


# TEST REPORT

**Application No.:** AR/2020/C0002  
**Applicant:** Xiaomi Communications Co., Ltd.  
**Address of Applicant:** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**Manufacturer:** Xiaomi Communications Co., Ltd.  
**Address of Manufacturer:** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**EUT Description:** Mobile Phone  
**Model No.:** M2101K9G  
**Trade Mark:** XIAOMI  
**FCC ID:** 2AFZZK9G  
**Standard(s) :** 47 CFR Part 15, Subpart B  
**Date of Receipt:** 2020/12/21  
**Date of Test:** 2020/12/21 to 2021/1/18  
**Date of Issue:** 2021/4/30

<b>Test Result:</b>	<b>Pass*</b>
---------------------	--------------

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Simon Ling



Wireless Laboratory Manager



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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1层 邮编: 710086

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021/1/19		Original
02		2021/4/30	Leah Chen	1.Modify data conversion error of antenna height 2.Update equipment list

\*This report supersedes our previous report AR/2020/C000206, issued on 2021-1-19, which is hereby deemed null and void.

Authorized for issue by:	
Prepared By	 (Leah Chen) / Engineer
Checked By	 (Daniel Wang) /Reviewer



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SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.  
Wireless Laboratory

11/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi'an, Shaanxi, China 710086  
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1层 邮编: 710086

t (86-29) 6282 7885 www.sgsgroup.com.cn  
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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



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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11层 邮编: 710086

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## 1 General Information

Product Name:	Mobile Phone		
Model No.(EUT):	M2101K9G		
Trade Mark:	XIAOMI		
Hardware Version:	P2		
Software Version:	MIUI 12		
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 IV	1710~1755	2110~2155
	WCDMA Band V	824~849	869~894
	LTE Band 2	1850~1910	1930~1990
	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869~894
	LTE Band 7	2500~2570	2620~2690
	LTE Band 12	699~716	729~746
	LTE Band 13	777~787	746~756
	LTE Band 17	704~716	734~746
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	LTE Band 66	1710~1780	2110~2200
	LTE CA_2C	1850 ~ 1910	1930 ~1990
	LTE CA_7C	2500~2570	2620~2690
	LTE CA_38C	2570~2620	2570~2620
	LTE CA_4A-7A	1710~1755 2500~2570	2110~2155 2620~2690
	NR Band n5	824~849	869~894
	NR Band n7	2500~2570	2620~2690
	NR Band n38	2570~2620	2570~2620
	NR Band n41	2496~2690	2496~2690
	NR Band n66	1710~1780	2110~2180
	NR Band n77	3700~3980	3700~3980
	Wi-Fi 2.4G	2400~2483.5	2400~2483.5
	Bluetooth	2400~2483.5	2400~2483.5
	Wi-Fi 5G	5150~5850	5150~5850
	GNSS*	1559~1610	
	NFC	13.56	

\* GNSS = GPS + Glonass + Beidou + Galileo+SBAS  
EUT 1=8+128G EUT 2= 6+128G EUT3=8+256G



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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:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086
Test engineer:	Ben Huang, Leah Chen

## 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 and the PC+USB cable1
- b: Transfer data between the EUT1 and the PC+USB cable2
- c: GSM 850 Idle+ BT+ 2.4G WLAN +GPS Rx+ NFC +playing MP4+ earphone1+ EUT1+ Cable(worst)+ adapter
- d: WCDMA Band V Idle+ BT+ 5G WLAN +GPS Rx+ NFC +playing MP4 + EUT1+ Cable(worst)+ adapter
- e: LTE Band 5 Idle+BT+2.4G WLAN +GPS Rx+ NFC +camera (Front) + EUT1+ Cable(worst)+ adapter
- f: LTE Band 12 Idle+ BT+ 5G WLAN +GPS Rx+ NFC +camera (Front) + EUT1+ Cable(worst)+ adapter
- g: LTE Band 13 Idle+ BT+ 5G WLAN +GPS Rx+ NFC +camera (Back) + EUT1+ Cable(worst)+ adapter
- h: LTE Band 17 Idle+ BT+2.4G WLAN +GPS Rx+ NFC+ camera (Back) + EUT1+ Cable(worst)+ adapter
- i: NR Band n5 Idle+ BT+5G WLAN +GPS Rx+ NFC+ camera (Back) + EUT2+ Cable(worst)+ adapter
- j: NR Band n66 Idle+ BT+5G WLAN +GPS Rx+ NFC+ playing MP4 + EUT3+ Cable(worst)+ adapter
- k: WCDMA Band V Idle+ BT+ 5G WLAN +GPS Rx+ NFC +playing MP4 + EUT1+Audio cable+earphone
- d: WCDMA Band V Idle+ BT+ 5G WLAN +GPS Rx+ NFC +playing MP4 + EUT1+ Cable2+ adapter

