

# FCC Test Report

## FCC ID: QISLEO-BX9

**Project No.** : 1612C286C  
**Equipment** : Smart Watch  
**Model Name** : LEO-BX9  
**Applicant** : Huawei Technologies Co.,Ltd.  
**Address** : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District Shenzhen China

**Date of Receipt** : May 03, 2017  
**Date of Test** : May 03, 2017 ~ May 05, 2017  
**Issued Date** : May 08, 2017  
**Tested by** : BTL Inc.

**Testing Engineer** : Kevin Li  
(Kevin Li)

**Technical Manager** : Bill Zhang  
(Bill Zhang)

**Authorized Signatory** : Steven Lu  
(Steven Lu)

# **B T L I N C .**

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### **Limitation**

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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### REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCE-1-1612C286	Original report.	Jan. 11, 2017
BTL-FCCE-1-1612C286A	Compared with the previous report (BTL-FCCE-1-1612C286), add a battery manufacturers (Coslight), so the radiated test items have been re-evaluated and recorded in the test report. In this test report only records the test results of the new battery, the original test results please refer to original report. This test report only in valid when be combined with previous test report(s).	Apr. 11, 2017
BTL-FCCE-1-1612C286C	Compared with the previous report (BTL-FCCE-1-1612C286& BTL-FCCE-1-1612C286A), add adapter (HW-050450U00) and all test items has been re-evaluated and recorded in the test report.	May 08, 2017

## 1. CERIFICATION

Equipment : Smart Watch  
Brand Name : HUAWEI  
Model Name : LEO-BX9  
Applicant : Huawei Technologies Co.,Ltd.  
Manufacturer : Huawei Technologies Co.,Ltd.  
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd.,  
Bantian, Longgang District Shenzhen China  
Factory : Flextronics Industrial (ZhuHai) Co., Ltd.  
Address : Xin Qing Science &Technology Industrial Park, Doumen, Zhuhai, GuangDong  
Date of Test : May 03, 2017 ~ May 05, 2017  
Test Sample : Engineering Sample  
Standard(s) : FCC Part 15, Subpart B  
ANSI C63.4-2014

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCE-1-1612C286C) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

EMC Emission				
Standard(s)	Test Item	Limit	Judgment	Remark
FCC Part15, Subpart B ANSI C63.4-2014	Conducted Emission	Class B	PASS	
	Radiated emission Below 1 GHz	Class B	PASS	
	Radiated emission Above 1 GHz	Class B	PASS	NOTE(2)

**NOTE:**

- (1) " N/A" denotes test is not applicable to this device.
- (2) The EUT's max operating frequency exceeds 108 MHz, so the test will be performed.

## 2.1 TEST FACILITY

The test facilities used to collect the test data in this report at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

## 2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2  $U_{CISPR}$  requirement.

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately **95%**.

### A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150 kHz ~ 30MHz	2.32

### B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03 (3m)	CISPR	9KHz ~ 30MHz	V	3.79
		9KHz ~ 30MHz	H	3.57
		30MHz ~ 200MHz	V	3.82
		30MHz ~ 200MHz	H	3.78
		200MHz ~ 1,000MHz	V	4.10
		200MHz ~ 1,000MHz	H	4.06

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03 (3m)	CISPR	1GHz ~ 18GHz	V	3.12
		1GHz ~ 18GHz	H	3.68
		1GHz ~ 18GHz	V	3.12
		1GHz ~ 18GHz	H	3.68

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Watch		
Brand Name	HUAWEI		
Model Name	LEO-BX9		
Model Difference	N/A		
Frequency	Mode	Work Frequency(MHz)	
		Transmit Frequency	Receive Frequency
	Bluetooth	2400-2483.5	2400-2483.5
	Wi-Fi 2.4G	2400-2483.5	2400-2483.5
Power Source	#1 DC Voltage supplied from AC/DC adapter. #2 Battery Supplied.		
Power Rating	#1 Input: 100–240V Output:5V  1.0A #2 DC 3.82V		
HW Version	EA1LEOUM		
SW Version	sawshark-userdebug7.1.1NFF47		

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The EUT contains following accessory devices

Item	Mfr/Brand	Model.
Adapter	DONGGUAN PHITEK ELECTRONICS CO.,LTD.	HW-050100U01
	SHENZHEN HUNTKEY ELECTRONIC CO.,LTD.	
	HUIZHOU BYD ELECTRONIC CO., LTD.	
	SALCOMP (SHENZHEN) Co., Ltd.	HW-050450U00
Battery	Huizhou Desay Battery Co.,Ltd.	N/A
	Harbin Coslight Power Co., Ltd.	N/A



### 3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	BT+WIFI

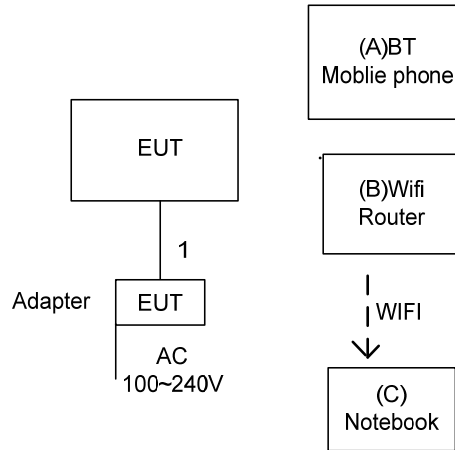
For Conducted Test	
Final Test Mode	Description
Mode 1	BT+WIFI

For Radiated Test	
Final Test Mode	Description
Mode 1	BT+WIFI

### 3.3 EUT OPERATING CONDITIONS

The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use.

### 3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



Ground plane

Remote System

### 3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
A	Mobile phone	HUAWEI	N/A	N/A	N/A
B	Router	TP-LINK	TL-WR1041N	N/A	N/A
C	Notebook	Lenovo	E46L	DOC	EB22953770

Item	Shielded Type	Ferrite Core	Length	Note
1	YES	NO	1m	USB Cable

## 4. EMC EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 POWER LINE CONDUCTED EMISSION (FREQUENCY RANGE 150KHZ-30MHZ)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:  
 Measurement Value = Reading Level + Correct Factor  
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)  
 Margin Level = Measurement Value - Limit Value

#### 4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Measurement Software	Farad	EZ-EMC Ver.NB-03A 1-01	N/A	N/A
2	LISN	EMCO	3816/2	00052765	Mar. 26, 2018
3	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 26, 2018
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 26, 2018
5	Cable	emci	RG223(9K Hz-30MHz) (5m)	N/A	Mar. 07, 2018
6	EMI Test Receiver	R&S	ESCI	100382	Mar. 26, 2018

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

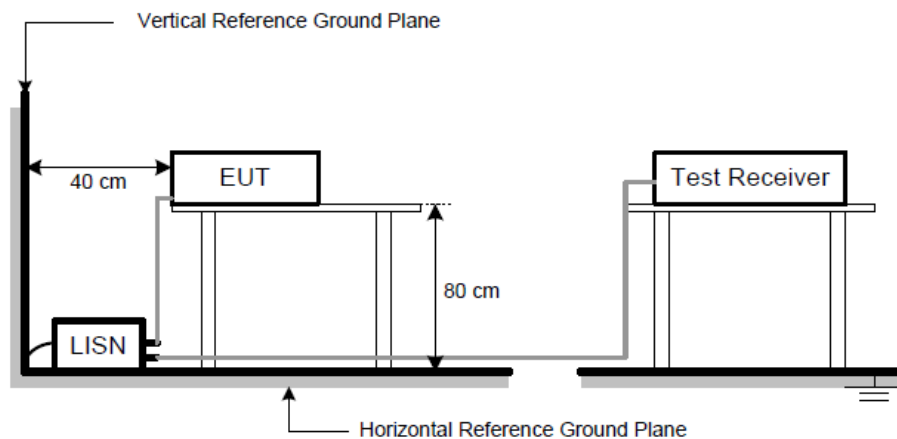
### 4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- f. First the whole spectrum of emission caused by equipment under test(EUT) is recorded with Detector set to peak. Peak value recorded in table if the margin from QP Limit is larger than 2dB, otherwise, QP value is recorded, Measuring frequency range from 150KHz to 30MHz.

### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

### 4.1.5 TEST SETUP

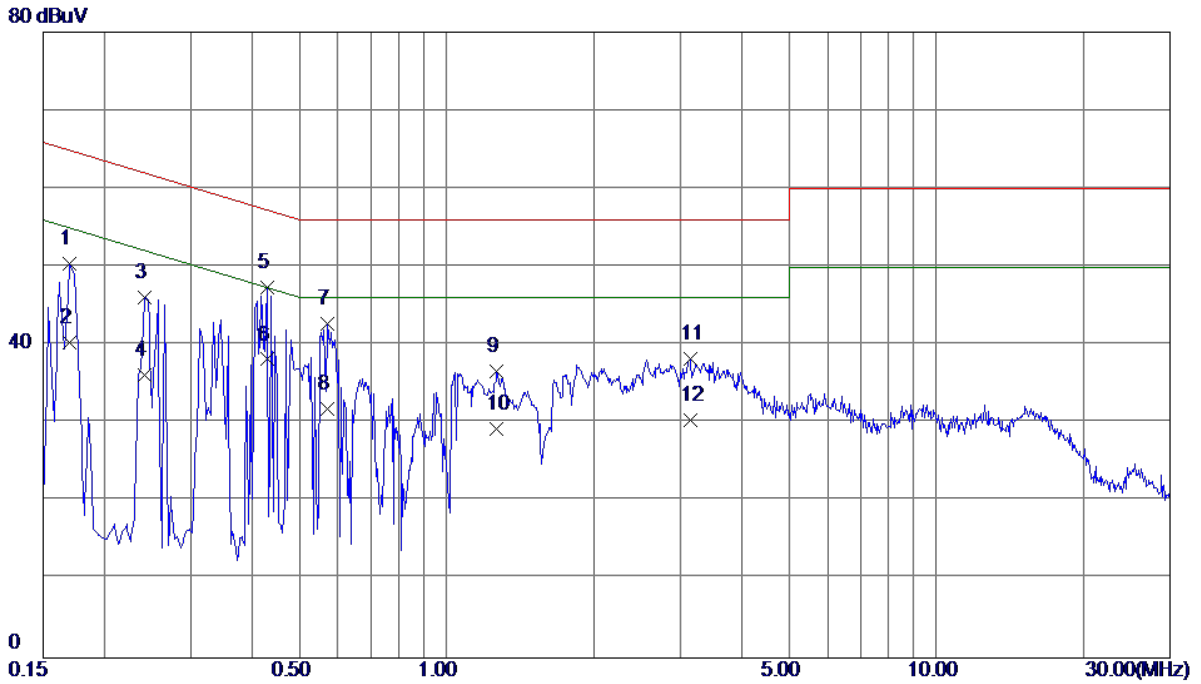


### 4.1.6 TEST RESULTS

Remark

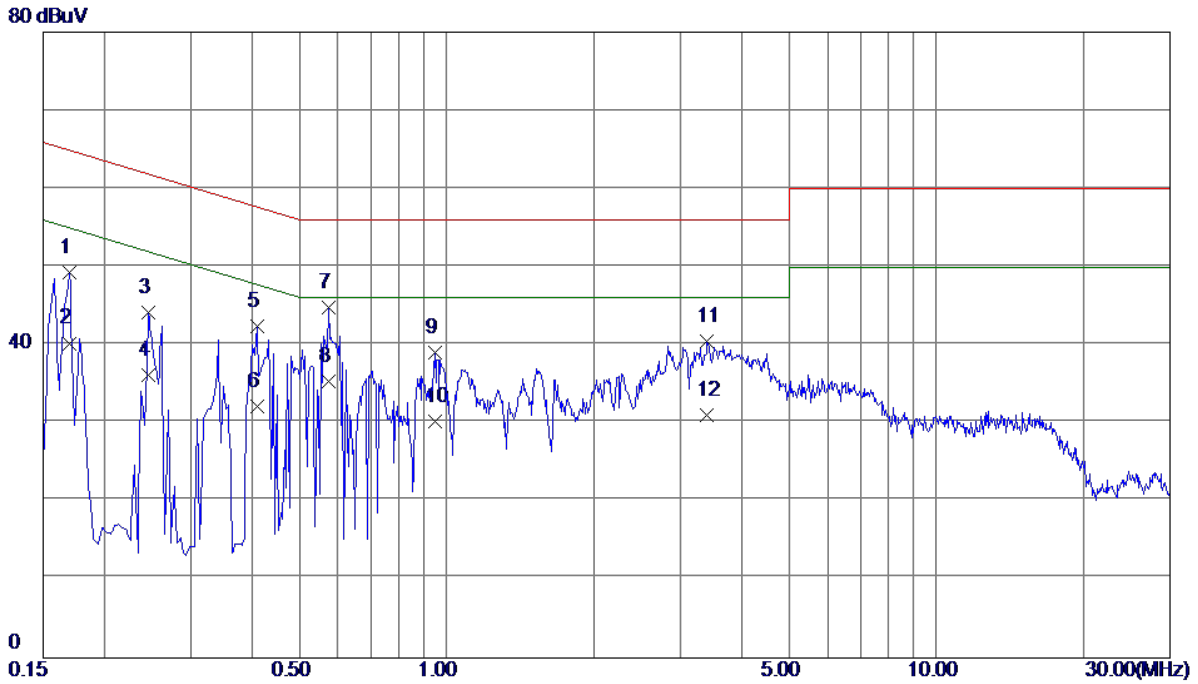
- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz. Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10KHz,VBW=10KHz, Swp. Time =0.3 sec./MHz.
- (2) All readings are QP Mode value unless otherwise stated AVG in column of 『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a “ \* ” marked in AVG Mode column of Interference Voltage Measured.

EUT	Smart Watch	Model Name	LEO-BX9
Temperature	25°C	Relative Humidity	53%
Test Voltage	AC 120V/60Hz	Phase	Line
Test Mode	BT+WIFI		
Note	Battery: Desay		
Test Engineer	Kevin Li		



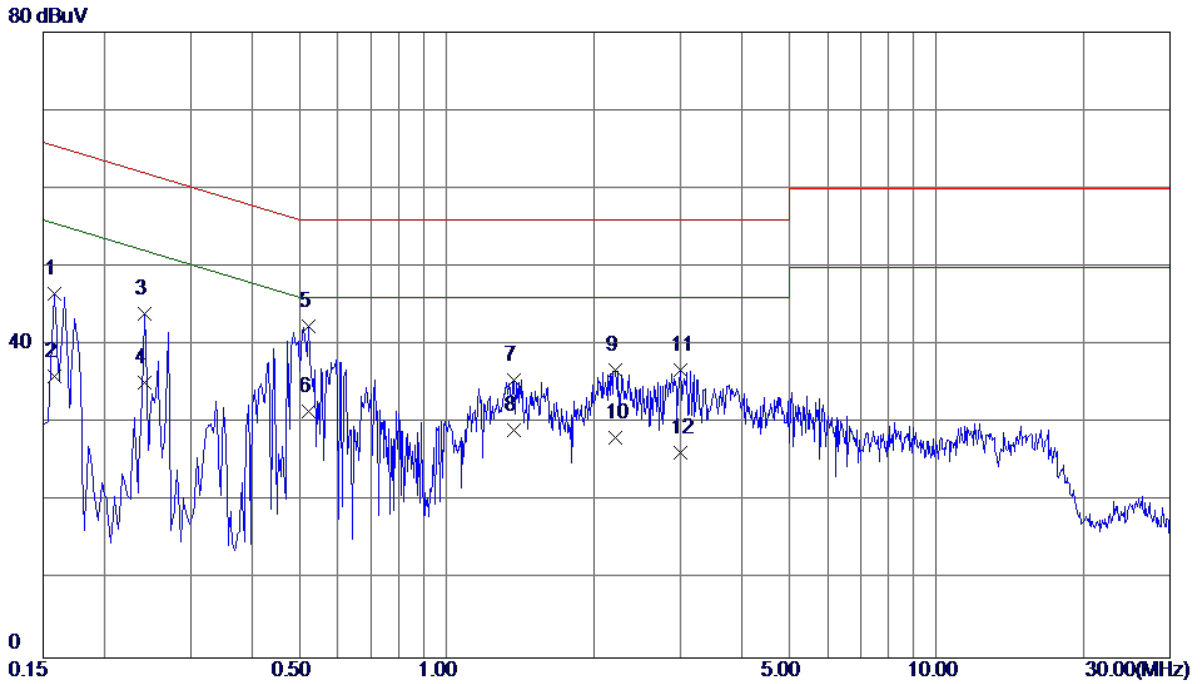
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector
1	0.1700	40.62	9.74	50.36	64.96	-14.60	QP
2	0.1700	30.60	9.74	40.34	54.96	-14.62	AVG
3	0.2420	36.35	9.73	46.08	62.03	-15.95	QP
4	0.2420	26.50	9.73	36.23	52.03	-15.80	AVG
5	0.4300	37.67	9.76	47.43	57.25	-9.82	QP
6 *	0.4300	28.40	9.76	38.16	47.25	-9.09	AVG
7	0.5700	33.00	9.76	42.76	56.00	-13.24	QP
8	0.5700	22.10	9.76	31.86	46.00	-14.14	AVG
9	1.2660	26.80	9.80	36.60	56.00	-19.40	QP
10	1.2660	19.50	9.80	29.30	46.00	-16.70	AVG
11	3.1380	28.35	9.86	38.21	56.00	-17.79	QP
12	3.1380	20.60	9.86	30.46	46.00	-15.54	AVG

EUT	Smart Watch	Model Name	LEO-BX9
Temperature	25°C	Relative Humidity	53%
Test Voltage	AC 120V/60Hz	Phase	Neutral
Test Mode	BT+WIFI		
Note	Battery: Desay		
Test Engineer	Kevin Li		



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector
1	0.1700	39.59	9.64	49.23	64.96	-15.73	QP
2	0.1700	30.60	9.64	40.24	54.96	-14.72	AVG
3	0.2460	34.58	9.64	44.22	61.89	-17.67	QP
4	0.2460	26.50	9.64	36.14	51.89	-15.75	AVG
5	0.4100	32.79	9.65	42.44	57.65	-15.21	QP
6	0.4100	22.49	9.65	32.14	47.65	-15.51	AVG
7	0.5740	35.19	9.66	44.85	56.00	-11.15	QP
8 *	0.5740	25.70	9.66	35.36	46.00	-10.64	AVG
9	0.9460	29.33	9.68	39.01	56.00	-16.99	QP
10	0.9460	20.60	9.68	30.28	46.00	-15.72	AVG
11	3.4020	30.67	9.77	40.44	56.00	-15.56	QP
12	3.4020	21.30	9.77	31.07	46.00	-14.93	AVG

