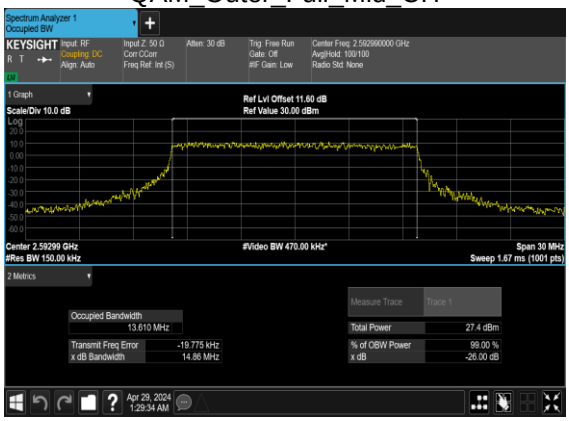
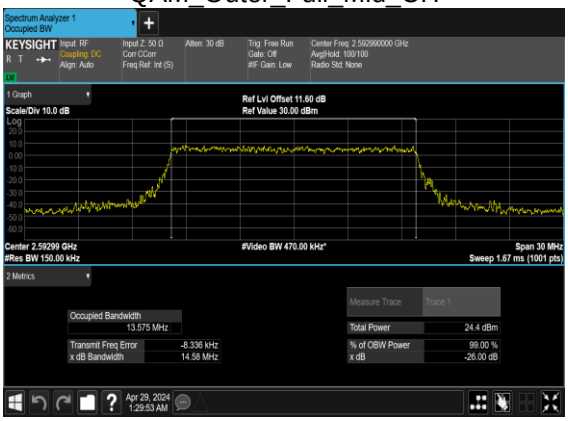
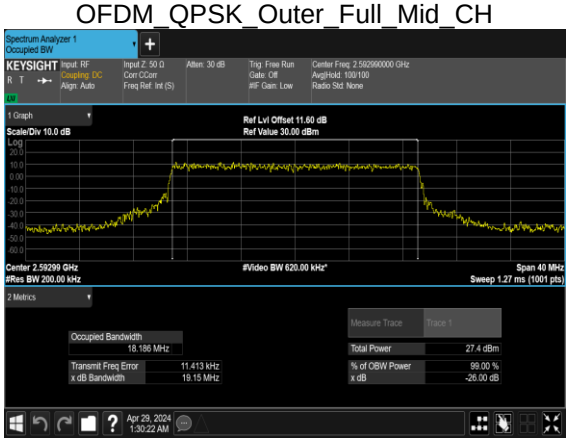
N41(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



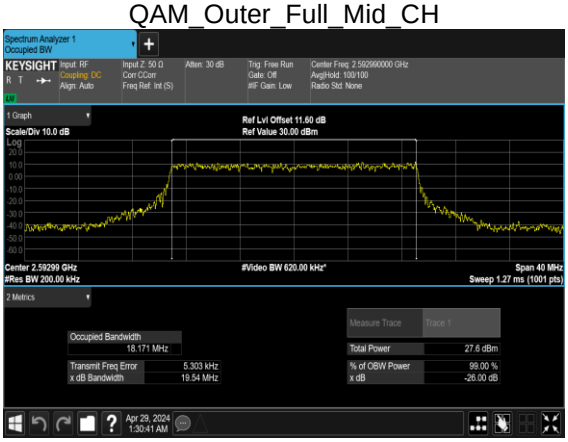

N41(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



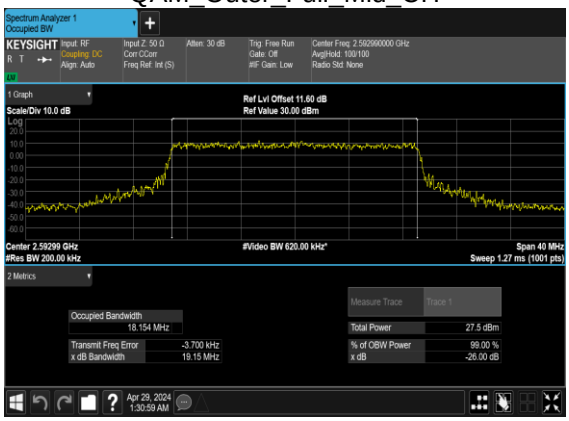

N41(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



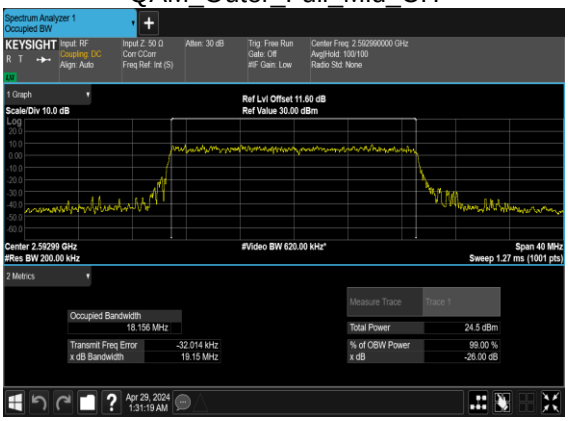

N41(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



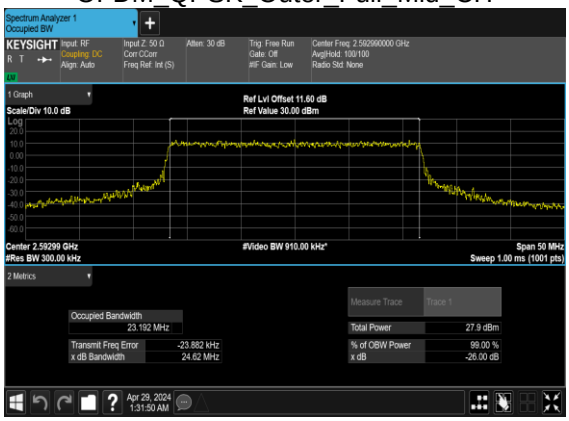

N41(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



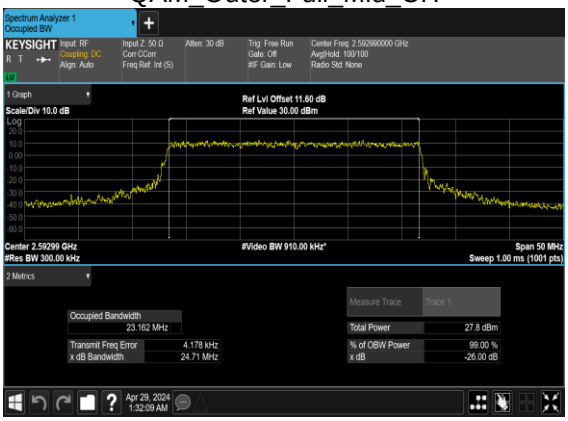

N41(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



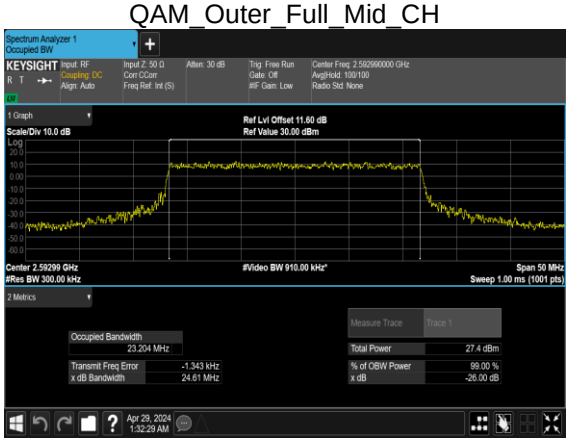
N41(25M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



