

Report No.: AR/2020/9001006-01

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### TEST REPORT

**Application No.:** AR/2020/90010

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.: M2010J19CG,M2010J19CT

Trade Mark: POCO

FCC ID: 2AFZZJ19CG

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

**Date of Receipt:** 2020/9/29

**Date of Test:** 2020/9/29 to 2020/10/16

**Date of Issue:** 2021/5/24

Test Result: Pass\*

Authorized Signature:

Simon Ling

Wireless Laboratory Manager



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sgs.china@sgs.com

<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2020/10/18		Original	
02		2021/5/24	Leah Chen	Modify data conversion error of antenna height     Updated equipment list	

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



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### 2 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

#### Remark

Item	M2010J19CG	M2010J19CT
LTE Band 41	Support	Not Support

Note: customer declaration, two models are the same, except for model. There are more than one model, each one should be applied throughout the compliance test respectively,

However, only the worst case(M2010J19CG) will be recorded in this report.



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### 4 General Information

Product Name:	Mobile Phone					
Model No.(EUT):	M2010J19CG,M2010J19CT					
FCC ID:	2AFZZJ19CG	2AFZZJ19CG				
Trade Mark:	POCO					
Hardware Version:	P2					
Software Version:	MIUI 12					
	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			
Francisco Dondo	LTE Band 7	2500~2570	2620~2690			
Frequency Bands:	LTE Band 38	2570~2620	2570~2620			
	LTE Band 41	2535~2655	2535~2655			
	Bluetooth	2400~2483.5	2400~2483.5			
	Wi-Fi 2.4G b/g/n	2402~2472	2402~2472			
		5150~5250	5150~5250			
	Wi-Fi 5G a/n/ac	5250~5350	5250~5350			
	WI-FI 5G a/II/ac	5470~5725	5470~5725			
		5725~5825	5725~5825			
	GNSS*	1599~161	0			
	FM 87.5~108					

<sup>\*</sup> GNSS = GPS + Glonass + Beidou + Galileo+SBAS EUT 1= 4+64G EUT2=6+128G EUT3=4+128G

#### 4.1 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



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### 4.2 Measurement Uncertainty

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

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#### 4.3 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

No tests were sub-contracted.

### 4.4 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.

#### 4.5 Deviation from Standards

None

#### 4.6 Abnormalities from Standard Conditions

None



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### 5 Equipment List

	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	
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	
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	2019-11-18	2020-11-17	
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2019-11-18	2020-11-17	
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2019-12-03	2020-12-02	
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2019-11-18	2020-11-17	
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05	
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR	
5G UXM	Keysight	E7515B	XAW01-19-02	2020-09-11	2021-09-10	
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020-04-02	2021-04-01	

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	
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	
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05	
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR	
5G UXM	Keysight	E7515B	XAW01-19-02	2020-09-11	2021-09-10	
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020-04-02	2021-04-01	



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### 6 Emission Test Results

#### 6.1 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

#### 6.1.1 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:

1:Transfer data between the EUT1 and the PC+USB cable1
2:Transfer data between the EUT1 and the PC+USB cable2

3:GSM850 Idle +BT+WLAN2.4G+GNSS Rx+playing MP4+earphone+EUT1+USB

cable1+adapter1+ant down

4:GSM1900 Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT1+USB cable1+adapter2+ant down 5:WCDMA II Idle +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter1+ant down 6:WCDMA VI Link +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter1+ant down

7:WCDMA V Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT1+USB cable1+adapter1+ant down

8:LTE band 2 Link +BT+ WLAN5G+GNSS Rx+earphone+EUT1+USB cable1+adapter1+ant down

9:LTE band 4 Idle +BT+FM +WLAN2.4G+GNSS Rx+earphone+EUT1+USB cable1+adapter1+ant down

10:LTE band 5 Idle +BT+FM+WLAN5G+GNSS Rx+earphone+EUT1+USB

cable1+adapter1+ant down
11:LTE band 7 Idle +BT+FM+WLAN2.4G+GNSS Rx+earphone+EUT1+USB

cable1+adapter1+ant down
12:LTE band 38 Link +BT+FM +WLAN5G+GNSS Rx+earphone+EUT1+USB

cable1+adapter1+ant down

13:LTE band 41 Idle +BT+FM +WLAN2.4G+GNSS Rx+earphone+EUT1+USB cable1+adapter1+ant down

