



# FCC RF Test Report

APPLICANT : Rolling Wireless S.a r.l.  
EQUIPMENT : 5G Module  
BRAND NAME : Rolling Wireless  
MODEL NAME : RW350R-GL  
FCC ID : 2AX2URW350RGL  
STANDARD : 47 CFR Part 2, 27(M)  
CLASSIFICATION : PCS Licensed Transmitter (PCB)  
TEST DATE(S) : Mar. 30, 2024 ~ May 20, 2024

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



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**People's Republic of China**



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## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FG430728L  | Rev. 01 | Initial issue of report | Jun. 13, 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   | -                                              |
|                | §27.50(h)(2)            | Equivalent Isotropic Radiated Power<br>(5G NR n7, n38, n41) | EIRP < 2Watt                        |        |                                                |
| 3.5            | N/A                     | Peak-to-Average Ratio                                       | <13 dB                              | PASS   | -                                              |
| 3.6            | §2.1049                 | Occupied Bandwidth                                          | Reporting Only                      | PASS   | -                                              |
| 3.7            | §27.53(m)(4)            | Conducted Band Edge Measurement<br>(5G NR n7, n38, n41)     | §27.53(m)(4)                        | PASS   | -                                              |
| 3.8            | §2.1051<br>§27.53(m)(4) | Conducted Spurious Emission<br>(5G NR n7, n38, n41)         | < 55+10log <sub>10</sub> (P[Watts]) | PASS   | -                                              |
| 3.9            | §27.54                  | Frequency Stability<br>Temperature & Voltage                | Within Authorized Band              | PASS   | -                                              |
| 4.4            | §2.1053<br>§27.53(m)(4) | Radiated Spurious Emission<br>(5G NR n7, n38, n41)          | < 55+10log <sub>10</sub> (P[Watts]) | PASS   | Under limit<br>25.13 dB at<br>10354.360<br>MHz |

## Conformity Assessment Condition:

1. 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.
2. 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

**Rolling Wireless S.a r.l.**  
8-10, rue Mathias Hardt 1717, Luxembourg

## 1.2 Manufacturer

**Rolling Wireless S.a r.l.**  
8-10, rue Mathias Hardt 1717, Luxembourg

## 1.3 Product Feature of Equipment Under Test

| Product Feature |                                                                                                          |
|-----------------|----------------------------------------------------------------------------------------------------------|
| Equipment       | 5G Module                                                                                                |
| Brand Name      | Rolling Wireless                                                                                         |
| Model Name      | RW350R-GL                                                                                                |
| FCC ID          | 2AX2URW350RGL                                                                                            |
| IMEI Code       | Conducted: 356413950001763<br>Radiation:<br>356413950000682 for Sample 1<br>356413950000526 for Sample 2 |
| HW Version      | V1.1                                                                                                     |
| SW Version      | 81601.0000.00.29.24.13                                                                                   |
| EUT Stage       | Identical Prototype                                                                                      |

## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tx Frequency</b>                     | 5G NR n7 : 2500 MHz ~ 2570 MHz<br>5G NR n38 : 2570 MHz ~ 2620 MHz<br>5G NR n41 : 2496 MHz ~ 2690 MHz                                                                                                                                                                                                                                                                                                                                              |
| <b>Rx Frequency</b>                     | 5G NR n7 : 2620 MHz ~ 2690 MHz<br>5G NR n38: 2570 MHz ~ 2620 MHz<br>5G NR n41 : 2496 MHz ~ 2690 MHz                                                                                                                                                                                                                                                                                                                                               |
| <b>Bandwidth</b>                        | <b>SCS 15kHz:</b><br>n7: 5MHz / 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz / 50MHz<br>n38: 5MHz / 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz<br>n41 : 10MHz / 15MHz / 20MHz / 30MHz / 40MHz / 50MHz<br><b>SCS 30kHz:</b><br>n7: 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz / 50MHz<br>n38: 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz<br>n41 : 10MHz / 15MHz / 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz |
| <b>SCS</b>                              | 15kHz, 30kHz                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Antenn Type</b>                      | External Monopole Antenna or<br>External PIFA Antenna                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Antenna Gain</b>                     | n7: 3.0 dBi<br>n38: 3.0 dBi<br>n41: 3.0 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 device has two optional antennas, they are same antenna gain, RSE pretest the two antennas, choose worst antenna to perform final test and recorded in the report.
2. There are two samples under test, sample 1 is 1<sup>st</sup> source and sample 2 is 2<sup>nd</sup> source, the detailed differences could be referred to the RW350R-GL\_Operational Description of Product Equality Declaration which is exhibit separately. According to the differences, sample 1 perform full test, sample 2 verify conducted power and found less than sample 1, and sample 2 additional verify the worst case of RSE.
3. 5G NR n7/n38 supports SA mode only and 5G NR n41 support SA and NSA mode, According to the maximum power between SA and NSA mode, SA covers NSA mode.
4. 5G NR bands support SCS 15kHz and SCS 30kHz, for n7/n38 full test SCS 15kHz to cover SCS 30kHz by referring to the maximum output power, n41 full test SCS 15kHz & SCS 30kHz.
5. The device supports two PAs for 5G NR n41(main PA for SA mode and other PA for NSA mode), the maximum power of the main PA is higher than other PA, therefore, we chose higher power of the main PA to calculate the output Power and show in the report.
6. 5G NR n41 SA support HPUE mode.
7. All the supported ENDC combinations are verified conducted power, only the ENDC combination with highest power are shown in the report.
8. 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 Conducted Power and Emission Designator

| 5G NR n7 _ SCS 15kHz |                       | PI/2 BPSK / QPSK            |                              | 16QAM / 64QAM / 256QAM      |                              |
|----------------------|-----------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|
| BW (MHz)             | Frequency Range (MHz) | Maximum Conducted power (W) | Emission Designator (99%OBW) | Maximum Conducted power (W) | Emission Designator (99%OBW) |
| 5                    | 2502.5 ~ 2567.5       | 0.1954                      | 4M46G7D                      | 0.1535                      | 4M48W7D                      |
| 10                   | 2505.0 ~ 2565.0       | 0.1892                      | 9M29G7D                      | 0.1472                      | 9M29W7D                      |
| 15                   | 2507.5 ~ 2562.5       | 0.1928                      | 14M1G7D                      | 0.1524                      | 14M1W7D                      |
| 20                   | 2510.0 ~ 2560.0       | 0.1932                      | 18M9G7D                      | 0.1503                      | 18M9W7D                      |
| 25                   | 2512.5 ~ 2557.5       | 0.1858                      | 23M8G7D                      | 0.1472                      | 23M8W7D                      |
| 30                   | 2515.0 ~ 2535.0       | 0.1824                      | 28M6G7D                      | 0.1439                      | 28M6W7D                      |
| 40                   | 2520.0 ~ 2550.0       | 0.1738                      | 38M5G7D                      | 0.1358                      | 38M5W7D                      |
| 50                   | 2525.0 ~ 2545.0       | 0.2000                      | 48M2G7D                      | 0.1545                      | 48M3W7D                      |

| 5G NR n38 _ SCS 15kHz |                       | PI/2 BPSK / QPSK            |                              | 16QAM / 64QAM / 256QAM      |                              |
|-----------------------|-----------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|
| BW (MHz)              | Frequency Range (MHz) | Maximum Conducted power (W) | Emission Designator (99%OBW) | Maximum Conducted power (W) | Emission Designator (99%OBW) |
| 5                     | 2572.5 ~ 2617.5       | 0.2018                      | 4M46G7D                      | 0.1738                      | 4M47W7D                      |
| 10                    | 2575.0 ~ 2615.0       | 0.1986                      | 9M25G7D                      | 0.1521                      | 9M28W7D                      |
| 15                    | 2577.5 ~ 2612.5       | 0.2084                      | 14M1G7D                      | 0.1589                      | 14M1W7D                      |
| 20                    | 2580.0 ~ 2610.0       | 0.2051                      | 18M9G7D                      | 0.1549                      | 18M9W7D                      |
| 25                    | 2582.5 ~ 2607.5       | 0.1963                      | 23M7G7D                      | 0.1486                      | 23M8W7D                      |
| 30                    | 2585.0 ~ 2605.0       | 0.1905                      | 28M5G7D                      | 0.1449                      | 28M5W7D                      |
| 40                    | 2590.0 ~ 2600.0       | 0.2089                      | 38M6G7D                      | 0.1667                      | 38M5W7D                      |



| 5G NR n41 – SCS 15k |                       | PI/2 BPSK / QPSK            |                              | 16QAM / 64QAM / 256QAM      |                              |
|---------------------|-----------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|
| BW (MHz)            | Frequency Range (MHz) | Maximum Conducted power (W) | Emission Designator (99%OBW) | Maximum Conducted power (W) | Emission Designator (99%OBW) |
| 10                  | 2501.01 ~ 2685.00     | 0.3724                      | 9M25G7D                      | 0.2754                      | 9M28W7D                      |
| 15                  | 2503.50 ~ 2682.495    | 0.3999                      | 14M1G7D                      | 0.2985                      | 14M1W7D                      |
| 20                  | 2506.005 ~ 2679.99    | 0.3908                      | 18M9G7D                      | 0.2958                      | 18M9W7D                      |
| 30                  | 2511.00 ~ 2674.995    | 0.3673                      | 28M5G7D                      | 0.2748                      | 28M5W7D                      |
| 40                  | 2516.01 ~ 2670.00     | 0.3396                      | 38M6G7D                      | 0.2564                      | 38M5W7D                      |
| 50                  | 2521.005 ~ 2664.99    | 0.4074                      | 48M4G7D                      | 0.3251                      | 48M2W7D                      |

| 5G NR n41 – SCS 30k |                       | PI/2 BPSK / QPSK            |                              | 16QAM / 64QAM / 256QAM      |                              |
|---------------------|-----------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|
| BW (MHz)            | Frequency Range (MHz) | Maximum Conducted power (W) | Emission Designator (99%OBW) | Maximum Conducted power (W) | Emission Designator (99%OBW) |
| 10                  | 2501.01 ~ 2685.00     | 0.4009                      | 8M55G7D                      | 0.3199                      | 8M57W7D                      |
| 15                  | 2503.50 ~ 2682.48     | 0.3945                      | 13M6G7D                      | 0.3097                      | 13M6W7D                      |
| 20                  | 2506.02 ~ 2679.99     | 0.3999                      | 18M2G7D                      | 0.3177                      | 18M2W7D                      |
| 30                  | 2511.00 ~ 2674.98     | 0.3811                      | 27M8G7D                      | 0.3048                      | 27M9W7D                      |
| 40                  | 2516.01 ~ 2670.00     | 0.3606                      | 37M9G7D                      | 0.2904                      | 37M8W7D                      |
| 50                  | 2521.02 ~ 2664.99     | 0.3767                      | 47M4G7D                      | 0.3006                      | 47M5W7D                      |
| 60                  | 2526.00 ~ 2659.98     | 0.3698                      | 58M0G7D                      | 0.3006                      | 57M9W7D                      |
| 70                  | 2531.01 ~ 2655.00     | 0.3412                      | 67M5G7D                      | 0.2754                      | 67M7W7D                      |
| 80                  | 2536.02 ~ 2649.99     | 0.3342                      | 77M4G7D                      | 0.2559                      | 77M5W7D                      |
| 90                  | 2541.00 ~ 2644.98     | 0.3273                      | 87M3G7D                      | 0.2483                      | 87M4W7D                      |
| 100                 | 2546.01 ~ 2640.00     | 0.4027                      | 97M4G7D                      | 0.3177                      | 97M7W7D                      |

**Note:**

1. 5G NR Band n41 overlaps the entire frequency range of Band n38. Therefore, the conducted test results provided in this report covers Band n41 as well as Band n38, and n38 additional test BW 5M/25MHz.
2. 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   | 6.2009-8-24 |

## 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 2, 27(M)
- ♦ 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.

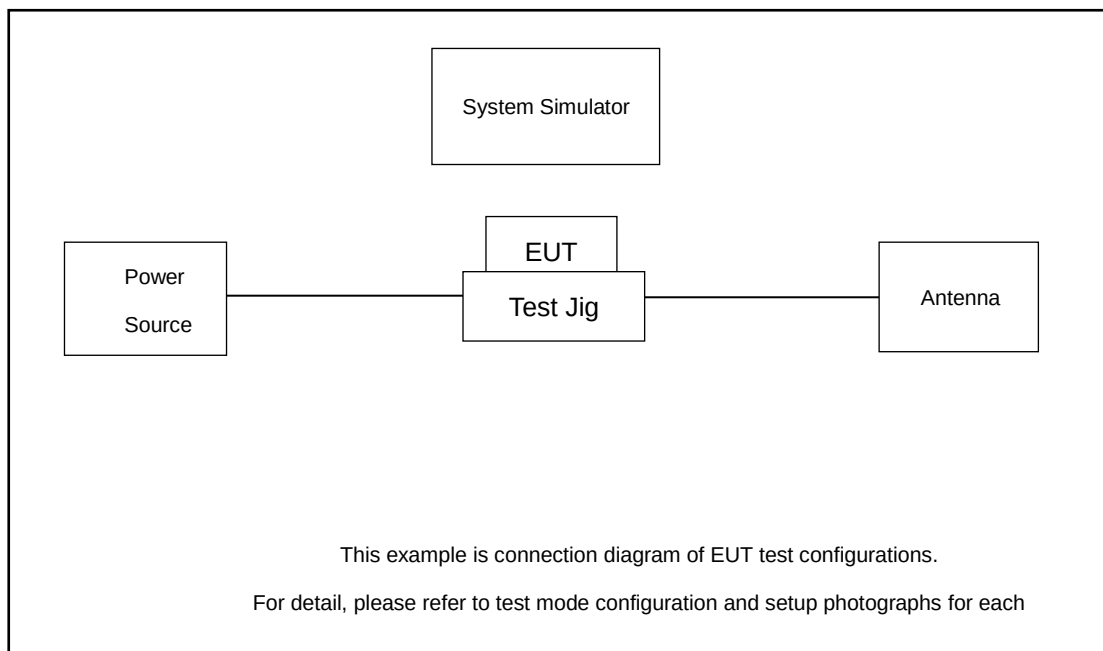
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

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 | 35 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | PI/2 BPSK  | QPSK | 16 QAM | 64 QAM | 256 QAM | 1    | Full | L            | M | H |   |
| Max. Output Power           | n7                                                                                                                                                                                                                                           | v               | v  | v  | v  | 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 | v |   |
|                             | n41                                                                                                                                                                                                                                          | -               | v  | v  | v  | -  | v  | -  | v  | v  | v  | v  | v  | v  | v   | v          | v    | v      | v      | v       | v    | v    | v            | v | v |   |
| Peak-to-Average Ratio       | n7                                                                                                                                                                                                                                           |                 |    |    | v  |    |    | -  |    |    | -  | -  | -  | -  | -   | v          | v    |        |        |         |      | v    |              | v |   |   |
|                             | n41                                                                                                                                                                                                                                          | -               |    |    | v  | -  | -  | -  |    |    |    |    |    |    |     | v          | v    |        |        |         |      | v    |              | v |   |   |
| 26dB and 99% Bandwidth      | n7                                                                                                                                                                                                                                           | v               | v  | v  | v  | v  | v  | -  | v  | v  | -  | -  | -  | -  | -   |            | v    | v      | v      | v       |      | v    |              | v |   |   |
|                             | n38                                                                                                                                                                                                                                          | 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 |   |   |
| Conducted Band Edge         | n7                                                                                                                                                                                                                                           | v               |    |    |    | v  |    | -  |    | v  | -  | -  | -  | -  | -   | v          | v    |        |        |         | v    | v    | v            |   | v |   |
|                             | n38                                                                                                                                                                                                                                          | v               |    |    |    | v  |    | -  |    | -  | -  | -  | -  | -  | -   | v          | v    |        |        |         | v    | v    | v            |   | v |   |
|                             | n41                                                                                                                                                                                                                                          | -               | v  |    |    | -  |    | -  |    | v  |    |    |    |    | v   | v          | v    |        |        |         | v    | v    | v            |   | v |   |
| Conducted Spurious Emission | n7                                                                                                                                                                                                                                           | v               |    |    |    | v  |    | -  |    | v  | -  | -  | -  | -  | -   | v          | v    |        |        |         | v    |      | v            | v | v |   |
|                             | n38                                                                                                                                                                                                                                          | v               |    |    |    | v  |    | -  |    | -  | -  | -  | -  | -  | -   | v          | v    |        |        |         | v    |      | v            | v | v |   |
|                             | n41                                                                                                                                                                                                                                          | -               | v  |    |    | -  |    | -  |    | v  |    |    |    |    | v   | v          | v    |        |        |         | v    |      | v            | v | v |   |
| Frequency Stability         | n7                                                                                                                                                                                                                                           |                 |    |    | v  |    |    | -  |    |    | -  | -  | -  | -  | -   |            | v    |        |        |         |      | v    |              | v |   |   |
|                             | n41                                                                                                                                                                                                                                          | -               |    |    | v  | -  |    | -  |    |    |    |    |    |    |     |            | v    |        |        |         |      | v    |              | v |   |   |
| E.R.P / E.I.R.P             | n7                                                                                                                                                                                                                                           | v               | v  | v  | v  | 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 | v |   |
|                             | n41                                                                                                                                                                                                                                          | -               | v  | v  | v  | -  | v  | -  | v  | v  | v  | v  | v  | v  | v   | v          | v    | v      | v      | v       | v    | v    | v            | v | v |   |
| Radiated Spurious Emission  | n7                                                                                                                                                                                                                                           | Worst Case      |    |    |    |    |    |    |    |    |    |    |    |    |     |            |      |        |        |         |      | v    |              |   | v | v |
|                             | n38                                                                                                                                                                                                                                          | Worst Case      |    |    |    |    |    |    |    |    |    |    |    |    |     |            |      |        |        |         |      | v    |              |   | v | v |
|                             | n41                                                                                                                                                                                                                                          | Worst Case      |    |    |    |    |    |    |    |    |    |    |    |    |     |            |      |        |        |         |      | v    |              |   | v | v |
| Note                        | 1. The mark "v " means that this configuration is chosen for testing                                                                                                                                                                         |                 |    |    |    |    |    |    |    |    |    |    |    |    |     |            |      |        |        |         |      |      |              |   |   |   |
|                             | 2. The mark "- " means that this bandwidth is not supported.                                                                                                                                                                                 |                 |    |    |    |    |    |    |    |    |    |    |    |    |     |            |      |        |        |         |      |      |              |   |   |   |
|                             | 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. |                 |    |    |    |    |    |    |    |    |    |    |    |    |     |            |      |        |        |         |      |      |              |   |   |   |
|                             | 4. Frequency Stability : Normal Voltage = 3.30V ; Low Voltage =3.14V. ; High Voltage =4.40V                                                                                                                                                  |                 |    |    |    |    |    |    |    |    |    |    |    |    |     |            |      |        |        |         |      |      |              |   |   |   |

## 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 |
| 4.   | Antenna          | N/A        | N/A       | N/A    | N/A        | N/A               |
| 5.   | Adapter          | N/A        | N/A       | N/A    | N/A        | N/A               |
| 6.   | Test Jig         | N/A        | N/A       | N/A    | N/A        | N/A               |

## 2.4 Measurement Results Explanation Example

### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss.

