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# 1. Effective (Isotropic) Radiated Power Output Data for SA

## Test Result

| Band | SCS | Bandwidth | Modulation  | Channel | RB Config | Power<br>(dBm/10MHz) | EIRP<br>(dBm/10MHz) | Limit<br>(dBm/10MHz) | Verdict |
|------|-----|-----------|-------------|---------|-----------|----------------------|---------------------|----------------------|---------|
| N48  | 30  | 20        | DFT-PI2BPSK | L       | 1@1       | 18.86                | 22.26               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-PI2BPSK | L       | 1@49      | 18.87                | 22.27               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-PI2BPSK | L       | 50@0      | 18.94                | 22.34               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-QPSK    | L       | 1@1       | 18.79                | 22.19               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-QPSK    | L       | 1@49      | 18.83                | 22.23               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-QPSK    | L       | 50@0      | 18.96                | 22.36               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-16QAM   | L       | 1@1       | 18.79                | 22.19               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-16QAM   | L       | 1@49      | 18.73                | 22.13               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-16QAM   | L       | 50@0      | 18.84                | 22.24               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-64QAM   | L       | 1@1       | 18.88                | 22.28               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-64QAM   | L       | 1@49      | 18.63                | 22.03               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-64QAM   | L       | 50@0      | 18.84                | 22.24               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-256QAM  | L       | 1@1       | 18.88                | 22.28               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-256QAM  | L       | 1@49      | 18.63                | 22.03               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-256QAM  | L       | 50@0      | 18.84                | 22.24               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-PI2BPSK | M       | 1@1       | 19.11                | 22.51               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-PI2BPSK | M       | 1@49      | 19.26                | 22.66               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-PI2BPSK | M       | 50@0      | 19.32                | 22.72               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-QPSK    | M       | 1@1       | 19.09                | 22.49               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-QPSK    | M       | 1@49      | 19.23                | 22.63               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-QPSK    | M       | 50@0      | 19.28                | 22.68               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-16QAM   | M       | 1@1       | 18.96                | 22.36               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-16QAM   | M       | 1@49      | 19.08                | 22.48               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-16QAM   | M       | 50@0      | 19.2                 | 22.60               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-64QAM   | M       | 1@1       | 18.97                | 22.37               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-64QAM   | M       | 1@49      | 18.98                | 22.38               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-64QAM   | M       | 50@0      | 19.23                | 22.63               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-256QAM  | M       | 1@1       | 18.98                | 22.38               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-256QAM  | M       | 1@49      | 19.08                | 22.48               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-256QAM  | M       | 50@0      | 19.26                | 22.66               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-PI2BPSK | H       | 1@1       | 18.34                | 21.74               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-PI2BPSK | H       | 1@49      | 18.27                | 21.67               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-PI2BPSK | H       | 50@0      | 18.4                 | 21.80               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-QPSK    | H       | 1@1       | 18.33                | 21.73               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-QPSK    | H       | 1@49      | 18.26                | 21.66               | 23.00                | PASS    |
| N48  | 30  | 20        | DFT-QPSK    | H       | 50@0      | 18.35                | 21.75               | 23.00                | PASS    |

|     |    |    |             |   |      |       |       |       |      |
|-----|----|----|-------------|---|------|-------|-------|-------|------|
| N48 | 30 | 20 | DFT-16QAM   | H | 1@1  | 18.23 | 21.63 | 23.00 | PASS |
| N48 | 30 | 20 | DFT-16QAM   | H | 1@49 | 18.12 | 21.52 | 23.00 | PASS |
| N48 | 30 | 20 | DFT-16QAM   | H | 50@0 | 18.3  | 21.70 | 23.00 | PASS |
| N48 | 30 | 20 | DFT-64QAM   | H | 1@1  | 18.24 | 21.64 | 23.00 | PASS |
| N48 | 30 | 20 | DFT-64QAM   | H | 1@49 | 18.19 | 21.59 | 23.00 | PASS |
| N48 | 30 | 20 | DFT-64QAM   | H | 50@0 | 18.3  | 21.70 | 23.00 | PASS |
| N48 | 30 | 20 | DFT-256QAM  | H | 1@1  | 18.23 | 21.63 | 23.00 | PASS |
| N48 | 30 | 20 | DFT-256QAM  | H | 1@49 | 18.15 | 21.55 | 23.00 | PASS |
| N48 | 30 | 20 | DFT-256QAM  | H | 50@0 | 18.32 | 21.72 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-PI2BPSK | L | 1@1  | 18.81 | 22.21 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-PI2BPSK | L | 1@76 | 18.84 | 22.24 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-PI2BPSK | L | 75@0 | 18.85 | 22.25 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-QPSK    | L | 1@1  | 18.74 | 22.14 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-QPSK    | L | 1@76 | 18.82 | 22.22 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-QPSK    | L | 75@0 | 18.95 | 22.35 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-16QAM   | L | 1@1  | 18.77 | 22.17 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-16QAM   | L | 1@76 | 18.74 | 22.14 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-16QAM   | L | 75@0 | 18.83 | 22.23 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-64QAM   | L | 1@1  | 18.85 | 22.25 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-64QAM   | L | 1@76 | 18.61 | 22.01 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-64QAM   | L | 75@0 | 18.79 | 22.19 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-256QAM  | L | 1@1  | 18.93 | 22.33 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-256QAM  | L | 1@76 | 18.73 | 22.13 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-256QAM  | L | 75@0 | 18.8  | 22.20 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-PI2BPSK | M | 1@1  | 19.1  | 22.50 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-PI2BPSK | M | 1@76 | 19.23 | 22.63 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-PI2BPSK | M | 75@0 | 19.24 | 22.64 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-QPSK    | M | 1@1  | 19.11 | 22.51 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-QPSK    | M | 1@76 | 19.28 | 22.68 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-QPSK    | M | 75@0 | 19.28 | 22.68 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-16QAM   | M | 1@1  | 18.95 | 22.35 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-16QAM   | M | 1@76 | 19.1  | 22.50 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-16QAM   | M | 75@0 | 19.18 | 22.58 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-64QAM   | M | 1@1  | 18.96 | 22.36 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-64QAM   | M | 1@76 | 18.93 | 22.33 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-64QAM   | M | 75@0 | 19.24 | 22.64 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-256QAM  | M | 1@1  | 18.93 | 22.33 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-256QAM  | M | 1@76 | 19.16 | 22.56 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-256QAM  | M | 75@0 | 19.21 | 22.61 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-PI2BPSK | H | 1@1  | 18.41 | 21.81 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-PI2BPSK | H | 1@76 | 18.22 | 21.62 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-PI2BPSK | H | 75@0 | 18.4  | 21.80 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-QPSK    | H | 1@1  | 18.29 | 21.69 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-QPSK    | H | 1@76 | 18.27 | 21.67 | 23.00 | PASS |

|     |    |    |             |   |       |       |       |       |      |
|-----|----|----|-------------|---|-------|-------|-------|-------|------|
| N48 | 30 | 30 | DFT-QPSK    | H | 75@0  | 18.39 | 21.79 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-16QAM   | H | 1@1   | 18.25 | 21.65 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-16QAM   | H | 1@76  | 18.03 | 21.43 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-16QAM   | H | 75@0  | 18.29 | 21.69 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-64QAM   | H | 1@1   | 18.17 | 21.57 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-64QAM   | H | 1@76  | 18.11 | 21.51 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-64QAM   | H | 75@0  | 18.32 | 21.72 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-256QAM  | H | 1@1   | 18.28 | 21.68 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-256QAM  | H | 1@76  | 18.18 | 21.58 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-256QAM  | H | 75@0  | 18.35 | 21.75 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | L | 1@1   | 18.86 | 22.26 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | L | 1@104 | 18.87 | 22.27 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | L | 100@0 | 18.94 | 22.34 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-QPSK    | L | 1@1   | 18.79 | 22.19 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-QPSK    | L | 1@104 | 18.83 | 22.23 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-QPSK    | L | 100@0 | 18.96 | 22.36 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-16QAM   | L | 1@1   | 18.79 | 22.19 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-16QAM   | L | 1@104 | 18.73 | 22.13 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-16QAM   | L | 100@0 | 18.84 | 22.24 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-64QAM   | L | 1@1   | 18.88 | 22.28 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-64QAM   | L | 1@104 | 18.63 | 22.03 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-64QAM   | L | 100@0 | 18.84 | 22.24 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-256QAM  | L | 1@1   | 18.88 | 22.28 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-256QAM  | L | 1@104 | 18.59 | 21.99 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-256QAM  | L | 100@0 | 18.84 | 22.24 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | M | 1@1   | 19.11 | 22.51 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | M | 1@104 | 19.26 | 22.66 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | M | 100@0 | 19.32 | 22.72 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-QPSK    | M | 1@1   | 19.09 | 22.49 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-QPSK    | M | 1@104 | 19.23 | 22.63 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-QPSK    | M | 100@0 | 19.28 | 22.68 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-16QAM   | M | 1@1   | 18.96 | 22.36 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-16QAM   | M | 1@104 | 19.08 | 22.48 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-16QAM   | M | 100@0 | 19.2  | 22.60 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-64QAM   | M | 1@1   | 18.97 | 22.37 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-64QAM   | M | 1@104 | 18.98 | 22.38 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-64QAM   | M | 100@0 | 19.23 | 22.63 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-256QAM  | M | 1@1   | 18.98 | 22.38 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-256QAM  | M | 1@104 | 19.08 | 22.48 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-256QAM  | M | 100@0 | 19.26 | 22.66 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | H | 1@1   | 18.34 | 21.74 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | H | 1@104 | 18.27 | 21.67 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | H | 100@0 | 18.4  | 21.80 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-QPSK    | H | 1@1   | 18.33 | 21.73 | 23.00 | PASS |

|     |    |    |            |   |       |       |       |       |      |
|-----|----|----|------------|---|-------|-------|-------|-------|------|
| N48 | 30 | 40 | DFT-QPSK   | H | 1@104 | 18.26 | 21.66 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-QPSK   | H | 100@0 | 18.35 | 21.75 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-16QAM  | H | 1@1   | 18.23 | 21.63 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-16QAM  | H | 1@104 | 18.12 | 21.52 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-16QAM  | H | 100@0 | 18.3  | 21.70 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-64QAM  | H | 1@1   | 18.24 | 21.64 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-64QAM  | H | 1@104 | 18.19 | 21.59 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-64QAM  | H | 100@0 | 18.3  | 21.70 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-256QAM | H | 1@1   | 18.23 | 21.63 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-256QAM | H | 1@104 | 18.15 | 21.55 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-256QAM | H | 100@0 | 18.32 | 21.72 | 23.00 | PASS |

## 2. Effective (Isotropic) Radiated Power Output Data for MIMO

### Test Result

| Band | SCS | Bandwidth | Modulation | Channel | RB Config       | Power Ant1<br>(dBm/10MHz) | Power Ant2<br>(dBm/10MHz) | Total Power<br>(dBm/10MHz) | ERIP<br>(dBm/10MHz) | Limit<br>(dBm/10MHz) | Verdict |
|------|-----|-----------|------------|---------|-----------------|---------------------------|---------------------------|----------------------------|---------------------|----------------------|---------|
| N48  | 30  | 20        | CP-QPSK    | L       | Inner_1RB_Left  | 16.16                     | 15.19                     | 18.71                      | 20.91               | 23                   | PASS    |
| N48  | 30  | 20        | CP-QPSK    | L       | Inner_1RB_Right | 16.1                      | 15.18                     | 18.67                      | 20.87               | 23                   | PASS    |
| N48  | 30  | 20        | CP-QPSK    | L       | Outer_Full      | 16.11                     | 15.2                      | 18.69                      | 20.89               | 23                   | PASS    |
| N48  | 30  | 20        | CP-16QAM   | L       | Inner_1RB_Left  | 16.02                     | 15.23                     | 18.65                      | 20.85               | 23                   | PASS    |
| N48  | 30  | 20        | CP-16QAM   | L       | Inner_1RB_Right | 16.09                     | 15.19                     | 18.67                      | 20.87               | 23                   | PASS    |
| N48  | 30  | 20        | CP-16QAM   | L       | Outer_Full      | 16.08                     | 15.08                     | 18.62                      | 20.82               | 23                   | PASS    |
| N48  | 30  | 20        | CP-64QAM   | L       | Inner_1RB_Left  | 16.25                     | 15.21                     | 18.77                      | 20.97               | 23                   | PASS    |
| N48  | 30  | 20        | CP-64QAM   | L       | Inner_1RB_Right | 16.03                     | 15.16                     | 18.63                      | 20.83               | 23                   | PASS    |
| N48  | 30  | 20        | CP-64QAM   | L       | Outer_Full      | 15.32                     | 15.19                     | 18.27                      | 20.47               | 23                   | PASS    |
| N48  | 30  | 20        | CP-256QAM  | L       | Inner_1RB_Left  | 14.61                     | 13.7                      | 17.19                      | 19.39               | 23                   | PASS    |
| N48  | 30  | 20        | CP-256QAM  | L       | Inner_1RB_Right | 14.49                     | 13.67                     | 17.11                      | 19.31               | 23                   | PASS    |
| N48  | 30  | 20        | CP-256QAM  | L       | Outer_Full      | 14.74                     | 13.7                      | 17.26                      | 19.46               | 23                   | PASS    |
| N48  | 30  | 20        | CP-QPSK    | M       | Inner_1RB_Left  | 16.12                     | 15.76                     | 18.95                      | 21.15               | 23                   | PASS    |
| N48  | 30  | 20        | CP-QPSK    | M       | Inner_1RB_Right | 15.94                     | 15.05                     | 18.53                      | 20.73               | 23                   | PASS    |
| N48  | 30  | 20        | CP-QPSK    | M       | Outer_Full      | 16.14                     | 15.13                     | 18.67                      | 20.87               | 23                   | PASS    |
| N48  | 30  | 20        | CP-16QAM   | M       | Inner_1RB_Left  | 16.41                     | 15.02                     | 18.78                      | 20.98               | 23                   | PASS    |
| N48  | 30  | 20        | CP-16QAM   | M       | Inner_1RB_Right | 15.88                     | 15.02                     | 18.48                      | 20.68               | 23                   | PASS    |
| N48  | 30  | 20        | CP-16QAM   | M       | Outer_Full      | 16.1                      | 15.04                     | 18.61                      | 20.81               | 23                   | PASS    |
| N48  | 30  | 20        | CP-64QAM   | M       | Inner_1RB_Left  | 16.23                     | 14.98                     | 18.66                      | 20.86               | 23                   | PASS    |
| N48  | 30  | 20        | CP-64QAM   | M       | Inner_1RB_Right | 15.78                     | 15.03                     | 18.43                      | 20.63               | 23                   | PASS    |
| N48  | 30  | 20        | CP-64QAM   | M       | Outer_Full      | 16.08                     | 15.11                     | 18.63                      | 20.83               | 23                   | PASS    |

|     |    |    |           |   |                     |       |       |       |       |    |      |
|-----|----|----|-----------|---|---------------------|-------|-------|-------|-------|----|------|
| N48 | 30 | 20 | CP-256QAM | M | Inner_1RB<br>_Left  | 14.8  | 13.63 | 17.26 | 19.46 | 23 | PASS |
| N48 | 30 | 20 | CP-256QAM | M | Inner_1RB<br>_Right | 14.29 | 13.52 | 16.93 | 19.13 | 23 | PASS |
| N48 | 30 | 20 | CP-256QAM | M | Outer_Full          | 14.64 | 13.66 | 17.19 | 19.39 | 23 | PASS |
| N48 | 30 | 20 | CP-QPSK   | H | Inner_1RB<br>_Left  | 15.71 | 15    | 18.38 | 20.58 | 23 | PASS |
| N48 | 30 | 20 | CP-QPSK   | H | Inner_1RB<br>_Right | 15.5  | 14.94 | 18.24 | 20.44 | 23 | PASS |
| N48 | 30 | 20 | CP-QPSK   | H | Outer_Full          | 15.63 | 15.02 | 18.35 | 20.55 | 23 | PASS |
| N48 | 30 | 20 | CP-16QAM  | H | Inner_1RB<br>_Left  | 15.67 | 14.96 | 18.34 | 20.54 | 23 | PASS |
| N48 | 30 | 20 | CP-16QAM  | H | Inner_1RB<br>_Right | 15.47 | 15.01 | 18.26 | 20.46 | 23 | PASS |
| N48 | 30 | 20 | CP-16QAM  | H | Outer_Full          | 15.5  | 14.95 | 18.24 | 20.44 | 23 | PASS |
| N48 | 30 | 20 | CP-64QAM  | H | Inner_1RB<br>_Left  | 15.62 | 15.06 | 18.36 | 20.56 | 23 | PASS |
| N48 | 30 | 20 | CP-64QAM  | H | Inner_1RB<br>_Right | 15.43 | 14.81 | 18.14 | 20.34 | 23 | PASS |
| N48 | 30 | 20 | CP-64QAM  | H | Outer_Full          | 15.58 | 14.94 | 18.28 | 20.48 | 23 | PASS |
| N48 | 30 | 20 | CP-256QAM | H | Inner_1RB<br>_Left  | 14.11 | 13.29 | 16.73 | 18.93 | 23 | PASS |
| N48 | 30 | 20 | CP-256QAM | H | Inner_1RB<br>_Right | 14.26 | 13.59 | 16.95 | 19.15 | 23 | PASS |
| N48 | 30 | 20 | CP-256QAM | H | Outer_Full          | 14.11 | 13.48 | 16.82 | 19.02 | 23 | PASS |
| N48 | 30 | 30 | CP-QPSK   | L | Inner_1RB<br>_Left  | 16.08 | 15.04 | 18.6  | 20.8  | 23 | PASS |
| N48 | 30 | 30 | CP-QPSK   | L | Inner_1RB<br>_Right | 16.01 | 15.2  | 18.63 | 20.83 | 23 | PASS |
| N48 | 30 | 30 | CP-QPSK   | L | Outer_Full          | 16.12 | 15.2  | 18.69 | 20.89 | 23 | PASS |
| N48 | 30 | 30 | CP-16QAM  | L | Inner_1RB<br>_Left  | 15.87 | 15.18 | 18.55 | 20.75 | 23 | PASS |
| N48 | 30 | 30 | CP-16QAM  | L | Inner_1RB<br>_Right | 15.99 | 15.25 | 18.65 | 20.85 | 23 | PASS |
| N48 | 30 | 30 | CP-16QAM  | L | Outer_Full          | 16.3  | 15.18 | 18.79 | 20.99 | 23 | PASS |
| N48 | 30 | 30 | CP-64QAM  | L | Inner_1RB<br>_Left  | 16.27 | 15.28 | 18.81 | 21.01 | 23 | PASS |
| N48 | 30 | 30 | CP-64QAM  | L | Inner_1RB<br>_Right | 16.09 | 15.27 | 18.71 | 20.91 | 23 | PASS |
| N48 | 30 | 30 | CP-64QAM  | L | Outer_Full          | 15.34 | 15.06 | 18.21 | 20.41 | 23 | PASS |
| N48 | 30 | 30 | CP-256QAM | L | Inner_1RB<br>_Left  | 14.6  | 13.7  | 17.18 | 19.38 | 23 | PASS |
| N48 | 30 | 30 | CP-256QAM | L | Inner_1RB<br>_Right | 14.51 | 13.77 | 17.17 | 19.37 | 23 | PASS |

