

Report No.: AR/2020/C000606-01

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### TEST REPORT

Application No: AR/2020/C0006

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.:** M2010J19SY

Trade Mark: Redmi

FCC ID: 2AFZZJ19SY

Standard(s): 47 CFR Part 15, Subpart B

**Date of Receipt:** 2020/12/11

**Date of Test:** 2020/12/11 to 2020/12/31(for original report AR/2020/C000406-01)

2020/12/20 to 2020/12/31(for new report AR/2020/C000606-01)

**Date of Issue:** 2021/5/28

Test Result: Pass\*

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

Authorized Signature:

Simon Ling

Wireless Laboratory Manager



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Revision Record										
Version	Chapter	Date	Modifier	Remark						
01		2021/1/7		Original						
02		2021/5/28	Leah Chen	Modify data conversion error of antenna height     Updated equipment list						

<sup>\*</sup>This report supersedes our previous report AR/2020/C000606, issued on 2021-1-7, which is hereby deemed null and void.

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



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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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### 1 General Information

Product Name:	Mobile Phone								
Model No.(EUT):	M2010J19SY								
Trade Mark:	Redmi	Redmi							
Hardware Version:	P2	P2							
Software Version:	MIUI12	MIUI12							
	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						
Frequency Bands:	LTE Band 7	2500~2570	2620~2690						
	LTE Band 38	2570~2620	2570~2620						
	LTE Band 41	2496~2690	2496~2690						
	Wi-Fi 2.4G	2400~2483	2400~2483						
	Bluetooth	2400~2483	2400~2483						
	Wi-Fi 5G	5150~5850	5150~5850						
	FM	87-108							
	NFC	13.56							
	GNSS(GPS/Glonass/Bei dou/Galileo)	1559~1610							

<sup>\*</sup>EUT 1= 4+128G EUT2=4+64G



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### 1.1 Description of Support Units

Description	Manufacturer	Model No.	Inventory No.
Router	NETGEAR	R6020	No.XA1401
Computer	Computer Lenovo		No.XA1402
Mouse	A4TECH	OP-520NU USB	No.XA1403

#### 1.2 Test Location

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.

• FCC -Designation Number: CN1271.

#### 1.4 Deviation from Standards

None

#### 1.5 Abnormalities from Standard Conditions



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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  $66dB(\mu V)$ - $56dB(\mu V)$  quasi-peak,  $56dB(\mu V)$ - $46dB(\mu V)$  average

0.5M-5MHz 56dB( $\mu$ V) quasi-peak, 46dB( $\mu$ V) average 5M-30MHz 60dB( $\mu$ V) quasi-peak, 50dB( $\mu$ V) 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 a: Transfer data between the EUT1 and the PC+USB cable1 b: Transfer data between the EUT1 and the PC+USB cable2

the worst case: c: GSM 850 Idle+EUT1+BT+WLAN +NFC+GNSS Rx+playing MP4 (SD card)

+earphone+battery+Cable1+adapter1

d: WCDMA Band V Idle+EUT1+BT+WLAN + NFC+ GNSS Rx+playing MP4 (SD

card) +earphone+battery+ Cable1+adapter1

e: LTE Band 2 Idle+EUT1+BT+WLAN + NFC+ GNSS Rx+camera (Front)

+earphone+battery+ Cable1+adapter1

f: LTE Band 4 Idle+EUT1+BT+WLAN + NFC+GNSS Rx+camera (back)

+earphone+battery+ Cable1+adapter1

g: LTE Band 5 Idle+EUT1+BT+WLAN + NFC+ GNSS Rx +FM

+earphone+battery+ Cable1+adapter1

h: LTE Band 7 Idle+EUT1+BT+WLAN + NFC+ GNSS Rx+camera (Front)

+earphone+battery+ Cable1+adapter2

i: LTE Band 38 Idle+EUT2+BT+WLAN + NFC+GNSS Rx+camera (Front)

+earphone+battery+ Cable1+adapter2

j: LTE Band 41 Idle+EUT1+BT+WLAN + NFC+GNSS Rx+camera (Front)

+earphone+battery+ Cable1+adapter3

k: LTE Band 41 Idle+EUT1+BT+WLAN + NFC+ GNSS Rx+camera (Front)

+earphone+battery+ Cable1+adapter4

I: Transfer data between the EUT2 and the PC+USB cable1

The worst case for final test:

e: LTE Band 2 Idle+EUT1+BT+WLAN + NFC+ GNSS Rx+camera (Front)

for final test: +earphone+battery+ Cable1+adapter1



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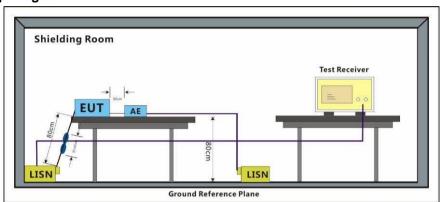
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#### 2.1.2 Test Setup Diagram