14:WCDMA VI Link +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT2+USB cable1+adapter1+ant down 15:WCDMA VI Link +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT3+USB cable1+adapter1+ant down

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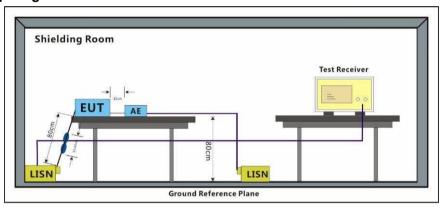
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The worst case for final test:

6:WCDMA VI Link +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter1+ant down

#### 6.1.2 Test Setup Diagram



#### 6.1.3 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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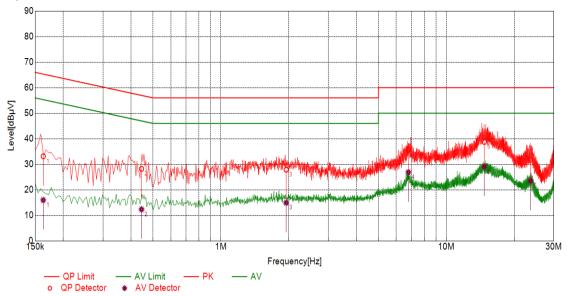
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#### Mode:6; Line:Live Line



Final	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]	Туре			
1	0.1630	10.10	33.13	65.31	32.18	15.97	55.31	39.34	L			
2	0.4449	10.10	28.21	56.97	28.76	12.34	46.97	34.63	L			
3	1.9486	10.10	27.88	56.00	28.12	14.93	46.00	31.07	L			
4	6.7907	10.10	35.74	60.00	24.26	26.89	50.00	23.11	L			
5	14.7379	10.11	38.75	60.00	21.25	29.08	50.00	20.92	L			
6	23.6267	10.11	31.72	60.00	28.28	23.54	50.00	26.46	L			



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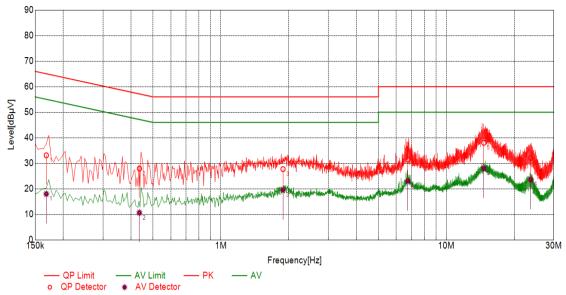
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#### Mode:6; Line:Neutral Line



Final	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]	Туре			
1	0.1682	10.10	33.11	65.05	31.94	17.99	55.05	37.06	N			
2	0.4353	10.10	27.90	57.15	29.25	10.63	47.15	36.52	N			
3	1.8867	10.10	27.72	56.00	28.28	19.55	46.00	26.45	N			
4	6.7554	10.10	31.38	60.00	28.62	23.00	50.00	27.00	N			
5	14.6659	10.11	38.00	60.00	22.00	27.97	50.00	22.03	N			
6	23.7039	10.11	32.10	60.00	27.90	23.56	50.00	26.44	N			



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### 6.2 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  $40.0 (\text{dB}\mu\text{V/m}) \text{ quasi-peak}$  88 MHz - 216 MHz  $43.5 (\text{dB}\mu\text{V/m}) \text{ quasi-peak}$  216 MHz - 960 MHz  $46.0 (\text{dB}\mu\text{V/m}) \text{ quasi-peak}$   $54.0 (\text{dB}\mu\text{V/m}) \text{ quasi-peak}$ 

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

#### 6.2.1 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:

1:Transfer data between the EUT1 and the PC+USB cable1
2:Transfer data between the EUT1 and the PC+USB cable2

3:GSM850 Idle +BT+WLAN2.4G+GNSS Rx+playing MP4+earphone+EUT1+USB

cable1+adapter1+ant down

4:GSM1900 Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT1+USB cable1+adapter2+ant down 5:WCDMA II Idle +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter1+ant down 6:WCDMA VI Idle +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter1+ant down 7:WCDMA V Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT1+USB cable1+adapter1+ant down

