

TEST REPORT

Application No: HR/2020/B0007
Applicant: Honor Device Co., Ltd.
Address of Applicant: Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
Manufacturer: Honor Device Co., Ltd.
Address of Manufacturer: Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
EUT Description: Smart Phone
Model No.: CHL-LX1
Trade Mark: HONOR
FCC ID: 2AYGCCHL-LX1
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2020/12/9
Date of Test: 2020/12/9 to 2020/12/31
Date of Issue: 2020/12/31

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Derek Yang

Wireless Laboratory Manager

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<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2020/12/31		Original

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Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower

Checked By

David Chen

David Chen
Reviewer

Test By

Daniel Wang

Daniel Wang
Project Engineer

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1 General Information

Product Name:	Smart Phone		
Model No.(EUT):	CHL-LX1		
Trade Mark:	HONOR		
Hardware Version:	HL3CHLM		
Software Version:	5.0.1.69(C900E12R1P2)		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	WCDMA Band II	1850~1910	1930~1990
	WCDMA Band V	824~849	869~894
	LTE Band 7	2500~2570	2620~2690
	Wi-Fi 2.4G	2400~2483.5	2400~2483.5
	Bluetooth	2400~2483.5	2400~2483.5
	Wi-Fi 5G	5150~5850	5150~5850
	NFC	13.56	
	FM	87~108	
GNSS(GPS+Glonass + Beidou)	1599~1610		

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Accessory:

Adapter No.	Model No.	SN	Specification
1	HW-100400U01	\	Input:100V-240V 50/60Hz 0.5A output :5V/2A,9V/2A,10V/4A(MAX)
2	HW-100400E01	\	Input:100V-240V 50/60Hz 0.5A output :5V/2A,9V/2A,10V/4A(MAX)
3	HW-100400B01	\	Input:100V-240V 50/60Hz 0.5A output :5V/2A,9V/2A,10V/4A(MAX)
4	HW-100400A01	\	Input:100V-240V 50/60Hz 0.5A output :5V/2A,9V/2A,10V/4A(MAX)
5	HW-100400U02	\	Input:100V-240V 50/60Hz 0.5A output :5V/2A,9V/2A,10V/4A(MAX)
6	HW-100400E02	\	Input:100V-240V 50/60Hz 0.5A output :5V/2A,9V/2A,10V/4A(MAX)
7	HW-100400B02	\	Input:100V-240V 50/60Hz 0.5A output :5V/2A,9V/2A,10V/4A(MAX)
8	HW-100400A02	\	Input:100V-240V 50/60Hz 0.5A output :5V/2A,9V/2A,10V/4A(MAX)

Battery No.	Model No.	Manufacturer
1	HB446589EFW	Honor Device Co., Ltd. (Manufacturer: Sunwoda)
2	HB446589EFW	Honor Device Co., Ltd. (Manufacturer: Desay)
3	HB446589EFW	Honor Device Co., Ltd. (Manufacturer: SCUD)

Cable No.	USB-A to USB-C	Model No.	Manufacturer
1	USB Cable	WA0046	NingBo Broad Telecommunication Co., Ltd.
2	USB Cable	AU2-CHO006HF	Freeport Resources Enterprises Corp.
3	USB Cable	213-00989-0	MING JI ELECTRONICS CO., LTD.
4	USB Cable	L99UC138-CS-H	LUXSHARE PRECISION INDUSTRY CO., LTD.

Earphone No.	Model No.	Manufacturer
1	MEND1532B528A11	Jiangxi Lianchuang Hongsheng Electronic Co., LTD.
2	1293-3283-3.5mm-339	BOLUO COUNTY QUANCHENG ELECTRONIC CO.,LTD.
3	EPAB542-2WH05-DH	FOXCONN INTERCONNECT TECHNOLOGY LIMITED

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1.1 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	T430u	REF. No.SEA1800
Mouse	Lenovo	M-U0025-O	REF. No.:SEA2400
Router	NETGEAR	DGN2200	REF. No.SEA2200

1.2 Test Location

All tests were performed at:

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1st Floor, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi, China
Post code:	710086

No tests were sub-contracted.