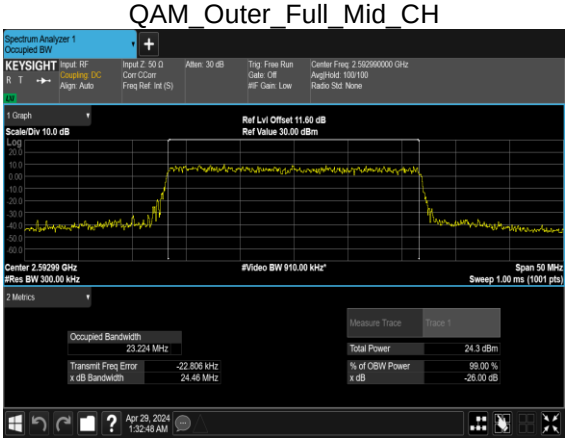

N41(25M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



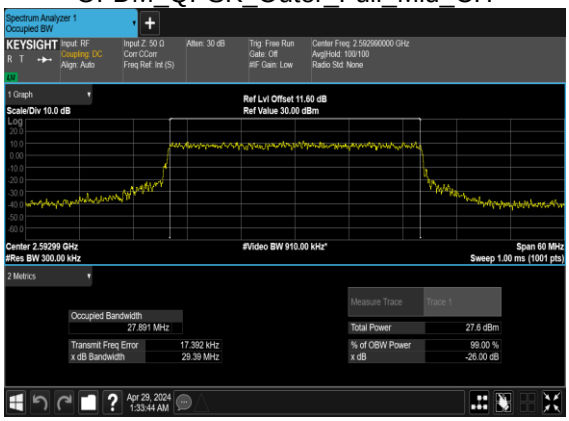

N41(25M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



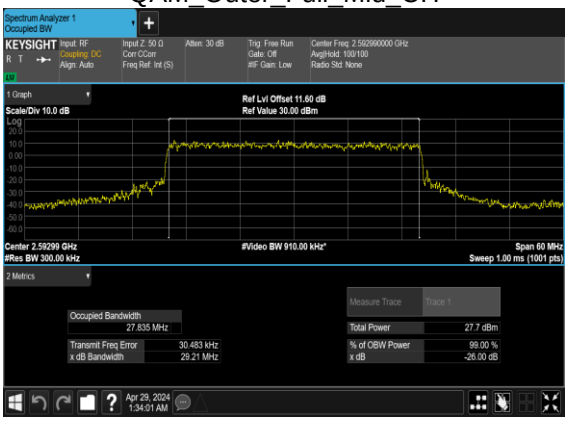

N41(25M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



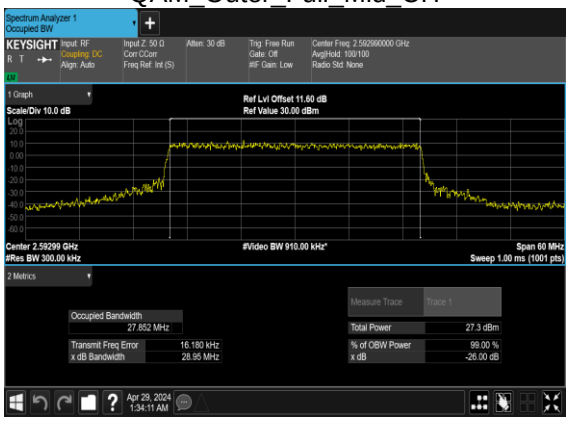

N41(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



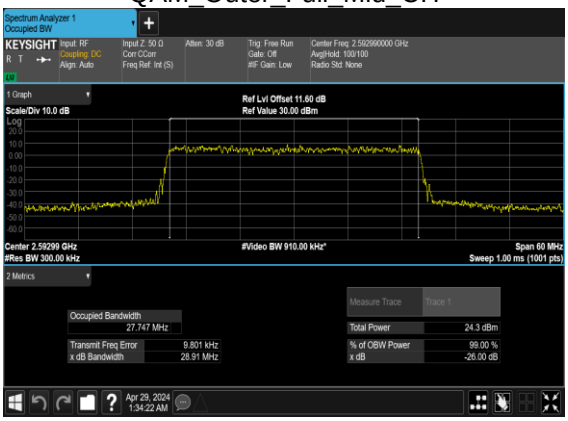

N41(30M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



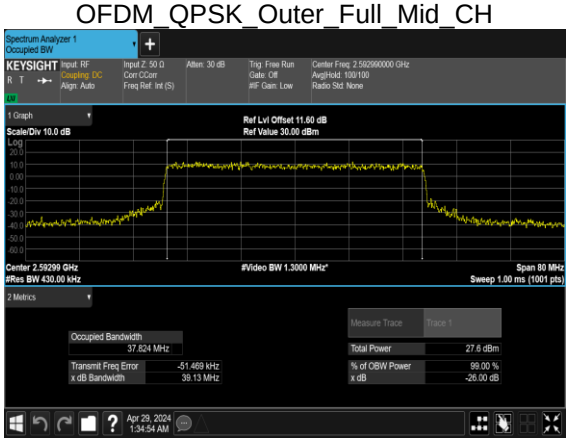
N41(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



