FCC Test Report

APPLICANT	:	**Guangdong OPPO Mobile Telecommunications Corp., Ltd.**
EQUIPMENT	:	**Mobile Phone**
BRAND NAME	:	**OPPO**
MODEL NAME	:	**CPH2135**
FCC ID	:	**R9C-CPH2135**
STANDARD	:	**47 CFR Part 15 Subpart B**
CLASSIFICATION	:	**Certification**

The product was received on Jun. 12, 2020 and testing was completed on Jun. 20, 2020. We, Sporton International (ShenZhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 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

Approved by: Eric Shih / Manager

ACCREDITED Cert #5145.01

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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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC061210	Rev. 01	Initial issue of report	Aug. 10, 2020

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	Under limit 12.60 dB at 0.460 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 6.73 dB at 49.400 MHz

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.

1. General Description

1.1. Applicant

Guangdong OPPO Mobile Telecommunications Corp., Ltd.
NO.18 HaiBin Road, Wusha Village, Chang An Town, DongGuan City,GuangDong,China

1.2. Manufacturer

Guangdong OPPO Mobile Telecommunications Corp., Ltd.
NO.18 HaiBin Road, Wusha Village, Chang An Town, DongGuan City,GuangDong,China

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	OPPO
Model Name	CPH2135
FCC ID	R9C-CPH2135
EUT supports Radios application	GSM/WCDMA/LTE/NFC WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR / EDR / LE FM Receiver / GNSS
IMEI Code	Conduction: 867522050019533/867522050019525 Radiation: 867522050019558/867522050019541
HW Version	11
SW Version	ColorOS V7.2
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.

1.4. Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band IV : 1712.4 MHz ~ 1752.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 12 : 699.7 MHz ~ 715.3 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz LTE Band 26 : 814.7 MHz ~ 848.3 MHz LTE Band 38 : 2572.5 MHz ~ 2617.5 MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC : 13.56 MHz
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band IV : 2112.4 MHz ~ 2152.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 7 : 2622.5 MHz ~ 2687.5 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 26 : 859.7 MHz ~ 893.3 MHz LTE Band 38: 2572.5 MHz ~ 2617.5 MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GNSS : 1559 MHz ~ 1610 MHz NFC : 13.56 MHz FM : 88 MHz ~ 108 MHz
Antenna Type	WWAN : PIFA Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna GNSS: PIFA Antenna NFC : Loop Antenna FM : External Earphone Antenna

Type of Modulation	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA : BPSK (Uplink) HSDPA/DC-HSDPA : QPSK (Uplink) HSUPA : QPSK (Uplink) HSPA+ : 16QAM (16QAM uplink is not supported) DC-HSDPA : 64QAM LTE: QPSK / 16QAM / 64QAM / 256QAM (Downlink only) 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n/ac : OFDM (BPSK / QPSK / 16QAM / 64QAM /256QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : π/4-DQPSK Bluetooth (3Mbps) : 8-DPSK GNSS : BPSK NFC: ASK FM: FM

Note : GNSS = GLONASS + GPS + BDS + Galileo

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		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	CO01-SZ	CN1256	421272

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		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH03-SZ	CN1256	421272

1.7. Test Software

Item	Site	Manufacture	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 B
- ANSI C63.4-2014