*Offset = RF cable loss*

Following shows an offset computation example with cable loss 8.60 dB

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} \\ &= 8.60(\text{dB}) \end{aligned}$$

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

| 5G NR n7 Channel and Frequency List for SCS 15K &30K |                        |        |        |         |
|------------------------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                                             | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 50                                                   | Channel                | 505000 | 507000 | 509000  |
|                                                      | Frequency              | 2525   | 2535   | 2545    |
| 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  |

Note: SCS 30KHz does not support 5MHz Bandwidth.



| 5G NR n38 Channel and Frequency List for SCS 15K &30K |                        |        |        |         |
|-------------------------------------------------------|------------------------|--------|--------|---------|
| 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    |
| 25                                                    | Channel                | 516500 | 519000 | 521500  |
|                                                       | Frequency              | 2582.5 | 2595   | 2607.5  |
| 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    |
| 5                                                     | Channel                | 514500 | 519000 | 523500  |
|                                                       | Frequency              | 2572.5 | 2595   | 2617.5  |

Note: SCS 30KHz does not support 5MHz Bandwidth.



| 5G NR n41 Channel and Frequency List for SCS 15K &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 |
| 15                                                    | Channel                | 500700  | 518598  | 536496  |
|                                                       | Frequency              | 2503.5  | 2592.99 | 2682.48 |
| 10                                                    | Channel                | 500202  | 518598  | 537000  |
|                                                       | Frequency              | 2501.01 | 2592.99 | 2685    |

Note: SCS 15KHz does not support 60M~100MHz Bandwidth.

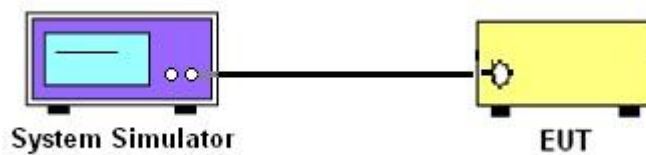
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

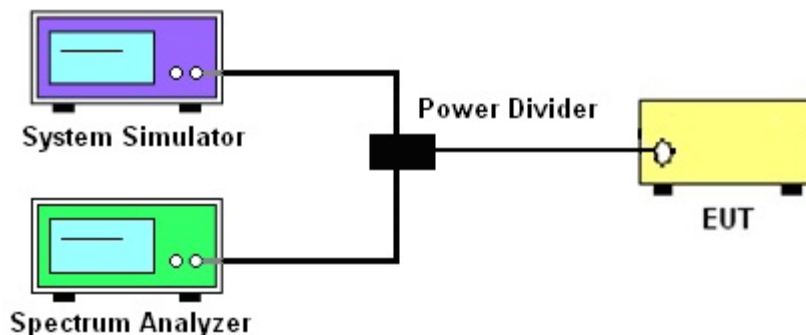
See list of measuring instruments of this test report.

#### 3.2 Test Setup

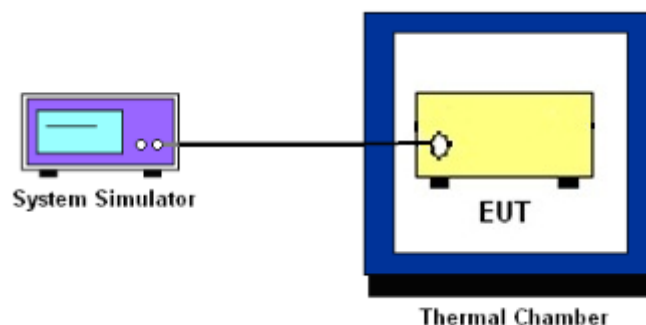
##### 3.2.1 Conducted Output Power



##### 3.2.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



##### 3.2.3 Frequency Stability



### 3.3 Test Result of Conducted Test

Please refer to Appendix A.

### 3.4 Conducted Output Power and EIRP

#### 3.4.1 Description of the Conducted Output Power Measurement and 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 EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n7, n38, n41.

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.



## 3.5 Peak-to-Average Ratio

### 3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

### 3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

## 3.6 Occupied Bandwidth

### 3.6.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

### 3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.  
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

## 3.7 Conducted Band Edge

### 3.7.1 Description of Conducted Band Edge Measurement

27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

### 3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW  $\geq 1\%/2\%$  EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used (generally limited to no less than 1% of the OBW) and the measured power was integrated over the full required measurement bandwidth.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.
9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

## 3.8 Conducted Spurious Emission

### 3.8.1 Description of Conducted Spurious Emission Measurement

For 5G NR n7/n38/n41:

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

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10<sup>th</sup> harmonic.

### 3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.  
The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

10. For 5G NR n7/n38/n41

The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)  
= P(W)- [55+ 10log(P)] (dB)  
= [30+ 10log(P)] (dBm) - [55+ 10log(P)] (dB)  
= -25dBm.

### 3.9 Frequency Stability

#### 3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block.

#### 3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

#### 3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

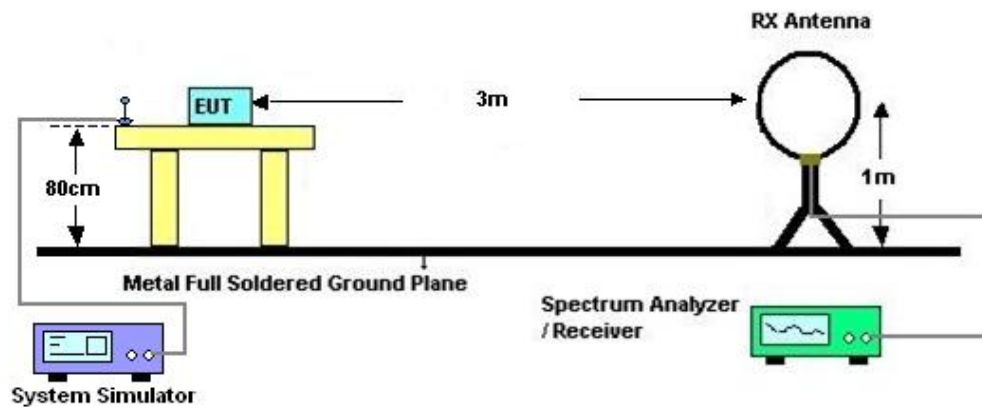
## 4 Radiated Test Items

### 4.1 Measuring Instruments

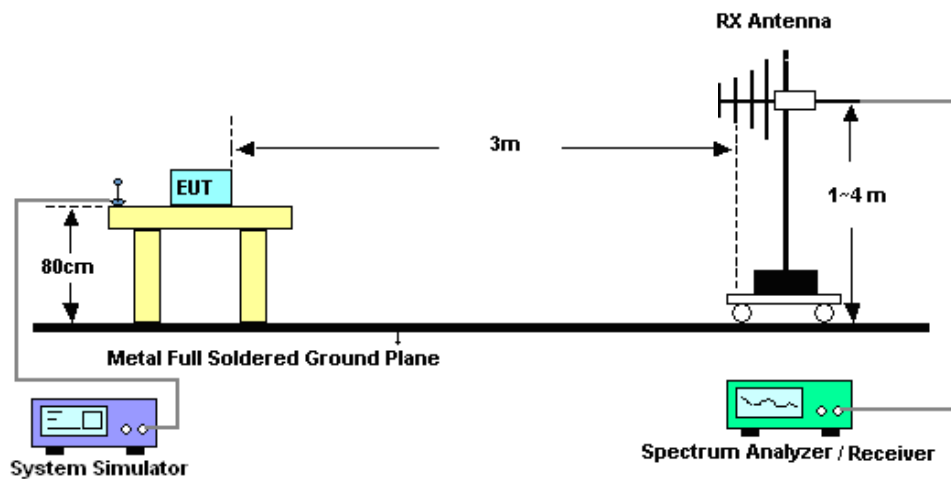
See list of measuring instruments of this test report.

### 4.2 Test Setup

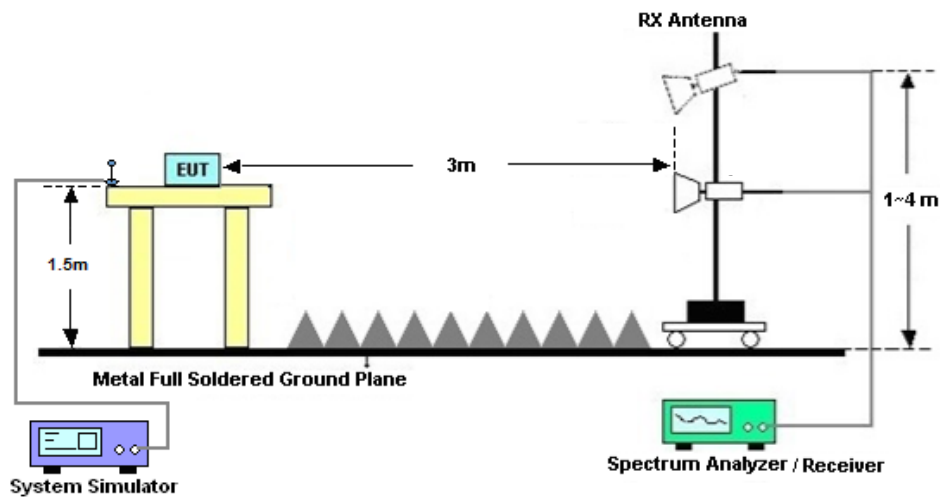
#### 4.2.1 For radiated test below 30MHz



#### 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

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.
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. 10, 2023    | Mar. 30, 2024~<br>May 01, 2024 | Apr. 09, 2024 | Conducted (TH01-SZ)   |
| Spectrum Analyzer         | R&S                          | FSV40             | 101078             | 10Hz~40GHz      | Apr. 09, 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    | Mar. 30, 2024~<br>May 01, 2024 | Dec. 24, 2024 | Conducted (TH01-SZ)   |
| Thermal Chamber           | Ten Billion<br>Hongzhangroup | LP-150U           | H2014081803        | -40~+150°C      | Jul. 05, 2023    | Mar. 30, 2024~<br>May 01, 2024 | Jul. 04, 2024 | Conducted (TH01-SZ)   |
| EMI Test Receiver&SA      | KEYSIGHT                     | N9038A            | MY54450083         | 20Hz~8.4GHz     | Apr. 09, 2024    | Apr. 11, 2024~<br>May 20, 2024 | Apr. 08, 2025 | Radiation (03CH03-SZ) |
| EXA Spectrum Analyzer     | KEYSIGHT                     | N9010A            | MY55150246         | 10Hz~44GHz;     | Apr. 09, 2024    | Apr. 11, 2024~<br>May 20, 2024 | Apr. 08, 2025 | Radiation (03CH03-SZ) |
| Loop Antenna              | R&S                          | HFH2-Z2           | 100354             | 9kHz~30MHz      | Jun. 28, 2022    | Apr. 11, 2024~<br>May 20, 2024 | Jun. 27, 2024 | Radiation (03CH03-SZ) |
| Bilog Antenna             | TeseQ                        | CBL6112D          | 35408              | 30MHz~2GHz      | Aug. 20, 2023    | Apr. 11, 2024~<br>May 20, 2024 | Aug. 19, 2025 | Radiation (03CH03-SZ) |
| Double Ridge Horn Antenna | SCHWARZBECK                  | BBHA9120D         | 9120D-1355         | 1GHz~18GHz      | Apr. 09, 2024    | Apr. 11, 2024~<br>May 20, 2024 | Apr. 08, 2025 | Radiation (03CH03-SZ) |
| SHF-EHF Horn              | com-power                    | AH-840            | 101071             | 18GHz~40GHz     | Apr. 09, 2024    | Apr. 11, 2024~<br>May 20, 2024 | Apr. 08, 2025 | Radiation (03CH03-SZ) |
| Amplifier                 | Burgeon                      | BPA-530           | 102211             | 0.01Hz ~3000MHz | Oct. 18, 2023    | Apr. 11, 2024~<br>May 20, 2024 | Oct. 17, 2024 | Radiation (03CH03-SZ) |
| HF Amplifier              | MITEQ                        | TTA1840-35<br>-HG | 1871923            | 18GHz~40GHz     | Jul. 07, 2023    | Apr. 11, 2024~<br>May 20, 2024 | Jul. 06, 2024 | Radiation (03CH03-SZ) |
| Amplifier                 | Agilent<br>Technologies      | 83017A            | MY39501302         | 500MHz~26.5GHz  | Dec. 27, 2023    | Apr. 11, 2024~<br>May 20, 2024 | Dec. 26, 2024 | Radiation (03CH03-SZ) |
| AC Power Source           | Chroma                       | 61601             | 616010002729       | N/A             | Oct. 18, 2023    | Apr. 11, 2024~<br>May 20, 2024 | Oct. 17, 2024 | Radiation (03CH03-SZ) |
| Turn Table                | EM                           | EM1000            | N/A                | 0~360 degree    | NCR              | Apr. 11, 2024~<br>May 20, 2024 | NCR           | Radiation (03CH03-SZ) |
| Antenna Mast              | EM                           | EM1000            | N/A                | 1 m~4 m         | NCR              | Apr. 11, 2024~<br>May 20, 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 Spurious Emission & Bandedge | $\pm 1.34$ dB   |
| Occupied Channel Bandwidth             | $\pm 0.012$ MHz |
| Conducted Power                        | $\pm 1.34$ dB   |
| Peak to Average Ratio                  | $\pm 1.34$ dB   |
| Frequency Stability                    | $\pm 1.3$ Hz    |

### 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 (1 GHz ~ 18 GHz)

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| 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 | Temperature :       | 24~26°C |
|                 |      | Relative Humidity : | 50~53%  |

# FR1 N7 – SCS 15k

## Transmitter Conducted Output Power And EIRP, ( $G_T - L_C$ )=3dBi

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation        | RB  | Conducted Power(dBm) | EIRP (dBm) | EIRP (W) |
|---------|-----------|-----------------|--------|------------|-------------------|-----|----------------------|------------|----------|
| 7       | 15        | 5               | 500500 | 2502.5     | DFT-s-OFDM QPSK   | 1@1 | 22.88                | 25.88      | 0.3873   |
| 7       | 15        | 5               | 500500 | 2502.5     | DFT-s-OFDM 16 QAM | 1@1 | 21.77                | 24.77      | 0.2999   |
| 7       | 15        | 5               | 507000 | 2535       | DFT-s-OFDM QPSK   | 1@1 | 22.62                | 25.62      | 0.3648   |
| 7       | 15        | 5               | 507000 | 2535       | DFT-s-OFDM 16 QAM | 1@1 | 21.64                | 24.64      | 0.2911   |
| 7       | 15        | 5               | 513500 | 2567.5     | DFT-s-OFDM QPSK   | 1@1 | 22.91                | 25.91      | 0.3899   |
| 7       | 15        | 5               | 513500 | 2567.5     | DFT-s-OFDM 16 QAM | 1@1 | 21.86                | 24.86      | 0.3062   |
| 7       | 15        | 10              | 501000 | 2505       | DFT-s-OFDM QPSK   | 1@1 | 22.77                | 25.77      | 0.3776   |
| 7       | 15        | 10              | 501000 | 2505       | DFT-s-OFDM 16 QAM | 1@1 | 21.64                | 24.64      | 0.2911   |
| 7       | 15        | 10              | 507000 | 2535       | DFT-s-OFDM QPSK   | 1@1 | 22.45                | 25.45      | 0.3508   |
| 7       | 15        | 10              | 507000 | 2535       | DFT-s-OFDM 16 QAM | 1@1 | 21.47                | 24.47      | 0.2799   |
| 7       | 15        | 10              | 513000 | 2565       | DFT-s-OFDM QPSK   | 1@1 | 22.63                | 25.63      | 0.3656   |
| 7       | 15        | 10              | 513000 | 2565       | DFT-s-OFDM 16 QAM | 1@1 | 21.68                | 24.68      | 0.2938   |
| 7       | 15        | 15              | 501500 | 2507.5     | DFT-s-OFDM QPSK   | 1@1 | 22.85                | 25.85      | 0.3846   |
| 7       | 15        | 15              | 501500 | 2507.5     | DFT-s-OFDM 16 QAM | 1@1 | 21.83                | 24.83      | 0.3041   |
| 7       | 15        | 15              | 507000 | 2535       | DFT-s-OFDM QPSK   | 1@1 | 22.66                | 25.66      | 0.3681   |
| 7       | 15        | 15              | 507000 | 2535       | DFT-s-OFDM 16 QAM | 1@1 | 21.68                | 24.68      | 0.2938   |
| 7       | 15        | 15              | 512500 | 2562.5     | DFT-s-OFDM QPSK   | 1@1 | 22.75                | 25.75      | 0.3758   |
| 7       | 15        | 15              | 512500 | 2562.5     | DFT-s-OFDM 16 QAM | 1@1 | 21.66                | 24.66      | 0.2924   |
| 7       | 15        | 20              | 502000 | 2510       | DFT-s-OFDM QPSK   | 1@1 | 22.86                | 25.86      | 0.3855   |
| 7       | 15        | 20              | 502000 | 2510       | DFT-s-OFDM 16 QAM | 1@1 | 21.77                | 24.77      | 0.2999   |
| 7       | 15        | 20              | 507000 | 2535       | DFT-s-OFDM QPSK   | 1@1 | 22.62                | 25.62      | 0.3648   |
| 7       | 15        | 20              | 507000 | 2535       | DFT-s-OFDM 16 QAM | 1@1 | 21.66                | 24.66      | 0.2924   |
| 7       | 15        | 20              | 512000 | 2560       | DFT-s-OFDM QPSK   | 1@1 | 22.66                | 25.66      | 0.3681   |
| 7       | 15        | 20              | 512000 | 2560       | DFT-s-OFDM 16 QAM | 1@1 | 21.64                | 24.64      | 0.2911   |
| 7       | 15        | 25              | 502500 | 2512.5     | DFT-s-OFDM QPSK   | 1@1 | 22.69                | 25.69      | 0.3707   |
| 7       | 15        | 25              | 502500 | 2512.5     | DFT-s-OFDM 16 QAM | 1@1 | 21.68                | 24.68      | 0.2938   |
| 7       | 15        | 25              | 507000 | 2535       | DFT-s-OFDM QPSK   | 1@1 | 22.49                | 25.49      | 0.3540   |
| 7       | 15        | 25              | 507000 | 2535       | DFT-s-OFDM 16 QAM | 1@1 | 21.46                | 24.46      | 0.2793   |
| 7       | 15        | 25              | 511500 | 2557.5     | DFT-s-OFDM QPSK   | 1@1 | 22.45                | 25.45      | 0.3508   |
| 7       | 15        | 25              | 511500 | 2557.5     | DFT-s-OFDM 16 QAM | 1@1 | 21.35                | 24.35      | 0.2723   |
| 7       | 15        | 30              | 503000 | 2515       | DFT-s-OFDM QPSK   | 1@1 | 22.61                | 25.61      | 0.3639   |
| 7       | 15        | 30              | 503000 | 2515       | DFT-s-OFDM 16 QAM | 1@1 | 21.58                | 24.58      | 0.2871   |
| 7       | 15        | 30              | 507000 | 2535       | DFT-s-OFDM QPSK   | 1@1 | 22.44                | 25.44      | 0.3499   |
| 7       | 15        | 30              | 507000 | 2535       | DFT-s-OFDM 16 QAM | 1@1 | 21.47                | 24.47      | 0.2799   |
| 7       | 15        | 30              | 511000 | 2555       | DFT-s-OFDM QPSK   | 1@1 | 22.36                | 25.36      | 0.3436   |
| 7       | 15        | 30              | 511000 | 2555       | DFT-s-OFDM 16 QAM | 1@1 | 21.37                | 24.37      | 0.2735   |
| 7       | 15        | 40              | 504000 | 2520       | DFT-s-OFDM QPSK   | 1@1 | 22.4                 | 25.4       | 0.3467   |
| 7       | 15        | 40              | 504000 | 2520       | DFT-s-OFDM 16 QAM | 1@1 | 21.33                | 24.33      | 0.2710   |

