



# FCC RF Test Report

APPLICANT : Veea Inc.  
EQUIPMENT : Wireless Edge Server  
BRAND NAME : VeeaHub  
MODEL NAME : VHC25-5G  
FCC ID : 2ARXK-VHC25-5G  
STANDARD : 47 CFR Part 22, 24, 27  
CLASSIFICATION : PCS Licensed Transmitter (PCB)  
TEST DATE(S) : Jul. 23, 2024 ~ Sep. 11, 2024

This product installed a RF module (Brand Name: Quectel, Model Name: RM520N-GL, FCC ID: XMR2022RM520NGL) during the test, only Conducted Power, EIRP and RSE test items are tested in this report, all the other test results are leveraged from module RF report.

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



**Sporton International Inc. (ShenZhen)**

**1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055**

**People's Republic of China**



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## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FG452231J  | Rev. 01 | Initial issue of report | Sep. 18, 2024 |
|            |         |                         |               |
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## SUMMARY OF TEST RESULT

| Report Section | FCC Rule                                                      | Description                                                                                                        | Limit                               | Result | Remark                                         |
|----------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------|------------------------------------------------|
| 3.4            | §2.1046                                                       | Conducted Output Power                                                                                             | Reporting Only                      | PASS   | -                                              |
|                | §22.913(a)(5)                                                 | Effective Radiated Power<br>(5G NR n5, n26)                                                                        | ERP < 7 Watt                        |        |                                                |
|                | §27.50(b)(10)<br>§27.50(c)(10)                                | Effective Radiated Power<br>(5G NR n12, n13, n71)                                                                  | ERP < 3 Watt                        |        |                                                |
|                | §24.232(c)<br>§27.50(h)(2)                                    | Equivalent Isotropic Radiated Power<br>(5G NR n2, n25)<br>(5G NR n7, n41, n38)                                     | EIRP < 2Watt                        |        |                                                |
|                | §27.50(d)(4)                                                  | Equivalent Isotropic Radiated Power<br>(5G NR n66, n70)                                                            | EIRP < 1Watt                        |        |                                                |
| -              | §24.232(d)<br>§27.50(j)(4)                                    | Peak-to-Average Ratio                                                                                              | <13 dB                              | PASS   | 1                                              |
| -              | §2.1049                                                       | Occupied Bandwidth                                                                                                 | Reporting Only                      | PASS   | 1                                              |
| -              | §2.1051<br>§22.917(a)<br>§24.238(a)<br>§27.53(h)<br>§27.53(g) | Conducted Band Edge Measurement<br>(5G NR n5, n26)<br>(5G NR n2, n25)<br>(5G NR n66, n70)<br>(5G NR n12, n13, n71) | < 43+10log <sub>10</sub> (P[Watts]) | PASS   | 1                                              |
|                | §27.53(m)(4)                                                  | Conducted Band Edge Measurement<br>(5G NR n7, n41, n38)                                                            | §27.53(m)(4)                        |        |                                                |
| -              | §2.1051<br>§22.917(a)<br>§24.238(a)<br>§27.53(h)<br>§27.53(g) | Conducted Spurious Emission<br>(5G NR n5, n26)<br>(5G NR n2, n25)<br>(5G NR n66, n70)<br>(5G NR n12, n13, n71)     | < 43+10log <sub>10</sub> (P[Watts]) | PASS   | 1                                              |
|                | §2.1051<br>§27.53(m)(4)                                       | Conducted Spurious Emission<br>(5G NR n7, n41, n38)                                                                | < 55+10log <sub>10</sub> (P[Watts]) |        |                                                |
| -              | §2.1055<br>§22.355                                            | Frequency Stability<br>Temperature & Voltage                                                                       | < 2.5 ppm for Part 22               | PASS   | 1                                              |
|                | §24.235<br>§27.54                                             |                                                                                                                    | Within Authorized Band              |        |                                                |
| 4.4            | §2.1053<br>§22.917(a)<br>§24.238(a)<br>§27.53(h)<br>§27.53(g) | Radiated Spurious Emission<br>(5G NR n5, n26)<br>(5G NR n2, n25)<br>(5G NR n66, n70)<br>(5G NR n12, n13, n71)      | < 43+10log <sub>10</sub> (P[Watts]) | PASS   | Under limit<br>11.38 dB at<br>14482.000<br>MHz |
|                | §2.1053<br>§27.53(m)(4)                                       | Radiated Spurious Emission<br>(5G NR n7, n41, n38)                                                                 | < 55+10log <sub>10</sub> (P[Watts]) |        |                                                |

**Remark 1:** All test results were leveraged from module RF report which can refer to Report No "SEWA2204000008RG02".

### Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

### Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



# 1 General Description

## 1.1 Applicant

Veea Inc.

164 E 83rd Street, NEW YORK, United States 10028

## 1.2 Manufacturer

Veea Inc.

164 E 83rd Street, NEW YORK, United States 10028

## 1.3 Product Feature of Equipment Under Test

| Product Feature |                                 |
|-----------------|---------------------------------|
| Equipment       | Wireless Edge Server            |
| Brand Name      | VeeaHub                         |
| Model Name      | VHC25-5G                        |
| FCC ID          | 2ARXK-VHC25-5G                  |
| SN Code         | Radiation: C25DCW00000000006145 |
| HW Version      | 1.0                             |
| SW Version      | 2.33.1-0.mfg.alpha.4.0.7        |
| EUT Stage       | Identical Prototype             |

## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tx Frequency                            | 5G NR n2 : 1850 MHz ~ 1910 MHz<br>5G NR n5 : 824 MHz ~ 849 MHz<br>5G NR n7 : 2500 MHz ~ 2570 MHz<br>5G NR n12 : 699 MHz ~ 716 MHz<br>5G NR n13 : 777 MHz ~ 787 MHz<br>5G NR n25 : 1850 MHz ~ 1915 MHz<br>5G NR n26 : 824 MHz ~ 849 MHz<br>5G NR n38 : 2570 MHz ~ 2620 MHz<br>5G NR n41 : 2496 MHz ~ 2690 MHz<br>5G NR n66 : 1710 MHz ~ 1780 MHz<br>5G NR n70 : 1695 MHz ~ 1710 MHz<br>5G NR n71: 663 MHz ~ 698 MHz |
| Rx Frequency                            | 5G NR n2 : 1930 MHz ~ 1990 MHz<br>5G NR n5 : 869 MHz ~ 894 MHz<br>5G NR n7 : 2620 MHz ~ 2690 MHz<br>5G NR n12: 729 MHz ~ 746 MHz<br>5G NR n13 : 746 MHz ~ 756 MHz<br>5G NR n25 : 1930 MHz ~ 1995 MHz<br>5G NR n26 : 869 MHz ~ 894 MHz<br>5G NR n38: 2570 MHz ~ 2620 MHz<br>5G NR n41 : 2496 MHz ~ 2690 MHz                                                                                                         |

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | 5G NR n66 : 2110 MHz~ 2200 MHz<br>5G NR n70 : 1995 MHz ~ 2020 MHz<br>5G NR n71: 617 MHz ~ 652 MHz                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Bandwidth</b>          | n2/n5/n26/n71: 5MHz / 10MHz / 15MHz / 20MHz<br>n7/n25: 5MHz / 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz<br>n12/n70 : 5MHz / 10MHz / 15MHz<br>n13 : 5MHz / 10MHz<br>n38: 10MHz / 15MHz / 20MHz / 30MHz / 40MHz<br>n41: 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz<br>n66 : 5MHz / 10MHz / 15MHz / 20MHz/ 30MHz / 40MHz                                                                                                                     |
| <b>SCS</b>                | 15kHz for FDD Bands, 30kHz for TDD Bands                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Antenna Gain</b>       | <b>&lt;Ant. 0&gt;:</b><br>5G NR n2: 3.48 dBi<br>5G NR n5: 1.32 dBi<br>5G NR n7: 2.32 dBi<br>5G NR n12: 1.78 dBi<br>5G NR n13: 1.95 dBi<br>5G NR n25: 3.55 dBi<br>5G NR n26: 1.47 dBi<br>5G NR n38: 1.98 dBi<br>5G NR n41: 2.35 dBi<br>5G NR n66: 2.45 dBi<br>5G NR n71: 1.54 dBi<br><b>&lt;Ant. 2&gt;:</b><br>5G NR n2: 3.96 dBi<br>5G NR n7: 2.57 dBi<br>5G NR n25: 4.00 dBi<br>5G NR n38: 2.80 dBi<br>5G NR n41: 2.80 dBi<br>5G NR n66: 1.90 dBi<br>5G NR n70: 1.00 dBi |
| <b>Type of Modulation</b> | CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM<br>DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM                                                                                                                                                                                                                                                                                                                                                                           |

**Remark:**

1. The maximum ERP/EIRP is calculated from max output power and max antenna gain, only the maximum ERP/EIRP are shown in the report, 5G NR n5/n7/n12/n13/n25/n26/n38/n41/n66/n71 for Ant. 0 and n2/n70 for Ant. 2.
2. 5G NR support SA (n2/n5/n7/n12/n13/n25/n26/n38/n41/n60/n70/n71) mode and NSA(n2/n5/n7/n12/n25/n38/n41/n60/n71) mode.
3. 5G NR n38/n41 supports power class 2 mode.
4. 5G NR n38/n41 support UL MIMO mode for Ant(0+2).
5. 5G NR n38/n41 UL\_MIMO mode supports CP-OFDM Modulation only, the MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.
6. All the supported ENDC combinations are verified conducted power, only the ENDC combination with highest power are shown in the report.
7. The EN-DC mode combination could be referred to the product spec.

## 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.6 Maximum ERP/EIRP and Emission Designator

| EN-DC_4A_n2A |                       | PI/2 BPSK / QPSK | 16QAM / 64QAM / 256QAM |
|--------------|-----------------------|------------------|------------------------|
| BW (MHz)     | Frequency Range (MHz) | Maximum EIRP(W)  | Maximum EIRP(W)        |
| 5            | 1852.5 ~ 1907.5       | 0.5649           | 0.4842                 |
| 10           | 1855.0 ~ 1905.0       | 0.5598           | 0.4529                 |
| 15           | 1857.5 ~ 1902.5       | 0.5559           | 0.4325                 |
| 20           | 1860.0 ~ 1900.0       | 0.5741           | 0.4819                 |

| 5G NR n25 |                       | PI/2 BPSK / QPSK | 16QAM / 64QAM / 256QAM |
|-----------|-----------------------|------------------|------------------------|
| BW (MHz)  | Frequency Range (MHz) | Maximum EIRP(W)  | Maximum EIRP(W)        |
| 5         | 1852.5 ~ 1912.5       | 0.5035           | 0.4018                 |
| 10        | 1855.0 ~ 1910.0       | 0.4775           | 0.3890                 |
| 15        | 1857.5 ~ 1907.5       | 0.5012           | 0.4093                 |
| 20        | 1860.0 ~ 1905.0       | 0.4977           | 0.4074                 |
| 25        | 1862.5 ~ 1902.5       | 0.4943           | 0.4009                 |
| 30        | 1865.0 ~ 1900.0       | 0.5012           | 0.4055                 |
| 40        | 1870.0 ~ 1895.0       | 0.5058           | 0.4236                 |

| 5G NR n5 |                       | PI/2 BPSK / QPSK | 16QAM / 64QAM / 256QAM |
|----------|-----------------------|------------------|------------------------|
| BW (MHz) | Frequency Range (MHz) | Maximum ERP(W)   | Maximum ERP(W)         |
| 5        | 826.5 ~ 846.5         | 0.1959           | 0.1589                 |
| 10       | 829.0 ~ 844.0         | 0.1910           | 0.1535                 |
| 15       | 831.5 ~ 841.5         | 0.1959           | 0.1574                 |
| 20       | 834.0 ~ 839.0         | 0.1963           | 0.1574                 |

| 5G NR n26 |                       | PI/2 BPSK / QPSK | 16QAM / 64QAM / 256QAM |
|-----------|-----------------------|------------------|------------------------|
| BW (MHz)  | Frequency Range (MHz) | Maximum ERP(W)   | Maximum ERP(W)         |
| 5         | 826.5 ~ 846.5         | 0.2032           | 0.1607                 |
| 10        | 829.0 ~ 844.0         | 0.1982           | 0.1589                 |
| 15        | 831.5 ~ 841.5         | 0.2046           | 0.1644                 |
| 20        | 834.0 ~ 839.0         | 0.2061           | 0.1663                 |

| 5G NR n12 |                       | PI/2 BPSK / QPSK | 16QAM / 64QAM / 256QAM |
|-----------|-----------------------|------------------|------------------------|
| BW (MHz)  | Frequency Range (MHz) | Maximum ERP(W)   | Maximum ERP(W)         |
| 5         | 701.5 ~ 713.5         | 0.2183           | 0.1762                 |
| 10        | 704.0 ~ 711.0         | 0.2218           | 0.1762                 |
| 15        | 706.5 ~ 708.5         | 0.2259           | 0.1828                 |

| 5G NR n13 |                       | PI/2 BPSK / QPSK | 16QAM / 64QAM / 256QAM |
|-----------|-----------------------|------------------|------------------------|
| BW (MHz)  | Frequency Range (MHz) | Maximum ERP(W)   | Maximum ERP(W)         |
| 5         | 779.5 ~ 784.5         | 0.2128           | 0.1663                 |
| 10        | 782                   | 0.2148           | 0.1722                 |

| 5G NR n66 |                       | PI/2 BPSK / QPSK | 16QAM / 64QAM / 256QAM |
|-----------|-----------------------|------------------|------------------------|
| BW (MHz)  | Frequency Range (MHz) | Maximum EIRP(W)  | Maximum EIRP(W)        |
| 5         | 1712.5 ~ 1777.5       | 0.4436           | 0.3648                 |
| 10        | 1715.0 ~ 1775.0       | 0.4406           | 0.3532                 |
| 15        | 1717.5 ~ 1772.5       | 0.4508           | 0.3750                 |
| 20        | 1720.0 ~ 1770.0       | 0.4457           | 0.3589                 |
| 30        | 1725.0 ~ 1765.0       | 0.4519           | 0.3707                 |
| 40        | 1730.0 ~ 1760.0       | 0.4550           | 0.3664                 |



| 5G NR n70 |                       | PI/2 BPSK / QPSK | 16QAM / 64QAM / 256QAM |
|-----------|-----------------------|------------------|------------------------|
| BW (MHz)  | Frequency Range (MHz) | Maximum EIRP(W)  | Maximum EIRP(W)        |
| 5         | 1697.5 ~ 1707.5       | 0.2198           | 0.1726                 |
| 10        | 1700.0 ~ 1705.0       | 0.2168           | 0.1722                 |
| 15        | 1702.5                | 0.2213           | 0.1766                 |

| 5G NR n71 |                       | PI/2 BPSK / QPSK | 16QAM / 64QAM / 256QAM |
|-----------|-----------------------|------------------|------------------------|
| BW (MHz)  | Frequency Range (MHz) | Maximum ERP(W)   | Maximum ERP(W)         |
| 5         | 665.5 ~ 695.5         | 0.1977           | 0.1567                 |
| 10        | 668.0 ~ 693.0         | 0.2014           | 0.1563                 |
| 15        | 670.5 ~ 690.5         | 0.2004           | 0.1614                 |
| 20        | 673.0 ~ 688.0         | 0.2032           | 0.1618                 |

| 5G NR n7 |                       | PI/2 BPSK / QPSK | 16QAM / 64QAM / 256QAM |
|----------|-----------------------|------------------|------------------------|
| BW (MHz) | Frequency Range (MHz) | Maximum EIRP(W)  | Maximum EIRP(W)        |
| 5        | 2502.5 ~ 2567.5       | 0.3899           | 0.3251                 |
| 10       | 2505.0 ~ 2565.0       | 0.3917           | 0.3155                 |
| 15       | 2507.5 ~ 2562.5       | 0.4102           | 0.3342                 |
| 20       | 2510.0 ~ 2560.0       | 0.3999           | 0.3342                 |
| 25       | 2512.5 ~ 2557.5       | 0.4111           | 0.3532                 |
| 30       | 2515.0 ~ 2555.0       | 0.4111           | 0.3304                 |
| 40       | 2520.0 ~ 2550.0       | 0.4130           | 0.3342                 |

| 5G NR n38 |                       | PI/2 BPSK / QPSK | 16QAM / 64QAM / 256QAM |
|-----------|-----------------------|------------------|------------------------|
| BW (MHz)  | Frequency Range (MHz) | Maximum EIRP(W)  | Maximum EIRP(W)        |
| 10        | 2575.0 ~ 2615.0       | 0.4989           | 0.4009                 |
| 15        | 2577.5 ~ 2612.5       | 0.5297           | 0.4188                 |
| 20        | 2580.0 ~ 2610.0       | 0.5260           | 0.4207                 |
| 30        | 2585.0 ~ 2605.0       | 0.5297           | 0.4276                 |
| 40        | 2590.0 ~ 2600.0       | 0.5433           | 0.4335                 |



| 5G NR n38 UL MIMO |                       | QPSK            | 16QAM / 64QAM / 256QAM |
|-------------------|-----------------------|-----------------|------------------------|
| BW (MHz)          | Frequency Range (MHz) | Maximum EIRP(W) | Maximum EIRP(W)        |
| 10                | 2575.0 ~ 2615.0       | 0.5023          | 0.4027                 |
| 15                | 2577.5 ~ 2612.5       | 0.5212          | 0.4188                 |
| 20                | 2580.0 ~ 2610.0       | 0.5236          | 0.4198                 |
| 30                | 2585.0 ~ 2605.0       | 0.5333          | 0.4305                 |
| 40                | 2590.0 ~ 2600.0       | 0.5358          | 0.4276                 |

| 5G NR n41 |                       | PI/2 BPSK / QPSK | 16QAM / 64QAM / 256QAM |
|-----------|-----------------------|------------------|------------------------|
| BW (MHz)  | Frequency Range (MHz) | Maximum EIRP(W)  | Maximum EIRP(W)        |
| 20        | 2506.02 ~ 2679.99     | 0.6808           | 0.5420                 |
| 30        | 2511.00 ~ 2674.98     | 0.6902           | 0.5495                 |
| 40        | 2516.01 ~ 2670.00     | 0.6823           | 0.5559                 |
| 50        | 2521.02 ~ 2664.99     | 0.6855           | 0.5445                 |
| 60        | 2526.00 ~ 2659.98     | 0.6683           | 0.5433                 |
| 70        | 2531.01 ~ 2655.00     | 0.6592           | 0.5272                 |
| 80        | 2536.02 ~ 2649.99     | 0.6397           | 0.5188                 |
| 90        | 2541.00 ~ 2644.98     | 0.6561           | 0.5272                 |
| 100       | 2546.01 ~ 2640.00     | 0.6918           | 0.5284                 |

| 5G NR n41 UL MIMO |                       | QPSK            | 16QAM / 64QAM / 256QAM |
|-------------------|-----------------------|-----------------|------------------------|
| BW (MHz)          | Frequency Range (MHz) | Maximum EIRP(W) | Maximum EIRP(W)        |
| 20                | 2506.02 ~ 2679.99     | 0.6368          | 0.5082                 |
| 30                | 2511.00 ~ 2674.98     | 0.6622          | 0.5358                 |
| 40                | 2516.01 ~ 2670.00     | 0.6577          | 0.5236                 |
| 50                | 2521.02 ~ 2664.99     | 0.6339          | 0.5093                 |
| 60                | 2526.00 ~ 2659.98     | 0.6252          | 0.5058                 |
| 70                | 2531.01 ~ 2655.00     | 0.6109          | 0.4920                 |
| 80                | 2536.02 ~ 2649.99     | 0.5970          | 0.4775                 |
| 90                | 2541.00 ~ 2644.98     | 0.5998          | 0.4875                 |
| 100               | 2546.01 ~ 2640.00     | 0.6683          | 0.5358                 |

**Note:** All modulations have been tested, only the worst test results of PSK & QAM are shown in the report.

## 1.7 Testing Location

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

|                           |                                                                                                                                                                         |                            |                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| <b>Test Firm</b>          | Sporton International Inc. (ShenZhen)                                                                                                                                   |                            |                                       |
| <b>Test Site Location</b> | 1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China<br>TEL: +86-755-86379589<br>FAX: +86-755-86379595 |                            |                                       |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                                                 | <b>FCC Designation No.</b> | <b>FCC Test Firm Registration No.</b> |
|                           | TH01-SZ                                                                                                                                                                 | CN1256                     | 421272                                |

|                           |                                                                                                                                                                                                                 |                            |                                       |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| <b>Test Firm</b>          | Sporton International Inc. (ShenZhen)                                                                                                                                                                           |                            |                                       |
| <b>Test Site Location</b> | 101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China<br>TEL: +86-755-86066985 |                            |                                       |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                                                                                         | <b>FCC Designation No.</b> | <b>FCC Test Firm Registration No.</b> |
|                           | 03CH03-SZ                                                                                                                                                                                                       | CN1256                     | 421272                                |

## 1.8 Test Software

| Item | Site      | Manufacture | Name | Version       |
|------|-----------|-------------|------|---------------|
| 1.   | 03CH03-SZ | AUDIX       | E3   | 6.2009-8-24al |

## 1.9 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 22, 24, 27
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

### Remark:

All test items were verified and recorded according to the standards and without any deviation during the test.



## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

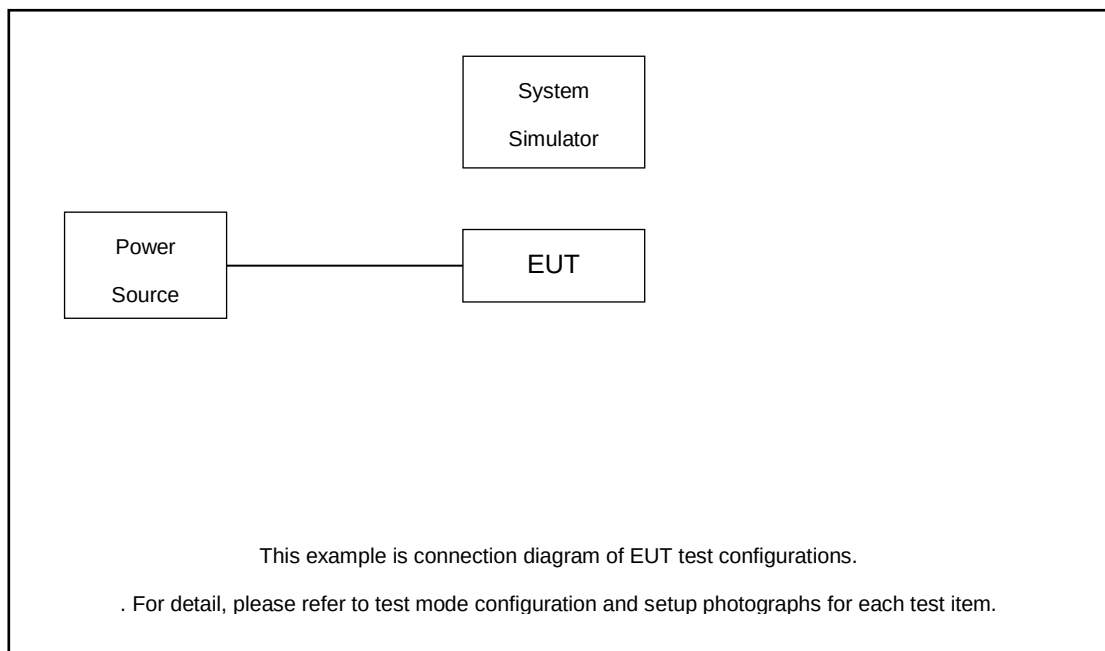
| Orthogonal<br>Planes of EUT | X Plane | Y Plane | Z Plane |
|-----------------------------|---------|---------|---------|
|                             |         |         |         |

| Test Items        | 5G NR | Bandwidth (MHz) |    |    |    |    |    |    |    |    |    |    |    |     | Modulation |      |       |       |        | RB # |      | Test Channel |   |   |
|-------------------|-------|-----------------|----|----|----|----|----|----|----|----|----|----|----|-----|------------|------|-------|-------|--------|------|------|--------------|---|---|
|                   |       | 5               | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | PI/2 BPSK  | QPSK | 16QAM | 64QAM | 256QAM | 1    | Full | L            | M | H |
| Max. Output Power | n2    | v               | v  | v  | v  | -  | -  | -  | -  | -  | -  | -  | -  | -   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
|                   | n5    | v               | v  | v  | v  | -  | -  | -  | -  | -  | -  | -  | -  | -   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
|                   | n7    | v               | v  | v  | v  | v  | v  | v  | -  | -  | -  | -  | -  | -   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
|                   | n12   | v               | v  | v  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
|                   | n13   | v               | v  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
|                   | n25   | v               | v  | v  | v  | v  | v  | v  | -  | -  | -  | -  | -  | -   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
|                   | n26   | v               | v  | v  | v  | -  | -  | -  | -  | -  | -  | -  | -  | -   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
|                   | n38   | -               | v  | v  | v  | v  | v  | v  | -  | -  | -  | -  | -  | -   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
|                   | n41   | -               | -  | -  | v  | -  | v  | v  | v  | v  | v  | v  | v  | v   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
|                   | n66   | v               | v  | v  | v  | -  | v  | v  | -  | -  | -  | -  | -  | -   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
|                   | n70   | v               | v  | v  | v  | v  | -  | -  | -  | -  | -  | -  | -  | -   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
|                   | n71   | v               | v  | v  | v  | -  | -  | -  | -  | -  | -  | -  | -  | -   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |



| Test Items                 | 5G NR                                                                                                                                                                                                                                                                                                                                                                                | Bandwidth (MHz) |    |    |    |    |    |    |    |    |    |    |    |     | Modulation |      |       |       |        | RB # |      | Test Channel |   |   |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----|----|----|----|----|----|----|----|----|----|----|-----|------------|------|-------|-------|--------|------|------|--------------|---|---|
|                            |                                                                                                                                                                                                                                                                                                                                                                                      | 5               | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | PI/2 BPSK  | QPSK | 16QAM | 64QAM | 256QAM | 1    | Full | L            | M | H |
| E.R.P / E.I.R.P            | n2                                                                                                                                                                                                                                                                                                                                                                                   | v               | v  | v  | v  | -  | -  | -  | -  | -  | -  | -  | -  | -   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
|                            | n5                                                                                                                                                                                                                                                                                                                                                                                   | v               | v  | v  | v  | -  | -  | -  | -  | -  | -  | -  | -  | -   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
|                            | n7                                                                                                                                                                                                                                                                                                                                                                                   | v               | v  | v  | v  | v  | v  | v  | -  | -  | -  | -  | -  | -   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
|                            | n12                                                                                                                                                                                                                                                                                                                                                                                  | v               | v  | v  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
|                            | n13                                                                                                                                                                                                                                                                                                                                                                                  | v               | v  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
|                            | n25                                                                                                                                                                                                                                                                                                                                                                                  | v               | v  | v  | v  | v  | v  | v  | -  | -  | -  | -  | -  | -   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
|                            | n26                                                                                                                                                                                                                                                                                                                                                                                  | v               | v  | v  | v  | -  | -  | -  | -  | -  | -  | -  | -  | -   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
|                            | n38                                                                                                                                                                                                                                                                                                                                                                                  | -               | v  | v  | v  | v  | v  | v  | -  | -  | -  | -  | -  | -   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
|                            | n41                                                                                                                                                                                                                                                                                                                                                                                  | -               | -  | -  | v  | -  | v  | v  | v  | v  | v  | v  | v  | v   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
|                            | n66                                                                                                                                                                                                                                                                                                                                                                                  | v               | v  | v  | v  | -  | v  | v  | -  | -  | -  | -  | -  | -   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
|                            | n70                                                                                                                                                                                                                                                                                                                                                                                  | v               | v  | v  | v  | v  | -  | -  | -  | -  | -  | -  | -  | -   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
|                            | n71                                                                                                                                                                                                                                                                                                                                                                                  | v               | v  | v  | v  | -  | -  | -  | -  | -  | -  | -  | -  | -   | v          | v    | v     | v     | v      | v    | v    | v            | v | v |
| Radiated Spurious Emission | n7                                                                                                                                                                                                                                                                                                                                                                                   | Worst Case      |    |    |    |    |    |    |    |    |    |    |    |     |            |      |       |       |        |      |      | v            |   |   |
|                            | n12                                                                                                                                                                                                                                                                                                                                                                                  | Worst Case      |    |    |    |    |    |    |    |    |    |    |    |     |            |      |       |       |        |      |      | v            |   |   |
|                            | n13                                                                                                                                                                                                                                                                                                                                                                                  | Worst Case      |    |    |    |    |    |    |    |    |    |    |    |     |            |      |       |       |        |      |      | v            |   |   |
|                            | n25                                                                                                                                                                                                                                                                                                                                                                                  | Worst Case      |    |    |    |    |    |    |    |    |    |    |    |     |            |      |       |       |        |      |      | v            |   |   |
|                            | n26                                                                                                                                                                                                                                                                                                                                                                                  | Worst Case      |    |    |    |    |    |    |    |    |    |    |    |     |            |      |       |       |        |      |      | v            |   |   |
|                            | n41                                                                                                                                                                                                                                                                                                                                                                                  | Worst Case      |    |    |    |    |    |    |    |    |    |    |    |     |            |      |       |       |        |      |      | v            |   |   |
|                            | n66                                                                                                                                                                                                                                                                                                                                                                                  | Worst Case      |    |    |    |    |    |    |    |    |    |    |    |     |            |      |       |       |        |      |      | v            |   |   |
|                            | n70                                                                                                                                                                                                                                                                                                                                                                                  | Worst Case      |    |    |    |    |    |    |    |    |    |    |    |     |            |      |       |       |        |      |      | v            |   |   |
|                            | n71                                                                                                                                                                                                                                                                                                                                                                                  | Worst Case      |    |    |    |    |    |    |    |    |    |    |    |     |            |      |       |       |        |      |      | v            |   |   |
| Note                       | 1. The mark “v ” means that this configuration is chosen for testing<br>2. The mark “- ” means that this bandwidth is not supported.<br>3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. |                 |    |    |    |    |    |    |    |    |    |    |    |     |            |      |       |       |        |      |      |              |   |   |

## 2.2 Connection Diagram of Test System



The EUT has been configuration operated in a manner tended to maximize its emission characteristics in a typical application.

