

TEST REPORT

| | | |
|--|--|---|
| FCC ID : | 2ADE3IDATAP1MINI | |
| Test Report No : | TCT240301E020 | |
| Date of issue : | May 11, 2024 | |
| Testing laboratory | SHENZHEN TONGCE TESTING LAB | |
| Testing location/ address: | 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China | |
| Applicant's name : | WUXI IDATA TECHNOLOGY COMPANY LTD. | |
| Address : | Floor 11, Building B1, Wuxi Binhu National Sensing, Information Center, No.999 Gaolang East Road, Wuxi, China | |
| Manufacturer's name ... : | WUXI IDATA TECHNOLOGY COMPANY LTD. | |
| Address : | Floor 11, Building B1, Wuxi Binhu National Sensing, Information Center, No.999 Gaolang East Road, Wuxi, China | |
| Standard(s) | FCC CFR Title 47 Part 2 FCC CFR Title 47 Part22 FCC CFR Title 47 Part24 FCC CFR Title 47 Part27 FCC CFR Title 47 Part90 | |
| Product Name : | New Mobile Computer | |
| Trade Mark | iData | |
| Model/Type reference : | iData P1 mini | |
| Rating(s) : | Refer to EUT description of page 3 | |
| Date of receipt of test item | Mar. 01, 2024 | |
| Date (s) of performance of test : | Mar. 01, 2024 ~ May 11, 2024 | |
| Tested by (+signature) ... : | Aaron MO |  |
| Check by (+signature) : | Beryl ZHAO |  |
| Approved by (+signature) : | Tomsin |  |



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Appendix B: Photographs of Test Setup

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**Test Data: Refer to Appendix For LTE Band 2, Appendix For LTE Band 4,
Appendix For LTE Band 5, Appendix For LTE Band 12,
Appendix For LTE Band 17, Appendix For LTE Band 41**

1. General Product Information

1.1. EUT description

| | |
|---|---|
| Product Name: | New Mobile Computer |
| Model/Type reference: | iData P1 mini |
| Sample Number: | TCT240301E009-0101 |
| Tx Frequency: | LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 41: 2496 MHz ~ 2690 MHz |
| Rx Frequency: | LTE Band 2: 1930 MHz ~ 1990 MHz LTE Band 4: 2110 MHz ~ 2155 MHz LTE Band 5: 869 MHz ~ 894 MHz LTE Band 12: 729 MHz ~ 746 MHz LTE Band 17: 734 MHz ~ 746 MHz LTE Band 41: 2496 MHz ~ 2690 MHz |
| Bandwidth: | LTE Band 2: 1.4MHz /3MHz /5MHz /10MHz /15MHz /20MHz LTE Band 4: 1.4MHz /3MHz /5MHz /10MHz /15MHz /20MHz LTE Band 5: 1.4MHz /3MHz /5MHz /10MHz LTE Band 12: 1.4MHz /3MHz /5MHz /10MHz LTE Band 17: 5MHz /10MHz LTE Band 41: 5MHz /10MHz /15MHz /20MHz |
| Maximum Output Power to Antenna: | LTE Band 2: 23.76dBm LTE Band 4: 23.80dBm LTE Band 5: 23.84dBm LTE Band 12: 24.06dBm LTE Band 17: 24.13dBm LTE Band 41: 23.33dBm |
| 99% Occupied Bandwidth: | LTE Band 2: 18M0G7D LTE Band 4: 18M0W7D LTE Band 5: 9M00G7D LTE Band 12: 8M99G7D LTE Band 17: 8M99G7D LTE Band 41: 17M9G7D |
| Type of Modulation: | QPSK/16QAM |
| Antenna Type: | Internal Antenna |
| Antenna Gain: | LTE Band 2: 3.3dBi LTE Band 4: 3.83dBi LTE Band 5: -0.34dBi LTE Band 12: -3.81dBi LTE Band 17: -0.34dBi LTE Band 41: 2.72dBi |

| | |
|-------------------------|--|
| Rating(s): | Adapter Information: MODEL: TPA-141A050200UU01 Input: AC 100–240V, 50/60Hz, 0.3A Output: DC 5.0V, 2.0A Rechargeable Li-ion Battery DC 3.85V |
|-------------------------|--|

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

None.

1.3. Emission Designator

| LTE Band 2 | QPSK | | 16QAM | |
|------------|------------------------------|-----------------|------------------------------|-----------------|
| BW(MHz) | Emission Designator (99%OBW) | Maximum EIRP(W) | Emission Designator (99%OBW) | Maximum EIRP(W) |
| 1.4 | 1M09G7D | 0.508 | 1M09W7D | 0.415 |
| 3 | 2M69G7D | 0.495 | 2M69W7D | 0.412 |
| 5 | 4M50G7D | 0.493 | 4M51W7D | 0.392 |
| 10 | 8M99G7D | 0.491 | 8M98W7D | 0.412 |
| 15 | 13M5G7D | 0.484 | 13M5W7D | 0.396 |
| 20 | 18M0G7D | 0.498 | 18M0W7D | 0.398 |

| LTE Band 4 | QPSK | | 16QAM | |
|------------|------------------------------|-----------------|------------------------------|-----------------|
| BW(MHz) | Emission Designator (99%OBW) | Maximum EIRP(W) | Emission Designator (99%OBW) | Maximum EIRP(W) |
| 1.4 | 1M10G7D | 0.579 | 1M09W7D | 0.444 |
| 3 | 2M70G7D | 0.558 | 2M69W7D | 0.442 |
| 5 | 4M50G7D | 0.555 | 4M51W7D | 0.446 |
| 10 | 9M00G7D | 0.561 | 8M98W7D | 0.437 |
| 15 | 13M5G7D | 0.542 | 13M5W7D | 0.438 |
| 20 | 17M9G7D | 0.540 | 18M0W7D | 0.437 |

| LTE Band 5 | QPSK | | 16QAM | |
|------------|------------------------------|----------------|------------------------------|----------------|
| BW(MHz) | Emission Designator (99%OBW) | Maximum ERP(W) | Emission Designator (99%OBW) | Maximum ERP(W) |
| 1.4 | 1M09G7D | 0.135 | 1M10W7D | 0.112 |
| 3 | 2M69G7D | 0.135 | 2M69W7D | 0.112 |
| 5 | 4M50G7D | 0.136 | 4M51W7D | 0.113 |
| 10 | 9M00G7D | 0.136 | 8M98W7D | 0.113 |

| LTE Band 12 | QPSK | | 16QAM | |
|-------------|------------------------------|----------------|------------------------------|----------------|
| BW(MHz) | Emission Designator (99%OBW) | Maximum ERP(W) | Emission Designator (99%OBW) | Maximum ERP(W) |
| 1.4 | 1M09G7D | 0.064 | 1M09W7D | 0.052 |
| 3 | 2M70G7D | 0.064 | 2M69W7D | 0.052 |
| 5 | 4M51G7D | 0.064 | 4M51W7D | 0.052 |
| 10 | 8M99G7D | 0.065 | 8M98W7D | 0.053 |

| LTE Band 17 | QPSK | | 16QAM | |
|-------------|------------------------------|----------------|------------------------------|----------------|
| BW(MHz) | Emission Designator (99%OBW) | Maximum ERP(W) | Emission Designator (99%OBW) | Maximum ERP(W) |
| 5 | 4M50G7D | 0.142 | 4M50W7D | 0.117 |
| 10 | 8M99G7D | 0.146 | 8M99W7D | 0.117 |

| LTE Band 41 | QPSK | | 16QAM | |
|-------------|------------------------------|-----------------|------------------------------|-----------------|
| BW(MHz) | Emission Designator (99%OBW) | Maximum EIRP(W) | Emission Designator (99%OBW) | Maximum EIRP(W) |
| 5 | 4M49G7D | 0.387 | 4M50W7D | 0.335 |
| 10 | 8M98G7D | 0.403 | 8M98W7D | 0.346 |
| 15 | 13M5G7D | 0.386 | 13M5W7D | 0.331 |
| 20 | 17M9G7D | 0.401 | 17M9W7D | 0.329 |

