China

FCC - TEST REPORT

Report Number	:	60.790.15.002.01	Date of Issue	:	March 23, 2015
Model	:	ENTERPRISE LITE			
Product Type	:	ENTERPRISE TABLET LITE			
Applicant	:	Merchandising Tech. Inc.			
Address	:	Room 1101 & 1103, 11/F, Premier Center, 20 Cheung Shun Street, Lai Chi Kok, Kowloon, Hong Kong			
Production Facility	:	Hualun Technology Co., Ltd			
Address	:	3F No. 82-4 Dongshun St. Shulin Dist new Taipei City 238 Taiwan			
Test Result	:	■Positive ☐Negative			
Total pages including Appendices	:	38			

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1 Table of Contents

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2 Description of the Equipment Under Test

Description of the Equipment Under Test

Product:	ENTERPRISE TABLET LITE
Model no.:	ENTERPRISE LITE
FCC ID:	2AA2X185-2462
Rated Voltage:	100-240VAC for AC/DC adaptor – Model: EXA0703YJ Input: 100-240VAC 50-60Hz, 1.5A Output: 24VDC, 2.71A
Frequency:	13.56MHz
Description of the EUT:	The EUT is considered as wireless device, the frequency range is 13.56MHz. More details of EUT technical specification please refer to the User's Manual.

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3 Summary of Test Standards

Test Standards
FCC Part 15 Subpart C Federal Communications Commission, PART 15 – Radio Frequency Devices, Subpart C – Intentional Radiators

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4 Details about the Test Laboratory

Site 1

Company name: TÜV SÜD Hong Kong Ltd.
3/F, West Wing, Lakeside 2,
10 Science Park West Avenue,
Science Park, Shatin, Hong Kong

Site 2

Company name: Hong Kong Productivity Council
LG1, HKPC Building,
78 Tat Chee Avenue,
Kowloon, Hong Kong
FCC Registration Number: 90656

Emission Tests	
Test Item	Test Site
FCC Part 15.207	
Conducted Emission Test	Site 2
FCC Part 15.209	
Radiated Emission Test	Site 2
FCC Part 15.225	
Operation within the band 13.110 – 14.010 MHz	Site 2

China

4.1. Test Equipment Site List

Radiated emission Test – Site 2

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Test Receiver	R & S	ESU26	100050	05-Jan-16
Bi-conical Antenna	R & S	HK116	100242	05-May-15
Log Periodic Antenna	R & S	HL223	841516/020	06-May-15
Coaxial cable 50ohm	Rosenberger	RTK081-05S-05S-10m	LA2-001-10M / 001	15-Nov-15
Microwave amplifer 0.5-26.5GHz, 25dB gain	HP	83017A	3123A00437	03-Oct-15
High Pass Filter (cutoff freq. =1000MHz)	Trilithic	23042	9829213	28-Oct-15
Horn Antenna	EMCO	3115	9002-3351	11-May-15
Active Loop Antenna	EMCO	6502	9107-2651	21-Jun-15

Conducted Emission Test – Site 2

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESCI	100427	28-Feb-16
Coaxial Cable	N/A	N/A	N/A	03-June-15
LISN	Rohde & Schwarz	ENV 216	100432	19-May-15

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4.2. Measurement System Uncertainty

Measurement System Uncertainty Emissions

System Measurement Uncertainty		
Items		**Extended Uncertainty**
Radiated Emissions	Level accuracy 30MHz to 1GHz 1GHz to 25GHz	±3.19 dB
Conducted Emissions	Level accuracy 9 kHz to 30 MHz	±2.48 dB

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5 Summary of Test Results

Emission Tests				
FCC Part 15.207				
Test Condition	Pages	Test Result		
		Pass	Fail	N/A
Conducted Emission Test	10-11	☒	☐	☐
FCC Part 15.209				
Radiated Emission Test	12-17	☒	☐	☐
FCC Part 15.225				
Operation within the band 13.110 – 14.010 MHz	18	☒	☐	☐

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6 General Remarks

Remarks

Test supporting Equipment: i-pad mini – Serial number: DLXNFHX1G5V3

SUMMARY:

- All tests according to the regulations cited on page 5 were

■ - Performed

☐ - **Not** Performed

- The Equipment Under Test

■ - **Fulfills** the general approval requirements.

☐ - **Does not** fulfill the general approval requirements.

Sample Received Date: January 13, 2015

Testing Start Date: January 14, 2015

Testing End Date: March 4, 2015

- TÜV SÜD HONG KONG LTD. -

Reviewed by: Prepared by:

TSENG Chi Kit CHAN Kwong Ngai

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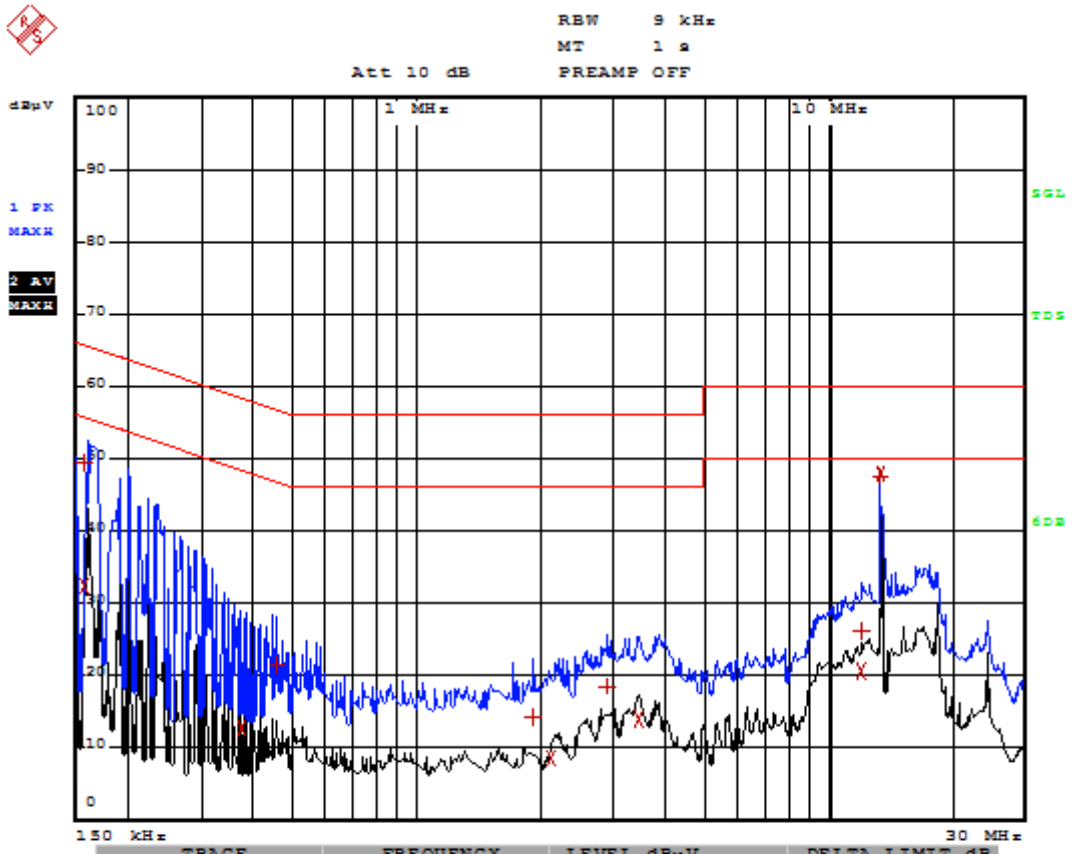
7 Emission Test Results

7.1 Conducted Emission

EUT: ENTERPRISE LITE
Op Condition: Normal Working
Test Specification: FCC 15.207, AC Mains, L Line
Comment: 120VAC, 60Hz

Test Result
☒ Passed
☐ Not Passed



TRACE		FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
1	Quasi Peak	158 kHz	49.58	-15.97
2	Average	158 kHz	32.40	-23.16
2	Average	374 kHz	12.61	-35.79
1	Quasi Peak	458 kHz	21.47	-35.25
1	Quasi Peak	1.93 MHz	14.26	-41.73
2	Average	2.118 MHz	8.44	-37.56
1	Quasi Peak	2.898 MHz	18.44	-37.55
2	Average	3.482 MHz	14.02	-31.98
1	Quasi Peak	12.11 MHz	26.07	-33.92
2	Average	12.11 MHz	20.70	-29.29
1	Quasi Peak	13.562 MHz	42.06	-17.94
2	Average	13.562 MHz	42.30	-7.70

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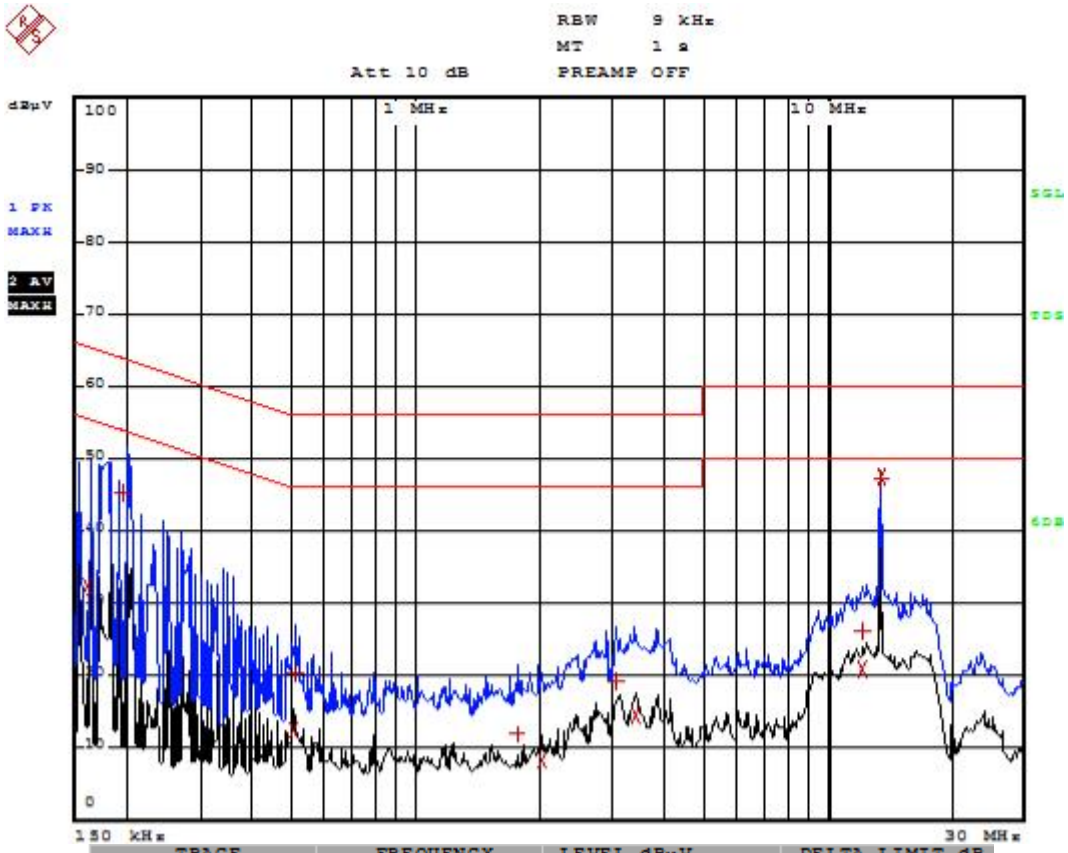
Conducted Emission