## 2.3 Support Unit used in test configuration and system

| Item | Equipment        | Trade Name | Model No. | FCC ID | Data Cable | Power Cord        |
|------|------------------|------------|-----------|--------|------------|-------------------|
| 1.   | DC Power Supply  | GW         | GPS-3030D | N/A    | N/A        | Unshielded, 1.8 m |
| 2.   | LTE Base Station | Anritsu    | MT8821C   | N/A    | N/A        | Unshielded, 1.8 m |
| 3.   | NR Base Station  | Anritsu    | MT8000A   | N/A    | N/A        | Unshielded, 1.8 m |

## 2.4 Frequency List of Low/Middle/High Channels

| 5G NR n2 Channel and Frequency List |                        |        |        |         |
|-------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                            | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                  | Channel                | 372000 | 376000 | 380000  |
|                                     | Frequency              | 1860   | 1880   | 1900    |
| 15                                  | Channel                | 371500 | 376000 | 380500  |
|                                     | Frequency              | 1857.5 | 1880   | 1902.5  |
| 10                                  | Channel                | 371000 | 376000 | 381000  |
|                                     | Frequency              | 1855   | 1880   | 1905    |
| 5                                   | Channel                | 370500 | 376000 | 381500  |
|                                     | Frequency              | 1852.5 | 1880   | 1907.5  |

| 5G NR n5 Channel and Frequency List |                        |        |        |         |
|-------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                            | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                  | Channel                | 166800 | 167300 | 167800  |
|                                     | Frequency              | 834    | 836.5  | 839     |
| 15                                  | Channel                | 166300 | 167300 | 168300  |
|                                     | Frequency              | 831.5  | 836.5  | 841.5   |
| 10                                  | Channel                | 165800 | 167300 | 168800  |
|                                     | Frequency              | 829    | 836.5  | 844     |
| 5                                   | Channel                | 165300 | 167300 | 169300  |
|                                     | Frequency              | 826.5  | 836.5  | 846.5   |



| 5G NR n7 Channel and Frequency List |                        |        |        |         |
|-------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                            | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 40                                  | Channel                | 504000 | 507000 | 510000  |
|                                     | Frequency              | 2520   | 2535   | 2550    |
| 30                                  | Channel                | 503000 | 507000 | 511000  |
|                                     | Frequency              | 2515   | 2535   | 2555    |
| 25                                  | Channel                | 502500 | 507000 | 511500  |
|                                     | Frequency              | 2512.5 | 2535   | 2557.5  |
| 20                                  | Channel                | 502000 | 507000 | 512000  |
|                                     | Frequency              | 2510   | 2535   | 2560    |
| 15                                  | Channel                | 501500 | 507000 | 512500  |
|                                     | Frequency              | 2507.5 | 2535   | 2562.5  |
| 10                                  | Channel                | 501000 | 507000 | 513000  |
|                                     | Frequency              | 2505   | 2535   | 2565    |
| 5                                   | Channel                | 500500 | 507000 | 513500  |
|                                     | Frequency              | 2502.5 | 2535   | 2567.5  |

| 5G NR n12 Channel and Frequency List |                        |        |        |         |
|--------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                             | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 15                                   | Channel                | 141300 | 141500 | 141700  |
|                                      | Frequency              | 706.5  | 707.5  | 708.5   |
| 10                                   | Channel                | 140800 | 141500 | 142200  |
|                                      | Frequency              | 704    | 707.5  | 711     |
| 5                                    | Channel                | 140300 | 141500 | 142700  |
|                                      | Frequency              | 701.5  | 707.5  | 713.5   |

| 5G NR n13 Channel and Frequency List |                        |        |        |         |
|--------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                             | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                   | Channel                | 156400 |        |         |
|                                      | Frequency              | 782    |        |         |
| 5                                    | Channel                | 155900 | 156400 | 156900  |
|                                      | Frequency              | 779.5  | 782    | 784.5   |



| 5G NR n25 Channel and Frequency List |                        |        |        |         |
|--------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                             | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 40                                   | Channel                | 390000 | 392500 | 395000  |
|                                      | Frequency              | 1870   | 1882.5 | 1895    |
| 30                                   | Channel                | 389000 | 392500 | 396000  |
|                                      | Frequency              | 1865   | 1882.5 | 1900    |
| 25                                   | Channel                | 388500 | 392500 | 396500  |
|                                      | Frequency              | 1862.5 | 1882.5 | 1902.5  |
| 20                                   | Channel                | 372000 | 376500 | 381000  |
|                                      | Frequency              | 1860   | 1882.5 | 1905    |
| 15                                   | Channel                | 371500 | 376500 | 381500  |
|                                      | Frequency              | 1857.5 | 1882.5 | 1907.5  |
| 10                                   | Channel                | 371000 | 376500 | 382000  |
|                                      | Frequency              | 1855   | 1882.5 | 1910    |
| 5                                    | Channel                | 370500 | 376500 | 382500  |
|                                      | Frequency              | 1852.5 | 1882.5 | 1912.5  |

| 5G NR n26 Channel and Frequency List |                        |        |        |         |
|--------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                             | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                   | Channel                | 166800 | 167300 | 167800  |
|                                      | Frequency              | 834    | 836.5  | 839     |
| 15                                   | Channel                | 166300 | 167300 | 168300  |
|                                      | Frequency              | 831.5  | 836.5  | 841.5   |
| 10                                   | Channel                | 165800 | 167300 | 168800  |
|                                      | Frequency              | 829    | 836.5  | 844     |
| 5                                    | Channel                | 165300 | 167300 | 169300  |
|                                      | Frequency              | 826.5  | 836.5  | 846.5   |



| 5G NR n38 Channel and Frequency List |                        |        |        |         |
|--------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                             | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 40                                   | Channel                | 518000 | 519000 | 520000  |
|                                      | Frequency              | 2590   | 2595   | 2600    |
| 30                                   | Channel                | 517000 | 519000 | 521000  |
|                                      | Frequency              | 2585   | 2595   | 2605    |
| 20                                   | Channel                | 516000 | 519000 | 522000  |
|                                      | Frequency              | 2580   | 2595   | 2610    |
| 15                                   | Channel                | 515500 | 519000 | 522500  |
|                                      | Frequency              | 2577.5 | 2595   | 2612.5  |
| 10                                   | Channel                | 515000 | 519000 | 523000  |
|                                      | Frequency              | 2575   | 2595   | 2615    |

| 5G NR n41 Channel and Frequency List for SCS 30k |                        |         |         |         |
|--------------------------------------------------|------------------------|---------|---------|---------|
| BW [MHz]                                         | Channel/Frequency(MHz) | Lowest  | Middle  | Highest |
| 100                                              | Channel                | 509202  | 518598  | 528000  |
|                                                  | Frequency              | 2546.01 | 2592.99 | 2640    |
| 90                                               | Channel                | 508200  | 518598  | 528996  |
|                                                  | Frequency              | 2541    | 2592.99 | 2644.98 |
| 80                                               | Channel                | 507204  | 518598  | 529998  |
|                                                  | Frequency              | 2536.02 | 2592.99 | 2649.99 |
| 70                                               | Channel                | 506202  | 518598  | 531000  |
|                                                  | Frequency              | 2531.01 | 2592.99 | 2655    |
| 60                                               | Channel                | 505200  | 518598  | 531996  |
|                                                  | Frequency              | 2526    | 2592.99 | 2659.98 |
| 50                                               | Channel                | 504204  | 518598  | 532998  |
|                                                  | Frequency              | 2521.02 | 2592.99 | 2664.99 |
| 40                                               | Channel                | 503202  | 518598  | 534000  |
|                                                  | Frequency              | 2516.01 | 2592.99 | 2670    |
| 30                                               | Channel                | 502200  | 518598  | 534996  |
|                                                  | Frequency              | 2511    | 2592.99 | 2674.98 |
| 20                                               | Channel                | 501204  | 518598  | 535998  |
|                                                  | Frequency              | 2506.02 | 2592.99 | 2679.99 |



| 5G NR n66 Channel and Frequency List |                        |        |        |         |
|--------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                             | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 40                                   | Channel                | 346000 | 349000 | 352000  |
|                                      | Frequency              | 1730   | 1745   | 1760    |
| 30                                   | Channel                | 345000 | 349000 | 353000  |
|                                      | Frequency              | 1725   | 1745   | 1765    |
| 20                                   | Channel                | 344000 | 349000 | 354000  |
|                                      | Frequency              | 1720   | 1745   | 1770    |
| 15                                   | Channel                | 343500 | 349000 | 354500  |
|                                      | Frequency              | 1717.5 | 1745   | 1772.5  |
| 10                                   | Channel                | 343000 | 349000 | 355000  |
|                                      | Frequency              | 1715   | 1745   | 1775    |
| 5                                    | Channel                | 342500 | 349000 | 355500  |
|                                      | Frequency              | 1712.5 | 1745   | 1777.5  |

| 5G NR n70 Channel and Frequency List |                        |        |        |         |
|--------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                             | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 15                                   | Channel                | 340500 |        |         |
|                                      | Frequency              | 1702.5 |        |         |
| 10                                   | Channel                | 340000 | 340500 | 341000  |
|                                      | Frequency              | 1700   | 1702.5 | 1705    |
| 5                                    | Channel                | 399500 | 340500 | 341500  |
|                                      | Frequency              | 1697.5 | 1702.5 | 1707.5  |

| 5G NR n71 Channel and Frequency List |                        |        |        |         |
|--------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                             | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                   | Channel                | 134600 | 136100 | 137600  |
|                                      | Frequency              | 673    | 680.5  | 688     |
| 15                                   | Channel                | 134100 | 136100 | 138100  |
|                                      | Frequency              | 670.5  | 680.5  | 690.5   |
| 10                                   | Channel                | 133600 | 136100 | 138600  |
|                                      | Frequency              | 668    | 680.5  | 693     |
| 5                                    | Channel                | 133100 | 136100 | 139100  |
|                                      | Frequency              | 665.5  | 680.5  | 695.5   |

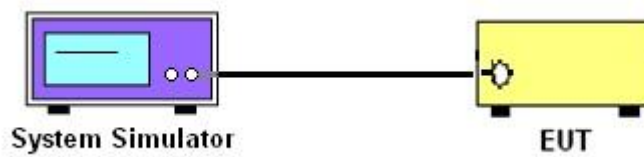
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.2 Test Setup

##### 3.2.1 Conducted Output Power



#### 3.3 Test Result of Conducted Test

Please refer to Appendix A.

### 3.4 Conducted Output Power and ERP/EIRP

#### 3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for 5G NR n5, n26.

The ERP of mobile transmitters must not exceed 3 Watts for 5G NR n12, n13, n71.

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n2, n7, n25, n38, n41.

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n66, n70.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ ,  $ERP = EIRP - 2.15$ , where

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

$L_C$  = signal attenuation in the connecting cable between the transmitter and antenna in dB

#### 3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

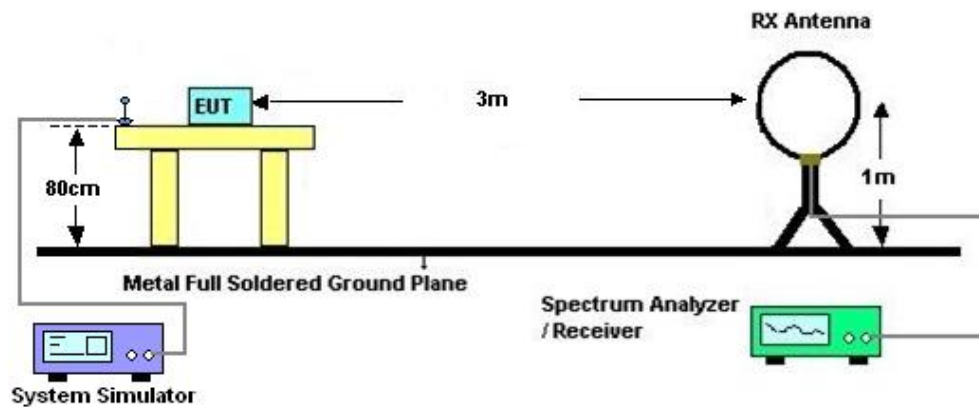
## 4 Radiated Test Items

### 4.1 Measuring Instruments

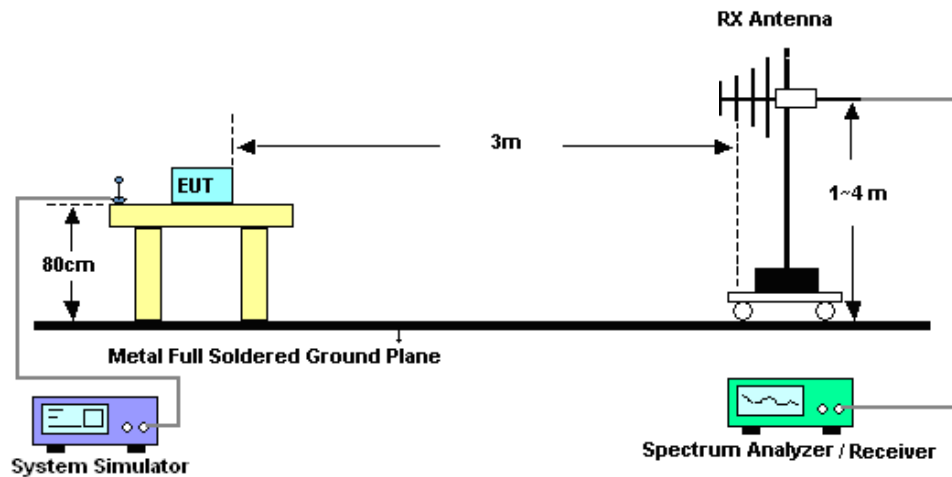
See list of measuring instruments of this test report.

### 4.2 Test Setup

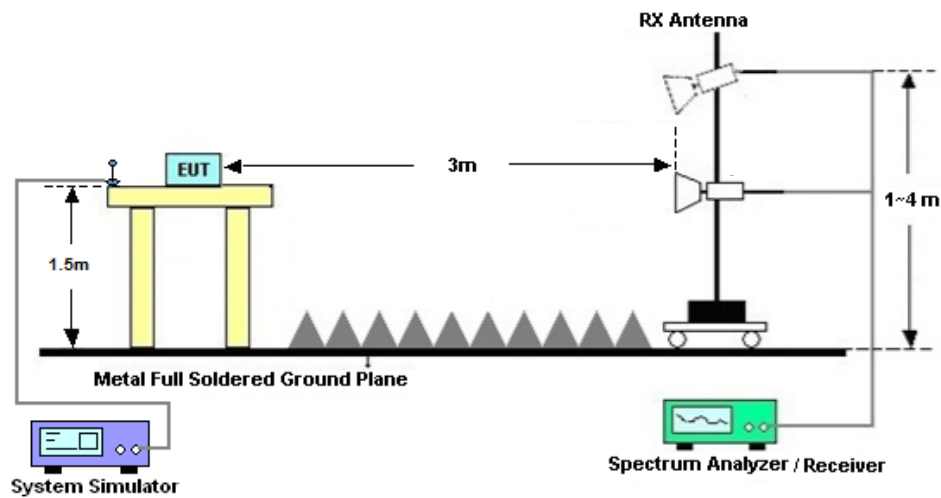
#### 4.2.1 For radiated test below 30MHz



#### 4.2.2 For radiated test from 30MHz to 1GHz



#### 4.2.3 For radiated test above 1GHz



#### 4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

## 4.4 Radiated Spurious Emission

### 4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

For 5G NR n7/n38/n41

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $55 + 10 \log (P)$  dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### 4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10.  $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11.  $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$   
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$   
 $= -13\text{dBm}.$

13. For 5G NR n7/n38/n41:

The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)



## 5 List of Measuring Equipment

| Instrument                | Manufacturer         | Model No.         | Serial No.         | Characteristics | Calibration Date | Test Date     | Due Date      | Remark                |
|---------------------------|----------------------|-------------------|--------------------|-----------------|------------------|---------------|---------------|-----------------------|
| Spectrum Analyzer         | R&S                  | FSV40             | 101078             | 10Hz~40GHz      | Apr. 09, 2024    | Sep. 11, 2024 | Apr. 08, 2025 | Conducted (TH01-SZ)   |
| Power Divider             | TOJOIN               | PS-2SM-04<br>265  | 60.06.020.007<br>7 | 0.4GHz~26.5GHz  | Dec. 25, 2023    | Sep. 11, 2024 | Dec. 24, 2024 | Conducted (TH01-SZ)   |
| EMI Test Receiver&SA      | KEYSIGHT             | N9038A            | MY54450083         | 20Hz~8.4GHz     | Apr. 09, 2024    | Jul. 31, 2024 | Apr. 08, 2025 | Radiation (03CH03-SZ) |
| Loop Antenna              | R&S                  | HFH2-Z2E          | 101141             | 9kHz~30MHz      | Dec. 29, 2023    | Jul. 31, 2024 | Dec. 28, 2024 | Radiation (03CH03-SZ) |
| EXA Spectrum Analyzer     | KEYSIGHT             | N9010A            | MY55150246         | 10Hz~44GHz;     | Apr. 09, 2024    | Jul. 31, 2024 | Apr. 08, 2025 | Radiation (03CH03-SZ) |
| Bilog Antenna             | TeseQ                | CBL6112D          | 35408              | 30MHz-2GHz      | Aug. 20, 2023    | Jul. 31, 2024 | Aug. 19, 2025 | Radiation (03CH03-SZ) |
| Double Ridge Horn Antenna | SCHWARZBECK          | BBHA9120D         | 9120D-1355         | 1GHz~18GHz      | Apr. 09, 2024    | Jul. 31, 2024 | Apr. 08, 2025 | Radiation (03CH03-SZ) |
| Amplifier                 | Burgeon              | BPA-530           | 102211             | 0.01Hz ~3000MHz | Oct. 18, 2023    | Jul. 31, 2024 | Oct. 17, 2024 | Radiation (03CH03-SZ) |
| HF Amplifier              | MITEQ                | TTA1840-35<br>-HG | 1871923            | 18GHz~40GHz     | Jul. 03, 2024    | Jul. 31, 2024 | Jul. 02, 2025 | Radiation (03CH03-SZ) |
| SHF-EHF Horn              | com-power            | AH-840            | 101071             | 18Ghz-40GHz     | Apr. 09, 2024    | Jul. 31, 2024 | Apr. 08, 2025 | Radiation (03CH03-SZ) |
| Amplifier                 | Agilent Technologies | 83017A            | MY39501302         | 500MHz~26.5GHz  | Dec. 27, 2023    | Jul. 31, 2024 | Dec. 26, 2024 | Radiation (03CH03-SZ) |
| AC Power Source           | Chroma               | 61601             | 616010002729       | N/A             | Oct. 18, 2023    | Jul. 31, 2024 | Oct. 17, 2024 | Radiation (03CH03-SZ) |
| Turn Table                | EM                   | EM1000            | N/A                | 0~360 degree    | NCR              | Jul. 31, 2024 | NCR           | Radiation (03CH03-SZ) |
| Antenna Mast              | EM                   | EM1000            | N/A                | 1 m~4 m         | NCR              | Jul. 31, 2024 | NCR           | Radiation (03CH03-SZ) |

NCR: No Calibration Required

## 6 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

### Uncertainty of Conducted Measurement

| Test Item       | Uncertainty |
|-----------------|-------------|
| Conducted Power | ±1.34 dB    |

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | ±3.0 dB |
|-------------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | ±3.6 dB |
|-------------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | ±3.8 dB |
|-------------------------------------------------------------------------|---------|

----- THE END -----



## Appendix A. Test Results of Conducted Test

|                 |           |                     |         |
|-----------------|-----------|---------------------|---------|
| Test Engineer : | Khan Zhen | Temperature :       | 22~23°C |
|                 |           | Relative Humidity : | 40~42%  |

### EN-DC\_4A\_n2A

#### Transmitter Conducted Output Power And EIRP, (GT - LC)=3.96db

| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation           | RB    | Conducted Power(dBm) | EIRP(dBm) | EIRP(W) |
|---------|-----|-----------|--------|-----------|----------------------|-------|----------------------|-----------|---------|
| 2       | 15  | 5         | 370500 | 1852.5    | DFT-s-OFDM QPSK      | 1@1   | 23.44                | 27.4      | 0.5495  |
| 2       | 15  | 5         | 370500 | 1852.5    | DFT-s-OFDM 16 QAM    | 1@1   | 22.35                | 26.31     | 0.4276  |
| 2       | 15  | 5         | 376000 | 1880      | DFT-s-OFDM QPSK      | 1@1   | 23.56                | 27.52     | 0.5649  |
| 2       | 15  | 5         | 376000 | 1880      | DFT-s-OFDM 16 QAM    | 1@1   | 22.89                | 26.85     | 0.4842  |
| 2       | 15  | 5         | 381500 | 1907.5    | DFT-s-OFDM QPSK      | 1@1   | 23.53                | 27.49     | 0.5610  |
| 2       | 15  | 5         | 381500 | 1907.5    | DFT-s-OFDM 16 QAM    | 1@1   | 22.35                | 26.31     | 0.4276  |
| 2       | 15  | 10        | 371000 | 1855      | DFT-s-OFDM QPSK      | 1@1   | 23.18                | 27.14     | 0.5176  |
| 2       | 15  | 10        | 371000 | 1855      | DFT-s-OFDM 16 QAM    | 1@1   | 22.1                 | 26.06     | 0.4036  |
| 2       | 15  | 10        | 376000 | 1880      | DFT-s-OFDM QPSK      | 1@1   | 23.52                | 27.48     | 0.5598  |
| 2       | 15  | 10        | 376000 | 1880      | DFT-s-OFDM 16 QAM    | 1@1   | 22.6                 | 26.56     | 0.4529  |
| 2       | 15  | 10        | 381000 | 1905      | DFT-s-OFDM QPSK      | 1@1   | 23.45                | 27.41     | 0.5508  |
| 2       | 15  | 10        | 381000 | 1905      | DFT-s-OFDM 16 QAM    | 1@1   | 22.46                | 26.42     | 0.4385  |
| 2       | 15  | 15        | 371500 | 1857.5    | DFT-s-OFDM QPSK      | 1@1   | 23.22                | 27.18     | 0.5224  |
| 2       | 15  | 15        | 371500 | 1857.5    | DFT-s-OFDM 16 QAM    | 1@1   | 22.24                | 26.2      | 0.4169  |
| 2       | 15  | 15        | 376000 | 1880      | DFT-s-OFDM QPSK      | 1@1   | 23.43                | 27.39     | 0.5483  |
| 2       | 15  | 15        | 376000 | 1880      | DFT-s-OFDM 16 QAM    | 1@1   | 22.32                | 26.28     | 0.4246  |
| 2       | 15  | 15        | 380500 | 1902.5    | DFT-s-OFDM QPSK      | 1@1   | 23.49                | 27.45     | 0.5559  |
| 2       | 15  | 15        | 380500 | 1902.5    | DFT-s-OFDM 16 QAM    | 1@1   | 22.4                 | 26.36     | 0.4325  |
| 2       | 15  | 20        | 372000 | 1860      | DFT-s-OFDM PI/2 BPSK | 50@25 | 23.26                | 27.22     | 0.5272  |
| 2       | 15  | 20        | 372000 | 1860      | DFT-s-OFDM PI/2 BPSK | 1@1   | 23.18                | 27.14     | 0.5176  |
| 2       | 15  | 20        | 372000 | 1860      | DFT-s-OFDM PI/2 BPSK | 1@104 | 23.34                | 27.3      | 0.5370  |
| 2       | 15  | 20        | 372000 | 1860      | DFT-s-OFDM QPSK      | 50@25 | 23.35                | 27.31     | 0.5383  |
| 2       | 15  | 20        | 372000 | 1860      | DFT-s-OFDM QPSK      | 1@1   | 23.31                | 27.27     | 0.5333  |
| 2       | 15  | 20        | 372000 | 1860      | DFT-s-OFDM QPSK      | 1@104 | 23.43                | 27.39     | 0.5483  |
| 2       | 15  | 20        | 372000 | 1860      | DFT-s-OFDM 16 QAM    | 50@25 | 22.54                | 26.5      | 0.4467  |
| 2       | 15  | 20        | 372000 | 1860      | DFT-s-OFDM 16 QAM    | 1@1   | 22.25                | 26.21     | 0.4178  |
| 2       | 15  | 20        | 372000 | 1860      | DFT-s-OFDM 16 QAM    | 1@104 | 22.24                | 26.2      | 0.4169  |
| 2       | 15  | 20        | 372000 | 1860      | DFT-s-OFDM 64 QAM    | 50@25 | 21.16                | 25.12     | 0.3251  |
| 2       | 15  | 20        | 372000 | 1860      | DFT-s-OFDM 64 QAM    | 1@1   | 21.04                | 25        | 0.3162  |
| 2       | 15  | 20        | 372000 | 1860      | DFT-s-OFDM 64 QAM    | 1@104 | 21.24                | 25.2      | 0.3311  |
| 2       | 15  | 20        | 372000 | 1860      | DFT-s-OFDM 256 QAM   | 50@25 | 19.05                | 23.01     | 0.2000  |
| 2       | 15  | 20        | 372000 | 1860      | DFT-s-OFDM 256 QAM   | 1@1   | 18.54                | 22.5      | 0.1778  |
| 2       | 15  | 20        | 372000 | 1860      | DFT-s-OFDM 256 QAM   | 1@104 | 18.51                | 22.47     | 0.1766  |
| 2       | 15  | 20        | 372000 | 1860      | CP-OFDM QPSK         | 53@26 | 21.93                | 25.89     | 0.3882  |
| 2       | 15  | 20        | 372000 | 1860      | CP-OFDM QPSK         | 1@1   | 22.01                | 25.97     | 0.3954  |
| 2       | 15  | 20        | 372000 | 1860      | CP-OFDM QPSK         | 1@104 | 22.06                | 26.02     | 0.3999  |



|   |    |    |        |      |                      |       |       |       |        |
|---|----|----|--------|------|----------------------|-------|-------|-------|--------|
| 2 | 15 | 20 | 376000 | 1880 | DFT-s-OFDM PI/2 BPSK | 50@25 | 23.51 | 27.47 | 0.5585 |
| 2 | 15 | 20 | 376000 | 1880 | DFT-s-OFDM PI/2 BPSK | 1@1   | 23.21 | 27.17 | 0.5212 |
| 2 | 15 | 20 | 376000 | 1880 | DFT-s-OFDM PI/2 BPSK | 1@104 | 23.41 | 27.37 | 0.5458 |
| 2 | 15 | 20 | 376000 | 1880 | DFT-s-OFDM QPSK      | 50@25 | 23.57 | 27.53 | 0.5662 |
| 2 | 15 | 20 | 376000 | 1880 | DFT-s-OFDM QPSK      | 1@1   | 23.39 | 27.35 | 0.5433 |
| 2 | 15 | 20 | 376000 | 1880 | DFT-s-OFDM QPSK      | 1@104 | 23.52 | 27.48 | 0.5598 |
| 2 | 15 | 20 | 376000 | 1880 | DFT-s-OFDM 16 QAM    | 50@25 | 22.74 | 26.7  | 0.4677 |
| 2 | 15 | 20 | 376000 | 1880 | DFT-s-OFDM 16 QAM    | 1@1   | 22.3  | 26.26 | 0.4227 |
| 2 | 15 | 20 | 376000 | 1880 | DFT-s-OFDM 16 QAM    | 1@104 | 22.39 | 26.35 | 0.4315 |
| 2 | 15 | 20 | 376000 | 1880 | DFT-s-OFDM 64 QAM    | 50@25 | 21.33 | 25.29 | 0.3381 |
| 2 | 15 | 20 | 376000 | 1880 | DFT-s-OFDM 64 QAM    | 1@1   | 21.36 | 25.32 | 0.3404 |
| 2 | 15 | 20 | 376000 | 1880 | DFT-s-OFDM 64 QAM    | 1@104 | 21.35 | 25.31 | 0.3396 |
| 2 | 15 | 20 | 376000 | 1880 | DFT-s-OFDM 256 QAM   | 50@25 | 19.2  | 23.16 | 0.2070 |
| 2 | 15 | 20 | 376000 | 1880 | DFT-s-OFDM 256 QAM   | 1@1   | 18.59 | 22.55 | 0.1799 |
| 2 | 15 | 20 | 376000 | 1880 | DFT-s-OFDM 256 QAM   | 1@104 | 18.71 | 22.67 | 0.1849 |
| 2 | 15 | 20 | 376000 | 1880 | CP-OFDM QPSK         | 53@26 | 22.19 | 26.15 | 0.4121 |
| 2 | 15 | 20 | 376000 | 1880 | CP-OFDM QPSK         | 1@1   | 22.35 | 26.31 | 0.4276 |
| 2 | 15 | 20 | 376000 | 1880 | CP-OFDM QPSK         | 1@104 | 22.21 | 26.17 | 0.4140 |
| 2 | 15 | 20 | 380000 | 1900 | DFT-s-OFDM PI/2 BPSK | 50@25 | 23.53 | 27.49 | 0.5610 |
| 2 | 15 | 20 | 380000 | 1900 | DFT-s-OFDM PI/2 BPSK | 1@1   | 23.33 | 27.29 | 0.5358 |
| 2 | 15 | 20 | 380000 | 1900 | DFT-s-OFDM PI/2 BPSK | 1@104 | 23.43 | 27.39 | 0.5483 |
| 2 | 15 | 20 | 380000 | 1900 | DFT-s-OFDM QPSK      | 50@25 | 23.6  | 27.56 | 0.5702 |
| 2 | 15 | 20 | 380000 | 1900 | DFT-s-OFDM QPSK      | 1@1   | 23.63 | 27.59 | 0.5741 |
| 2 | 15 | 20 | 380000 | 1900 | DFT-s-OFDM QPSK      | 1@104 | 23.56 | 27.52 | 0.5649 |
| 2 | 15 | 20 | 380000 | 1900 | DFT-s-OFDM 16 QAM    | 50@25 | 22.87 | 26.83 | 0.4819 |
| 2 | 15 | 20 | 380000 | 1900 | DFT-s-OFDM 16 QAM    | 1@1   | 22.47 | 26.43 | 0.4395 |
| 2 | 15 | 20 | 380000 | 1900 | DFT-s-OFDM 16 QAM    | 1@104 | 22.44 | 26.4  | 0.4365 |
| 2 | 15 | 20 | 380000 | 1900 | DFT-s-OFDM 64 QAM    | 50@25 | 21.42 | 25.38 | 0.3451 |
| 2 | 15 | 20 | 380000 | 1900 | DFT-s-OFDM 64 QAM    | 1@1   | 21.47 | 25.43 | 0.3491 |
| 2 | 15 | 20 | 380000 | 1900 | DFT-s-OFDM 64 QAM    | 1@104 | 21.32 | 25.28 | 0.3373 |
| 2 | 15 | 20 | 380000 | 1900 | DFT-s-OFDM 256 QAM   | 50@25 | 19.26 | 23.22 | 0.2099 |
| 2 | 15 | 20 | 380000 | 1900 | DFT-s-OFDM 256 QAM   | 1@1   | 18.55 | 22.51 | 0.1782 |
| 2 | 15 | 20 | 380000 | 1900 | DFT-s-OFDM 256 QAM   | 1@104 | 18.72 | 22.68 | 0.1854 |
| 2 | 15 | 20 | 380000 | 1900 | CP-OFDM QPSK         | 53@26 | 22.25 | 26.21 | 0.4178 |
| 2 | 15 | 20 | 380000 | 1900 | CP-OFDM QPSK         | 1@1   | 22.52 | 26.48 | 0.4446 |
| 2 | 15 | 20 | 380000 | 1900 | CP-OFDM QPSK         | 1@104 | 22.36 | 26.32 | 0.4285 |



