

Report No.: AR/2020/A000706-01

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TEST REPORT

Application No.: AR/2020/A0007

Xiaomi Communications Co., Ltd. Applicant:

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, **Address of Applicant:**

China, 100085

Xiaomi Communications Co., Ltd. Manufacturer:

#019, 9th Floor, Building 6, 33 Xi'ergi Middle Road, Haidian District, Beijing, Address of Manufacturer:

China, 100085

Mobile Phone **EUT Description:**

M2010J19SG,M2010J19ST Model No.:

Redmi Trade Mark:

2AFZZJ19CG FCC ID:

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

Date of Receipt: 2020/9/29

2020/9/29 to 2020/10/16(for original report AR/2020/9001006-01) **Date of Test:**

2020/11/3 to 2020/11/10(for new report AR/2020/A000706-01)

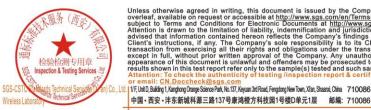
Date of Issue: 2021/5/25

Pass* **Test Result:**

Authorized Signature:

Simon Lina

Wireless Laboratory Manager



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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| Revision Record | | | | |
|-----------------|---------|------------|-----------|---|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2020/11/13 | | Original |
| 02 | | 2021/5/25 | 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 | M2010J19SG | M2010J19ST |
|-------------|------------|-------------|
| 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(M2010J19SG) will be recorded in this report.

This report is changed to model based on the original report number AR/2020/9001006-01.

The revised contents are as follow:

| Model name | Camera specification | LED position | Camera position | Trade Mark | rear cover |
|---------------------------|----------------------|-----------------------------|---|---------------|---|
| M2010J19CG, M2010J19CT | | located to the right of the | Viewed from the back, the macro camera, main camera and depth-of-field camera appear from top to bottom | POCO | The material is the same, Camera area coverage |



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or email: <u>CM. Docheck@sgs.com</u> 1/ft, lmlD, Baifing I, Kanghong Drangs-Sens-Park, Nr.137, Keyan 3rd Road, Fengdong New Town, Xian, Shasani, China 中国 - 西安 - 沣东新城科亚三路137号康鸿橙方科技园1号楼D单元1层 邮编:710086



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| M2010J19SG 48M+8M+2M+2M The LEI located the deprivate field came | is Wiewed from the back, the wide Angle camera, main camera and depth of field camera are in order from top to bottom, and add single macro camera is on the righ | Redmi | shape adjustment drawing different, engraving different | is laser is |
|--|---|-------|--|-------------------|
|--|---|-------|--|-------------------|

Based on the above differences, Spot check AR/2020/9001006-01 worse mode



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4 General Information

| Product Name: | Mobile Phone | | | |
|-------------------|-----------------------|-----------------------|-------------|--|
| Model No.(EUT): | M2010J19SG,M2010J19ST | M2010J19SG,M2010J19ST | | |
| FCC ID: | 2AFZZJ19CG | 2AFZZJ19CG | | |
| Trade Mark: | Redmi | | | |
| 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 | |
| Fraguency Bondo | 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 | | |

^{*} 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 |

4.2 Measurement Uncertainty

| | ······································ | | | |
|-----|--|---------------------------|--|--|
| No. | Item | Measurement Uncertainty | | |
| 1 | Conduction Emission | ± 3.0dB (150kHz to 30MHz) | | |
| | Radiated Emission | ± 4.8dB (Below 1GHz) | | |
| 2 | | ± 4.8dB (1GHz to 6GHz) | | |
| | | ± 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

| | 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 | | | | | | | | |
| Radio communication analyzer | ROHDE&SCHWARZ | CMW 500 | XAW01-03-02 | 2020-04-02 | 2021-04-01 | | | | | | | | |

| | | 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 | Schwarzbeck BBHA 9120D | | 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 |