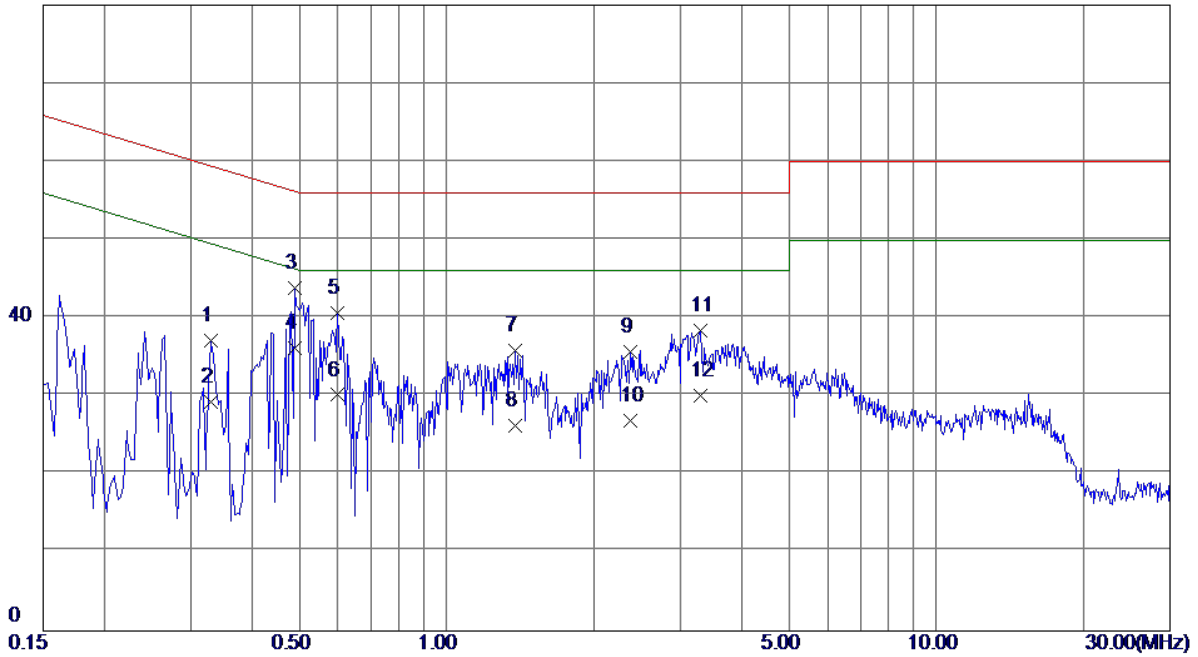
EUT	Smart Watch	Model Name	LEO-BX9
Temperature	25°C	Relative Humidity	53%
Test Voltage	AC 120V/60Hz	Phase	Line
Test Mode	BT+WIFI		
Note	Battery:Coslight		
Test Engineer	Kevin Li		



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector
1	0.1580	36.85	9.75	46.60	65.57	-18.97	QP
2	0.1580	26.30	9.75	36.05	55.57	-19.52	AVG
3	0.2420	34.34	9.73	44.07	62.03	-17.96	QP
4	0.2420	25.40	9.73	35.13	52.03	-16.90	AVG
5 *	0.5220	32.63	9.76	42.39	56.00	-13.61	QP
6	0.5220	21.80	9.76	31.56	46.00	-14.44	AVG
7	1.3700	25.78	9.80	35.58	56.00	-20.42	QP
8	1.3700	19.31	9.80	29.11	46.00	-16.89	AVG
9	2.2060	26.96	9.81	36.77	56.00	-19.23	QP
10	2.2060	18.31	9.81	28.12	46.00	-17.88	AVG
11	3.0059	26.90	9.86	36.76	56.00	-19.24	QP
12	3.0059	16.40	9.86	26.26	46.00	-19.74	AVG

EUT	Smart Watch	Model Name	LEO-BX9
Temperature	25°C	Relative Humidity	53%
Test Voltage	AC 120V/60Hz	Phase	Neutral
Test Mode	BT+WIFI		
Note	Battery:Coslight		
Test Engineer	Kevin Li		

80 dBuV



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector
1	0.3300	27.40	9.65	37.05	59.45	-22.40	QP
2	0.3300	19.60	9.65	29.25	49.45	-20.20	AVG
3	0.4900	34.17	9.66	43.83	56.17	-12.34	QP
4 *	0.4900	26.50	9.66	36.16	46.17	-10.01	AVG
5	0.5980	30.99	9.66	40.65	56.00	-15.35	QP
6	0.5980	20.50	9.66	30.16	46.00	-15.84	AVG
7	1.3779	26.16	9.68	35.84	56.00	-20.16	QP
8	1.3779	16.51	9.68	26.19	46.00	-19.81	AVG
9	2.3780	25.98	9.73	35.71	56.00	-20.29	QP
10	2.3780	17.20	9.73	26.93	46.00	-19.07	AVG
11	3.2940	28.62	9.77	38.39	56.00	-17.61	QP
12	3.2940	20.30	9.77	30.07	46.00	-15.93	AVG



## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

#### Below 1 GHz

#### Measurement Method and Applied Limits:

#### ANSI C63.4:

Frequency (MHz)	Class A (at 10m)		Class B (at 3m)	
	(uV/m) Field strength	(dBuV/m) Field strength	(uV/m) Field strength	(dBuV/m) Field strength
30 - 88	90	39	100	40
88 - 216	150	43.5	150	43.5
216 - 960	210	46.4	200	46
Above 960	300	49.5	500	54

#### Above 1 GHz

#### Measurement Method and Applied Limits:

#### ANSI C63.4:

Frequency (MHz)	Class A				Class B	
	(dBuV/m) (at 3m)		(dBuV/m) (at 10m)		(dBuV/m) (at 3m)	
	Peak	Average	Peak	Average	Peak	Average
Above 1000	80	60	69.5	49.5	74	54

### FREQUENCY RANGE OF RADIATED MEASUREMENT (FOR UNINTENTIONAL RADIATORS)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower

#### NOTE:

- (1) The limit for radiated test was performed according to as following:  
FCC Part 15, Subpart B
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m) = 20log Emission level (uV/m).  
3m Emission level = 10m Emission level + 20log(10m/3m).
- (4) The test result calculated as following:  
Measurement Value = Reading Level + Correct Factor  
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)  
Margin Level = Measurement Value - Limit Value

#### 4.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 26, 2018
2	Amplifier	HP	8447D	2944A09673	Nov. 08, 2017
3	Receiver	AGILENT	N9038A	MY5213003 9	Oct. 10, 2017
4	Test Cable	emci	LMR-400(30 MHz-1GHz)	C-01	Jun. 27, 2017
5	Control	CT	SC100	N/A	N/A
6	Position Control	MF	MF-7802	MF7802084 16	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1- 01	N/A	N/A
8	Amplifier	Agilent	8449B	3008A02274	Oct. 31, 2017
9	Receiver	AGILENT	N9038A	MY5213003 9	Oct. 10, 2017
10	Test Cable	emci	EMC104-SM- SM-10000(1 GHz – 26.5GHz)	C-68	Jun. 27, 2017
11	Measurement Software	Farad	EZ-EMC Ver.NB-03A1- 01	N/A	N/A

Remark: "N/A" denotes no model name, serial no. or calibration specified.  
All calibration period of equipment list is one year.

#### 4.2.3 TEST PROCEDURE

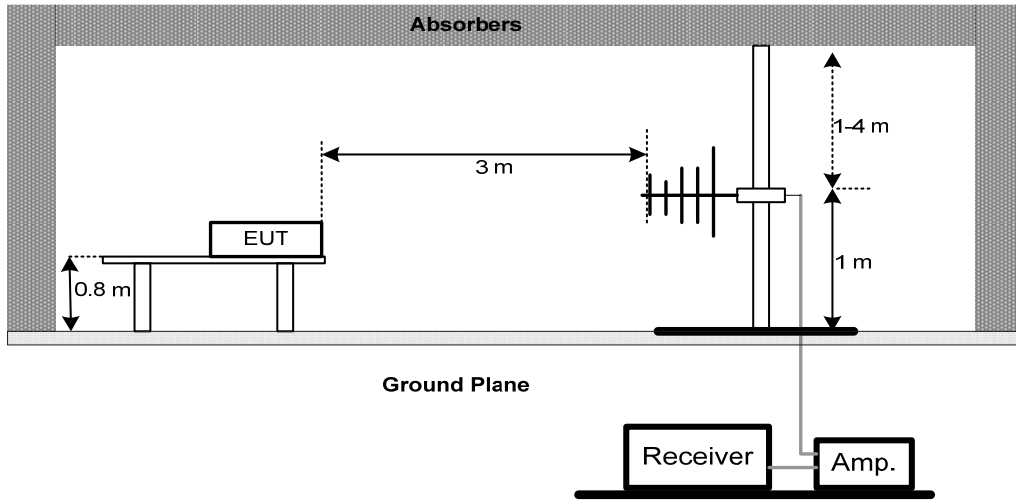
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item - Block Diagram of system tested (please refer to 3.3).