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

2. Test Configuration of Equipment Under Test

2.1. Test Mode

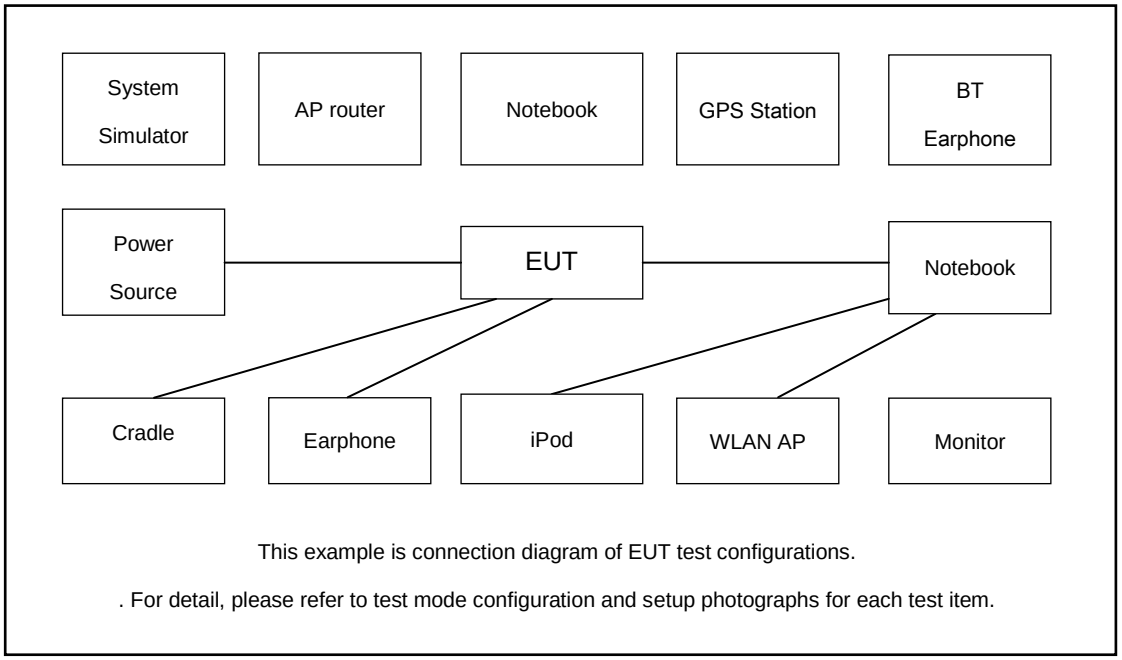
The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
AC Conducted Emission	Mode 1 : GSM 850 Idle(Middle CH) + Earphone + Battery 1 + Camera(Rear) + USB Cable(Charging from Adapter 1) + SD Card load + SIM 1
	Mode 2 : PCS 1900 Idle(Middle CH) + Earphone + Battery 1 + Camera(Front) + USB Cable(Charging from Adapter 1) + SD Card load + SIM 2
	Mode 3 : WCDMA Band V Idle(Low CH) + Earphone + Battery 1 + MPEG4(Colour bar) + USB Cable(Charging from Adapter 1) + SD Card Link + SIM 1
	Mode 4 : LTE Band 12 Idle(Low CH) + Earphone + Battery 1 + FM(98MHz) Rx + USB Cable(Charging from Adapter 1) + SD Card load + SIM 2
	Mode 5 : LTE Band 17 Idle(Middle CH) + Earphone + Battery 1 + H-Pattern + USB Cable(Data Link with Notebook) + SD Card Link + SIM 1
	Mode 6 : LTE Band 26 Idle(High CH) + Earphone + Battery 1 + FM(98MHz) Rx + USB Cable(Charging from Adapter 2) + SD Card load + SIM 1
	Mode 7 : LTE Band 12 Idle(Low CH) + Earphone + Battery 2 + FM(98MHz) Rx + USB Cable(Charging from Adapter 1) + SD Card load + SIM 2
	Mode 8 : LTE Band 12 Idle(Low CH) + Earphone + Battery 3 + FM(98MHz) Rx + USB Cable(Charging from Adapter 1) + SD Card load + SIM 2
	Mode 9 : LTE Band 12 Idle(Low CH) + Earphone + Battery 4 + FM(98MHz) Rx + USB Cable(Charging from Adapter 1) + SD Card load + SIM 2
	Mode 10 : LTE Band 12 Idle(Low CH) + Earphone + Battery 5 + FM(98MHz) Rx + USB Cable(Charging from Adapter 1) + SD Card load + SIM 2