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| Measurement Software | Tonscend | TS+ RSE V3.0.0.2 | XAW02-05-01 | NCR | NCR |
|------------------------------------|---------------|---------------------|-------------|------------|------------|
| 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(μ V)-56dB(μ V) quasi-peak, 56dB(μ V)-46dB(μ V) average

0.5M-5MHz 56dB(μ V) quasi-peak, 46dB(μ V) average 5M-30MHz 60dB(μ V) quasi-peak, 50dB(μ 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

* Stands for spot check mode

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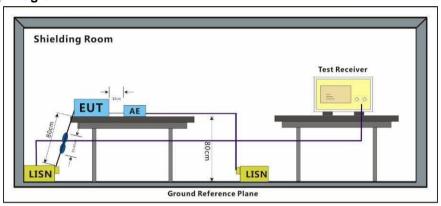
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6*:WCDMA VI Link +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter1+ant down

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.



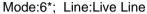
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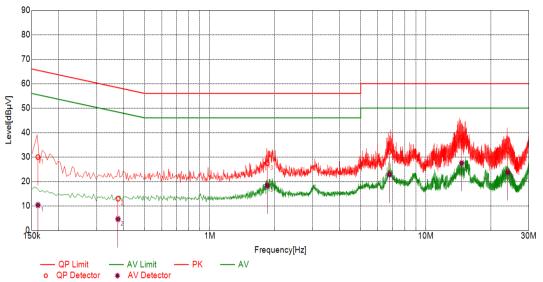
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| Final | Final Data List | | | | | | | | | | | | | |
|-------|-----------------|----------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|------|--|--|--|--|--|
| NO. | Freq. [MHz] | Factor [dB] | QP Value [dΒμV] | QP Limit [dΒμV] | QP Margin [dB] | ΑV Value [dBμV] | ΑV Limit [dBμV] | AV Margin [dB] | Туре | | | | | |
| 1 | 0.1575 | 10.10 | 31.94 | 65.60 | 33.66 | 14.31 | 55.60 | 41.29 | L | | | | | |
| 2 | 0.4471 | 10.10 | 26.10 | 56.93 | 30.83 | 13.32 | 46.93 | 33.61 | L | | | | | |
| 3 | 1.9028 | 10.10 | 25.96 | 56.00 | 30.04 | 12.00 | 46.00 | 34.00 | L | | | | | |
| 4 | 6.8376 | 10.10 | 33.90 | 60.00 | 26.10 | 24.64 | 50.00 | 25.36 | L | | | | | |
| 5 | 14.0803 | 10.11 | 39.24 | 60.00 | 20.76 | 29.01 | 50.00 | 20.99 | L | | | | | |
| 6 | 29.9989 | 10.11 | 36.59 | 60.00 | 23.41 | 26.79 | 50.00 | 23.21 | L | | | | | |



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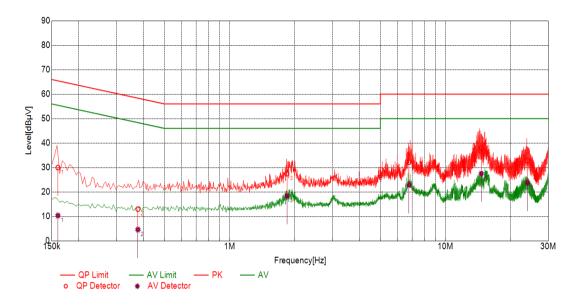
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Mode:6*; Line:Neutral Line