1.4. Test Frequency

| LTE Band 2(1.4MHz) | | LTE Band 2(3MHz) | |
|--------------------|-----------------|-------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 18607 | 1850.7 | 18615 | 1851.5 |
| 18900 | 1880 | 18900 | 1880 |
| 19193 | 1909.3 | 19185 | 1908.5 |
| LTE Band 2(5MHz) | | LTE Band 2(10MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 18625 | 1852.5 | 18650 | 1855 |
| 18900 | 1880 | 18900 | 1880 |
| 19175 | 1907.5 | 19150 | 1905 |
| LTE Band 2(15MHz) | | LTE Band 2(20MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 18675 | 1857.5 | 18700 | 1860 |
| 18900 | 1880 | 18900 | 1880 |
| 19125 | 1902.5 | 19100 | 1900 |

| LTE Band 4(1.4MHz) | | LTE Band 4(3MHz) | |
|--------------------|-----------------|-------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 19957 | 1710.7 | 19965 | 1711.5 |
| 20175 | 1732.5 | 20175 | 1732.5 |
| 20393 | 1754.3 | 20385 | 1753.5 |
| LTE Band 4(5MHz) | | LTE Band 4(10MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 19975 | 1712.5 | 20000 | 1715 |
| 20175 | 1732.5 | 20175 | 1732.5 |
| 20375 | 1752.5 | 20350 | 1750 |
| LTE Band 4(15MHz) | | LTE Band 4(20MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 20025 | 1717.5 | 20050 | 1720 |
| 20175 | 1732.5 | 20175 | 1732.5 |
| 20325 | 1747.5 | 20300 | 1745 |

| LTE Band 5(1.4MHz) | | LTE Band 5(3MHz) | |
|--------------------|-----------------|-------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 20407 | 824.7 | 20415 | 825.5 |
| 20525 | 836.5 | 20525 | 836.5 |
| 20643 | 848.3 | 20635 | 847.5 |
| LTE Band 5(5MHz) | | LTE Band 5(10MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 20425 | 826.5 | 20450 | 829 |
| 20525 | 836.5 | 20525 | 836.5 |
| 20625 | 846.5 | 20600 | 844 |

| LTE Band 12(1.4MHz) | | LTE Band 12(3MHz) | |
|---------------------|-----------------|--------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 23017 | 699.7 | 23025 | 700.5 |
| 23095 | 707.5 | 23095 | 707.5 |
| 23173 | 715.3 | 23165 | 714.5 |
| LTE Band 12(5MHz) | | LTE Band 12(10MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 23035 | 701.5 | 23060 | 704 |
| 23095 | 707.5 | 23095 | 707.5 |
| 23155 | 713.5 | 23130 | 711 |

| LTE Band 17(5MHz) | | LTE Band 17(10MHz) | |
|-------------------|-----------------|--------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 23755 | 706.5 | 23780 | 709 |
| 23790 | 710 | 23790 | 710 |
| 23825 | 713.5 | 23800 | 711 |

| LTE Band 41(5MHz) | | LTE Band 41(10MHz) | |
|--------------------|-----------------|--------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 39675 | 2498.5 | 39700 | 2501 |
| 40620 | 2593 | 40620 | 2593 |
| 41565 | 2687.5 | 41540 | 2685 |
| LTE Band 41(15MHz) | | LTE Band 41(20MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 39725 | 2503.5 | 39750 | 2506 |
| 40620 | 2593 | 40620 | 2593 |
| 41515 | 2682.5 | 41490 | 2680 |

2. Test Result Summary

| Requirement | CFR 47 Section | Result |
|---|--|--------|
| Conducted Output Power | §2.1046; §22.913; §24.232(c); §27.50(d); §27.50(c); §27.50(b); §90.542(a) | PASS |
| Peak-to-Average Ratio | §2.1046; §24.232(d) §27.50(d); §27.50(c); §27.50(b) | PASS |
| Effective Radiated Power | §2.1046; §22.913; §24.232(c); §27.50(d); §27.50(c); §27.50(b); §90.542(a) | PASS |
| Equivalent Isotropic Radiated Power | §2.1046; §22.913; §24.232(c); §27.50(d); §27.50(c); §27.50(b); §90.542(a) | PASS |
| Occupied Bandwidth | §2.1049; §24.238(b); §27.53; §90.209(a) | PASS |
| Band Edge | §2.1051; §22.917(a); §27.53(h); §27.53(c); §27.53(g); §24.238(a); §90.543(e) | PASS |
| Conducted Spurious Emission | §2.1051; §22.917(a); §27.53(h); §27.53(g); §27.53(c); §24.238(a); §90.543(c) | PASS |
| Field Strength of Spurious Radiation | §2.1053; §22.917(a); §27.53(g); §27.53(c); §27.53(h); §24.238(a); §90.543(c) | PASS |
| Frequency Stability for Temperature & Voltage | §2.1055; §22.355; §27.54; §24.235; §90.213 | PASS |

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.
5. The EUT has two appearance types, only the camera position is different, and both have been tested, only camera position 1 has the worst test data.

3. General Information

3.1. Test environment and mode

| Operating Environment: | |
|------------------------|-----------|
| Temperature: | 25.0 °C |
| Humidity: | 56 % RH |
| Atmospheric Pressure: | 1010 mbar |

Keep the EUT in communication with CMW500 and select channel with modulation
All modes and data rates and positions were investigated.
Test modes are chosen to be reported as the worst case configuration below:

| Test Mode | | |
|-------------|--|---|
| Band | Radiated TCs | Conducted TCs |
| LTE Band 2 | QPSK Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz) | 16QAM Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz) |
| LTE Band 4 | QPSK Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz) | 16QAM Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz) |
| LTE Band 5 | QPSK Link (1.4MHz / 3MHz / 5MHz / 10MHz) | 16QAM Link (1.4MHz / 3MHz / 5MHz / 10MHz) |
| LTE Band 12 | QPSK Link (1.4MHz / 3MHz / 5MHz / 10MHz) | 16QAM Link (1.4MHz / 3MHz / 5MHz / 10MHz) |
| LTE Band 17 | QPSK Link (5MHz / 10MHz) | 16QAM Link (5MHz / 10MHz) |
| LTE Band 41 | QPSK Link (5MHz / 10MHz / 15MHz / 20MHz) | 16QAM Link (5MHz / 10MHz / 15MHz / 20MHz) |

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas License Digital Systems v03 with maximum output power. Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission. The sample was placed 0.8m/1.5m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarization. The emissions worst-case are shown in Test Results of the following pages.

