

FCC Test Report

FCC ID: QISLEO-BX9

Project No. : 1612C286
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 : Dec. 29, 2016
Date of Test : Dec. 29, 2016 ~ Jan. 10, 2017
Issued Date : Jan. 11, 2017
Tested by : BTL Inc.

Testing Engineer : Kevin Li
(Kevin Li)

Technical Manager : Bill Zhang
(Bill Zhang)

Authorized Signatory : Steven Lu
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Declaration

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BTL's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

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 Issue.	Jan. 11, 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 : Dec. 29, 2016 ~ Jan. 10, 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-1-1612C286) 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 is 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.	

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

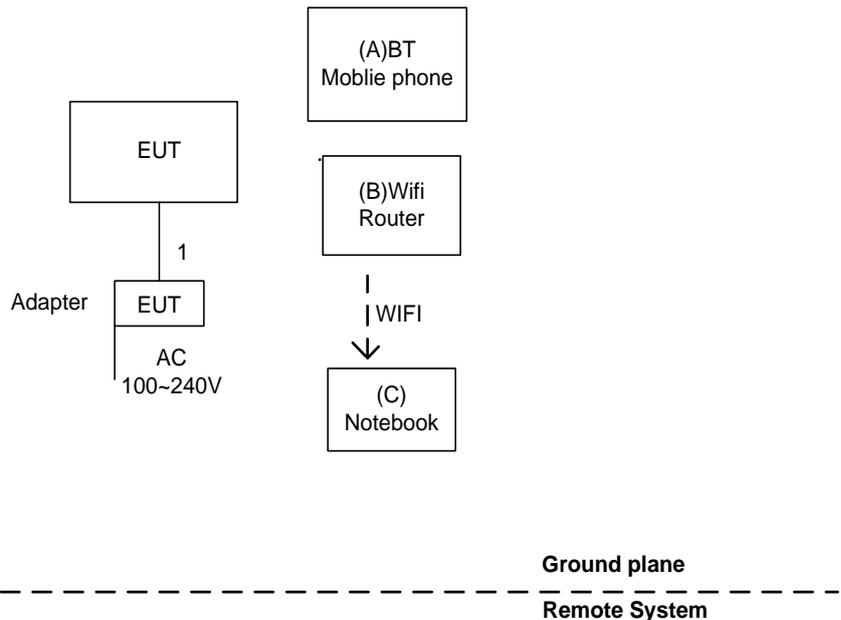
For Conducted Test	
Final Test Mode	Description
Mode 1	BT+WIFI

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



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	DOC	N/A
B	Router	TP-LINK	TL-WR1041N	DOC	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	LISN	EMCO	3816/2	0052765	Mar. 27, 2017
2	LISN	R&S	ENV216	101447	Mar. 27, 2017
3	Test Cable	emci	RG223(9K Hz-30MHz)	C_17	Mar. 10, 2017
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 27, 2017
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A 1-01	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.

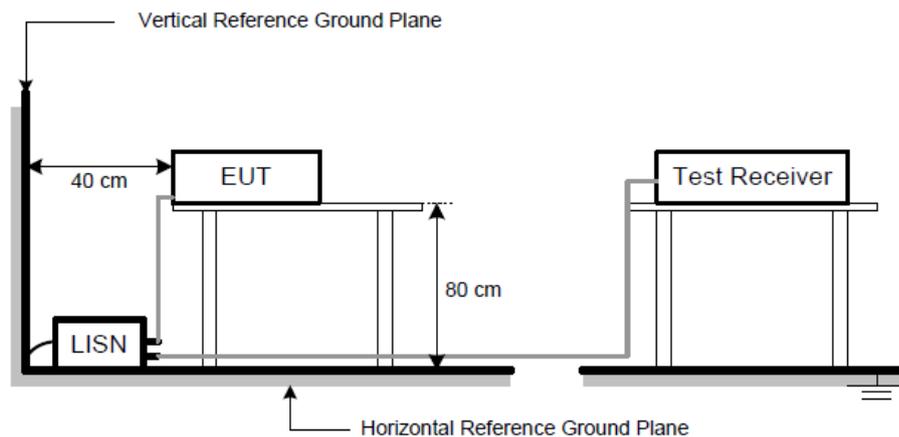
4.1.3 TEST PROCEDURE

- 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 equipment 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

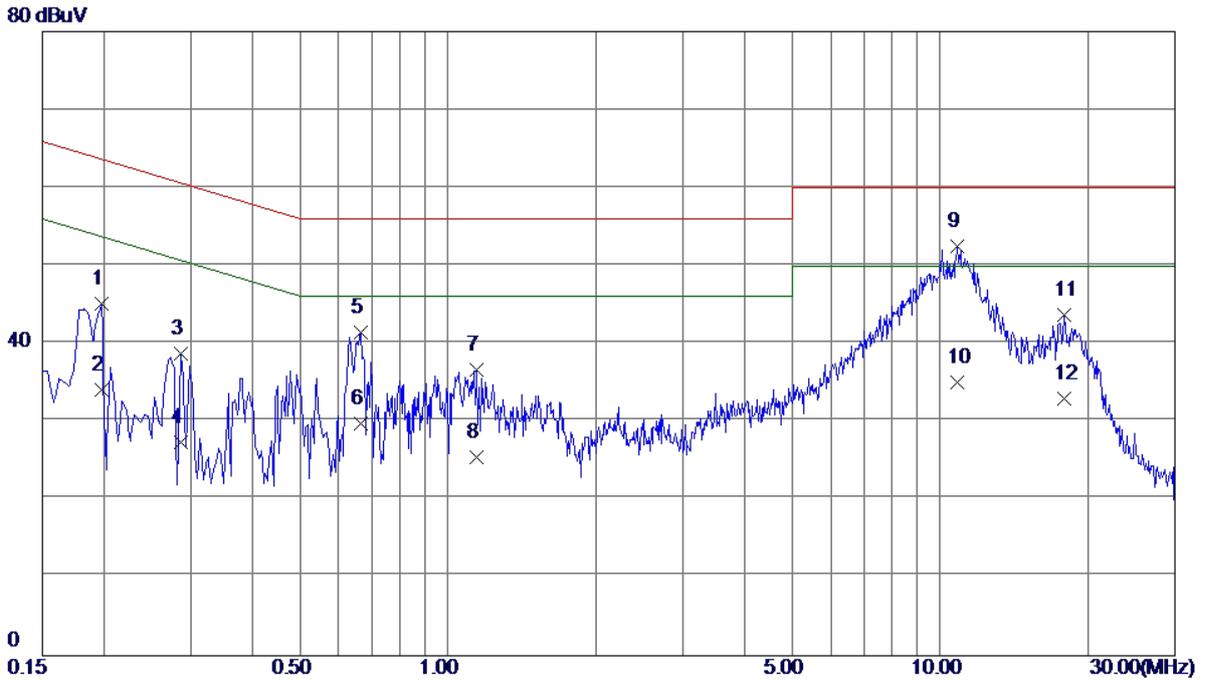


4.1.6 TEST RESULTS

Remark

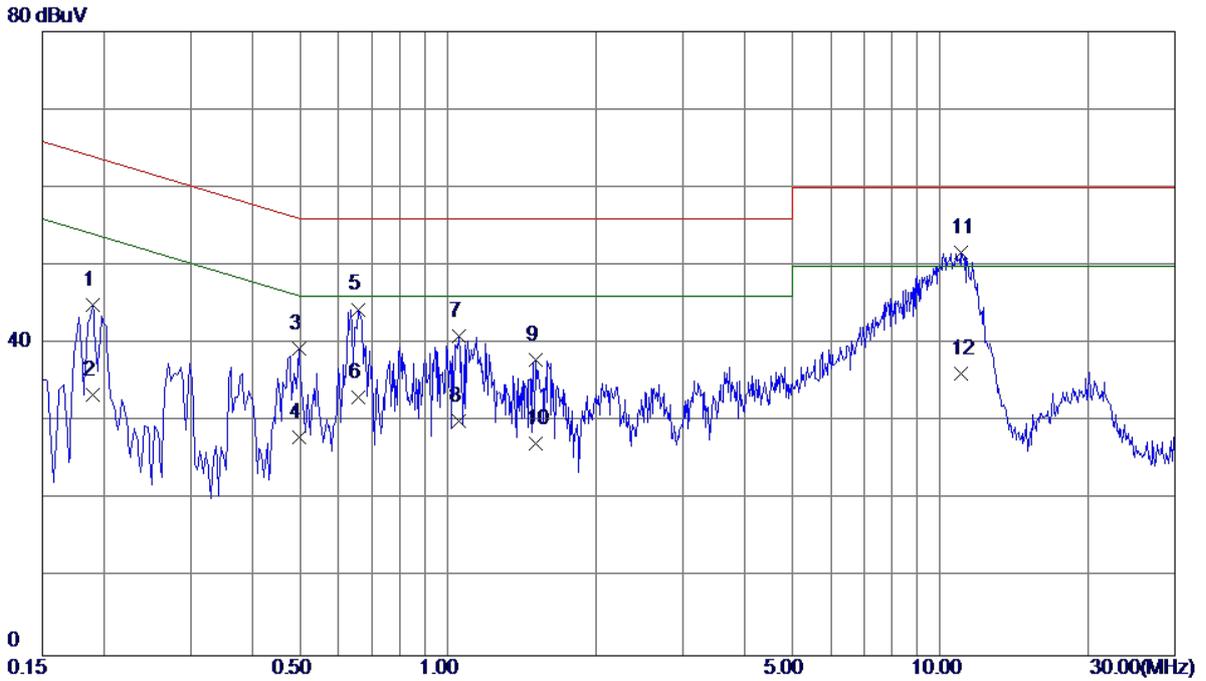
- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz. Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10KHz,VBW=10KHz, Swp. Time =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	24°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Phase	Line
Test Mode	BT+WIFI		
Note	Adapter: PHITEK		
Test Engineer	Kevin Li		