Radiated Emissions	Mode 1: GSM 850 Idle(Middle CH) + Earphone + Battery 1 + Camera(Rear) + USB Cable(Charging from Adapter 1) + SD Card load + SIM 1 Mode 2: PCS 1900 Idle(Middle CH) + Earphone + Battery 1 + Camera(Front) + USB Cable(Charging from Adapter 1) + SD Card load + SIM 2 Mode 3: WCDMA Band V Idle(Low CH) + Earphone + Battery 1 + MPEG4(Colour bar) + USB Cable(Charging from Adapter 1) + SD Card Link + SIM 1 Mode 4: LTE Band 12 Idle(Low CH) + Earphone + Battery 1 + FM(98MHz) Rx + USB Cable(Charging from Adapter 1) + SD Card load + SIM 2 Mode 5: LTE Band 17 Idle(Middle CH) + Earphone + Battery 1 + H-Pattern + USB Cable(Data Link with Notebook) + SD Card Link + SIM 1 Mode 6: LTE Band 26 Idle(High CH) + Earphone + Battery 1 + FM(98MHz) Rx + USB Cable(Charging from Adapter 2) + SD Card load + SIM 1 Mode 7: GSM 850 Idle(Middle CH) + Earphone + Battery 2 + Camera(Rear) + USB Cable(Charging from Adapter 1) + SD Card load + SIM 1 Mode 8: GSM 850 Idle(Middle CH) + Earphone + Battery 3 + Camera(Rear) + USB Cable(Charging from Adapter 1) + SD Card load + SIM 1 Mode 9: GSM 850 Idle(Middle CH) + Earphone + Battery 4 + Camera(Rear) + USB Cable(Charging from Adapter 1) + SD Card load + SIM 1 Mode 10: GSM 850 Idle(Middle CH) + Earphone + Battery 5 + Camera(Rear) + USB Cable(Charging from Adapter 1) + SD Card load + SIM 1
Remark: **1.** The worst case of AC is mode 4; only the test data of this mode is reported. **2.** The worst case of RE is mode 10; only the test data of this mode is reported. **3.** Data Link with Notebook means data application transferred mode between EUT and Notebook. **4.** Pre-scanned Low/Middle/High channel, the worst channel was recorded in this report.	

2.2. Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application

2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	FM Station	R&S	SMB100A	N/A	N/A	Unshielded,1.8m
3.	WLAN AP	D-link	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
4.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,2.7m with Core
5.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	SD Card	N/A	MicroSD HC	FCC DoC		N/A
7.	SD Card	Kingston	3300-10000-078	Fcc DoC	N/A	N/A
8.	Earphone	apple	DCAY1V-A9007ZJ W3-000	N/A	N/A	N/A
9.	IPod	Apple	MC69029/A	N/A	N/A	N/A
10.	IPod	Apple	MC525 ZP/A	Fcc DoC	Shielded, 1.0m	N/A

2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA or LTE idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the WLAN AP, and the following programs installed in the EUT were programmed during the test.

1. Data application is transferred between notebook and EUT via USB cable.
2. Turn on camera to capture images.
3. Turn on MPEG4 function.
4. Turn on FM function to make the EUT receive continuous signals from FM station.

3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 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.

<Class B Limit>

Frequency of emission (MHz)	Conducted limit (dBuV)	
	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.