## 5GNR N5

## Transmitter Conducted Output Power And ERP, (GT - LC)=1.32db

| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation           | RB    | Conducted Power(dBm) | ERP(dBm) | ERP(W) |
|---------|-----|-----------|--------|-----------|----------------------|-------|----------------------|----------|--------|
| 5       | 15  | 5         | 165300 | 826.5     | DFT-s-OFDM QPSK      | 1@1   | 23.75                | 22.92    | 0.1959 |
| 5       | 15  | 5         | 165300 | 826.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.84                | 22.01    | 0.1589 |
| 5       | 15  | 5         | 167300 | 836.5     | DFT-s-OFDM QPSK      | 1@1   | 23.49                | 22.66    | 0.1845 |
| 5       | 15  | 5         | 167300 | 836.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.66                | 21.83    | 0.1524 |
| 5       | 15  | 5         | 169300 | 846.5     | DFT-s-OFDM QPSK      | 1@1   | 23.4                 | 22.57    | 0.1807 |
| 5       | 15  | 5         | 169300 | 846.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.57                | 21.74    | 0.1493 |
| 5       | 15  | 10        | 165800 | 829       | DFT-s-OFDM QPSK      | 1@1   | 23.64                | 22.81    | 0.1910 |
| 5       | 15  | 10        | 165800 | 829       | DFT-s-OFDM 16 QAM    | 1@1   | 22.69                | 21.86    | 0.1535 |
| 5       | 15  | 10        | 167300 | 836.5     | DFT-s-OFDM QPSK      | 1@1   | 23.57                | 22.74    | 0.1879 |
| 5       | 15  | 10        | 167300 | 836.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.64                | 21.81    | 0.1517 |
| 5       | 15  | 10        | 168800 | 844       | DFT-s-OFDM QPSK      | 1@1   | 23.34                | 22.51    | 0.1782 |
| 5       | 15  | 10        | 168800 | 844       | DFT-s-OFDM 16 QAM    | 1@1   | 22.48                | 21.65    | 0.1462 |
| 5       | 15  | 15        | 166300 | 831.5     | DFT-s-OFDM QPSK      | 1@1   | 23.75                | 22.92    | 0.1959 |
| 5       | 15  | 15        | 166300 | 831.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.78                | 21.95    | 0.1567 |
| 5       | 15  | 15        | 167300 | 836.5     | DFT-s-OFDM QPSK      | 1@1   | 23.75                | 22.92    | 0.1959 |
| 5       | 15  | 15        | 167300 | 836.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.8                 | 21.97    | 0.1574 |
| 5       | 15  | 15        | 168300 | 841.5     | DFT-s-OFDM QPSK      | 1@1   | 23.53                | 22.7     | 0.1862 |
| 5       | 15  | 15        | 168300 | 841.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.63                | 21.8     | 0.1514 |
| 5       | 15  | 20        | 166800 | 834       | DFT-s-OFDM PI/2 BPSK | 50@25 | 23.6                 | 22.77    | 0.1892 |
| 5       | 15  | 20        | 166800 | 834       | DFT-s-OFDM PI/2 BPSK | 1@1   | 23.6                 | 22.77    | 0.1892 |
| 5       | 15  | 20        | 166800 | 834       | DFT-s-OFDM PI/2 BPSK | 1@104 | 23.26                | 22.43    | 0.1750 |
| 5       | 15  | 20        | 166800 | 834       | DFT-s-OFDM QPSK      | 50@25 | 23.66                | 22.83    | 0.1919 |
| 5       | 15  | 20        | 166800 | 834       | DFT-s-OFDM QPSK      | 1@1   | 23.76                | 22.93    | 0.1963 |
| 5       | 15  | 20        | 166800 | 834       | DFT-s-OFDM QPSK      | 1@104 | 23.33                | 22.5     | 0.1778 |
| 5       | 15  | 20        | 166800 | 834       | DFT-s-OFDM 16 QAM    | 50@25 | 22.6                 | 21.77    | 0.1503 |
| 5       | 15  | 20        | 166800 | 834       | DFT-s-OFDM 16 QAM    | 1@1   | 22.8                 | 21.97    | 0.1574 |
| 5       | 15  | 20        | 166800 | 834       | DFT-s-OFDM 16 QAM    | 1@104 | 22.5                 | 21.67    | 0.1469 |
| 5       | 15  | 20        | 166800 | 834       | DFT-s-OFDM 64 QAM    | 50@25 | 21.22                | 20.39    | 0.1094 |
| 5       | 15  | 20        | 166800 | 834       | DFT-s-OFDM 64 QAM    | 1@1   | 21.36                | 20.53    | 0.1130 |
| 5       | 15  | 20        | 166800 | 834       | DFT-s-OFDM 64 QAM    | 1@104 | 21.04                | 20.21    | 0.1050 |
| 5       | 15  | 20        | 166800 | 834       | DFT-s-OFDM 256 QAM   | 50@25 | 18.81                | 17.98    | 0.0628 |
| 5       | 15  | 20        | 166800 | 834       | DFT-s-OFDM 256 QAM   | 1@1   | 18.96                | 18.13    | 0.0650 |
| 5       | 15  | 20        | 166800 | 834       | DFT-s-OFDM 256 QAM   | 1@104 | 18.74                | 17.91    | 0.0618 |
| 5       | 15  | 20        | 166800 | 834       | CP-OFDM QPSK         | 53@26 | 22.15                | 21.32    | 0.1355 |
| 5       | 15  | 20        | 166800 | 834       | CP-OFDM QPSK         | 1@1   | 22.21                | 21.38    | 0.1374 |
| 5       | 15  | 20        | 166800 | 834       | CP-OFDM QPSK         | 1@104 | 21.48                | 20.65    | 0.1161 |
| 5       | 15  | 20        | 167300 | 836.5     | DFT-s-OFDM PI/2 BPSK | 50@25 | 23.62                | 22.79    | 0.1901 |
| 5       | 15  | 20        | 167300 | 836.5     | DFT-s-OFDM PI/2 BPSK | 1@1   | 23.53                | 22.7     | 0.1862 |
| 5       | 15  | 20        | 167300 | 836.5     | DFT-s-OFDM PI/2 BPSK | 1@104 | 23.11                | 22.28    | 0.1690 |
| 5       | 15  | 20        | 167300 | 836.5     | DFT-s-OFDM QPSK      | 50@25 | 23.67                | 22.84    | 0.1923 |
| 5       | 15  | 20        | 167300 | 836.5     | DFT-s-OFDM QPSK      | 1@1   | 23.58                | 22.75    | 0.1884 |



|   |    |    |        |       |                      |       |       |       |        |
|---|----|----|--------|-------|----------------------|-------|-------|-------|--------|
| 5 | 15 | 20 | 167300 | 836.5 | DFT-s-OFDM QPSK      | 1@104 | 23.29 | 22.46 | 0.1762 |
| 5 | 15 | 20 | 167300 | 836.5 | DFT-s-OFDM 16 QAM    | 50@25 | 22.59 | 21.76 | 0.1500 |
| 5 | 15 | 20 | 167300 | 836.5 | DFT-s-OFDM 16 QAM    | 1@1   | 22.76 | 21.93 | 0.1560 |
| 5 | 15 | 20 | 167300 | 836.5 | DFT-s-OFDM 16 QAM    | 1@104 | 22.34 | 21.51 | 0.1416 |
| 5 | 15 | 20 | 167300 | 836.5 | DFT-s-OFDM 64 QAM    | 50@25 | 21.18 | 20.35 | 0.1084 |
| 5 | 15 | 20 | 167300 | 836.5 | DFT-s-OFDM 64 QAM    | 1@1   | 21.31 | 20.48 | 0.1117 |
| 5 | 15 | 20 | 167300 | 836.5 | DFT-s-OFDM 64 QAM    | 1@104 | 20.98 | 20.15 | 0.1035 |
| 5 | 15 | 20 | 167300 | 836.5 | DFT-s-OFDM 256 QAM   | 50@25 | 18.73 | 17.9  | 0.0617 |
| 5 | 15 | 20 | 167300 | 836.5 | DFT-s-OFDM 256 QAM   | 1@1   | 18.91 | 18.08 | 0.0643 |
| 5 | 15 | 20 | 167300 | 836.5 | DFT-s-OFDM 256 QAM   | 1@104 | 18.62 | 17.79 | 0.0601 |
| 5 | 15 | 20 | 167300 | 836.5 | CP-OFDM QPSK         | 53@26 | 22.16 | 21.33 | 0.1358 |
| 5 | 15 | 20 | 167300 | 836.5 | CP-OFDM QPSK         | 1@1   | 22.17 | 21.34 | 0.1361 |
| 5 | 15 | 20 | 167300 | 836.5 | CP-OFDM QPSK         | 1@104 | 21.39 | 20.56 | 0.1138 |
| 5 | 15 | 20 | 167800 | 839   | DFT-s-OFDM PI/2 BPSK | 50@25 | 23.53 | 22.7  | 0.1862 |
| 5 | 15 | 20 | 167800 | 839   | DFT-s-OFDM PI/2 BPSK | 1@1   | 23.52 | 22.69 | 0.1858 |
| 5 | 15 | 20 | 167800 | 839   | DFT-s-OFDM PI/2 BPSK | 1@104 | 23.15 | 22.32 | 0.1706 |
| 5 | 15 | 20 | 167800 | 839   | DFT-s-OFDM QPSK      | 50@25 | 23.56 | 22.73 | 0.1875 |
| 5 | 15 | 20 | 167800 | 839   | DFT-s-OFDM QPSK      | 1@1   | 23.65 | 22.82 | 0.1914 |
| 5 | 15 | 20 | 167800 | 839   | DFT-s-OFDM QPSK      | 1@104 | 23.2  | 22.37 | 0.1726 |
| 5 | 15 | 20 | 167800 | 839   | DFT-s-OFDM 16 QAM    | 50@25 | 22.56 | 21.73 | 0.1489 |
| 5 | 15 | 20 | 167800 | 839   | DFT-s-OFDM 16 QAM    | 1@1   | 22.75 | 21.92 | 0.1556 |
| 5 | 15 | 20 | 167800 | 839   | DFT-s-OFDM 16 QAM    | 1@104 | 22.35 | 21.52 | 0.1419 |
| 5 | 15 | 20 | 167800 | 839   | DFT-s-OFDM 64 QAM    | 50@25 | 21.09 | 20.26 | 0.1062 |
| 5 | 15 | 20 | 167800 | 839   | DFT-s-OFDM 64 QAM    | 1@1   | 21.37 | 20.54 | 0.1132 |
| 5 | 15 | 20 | 167800 | 839   | DFT-s-OFDM 64 QAM    | 1@104 | 21.02 | 20.19 | 0.1045 |
| 5 | 15 | 20 | 167800 | 839   | DFT-s-OFDM 256 QAM   | 50@25 | 19.07 | 18.24 | 0.0667 |
| 5 | 15 | 20 | 167800 | 839   | DFT-s-OFDM 256 QAM   | 1@1   | 18.97 | 18.14 | 0.0652 |
| 5 | 15 | 20 | 167800 | 839   | DFT-s-OFDM 256 QAM   | 1@104 | 18.64 | 17.81 | 0.0604 |
| 5 | 15 | 20 | 167800 | 839   | CP-OFDM QPSK         | 53@26 | 22.05 | 21.22 | 0.1324 |
| 5 | 15 | 20 | 167800 | 839   | CP-OFDM QPSK         | 1@1   | 22.19 | 21.36 | 0.1368 |
| 5 | 15 | 20 | 167800 | 839   | CP-OFDM QPSK         | 1@104 | 21.82 | 20.99 | 0.1256 |



## 5GNR N7

## Transmitter Conducted Output Power And EIRP, (GT - LC)=2.32db

| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation           | RB     | Conducted Power(dBm) | EIRP(dBm) | EIRP(W) |
|---------|-----|-----------|--------|-----------|----------------------|--------|----------------------|-----------|---------|
| 7       | 15  | 5         | 500500 | 2502.5    | DFT-s-OFDM QPSK      | 1@1    | 23.59                | 25.91     | 0.3899  |
| 7       | 15  | 5         | 500500 | 2502.5    | DFT-s-OFDM 16 QAM    | 1@1    | 22.8                 | 25.12     | 0.3251  |
| 7       | 15  | 5         | 507000 | 2535      | DFT-s-OFDM QPSK      | 1@1    | 23.42                | 25.74     | 0.3750  |
| 7       | 15  | 5         | 507000 | 2535      | DFT-s-OFDM 16 QAM    | 1@1    | 22.42                | 24.74     | 0.2979  |
| 7       | 15  | 5         | 513500 | 2567.5    | DFT-s-OFDM QPSK      | 1@1    | 23.52                | 25.84     | 0.3837  |
| 7       | 15  | 5         | 513500 | 2567.5    | DFT-s-OFDM 16 QAM    | 1@1    | 22.51                | 24.83     | 0.3041  |
| 7       | 15  | 10        | 501000 | 2505      | DFT-s-OFDM QPSK      | 1@1    | 23.61                | 25.93     | 0.3917  |
| 7       | 15  | 10        | 501000 | 2505      | DFT-s-OFDM 16 QAM    | 1@1    | 22.67                | 24.99     | 0.3155  |
| 7       | 15  | 10        | 507000 | 2535      | DFT-s-OFDM QPSK      | 1@1    | 23.37                | 25.69     | 0.3707  |
| 7       | 15  | 10        | 507000 | 2535      | DFT-s-OFDM 16 QAM    | 1@1    | 22.43                | 24.75     | 0.2985  |
| 7       | 15  | 10        | 513000 | 2565      | DFT-s-OFDM QPSK      | 1@1    | 23.51                | 25.83     | 0.3828  |
| 7       | 15  | 10        | 513000 | 2565      | DFT-s-OFDM 16 QAM    | 1@1    | 22.49                | 24.81     | 0.3027  |
| 7       | 15  | 15        | 501500 | 2507.5    | DFT-s-OFDM QPSK      | 1@1    | 23.81                | 26.13     | 0.4102  |
| 7       | 15  | 15        | 501500 | 2507.5    | DFT-s-OFDM 16 QAM    | 1@1    | 22.92                | 25.24     | 0.3342  |
| 7       | 15  | 15        | 507000 | 2535      | DFT-s-OFDM QPSK      | 1@1    | 23.66                | 25.98     | 0.3963  |
| 7       | 15  | 15        | 507000 | 2535      | DFT-s-OFDM 16 QAM    | 1@1    | 22.7                 | 25.02     | 0.3177  |
| 7       | 15  | 15        | 512500 | 2562.5    | DFT-s-OFDM QPSK      | 1@1    | 23.79                | 26.11     | 0.4083  |
| 7       | 15  | 15        | 512500 | 2562.5    | DFT-s-OFDM 16 QAM    | 1@1    | 22.74                | 25.06     | 0.3206  |
| 7       | 15  | 20        | 502000 | 2510      | DFT-s-OFDM QPSK      | 1@1    | 23.7                 | 26.02     | 0.3999  |
| 7       | 15  | 20        | 502000 | 2510      | DFT-s-OFDM 16 QAM    | 1@1    | 22.92                | 25.24     | 0.3342  |
| 7       | 15  | 20        | 507000 | 2535      | DFT-s-OFDM QPSK      | 1@1    | 23.7                 | 26.02     | 0.3999  |
| 7       | 15  | 20        | 507000 | 2535      | DFT-s-OFDM 16 QAM    | 1@1    | 22.76                | 25.08     | 0.3221  |
| 7       | 15  | 20        | 512000 | 2560      | DFT-s-OFDM QPSK      | 1@1    | 23.64                | 25.96     | 0.3945  |
| 7       | 15  | 20        | 512000 | 2560      | DFT-s-OFDM 16 QAM    | 1@1    | 22.7                 | 25.02     | 0.3177  |
| 7       | 15  | 25        | 502500 | 2512.5    | DFT-s-OFDM QPSK      | 1@1    | 23.81                | 26.13     | 0.4102  |
| 7       | 15  | 25        | 502500 | 2512.5    | DFT-s-OFDM 16 QAM    | 1@1    | 23.16                | 25.48     | 0.3532  |
| 7       | 15  | 25        | 507000 | 2535      | DFT-s-OFDM QPSK      | 1@1    | 23.78                | 26.1      | 0.4074  |
| 7       | 15  | 25        | 507000 | 2535      | DFT-s-OFDM 16 QAM    | 1@1    | 22.98                | 25.3      | 0.3388  |
| 7       | 15  | 25        | 511500 | 2557.5    | DFT-s-OFDM QPSK      | 1@1    | 23.82                | 26.14     | 0.4111  |
| 7       | 15  | 25        | 511500 | 2557.5    | DFT-s-OFDM 16 QAM    | 1@1    | 22.84                | 25.16     | 0.3281  |
| 7       | 15  | 30        | 503000 | 2515      | DFT-s-OFDM QPSK      | 1@1    | 23.82                | 26.14     | 0.4111  |
| 7       | 15  | 30        | 503000 | 2515      | DFT-s-OFDM 16 QAM    | 1@1    | 22.87                | 25.19     | 0.3304  |
| 7       | 15  | 30        | 507000 | 2535      | DFT-s-OFDM QPSK      | 1@1    | 23.61                | 25.93     | 0.3917  |
| 7       | 15  | 30        | 507000 | 2535      | DFT-s-OFDM 16 QAM    | 1@1    | 22.8                 | 25.12     | 0.3251  |
| 7       | 15  | 30        | 511000 | 2555      | DFT-s-OFDM QPSK      | 1@1    | 23.57                | 25.89     | 0.3882  |
| 7       | 15  | 30        | 511000 | 2555      | DFT-s-OFDM 16 QAM    | 1@1    | 22.62                | 24.94     | 0.3119  |
| 7       | 15  | 40        | 504000 | 2520      | DFT-s-OFDM PI/2 BPSK | 108@54 | 23.66                | 25.98     | 0.3963  |
| 7       | 15  | 40        | 504000 | 2520      | DFT-s-OFDM PI/2 BPSK | 1@1    | 23.63                | 25.95     | 0.3936  |
| 7       | 15  | 40        | 504000 | 2520      | DFT-s-OFDM PI/2 BPSK | 1@214  | 23.44                | 25.76     | 0.3767  |
| 7       | 15  | 40        | 504000 | 2520      | DFT-s-OFDM QPSK      | 108@54 | 23.65                | 25.97     | 0.3954  |
| 7       | 15  | 40        | 504000 | 2520      | DFT-s-OFDM QPSK      | 1@1    | 23.84                | 26.16     | 0.4130  |



|   |    |    |        |      |                      |        |       |       |        |
|---|----|----|--------|------|----------------------|--------|-------|-------|--------|
| 7 | 15 | 40 | 504000 | 2520 | DFT-s-OFDM QPSK      | 1@214  | 23.5  | 25.82 | 0.3819 |
| 7 | 15 | 40 | 504000 | 2520 | DFT-s-OFDM 16 QAM    | 108@54 | 22.76 | 25.08 | 0.3221 |
| 7 | 15 | 40 | 504000 | 2520 | DFT-s-OFDM 16 QAM    | 1@1    | 22.92 | 25.24 | 0.3342 |
| 7 | 15 | 40 | 504000 | 2520 | DFT-s-OFDM 16 QAM    | 1@214  | 22.71 | 25.03 | 0.3184 |
| 7 | 15 | 40 | 504000 | 2520 | DFT-s-OFDM 64 QAM    | 108@54 | 21.28 | 23.6  | 0.2291 |
| 7 | 15 | 40 | 504000 | 2520 | DFT-s-OFDM 64 QAM    | 1@1    | 21.53 | 23.85 | 0.2427 |
| 7 | 15 | 40 | 504000 | 2520 | DFT-s-OFDM 64 QAM    | 1@214  | 21.3  | 23.62 | 0.2301 |
| 7 | 15 | 40 | 504000 | 2520 | DFT-s-OFDM 256 QAM   | 108@54 | 19.24 | 21.56 | 0.1432 |
| 7 | 15 | 40 | 504000 | 2520 | DFT-s-OFDM 256 QAM   | 1@1    | 19.01 | 21.33 | 0.1358 |
| 7 | 15 | 40 | 504000 | 2520 | DFT-s-OFDM 256 QAM   | 1@214  | 18.87 | 21.19 | 0.1315 |
| 7 | 15 | 40 | 504000 | 2520 | CP-OFDM QPSK         | 108@54 | 22.21 | 24.53 | 0.2838 |
| 7 | 15 | 40 | 504000 | 2520 | CP-OFDM QPSK         | 1@1    | 22.23 | 24.55 | 0.2851 |
| 7 | 15 | 40 | 504000 | 2520 | CP-OFDM QPSK         | 1@214  | 22.06 | 24.38 | 0.2742 |
| 7 | 15 | 40 | 507000 | 2535 | DFT-s-OFDM PI/2 BPSK | 108@54 | 23.51 | 25.83 | 0.3828 |
| 7 | 15 | 40 | 507000 | 2535 | DFT-s-OFDM PI/2 BPSK | 1@1    | 23.6  | 25.92 | 0.3908 |
| 7 | 15 | 40 | 507000 | 2535 | DFT-s-OFDM PI/2 BPSK | 1@214  | 23.32 | 25.64 | 0.3664 |
| 7 | 15 | 40 | 507000 | 2535 | DFT-s-OFDM QPSK      | 108@54 | 23.5  | 25.82 | 0.3819 |
| 7 | 15 | 40 | 507000 | 2535 | DFT-s-OFDM QPSK      | 1@1    | 23.62 | 25.94 | 0.3926 |
| 7 | 15 | 40 | 507000 | 2535 | DFT-s-OFDM QPSK      | 1@214  | 23.46 | 25.78 | 0.3784 |
| 7 | 15 | 40 | 507000 | 2535 | DFT-s-OFDM 16 QAM    | 108@54 | 22.57 | 24.89 | 0.3083 |
| 7 | 15 | 40 | 507000 | 2535 | DFT-s-OFDM 16 QAM    | 1@1    | 22.87 | 25.19 | 0.3304 |
| 7 | 15 | 40 | 507000 | 2535 | DFT-s-OFDM 16 QAM    | 1@214  | 22.65 | 24.97 | 0.3141 |
| 7 | 15 | 40 | 507000 | 2535 | DFT-s-OFDM 64 QAM    | 108@54 | 21.08 | 23.4  | 0.2188 |
| 7 | 15 | 40 | 507000 | 2535 | DFT-s-OFDM 64 QAM    | 1@1    | 21.25 | 23.57 | 0.2275 |
| 7 | 15 | 40 | 507000 | 2535 | DFT-s-OFDM 64 QAM    | 1@214  | 21.21 | 23.53 | 0.2254 |
| 7 | 15 | 40 | 507000 | 2535 | DFT-s-OFDM 256 QAM   | 108@54 | 19.02 | 21.34 | 0.1361 |
| 7 | 15 | 40 | 507000 | 2535 | DFT-s-OFDM 256 QAM   | 1@1    | 19.01 | 21.33 | 0.1358 |
| 7 | 15 | 40 | 507000 | 2535 | DFT-s-OFDM 256 QAM   | 1@214  | 18.91 | 21.23 | 0.1327 |
| 7 | 15 | 40 | 507000 | 2535 | CP-OFDM QPSK         | 108@54 | 21.94 | 24.26 | 0.2667 |
| 7 | 15 | 40 | 507000 | 2535 | CP-OFDM QPSK         | 1@1    | 22.18 | 24.5  | 0.2818 |
| 7 | 15 | 40 | 507000 | 2535 | CP-OFDM QPSK         | 1@214  | 21.58 | 23.9  | 0.2455 |
| 7 | 15 | 40 | 510000 | 2550 | DFT-s-OFDM PI/2 BPSK | 108@54 | 23.59 | 25.91 | 0.3899 |
| 7 | 15 | 40 | 510000 | 2550 | DFT-s-OFDM PI/2 BPSK | 1@1    | 23.49 | 25.81 | 0.3811 |
| 7 | 15 | 40 | 510000 | 2550 | DFT-s-OFDM PI/2 BPSK | 1@214  | 23.53 | 25.85 | 0.3846 |
| 7 | 15 | 40 | 510000 | 2550 | DFT-s-OFDM QPSK      | 108@54 | 23.51 | 25.83 | 0.3828 |
| 7 | 15 | 40 | 510000 | 2550 | DFT-s-OFDM QPSK      | 1@1    | 23.58 | 25.9  | 0.3890 |
| 7 | 15 | 40 | 510000 | 2550 | DFT-s-OFDM QPSK      | 1@214  | 23.6  | 25.92 | 0.3908 |
| 7 | 15 | 40 | 510000 | 2550 | DFT-s-OFDM 16 QAM    | 108@54 | 22.64 | 24.96 | 0.3133 |
| 7 | 15 | 40 | 510000 | 2550 | DFT-s-OFDM 16 QAM    | 1@1    | 22.78 | 25.1  | 0.3236 |
| 7 | 15 | 40 | 510000 | 2550 | DFT-s-OFDM 16 QAM    | 1@214  | 22.71 | 25.03 | 0.3184 |
| 7 | 15 | 40 | 510000 | 2550 | DFT-s-OFDM 64 QAM    | 108@54 | 21.12 | 23.44 | 0.2208 |
| 7 | 15 | 40 | 510000 | 2550 | DFT-s-OFDM 64 QAM    | 1@1    | 21.3  | 23.62 | 0.2301 |
| 7 | 15 | 40 | 510000 | 2550 | DFT-s-OFDM 64 QAM    | 1@214  | 21.18 | 23.5  | 0.2239 |
| 7 | 15 | 40 | 510000 | 2550 | DFT-s-OFDM 256 QAM   | 108@54 | 19.1  | 21.42 | 0.1387 |
| 7 | 15 | 40 | 510000 | 2550 | DFT-s-OFDM 256 QAM   | 1@1    | 18.92 | 21.24 | 0.1330 |



|   |    |    |        |      |                    |        |       |       |        |
|---|----|----|--------|------|--------------------|--------|-------|-------|--------|
| 7 | 15 | 40 | 510000 | 2550 | DFT-s-OFDM 256 QAM | 1@214  | 18.96 | 21.28 | 0.1343 |
| 7 | 15 | 40 | 510000 | 2550 | CP-OFDM QPSK       | 108@54 | 22.1  | 24.42 | 0.2767 |
| 7 | 15 | 40 | 510000 | 2550 | CP-OFDM QPSK       | 1@1    | 22.16 | 24.48 | 0.2805 |
| 7 | 15 | 40 | 510000 | 2550 | CP-OFDM QPSK       | 1@214  | 22.11 | 24.43 | 0.2773 |



