

FCC - TEST REPORT

Report Number : **60.790.16.106.01R01** Date of Issue : December 12, 2016

Model : **MU170517005, MU170517006**

Product Type : **E-Bike computer**

Applicant : DAYTON INDUSTRIAL CO.,LTD

Address : 2-12 Kwai fat Road, 11-A Kwai Chung, New Territories, Hong Kong

Production Facility : KENDY ENTERPRISE LTD

Address : 2-12 Kwai fat Road, 11-A Kwai Chung, New Territories, Hong Kong

Test Result : **Positive** **Negative**

Total pages including Appendices : 46

TÜV SÜD HONG KONG LTD. is a subcontractor to TÜV SÜD Product Service GmbH according to the principles outlined in ISO 17025. TÜV SÜD HONG KONG LTD. reports apply only to the specific samples tested under stated test conditions. Construction of the actual test samples has been documented. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. The manufacturer/importer is responsible to the Competent Authorities in Europe for any modifications made to the production units which result in non-compliance to the relevant regulations TÜV SÜD HONG KONG LTD. shall have no liability for any deductions, inferences or generalizations drawn by the client or others from TÜV SÜD HONG KONG LTD. issued reports. This report is the confidential property of the client. As a mutual protection to our clients, the public and ourselves, extracts from the test report shall not be reproduced except in full without our written approval.

1 Table of Contents

1 Table of Contents.....	2
2 Description of Equipment Under Test	3
3 Summary of Test Standards	4
4 Details about the Test Laboratory	5
4.1 Test Equipment Site List	6
4.2 Measurement System Uncertainty	7
5 Summary of Test Results.....	8
6 General Remarks.....	9
7 Emission Test Results	10
7.1 Spurious Radiated Emission	10
7.2 6dB & 99% Bandwidth	16
7.3 Peak Output Power.....	19
7.4 Spurious Emissions at Antenna Terminals.....	22
7.5 100kHz Bandwidth of band edges.....	25
7.6 Power Spectral Density.....	29
7.7 Antenna Requirement.....	32
8 Appendix A - Photographs of EUT.....	33
9 Appendix B - Setup Photographs of EUT.....	43
10 Appendix C - General Product Information	45

2 Description of Equipment Under Test

Description of the Equipment Under Test

Product:	E-Bike computer
Model no.:	MU170517005, MU170517006
FCC ID:	O4GDE48X
Rating:	1) 12.0VDC 2) For memory: 3.0VDC (1 x 3.0VDC size "CR2032" cell battery)
Frequency:	2402MHz-2480MHz
Antenna gain:	0 dBi
Number of operated channel:	40
Modulation:	GFSK



3 Summary of Test Standards

Test Standards

FCC Part 15 Subpart C 10-1-15 Edition Federal Communications Commission, PART 15 — Radio Frequency Devices, Subpart C — Unintentional Radiators

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: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13 Zhiheng Wisdomland Business Park,
Nantou Checkpoint Road 2,
Shenzhen 518052, P.R.China
FCC Registration Number: 502708

Emission Tests	
Test Item	Test Site
FCC Part 15 Subpart C	
FCC Title 47 Part 15.205, 15.209 & 15.247(d) Spurious Radiated Emission	Site 2
FCC Title 47 Part 15.207 Conduct Emission	NIL
FCC Title 47 Part 15.247(a)(1) 6dB & 99% Bandwidth	Site 2
FCC Title 47 Part 15.247(b) Peak Output Power	Site 2
FCC Title 47 Part 2.1051 & 15.247(d) Spurious Emissions at Antenna Terminals	Site 2
FCC Title 47 Part 15.247(d) 100kHz Bandwidth of band edges	Site 2
FCC Title 47 Part 15.247(e) Power Spectral Density	Site 2
FCC Title 47 Part 15.203 & 15.247(b) Antenna Requirement	Site 2

4.1 Test Equipment Site List

Radiated emission Test – Site 2

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	15-July-17
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	15-July-17
Horn Antenna	Rohde & Schwarz	HF907	102294	15-July-17
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	15-July-17
3m Semi-anechoic chamber	TDK	9X6X6	----	29-May-19

20dB & 99% Bandwidth, Peak Output Power, Spurious Emissions at Antenna Terminals, 100kHz Bandwidth of band edges, Power Spectral Density – Site 2

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Signal Generator	Rohde & Schwarz	SMB100A	108272	15-July-17
Signal Analyzer	Rohde & Schwarz	FSV40	101030	15-July-17
Vector Signal Generator	Rohde & Schwarz	SMU 200A	105324	15-July-17
RF Switch Module	Rohde & Schwarz	OSP120/OSP-B157	101226/100851	15-July-17

4.2 Measurement System Uncertainty

Measurement System Uncertainty Emissions

System Measurement Uncertainty	
Items	Extended Uncertainty
Uncertainty for Radiated Emission in 3m chamber 9kHz-30MHz	4.54dB
Uncertainty for Radiated Emission in 3m chamber 30MHz-1000MHz	Horizontal: 4.83dB; Vertical: 4.91dB;
Uncertainty for Radiated Emission in 3m chamber 1000MHz-25000MHz	Horizontal: 4.89dB; Vertical: 4.88dB;
Uncertainty for Conducted RF test	2.04dB

5 Summary of Test Results

Emission Tests				
FCC Part 15 Subpart C				
Test Condition	Pages	Test Result		
		Pass	Fail	N/A
FCC Title 47 Part 15.205, 15.209 & 15.247(d) Spurious Radiated Emission	10-15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.207 Conduct Emission	NIL	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
FCC Title 47 Part 15.247(a)(2) 6dB & 99% Bandwidth	16-18	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.247(b) Peak Output Power	19-21	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 2.1051 & 15.247(d) Spurious Emissions at Antenna Terminals	22-24	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.247(d) 100kHz Bandwidth of band edges	25-28	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.247(e) Power Spectral Density	29-31	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.203 & 15.247(b) Antenna Requirement	32	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6 General Remarks

Remarks

Client informs that the model MU170517005 has the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction, with E-Bike computer, MU170517006. The difference lies only on disable a signal cable. (Client's confirmation letter shown at appendix C)

EMC tests were performed on model: MU170517006

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.

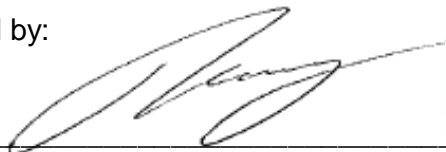
Sample Received Date: October 27, 2016

Testing Start Date: October 28, 2016

Testing End Date: November 23, 2016

- TÜV SÜD HONG KONG LTD. -

Reviewed by:



TSENG Chi Kit
EMC Project Engineer



Prepared by:



Chan Kwan Ho Alex
EMC Project Engineer

7 Emission Test Results

7.1 Spurious Radiated Emission

EUT: MU170517006
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Horizontal
 Comment: 12.0VDC
 Remark: 9kHz to 25GHz

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Frequency MHz	Result dBµV/m	Limit dBµV/m	Margin dB	Detector
59.423	31.88	40	-8.12	Quasi Peak
176.847	37.65	43.5	-5.85	Quasi Peak
232.783	34.52	46	-11.48	Quasi Peak
528.680	32.69	46	-13.31	Quasi Peak
1004.330	35.22	74	-38.78	Peak
1004.330	20.65	54	-33.35	Average
1597.937	46.14	74	-27.86	Peak
1597.937	32.63	54	-21.37	Average
4804.000	38.55	74	-35.45	Peak
4804.000	28.92	54	-25.08	Average
7206.000	37.88	74	-36.12	Peak
7206.000	26.42	54	-27.58	Average
12010.000	47.87	74	-26.13	Peak
12010.000	37.59	54	-16.41	Average

Spurious Radiated Emission

EUT: MU170517006
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Vertical
 Comment: 12.0VDC
 Remark: 9kHz to 25GHz

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
59.423	31.03	40	-8.97	Quasi Peak
176.847	35.48	43.5	-8.02	Quasi Peak
232.783	33.29	46	-12.71	Quasi Peak
528.680	31.09	46	-14.91	Quasi Peak
1004.330	37.25	74	-36.75	Peak
1004.330	26.44	54	-27.56	Average
1597.937	41.58	74	-32.42	Peak
1597.937	21.72	54	-32.28	Average
4804.000	35.25	74	-38.75	Peak
4804.000	24.97	54	-29.03	Average
7206.000	41.04	74	-32.96	Peak
7206.000	30.85	54	-23.15	Average
12010.000	42.76	74	-31.24	Peak
12010.000	32.33	54	-21.67	Average

Spurious Radiated Emission

EUT: MU170517006
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Horizontal
 Comment: 12.0VDC
 Remark: 9kHz to 25GHz

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
59.660	30.03	40	-9.97	Quasi Peak
175.482	32.50	43.5	-11.00	Quasi Peak
230.155	31.55	46	-14.45	Quasi Peak
528.795	30.95	46	-15.05	Quasi Peak
1197.000	41.57	74	-32.43	Peak
1197.000	20.92	54	-33.08	Average
1625.210	39.28	74	-34.72	Peak
1625.210	30.01	54	-23.99	Average
4880.025	34.25	74	-39.75	Peak
4880.025	24.07	54	-29.93	Average
7556.718	39.00	74	-35.00	Peak
7556.718	28.41	54	-25.59	Average
12200.210	46.90	74	-27.10	Peak
12200.210	37.83	54	-16.17	Average

Spurious Radiated Emission

EUT: MU170517006
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Vertical
 Comment: 12.0VDC
 Remark: 9kHz to 25GHz

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Frequency MHz	Result dBµV/m	Limit dBµV/m	Margin dB	Detector
59.660	29.25	40	-10.75	Quasi Peak
175.482	31.92	43.5	-11.58	Quasi Peak
230.155	31.49	46	-14.51	Quasi Peak
528.795	30.81	46	-15.19	Quasi Peak
1197.000	39.54	74	-34.46	Peak
1197.000	29.27	54	-24.73	Average
1593.062	43.11	74	-30.89	Peak
1593.062	32.85	54	-21.15	Average
4880.156	40.46	74	-33.54	Peak
4880.156	29.72	54	-24.28	Average
7319.062	43.23	74	-30.77	Peak
7319.062	32.61	54	-21.39	Average
12200.210	43.33	74	-30.67	Peak
12200.210	32.88	54	-21.12	Average

Spurious Radiated Emission

EUT: MU170517006
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Horizontal
 Comment: 12.0VDC
 Remark: 9kHz to 25GHz

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
60.055	30.15	40	-9.85	Quasi Peak
175.550	32.84	43.5	-10.66	Quasi Peak
231.075	29.77	46	-16.23	Quasi Peak
530.005	31.26	46	-14.74	Quasi Peak
1202.005	40.08	74	-33.92	Peak
1202.005	29.94	54	-24.06	Average
1595.625	43.37	74	-30.63	Peak
1595.625	33.48	54	-20.52	Average
4880.156	45.84	74	-28.16	Peak
4880.156	36.11	54	-17.89	Average
7439.065	42.35	74	-31.65	Peak
7439.065	31.87	54	-22.13	Average
12400.450	46.97	74	-27.03	Peak
12400.450	36.54	54	-17.46	Average