| Test Items | Band | Bandwidth (MHz) | | | | | | Modulation | | RB # | | | Test Channel | | |
|-----------------------------|------|-----------------|---|---|----|----|----|------------|-------|------|------|------|--------------|---|---|
| | | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 1 | Half | Full | L | M | H |
| Max. Output Power | 2 | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 4 | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 5 | v | v | v | v | - | - | v | v | v | v | v | v | v | v |
| | 12 | v | v | v | v | - | - | v | v | v | v | v | v | v | v |
| | 17 | - | - | v | v | - | - | v | v | v | v | v | v | v | v |
| | 41 | - | - | v | v | v | v | v | v | v | v | v | v | v | v |
| Peak-to-Average Ratio | 2 | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 4 | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 5 | v | v | v | v | - | - | v | v | v | v | v | v | v | v |
| | 12 | v | v | v | v | - | - | v | v | v | v | v | v | v | v |
| | 17 | - | - | v | v | - | - | v | v | v | v | v | v | v | v |
| | 41 | - | - | v | v | v | v | v | v | v | v | v | v | v | v |
| 26dB and 99% Bandwidth | 2 | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 4 | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 5 | v | v | v | v | - | - | v | v | v | v | v | v | v | v |
| | 12 | v | v | v | v | - | - | v | v | v | v | v | v | v | v |
| | 17 | - | - | v | v | - | - | v | v | v | v | v | v | v | v |
| | 41 | - | - | v | v | v | v | v | v | - | - | v | v | v | v |
| Conducted Band Edge | 2 | v | v | v | v | v | v | v | v | v | v | v | v | - | v |
| | 4 | v | v | v | v | v | v | v | v | v | v | v | v | - | v |
| | 5 | v | v | v | v | - | - | v | v | v | v | v | v | - | v |
| | 12 | v | v | v | v | - | - | v | v | v | v | v | v | v | v |
| | 17 | - | - | v | v | - | - | v | v | v | v | v | v | - | v |
| | 41 | - | - | v | v | v | v | v | v | v | - | v | v | - | v |
| Conducted Spurious Emission | 2 | v | v | v | v | v | v | v | v | v | - | - | v | v | v |
| | 4 | v | v | v | v | v | v | v | v | v | - | - | v | v | v |
| | 5 | v | v | v | v | - | - | v | v | v | - | - | v | v | v |
| | 12 | v | v | v | v | - | - | v | v | v | v | v | v | v | v |
| | 17 | - | - | v | v | - | - | v | v | v | - | - | v | v | v |
| | 41 | - | - | v | v | v | v | v | v | v | - | - | v | v | v |
| Frequency Stability | 2 | v | - | - | - | - | - | v | v | v | - | - | v | v | v |
| | 4 | v | - | - | - | - | - | v | v | v | - | - | v | v | v |
| | 5 | v | - | - | - | - | - | v | v | v | - | - | v | v | v |
| | 12 | v | - | - | - | - | - | v | v | v | - | - | v | v | v |

| | | | | | | | | | | | | | | | |
|----------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 17 | - | - | v | - | - | - | v | v | v | - | - | v | v | v |
| | 41 | - | - | v | - | - | - | v | v | v | - | - | v | v | v |
| E.R.P./E.I.R.P. | 2 | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 4 | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 5 | v | v | v | v | - | - | v | v | v | v | v | v | v | v |
| | 12 | v | v | v | v | - | - | v | v | v | v | v | v | v | v |
| | 17 | - | - | v | v | - | - | v | v | v | v | v | v | v | v |
| | 41 | - | - | v | v | v | v | v | v | v | v | v | v | v | v |
| Radiated Spurious Emission | 2 | - | - | - | - | - | v | v | v | v | - | - | v | v | v |
| | 4 | - | - | - | - | - | v | v | v | v | - | - | v | v | v |
| | 5 | - | - | - | v | - | - | v | v | v | - | - | v | v | v |
| | 12 | - | - | - | v | - | - | v | v | v | - | - | v | v | v |
| | 17 | - | - | - | v | - | - | v | v | v | - | - | v | v | v |
| | 41 | - | - | - | - | - | v | v | v | v | - | - | v | v | v |
| Note | <ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. | | | | | | | | | | | | | | |

3.2. Description of Support Units

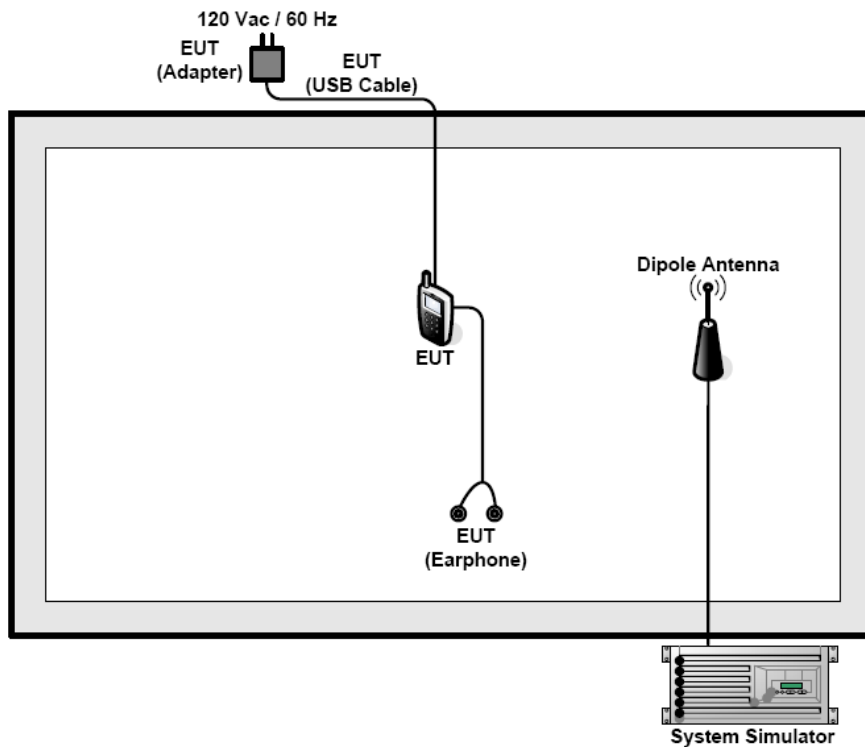
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Equipment | Model No. | Serial No. | FCC ID | Trade Name |
|-----------|-----------|------------|--------|------------|
| / | / | / | / | / |

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3.3. Configuration of Tested System



3.4. Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level. The spectrum analyzer offset is derived from RF cable loss and attenuator factor.
 $Offset = RF\ cable\ loss + attenuator\ factor.$

4. Facilities and Accreditations

4.1. Facilities

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

- FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4.3. Measurement Uncertainty

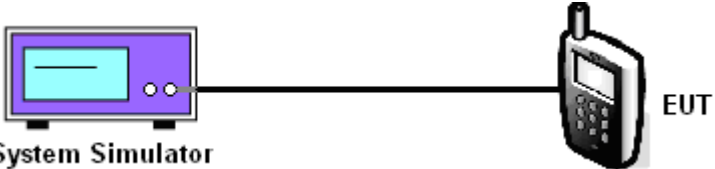
The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

| No. | Item | MU |
|-----|---|---------------|
| 1 | Conducted Emission | ± 3.10 dB |
| 2 | RF power, conducted | ± 0.12 dB |
| 3 | Spurious emissions, conducted | ± 0.11 dB |
| 4 | All emissions, radiated(<1 GHz) | ± 4.56 dB |
| 5 | All emissions, radiated(1 GHz - 18 GHz) | ± 4.22 dB |
| 6 | All emissions, radiated(18 GHz- 40 GHz) | ± 4.36 dB |

5. Test Results and Measurement Data

5.1. Effective Radiated Power and Effective Isotropic Radiated Power Measurement

5.1.1. Test Specification

| | |
|--------------------------|---|
| Test Requirement: | Refer to section 2 |
| Test Method: | FCC part 2.1046 |
| Limit: | LTE Band 2: 2W LTE Band 4: 1W LTE Band 5: 7W LTE Band 7: 2W LTE Band 12: 3W LTE Band 13: 3W LTE Band 14: 3W LTE Band 17: 3W LTE Band 25: 2W LTE Band 26-1: 100W LTE Band 26-2: 7W LTE Band 41: 2W LTE Band 66: 1W LTE Band 71: 3W |
| Test Setup: |  <p>The diagram illustrates the test setup. On the left is a purple rectangular box labeled 'System Simulator' with a screen and two small circles. A black cable connects this box to a black mobile phone on the right labeled 'EUT'.</p> |
| Test Procedure: | <ol style="list-style-type: none"> 1. The transmitter output port was connected to the system simulator. 2. Set EUT at maximum power through system simulator. 3. Select lowest, middle, highest channels for each band and different modulation. 4. Measure and record the power level from the system simulator. 5. Calculate the ERP and EIRP The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is: $\text{ERP or EIRP} = P_{\text{Meas}} + G_{\text{T}} - L_{\text{C}}$ where: ERP or EIRP = effective radiated power or equivalent |

