# **FCC RF Test Report**

Report No.: FR0O2703-06F

Cert #5145.01

APPLICANT : OnePlus Technology (Shenzhen) Co., Ltd.

EQUIPMENT : Smart Phone
BRAND NAME : ONEPLUS
MODEL NAME : LE2125

FCC ID : 2ABZ2-EF14A

STANDARD : FCC Part 15 Subpart C §15.209

CLASSIFICATION : (DCD) Part 15 Low Power Transmitter

Below 1705 kHz

The product was received on Oct. 27, 2020 and testing was completed on Mar. 01, 2021. We, Sporton International (ShenZhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (ShenZhen) Inc., the test report shall not be reproduced except in full.

Reviewed by: Derreck Chen / Supervisor

Fire Shih

Donale Chen

Approved by: Eric Shih / Manager

### Sporton International (ShenZhen) Inc.

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

 TEL: 86-755-8637-9589
 Page Number
 : 1 of 28

 FAX: 86-755-8637-9595
 Issued Date
 : Mar. 02, 2021

 FCC ID: 2ABZ2-EF14A
 Report Version
 : 02

### **Table of Contents**

His	tory o	f this test report	3
Sui	nmary	r of Test Result	4
1	Gene	ral Description	5
	1.1	Applicant	5
	1.2	Manufacturer	5
	1.3	Product Feature of Equipment Under Test	5
	1.4	Product Specification of Equipment Under Test	3
	1.5	Modification of EUT	3
	1.6	Test Location	3
	1.7	Test Software	3
	1.8	Applied Standards	7
2	Test (	Configuration of Equipment Under Test	3
	2.1	Test Mode	3
	2.2	Connection Diagram of Test System	3
	2.3	Support Unit used in test configuration and system	9
3	Test F	Result1	)
	3.1	20dB and 99% Occupied Bandwidth Measurement10	C
	3.2	Radiated Emission Measurement	2
	3.3	AC Conducted Emission Measurement	2
	3.4	Antenna Requirements	3
4	List o	f Measuring Equipment2	7
5	Unce	rtainty of Evaluation2	3
Ap	pendix	A. Setup Photographs	

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2ABZ2-EF14A

Report Template No.: BU5-FR15CWPC Version 2.4

Page Number

: 2 of 28

Issued Date

: Mar. 02, 2021

Report Version

: 02

Report No.: FR0O2703-06F

## History of this test report

Report No.: FR0O2703-06F

Report No.	Version	Description	Issued Date
FR0O2703-06F	01	Initial issue of report	Feb. 05, 2021
FR0O2703-06F	02	Retest RSE for WPT carrier frequency	Mar. 02, 2021

 TEL: 86-755-8637-9589
 Page Number
 : 3 of 28

 FAX: 86-755-8637-9595
 Issued Date
 : Mar. 02, 2021

 FCC ID: 2ABZ2-EF14A
 Report Version
 : 02

### **Summary of Test Result**

Report No.: FR0O2703-06F

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	2.1049	20dB Bandwidth	Reporting Only	-
3.1	2.1049	99% Occupied Bandwidth	Reporting Only	
3.2	15.209	Radiated Emission	Pass	Under limit 14.70 dB at 870.020 MHz
3.3	15.207	AC Conducted Emission	Pass	Under limit 16.29 dB at 2.320 MHz
3.4	15.203	Antenna Requirements	Pass	-

#### **Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

#### **Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

 TEL: 86-755-8637-9589
 Page Number
 : 4 of 28

 FAX: 86-755-8637-9595
 Issued Date
 : Mar. 02, 2021

 FCC ID: 2ABZ2-EF14A
 Report Version
 : 02

### 1 General Description

### 1.1 Applicant

#### OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen

Report No.: FR0O2703-06F

#### 1.2 Manufacturer

#### OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen

### 1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment	Smart Phone			
Brand Name	ONEPLUS			
Model Name	LE2125			
FCC ID	2ABZ2-EF14A			
	CDMA/GSM/WCDMA/LTE/5G NR			
	WLAN 2.4GHz 802.11b/g/n HT20/HT40			
	WLAN 2.4GHz 802.11ac/ax VHT20/VHT40/HE20/HE40			
FUT assessments Dadies appellantion	WLAN 5GHz 802.11a/n HT20/HT40			
EUT supports Radios application	WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160			
	WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160			
	Bluetooth BR / EDR / LE / ANT+			
	GNSS/NFC/WPT			
	Conducted: N/A			
IMEI Code	Conduction: 990016750028217			
	Radiation: 990016750028241			
HW Version	22			
SW Version	11.2.0.0.LE5ACB			
EUT Stage	Production Unit			

