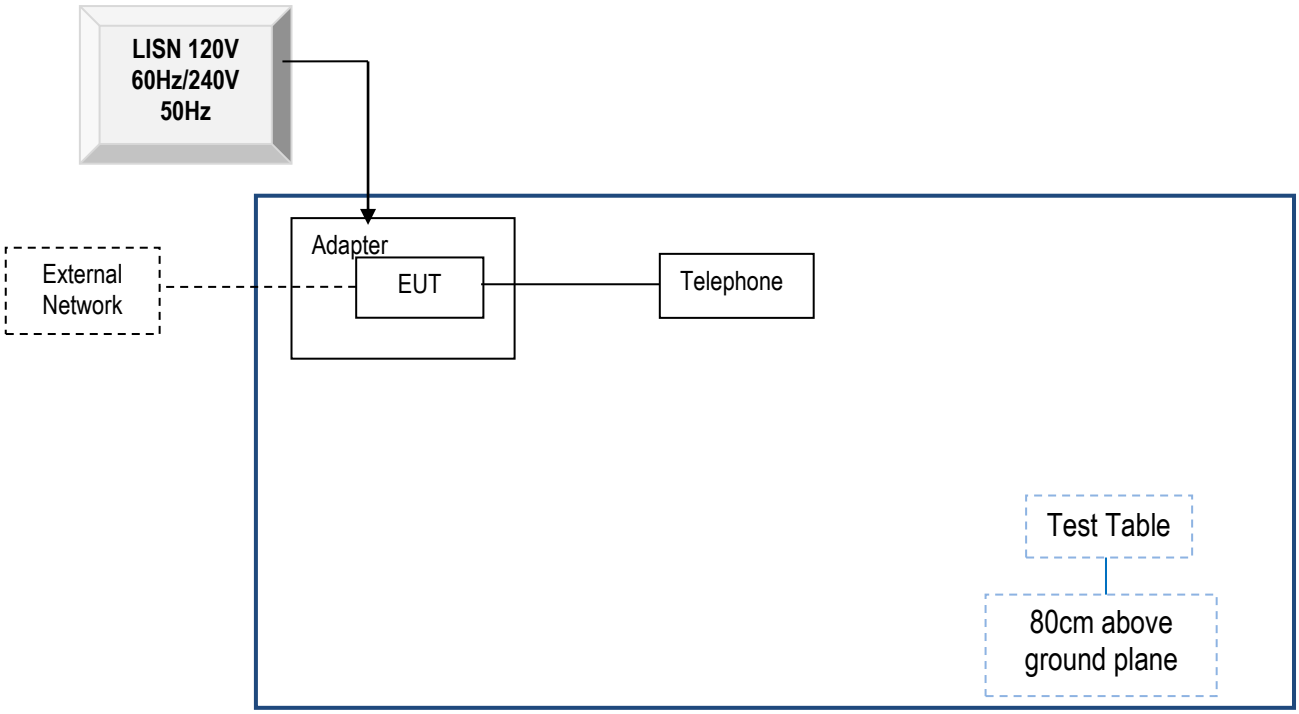
Radiated Emissions Setup Below 1GHz Front View (Notebook)

Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

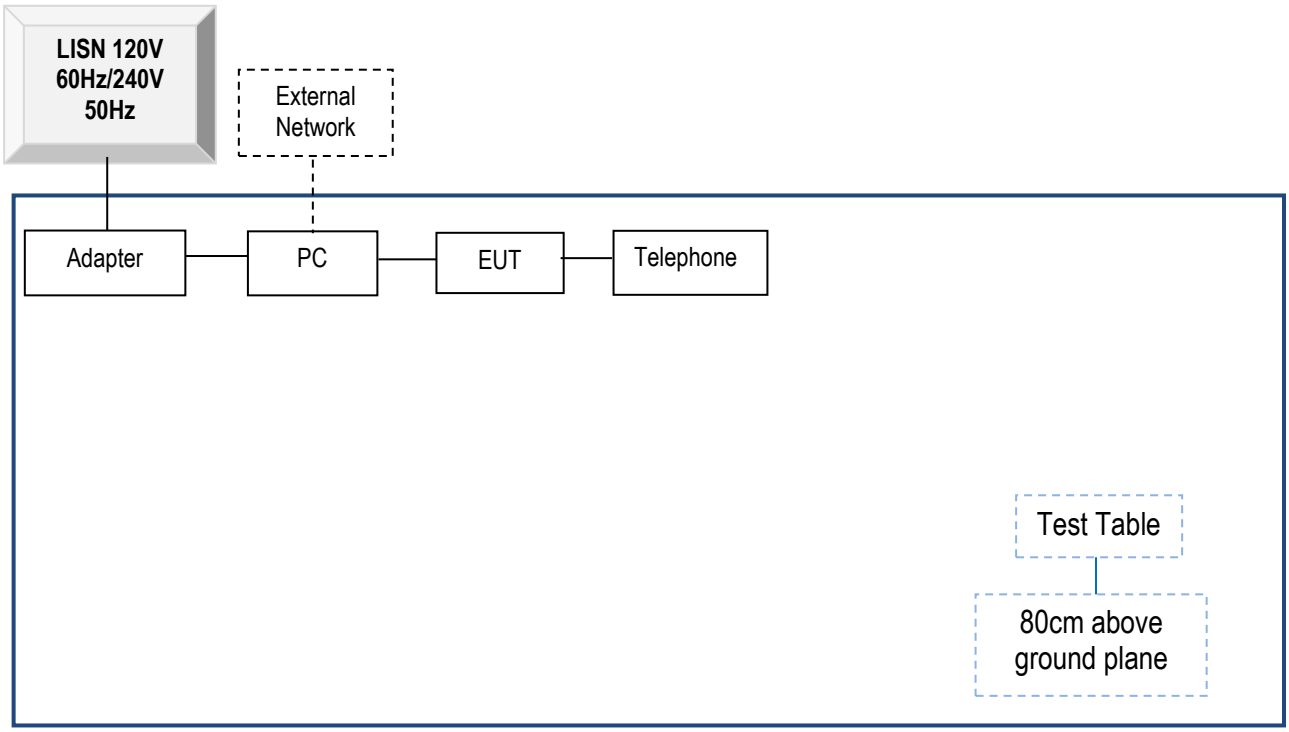
Annex C.i. TEST SET UP BLOCK

Block Configuration Diagram for Conducted Emissions

Adapter

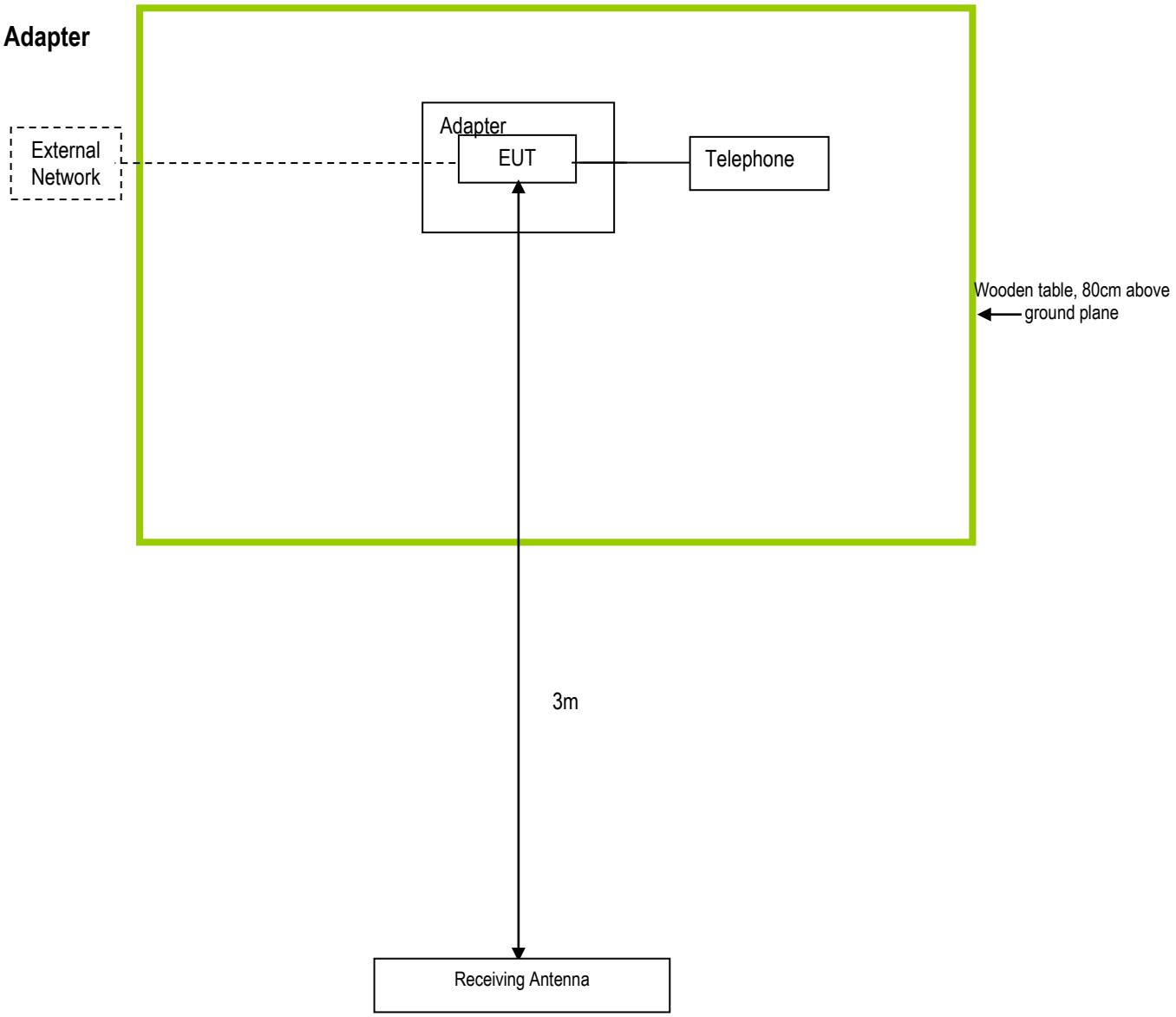


Notebook


LISN 120V
60Hz/240V
50Hz
External
Network
Adapter
PC
EUT
Telephone
Test Table
80cm above
ground plane