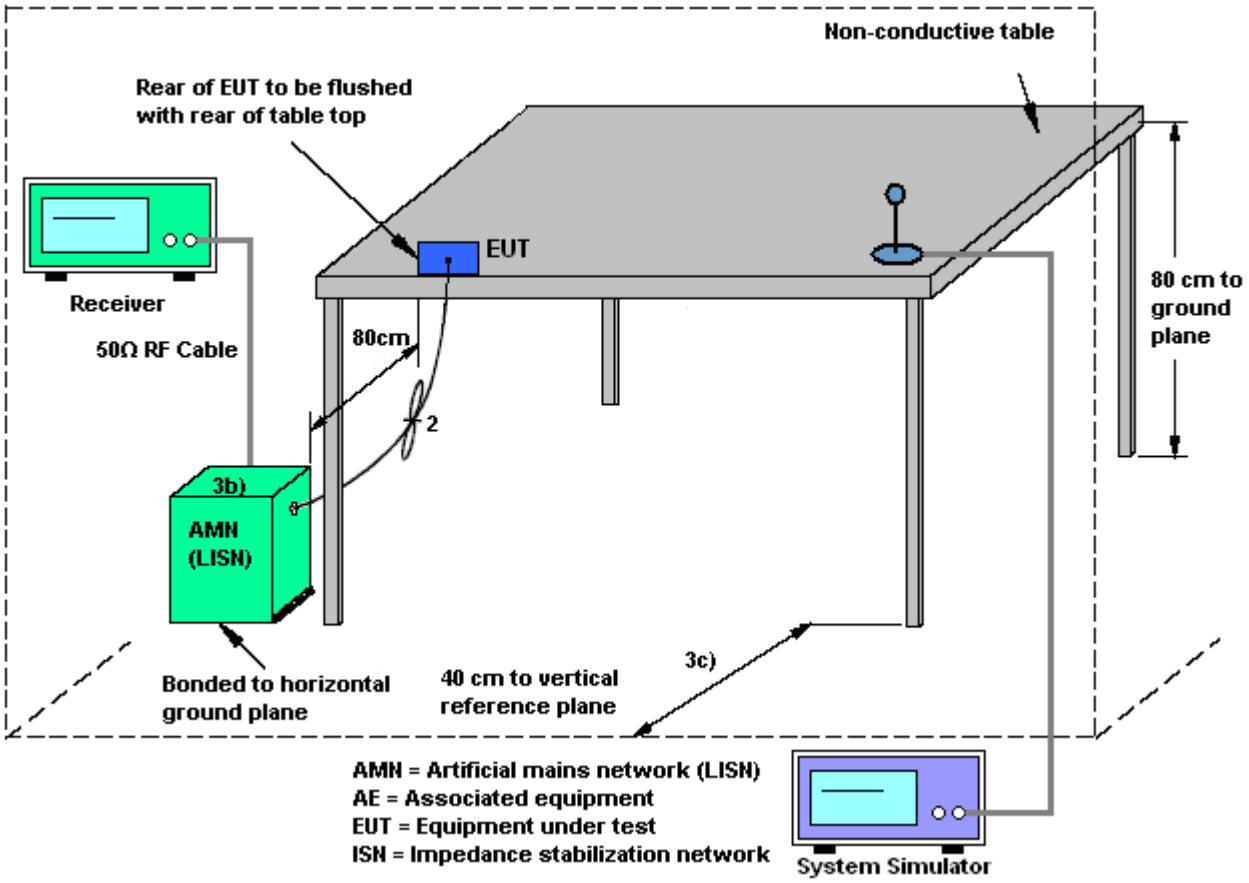
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

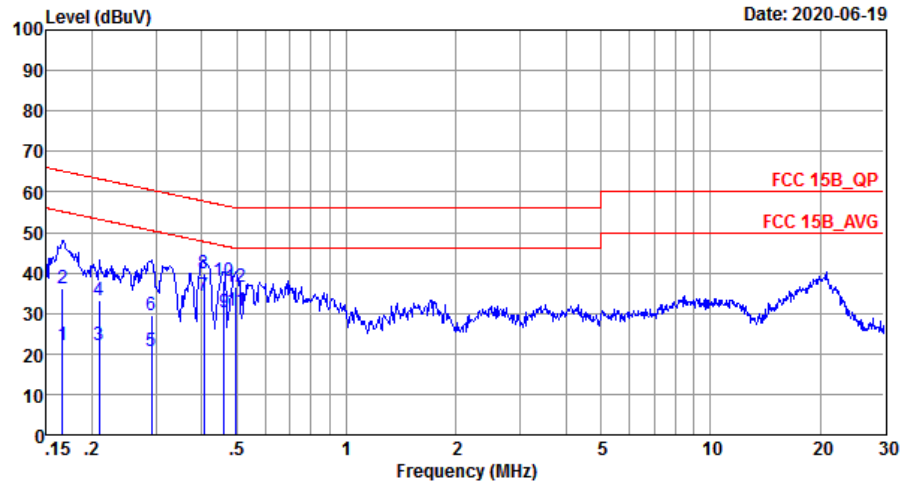
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.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