1.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 4854.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

Test Site No. :	SGS Xian Site No.		FCC Designation No.
	CO01-XA	03CH01-XA	CN1271

1.4 Deviation from Standards

None

1.5 Abnormalities from Standard Conditions

None

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2 Emission Test Results

2.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	150kHz to 30MHz
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

2.1.1 E.U.T. Operation

Operating Environment:

Temperature: 18.9 °C Humidity: 55.1 % RH Atmospheric Pressure: 1000 mbar

Pretest these modes to find the worst case:

- a: Transfer data between the EUT1(battery1) and the PC+USB cable1
- b: Transfer data between the EUT1(battery1) and the PC+USB cable2
- c: Transfer data between the EUT1(battery1) and the PC+USB cable3
- d: Transfer data between the EUT1(battery1) and the PC+USB cable4
- e: GSM 850 Idle+EUT1(battery1) +BT+2.4G WLAN + NFC +GPS Rx + playing MP4 (SD card) +earphone1 + Cable(worst)+adapter1
- f: WCDMA Band V Idle+ EUT1(battery1) +BT+ 5G WLAN + NFC +GPS Rx+ FM +earphone2 + Cable(worst)+adapter5
- g: LTE Band 7 Idle+ EUT1(battery1) + BT+ 2.4G WLAN + NFC +GPS Rx+ camera (Back) +earphone3 + Cable(worst)+adapter(worst)
- h: GSM1900 Idle+ EUT1(battery1) +BT+5G WLAN + NFC +GPS Rx+ camera (Front) +earphone3 + Cable(worst)+adapter(worst)
- i: GSM 850 Idle+EUT2(battery2) +BT+2.4G WLAN + NFC +GPS Rx + playing MP4 (SD card) +earphone1 + Cable(worst)+adapter1
- j: GSM 850 Idle+EUT3(battery3) +BT+2.4G WLAN + NFC +GPS Rx + playing MP4 (SD card) +earphone1 + Cable(worst)+adapter1

The worst case for final test: e: GSM 850 Idle+EUT1(battery1) +BT+2.4G WLAN + NFC +GPS Rx + playing MP4 (SD card) +earphone1 + Cable(worst)+adapter1

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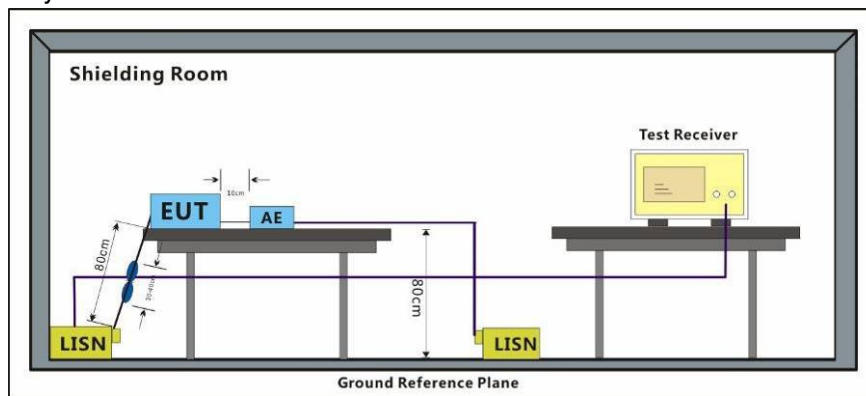
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2.1.2 Test Setup Procedures

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.