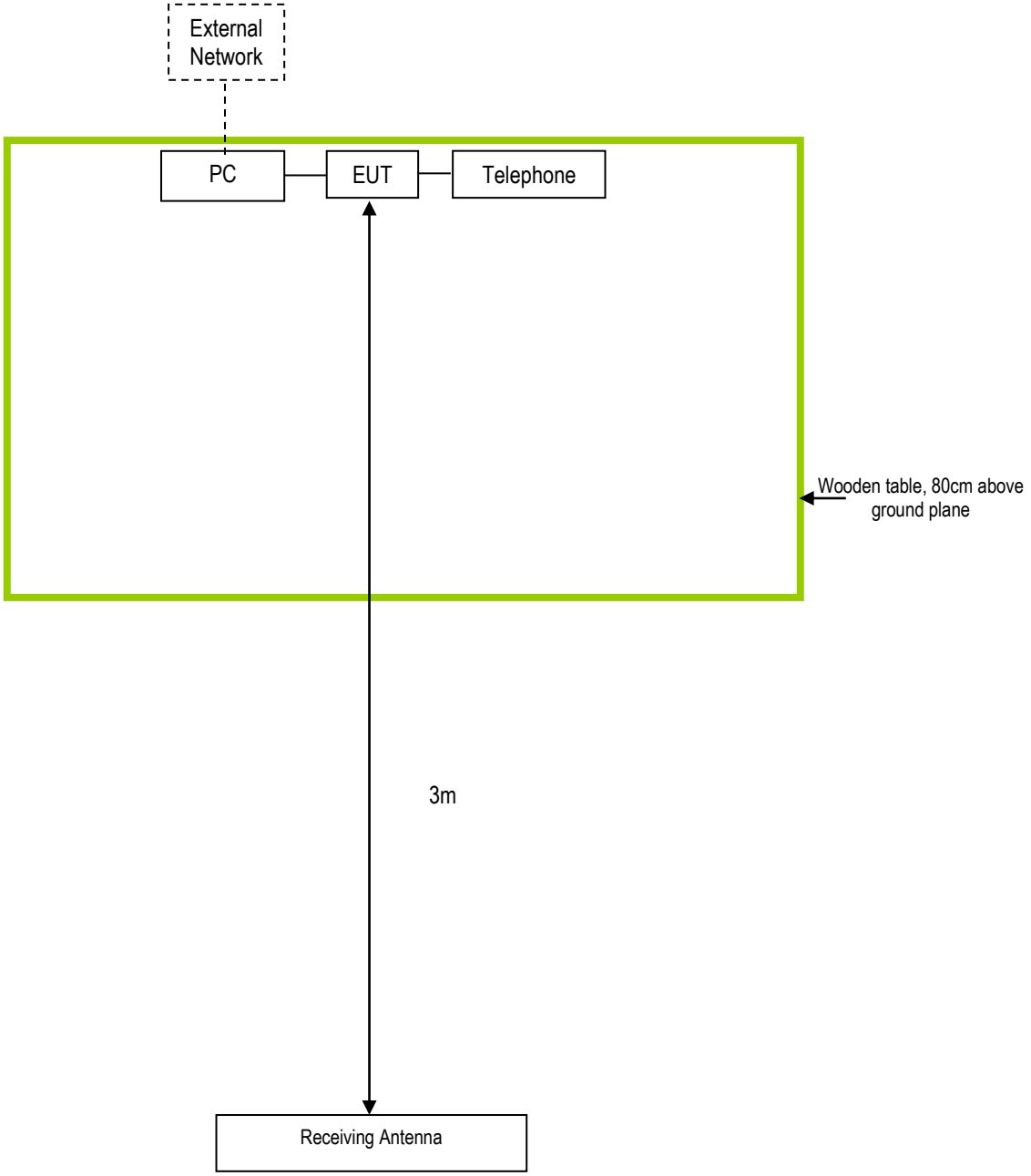
Block Configuration Diagram for Radiated Emissions

Adapter



Block Configuration Diagram for Radiated Emissions

Notebook



Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Manufacturer	Equipment Description	Model	Calibration Date
Dell	Notebook	inspiron14-3443	N/A
TCL	Telephone	TCL HCD868 (17B) TSD	N/A

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

Please see Attachment

Annex E. DECLARATION OF SIMILARITY

N/A