3.1.4 Test Setup



3.1.5 Test Result of AC Conducted Emission

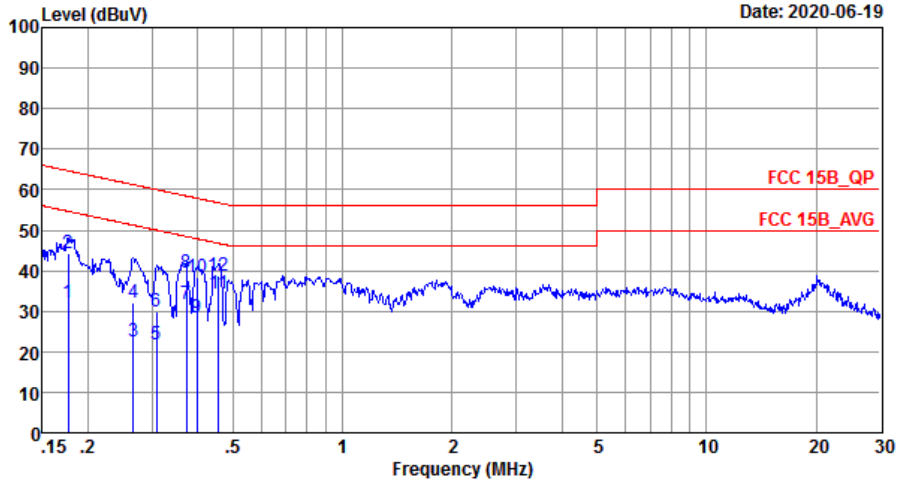
Test Engineer :	Liu DaLin	**Temperature :**	22~25℃
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
Condition: FCC 15B_QP LISN_20190719_L LINE

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.17	22.24	-32.92	55.16	12.20	0.03	10.01	Average
2		0.17	36.34	-28.82	65.16	26.30	0.03	10.01	QP
3		0.21	22.14	-31.09	53.23	12.10	0.03	10.01	Average
4		0.21	33.04	-30.19	63.23	23.00	0.03	10.01	QP
5		0.29	20.64	-29.86	50.50	10.60	0.03	10.01	Average
6		0.29	29.64	-30.86	60.50	19.60	0.03	10.01	QP
7	*	0.41	34.14	-13.59	47.73	24.10	0.03	10.01	Average
8		0.41	39.84	-17.89	57.73	29.80	0.03	10.01	QP
9		0.46	30.37	-16.30	46.67	20.31	0.02	10.04	Average
10		0.46	38.17	-18.50	56.67	28.11	0.02	10.04	QP
11		0.50	30.48	-15.57	46.05	20.40	0.02	10.06	Average
12		0.50	36.58	-19.47	56.05	26.50	0.02	10.06	QP

Test Engineer :	Liu DaLin	**Temperature :**	22~25℃
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
Condition: FCC 15B_QP LISN_20190719_N NEUTRAL

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.18	32.14	-22.50	54.64	22.10	0.03	10.01	Average
2		0.18	44.44	-20.20	64.64	34.40	0.03	10.01	QP
3		0.27	22.34	-28.91	51.25	12.30	0.03	10.01	Average
4		0.27	32.14	-29.11	61.25	22.10	0.03	10.01	QP
5		0.31	21.74	-28.28	50.02	11.70	0.03	10.01	Average
6		0.31	29.94	-30.08	60.02	19.90	0.03	10.01	QP
7		0.37	31.73	-16.70	48.43	21.70	0.02	10.01	Average
8		0.37	39.43	-19.00	58.43	29.40	0.02	10.01	QP
9		0.40	28.23	-19.67	47.90	18.20	0.02	10.01	Average
10		0.40	38.23	-19.67	57.90	28.20	0.02	10.01	QP
11	*	0.46	34.16	-12.60	46.76	24.10	0.02	10.04	Average
12		0.46	38.76	-18.00	56.76	28.70	0.02	10.04	QP

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)