| Final | Final Data List | | | | | | | | | | | | | |
|-------|-----------------|----------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|------|--|--|--|--|--|
| NO. | Freq. [MHz] | Factor [dB] | QP Value [dΒμV] | QP Limit [dBµV] | QP Margin [dB] | AV Value [dΒμV] | AV Limit [dΒμV] | AV Margin [dB] | Туре | | | | | |
| 1 | 0.1604 | 10.10 | 29.97 | 65.44 | 35.47 | 10.32 | 55.44 | 45.12 | N | | | | | |
| 2 | 0.3765 | 10.10 | 12.96 | 58.36 | 45.40 | 4.61 | 48.36 | 43.75 | N | | | | | |
| 3 | 1.8445 | 10.10 | 27.45 | 56.00 | 28.55 | 18.39 | 46.00 | 27.61 | N | | | | | |
| 4 | 6.7879 | 10.10 | 32.16 | 60.00 | 27.84 | 22.86 | 50.00 | 27.14 | N | | | | | |
| 5 | 14.6687 | 10.11 | 38.01 | 60.00 | 21.99 | 27.52 | 50.00 | 22.48 | N | | | | | |
| 6 | 24.0025 | 10.11 | 32.78 | 60.00 | 27.22 | 23.77 | 50.00 | 26.23 | 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 $40.0 (\text{dB}\mu\text{V/m})$ 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

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

* Stands for spot check mode

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 6*:WCDMA VI Idle +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter1+ant down 1*:Transfer data between the EUT1 and the PC+USB cable1



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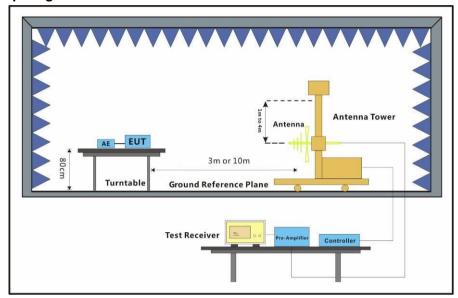
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1*:Transfer data between the EUT1 and the PC+USB cable1

The worst case for final test:

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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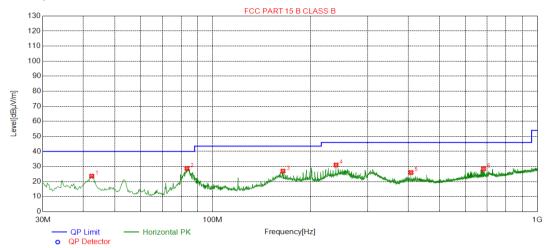
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Mode:1*; Polarization:Horizontal



| Suspe | Suspected List | | | | | | | | | | | | | |
|-------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|--|--|--|--|--|--|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | | | |
| 1 | 42.4185 | 23.64 | -29.35 | 40.00 | 16.36 | 143 | 93 | Horizontal | | | | | | |
| 2 | 83.3607 | 28.67 | -35.34 | 40.00 | 11.33 | 211 | 25 | Horizontal | | | | | | |
| 3 | 164.662 | 26.95 | -34.35 | 43.50 | 16.55 | 143 | 298 | Horizontal | | | | | | |
| 4 | 239.950 | 31.02 | -30.07 | 46.00 | 14.98 | 232 | 257 | Horizontal | | | | | | |
| 5 | 407.987 | 26.01 | -25.35 | 46.00 | 19.99 | 200 | 63 | Horizontal | | | | | | |
| 6 | 682.358 | 28.42 | -19.69 | 46.00 | 17.58 | 225 | 56 | Horizontal | | | | | | |



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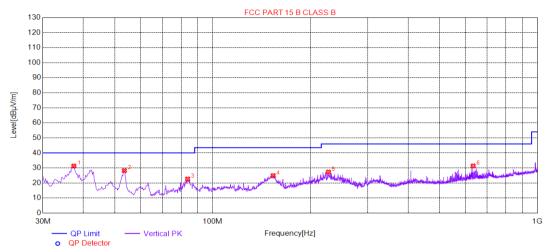
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Mode:1*; Polarization:Vertical