Spurious Radiated Emission

EUT: MU170517006
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Vertical
 Comment: 12.0VDC
 Remark: 9kHz to 25GHz

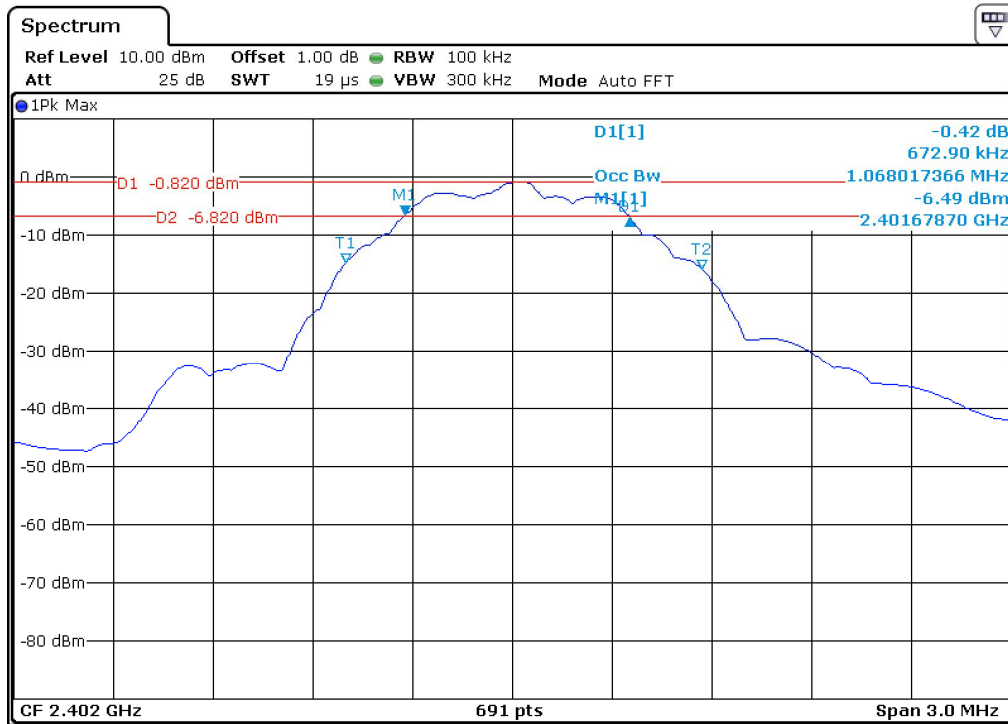
Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
60.055	29.85	40	-10.15	Quasi Peak
175.550	31.42	43.5	-12.08	Quasi Peak
231.075	28.53	46	-17.47	Quasi Peak
530.005	30.40	46	-15.60	Quasi Peak
1202.005	37.22	74	-36.78	Peak
1202.005	26.40	54	-27.60	Average
1595.625	45.47	74	-28.53	Peak
1595.625	34.92	54	-19.08	Average
4880.156	36.29	74	-37.71	Peak
4880.156	26.33	54	-27.67	Average
7527.185	40.80	74	-33.20	Peak
7527.185	31.51	54	-22.49	Average
12400.450	47.14	74	-26.86	Peak
12400.450	36.93	54	-17.07	Average

7.2 6dB & 99% Bandwidth

EUT: MU170517006
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(a)(2), 6dB Bandwidth & 99% Bandwidth
 Comment: 12.0VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



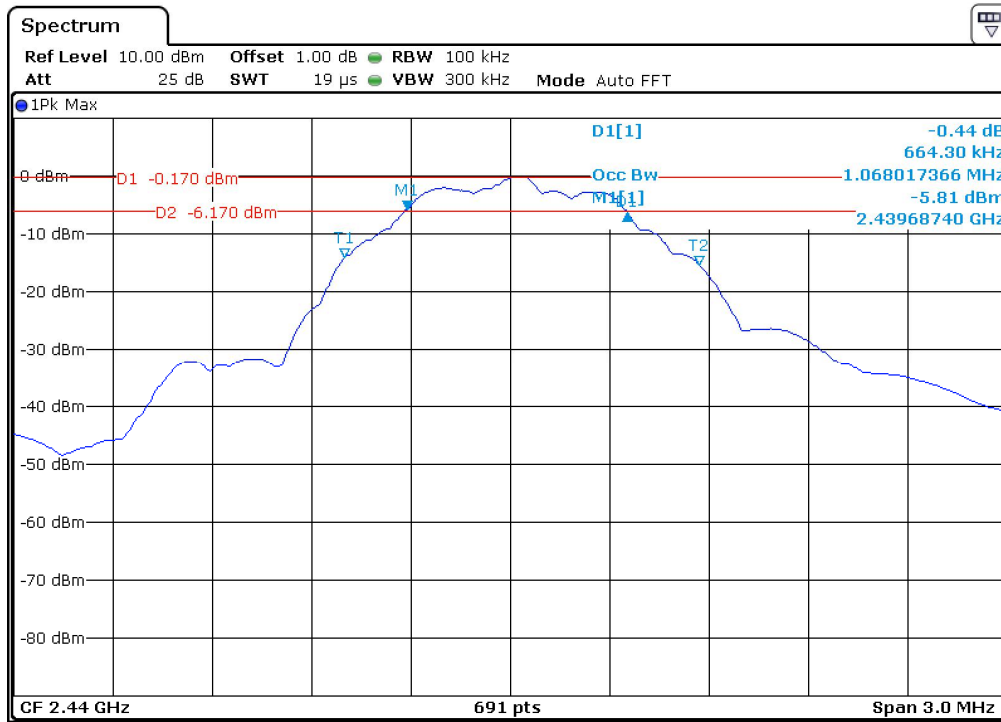
6dB bandwidth	Limit
672.900 kHz	>500 kHz

99% bandwidth
1068.017 kHz

6dB & 99% Bandwidth

EUT: MU170517006
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.247(a)(2), 6dB Bandwidth & 99% Bandwidth
 Comment: 12.0VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



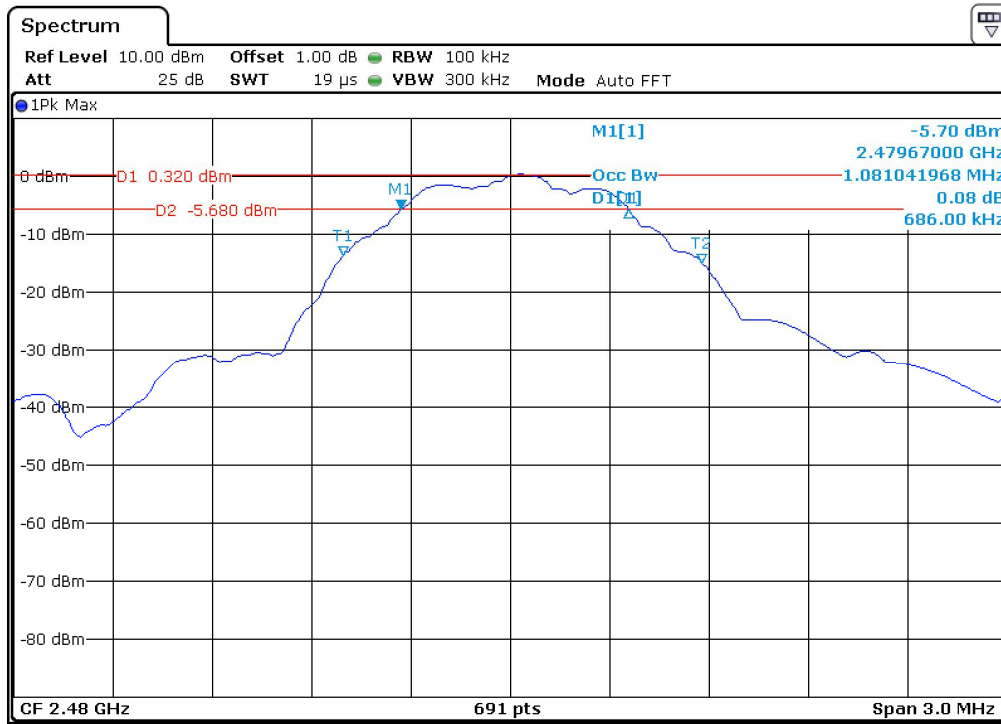
6dB bandwidth	Limit
664.300 kHz	>500 kHz

99% bandwidth
1068.017 kHz

6dB & 99% Bandwidth

EUT: MU170517006
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(a)(2), 6dB Bandwidth & 99% Bandwidth
 Comment: 12.0VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



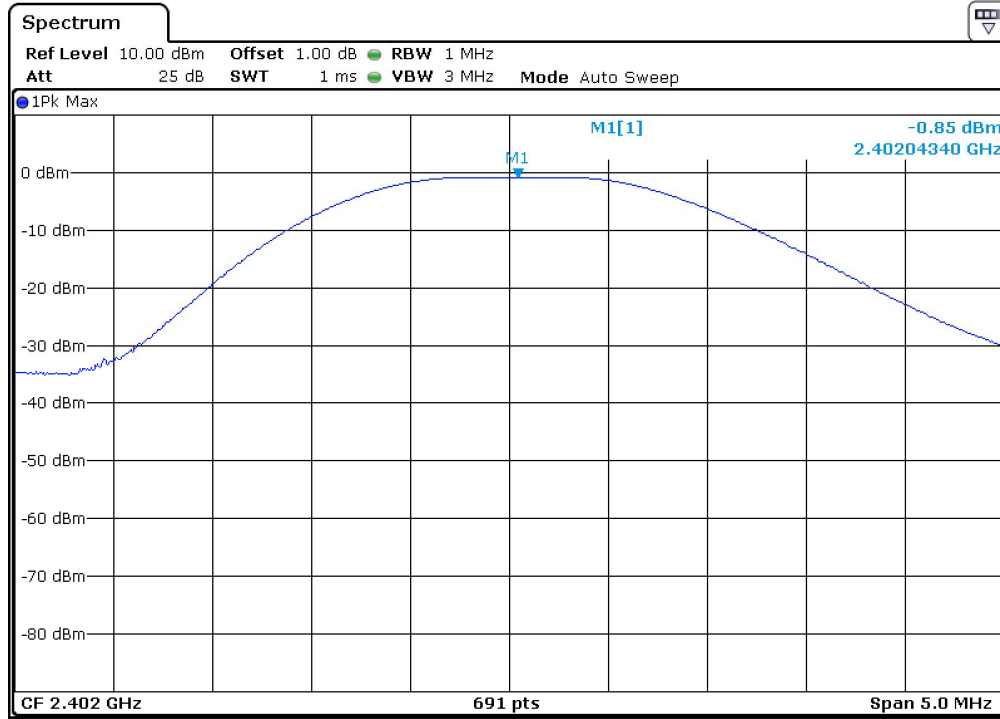
6dB bandwidth	Limit
686.000 kHz	>500 kHz

