FCC RF Test Report

Report No.: FR9N2009-01G

Cert #5145.01

APPLICANT : OnePlus Technology (Shenzhen) Co., Ltd

EQUIPMENT : Smart Phone BRAND NAME : ONEPLUS

MODEL NAME : IN2025

FCC ID : 2ABZ2-EE007

STANDARD : FCC Part 15 Subpart C

CLASSIFICATION : (DCD) Part 15 Low Power Transmitter Below 1705 kHz

The product was received on Nov. 20, 2019 and testing was completed on Mar. 15, 2020. 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

Dogue Cher

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

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History of this test report

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Report No.	Version	Description	Issued Date
FR9N2009-01G	01	Initial issue of report	Mar. 19, 2020

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.209	Radiated Emission	Pass	Under limit 17.06 dB at 30.000 MHz
3.2	15.207	AC Conducted Emission	Pass	Under limit 2.62 dB at 0.58 MHz
3.3	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.

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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

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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	IN2025		
FCC ID	2ABZ2-EE007		
	CDMA/GSM/WCDMA/LTE/5G NR		
	WLAN 2.4GHz 802.11b/g/n HT20		
	WLAN 2.4GHz 802.11ax HE20/HE40		
FUT aumonto Padica application	WLAN 5GHz 802.11a/n HT20/HT40		
EUT supports Radios application	WLAN 5GHz 802.11ac VHT20/VHT40/VHT80		
	WLAN 5GHz 802.11ax HE20/HE40/HE80		
	Bluetooth BR/EDR/LE		
	GNSS/NFC/WPC(QI)		
	Conducted: N/A		
IMEI Code	Conduction: 865422040025876/865422040025868		
	Radiation: 865422040025090/865422040025082		
HW Version	15		
SW Version Oxygen OS 10.5.IN11AA			
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.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Frequency Range	100 ~ 205kHz
Type of Modulation	ASK
Antenna Type	Loop Antenna

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1.5 Modification of EUT

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

1.6 Test Location

<FCC>-SZ

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

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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				
Took Site No	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.		
Test Site No.	CO01-SZ		421272		
Test Engineer	LiuDaLin	CN1256			
Temperature	24-25℃	CIV1250			
Relative Humidity	50-53%				

Test Firm	Sporton International (Shenzhen) Inc.				
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan Shenzhen, 518055 People's Republic of China TEL: +86-755-33202398				
Toot Site No	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.		
Test Site No.	03CH04-SZ				
Test Engineer	Jeff Yao	CN1256	421272		
Temperature	22~24 ℃	CN1250			
Relative Humidity	48~49%				

1.7 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-SZ	AUDIX	E3	6.2009-8-24
2.	CO01-SZ	AUDIX	E3	6.120613b

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1.8 Applied Standards

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

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- 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.

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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).

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

Test Items	Function Type		
AC Conducted Emission	Mode 1: Bluetooth Idle + WLAN Idle (5G) + Camera(Front) + Battery1 + Charging from wireless charging		
	Mode 1: WPT Charger (charged DUT Battery 20%)		
Radiated	Mode 2: WPT Charger (charged DUT Battery 50%)		
Emission	Mode 3: WPT Charger (charged DUT Battery 90%)		
	Mode 4: WPT Charger (Battery 20%)(Charged DUT off status)		
Remark: The worst case of RE is mode 1; only the test data of this mode is reported.			

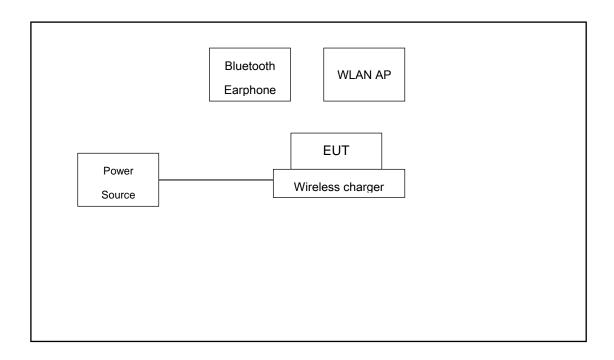
2.2 Connection Diagram of Test System

For Radiation Smart phone **EUT** (Reverse charge)

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For Conducted Emission



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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	oneplus	N/A	N/A	N/A	N/A

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3. Test Result

3.1 Radiated Emission Measurement

3.1.1 Limit of Radiated Emission

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

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Frequency	Field Strength	Field Strength	Measure Distance
(MHz)	(uV/m)	(dBuV/m)	(m)
0.009 – 0.490	2400/F(kHz)	48.5 – 13.8	300
0.490 – 1.705	24000/F(kHz)	33.8 - 23	30
1.705 – 30.0	30	29.5	30
30 – 88	100	40	3
88 – 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	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.

