

## FCC Report (Bluetooth)

**Applicant:** Youngs Watch Co., Ltd.

**Address of Applicant:** Units 1-12, 10/F, Hope Sea Industrial Centre, No.26, Lam Hing St., Kowloon Bay, Kowloon, Hong Kong.

### Equipment Under Test (EUT)

**Product Name:** Bluetooth Smart Watch

**Model No.:** MD15366, MD16381

**FCC ID:** 2AE3L-MD15366

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.247:2015

**Date of sample receipt:** June 28, 2016

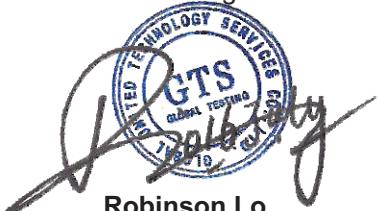
**Date of Test:** July 04, 2016

**Date of report issued:** July 05, 2016

**Test Result :** PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

A handwritten signature of Robinson Lo is written over a circular blue and white GTS laboratory seal. The seal contains the text 'GTS', 'GLOBAL TECHNOLOGY SERVICES CO., LTD.', 'TESTING', and 'QUALITY' around the perimeter, with 'JULY 05 2016' in the center.

Robinson Lo  
**Laboratory Manager**

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

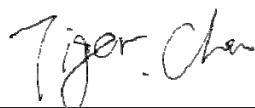
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## 2 Version

Version No.	Date	Description
00	July 05, 2016	Original

Prepared By:

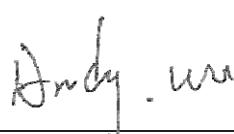


Project Engineer

Date:

July 05, 2016

Check By:



Reviewer

Date:

July 05, 2016

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## 4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	N/A
Conducted Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.10:2013.

### 4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

## 5 General Information

### 5.1 Client Information

Applicant:	Youngs Watch Co., Ltd.
Address of Applicant:	Units 1-12, 10/F, Hope Sea Industrial Centre, No.26, Lam Hing St., Kowloon Bay, Kowloon, Hong Kong.
Manufacturer/Factory:	Dalas Timepiece (ShenZhen) Co., Ltd.
Address of Manufacturer/Factory:	No.11, YunFeng Rd., QueShan Industrial District, Dalang St., ShenZhen , China

### 5.2 General Description of EUT

Product Name:	Bluetooth Smart Watch
Model No.:	MD15366, MD16381
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Channel Separation:	2MHz
Modulation Type:	GFSK
Antenna Type:	Integral antenna
Antenna Gain:	1.0dBi
Power Supply:	DC 3.0V Button Battery

<b>Operation Frequency each of channel</b>							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
...	...	...	...	...	...	...	...
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz

## 5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<i>Remark: During the test, the new battery was used.</i>	

## 5.4 Description of Support Units

None
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## 5.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC —Registration No.: 600491**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 22, 2016.

- **Industry Canada (IC) —Registration No.: 9079A-2**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

## 5.6 Test Location

All tests were performed at:
Global United Technology Services Co., Ltd. Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960

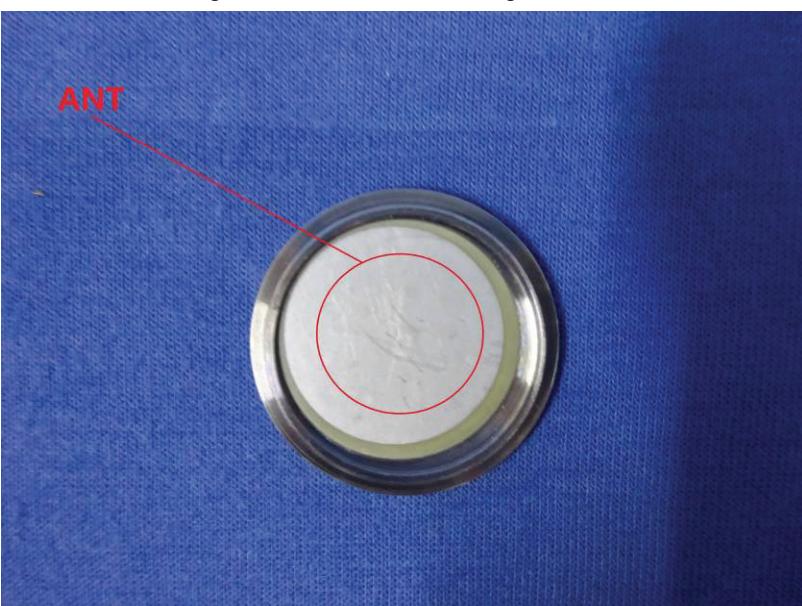
## 6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 27 2016	Mar. 26 2017
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	Spectrum Analyzer	Agilent	E4440A	GTS533	Jun 29 2016	Jun 28 2017
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jun 29 2016	Jun 28 2017
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Jun 29 2016	Jun 28 2017
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 25 2016	June 24 2017
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Jun 29 2016	Mar. 25 2017
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 27 2016	Mar. 26 2017
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 27 2016	Mar. 26 2017
11	Coaxial cable	GTS	N/A	GTS210	Mar. 27 2016	Mar. 26 2017
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 27 2016	Mar. 26 2017
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jun 29 2016	Jun 28 2017
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jun 29 2016	Jun 28 2017
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 25 2016	June 24 2017
16	Band filter	Amindeon	82346	GTS219	Mar. 27 2016	Mar. 26 2017

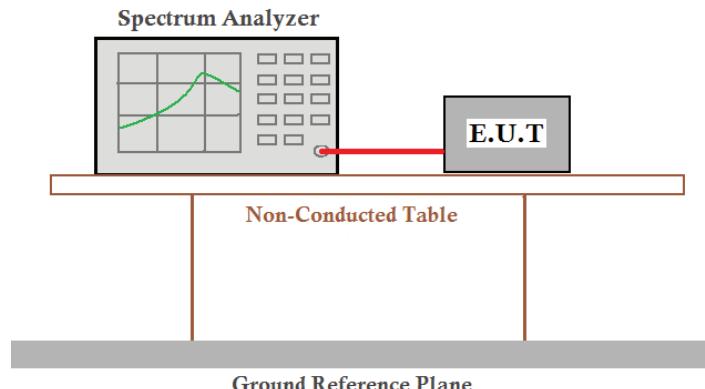
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	ChangChun	DYM3	GTS257	July 07 2015	July 06 2016