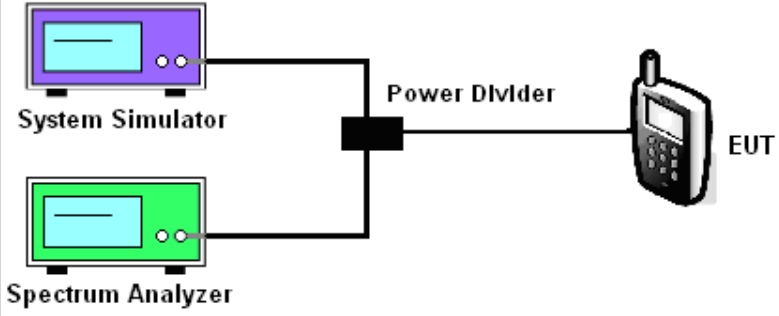
| | |
|---------------------|--|
| | <p>isotropically radiated power, respectively (expressed in the same units as P_{Meas}, typically dBW or dBm);</p> <p>P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;</p> <p>G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);</p> <p>L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.</p> <p><i>Note: For personal/portable radios utilizing an integral antenna, the factor L_C is typically negligible. However, in a fixed station transmit system that utilizes a long cable run between the transmitter and the transmitting antenna, this factor can be significant.</i></p> |
| Test Result: | PASS |

5.1.2. Test Instruments

| Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|-------------------------------------|--------------|-----------|---------------|-----------------|
| Wideband Radio Communication Tester | R&S | CMW500 | 114220 | Jan. 31, 2025 |
| Combiner Box | Ascentest | AT890-RFB | / | / |

5.2. Peak to Average Ratio

5.2.1. Test Specification

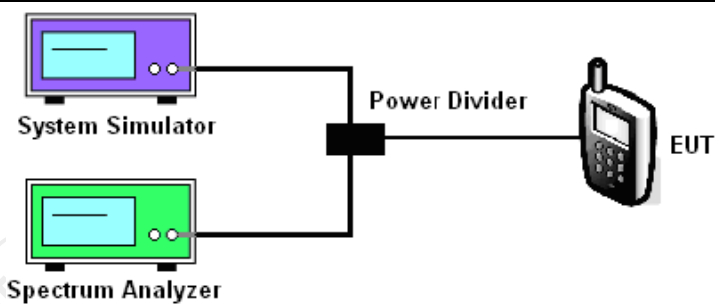
| | |
|--------------------------|--|
| Test Requirement: | Refer to section 2 |
| Test Method: | FCC KDB 971168 D01v03 |
| Limit: | The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB. |
| Test Setup: |  <p>The diagram illustrates the test setup. On the left, there are two computer monitors: the top one is labeled 'System Simulator' and the bottom one is labeled 'Spectrum Analyzer'. Both are connected to a central black box labeled 'Power Divider'. From the 'Power Divider', a single line extends to the right, connecting to a mobile phone icon labeled 'EUT'.</p> |
| Test Procedure: | <ol style="list-style-type: none"> 1. The testing follows FCC KDB 971168 D01v03 Section 5.7.1. 2. The EUT was connected to spectrum analyzer and system simulator via a power divider. 3. Set EUT to transmit at maximum output power. 4. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer. <p>Record the maximum PAPR level associated with a probability of 0.1%.</p> |
| Test Result: | PASS |

5.2.2. Test Instruments

| Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|-------------------------------------|--------------|-----------|---------------|-----------------|
| Wideband Radio Communication Tester | R&S | CMW500 | 114220 | Jan. 31, 2025 |
| Spectrum Analyzer | Agilent | N9020A | MY49100619 | Jun. 28, 2024 |
| Combiner Box | Ascentest | AT890-RFB | / | / |

5.3. 99% Occupied Bandwidth and 26dB Bandwidth Measurement

5.3.1. Test Specification

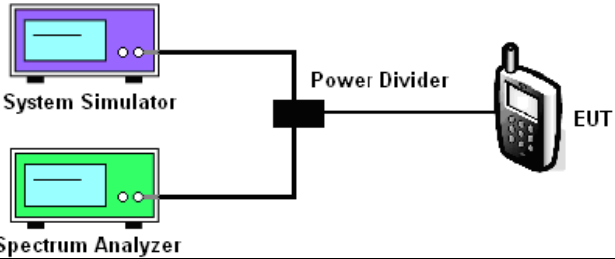
| | |
|--------------------------|---|
| Test Requirement: | Refer to section 2 |
| Test Method: | FCC part 2.1049 |
| Limit: | N/A |
| Test Setup: |  <p>The diagram illustrates the test setup. On the left, there are two instruments: a System Simulator (top) and a Spectrum Analyzer (bottom). Both are connected to a central Power Divider. The Power Divider is then connected to the EUT (Equipment Under Test), which is represented by a mobile phone icon on the right.</p> |
| Test Procedure: | <ol style="list-style-type: none"> 1. The testing follows FCC KDB 971168 D01v03 Section 4.2. 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider. 3. The RF output of the EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 4. The 99% occupied bandwidth were measured, set RBW= 1% of OBW, VBW= 3*RBW, sample detector, trace maximum hold. 5. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3*RBW, peak detector, trace maximum hold. |
| Test Result: | PASS |

5.3.2. Test Instruments

| Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|-------------------------------------|--------------|-----------|---------------|-----------------|
| Wideband Radio Communication Tester | R&S | CMW500 | 114220 | Jan. 31, 2025 |
| Spectrum Analyzer | Agilent | N9020A | MY49100619 | Jun. 28, 2024 |
| Combiner Box | Ascentest | AT890-RFB | / | / |

5.4. Band Edge and Conducted Spurious Emission Measurement

5.4.1. Test Specification

| | |
|--------------------------|--|
| Test Requirement: | Refer to section 2 |
| Test Method: | FCC part2.1051 |
| Limit: | -13dbm Band 13: -13dBm/-35dbm/-40dbm Band 41: -10dBm/-13dbm/-25dbm |
| Test Setup: |  <p>The diagram illustrates the test setup. A System Simulator (top) and a Spectrum Analyzer (bottom) are connected to a central Power Divider. The Power Divider is then connected to the EUT (Equipment Under Test), represented by a mobile phone icon.</p> |
| Test Procedure: | <ol style="list-style-type: none"> 1. The testing follows FCC KDB 971168 D01v03 Section 6.0. 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider. 3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement. 4. The band edges of low and high channels for the highest RF powers were measured. 5. The conducted spurious emission for the whole frequency range was taken. 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 7. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power $P(\text{Watts}) = P(W) - [43 + 10\log(P)] (\text{dB}) = [30 + 10\log(P)] (\text{dBm}) - [43 + 10\log(P)] (\text{dB}) = -13\text{dBm}$. For Band 17, the limit line is derived from $55 + 10\log(P)$ dB below the transmitter power |
| Test Result: | PASS |