#### Remark:

- The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- This is a variant report, the change note could be referred to the product equality declaration which
  is exhibit separately. The change has no influence on the test results, all the test results are
  leveraged from original report FR0O2703-02F

TEL: 86-755-8637-9589 Page Number : 5 of 28 FAX: 86-755-8637-9595 Issued Date : Mar. 02, 2021

FCC ID: 2ABZ2-EF14A Report Version : 02

### 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification		
Frequency Range	110 ~ 148.5kHz	
Type of Modulation	ASK	
Antenna Type	Loop Antenna	

Report No.: FR0O2703-06F

#### 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

#### 1.6 Test Location

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Shenzhen) Inc.					
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595					
	Sporton Site No.	FCC Designation No.	FCC Test Firm			
Test Site No.			Registration No.			
	CO01-SZ TH01-SZ	CN1256	421272			

Test Firm	Sporton International (Shenzhen) Inc.			
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398			
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.	
	03CH02-SZ	CN1256	421272	

#### 1.7 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a
2.	CO01-SZ	AUDIX	E3	6.120613b

TEL: 86-755-8637-9589 Page Number : 6 of 28
FAX: 86-755-8637-9595 Issued Date : Mar. 02, 2021

FCC ID: 2ABZ2-EF14A Report Version : 02

### 1.8 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

Report No.: FR0O2703-06F

- FCC Part 15 Subpart C §15.209, §15.207
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- ANSI C63.10-2013

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

 TEL: 86-755-8637-9589
 Page Number
 : 7 of 28

 FAX: 86-755-8637-9595
 Issued Date
 : Mar. 02, 2021

 FCC ID: 2ABZ2-EF14A
 Report Version
 : 02

### 2 Test Configuration of Equipment Under Test

#### 2.1 Test Mode

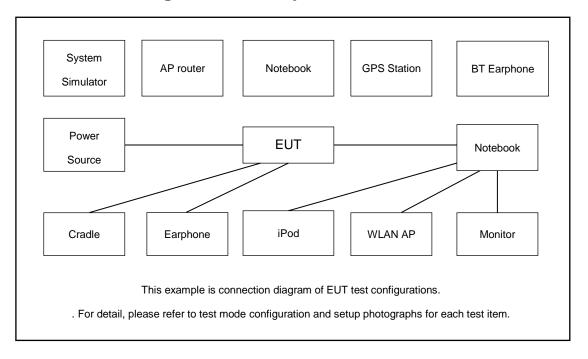
a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 1000 MHz).

Report No.: FR0O2703-06F

b. AC power line Conducted Emission was tested under maximum output power.

Test Items	Function Type	
AC Conducted Emission	Mode 1: Bluetooth Idle + WLAN Idle (5G) + Camera(Front) + Battery + Charging from wireless charger	
	Mode 1: WPT(Qi) Charger (charged DUT Battery 20%)	
Radiated	Mode 2: WPT(Qi) Charger (charged DUT Battery 50%)	
Emission	Mode 3: WPT(Qi) Charger (charged DUT Battery 90%)	
	Mode 4: WPT(Qi) Charger (Battery 90%)(Charged DUT off status)	
Remark: The worst case of radiated emission is mode 4; only the test data of it was reported.		

### 2.2 Connection Diagram of Test System



 TEL: 86-755-8637-9589
 Page Number
 : 8 of 28

 FAX: 86-755-8637-9595
 Issued Date
 : Mar. 02, 2021

 FCC ID: 2ABZ2-EF14A
 Report Version
 : 02

## 2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Samsung	EO-MG900	PYAHS-107W	N/A	N/A
2.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded, 1.8m
3.	Smart Phone (WPT Load)	oneplus	N/A	N/A	N/A	N/A

Report No.: FR0O2703-06F

 TEL: 86-755-8637-9589
 Page Number
 : 9 of 28

 FAX: 86-755-8637-9595
 Issued Date
 : Mar. 02, 2021

 FCC ID: 2ABZ2-EF14A
 Report Version
 : 02

#### 3 Test Result

### 3.1 20dB and 99% Occupied Bandwidth Measurement

#### 3.1.1 Limit of 20dB and 99% Occupied Bandwidth

Reporting only

#### 3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

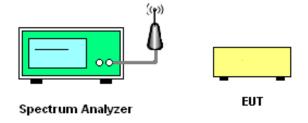
#### 3.1.3 Test Procedures

1. The 20dB bandwidth is measured with a spectrum analyzer connected via a receiver antenna placed near the EUT while wirelessly charging a charging board.