2.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

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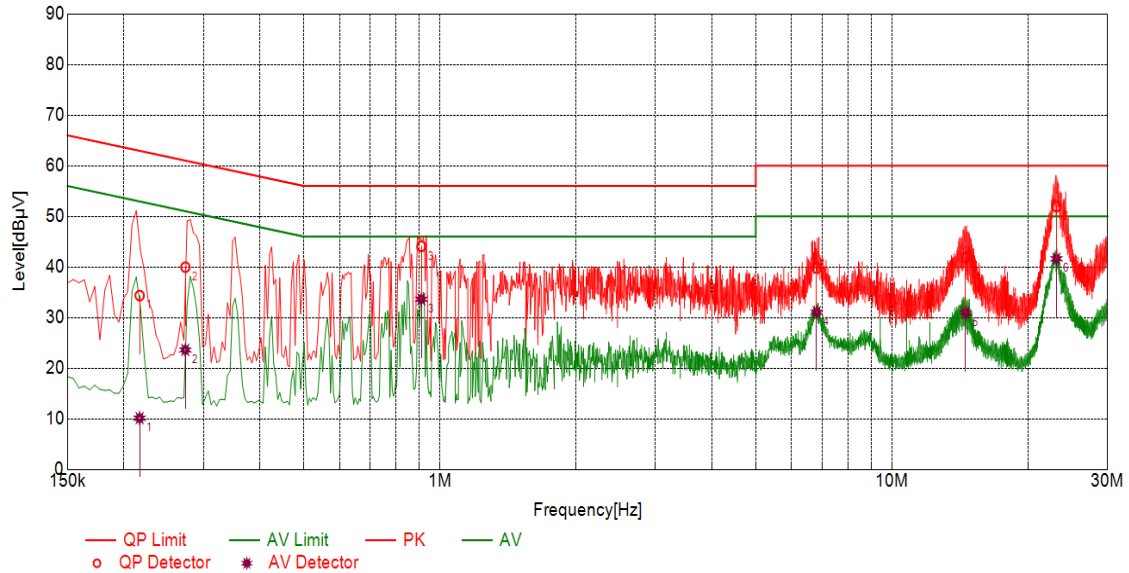
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Mode:e; Line:Live Line



Test Graph

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.2167	10.10	34.35	62.94	28.59	10.13	52.94	42.81	L
2	0.2735	10.10	39.96	61.01	21.05	23.60	51.01	27.41	L
3	0.9100	10.10	44.07	56.00	11.93	33.63	46.00	12.37	L
4	6.8176	10.10	39.80	60.00	20.20	31.05	50.00	18.95	L
5	14.5651	10.11	41.89	60.00	18.11	30.92	50.00	19.08	L
6	23.1336	10.11	51.95	60.00	8.05	41.63	50.00	8.37	L

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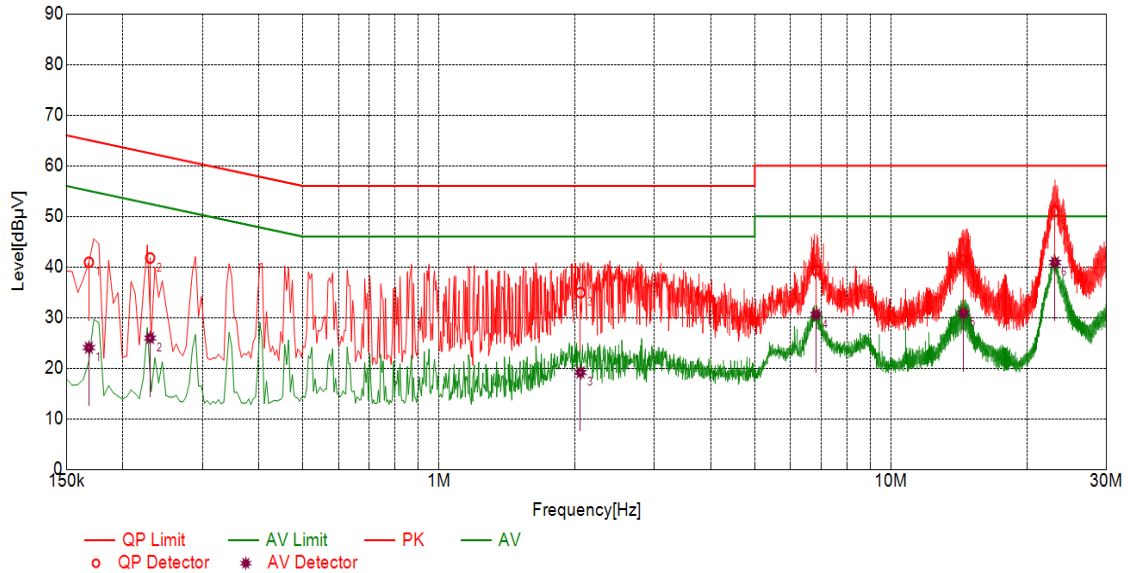
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邮编 710086 sgs.china@sgs.com