|   |    |    |        |      |                      |        |       |       |        |
|---|----|----|--------|------|----------------------|--------|-------|-------|--------|
| 7 | 15 | 40 | 507000 | 2535 | DFT-s-OFDM QPSK      | 1@1    | 22.28 | 25.28 | 0.3373 |
| 7 | 15 | 40 | 507000 | 2535 | DFT-s-OFDM 16 QAM    | 1@1    | 21.21 | 24.21 | 0.2636 |
| 7 | 15 | 40 | 510000 | 2550 | DFT-s-OFDM QPSK      | 1@1    | 22.08 | 25.08 | 0.3221 |
| 7 | 15 | 40 | 510000 | 2550 | DFT-s-OFDM 16 QAM    | 1@1    | 21.06 | 24.06 | 0.2547 |
| 7 | 15 | 50 | 505000 | 2525 | DFT-s-OFDM PI/2 BPSK | 135@67 | 22.82 | 25.82 | 0.3819 |
| 7 | 15 | 50 | 505000 | 2525 | DFT-s-OFDM PI/2 BPSK | 1@1    | 22.93 | 25.93 | 0.3917 |
| 7 | 15 | 50 | 505000 | 2525 | DFT-s-OFDM PI/2 BPSK | 1@268  | 22.69 | 25.69 | 0.3707 |
| 7 | 15 | 50 | 505000 | 2525 | DFT-s-OFDM QPSK      | 135@67 | 22.86 | 25.86 | 0.3855 |
| 7 | 15 | 50 | 505000 | 2525 | DFT-s-OFDM QPSK      | 1@1    | 22.84 | 25.84 | 0.3837 |
| 7 | 15 | 50 | 505000 | 2525 | DFT-s-OFDM QPSK      | 1@268  | 22.58 | 25.58 | 0.3614 |
| 7 | 15 | 50 | 505000 | 2525 | DFT-s-OFDM 16 QAM    | 135@67 | 21.89 | 24.89 | 0.3083 |
| 7 | 15 | 50 | 505000 | 2525 | DFT-s-OFDM 16 QAM    | 1@1    | 21.8  | 24.8  | 0.3020 |
| 7 | 15 | 50 | 505000 | 2525 | DFT-s-OFDM 16 QAM    | 1@268  | 21.54 | 24.54 | 0.2844 |
| 7 | 15 | 50 | 505000 | 2525 | DFT-s-OFDM 64 QAM    | 135@67 | 20.35 | 23.35 | 0.2163 |
| 7 | 15 | 50 | 505000 | 2525 | DFT-s-OFDM 64 QAM    | 1@1    | 20.22 | 23.22 | 0.2099 |
| 7 | 15 | 50 | 505000 | 2525 | DFT-s-OFDM 64 QAM    | 1@268  | 19.96 | 22.96 | 0.1977 |
| 7 | 15 | 50 | 505000 | 2525 | DFT-s-OFDM 256 QAM   | 135@67 | 18.32 | 21.32 | 0.1355 |
| 7 | 15 | 50 | 505000 | 2525 | DFT-s-OFDM 256 QAM   | 1@1    | 18.27 | 21.27 | 0.1340 |
| 7 | 15 | 50 | 505000 | 2525 | DFT-s-OFDM 256 QAM   | 1@268  | 17.99 | 20.99 | 0.1256 |
| 7 | 15 | 50 | 505000 | 2525 | CP-OFDM QPSK         | 135@67 | 21.35 | 24.35 | 0.2723 |
| 7 | 15 | 50 | 505000 | 2525 | CP-OFDM QPSK         | 1@1    | 21.36 | 24.36 | 0.2729 |
| 7 | 15 | 50 | 505000 | 2525 | CP-OFDM QPSK         | 1@268  | 21.14 | 24.14 | 0.2594 |
| 7 | 15 | 50 | 507000 | 2535 | DFT-s-OFDM PI/2 BPSK | 135@67 | 22.79 | 25.79 | 0.3793 |
| 7 | 15 | 50 | 507000 | 2535 | DFT-s-OFDM PI/2 BPSK | 1@1    | 22.84 | 25.84 | 0.3837 |
| 7 | 15 | 50 | 507000 | 2535 | DFT-s-OFDM PI/2 BPSK | 1@268  | 22.84 | 25.84 | 0.3837 |
| 7 | 15 | 50 | 507000 | 2535 | DFT-s-OFDM QPSK      | 135@67 | 22.84 | 25.84 | 0.3837 |
| 7 | 15 | 50 | 507000 | 2535 | DFT-s-OFDM QPSK      | 1@1    | 22.79 | 25.79 | 0.3793 |
| 7 | 15 | 50 | 507000 | 2535 | DFT-s-OFDM QPSK      | 1@268  | 22.78 | 25.78 | 0.3784 |
| 7 | 15 | 50 | 507000 | 2535 | DFT-s-OFDM 16 QAM    | 135@67 | 21.78 | 24.78 | 0.3006 |
| 7 | 15 | 50 | 507000 | 2535 | DFT-s-OFDM 16 QAM    | 1@1    | 21.71 | 24.71 | 0.2958 |
| 7 | 15 | 50 | 507000 | 2535 | DFT-s-OFDM 16 QAM    | 1@268  | 21.72 | 24.72 | 0.2965 |
| 7 | 15 | 50 | 507000 | 2535 | DFT-s-OFDM 64 QAM    | 135@67 | 20.25 | 23.25 | 0.2113 |
| 7 | 15 | 50 | 507000 | 2535 | DFT-s-OFDM 64 QAM    | 1@1    | 20.08 | 23.08 | 0.2032 |
| 7 | 15 | 50 | 507000 | 2535 | DFT-s-OFDM 64 QAM    | 1@268  | 20.12 | 23.12 | 0.2051 |
| 7 | 15 | 50 | 507000 | 2535 | DFT-s-OFDM 256 QAM   | 135@67 | 18.23 | 21.23 | 0.1327 |
| 7 | 15 | 50 | 507000 | 2535 | DFT-s-OFDM 256 QAM   | 1@1    | 18.16 | 21.16 | 0.1306 |
| 7 | 15 | 50 | 507000 | 2535 | DFT-s-OFDM 256 QAM   | 1@268  | 18.19 | 21.19 | 0.1315 |
| 7 | 15 | 50 | 507000 | 2535 | CP-OFDM QPSK         | 135@67 | 21.29 | 24.29 | 0.2685 |
| 7 | 15 | 50 | 507000 | 2535 | CP-OFDM QPSK         | 1@1    | 21.25 | 24.25 | 0.2661 |
| 7 | 15 | 50 | 507000 | 2535 | CP-OFDM QPSK         | 1@268  | 21.36 | 24.36 | 0.2729 |
| 7 | 15 | 50 | 509000 | 2545 | DFT-s-OFDM PI/2 BPSK | 135@67 | 22.76 | 25.76 | 0.3767 |
| 7 | 15 | 50 | 509000 | 2545 | DFT-s-OFDM PI/2 BPSK | 1@1    | 22.81 | 25.81 | 0.3811 |
| 7 | 15 | 50 | 509000 | 2545 | DFT-s-OFDM PI/2 BPSK | 1@268  | 23.01 | 26.01 | 0.3990 |
| 7 | 15 | 50 | 509000 | 2545 | DFT-s-OFDM QPSK      | 135@67 | 22.87 | 25.87 | 0.3864 |
| 7 | 15 | 50 | 509000 | 2545 | DFT-s-OFDM QPSK      | 1@1    | 22.7  | 25.7  | 0.3715 |
| 7 | 15 | 50 | 509000 | 2545 | DFT-s-OFDM QPSK      | 1@268  | 22.9  | 25.9  | 0.3890 |

|   |    |    |        |      |                    |        |       |       |        |
|---|----|----|--------|------|--------------------|--------|-------|-------|--------|
| 7 | 15 | 50 | 509000 | 2545 | DFT-s-OFDM 16 QAM  | 135@67 | 21.83 | 24.83 | 0.3041 |
| 7 | 15 | 50 | 509000 | 2545 | DFT-s-OFDM 16 QAM  | 1@1    | 21.66 | 24.66 | 0.2924 |
| 7 | 15 | 50 | 509000 | 2545 | DFT-s-OFDM 16 QAM  | 1@268  | 21.85 | 24.85 | 0.3055 |
| 7 | 15 | 50 | 509000 | 2545 | DFT-s-OFDM 64 QAM  | 135@67 | 20.29 | 23.29 | 0.2133 |
| 7 | 15 | 50 | 509000 | 2545 | DFT-s-OFDM 64 QAM  | 1@1    | 20.07 | 23.07 | 0.2028 |
| 7 | 15 | 50 | 509000 | 2545 | DFT-s-OFDM 64 QAM  | 1@268  | 20.28 | 23.28 | 0.2128 |
| 7 | 15 | 50 | 509000 | 2545 | DFT-s-OFDM 256 QAM | 135@67 | 18.31 | 21.31 | 0.1352 |
| 7 | 15 | 50 | 509000 | 2545 | DFT-s-OFDM 256 QAM | 1@1    | 18.13 | 21.13 | 0.1297 |
| 7 | 15 | 50 | 509000 | 2545 | DFT-s-OFDM 256 QAM | 1@268  | 18.36 | 21.36 | 0.1368 |
| 7 | 15 | 50 | 509000 | 2545 | CP-OFDM QPSK       | 135@67 | 21.28 | 24.28 | 0.2679 |
| 7 | 15 | 50 | 509000 | 2545 | CP-OFDM QPSK       | 1@1    | 21.23 | 24.23 | 0.2649 |
| 7 | 15 | 50 | 509000 | 2545 | CP-OFDM QPSK       | 1@268  | 21.45 | 24.45 | 0.2786 |

# FR1 N7– SCS 30k

## Transmitter Conducted Output Power And EIRP, ( $G_T - L_C$ )=3dBi

| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation           | RB    | Conducted Power(dBm) | EIRP (dBm) | EIRP(W) |
|---------|-----|-----------|--------|-----------|----------------------|-------|----------------------|------------|---------|
| 7       | 30  | 10        | 501000 | 2505      | DFT-s-OFDM QPSK      | 1@1   | 22.7                 | 25.7       | 0.3715  |
| 7       | 30  | 10        | 501000 | 2505      | DFT-s-OFDM 16 QAM    | 1@1   | 21.74                | 24.74      | 0.2979  |
| 7       | 30  | 10        | 507000 | 2535      | DFT-s-OFDM QPSK      | 1@1   | 22.44                | 25.44      | 0.3499  |
| 7       | 30  | 10        | 507000 | 2535      | DFT-s-OFDM 16 QAM    | 1@1   | 21.61                | 24.61      | 0.2891  |
| 7       | 30  | 10        | 513000 | 2565      | DFT-s-OFDM QPSK      | 1@1   | 22.6                 | 25.6       | 0.3631  |
| 7       | 30  | 10        | 513000 | 2565      | DFT-s-OFDM 16 QAM    | 1@1   | 21.85                | 24.85      | 0.3055  |
| 7       | 30  | 15        | 501500 | 2507.5    | DFT-s-OFDM QPSK      | 1@1   | 22.72                | 25.72      | 0.3733  |
| 7       | 30  | 15        | 501500 | 2507.5    | DFT-s-OFDM 16 QAM    | 1@1   | 21.79                | 24.79      | 0.3013  |
| 7       | 30  | 15        | 507000 | 2535      | DFT-s-OFDM QPSK      | 1@1   | 22.47                | 25.47      | 0.3524  |
| 7       | 30  | 15        | 507000 | 2535      | DFT-s-OFDM 16 QAM    | 1@1   | 21.71                | 24.71      | 0.2958  |
| 7       | 30  | 15        | 512500 | 2562.5    | DFT-s-OFDM QPSK      | 1@1   | 22.49                | 25.49      | 0.3540  |
| 7       | 30  | 15        | 512500 | 2562.5    | DFT-s-OFDM 16 QAM    | 1@1   | 21.62                | 24.62      | 0.2897  |
| 7       | 30  | 20        | 502000 | 2510      | DFT-s-OFDM QPSK      | 1@1   | 22.62                | 25.62      | 0.3648  |
| 7       | 30  | 20        | 502000 | 2510      | DFT-s-OFDM 16 QAM    | 1@1   | 21.65                | 24.65      | 0.2917  |
| 7       | 30  | 20        | 507000 | 2535      | DFT-s-OFDM QPSK      | 1@1   | 22.42                | 25.42      | 0.3483  |
| 7       | 30  | 20        | 507000 | 2535      | DFT-s-OFDM 16 QAM    | 1@1   | 21.61                | 24.61      | 0.2891  |
| 7       | 30  | 20        | 512000 | 2560      | DFT-s-OFDM QPSK      | 1@1   | 22.37                | 25.37      | 0.3443  |
| 7       | 30  | 20        | 512000 | 2560      | DFT-s-OFDM 16 QAM    | 1@1   | 21.48                | 24.48      | 0.2805  |
| 7       | 30  | 25        | 526500 | 2512.5    | DFT-s-OFDM QPSK      | 1@1   | 22.46                | 25.46      | 0.3516  |
| 7       | 30  | 25        | 526500 | 2512.5    | DFT-s-OFDM 16 QAM    | 1@1   | 21.47                | 24.47      | 0.2799  |
| 7       | 30  | 25        | 531000 | 2535      | DFT-s-OFDM QPSK      | 1@1   | 22.3                 | 25.3       | 0.3388  |
| 7       | 30  | 25        | 531000 | 2535      | DFT-s-OFDM 16 QAM    | 1@1   | 21.42                | 24.42      | 0.2767  |
| 7       | 30  | 25        | 535500 | 2557.5    | DFT-s-OFDM QPSK      | 1@1   | 22.2                 | 25.2       | 0.3311  |
| 7       | 30  | 25        | 535500 | 2557.5    | DFT-s-OFDM 16 QAM    | 1@1   | 21.35                | 24.35      | 0.2723  |
| 7       | 30  | 30        | 527000 | 2515      | DFT-s-OFDM QPSK      | 1@1   | 22.46                | 25.46      | 0.3516  |
| 7       | 30  | 30        | 527000 | 2515      | DFT-s-OFDM 16 QAM    | 1@1   | 21.54                | 24.54      | 0.2844  |
| 7       | 30  | 30        | 531000 | 2535      | DFT-s-OFDM QPSK      | 1@1   | 22.25                | 25.25      | 0.3350  |
| 7       | 30  | 30        | 531000 | 2535      | DFT-s-OFDM 16 QAM    | 1@1   | 21.52                | 24.52      | 0.2831  |
| 7       | 30  | 30        | 535000 | 2555      | DFT-s-OFDM QPSK      | 1@1   | 22.19                | 25.19      | 0.3304  |
| 7       | 30  | 30        | 535000 | 2555      | DFT-s-OFDM 16 QAM    | 1@1   | 21.38                | 24.38      | 0.2742  |
| 7       | 30  | 40        | 528000 | 2520      | DFT-s-OFDM QPSK      | 1@1   | 22.24                | 25.24      | 0.3342  |
| 7       | 30  | 40        | 528000 | 2520      | DFT-s-OFDM 16 QAM    | 1@1   | 21.34                | 24.34      | 0.2716  |
| 7       | 30  | 40        | 531000 | 2535      | DFT-s-OFDM QPSK      | 1@1   | 22.07                | 25.07      | 0.3214  |
| 7       | 30  | 40        | 531000 | 2535      | DFT-s-OFDM 16 QAM    | 1@1   | 21.21                | 24.21      | 0.2636  |
| 7       | 30  | 40        | 534000 | 2550      | DFT-s-OFDM QPSK      | 1@1   | 21.93                | 24.93      | 0.3112  |
| 7       | 30  | 40        | 534000 | 2550      | DFT-s-OFDM 16 QAM    | 1@1   | 21.1                 | 24.1       | 0.2570  |
| 7       | 30  | 50        | 529000 | 2525      | DFT-s-OFDM PI/2 BPSK | 64@32 | 22.75                | 25.75      | 0.3758  |

