

EMC TEST REPORT



Report No.: 17020516-FCC-E

Supersede Report No.: N/A

Applicant	YMAX Communications Corp.	
Product Name	Magicjack Go	
Main Model	K1103	
Test Standard	FCC Part 15 Subpart B Class B:2016, ANSI C63.4: 2014	
Test Date	June 21 to July 04,2017	
Issue Date	July 06, 2017	
Test Result	☒ Pass ☐ Fail	
Equipment complied with the specification	☒	
Equipment did not comply with the specification	☐	
		
Peter Wei Test Engineer	Deon Dai Engineer Reviewer	
This test report may be reproduced in full only 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
17020516-FCC-E	NONE	Original	July 06, 2017

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.	986914
IC Test Site No.	4842B-1
Test Software	EZ EMC

4. Equipment under Test (EUT) Information

Description of EUT: Magicjack Go

Main Model: K1103

Serial Model: K1103E、K1103S、K1103T

Date EUT received: May 04, 2017

Test Date(s): June 21 to July 04, 2017

Port: USB Port、RJ11 Port、RJ45 Port

Input Power: AC Adapter K1103
Input: 100-240VAC 50/60Hz, 0.2A
Output: 5V, 1A

Trade Name : N/A

FCC ID: Y79K1103

Note: the difference between the two models please refer to Annex E. DECLARATION OF SIMILARITY.

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

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

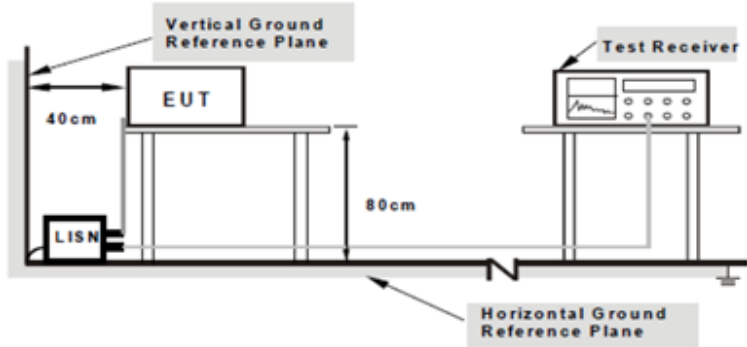
6. Measurements, Examination And Derived Results

6.1 AC Power Line Conducted Emissions

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	June 21, 2017
Tested By :	Peter Wei

Requirement(s):

Spec	Item	Requirement	Applicable														
47CFR§15.207, RSS210 (A8.1)	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.	☒														
		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>		Frequency ranges (MHz)	Limit (dBµV)		QP	Average	0.15 ~ 0.5	79	66	0.5 ~ 30	73	60			
		Frequency ranges (MHz)			Limit (dBµV)												
				QP	Average												
		0.15 ~ 0.5		79	66												
		0.5 ~ 30		73	60												
		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>		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.
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Procedure	- 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 50 [μ]H/50 EUT LISN, connected to filtered mains. - The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable. - All other supporting equipment were powered separately from another main supply. - The EUT was switched on and allowed to warm up to its normal operating condition. - 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. - 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. - Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).
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

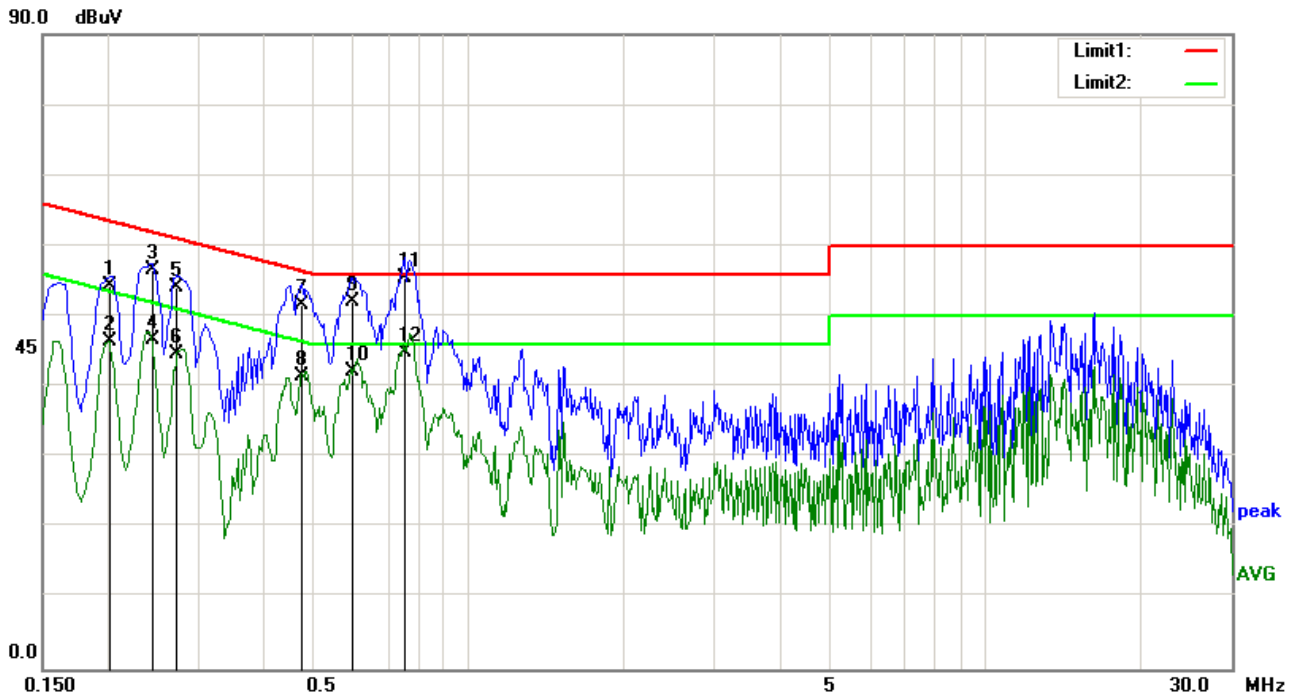
Result (dBμV) = Reading Value + Corrected Value

Limit (dBμV) = Limit stated in standard

Calculation Formula:

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

Test Mode:	Normal Working (Adapter)
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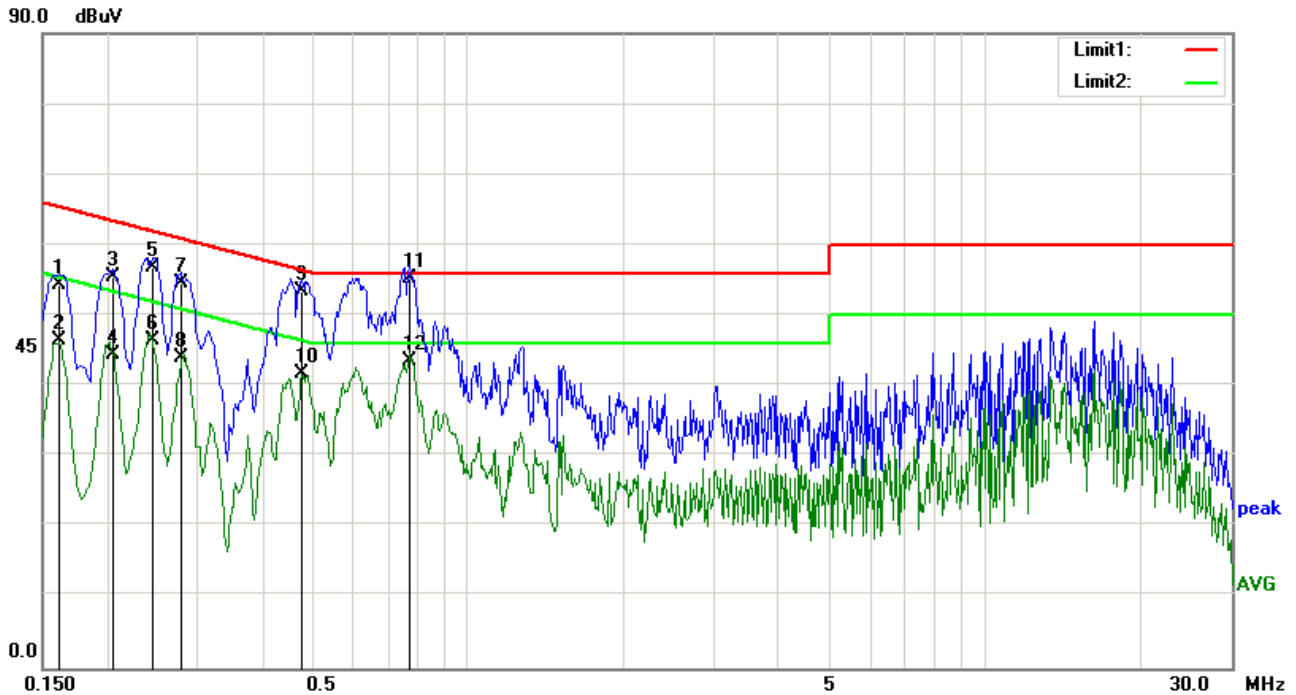


Test Data

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	0.2020	43.88	QP	0.10	-10.00	0.28	54.26	63.53	-9.27
2	0.2020	35.98	AVG	0.10	-10.00	0.28	46.36	53.53	-7.17
3	0.2460	46.17	QP	0.10	-10.00	0.21	56.48	61.89	-5.41
4	0.2460	36.32	AVG	0.10	-10.00	0.21	46.63	51.89	-5.26
5	0.2740	43.87	QP	0.10	-10.00	0.20	54.17	61.00	-6.83
6	0.2740	34.36	AVG	0.10	-10.00	0.20	44.66	51.00	-6.34
7	0.4780	41.39	QP	0.12	-10.00	0.21	51.72	56.37	-4.65
8	0.4780	31.15	AVG	0.12	-10.00	0.21	41.48	46.37	-4.89
9	0.5980	41.77	QP	0.12	-10.00	0.21	52.10	56.00	-3.90
10	0.5980	31.93	AVG	0.12	-10.00	0.21	42.26	46.00	-3.74
11	0.7580	45.13	QP	0.13	-10.00	0.20	55.46	56.00	-0.54
12	0.7580	34.57	AVG	0.13	-10.00	0.20	44.90	46.00	-1.10

Test Mode:	Normal Working (Adapter)
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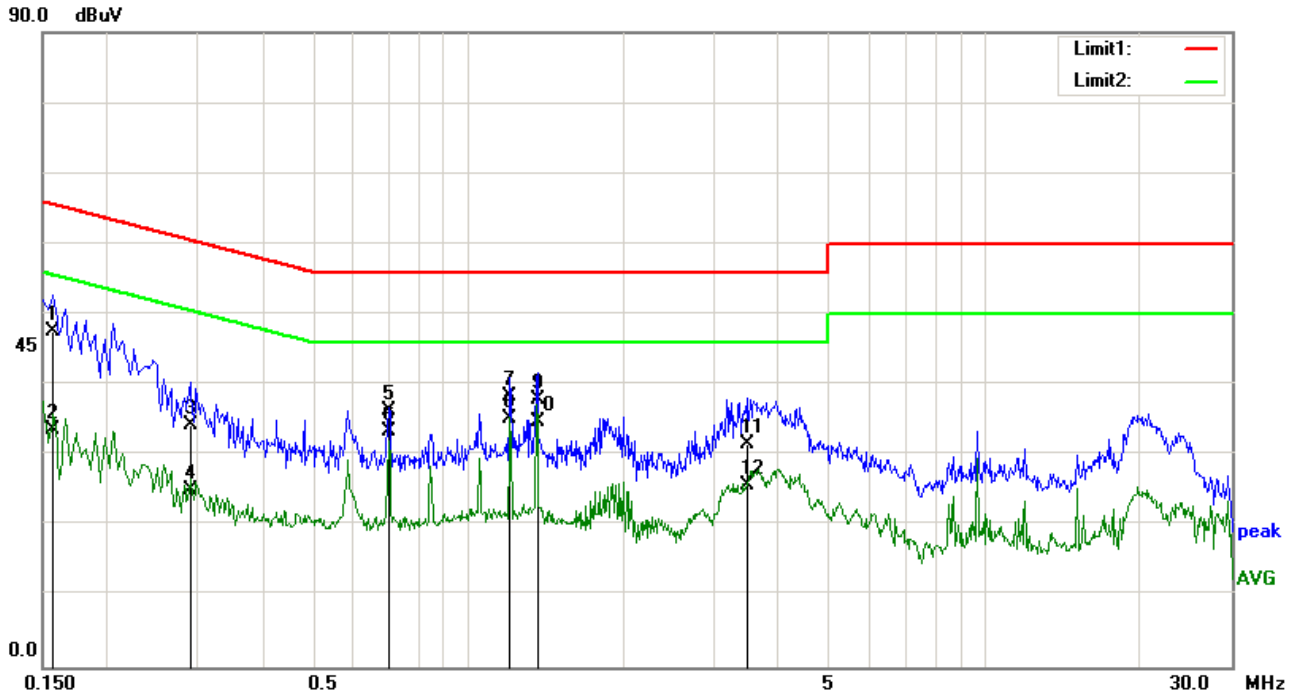