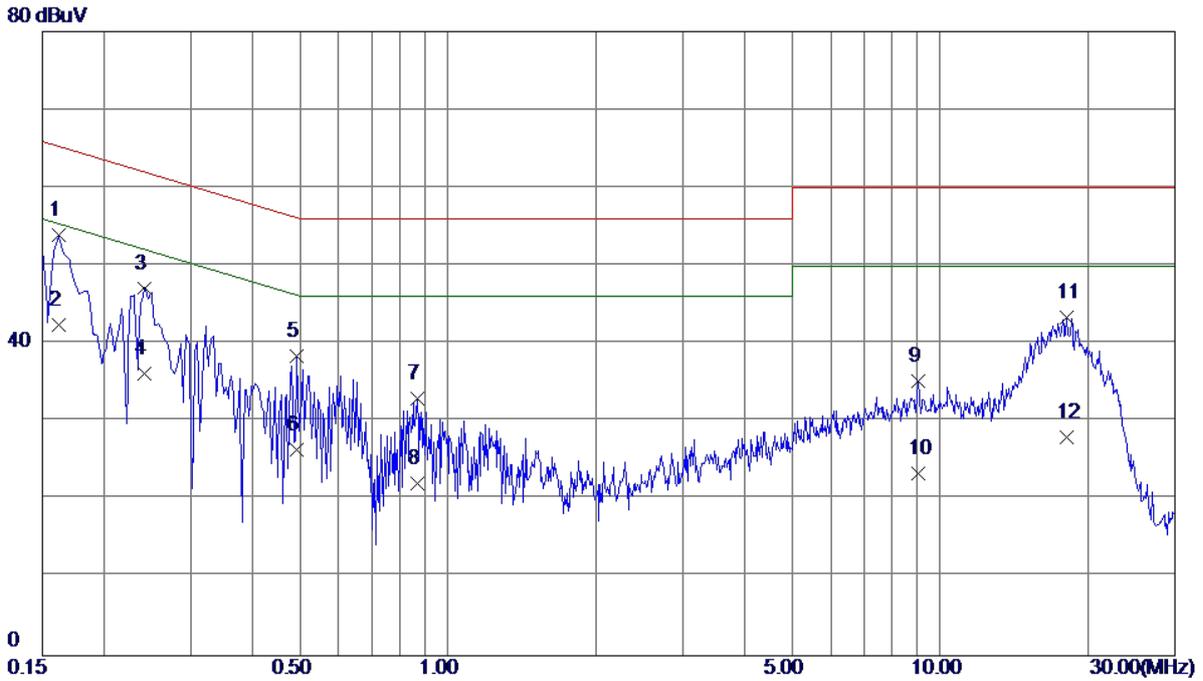
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector
1	0.1980	35.58	9.53	45.11	63.69	-18.58	QP
2	0.1980	24.60	9.53	34.13	53.69	-19.56	AVG
3	0.2860	29.14	9.53	38.67	60.64	-21.97	QP
4	0.2860	17.90	9.53	27.43	50.64	-23.21	AVG
5	0.6660	31.74	9.65	41.39	56.00	-14.61	QP
6	0.6660	20.10	9.65	29.75	46.00	-16.25	AVG
7	1.1420	26.82	9.76	36.58	56.00	-19.42	QP
8	1.1420	15.70	9.76	25.46	46.00	-20.54	AVG
9 *	10.8500	42.20	10.24	52.44	60.00	-7.56	QP
10	10.8500	24.80	10.24	35.04	50.00	-14.96	AVG
11	17.9020	33.28	10.38	43.66	60.00	-16.34	QP
12	17.9020	22.60	10.38	32.98	50.00	-17.02	AVG

EUT	Smart Watch	Model Name	LEO-BX9
Temperature	24°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Phase	Neutral
Test Mode	BT+WIFI		
Note	Adapter: PHITEK		
Test Engineer	Kevin Li		



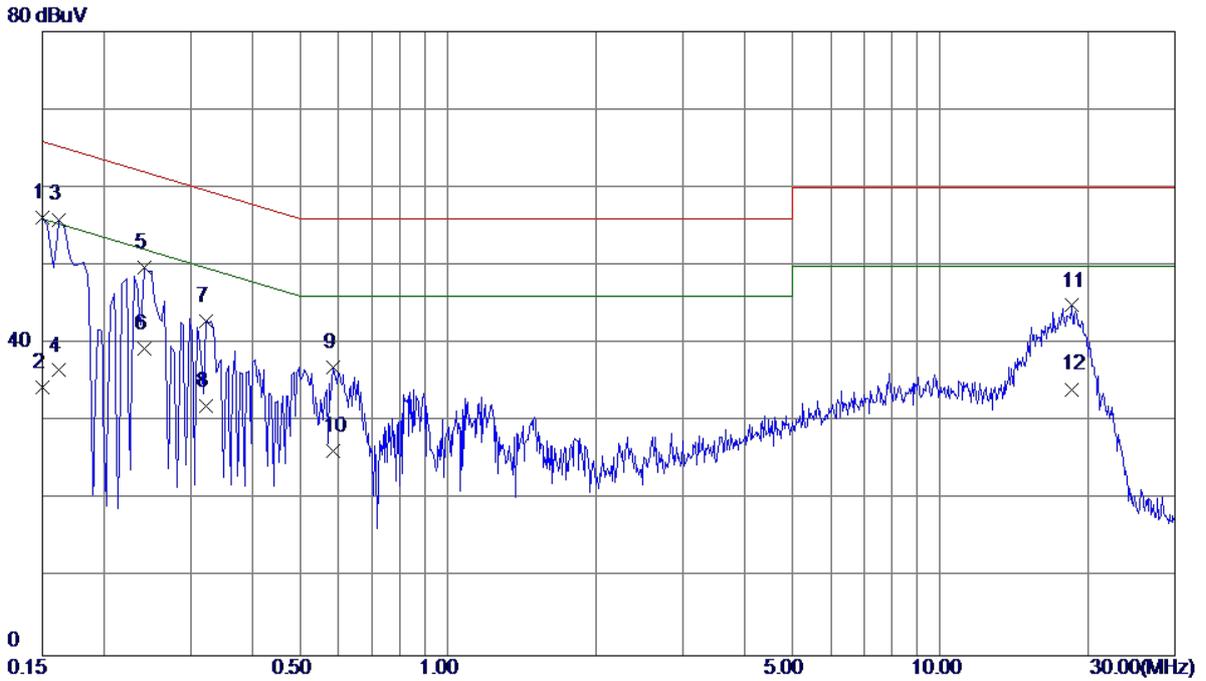
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector
1	0.1900	35.41	9.49	44.90	64.04	-19.14	QP
2	0.1900	23.91	9.49	33.40	54.04	-20.64	AVG
3	0.4980	29.96	9.44	39.40	56.03	-16.63	QP
4	0.4980	18.60	9.44	28.04	46.03	-17.99	AVG
5	0.6580	34.95	9.45	44.40	56.00	-11.60	QP
6	0.6580	23.70	9.45	33.15	46.00	-12.85	AVG
7	1.0500	31.30	9.66	40.96	56.00	-15.04	QP
8	1.0500	20.40	9.66	30.06	46.00	-15.94	AVG
9	1.5100	28.23	9.68	37.91	56.00	-18.09	QP
10	1.5100	17.50	9.68	27.18	46.00	-18.82	AVG
11 *	11.0460	41.30	10.32	51.62	60.00	-8.38	QP
12	11.0460	25.90	10.32	36.22	50.00	-13.78	AVG

EUT	Smart Watch	Model Name	LEO-BX9
Temperature	24°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Phase	Line
Test Mode	BT+WIFI		
Note	Adapter: HUNTKEY		
Test Engineer	Kevin Li		



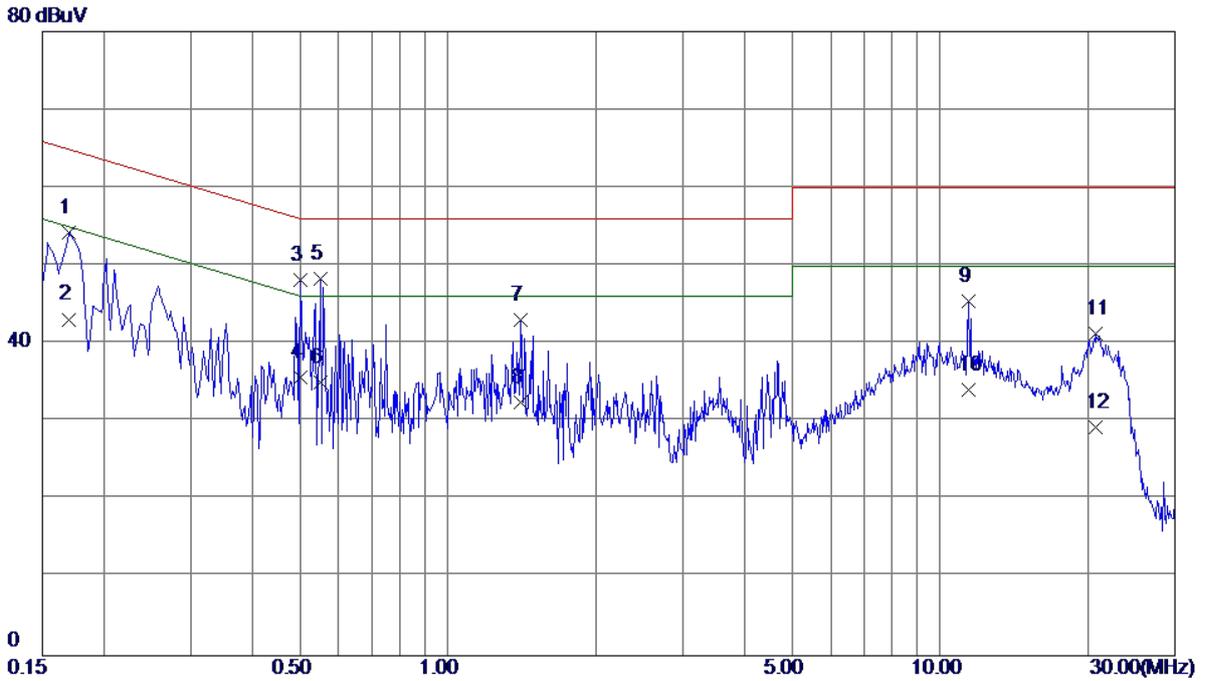
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector
1 *	0.1620	44.36	9.52	53.88	65.36	-11.48	QP
2	0.1620	32.90	9.52	42.42	55.36	-12.94	AVG
3	0.2420	37.59	9.53	47.12	62.03	-14.91	QP
4	0.2420	26.70	9.53	36.23	52.03	-15.80	AVG
5	0.4940	28.82	9.63	38.45	56.10	-17.65	QP
6	0.4940	16.80	9.63	26.43	46.10	-19.67	AVG
7	0.8660	23.19	9.75	32.94	56.00	-23.06	QP
8	0.8660	12.40	9.75	22.15	46.00	-23.85	AVG
9	9.0060	25.06	10.19	35.25	60.00	-24.75	QP
10	9.0060	13.21	10.19	23.40	50.00	-26.60	AVG
11	18.1140	32.94	10.38	43.32	60.00	-16.68	QP
12	18.1140	17.60	10.38	27.98	50.00	-22.02	AVG