## 7 Test results and Measurement Data

### 7.1 Antenna requirement

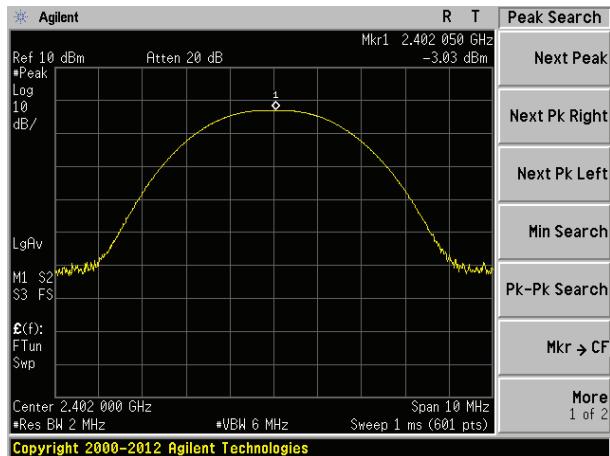
Standard requirement:	FCC Part15 C Section 15.203 /247(c)
<b>15.203 requirement:</b> An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
<b>15.247(c) (1)(i) requirement:</b> (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
<b>E.U.T Antenna:</b> <i>The antenna is Integral antenna, the best case gain of the antenna is 1dBi</i> 	

## 7.2 Conducted Output Power

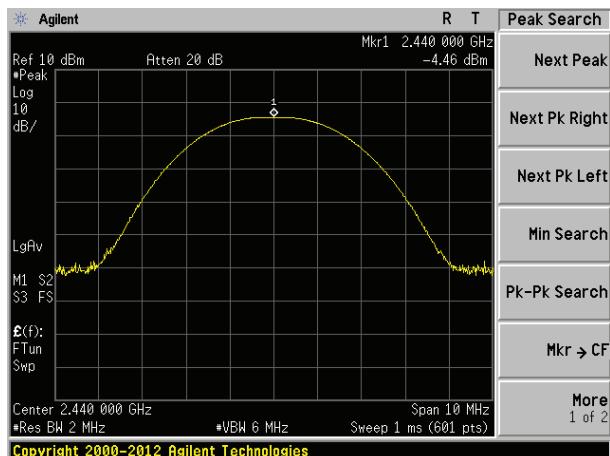
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
Limit:	30dBm
Test setup:	 <p>The diagram illustrates the test setup for conducted output power. A Spectrum Analyzer is connected to the E.U.T (Equipment Under Test) via a cable. The E.U.T is placed on a Non-Conducted Table. The entire setup is positioned above a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

### Measurement Data

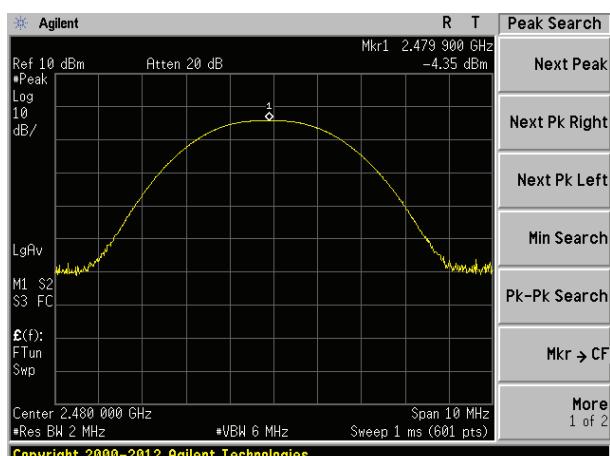
Test channel	Peak Output Power (dBm)	Limit(dBm)	Result
Lowest	-3.03	30.00	Pass
Middle	-4.46		
Highest	-4.35		

**Test plot as follows:**


Lowest channel

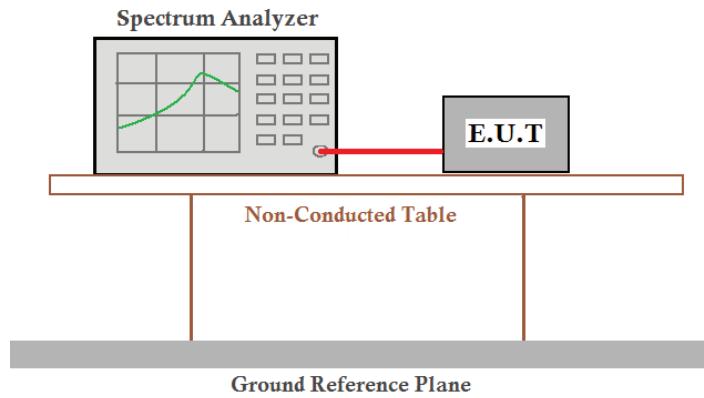


Middle channel



Highest channel

## 7.3 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
Limit:	>500KHz
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

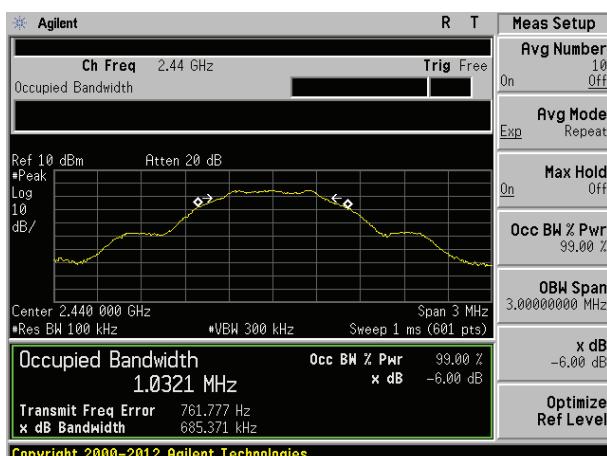
### Measurement Data

Test channel	Channel Bandwidth (KHz)	Limit(KHz)	Result
Lowest	699.992	>500	Pass
Middle	685.371		
Highest	685.485		