The worst case  
for final test:

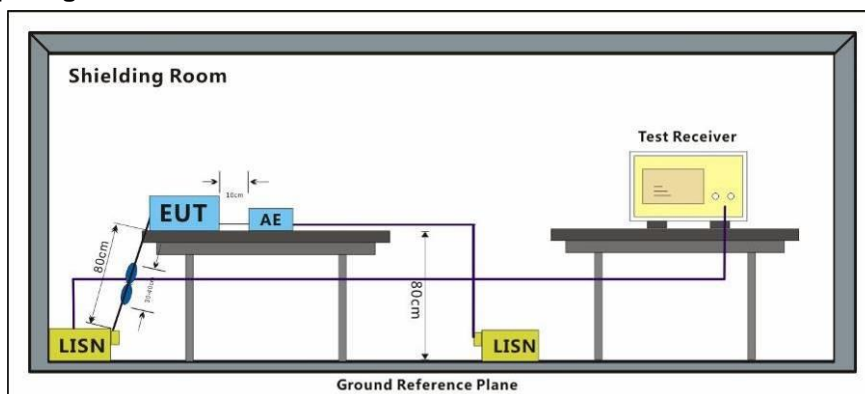


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### 2.1.2 Test Setup Diagram

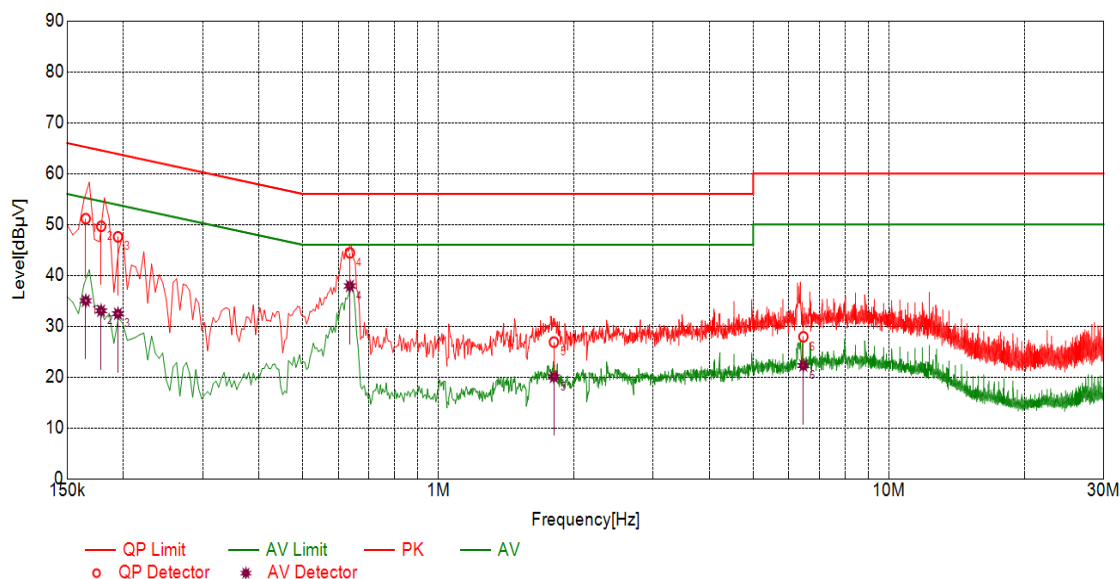


### 2.1.3 Measurement Data

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.