EUT	Smart Watch	Model Name	LEO-BX9
Temperature	24°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Phase	Neutral
Test Mode	BT+WIFI		
Note	Adapter: HUNTKEY		
Test Engineer	Kevin Li		



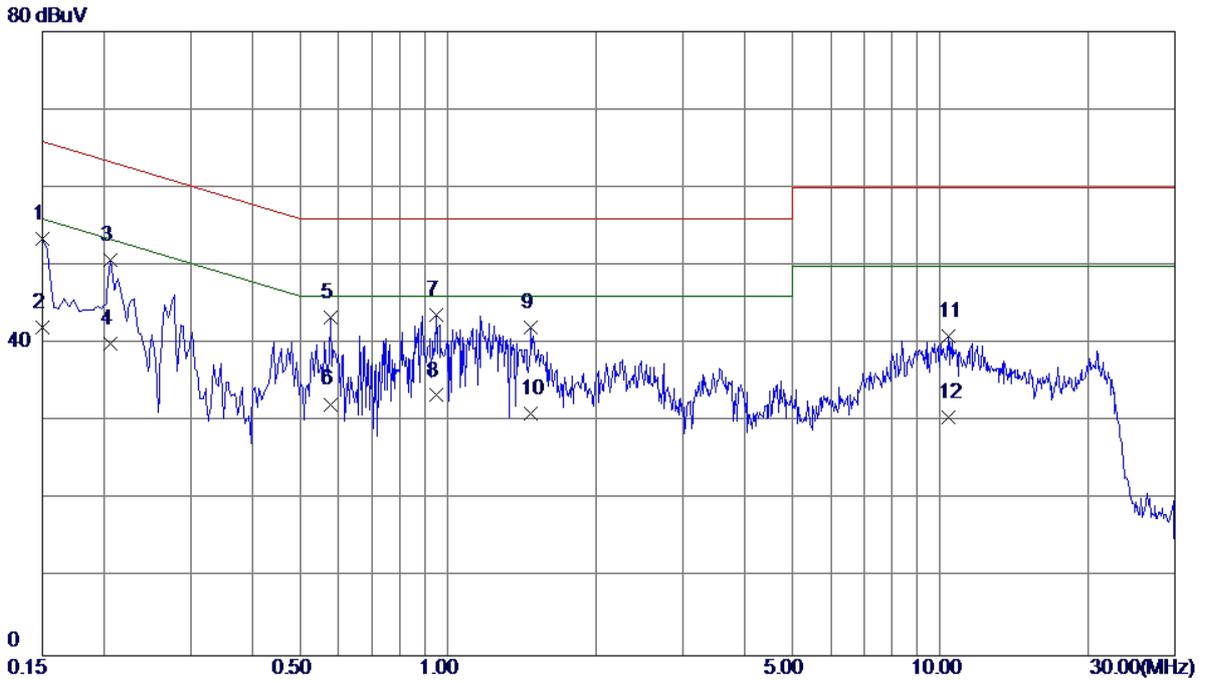
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector
1	0.1500	46.60	9.52	56.12	66.00	-9.88	QP
2	0.1500	24.90	9.52	34.42	56.00	-21.58	AVG
3 *	0.1620	46.46	9.46	55.92	65.36	-9.44	QP
4	0.1620	27.10	9.46	36.56	55.36	-18.80	AVG
5	0.2420	40.22	9.53	49.75	62.03	-12.28	QP
6	0.2420	29.80	9.53	39.33	52.03	-12.70	AVG
7	0.3220	33.37	9.53	42.90	59.66	-16.76	QP
8	0.3220	22.40	9.53	31.93	49.66	-17.73	AVG
9	0.5860	27.58	9.44	37.02	56.00	-18.98	QP
10	0.5860	16.80	9.44	26.24	46.00	-19.76	AVG
11	18.4700	34.42	10.46	44.88	60.00	-15.12	QP
12	18.4700	23.70	10.46	34.16	50.00	-15.84	AVG

EUT	Smart Watch	Model Name	LEO-BX9
Temperature	24°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Phase	Line
Test Mode	BT+WIFI		
Note	Adapter: BYD		
Test Engineer	Kevin Li		



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector
1	0.1700	44.78	9.52	54.30	64.96	-10.66	QP
2	0.1700	33.60	9.52	43.12	54.96	-11.84	AVG
3	0.5020	38.54	9.64	48.18	56.00	-7.82	QP
4	0.5020	26.10	9.64	35.74	46.00	-10.26	AVG
5 *	0.5500	38.70	9.64	48.34	56.00	-7.66	QP
6	0.5500	25.40	9.64	35.04	46.00	-10.96	AVG
7	1.4020	33.23	9.84	43.07	56.00	-12.93	QP
8	1.4020	22.70	9.84	32.54	46.00	-13.46	AVG
9	11.4300	35.18	10.25	45.43	60.00	-14.57	QP
10	11.4300	23.80	10.25	34.05	50.00	-15.95	AVG
11	20.7380	30.95	10.40	41.35	60.00	-18.65	QP
12	20.7380	18.90	10.40	29.30	50.00	-20.70	AVG

EUT	Smart Watch	Model Name	LEO-BX9
Temperature	24°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Phase	Neutral
Test Mode	BT+WIFI		
Note	Adapter: BYD		
Test Engineer	Kevin Li		



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector
1	0.1500	43.92	9.52	53.44	66.00	-12.56	QP
2	0.1500	32.60	9.52	42.12	56.00	-13.88	AVG
3	0.2060	41.26	9.53	50.79	63.37	-12.58	QP
4	0.2060	30.40	9.53	39.93	53.37	-13.44	AVG
5	0.5780	33.99	9.44	43.43	56.00	-12.57	QP
6	0.5780	22.80	9.44	32.24	46.00	-13.76	AVG
7 *	0.9460	34.07	9.66	43.73	56.00	-12.27	QP
8	0.9460	23.70	9.66	33.36	46.00	-12.64	AVG
9	1.4740	32.39	9.67	42.06	56.00	-13.94	QP
10	1.4740	21.40	9.67	31.07	46.00	-14.93	AVG
11	10.3700	30.59	10.31	40.90	60.00	-19.10	QP
12	10.3700	20.30	10.31	30.61	50.00	-19.39	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 th 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. 27, 2017
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

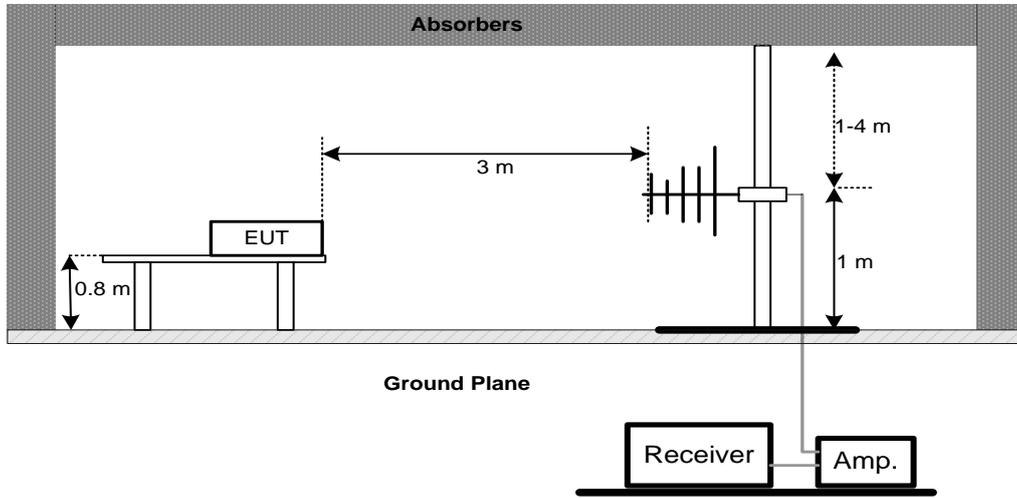
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance 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

