





TEST REPORT

No. I21N01406-NFC

for

Guangdong OPPO Mobile Telecommunications Corp., Ltd.

Mobile Phone

Model Name: CPH2271

with

Hardware Version: 11

Software Version: ColorOS V11.1

FCC ID: R9C-CPH227X

Issued Date: 2021-06-01

Designation Number: CN1210

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

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1. Summary of Test Report

1.1. Test Items

Description Mobile Phone Model Name CPH2271

Applicant's name Guangdong OPPO Mobile Telecommunications Corp., Ltd. Manufacturer's Name Guangdong OPPO Mobile Telecommunications Corp., Ltd.

1.2. Test Standards

FCC Part15-2019; ANSI C63.10-2013; ANSI C63.4-2014

1.3. Test Result

Pass

Please refer to "5.2. Test Results"

1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China

1.5. Project data

Testing Start Date: 2021-05-15 Testing End Date: 2021-05-21

1.6. Signature

Lin Zechuang

(Prepared this test report)

Tang Weisheng

(Reviewed this test report)

Zhang Bojun

(Approved this test report)



Address:

Address:

2. Client Information

2.1. Applicant Information

Company Name: Guangdong OPPO Mobile Telecommunications Corp., Ltd.

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2.2. Manufacturer Information

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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description Mobile Phone
Model Name CPH2271
Frequency 13.56MHz

Antenna type Integrated antenna

Extreme Temperature 0°C/+35°C

Operation Voltage 3.60VDC to 4.45VDC (nominal: 3.87VDC)

Power source Battery

FCC ID R9C-CPH227X

Condition of EUT as received No abnormality in appearance

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Shenzhen Academy of Information and Communications Technology.

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Receive Date	
UT01aa	862282050037291	11	ColorOS V11.1	2021-04-29	
	862282050037283	11	C010103 V 11.1		
UT05aa	862282050038216	11	ColorOS V11.1	2021-04-29	
UTUSAA	862282050038208	11	C010103 V11.1		
LITOGOG	862282050038299	4.4	ColorOC \/11 1	2024 04 20	
UT06aa	862282050038281	11	ColorOS V11.1	2021-04-29	

^{*}EUT ID: is used to identify the test sample in the lab internally.

UT01aa is used for conduction test, UT05aa is used for radiation test, and UT06aa is used for Conducted Emission test.

3.3. Internal Identification of AE used during the test

AE ID*	Description	SN
AE1	Power Supply	/
AE2	NFC Card	/
AE3	Battery	/
AE4	Charger	/
AE5	USB Cable	/
AE6	Headset	/

AE1/AE2

/

AE3

Model BLP805

Manufacturer Sunwoda Electronic Co., Ltd.

Capacity 4890mAh



Nominal Voltage 3.87V

AE4

Model OP52JAUH

Manufacturer HUIZHOU GOLDEN LAKE INDUSTRIAL CO., LTD

Specification American Standard Charger

AE5

Model DL143

Manufacturer Freeport Resources Enterprises (Jiangxi) CO.,LTD

AE6

Model MH156

Manufacturer GuangDong Allwin Technology Co.,Ltd

3.4. General Description

Equipment under Test (EUT) is a model of Mobile Phone with integrated antenna and battery.

It consists of normal options: Lithium Battery, Charger, USB Cable and Headset.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.

3.5. EUT Set-ups

EUT Set-up No.	Combination of EUT and AE	Remarks
Set. NFC01	EUT+AE1+AE2	NFC RF, TX test
Set. NFC02	EUT+AE1	NFC RF, RX test

CE_test.apk is installed in the EUT which helps to control the NFC signal transmitting.

The Transmit State of NFC: the NFC function is on. The EUT will transmit the NFC data and command continuously during the test.

The Transmit State without modulation: The EUT will transmit the CW signal at the operating frequency.

^{*}AE ID: is used to identify the test sample in the lab internally. AE4: just for testing.