Test plot as follows:



Lowest channel

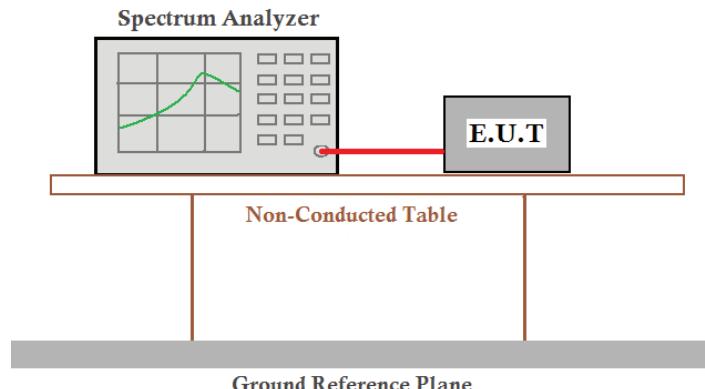


Middle channel



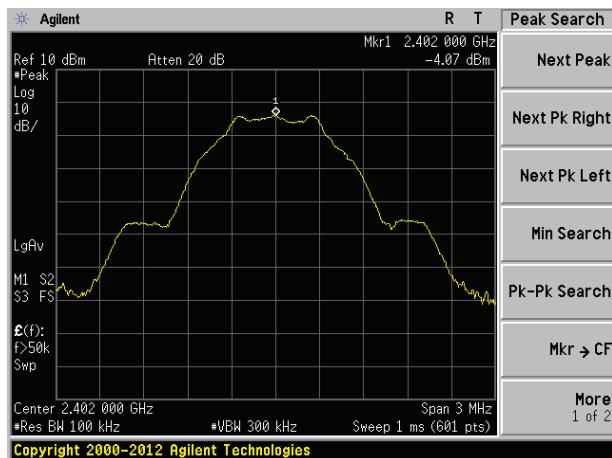
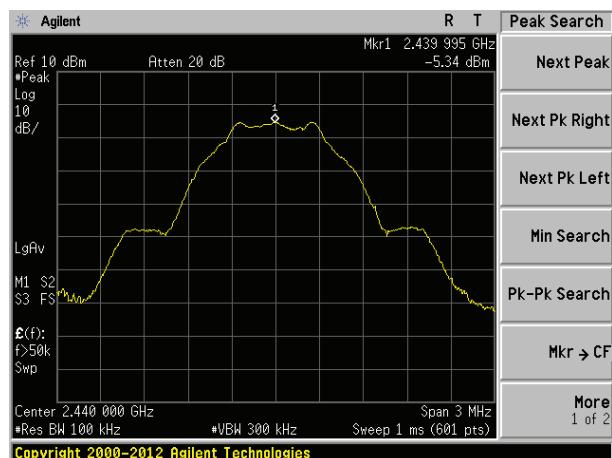
Highest channel

## 7.4 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
Limit:	8dBm/3kHz
Test setup:	 <p>The diagram illustrates the test setup for measuring Power Spectral Density. A Spectrum Analyzer is connected to the E.U.T (Equipment Under Test) via a cable. The E.U.T is placed on a Non-Conducted Table. The entire setup is positioned above a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

### Measurement Data

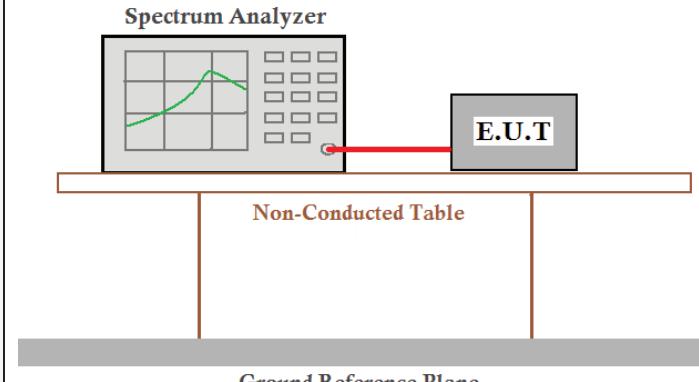
Test channel	Power Spectral Density (dBm)	Limit(dBm/3kHz)	Result
Lowest	-4.07	8.00	Pass
Middle	-5.34		
Highest	-4.56		

**Test plot as follows:**

**Lowest channel**

**Middle channel**

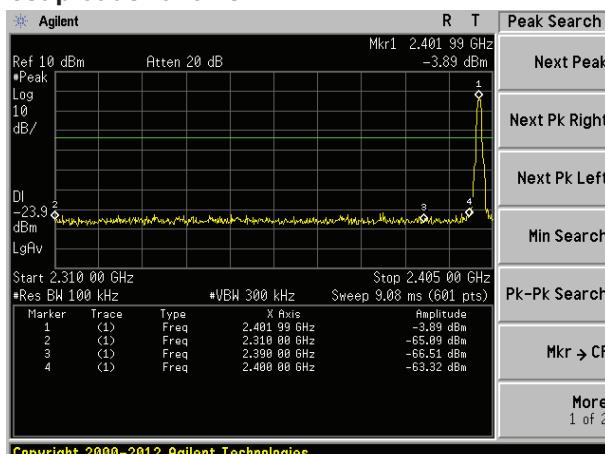
**Highest channel**

## 7.5 Band edges

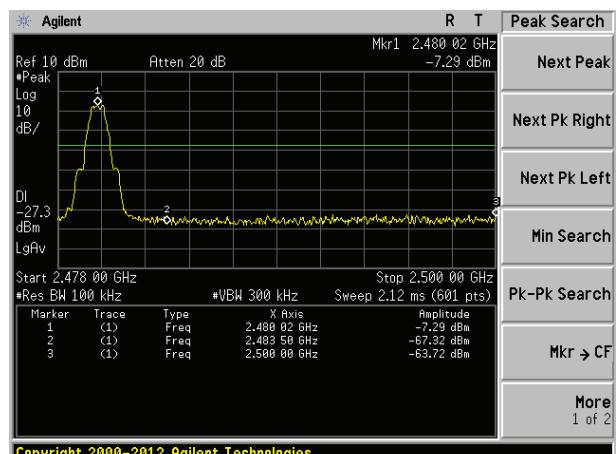
### 7.5.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	<p style="text-align: center;"><b>Spectrum Analyzer</b></p>  <p style="text-align: center;">Non-Conducted Table</p> <p style="text-align: center;">Ground Reference Plane</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