5.4.2. Test Instruments

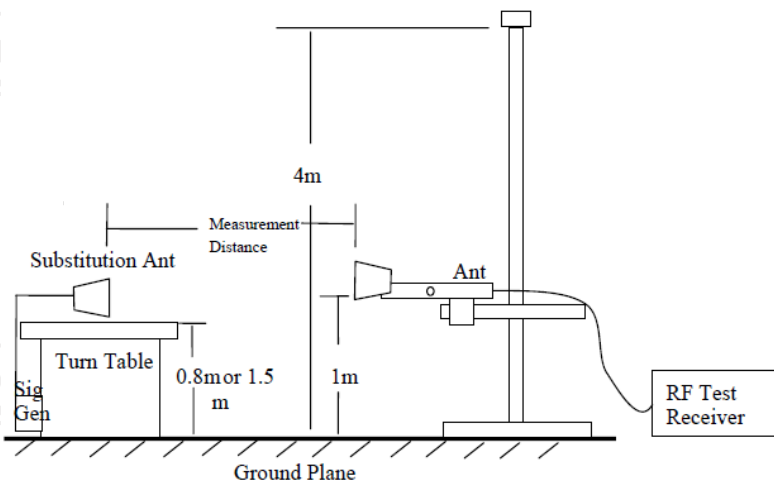
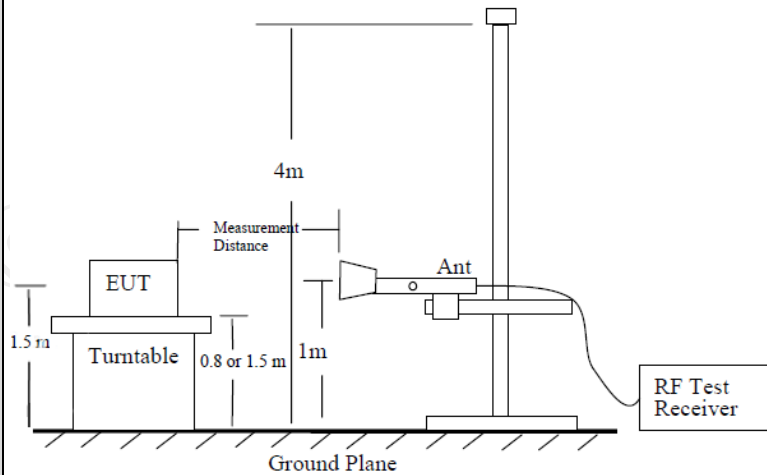
| Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|-------------------------------------|--------------|-----------|---------------|-----------------|
| Wideband Radio Communication Tester | R&S | CMW500 | 114220 | Jan. 31, 2025 |
| Spectrum Analyzer | Agilent | N9020A | MY49100619 | Jun. 28, 2024 |
| Combiner Box | Ascentest | AT890-RFB | / | / |

5.5. Field Strength of Spurious Radiation Measurement

5.5.1. Test Specification

| | |
|--------------------------|--------------------|
| Test Requirement: | Refer to section 2 |
| Test Method: | FCC part 2.1053 |
| Limit: | 30MHz~20GHz -13dBm |

Test setup:



Test Procedure:

1. The testing follows FCC KDB 971168 D01v03 Section 5.8 and ANSI / TIA-603-D-2010 Section 2.2.12.
2. The EUT was placed on a rotatable wooden table 0.8 meters above the ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical

| | |
|----------------------|--|
| | <p>polarizations.</p> <p>6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.</p> <p>7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.</p> <p>8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.</p> <p>9. Taking the record of output power at antenna port.</p> <p>10. Repeat step 7 to step 8 for another polarization.</p> <p>11. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain</p> <p>12. ERP (dBm) = EIRP - 2.15</p> <p>13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</p> <p>14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts) = P(W) - [43 + 10log(P)] (dB) = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.</p> |
| Test results: | PASS |
| Remark: | All modulations have been tested, but only the worst modulation show in this test item. |

5.5.2. Test Instruments

| Radiated Emission Test Site (966) | | | | |
|--------------------------------------|--------------------|------------|---------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
| Universal Radio Communication Tester | R&S | CMU200 | 110188 | Jun. 28, 2024 |
| Spectrum Analyzer | R&S | FSQ40 | 200061 | Jun. 29, 2024 |
| Signal Generator | Agilent | N5173B | MY58108823 | Jan. 31, 2025 |
| Broadband Antenna | Schwarzbeck | VULB9163 | 340 | Jul. 01, 2024 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 631 | Jul. 01, 2024 |
| Broadband Antenna | Schwarzbeck | VULB9163 | 412 | Jul. 01, 2024 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 1201 | Jul. 01, 2024 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | 00956 | Feb. 02, 2025 |
| Coaxial cable | SKET | RC-18G-N-M | / | Jan. 31, 2025 |
| Coaxial cable | SKET | RC_40G-K-M | / | Jan. 31, 2025 |
| Antenna Mast | Keleto | RE-AM | / | / |
| EMI Test Software | Shurple Technology | EZ-EMC | / | / |

5.5.3. Test Data

Frequency Range (9 kHz-30MHz)

| Frequency (MHz) | Level@3m (dB μ V/m) | Limit@3m (dB μ V/m) |
|-----------------|-------------------------|-------------------------|
| -- | -- | -- |
| -- | -- | -- |
| -- | -- | -- |
| -- | -- | -- |

Note: 1. Emission Level=Reading+ Cable loss+Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

| | | | |
|-------------------|----------------------------|---------------------------|---------------|
| Band | Band 2(QPSK, 20MHz) | Test channel: | Lowest |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 3720.00 | Vertical | -60.42 | 23.54 | -36.88 | -13.00 | PASS |
| 5580.00 | V | -65.54 | 23.81 | -41.73 | | |
| 7440.00 | V | -81.81 | 23.96 | -57.85 | | |
| 3720.00 | Horizontal | -58.69 | 23.54 | -35.15 | | |
| 5580.00 | H | -64.57 | 23.81 | -40.76 | | |
| 7440.00 | H | -78.03 | 23.96 | -54.07 | | |

| | | | |
|-------------------|----------------------------|---------------------------|---------------|
| Band | Band 2(QPSK, 20MHz) | Test channel: | Middle |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 3760.00 | Vertical | -60.27 | 23.58 | -36.69 | -13.00 | PASS |
| 5640.00 | V | -70.25 | 23.85 | -46.40 | | |
| 7520.00 | V | -77.82 | 23.99 | -53.83 | | |
| 3760.00 | Horizontal | -59.59 | 23.58 | -36.01 | | |
| 5640.00 | H | -65.68 | 23.85 | -41.83 | | |
| 7520.00 | H | -79.71 | 23.99 | -55.72 | | |

| | | | |
|-------------------|----------------------------|---------------------------|----------------|
| Band | Band 2(QPSK, 20MHz) | Test channel: | Highest |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 3800.00 | Vertical | -62.13 | 23.60 | -38.53 | -13.00 | PASS |
| 5700.00 | V | -70.75 | 23.88 | -46.87 | | |
| 7600.00 | V | -78.87 | 24.02 | -54.85 | | |
| 3800.00 | Horizontal | -57.44 | 23.60 | -33.84 | | |
| 5700.00 | H | -66.89 | 23.88 | -43.01 | | |
| 7600.00 | H | -80.50 | 24.02 | -56.48 | | |

| | | | |
|-------------------|-----------------------------|---------------------------|---------------|
| Band | Band 2(16QAM, 20MHz) | Test channel: | Lowest |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 3720.00 | Vertical | -60.23 | 23.54 | -36.69 | -13.00 | PASS |
| 5580.00 | V | -66.69 | 23.81 | -42.88 | | |
| 7440.00 | V | -79.54 | 23.96 | -55.58 | | |
| 3720.00 | Horizontal | -57.11 | 23.54 | -33.57 | | |
| 5580.00 | H | -64.68 | 23.81 | -40.87 | | |
| 7440.00 | H | -76.02 | 23.96 | -52.06 | | |

| | | | |
|-------------------|-----------------------------|---------------------------|---------------|
| Band | Band 2(16QAM, 20MHz) | Test channel: | Middle |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 3760.00 | Vertical | -60.17 | 23.58 | -36.59 | -13.00 | PASS |
| 5640.00 | V | -70.46 | 23.85 | -46.61 | | |
| 7520.00 | V | -78.89 | 23.99 | -54.90 | | |
| 3760.00 | Horizontal | -58.62 | 23.58 | -35.04 | | |
| 5640.00 | H | -65.20 | 23.85 | -41.35 | | |
| 7520.00 | H | -79.77 | 23.99 | -55.78 | | |