8:LTE band 2 Idle +BT+ WLAN5G+GNSS Rx+earphone+EUT1+USB

cable1+adapter1+ant down

9:LTE band 4 Idle +BT+FM +WLAN2.4G+GNSS Rx+earphone+EUT1+USB

cable1+adapter1+ant down

10:LTE band 5 Idle +BT+FM+WLAN5G+GNSS Rx+earphone+EUT1+USB

cable1+adapter1+ant down

11:LTE band 7 Idle +BT+FM+WLAN2.4G+GNSS Rx+earphone+EUT1+USB

cable1+adapter1+ant down

12:LTE band 38 Idle +BT+FM +WLAN5G+GNSS Rx+earphone+EUT1+USB

cable1+adapter1+ant down

13:LTE band 41 Idle +BT+FM +WLAN2.4G+GNSS Rx+earphone+EUT1+USB

cable1+adapter1+ant down

14:Transfer data between the EUT2 and the PC+USB cable1 15:Transfer data between the EUT3 and the PC+USB cable1

The worst case for final test:

1:Transfer data between the EUT1 and the PC+USB cable1



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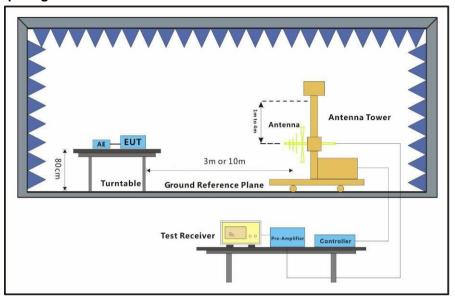
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#### 6.2.2 Test Setup Diagram



#### 6.2.3 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.



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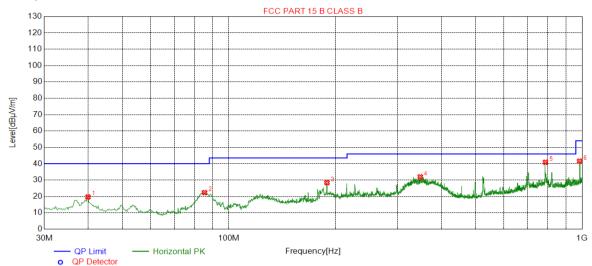
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#### Mode:1; Polarization:Horizontal



Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	39.8960	19.69	-28.37	40.00	20.31	121	123	Horizontal	
2	85.3011	22.36	-34.87	40.00	17.64	161	49	Horizontal	
3	189.499	28.44	-32.30	43.50	15.06	234	60	Horizontal	
4	348.223	32.00	-26.91	46.00	14.00	134	294	Horizontal	
5	787.527	40.92	-17.92	46.00	5.08	100	66	Horizontal	
6	984.282	41.61	-15.01	54.00	12.39	136	58	Horizontal	



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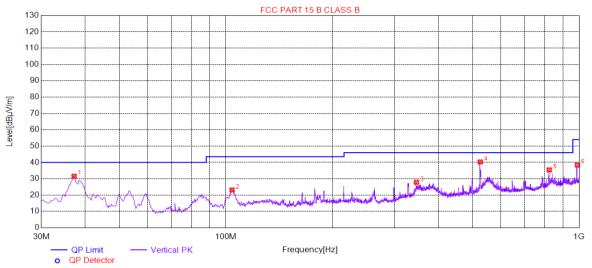
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#### Mode:1; Polarization:Vertical



Susp	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	37.1794	31.59	-29.25	40.00	8.41	170	226	Vertical		
2	104.122	23.14	-32.00	43.50	20.36	256	197	Vertical		
3	346.283	27.88	-26.96	46.00	18.12	249	2	Vertical		
4	524.993	40.32	-22.68	46.00	5.68	279	346	Vertical		
5	823.230	35.45	-17.37	46.00	10.55	187	338	Vertical		
6	988.745	38.42	-14.95	54.00	15.58	192	33	Vertical		



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### 6.3 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

#### 6.3.1 E.U.T. Operation

Operating Environment:

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

Pretest these 1:Transfer data between the EUT1 and the PC+USB cable1 2:Transfer data between the EUT1 and the PC+USB cable2 the worst case:

3:GSM850 Idle +BT+WLAN2.4G+GNSS Rx+playing MP4+earphone+EUT1+USB

cable1+adapter1+ant down

4:GSM1900 Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT1+USB cable1+adapter2+ant down 5:WCDMA II Idle +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter1+ant down 6:WCDMA VI Idle +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter1+ant down 7:WCDMA V Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT1+USB cable1+adapter1+ant down