3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Measuring Instrument Setting

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the

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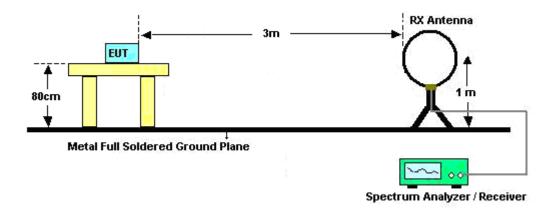


EUT, measuring the emission for three EUT orthogonal planes, and adjusting the measurement antenna height and polarization. A pre-amp and a high pass filter are used for this test in order to get the good signal level.

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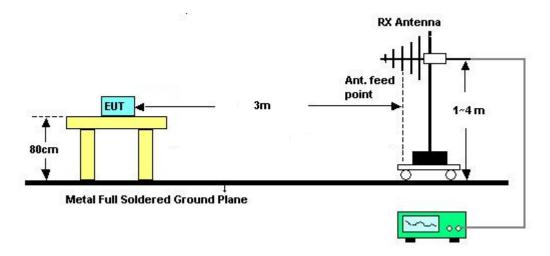
3.1.4 Test Setup of Radiated Emission

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

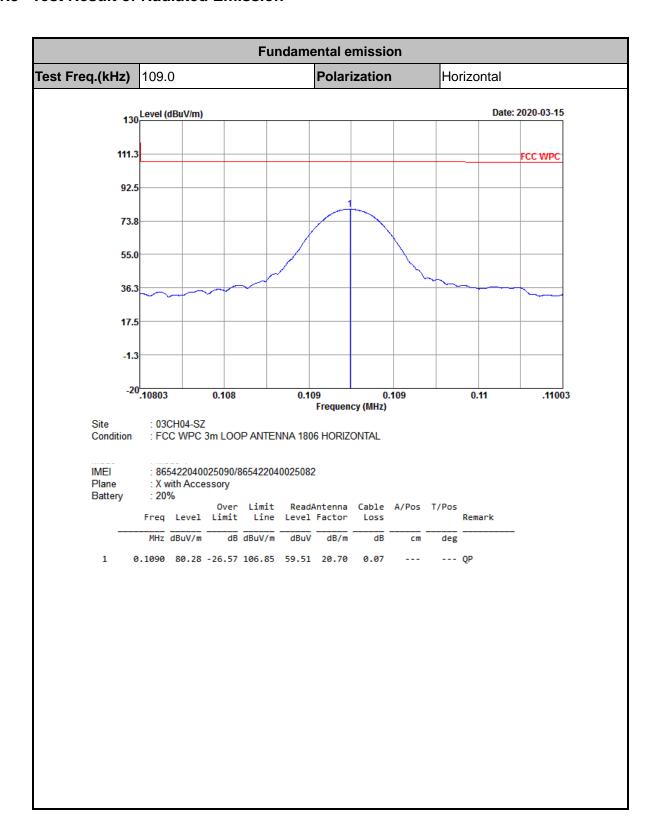


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3.1.5 Test Result of Radiated Emission



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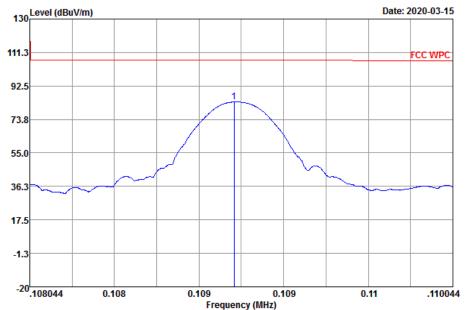
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Fundamental emission

