

FCC REPORT (LTE)

Applicant: Sun Cupid Technology (HK) Ltd.

Address of Applicant: 16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong.

Equipment Under Test (EUT)

Product Name: LTE Smart Phone

Model No.: S6701L, B15

Trade mark: NUU

FCC ID: 2ADINS6701L

Applicable standards:

- FCC CFR Title 47 Part 2
- FCC CFR Title 47 Part 22 Subpart H
- FCC CFR Title 47 Part 24 Subpart E
- FCC CFR Title 47 Part 27 Subpart L
- FCC CFR Title 47 Part 27 Subpart M
- FCC CFR Title 47 Part 27 Subpart H
- FCC CFR Title 47 Part 27 Subpart F
- FCC CFR Title 47 Part 90 Subpart S

Date of sample receipt: 21 Jul., 2021

Date of Test: 22 Jul., to 12 Aug., 2021

Date of report issued: 16 Aug., 2021

Authorized Signature:



Bruce Zhang

Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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Test Result: PASS*

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

2. Version

| Version No. | Date | Description |
|-------------|---------------|-------------|
| 00 | 16 Aug., 2021 | Original |
| | | |
| | | |
| | | |
| | | |

Tested by:Mike Ou**Date:**

16 Aug., 2021

Test Engineer**Reviewed by:**Winner Zhang**Date:**

16 Aug., 2021

Project Engineer

3. Contents

| | Page |
|---|------|
| 1. COVER PAGE..... | 1 |
| 2. VERSION..... | 2 |
| 3. CONTENTS..... | 3 |
| 4. TEST SUMMARY..... | 4 |
| 5. GENERAL INFORMATION..... | 6 |
| 5.1 CLIENT INFORMATION..... | 6 |
| 5.2 GENERAL DESCRIPTION OF E.U.T..... | 6 |
| 5.3 TEST ENVIRONMENT AND MODE | 17 |
| 5.4 DESCRIPTION OF SUPPORT UNITS..... | 17 |
| 5.5 MEASUREMENT UNCERTAINTY..... | 17 |
| 5.6 RELATED SUBMITTAL(S) / GRANT (S) | 17 |
| 5.7 ADDITIONS TO, DEVIATIONS, OR EXCLUSIONS FROM THE METHOD | 17 |
| 5.8 LABORATORY FACILITY | 17 |
| 5.9 LABORATORY LOCATION | 18 |
| 5.10 TEST INSTRUMENTS LIST | 18 |
| 6. TEST RESULTS..... | 19 |
| 6.1 CONDUCTED OUTPUT POWER, ERP AND EIRP | 19 |
| 6.2 PEAK-TO-AVERAGE RATIO | 20 |
| 6.3 OCCUPY BANDWIDTH | 21 |
| 6.4 OUT OF BAND EMISSION AT ANTENNA TERMINALS | 22 |
| 6.5 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT..... | 24 |
| 6.6 FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT..... | 40 |
| 6.7 FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT | 41 |
| 7. TEST SETUP PHOTO..... | 42 |
| 8. EUT CONSTRUCTIONAL DETAILS..... | 44 |

4. Test Summary

| Test Items | Section in CFR 47 | Result |
|---|--|--|
| RF Exposure (SAR) | Part 1.1307 Part 2.1093 | Passed (Please refer to SAR Report) |
| RF Output Power | Part 2.1046 Part 22.913 (a)(5) Part 24.232 (c) Part 27.50 (c)(10) Part 27.50 (d)(4) Part 27.50 (h)(2) Part 27.50 (b)(10) Part 90.635(b) | Appendix A – LTE |
| Peak-to-Average Ratio | Part 24.232 (d) Part 22.913 (d) Part 27.50(d)(5) | Appendix B – LTE |
| Modulation Characteristics | Part 2.1047 | Pass |
| 99% & -26 dB Occupied Bandwidth | Part 2.1049 Part 22.917(b) Part 24.238(b) Part 27.53(g) Part 27.53(h) Part 27.53(m) Part 90.691(a) | Appendix C – LTE |
| Out of band emission at antenna terminals | Part 2.1053 Part 22.917(a) Part 24.238 (a) Part 27.53 (g) Part 27.53 (h) Part 27.53(m) Part 27.53(c) Part 90.691(a) | Appendix D – LTE Appendix E – LTE |
| Field strength of spurious radiation | Part 22.917(a) Part 24.238 (a) Part 27.53 (g) Part 27.53 (h) Part 27.53(m) Part 27.53(c) Part 90.691(a) | Pass |
| Frequency stability vs. temperature | Part 22.355 Part 24.235 Part 27.54 Part 90.213(a) Part 2.1055(a)(1)(b) | Appendix F – LTE |
| Frequency stability vs. voltage | Part 22.355 Part 24.235 Part 27.54 Part 90.213(a) Part 2.1055(d)(2) | Appendix F – LTE |

Remark:

1. Pass: The EUT complies with the essential requirements in the standard.
2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB(Fundamental Frequency below 1GHz)/1.0dB(Fundamental Frequency above 1GHz) (provided by the customer).

Test Method:

ANSI/TIA-603-E-2016
ANSI C63.26-2015

5. General Information

5.1 Client Information

| | |
|---------------|--|
| Applicant: | Sun Cupid Technology (HK) Ltd. |
| Address: | 16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong. |
| Manufacturer: | Sun Cupid Technology (HK) Ltd. |
| Address: | 16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong. |
| Factory: | Suncupid (ShenZhen) Electronic Ltd |
| Address: | Baolong Industrial City, Longgang District, Shenzhen Hi-Tech Road, Building 1, A 7, China. |

5.2 General Description of E.U.T.

| | | | |
|----------------------------|--|--|---|
| Product Name: | LTE Smart Phone | | |
| Model No.: | S6701L, B15 | | |
| Operation Frequency range: | LTE Band 2: LTE Band 4: LTE Band 5: LTE Band 12: LTE Band 13: LTE Band 25: LTE Band 26: LTE Band 41: LTE Band 66: | TX: 1850MHz-1910MHz TX: 1710MHz-1755MHz TX: 824MHz-849MHz TX: 699MHz-716MHz TX: 777MHz-787MHz TX: 1850 MHz-1915 MHz TX: 814MHz-849MHz TX: 2535MHz-2655MHz TX: 1710MHz-1780MHz | RX: 1930MHz-1990MHz RX: 2110MHz-2155MHz RX: 869MHz-894MHz RX: 729MHz-746MHz RX: 746MHz-756MHz RX: 1930 MHz-1995 MHz RX: 859MHz-894MHz RX: 2535MHz-2655MHz RX: 2110MHz-2200MHz |
| Modulation type: | <input checked="" type="checkbox"/> QPSK | <input checked="" type="checkbox"/> 16QAM | <input checked="" type="checkbox"/> 64QAM |
| Antenna type: | Internal Antenna | | |
| Antenna gain: | LTE Band 2: LTE Band 4: LTE Band 5: LTE Band 12: LTE Band 13: LTE Band 25: LTE Band 26: LTE Band 41: LTE Band 66: | 0.5 dBi(declare by Applicant) 0.5 dBi(declare by Applicant) | |
| Power supply: | Rechargeable Li-ion Polymer Battery DC3.85V, Rated capacity 4900 mAh, typical capacity 5000mAh | | |
| AC adapter: | Model: TPA-10120150UU Input: AC100-240V, 50/60Hz, 0.6A Output: DC 3.6~6.0V, 3A ; DC 6.0~9.0V, 2A ; DC 9.0-12.0V, 1.5A | | |
| Remark: | Model No.: S6701L, B15 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name. | | |
| Test Sample Condition: | The applicant provided engineering samples for staying in continuously transmitting for testing. | | |

