

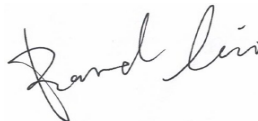
**FCC PART 27**  
**FCC PART 22H, PART 24E, PART 90**  
**TEST REPORT**

For

**ID TECH**

10721 Walker Street, Cypress California United States

**FCC ID: WQJ-AP3880P**

|                                        |                                                                                                                                                                                                                             |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report Type:</b><br>Original Report | <b>Product Name:</b><br>AP3880P                                                                                                                                                                                             |
| <b>Report Number:</b>                  | RKSA250319001-00F                                                                                                                                                                                                           |
| <b>Report Date:</b>                    | 2025-05-27                                                                                                                                                                                                                  |
| <b>Reviewed By:</b>                    | Bard Liu<br>                                                                                                                           |
| <b>Approved By:</b>                    | Kyle Xu<br>                                                                                                                             |
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Kunshan). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S.Government.

## **TABLE OF CONTENTS**

|                                                                                                                               |           |
|-------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>REPORT REVISION HISTORY.....</b>                                                                                           | <b>4</b>  |
| <b>GENERAL INFORMATION.....</b>                                                                                               | <b>5</b>  |
| PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) .....                                                                      | 5         |
| OBJECTIVE .....                                                                                                               | 6         |
| TEST METHODOLOGY .....                                                                                                        | 6         |
| MEASUREMENT UNCERTAINTY .....                                                                                                 | 7         |
| TEST FACILITY .....                                                                                                           | 7         |
| <b>SYSTEM TEST CONFIGURATION.....</b>                                                                                         | <b>8</b>  |
| JUSTIFICATION .....                                                                                                           | 8         |
| CHANNEL LIST .....                                                                                                            | 8         |
| EQUIPMENT MODIFICATIONS .....                                                                                                 | 13        |
| SUPPORT EQUIPMENT LIST AND DETAILS .....                                                                                      | 13        |
| EXTERNAL I/O CABLE.....                                                                                                       | 13        |
| BLOCK DIAGRAM OF TEST SETUP .....                                                                                             | 13        |
| <b>TEST EQUIPMENT LIST .....</b>                                                                                              | <b>15</b> |
| <b>SUMMARY OF TEST RESULTS .....</b>                                                                                          | <b>17</b> |
| <b>FCC §1.1307(B) &amp; §2.1093 - RF EXPOSURE .....</b>                                                                       | <b>18</b> |
| APPLICABLE STANDARD .....                                                                                                     | 18        |
| <b>FCC §2.1047 - MODULATION CHARACTERISTIC .....</b>                                                                          | <b>19</b> |
| <b>FCC §2.1046; § 22.913 (A); §24.232 (C); §27.50 (B) (C) (D) (H);§90.635 (B) - RF OUTPUT POWER.....</b>                      | <b>20</b> |
| APPLICABLE STANDARDS.....                                                                                                     | 20        |
| TEST PROCEDURE .....                                                                                                          | 20        |
| TEST DATA: SEE APPENDIX A .....                                                                                               | 20        |
| <b>FCC §2.1049, §22.917, §22.905 &amp; §24.238, §27.53, §90.209 - OCCUPIED BANDWIDTH .....</b>                                | <b>21</b> |
| APPLICABLE STANDARDS .....                                                                                                    | 21        |
| TEST PROCEDURE .....                                                                                                          | 21        |
| TEST DATA: SEE APPENDIX A & APPENDIX B .....                                                                                  | 21        |
| <b>FCC § 2.1051; § 22.917 (A); § 24.238 (A); §27.53 (G) (H) (M); § 90.691 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS .....</b> | <b>22</b> |
| APPLICABLE STANDARDS .....                                                                                                    | 22        |
| TEST PROCEDURE .....                                                                                                          | 23        |
| TEST DATA: SEE APPENDIX A & APPENDIX D .....                                                                                  | 23        |
| <b>FCC § 2.1053; § 22.917 (A); § 24.238 (A) &amp; §27.53 (G) (H) (M); § 90.691 - SPURIOUS RADIATED EMISSIONS.....</b>         | <b>24</b> |
| APPLICABLE STANDARDS .....                                                                                                    | 24        |
| TEST PROCEDURE .....                                                                                                          | 25        |
| TEST DATA: SEE APPENDIX A.....                                                                                                | 25        |
| <b>FCC § 22.917 (A); § 24.238 (A); §27.53 (C) (F) (G) (H) (M); § 90.691 - BAND EDGES.....</b>                                 | <b>26</b> |
| APPLICABLE STANDARDS .....                                                                                                    | 26        |
| TEST PROCEDURE .....                                                                                                          | 27        |
| TEST DATA: SEE APPENDIX A&C .....                                                                                             | 27        |
| <b>FCC §2.1055; §22.355; §24.235; §27.54; §90.213 - FREQUENCY STABILITY .....</b>                                             | <b>28</b> |
| APPLICABLE STANDARDS .....                                                                                                    | 28        |
| TEST PROCEDURE .....                                                                                                          | 29        |
| TEST DATA: SEE APPENDIX A .....                                                                                               | 29        |
| <b>EUT PHOTOGRAPHS.....</b>                                                                                                   | <b>30</b> |

|                                               |           |
|-----------------------------------------------|-----------|
| <b>TEST SETUP PHOTOGRAPHS .....</b>           | <b>31</b> |
| <b>APPENDIX A - TEST DATA.....</b>            | <b>32</b> |
| RF OUTPUT POWER.....                          | 32        |
| OCCUPIED BANDWIDTH .....                      | 61        |
| SPURIOUS EMISSIONS AT ANTENNA TERMINALS ..... | 72        |
| SPURIOUS RADIATED EMISSIONS.....              | 95        |
| BAND EDGES.....                               | 109       |
| FREQUENCY STABILITY .....                     | 117       |

## REPORT REVISION HISTORY

| Number of Revisions | Report No.        | Version | Issue Date | Description     |
|---------------------|-------------------|---------|------------|-----------------|
| 0                   | RKSA250319001-00F | R1V1    | 2025-05-27 | Initial Release |

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant:                      | ID TECH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Tested Model:                   | AP3880P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Product Name:                   | AP3880P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Power Supply:                   | DC 5 V charging by adapter or DC 7.4 V powered by battery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Maximum Conducted Output Power: | GPRS 850: 32.09 dBm; EGPRS 850: 27.15 dBm<br>GPRS 1900: 29.43 dBm; EGPRS 1900: 25.6 dBm<br>WCDMA Band II: 22.65 dBm; Band IV: 22.24dBm;<br>Band V: 22.8 dBm<br>LTE:<br>Band 2: 23.52 dBm; Band 4: 22.25 dBm<br>Band 5: 23.56 dBm; Band 7: 22.25 dBm<br>Band 12: 23.45 dBm; Band 17: 23.33 dBm;<br>Band 25: 23.56 dBm; Band 26 (814-824MHz): 23.42 dBm<br>Band 26 (824-849MHz): 23.44 dBm<br>Band 41:22.26 dBm; Band 66: 22.26 dBm                                                                                                                                                                                                                                                                                                                                                                               |
| RF Function:                    | GPRS/EGPRS, WCDMA, LTE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Operating Band/Frequency:       | GPRS/EGPRS 850: 824-849 MHz(TX), 869-894 MHz(RX)<br>GPRS/EGPRS 1900: 1850-1910 MHz(TX), 1930-1990 MHz(RX)<br>WCDMA Band II: 1850-1910 MHz(TX), 1930-1990 MHz(RX)<br>WCDMA Band IV: 1710-1755 MHz(TX), 2110-2155 MHz(RX)<br>WCDMA Band V: 824-849 MHz(TX), 869-894 MHz(RX)<br>LTE Band 2: 1850-1910 MHz(TX), 1930-1990 MHz(RX)<br>LTE Band 4: 1710-1755 MHz(TX), 2110-2155 MHz(RX)<br>LTE Band 5: 824-849 MHz(TX), 869-894 MHz(RX)<br>LTE Band 7: 2500-2570 MHz(TX), 2620-2690 MHz(RX)<br>LTE Band 12: 699-716 MHz(TX), 729-746 MHz(RX)<br>LTE Band 17: 704-716 MHz(TX), 734-746 MHz(RX)<br>LTE Band 25: 1850-1915 MHz(TX), 1930-1995 MHz(RX)<br>LTE Band 26: 814-849 MHz(TX), 859-894 MHz(RX)<br>LTE Band 41: 2496-2690 MHz MHz(TX), 2496-2690 MHz MHz(RX)<br>LTE Band 66: 1710-1780 MHz(TX), 2110-2200 MHz(RX) |
| Modulation Type:                | GPRS/EGPRS: GMSK, 8PSK<br>WCDMA: BPSK, QPSK, 16QAM<br>LTE: QPSK, 16QAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Antenna Type:                   | FPC Antenna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

|                         |                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ★Maximum Antenna Gain : | GPRS/EGPRS 850: -2.93 dBi<br>GPRS/EGPRS 1900: -1.32 dBi<br>WCDMA Band II : -1.32 dBi<br>WCDMA Band IV: -1.76 dBi<br>WCDMA Band V: -2.93 dBi<br>LTE Band 2: -1.32 dBi<br>LTE Band 4: -1.76 dBi<br>LTE Band 5: -2.93 dBi<br>LTE Band 7: 1.65 dBi<br>LTE Band 12: -3.82 dBi<br>LTE Band 17: -3.82 dBi<br>LTE Band 25: -1.32 dBi<br>LTE Band 26: -2.93 dBi<br>LTE Band 41: 1.65 dBi<br>LTE Band 66: -1.01 dBi |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

*Adapter Information:**Model: UT-681A-5200ZCY**Input: 100-240V 50/60Hz, 0.35A**Output: 5.0 V, 2.0A 10.0W**Note: The maximum antenna gain is provided by the applicant.**All measurement and test data in this report was gathered from production sample serial number: RKSA250319001-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2025-03-19.)***Objective**

This type approval report is prepared for *ID TECH* in accordance with Part 2, Part 22-Subpart H and Part 24-Subpart E, Part 27 and Part 90 of the Federal Communication Commission's rules.

The objective is to determine the compliance of EUT with FCC rules for output power, modulation characteristic, occupied bandwidth, and spurious emission at antenna terminal, spurious radiated emission, frequency stability, and band edge.

**Test Methodology**

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-Part J as well as the following parts:

Part 22 Subpart H - Public Mobile Services

Part 24 Subpart E - Personal Communication Services

Part 27 – Miscellaneous wireless communications services

Part 90- PRIVATE LAND MOBILE RADIO SERVICES

Applicable Standards: ANSI C63.26-2015.

## Measurement Uncertainty

| Item                            |                | Uncertainty            |
|---------------------------------|----------------|------------------------|
| RF Frequency                    |                | $0.082 \times 10^{-7}$ |
| RF output power, conducted      |                | 0.73dB                 |
| RF conducted test with spectrum |                | 0.9dB                  |
| Radiated emission               | 9 kHz~150 kHz  | 3.8dB                  |
|                                 | 150 kHz~30 MHz | 3.4dB                  |
|                                 | 30MHz~1GHz     | 5.91dB                 |
|                                 | 1GHz~6GHz      | 4.68dB                 |
|                                 | 6GHz~18GHz     | 4.92dB                 |
|                                 | 18GHz~40GHz    | 5.21dB                 |
| Occupied Bandwidth              |                | 0.5kHz                 |
| Temperature                     |                | 1.0°C                  |
| Humidity                        |                | 6%                     |
| Supply voltages                 |                | $\pm 0.4\%$            |

## Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) is accredited in accordance with ISO/IEC 17025:2017 by NVLAP (Lab code: 600338-0), and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No.: CN5055.

## SYSTEM TEST CONFIGURATION

### Justification

The EUT was configured for testing according to ANSI C63.26-2015.

The final qualification test was performed with the EUT operating at normal mode.

### Channel List

| Mode            |      | Channel | Frequency (MHz) |
|-----------------|------|---------|-----------------|
| GPRS/EGPRS 850  |      | Low     | 824.2           |
|                 |      | Middle  | 836.6           |
|                 |      | High    | 848.8           |
| GPRS/EGPRS 1900 |      | Low     | 1850.2          |
|                 |      | Middle  | 1880.0          |
|                 |      | High    | 1909.8          |
| WCDMA Band II   |      | Low     | 1852.4          |
|                 |      | Middle  | 1880.0          |
|                 |      | High    | 1907.6          |
| WCDMA Band IV   |      | Low     | 1712.4          |
|                 |      | Middle  | 1732.6          |
|                 |      | High    | 1752.6          |
| WCDMA Band V    |      | Low     | 826.4           |
|                 |      | Middle  | 836.6           |
|                 |      | High    | 846.6           |
| LTE Band 2      | 1.4M | Low     | 1850.7          |
|                 |      | Middle  | 1880.0          |
|                 |      | High    | 1909.3          |
|                 | 3M   | Low     | 1851.5          |
|                 |      | Middle  | 1880.0          |
|                 |      | High    | 1908.5          |
|                 | 5M   | Low     | 1852.5          |
|                 |      | Middle  | 1880.0          |
|                 |      | High    | 1907.5          |
|                 | 10M  | Low     | 1855.0          |
|                 |      | Middle  | 1880.0          |
|                 |      | High    | 1905.0          |
|                 | 15M  | Low     | 1857.5          |
|                 |      | Middle  | 1880.0          |
|                 |      | High    | 1902.5          |
|                 | 20M  | Low     | 1860.0          |
|                 |      | Middle  | 1880.0          |
|                 |      | High    | 1900.0          |

| Mode       |      | Channel | Frequency (MHz) |
|------------|------|---------|-----------------|
| LTE Band 4 | 1.4M | Low     | 1710.7          |
|            |      | Middle  | 1732.5          |
|            |      | High    | 1754.3          |
|            | 3M   | Low     | 1711.5          |
|            |      | Middle  | 1732.5          |
|            |      | High    | 1753.5          |
|            | 5M   | Low     | 1712.5          |
|            |      | Middle  | 1732.5          |
|            |      | High    | 1752.5          |
|            | 10M  | Low     | 1715.0          |
|            |      | Middle  | 1732.5          |
|            |      | High    | 1750.0          |
|            | 15M  | Low     | 1717.5          |
|            |      | Middle  | 1732.5          |
|            |      | High    | 1747.5          |
|            | 20M  | Low     | 1720.0          |
|            |      | Middle  | 1732.5          |
|            |      | High    | 1745.0          |
| LTE Band 5 | 1.4M | Low     | 824.7           |
|            |      | Middle  | 836.5           |
|            |      | High    | 848.3           |
|            | 3M   | Low     | 825.5           |
|            |      | Middle  | 836.5           |
|            |      | High    | 847.5           |
|            | 5M   | Low     | 826.5           |
|            |      | Middle  | 836.5           |
|            |      | High    | 846.5           |
|            | 10M  | Low     | 829.0           |
|            |      | Middle  | 836.5           |
|            |      | High    | 844.0           |
| LTE Band 7 | 5M   | Low     | 2502.5          |
|            |      | Middle  | 2535.0          |
|            |      | High    | 2567.5          |
|            | 10M  | Low     | 2505.0          |
|            |      | Middle  | 2535.0          |
|            |      | High    | 2565.0          |
|            | 15M  | Low     | 2507.5          |
|            |      | Middle  | 2535.0          |
|            |      | High    | 2562.5          |
|            | 20M  | Low     | 2510.0          |
|            |      | Middle  | 2535.0          |
|            |      | High    | 2560.0          |

| Mode        |      | Channel | Frequency(MHz) |
|-------------|------|---------|----------------|
| LTE Band 12 | 1.4M | Low     | 699.7          |
|             |      | Middle  | 707.5          |
|             |      | High    | 715.3          |
|             | 3M   | Low     | 700.5          |
|             |      | Middle  | 707.5          |
|             |      | High    | 714.5          |
|             | 5M   | Low     | 701.5          |
|             |      | Middle  | 707.5          |
|             |      | High    | 713.5          |
|             | 10M  | Low     | 704.0          |
|             |      | Middle  | 707.5          |
|             |      | High    | 711.0          |
| LTE Band 17 | 5M   | Low     | 706.5          |
|             |      | Middle  | 710.0          |
|             |      | High    | 713.5          |
|             | 10M  | Low     | 709.0          |
|             |      | Middle  | 710.0          |
|             |      | High    | 711.0          |
| LTE Band 25 | 1.4M | Low     | 1850.7         |
|             |      | Middle  | 1882.5         |
|             |      | High    | 1914.3         |
|             | 3M   | Low     | 1851.5         |
|             |      | Middle  | 1882.5         |
|             |      | High    | 1913.5         |
|             | 5M   | Low     | 1852.5         |
|             |      | Middle  | 1882.5         |
|             |      | High    | 1912.5         |
|             | 10M  | Low     | 1855.0         |
|             |      | Middle  | 1882.5         |
|             |      | High    | 1910.0         |
|             | 15M  | Low     | 1857.5         |
|             |      | Middle  | 1882.5         |
|             |      | High    | 1907.5         |
|             | 20M  | Low     | 1860.0         |
|             |      | Middle  | 1882.5         |
|             |      | High    | 1905.0         |

| Mode                 |      | Channel | Frequency(MHz) |
|----------------------|------|---------|----------------|
| LTE Band 26<br>Lower | 1.4M | Low     | 814.7          |
|                      |      | High    | 823.3          |
|                      |      | Cross   | 824            |
|                      | 3M   | Low     | 815.5          |
|                      |      | High    | 822.5          |
|                      |      | Cross   | 824            |
|                      | 5M   | Low     | 816.5          |
|                      |      | High    | 821.5          |
|                      |      | Cross   | 824            |
|                      | 10M  | Low     | 819            |
|                      |      | Cross   | 824            |
|                      | 15M  | Low     | 821.5          |
|                      |      | Cross   | 824            |
| LTE Band 26<br>Upper | 1.4M | Low     | 824.7          |
|                      |      | Middle  | 836.5          |
|                      |      | High    | 848.3          |
|                      | 3M   | Low     | 825.5          |
|                      |      | Middle  | 836.5          |
|                      |      | High    | 847.5          |
|                      | 5M   | Low     | 826.5          |
|                      |      | Middle  | 836.5          |
|                      |      | High    | 846.5          |
|                      | 10M  | Low     | 829            |
|                      |      | Middle  | 836.5          |
|                      |      | High    | 844            |
|                      | 15M  | Low     | 831.5          |
|                      |      | Middle  | 836.5          |
|                      |      | High    | 841.5          |
| LTE Band 41          | 5M   | Low     | 2498.5         |
|                      |      | Middle  | 2593.0         |
|                      |      | High    | 2687.5         |
|                      | 10M  | Low     | 2501.0         |
|                      |      | Middle  | 2593.0         |
|                      |      | High    | 2685.0         |
|                      | 15M  | Low     | 2503.5         |
|                      |      | Middle  | 2593.0         |
|                      |      | High    | 2682.5         |
|                      | 20M  | Low     | 2506.0         |
|                      |      | Middle  | 2593.0         |
|                      |      | High    | 2680.0         |

| Mode        |      | Channel | Frequency(MHz) |
|-------------|------|---------|----------------|
| LTE Band 66 | 1.4M | Low     | 1710.7         |
|             |      | Middle  | 1745.0         |
|             |      | High    | 1779.3         |
|             | 3M   | Low     | 1711.5         |
|             |      | Middle  | 1745.0         |
|             |      | High    | 1778.5         |
|             | 5M   | Low     | 1712.5         |
|             |      | Middle  | 1745.0         |
|             |      | High    | 1777.5         |
|             | 10M  | Low     | 1715.0         |
|             |      | Middle  | 1745.0         |
|             |      | High    | 1775.0         |
|             | 15M  | Low     | 1717.5         |
|             |      | Middle  | 1745.0         |
|             |      | High    | 1772.5         |
|             | 20M  | Low     | 1720.0         |
|             |      | Middle  | 1745.0         |
|             |      | High    | 1770.0         |

## Equipment Modifications

No modifications were made to the EUT.

## Support Equipment List and Details

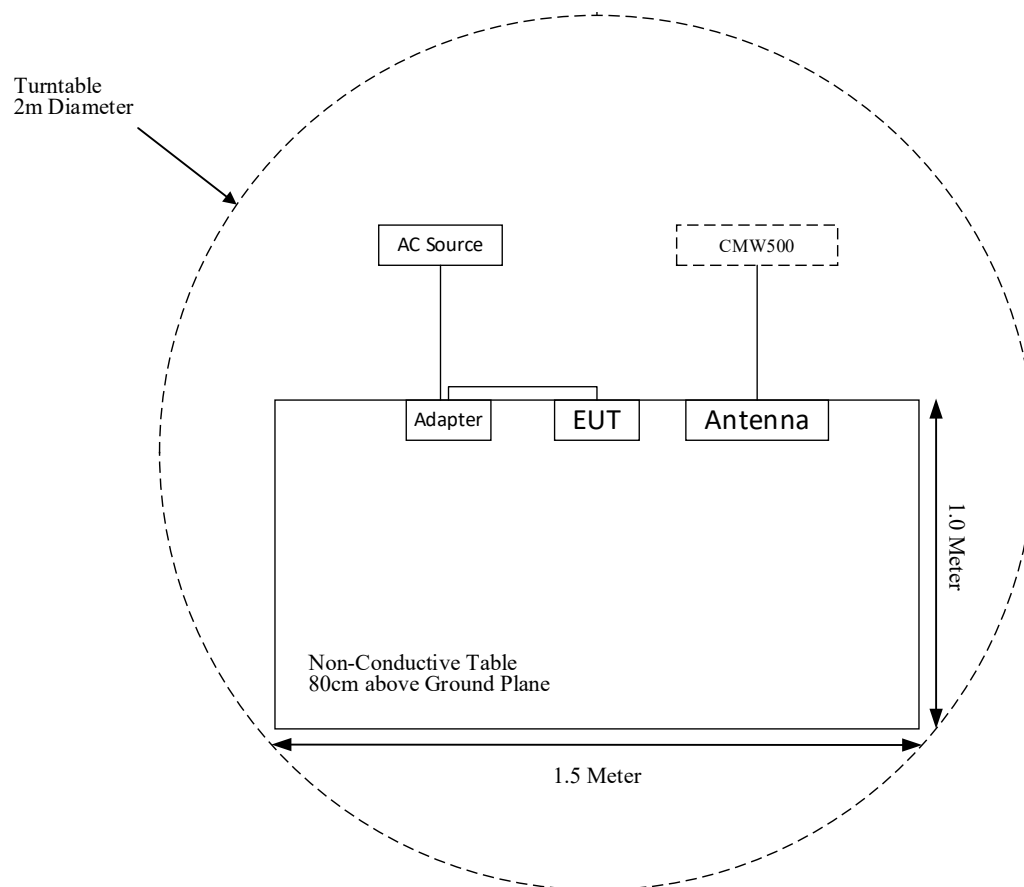
| Manufacturer    | Description                         | Model  | Serial Number |
|-----------------|-------------------------------------|--------|---------------|
| Rohde & Schwarz | Wideband Radio Communication Tester | CMW500 | 104478        |

## External I/O Cable

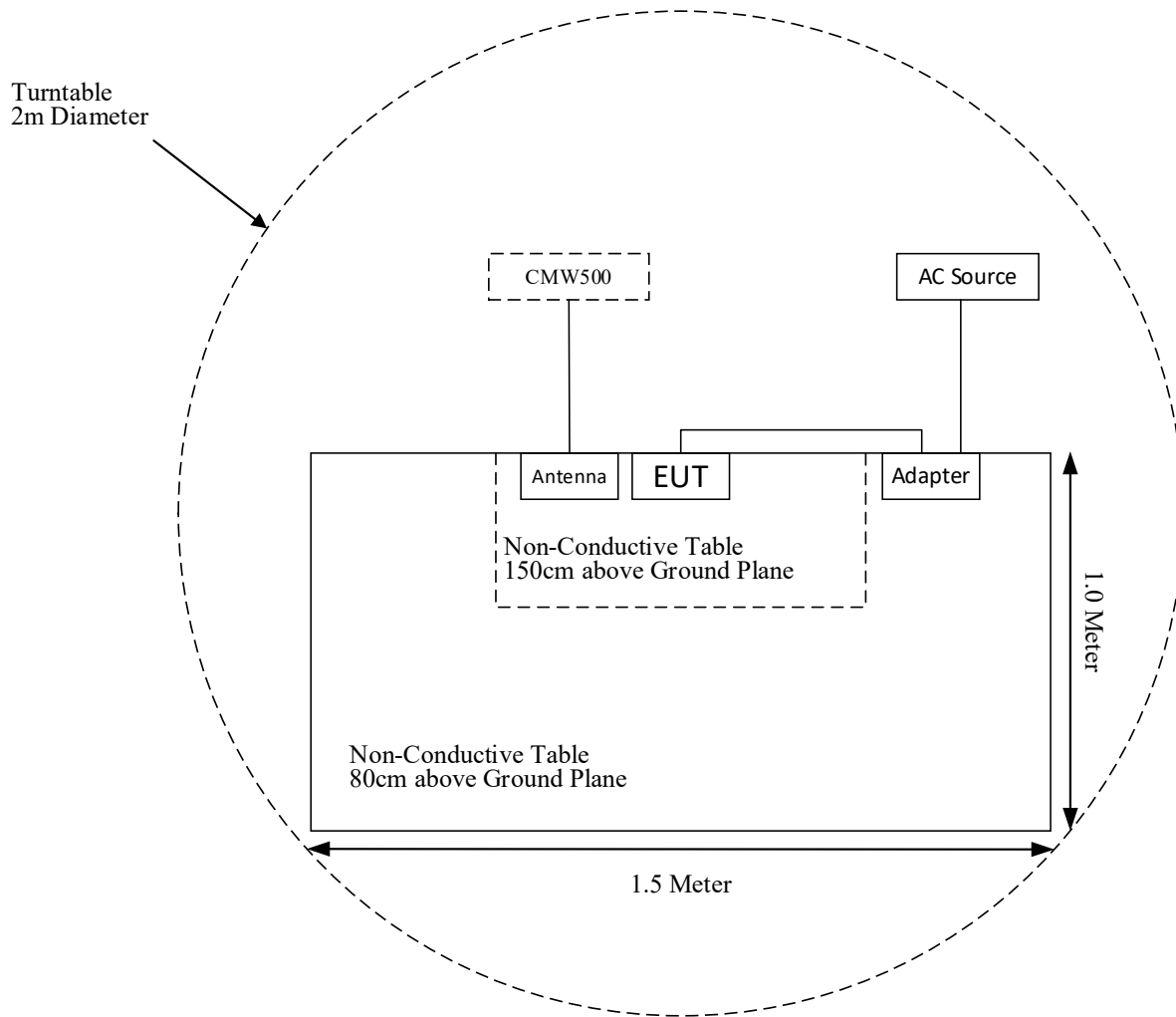
| Cable Description | Length (m) | From Port | To Port   |
|-------------------|------------|-----------|-----------|
| Power Cable 1     | 1.0        | EUT       | Adapter   |
| Power Cable 2     | 1.0        | Adapter   | AC Source |