|     |    |    |           |   |                     |       |       |       |       |    |      |
|-----|----|----|-----------|---|---------------------|-------|-------|-------|-------|----|------|
| N48 | 30 | 30 | CP-256QAM | L | Outer_Full          | 14.81 | 13.67 | 17.29 | 19.49 | 23 | PASS |
| N48 | 30 | 30 | CP-QPSK   | M | Inner_1RB<br>_Left  | 16.09 | 15.73 | 18.92 | 21.12 | 23 | PASS |
| N48 | 30 | 30 | CP-QPSK   | M | Inner_1RB<br>_Right | 15.89 | 15.12 | 18.53 | 20.73 | 23 | PASS |
| N48 | 30 | 30 | CP-QPSK   | M | Outer_Full          | 16.14 | 15.06 | 18.64 | 20.84 | 23 | PASS |
| N48 | 30 | 30 | CP-16QAM  | M | Inner_1RB<br>_Left  | 16.3  | 14.99 | 18.7  | 20.9  | 23 | PASS |
| N48 | 30 | 30 | CP-16QAM  | M | Inner_1RB<br>_Right | 15.72 | 15.08 | 18.42 | 20.62 | 23 | PASS |
| N48 | 30 | 30 | CP-16QAM  | M | Outer_Full          | 16.22 | 14.99 | 18.66 | 20.86 | 23 | PASS |
| N48 | 30 | 30 | CP-64QAM  | M | Inner_1RB<br>_Left  | 16.36 | 14.82 | 18.67 | 20.87 | 23 | PASS |
| N48 | 30 | 30 | CP-64QAM  | M | Inner_1RB<br>_Right | 15.85 | 15.16 | 18.53 | 20.73 | 23 | PASS |
| N48 | 30 | 30 | CP-64QAM  | M | Outer_Full          | 15.97 | 15.21 | 18.62 | 20.82 | 23 | PASS |
| N48 | 30 | 30 | CP-256QAM | M | Inner_1RB<br>_Left  | 14.8  | 13.6  | 17.25 | 19.45 | 23 | PASS |
| N48 | 30 | 30 | CP-256QAM | M | Inner_1RB<br>_Right | 14.15 | 13.53 | 16.86 | 19.06 | 23 | PASS |
| N48 | 30 | 30 | CP-256QAM | M | Outer_Full          | 14.59 | 13.64 | 17.15 | 19.35 | 23 | PASS |
| N48 | 30 | 30 | CP-QPSK   | H | Inner_1RB<br>_Left  | 15.82 | 14.89 | 18.39 | 20.59 | 23 | PASS |
| N48 | 30 | 30 | CP-QPSK   | H | Inner_1RB<br>_Right | 15.44 | 14.92 | 18.2  | 20.4  | 23 | PASS |
| N48 | 30 | 30 | CP-QPSK   | H | Outer_Full          | 15.66 | 15.12 | 18.41 | 20.61 | 23 | PASS |
| N48 | 30 | 30 | CP-16QAM  | H | Inner_1RB<br>_Left  | 15.66 | 14.84 | 18.28 | 20.48 | 23 | PASS |
| N48 | 30 | 30 | CP-16QAM  | H | Inner_1RB<br>_Right | 15.34 | 14.91 | 18.14 | 20.34 | 23 | PASS |
| N48 | 30 | 30 | CP-16QAM  | H | Outer_Full          | 15.37 | 14.99 | 18.19 | 20.39 | 23 | PASS |
| N48 | 30 | 30 | CP-64QAM  | H | Inner_1RB<br>_Left  | 15.57 | 15.02 | 18.31 | 20.51 | 23 | PASS |
| N48 | 30 | 30 | CP-64QAM  | H | Inner_1RB<br>_Right | 15.25 | 14.93 | 18.1  | 20.3  | 23 | PASS |
| N48 | 30 | 30 | CP-64QAM  | H | Outer_Full          | 15.68 | 14.95 | 18.34 | 20.54 | 23 | PASS |
| N48 | 30 | 30 | CP-256QAM | H | Inner_1RB<br>_Left  | 14.02 | 13.23 | 16.65 | 18.85 | 23 | PASS |
| N48 | 30 | 30 | CP-256QAM | H | Inner_1RB<br>_Right | 14.34 | 13.6  | 17    | 19.2  | 23 | PASS |
| N48 | 30 | 30 | CP-256QAM | H | Outer_Full          | 13.97 | 13.46 | 16.73 | 18.93 | 23 | PASS |
| N48 | 30 | 40 | CP-QPSK   | L | Inner_1RB<br>_Left  | 16.18 | 15.03 | 18.65 | 20.85 | 23 | PASS |
| N48 | 30 | 40 | CP-QPSK   | L | Inner_1RB           | 16.05 | 15.31 | 18.71 | 20.91 | 23 | PASS |

|     |    |    |           |   |                     |       |       |       |       |    |      |
|-----|----|----|-----------|---|---------------------|-------|-------|-------|-------|----|------|
|     |    |    |           |   | _Right              |       |       |       |       |    |      |
| N48 | 30 | 40 | CP-QPSK   | L | Outer_Full          | 16.21 | 15.25 | 18.77 | 20.97 | 23 | PASS |
| N48 | 30 | 40 | CP-16QAM  | L | Inner_1RB<br>_Left  | 15.97 | 15.21 | 18.62 | 20.82 | 23 | PASS |
| N48 | 30 | 40 | CP-16QAM  | L | Inner_1RB<br>_Right | 16.14 | 15.13 | 18.67 | 20.87 | 23 | PASS |
| N48 | 30 | 40 | CP-16QAM  | L | Outer_Full          | 16.08 | 15.2  | 18.67 | 20.87 | 23 | PASS |
| N48 | 30 | 40 | CP-64QAM  | L | Inner_1RB<br>_Left  | 16.36 | 15.29 | 18.87 | 21.07 | 23 | PASS |
| N48 | 30 | 40 | CP-64QAM  | L | Inner_1RB<br>_Right | 16.12 | 15.15 | 18.67 | 20.87 | 23 | PASS |
| N48 | 30 | 40 | CP-64QAM  | L | Outer_Full          | 15.28 | 15.03 | 18.17 | 20.37 | 23 | PASS |
| N48 | 30 | 40 | CP-256QAM | L | Inner_1RB<br>_Left  | 14.52 | 13.58 | 17.09 | 19.29 | 23 | PASS |
| N48 | 30 | 40 | CP-256QAM | L | Inner_1RB<br>_Right | 14.68 | 13.63 | 17.2  | 19.4  | 23 | PASS |
| N48 | 30 | 40 | CP-256QAM | L | Outer_Full          | 14.67 | 13.61 | 17.18 | 19.38 | 23 | PASS |
| N48 | 30 | 40 | CP-QPSK   | M | Inner_1RB<br>_Left  | 16.12 | 15.9  | 19.02 | 21.22 | 23 | PASS |
| N48 | 30 | 40 | CP-QPSK   | M | Inner_1RB<br>_Right | 15.97 | 15.13 | 18.58 | 20.78 | 23 | PASS |
| N48 | 30 | 40 | CP-QPSK   | M | Outer_Full          | 16.14 | 15.14 | 18.68 | 20.88 | 23 | PASS |
| N48 | 30 | 40 | CP-16QAM  | M | Inner_1RB<br>_Left  | 16.46 | 14.99 | 18.8  | 21    | 23 | PASS |
| N48 | 30 | 40 | CP-16QAM  | M | Inner_1RB<br>_Right | 15.83 | 15.05 | 18.47 | 20.67 | 23 | PASS |
| N48 | 30 | 40 | CP-16QAM  | M | Outer_Full          | 16.01 | 14.95 | 18.52 | 20.72 | 23 | PASS |
| N48 | 30 | 40 | CP-64QAM  | M | Inner_1RB<br>_Left  | 16.22 | 14.8  | 18.58 | 20.78 | 23 | PASS |
| N48 | 30 | 40 | CP-64QAM  | M | Inner_1RB<br>_Right | 15.65 | 14.91 | 18.31 | 20.51 | 23 | PASS |
| N48 | 30 | 40 | CP-64QAM  | M | Outer_Full          | 15.88 | 15.1  | 18.52 | 20.72 | 23 | PASS |
| N48 | 30 | 40 | CP-256QAM | M | Inner_1RB<br>_Left  | 14.77 | 13.62 | 17.24 | 19.44 | 23 | PASS |
| N48 | 30 | 40 | CP-256QAM | M | Inner_1RB<br>_Right | 14.4  | 13.54 | 17    | 19.2  | 23 | PASS |
| N48 | 30 | 40 | CP-256QAM | M | Outer_Full          | 14.57 | 13.7  | 17.17 | 19.37 | 23 | PASS |
| N48 | 30 | 40 | CP-QPSK   | H | Inner_1RB<br>_Left  | 15.82 | 15.03 | 18.45 | 20.65 | 23 | PASS |
| N48 | 30 | 40 | CP-QPSK   | H | Inner_1RB<br>_Right | 15.33 | 14.92 | 18.14 | 20.34 | 23 | PASS |
| N48 | 30 | 40 | CP-QPSK   | H | Outer_Full          | 15.69 | 15.01 | 18.37 | 20.57 | 23 | PASS |
| N48 | 30 | 40 | CP-16QAM  | H | Inner_1RB<br>_Left  | 15.73 | 15.12 | 18.45 | 20.65 | 23 | PASS |

|     |    |    |           |   |                     |       |       |       |       |    |      |
|-----|----|----|-----------|---|---------------------|-------|-------|-------|-------|----|------|
| N48 | 30 | 40 | CP-16QAM  | H | Inner_1RB<br>_Right | 15.6  | 15.03 | 18.33 | 20.53 | 23 | PASS |
| N48 | 30 | 40 | CP-16QAM  | H | Outer_Full          | 15.45 | 14.95 | 18.22 | 20.42 | 23 | PASS |
| N48 | 30 | 40 | CP-64QAM  | H | Inner_1RB<br>_Left  | 15.61 | 15.09 | 18.37 | 20.57 | 23 | PASS |
| N48 | 30 | 40 | CP-64QAM  | H | Inner_1RB<br>_Right | 15.49 | 14.9  | 18.22 | 20.42 | 23 | PASS |
| N48 | 30 | 40 | CP-64QAM  | H | Outer_Full          | 15.6  | 14.94 | 18.29 | 20.49 | 23 | PASS |
| N48 | 30 | 40 | CP-256QAM | H | Inner_1RB<br>_Left  | 14.08 | 13.39 | 16.76 | 18.96 | 23 | PASS |
| N48 | 30 | 40 | CP-256QAM | H | Inner_1RB<br>_Right | 14.07 | 13.59 | 16.85 | 19.05 | 23 | PASS |
| N48 | 30 | 40 | CP-256QAM | H | Outer_Full          | 14.15 | 13.47 | 16.83 | 19.03 | 23 | PASS |

### 3. Peak-to-Average Ratio for SA

#### Peak-to-Average Ratio(CCDF)

#### Test Result

| Band | SCS | Bandwidth | Modulation | Channel | RB Config  | Power (dBm) | Limit | Verdict |
|------|-----|-----------|------------|---------|------------|-------------|-------|---------|
| N48  | 30  | 40        | DFT-256QAM | L       | Outer_Full | 6.67        | 13    | PASS    |
| N48  | 30  | 40        | CP-256QAM  | L       | Outer_Full | 8.66        | 13    | PASS    |
| N48  | 30  | 40        | DFT-256QAM | M       | Outer_Full | 6.72        | 13    | PASS    |
| N48  | 30  | 40        | CP-256QAM  | M       | Outer_Full | 8.78        | 13    | PASS    |
| N48  | 30  | 40        | DFT-256QAM | H       | Outer_Full | 6.69        | 13    | PASS    |
| N48  | 30  | 40        | CP-256QAM  | H       | Outer_Full | 8.54        | 13    | PASS    |

#### Test Graphs



1-N48-30-40-L-1-DFT-256QAM-Outer\_Full-100  
@0-18.27-18.27-19~27.5-PASS



1-N48-30-40-L-2-CP-256QAM-Outer\_Full-106  
@0-16.25-16.25-19~27.5-PASS

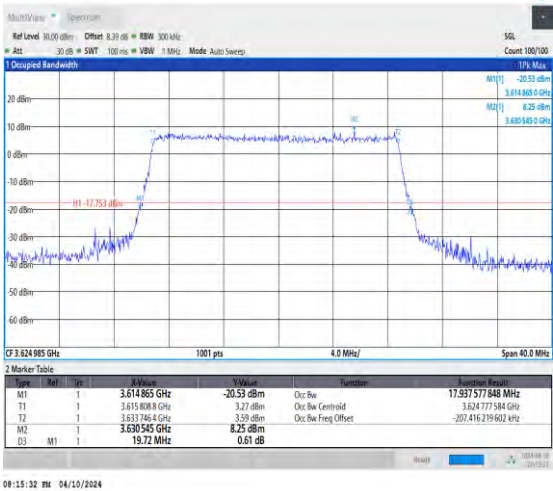


## 4. 26dB Bandwidth and Occupied Bandwidth for SA

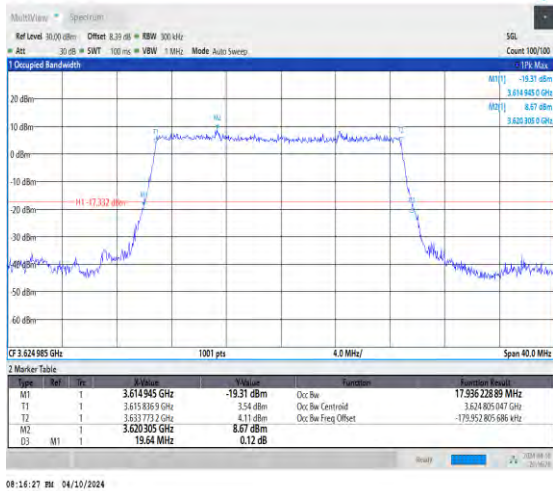
### Test Result

| Band | SCS | Bandwidth | Modulation  | Channel | RB Config | Result (99%) | Result (26dB) | Verdict |
|------|-----|-----------|-------------|---------|-----------|--------------|---------------|---------|
| N48  | 30  | 20        | DFT-QPSK    | M       | 50@0      | 17.938       | 19.720        | PASS    |
| N48  | 30  | 20        | DFT-PI2BPSK | M       | 50@0      | 17.936       | 19.640        | PASS    |
| N48  | 30  | 20        | DFT-16QAM   | M       | 50@0      | 17.942       | 19.520        | PASS    |
| N48  | 30  | 20        | DFT-64QAM   | M       | 50@0      | 17.921       | 19.680        | PASS    |
| N48  | 30  | 20        | DFT-256QAM  | M       | 50@0      | 17.925       | 19.760        | PASS    |
| N48  | 30  | 20        | CP-QPSK     | M       | 51@0      | 18.259       | 20.120        | PASS    |
| N48  | 30  | 20        | CP-16QAM    | M       | 51@0      | 18.276       | 19.960        | PASS    |
| N48  | 30  | 20        | CP-64QAM    | M       | 51@0      | 18.285       | 20.200        | PASS    |
| N48  | 30  | 20        | CP-256QAM   | M       | 51@0      | 18.273       | 20.120        | PASS    |
| N48  | 30  | 30        | DFT-QPSK    | M       | 75@0      | 26.811       | 28.860        | PASS    |
| N48  | 30  | 30        | DFT-PI2BPSK | M       | 75@0      | 26.843       | 28.740        | PASS    |
| N48  | 30  | 30        | DFT-16QAM   | M       | 75@0      | 26.803       | 28.860        | PASS    |
| N48  | 30  | 30        | DFT-64QAM   | M       | 75@0      | 26.81        | 28.740        | PASS    |
| N48  | 30  | 30        | DFT-256QAM  | M       | 75@0      | 26.802       | 28.920        | PASS    |
| N48  | 30  | 30        | CP-QPSK     | M       | 78@0      | 27.847       | 29.820        | PASS    |
| N48  | 30  | 30        | CP-16QAM    | M       | 78@0      | 27.839       | 30.060        | PASS    |
| N48  | 30  | 30        | CP-64QAM    | M       | 78@0      | 27.851       | 29.760        | PASS    |
| N48  | 30  | 30        | CP-256QAM   | M       | 78@0      | 27.849       | 29.760        | PASS    |
| N48  | 30  | 40        | DFT-QPSK    | M       | 100@0     | 35.965       | 38.880        | PASS    |
| N48  | 30  | 40        | DFT-PI2BPSK | M       | 100@0     | 36.031       | 38.800        | PASS    |
| N48  | 30  | 40        | DFT-16QAM   | M       | 100@0     | 35.951       | 39.120        | PASS    |
| N48  | 30  | 40        | DFT-64QAM   | M       | 100@0     | 35.979       | 39.120        | PASS    |
| N48  | 30  | 40        | DFT-256QAM  | M       | 100@0     | 35.998       | 38.880        | PASS    |
| N48  | 30  | 40        | CP-QPSK     | M       | 106@0     | 38.045       | 41.120        | PASS    |
| N48  | 30  | 40        | CP-16QAM    | M       | 106@0     | 38.02        | 40.960        | PASS    |
| N48  | 30  | 40        | CP-64QAM    | M       | 106@0     | 38.097       | 41.040        | PASS    |
| N48  | 30  | 40        | CP-256QAM   | M       | 106@0     | 38.058       | 41.120        | PASS    |

Test Graphs



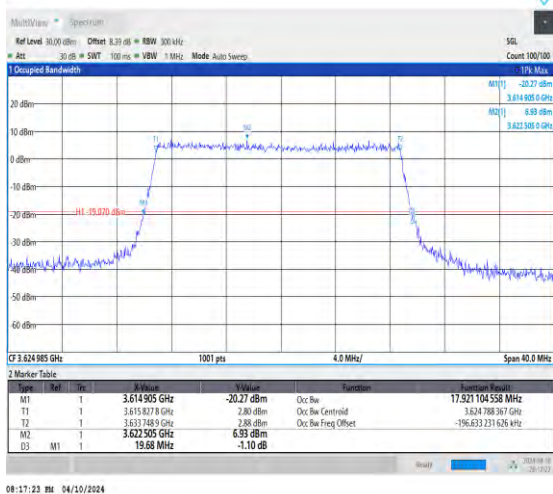
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NTNV\_N48\_30\_20\_M\_TID2\_Ant1#1