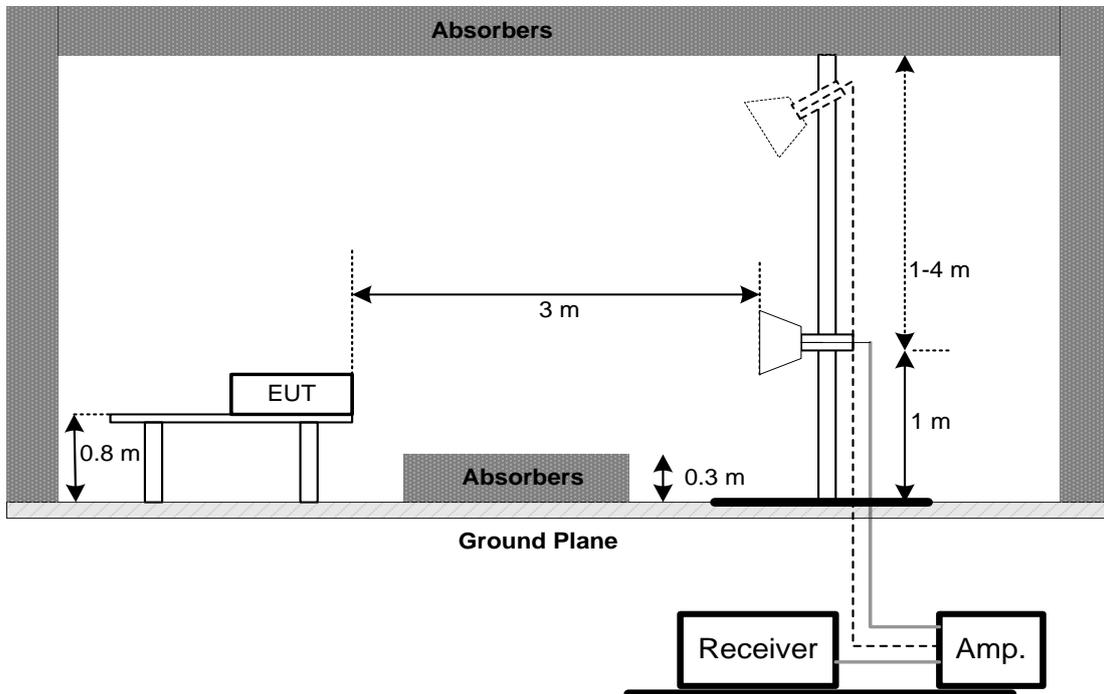
No deviation

4.2.5 TEST SETUP

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



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

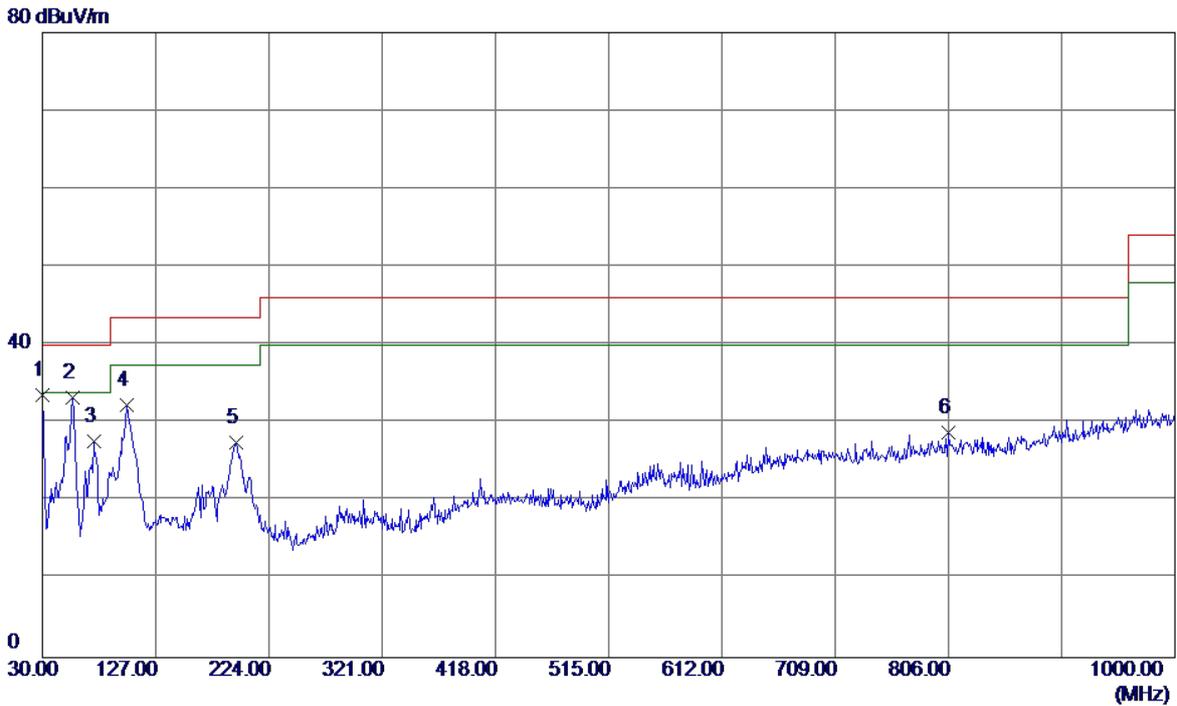


4.2.6 TEST RESULTS-BELOW 1GHZ

Remark :

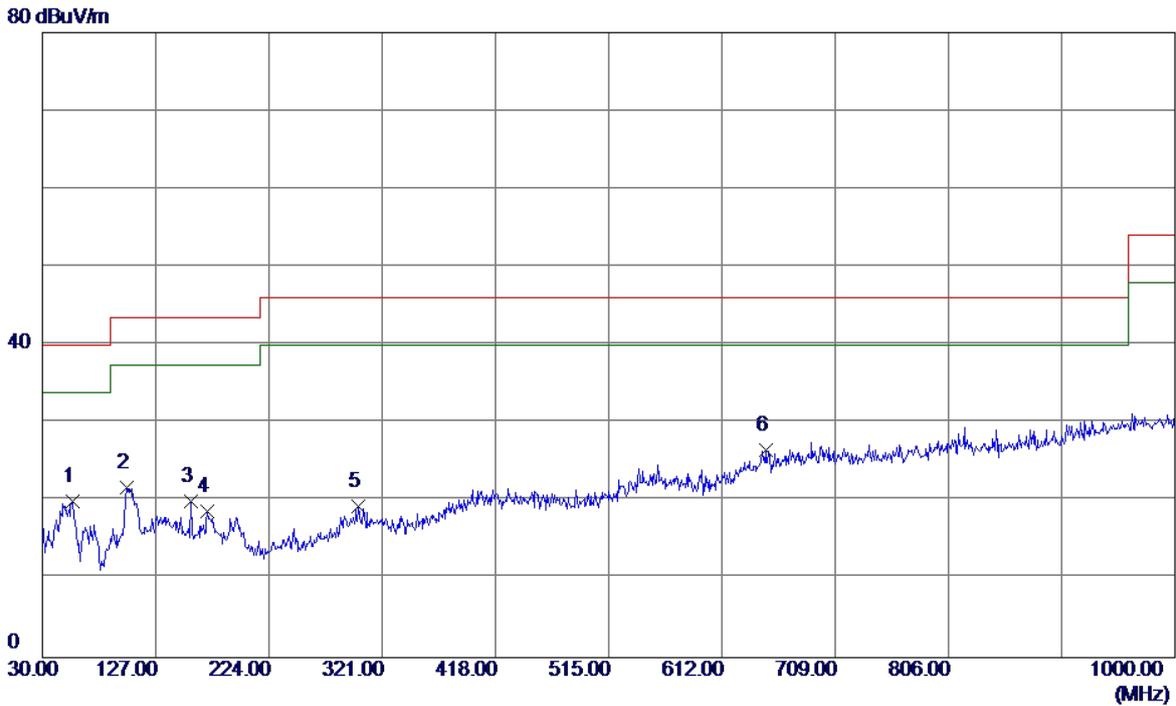
- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (2) Measuring frequency range from 30MHz to 1000MHz ◦
- (3) If the peak scan value lower limit more than 20dB,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



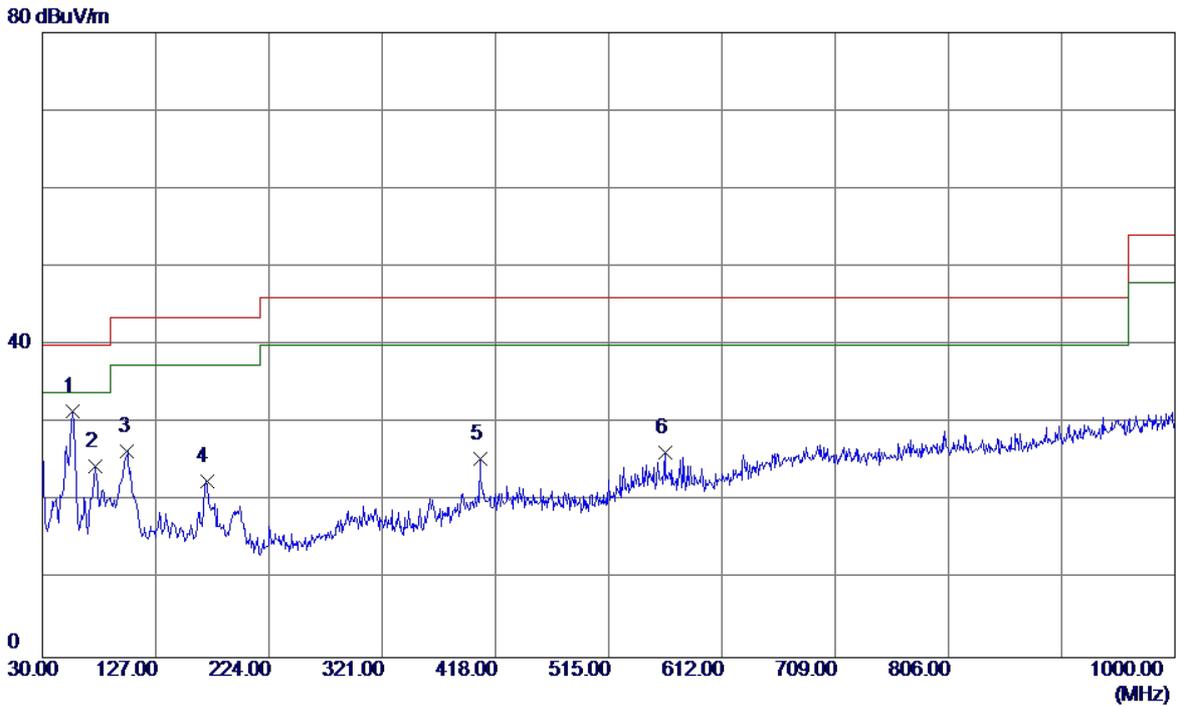
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1 *	30.0000	46.33	-12.80	33.53	40.00	-6.47	QP
2	56.1900	45.94	-12.60	33.34	40.00	-6.66	QP
3	74.1350	43.63	-16.02	27.61	40.00	-12.39	QP
4	102.2650	46.76	-14.38	32.38	43.50	-11.12	QP
5	195.8700	40.94	-13.46	27.48	43.50	-16.02	QP
6	806.4850	28.22	0.61	28.83	46.00	-17.17	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	Adapter: PHITEK		
Test Engineer	Kevin Li		