## Block Diagram of Test Setup

For Radiated Emissions(Below 1GHz):



For Radiated Emissions (Above 1 GHz):



**TEST EQUIPMENT LIST**

| Manufacturer                               | Description                         | Model     | Serial Number                   | Calibration Date | Calibration Due Date |
|--------------------------------------------|-------------------------------------|-----------|---------------------------------|------------------|----------------------|
| <b>Radiated Emission Test (Chamber #1)</b> |                                     |           |                                 |                  |                      |
| Rohde & Schwarz                            | EMI Test Receiver                   | ESCI      | 100195                          | 2024-04-23       | 2025-04-22           |
| Keysight                                   | Signal Generator                    | N5183A    | MY47420304                      | 2024-04-24       | 2025-04-23           |
| Sunol Sciences                             | Broadband Antenna                   | JB3       | A090314-1                       | 2024-11-08       | 2027-11-07           |
| Sunol Sciences                             | Hybrid Antenna                      | JB3       | A090314-2                       | 2024-10-29       | 2027-10-28           |
| Sonoma Instrument                          | Amplifier                           | 310N      | 171205                          | 2024-04-23       | 2025-04-22           |
| Rohde & Schwarz                            | Auto Test Software                  | EMC32     | 100361                          | N/A              | N/A                  |
| MICRO-COAX                                 | Coaxial Cable                       | Cable-7   | 007                             | 2024-04-23       | 2025-04-22           |
| MICRO-COAX                                 | Coaxial Cable                       | Cable-8   | 008                             | 2024-04-23       | 2025-04-22           |
| MICRO-COAX                                 | Coaxial Cable                       | Cable-9   | 009                             | 2024-04-23       | 2025-04-22           |
| MICRO-COAX                                 | Coaxial Cable                       | Cable-10  | 010                             | 2024-04-23       | 2025-04-22           |
| Rohde & Schwarz                            | Wideband Radio Communication Tester | CMW500    | 104478                          | 2024-04-24       | 2025-04-23           |
| <b>Radiated Emission Test (Chamber #2)</b> |                                     |           |                                 |                  |                      |
| Keysight                                   | Signal Generator                    | N5183A    | MY47420304                      | 2024-04-24       | 2025-04-23           |
| Rohde & Schwarz                            | EMI Test Receiver                   | ESU40     | 100207/040                      | 2024-04-25       | 2025-04-24           |
| ETS-LINDGREN                               | Horn Antenna                        | 3115      | 9207-3900                       | 2024-11-03       | 2027-11-02           |
| ETS-LINDGREN                               | Horn Antenna                        | 3115      | 6229                            | N/A              | N/A                  |
| ETS-LINDGREN                               | Horn Antenna                        | 3116      | 2516                            | 2024-12-12       | 2027-12-11           |
| ETS-LINDGREN                               | Horn Antenna                        | 3116      | 84159                           | N/A              | N/A                  |
| A.H.Systems,inc                            | Amplifier                           | PAM-0118P | 512                             | 2024-04-25       | 2025-04-24           |
| EM Electronics Corporation                 | Amplifier                           | EM18G40G  | 060726                          | 2024-04-25       | 2025-04-24           |
| Wi                                         | Band reject filter                  | SN1       | WRCGV5-804-824-849-869-30SS     | N/A              | N/A                  |
| Wi                                         | Band reject filter                  | SN1       | WRCGV6-1830-1850-1910-1930-30SS | N/A              | N/A                  |
| Wi                                         | Band reject filter                  | SN1       | WRCGV8-1695-1710-1755-1770-30SS | N/A              | N/A                  |
| Wi                                         | Band reject filter                  | SN3       | WRCJV8-2450-2500-2570-2620-40SS | N/A              | N/A                  |
| Wi                                         | Band reject filter                  | SN2       | WRCT16-697-699-716-718-60SS     | N/A              | N/A                  |
| Wi                                         | Band reject filter                  | SN1       | WRCJV8-2550-2570-2620-2640-30SS | N/A              | N/A                  |

| Manufacturer             | Description                         | Model        | Serial Number | Calibration Date | Calibration Due Date |
|--------------------------|-------------------------------------|--------------|---------------|------------------|----------------------|
| Rohde & Schwarz          | Auto test Software                  | EMC32        | 100361        | N/A              | N/A                  |
| MICRO-COAX               | Coaxial Cable                       | Cable-6      | 006           | 2024-04-25       | 2025-04-24           |
| MICRO-COAX               | Coaxial Cable                       | Cable-11     | 011           | 2024-04-25       | 2025-04-24           |
| MICRO-COAX               | Coaxial Cable                       | Cable-12     | 012           | 2024-04-25       | 2025-04-24           |
| MICRO-COAX               | Coaxial Cable                       | Cable-13     | 013           | 2024-04-25       | 2025-04-24           |
| Rohde & Schwarz          | Wideband Radio Communication Tester | CMW500       | 104478        | 2024-04-24       | 2025-04-23           |
| <b>RF Conducted Test</b> |                                     |              |               |                  |                      |
| Rohde & Schwarz          | Signal Analyzer                     | FSV40        | 101116        | 2024-04-24       | 2025-04-23           |
| Rohde & Schwarz          | Signal Analyzer                     | FSV40        | 101116        | 2025-04-09       | 2026-04-08           |
| BACL                     | Temperature & Humidity Chamber      | BTH-150      | 30023         | 2024-04-25       | 2025-04-24           |
| BACL                     | Temperature & Humidity Chamber      | BTH-150      | 30023         | 2025-04-09       | 2026-04-08           |
| EAST                     | Regulated DC Power Supply           | MCH-303D-II  | 14070562      | 2024-10-10       | 2025-10-09           |
| Rohde & Schwarz          | Wideband Radio Communication Tester | CMW500       | 104478        | 2024-04-24       | 2025-04-23           |
| Rohde & Schwarz          | Wideband Radio Communication Tester | CMW500       | 104478        | 2025-04-09       | 2026-04-08           |
| Narda                    | Attenuator                          | 10dB         | 010           | 2024-04-24       | 2025-04-23           |
| Narda                    | Attenuator                          | 10dB         | 010           | 2025-04-08       | 2026-04-07           |
| Eastsheep                | Attenuator                          | 2W-N-JK-18G  | 20dB-01       | 2024-04-24       | 2025-04-23           |
| Eastsheep                | Attenuator                          | 2W-N-JK-18G  | 20dB-01       | 2025-04-08       | 2026-04-07           |
| MACOM                    | Power Splitter                      | 2090-6214-00 | 96341         | 2024-04-23       | 2025-04-22           |
| MACOM                    | Power Splitter                      | 2090-6214-00 | 96341         | 2025-04-09       | 2026-04-08           |
| XHFDZ                    | RG316 Coaxial Cable                 | SMA-316      | XHF-1175      | Each time        | N/A                  |
| Unknown                  | RF Cable                            | RF Cable C01 | C01           | Each Time        | N/A                  |

**Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

**SUMMARY OF TEST RESULTS**

| <b>FCC Rules</b>                                                        | <b>Description of Test</b>             | <b>Result</b>  |
|-------------------------------------------------------------------------|----------------------------------------|----------------|
| §2.1046; § 22.913 (a); §24.232 (c);<br>§27.50 (c)(d) (h)<br>§90.635 (b) | RF Output Power                        | Compliant      |
| § 2.1047                                                                | Modulation Characteristics             | Not Applicable |
| §2.1049; §22.905; §22.917; §24.238;<br>§27.53; §90.209                  | Occupied Bandwidth                     | Compliant      |
| §2.1051; §22.917 (a); §24.238 (a);<br>§27.53 (g) (h) (m);<br>§90.691    | Spurious Emissions at Antenna Terminal | Compliant      |
| §2.1053; §22.917 (a) §24.238 (a);<br>§27.53 (g) (h) (m);§90.691         | Spurious Radiated Emissions            | Compliant      |
| §22.917 (a); §24.238 (a);<br>§27.53 (g) (h) (m); §90.691                | Band Edge                              | Compliant      |
| §2.1055; §22.355; §24.235; §27.54;<br>§90.213                           | Frequency stability                    | Compliant      |
| §1.1307(b)(1)& §2.1093                                                  | RF EXPOSURE                            | Compliant      |

## **FCC §1.1307(b) & §2.1093 - RF EXPOSURE**

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### **Applicable Standard**

FCC§1.1307, §2.1093.

### **Measurement Result**

**Result:** Please refer to the SAR report: RKSA250319001-20B.

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## **FCC §2.1047 - MODULATION CHARACTERISTIC**

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According to FCC § 2.1047(d), Part 22H & 24E, Part 27, Part 90 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

## **FCC §2.1046; § 22.913 (a); §24.232 (c); §27.50 (b) (c) (d) (h);§90.635 (b) - RF OUTPUT POWER**

### **Applicable Standards**

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts (38.45dBm).

According to FCC §2.1046 and §24.232 (c), mobile and portable stations are limited to 2 watts (33dBm) EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to §27.50(c), Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP

According to §27.50(d), the maximum EIRP must not exceed 1Watts (30dBm) for 1710-1780MHz.

According to §27.50(h) (2), Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

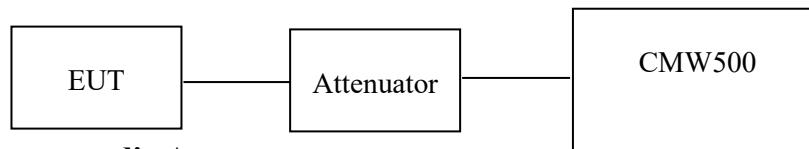
According to FCC §2.1046 and §90.635 (b), The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw)

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.

### **Test Procedure**

#### ***Conducted method:***

The RF output of the transmitter was connected to the CMW500 through sufficient attenuation.



**Test Data: See appendix A**

## **FCC §2.1049, §22.917, §22.905 & §24.238, §27.53, §90.209 - OCCUPIED BANDWIDTH**

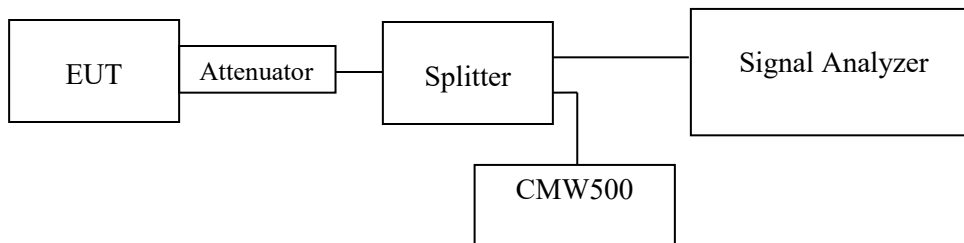
### **Applicable Standards**

FCC 47 §2.1049, §22.917, §22.905 & §24.238, §27.53 and §90.209.

### **Test Procedure**

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation. The 26 dB & 99% bandwidth was recorded.

Note: The 15dB is the Insertion loss of the RF cable, Power Splitter, Attenuator, which was offset into the Spectrum Analyzer.



**Test Data: See appendix A & appendix B**

## **FCC § 2.1051; § 22.917 (a); § 24.238 (a); §27.53 (g) (h) (m); § 90.691 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS**

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### **Applicable Standards**

FCC §2.1051, §22.917(a), §24.238(a), §27.53 (g) (h) (m) and § 90.691.

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1051.

According to §22.917(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

24.238 (a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

#### **27.53 (g)**

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a 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, by at least  $43 + 10 \log(P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed

#### **27.53 (h) AWS emission limits —**

(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, 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.

27.53m(4) 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. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

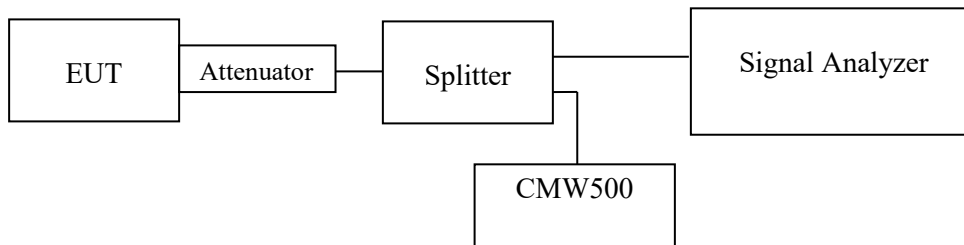
#### **Part 90.691**

Rule Part 90.691 specifies that “The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

## Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100 kHz for below 1GHz & 1MHz for above 1GHz. sufficient scans were taken to show any out of band emissions up to 10<sup>th</sup> harmonic.

Note: The 15dB is the Insertion loss of the RF cable, Power Splitter, Attenuator, which was offset into the Spectrum Analyzer.



**Test Data: See appendix A & appendix D**

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**FCC § 2.1053; § 22.917 (a); § 24.238 (a) & §27.53 (g) (h) (m); § 90.691 - SPURIOUS RADIATED EMISSIONS**

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**Applicable Standards**

FCC § 2.1053, §22.917(a) and § 24.238(a), §90.691 and § 27.53 (g) (h) (m)

22.917 (a)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

24.238 (a)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

27.53 (g)

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a 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, by at least  $43 + 10 \log (P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed

27.53 (h) AWS emission limits —

(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, 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.

27.53m(4) 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. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Rule Part 90.691 specifies that “The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

**Test Procedure**

According to ANSI C63.26-2015 Section 5.5.3:

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB =  $10 \lg (\text{TX pwr in Watts}/0.001)$  – the absolute level

Spurious attenuation limit in dB =  $43 + 10 \text{Log}_{10} (\text{power out in Watts})$

**Test Data: See Appendix A**

## **FCC § 22.917 (a); § 24.238 (a); § 27.53 (c) (f) (g) (h) (m); § 90.691 - BAND EDGES**

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### **Applicable Standards**

#### **22.917 (a)**

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

#### **24.238 (a)**

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

#### **27.53 (g)**

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a 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, by at least  $43 + 10 \log (P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed

#### **27.53 (h) AWS emission limits —**

(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, 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.

27.53m(4) 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. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

#### **§ 90.691(a)**

(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.

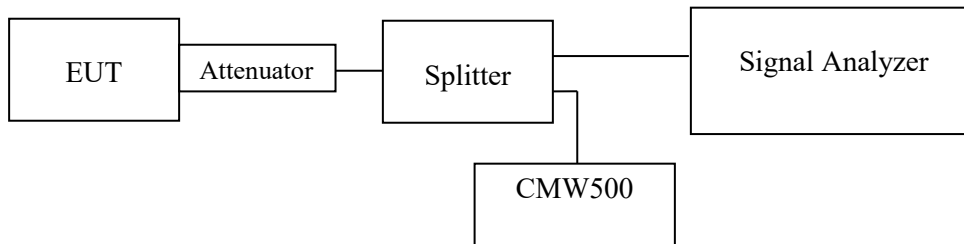
(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

## Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency.

Note: The 15dB is the Insertion loss of the RF cable, Power Splitter, Attenuator, which was offset into the Spectrum Analyzer.



**Test Data: See Appendix A&C**

## **FCC §2.1055; §22.355; §24.235; §27.54; §90.213 - FREQUENCY STABILITY**

### **Applicable Standards**

FCC § 2.1055, §22.355, §24.235, §27.54 and § 90.213.

According to FCC §2.1055, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

**Frequency Tolerance for Transmitters in the Public Mobile Services**

| <b>Frequency Range<br/>(MHz)</b> | <b>Base, fixed<br/>(ppm)</b> | <b>Mobile &gt; 3 watts<br/>(ppm)</b> | <b>Mobile ≤ 3 watts<br/>(ppm)</b> |
|----------------------------------|------------------------------|--------------------------------------|-----------------------------------|
| 25 to 50                         | 20.0                         | 20.0                                 | 50.0                              |
| 50 to 450                        | 5.0                          | 5.0                                  | 50.0                              |
| 450 to 512                       | 2.5                          | 5.0                                  | 5.0                               |
| 821 to 896                       | 1.5                          | 2.5                                  | 2.5                               |
| 928 to 929.                      | 5.0                          | N/A                                  | N/A                               |
| 929 to 960.                      | 1.5                          | N/A                                  | N/A                               |
| 2110 to 2220                     | 10.0                         | N/A                                  | N/A                               |

According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

According to §27.54 Frequency stability, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

§90.213(a) Unless noted elsewhere, transmitters used in the services governed by this part must have a minimum frequency stability as specified in the following table. Table 1 to § 90.213(a).

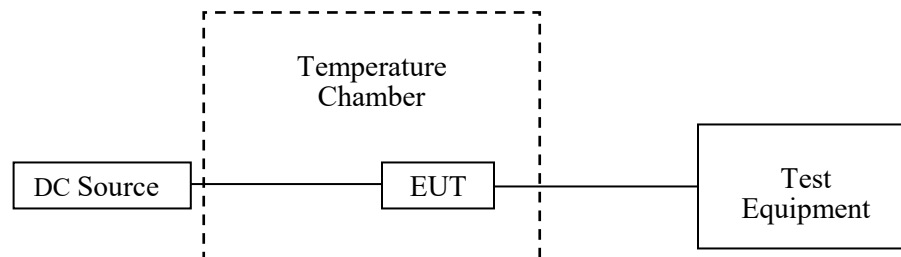
## Test Procedure

According to ANSI C63.26-2015 Section 5.6:

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: For hand carried, battery powered equipment; reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.



**Test Data: See appendix A**

## **EUT PHOTOGRAPHS**

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Please refer to the attachment EXHIBIT A - EUT EXTERNAL PHOTOGRAPHS and EXHIBIT B - EUT INTERNAL PHOTOGRAPHS.

## **TEST SETUP PHOTOGRAPHS**

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Please refer to the attachment EXHIBIT F - TEST SETUP PHOTOGRAPHS.

## APPENDIX A - TEST DATA

### .....RF OUTPUT POWER

#### Environmental Conditions & Test Information

|                    |                          |
|--------------------|--------------------------|
| Test Date:         | 2025-03-31 to 2025-04-20 |
| Temperature:       | 24.3-25.1 °C             |
| Relative Humidity: | 50-51 %                  |
| ATM Pressure:      | 102.9-103.2 kPa          |
| Test Result:       | Pass                     |
| Test Engineer:     | Neil Zhou                |

#### GPRS/EGPRS 850 Band

| Mode | Channel | Frequency (MHz) | Average Output Power (dBm) |         |         |         | ERP (dBm) |         |         |         | Limit (dBm) |
|------|---------|-----------------|----------------------------|---------|---------|---------|-----------|---------|---------|---------|-------------|
|      |         |                 | 1 slot                     | 2 slots | 3 slots | 4 slots | 1 slot    | 2 slots | 3 slots | 4 slots |             |
| GPRS | 128     | 824.2           | 32.09                      | 31.80   | 31.53   | 31.50   | 27.01     | 26.72   | 26.45   | 26.42   | 38.45       |
|      | 190     | 836.6           | 31.92                      | 31.85   | 31.73   | 31.61   | 26.84     | 26.77   | 26.65   | 26.53   | 38.45       |
|      | 251     | 848.8           | 31.90                      | 31.82   | 31.70   | 31.66   | 26.82     | 26.74   | 26.62   | 26.58   | 38.45       |

| Mode  | Channel | Frequency (MHz) | Average Output Power (dBm) |         |         |         | ERP (dBm) |         |         |         | Limit (dBm) |
|-------|---------|-----------------|----------------------------|---------|---------|---------|-----------|---------|---------|---------|-------------|
|       |         |                 | 1 slot                     | 2 slots | 3 slots | 4 slots | 1 slot    | 2 slots | 3 slots | 4 slots |             |
| EGPRS | 128     | 824.2           | 27.15                      | 26.81   | 26.78   | 26.31   | 22.07     | 21.73   | 21.7    | 21.23   | 38.45       |
|       | 190     | 836.6           | 27.13                      | 26.97   | 26.76   | 26.57   | 22.05     | 21.89   | 21.68   | 21.49   | 38.45       |
|       | 251     | 848.8           | 26.96                      | 26.80   | 26.56   | 26.44   | 21.88     | 21.72   | 21.48   | 21.36   | 38.45       |

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)

Antenna Gain(dBd) = Antenna Gain(dBi)-2.15

**GPRS/EGPRS 1900 Band**

| Mode | Channel | Frequency (MHz) | Average Output Power (dBm) |         |         |         | EIRP (dBm) |         |         |         | Limit (dBm) |
|------|---------|-----------------|----------------------------|---------|---------|---------|------------|---------|---------|---------|-------------|
|      |         |                 | 1 slot                     | 2 slots | 3 slots | 4 slots | 1 slot     | 2 slots | 3 slots | 4 slots |             |
| GPRS | 512     | 1850.2          | 28.78                      | 28.67   | 28.54   | 28.29   | 27.46      | 27.35   | 27.22   | 26.97   | 33          |
|      | 661     | 1880            | 29.15                      | 29.06   | 28.91   | 28.79   | 27.83      | 27.74   | 27.59   | 27.47   | 33          |
|      | 810     | 1909.8          | 29.43                      | 29.37   | 29.25   | 28.76   | 28.11      | 28.05   | 27.93   | 27.44   | 33          |

| Mode  | Channel | Frequency (MHz) | Average Output Power (dBm) |         |         |         | EIRP (dBm) |         |         |         | Limit (dBm) |
|-------|---------|-----------------|----------------------------|---------|---------|---------|------------|---------|---------|---------|-------------|
|       |         |                 | 1 slot                     | 2 slots | 3 slots | 4 slots | 1 slot     | 2 slots | 3 slots | 4 slots |             |
| EGPRS | 512     | 1850.2          | 24.25                      | 24.08   | 24.01   | 23.95   | 22.93      | 22.76   | 22.69   | 22.63   | 33          |
|       | 661     | 1880            | 24.77                      | 24.66   | 24.44   | 24.31   | 23.45      | 23.34   | 23.12   | 22.99   | 33          |
|       | 810     | 1909.8          | 25.6                       | 25.43   | 25.24   | 25.14   | 24.28      | 24.11   | 23.92   | 23.82   | 33          |

Note: EIRP (dBm) = Conducted Power(dBm) + Antenna Gain(dBi)

**WCDMA Band II**

| Mode           | Test Mode | 3GPP Sub Test | Average Output Power (dBm) |       |       | EIRP (dBm) |       |       |
|----------------|-----------|---------------|----------------------------|-------|-------|------------|-------|-------|
|                |           |               | Low                        | Mid   | High  | Low        | Mid   | High  |
| WCDMA (Band 2) | RMC12.2k  |               | 22.54                      | 22.65 | 22.51 | 21.22      | 21.33 | 21.19 |
|                | HSDPA     | 1             | 21.95                      | 22.04 | 22.17 | 20.63      | 20.72 | 20.85 |
|                |           | 2             | 22.12                      | 22.09 | 22.03 | 20.80      | 20.77 | 20.71 |
|                |           | 3             | 22.07                      | 22.07 | 22.18 | 20.75      | 20.75 | 20.86 |
|                |           | 4             | 21.98                      | 22.09 | 22.11 | 20.66      | 20.77 | 20.79 |
|                | HSUPA     | 1             | 22.14                      | 22.01 | 22.04 | 20.82      | 20.69 | 20.72 |
|                |           | 2             | 22.11                      | 22.06 | 22.07 | 20.79      | 20.74 | 20.75 |
|                |           | 3             | 22.06                      | 22.07 | 22.16 | 20.74      | 20.75 | 20.84 |
|                |           | 4             | 22.05                      | 21.98 | 22.26 | 20.73      | 20.66 | 20.94 |
|                |           | 5             | 22.09                      | 21.99 | 22.15 | 20.77      | 20.67 | 20.83 |
|                | HSPA+     | 1             | 22.13                      | 22.17 | 22.10 | 20.81      | 20.85 | 20.78 |

Note: EIRP (dBm) = Conducted Power(dBm) + Antenna Gain(dBi)

Limit: EIRP≤33dBm

**WCDMA Band V**

| Mode           | Test Mode | 3GPP Sub Test | Average Output Power (dBm) |       |       | ERP (dBm) |       |       |
|----------------|-----------|---------------|----------------------------|-------|-------|-----------|-------|-------|
|                |           |               | Low                        | Mid   | High  | Low       | Mid   | High  |
| WCDMA (Band 5) | RMC12.2k  |               | 22.8                       | 22.63 | 22.69 | 17.72     | 17.55 | 17.61 |
|                | HSDPA     | 1             | 21.85                      | 22.06 | 21.38 | 16.77     | 16.98 | 16.3  |
|                |           | 2             | 21.99                      | 21.51 | 21.05 | 16.91     | 16.43 | 15.97 |
|                |           | 3             | 21.92                      | 21.68 | 22.01 | 16.84     | 16.6  | 16.93 |
|                |           | 4             | 22.18                      | 21.89 | 21.08 | 17.10     | 16.81 | 16    |
|                | HSUPA     | 1             | 22.01                      | 21.82 | 21.71 | 16.93     | 16.74 | 16.63 |
|                |           | 2             | 22.04                      | 21.69 | 21.31 | 16.96     | 16.61 | 16.23 |
|                |           | 3             | 21.45                      | 21.68 | 21.32 | 16.37     | 16.6  | 16.24 |
|                |           | 4             | 21.69                      | 21.89 | 21.64 | 16.61     | 16.81 | 16.56 |
|                |           | 5             | 22.15                      | 22.03 | 21.28 | 17.07     | 16.95 | 16.2  |
|                | HSPA+     | 1             | 22.00                      | 21.97 | 21.09 | 16.92     | 16.89 | 16.01 |

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)