99% bandwidth
1081.041 kHz

7.3 Peak Output Power

EUT: MU170517006
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(b)
 Comment: 12.0VDC, Antenna gain: 0 dBi,
 Cable Loss: 1.0dB

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

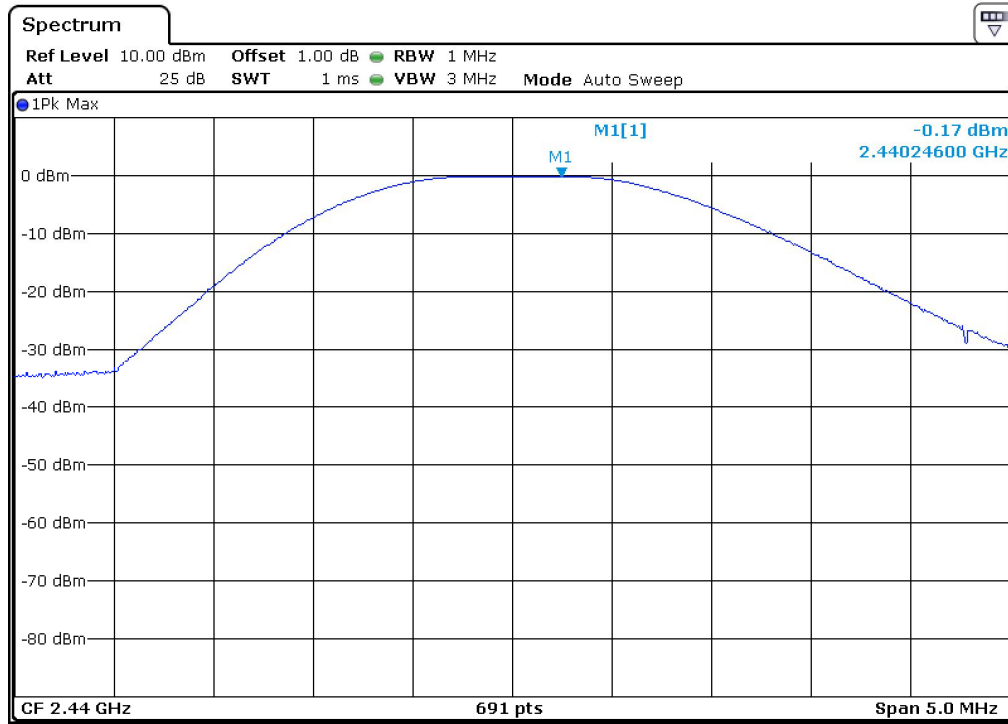


Conducted Output Power	Limit
-0.05dBm	30dBm

Peak Output Power

EUT: MU170517006
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.247(b)
 Comment: 12.0VDC, Antenna gain: 0 dBi,
 Cable Loss: 1.0dB

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

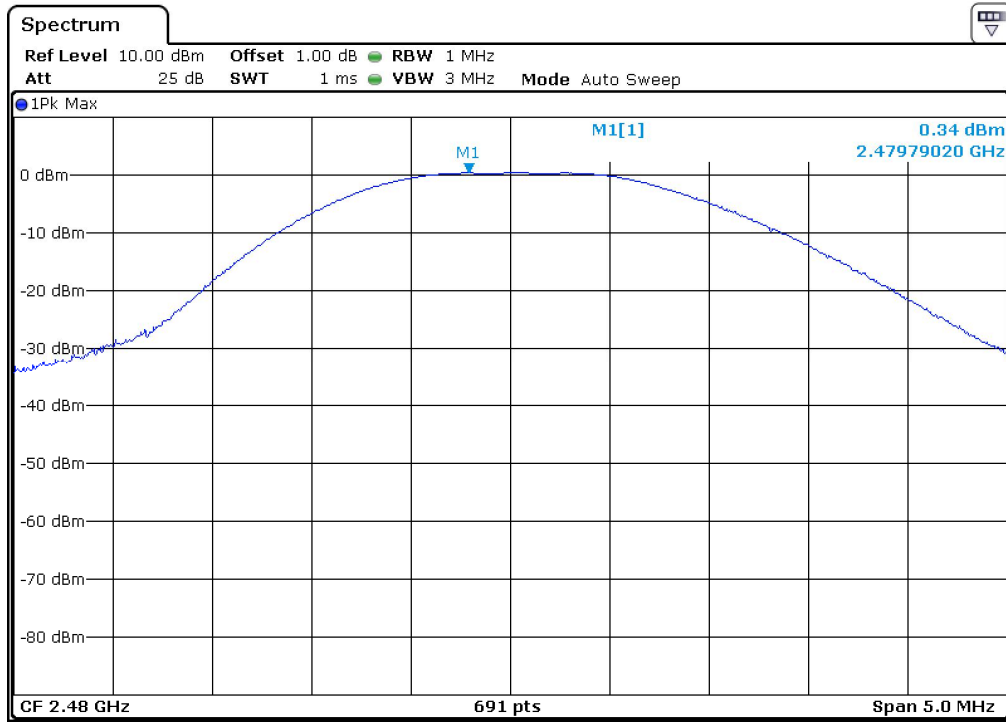


Conducted Output Power	Limit
-0.17dBm	30dBm

Peak Output Power

EUT: MU170517006
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(b)
 Comment: 12.0VDC, Antenna gain: 0 dBi,
 Cable Loss: 1.0dB

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

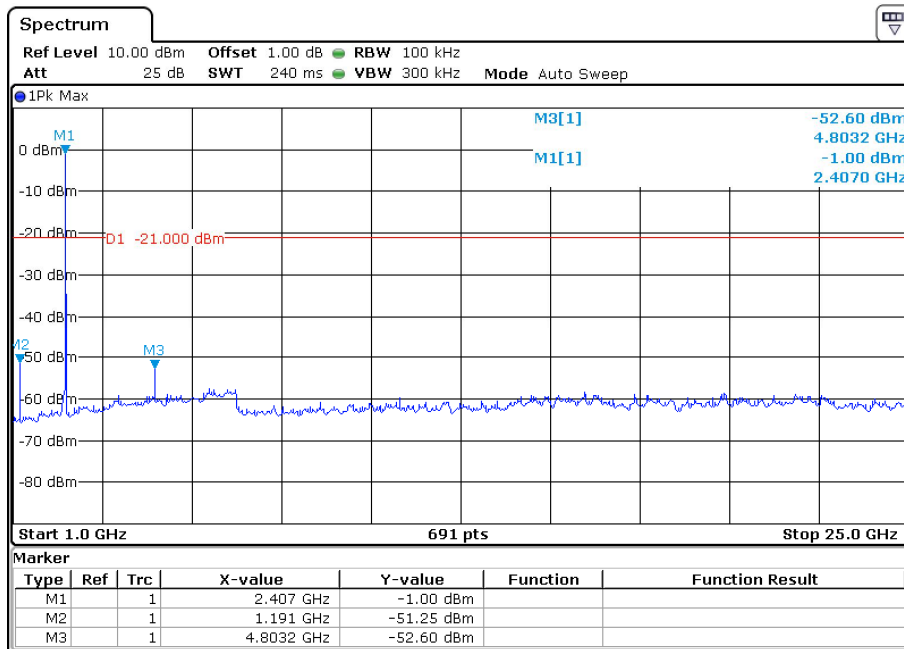
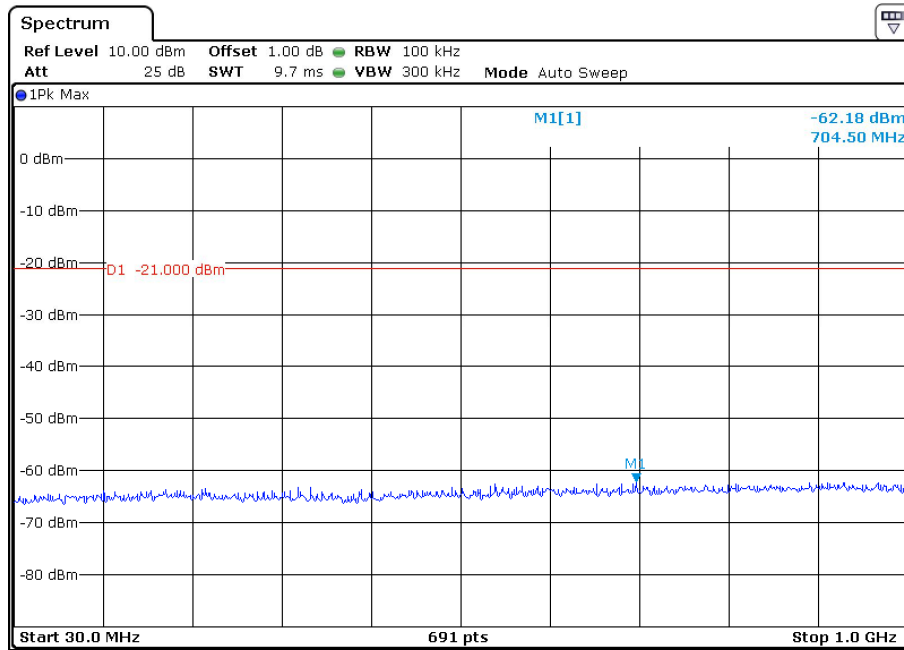


Conducted Output Power	Limit
0.34dBm	30dBm

7.4 Spurious Emissions at Antenna Terminals

EUT: MU170517006
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC2.1051 & 15.247(d)
 Comment: 12.0VDC