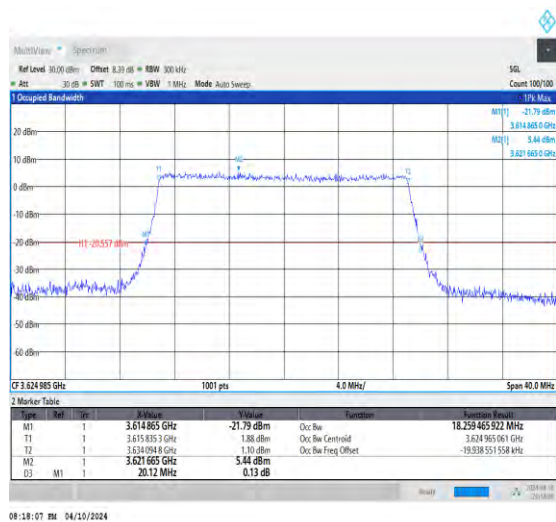
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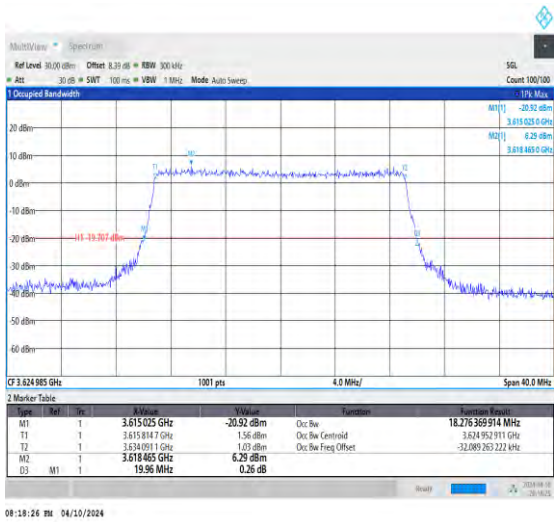
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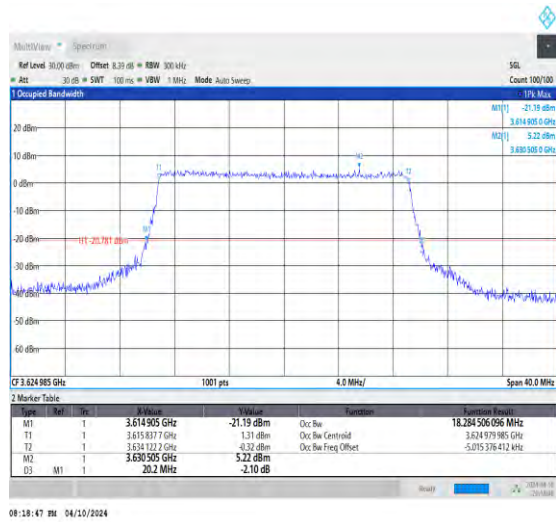
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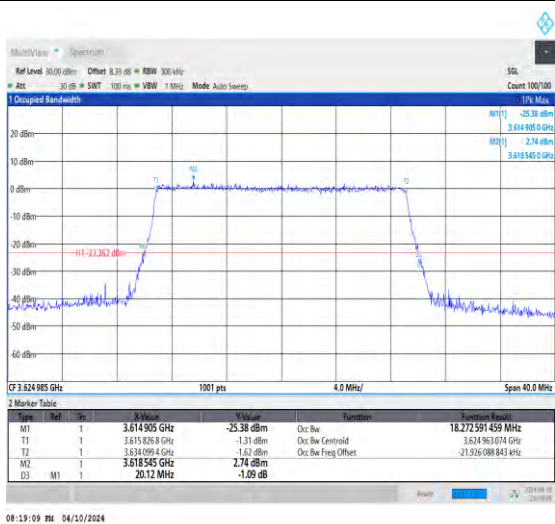
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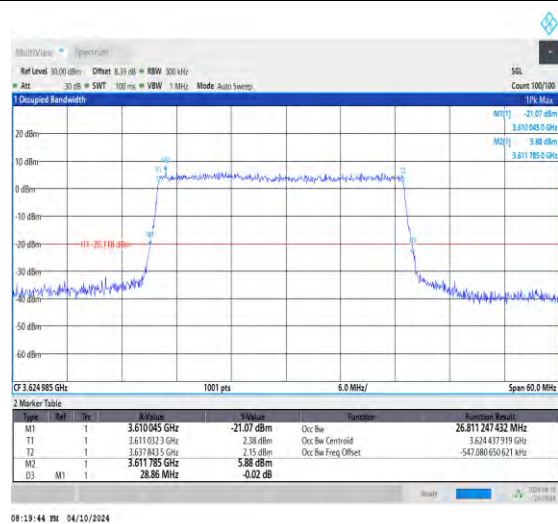
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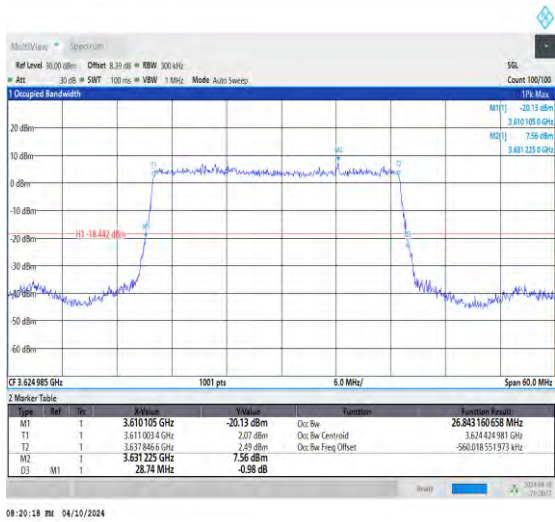
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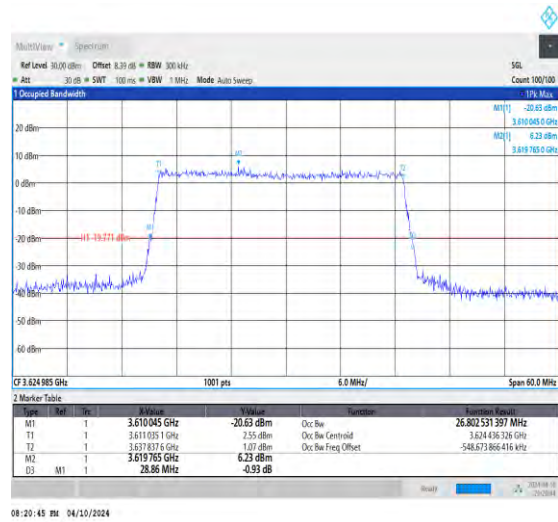
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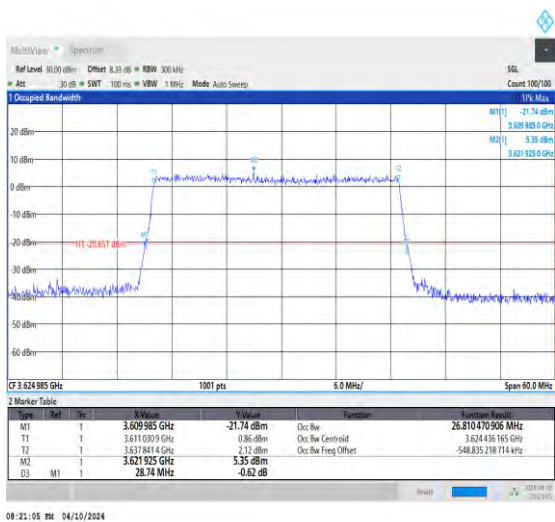
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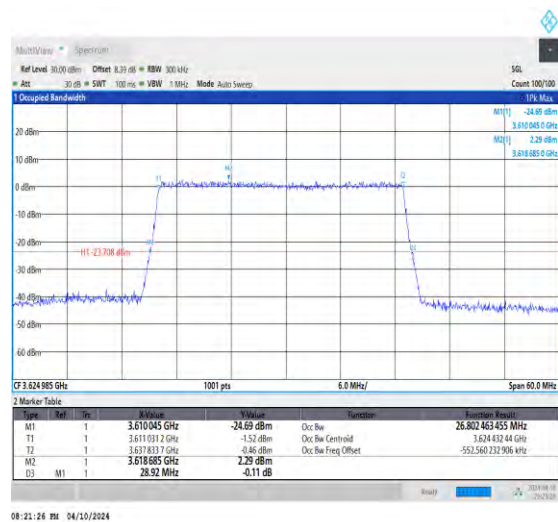
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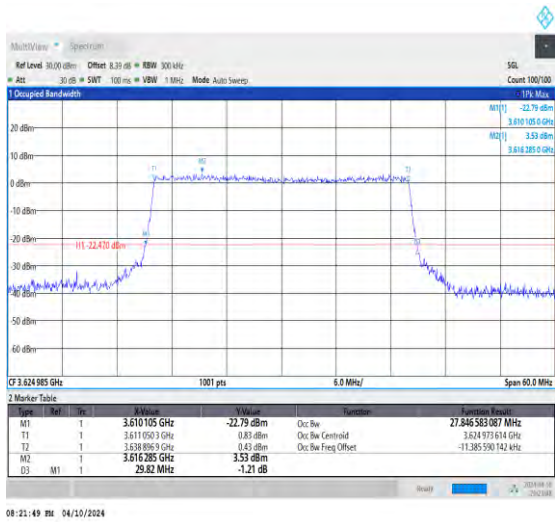
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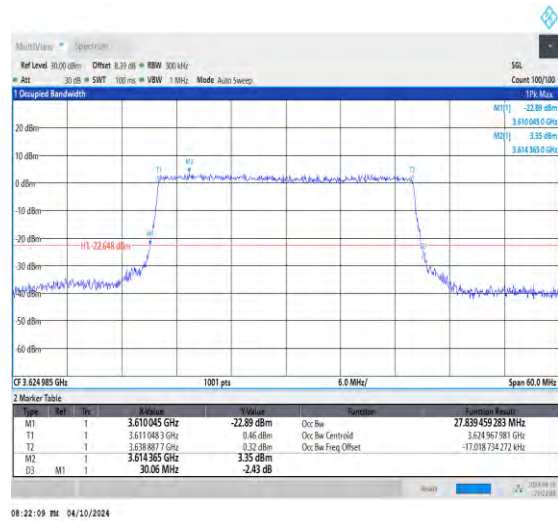
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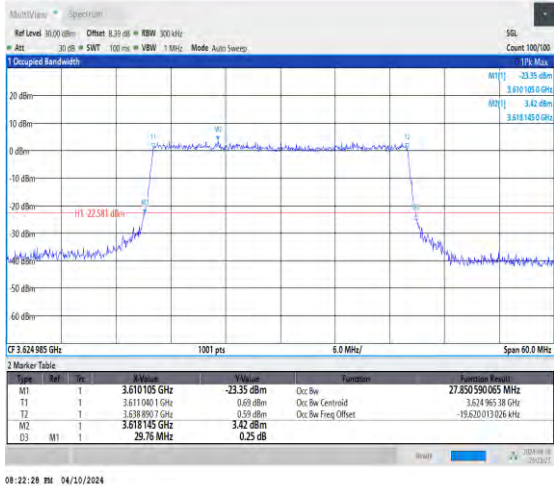
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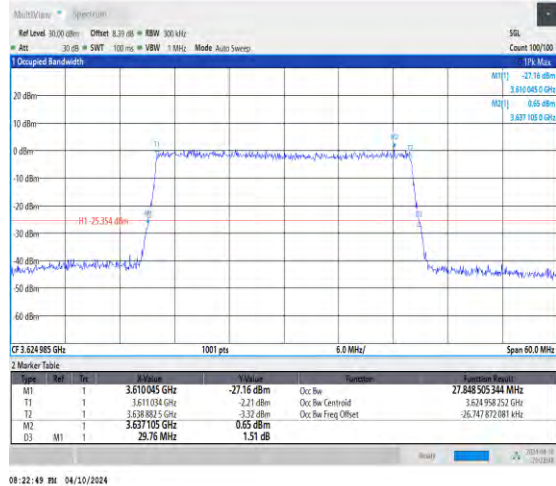
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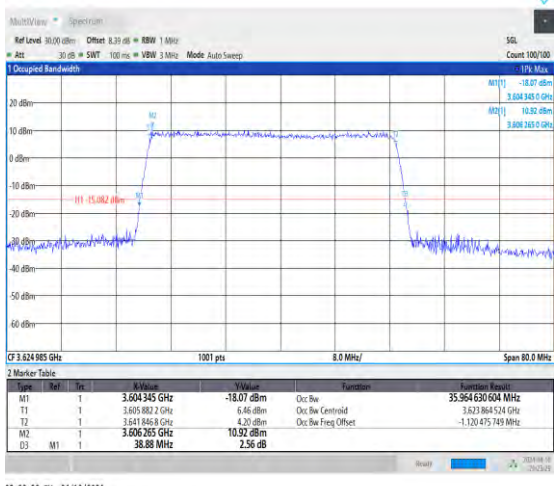
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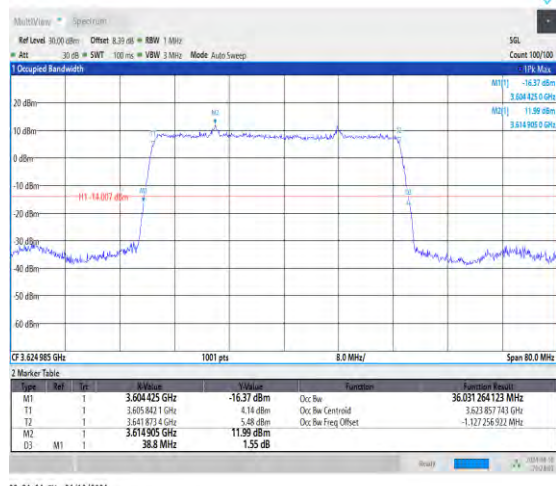
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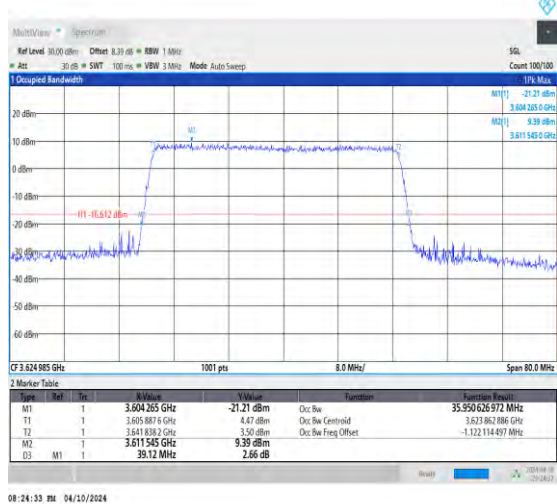
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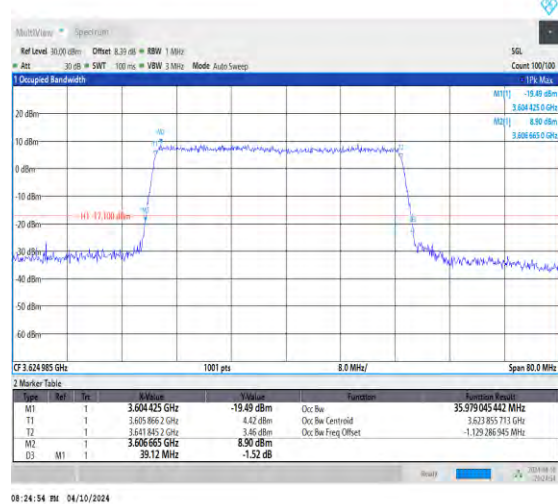
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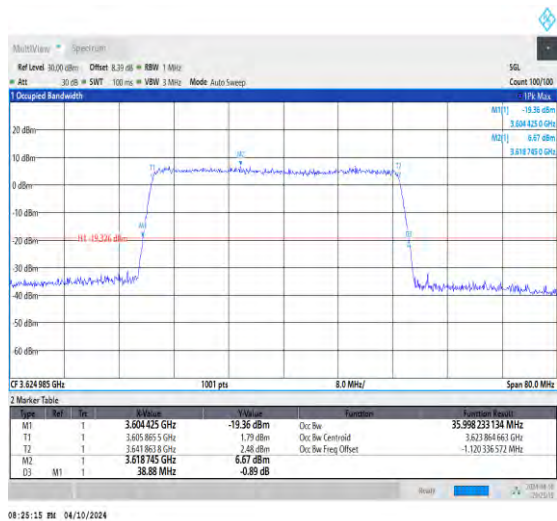
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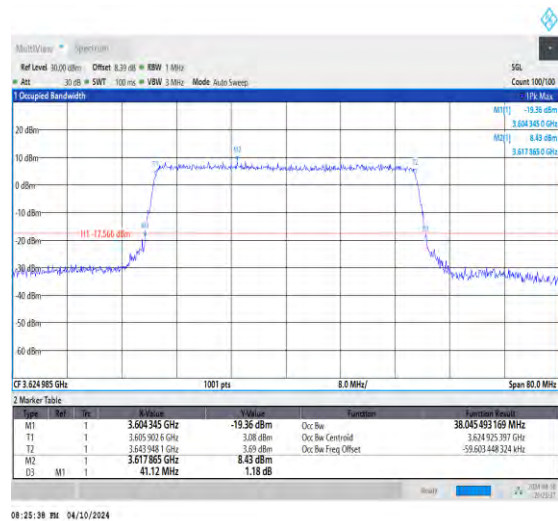
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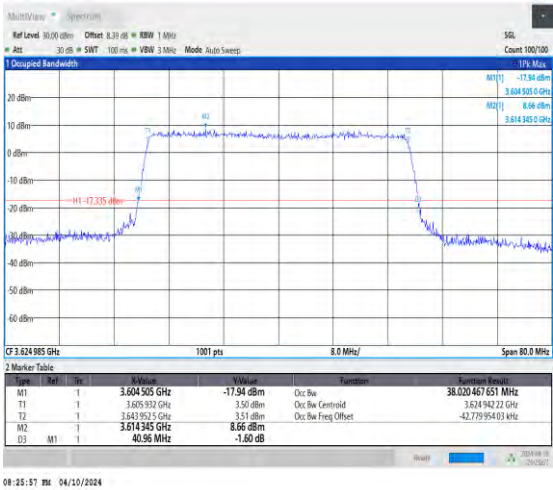
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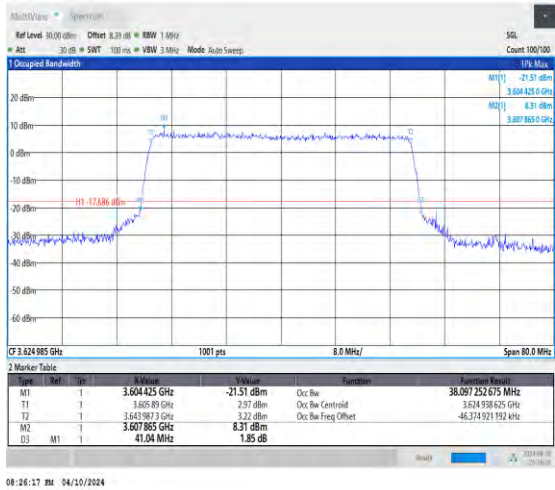
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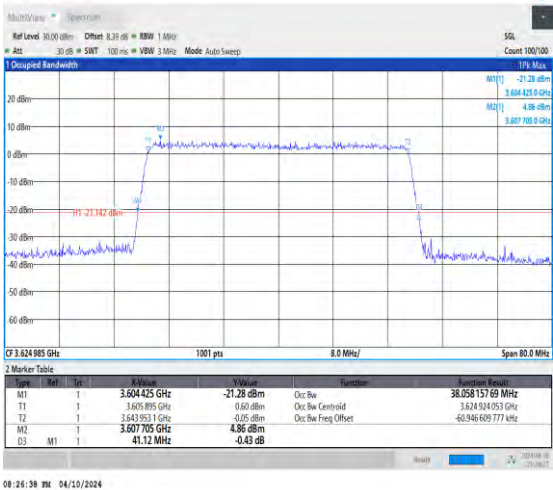
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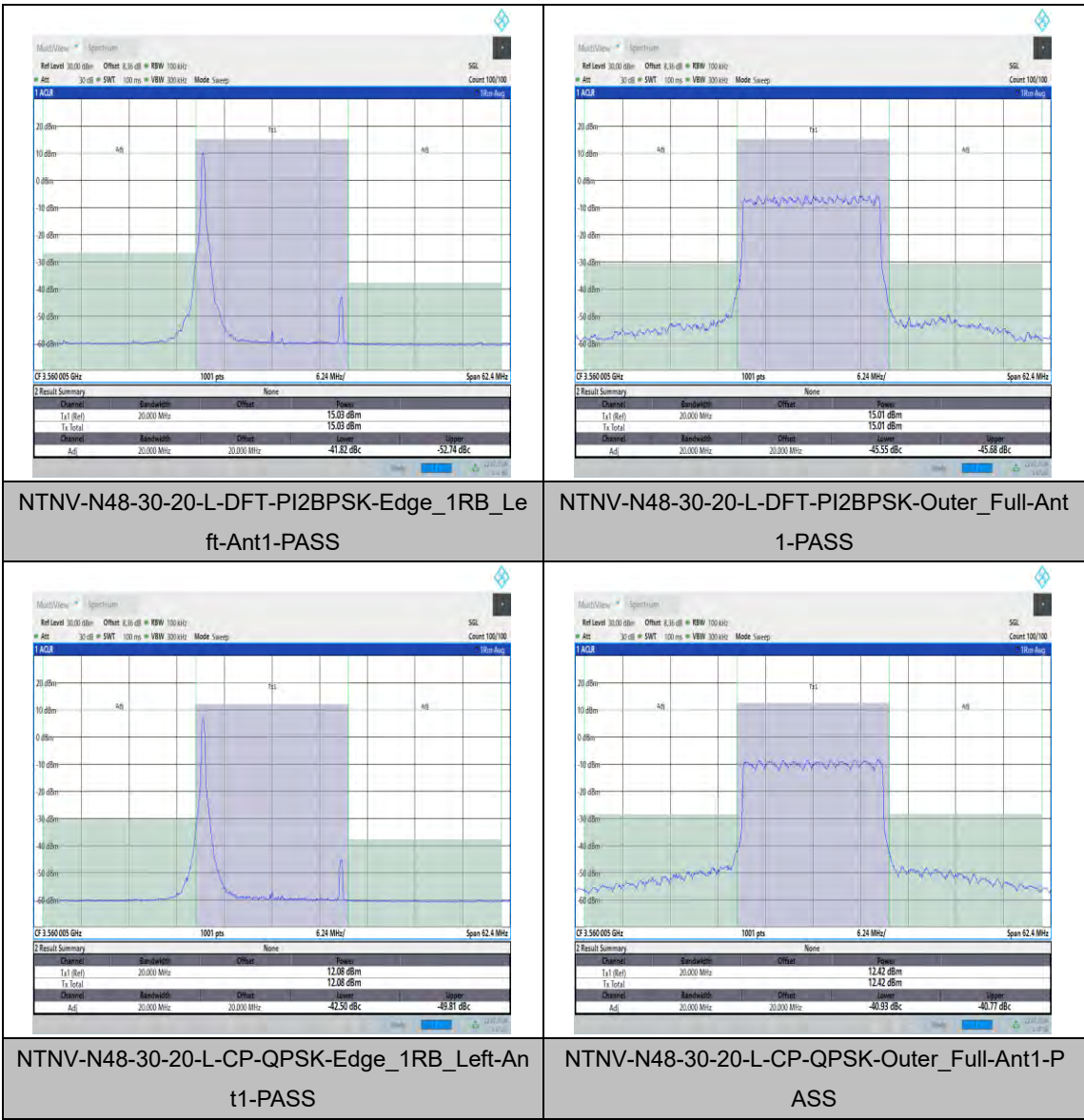
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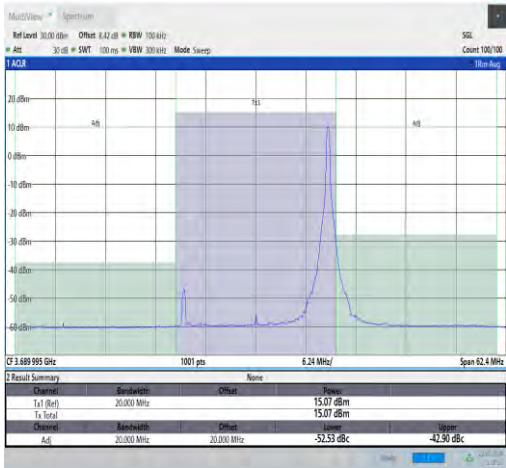


