FCC RF Test Report

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

EQUIPMENT : Smart Phone BRAND NAME : ONEPLUS

MODEL NAME : DE2118, DE2117 FCC ID : 2ABZ2-EF000

STANDARD : FCC Part 15 Subpart C §15.225

CLASSIFICATION: (DXX) Low Power Communication Device Transmitter

The product was received on Jan. 05, 2021 and testing was completed on Feb. 18, 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

FCC ID: 2ABZ2-EF000

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Report No.: FR110513-01D

Report Template No.: BU5-FR15CNFC Version 2.0

Cert #5145.01

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APPENDIX A. TEST RESULTS OF CONDUCTED EMISSION TEST

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Report No. : FR110513-01D

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR110513-01D	Rev. 01	Initial issue of report	Mar. 18, 2021

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SUMMARY OF THE TEST RESULT

Report Section	FCC Rule	Description of Test	Result	Remark
3.1	15.207	AC Power Line Conducted Emissions	Complies	Under limit 8.00 dB at 0.410MHz
	15.215(c)	20dB Spectrum Bandwidth	Complies	-
3.2	-	99% OBW Spectrum Bandwidth	Complies	-
3.3	15.225(e)	Frequency Stability	Complies	-
3.4	15.225(a)(b)(c)	Field Strength of Fundamental Emissions	Complies	Max level 58.05 dBµV/m at 13.560 MHz
3.5	15.225(d) & 15.209	Radiated Spurious Emissions	Complies	Under limit 8.21 dB at 47.460MHz
3.6	15.203	Antenna Requirements	Complies	-

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, Guangdong, China.

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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, Guangdong, China.

1.3 Product Feature of Equipment Under Test

	Product Feature
Equipment	Smart Phone
Brand Name	ONEPLUS
Model Name	DE2118, DE2117
FCC ID	2ABZ2-EF000
	GSM/WCDMA/LTE/5G NR
	WLAN 2.4GHz 802.11b/g/n/ac HT20/HT40/VHT20/VHT40
EUT supports Radios application	WLAN 5GHz 802.11a/n HT20/HT40
EOT Supports Radios application	WLAN 5GHz 802.11ac VHT20/VHT40/VHT80
	Bluetooth BR / EDR / LE / ANT+
	GNSS/NFC
	Conducted: 990017690032178
IMEI Code	Conduction: 990017690042235
	Radiation: 990017690039447
HW Version	10
SW Version	11.0.1.1.DE18CB
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.4 Product Specification of Equipment Under Test

Standards-related Product Specification			
Tx/Rx Frequency Range	13.553 ~ 13.567MHz		
Channel Number	1		
20dBW	2.57KHz		
99%OBW	2.19KHz		
Antenna Type	Loop Antenna		
Type of Modulation	ASK		

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Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.5 Modification of EUT

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

1.6 Testing Location

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

Test Site	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				
Test Site No.	Sporton Site No.		FCC Designation No.	FCC Test Firm Registration No.	
	TH01-SZ	CO01-SZ			
Test Engineer	Liu Qiu Qiu	Xie YuQiang			
Temperature	Temperature 22~24°C 22~25°C		CN1256	421272	
Relative Humidity	53~55℃	50~55%			

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Test Site	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.		
1001 0110 1101	03CH03-SZ				
Test Engineer	Eason Wu, Feiyan Zhang, Yuwei Li	CN1256	421272		
Temperature	24~25 ℃	5141250	721212		
Relative Humidity	48~49%				

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1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24
2.	CO01-SZ	AUDIX	E3	6.120613b

1.8 Applicable Standards

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

- 47 CFR Part 15 Subpart C §15.225
- ANSI C63.10-2013

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2. Test Configuration of Equipment Under Test

2.1 Descriptions of Test Mode

Investigation has been done on all the possible configurations.

The following table is a list of the test modes shown in this test report.

Test Items				
AC Power Line Conducted Emissions	Field Strength of Fundamental Emissions			
20dB Spectrum Bandwidth	Frequency Stability			
Radiated Emissions 9kHz~30MHz	Radiated Emissions 30MHz~1GHz			

The EUT pre-scanned in four NFC type, A, B, F, V. The worst type (type F) was recorded in this report. Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration (Y plane as worst plane) from all possible combinations.