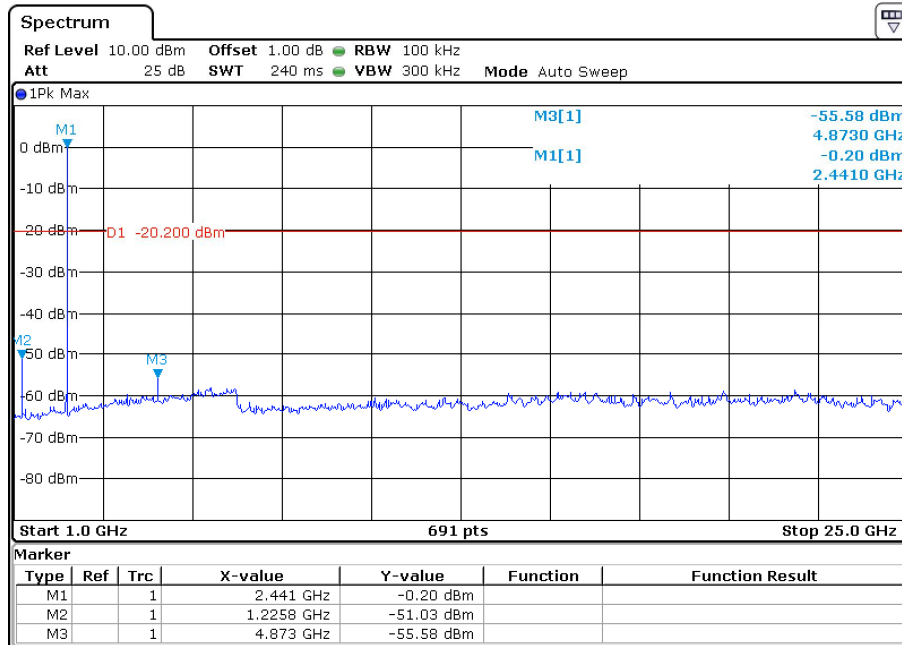
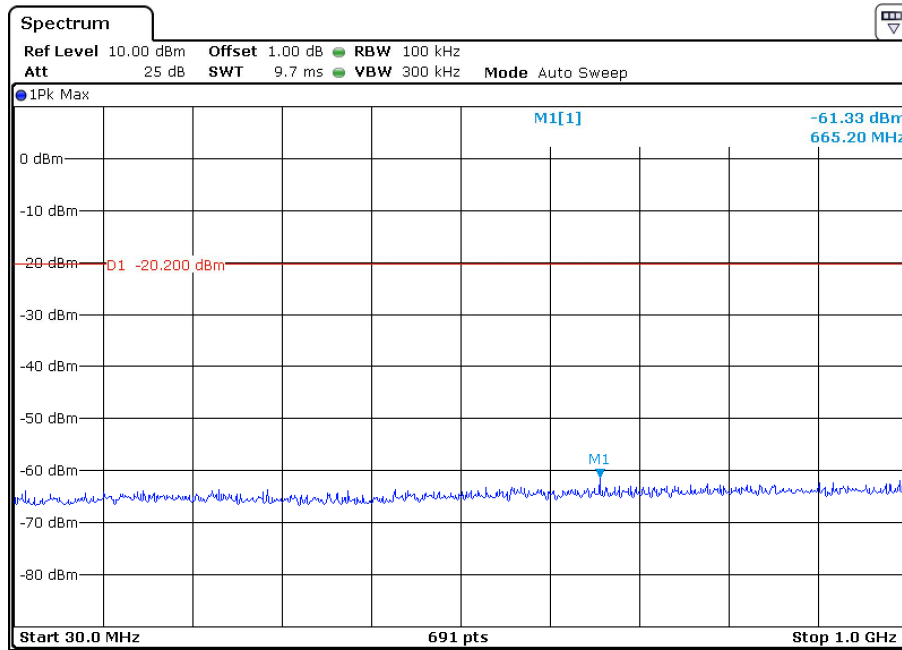
Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



Spurious Emissions at Antenna Terminals

EUT: MU170517006
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC2.1051 & 15.247(d)
 Comment: 12.0VDC

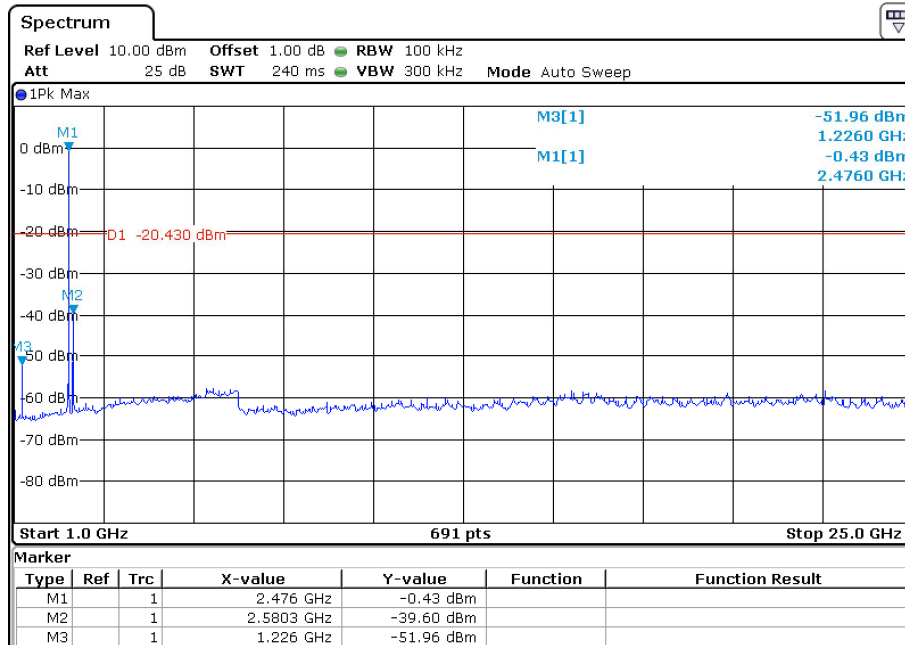
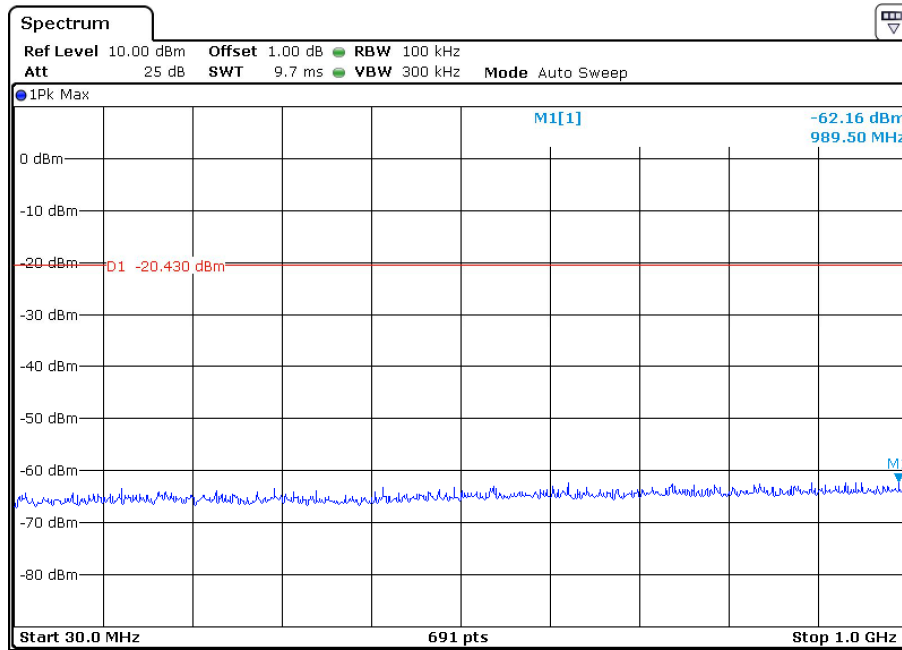
Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



Spurious Emissions at Antenna Terminals

EUT: MU170517006
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC2.1051 & 15.247(d)
 Comment: 12.0VDC

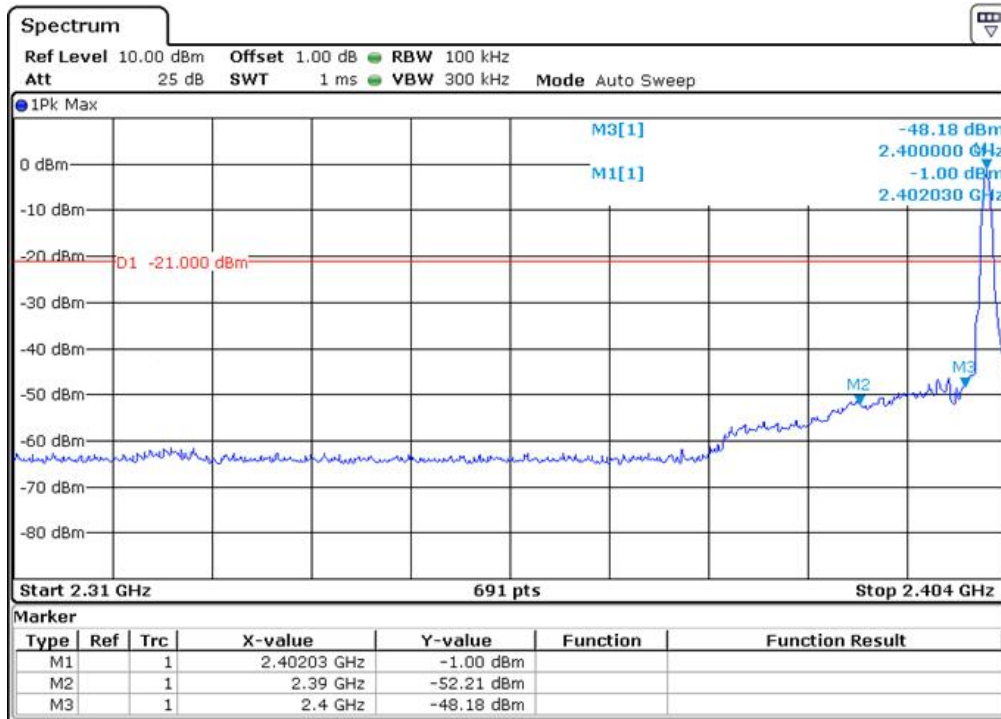
Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



7.5 100kHz Bandwidth of band edges

EUT: MU170517006
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(d), Conducted
 Comment: 12.0VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



Band edges	Limit
47.18 dB	> 20dB

100kHz Bandwidth of band edges

EUT: MU170517006
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(d), Radiated
 Comment: 12.0VDC

