

FCC - TEST REPORTReport Number : **60.960.16.022.02R01** Date of Issue : February 20, 2016Model : Coach SmartProduct Type : Bike ComputerApplicant : Dayton Industrial Co., LtdAddress : 2-12 Kwai Fat Road, 11-A Kwai Chung, New Territories, Hong KongProduction Facility : Kendy Enterprise LtdAddress : 2-12 Kwai Fat Road, 11-A Kwai Chung, New Territories, Hong KongTest Result : Positive NegativeTotal pages including Appendices : 45

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2 Description of Equipment Under Test

Description of the Equipment Under Test

Product:	Bike Computer
Model no.:	Coach Smart
FCC ID:	O4G-MS279
Rating:	3.0VDC (1 x 3.0VDC size "CR2032" batteries)
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 10-1-14 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)(2) 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 3

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	17-Aug-16
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	17-Aug-17
Horn Antenna	Rohde & Schwarz	HF907	102294	17-Aug-17
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	17-Aug-16
3m Semi-anechoic chamber	TDK	9X6X6	----	29-May-19

6dB & 99% Bandwidth, Peak Output Power, Spurious Emissions at Antenna Terminals, 100kHz Bandwidth of band edges, Power Spectral Density – Site 3

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Signal Generator	Rohde & Schwarz	SMB100A	108272	17-Aug-16
Signal Analyzer	Rohde & Schwarz	FSV40	101030	17-Aug-16
Vector Signal Generator	Rohde & Schwarz	SMU 200A	105324	17-Aug-16
RF Switch Module	Rohde & Schwarz	OSP120/OSP-B157	101226/100851	17-Aug-16

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	16-21	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.247(b) Peak Output Power	22-24	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 2.1051 & 15.247(d) Spurious Emissions at Antenna Terminals	25-27	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.247(d) 100kHz Bandwidth of band edges	28-33	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.247(e) Power Spectral Density	34-36	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.203 & 15.247(b) Antenna Requirement	37	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6 General Remarks

Remarks

NIL

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.

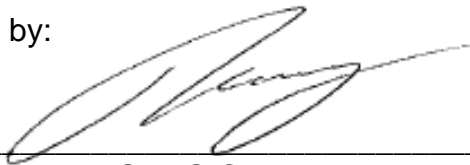
Sample Received Date: January 28, 2016

Testing Start Date: January 29, 2016

Testing End Date: February 16, 2016

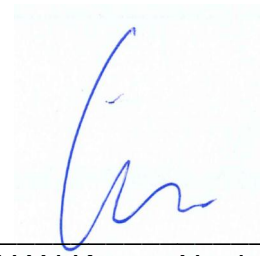
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Reviewed by:



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EMC Project Engineer

Prepared by:



CHAN Kwong Ngai
EMC Test Engineer

7 Emission Test Results

7.1 Spurious Radiated Emission

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Horizontal
 Comment: 3.0VDC
 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
50.352	15.61	40	-24.39	Quasi Peak
94.260	11.32	43.5	-32.18	Quasi Peak
279.654	16.32	46	-29.68	Quasi Peak
855.172	25.26	46	-20.74	Quasi Peak
4804.000	58.21	74	-15.79	Peak
4804.000	41.00	54	-13.00	Average
7206.000	61.82	74	-12.18	Peak
7206.000	45.71	54	-8.29	Average

Spurious Radiated Emission

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Vertical
 Comment: 3.0VDC
 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
49.860	14.13	40	-25.87	Quasi Peak
101.260	16.20	43.5	-27.30	Quasi Peak
280.540	16.89	46	-29.11	Quasi Peak
723.600	21.03	46	-24.97	Quasi Peak
4804.000	56.41	74	-17.59	Peak
4804.000	40.32	54	-13.68	Average
7206.000	60.12	74	-13.88	Peak
7206.000	43.21	54	-10.79	Average

Spurious Radiated Emission

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Horizontal
 Comment: 3.0VDC
 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
50.352	15.61	40	-24.39	Quasi Peak
94.260	11.32	43.5	-32.18	Quasi Peak
279.654	16.32	46	-29.68	Quasi Peak
855.172	25.26	46	-20.74	Quasi Peak
4879.150	57.36	74	-16.64	Peak
4879.150	40.51	54	-13.49	Average
7319.500	60.13	74	-13.87	Peak
7319.500	41.21	54	-12.79	Average

Spurious Radiated Emission

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Vertical
 Comment: 3.0VDC
 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
49.860	14.13	40	-25.87	Quasi Peak
101.260	16.20	43.5	-27.30	Quasi Peak
280.540	16.89	46	-29.11	Quasi Peak
723.600	21.03	46	-24.97	Quasi Peak
4879.220	55.93	74	-18.07	Peak
4879.220	40.17	54	-13.83	Average
7319.450	60.15	74	-13.85	Peak
7319.450	41.03	54	-12.97	Average

Spurious Radiated Emission

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Horizontal
 Comment: 3.0VDC
 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
50.352	15.61	40	-24.39	Quasi Peak
94.260	11.32	43.5	-32.18	Quasi Peak
279.654	16.32	46	-29.68	Quasi Peak
855.172	25.26	46	-20.74	Quasi Peak
4960.000	56.31	74	-17.69	Peak
4960.000	44.32	54	-9.68	Average
7440.000	61.58	74	-12.42	Peak
7400.000	48.26	54	5.74	Average

Spurious Radiated Emission

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d) Antenna: Vertical
 Comment: 3.0VDC
 Remark: 9kHz to 25GHz

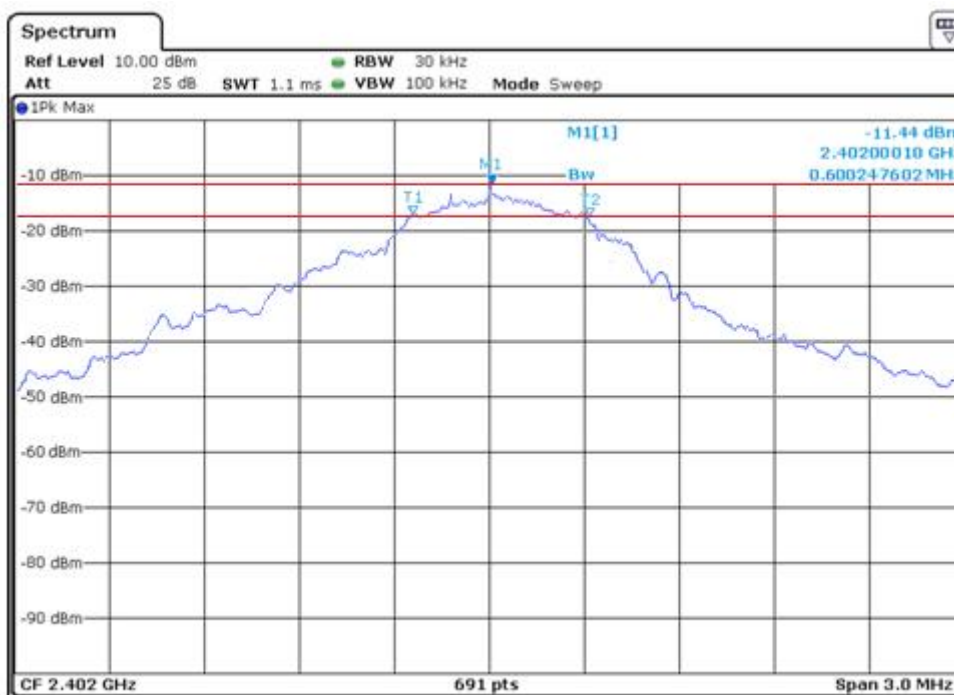
Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Frequency MHz	Result dBμV/m	Limit dBμV/m	Margin dB	Detector
49.860	14.13	40	-25.87	Quasi Peak
101.260	16.20	43.5	-27.30	Quasi Peak
280.540	16.89	46	-29.11	Quasi Peak
723.600	21.03	46	-24.97	Quasi Peak
4960.000	55.71	74	-18.29	Peak
4960.000	44.13	54	-9.87	Average
7440.000	62.44	74	-11.56	Peak
7440.000	47.98	54	-6.02	Average