Test Data

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	0.1620	43.88	QP	0.11	-10.00	0.34	54.33	65.36	-11.03
2	0.1620	35.99	AVG	0.11	-10.00	0.34	46.44	55.36	-8.92
3	0.2060	45.10	QP	0.10	-10.00	0.27	55.47	63.37	-7.90
4	0.2060	34.17	AVG	0.10	-10.00	0.27	44.54	53.37	-8.83
5	0.2460	46.59	QP	0.10	-10.00	0.21	56.90	61.89	-4.99
6	0.2460	36.13	AVG	0.10	-10.00	0.21	46.44	51.89	-5.45
7	0.2780	44.30	QP	0.10	-10.00	0.20	54.60	60.88	-6.28
8	0.2780	33.72	AVG	0.10	-10.00	0.20	44.02	50.88	-6.86
9	0.4780	43.14	QP	0.11	-10.00	0.21	53.46	56.37	-2.91
10	0.4780	31.33	AVG	0.11	-10.00	0.21	41.65	46.37	-4.72
11	0.7740	44.88	QP	0.12	-10.00	0.20	55.20	56.00	-0.80
12	0.7740	33.28	AVG	0.12	-10.00	0.20	43.60	46.00	-2.40

Test Mode:	Normal Working (Notebook)
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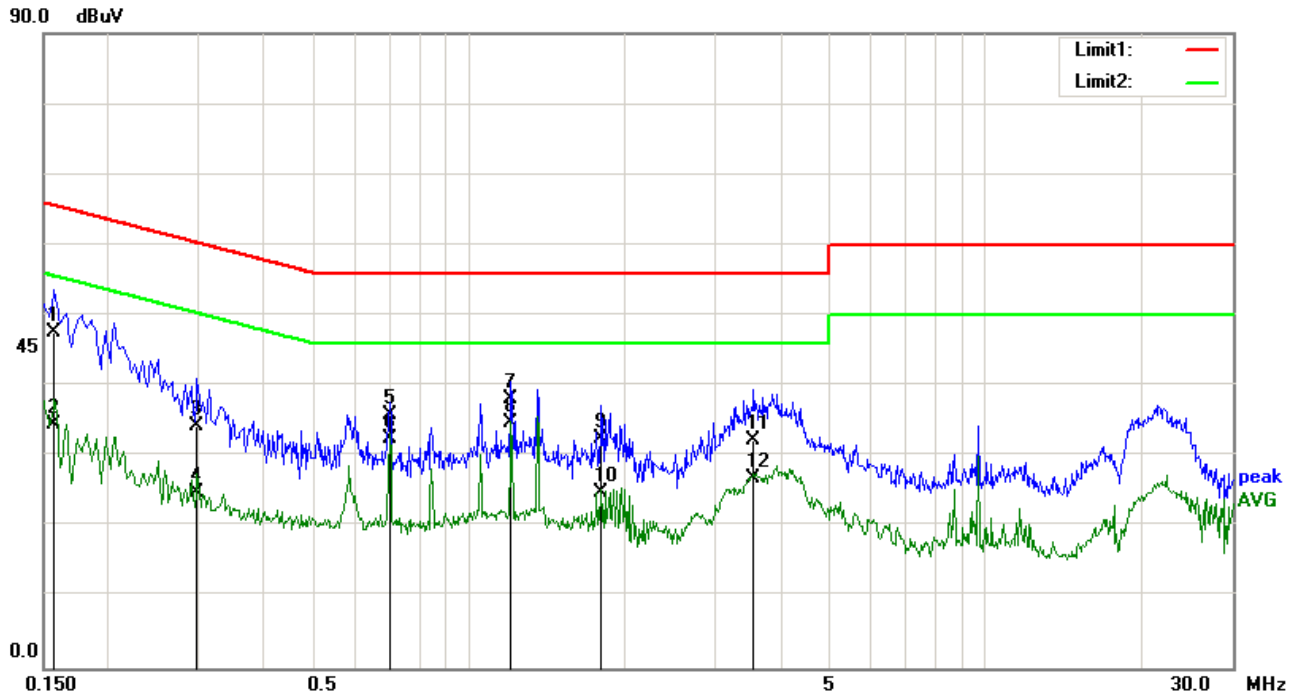


Test Data

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	0.1580	37.08	QP	0.10	-10.00	0.35	47.53	65.57	-18.04
2	0.1580	23.22	AVG	0.10	-10.00	0.35	33.67	55.57	-21.90
3	0.2900	23.95	QP	0.11	-10.00	0.20	34.26	60.52	-26.26
4	0.2900	14.78	AVG	0.11	-10.00	0.20	25.09	50.52	-25.43
5	0.7020	26.01	QP	0.13	-10.00	0.20	36.34	56.00	-19.66
6	0.7020	23.06	AVG	0.13	-10.00	0.20	33.39	46.00	-12.61
7	1.2060	27.94	QP	0.14	-10.00	0.21	38.29	56.00	-17.71
8	1.2060	24.89	AVG	0.14	-10.00	0.21	35.24	46.00	-10.76
9	1.3620	27.57	QP	0.15	-10.00	0.21	37.93	56.00	-18.07
10	1.3620	24.47	AVG	0.15	-10.00	0.21	34.83	46.00	-11.17
11	3.4620	21.19	QP	0.21	-10.00	0.25	31.65	56.00	-24.35
12	3.4620	15.37	AVG	0.21	-10.00	0.25	25.83	46.00	-20.17

Test Mode:	Normal Working (Notebook)
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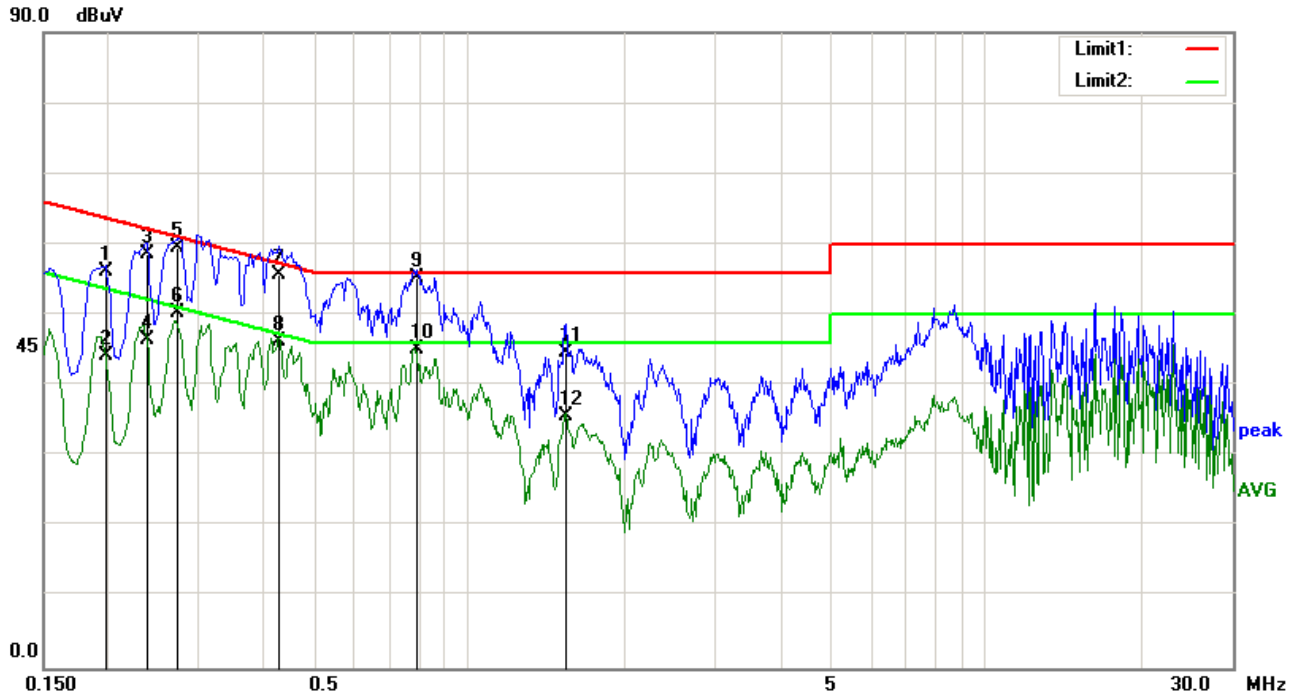


Test Data

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	0.1580	37.20	QP	0.11	-10.00	0.35	47.66	65.57	-17.91
2	0.1580	23.98	AVG	0.11	-10.00	0.35	34.44	55.57	-21.13
3	0.2980	24.10	QP	0.10	-10.00	0.20	34.40	60.30	-25.90
4	0.2980	14.64	AVG	0.10	-10.00	0.20	24.94	50.30	-25.36
5	0.7020	25.48	QP	0.12	-10.00	0.20	35.80	56.00	-20.20
6	0.7020	22.27	AVG	0.12	-10.00	0.20	32.59	46.00	-13.41
7	1.2060	27.88	QP	0.14	-10.00	0.21	38.23	56.00	-17.77
8	1.2060	24.40	AVG	0.14	-10.00	0.21	34.75	46.00	-11.25
9	1.8020	22.10	QP	0.16	-10.00	0.20	32.46	56.00	-23.54
10	1.8020	14.58	AVG	0.16	-10.00	0.20	24.94	46.00	-21.06
11	3.5620	21.72	QP	0.23	-10.00	0.25	32.20	56.00	-23.80
12	3.5620	16.33	AVG	0.23	-10.00	0.25	26.81	46.00	-19.19

Test Mode: Normal Working (Adapter)

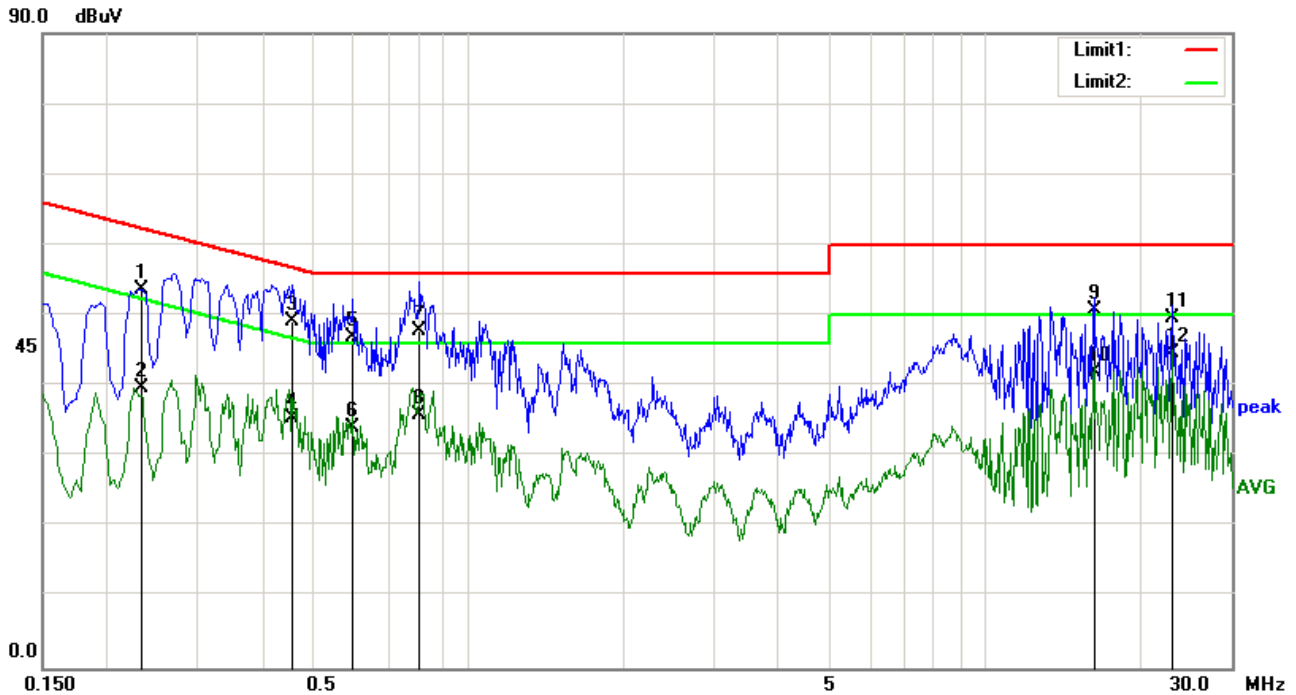


Test Data

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	0.1980	45.70	QP	0.10	-10.00	0.28	56.08	63.69	-7.61
2	0.1980	33.92	AVG	0.10	-10.00	0.28	44.30	53.69	-9.39
3	0.2380	48.34	QP	0.10	-10.00	0.22	58.66	62.17	-3.51
4	0.2380	36.04	AVG	0.10	-10.00	0.22	46.36	52.17	-5.81
5	0.2740	49.30	QP	0.10	-10.00	0.20	59.60	61.00	-1.40
6	0.2740	40.05	AVG	0.10	-10.00	0.20	50.35	51.00	-0.65
7	0.4300	45.47	QP	0.12	-10.00	0.21	55.80	57.25	-1.45
8	0.4300	35.87	AVG	0.12	-10.00	0.21	46.20	47.25	-1.05
9	0.7940	44.87	QP	0.13	-10.00	0.20	55.20	56.00	-0.80
10	0.7940	34.77	AVG	0.13	-10.00	0.20	45.10	46.00	-0.90
11	1.5380	34.28	QP	0.15	-10.00	0.20	44.63	56.00	-11.37
12	1.5380	25.38	AVG	0.15	-10.00	0.20	35.73	46.00	-10.27