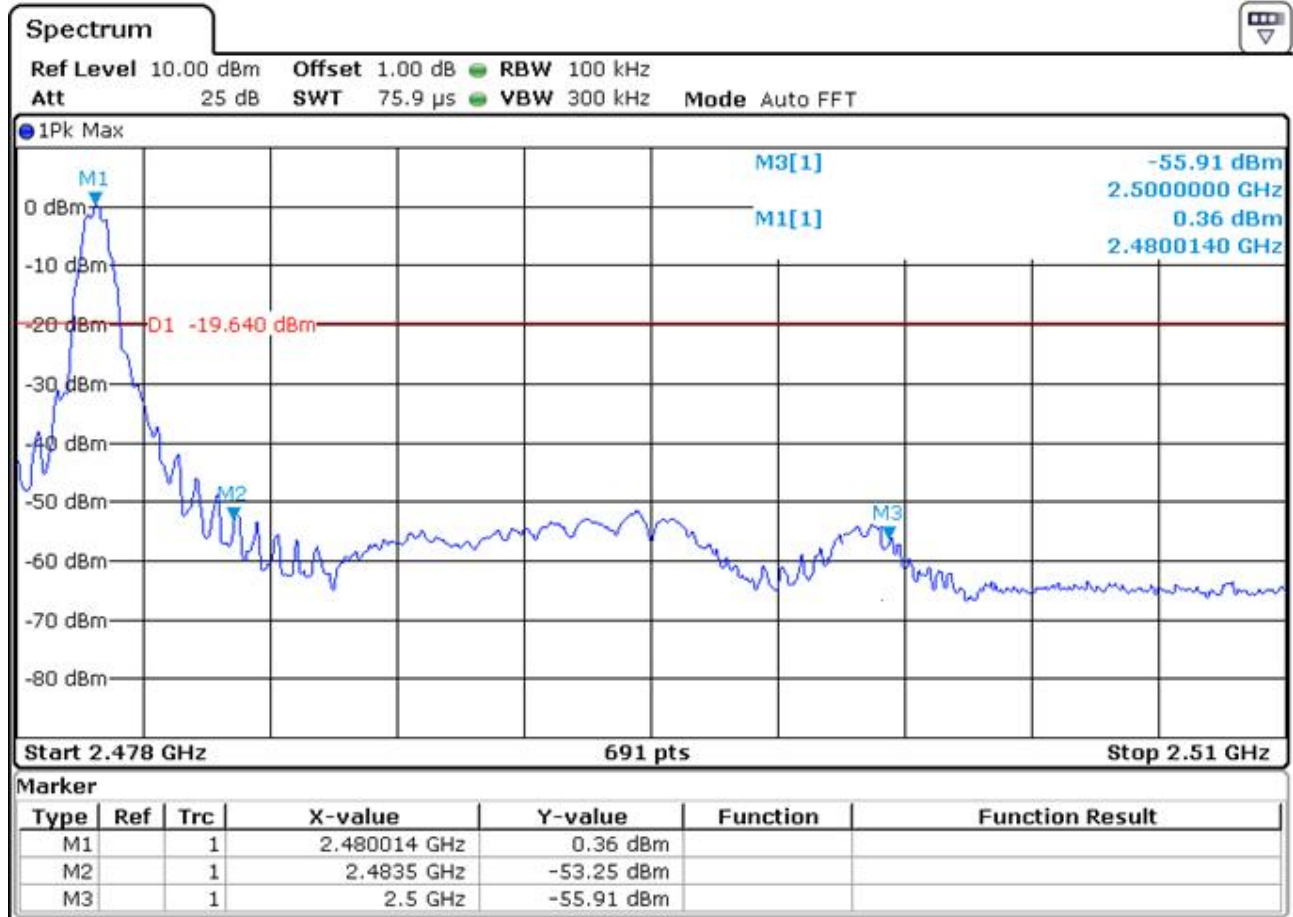
Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
2390.000	43.02	74	-30.98	Peak
2390.000	32.72	54	-21.28	Average

100kHz Bandwidth of band edges

EUT: MU170517006
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(d), Conducted
 Comment: 12.0VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



Band edges	Limit
52.89 dB	> 20dB

100kHz Bandwidth of band edges

EUT: MU170517006
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(d), Radiated
 Comment: 12.0VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
2483.500	41.98	74	-32.02	Peak
2483.500	30.25	54	-23.75	Average

7.6 Power Special Density

EUT: MU170517006
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(e)
 Comment: 12.0VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



PSD	Limit
-14.54 dBm	< 8 dBm

Power Special Density

EUT: MU170517006
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.247(e)
 Comment: 12.0VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

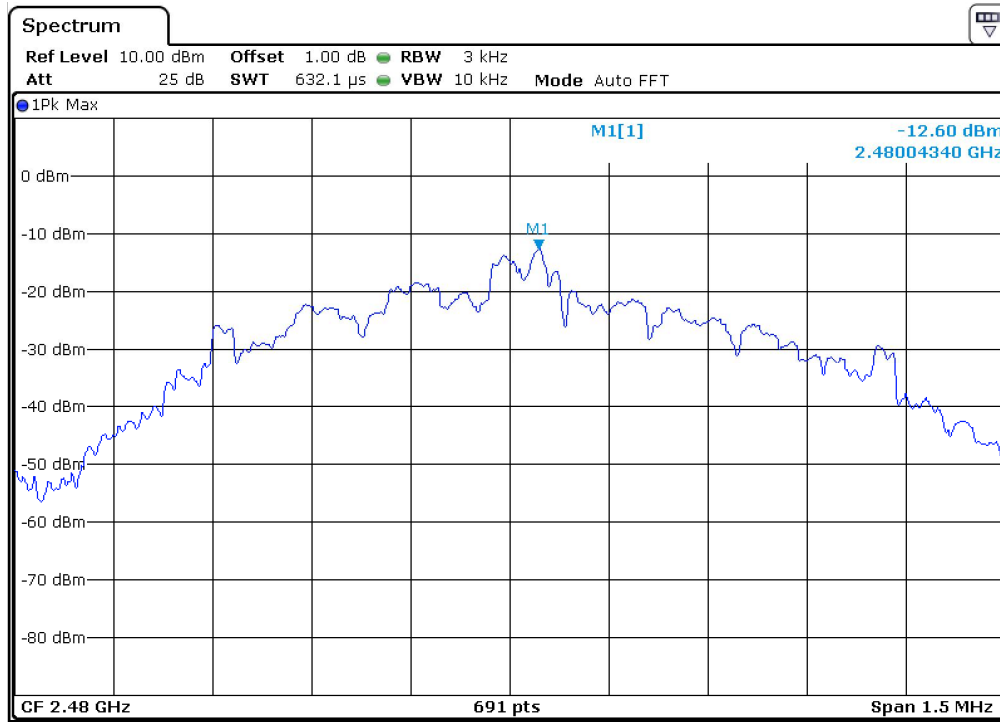


PSD	Limit
-13.28 dBm	< 8 dBm

Power Special Density

EUT: MU170517006
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.247(e)
 Comment: 12.0VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



PSD	Limit
-12.60 dBm	< 8 dBm

7.7 Antenna Requirement

EUT: MU170517006
Op Condition: Operated, TX Mode
Test Specification: FCC15.203 & 15.247(b)
Comment: 12.0VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

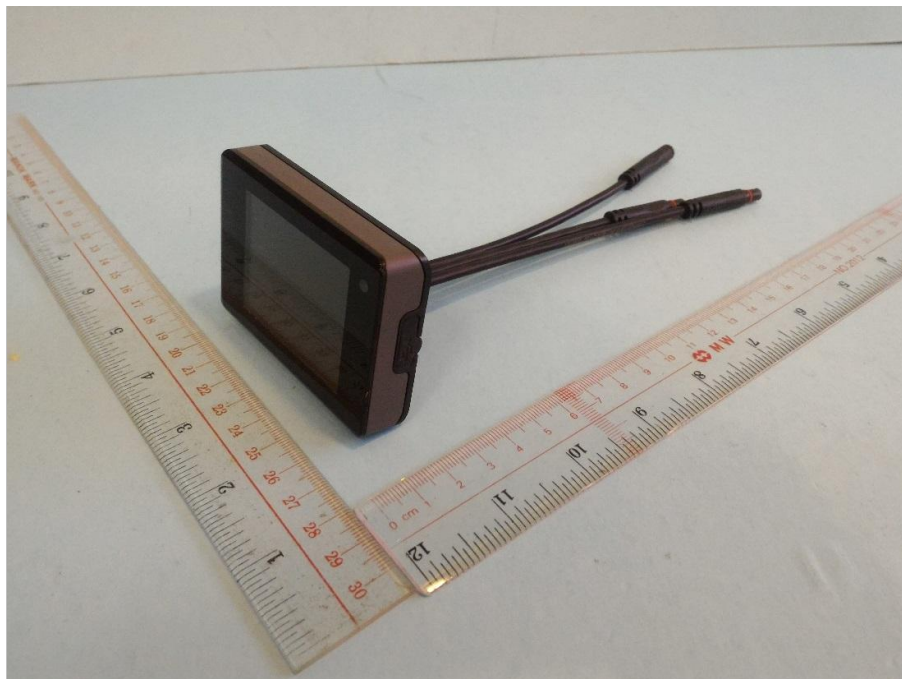
Limit

For intentional device, according to FCC Title 47 Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC Title 47 Part 15.247(b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The antenna used in this product is PCB antenna, and the maximum gain of this antenna is 0.0 dBi.