NTNV\_N48\_30\_40\_M\_TID9\_Ant1#1

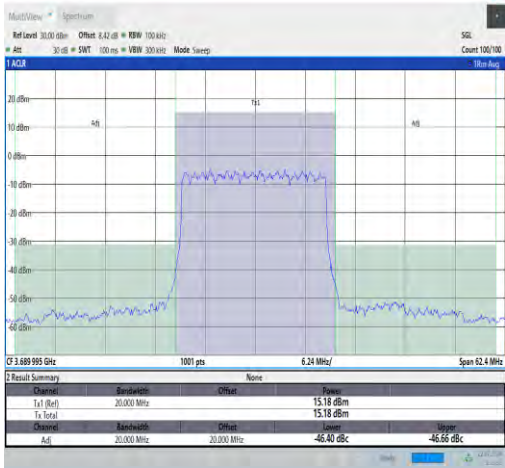
## 5. ACLR for SA

### Test Graphs

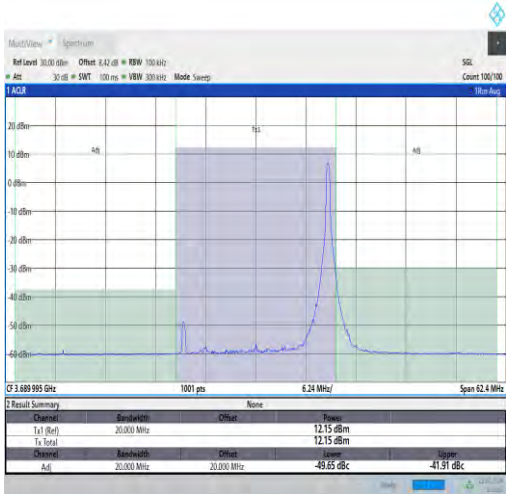




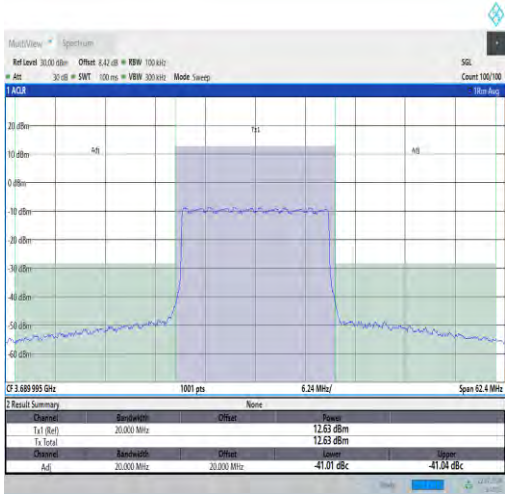
NTNV-N48-30-20-H-DFT-PI2BPSK-Edge\_1RB\_Ri  
ght-Ant1-PASS



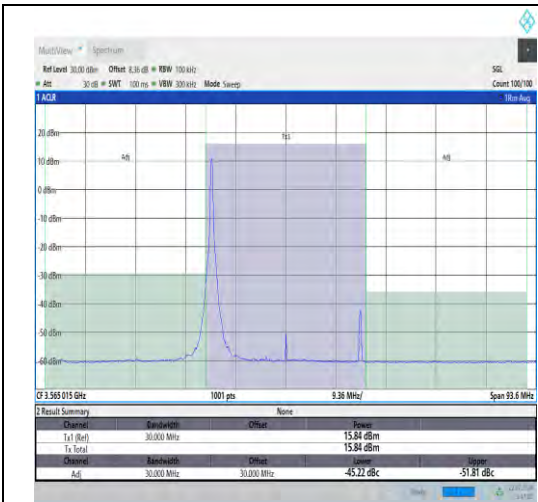
NTNV-N48-30-20-H-DFT-PI2BPSK-Outer\_Full-Ant  
1-PASS



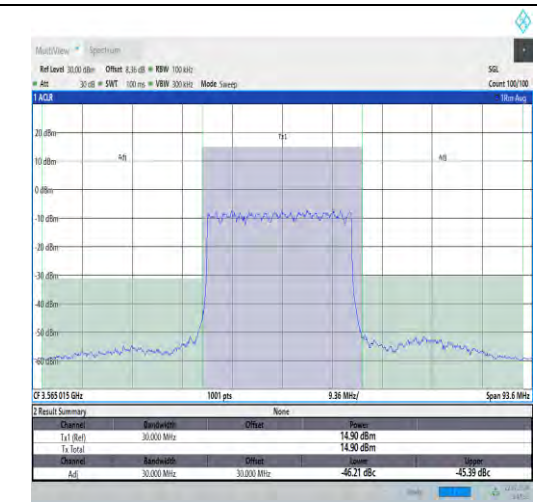
NTNV-N48-30-20-H-CP-QPSK-Edge\_1RB\_Righ t-Ant1-PASS



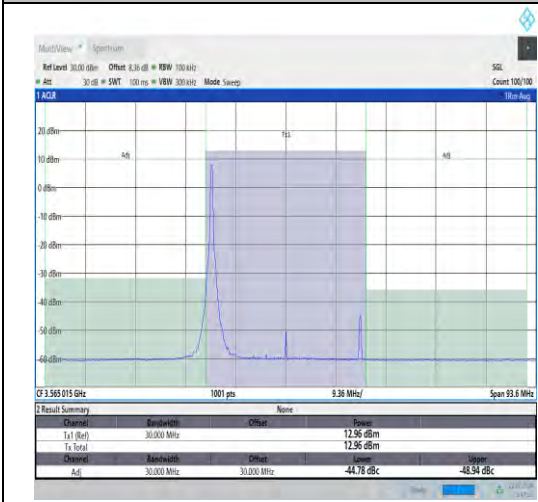
NTNV-N48-30-20-H-CP-QPSK-Outer\_Full-Ant1-P  
ASS



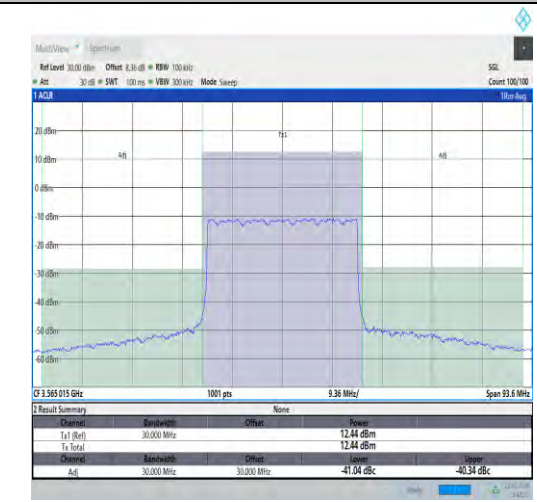
NTNV-N48-30-30-L-DFT-PI2BPSK-Edge\_1RB\_Le ft-Ant1-PASS



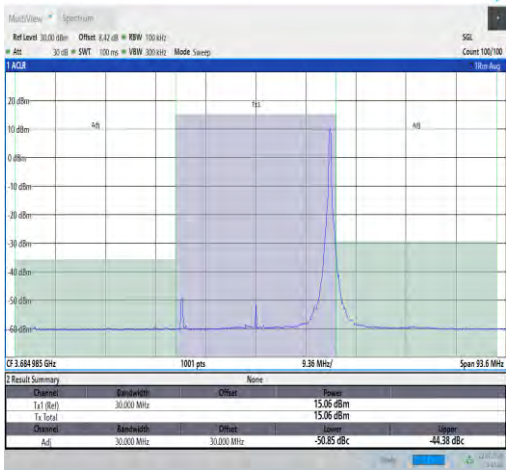
NTNV-N48-30-30-L-DFT-PI2BPSK-Outer\_Full-Ant 1-PASS



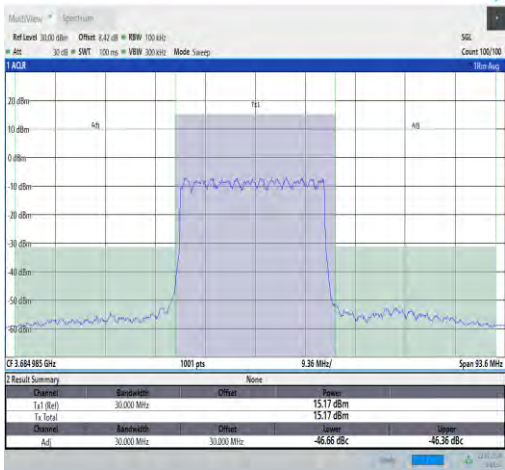
NTNV-N48-30-30-L-CP-QPSK-Edge\_1RB\_Left-Ant1-PASS



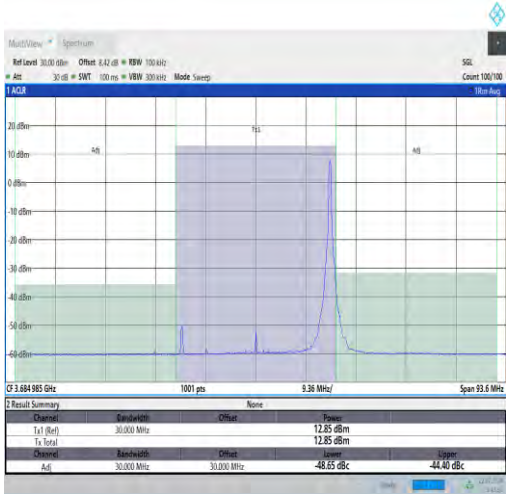
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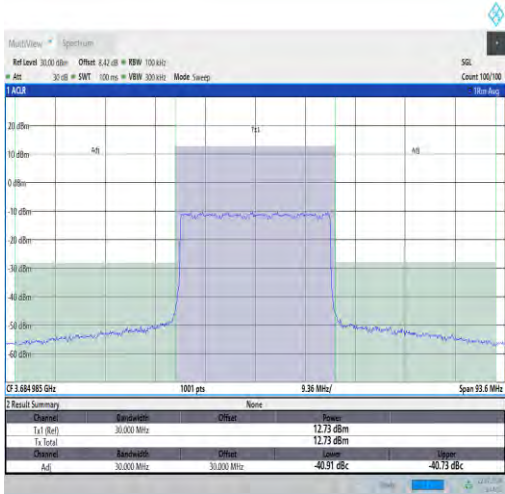
NTNV-N48-30-30-H-DFT-PI2BPSK-Edge\_1RB\_Ri ght-Ant1-PASS



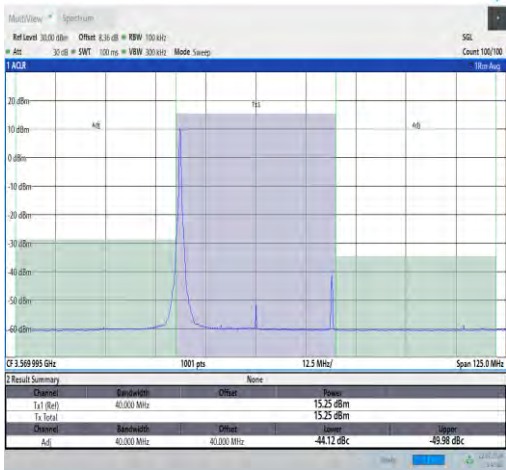
NTNV-N48-30-30-H-DFT-PI2BPSK-Outer\_Full-Ant 1-PASS



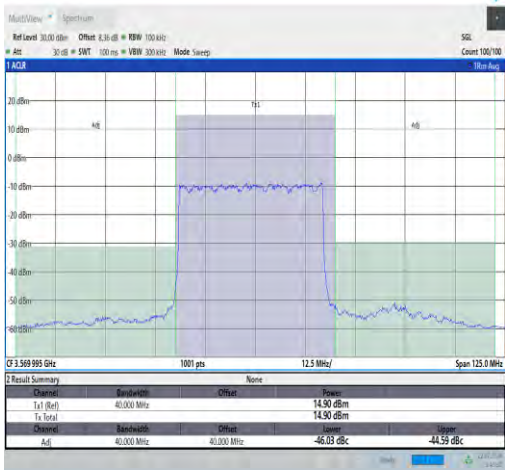
NTNV-N48-30-30-H-CP-QPSK-Edge\_1RB\_Right-Ant1-PASS



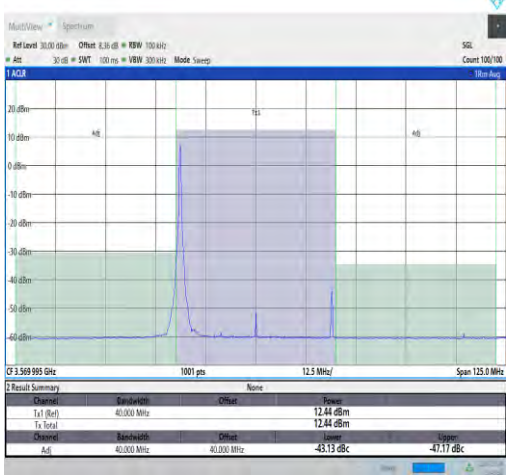
NTNV-N48-30-30-H-CP-QPSK-Outer\_Full-Ant1-PASS



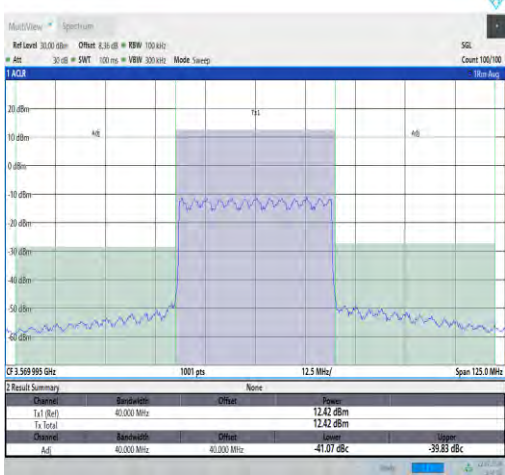
NTNV-N48-30-40-L-DFT-PI2BPSK-Edge\_1RB\_Le ft-Ant1-PASS



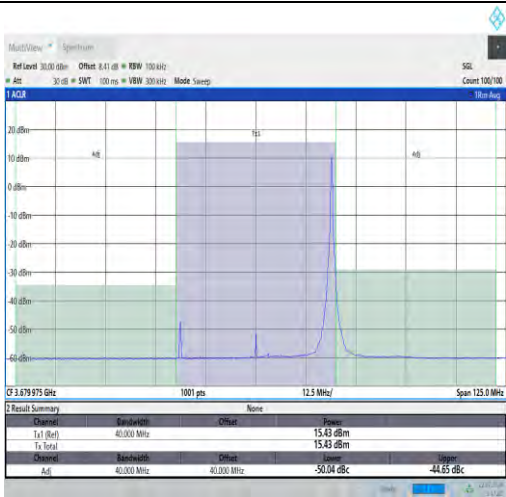
NTNV-N48-30-40-L-DFT-PI2BPSK-Outer\_Full-Ant 1-PASS



NTNV-N48-30-40-L-CP-QPSK-Edge\_1RB\_Left-Ant1-PASS



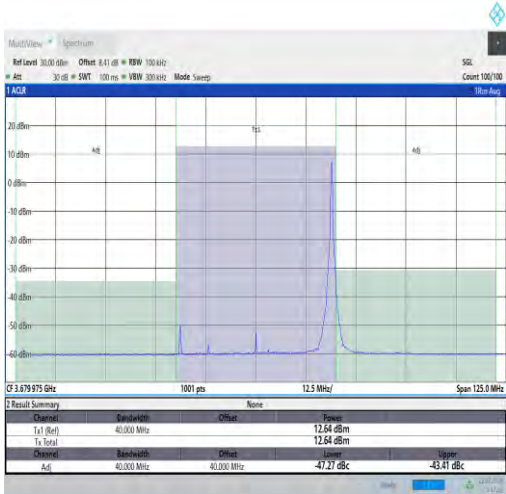
NTNV-N48-30-40-L-CP-QPSK-Outer\_Full-Ant1-PASS



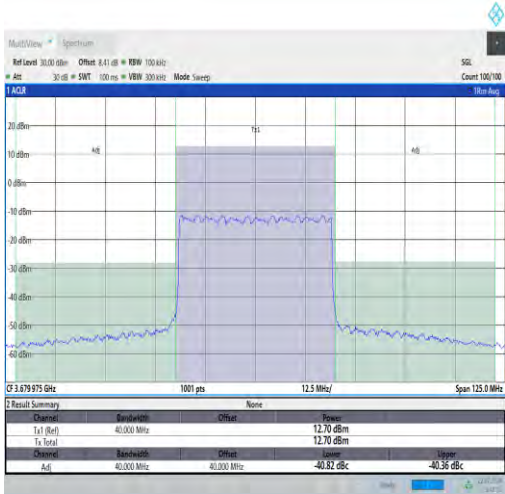
NTNV-N48-30-40-H-DFT-PI2BPSK-Edge\_1RB\_Ri  
ght-Ant1-PASS