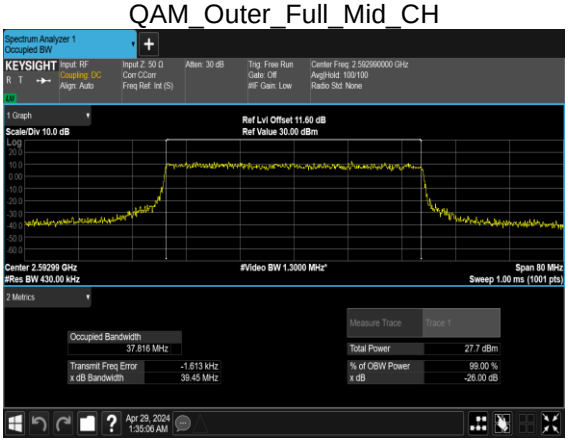

N41(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



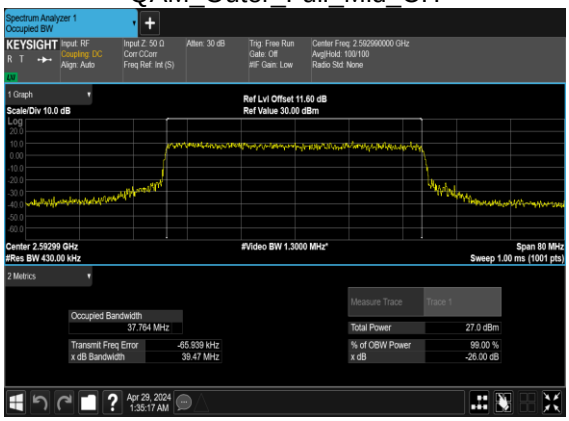

N41(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



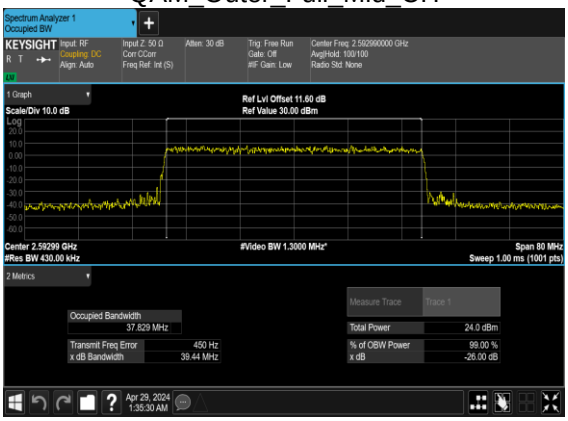

N41(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



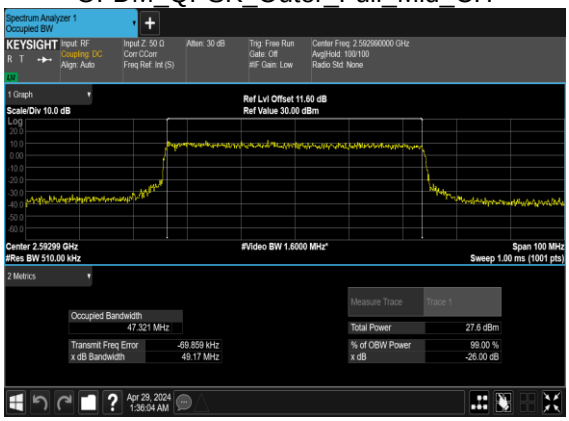

N41(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



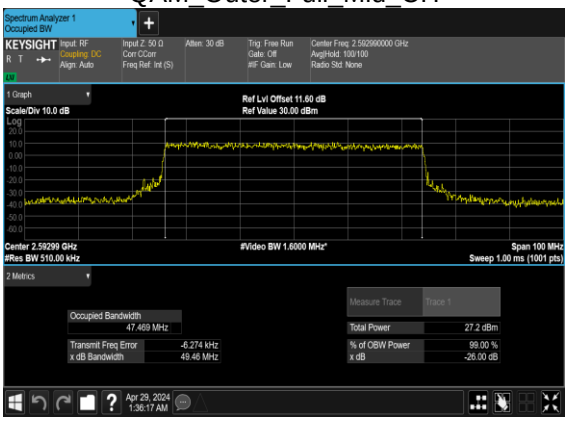

N41(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



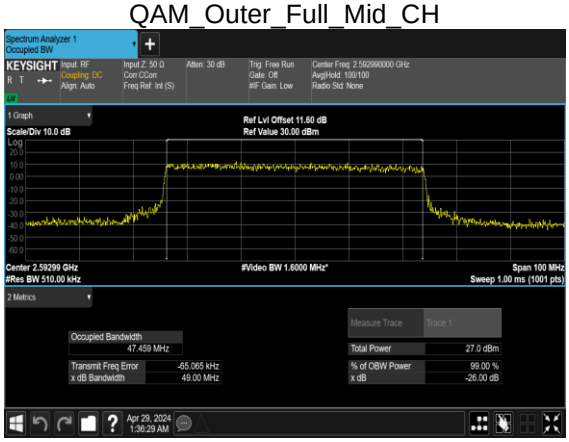
N41(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