EUT:	ENTERPRISE LITE
Op Condition:	Normal Working
Test Specification:	FCC 15.207, AC Mains, N Line
Comment:	120VAC, 60Hz

Test Result
☒ Passed
☐ Not Passed



TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	162 kHz	32.31	-23.04
1 Quasi Peak	198 kHz	45.34	-18.35
2 Average	502 kHz	12.43	-33.57
1 Quasi Peak	510 kHz	20.40	-35.59
1 Quasi Peak	1.774 MHz	11.94	-44.05
2 Average	2.022 MHz	8.35	-37.64
1 Quasi Peak	3.054 MHz	19.40	-36.59
2 Average	3.458 MHz	14.47	-31.52
1 Quasi Peak	12.174 MHz	26.09	-33.90
2 Average	12.174 MHz	20.97	-29.02
1 Quasi Peak	13.562 MHz	39.53	-20.47
2 Average	13.562 MHz	39.72	-10.28

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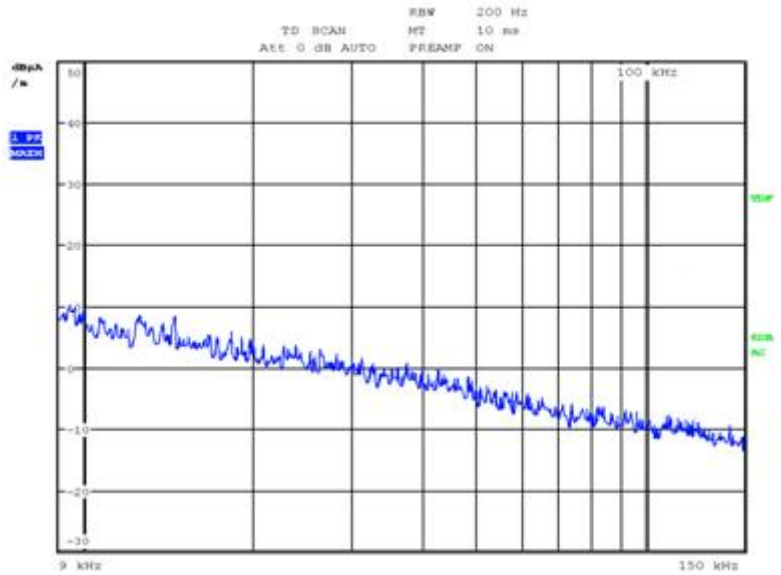
7.2 Radiated Emission

EUT:	ENTERPRISE LITE
Op Condition:	Normal Working
Test Specification:	FCC 15.209, Antenna: Face
Comment:	120VAC, 60Hz (Measured at 3m)

Test Result
☒ Passed
☐ Not Passed



Limit of 9 kHz to 490 kHz = 20 log (2400/F) uV/m @ 300m
= 48.519 dBuV/m to 13.800 dBuV/m @ 300m
= 88.519 dBuV/m to 53.842 dBuV/m @ 3m
= 37.019 dBuA/m to 2.342 dBuA/m @ 3m

Limit of 490 kHz to 1.705 MHz = 20 log (24000/F) uV/m @ 30m
= 33.800 dBuV/m to 22.969dBuV/m @ 30m
= 53.800 dBuV/m to 42.969 dBuV/m @ 3m
= 2.300 dBuA/m to -8.531 dBuA/m @ 3m

Limit of 1.705 MHz to 30 MHz = 30uV/m @ 30m
= 29.5dBuV/m @ 30m
= 49.5dBuV/m @ 3m
= -2.0 dBuA/m @ 3m

Where F = unwanted emission frequency in kHz

* For 13.56 MHz, it is not the subject to FCC 15.209; it is subject to FCC 15.225.

Frequency	QP	Limit	Margin
MHz	dBµA/m	dBµA/m	dB
0.010	+9.1	+37.019	-27.919
0.030	+0.5	+26.561	-26.061
0.100	-9.0	+16.104	-25.104

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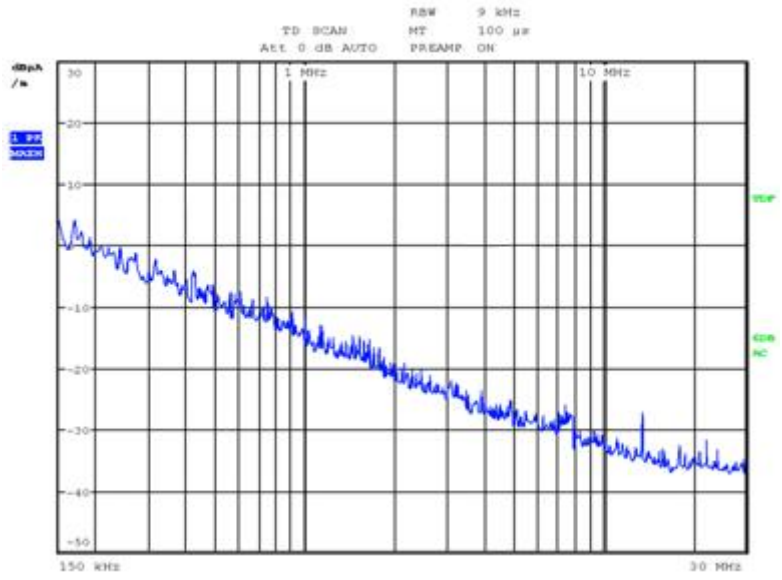
Radiated Emission

EUT:	ENTERPRISE LITE
Op Condition:	Normal Working
Test Specification:	FCC 15.209, Antenna: Face
Comment:	120VAC, 60Hz (Measured at 3m)

Test Result
☒ Passed
☐ Not Passed



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Limit of 490 kHz to 1.705 MHz = 20 log (24000/F) uV/m @ 30m
= 33.800 dBuV/m to 22.969dBuV/m @ 30m
= 53.800 dBuV/m to 42.969 dBuV/m @ 3m
= 2.300 dBuA/m to -8.531 dBuA/m @ 3m

Limit of 1.705 MHz to 30 MHz = 30uV/m @ 30m
= 29.5dBuV/m @ 30m
= 49.5dBuV/m @ 3m
= -2.0 dBuA/m @ 3m

Where F = unwanted emission frequency in kHz

* For 13.56 MHz, it is not the subject to FCC 15.209; it is subject to FCC 15.225.

Frequency MHz	QP dBµA/m	Limit dBµA/m	Margin dB
0.162	+2.0	+12.580	-10.580
0.490	-8.0	+2.300	-10.3
1.705	-14.2	-8.531	-5.669
13.560	-27.1	-2.0	-25.1
27.120	-33.0	-2.0	-31.0

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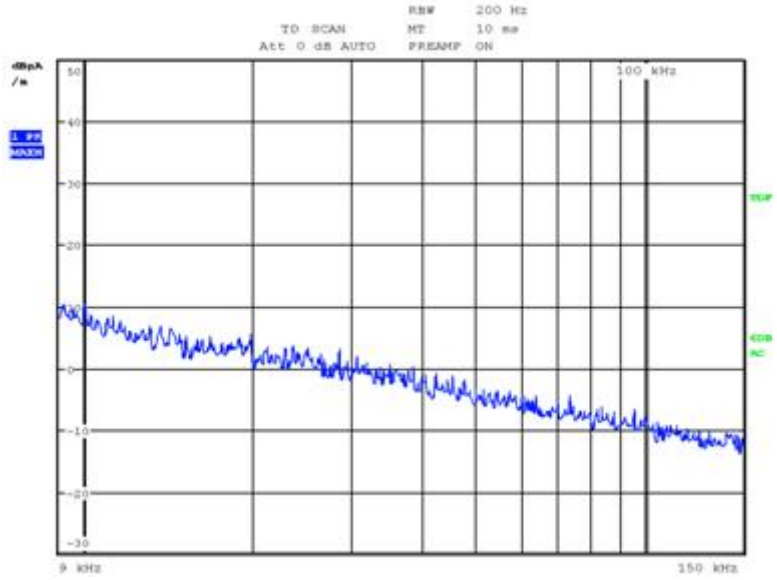
Radiated Emission

EUT:	ENTERPRISE LITE
Op Condition:	Normal Working
Test Specification:	FCC 15.209, Antenna: Side
Comment:	120VAC, 60Hz (Measured at 3m)

Test Result
☒ Passed
☐ Not Passed



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= 53.800 dBuV/m to 42.969 dBuV/m @ 3m
= 2.300 dBuA/m to -8.531 dBuA/m @ 3m

Limit of 1.705 MHz to 30 MHz = 30uV/m @ 30m
= 29.5dBuV/m @ 30m
= 49.5dBuV/m @ 3m
= -2.0 dBuA/m @ 3m

Where F = unwanted emission frequency in kHz

* For 13.56 MHz, it is not the subject to FCC 15.209; it is subject to FCC 15.225.

Frequency	QP	Limit	Margin
MHz	dBµA/m	dBµA/m	dB
0.010	+8.6	+37.019	-28.419
0.030	+0.7	+26.561	-25.861
0.100	-9.6	+16.104	-25.704

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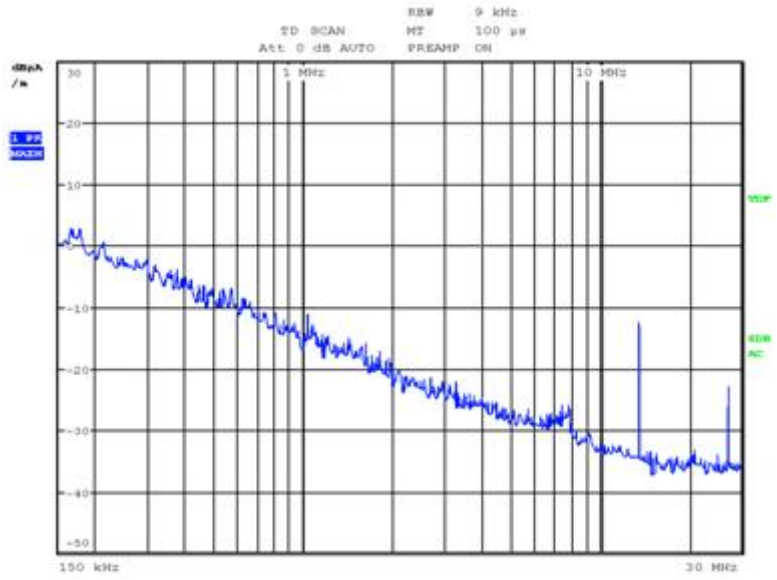
Radiated Emission

EUT:	ENTERPRISE LITE
Op Condition:	Normal Working
Test Specification:	FCC 15.209, Antenna: Side
Comment:	120VAC, 60Hz (Measured at 3m)

Test Result
☒ Passed
☐ Not Passed



Limit of 9 kHz to 490 kHz = 20 log (2400/F) uV/m @ 300m
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= 88.519 dBuV/m to 53.842 dBuV/m @ 3m
= 37.019 dBuA/m to 2.342 dBuA/m @ 3m

Limit of 490 kHz to 1.705 MHz = 20 log (24000/F) uV/m @ 30m
= 33.800 dBuV/m to 22.969dBuV/m @ 30m
= 53.800 dBuV/m to 42.969 dBuV/m @ 3m
= 2.300 dBuA/m to -8.531 dBuA/m @ 3m

Limit of 1.705 MHz to 30 MHz = 30uV/m @ 30m
= 29.5dBuV/m @ 30m
= 49.5dBuV/m @ 3m
= -2.0 dBuA/m @ 3m

Where F = unwanted emission frequency in kHz

* For 13.56 MHz, it is not the subject to FCC 15.209; it is subject to FCC 15.225.

