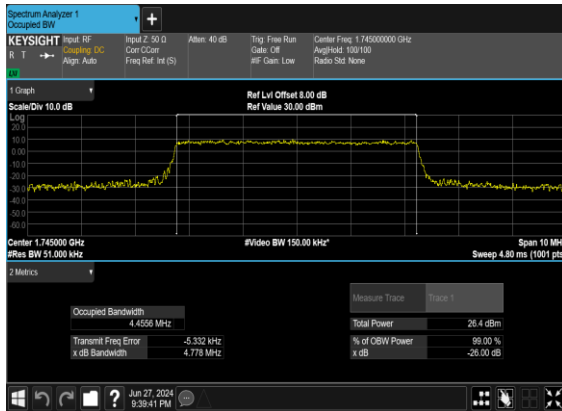
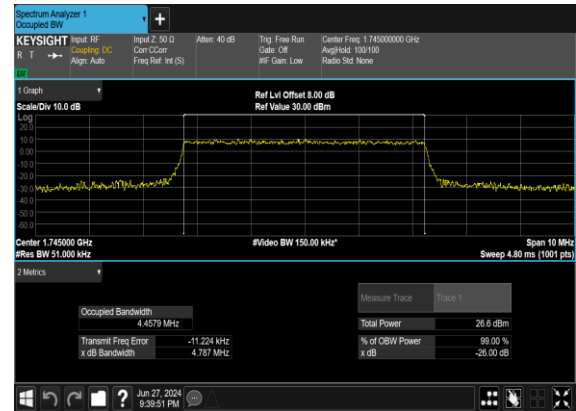


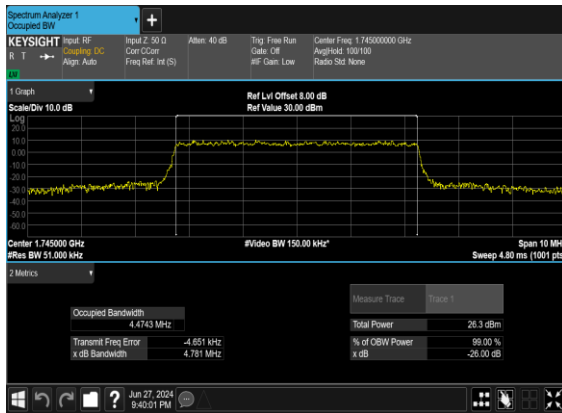
N66(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



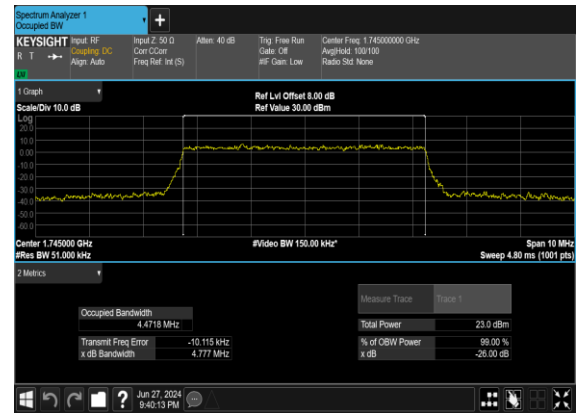
N66(5M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



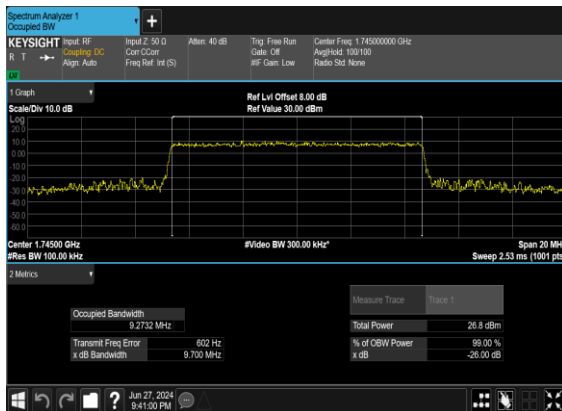
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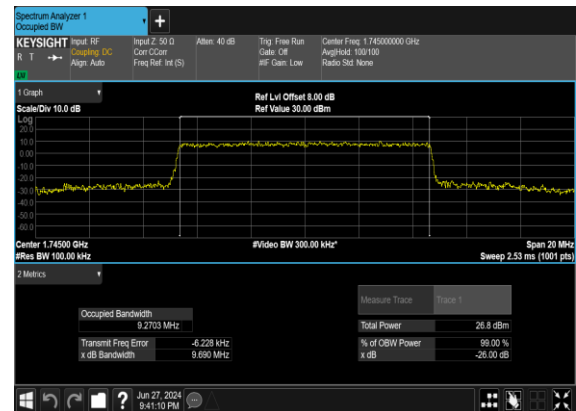
N66(5M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



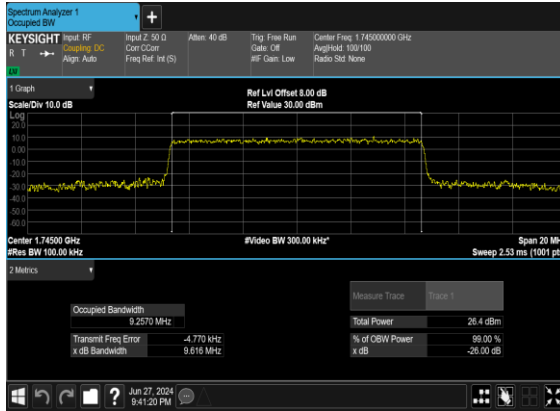
N66(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



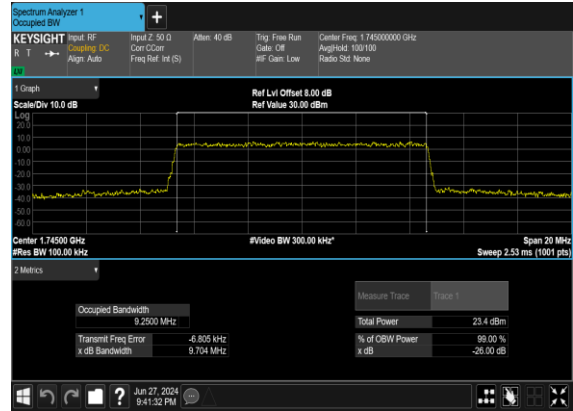
N66(10M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