NTNV-N48-30-40-H-DFT-PI2BPSK-Outer\_Full-Ant  
1-PASS



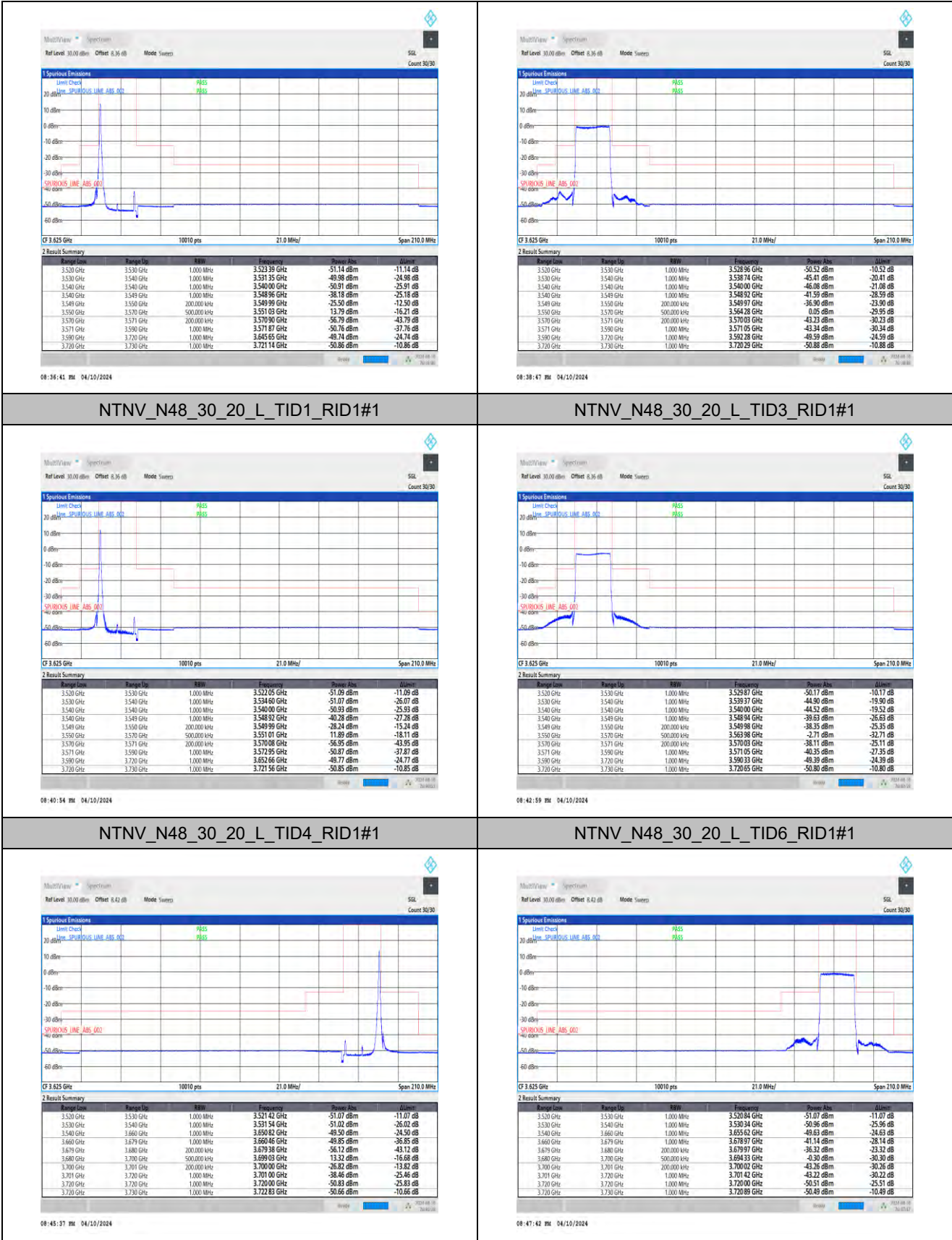
NTNV-N48-30-40-H-CP-QPSK-Edge\_1RB\_Right-  
Ant1-PASS



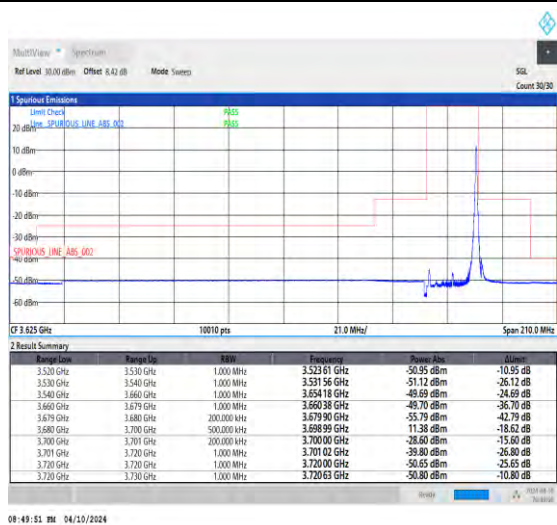
NTNV-N48-30-40-H-CP-QPSK-Outer\_Full-Ant1-P  
ASS

# 6. Band Edge for SA

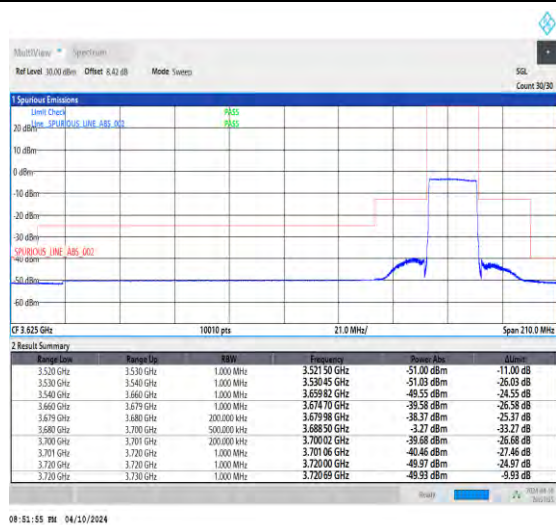
## Test Graphs



NTNV\_N48\_30\_20\_H\_TID2\_RID1#1

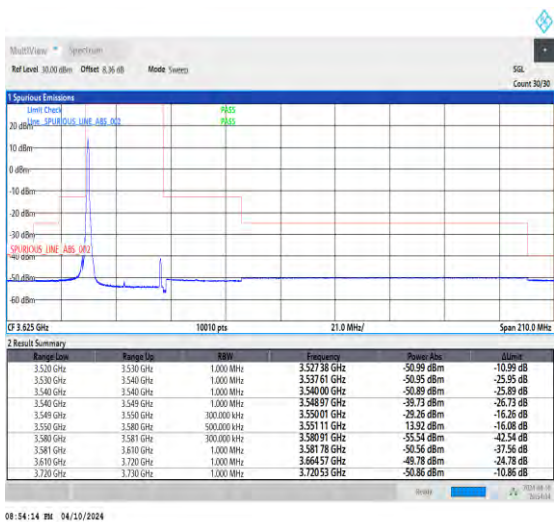


NTNV\_N48\_30\_20\_H\_TID3\_RID1#1

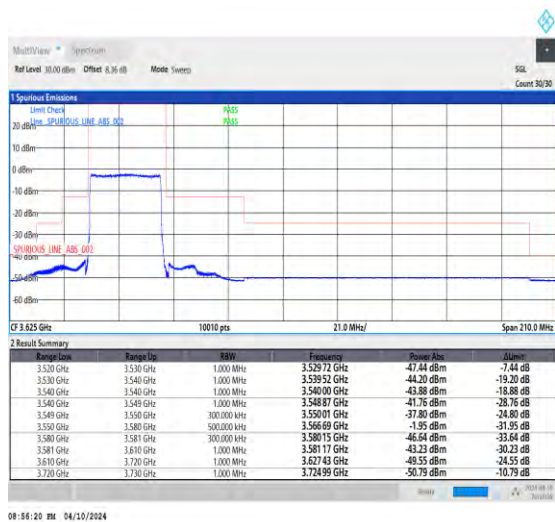


NTNV\_N48\_30\_20\_H\_TID5\_RID1#1

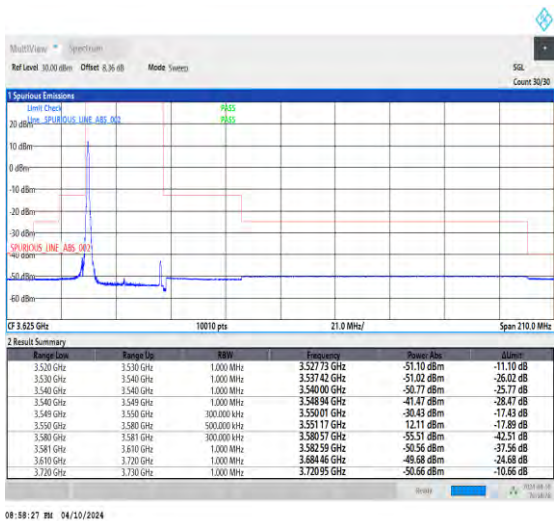
NTNV\_N48\_30\_20\_H\_TID6\_RID1#1



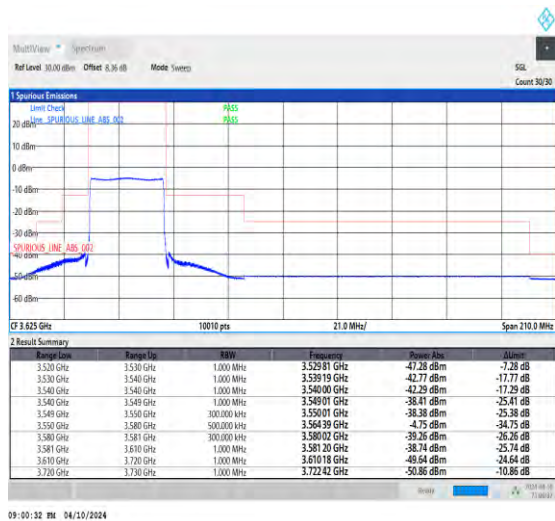
NTNV\_N48\_30\_30\_L\_TID1\_RID1#1



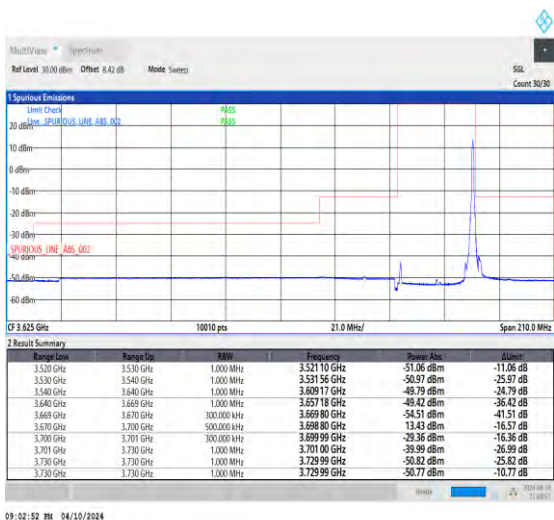
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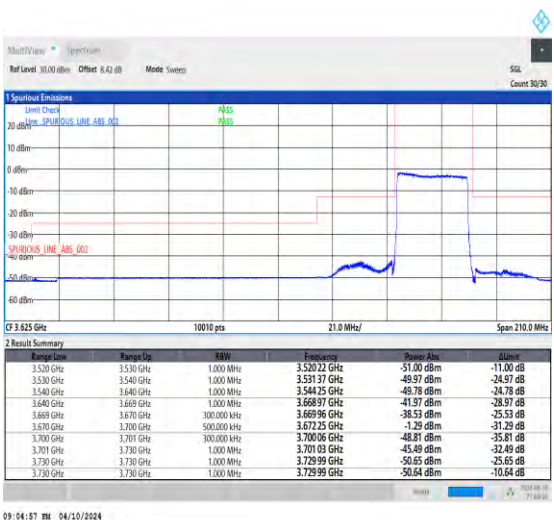
NTNV\_N48\_30\_30\_L\_TID4\_RID1#1



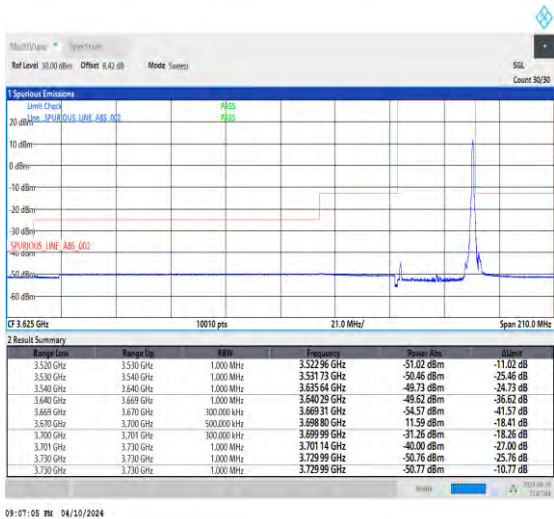
NTNV\_N48\_30\_30\_L\_TID6\_RID1#1



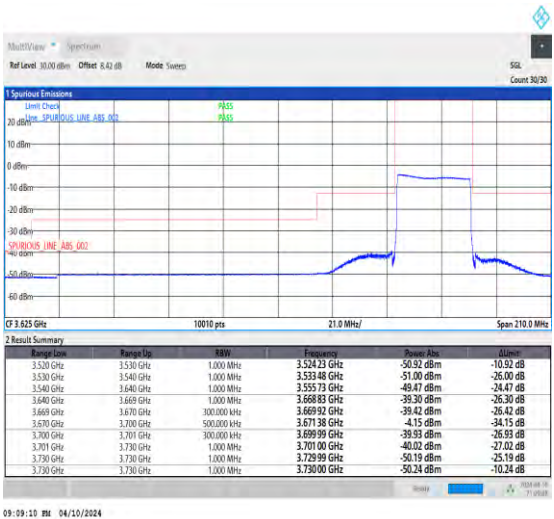
NTNV\_N48\_30\_30\_H\_TID2\_RID1#1



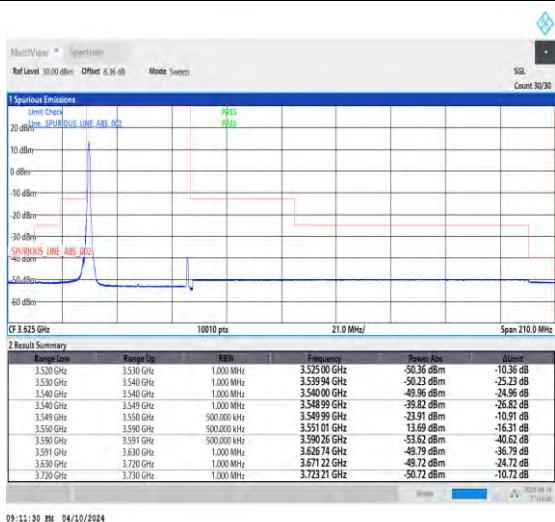
NTNV\_N48\_30\_30\_H\_TID3\_RID1#1



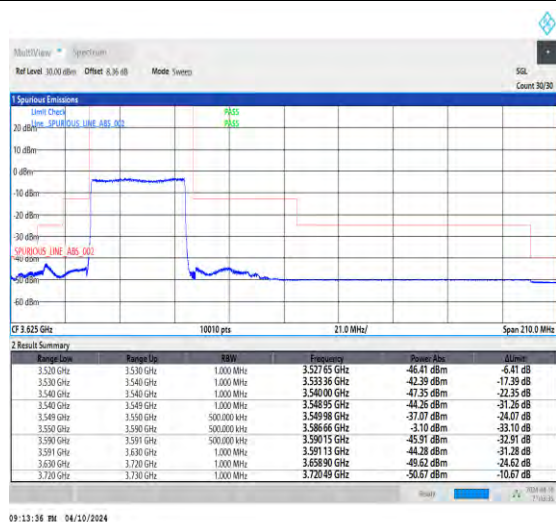
NTNV\_N48\_30\_30\_H\_TID5\_RID1#1



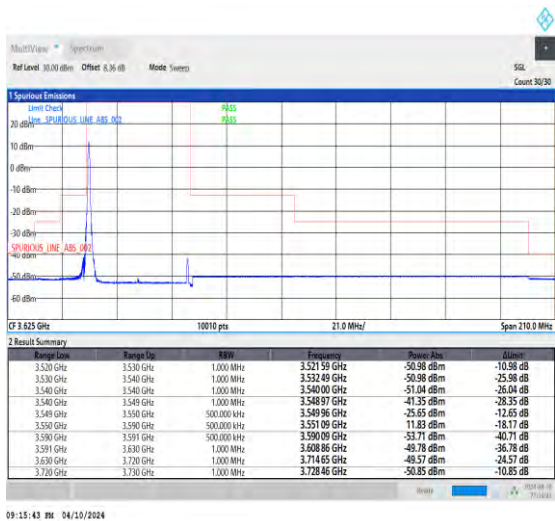
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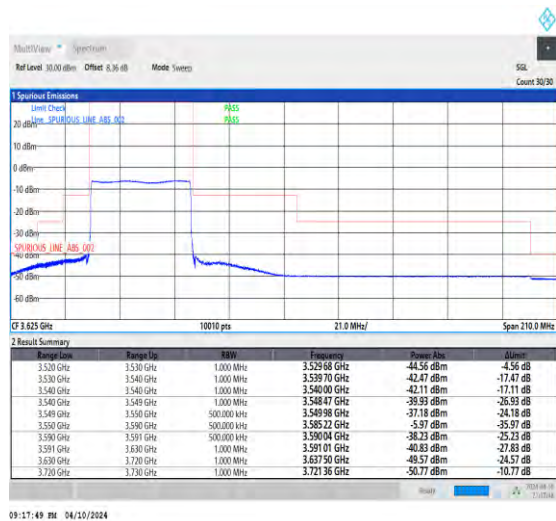
NTNV\_N48\_30\_40\_L\_TID1\_RID1#1



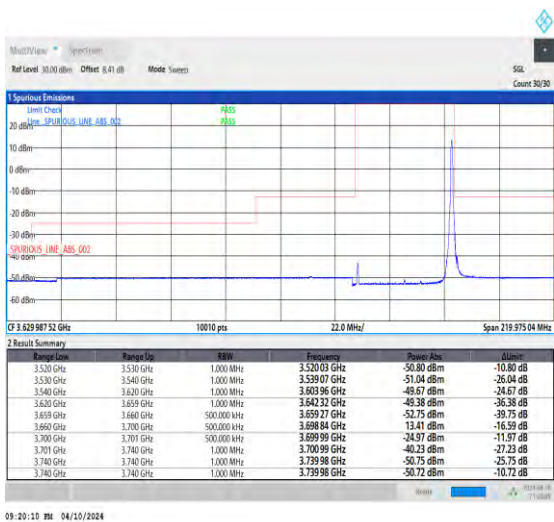
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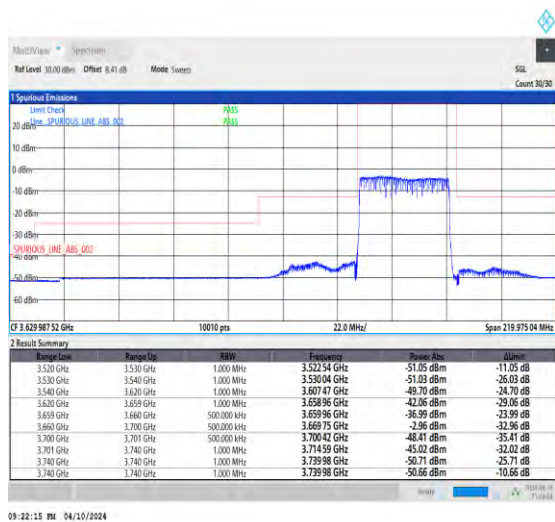
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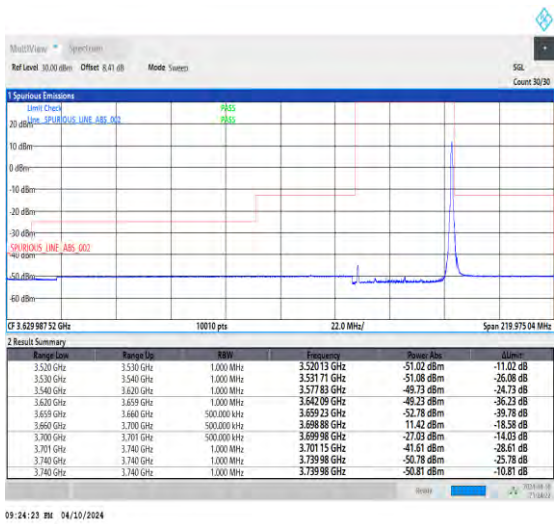
NTNV\_N48\_30\_40\_L\_TID6\_RID1#1