#### Test plot as follows:

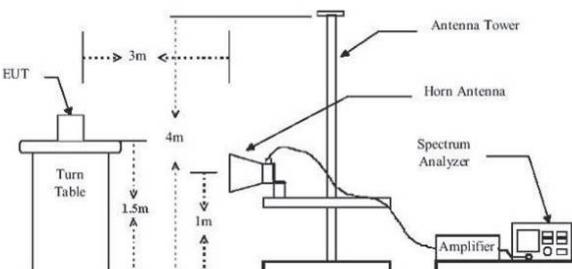


Lowest channel



Highest channel

## 7.5.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205								
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.								
Test site:	Measurement Distance: 3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Value				
	Above 1GHz	Peak	1MHz	3MHz	Peak				
		RMS	1MHz	3MHz	Average				
Limit:	Frequency	Limit (dBuV/m @3m)		Value					
	Above 1GHz	54.00		Average					
		74.00		Peak					
Test setup:									
Test Procedure:	<ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> <li>7. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.</li> </ol>								
Test Instruments:	Refer to section 6.0 for details								
Test mode:	Refer to section 5.3 for details								
Test results:	Pass								

**Measurement data:**

*Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.*

Test channel:	Lowest							
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	44.03	27.59	5.38	30.18	46.82	74.00	-27.18	Horizontal
2400.00	45.63	27.58	5.39	30.18	48.42	74.00	-25.58	Horizontal
2390.00	44.69	27.59	5.38	30.18	47.48	74.00	-26.52	Vertical
2400.00	46.15	27.58	5.39	30.18	48.94	74.00	-25.06	Vertical

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	34.32	27.59	5.38	30.18	37.11	54.00	-16.89	Horizontal
2400.00	35.63	27.58	5.39	30.18	38.42	54.00	-15.58	Horizontal
2390.00	34.35	27.59	5.38	30.18	37.14	54.00	-16.86	Vertical
2400.00	35.39	27.58	5.39	30.18	38.18	54.00	-15.82	Vertical

Test channel:	Highest							
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	46.27	27.53	5.47	29.93	49.34	74.00	-24.66	Horizontal
2500.00	45.23	27.55	5.49	29.93	48.34	74.00	-25.66	Horizontal
2483.50	47.31	27.53	5.47	29.93	50.38	74.00	-23.62	Vertical
2500.00	46.33	27.55	5.49	29.93	49.44	74.00	-24.56	Vertical

**Average value:**

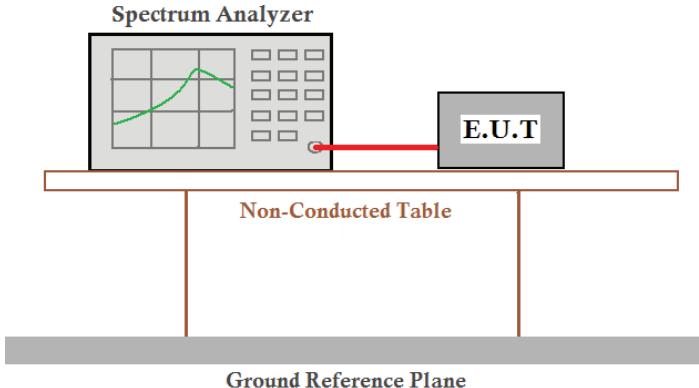
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.16	27.53	5.47	29.93	39.23	54.00	-14.77	Horizontal
2500.00	35.00	27.55	5.49	29.93	38.11	54.00	-15.89	Horizontal
2483.50	36.47	27.53	5.47	29.93	39.54	54.00	-14.46	Vertical
2500.00	36.02	27.55	5.49	29.93	39.13	54.00	-14.87	Vertical

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

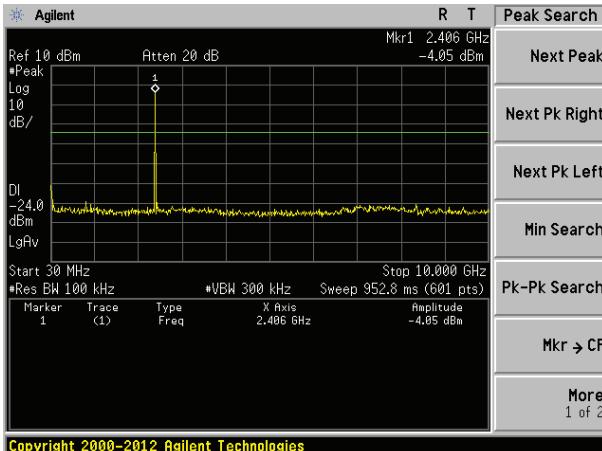
## 7.6 Spurious Emission

### 7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

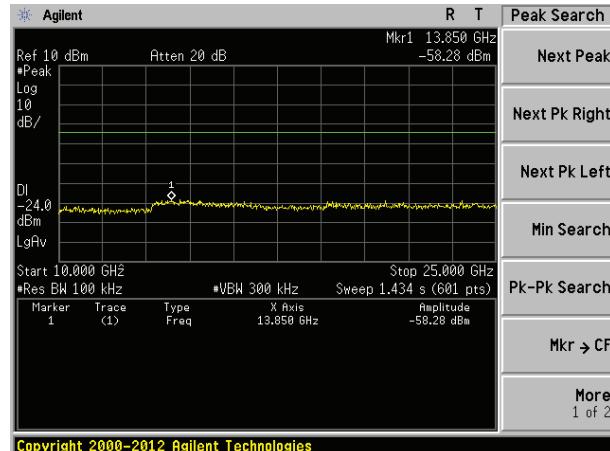
## Test plot as follows:

### Lowest channel



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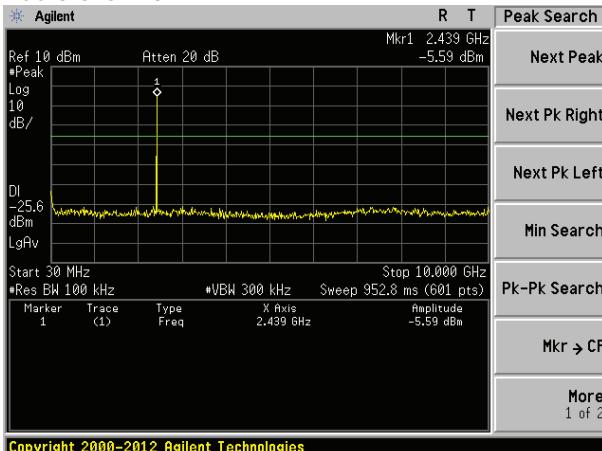
30MHz~10GHz



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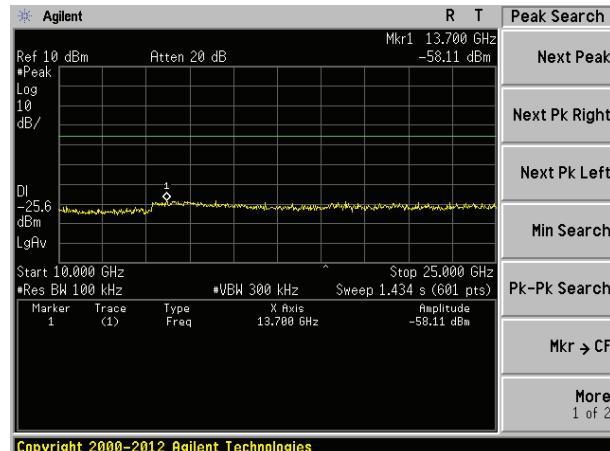
10GHz~25GHz

### Middle channel



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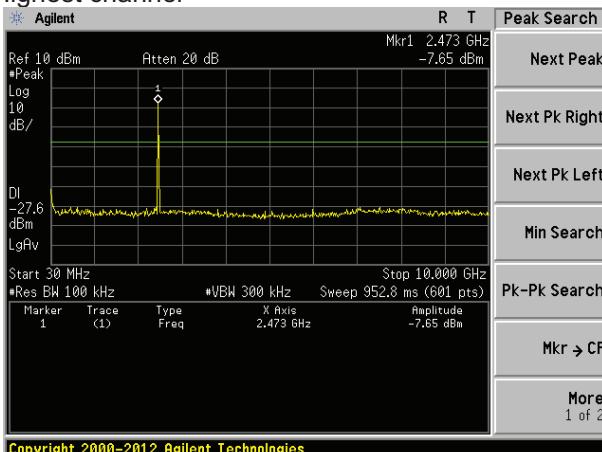
30MHz~10GHz



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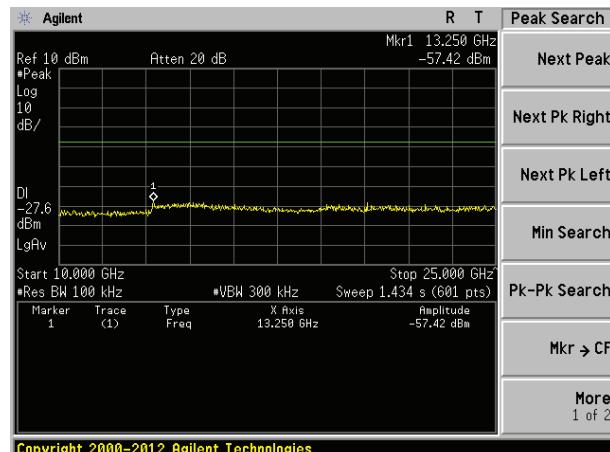
10GHz~25GHz

### Highest channel



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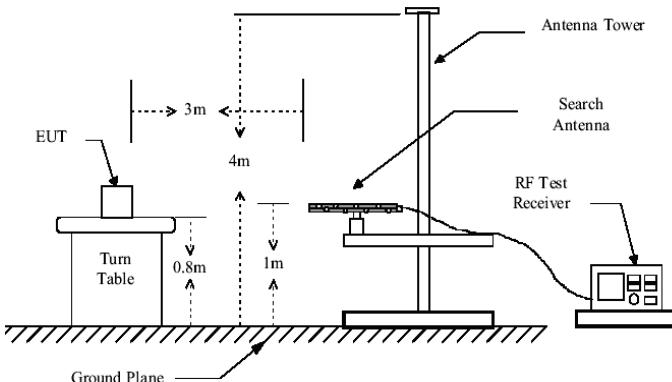
30MHz~10GHz

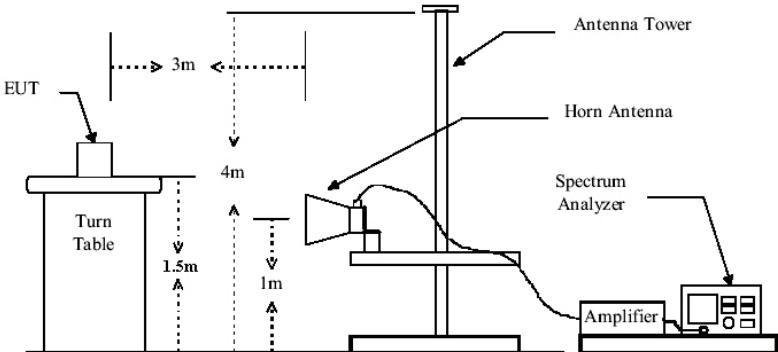


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10GHz~25GHz

## 7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	30MHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		RMS	1MHz	3MHz	Average
Limit:	Frequency	Limit (dBuV/m @3m)		Value	
	30MHz-88MHz	40.00		Quasi-peak	
	88MHz-216MHz	43.50		Quasi-peak	
	216MHz-960MHz	46.00		Quasi-peak	
	960MHz-1GHz	54.00		Quasi-peak	
	Above 1GHz	54.00		Average	
		74.00		Peak	
Test setup:	Below 1GHz  Above 1GHz				