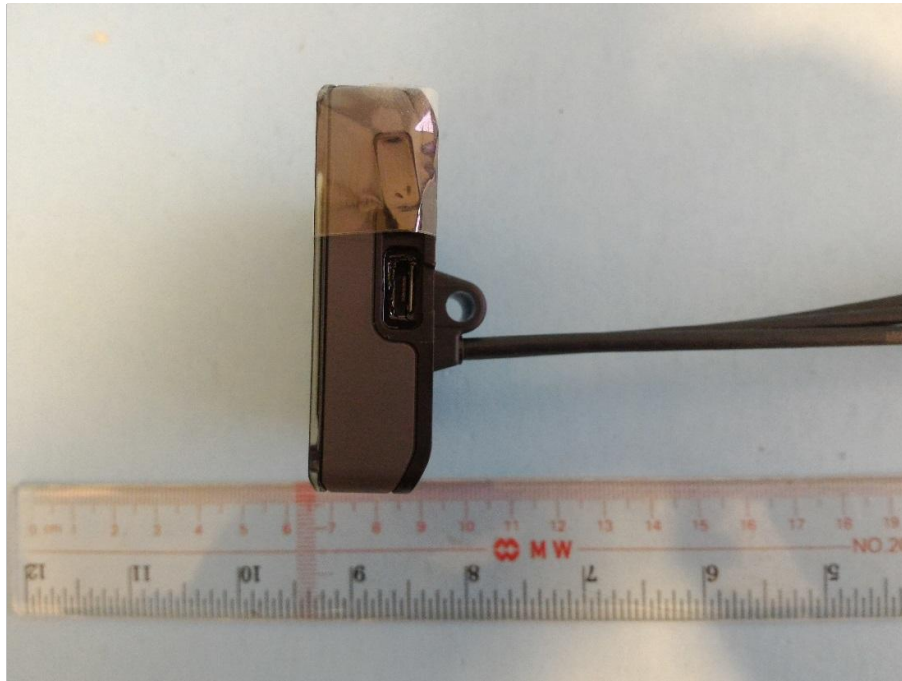
8 Appendix A - Photographs of EUT



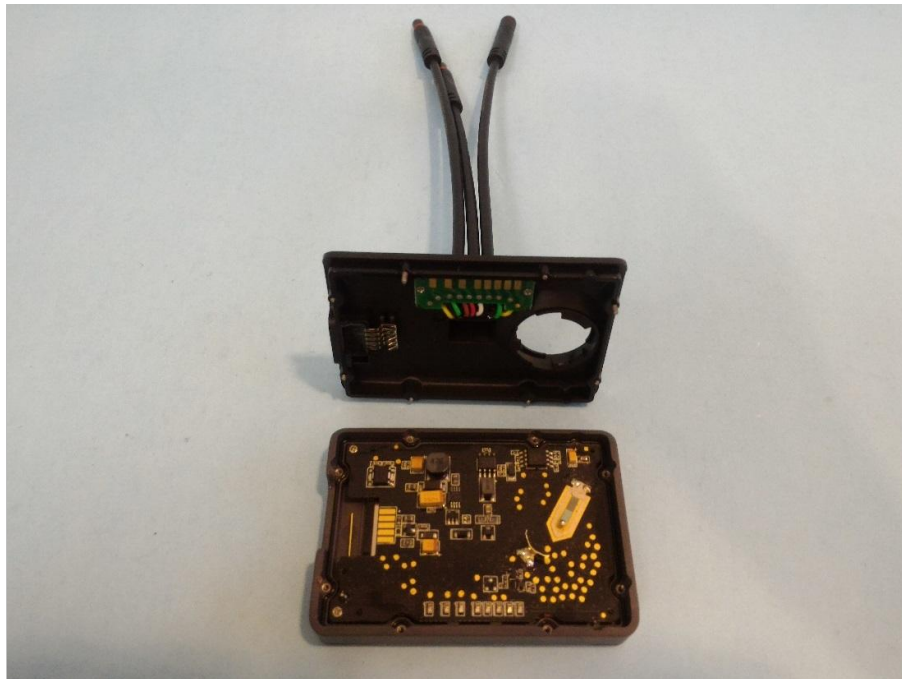
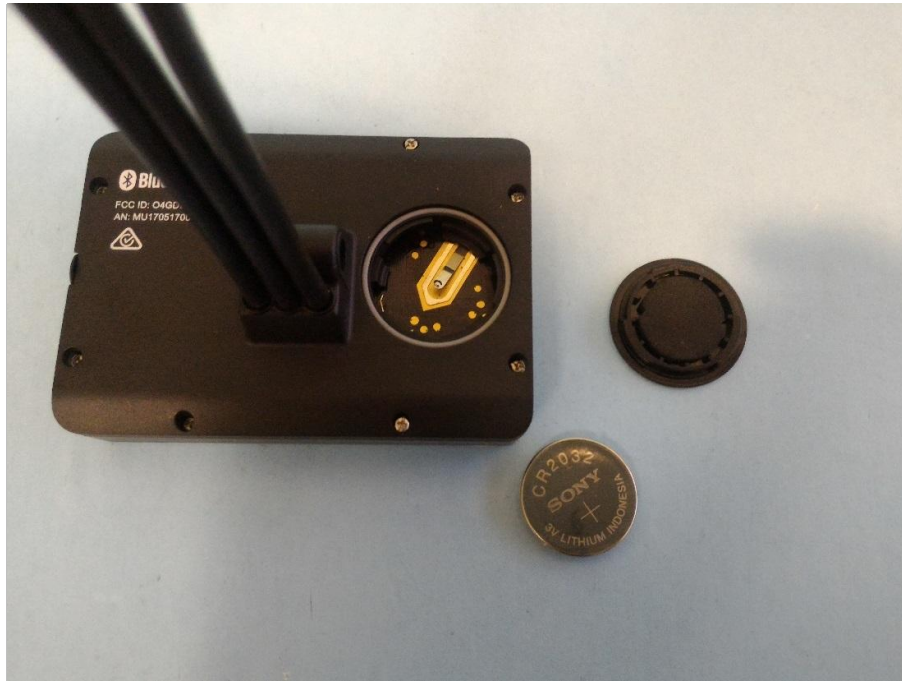
Appendix A



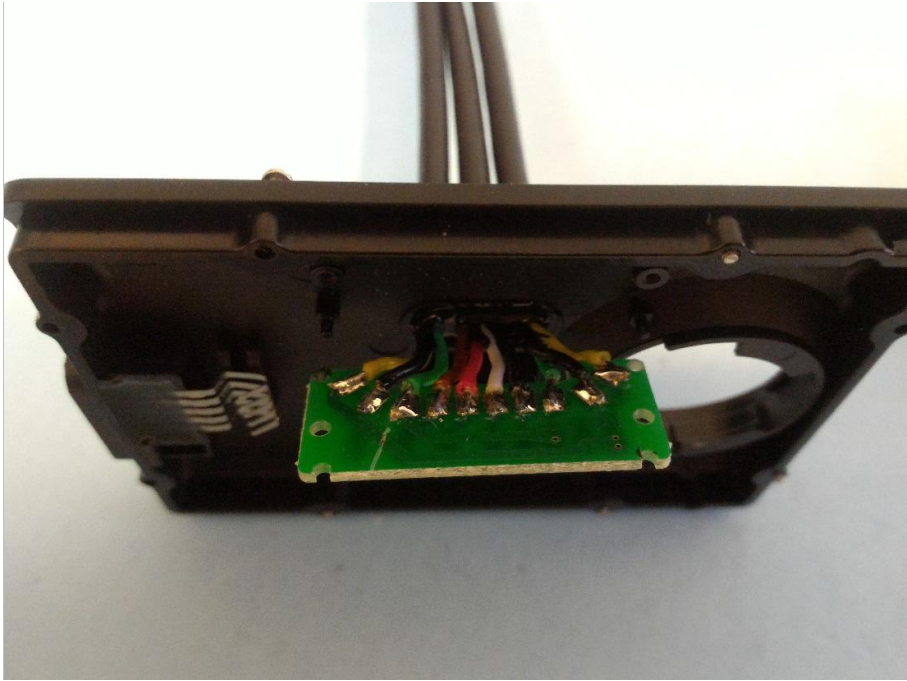
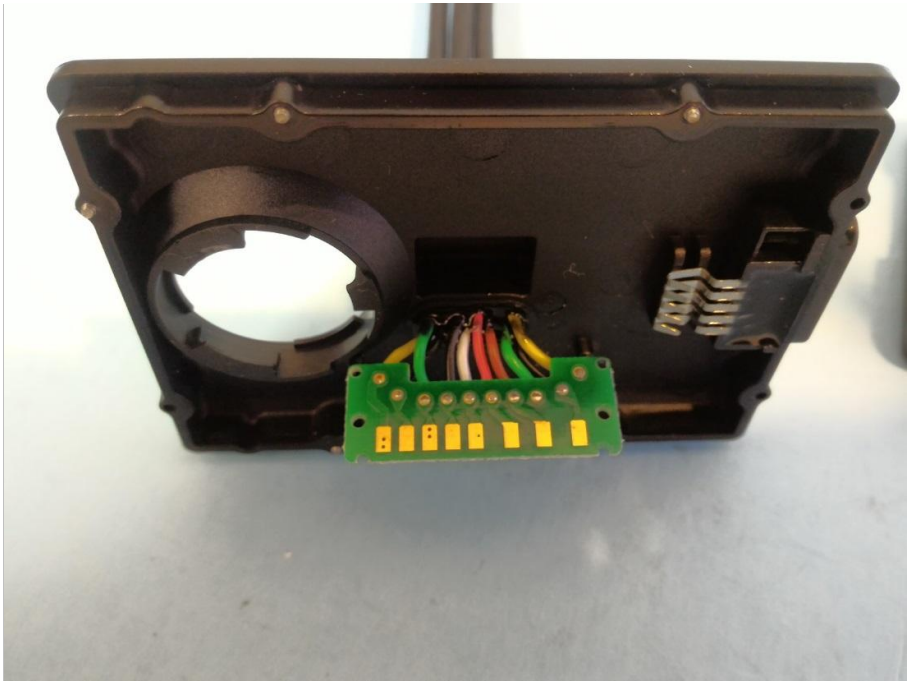
Appendix A



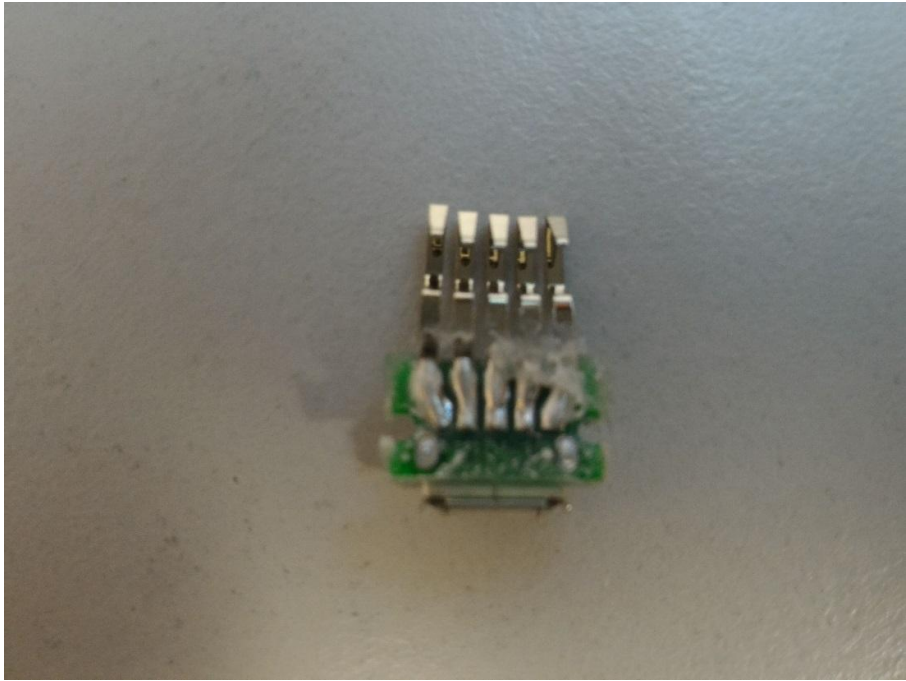
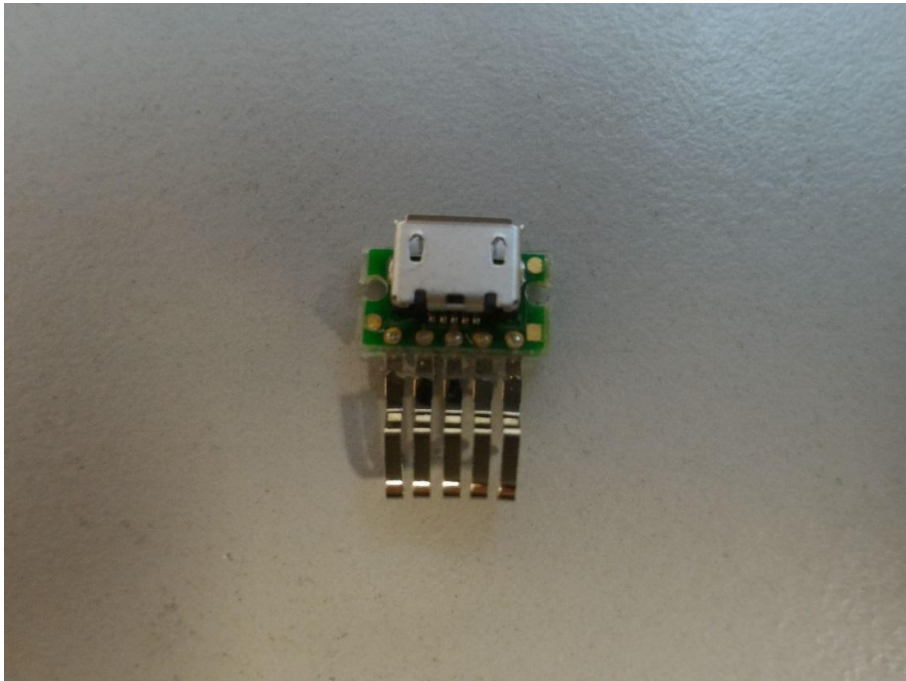
Appendix A