Report No.: FR0O2703-06F

- Use the following spectrum analyzer settings for 99 % Bandwidth measurement.
   For Bandwidth measurement, the RBW is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 \* RBW, Sweep = auto;
- 3. Measure and record the results in the test report.

#### 3.1.4 Test Setup



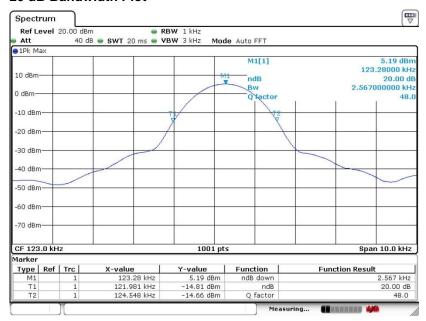
 TEL: 86-755-8637-9589
 Page Number
 : 10 of 28

 FAX: 86-755-8637-9595
 Issued Date
 : Mar. 02, 2021

 FCC ID: 2ABZ2-EF14A
 Report Version
 : 02

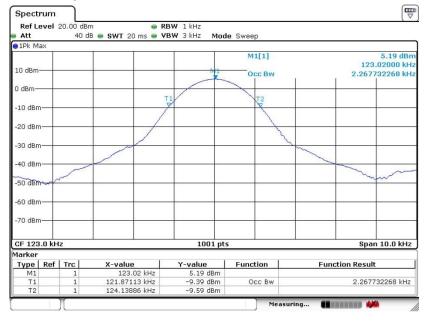
#### 3.1.5 Test Result of 20dB and 99% Bandwidth

#### 20 dB Bandwidth Plot



Report No.: FR0O2703-06F

#### 99% Occupied Bandwidth Plot



 TEL: 86-755-8637-9589
 Page Number
 : 11 of 28

 FAX: 86-755-8637-9595
 Issued Date
 : Mar. 02, 2021

 FCC ID: 2ABZ2-EF14A
 Report Version
 : 02

#### 3.2 Radiated Emission Measurement

#### 3.2.1 Limit of Radiated Emission

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Report No.: FR0O2703-06F

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Receiver Parameter	Setting
Frequency Range: 9kHz~150kHz	RBW 200Hz for QP
Frequency Range: 150kHz~30MHz	RBW 9kHz for QP
Frequency Range: 30MHz~1000MHz	RBW 120kHz for Peak

**Note:** The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For radiated emissions from 9kHz to 1GHz test distance is 3m

For 9kHz ~ 30MHz

- 1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
- 3. specific line  $(dB\mu V/m) = 20 \log Emission level (\mu V/m)$
- 4. Limit line = specific limits  $(dB\mu V/m)$  + distance extrapolation factor.

#### 3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

 TEL: 86-755-8637-9589
 Page Number
 : 12 of 28

 FAX: 86-755-8637-9595
 Issued Date
 : Mar. 02, 2021

 FCC ID: 2ABZ2-EF14A
 Report Version
 : 02

FCC ID: 2ABZ2-EF14A Report Version
Report Template No.: BU5-FR15CWPC Version 2.4

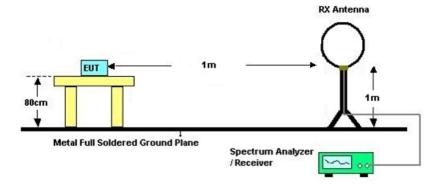
#### 3.2.3 Measuring Instrument Setting

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission for three EUT orthogonal planes, and adjusting the measurement antenna height and polarization. A pre-amp and a high pass filter are used for this test in order to get the good signal level.

Report No.: FR0O2703-06F

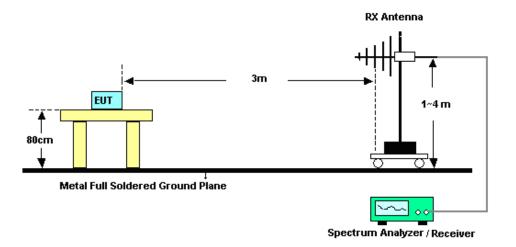
#### 3.2.4 Test Setup of Radiated Emission