#### 4.2.4 DEVIATION FROM TEST STANDARD

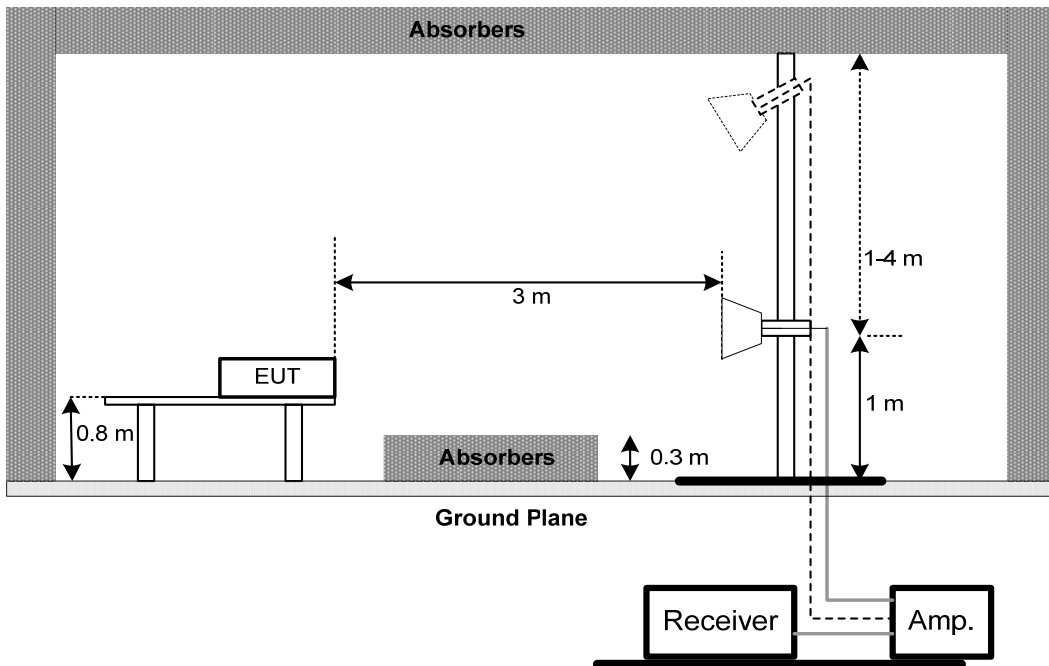
No deviation

### 4.2.5 TEST SETUP

#### (A) Radiated Emission Test Set-Up Frequency Below 1 GHz



#### (B) Radiated Emission Test Set-Up Frequency 1 GHz

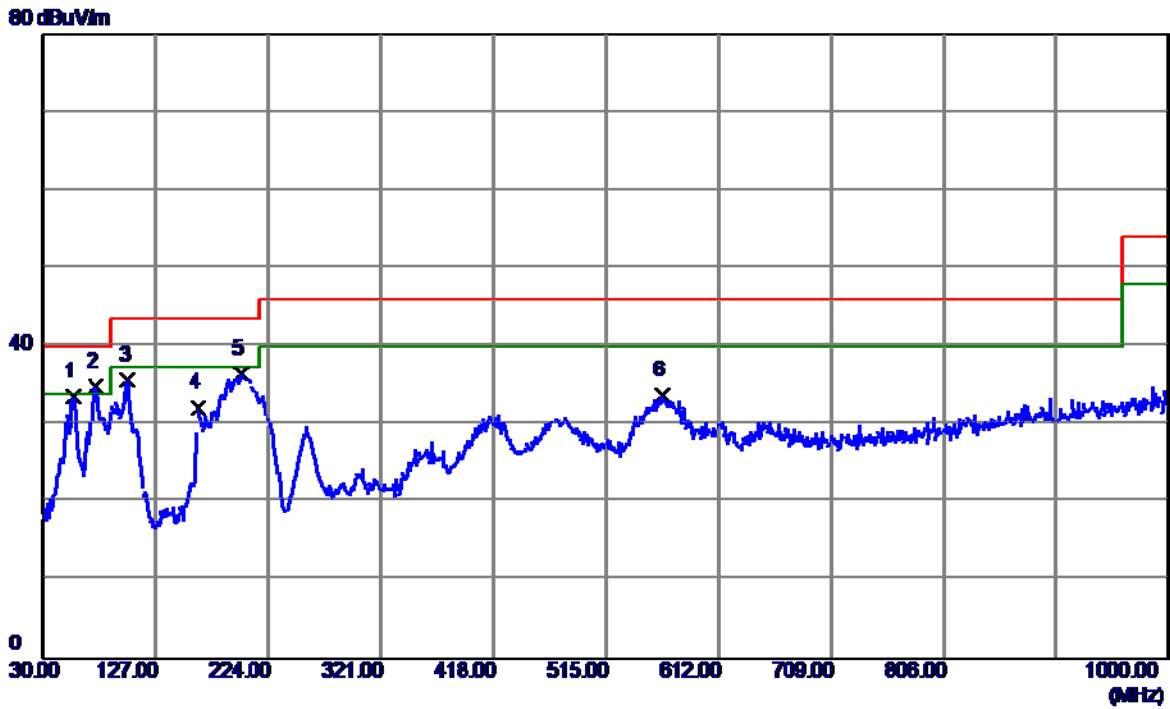


### 4.2.6 TEST RESULTS-BELOW 1GHZ

Remark :

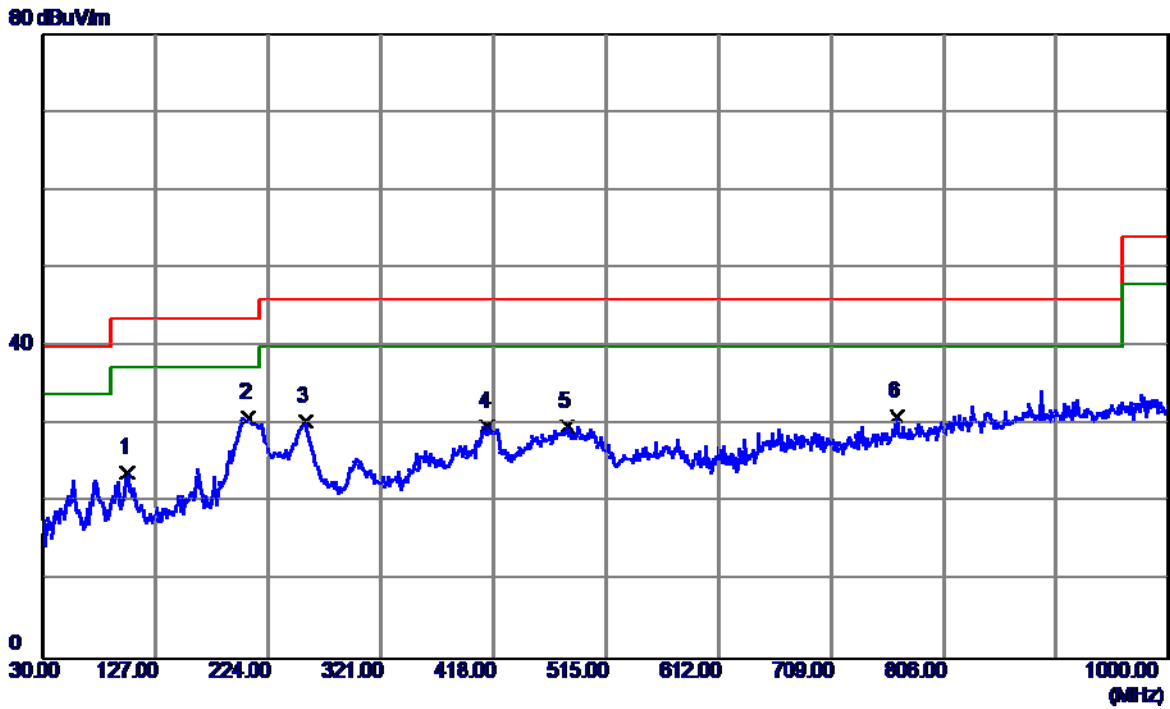
- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (2) Measuring frequency range from 30MHz to 1000MHz ◦
- (3) If the peak scan value lower limit more than 20dB, then this signal data does not show in table ◦

EUT	Smart Watch	Model Name	LEO-BX9
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	BT+WIFI		
Note	battery: Desay		
Test Engineer	Kevin Li		