	Test Cases				
AC Conducted Emission	Mode 1: GSM850 Idle + Bluetooth Link + WLAN Link (2.4G) + USB Cable(Charging from Adapter2) + Battery + Earphone + NFC Tx				
Remark: For Radiated Test Cases, The tests were performed with Adapter 2, Battery, Earphone					

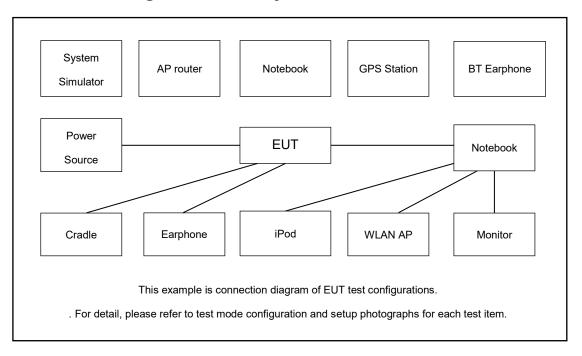
Remark: For Radiated Test Cases, The tests were performed with Adapter 2, Battery, Earphone and USB Cable.

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2.2 Connection Diagram of Test System



2.3 Table for Supporting Units

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	Bluetooth Earphone	Samsung	EO-MG900	N/A	N/A	N/A
3.	WLAN AP	D-Link	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
4.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m
5.	NFC Card	N/A	N/A	N/A	N/A	N/A
6.	Earphone	Apple	MC690ZP/A	N/A	Shielded, 1.0m	N/A

2.4 EUT Operation Test Setup

The EUT was programmed to be in continuously transmitting mode.

The ancillary equipment, NFC card, is used to make the EUT (NFC) continuously transmit at 13.56MHz and is placed around 3 cm gap to the EUT.

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3. Test Results

3.1 AC Power Line Conducted Emissions Measurement

3.1.1 Limit 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 (dBμV)		
(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.

3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

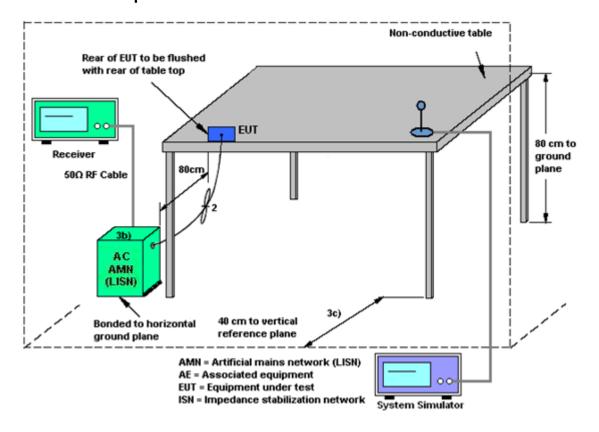
- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to 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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3.1.4 Test setup



3.1.5 Test Result of AC Conducted Emission

Please refer to Appendix A.

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3.2 20dB and 99% OBW Spectrum Bandwidth Measurement

3.2.1 Limit

Intentional radiators must be designed to ensure that the 20dB and 99% emission bandwidth in the specific band 13.553~13.567MHz.

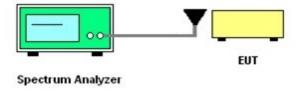
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

- The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
- 2. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
- 3. Measured the spectrum width with power higher than 20dB below carrier.
- 4. Measured the 99% OBW.

3.2.4 Test Setup



3.2.5 Test Result of Conducted Test Items

Please refer to Appendix B.

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3.3 Frequency Stability Measurement

3.3.1 Limit

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

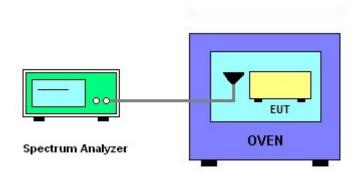
3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

- 1. The spectrum analyzer connected via a receive antenna placed near the EUT.
- 2. EUT have transmitted signal and fixed channelize.
- 3. Set the spectrum analyzer span to view the entire emissions bandwidth.
- 4. Set RBW = 1 kHz, VBW = 3 kHz with peak detector and maxhold settings.
- 5. The fc is declaring of channel frequency. Then the frequency error formula is $(fc-f)/fc \times 10^6$ ppm and the limit is less than ± 100 ppm.
- 6. Extreme temperature rule is -20°C~50°C.