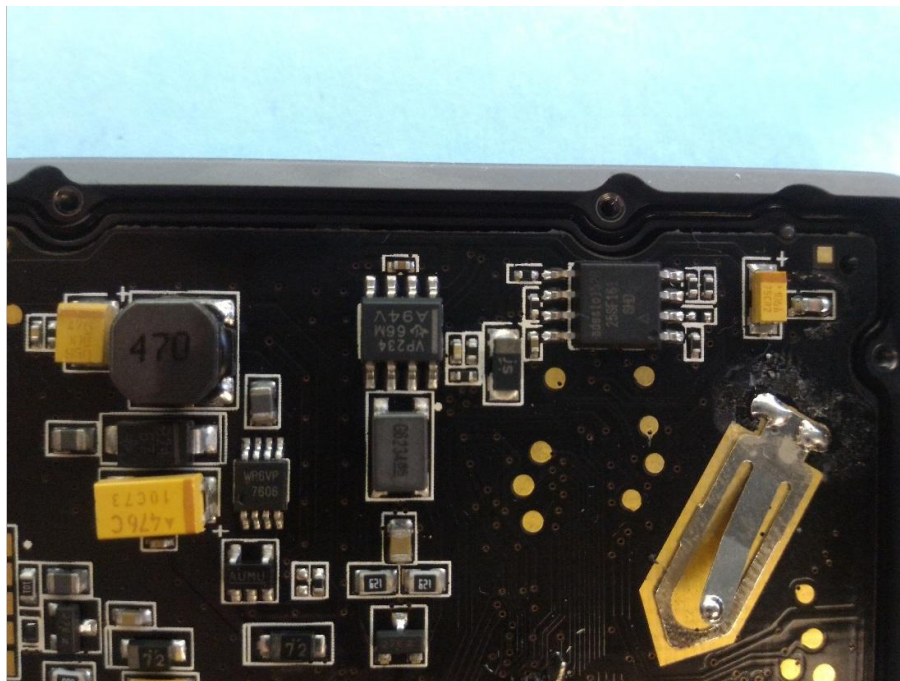
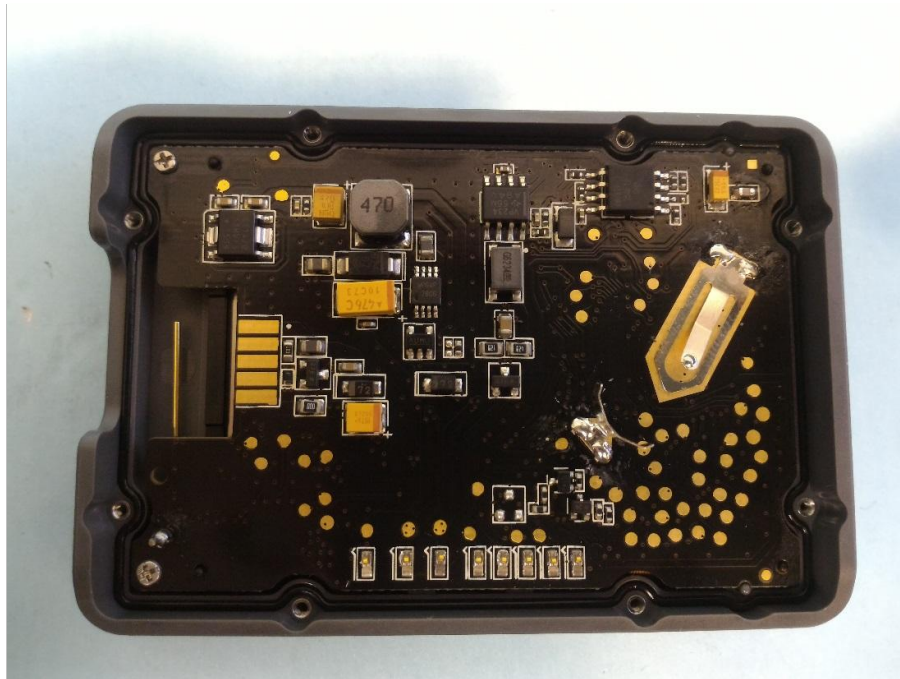
Appendix A



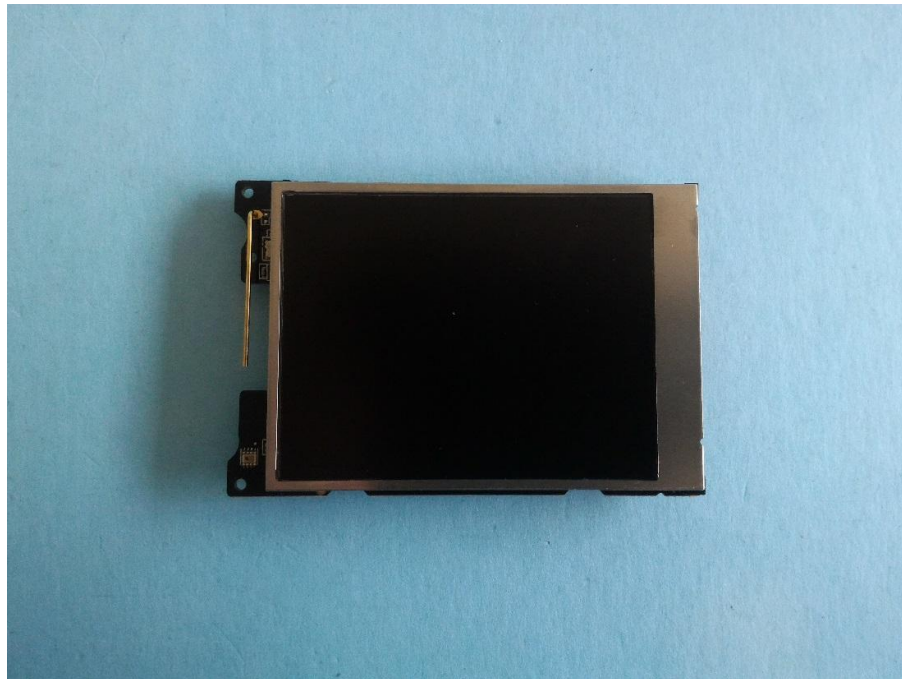
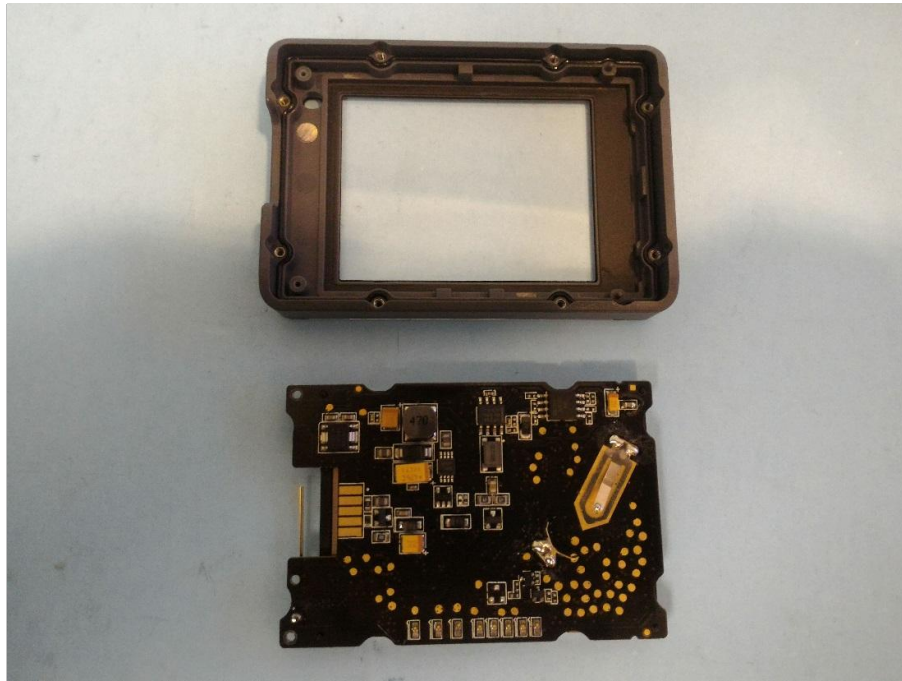
Appendix A