Mode:c; Line:Neutral Line



Test Graph

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1682	10.10	40.93	65.05	24.12	24.06	55.05	30.99	N
2	0.2298	10.10	41.77	62.46	20.69	25.96	52.46	26.50	N
3	2.0578	10.10	34.92	56.00	21.08	19.17	46.00	26.83	N
4	6.8351	10.10	39.33	60.00	20.67	30.62	50.00	19.38	N
5	14.4780	10.11	41.33	60.00	18.67	30.87	50.00	19.13	N
6	23.0743	10.11	51.08	60.00	8.92	40.89	50.00	9.11	N

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2.2 Radiated Emissions (30MHz-1GHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m
Limit:	
30MHz -88MHz	40.0(dBμV/m) quasi-peak
88MHz-216MHz	43.5(dBμV/m) quasi-peak
216MHz-960MHz	46.0(dBμV/m) quasi-peak
960MHz-1000MHz	54.0(dBμV/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

2.1.4 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 66.5 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

- a: Transfer data between the EUT1(battery1) and the PC+USB cable1
- b: Transfer data between the EUT1(battery1) and the PC+USB cable2
- c: Transfer data between the EUT1(battery1) and the PC+USB cable3
- d: Transfer data between the EUT1(battery1) and the PC+USB cable4
- e: GSM 850 Idle+EUT1(battery1) +BT+2.4G WLAN + NFC +GPS Rx + playing MP4 (SD card) +earphone1 + Cable(worst)+adapter1
- f: WCDMA Band V Idle+ EUT1(battery1) +BT+ 5G WLAN + NFC +GPS Rx+ FM +earphone2 + Cable(worst)+adapter5
- g: LTE Band 7 Idle+ EUT1(battery1) + BT+ 2.4G WLAN + NFC +GPS Rx+ camera (Back) +earphone3 + Cable(worst)+adapter(worst)
- h: GSM1900 Idle+ EUT1(battery1) +BT+5G WLAN + NFC +GPS Rx+ camera (Front) +earphone3 + Cable(worst)+adapter(worst)
- i: GSM 850 Idle+EUT2(battery2) +BT+2.4G WLAN + NFC +GPS Rx + playing MP4 (SD card) +earphone1 + Cable(worst)+adapter1
- j: GSM 850 Idle+EUT3(battery3) +BT+2.4G WLAN + NFC +GPS Rx + playing MP4 (SD card) +earphone1 + Cable(worst)+adapter1

The worst case for final test:

- a: Transfer data between the EUT and the PC+USB cable1

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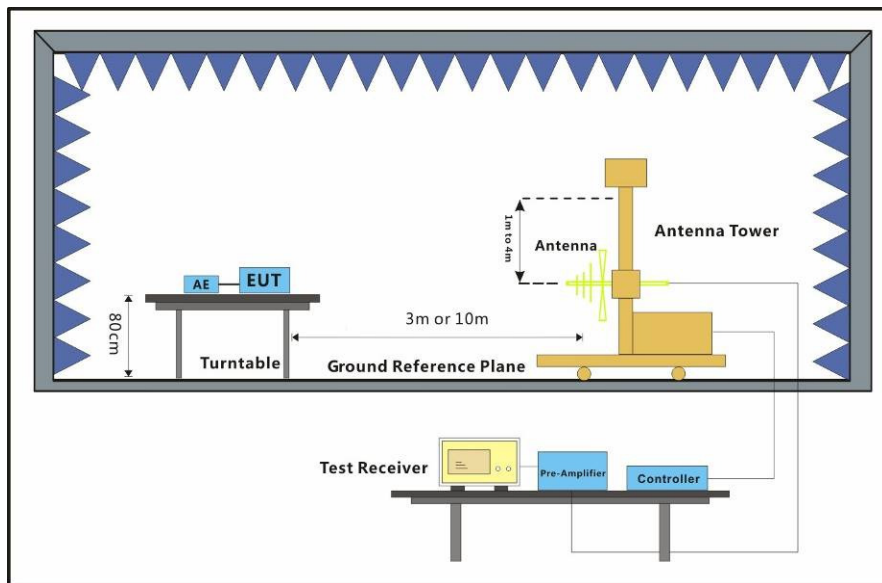
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邮编 710086 sgs.china@sgs.com

2.1.5 Test Setup Procedures

1. The EUT was placed in a semi Anechoic Chamber as show below
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 height is adjusted between 1 to 4 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 with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.
7. If the emission level of the EUT in peak mode was 6 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.