## 5GNR N12

## Transmitter Conducted Output Power And ERP, (GT - LC)=1.78db

| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation           | RB    | Conducted Power(dBm) | ERP(dBm) | ERP(W) |
|---------|-----|-----------|--------|-----------|----------------------|-------|----------------------|----------|--------|
| 12      | 15  | 5         | 140300 | 701.5     | DFT-s-OFDM QPSK      | 1@1   | 23.66                | 23.29    | 0.2133 |
| 12      | 15  | 5         | 140300 | 701.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.83                | 22.46    | 0.1762 |
| 12      | 15  | 5         | 141500 | 707.5     | DFT-s-OFDM QPSK      | 1@1   | 23.61                | 23.24    | 0.2109 |
| 12      | 15  | 5         | 141500 | 707.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.71                | 22.34    | 0.1714 |
| 12      | 15  | 5         | 142700 | 713.5     | DFT-s-OFDM QPSK      | 1@1   | 23.76                | 23.39    | 0.2183 |
| 12      | 15  | 5         | 142700 | 713.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.58                | 22.21    | 0.1663 |
| 12      | 15  | 10        | 140800 | 704       | DFT-s-OFDM QPSK      | 1@1   | 23.76                | 23.39    | 0.2183 |
| 12      | 15  | 10        | 140800 | 704       | DFT-s-OFDM 16 QAM    | 1@1   | 22.78                | 22.41    | 0.1742 |
| 12      | 15  | 10        | 141500 | 707.5     | DFT-s-OFDM QPSK      | 1@1   | 23.83                | 23.46    | 0.2218 |
| 12      | 15  | 10        | 141500 | 707.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.83                | 22.46    | 0.1762 |
| 12      | 15  | 10        | 142200 | 711       | DFT-s-OFDM QPSK      | 1@1   | 23.66                | 23.29    | 0.2133 |
| 12      | 15  | 10        | 142200 | 711       | DFT-s-OFDM 16 QAM    | 1@1   | 22.77                | 22.4     | 0.1738 |
| 12      | 15  | 15        | 141300 | 706.5     | DFT-s-OFDM PI/2 BPSK | 36@18 | 23.9                 | 23.53    | 0.2254 |
| 12      | 15  | 15        | 141300 | 706.5     | DFT-s-OFDM PI/2 BPSK | 1@1   | 23.73                | 23.36    | 0.2168 |
| 12      | 15  | 15        | 141300 | 706.5     | DFT-s-OFDM PI/2 BPSK | 1@77  | 23.56                | 23.19    | 0.2084 |
| 12      | 15  | 15        | 141300 | 706.5     | DFT-s-OFDM QPSK      | 36@18 | 23.8                 | 23.43    | 0.2203 |
| 12      | 15  | 15        | 141300 | 706.5     | DFT-s-OFDM QPSK      | 1@1   | 23.91                | 23.54    | 0.2259 |
| 12      | 15  | 15        | 141300 | 706.5     | DFT-s-OFDM QPSK      | 1@77  | 23.67                | 23.3     | 0.2138 |
| 12      | 15  | 15        | 141300 | 706.5     | DFT-s-OFDM 16 QAM    | 36@18 | 22.86                | 22.49    | 0.1774 |
| 12      | 15  | 15        | 141300 | 706.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.99                | 22.62    | 0.1828 |
| 12      | 15  | 15        | 141300 | 706.5     | DFT-s-OFDM 16 QAM    | 1@77  | 22.78                | 22.41    | 0.1742 |
| 12      | 15  | 15        | 141300 | 706.5     | DFT-s-OFDM 64 QAM    | 36@18 | 21.33                | 20.96    | 0.1247 |
| 12      | 15  | 15        | 141300 | 706.5     | DFT-s-OFDM 64 QAM    | 1@1   | 21.66                | 21.29    | 0.1346 |
| 12      | 15  | 15        | 141300 | 706.5     | DFT-s-OFDM 64 QAM    | 1@77  | 21.35                | 20.98    | 0.1253 |
| 12      | 15  | 15        | 141300 | 706.5     | DFT-s-OFDM 256 QAM   | 36@18 | 19.28                | 18.91    | 0.0778 |
| 12      | 15  | 15        | 141300 | 706.5     | DFT-s-OFDM 256 QAM   | 1@1   | 19.2                 | 18.83    | 0.0764 |
| 12      | 15  | 15        | 141300 | 706.5     | DFT-s-OFDM 256 QAM   | 1@77  | 18.98                | 18.61    | 0.0726 |
| 12      | 15  | 15        | 141300 | 706.5     | CP-OFDM QPSK         | 39@19 | 22.34                | 21.97    | 0.1574 |
| 12      | 15  | 15        | 141300 | 706.5     | CP-OFDM QPSK         | 1@1   | 22.49                | 22.12    | 0.1629 |
| 12      | 15  | 15        | 141300 | 706.5     | CP-OFDM QPSK         | 1@77  | 22.22                | 21.85    | 0.1531 |
| 12      | 15  | 15        | 141500 | 707.5     | DFT-s-OFDM PI/2 BPSK | 36@18 | 23.88                | 23.51    | 0.2244 |
| 12      | 15  | 15        | 141500 | 707.5     | DFT-s-OFDM PI/2 BPSK | 1@1   | 23.75                | 23.38    | 0.2178 |
| 12      | 15  | 15        | 141500 | 707.5     | DFT-s-OFDM PI/2 BPSK | 1@77  | 23.54                | 23.17    | 0.2075 |
| 12      | 15  | 15        | 141500 | 707.5     | DFT-s-OFDM QPSK      | 36@18 | 23.81                | 23.44    | 0.2208 |
| 12      | 15  | 15        | 141500 | 707.5     | DFT-s-OFDM QPSK      | 1@1   | 23.74                | 23.37    | 0.2173 |
| 12      | 15  | 15        | 141500 | 707.5     | DFT-s-OFDM QPSK      | 1@77  | 23.44                | 23.07    | 0.2028 |
| 12      | 15  | 15        | 141500 | 707.5     | DFT-s-OFDM 16 QAM    | 36@18 | 22.85                | 22.48    | 0.1770 |
| 12      | 15  | 15        | 141500 | 707.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.94                | 22.57    | 0.1807 |
| 12      | 15  | 15        | 141500 | 707.5     | DFT-s-OFDM 16 QAM    | 1@77  | 22.68                | 22.31    | 0.1702 |
| 12      | 15  | 15        | 141500 | 707.5     | DFT-s-OFDM 64 QAM    | 36@18 | 21.38                | 21.01    | 0.1262 |
| 12      | 15  | 15        | 141500 | 707.5     | DFT-s-OFDM 64 QAM    | 1@1   | 21.54                | 21.17    | 0.1309 |



|    |    |    |        |       |                      |       |       |       |        |
|----|----|----|--------|-------|----------------------|-------|-------|-------|--------|
| 12 | 15 | 15 | 141500 | 707.5 | DFT-s-OFDM 64 QAM    | 1@77  | 21.3  | 20.93 | 0.1239 |
| 12 | 15 | 15 | 141500 | 707.5 | DFT-s-OFDM 256 QAM   | 36@18 | 19.07 | 18.7  | 0.0741 |
| 12 | 15 | 15 | 141500 | 707.5 | DFT-s-OFDM 256 QAM   | 1@1   | 19.18 | 18.81 | 0.0760 |
| 12 | 15 | 15 | 141500 | 707.5 | DFT-s-OFDM 256 QAM   | 1@77  | 18.89 | 18.52 | 0.0711 |
| 12 | 15 | 15 | 141500 | 707.5 | CP-OFDM QPSK         | 39@19 | 22.34 | 21.97 | 0.1574 |
| 12 | 15 | 15 | 141500 | 707.5 | CP-OFDM QPSK         | 1@1   | 22.4  | 22.03 | 0.1596 |
| 12 | 15 | 15 | 141500 | 707.5 | CP-OFDM QPSK         | 1@77  | 21.76 | 21.39 | 0.1377 |
| 12 | 15 | 15 | 141700 | 708.5 | DFT-s-OFDM PI/2 BPSK | 36@18 | 23.81 | 23.44 | 0.2208 |
| 12 | 15 | 15 | 141700 | 708.5 | DFT-s-OFDM PI/2 BPSK | 1@1   | 23.73 | 23.36 | 0.2168 |
| 12 | 15 | 15 | 141700 | 708.5 | DFT-s-OFDM PI/2 BPSK | 1@77  | 23.52 | 23.15 | 0.2065 |
| 12 | 15 | 15 | 141700 | 708.5 | DFT-s-OFDM QPSK      | 36@18 | 23.79 | 23.42 | 0.2198 |
| 12 | 15 | 15 | 141700 | 708.5 | DFT-s-OFDM QPSK      | 1@1   | 23.84 | 23.47 | 0.2223 |
| 12 | 15 | 15 | 141700 | 708.5 | DFT-s-OFDM QPSK      | 1@77  | 23.57 | 23.2  | 0.2089 |
| 12 | 15 | 15 | 141700 | 708.5 | DFT-s-OFDM 16 QAM    | 36@18 | 22.79 | 22.42 | 0.1746 |
| 12 | 15 | 15 | 141700 | 708.5 | DFT-s-OFDM 16 QAM    | 1@1   | 22.95 | 22.58 | 0.1811 |
| 12 | 15 | 15 | 141700 | 708.5 | DFT-s-OFDM 16 QAM    | 1@77  | 22.63 | 22.26 | 0.1683 |
| 12 | 15 | 15 | 141700 | 708.5 | DFT-s-OFDM 64 QAM    | 36@18 | 21.32 | 20.95 | 0.1245 |
| 12 | 15 | 15 | 141700 | 708.5 | DFT-s-OFDM 64 QAM    | 1@1   | 21.51 | 21.14 | 0.1300 |
| 12 | 15 | 15 | 141700 | 708.5 | DFT-s-OFDM 64 QAM    | 1@77  | 21.21 | 20.84 | 0.1213 |
| 12 | 15 | 15 | 141700 | 708.5 | DFT-s-OFDM 256 QAM   | 36@18 | 19.02 | 18.65 | 0.0733 |
| 12 | 15 | 15 | 141700 | 708.5 | DFT-s-OFDM 256 QAM   | 1@1   | 19.12 | 18.75 | 0.0750 |
| 12 | 15 | 15 | 141700 | 708.5 | DFT-s-OFDM 256 QAM   | 1@77  | 18.91 | 18.54 | 0.0714 |
| 12 | 15 | 15 | 141700 | 708.5 | CP-OFDM QPSK         | 39@19 | 22.32 | 21.95 | 0.1567 |
| 12 | 15 | 15 | 141700 | 708.5 | CP-OFDM QPSK         | 1@1   | 22.38 | 22.01 | 0.1589 |
| 12 | 15 | 15 | 141700 | 708.5 | CP-OFDM QPSK         | 1@77  | 21.83 | 21.46 | 0.1400 |



## 5GNR N13

## Transmitter Conducted Output Power And ERP, (GT - LC)=1.95db

| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation           | RB    | Conducted Power(dBm) | ERP(dBm) | ERP(W) |
|---------|-----|-----------|--------|-----------|----------------------|-------|----------------------|----------|--------|
| 13      | 15  | 5         | 149700 | 779.5     | DFT-s-OFDM QPSK      | 1@1   | 23.42                | 23.22    | 0.2099 |
| 13      | 15  | 5         | 149700 | 779.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.27                | 22.07    | 0.1611 |
| 13      | 15  | 5         | 150200 | 782       | DFT-s-OFDM QPSK      | 1@1   | 23.33                | 23.13    | 0.2056 |
| 13      | 15  | 5         | 150200 | 782       | DFT-s-OFDM 16 QAM    | 1@1   | 22.41                | 22.21    | 0.1663 |
| 13      | 15  | 5         | 150700 | 784.5     | DFT-s-OFDM QPSK      | 1@1   | 23.48                | 23.28    | 0.2128 |
| 13      | 15  | 5         | 150700 | 784.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.33                | 22.13    | 0.1633 |
| V       | 15  | 10        | 150200 | 782       | DFT-s-OFDM PI/2 BPSK | 25@12 | 23.3                 | 23.1     | 0.2042 |
| 13      | 15  | 10        | 150200 | 782       | DFT-s-OFDM PI/2 BPSK | 1@1   | 23.07                | 22.87    | 0.1936 |
| 13      | 15  | 10        | 150200 | 782       | DFT-s-OFDM PI/2 BPSK | 1@50  | 23.2                 | 23       | 0.1995 |
| 13      | 15  | 10        | 150200 | 782       | DFT-s-OFDM QPSK      | 25@12 | 23.32                | 23.12    | 0.2051 |
| 13      | 15  | 10        | 150200 | 782       | DFT-s-OFDM QPSK      | 1@1   | 23.52                | 23.32    | 0.2148 |
| 13      | 15  | 10        | 150200 | 782       | DFT-s-OFDM QPSK      | 1@50  | 23.29                | 23.09    | 0.2037 |
| 13      | 15  | 10        | 150200 | 782       | DFT-s-OFDM 16 QAM    | 25@12 | 22.34                | 22.14    | 0.1637 |
| 13      | 15  | 10        | 150200 | 782       | DFT-s-OFDM 16 QAM    | 1@1   | 22.25                | 22.05    | 0.1603 |
| 13      | 15  | 10        | 150200 | 782       | DFT-s-OFDM 16 QAM    | 1@50  | 22.56                | 22.36    | 0.1722 |
| 13      | 15  | 10        | 150200 | 782       | DFT-s-OFDM 64 QAM    | 25@12 | 20.99                | 20.79    | 0.1199 |
| 13      | 15  | 10        | 150200 | 782       | DFT-s-OFDM 64 QAM    | 1@1   | 20.93                | 20.73    | 0.1183 |
| 13      | 15  | 10        | 150200 | 782       | DFT-s-OFDM 64 QAM    | 1@50  | 21.09                | 20.89    | 0.1227 |
| 13      | 15  | 10        | 150200 | 782       | DFT-s-OFDM 256 QAM   | 25@12 | 18.79                | 18.59    | 0.0723 |
| 13      | 15  | 10        | 150200 | 782       | DFT-s-OFDM 256 QAM   | 1@1   | 18.32                | 18.12    | 0.0649 |
| 13      | 15  | 10        | 150200 | 782       | DFT-s-OFDM 256 QAM   | 1@50  | 18.69                | 18.49    | 0.0706 |
| 13      | 15  | 10        | 150200 | 782       | CP-OFDM QPSK         | 26@13 | 21.78                | 21.58    | 0.1439 |
| 13      | 15  | 10        | 150200 | 782       | CP-OFDM QPSK         | 1@1   | 21.75                | 21.55    | 0.1429 |
| 13      | 15  | 10        | 150200 | 782       | CP-OFDM QPSK         | 1@50  | 21.92                | 21.72    | 0.1486 |



## 5GNR N25

## Transmitter Conducted Output Power And EIRP, (GT - LC)=3.55db

| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation           | RB     | Conducted Power(dBm) | EIRP(dBm) | EIRP(W) |
|---------|-----|-----------|--------|-----------|----------------------|--------|----------------------|-----------|---------|
| 25      | 15  | 5         | 370500 | 1852.5    | DFT-s-OFDM QPSK      | 1@1    | 23.44                | 26.99     | 0.5000  |
| 25      | 15  | 5         | 370500 | 1852.5    | DFT-s-OFDM 16 QAM    | 1@1    | 22.49                | 26.04     | 0.4018  |
| 25      | 15  | 5         | 376500 | 1882.5    | DFT-s-OFDM QPSK      | 1@1    | 23.47                | 27.02     | 0.5035  |
| 25      | 15  | 5         | 376500 | 1882.5    | DFT-s-OFDM 16 QAM    | 1@1    | 22.41                | 25.96     | 0.3945  |
| 25      | 15  | 5         | 382500 | 1912.5    | DFT-s-OFDM QPSK      | 1@1    | 23.17                | 26.72     | 0.4699  |
| 25      | 15  | 5         | 382500 | 1912.5    | DFT-s-OFDM 16 QAM    | 1@1    | 22.25                | 25.8      | 0.3802  |
| 25      | 15  | 10        | 371000 | 1855      | DFT-s-OFDM QPSK      | 1@1    | 23.24                | 26.79     | 0.4775  |
| 25      | 15  | 10        | 371000 | 1855      | DFT-s-OFDM 16 QAM    | 1@1    | 22.2                 | 25.75     | 0.3758  |
| 25      | 15  | 10        | 376500 | 1882.5    | DFT-s-OFDM QPSK      | 1@1    | 23.21                | 26.76     | 0.4742  |
| 25      | 15  | 10        | 376500 | 1882.5    | DFT-s-OFDM 16 QAM    | 1@1    | 22.35                | 25.9      | 0.3890  |
| 25      | 15  | 10        | 382000 | 1910      | DFT-s-OFDM QPSK      | 1@1    | 23.22                | 26.77     | 0.4753  |
| 25      | 15  | 10        | 382000 | 1910      | DFT-s-OFDM 16 QAM    | 1@1    | 22.25                | 25.8      | 0.3802  |
| 25      | 15  | 15        | 371500 | 1857.5    | DFT-s-OFDM QPSK      | 1@1    | 23.32                | 26.87     | 0.4864  |
| 25      | 15  | 15        | 371500 | 1857.5    | DFT-s-OFDM 16 QAM    | 1@1    | 22.41                | 25.96     | 0.3945  |
| 25      | 15  | 15        | 376500 | 1882.5    | DFT-s-OFDM QPSK      | 1@1    | 23.45                | 27        | 0.5012  |
| 25      | 15  | 15        | 376500 | 1882.5    | DFT-s-OFDM 16 QAM    | 1@1    | 22.57                | 26.12     | 0.4093  |
| 25      | 15  | 15        | 381500 | 1907.5    | DFT-s-OFDM QPSK      | 1@1    | 23.43                | 26.98     | 0.4989  |
| 25      | 15  | 15        | 381500 | 1907.5    | DFT-s-OFDM 16 QAM    | 1@1    | 22.44                | 25.99     | 0.3972  |
| 25      | 15  | 20        | 372000 | 1860      | DFT-s-OFDM QPSK      | 1@1    | 23.16                | 26.71     | 0.4688  |
| 25      | 15  | 20        | 372000 | 1860      | DFT-s-OFDM 16 QAM    | 1@1    | 22.31                | 25.86     | 0.3855  |
| 25      | 15  | 20        | 376500 | 1882.5    | DFT-s-OFDM QPSK      | 1@1    | 23.39                | 26.94     | 0.4943  |
| 25      | 15  | 20        | 376500 | 1882.5    | DFT-s-OFDM 16 QAM    | 1@1    | 22.55                | 26.1      | 0.4074  |
| 25      | 15  | 20        | 381000 | 1905      | DFT-s-OFDM QPSK      | 1@1    | 23.42                | 26.97     | 0.4977  |
| 25      | 15  | 20        | 381000 | 1905      | DFT-s-OFDM 16 QAM    | 1@1    | 22.52                | 26.07     | 0.4046  |
| 25      | 15  | 25        | 372500 | 1862.5    | DFT-s-OFDM QPSK      | 1@1    | 23.39                | 26.94     | 0.4943  |
| 25      | 15  | 25        | 372500 | 1862.5    | DFT-s-OFDM 16 QAM    | 1@1    | 22.48                | 26.03     | 0.4009  |
| 25      | 15  | 25        | 376500 | 1882.5    | DFT-s-OFDM QPSK      | 1@1    | 23.32                | 26.87     | 0.4864  |
| 25      | 15  | 25        | 376500 | 1882.5    | DFT-s-OFDM 16 QAM    | 1@1    | 22.34                | 25.89     | 0.3882  |
| 25      | 15  | 25        | 380500 | 1902.5    | DFT-s-OFDM QPSK      | 1@1    | 23.33                | 26.88     | 0.4875  |
| 25      | 15  | 25        | 380500 | 1902.5    | DFT-s-OFDM 16 QAM    | 1@1    | 22.39                | 25.94     | 0.3926  |
| 25      | 15  | 30        | 373000 | 1865      | DFT-s-OFDM QPSK      | 1@1    | 23.41                | 26.96     | 0.4966  |
| 25      | 15  | 30        | 373000 | 1865      | DFT-s-OFDM 16 QAM    | 1@1    | 22.42                | 25.97     | 0.3954  |
| 25      | 15  | 30        | 376500 | 1882.5    | DFT-s-OFDM QPSK      | 1@1    | 23.44                | 26.99     | 0.5000  |
| 25      | 15  | 30        | 376500 | 1882.5    | DFT-s-OFDM 16 QAM    | 1@1    | 22.41                | 25.96     | 0.3945  |
| 25      | 15  | 30        | 380000 | 1900      | DFT-s-OFDM QPSK      | 1@1    | 23.45                | 27        | 0.5012  |
| 25      | 15  | 30        | 380000 | 1900      | DFT-s-OFDM 16 QAM    | 1@1    | 22.53                | 26.08     | 0.4055  |
| 25      | 15  | 40        | 374000 | 1870      | DFT-s-OFDM PI/2 BPSK | 108@54 | 23.46                | 27.01     | 0.5023  |
| 25      | 15  | 40        | 374000 | 1870      | DFT-s-OFDM PI/2 BPSK | 1@1    | 23.18                | 26.73     | 0.4710  |
| 25      | 15  | 40        | 374000 | 1870      | DFT-s-OFDM PI/2 BPSK | 1@214  | 23.32                | 26.87     | 0.4864  |
| 25      | 15  | 40        | 374000 | 1870      | DFT-s-OFDM QPSK      | 108@54 | 23.49                | 27.04     | 0.5058  |
| 25      | 15  | 40        | 374000 | 1870      | DFT-s-OFDM QPSK      | 1@1    | 23.38                | 26.93     | 0.4932  |



|    |    |    |        |        |                      |        |       |       |        |
|----|----|----|--------|--------|----------------------|--------|-------|-------|--------|
| 25 | 15 | 40 | 374000 | 1870   | DFT-s-OFDM QPSK      | 1@214  | 23.45 | 27    | 0.5012 |
| 25 | 15 | 40 | 374000 | 1870   | DFT-s-OFDM 16 QAM    | 108@54 | 22.47 | 26.02 | 0.3999 |
| 25 | 15 | 40 | 374000 | 1870   | DFT-s-OFDM 16 QAM    | 1@1    | 22.29 | 25.84 | 0.3837 |
| 25 | 15 | 40 | 374000 | 1870   | DFT-s-OFDM 16 QAM    | 1@214  | 22.58 | 26.13 | 0.4102 |
| 25 | 15 | 40 | 374000 | 1870   | DFT-s-OFDM 64 QAM    | 108@54 | 21.01 | 24.56 | 0.2858 |
| 25 | 15 | 40 | 374000 | 1870   | DFT-s-OFDM 64 QAM    | 1@1    | 20.96 | 24.51 | 0.2825 |
| 25 | 15 | 40 | 374000 | 1870   | DFT-s-OFDM 64 QAM    | 1@214  | 21.22 | 24.77 | 0.2999 |
| 25 | 15 | 40 | 374000 | 1870   | DFT-s-OFDM 256 QAM   | 108@54 | 18.95 | 22.5  | 0.1778 |
| 25 | 15 | 40 | 374000 | 1870   | DFT-s-OFDM 256 QAM   | 1@1    | 18.55 | 22.1  | 0.1622 |
| 25 | 15 | 40 | 374000 | 1870   | DFT-s-OFDM 256 QAM   | 1@214  | 18.92 | 22.47 | 0.1766 |
| 25 | 15 | 40 | 374000 | 1870   | CP-OFDM QPSK         | 108@54 | 21.94 | 25.49 | 0.3540 |
| 25 | 15 | 40 | 374000 | 1870   | CP-OFDM QPSK         | 1@1    | 21.76 | 25.31 | 0.3396 |
| 25 | 15 | 40 | 374000 | 1870   | CP-OFDM QPSK         | 1@214  | 22.01 | 25.56 | 0.3597 |
| 25 | 15 | 40 | 376500 | 1882.5 | DFT-s-OFDM PI/2 BPSK | 108@54 | 23.43 | 26.98 | 0.4989 |
| 25 | 15 | 40 | 376500 | 1882.5 | DFT-s-OFDM PI/2 BPSK | 1@1    | 23.18 | 26.73 | 0.4710 |
| 25 | 15 | 40 | 376500 | 1882.5 | DFT-s-OFDM PI/2 BPSK | 1@214  | 23.16 | 26.71 | 0.4688 |
| 25 | 15 | 40 | 376500 | 1882.5 | DFT-s-OFDM QPSK      | 108@54 | 23.42 | 26.97 | 0.4977 |
| 25 | 15 | 40 | 376500 | 1882.5 | DFT-s-OFDM QPSK      | 1@1    | 23.26 | 26.81 | 0.4797 |
| 25 | 15 | 40 | 376500 | 1882.5 | DFT-s-OFDM QPSK      | 1@214  | 23.25 | 26.8  | 0.4786 |
| 25 | 15 | 40 | 376500 | 1882.5 | DFT-s-OFDM 16 QAM    | 108@54 | 22.48 | 26.03 | 0.4009 |
| 25 | 15 | 40 | 376500 | 1882.5 | DFT-s-OFDM 16 QAM    | 1@1    | 22.29 | 25.84 | 0.3837 |
| 25 | 15 | 40 | 376500 | 1882.5 | DFT-s-OFDM 16 QAM    | 1@214  | 22.44 | 25.99 | 0.3972 |
| 25 | 15 | 40 | 376500 | 1882.5 | DFT-s-OFDM 64 QAM    | 108@54 | 20.97 | 24.52 | 0.2831 |
| 25 | 15 | 40 | 376500 | 1882.5 | DFT-s-OFDM 64 QAM    | 1@1    | 21.02 | 24.57 | 0.2864 |
| 25 | 15 | 40 | 376500 | 1882.5 | DFT-s-OFDM 64 QAM    | 1@214  | 21.11 | 24.66 | 0.2924 |
| 25 | 15 | 40 | 376500 | 1882.5 | DFT-s-OFDM 256 QAM   | 108@54 | 18.63 | 22.18 | 0.1652 |
| 25 | 15 | 40 | 376500 | 1882.5 | DFT-s-OFDM 256 QAM   | 1@1    | 18.62 | 22.17 | 0.1648 |
| 25 | 15 | 40 | 376500 | 1882.5 | DFT-s-OFDM 256 QAM   | 1@214  | 18.76 | 22.31 | 0.1702 |
| 25 | 15 | 40 | 376500 | 1882.5 | CP-OFDM QPSK         | 108@54 | 21.94 | 25.49 | 0.3540 |
| 25 | 15 | 40 | 376500 | 1882.5 | CP-OFDM QPSK         | 1@1    | 21.81 | 25.36 | 0.3436 |
| 25 | 15 | 40 | 376500 | 1882.5 | CP-OFDM QPSK         | 1@214  | 21.55 | 25.1  | 0.3236 |
| 25 | 15 | 40 | 379000 | 1895   | DFT-s-OFDM PI/2 BPSK | 108@54 | 23.4  | 26.95 | 0.4955 |
| 25 | 15 | 40 | 379000 | 1895   | DFT-s-OFDM PI/2 BPSK | 1@1    | 23.42 | 26.97 | 0.4977 |
| 25 | 15 | 40 | 379000 | 1895   | DFT-s-OFDM PI/2 BPSK | 1@214  | 22.83 | 26.38 | 0.4345 |
| 25 | 15 | 40 | 379000 | 1895   | DFT-s-OFDM QPSK      | 108@54 | 23.38 | 26.93 | 0.4932 |
| 25 | 15 | 40 | 379000 | 1895   | DFT-s-OFDM QPSK      | 1@1    | 23.3  | 26.85 | 0.4842 |
| 25 | 15 | 40 | 379000 | 1895   | DFT-s-OFDM QPSK      | 1@214  | 22.2  | 25.75 | 0.3758 |
| 25 | 15 | 40 | 379000 | 1895   | DFT-s-OFDM 16 QAM    | 108@54 | 22.57 | 26.12 | 0.4093 |
| 25 | 15 | 40 | 379000 | 1895   | DFT-s-OFDM 16 QAM    | 1@1    | 22.72 | 26.27 | 0.4236 |
| 25 | 15 | 40 | 379000 | 1895   | DFT-s-OFDM 16 QAM    | 1@214  | 21.23 | 24.78 | 0.3006 |
| 25 | 15 | 40 | 379000 | 1895   | DFT-s-OFDM 64 QAM    | 108@54 | 21.1  | 24.65 | 0.2917 |
| 25 | 15 | 40 | 379000 | 1895   | DFT-s-OFDM 64 QAM    | 1@1    | 21.15 | 24.7  | 0.2951 |
| 25 | 15 | 40 | 379000 | 1895   | DFT-s-OFDM 64 QAM    | 1@214  | 20.25 | 23.8  | 0.2399 |
| 25 | 15 | 40 | 379000 | 1895   | DFT-s-OFDM 256 QAM   | 108@54 | 18.83 | 22.38 | 0.1730 |
| 25 | 15 | 40 | 379000 | 1895   | DFT-s-OFDM 256 QAM   | 1@1    | 18.96 | 22.51 | 0.1782 |



|    |    |    |        |      |                    |        |       |       |        |
|----|----|----|--------|------|--------------------|--------|-------|-------|--------|
| 25 | 15 | 40 | 379000 | 1895 | DFT-s-OFDM 256 QAM | 1@214  | 18.83 | 22.38 | 0.1730 |
| 25 | 15 | 40 | 379000 | 1895 | CP-OFDM QPSK       | 108@54 | 21.97 | 25.52 | 0.3565 |
| 25 | 15 | 40 | 379000 | 1895 | CP-OFDM QPSK       | 1@1    | 22.09 | 25.64 | 0.3664 |
| 25 | 15 | 40 | 379000 | 1895 | CP-OFDM QPSK       | 1@214  | 20.92 | 24.47 | 0.2799 |