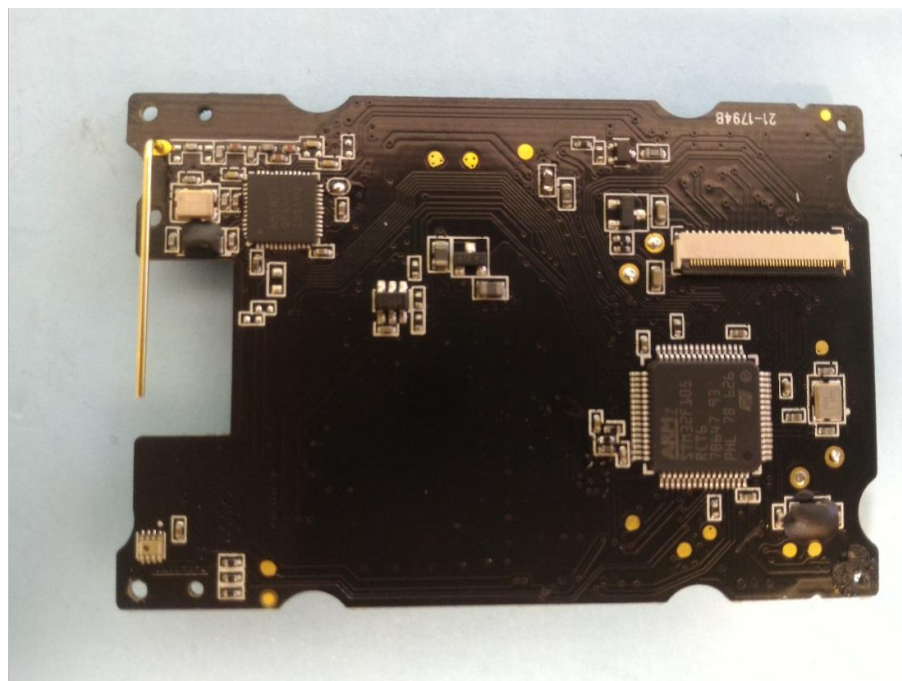
Appendix A



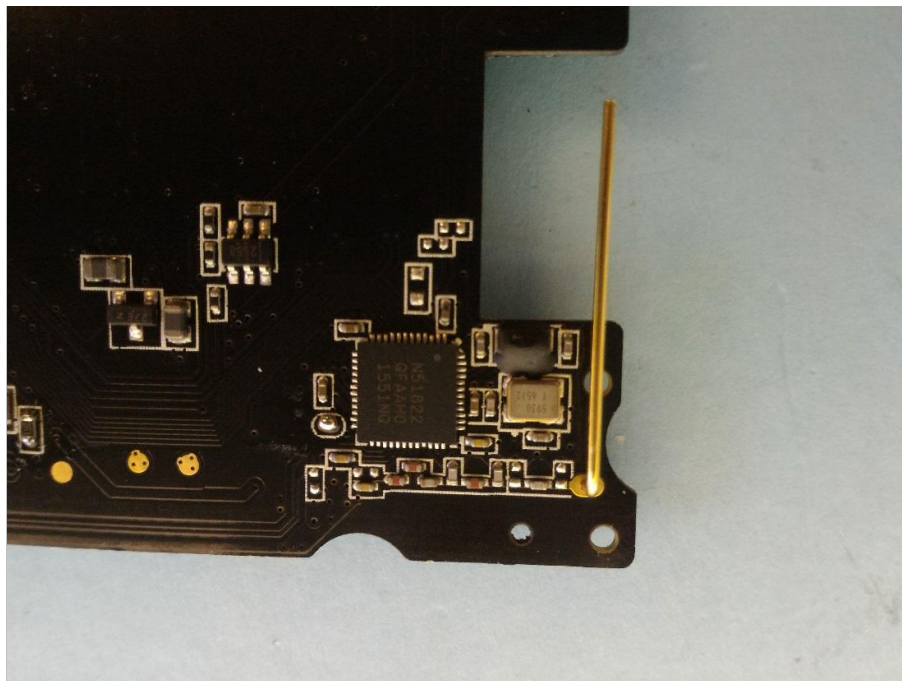
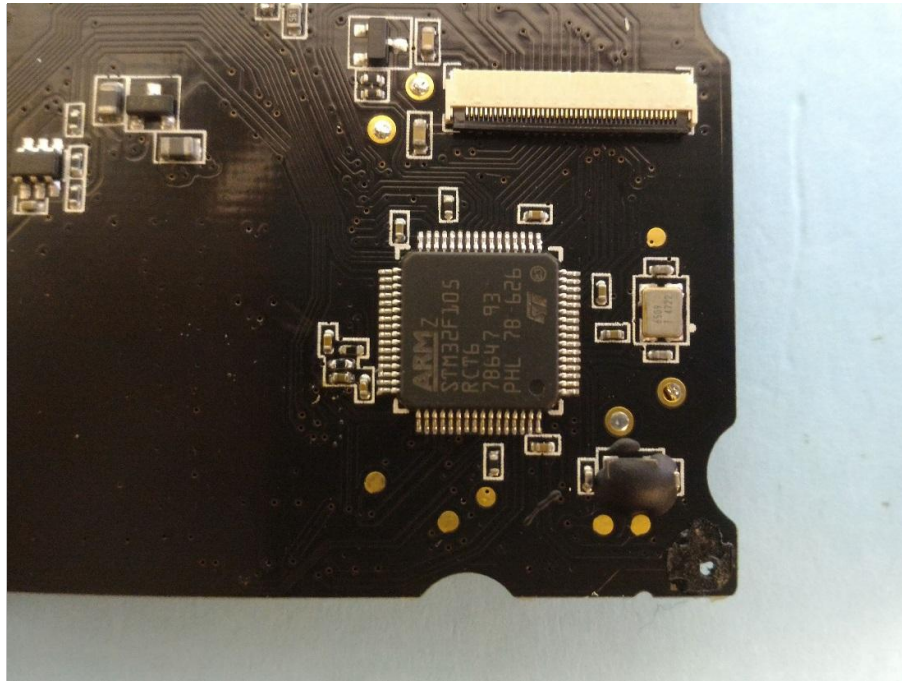
Appendix A



Appendix A

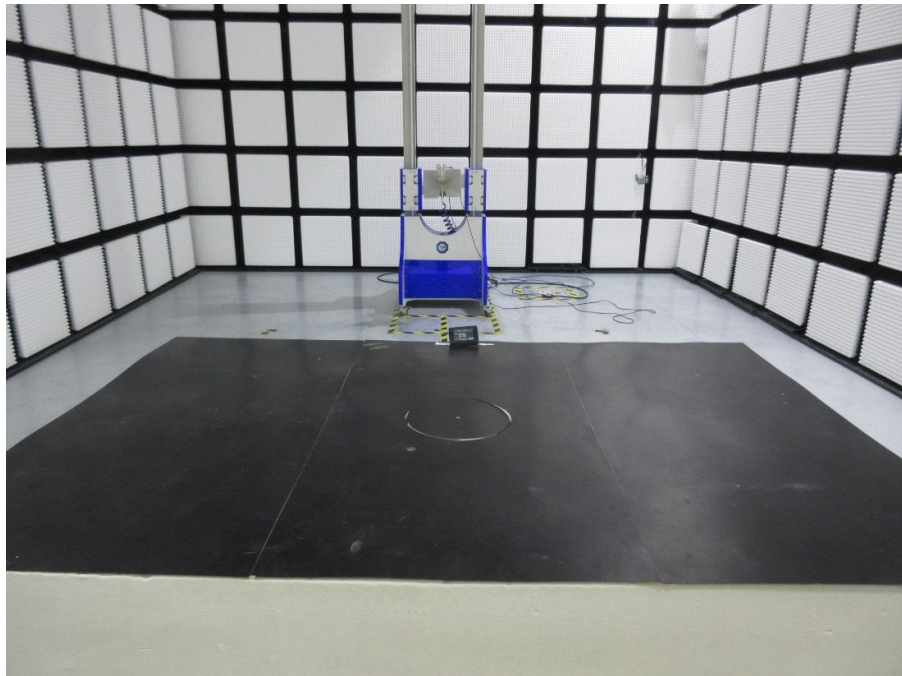


Appendix A

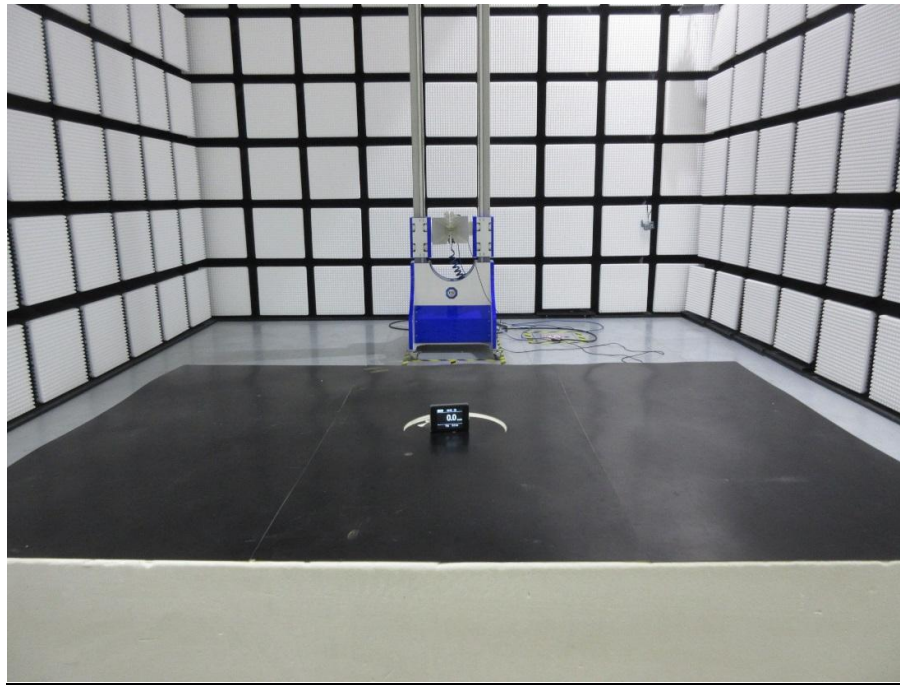


9 Appendix B - Setup Photographs of EUT

Spurious Radiated Emission



Appendix B



**20dB & 99% Bandwidth, Peak Output Power,
Spurious Emissions at Antenna Terminals,
100kHz Bandwidth of band edges, Min. No. of Hopping Frequencies,
Min. Hopping Channel Carrier Frequency Separation, Average Time of Occupancy**



10 Appendix C - General Product Information

Radiofrequency radiation exposure evaluation

According to KDB 447498 D01v06 section 4.3.1, For frequencies between 100 MHz to 6GHz and test separation distances ≤ 50 mm, the Numeric threshold is determined as:

Step a)

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR

>> The fundamental frequency of the EUT is 2402-2480MHz,
the test separation distance is ≤ 50 mm.
(Manufacturer specified the separation distance is: 20mm)

Step a)

>> Numeric threshold (2402MHz), $\text{mW} / 20\text{mm} \cdot \sqrt{2.402\text{GHz}} \leq 3.0$
Numeric threshold (2402MHz) $\leq 38.713\text{mW}$

>> Numeric threshold (2440MHz), $\text{mW} / 20\text{mm} \cdot \sqrt{2.440\text{GHz}} \leq 3.0$
Numeric threshold (2440MHz) $\leq 38.411\text{mW}$

>> Numeric threshold (2480MHz), $\text{mW} / 20\text{mm} \cdot \sqrt{2.480\text{GHz}} \leq 3.0$
Numeric threshold (2480MHz) $\leq 38.100\text{mW}$

>> The power of EUT measured (2402MHz) is: $-0.05\text{dBm} = 0.989\text{mW}$
The power of EUT measured (2440MHz) is: $-0.17\text{dBm} = 0.962\text{mW}$
The power of EUT measured (2480MHz) is: $0.34\text{dBm} = 1.081\text{mW}$
Which is smaller than the Numeric threshold.
Therefore, the device is exempt from stand-alone SAR test requirements.

Appendix C

To: TÜV SÜD HKG Ltd.

Attention: **Mr. Edmond Fung**
From: **Mr. Wong Lap Fai**
Fax No:

Date: November 25, 2016
Total Page (Cover Included): 1

Declaration Letter

Subject:

We:

Officially notify TÜV SÜD HKG Ltd. that the <<Additional Model>> have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction, with <<PRODUCT>>, <<Main Test Model>>. The difference lies only on disable a signal cable.

<<Additional Model >>: MU170517005

<<Main Test Model >>: MU170517006

<<Product>>: E-Bike computer

Applicant:

25 Nov 2016
(Date)

 
(Applicant's authorized signature and company Chop)