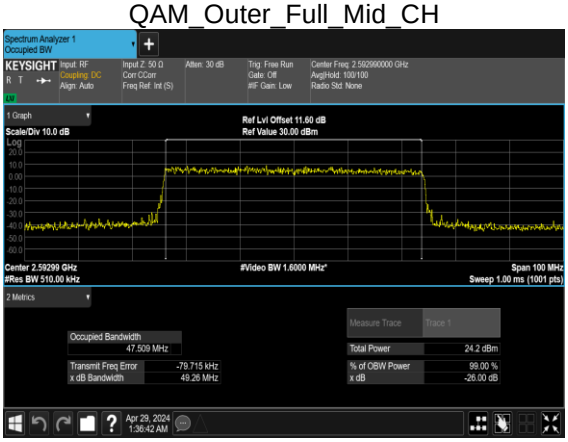

N41(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



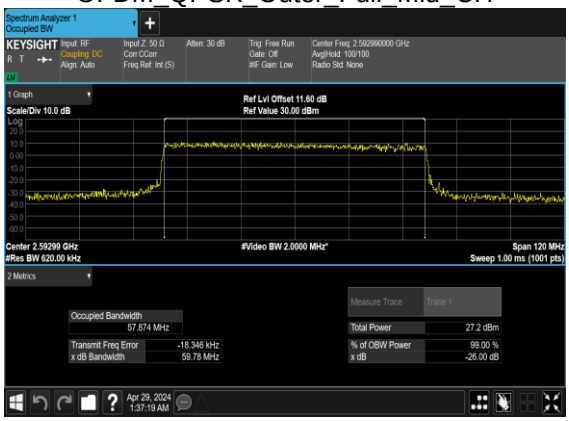

N41(50M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



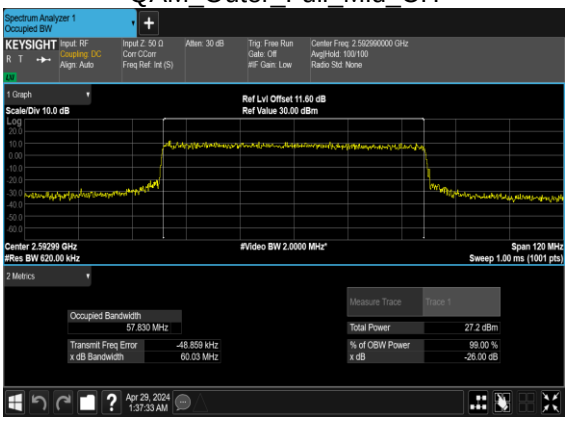

N41(50M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



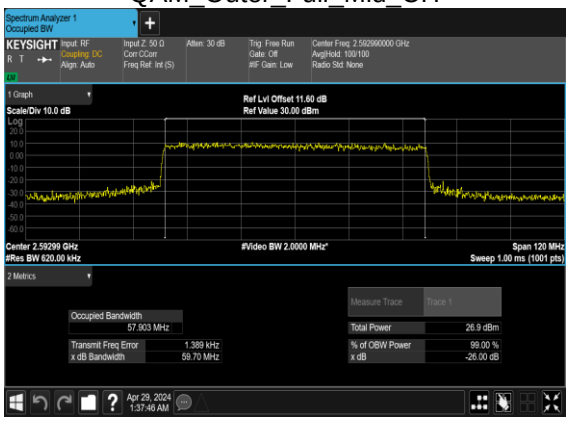

N41(60M)_CP-OFDM_QPSK_Outer_Full_Mid_CH




N41(60M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

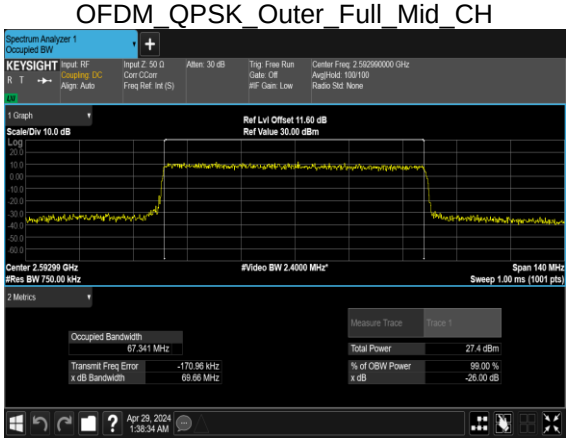


N41(60M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

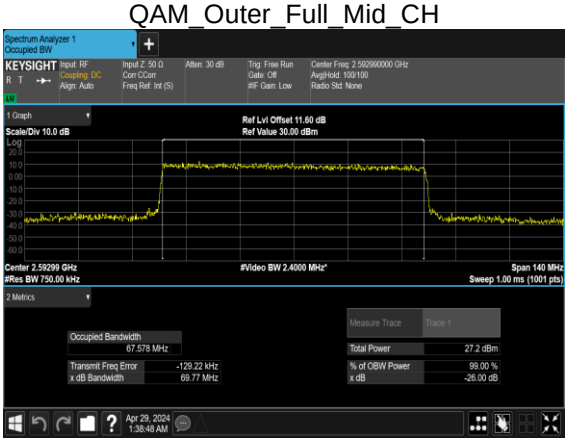



N41(60M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

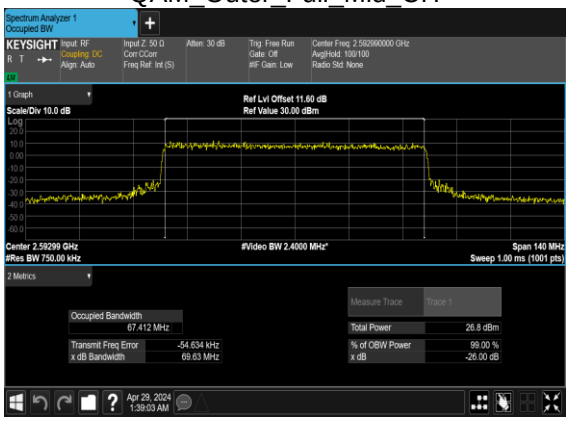
N41(70M)_CP-OFDM_QPSK_Outer_Full_Mid_CH




N41(70M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

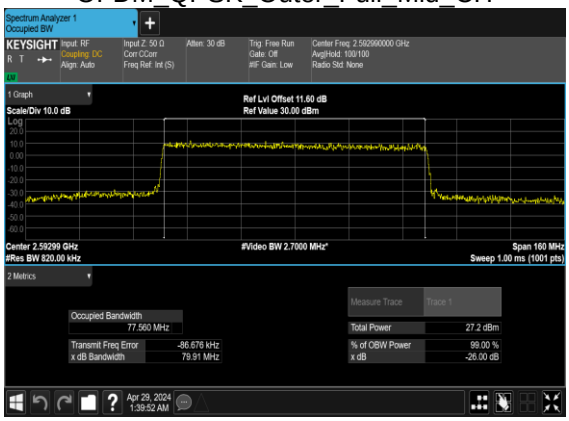



N41(70M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

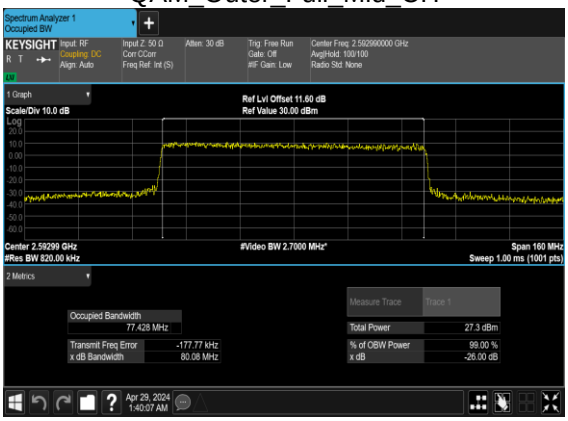



N41(70M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

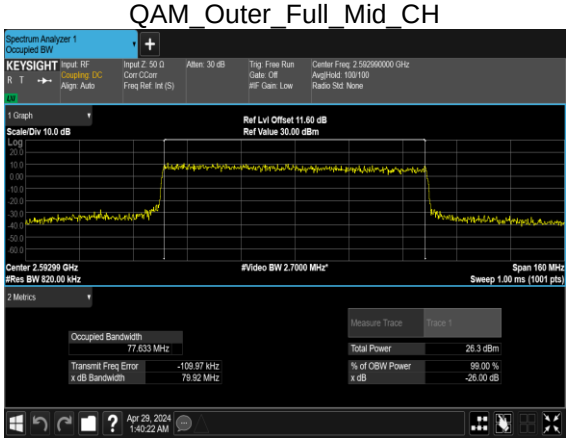
N41(80M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



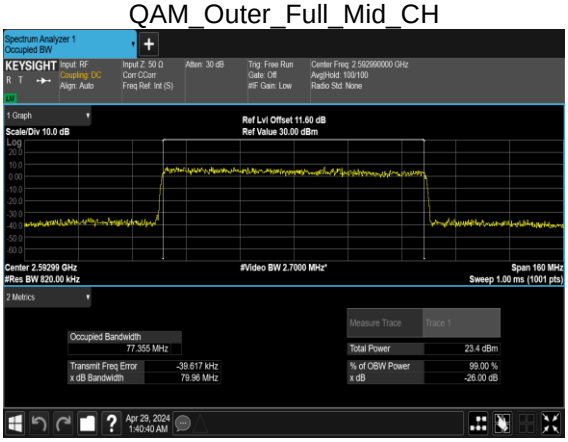

N41(80M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



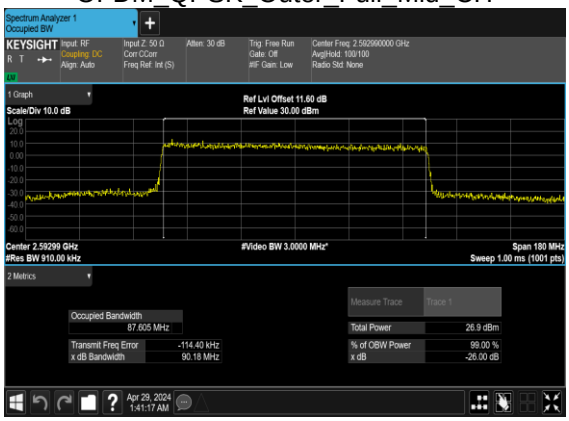

N41(80M)_CP-OFDM_64QAM_Outer_Full_Mid_CH




N41(80M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



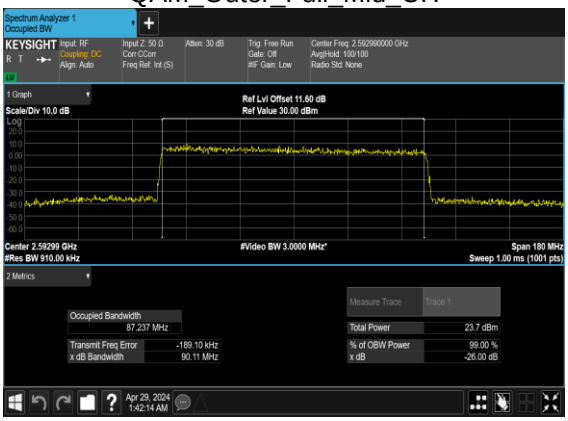

N41(90M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



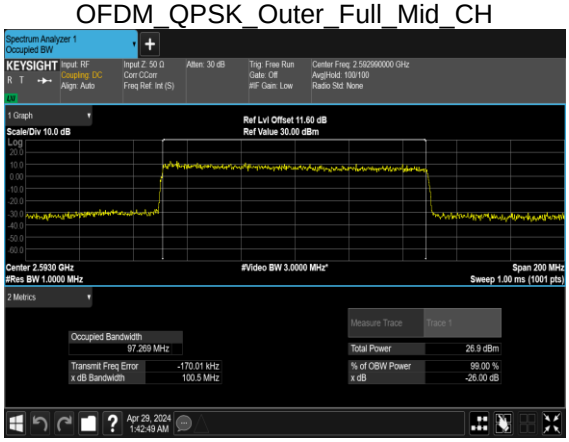

N41(90M)_CP-OFDM_16QAM_Outer_Full_Mid_CH

N41(90M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

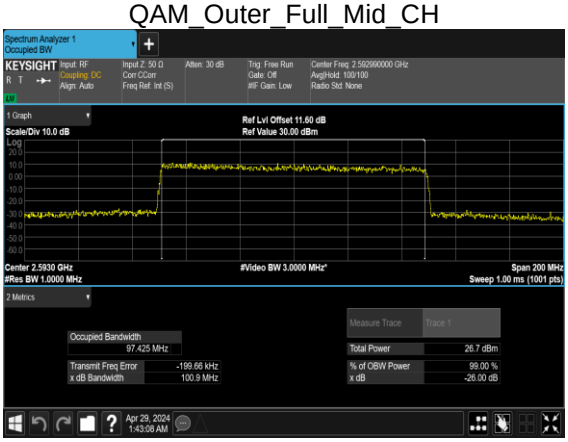
N41(90M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