Antenna Gain(dBd) = Antenna Gain(dBi)-2.15

Limit: ERP≤38.45dBm

**WCDMA Band IV**

| Mode           | Test Mode | 3GPP Sub Test | Average Output Power (dBm) |       |       | EIRP (dBm) |       |       |
|----------------|-----------|---------------|----------------------------|-------|-------|------------|-------|-------|
|                |           |               | Low                        | Mid   | High  | Low        | Mid   | High  |
| WCDMA (Band 4) | RMC12.2k  |               | 22.23                      | 21.95 | 21.69 | 20.47      | 20.19 | 19.93 |
|                | HSDPA     | 1             | 22.24                      | 21.94 | 21.56 | 20.48      | 20.18 | 19.80 |
|                |           | 2             | 21.80                      | 21.83 | 21.46 | 20.04      | 20.07 | 19.70 |
|                |           | 3             | 22.14                      | 21.62 | 21.03 | 20.38      | 19.86 | 19.27 |
|                |           | 4             | 21.50                      | 21.86 | 21.84 | 19.74      | 20.10 | 20.08 |
|                | HSUPA     | 1             | 22.21                      | 21.59 | 21.06 | 20.45      | 19.83 | 19.30 |
|                |           | 2             | 21.73                      | 21.85 | 21.27 | 19.97      | 20.09 | 19.51 |
|                |           | 3             | 22.24                      | 21.22 | 21.17 | 20.48      | 19.46 | 19.41 |
|                |           | 4             | 22.06                      | 21.92 | 21.63 | 20.30      | 20.16 | 19.87 |
|                |           | 5             | 22.05                      | 21.63 | 21.74 | 20.29      | 19.87 | 19.98 |
|                | HSPA+     | 1             | 21.68                      | 22.10 | 21.38 | 19.92      | 20.34 | 19.62 |

Note: EIRP (dBm) = Conducted Power(dBm) + Antenna Gain(dBi)

Limit: EIRP≤30dBm

## LTE Band 2

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB<br>Offset | Conducted Average Output Power<br>(dBm) |       |       | EIRP<br>(dBm) |       |       |
|--------------------|------------|--------------------------|-----------------------------------------|-------|-------|---------------|-------|-------|
|                    |            |                          | Low                                     | Mid   | High  | Low           | Mid   | High  |
| 1.4                | QPSK       | 1#0                      | 23.39                                   | 23.43 | 23.48 | 22.07         | 22.11 | 22.16 |
|                    |            | 1#3                      | 23.42                                   | 23.24 | 23.23 | 22.10         | 21.92 | 21.91 |
|                    |            | 1#5                      | 23.23                                   | 23.27 | 23.39 | 21.91         | 21.95 | 22.07 |
|                    |            | 3#0                      | 23.48                                   | 23.20 | 23.31 | 22.16         | 21.88 | 21.99 |
|                    |            | 3#3                      | 23.36                                   | 23.29 | 23.26 | 22.04         | 21.97 | 21.94 |
|                    |            | 6#0                      | 23.29                                   | 23.23 | 23.22 | 21.97         | 21.91 | 21.90 |
|                    | 16QAM      | 1#0                      | 23.52                                   | 23.36 | 23.45 | 22.20         | 22.04 | 22.13 |
|                    |            | 1#3                      | 23.23                                   | 23.45 | 23.25 | 21.91         | 22.13 | 21.93 |
|                    |            | 1#5                      | 23.29                                   | 23.19 | 23.29 | 21.97         | 21.87 | 21.97 |
|                    |            | 3#0                      | 23.21                                   | 23.43 | 23.26 | 21.89         | 22.11 | 21.94 |
|                    |            | 3#3                      | 23.29                                   | 23.36 | 23.49 | 21.97         | 22.04 | 22.17 |
|                    |            | 6#0                      | 23.23                                   | 23.17 | 23.19 | 21.91         | 21.85 | 21.87 |
| 3                  | QPSK       | 1#0                      | 23.25                                   | 23.34 | 23.43 | 21.93         | 22.02 | 22.11 |
|                    |            | 1#8                      | 23.31                                   | 23.44 | 23.23 | 21.99         | 22.12 | 21.91 |
|                    |            | 1#14                     | 23.32                                   | 23.31 | 23.40 | 22.00         | 21.99 | 22.08 |
|                    |            | 6#0                      | 23.43                                   | 23.25 | 23.41 | 22.11         | 21.93 | 22.09 |
|                    |            | 6#9                      | 23.50                                   | 23.28 | 23.29 | 22.18         | 21.96 | 21.97 |
|                    |            | 15#0                     | 23.27                                   | 23.18 | 23.17 | 21.95         | 21.86 | 21.85 |
|                    | 16QAM      | 1#0                      | 23.50                                   | 23.39 | 23.36 | 22.18         | 22.07 | 22.04 |
|                    |            | 1#8                      | 23.17                                   | 23.33 | 23.17 | 21.85         | 22.01 | 21.85 |
|                    |            | 1#14                     | 23.41                                   | 23.32 | 23.50 | 22.09         | 22.00 | 22.18 |
|                    |            | 6#0                      | 23.26                                   | 23.34 | 23.39 | 21.94         | 22.02 | 22.07 |
|                    |            | 6#9                      | 23.43                                   | 23.33 | 23.37 | 22.11         | 22.01 | 22.05 |
|                    |            | 15#0                     | 23.26                                   | 23.29 | 23.47 | 21.94         | 21.97 | 22.15 |
| 5                  | QPSK       | 1#0                      | 23.48                                   | 23.33 | 23.25 | 22.16         | 22.01 | 21.93 |
|                    |            | 1#13                     | 23.28                                   | 23.17 | 23.16 | 21.96         | 21.85 | 21.84 |
|                    |            | 1#24                     | 23.23                                   | 23.43 | 23.51 | 21.91         | 22.11 | 22.19 |
|                    |            | 15#0                     | 23.19                                   | 23.48 | 23.24 | 21.87         | 22.16 | 21.92 |
|                    |            | 15#10                    | 23.17                                   | 23.37 | 23.25 | 21.85         | 22.05 | 21.93 |
|                    |            | 25#0                     | 23.27                                   | 23.43 | 23.21 | 21.95         | 22.11 | 21.89 |
|                    | 16QAM      | 1#0                      | 23.33                                   | 23.46 | 23.50 | 22.01         | 22.14 | 22.18 |
|                    |            | 1#13                     | 23.31                                   | 23.26 | 23.50 | 21.99         | 21.94 | 22.18 |
|                    |            | 1#24                     | 23.28                                   | 23.40 | 23.42 | 21.96         | 22.08 | 22.10 |
|                    |            | 15#0                     | 23.28                                   | 23.35 | 23.31 | 21.96         | 22.03 | 21.99 |
|                    |            | 15#10                    | 23.23                                   | 23.20 | 23.39 | 21.91         | 21.88 | 22.07 |
|                    |            | 25#0                     | 23.49                                   | 23.41 | 23.24 | 22.17         | 22.09 | 21.92 |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB<br>Offset | Conducted Average Output Power<br>(dBm) |       |       | EIRP<br>(dBm) |       |       |
|--------------------|------------|--------------------------|-----------------------------------------|-------|-------|---------------|-------|-------|
|                    |            |                          | Low                                     | Mid   | High  | Low           | Mid   | High  |
| 10                 | QPSK       | 1#0                      | 23.35                                   | 23.31 | 23.41 | 22.03         | 21.99 | 22.09 |
|                    |            | 1#25                     | 23.39                                   | 23.19 | 23.52 | 22.07         | 21.87 | 22.20 |
|                    |            | 1#49                     | 23.45                                   | 23.23 | 23.38 | 22.13         | 21.91 | 22.06 |
|                    |            | 25#0                     | 23.35                                   | 23.36 | 23.37 | 22.03         | 22.04 | 22.05 |
|                    |            | 25#25                    | 23.31                                   | 23.35 | 23.26 | 21.99         | 22.03 | 21.94 |
|                    |            | 50#0                     | 23.31                                   | 23.22 | 23.41 | 21.99         | 21.90 | 22.09 |
|                    | 16QAM      | 1#0                      | 23.43                                   | 23.38 | 23.19 | 22.11         | 22.06 | 21.87 |
|                    |            | 1#25                     | 23.26                                   | 23.48 | 23.29 | 21.94         | 22.16 | 21.97 |
|                    |            | 1#49                     | 23.51                                   | 23.33 | 23.41 | 22.19         | 22.01 | 22.09 |
|                    |            | 25#0                     | 23.32                                   | 23.19 | 23.17 | 22.00         | 21.87 | 21.85 |
|                    |            | 25#25                    | 23.43                                   | 23.47 | 23.34 | 22.11         | 22.15 | 22.02 |
|                    |            | 50#0                     | 23.21                                   | 23.19 | 23.21 | 21.89         | 21.87 | 21.89 |
| 15                 | QPSK       | 1#0                      | 23.21                                   | 23.24 | 23.17 | 21.89         | 21.92 | 21.85 |
|                    |            | 1#38                     | 23.36                                   | 23.38 | 23.25 | 22.04         | 22.06 | 21.93 |
|                    |            | 1#74                     | 23.29                                   | 23.28 | 23.17 | 21.97         | 21.96 | 21.85 |
|                    |            | 36#0                     | 23.26                                   | 23.35 | 23.32 | 21.94         | 22.03 | 22.00 |
|                    |            | 36#39                    | 23.33                                   | 23.34 | 23.24 | 22.01         | 22.02 | 21.92 |
|                    |            | 75#0                     | 23.29                                   | 23.41 | 23.40 | 21.97         | 22.09 | 22.08 |
|                    | 16QAM      | 1#0                      | 23.37                                   | 23.28 | 23.36 | 22.05         | 21.96 | 22.04 |
|                    |            | 1#38                     | 23.26                                   | 23.24 | 23.27 | 21.94         | 21.92 | 21.95 |
|                    |            | 1#74                     | 23.37                                   | 23.36 | 23.31 | 22.05         | 22.04 | 21.99 |
|                    |            | 36#0                     | 23.40                                   | 23.33 | 23.36 | 22.08         | 22.01 | 22.04 |
|                    |            | 36#39                    | 23.33                                   | 23.24 | 23.33 | 22.01         | 21.92 | 22.01 |
|                    |            | 75#0                     | 23.19                                   | 23.27 | 23.16 | 21.87         | 21.95 | 21.84 |
| 20                 | QPSK       | 1#0                      | 23.20                                   | 23.22 | 23.25 | 21.88         | 21.90 | 21.93 |
|                    |            | 1#50                     | 23.32                                   | 23.32 | 23.22 | 22.00         | 22.00 | 21.90 |
|                    |            | 1#99                     | 23.18                                   | 23.27 | 23.38 | 21.86         | 21.95 | 22.06 |
|                    |            | 50#0                     | 23.31                                   | 23.36 | 23.17 | 21.99         | 22.04 | 21.85 |
|                    |            | 50#50                    | 23.18                                   | 23.25 | 23.40 | 21.86         | 21.93 | 22.08 |
|                    |            | 100#0                    | 23.21                                   | 23.28 | 23.36 | 21.89         | 21.96 | 22.04 |
|                    | 16QAM      | 1#0                      | 23.29                                   | 23.32 | 23.38 | 21.97         | 22.00 | 22.06 |
|                    |            | 1#50                     | 23.20                                   | 23.37 | 23.29 | 21.88         | 22.05 | 21.97 |
|                    |            | 1#99                     | 23.24                                   | 23.27 | 23.39 | 21.92         | 21.95 | 22.07 |
|                    |            | 50#0                     | 23.33                                   | 23.25 | 23.36 | 22.01         | 21.93 | 22.04 |
|                    |            | 50#50                    | 23.26                                   | 23.29 | 23.39 | 21.94         | 21.97 | 22.07 |
|                    |            | 100#0                    | 23.36                                   | 23.21 | 23.19 | 22.04         | 21.89 | 21.87 |

Note: EIRP (dBm) = Conducted Power(dBm) + Antenna Gain(dBi)

Limit: EIRP≤33dBm

## LTE Band 4

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB<br>Offset | Conducted Average Output Power<br>(dBm) |       |       | EIRP<br>(dBm) |       |       |
|--------------------|------------|--------------------------|-----------------------------------------|-------|-------|---------------|-------|-------|
|                    |            |                          | Low                                     | Mid   | High  | Low           | Mid   | High  |
| 1.4                | QPSK       | 1#0                      | 22.08                                   | 21.60 | 21.57 | 20.32         | 19.84 | 19.81 |
|                    |            | 1#3                      | 22.11                                   | 21.58 | 21.76 | 20.35         | 19.82 | 20.00 |
|                    |            | 1#5                      | 21.32                                   | 21.69 | 22.19 | 19.56         | 19.93 | 20.43 |
|                    |            | 3#0                      | 21.95                                   | 22.08 | 21.56 | 20.19         | 20.32 | 19.80 |
|                    |            | 3#3                      | 21.30                                   | 21.40 | 22.11 | 19.54         | 19.64 | 20.35 |
|                    |            | 6#0                      | 22.02                                   | 22.17 | 21.56 | 20.26         | 20.41 | 19.80 |
|                    | 16QAM      | 1#0                      | 21.55                                   | 21.72 | 21.60 | 19.79         | 19.96 | 19.84 |
|                    |            | 1#3                      | 22.10                                   | 21.51 | 22.20 | 20.34         | 19.75 | 20.44 |
|                    |            | 1#5                      | 22.14                                   | 21.39 | 21.96 | 20.38         | 19.63 | 20.20 |
|                    |            | 3#0                      | 21.49                                   | 22.03 | 22.11 | 19.73         | 20.27 | 20.35 |
|                    |            | 3#3                      | 22.11                                   | 22.20 | 21.29 | 20.35         | 20.44 | 19.53 |
|                    |            | 6#0                      | 22.25                                   | 21.41 | 21.72 | 20.49         | 19.65 | 19.96 |
| 3                  | QPSK       | 1#0                      | 21.82                                   | 21.38 | 22.06 | 20.06         | 19.62 | 20.30 |
|                    |            | 1#8                      | 21.38                                   | 21.35 | 22.24 | 19.62         | 19.59 | 20.48 |
|                    |            | 1#14                     | 21.37                                   | 21.43 | 21.92 | 19.61         | 19.67 | 20.16 |
|                    |            | 6#0                      | 21.93                                   | 22.09 | 21.50 | 20.17         | 20.33 | 19.74 |
|                    |            | 6#9                      | 21.82                                   | 22.06 | 21.31 | 20.06         | 20.30 | 19.55 |
|                    |            | 15#0                     | 21.81                                   | 21.86 | 21.62 | 20.05         | 20.10 | 19.86 |
|                    | 16QAM      | 1#0                      | 21.96                                   | 21.32 | 21.73 | 20.20         | 19.56 | 19.97 |
|                    |            | 1#8                      | 21.34                                   | 21.67 | 21.99 | 19.58         | 19.91 | 20.23 |
|                    |            | 1#14                     | 21.45                                   | 22.20 | 21.99 | 19.69         | 20.44 | 20.23 |
|                    |            | 6#0                      | 22.15                                   | 22.24 | 21.84 | 20.39         | 20.48 | 20.08 |
|                    |            | 6#9                      | 22.07                                   | 21.94 | 22.12 | 20.31         | 20.18 | 20.36 |
|                    |            | 15#0                     | 21.47                                   | 21.65 | 22.23 | 19.71         | 19.89 | 20.47 |
| 5                  | QPSK       | 1#0                      | 21.62                                   | 21.57 | 21.83 | 19.86         | 19.81 | 20.07 |
|                    |            | 1#13                     | 21.38                                   | 21.50 | 21.55 | 19.62         | 19.74 | 19.79 |
|                    |            | 1#24                     | 21.43                                   | 22.04 | 21.46 | 19.67         | 20.28 | 19.70 |
|                    |            | 15#0                     | 21.81                                   | 22.10 | 21.49 | 20.05         | 20.34 | 19.73 |
|                    |            | 15#10                    | 21.38                                   | 21.85 | 21.99 | 19.62         | 20.09 | 20.23 |
|                    |            | 25#0                     | 21.93                                   | 21.49 | 21.96 | 20.17         | 19.73 | 20.20 |
|                    | 16QAM      | 1#0                      | 21.97                                   | 21.91 | 21.92 | 20.21         | 20.15 | 20.16 |
|                    |            | 1#13                     | 21.34                                   | 21.73 | 21.66 | 19.58         | 19.97 | 19.90 |
|                    |            | 1#24                     | 21.92                                   | 21.89 | 21.37 | 20.16         | 20.13 | 19.61 |
|                    |            | 15#0                     | 22.09                                   | 21.99 | 21.41 | 20.33         | 20.23 | 19.65 |
|                    |            | 15#10                    | 21.88                                   | 22.02 | 21.33 | 20.12         | 20.26 | 19.57 |
|                    |            | 25#0                     | 21.97                                   | 21.72 | 21.64 | 20.21         | 19.96 | 19.88 |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB<br>Offset | Conducted Average Output Power<br>(dBm) |       |       | EIRP<br>(dBm) |       |       |
|--------------------|------------|--------------------------|-----------------------------------------|-------|-------|---------------|-------|-------|
|                    |            |                          | Low                                     | Mid   | High  | Low           | Mid   | High  |
| 10                 | QPSK       | 1#0                      | 21.68                                   | 21.85 | 21.66 | 19.92         | 20.09 | 19.90 |
|                    |            | 1#25                     | 21.91                                   | 22.22 | 21.92 | 20.15         | 20.46 | 20.16 |
|                    |            | 1#49                     | 21.53                                   | 22.17 | 21.84 | 19.77         | 20.41 | 20.08 |
|                    |            | 25#0                     | 21.92                                   | 22.14 | 21.74 | 20.16         | 20.38 | 19.98 |
|                    |            | 25#25                    | 21.69                                   | 22.25 | 21.71 | 19.93         | 20.49 | 19.95 |
|                    |            | 50#0                     | 21.68                                   | 21.43 | 21.66 | 19.92         | 19.67 | 19.90 |
|                    | 16QAM      | 1#0                      | 22.16                                   | 22.13 | 21.47 | 20.40         | 20.37 | 19.71 |
|                    |            | 1#25                     | 21.46                                   | 22.19 | 21.68 | 19.70         | 20.43 | 19.92 |
|                    |            | 1#49                     | 22.01                                   | 21.97 | 21.75 | 20.25         | 20.21 | 19.99 |
|                    |            | 25#0                     | 21.81                                   | 22.05 | 21.31 | 20.05         | 20.29 | 19.55 |
|                    |            | 25#25                    | 21.53                                   | 21.87 | 21.43 | 19.77         | 20.11 | 19.67 |
|                    |            | 50#0                     | 22.25                                   | 21.27 | 22.12 | 20.49         | 19.51 | 20.36 |
| 15                 | QPSK       | 1#0                      | 21.82                                   | 21.93 | 21.59 | 20.06         | 20.17 | 19.83 |
|                    |            | 1#38                     | 21.54                                   | 21.95 | 21.44 | 19.78         | 20.19 | 19.68 |
|                    |            | 1#74                     | 21.56                                   | 22.05 | 21.94 | 19.80         | 20.29 | 20.18 |
|                    |            | 36#0                     | 21.42                                   | 21.91 | 21.86 | 19.66         | 20.15 | 20.10 |
|                    |            | 36#39                    | 21.89                                   | 21.66 | 21.30 | 20.13         | 19.90 | 19.54 |
|                    |            | 75#0                     | 22.00                                   | 21.78 | 21.44 | 20.24         | 20.02 | 19.68 |
|                    | 16QAM      | 1#0                      | 21.68                                   | 21.31 | 21.84 | 19.92         | 19.55 | 20.08 |
|                    |            | 1#38                     | 21.99                                   | 21.51 | 22.15 | 20.23         | 19.75 | 20.39 |
|                    |            | 1#74                     | 21.29                                   | 21.66 | 22.13 | 19.53         | 19.90 | 20.37 |
|                    |            | 36#0                     | 21.87                                   | 21.63 | 21.52 | 20.11         | 19.87 | 19.76 |
|                    |            | 36#39                    | 22.07                                   | 22.05 | 21.77 | 20.31         | 20.29 | 20.01 |
|                    |            | 75#0                     | 21.73                                   | 21.32 | 21.50 | 19.97         | 19.56 | 19.74 |
| 20                 | QPSK       | 1#0                      | 22.08                                   | 21.60 | 21.78 | 20.32         | 19.84 | 20.02 |
|                    |            | 1#50                     | 22.12                                   | 22.24 | 21.73 | 20.36         | 20.48 | 19.97 |
|                    |            | 1#99                     | 21.40                                   | 21.77 | 21.93 | 19.64         | 20.01 | 20.17 |
|                    |            | 50#0                     | 21.93                                   | 21.54 | 21.45 | 20.17         | 19.78 | 19.69 |
|                    |            | 50#50                    | 21.63                                   | 22.12 | 21.99 | 19.87         | 20.36 | 20.23 |
|                    |            | 100#0                    | 21.83                                   | 21.95 | 22.09 | 20.07         | 20.19 | 20.33 |
|                    | 16QAM      | 1#0                      | 21.76                                   | 21.94 | 21.36 | 20.00         | 20.18 | 19.60 |
|                    |            | 1#50                     | 21.43                                   | 22.20 | 21.64 | 19.67         | 20.44 | 19.88 |
|                    |            | 1#99                     | 21.31                                   | 21.44 | 21.82 | 19.55         | 19.68 | 20.06 |
|                    |            | 50#0                     | 22.05                                   | 22.21 | 21.66 | 20.29         | 20.45 | 19.90 |
|                    |            | 50#50                    | 21.47                                   | 21.68 | 22.25 | 19.71         | 19.92 | 20.49 |
|                    |            | 100#0                    | 21.86                                   | 21.44 | 22.23 | 20.10         | 19.68 | 20.47 |

Note: EIRP (dBm) = Conducted Power(dBm) + Antenna Gain(dBi)

Limit: EIRP≤30dBm

**LTE Band 5**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB<br>Offset | Conducted Average Output Power<br>(dBm) |       |       | ERP<br>(dBm) |       |       |
|--------------------|------------|--------------------------|-----------------------------------------|-------|-------|--------------|-------|-------|
|                    |            |                          | Low                                     | Mid   | High  | Low          | Mid   | High  |
| 1.4                | QPSK       | 1#0                      | 23.55                                   | 23.53 | 23.34 | 18.47        | 18.45 | 18.26 |
|                    |            | 1#3                      | 23.50                                   | 23.52 | 23.51 | 18.42        | 18.44 | 18.43 |
|                    |            | 1#5                      | 23.49                                   | 23.30 | 23.37 | 18.41        | 18.22 | 18.29 |
|                    |            | 3#0                      | 23.44                                   | 23.27 | 23.37 | 18.36        | 18.19 | 18.29 |
|                    |            | 3#3                      | 23.52                                   | 23.37 | 23.30 | 18.44        | 18.29 | 18.22 |
|                    |            | 6#0                      | 23.39                                   | 23.40 | 23.41 | 18.31        | 18.32 | 18.33 |
|                    | 16QAM      | 1#0                      | 23.36                                   | 23.46 | 23.45 | 18.28        | 18.38 | 18.37 |
|                    |            | 1#3                      | 23.32                                   | 23.31 | 23.31 | 18.24        | 18.23 | 18.23 |
|                    |            | 1#5                      | 23.53                                   | 23.34 | 23.34 | 18.45        | 18.26 | 18.26 |
|                    |            | 3#0                      | 23.50                                   | 23.42 | 23.34 | 18.42        | 18.34 | 18.26 |
|                    |            | 3#3                      | 23.42                                   | 23.36 | 23.30 | 18.34        | 18.28 | 18.22 |
|                    |            | 6#0                      | 23.54                                   | 23.48 | 23.35 | 18.46        | 18.40 | 18.27 |
| 3                  | QPSK       | 1#0                      | 23.53                                   | 23.34 | 23.55 | 18.45        | 18.26 | 18.47 |
|                    |            | 1#8                      | 23.30                                   | 23.26 | 23.41 | 18.22        | 18.18 | 18.33 |
|                    |            | 1#14                     | 23.44                                   | 23.53 | 23.35 | 18.36        | 18.45 | 18.27 |
|                    |            | 6#0                      | 23.46                                   | 23.36 | 23.30 | 18.38        | 18.28 | 18.22 |
|                    |            | 6#9                      | 23.46                                   | 23.47 | 23.32 | 18.38        | 18.39 | 18.24 |
|                    |            | 15#0                     | 23.56                                   | 23.38 | 23.55 | 18.48        | 18.30 | 18.47 |
|                    | 16QAM      | 1#0                      | 23.44                                   | 23.39 | 23.31 | 18.36        | 18.31 | 18.23 |
|                    |            | 1#8                      | 23.40                                   | 23.50 | 23.37 | 18.32        | 18.42 | 18.29 |
|                    |            | 1#14                     | 23.36                                   | 23.43 | 23.40 | 18.28        | 18.35 | 18.32 |
|                    |            | 6#0                      | 23.55                                   | 23.31 | 23.44 | 18.47        | 18.23 | 18.36 |
|                    |            | 6#9                      | 23.33                                   | 23.40 | 23.41 | 18.25        | 18.32 | 18.33 |
|                    |            | 15#0                     | 23.36                                   | 23.42 | 23.27 | 18.28        | 18.34 | 18.19 |
| 5                  | QPSK       | 1#0                      | 23.29                                   | 23.32 | 23.54 | 18.21        | 18.24 | 18.46 |
|                    |            | 1#13                     | 23.48                                   | 23.28 | 23.42 | 18.40        | 18.20 | 18.34 |
|                    |            | 1#24                     | 23.56                                   | 23.47 | 23.51 | 18.48        | 18.39 | 18.43 |
|                    |            | 15#0                     | 23.48                                   | 23.26 | 23.55 | 18.40        | 18.18 | 18.47 |
|                    |            | 15#10                    | 23.40                                   | 23.40 | 23.40 | 18.32        | 18.32 | 18.32 |
|                    |            | 25#0                     | 23.34                                   | 23.27 | 23.43 | 18.26        | 18.19 | 18.35 |
|                    | 16QAM      | 1#0                      | 23.29                                   | 23.26 | 23.31 | 18.21        | 18.18 | 18.23 |
|                    |            | 1#13                     | 23.50                                   | 23.36 | 23.54 | 18.42        | 18.28 | 18.46 |
|                    |            | 1#24                     | 23.37                                   | 23.28 | 23.39 | 18.29        | 18.20 | 18.31 |
|                    |            | 15#0                     | 23.30                                   | 23.36 | 23.27 | 18.22        | 18.28 | 18.19 |
|                    |            | 15#10                    | 23.34                                   | 23.31 | 23.53 | 18.26        | 18.23 | 18.45 |
|                    |            | 25#0                     | 23.32                                   | 23.52 | 23.27 | 18.24        | 18.44 | 18.19 |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB<br>Offset | Conducted Average Output Power<br>(dBm) |       |       | ERP<br>(dBm) |       |       |
|--------------------|------------|--------------------------|-----------------------------------------|-------|-------|--------------|-------|-------|
|                    |            |                          | Low                                     | Mid   | High  | Low          | Mid   | High  |
| 10                 | QPSK       | 1#0                      | 23.38                                   | 23.40 | 23.30 | 18.30        | 18.32 | 18.22 |
|                    |            | 1#25                     | 23.54                                   | 23.34 | 23.41 | 18.46        | 18.26 | 18.33 |
|                    |            | 1#49                     | 23.36                                   | 23.42 | 23.50 | 18.28        | 18.34 | 18.42 |
|                    |            | 25#0                     | 23.41                                   | 23.55 | 23.31 | 18.33        | 18.47 | 18.23 |
|                    |            | 25#25                    | 23.27                                   | 23.33 | 23.29 | 18.19        | 18.25 | 18.21 |
|                    |            | 50#0                     | 23.35                                   | 23.47 | 23.41 | 18.27        | 18.39 | 18.33 |
|                    | 16QAM      | 1#0                      | 23.49                                   | 23.40 | 23.31 | 18.41        | 18.32 | 18.23 |
|                    |            | 1#25                     | 23.30                                   | 23.55 | 23.45 | 18.22        | 18.47 | 18.37 |
|                    |            | 1#49                     | 23.38                                   | 23.31 | 23.55 | 18.30        | 18.23 | 18.47 |
|                    |            | 25#0                     | 23.34                                   | 23.31 | 23.40 | 18.26        | 18.23 | 18.32 |
|                    |            | 25#25                    | 23.48                                   | 23.39 | 23.48 | 18.40        | 18.31 | 18.40 |
|                    |            | 50#0                     | 23.33                                   | 23.43 | 23.48 | 18.25        | 18.35 | 18.40 |