3.3.4 Test Setup



3.3.5 Test Result of Conducted Test Items

Please refer to Appendix B.

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3.4 Field Strength of Fundamental Emissions and Mask Measurement

3.4.1 Limit

Rules and specifications	FCC CFR 47 Part 15 section 15.225									
Description	Compliance with th	Compliance with the spectrum mask is tested with RBW set to 9kHz.								
From of Emission (MUT)	Field Strength	Field Strength	Field Strength	Field Strength						
Freq. of Emission (MHz)	(µV/m) at 30m	(dBµV/m) at 30m	(dBµV/m) at 10m	(dBµV/m) at 3m						
1.705~13.110	30	29.5	48.58	69.5						
13.110~13.410	106	40.5	59.58	80.5						
13.410~13.553	334	50.5	69.58	90.5						
13.553~13.567	15848	84.0	103.08	124.0						
13.567~13.710	334	50.5	69.58	90.5						
13.710~14.010	106	40.5	59.58	80.5						
14.010~30.000	30	29.5	48.58	69.5						

3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

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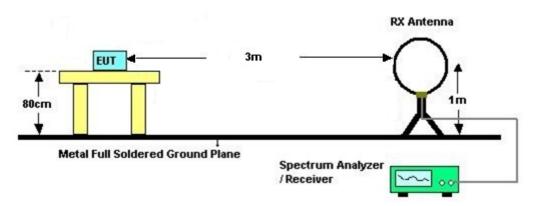
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3.4.3 Test Procedures

- Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the loop receiving antenna mounted antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the receiving antenna was fixed at one meter above ground to find the maximum emissions field strength.
- 4. For Fundamental emissions, use the receiver to measure QP reading.
- 5. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 6. Compliance with the spectrum mask is tested with RBW set to 9kHz. Note: Emission level ($dB\mu V/m$) = 20 log Emission level ($\mu V/m$).

3.4.4 Test Setup

For radiated emissions below 30MHz



3.4.5 Test Result of Field Strength of Fundamental Emissions and Mask

Please refer to Appendix C.

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3.5 Radiated Emissions Measurement

3.5.1 Limit

The field strength of any emissions which appear outside of 13.110 ~14.010MHz band shall not exceed the general radiated emissions limits.

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Frequencies	Field Strength	Measurement Distance
(MHz)	(μV/m)	(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

3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 Measuring Instrument Setting

The following table is the setting of receiver.

Receiver Parameter	Setting
Attenuation	Auto
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.

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3.5.4 Test Procedures

 Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.

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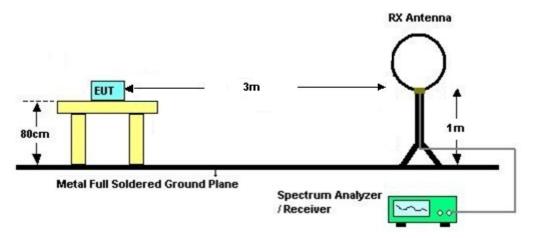
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. Antenna Requirements

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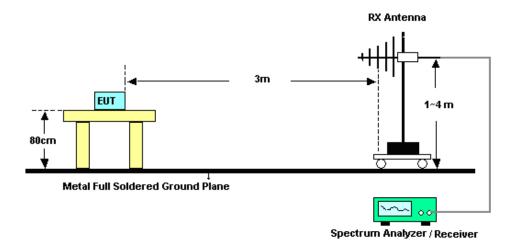
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3.5.5 Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz



3.5.6 Test Result of Radiated Emissions Measurement

Please refer to Appendix C.

Remark: There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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3.6 Antenna Requirements

3.6.1 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.

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.