Frequency MHz	QP dBµA/m	Limit dBµA/m	Margin dB
0.163	+1.3	+12.580	-11.280
0.490	-7.2	+2.300	-9.500
1.705	-15.2	-8.531	-6.669
13.560	-12.3	-2.0	-10.3
27.120	-22.7	-2.0	-20.7

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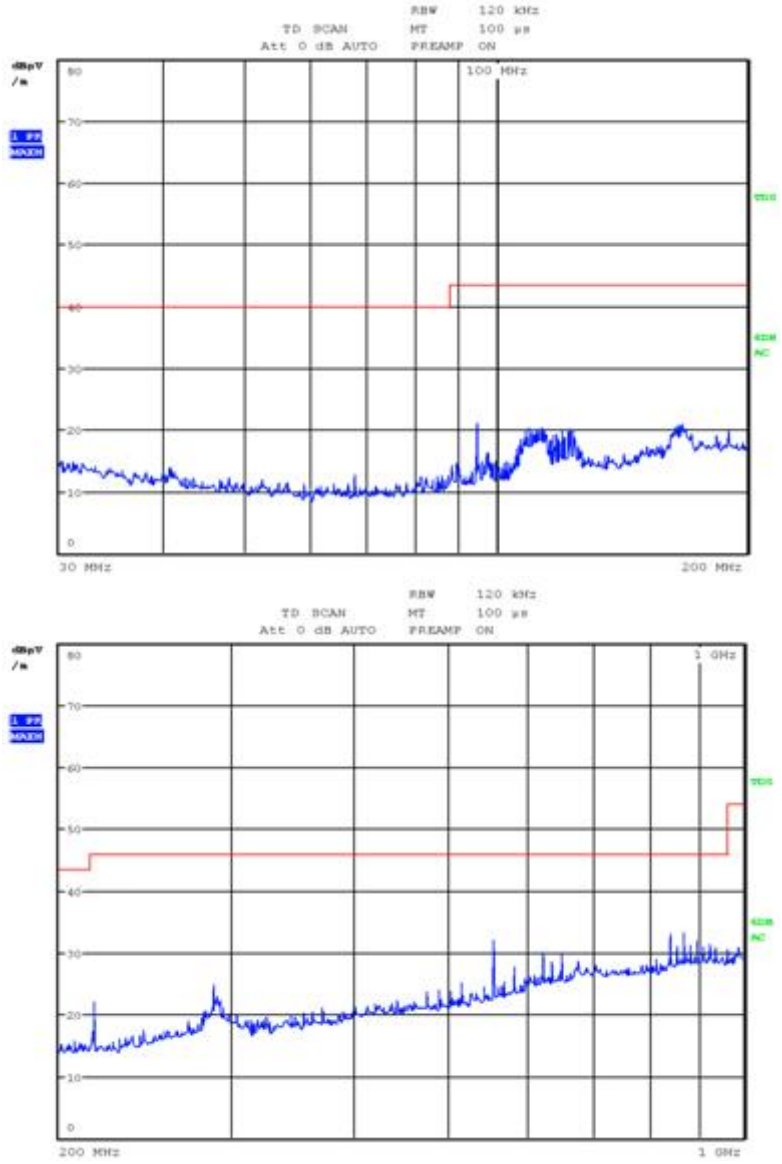
Radiated Emission

EUT:	ENTERPRISE LITE
Op Condition:	Normal Working
Test Specification:	FCC 15.209, Antenna: Horizontal
Comment:	120VAC, 60Hz

Test Result
☒ Passed
☐ Not Passed



Frequency MHz	QP dBµV/m	Limit dBµV/m	Margin dB
94.920	21.0	43.5	-22.5
167.070	20.9	43.5	-22.6
555.980	32.0	46.0	-14.0
867.890	33.1	46.0	-12.9

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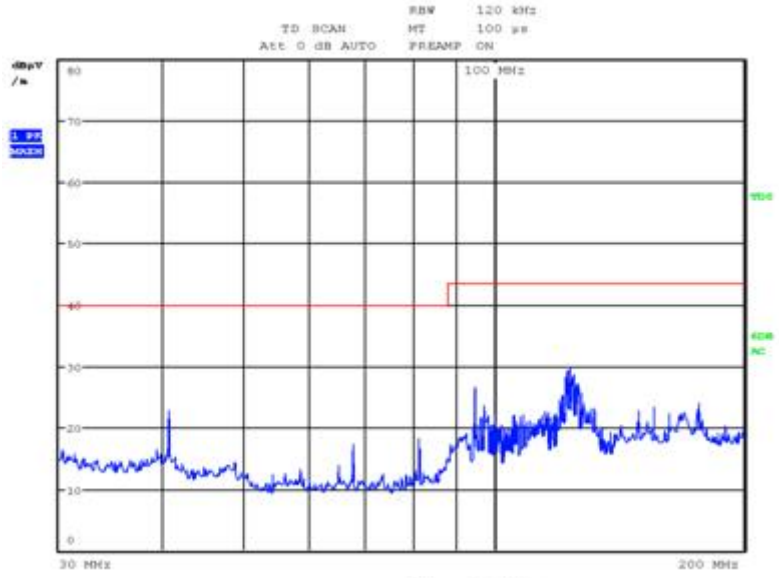
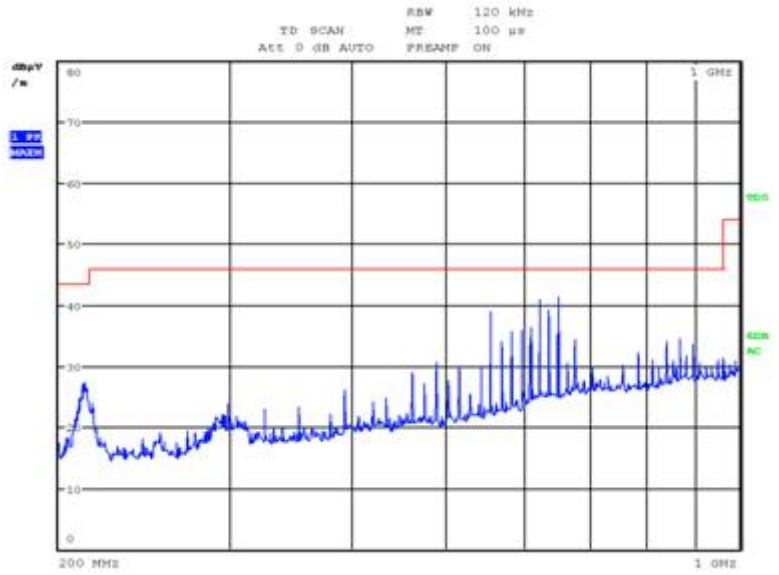
Radiated Emission

EUT:	ENTERPRISE LITE
Op Condition:	Normal Working
Test Specification:	FCC 15.209, Antenna: Vertical
Comment:	120VAC, 60Hz

Test Result
☒ Passed
☐ Not Passed





Frequency MHz	QP dBµV/m	Limit dBµV/m	Margin dB
94.920	26.6	43.5	-16.9
123.660	29.8	43.5	-13.7
623.780	40.9	46.0	-5.1
650.900	41.3	46.0	-4.7

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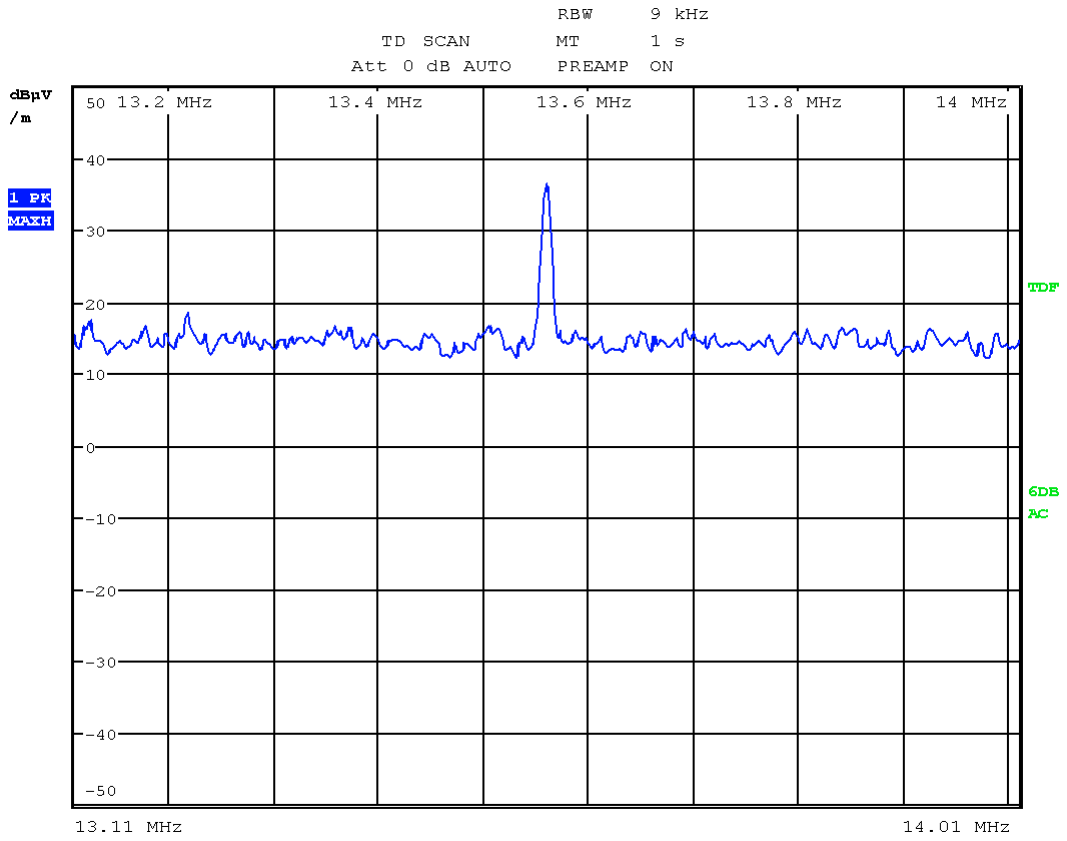
7.3 Operation within the band 13.110 – 14.010 MHz

EUT:	ENTERPRISE LITE
Op Condition:	Normal Working
Test Specification:	FCC 15.225
Comment:	120VAC, 60Hz (Measured at 3m)

Test Result
☒ Passed
☐ Not Passed



The field strength of any emission shall not exceed the following limits:
(a) 15.848 millivolts/m (84 dBµV/m) at 30 m, (104 dBuV/m) at 3 m, within the band 13.553-13.567 MHz.
(b) 334 microvolts/m (50.5 dBµV/m) at 30 m, (70.5 dBuV/m) at 3 m, within the bands 13.410-13.553 MHz and 13.567-13.710 MHz.
(c) 106 microvolts/m (40.5 dBµV/m) at 30 m, (60.5 dBuV/m) at 3 m, within the bands 13.110-13.410 MHz and 13.710-14.010 MHz.
(d) 30 microvolts/m (29.5 dBµV/m) at 30 m, (49.5 dBuV/m) at 3 m, outside the band 13.110-14.010 MHz.