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)

Antenna Gain(dBd) = Antenna Gain(dBi)-2.15

Limit: ERP≤38.45dBm

**LTE Band 7**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB<br>Offset | Conducted Average Output Power<br>(dBm) |       |       | EIRP<br>(dBm) |       |       |
|--------------------|------------|--------------------------|-----------------------------------------|-------|-------|---------------|-------|-------|
|                    |            |                          | Low                                     | Mid   | High  | Low           | Mid   | High  |
| 5                  | QPSK       | 1#0                      | 21.30                                   | 21.84 | 21.89 | 22.95         | 23.49 | 23.54 |
|                    |            | 1#13                     | 22.06                                   | 22.06 | 21.65 | 23.71         | 23.71 | 23.30 |
|                    |            | 1#24                     | 21.92                                   | 22.08 | 21.30 | 23.57         | 23.73 | 22.95 |
|                    |            | 15#0                     | 22.14                                   | 22.06 | 21.69 | 23.79         | 23.71 | 23.34 |
|                    |            | 15#10                    | 22.10                                   | 21.39 | 22.18 | 23.75         | 23.04 | 23.83 |
|                    |            | 25#0                     | 21.73                                   | 22.08 | 21.70 | 23.38         | 23.73 | 23.35 |
|                    | 16QAM      | 1#0                      | 21.78                                   | 22.14 | 21.56 | 23.43         | 23.79 | 23.21 |
|                    |            | 1#13                     | 21.53                                   | 22.05 | 21.93 | 23.18         | 23.70 | 23.58 |
|                    |            | 1#24                     | 21.47                                   | 21.90 | 21.46 | 23.12         | 23.55 | 23.11 |
|                    |            | 15#0                     | 21.50                                   | 21.70 | 22.22 | 23.15         | 23.35 | 23.87 |
|                    |            | 15#10                    | 21.88                                   | 21.28 | 21.36 | 23.53         | 22.93 | 23.01 |
|                    |            | 25#0                     | 21.40                                   | 21.43 | 21.58 | 23.05         | 23.08 | 23.23 |
| 10                 | QPSK       | 1#0                      | 22.03                                   | 21.80 | 22.01 | 23.68         | 23.45 | 23.66 |
|                    |            | 1#25                     | 21.71                                   | 22.24 | 21.45 | 23.36         | 23.89 | 23.10 |
|                    |            | 1#49                     | 21.83                                   | 21.30 | 21.39 | 23.48         | 22.95 | 23.04 |
|                    |            | 25#0                     | 21.78                                   | 21.94 | 21.44 | 23.43         | 23.59 | 23.09 |
|                    |            | 25#25                    | 21.55                                   | 21.97 | 21.52 | 23.20         | 23.62 | 23.17 |
|                    |            | 50#0                     | 22.20                                   | 21.67 | 21.69 | 23.85         | 23.32 | 23.34 |
|                    | 16QAM      | 1#0                      | 21.66                                   | 21.57 | 22.05 | 23.31         | 23.22 | 23.70 |
|                    |            | 1#25                     | 21.34                                   | 21.56 | 22.10 | 22.99         | 23.21 | 23.75 |
|                    |            | 1#49                     | 22.02                                   | 21.44 | 22.06 | 23.67         | 23.09 | 23.71 |
|                    |            | 25#0                     | 21.49                                   | 21.28 | 22.12 | 23.14         | 22.93 | 23.77 |
|                    |            | 25#25                    | 21.81                                   | 21.70 | 22.09 | 23.46         | 23.35 | 23.74 |
|                    |            | 50#0                     | 21.55                                   | 22.03 | 21.76 | 23.20         | 23.68 | 23.41 |
| 15                 | QPSK       | 1#0                      | 21.68                                   | 22.25 | 22.15 | 23.33         | 23.90 | 23.80 |
|                    |            | 1#38                     | 21.86                                   | 22.13 | 21.37 | 23.51         | 23.78 | 23.02 |
|                    |            | 1#74                     | 21.96                                   | 21.75 | 21.93 | 23.61         | 23.40 | 23.58 |
|                    |            | 36#0                     | 21.32                                   | 22.03 | 21.76 | 22.97         | 23.68 | 23.41 |
|                    |            | 36#39                    | 22.20                                   | 21.54 | 21.49 | 23.85         | 23.19 | 23.14 |
|                    |            | 75#0                     | 21.91                                   | 21.95 | 21.45 | 23.56         | 23.60 | 23.10 |
|                    | 16QAM      | 1#0                      | 21.99                                   | 21.94 | 22.20 | 23.64         | 23.59 | 23.85 |
|                    |            | 1#38                     | 21.96                                   | 21.39 | 22.14 | 23.61         | 23.04 | 23.79 |
|                    |            | 1#74                     | 22.17                                   | 22.22 | 21.75 | 23.82         | 23.87 | 23.40 |
|                    |            | 36#0                     | 22.24                                   | 21.83 | 22.23 | 23.89         | 23.48 | 23.88 |
|                    |            | 36#39                    | 21.90                                   | 21.77 | 21.63 | 23.55         | 23.42 | 23.28 |
|                    |            | 75#0                     | 21.78                                   | 22.12 | 21.47 | 23.43         | 23.77 | 23.12 |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB<br>Offset | Conducted Average Output Power<br>(dBm) |       |       | EIRP<br>(dBm) |       |       |
|--------------------|------------|--------------------------|-----------------------------------------|-------|-------|---------------|-------|-------|
|                    |            |                          | Low                                     | Mid   | High  | Low           | Mid   | High  |
| 20                 | QPSK       | 1#0                      | 21.61                                   | 22.08 | 21.78 | 23.26         | 23.73 | 23.43 |
|                    |            | 1#50                     | 21.52                                   | 21.52 | 21.60 | 23.17         | 23.17 | 23.25 |
|                    |            | 1#99                     | 21.85                                   | 21.75 | 21.40 | 23.50         | 23.40 | 23.05 |
|                    |            | 50#0                     | 21.31                                   | 21.68 | 21.58 | 22.96         | 23.33 | 23.23 |
|                    |            | 50#50                    | 21.65                                   | 22.10 | 21.58 | 23.30         | 23.75 | 23.23 |
|                    |            | 100#0                    | 21.42                                   | 21.49 | 22.20 | 23.07         | 23.14 | 23.85 |
|                    | 16QAM      | 1#0                      | 21.86                                   | 22.16 | 22.06 | 23.51         | 23.81 | 23.71 |
|                    |            | 1#50                     | 21.92                                   | 22.25 | 22.13 | 23.57         | 23.90 | 23.78 |
|                    |            | 1#99                     | 21.81                                   | 21.78 | 22.18 | 23.46         | 23.43 | 23.83 |
|                    |            | 50#0                     | 21.35                                   | 22.00 | 22.25 | 23.00         | 23.65 | 23.90 |
|                    |            | 50#50                    | 21.43                                   | 22.14 | 21.97 | 23.08         | 23.79 | 23.62 |
|                    |            | 100#0                    | 21.72                                   | 21.62 | 21.46 | 23.37         | 23.27 | 23.11 |

Note: EIRP (dBm) = Conducted Power(dBm) + Antenna Gain(dBi)

Limit: EIRP $\leq$ 33dBm

**LTE Band 12**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB<br>Offset | Conducted Average Output Power<br>(dBm) |       |       | ERP<br>(dBm) |       |       |
|--------------------|------------|--------------------------|-----------------------------------------|-------|-------|--------------|-------|-------|
|                    |            |                          | Low                                     | Mid   | High  | Low          | Mid   | High  |
| 1.4                | QPSK       | 1#0                      | 22.73                                   | 23.29 | 22.82 | 16.76        | 17.32 | 16.85 |
|                    |            | 1#3                      | 22.32                                   | 22.24 | 22.42 | 16.35        | 16.27 | 16.45 |
|                    |            | 1#5                      | 22.78                                   | 22.30 | 23.35 | 16.81        | 16.33 | 17.38 |
|                    |            | 3#0                      | 22.75                                   | 22.43 | 23.00 | 16.78        | 16.46 | 17.03 |
|                    |            | 3#3                      | 22.79                                   | 22.87 | 22.60 | 16.82        | 16.90 | 16.63 |
|                    |            | 6#0                      | 22.25                                   | 22.87 | 22.23 | 16.28        | 16.90 | 16.26 |
|                    | 16QAM      | 1#0                      | 22.57                                   | 22.78 | 22.32 | 16.60        | 16.81 | 16.35 |
|                    |            | 1#3                      | 23.35                                   | 22.33 | 22.87 | 17.38        | 16.36 | 16.90 |
|                    |            | 1#5                      | 22.87                                   | 22.49 | 22.26 | 16.90        | 16.52 | 16.29 |
|                    |            | 3#0                      | 22.91                                   | 22.80 | 23.11 | 16.94        | 16.83 | 17.14 |
|                    |            | 3#3                      | 23.45                                   | 22.78 | 23.26 | 17.48        | 16.81 | 17.29 |
|                    |            | 6#0                      | 22.52                                   | 22.25 | 23.16 | 16.55        | 16.28 | 17.19 |
| 3                  | QPSK       | 1#0                      | 22.16                                   | 22.24 | 22.92 | 16.19        | 16.27 | 16.95 |
|                    |            | 1#8                      | 23.23                                   | 22.39 | 22.15 | 17.26        | 16.42 | 16.18 |
|                    |            | 1#14                     | 22.54                                   | 23.10 | 22.96 | 16.57        | 17.13 | 16.99 |
|                    |            | 6#0                      | 23.24                                   | 22.71 | 22.97 | 17.27        | 16.74 | 17.00 |
|                    |            | 6#9                      | 22.48                                   | 22.29 | 22.70 | 16.51        | 16.32 | 16.73 |
|                    |            | 15#0                     | 22.23                                   | 22.53 | 23.36 | 16.26        | 16.56 | 17.39 |
|                    | 16QAM      | 1#0                      | 22.84                                   | 22.43 | 22.79 | 16.87        | 16.46 | 16.82 |
|                    |            | 1#8                      | 22.33                                   | 22.28 | 23.12 | 16.36        | 16.31 | 17.15 |
|                    |            | 1#14                     | 23.03                                   | 23.45 | 22.39 | 17.06        | 17.48 | 16.42 |
|                    |            | 6#0                      | 22.39                                   | 22.36 | 22.34 | 16.42        | 16.39 | 16.37 |
|                    |            | 6#9                      | 22.97                                   | 22.87 | 23.04 | 17.00        | 16.90 | 17.07 |
|                    |            | 15#0                     | 23.22                                   | 22.87 | 22.39 | 17.25        | 16.90 | 16.42 |
| 5                  | QPSK       | 1#0                      | 23.28                                   | 22.71 | 23.06 | 17.31        | 16.74 | 17.09 |
|                    |            | 1#13                     | 23.08                                   | 22.46 | 23.07 | 17.11        | 16.49 | 17.10 |
|                    |            | 1#24                     | 22.97                                   | 23.37 | 22.61 | 17.00        | 17.40 | 16.64 |
|                    |            | 15#0                     | 22.22                                   | 22.67 | 23.03 | 16.25        | 16.70 | 17.06 |
|                    |            | 15#10                    | 23.20                                   | 22.66 | 22.87 | 17.23        | 16.69 | 16.90 |
|                    |            | 25#0                     | 22.96                                   | 23.14 | 22.68 | 16.99        | 17.17 | 16.71 |
|                    | 16QAM      | 1#0                      | 22.24                                   | 23.19 | 22.79 | 16.27        | 17.22 | 16.82 |
|                    |            | 1#13                     | 23.40                                   | 23.30 | 22.55 | 17.43        | 17.33 | 16.58 |
|                    |            | 1#24                     | 23.37                                   | 22.19 | 23.25 | 17.40        | 16.22 | 17.28 |
|                    |            | 15#0                     | 22.81                                   | 22.38 | 23.21 | 16.84        | 16.41 | 17.24 |
|                    |            | 15#10                    | 22.84                                   | 22.81 | 22.44 | 16.87        | 16.84 | 16.47 |
|                    |            | 25#0                     | 22.61                                   | 23.18 | 22.77 | 16.64        | 17.21 | 16.80 |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB<br>Offset | Conducted Average Output Power<br>(dBm) |       |       | ERP<br>(dBm) |       |       |
|--------------------|------------|--------------------------|-----------------------------------------|-------|-------|--------------|-------|-------|
|                    |            |                          | Low                                     | Mid   | High  | Low          | Mid   | High  |
| 10                 | QPSK       | 1#0                      | 23.44                                   | 22.43 | 22.66 | 17.47        | 16.46 | 16.69 |
|                    |            | 1#25                     | 22.94                                   | 22.94 | 23.30 | 16.97        | 16.97 | 17.33 |
|                    |            | 1#49                     | 23.21                                   | 22.65 | 23.24 | 17.24        | 16.68 | 17.27 |
|                    |            | 25#0                     | 23.42                                   | 22.90 | 22.94 | 17.45        | 16.93 | 16.97 |
|                    |            | 25#25                    | 22.88                                   | 22.28 | 22.16 | 16.91        | 16.31 | 16.19 |
|                    |            | 50#0                     | 23.35                                   | 22.73 | 23.26 | 17.38        | 16.76 | 17.29 |
|                    | 16QAM      | 1#0                      | 23.30                                   | 22.83 | 23.04 | 17.33        | 16.86 | 17.07 |
|                    |            | 1#25                     | 22.39                                   | 23.45 | 22.62 | 16.42        | 17.48 | 16.65 |
|                    |            | 1#49                     | 22.50                                   | 22.86 | 23.11 | 16.53        | 16.89 | 17.14 |
|                    |            | 25#0                     | 22.61                                   | 23.10 | 22.49 | 16.64        | 17.13 | 16.52 |
|                    |            | 25#25                    | 22.69                                   | 22.86 | 23.40 | 16.72        | 16.89 | 17.43 |
|                    |            | 50#0                     | 23.25                                   | 23.05 | 22.32 | 17.28        | 17.08 | 16.35 |

Note: ERP (dBm) = Conducted Power (dBm) + Antenna Gain (dBd)

Antenna Gain (dBd) = Antenna Gain (dBi)-2.15

Limit: ERP≤34.77dBm

**LTE Band 17**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB<br>Offset | Conducted Average Output Power<br>(dBm) |       |       | ERP<br>(dBm) |       |       |
|--------------------|------------|--------------------------|-----------------------------------------|-------|-------|--------------|-------|-------|
|                    |            |                          | Low                                     | Mid   | High  | Low          | Mid   | High  |
| 5                  | QPSK       | 1#0                      | 22.58                                   | 22.54 | 22.79 | 16.61        | 16.57 | 16.82 |
|                    |            | 1#13                     | 22.95                                   | 22.87 | 22.39 | 16.98        | 16.90 | 16.42 |
|                    |            | 1#24                     | 22.78                                   | 22.61 | 22.47 | 16.81        | 16.64 | 16.50 |
|                    |            | 15#0                     | 22.55                                   | 22.74 | 22.51 | 16.58        | 16.77 | 16.54 |
|                    |            | 15#10                    | 23.23                                   | 22.59 | 23.20 | 17.26        | 16.62 | 17.23 |
|                    |            | 25#0                     | 23.15                                   | 22.30 | 22.32 | 17.18        | 16.33 | 16.35 |
|                    | 16QAM      | 1#0                      | 22.80                                   | 23.00 | 22.35 | 16.83        | 17.03 | 16.38 |
|                    |            | 1#13                     | 22.28                                   | 22.55 | 22.92 | 16.31        | 16.58 | 16.95 |
|                    |            | 1#24                     | 23.05                                   | 22.88 | 22.72 | 17.08        | 16.91 | 16.75 |
|                    |            | 15#0                     | 22.48                                   | 22.35 | 22.45 | 16.51        | 16.38 | 16.48 |
|                    |            | 15#10                    | 22.42                                   | 22.68 | 22.32 | 16.45        | 16.71 | 16.35 |
|                    |            | 25#0                     | 22.76                                   | 23.03 | 22.32 | 16.79        | 17.06 | 16.35 |
| 10                 | QPSK       | 1#0                      | 23.27                                   | 23.33 | 23.16 | 17.30        | 17.36 | 17.19 |
|                    |            | 1#25                     | 22.68                                   | 22.89 | 22.85 | 16.71        | 16.92 | 16.88 |
|                    |            | 1#49                     | 22.54                                   | 23.22 | 23.17 | 16.57        | 17.25 | 17.20 |
|                    |            | 25#0                     | 23.18                                   | 23.19 | 23.11 | 17.21        | 17.22 | 17.14 |
|                    |            | 25#25                    | 22.44                                   | 22.52 | 22.43 | 16.47        | 16.55 | 16.46 |
|                    |            | 50#0                     | 22.87                                   | 22.91 | 22.63 | 16.90        | 16.94 | 16.66 |
|                    | 16QAM      | 1#0                      | 22.63                                   | 23.05 | 22.55 | 16.66        | 17.08 | 16.58 |
|                    |            | 1#25                     | 23.26                                   | 22.64 | 22.40 | 17.29        | 16.67 | 16.43 |
|                    |            | 1#49                     | 22.97                                   | 23.11 | 22.57 | 17.00        | 17.14 | 16.60 |
|                    |            | 25#0                     | 22.53                                   | 22.93 | 22.48 | 16.56        | 16.96 | 16.51 |
|                    |            | 25#25                    | 22.61                                   | 22.74 | 22.93 | 16.64        | 16.77 | 16.96 |
|                    |            | 50#0                     | 22.70                                   | 22.36 | 22.65 | 16.73        | 16.39 | 16.68 |

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)

Antenna Gain(dBd) = Antenna Gain(dBi)-2.15

Limit: ERP≤34.77dBm

**LTE Band 25**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB<br>Offset | Conducted Average Output Power<br>(dBm) |       |       | EIRP<br>(dBm) |       |       |
|--------------------|------------|--------------------------|-----------------------------------------|-------|-------|---------------|-------|-------|
|                    |            |                          | Low                                     | Mid   | High  | Low           | Mid   | High  |
| 1.4                | QPSK       | 1#0                      | 23.07                                   | 22.93 | 22.82 | 21.75         | 21.61 | 21.50 |
|                    |            | 1#3                      | 22.66                                   | 22.88 | 22.91 | 21.34         | 21.56 | 21.59 |
|                    |            | 1#5                      | 22.99                                   | 23.19 | 22.62 | 21.67         | 21.87 | 21.30 |
|                    |            | 3#0                      | 23.32                                   | 22.65 | 22.72 | 22.00         | 21.33 | 21.40 |
|                    |            | 3#3                      | 22.93                                   | 23.10 | 23.16 | 21.61         | 21.78 | 21.84 |
|                    |            | 6#0                      | 23.00                                   | 23.17 | 22.63 | 21.68         | 21.85 | 21.31 |
|                    | 16QAM      | 1#0                      | 23.23                                   | 22.56 | 23.04 | 21.91         | 21.24 | 21.72 |
|                    |            | 1#3                      | 22.96                                   | 23.37 | 23.36 | 21.64         | 22.05 | 22.04 |
|                    |            | 1#5                      | 23.35                                   | 23.20 | 22.85 | 22.03         | 21.88 | 21.53 |
|                    |            | 3#0                      | 23.13                                   | 22.85 | 23.26 | 21.81         | 21.53 | 21.94 |
|                    |            | 3#3                      | 23.18                                   | 22.88 | 23.11 | 21.86         | 21.56 | 21.79 |
|                    |            | 6#0                      | 23.46                                   | 22.61 | 23.48 | 22.14         | 21.29 | 22.16 |
| 3                  | QPSK       | 1#0                      | 22.97                                   | 22.89 | 23.30 | 21.65         | 21.57 | 21.98 |
|                    |            | 1#8                      | 23.37                                   | 23.14 | 22.99 | 22.05         | 21.82 | 21.67 |
|                    |            | 1#14                     | 23.23                                   | 23.03 | 22.76 | 21.91         | 21.71 | 21.44 |
|                    |            | 6#0                      | 23.22                                   | 22.92 | 22.89 | 21.90         | 21.60 | 21.57 |
|                    |            | 6#9                      | 23.27                                   | 22.58 | 22.75 | 21.95         | 21.26 | 21.43 |
|                    |            | 15#0                     | 23.27                                   | 23.02 | 23.30 | 21.95         | 21.70 | 21.98 |
|                    | 16QAM      | 1#0                      | 23.34                                   | 23.18 | 22.88 | 22.02         | 21.86 | 21.56 |
|                    |            | 1#8                      | 22.63                                   | 22.76 | 22.56 | 21.31         | 21.44 | 21.24 |
|                    |            | 1#14                     | 22.75                                   | 23.41 | 23.52 | 21.43         | 22.09 | 22.20 |
|                    |            | 6#0                      | 22.72                                   | 23.22 | 22.89 | 21.40         | 21.90 | 21.57 |
|                    |            | 6#9                      | 23.28                                   | 22.71 | 23.06 | 21.96         | 21.39 | 21.74 |
|                    |            | 15#0                     | 23.35                                   | 23.42 | 23.18 | 22.03         | 22.10 | 21.86 |
| 5                  | QPSK       | 1#0                      | 22.94                                   | 23.43 | 23.04 | 21.62         | 22.11 | 21.72 |
|                    |            | 1#13                     | 22.64                                   | 22.83 | 23.10 | 21.32         | 21.51 | 21.78 |
|                    |            | 1#24                     | 22.78                                   | 22.62 | 23.33 | 21.46         | 21.30 | 22.01 |
|                    |            | 15#0                     | 23.12                                   | 22.74 | 22.78 | 21.80         | 21.42 | 21.46 |
|                    |            | 15#10                    | 22.60                                   | 23.21 | 23.39 | 21.28         | 21.89 | 22.07 |
|                    |            | 25#0                     | 23.16                                   | 22.61 | 23.21 | 21.84         | 21.29 | 21.89 |
|                    | 16QAM      | 1#0                      | 23.10                                   | 22.90 | 23.36 | 21.78         | 21.58 | 22.04 |
|                    |            | 1#13                     | 22.87                                   | 22.76 | 22.70 | 21.55         | 21.44 | 21.38 |
|                    |            | 1#24                     | 23.25                                   | 22.91 | 23.53 | 21.93         | 21.59 | 22.21 |
|                    |            | 15#0                     | 22.96                                   | 23.44 | 22.84 | 21.64         | 22.12 | 21.52 |
|                    |            | 15#10                    | 22.98                                   | 22.61 | 22.75 | 21.66         | 21.29 | 21.43 |
|                    |            | 25#0                     | 23.22                                   | 23.23 | 22.95 | 21.90         | 21.91 | 21.63 |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB<br>Offset | Conducted Average Output Power<br>(dBm) |       |       | EIRP<br>(dBm) |       |       |
|--------------------|------------|--------------------------|-----------------------------------------|-------|-------|---------------|-------|-------|
|                    |            |                          | Low                                     | Mid   | High  | Low           | Mid   | High  |
| 10                 | QPSK       | 1#0                      | 23.44                                   | 23.25 | 23.16 | 22.12         | 21.93 | 21.84 |
|                    |            | 1#25                     | 23.49                                   | 23.03 | 22.62 | 22.17         | 21.71 | 21.30 |
|                    |            | 1#49                     | 22.59                                   | 22.73 | 23.43 | 21.27         | 21.41 | 22.11 |
|                    |            | 25#0                     | 23.35                                   | 22.96 | 23.45 | 22.03         | 21.64 | 22.13 |
|                    |            | 25#25                    | 23.42                                   | 22.90 | 22.65 | 22.10         | 21.58 | 21.33 |
|                    |            | 50#0                     | 23.15                                   | 23.33 | 22.87 | 21.83         | 22.01 | 21.55 |
|                    | 16QAM      | 1#0                      | 22.95                                   | 22.66 | 22.81 | 21.63         | 21.34 | 21.49 |
|                    |            | 1#25                     | 22.91                                   | 23.14 | 23.44 | 21.59         | 21.82 | 22.12 |
|                    |            | 1#49                     | 23.07                                   | 22.93 | 22.73 | 21.75         | 21.61 | 21.41 |
|                    |            | 25#0                     | 23.05                                   | 23.36 | 22.89 | 21.73         | 22.04 | 21.57 |
|                    |            | 25#25                    | 22.71                                   | 23.00 | 22.87 | 21.39         | 21.68 | 21.55 |
|                    |            | 50#0                     | 23.52                                   | 23.19 | 22.76 | 22.20         | 21.87 | 21.44 |
| 15                 | QPSK       | 1#0                      | 22.95                                   | 23.43 | 22.57 | 21.63         | 22.11 | 21.25 |
|                    |            | 1#38                     | 22.62                                   | 22.89 | 23.33 | 21.30         | 21.57 | 22.01 |
|                    |            | 1#74                     | 22.98                                   | 22.89 | 22.85 | 21.66         | 21.57 | 21.53 |
|                    |            | 36#0                     | 23.16                                   | 23.33 | 22.78 | 21.84         | 22.01 | 21.46 |
|                    |            | 36#39                    | 23.44                                   | 22.94 | 23.13 | 22.12         | 21.62 | 21.81 |
|                    |            | 75#0                     | 23.26                                   | 23.46 | 22.65 | 21.94         | 22.14 | 21.33 |
|                    | 16QAM      | 1#0                      | 23.13                                   | 22.82 | 23.03 | 21.81         | 21.50 | 21.71 |
|                    |            | 1#38                     | 22.93                                   | 22.70 | 23.13 | 21.61         | 21.38 | 21.81 |
|                    |            | 1#74                     | 23.05                                   | 23.27 | 22.86 | 21.73         | 21.95 | 21.54 |
|                    |            | 36#0                     | 23.40                                   | 22.59 | 23.45 | 22.08         | 21.27 | 22.13 |
|                    |            | 36#39                    | 23.30                                   | 22.62 | 22.60 | 21.98         | 21.30 | 21.28 |
|                    |            | 75#0                     | 22.96                                   | 23.40 | 23.01 | 21.64         | 22.08 | 21.69 |
| 20                 | QPSK       | 1#0                      | 23.54                                   | 23.56 | 23.48 | 22.22         | 22.24 | 22.16 |
|                    |            | 1#50                     | 23.39                                   | 22.72 | 22.99 | 22.07         | 21.40 | 21.67 |
|                    |            | 1#99                     | 22.57                                   | 23.38 | 23.11 | 21.25         | 22.06 | 21.79 |
|                    |            | 50#0                     | 23.48                                   | 23.11 | 22.97 | 22.16         | 21.79 | 21.65 |
|                    |            | 50#50                    | 22.67                                   | 23.40 | 23.06 | 21.35         | 22.08 | 21.74 |
|                    |            | 100#0                    | 23.32                                   | 23.03 | 23.37 | 22.00         | 21.71 | 22.05 |
|                    | 16QAM      | 1#0                      | 22.78                                   | 23.29 | 22.64 | 21.46         | 21.97 | 21.32 |
|                    |            | 1#50                     | 23.47                                   | 23.25 | 22.60 | 22.15         | 21.93 | 21.28 |
|                    |            | 1#99                     | 22.70                                   | 23.12 | 22.56 | 21.38         | 21.80 | 21.24 |
|                    |            | 50#0                     | 23.40                                   | 23.33 | 23.51 | 22.08         | 22.01 | 22.19 |
|                    |            | 50#50                    | 23.14                                   | 22.55 | 22.71 | 21.82         | 21.23 | 21.39 |
|                    |            | 100#0                    | 23.02                                   | 23.02 | 22.89 | 21.70         | 21.70 | 21.57 |