7.2 6dB & 99% Bandwidth

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(a)(2), 6dB Bandwidth
 Comment: 3.0VDC

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

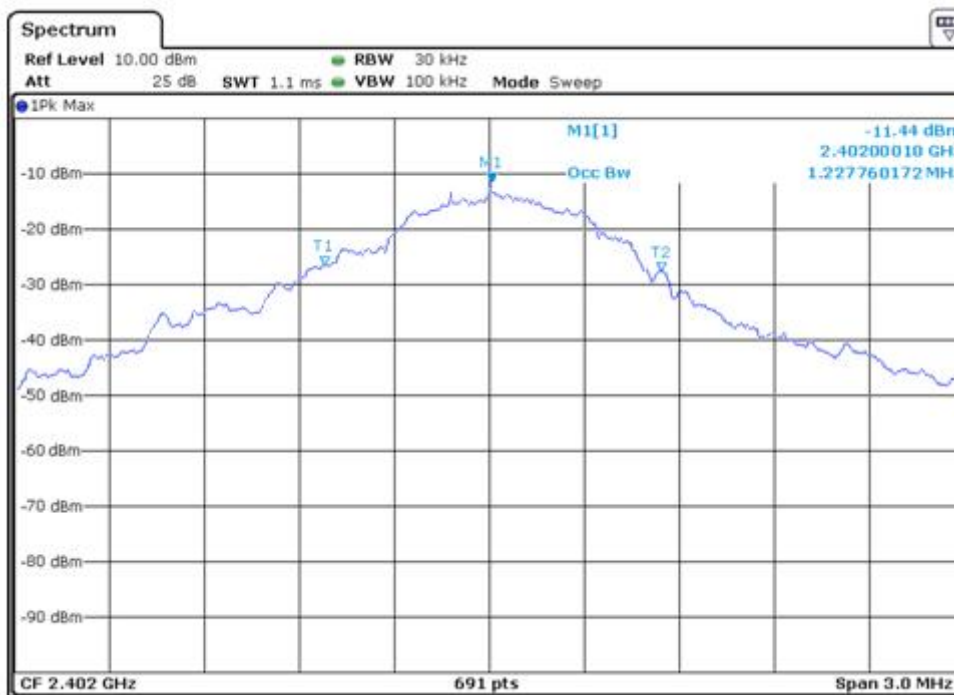


6dB bandwidth	Limit
600.247 kHz	> 500 kHz

6dB & 99% Bandwidth

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(a)(2), 99% Bandwidth
 Comment: 3.0VDC

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

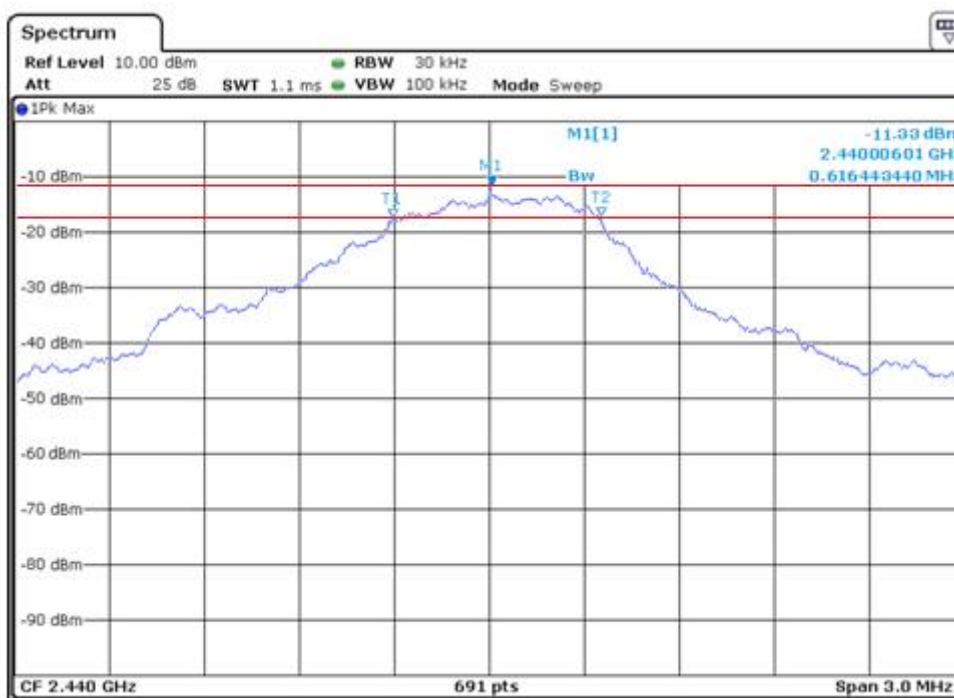


99% bandwidth
1227.760 kHz

6dB & 99% Bandwidth

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.247(a)(2), 6dB Bandwidth
 Comment: 3.0VDC

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

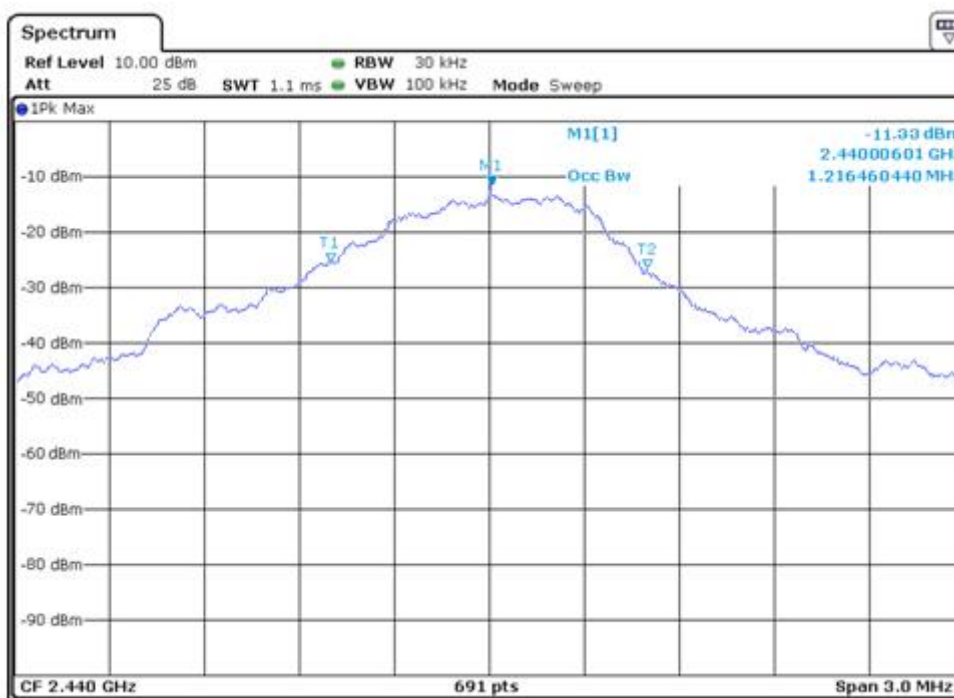


6dB bandwidth	Limit
616.443 kHz	> 500 kHz

6dB & 99% Bandwidth

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.247(a)(2), 99% Bandwidth
 Comment: 3.0VDC