#### For radiated emissions below 30MHz



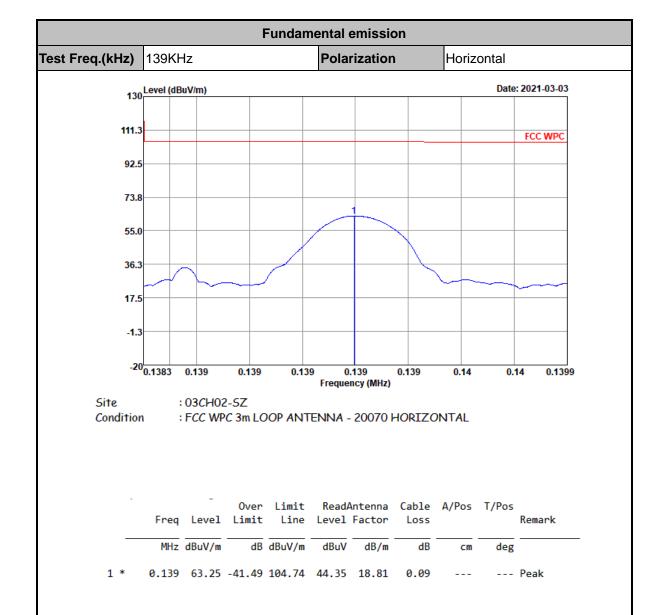
**Note:** There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

#### For radiated emissions above 30MHz



TEL: 86-755-8637-9589 Page Number : 13 of 28
FAX: 86-755-8637-9595 Issued Date : Mar. 02, 2021
FCC ID: 2ABZ2-EF14A Report Version : 02

#### 3.2.5 Test Result of Radiated Emission



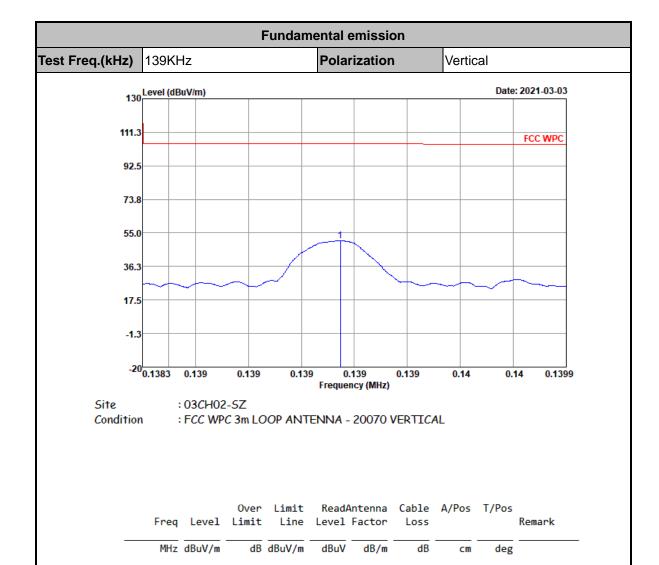
Report No.: FR0O2703-06F

 TEL: 86-755-8637-9589
 Page Number
 : 14 of 28

 FAX: 86-755-8637-9595
 Issued Date
 : Mar. 02, 2021

 FCC ID: 2ABZ2-EF14A
 Report Version
 : 02





0.09

--- Peak

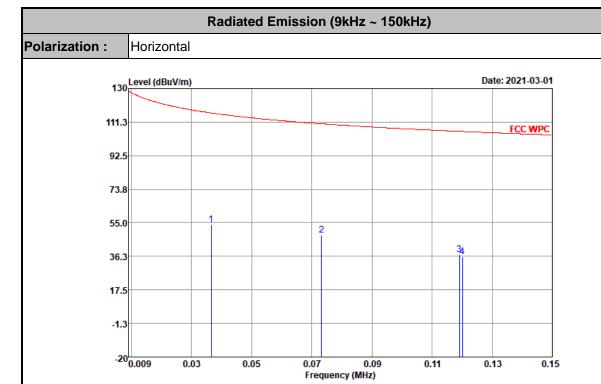
 TEL: 86-755-8637-9589
 Page Number
 : 15 of 28

 FAX: 86-755-8637-9595
 Issued Date
 : Mar. 02, 2021

 FCC ID: 2ABZ2-EF14A
 Report Version
 : 02

0.139 50.57 -54.17 104.74 31.67 18.81





Report No.: FR0O2703-06F

Site : 03CH02-SZ

: FCC WPC 3m LOOP ANTENNA - 20070 HORIZONTAL Condition

Battery	:	90%								
	Freq	Level		Limit Line				A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	0.037	53.92	-62.42	116.34	34.94	18.93	0.05			Average
2	0.073	48.07	-62.24	110.31	29.13	18.87	0.07			Average
3	0.119	37.30	-68.79	106.09	18.40	18.81	0.09			Average
4	0.120	35.99	-70.02	106.01	17.09	18.81	0.09			Average