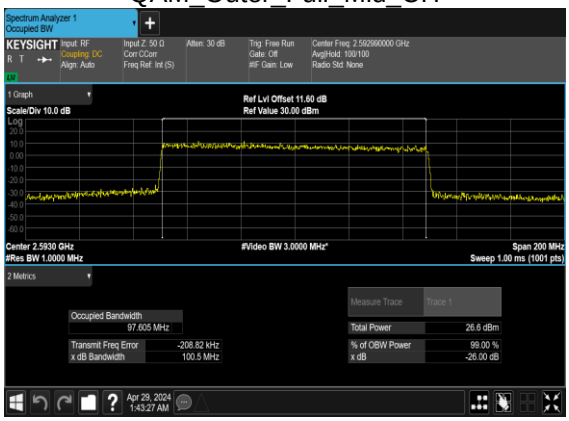

N41(100M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



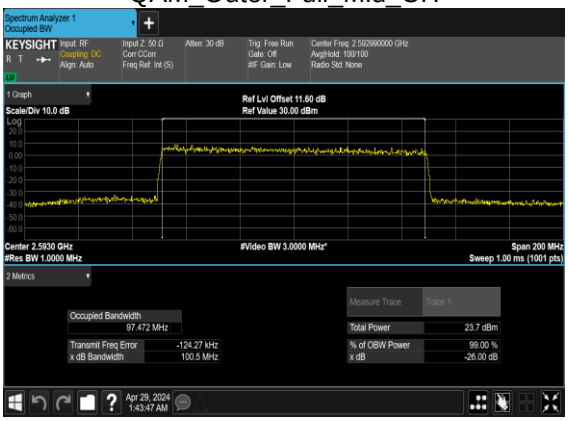

N41(100M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH




N41(100M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH




N41(100M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



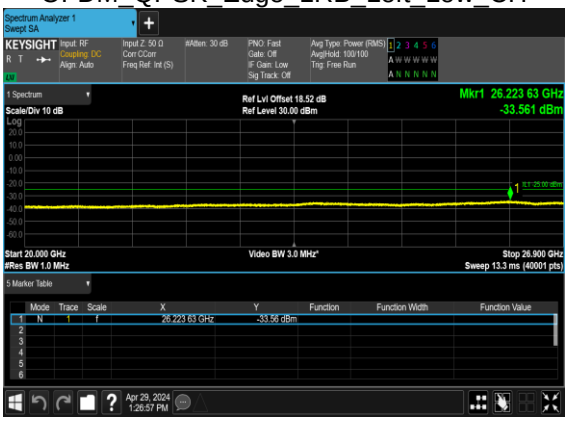
## Conducted Spurious Emissions

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn | Freq (MHz) | Modulation | RB | Result | Verdict |
|---|---|---|---|---|---|---|---|---|
| **41** | 30 | 10 | 500202 | 2501.01 | CP-OFDM QPSK | 1@0 | see graph | **---** |
| **41** | 30 | 10 | 500202 | 2501.01 | CP-OFDM QPSK | 1@0 | see graph | **PASS** |
| **41** | 30 | 10 | 500202 | 2501.01 | CP-OFDM QPSK | 1@0 | see graph | **PASS** |
| **41** | 30 | 10 | 518598 | 2592.99 | CP-OFDM QPSK | 1@0 | see graph | **---** |
| **41** | 30 | 10 | 518598 | 2592.99 | CP-OFDM QPSK | 1@0 | see graph | **PASS** |
| **41** | 30 | 10 | 518598 | 2592.99 | CP-OFDM QPSK | 1@0 | see graph | **PASS** |
| **41** | 30 | 10 | 537000 | 2685.0 | CP-OFDM QPSK | 1@0 | see graph | **---** |
| **41** | 30 | 10 | 537000 | 2685.0 | CP-OFDM QPSK | 1@0 | see graph | **PASS** |
| **41** | 30 | 10 | 537000 | 2685.0 | CP-OFDM QPSK | 1@0 | see graph | **PASS** |
| **41** | 30 | 50 | 504204 | 2521.02 | CP-OFDM QPSK | 1@0 | see graph | **---** |
| **41** | 30 | 50 | 504204 | 2521.02 | CP-OFDM QPSK | 1@0 | see graph | **PASS** |
| **41** | 30 | 50 | 504204 | 2521.02 | CP-OFDM QPSK | 1@0 | see graph | **PASS** |
| **41** | 30 | 50 | 518598 | 2592.99 | CP-OFDM QPSK | 1@0 | see graph | **---** |
| **41** | 30 | 50 | 518598 | 2592.99 | CP-OFDM QPSK | 1@0 | see graph | **PASS** |
| **41** | 30 | 50 | 518598 | 2592.99 | CP-OFDM QPSK | 1@0 | see graph | **PASS** |
| **41** | 30 | 50 | 532998 | 2664.99 | CP-OFDM QPSK | 1@0 | see graph | **---** |
| **41** | 30 | 50 | 532998 | 2664.99 | CP-OFDM QPSK | 1@0 | see graph | **PASS** |
| **41** | 30 | 50 | 532998 | 2664.99 | CP-OFDM QPSK | 1@0 | see graph | **PASS** |
| **41** | 30 | 100 | 509202 | 2546.01 | CP-OFDM QPSK | 1@0 | see graph | **---** |
| **41** | 30 | 100 | 509202 | 2546.01 | CP-OFDM QPSK | 1@0 | see graph | **PASS** |
| **41** | 30 | 100 | 509202 | 2546.01 | CP-OFDM QPSK | 1@0 | see graph | **PASS** |
| **41** | 30 | 100 | 518598 | 2592.99 | CP-OFDM QPSK | 1@0 | see graph | **---** |

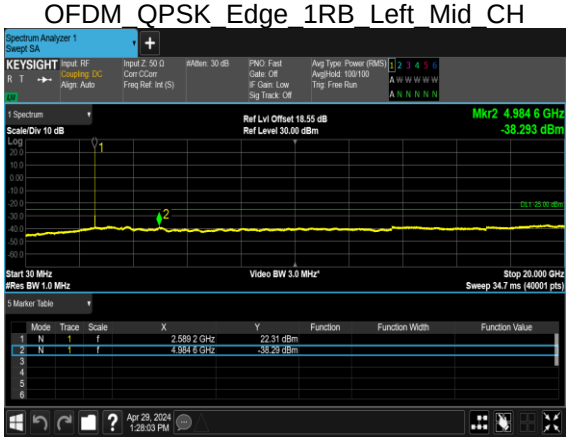
| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **41** | 30 | 100 | 518598 | 2592.99 | CP-OFDM QPSK | 1@0 | see graph | **PASS** |
| **41** | 30 | 100 | 518598 | 2592.99 | CP-OFDM QPSK | 1@0 | see graph | **PASS** |
| **41** | 30 | 100 | 528000 | 2640.0 | CP-OFDM QPSK | 1@0 | see graph | **---** |
| **41** | 30 | 100 | 528000 | 2640.0 | CP-OFDM QPSK | 1@0 | see graph | **PASS** |
| **41** | 30 | 100 | 528000 | 2640.0 | CP-OFDM QPSK | 1@0 | see graph | **PASS** |

N41(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH

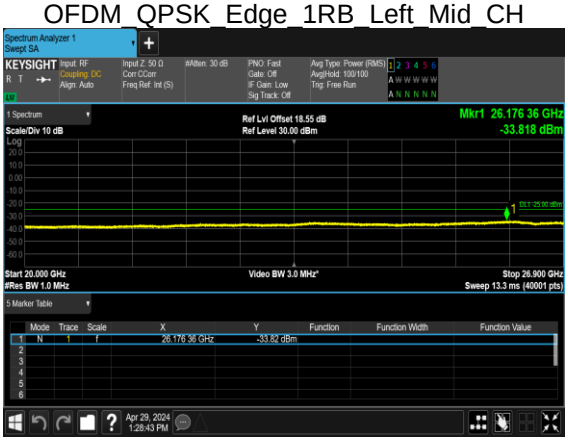
N41(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