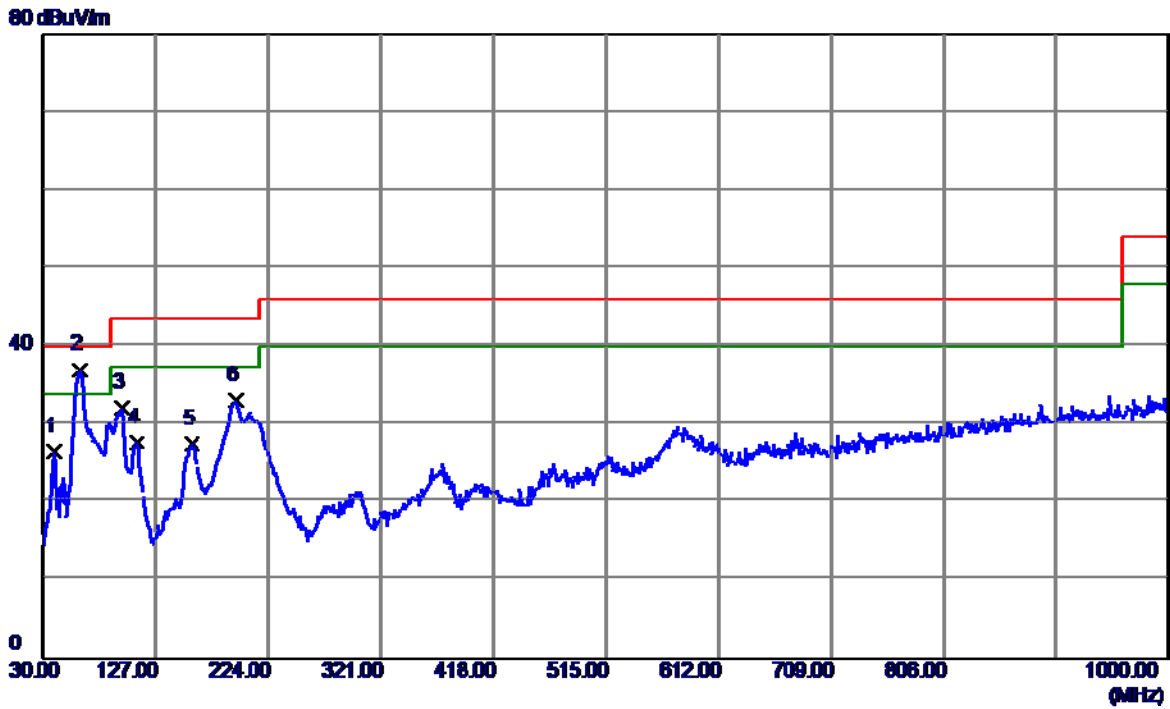
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1	56.1900	45.82	-12.22	33.60	40.00	-6.40	QP
2 *	75.5899	50.73	-15.78	34.95	40.00	-5.05	QP
3	102.7500	52.13	-16.41	35.72	43.50	-7.78	QP
4	163.8600	43.52	-11.36	32.16	43.50	-11.34	QP
5	200.7200	48.67	-12.20	36.47	43.50	-7.03	QP
6	563.5000	38.09	-4.33	33.76	46.00	-12.24	QP

EUT	Smart Watch	Model Name	LEO-BX9
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	BT+WIFI		
Note	battery: Desay		
Test Engineer	Kevin Li		



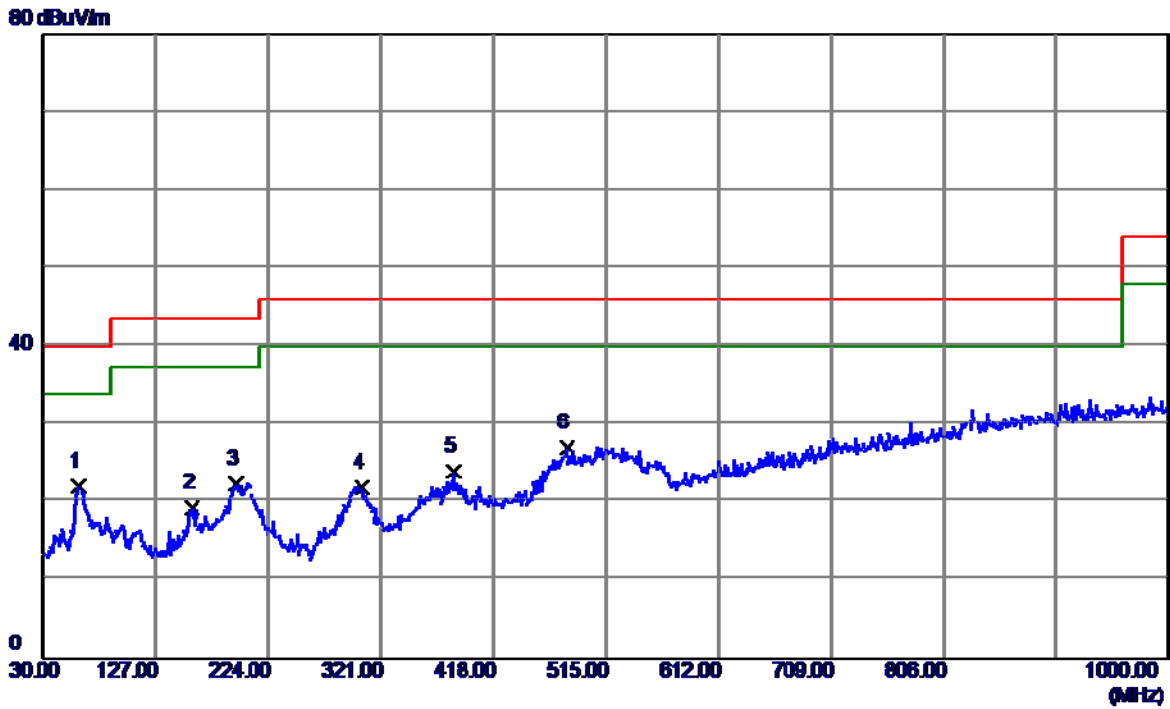
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1	102.7500	40.26	-16.41	23.85	43.50	-19.65	QP
2 *	206.5399	43.58	-12.76	30.82	43.50	-12.68	QP
3	256.0100	43.84	-13.46	30.38	46.00	-15.62	QP
4	413.1500	37.67	-7.89	29.78	46.00	-16.22	QP
5	482.0200	35.99	-6.26	29.73	46.00	-16.27	QP
6	766.2300	30.82	0.16	30.98	46.00	-15.02	QP

EUT	Smart Watch	Model Name	LEO-BX9
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	BT+WIFI		
Note	battery:Coslight		
Test Engineer	Kevin Li		



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1	39.7000	40.27	-13.77	26.50	40.00	-13.50	QP
2 *	61.0400	51.24	-14.20	37.04	40.00	-2.96	QP
3	97.9000	49.82	-17.73	32.09	43.50	-11.41	QP
4	110.5100	43.56	-15.82	27.74	43.50	-15.76	QP
5	158.0399	40.21	-12.67	27.54	43.50	-15.96	QP
6	195.8700	46.12	-12.97	33.15	43.50	-10.35	QP

EUT	Smart Watch	Model Name	LEO-BX9
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	BT+WIFI		
Note	battery:Coslight		
Test Engineer	Kevin Li		



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1 *	60.0700	36.05	-14.04	22.01	40.00	-17.99	QP
2	158.0399	32.03	-12.67	19.36	43.50	-24.14	QP
3	195.8700	35.43	-12.97	22.46	43.50	-21.04	QP
4	304.5100	34.19	-12.20	21.99	46.00	-24.01	QP
5	383.0799	34.87	-10.92	23.95	46.00	-22.05	QP
6	481.0500	35.50	-8.42	27.08	46.00	-18.92	QP

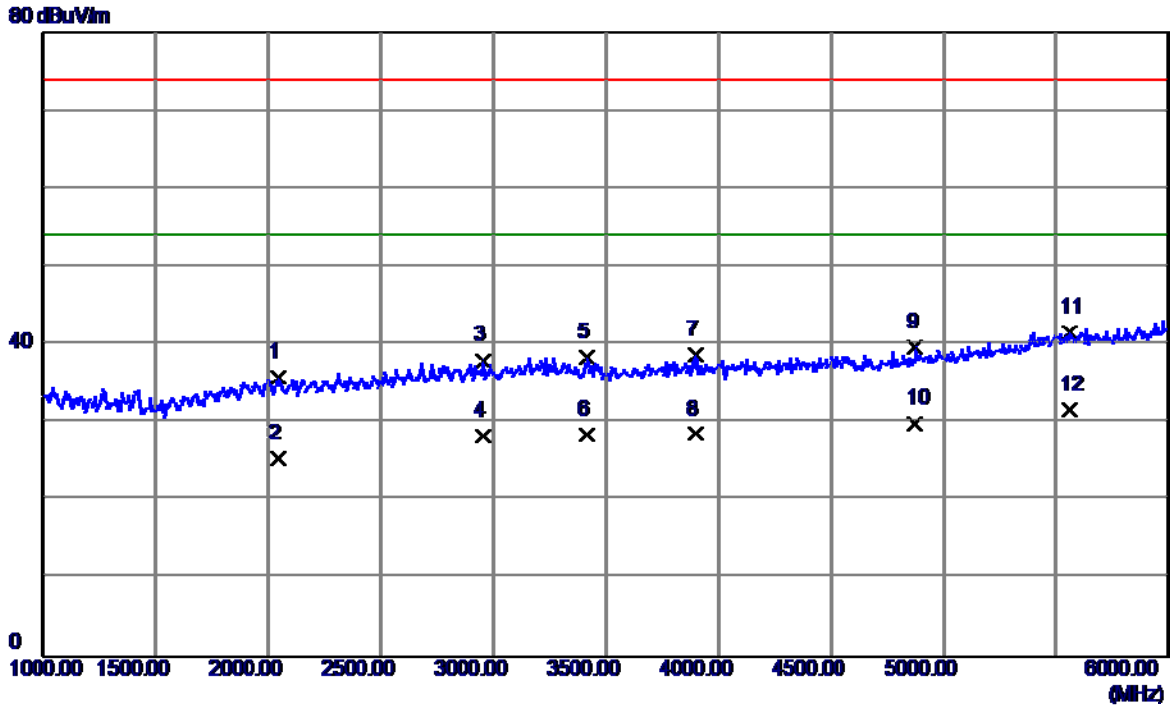


#### 4.2.7 TEST RESULTS-ABOVE 1GHZ

Remark :