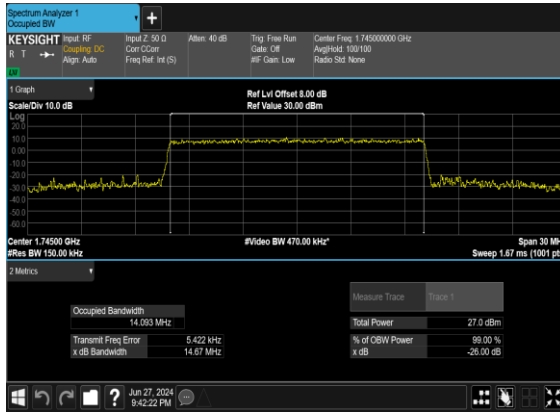
N66(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



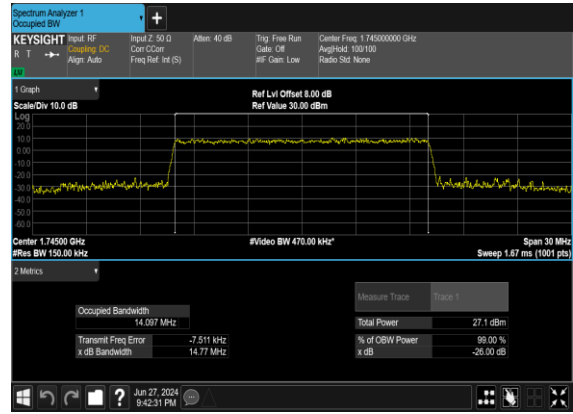
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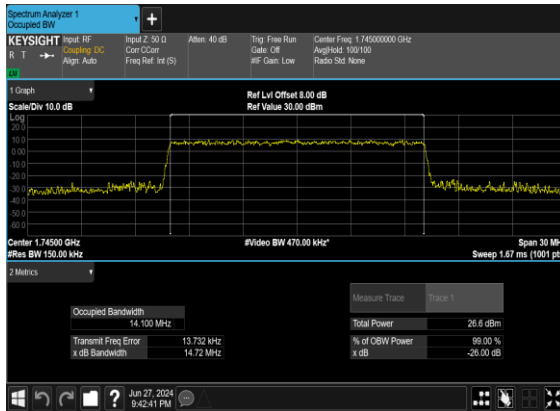
N66(15M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



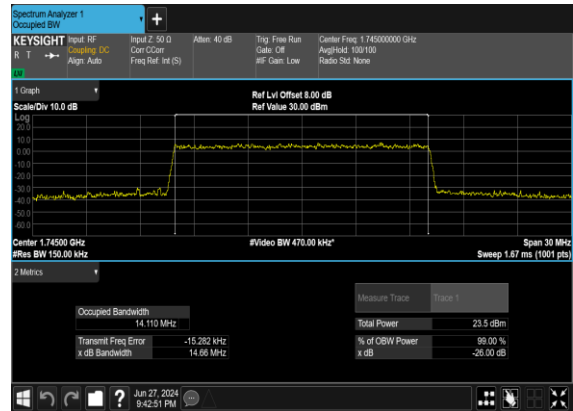
N66(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



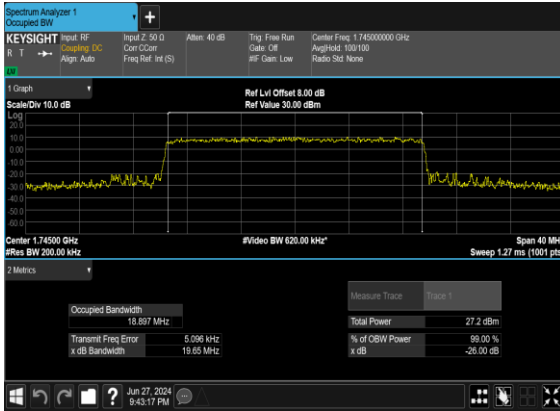
N66(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



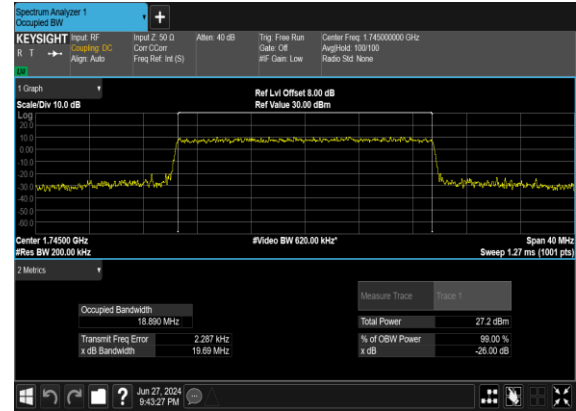
N66(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



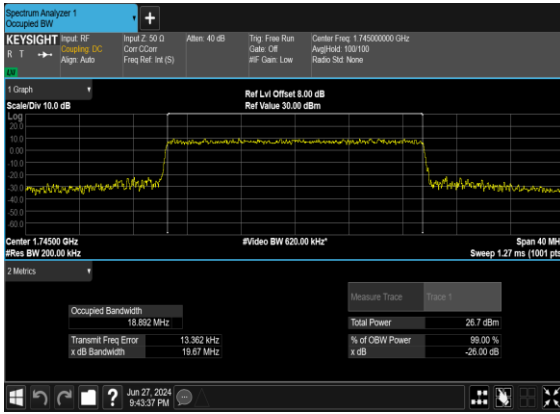
N66(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N66(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



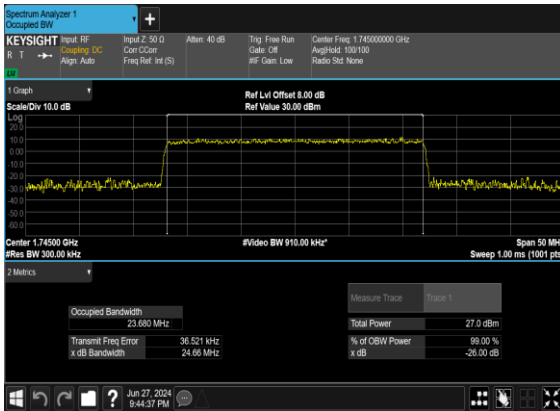
N66(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