|   |    |    |        |      |                      |       |       |       |        |
|---|----|----|--------|------|----------------------|-------|-------|-------|--------|
| 7 | 30 | 50 | 529000 | 2525 | DFT-s-OFDM PI/2 BPSK | 1@1   | 22.73 | 25.73 | 0.3741 |
| 7 | 30 | 50 | 529000 | 2525 | DFT-s-OFDM PI/2 BPSK | 1@131 | 22.47 | 25.47 | 0.3524 |
| 7 | 30 | 50 | 529000 | 2525 | DFT-s-OFDM QPSK      | 64@32 | 22.84 | 25.84 | 0.3837 |
| 7 | 30 | 50 | 529000 | 2525 | DFT-s-OFDM QPSK      | 1@1   | 22.68 | 25.68 | 0.3698 |
| 7 | 30 | 50 | 529000 | 2525 | DFT-s-OFDM QPSK      | 1@131 | 22.43 | 25.43 | 0.3491 |
| 7 | 30 | 50 | 529000 | 2525 | DFT-s-OFDM 16 QAM    | 64@32 | 21.8  | 24.8  | 0.3020 |
| 7 | 30 | 50 | 529000 | 2525 | DFT-s-OFDM 16 QAM    | 1@1   | 21.8  | 24.8  | 0.3020 |
| 7 | 30 | 50 | 529000 | 2525 | DFT-s-OFDM 16 QAM    | 1@131 | 21.57 | 24.57 | 0.2864 |
| 7 | 30 | 50 | 529000 | 2525 | DFT-s-OFDM 64 QAM    | 64@32 | 20.32 | 23.32 | 0.2148 |
| 7 | 30 | 50 | 529000 | 2525 | DFT-s-OFDM 64 QAM    | 1@1   | 20.05 | 23.05 | 0.2018 |
| 7 | 30 | 50 | 529000 | 2525 | DFT-s-OFDM 64 QAM    | 1@131 | 19.77 | 22.77 | 0.1892 |
| 7 | 30 | 50 | 529000 | 2525 | DFT-s-OFDM 256 QAM   | 64@32 | 18.2  | 21.2  | 0.1318 |
| 7 | 30 | 50 | 529000 | 2525 | DFT-s-OFDM 256 QAM   | 1@1   | 18.09 | 21.09 | 0.1285 |
| 7 | 30 | 50 | 529000 | 2525 | DFT-s-OFDM 256 QAM   | 1@131 | 17.8  | 20.8  | 0.1202 |
| 7 | 30 | 50 | 529000 | 2525 | CP-OFDM QPSK         | 67@33 | 21.18 | 24.18 | 0.2618 |
| 7 | 30 | 50 | 529000 | 2525 | CP-OFDM QPSK         | 1@1   | 21.45 | 24.45 | 0.2786 |
| 7 | 30 | 50 | 529000 | 2525 | CP-OFDM QPSK         | 1@131 | 21.28 | 24.28 | 0.2679 |
| 7 | 30 | 50 | 531000 | 2535 | DFT-s-OFDM PI/2 BPSK | 64@32 | 22.66 | 25.66 | 0.3681 |
| 7 | 30 | 50 | 531000 | 2535 | DFT-s-OFDM PI/2 BPSK | 1@1   | 22.66 | 25.66 | 0.3681 |
| 7 | 30 | 50 | 531000 | 2535 | DFT-s-OFDM PI/2 BPSK | 1@131 | 22.7  | 25.7  | 0.3715 |
| 7 | 30 | 50 | 531000 | 2535 | DFT-s-OFDM QPSK      | 64@32 | 22.76 | 25.76 | 0.3767 |
| 7 | 30 | 50 | 531000 | 2535 | DFT-s-OFDM QPSK      | 1@1   | 22.6  | 25.6  | 0.3631 |
| 7 | 30 | 50 | 531000 | 2535 | DFT-s-OFDM QPSK      | 1@131 | 22.59 | 25.59 | 0.3622 |
| 7 | 30 | 50 | 531000 | 2535 | DFT-s-OFDM 16 QAM    | 64@32 | 21.73 | 24.73 | 0.2972 |
| 7 | 30 | 50 | 531000 | 2535 | DFT-s-OFDM 16 QAM    | 1@1   | 21.73 | 24.73 | 0.2972 |
| 7 | 30 | 50 | 531000 | 2535 | DFT-s-OFDM 16 QAM    | 1@131 | 21.79 | 24.79 | 0.3013 |
| 7 | 30 | 50 | 531000 | 2535 | DFT-s-OFDM 64 QAM    | 64@32 | 20.19 | 23.19 | 0.2084 |
| 7 | 30 | 50 | 531000 | 2535 | DFT-s-OFDM 64 QAM    | 1@1   | 19.98 | 22.98 | 0.1986 |
| 7 | 30 | 50 | 531000 | 2535 | DFT-s-OFDM 64 QAM    | 1@131 | 19.97 | 22.97 | 0.1982 |
| 7 | 30 | 50 | 531000 | 2535 | DFT-s-OFDM 256 QAM   | 64@32 | 18.15 | 21.15 | 0.1303 |
| 7 | 30 | 50 | 531000 | 2535 | DFT-s-OFDM 256 QAM   | 1@1   | 17.97 | 20.97 | 0.1250 |
| 7 | 30 | 50 | 531000 | 2535 | DFT-s-OFDM 256 QAM   | 1@131 | 17.96 | 20.96 | 0.1247 |
| 7 | 30 | 50 | 531000 | 2535 | CP-OFDM QPSK         | 67@33 | 21.16 | 24.16 | 0.2606 |
| 7 | 30 | 50 | 531000 | 2535 | CP-OFDM QPSK         | 1@1   | 21.33 | 24.33 | 0.2710 |
| 7 | 30 | 50 | 531000 | 2535 | CP-OFDM QPSK         | 1@131 | 21.38 | 24.38 | 0.2742 |
| 7 | 30 | 50 | 533000 | 2545 | DFT-s-OFDM PI/2 BPSK | 64@32 | 22.73 | 25.73 | 0.3741 |
| 7 | 30 | 50 | 533000 | 2545 | DFT-s-OFDM PI/2 BPSK | 1@1   | 22.56 | 25.56 | 0.3597 |
| 7 | 30 | 50 | 533000 | 2545 | DFT-s-OFDM PI/2 BPSK | 1@131 | 22.82 | 25.82 | 0.3819 |
| 7 | 30 | 50 | 533000 | 2545 | DFT-s-OFDM QPSK      | 64@32 | 22.76 | 25.76 | 0.3767 |
| 7 | 30 | 50 | 533000 | 2545 | DFT-s-OFDM QPSK      | 1@1   | 22.48 | 25.48 | 0.3532 |
| 7 | 30 | 50 | 533000 | 2545 | DFT-s-OFDM QPSK      | 1@131 | 22.71 | 25.71 | 0.3724 |
| 7 | 30 | 50 | 533000 | 2545 | DFT-s-OFDM 16 QAM    | 64@32 | 21.76 | 24.76 | 0.2992 |
| 7 | 30 | 50 | 533000 | 2545 | DFT-s-OFDM 16 QAM    | 1@1   | 21.66 | 24.66 | 0.2924 |



|   |    |    |        |      |                    |       |       |       |        |
|---|----|----|--------|------|--------------------|-------|-------|-------|--------|
| 7 | 30 | 50 | 533000 | 2545 | DFT-s-OFDM 16 QAM  | 1@131 | 21.83 | 24.83 | 0.3041 |
| 7 | 30 | 50 | 533000 | 2545 | DFT-s-OFDM 64 QAM  | 64@32 | 20.25 | 23.25 | 0.2113 |
| 7 | 30 | 50 | 533000 | 2545 | DFT-s-OFDM 64 QAM  | 1@1   | 19.9  | 22.9  | 0.1950 |
| 7 | 30 | 50 | 533000 | 2545 | DFT-s-OFDM 64 QAM  | 1@131 | 20.16 | 23.16 | 0.2070 |
| 7 | 30 | 50 | 533000 | 2545 | DFT-s-OFDM 256 QAM | 64@32 | 18.16 | 21.16 | 0.1306 |
| 7 | 30 | 50 | 533000 | 2545 | DFT-s-OFDM 256 QAM | 1@1   | 17.84 | 20.84 | 0.1213 |
| 7 | 30 | 50 | 533000 | 2545 | DFT-s-OFDM 256 QAM | 1@131 | 18.09 | 21.09 | 0.1285 |
| 7 | 30 | 50 | 533000 | 2545 | CP-OFDM QPSK       | 67@33 | 21.13 | 24.13 | 0.2588 |
| 7 | 30 | 50 | 533000 | 2545 | CP-OFDM QPSK       | 1@1   | 21.31 | 24.31 | 0.2698 |
| 7 | 30 | 50 | 533000 | 2545 | CP-OFDM QPSK       | 1@131 | 21.38 | 24.38 | 0.2742 |

# FR1 N7– SCS 15k

## Frequency Stability

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation      | RB    | Deviation (ppm) | Verdict | Environment |
|---------|-----------|-----------------|--------|------------|-----------------|-------|-----------------|---------|-------------|
| 7       | 15        | 20              | 507000 | 2535.0     | DFT-s-OFDM QPSK | 100@0 | 0.0040          | PASS    | NV          |
| 7       | 15        | 20              | 507000 | 2535.0     | DFT-s-OFDM QPSK | 100@0 | 0.0031          | PASS    | LV          |
| 7       | 15        | 20              | 507000 | 2535.0     | DFT-s-OFDM QPSK | 100@0 | 0.0059          | PASS    | HV          |
| 7       | 15        | 20              | 507000 | 2535.0     | DFT-s-OFDM QPSK | 100@0 | 0.0039          | PASS    | -30°C       |
| 7       | 15        | 20              | 507000 | 2535.0     | DFT-s-OFDM QPSK | 100@0 | 0.0041          | PASS    | -20°C       |
| 7       | 15        | 20              | 507000 | 2535.0     | DFT-s-OFDM QPSK | 100@0 | 0.0022          | PASS    | -10°C       |
| 7       | 15        | 20              | 507000 | 2535.0     | DFT-s-OFDM QPSK | 100@0 | 0.0061          | PASS    | 0°C         |
| 7       | 15        | 20              | 507000 | 2535.0     | DFT-s-OFDM QPSK | 100@0 | 0.0050          | PASS    | 10°C        |
| 7       | 15        | 20              | 507000 | 2535.0     | DFT-s-OFDM QPSK | 100@0 | 0.0040          | PASS    | 20°C        |
| 7       | 15        | 20              | 507000 | 2535.0     | DFT-s-OFDM QPSK | 100@0 | 0.0041          | PASS    | 30°C        |
| 7       | 15        | 20              | 507000 | 2535.0     | DFT-s-OFDM QPSK | 100@0 | 0.0045          | PASS    | 40°C        |
| 7       | 15        | 20              | 507000 | 2535.0     | DFT-s-OFDM QPSK | 100@0 | 0.0056          | PASS    | 50°C        |

## Peak to Average Ratio

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation           | RB    | Result (dB) | Limit (dB) | Verdict |
|---------|-----------|-----------------|--------|------------|----------------------|-------|-------------|------------|---------|
| 7       | 15        | 20              | 507000 | 2535.0     | DFT-s-OFDM PI/2 BPSK | 100@0 | 4.01        | 13         | PASS    |
| 7       | 15        | 20              | 507000 | 2535.0     | DFT-s-OFDM QPSK      | 100@0 | 5.21        | 13         | PASS    |

N7(20M)\_DFT-s-OFDM\_PI\_2-  
BPSK\_Outer\_Full\_Mid\_CH



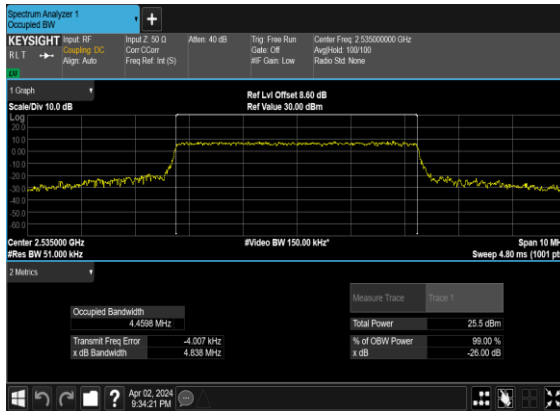
N7(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



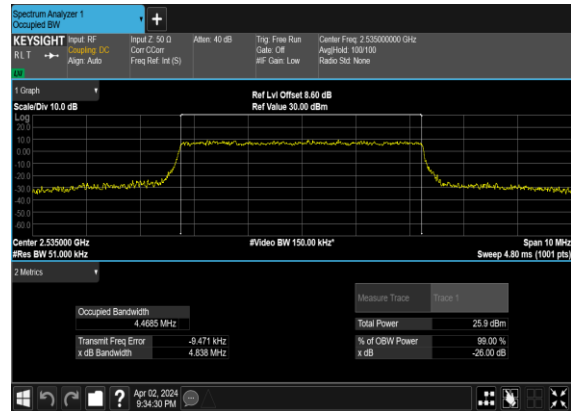
## Occupied Bandwidth

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation      | RB    | OBW (MHz) | 26dB BW (MHz) |
|---------|-----------|-----------------|--------|------------|-----------------|-------|-----------|---------------|
| 7       | 15        | 5               | 507000 | 2535.0     | CP-OFDM QPSK    | 25@0  | 4.4598    | 4.838         |
| 7       | 15        | 5               | 507000 | 2535.0     | CP-OFDM 16 QAM  | 25@0  | 4.4685    | 4.838         |
| 7       | 15        | 5               | 507000 | 2535.0     | CP-OFDM 64 QAM  | 25@0  | 4.4658    | 4.806         |
| 7       | 15        | 5               | 507000 | 2535.0     | CP-OFDM 256 QAM | 25@0  | 4.4762    | 4.816         |
| 7       | 15        | 10              | 507000 | 2535.0     | CP-OFDM QPSK    | 52@0  | 9.2913    | 9.851         |
| 7       | 15        | 10              | 507000 | 2535.0     | CP-OFDM 16 QAM  | 52@0  | 9.2934    | 9.797         |
| 7       | 15        | 10              | 507000 | 2535.0     | CP-OFDM 64 QAM  | 52@0  | 9.2898    | 9.781         |
| 7       | 15        | 10              | 507000 | 2535.0     | CP-OFDM 256 QAM | 52@0  | 9.2664    | 9.752         |
| 7       | 15        | 15              | 507000 | 2535.0     | CP-OFDM QPSK    | 79@0  | 14.117    | 14.71         |
| 7       | 15        | 15              | 507000 | 2535.0     | CP-OFDM 16 QAM  | 79@0  | 14.137    | 14.74         |
| 7       | 15        | 15              | 507000 | 2535.0     | CP-OFDM 64 QAM  | 79@0  | 14.121    | 14.82         |
| 7       | 15        | 15              | 507000 | 2535.0     | CP-OFDM 256 QAM | 79@0  | 14.107    | 14.77         |
| 7       | 15        | 20              | 507000 | 2535.0     | CP-OFDM QPSK    | 106@0 | 18.886    | 19.76         |
| 7       | 15        | 20              | 507000 | 2535.0     | CP-OFDM 16 QAM  | 106@0 | 18.906    | 19.79         |
| 7       | 15        | 20              | 507000 | 2535.0     | CP-OFDM 64 QAM  | 106@0 | 18.894    | 19.72         |
| 7       | 15        | 20              | 507000 | 2535.0     | CP-OFDM 256 QAM | 106@0 | 18.923    | 19.69         |
| 7       | 15        | 25              | 507000 | 2535.0     | CP-OFDM QPSK    | 133@0 | 23.796    | 24.77         |
| 7       | 15        | 25              | 507000 | 2535.0     | CP-OFDM 16 QAM  | 133@0 | 23.701    | 24.7          |
| 7       | 15        | 25              | 507000 | 2535.0     | CP-OFDM 64 QAM  | 133@0 | 23.756    | 24.7          |
| 7       | 15        | 25              | 507000 | 2535.0     | CP-OFDM 256 QAM | 133@0 | 23.712    | 24.69         |
| 7       | 15        | 30              | 507000 | 2535.0     | CP-OFDM QPSK    | 160@0 | 28.598    | 29.6          |
| 7       | 15        | 30              | 507000 | 2535.0     | CP-OFDM 16 QAM  | 160@0 | 28.563    | 29.62         |
| 7       | 15        | 30              | 507000 | 2535.0     | CP-OFDM 64 QAM  | 160@0 | 28.558    | 29.63         |
| 7       | 15        | 30              | 507000 | 2535.0     | CP-OFDM 256 QAM | 160@0 | 28.529    | 29.62         |
| 7       | 15        | 40              | 507000 | 2535.0     | CP-OFDM QPSK    | 216@0 | 38.54     | 40.08         |
| 7       | 15        | 40              | 507000 | 2535.0     | CP-OFDM 16 QAM  | 216@0 | 38.511    | 40.19         |
| 7       | 15        | 40              | 507000 | 2535.0     | CP-OFDM 64 QAM  | 216@0 | 38.548    | 39.99         |
| 7       | 15        | 40              | 507000 | 2535.0     | CP-OFDM 256 QAM | 216@0 | 38.48     | 39.98         |
| 7       | 15        | 50              | 507000 | 2535.0     | CP-OFDM QPSK    | 270@0 | 48.17     | 49.74         |
| 7       | 15        | 50              | 507000 | 2535.0     | CP-OFDM 16 QAM  | 270@0 | 48.187    | 49.97         |
| 7       | 15        | 50              | 507000 | 2535.0     | CP-OFDM 64 QAM  | 270@0 | 48.271    | 49.85         |
| 7       | 15        | 50              | 507000 | 2535.0     | CP-OFDM 256 QAM | 270@0 | 48.191    | 49.82         |