3.6.2 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
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 17, 2020	Feb. 02, 2021	Apr. 16, 2021	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangrou	LP-150U	H2014081 803	-40~+150°C	Jul. 22, 2020	Feb. 02, 2021	Jul. 21, 2021	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY544500 83	20Hz~8.4GHz	Apr. 17, 2020	Feb. 18, 2021	Apr. 16, 2021	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY551502 46	10Hz~44GHz;	Apr. 17, 2020	Feb. 18, 2021	Apr. 16, 2021	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2020	Feb. 18, 2021	Jun. 21, 2021	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Jun. 22, 2020	Feb. 18, 2021	Jun. 21, 2021	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102210	0.01Hz ~3000MHz	Oct. 17, 2020	Feb. 18, 2021	Oct. 16, 2021	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010001 985	N/A	NCR	Feb. 18, 2021	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Feb. 18, 2021	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Feb. 18, 2021	NCR	Radiation (03CH03-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Dec. 25, 2020	Feb. 02, 2021~ Feb. 03, 2021	Dec. 24, 2021	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2 LISN	00103912	9kHz~30MHz	Dec. 25, 2020	Feb. 02, 2021~ Feb. 03, 2021	Dec 24, 2021	Conduction (CO01-SZ)
AC LISN (for auxiliary	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 15, 2020	Feb. 02, 2021~ Feb. 03, 2021	Oct. 14, 2021	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000 891	100Vac~250Vac	Jul. 21, 2020	Feb. 02, 2021~ Feb. 03, 2021	Jul. 20, 2021	Conduction (CO01-SZ)

NCR: No Calibration Required

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5. Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Report No.: FR110513-01D

<u>Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)</u>

Measuring Uncertainty for a Level of Confidence	2.7dB
of 95% (U = 2Uc(y))	2.746

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

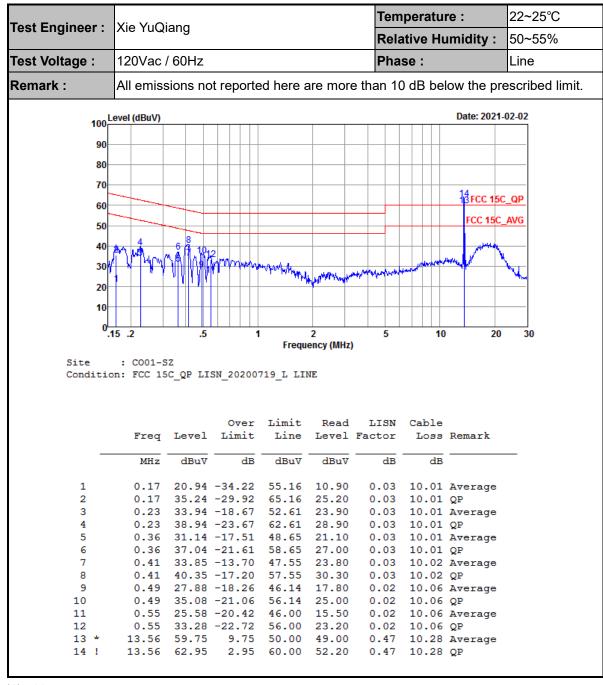
Measuring Uncertainty for a Level of Confidence	5.0 dB
of 95% (U = 2Uc(y))	3.0 UB

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Appendix A. Test Results of Conducted Emission Test



(1) with antenna

Remark: 13.560MHz is the NFC RF fundamental signal.