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

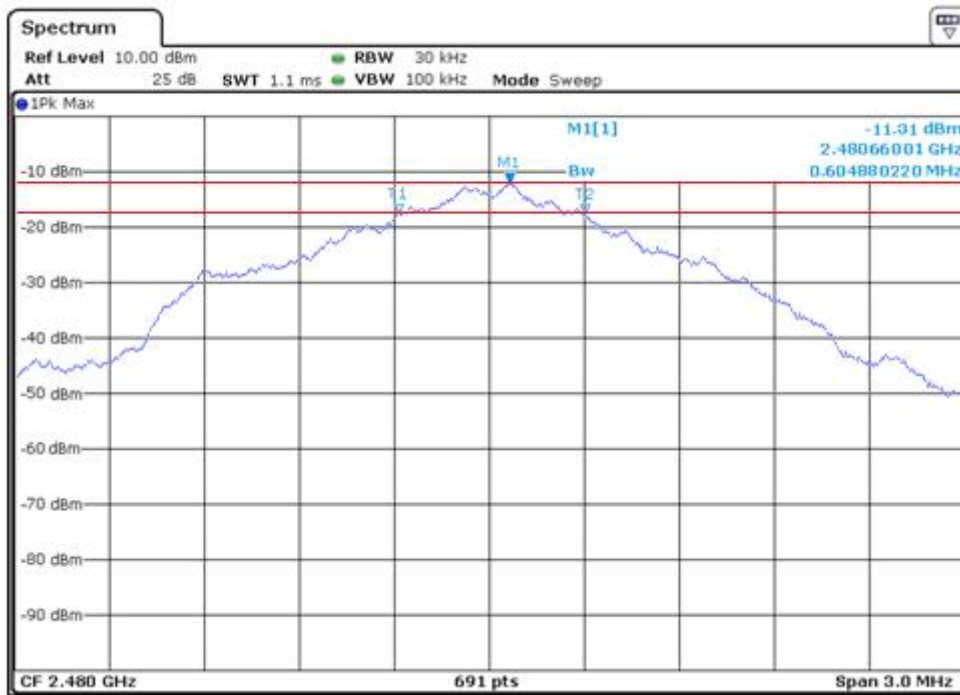


99% bandwidth
1216.460 kHz

6dB & 99% Bandwidth

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(a)(2), 6dB Bandwidth
 Comment: 3.0VDC

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

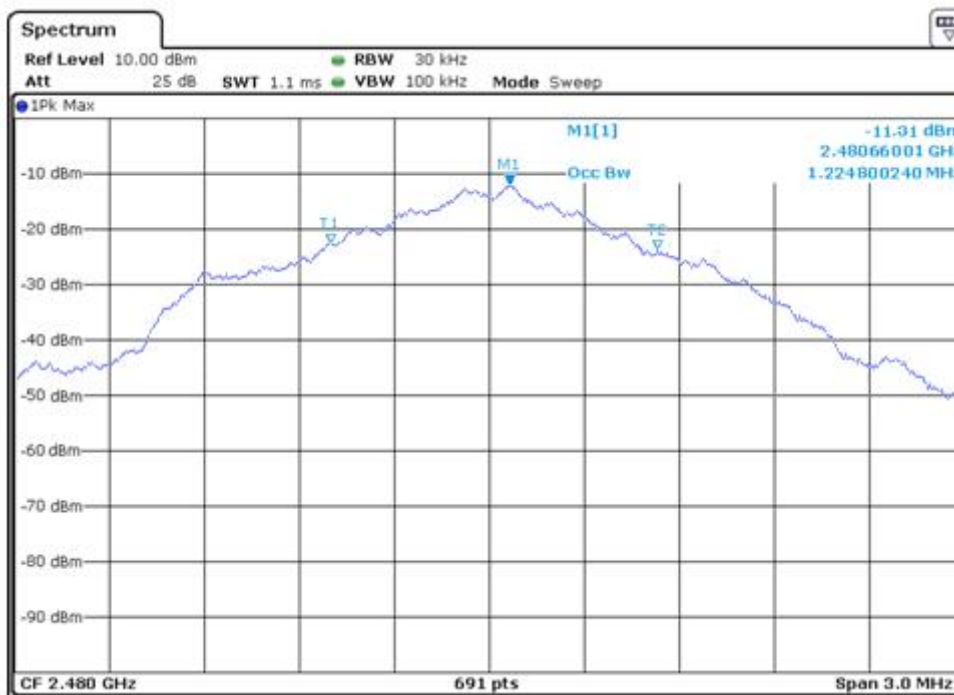


6dB bandwidth	Limit
604.880 kHz	> 500 kHz

6dB & 99% Bandwidth

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(a)(2), 99% Bandwidth
 Comment: 3.0VDC