## 5GNR N26

## Transmitter Conducted Output Power And ERP, (GT - LC)=1.47 db

| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation           | RB    | Conducted Power(dBm) | ERP(dBm) | ERP(W) |
|---------|-----|-----------|--------|-----------|----------------------|-------|----------------------|----------|--------|
| 26      | 15  | 5         | 165300 | 826.5     | DFT-s-OFDM QPSK      | 1@1   | 23.72                | 23.04    | 0.2014 |
| 26      | 15  | 5         | 165300 | 826.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.74                | 22.06    | 0.1607 |
| 26      | 15  | 5         | 167300 | 836.5     | DFT-s-OFDM QPSK      | 1@1   | 23.76                | 23.08    | 0.2032 |
| 26      | 15  | 5         | 167300 | 836.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.58                | 21.9     | 0.1549 |
| 26      | 15  | 5         | 169300 | 846.5     | DFT-s-OFDM QPSK      | 1@1   | 23.44                | 22.76    | 0.1888 |
| 26      | 15  | 5         | 169300 | 846.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.5                 | 21.82    | 0.1521 |
| 26      | 15  | 10        | 165800 | 829       | DFT-s-OFDM QPSK      | 1@1   | 23.65                | 22.97    | 0.1982 |
| 26      | 15  | 10        | 165800 | 829       | DFT-s-OFDM 16 QAM    | 1@1   | 22.69                | 22.01    | 0.1589 |
| 26      | 15  | 10        | 167300 | 836.5     | DFT-s-OFDM QPSK      | 1@1   | 23.47                | 22.79    | 0.1901 |
| 26      | 15  | 10        | 167300 | 836.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.63                | 21.95    | 0.1567 |
| 26      | 15  | 10        | 168800 | 844       | DFT-s-OFDM QPSK      | 1@1   | 23.54                | 22.86    | 0.1932 |
| 26      | 15  | 10        | 168800 | 844       | DFT-s-OFDM 16 QAM    | 1@1   | 22.51                | 21.83    | 0.1524 |
| 26      | 15  | 15        | 166300 | 831.5     | DFT-s-OFDM QPSK      | 1@1   | 23.74                | 23.06    | 0.2023 |
| 26      | 15  | 15        | 166300 | 831.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.84                | 22.16    | 0.1644 |
| 26      | 15  | 15        | 167300 | 836.5     | DFT-s-OFDM QPSK      | 1@1   | 23.79                | 23.11    | 0.2046 |
| 26      | 15  | 15        | 167300 | 836.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.84                | 22.16    | 0.1644 |
| 26      | 15  | 15        | 168300 | 841.5     | DFT-s-OFDM QPSK      | 1@1   | 23.72                | 23.04    | 0.2014 |
| 26      | 15  | 15        | 168300 | 841.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.67                | 21.99    | 0.1581 |
| 26      | 15  | 20        | 166800 | 834       | DFT-s-OFDM PI/2 BPSK | 50@25 | 23.55                | 22.87    | 0.1936 |
| 26      | 15  | 20        | 166800 | 834       | DFT-s-OFDM PI/2 BPSK | 1@1   | 23.59                | 22.91    | 0.1954 |
| 26      | 15  | 20        | 166800 | 834       | DFT-s-OFDM PI/2 BPSK | 1@104 | 23.33                | 22.65    | 0.1841 |
| 26      | 15  | 20        | 166800 | 834       | DFT-s-OFDM QPSK      | 50@25 | 23.5                 | 22.82    | 0.1914 |
| 26      | 15  | 20        | 166800 | 834       | DFT-s-OFDM QPSK      | 1@1   | 23.82                | 23.14    | 0.2061 |
| 26      | 15  | 20        | 166800 | 834       | DFT-s-OFDM QPSK      | 1@104 | 23.38                | 22.7     | 0.1862 |
| 26      | 15  | 20        | 166800 | 834       | DFT-s-OFDM 16 QAM    | 50@25 | 22.6                 | 21.92    | 0.1556 |
| 26      | 15  | 20        | 166800 | 834       | DFT-s-OFDM 16 QAM    | 1@1   | 22.84                | 22.16    | 0.1644 |
| 26      | 15  | 20        | 166800 | 834       | DFT-s-OFDM 16 QAM    | 1@104 | 22.53                | 21.85    | 0.1531 |
| 26      | 15  | 20        | 166800 | 834       | DFT-s-OFDM 64 QAM    | 50@25 | 21.12                | 20.44    | 0.1107 |
| 26      | 15  | 20        | 166800 | 834       | DFT-s-OFDM 64 QAM    | 1@1   | 21.46                | 20.78    | 0.1197 |
| 26      | 15  | 20        | 166800 | 834       | DFT-s-OFDM 64 QAM    | 1@104 | 21.21                | 20.53    | 0.1130 |
| 26      | 15  | 20        | 166800 | 834       | DFT-s-OFDM 256 QAM   | 50@25 | 18.92                | 18.24    | 0.0667 |
| 26      | 15  | 20        | 166800 | 834       | DFT-s-OFDM 256 QAM   | 1@1   | 19.06                | 18.38    | 0.0689 |
| 26      | 15  | 20        | 166800 | 834       | DFT-s-OFDM 256 QAM   | 1@104 | 18.86                | 18.18    | 0.0658 |
| 26      | 15  | 20        | 166800 | 834       | CP-OFDM QPSK         | 53@26 | 22.11                | 21.43    | 0.1390 |
| 26      | 15  | 20        | 166800 | 834       | CP-OFDM QPSK         | 1@1   | 22.22                | 21.54    | 0.1426 |
| 26      | 15  | 20        | 166800 | 834       | CP-OFDM QPSK         | 1@104 | 21.6                 | 20.92    | 0.1236 |
| 26      | 15  | 20        | 167300 | 836.5     | DFT-s-OFDM PI/2 BPSK | 50@25 | 23.6                 | 22.92    | 0.1959 |
| 26      | 15  | 20        | 167300 | 836.5     | DFT-s-OFDM PI/2 BPSK | 1@1   | 23.69                | 23.01    | 0.2000 |
| 26      | 15  | 20        | 167300 | 836.5     | DFT-s-OFDM PI/2 BPSK | 1@104 | 23.28                | 22.6     | 0.1820 |
| 26      | 15  | 20        | 167300 | 836.5     | DFT-s-OFDM QPSK      | 50@25 | 23.62                | 22.94    | 0.1968 |
| 26      | 15  | 20        | 167300 | 836.5     | DFT-s-OFDM QPSK      | 1@1   | 23.76                | 23.08    | 0.2032 |



|    |    |    |        |       |                      |       |       |       |        |
|----|----|----|--------|-------|----------------------|-------|-------|-------|--------|
| 26 | 15 | 20 | 167300 | 836.5 | DFT-s-OFDM QPSK      | 1@104 | 23.35 | 22.67 | 0.1849 |
| 26 | 15 | 20 | 167300 | 836.5 | DFT-s-OFDM 16 QAM    | 50@25 | 22.55 | 21.87 | 0.1538 |
| 26 | 15 | 20 | 167300 | 836.5 | DFT-s-OFDM 16 QAM    | 1@1   | 22.89 | 22.21 | 0.1663 |
| 26 | 15 | 20 | 167300 | 836.5 | DFT-s-OFDM 16 QAM    | 1@104 | 22.46 | 21.78 | 0.1507 |
| 26 | 15 | 20 | 167300 | 836.5 | DFT-s-OFDM 64 QAM    | 50@25 | 21.09 | 20.41 | 0.1099 |
| 26 | 15 | 20 | 167300 | 836.5 | DFT-s-OFDM 64 QAM    | 1@1   | 21.53 | 20.85 | 0.1216 |
| 26 | 15 | 20 | 167300 | 836.5 | DFT-s-OFDM 64 QAM    | 1@104 | 21.02 | 20.34 | 0.1081 |
| 26 | 15 | 20 | 167300 | 836.5 | DFT-s-OFDM 256 QAM   | 50@25 | 18.83 | 18.15 | 0.0653 |
| 26 | 15 | 20 | 167300 | 836.5 | DFT-s-OFDM 256 QAM   | 1@1   | 19.11 | 18.43 | 0.0697 |
| 26 | 15 | 20 | 167300 | 836.5 | DFT-s-OFDM 256 QAM   | 1@104 | 18.72 | 18.04 | 0.0637 |
| 26 | 15 | 20 | 167300 | 836.5 | CP-OFDM QPSK         | 53@26 | 22.16 | 21.48 | 0.1406 |
| 26 | 15 | 20 | 167300 | 836.5 | CP-OFDM QPSK         | 1@1   | 22.32 | 21.64 | 0.1459 |
| 26 | 15 | 20 | 167300 | 836.5 | CP-OFDM QPSK         | 1@104 | 21.47 | 20.79 | 0.1199 |
| 26 | 15 | 20 | 167800 | 839   | DFT-s-OFDM PI/2 BPSK | 50@25 | 23.57 | 22.89 | 0.1945 |
| 26 | 15 | 20 | 167800 | 839   | DFT-s-OFDM PI/2 BPSK | 1@1   | 23.6  | 22.92 | 0.1959 |
| 26 | 15 | 20 | 167800 | 839   | DFT-s-OFDM PI/2 BPSK | 1@104 | 23.17 | 22.49 | 0.1774 |
| 26 | 15 | 20 | 167800 | 839   | DFT-s-OFDM QPSK      | 50@25 | 23.59 | 22.91 | 0.1954 |
| 26 | 15 | 20 | 167800 | 839   | DFT-s-OFDM QPSK      | 1@1   | 23.64 | 22.96 | 0.1977 |
| 26 | 15 | 20 | 167800 | 839   | DFT-s-OFDM QPSK      | 1@104 | 23.15 | 22.47 | 0.1766 |
| 26 | 15 | 20 | 167800 | 839   | DFT-s-OFDM 16 QAM    | 50@25 | 22.6  | 21.92 | 0.1556 |
| 26 | 15 | 20 | 167800 | 839   | DFT-s-OFDM 16 QAM    | 1@1   | 22.78 | 22.1  | 0.1622 |
| 26 | 15 | 20 | 167800 | 839   | DFT-s-OFDM 16 QAM    | 1@104 | 22.28 | 21.6  | 0.1445 |
| 26 | 15 | 20 | 167800 | 839   | DFT-s-OFDM 64 QAM    | 50@25 | 21.16 | 20.48 | 0.1117 |
| 26 | 15 | 20 | 167800 | 839   | DFT-s-OFDM 64 QAM    | 1@1   | 21.39 | 20.71 | 0.1178 |
| 26 | 15 | 20 | 167800 | 839   | DFT-s-OFDM 64 QAM    | 1@104 | 20.88 | 20.2  | 0.1047 |
| 26 | 15 | 20 | 167800 | 839   | DFT-s-OFDM 256 QAM   | 50@25 | 19.1  | 18.42 | 0.0695 |
| 26 | 15 | 20 | 167800 | 839   | DFT-s-OFDM 256 QAM   | 1@1   | 18.99 | 18.31 | 0.0678 |
| 26 | 15 | 20 | 167800 | 839   | DFT-s-OFDM 256 QAM   | 1@104 | 18.57 | 17.89 | 0.0615 |
| 26 | 15 | 20 | 167800 | 839   | CP-OFDM QPSK         | 53@26 | 22.12 | 21.44 | 0.1393 |
| 26 | 15 | 20 | 167800 | 839   | CP-OFDM QPSK         | 1@1   | 22.22 | 21.54 | 0.1426 |
| 26 | 15 | 20 | 167800 | 839   | CP-OFDM QPSK         | 1@104 | 21.73 | 21.05 | 0.1274 |



## 5GNR N38

## Transmitter Conducted Output Power And EIRP, (GT - LC)=1.98db

| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation           | RB    | Conducted Power(dBm) | EIRP(dBm) | EIRP(W) |
|---------|-----|-----------|--------|-----------|----------------------|-------|----------------------|-----------|---------|
| 38      | 30  | 10        | 515000 | 2575      | DFT-s-OFDM QPSK      | 1@1   | 25                   | 26.98     | 0.4989  |
| 38      | 30  | 10        | 515000 | 2575      | DFT-s-OFDM 16 QAM    | 1@1   | 24.05                | 26.03     | 0.4009  |
| 38      | 30  | 10        | 519000 | 2595      | DFT-s-OFDM QPSK      | 1@1   | 25                   | 26.98     | 0.4989  |
| 38      | 30  | 10        | 519000 | 2595      | DFT-s-OFDM 16 QAM    | 1@1   | 24.02                | 26        | 0.3981  |
| 38      | 30  | 10        | 523000 | 2615      | DFT-s-OFDM QPSK      | 1@1   | 25                   | 26.98     | 0.4989  |
| 38      | 30  | 10        | 523000 | 2615      | DFT-s-OFDM 16 QAM    | 1@1   | 24.02                | 26        | 0.3981  |
| 38      | 30  | 15        | 515500 | 2577.5    | DFT-s-OFDM QPSK      | 1@1   | 25.23                | 27.21     | 0.5260  |
| 38      | 30  | 15        | 515500 | 2577.5    | DFT-s-OFDM 16 QAM    | 1@1   | 24.24                | 26.22     | 0.4188  |
| 38      | 30  | 15        | 519000 | 2595      | DFT-s-OFDM QPSK      | 1@1   | 25.21                | 27.19     | 0.5236  |
| 38      | 30  | 15        | 519000 | 2595      | DFT-s-OFDM 16 QAM    | 1@1   | 24.17                | 26.15     | 0.4121  |
| 38      | 30  | 15        | 522500 | 2612.5    | DFT-s-OFDM QPSK      | 1@1   | 25.26                | 27.24     | 0.5297  |
| 38      | 30  | 15        | 522500 | 2612.5    | DFT-s-OFDM 16 QAM    | 1@1   | 24.22                | 26.2      | 0.4169  |
| 38      | 30  | 20        | 516000 | 2580      | DFT-s-OFDM QPSK      | 1@1   | 25.23                | 27.21     | 0.5260  |
| 38      | 30  | 20        | 516000 | 2580      | DFT-s-OFDM 16 QAM    | 1@1   | 24.26                | 26.24     | 0.4207  |
| 38      | 30  | 20        | 519000 | 2595      | DFT-s-OFDM QPSK      | 1@1   | 25.16                | 27.14     | 0.5176  |
| 38      | 30  | 20        | 519000 | 2595      | DFT-s-OFDM 16 QAM    | 1@1   | 24.17                | 26.15     | 0.4121  |
| 38      | 30  | 20        | 522000 | 2610      | DFT-s-OFDM QPSK      | 1@1   | 25.2                 | 27.18     | 0.5224  |
| 38      | 30  | 20        | 522000 | 2610      | DFT-s-OFDM 16 QAM    | 1@1   | 24.22                | 26.2      | 0.4169  |
| 38      | 30  | 30        | 517000 | 2585      | DFT-s-OFDM QPSK      | 1@1   | 25.17                | 27.15     | 0.5188  |
| 38      | 30  | 30        | 517000 | 2585      | DFT-s-OFDM 16 QAM    | 1@1   | 24.24                | 26.22     | 0.4188  |
| 38      | 30  | 30        | 519000 | 2595      | DFT-s-OFDM QPSK      | 1@1   | 25.26                | 27.24     | 0.5297  |
| 38      | 30  | 30        | 519000 | 2595      | DFT-s-OFDM 16 QAM    | 1@1   | 24.33                | 26.31     | 0.4276  |
| 38      | 30  | 30        | 521000 | 2605      | DFT-s-OFDM QPSK      | 1@1   | 25.25                | 27.23     | 0.5284  |
| 38      | 30  | 30        | 521000 | 2605      | DFT-s-OFDM 16 QAM    | 1@1   | 24.27                | 26.25     | 0.4217  |
| 38      | 30  | 40        | 518000 | 2590      | DFT-s-OFDM PI/2 BPSK | 50@25 | 25.35                | 27.33     | 0.5408  |
| 38      | 30  | 40        | 518000 | 2590      | DFT-s-OFDM PI/2 BPSK | 1@1   | 25.35                | 27.33     | 0.5408  |
| 38      | 30  | 40        | 518000 | 2590      | DFT-s-OFDM PI/2 BPSK | 1@104 | 25.34                | 27.32     | 0.5395  |
| 38      | 30  | 40        | 518000 | 2590      | DFT-s-OFDM QPSK      | 50@25 | 25.37                | 27.35     | 0.5433  |
| 38      | 30  | 40        | 518000 | 2590      | DFT-s-OFDM QPSK      | 1@1   | 25.29                | 27.27     | 0.5333  |
| 38      | 30  | 40        | 518000 | 2590      | DFT-s-OFDM QPSK      | 1@104 | 25.26                | 27.24     | 0.5297  |
| 38      | 30  | 40        | 518000 | 2590      | DFT-s-OFDM 16 QAM    | 50@25 | 24.3                 | 26.28     | 0.4246  |
| 38      | 30  | 40        | 518000 | 2590      | DFT-s-OFDM 16 QAM    | 1@1   | 24.39                | 26.37     | 0.4335  |
| 38      | 30  | 40        | 518000 | 2590      | DFT-s-OFDM 16 QAM    | 1@104 | 24.38                | 26.36     | 0.4325  |
| 38      | 30  | 40        | 518000 | 2590      | DFT-s-OFDM 64 QAM    | 50@25 | 22.83                | 24.81     | 0.3027  |
| 38      | 30  | 40        | 518000 | 2590      | DFT-s-OFDM 64 QAM    | 1@1   | 22.97                | 24.95     | 0.3126  |
| 38      | 30  | 40        | 518000 | 2590      | DFT-s-OFDM 64 QAM    | 1@104 | 22.89                | 24.87     | 0.3069  |
| 38      | 30  | 40        | 518000 | 2590      | DFT-s-OFDM 256 QAM   | 50@25 | 20.81                | 22.79     | 0.1901  |
| 38      | 30  | 40        | 518000 | 2590      | DFT-s-OFDM 256 QAM   | 1@1   | 20.77                | 22.75     | 0.1884  |
| 38      | 30  | 40        | 518000 | 2590      | DFT-s-OFDM 256 QAM   | 1@104 | 20.75                | 22.73     | 0.1875  |
| 38      | 30  | 40        | 518000 | 2590      | CP-OFDM QPSK         | 53@26 | 22.33                | 24.31     | 0.2698  |
| 38      | 30  | 40        | 518000 | 2590      | CP-OFDM QPSK         | 1@1   | 22.32                | 24.3      | 0.2692  |



|    |    |    |        |      |                      |       |       |       |        |
|----|----|----|--------|------|----------------------|-------|-------|-------|--------|
| 38 | 30 | 40 | 518000 | 2590 | CP-OFDM QPSK         | 1@104 | 22.34 | 24.32 | 0.2704 |
| 38 | 30 | 40 | 519000 | 2595 | DFT-s-OFDM PI/2 BPSK | 50@25 | 25.29 | 27.27 | 0.5333 |
| 38 | 30 | 40 | 519000 | 2595 | DFT-s-OFDM PI/2 BPSK | 1@1   | 25.31 | 27.29 | 0.5358 |
| 38 | 30 | 40 | 519000 | 2595 | DFT-s-OFDM PI/2 BPSK | 1@104 | 25.14 | 27.12 | 0.5152 |
| 38 | 30 | 40 | 519000 | 2595 | DFT-s-OFDM QPSK      | 50@25 | 25.13 | 27.11 | 0.5140 |
| 38 | 30 | 40 | 519000 | 2595 | DFT-s-OFDM QPSK      | 1@1   | 25.24 | 27.22 | 0.5272 |
| 38 | 30 | 40 | 519000 | 2595 | DFT-s-OFDM QPSK      | 1@104 | 25.14 | 27.12 | 0.5152 |
| 38 | 30 | 40 | 519000 | 2595 | DFT-s-OFDM 16 QAM    | 50@25 | 24.14 | 26.12 | 0.4093 |
| 38 | 30 | 40 | 519000 | 2595 | DFT-s-OFDM 16 QAM    | 1@1   | 24.38 | 26.36 | 0.4325 |
| 38 | 30 | 40 | 519000 | 2595 | DFT-s-OFDM 16 QAM    | 1@104 | 24.27 | 26.25 | 0.4217 |
| 38 | 30 | 40 | 519000 | 2595 | DFT-s-OFDM 64 QAM    | 50@25 | 22.75 | 24.73 | 0.2972 |
| 38 | 30 | 40 | 519000 | 2595 | DFT-s-OFDM 64 QAM    | 1@1   | 22.93 | 24.91 | 0.3097 |
| 38 | 30 | 40 | 519000 | 2595 | DFT-s-OFDM 64 QAM    | 1@104 | 22.8  | 24.78 | 0.3006 |
| 38 | 30 | 40 | 519000 | 2595 | DFT-s-OFDM 256 QAM   | 50@25 | 20.77 | 22.75 | 0.1884 |
| 38 | 30 | 40 | 519000 | 2595 | DFT-s-OFDM 256 QAM   | 1@1   | 20.77 | 22.75 | 0.1884 |
| 38 | 30 | 40 | 519000 | 2595 | DFT-s-OFDM 256 QAM   | 1@104 | 20.56 | 22.54 | 0.1795 |
| 38 | 30 | 40 | 519000 | 2595 | CP-OFDM QPSK         | 53@26 | 22.2  | 24.18 | 0.2618 |
| 38 | 30 | 40 | 519000 | 2595 | CP-OFDM QPSK         | 1@1   | 22.21 | 24.19 | 0.2624 |
| 38 | 30 | 40 | 519000 | 2595 | CP-OFDM QPSK         | 1@104 | 22.1  | 24.08 | 0.2559 |
| 38 | 30 | 40 | 520000 | 2600 | DFT-s-OFDM PI/2 BPSK | 50@25 | 25.26 | 27.24 | 0.5297 |
| 38 | 30 | 40 | 520000 | 2600 | DFT-s-OFDM PI/2 BPSK | 1@1   | 25.28 | 27.26 | 0.5321 |
| 38 | 30 | 40 | 520000 | 2600 | DFT-s-OFDM PI/2 BPSK | 1@104 | 25.12 | 27.1  | 0.5129 |
| 38 | 30 | 40 | 520000 | 2600 | DFT-s-OFDM QPSK      | 50@25 | 25.28 | 27.26 | 0.5321 |
| 38 | 30 | 40 | 520000 | 2600 | DFT-s-OFDM QPSK      | 1@1   | 25.21 | 27.19 | 0.5236 |
| 38 | 30 | 40 | 520000 | 2600 | DFT-s-OFDM QPSK      | 1@104 | 25.06 | 27.04 | 0.5058 |
| 38 | 30 | 40 | 520000 | 2600 | DFT-s-OFDM 16 QAM    | 50@25 | 24.22 | 26.2  | 0.4169 |
| 38 | 30 | 40 | 520000 | 2600 | DFT-s-OFDM 16 QAM    | 1@1   | 24.39 | 26.37 | 0.4335 |
| 38 | 30 | 40 | 520000 | 2600 | DFT-s-OFDM 16 QAM    | 1@104 | 24.25 | 26.23 | 0.4198 |
| 38 | 30 | 40 | 520000 | 2600 | DFT-s-OFDM 64 QAM    | 50@25 | 22.76 | 24.74 | 0.2979 |
| 38 | 30 | 40 | 520000 | 2600 | DFT-s-OFDM 64 QAM    | 1@1   | 22.9  | 24.88 | 0.3076 |
| 38 | 30 | 40 | 520000 | 2600 | DFT-s-OFDM 64 QAM    | 1@104 | 22.78 | 24.76 | 0.2992 |
| 38 | 30 | 40 | 520000 | 2600 | DFT-s-OFDM 256 QAM   | 50@25 | 20.77 | 22.75 | 0.1884 |
| 38 | 30 | 40 | 520000 | 2600 | DFT-s-OFDM 256 QAM   | 1@1   | 20.82 | 22.8  | 0.1905 |
| 38 | 30 | 40 | 520000 | 2600 | DFT-s-OFDM 256 QAM   | 1@104 | 20.61 | 22.59 | 0.1816 |
| 38 | 30 | 40 | 520000 | 2600 | CP-OFDM QPSK         | 53@26 | 22.28 | 24.26 | 0.2667 |
| 38 | 30 | 40 | 520000 | 2600 | CP-OFDM QPSK         | 1@1   | 22.37 | 24.35 | 0.2723 |
| 38 | 30 | 40 | 520000 | 2600 | CP-OFDM QPSK         | 1@104 | 22.21 | 24.19 | 0.2624 |



## 5GNR N38 UL MIMO

## Transmitter Conducted Output Power And EIRP, (GT - LC)=1.98db

| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation      | RB    | ANT0 Power(dBm) | ANT2 Power(dBm) | Conducted Power(dBm) | EIRP(dBm) | EIRP(W) |
|---------|-----|-----------|--------|-----------|-----------------|-------|-----------------|-----------------|----------------------|-----------|---------|
| 38      | 30  | 10        | 515000 | 2575      | CP-OFDM QPSK    | 1@1   | 21.18           | 21.2            | 24.20                | 27        | 0.5012  |
| 38      | 30  | 10        | 515000 | 2575      | CP-OFDM 16 QAM  | 1@1   | 20.17           | 20.24           | 23.22                | 26.02     | 0.3999  |
| 38      | 30  | 10        | 519000 | 2595      | CP-OFDM QPSK    | 1@1   | 21.22           | 21.12           | 24.18                | 26.98     | 0.4989  |
| 38      | 30  | 10        | 519000 | 2595      | CP-OFDM 16 QAM  | 1@1   | 20.19           | 20.29           | 23.25                | 26.05     | 0.4027  |
| 38      | 30  | 10        | 523000 | 2615      | CP-OFDM QPSK    | 1@1   | 21.24           | 21.16           | 24.21                | 27.01     | 0.5023  |
| 38      | 30  | 10        | 523000 | 2615      | CP-OFDM 16 QAM  | 1@1   | 20.22           | 20.02           | 23.13                | 25.93     | 0.3917  |
| 38      | 30  | 15        | 515500 | 2577.5    | CP-OFDM QPSK    | 1@1   | 21.41           | 21.28           | 24.36                | 27.16     | 0.5200  |
| 38      | 30  | 15        | 515500 | 2577.5    | CP-OFDM 16 QAM  | 1@1   | 20.43           | 20.38           | 23.42                | 26.22     | 0.4188  |
| 38      | 30  | 15        | 519000 | 2595      | CP-OFDM QPSK    | 1@1   | 21.37           | 21.34           | 24.37                | 27.17     | 0.5212  |
| 38      | 30  | 15        | 519000 | 2595      | CP-OFDM 16 QAM  | 1@1   | 20.31           | 20.44           | 23.39                | 26.19     | 0.4159  |
| 38      | 30  | 15        | 522500 | 2612.5    | CP-OFDM QPSK    | 1@1   | 21.38           | 21.29           | 24.35                | 27.15     | 0.5188  |
| 38      | 30  | 15        | 522500 | 2612.5    | CP-OFDM 16 QAM  | 1@1   | 20.28           | 20.3            | 23.30                | 26.1      | 0.4074  |
| 38      | 30  | 20        | 516000 | 2580      | CP-OFDM QPSK    | 1@1   | 21.41           | 21.34           | 24.39                | 27.19     | 0.5236  |
| 38      | 30  | 20        | 516000 | 2580      | CP-OFDM 16 QAM  | 1@1   | 20.41           | 20.43           | 23.43                | 26.23     | 0.4198  |
| 38      | 30  | 20        | 519000 | 2595      | CP-OFDM QPSK    | 1@1   | 21.42           | 21.33           | 24.39                | 27.19     | 0.5236  |
| 38      | 30  | 20        | 519000 | 2595      | CP-OFDM 16 QAM  | 1@1   | 20.3            | 20.35           | 23.34                | 26.14     | 0.4111  |
| 38      | 30  | 20        | 522000 | 2610      | CP-OFDM QPSK    | 1@1   | 21.35           | 21.36           | 24.37                | 27.17     | 0.5212  |
| 38      | 30  | 20        | 522000 | 2610      | CP-OFDM 16 QAM  | 1@1   | 20.33           | 20.35           | 23.35                | 26.15     | 0.4121  |
| 38      | 30  | 30        | 517000 | 2585      | CP-OFDM QPSK    | 1@1   | 21.47           | 21.41           | 24.45                | 27.25     | 0.5309  |
| 38      | 30  | 30        | 517000 | 2585      | CP-OFDM 16 QAM  | 1@1   | 20.45           | 20.53           | 23.50                | 26.3      | 0.4266  |
| 38      | 30  | 30        | 519000 | 2595      | CP-OFDM QPSK    | 1@1   | 21.35           | 21.42           | 24.40                | 27.2      | 0.5248  |
| 38      | 30  | 30        | 519000 | 2595      | CP-OFDM 16 QAM  | 1@1   | 20.39           | 20.48           | 23.45                | 26.25     | 0.4217  |
| 38      | 30  | 30        | 521000 | 2605      | CP-OFDM QPSK    | 1@1   | 21.48           | 21.44           | 24.47                | 27.27     | 0.5333  |
| 38      | 30  | 30        | 521000 | 2605      | CP-OFDM 16 QAM  | 1@1   | 20.51           | 20.55           | 23.54                | 26.34     | 0.4305  |
| 38      | 30  | 40        | 518000 | 2590      | CP-OFDM QPSK    | 53@26 | 21.52           | 21.43           | 24.49                | 27.29     | 0.5358  |
| 38      | 30  | 40        | 518000 | 2590      | CP-OFDM QPSK    | 1@1   | 21.49           | 21.46           | 24.49                | 27.29     | 0.5358  |
| 38      | 30  | 40        | 518000 | 2590      | CP-OFDM QPSK    | 1@104 | 21.37           | 21.37           | 24.38                | 27.18     | 0.5224  |
| 38      | 30  | 40        | 518000 | 2590      | CP-OFDM 16 QAM  | 53@26 | 20.48           | 20.52           | 23.51                | 26.31     | 0.4276  |
| 38      | 30  | 40        | 518000 | 2590      | CP-OFDM 16 QAM  | 1@1   | 20.46           | 20.3            | 23.39                | 26.19     | 0.4159  |
| 38      | 30  | 40        | 518000 | 2590      | CP-OFDM 16 QAM  | 1@104 | 20.4            | 20.35           | 23.39                | 26.19     | 0.4159  |
| 38      | 30  | 40        | 518000 | 2590      | CP-OFDM 64 QAM  | 53@26 | 18.97           | 19.02           | 22.01                | 24.81     | 0.3027  |
| 38      | 30  | 40        | 518000 | 2590      | CP-OFDM 64 QAM  | 1@1   | 19.08           | 18.99           | 22.05                | 24.85     | 0.3055  |
| 38      | 30  | 40        | 518000 | 2590      | CP-OFDM 64 QAM  | 1@104 | 18.95           | 19.01           | 21.99                | 24.79     | 0.3013  |
| 38      | 30  | 40        | 518000 | 2590      | CP-OFDM 256 QAM | 53@26 | 16.96           | 17.04           | 20.01                | 22.81     | 0.1910  |
| 38      | 30  | 40        | 518000 | 2590      | CP-OFDM 256 QAM | 1@1   | 17.11           | 17.01           | 20.07                | 22.87     | 0.1936  |
| 38      | 30  | 40        | 518000 | 2590      | CP-OFDM 256 QAM | 1@104 | 17.01           | 17.05           | 20.04                | 22.84     | 0.1923  |
| 38      | 30  | 40        | 519000 | 2595      | CP-OFDM QPSK    | 53@26 | 21.47           | 21.38           | 24.44                | 27.24     | 0.5297  |
| 38      | 30  | 40        | 519000 | 2595      | CP-OFDM QPSK    | 1@1   | 21.44           | 21.34           | 24.40                | 27.2      | 0.5248  |
| 38      | 30  | 40        | 519000 | 2595      | CP-OFDM QPSK    | 1@104 | 21.33           | 21.23           | 24.29                | 27.09     | 0.5117  |
| 38      | 30  | 40        | 519000 | 2595      | CP-OFDM 16 QAM  | 53@26 | 20.44           | 20.4            | 23.43                | 26.23     | 0.4198  |
| 38      | 30  | 40        | 519000 | 2595      | CP-OFDM 16 QAM  | 1@1   | 20.37           | 20.28           | 23.34                | 26.14     | 0.4111  |