4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
CFR 47 Part 15	FCC CFR 47,Part 15,Subpart C	2019
ANSI C63.10	American National Standard of Procedures for Compliance	2013
	Testing of Unlicensed Wireless Devices	
ANSI C63.4	American National Standard for Methods of Measurement of	2014
	Radio-Noise Emissions from Low-Voltage Electrical and	
	Electronic Equipment in the Range of 9 kHz to 40 GHz.	



5. Test Results

5.1. Testing Environment

Normal Temperature: 15~35°C Relative Humidity: 20~75%

5.2. Test Results

No	Test Cases	Clause in Regulation	Section in This Report	Verdict
1	Electric Field Strength of	CFR 47 § 15.225(a)		Р
ı	Fundamental Emissions	OFK 47 9 15.225(a)	A.1	Г
2	Electric Field Strength of	CFR 47 § 15.225(b)	A. I	Р
	Outside the Allocated Bands	CFR 47 § 15.225(c)		Р
3	Electric Field Radiated	CFR 47 § 15.209	A.2	Р
3	Emissions	CFR 47 § 15.225(d)	A.3	Р
4	Frequency Tolerance	CFR 47 § 15.225(e)	A.4	Р
5	20dB Bandwidth	CFR 47 § 15.215(c)	A.5	Р
6	Conducted Emissions	CFR 47 § 15.207	A.6	Р

The measurement is carried out according to ANSI C63.10 and ANSI C63.4.

See ANNEX A for details.

5.3. Statements

The test cases listed in Section 5.2 of this report for the EUT specified in Section 3 were performed by SAICT according to the reference documents in Section 4.

The EUT meets all applicable requirements of the regulations and standards in Section 4.2.

This report only deals with the NFC function among the features described in section 3.



6. <u>Test Equipments Utilized</u>

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Vector Signal Analyzer	FSV40	100903	Rohde & Schwarz	2021-12-30	1 year
2	DC Power Supply	ZUP60-14	6MY-847Z13 -0001	TDK-Lambda	2022-02-25	1 year
3	Test Receiver	ESCI	100702	Rohde & Schwarz	2022-01-13	1 year
4	LISN	ENV216	102067	Rohde & Schwarz	2021-07-16	1 year

Climate chamber

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Climate chamber	SU-242	93008165	ESPEC	2022-03-14	1 year

Radiated emission test system

No	Equipment	Model	Serial	Manufacturer	Calibration	Calibration
No.		Model	Number	Manufacturer	Due date	Period
1	Test Receiver	ESR7	101676	Rohde & Schwarz	2021-11-25	1 year
2	BiLog Antenna	VULB 9163	9163-330	Schwarzbeck	2024-03-22	3 years
3	Loop Antenna	HLA6120	35779	TESEQ	2022-04-25	3 years
4	Chamber	FACT3-2.0	1285	ETS-Lindgren	2021-07-19	2 years
5	Software	EMC32	V10.01.00	Rohde & Schwarz	/	/



7. Laboratory Environment

Semi-anechoic chamber

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω
Normalised site attenuation (NSA)	< ±4 dB, 3 m distance, from 30 to 1000 MHz

Shielded room

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-1000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω

Fully-anechoic chamber

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18 GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz



ANNEX A: MEASUREMENT RESULTS

A.1. Electric Field Strength of Fundamental and Outside the Allocated bands

A.1.1. Reference

See CFR 47 § 15.225

A.1.2. Measurement Methods

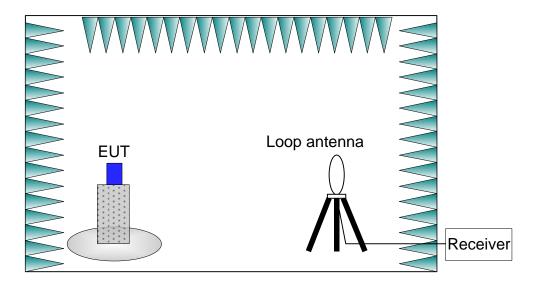
The transmitter carrier output levels (E-Field) from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The E-field is measured with a shielded loop antenna connected to a measurement receiver. Detected E-field was maximized by rotating the EUT through 360° and adjusting the receiving antenna polarizations. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.