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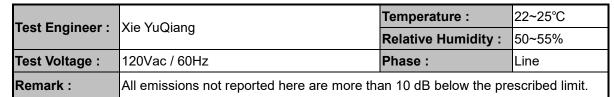
Test Voltage: 120Vac / 60Hz Phase: Neutral Remark: All emissions not reported here are more than 10 dB below the prescribed limit. 100	Test Voltage :		ang		o VuQiona					
All emissions not reported here are more than 10 dB below the prescribed limit. 100 100							Rela	ative Hu	ımidity :	50~55%
Date: 2021-02-02 100	Domark :	120Vac /	60Hz				Pha	se:		Neutral
100 15 15 16 16 16 17 17 18 18 18 18 19 19 19 19	Reillaik .	All emiss	sions no	t reporte	ed here a	are more	e than 10	dB be	ow the pr	escribed limit.
10		evel (dBuV)			Date: 2021	-02-02				
Site CO01-SZ Condition: FCC 1SC_QP LISN_20200719_N NEUTRAL	100									
The second secon										
The continue of the continue	80-									
Condition: FCC 15C QP LISN_20200719_N NEUTRAL	70									
Site CO01-S2 Condition: FCC 15C QP LISN_20200719_N NEUTRAL	60-	-							3FCC 150	C_QP
Site CO01-SZ Condition: FCC 15C QP LISN_20200719 N NEUTRAL	-								FCC 15C	AVG
30 20 10 10 15.2 15.2 15.1 2 Frequency (MHz) Site : C001-SZ Condition: FCC 15C_QP LISN_20200719_N NEUTRAL	50	NA L	8 10	40						
Site C001-SZ Condition: FCC 15C_QP LISN_20200719_N NEUTRAL	40	ϓͿ ϒϒ	ha Malir	Mar Mary may	/h. a				andrew a	
Site C001-SZ Condition: FCC 15C_QP LISN_20200719_N NEUTRAL	30	3 , 1	TAIAAA	<u>" </u>	, describitions of the	VILLANDENMAN	Market Market Language	- Andrews	promision y	X.
Site C001-SZ Condition: FCC 15C_QP LISN_20200719_N NEUTRAL			3 411 4.							Mar
Site C001-SZ Condition: FCC 15C_QF LISN_20200719_N NEUTRAL	20									
Site C001-SZ Condition: FCC 15C_QP LISN_20200719_N NEUTRAL	10									
Site C001-SZ Condition: FCC 15C_QP LISN_20200719_N NEUTRAL	0_									
Site : C001-SZ Condition: FCC 15C_QP LISN_20200719_N NEUTRAL	~.1	15 .2	.5	1		_	_	10	20	30
Freq Level Limit Line Level Factor Loss Remark				SN_202007	719_N NE	JTRAL				
MHz dBuV dB dBuV dBuV dB dB dB 1 0.18 36.24 -18.22 54.46 26.20 0.03 10.01 Average 2 0.18 42.44 -22.02 64.46 32.40 0.03 10.01 QP 3 0.21 27.94 -25.42 53.36 17.90 0.03 10.01 Average 4 0.21 38.24 -25.12 63.36 28.20 0.03 10.01 QP 5 0.31 35.44 -14.40 49.84 25.40 0.03 10.01 Average 6 0.31 40.34 -19.50 59.84 30.30 0.03 10.01 QP 7 0.41 39.64 -8.00 47.64 29.60 0.02 10.02 Average 8 0.41 44.44 -13.20 57.64 34.40 0.02 10.02 QP 9 0.50 35.08 -10.97 46.05 25.00 0.02 10.06 Average 10 0.50 40.38 -15.67 56.05 30.30 0.02 10.06 QP 11 0.59 33.68 -12.32 46.00 23.60 0.02 10.06 QP 13 * 13.56 58.77 8.77 50.00 48.20 0.29 10.28 Average				Over	Limit	Read	LISN	Cable		
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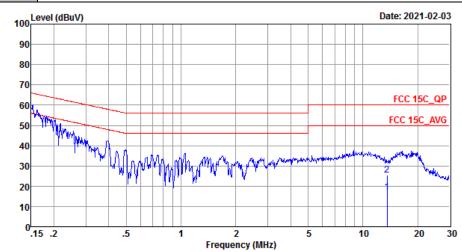
(1) with antenna

Remark: 13.560MHz is the NFC RF fundamental signal.

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Site : C001-SZ Condition: FCC 15C QP LISN 20200719_L LINE

	Freq	Level				LISN Factor		Remark
_	MHz	dBu∀	dB	dBuV	dBu₹	dB	dB	
1 *	13.56	16.85	-33.15	50.00	6.10	0.47	10.28	Average
2	13.56	25.35	-34.65	60.00	14.60	0.47	10.28	QP

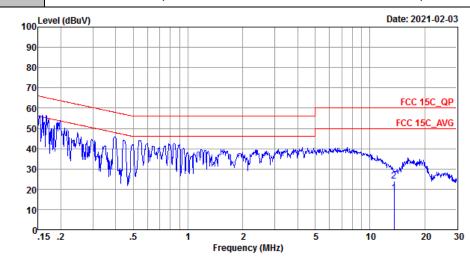
(2) With dummy load

Remark: Only the fundamental NFC signal needs to be retested per KDB 174176.