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)

Limit: EIRP≤33dBm

**LTE Band 26(814-824MHz)**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB<br>Offset | Conducted Average Output Power<br>(dBm) |       |       | ERP<br>(dBm) |       |       |
|--------------------|------------|--------------------------|-----------------------------------------|-------|-------|--------------|-------|-------|
|                    |            |                          | Low                                     | High  | Cross | Low          | High  | Cross |
| 1.4                | QPSK       | 1#0                      | 23.05                                   | 23.03 | 22.67 | 17.97        | 17.95 | 17.59 |
|                    |            | 1#3                      | 23.13                                   | 23.30 | 22.76 | 18.05        | 18.22 | 17.68 |
|                    |            | 1#5                      | 22.66                                   | 22.79 | 22.77 | 17.58        | 17.71 | 17.69 |
|                    |            | 3#0                      | 22.69                                   | 23.21 | 23.31 | 17.61        | 18.13 | 18.23 |
|                    |            | 3#3                      | 23.34                                   | 22.99 | 22.83 | 18.26        | 17.91 | 17.75 |
|                    |            | 6#0                      | 23.17                                   | 22.61 | 23.36 | 18.09        | 17.53 | 18.28 |
|                    | 16QAM      | 1#0                      | 22.84                                   | 22.90 | 22.46 | 17.76        | 17.82 | 17.38 |
|                    |            | 1#3                      | 23.12                                   | 23.13 | 23.23 | 18.04        | 18.05 | 18.15 |
|                    |            | 1#5                      | 22.92                                   | 22.68 | 22.47 | 17.84        | 17.60 | 17.39 |
|                    |            | 3#0                      | 22.70                                   | 22.89 | 23.11 | 17.62        | 17.81 | 18.03 |
|                    |            | 3#3                      | 22.40                                   | 23.19 | 22.73 | 17.32        | 18.11 | 17.65 |
|                    |            | 6#0                      | 22.84                                   | 22.95 | 23.24 | 17.76        | 17.87 | 18.16 |
| 3                  | QPSK       | 1#0                      | 22.74                                   | 22.72 | 22.72 | 17.66        | 17.64 | 17.64 |
|                    |            | 1#8                      | 22.26                                   | 23.18 | 22.27 | 17.18        | 18.10 | 17.19 |
|                    |            | 1#14                     | 22.20                                   | 22.66 | 22.69 | 17.12        | 17.58 | 17.61 |
|                    |            | 6#0                      | 22.73                                   | 23.05 | 23.20 | 17.65        | 17.97 | 18.12 |
|                    |            | 6#9                      | 23.27                                   | 22.17 | 22.32 | 18.19        | 17.09 | 17.24 |
|                    |            | 15#0                     | 22.71                                   | 22.33 | 22.23 | 17.63        | 17.25 | 17.15 |
|                    | 16QAM      | 1#0                      | 22.94                                   | 22.18 | 23.20 | 17.86        | 17.10 | 18.12 |
|                    |            | 1#8                      | 23.06                                   | 22.77 | 22.47 | 17.98        | 17.69 | 17.39 |
|                    |            | 1#14                     | 23.26                                   | 23.02 | 22.68 | 18.18        | 17.94 | 17.60 |
|                    |            | 6#0                      | 23.25                                   | 23.40 | 22.50 | 18.17        | 18.32 | 17.42 |
|                    |            | 6#9                      | 22.83                                   | 22.27 | 22.77 | 17.75        | 17.19 | 17.69 |
|                    |            | 15#0                     | 22.82                                   | 22.94 | 22.33 | 17.74        | 17.86 | 17.25 |
| 5                  | QPSK       | 1#0                      | 23.38                                   | 22.60 | 22.20 | 18.30        | 17.52 | 17.12 |
|                    |            | 1#13                     | 22.36                                   | 22.21 | 22.79 | 17.28        | 17.13 | 17.71 |
|                    |            | 1#24                     | 22.81                                   | 22.21 | 22.29 | 17.73        | 17.13 | 17.21 |
|                    |            | 15#0                     | 22.70                                   | 23.21 | 22.27 | 17.62        | 18.13 | 17.19 |
|                    |            | 15#10                    | 22.74                                   | 23.08 | 23.19 | 17.66        | 18.00 | 18.11 |
|                    |            | 25#0                     | 23.29                                   | 22.53 | 22.46 | 18.21        | 17.45 | 17.38 |
|                    | 16QAM      | 1#0                      | 23.14                                   | 23.08 | 23.40 | 18.06        | 18.00 | 18.32 |
|                    |            | 1#13                     | 22.20                                   | 23.20 | 22.57 | 17.12        | 18.12 | 17.49 |
|                    |            | 1#24                     | 22.62                                   | 23.19 | 22.88 | 17.54        | 18.11 | 17.80 |
|                    |            | 15#0                     | 22.98                                   | 22.85 | 23.14 | 17.90        | 17.77 | 18.06 |
|                    |            | 15#10                    | 23.32                                   | 22.19 | 22.21 | 18.24        | 17.11 | 17.13 |
|                    |            | 25#0                     | 23.08                                   | 22.50 | 22.76 | 18.00        | 17.42 | 17.68 |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB<br>Offset | Conducted Average Output Power<br>(dBm) |      |       | ERP<br>(dBm) |      |       |
|--------------------|------------|--------------------------|-----------------------------------------|------|-------|--------------|------|-------|
|                    |            |                          | Low                                     | High | Cross | Low          | High | Cross |
| 10                 | QPSK       | 1#0                      | 23.09                                   | /    | 22.49 | 18.01        | /    | 17.41 |
|                    |            | 1#25                     | 22.75                                   | /    | 22.20 | 17.67        | /    | 17.12 |
|                    |            | 1#49                     | 22.23                                   | /    | 22.99 | 17.15        | /    | 17.91 |
|                    |            | 25#0                     | 22.79                                   | /    | 22.63 | 17.71        | /    | 17.55 |
|                    |            | 25#25                    | 22.62                                   | /    | 23.39 | 17.54        | /    | 18.31 |
|                    |            | 50#0                     | 23.25                                   | /    | 22.59 | 18.17        | /    | 17.51 |
|                    | 16QAM      | 1#0                      | 22.65                                   | /    | 22.89 | 17.57        | /    | 17.81 |
|                    |            | 1#25                     | 23.03                                   | /    | 23.03 | 17.95        | /    | 17.95 |
|                    |            | 1#49                     | 22.95                                   | /    | 22.79 | 17.87        | /    | 17.71 |
|                    |            | 25#0                     | 22.40                                   | /    | 22.72 | 17.32        | /    | 17.64 |
|                    |            | 25#25                    | 23.36                                   | /    | 23.40 | 18.28        | /    | 18.32 |
|                    |            | 50#0                     | 22.25                                   | /    | 22.91 | 17.17        | /    | 17.83 |
| 15                 | QPSK       | 1#0                      | 22.38                                   | /    | 22.45 | 17.30        | /    | 17.37 |
|                    |            | 1#38                     | 22.35                                   | /    | 23.32 | 17.27        | /    | 18.24 |
|                    |            | 1#74                     | 23.30                                   | /    | 22.86 | 18.22        | /    | 17.78 |
|                    |            | 36#0                     | 22.98                                   | /    | 22.63 | 17.90        | /    | 17.55 |
|                    |            | 36#39                    | 23.35                                   | /    | 22.30 | 18.27        | /    | 17.22 |
|                    |            | 75#0                     | 23.25                                   | /    | 22.63 | 18.17        | /    | 17.55 |
|                    | 16QAM      | 1#0                      | 23.34                                   | /    | 22.39 | 18.26        | /    | 17.31 |
|                    |            | 1#38                     | 22.36                                   | /    | 23.42 | 17.28        | /    | 18.34 |
|                    |            | 1#74                     | 22.61                                   | /    | 22.42 | 17.53        | /    | 17.34 |
|                    |            | 36#0                     | 23.35                                   | /    | 23.04 | 18.27        | /    | 17.96 |
|                    |            | 36#39                    | 23.11                                   | /    | 22.66 | 18.03        | /    | 17.58 |
|                    |            | 75#0                     | 22.93                                   | /    | 23.34 | 17.85        | /    | 18.26 |

**LTE Band 26(824-849MHz)**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB<br>Offset | Conducted Average Output Power<br>(dBm) |       |       | ERP<br>(dBm) |       |       |
|--------------------|------------|--------------------------|-----------------------------------------|-------|-------|--------------|-------|-------|
|                    |            |                          | Low                                     | Mid   | High  | Low          | Mid   | High  |
| 1.4                | QPSK       | 1#0                      | 23.08                                   | 22.40 | 23.30 | 18.00        | 17.32 | 18.22 |
|                    |            | 1#3                      | 22.76                                   | 23.33 | 22.28 | 17.68        | 18.25 | 17.20 |
|                    |            | 1#5                      | 22.45                                   | 22.84 | 22.52 | 17.37        | 17.76 | 17.44 |
|                    |            | 3#0                      | 23.00                                   | 22.79 | 23.32 | 17.92        | 17.71 | 18.24 |
|                    |            | 3#3                      | 23.30                                   | 23.13 | 22.70 | 18.22        | 18.05 | 17.62 |
|                    |            | 6#0                      | 22.21                                   | 22.91 | 22.38 | 17.13        | 17.83 | 17.30 |
|                    | 16QAM      | 1#0                      | 23.43                                   | 22.86 | 22.28 | 18.35        | 17.78 | 17.20 |
|                    |            | 1#3                      | 23.22                                   | 22.56 | 23.06 | 18.14        | 17.48 | 17.98 |
|                    |            | 1#5                      | 23.29                                   | 23.03 | 22.37 | 18.21        | 17.95 | 17.29 |
|                    |            | 3#0                      | 22.48                                   | 22.30 | 22.30 | 17.40        | 17.22 | 17.22 |
|                    |            | 3#3                      | 23.03                                   | 22.18 | 22.49 | 17.95        | 17.10 | 17.41 |
|                    |            | 6#0                      | 22.42                                   | 22.49 | 23.14 | 17.34        | 17.41 | 18.06 |
| 3                  | QPSK       | 1#0                      | 22.67                                   | 22.35 | 23.44 | 17.59        | 17.27 | 18.36 |
|                    |            | 1#8                      | 23.16                                   | 22.98 | 23.34 | 18.08        | 17.90 | 18.26 |
|                    |            | 1#14                     | 22.35                                   | 22.41 | 23.22 | 17.27        | 17.33 | 18.14 |
|                    |            | 6#0                      | 22.31                                   | 22.82 | 23.17 | 17.23        | 17.74 | 18.09 |
|                    |            | 6#9                      | 22.23                                   | 23.38 | 22.68 | 17.15        | 18.30 | 17.60 |
|                    |            | 15#0                     | 23.04                                   | 22.67 | 23.24 | 17.96        | 17.59 | 18.16 |
|                    | 16QAM      | 1#0                      | 22.74                                   | 22.52 | 22.96 | 17.66        | 17.44 | 17.88 |
|                    |            | 1#8                      | 22.27                                   | 22.54 | 22.82 | 17.19        | 17.46 | 17.74 |
|                    |            | 1#14                     | 23.31                                   | 22.21 | 22.30 | 18.23        | 17.13 | 17.22 |
|                    |            | 6#0                      | 23.05                                   | 23.12 | 23.07 | 17.97        | 18.04 | 17.99 |
|                    |            | 6#9                      | 23.39                                   | 22.83 | 23.25 | 18.31        | 17.75 | 18.17 |
|                    |            | 15#0                     | 22.31                                   | 22.61 | 23.13 | 17.23        | 17.53 | 18.05 |
| 5                  | QPSK       | 1#0                      | 22.72                                   | 22.41 | 22.85 | 17.64        | 17.33 | 17.77 |
|                    |            | 1#13                     | 22.20                                   | 23.23 | 22.90 | 17.12        | 18.15 | 17.82 |
|                    |            | 1#24                     | 22.61                                   | 22.63 | 23.41 | 17.53        | 17.55 | 18.33 |
|                    |            | 15#0                     | 23.02                                   | 22.95 | 23.21 | 17.94        | 17.87 | 18.13 |
|                    |            | 15#10                    | 23.03                                   | 22.76 | 23.25 | 17.95        | 17.68 | 18.17 |
|                    |            | 25#0                     | 23.26                                   | 22.94 | 23.25 | 18.18        | 17.86 | 18.17 |
|                    | 16QAM      | 1#0                      | 22.72                                   | 22.66 | 23.12 | 17.64        | 17.58 | 18.04 |
|                    |            | 1#13                     | 23.41                                   | 22.44 | 23.38 | 18.33        | 17.36 | 18.30 |
|                    |            | 1#24                     | 22.33                                   | 22.28 | 23.18 | 17.25        | 17.20 | 18.10 |
|                    |            | 15#0                     | 22.16                                   | 22.93 | 22.74 | 17.08        | 17.85 | 17.66 |
|                    |            | 15#10                    | 22.85                                   | 23.15 | 22.58 | 17.77        | 18.07 | 17.50 |
|                    |            | 25#0                     | 23.04                                   | 22.71 | 22.38 | 17.96        | 17.63 | 17.30 |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB<br>Offset | Conducted Average Output Power<br>(dBm) |       |       | ERP<br>(dBm) |       |       |
|--------------------|------------|--------------------------|-----------------------------------------|-------|-------|--------------|-------|-------|
|                    |            |                          | Low                                     | Mid   | High  | Low          | Mid   | High  |
| 10                 | QPSK       | 1#0                      | 23.06                                   | 22.82 | 22.77 | 17.98        | 17.74 | 17.69 |
|                    |            | 1#25                     | 23.34                                   | 22.55 | 23.01 | 18.26        | 17.47 | 17.93 |
|                    |            | 1#49                     | 22.26                                   | 23.28 | 22.27 | 17.18        | 18.20 | 17.19 |
|                    |            | 25#0                     | 22.19                                   | 23.23 | 22.36 | 17.11        | 18.15 | 17.28 |
|                    |            | 25#25                    | 22.74                                   | 22.9  | 22.48 | 17.66        | 17.82 | 17.40 |
|                    |            | 50#0                     | 22.93                                   | 22.65 | 22.83 | 17.85        | 17.57 | 17.75 |
|                    | 16QAM      | 1#0                      | 22.30                                   | 22.99 | 23.34 | 17.22        | 17.91 | 18.26 |
|                    |            | 1#25                     | 22.86                                   | 22.75 | 23.22 | 17.78        | 17.67 | 18.14 |
|                    |            | 1#49                     | 22.36                                   | 23.27 | 22.64 | 17.28        | 18.19 | 17.56 |
|                    |            | 25#0                     | 22.28                                   | 22.89 | 23.09 | 17.20        | 17.81 | 18.01 |
|                    |            | 25#25                    | 22.66                                   | 23.09 | 22.66 | 17.58        | 18.01 | 17.58 |
|                    |            | 50#0                     | 22.96                                   | 23.13 | 22.35 | 17.88        | 18.05 | 17.27 |
| 15                 | QPSK       | 1#0                      | 23.23                                   | 23.37 | 22.44 | 18.15        | 18.29 | 17.36 |
|                    |            | 1#25                     | 23.30                                   | 22.3  | 23.31 | 18.22        | 17.22 | 18.23 |
|                    |            | 1#49                     | 23.44                                   | 22.81 | 22.16 | 18.36        | 17.73 | 17.08 |
|                    |            | 25#0                     | 23.34                                   | 22.54 | 22.19 | 18.26        | 17.46 | 17.11 |
|                    |            | 25#25                    | 22.71                                   | 22.98 | 23.27 | 17.63        | 17.90 | 18.19 |
|                    |            | 50#0                     | 23.33                                   | 22.3  | 22.56 | 18.25        | 17.22 | 17.48 |
|                    | 16QAM      | 1#0                      | 22.54                                   | 22.84 | 22.54 | 17.46        | 17.76 | 17.46 |
|                    |            | 1#25                     | 22.34                                   | 23.29 | 22.94 | 17.26        | 18.21 | 17.86 |
|                    |            | 1#49                     | 22.45                                   | 23.43 | 22.37 | 17.37        | 18.35 | 17.29 |
|                    |            | 25#0                     | 23.42                                   | 23.39 | 23.03 | 18.34        | 18.31 | 17.95 |
|                    |            | 25#25                    | 23.12                                   | 22.81 | 22.99 | 18.04        | 17.73 | 17.91 |
|                    |            | 50#0                     | 22.51                                   | 22.24 | 23.33 | 17.43        | 17.16 | 18.25 |

Note: ERP (dBm) = Conducted Power (dBm) + Antenna Gain (dBd)

Antenna Gain (dBd) = Antenna Gain (dBi)-2.15

Limit: ERP≤38.45dBm (Part 22H), ERP≤50dBm (Part 90S)

**LTE Band 41**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB<br>Offset | Conducted Average Output Power<br>(dBm) |       |       | EIRP<br>(dBm) |       |       |
|--------------------|------------|--------------------------|-----------------------------------------|-------|-------|---------------|-------|-------|
|                    |            |                          | Low                                     | Mid   | High  | Low           | Mid   | High  |
| 5                  | QPSK       | 1#0                      | 21.45                                   | 21.98 | 21.69 | 23.10         | 23.63 | 23.34 |
|                    |            | 1#13                     | 21.92                                   | 21.79 | 21.67 | 23.57         | 23.44 | 23.32 |
|                    |            | 1#24                     | 22.22                                   | 22.05 | 21.93 | 23.87         | 23.70 | 23.58 |
|                    |            | 15#0                     | 21.29                                   | 21.93 | 22.10 | 22.94         | 23.58 | 23.75 |
|                    |            | 15#10                    | 21.84                                   | 22.16 | 21.39 | 23.49         | 23.81 | 23.04 |
|                    |            | 25#0                     | 21.96                                   | 22.14 | 21.90 | 23.61         | 23.79 | 23.55 |
|                    | 16QAM      | 1#0                      | 21.64                                   | 22.14 | 22.19 | 23.29         | 23.79 | 23.84 |
|                    |            | 1#13                     | 21.88                                   | 21.80 | 21.70 | 23.53         | 23.45 | 23.35 |
|                    |            | 1#24                     | 21.45                                   | 21.90 | 21.82 | 23.10         | 23.55 | 23.47 |
|                    |            | 15#0                     | 21.27                                   | 21.47 | 21.67 | 22.92         | 23.12 | 23.32 |
|                    |            | 15#10                    | 21.47                                   | 21.36 | 21.61 | 23.12         | 23.01 | 23.26 |
|                    |            | 25#0                     | 22.14                                   | 21.95 | 21.59 | 23.79         | 23.60 | 23.24 |
| 10                 | QPSK       | 1#0                      | 21.64                                   | 21.43 | 21.64 | 23.29         | 23.08 | 23.29 |
|                    |            | 1#25                     | 22.15                                   | 21.99 | 21.68 | 23.80         | 23.64 | 23.33 |
|                    |            | 1#49                     | 22.20                                   | 21.70 | 22.09 | 23.85         | 23.35 | 23.74 |
|                    |            | 25#0                     | 21.28                                   | 22.14 | 21.47 | 22.93         | 23.79 | 23.12 |
|                    |            | 25#25                    | 22.08                                   | 22.05 | 22.04 | 23.73         | 23.70 | 23.69 |
|                    |            | 50#0                     | 21.85                                   | 21.55 | 21.39 | 23.50         | 23.20 | 23.04 |
|                    | 16QAM      | 1#0                      | 21.51                                   | 21.55 | 22.15 | 23.16         | 23.20 | 23.80 |
|                    |            | 1#25                     | 21.84                                   | 21.61 | 21.82 | 23.49         | 23.26 | 23.47 |
|                    |            | 1#49                     | 21.79                                   | 21.76 | 21.84 | 23.44         | 23.41 | 23.49 |
|                    |            | 25#0                     | 21.90                                   | 21.92 | 21.78 | 23.55         | 23.57 | 23.43 |
|                    |            | 25#25                    | 22.10                                   | 22.20 | 21.85 | 23.75         | 23.85 | 23.50 |
|                    |            | 50#0                     | 21.95                                   | 21.31 | 21.38 | 23.60         | 22.96 | 23.03 |
| 15                 | QPSK       | 1#0                      | 21.97                                   | 22.18 | 21.87 | 23.62         | 23.83 | 23.52 |
|                    |            | 1#38                     | 21.84                                   | 21.92 | 21.29 | 23.49         | 23.57 | 22.94 |
|                    |            | 1#74                     | 21.46                                   | 21.48 | 21.84 | 23.11         | 23.13 | 23.49 |
|                    |            | 36#0                     | 21.95                                   | 21.86 | 22.07 | 23.60         | 23.51 | 23.72 |
|                    |            | 36#39                    | 21.94                                   | 21.49 | 22.08 | 23.59         | 23.14 | 23.73 |
|                    |            | 75#0                     | 21.72                                   | 22.07 | 21.49 | 23.37         | 23.72 | 23.14 |
|                    | 16QAM      | 1#0                      | 21.40                                   | 21.71 | 21.31 | 23.05         | 23.36 | 22.96 |
|                    |            | 1#38                     | 21.84                                   | 21.80 | 21.89 | 23.49         | 23.45 | 23.54 |
|                    |            | 1#74                     | 21.40                                   | 21.54 | 21.44 | 23.05         | 23.19 | 23.09 |
|                    |            | 36#0                     | 21.55                                   | 22.24 | 21.28 | 23.20         | 23.89 | 22.93 |
|                    |            | 36#39                    | 21.44                                   | 21.27 | 21.69 | 23.09         | 22.92 | 23.34 |
|                    |            | 75#0                     | 21.75                                   | 22.07 | 22.02 | 23.40         | 23.72 | 23.67 |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB<br>Offset | Conducted Average Output Power<br>(dBm) |       |       | EIRP<br>(dBm) |       |       |
|--------------------|------------|--------------------------|-----------------------------------------|-------|-------|---------------|-------|-------|
|                    |            |                          | Low                                     | Mid   | High  | Low           | Mid   | High  |
| 20                 | QPSK       | 1#0                      | 21.50                                   | 21.30 | 22.18 | 23.15         | 22.95 | 23.83 |
|                    |            | 1#50                     | 21.36                                   | 21.57 | 21.50 | 23.01         | 23.22 | 23.15 |
|                    |            | 1#99                     | 22.21                                   | 22.07 | 21.32 | 23.86         | 23.72 | 22.97 |
|                    |            | 50#0                     | 21.97                                   | 21.46 | 21.47 | 23.62         | 23.11 | 23.12 |
|                    |            | 50#50                    | 21.55                                   | 21.95 | 21.63 | 23.20         | 23.60 | 23.28 |
|                    |            | 100#0                    | 22.04                                   | 22.04 | 22.08 | 23.69         | 23.69 | 23.73 |
|                    | 16QAM      | 1#0                      | 21.29                                   | 21.86 | 22.18 | 22.94         | 23.51 | 23.83 |
|                    |            | 1#50                     | 21.81                                   | 21.46 | 22.15 | 23.46         | 23.11 | 23.80 |
|                    |            | 1#99                     | 21.59                                   | 21.91 | 21.43 | 23.24         | 23.56 | 23.08 |
|                    |            | 50#0                     | 21.53                                   | 21.75 | 21.81 | 23.18         | 23.40 | 23.46 |
|                    |            | 50#50                    | 21.80                                   | 22.03 | 21.96 | 23.45         | 23.68 | 23.61 |
|                    |            | 100#0                    | 21.57                                   | 22.26 | 21.60 | 23.22         | 23.91 | 23.25 |