The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/VBW	
12.56-14.56	10/30 kHz	

The E-field measured at 3m is calculated as:

E-field $(dB\mu V/m) = Rx (dB\mu V) + Cable Loss (dB) + AF@3m (dB/m)$



A.1.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC (See 3.5).

The EUT is powered by a travel adapter.

During the measurements, the ambient temperature of the electromagnetic anechoic chamber is in the range of $15 \sim 25^{\circ}$ C.



A.1.4. Limits

Frequency Range (MHz) E-field Strength Limit @ 30 m (µV/m)		E-field Strength Limit @ 3 m (dBµV/m)
13.560 ± 0.007	+15,848	124
13.410 to 13.553	+334	90
13.567 to 13.710	+334	90
13.110 to 13.410	+106	81
13.710 to 14.010	+106	01

Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula:

Extrapolation (dB) = 40 * log₁₀(Measurement Distance / Specification Distance)

A.1.5. Measurement Results

Measurement results of normal conditions see Figure A-1 for different set-ups of EUT. The result displayed take into account applicable antenna factors and cable losses.

Conclusions: PASS.

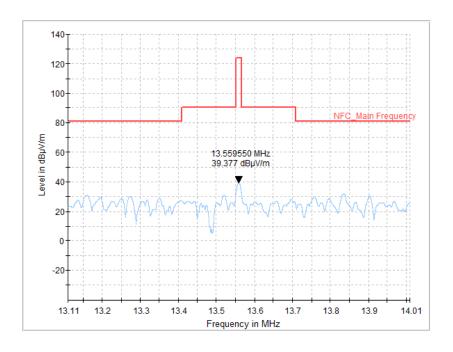


Figure A-1 Electric Field Strength

A.1.6. Measurement Uncertainty

Measurement uncertainty: U = 1.74 dB, k=2.



A.2. Electric Field Radiated Emissions (<30MHz)

A.2.1. Reference

See CFR 47 § 15.209 See CFR 47 § 15.225(d)

A.2.2. Measurement Methods

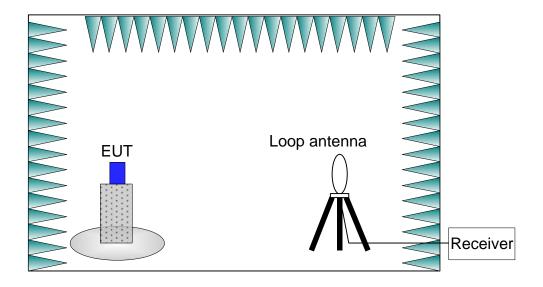
The transmitter carrier output levels (E-Field) from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The E-field is measured with a shielded loop antenna connected to a measurement receiver. Detected E-field was maximized by rotating the EUT through 360° and adjusting the receiving antenna polarizations. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.

The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/VBW
0.009-0.15	100/300 Hz
0.15-30	10/30 kHz

The E-field measured at 3m is calculated as:

E-field $(dB\mu V/m) = Rx (dB\mu V) + Cable Loss (dB) + AF@3m (dB/m)$



A.2.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC (See 3.5).

The EUT is powered by a travel adapter.

During the measurements, the ambient temperature of the electromagnetic anechoic chamber is in the range of 15 \sim 25 $^{\circ}$ C.



A.2.4. Limits

Fraguency Bongo (MU=)	E-field Strength Limit @	E-field Strength Limit @ 3m
Frequency Range (MHz)	30m (mV/m)	(dBµV/m)
0.009-0.490	2400/F(kHz)	129-94
0.490-1.705	24000/F(kHz)	74-63
1.705-30	30	70

Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula:

Extrapolation (dB) = 40 * log₁₀(Measurement Distance / Specification Distance)

A.2.5. Measurement Results

Measurement results of normal conditions see Figure A-2 for different set-ups of EUT. The result displayed take into account applicable antenna factors and cable losses.

Conclusions: PASS.