| Suspe | Suspected List | | | | | | | | | | | | | |
|-------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|--|--|--|--|--|--|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | | | |
| 1 | 37.3735 | 31.32 | -29.19 | 40.00 | 8.68 | 257 | 3 | Vertical | | | | | | |
| 2 | 53.4787 | 28.26 | -30.89 | 40.00 | 11.74 | 240 | 311 | Vertical | | | | | | |
| 3 | 83.7488 | 22.70 | -35.24 | 40.00 | 17.30 | 219 | 338 | Vertical | | | | | | |
| 4 | 153.602 | 24.95 | -34.92 | 43.50 | 18.55 | 288 | 343 | Vertical | | | | | | |
| 5 | 227.337 | 27.30 | -30.49 | 46.00 | 18.70 | 154 | 14 | Vertical | | | | | | |
| 6 | 634.042 | 31.37 | -20.22 | 46.00 | 14.63 | 269 | 25 | 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 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

* Stands for spot check mode

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 4*: GSM1900 Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT1+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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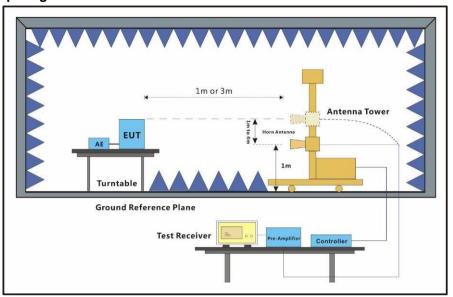
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6.3.2 Test Setup Diagram



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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Mode:4*; Polarization:Horizontal



| Suspe | Suspected List | | | | | | | | | | | | |
|-------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|--|--|--|--|--|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | | |
| 1 | 1567.82 | 34.48 | -30.36 | 74.00 | 39.52 | 142 | 45 | Horizontal | | | | | |
| 2 | 2554.72 | 28.34 | -25.90 | 54.00 | 25.66 | 219 | 196 | Horizontal | | | | | |
| 3 | 4874.49 | 43.07 | -17.89 | 74.00 | 30.93 | 198 | 158 | Horizontal | | | | | |
| 4 | 8436.17 | 40.57 | -7.72 | 54.00 | 13.43 | 228 | 202 | Horizontal | | | | | |
| 5 | 14400.9 | 57.62 | 1.96 | 74.00 | 16.38 | 178 | 8 | Horizontal | | | | | |
| 6 | 17478.9 | 47.78 | 1.37 | 54.00 | 6.22 | 219 | 8 | Horizontal | | | | | |



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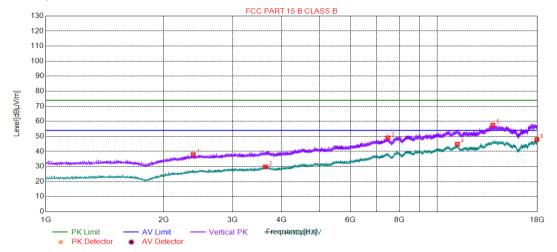
1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi'an, Shaarui, China 710086 中国・西安・沣东新城科源三路137号康海橙方科技园1号楼D单元1层 邮编: 710086



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Mode 4*; Polarization: Vertical



| Suspe | Suspected List | | | | | | | | | | | | | |
|-------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|--|--|--|--|--|--|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | | | |
| 1 | 2378.76 | 37.97 | -26.56 | 74.00 | 36.03 | 230 | 90 | Vertical | | | | | | |
| 2 | 3637.68 | 29.81 | -22.66 | 54.00 | 24.19 | 210 | 81 | Vertical | | | | | | |
| 3 | 7467.97 | 49.08 | -9.81 | 74.00 | 24.92 | 247 | 315 | Vertical | | | | | | |
| 4 | 11243.8 | 44.90 | -2.79 | 54.00 | 9.10 | 277 | 90 | Vertical | | | | | | |
| 5 | 13856.0 | 57.52 | 1.99 | 74.00 | 16.48 | 192 | 240 | Vertical | | | | | | |
| 6 | 17944.7 | 47.93 | -0.07 | 54.00 | 6.07 | 265 | 165 | 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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