2.1.6 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

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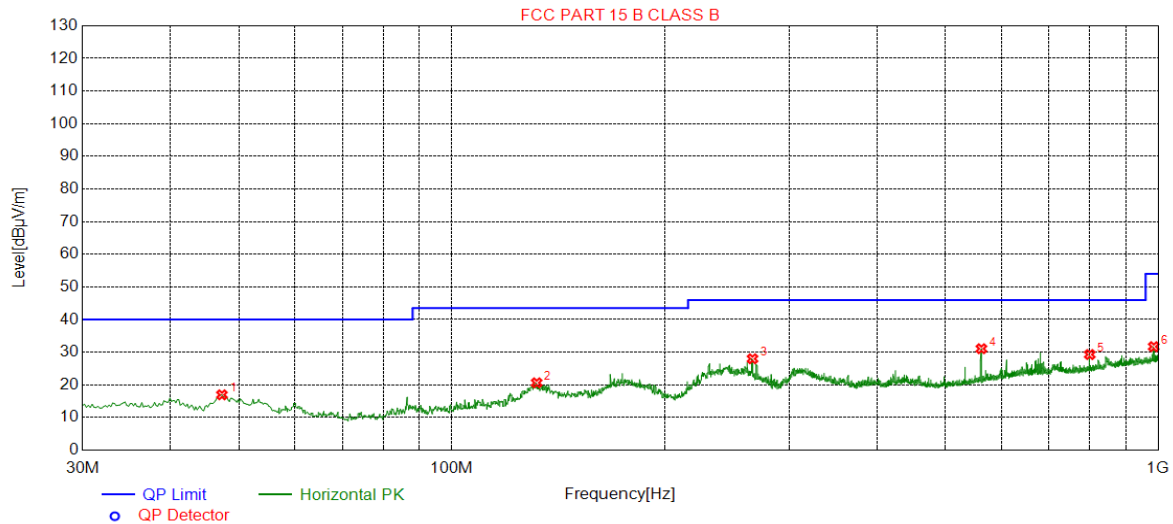
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Mode:a; Polarization:Horizontal



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.2695	16.96	40.00	23.04	200	122	Horizontal
2	131.8704	20.64	43.50	22.86	200	34	Horizontal
3	266.5333	28.00	46.00	18.00	200	22	Horizontal
4	562.0544	31.08	46.00	14.92	200	28	Horizontal
5	800.1400	29.30	46.00	16.70	200	14	Horizontal
6	985.6411	31.72	54.00	22.28	100	273	Horizontal

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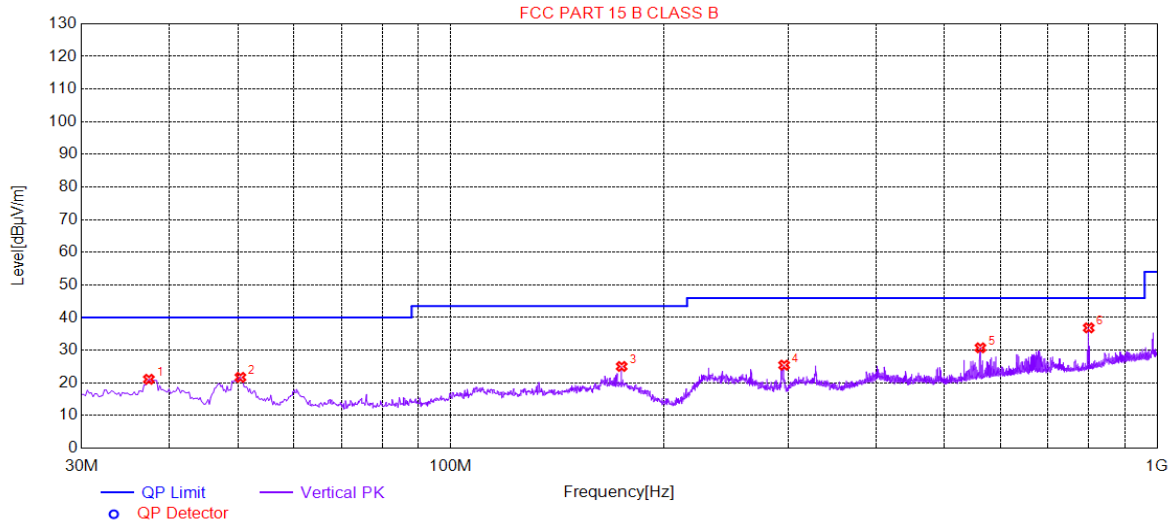
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邮编 710086 sgs.china@sgs.com