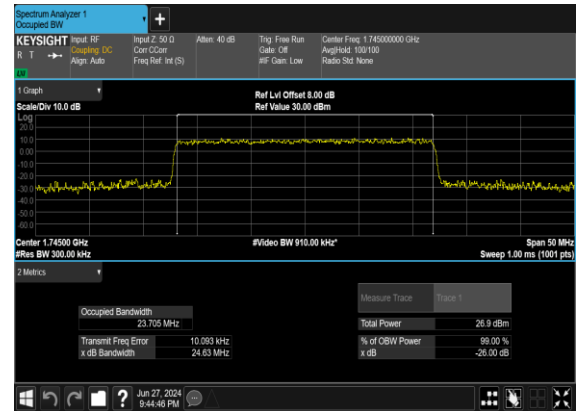
N66(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



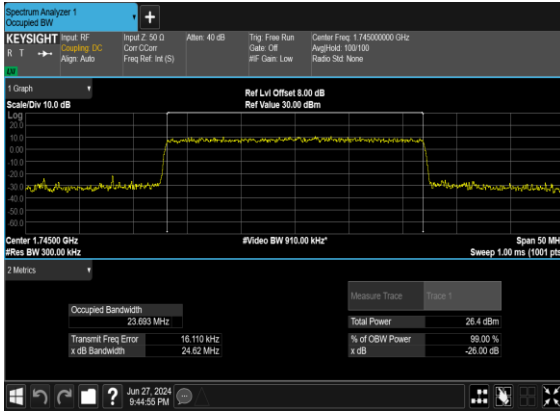
N66(25M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



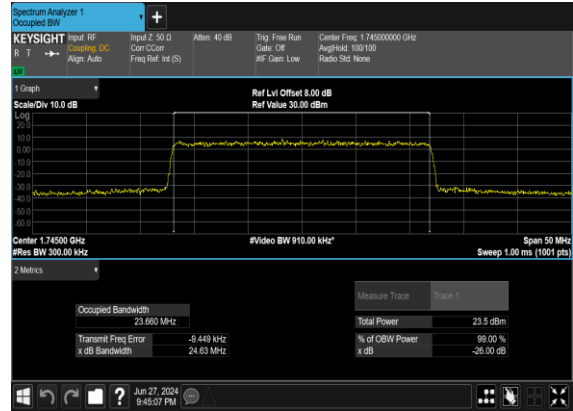
N66(25M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



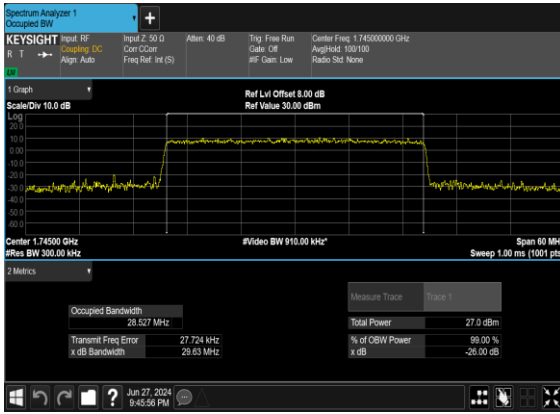
N66(25M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N66(25M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



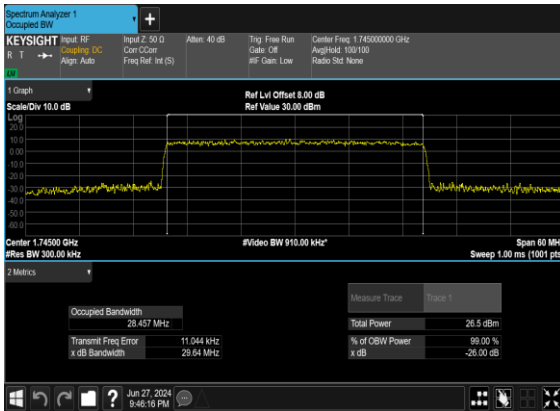
N66(30M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



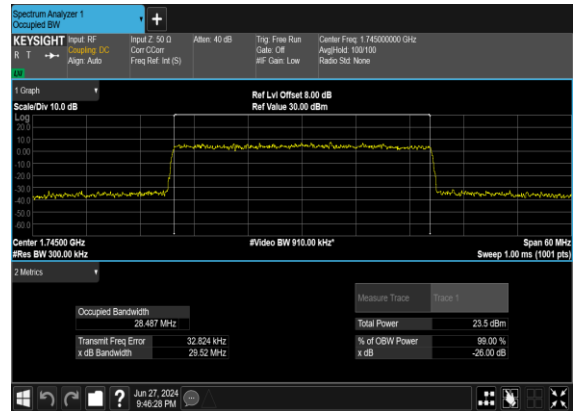
N66(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



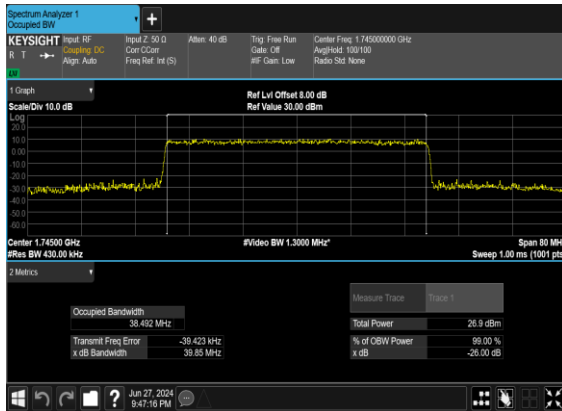
N66(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



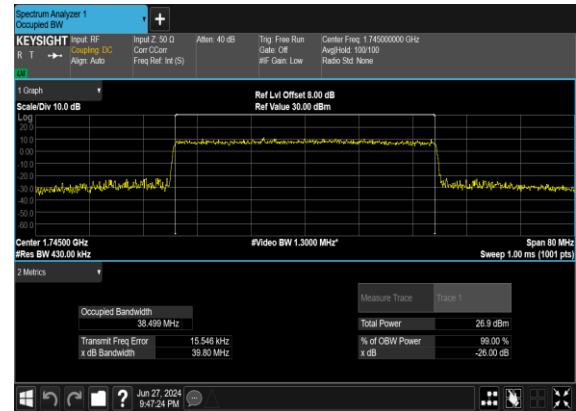
N66(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