|    |    |    |        |      |                 |       |       |       |       |       |        |
|----|----|----|--------|------|-----------------|-------|-------|-------|-------|-------|--------|
| 38 | 30 | 40 | 519000 | 2595 | CP-OFDM 16 QAM  | 1@104 | 20.17 | 20.13 | 23.16 | 25.96 | 0.3945 |
| 38 | 30 | 40 | 519000 | 2595 | CP-OFDM 64 QAM  | 53@26 | 18.97 | 18.95 | 21.97 | 24.77 | 0.2999 |
| 38 | 30 | 40 | 519000 | 2595 | CP-OFDM 64 QAM  | 1@1   | 18.99 | 18.96 | 21.99 | 24.79 | 0.3013 |
| 38 | 30 | 40 | 519000 | 2595 | CP-OFDM 64 QAM  | 1@104 | 18.82 | 18.92 | 21.88 | 24.68 | 0.2938 |
| 38 | 30 | 40 | 519000 | 2595 | CP-OFDM 256 QAM | 53@26 | 16.97 | 16.96 | 19.98 | 22.78 | 0.1897 |
| 38 | 30 | 40 | 519000 | 2595 | CP-OFDM 256 QAM | 1@1   | 17.03 | 16.99 | 20.02 | 22.82 | 0.1914 |
| 38 | 30 | 40 | 519000 | 2595 | CP-OFDM 256 QAM | 1@104 | 16.88 | 16.98 | 19.94 | 22.74 | 0.1879 |
| 38 | 30 | 40 | 520000 | 2600 | CP-OFDM QPSK    | 53@26 | 21.45 | 21.46 | 24.47 | 27.27 | 0.5333 |
| 38 | 30 | 40 | 520000 | 2600 | CP-OFDM QPSK    | 1@1   | 21.45 | 21.51 | 24.49 | 27.29 | 0.5358 |
| 38 | 30 | 40 | 520000 | 2600 | CP-OFDM QPSK    | 1@104 | 21.27 | 21.42 | 24.36 | 27.16 | 0.5200 |
| 38 | 30 | 40 | 520000 | 2600 | CP-OFDM 16 QAM  | 53@26 | 20.52 | 20.48 | 23.51 | 26.31 | 0.4276 |
| 38 | 30 | 40 | 520000 | 2600 | CP-OFDM 16 QAM  | 1@1   | 20.4  | 20.38 | 23.40 | 26.2  | 0.4169 |
| 38 | 30 | 40 | 520000 | 2600 | CP-OFDM 16 QAM  | 1@104 | 20.25 | 20.34 | 23.31 | 26.11 | 0.4083 |
| 38 | 30 | 40 | 520000 | 2600 | CP-OFDM 64 QAM  | 53@26 | 19.03 | 19.01 | 22.03 | 24.83 | 0.3041 |
| 38 | 30 | 40 | 520000 | 2600 | CP-OFDM 64 QAM  | 1@1   | 18.97 | 19.11 | 22.05 | 24.85 | 0.3055 |
| 38 | 30 | 40 | 520000 | 2600 | CP-OFDM 64 QAM  | 1@104 | 18.85 | 19.04 | 21.96 | 24.76 | 0.2992 |
| 38 | 30 | 40 | 520000 | 2600 | CP-OFDM 256 QAM | 53@26 | 16.99 | 16.97 | 19.99 | 22.79 | 0.1901 |
| 38 | 30 | 40 | 520000 | 2600 | CP-OFDM 256 QAM | 1@1   | 17.05 | 17.14 | 20.11 | 22.91 | 0.1954 |
| 38 | 30 | 40 | 520000 | 2600 | CP-OFDM 256 QAM | 1@104 | 16.84 | 17.07 | 19.97 | 22.77 | 0.1892 |



## 5GNR N41

## Transmitter Conducted Output Power And EIRP, (GT - LC)=2.35db

| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation        | RB  | Conducted Power(dBm) | EIRP(dBm) | EIRP(W) |
|---------|-----|-----------|--------|-----------|-------------------|-----|----------------------|-----------|---------|
| 41      | 30  | 20        | 501204 | 2506.02   | DFT-s-OFDM QPSK   | 1@1 | 25.98                | 28.33     | 0.6808  |
| 41      | 30  | 20        | 501204 | 2506.02   | DFT-s-OFDM 16 QAM | 1@1 | 24.96                | 27.31     | 0.5383  |
| 41      | 30  | 20        | 518598 | 2592.99   | DFT-s-OFDM QPSK   | 1@1 | 25.98                | 28.33     | 0.6808  |
| 41      | 30  | 20        | 518598 | 2592.99   | DFT-s-OFDM 16 QAM | 1@1 | 24.99                | 27.34     | 0.5420  |
| 41      | 30  | 20        | 535998 | 2679.99   | DFT-s-OFDM QPSK   | 1@1 | 25.79                | 28.14     | 0.6516  |
| 41      | 30  | 20        | 535998 | 2679.99   | DFT-s-OFDM 16 QAM | 1@1 | 24.79                | 27.14     | 0.5176  |
| 41      | 30  | 30        | 502200 | 2511      | DFT-s-OFDM QPSK   | 1@1 | 26.04                | 28.39     | 0.6902  |
| 41      | 30  | 30        | 502200 | 2511      | DFT-s-OFDM 16 QAM | 1@1 | 25.05                | 27.4      | 0.5495  |
| 41      | 30  | 30        | 518598 | 2592.99   | DFT-s-OFDM QPSK   | 1@1 | 25.94                | 28.29     | 0.6745  |
| 41      | 30  | 30        | 518598 | 2592.99   | DFT-s-OFDM 16 QAM | 1@1 | 25.02                | 27.37     | 0.5458  |
| 41      | 30  | 30        | 534996 | 2674.98   | DFT-s-OFDM QPSK   | 1@1 | 26.01                | 28.36     | 0.6855  |
| 41      | 30  | 30        | 534996 | 2674.98   | DFT-s-OFDM 16 QAM | 1@1 | 25.05                | 27.4      | 0.5495  |
| 41      | 30  | 40        | 503202 | 2516.01   | DFT-s-OFDM QPSK   | 1@1 | 25.98                | 28.33     | 0.6808  |
| 41      | 30  | 40        | 503202 | 2516.01   | DFT-s-OFDM 16 QAM | 1@1 | 25.03                | 27.38     | 0.5470  |
| 41      | 30  | 40        | 518598 | 2592.99   | DFT-s-OFDM QPSK   | 1@1 | 25.99                | 28.34     | 0.6823  |
| 41      | 30  | 40        | 518598 | 2592.99   | DFT-s-OFDM 16 QAM | 1@1 | 25.1                 | 27.45     | 0.5559  |
| 41      | 30  | 40        | 534000 | 2670      | DFT-s-OFDM QPSK   | 1@1 | 25.96                | 28.31     | 0.6776  |
| 41      | 30  | 40        | 534000 | 2670      | DFT-s-OFDM 16 QAM | 1@1 | 25                   | 27.35     | 0.5433  |
| 41      | 30  | 50        | 504204 | 2521.02   | DFT-s-OFDM QPSK   | 1@1 | 26.01                | 28.36     | 0.6855  |
| 41      | 30  | 50        | 504204 | 2521.02   | DFT-s-OFDM 16 QAM | 1@1 | 25.01                | 27.36     | 0.5445  |
| 41      | 30  | 50        | 518598 | 2592.99   | DFT-s-OFDM QPSK   | 1@1 | 25.93                | 28.28     | 0.6730  |
| 41      | 30  | 50        | 518598 | 2592.99   | DFT-s-OFDM 16 QAM | 1@1 | 24.97                | 27.32     | 0.5395  |
| 41      | 30  | 50        | 532998 | 2664.99   | DFT-s-OFDM QPSK   | 1@1 | 25.81                | 28.16     | 0.6546  |
| 41      | 30  | 50        | 532998 | 2664.99   | DFT-s-OFDM 16 QAM | 1@1 | 24.85                | 27.2      | 0.5248  |
| 41      | 30  | 60        | 505200 | 2526      | DFT-s-OFDM QPSK   | 1@1 | 25.9                 | 28.25     | 0.6683  |
| 41      | 30  | 60        | 505200 | 2526      | DFT-s-OFDM 16 QAM | 1@1 | 25                   | 27.35     | 0.5433  |
| 41      | 30  | 60        | 518598 | 2592.99   | DFT-s-OFDM QPSK   | 1@1 | 25.89                | 28.24     | 0.6668  |
| 41      | 30  | 60        | 518598 | 2592.99   | DFT-s-OFDM 16 QAM | 1@1 | 24.94                | 27.29     | 0.5358  |
| 41      | 30  | 60        | 531996 | 2659.98   | DFT-s-OFDM QPSK   | 1@1 | 25.72                | 28.07     | 0.6412  |
| 41      | 30  | 60        | 531996 | 2659.98   | DFT-s-OFDM 16 QAM | 1@1 | 24.78                | 27.13     | 0.5164  |
| 41      | 30  | 70        | 505200 | 2531.01   | DFT-s-OFDM QPSK   | 1@1 | 25.84                | 28.19     | 0.6592  |
| 41      | 30  | 70        | 505200 | 2531.01   | DFT-s-OFDM 16 QAM | 1@1 | 24.87                | 27.22     | 0.5272  |
| 41      | 30  | 70        | 518598 | 2592.99   | DFT-s-OFDM QPSK   | 1@1 | 25.72                | 28.07     | 0.6412  |
| 41      | 30  | 70        | 518598 | 2592.99   | DFT-s-OFDM 16 QAM | 1@1 | 24.77                | 27.12     | 0.5152  |
| 41      | 30  | 70        | 531996 | 2655      | DFT-s-OFDM QPSK   | 1@1 | 25.67                | 28.02     | 0.6339  |
| 41      | 30  | 70        | 531996 | 2655      | DFT-s-OFDM 16 QAM | 1@1 | 24.68                | 27.03     | 0.5047  |
| 41      | 30  | 80        | 507204 | 2536.02   | DFT-s-OFDM QPSK   | 1@1 | 25.71                | 28.06     | 0.6397  |
| 41      | 30  | 80        | 507204 | 2536.02   | DFT-s-OFDM 16 QAM | 1@1 | 24.8                 | 27.15     | 0.5188  |
| 41      | 30  | 80        | 518598 | 2592.99   | DFT-s-OFDM QPSK   | 1@1 | 25.64                | 27.99     | 0.6295  |
| 41      | 30  | 80        | 518598 | 2592.99   | DFT-s-OFDM 16 QAM | 1@1 | 24.75                | 27.1      | 0.5129  |
| 41      | 30  | 80        | 529998 | 2649.99   | DFT-s-OFDM QPSK   | 1@1 | 25.69                | 28.04     | 0.6368  |



|    |    |     |        |         |                      |        |       |       |        |
|----|----|-----|--------|---------|----------------------|--------|-------|-------|--------|
| 41 | 30 | 80  | 529998 | 2649.99 | DFT-s-OFDM 16 QAM    | 1@1    | 24.74 | 27.09 | 0.5117 |
| 41 | 30 | 90  | 508200 | 2541    | DFT-s-OFDM QPSK      | 1@1    | 25.82 | 28.17 | 0.6561 |
| 41 | 30 | 90  | 508200 | 2541    | DFT-s-OFDM 16 QAM    | 1@1    | 24.87 | 27.22 | 0.5272 |
| 41 | 30 | 90  | 518598 | 2592.99 | DFT-s-OFDM QPSK      | 1@1    | 25.66 | 28.01 | 0.6324 |
| 41 | 30 | 90  | 518598 | 2592.99 | DFT-s-OFDM 16 QAM    | 1@1    | 24.74 | 27.09 | 0.5117 |
| 41 | 30 | 90  | 528996 | 2644.98 | DFT-s-OFDM QPSK      | 1@1    | 25.64 | 27.99 | 0.6295 |
| 41 | 30 | 90  | 528996 | 2644.98 | DFT-s-OFDM 16 QAM    | 1@1    | 24.77 | 27.12 | 0.5152 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM PI/2 BPSK | 135@67 | 25.68 | 28.03 | 0.6353 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM PI/2 BPSK | 1@1    | 25.79 | 28.14 | 0.6516 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM PI/2 BPSK | 1@271  | 25.67 | 28.02 | 0.6339 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM QPSK      | 135@67 | 25.66 | 28.01 | 0.6324 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM QPSK      | 1@1    | 25.69 | 28.04 | 0.6368 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM QPSK      | 1@271  | 25.6  | 27.95 | 0.6237 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM 16 QAM    | 135@67 | 24.7  | 27.05 | 0.5070 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM 16 QAM    | 1@1    | 24.88 | 27.23 | 0.5284 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM 16 QAM    | 1@271  | 24.78 | 27.13 | 0.5164 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM 64 QAM    | 135@67 | 23.22 | 25.57 | 0.3606 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM 64 QAM    | 1@1    | 23.4  | 25.75 | 0.3758 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM 64 QAM    | 1@271  | 23.31 | 25.66 | 0.3681 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM 256 QAM   | 135@67 | 21.2  | 23.55 | 0.2265 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM 256 QAM   | 1@1    | 21.2  | 23.55 | 0.2265 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM 256 QAM   | 1@271  | 21.13 | 23.48 | 0.2228 |
| 41 | 30 | 100 | 509202 | 2546.01 | CP-OFDM QPSK         | 137@68 | 24.14 | 26.49 | 0.4457 |
| 41 | 30 | 100 | 509202 | 2546.01 | CP-OFDM QPSK         | 1@1    | 24.28 | 26.63 | 0.4603 |
| 41 | 30 | 100 | 509202 | 2546.01 | CP-OFDM QPSK         | 1@271  | 24.2  | 26.55 | 0.4519 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM PI/2 BPSK | 135@67 | 25.77 | 28.12 | 0.6486 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM PI/2 BPSK | 1@1    | 25.66 | 28.01 | 0.6324 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM PI/2 BPSK | 1@271  | 25.63 | 27.98 | 0.6281 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM QPSK      | 135@67 | 25.74 | 28.09 | 0.6442 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM QPSK      | 1@1    | 26.05 | 28.4  | 0.6918 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM QPSK      | 1@271  | 25.56 | 27.91 | 0.6180 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM 16 QAM    | 135@67 | 24.77 | 27.12 | 0.5152 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM 16 QAM    | 1@1    | 24.76 | 27.11 | 0.5140 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM 16 QAM    | 1@271  | 24.71 | 27.06 | 0.5082 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM 64 QAM    | 135@67 | 23.27 | 25.62 | 0.3648 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM 64 QAM    | 1@1    | 23.25 | 25.6  | 0.3631 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM 64 QAM    | 1@271  | 23.25 | 25.6  | 0.3631 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM 256 QAM   | 135@67 | 21.29 | 23.64 | 0.2312 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM 256 QAM   | 1@1    | 21.1  | 23.45 | 0.2213 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM 256 QAM   | 1@271  | 21.1  | 23.45 | 0.2213 |
| 41 | 30 | 100 | 518598 | 2592.99 | CP-OFDM QPSK         | 137@68 | 24.2  | 26.55 | 0.4519 |
| 41 | 30 | 100 | 518598 | 2592.99 | CP-OFDM QPSK         | 1@1    | 24.22 | 26.57 | 0.4539 |
| 41 | 30 | 100 | 518598 | 2592.99 | CP-OFDM QPSK         | 1@271  | 24.19 | 26.54 | 0.4508 |
| 41 | 30 | 100 | 528000 | 2640    | DFT-s-OFDM PI/2 BPSK | 135@67 | 25.71 | 28.06 | 0.6397 |
| 41 | 30 | 100 | 528000 | 2640    | DFT-s-OFDM PI/2 BPSK | 1@1    | 25.68 | 28.03 | 0.6353 |



|    |    |     |        |      |                      |        |       |       |        |
|----|----|-----|--------|------|----------------------|--------|-------|-------|--------|
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM PI/2 BPSK | 1@271  | 25.55 | 27.9  | 0.6166 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM QPSK      | 135@67 | 25.7  | 28.05 | 0.6383 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM QPSK      | 1@1    | 25.6  | 27.95 | 0.6237 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM QPSK      | 1@271  | 25.52 | 27.87 | 0.6124 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM 16 QAM    | 135@67 | 24.71 | 27.06 | 0.5082 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM 16 QAM    | 1@1    | 24.71 | 27.06 | 0.5082 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM 16 QAM    | 1@271  | 24.59 | 26.94 | 0.4943 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM 64 QAM    | 135@67 | 23.19 | 25.54 | 0.3581 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM 64 QAM    | 1@1    | 23.23 | 25.58 | 0.3614 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM 64 QAM    | 1@271  | 23.16 | 25.51 | 0.3556 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM 256 QAM   | 135@67 | 21.25 | 23.6  | 0.2291 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM 256 QAM   | 1@1    | 21.12 | 23.47 | 0.2223 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM 256 QAM   | 1@271  | 21.03 | 23.38 | 0.2178 |
| 41 | 30 | 100 | 528000 | 2640 | CP-OFDM QPSK         | 137@68 | 24.13 | 26.48 | 0.4446 |
| 41 | 30 | 100 | 528000 | 2640 | CP-OFDM QPSK         | 1@1    | 24.19 | 26.54 | 0.4508 |
| 41 | 30 | 100 | 528000 | 2640 | CP-OFDM QPSK         | 1@271  | 24.09 | 26.44 | 0.4406 |



## 5GNR N41 UL MIMO

## Transmitter Conducted Output Power And EIRP, (GT - LC)=2.80db

| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation        | RB  | ANT0 Power(dBm) | ANT2 Power(dBm) | Conducted Power(dBm) | EIRP(dBm) | EIRP(W) |
|---------|-----|-----------|--------|-----------|-------------------|-----|-----------------|-----------------|----------------------|-----------|---------|
| 41      | 30  | 20        | 501204 | 2506.02   | DFT-s-OFDM QPSK   | 1@1 | 22.39           | 22.06           | 25.24                | 28.04     | 0.6368  |
| 41      | 30  | 20        | 501204 | 2506.02   | DFT-s-OFDM 16 QAM | 1@1 | 21.36           | 21.06           | 24.22                | 27.02     | 0.5035  |
| 41      | 30  | 20        | 518598 | 2592.99   | DFT-s-OFDM QPSK   | 1@1 | 22.3            | 22.08           | 25.20                | 28        | 0.6310  |
| 41      | 30  | 20        | 518598 | 2592.99   | DFT-s-OFDM 16 QAM | 1@1 | 21.29           | 21.17           | 24.24                | 27.04     | 0.5058  |
| 41      | 30  | 20        | 535998 | 2679.99   | DFT-s-OFDM QPSK   | 1@1 | 22.15           | 22.18           | 25.18                | 27.98     | 0.6281  |
| 41      | 30  | 20        | 535998 | 2679.99   | DFT-s-OFDM 16 QAM | 1@1 | 21.2            | 21.29           | 24.26                | 27.06     | 0.5082  |
| 41      | 30  | 30        | 502200 | 2511      | DFT-s-OFDM QPSK   | 1@1 | 22.42           | 22.27           | 25.36                | 28.16     | 0.6546  |
| 41      | 30  | 30        | 502200 | 2511      | DFT-s-OFDM 16 QAM | 1@1 | 21.48           | 21.17           | 24.34                | 27.14     | 0.5176  |
| 41      | 30  | 30        | 518598 | 2592.99   | DFT-s-OFDM QPSK   | 1@1 | 22.35           | 22.19           | 25.28                | 28.08     | 0.6427  |
| 41      | 30  | 30        | 518598 | 2592.99   | DFT-s-OFDM 16 QAM | 1@1 | 21.41           | 21.21           | 24.32                | 27.12     | 0.5152  |
| 41      | 30  | 30        | 534996 | 2674.98   | DFT-s-OFDM QPSK   | 1@1 | 22.41           | 22.38           | 25.41                | 28.21     | 0.6622  |
| 41      | 30  | 30        | 534996 | 2674.98   | DFT-s-OFDM 16 QAM | 1@1 | 21.47           | 21.48           | 24.49                | 27.29     | 0.5358  |
| 41      | 30  | 40        | 503202 | 2516.01   | DFT-s-OFDM QPSK   | 1@1 | 22.4            | 22.23           | 25.33                | 28.13     | 0.6501  |
| 41      | 30  | 40        | 503202 | 2516.01   | DFT-s-OFDM 16 QAM | 1@1 | 21.48           | 21.26           | 24.38                | 27.18     | 0.5224  |
| 41      | 30  | 40        | 518598 | 2592.99   | DFT-s-OFDM QPSK   | 1@1 | 22.44           | 22.24           | 25.35                | 28.15     | 0.6531  |
| 41      | 30  | 40        | 518598 | 2592.99   | DFT-s-OFDM 16 QAM | 1@1 | 21.49           | 21.2            | 24.36                | 27.16     | 0.5200  |
| 41      | 30  | 40        | 534000 | 2670      | DFT-s-OFDM QPSK   | 1@1 | 22.37           | 22.36           | 25.38                | 28.18     | 0.6577  |
| 41      | 30  | 40        | 534000 | 2670      | DFT-s-OFDM 16 QAM | 1@1 | 21.41           | 21.34           | 24.39                | 27.19     | 0.5236  |
| 41      | 30  | 50        | 504204 | 2521.02   | DFT-s-OFDM QPSK   | 1@1 | 22.28           | 22.14           | 25.22                | 28.02     | 0.6339  |
| 41      | 30  | 50        | 504204 | 2521.02   | DFT-s-OFDM 16 QAM | 1@1 | 21.37           | 21.15           | 24.27                | 27.07     | 0.5093  |
| 41      | 30  | 50        | 518598 | 2592.99   | DFT-s-OFDM QPSK   | 1@1 | 22.34           | 22.07           | 25.22                | 28.02     | 0.6339  |
| 41      | 30  | 50        | 518598 | 2592.99   | DFT-s-OFDM 16 QAM | 1@1 | 21.33           | 21.15           | 24.25                | 27.05     | 0.5070  |
| 41      | 30  | 50        | 532998 | 2664.99   | DFT-s-OFDM QPSK   | 1@1 | 22.19           | 22.21           | 25.21                | 28.01     | 0.6324  |
| 41      | 30  | 50        | 532998 | 2664.99   | DFT-s-OFDM 16 QAM | 1@1 | 21.11           | 21.29           | 24.21                | 27.01     | 0.5023  |
| 41      | 30  | 60        | 505200 | 2526      | DFT-s-OFDM QPSK   | 1@1 | 22.22           | 21.98           | 25.11                | 27.91     | 0.6180  |
| 41      | 30  | 60        | 505200 | 2526      | DFT-s-OFDM 16 QAM | 1@1 | 21.32           | 21.05           | 24.20                | 27        | 0.5012  |
| 41      | 30  | 60        | 518598 | 2592.99   | DFT-s-OFDM QPSK   | 1@1 | 22.3            | 21.99           | 25.16                | 27.96     | 0.6252  |
| 41      | 30  | 60        | 518598 | 2592.99   | DFT-s-OFDM 16 QAM | 1@1 | 21.35           | 21.11           | 24.24                | 27.04     | 0.5058  |
| 41      | 30  | 60        | 531996 | 2659.98   | DFT-s-OFDM QPSK   | 1@1 | 22.04           | 22.08           | 25.07                | 27.87     | 0.6124  |
| 41      | 30  | 60        | 531996 | 2659.98   | DFT-s-OFDM 16 QAM | 1@1 | 21.04           | 21.19           | 24.13                | 26.93     | 0.4932  |
| 41      | 30  | 70        | 505200 | 2531.01   | DFT-s-OFDM QPSK   | 1@1 | 22.1            | 22              | 25.06                | 27.86     | 0.6109  |
| 41      | 30  | 70        | 505200 | 2531.01   | DFT-s-OFDM 16 QAM | 1@1 | 21.23           | 20.99           | 24.12                | 26.92     | 0.4920  |
| 41      | 30  | 70        | 518598 | 2592.99   | DFT-s-OFDM QPSK   | 1@1 | 22.14           | 21.85           | 25.01                | 27.81     | 0.6039  |
| 41      | 30  | 70        | 518598 | 2592.99   | DFT-s-OFDM 16 QAM | 1@1 | 21.13           | 20.86           | 24.01                | 26.81     | 0.4797  |
| 41      | 30  | 70        | 531996 | 2655      | DFT-s-OFDM QPSK   | 1@1 | 22.01           | 21.94           | 24.99                | 27.79     | 0.6012  |
| 41      | 30  | 70        | 531996 | 2655      | DFT-s-OFDM 16 QAM | 1@1 | 20.98           | 20.83           | 23.92                | 26.72     | 0.4699  |
| 41      | 30  | 80        | 507204 | 2536.02   | DFT-s-OFDM QPSK   | 1@1 | 22.02           | 21.88           | 24.96                | 27.76     | 0.5970  |
| 41      | 30  | 80        | 507204 | 2536.02   | DFT-s-OFDM 16 QAM | 1@1 | 21.13           | 20.83           | 23.99                | 26.79     | 0.4775  |
| 41      | 30  | 80        | 518598 | 2592.99   | DFT-s-OFDM QPSK   | 1@1 | 22.04           | 21.73           | 24.90                | 27.7      | 0.5888  |
| 41      | 30  | 80        | 518598 | 2592.99   | DFT-s-OFDM 16 QAM | 1@1 | 21.05           | 20.9            | 23.99                | 26.79     | 0.4775  |
| 41      | 30  | 80        | 529998 | 2649.99   | DFT-s-OFDM QPSK   | 1@1 | 22.13           | 21.72           | 24.94                | 27.74     | 0.5943  |



|    |    |     |        |         |                      |        |       |       |       |       |        |
|----|----|-----|--------|---------|----------------------|--------|-------|-------|-------|-------|--------|
| 41 | 30 | 80  | 529998 | 2649.99 | DFT-s-OFDM 16 QAM    | 1@1    | 21.08 | 20.85 | 23.98 | 26.78 | 0.4764 |
| 41 | 30 | 90  | 508200 | 2541    | DFT-s-OFDM QPSK      | 1@1    | 22.09 | 21.85 | 24.98 | 27.78 | 0.5998 |
| 41 | 30 | 90  | 508200 | 2541    | DFT-s-OFDM 16 QAM    | 1@1    | 21.19 | 20.95 | 24.08 | 26.88 | 0.4875 |
| 41 | 30 | 90  | 518598 | 2592.99 | DFT-s-OFDM QPSK      | 1@1    | 21.97 | 21.79 | 24.89 | 27.69 | 0.5875 |
| 41 | 30 | 90  | 518598 | 2592.99 | DFT-s-OFDM 16 QAM    | 1@1    | 21.05 | 20.88 | 23.98 | 26.78 | 0.4764 |
| 41 | 30 | 90  | 528996 | 2644.98 | DFT-s-OFDM QPSK      | 1@1    | 22.12 | 21.74 | 24.94 | 27.74 | 0.5943 |
| 41 | 30 | 90  | 528996 | 2644.98 | DFT-s-OFDM 16 QAM    | 1@1    | 21.02 | 20.9  | 23.97 | 26.77 | 0.4753 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM PI/2 BPSK | 135@67 | 22.37 | 22.31 | 25.35 | 28.15 | 0.6531 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM PI/2 BPSK | 1@1    | 22.49 | 22.28 | 25.40 | 28.2  | 0.6607 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM PI/2 BPSK | 1@271  | 22.42 | 22.34 | 25.39 | 28.19 | 0.6592 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM QPSK      | 135@67 | 22.43 | 22.29 | 25.37 | 28.17 | 0.6561 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM QPSK      | 1@1    | 22.51 | 22.35 | 25.44 | 28.24 | 0.6668 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM QPSK      | 1@271  | 22.38 | 22.25 | 25.33 | 28.13 | 0.6501 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM 16 QAM    | 135@67 | 21.43 | 21.27 | 24.36 | 27.16 | 0.5200 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM 16 QAM    | 1@1    | 21.55 | 21.34 | 24.46 | 27.26 | 0.5321 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM 16 QAM    | 1@271  | 21.41 | 21.23 | 24.33 | 27.13 | 0.5164 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM 64 QAM    | 135@67 | 19.89 | 19.82 | 22.87 | 25.67 | 0.3690 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM 64 QAM    | 1@1    | 20.07 | 19.86 | 22.98 | 25.78 | 0.3784 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM 64 QAM    | 1@271  | 19.85 | 19.75 | 22.81 | 25.61 | 0.3639 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM 256 QAM   | 135@67 | 17.94 | 17.85 | 20.91 | 23.71 | 0.2350 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM 256 QAM   | 1@1    | 17.9  | 17.72 | 20.82 | 23.62 | 0.2301 |
| 41 | 30 | 100 | 509202 | 2546.01 | DFT-s-OFDM 256 QAM   | 1@271  | 17.87 | 17.76 | 20.83 | 23.63 | 0.2307 |
| 41 | 30 | 100 | 509202 | 2546.01 | CP-OFDM QPSK         | 137@68 | 20.88 | 20.75 | 23.83 | 26.63 | 0.4603 |
| 41 | 30 | 100 | 509202 | 2546.01 | CP-OFDM QPSK         | 1@1    | 20.8  | 20.59 | 23.71 | 26.51 | 0.4477 |
| 41 | 30 | 100 | 509202 | 2546.01 | CP-OFDM QPSK         | 1@271  | 20.77 | 20.5  | 23.65 | 26.45 | 0.4416 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM PI/2 BPSK | 135@67 | 22.51 | 22.34 | 25.44 | 28.24 | 0.6668 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM PI/2 BPSK | 1@1    | 22.46 | 22.15 | 25.32 | 28.12 | 0.6486 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM PI/2 BPSK | 1@271  | 22.38 | 22.43 | 25.42 | 28.22 | 0.6637 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM QPSK      | 135@67 | 22.48 | 22.32 | 25.41 | 28.21 | 0.6622 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM QPSK      | 1@1    | 22.45 | 22.22 | 25.35 | 28.15 | 0.6531 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM QPSK      | 1@271  | 22.35 | 22.37 | 25.37 | 28.17 | 0.6561 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM 16 QAM    | 135@67 | 21.52 | 21.34 | 24.44 | 27.24 | 0.5297 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM 16 QAM    | 1@1    | 21.45 | 21.35 | 24.41 | 27.21 | 0.5260 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM 16 QAM    | 1@271  | 21.41 | 21.54 | 24.49 | 27.29 | 0.5358 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM 64 QAM    | 135@67 | 19.99 | 19.83 | 22.92 | 25.72 | 0.3733 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM 64 QAM    | 1@1    | 19.95 | 19.81 | 22.89 | 25.69 | 0.3707 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM 64 QAM    | 1@271  | 20.01 | 20.06 | 23.05 | 25.85 | 0.3846 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM 256 QAM   | 135@67 | 18.07 | 17.94 | 21.02 | 23.82 | 0.2410 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM 256 QAM   | 1@1    | 17.84 | 17.72 | 20.79 | 23.59 | 0.2286 |
| 41 | 30 | 100 | 518598 | 2592.99 | DFT-s-OFDM 256 QAM   | 1@271  | 17.83 | 17.8  | 20.83 | 23.63 | 0.2307 |
| 41 | 30 | 100 | 518598 | 2592.99 | CP-OFDM QPSK         | 137@68 | 21    | 20.8  | 23.91 | 26.71 | 0.4688 |
| 41 | 30 | 100 | 518598 | 2592.99 | CP-OFDM QPSK         | 1@1    | 20.75 | 20.52 | 23.65 | 26.45 | 0.4416 |
| 41 | 30 | 100 | 518598 | 2592.99 | CP-OFDM QPSK         | 1@271  | 20.79 | 20.71 | 23.76 | 26.56 | 0.4529 |
| 41 | 30 | 100 | 528000 | 2640    | DFT-s-OFDM PI/2 BPSK | 135@67 | 22.46 | 22.42 | 25.45 | 28.25 | 0.6683 |
| 41 | 30 | 100 | 528000 | 2640    | DFT-s-OFDM PI/2 BPSK | 1@1    | 22.37 | 22.17 | 25.28 | 28.08 | 0.6427 |



