

# **CERTIFICATION TEST REPORT**

**Report Number.** : S-4791921958-E7V2

**Applicant** : SAMSUNG ELECTRONICS CO., LTD.  
129 SAMSUNG-RO, YEONGTONG-GU, SUWON-SI,  
GYEONGGI-DO, 16677, KOREA

**Model** : SM-S947U, SM-S947U1

**FCC ID** : A3LSMS947U

**EUT Description** : GSM/WCDMA/LTE/5G NR Phone + BT/BLE,  
DTS/UNII a/b/g/n/ac/ax/be, NFC, WPT, UWB and NB NTN

**Test Standard** : FCC 47 CFR PART 30 Mobile Transmitter(5GM)

**Date Of Issue:**  
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Revision History

| Rev. | Issue Date | Revisions                         | Presented by   |
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## 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** SAMSUNG ELECTRONICS CO., LTD.

**EUT DESCRIPTION:** GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax/be, NFC, WPT, UWB and NB NTN

**MODEL NUMBER:** SM-S947U, SM-S947U1

**SERIAL NUMBER:** R3CY90LRJNM, R3CY90LRLGH (Radiated)

**DATE TESTED:** 2025-11-14 - 2025-12-05

| APPLICABLE STANDARDS                 |              |
|--------------------------------------|--------------|
| STANDARD                             | TEST RESULTS |
| FCC PART 30 Mobile Transmitter (5GM) | Complies     |

UL KOREA LTD. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL KOREA LTD. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

**Note:** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL KOREA LTD. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL KOREA LTD. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by IAS, any agency of the Federal Government, or any agency of any government.

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Tested By:



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UL KOREA LTD.



Myeongjun Kwon  
Suwon Lab Engineer  
UL KOREA LTD.

## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with following methods.

1. FCC 47 CFR Part 2.
2. FCC 47 CFR Part 30.
3. ANSI C63.26-2015
4. KDB 842590 D01 Upper Microwave Flexible Use Service v01r03
5. KDB 971168 D01 Power Meas License Digital Systems v03r01

## 3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea. Line conducted emissions are measured only at the 218 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

| 218 Maeyeong-ro                     |                                     |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/>            | Chamber 1(3m semi-anechoic chamber) |
| <input checked="" type="checkbox"/> | Chamber 2(3m semi-anechoic chamber) |
| <input type="checkbox"/>            | Chamber 3(3m semi-anechoic chamber) |
| <input type="checkbox"/>            | Chamber 4(3m Full-anechoic chamber) |
| <input checked="" type="checkbox"/> | Chamber 5(3m Full-anechoic chamber) |

UL KOREA LTD. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf>.

## 4. CALIBRATION AND UNCERTAINTY

### 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

### 4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength[dBuV/m] = PXA reading with EUT worst orientation (dBm) +  
Antenna Factor(dBuV/m) + cable loss(dB) + 107

EIRP[dBm] = PXA reading with EUT worst orientation (dBm) + Path loss (dB) –  
cable loss( between the SG and substitution antenna) + Substitution Antenna Gain  
(dBi)

### 4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| PARAMETER                             | UNCERTAINTY             |
|---------------------------------------|-------------------------|
| Frequency Stability                   | $5.5 \times 10^{-8}$ Hz |
| Radiated Disturbance, 30 MHz to 1 GHz | 3.69 dB                 |
| Radiated Disturbance, 1 GHz to 18 GHz | 5.18 dB                 |
| Radiated Disturbance, Above 18 GHz    | 5.07 dB                 |

Uncertainty figures are valid to a confidence level of 95%.

### 4.4. DECISION RULE

Decision rule for statement(s) of conformity is based on Clause 4.4.3 in IEC Guide 115:2023.

## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax/be, NFC, WPT, UWB and NB NTN . This test report addresses the 5G NR FR2 operational mode.

| Representative model | Comparison Criteria | Derivative model                                         |
|----------------------|---------------------|----------------------------------------------------------|
|                      |                     | SM-S947U1                                                |
| SM-S947U             | Hardware            | Identical                                                |
|                      | Software            | UI modified according to Service Provider specifications |

The SM-S947U model was used as the representative model for final testing. All test results in this report apply to both the representative model and its derivative variants.

This test report addresses the 5G RF2 NR operational mode on following frequency bands:

n258(denoted as n258 SB1 in this report): 24.25 – 24.45 GHz (TDD)  
n258(denoted as n258 SB2 in this report): 24.75 – 25.25 GHz (TDD)  
n261: 27.5 – 28.35 GHz (TDD)  
n260: 37 – 40 GHz (TDD)

The EUT has an array antenna configuration.

1 patch, placed on the EUT(denoted as L patch). The patch antenna is comprised of two separate antenna feeds - one for horizontal and one for vertical polarization and 1 × 5 dual-polarized patch arrays.

| Antenna   | Name    |
|-----------|---------|
| Antenna 1 | L Patch |

| # CC's | BW (MHz) | Total CC BW (MHz) | antenna | 24.25~24.45GHz (n258-R1) | 24.75~25.25GHz (n258-R2) | 27.5~28.35GHz (n261) | 37~40GHz (n260) |
|--------|----------|-------------------|---------|--------------------------|--------------------------|----------------------|-----------------|
| 1CC    | 50       | 50                | L Patch | O                        | O                        | O                    | O               |
|        | 100      | 100               | L Patch | O                        | O                        | O                    | O               |
| 2CC    | 50       | 100               | L Patch | -                        | -                        | -                    | -               |
|        | 100      | 200               | L Patch | O                        | O                        | O                    | O               |
| 3CC    | 50       | 150               | L Patch | -                        | -                        | -                    | -               |
|        | 100      | 300               | L Patch | -                        | O                        | O                    | O               |
| 4CC    | 50       | 200               | L Patch | -                        | -                        | -                    | -               |
|        | 100      | 400               | L Patch | -                        | O                        | O                    | O               |

The EUT supports up to 4CC for UL. For each CC, the EUT supports 50MHz and 100MHz bandwidth.

For modulation, the EUT supports a subcarrier spacing (SCS) of 120kHz with two transmission schemes, CP-OFDM and DFT-s-OFDM, with QPSK, pi/2-BPSK, 16-QAM, and 64-QAM modulations.

Different Beam IDs are supported, each corresponding to a different position in space for the antenna. During testing, FTM (Factory Test Mode) was used to operate the transmitter.

MIMO operation was achieved by enabling two Beam IDs at the same time: one from the list of H Beam IDs and the other from the list of V Beam IDs.

SISO-Dual Mode operation was also achieved by enabling two Beam IDs simultaneously (one horizontal and one vertical), with each polarization functioning as an independent transmission channel with its own signal processing path.

The manufacturer provided EIRP simulation data for all beam IDs. From these simulation results, we selected at least three high-EIRP beam IDs for actual measurement verification, with additional beam IDs tested as needed. The beam ID that demonstrated the highest EIRP in actual measurement was subsequently selected for all testing. All tests were performed in stand-alone mode of operation without signaling.

## 5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum average radiated EIRP output powers as follows:

### Antenna 1 / Ant L, n258 SB1

| FCC Part 30 |                       |         |                 |            |           |            |              |                |
|-------------|-----------------------|---------|-----------------|------------|-----------|------------|--------------|----------------|
| Band        | Frequency Range [GHz] | Antenna | BandWidth [MHz] | CCs Active | Mode      | Modulation | Radiated     |                |
|             |                       |         |                 |            |           |            | Avg [dBm]    | Avg [mW]       |
| n258 SB1    | 24.25 - 24.45         | Ant L   | 50              | 1CC        | SISO      | BPSK       | 28.47        | 703.07         |
|             |                       |         |                 |            | SISO-Dual | QPSK       | <b>31.29</b> | <b>1345.86</b> |
|             |                       |         |                 |            | SISO-Dual | pi/2-BPSK  | 31.03        | 1267.65        |
|             |                       |         |                 |            | SISO-Dual | 16QAM      | 31.07        | 1279.38        |
|             |                       |         |                 |            | SISO-Dual | 64QAM      | 28.07        | 641.21         |
|             |                       |         |                 |            | MIMO      | QPSK       | 30.07        | 1016.25        |
|             |                       |         | 100             | 1CC        | SISO      | QPSK       | 29.20        | 831.76         |
|             |                       |         |                 |            | SISO-Dual | QPSK       | <b>30.41</b> | <b>1099.01</b> |
|             |                       |         |                 |            | SISO-Dual | pi/2-BPSK  | 29.96        | 990.83         |
|             |                       |         |                 |            | SISO-Dual | 16QAM      | 26.46        | 442.59         |
|             |                       |         |                 |            | SISO-Dual | 64QAM      | 27.51        | 563.64         |
|             |                       |         |                 |            | MIMO      | QPSK       | 29.44        | 879.02         |
|             |                       |         |                 | 2CC        | SISO-Dual | QPSK       | 29.46        | 883.08         |
|             |                       |         |                 |            | SISO-Dual | pi/2-BPSK  | <b>29.48</b> | <b>887.16</b>  |
|             |                       |         |                 |            | SISO-Dual | 16QAM      | 28.95        | 785.24         |
|             |                       |         |                 |            | SISO-Dual | 64QAM      | 25.41        | 347.54         |

**Antenna 1 / Ant L, n258 SB2**

| FCC Part 30 |                       |         |                 |            |           |            |              |                |
|-------------|-----------------------|---------|-----------------|------------|-----------|------------|--------------|----------------|
| Band        | Frequency Range [GHz] | Antenna | BandWidth [MHz] | CCs Active | Mode      | Modulation | Radiated     |                |
|             |                       |         |                 |            |           |            | Avg [dBm]    | Avg [mW]       |
| n258 SB2    | 24.75 - 25.25         | Ant L   | 50              | 1CC        | SISO      | 16QAM      | 28.34        | 682.34         |
|             |                       |         |                 |            | SISO-Dual | QPSK       | <b>29.81</b> | <b>957.19</b>  |
|             |                       |         |                 |            | SISO-Dual | pi/2-BPSK  | 29.72        | 937.56         |
|             |                       |         |                 |            | SISO-Dual | 16QAM      | 29.73        | 939.72         |
|             |                       |         |                 |            | SISO-Dual | 64QAM      | 26.64        | 461.32         |
|             |                       |         |                 |            | MIMO      | QPSK       | 28.68        | 737.90         |
|             |                       |         | 100             | 1CC        | SISO      | QPSK       | 29.06        | 805.38         |
|             |                       |         |                 |            | SISO-Dual | QPSK       | <b>31.28</b> | <b>1342.76</b> |
|             |                       |         |                 |            | SISO-Dual | pi/2-BPSK  | 30.51        | 1124.60        |
|             |                       |         |                 |            | SISO-Dual | 16QAM      | 30.39        | 1093.96        |
|             |                       |         |                 |            | SISO-Dual | 64QAM      | 27.26        | 532.11         |
|             |                       |         |                 |            | MIMO      | QPSK       | 29.43        | 877.00         |
|             |                       |         |                 | 2CC        | SISO-Dual | QPSK       | <b>27.82</b> | <b>605.34</b>  |
|             |                       |         |                 |            | SISO-Dual | pi/2-BPSK  | 27.78        | 599.79         |
|             |                       |         |                 |            | SISO-Dual | 16QAM      | 27.28        | 534.56         |
|             |                       |         |                 |            | SISO-Dual | 64QAM      | 23.66        | 232.27         |
|             |                       |         |                 | 3CC        | SISO-Dual | QPSK       | 25.26        | 335.74         |
|             |                       |         |                 |            | SISO-Dual | pi/2-BPSK  | <b>25.28</b> | <b>337.29</b>  |
|             |                       |         |                 |            | SISO-Dual | 16QAM      | 24.38        | 274.16         |
|             |                       |         |                 |            | SISO-Dual | 64QAM      | 22.36        | 172.19         |
|             |                       |         |                 | 4CC        | SISO-Dual | QPSK       | <b>25.07</b> | <b>321.37</b>  |
|             |                       |         |                 |            | SISO-Dual | pi/2-BPSK  | 25.05        | 319.89         |
|             |                       |         |                 |            | SISO-Dual | 16QAM      | 24.22        | 264.24         |
|             |                       |         |                 |            | SISO-Dual | 64QAM      | 22.71        | 186.64         |

**Antenna 1 / Ant L, n261**

| FCC Part 30 |                       |         |                 |            |           |            |              |                |
|-------------|-----------------------|---------|-----------------|------------|-----------|------------|--------------|----------------|
| Band        | Frequency Range [GHz] | Antenna | BandWidth [MHz] | CCs Active | Mode      | Modulation | Radiated     |                |
|             |                       |         |                 |            |           |            | Avg [dBm]    | Avg [mW]       |
| n261        | 27.5 - 28.35          | Ant L   | 50              | 1CC        | SISO      | QPSK       | 30.90        | 1230.27        |
|             |                       |         |                 |            | SISO-Dual | QPSK       | <b>32.14</b> | <b>1636.82</b> |
|             |                       |         |                 |            | SISO-Dual | pi/2-BPSK  | 31.25        | 1333.52        |
|             |                       |         |                 |            | SISO-Dual | 16QAM      | 30.56        | 1137.63        |
|             |                       |         |                 |            | SISO-Dual | 64QAM      | 27.51        | 563.64         |
|             |                       |         |                 |            | MIMO      | QPSK       | 29.71        | 935.41         |
|             |                       |         | 100             | 1CC        | SISO      | QPSK       | 31.61        | 1448.77        |
|             |                       |         |                 |            | SISO-Dual | QPSK       | <b>33.50</b> | <b>2238.72</b> |
|             |                       |         |                 |            | SISO-Dual | pi/2-BPSK  | 32.91        | 1954.34        |
|             |                       |         |                 |            | SISO-Dual | 16QAM      | 32.45        | 1757.92        |
|             |                       |         |                 |            | SISO-Dual | 64QAM      | 28.95        | 785.24         |
|             |                       |         |                 |            | MIMO      | QPSK       | 31.50        | 1412.54        |
|             |                       |         |                 | 2CC        | SISO-Dual | QPSK       | <b>29.95</b> | <b>988.55</b>  |
|             |                       |         |                 |            | SISO-Dual | pi/2-BPSK  | 29.94        | 986.28         |
|             |                       |         |                 |            | SISO-Dual | 16QAM      | 29.42        | 874.98         |
|             |                       |         |                 |            | SISO-Dual | 64QAM      | 25.73        | 374.11         |
|             |                       |         |                 | 3CC        | SISO-Dual | QPSK       | <b>27.34</b> | <b>542.00</b>  |
|             |                       |         |                 |            | SISO-Dual | pi/2-BPSK  | 27.33        | 540.75         |
|             |                       |         |                 |            | SISO-Dual | 16QAM      | 26.32        | 428.55         |
|             |                       |         |                 |            | SISO-Dual | 64QAM      | 24.76        | 299.23         |
|             |                       |         |                 | 4CC        | SISO-Dual | QPSK       | 26.99        | 500.03         |
|             |                       |         |                 |            | SISO-Dual | pi/2-BPSK  | <b>27.01</b> | <b>502.34</b>  |
|             |                       |         |                 |            | SISO-Dual | 16QAM      | 26.11        | 408.32         |
|             |                       |         |                 |            | SISO-Dual | 64QAM      | 24.60        | 288.40         |

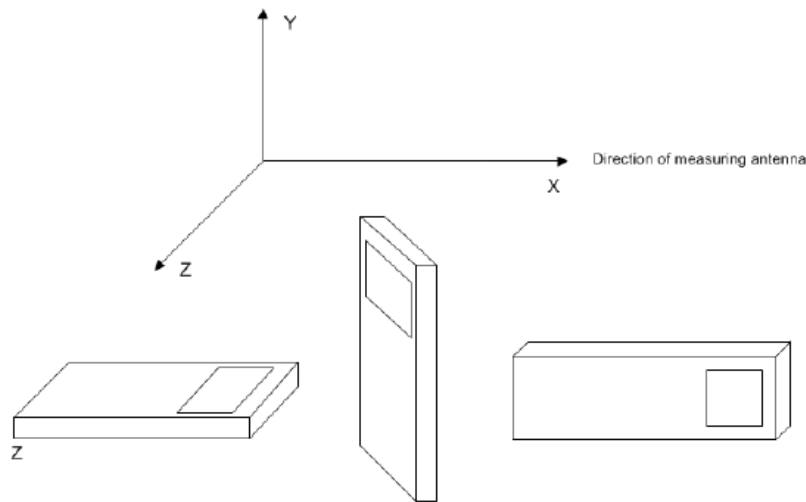
**Antenna 1 / Ant L, n260**

| FCC Part 30 |                       |         |                 |            |           |            |              |               |
|-------------|-----------------------|---------|-----------------|------------|-----------|------------|--------------|---------------|
| Band        | Frequency Range [GHz] | Antenna | BandWidth [MHz] | CCs Active | Mode      | Modulation | Radiated     |               |
|             |                       |         |                 |            |           |            | Avg [dBm]    | Avg [mW]      |
| n260        | 37 - 40               | Ant L   | 50              | 1CC        | SISO      | QPSK       | 27.94        | 622.30        |
|             |                       |         |                 |            | SISO-Dual | QPSK       | <b>28.59</b> | <b>722.77</b> |
|             |                       |         |                 |            | SISO-Dual | pi/2-BPSK  | 27.70        | 588.84        |
|             |                       |         |                 |            | SISO-Dual | 16QAM      | 27.94        | 622.30        |
|             |                       |         |                 |            | SISO-Dual | 64QAM      | 24.87        | 306.90        |
|             |                       |         |                 |            | MIMO      | QPSK       | 27.32        | 539.51        |
|             |                       |         | 100             | 1CC        | SISO      | QPSK       | 28.81        | 760.33        |
|             |                       |         |                 |            | SISO-Dual | QPSK       | 28.83        | 763.84        |
|             |                       |         |                 |            | SISO-Dual | pi/2-BPSK  | <b>28.86</b> | <b>769.13</b> |
|             |                       |         |                 |            | SISO-Dual | 16QAM      | 28.78        | 755.09        |
|             |                       |         |                 |            | SISO-Dual | 64QAM      | 25.76        | 376.70        |
|             |                       |         |                 |            | MIMO      | QPSK       | 28.48        | 704.69        |
|             |                       |         |                 | 2CC        | SISO-Dual | QPSK       | <b>25.81</b> | <b>381.07</b> |
|             |                       |         |                 |            | SISO-Dual | pi/2-BPSK  | 25.78        | 378.44        |
|             |                       |         |                 |            | SISO-Dual | 16QAM      | 25.29        | 338.06        |
|             |                       |         |                 |            | SISO-Dual | 64QAM      | 21.81        | 151.71        |
|             |                       |         |                 | 3CC        | SISO-Dual | QPSK       | 23.21        | 209.41        |
|             |                       |         |                 |            | SISO-Dual | pi/2-BPSK  | 23.23        | 210.38        |
|             |                       |         |                 |            | SISO-Dual | 16QAM      | <b>23.76</b> | <b>237.68</b> |
|             |                       |         |                 |            | SISO-Dual | 64QAM      | 20.77        | 119.40        |
|             |                       |         |                 | 4CC        | SISO-Dual | QPSK       | 23.25        | 211.35        |
|             |                       |         |                 |            | SISO-Dual | pi/2-BPSK  | 23.30        | 213.80        |
|             |                       |         |                 |            | SISO-Dual | 16QAM      | <b>23.68</b> | <b>233.35</b> |
|             |                       |         |                 |            | SISO-Dual | 64QAM      | 21.13        | 129.72        |

### 5.3. WORST-CASE ORIENTATION

For all 5G NR FR2 Bands, the worst-case scenario for all measurements is based on the EIRP measurement investigation results. EIRP were measured on QPSK,  $\pi/2$ -BPSK, 16QAM and 64QAM modulations. It was found that QPSK results were worst case.  $\pi/2$ -BPSK, 16QAM and 64QAM EIRP testing were performed based on QPSK worst channel modulations to represent the worst case. However, the out of band emissions and spurious radiation were only performed on bandwidth and RB offset(with RB size 1) with the highest EIRP in QPSK.

The fundamental and radiated spurious emission were investigated in EUT through several positions in space by rotating about the roll axis, where is applicable. The final optimum position resulting in the highest EIRP for the frequency or band under investigation is placed on an open-air fixture allowing no blockage of the signal as measured by the receiving antenna.



Note : By consulting the EIRP simulation data for all beam IDs and performing spot checks on the IDs with the highest EIRPs, we determined the worst case Beam ID pair for SISO operation and Beam ID pair for MIMO operation. This beam ID was used for final measurements.

## 5.4. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

| Support Equipment List |             |          |                |        |
|------------------------|-------------|----------|----------------|--------|
| Description            | Manufacture | Model    | Serial Number  | FCC ID |
| Charger                | SAMSUNG     | EP-T2510 | RF7X1YF85Z1DKA | N/A    |
| Data Cable             | SAMSUNG     | EP-DN980 | N/A            | N/A    |

### I/O CABLE

| I/O Cable List |          |                      |                |            |                  |         |
|----------------|----------|----------------------|----------------|------------|------------------|---------|
| Cable No.      | Port     | # of identical ports | Connector Type | Cable Type | Cable Length (m) | Remarks |
| 1              | DC Power | 1                    | Type-C         | Shielded   | 1.0 m            | N/A     |

### TEST SETUP

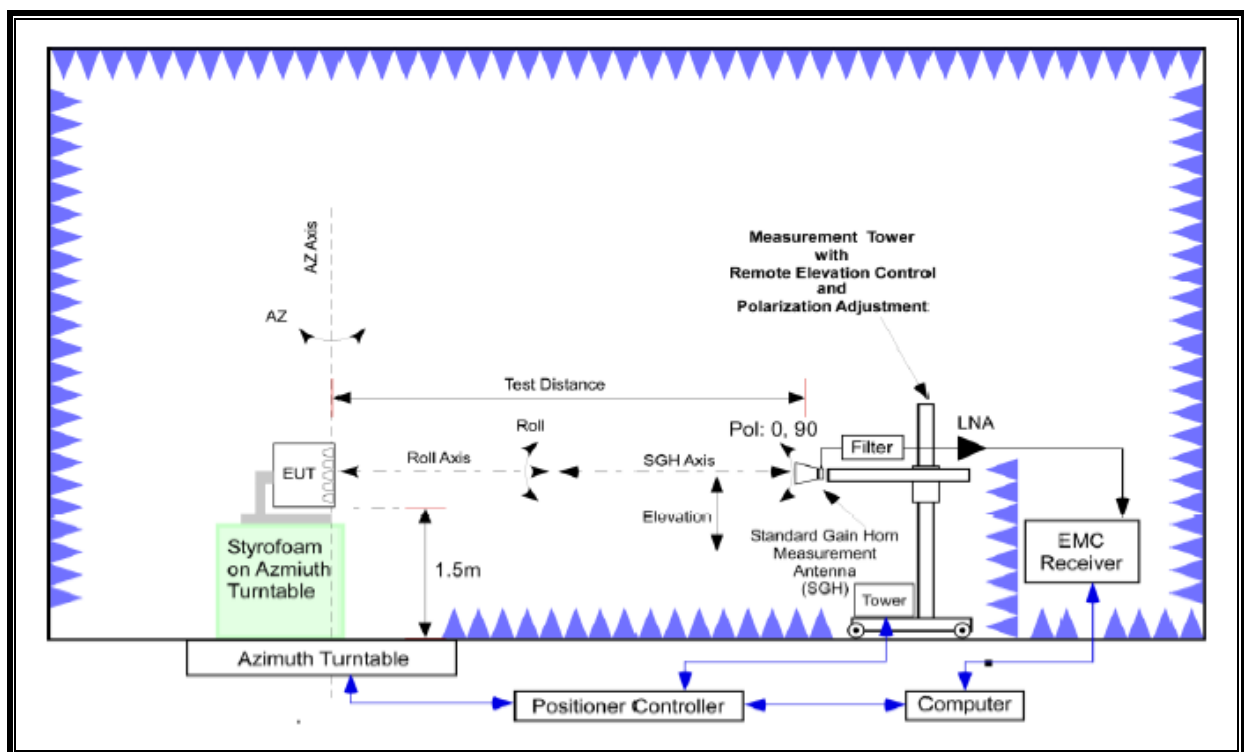
All testing was performed using FTM (Factory Test Mode) software at continuous Tx operation. When implemented out in the field, the EUT will operate with a maximum uplink configuration (i.e., a maximum uplink duty cycle of 100%). The FTM software was also used for the EUT operation in the EN-DC and NR-DC mode.

### SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)

Radiated spurious emission measurements from 30MHz - 18GHz were performed in a semi anechoic chamber (SAC) conforming to the normalized site attenuation requirements specified in ANSI C63.4 for below 1 GHz and the site validation criteria called out in CISPR 16-1-4:2019 over the frequency range 1GHz to 18 GHz.