Mode:a; Polarization:Vertical



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.3735	21.11	40.00	18.89	100	350	Vertical
2	50.3741	21.70	40.00	18.30	100	69	Vertical
3	174.5589	25.04	43.50	18.46	200	346	Vertical
4	296.4153	25.44	46.00	20.56	200	346	Vertical
5	562.0544	30.75	46.00	15.25	100	321	Vertical
6	800.1400	36.86	46.00	9.14	100	17	Vertical

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邮编 710086 sgs.china@sgs.com

2.3 Radiated Emissions (above 1GHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	Above 1GHz
Measurement Distance:	3m
Limit:	
Above 1GHz	74(dBμV/m) peak, 54(dBμV/m) average
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

2.1.7 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C Humidity: 56.4 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

- a: Transfer data between the EUT1(battery1) and the PC+USB cable1
- b: Transfer data between the EUT1(battery1) and the PC+USB cable2
- c: Transfer data between the EUT1(battery1) and the PC+USB cable3
- d: Transfer data between the EUT1(battery1) and the PC+USB cable4
- e: GSM 850 Idle+EUT1(battery1) +BT+2.4G WLAN + NFC +GPS Rx + playing MP4 (SD card) +earphone1 + Cable(worst)+adapter1
- f: WCDMA Band V Idle+ EUT1(battery1) +BT+ 5G WLAN + NFC +GPS Rx+ FM +earphone2 + Cable(worst)+adapter5
- g: LTE Band 7 Idle+ EUT1(battery1) + BT+ 2.4G WLAN + NFC +GPS Rx+ camera (Back) +earphone3 + Cable(worst)+adapter(worst)
- h: GSM1900 Idle+ EUT1(battery1) +BT+5G WLAN + NFC +GPS Rx+ camera (Front) +earphone3 + Cable(worst)+adapter(worst)
- i: GSM 850 Idle+EUT2(battery2) +BT+2.4G WLAN + NFC +GPS Rx + playing MP4 (SD card) +earphone1 + Cable(worst)+adapter1
- j: GSM 850 Idle+EUT3(battery3) +BT+2.4G WLAN + NFC +GPS Rx + playing MP4 (SD card) +earphone1 + Cable(worst)+adapter1

The worst case for final test: e: GSM 850 Idle+EUT1(battery1) +BT+2.4G WLAN + NFC +GPS Rx + playing MP4 (SD card) +earphone1 + Cable(worst)+adapter1

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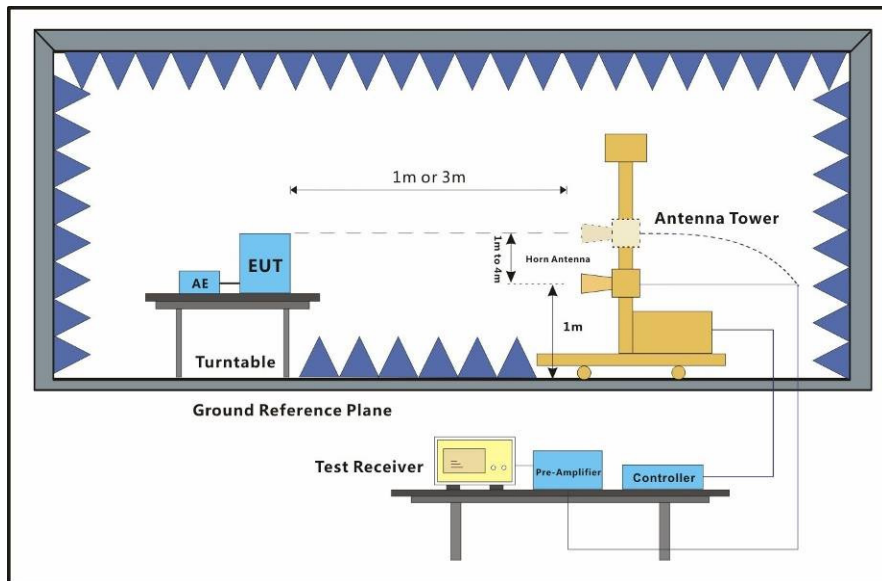
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邮编 710086 sgs.china@sgs.com