|    |    |     |        |      |                      |        |       |       |       |       |        |
|----|----|-----|--------|------|----------------------|--------|-------|-------|-------|-------|--------|
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM PI/2 BPSK | 1@271  | 22.26 | 22.46 | 25.37 | 28.17 | 0.6561 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM QPSK      | 135@67 | 22.38 | 22.36 | 25.38 | 28.18 | 0.6577 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM QPSK      | 1@1    | 22.42 | 22.17 | 25.31 | 28.11 | 0.6471 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM QPSK      | 1@271  | 22.22 | 22.32 | 25.28 | 28.08 | 0.6427 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM 16 QAM    | 135@67 | 21.41 | 21.4  | 24.42 | 27.22 | 0.5272 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM 16 QAM    | 1@1    | 21.48 | 21.35 | 24.43 | 27.23 | 0.5284 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM 16 QAM    | 1@271  | 21.44 | 21.52 | 24.49 | 27.29 | 0.5358 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM 64 QAM    | 135@67 | 19.86 | 19.91 | 22.90 | 25.7  | 0.3715 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM 64 QAM    | 1@1    | 19.95 | 19.85 | 22.91 | 25.71 | 0.3724 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM 64 QAM    | 1@271  | 19.85 | 20.05 | 22.96 | 25.76 | 0.3767 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM 256 QAM   | 135@67 | 17.88 | 17.99 | 20.95 | 23.75 | 0.2371 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM 256 QAM   | 1@1    | 17.87 | 17.69 | 20.79 | 23.59 | 0.2286 |
| 41 | 30 | 100 | 528000 | 2640 | DFT-s-OFDM 256 QAM   | 1@271  | 17.74 | 17.88 | 20.82 | 23.62 | 0.2301 |
| 41 | 30 | 100 | 528000 | 2640 | CP-OFDM QPSK         | 137@68 | 20.97 | 20.83 | 23.91 | 26.71 | 0.4688 |
| 41 | 30 | 100 | 528000 | 2640 | CP-OFDM QPSK         | 1@1    | 20.73 | 20.55 | 23.65 | 26.45 | 0.4416 |
| 41 | 30 | 100 | 528000 | 2640 | CP-OFDM QPSK         | 1@271  | 20.6  | 20.59 | 23.61 | 26.41 | 0.4375 |



## 5GNR N66

## Transmitter Conducted Output Power And EIRP, (GT - LC)=2.45db

| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation           | RB     | Conducted Power(dBm) | EIRP(dBm) | EIRP(W) |
|---------|-----|-----------|--------|-----------|----------------------|--------|----------------------|-----------|---------|
| 66      | 15  | 5         | 342500 | 1712.5    | DFT-s-OFDM QPSK      | 1@1    | 23.11                | 25.56     | 0.3597  |
| 66      | 15  | 5         | 342500 | 1712.5    | DFT-s-OFDM 16 QAM    | 1@1    | 22.36                | 24.81     | 0.3027  |
| 66      | 15  | 5         | 349000 | 1745      | DFT-s-OFDM QPSK      | 1@1    | 24.02                | 26.47     | 0.4436  |
| 66      | 15  | 5         | 349000 | 1745      | DFT-s-OFDM 16 QAM    | 1@1    | 23.17                | 25.62     | 0.3648  |
| 66      | 15  | 5         | 355500 | 1777.5    | DFT-s-OFDM QPSK      | 1@1    | 23.89                | 26.34     | 0.4305  |
| 66      | 15  | 5         | 355500 | 1777.5    | DFT-s-OFDM 16 QAM    | 1@1    | 22.91                | 25.36     | 0.3436  |
| 66      | 15  | 10        | 343000 | 1715      | DFT-s-OFDM QPSK      | 1@1    | 23.99                | 26.44     | 0.4406  |
| 66      | 15  | 10        | 343000 | 1715      | DFT-s-OFDM 16 QAM    | 1@1    | 23.03                | 25.48     | 0.3532  |
| 66      | 15  | 10        | 349000 | 1745      | DFT-s-OFDM QPSK      | 1@1    | 23.98                | 26.43     | 0.4395  |
| 66      | 15  | 10        | 349000 | 1745      | DFT-s-OFDM 16 QAM    | 1@1    | 23.02                | 25.47     | 0.3524  |
| 66      | 15  | 10        | 355000 | 1775      | DFT-s-OFDM QPSK      | 1@1    | 23.94                | 26.39     | 0.4355  |
| 66      | 15  | 10        | 355000 | 1775      | DFT-s-OFDM 16 QAM    | 1@1    | 23                   | 25.45     | 0.3508  |
| 66      | 15  | 15        | 343500 | 1717.5    | DFT-s-OFDM QPSK      | 1@1    | 24.08                | 26.53     | 0.4498  |
| 66      | 15  | 15        | 343500 | 1717.5    | DFT-s-OFDM 16 QAM    | 1@1    | 23.13                | 25.58     | 0.3614  |
| 66      | 15  | 15        | 349000 | 1745      | DFT-s-OFDM QPSK      | 1@1    | 24.09                | 26.54     | 0.4508  |
| 66      | 15  | 15        | 349000 | 1745      | DFT-s-OFDM 16 QAM    | 1@1    | 23.29                | 25.74     | 0.3750  |
| 66      | 15  | 15        | 354500 | 1772.5    | DFT-s-OFDM QPSK      | 1@1    | 23.95                | 26.4      | 0.4365  |
| 66      | 15  | 15        | 354500 | 1772.5    | DFT-s-OFDM 16 QAM    | 1@1    | 23.01                | 25.46     | 0.3516  |
| 66      | 15  | 20        | 344000 | 1720      | DFT-s-OFDM QPSK      | 1@1    | 24.01                | 26.46     | 0.4426  |
| 66      | 15  | 20        | 344000 | 1720      | DFT-s-OFDM 16 QAM    | 1@1    | 23.1                 | 25.55     | 0.3589  |
| 66      | 15  | 20        | 349000 | 1745      | DFT-s-OFDM QPSK      | 1@1    | 24.02                | 26.47     | 0.4436  |
| 66      | 15  | 20        | 349000 | 1745      | DFT-s-OFDM 16 QAM    | 1@1    | 23.1                 | 25.55     | 0.3589  |
| 66      | 15  | 20        | 354000 | 1770      | DFT-s-OFDM QPSK      | 1@1    | 24.04                | 26.49     | 0.4457  |
| 66      | 15  | 20        | 354000 | 1770      | DFT-s-OFDM 16 QAM    | 1@1    | 23.1                 | 25.55     | 0.3589  |
| 66      | 15  | 30        | 345000 | 1725      | DFT-s-OFDM QPSK      | 1@1    | 24.03                | 26.48     | 0.4446  |
| 66      | 15  | 30        | 345000 | 1725      | DFT-s-OFDM 16 QAM    | 1@1    | 23.06                | 25.51     | 0.3556  |
| 66      | 15  | 30        | 349000 | 1745      | DFT-s-OFDM QPSK      | 1@1    | 24.1                 | 26.55     | 0.4519  |
| 66      | 15  | 30        | 349000 | 1745      | DFT-s-OFDM 16 QAM    | 1@1    | 23.03                | 25.48     | 0.3532  |
| 66      | 15  | 30        | 353000 | 1765      | DFT-s-OFDM QPSK      | 1@1    | 24.09                | 26.54     | 0.4508  |
| 66      | 15  | 30        | 353000 | 1765      | DFT-s-OFDM 16 QAM    | 1@1    | 23.24                | 25.69     | 0.3707  |
| 66      | 15  | 40        | 346000 | 1730      | DFT-s-OFDM PI/2 BPSK | 108@54 | 23.86                | 26.31     | 0.4276  |
| 66      | 15  | 40        | 346000 | 1730      | DFT-s-OFDM PI/2 BPSK | 1@1    | 23.71                | 26.16     | 0.4130  |
| 66      | 15  | 40        | 346000 | 1730      | DFT-s-OFDM PI/2 BPSK | 1@214  | 23.64                | 26.09     | 0.4064  |
| 66      | 15  | 40        | 346000 | 1730      | DFT-s-OFDM QPSK      | 108@54 | 23.94                | 26.39     | 0.4355  |
| 66      | 15  | 40        | 346000 | 1730      | DFT-s-OFDM QPSK      | 1@1    | 24.13                | 26.58     | 0.4550  |
| 66      | 15  | 40        | 346000 | 1730      | DFT-s-OFDM QPSK      | 1@214  | 23.87                | 26.32     | 0.4285  |
| 66      | 15  | 40        | 346000 | 1730      | DFT-s-OFDM 16 QAM    | 108@54 | 23.03                | 25.48     | 0.3532  |
| 66      | 15  | 40        | 346000 | 1730      | DFT-s-OFDM 16 QAM    | 1@1    | 22.93                | 25.38     | 0.3451  |
| 66      | 15  | 40        | 346000 | 1730      | DFT-s-OFDM 16 QAM    | 1@214  | 22.87                | 25.32     | 0.3404  |
| 66      | 15  | 40        | 346000 | 1730      | DFT-s-OFDM 64 QAM    | 108@54 | 21.5                 | 23.95     | 0.2483  |
| 66      | 15  | 40        | 346000 | 1730      | DFT-s-OFDM 64 QAM    | 1@1    | 21.69                | 24.14     | 0.2594  |



|    |    |    |        |      |                      |        |       |       |        |
|----|----|----|--------|------|----------------------|--------|-------|-------|--------|
| 66 | 15 | 40 | 346000 | 1730 | DFT-s-OFDM 64 QAM    | 1@214  | 21.47 | 23.92 | 0.2466 |
| 66 | 15 | 40 | 346000 | 1730 | DFT-s-OFDM 256 QAM   | 108@54 | 19.53 | 21.98 | 0.1578 |
| 66 | 15 | 40 | 346000 | 1730 | DFT-s-OFDM 256 QAM   | 1@1    | 19.35 | 21.8  | 0.1514 |
| 66 | 15 | 40 | 346000 | 1730 | DFT-s-OFDM 256 QAM   | 1@214  | 19.3  | 21.75 | 0.1496 |
| 66 | 15 | 40 | 346000 | 1730 | CP-OFDM QPSK         | 108@54 | 22.49 | 24.94 | 0.3119 |
| 66 | 15 | 40 | 346000 | 1730 | CP-OFDM QPSK         | 1@1    | 22.44 | 24.89 | 0.3083 |
| 66 | 15 | 40 | 346000 | 1730 | CP-OFDM QPSK         | 1@214  | 22.4  | 24.85 | 0.3055 |
| 66 | 15 | 40 | 349000 | 1745 | DFT-s-OFDM PI/2 BPSK | 108@54 | 24.02 | 26.47 | 0.4436 |
| 66 | 15 | 40 | 349000 | 1745 | DFT-s-OFDM PI/2 BPSK | 1@1    | 23.88 | 26.33 | 0.4295 |
| 66 | 15 | 40 | 349000 | 1745 | DFT-s-OFDM PI/2 BPSK | 1@214  | 23.77 | 26.22 | 0.4188 |
| 66 | 15 | 40 | 349000 | 1745 | DFT-s-OFDM QPSK      | 108@54 | 24.09 | 26.54 | 0.4508 |
| 66 | 15 | 40 | 349000 | 1745 | DFT-s-OFDM QPSK      | 1@1    | 23.73 | 26.18 | 0.4150 |
| 66 | 15 | 40 | 349000 | 1745 | DFT-s-OFDM QPSK      | 1@214  | 23.85 | 26.3  | 0.4266 |
| 66 | 15 | 40 | 349000 | 1745 | DFT-s-OFDM 16 QAM    | 108@54 | 23.19 | 25.64 | 0.3664 |
| 66 | 15 | 40 | 349000 | 1745 | DFT-s-OFDM 16 QAM    | 1@1    | 22.86 | 25.31 | 0.3396 |
| 66 | 15 | 40 | 349000 | 1745 | DFT-s-OFDM 16 QAM    | 1@214  | 23    | 25.45 | 0.3508 |
| 66 | 15 | 40 | 349000 | 1745 | DFT-s-OFDM 64 QAM    | 108@54 | 21.69 | 24.14 | 0.2594 |
| 66 | 15 | 40 | 349000 | 1745 | DFT-s-OFDM 64 QAM    | 1@1    | 21.86 | 24.31 | 0.2698 |
| 66 | 15 | 40 | 349000 | 1745 | DFT-s-OFDM 64 QAM    | 1@214  | 21.66 | 24.11 | 0.2576 |
| 66 | 15 | 40 | 349000 | 1745 | DFT-s-OFDM 256 QAM   | 108@54 | 19.59 | 22.04 | 0.1600 |
| 66 | 15 | 40 | 349000 | 1745 | DFT-s-OFDM 256 QAM   | 1@1    | 19.58 | 22.03 | 0.1596 |
| 66 | 15 | 40 | 349000 | 1745 | DFT-s-OFDM 256 QAM   | 1@214  | 19.35 | 21.8  | 0.1514 |
| 66 | 15 | 40 | 349000 | 1745 | CP-OFDM QPSK         | 108@54 | 22.51 | 24.96 | 0.3133 |
| 66 | 15 | 40 | 349000 | 1745 | CP-OFDM QPSK         | 1@1    | 22.69 | 25.14 | 0.3266 |
| 66 | 15 | 40 | 349000 | 1745 | CP-OFDM QPSK         | 1@214  | 22.04 | 24.49 | 0.2812 |
| 66 | 15 | 40 | 352000 | 1760 | DFT-s-OFDM PI/2 BPSK | 108@54 | 23.95 | 26.4  | 0.4365 |
| 66 | 15 | 40 | 352000 | 1760 | DFT-s-OFDM PI/2 BPSK | 1@1    | 23.87 | 26.32 | 0.4285 |
| 66 | 15 | 40 | 352000 | 1760 | DFT-s-OFDM PI/2 BPSK | 1@214  | 23.51 | 25.96 | 0.3945 |
| 66 | 15 | 40 | 352000 | 1760 | DFT-s-OFDM QPSK      | 108@54 | 23.94 | 26.39 | 0.4355 |
| 66 | 15 | 40 | 352000 | 1760 | DFT-s-OFDM QPSK      | 1@1    | 23.81 | 26.26 | 0.4227 |
| 66 | 15 | 40 | 352000 | 1760 | DFT-s-OFDM QPSK      | 1@214  | 23.66 | 26.11 | 0.4083 |
| 66 | 15 | 40 | 352000 | 1760 | DFT-s-OFDM 16 QAM    | 108@54 | 23.06 | 25.51 | 0.3556 |
| 66 | 15 | 40 | 352000 | 1760 | DFT-s-OFDM 16 QAM    | 1@1    | 23.08 | 25.53 | 0.3573 |
| 66 | 15 | 40 | 352000 | 1760 | DFT-s-OFDM 16 QAM    | 1@214  | 22.82 | 25.27 | 0.3365 |
| 66 | 15 | 40 | 352000 | 1760 | DFT-s-OFDM 64 QAM    | 108@54 | 21.55 | 24    | 0.2512 |
| 66 | 15 | 40 | 352000 | 1760 | DFT-s-OFDM 64 QAM    | 1@1    | 21.57 | 24.02 | 0.2523 |
| 66 | 15 | 40 | 352000 | 1760 | DFT-s-OFDM 64 QAM    | 1@214  | 21.48 | 23.93 | 0.2472 |
| 66 | 15 | 40 | 352000 | 1760 | DFT-s-OFDM 256 QAM   | 108@54 | 19.54 | 21.99 | 0.1581 |
| 66 | 15 | 40 | 352000 | 1760 | DFT-s-OFDM 256 QAM   | 1@1    | 19.45 | 21.9  | 0.1549 |
| 66 | 15 | 40 | 352000 | 1760 | DFT-s-OFDM 256 QAM   | 1@214  | 19.18 | 21.63 | 0.1455 |
| 66 | 15 | 40 | 352000 | 1760 | CP-OFDM QPSK         | 108@54 | 22.49 | 24.94 | 0.3119 |
| 66 | 15 | 40 | 352000 | 1760 | CP-OFDM QPSK         | 1@1    | 22.49 | 24.94 | 0.3119 |
| 66 | 15 | 40 | 352000 | 1760 | CP-OFDM QPSK         | 1@214  | 22.15 | 24.6  | 0.2884 |



## 5GNR N70

## Transmitter Conducted Output Power And EIRP, (GT - LC)=1.0db

| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation           | RB    | Conducted Power(dBm) | EIRP(dBm) | EIRP(W) |
|---------|-----|-----------|--------|-----------|----------------------|-------|----------------------|-----------|---------|
| 70      | 15  | 5         | 339500 | 1697.5    | DFT-s-OFDM QPSK      | 1@1   | 22.16                | 23.16     | 0.2070  |
| 70      | 15  | 5         | 339500 | 1697.5    | DFT-s-OFDM 16 QAM    | 1@1   | 21.31                | 22.31     | 0.1702  |
| 70      | 15  | 5         | 340500 | 1702.5    | DFT-s-OFDM QPSK      | 1@1   | 22.23                | 23.23     | 0.2104  |
| 70      | 15  | 5         | 340500 | 1702.5    | DFT-s-OFDM 16 QAM    | 1@1   | 21.32                | 22.32     | 0.1706  |
| 70      | 15  | 5         | 341500 | 1707.5    | DFT-s-OFDM QPSK      | 1@1   | 22.42                | 23.42     | 0.2198  |
| 70      | 15  | 5         | 341500 | 1707.5    | DFT-s-OFDM 16 QAM    | 1@1   | 21.37                | 22.37     | 0.1726  |
| 70      | 15  | 10        | 340000 | 1700      | DFT-s-OFDM QPSK      | 1@1   | 22.16                | 23.16     | 0.2070  |
| 70      | 15  | 10        | 340000 | 1700      | DFT-s-OFDM 16 QAM    | 1@1   | 21.19                | 22.19     | 0.1656  |
| 70      | 15  | 10        | 340500 | 1702.5    | DFT-s-OFDM QPSK      | 1@1   | 22.14                | 23.14     | 0.2061  |
| 70      | 15  | 10        | 340500 | 1702.5    | DFT-s-OFDM 16 QAM    | 1@1   | 21.2                 | 22.2      | 0.1660  |
| 70      | 15  | 10        | 341000 | 1705      | DFT-s-OFDM QPSK      | 1@1   | 22.36                | 23.36     | 0.2168  |
| 70      | 15  | 10        | 341000 | 1705      | DFT-s-OFDM 16 QAM    | 1@1   | 21.36                | 22.36     | 0.1722  |
| 70      | 15  | 15        | 340500 | 1702.5    | DFT-s-OFDM PI/2 BPSK | 36@18 | 22.19                | 23.19     | 0.2084  |
| 70      | 15  | 15        | 340500 | 1702.5    | DFT-s-OFDM PI/2 BPSK | 1@1   | 22.21                | 23.21     | 0.2094  |
| 70      | 15  | 15        | 340500 | 1702.5    | DFT-s-OFDM PI/2 BPSK | 1@77  | 22.1                 | 23.1      | 0.2042  |
| 70      | 15  | 15        | 340500 | 1702.5    | DFT-s-OFDM QPSK      | 36@18 | 22.27                | 23.27     | 0.2123  |
| 70      | 15  | 15        | 340500 | 1702.5    | DFT-s-OFDM QPSK      | 1@1   | 22.45                | 23.45     | 0.2213  |
| 70      | 15  | 15        | 340500 | 1702.5    | DFT-s-OFDM QPSK      | 1@77  | 22.31                | 23.31     | 0.2143  |
| 70      | 15  | 15        | 340500 | 1702.5    | DFT-s-OFDM 16 QAM    | 36@18 | 21.32                | 22.32     | 0.1706  |
| 70      | 15  | 15        | 340500 | 1702.5    | DFT-s-OFDM 16 QAM    | 1@1   | 21.47                | 22.47     | 0.1766  |
| 70      | 15  | 15        | 340500 | 1702.5    | DFT-s-OFDM 16 QAM    | 1@77  | 21.4                 | 22.4      | 0.1738  |
| 70      | 15  | 15        | 340500 | 1702.5    | DFT-s-OFDM 64 QAM    | 36@18 | 19.87                | 20.87     | 0.1222  |
| 70      | 15  | 15        | 340500 | 1702.5    | DFT-s-OFDM 64 QAM    | 1@1   | 20.01                | 21.01     | 0.1262  |
| 70      | 15  | 15        | 340500 | 1702.5    | DFT-s-OFDM 64 QAM    | 1@77  | 19.97                | 20.97     | 0.1250  |
| 70      | 15  | 15        | 340500 | 1702.5    | DFT-s-OFDM 256 QAM   | 36@18 | 17.75                | 18.75     | 0.0750  |
| 70      | 15  | 15        | 340500 | 1702.5    | DFT-s-OFDM 256 QAM   | 1@1   | 17.6                 | 18.6      | 0.0724  |
| 70      | 15  | 15        | 340500 | 1702.5    | DFT-s-OFDM 256 QAM   | 1@77  | 17.54                | 18.54     | 0.0714  |
| 70      | 15  | 15        | 340500 | 1702.5    | CP-OFDM QPSK         | 39@19 | 20.84                | 21.84     | 0.1528  |
| 70      | 15  | 15        | 340500 | 1702.5    | CP-OFDM QPSK         | 1@1   | 20.86                | 21.86     | 0.1535  |
| 70      | 15  | 15        | 340500 | 1702.5    | CP-OFDM QPSK         | 1@77  | 20.84                | 21.84     | 0.1528  |



## 5GNR N71

## Transmitter Conducted Output Power And ERP, (GT - LC)=1.54db

| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation           | RB    | Conducted Power(dBm) | ERP(dBm) | ERP(W) |
|---------|-----|-----------|--------|-----------|----------------------|-------|----------------------|----------|--------|
| 71      | 15  | 5         | 133100 | 665.5     | DFT-s-OFDM QPSK      | 1@1   | 23.57                | 22.96    | 0.1977 |
| 71      | 15  | 5         | 133100 | 665.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.56                | 21.95    | 0.1567 |
| 71      | 15  | 5         | 136100 | 680.5     | DFT-s-OFDM QPSK      | 1@1   | 23.37                | 22.76    | 0.1888 |
| 71      | 15  | 5         | 136100 | 680.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.48                | 21.87    | 0.1538 |
| 71      | 15  | 5         | 139100 | 695.5     | DFT-s-OFDM QPSK      | 1@1   | 23.5                 | 22.89    | 0.1945 |
| 71      | 15  | 5         | 139100 | 695.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.44                | 21.83    | 0.1524 |
| 71      | 15  | 10        | 133600 | 668       | DFT-s-OFDM QPSK      | 1@1   | 23.53                | 22.92    | 0.1959 |
| 71      | 15  | 10        | 133600 | 668       | DFT-s-OFDM 16 QAM    | 1@1   | 22.53                | 21.92    | 0.1556 |
| 71      | 15  | 10        | 136100 | 680.5     | DFT-s-OFDM QPSK      | 1@1   | 23.65                | 23.04    | 0.2014 |
| 71      | 15  | 10        | 136100 | 680.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.55                | 21.94    | 0.1563 |
| 71      | 15  | 10        | 138600 | 693       | DFT-s-OFDM QPSK      | 1@1   | 23.47                | 22.86    | 0.1932 |
| 71      | 15  | 10        | 138600 | 693       | DFT-s-OFDM 16 QAM    | 1@1   | 22.53                | 21.92    | 0.1556 |
| 71      | 15  | 15        | 134100 | 670.5     | DFT-s-OFDM QPSK      | 1@1   | 23.54                | 22.93    | 0.1963 |
| 71      | 15  | 15        | 134100 | 670.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.66                | 22.05    | 0.1603 |
| 71      | 15  | 15        | 136100 | 680.5     | DFT-s-OFDM QPSK      | 1@1   | 23.62                | 23.01    | 0.2000 |
| 71      | 15  | 15        | 136100 | 680.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.67                | 22.06    | 0.1607 |
| 71      | 15  | 15        | 138100 | 690.5     | DFT-s-OFDM QPSK      | 1@1   | 23.63                | 23.02    | 0.2004 |
| 71      | 15  | 15        | 138100 | 690.5     | DFT-s-OFDM 16 QAM    | 1@1   | 22.69                | 22.08    | 0.1614 |
| 71      | 15  | 20        | 134600 | 673       | DFT-s-OFDM PI/2 BPSK | 50@25 | 23.63                | 23.02    | 0.2004 |
| 71      | 15  | 20        | 134600 | 673       | DFT-s-OFDM PI/2 BPSK | 1@1   | 23.47                | 22.86    | 0.1932 |
| 71      | 15  | 20        | 134600 | 673       | DFT-s-OFDM PI/2 BPSK | 1@104 | 23.46                | 22.85    | 0.1928 |
| 71      | 15  | 20        | 134600 | 673       | DFT-s-OFDM QPSK      | 50@25 | 23.56                | 22.95    | 0.1972 |
| 71      | 15  | 20        | 134600 | 673       | DFT-s-OFDM QPSK      | 1@1   | 23.48                | 22.87    | 0.1936 |
| 71      | 15  | 20        | 134600 | 673       | DFT-s-OFDM QPSK      | 1@104 | 23.6                 | 22.99    | 0.1991 |
| 71      | 15  | 20        | 134600 | 673       | DFT-s-OFDM 16 QAM    | 50@25 | 22.54                | 21.93    | 0.1560 |
| 71      | 15  | 20        | 134600 | 673       | DFT-s-OFDM 16 QAM    | 1@1   | 22.55                | 21.94    | 0.1563 |
| 71      | 15  | 20        | 134600 | 673       | DFT-s-OFDM 16 QAM    | 1@104 | 22.57                | 21.96    | 0.1570 |
| 71      | 15  | 20        | 134600 | 673       | DFT-s-OFDM 64 QAM    | 50@25 | 21.02                | 20.41    | 0.1099 |
| 71      | 15  | 20        | 134600 | 673       | DFT-s-OFDM 64 QAM    | 1@1   | 21.15                | 20.54    | 0.1132 |
| 71      | 15  | 20        | 134600 | 673       | DFT-s-OFDM 64 QAM    | 1@104 | 21.2                 | 20.59    | 0.1146 |
| 71      | 15  | 20        | 134600 | 673       | DFT-s-OFDM 256 QAM   | 50@25 | 18.74                | 18.13    | 0.0650 |
| 71      | 15  | 20        | 134600 | 673       | DFT-s-OFDM 256 QAM   | 1@1   | 18.72                | 18.11    | 0.0647 |
| 71      | 15  | 20        | 134600 | 673       | DFT-s-OFDM 256 QAM   | 1@104 | 18.94                | 18.33    | 0.0681 |
| 71      | 15  | 20        | 134600 | 673       | CP-OFDM QPSK         | 53@26 | 22.06                | 21.45    | 0.1396 |
| 71      | 15  | 20        | 134600 | 673       | CP-OFDM QPSK         | 1@1   | 22.06                | 21.45    | 0.1396 |
| 71      | 15  | 20        | 134600 | 673       | CP-OFDM QPSK         | 1@104 | 22.13                | 21.52    | 0.1419 |
| 71      | 15  | 20        | 136100 | 680.5     | DFT-s-OFDM PI/2 BPSK | 50@25 | 23.65                | 23.04    | 0.2014 |
| 71      | 15  | 20        | 136100 | 680.5     | DFT-s-OFDM PI/2 BPSK | 1@1   | 23.49                | 22.88    | 0.1941 |
| 71      | 15  | 20        | 136100 | 680.5     | DFT-s-OFDM PI/2 BPSK | 1@104 | 23.36                | 22.75    | 0.1884 |
| 71      | 15  | 20        | 136100 | 680.5     | DFT-s-OFDM QPSK      | 50@25 | 23.58                | 22.97    | 0.1982 |
| 71      | 15  | 20        | 136100 | 680.5     | DFT-s-OFDM QPSK      | 1@1   | 23.62                | 23.01    | 0.2000 |