Operation Frequency List:

| LTE Band 2 (1.4MHz) | | LTE Band 2 (3MHz) | |
|---------------------|-----------------|--------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 18607 | 1850.70 | 18615 | 1851.50 |
| 18608 | 1850.80 | 18616 | 1851.60 |
| | | | |
| 18899 | 1879.90 | 18899 | 1879.90 |
| 18900 | 1880.00 | 18900 | 1880.00 |
| 18901 | 1880.10 | 18901 | 1880.10 |
| ... | ... | ... | ... |
| 19193 | 1909.20 | 19185 | 1908.40 |
| 19194 | 1909.30 | 19186 | 1908.50 |
| LTE Band 2 (5MHz) | | LTE Band 2 (10MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 18625 | 1852.50 | 18650 | 1855.00 |
| 18626 | 1852.60 | 18651 | 1855.10 |
| | | | |
| 18899 | 1879.90 | 18899 | 1879.90 |
| 18900 | 1880.00 | 18900 | 1880.00 |
| 18901 | 1880.10 | 18901 | 1880.10 |
| ... | ... | ... | ... |
| 19175 | 1907.40 | 19150 | 1904.90 |
| 19176 | 1907.50 | 19151 | 1905.00 |
| LTE Band 2 (15MHz) | | LTE Band 2 (20MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 18675 | 1857.50 | 18700 | 1860.00 |
| 18676 | 1857.60 | 18701 | 1860.10 |
| | | | |
| 18899 | 1879.90 | 18899 | 1879.90 |
| 18900 | 1880.00 | 18900 | 1880.00 |
| 18901 | 1880.10 | 18901 | 1880.10 |
| ... | ... | ... | ... |
| 19125 | 1902.40 | 19100 | 1899.90 |
| 19126 | 1902.50 | 19101 | 1900.00 |

| LTE Band 4 (1.4MHz) | | LTE Band 4 (3MHz) | |
|---------------------|-----------------|--------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 19957 | 1710.70 | 19965 | 1711.50 |
| 19958 | 1710.80 | 19966 | 1711.60 |
| | | | |
| 20174 | 1732.40 | 20174 | 1732.40 |
| 20175 | 1732.50 | 20175 | 1732.50 |
| 20176 | 1732.60 | 20176 | 1732.60 |
| ... | ... | ... | ... |
| 20392 | 1754.20 | 20384 | 1753.40 |
| 20393 | 1754.30 | 20385 | 1753.50 |
| LTE Band 4 (5MHz) | | LTE Band 4 (10MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 19975 | 1712.50 | 20000 | 1715.00 |
| 19976 | 1712.60 | 20001 | 1715.10 |
| | | | |
| 20174 | 1732.40 | 20174 | 1732.40 |
| 20175 | 1732.50 | 20175 | 1732.50 |
| 20176 | 1732.60 | 20176 | 1732.60 |
| ... | ... | ... | ... |
| 20374 | 1752.40 | 20349 | 1749.90 |
| 20375 | 1752.50 | 20350 | 1750.00 |
| LTE Band 4 (15MHz) | | LTE Band 4 (20MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 20025 | 1717.50 | 20050 | 1720.00 |
| 20026 | 1717.60 | 20051 | 1720.10 |
| | | | |
| 20174 | 1732.40 | 20174 | 1732.40 |
| 20175 | 1732.50 | 20175 | 1732.50 |
| 20176 | 1732.60 | 20176 | 1732.60 |
| ... | ... | ... | ... |
| 20324 | 1747.40 | 20299 | 1744.90 |
| 20325 | 1747.50 | 20300 | 1745.00 |

| LTE Band 5 (1.4MHz) | | LTE Band 5 (3MHz) | |
|---------------------|-----------------|--------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 20407 | 824.70 | 20415 | 825.50 |
| 20408 | 824.80 | 20416 | 825.60 |
| | | | |
| 20524 | 836.40 | 20524 | 836.40 |
| 20525 | 836.50 | 20525 | 836.50 |
| 20526 | 836.60 | 20526 | 836.60 |
| ... | ... | ... | ... |
| 20642 | 848.20 | 20634 | 847.40 |
| 20643 | 848.30 | 20635 | 847.50 |
| LTE Band 5 (5MHz) | | LTE Band 5 (10MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 20425 | 826.50 | 20450 | 829.00 |
| 20426 | 826.60 | 20451 | 829.10 |
| | | | |
| 20524 | 836.40 | 20524 | 836.40 |
| 20525 | 836.50 | 20525 | 836.50 |
| 20526 | 836.60 | 20526 | 836.60 |
| ... | ... | ... | ... |
| 20624 | 846.40 | 20599 | 839.90 |
| 20625 | 846.50 | 20600 | 844.00 |

| LTE Band 12 (1.4MHz) | | LTE Band 12 (3MHz) | |
|----------------------|-----------------|---------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 23017 | 699.70 | 23025 | 700.50 |
| 23756 | 699.80 | 23026 | 700.60 |
| | | | |
| 23094 | 707.40 | 23094 | 707.40 |
| 23095 | 707.50 | 23095 | 707.50 |
| 23096 | 707.60 | 23096 | 707.60 |
| ... | ... | ... | ... |
| 23172 | 715.20 | 23164 | 714.40 |
| 23173 | 715.30 | 23165 | 714.50 |
| LTE Band 12 (5MHz) | | LTE Band 12 (10MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 23035 | 701.50 | 23060 | 704.00 |
| 23036 | 701.60 | 23061 | 704.10 |
| | | | |
| 23094 | 707.40 | 23094 | 707.40 |
| 23095 | 707.50 | 23095 | 707.50 |
| 23096 | 707.60 | 23096 | 707.60 |
| ... | ... | ... | ... |
| 23154 | 713.40 | 23129 | 710.90 |
| 23155 | 713.50 | 23130 | 711.00 |

| LTE Band 13 (5MHz) | | LTE Band 13 (10MHz) | |
|--------------------|-----------------|---------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 23205 | 779.50 | / | / |
| 23206 | 779.60 | / | / |
| | | / | / |
| 23229 | 781.90 | / | / |
| 23230 | 782.00 | 23230 | 782.00 |
| 23231 | 782.10 | / | / |
| ... | ... | / | / |
| 23255 | 784.50 | / | / |
| 23256 | 784.60 | / | / |

| LTE Band 25 (1.4MHz) | | LTE Band 25 (3MHz) | |
|----------------------|-----------------|---------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 26047 | 1850.70 | 26055 | 1851.50 |
| 26048 | 1850.80 | 26056 | 1851.60 |
| | | | |
| 26364 | 1882.40 | 26367 | 1882.40 |
| 26365 | 1882.50 | 26365 | 1882.50 |
| 26366 | 1882.60 | 26366 | 1882.60 |
| ... | ... | ... | ... |
| 26682 | 1914.20 | 26676 | 1913.40 |
| 26683 | 1914.30 | 26675 | 1913.50 |
| LTE Band 25 (5MHz) | | LTE Band 25 (10MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 26065 | 1852.50 | 26090 | 1855.00 |
| 26066 | 1852.60 | 26091 | 1855.10 |
| | | | |
| 26364 | 1882.40 | 26364 | 1882.40 |
| 26365 | 1882.50 | 26365 | 1882.50 |
| 26366 | 1882.60 | 26366 | 1882.60 |
| ... | ... | ... | ... |
| 26664 | 1912.40 | 26639 | 1909.90 |
| 26665 | 1912.50 | 26640 | 1910.00 |
| LTE Band 25 (15MHz) | | LTE Band 25 (20MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 26115 | 1857.50 | 26140 | 1860.00 |
| 26116 | 1857.60 | 26139 | 1860.10 |
| | | | |
| 26364 | 1882.40 | 26364 | 1882.40 |
| 26365 | 1882.50 | 26365 | 1882.50 |
| 36366 | 1882.60 | 26366 | 1882.60 |
| ... | ... | ... | ... |
| 26614 | 1907.40 | 26589 | 1904.90 |
| 26615 | 1907.50 | 26590 | 1905.00 |

| LTE Band 26 (1.4MHz) | | LTE Band 26 (3MHz) | |
|----------------------|-----------------|---------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 26697 | 814.70 | 26705 | 815.50 |
| 26698 | 814.80 | 26706 | 815.60 |
| | | | |
| 26864 | 831.40 | 26864 | 831.40 |
| 26865 | 831.50 | 26865 | 831.50 |
| 26866 | 831.60 | 26866 | 831.60 |
| ... | ... | ... | ... |
| 27032 | 848.20 | 27024 | 847.40 |
| 27033 | 848.30 | 27025 | 847.50 |
| LTE Band 26 (5MHz) | | LTE Band 26 (10MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 26715 | 816.50 | 26750 | 820.00 |
| 26716 | 816.60 | 26760 | 820.10 |
| | | | |
| 26864 | 831.40 | 26864 | 831.40 |
| 26865 | 831.50 | 26865 | 831.50 |
| 26866 | 831.60 | 26866 | 831.60 |
| ... | ... | ... | ... |
| 27014 | 846.40 | 26980 | 843.90 |
| 27015 | 846.50 | 26990 | 844.00 |
| LTE Band 26 (15MHz) | | | |
| Channel | Frequency (MHz) | | |
| 26775 | 822.50 | | |
| 26776 | 822.60 | | |
| | | | |
| 26864 | 831.40 | | |
| 26865 | 831.50 | | |
| 26866 | 831.60 | | |
| ... | ... | | |
| 26964 | 841.40 | | |
| 26965 | 841.50 | | |