Test Mode:	Normal Working (Adapter)
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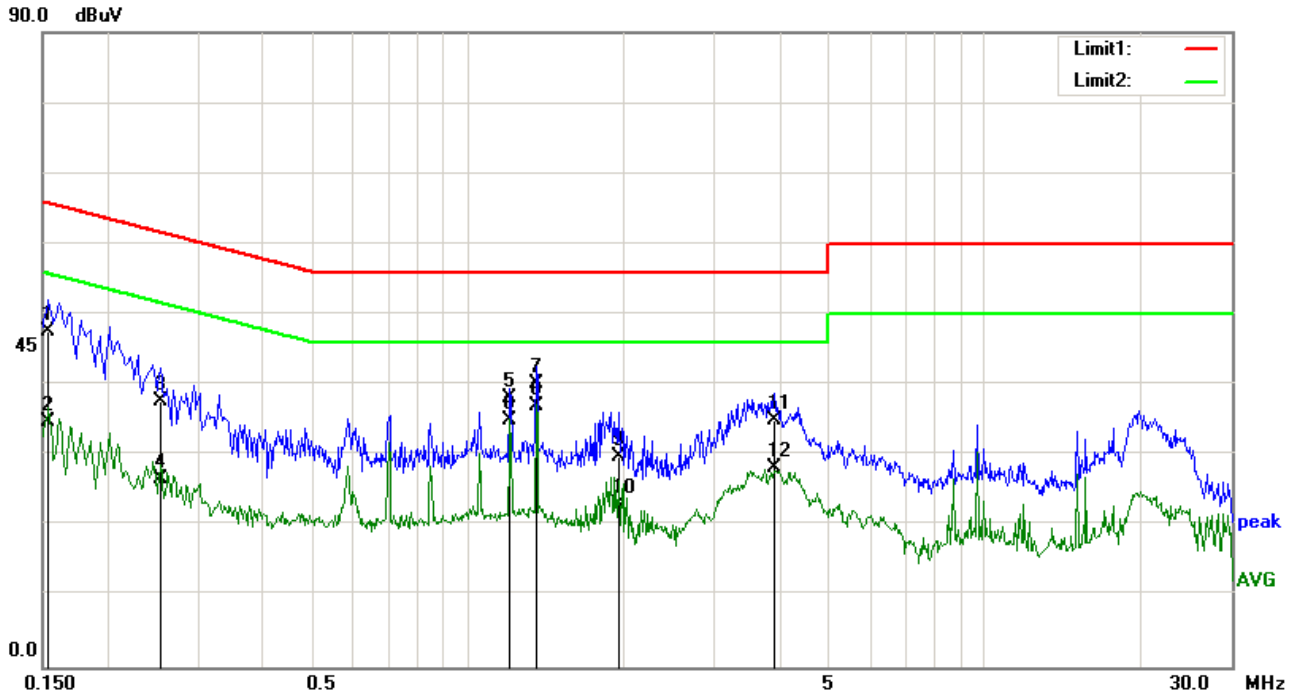


Test Data

Phase Neutral Plot at 230Vac, 60Hz

No.	Frequency (MHz)	Reading (dBuV)	Detector	Lisn/Isn (dB)	Ps_Lmt (dB)	Cab_L (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.2340	43.27	QP	0.10	-10.00	0.23	53.60	62.31	-8.71
2	0.2340	29.32	AVG	0.10	-10.00	0.23	39.65	52.31	-12.66
3	0.4580	38.82	QP	0.11	-10.00	0.21	49.14	56.73	-7.59
4	0.4580	25.07	AVG	0.11	-10.00	0.21	35.39	46.73	-11.34
5	0.5980	36.61	QP	0.11	-10.00	0.21	46.93	56.00	-9.07
6	0.5980	23.71	AVG	0.11	-10.00	0.21	34.03	46.00	-11.97
7	0.8060	37.56	QP	0.12	-10.00	0.20	47.88	56.00	-8.12
8	0.8060	25.63	AVG	0.12	-10.00	0.20	35.95	46.00	-10.05
9	16.2300	39.36	QP	1.01	-10.00	0.47	50.84	60.00	-9.16
10	16.2300	30.53	AVG	1.01	-10.00	0.47	42.01	50.00	-7.99
11	23.1300	37.66	QP	1.34	-10.00	0.64	49.64	60.00	-10.36
12	23.1300	32.64	AVG	1.34	-10.00	0.64	44.62	50.00	-5.38

Test Mode:	Normal Working (Notebook)
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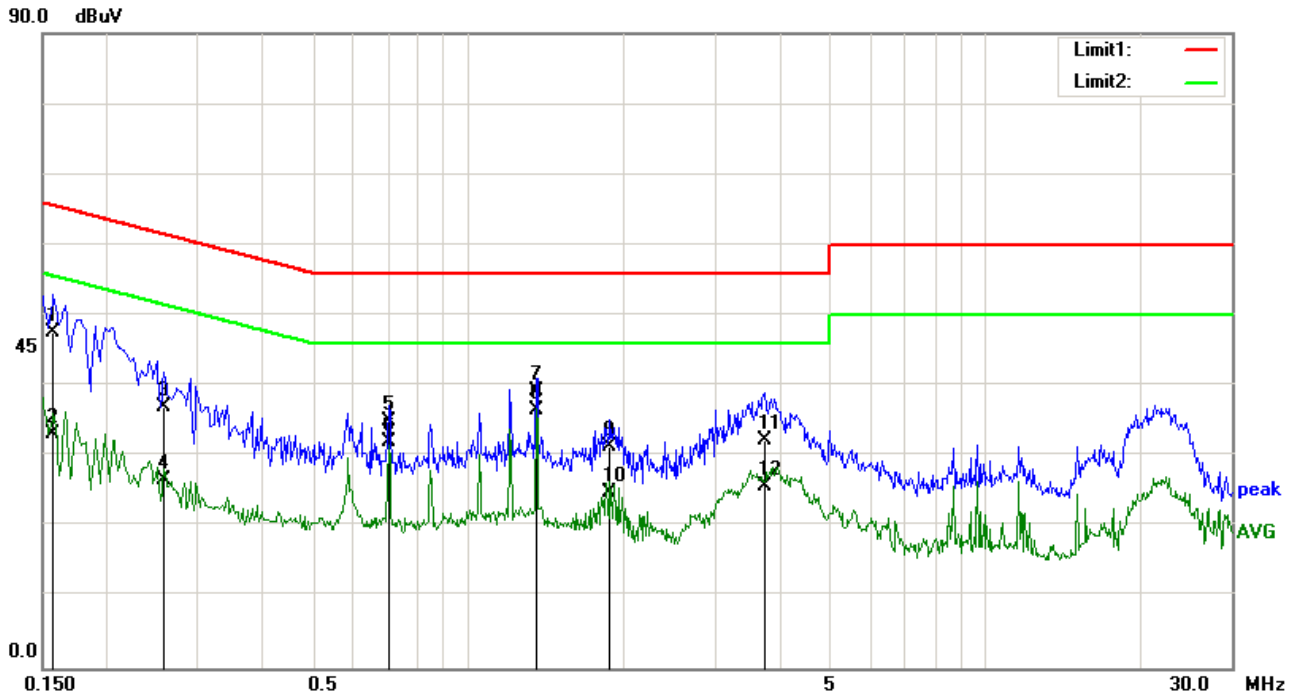


Test Data

Phase Line Plot at 230Vac, 60Hz

No.	Frequency (MHz)	Reading (dBuV)	Detector	Lisn/Isn (dB)	Ps_Lmt (dB)	Cab_L (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.1540	37.03	QP	0.10	-10.00	0.35	47.48	65.78	-18.30
2	0.1540	24.37	AVG	0.10	-10.00	0.35	34.82	55.78	-20.96
3	0.2540	27.43	QP	0.10	-10.00	0.20	37.73	61.63	-23.90
4	0.2540	16.40	AVG	0.10	-10.00	0.20	26.70	51.63	-24.93
5	1.2060	27.74	QP	0.14	-10.00	0.21	38.09	56.00	-17.91
6	1.2060	24.72	AVG	0.14	-10.00	0.21	35.07	46.00	-10.93
7	1.3580	29.76	QP	0.15	-10.00	0.21	40.12	56.00	-15.88
8	1.3580	26.75	AVG	0.15	-10.00	0.21	37.11	46.00	-8.89
9	1.9580	19.51	QP	0.16	-10.00	0.19	29.86	56.00	-26.14
10	1.9580	12.73	AVG	0.16	-10.00	0.19	23.08	46.00	-22.92
11	3.9020	24.46	QP	0.23	-10.00	0.26	34.95	56.00	-21.05
12	3.9020	17.69	AVG	0.23	-10.00	0.26	28.18	46.00	-17.82

Test Mode:	Normal Working (Notebook)
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Test Data

Phase Neutral Plot at 230Vac, 60Hz

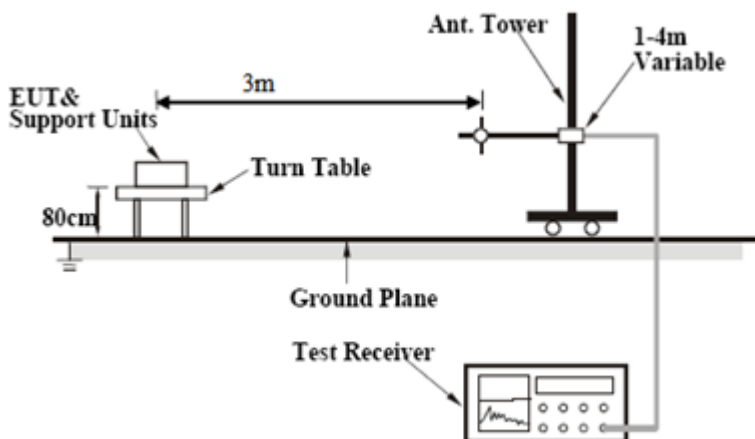
No.	Frequency (MHz)	Reading (dBuV)	Detector	Lisn/Isn (dB)	Ps_Lmt (dB)	Cab_L (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.1580	37.09	QP	0.11	-10.00	0.35	47.55	65.57	-18.02
2	0.1580	22.67	AVG	0.11	-10.00	0.35	33.13	55.57	-22.44
3	0.2580	26.72	QP	0.10	-10.00	0.20	37.02	61.50	-24.48
4	0.2580	16.43	AVG	0.10	-10.00	0.20	26.73	51.50	-24.77
5	0.7020	24.72	QP	0.12	-10.00	0.20	35.04	56.00	-20.96
6	0.7020	21.67	AVG	0.12	-10.00	0.20	31.99	46.00	-14.01
7	1.3580	28.92	QP	0.14	-10.00	0.21	39.27	56.00	-16.73
8	1.3580	26.15	AVG	0.14	-10.00	0.21	36.50	46.00	-9.50
9	1.8860	21.08	QP	0.17	-10.00	0.19	31.44	56.00	-24.56
10	1.8860	14.42	AVG	0.17	-10.00	0.19	24.78	46.00	-21.22
11	3.7540	21.76	QP	0.23	-10.00	0.25	32.24	56.00	-23.76
12	3.7540	15.30	AVG	0.23	-10.00	0.25	25.78	46.00	-20.22

6.2 Radiated Emissions

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	July 04,2017
Tested By :	Peter Wei

Requirement(s):