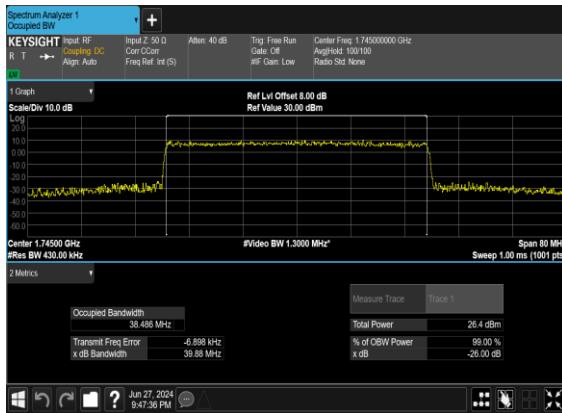
N66(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



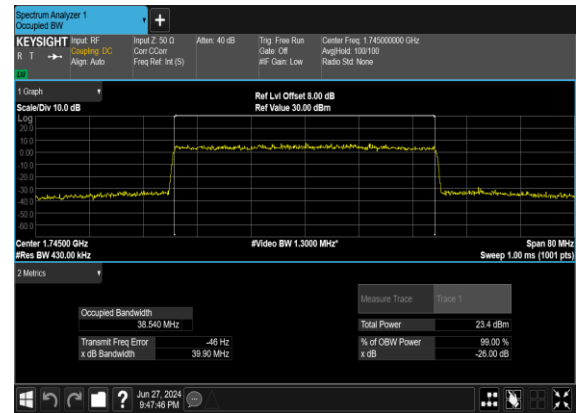
N66(40M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N66(40M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



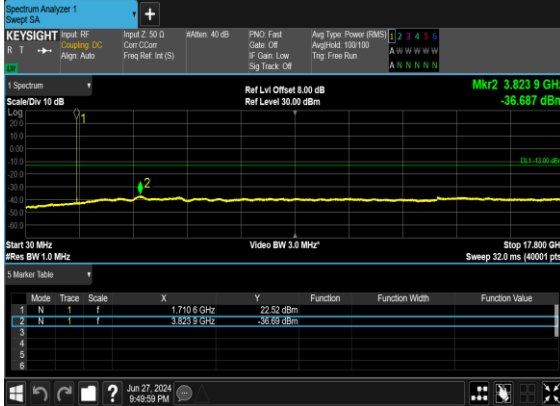
N66(40M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



Conducted Spurious Emissions

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn | Freq (MHz) | Modulation | RB | Result | Verdict |
|---------|-----------|-----------------|--------|------------|-----------------|-----|-----------|-------------|
| 66 | 15 | 5 | 342500 | 1712.5 | DFT-s-OFDM QPSK | 1@0 | see graph | --- |
| 66 | 15 | 5 | 342500 | 1712.5 | DFT-s-OFDM QPSK | 1@0 | see graph | PASS |
| 66 | 15 | 5 | 349000 | 1745.0 | DFT-s-OFDM QPSK | 1@0 | see graph | --- |
| 66 | 15 | 5 | 349000 | 1745.0 | DFT-s-OFDM QPSK | 1@0 | see graph | PASS |
| 66 | 15 | 5 | 355500 | 1777.5 | DFT-s-OFDM QPSK | 1@0 | see graph | --- |
| 66 | 15 | 5 | 355500 | 1777.5 | DFT-s-OFDM QPSK | 1@0 | see graph | PASS |
| 66 | 15 | 20 | 344000 | 1720.0 | DFT-s-OFDM QPSK | 1@0 | see graph | --- |
| 66 | 15 | 20 | 344000 | 1720.0 | DFT-s-OFDM QPSK | 1@0 | see graph | PASS |
| 66 | 15 | 20 | 349000 | 1745.0 | DFT-s-OFDM QPSK | 1@0 | see graph | --- |
| 66 | 15 | 20 | 349000 | 1745.0 | DFT-s-OFDM QPSK | 1@0 | see graph | PASS |
| 66 | 15 | 20 | 354000 | 1770.0 | DFT-s-OFDM QPSK | 1@0 | see graph | --- |
| 66 | 15 | 20 | 354000 | 1770.0 | DFT-s-OFDM QPSK | 1@0 | see graph | PASS |
| 66 | 15 | 40 | 346000 | 1730.0 | DFT-s-OFDM QPSK | 1@0 | see graph | --- |
| 66 | 15 | 40 | 346000 | 1730.0 | DFT-s-OFDM QPSK | 1@0 | see graph | PASS |
| 66 | 15 | 40 | 349000 | 1745.0 | DFT-s-OFDM QPSK | 1@0 | see graph | --- |
| 66 | 15 | 40 | 349000 | 1745.0 | DFT-s-OFDM QPSK | 1@0 | see graph | PASS |
| 66 | 15 | 40 | 352000 | 1760.0 | DFT-s-OFDM QPSK | 1@0 | see graph | --- |
| 66 | 15 | 40 | 352000 | 1760.0 | DFT-s-OFDM QPSK | 1@0 | see graph | PASS |

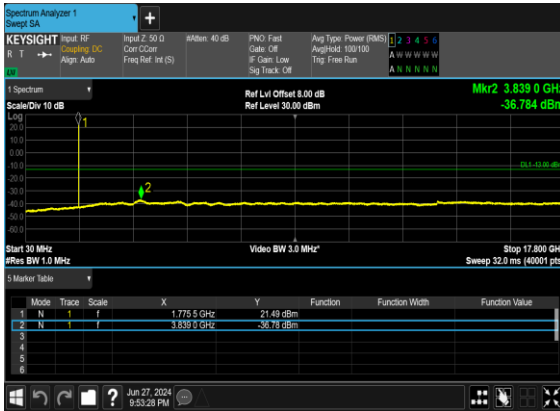
N66(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N66(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



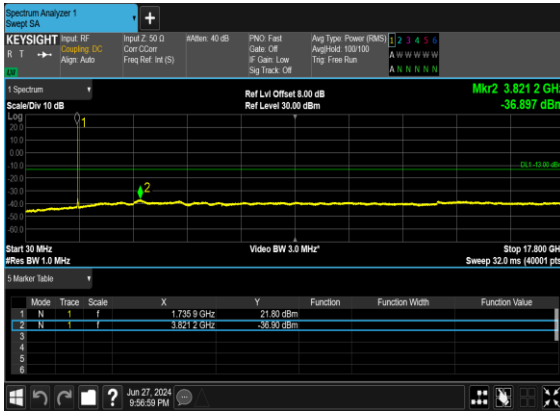
N66(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