| | | | |
|-------------------|-----------------------------|---------------------------|----------------|
| Band | Band 2(16QAM, 20MHz) | Test channel: | Highest |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 3800.00 | Vertical | -61.29 | 23.60 | -37.69 | -13.00 | PASS |
| 5700.00 | V | -71.71 | 23.88 | -47.83 | | |
| 7600.00 | V | -79.54 | 24.02 | -55.52 | | |
| 3800.00 | Horizontal | -57.36 | 23.60 | -33.76 | | |
| 5700.00 | H | -66.44 | 23.88 | -42.56 | | |
| 7600.00 | H | -78.06 | 24.02 | -54.04 | | |

| | | | |
|-------------------|----------------------------|---------------------------|---------------|
| Band | Band 4(QPSK, 20MHz) | Test channel: | Lowest |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 3440.00 | Vertical | -60.25 | 23.40 | -36.85 | -13.00 | PASS |
| 5160.00 | V | -64.62 | 23.69 | -40.93 | | |
| 6880.00 | V | -79.61 | 23.75 | -55.86 | | |
| 3440.00 | Horizontal | -58.36 | 23.40 | -34.96 | | |
| 5160.00 | H | -64.84 | 23.69 | -41.15 | | |
| 6880.00 | H | -76.58 | 23.75 | -52.83 | | |

| | | | |
|-------------------|----------------------------|---------------------------|---------------|
| Band | Band 4(QPSK, 20MHz) | Test channel: | Middle |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 3465.00 | Vertical | -59.83 | 23.42 | -36.41 | -13.00 | PASS |
| 5197.50 | V | -69.75 | 23.73 | -46.02 | | |
| 6930.00 | V | -79.22 | 23.79 | -55.43 | | |
| 3465.00 | Horizontal | -56.58 | 23.42 | -33.16 | | |
| 5197.50 | H | -65.17 | 23.73 | -41.44 | | |
| 6930.00 | H | -79.54 | 23.79 | -55.75 | | |

| | | | |
|-------------------|----------------------------|---------------------------|----------------|
| Band | Band 4(QPSK, 20MHz) | Test channel: | Highest |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 3490.00 | Vertical | -61.05 | 23.46 | -37.59 | -13.00 | PASS |
| 5235.00 | V | -70.68 | 23.77 | -46.91 | | |
| 6980.00 | V | -77.72 | 23.81 | -53.91 | | |
| 3490.00 | Horizontal | -57.21 | 23.46 | -33.75 | | |
| 5235.00 | H | -67.46 | 23.77 | -43.69 | | |
| 6980.00 | H | -80.83 | 23.81 | -57.02 | | |

| | | | |
|-------------------|-----------------------------|---------------------------|---------------|
| Band | Band 4(16QAM, 20MHz) | Test channel: | Lowest |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 3440.00 | Vertical | -61.32 | 23.40 | -37.92 | -13.00 | PASS |
| 5160.00 | V | -66.76 | 23.69 | -43.07 | | |
| 6880.00 | V | -79.08 | 23.75 | -55.33 | | |
| 3440.00 | Horizontal | -59.24 | 23.40 | -35.84 | | |
| 5160.00 | H | -64.63 | 23.69 | -40.94 | | |
| 6880.00 | H | -78.15 | 23.75 | -54.40 | | |

| | | | |
|-------------------|-----------------------------|---------------------------|---------------|
| Band | Band 4(16QAM, 20MHz) | Test channel: | Middle |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 3465.00 | Vertical | -59.89 | 23.42 | -36.47 | -13.00 | PASS |
| 5197.50 | V | -71.44 | 23.73 | -47.71 | | |
| 6930.00 | V | -78.88 | 23.79 | -55.09 | | |
| 3465.00 | Horizontal | -57.78 | 23.42 | -34.36 | | |
| 5197.50 | H | -67.56 | 23.73 | -43.83 | | |
| 6930.00 | H | -79.83 | 23.79 | -56.04 | | |

| | | | |
|-------------------|-----------------------------|---------------------------|----------------|
| Band | Band 4(16QAM, 20MHz) | Test channel: | Highest |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 3490.00 | Vertical | -62.12 | 23.46 | -38.66 | -13.00 | PASS |
| 5235.00 | V | -70.36 | 23.77 | -46.59 | | |
| 6980.00 | V | -79.78 | 23.81 | -55.97 | | |
| 3490.00 | Horizontal | -58.54 | 23.46 | -35.08 | | |
| 5235.00 | H | -68.21 | 23.77 | -44.44 | | |
| 6980.00 | H | -80.57 | 23.81 | -56.76 | | |

| | | | |
|-------------------|----------------------------|---------------------------|---------------|
| Band | Band 5(QPSK, 10MHz) | Test channel: | Lowest |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 1658.00 | Vertical | -61.55 | 23.15 | -38.40 | -13.00 | PASS |
| 2487.00 | V | -65.31 | 23.24 | -42.07 | | |
| 3316.00 | V | -79.86 | 23.35 | -56.51 | | |
| 1658.00 | Horizontal | -60.27 | 23.15 | -37.12 | | |
| 2487.00 | H | -61.73 | 23.24 | -38.49 | | |
| 3316.00 | H | -78.39 | 23.35 | -55.04 | | |

| | | | |
|-------------------|----------------------------|---------------------------|---------------|
| Band | Band 5(QPSK, 10MHz) | Test channel: | Middle |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 1673.00 | Vertical | -59.01 | 23.17 | -35.84 | -13.00 | PASS |
| 2509.50 | V | -71.22 | 23.26 | -47.96 | | |
| 3346.00 | V | -78.18 | 23.38 | -54.80 | | |
| 1673.00 | Horizontal | -58.32 | 23.17 | -35.15 | | |
| 2509.50 | H | -64.09 | 23.26 | -40.83 | | |
| 3346.00 | H | -78.76 | 23.38 | -55.38 | | |

| | | | |
|-------------------|----------------------------|---------------------------|----------------|
| Band | Band 5(QPSK, 10MHz) | Test channel: | Highest |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 1688.00 | Vertical | -63.07 | 23.19 | -39.88 | -13.00 | PASS |
| 2532.00 | V | -72.41 | 23.28 | -49.13 | | |
| 3376.00 | V | -83.78 | 23.40 | -60.38 | | |
| 1688.00 | Horizontal | -57.83 | 23.19 | -34.64 | | |
| 2532.00 | H | -67.24 | 23.28 | -43.96 | | |
| 3376.00 | H | -83.45 | 23.40 | -60.05 | | |

| | | | |
|-------------------|-----------------------------|---------------------------|---------------|
| Band | Band 5(16QAM, 10MHz) | Test channel: | Lowest |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 1658.00 | Vertical | -59.23 | 23.15 | -36.08 | -13.00 | PASS |
| 2487.00 | V | -64.39 | 23.24 | -41.15 | | |
| 3316.00 | V | -79.74 | 23.35 | -56.39 | | |
| 1658.00 | Horizontal | -58.72 | 23.15 | -35.57 | | |
| 2487.00 | H | -65.56 | 23.24 | -42.32 | | |
| 3316.00 | H | -78.47 | 23.35 | -55.12 | | |

| | | | |
|-------------------|-----------------------------|---------------------------|---------------|
| Band | Band 5(16QAM, 10MHz) | Test channel: | Middle |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 1673.00 | Vertical | -59.88 | 23.17 | -36.71 | -13.00 | PASS |
| 2509.50 | V | -71.33 | 23.26 | -48.07 | | |
| 3346.00 | V | -78.64 | 23.38 | -55.26 | | |
| 1673.00 | Horizontal | -56.19 | 23.17 | -33.02 | | |
| 2509.50 | H | -66.82 | 23.26 | -43.56 | | |
| 3346.00 | H | -78.81 | 23.38 | -55.43 | | |