Frequency	QP	Limit	Margin
MHz	dBµV/m	dBµV/m	dB
13.560	36.4	104	-67.6

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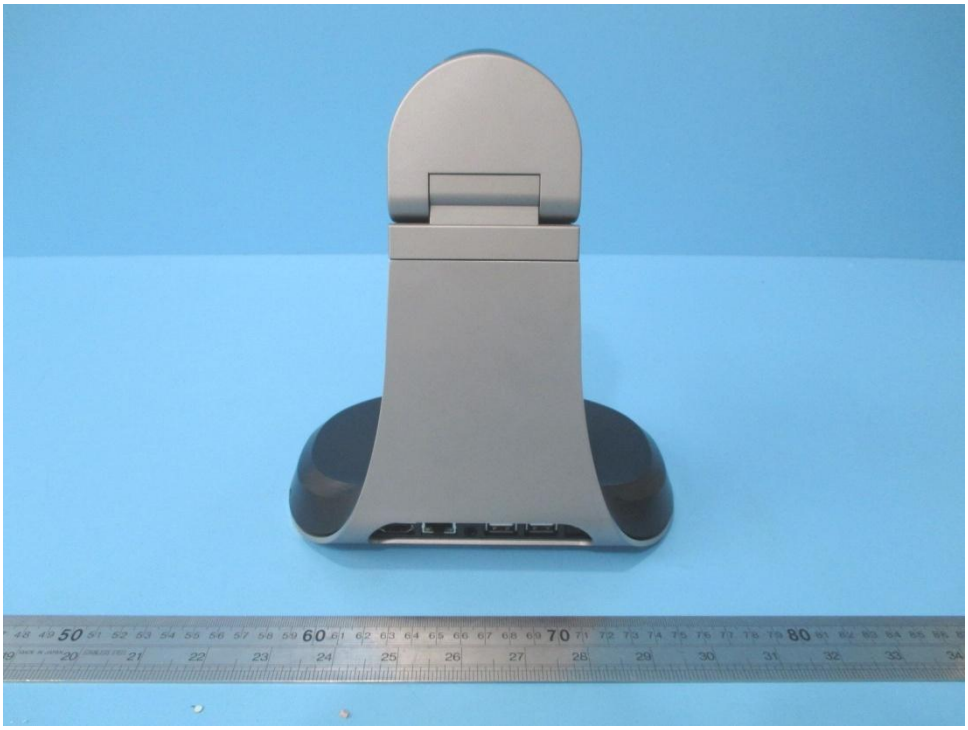
8 Appendix A - Photographs of EUT



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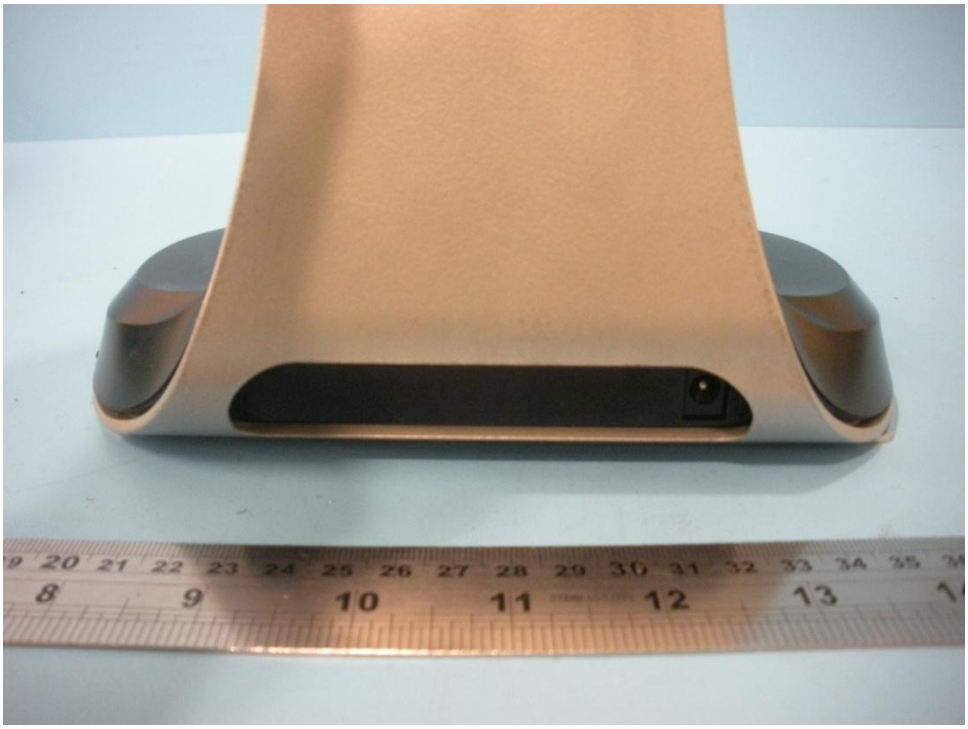
Appendix A



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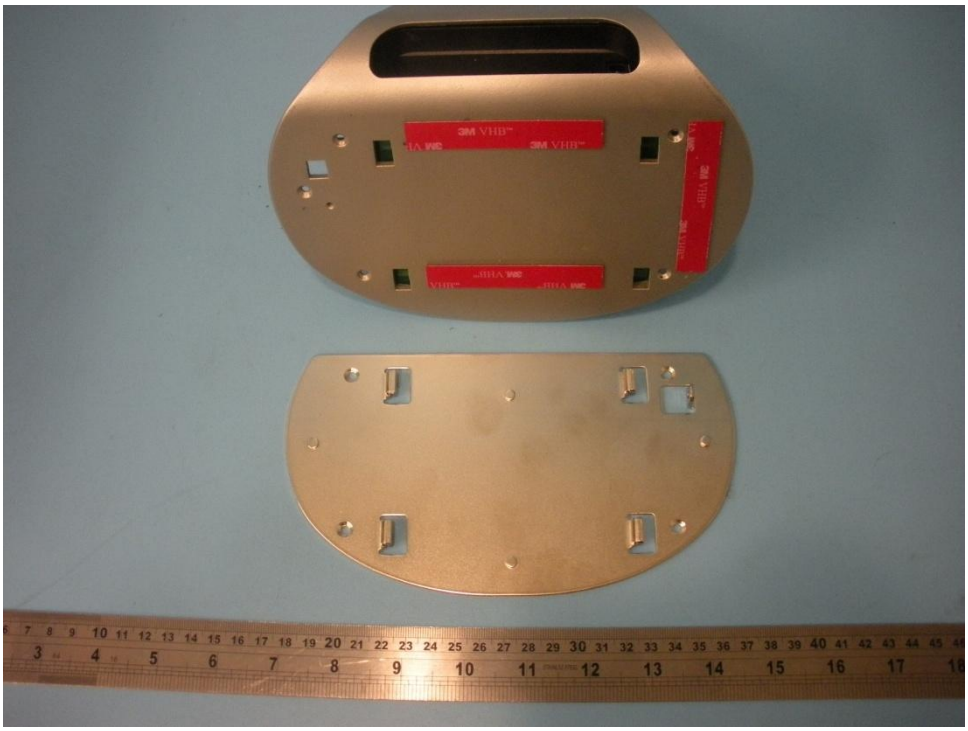
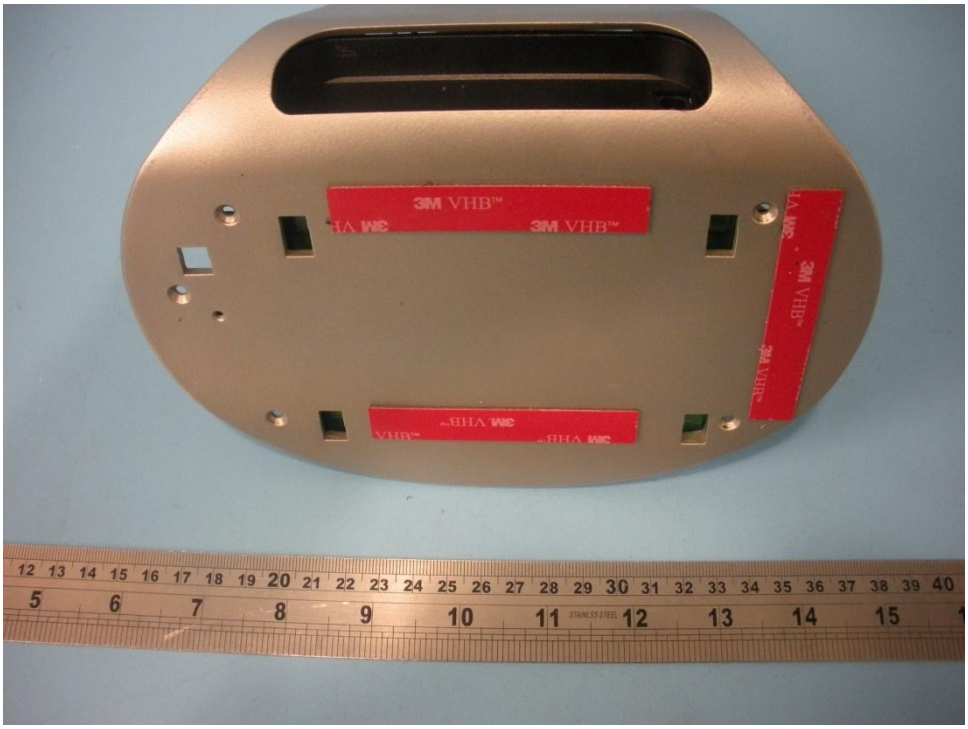
Appendix A





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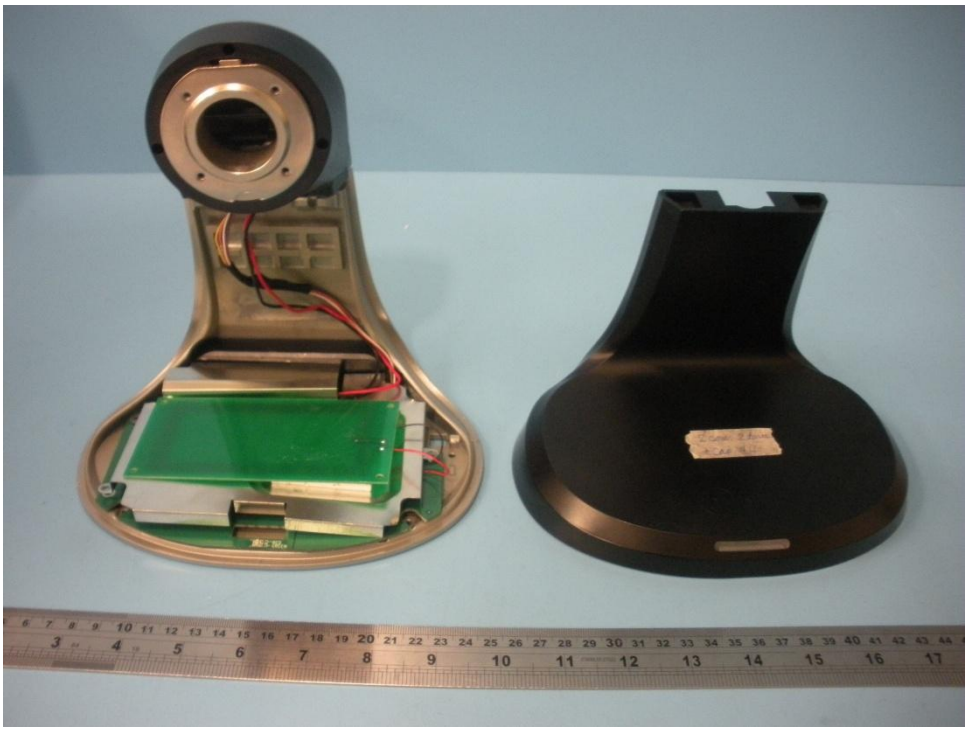
Appendix A