Radiated power (EIRP) measurements of the fundamental signal and radiated spurious emissions measurements above 18 GHz were performed in a full anechoic chamber (FAC). In accordance with ANSI C63.26 and KDB publication 842590 the site meets the sVSWR validation requirements called out in CISPR 16-1-4:2019 over the frequency range 1GHz to 18 GHz. As required by ANSI C63.26 reflection contributions are reduced to the extent possible to allow for measurements to be made up to 200GHz in accordance with KDB publication 842590 V01R02.

A positioner was used to manipulate the EUT through several positions in space by rotating about the roll axis as shown in the figure below. The positioner was mounted on top of a turntable bringing the total EUT height to 1.5m.



# **FAR-FIELD DISTANCE AND MEASUREMENT DISTANCE**

The equipment under test was transmitting while connected to its integral antenna and is placed on a turntable.

The measurement antenna is in the far field of the EUT per formula  $2D^2/\lambda$  where D is the larger between the dimension of the measurement antenna and the transmitting antenna of the EUT. In this case, "D" is the largest dimension of the measurement antenna. The EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer.

For fundamental and out-of-band emissions the largest far-field distance of either the EUT antenna or measurement antenna shall be used. For spurious emissions the far-field distance is based only on the measurement antenna.

| Frequency Range(GHz) | Wavelength(m) | Far Field Distance(m) | Measurement Distance(m)             |
|----------------------|---------------|-----------------------|-------------------------------------|
| 18-40                | 0.008         | 0.54                  | 1.00<br>(EIRP and Band Edge = 3.00) |
| 40-50                | 0.006         | 1.05                  | 1.50                                |
| 50-75                | 0.004         | 0.69                  | 1.00                                |
| 75-110               | 0.003         | 0.46                  | 1.00                                |
| 110-175              | 0.002         | 0.34                  | 1.00                                |
| 175-200              | 0.002         | 0.16                  | 1.00                                |

Radiated power levels are investigated while the receive antenna was rotated through all angles to determine the worst-case polarization/positioning. It was determined that H=0 degree and V=90 degree is the worst-case positions when the EUT was transmitting horizontally and vertically polarized beams, respectively.

The maximized power level is recorded using the spectrum analyzer "Channel Power" function with the integration bandwidth set to the emissions' occupied bandwidth. The EIRP is calculated from the raw power level measured with the spectrum analyzer using the formulas shown below.

**The field strength E is calculated  $E \text{ (dB}\mu\text{V/m)} = \text{Spectrum Analyzer Channel Power Level (dBm)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107$ .**

**$\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$** ; where D is the measurement distance (in the far field region) in meter.

## 6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

| Test Equipment List        |                       |                            |            |            |
|----------------------------|-----------------------|----------------------------|------------|------------|
| Description                | Manufacturer          | Model                      | S/N        | Cal Due    |
| Antenna, Bilog, 30MHz-1GHz | SCHWARZBECK           | VULB 9163                  | 749        | 2026-08-12 |
| Antenna, Horn, 18 GHz      | ETS                   | 3117                       | 00168724   | 2026-07-17 |
| Antenna, Horn, 40 GHz      | ETS                   | 3116C                      | 00227907   | 2026-12-24 |
| Preamplifier, 1000 MHz     | Sonoma                | 310N                       | 351741     | 2026-07-21 |
| Preamplifier, 18 GHz       | B&Z Technologies, LLC | BZR-01001800-231040-181515 | 23576      | 2026-07-22 |
| EMI Test Receive, 40 GHz   | R&S                   | ESU40                      | 100457     | 2026-07-21 |
| High Pass Filter 3GHz      | Micro-Tronics         | HPM17543                   | 015        | 2026-07-21 |
| Signal Analyzer, 50 GHz    | KEYSIGHT              | N9040B                     | MY60080268 | 2025-12-24 |
| SA Extension Module        | VDI                   | N9029AV15                  | SAX693     | 2026-01-17 |
| SA Extension Module        | VDI                   | N9029AV10                  | SAX597     | 2026-01-17 |
| SA Extension Module        | VDI                   | N9029AV06                  | SAX789     | 2026-01-17 |
| SA Extension Module        | VDI                   | N9029AV04                  | SAX791     | 2026-01-17 |
| Antenna                    | CMI, Inc.             | HO22R                      | UL22002    | 2027-01-20 |
|                            |                       |                            |            | 2027-01-20 |
| Antenna                    | CMI, Inc.             | HO15R                      | UL15002    | 2027-01-20 |
|                            |                       |                            |            | 2027-01-20 |
| Antenna                    | CMI, Inc.             | HO10R                      | UL10002    | 2027-01-20 |
|                            |                       |                            |            | 2027-01-20 |
| Antenna                    | CMI, Inc.             | HO06R                      | UL06002    | 2027-01-20 |
|                            |                       |                            |            | 2027-01-20 |
| Antenna                    | CMI, Inc.             | HO04R                      | UL04002    | 2027-01-20 |
|                            |                       |                            |            | 2027-01-20 |
| Temperature Chamber        | ESPEC                 | SH-642                     | 93001109   | 2026-07-21 |
| UL Software                |                       |                            |            |            |
| Description                | Manufacturer          | Model                      | Version    |            |
| Radiated software          | UL                    | UL EMC                     | Ver 9.5    |            |

## 7. SUMMARY TABLE

| FCC Part Section | Test Description                       | Test Limit                                                                                                                          | Test Condition | Test Result |
|------------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|
| 2.1049           | Occupied Bandwidth                     | N/A                                                                                                                                 | Radiated       | Complies    |
| 2.1046, 30.202   | Equivalent Isotropic Radiated Power    | 43 dBm                                                                                                                              |                | Complies    |
| 2.1051, 30.203   | Out-of-Band Emissions at the Band Edge | -13 dBm/MHz for all out-of-band emissions, -5 dBm/MHz from the band edge up to 10% of the channel BW                                |                | Complies    |
| 2.1051, 30.203   | Spurious Emission                      | -13 dBm/MHz for all out-of-band emissions<br>-29dBW/200MHz for 23.6-24GHz<br>-35dBW/200MHz for 23.6-24GHz (After September 1, 2027) |                | Complies    |
| 2.1055           | Frequency Stability                    | Fundamental emissions stay within authorized frequency block                                                                        |                | Complies    |

## 8. APPLICABLE LIMITS AND TEST RESULTS

### 8.1. OCCUPIED BANDWIDTH

#### RULE PART(S)

FCC: §2.1049

#### LIMITS

For reporting purposes only

#### TEST PROCEDURE

Automatic bandwidth measurement function of the signal analyzer was used to measure 99% occupied.

- a) RBW = 1 – 5% of OBW
- b) VBW  $\geq$  3 x RBW
- c) Detector = Peak
- d) Trace mode = max hold
- e) Sweep = auto couple
- f) The trace was allowed to stabilize

(KDB 842590 D01 Upper Microwave Flexible Use Service v01r02 Section 4.3)  
(ANSI C63.26-2015 Section 5.4.3)

#### Note

5G NR: All Waveforms (CP-OFDM vs DFT-s OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

#### RESULTS

See the following pages.

### 8.1.1. OCCUPIED BANDWIDTH RESULTS

#### OBW Result

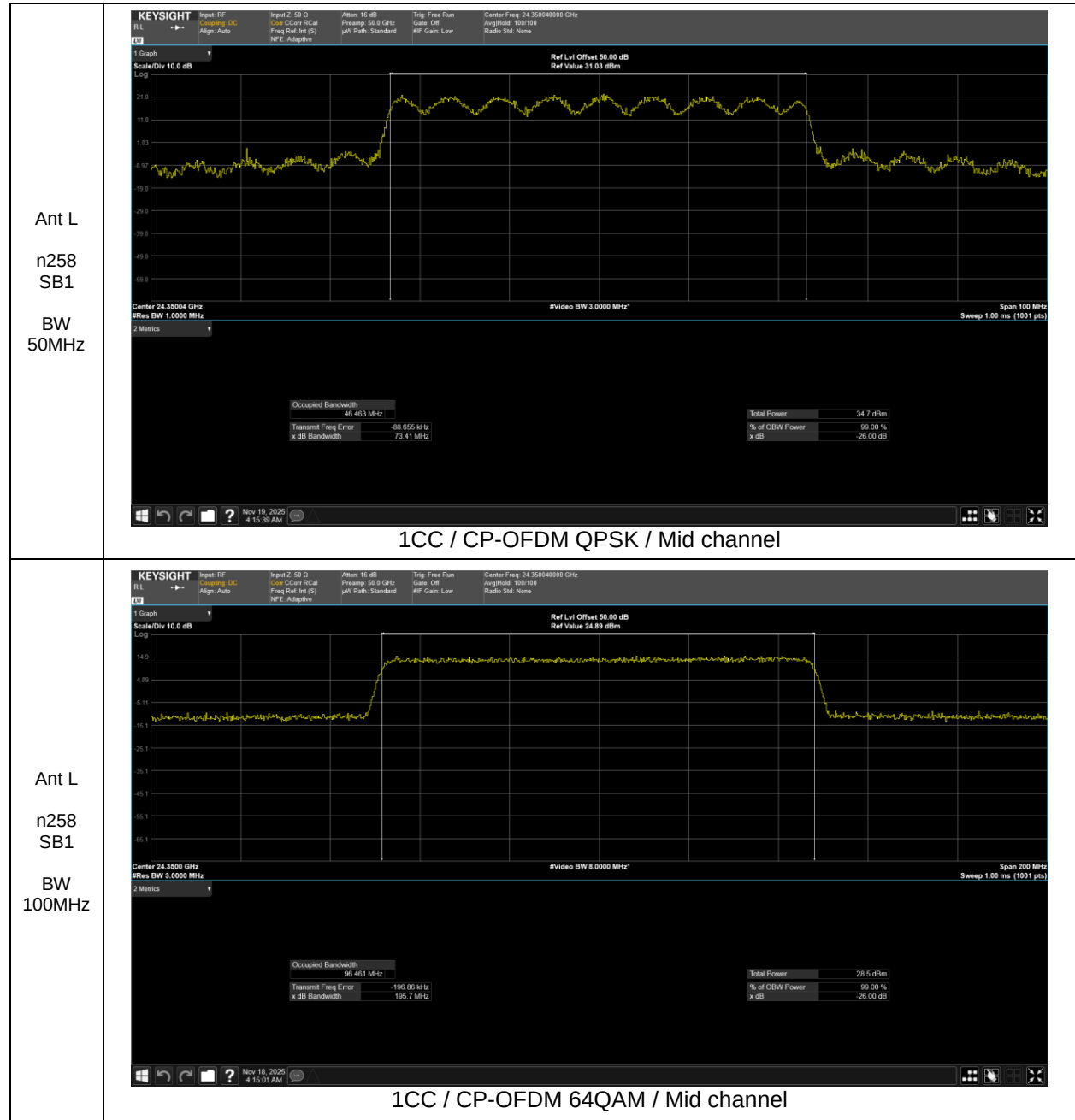
| Antenna   | Band     | BandWidth [MHz] | CCs Active | OFDM  | Modulation | OBW [MHz]     |
|-----------|----------|-----------------|------------|-------|------------|---------------|
| Antenna L | n258 SB1 | 50              | 1CC        | DFT-s | pi/2-BPSK  | 46.04         |
|           |          |                 |            | CP    | QPSK       | <b>46.46</b>  |
|           |          |                 |            | CP    | 16QAM      | 46.17         |
|           |          |                 |            | CP    | 64QAM      | 46.42         |
|           |          | 100             | 1CC        | DFT-s | pi/2-BPSK  | 93.28         |
|           |          |                 |            | CP    | QPSK       | 96.39         |
|           |          |                 |            | CP    | 16QAM      | 96.33         |
|           |          |                 |            | CP    | 64QAM      | <b>96.46</b>  |
|           |          |                 | 2CC        | DFT-s | pi/2-BPSK  | 192.85        |
|           |          |                 |            | CP    | QPSK       | 197.13        |
|           |          |                 |            | CP    | 16QAM      | 197.18        |
|           |          |                 |            | CP    | 64QAM      | <b>197.32</b> |

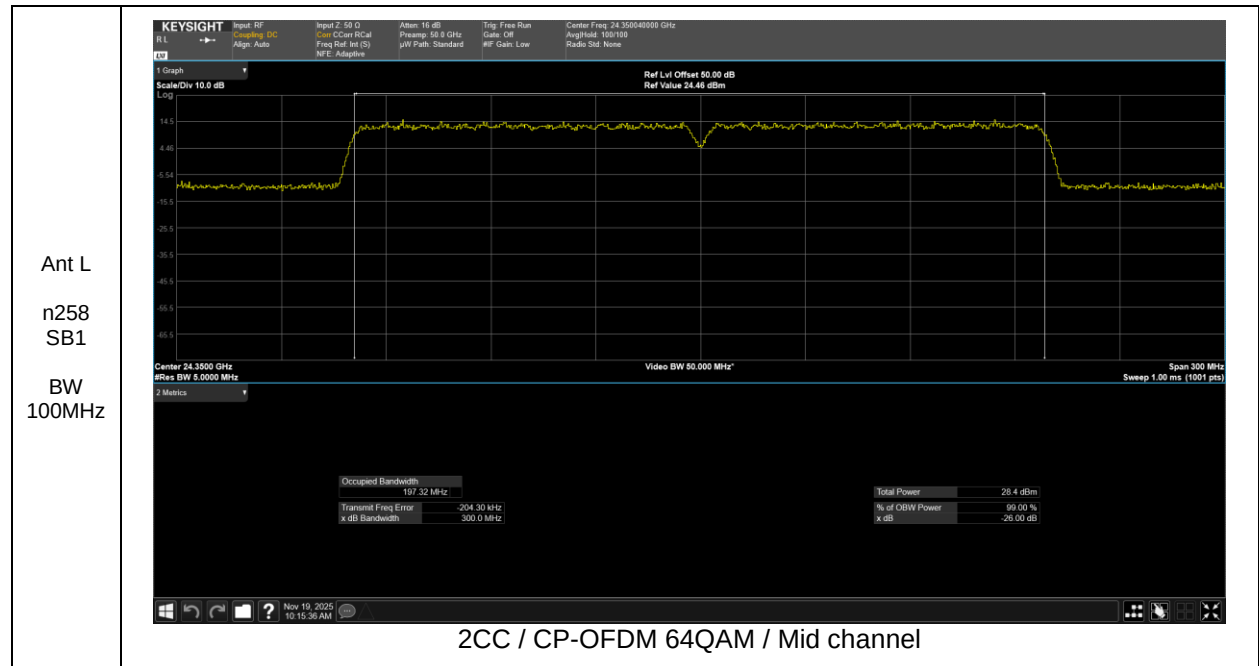
| Antenna   | Band     | BandWidth [MHz] | CCs Active | OFDM  | Modulation | OBW [MHz]     |
|-----------|----------|-----------------|------------|-------|------------|---------------|
| Antenna L | n258 SB2 | 50              | 1CC        | DFT-s | pi/2-BPSK  | 46.14         |
|           |          |                 |            | CP    | QPSK       | 46.14         |
|           |          |                 |            | CP    | 16QAM      | 46.17         |
|           |          |                 |            | CP    | 64QAM      | <b>46.21</b>  |
|           |          | 100             | 1CC        | DFT-s | pi/2-BPSK  | 93.20         |
|           |          |                 |            | CP    | QPSK       | <b>96.47</b>  |
|           |          |                 |            | CP    | 16QAM      | 96.38         |
|           |          |                 |            | CP    | 64QAM      | 96.42         |
|           |          |                 | 2CC        | DFT-s | pi/2-BPSK  | 192.77        |
|           |          |                 |            | CP    | QPSK       | 195.04        |
|           |          |                 |            | CP    | 16QAM      | <b>195.69</b> |
|           |          |                 |            | CP    | 64QAM      | 195.33        |
|           |          |                 | 3CC        | DFT-s | pi/2-BPSK  | 291.91        |
|           |          |                 |            | CP    | QPSK       | 294.90        |
|           |          |                 |            | CP    | 16QAM      | 294.16        |
|           |          |                 |            | CP    | 64QAM      | <b>295.48</b> |
|           |          |                 | 4CC        | DFT-s | pi/2-BPSK  | 390.85        |
|           |          |                 |            | CP    | QPSK       | 393.43        |
|           |          |                 |            | CP    | 16QAM      | 393.60        |
|           |          |                 |            | CP    | 64QAM      | <b>393.83</b> |

| Antenna   | Band | BandWidth [MHz] | CCs Active | OFDM  | Modulation | OBW [MHz]     |
|-----------|------|-----------------|------------|-------|------------|---------------|
| Antenna L | n261 | 50              | 1CC        | DFT-s | pi/2-BPSK  | 46.10         |
|           |      |                 |            | CP    | QPSK       | 46.21         |
|           |      |                 |            | CP    | 16QAM      | <b>46.22</b>  |
|           |      |                 |            | CP    | 64QAM      | 46.09         |
|           |      | 100             | 1CC        | DFT-s | pi/2-BPSK  | 93.20         |
|           |      |                 |            | CP    | QPSK       | 96.08         |
|           |      |                 |            | CP    | 16QAM      | <b>96.37</b>  |
|           |      |                 |            | CP    | 64QAM      | 96.20         |
|           |      |                 | 2CC        | DFT-s | pi/2-BPSK  | 193.05        |
|           |      |                 |            | CP    | QPSK       | 194.70        |
|           |      |                 |            | CP    | 16QAM      | 194.97        |
|           |      |                 |            | CP    | 64QAM      | <b>195.03</b> |
|           |      |                 | 3CC        | DFT-s | pi/2-BPSK  | 291.66        |
|           |      |                 |            | CP    | QPSK       | 293.61        |
|           |      |                 |            | CP    | 16QAM      | 293.67        |
|           |      |                 |            | CP    | 64QAM      | <b>293.87</b> |
|           |      |                 | 4CC        | DFT-s | pi/2-BPSK  | 390.07        |
|           |      |                 |            | CP    | QPSK       | 392.23        |
|           |      |                 |            | CP    | 16QAM      | 391.84        |
|           |      |                 |            | CP    | 64QAM      | <b>392.90</b> |

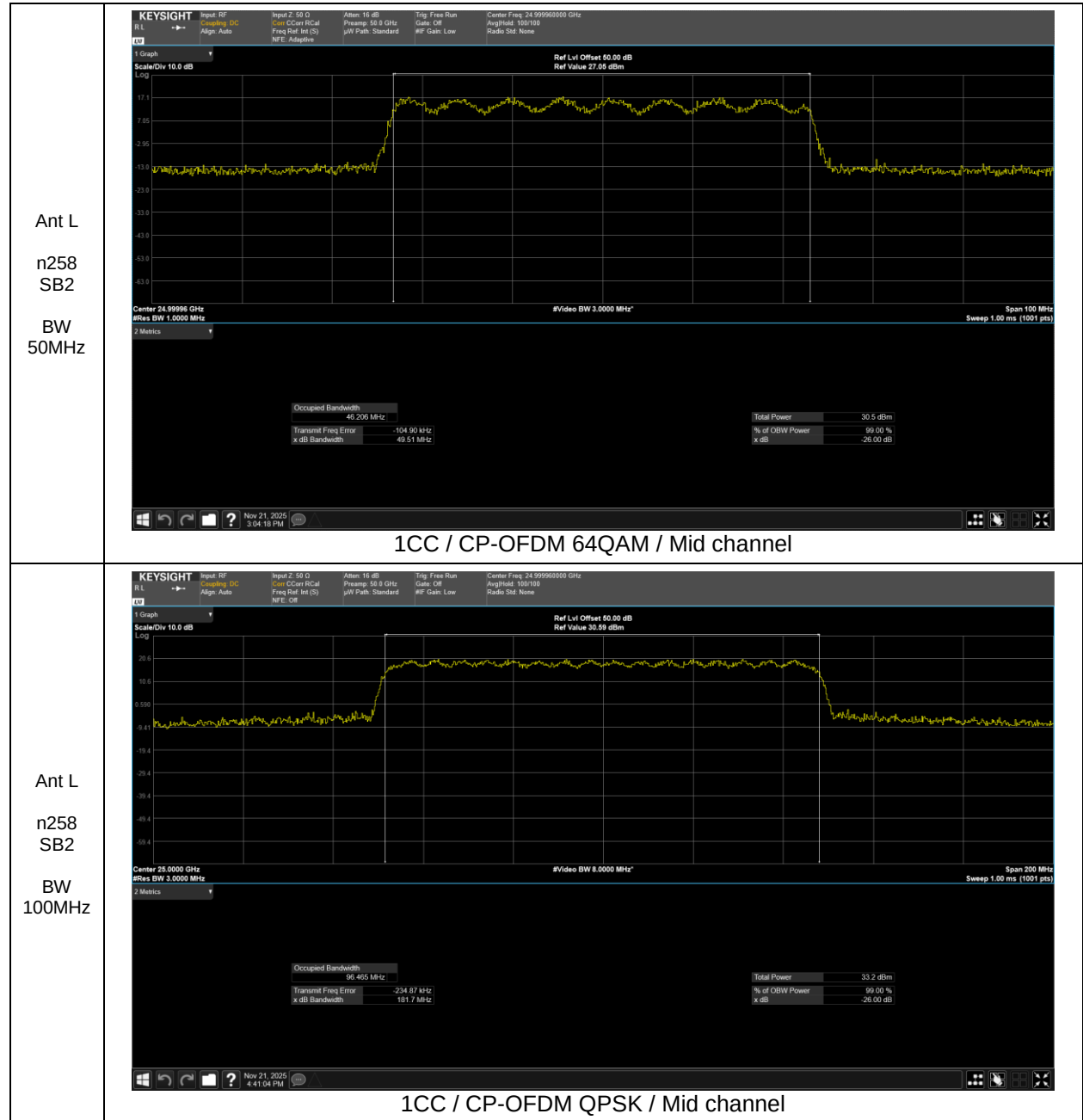
| Antenna   | Band | BandWidth [MHz] | CCs Active | OFDM  | Modulation | OBW [MHz]     |
|-----------|------|-----------------|------------|-------|------------|---------------|
| Antenna L | n260 | 50              | 1CC        | DFT-s | pi/2-BPSK  | 46.30         |
|           |      |                 |            | CP    | QPSK       | 46.85         |
|           |      |                 |            | CP    | 16QAM      | 46.88         |
|           |      |                 |            | CP    | 64QAM      | <b>47.52</b>  |
|           |      | 100             | 1CC        | DFT-s | pi/2-BPSK  | 93.59         |
|           |      |                 |            | CP    | QPSK       | 98.10         |
|           |      |                 |            | CP    | 16QAM      | 97.66         |
|           |      |                 |            | CP    | 64QAM      | <b>98.95</b>  |
|           |      |                 | 2CC        | DFT-s | pi/2-BPSK  | 194.58        |
|           |      |                 |            | CP    | QPSK       | <b>201.99</b> |
|           |      |                 |            | CP    | 16QAM      | 201.34        |
|           |      |                 |            | CP    | 64QAM      | 198.62        |
|           |      |                 | 3CC        | DFT-s | pi/2-BPSK  | 297.47        |
|           |      |                 |            | CP    | QPSK       | <b>313.48</b> |
|           |      |                 |            | CP    | 16QAM      | 308.15        |
|           |      |                 |            | CP    | 64QAM      | 294.22        |
|           |      |                 | 4CC        | DFT-s | pi/2-BPSK  | 397.94        |
|           |      |                 |            | CP    | QPSK       | <b>413.53</b> |
|           |      |                 |            | CP    | 16QAM      | 408.65        |
|           |      |                 |            | CP    | 64QAM      | 393.97        |