Test Procedure:	<ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> <li>The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.</li> </ol>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

#### Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

**Measurement Data****■ Below 1GHz**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
37.55	25.22	14.96	0.64	30.06	10.76	40.00	-29.24	Vertical
64.43	25.75	12.84	0.90	29.89	9.60	40.00	-30.40	Vertical
112.92	26.91	13.73	1.30	29.61	12.33	43.50	-31.17	Vertical
284.98	28.50	14.75	2.29	29.90	15.64	46.00	-30.36	Vertical
434.07	25.93	17.53	3.02	29.43	17.05	46.00	-28.95	Vertical
625.08	23.83	20.54	3.82	29.27	18.92	46.00	-27.08	Vertical
39.44	26.60	15.44	0.65	30.05	12.64	40.00	-27.36	Horizontal
77.59	31.54	10.20	1.01	29.81	12.94	40.00	-27.06	Horizontal
127.22	29.03	11.32	1.41	29.53	12.23	43.50	-31.27	Horizontal
273.23	30.99	14.46	2.24	29.82	17.87	46.00	-28.13	Horizontal
419.11	27.26	17.43	2.94	29.46	18.17	46.00	-27.83	Horizontal
711.67	24.12	20.95	4.13	29.20	20.00	46.00	-26.00	Horizontal

## ■ Above 1GHz

Test channel:	Lowest							
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### Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	34.85	31.78	8.60	32.09	43.14	74.00	-30.86	Vertical
7206.00	30.20	36.15	11.65	32.00	46.00	74.00	-28.00	Vertical
9608.00	30.02	37.95	14.14	31.62	50.49	74.00	-23.51	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	38.64	31.78	8.60	32.09	46.93	74.00	-27.07	Horizontal
7206.00	31.74	36.15	11.65	32.00	47.54	74.00	-26.46	Horizontal
9608.00	29.21	37.95	14.14	31.62	49.68	74.00	-24.32	Horizontal
12010.00	*					74.00		Horizontal
14412.00	*					74.00		Horizontal

### Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	24.13	31.78	8.60	32.09	32.42	54.00	-21.58	Vertical
7206.00	19.17	36.15	11.65	32.00	34.97	54.00	-19.03	Vertical
9608.00	18.40	37.95	14.14	31.62	38.87	54.00	-15.13	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	28.09	31.78	8.60	32.09	36.38	54.00	-17.62	Horizontal
7206.00	21.18	36.15	11.65	32.00	36.98	54.00	-17.02	Horizontal
9608.00	17.92	37.95	14.14	31.62	38.39	54.00	-15.61	Horizontal
12010.00	*					54.00		Horizontal
14412.00	*					54.00		Horizontal

### Remark:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. \*\*, means this data is the too weak instrument of signal is unable to test.

Test channel:	Middle
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	35.11	31.85	8.67	32.12	43.51	74.00	-30.49	Vertical
7323.00	30.38	36.37	11.72	31.89	46.58	74.00	-27.42	Vertical
9764.00	30.17	38.35	14.25	31.62	51.15	74.00	-22.85	Vertical
12205.00	*					74.00		Vertical
14646.00	*					74.00		Vertical
4882.00	38.95	31.85	8.67	32.12	47.35	74.00	-26.65	Horizontal
7323.00	31.94	36.37	11.72	31.89	48.14	74.00	-25.86	Horizontal
9764.00	29.39	38.35	14.25	31.62	50.37	74.00	-23.63	Horizontal
12205.00	*					74.00		Horizontal
14646.00	*					74.00		Horizontal

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	24.34	31.85	8.67	32.12	32.74	54.00	-21.26	Vertical
7323.00	19.31	36.37	11.72	31.89	35.51	54.00	-18.49	Vertical
9764.00	18.53	38.35	14.25	31.62	39.51	54.00	-14.49	Vertical
12205.00	*					54.00		Vertical
14646.00	*					54.00		Vertical
4882.00	28.33	31.85	8.67	32.12	36.73	54.00	-17.27	Horizontal
7323.00	21.34	36.37	11.72	31.89	37.54	54.00	-16.46	Horizontal
9764.00	18.07	38.35	14.25	31.62	39.05	54.00	-14.95	Horizontal
12205.00	*					54.00		Horizontal
14646.00	*					54.00		Horizontal

**Remark:**

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. \*\*, means this data is the too weak instrument of signal is unable to test.