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

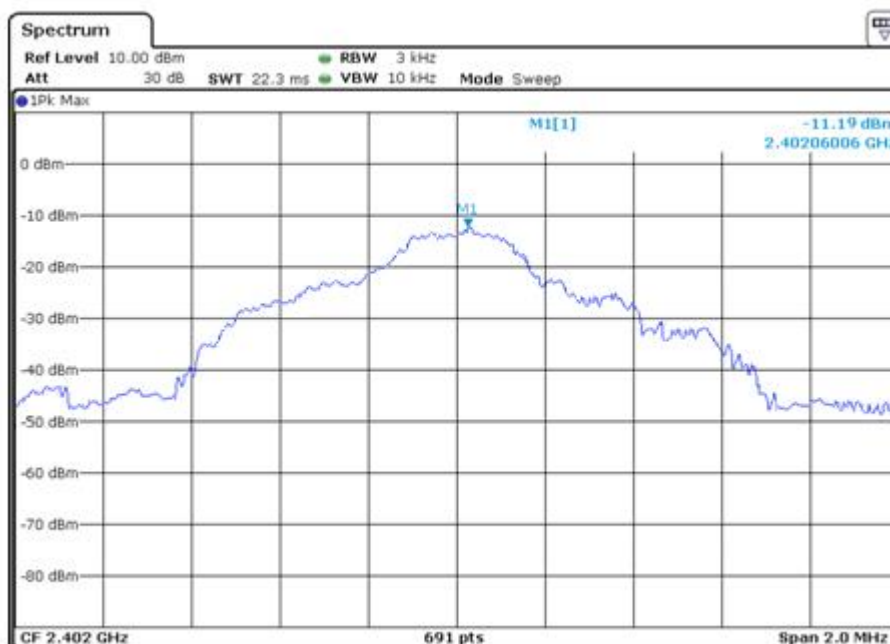


99% bandwidth
1224.800 kHz

7.3 Peak Output Power

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(b)
 Comment: 3.0VDC

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



Conducted Output Power	Limit
-11.19 dBm	< 30dBm

Peak Output Power

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.247(b)
 Comment: 3.0VDC

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

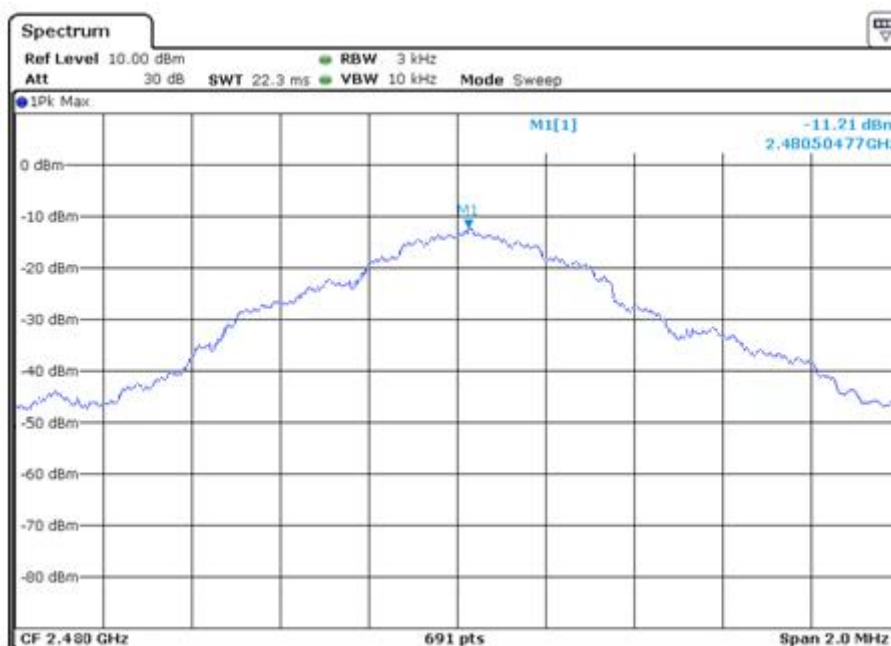


Conducted Output Power	Limit
-11.23 dBm	< 30dBm

Peak Output Power

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(b)
 Comment: 3.0VDC

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

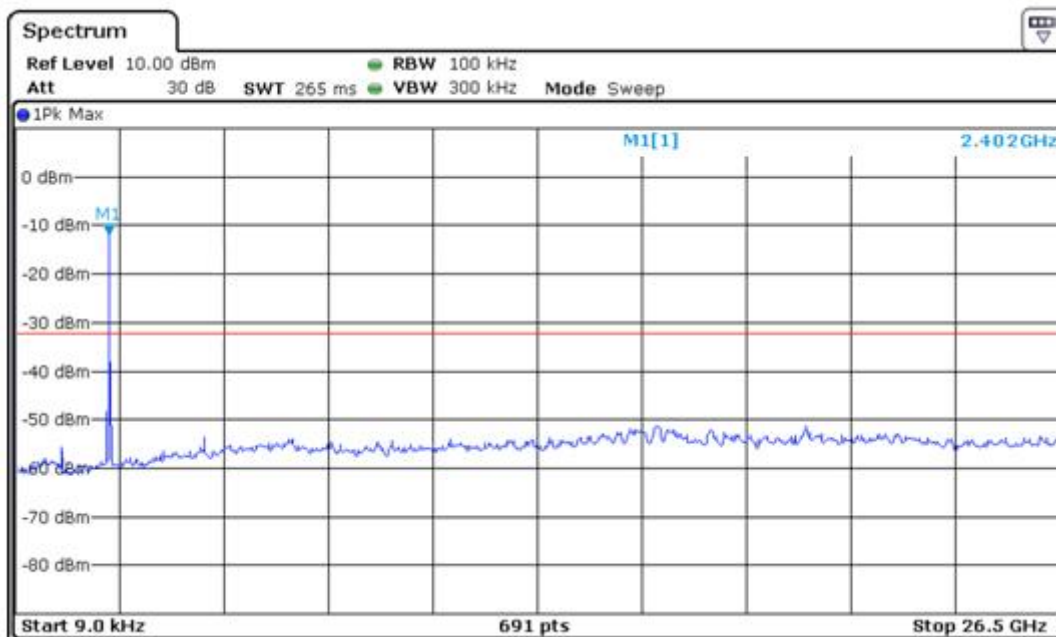


Conducted Output Power	Limit
-11.21 dBm	< 30dBm

7.4 Spurious Emissions at Antenna Terminals

EUT: Coach Smart
Op Condition: Operated, TX Mode (2402MHz)
Test Specification: FCC2.1051 & 15.247(d)
Comment: 3.0VDC
Remark: 9kHz to 26.5GHz

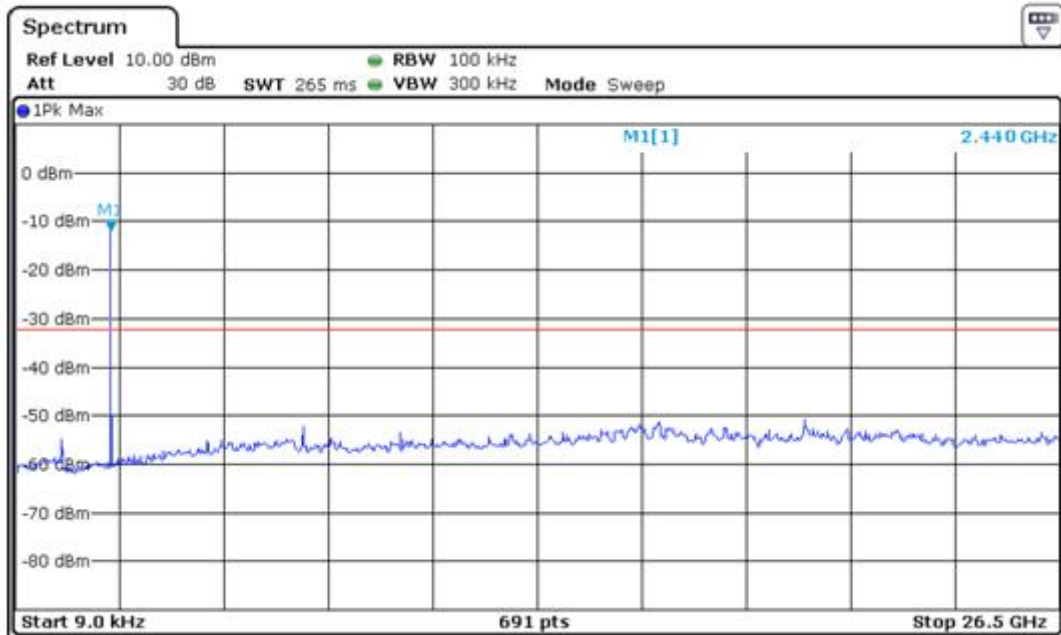
Test Result
<input checked="" type="checkbox"/> Passed
<input type="checkbox"/> Not Passed



Spurious Emissions at Antenna Terminals

EUT: Coach Smart
Op Condition: Operated, TX Mode (2440MHz)
Test Specification: FCC2.1051 & 15.247(d)
Comment: 3.0VDC
Remark: 9kHz to 26.5GHz

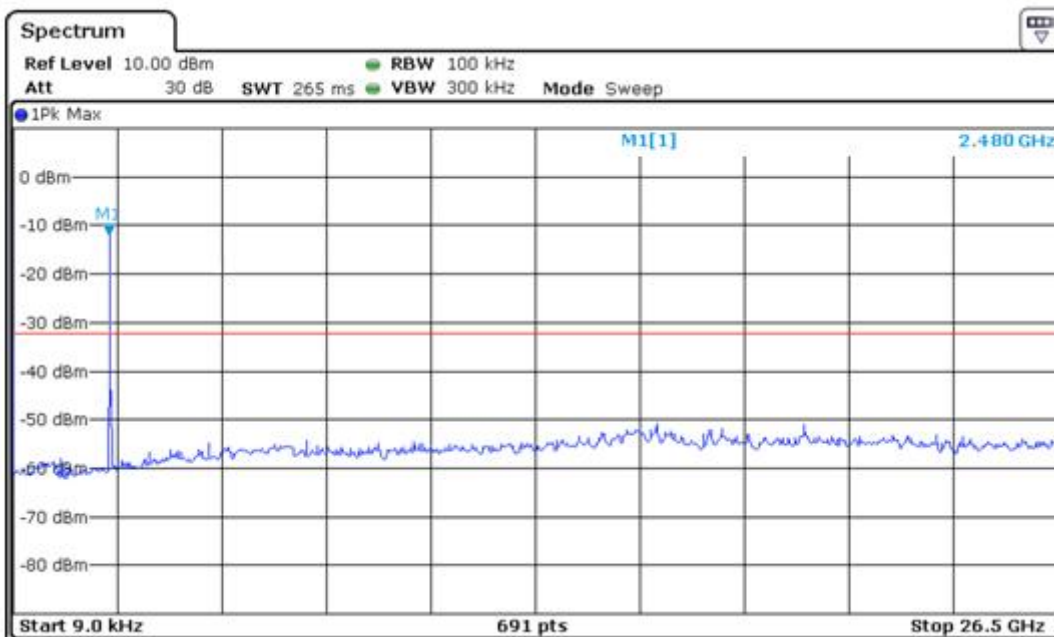
Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



Spurious Emissions at Antenna Terminals

EUT: Coach Smart
Op Condition: Operated, TX Mode (2480MHz)
Test Specification: FCC2.1051 & 15.247(d)
Comment: 3.0VDC
Remark: 9kHz to 26.5GHz

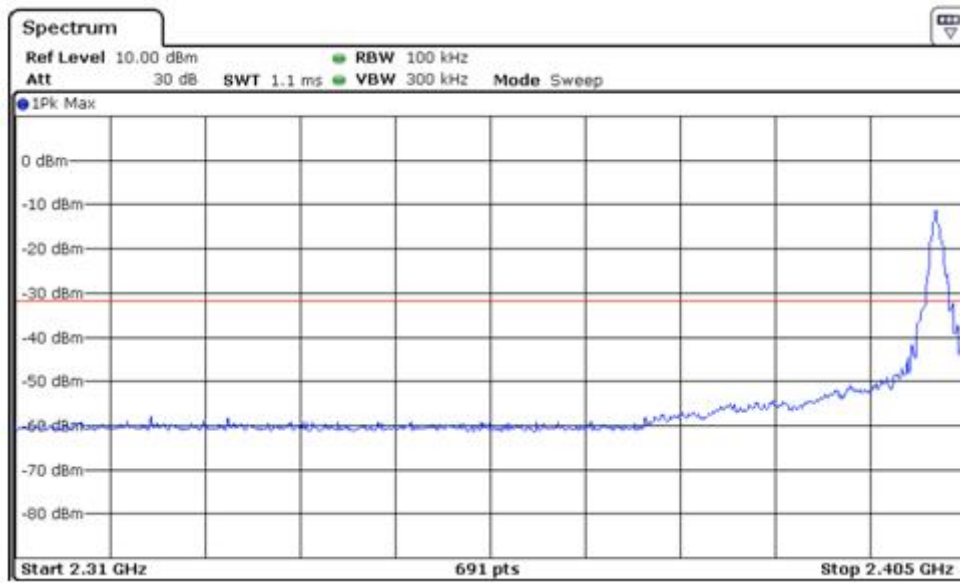
Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