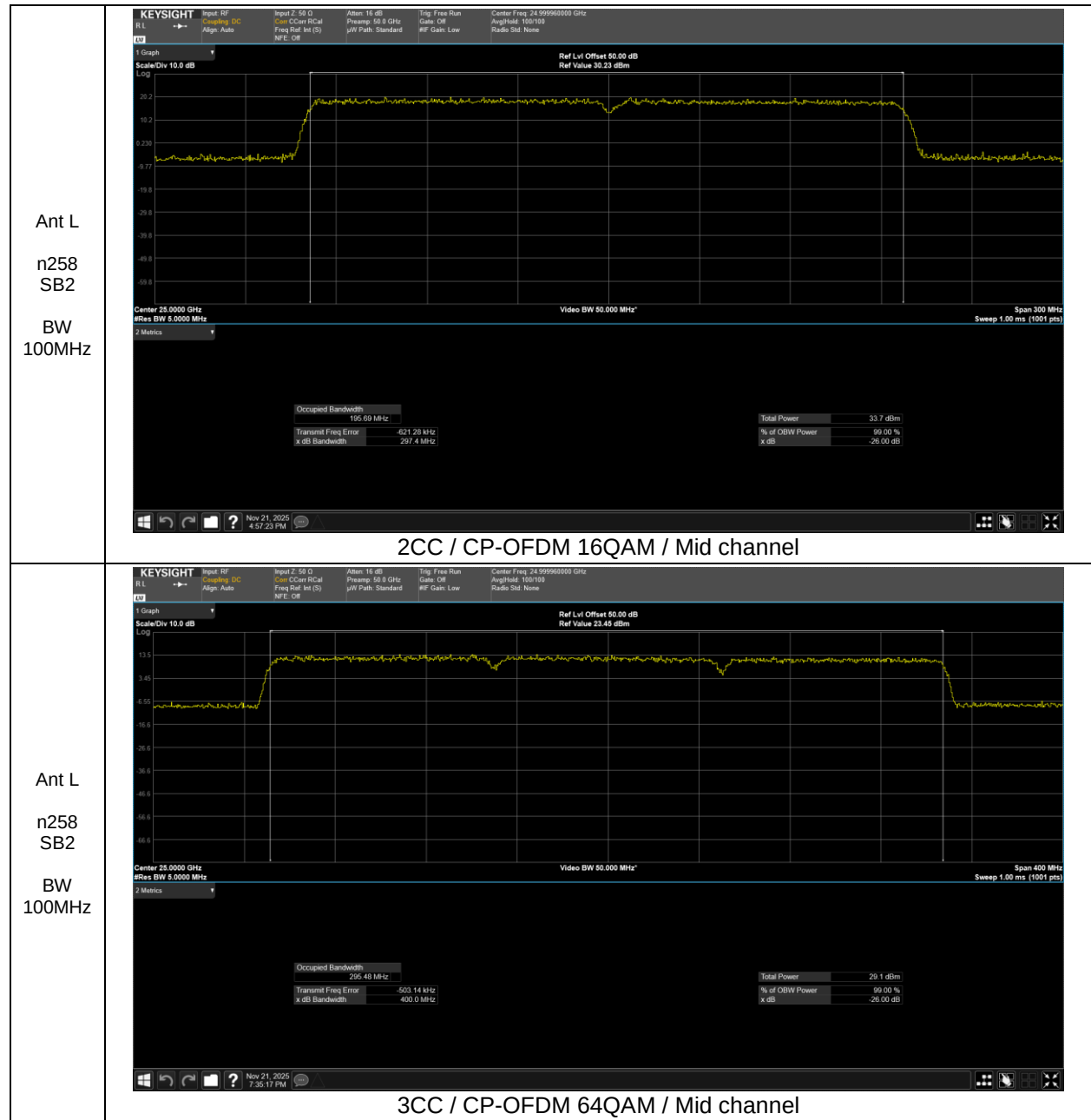
**Antnena 1 / Ant L / Band n258 SB1**





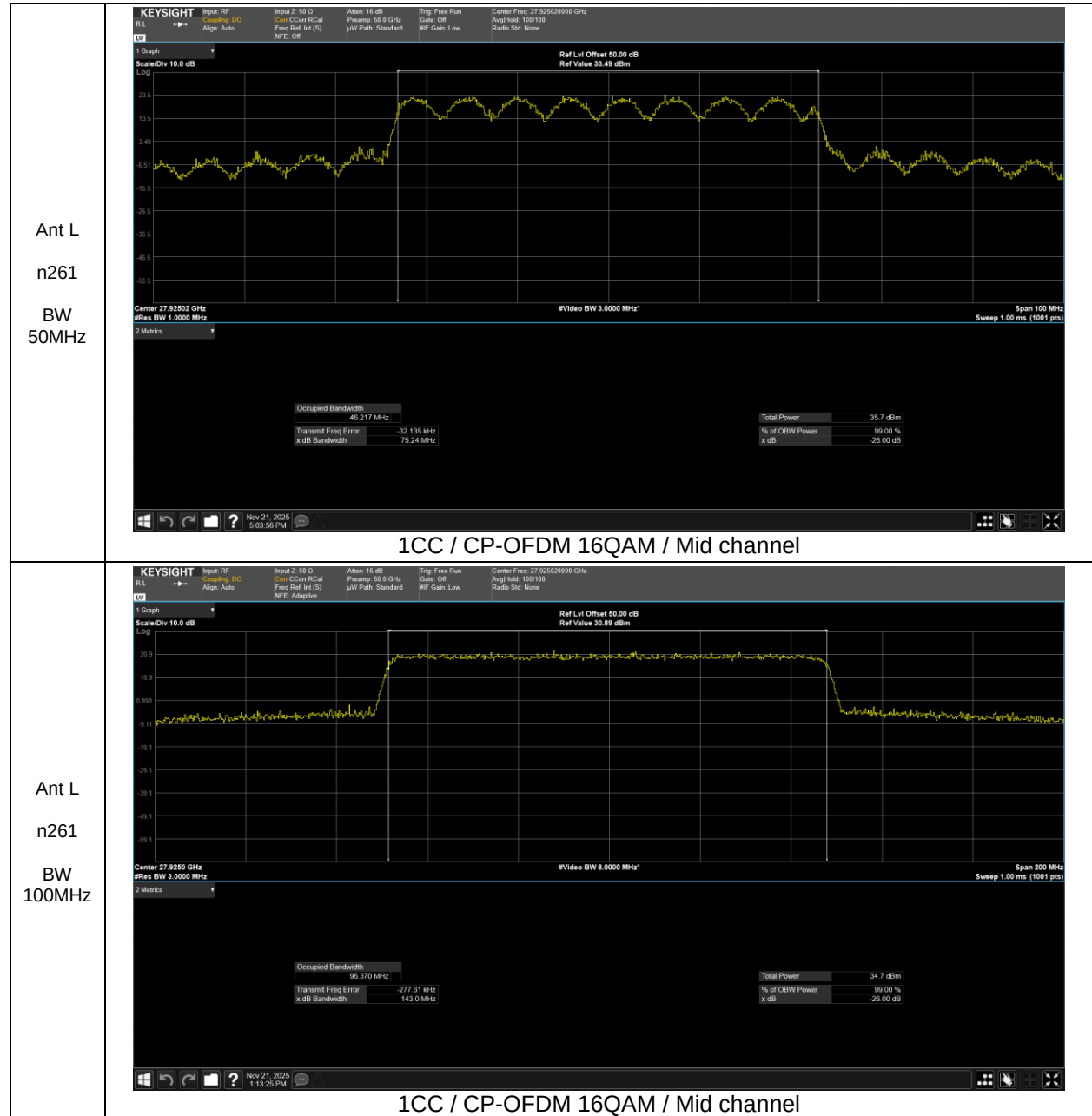
**Antenna 1 / Ant L / Band n258 SB2**

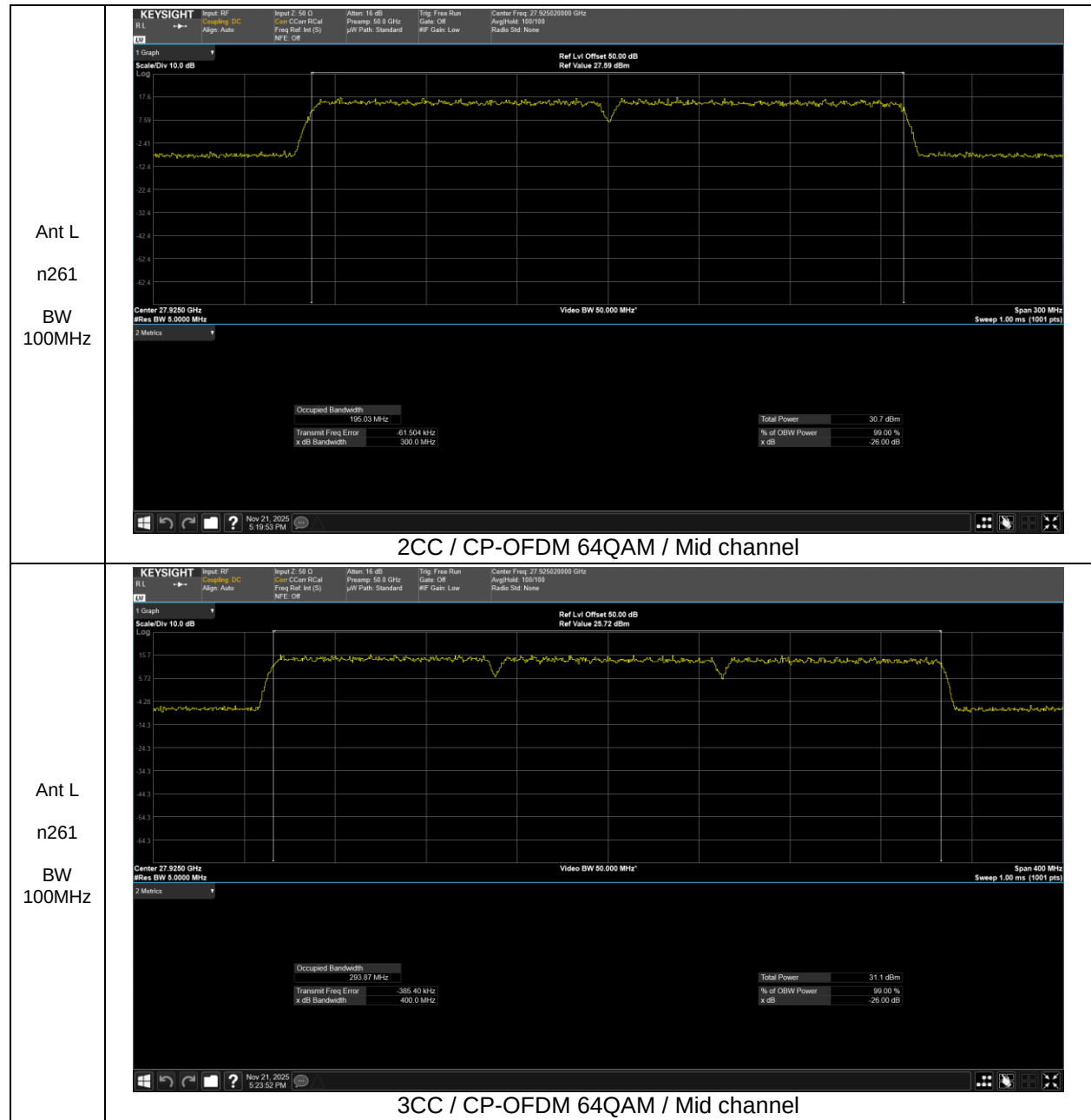






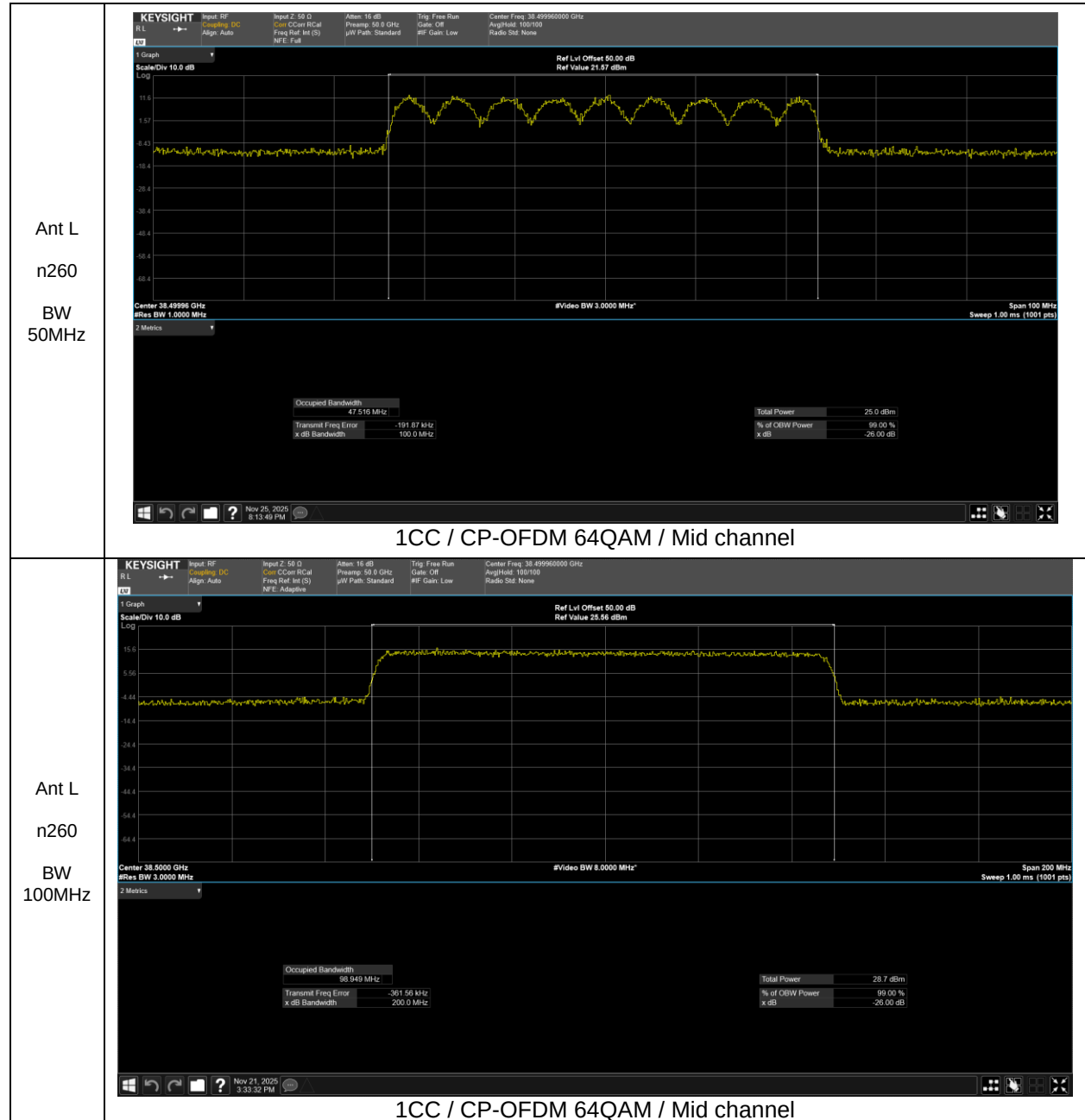
**Antnena 1 / Ant L / Band n261**

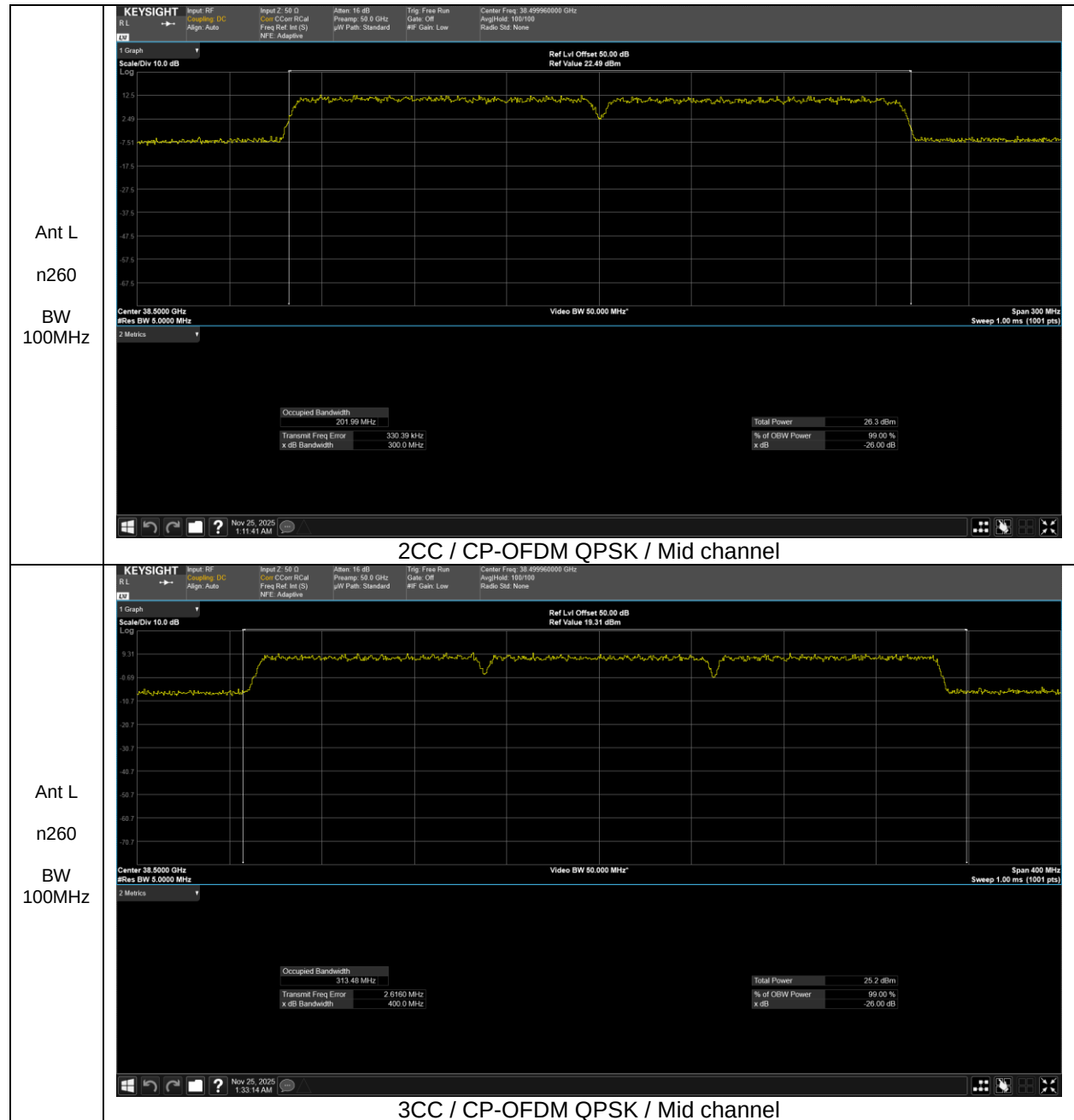


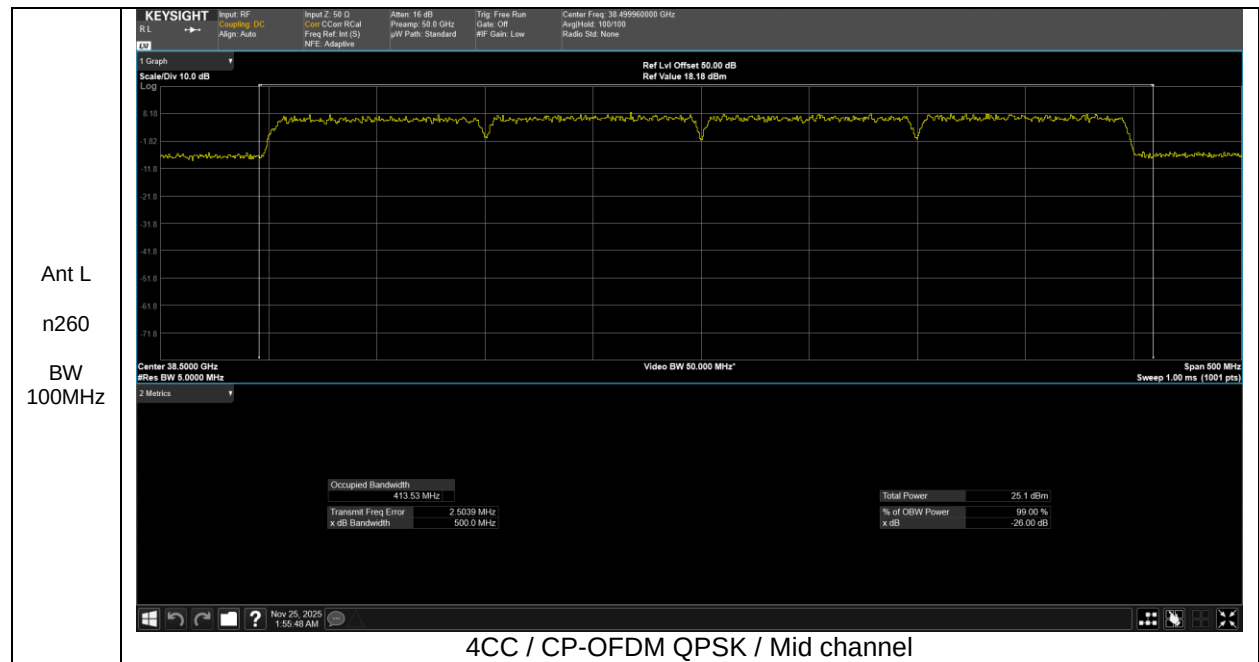




**Antenna 1 / Ant L / Band n260**







## 8.2. EQUIVALENT ISOTROPIC RADIATED POWER

### RULE PART(S)

FCC: §2.1046, §30.202

### LIMITS

30.202 (b) - For mobile stations, the average power of the sum of all antenna elements is limited to a maximum EIRP of +43 dBm.

### TEST PROCEDURE

Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.

- a) RBW = 1 – 5% of the OBW, not to exceed 1MHz
- b) VBW  $\geq 3 \times$  RBW
- c) Span = 2x to 3x the OBW
- d) number of measurement points in sweep  $> 2 \times$  span / RBW
- e) Sweep time = auto-couple
- f) Detector = RMS
- g) Trace mode = average over 100 sweeps

(KDB 842590 D01 Upper Microwave Flexible Use Service v01r02 Section 4.2)  
(ANSI C63.26-2015 Section 5.2.4.4.1)

### Note

EIRP measurements were taken at 3m test distance.  
The EUT's transmission signal was a 100% continuous signal in FTM mode.

Elements within the same antenna array are correlated to produce beamforming array gain. During testing, only one antenna array was active.

The average EIRP reported below is calculated per section 5.2.7 of ANSI C63.26-2015 which states:  
 $EIRP \text{ (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$ ; where D is the measurement distance (in the far field region) in meter.

The field strength E is calculated  $E \text{ (dB}\mu\text{V/m)} = \text{Spectrum Analyzer Channel Power Level (dBm)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107$ .

Radiated power levels are investigated while the receive antenna was rotated through all angles to determine the worst case polarization/positioning.

In order properly display of signal level on the plots, the pre-loaded correction factors were intentional lowered by 50 dB and an offset factor of 50 dB was applied on spectrum analyzer to compensate the true correction factors across frequency range of measurement.

For L patch antenna was pi/2-BPSK, QPSK, 16QAM and 64QAM modulations were all investigated in SISO, SISO-Dual and MIMO configurations. Full data is provided for those combinations. Single RB (highest power) and full RB allocations were measured, but worst RB allocation was reported.