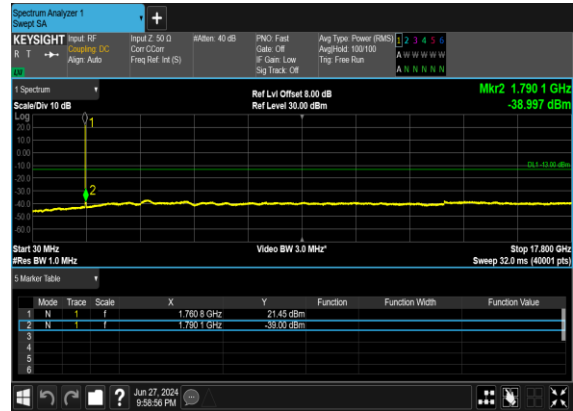
N66(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



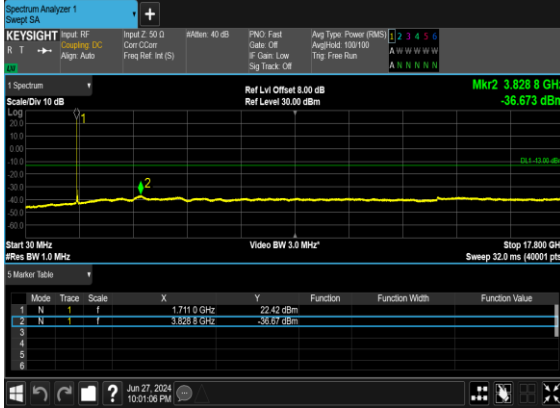
N66(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



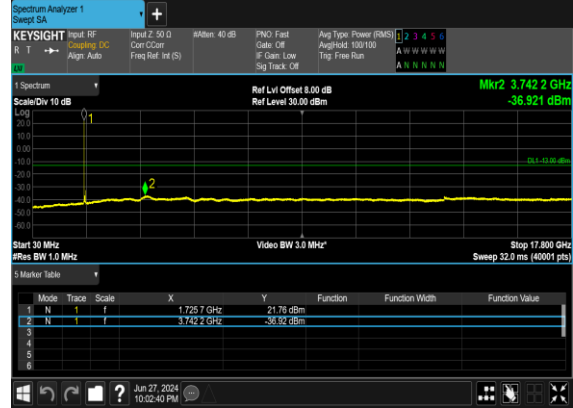
N66(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N66(40M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Low_CH



N66(40M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



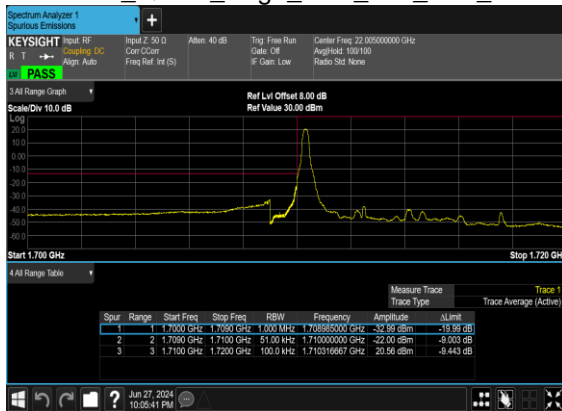
N66(40M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_High_CH



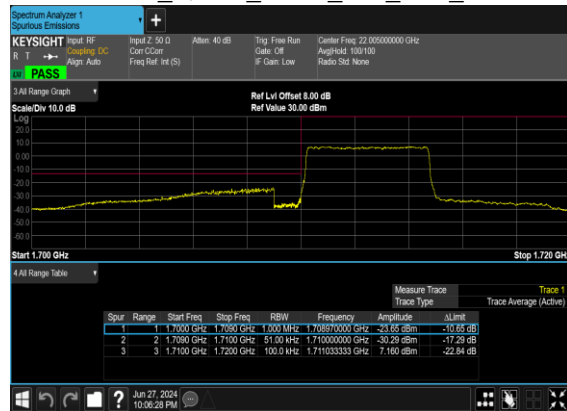
Conducted Band Edge

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn | Freq (MHz) | Modulation | RB | Result | Verdict |
|---------|-----------|-----------------|--------|------------|-----------------|-------|-----------|---------|
| 66 | 15 | 5 | 342500 | 1712.5 | DFT-s-OFDM QPSK | 1@0 | see graph | PASS |
| 66 | 15 | 5 | 342500 | 1712.5 | DFT-s-OFDM QPSK | 25@0 | see graph | PASS |
| 66 | 15 | 5 | 355500 | 1777.5 | DFT-s-OFDM QPSK | 1@24 | see graph | PASS |
| 66 | 15 | 5 | 355500 | 1777.5 | DFT-s-OFDM QPSK | 25@0 | see graph | PASS |
| 66 | 15 | 20 | 344000 | 1720.0 | DFT-s-OFDM QPSK | 1@0 | see graph | PASS |
| 66 | 15 | 20 | 344000 | 1720.0 | DFT-s-OFDM QPSK | 100@0 | see graph | PASS |
| 66 | 15 | 20 | 354000 | 1770.0 | DFT-s-OFDM QPSK | 1@105 | see graph | PASS |
| 66 | 15 | 20 | 354000 | 1770.0 | DFT-s-OFDM QPSK | 100@0 | see graph | PASS |
| 66 | 15 | 40 | 346000 | 1730.0 | DFT-s-OFDM QPSK | 1@0 | see graph | PASS |
| 66 | 15 | 40 | 346000 | 1730.0 | DFT-s-OFDM QPSK | 216@0 | see graph | PASS |
| 66 | 15 | 40 | 352000 | 1760.0 | DFT-s-OFDM QPSK | 1@215 | see graph | PASS |
| 66 | 15 | 40 | 352000 | 1760.0 | DFT-s-OFDM QPSK | 216@0 | see graph | PASS |

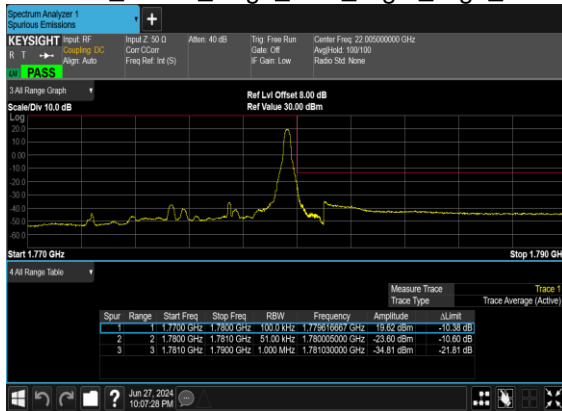
N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