Mode:d; 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]
1	0.1650	10.10	51.14	65.21	14.07	35.00	55.21	20.21
2	0.1785	10.10	49.64	64.56	14.92	33.03	54.56	21.53
3	0.1945	10.10	47.57	63.84	16.27	32.45	53.84	21.39
4	0.6366	10.10	44.41	56.00	11.59	37.92	46.00	8.08
5	1.8046	10.10	26.88	56.00	29.12	20.03	46.00	25.97
6	6.4598	10.10	27.92	60.00	32.08	22.26	50.00	27.74

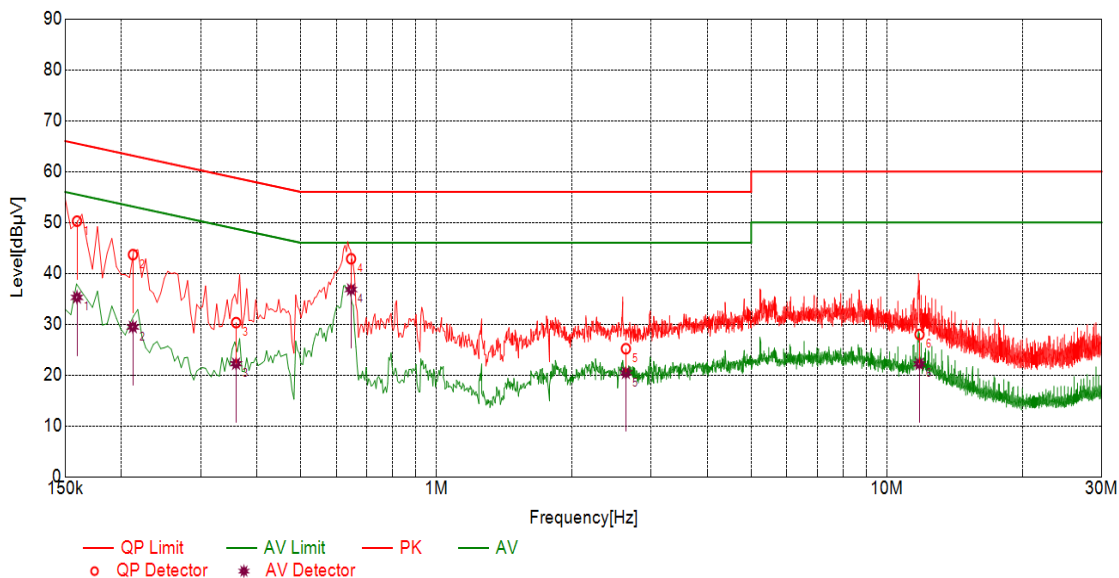


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Mode:d; Line:Neutral Line



### 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]
1	0.1594	10.10	50.25	65.49	15.24	35.27	55.49	20.22
2	0.2121	10.10	43.68	63.12	19.44	29.45	53.12	23.67
3	0.3594	10.10	30.31	58.74	28.43	22.23	48.74	26.51
4	0.6468	10.10	42.86	56.00	13.14	36.82	46.00	9.18
5	2.6350	10.10	25.18	56.00	30.82	20.44	46.00	25.56
6	11.8160	10.10	27.99	60.00	32.01	22.20	50.00	27.80



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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

### 2.2.1 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 and the PC+USB cable1
- b: Transfer data between the EUT1 and the PC+USB cable2
- c: GSM 850 Idle+ BT+ 2.4G WLAN +GPS Rx+ NFC +playing MP4+ earphone1+ EUT1+ Cable(worst)+ adapter
- d: WCDMA Band V Idle+ BT+ 5G WLAN +GPS Rx+ NFC +playing MP4 + EUT1+ Cable(worst)+ adapter
- e: LTE Band 5 Idle+BT+2.4G WLAN +GPS Rx+ NFC +camera (Front) + EUT1+ Cable(worst)+ adapter
- f: LTE Band 12 Idle+ BT+ 5G WLAN +GPS Rx+ NFC +camera (Front) + EUT1+ Cable(worst)+ adapter
- g: LTE Band 13 Idle+ BT+ 5G WLAN +GPS Rx+ NFC +camera (Back) + EUT1+ Cable(worst)+ adapter
- h: LTE Band 17 Idle+ BT+2.4G WLAN +GPS Rx+ NFC+ camera (Back) + EUT1+ Cable(worst)+ adapter
- i: NR Band n5 Idle+ BT+5G WLAN +GPS Rx+ NFC+ camera (Back) + EUT2+ Cable(worst)+ adapter
- j: NR Band n66 Idle+ BT+5G WLAN +GPS Rx+ NFC+ playing MP4 + EUT3+ Cable(worst)+ adapter
- k: NR Band n38 Idle+ BT+5G WLAN +GPS Rx+ NFC+ playing MP4 + EUT1+ Cable(worst)+ adapter
- l: Transfer data between the EUT2 and the PC+USB cable2
- m: Transfer data between the EUT3 and the PC+USB cable2