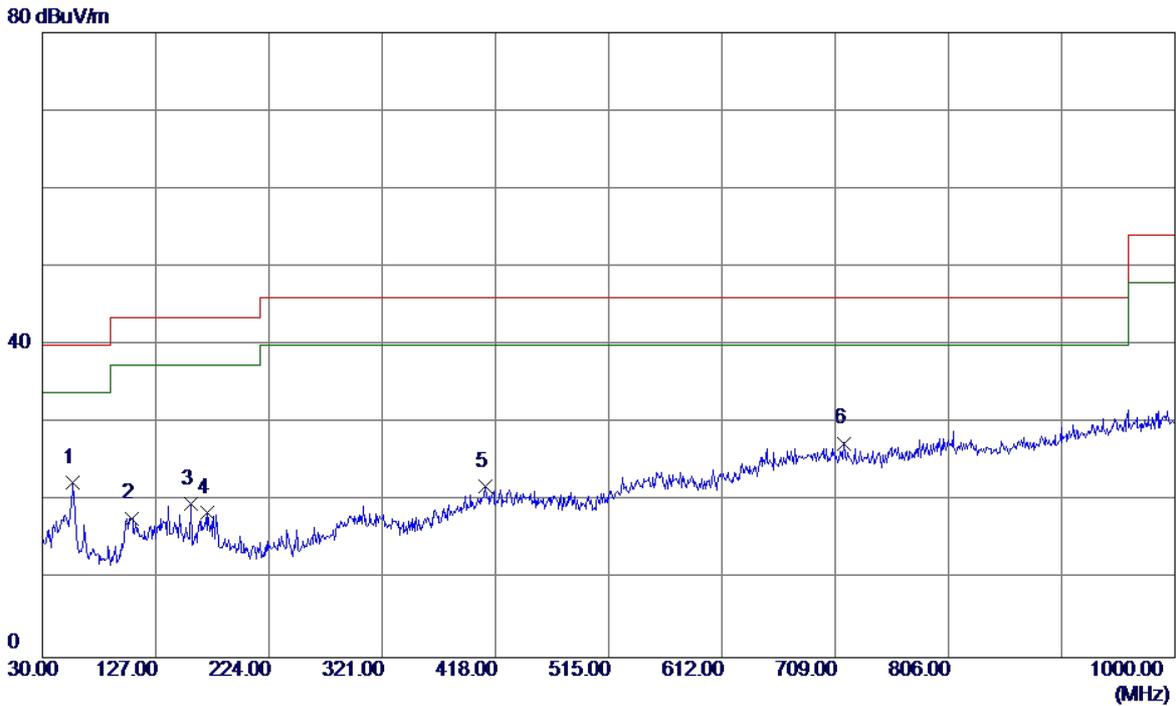
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1	56.1900	32.61	-12.60	20.01	40.00	-19.99	QP
2	102.2650	36.19	-14.38	21.81	43.50	-21.69	QP
3	157.5549	32.45	-12.40	20.05	43.50	-23.45	QP
4	171.6200	29.66	-10.94	18.72	43.50	-24.78	QP
5	300.6300	29.33	-9.95	19.38	46.00	-26.62	QP
6 *	649.3449	28.35	-1.73	26.62	46.00	-19.38	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	Adapter: HUNTKEY		
Test Engineer	Kevin Li		



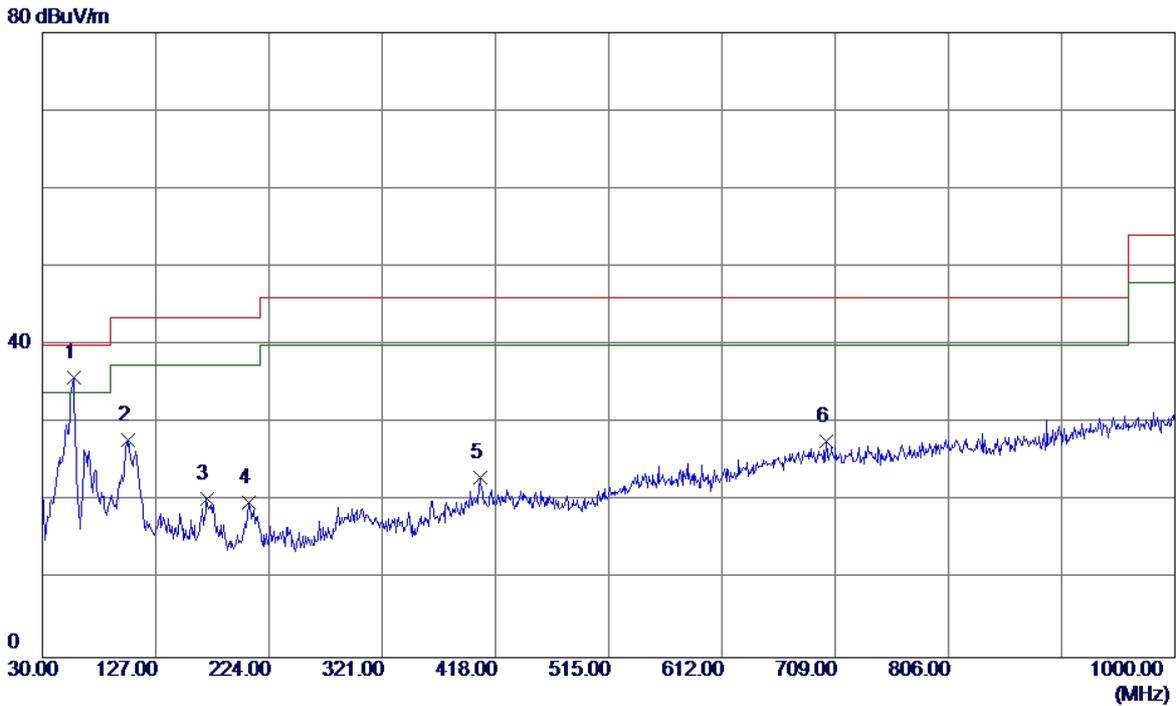
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1 *	56.1900	44.07	-12.60	31.47	40.00	-8.53	QP
2	75.1050	40.67	-16.20	24.47	40.00	-15.53	QP
3	102.7500	40.76	-14.35	26.41	43.50	-17.09	QP
4	170.6500	33.36	-10.80	22.56	43.50	-20.94	QP
5	404.9050	32.63	-7.19	25.44	46.00	-20.56	QP
6	563.0150	30.81	-4.54	26.27	46.00	-19.73	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	Adapter: HUNTKEY		
Test Engineer	Kevin Li		



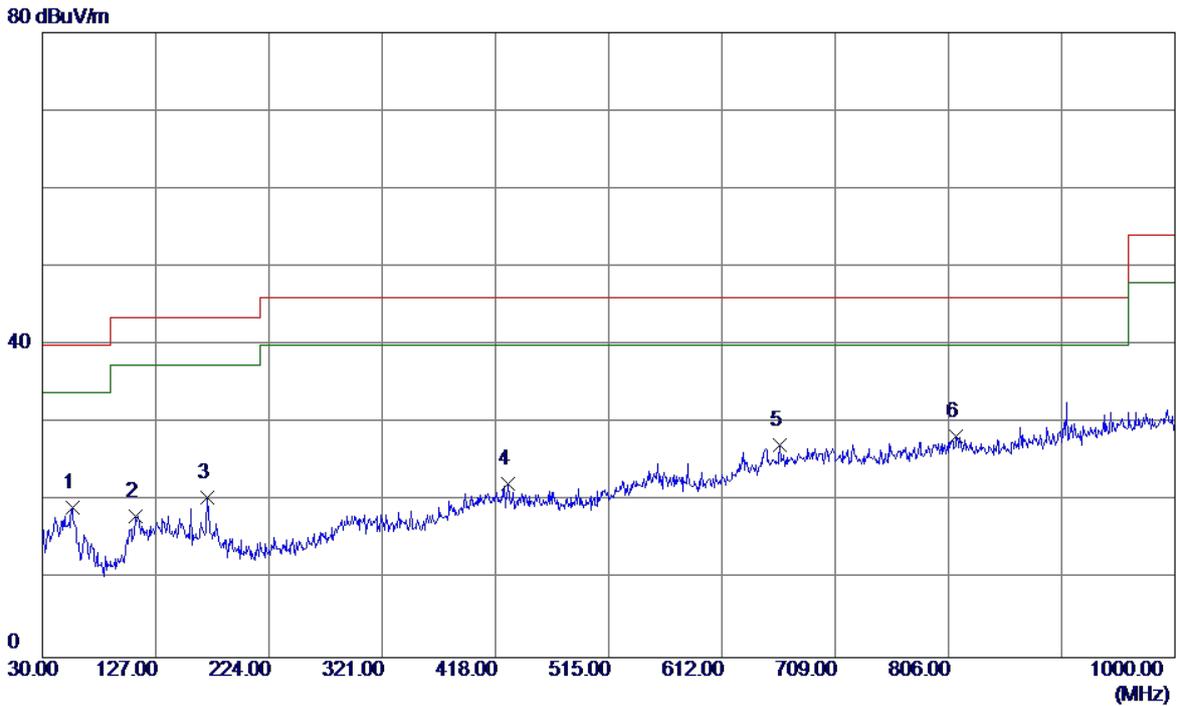
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector
1 *	56.1900	35.04	-12.60	22.44	40.00	-17.56	QP
2	106.1450	31.96	-14.12	17.84	43.50	-25.66	QP
3	157.5549	32.10	-12.40	19.70	43.50	-23.80	QP
4	171.6200	29.54	-10.94	18.60	43.50	-24.90	QP
5	409.2700	29.04	-7.18	21.86	46.00	-24.14	QP
6	716.7600	28.16	-0.72	27.44	46.00	-18.56	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	Adapter: BYD		
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 *	56.6750	48.44	-12.62	35.82	40.00	-4.18	QP
2	103.7200	42.19	-14.28	27.91	43.50	-15.59	QP
3	170.6500	31.12	-10.80	20.32	43.50	-23.18	QP
4	206.5399	33.80	-13.94	19.86	43.50	-23.64	QP
5	404.9050	30.24	-7.19	23.05	46.00	-22.95	QP
6	701.2400	28.32	-0.66	27.66	46.00	-18.34	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	Adapter: BYD		
Test Engineer	Kevin Li		