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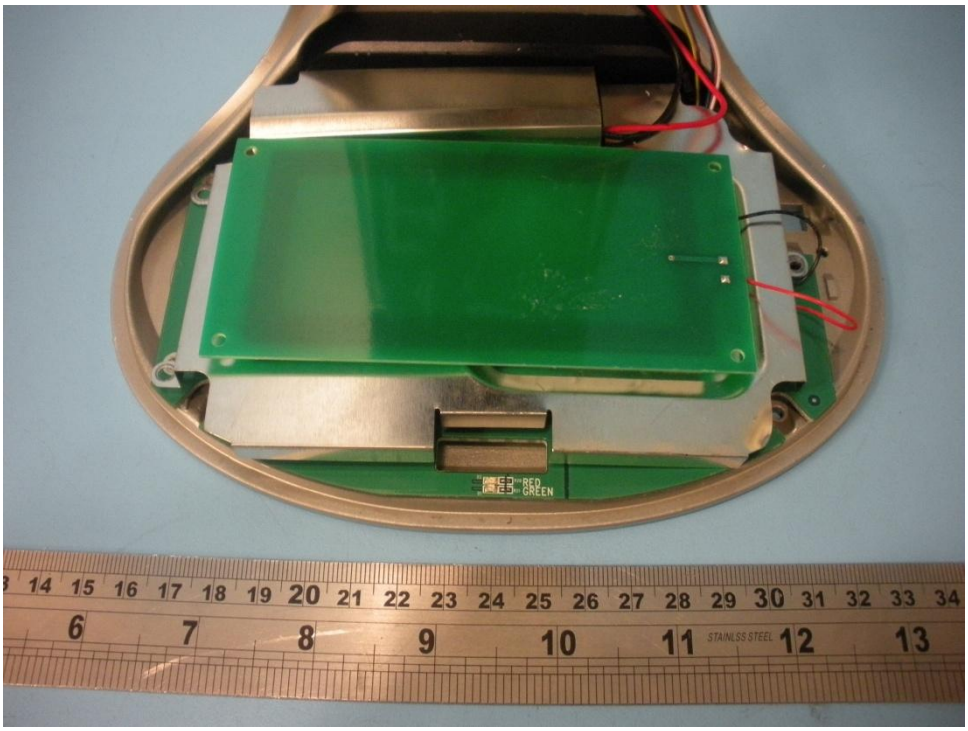
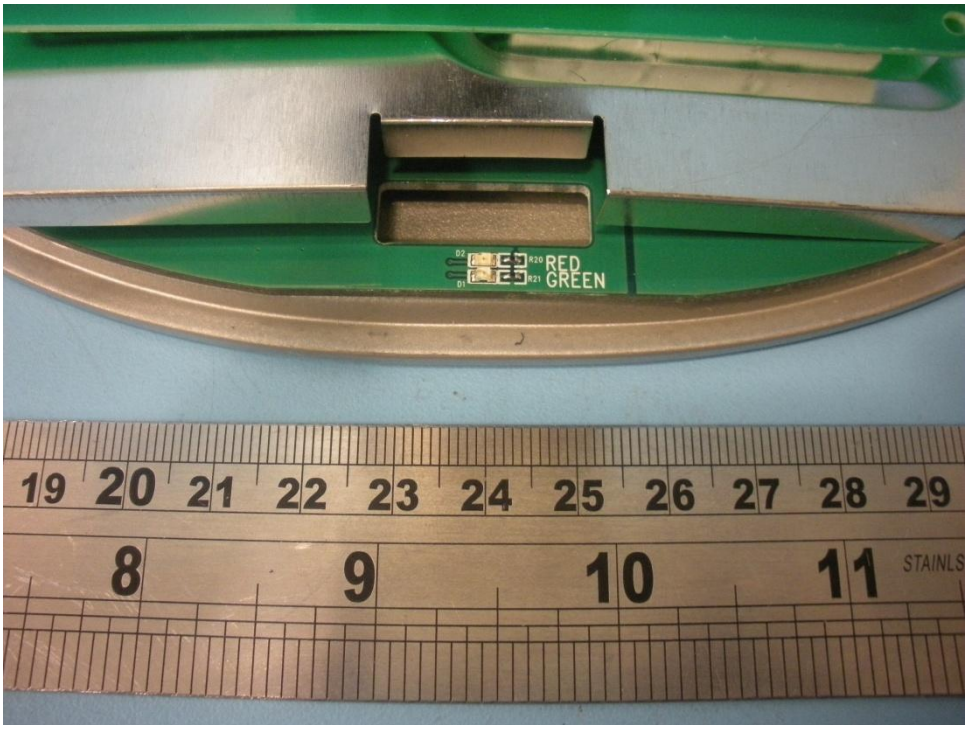
Appendix A





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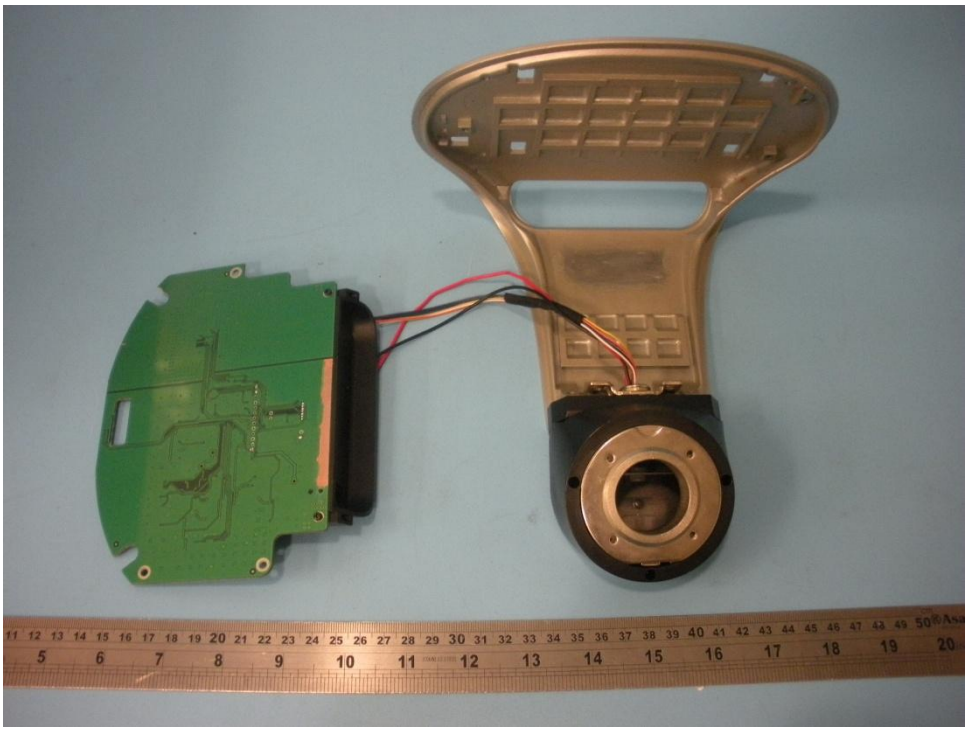

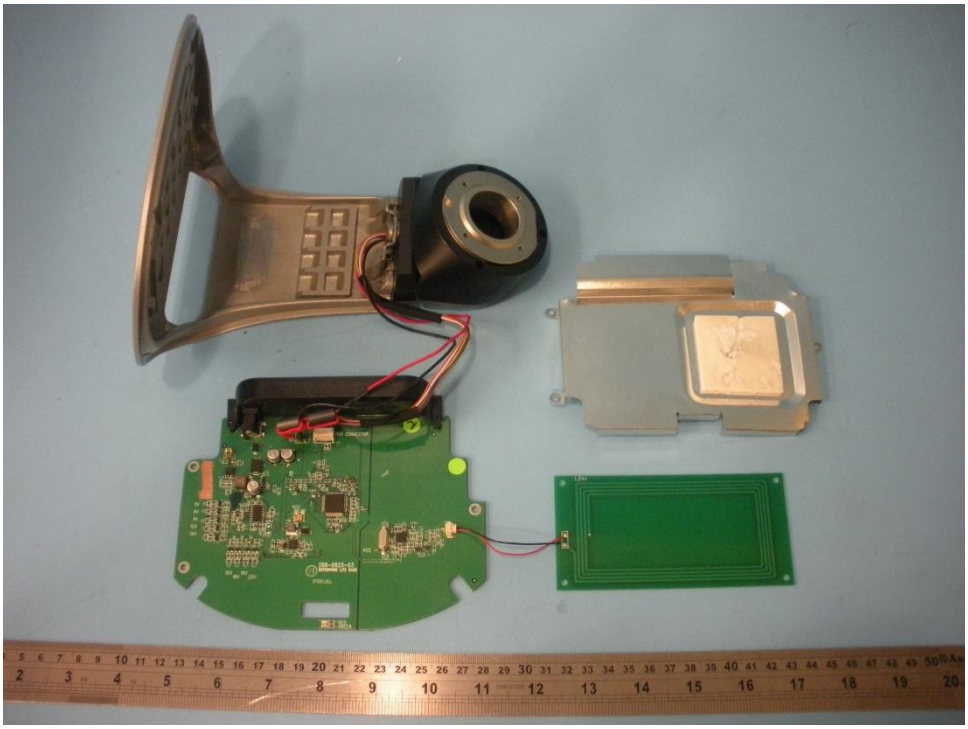

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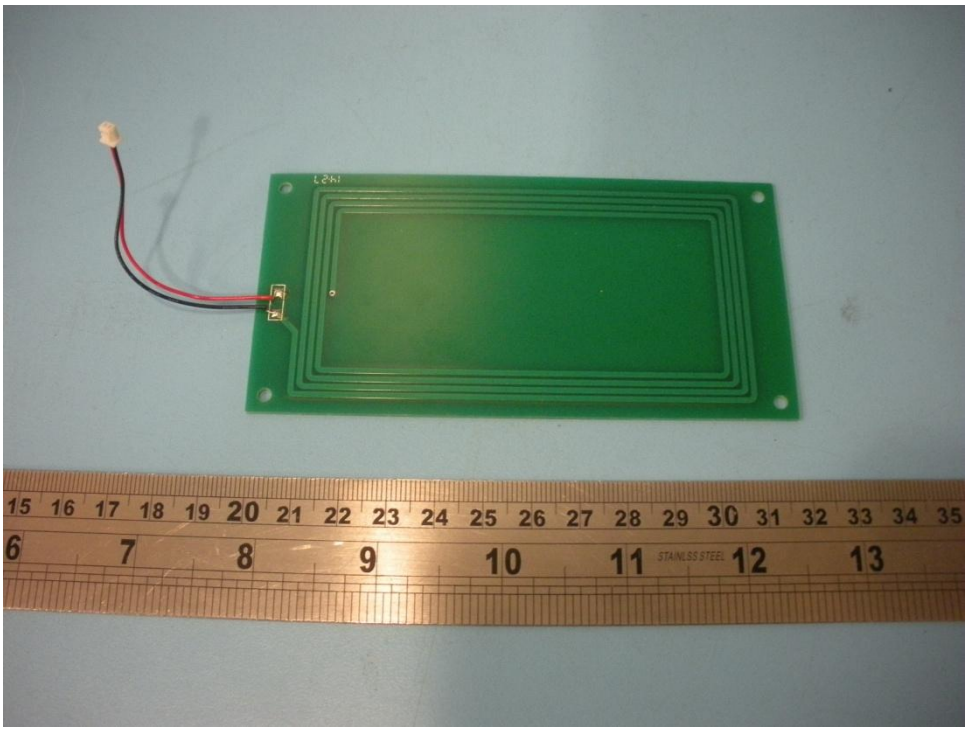