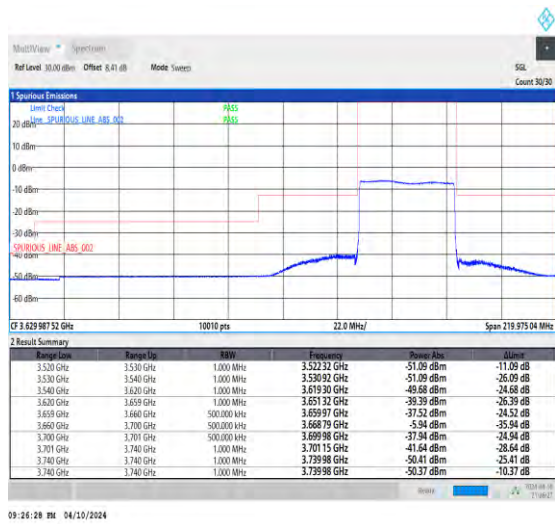
NTNV\_N48\_30\_40\_H\_TID2\_RID1#1



NTNV\_N48\_30\_40\_H\_TID3\_RID1#1



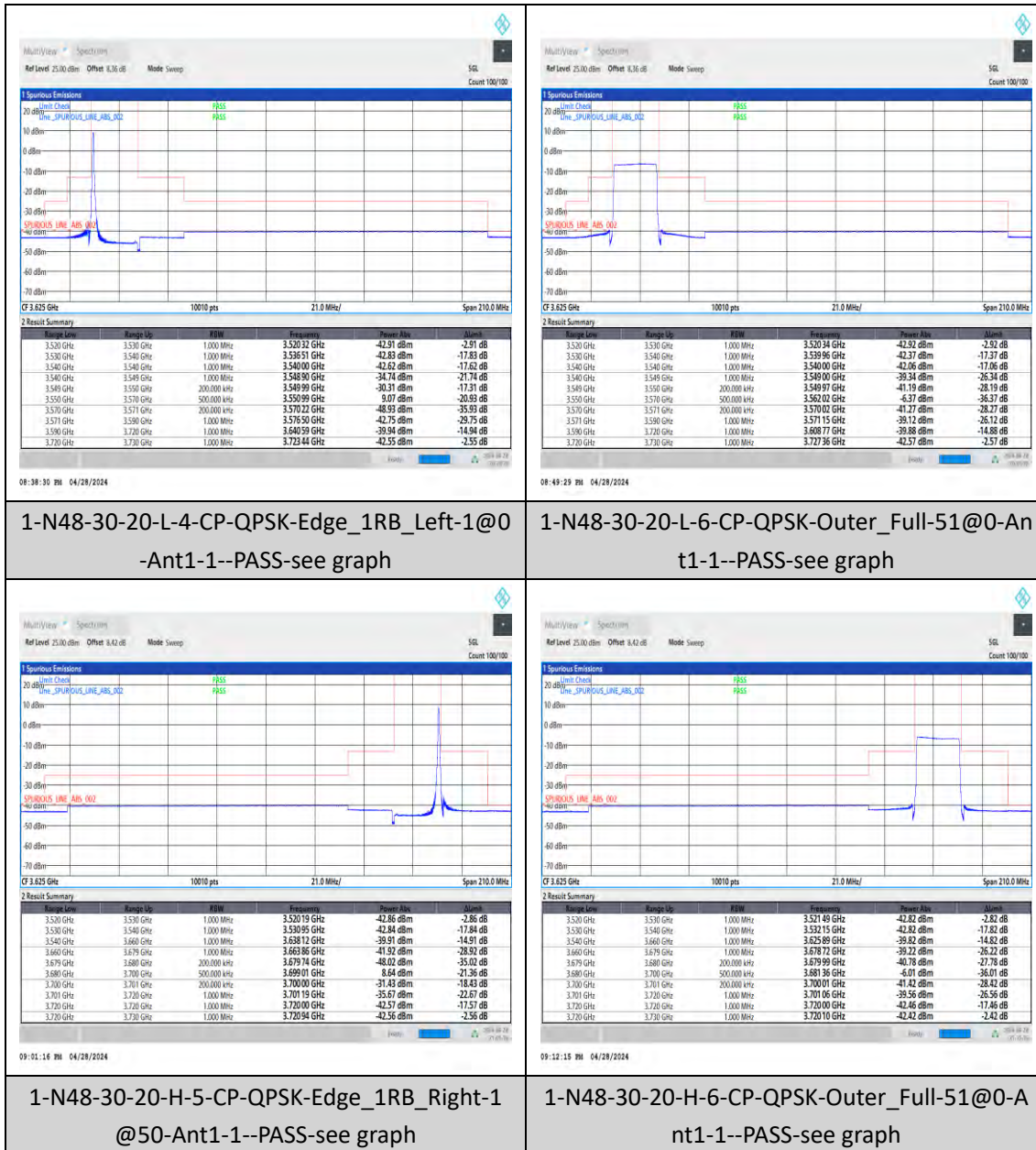
NTNV\_N48\_30\_40\_H\_TID5\_RID1#1

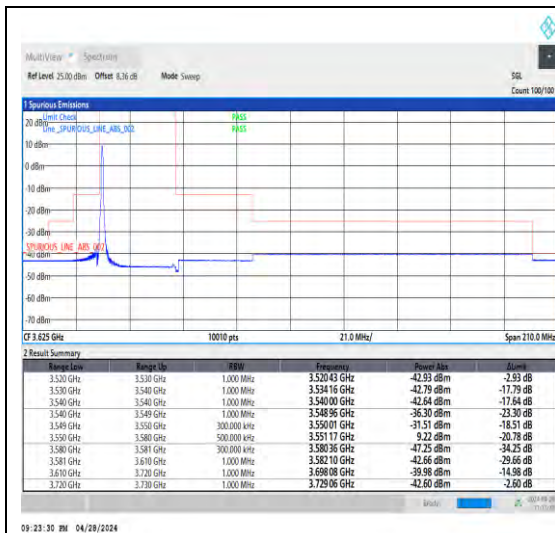


NTNV\_N48\_30\_40\_H\_TID6\_RID1#1

## 7. Band Edge for MIMO ANT1

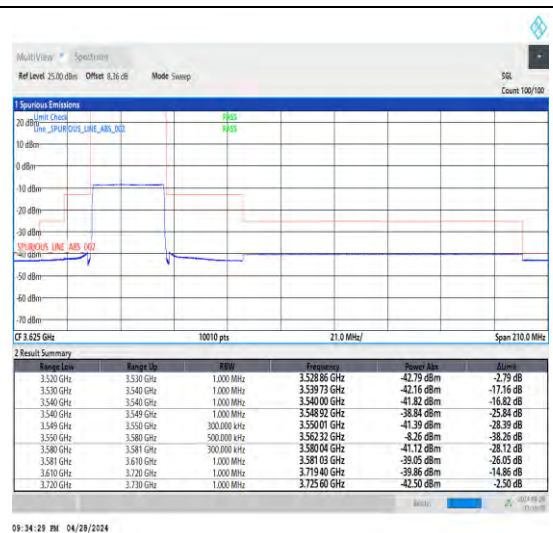
### Test Graphs





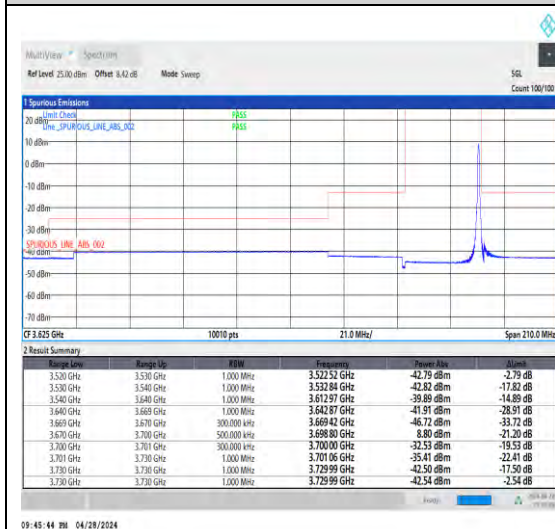
09:23:30 PM 04/28/2024

1-N48-30-30-L-4-CP-QPSK-Edge\_1RB\_Left-1@0  
-Ant1-1--PASS-see graph



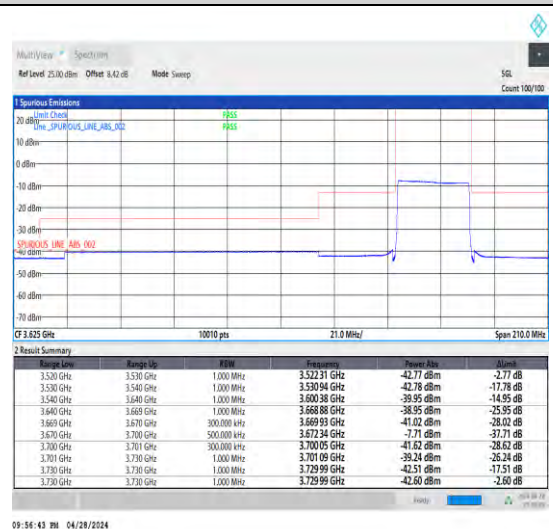
09:34:29 PM 04/28/2024

1-N48-30-30-L-6-CP-QPSK-Outer\_Full-78@0-Ant1-1--PASS-see graph



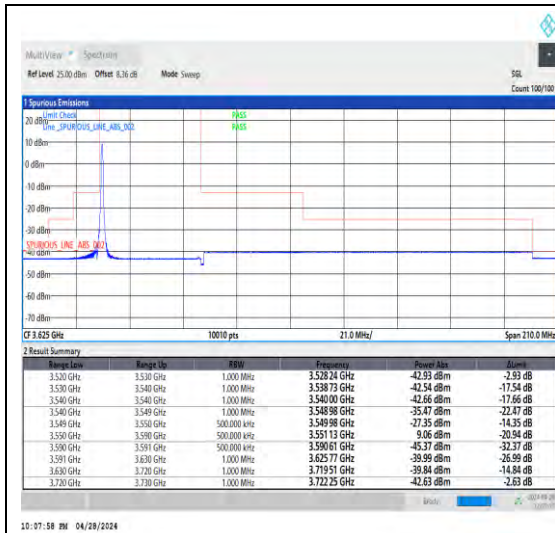
09:45:44 PM 04/28/2024

1-N48-30-30-H-5-CP-QPSK-Edge\_1RB\_Right-1@77-Ant1-1--PASS-see graph



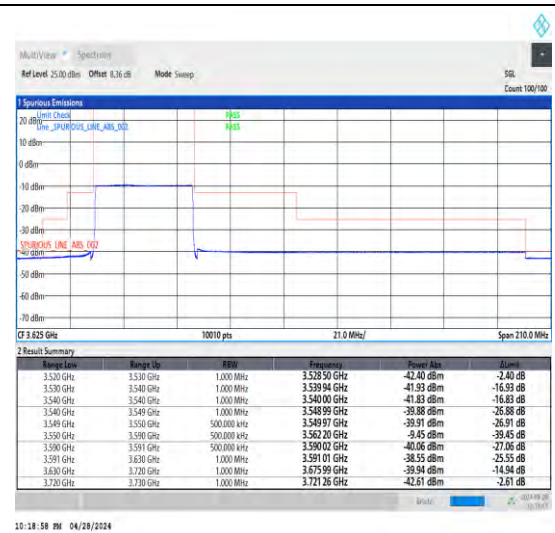
09:56:43 PM 04/28/2024

1-N48-30-30-H-6-CP-QPSK-Outer\_Full-78@0-Ant1-1--PASS-see graph



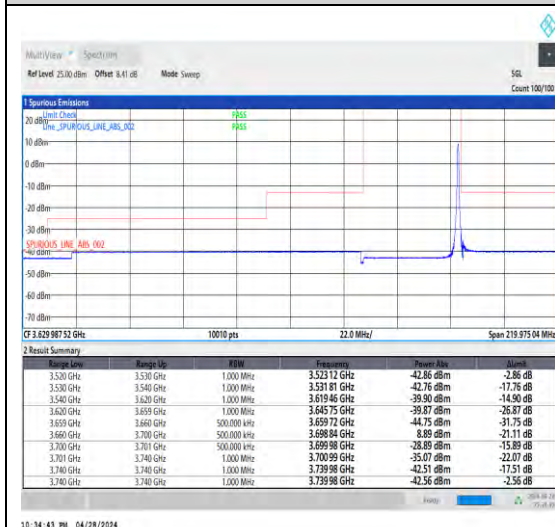
10:07:58 PM 04/28/2024

1-N48-30-40-L-4-CP-QPSK-Edge\_1RB\_Left-1@0  
-Ant1-1--PASS-see graph



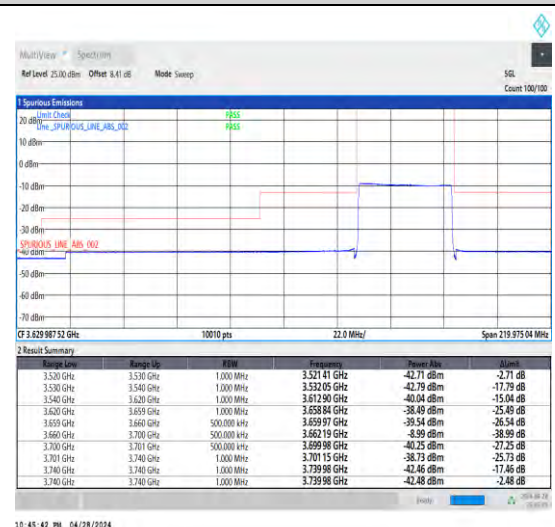
10:18:58 PM 04/28/2024

1-N48-30-40-L-6-CP-QPSK-Outer\_Full-106@0-A  
nt1-1--PASS-see graph



10:34:43 PM 04/28/2024

1-N48-30-40-H-5-CP-QPSK-Edge\_1RB\_Right-1  
@105-Ant1-1--PASS-see graph

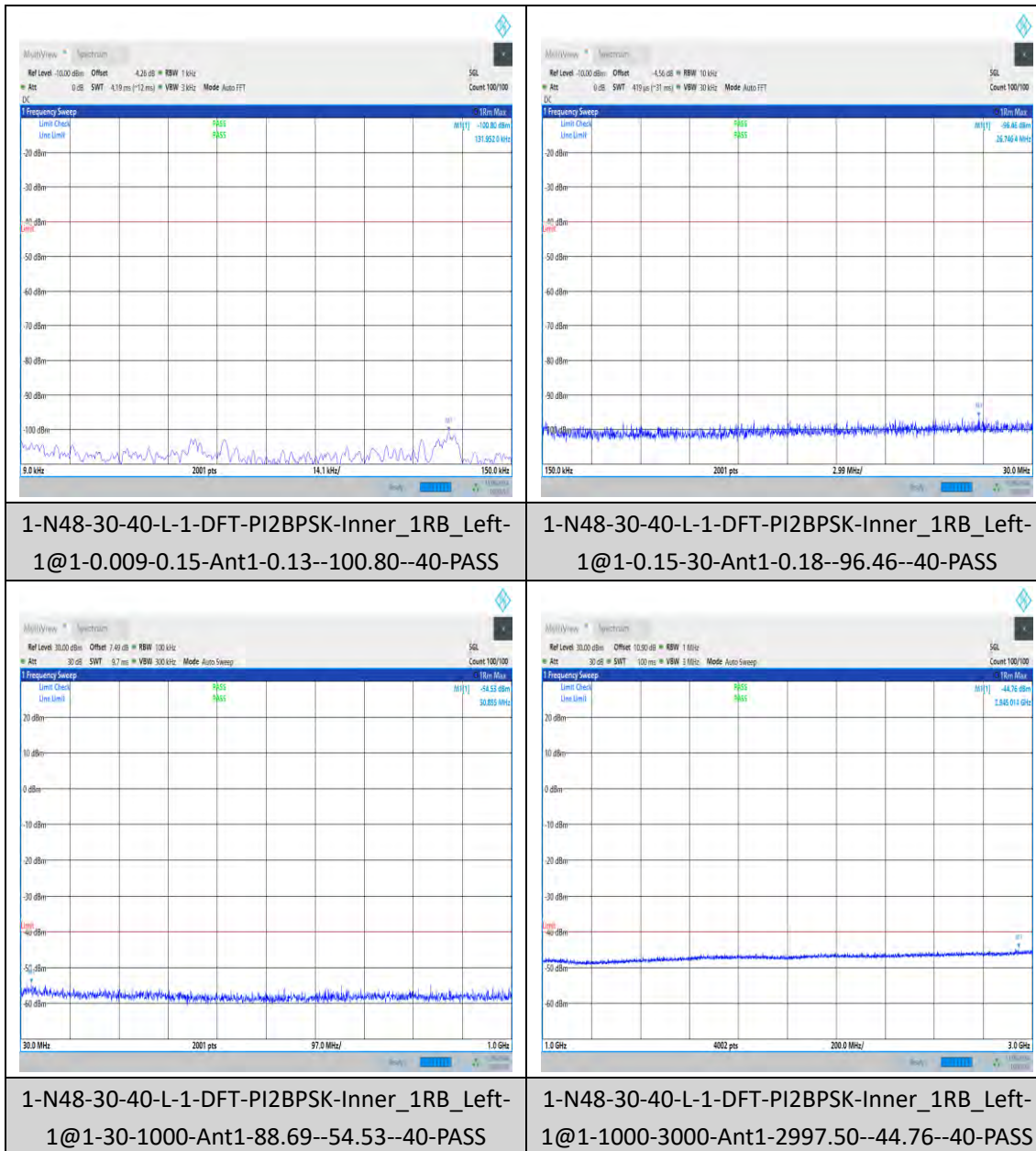


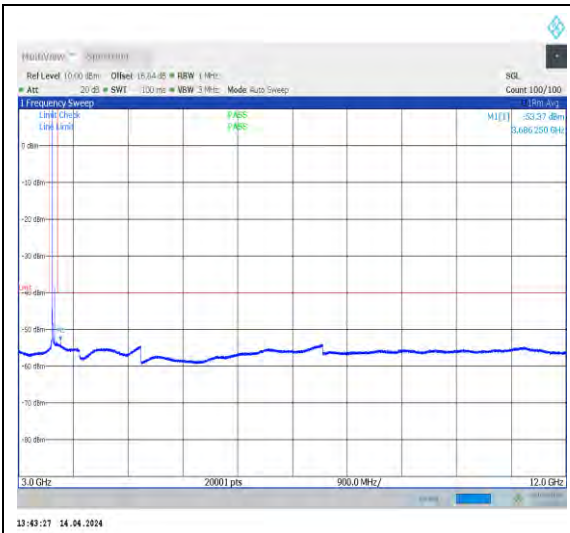
10:45:42 PM 04/28/2024

1-N48-30-40-H-6-CP-QPSK-Outer\_Full-106@0-A  
Ant1-1--PASS-see graph

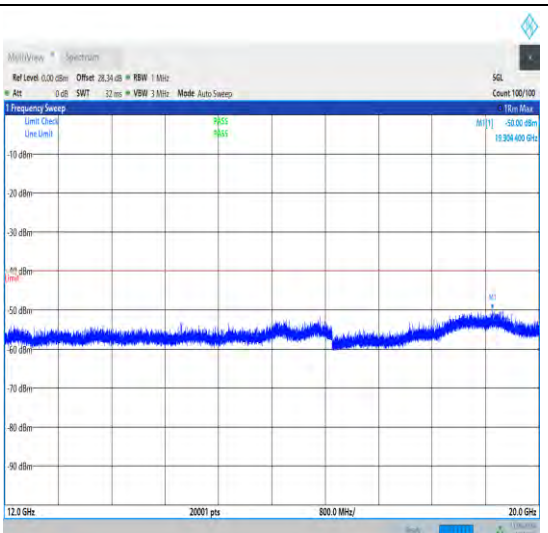
## 8. Conducted Spurious Emission for SA