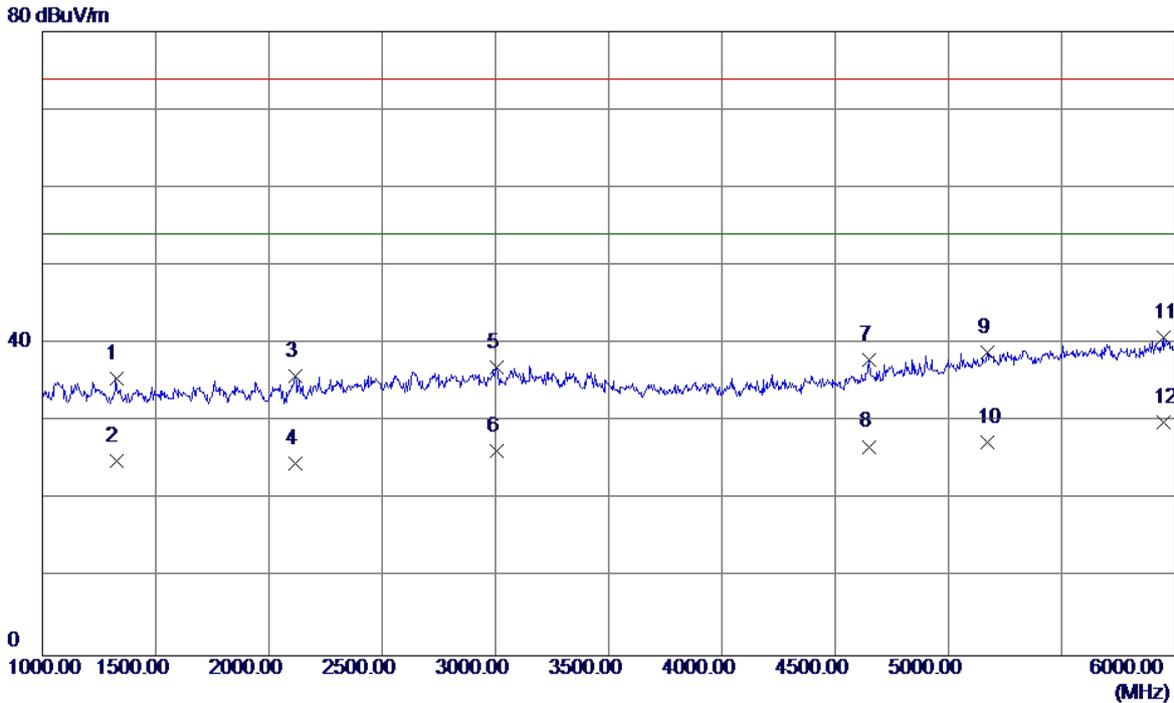
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1	55.7050	31.72	-12.54	19.18	40.00	-20.82	QP
2	110.0250	31.96	-13.86	18.10	43.50	-25.40	QP
3	171.6200	31.37	-10.94	20.43	43.50	-23.07	QP
4	429.1550	29.41	-7.13	22.28	46.00	-23.72	QP
5	661.9550	28.58	-1.44	27.14	46.00	-18.86	QP
6 *	812.7900	27.67	0.61	28.28	46.00	-17.72	QP

4.2.7 TEST RESULTS-ABOVE 1GHZ

Remark :

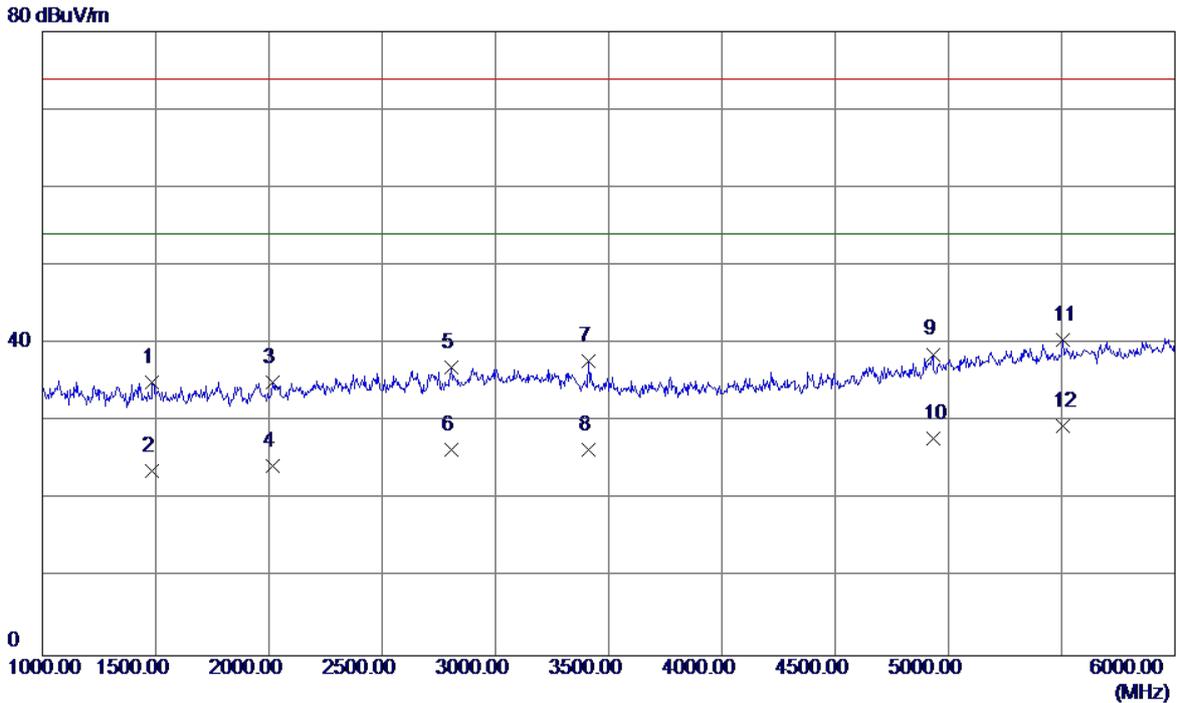
- (1) All readings are Peak unless otherwise stated QP in column of 『Note 』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector 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	Adapter: PHITEK		
Test Engineer	Kevin Li		



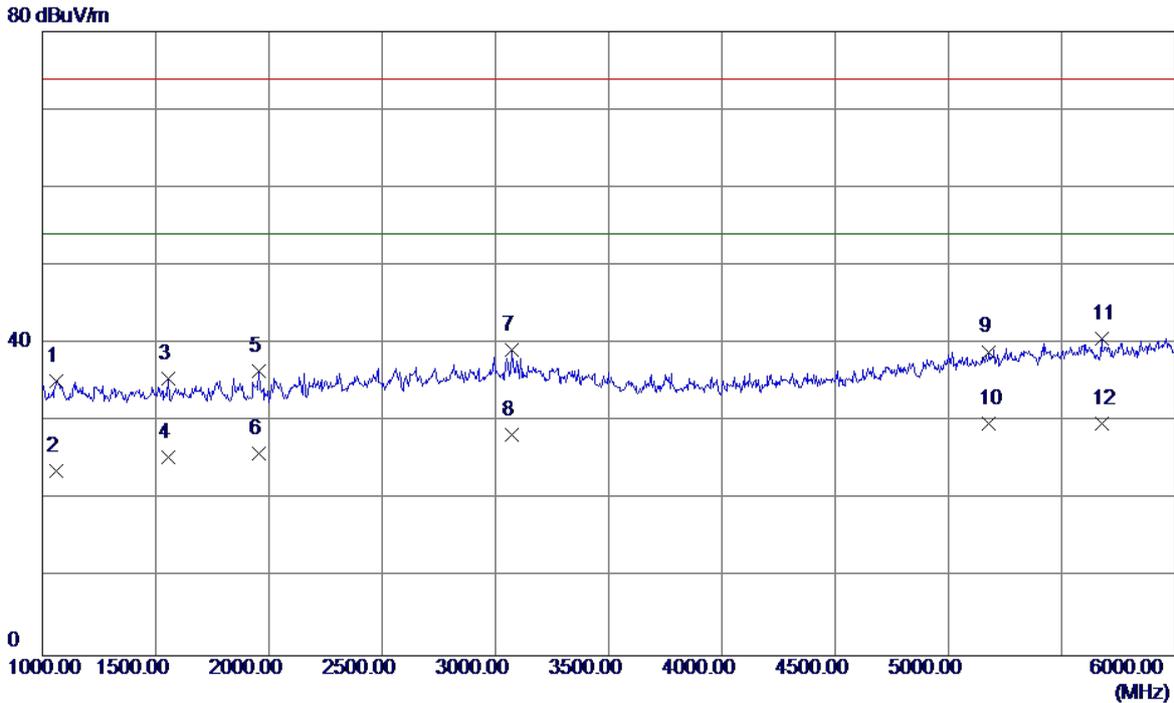
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector
1	1325.0000	41.05	-5.57	35.48	74.00	-38.52	Peak
2	1325.0000	30.52	-5.57	24.95	54.00	-29.05	AVG
3	2115.0000	37.76	-1.94	35.82	74.00	-38.18	Peak
4	2115.0000	26.53	-1.94	24.59	54.00	-29.41	AVG
5	3007.5000	34.55	2.40	36.95	74.00	-37.05	Peak
6	3007.5000	23.88	2.40	26.28	54.00	-27.72	AVG
7	4652.5000	33.30	4.62	37.92	74.00	-36.08	Peak
8	4652.5000	22.18	4.62	26.80	54.00	-27.20	AVG
9	5172.5000	31.97	6.90	38.87	74.00	-35.13	Peak
10	5172.5000	20.53	6.90	27.43	54.00	-26.57	AVG
11	5947.5000	32.34	8.41	40.75	74.00	-33.25	Peak
12 *	5947.5000	21.58	8.41	29.99	54.00	-24.01	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	Adapter: PHITEK		
Test Engineer	Kevin Li		