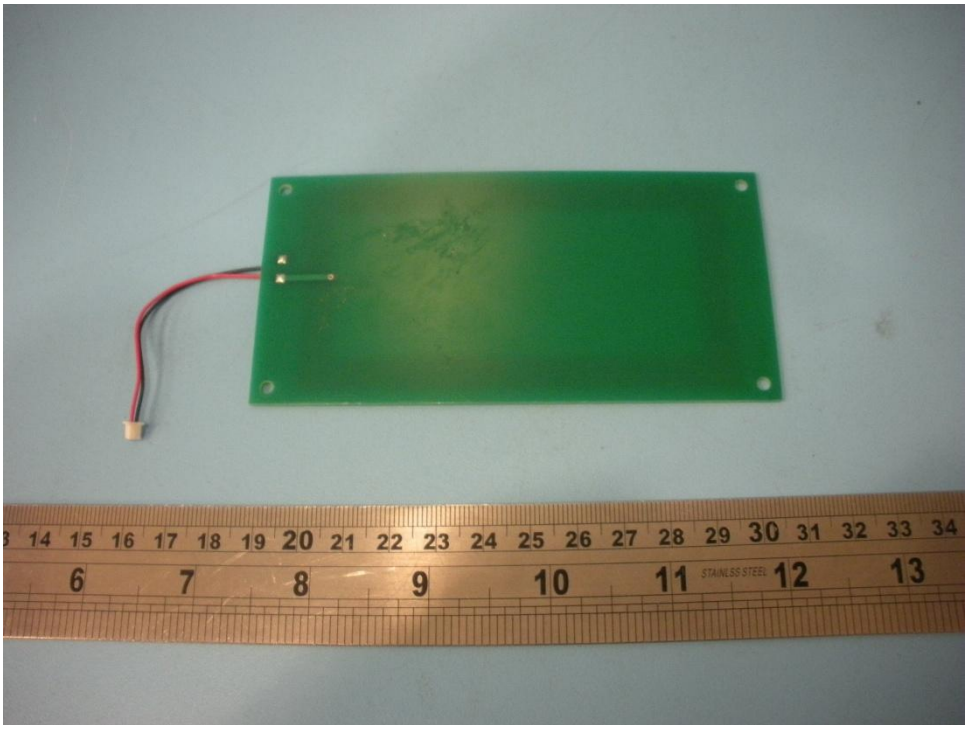

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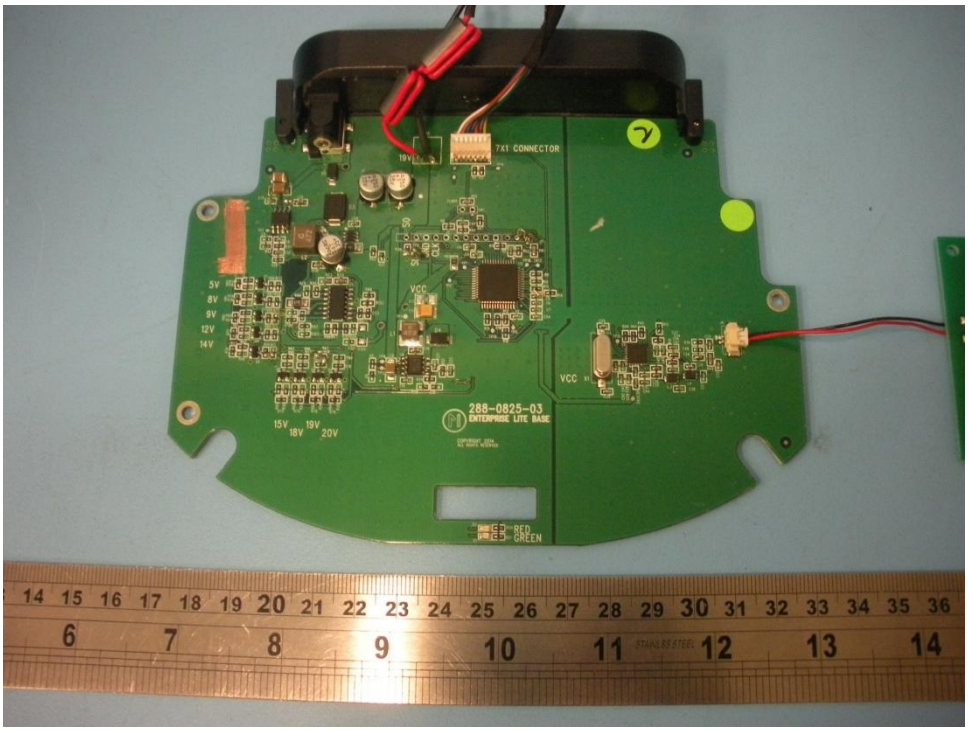

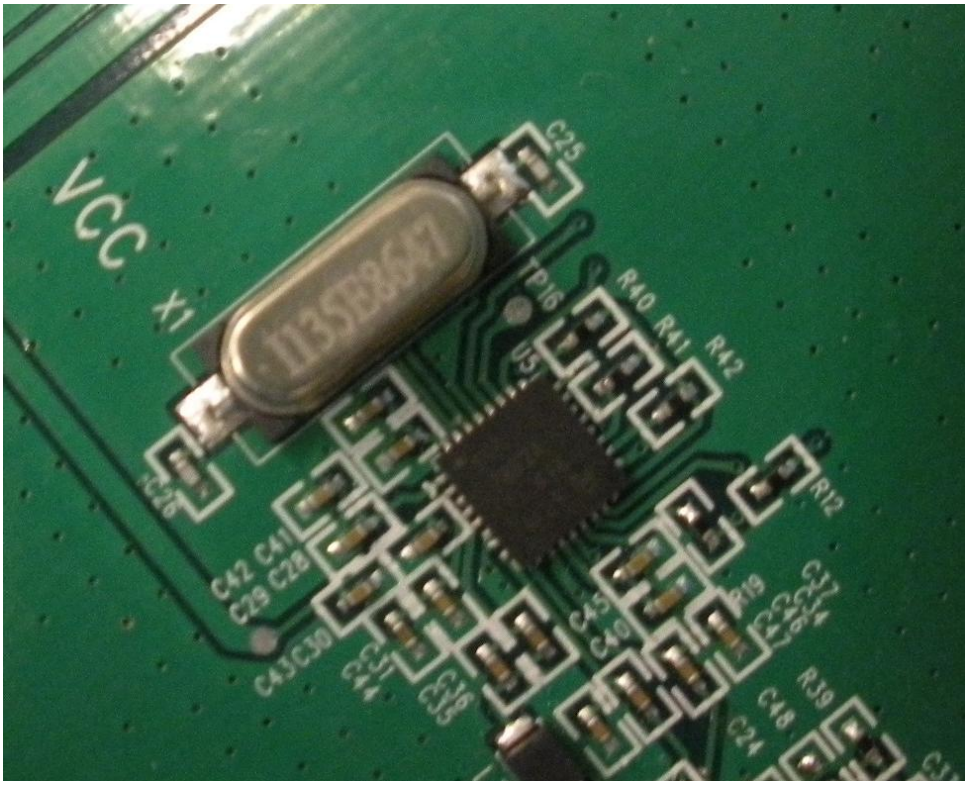

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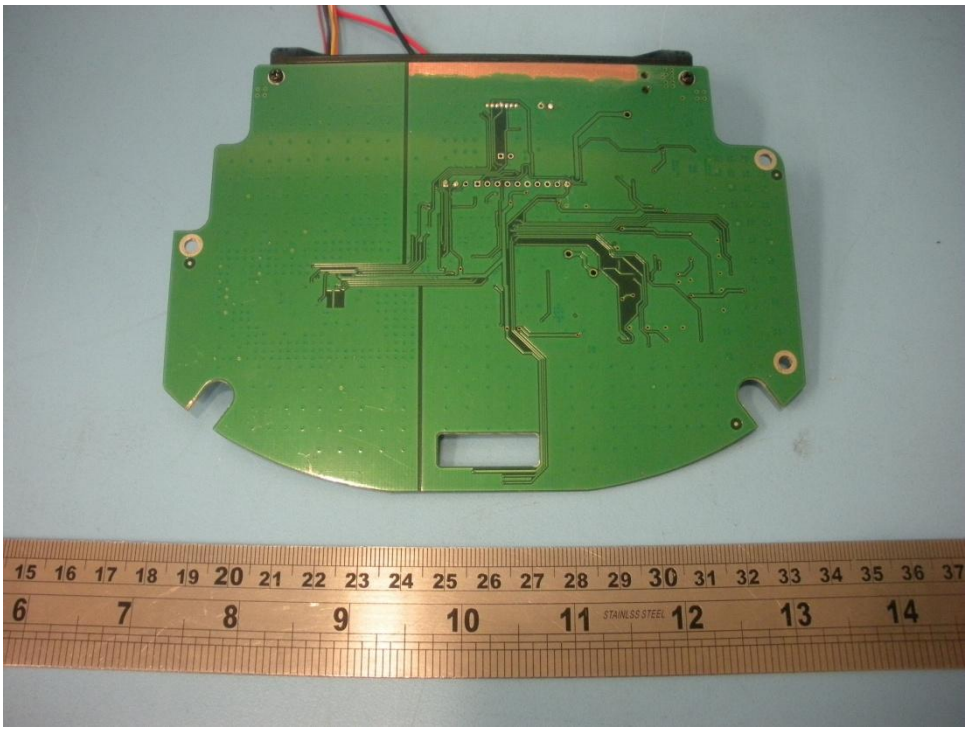