7.5 100kHz Bandwidth of band edges

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(d), Conducted
 Comment: 3.0VDC

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



Frequency	Result
2.402 GHz	-11.28 dBm
2.390 GHz	-50.53 dBm

Band edges	Limit
39.25 dB	> 20dB



China

100kHz Bandwidth of band edges

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(d), Radiated, Antenna: Horizontal
 Comment: 3.0VDC

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

Band	Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
Low	2390.000	44.72	74	-29.28	Peak
Low	2390.000	30.28	54	-23.72	Average



China

100kHz Bandwidth of band edges

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(d), Radiated, Antenna: Vertical
 Comment: 3.0VDC

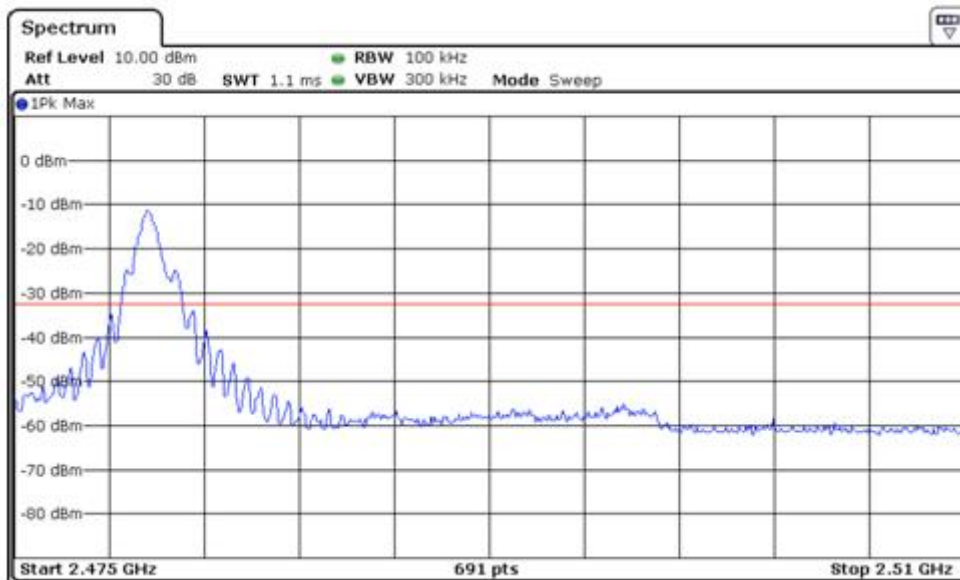
Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Band	Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
Low	2390.000	43.52	74	-30.48	Peak
Low	2390.000	29.93	54	-24.07	Average

100kHz Bandwidth of band edges

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(d), Conducted
 Comment: 3.0VDC

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



Frequency	Result
2.480 GHz	-11.32 dBm
2.4835 GHz	-50.55 dBm

Band edges	Limit
-39.23 dB	> 20dB



China

100kHz Bandwidth of band edges

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(d), Radiated, Antenna: Horizontal
 Comment: 3.0VDC

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

Band	Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
High	2483.500	45.03	74	-28.97	Peak
High	2483.500	31.52	54	-22.48	Average



China

100kHz Bandwidth of band edges

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(d), Radiated, Antenna: Vertical
 Comment: 3.0VDC

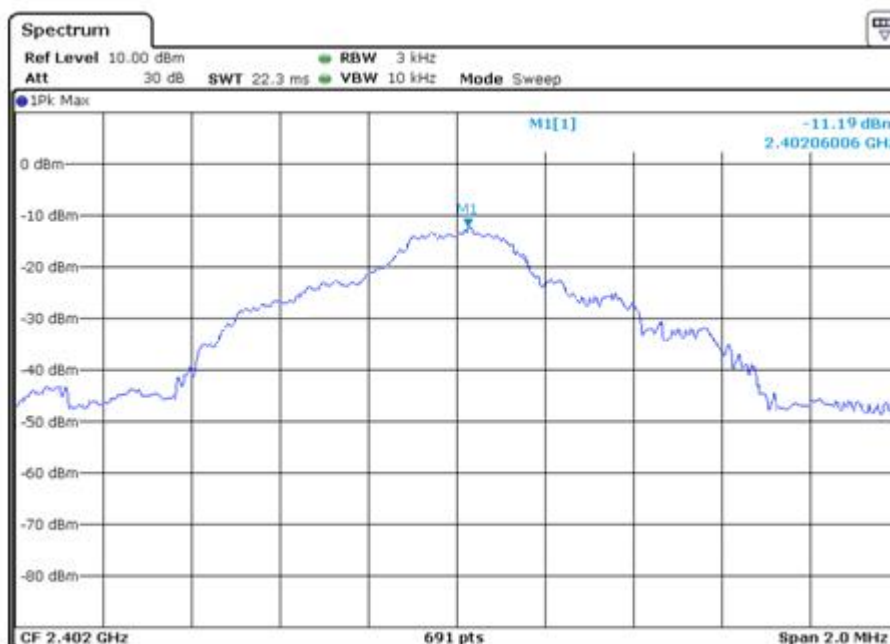
Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

Band	Frequency MHz	Result dB μ V/m	Limit dB μ V/m	Margin dB	Detector
High	2483.500	44.56	74	-29.44	Peak
High	2483.500	31.33	54	-22.67	Average