3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

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

<Class B Limit>

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2. Measuring Instruments

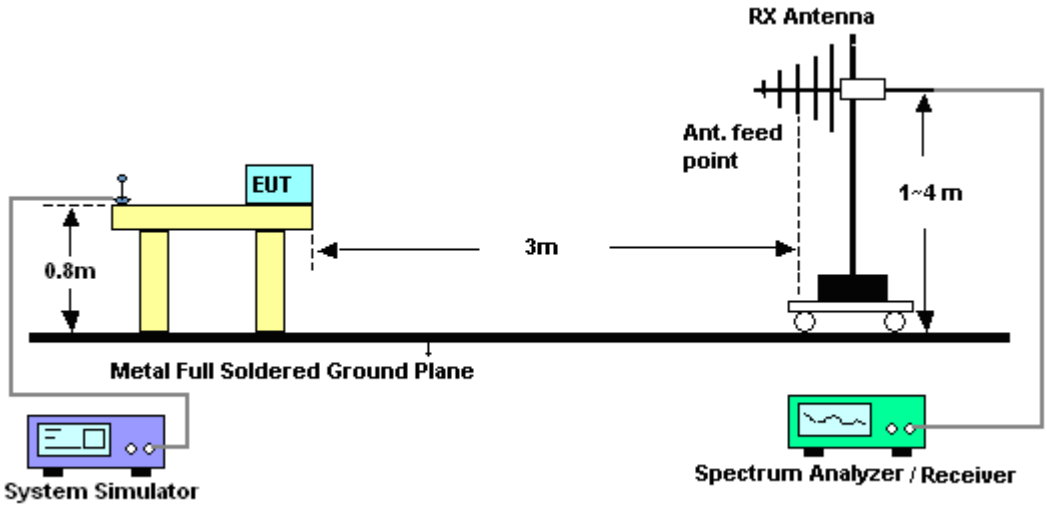
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

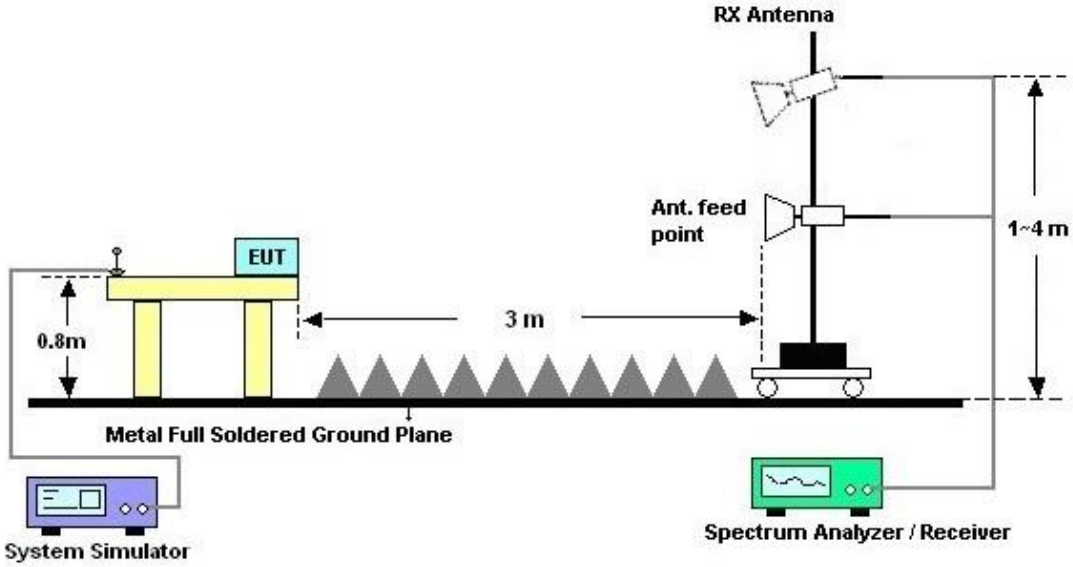
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dBμV/m) = 20 log Emission level (μV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