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi)  
Limit: EIRP≤33dBm

**LTE Band 66**

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB<br>Offset | Conducted Average Output Power<br>(dBm) |       |       | EIRP<br>(dBm) |       |       |
|--------------------|------------|--------------------------|-----------------------------------------|-------|-------|---------------|-------|-------|
|                    |            |                          | Low                                     | Mid   | High  | Low           | Mid   | High  |
| 1.4                | QPSK       | 1#0                      | 21.66                                   | 21.55 | 21.96 | 20.65         | 20.54 | 20.95 |
|                    |            | 1#3                      | 22.21                                   | 22.21 | 21.26 | 21.20         | 21.20 | 20.25 |
|                    |            | 1#5                      | 21.84                                   | 21.99 | 21.45 | 20.83         | 20.98 | 20.44 |
|                    |            | 3#0                      | 21.90                                   | 21.94 | 21.71 | 20.89         | 20.93 | 20.70 |
|                    |            | 3#3                      | 22.23                                   | 22.05 | 21.93 | 21.22         | 21.04 | 20.92 |
|                    |            | 6#0                      | 21.76                                   | 22.18 | 21.62 | 20.75         | 21.17 | 20.61 |
|                    | 16QAM      | 1#0                      | 21.66                                   | 22.23 | 21.36 | 20.65         | 21.22 | 20.35 |
|                    |            | 1#3                      | 22.16                                   | 21.28 | 21.41 | 21.15         | 20.27 | 20.40 |
|                    |            | 1#5                      | 22.00                                   | 21.53 | 21.33 | 20.99         | 20.52 | 20.32 |
|                    |            | 3#0                      | 21.92                                   | 21.48 | 21.47 | 20.91         | 20.47 | 20.46 |
|                    |            | 3#3                      | 22.26                                   | 22.17 | 21.94 | 21.25         | 21.16 | 20.93 |
|                    |            | 6#0                      | 22.12                                   | 22.04 | 21.76 | 21.11         | 21.03 | 20.75 |
| 3                  | QPSK       | 1#0                      | 21.88                                   | 21.62 | 21.31 | 20.87         | 20.61 | 20.30 |
|                    |            | 1#8                      | 22.14                                   | 21.52 | 21.96 | 21.13         | 20.51 | 20.95 |
|                    |            | 1#14                     | 21.62                                   | 21.92 | 22.03 | 20.61         | 20.91 | 21.02 |
|                    |            | 6#0                      | 21.92                                   | 21.92 | 21.62 | 20.91         | 20.91 | 20.61 |
|                    |            | 6#9                      | 22.07                                   | 22.11 | 21.64 | 21.06         | 21.10 | 20.63 |
|                    |            | 15#0                     | 21.93                                   | 22.05 | 22.21 | 20.92         | 21.04 | 21.20 |
|                    | 16QAM      | 1#0                      | 21.71                                   | 21.75 | 22.11 | 20.70         | 20.74 | 21.10 |
|                    |            | 1#8                      | 21.77                                   | 21.48 | 21.81 | 20.76         | 20.47 | 20.80 |
|                    |            | 1#14                     | 22.01                                   | 21.59 | 21.86 | 21.00         | 20.58 | 20.85 |
|                    |            | 6#0                      | 21.67                                   | 22.00 | 21.33 | 20.66         | 20.99 | 20.32 |
|                    |            | 6#9                      | 21.89                                   | 22.14 | 21.54 | 20.88         | 21.13 | 20.53 |
|                    |            | 15#0                     | 21.48                                   | 22.06 | 21.96 | 20.47         | 21.05 | 20.95 |
| 5                  | QPSK       | 1#0                      | 22.20                                   | 21.64 | 21.90 | 21.19         | 20.63 | 20.89 |
|                    |            | 1#13                     | 22.09                                   | 21.31 | 22.21 | 21.08         | 20.30 | 21.20 |
|                    |            | 1#24                     | 21.37                                   | 21.50 | 21.48 | 20.36         | 20.49 | 20.47 |
|                    |            | 15#0                     | 21.84                                   | 22.16 | 21.95 | 20.83         | 21.15 | 20.94 |
|                    |            | 15#10                    | 21.52                                   | 21.62 | 21.36 | 20.51         | 20.61 | 20.35 |
|                    |            | 25#0                     | 22.03                                   | 21.49 | 21.99 | 21.02         | 20.48 | 20.98 |
|                    | 16QAM      | 1#0                      | 21.60                                   | 21.61 | 21.81 | 20.59         | 20.60 | 20.80 |
|                    |            | 1#13                     | 22.18                                   | 21.68 | 21.91 | 21.17         | 20.67 | 20.90 |
|                    |            | 1#24                     | 21.55                                   | 21.64 | 22.19 | 20.54         | 20.63 | 21.18 |
|                    |            | 15#0                     | 21.49                                   | 22.05 | 22.12 | 20.48         | 21.04 | 21.11 |
|                    |            | 15#10                    | 21.73                                   | 21.26 | 22.23 | 20.72         | 20.25 | 21.22 |
|                    |            | 25#0                     | 21.98                                   | 21.37 | 21.57 | 20.97         | 20.36 | 20.56 |

| Bandwidth<br>(MHz) | Modulation | RB size/<br>RB<br>Offset | Conducted Average Output Power<br>(dBm) |       |       | EIRP<br>(dBm) |       |       |
|--------------------|------------|--------------------------|-----------------------------------------|-------|-------|---------------|-------|-------|
|                    |            |                          | Low                                     | Mid   | High  | Low           | Mid   | High  |
| 10                 | QPSK       | 1#0                      | 21.76                                   | 21.78 | 21.36 | 20.75         | 20.77 | 20.35 |
|                    |            | 1#25                     | 21.29                                   | 21.65 | 22.08 | 20.28         | 20.64 | 21.07 |
|                    |            | 1#49                     | 21.91                                   | 22.21 | 21.91 | 20.90         | 21.20 | 20.90 |
|                    |            | 25#0                     | 21.44                                   | 21.34 | 21.67 | 20.43         | 20.33 | 20.66 |
|                    |            | 25#25                    | 21.51                                   | 21.56 | 21.96 | 20.50         | 20.55 | 20.95 |
|                    |            | 50#0                     | 21.34                                   | 22.25 | 21.40 | 20.33         | 21.24 | 20.39 |
|                    | 16QAM      | 1#0                      | 22.11                                   | 22.07 | 21.85 | 21.10         | 21.06 | 20.84 |
|                    |            | 1#25                     | 21.86                                   | 21.75 | 21.67 | 20.85         | 20.74 | 20.66 |
|                    |            | 1#49                     | 21.86                                   | 21.43 | 21.54 | 20.85         | 20.42 | 20.53 |
|                    |            | 25#0                     | 21.84                                   | 21.30 | 22.01 | 20.83         | 20.29 | 21.00 |
|                    |            | 25#25                    | 21.98                                   | 21.72 | 21.48 | 20.97         | 20.71 | 20.47 |
|                    |            | 50#0                     | 22.12                                   | 22.16 | 21.39 | 21.11         | 21.15 | 20.38 |
| 15                 | QPSK       | 1#0                      | 21.89                                   | 21.68 | 21.96 | 20.88         | 20.67 | 20.95 |
|                    |            | 1#38                     | 21.60                                   | 21.74 | 21.51 | 20.59         | 20.73 | 20.50 |
|                    |            | 1#74                     | 22.16                                   | 21.34 | 21.67 | 21.15         | 20.33 | 20.66 |
|                    |            | 36#0                     | 21.77                                   | 21.87 | 21.39 | 20.76         | 20.86 | 20.38 |
|                    |            | 36#39                    | 21.47                                   | 22.04 | 21.61 | 20.46         | 21.03 | 20.60 |
|                    |            | 75#0                     | 22.21                                   | 21.66 | 21.95 | 21.20         | 20.65 | 20.94 |
|                    | 16QAM      | 1#0                      | 22.25                                   | 21.30 | 21.29 | 21.24         | 20.29 | 20.28 |
|                    |            | 1#38                     | 21.96                                   | 22.11 | 21.91 | 20.95         | 21.10 | 20.90 |
|                    |            | 1#74                     | 22.23                                   | 22.09 | 21.81 | 21.22         | 21.08 | 20.80 |
|                    |            | 36#0                     | 22.03                                   | 22.06 | 21.73 | 21.02         | 21.05 | 20.72 |
|                    |            | 36#39                    | 21.99                                   | 22.09 | 22.13 | 20.98         | 21.08 | 21.12 |
|                    |            | 75#0                     | 22.23                                   | 22.09 | 21.45 | 21.22         | 21.08 | 20.44 |
| 20                 | QPSK       | 1#0                      | 21.39                                   | 21.97 | 21.29 | 20.38         | 20.96 | 20.28 |
|                    |            | 1#50                     | 21.93                                   | 21.95 | 21.64 | 20.92         | 20.94 | 20.63 |
|                    |            | 1#99                     | 21.44                                   | 21.49 | 21.53 | 20.43         | 20.48 | 20.52 |
|                    |            | 50#0                     | 21.86                                   | 22.25 | 21.55 | 20.85         | 21.24 | 20.54 |
|                    |            | 50#50                    | 21.32                                   | 21.66 | 22.22 | 20.31         | 20.65 | 21.21 |
|                    |            | 100#0                    | 22.07                                   | 21.48 | 21.29 | 21.06         | 20.47 | 20.28 |
|                    | 16QAM      | 1#0                      | 21.44                                   | 21.56 | 21.71 | 20.43         | 20.55 | 20.70 |
|                    |            | 1#50                     | 22.22                                   | 21.49 | 21.27 | 21.21         | 20.48 | 20.26 |
|                    |            | 1#99                     | 22.03                                   | 22.05 | 21.70 | 21.02         | 21.04 | 20.69 |
|                    |            | 50#0                     | 21.39                                   | 21.59 | 21.46 | 20.38         | 20.58 | 20.45 |
|                    |            | 50#50                    | 22.02                                   | 21.60 | 21.46 | 21.01         | 20.59 | 20.45 |
|                    |            | 100#0                    | 21.51                                   | 21.50 | 22.14 | 20.50         | 20.49 | 21.13 |

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi)  
Limit: EIRP≤33dBm

**Peak-to-average ratio (PAR):****GPRS/EGPRS 850 Band**

| Mode       | Channel | PAR (dB) | Limit (dB) |
|------------|---------|----------|------------|
| GPRS 1slot | Low     | 6.45     | ≤ 13       |
|            | Middle  | 6.32     | ≤ 13       |
|            | High    | 7.54     | ≤ 13       |

| Mode        | Channel | PAR (dB) | Limit (dB) |
|-------------|---------|----------|------------|
| EGPRS 1slot | Low     | 5.68     | ≤ 13       |
|             | Middle  | 6.96     | ≤ 13       |
|             | High    | 6.84     | ≤ 13       |

**WCDMA Band V**

| Mode          | Channel | PAR (dB) | Limit (dB) |
|---------------|---------|----------|------------|
| WCDMA (RMC)   | Low     | 3.41     | ≤ 13       |
|               | Middle  | 3.85     | ≤ 13       |
|               | High    | 3.43     | ≤ 13       |
| WCDMA (HSDPA) | Low     | 3.65     | ≤ 13       |
|               | Middle  | 6.86     | ≤ 13       |
|               | High    | 6.56     | ≤ 13       |
| WCDMA (HSUPA) | Low     | 5.87     | ≤ 13       |
|               | Middle  | 6.45     | ≤ 13       |
|               | High    | 6.21     | ≤ 13       |
| WCDMA (HSPA+) | Low     | 6.33     | ≤ 13       |
|               | Middle  | 4.95     | ≤ 13       |
|               | High    | 5.03     | ≤ 13       |

**WCDMA Band IV**

| Mode          | Channel | PAR (dB) | Limit (dB) |
|---------------|---------|----------|------------|
| WCDMA (RMC)   | Low     | 4.65     | ≤ 13       |
|               | Middle  | 3.85     | ≤ 13       |
|               | High    | 3.41     | ≤ 13       |
| WCDMA (HSDPA) | Low     | 4.02     | ≤ 13       |
|               | Middle  | 5.32     | ≤ 13       |
|               | High    | 5.15     | ≤ 13       |
| WCDMA (HSUPA) | Low     | 5.63     | ≤ 13       |
|               | Middle  | 5.39     | ≤ 13       |
|               | High    | 5.8      | ≤ 13       |
| WCDMA (HSPA+) | Low     | 5.25     | ≤ 13       |
|               | Middle  | 5.12     | ≤ 13       |
|               | High    | 4.68     | ≤ 13       |

**PCS 1900**

| Mode       | Channel | PAR (dB) | Limit (dB) |
|------------|---------|----------|------------|
| GPRS 1slot | Low     | 6.53     | ≤ 13       |
|            | Middle  | 6.74     | ≤ 13       |
|            | High    | 8.45     | ≤ 13       |

| Mode        | Channel | PAR (dB) | Limit (dB) |
|-------------|---------|----------|------------|
| EGPRS 1slot | Low     | 6.96     | ≤ 13       |
|             | Middle  | 5.41     | ≤ 13       |
|             | High    | 4.84     | ≤ 13       |

**WCDMA Band II**

| Mode          | Channel | PAR (dB) | Limit (dB) |
|---------------|---------|----------|------------|
| WCDMA (RMC)   | Low     | 3.56     | ≤ 13       |
|               | Middle  | 3.91     | ≤ 13       |
|               | High    | 3.53     | ≤ 13       |
| WCDMA (HSDPA) | Low     | 4.12     | ≤ 13       |
|               | Middle  | 5.96     | ≤ 13       |
|               | High    | 5.54     | ≤ 13       |
| WCDMA (HSUPA) | Low     | 5.85     | ≤ 13       |
|               | Middle  | 5.36     | ≤ 13       |
|               | High    | 5.41     | ≤ 13       |
| WCDMA (HSPA+) | Low     | 5.63     | ≤ 13       |
|               | Middle  | 5.15     | ≤ 13       |
|               | High    | 5.02     | ≤ 13       |

**LTE Band 2**

| Test Modulation |        | Test Bandwidth | Low Channel (dB) | Middle Channel (dB) | High Channel (dB) | Limit (dB) |
|-----------------|--------|----------------|------------------|---------------------|-------------------|------------|
| QPSK            | 1 RB   | 20M            | 6.09             | 6.76                | 5.59              | ≤ 13       |
|                 | 100 RB |                | 7.13             | 6.39                | 5.55              | ≤ 13       |
| 16-QAM          | 1 RB   | 20M            | 6.23             | 6.64                | 6.26              | ≤ 13       |
|                 | 100 RB |                | 6.83             | 5.45                | 7.22              | ≤ 13       |

**LTE Band 4**

| Test Modulation |        | Test Bandwidth | Low Channel (dB) | Middle Channel (dB) | High Channel (dB) | Limit(dB) |
|-----------------|--------|----------------|------------------|---------------------|-------------------|-----------|
| QPSK            | 1 RB   | 20M            | 5.26             | 6.55                | 6.45              | ≤ 13      |
|                 | 100 RB |                | 6.12             | 6.9                 | 5.33              | ≤ 13      |
| 16-QAM          | 1 RB   | 20M            | 5.37             | 5.36                | 5.94              | ≤ 13      |
|                 | 100 RB |                | 5.4              | 7.1                 | 5.35              | ≤ 13      |

**LTE Band 5**

| Test Modulation |       | Test Bandwidth | Low Channel (dB) | Middle Channel (dB) | High Channel (dB) | Limit(dB) |
|-----------------|-------|----------------|------------------|---------------------|-------------------|-----------|
| QPSK            | 1 RB  | 10M            | 7.03             | 5.64                | 5.96              | ≤ 13      |
|                 | 50 RB |                | 7.2              | 6.24                | 5.36              | ≤ 13      |
| 16-QAM          | 1 RB  | 10M            | 5.36             | 6.78                | 5.79              | ≤ 13      |
|                 | 50 RB |                | 7.06             | 5.87                | 7.08              | ≤ 13      |

**LTE Band 7**

| Test Modulation |        | Test Bandwidth | Low Channel (dB) | Middle Channel (dB) | High Channel (dB) | Limit(dB) |
|-----------------|--------|----------------|------------------|---------------------|-------------------|-----------|
| QPSK            | 1 RB   | 20M            | 6.7              | 7.24                | 6.51              | ≤ 13      |
|                 | 100 RB |                | 6.51             | 7.02                | 7.19              | ≤ 13      |
| 16-QAM          | 1 RB   | 20M            | 5.57             | 5.87                | 6.62              | ≤ 13      |
|                 | 100 RB |                | 6.3              | 6.37                | 6.03              | ≤ 13      |

**LTE Band 12**

| Test Modulation |       | Test Bandwidth | Low Channel (dB) | Middle Channel (dB) | High Channel (dB) | Limit(dB) |
|-----------------|-------|----------------|------------------|---------------------|-------------------|-----------|
| QPSK            | 1 RB  | 10M            | 6.99             | 6.53                | 5.74              | ≤ 13      |
|                 | 50 RB |                | 6.01             | 5.78                | 6.84              | ≤ 13      |
| 16-QAM          | 1 RB  | 10M            | 6.38             | 5.86                | 6.06              | ≤ 13      |
|                 | 50 RB |                | 5.37             | 5.39                | 5.74              | ≤ 13      |

**LTE Band 17**

| Test Modulation |       | Test Bandwidth | Low Channel (dB) | Middle Channel (dB) | High Channel (dB) | Limit(dB) |
|-----------------|-------|----------------|------------------|---------------------|-------------------|-----------|
| QPSK            | 1 RB  | 10M            | 6.7              | 7.01                | 6.56              | ≤ 13      |
|                 | 50 RB |                | 6.31             | 6.25                | 6.4               | ≤ 13      |
| 16-QAM          | 1 RB  | 10M            | 6.56             | 6.38                | 6.21              | ≤ 13      |
|                 | 50 RB |                | 6.42             | 6.15                | 6.36              | ≤ 13      |

**LTE Band 25**

| Test Modulation |        | Test Bandwidth | Low Channel (dB) | Middle Channel (dB) | High Channel (dB) | Limit(dB) |
|-----------------|--------|----------------|------------------|---------------------|-------------------|-----------|
| QPSK            | 1 RB   | 20M            | 5.45             | 5.84                | 5.35              | ≤ 13      |
|                 | 100 RB |                | 5.41             | 5.63                | 5.94              | ≤ 13      |
| 16-QAM          | 1 RB   | 20M            | 5.24             | 5.71                | 5.51              | ≤ 13      |
|                 | 100 RB |                | 5.53             | 5.68                | 5.36              | ≤ 13      |

**LTE Band 26(814-824 MHz)**

| Test Modulation |       | Test Bandwidth | Low Channel (dB) | Cross Channel (dB) | Limit(dB) |
|-----------------|-------|----------------|------------------|--------------------|-----------|
| QPSK            | 1 RB  | 15M            | 5.97             | 6.28               | ≤ 13      |
|                 | 75 RB |                | 6.39             | 5.61               | ≤ 13      |
| 16-QAM          | 1 RB  | 15M            | 6.18             | 5.31               | ≤ 13      |
|                 | 75 RB |                | 6.21             | 5.38               | ≤ 13      |

**LTE Band 26(824-849 MHz)**

| Test Modulation |       | Test Bandwidth | Low Channel (dB) | Middle Channel (dB) | High Channel (dB) | Limit(dB) |
|-----------------|-------|----------------|------------------|---------------------|-------------------|-----------|
| QPSK            | 1 RB  | 15M            | 5.45             | 5.21                | 5.95              | ≤ 13      |
|                 | 75 RB |                | 6.21             | 5.48                | 5.96              | ≤ 13      |
| 16-QAM          | 1 RB  | 15M            | 6.11             | 6.21                | 5.25              | ≤ 13      |
|                 | 75 RB |                | 5.45             | 5.63                | 5.74              | ≤ 13      |

**LTE Band 41**

| Test Modulation |        | Test Bandwidth | Low Channel (dB) | Middle Channel (dB) | High Channel (dB) | Limit(dB) |
|-----------------|--------|----------------|------------------|---------------------|-------------------|-----------|
| QPSK            | 1 RB   | 20M            | 6.37             | 6.45                | 7.06              | ≤ 13      |
|                 | 100 RB |                | 5.41             | 7                   | 6.16              | ≤ 13      |
| 16-QAM          | 1 RB   | 20M            | 5.51             | 5.35                | 6.11              | ≤ 13      |
|                 | 100 RB |                | 5.32             | 6.33                | 5.85              | ≤ 13      |

**LTE Band 66**

| Test Modulation |        | Test Bandwidth | Low Channel (dB) | Middle Channel (dB) | High Channel (dB) | Limit(dB) |
|-----------------|--------|----------------|------------------|---------------------|-------------------|-----------|
| QPSK            | 1 RB   | 20M            | 5.71             | 5.54                | 5.6               | ≤ 13      |
|                 | 100 RB |                | 6.81             | 7.14                | 6.09              | ≤ 13      |
| 16-QAM          | 1 RB   | 20M            | 6.48             | 5.91                | 5.87              | ≤ 13      |
|                 | 100 RB |                | 5.37             | 6.4                 | 6.69              | ≤ 13      |

**OCCUPIED BANDWIDTH****Environmental Conditions & Test Information**

|                           |                          |
|---------------------------|--------------------------|
| <b>Test Date:</b>         | 2025-03-26 to 2025-05-27 |
| <b>Temperature:</b>       | 21.2-24.5 °C             |
| <b>Relative Humidity:</b> | 48-53 %                  |
| <b>ATM Pressure:</b>      | 102.7-103.2 kPa          |
| <b>Test Result:</b>       | Pass                     |
| <b>Test Engineer:</b>     | Neil Zhou                |

*EUT operation mode: Transmitting*

*LTE: Please check the APPENDIX B\_Occupied bandwidth for detail.*

**GPRS 850 Band**

| <b>Mode</b>  | <b>Frequency (MHz)</b> | <b>99% Occupied Bandwidth (kHz)</b> | <b>26 dB Emission Bandwidth (kHz)</b> |
|--------------|------------------------|-------------------------------------|---------------------------------------|
| GPRS (GMSK)  | 824.2                  | 243.13                              | 319.80                                |
|              | 836.6                  | 241.68                              | 321.30                                |
|              | 848.8                  | 243.13                              | 319.80                                |
| EGPRS (8PSK) | 824.2                  | 237.34                              | 316.90                                |
|              | 836.6                  | 235.89                              | 316.90                                |
|              | 848.8                  | 237.34                              | 316.90                                |

**WCDMA Band V**

| <b>Mode</b>   | <b>Frequency (MHz)</b> | <b>99% Occupied Bandwidth (MHz)</b> | <b>26 dB Emission Bandwidth (MHz)</b> |
|---------------|------------------------|-------------------------------------|---------------------------------------|
| WCDMA (RMC)   | 826.4                  | 4.11                                | 4.72                                  |
|               | 836.6                  | 4.11                                | 4.72                                  |
|               | 846.6                  | 4.10                                | 4.70                                  |
| WCDMA (HSDPA) | 826.4                  | 4.11                                | 4.72                                  |
|               | 836.6                  | 4.11                                | 4.72                                  |
|               | 846.6                  | 4.10                                | 4.72                                  |
| WCDMA (HSUPA) | 826.4                  | 4.11                                | 4.73                                  |
|               | 836.6                  | 4.11                                | 4.72                                  |
|               | 846.6                  | 4.10                                | 4.70                                  |
| WCDMA (HSPA+) | 826.4                  | 4.11                                | 4.73                                  |
|               | 836.6                  | 4.11                                | 4.73                                  |
|               | 846.6                  | 4.10                                | 4.72                                  |

**PCS 1900**

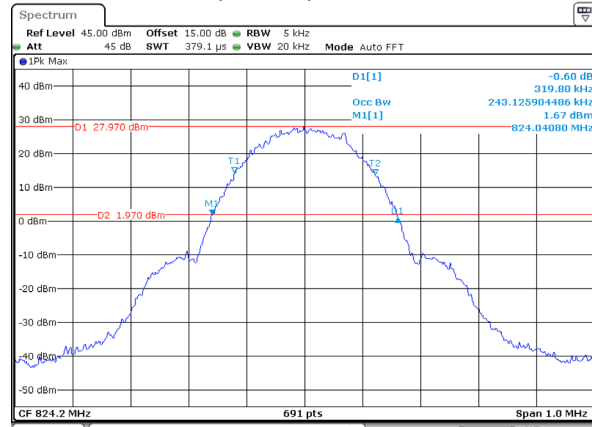
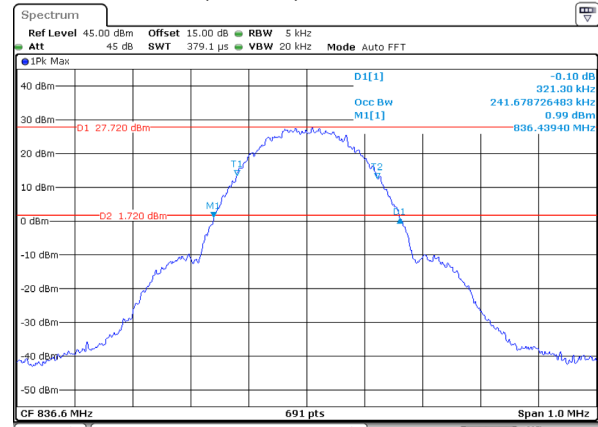
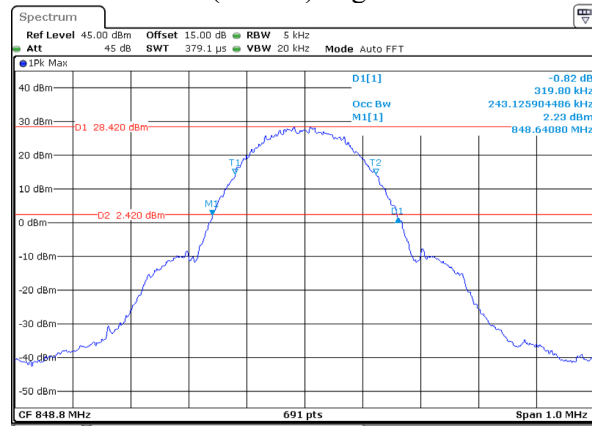
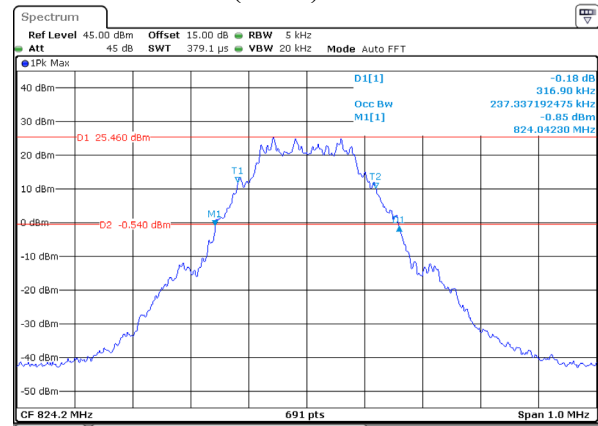
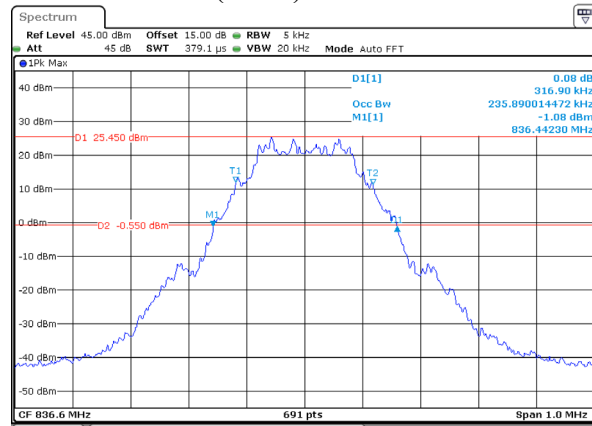
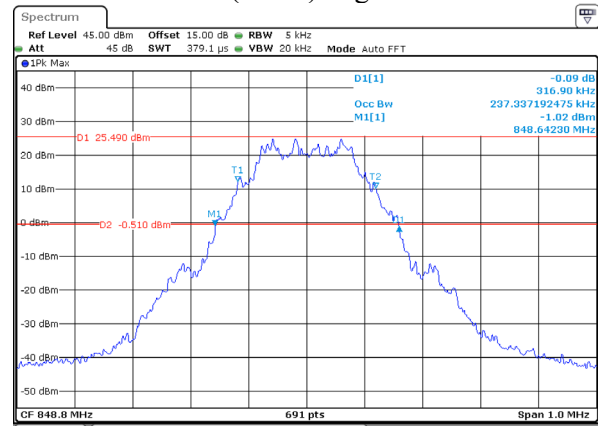
| <b>Mode</b>  | <b>Frequency (MHz)</b> | <b>99% Occupied Bandwidth (kHz)</b> | <b>26 dB Emission Bandwidth (kHz)</b> |
|--------------|------------------------|-------------------------------------|---------------------------------------|
| GPRS (GMSK)  | 1850.2                 | 246.02                              | 321.30                                |
|              | 1880                   | 243.13                              | 325.60                                |
|              | 1909.8                 | 244.57                              | 324.20                                |
| EGPRS (8PSK) | 1850.2                 | 238.78                              | 317.40                                |
|              | 1880                   | 237.34                              | 316.90                                |
|              | 1909.8                 | 238.78                              | 316.90                                |