Spec	Item	Requirement	Applicable										
47CFR§15.10 7(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	☒										
		Class A Limit											
		<table><tr><th>Frequency range (MHz)</th><th>Field Strength (μV/m)</th></tr><tr><td>30 – 88</td><td>90</td></tr><tr><td>88 – 216</td><td>150</td></tr><tr><td>216 – 960</td><td>210</td></tr><tr><td>Above 960</td><td>300</td></tr></table>		Frequency range (MHz)	Field Strength (μV/m)	30 – 88	90	88 – 216	150	216 – 960	210	Above 960	300
		Frequency range (MHz)		Field Strength (μV/m)									
		30 – 88		90									
		88 – 216		150									
		216 – 960		210									
		Above 960		300									
		Class B Limit											
		<table><tr><th>Frequency range (MHz)</th><th>Field Strength (μV/m)</th></tr><tr><td>30 – 88</td><td>100</td></tr><tr><td>88 – 216</td><td>150</td></tr><tr><td>216 – 960</td><td>200</td></tr><tr><td>Above 960</td><td>500</td></tr></table>		Frequency range (MHz)	Field Strength (μV/m)	30 – 88	100	88 – 216	150	216 – 960	200	Above 960	500
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	- 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 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: - Vertical or horizontal polarisation (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. - For emission frequencies measured below and above 1GHz, set the spectrum analyzer on a 100kHz and 1MHz resolution bandwidth respectively for each frequency measured. - 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 (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 (°)

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

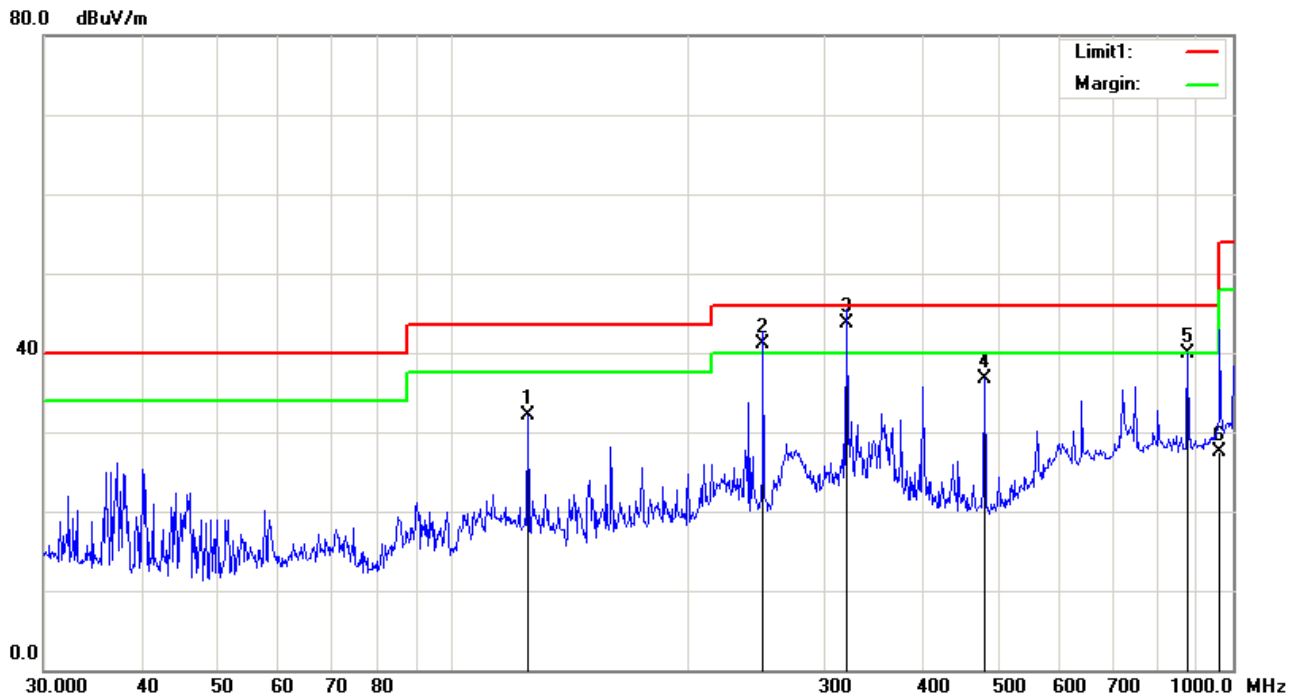
Degree = Turn table degree

Calculation Formula:

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

Test Mode:	Normal Working(Adapter)
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Below 1GHz



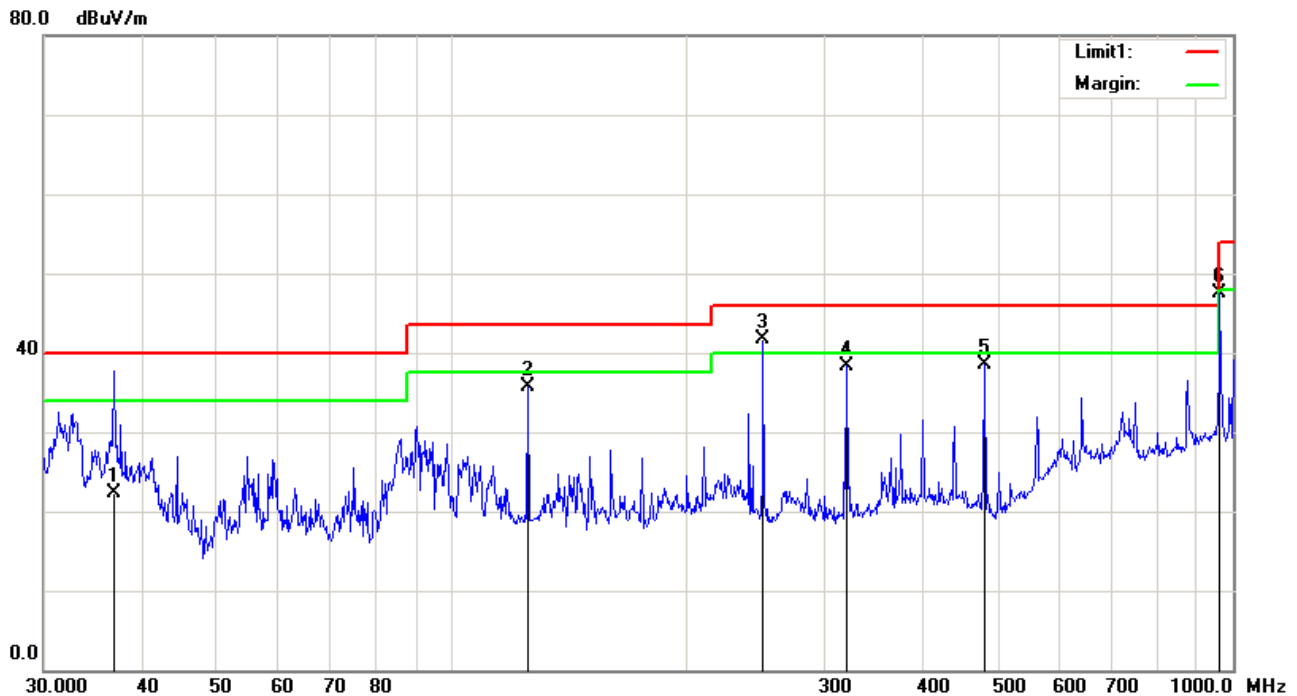
Test Data

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	125.0066	61.47	peak	15.72	46.93	1.82	32.08	43.50	-11.42	200	196
2	250.3012	71.22	QP	15.16	47.74	2.51	41.15	46.00	-4.85	100	112
3	319.9370	72.86	QP	16.72	48.68	2.86	43.76	46.00	-2.24	100	269
4	480.5276	66.41	peak	16.00	49.25	3.49	36.65	46.00	-9.35	100	220
5	875.2470	58.34	peak	22.77	46.00	4.78	39.89	46.00	-6.11	100	157
6	962.1623	44.64	QP	24.19	46.29	4.98	27.52	54.00	-26.48	100	116

Test Mode:	Normal Working(Adapter)
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Below 1GHz

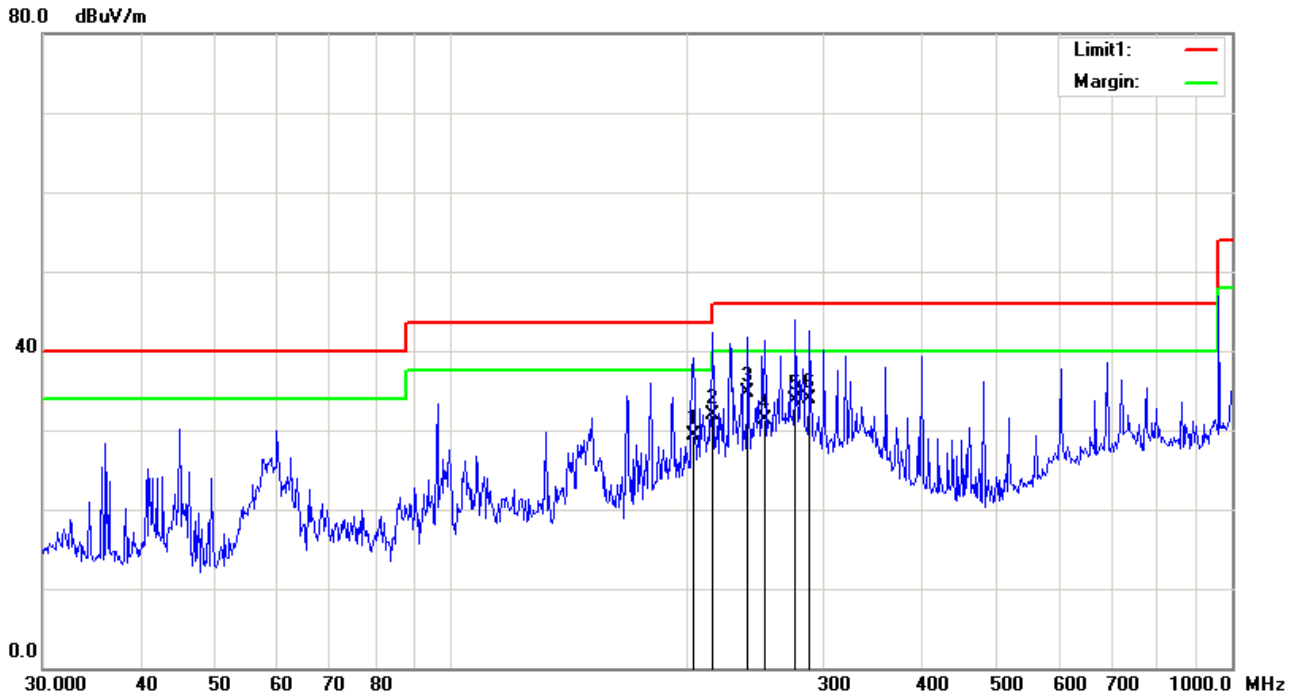


Vertical Polarity Plot @3m

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	36.8953	49.48	QP	17.59	45.66	0.99	22.40	40.00	-17.60	100	152
2	125.0066	64.75	peak	16.11	46.93	1.82	35.75	43.50	-7.75	100	183
3	250.3012	72.10	QP	14.90	47.74	2.51	41.77	46.00	-4.23	100	154
4	319.9370	68.67	peak	15.36	48.68	2.86	38.21	46.00	-7.79	100	134
5	480.5276	68.53	peak	15.65	49.25	3.49	38.42	46.00	-7.58	100	250
6	962.1623	65.26	peak	23.64	46.29	4.98	47.59	54.00	-6.41	100	199

Test Mode:	Normal Working(Notebook)
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Below 1GHz



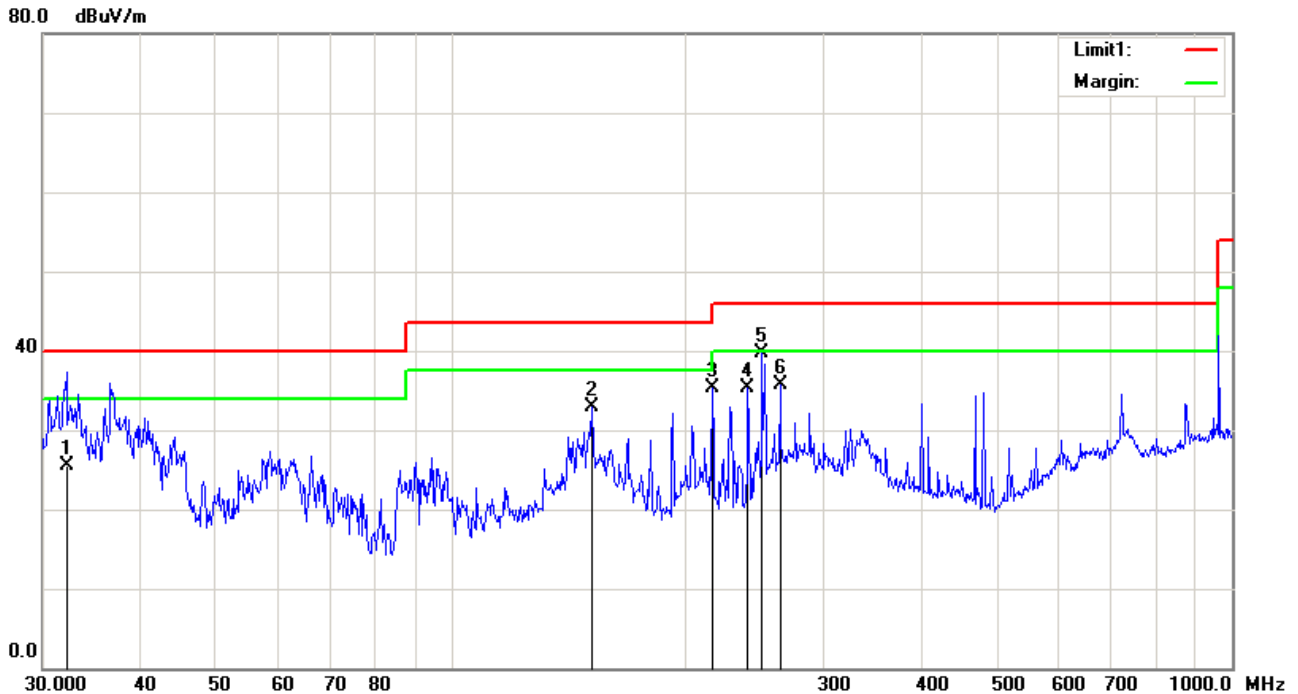
Test Data

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	204.2377	61.02	QP	13.54	47.44	2.28	29.40	43.50	-14.10	100	157
2	216.0240	63.39	QP	13.95	47.72	2.34	31.96	46.00	-14.04	100	124
3	239.9873	64.71	QP	14.79	47.33	2.46	34.63	46.00	-11.37	100	133
4	252.0627	61.37	QP	15.22	47.81	2.52	31.30	46.00	-14.70	100	319
5	276.1236	63.35	QP	16.06	48.40	2.65	33.66	46.00	-12.34	100	33
6	287.9904	63.09	QP	16.48	48.38	2.71	33.90	46.00	-12.10	100	16