## N7(5M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



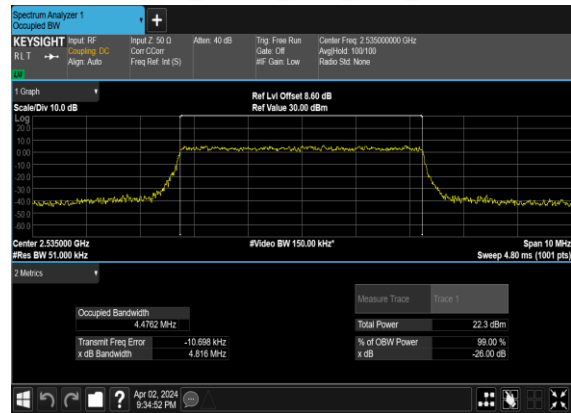
## N7(5M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



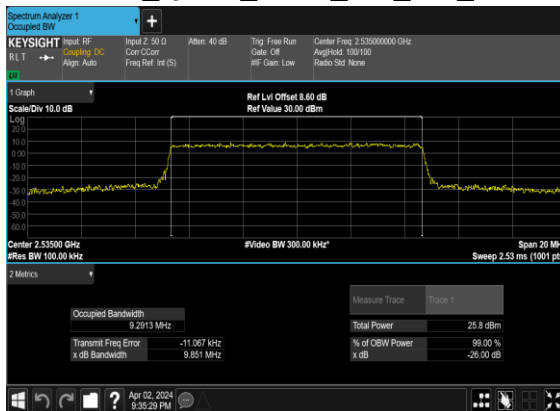
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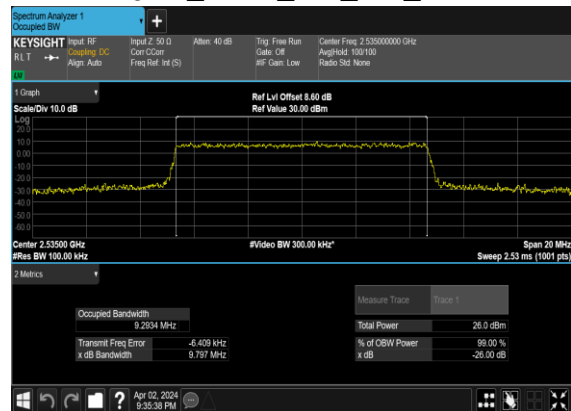
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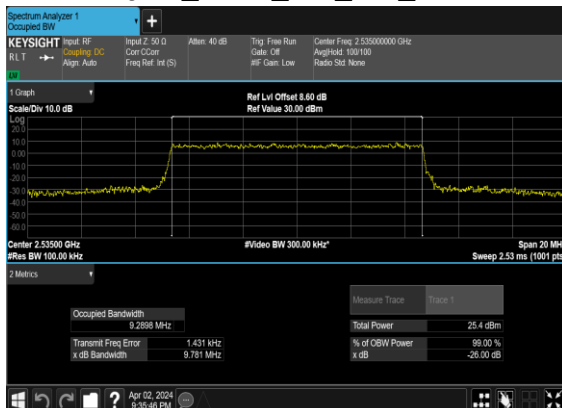
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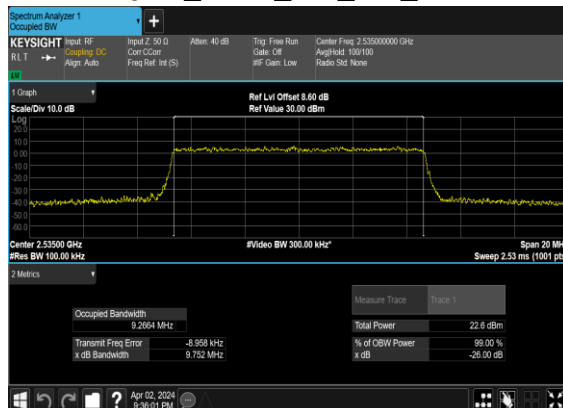
## N7(10M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



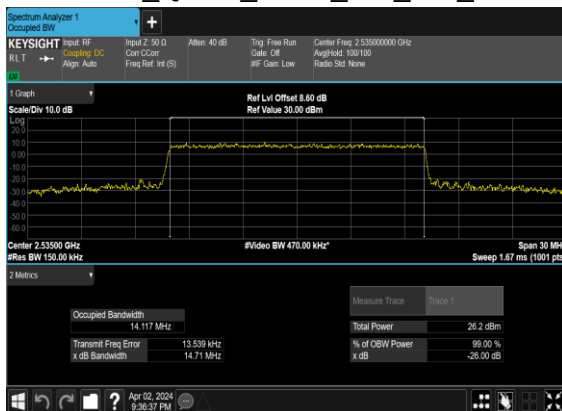
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QAM\_Outer\_Full\_Mid\_CH



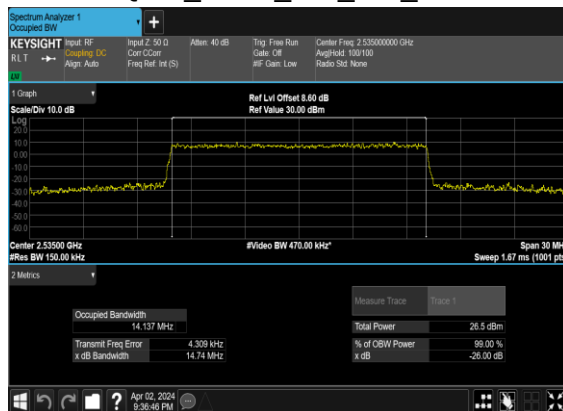
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QAM\_Outer\_Full\_Mid\_CH



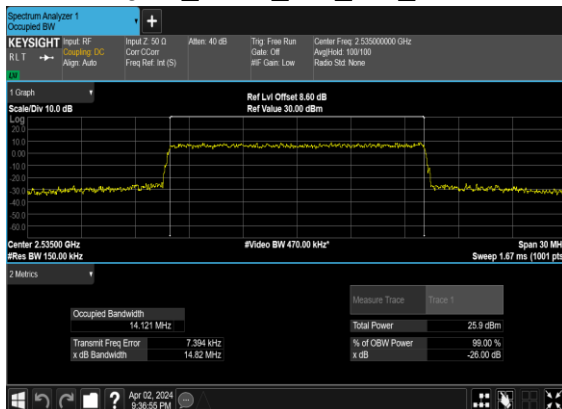
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OFDM\_QPSK\_Outer\_Full\_Mid\_CH



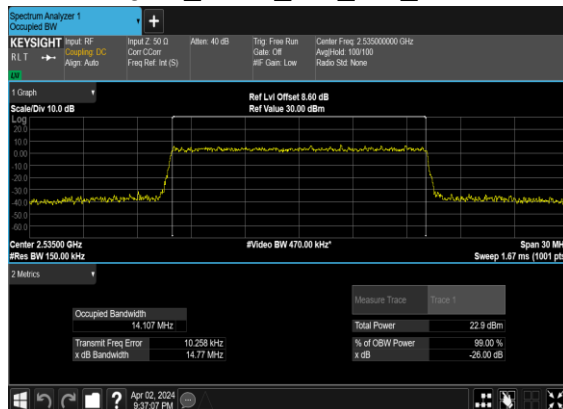
N7(15M)\_CP-OFDM\_16  
QAM\_Outer\_Full\_Mid\_CH



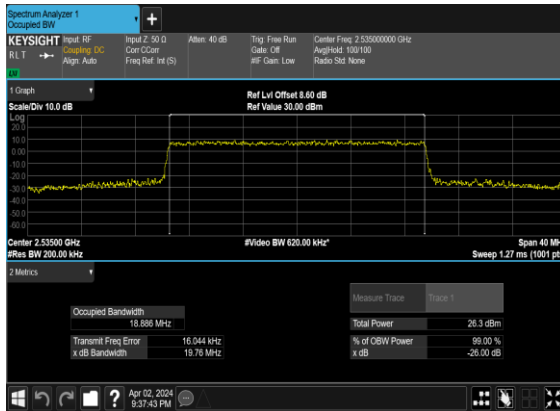
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QAM\_Outer\_Full\_Mid\_CH



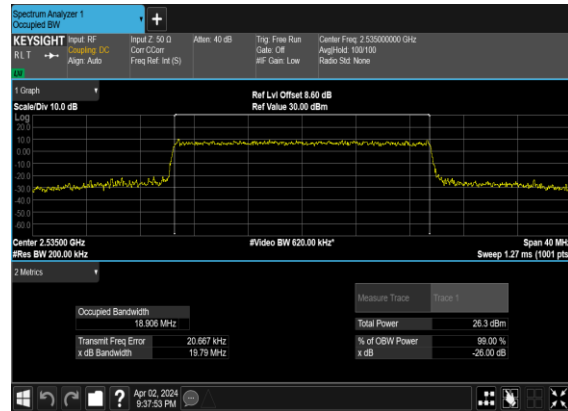
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QAM\_Outer\_Full\_Mid\_CH



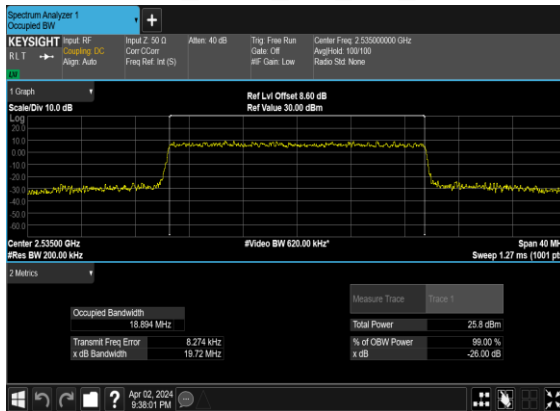
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OFDM\_QPSK\_Outer\_Full\_Mid\_CH



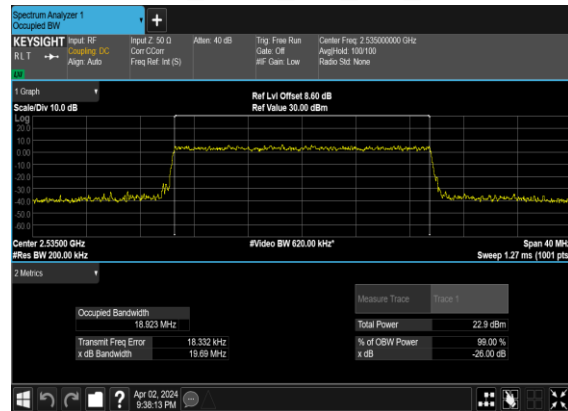
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QAM\_Outer\_Full\_Mid\_CH



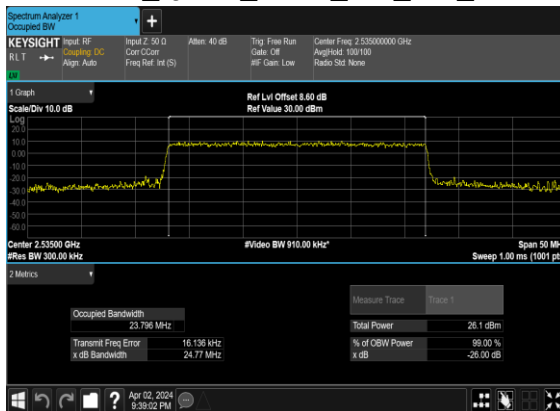
N7(20M)\_CP-OFDM\_64  
QAM\_Outer\_Full\_Mid\_CH



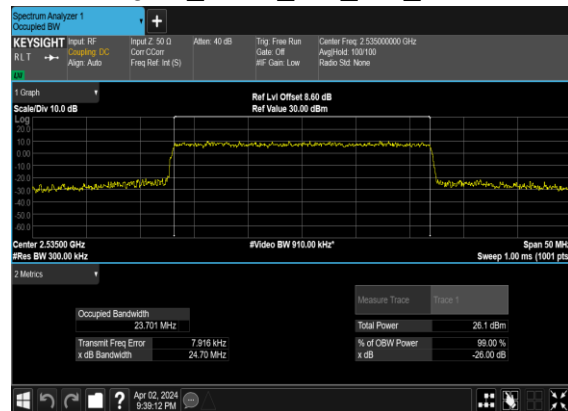
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QAM\_Outer\_Full\_Mid\_CH



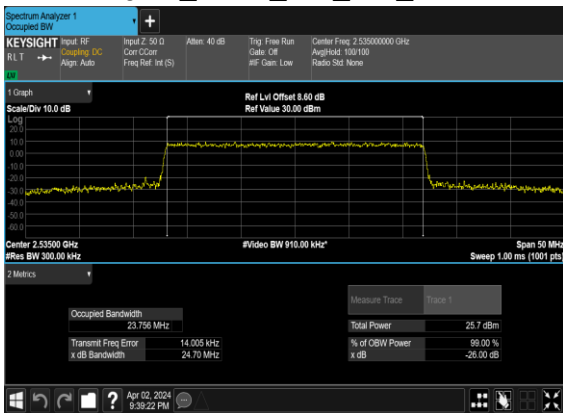
N7(25M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



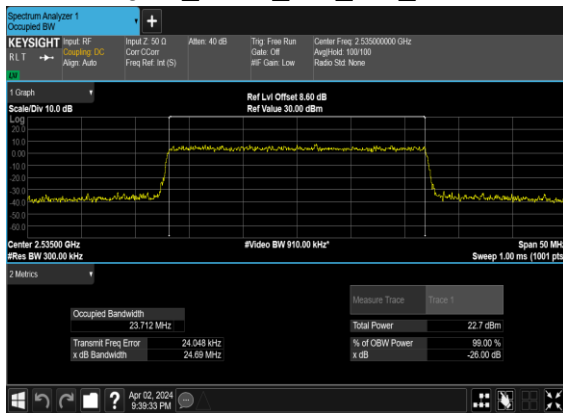
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QAM\_Outer\_Full\_Mid\_CH



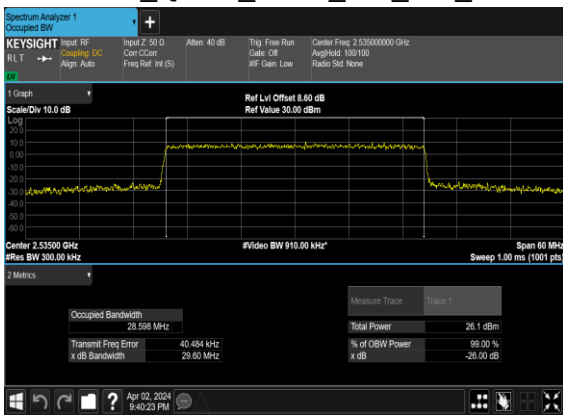
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QAM\_Outer\_Full\_Mid\_CH



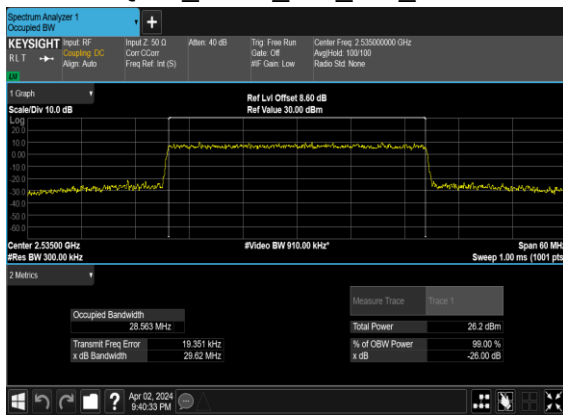
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QAM\_Outer\_Full\_Mid\_CH



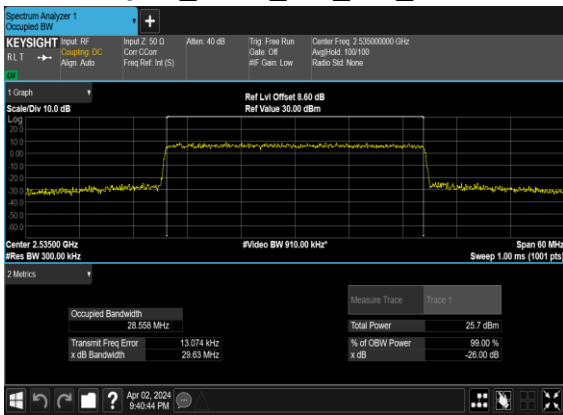
N7(30M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



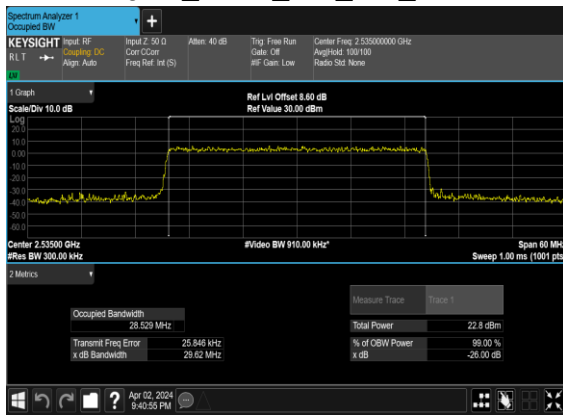
N7(30M)\_CP-OFDM\_16  
QAM\_Outer\_Full\_Mid\_CH