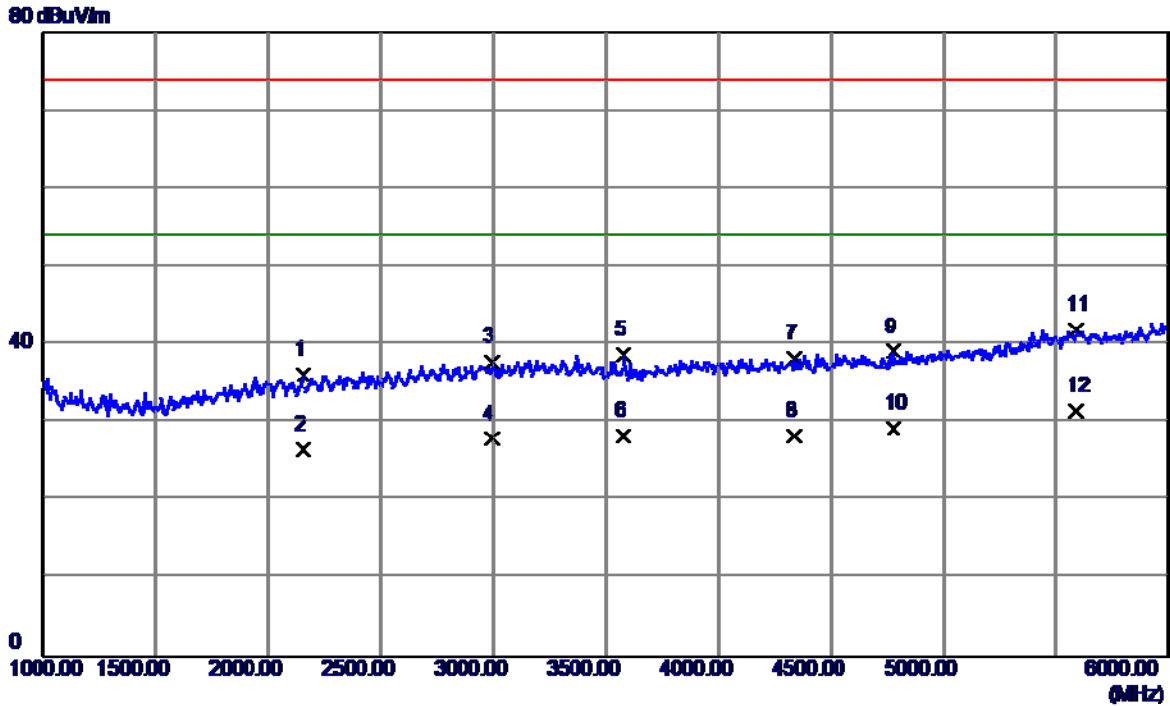
- (1) All readings are Peak unless otherwise stated QP in column of『 Note 』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (3) Data of measurement within this frequency range shown “ \* ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

EUT	Smart Watch	Model Name	LEO-BX9
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	BT+WIFI		
Note	battery: Desay		
Test Engineer	Kevin Li		



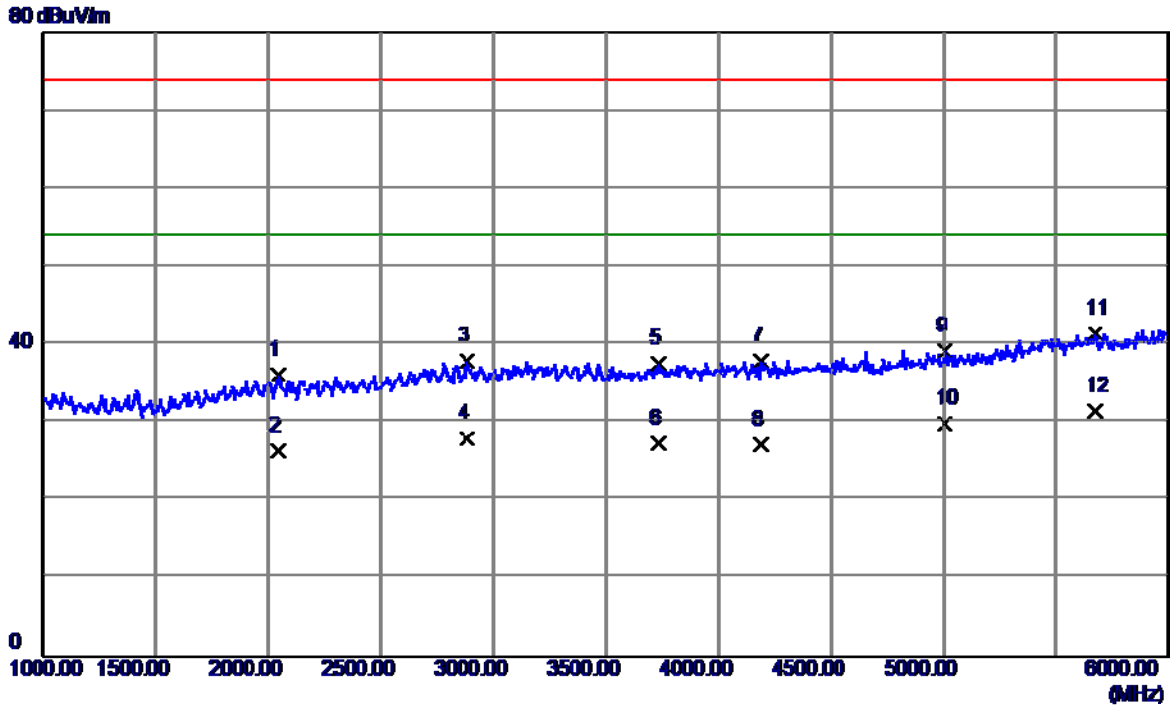
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1	2045.0000	38.13	-2.23	35.90	74.00	-38.10	Peak
2	2045.0000	27.70	-2.23	25.47	54.00	-28.53	AVG
3	2955.0000	37.02	0.98	38.00	74.00	-36.00	Peak
4	2955.0000	27.35	0.98	28.33	54.00	-25.67	AVG
5	3415.0000	36.44	1.96	38.40	74.00	-35.60	Peak
6	3415.0000	26.56	1.96	28.52	54.00	-25.48	AVG
7	3900.0000	35.56	3.18	38.74	74.00	-35.26	Peak
8	3900.0000	25.38	3.18	28.56	54.00	-25.44	AVG
9	4875.0000	34.10	5.61	39.71	74.00	-34.29	Peak
10	4875.0000	24.24	5.61	29.85	54.00	-24.15	AVG
11	5560.0000	32.72	8.83	41.55	74.00	-32.45	Peak
12 *	5560.0000	22.78	8.83	31.61	54.00	-22.39	AVG

EUT	Smart Watch	Model Name	LEO-BX9
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	BT+WIFI		
Note	battery: Desay		
Test Engineer	Kevin Li		



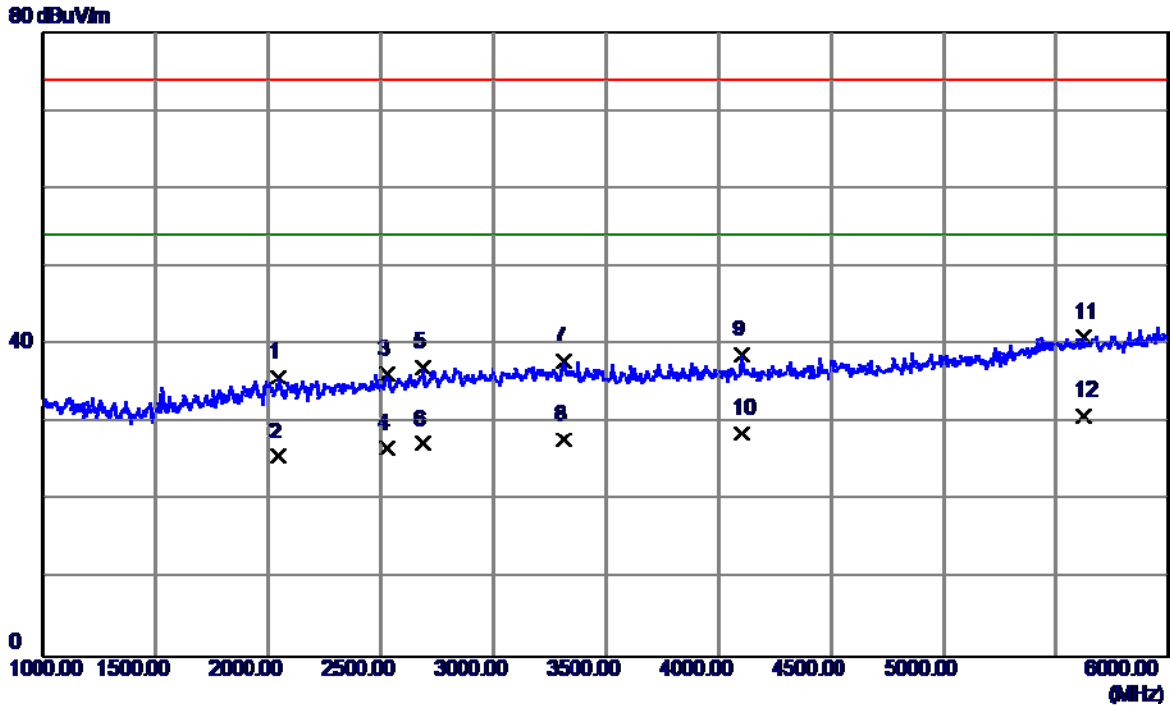
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector
1	2155.0000	38.08	-1.88	36.20	74.00	-37.80	Peak
2	2155.0000	28.41	-1.88	26.53	54.00	-27.47	AVG
3	2995.0000	36.61	1.13	37.74	74.00	-36.26	Peak
4	2995.0000	26.79	1.13	27.92	54.00	-26.08	AVG
5	3580.0000	36.38	2.33	38.71	74.00	-35.29	Peak
6	3580.0000	26.02	2.33	28.35	54.00	-25.65	AVG
7	4340.0000	33.94	4.23	38.17	74.00	-35.83	Peak
8	4340.0000	24.09	4.23	28.32	54.00	-25.68	AVG
9	4780.0000	33.76	5.36	39.12	74.00	-34.88	Peak
10	4780.0000	23.98	5.36	29.34	54.00	-24.66	AVG
11	5590.0000	32.93	8.93	41.86	74.00	-32.14	Peak
12 *	5590.0000	22.65	8.93	31.58	54.00	-22.42	AVG