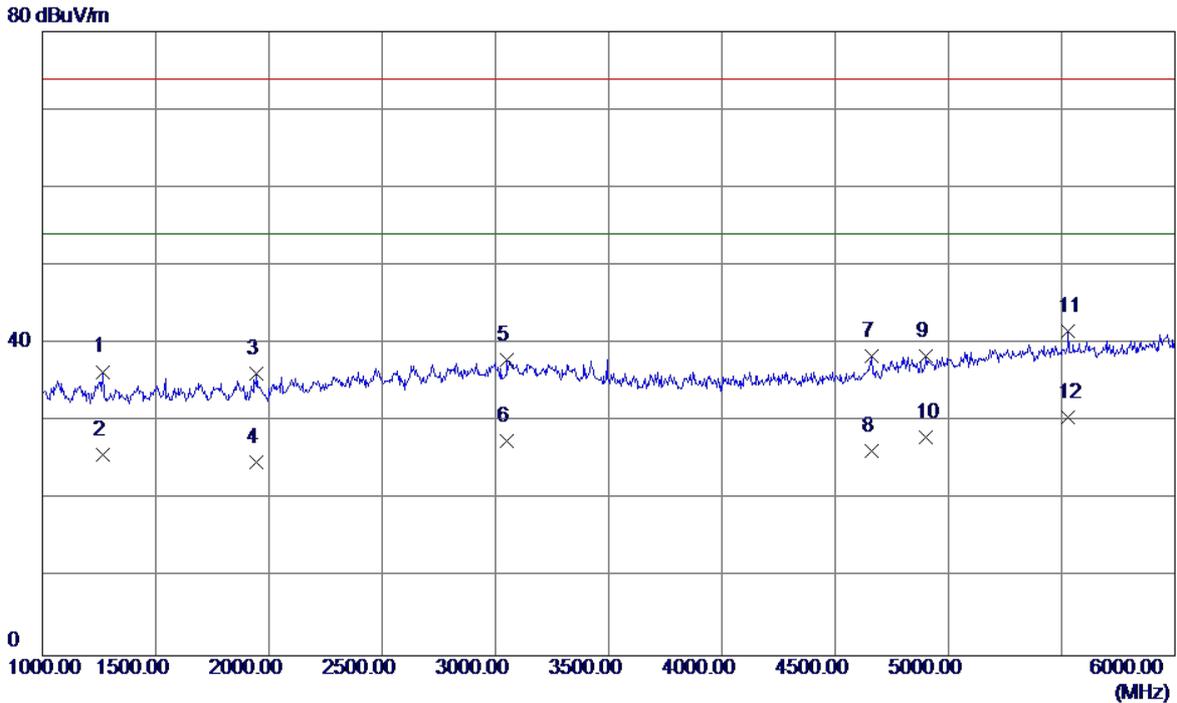
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector
1	1485.0000	39.98	-5.00	34.98	74.00	-39.02	Peak
2	1485.0000	28.62	-5.00	23.62	54.00	-30.38	AVG
3	2017.5000	37.46	-2.47	34.99	74.00	-39.01	Peak
4	2017.5000	26.82	-2.47	24.35	54.00	-29.65	AVG
5	2807.5000	35.43	1.54	36.97	74.00	-37.03	Peak
6	2807.5000	24.81	1.54	26.35	54.00	-27.65	AVG
7	3410.0000	35.49	2.28	37.77	74.00	-36.23	Peak
8	3410.0000	24.14	2.28	26.42	54.00	-27.58	AVG
9	4932.5000	32.66	5.98	38.64	74.00	-35.36	Peak
10	4932.5000	21.82	5.98	27.80	54.00	-26.20	AVG
11	5507.5000	32.44	8.02	40.46	74.00	-33.54	Peak
12 *	5507.5000	21.37	8.02	29.39	54.00	-24.61	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	Adapter: HUNTKEY		
Test Engineer	Kevin Li		



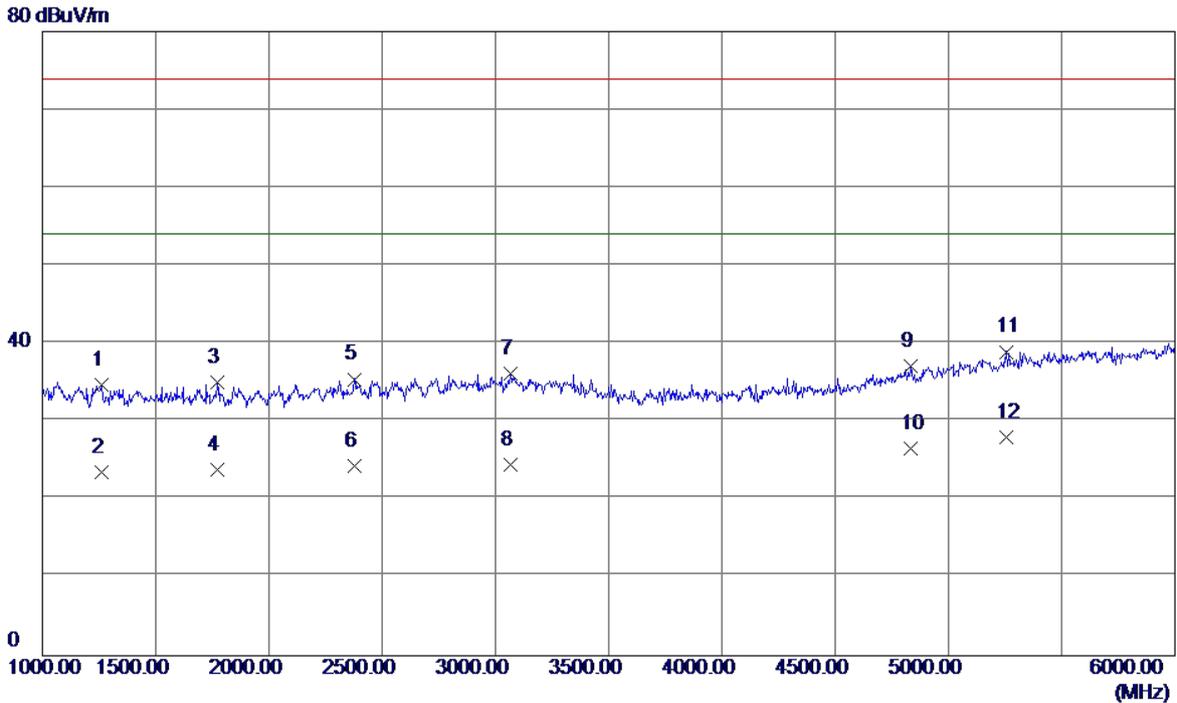
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1	1060.0000	41.67	-6.52	35.15	74.00	-38.85	Peak
2	1060.0000	30.17	-6.52	23.65	54.00	-30.35	AVG
3	1555.0000	40.14	-4.69	35.45	74.00	-38.55	Peak
4	1555.0000	30.19	-4.69	25.50	54.00	-28.50	AVG
5	1955.0000	39.28	-2.78	36.50	74.00	-37.50	Peak
6	1955.0000	28.64	-2.78	25.86	54.00	-28.14	AVG
7	3070.0000	36.80	2.38	39.18	74.00	-34.82	Peak
8	3070.0000	25.87	2.38	28.25	54.00	-25.75	AVG
9	5180.0000	32.04	6.92	38.96	74.00	-35.04	Peak
10 *	5180.0000	22.85	6.92	29.77	54.00	-24.23	AVG
11	5677.5000	32.48	8.17	40.65	74.00	-33.35	Peak
12	5677.5000	21.58	8.17	29.75	54.00	-24.25	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	Adapter: HUNTKEY		
Test Engineer	Kevin Li		



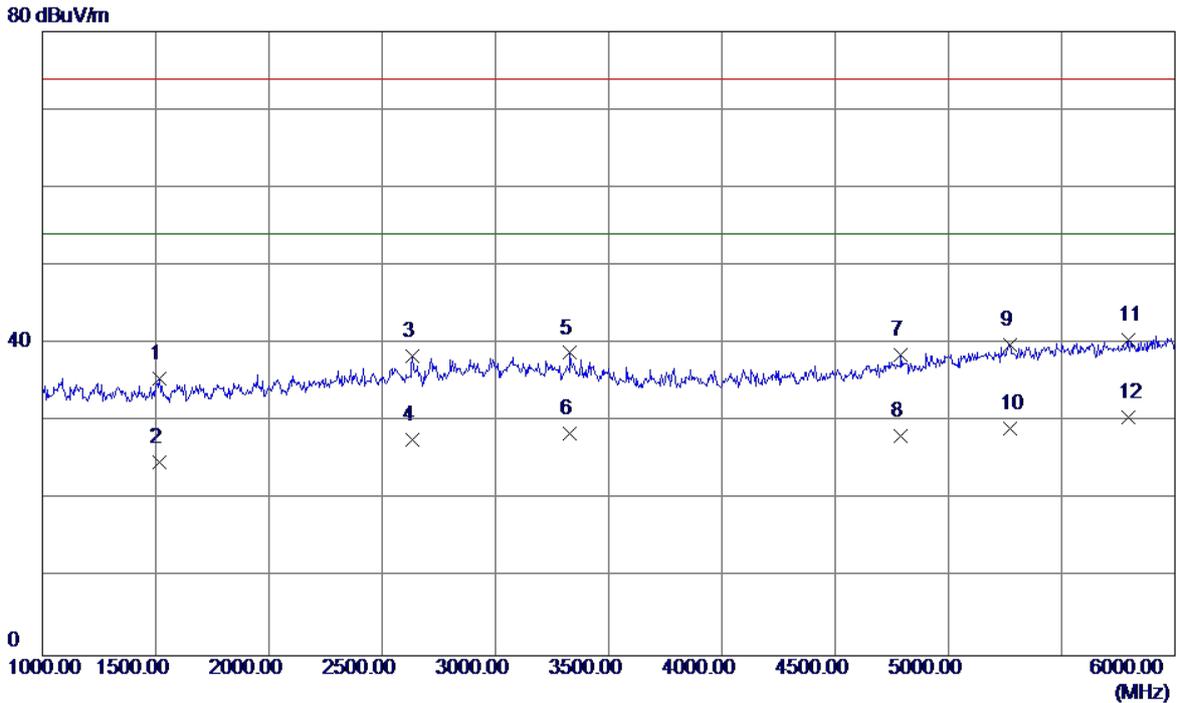
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1	1267.5000	42.18	-5.78	36.40	74.00	-37.60	Peak
2	1267.5000	31.54	-5.78	25.76	54.00	-28.24	AVG
3	1945.0000	38.96	-2.83	36.13	74.00	-37.87	Peak
4	1945.0000	27.65	-2.83	24.82	54.00	-29.18	AVG
5	3050.0000	35.50	2.39	37.89	74.00	-36.11	Peak
6	3050.0000	25.17	2.39	27.56	54.00	-26.44	AVG
7	4660.0000	33.72	4.66	38.38	74.00	-35.62	Peak
8	4660.0000	21.57	4.66	26.23	54.00	-27.77	AVG
9	4902.5000	32.62	5.84	38.46	74.00	-35.54	Peak
10	4902.5000	22.18	5.84	28.02	54.00	-25.98	AVG
11	5530.0000	33.61	8.04	41.65	74.00	-32.35	Peak
12 *	5530.0000	22.48	8.04	30.52	54.00	-23.48	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	Adapter: BYD		
Test Engineer	Kevin Li		