Test Mode:	Normal Working(Notebook)
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Below 1GHz



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	32.1795	49.95	QP	20.33	45.66	0.91	25.53	40.00	-14.47	100	305
2	151.5972	64.81	peak	13.88	47.88	2.09	32.90	43.50	-10.60	100	241
3	216.0240	65.86	peak	14.87	47.72	2.34	35.35	46.00	-10.65	100	154
4	239.9873	65.22	peak	14.89	47.33	2.46	35.24	46.00	-10.76	200	163
5	250.3012	70.03	peak	14.90	47.74	2.51	39.70	46.00	-6.30	100	121
6	263.8190	66.31	peak	14.91	48.19	2.59	35.62	46.00	-10.38	100	164

Test Mode:	Normal Working(Adapter)
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Above 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	1085.000	63.03	peak	24.25	53.42	2.60	36.46	74.00	-37.54	100	24
2	1275.000	62.93	peak	24.59	51.79	2.83	38.56	74.00	-35.44	100	26
3	1330.000	62.53	peak	24.69	51.32	2.87	38.77	74.00	-35.23	200	205
4	1530.000	61.26	peak	25.13	50.00	3.54	39.93	74.00	-34.07	200	214
5	1760.000	61.58	peak	26.09	51.10	4.00	40.57	74.00	-33.43	100	36
6	1840.000	62.52	peak	26.43	51.48	4.00	41.47	74.00	-32.53	100	27

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	1065.000	62.97	peak	24.22	53.59	2.57	36.17	74.00	-37.83	200	32
2	1175.000	63.05	peak	24.41	52.65	2.73	37.54	74.00	-36.46	100	196
3	1320.000	61.78	peak	24.68	51.40	2.86	37.92	74.00	-36.08	200	12
4	1490.000	61.66	peak	24.98	49.95	3.33	40.02	74.00	-33.98	100	203
5	1660.000	62.21	peak	25.67	50.62	3.96	41.22	74.00	-32.78	100	217
6	1855.000	62.40	peak	26.49	51.55	4.00	41.34	74.00	-32.66	100	229

Test Mode:	Normal Working(Notebook)
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Above 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	1085.000	62.07	peak	24.25	53.42	2.60	35.50	74.00	-38.50	100	22
2	1150.000	63.02	peak	24.37	52.86	2.70	37.23	74.00	-36.77	100	23
3	1300.000	62.63	peak	24.64	51.58	2.84	38.53	74.00	-35.47	200	369
4	1445.000	61.95	peak	24.90	50.33	3.12	39.64	74.00	-34.36	200	324
5	1520.000	61.75	peak	25.08	49.96	3.48	40.35	74.00	-33.65	200	214
6	1785.000	61.52	peak	26.20	51.22	4.01	40.51	74.00	-33.49	100	19

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	1080.000	62.66	peak	24.24	53.46	2.60	36.04	74.00	-37.96	100	301
2	1235.000	62.81	peak	24.52	52.13	2.80	38.00	74.00	-36.00	100	129
3	1365.000	61.87	peak	24.76	51.02	2.89	38.50	74.00	-35.50	100	247
4	1470.000	61.31	peak	24.95	50.12	3.23	39.37	74.00	-34.63	200	21
5	1595.000	61.51	peak	25.40	50.31	3.91	40.51	74.00	-33.49	200	22
6	1785.000	60.89	peak	26.20	51.22	4.01	39.88	74.00	-34.12	200	19

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
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	☒
INFOMW Antenna (1 ~18GHz)	JXTXLB-10180	J2031081120092	10/08/2016	10/07/2017	☒
SIEMIC EZ_EMC Radiated Emissions software	Ver.ICP-03A1	N/A	N/A	N/A	☒
Radiated Emissions					
Spectrum Analyzer	N9010A	MY47191130	05/03/2017	05/02/2018	N/A
R&S EMI Receiver	ESPI3	101216	05/03/2017	05/02/2018	☒
Antenna (30MHz~6GHz)	JB6	A121411	04/15/2017	04/14/2018	☒
EMCO Horn Antenna (1 ~18GHz)	3115	N/A	11/15/2016	11/14/2017	N/A
INFOMW Antenna (1 ~18GHz)	JXTXLB-10180	J2031081120092	10/09/2016	10/08/2017	N/A
Horn Antenna (18~40GHz)	AH-840	101013	04/22/2017	04/21/2018	N/A
Microwave Pre-Amp (18~40GHz)	PA-840	181250	05/29/2017	05/28/2018	N/A
Hp Pre-Amplifier	8447F	1937A01160	10/27/2016	10/26/2017	☒
Agilent Pre-Amplifier	8449B	N/A	10/27/2016	10/26/2017	N/A
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 of EUT – Front View