5G NR: All Waveforms (CP-OFDM vs DFT-s OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

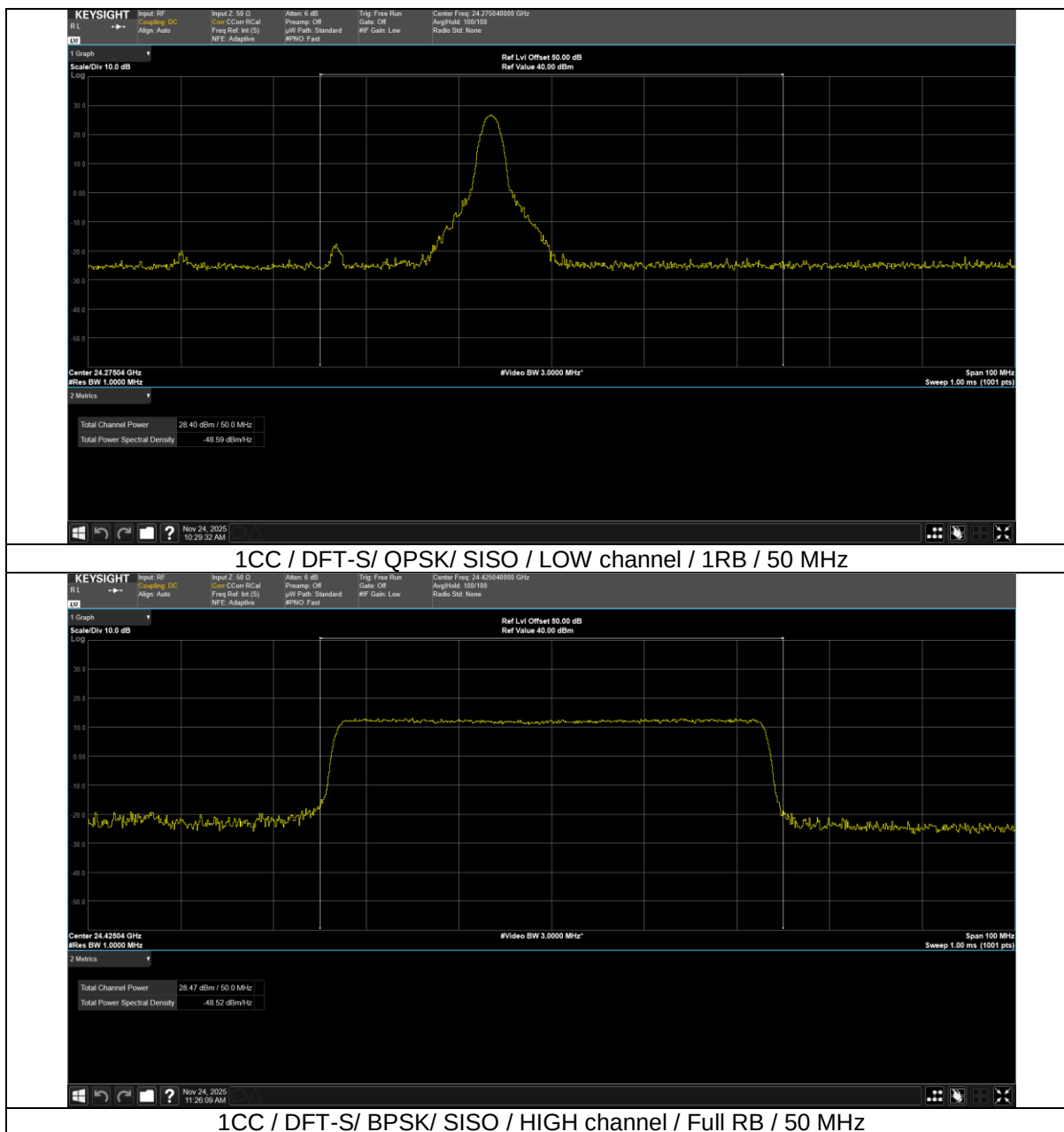
## RESULTS

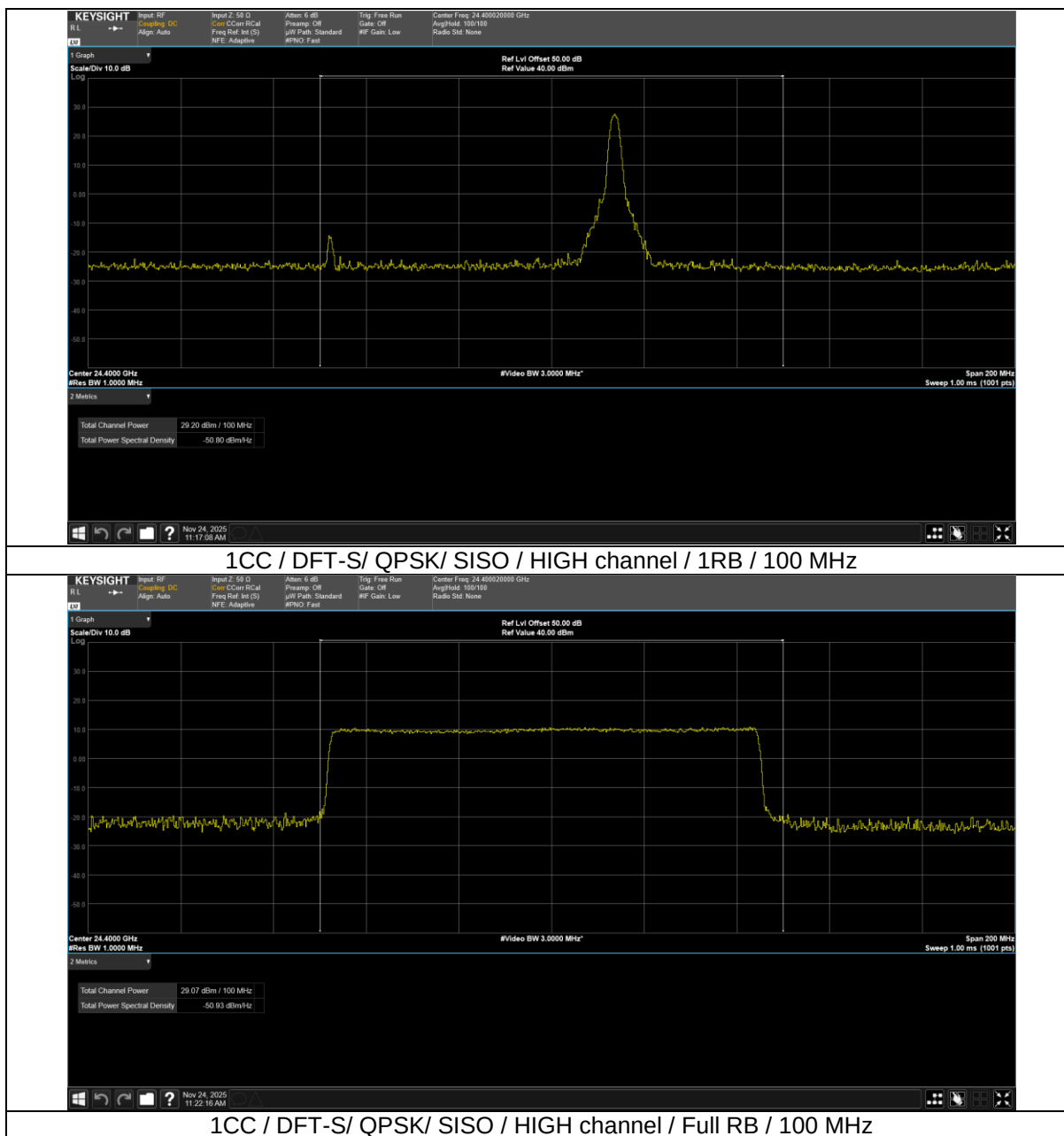
### 8.2.1. EIRP Results

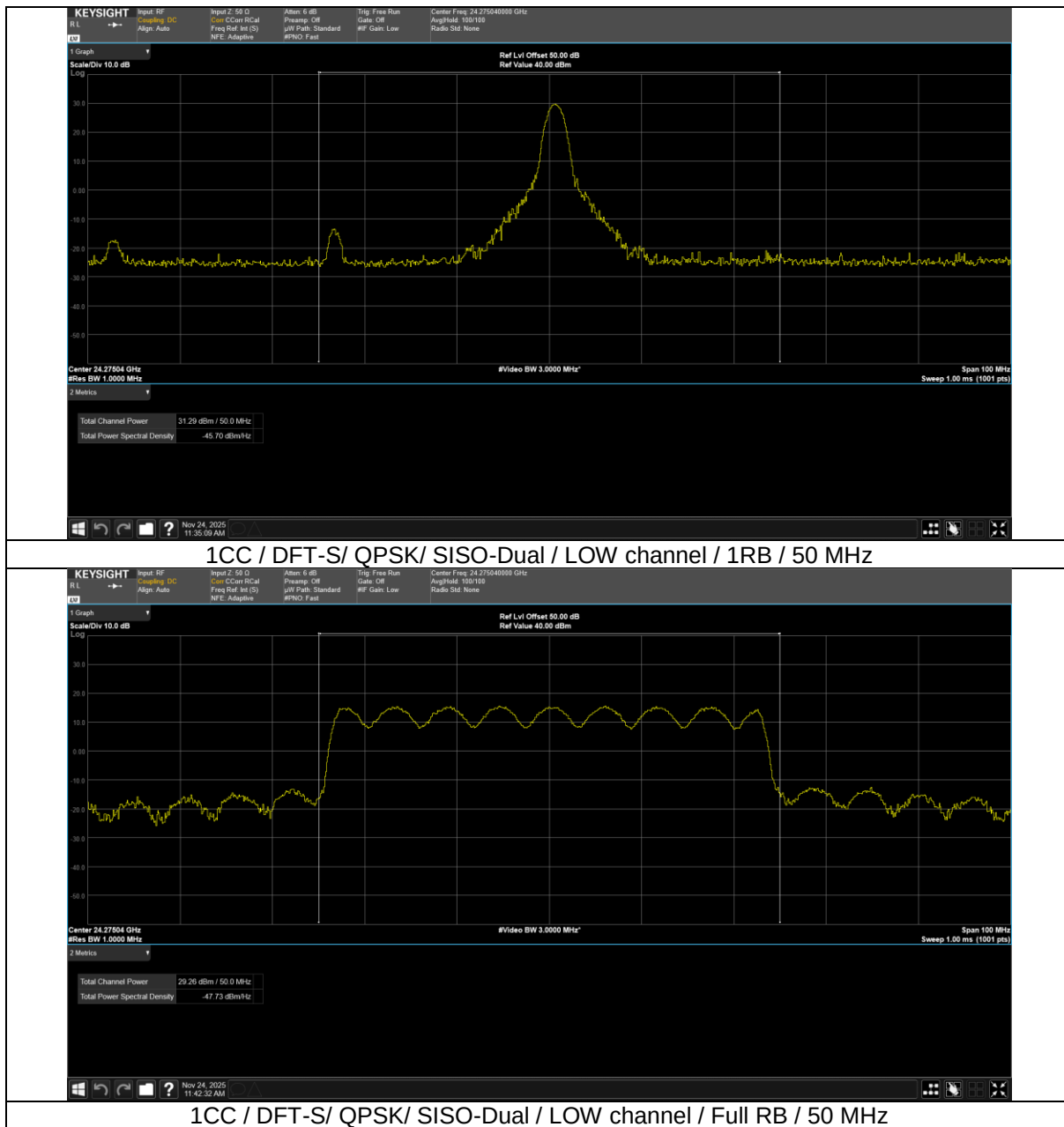
#### Antenna 1 / Ant L / Band n258 SB1

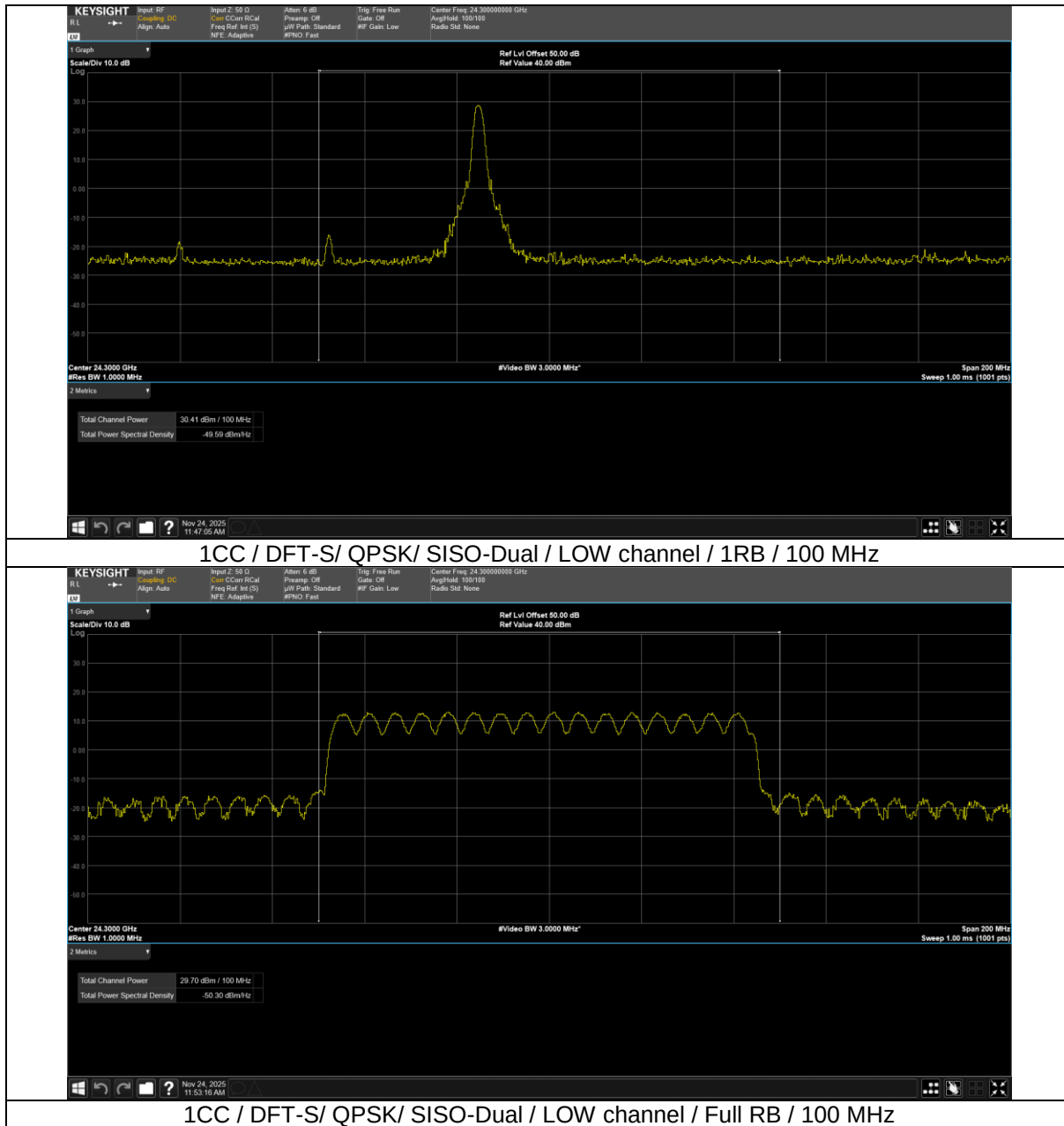
| Test Case | OFDM  | NR Band | Antenna | BW(MHz) | CCs | Mod   | Tx Type | Freq(MHz) | Beam ID | Beam Pol | Ant Pol | RB   | Result (dBm) |
|-----------|-------|---------|---------|---------|-----|-------|---------|-----------|---------|----------|---------|------|--------------|
| EIRP      | DFT-s | n258-R1 | ANT L   | 50      | 1CC | QPSK  | SISO    | 24275.04  | 272     | H        | H       | 1_11 | 28.40        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 50      | 1CC | QPSK  | SISO    | 24350.04  | 272     | H        | H       | 1_21 | 27.51        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 50      | 1CC | QPSK  | SISO    | 24425.04  | 272     | H        | H       | 1_19 | 28.28        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 50      | 1CC | BPSK  | SISO    | 24425.04  | 272     | H        | H       | 32_0 | 28.47        |
| EIRP      | DFT-S | n258-R1 | ANT L   | 50      | 1CC | 16QAM | SISO    | 24425.04  | 272     | H        | H       | 32_0 | 28.01        |
| EIRP      | DFT-S | n258-R1 | ANT L   | 50      | 1CC | 64QAM | SISO    | 24425.04  | 272     | H        | H       | 32_0 | 24.91        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 50      | 1CC | QPSK  | SISO    | 24275.04  | 272     | H        | H       | 32_0 | 28.34        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 50      | 1CC | QPSK  | SISO    | 24350.04  | 272     | H        | H       | 32_0 | 27.51        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 50      | 1CC | QPSK  | SISO    | 24425.04  | 272     | H        | H       | 32_0 | 28.46        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 100     | 1CC | QPSK  | SISO    | 24300     | 272     | H        | H       | 1_22 | 29.15        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 100     | 1CC | QPSK  | SISO    | 24350.04  | 272     | H        | H       | 1_33 | 28.21        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 100     | 1CC | QPSK  | SISO    | 24400.02  | 272     | H        | H       | 1_42 | 29.20        |
| EIRP      | DFT-S | n258-R1 | ANT L   | 100     | 1CC | BPSK  | SISO    | 24400.02  | 272     | H        | H       | 1_42 | 29.08        |
| EIRP      | DFT-S | n258-R1 | ANT L   | 100     | 1CC | 16QAM | SISO    | 24400.02  | 272     | H        | H       | 1_42 | 29.13        |
| EIRP      | DFT-S | n258-R1 | ANT L   | 100     | 1CC | 64QAM | SISO    | 24400.02  | 272     | H        | H       | 1_42 | 26.09        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 100     | 1CC | QPSK  | SISO    | 24300     | 272     | H        | H       | 64_0 | 28.90        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 100     | 1CC | QPSK  | SISO    | 24350.04  | 272     | H        | H       | 64_0 | 28.19        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 100     | 1CC | QPSK  | SISO    | 24400.02  | 272     | H        | H       | 64_0 | 29.07        |

| Test Case | OFDM  | NR Band | Antenna | BW(MHz) | CCs | Mod   | Tx Type   | Freq(MHz) | Beam ID | Beam Pol | Ant Pol | RB   | Result (dBm) |
|-----------|-------|---------|---------|---------|-----|-------|-----------|-----------|---------|----------|---------|------|--------------|
| EIRP      | DFT-s | n258-R1 | ANT L   | 50      | 1CC | QPSK  | SISO-Dual | 24275.04  | 15+271  | H+V      | H+V     | 1_16 | 31.29        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 50      | 1CC | QPSK  | SISO-Dual | 24350.04  | 15+271  | H+V      | H+V     | 1_16 | 30.99        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 50      | 1CC | QPSK  | SISO-Dual | 24425.04  | 15+271  | H+V      | H+V     | 1_16 | 30.98        |
| EIRP      | DFT-S | n258-R1 | ANT L   | 50      | 1CC | BPSK  | SISO-Dual | 24275.04  | 15+271  | H+V      | H+V     | 1_16 | 31.03        |
| EIRP      | DFT-S | n258-R1 | ANT L   | 50      | 1CC | 16QAM | SISO-Dual | 24275.04  | 15+271  | H+V      | H+V     | 1_16 | 31.07        |
| EIRP      | DFT-S | n258-R1 | ANT L   | 50      | 1CC | 64QAM | SISO-Dual | 24275.04  | 15+271  | H+V      | H+V     | 1_16 | 28.07        |
| EIRP      | CP    | n258-R1 | ANT L   | 50      | 1CC | QPSK  | MIMO      | 24275.04  | 15+271  | H+V      | H+V     | 1_16 | 30.07        |
| EIRP      | CP    | n258-R1 | ANT L   | 50      | 1CC | 16QAM | MIMO      | 24275.04  | 15+271  | H+V      | H+V     | 1_16 | 29.05        |
| EIRP      | CP    | n258-R1 | ANT L   | 50      | 1CC | 64QAM | MIMO      | 24275.04  | 15+271  | H+V      | H+V     | 1_16 | 24.90        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 50      | 1CC | QPSK  | SISO-Dual | 24275.04  | 15+271  | H+V      | H+V     | 32_0 | 29.26        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 50      | 1CC | QPSK  | SISO-Dual | 24350.04  | 15+271  | H+V      | H+V     | 32_0 | 28.87        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 50      | 1CC | QPSK  | SISO-Dual | 24425.04  | 15+271  | H+V      | H+V     | 32_0 | 28.97        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 100     | 1CC | QPSK  | SISO-Dual | 24300     | 15+271  | H+V      | H+V     | 1_22 | 30.41        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 100     | 1CC | QPSK  | SISO-Dual | 24350.04  | 15+271  | H+V      | H+V     | 1_42 | 29.84        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 100     | 1CC | QPSK  | SISO-Dual | 24400.02  | 15+271  | H+V      | H+V     | 1_33 | 30.15        |
| EIRP      | DFT-S | n258-R1 | ANT L   | 100     | 1CC | BPSK  | SISO-Dual | 24300     | 15+271  | H+V      | H+V     | 1_22 | 29.96        |
| EIRP      | DFT-S | n258-R1 | ANT L   | 100     | 1CC | 16QAM | SISO-Dual | 24300     | 15+271  | H+V      | H+V     | 1_22 | 26.46        |
| EIRP      | DFT-S | n258-R1 | ANT L   | 100     | 1CC | 64QAM | SISO-Dual | 24300     | 15+271  | H+V      | H+V     | 1_22 | 27.51        |
| EIRP      | CP    | n258-R1 | ANT L   | 100     | 1CC | QPSK  | MIMO      | 24300     | 15+271  | H+V      | H+V     | 1_22 | 29.44        |
| EIRP      | CP    | n258-R1 | ANT L   | 100     | 1CC | 16QAM | MIMO      | 24300     | 15+271  | H+V      | H+V     | 1_22 | 24.40        |
| EIRP      | CP    | n258-R1 | ANT L   | 100     | 1CC | 64QAM | MIMO      | 24300     | 15+271  | H+V      | H+V     | 1_22 | 24.36        |
| EIRP      | DFT-S | n258-R1 | ANT L   | 100+100 | 2CC | QPSK  | SISO-Dual | 24349.98  | 15+271  | H+V      | H+V     | 1_22 | 22.09        |
| EIRP      | DFT-S | n258-R1 | ANT L   | 100+100 | 2CC | BPSK  | SISO-Dual | 24349.98  | 15+271  | H+V      | H+V     | 1_22 | 21.96        |
| EIRP      | DFT-S | n258-R1 | ANT L   | 100+100 | 2CC | 16QAM | SISO-Dual | 24349.98  | 15+271  | H+V      | H+V     | 1_22 | 22.08        |
| EIRP      | DFT-S | n258-R1 | ANT L   | 100+100 | 2CC | 64QAM | SISO-Dual | 24349.98  | 15+271  | H+V      | H+V     | 1_22 | 22.07        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 100     | 1CC | QPSK  | SISO-Dual | 24300     | 15+271  | H+V      | H+V     | 64_0 | 29.70        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 100     | 1CC | QPSK  | SISO-Dual | 24350.04  | 15+271  | H+V      | H+V     | 64_0 | 28.35        |
| EIRP      | DFT-s | n258-R1 | ANT L   | 100     | 1CC | QPSK  | SISO-Dual | 24400.02  | 15+271  | H+V      | H+V     | 64_0 | 28.20        |
| EIRP      | DFT-S | n258-R1 | ANT L   | 100+100 | 2CC | QPSK  | SISO-Dual | 24349.98  | 15+271  | H+V      | H+V     | 64_0 | 29.46        |
| EIRP      | DFT-S | n258-R1 | ANT L   | 100+100 | 2CC | BPSK  | SISO-Dual | 24349.98  | 15+271  | H+V      | H+V     | 64_0 | 29.48        |
| EIRP      | DFT-S | n258-R1 | ANT L   | 100+100 | 2CC | 16QAM | SISO-Dual | 24349.98  | 15+271  | H+V      | H+V     | 64_0 | 28.95        |
| EIRP      | DFT-S | n258-R1 | ANT L   | 100+100 | 2CC | 64QAM | SISO-Dual | 24349.98  | 15+271  | H+V      | H+V     | 64_0 | 25.41        |