The worst case for final test:

- b: Transfer data between the EUT1 and the PC+USB cable2

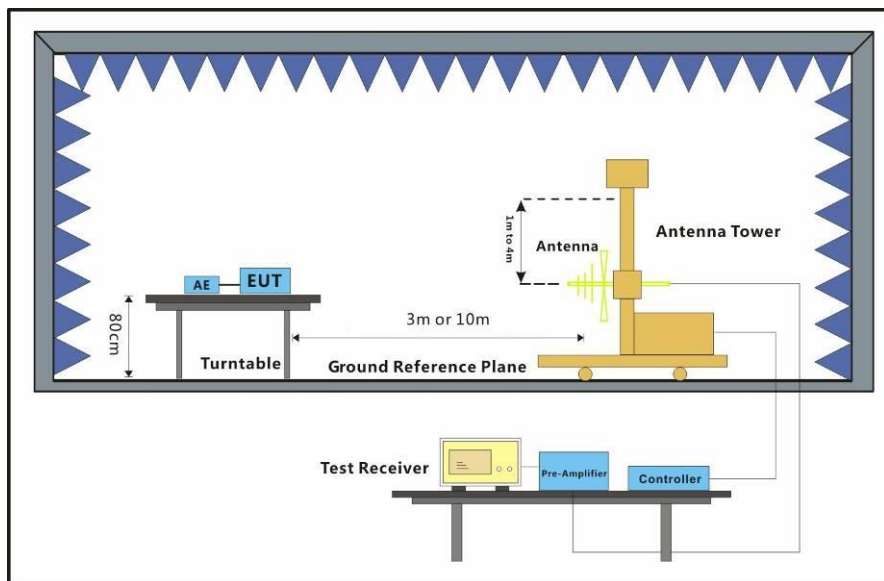


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t (86-29) 6282 7885 sgs.china@sgs.com

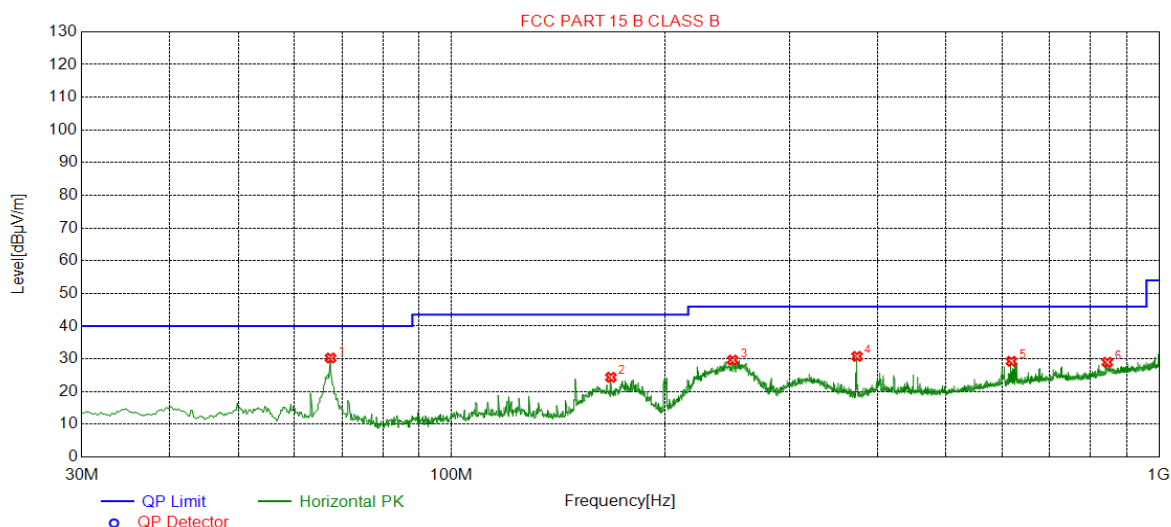
### 2.2.2 Test Setup Diagram



### 2.2.3 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.

Mode:b; Polarization:Horizontal



## Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	67.4495	30.27	40.00	9.73	191	25	Horizontal
2	167.9616	24.38	43.50	19.12	102	51	Horizontal
3	249.6519	29.62	46.00	16.38	158	37	Horizontal
4	374.2248	30.78	46.00	15.22	141	19	Horizontal
5	618.5197	29.27	46.00	16.73	130	54	Horizontal
6	844.9630	28.97	46.00	17.03	243	151	Horizontal