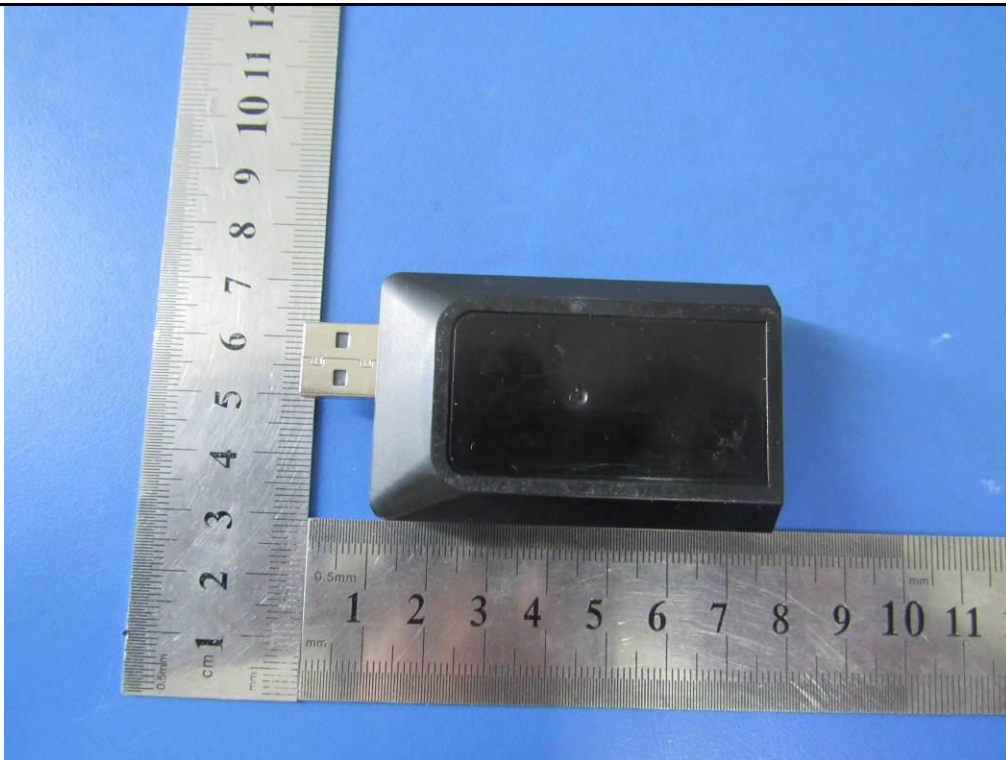
Front View of EUT



Rear View of EUT



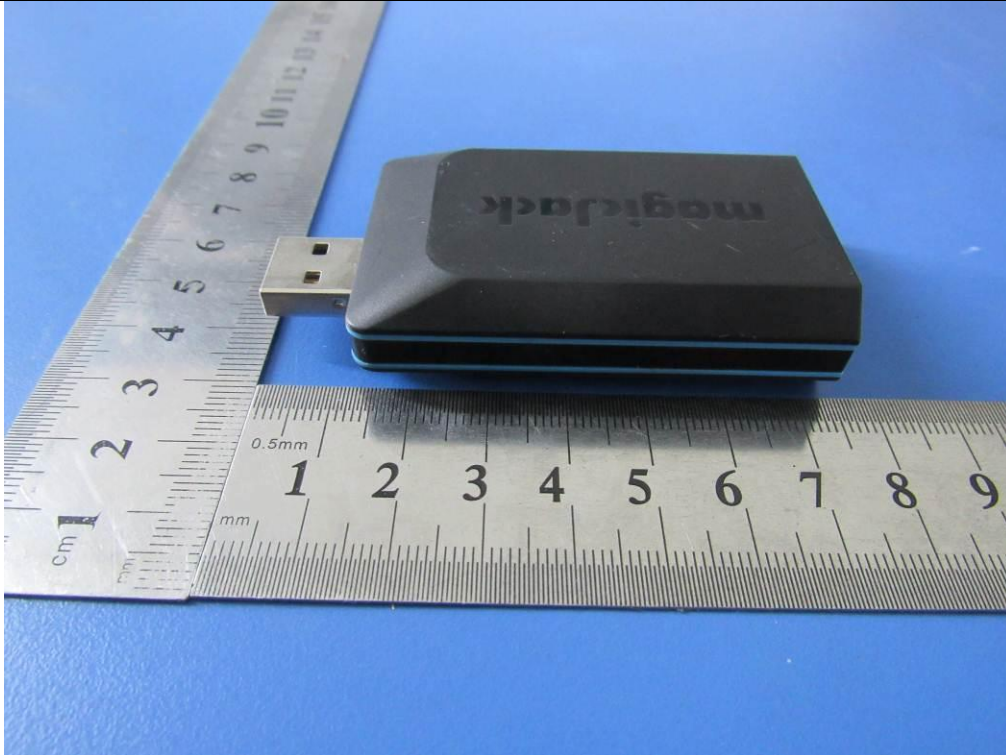
Top View of EUT



Bottom View of EUT



Left View of EUT



Right View of EUT

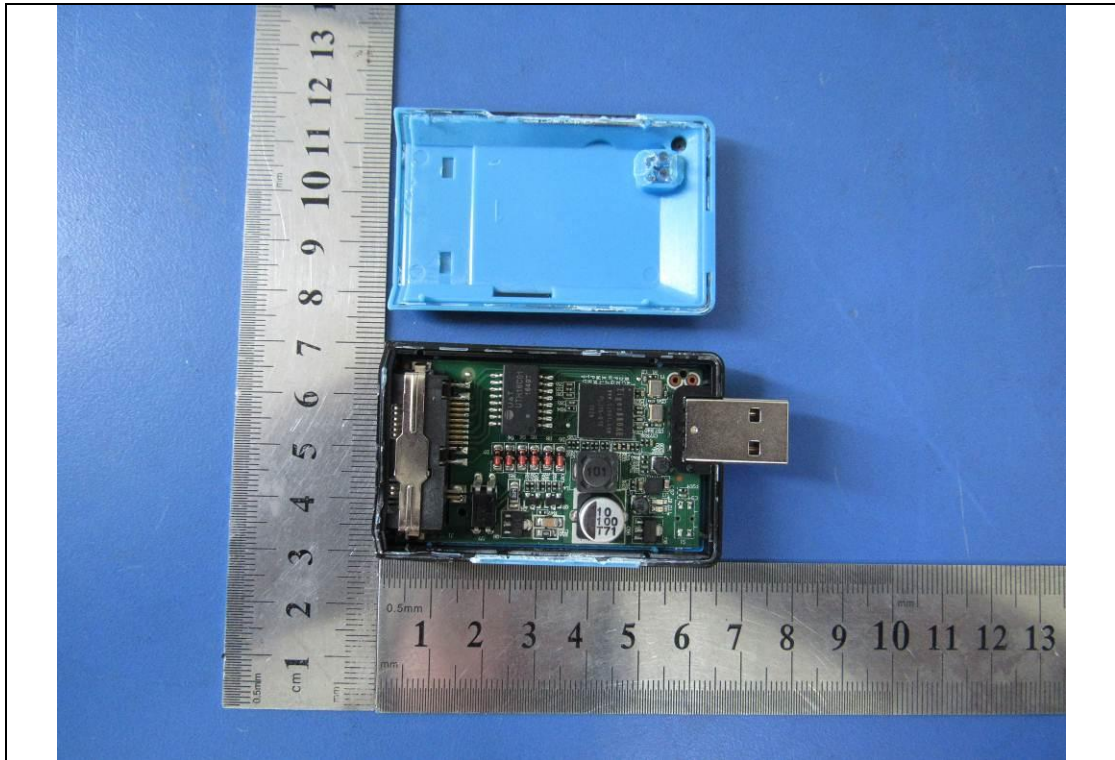


Adapter of EUT

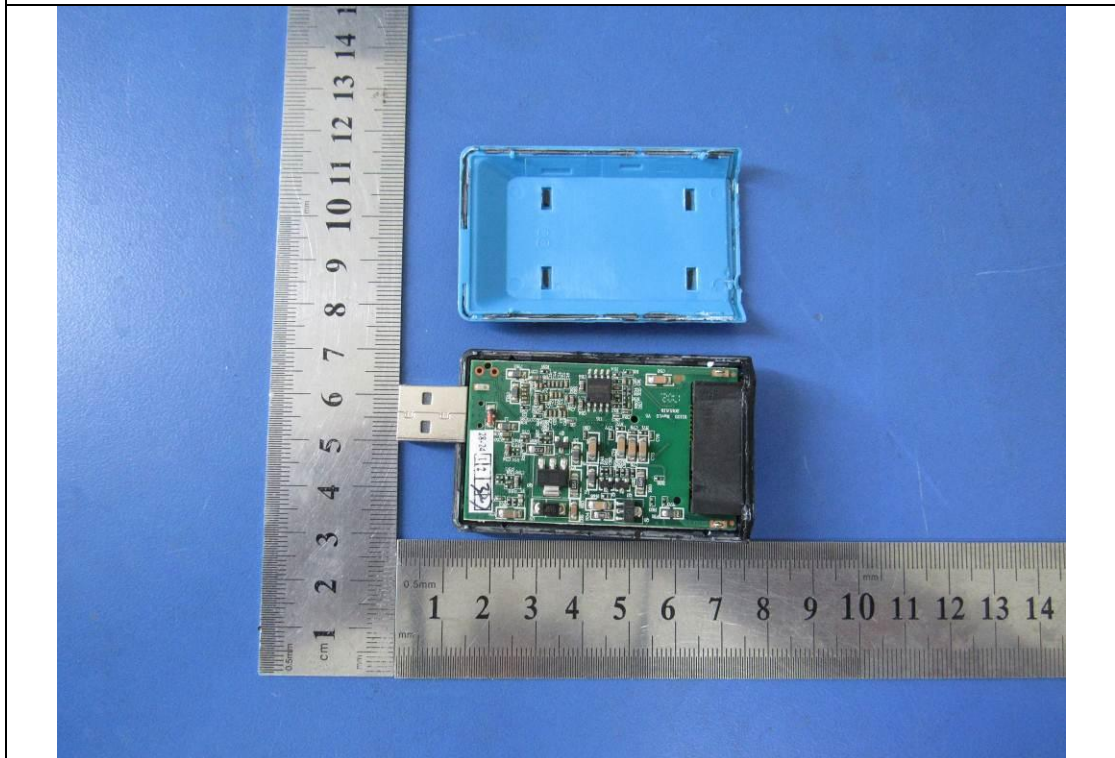


Cable of EUT

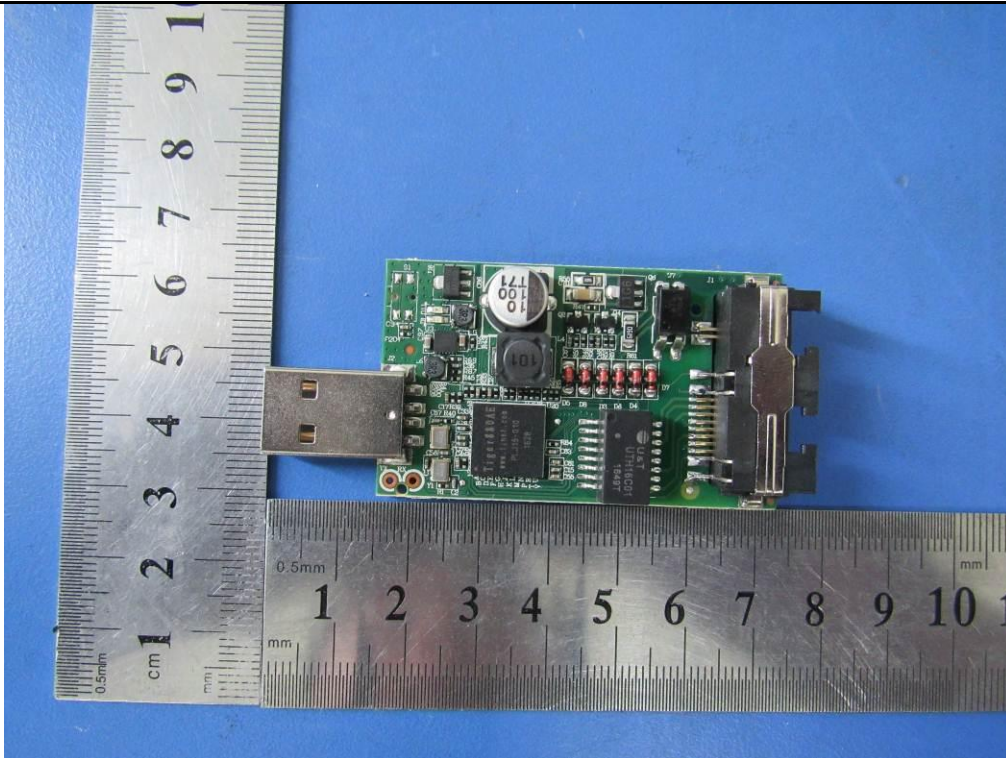
Annex B.ii. Photograph EUT Internal Photo



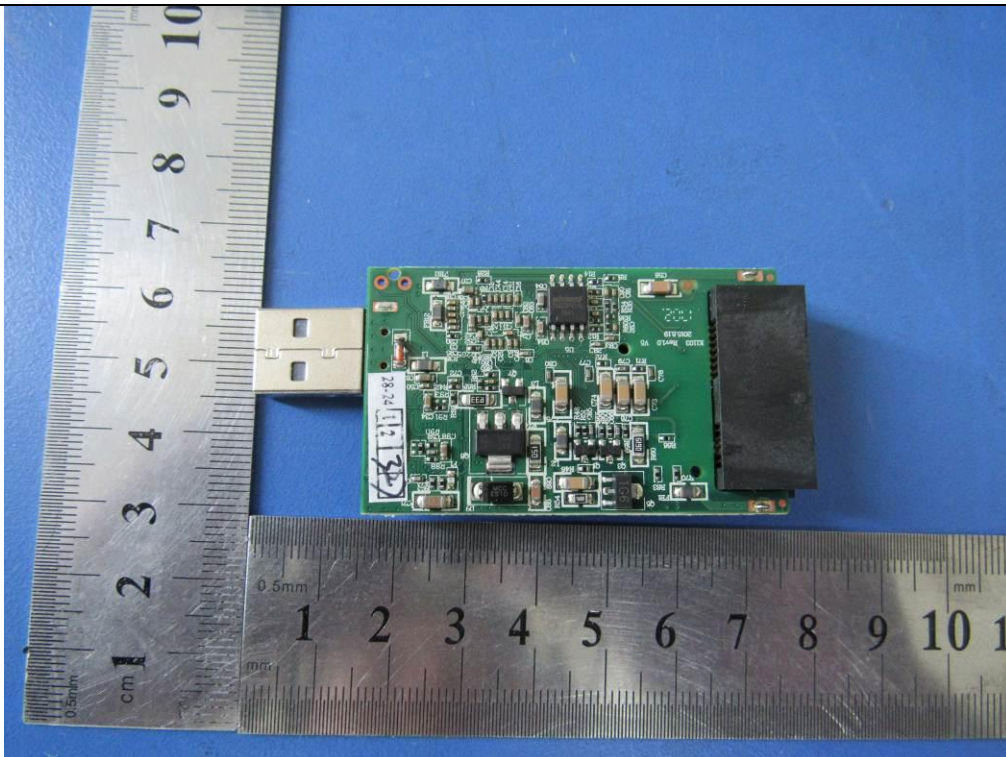
Uncover- Front View



Uncover- Rear View



PCB – Front View



PCB – Rear View

Annex B.iii. Photograph: Test Setup Photo



Conducted Emissions Setup Front View(Adapter)



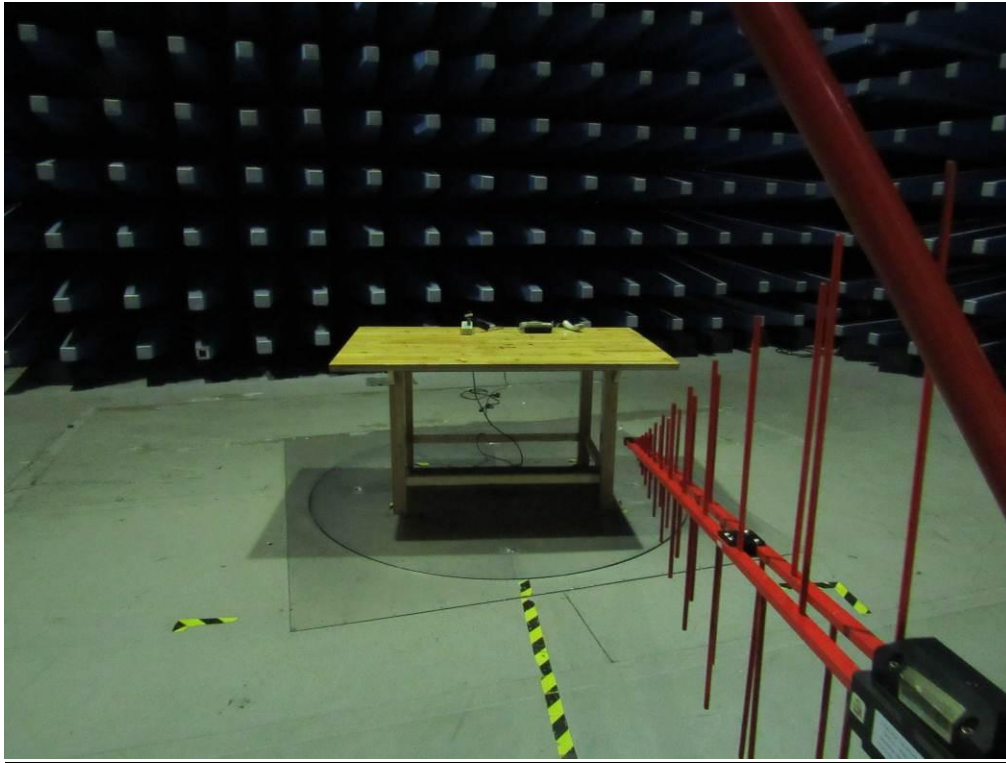
Conducted Emissions Setup Front View(Notebook)