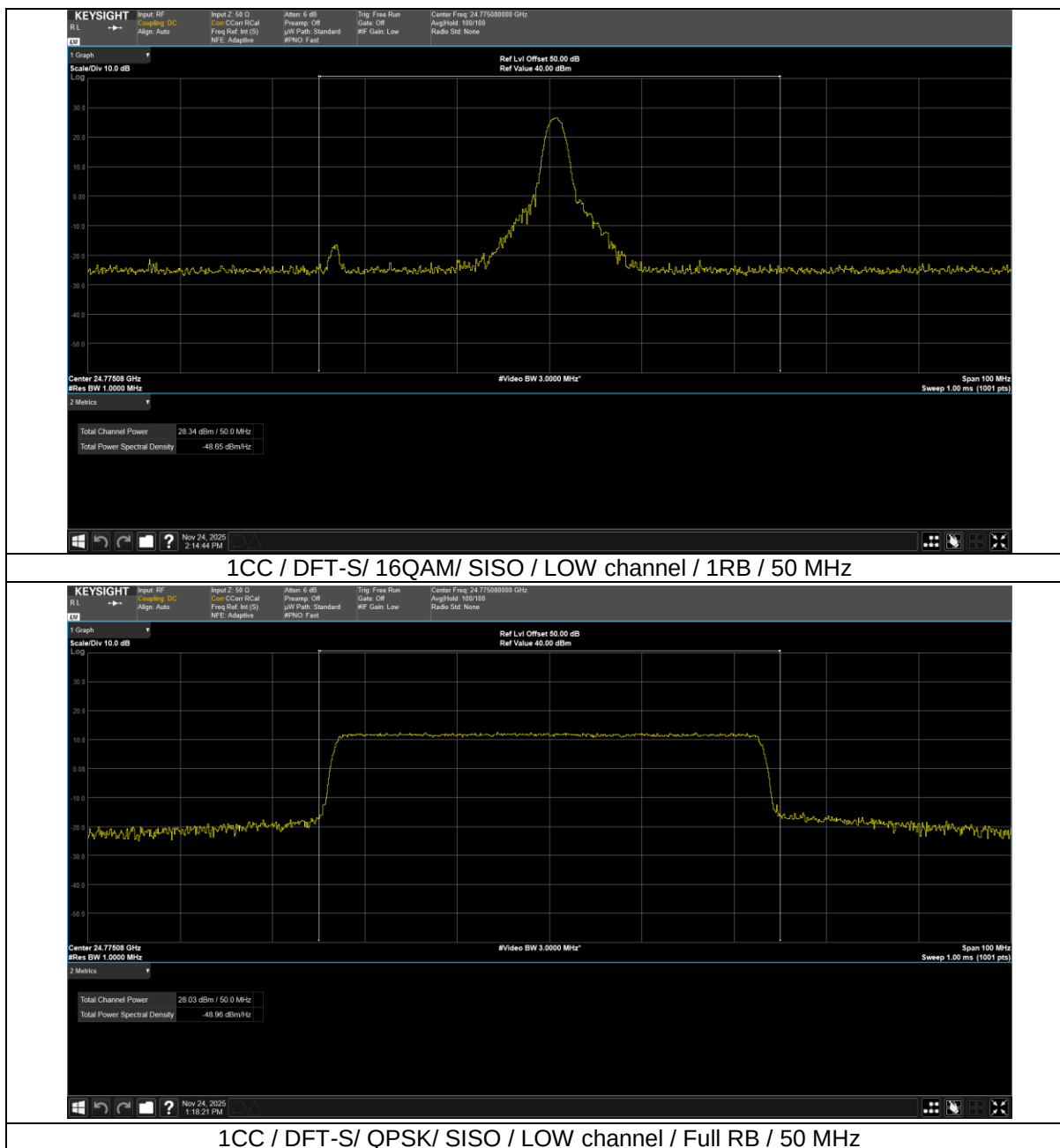


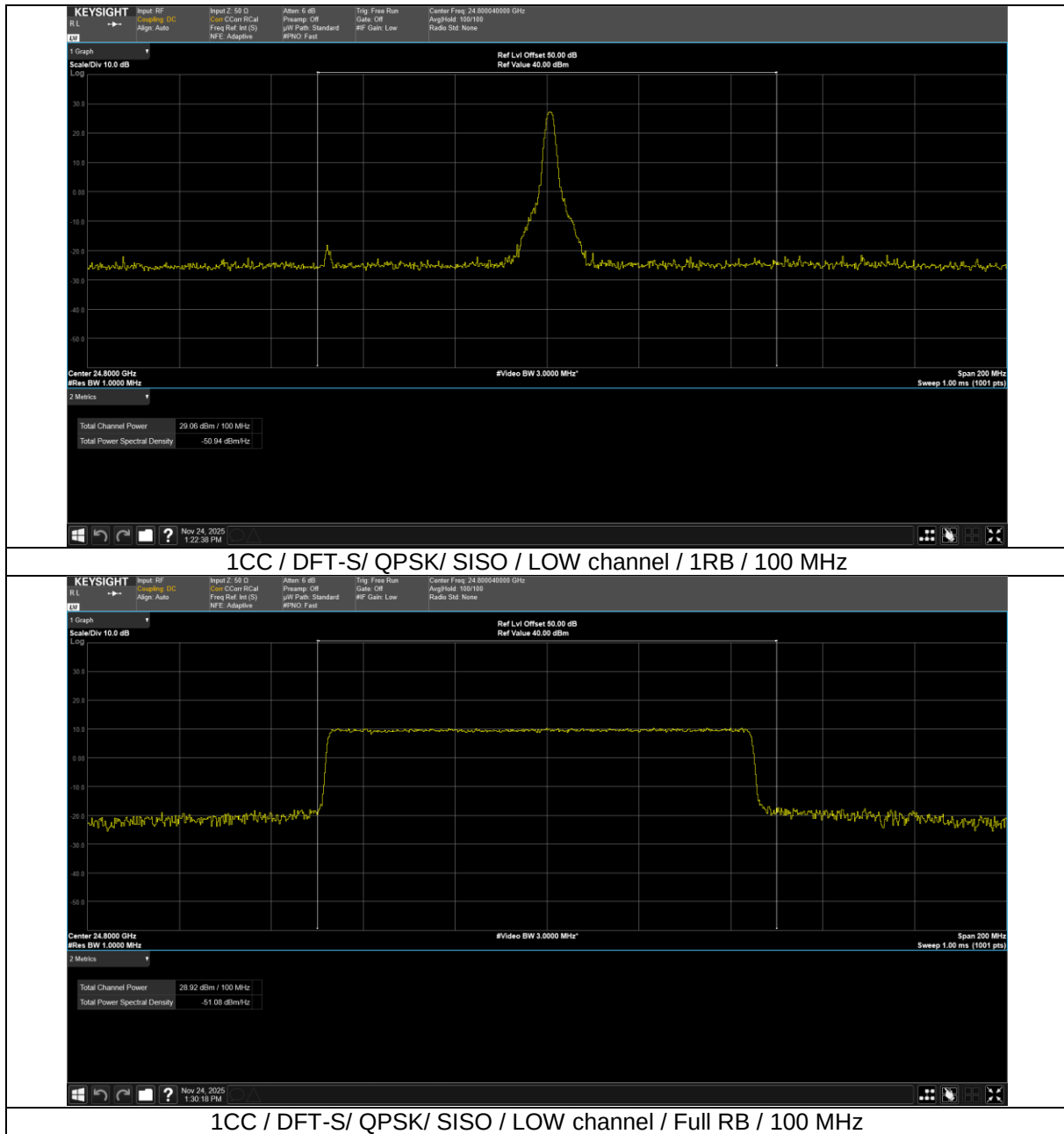


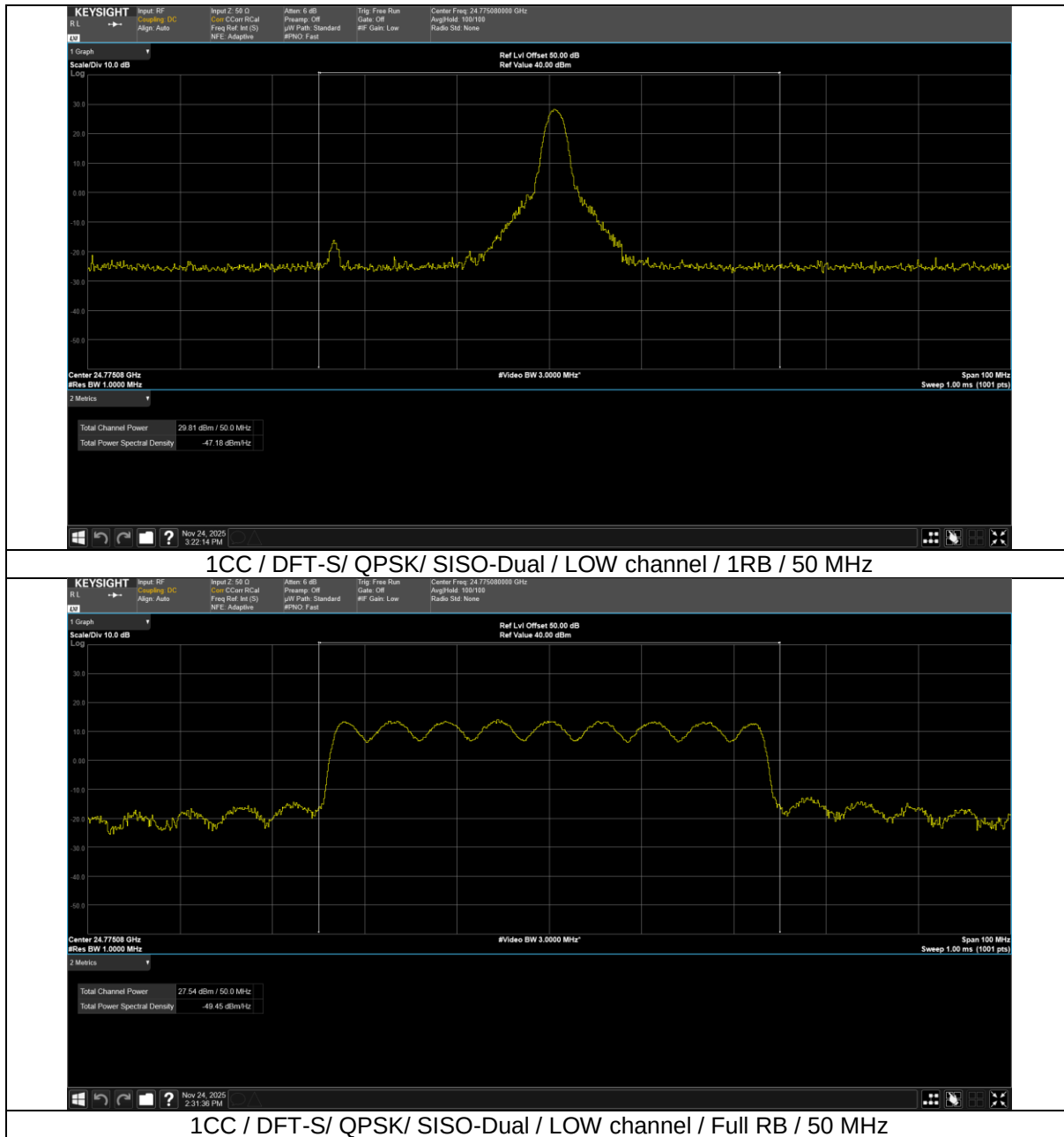
**Antenna 1 / Ant L / Band n258 SB2**

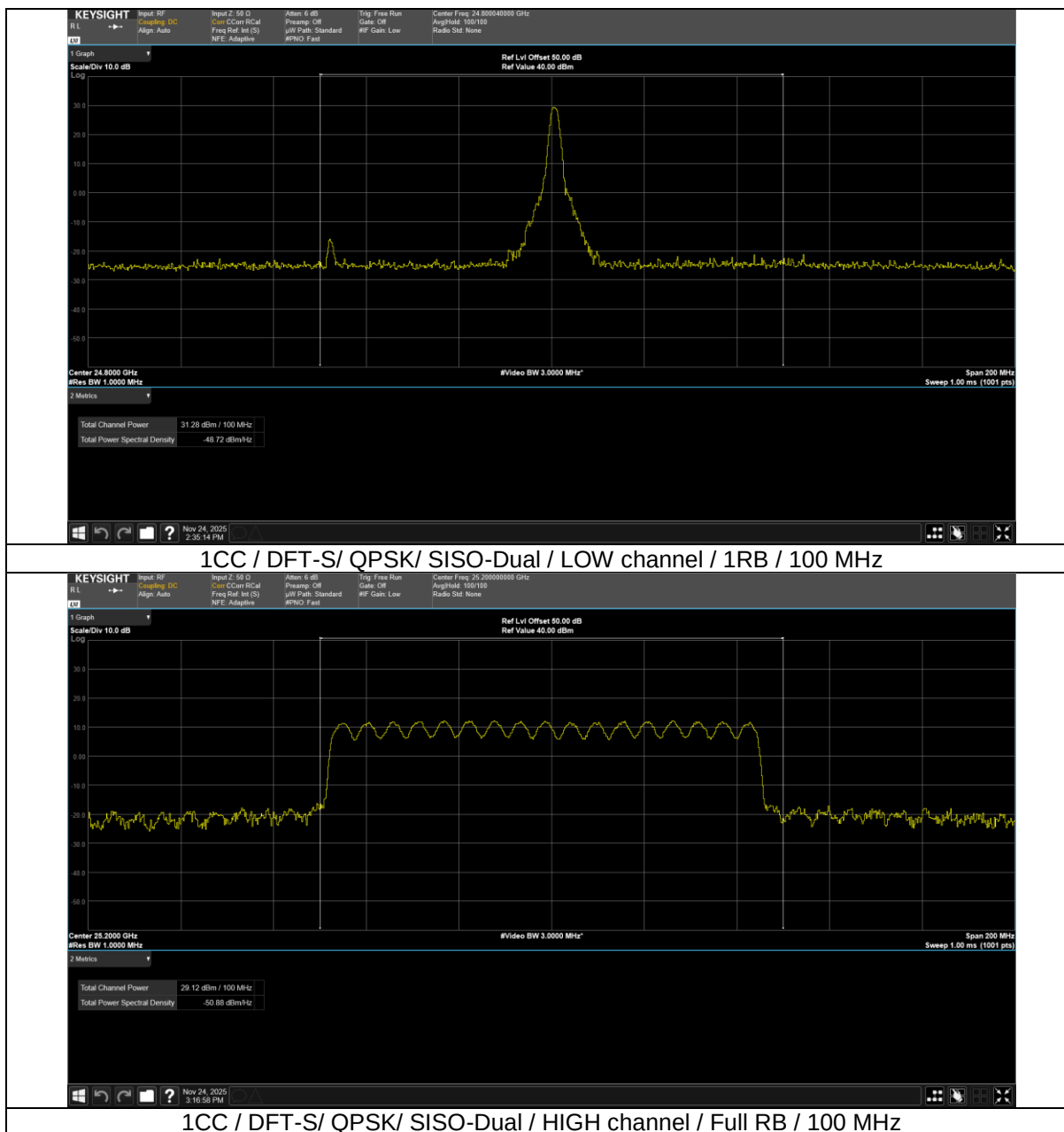
| Test Case | OFDM  | NR Band | Antenna | BW(MHz) | CCs | Mod   | Tx Type | Freq(MHz) | Beam ID | Beam Pol | Ant Pol | RB   | Result (dBm) |
|-----------|-------|---------|---------|---------|-----|-------|---------|-----------|---------|----------|---------|------|--------------|
| EIRP      | DFT-s | n258-R2 | ANT L   | 50      | 1CC | QPSK  | SISO    | 24775.08  | 275     | H        | H       | 1_16 | 28.15        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 50      | 1CC | QPSK  | SISO    | 24999.96  | 275     | H        | H       | 1_19 | 27.61        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 50      | 1CC | QPSK  | SISO    | 25224.96  | 275     | H        | H       | 1_11 | 27.63        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 50      | 1CC | BPSK  | SISO    | 24775.08  | 275     | H        | H       | 1_16 | 28.28        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 50      | 1CC | 16QAM | SISO    | 24775.08  | 275     | H        | H       | 1_16 | 28.34        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 50      | 1CC | 64QAM | SISO    | 24775.08  | 275     | H        | H       | 1_16 | 25.22        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 50      | 1CC | QPSK  | SISO    | 24775.08  | 275     | H        | H       | 32_0 | 28.03        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 50      | 1CC | QPSK  | SISO    | 24999.96  | 275     | H        | H       | 32_0 | 27.60        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 50      | 1CC | QPSK  | SISO    | 25224.96  | 275     | H        | H       | 32_0 | 27.69        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 100     | 1CC | QPSK  | SISO    | 24800.04  | 275     | H        | H       | 1_33 | 29.06        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 100     | 1CC | QPSK  | SISO    | 24999.96  | 275     | H        | H       | 1_43 | 28.47        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 100     | 1CC | QPSK  | SISO    | 25200     | 275     | H        | H       | 1_43 | 27.88        |
| EIRP      | CP    | n258-R2 | ANT L   | 100     | 1CC | QPSK  | SISO    | 24800.04  | 275     | H        | H       | 1_33 | 28.85        |
| EIRP      | CP    | n258-R2 | ANT L   | 100     | 1CC | 16QAM | SISO    | 24800.04  | 275     | H        | H       | 1_33 | 28.87        |
| EIRP      | CP    | n258-R2 | ANT L   | 100     | 1CC | 64QAM | SISO    | 24800.04  | 275     | H        | H       | 1_33 | 25.68        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 100     | 1CC | QPSK  | SISO    | 24800.04  | 275     | H        | H       | 64_0 | 28.92        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 100     | 1CC | QPSK  | SISO    | 24999.96  | 275     | H        | H       | 64_0 | 28.61        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 100     | 1CC | QPSK  | SISO    | 25200     | 275     | H        | H       | 64_0 | 27.83        |

| Test Case | OFDM  | NR Band | Antenna | BW(MHz)         | CCs | Mod   | Tx Type   | Freq(MHz) | Beam ID | Beam Pol | RB   | Result (dBm) |
|-----------|-------|---------|---------|-----------------|-----|-------|-----------|-----------|---------|----------|------|--------------|
| EIRP      | DFT-s | n258-R2 | ANT L   | 50              | 1CC | QPSK  | SISO-Dual | 24775.08  | 16+272  | H+V      | 1_16 | 29.81        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 50              | 1CC | QPSK  | SISO-Dual | 24999.96  | 16+272  | H+V      | 1_16 | 28.68        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 50              | 1CC | QPSK  | SISO-Dual | 25224.96  | 16+272  | H+V      | 1_16 | 29.06        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 50              | 1CC | BPSK  | SISO-Dual | 24775.08  | 16+272  | H+V      | 1_16 | 29.72        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 50              | 1CC | 16QAM | SISO-Dual | 24775.08  | 16+272  | H+V      | 1_16 | 29.73        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 50              | 1CC | 64QAM | SISO-Dual | 24775.08  | 16+272  | H+V      | 1_16 | 26.64        |
| EIRP      | CP    | n258-R2 | ANT L   | 50              | 1CC | QPSK  | MIMO      | 24775.08  | 16+272  | H+V      | 1_16 | 28.68        |
| EIRP      | CP    | n258-R2 | ANT L   | 50              | 1CC | 16QAM | MIMO      | 24775.08  | 16+272  | H+V      | 1_16 | 27.60        |
| EIRP      | CP    | n258-R2 | ANT L   | 50              | 1CC | 64QAM | MIMO      | 24775.08  | 16+272  | H+V      | 1_16 | 23.52        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 50              | 1CC | QPSK  | SISO-Dual | 24775.08  | 16+272  | H+V      | 32_0 | 27.54        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 50              | 1CC | QPSK  | SISO-Dual | 24999.96  | 16+272  | H+V      | 32_0 | 26.84        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 50              | 1CC | QPSK  | SISO-Dual | 25224.96  | 16+272  | H+V      | 32_0 | 26.68        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 100             | 1CC | QPSK  | SISO-Dual | 24800.04  | 16+272  | H+V      | 1_33 | 31.28        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 100             | 1CC | QPSK  | SISO-Dual | 24999.96  | 16+272  | H+V      | 1_42 | 30.33        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 100             | 1CC | QPSK  | SISO-Dual | 25200     | 16+272  | H+V      | 1_33 | 31.04        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 100             | 1CC | BPSK  | SISO-Dual | 24800.04  | 16+272  | H+V      | 1_33 | 30.51        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 100             | 1CC | 16QAM | SISO-Dual | 24800.04  | 16+272  | H+V      | 1_33 | 30.39        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 100             | 1CC | 64QAM | SISO-Dual | 24800.04  | 16+272  | H+V      | 1_33 | 27.26        |
| EIRP      | CP    | n258-R2 | ANT L   | 100             | 1CC | QPSK  | MIMO      | 24800.04  | 16+272  | H+V      | 1_33 | 29.43        |
| EIRP      | CP    | n258-R2 | ANT L   | 100             | 1CC | 16QAM | MIMO      | 24800.04  | 16+272  | H+V      | 1_33 | 28.18        |
| EIRP      | CP    | n258-R2 | ANT L   | 100             | 1CC | 64QAM | MIMO      | 24800.04  | 16+272  | H+V      | 1_33 | 20.28        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100         | 2CC | QPSK  | SISO-Dual | 24850.02  | 16+272  | H+V      | 1_33 | 22.17        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100         | 2CC | BPSK  | SISO-Dual | 24850.02  | 16+272  | H+V      | 1_33 | 22.44        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100         | 2CC | 16QAM | SISO-Dual | 24850.02  | 16+272  | H+V      | 1_33 | 22.35        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100         | 2CC | 64QAM | SISO-Dual | 24850.02  | 16+272  | H+V      | 1_33 | 22.17        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100+100     | 3CC | QPSK  | SISO-Dual | 24900     | 16+272  | H+V      | 1_33 | 21.96        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100+100     | 3CC | BPSK  | SISO-Dual | 24900     | 16+272  | H+V      | 1_33 | 21.50        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100+100     | 3CC | 16QAM | SISO-Dual | 24900     | 16+272  | H+V      | 1_33 | 21.83        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100+100     | 3CC | 64QAM | SISO-Dual | 24900     | 16+272  | H+V      | 1_33 | 21.51        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100+100+100 | 4CC | QPSK  | SISO-Dual | 24949.98  | 16+272  | H+V      | 1_33 | 21.04        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100+100+100 | 4CC | BPSK  | SISO-Dual | 24949.98  | 16+272  | H+V      | 1_33 | 20.96        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100+100+100 | 4CC | 16QAM | SISO-Dual | 24949.98  | 16+272  | H+V      | 1_33 | 19.90        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100+100+100 | 4CC | 64QAM | SISO-Dual | 24949.98  | 16+272  | H+V      | 1_33 | 19.95        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 100             | 1CC | QPSK  | SISO-Dual | 24800.04  | 16+272  | H+V      | 64_0 | 28.85        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 100             | 1CC | QPSK  | SISO-Dual | 24999.96  | 16+272  | H+V      | 64_0 | 28.84        |
| EIRP      | DFT-s | n258-R2 | ANT L   | 100             | 1CC | QPSK  | SISO-Dual | 25200     | 16+272  | H+V      | 64_0 | 29.12        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100         | 2CC | QPSK  | SISO-Dual | 24850.02  | 16+272  | H+V      | 64_0 | 27.82        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100         | 2CC | BPSK  | SISO-Dual | 24850.02  | 16+272  | H+V      | 64_0 | 27.78        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100         | 2CC | 16QAM | SISO-Dual | 24850.02  | 16+272  | H+V      | 64_0 | 27.28        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100         | 2CC | 64QAM | SISO-Dual | 24850.02  | 16+272  | H+V      | 64_0 | 23.66        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100+100     | 3CC | QPSK  | SISO-Dual | 24900     | 16+272  | H+V      | 64_0 | 25.26        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100+100     | 3CC | BPSK  | SISO-Dual | 24900     | 16+272  | H+V      | 64_0 | 25.28        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100+100     | 3CC | 16QAM | SISO-Dual | 24900     | 16+272  | H+V      | 64_0 | 24.38        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100+100     | 3CC | 64QAM | SISO-Dual | 24900     | 16+272  | H+V      | 64_0 | 22.36        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100+100+100 | 4CC | QPSK  | SISO-Dual | 24949.98  | 16+272  | H+V      | 64_0 | 25.07        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100+100+100 | 4CC | BPSK  | SISO-Dual | 24949.98  | 16+272  | H+V      | 64_0 | 25.05        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100+100+100 | 4CC | 16QAM | SISO-Dual | 24949.98  | 16+272  | H+V      | 64_0 | 24.22        |
| EIRP      | DFT-S | n258-R2 | ANT L   | 100+100+100+100 | 4CC | 64QAM | SISO-Dual | 24949.98  | 16+272  | H+V      | 64_0 | 22.71        |