N7(30M)\_CP-OFDM\_64  
QAM\_Outer\_Full\_Mid\_CH

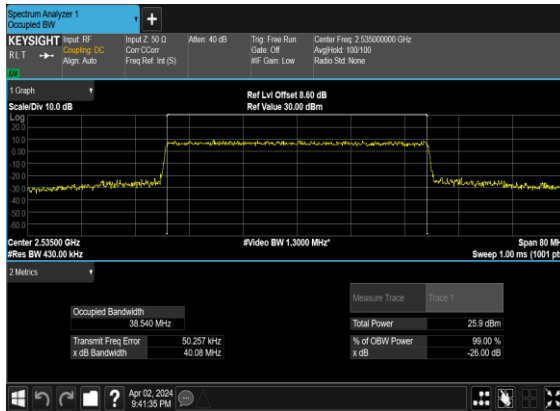


N7(30M)\_CP-OFDM\_256  
QAM\_Outer\_Full\_Mid\_CH

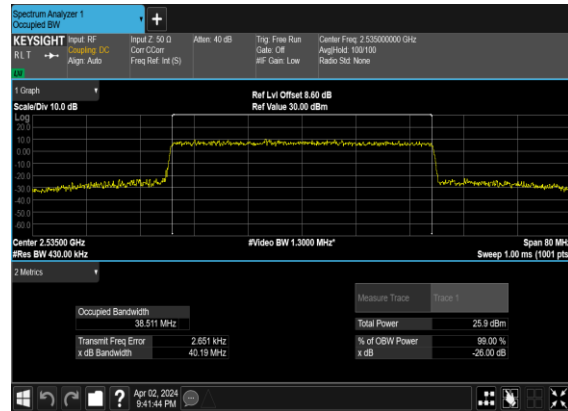




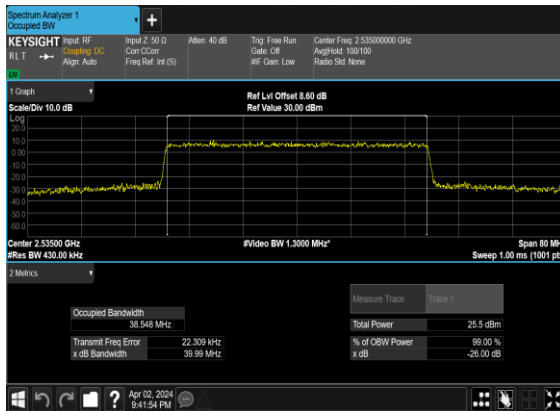
## N7(40M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



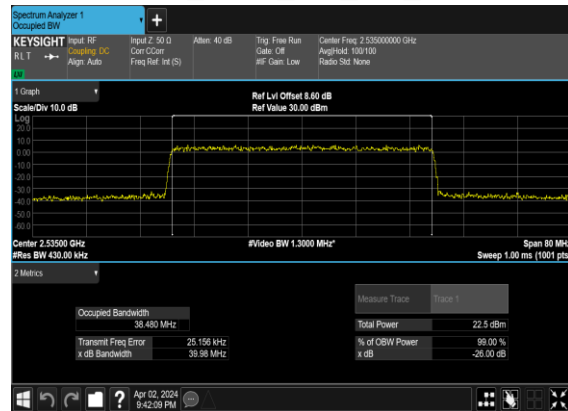
## N7(40M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



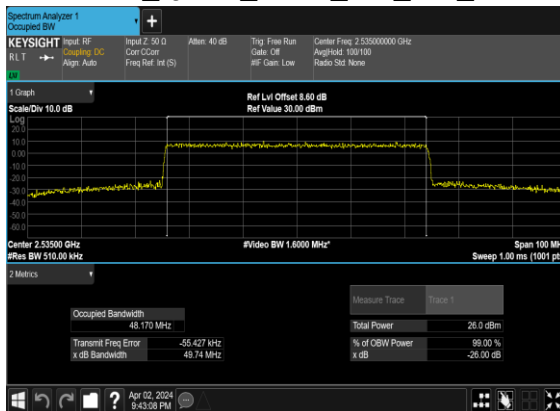
## N7(40M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



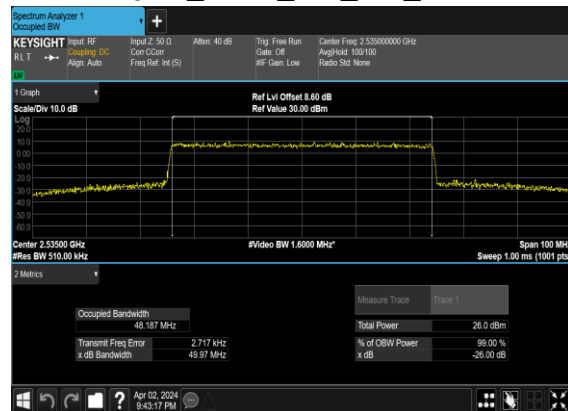
## N7(40M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



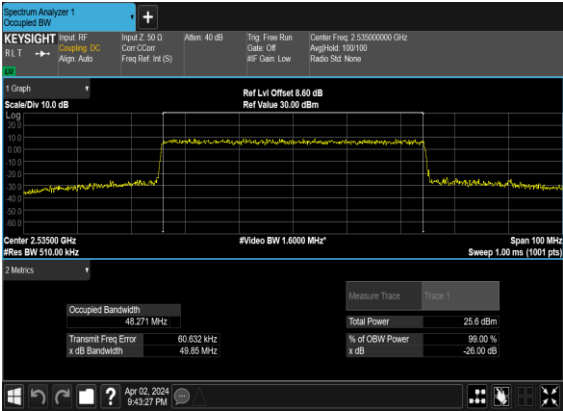
## N7(50M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



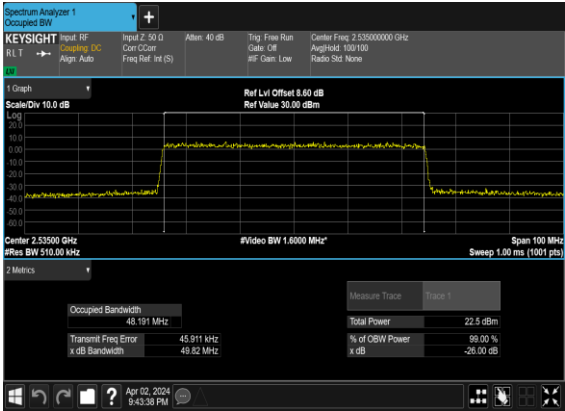
## N7(50M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



N7(50M)\_CP-OFDM\_64  
QAM\_Outer\_Full\_Mid\_CH



N7(50M)\_CP-OFDM\_256  
QAM\_Outer\_Full\_Mid\_CH

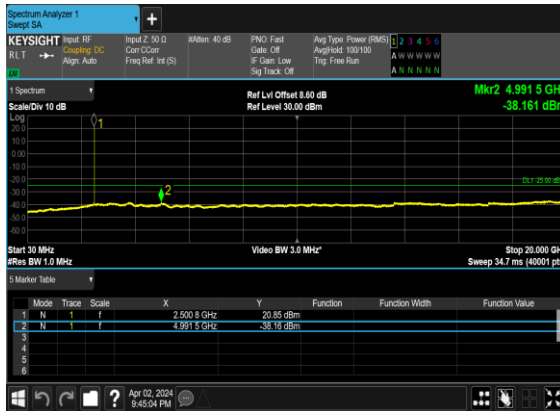


## Conducted Spurious Emissions

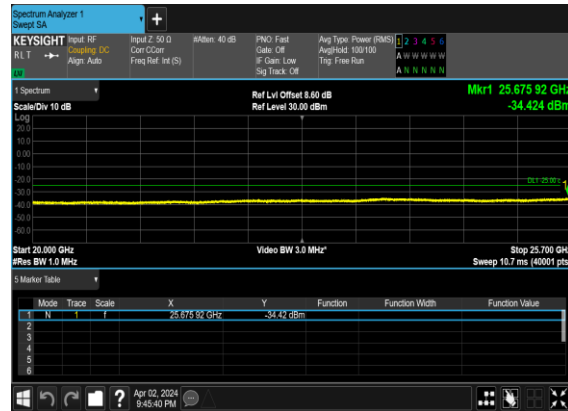
| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation      | RB  | Result    | Verdict |
|---------|-----------|-----------------|--------|------------|-----------------|-----|-----------|---------|
| 7       | 15        | 5               | 500500 | 2502.5     | DFT-s-OFDM BPSK | 1@0 | see graph | ---     |
| 7       | 15        | 5               | 500500 | 2502.5     | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 7       | 15        | 5               | 500500 | 2502.5     | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 7       | 15        | 5               | 500500 | 2502.5     | DFT-s-OFDM QPSK | 1@0 | see graph | ---     |
| 7       | 15        | 5               | 500500 | 2502.5     | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 7       | 15        | 5               | 500500 | 2502.5     | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 7       | 15        | 5               | 507000 | 2535.0     | DFT-s-OFDM BPSK | 1@0 | see graph | ---     |
| 7       | 15        | 5               | 507000 | 2535.0     | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 7       | 15        | 5               | 507000 | 2535.0     | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 7       | 15        | 5               | 507000 | 2535.0     | DFT-s-OFDM QPSK | 1@0 | see graph | ---     |
| 7       | 15        | 5               | 507000 | 2535.0     | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 7       | 15        | 5               | 507000 | 2535.0     | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 7       | 15        | 5               | 513500 | 2567.5     | DFT-s-OFDM BPSK | 1@0 | see graph | ---     |
| 7       | 15        | 5               | 513500 | 2567.5     | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 7       | 15        | 5               | 513500 | 2567.5     | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 7       | 15        | 5               | 513500 | 2567.5     | DFT-s-OFDM QPSK | 1@0 | see graph | ---     |
| 7       | 15        | 5               | 513500 | 2567.5     | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 7       | 15        | 5               | 513500 | 2567.5     | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 7       | 15        | 20              | 502000 | 2510.0     | DFT-s-OFDM BPSK | 1@0 | see graph | ---     |
| 7       | 15        | 20              | 502000 | 2510.0     | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 7       | 15        | 20              | 502000 | 2510.0     | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 7       | 15        | 20              | 502000 | 2510.0     | DFT-s-OFDM QPSK | 1@0 | see graph | ---     |
| 7       | 15        | 20              | 502000 | 2510.0     | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 7       | 15        | 20              | 502000 | 2510.0     | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 7       | 15        | 20              | 507000 | 2535.0     | DFT-s-OFDM BPSK | 1@0 | see graph | ---     |
| 7       | 15        | 20              | 507000 | 2535.0     | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 7       | 15        | 20              | 507000 | 2535.0     | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 7       | 15        | 20              | 507000 | 2535.0     | DFT-s-OFDM QPSK | 1@0 | see graph | ---     |
| 7       | 15        | 20              | 507000 | 2535.0     | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |

|   |    |    |        |        |                    |     |           |             |
|---|----|----|--------|--------|--------------------|-----|-----------|-------------|
| 7 | 15 | 20 | 507000 | 2535.0 | DFT-s-OFDM<br>QPSK | 1@0 | see graph | <b>PASS</b> |
| 7 | 15 | 20 | 512000 | 2560.0 | DFT-s-OFDM<br>BPSK | 1@0 | see graph | ---         |
| 7 | 15 | 20 | 512000 | 2560.0 | DFT-s-OFDM<br>BPSK | 1@0 | see graph | <b>PASS</b> |
| 7 | 15 | 20 | 512000 | 2560.0 | DFT-s-OFDM<br>BPSK | 1@0 | see graph | <b>PASS</b> |
| 7 | 15 | 20 | 512000 | 2560.0 | DFT-s-OFDM<br>QPSK | 1@0 | see graph | ---         |
| 7 | 15 | 20 | 512000 | 2560.0 | DFT-s-OFDM<br>QPSK | 1@0 | see graph | <b>PASS</b> |
| 7 | 15 | 20 | 512000 | 2560.0 | DFT-s-OFDM<br>QPSK | 1@0 | see graph | <b>PASS</b> |
| 7 | 15 | 50 | 505000 | 2525.0 | DFT-s-OFDM<br>BPSK | 1@0 | see graph | ---         |
| 7 | 15 | 50 | 505000 | 2525.0 | DFT-s-OFDM<br>BPSK | 1@0 | see graph | <b>PASS</b> |
| 7 | 15 | 50 | 505000 | 2525.0 | DFT-s-OFDM<br>BPSK | 1@0 | see graph | <b>PASS</b> |
| 7 | 15 | 50 | 505000 | 2525.0 | DFT-s-OFDM<br>QPSK | 1@0 | see graph | ---         |
| 7 | 15 | 50 | 505000 | 2525.0 | DFT-s-OFDM<br>QPSK | 1@0 | see graph | <b>PASS</b> |
| 7 | 15 | 50 | 505000 | 2525.0 | DFT-s-OFDM<br>QPSK | 1@0 | see graph | <b>PASS</b> |
| 7 | 15 | 50 | 507000 | 2535.0 | DFT-s-OFDM<br>BPSK | 1@0 | see graph | ---         |
| 7 | 15 | 50 | 507000 | 2535.0 | DFT-s-OFDM<br>BPSK | 1@0 | see graph | <b>PASS</b> |
| 7 | 15 | 50 | 507000 | 2535.0 | DFT-s-OFDM<br>BPSK | 1@0 | see graph | <b>PASS</b> |
| 7 | 15 | 50 | 507000 | 2535.0 | DFT-s-OFDM<br>QPSK | 1@0 | see graph | ---         |
| 7 | 15 | 50 | 507000 | 2535.0 | DFT-s-OFDM<br>QPSK | 1@0 | see graph | <b>PASS</b> |
| 7 | 15 | 50 | 507000 | 2535.0 | DFT-s-OFDM<br>QPSK | 1@0 | see graph | <b>PASS</b> |
| 7 | 15 | 50 | 509000 | 2545.0 | DFT-s-OFDM<br>BPSK | 1@0 | see graph | ---         |
| 7 | 15 | 50 | 509000 | 2545.0 | DFT-s-OFDM<br>BPSK | 1@0 | see graph | <b>PASS</b> |
| 7 | 15 | 50 | 509000 | 2545.0 | DFT-s-OFDM<br>BPSK | 1@0 | see graph | <b>PASS</b> |
| 7 | 15 | 50 | 509000 | 2545.0 | DFT-s-OFDM<br>QPSK | 1@0 | see graph | ---         |
| 7 | 15 | 50 | 509000 | 2545.0 | DFT-s-OFDM<br>QPSK | 1@0 | see graph | <b>PASS</b> |
| 7 | 15 | 50 | 509000 | 2545.0 | DFT-s-OFDM<br>QPSK | 1@0 | see graph | <b>PASS</b> |

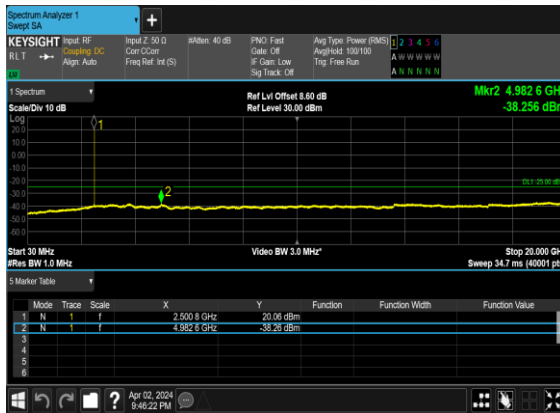
# N7(5M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



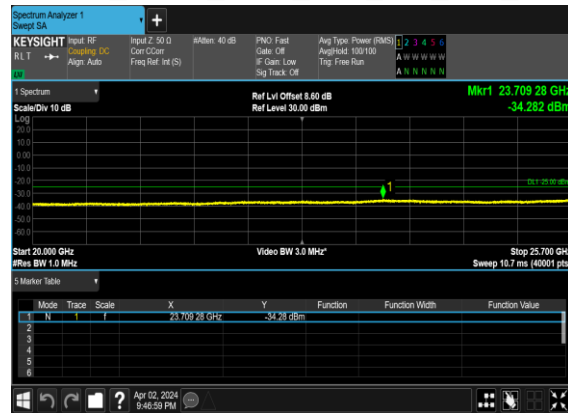
# N7(5M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



# N7(5M)\_DFT-s- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



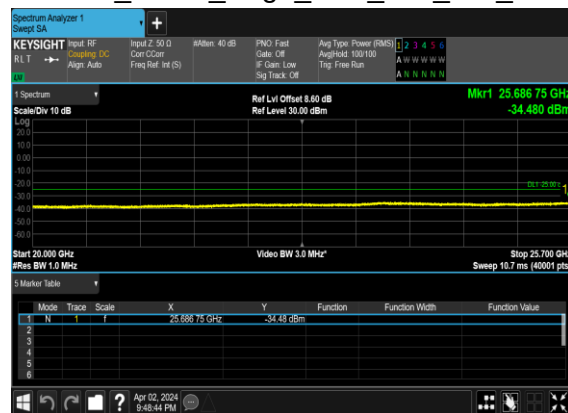
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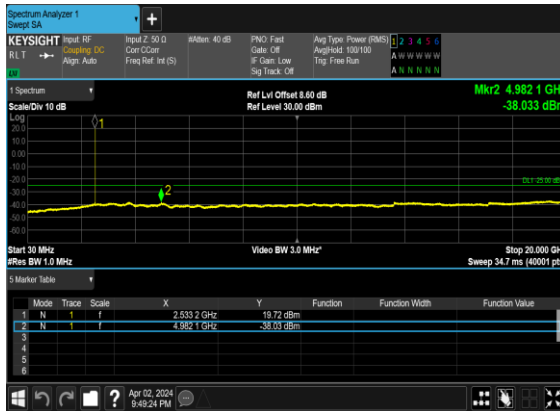
# N7(5M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