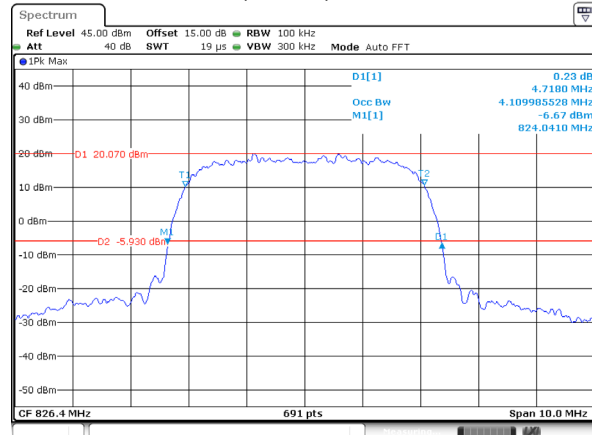
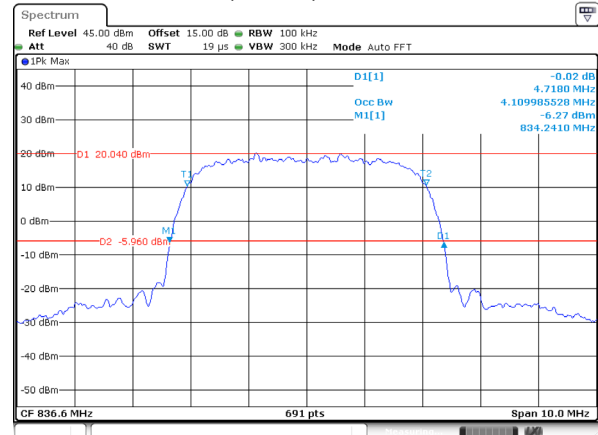
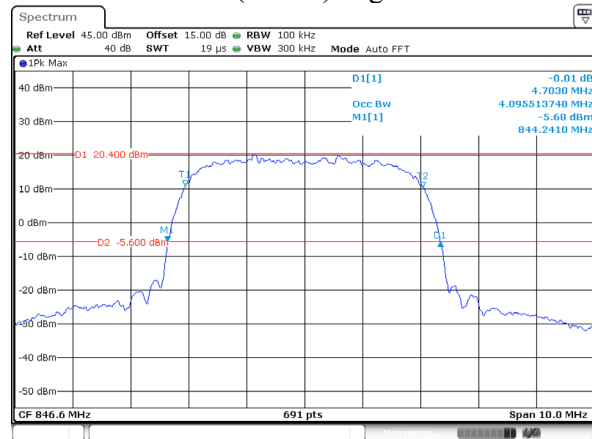
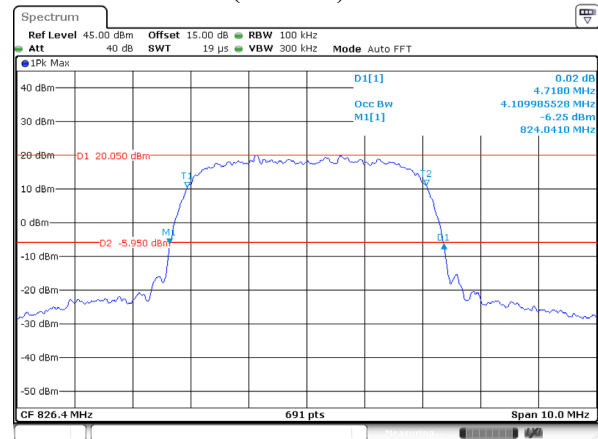
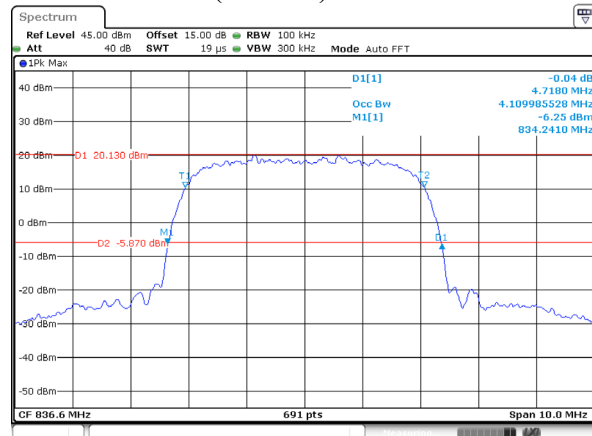
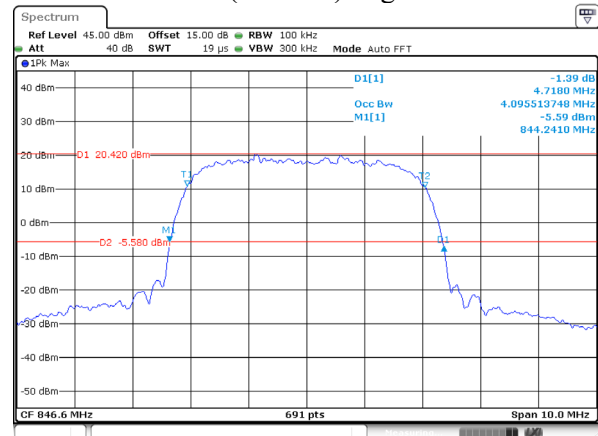
**WCDMA Band II**

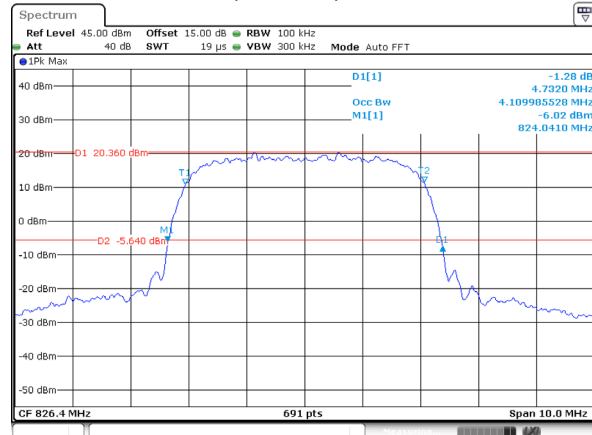
| <b>Mode</b>    | <b>Frequency (MHz)</b> | <b>99% Occupied Bandwidth (MHz)</b> | <b>26 dB Emission Bandwidth (MHz)</b> |
|----------------|------------------------|-------------------------------------|---------------------------------------|
| WCDMA (Rel 99) | 1852.4                 | 4.11                                | 4.76                                  |
|                | 1880                   | 4.11                                | 4.76                                  |
|                | 1907.6                 | 4.12                                | 4.76                                  |
| WCDMA (HSDPA)  | 1852.4                 | 4.11                                | 4.76                                  |
|                | 1880                   | 4.11                                | 4.76                                  |
|                | 1907.6                 | 4.12                                | 4.76                                  |
| WCDMA (HSUPA)  | 1852.4                 | 4.12                                | 4.76                                  |
|                | 1880                   | 4.11                                | 4.76                                  |
|                | 1907.6                 | 4.12                                | 4.78                                  |
| WCDMA (HSPA+)  | 1852.4                 | 4.12                                | 4.76                                  |
|                | 1880                   | 4.11                                | 4.73                                  |
|                | 1907.6                 | 4.12                                | 4.78                                  |

**WCDMA Band IV**

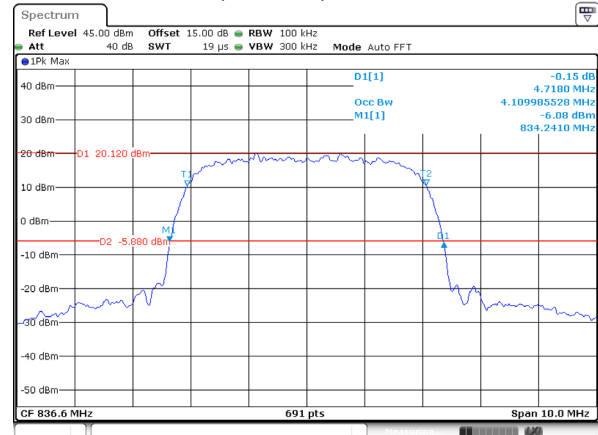
| <b>Mode</b>    | <b>Frequency (MHz)</b> | <b>99% Occupied Bandwidth (MHz)</b> | <b>26 dB Emission Bandwidth (MHz)</b> |
|----------------|------------------------|-------------------------------------|---------------------------------------|
| WCDMA (Rel 99) | 1712.4                 | 4.11                                | 4.73                                  |
|                | 1732.6                 | 4.11                                | 4.73                                  |
|                | 1752.6                 | 4.11                                | 4.73                                  |
| WCDMA (HSDPA)  | 1712.4                 | 4.11                                | 4.73                                  |
|                | 1732.6                 | 4.11                                | 4.73                                  |
|                | 1752.6                 | 4.11                                | 4.73                                  |
| WCDMA (HSUPA)  | 1712.4                 | 4.11                                | 4.73                                  |
|                | 1732.6                 | 4.11                                | 4.73                                  |
|                | 1752.6                 | 4.11                                | 4.73                                  |
| WCDMA (HSPA+)  | 1712.4                 | 4.11                                | 4.73                                  |
|                | 1732.6                 | 4.11                                | 4.73                                  |
|                | 1752.6                 | 4.11                                | 4.75                                  |

**GPRS 850 Band**99% Occupied & 26 dB Emissions Bandwidth for  
GPRS (GMSK) Low channelProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 26 MAY 2025 09:32:1299% Occupied & 26 dB Emissions Bandwidth for  
GPRS (GMSK) Middle channelProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 26 MAY 2025 09:29:3299% Occupied & 26 dB Emissions Bandwidth for  
GPRS (GMSK) High channelProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 26 MAY 2025 09:28:5599% Occupied & 26 dB Emissions Bandwidth for  
EGPRS (8PSK) Low channelProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 26 MAY 2025 09:47:3499% Occupied & 26 dB Emissions Bandwidth for  
EGPRS (8PSK) Middle channelProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 26 MAY 2025 09:50:0399% Occupied & 26 dB Emissions Bandwidth for  
EGPRS (8PSK) High channelProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 26 MAY 2025 09:51:39

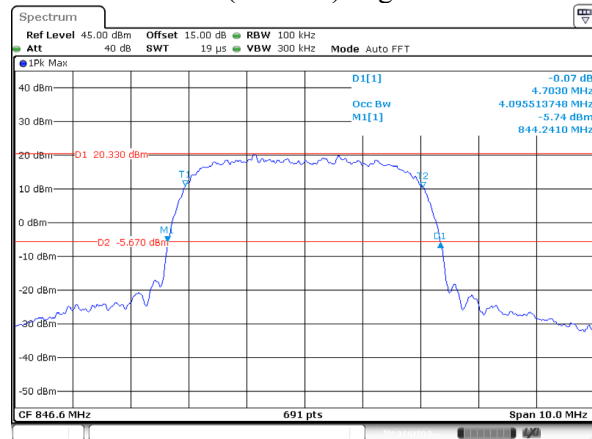
**WCDMA Band V****99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) Low channel**ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 28 MAY 2025 11:44:48**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) Middle channel**ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 28 MAY 2025 11:48:00**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) High channel**ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 28 MAY 2025 11:51:55**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) Low channel**ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 28 MAY 2025 11:45:52**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) Middle channel**ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 28 MAY 2025 11:48:32**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) High channel**ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 28 MAY 2025 11:52:31

99% Occupied & 26 dB Emissions Bandwidth for  
WCDMA (HSUPA) Low channel

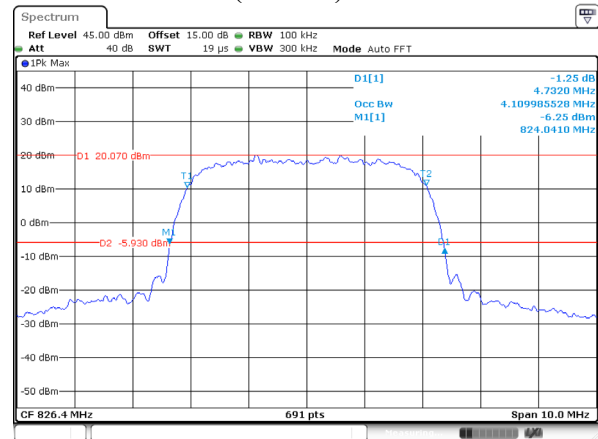
ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 27 MAY 2025 11:28:11

99% Occupied & 26 dB Emissions Bandwidth for  
WCDMA (HSUPA) Middle channel

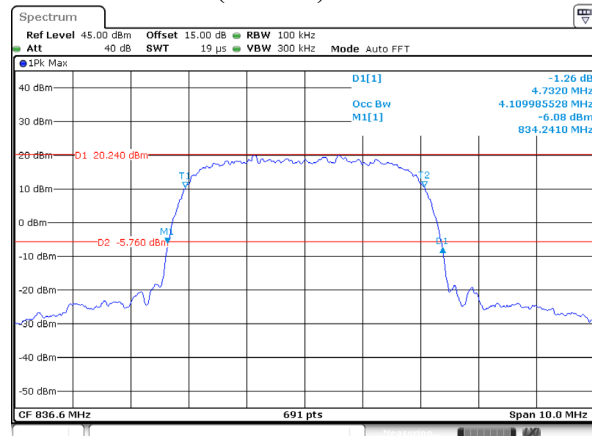
ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 26 MAY 2025 11:49:46

99% Occupied & 26 dB Emissions Bandwidth for  
WCDMA (HSUPA) High channel

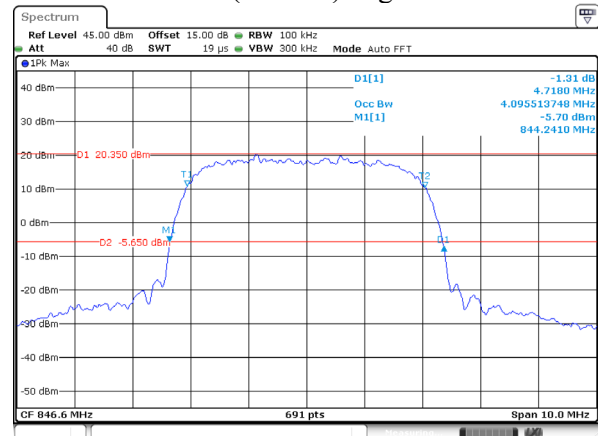
ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 26 MAY 2025 11:53:14

99% Occupied & 26 dB Emissions Bandwidth for  
WCDMA (HSPA+) Low channel

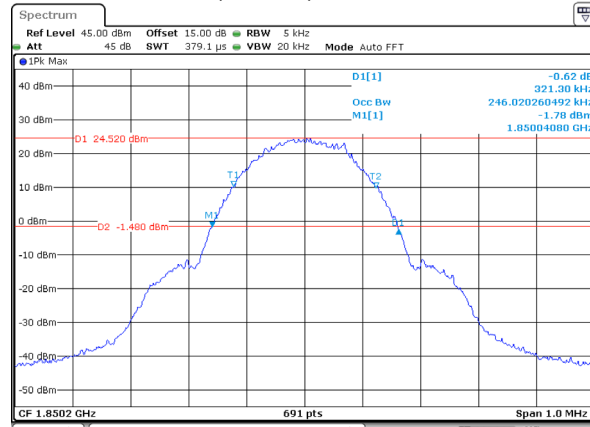
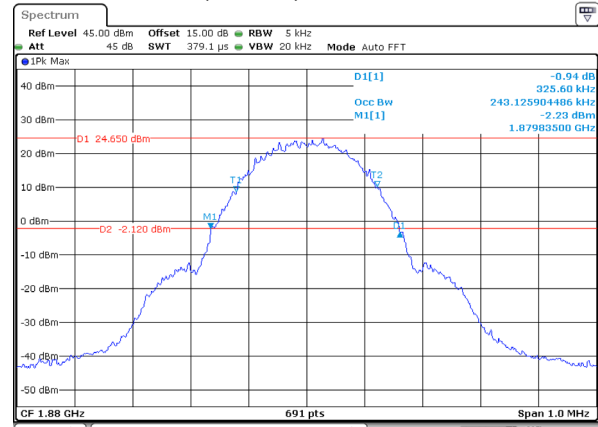
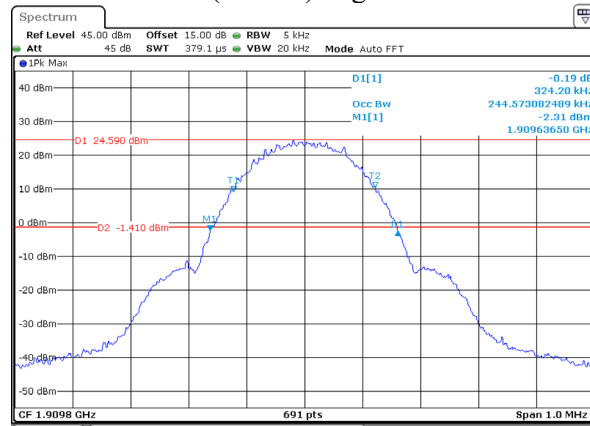
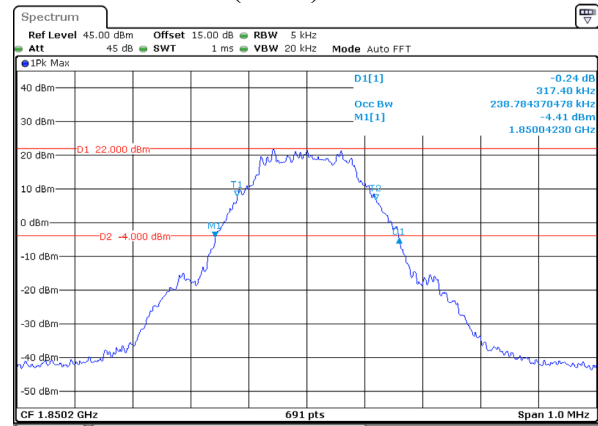
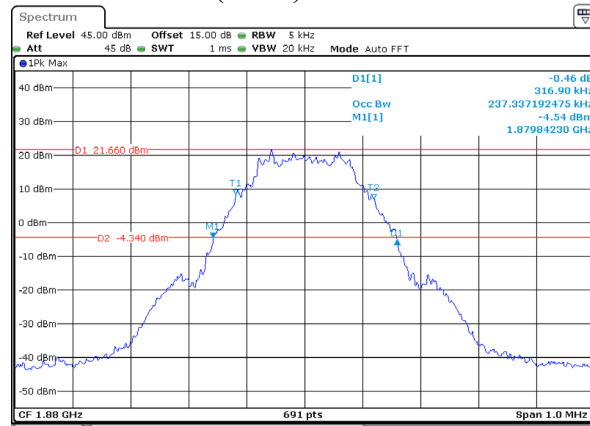
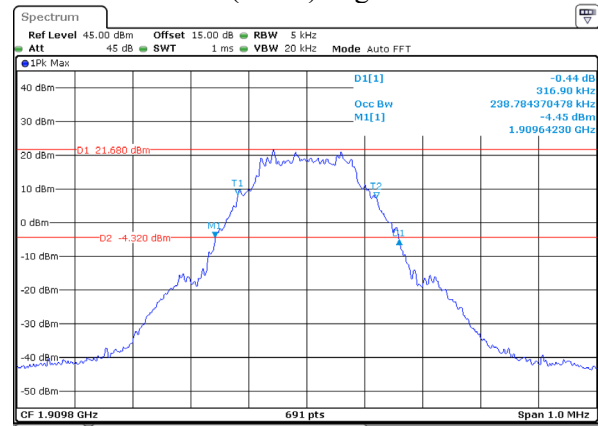
ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 26 MAY 2025 11:46:51

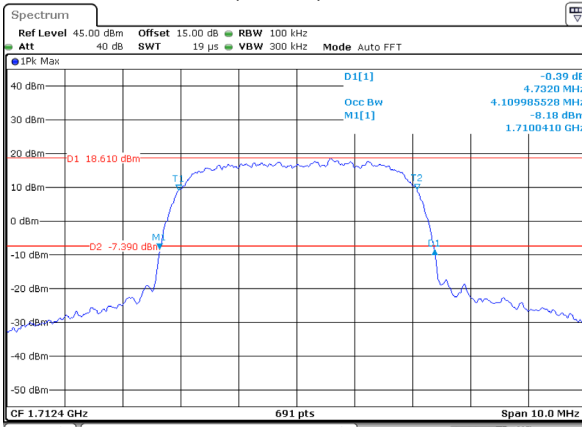
99% Occupied & 26 dB Emissions Bandwidth for  
WCDMA (HSPA+) Middle channel

ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 26 MAY 2025 11:50:32

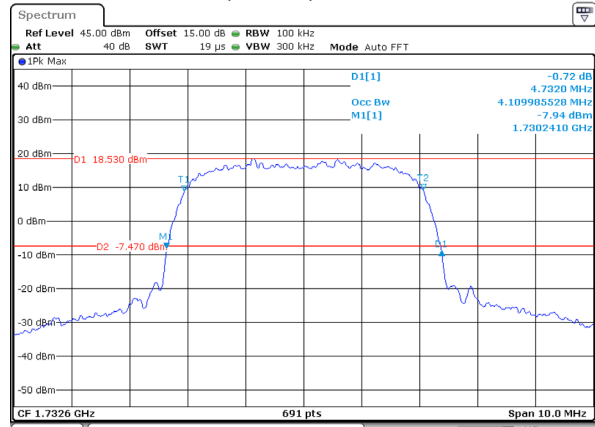
99% Occupied & 26 dB Emissions Bandwidth for  
WCDMA (HSPA+) High channel

ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 26 MAY 2025 11:53:42

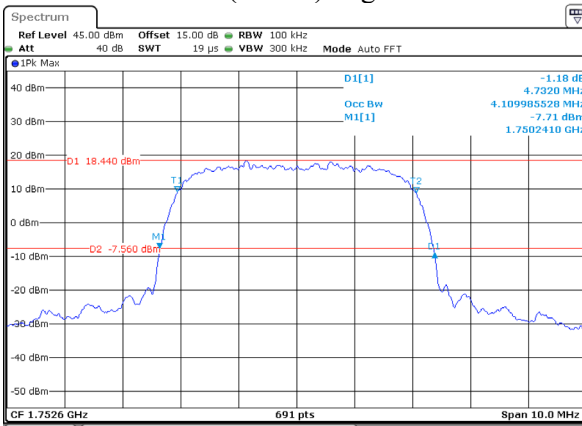
**PCS 1900 Band****99% Occupied & 26 dB Emissions Bandwidth for GPRS (GMSK) Low channel**ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 28 MAY 2025 10:13:51**99% Occupied & 26 dB Emissions Bandwidth for GPRS (GMSK) Middle channel**ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 28 MAY 2025 10:16:40**99% Occupied & 26 dB Emissions Bandwidth for GPRS (GMSK) High channel**ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 28 MAY 2025 10:22:07**99% Occupied & 26 dB Emissions Bandwidth for EGPRS (8PSK) Low channel**ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 28 MAY 2025 10:29:46**99% Occupied & 26 dB Emissions Bandwidth for EGPRS (8PSK) Middle channel**ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 28 MAY 2025 10:31:54**99% Occupied & 26 dB Emissions Bandwidth for EGPRS (8PSK) High channel**ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 28 MAY 2025 10:33:07

**WCDMA Band IV****99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) Low channel**

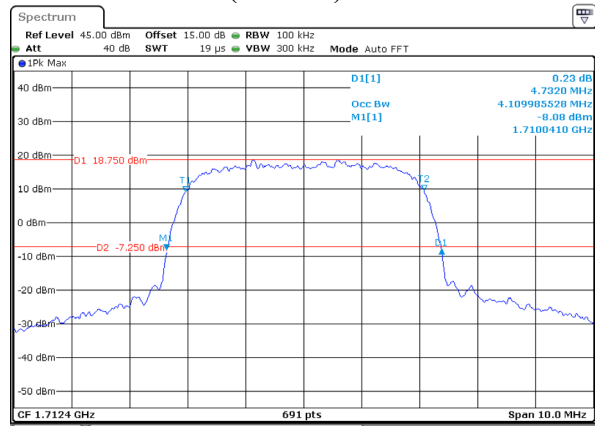
ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 28 MAY 2025 11:27:56