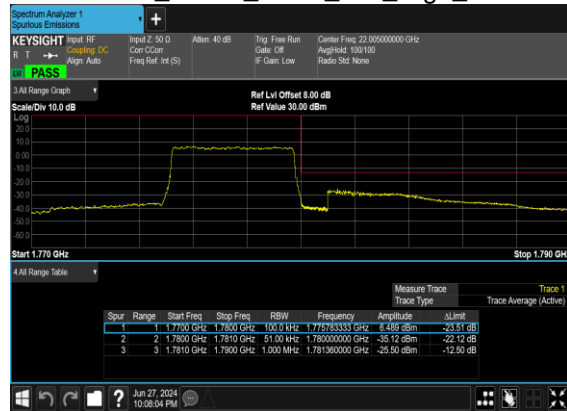
N66(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



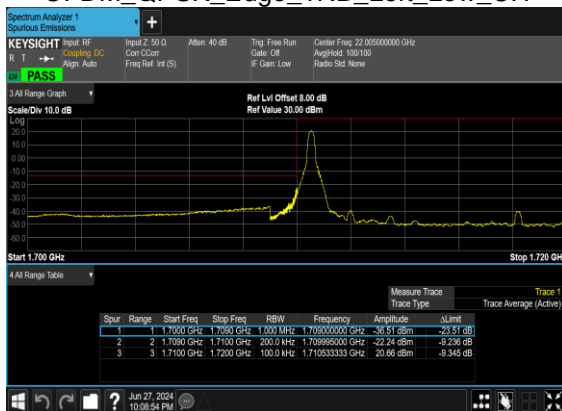
N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



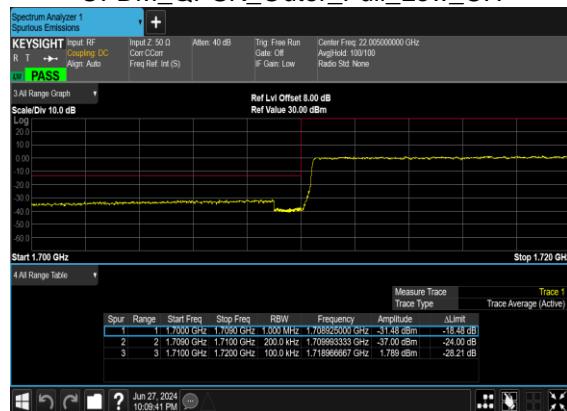
N66(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



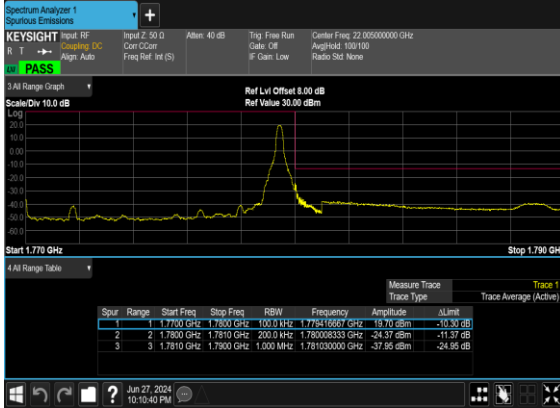
N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



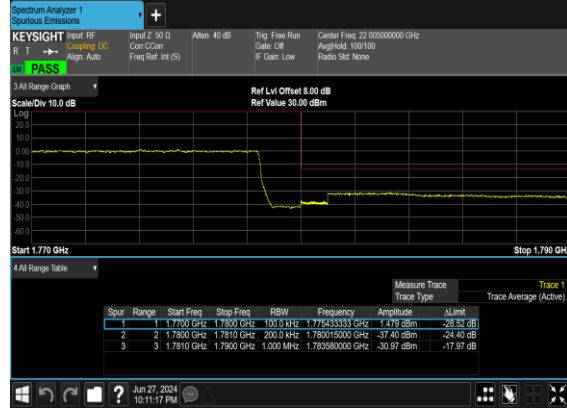
N66(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



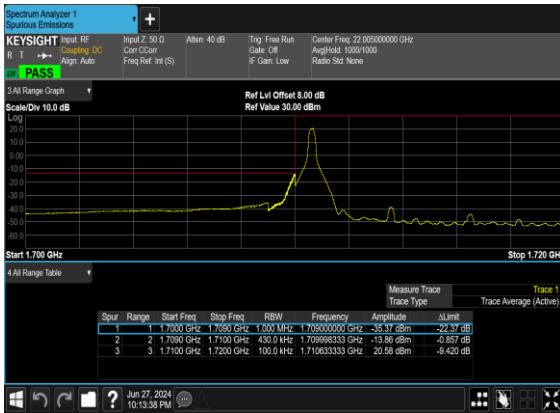
N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



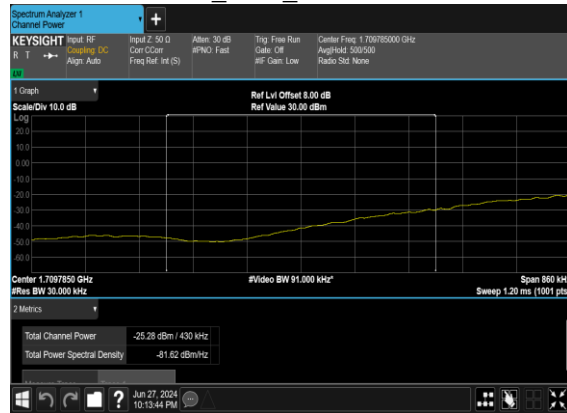
N66(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



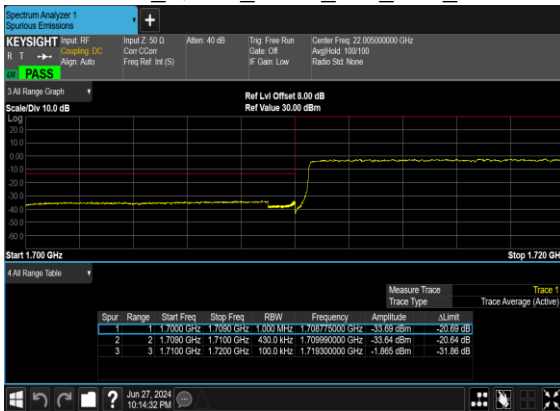
N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