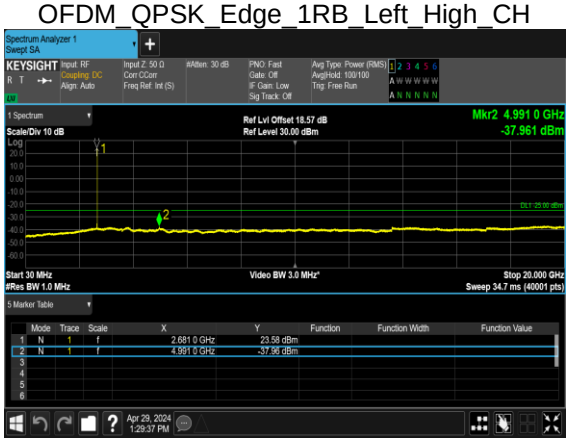

N41(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



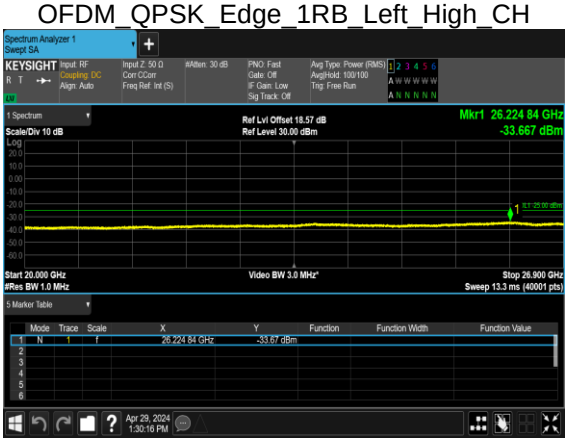

N41(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH




N41(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH

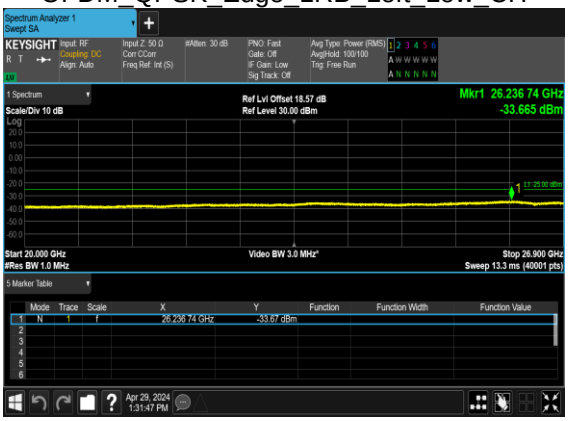



N41(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH

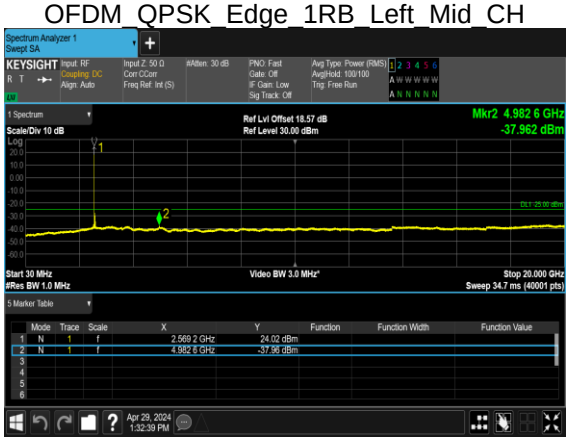


N41(50M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH

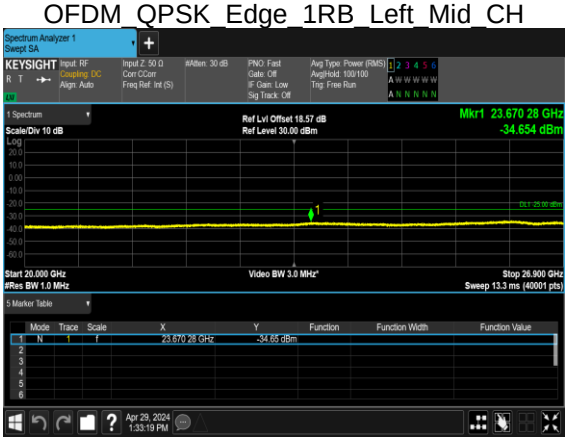
N41(50M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



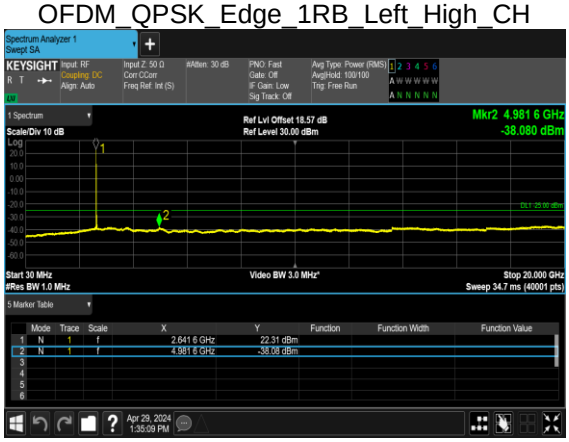

N41(50M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



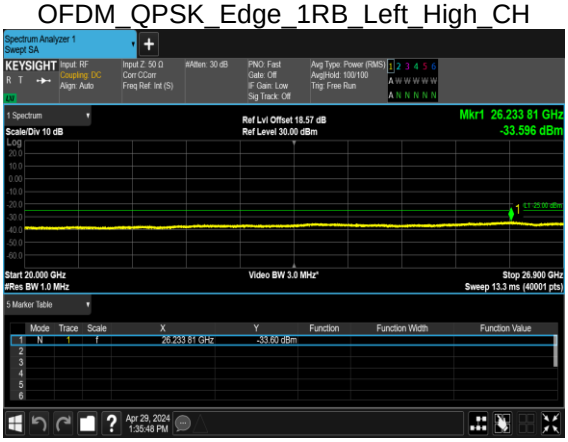

N41(50M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH




N41(50M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH

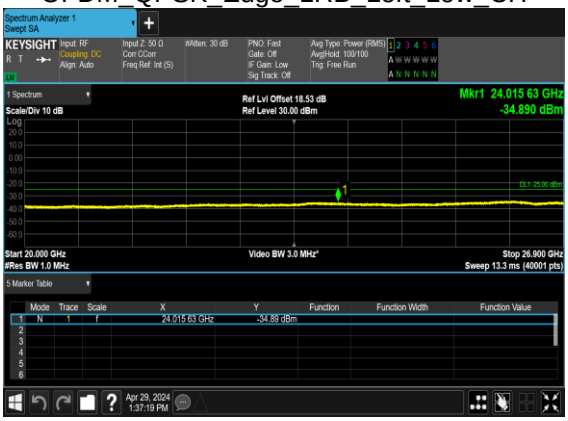



N41(50M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH

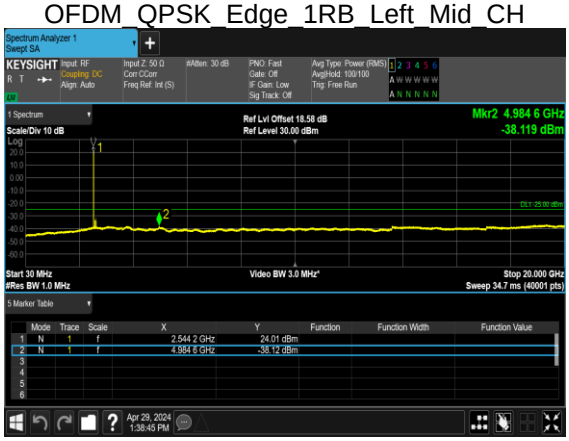


N41(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH

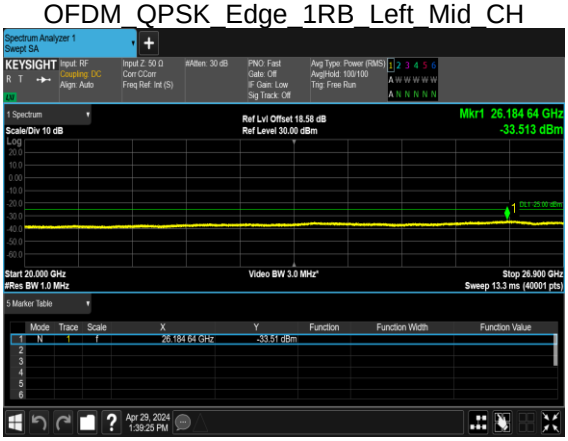
N41(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