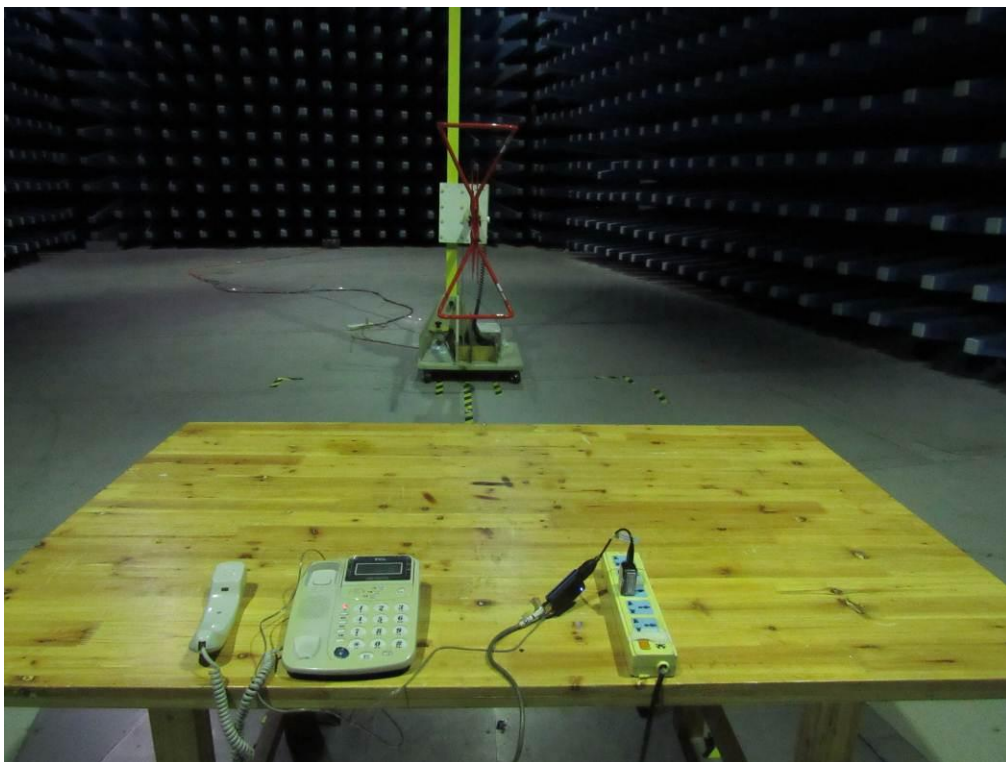
Conducted Emissions Setup Side View (Adapter)



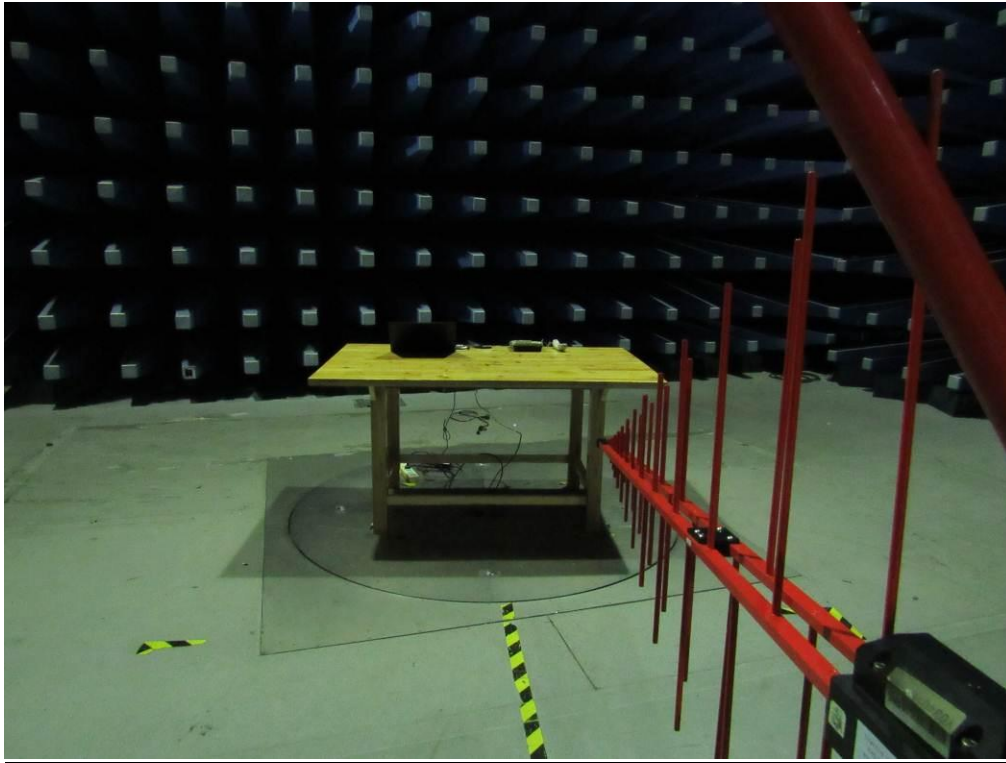
Conducted Emissions Setup Side View(Notebook)



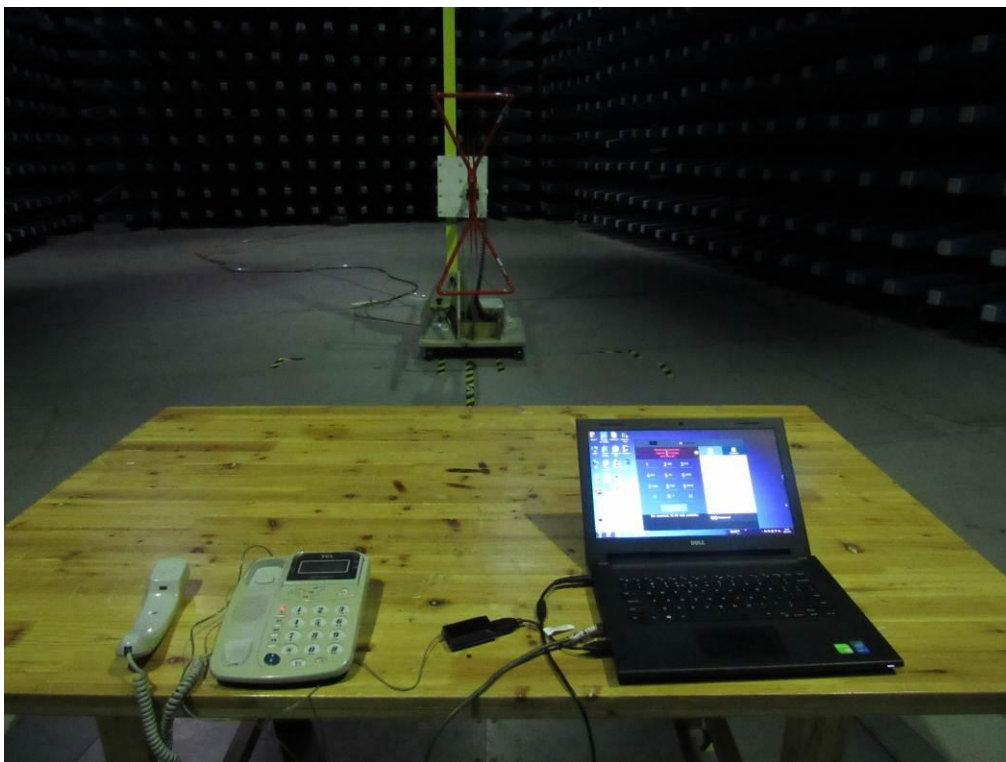
Radiated Emissions Setup Below 1GHz Front View (Adapter)



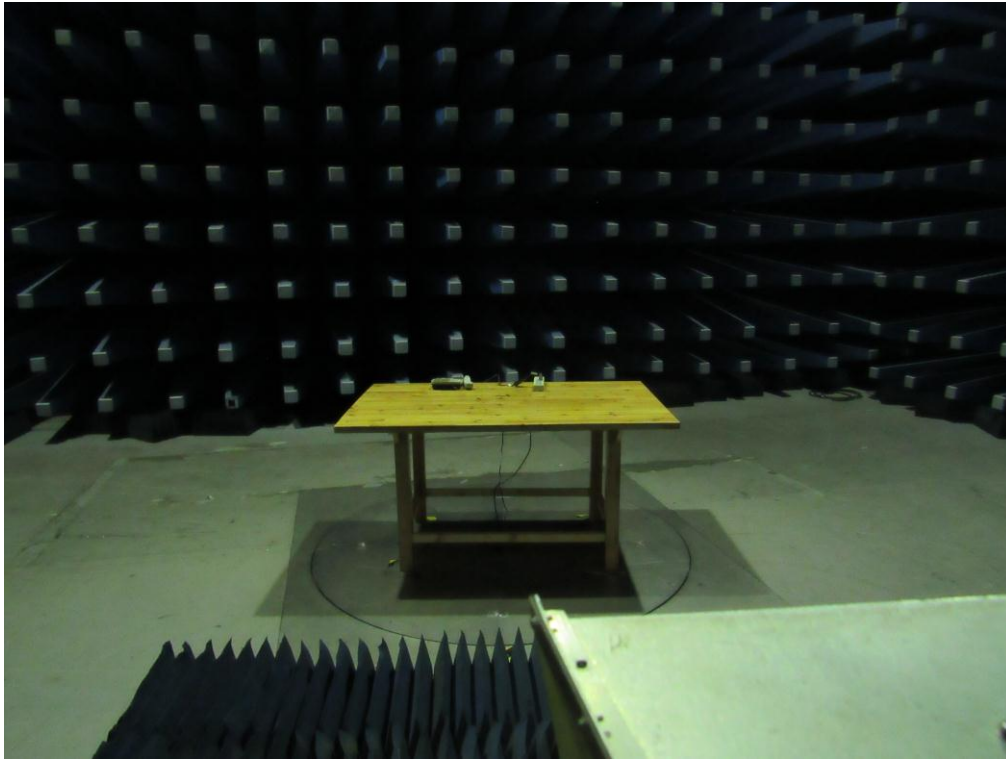
Radiated Emissions Setup Below 1GHz Rear View (Adapter)



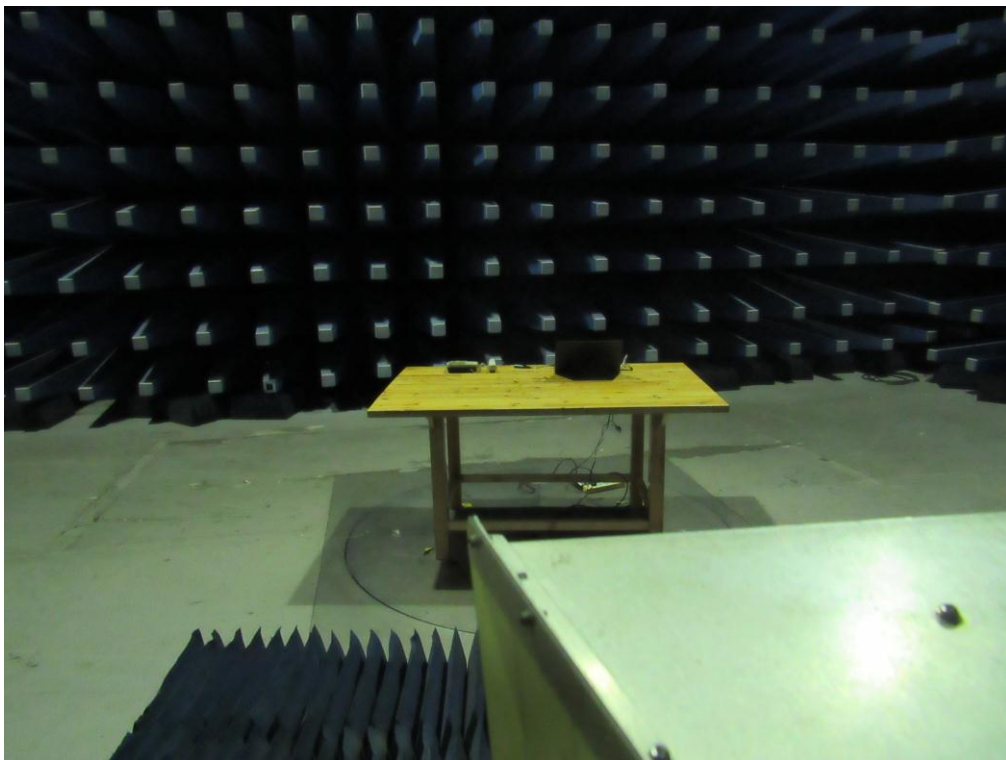
Radiated Emissions Setup Below 1GHz Front View (Adapter)



Radiated Emissions Setup Below 1GHz Rear View (Notebook)



Radiated Emissions Setup Above 1GHz Rear View (Adapter)