EUT	Smart Watch	Model Name	LEO-BX9
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	BT+WIFI		
Note	battery:Coslight		
Test Engineer	Kevin Li		



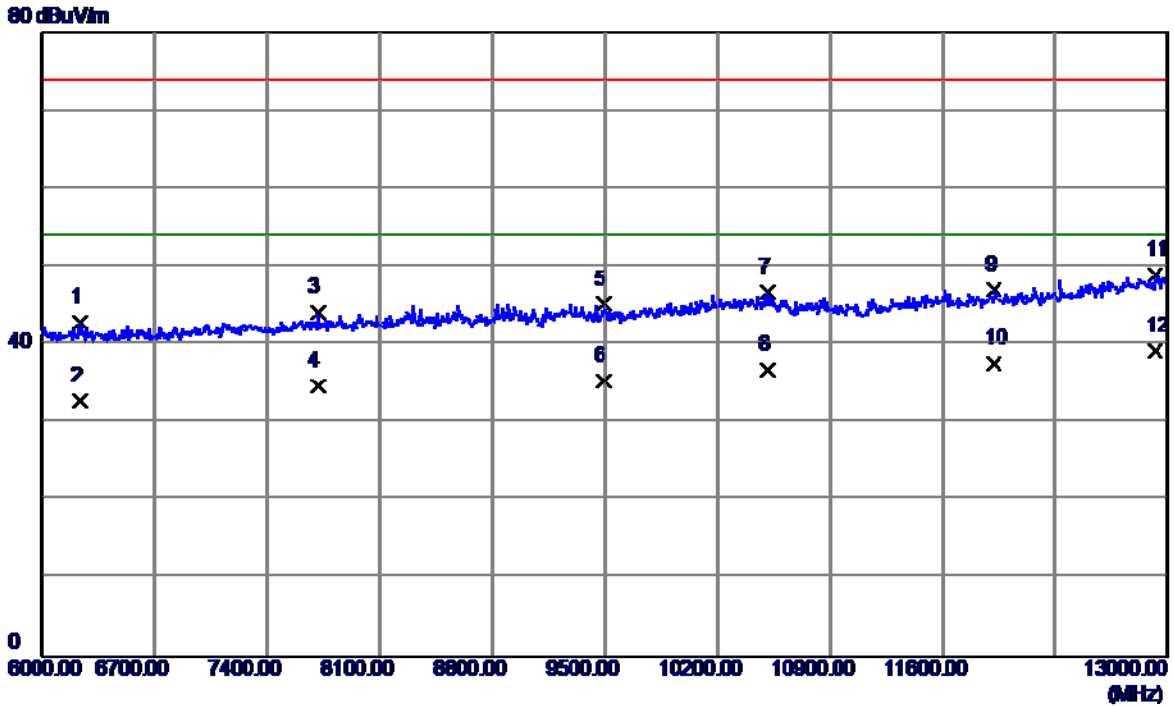
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1	2045.0000	38.34	-2.23	36.11	74.00	-37.89	Peak
2	2045.0000	28.68	-2.23	26.45	54.00	-27.55	AVG
3	2885.0000	37.22	0.70	37.92	74.00	-36.08	Peak
4	2885.0000	27.23	0.70	27.93	54.00	-26.07	AVG
5	3735.0000	34.93	2.74	37.67	74.00	-36.33	Peak
6	3735.0000	24.64	2.74	27.38	54.00	-26.62	AVG
7	4190.0000	33.97	3.88	37.85	74.00	-36.15	Peak
8	4190.0000	23.33	3.88	27.21	54.00	-26.79	AVG
9	5005.0000	33.17	5.98	39.15	74.00	-34.85	Peak
10	5005.0000	23.87	5.98	29.85	54.00	-24.15	AVG
11	5670.0000	32.23	9.20	41.43	74.00	-32.57	Peak
12 *	5670.0000	22.36	9.20	31.56	54.00	-22.44	AVG

EUT	Smart Watch	Model Name	LEO-BX9
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	BT+WIFI		
Note	battery:Coslight		
Test Engineer	Kevin Li		



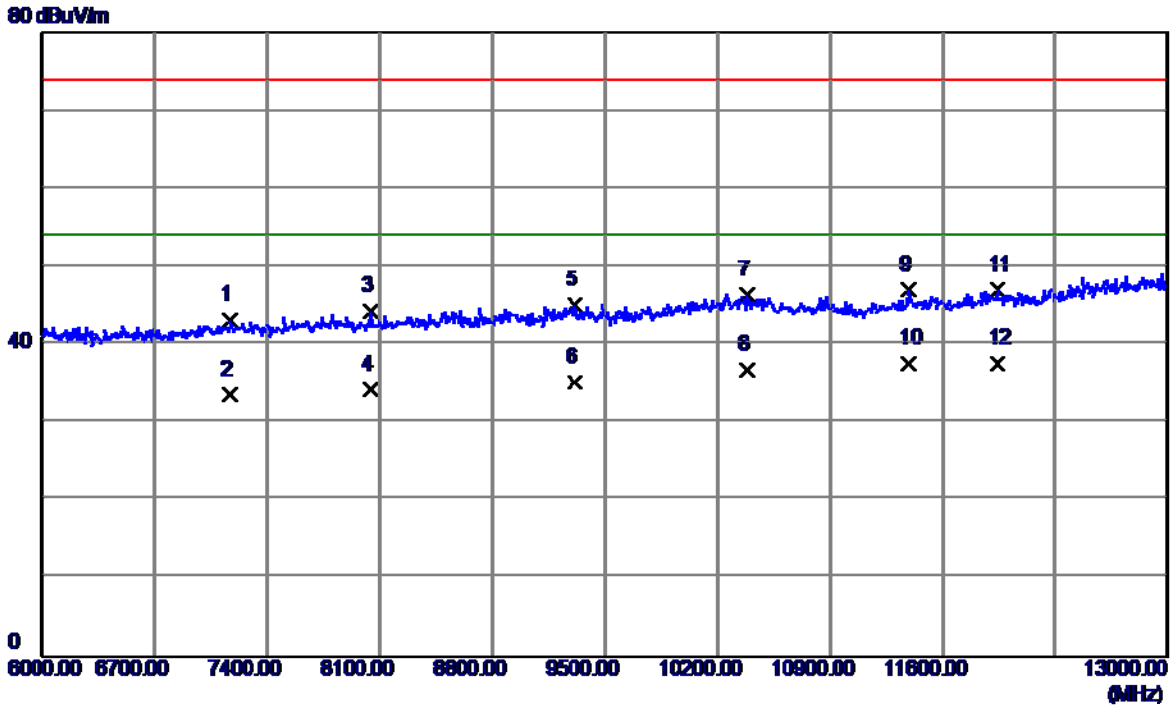
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1	2045.0000	38.15	-2.23	35.92	74.00	-38.08	Peak
2	2045.0000	27.91	-2.23	25.68	54.00	-28.32	AVG
3	2530.0000	36.91	-0.67	36.24	74.00	-37.76	Peak
4	2530.0000	27.45	-0.67	26.78	54.00	-27.22	AVG
5	2690.0000	37.22	-0.05	37.17	74.00	-36.83	Peak
6	2690.0000	27.33	-0.05	27.28	54.00	-26.72	AVG
7	3310.0000	36.12	1.75	37.87	74.00	-36.13	Peak
8	3310.0000	26.11	1.75	27.86	54.00	-26.14	AVG
9	4105.0000	35.04	3.68	38.72	74.00	-35.28	Peak
10	4105.0000	25.01	3.68	28.69	54.00	-25.31	AVG
11	5620.0000	31.92	9.03	40.95	74.00	-33.05	Peak
12 *	5620.0000	21.79	9.03	30.82	54.00	-23.18	AVG

EUT	Smart Watch	Model Name	LEO-BX9
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	BT+WIFI		
Note	battery: Desay		
Test Engineer	Kevin Li		