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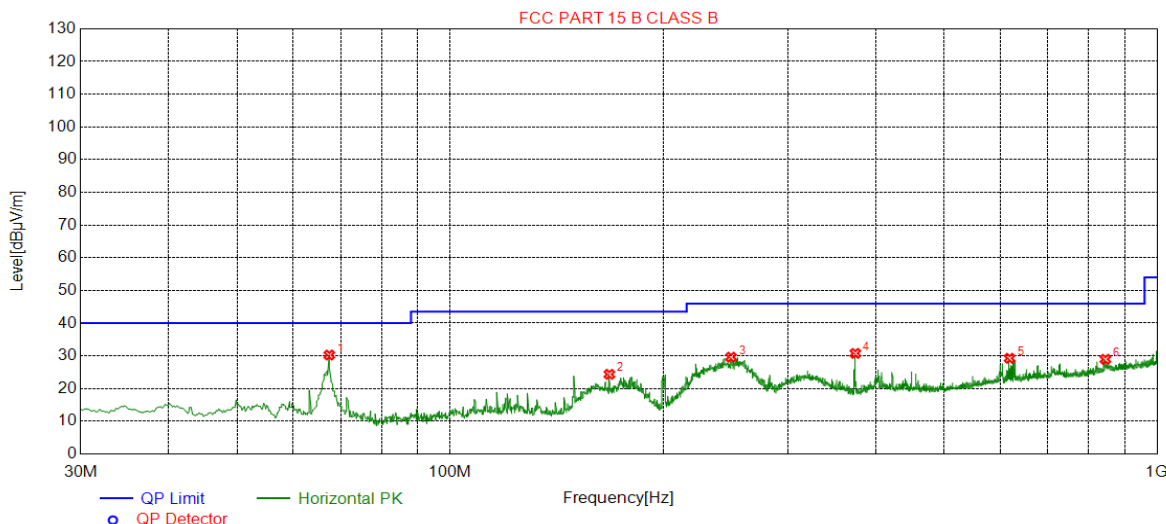
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Wireless Laboratory

1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi'an, Shaanxi, China 710086  
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1层 邮编: 710086

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Mode:b; Polarization:Vertical



### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	67.4495	30.27	40.00	9.73	191	25	Horizontal
2	167.9616	24.38	43.50	19.12	102	51	Horizontal
3	249.6519	29.62	46.00	16.38	158	37	Horizontal
4	374.2248	30.78	46.00	15.22	141	19	Horizontal
5	618.5197	29.27	46.00	16.73	130	54	Horizontal
6	844.9630	28.97	46.00	17.03	243	151	Horizontal



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## 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 to 18000MHz

### 2.3.1 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 and the PC+USB cable1
- b: Transfer data between the EUT1 and the PC+USB cable2
- c: GSM 850 Idle+ BT+ 2.4G WLAN +GPS Rx+ NFC +playing MP4+ earphone1+ EUT1+ Cable(worst)+ adapter
- d: WCDMA Band V Idle+ BT+ 5G WLAN +GPS Rx+ NFC +playing MP4 + EUT1+ Cable(worst)+ adapter
- e: LTE Band 5 Idle+BT+2.4G WLAN +GPS Rx+ NFC +camera (Front) + EUT1+ Cable(worst)+ adapter
- f: LTE Band 12 Idle+ BT+ 5G WLAN +GPS Rx+ NFC +camera (Front) + EUT1+ Cable(worst)+ adapter
- g: LTE Band 13 Idle+ BT+ 5G WLAN +GPS Rx+ NFC +camera (Back) + EUT1+ Cable(worst)+ adapter
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- i: NR Band n5 Idle+ BT+5G WLAN +GPS Rx+ NFC+ camera (Back) + EUT2+ Cable(worst)+ adapter
- j: NR Band n66 Idle+ BT+5G WLAN +GPS Rx+ NFC+ playing MP4 + EUT3+ Cable(worst)+ adapter
- k: NR Band n38 Idle+ BT+5G WLAN +GPS Rx+ NFC+ playing MP4 + EUT1+ Cable(worst)+ adapter