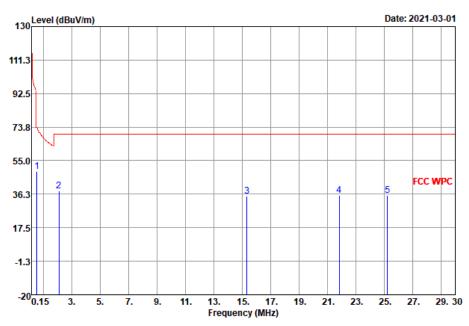
TEL: 86-755-8637-9589 Page Number : 16 of 28 FAX: 86-755-8637-9595 Issued Date : Mar. 02, 2021 : 02

FCC ID: 2ABZ2-EF14A Report Version Report Template No.: BU5-FR15CWPC Version 2.4

CC RF Test Report No.: FR0O2703-06F

### Radiated Emission (150kHz ~ 30MHz)

Polarization: Horizontal



Site : 03CH02-SZ

Condition : FCC WPC 3m LOOP ANTENNA - 20070 HORIZONTAL

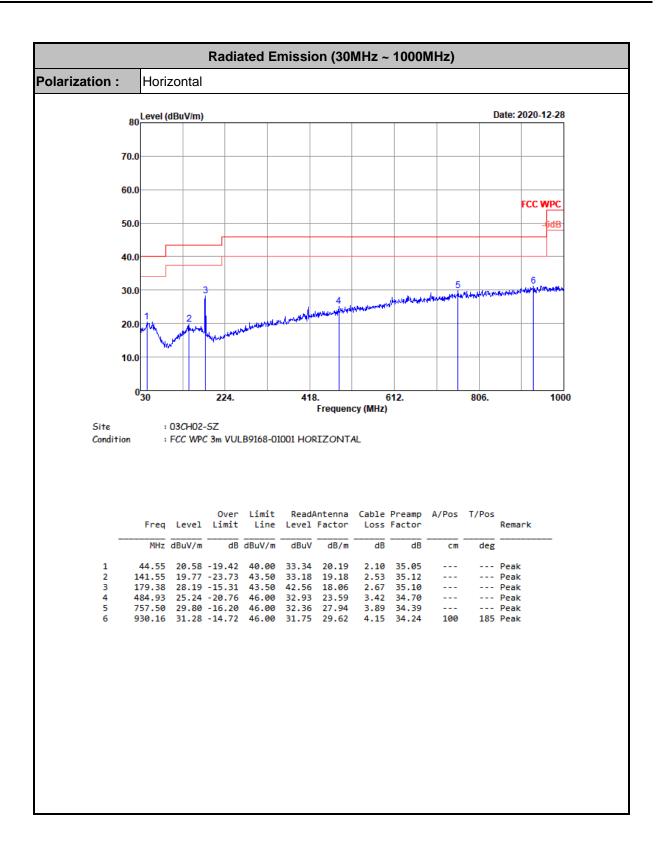
ваттегу	: 90%

	Freq	Level		Limit					1/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	0.544	48.76	-24.13	72.89	29.80	18.76	0.20			QP
2	2.096	38.06	-31.94	70.00	18.93	18.89	0.24			QP
3	15.336	35.07	-34.93	70.00	16.07	18.56	0.44			QP
4	21.823	35.64	-34.36	70.00	16.01	19.09	0.54			QP
5	25.220	35.39	-34.61	70.00	15.65	19.16	0.58			QP

 TEL: 86-755-8637-9589
 Page Number
 : 17 of 28

 FAX: 86-755-8637-9595
 Issued Date
 : Mar. 02, 2021

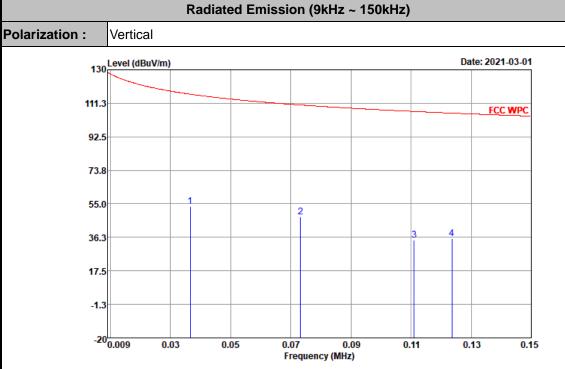
 FCC ID: 2ABZ2-EF14A
 Report Version
 : 02



Report No.: FR0O2703-06F

TEL: 86-755-8637-9589 Page Number : 18 of 28 FAX: 86-755-8637-9595 Issued Date : Mar. 02, 2021 FCC ID: 2ABZ2-EF14A Report Version : 02

CC RF Test Report No.: FR0O2703-06F



Site : 03CH02-SZ

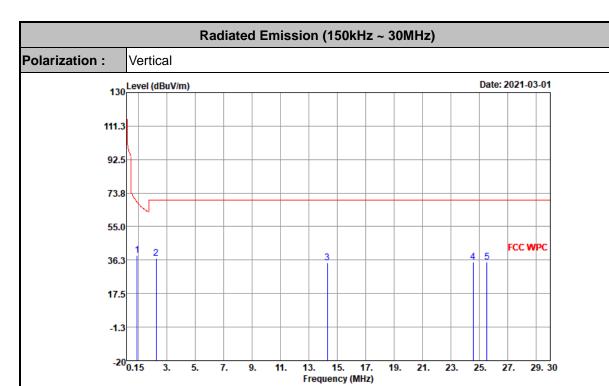
Condition : FCC WPC 3m LOOP ANTENNA - 20070 VERTICAL

Battery	:	90%		-						
	Freq	Level	Over Limit	Limit Line			Cable Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	0.037	53.54	-62.80	116.34	34.56	18.93	0.05			Average
2	0.073	47.86	-62.45	110.31	28.92	18.87	0.07			Average
3	0.111	34.76	-71.93	106.69	15.85	18.83	0.08			Average
4	0.124	35.62	-70.14	105.76	16.72	18.81	0.09			Average

TEL: 86-755-8637-9589 Page Number : 19 of 28
FAX: 86-755-8637-9595 Issued Date : Mar. 02, 2021

FCC ID: 2ABZ2-EF14A Report Version : 02
Report Template No.: BU5-FR15CWPC Version 2.4





Report No.: FR0O2703-06F

Site :03CH02-SZ

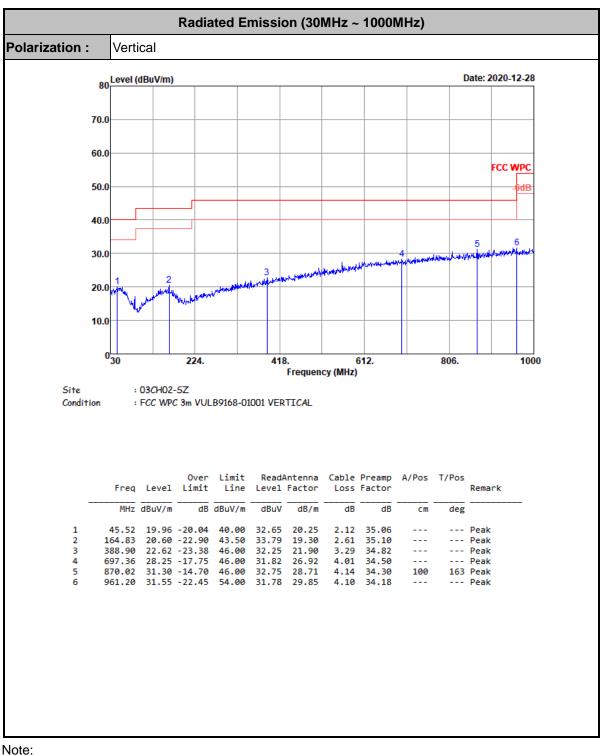
: FCC WPC 3m LOOP ANTENNA - 20070 VERTICAL Condition

Battery	:	90%								
	Freq	Level		Limit Line				A/Pos	T/Pos	Remark
_	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	0.912	39.01	-29.39	68.40	20.02	18.77	0.22			QP
2	2.246	37.16	-32.84	70.00	18.01	18.90	0.25			QP
3	14.304	34.66	-35.34	70.00	15.70	18.53	0.43			QP
4	24.559	35.25	-34.75	70.00	15.54	19.16	0.55			QP
5	25.540	35.29	-34.71	70.00	15.56	19.15	0.58			QP

TEL: 86-755-8637-9589 Page Number : 20 of 28 FAX: 86-755-8637-9595 Issued Date : Mar. 02, 2021 : 02