2.1.8 Test Setup Procedures

1. The EUT was placed in a full Anechoic Chamber as show below
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 height is adjusted between 1 to 4 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 and AV Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.



2.1.9 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

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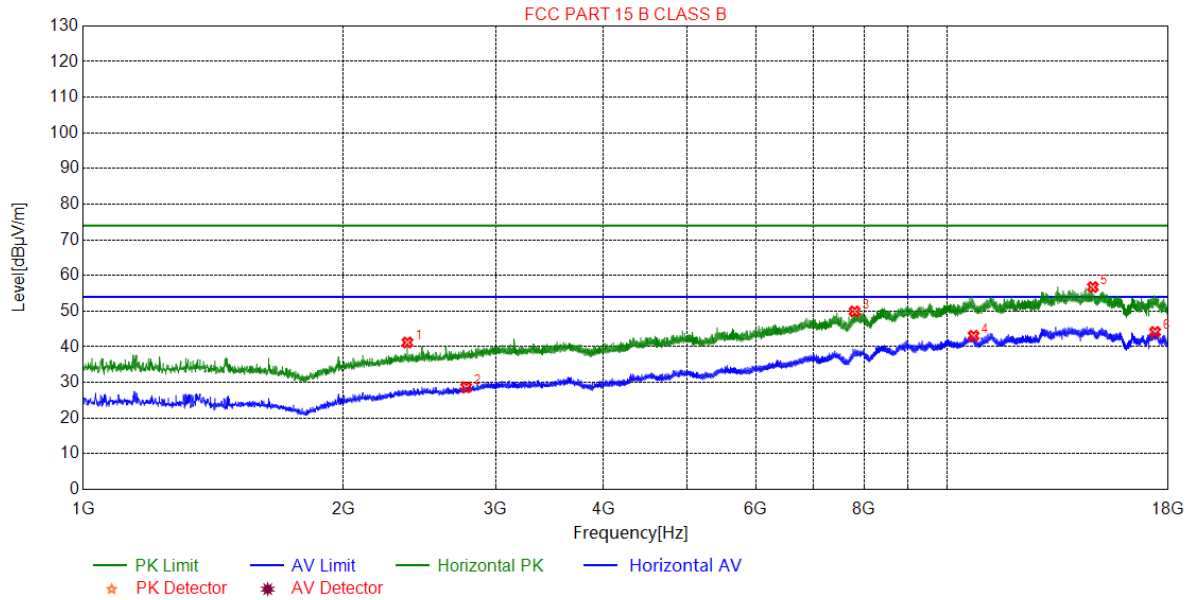
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Mode:e; Polarization:Horizontal



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2371.968	41.23	74.00	32.77	100	301	Horizontal
2	2774.038	28.67	54.00	25.33	100	20	Horizontal
3	7806.290	49.92	74.00	24.08	200	276	Horizontal
4	10716.83	43.09	54.00	10.91	100	193	Horizontal
5	14724.78	56.76	74.00	17.24	100	42	Horizontal
6	17376.91	44.18	54.00	9.82	200	59	Horizontal