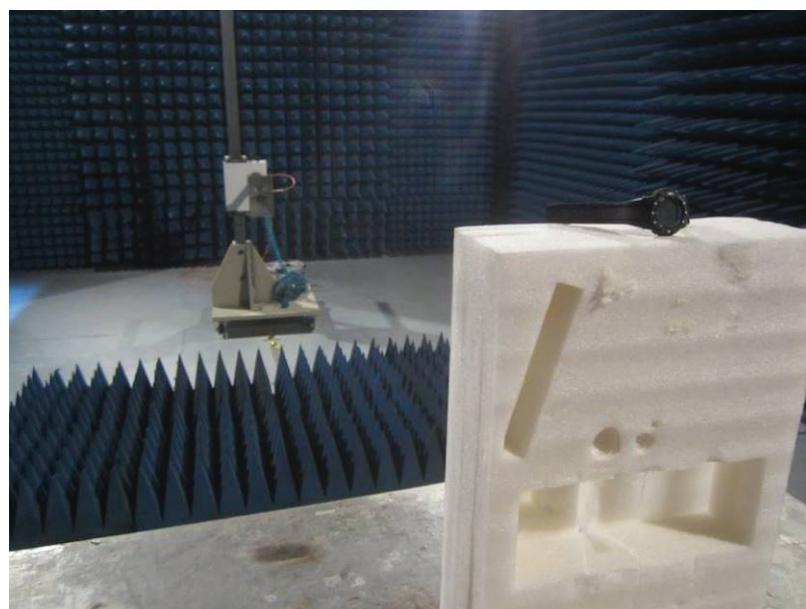
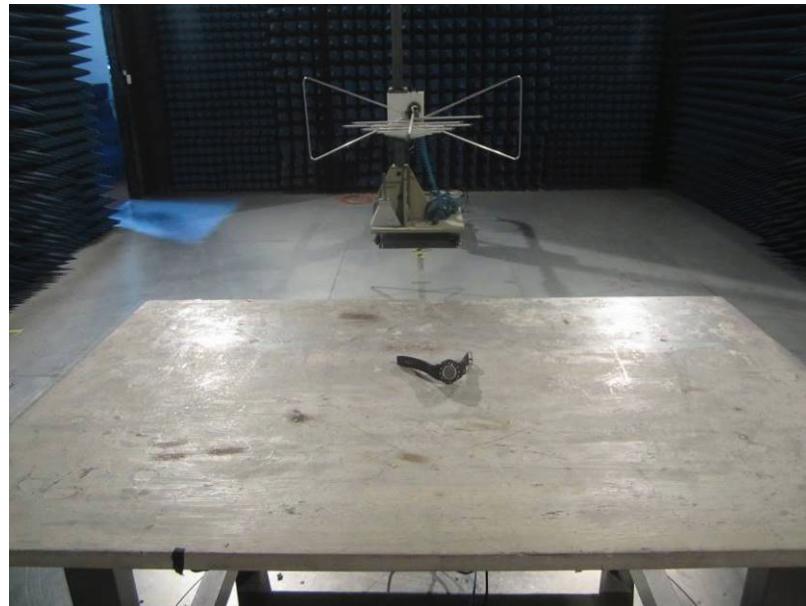
Test channel:				Highest				
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	35.64	31.93	8.73	32.16	44.14	74.00	-29.86	Vertical
7440.00	30.72	36.59	11.79	31.78	47.32	74.00	-26.68	Vertical
9920.00	30.48	38.81	14.38	31.88	51.79	74.00	-22.21	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	39.58	31.93	8.73	32.16	48.08	74.00	-25.92	Horizontal
7440.00	32.33	36.59	11.79	31.78	48.93	74.00	-25.07	Horizontal
9920.00	29.75	38.81	14.38	31.88	51.06	74.00	-22.94	Horizontal
12400.00	*					74.00		Horizontal
14880.00	*					74.00		Horizontal

**Remark:**

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. "", means this data is the too weak instrument of signal is unable to test.
3. PK value is lower than AV limit , so AV value deem to comply with AV limit without test

## 8 Test Setup Photo

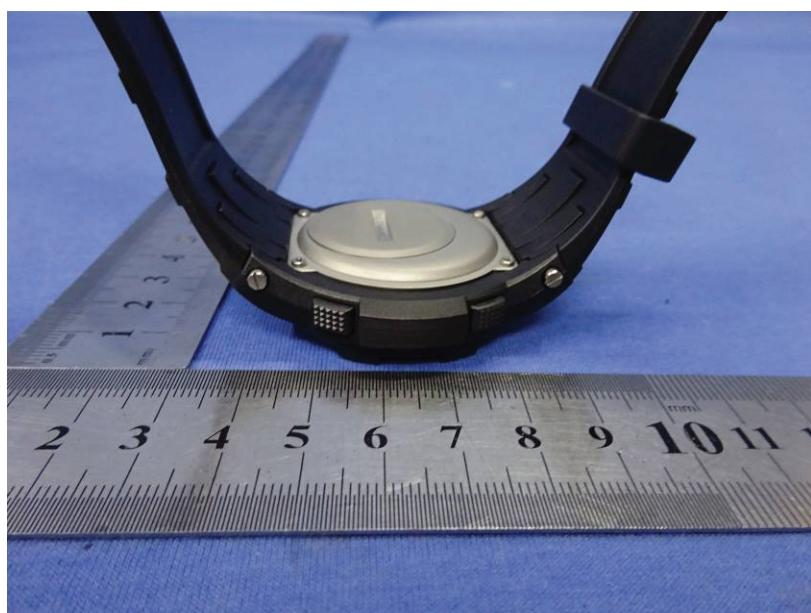
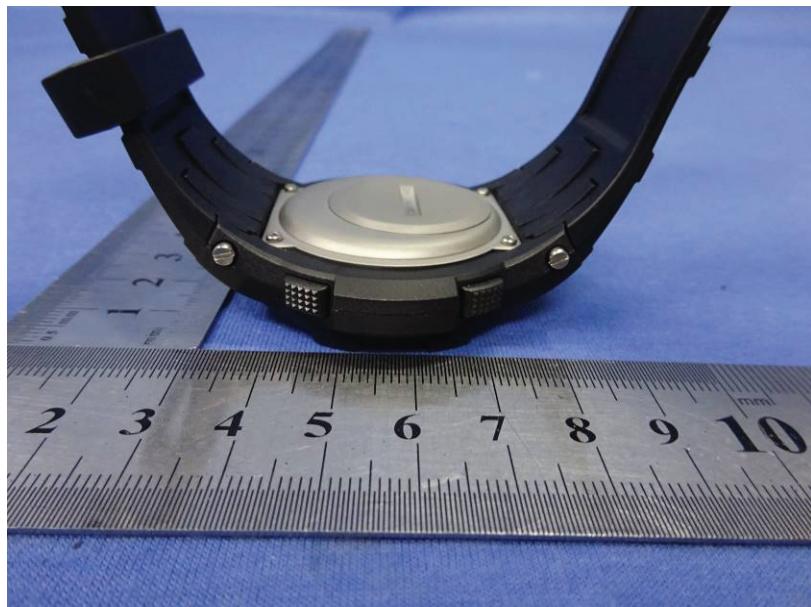
Radiated Emission