Test Freq.(kHz) 109.0 Polarization Vertical



Site : 03CH04-SZ

Condition : FCC WPC 3m LOOP ANTENNA 1806 VERTICAL

IMEI : 865422040025090/865422040025082

Plane : X with Accessory

Battery : 20%

Over Limit ReadAntenna Cable A/Pos T/Pos
Freq Level Limit Line Level Factor Loss Remark

MHz dBuV/m dB dBuV/m dBuV dB/m dB cm deg

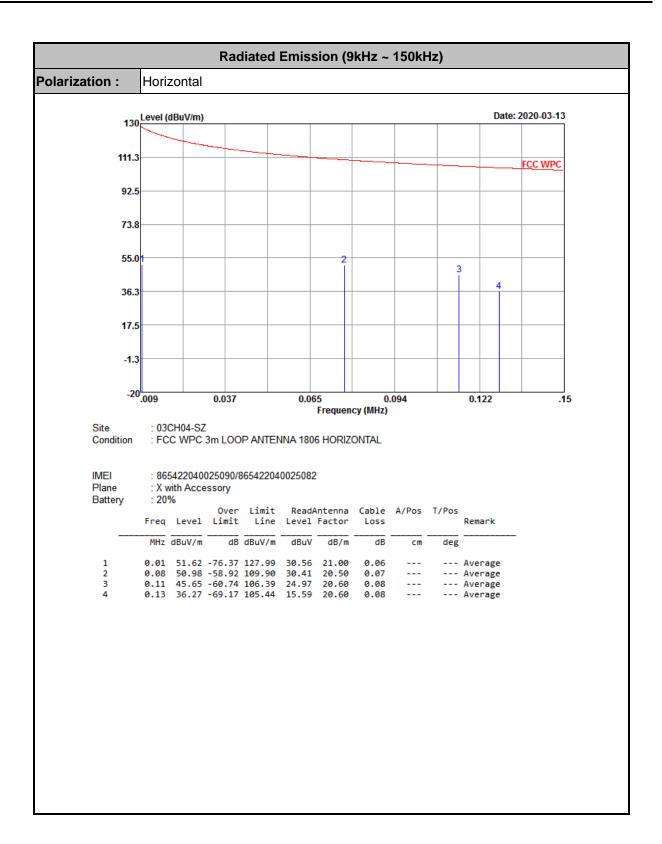
1 0.1090 83.47 -23.38 106.85 62.70 20.70 0.07 --- Q

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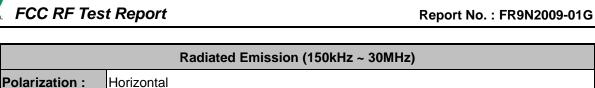


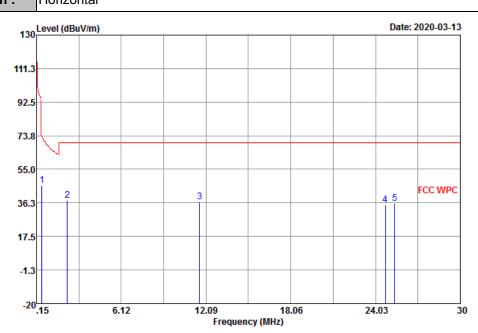
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: 03CH04-SZ Site