| LTE Band 41 (5MHz) | | LTE Band 41 (10MHz) | |
|---------------------|-----------------|---------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 40065 | 2537.50 | 40090 | 2540.00 |
| 40066 | 2537.60 | 40091 | 2540.10 |
| | | | |
| 40639 | 2594.90 | 40639 | 2594.90 |
| 40640 | 2595.00 | 40640 | 2595.00 |
| 40641 | 2595.10 | 40641 | 2595.10 |
| ... | ... | ... | ... |
| 41214 | 2652.40 | 41189 | 2649.90 |
| 41215 | 2652.50 | 41190 | 2650.00 |
| LTE Band 41 (15MHz) | | LTE Band 41 (20MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 40115 | 2542.50 | 40140 | 2545.00 |
| 40116 | 2542.60 | 40141 | 2545.10 |
| | | | |
| 40639 | 2594.90 | 40639 | 2594.90 |
| 40640 | 2595.00 | 40640 | 2595.00 |
| 40641 | 2595.10 | 40641 | 2595.10 |
| ... | ... | ... | ... |
| 41164 | 2647.40 | 41139 | 2644.90 |
| 41165 | 2647.50 | 41140 | 2645.00 |

| LTE Band 66 (1.4MHz) | | LTE Band 66 (3MHz) | |
|----------------------|-----------------|---------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 131979 | 1710.70 | 131987 | 1711.50 |
| 131980 | 1710.80 | 131988 | 1711.60 |
| | | | |
| 132321 | 1744.90 | 132321 | 1744.90 |
| 132322 | 1745.00 | 132322 | 1745.00 |
| 132323 | 1745.10 | 132323 | 1745.10 |
| ... | ... | ... | ... |
| 132664 | 1779.20 | 132656 | 1778.40 |
| 132665 | 1779.30 | 132657 | 1778.50 |
| LTE Band 66 (5MHz) | | LTE Band 66 (10MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 131997 | 1712.50 | 132022 | 1715.00 |
| 131998 | 1712.60 | 132023 | 1715.10 |
| | | | |
| 132321 | 1744.90 | 132321 | 1744.90 |
| 132322 | 1745.00 | 132322 | 1745.00 |
| 132323 | 1745.10 | 132323 | 1745.10 |
| ... | ... | ... | ... |
| 136246 | 1777.40 | 132621 | 1774.90 |
| 136247 | 1777.50 | 132622 | 1775.00 |
| LTE Band 66 (15MHz) | | LTE Band 66 (20MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 132047 | 1717.50 | 132072 | 1720.00 |
| 132048 | 1717.60 | 132073 | 1720.10 |
| | | | |
| 132321 | 1744.90 | 132321 | 1744.90 |
| 132322 | 1745.00 | 132322 | 1745.00 |
| 132323 | 1745.10 | 132323 | 1745.10 |
| ... | ... | ... | ... |
| 132596 | 1772.40 | 132571 | 1769.90 |
| 132597 | 1772.50 | 132572 | 1770.00 |

Regarding to the operating frequency range, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channels as below:

| LTE Band 12(1.4MHz) | | | LTE Band 12(3MHz) | | |
|---------------------|-------|-----------------|--------------------|-------|-----------------|
| Channel | | Frequency (MHz) | Channel | | Frequency (MHz) |
| Lowest channel | 23017 | 699.70 | Lowest channel | 23025 | 700.50 |
| Middle channel | 23095 | 707.50 | Middle channel | 23095 | 707.50 |
| Highest channel | 23173 | 715.30 | Highest channel | 23165 | 714.50 |
| LTE Band 12(5MHz) | | | LTE Band 12(10MHz) | | |
| Channel | | Frequency (MHz) | Channel | | Frequency (MHz) |
| Lowest channel | 23035 | 701.50 | Lowest channel | 23060 | 704.00 |
| Middle channel | 23095 | 707.50 | Middle channel | 23095 | 707.50 |
| Highest channel | 23155 | 713.50 | Highest channel | 23130 | 711.00 |

| LTE Band 13(5MHz) | | | LTE Band 13(10MHz) | | |
|-------------------|-------|-----------------|--------------------|-------|-----------------|
| Channel | | Frequency (MHz) | Channel | | Frequency (MHz) |
| Lowest channel | 23205 | 779.5 | Lowest channel | / | / |
| Middle channel | 23230 | 782.0 | Middle channel | 23230 | 782.00 |
| Highest channel | 23255 | 784.5 | Highest channel | / | / |

LTE Band 25 includes LTE Band 2:

| LTE Band 25 (1.4MHz) | | | LTE Band 25 (3MHz) | | |
|----------------------|-------|-----------------|---------------------|-------|-----------------|
| Channel: | | Frequency (MHz) | Channel | | Frequency (MHz) |
| Lowest channel | 26047 | 1850.70 | Lowest channel | 26055 | 1851.50 |
| Middle channel | 26365 | 1882.50 | Middle channel | 26365 | 1882.50 |
| Highest channel | 26683 | 1914.30 | Highest channel | 26675 | 1913.50 |
| LTE Band 25 (5MHz) | | | LTE Band 25 (10MHz) | | |
| Channel | | Frequency (MHz) | Channel | | Frequency (MHz) |
| Lowest channel | 26065 | 1852.50 | Lowest channel | 26090 | 1855.00 |
| Middle channel | 26365 | 1882.50 | Middle channel | 26365 | 1882.50 |
| Highest channel | 26665 | 1912.50 | Highest channel | 26640 | 1910.00 |
| LTE Band 25 (15MHz) | | | LTE Band 25 (20MHz) | | |
| Channel | | Frequency (MHz) | Channel | | Frequency (MHz) |
| Lowest channel | 26115 | 1857.50 | Lowest channel | 26140 | 1860.00 |
| Middle channel | 26365 | 1882.50 | Middle channel | 26365 | 1882.50 |
| Highest channel | 26615 | 1907.50 | Highest channel | 26590 | 1905.00 |

LTE Band 26(Part 22) includes LTE Band 5:

| LTE Band 5&26(1.4MHz) for Part 22 | | | LTE Band 26(1.4MHz) for Part 90 | | |
|-----------------------------------|-------|-----------------|---|-------|-----------------|
| Channel | | Frequency (MHz) | Channel | | Frequency (MHz) |
| Lowest channel | 26797 | 824.7 | Lowest channel | 26697 | 814.7 |
| Middle channel | 26915 | 836.5 | Middle channel | 26740 | 819.0 |
| Highest channel | 27033 | 848.3 | Highest channel | 26783 | 823.3 |
| LTE Band 5&26(3MHz) for Part 22 | | | LTE Band 26(3MHz) for Part 90 | | |
| Channel | | Frequency (MHz) | Channel | | Frequency (MHz) |
| Lowest channel | 26805 | 825.5 | Lowest channel | 26705 | 815.5 |
| Middle channel | 26915 | 836.5 | Middle channel | 26740 | 819.0 |
| Highest channel | 27025 | 847.5 | Highest channel | 26775 | 822.5 |
| LTE Band 5&26(5MHz) for Part 22 | | | LTE Band 26(5MHz) for Part 90 | | |
| Channel | | Frequency (MHz) | Channel | | Frequency (MHz) |
| Lowest channel | 26815 | 826.5 | Lowest channel | 26715 | 816.5 |
| Middle channel | 26915 | 836.5 | Middle channel | 26740 | 819.0 |
| Highest channel | 27015 | 846.5 | Highest channel | 26765 | 821.5 |
| LTE Band 5&26(10MHz) for Part 22 | | | LTE Band 26(10MHz) for Part 90 | | |
| Channel | | Frequency (MHz) | Channel | | Frequency (MHz) |
| Lowest channel | 26840 | 829.0 | Lowest channel | / | / |
| Middle channel | 26915 | 836.5 | Middle channel | 26740 | 819.0 |
| Highest channel | 26990 | 844.0 | Highest channel | / | / |
| LTE Band 26(15MHz) for Part 22H | | | LTE Band 26(15MHz) (Straddling Part 22H, 90S) | | |
| Channel | | Frequency (MHz) | Channel | | Frequency (MHz) |
| Lowest channel | 26865 | 831.5 | Lowest channel | 26765 | 821.5 |
| Middle Channel | 26915 | 836.5 | / | / | / |
| Highest channel | 26965 | 841.5 | / | / | / |

| LTE Band 41 (5MHz) | | | LTE Band 41 (10MHz) | | |
|---------------------|-------|-----------------|---------------------|-------|-----------------|
| Channel | | Frequency (MHz) | Channel | | Frequency (MHz) |
| Lowest channel | 40065 | 2537.50 | Lowest channel | 40090 | 2540.00 |
| Middle channel | 40640 | 2595.00 | Middle channel | 40640 | 2595.00 |
| Highest channel | 41215 | 2652.50 | Highest channel | 41190 | 2650.00 |
| LTE Band 41 (15MHz) | | | LTE Band 41 (20MHz) | | |
| Channel | | Frequency (MHz) | Channel | | Frequency (MHz) |
| Lowest channel | 40115 | 2542.50 | Lowest channel | 40140 | 2545.00 |
| Middle channel | 40640 | 2595.00 | Middle channel | 40640 | 2595.00 |
| Highest channel | 41165 | 2647.50 | Highest channel | 41140 | 2645.00 |