| | | | |
|-------------------|-----------------------------|---------------------------|----------------|
| Band | Band 5(16QAM, 10MHz) | Test channel: | Highest |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 1688.00 | Vertical | -62.75 | 23.19 | -39.56 | -13.00 | PASS |
| 2532.00 | V | -71.29 | 23.28 | -48.01 | | |
| 3376.00 | V | -79.73 | 23.40 | -56.33 | | |
| 1688.00 | Horizontal | -58.56 | 23.19 | -35.37 | | |
| 2532.00 | H | -67.98 | 23.28 | -44.70 | | |
| 3376.00 | H | -82.10 | 23.40 | -58.70 | | |

| | | | |
|-------------------|-----------------------------|---------------------------|---------------|
| Band | Band 12(QPSK, 10MHz) | Test channel: | Lowest |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 1408.00 | Vertical | -60.65 | 23.03 | -37.62 | -13.00 | PASS |
| 2112.00 | V | -66.83 | 23.16 | -43.67 | | |
| 2816.00 | V | -81.74 | 23.25 | -58.49 | | |
| 1408.00 | Horizontal | -60.86 | 23.03 | -37.83 | | |
| 2112.00 | H | -63.19 | 23.16 | -40.03 | | |
| 2816.00 | H | -78.72 | 23.25 | -55.47 | | |

| | | | |
|-------------------|-----------------------------|---------------------------|---------------|
| Band | Band 12(QPSK, 10MHz) | Test channel: | Middle |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 1415.00 | Vertical | -60.18 | 23.05 | -37.13 | -13.00 | PASS |
| 2122.50 | V | -70.91 | 23.18 | -47.73 | | |
| 2830.00 | V | -79.45 | 23.28 | -56.17 | | |
| 1415.00 | Horizontal | -57.37 | 23.05 | -34.32 | | |
| 2122.50 | H | -63.99 | 23.18 | -40.81 | | |
| 2830.00 | H | -77.36 | 23.28 | -54.08 | | |

| | | | |
|-------------------|-----------------------------|---------------------------|----------------|
| Band | Band 12(QPSK, 10MHz) | Test channel: | Highest |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 1422.00 | Vertical | -63.24 | 23.08 | -40.16 | -13.00 | PASS |
| 2133.00 | V | -72.01 | 23.20 | -48.81 | | |
| 2844.00 | V | -82.93 | 23.31 | -59.62 | | |
| 1422.00 | Horizontal | -58.16 | 23.08 | -35.08 | | |
| 2133.00 | H | -66.58 | 23.20 | -43.38 | | |
| 2844.00 | H | -82.32 | 23.31 | -59.01 | | |

| | | | |
|-------------------|------------------------------|---------------------------|---------------|
| Band | Band 12(16QAM, 10MHz) | Test channel: | Lowest |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 1408.00 | Vertical | -61.04 | 23.03 | -38.01 | -13.00 | PASS |
| 2112.00 | V | -63.62 | 23.16 | -40.46 | | |
| 2816.00 | V | -80.86 | 23.25 | -57.61 | | |
| 1408.00 | Horizontal | -58.28 | 23.03 | -35.25 | | |
| 2112.00 | H | -64.45 | 23.16 | -41.29 | | |
| 2816.00 | H | -78.27 | 23.25 | -55.02 | | |

| | | | |
|-------------------|------------------------------|---------------------------|---------------|
| Band | Band 12(16QAM, 10MHz) | Test channel: | Middle |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 1415.00 | Vertical | -59.19 | 23.05 | -36.14 | -13.00 | PASS |
| 2122.50 | V | -71.03 | 23.18 | -47.85 | | |
| 2830.00 | V | -78.65 | 23.28 | -55.37 | | |
| 1415.00 | Horizontal | -59.21 | 23.05 | -36.16 | | |
| 2122.50 | H | -66.18 | 23.18 | -43.00 | | |
| 2830.00 | H | -78.77 | 23.28 | -55.49 | | |

| | | | |
|-------------------|------------------------------|---------------------------|----------------|
| Band | Band 12(16QAM, 10MHz) | Test channel: | Highest |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 1422.00 | Vertical | -61.12 | 23.08 | -38.04 | -13.00 | PASS |
| 2133.00 | V | -70.95 | 23.20 | -47.75 | | |
| 2844.00 | V | -78.08 | 23.31 | -54.77 | | |
| 1422.00 | Horizontal | -57.76 | 23.08 | -34.68 | | |
| 2133.00 | H | -67.71 | 23.20 | -44.51 | | |
| 2844.00 | H | -80.83 | 23.31 | -57.52 | | |

| | | | |
|-------------------|-----------------------------|---------------------------|---------------|
| Band | Band 17(QPSK, 10MHz) | Test channel: | Lowest |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 1418.00 | Vertical | -60.88 | 23.06 | -37.82 | -13.00 | PASS |
| 2127.00 | V | -64.66 | 23.17 | -41.49 | | |
| 2836.00 | V | -81.32 | 23.27 | -58.05 | | |
| 1418.00 | Horizontal | -61.05 | 23.05 | -38.00 | | |
| 2127.00 | H | -63.56 | 23.18 | -40.38 | | |
| 2836.00 | H | -78.21 | 23.28 | -54.93 | | |

| | | | |
|-------------------|-----------------------------|---------------------------|---------------|
| Band | Band 17(QPSK, 10MHz) | Test channel: | Middle |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 1420.00 | Vertical | -58.79 | 23.07 | -35.72 | -13.00 | PASS |
| 2130.00 | V | -71.07 | 23.19 | -47.88 | | |
| 2840.00 | V | -78.74 | 23.29 | -55.45 | | |
| 1420.00 | Horizontal | -56.56 | 23.07 | -33.49 | | |
| 2130.00 | H | -65.43 | 23.19 | -42.24 | | |
| 2840.00 | H | -79.91 | 23.30 | -56.61 | | |

| | | | |
|-------------------|-----------------------------|---------------------------|----------------|
| Band | Band 17(QPSK, 10MHz) | Test channel: | Highest |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 1422.00 | Vertical | -71.08 | 23.08 | -48.00 | -13.00 | PASS |
| 2133.00 | V | -83.26 | 23.20 | -60.06 | | |
| 2844.00 | V | -56.64 | 23.31 | -33.33 | | |
| 1422.00 | Horizontal | -66.29 | 23.08 | -43.21 | | |
| 2133.00 | H | -81.32 | 23.20 | -58.12 | | |
| 2844.00 | H | -71.97 | 23.31 | -48.66 | | |

| | | | |
|-------------------|------------------------------|---------------------------|---------------|
| Band | Band 17(16QAM, 10MHz) | Test channel: | Lowest |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 1418.00 | Vertical | -59.93 | 23.06 | -36.87 | -13.00 | PASS |
| 2127.00 | V | -65.04 | 23.17 | -41.87 | | |
| 2836.00 | V | -81.19 | 23.27 | -57.92 | | |
| 1418.00 | Horizontal | -57.02 | 23.05 | -33.97 | | |
| 2127.00 | H | -65.57 | 23.18 | -42.39 | | |
| 2836.00 | H | -77.08 | 23.28 | -53.80 | | |

| | | | |
|-------------------|------------------------------|---------------------------|---------------|
| Band | Band 17(16QAM, 10MHz) | Test channel: | Middle |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 1420.00 | Vertical | -58.21 | 23.07 | -35.14 | -13.00 | PASS |
| 2130.00 | V | -70.76 | 23.19 | -47.57 | | |
| 2840.00 | V | -77.95 | 23.29 | -54.66 | | |
| 1420.00 | Horizontal | -57.77 | 23.07 | -34.70 | | |
| 2130.00 | H | -65.29 | 23.19 | -42.10 | | |
| 2840.00 | H | -79.02 | 23.30 | -55.72 | | |