#### 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.



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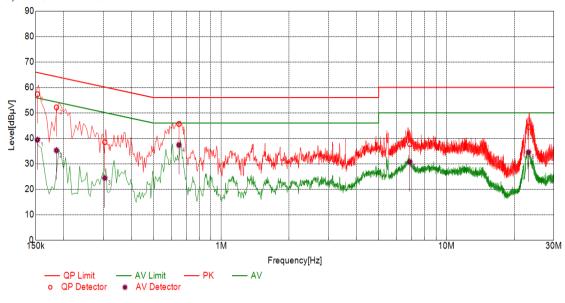
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#### Mode:d: Line:Live Line



#### **Test Graph**

Final	Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	ΑV Limit [dBμV]	AV Margin [dB]	Туре		
1	0.1529	10.10	57.32	65.84	8.52	39.38	55.84	16.46	L		
2	0.1857	10.10	52.14	64.22	12.08	35.24	54.22	18.98	L		
3	0.3044	10.10	38.47	60.12	21.65	24.39	50.12	25.73	L		
4	0.6494	10.10	45.62	56.00	10.38	37.37	46.00	8.63	L		
5	6.8727	10.10	37.69	60.00	22.31	30.71	50.00	19.29	L		
6	23.1499	10.11	44.38	60.00	15.62	34.54	50.00	15.46	L		



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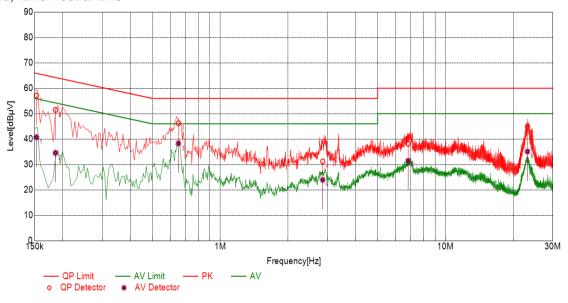
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#### Mode:d; Line:Neutral Line



#### **Test Graph**

Final	Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Value [dΒμV]	QP Limit [dΒμV]	QP Margin [dB]	AV Value [dΒμV]	AV Limit [dΒμV]	AV Margin [dB]	Туре		
1	0.1529	10.10	57.11	65.84	8.73	40.70	55.84	15.14	N		
2	0.1857	10.10	51.44	64.22	12.78	34.55	54.22	19.67	N		
3	0.6527	10.10	46.23	56.00	9.77	38.31	46.00	7.69	N		
4	2.8525	10.10	31.23	56.00	24.77	23.94	46.00	22.06	N		
5	6.8304	10.10	38.13	60.00	21.87	31.43	50.00	18.57	N		
6	23.1324	10.11	44.93	60.00	15.07	35.09	50.00	14.91	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:

30 MHz - 88 MHz  $40.0 (\text{dB}\mu\text{V/m})$  quasi-peak 88 MHz - 216 MHz  $43.5 (\text{dB}\mu\text{V/m})$  quasi-peak 216 MHz - 960 MHz  $46.0 (\text{dB}\mu\text{V/m})$  quasi-peak 960 MHz - 1000 MHz  $54.0 (\text{dB}\mu\text{V/m})$  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 a: Transfer data between the EUT1 and the PC+USB cable1 b: Transfer data between the EUT1 and the PC+USB cable2

the worst case: c: GSM 850 Idle+EUT1+BT+WLAN+NFC +GNSS Rx+playing MP4 (SD card)

+earphone+battery+Cable1+adapter1

d: WCDMA Band V Idle+EUT1+BT+WLAN + NFC +GNSS Rx+playing MP4 (SD

card) +earphone+battery+ Cable1+adapter1

e: LTE Band 5 Idle+EUT1+BT+WLAN + NFC +GNSS Rx+camera (Front)

+earphone+battery+ Cable1+adapter1

f: LTE Band 2 Idle+EUT1+BT+WLAN + NFC +GNSS Rx+camera (back)

+earphone+battery+ Cable1+adapter1

g: LTE Band 4 Idle+EUT1+BT+WLAN + NFC +GNSS Rx +FM

+earphone+battery+ Cable1+adapter1

h: LTE Band 7 Idle+EUT1+BT+WLAN + NFC +GNSS Rx+camera (Front)

+earphone+battery+ Cable1+adapter2

i: LTE Band 38 Idle+EUT1+BT+WLAN + NFC +GNSS Rx+camera (Front)