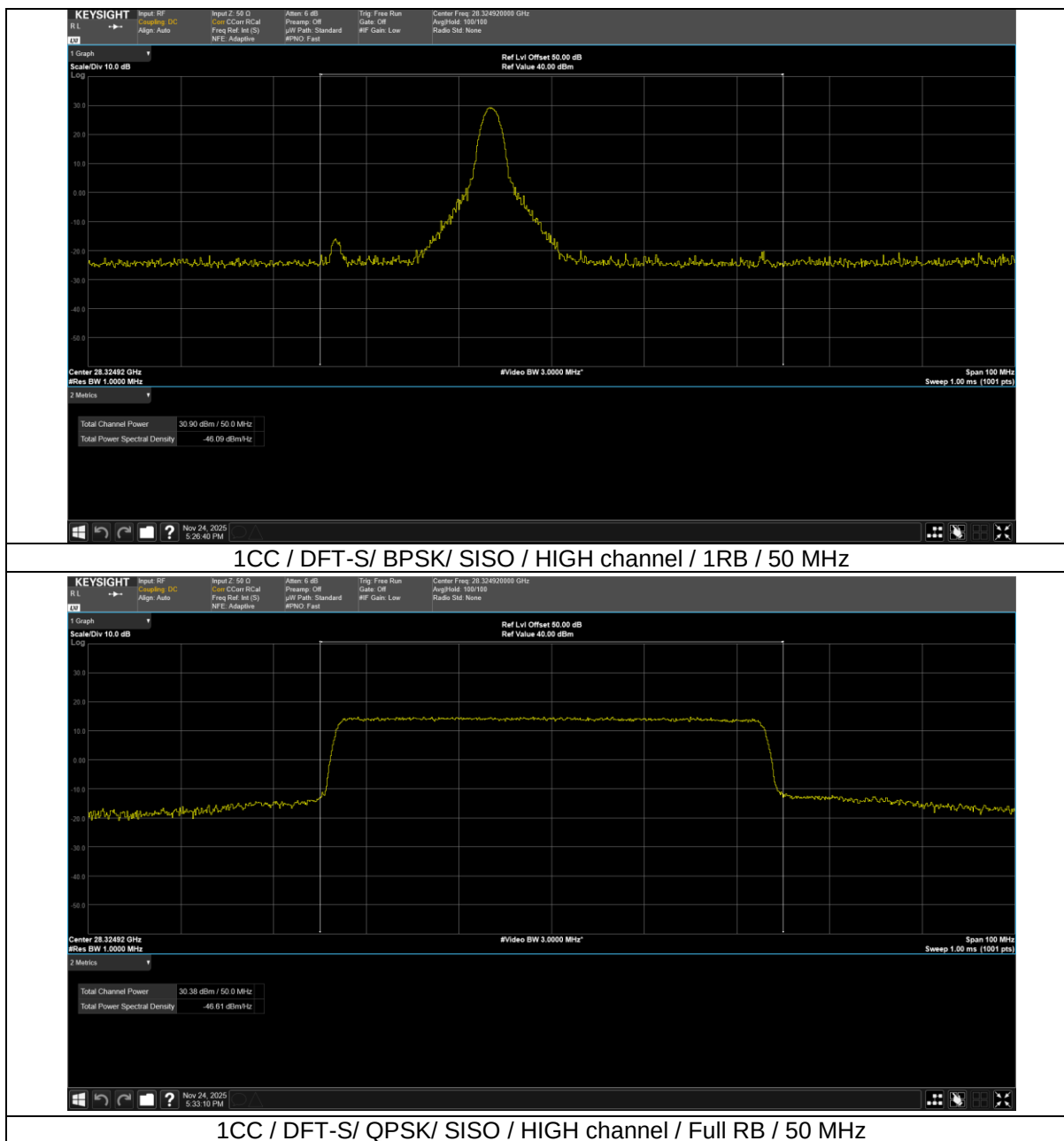


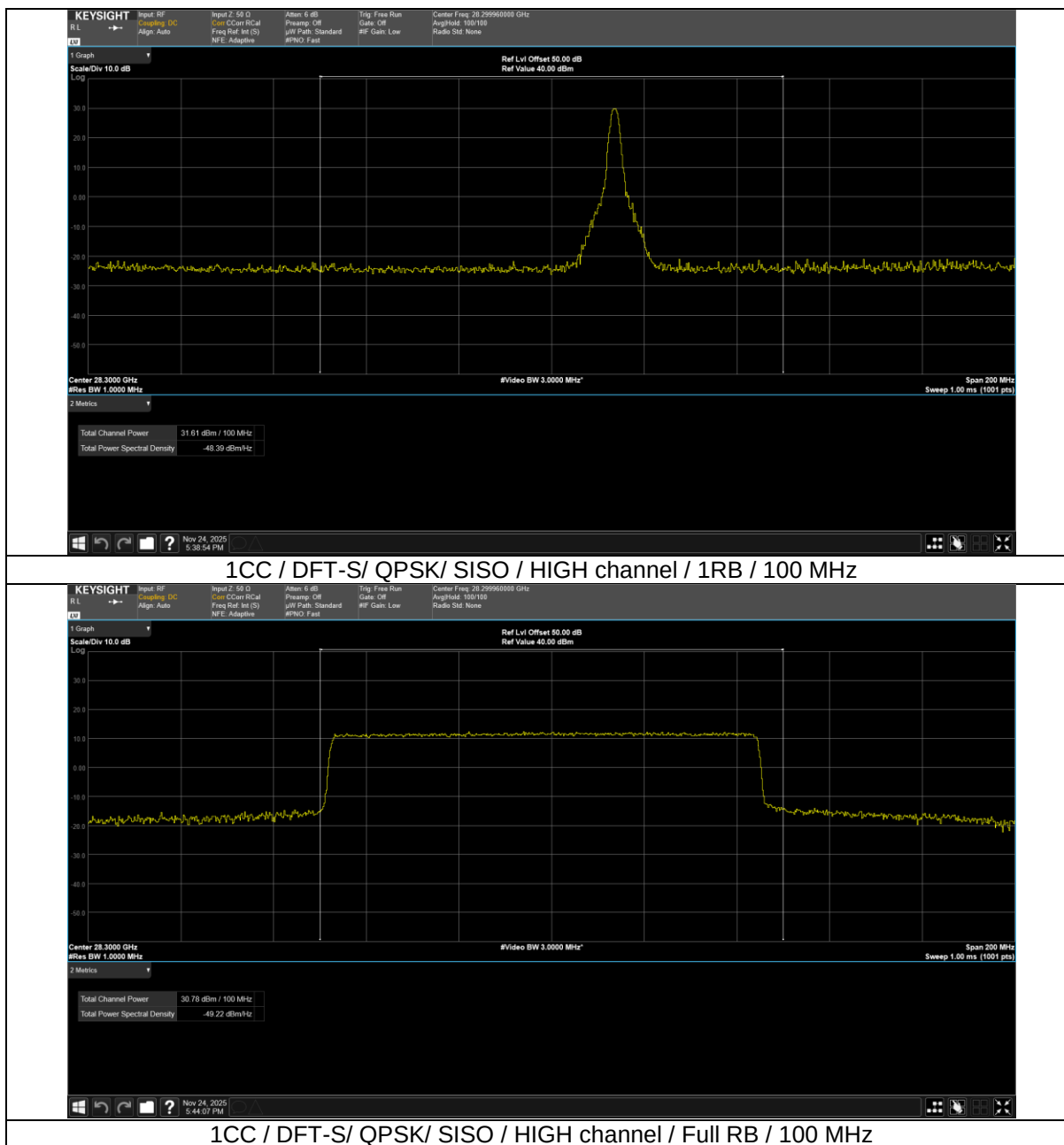


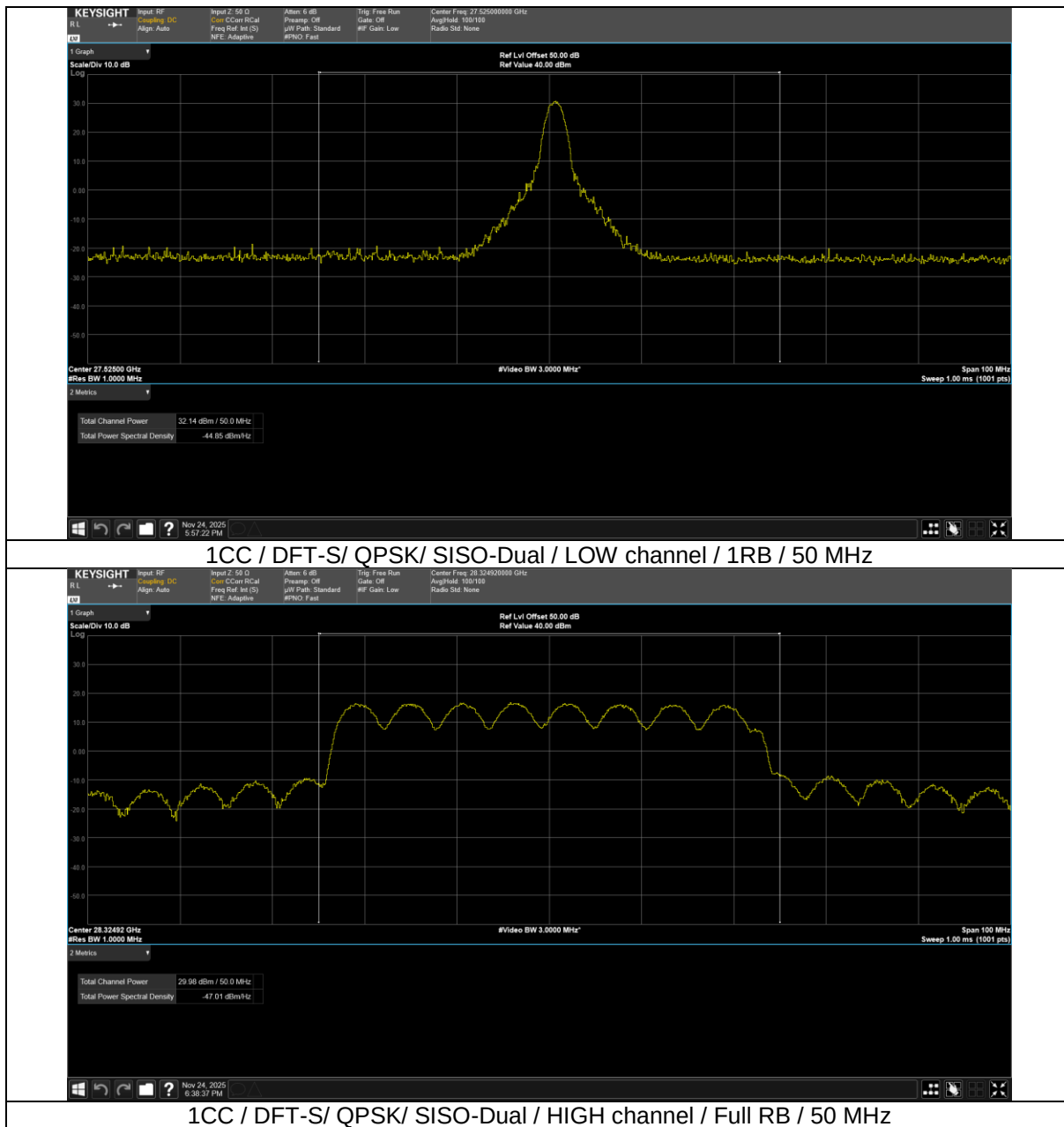
**Antenna 1 / Ant L / Band n261**

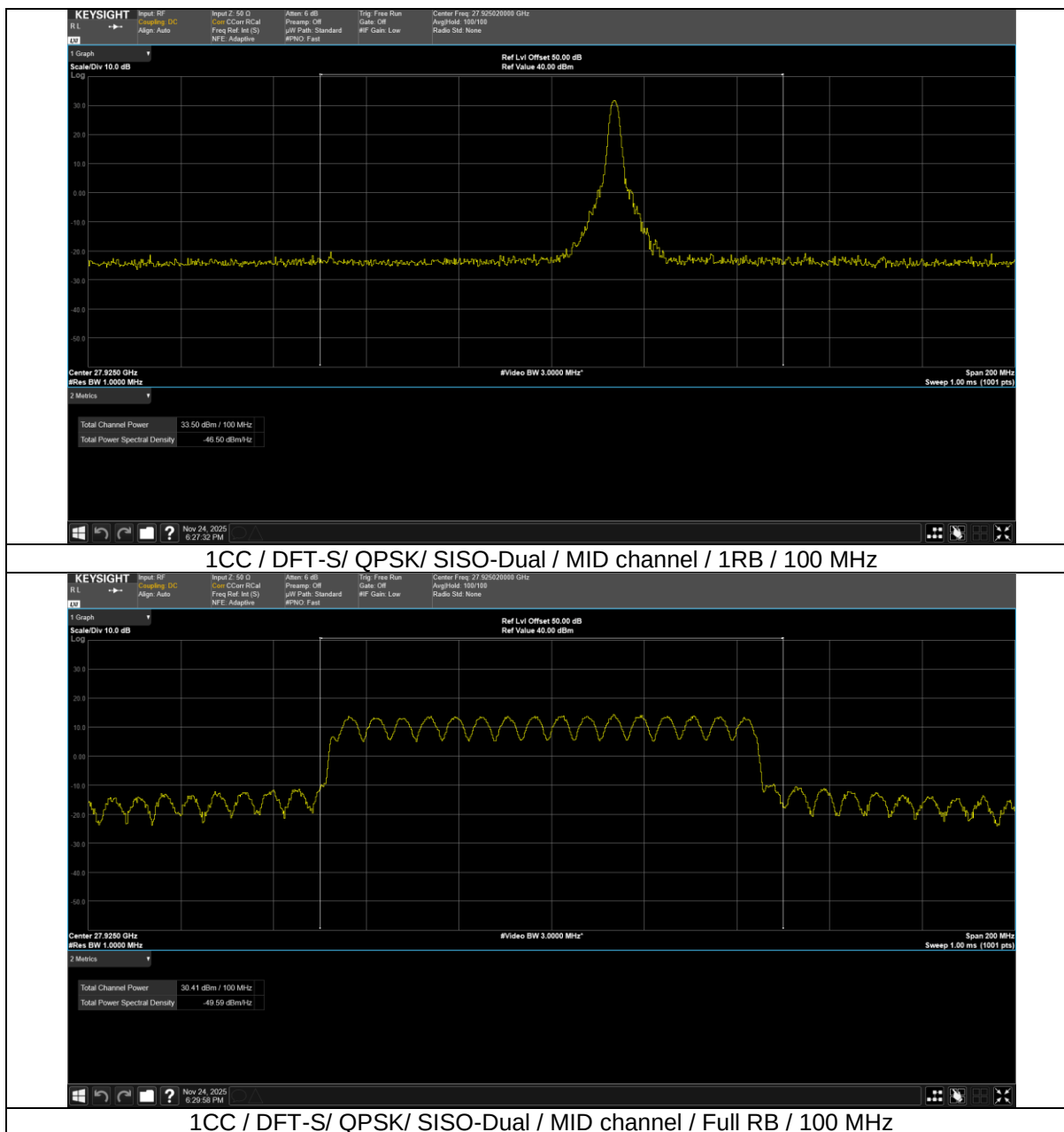
| Test Case | OFDM  | NR Band | Antenna | BW(MHz) | CCs | Mod   | Tx Type | Freq(MHz) | Beam ID | Beam Pol | Ant Pol | RB   | Result (dBm) |
|-----------|-------|---------|---------|---------|-----|-------|---------|-----------|---------|----------|---------|------|--------------|
| EIRP      | DFT-s | n261    | ANT L   | 50      | 1CC | QPSK  | SISO    | 27525     | 270     | H        | H       | 1_19 | 30.10        |
| EIRP      | DFT-s | n261    | ANT L   | 50      | 1CC | QPSK  | SISO    | 27925.02  | 270     | H        | H       | 1_19 | 30.31        |
| EIRP      | DFT-s | n261    | ANT L   | 50      | 1CC | QPSK  | SISO    | 28324.92  | 270     | H        | H       | 1_11 | 30.90        |
| EIRP      | DFT-S | n261    | ANT L   | 50      | 1CC | BPSK  | SISO    | 28324.92  | 270     | H        | H       | 1_42 | 30.82        |
| EIRP      | DFT-S | n261    | ANT L   | 50      | 1CC | 16QAM | SISO    | 28324.92  | 270     | H        | H       | 1_42 | 30.36        |
| EIRP      | DFT-S | n261    | ANT L   | 50      | 1CC | 64QAM | SISO    | 28324.92  | 270     | H        | H       | 1_42 | 27.48        |
| EIRP      | DFT-s | n261    | ANT L   | 50      | 1CC | QPSK  | SISO    | 27525     | 270     | H        | H       | 32_0 | 29.52        |
| EIRP      | DFT-s | n261    | ANT L   | 50      | 1CC | QPSK  | SISO    | 27925.02  | 270     | H        | H       | 32_0 | 29.82        |
| EIRP      | DFT-s | n261    | ANT L   | 50      | 1CC | QPSK  | SISO    | 28324.92  | 270     | H        | H       | 32_0 | 30.38        |
| EIRP      | DFT-s | n261    | ANT L   | 100     | 1CC | QPSK  | SISO    | 27550.08  | 270     | H        | H       | 1_33 | 30.48        |
| EIRP      | DFT-s | n261    | ANT L   | 100     | 1CC | QPSK  | SISO    | 27925.02  | 270     | H        | H       | 1_43 | 30.65        |
| EIRP      | DFT-s | n261    | ANT L   | 100     | 1CC | QPSK  | SISO    | 28299.96  | 270     | H        | H       | 1_42 | 31.61        |
| EIRP      | CP    | n261    | ANT L   | 100     | 1CC | QPSK  | SISO    | 28299.96  | 270     | H        | H       | 1_42 | 29.85        |
| EIRP      | CP    | n261    | ANT L   | 100     | 1CC | 16QAM | SISO    | 28299.96  | 270     | H        | H       | 1_42 | 28.86        |
| EIRP      | CP    | n261    | ANT L   | 100     | 1CC | 64QAM | SISO    | 28299.96  | 270     | H        | H       | 1_42 | 24.91        |
| EIRP      | DFT-s | n261    | ANT L   | 100     | 1CC | QPSK  | SISO    | 27550.08  | 270     | H        | H       | 64_0 | 30.03        |
| EIRP      | DFT-s | n261    | ANT L   | 100     | 1CC | QPSK  | SISO    | 27925.02  | 270     | H        | H       | 64_0 | 30.09        |
| EIRP      | DFT-s | n261    | ANT L   | 100     | 1CC | QPSK  | SISO    | 28299.96  | 270     | H        | H       | 64_0 | 30.78        |

| Test Case | OFDM  | NR Band | Antenna | BW(MHz)         | CCs | Mod   | Tx Type   | Freq(MHz) | Beam ID | Beam Pol | RB   | Result (dBm) |
|-----------|-------|---------|---------|-----------------|-----|-------|-----------|-----------|---------|----------|------|--------------|
| EIRP      | DFT-s | n261    | ANT L   | 50              | 1CC | QPSK  | SISO-Dual | 27525     | 16+272  | H+V      | 1_16 | 32.14        |
| EIRP      | DFT-s | n261    | ANT L   | 50              | 1CC | QPSK  | SISO-Dual | 27925.02  | 16+272  | H+V      | 1_16 | 31.83        |
| EIRP      | DFT-s | n261    | ANT L   | 50              | 1CC | QPSK  | SISO-Dual | 28324.92  | 16+272  | H+V      | 1_16 | 31.57        |
| EIRP      | DFT-S | n261    | ANT L   | 50              | 1CC | BPSK  | SISO-Dual | 27525     | 16+272  | H+V      | 1_16 | 31.25        |
| EIRP      | DFT-S | n261    | ANT L   | 50              | 1CC | 16QAM | SISO-Dual | 27525     | 16+272  | H+V      | 1_16 | 30.56        |
| EIRP      | DFT-S | n261    | ANT L   | 50              | 1CC | 64QAM | SISO-Dual | 27525     | 16+272  | H+V      | 1_16 | 27.51        |
| EIRP      | CP    | n261    | ANT L   | 50              | 1CC | QPSK  | MIMO      | 27525     | 16+272  | H+V      | 1_16 | 29.71        |
| EIRP      | CP    | n261    | ANT L   | 50              | 1CC | 16QAM | MIMO      | 27525     | 16+272  | H+V      | 1_16 | 28.41        |
| EIRP      | CP    | n261    | ANT L   | 50              | 1CC | 64QAM | MIMO      | 27525     | 16+272  | H+V      | 1_16 | 24.45        |
| EIRP      | DFT-s | n261    | ANT L   | 50              | 1CC | QPSK  | SISO-Dual | 27525     | 16+272  | H+V      | 32_0 | 29.55        |
| EIRP      | DFT-s | n261    | ANT L   | 50              | 1CC | QPSK  | SISO-Dual | 27925.02  | 16+272  | H+V      | 32_0 | 29.77        |
| EIRP      | DFT-s | n261    | ANT L   | 50              | 1CC | QPSK  | SISO-Dual | 28324.92  | 16+272  | H+V      | 32_0 | 29.98        |
| EIRP      | DFT-s | n261    | ANT L   | 100             | 1CC | QPSK  | SISO-Dual | 27550.08  | 16+272  | H+V      | 1_22 | 32.61        |
| EIRP      | DFT-s | n261    | ANT L   | 100             | 1CC | QPSK  | SISO-Dual | 27925.02  | 16+272  | H+V      | 1_42 | 33.50        |
| EIRP      | DFT-s | n261    | ANT L   | 100             | 1CC | QPSK  | SISO-Dual | 28299.96  | 16+272  | H+V      | 1_33 | 31.62        |
| EIRP      | DFT-S | n261    | ANT L   | 100             | 1CC | BPSK  | SISO-Dual | 27550.08  | 16+272  | H+V      | 1_42 | 32.91        |
| EIRP      | DFT-S | n261    | ANT L   | 100             | 1CC | 16QAM | SISO-Dual | 27550.08  | 16+272  | H+V      | 1_42 | 32.45        |
| EIRP      | DFT-S | n261    | ANT L   | 100             | 1CC | 64QAM | SISO-Dual | 27550.08  | 16+272  | H+V      | 1_42 | 28.95        |
| EIRP      | CP    | n261    | ANT L   | 100             | 1CC | QPSK  | MIMO      | 27550.08  | 16+272  | H+V      | 1_42 | 31.50        |
| EIRP      | CP    | n261    | ANT L   | 100             | 1CC | 16QAM | MIMO      | 27550.08  | 16+272  | H+V      | 1_42 | 29.99        |
| EIRP      | CP    | n261    | ANT L   | 100             | 1CC | 64QAM | MIMO      | 27550.08  | 16+272  | H+V      | 1_42 | 25.96        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100         | 2CC | QPSK  | SISO-Dual | 27925.02  | 16+272  | H+V      | 1_42 | 19.68        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100         | 2CC | BPSK  | SISO-Dual | 27925.02  | 16+272  | H+V      | 1_42 | 21.31        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100         | 2CC | 16QAM | SISO-Dual | 27925.02  | 16+272  | H+V      | 1_42 | 19.87        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100         | 2CC | 64QAM | SISO-Dual | 27925.02  | 16+272  | H+V      | 1_42 | 18.20        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100+100     | 3CC | QPSK  | SISO-Dual | 27925.02  | 16+272  | H+V      | 1_42 | 22.08        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100+100     | 3CC | BPSK  | SISO-Dual | 27925.02  | 16+272  | H+V      | 1_42 | 22.39        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100+100     | 3CC | 16QAM | SISO-Dual | 27925.02  | 16+272  | H+V      | 1_42 | 22.45        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100+100     | 3CC | 64QAM | SISO-Dual | 27925.02  | 16+272  | H+V      | 1_42 | 23.84        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100+100+100 | 4CC | QPSK  | SISO-Dual | 27925.02  | 16+272  | H+V      | 1_42 | 22.53        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100+100+100 | 4CC | BPSK  | SISO-Dual | 27925.02  | 16+272  | H+V      | 1_42 | 22.52        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100+100+100 | 4CC | 16QAM | SISO-Dual | 27925.02  | 16+272  | H+V      | 1_42 | 22.40        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100+100+100 | 4CC | 64QAM | SISO-Dual | 27925.02  | 16+272  | H+V      | 1_42 | 22.47        |
| EIRP      | DFT-s | n261    | ANT L   | 100             | 1CC | QPSK  | SISO-Dual | 27550.08  | 16+272  | H+V      | 64_0 | 29.76        |
| EIRP      | DFT-s | n261    | ANT L   | 100             | 1CC | QPSK  | SISO-Dual | 27925.02  | 16+272  | H+V      | 64_0 | 30.41        |
| EIRP      | DFT-s | n261    | ANT L   | 100             | 1CC | QPSK  | SISO-Dual | 28299.96  | 16+272  | H+V      | 64_0 | 29.31        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100         | 2CC | QPSK  | SISO-Dual | 27925.02  | 16+272  | H+V      | 64_0 | 29.95        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100         | 2CC | BPSK  | SISO-Dual | 27925.02  | 16+272  | H+V      | 64_0 | 29.94        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100         | 2CC | 16QAM | SISO-Dual | 27925.02  | 16+272  | H+V      | 64_0 | 29.42        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100         | 2CC | 64QAM | SISO-Dual | 27925.02  | 16+272  | H+V      | 64_0 | 25.73        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100+100     | 3CC | QPSK  | SISO-Dual | 27925.02  | 16+272  | H+V      | 64_0 | 27.34        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100+100     | 3CC | BPSK  | SISO-Dual | 27925.02  | 16+272  | H+V      | 64_0 | 27.33        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100+100     | 3CC | 16QAM | SISO-Dual | 27925.02  | 16+272  | H+V      | 64_0 | 26.32        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100+100     | 3CC | 64QAM | SISO-Dual | 27925.02  | 16+272  | H+V      | 64_0 | 24.76        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100+100+100 | 4CC | QPSK  | SISO-Dual | 27925.02  | 16+272  | H+V      | 64_0 | 26.99        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100+100+100 | 4CC | BPSK  | SISO-Dual | 27925.02  | 16+272  | H+V      | 64_0 | 27.01        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100+100+100 | 4CC | 16QAM | SISO-Dual | 27925.02  | 16+272  | H+V      | 64_0 | 26.11        |
| EIRP      | DFT-S | n261    | ANT L   | 100+100+100+100 | 4CC | 64QAM | SISO-Dual | 27925.02  | 16+272  | H+V      | 64_0 | 24.6         |