7.6 Power Spectral Density

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(e)
 Comment: 3.0VDC

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

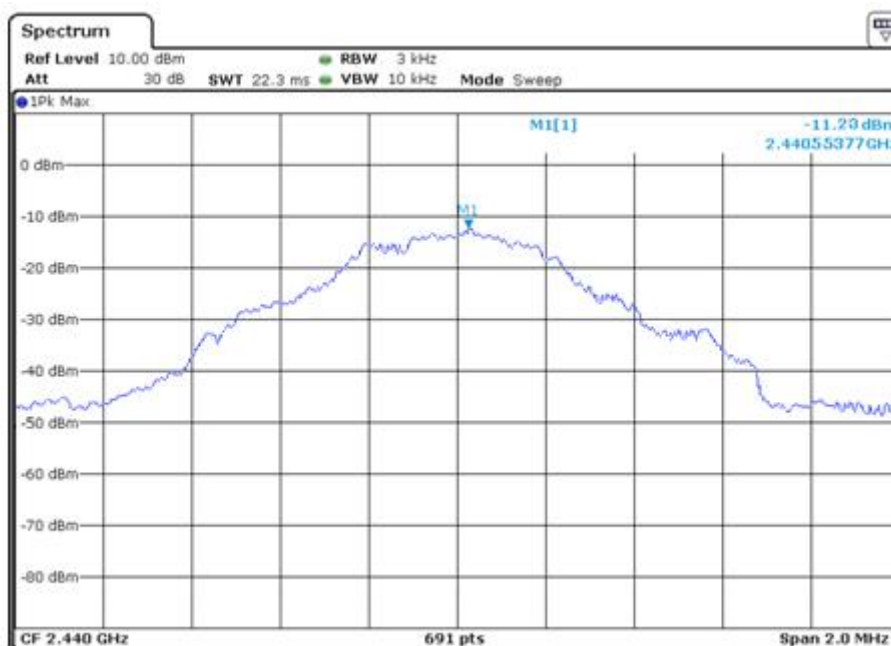


Frequency	PSD	Result
2402MHz	-11.19 dBm / 3kHz	< 8 dBm / 3 kHz

Power Spectral Density

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.247(e)
 Comment: 3.0VDC

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

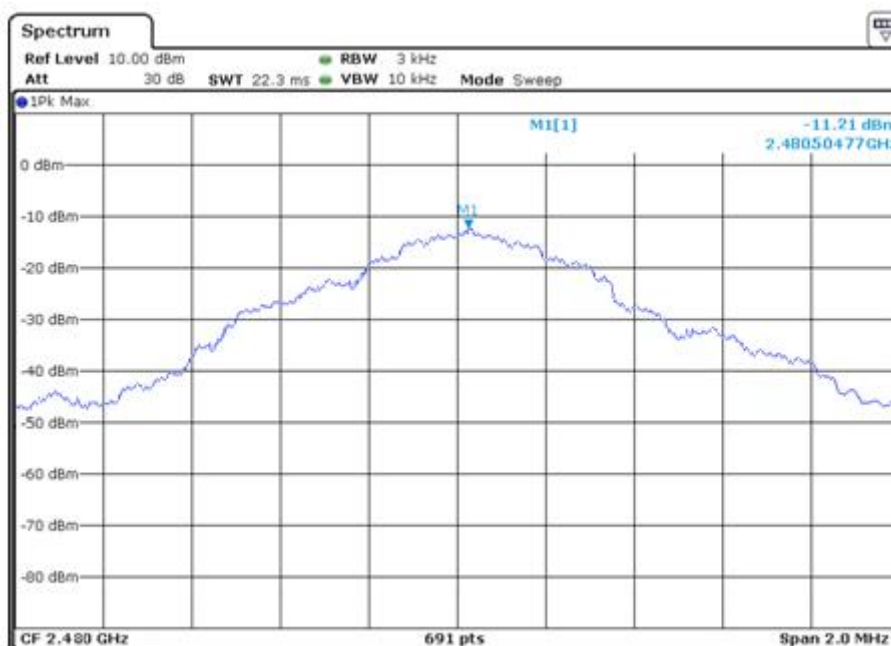


Frequency	PSD	Result
2440MHz	-11.23 dBm / 3kHz	< 8 dBm / 3 kHz

Power Spectral Density

EUT: Coach Smart
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(e)
 Comment: 3.0VDC

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



Frequency	PSD	Result
2480MHz	-11.21 dBm / 3kHz	< 8 dBm / 3 kHz

7.7 Antenna Requirement

EUT: Coach Smart
Op Condition: Operated, TX Mode
Test Specification: FCC15.203 & 15.247(b)
Comment: 3.0VDC

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.

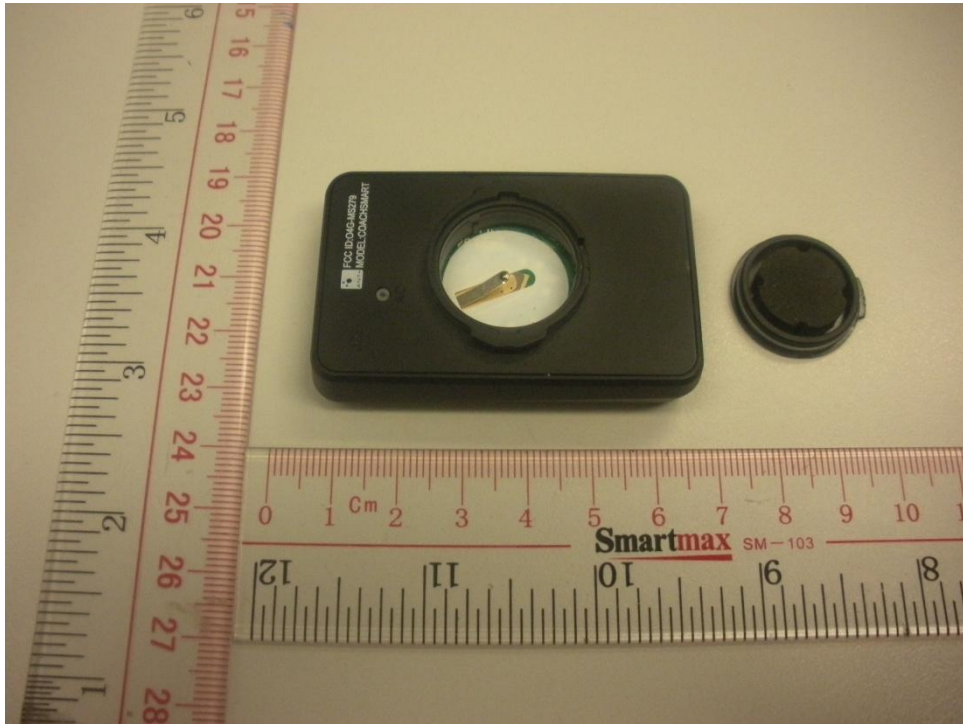
Antenna Connector Construction

The antenna used in this product is PCB antenna, and the maximum gain of this antenna is 0 dBi.