### Test Graphs

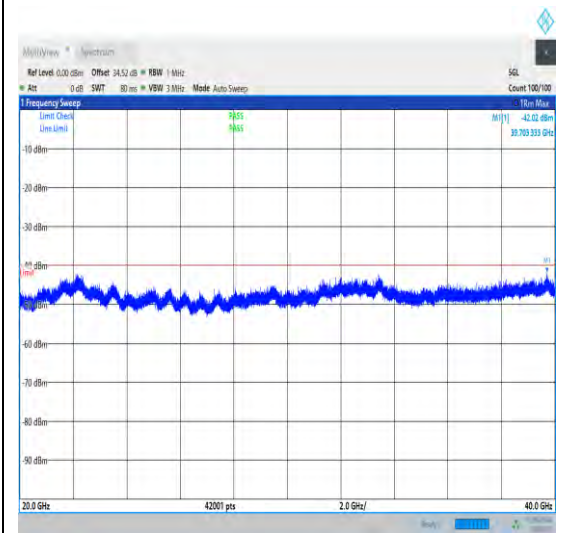




1-N48-30-40-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-3000-12000-Ant1-3257.40--35.84--40-FAI  
L



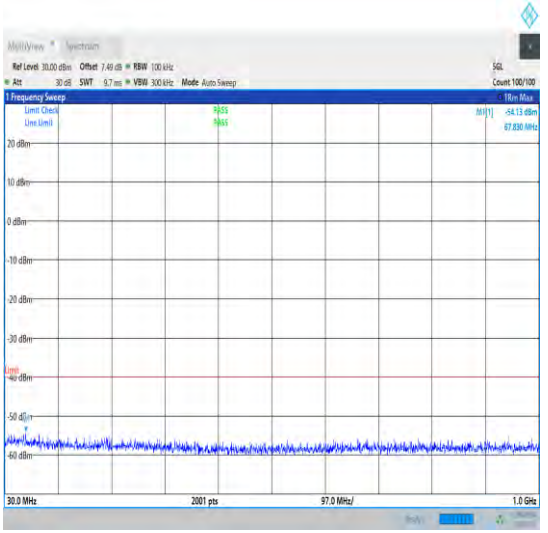
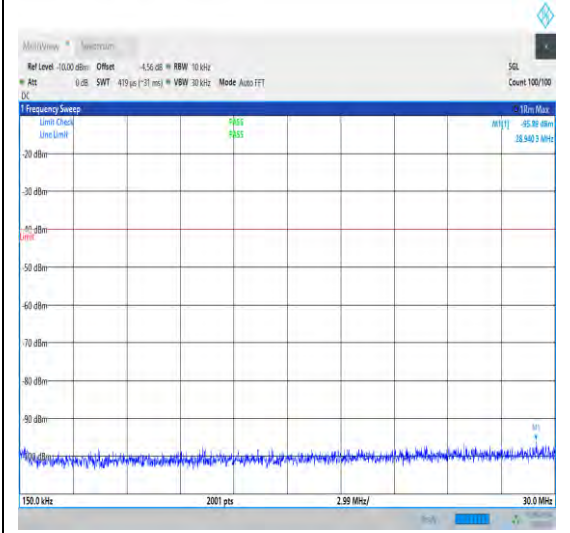
1-N48-30-40-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-12000-20000-Ant1-18851.20--50.00--40-P  
ASS

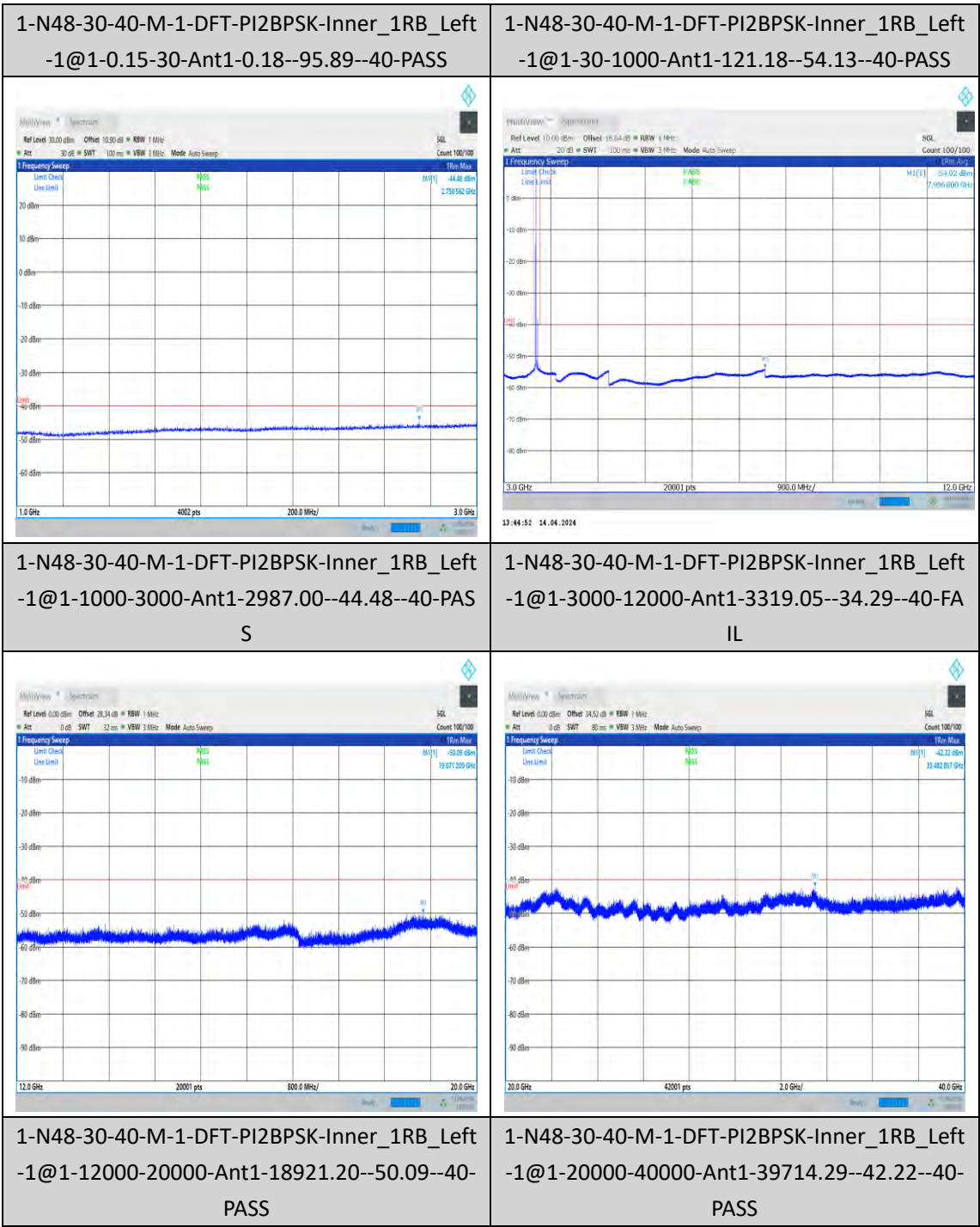


1-N48-30-40-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-20000-40000-Ant1-33430.00--42.02--40-P  
ASS

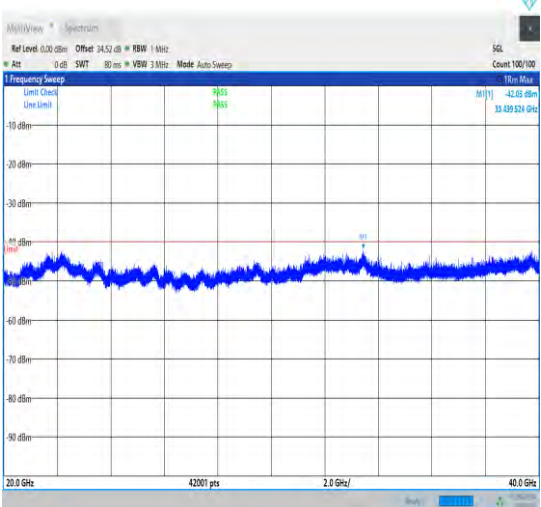


1-N48-30-40-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.009-0.15-Ant1-0.13--101.87--40-PASS



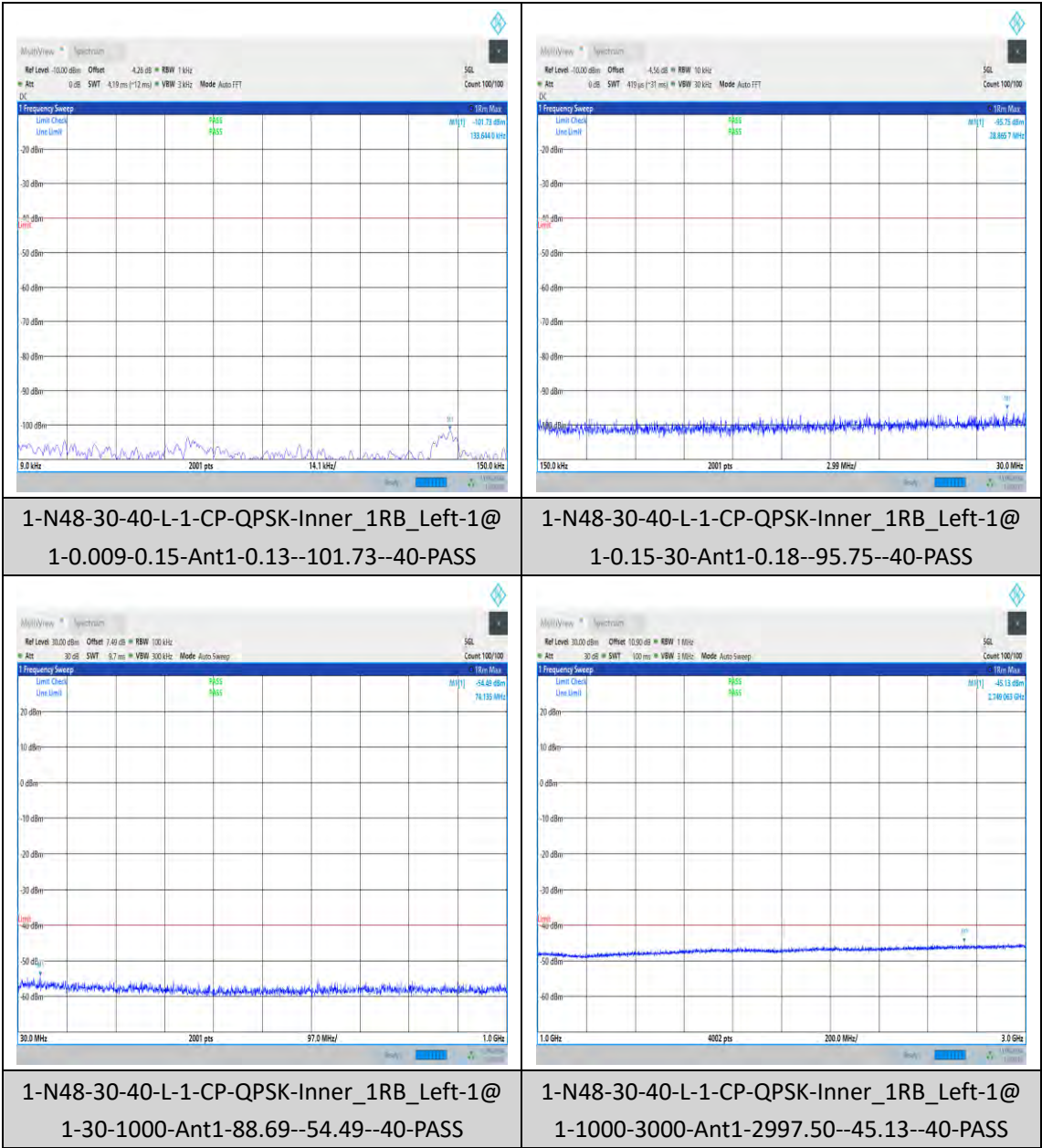


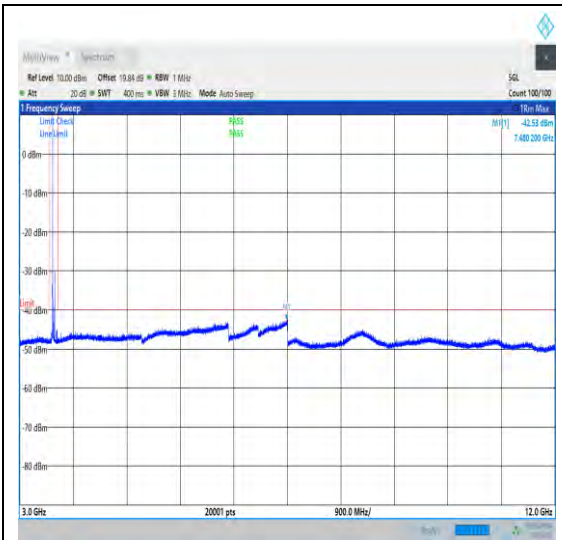


| L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ASS |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|  <p>The screenshot shows a spectrum analyzer interface. At the top, it says 'MultiView' and 'Spectrum'. Below that, 'Ref Level: 0.00 dBm', 'Offset: 24.52 dB', 'RBW: 1 kHz', 'Sweep: 100 ms', 'VBW: 3 kHz', 'Mode: Auto Sweep', and 'Count: 100/100'. The main display area shows a blue trace representing the signal spectrum, fluctuating between approximately 30 dBm and 40 dBm. The x-axis is labeled '20.0 GHz' and '42001 pts'. The y-axis is labeled 'dBm' and ranges from -10 to 50. A red horizontal line is drawn at approximately 35 dBm. The text 'Line Limit' is visible in the top left of the plot area. The bottom status bar shows '2.0 GHz' and '40.0 GHz'.</p> |     |
| 1-N48-30-40-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-20000-40000-Ant1-33364.29--42.03--40-P<br>ASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |

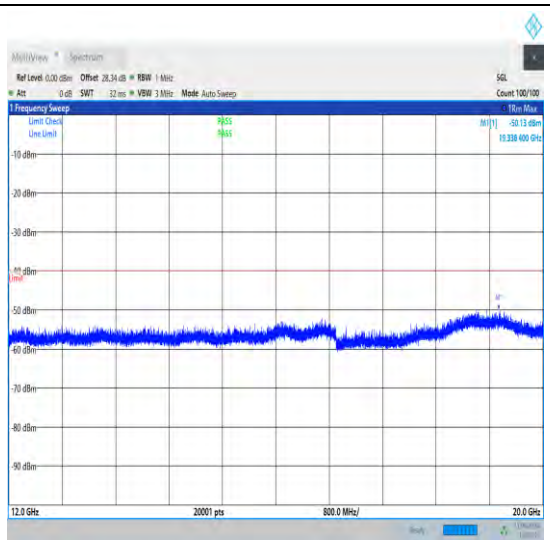
# 9. Conducted Spurious Emission for SAfor MIMO ANT1

## Test Graphs

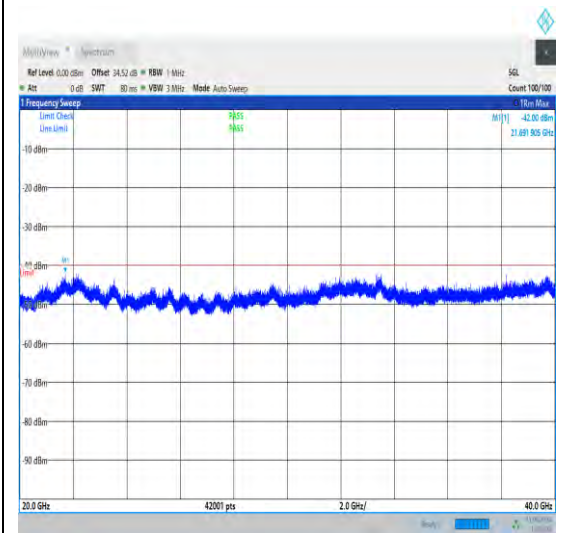




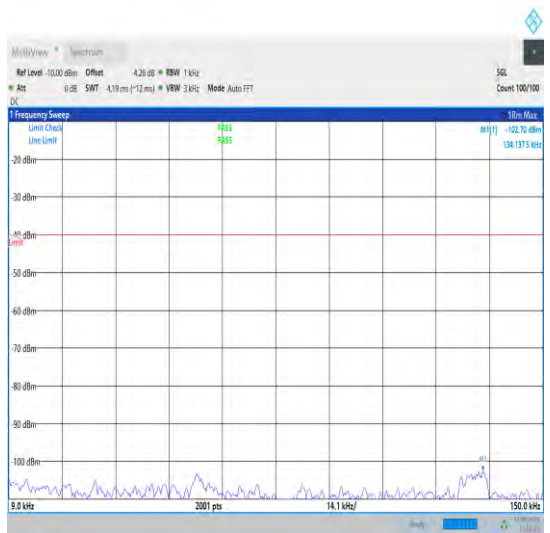
1-N48-30-40-L-1-CP-QPSK-Inner\_1RB\_Left-1@  
1-3000-12000-Ant1-3257.40--40.78--40-PASS



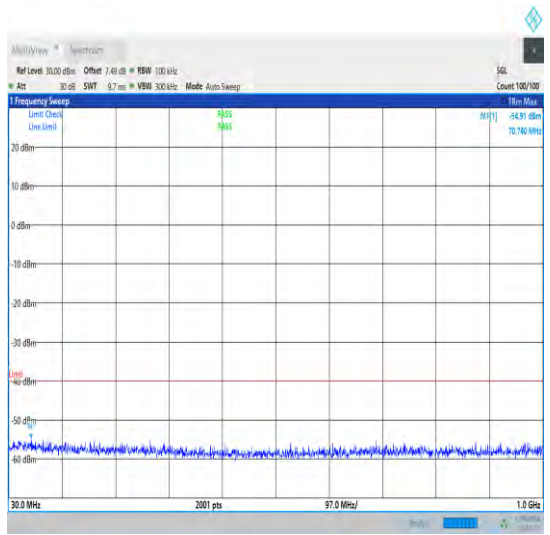
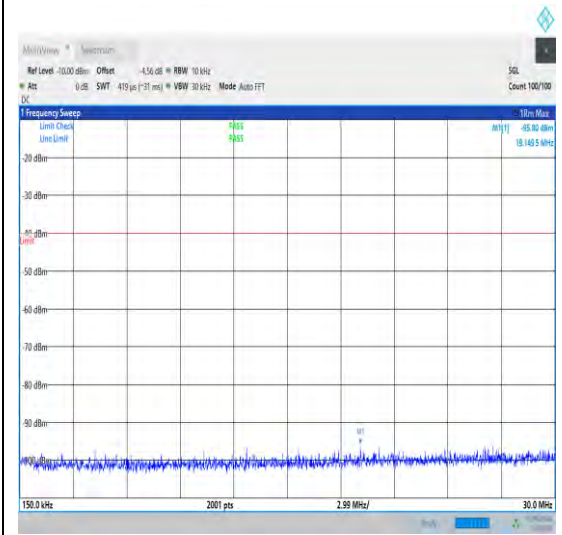
1-N48-30-40-L-1-CP-QPSK-Inner\_1RB\_Left-1@  
1-12000-20000-Ant1-18851.20--50.13--40-PASS  
S