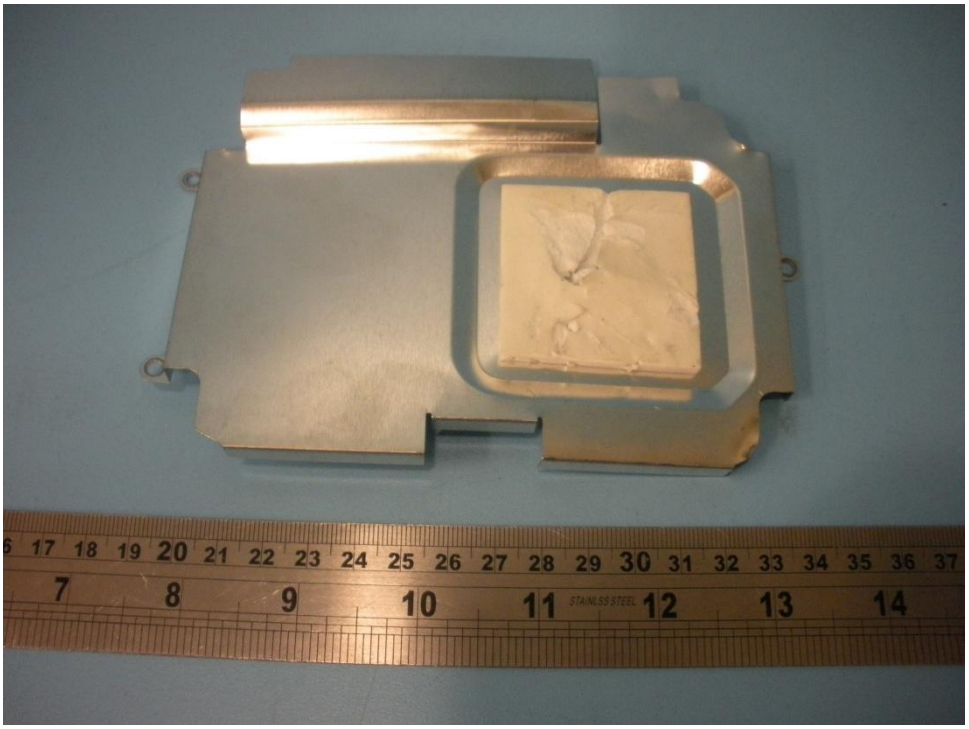

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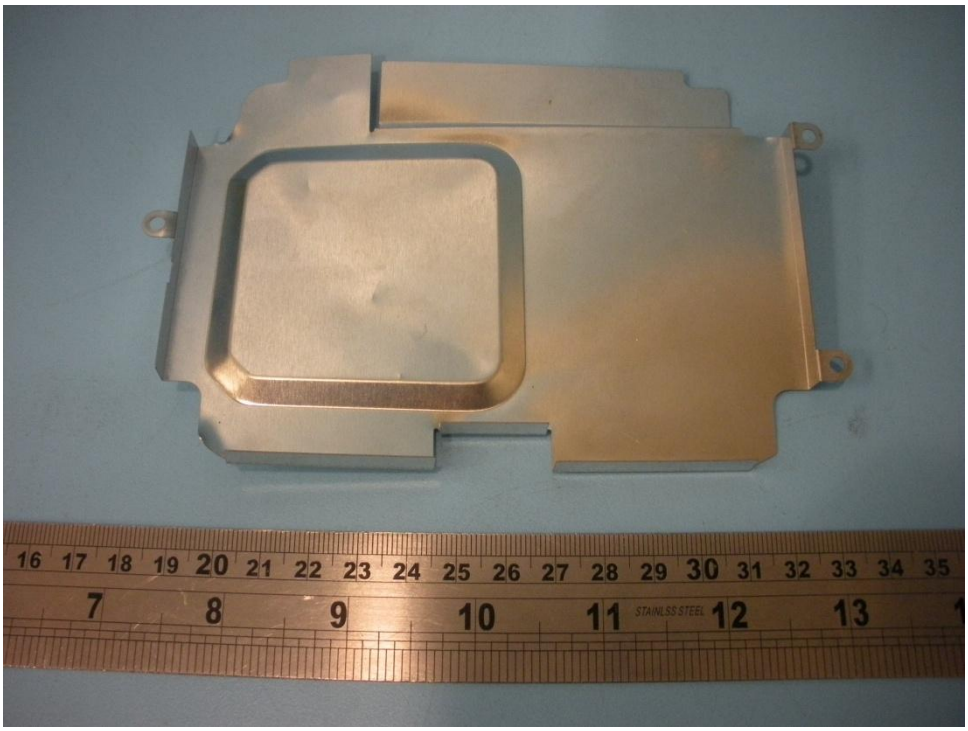

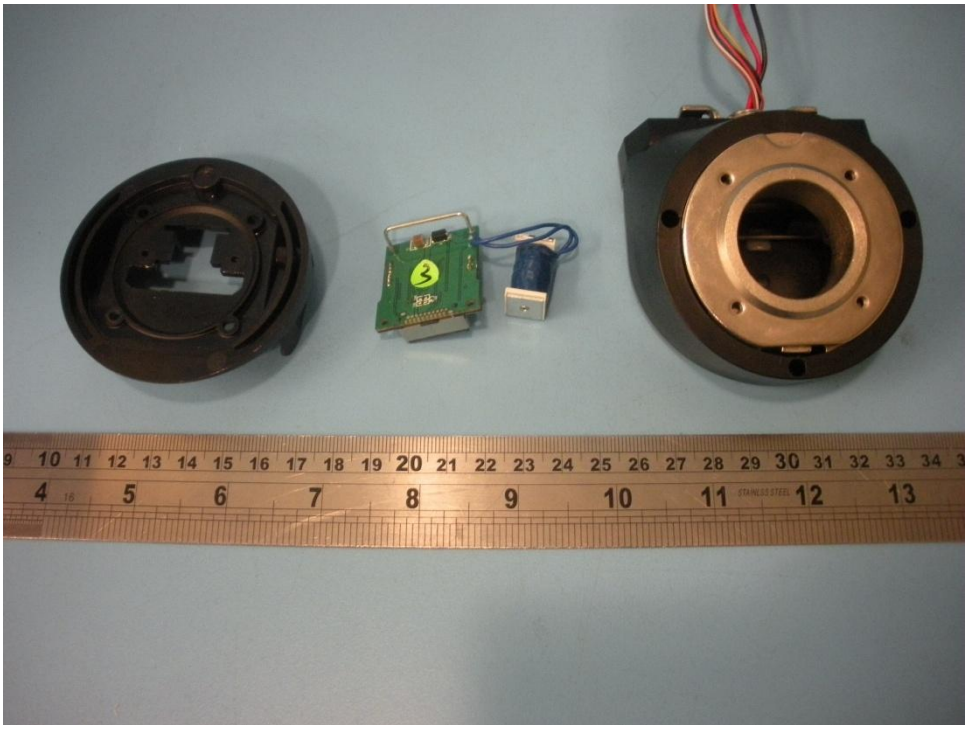

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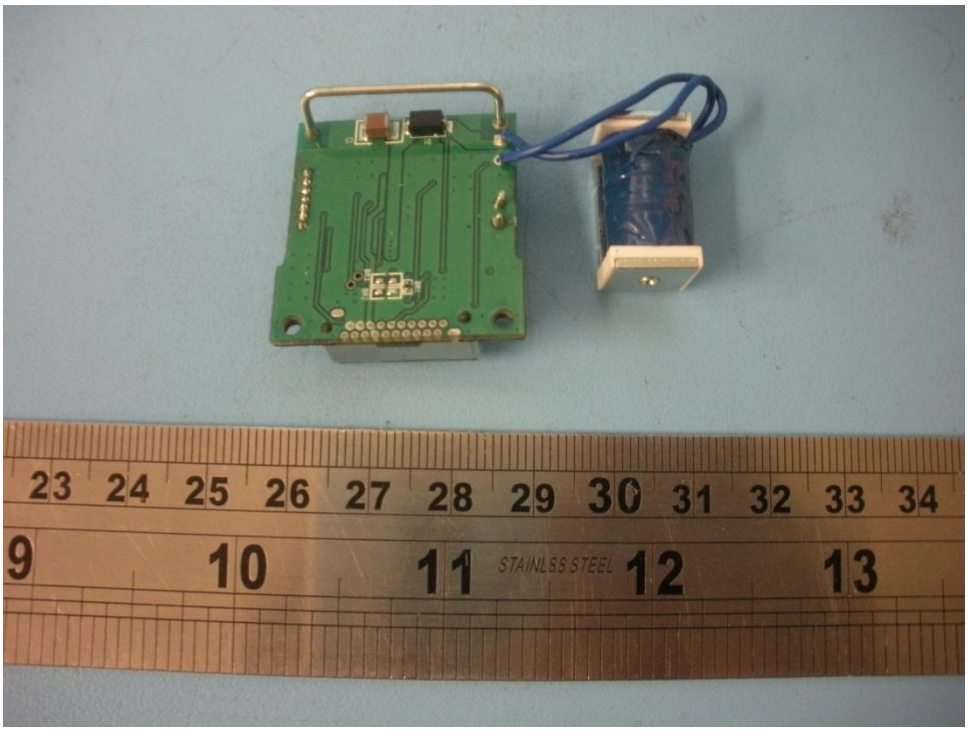

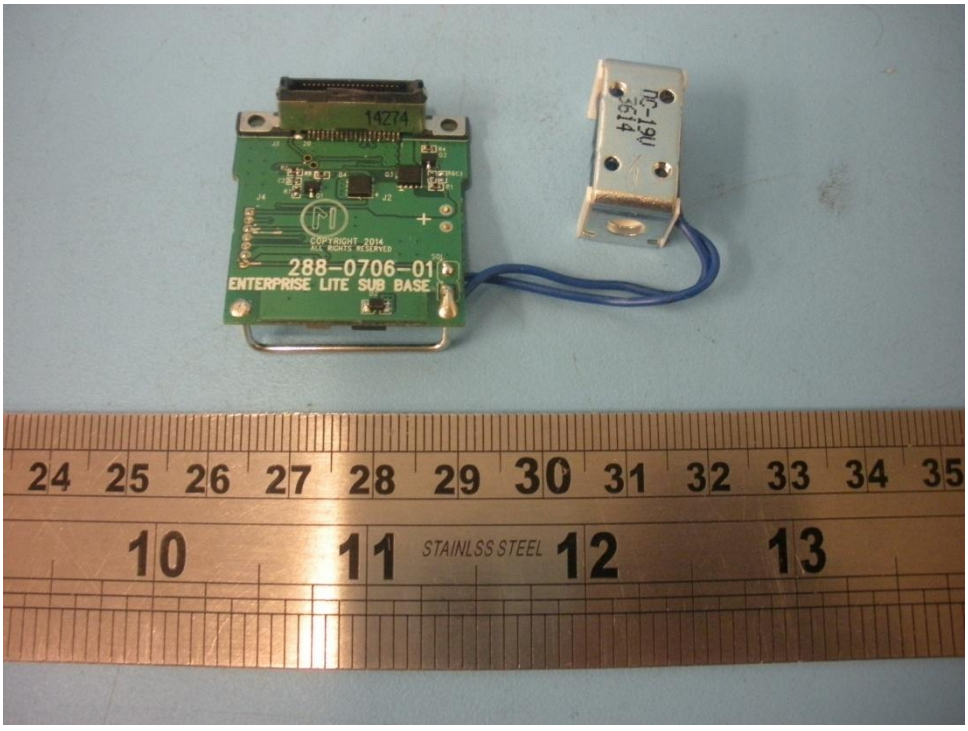

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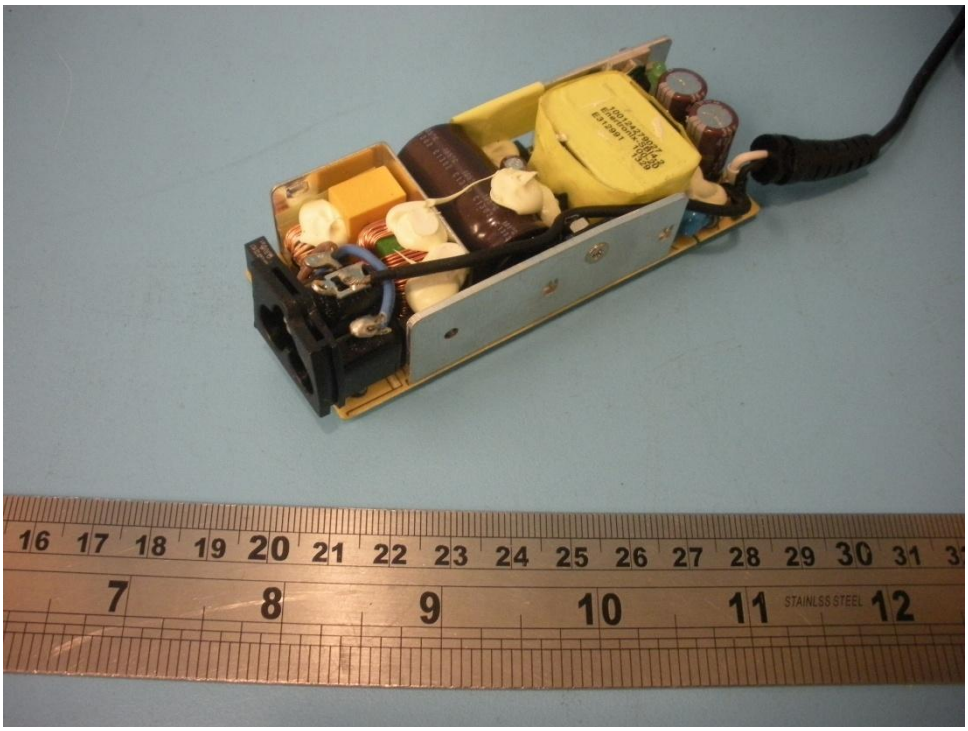