LTE Band 66 includes LTE Band 4:

| LTE Band 66 (1.4MHz) | | | LTE Band 66 (3MHz) | | |
|----------------------|--------|-----------------|---------------------|--------|-----------------|
| Channel | | Frequency (MHz) | Channel | | Frequency (MHz) |
| Lowest channel | 131979 | 1710.7 | Lowest channel | 131987 | 1711.5 |
| Middle channel | 132322 | 1745.0 | Middle channel | 132322 | 1745.0 |
| Highest channel | 132665 | 1779.3 | Highest channel | 132657 | 1778.5 |
| LTE Band 66 (5MHz) | | | LTE Band 66 (10MHz) | | |
| Channel | | Frequency (MHz) | Channel | | Frequency (MHz) |
| Lowest channel | 131997 | 1712.5 | Lowest channel | 132022 | 1715.0 |
| Middle channel | 132322 | 1745.5 | Middle channel | 132322 | 1745.0 |
| Highest channel | 132647 | 1777.5 | Highest channel | 132622 | 1775.0 |
| LTE Band 66 (15MHz) | | | LTE Band 66 (20MHz) | | |
| Channel | | Frequency (MHz) | Channel | | Frequency (MHz) |
| Lowest channel | 132047 | 1717.5 | Lowest channel | 132072 | 1720.0 |
| Middle channel | 132322 | 1745.0 | Middle channel | 132322 | 1745.0 |
| Highest channel | 132597 | 1772.5 | Highest channel | 132572 | 1770.0 |

5.3 Test environment and mode

| Operating Environment: | |
|--|--|
| Temperature: | Normal: 15°C ~ 35°C, Extreme: -30°C ~ +50°C |
| Humidity: | 20 % ~ 75 % RH |
| Atmospheric Pressure: | 1008 mbar |
| Voltage: | Nominal: 3.85Vdc, Extreme: Low 3.5Vdc, High 4.40Vdc |
| Test mode: | |
| LTE QPSK mode | Keep the EUT communication with simulated station in QPSK mode |
| LTE 16-QAM mode | Keep the EUT communication with simulated station in 16-QAM mode |
| Remark: The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report. | |

5.4 Description of Support Units

| Test Equipment | Manufacturer | Model No. | Serial No. |
|-------------------|--------------|-----------|------------|
| Simulated Station | Anritsu | MT8820C | 6201026545 |

5.5 Measurement Uncertainty

| Parameters | Expanded Uncertainty |
|-------------------------------------|----------------------|
| Radiated Emission (9kHz ~ 30MHz) | ±3.12 dB (k=2) |
| Radiated Emission (30MHz ~ 1000MHz) | ±4.32 dB (k=2) |
| Radiated Emission (1GHz ~ 18GHz) | ±5.16 dB (k=2) |
| Radiated Emission (18GHz ~ 40GHz) | ±3.20 dB (k=2) |

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Additions to, deviations, or exclusions from the method

No

5.8 Laboratory Facility

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

● **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.9 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://www.ccis-cb.com>

5.10 Test Instruments list

| Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
|------------------------------|-----------------|---------------|---------------|-------------------------|-----------------------------|
| 3m SAC | ETS | 9m*6m*6m | 966 | 01-19-2021 | 01-18-2024 |
| BiConiLog Antenna | SCHWARZBECK | VULB9163 | 497 | 03-03-2021 | 03-02-2022 |
| Biconical Antenna | SCHWARZBECK | VUBA9117 | 359 | 06-18-2020 | 06-17-2021 |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 916 | 03-03-2021 | 03-02-2022 |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 1805 | 06-18-2020 | 06-17-2021 |
| Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170582 | 06-18-2020 | 06-17-2022 |
| EMI Test Software | AUDIX | E3 | | Version: 6.110919b | |
| Pre-amplifier | HP | 8447D | 2944A09358 | 03-03-2021 | 03-02-2022 |
| Pre-amplifier | CD | PAP-1G18 | 11804 | 03-03-2021 | 03-02-2022 |
| Spectrum analyzer | Rohde & Schwarz | FSP30 | 101454 | 03-03-2021 | 03-02-2022 |
| Spectrum analyzer | Rohde & Schwarz | FSP40 | 100363 | 11-18-2020 | 11-17-2021 |
| EMI Test Receiver | Rohde & Schwarz | ESRP7 | 101070 | 03-03-2021 | 03-02-2022 |
| Spectrum Analyzer | Agilent | N9020A | MY50510123 | 11-18-2020 | 11-17-2021 |
| Signal Generator | Rohde & Schwarz | SMX | 835454/016 | 03-03-2021 | 03-02-2022 |
| Signal Generator | R&S | SMR20 | 1008100050 | 03-03-2021 | 03-02-2022 |
| RF Switch Unit | MWRFTEST | MW200 | N/A | N/A | N/A |
| Test Software | MWRFTEST | MTS8200 | | Version: 2.0.0.0 | |
| Cable | ZDECL | Z108-NJ-NJ-81 | 1608458 | 03-03-2021 | 03-02-2022 |
| Cable | MICRO-COAX | MFR64639 | K10742-5 | 03-03-2021 | 03-02-2022 |
| Cable | SUHNER | SUCOFLEX100 | 58193/4PE | 03-03-2021 | 03-02-2022 |
| DC Power Supply | XinNuoEr | WYK-10020K | 1409050110020 | 09-25-2020 | 09-24-2021 |
| Temperature Humidity Chamber | HengPu | HPGDS-500 | 20140828008 | 11-01-2020 | 10-31-2021 |
| Simulated Station | Rohde & Schwarz | CMW500 | 140493 | 07-22-2020 | 07-21-2021 |
| | | | | 07-22-2021 | 07-21-2022 |

6. Test results

6.1 Conducted Output Power, ERP and EIRP

| | | | |
|-------------------|---|--|--|
| Test Requirement: | Part 22.913(a)(5), Part 24.232(c), part 27.50(c)(10), Part 27.50(d)(4), Part 27.50 (h)(2), Part 27.50 (b)(10), Part 90.635(b) | | |
| Limit: | LTE Band 12: 3W, LTE Band 13: 3W, LTE Band 25: 2W, LTE Band 26: 7W (for Part 22H), 100W (for Part 90S), LTE Band 41: 2W, LTE Band 66: 1W | | |
| Test Setup: | <p>The diagram illustrates the test setup. On the left is a blue rectangular box labeled "System simulator" with a grey front panel. Two circular ports are visible on its right side. A horizontal line extends from the right side of the simulator to a small black rectangle labeled "ATT". From the right side of the "ATT" box, another horizontal line extends to a second blue rectangular box on the right labeled "EUT" with a black front panel.</p> | | |
| Test Procedure: | The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the CMW500. Transmitter output power was read off in dBm. | | |
| Test Instruments: | Refer to section 5.10 for details | | |
| Test mode: | Refer to section 5.3 for details | | |
| Test results: | Passed | | |

Measurement Data: Refer to Appendix A – LTE

6.2 Peak-to-Average Ratio

| | |
|-------------------|--|
| Test Requirement: | Part 22.913 (d), Part 24.232 (d), Part 27.50(d)(5), Part 22.913 (d) |
| Limit: | The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB. |
| Test Setup: | <p>System simulator</p> <p>Spectrum Analyzer</p> <p>Splitter ATT EUT</p> |
| Test Procedure: | <ol style="list-style-type: none"> 1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 Set the CCDF option in spectrum analyzer, $RBW \geq OBW$, 3 Set the EUT working in highest power level, measured and recorded the 0.1% as PAPR level. 4 Repeat step 1~3 at other frequency and modulations. |
| Test Instruments: | Refer to section 5.10 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |

Measurement Data: Refer to Appendix B – LTE

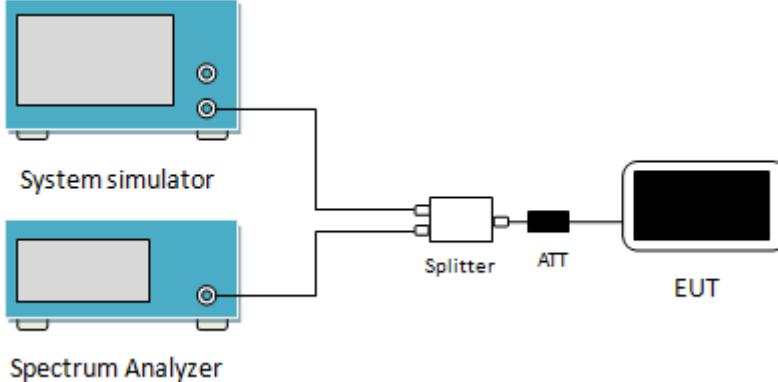
6.3 Occupy Bandwidth

| | |
|-------------------|---|
| Test Requirement: | Part 22.917(b), Part 24.238(b), Part 27.53(g), Part 27.53(h), Part 27.53(m), Part 27.53(c) |
| Test Setup: | <p style="text-align: center;">System simulator</p> <p style="text-align: center;">Spectrum Analyzer</p> <p style="text-align: center;">Splitter ATT EUT</p> |
| Test Procedure: | <ol style="list-style-type: none"> 1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer 2. RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW. 3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. |
| Test Instruments: | Refer to section 5.10 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |

Measurement Data: Refer to Appendix C – LTE

6.4 Out of band emission at antenna terminals

| | |
|-------------------|--|
| Test Requirement: | Part 22.917(a), Part 24.238 (a), part 27.53(g), part 27.53(h), Part 27.53(m), Part 27.53(c), Part 90.691(a) |
| Limit: | <p>LTE Band 12 & 25 & 26(Part 22) & 66: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB (-13 dBm).</p> <p>LTE Band 41: For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.</p> <p>LTE Band 13: Part 27.53(c) : For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following: (2)On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB; (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations; (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed; (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.</p> <p>LTE Band 26(Part 90): (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.</p> |

| | |
|-------------------|---|
| Test Setup: |  <p>System simulator</p> <p>Spectrum Analyzer</p> <p>Splitter ATT</p> <p>EUT</p> |
| Test Procedure: | <ol style="list-style-type: none"> 1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 For the out of band: For Band 5 & 12 & 17 set the RBW=100 kHz, VBW=300 kHz and for Band 2 & 4 & 7 set the RBW=1 MHz, VBW=3 MHz when below 1 GHz, RBW =1 MHz, VBW=3 MHz when above 1 GHz, Start=30MHz, Stop= 10th harmonic. 3 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. |
| Test Instruments: | Refer to section 5.10 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |
| Remark: | Pre-scan all RB Size and offset, and found the RB Size and offset of worst case, so the report shows only the worst case test data. |

Measurement Data:**Band edge emission:** Refer to Appendix D – LTE**Spurious emission:** Refer to Appendix E – LTE

6.5 Field strength of spurious radiation measurement

| | |
|-------------------|---|
| Test Requirement: | Part 22.917(a), Part 24.238 (a), part 27.53(g), part 27.53(h), Part 27.53(m), Part 27.53(c), Part 90.691(a) |
| Limit: | <p>LTE Band 12 & 13 & 25 & 26(Part 22) & 66: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB (-13 dBm).</p> <p>LTE Band 41: For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.</p> <p>LTE Band 26(Part 90): For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.</p> |
| Test setup: | <p>Below 1GHz</p> <p>Above 1GHz</p> |
| Test Procedure: | <ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. |

| | |
|-------------------|---|
| | <ol style="list-style-type: none">2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. $\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$ |
| Test Instruments: | Refer to section 5.10 for details |
| Test mode: | Refer to section 5.3 for details. |
| Test results: | Passed |

Measurement Data:
LTE Band 12 part:

| Band 12 (1.4MHz) | | | | | | |
|--|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1399.40 | -47.64 | -8.43 | -56.07 | -13.00 | 43.07 | Vertical |
| 2099.10 | -48.78 | -7.76 | -56.54 | -13.00 | 43.54 | Vertical |
| 2798.80 | -48.53 | -3.98 | -52.51 | -13.00 | 39.51 | Vertical |
| 1399.40 | -47.73 | -8.43 | -56.16 | -13.00 | 43.16 | Horizontal |
| 2099.10 | -48.28 | -7.76 | -56.04 | -13.00 | 43.04 | Horizontal |
| 2798.80 | -48.03 | -3.98 | -52.01 | -13.00 | 39.01 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1415.00 | -47.48 | -8.60 | -56.08 | -13.00 | 43.08 | Vertical |
| 2122.50 | -48.54 | -7.65 | -56.19 | -13.00 | 43.19 | Vertical |
| 2830.00 | -48.09 | -3.91 | -52.00 | -13.00 | 39.00 | Vertical |
| 1415.00 | -47.76 | -8.60 | -56.36 | -13.00 | 43.36 | Horizontal |
| 2122.50 | -48.04 | -7.65 | -55.69 | -13.00 | 42.69 | Horizontal |
| 2830.00 | -47.70 | -3.91 | -51.61 | -13.00 | 38.61 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1430.60 | -47.48 | -8.77 | -56.25 | -13.00 | 43.25 | Vertical |
| 2145.90 | -48.95 | -7.54 | -56.49 | -13.00 | 43.49 | Vertical |
| 2861.20 | -48.24 | -3.78 | -52.02 | -13.00 | 39.02 | Vertical |
| 1430.60 | -47.71 | -8.77 | -56.48 | -13.00 | 43.48 | Horizontal |
| 2145.90 | -48.68 | -7.54 | -56.22 | -13.00 | 43.22 | Horizontal |
| 2861.20 | -47.69 | -3.78 | -51.47 | -13.00 | 38.47 | Horizontal |
| <i>Remark:</i> | | | | | | |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> | | | | | | |

| Band 12 (10MHz) | | | | | | |
|-----------------|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1408.00 | -47.78 | -8.60 | -56.38 | -13.00 | 43.38 | Vertical |
| 2112.00 | -48.83 | -7.65 | -56.48 | -13.00 | 43.48 | Vertical |
| 2816.00 | -47.88 | -3.91 | -51.79 | -13.00 | 38.79 | Vertical |
| 1408.00 | -48.14 | -8.60 | -56.74 | -13.00 | 43.74 | Horizontal |
| 2112.00 | -48.38 | -7.65 | -56.03 | -13.00 | 43.03 | Horizontal |
| 2816.00 | -48.06 | -3.91 | -51.97 | -13.00 | 38.97 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1415.00 | -47.49 | -8.60 | -56.09 | -13.00 | 43.09 | Vertical |
| 2122.50 | -48.45 | -7.65 | -56.10 | -13.00 | 43.10 | Vertical |
| 2830.00 | -47.73 | -3.91 | -51.64 | -13.00 | 38.64 | Vertical |
| 1415.00 | -48.21 | -8.60 | -56.81 | -13.00 | 43.81 | Horizontal |
| 2122.50 | -48.51 | -7.65 | -56.16 | -13.00 | 43.16 | Horizontal |
| 2830.00 | -48.30 | -3.91 | -52.21 | -13.00 | 39.21 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1422.00 | -47.83 | -8.60 | -56.43 | -13.00 | 43.43 | Vertical |
| 2133.00 | -48.83 | -7.54 | -56.37 | -13.00 | 43.37 | Vertical |
| 2844.00 | -47.67 | -3.85 | -51.52 | -13.00 | 38.52 | Vertical |
| 1422.00 | -47.74 | -8.60 | -56.34 | -13.00 | 43.34 | Horizontal |
| 2133.00 | -48.56 | -7.54 | -56.10 | -13.00 | 43.10 | Horizontal |
| 2844.00 | -48.22 | -3.85 | -52.07 | -13.00 | 39.07 | Horizontal |

Remark:
The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.