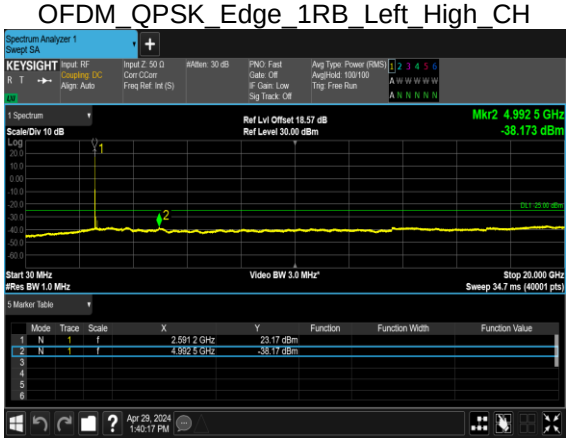

N41(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



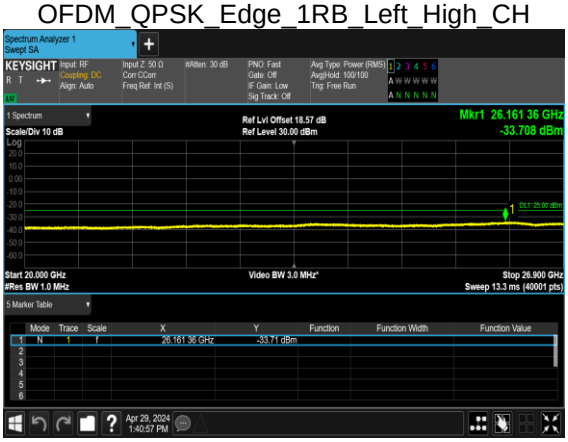

N41(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH




N41(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



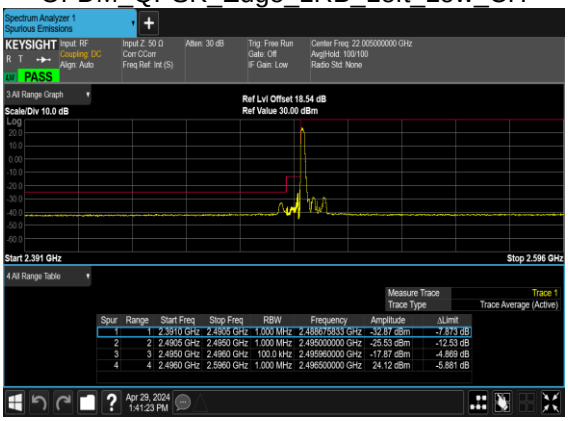

N41(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



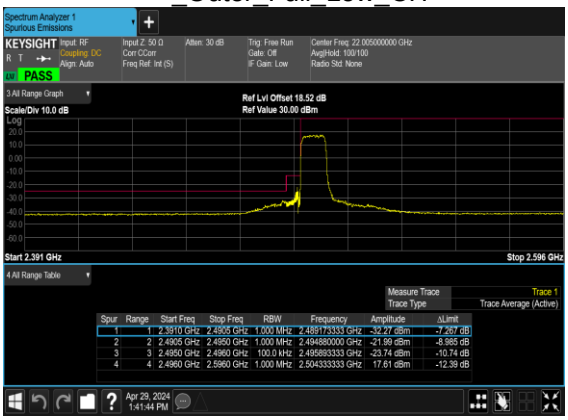
## Conducted Band Edge

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn | Freq (MHz) | Modulation | RB | Result | Verdict |
|---|---|---|---|---|---|---|---|---|
| **41** | 30 | 10 | 500202 | 2501.01 | CP-OFDM QPSK | 1@0 | see graph | **PASS** |
| **41** | 30 | 10 | 500202 | 2501.01 | CP-OFDM QPSK | 24@0 | see graph | **PASS** |
| **41** | 30 | 10 | 537000 | 2685.0 | CP-OFDM QPSK | 1@23 | see graph | **PASS** |
| **41** | 30 | 10 | 537000 | 2685.0 | CP-OFDM QPSK | 24@0 | see graph | **PASS** |
| **41** | 30 | 50 | 504204 | 2521.02 | CP-OFDM QPSK | 1@0 | see graph | **PASS** |
| **41** | 30 | 50 | 504204 | 2521.02 | CP-OFDM QPSK | 133@0 | see graph | **PASS** |
| **41** | 30 | 50 | 532998 | 2664.99 | CP-OFDM QPSK | 1@132 | see graph | **PASS** |
| **41** | 30 | 50 | 532998 | 2664.99 | CP-OFDM QPSK | 133@0 | see graph | **PASS** |
| **41** | 30 | 100 | 509202 | 2546.01 | CP-OFDM QPSK | 1@0 | see graph | **PASS** |
| **41** | 30 | 100 | 509202 | 2546.01 | CP-OFDM QPSK | 273@0 | see graph | **PASS** |
| **41** | 30 | 100 | 528000 | 2640.0 | CP-OFDM QPSK | 1@272 | see graph | **PASS** |
| **41** | 30 | 100 | 528000 | 2640.0 | CP-OFDM QPSK | 273@0 | see graph | **PASS** |

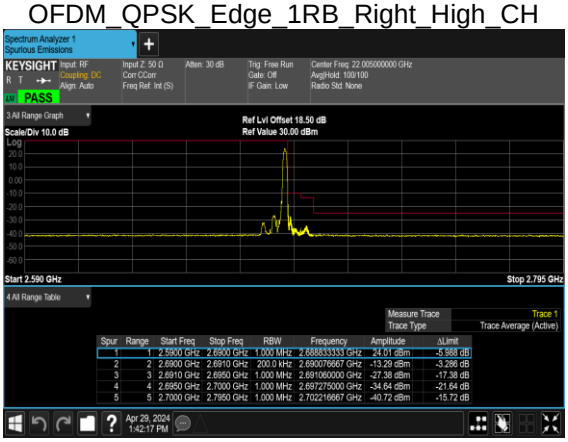
N41(10M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