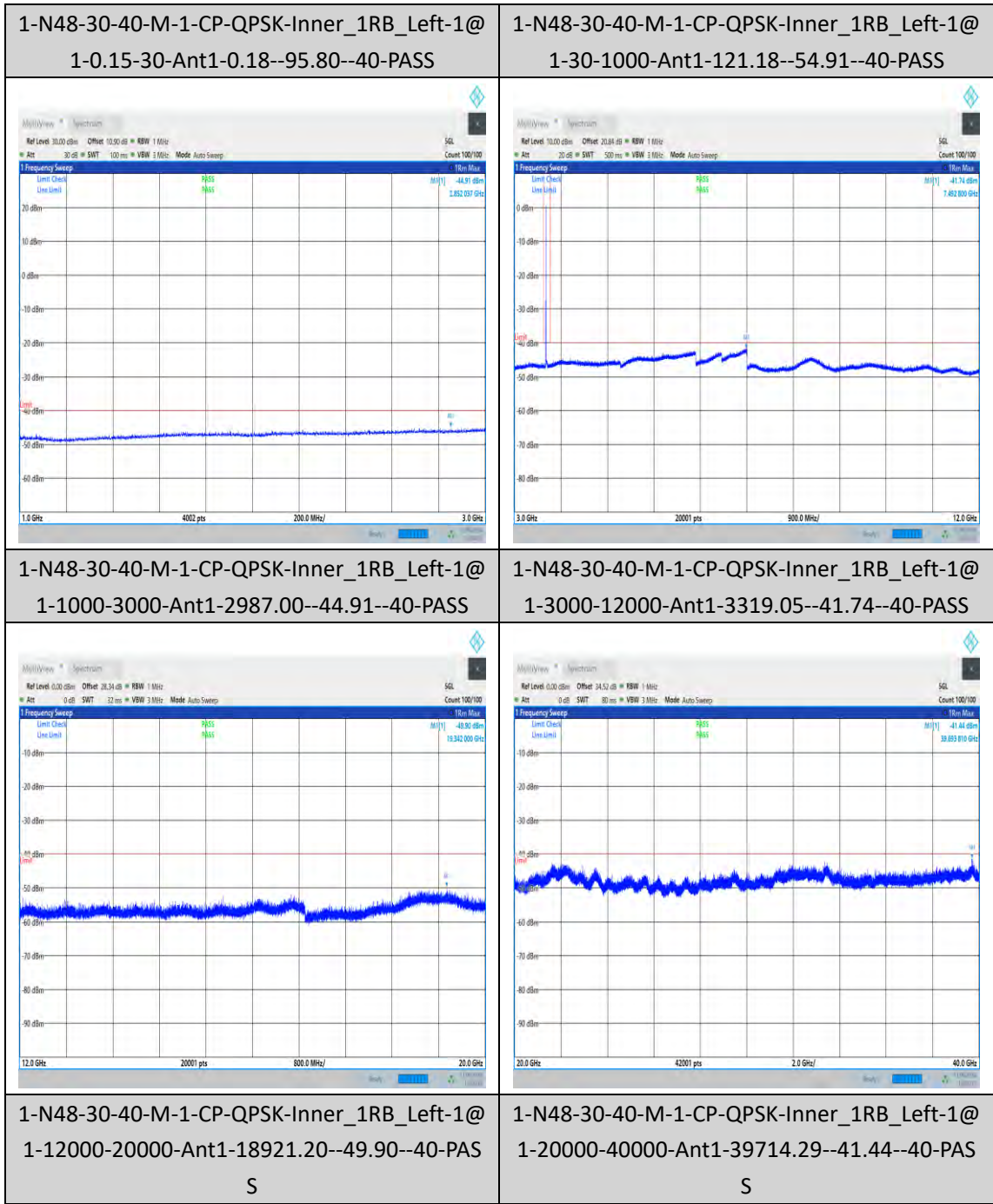


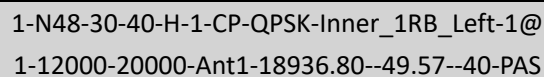
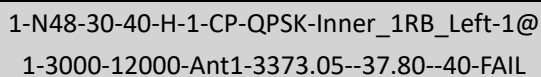
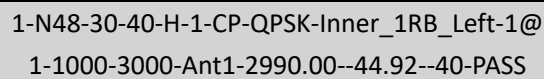
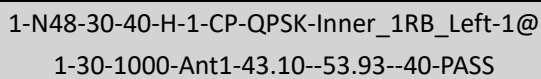
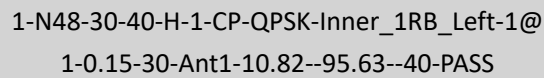
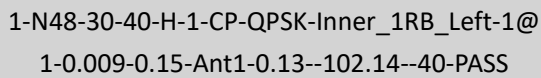
1-N48-30-40-L-1-CP-QPSK-Inner\_1RB\_Left-1@  
1-20000-40000-Ant1-33430.00--42.00--40-PASS  
S



1-N48-30-40-M-1-CP-QPSK-Inner\_1RB\_Left-1@  
1-0.009-0.15-Ant1-0.13--102.70--40-PASS









## 10. Frequency Stability for SA

### Test Result

#### Frequency Error VS. Voltage

| Voltage |     |           |             |         |            |         |             |               |                 |         |
|---------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band    | SCS | Bandwidth | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | VH      | NT          | 3.400000      | 0.000938        | PASS    |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | VN      | NT          | 9.600000      | 0.002648        | PASS    |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | VL      | NT          | -1.800000     | -0.000497       | PASS    |
| N48     | 30  | 40        | CP-QPSK     | M       | Outer_Full | VH      | NT          | -5.900000     | -0.001628       | PASS    |
| N48     | 30  | 40        | CP-QPSK     | M       | Outer_Full | VN      | NT          | 2.500000      | 0.000690        | PASS    |
| N48     | 30  | 40        | CP-QPSK     | M       | Outer_Full | VL      | NT          | 3.400000      | 0.000938        | PASS    |

#### Frequency Error VS. Temperature

| Voltage |     |           |             |         |            |         |             |               |                 |         |
|---------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band    | SCS | Bandwidth | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | -30         | -3.900000     | -0.001076       | PASS    |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | -20         | 6.100000      | 0.001683        | PASS    |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | -10         | 4.100000      | 0.001131        | PASS    |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | 0           | 4.300000      | 0.001186        | PASS    |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | 10          | -0.200000     | -0.000055       | PASS    |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | 20          | -3.700000     | -0.001021       | PASS    |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | 30          | 11.700000     | 0.003228        | PASS    |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | 40          | 3.300000      | 0.000910        | PASS    |
| N48     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | 50          | -2.600000     | -0.000717       | PASS    |
| N48     | 30  | 40        | CP-QPSK     | M       | Outer_Full | NV      | -30         | -2.400000     | -0.000662       | PASS    |
| N48     | 30  | 40        | CP-QPSK     | M       | Outer_Full | NV      | -20         | 4.000000      | 0.001103        | PASS    |
| N48     | 30  | 40        | CP-QPSK     | M       | Outer_Full | NV      | -10         | 8.700000      | 0.002400        | PASS    |
| N48     | 30  | 40        | CP-QPSK     | M       | Outer_Full | NV      | 0           | 1.000000      | 0.000276        | PASS    |
| N48     | 30  | 40        | CP-QPSK     | M       | Outer_Full | NV      | 10          | 4.500000      | 0.001241        | PASS    |
| N48     | 30  | 40        | CP-QPSK     | M       | Outer_Full | NV      | 20          | 4.400000      | 0.001214        | PASS    |
| N48     | 30  | 40        | CP-QPSK     | M       | Outer_Full | NV      | 30          | -3.300000     | -0.000910       | PASS    |
| N48     | 30  | 40        | CP-QPSK     | M       | Outer_Full | NV      | 40          | 1.600000      | 0.000441        | PASS    |
| N48     | 30  | 40        | CP-QPSK     | M       | Outer_Full | NV      | 50          | -1.600000     | -0.000441       | PASS    |

## 11. Field Strength of Spurious Radiation

For Sample #1:

**Test Band = SA Band48\_ TM1**

**Test Channel = Low**

| Final Data List |                    |                   |                |          |                |                |                |            |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1               | 7156.65            | 42.46             | -43.63         | 35.44    | -60.99         | -40.00         | 20.99          | Horizontal |
| 2               | 8473.4             | 41.62             | -41.69         | 36.82    | -58.51         | -40.00         | 18.51          | Horizontal |
| 3               | 9871.225           | 38.00             | -39.16         | 38.24    | -58.18         | -40.00         | 18.18          | Horizontal |
| 4               | 11914.2            | 35.11             | -37.33         | 39.06    | -58.42         | -40.00         | 18.42          | Horizontal |
| 5               | 13383.9            | 34.72             | -36.22         | 39.94    | -56.83         | -40.00         | 16.83          | Horizontal |
| 6               | 14947.325          | 33.59             | -34.79         | 41.56    | -54.91         | -40.00         | 14.91          | Horizontal |

| Final Data List |                    |                   |                |          |                |                |                |          |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1               | 7069.825           | 42.35             | -43.46         | 35.20    | -61.17         | -40.00         | 21.17          | Vertical |
| 2               | 8188.2             | 41.24             | -42.05         | 36.99    | -59.09         | -40.00         | 19.09          | Vertical |
| 3               | 9224.35            | 38.57             | -39.98         | 36.95    | -59.72         | -40.00         | 19.72          | Vertical |
| 4               | 10168.5            | 36.92             | -39.10         | 38.52    | -58.92         | -40.00         | 18.92          | Vertical |
| 5               | 12059.1            | 35.99             | -37.19         | 39.12    | -57.34         | -40.00         | 17.34          | Vertical |
| 6               | 13596.075          | 34.30             | -36.06         | 40.23    | -56.79         | -40.00         | 16.79          | Vertical |

**Test Band = SA Band48\_ TM1**

**Test Channel = Mid**

| Final Data List |                    |                   |                |          |                |                |                |            |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1               | 7683.35            | 42.29             | -42.92         | 36.66    | -59.23         | -40.00         | 19.23          | Horizontal |
| 2               | 8859.225           | 40.83             | -41.00         | 36.58    | -58.85         | -40.00         | 18.85          | Horizontal |
| 3               | 10158.15           | 37.54             | -39.04         | 38.52    | -58.24         | -40.00         | 18.24          | Horizontal |
| 4               | 11181.075          | 35.48             | -36.82         | 38.69    | -57.91         | -40.00         | 17.91          | Horizontal |
| 5               | 12868.7            | 34.94             | -36.79         | 39.36    | -57.75         | -40.00         | 17.75          | Horizontal |
| 6               | 14609.225          | 32.74             | -35.30         | 41.29    | -56.53         | -40.00         | 16.53          | Horizontal |

| Final Data List |                    |                   |                |          |                |                |                |          |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1               | 7337.2             | 42.50             | -43.13         | 35.94    | -59.94         | -40.00         | 19.94          | Vertical |
| 2               | 8455.575           | 41.13             | -41.61         | 36.83    | -58.91         | -40.00         | 18.91          | Vertical |
| 3               | 9576.25            | 38.69             | -39.38         | 37.65    | -58.30         | -40.00         | 18.30          | Vertical |
| 4               | 10964.3            | 35.63             | -37.67         | 38.60    | -58.70         | -40.00         | 18.70          | Vertical |
| 5               | 12639.275          | 35.21             | -37.05         | 39.29    | -57.81         | -40.00         | 17.81          | Vertical |
| 6               | 14438.45           | 33.57             | -34.75         | 41.15    | -55.29         | -40.00         | 15.29          | Vertical |

**Test Band = SA Band48\_ TM1**

**Test Channel = High**

| Final Data List |                    |                   |                |          |                |                |                |            |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1               | 7674.725           | 41.53             | -42.90         | 36.64    | -59.98         | -40.00         | 19.98          | Horizontal |
| 2               | 9422.725           | 40.54             | -39.93         | 37.35    | -57.30         | -40.00         | 17.30          | Horizontal |
| 3               | 10259.925          | 36.98             | -39.09         | 38.53    | -58.85         | -40.00         | 18.85          | Horizontal |
| 4               | 12069.45           | 36.50             | -37.19         | 39.12    | -56.83         | -40.00         | 16.83          | Horizontal |
| 5               | 13179.775          | 34.85             | -36.58         | 39.65    | -57.34         | -40.00         | 17.34          | Horizontal |
| 6               | 14886.375          | 33.32             | -35.11         | 41.51    | -55.54         | -40.00         | 15.54          | Horizontal |

| Final Data List |                    |                   |                |          |                |                |                |          |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1               | 7515.45            | 41.67             | -43.10         | 36.42    | -60.27         | -40.00         | 20.27          | Vertical |
| 2               | 9261.725           | 39.02             | -40.02         | 37.02    | -59.24         | -40.00         | 19.24          | Vertical |
| 3               | 9989.675           | 37.71             | -39.36         | 38.48    | -58.43         | -40.00         | 18.43          | Vertical |
| 4               | 10949.925          | 35.72             | -37.70         | 38.59    | -58.65         | -40.00         | 18.65          | Vertical |
| 5               | 12626.05           | 35.55             | -37.10         | 39.29    | -57.53         | -40.00         | 17.53          | Vertical |
| 6               | 14318.85           | 34.15             | -35.71         | 41.06    | -55.77         | -40.00         | 15.77          | Vertical |

For Sample #2:

**Test Band = SA Band48\_ TM1**

**Test Channel = Low**

| Final Data List |                    |                   |                |          |                |                |                |            |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1               | 7373.425           | 42.52             | -42.93         | 36.05    | -59.63         | -40.00         | 19.63          | Horizontal |
| 2               | 9270.925           | 39.24             | -40.04         | 37.04    | -59.01         | -40.00         | 19.01          | Horizontal |
| 3               | 10127.675          | 37.44             | -38.86         | 38.51    | -58.17         | -40.00         | 18.17          | Horizontal |
| 4               | 11152.9            | 36.03             | -37.14         | 38.68    | -57.70         | -40.00         | 17.70          | Horizontal |
| 5               | 12076.925          | 35.98             | -37.19         | 39.12    | -57.34         | -40.00         | 17.34          | Horizontal |
| 6               | 14354.5            | 33.87             | -35.43         | 41.08    | -55.74         | -40.00         | 15.74          | Horizontal |

| Final Data List |                    |                   |                |          |                |                |                |          |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1               | 7532.7             | 41.58             | -43.03         | 36.45    | -60.26         | -40.00         | 20.26          | Vertical |
| 2               | 8698.225           | 41.14             | -41.33         | 36.68    | -58.77         | -40.00         | 18.77          | Vertical |
| 3               | 9888.475           | 37.93             | -39.18         | 38.28    | -58.24         | -40.00         | 18.24          | Vertical |
| 4               | 10654.375          | 36.61             | -37.73         | 38.57    | -57.81         | -40.00         | 17.81          | Vertical |
| 5               | 12344.3            | 35.36             | -36.80         | 39.20    | -57.49         | -40.00         | 17.49          | Vertical |
| 6               | 14157.85           | 32.52             | -35.62         | 40.93    | -57.44         | -40.00         | 17.44          | Vertical |

**Test Band = SA Band48\_ TM1**

**Test Channel = Mid**

| Final Data List |                    |                   |                |          |                |                |                |            |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1               | 7456.8             | 41.56             | -43.01         | 36.28    | -60.43         | -40.00         | 20.43          | Horizontal |
| 2               | 8906.95            | 40.15             | -40.91         | 36.56    | -59.46         | -40.00         | 19.46          | Horizontal |
| 3               | 10262.8            | 37.21             | -39.09         | 38.53    | -58.61         | -40.00         | 18.61          | Horizontal |
| 4               | 12055.075          | 35.83             | -37.19         | 39.12    | -57.50         | -40.00         | 17.50          | Horizontal |
| 5               | 13163.1            | 34.85             | -36.58         | 39.63    | -57.37         | -40.00         | 17.37          | Horizontal |
| 6               | 15136.5            | 31.80             | -34.22         | 41.31    | -56.36         | -40.00         | 16.36          | Horizontal |

| Final Data List |                    |                   |                |          |                |                |                |          |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1               | 7038.775           | 42.46             | -43.25         | 35.11    | -60.94         | -40.00         | 20.94          | Vertical |
| 2               | 8764.35            | 41.24             | -41.21         | 36.64    | -58.59         | -40.00         | 18.59          | Vertical |
| 3               | 9495.75            | 39.50             | -39.96         | 37.49    | -58.23         | -40.00         | 18.23          | Vertical |
| 4               | 11173.025          | 35.52             | -36.91         | 38.69    | -57.96         | -40.00         | 17.96          | Vertical |
| 5               | 12727.825          | 34.97             | -36.77         | 39.32    | -57.74         | -40.00         | 17.74          | Vertical |
| 6               | 15436.65           | 32.36             | -34.44         | 40.68    | -56.66         | -40.00         | 16.66          | Vertical |

**Test Band = SA Band48\_ TM1**  
**Test Channel = High**

| Final Data List |                    |                   |                |          |                |                |                |            |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1               | 7645.4             | 41.60             | -42.84         | 36.60    | -59.89         | -40.00         | 19.89          | Horizontal |
| 2               | 9044.375           | 38.83             | -40.67         | 36.59    | -60.51         | -40.00         | 20.51          | Horizontal |
| 3               | 10274.875          | 37.48             | -39.05         | 38.53    | -58.30         | -40.00         | 18.30          | Horizontal |
| 4               | 11400.15           | 36.32             | -37.51         | 38.80    | -57.65         | -40.00         | 17.65          | Horizontal |
| 5               | 13599.525          | 34.73             | -36.04         | 40.24    | -56.33         | -40.00         | 16.33          | Horizontal |
| 6               | 15498.175          | 31.95             | -35.09         | 40.55    | -57.85         | -40.00         | 17.85          | Horizontal |

| Final Data List |                    |                   |                |          |                |                |                |          |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1               | 7192.875           | 43.07             | -43.61         | 35.54    | -60.26         | -40.00         | 20.26          | Vertical |
| 2               | 8806.325           | 41.31             | -41.13         | 36.62    | -58.46         | -40.00         | 18.46          | Vertical |
| 3               | 9623.975           | 37.97             | -39.27         | 37.75    | -58.81         | -40.00         | 18.81          | Vertical |
| 4               | 11247.775          | 35.70             | -36.90         | 38.72    | -57.74         | -40.00         | 17.74          | Vertical |
| 5               | 13383.325          | 35.16             | -36.23         | 39.94    | -56.39         | -40.00         | 16.39          | Vertical |
| 6               | 15340.05           | 32.08             | -33.98         | 40.89    | -56.27         | -40.00         | 16.27          | Vertical |