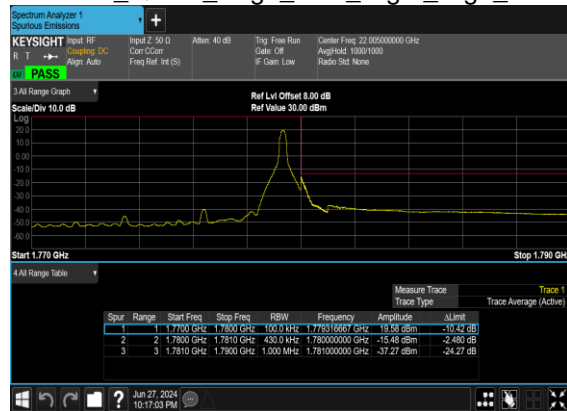
N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH CHP_PASS



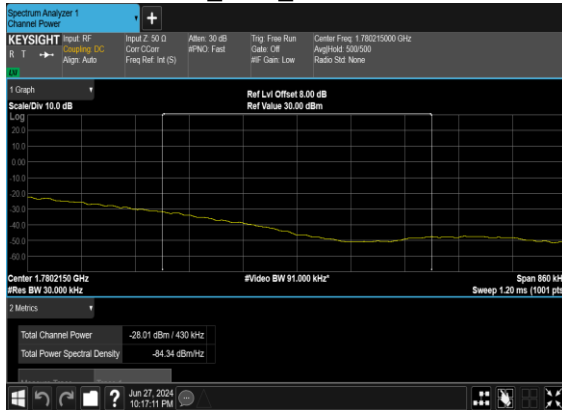
N66(40M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



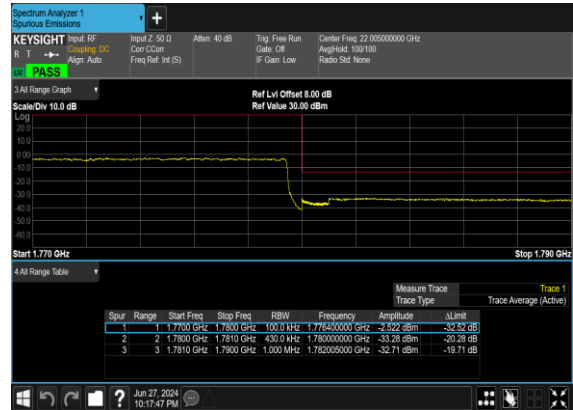
N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH _CHP_PASS



N66(40M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH





Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

| | | | |
|-----------------|---------------|---------------------|---------|
| Test Engineer : | Zhaohui Liang | Temperature : | 22~25°C |
| | | Relative Humidity : | 48~52% |

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

| n5 SA / NR 20MHz / QPSK(ANT1) | | | | | | | | | |
|-------------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1654.5 | -65.02 | -13 | -52.02 | -77.15 | -68.27 | 4.00 | 9.40 | H |
| | 2481.75 | -55.11 | -13 | -42.11 | -74.36 | -58.68 | 4.88 | 10.60 | H |
| | 3309 | -58.98 | -13 | -45.98 | -80.13 | -63.91 | 5.52 | 12.60 | H |
| | 1654.5 | -63.85 | -13 | -50.85 | -76.62 | -67.10 | 4.00 | 9.40 | V |
| | 2481.75 | -56.03 | -13 | -43.03 | -75.60 | -59.60 | 4.88 | 10.60 | V |
| | 3309 | -57.66 | -13 | -44.66 | -79.51 | -62.59 | 5.52 | 12.60 | V |

| EN-DC_7A_n5A / LTE 10MHz + NR 20MHz / QPSK (ANT4+1) | | | | | | | | | |
|---|-------------------|------------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP/EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n5 Middle | 1654.5 | -62.42 | -13 | -49.42 | -74.55 | -65.67 | 4.00 | 9.40 | H |
| | 2481.75 | -61.72 | -13 | -48.72 | -80.97 | -65.29 | 4.88 | 10.60 | H |
| | 3309 | -60.24 | -13 | -47.24 | -81.39 | -65.17 | 5.52 | 12.60 | H |
| | 1654.5 | -62.32 | -13 | -49.32 | -75.09 | -65.57 | 4.00 | 9.40 | V |
| | 2481.75 | -60.01 | -13 | -47.01 | -79.58 | -63.58 | 4.88 | 10.60 | V |
| | 3309 | -57.84 | -13 | -44.84 | -79.69 | -62.77 | 5.52 | 12.60 | V |
| LTE Band7 Middle | 5061.18 | -57.03 | -25 | -32.03 | -81.10 | -62.59 | 7.14 | 12.70 | H |
| | 7591.77 | -54.78 | -25 | -29.78 | -81.41 | -58.08 | 8.30 | 11.60 | H |
| | 10122.36 | -51.97 | -25 | -26.97 | -82.93 | -53.49 | 10.48 | 12.00 | H |
| | 5061.18 | -55.75 | -25 | -30.75 | -81.03 | -61.31 | 7.14 | 12.70 | V |
| | 7591.77 | -55.01 | -25 | -30.01 | -81.64 | -58.31 | 8.30 | 11.60 | V |
| | 10122.36 | -50.83 | -25 | -25.83 | -82.84 | -52.35 | 10.48 | 12.00 | V |



| n66 SA / NR 40MHz / QPSK(ANT5) | | | | | | | | | |
|--------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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 | 3452.5 | -58.55 | -13 | -45.55 | -80.00 | -65.40 | 5.65 | 12.50 | H |
| | 5178.74 | -51.54 | -13 | -38.54 | -76.30 | -57.21 | 7.13 | 12.80 | H |
| | 6905 | -54.83 | -13 | -41.83 | -81.04 | -58.23 | 8.40 | 11.80 | H |
| | 3452.5 | -58.16 | -13 | -45.16 | -80.55 | -65.01 | 5.65 | 12.50 | V |
| | 5178.74 | -50.08 | -13 | -37.08 | -75.23 | -55.75 | 7.13 | 12.80 | V |
| | 6905 | -53.42 | -13 | -40.42 | -80.91 | -56.82 | 8.40 | 11.80 | V |