+earphone+battery+ Cable1+adapter2

j: LTE Band 41 Idle+EUT1+BT+WLAN + NFC +GNSS Rx+camera (Front)

+earphone+battery+ Cable1+adapter2

k: LTE Band 5 Idle+EUT1+BT+WLAN + NFC +GNSS Rx+camera (Front)

+earphone+battery+ Cable1+adapter3

I: LTE Band 5 Idle+EUT1+BT+WLAN + NFC +GNSS Rx+camera (Front)

+earphone+battery+ Cable1+adapter4

m: LTE Band 5 Idle+EUT2+BT+WLAN + NFC +GNSS Rx+camera (Front)

+earphone+battery+ Cable1+adapter2

n Transfer data between the EUT2 and the PC+USB cable1

The worst case for final test:

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



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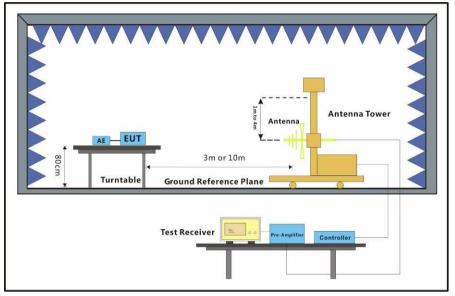
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#### 2.1.5 Test Setup Diagram



#### 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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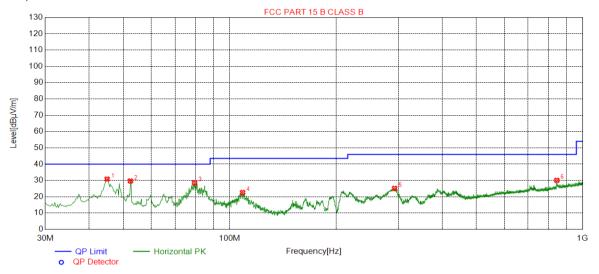
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#### Mode:b: Polarization:Horizontal



### **Suspected List**

C	Supported List										
Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	44.9410	30.84	40.00	9.16	134	215	Horizontal				
2	52.3145	29.68	40.00	10.32	185	107	Horizontal				
3	79.4799	28.58	40.00	11.42	212	313	Horizontal				
4	108.7798	22.62	43.50	20.88	142	252	Horizontal				
5	293.3107	25.16	46.00	20.84	231	62	Horizontal				
6	844.9630	30.08	46.00	15.92	200	114	Horizontal				



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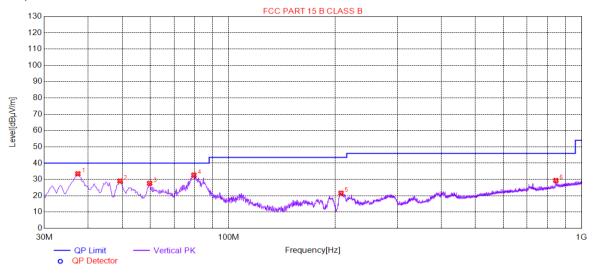
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#### Mode:b; Polarization:Vertical



### **Suspected List**

Suspected List										
Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	37.3735	33.48	40.00	6.52	156	311	Vertical			
2	49.2098	29.00	40.00	11.00	296	303	Vertical			
3	59.6879	27.58	40.00	12.42	292	346	Vertical			
4	79.6739	32.67	40.00	7.33	154	250	Vertical			
5	208.1276	21.60	43.50	21.90	208	34	Vertical			
6	845.1570	29.36	46.00	16.64	202	177	Vertical			



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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 to18000MHz

#### 2.1.7 E.U.T. Operation

Operating Environment:

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

Pretest these a: Transfer data between the EUT1 and the PC+USB cable1 b: Transfer data between the EUT1 and the PC+USB cable2

the worst case: c: GSM 850 Idle+EUT1+BT+WLAN+NFC +GNSS Rx+playing MP4 (SD card)

+earphone+battery+Cable1+adapter1

d: WCDMA Band V Idle+EUT1+BT+WLAN + NFC +GNSS Rx+playing MP4 (SD

card) +earphone+battery+ Cable1+adapter1

e: LTE Band 5 Idle+EUT1+BT+WLAN + NFC +GNSS Rx+camera (Front)

+earphone+battery+ Cable1+adapter1

f: LTE Band 2 Idle+EUT1+BT+WLAN + NFC +GNSS Rx+camera (back)

+earphone+battery+ Cable1+adapter1

q: LTE Band 4 Idle+EUT1+BT+WLAN + NFC +GNSS Rx +FM

+earphone+battery+ Cable1+adapter1

h: LTE Band 7 Idle+EUT1+BT+WLAN + NFC +GNSS Rx+camera (Front)