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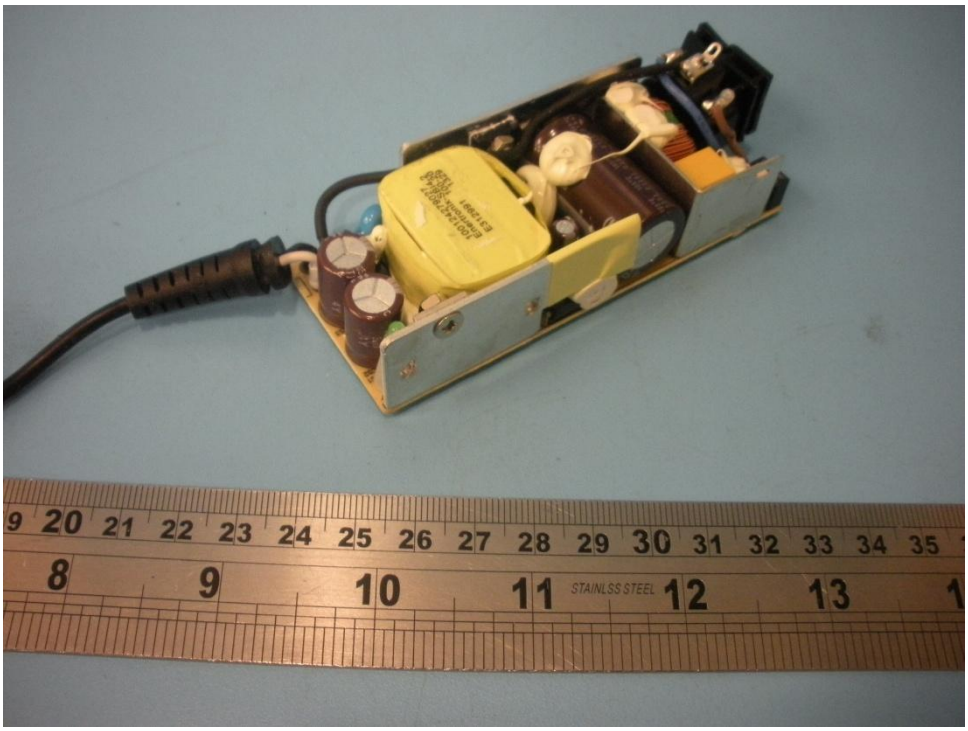

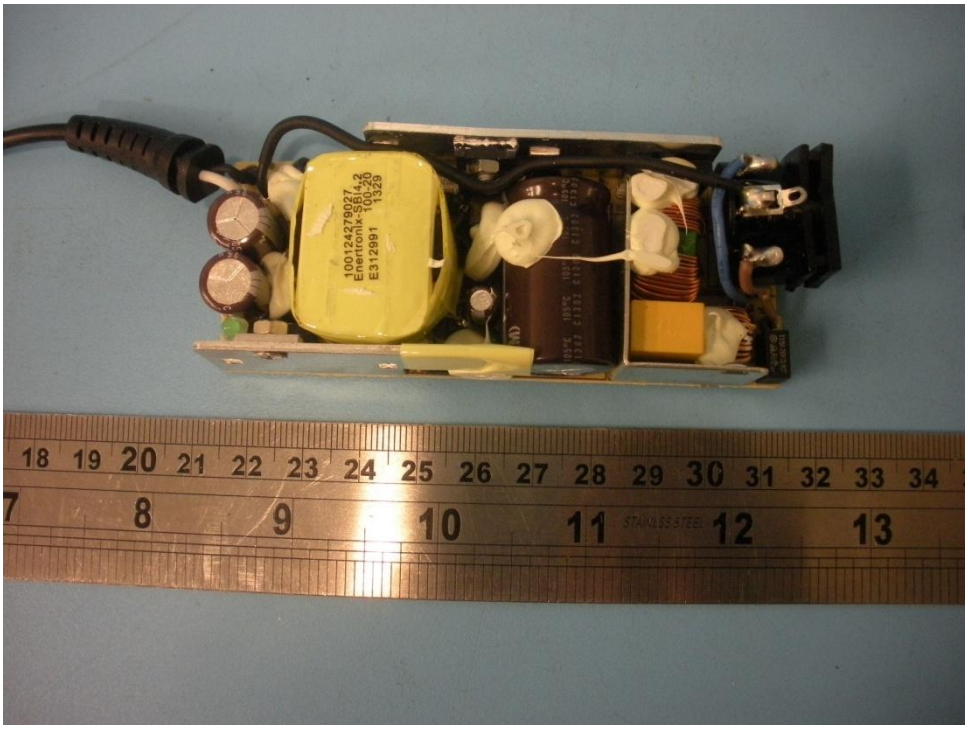

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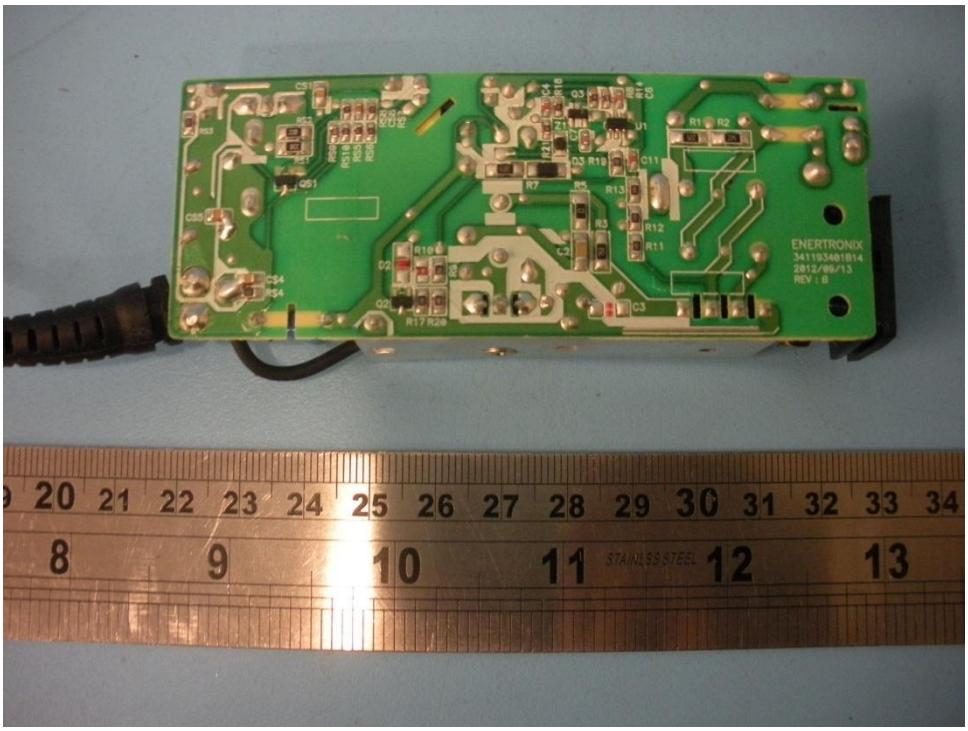

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Appendix A

Test Support Equipment

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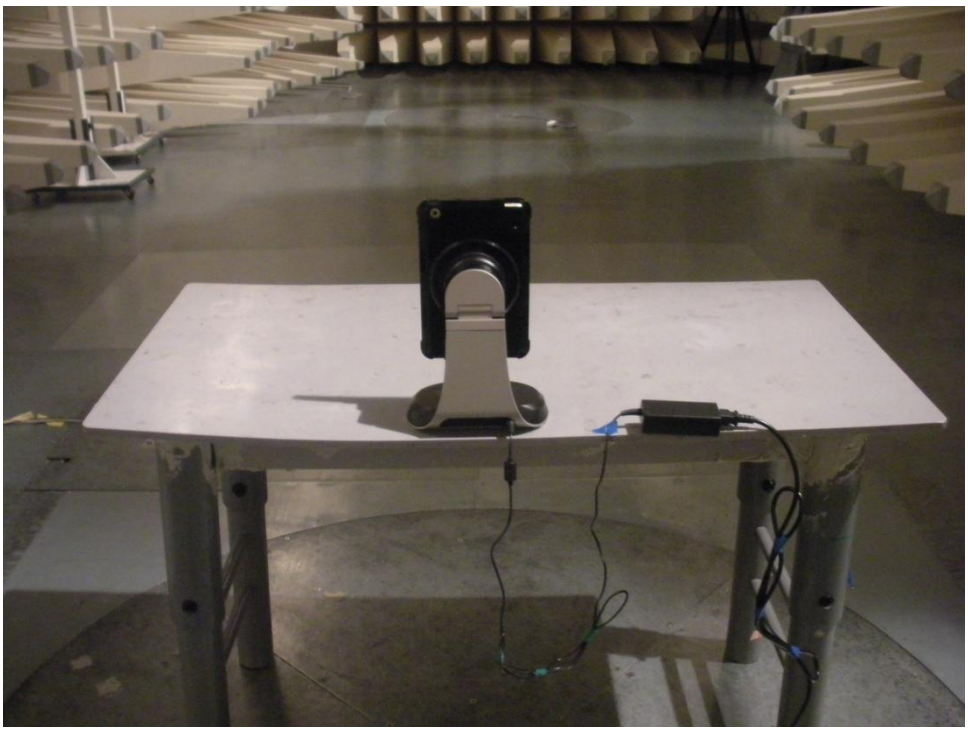
9 Appendix B - Setup Photographs of EUT

Radiated Emission



Appendix B

Conducted Emission

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10 Appendix C - Radiofrequency radiation exposure evaluation

According to KDB 447498 D01v05r02 section 4.3.1,

The 1-g SAR test exclusion thresholds, for transmission frequency below 100MHz, at test separation distances ≤ 50 mm are determined by:

Power = 0.00000246 mW EIRP

½ * [(0.00000246 mW) / (50 mm)] · [sqrt (0.01356 GHz)] = 0.00000000286 which is ≤ 3.0 for 1-g SAR.

Therefore the device is exempt from stand-alone SAR test requirements.

>> The fundamental frequency of the EUT is 13.56 MHz and the test separation distance is < 50mm.

>> The power of EUT measured is -12.38dBuA/m = 39.12dBuV/m = -56.08dBm = 0.00000246mW

* Where “dBuV/m = dBuA/m + 51.5” and “dBm = dBuV/m - 95.2”

* 0.00000246mW = 10 log (0.00000246) dBm ~ -56.08dBm