|    |    |    |        |       |                      |       |       |       |        |
|----|----|----|--------|-------|----------------------|-------|-------|-------|--------|
| 71 | 15 | 20 | 136100 | 680.5 | DFT-s-OFDM QPSK      | 1@104 | 23.5  | 22.89 | 0.1945 |
| 71 | 15 | 20 | 136100 | 680.5 | DFT-s-OFDM 16 QAM    | 50@25 | 22.62 | 22.01 | 0.1589 |
| 71 | 15 | 20 | 136100 | 680.5 | DFT-s-OFDM 16 QAM    | 1@1   | 22.62 | 22.01 | 0.1589 |
| 71 | 15 | 20 | 136100 | 680.5 | DFT-s-OFDM 16 QAM    | 1@104 | 22.7  | 22.09 | 0.1618 |
| 71 | 15 | 20 | 136100 | 680.5 | DFT-s-OFDM 64 QAM    | 50@25 | 21.13 | 20.52 | 0.1127 |
| 71 | 15 | 20 | 136100 | 680.5 | DFT-s-OFDM 64 QAM    | 1@1   | 21.23 | 20.62 | 0.1153 |
| 71 | 15 | 20 | 136100 | 680.5 | DFT-s-OFDM 64 QAM    | 1@104 | 21.3  | 20.69 | 0.1172 |
| 71 | 15 | 20 | 136100 | 680.5 | DFT-s-OFDM 256 QAM   | 50@25 | 19.14 | 18.53 | 0.0713 |
| 71 | 15 | 20 | 136100 | 680.5 | DFT-s-OFDM 256 QAM   | 1@1   | 18.8  | 18.19 | 0.0659 |
| 71 | 15 | 20 | 136100 | 680.5 | DFT-s-OFDM 256 QAM   | 1@104 | 18.97 | 18.36 | 0.0685 |
| 71 | 15 | 20 | 136100 | 680.5 | CP-OFDM QPSK         | 53@26 | 22.19 | 21.58 | 0.1439 |
| 71 | 15 | 20 | 136100 | 680.5 | CP-OFDM QPSK         | 1@1   | 22.11 | 21.5  | 0.1413 |
| 71 | 15 | 20 | 136100 | 680.5 | CP-OFDM QPSK         | 1@104 | 22.14 | 21.53 | 0.1422 |
| 71 | 15 | 20 | 137600 | 688   | DFT-s-OFDM PI/2 BPSK | 50@25 | 23.62 | 23.01 | 0.2000 |
| 71 | 15 | 20 | 137600 | 688   | DFT-s-OFDM PI/2 BPSK | 1@1   | 23.58 | 22.97 | 0.1982 |
| 71 | 15 | 20 | 137600 | 688   | DFT-s-OFDM PI/2 BPSK | 1@104 | 23.31 | 22.7  | 0.1862 |
| 71 | 15 | 20 | 137600 | 688   | DFT-s-OFDM QPSK      | 50@25 | 23.65 | 23.04 | 0.2014 |
| 71 | 15 | 20 | 137600 | 688   | DFT-s-OFDM QPSK      | 1@1   | 23.69 | 23.08 | 0.2032 |
| 71 | 15 | 20 | 137600 | 688   | DFT-s-OFDM QPSK      | 1@104 | 23.4  | 22.79 | 0.1901 |
| 71 | 15 | 20 | 137600 | 688   | DFT-s-OFDM 16 QAM    | 50@25 | 22.64 | 22.03 | 0.1596 |
| 71 | 15 | 20 | 137600 | 688   | DFT-s-OFDM 16 QAM    | 1@1   | 22.66 | 22.05 | 0.1603 |
| 71 | 15 | 20 | 137600 | 688   | DFT-s-OFDM 16 QAM    | 1@104 | 22.48 | 21.87 | 0.1538 |
| 71 | 15 | 20 | 137600 | 688   | DFT-s-OFDM 64 QAM    | 50@25 | 21.25 | 20.64 | 0.1159 |
| 71 | 15 | 20 | 137600 | 688   | DFT-s-OFDM 64 QAM    | 1@1   | 21.23 | 20.62 | 0.1153 |
| 71 | 15 | 20 | 137600 | 688   | DFT-s-OFDM 64 QAM    | 1@104 | 21.1  | 20.49 | 0.1119 |
| 71 | 15 | 20 | 137600 | 688   | DFT-s-OFDM 256 QAM   | 50@25 | 19.06 | 18.45 | 0.0700 |
| 71 | 15 | 20 | 137600 | 688   | DFT-s-OFDM 256 QAM   | 1@1   | 18.79 | 18.18 | 0.0658 |
| 71 | 15 | 20 | 137600 | 688   | DFT-s-OFDM 256 QAM   | 1@104 | 18.69 | 18.08 | 0.0643 |
| 71 | 15 | 20 | 137600 | 688   | CP-OFDM QPSK         | 53@26 | 22.14 | 21.53 | 0.1422 |
| 71 | 15 | 20 | 137600 | 688   | CP-OFDM QPSK         | 1@1   | 22.13 | 21.52 | 0.1419 |
| 71 | 15 | 20 | 137600 | 688   | CP-OFDM QPSK         | 1@104 | 21.95 | 21.34 | 0.1361 |



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

|                 |         |                     |         |
|-----------------|---------|---------------------|---------|
| Test Engineer : | ZhangXu | Temperature :       | 22~23°C |
|                 |         | Relative Humidity : | 40~42%  |

Note: Pre-scanned harmonic for the different antenna combinations, we choose the worst antenna mode to perform final test.

| n7 SA / NR 40MHz / QPSK(ANT0) |                   |              |               |                   |                   |                    |                      |                       |                    |
|-------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                       | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                        | 5033.00           | -59.69       | -25           | -34.69            | -79.13            | -65.25             | 7.14                 | 12.70                 | H                  |
|                               | 7549.50           | -55.60       | -25           | -30.60            | -80.16            | -58.90             | 8.30                 | 11.60                 | H                  |
|                               | 10066.00          | -52.06       | -25           | -27.06            | -81.02            | -53.58             | 10.48                | 12.00                 | H                  |
|                               | 5033.00           | -59.86       | -25           | -34.86            | -79.23            | -65.42             | 7.14                 | 12.70                 | V                  |
|                               | 7549.50           | -55.19       | -25           | -30.19            | -80.2             | -58.49             | 8.30                 | 11.60                 | V                  |
|                               | 10066.00          | -53.31       | -25           | -28.31            | -80.87            | -54.83             | 10.48                | 12.00                 | V                  |

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

| EN-DC_13A_n7A / LTE 10MHz + NR 40MHz / QPSK (ANT0+0) |                   |              |               |                   |                   |                    |                      |                       |                    |
|------------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                              | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n7 Middle                                         | 5033.00           | -58.79       | -25           | -33.79            | -78.23            | -64.35             | 7.14                 | 12.70                 | H                  |
|                                                      | 7549.50           | -54.21       | -25           | -29.21            | -78.77            | -57.51             | 8.30                 | 11.60                 | H                  |
|                                                      | 10066.00          | -51.18       | -25           | -26.18            | -80.14            | -52.70             | 10.48                | 12.00                 | H                  |
|                                                      | 5033.00           | -58.70       | -25           | -33.70            | -78.07            | -64.26             | 7.14                 | 12.70                 | V                  |
|                                                      | 7549.50           | -53.91       | -25           | -28.91            | -78.92            | -57.21             | 8.30                 | 11.60                 | V                  |
|                                                      | 10066.00          | -52.62       | -25           | -27.62            | -80.18            | -54.14             | 10.48                | 12.00                 | V                  |
| LTE Band13 Middle                                    | 1555              | -63.27       | -13           | -50.27            | -72.18            | -3.25              | 4.00                 | 9.40                  | H                  |
|                                                      | 2332.5            | -40.33       | -13           | -27.33            | -52.20            | -3.57              | 4.88                 | 10.60                 | H                  |
|                                                      | 3110              | -60.28       | -13           | -47.28            | -74.69            | -4.93              | 5.52                 | 12.60                 | H                  |
|                                                      | 1555              | -64.18       | -13           | -51.18            | -72.86            | -3.25              | 4.00                 | 9.40                  | V                  |
|                                                      | 2332.5            | -63.15       | -13           | -50.15            | -75.05            | -3.57              | 4.88                 | 10.60                 | V                  |
|                                                      | 3110              | -60.66       | -13           | -47.66            | -74.88            | -4.93              | 5.52                 | 12.60                 | V                  |

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



| n12 SA / NR 15MHz / QPSK(ANT0) |                   |             |               |                   |                   |                    |                      |                       |                    |
|--------------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                        | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                         | 1401.3            | -63.60      | -13           | -50.60            | -72.29            | -66.85             | 4.00                 | 9.40                  | H                  |
|                                | 2102              | -49.17      | -13           | -36.17            | -60.35            | -52.74             | 4.88                 | 10.60                 | H                  |
|                                | 2802.6            | -62.70      | -13           | -49.70            | -76.21            | -67.63             | 5.52                 | 12.60                 | H                  |
|                                | 1401.3            | -61.37      | -13           | -48.37            | -69.96            | -64.62             | 4.00                 | 9.40                  | V                  |
|                                | 2102              | -53.31      | -13           | -40.31            | -64.72            | -56.88             | 4.88                 | 10.60                 | V                  |
|                                | 2802.6            | -62.53      | -13           | -49.53            | -75.97            | -67.46             | 5.52                 | 12.60                 | V                  |

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

| EN-DC_48A_n12A / LTE 10MHz + NR 15MHz / QPSK (ANT2+0) |                   |             |               |                   |                   |                    |                      |                       |                    |
|-------------------------------------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                               | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n12 Middle                                         | 1401.3            | -68.04      | -13           | -55.04            | -48.45            | -71.29             | 4.00                 | 9.40                  | H                  |
|                                                       | 2102              | -65.72      | -13           | -52.72            | -46.82            | -69.29             | 4.88                 | 10.60                 | H                  |
|                                                       | 2802.6            | -65.59      | -13           | -52.59            | -48.83            | -70.52             | 5.52                 | 12.60                 | H                  |
|                                                       | 1401.3            | -68.35      | -13           | -55.35            | -48.66            | -71.60             | 4.00                 | 9.40                  | V                  |
|                                                       | 2102              | -64.76      | -13           | -51.76            | -46.09            | -68.33             | 4.88                 | 10.60                 | V                  |
|                                                       | 2802.6            | -65.44      | -13           | -52.44            | -48.61            | -70.37             | 5.52                 | 12.60                 | V                  |
| LTE Band48 Middle                                     | 7241.00           | -58.17      | -40           | -18.17            | -50.86            | -61.47             | 8.30                 | 11.60                 | H                  |
|                                                       | 10861.50          | -54.96      | -40           | -14.96            | -54.03            | -56.48             | 10.48                | 12.00                 | H                  |
|                                                       | 14482.00          | -55.09      | -40           | -15.09            | -56.23            | -56.79             | 11.80                | 13.50                 | H                  |
|                                                       | 7241.00           | -57.64      | -40           | -17.64            | -51.07            | -60.94             | 8.30                 | 11.60                 | V                  |
|                                                       | 10861.50          | -55.60      | -40           | -15.60            | -54.21            | -57.12             | 10.48                | 12.00                 | V                  |
|                                                       | 14482.00          | -53.78      | -40           | -13.78            | -56.59            | -55.48             | 11.80                | 13.50                 | V                  |

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

| n13 SA / NR 10MHz / QPSK(ANT0) |                   |              |               |                   |                   |                    |                      |                       |                    |
|--------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                        | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                         | 1546              | -64.80       | -13           | -51.80            | -73.70            | -68.05             | 4.00                 | 9.40                  | H                  |
|                                | 2319              | -64.20       | -13           | -51.20            | -76.10            | -67.77             | 4.88                 | 10.60                 | H                  |
|                                | 3092              | -62.44       | -13           | -49.44            | -76.77            | -67.37             | 5.52                 | 12.60                 | H                  |
|                                | 1546              | -65.09       | -13           | -52.09            | -73.78            | -68.34             | 4.00                 | 9.40                  | V                  |
|                                | 2319              | -64.40       | -13           | -51.40            | -76.36            | -67.97             | 4.88                 | 10.60                 | V                  |
|                                | 3092              | -62.53       | -13           | -49.53            | -76.70            | -67.46             | 5.52                 | 12.60                 | V                  |

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



| n25 SA / NR 40MHz / QPSK(ANT0) |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|--------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                        | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                         | 3726                 | -62.29          | -13              | -49.29                  | -77.81                  | -69.04                   | 5.85                       | 12.60                       | H                     |
|                                | 5589                 | -60.65          | -13              | -47.65                  | -79.99                  | -66.45                   | 7.30                       | 13.10                       | H                     |
|                                | 7452                 | -54.53          | -13              | -41.53                  | -79.27                  | -57.68                   | 8.35                       | 11.50                       | H                     |
|                                | 3726                 | -62.37          | -13              | -49.37                  | -77.56                  | -69.12                   | 5.85                       | 12.60                       | V                     |
|                                | 5589                 | -60.59          | -13              | -47.59                  | -79.77                  | -66.39                   | 7.30                       | 13.10                       | V                     |
|                                | 7452                 | -54.20          | -13              | -41.20                  | -79.3                   | -57.35                   | 8.35                       | 11.50                       | V                     |

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

| EN-DC_48A_n25A / LTE 10MHz + NR 40MHz / QPSK (ANT2+0) |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|-------------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                               | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| NR n25<br>Middle                                      | 3726                 | -63.56          | -13              | -50.56                  | -48.19                  | -70.31                   | 5.85                       | 12.60                       | H                     |
|                                                       | 5589                 | -63.60          | -13              | -50.60                  | -50.71                  | -69.40                   | 7.30                       | 13.10                       | H                     |
|                                                       | 7452                 | -58.29          | -13              | -45.29                  | -51.69                  | -61.44                   | 8.35                       | 11.50                       | H                     |
|                                                       | 3726                 | -64.89          | -13              | -51.89                  | -49.19                  | -71.64                   | 5.85                       | 12.60                       | V                     |
|                                                       | 5589                 | -63.74          | -13              | -50.74                  | -50.69                  | -69.54                   | 7.30                       | 13.10                       | V                     |
|                                                       | 7452                 | -56.73          | -13              | -43.73                  | -50.49                  | -59.88                   | 8.35                       | 11.50                       | V                     |
| LTE<br>Band48<br>Middle                               | 7241.00              | -58.67          | -40              | -18.67                  | -51.36                  | -61.97                   | 8.30                       | 11.60                       | H                     |
|                                                       | 10861.50             | -54.61          | -40              | -14.61                  | -53.68                  | -56.13                   | 10.48                      | 12.00                       | H                     |
|                                                       | 14482.00             | -53.25          | -40              | -13.25                  | -54.39                  | -54.95                   | 11.80                      | 13.50                       | H                     |
|                                                       | 7241.00              | -58.16          | -40              | -18.16                  | -51.59                  | -61.46                   | 8.30                       | 11.60                       | V                     |
|                                                       | 10861.50             | -55.10          | -40              | -15.10                  | -53.71                  | -56.62                   | 10.48                      | 12.00                       | V                     |
|                                                       | 14482.00             | -51.38          | -40              | -11.38                  | -54.19                  | -53.08                   | 11.80                      | 13.50                       | V                     |

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



| n26 SA / NR 40MHz / QPSK(ANT0) |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|--------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                        | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                         | 1654                 | -65.96          | -13              | -52.96                  | -73.76                  | -69.21                   | 4.00                       | 9.40                        | H                     |
|                                | 2481                 | -63.24          | -13              | -50.24                  | -74.99                  | -66.81                   | 4.88                       | 10.60                       | H                     |
|                                | 3308                 | -61.49          | -13              | -48.49                  | -75.92                  | -66.42                   | 5.52                       | 12.60                       | H                     |
|                                | 1654                 | -65.13          | -13              | -52.13                  | -73.01                  | -68.38                   | 4.00                       | 9.40                        | V                     |
|                                | 2481                 | -61.86          | -13              | -48.86                  | -73.66                  | -65.43                   | 4.88                       | 10.60                       | V                     |
|                                | 3308                 | -61.88          | -13              | -48.88                  | -76.25                  | -66.81                   | 5.52                       | 12.60                       | V                     |

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

| EN-DC_48A_n26A / LTE 10MHz + NR 40MHz / QPSK (ANT2+0) |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|-------------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                               | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| NR n26<br>Middle                                      | 1654.5               | -62.29          | -13              | -49.29                  | -40.95                  | -65.54                   | 4.00                       | 9.40                        | H                     |
|                                                       | 2481.75              | -48.41          | -13              | -35.41                  | -30.14                  | -51.98                   | 4.88                       | 10.60                       | H                     |
|                                                       | 3309                 | -65.26          | -13              | -52.26                  | -49.04                  | -70.19                   | 5.52                       | 12.60                       | H                     |
|                                                       | 1654.5               | -54.57          | -13              | -41.57                  | -33.31                  | -57.82                   | 4.00                       | 9.40                        | V                     |
|                                                       | 2481.75              | -44.18          | -13              | -31.18                  | -25.97                  | -47.75                   | 4.88                       | 10.60                       | V                     |
|                                                       | 3309                 | -65.20          | -13              | -52.20                  | -48.92                  | -70.13                   | 5.52                       | 12.60                       | V                     |
| LTE<br>Band48<br>Middle                               | 7241.00              | -58.32          | -40              | -18.32                  | -51.01                  | -61.62                   | 8.30                       | 11.60                       | H                     |
|                                                       | 10861.50             | -54.97          | -40              | -14.97                  | -54.04                  | -56.49                   | 10.48                      | 12.00                       | H                     |
|                                                       | 14482.00             | -56.54          | -40              | -16.54                  | -57.68                  | -58.24                   | 11.80                      | 13.50                       | H                     |
|                                                       | 7241.00              | -57.93          | -40              | -17.93                  | -51.36                  | -61.23                   | 8.30                       | 11.60                       | V                     |
|                                                       | 10861.50             | -55.39          | -40              | -15.39                  | -54                     | -56.91                   | 10.48                      | 12.00                       | V                     |
|                                                       | 14482.00             | -54.45          | -40              | -14.45                  | -57.26                  | -56.15                   | 11.80                      | 13.50                       | V                     |

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



| n41 SA / NR 100MHz / QPSK(ANT0) |                   |              |               |                   |                   |                    |                      |                       |                    |
|---------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                         | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                          | 5089.00           | -59.19       | -25           | -34.19            | -78.69            | -64.75             | 7.14                 | 12.70                 | H                  |
|                                 | 7633.50           | -55.35       | -25           | -30.35            | -79.70            | -58.65             | 8.30                 | 11.60                 | H                  |
|                                 | 10178.00          | -51.70       | -25           | -26.70            | -80.58            | -53.22             | 10.48                | 12.00                 | H                  |
|                                 | 5089.00           | -59.54       | -25           | -34.54            | -78.87            | -65.10             | 7.14                 | 12.70                 | V                  |
|                                 | 7633.50           | -55.23       | -25           | -30.23            | -80.11            | -58.53             | 8.30                 | 11.60                 | V                  |
|                                 | 10178.00          | -53.22       | -25           | -28.22            | -80.87            | -54.74             | 10.48                | 12.00                 | V                  |

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

| EN-DC_71A_n41A / LTE 10MHz + NR 100MHz / QPSK (ANT0+2) |                   |              |               |                   |                   |                    |                      |                       |                    |
|--------------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                                | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n41 Middle                                          | 5088.00           | -58.63       | -25           | -33.63            | -78.13            | -64.19             | 7.14                 | 12.70                 | H                  |
|                                                        | 7632.00           | -53.95       | -25           | -28.95            | -78.30            | -57.25             | 8.30                 | 11.60                 | H                  |
|                                                        | 10176.00          | -50.49       | -25           | -25.49            | -79.37            | -52.01             | 10.48                | 12.00                 | H                  |
|                                                        | 5088.00           | -58.75       | -25           | -33.75            | -78.08            | -64.31             | 7.14                 | 12.70                 | V                  |
|                                                        | 7632.00           | -53.81       | -25           | -28.81            | -78.69            | -57.11             | 8.30                 | 11.60                 | V                  |
|                                                        | 10176.00          | -51.94       | -25           | -26.94            | -79.59            | -53.46             | 10.48                | 12.00                 | V                  |
| LTE Band71 Middle                                      | 1352              | -63.95       | -13           | -50.95            | -72.00            | -67.20             | 4.00                 | 9.40                  | H                  |
|                                                        | 2028              | -63.38       | -13           | -50.38            | -73.81            | -66.95             | 4.88                 | 10.60                 | H                  |
|                                                        | 2704              | -56.60       | -13           | -43.60            | -69.63            | -61.53             | 5.52                 | 12.60                 | H                  |
|                                                        | 1352              | -64.36       | -13           | -51.36            | -72.34            | -67.61             | 4.00                 | 9.40                  | V                  |
|                                                        | 2028              | -64.25       | -13           | -51.25            | -74.81            | -67.82             | 4.88                 | 10.60                 | V                  |
|                                                        | 2704              | -60.85       | -13           | -47.85            | -73.77            | -65.78             | 5.52                 | 12.60                 | V                  |

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

| n41 UL MIMO / NR 100MHz / QPSK(ANT2+0) |                   |              |               |                   |                   |                    |                      |                       |                    |
|----------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                                 | 5089.00           | -58.37       | -25           | -33.37            | -77.87            | -63.93             | 7.14                 | 12.70                 | H                  |
|                                        | 7633.50           | -50.10       | -25           | -25.10            | -74.45            | -53.40             | 8.30                 | 11.60                 | H                  |
|                                        | 10178.00          | -50.89       | -25           | -25.89            | -79.77            | -52.41             | 10.48                | 12.00                 | H                  |
|                                        | 5089.00           | -58.48       | -25           | -33.48            | -77.81            | -64.04             | 7.14                 | 12.70                 | V                  |
|                                        | 7633.50           | -51.39       | -25           | -26.39            | -76.27            | -54.69             | 8.30                 | 11.60                 | V                  |
|                                        | 10178.00          | -51.80       | -25           | -26.80            | -79.45            | -53.32             | 10.48                | 12.00                 | V                  |

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



| n66 SA / NR 40MHz / QPSK(ANT0) |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|--------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                        | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                         | 3452.5               | -61.82          | -13              | -48.82                  | -76.28                  | -68.67                   | 5.65                       | 12.50                       | H                     |
|                                | 5178.74              | -60.76          | -13              | -47.76                  | -80.36                  | -66.43                   | 7.13                       | 12.80                       | H                     |
|                                | 6905                 | -57.80          | -13              | -44.80                  | -80.62                  | -61.20                   | 8.40                       | 11.80                       | H                     |
|                                | 3452.5               | -62.34          | -13              | -49.34                  | -76.83                  | -69.19                   | 5.65                       | 12.50                       | V                     |
|                                | 5178.74              | -61.22          | -13              | -48.22                  | -80.48                  | -66.89                   | 7.13                       | 12.80                       | V                     |
|                                | 6905                 | -56.96          | -13              | -43.96                  | -80.11                  | -60.36                   | 8.40                       | 11.80                       | V                     |

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

| EN-DC_48A_n66A / LTE 10MHz + NR 40MHz / QPSK (ANT2+0) |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|-------------------------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                               | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| NR n66<br>Middle                                      | 3452.5               | -61.52          | -13              | -48.52                  | -45.23                  | -68.37                   | 5.65                       | 12.50                       | H                     |
|                                                       | 5178.74              | -64.54          | -13              | -51.54                  | -51.89                  | -70.21                   | 7.13                       | 12.80                       | H                     |
|                                                       | 6905                 | -59.10          | -13              | -46.10                  | -50.66                  | -62.50                   | 8.40                       | 11.80                       | H                     |
|                                                       | 3452.5               | -62.01          | -13              | -49.01                  | -45.75                  | -68.86                   | 5.65                       | 12.50                       | V                     |
|                                                       | 5178.74              | -64.82          | -13              | -51.82                  | -51.83                  | -70.49                   | 7.13                       | 12.80                       | V                     |
|                                                       | 6905                 | -58.94          | -13              | -45.94                  | -50.83                  | -62.34                   | 8.40                       | 11.80                       | V                     |
| LTE<br>Band48<br>Middle                               | 7241.00              | -58.15          | -40              | -18.15                  | -50.84                  | -61.45                   | 8.30                       | 11.60                       | H                     |
|                                                       | 10861.50             | -55.14          | -40              | -15.14                  | -54.21                  | -56.66                   | 10.48                      | 12.00                       | H                     |
|                                                       | 14482.00             | -56.12          | -40              | -16.12                  | -57.26                  | -57.82                   | 11.80                      | 13.50                       | H                     |
|                                                       | 7241.00              | -57.60          | -40              | -17.60                  | -51.03                  | -60.90                   | 8.30                       | 11.60                       | V                     |
|                                                       | 10861.50             | -55.65          | -40              | -15.65                  | -54.26                  | -57.17                   | 10.48                      | 12.00                       | V                     |
|                                                       | 14482.00             | -54.32          | -40              | -14.32                  | -57.13                  | -56.02                   | 11.80                      | 13.50                       | V                     |

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



| n70 SA / NR 15MHz / QPSK(ANT2) |                   |              |               |                   |                   |                    |                      |                       |                    |
|--------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                        | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                         | 3390              | -62.01       | -13           | -49.01            | -76.24            | -68.86             | 5.65                 | 12.50                 | H                  |
|                                | 5086              | -58.98       | -13           | -45.98            | -78.48            | -64.65             | 7.13                 | 12.80                 | H                  |
|                                | 6780              | -58.63       | -13           | -45.63            | -81.26            | -62.03             | 8.40                 | 11.80                 | H                  |
|                                | 3390              | -62.27       | -13           | -49.27            | -76.51            | -69.12             | 5.65                 | 12.50                 | V                  |
|                                | 5086              | -59.73       | -13           | -46.73            | -79.06            | -65.40             | 7.13                 | 12.80                 | V                  |
|                                | 6780              | -57.85       | -13           | -44.85            | -80.98            | -61.25             | 8.40                 | 11.80                 | V                  |

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

| n71 SA / NR 20MHz / QPSK(ANT0) |                   |              |               |                   |                   |                    |                      |                       |                    |
|--------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                        | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                         | 1342.5            | -44.07       | -13           | -31.07            | -51.99            | -47.32             | 4.00                 | 9.40                  | H                  |
|                                | 2013.75           | -38.16       | -13           | -25.16            | -48.45            | -41.73             | 4.88                 | 10.60                 | H                  |
|                                | 2685              | -58.03       | -13           | -45.03            | -70.96            | -62.96             | 5.52                 | 12.60                 | H                  |
|                                | 1342.5            | -57.74       | -13           | -44.74            | -65.59            | -60.99             | 4.00                 | 9.40                  | V                  |
|                                | 2013.75           | -41.51       | -13           | -28.51            | -51.91            | -45.08             | 4.88                 | 10.60                 | V                  |
|                                | 2685              | -58.97       | -13           | -45.97            | -71.78            | -63.90             | 5.52                 | 12.60                 | V                  |

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

| EN-DC_48A_n71A / LTE 10MHz + NR 20MHz / QPSK (ANT0+2) |                   |              |               |                   |                   |                    |                      |                       |                    |
|-------------------------------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                               | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n71 Middle                                         | 1342              | -68.38       | -13           | -55.38            | -48.25            | -71.63             | 4.00                 | 9.40                  | H                  |
|                                                       | 2013              | -53.20       | -13           | -40.20            | -33.38            | -56.77             | 4.88                 | 10.60                 | H                  |
|                                                       | 2684              | -66.19       | -13           | -53.19            | -48.95            | -71.12             | 5.52                 | 12.60                 | H                  |
|                                                       | 1342              | -68.09       | -13           | -55.09            | -47.90            | -71.34             | 4.00                 | 9.40                  | V                  |
|                                                       | 2013              | -57.08       | -13           | -44.08            | -37.38            | -60.65             | 4.88                 | 10.60                 | V                  |
|                                                       | 2684              | -65.90       | -13           | -52.90            | -48.54            | -70.83             | 5.52                 | 12.60                 | V                  |
| LTE Band48 Middle                                     | 7241.00           | -58.21       | -40           | -18.21            | -50.90            | -61.51             | 8.30                 | 11.60                 | H                  |
|                                                       | 10861.50          | -54.92       | -40           | -14.92            | -53.99            | -56.44             | 10.48                | 12.00                 | H                  |
|                                                       | 14482.00          | -55.92       | -40           | -15.92            | -57.06            | -57.62             | 11.80                | 13.50                 | H                  |
|                                                       | 7241.00           | -57.49       | -40           | -17.49            | -50.92            | -60.79             | 8.30                 | 11.60                 | V                  |
|                                                       | 10861.50          | -55.03       | -40           | -15.03            | -53.64            | -56.55             | 10.48                | 12.00                 | V                  |
|                                                       | 14482.00          | -54.27       | -40           | -14.27            | -57.08            | -55.97             | 11.80                | 13.50                 | V                  |

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