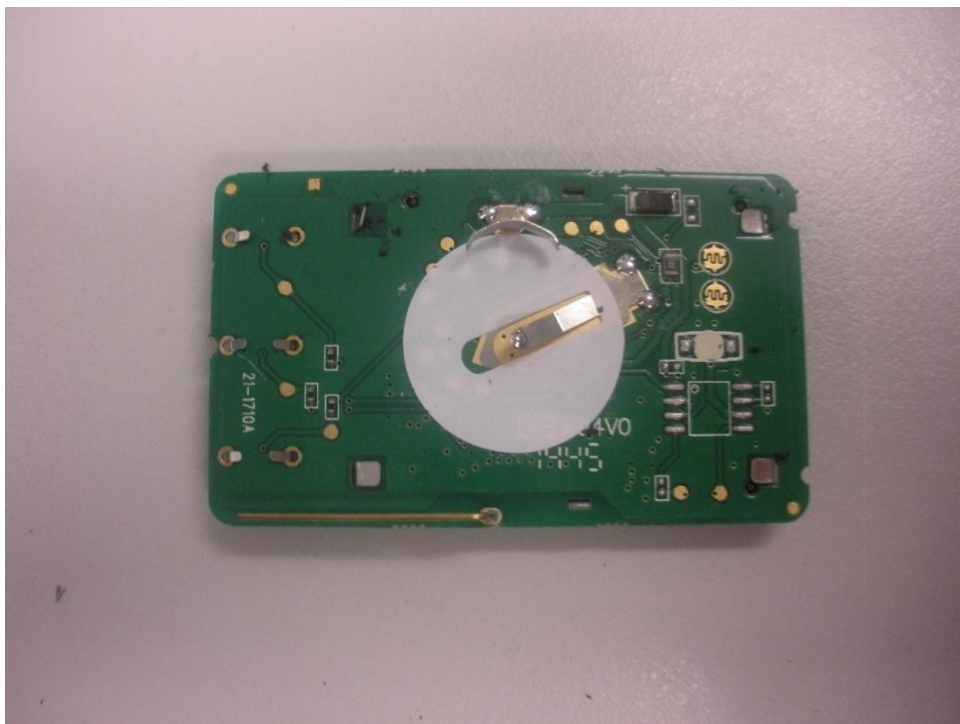
8 Appendix A - Photographs of EUT



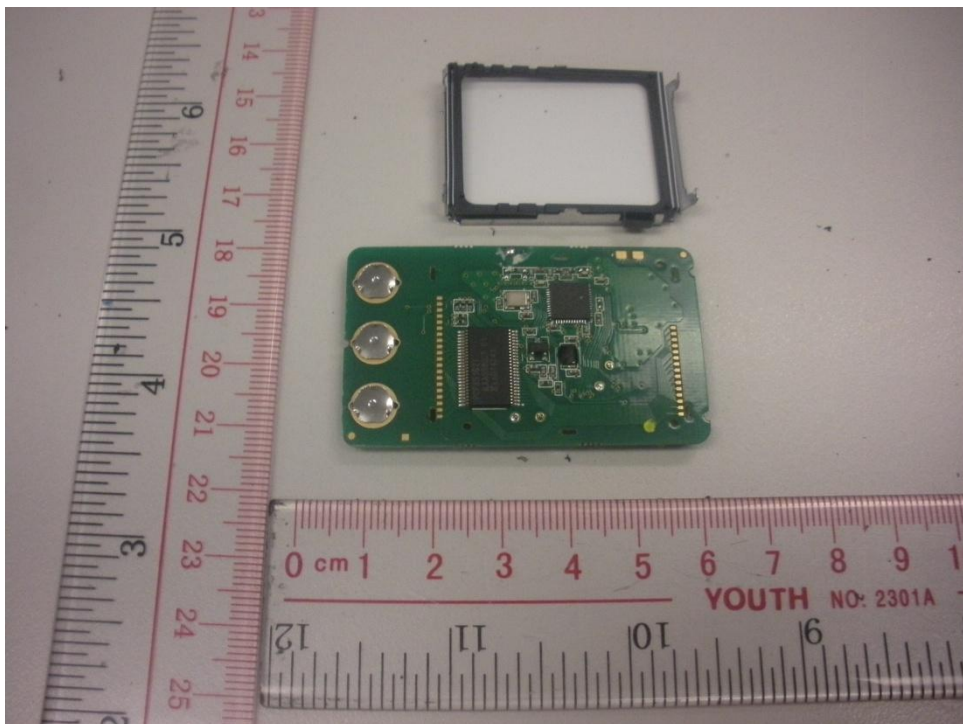
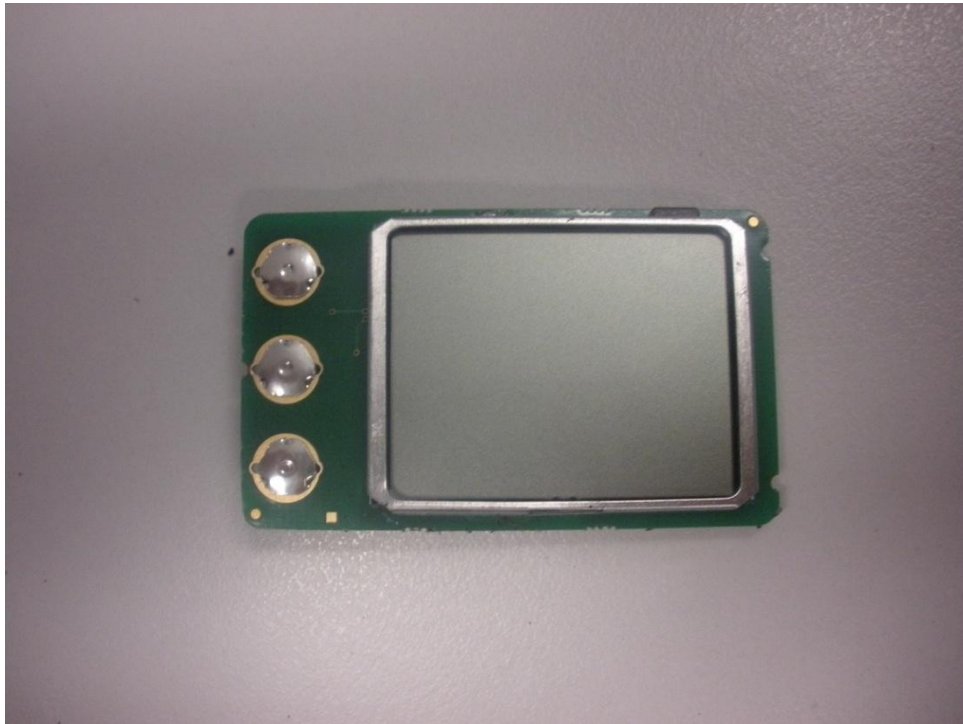
Appendix A



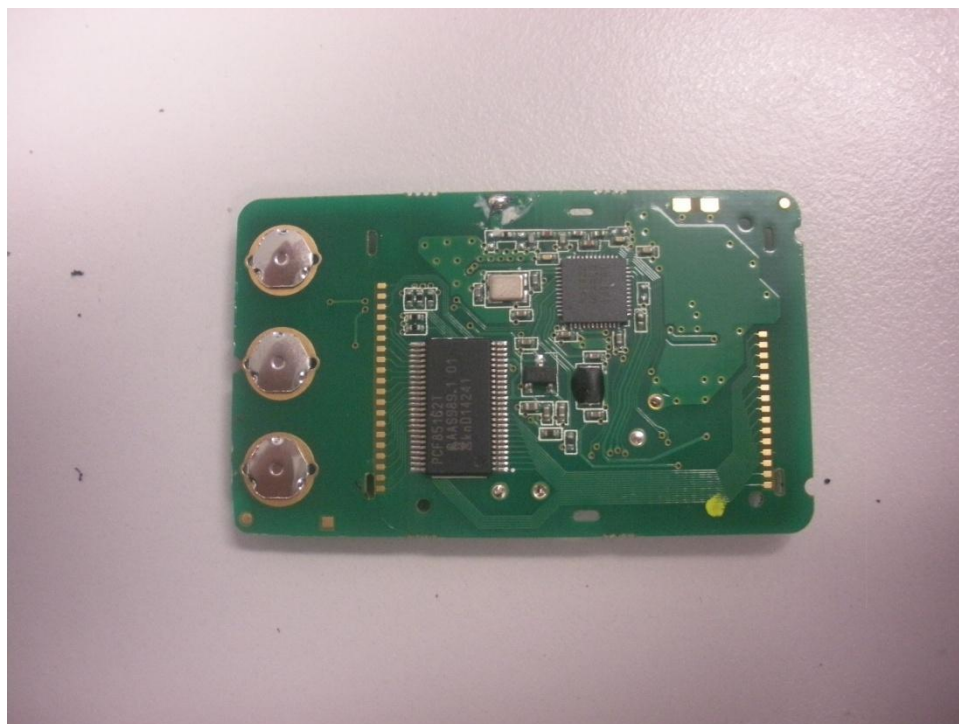
Appendix A



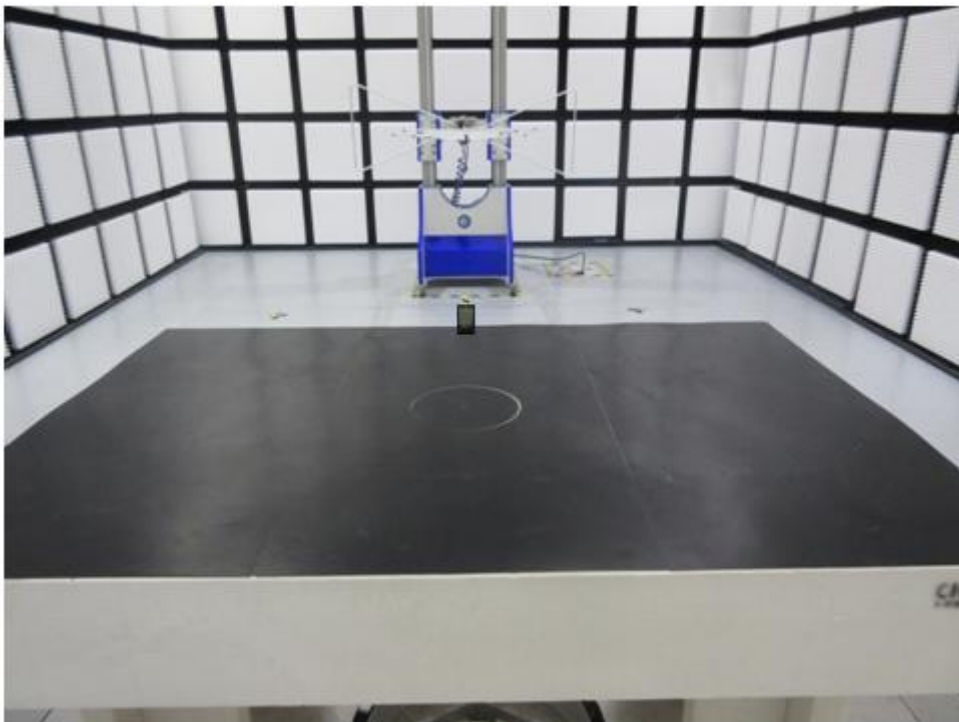
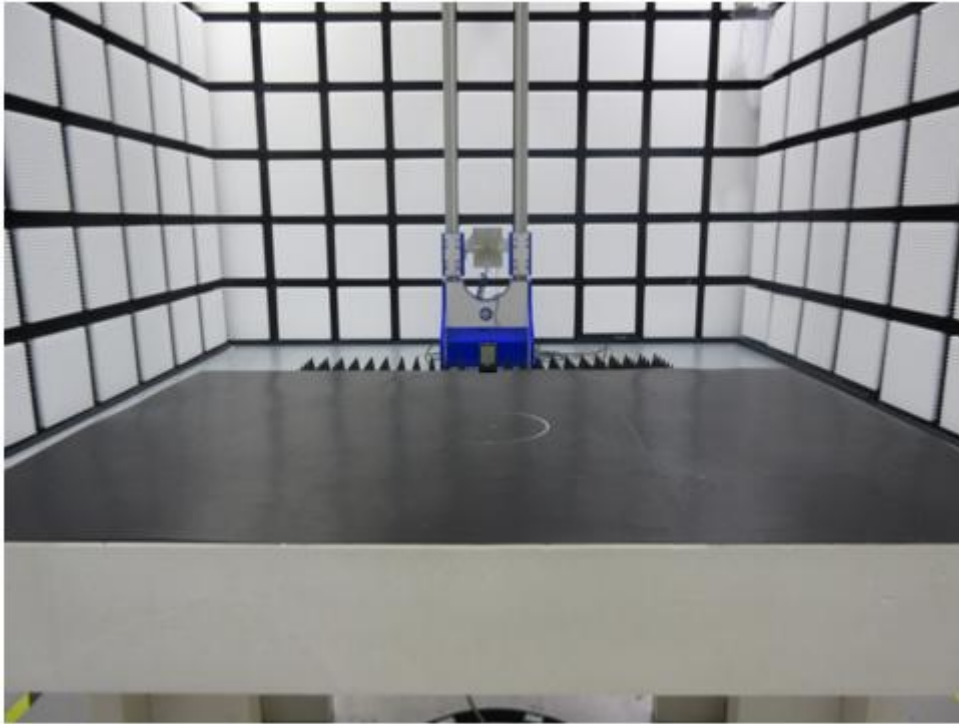
Appendix A