The worst case for final test: e: LTE Band 5 Idle+BT+2.4G WLAN +GPS Rx+ NFC +camera (Front) + EUT1+ Cable2+ adapter

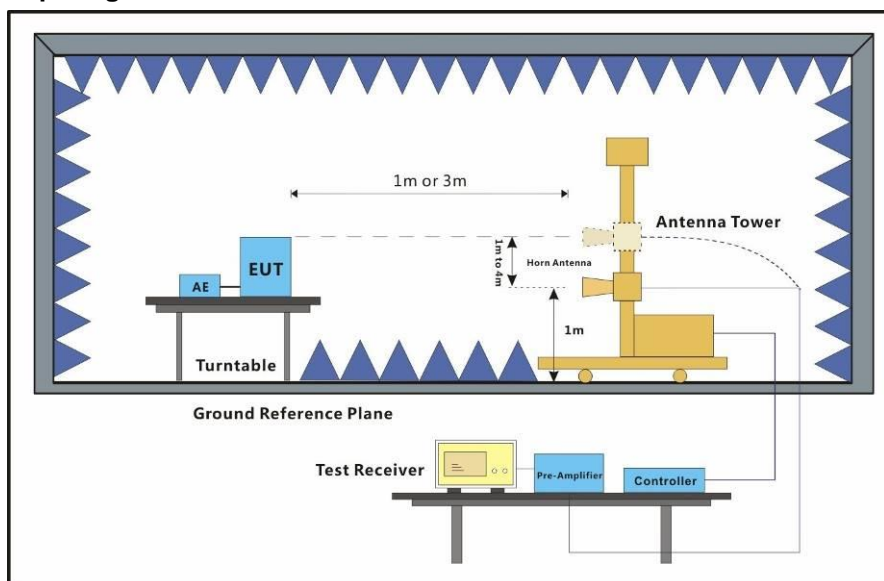


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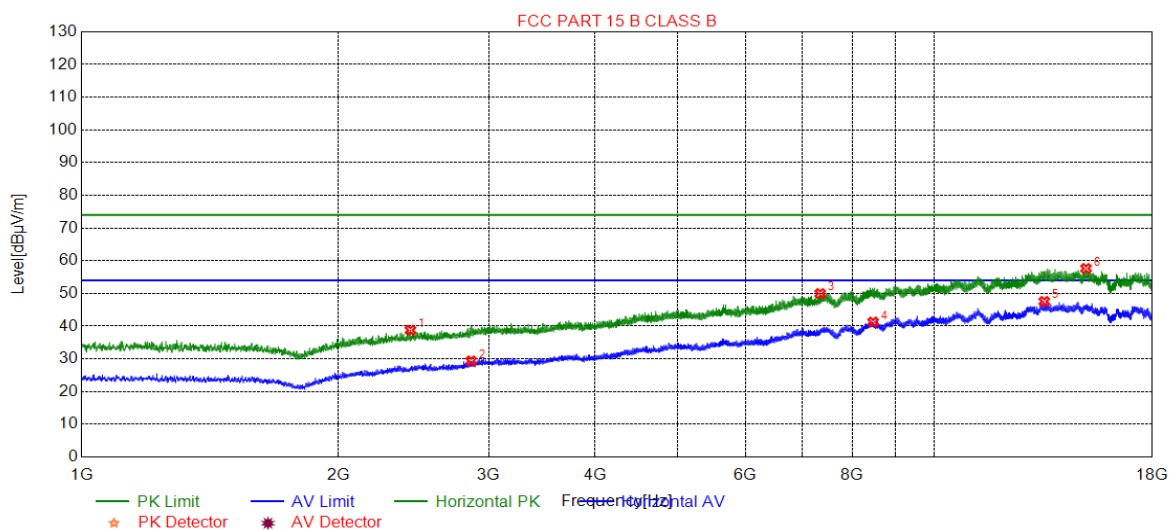
## 2.3.2 Test Setup Diagram