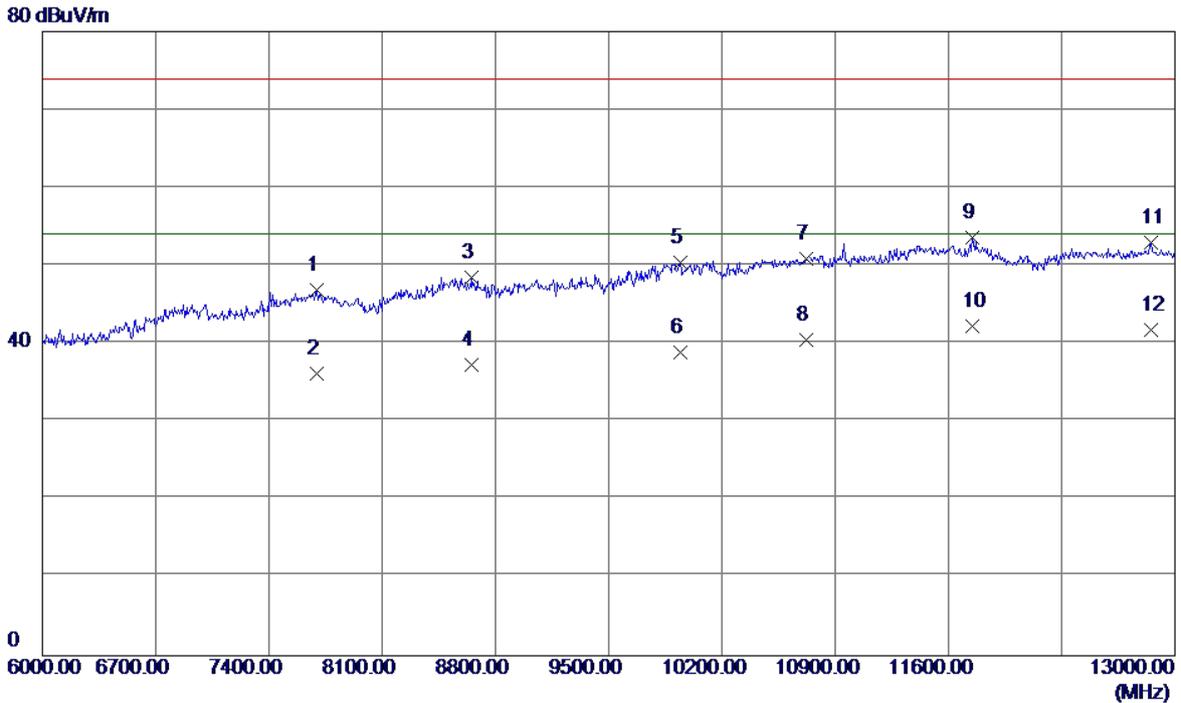
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1	1260.0000	40.56	-5.80	34.76	74.00	-39.24	Peak
2	1260.0000	29.38	-5.80	23.58	54.00	-30.42	AVG
3	1770.0000	38.76	-3.66	35.10	74.00	-38.90	Peak
4	1770.0000	27.54	-3.66	23.88	54.00	-30.12	AVG
5	2377.5000	35.94	-0.50	35.44	74.00	-38.56	Peak
6	2377.5000	24.82	-0.50	24.32	54.00	-29.68	AVG
7	3067.5000	33.74	2.38	36.12	74.00	-37.88	Peak
8	3067.5000	22.16	2.38	24.54	54.00	-29.46	AVG
9	4835.0000	31.66	5.51	37.17	74.00	-36.83	Peak
10	4835.0000	21.05	5.51	26.56	54.00	-27.44	AVG
11	5257.5000	31.77	7.19	38.96	74.00	-35.04	Peak
12 *	5257.5000	20.87	7.19	28.06	54.00	-25.94	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	Adapter: BYD		
Test Engineer	Kevin Li		



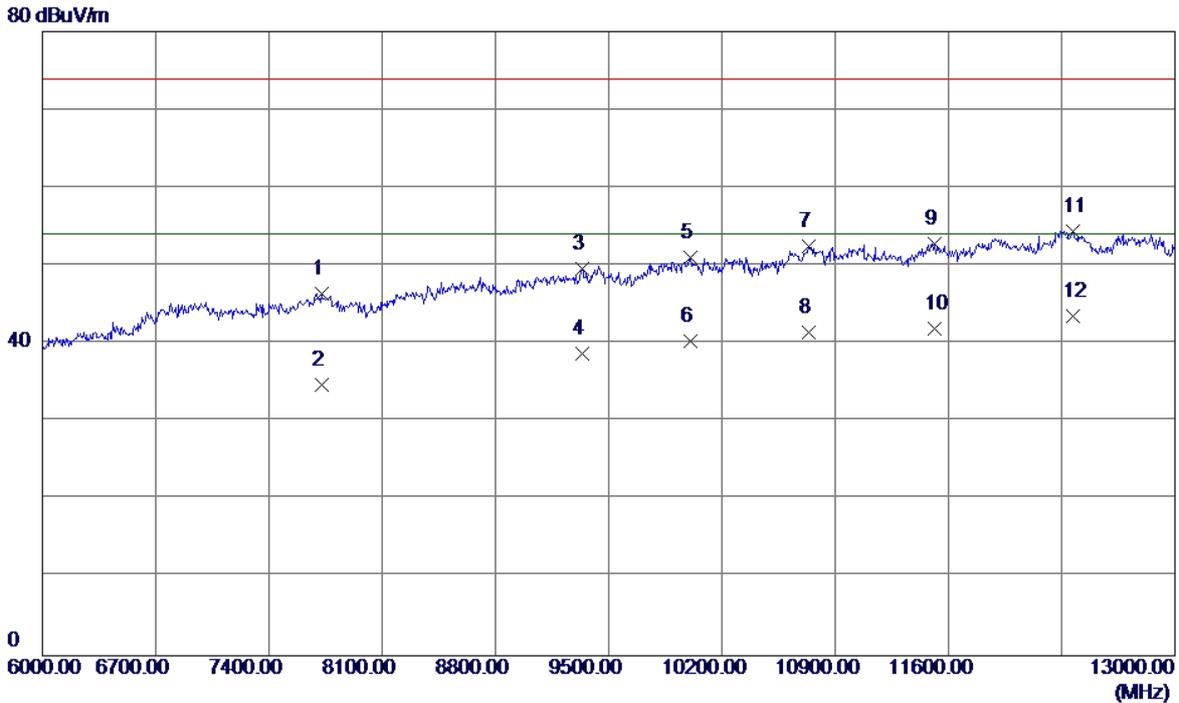
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1	1515.0000	40.45	-4.88	35.57	74.00	-38.43	Peak
2	1515.0000	29.61	-4.88	24.73	54.00	-29.27	AVG
3	2635.0000	37.63	0.77	38.40	74.00	-35.60	Peak
4	2635.0000	26.86	0.77	27.63	54.00	-26.37	AVG
5	3330.0000	36.50	2.30	38.80	74.00	-35.20	Peak
6	3330.0000	26.19	2.30	28.49	54.00	-25.51	AVG
7	4790.0000	33.30	5.29	38.59	74.00	-35.41	Peak
8	4790.0000	22.81	5.29	28.10	54.00	-25.90	AVG
9	5270.0000	32.59	7.23	39.82	74.00	-34.18	Peak
10	5270.0000	21.85	7.23	29.08	54.00	-24.92	AVG
11	5792.5000	32.14	8.27	40.41	74.00	-33.59	Peak
12 *	5792.5000	22.36	8.27	30.63	54.00	-23.37	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	Adapter: BYD		
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	7694.0000	34.32	12.59	46.91	74.00	-27.09	Peak
2	7694.0000	23.60	12.59	36.19	54.00	-17.81	AVG
3	8653.0000	34.78	13.73	48.51	74.00	-25.49	Peak
4	8653.0000	23.51	13.73	37.24	54.00	-16.76	AVG
5	9944.5000	34.93	15.45	50.38	74.00	-23.62	Peak
6	9944.5000	23.47	15.45	38.92	54.00	-15.08	AVG
7	10721.5000	34.00	16.90	50.90	74.00	-23.10	Peak
8	10721.5000	23.53	16.90	40.43	54.00	-13.57	AVG
9	11747.0000	35.95	17.71	53.66	74.00	-20.34	Peak
10 *	11747.0000	24.51	17.71	42.22	54.00	-11.78	AVG
11	12849.5000	34.35	18.59	52.94	74.00	-21.06	Peak
12	12849.5000	23.21	18.59	41.80	54.00	-12.20	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	Adapter: BYD		
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	7725.5000	33.86	12.58	46.44	74.00	-27.56	Peak
2	7725.5000	22.16	12.58	34.74	54.00	-19.26	AVG
3	9335.5000	35.02	14.53	49.55	74.00	-24.45	Peak
4	9335.5000	24.15	14.53	38.68	54.00	-15.32	AVG
5	10007.5000	35.46	15.58	51.04	74.00	-22.96	Peak
6	10007.5000	24.67	15.58	40.25	54.00	-13.75	AVG
7	10735.5000	35.57	16.91	52.48	74.00	-21.52	Peak
8	10735.5000	24.60	16.91	41.51	54.00	-12.49	AVG
9	11512.5000	34.96	17.90	52.86	74.00	-21.14	Peak
10	11512.5000	23.95	17.90	41.85	54.00	-12.15	AVG
11	12370.0000	36.48	17.94	54.42	74.00	-19.58	Peak
12 *	12370.0000	25.61	17.94	43.55	54.00	-10.45	AVG