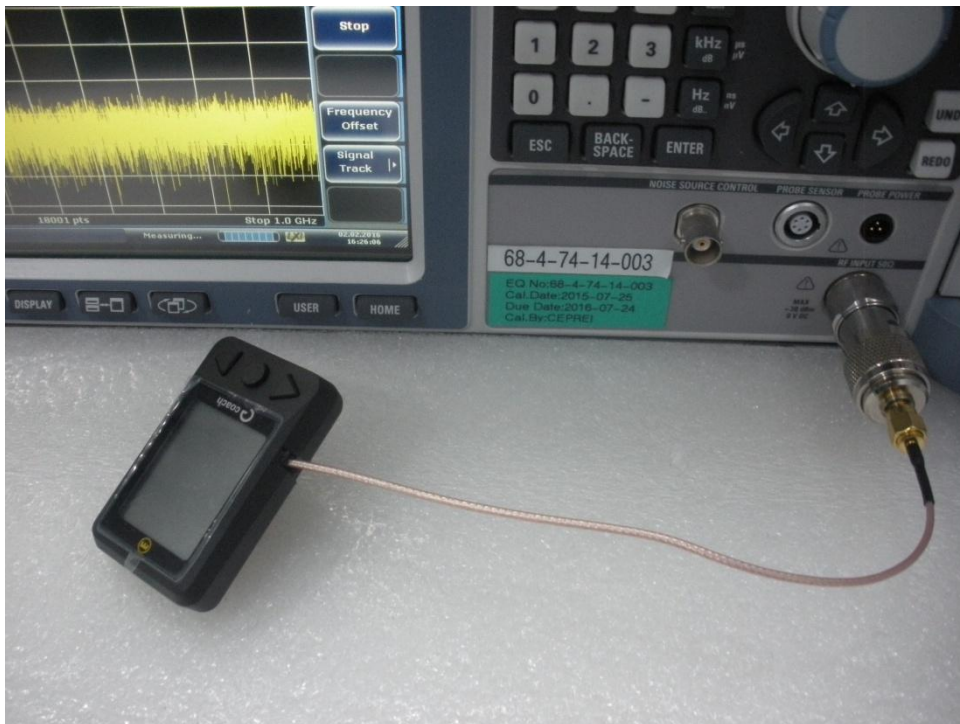
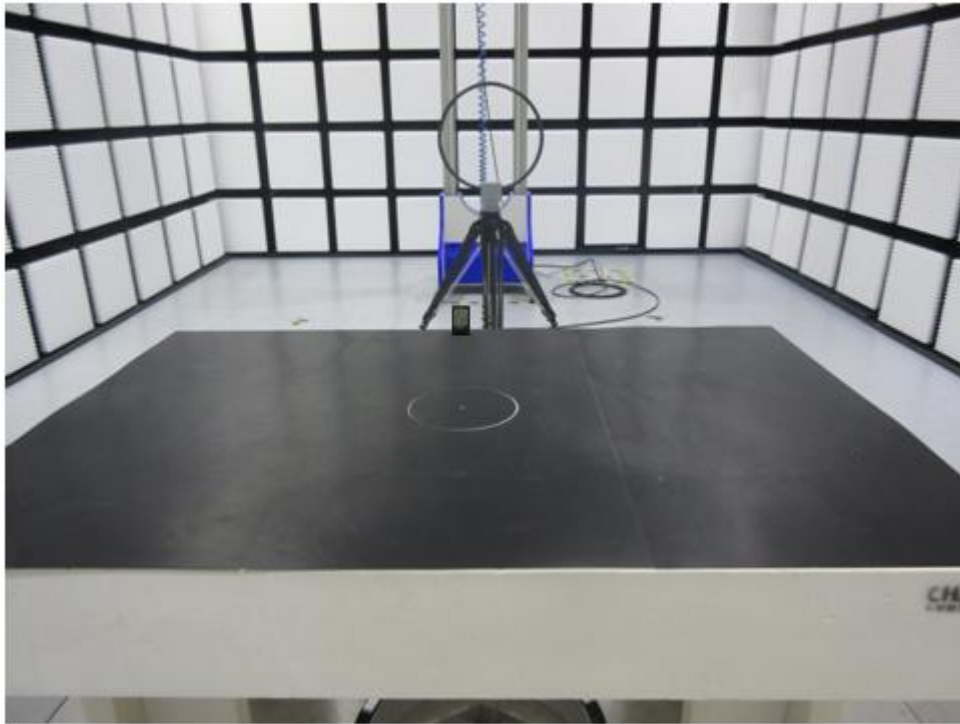
Appendix A



9 Appendix B - Setup Photographs of EUT



Appendix B



10 Appendix C - General Product Information

Radiofrequency radiation exposure evaluation

According to KDB 447498 D01v06 section 4.3.1,

>> The 1-g SAR test exclusion thresholds, for 100MHz to 6GHz, at test separation distances ≤ 50 mm are determined by:

Power at 2.402GHz = 0.0760 mW EIRP

Power at 2.440GHz = 0.0753 mW EIRP

Power at 2.480GHz = 0.0756 mW EIRP

$[(0.0760 \text{ mW}) / (20 \text{ mm})] \cdot [\text{sqrt}(2.402 \text{ GHz})] = 0.005889$ which is ≤ 3.0 for 1-g SAR.

$[(0.0753 \text{ mW}) / (20 \text{ mm})] \cdot [\text{sqrt}(2.440 \text{ GHz})] = 0.005881$ which is ≤ 3.0 for 1-g SAR.

$[(0.0756 \text{ mW}) / (20 \text{ mm})] \cdot [\text{sqrt}(2.480 \text{ GHz})] = 0.005952$ 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 2402MHz-2480MHz, the test separation distance is < 50 mm. (Manufacturer specified the separation distance is: 20mm)

>> The power of EUT measured is:

- For 2402MHz: $0.0760\text{mW} = 10 \log(0.0760) \text{ dBm} \sim -11.19\text{dBm}$
- For 2440MHz: $0.0753\text{mW} = 10 \log(0.0753) \text{ dBm} \sim -11.23\text{dBm}$
- For 2480MHz: $0.0756\text{mW} = 10 \log(0.0756) \text{ dBm} \sim -11.21\text{dBm}$