FCC ID: 2ABZ2-EF14A Report Version Report Template No.: BU5-FR15CWPC Version 2.4





Report No.: FR0O2703-06F

Report Template No.: BU5-FR15CWPC Version 2.4

- 1. Level( $dB\mu V/m$ ) = Read Level( $dB\mu V$ ) + Antenna Factor(dB/m) + Cable Loss(dB) Preamp Factor(dB)
- 2. Over Limit(dB) = Level(dB $\mu$ V/m) Limit Line(dB $\mu$ V/m)

TEL: 86-755-8637-9589 Page Number : 21 of 28 FAX: 86-755-8637-9595 Issued Date : Mar. 02, 2021

FCC ID: 2ABZ2-EF14A Report Version : 02

#### 3.3 AC Conducted Emission Measurement

#### 3.3.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Report No.: FR0O2703-06F

Frequency of emission	Conducted limit (dBuV)						
(MHz)	Quasi-peak	Average					
0.15-0.5	66 to 56*	56 to 46*					
0.5-5	56	46					
5-30	60	50					

<sup>\*</sup>Decreases with the logarithm of the frequency.

#### 3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

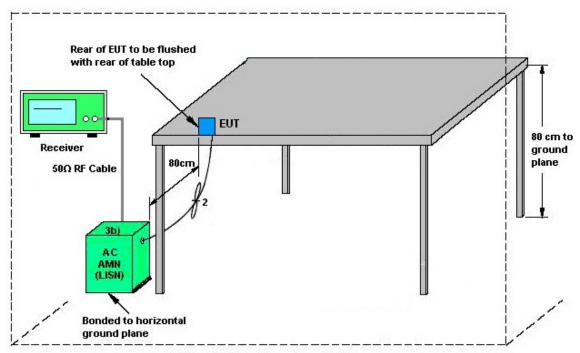
#### 3.3.3 Test Procedure

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

TEL: 86-755-8637-9589 Page Number : 22 of 28
FAX: 86-755-8637-9595 Issued Date : Mar. 02, 2021

FCC ID: 2ABZ2-EF14A Report Version : 02

### 3.3.4 Test Setup



Report No.: FR0O2703-06F

AMN = Artificial mains network (LISN)