LTE Band 13 part:

| Band 13 (5MHz) | | | | | | |
|-----------------|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1559.00 | -47.56 | -9.65 | -57.21 | -13.00 | 44.21 | Vertical |
| 2338.50 | -48.08 | -6.29 | -54.37 | -13.00 | 41.37 | Vertical |
| 3118.00 | -46.74 | -2.31 | -49.05 | -13.00 | 36.05 | Vertical |
| 1559.00 | -48.55 | -9.65 | -58.20 | -13.00 | 45.20 | Horizontal |
| 2338.50 | -48.52 | -6.29 | -54.81 | -13.00 | 41.81 | Horizontal |
| 3118.00 | -46.73 | -2.31 | -49.04 | -13.00 | 36.04 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1564.00 | -47.31 | -9.65 | -56.96 | -13.00 | 43.96 | Vertical |
| 2346.00 | -48.10 | -6.16 | -54.26 | -13.00 | 41.26 | Vertical |
| 3128.00 | -46.98 | -2.31 | -49.29 | -13.00 | 36.29 | Vertical |
| 1564.00 | -48.46 | -9.65 | -58.11 | -13.00 | 45.11 | Horizontal |
| 2346.00 | -48.49 | -6.16 | -54.65 | -13.00 | 41.65 | Horizontal |
| 3128.00 | -46.46 | -2.31 | -48.77 | -13.00 | 35.77 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1569.00 | -47.99 | -9.83 | -57.82 | -13.00 | 44.82 | Vertical |
| 2353.50 | -47.98 | -6.16 | -54.14 | -13.00 | 41.14 | Vertical |
| 3138.00 | -46.47 | -2.31 | -48.78 | -13.00 | 35.78 | Vertical |
| 1569.00 | -49.05 | -9.83 | -58.88 | -13.00 | 45.88 | Horizontal |
| 2353.50 | -48.74 | -6.16 | -54.90 | -13.00 | 41.90 | Horizontal |
| 3138.00 | -47.02 | -2.31 | -49.33 | -13.00 | 36.33 | Horizontal |

Remark:

The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.

| Band 13 (10MHz) | | | | | | |
|-----------------|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1564.00 | -48.47 | -9.65 | -58.12 | -13.00 | 45.12 | Vertical |
| 2346.00 | -47.73 | -6.16 | -53.89 | -13.00 | 40.89 | Vertical |
| 3128.00 | -46.15 | -2.31 | -48.46 | -13.00 | 35.46 | Vertical |
| 1564.00 | -49.23 | -9.65 | -58.88 | -13.00 | 45.88 | Horizontal |
| 2346.00 | -49.13 | -6.16 | -55.29 | -13.00 | 42.29 | Horizontal |
| 3128.00 | -47.46 | -2.31 | -49.77 | -13.00 | 36.77 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1564.00 | -48.03 | -9.65 | -57.68 | -13.00 | 44.68 | Vertical |
| 2346.00 | -47.66 | -6.16 | -53.82 | -13.00 | 40.82 | Vertical |
| 3128.00 | -46.42 | -2.31 | -48.73 | -13.00 | 35.73 | Vertical |
| 1564.00 | -48.79 | -9.65 | -58.44 | -13.00 | 45.44 | Horizontal |
| 2346.00 | -49.25 | -6.16 | -55.41 | -13.00 | 42.41 | Horizontal |
| 3128.00 | -47.91 | -2.31 | -50.22 | -13.00 | 37.22 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1564.00 | -48.42 | -9.65 | -58.07 | -13.00 | 45.07 | Vertical |
| 2346.00 | -47.38 | -6.16 | -53.54 | -13.00 | 40.54 | Vertical |
| 3128.00 | -46.91 | -2.31 | -49.22 | -13.00 | 36.22 | Vertical |
| 1564.00 | -48.31 | -9.65 | -57.96 | -13.00 | 44.96 | Horizontal |
| 2346.00 | -49.40 | -6.16 | -55.56 | -13.00 | 42.56 | Horizontal |
| 3128.00 | -47.64 | -2.31 | -49.95 | -13.00 | 36.95 | Horizontal |

Remark:
The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.

LTE Band 25 part:

| Band 25 (1.4MHz) | | | | | | |
|---|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3701.40 | -47.16 | -1.40 | -48.56 | -13.00 | 35.56 | Vertical |
| 5552.10 | -48.55 | 5.27 | -43.28 | -13.00 | 30.28 | Vertical |
| 7402.80 | -50.39 | 13.00 | -37.39 | -13.00 | 24.39 | Vertical |
| 3701.40 | -47.51 | -1.40 | -48.91 | -13.00 | 35.91 | Horizontal |
| 5552.10 | -49.64 | 5.27 | -44.37 | -13.00 | 31.37 | Horizontal |
| 7402.80 | -50.23 | 13.00 | -37.23 | -13.00 | 24.23 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3765.00 | -47.44 | -1.73 | -49.17 | -13.00 | 36.17 | Vertical |
| 5647.50 | -48.55 | 4.76 | -43.79 | -13.00 | 30.79 | Vertical |
| 7530.00 | -50.18 | 10.76 | -39.42 | -13.00 | 26.42 | Vertical |
| 3765.00 | -47.70 | -1.73 | -49.43 | -13.00 | 36.43 | Horizontal |
| 5647.50 | -49.37 | 4.76 | -44.61 | -13.00 | 31.61 | Horizontal |
| 7530.00 | -49.79 | 10.76 | -39.03 | -13.00 | 26.03 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3828.60 | -47.00 | -0.76 | -47.76 | -13.00 | 34.76 | Vertical |
| 5742.90 | -48.19 | 6.82 | -41.37 | -13.00 | 28.37 | Vertical |
| 7657.20 | -50.37 | 13.31 | -37.06 | -13.00 | 24.06 | Vertical |
| 3828.60 | -47.49 | -0.76 | -48.25 | -13.00 | 35.25 | Horizontal |
| 5742.90 | -49.85 | 6.82 | -43.03 | -13.00 | 30.03 | Horizontal |
| 7657.20 | -50.70 | 13.31 | -37.39 | -13.00 | 24.39 | Horizontal |
| Remark: | | | | | | |
| The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report. | | | | | | |

| Band 25 (20MHz) | | | | | | |
|---|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3720.00 | -46.62 | -1.28 | -47.90 | -13.00 | 34.90 | Vertical |
| 5580.00 | -48.37 | 5.36 | -43.01 | -13.00 | 30.01 | Vertical |
| 7440.00 | -50.85 | 13.04 | -37.81 | -13.00 | 24.81 | Vertical |
| 3720.00 | -47.69 | -1.28 | -48.97 | -13.00 | 35.97 | Horizontal |
| 5580.00 | -49.87 | 5.36 | -44.51 | -13.00 | 31.51 | Horizontal |
| 7440.00 | -50.37 | 13.04 | -37.33 | -13.00 | 24.33 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3465.00 | -46.22 | -1.73 | -47.95 | -13.00 | 34.95 | Vertical |
| 5197.50 | -48.15 | 4.76 | -43.39 | -13.00 | 30.39 | Vertical |
| 6930.00 | -50.86 | 10.76 | -40.10 | -13.00 | 27.10 | Vertical |
| 3465.00 | -47.94 | -1.73 | -49.67 | -13.00 | 36.67 | Horizontal |
| 5197.50 | -50.16 | 4.76 | -45.40 | -13.00 | 32.40 | Horizontal |
| 6930.00 | -50.77 | 10.76 | -40.01 | -13.00 | 27.01 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3810.00 | -45.82 | -0.83 | -46.65 | -13.00 | 33.65 | Vertical |
| 5715.00 | -47.81 | 6.72 | -41.09 | -13.00 | 28.09 | Vertical |
| 7620.00 | -51.28 | 13.58 | -37.70 | -13.00 | 24.70 | Vertical |
| 3810.00 | -47.93 | -0.83 | -48.76 | -13.00 | 35.76 | Horizontal |
| 5715.00 | -49.67 | 6.72 | -42.95 | -13.00 | 29.95 | Horizontal |
| 7620.00 | -50.44 | 13.58 | -36.86 | -13.00 | 23.86 | Horizontal |
| <i>Remark:</i> The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report. | | | | | | |