| EN-DC_7A_n66A / LTE 10MHz + NR 40MHz / QPSK (ANT4+5) | | | | | | | | | |
|--|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n66 Middle | 3452.5 | -59.03 | -13 | -46.03 | -80.48 | -65.88 | 5.65 | 12.50 | H |
| | 5178.74 | -50.09 | -13 | -37.09 | -74.85 | -55.76 | 7.13 | 12.80 | H |
| | 6905 | -55.06 | -13 | -42.06 | -81.27 | -58.46 | 8.40 | 11.80 | H |
| | 3452.5 | -58.13 | -13 | -45.13 | -80.52 | -64.98 | 5.65 | 12.50 | V |
| | 5178.74 | -45.35 | -13 | -32.35 | -70.5 | -51.02 | 7.13 | 12.80 | V |
| | 6905 | -53.58 | -13 | -40.58 | -81.07 | -56.98 | 8.40 | 11.80 | V |
| LTE Band7 Middle | 5061.18 | -56.87 | -25 | -31.87 | -80.94 | -62.43 | 7.14 | 12.70 | H |
| | 7591.77 | -54.77 | -25 | -29.77 | -81.40 | -58.07 | 8.30 | 11.60 | H |
| | 10122.36 | -52.11 | -25 | -27.11 | -83.07 | -53.63 | 10.48 | 12.00 | H |
| | 5061.18 | -55.63 | -25 | -30.63 | -80.91 | -61.19 | 7.14 | 12.70 | V |
| | 7591.77 | -54.86 | -25 | -29.86 | -81.49 | -58.16 | 8.30 | 11.60 | V |
| | 10122.36 | -50.63 | -25 | -25.63 | -82.64 | -52.15 | 10.48 | 12.00 | V |

| n7 SA / NR 50MHz / QPSK(ANT1) | | | | | | | | | |
|-------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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 | 5025.00 | -57.35 | -25 | -32.35 | -81.21 | -62.91 | 7.14 | 12.70 | H |
| | 7537.50 | -54.51 | -25 | -29.51 | -81.33 | -57.81 | 8.30 | 11.60 | H |
| | 10050.00 | -52.53 | -25 | -27.53 | -83.38 | -54.05 | 10.48 | 12.00 | H |
| | 5025.00 | -55.61 | -25 | -30.61 | -80.92 | -61.17 | 7.14 | 12.70 | V |
| | 7537.50 | -51.43 | -25 | -26.43 | -78.24 | -54.73 | 8.30 | 11.60 | V |
| | 10050.00 | -51.89 | -25 | -26.89 | -83.5 | -53.41 | 10.48 | 12.00 | V |



| EN-DC_7A_n7A / LTE 10MHz + NR 50MHz / QPSK (ANT4+1) | | | | | | | | | |
|---|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n7 Middle | 5025.00 | -57.86 | -25 | -32.86 | -81.72 | -63.42 | 7.14 | 12.70 | H |
| | 7537.50 | -54.88 | -25 | -29.88 | -81.70 | -58.18 | 8.30 | 11.60 | H |
| | 10050.00 | -52.66 | -25 | -27.66 | -83.51 | -54.18 | 10.48 | 12.00 | H |
| | 5025.00 | -56.16 | -25 | -31.16 | -81.47 | -61.72 | 7.14 | 12.70 | V |
| | 7537.50 | -54.81 | -25 | -29.81 | -81.62 | -58.11 | 8.30 | 11.60 | V |
| | 10050.00 | -52.00 | -25 | -27.00 | -83.61 | -53.52 | 10.48 | 12.00 | V |
| LTE Band7 Middle | 5061.18 | -56.85 | -25 | -31.85 | -80.92 | -62.41 | 7.14 | 12.70 | H |
| | 7591.77 | -55.04 | -25 | -30.04 | -81.67 | -58.34 | 8.30 | 11.60 | H |
| | 10122.36 | -52.13 | -25 | -27.13 | -83.09 | -53.65 | 10.48 | 12.00 | H |
| | 5061.18 | -55.97 | -25 | -30.97 | -81.25 | -61.53 | 7.14 | 12.70 | V |
| | 7591.77 | -54.86 | -25 | -29.86 | -81.49 | -58.16 | 8.30 | 11.60 | V |
| | 10122.36 | -51.07 | -25 | -26.07 | -83.08 | -52.59 | 10.48 | 12.00 | V |

| n41 SA / NR 100MHz / QPSK(ANT5) | | | | | | | | | |
|---------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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 | -53.62 | -25 | -28.62 | -77.90 | -59.18 | 7.14 | 12.70 | H |
| | 7633.50 | -47.74 | -25 | -22.74 | -74.28 | -51.04 | 8.30 | 11.60 | H |
| | 10178.00 | -52.51 | -25 | -27.51 | -83.53 | -54.03 | 10.48 | 12.00 | H |
| | 5089.00 | -50.42 | -25 | -25.42 | -75.68 | -55.98 | 7.14 | 12.70 | V |
| | 7633.50 | -46.21 | -25 | -21.21 | -73.43 | -49.51 | 8.30 | 11.60 | V |
| | 10178.00 | -51.17 | -25 | -26.17 | -83.41 | -52.69 | 10.48 | 12.00 | V |

| EN-DC_41A_n41A / LTE 10MHz + NR 100MHz / QPSK (ANT4+5) | | | | | | | | | |
|--|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n41 Middle | 5089.00 | -57.40 | -25 | -32.40 | -81.68 | -62.96 | 7.14 | 12.70 | H |
| | 7633.50 | -55.30 | -25 | -30.30 | -81.84 | -58.60 | 8.30 | 11.60 | H |
| | 10178.00 | -52.46 | -25 | -27.46 | -83.48 | -53.98 | 10.48 | 12.00 | H |
| | 5089.00 | -55.99 | -25 | -30.99 | -81.25 | -61.55 | 7.14 | 12.70 | V |
| | 7633.50 | -54.04 | -25 | -29.04 | -81.26 | -57.34 | 8.30 | 11.60 | V |
| | 10178.00 | -51.19 | -25 | -26.19 | -83.43 | -52.71 | 10.48 | 12.00 | V |
| LTE Band41 Middle | 5177.18 | -56.35 | -25 | -31.35 | -81.11 | -61.91 | 7.14 | 12.70 | H |
| | 7765.77 | -55.10 | -25 | -30.10 | -81.29 | -58.40 | 8.30 | 11.60 | H |
| | 10354.36 | -51.66 | -25 | -26.66 | -82.88 | -53.18 | 10.48 | 12.00 | H |
| | 5177.18 | -55.96 | -25 | -30.96 | -81.11 | -61.52 | 7.14 | 12.70 | V |
| | 7765.77 | -51.28 | -25 | -26.28 | -80.9 | -54.58 | 8.30 | 11.60 | V |
| | 10354.36 | -49.88 | -25 | -24.88 | -82.9 | -51.40 | 10.48 | 12.00 | V |

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