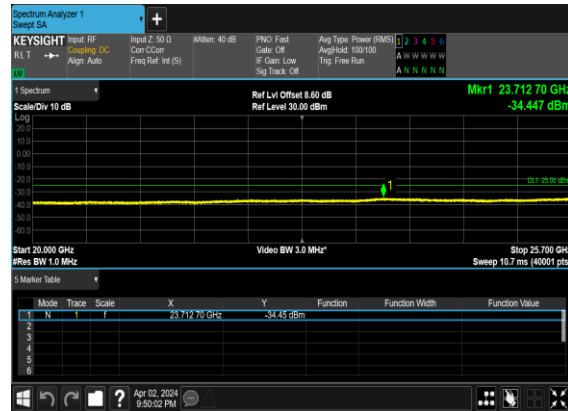
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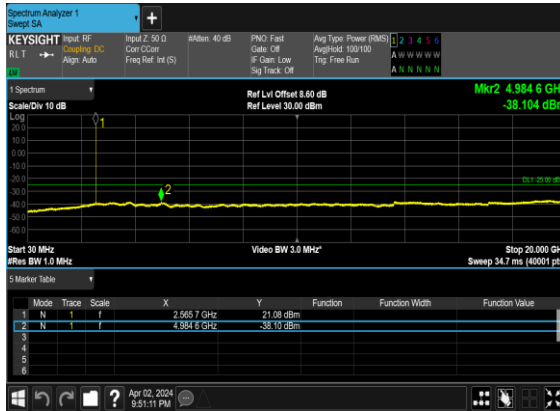
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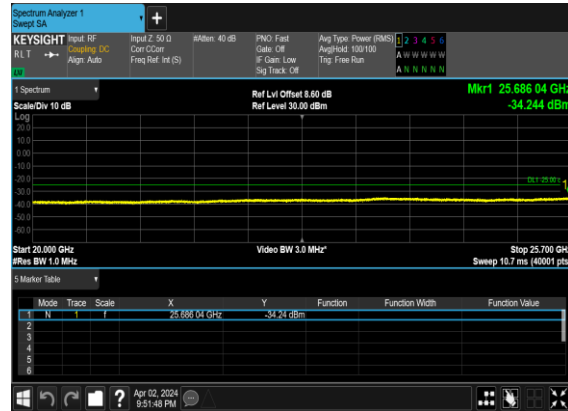
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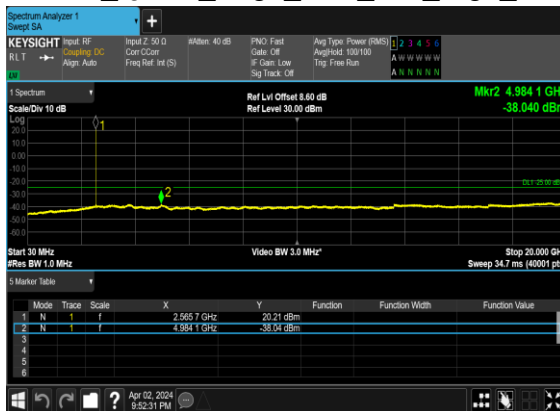
# N7(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



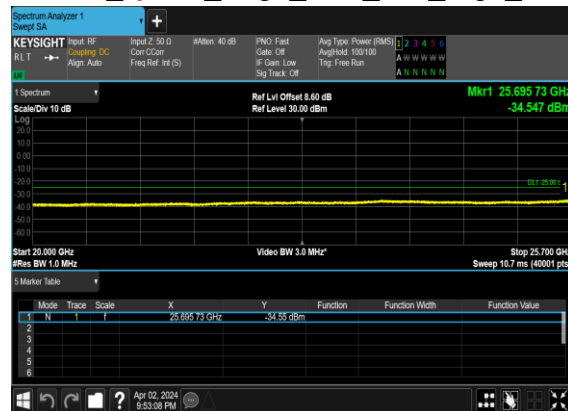
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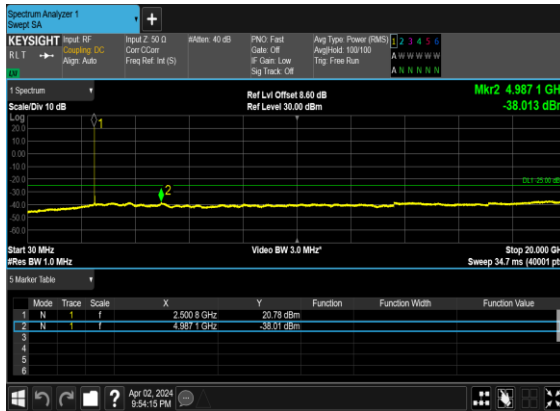
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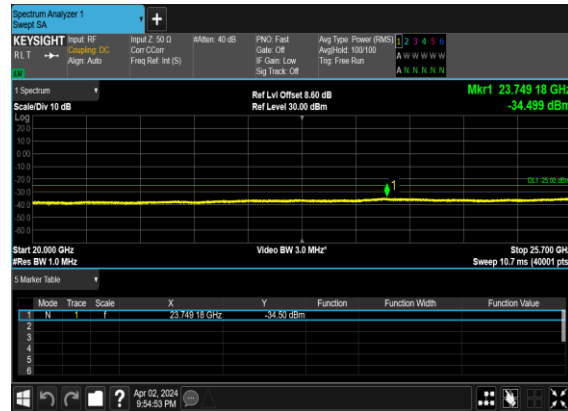
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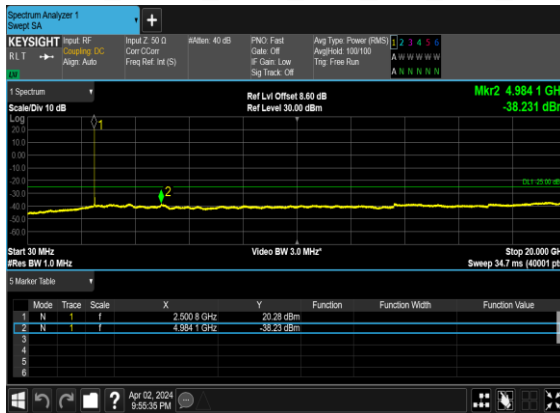
N7(20M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



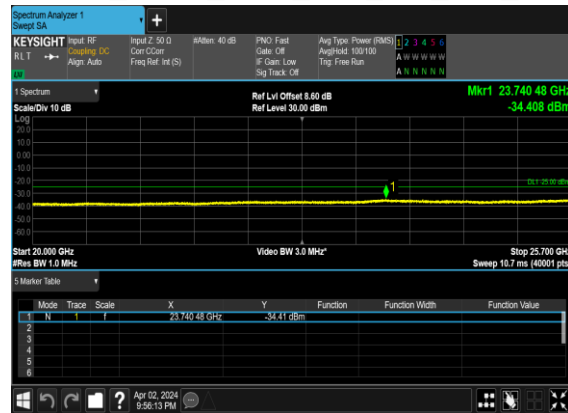
N7(20M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



N7(20M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



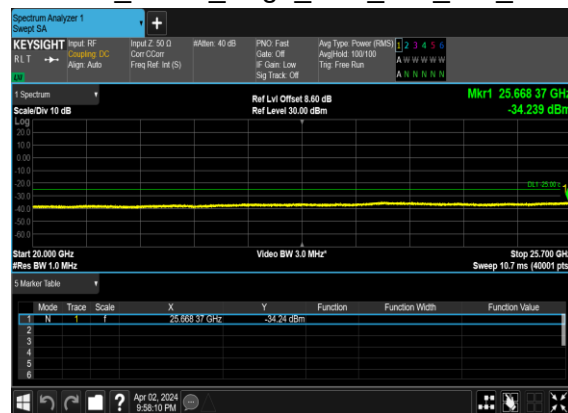
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OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



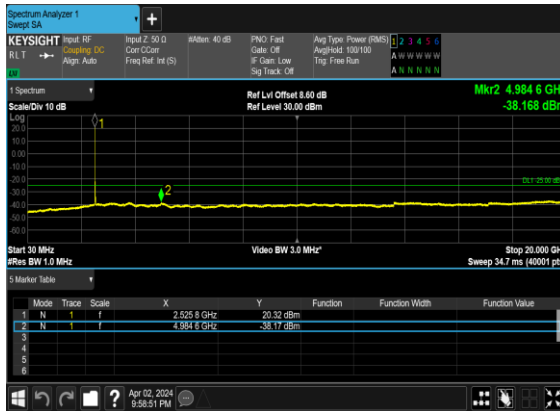
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OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



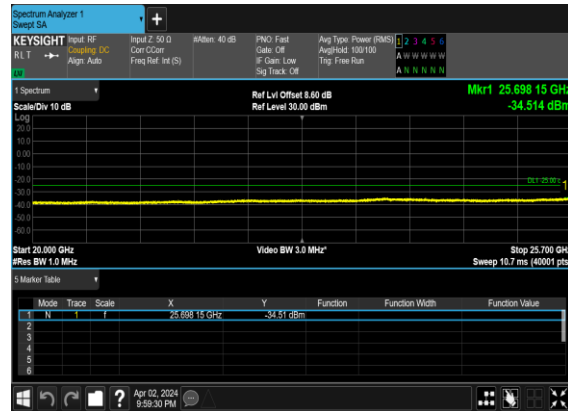
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OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



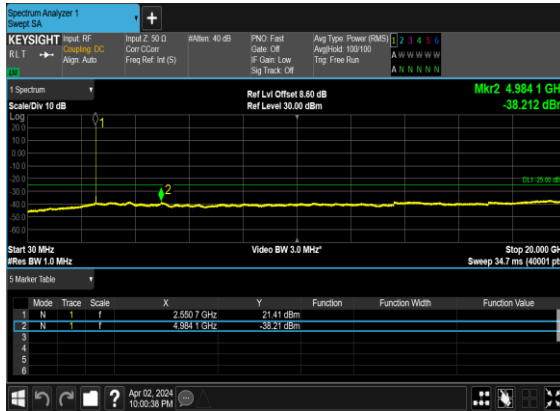
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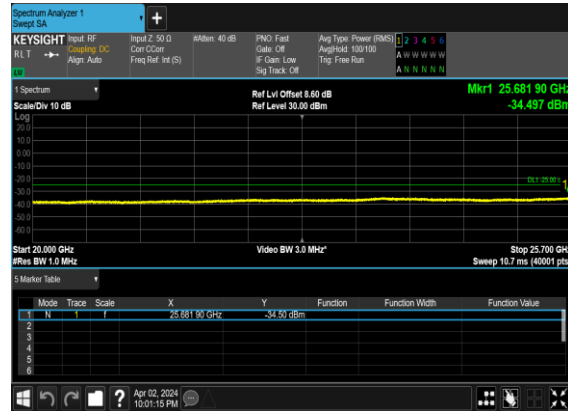
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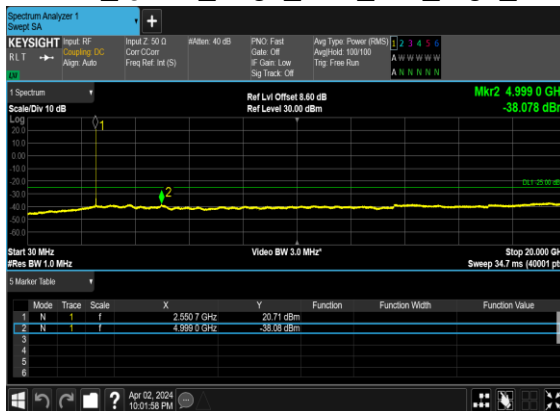
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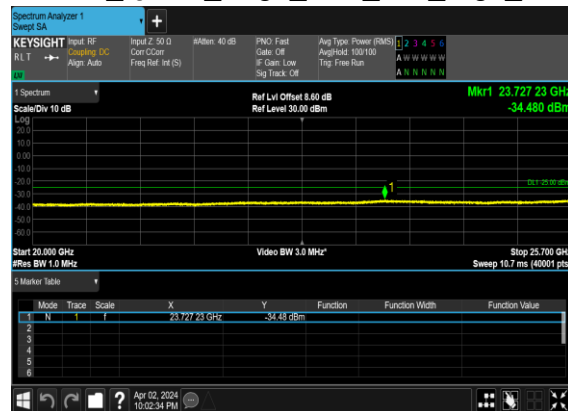
# N7(20M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



# N7(20M)\_DFT-s- OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH

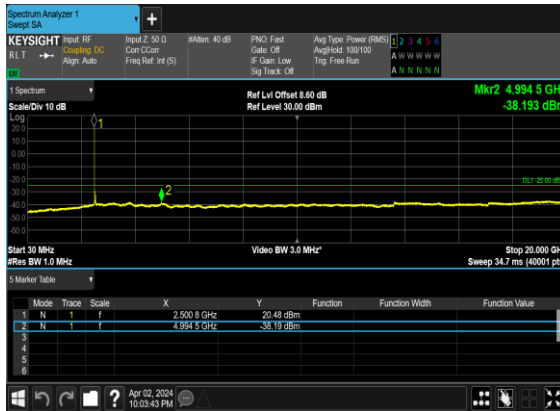


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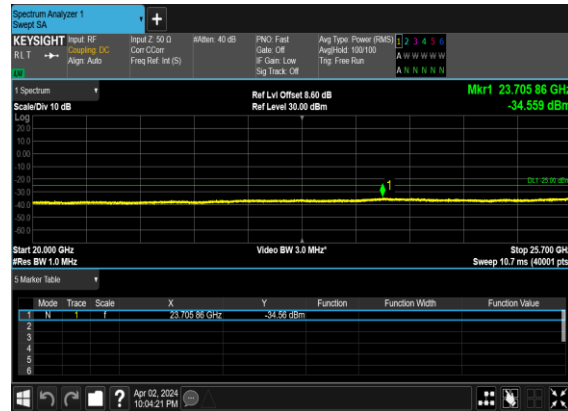




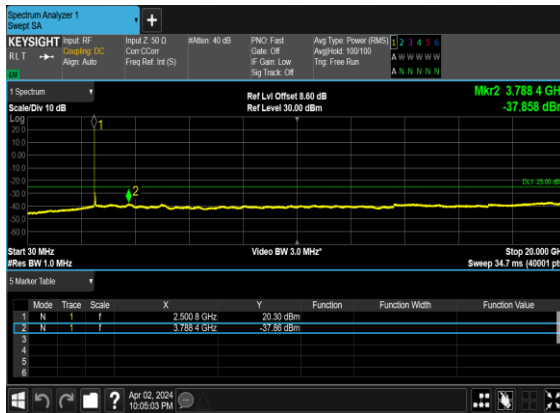
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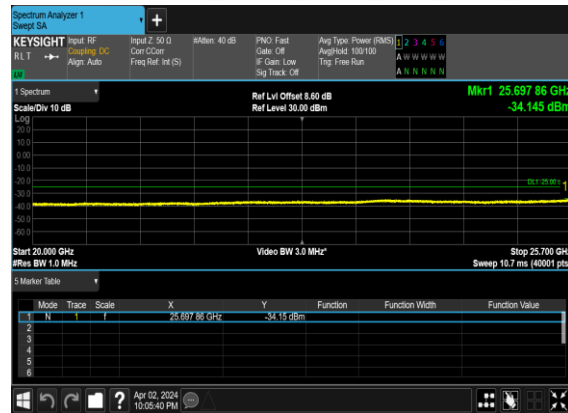
# N7(50M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



# N7(50M)\_DFT-s- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



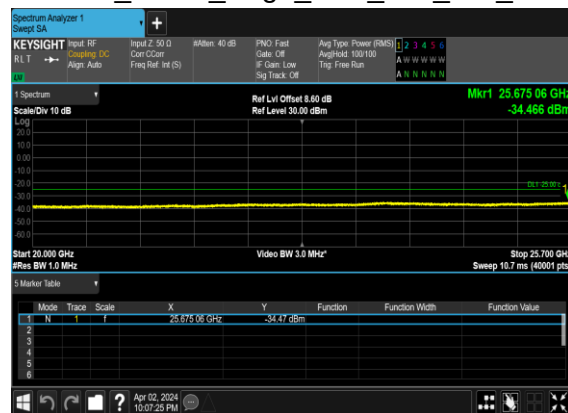
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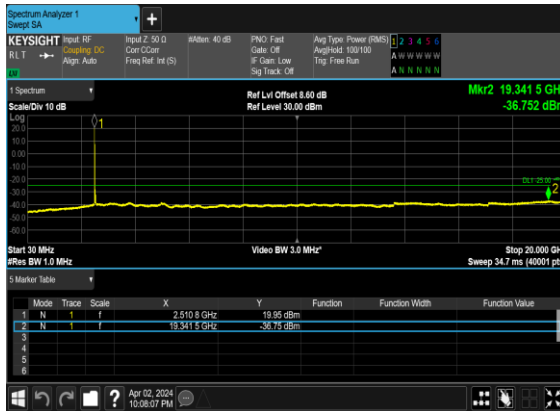
# N7(50M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



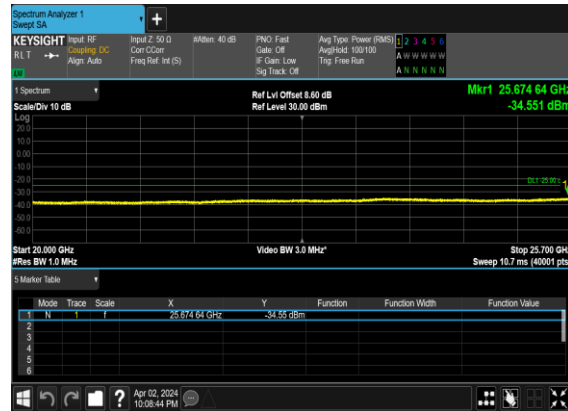
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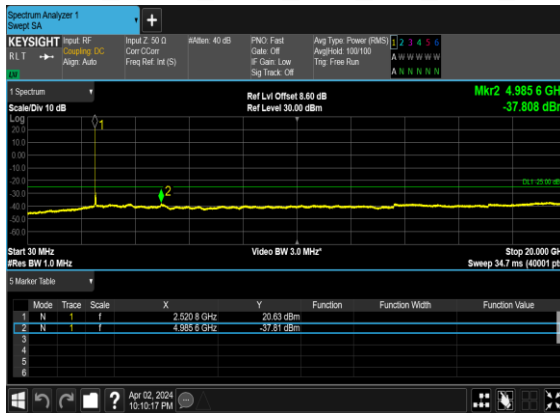
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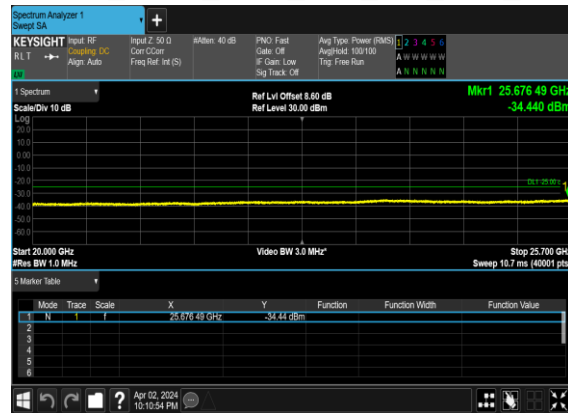
# N7(50M)\_DFT-s- OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