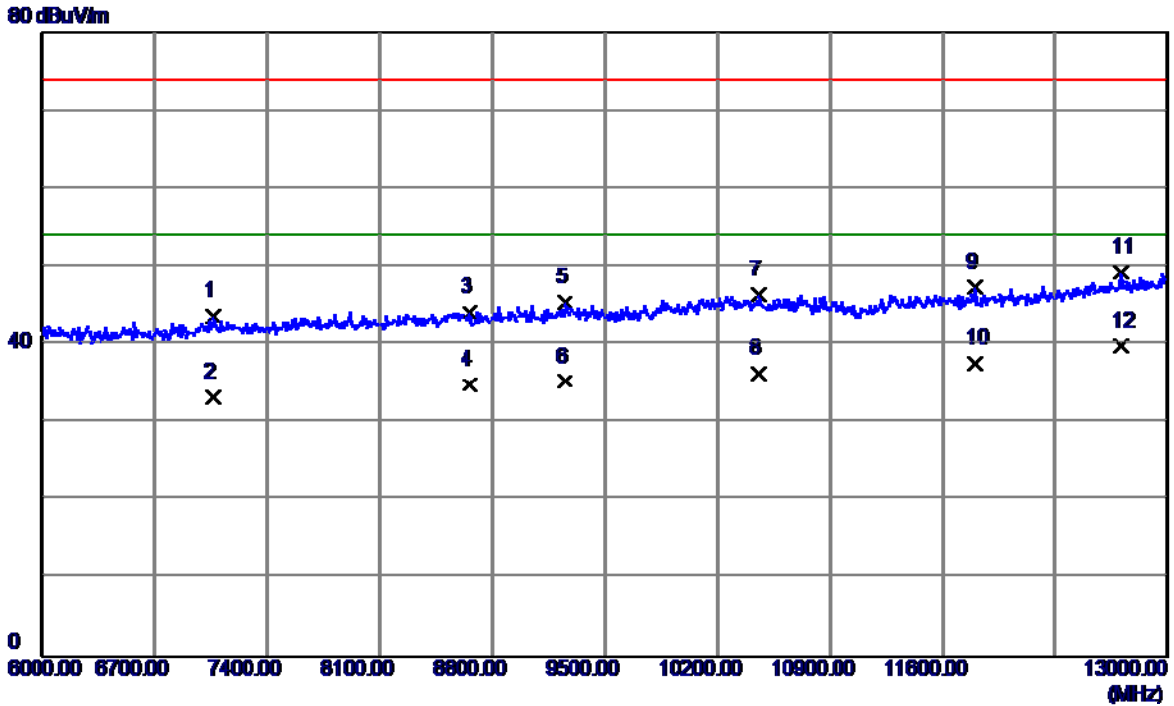
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector
1	6231.0000	32.21	10.67	42.88	74.00	-31.12	Peak
2	6231.0000	22.15	10.67	32.82	54.00	-21.18	AVG
3	7715.0000	31.35	12.76	44.11	74.00	-29.89	Peak
4	7715.0000	21.91	12.76	34.67	54.00	-19.33	AVG
5	9493.0000	30.90	14.30	45.20	74.00	-28.80	Peak
6	9493.0000	20.99	14.30	35.29	54.00	-18.71	AVG
7	10515.0000	30.04	16.61	46.65	74.00	-27.35	Peak
8	10515.0000	20.21	16.61	36.82	54.00	-17.18	AVG
9	11922.0000	29.79	17.23	47.02	74.00	-26.98	Peak
10	11922.0000	20.31	17.23	37.54	54.00	-16.46	AVG
11	12923.0000	29.35	19.67	49.02	74.00	-24.98	Peak
12 *	12923.0000	19.58	19.67	39.25	54.00	-14.75	AVG

EUT	Smart Watch	Model Name	LEO-BX9
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	BT+WIFI		
Note	battery: Desay		
Test Engineer	Kevin Li		



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1	7169.0000	31.16	11.98	43.14	74.00	-30.86	Peak
2	7169.0000	21.56	11.98	33.54	54.00	-20.46	AVG
3	8044.0000	31.14	13.21	44.35	74.00	-29.65	Peak
4	8044.0000	21.07	13.21	34.28	54.00	-19.72	AVG
5	9311.0000	30.79	14.36	45.15	74.00	-28.85	Peak
6	9311.0000	20.91	14.36	35.27	54.00	-18.73	AVG
7	10389.0000	30.14	16.31	46.45	74.00	-27.55	Peak
8	10389.0000	20.43	16.31	36.74	54.00	-17.26	AVG
9	11390.0000	30.15	16.88	47.03	74.00	-26.97	Peak
10 *	11390.0000	20.74	16.88	37.62	54.00	-16.38	AVG
11	11943.0000	29.87	17.24	47.11	74.00	-26.89	Peak
12	11943.0000	20.34	17.24	37.58	54.00	-16.42	AVG

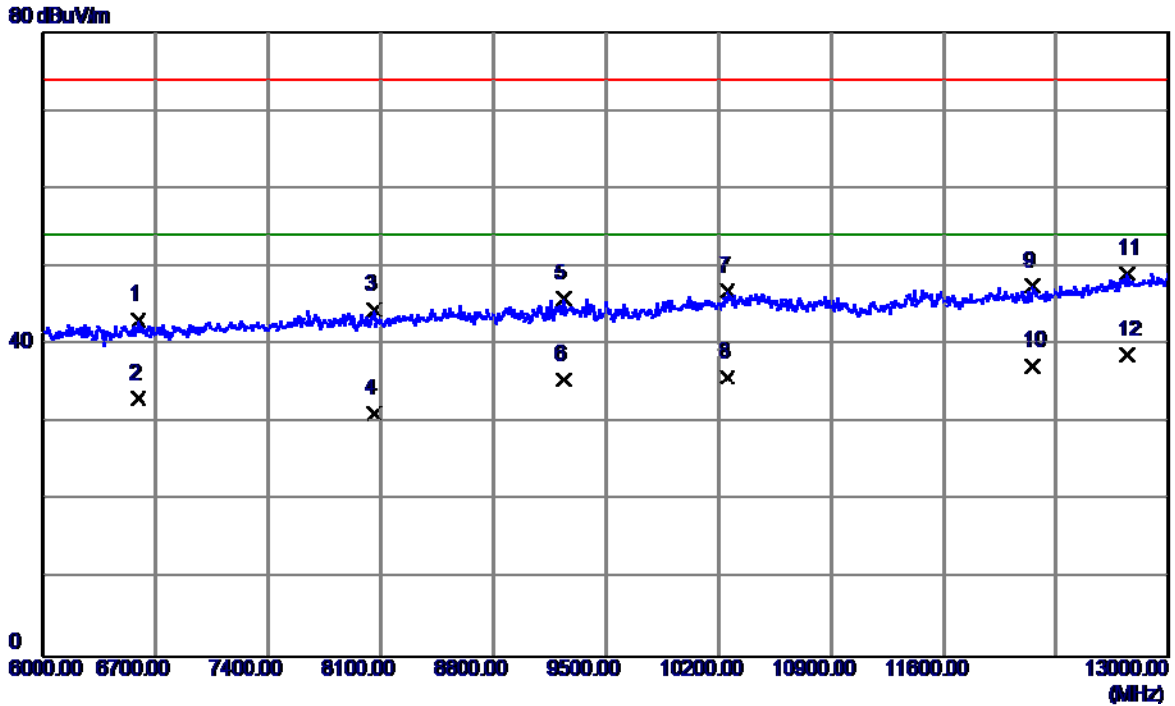
EUT	Smart Watch	Model Name	LEO-BX9
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	BT+WIFI		
Note	battery:Coslight		
Test Engineer	Kevin Li		



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1	7064.0000	31.81	11.82	43.63	74.00	-30.37	Peak
2	7064.0000	21.45	11.82	33.27	54.00	-20.73	AVG
3	8660.0000	29.97	14.24	44.21	74.00	-29.79	Peak
4	8660.0000	20.62	14.24	34.86	54.00	-19.14	AVG
5	9255.0000	31.05	14.38	45.43	74.00	-28.57	Peak
6	9255.0000	20.90	14.38	35.28	54.00	-18.72	AVG
7	10459.0000	29.95	16.51	46.46	74.00	-27.54	Peak
8	10459.0000	19.74	16.51	36.25	54.00	-17.75	AVG
9	11803.0000	30.12	17.18	47.30	74.00	-26.70	Peak
10	11803.0000	20.35	17.18	37.53	54.00	-16.47	AVG
11	12713.0000	30.39	18.95	49.34	74.00	-24.66	Peak
12 *	12713.0000	20.83	18.95	39.78	54.00	-14.22	AVG



EUT	Smart Watch	Model Name	LEO-BX9
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	BT+WIFI		
Note	battery:Coslight		
Test Engineer	Kevin Li		



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1	6588.0000	31.98	11.18	43.16	74.00	-30.84	Peak
2	6588.0000	21.97	11.18	33.15	54.00	-20.85	AVG
3	8058.0000	31.26	13.24	44.50	74.00	-29.50	Peak
4	8058.0000	18.03	13.24	31.27	54.00	-22.73	AVG
5	9234.0000	31.56	14.39	45.95	74.00	-28.05	Peak
6	9234.0000	21.19	14.39	35.58	54.00	-18.42	AVG
7	10256.0000	30.97	15.94	46.91	74.00	-27.09	Peak
8	10256.0000	19.92	15.94	35.86	54.00	-18.14	AVG
9	12153.0000	30.01	17.55	47.56	74.00	-26.44	Peak
10	12153.0000	19.76	17.55	37.31	54.00	-16.69	AVG
11	12741.0000	30.14	19.04	49.18	74.00	-24.82	Peak
12 *	12741.0000	19.63	19.04	38.67	54.00	-15.33	AVG