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Remark: All emissions not reported here are more than 10 dB below the prescribed limit.



Site : COO1-SZ

Condition: FCC 15C QP LISN 20200719_N NEUTRAL

	Freq	Level				LISN Factor		Remark
-	MHz	dBuV	dB	dBu∀	dBuV	dB	dB	
1 *	13.56	18.07	-31.93	50.00	7.50	0.29	10.28	Average
2	13.56	23.97	-36.03	60.00	13.40	0.29	10.28	QP

(2) With dummy load

Remark: Only the fundamental NFC signal needs to be retested per KDB 174176.

Note:

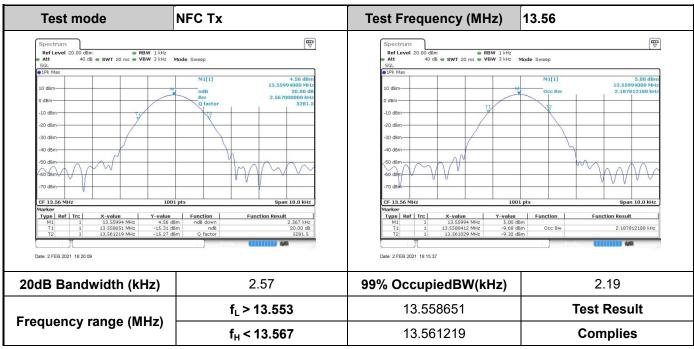
- 1. Level(dB μ V) = Read Level(dB μ V) + LISN Factor(dB) + Cable Loss(dB)
- 2. Over Limit(dB) = Level(dB μ V) Limit Line(dB μ V)

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Appendix B. Test Results of Conducted Test Items

B1. Test Result of 20dB Spectrum Bandwidth



Remark: Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

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B2. Test Result of Frequency Stability

Voltage vs. Frequ	uency Stability	Temperature vs. Fr	equency Stability	
Voltage (Vdc)	Measurement Frequency (MHz)	Temperature (℃)	Measurement Frequency (MHz)	
3.45	13.559935	-20	13.559940	
3.87	13.559935	-10	13.559920	
4.45	13.559930	0	13.559920	
-	-	10	13.559915	
-	-	20	13.559940	
-	-	30	13.559945	
-	-	40	13.559940	
-	-	50	13.559950	
Max.Deviation (MHz)	-0.000070	Max.Deviation (MHz)	-0.000085	
Max.Deviation (ppm)	-5.1622	Max.Deviation (ppm)	-6.2684	
Limit	FS < ±100 ppm	Limit	FS < ±100 ppm	
Test Result	PASS	Test Result	PASS	

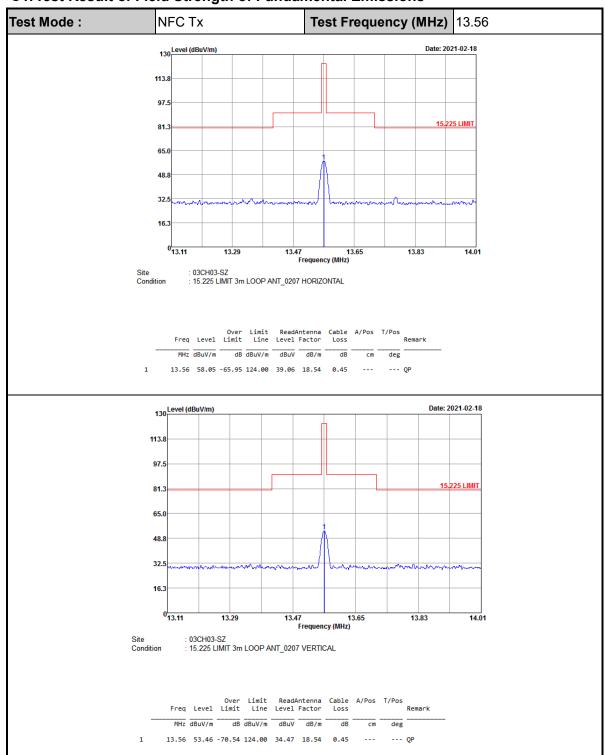
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Appendix C. Test Results of Radiated Test Items

C1. Test Result of Field Strength of Fundamental Emissions



Note:

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

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C2. Results of Radiated Spurious Emissions (9 kHz~30MHz)

Test Mode :	est Mode: NFC Tx			Polariz	Polarization :			Horizontal			
Frequency	Level	Over	Limit	Read	Antenna	Cable	Ant	Table	Remark		
		Limit	Line	Level	Factor	Loss	Pos	Pos			
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(cm)	(deg)			
0.01884	52.87	-69.23	122.1	33.75	19.07	0.05	-	-	Average		
0.06513	52.52	-58.81	111.33	33.59	18.87	0.06	-	-	Average		
0.10257	43.01	-64.37	107.38	24.11	18.83	0.07	-	-	QP		
0.12654	40.58	-64.98	105.56	21.69	18.81	80.0	-	-	Average		
0.4941	41.8	-31.93	73.73	22.97	18.75	80.0	-	-	QP		
2.942	39.41	-30.59	70	20.24	18.96	0.21	-	-	QP		
11.912	36.67	-33.33	70	17.57	18.68	0.42	-	-	QP		
21.67	37.19	-32.81	70	17.54	19.1	0.55	-	-	QP		
29.89	36.55	-33.45	70	17.11	18.76	0.68			QP		

Test Mode :	: NFC	Tx		Polariz	zation :	Vert	ical		
Frequency	Level	Over	Limit	Read	Antenna	Cable	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(cm)	(deg)	
0.01884	51.8	-70.3	122.1	32.68	19.07	0.05	-	-	Average
0.06516	51.61	-59.71	111.32	32.68	18.87	0.06	-	-	Average
0.1152	38.9	-67.48	106.38	20.01	18.81	0.08	-	-	Average
0.12831	37.82	-67.62	105.44	18.93	18.81	0.08	-	-	Average
0.5274	41.01	-32.15	73.16	22.18	18.75	0.08	-	-	QP
2.114	37.21	-32.79	70	18.14	18.89	0.18	-	-	QP
14.888	36.44	-33.56	70	17.43	18.54	0.47	-	-	QP
22.471	36.45	-33.55	70	16.8	19.09	0.56	-	-	QP
25.325	37.08	-32.92	70	17.32	19.16	0.60	-	-	QP

Note:

- 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. Limit line = specific limits $(dB\mu V)$ + distance extrapolation factor.

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C3. Results of Radiated Spurious Emissions (30MHz~1GHz)

Test Mode :		NFC Tx		Po	Polarization :			Horizontal			
Frequency	Leve		Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark	
(MHz)	(dBµV/	Limit m) (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB)	Loss (dB)	Factor (dB)	Pos (cm)	Pos		
, ,	, ,	, , ,			, ,	, ,	, ,	, ,	(deg)		
48.43	23.4	8 -16.52	40	36.08	20.28	2.2	35.08	100	37	Peak	
121.18	23.9	8 -19.52	43.5	39.47	17.17	2.5	35.16	-	-	Peak	
149.31	26.3	4 -17.16	43.5	39.58	19.31	2.55	35.1	-	-	Peak	
359.8	26.6	6 -19.34	46	37.21	21.08	3.25	34.88	-	-	Peak	
607.15	29	-17	46	33.74	25.87	3.89	34.5	-	-	Peak	
983.51	31.3	5 -22.65	54	31.23	30.09	4.16	34.13	-	-	Peak	

Test Mode : N		NFC Tx			larization	Vertical				
Frequency	Leve	l Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/	m) (dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
47.46	31.79	9 -8.21	40	44.42	20.27	2.17	35.07	100	150	Peak
98.87	27.5	1 -15.99	43.5	45.64	14.6	2.47	35.2	-	-	Peak
156.1	33.4	4 -10.06	43.5	46.67	19.3	2.57	35.1	-	-	Peak
560.59	33.0	2 -12.98	46	38.88	25.02	3.7	34.58	-	-	Peak
607.15	32.6	2 -13.38	46	37.36	25.87	3.89	34.5	-	-	Peak
981.57	31.4	1 -22.59	54	31.33	30.07	4.15	34.14	-	-	Peak

Note:

- 1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 2. Emission level (dB μ V/m) = 20 log Emission level (μ V/m).
- 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor= Level.

Sporton International (Shenzhen) Inc.

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