8:LTE band 2 Idle +BT+ WLAN5G+GNSS Rx+earphone+EUT1+USB

cable1+adapter1+ant down

9:LTE band 4 Idle +BT+FM +WLAN2.4G+GNSS Rx+earphone+EUT1+USB

cable1+adapter1+ant down

10:LTE band 5 Idle +BT+FM+WLAN5G+GNSS Rx+earphone+EUT1+USB

cable1+adapter1+ant down

11:LTE band 7 Idle +BT+FM+WLAN2.4G+GNSS Rx+earphone+EUT1+USB

cable1+adapter1+ant down

12:LTE band 38 Idle +BT+FM +WLAN5G+GNSS Rx+earphone+EUT1+USB

cable1+adapter1+ant down

13:LTE band 41 Idle +BT+FM +WLAN2.4G+GNSS Rx+earphone+EUT1+USB

cable1+adapter1+ant down

14: GSM1900 Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT2+USB cable1+adapter2+ant down 15: GSM1900 Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT3+USB cable1+adapter2+ant down

The worst case for final test:

4:GSM1900 Idle +BT+WLAN5G+GNSS Rx+camera

(Back)+earphone+EUT1+USB cable1+adapter2+ant down



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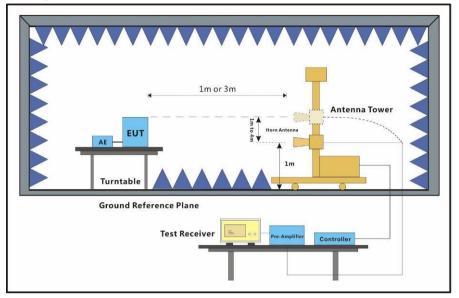
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#### 6.3.2 Test Setup Diagram



#### 6.3.3 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.

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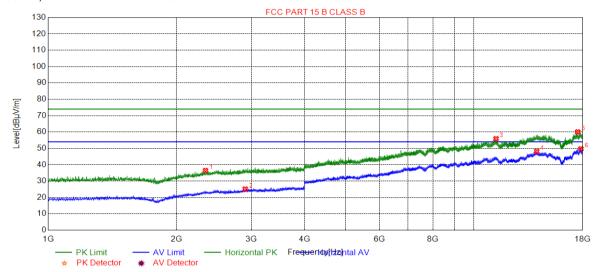
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#### Mode:4; Polarization:Horizontal



Suspected List									
NO.	Freq.	Level	Factor	Limit	Margin	Height	Angle	Polarity	
	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Clarity	
1	2340.51	36.47	-26.70	74.00	37.53	231	278	Horizontal	
2	2900.69	25.15	-24.75	54.00	28.85	218	231	Horizontal	
3	11260.0	55.90	-2.77	74.00	18.10	207	156	Horizontal	
4	14026.9	48.16	2.27	54.00	5.84	210	344	Horizontal	
5	17515.4	60.08	1.54	74.00	13.92	193	80	Horizontal	
6	17821.4	49.75	0.57	54.00	4.25	152	4	Horizontal	



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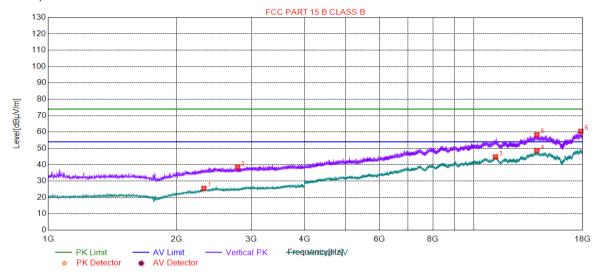
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Mode 4; Polarization: Vertical



Suspe	Suspected List									
NO	Freq.	Level	Factor	Limit	Margin	Height	Angle	Dolovitu		
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
1	2320.96	25.59	-26.77	54.00	28.41	197	318	Vertical		
2	2785.08	38.48	-25.27	74.00	35.52	272	243	Vertical		
3	11226.0	44.84	-2.82	54.00	9.16	230	81	Vertical		
4	14040.5	48.67	2.29	54.00	5.33	191	318	Vertical		
5	14041.3	58.36	2.29	74.00	15.64	286	355	Vertical		
6	17812.1	60.46	0.62	74.00	13.54	200	194	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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### 7 Photographs

- 7.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) Test Setup
- 7.2 Radiated Emissions (30MHz-1GHz) Test Setup
- 7.3 Radiated Emissions (above 1GHz) Test Setup
- 7.4 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -



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