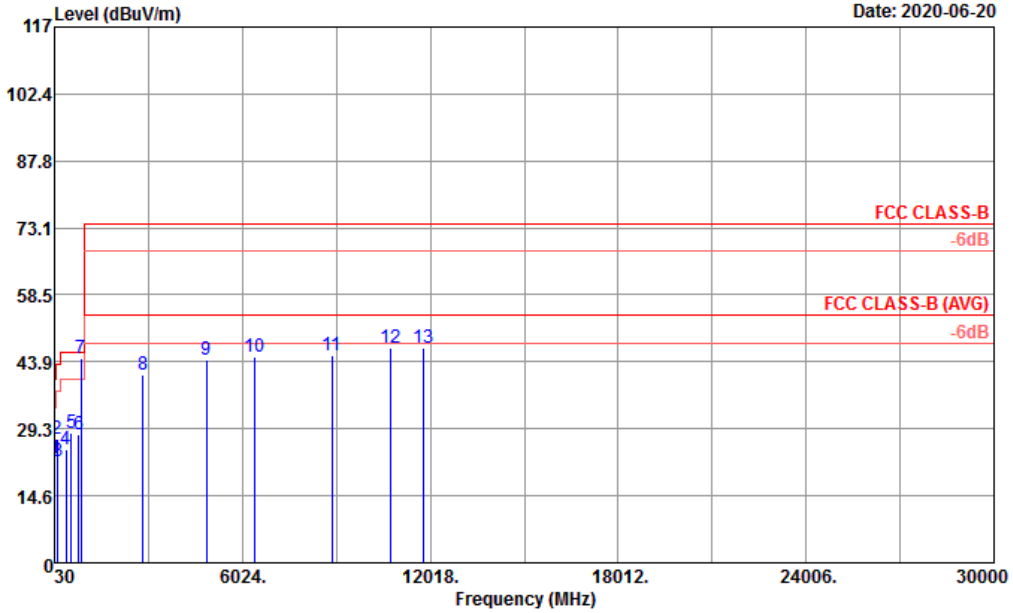


For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

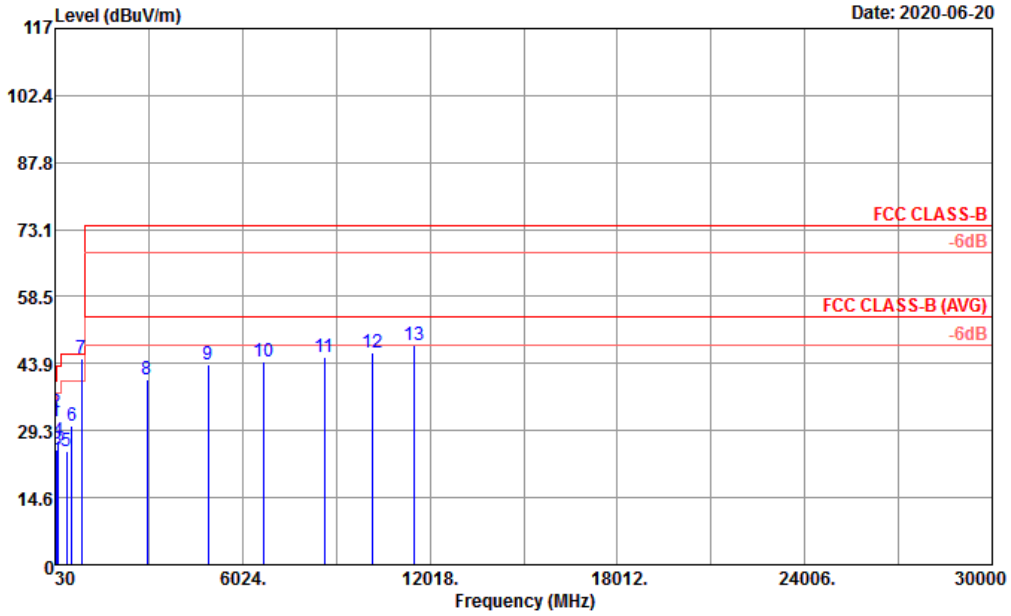
Test Engineer :	Zhongmin Zhang	**Temperature :**	24~25°C
		Relative Humidity :	48~49%
Test Distance :	3m	**Polarization :**	Horizontal
Remark :	#7 is system simulator signal which can be ignored.		