**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) Middle channel**

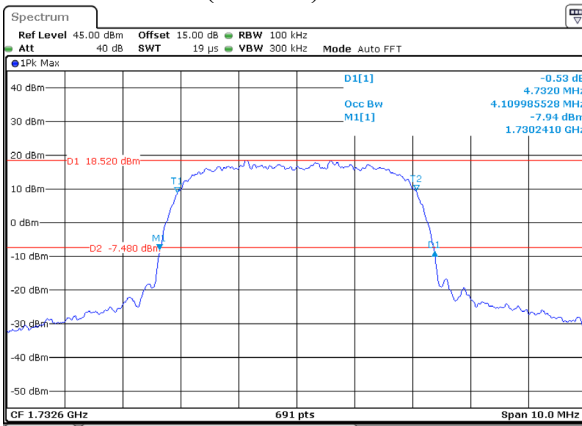
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Date: 26 MAY 2025 11:32:49

**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) High channel**

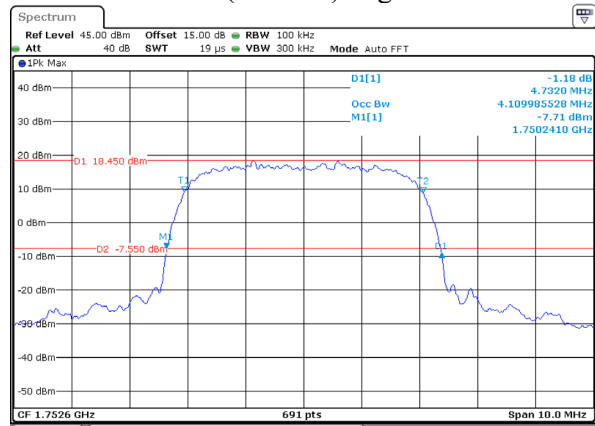
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Date: 26 MAY 2025 11:38:43

**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) Low channel**

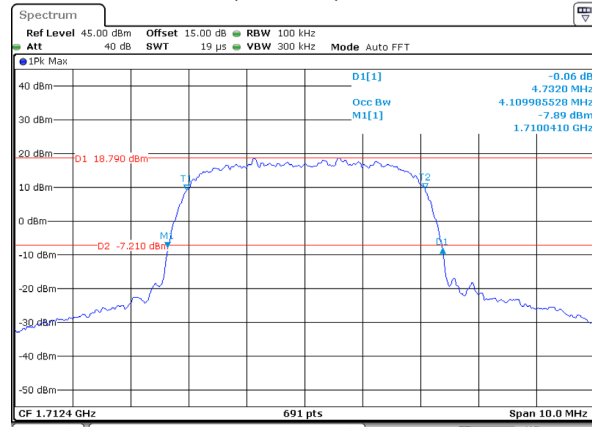
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Date: 26 MAY 2025 11:28:35

**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) Middle channel**

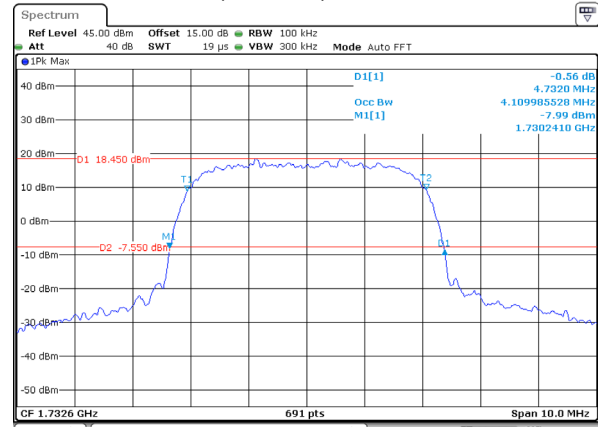
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Date: 26 MAY 2025 11:33:28

**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) High channel**

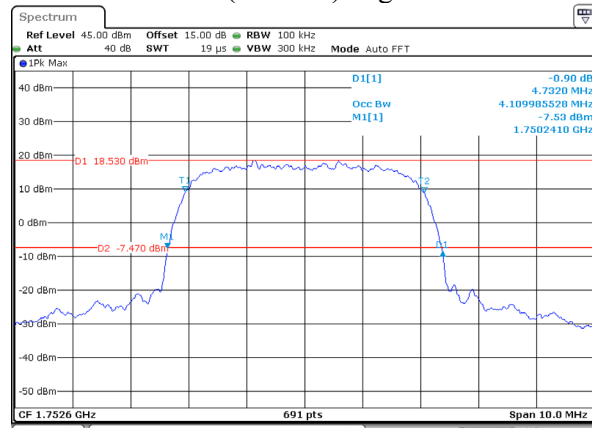
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Date: 26 MAY 2025 11:40:04

99% Occupied & 26 dB Emissions Bandwidth for  
WCDMA (HSUPA) Low channel

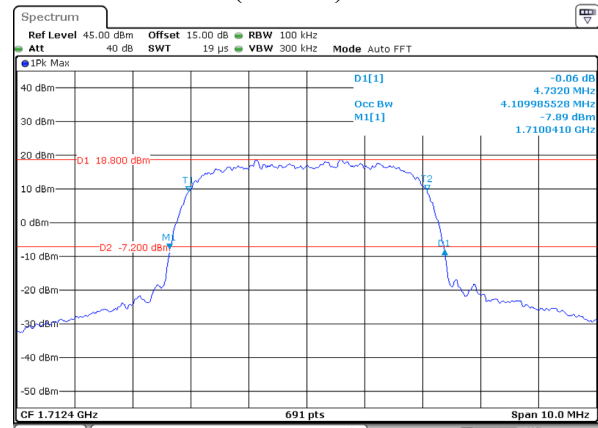
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Date: 28 MAY 2025 11:29:34

99% Occupied & 26 dB Emissions Bandwidth for  
WCDMA (HSUPA) Middle channel

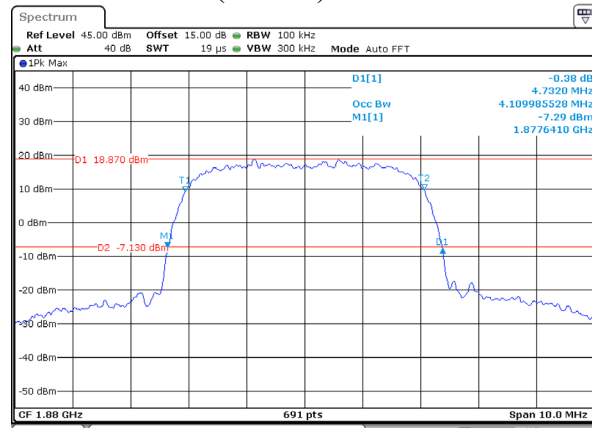
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Date: 28 MAY 2025 11:34:16

99% Occupied & 26 dB Emissions Bandwidth for  
WCDMA (HSUPA) High channel

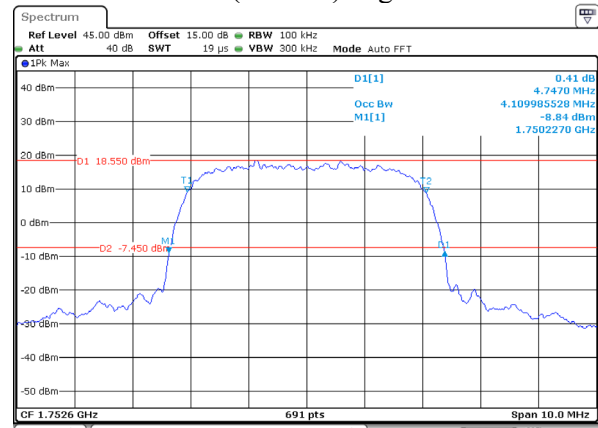
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Date: 28 MAY 2025 11:42:17

99% Occupied & 26 dB Emissions Bandwidth for  
WCDMA (HSPA+) Low channel

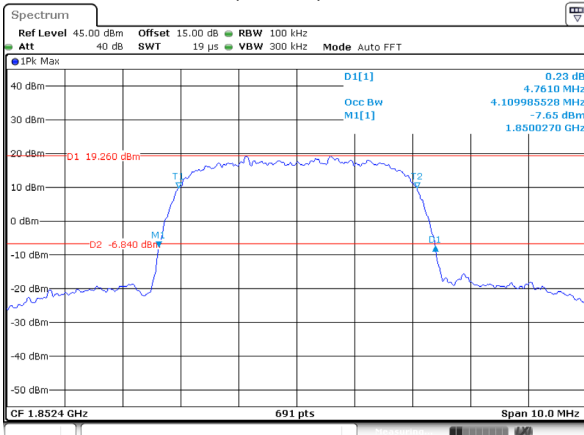
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Date: 28 MAY 2025 11:30:43

99% Occupied & 26 dB Emissions Bandwidth for  
WCDMA (HSPA+) Middle channel

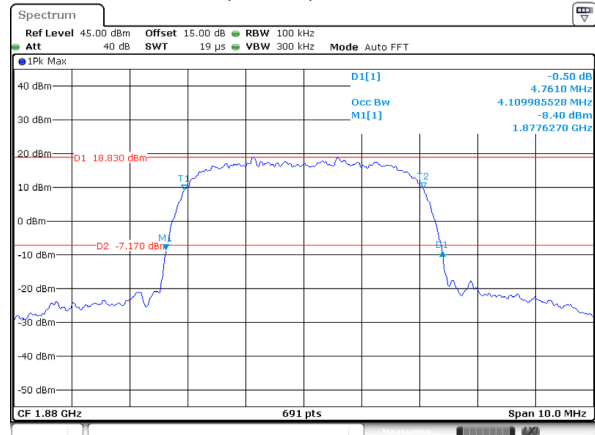
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Date: 28 MAY 2025 11:22:12

99% Occupied & 26 dB Emissions Bandwidth for  
WCDMA (HSPA+) High channel

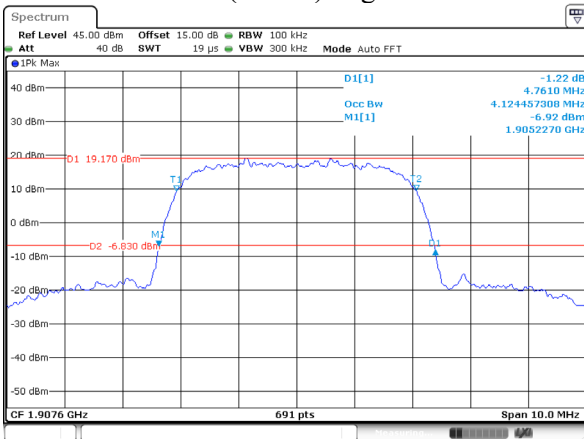
ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 28 MAY 2025 11:43:00

**WCDMA Band II****99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) Low channel**

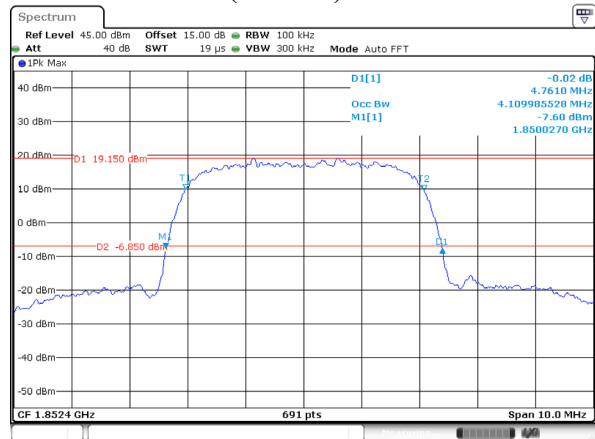
ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 28 MAY 2025 11:11:48

**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) Middle channel**

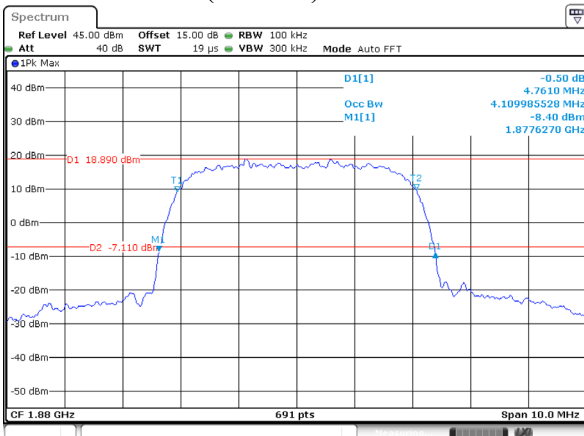
ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 26 MAY 2025 11:18:00

**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) High channel**

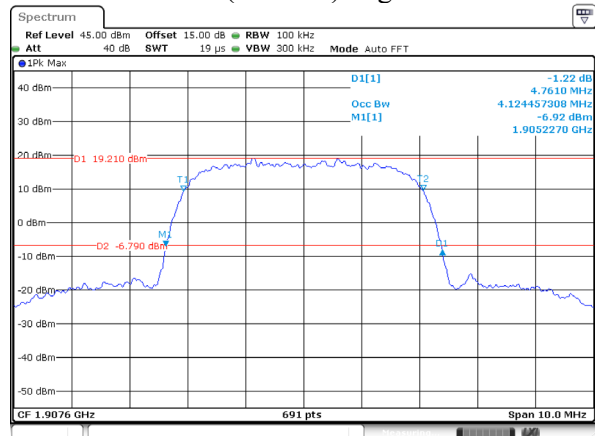
ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 26 MAY 2025 11:23:57

**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) Low channel**

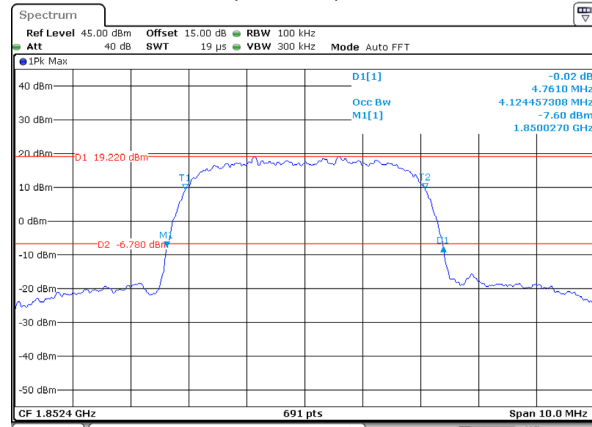
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Date: 26 MAY 2025 11:13:23

**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) Middle channel**

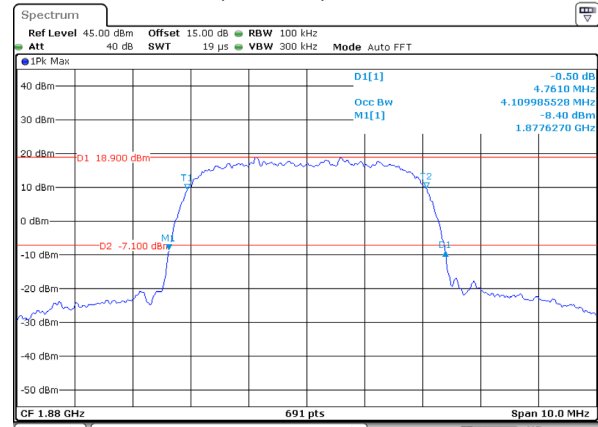
ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 26 MAY 2025 11:18:44

**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) High channel**

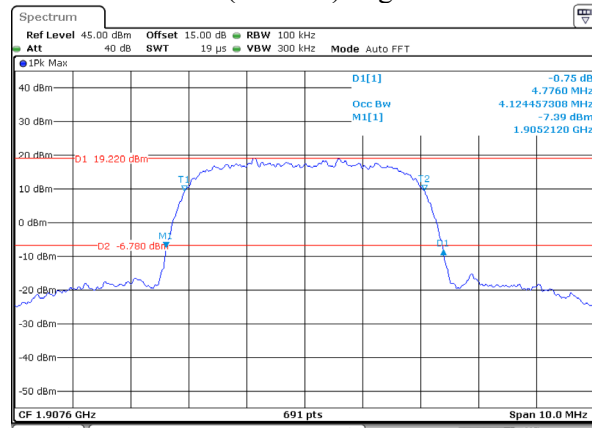
ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 26 MAY 2025 11:24:43

99% Occupied & 26 dB Emissions Bandwidth for  
WCDMA (HSUPA) Low channel

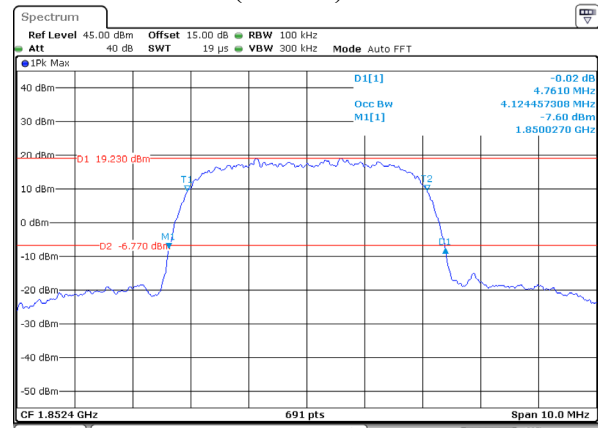
ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 28 MAY 2025 11:14:18

99% Occupied & 26 dB Emissions Bandwidth for  
WCDMA (HSUPA) Middle channel

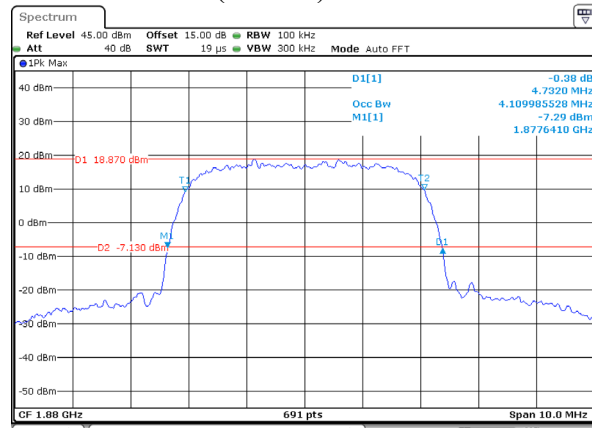
ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 28 MAY 2025 11:19:38

99% Occupied & 26 dB Emissions Bandwidth for  
WCDMA (HSUPA) High channel

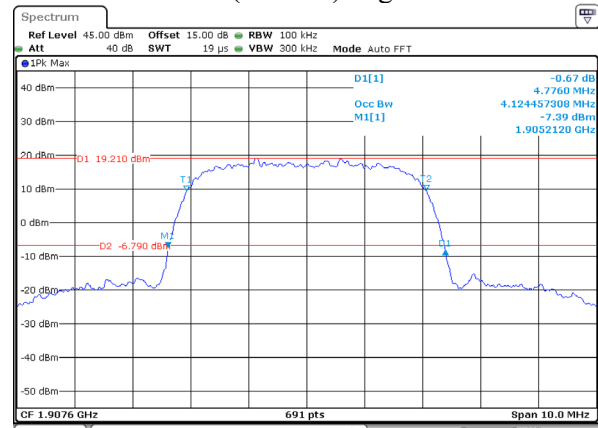
ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 28 MAY 2025 11:25:38

99% Occupied & 26 dB Emissions Bandwidth for  
WCDMA (HSPA+) Low channel

ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 28 MAY 2025 11:15:14

99% Occupied & 26 dB Emissions Bandwidth for  
WCDMA (HSPA+) Middle channel

ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 28 MAY 2025 11:22:12

99% Occupied & 26 dB Emissions Bandwidth for  
WCDMA (HSPA+) High channel

ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 28 MAY 2025 11:26:34

**SPURIOUS EMISSIONS AT ANTENNA TERMINALS****Environmental Conditions & Test Information**

|                           |                          |
|---------------------------|--------------------------|
| <b>Test Date:</b>         | 2025-05-22 to 2025-05-27 |
| <b>Temperature:</b>       | 23.7-24.5 °C             |
| <b>Relative Humidity:</b> | 48-53 %                  |
| <b>ATM Pressure:</b>      | 101.5-103.2 kPa          |
| <b>Test Result:</b>       | Pass                     |
| <b>Test Engineer:</b>     | Neil Zhou                |

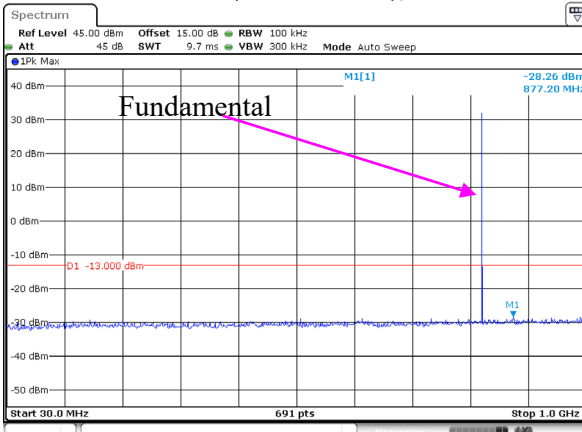
*EUT operation mode: Transmitting*

*Test Result: Compliance*

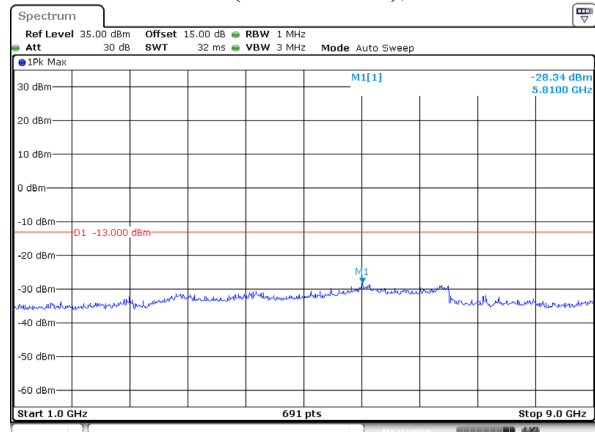
*LTE: Please check the APPENDIX D\_TX spurious for detail.*

**GPRS 850 Band:**

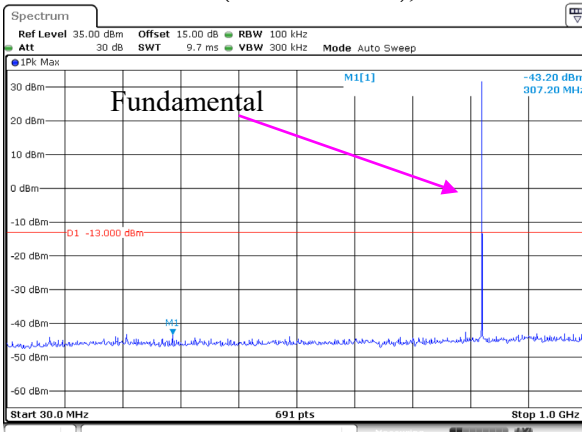
30 MHz – 1GHz (GPRS Mode), Low channel

ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 26 MAY 2025 10:02:47

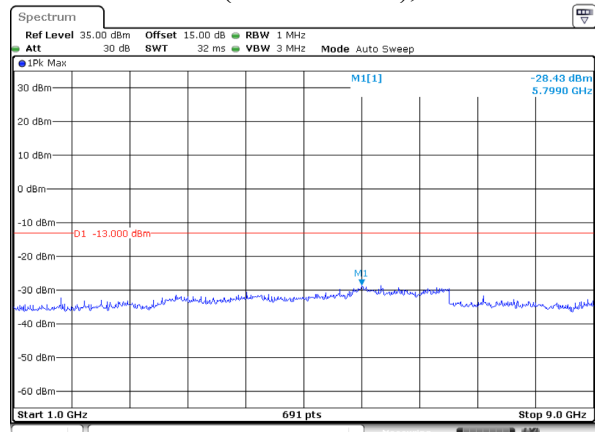
1 GHz – 9 GHz (GPRS Mode), Low channel

ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 26 MAY 2025 10:05:08

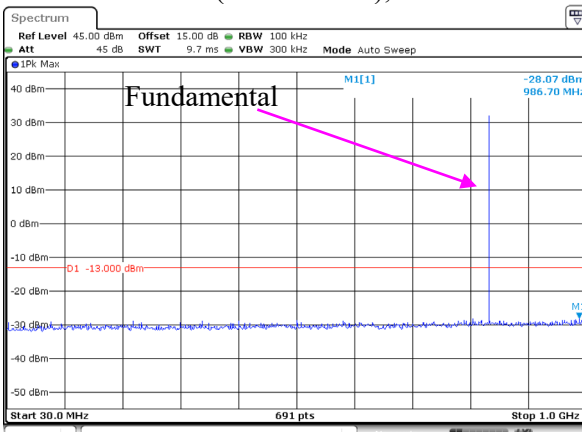
30 MHz – 1GHz (EGPRS Mode), Low channel

ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 27 MAY 2025 13:05:05

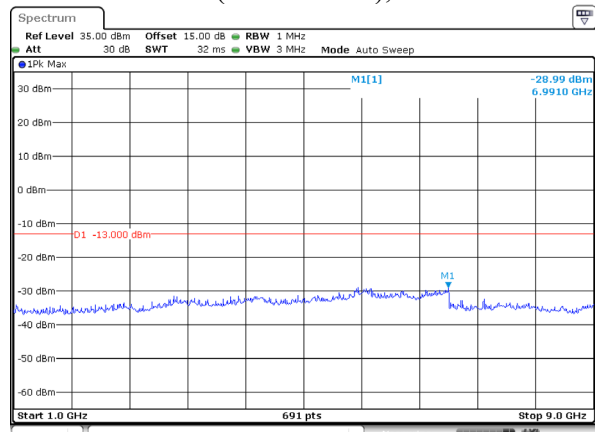
1 GHz – 9 GHz (EGPRS Mode), Low channel

ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 26 MAY 2025 10:04:14

30 MHz – 1GHz (GPRS Mode), Middle channel

ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 26 MAY 2025 10:01:43

1 GHz – 9 GHz (GPRS Mode), Middle channel

ProjectNo.: RKSA250319001 Tester: Neil Zhou  
Date: 26 MAY 2025 10:05:24