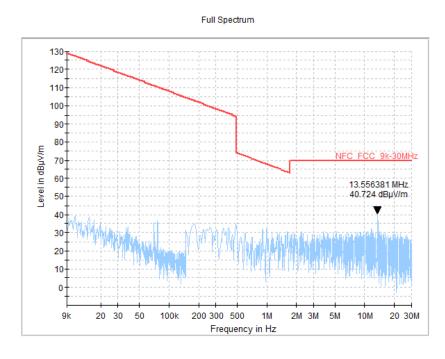


Figure A-2 Transmit State (9k-30M)

A.2.6. Measurement Uncertainty

Measurement uncertainty: U = 1.74 dB, k=2.



A.3. Electric Field Radiated Emissions (≥30MHz)

A.3.1. Reference

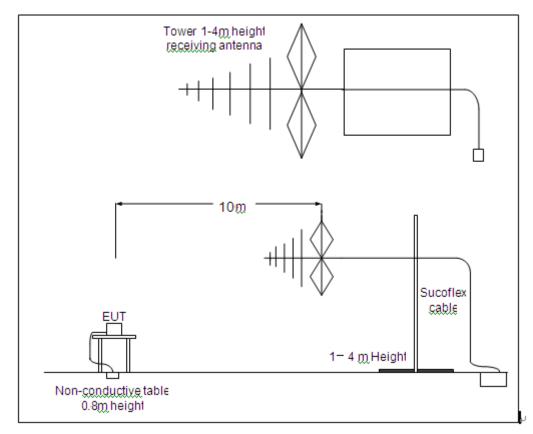
See CFR 47 § 15.209 See CFR 47 § 15.225(d)

A.3.2. Measurement Methods

The electric field radiated emissions from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 10m from the receiving antenna. The receiving antennas connected to a measurement receiver comply with the standard requirements. In order to search for maximum field strength emitted from the EUT, the receiving antenna can be moved between the height of 1.0 m to 4.0 m. Detected E-field was maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna positions for both vertical and horizontal antenna polarizations. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.

The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/VBW		
30-1000	120kHz		





A.3.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC (See 3.5).

EUT had been connected to a travel adapter.

During the measurements, the ambient temperature of the electromagnetic anechoic chamber is in the range of $15 \sim 25^{\circ}$ C.

A.3.4. Limits

Frequency	E-field Strength Limit	E-field Strength Limit	E-field Strength Limit
Range (MHz)	@ 3m (mV/m)	@ 3m (dBµV/m)	@ 10m (dBμV/m)
30-88	100	40	30
88-216	150	43.5	33.5
216-960	200	46	36
960-1000	500	54	44

A.3.5. Measurement Results

Measurement results of normal conditions see Figure A-3 for different set-ups of EUT. The result displayed take into account applicable antenna factors and cable losses.

Conclusions: PASS.

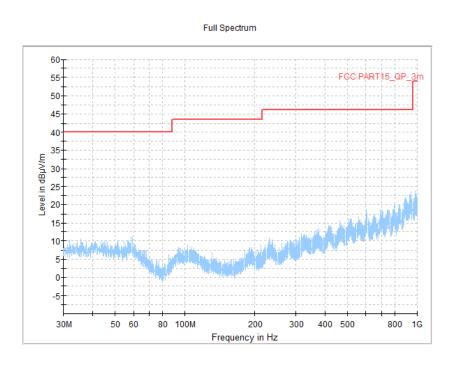


Figure A-3 Transmit State (30M-1G)

A.3.6. Measurement Uncertainty

Measurement uncertainty: *U* =4.84 dB, *k*=2

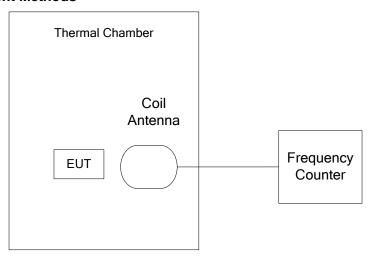


A.4. Frequency Tolerance

A.4.1. Reference

See CFR 47 § 15.225(e)

A.4.2. Measurement Methods



The transmitter output signal was picked up by coil antenna connected to the frequency counter. The center frequency was measured with 30Hz RBW and 1kHz span.

During the test, the EUT was placed in a thermal chamber until thermal balance and lasting appropriate time.

A.4.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of without modulation (See 3.5). EUT had been not connected to a travel adapter.