Site : 03CH03-SZ
Condition : FCC CLASS-B 3m LF_CBL6112D_37879_6 HORIZONTAL

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		30.00	22.86	-17.14	40.00	30.04	24.70	0.52	32.40	---	---	Peak
2		101.78	26.99	-16.51	43.50	41.02	17.20	0.97	32.20	158	92	Peak
3		141.55	22.05	-21.45	43.50	35.82	17.28	1.15	32.20	---	---	Peak
4		402.48	24.75	-21.25	46.00	32.47	21.75	1.93	31.40	---	---	Peak
5		573.20	28.33	-17.67	46.00	32.37	24.47	2.30	30.81	---	---	Peak
6		811.82	28.18	-17.82	46.00	30.53	26.23	2.74	31.32	---	---	Peak
7	!	881.66	44.78			46.94	26.44	2.86	31.46	---	---	Peak
8		2862.00	41.01	-32.99	74.00	64.22	28.27	5.91	57.39	---	---	Peak
9		4876.00	44.45	-29.55	74.00	62.20	31.17	8.60	57.52	---	---	Peak
10		6406.00	44.92	-29.08	74.00	59.79	33.44	9.78	58.09	---	---	Peak
11		8892.00	45.29	-28.71	74.00	55.45	37.96	10.90	59.02	---	---	Peak
12		10764.00	47.01	-26.99	74.00	53.49	40.31	11.77	58.56	---	---	Peak
13		11778.00	47.06	-26.94	74.00	52.04	40.32	12.14	57.44	170	41	Peak

Test Engineer :	Zhongmin Zhang	Temperature :	24~25°C
		Relative Humidity :	48~49%
Test Distance :	3m	Polarization :	Vertical
Remark :	#7 is system simulator signal which can be ignored.		



Site : 03CH03-SZ
Condition : FCC CLASS-B 3m LF_CBL6112D_37879_6 VERTICAL

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.94	31.21	-8.79	40.00	39.41	23.66	0.54	32.40	---	---	Peak
2	49.40	33.27	-6.73	40.00	50.03	14.95	0.69	32.40	100	55	Peak
3	100.81	25.19	-18.31	43.50	39.28	17.15	0.96	32.20	---	---	Peak
4	140.58	27.20	-16.30	43.50	40.92	17.34	1.14	32.20	---	---	Peak
5	388.90	24.65	-21.35	46.00	32.80	21.43	1.89	31.47	---	---	Peak
6	558.65	30.18	-15.82	46.00	34.47	24.30	2.27	30.86	---	---	Peak
7 !	881.66	44.94			47.10	26.44	2.86	31.46	---	---	Peak
8	2980.00	40.53	-33.47	74.00	62.78	28.52	6.55	57.32	---	---	Peak
9	4922.00	43.81	-30.19	74.00	61.50	31.22	8.64	57.55	---	---	Peak
10	6686.00	44.44	-29.56	74.00	58.93	33.97	9.95	58.41	---	---	Peak
11	8640.00	45.35	-28.65	74.00	55.91	37.66	10.85	59.07	---	---	Peak
12	10156.00	46.12	-27.88	74.00	54.17	39.60	11.56	59.21	---	---	Peak
13	11490.00	47.94	-26.06	74.00	52.48	41.18	12.04	57.76	103	62	Peak

Note:

1. Level(dBμV/m) = Read Level(dBμV) + Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Factor(dB)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 17, 2020	Jun. 20, 2020	Apr. 16, 2021	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 17, 2020	Jun. 20, 2020	Apr. 16, 2021	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Apr. 17, 2020	Jun. 20, 2020	Apr. 16, 2021	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 01 2020	Jun. 20, 2020	Mar. 31, 2021	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 17, 2020	Jun. 20, 2020	Apr. 16, 2021	Radiation (03CH03-SZ)
LF Amplifier	Burgeon	BPA-530	102210	0.01Hz ~3000MHz	Oct. 18, 2019	Jun. 20, 2020	Oct. 17, 2020	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 18, 2019	Jun. 20, 2020	Oct. 17, 2020	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 22, 2019	Jun. 20, 2020	Jul. 21, 2020	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	6160100019985	N/A	NCR	Jun. 20, 2020	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jun. 20, 2020	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jun. 20, 2020	NCR	Radiation (03CH03-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Dec. 26, 2018	Jun. 19, 2020	Dec. 25, 2020	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Oct. 17, 2019	Jun. 19, 2020	Oct. 16, 2020	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 17, 2019	Jun. 19, 2020	Oct. 16, 2020	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 23, 2019	Jun. 19, 2020	Jul. 22, 2020	Conduction (CO01-SZ)

NCR: No Calibration Required

5. Uncertainty of Evaluation

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

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

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

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

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

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