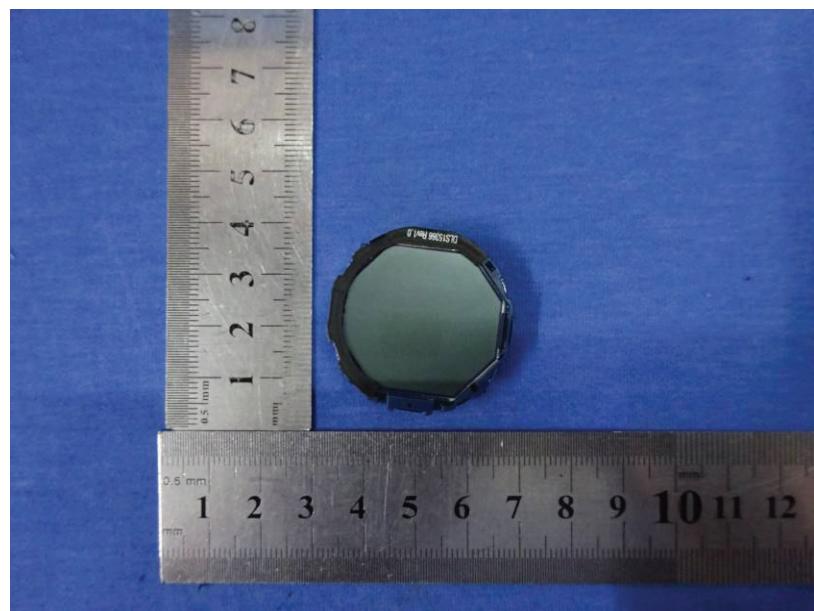
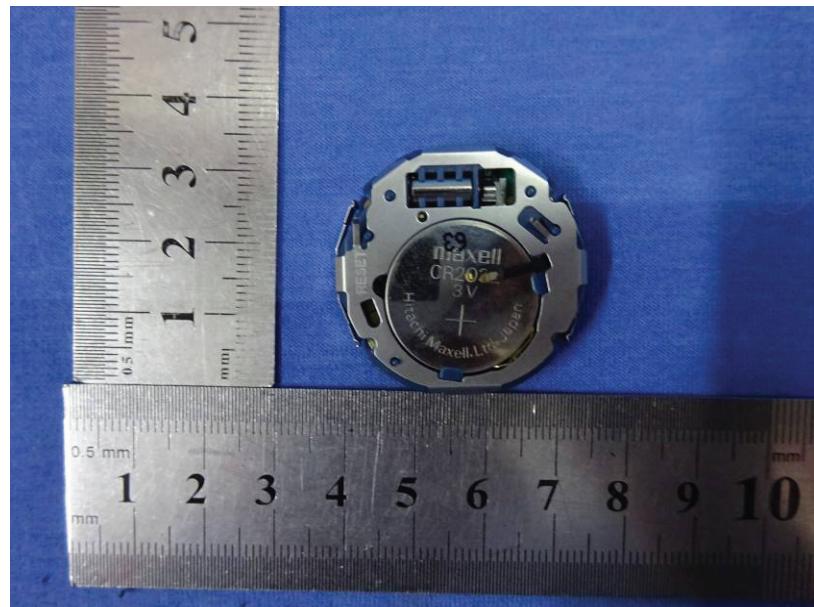
## 9 EUT Constructional Details

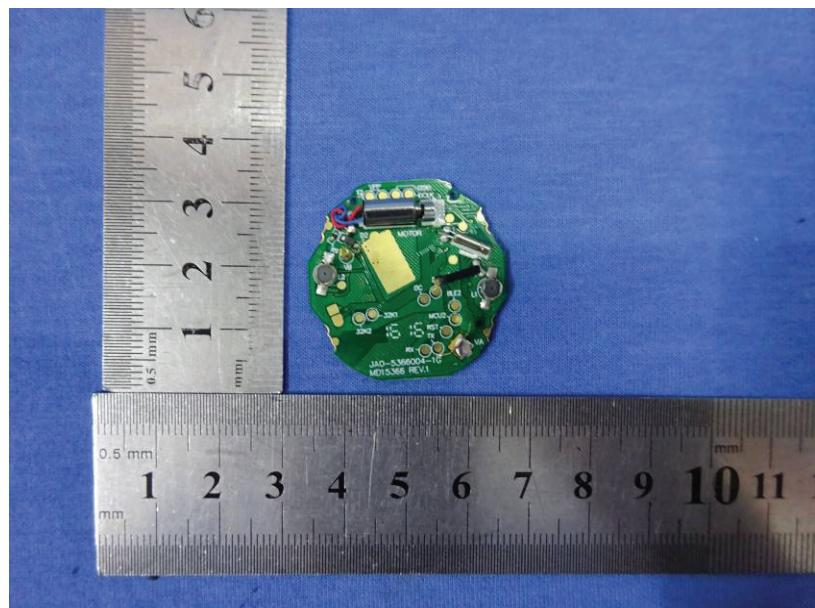
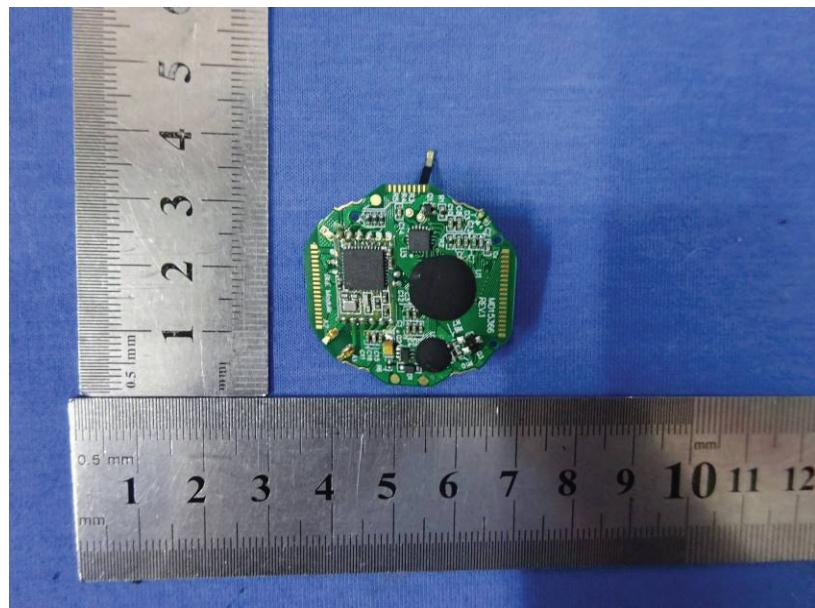












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