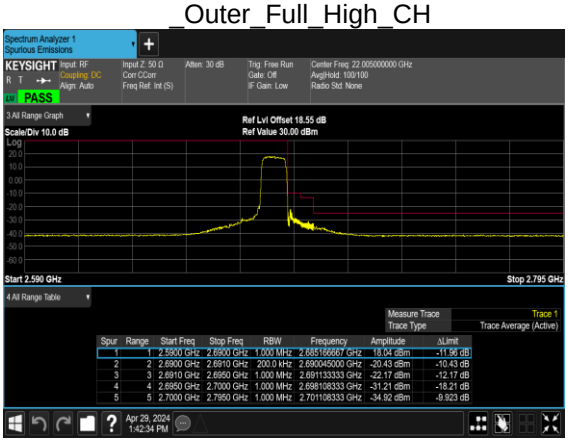

N41(10M)_CP-OFDM_QPSK_Outer_Full_Low_CH



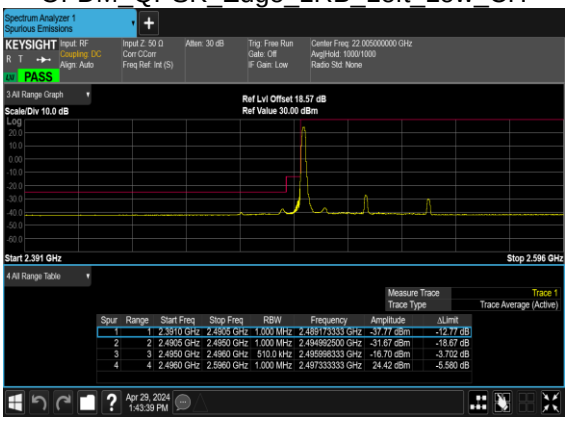

N41(10M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH



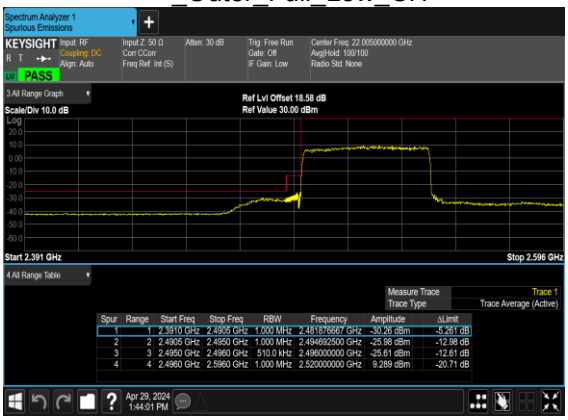

N41(10M)_CP-OFDM_QPSK_Outer_Full_High_CH



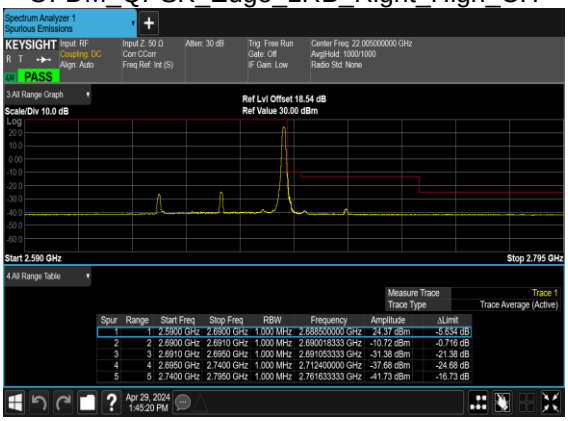

N41(50M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



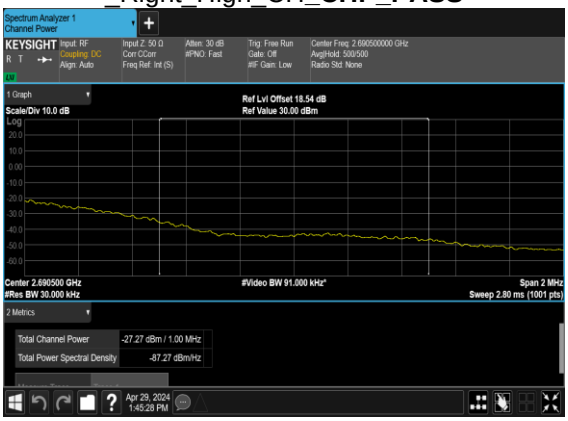

N41(50M)_CP-OFDM_QPSK_Outer_Full_Low_CH



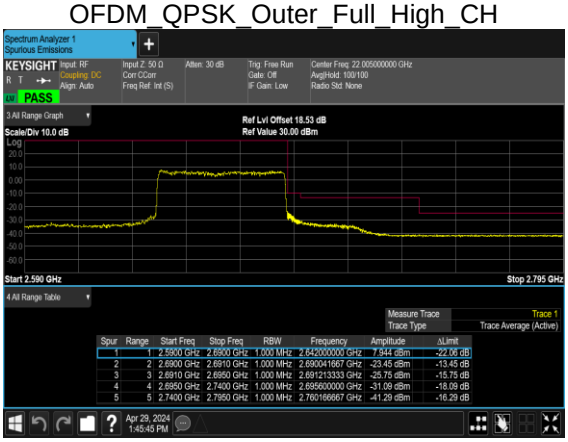
N41(50M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH



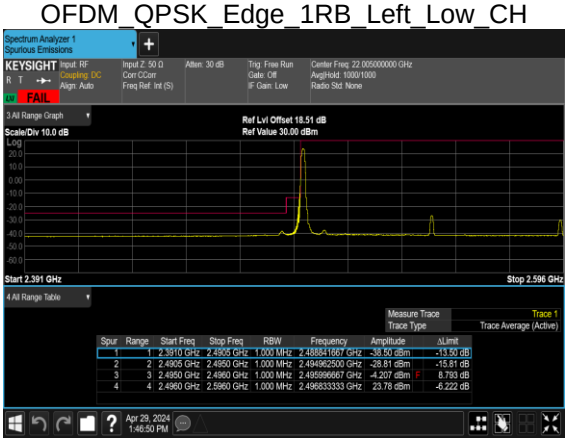

N41(50M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH_**CHP_PASS**



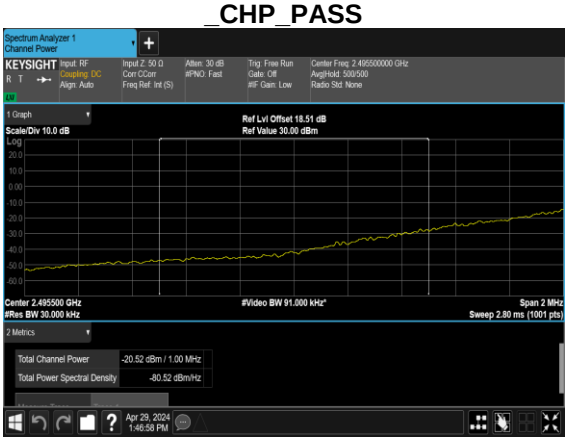

N41(50M)_CP-OFDM_QPSK_Outer_Full_High_CH



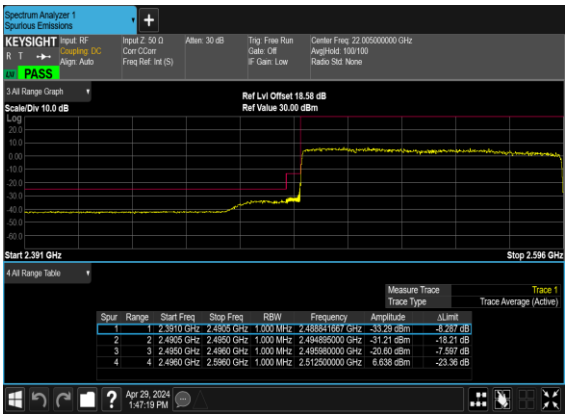

N41(100M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH




N41(100M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH_**CHP_PASS**

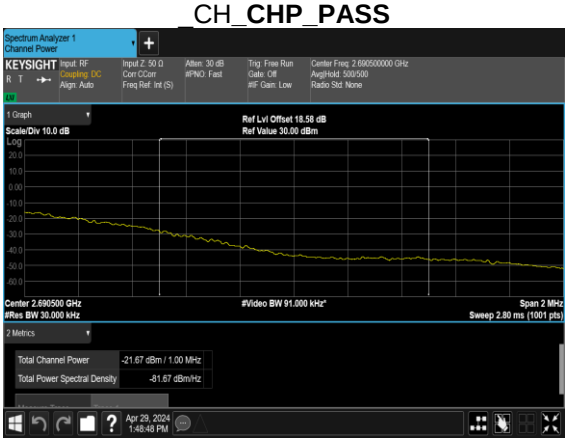



N41(100M)_CP-OFDM_QPSK_Outer_Full_Low_CH

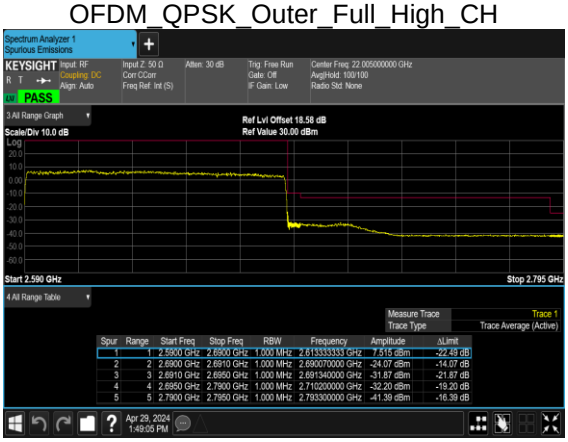


N41(100M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH

N41(100M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH_**CHP_PASS**




N41(100M)_CP-OFDM_QPSK_Outer_Full_High_CH



# Appendix B. Test Results of Radiated Test

## Radiated Spurious Emission

| Test Engineer : | Qingsheng He | Temperature : | 22~25℃ |
|---|---|---|---|
| | | Relative Humidity : | 48~52% |

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

| N41_UL MIMO / NR 100MHz / QPSK(ANT2+3) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 5089.00 | -59.32 | -25 | -34.32 | -79.18 | -64.88 | 7.14 | 12.70 | H |
| | 7633.50 | -53.73 | -25 | -28.73 | -78.24 | -57.03 | 8.30 | 11.60 | H |
| | 10178.00 | -49.69 | -25 | -24.69 | -78.76 | -51.21 | 10.48 | 12.00 | H |
| | 5089.00 | -59.08 | -25 | -34.08 | -79.12 | -64.64 | 7.14 | 12.70 | V |
| | 7633.50 | -54.03 | -25 | -29.03 | -78.46 | -57.33 | 8.30 | 11.60 | V |
| | 10178.00 | -51.54 | -25 | -26.54 | -79.36 | -53.06 | 10.48 | 12.00 | V |

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