FCC WPC 3m LOOP ANTENNA 1806 HORIZONTAL

: 865422040025090/865422040025082 IMEI

Plane : X with Accessory

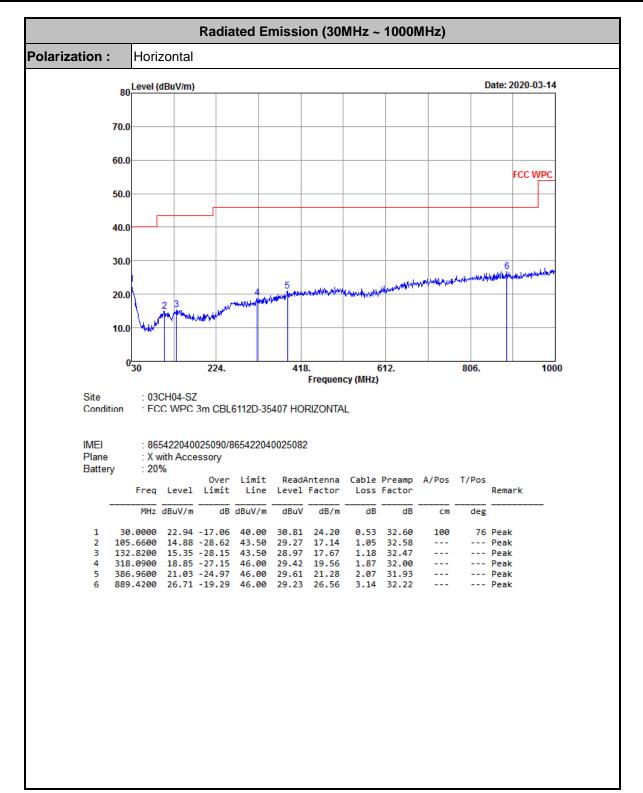
Battery

	Freq	Level		Limit Line					T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	0.54	46.15	-26.74	72.89	25.62	20.42	0.11			QP
2	2.32	37.67	-32.33	70.00	17.06	20.53	0.08			QP
3	11.65	36.63	-33.37	70.00	16.16	20.04	0.43			QP
4	24.72	35.23	-34.77	70.00	14.91	19.63	0.69			QP
5	25.38	36.05	-33.95	70.00	15.69	19.66	0.70			QP

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Radiated Emission (9kHz ~ 150kHz) **Polarization:** Vertical 130 Level (dBuV/m) Date: 2020-03-13 111.3 FCC WPC 92.5 73.8 55.0 36.3 17.5 -1.3 -20<mark>.009</mark> 0.037 0.065 0.094 0.122 .15 Frequency (MHz) : 03CH04-SZ Site : FCC WPC 3m LOOP ANTENNA 1806 VERTICAL Condition : 865422040025090/865422040025082 IMEI Plane : X with Accessory : 20% Battery Over Limit ReadAntenna Cable A/Pos T/Pos Freq Level Limit Line Level Factor Loss Remark MHz dBuV/m dB dBuV/m dBuV dB/m deg
 0.01
 51.61
 -76.20
 127.81
 30.55
 21.00

 0.08
 49.34
 -60.55
 109.89
 28.77
 20.50

 0.12
 44.75
 -61.60
 106.35
 24.07
 20.60

 0.13
 35.92
 -69.49
 105.41
 15.24
 20.60
 0.06 0.07 --- Average ------ Average 0.08 --- Average

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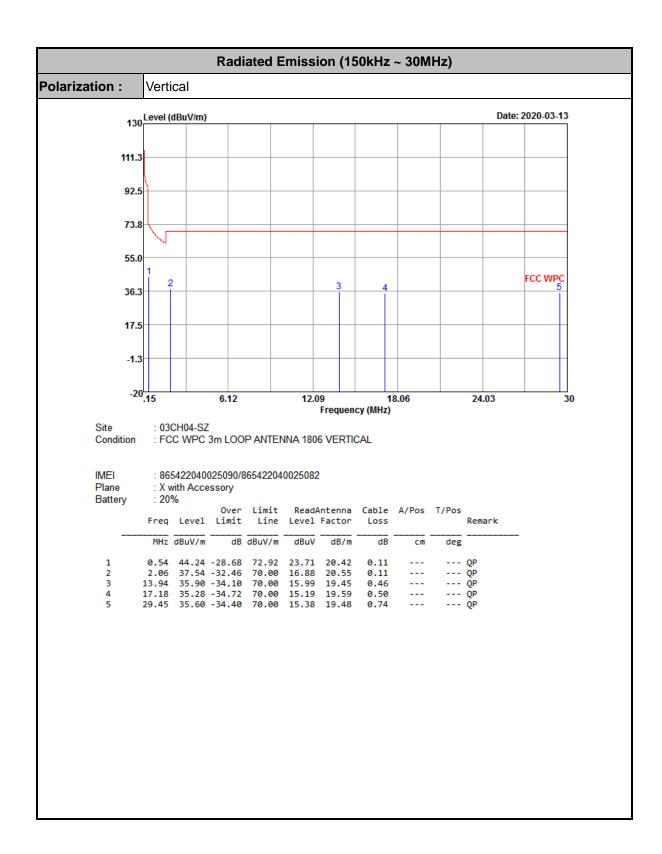
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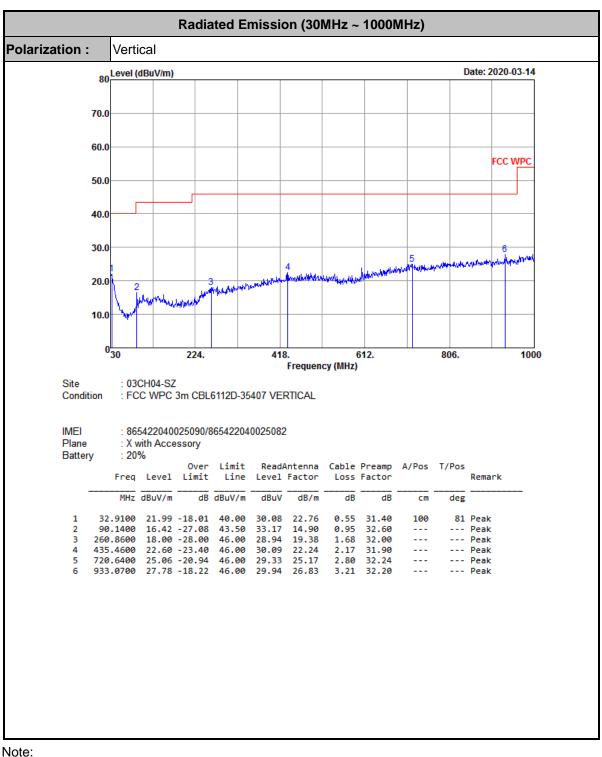