| | | | |
|-------------------|------------------------------|---------------------------|----------------|
| Band | Band 17(16QAM, 10MHz) | Test channel: | Highest |
| Test mode: | | Temperature : | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 1422.00 | Vertical | -61.36 | 23.08 | -38.28 | -13.00 | PASS |
| 2133.00 | V | -70.44 | 23.20 | -47.24 | | |
| 2844.00 | V | -78.93 | 23.31 | -55.62 | | |
| 1422.00 | Horizontal | -57.51 | 23.08 | -34.43 | | |
| 2133.00 | H | -66.22 | 23.20 | -43.02 | | |
| 2844.00 | H | -80.07 | 23.31 | -56.76 | | |

| | | | |
|-------------------|-----------------------------|---------------------------|---------------|
| Band | Band 41(QPSK, 20MHz) | Test channel: | Lowest |
| Test mode: | | Temperature: | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 5012.00 | Vertical | -61.35 | 22.16 | -39.19 | -25.00 | PASS |
| 7518.00 | V | -67.16 | 22.99 | -44.17 | | |
| 10024.00 | V | -81.43 | 23.04 | -58.39 | | |
| 5012.00 | Horizontal | -61.81 | 22.16 | -39.65 | | |
| 7518.00 | H | -63.79 | 22.99 | -40.80 | | |
| 10024.00 | H | -79.97 | 23.04 | -56.93 | | |

| | | | |
|-------------------|-----------------------------|---------------------------|---------------|
| Band | Band 41(QPSK, 20MHz) | Test channel: | Middle |
| Test mode: | | Temperature: | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 5186.00 | Vertical | -62.05 | 22.76 | -39.29 | -25.00 | PASS |
| 7779.00 | V | -71.32 | 23.07 | -48.25 | | |
| 10372.00 | V | -81.68 | 23.11 | -58.57 | | |
| 5186.00 | Horizontal | -58.06 | 22.76 | -35.30 | | |
| 7779.00 | H | -64.51 | 23.07 | -41.44 | | |
| 10372.00 | H | -79.89 | 23.11 | -56.78 | | |

| | | | |
|-------------------|-----------------------------|---------------------------|----------------|
| Band | Band 41(QPSK, 20MHz) | Test channel: | Highest |
| Test mode: | | Temperature: | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 5360.00 | Vertical | -63.43 | 22.42 | -41.01 | -25.00 | PASS |
| 8040.00 | V | -73.04 | 22.33 | -50.71 | | |
| 10720.00 | V | -84.05 | 23.00 | -61.05 | | |
| 5360.00 | Horizontal | -58.82 | 22.42 | -36.40 | | |
| 8040.00 | H | -66.97 | 22.33 | -44.64 | | |
| 10720.00 | H | -83.41 | 23.00 | -60.41 | | |

| | | | |
|-------------------|------------------------------|---------------------------|---------------|
| Band | Band 41(16QAM, 20MHz) | Test channel: | Lowest |
| Test mode: | | Temperature: | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 5012.00 | Vertical | -61.35 | 22.16 | -39.19 | -25.00 | PASS |
| 7518.00 | V | -64.91 | 22.99 | -41.92 | | |
| 10024.00 | V | -82.92 | 23.04 | -59.88 | | |
| 5012.00 | Horizontal | -59.79 | 22.16 | -37.63 | | |
| 7518.00 | H | -65.56 | 22.99 | -42.57 | | |
| 10024.00 | H | -79.87 | 23.04 | -56.83 | | |

| | | | |
|-------------------|------------------------------|---------------------------|---------------|
| Band | Band 41(16QAM, 20MHz) | Test channel: | Middle |
| Test mode: | | Temperature: | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 5186.00 | Vertical | -60.83 | 22.76 | -38.07 | -25.00 | PASS |
| 7779.00 | V | -71.35 | 23.07 | -48.28 | | |
| 10372.00 | V | -79.66 | 23.11 | -56.55 | | |
| 5186.00 | Horizontal | -59.94 | 22.76 | -37.18 | | |
| 7779.00 | H | -66.91 | 23.07 | -43.84 | | |
| 10372.00 | H | -79.87 | 23.11 | -56.76 | | |

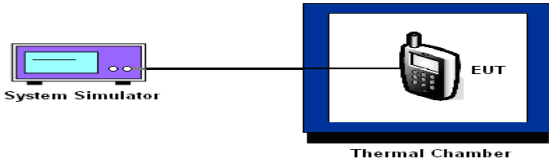
| | | | |
|-------------------|------------------------------|---------------------------|----------------|
| Band | Band 41(16QAM, 20MHz) | Test channel: | Highest |
| Test mode: | | Temperature: | 25°C |
| | | Relative Humidity: | 56% |

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
|-----------------|-------------------|-------------|------------------------|--------------------------|-------------|--------|
| | Polarization | Level (dBm) | Correction Factor (dB) | Spurious emissions (dBm) | | |
| 5360.00 | Vertical | -62.48 | 22.42 | -40.06 | -25.00 | PASS |
| 8040.00 | V | -71.65 | 22.33 | -49.32 | | |
| 10720.00 | V | -80.22 | 23.00 | -57.22 | | |
| 5360.00 | Horizontal | -59.26 | 22.42 | -36.84 | | |
| 8040.00 | H | -67.15 | 22.33 | -44.82 | | |
| 10720.00 | H | -82.04 | 23.00 | -59.04 | | |

5.6. Frequency Stability Measurement

5.6.1. Test Specification

| | |
|--------------------------|--|
| Test Requirement: | FCC part 27.54, FCC part 22.355, 24.235 |
| Test Method: | FCC Part 2.1055 |
| Limit: | ±2.5 ppm |
| Test Setup: |  <p>The diagram illustrates the test setup. On the left is a 'System Simulator' device. A line connects it to a 'Thermal Chamber' on the right. Inside the thermal chamber, an 'EUT' (Equipment Under Test) is shown.</p> |
| Test Procedure: | <p>Test Procedures for Temperature Variation</p> <ol style="list-style-type: none"> 1. The testing follows FCC KDB 971168 D01v03 Section 9.0. 2. The EUT was set up in the thermal chamber and connected with the system simulator. 3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute. 4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute. <p>Test Procedures for Voltage Variation</p> <ol style="list-style-type: none"> 1. The testing follows FCC KDB 971168 D01v03 Section 9.0. 2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator. 3. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT. 4. The variation in frequency was measured for the worst case. 5. The worst case(worst bandwidth) for frequency stability reported in the Test Data. The worst bandwidth is as follow: 1.4M is for LTE Band 2, 1.4M is for LTE Band 4, 1.4M is for LTE Band 5, 5M is for LTE Band 7, 1.4M is for LTE Band 12, 5M is for LTE Band 13, 5M is for LTE Band 14, 5M is for LTE Band 17, 1.4M is for LTE Band 25, 1.4M is for LTE Band 26-1, 1.4M is for LTE Band 26-2, 5M is for LTE Band 41, 1.4M is for LTE Band 66, 5M is for LTE Band 71 |
| Test Result: | PASS |

5.6.2. Test Instruments

| Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|---|--------------|-----------|---------------|-----------------|
| Wideband Radio Communication Tester | R&S | CMW500 | 114220 | Jan. 31, 2025 |
| Programable tempratuce and humidity chamber | JQ | JQ-2000 | / | Jun. 28, 2024 |
| DC power supply | Kingrang | KR3005K | / | Jun. 28, 2024 |
| Combiner Box | AT890-RFB | Ascentest | / | / |

Appendix B: Photographs of Test Setup

Refer to the test report No. TCT240301E019

Appendix C: Photographs of EUT

Refer to the test report No. TCT230301E009

Test Data for Appendix Refer to Appendix For LTE Band 2, Appendix For LTE Band 4, Appendix For LTE Band 5, Appendix For LTE Band 12, Appendix For LTE Band 17, Appendix For LTE Band 41

*******END OF REPORT*******