Operation Temperature: T min, T nom, and T max with V nom.

Operation Voltage: V min and V max with T nom.

A.4.4. Test Layouts

See A.4.2.

A.4.5. Limits

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency.

A.4.6. Measurement Results

Measurement results see Table A-1 for different test conditions.

Conclusions: PASS.



Table A-1: Frequency Stability VS Temperature and Voltage

Temperature Voltage		Frequency Error (MHz)			
		Startup	2 Min Later	5 Min Later	10 Min Later
T min	V nom	13.559836	13.559834	13.559835	13.559836
T max	V nom	13.559854	13.559852	13.559851	13.559852
T nom	V nom	13.559822	13.559821	13.559821	13.559823

Tomporatura	\/oltogo	/oltage Frequency Error (%)				
Temperature Voltag		Startup	2 Min Later	5 Min Later	10 Min Later	
T min	V nom	0.002	0.002	0.002	0.002	
T max	V nom	0.002	0.002	0.002	0.002	
T nom	V nom	0.002	0.002	0.002	0.002	

A.4.7. Measurement Uncertainty

Measurement uncertainty: U = 77 Hz, k = 2



A.5. 20dB Bandwidth

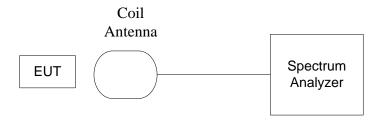
A.5.1. Reference

See CFR 47 § 15.215(c)

A.5.2. Measurement Methods

The transmitter output signal was picked up by coil antenna to the spectrum analyzer.

The transmitter output signal was picked up by coil antenna connected to the spectrum analyzer. The bandwidth of the center frequency was measured with 100Hz RBW, 300Hz VBW and 10kHz span.



A.5.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC and without modulation (See 3.5).

EUT had been not connected to a travel adapter.

During the measurements, the ambient temperature is in the range of $15 \sim 25^{\circ}$ C.

A.5.4. Test Layouts

See A.5.2.

A.5.5. Limits

The 20dB bandwidth shall be less than 80% of the permitted frequency band. For 13.56 MHz NFC, the permitted frequency band is 10 kHz, so the limit is 11.2 kHz.

A.5.6. Measurement Results

Measurement results see Figure A-4.

Conclusions: PASS.



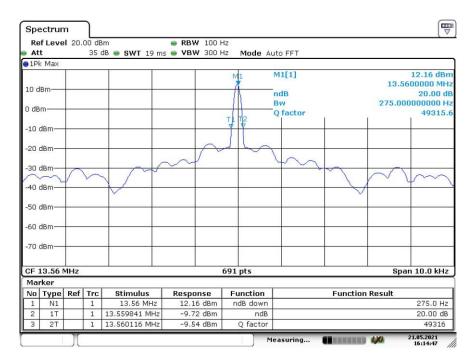


Figure A-4 20dB Bandwidth

A.5.7. Measurement Uncertainty

Measurement uncertainty: U = 77 Hz, k = 2



A.6. Conducted emission

A.6.1. Reference

See CFR 47 § 15.207

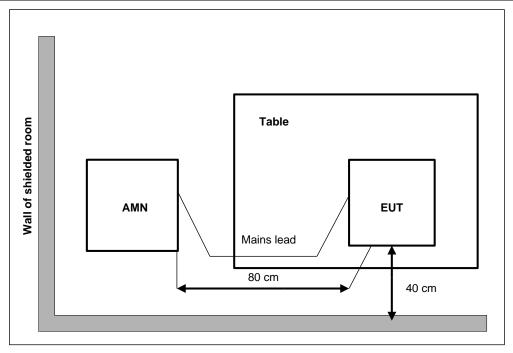
A.6.2. Measurement Methods

The conducted emissions from the AC port of the EUT are measured in a shielding room. The EUT is connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection was performed. The measurements were performed with a quasi-peak detector and if required, an average detector.

The conducted emission measurements were made with the following detector of the test receiver: Quasi-Peak / Average Detector.

The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/VBW
0.15-30	9kHz



A.6.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC (See 3.5).