LTE Band 26 part:

| Band 26 (1.4MHz) (Part 22) | | | | | | |
|----------------------------|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1649.40 | -47.63 | -9.90 | -57.53 | -13.00 | 44.53 | Vertical |
| 2474.10 | -48.00 | -5.68 | -53.68 | -13.00 | 40.68 | Vertical |
| 3298.80 | -47.04 | -2.19 | -49.23 | -13.00 | 36.23 | Vertical |
| 1649.40 | -48.29 | -9.90 | -58.19 | -13.00 | 45.19 | Horizontal |
| 2474.10 | -46.81 | -5.68 | -52.49 | -13.00 | 39.49 | Horizontal |
| 3298.80 | -46.63 | -2.19 | -48.82 | -13.00 | 35.82 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1673.00 | -47.63 | -9.88 | -57.51 | -13.00 | 44.51 | Vertical |
| 2509.50 | -48.12 | -5.45 | -53.57 | -13.00 | 40.57 | Vertical |
| 3346.00 | -46.95 | -2.09 | -49.04 | -13.00 | 36.04 | Vertical |
| 1673.00 | -47.87 | -9.88 | -57.75 | -13.00 | 44.75 | Horizontal |
| 2509.50 | -46.93 | -5.45 | -52.38 | -13.00 | 39.38 | Horizontal |
| 3346.00 | -46.57 | -2.09 | -48.66 | -13.00 | 35.66 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1696.60 | -47.96 | -9.87 | -57.83 | -13.00 | 44.83 | Vertical |
| 2544.90 | -47.85 | -5.13 | -52.98 | -13.00 | 39.98 | Vertical |
| 3393.20 | -47.22 | -1.97 | -49.19 | -13.00 | 36.19 | Vertical |
| 1696.60 | -48.49 | -9.87 | -58.36 | -13.00 | 45.36 | Horizontal |
| 2544.90 | -47.25 | -5.13 | -52.38 | -13.00 | 39.38 | Horizontal |
| 3393.20 | -46.32 | -1.97 | -48.29 | -13.00 | 35.29 | Horizontal |

Remark:

The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.

| Band 26 (15MHz) (Part 22) | | | | | | |
|---------------------------|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1663.00 | -48.33 | -9.89 | -58.22 | -13.00 | 45.22 | Vertical |
| 2494.50 | -47.88 | -5.57 | -53.45 | -13.00 | 40.45 | Vertical |
| 3326.00 | -47.00 | -2.14 | -49.14 | -13.00 | 36.14 | Vertical |
| 1663.00 | -48.67 | -9.89 | -58.56 | -13.00 | 45.56 | Horizontal |
| 2494.50 | -46.78 | -5.57 | -52.35 | -13.00 | 39.35 | Horizontal |
| 3326.00 | -46.53 | -2.14 | -48.67 | -13.00 | 35.67 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1673.00 | -48.75 | -9.88 | -58.63 | -13.00 | 45.63 | Vertical |
| 2509.50 | -47.47 | -5.45 | -52.92 | -13.00 | 39.92 | Vertical |
| 3346.00 | -47.09 | -2.09 | -49.18 | -13.00 | 36.18 | Vertical |
| 1673.00 | -49.00 | -9.89 | -58.89 | -13.00 | 45.89 | Horizontal |
| 2509.50 | -46.89 | -5.57 | -52.46 | -13.00 | 39.46 | Horizontal |
| 3346.00 | -46.74 | -2.14 | -48.88 | -13.00 | 35.88 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1683.00 | -48.90 | -9.87 | -58.77 | -13.00 | 45.77 | Vertical |
| 2524.50 | -47.46 | -5.29 | -52.75 | -13.00 | 39.75 | Vertical |
| 3366.00 | -46.64 | -2.01 | -48.65 | -13.00 | 35.65 | Vertical |
| 1683.00 | -49.14 | -9.89 | -59.03 | -13.00 | 46.03 | Horizontal |
| 2524.50 | -46.56 | -5.57 | -52.13 | -13.00 | 39.13 | Horizontal |
| 3366.00 | -46.46 | -2.14 | -48.60 | -13.00 | 35.60 | Horizontal |

Remark:
The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.

| Band 26 (1.4MHz) (Part 90) | | | | | | |
|---|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1629.40 | -48.66 | -9.90 | -58.56 | -13.00 | 45.56 | Vertical |
| 2444.10 | -47.00 | -5.68 | -52.68 | -13.00 | 39.68 | Vertical |
| 3258.80 | -47.12 | -2.19 | -49.31 | -13.00 | 36.31 | Vertical |
| 1629.40 | -48.99 | -9.90 | -58.89 | -13.00 | 45.89 | Horizontal |
| 2444.10 | -46.32 | -5.68 | -52.00 | -13.00 | 39.00 | Horizontal |
| 3258.80 | -46.88 | -2.19 | -49.07 | -13.00 | 36.07 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1638.00 | -48.39 | -9.88 | -58.27 | -13.00 | 45.27 | Vertical |
| 2457.00 | -46.54 | -5.45 | -51.99 | -13.00 | 38.99 | Vertical |
| 3276.00 | -46.76 | -2.09 | -48.85 | -13.00 | 35.85 | Vertical |
| 1638.00 | -48.86 | -9.88 | -58.74 | -13.00 | 45.74 | Horizontal |
| 2457.00 | -46.06 | -5.45 | -51.51 | -13.00 | 38.51 | Horizontal |
| 3276.00 | -47.26 | -2.09 | -49.35 | -13.00 | 36.35 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1646.60 | -48.52 | -9.87 | -58.39 | -13.00 | 45.39 | Vertical |
| 2469.90 | -46.30 | -5.13 | -51.43 | -13.00 | 38.43 | Vertical |
| 3293.20 | -46.64 | -1.97 | -48.61 | -13.00 | 35.61 | Vertical |
| 1646.60 | -48.94 | -9.87 | -58.81 | -13.00 | 45.81 | Horizontal |
| 2469.90 | -46.43 | -5.13 | -51.56 | -13.00 | 38.56 | Horizontal |
| 3293.20 | -47.46 | -1.97 | -49.43 | -13.00 | 36.43 | Horizontal |
| <i>Remark:</i> The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report. | | | | | | |

| Band 26 (10MHz) (Part 90) | | | | | | |
|---------------------------|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1638.00 | -48.40 | -9.89 | -58.29 | -13.00 | 45.29 | Vertical |
| 2457.00 | -46.21 | -5.57 | -51.78 | -13.00 | 38.78 | Vertical |
| 3276.00 | -46.66 | -2.14 | -48.80 | -13.00 | 35.80 | Vertical |
| 1638.00 | -49.25 | -9.89 | -59.14 | -13.00 | 46.14 | Horizontal |
| 2457.00 | -46.84 | -5.57 | -52.41 | -13.00 | 39.41 | Horizontal |
| 3276.00 | -47.93 | -2.14 | -50.07 | -13.00 | 37.07 | Horizontal |

Remark:
The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.

| Band 26 (15MHz) (Part 90) | | | | | | |
|---------------------------|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1643.00 | -48.75 | -9.88 | -58.63 | -13.00 | 45.63 | Vertical |
| 2464.50 | -46.32 | -5.45 | -51.77 | -13.00 | 38.77 | Vertical |
| 3286.00 | -46.78 | -2.09 | -48.87 | -13.00 | 35.87 | Vertical |
| 1643.00 | -49.04 | -9.88 | -58.92 | -13.00 | 45.92 | Horizontal |
| 2464.50 | -47.30 | -5.45 | -52.75 | -13.00 | 39.75 | Horizontal |
| 3286.00 | -48.34 | -2.09 | -50.43 | -13.00 | 37.43 | Horizontal |

Remark:
The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.

LTE Band 41 part:

| Band 41 (5MHz) | | | | | | |
|-----------------|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 5075.00 | -48.49 | 4.56 | -43.93 | -25.00 | 18.93 | Vertical |
| 7612.50 | -49.33 | 13.14 | -36.19 | -25.00 | 11.19 | Vertical |
| 10150.00 | -50.08 | 16.89 | -33.19 | -25.00 | 8.19 | Vertical |
| 5075.00 | -48.50 | 4.56 | -43.94 | -25.00 | 18.94 | Horizontal |
| 7612.50 | -49.53 | 13.14 | -36.39 | -25.00 | 11.39 | Horizontal |
| 10150.00 | -49.10 | 16.89 | -32.21 | -25.00 | 7.21 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 5190.00 | -48.65 | 4.76 | -43.89 | -25.00 | 18.89 | Vertical |
| 7785.00 | -49.41 | 13.48 | -35.93 | -25.00 | 10.93 | Vertical |
| 10380.00 | -49.93 | 18.00 | -31.93 | -25.00 | 6.93 | Vertical |
| 5190.00 | -48.75 | 4.76 | -43.99 | -25.00 | 18.99 | Horizontal |
| 7785.00 | -49.92 | 13.48 | -36.44 | -25.00 | 11.44 | Horizontal |
| 10380.00 | -49.32 | 18.00 | -31.32 | -25.00 | 6.32 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 5125.00 | -48.19 | 5.50 | -42.69 | -25.00 | 17.69 | Vertical |
| 7687.50 | -48.84 | 13.31 | -35.53 | -25.00 | 10.53 | Vertical |
| 10250.00 | -49.91 | 19.50 | -30.41 | -25.00 | 5.41 | Vertical |
| 5125.00 | -48.59 | 5.50 | -43.09 | -25.00 | 18.09 | Horizontal |
| 7687.50 | -49.60 | 13.31 | -36.29 | -25.00 | 11.29 | Horizontal |
| 10250.00 | -48.71 | 19.50 | -29.21 | -25.00 | 4.21 | Horizontal |