# N7(50M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



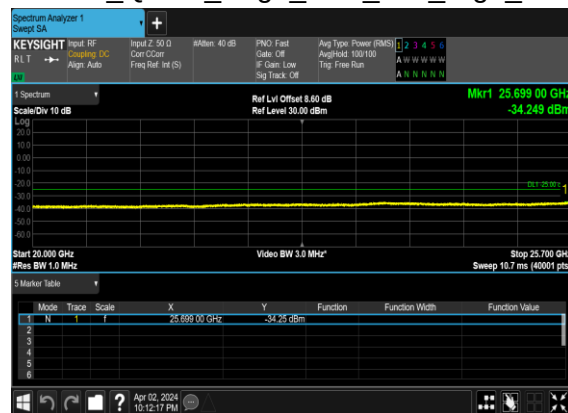
# N7(50M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



# N7(50M)\_DFT-s- OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



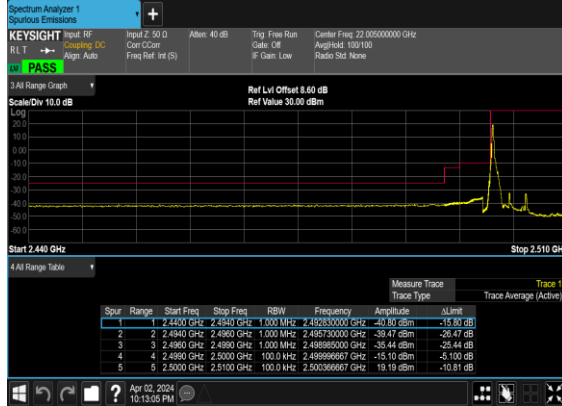
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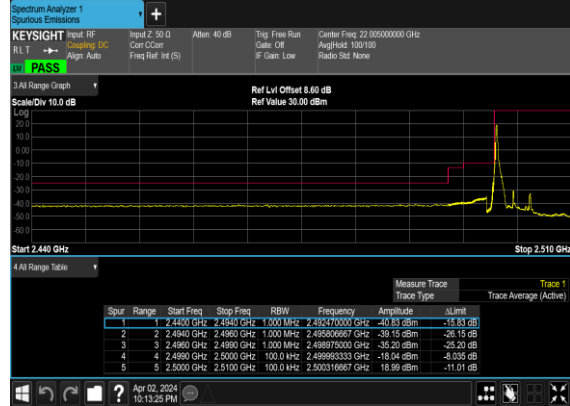
## Conducted Band Edge

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation      | RB    | Result    | Verdict |
|---------|-----------|-----------------|--------|------------|-----------------|-------|-----------|---------|
| 7       | 15        | 5               | 500500 | 2502.5     | DFT-s-OFDM BPSK | 1@0   | see graph | PASS    |
| 7       | 15        | 5               | 500500 | 2502.5     | DFT-s-OFDM QPSK | 1@0   | see graph | PASS    |
| 7       | 15        | 5               | 500500 | 2502.5     | DFT-s-OFDM BPSK | 25@0  | see graph | PASS    |
| 7       | 15        | 5               | 500500 | 2502.5     | DFT-s-OFDM QPSK | 25@0  | see graph | PASS    |
| 7       | 15        | 5               | 513500 | 2567.5     | DFT-s-OFDM BPSK | 1@24  | see graph | PASS    |
| 7       | 15        | 5               | 513500 | 2567.5     | DFT-s-OFDM QPSK | 1@24  | see graph | PASS    |
| 7       | 15        | 5               | 513500 | 2567.5     | DFT-s-OFDM BPSK | 25@0  | see graph | PASS    |
| 7       | 15        | 5               | 513500 | 2567.5     | DFT-s-OFDM QPSK | 25@0  | see graph | PASS    |
| 7       | 15        | 20              | 502000 | 2510.0     | DFT-s-OFDM BPSK | 1@0   | see graph | PASS    |
| 7       | 15        | 20              | 502000 | 2510.0     | DFT-s-OFDM QPSK | 1@0   | see graph | PASS    |
| 7       | 15        | 20              | 502000 | 2510.0     | DFT-s-OFDM BPSK | 100@0 | see graph | PASS    |
| 7       | 15        | 20              | 502000 | 2510.0     | DFT-s-OFDM QPSK | 100@0 | see graph | PASS    |
| 7       | 15        | 20              | 512000 | 2560.0     | DFT-s-OFDM BPSK | 1@105 | see graph | PASS    |
| 7       | 15        | 20              | 512000 | 2560.0     | DFT-s-OFDM QPSK | 1@105 | see graph | PASS    |
| 7       | 15        | 20              | 512000 | 2560.0     | DFT-s-OFDM BPSK | 100@0 | see graph | PASS    |
| 7       | 15        | 20              | 512000 | 2560.0     | DFT-s-OFDM QPSK | 100@0 | see graph | PASS    |
| 7       | 15        | 50              | 505000 | 2525.0     | DFT-s-OFDM BPSK | 1@0   | see graph | PASS    |
| 7       | 15        | 50              | 505000 | 2525.0     | DFT-s-OFDM QPSK | 1@0   | see graph | PASS    |
| 7       | 15        | 50              | 505000 | 2525.0     | DFT-s-OFDM BPSK | 270@0 | see graph | PASS    |
| 7       | 15        | 50              | 505000 | 2525.0     | DFT-s-OFDM QPSK | 270@0 | see graph | PASS    |
| 7       | 15        | 50              | 509000 | 2545.0     | DFT-s-OFDM BPSK | 1@269 | see graph | PASS    |
| 7       | 15        | 50              | 509000 | 2545.0     | DFT-s-OFDM QPSK | 1@269 | see graph | PASS    |
| 7       | 15        | 50              | 509000 | 2545.0     | DFT-s-OFDM BPSK | 270@0 | see graph | PASS    |
| 7       | 15        | 50              | 509000 | 2545.0     | DFT-s-OFDM QPSK | 270@0 | see graph | PASS    |

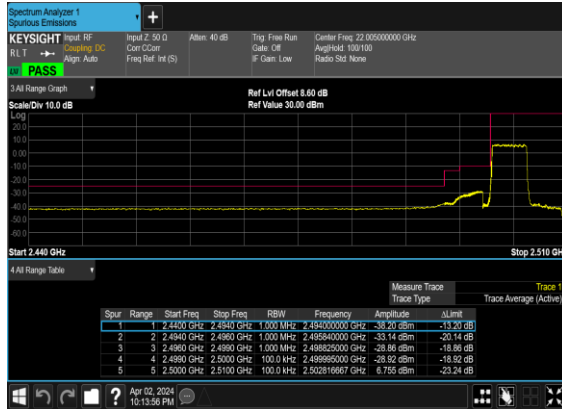
### N7(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



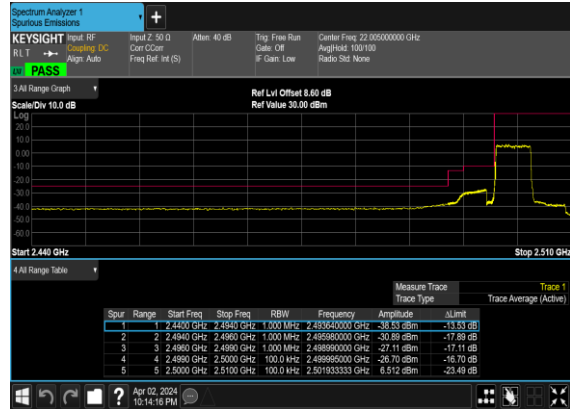
### N7(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



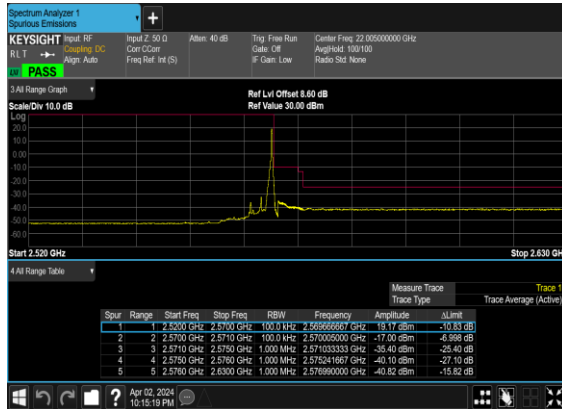
### N7(5M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH



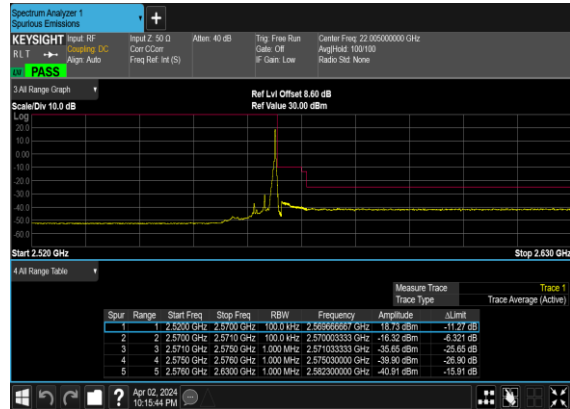
### N7(5M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH



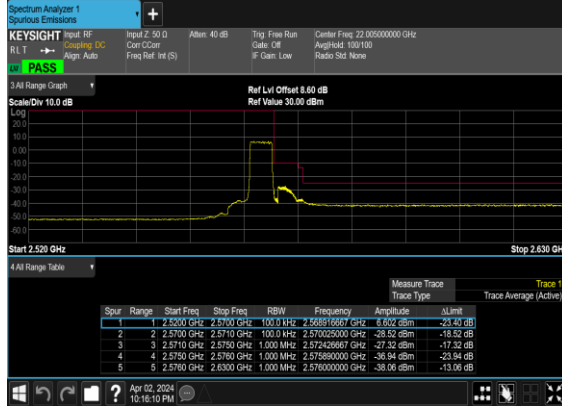
### N7(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



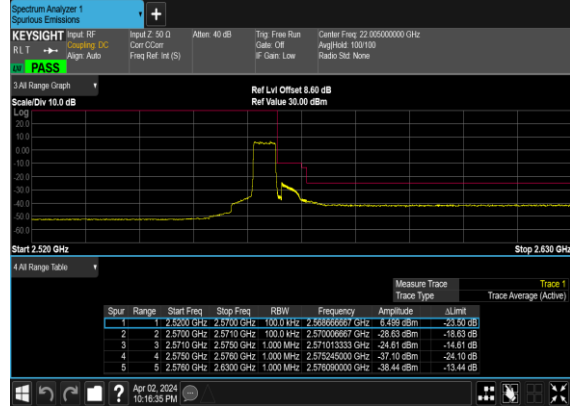
### N7(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



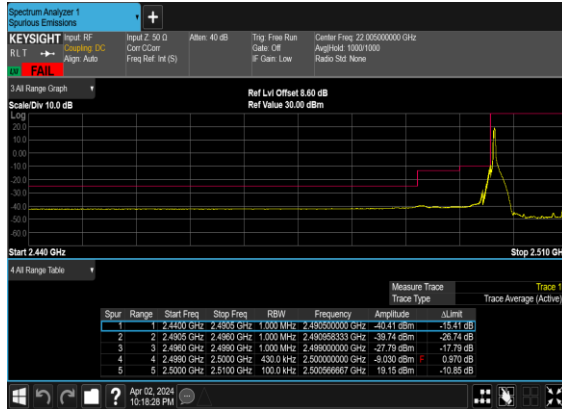
# N7(5M)\_DFT-s- OFDM\_BPSK\_Outer\_Full\_High\_CH



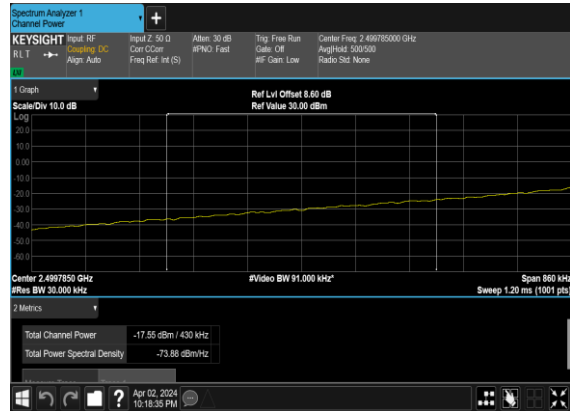
# N7(5M)\_DFT-s- OFDM\_QPSK\_Outer\_Full\_High\_CH



# N7(20M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



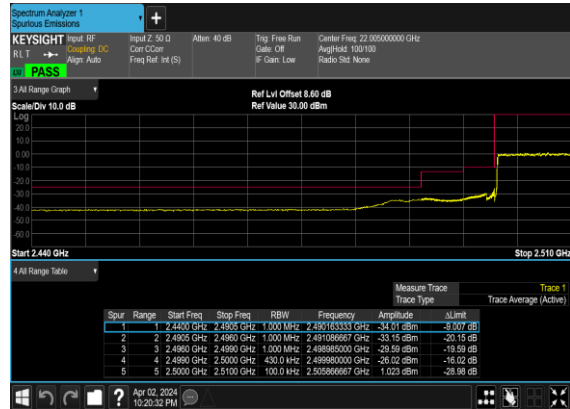
# N7(20M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH\_CHP\_ PASS



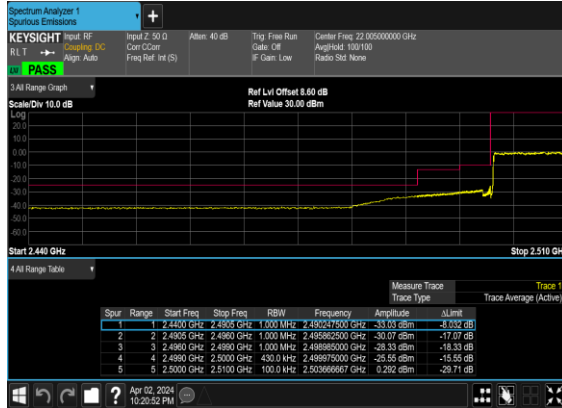
# N7(20M)\_DFT-s- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



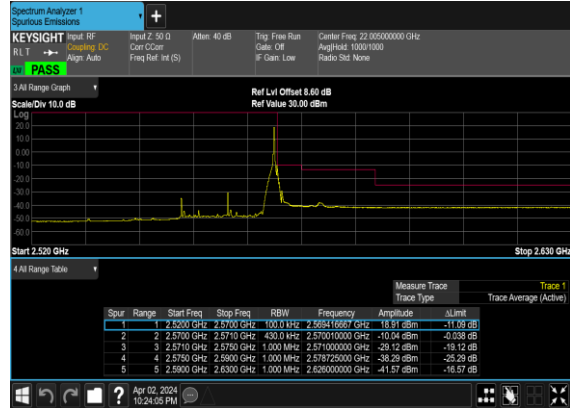
# N7(20M)\_DFT-s- OFDM\_QPSK\_Outer\_Full\_Low\_CH



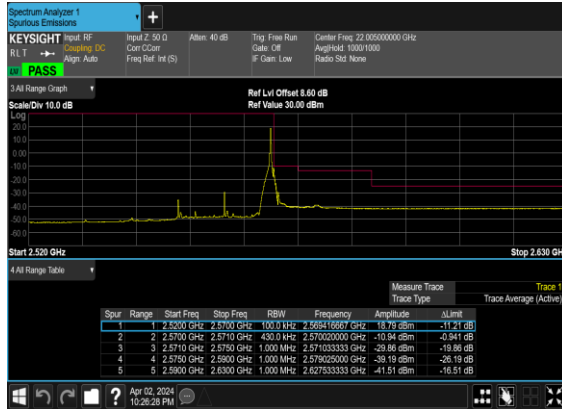
# N7(20M)\_DFT-s- OFDM\_QPSK\_Outer\_Full\_Low\_CH



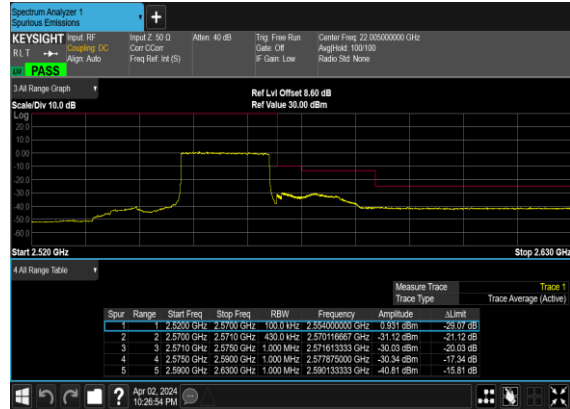
# N7(20M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



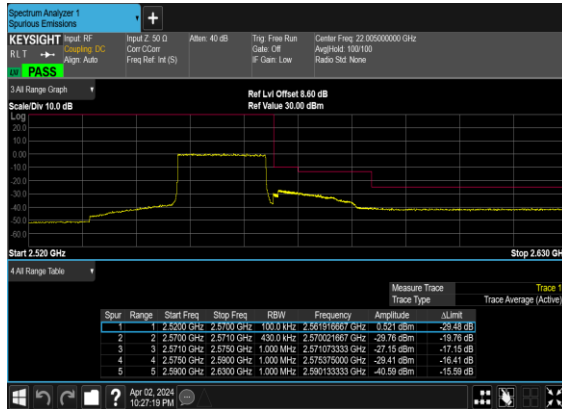
# N7(20M)\_DFT-s- OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



# N7(20M)\_DFT-s- OFDM\_BPSK\_Outer\_Full\_High\_CH



# N7(20M)\_DFT-s- OFDM\_QPSK\_Outer\_Full\_High\_CH



# N7(50M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH