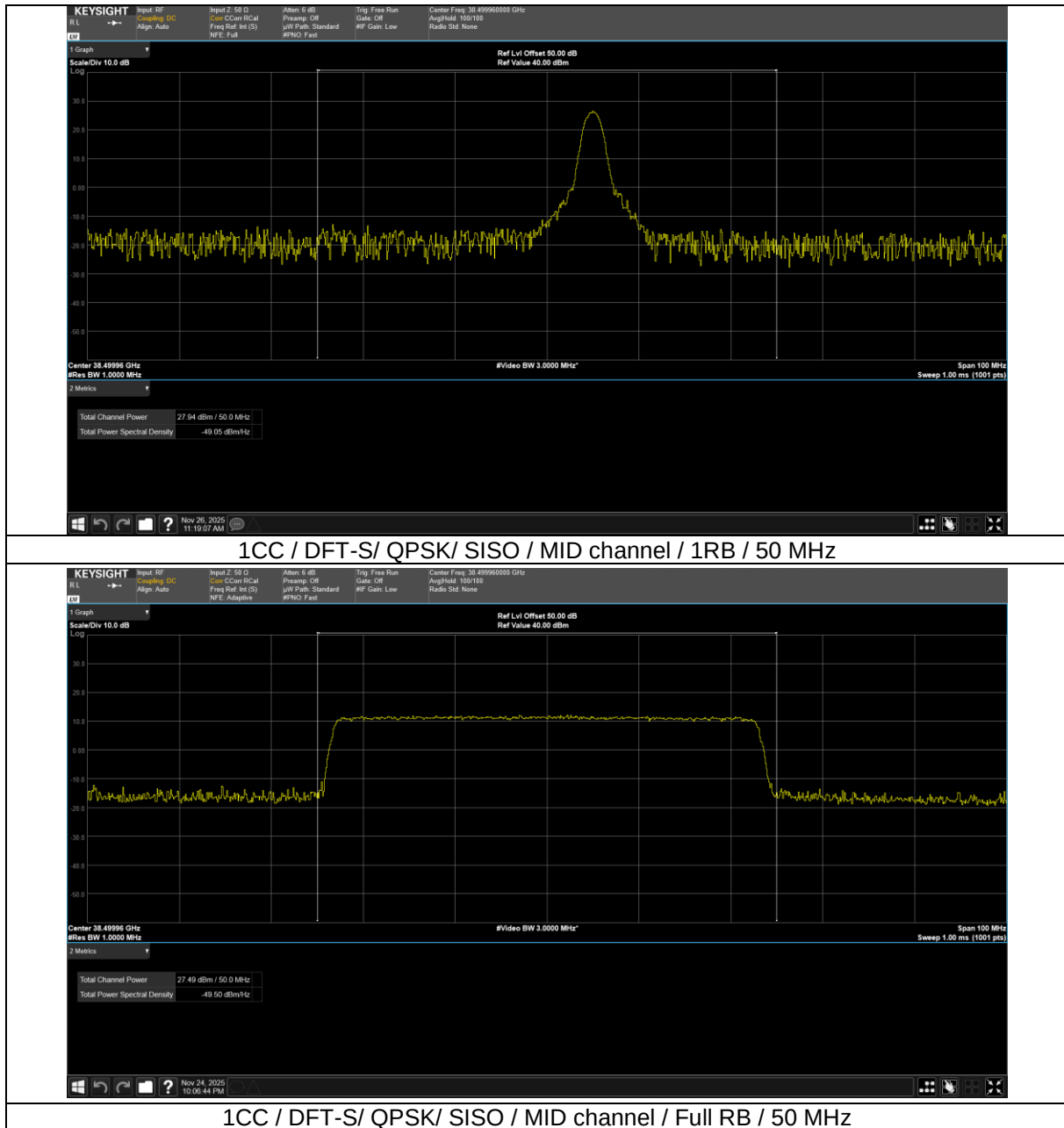




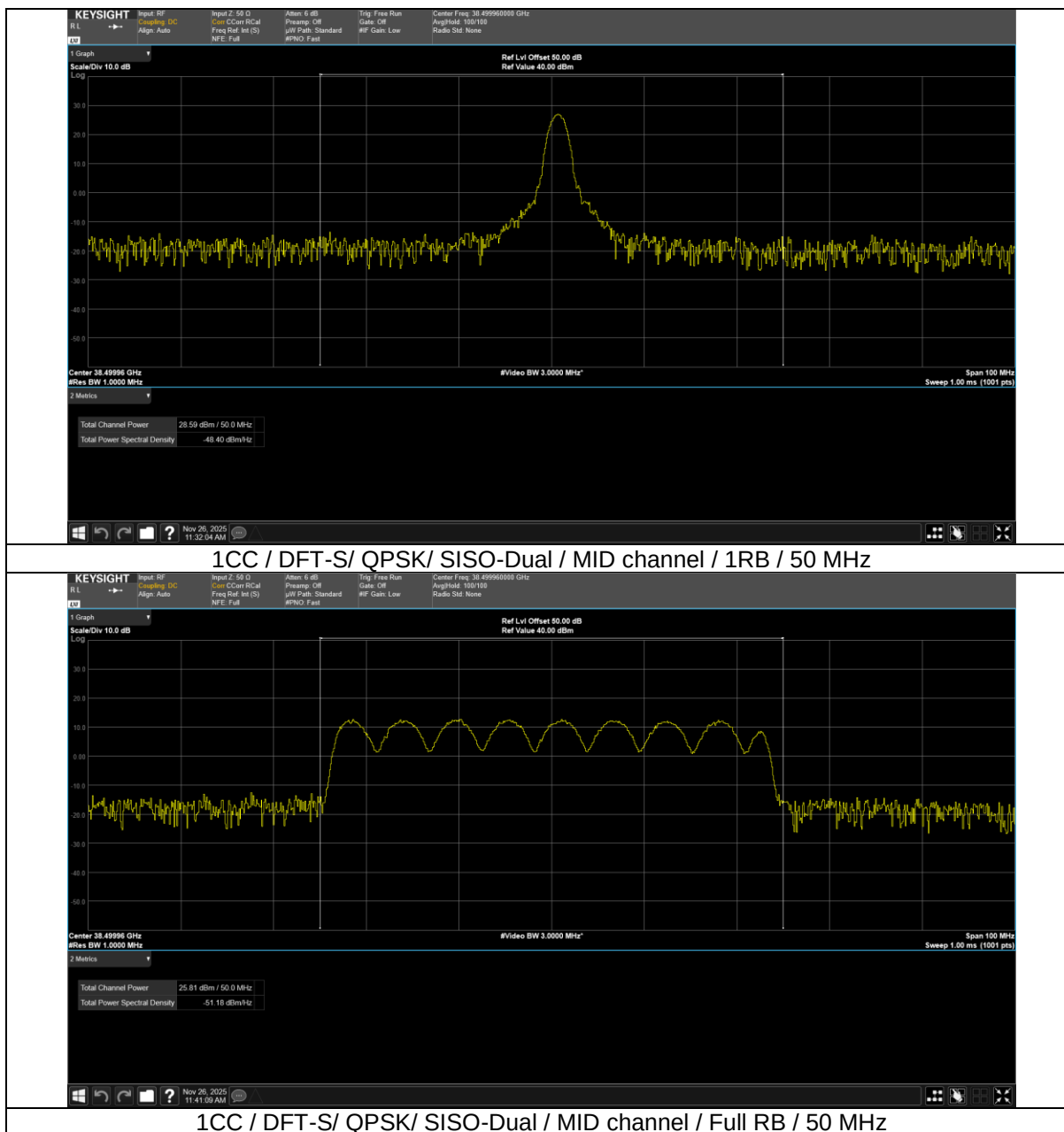
**Antenna 1 / Ant L / Band n260**

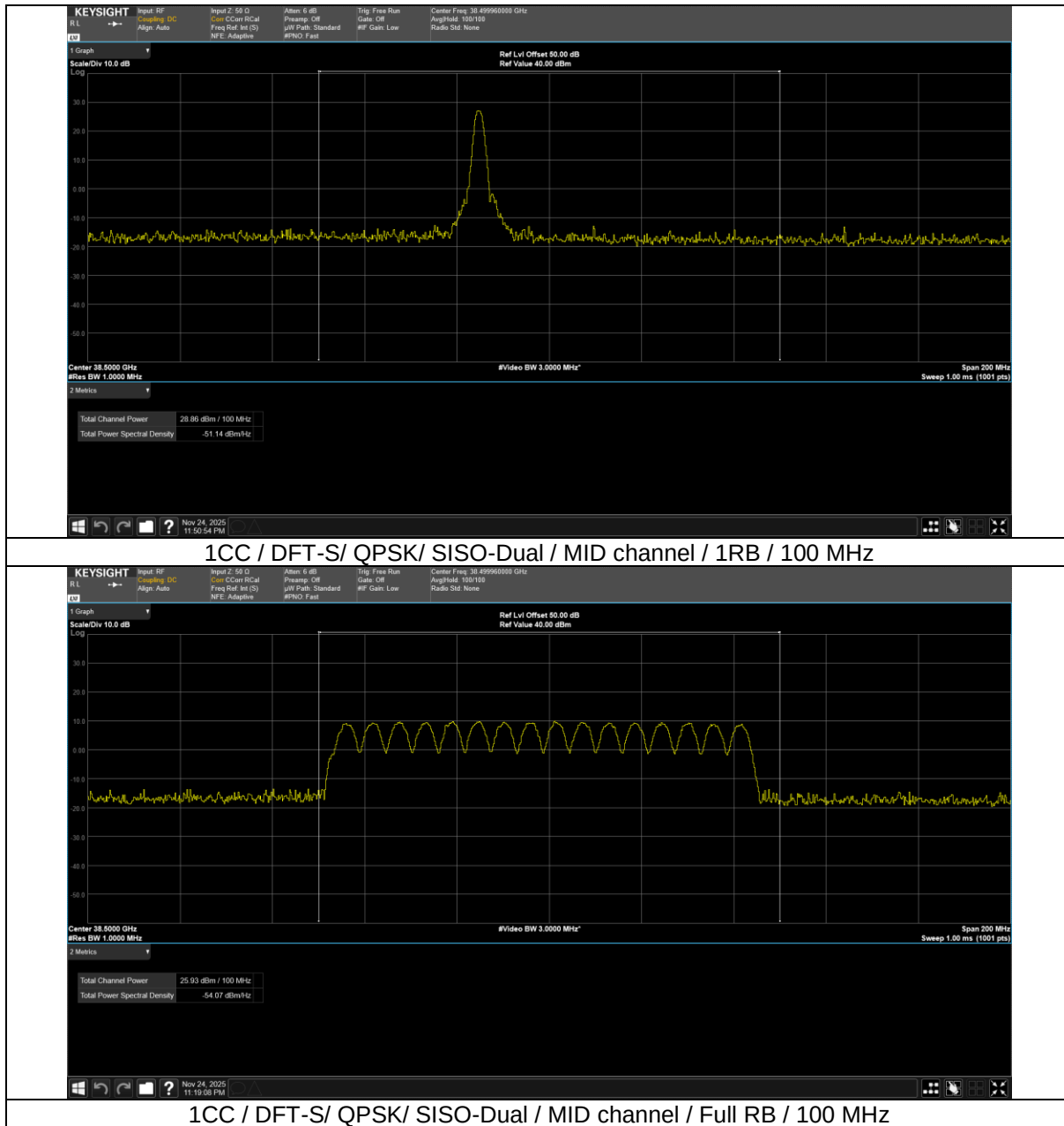
| Test Case | OFDM  | NR Band | Antenna | BW(MHz) | CCs | Mod   | Tx Type | Freq(MHz) | Beam ID | Beam Pol | Ant Pol | RB   | Result (dBm) |
|-----------|-------|---------|---------|---------|-----|-------|---------|-----------|---------|----------|---------|------|--------------|
| EIRP      | DFT-s | n260    | ANT L   | 50      | 1CC | QPSK  | SISO    | 37025.04  | 270     | V        | V       | 1_16 | 26.07        |
| EIRP      | DFT-s | n260    | ANT L   | 50      | 1CC | QPSK  | SISO    | 38499.96  | 270     | V        | V       | 1_19 | 27.94        |
| EIRP      | DFT-s | n260    | ANT L   | 50      | 1CC | QPSK  | SISO    | 39975     | 270     | V        | V       | 1_19 | 25.32        |
| EIRP      | DFT-s | n260    | ANT L   | 50      | 1CC | BPSK  | SISO    | 38499.96  | 270     | V        | V       | 1_19 | 27.57        |
| EIRP      | DFT-s | n260    | ANT L   | 50      | 1CC | 16QAM | SISO    | 38499.96  | 270     | V        | V       | 1_19 | 27.40        |
| EIRP      | DFT-s | n260    | ANT L   | 50      | 1CC | 64QAM | SISO    | 38499.96  | 270     | V        | V       | 1_19 | 24.84        |
| EIRP      | DFT-s | n260    | ANT L   | 50      | 1CC | QPSK  | SISO    | 37025.04  | 270     | V        | V       | 32_0 | 26.44        |
| EIRP      | DFT-s | n260    | ANT L   | 50      | 1CC | QPSK  | SISO    | 38499.96  | 270     | V        | V       | 32_0 | 27.49        |
| EIRP      | DFT-s | n260    | ANT L   | 50      | 1CC | QPSK  | SISO    | 39975     | 270     | V        | V       | 32_0 | 25.22        |
| EIRP      | DFT-s | n260    | ANT L   | 100     | 1CC | QPSK  | SISO    | 37050     | 270     | V        | V       | 1_22 | 26.69        |
| EIRP      | DFT-s | n260    | ANT L   | 100     | 1CC | QPSK  | SISO    | 38499.96  | 270     | V        | V       | 1_22 | 28.81        |
| EIRP      | DFT-s | n260    | ANT L   | 100     | 1CC | QPSK  | SISO    | 39949.92  | 270     | V        | V       | 1_22 | 26.86        |
| EIRP      | CP    | n260    | ANT L   | 100     | 1CC | QPSK  | SISO    | 38499.96  | 270     | V        | V       | 1_22 | 28.47        |
| EIRP      | CP    | n260    | ANT L   | 100     | 1CC | 16QAM | SISO    | 38499.96  | 270     | V        | V       | 1_22 | 27.51        |
| EIRP      | CP    | n260    | ANT L   | 100     | 1CC | 64QAM | SISO    | 38499.96  | 270     | V        | V       | 1_22 | 23.36        |
| EIRP      | DFT-s | n260    | ANT L   | 100     | 1CC | QPSK  | SISO    | 37050     | 270     | V        | V       | 64_0 | 26.75        |
| EIRP      | DFT-s | n260    | ANT L   | 100     | 1CC | QPSK  | SISO    | 38499.96  | 270     | V        | V       | 64_0 | 28.63        |
| EIRP      | DFT-s | n260    | ANT L   | 100     | 1CC | QPSK  | SISO    | 39949.92  | 270     | V        | V       | 64_0 | 26.77        |

| Test Case | OFDM  | NR Band | Antenna | BW(MHz)         | CCs | Mod   | Tx Type   | Freq(MHz) | Beam ID | Beam Pol | RB   | Result (dBm) |
|-----------|-------|---------|---------|-----------------|-----|-------|-----------|-----------|---------|----------|------|--------------|
| EIRP      | DFT-s | n260    | ANT L   | 50              | 1CC | QPSK  | SISO-Dual | 37025.04  | 18+274  | H+V      | 1_16 | 27.60        |
| EIRP      | DFT-s | n260    | ANT L   | 50              | 1CC | QPSK  | SISO-Dual | 38499.96  | 18+274  | H+V      | 1_16 | 28.59        |
| EIRP      | DFT-s | n260    | ANT L   | 50              | 1CC | QPSK  | SISO-Dual | 39975     | 18+274  | H+V      | 1_16 | 26.84        |
| EIRP      | DFT-s | n260    | ANT L   | 50              | 1CC | BPSK  | SISO-Dual | 38499.96  | 18+274  | H+V      | 1_16 | 27.70        |
| EIRP      | DFT-s | n260    | ANT L   | 50              | 1CC | 16QAM | SISO-Dual | 38499.96  | 18+274  | H+V      | 1_16 | 27.94        |
| EIRP      | DFT-s | n260    | ANT L   | 50              | 1CC | 64QAM | SISO-Dual | 38499.96  | 18+274  | H+V      | 1_16 | 24.87        |
| EIRP      | CP    | n260    | ANT L   | 50              | 1CC | QPSK  | MIMO      | 38499.96  | 18+274  | H+V      | 1_16 | 27.32        |
| EIRP      | CP    | n260    | ANT L   | 50              | 1CC | 16QAM | MIMO      | 38499.96  | 18+274  | H+V      | 1_16 | 26.38        |
| EIRP      | CP    | n260    | ANT L   | 50              | 1CC | 64QAM | MIMO      | 38499.96  | 18+274  | H+V      | 1_16 | 21.83        |
| EIRP      | DFT-s | n260    | ANT L   | 50              | 1CC | QPSK  | SISO-Dual | 37025.04  | 18+274  | H+V      | 32_0 | 25.28        |
| EIRP      | DFT-s | n260    | ANT L   | 50              | 1CC | QPSK  | SISO-Dual | 38499.96  | 18+274  | H+V      | 32_0 | 25.81        |
| EIRP      | DFT-s | n260    | ANT L   | 50              | 1CC | QPSK  | SISO-Dual | 39975     | 18+274  | H+V      | 32_0 | 24.99        |
| EIRP      | DFT-s | n260    | ANT L   | 100             | 1CC | QPSK  | SISO-Dual | 37050     | 18+274  | H+V      | 1_22 | 27.87        |
| EIRP      | DFT-s | n260    | ANT L   | 100             | 1CC | QPSK  | SISO-Dual | 38499.96  | 18+274  | H+V      | 1_22 | 28.86        |
| EIRP      | DFT-s | n260    | ANT L   | 100             | 1CC | QPSK  | SISO-Dual | 39949.92  | 18+274  | H+V      | 1_33 | 28.17        |
| EIRP      | DFT-s | n260    | ANT L   | 100             | 1CC | BPSK  | SISO-Dual | 38499.96  | 18+274  | H+V      | 1_22 | 28.83        |
| EIRP      | DFT-s | n260    | ANT L   | 100             | 1CC | 16QAM | SISO-Dual | 38499.96  | 18+274  | H+V      | 1_22 | 28.78        |
| EIRP      | DFT-s | n260    | ANT L   | 100             | 1CC | 64QAM | SISO-Dual | 38499.96  | 18+274  | H+V      | 1_22 | 25.76        |
| EIRP      | CP    | n260    | ANT L   | 100             | 1CC | QPSK  | MIMO      | 38499.96  | 18+274  | H+V      | 1_22 | 28.48        |
| EIRP      | CP    | n260    | ANT L   | 100             | 1CC | 16QAM | MIMO      | 38499.96  | 18+274  | H+V      | 1_22 | 27.36        |
| EIRP      | CP    | n260    | ANT L   | 100             | 1CC | 64QAM | MIMO      | 38499.96  | 18+274  | H+V      | 1_22 | 23.40        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100         | 2CC | QPSK  | SISO-Dual | 38499.96  | 18+274  | H+V      | 1_22 | 21.10        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100         | 2CC | BPSK  | SISO-Dual | 38499.96  | 18+274  | H+V      | 1_22 | 19.90        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100         | 2CC | 16QAM | SISO-Dual | 38499.96  | 18+274  | H+V      | 1_22 | 20.10        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100         | 2CC | 64QAM | SISO-Dual | 38499.96  | 18+274  | H+V      | 1_22 | 19.57        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100+100     | 3CC | QPSK  | SISO-Dual | 38499.96  | 18+274  | H+V      | 1_22 | 20.78        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100+100     | 3CC | BPSK  | SISO-Dual | 38499.96  | 18+274  | H+V      | 1_22 | 20.90        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100+100     | 3CC | 16QAM | SISO-Dual | 38499.96  | 18+274  | H+V      | 1_22 | 19.87        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100+100     | 3CC | 64QAM | SISO-Dual | 38499.96  | 18+274  | H+V      | 1_22 | 20.64        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100+100+100 | 4CC | QPSK  | SISO-Dual | 38499.96  | 18+274  | H+V      | 1_22 | 21.24        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100+100+100 | 4CC | BPSK  | SISO-Dual | 38499.96  | 18+274  | H+V      | 1_22 | 21.17        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100+100+100 | 4CC | 16QAM | SISO-Dual | 38499.96  | 18+274  | H+V      | 1_22 | 20.67        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100+100+100 | 4CC | 64QAM | SISO-Dual | 38499.96  | 18+274  | H+V      | 1_22 | 21.13        |
| EIRP      | DFT-s | n260    | ANT L   | 100             | 1CC | QPSK  | SISO-Dual | 37050     | 18+274  | H+V      | 64_0 | 25.50        |
| EIRP      | DFT-s | n260    | ANT L   | 100             | 1CC | QPSK  | SISO-Dual | 38499.96  | 18+274  | H+V      | 64_0 | 25.93        |
| EIRP      | DFT-s | n260    | ANT L   | 100             | 1CC | QPSK  | SISO-Dual | 39949.92  | 18+274  | H+V      | 64_0 | 25.73        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100         | 2CC | QPSK  | SISO-Dual | 38499.96  | 18+274  | H+V      | 64_0 | 25.81        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100         | 2CC | BPSK  | SISO-Dual | 38499.96  | 18+274  | H+V      | 64_0 | 25.78        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100         | 2CC | 16QAM | SISO-Dual | 38499.96  | 18+274  | H+V      | 64_0 | 25.29        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100         | 2CC | 64QAM | SISO-Dual | 38499.96  | 18+274  | H+V      | 64_0 | 21.81        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100+100     | 3CC | QPSK  | SISO-Dual | 38499.96  | 18+274  | H+V      | 64_0 | 23.21        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100+100     | 3CC | BPSK  | SISO-Dual | 38499.96  | 18+274  | H+V      | 64_0 | 23.23        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100+100     | 3CC | 16QAM | SISO-Dual | 38499.96  | 18+274  | H+V      | 64_0 | 23.76        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100+100     | 3CC | 64QAM | SISO-Dual | 38499.96  | 18+274  | H+V      | 64_0 | 20.77        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100+100+100 | 4CC | QPSK  | SISO-Dual | 38499.96  | 18+274  | H+V      | 64_0 | 23.25        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100+100+100 | 4CC | BPSK  | SISO-Dual | 38499.96  | 18+274  | H+V      | 64_0 | 23.30        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100+100+100 | 4CC | 16QAM | SISO-Dual | 38499.96  | 18+274  | H+V      | 64_0 | 23.68        |
| EIRP      | DFT-s | n260    | ANT L   | 100+100+100+100 | 4CC | 64QAM | SISO-Dual | 38499.96  | 18+274  | H+V      | 64_0 | 20.80        |









### 8.3. BAND EDGE EMISSIONS

#### RULE PART(S)

FCC: §2.1051, §30.203

#### LIMITSs

30.203 (a) - The conductive power or the total radiated power of any emission outside a licensee's frequency block shall be -13 dBm/MHz or lower. However, in the bands immediately outside and adjacent to the licensee's frequency block, having a bandwidth equal to 10 percent of the channel bandwidth, the conductive power or the total radiated power of any emission shall be -5 dBm/MHz or lower.

#### TEST PROCEDURE

- a) RBW = 1MHz
- b) VBW  $\geq 3 \times$  RBW
- c) number of measurement points in sweep  $> 2 \times$  span / RBW
- d) Sweep time = auto-couple
- e) Detector = RMS
- f) Trace mode = average

(KDB 842590 D01 Upper Microwave Flexible Use Service v01r02 Section 4.4.2.5)  
(ANSI C63.26-2015 Section 5 and 6.4)

#### NOTE

Band Edge emissions were measured at a 3-meter distance.

Band Edge measurements were measured as EIRP for direct comparison to the 30.203 TRP limit to demonstrate compliance.

$\pi/2$ -BPSK, QPSK, 16QAM and 64QAM modulations were all investigated in SISO, SISO-Dual and MIMO configurations. The highest band edge emissions were for the SISO-Dual antenna configuration consistent with this also being the configuration with the highest EIRP. The SISO-Dual configuration was, therefore, use for the final band-edge measurements. Full RB test case was additional measurements were made on the MIMO configuration as it has a wider bandwidth than the SISO-DUAL configuration. Only the worst-case results are reported.

5G NR: All Waveforms (CP-OFDM vs DFT-s OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

In order properly display of signal level on the plots, the pre-loaded correction factors were intentional lowered by 50 dB and an offset factor of 50 dB was applied on spectrum analyzer to compensate the true correction factors across frequency range of measurement.

The spectrum analyzer for each measurement shows an offset value that was determined using the measurement antenna factor, cable loss, far field measurement distance, and EUT antenna gain. A sample calculation is shown below.

**Sample Calculation of EIRP(at 24.245GHz):**

$$\begin{aligned}\text{Total Correction Factor} &= \text{Cable Loss(dB)} + \text{Measurement Antenna Factor(dB/m)} + 11.74\text{dB(D=3m)} \\ &= 4.10 + 45.29 + 11.74 \\ &= 61.13 \text{ dB}\end{aligned}$$

$\text{EIRP} = P_{\text{measured}}(\text{dBm})$ , where Total Correction Factor preloaded.

In order properly display of signal level on the plots, the pre-loaded correction factors were intentional lowered by 50 dB and an offset factor of 50 dB was applied on spectrum analyzer to compensate the true correction factors across frequency range of measurement.

**Antenna gain Information at the Band Edge**

The following antenna gain information is provided to demonstrate the antenna performance. Band edge emission was initially tested without correction for antenna gain.

If the EIRP measurement result exceeds the TRP limit, then calculate conductive power from EIRP by subtracting the manufacturer-supplied antenna gain from the EIRP according to the KDB 842590 4.4.2.5

$$\text{Conducted Power Level(dBm/BW)} = \text{Measured EIRP level(dBm/BW)} - \text{EUT antenna Gain(dBi)}$$

$$\text{Measured EIRP(dBm/BW)} = \text{level at the measurement antenna connector(dBm/BW)} - \text{Measurement antenna Gain(dBi)} + \text{Path loss(dB)}$$

$$\text{Path loss(dB)} = 20 \cdot \log(\text{Frequency in MHz}) + 20 \cdot \log(\text{Measurement distance m}) - 27.56$$

For the Conducted power calculation, the antenna gain values were used each for SISO, SISO-Dual and MIMO configuration.

Note: The following table lists only the beam pole gain values required for conversion to conducted power based on the EIRP worst-case scenario. These gains represent the peak antenna gain for each configuration and channel.

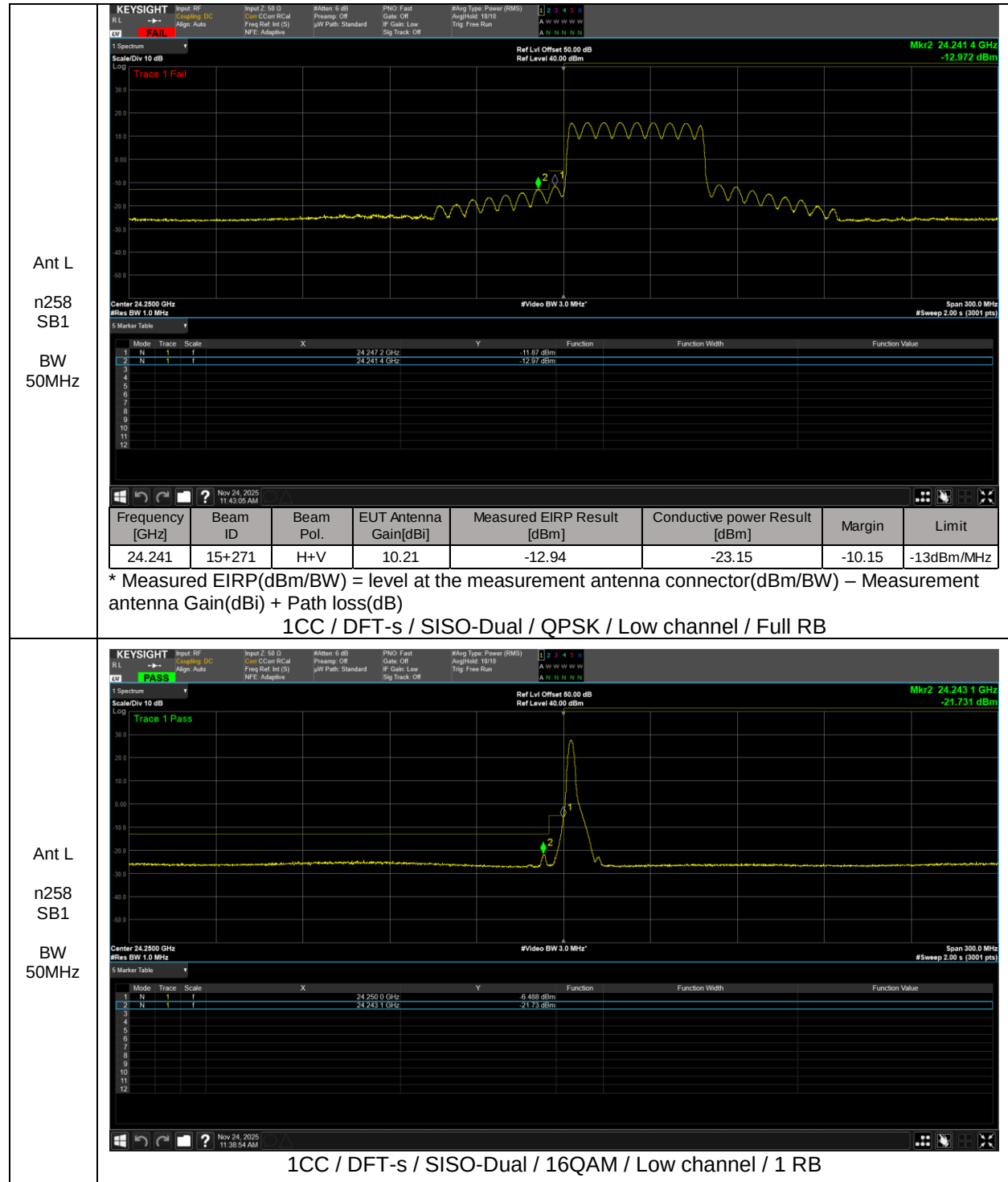
| Antenna | Channel | Beam Pol                 | Gain (dBi) |
|---------|---------|--------------------------|------------|
| n258    | Low     | SISO (H)                 | 9.42       |
|         |         | SISO-Dual / MIMO (H + V) | 10.21      |
|         | Mid     | SISO (H)                 | 8.75       |
|         |         | SISO-Dual / MIMO (H + V) | 10.79      |
|         | High    | SISO (H)                 | 8.54       |
|         |         | SISO-Dual / MIMO (H + V) | 10.36      |
| n261    | Low     | SISO (H)                 | 10.61      |
|         |         | SISO-Dual / MIMO (H + V) | 10.43      |
|         | High    | SISO (H)                 | 10.98      |
|         |         | SISO-Dual / MIMO (H + V) | 11.15      |
| n260    | Low     | SISO (V)                 | 10.28      |
|         |         | SISO-Dual / MIMO (H + V) | 9.01       |
|         | High    | SISO (V)                 | 8.48       |
|         |         | SISO-Dual / MIMO (H + V) | 9.33       |

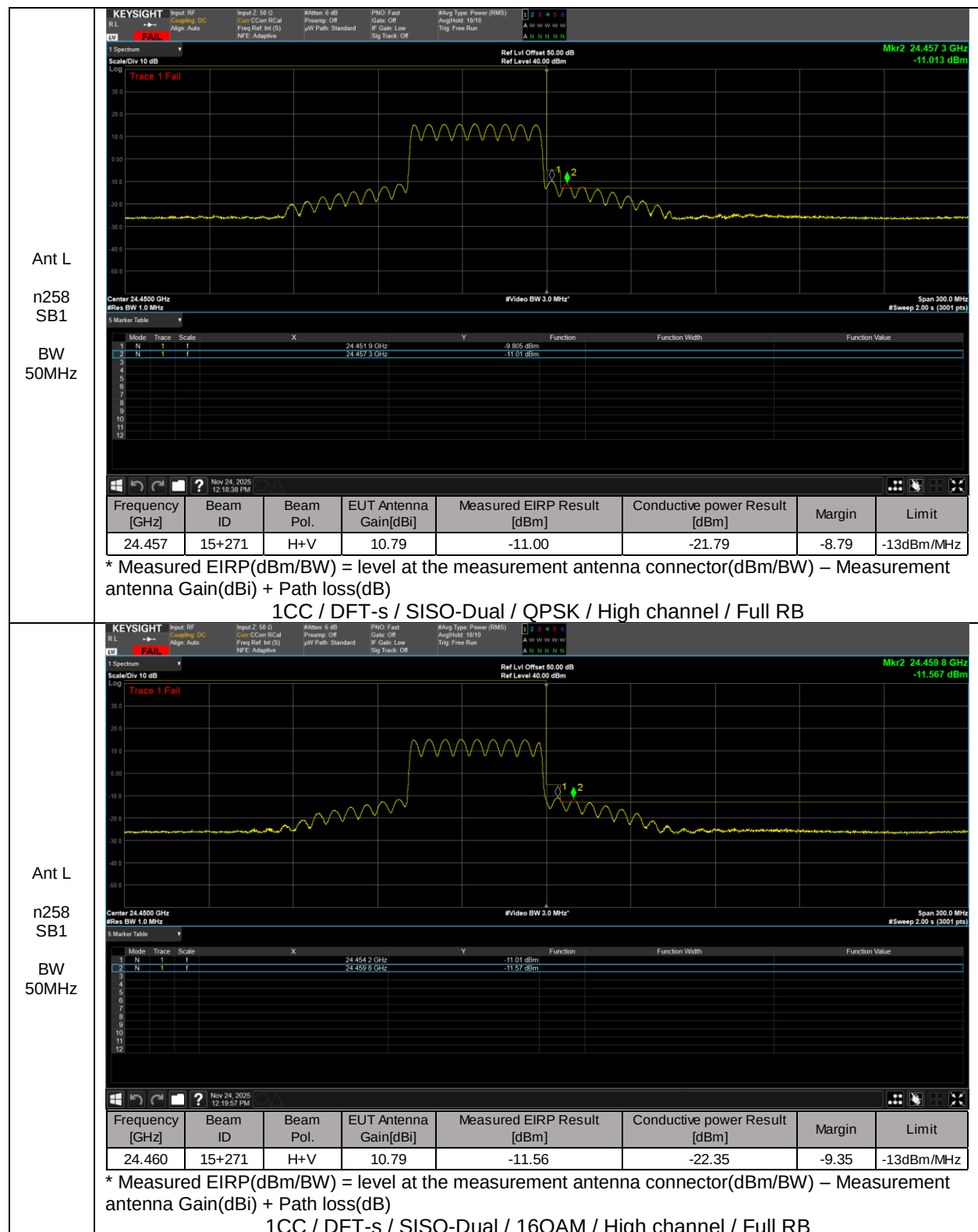
## RESULTS

See the following pages.

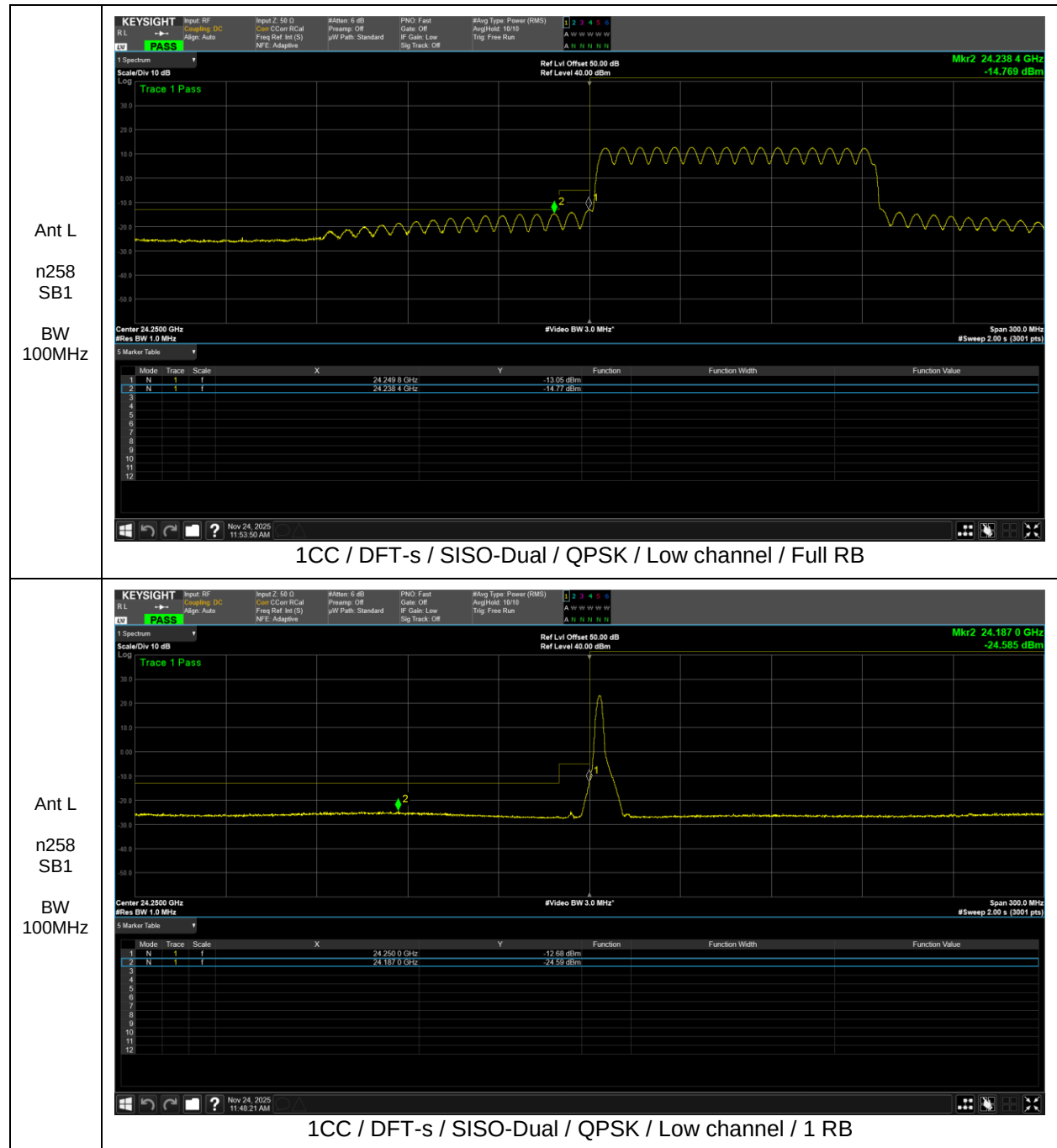
### 8.3.1. BAND EDGE WORST CASE RESULT

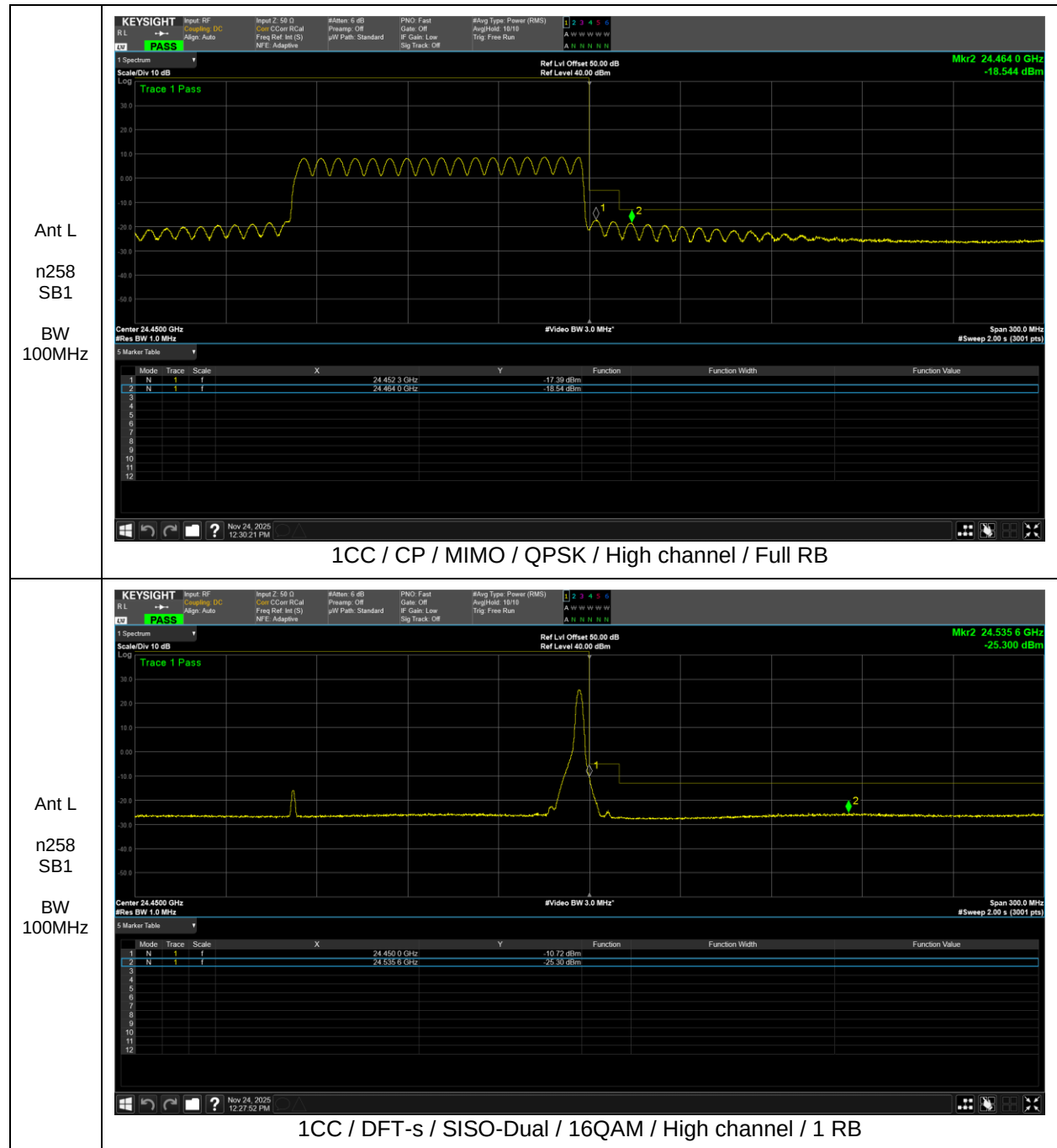
#### Antenna 1 / Ant L / Band n258 SB1

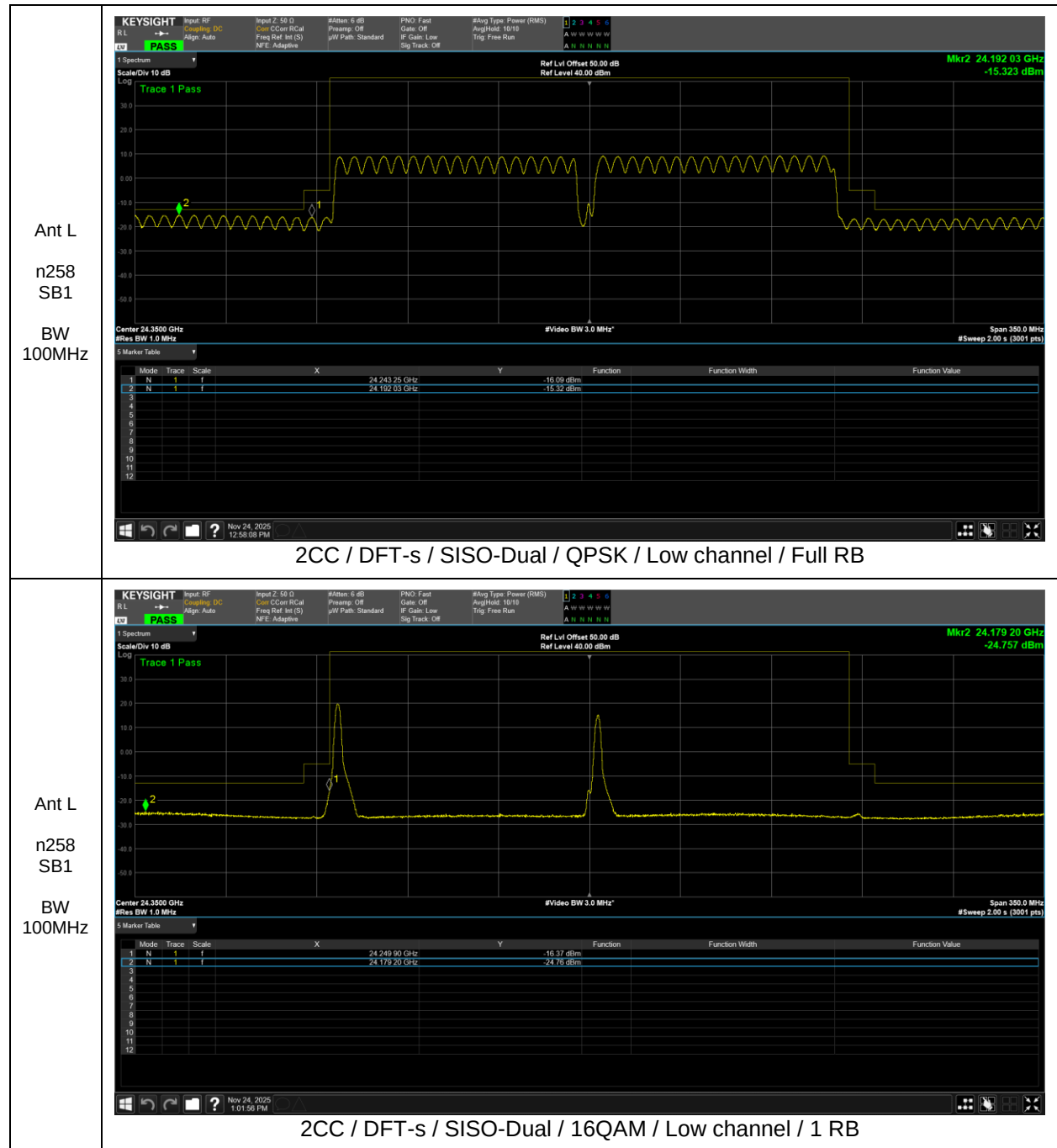


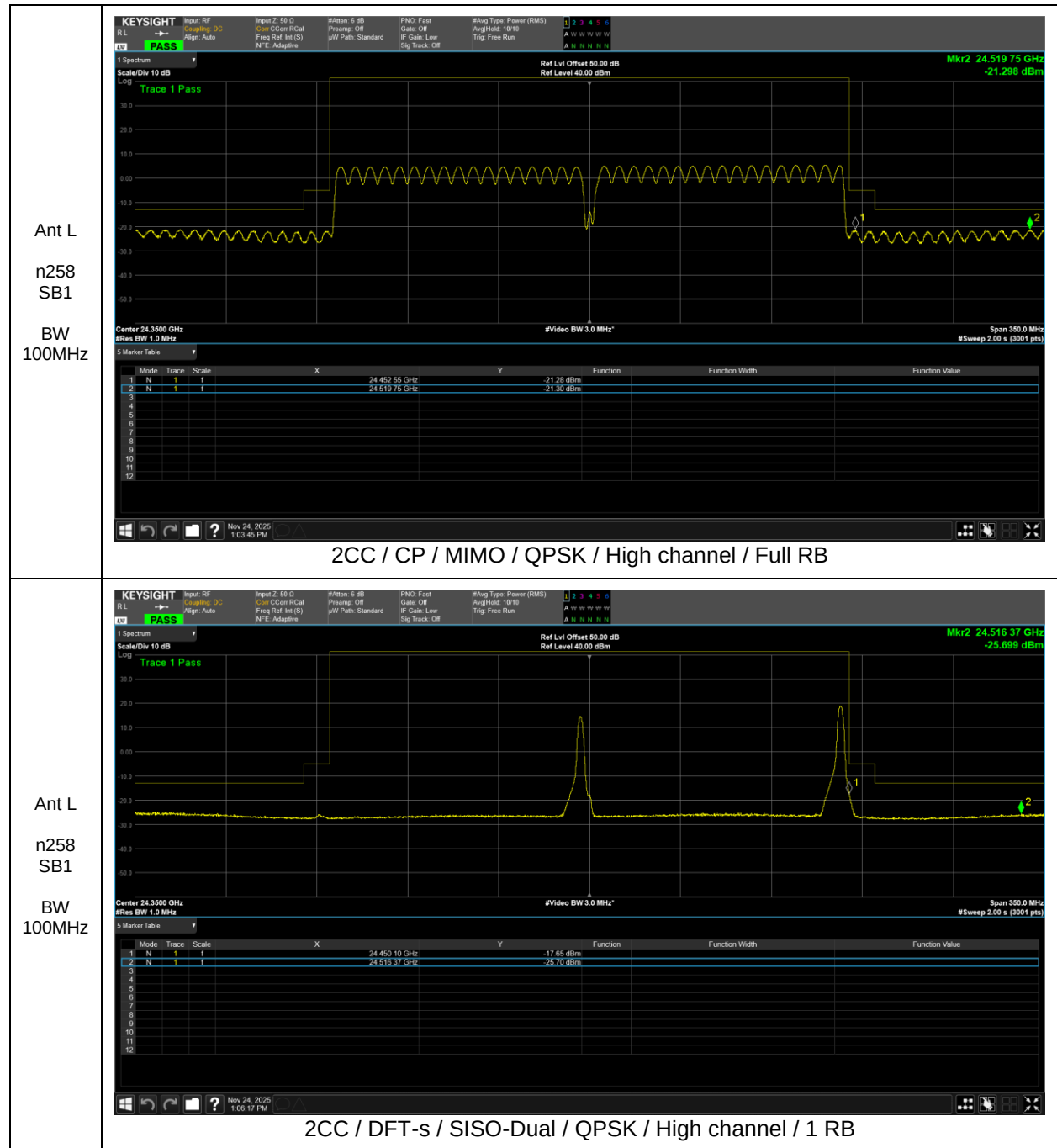












**Antenna 1 / Ant L / Band n258 SB2**