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- 1. Level($dB\mu V/m$) = Read Level($dB\mu V$) + Antenna Factor(dB/m) + Cable Loss(dB) Preamp Factor(dB)
- 2. Over Limit(dB) = Level(dB μ V/m) Limit Line(dB μ V/m)

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3.2 AC Conducted Emission Measurement

3.2.1 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.

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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			

^{*}Decreases with the logarithm of the frequency.

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedure

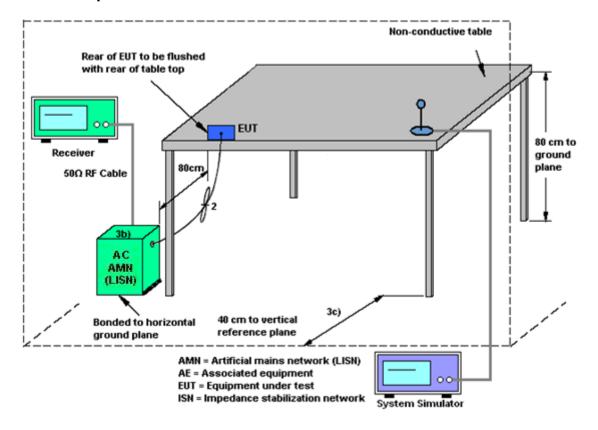
- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other 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.

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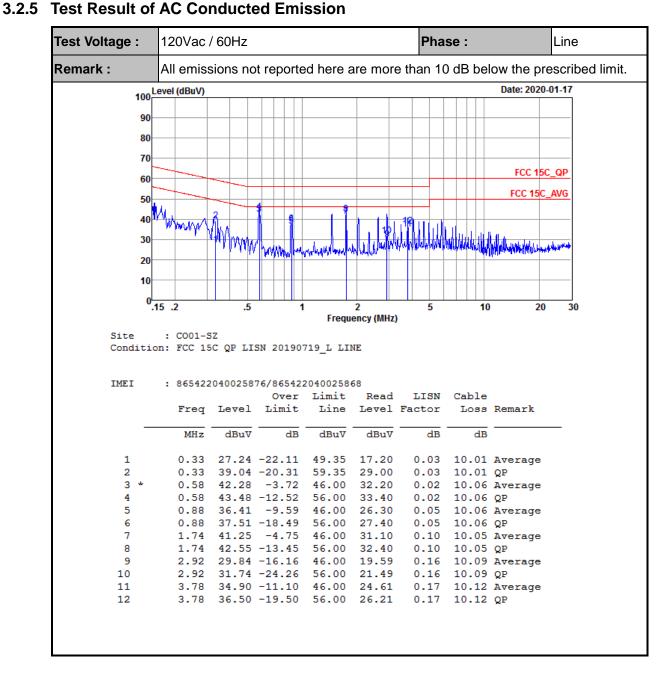
3.2.4 Test Setup