## 2.3.3 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.

Mode:e; Polarization:Horizontal



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2428.921	38.79	74.00	35.21	107	102	Horizontal
2	2861.593	29.38	54.00	24.62	227	37	Horizontal
3	7342.167	49.98	74.00	24.02	101	18	Horizontal
4	8467.623	41.27	54.00	12.73	187	170	Horizontal
5	13441.22	47.57	54.00	6.43	121	124	Horizontal
6	15044.40	57.65	74.00	16.35	180	16	Horizontal



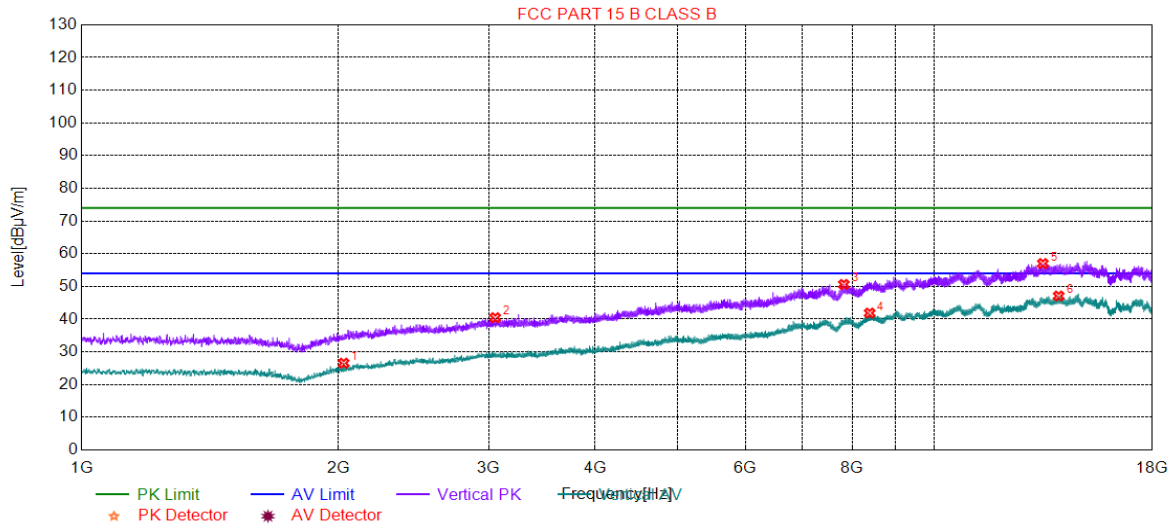
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Mode:e; Polarization:Vertical



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2028.551	26.57	54.00	27.43	220	16	Vertical
2	3053.702	40.46	74.00	33.54	153	193	Vertical
3	7824.991	50.63	74.00	23.37	158	80	Vertical
4	8390.269	41.88	54.00	12.12	156	188	Vertical
5	13391.06	57.02	74.00	16.98	262	63	Vertical
6	13975.04	47.10	54.00	6.90	295	210	Vertical

#### Remark:

1) Scan from 1GHz to 40GHz, The disturbance between 18GHz to 40GHz was very low, so only 1GHz to 18GHz test data had been displayed. The amplitude of emissions from the Eut which are attenuated more than 20dB below the limit need not be reported .



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### 3 Equipment List

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020-04-02	2021-04-01
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
5G UXM	Keysight	E7515B	XAW01-19-02	2020-09-11	2021-09-10
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR

RE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020-04-02	2021-04-01
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020-04-02	2021-04-01
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	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
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2020-10-27	2021-10-26
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2020-10-26	2021-10-25
5G UXM	Keysight	E7515B	XAW01-04-01	2020-09-11	2021-09-10
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ RE V3.0.0.2	XAW02-05-01	NCR	NCR



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Wireless Laboratory

1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi'an, Shaanxi, China 710086  
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1层 邮编: 710086

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## 4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
2	Radiated Emission	$\pm 4.8\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (1GHz to 6GHz)
		$\pm 4.5\text{dB}$ (6GHz to 18GHz)
		$\pm 5.02\text{dB}$ (Above 18GHz)



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t (86-29) 6282 7885 sgs.china@sgs.com



## 5 Photographs

### 5.1 Test Setup

Refer to Appendix A JBP Setup Photos.

### 5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -



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SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.  
Wireless Laboratory

11/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi'an, Shaanxi, China 710086  
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1层 邮编: 710086

t (86-29) 6282 7885 www.sgsgroup.com.cn  
t (86-29) 6282 7885 sgs.china@sgs.com