Remark:
The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.

| Band 41 (20MHz) | | | | | | |
|-----------------|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 5090.00 | -48.09 | 4.56 | -43.53 | -25.00 | 18.53 | Vertical |
| 7635.00 | -49.31 | 13.29 | -36.02 | -25.00 | 11.02 | Vertical |
| 10180.00 | -50.33 | 16.93 | -33.40 | -25.00 | 8.40 | Vertical |
| 5090.00 | -48.73 | 4.56 | -44.17 | -25.00 | 19.17 | Horizontal |
| 7635.00 | -49.90 | 13.29 | -36.61 | -25.00 | 11.61 | Horizontal |
| 10180.00 | -48.67 | 16.93 | -31.74 | -25.00 | 6.74 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 5190.00 | -47.91 | 4.76 | -43.15 | -25.00 | 18.15 | Vertical |
| 7785.00 | -49.06 | 13.48 | -35.58 | -25.00 | 10.58 | Vertical |
| 10380.00 | -50.58 | 18.00 | -32.58 | -25.00 | 7.58 | Vertical |
| 5190.00 | -49.19 | 4.76 | -44.43 | -25.00 | 19.43 | Horizontal |
| 7785.00 | -49.41 | 13.48 | -35.93 | -25.00 | 10.93 | Horizontal |
| 10380.00 | -48.51 | 18.00 | -30.51 | -25.00 | 5.51 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 5290.00 | -48.38 | 5.41 | -42.97 | -25.00 | 17.97 | Vertical |
| 7935.00 | -48.58 | 13.33 | -35.25 | -25.00 | 10.25 | Vertical |
| 10580.00 | -50.67 | 19.67 | -31.00 | -25.00 | 6.00 | Vertical |
| 5290.00 | -48.86 | 5.41 | -43.45 | -25.00 | 18.45 | Horizontal |
| 7935.00 | -49.59 | 13.33 | -36.26 | -25.00 | 11.26 | Horizontal |
| 10580.00 | -48.58 | 19.67 | -28.91 | -25.00 | 3.91 | Horizontal |

Remark:
The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.

LTE Band 66 part:

| Band 66 (1.4MHz) | | | | | | |
|------------------|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3421.40 | -46.89 | -7.52 | -54.41 | -13.00 | 41.41 | Vertical |
| 5132.10 | -48.62 | -1.45 | -50.07 | -13.00 | 37.07 | Vertical |
| 6842.80 | -49.27 | 3.48 | -45.79 | -13.00 | 32.79 | Vertical |
| 3421.40 | -48.13 | -7.52 | -55.65 | -13.00 | 42.65 | Horizontal |
| 5132.10 | -48.95 | -1.45 | -50.40 | -13.00 | 37.40 | Horizontal |
| 6842.80 | -49.74 | 3.48 | -46.26 | -13.00 | 33.26 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3490.00 | -47.22 | -6.98 | -54.20 | -13.00 | 41.20 | Vertical |
| 5235.00 | -48.87 | -0.84 | -49.71 | -13.00 | 36.71 | Vertical |
| 6980.00 | -49.29 | 3.10 | -46.19 | -13.00 | 33.19 | Vertical |
| 3490.00 | -47.81 | -6.98 | -54.79 | -13.00 | 41.79 | Horizontal |
| 5235.00 | -48.46 | -0.84 | -49.30 | -13.00 | 36.30 | Horizontal |
| 6980.00 | -49.81 | 3.10 | -46.71 | -13.00 | 33.71 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3558.60 | -46.66 | -6.75 | -53.41 | -13.00 | 40.41 | Vertical |
| 5337.90 | -48.18 | -0.37 | -48.55 | -13.00 | 35.55 | Vertical |
| 7117.20 | -49.16 | 3.51 | -45.65 | -13.00 | 32.65 | Vertical |
| 3558.60 | -48.03 | -6.75 | -54.78 | -13.00 | 41.78 | Horizontal |
| 5337.90 | -48.48 | -0.37 | -48.85 | -13.00 | 35.85 | Horizontal |
| 7117.20 | -49.52 | 3.51 | -46.01 | -13.00 | 33.01 | Horizontal |

Remark:
The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.

| Band 66 (20MHz) | | | | | | |
|-----------------|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3440.00 | -46.59 | -7.39 | -53.98 | -13.00 | 40.98 | Vertical |
| 5160.00 | -48.68 | -1.22 | -49.90 | -13.00 | 36.90 | Vertical |
| 6880.00 | -48.67 | 3.66 | -45.01 | -13.00 | 32.01 | Vertical |
| 3440.00 | -48.26 | -7.39 | -55.65 | -13.00 | 42.65 | Horizontal |
| 5160.00 | -48.07 | -1.22 | -49.29 | -13.00 | 36.29 | Horizontal |
| 6880.00 | -49.78 | 3.66 | -46.12 | -13.00 | 33.12 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3490.00 | -46.74 | -6.98 | -53.72 | -13.00 | 40.72 | Vertical |
| 5235.00 | -48.76 | -0.84 | -49.60 | -13.00 | 36.60 | Vertical |
| 6980.00 | -48.25 | 3.10 | -45.15 | -13.00 | 32.15 | Vertical |
| 3490.00 | -48.05 | -6.98 | -55.03 | -13.00 | 42.03 | Horizontal |
| 5235.00 | -47.91 | -0.84 | -48.75 | -13.00 | 35.75 | Horizontal |
| 6980.00 | -49.74 | 3.10 | -46.64 | -13.00 | 33.64 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3540.00 | -46.33 | -6.81 | -53.14 | -13.00 | 40.14 | Vertical |
| 5310.00 | -49.26 | -0.55 | -49.81 | -13.00 | 36.81 | Vertical |
| 7080.00 | -48.30 | 3.37 | -44.93 | -13.00 | 31.93 | Vertical |
| 3540.00 | -47.81 | -6.81 | -54.62 | -13.00 | 41.62 | Horizontal |
| 5310.00 | -47.48 | -0.55 | -48.03 | -13.00 | 35.03 | Horizontal |
| 7080.00 | -50.19 | 3.37 | -46.82 | -13.00 | 33.82 | Horizontal |

Remark:
The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.

6.6 Frequency stability V.S. Temperature measurement

| | |
|-------------------|---|
| Test Requirement: | Part 22.355, Part 24.235, Part 27.54, Part 90.213(a), Part 2.1055(d)(2) |
| Limit: | ±2.5 ppm for Band 26 Within authorized band for Band 12 & 13 & 25 & 41 & 66 |
| Test setup: | <p>The diagram illustrates the test setup. It shows a Source Separation (SS) unit and a Spectrum Analyzer (SA) connected to a central Divider. The Divider connects to the Equipment Under Test (EUT). The EUT is placed inside a Temperature & Humidity Chamber. A Power Source is connected to the EUT. The chamber has two green circular ports.</p> |
| Test procedure: | <ol style="list-style-type: none"> 1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached |
| Test Instruments: | Refer to section 5.10 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |

Measurement Data: Refer to Appendix F – LTE

6.7 Frequency stability V.S. Voltage measurement

| | |
|-------------------|--|
| Test Requirement: | Part 22.355, Part 24.235, Part 27.54, Part 90.213(a), Part 2.1055(d)(2) |
| Limit: | ± 2.5 ppm for Band 26 Within authorized band for Band 12 & 13 & 25 & 41 & 66 |
| Test setup: | <p>The diagram illustrates the test setup. On the left, a blue box labeled 'SS' (Signal Source) and a blue box labeled 'SA' (Spectrum Analyzer) are connected to a grey rectangular component labeled 'Divider'. The 'Divider' is connected to a black rectangular component labeled 'EUT' (Equipment Under Test). The 'EUT' is situated within a large blue rectangular frame labeled 'Temperature & Humidity Chamber'. A red line connects the 'Power Source' to the 'EUT'. A ground connection is shown at the bottom right of the chamber.</p> |
| Test procedure: | <ol style="list-style-type: none"> Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change. |
| Test Instruments: | Refer to section 5.10 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |

Measurement Data: Refer to Appendix F – LTE

8 EUT Constructional Details

Reference to the test report No. JYTSZB-R12-2101402.

-----End of report-----