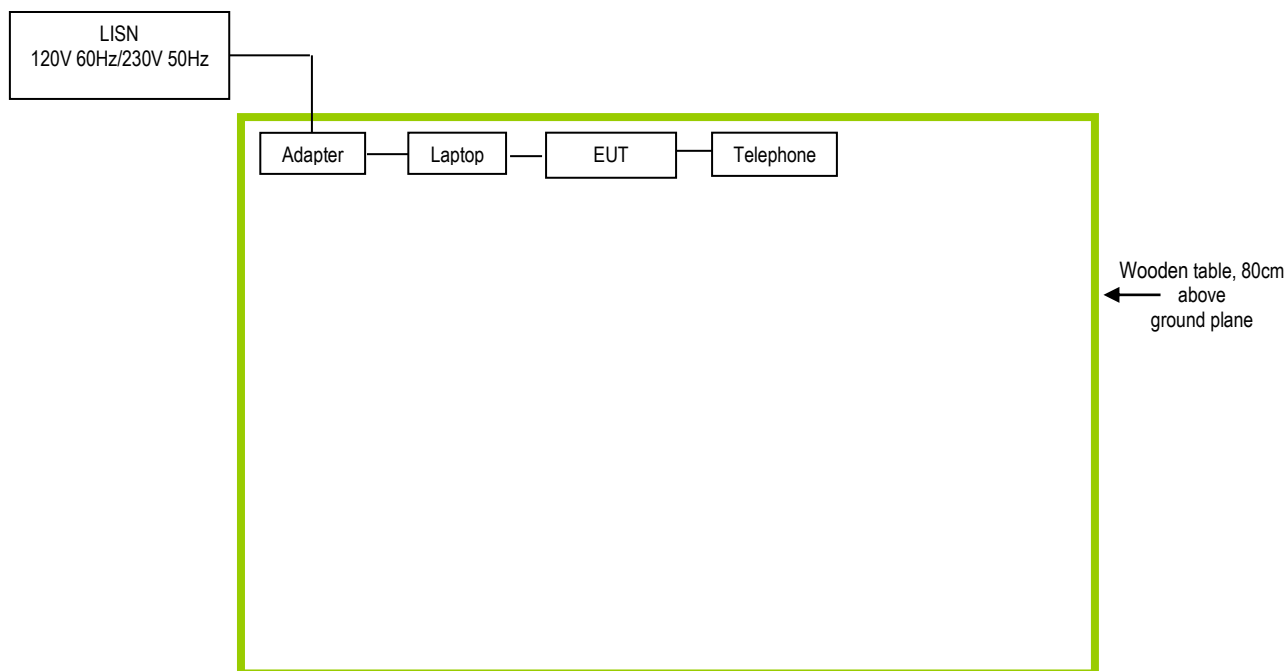


Radiated Emissions Setup Above 1GHz Rear View (Notebook)

Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

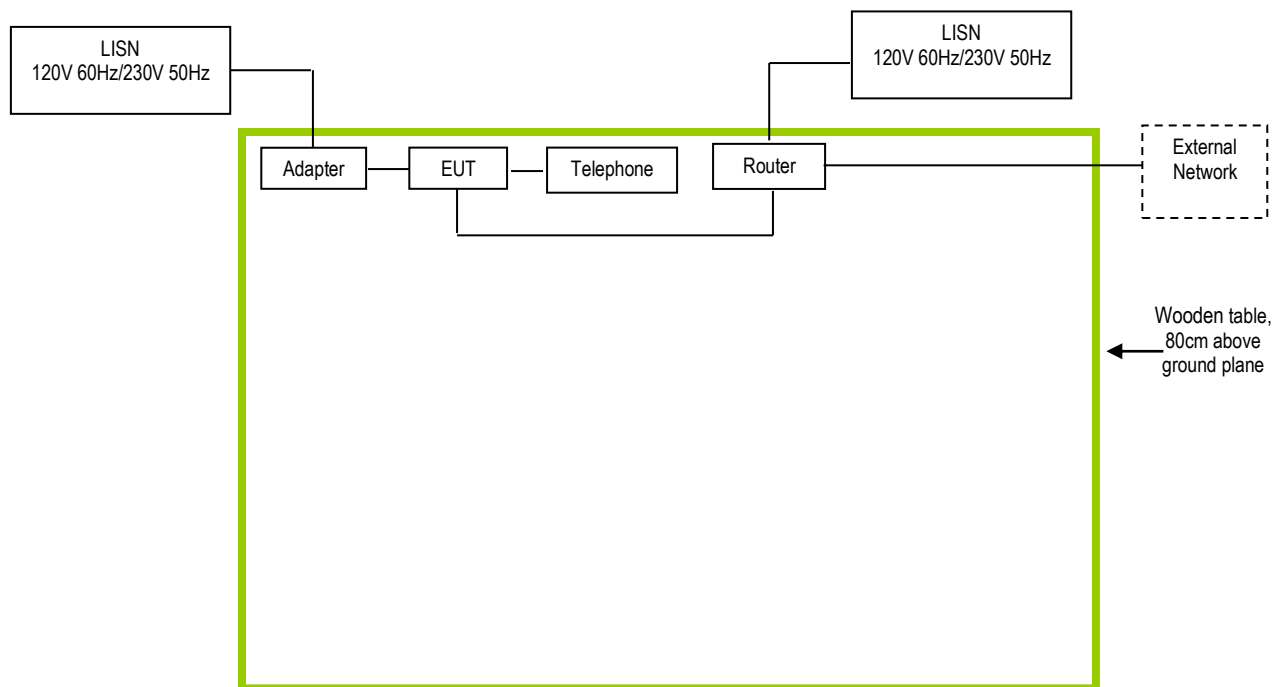
Block Configuration Diagram for Conducted Emissions

Notebook



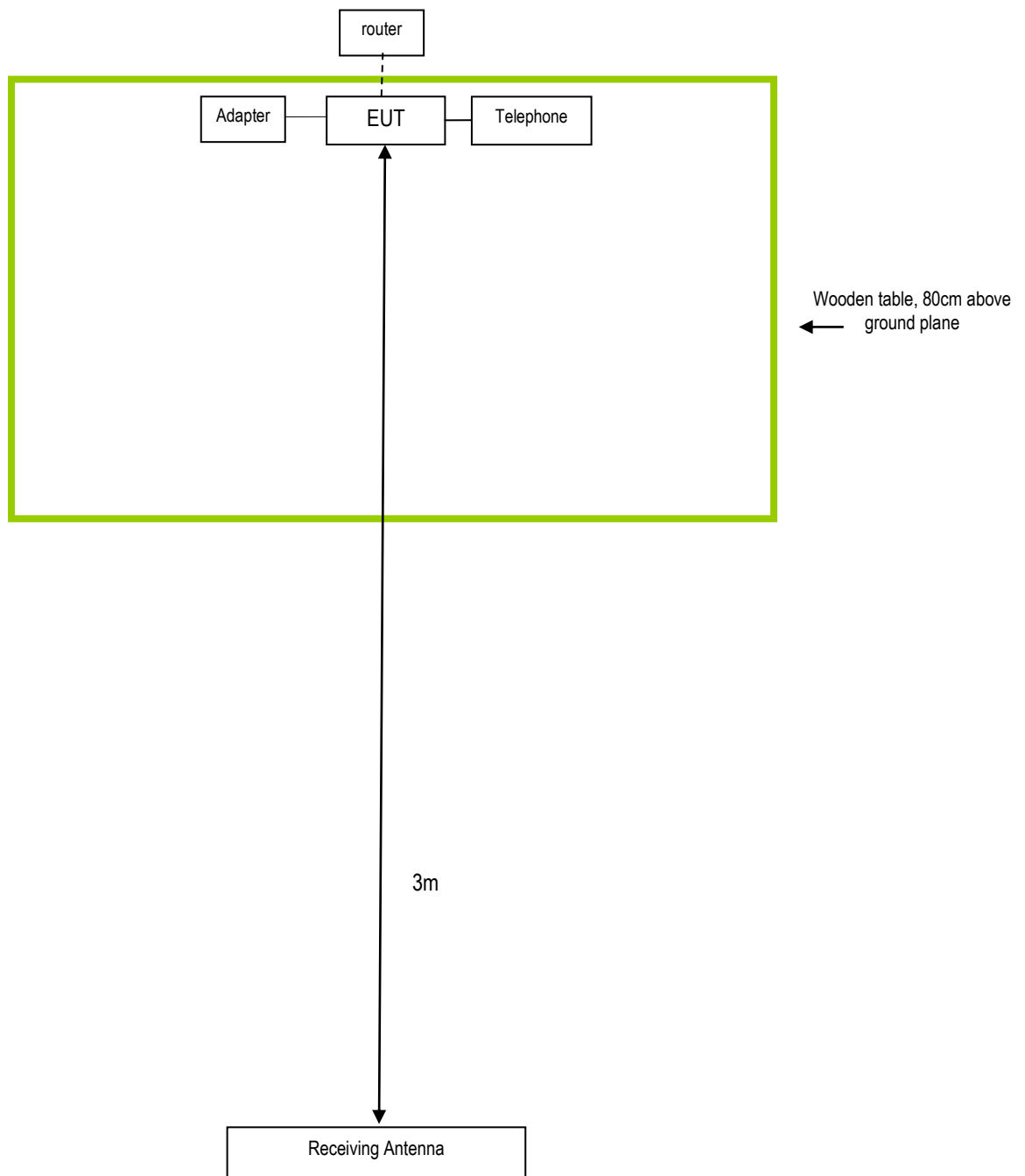
Block Configuration Diagram for Conducted Emissions

Adapter



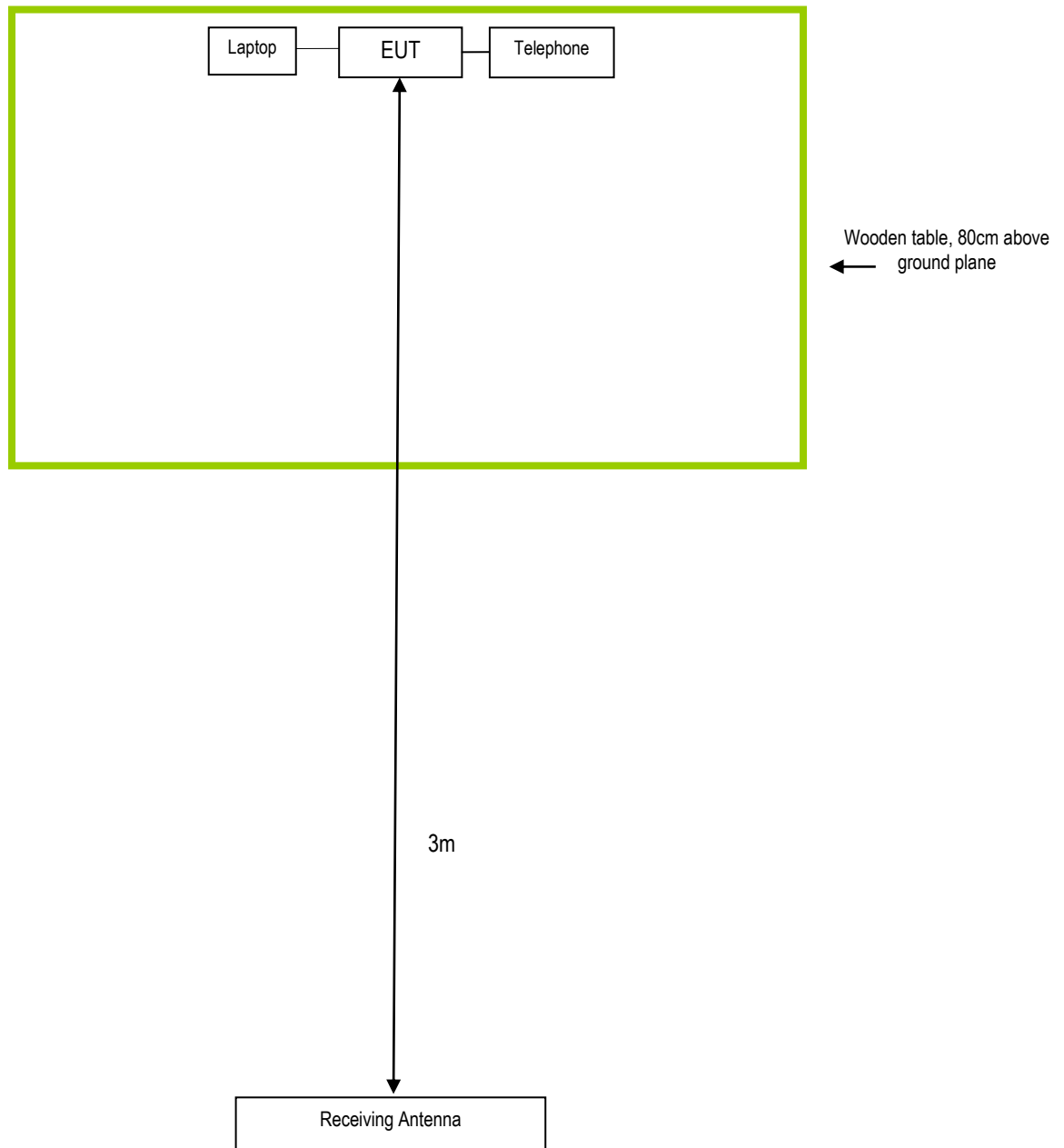
Block Configuration Diagram for Radiated Emissions

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
TCL	Telephone	HCD868(17B)TSD	N/A
TP-LINK	Router	TL-R402+	N/A
Dell	Laptop	DSCM	N/A

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

Please see Attachment

Annex E. DECLARATION OF SIMILARITY

YMAX Communications Corp.

Statement

Model number: K1103、 K1103E、 K1103S、 K1103T

We hereby state that these models are identical in interior structure, electrical circuits and components, and just model names different.

Your assistance on this matter is highly appreciated.

Sincerely,

Signature:



Client's name / title : Oliver Shih/ Engineer.

Contact information / address :

YMAX Communications Corp.

5700 Georgia Avenue, West Palm Beach, Florida, USA