The EUT is powered by a travel adapter.

During the measurements, the ambient temperature is in the range of $15 \sim 25^{\circ}$ C.



A.6.4. Limits

Frequency range(MHz) Quasi-peak Limit (dB _µ V)		Average Limit (dBμV)
0.15 to 0.5	66 to 56	56 to 46
0.5 to 5	56	46
5 to 30	60	50

A.6.5. Measurement Results

Measurement results see Figure A-5 and Figure A-6.

Conclusions: PASS.

Note: The measurement result at 13.56MHz is the fundamental emission of NFC signal.



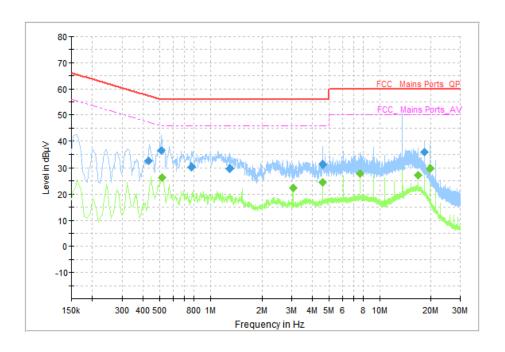


Figure A-5 Conducted Emission (Traffic)-AE4,AE5,AE6

Measurement Results: Quasi Peak

Frequency	QuasiPeak	Limit	Margin	Line	Filter	Corr.
(MHz)	(dBµV)	(dBµV)	(dB)	Lille	Filler	(dB)
0.430000	32.35	57.25	24.90	N	ON	10
0.514000	36.28	56.00	19.72	N	ON	10
0.774000	30.26	56.00	25.74	N	ON	10
1.306000	29.68	56.00	26.32	N	ON	10
4.578000	31.16	56.00	24.84	N	ON	10
18.322000	35.72	60.00	24.28	N	ON	10

Measurement Results: Average

Frequency	Average	Limit	Margin	Line	Line Filter	Corr.
(MHz)	(dBµV)	(dBµV)	(dB)			(dB)
0.518000	26.45	46.00	19.55	N	ON	10
3.054000	22.42	46.00	23.58	N	ON	10
4.578000	24.49	46.00	21.51	N	ON	10
7.634000	27.95	50.00	22.05	N	ON	10
16.794000	27.38	50.00	22.62	N	ON	10
19.846000	29.74	50.00	20.26	N	ON	10



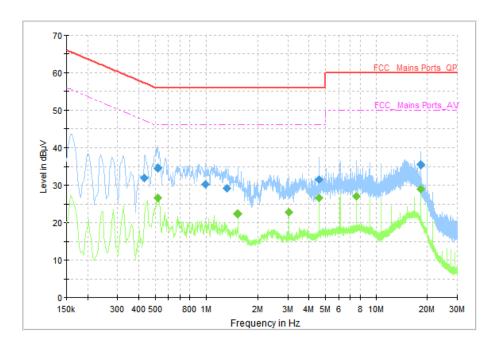


Figure A-6 Conducted Emission (Idle)-AE4,AE5,AE6

Measurement Results: Quasi Peak

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.430000	32.08	57.25	25.17	N	ON	10
0.518000	34.62	56.00	21.38	N	ON	10
0.994000	30.27	56.00	25.73	N	ON	10
1.326000	29.15	56.00	26.85	N	ON	10
4.582000	31.58	56.00	24.42	N	ON	10
18.326000	35.39	60.00	24.61	N	ON	10

Measurement Results: Average

Frequency	Average	Limit	Margin	Line	Filter	Corr.
(MHz)	(dBµV)	(dBµV)	(dB)			(dB)
0.518000	26.63	46.00	19.37	N	ON	10
1.526000	22.49	46.00	23.51	N	ON	10
3.054000	22.94	46.00	23.06	N	ON	10
4.582000	26.58	46.00	19.42	N	ON	10
7.634000	27.09	50.00	22.91	N	ON	10
18.326000	28.97	50.00	21.03	N	ON	10

A.6.6. Measurement Uncertainty

Measurement uncertainty: U = 3.0 dB, k=2

END OF REPORT