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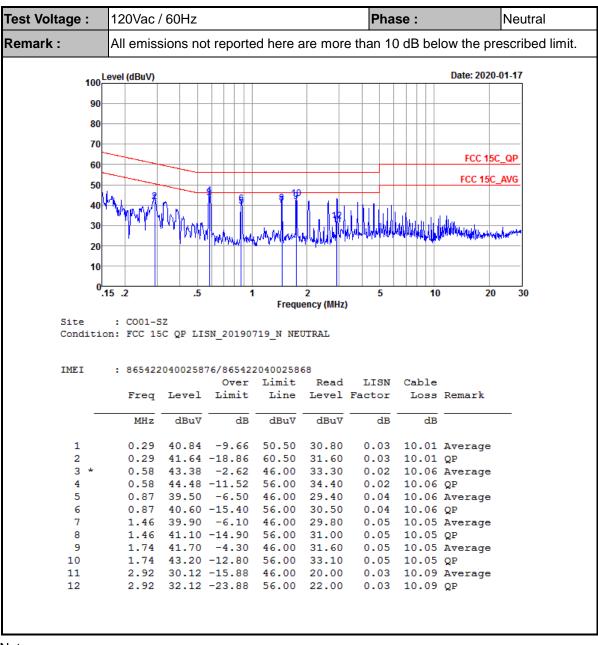


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Note:

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

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3.3 Antenna Requirements

3.3.1 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.

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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.

3.3.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Apr. 18, 2019	Mar. 13, 2020~ Mar. 15, 2020	Apr. 17, 2020	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Apr. 18, 2019	Mar. 13, 2020~ Mar. 15, 2020	Apr. 17, 2020	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May. 29, 2018	Mar. 13, 2020~ Mar. 15, 2020	May. 28, 2020	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Aug. 27, 2019	Mar. 13, 2020~ Mar. 15, 2020	Aug. 26, 2020	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA9120D	9120D-1474	1GHz~18GHz	Apr. 01, 2019	Mar. 13, 2020~ Mar. 15, 2020	Mar. 31, 2020	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBE CK	BBHA9170	9170#679	15GHz~40GHz	Apr.19, 2019	Mar. 13, 2020~ Mar. 15, 2020	Apr. 18, 2020	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18,2019	Mar. 13, 2020~ Mar. 15, 2020	Oct. 17,2020	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P- R	1943528	1GHz~18GHz	Oct. 18,2019	Mar. 13, 2020~ Mar. 15, 2020	Oct. 17,2020	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35-H G	1871923	18GHz~40GHz	Jul. 22. 2019	Mar. 13, 2020~ Mar. 15, 2020	Jul. 21. 2020	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY53270156	500MHz~26.5G Hz	Aug. 26 2019	Mar. 13, 2020~ Mar. 15, 2020	Aug. 25, 2020	Radiation (03CH04-SZ)
AC Power Source	Chroma	61601	N/A	N/A	NCR	Mar. 13, 2020~ Mar. 15, 2020	NCR	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Mar. 13, 2020~ Mar. 15, 2020	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Mar. 13, 2020~ Mar. 15, 2020	NCR	Radiation (03CH04-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Dec. 26, 2019	Jan. 17, 2020	Dec. 25, 2020	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Oct. 17, 2019	Jan. 17, 2020	Oct. 16, 2020	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Dec. 26, 2019	Jan. 17, 2020	Dec. 25, 2020	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	6160200008 91	100Vac~250Vac	Jul. 23, 2019	Jan. 17, 2020	Jul. 22, 2020	Conduction (CO01-SZ)

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NCR: No Calibration Required

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5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence	5.0dB	
of 95% (U = 2Uc(y))	3.00B	

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

Measuring Uncertainty for a Level of Confidence	2 E 4D	
of 95% (U = 2Uc(y))	2.6 dB	

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