AE = Associated equipment

EUT = Equipment under test

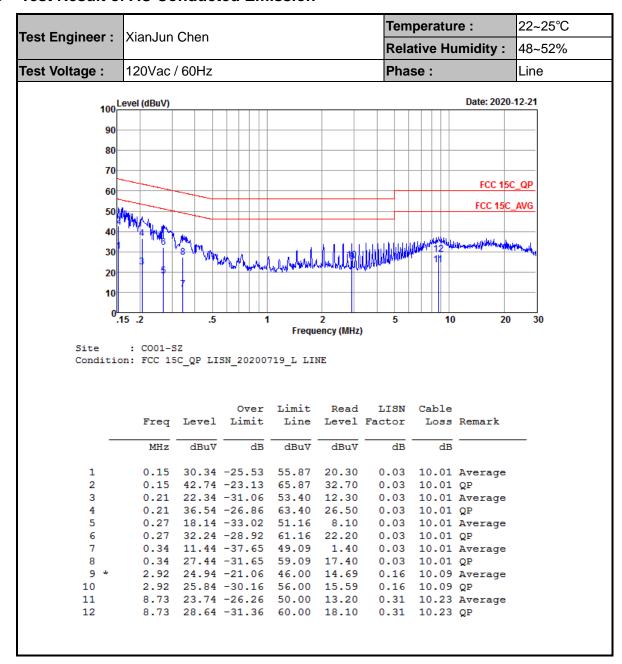
ISN = Impedance stabilization network

 TEL: 86-755-8637-9589
 Page Number
 : 23 of 28

 FAX: 86-755-8637-9595
 Issued Date
 : Mar. 02, 2021

 FCC ID: 2ABZ2-EF14A
 Report Version
 : 02

#### 3.3.5 Test Result of AC Conducted Emission



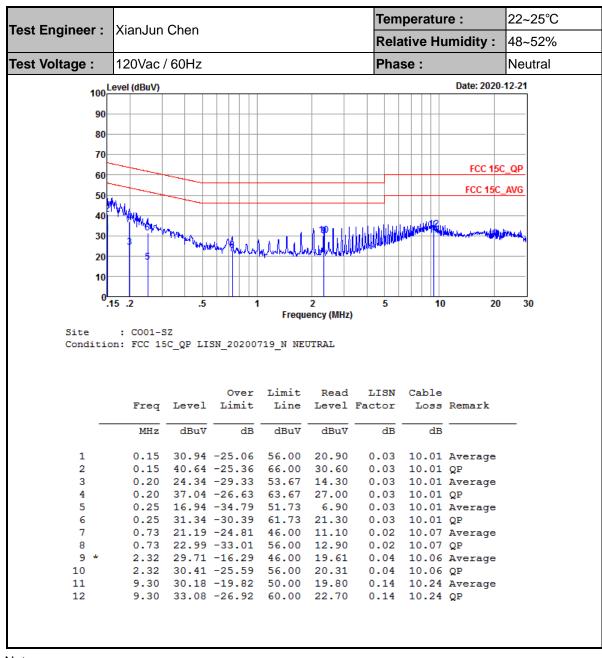
Report No.: FR0O2703-06F

 TEL: 86-755-8637-9589
 Page Number
 : 24 of 28

 FAX: 86-755-8637-9595
 Issued Date
 : Mar. 02, 2021

 FCC ID: 2ABZ2-EF14A
 Report Version
 : 02





Report No.: FR0O2703-06F

#### Note:

Report Template No.: BU5-FR15CWPC Version 2.4

- Level( $dB\mu V$ ) = Read Level( $dB\mu V$ ) + LISN Factor(dB) + Cable Loss(dB)
- 2. Over Limit(dB) = Level(dB $\mu$ V) Limit Line(dB $\mu$ V)

TEL: 86-755-8637-9589 : 25 of 28 Page Number FAX: 86-755-8637-9595 Issued Date : Mar. 02, 2021

FCC ID: 2ABZ2-EF14A Report Version : 02

### 3.4 Antenna Requirements

#### 3.4.1 Standard Applicable

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. 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 shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

Report No.: FR0O2703-06F

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

#### 3.4.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

 TEL: 86-755-8637-9589
 Page Number
 : 26 of 28

 FAX: 86-755-8637-9595
 Issued Date
 : Mar. 02, 2021

 FCC ID: 2ABZ2-EF14A
 Report Version
 : 02

## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 17, 2020	Dec. 10, 2020	Apr. 16, 2021	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY544500 83	20Hz~8.4GHz	Apr. 17, 2020	Dec. 20, 2020~ Mar. 01, 2021	Apr. 16, 2021	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2020	Dec. 20, 2020~ Mar. 01, 2021	Jun. 21, 2022	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Jul. 15, 2020	Dec. 20, 2020~ Mar. 01, 2021	Jul. 14, 2021	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 16, 2020	Dec. 20, 2020~ Mar. 01, 2021	Oct. 15, 2021	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010002 470	N/A	NCR	Dec. 20, 2020~ Mar. 01, 2021	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Dec. 20, 2020~ Mar. 01, 2021	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Dec. 20, 2020~ Mar. 01, 2021	NCR	Radiation (03CH02-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY544500 83	20Hz~8.4GHz	Apr. 17, 2020	Dec. 20, 2020~ Mar. 01, 2021	Apr. 16, 2021	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2020	Dec. 20, 2020~ Mar. 01, 2021	Jun. 21, 2022	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Jul. 15, 2020	Dec. 20, 2020~ Mar. 01, 2021	Jul. 14, 2021	Radiation (03CH02-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Dec. 27, 2019	Dec. 21, 2020	Dec. 26, 2020	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2 LISN	00103912	9kHz~30MHz	Dec. 27, 2019	Dec. 21, 2020	Dec. 26, 2020	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 15, 2020	Dec. 21, 2020	Oct. 14, 2021	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000 891	100Vac~250Vac	Jul. 21, 2020	Dec. 21, 2020	Jul. 20, 2021	Conduction (CO01-SZ)

Report No.: FR0O2703-06F

NCR: No Calibration Required

 TEL: 86-755-8637-9589
 Page Number
 : 27 of 28

 FAX: 86-755-8637-9595
 Issued Date
 : Mar. 02, 2021

 FCC ID: 2ABZ2-EF14A
 Report Version
 : 02

## 5 Uncertainty of Evaluation

#### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence	2.7dB
of 95% (U = 2Uc(y))	2.1 UD

Report No.: FR0O2703-06F

#### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

1		
	Measuring Uncertainty for a Level of Confidence	5.0dB
	of 95% (U = 2Uc(y))	5.00B

 TEL: 86-755-8637-9589
 Page Number
 : 28 of 28

 FAX: 86-755-8637-9595
 Issued Date
 : Mar. 02, 2021

 FCC ID: 2ABZ2-EF14A
 Report Version
 : 02