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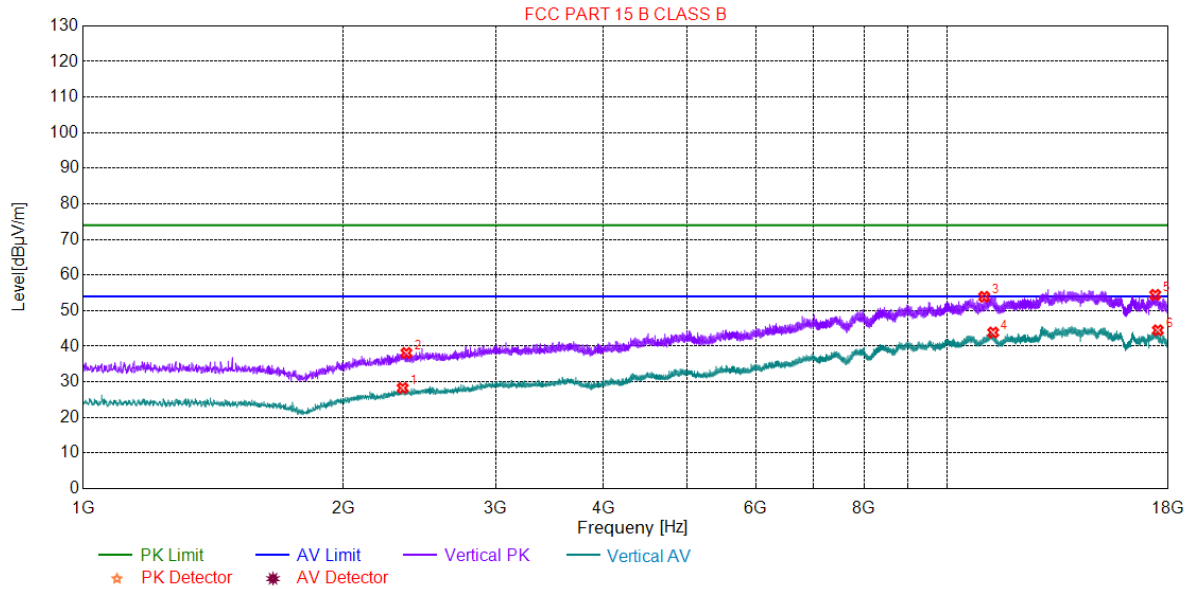
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Mode:e; Polarization:Vertical



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2342.217	28.27	54.00	25.73	200	80	Vertical
2	2366.018	38.12	74.00	35.88	200	338	Vertical
3	11024.55	53.91	74.00	20.09	200	145	Vertical
4	11289.76	43.86	54.00	10.14	200	16	Vertical
5	17384.56	54.46	74.00	19.54	100	150	Vertical
6	17506.12	44.50	54.00	9.50	100	194	Vertical

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3 Equipment List

Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Semi-Anechoic Chamber	Brilliant-emc	966	XAW03-35-01	NCR	NCR
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020/4/2	2021/4/2
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020/4/2	2021/4/2
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Receiving antenna	Rosenberger	VULB 9163	XAW01-09-01	2019/10/13	2021/10/12
Receiving antenna	Rosenberger	BBHA 9120D	XAW01-09-02	2019/10/13	2021/10/12
Receiving antenna	Rosenberger	BBHA 9170	XAW01-09-03	2019/10/13	2021/10/12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2020/11/18	2021/11/18
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2020/11/18	2021/11/18
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2020/12/3	2021/12/3
Amplifier	Brilliant-emc	YX28980930	XAW01-41-06	2020/11/18	2021/11/18
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-19-02	2020/9/16	2021/9/15

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1/ F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, 710086 www.sgsgroup.com.cn
Xi'an, Shaanxi, China

中国西安沣东新城科源三路137号康鸿橙方科技园1号楼D单元一层

邮编 710086 sgs.china@sgs.com

4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.4dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (30MHz-1GHz)
		± 5.2dB (1GHz-6GHz)
		± 5.5dB (6GHz-18GHz)
		± 5.02dB (18GHz-40GHz)

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中国西安沣东新城科源三路137号康鸿橙方科技园1号楼D单元一层

邮编 710086 sgs.china@sgs.com



5 Photographs

5.1 Test Setup

Refer to Appendix A - Photographs of Set-Up for HR/2020/B0007.

5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -

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Xi'an, Shaanxi, China

中国西安沣东新城科源三路137号康鸿橙方科技园1号楼D单元一层

邮编 710086 sgs.china@sgs.com