+earphone+battery+ Cable1+adapter2

i: LTE Band 38 Idle+EUT1+BT+WLAN + NFC +GNSS Rx+camera (Front)

+earphone+battery+ Cable1+adapter2

j: LTE Band 41 Idle+EUT1+BT+WLAN + NFC +GNSS Rx+camera (Front)

+earphone+battery+ Cable1+adapter2

k: LTE Band 5 Idle+EUT1+BT+WLAN + NFC +GNSS Rx+camera (Front)

+earphone+battery+ Cable1+adapter3

I: LTE Band 5 Idle+EUT1+BT+WLAN + NFC +GNSS Rx+camera (Front)

+earphone+battery+ Cable1+adapter4

m: LTE Band 5 Idle+EUT2+BT+WLAN + NFC +GNSS Rx+camera (Front)

+earphone+battery+ Cable1+adapter2

n Transfer data between the EUT2 and the PC+USB cable1

The worst case for final test:

d: WCDMA Band V Idle+EUT1+BT+WLAN + NFC +GNSS Rx+playing MP4 (SD

for final test: card) +earphone+battery+ Cable1+adapter1



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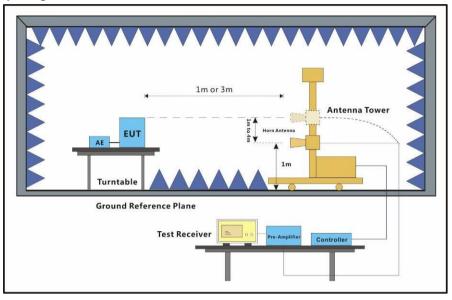
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#### 2.1.8 Test Setup Diagram



#### 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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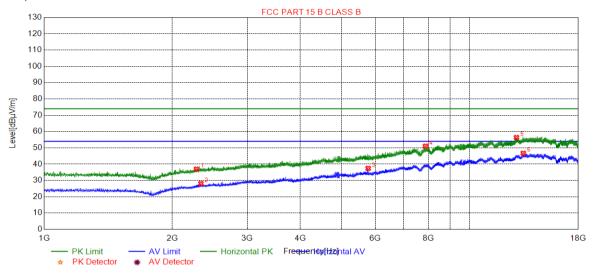
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#### Mode:d: Polarization:Horizontal



### **Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2279.314	36.96	74.00	37.04	232	59	Horizontal
2	2334.566	28.13	54.00	25.87	158	301	Horizontal
3	5772.138	37.41	54.00	16.59	188	232	Horizontal
4	7872.593	51.04	74.00	22.96	156	105	Horizontal
5	12877.64	56.36	74.00	17.64	106	344	Horizontal
6	13363.86	46.69	54.00	7.31	195	124	Horizontal



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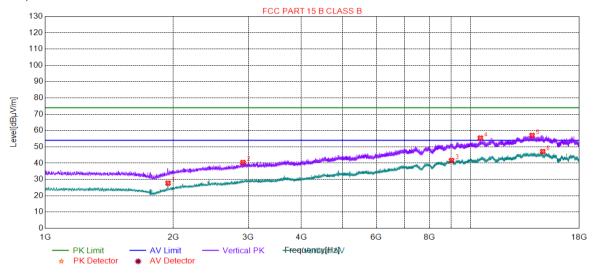
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#### Mode:d; Polarization:Vertical



### **Suspected List**

dispected List							
Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1944.397	27.75	54.00	26.25	293	281	Vertical
2	2916.845	40.43	74.00	33.57	255	38	Vertical
3	9015.900	41.65	54.00	12.35	211	16	Vertical
4	10537.47	55.42	74.00	18.58	189	235	Vertical
5	13941.04	57.05	74.00	16.95	246	168	Vertical
6	14767.28	47.18	54.00	6.82	284	346	Vertical

#### Remark:

1) Scan from 1GHz to 30GHz, The disturbance above 18GHz was very low and all noise floor. The above radiated emissions were the highest point could be found when testing, so only the above radiated emissions had been displayed



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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

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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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### 4 Measurement Uncertainty

No.	Item	Measurement Uncertainty		
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)		
		± 4.8dB (Below 1GHz)		
2	Radiated Emission	± 4.8dB (1GHz to 6GHz)		
2		± 4.5dB (6GHz to 18GHz)		
		± 5.02dB (Above 18GHz)		

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### 5 Photographs

### 5.1 Test Setup

Refer to Appendix A - Photographs of Set-Up for AR/2020/C0004.

### 5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -



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