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# Appendix B.21

## NR Band n70



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

### Test Result

| Band | SCS | Bandwidth | Modulation  | Channel | RB Config       | Power (dBm) | EIRP (dBm) | LIMIT | Verdict |
|------|-----|-----------|-------------|---------|-----------------|-------------|------------|-------|---------|
| N70  | 15  | 5         | DFT-PI2BPSK | L       | Inner_1RB_Left  | 23.63       | 26.49      | 30    | PASS    |
| N70  | 15  | 5         | DFT-PI2BPSK | L       | Inner_1RB_Right | 23.25       | 26.11      | 30    | PASS    |
| N70  | 15  | 5         | DFT-PI2BPSK | L       | Outer_Full      | 23.32       | 26.18      | 30    | PASS    |
| N70  | 15  | 5         | DFT-QPSK    | L       | Inner_1RB_Left  | 23.51       | 26.37      | 30    | PASS    |
| N70  | 15  | 5         | DFT-QPSK    | L       | Inner_1RB_Right | 23.49       | 26.35      | 30    | PASS    |
| N70  | 15  | 5         | DFT-QPSK    | L       | Outer_Full      | 22.41       | 25.27      | 30    | PASS    |
| N70  | 15  | 5         | DFT-16QAM   | L       | Inner_1RB_Left  | 22.52       | 25.38      | 30    | PASS    |
| N70  | 15  | 5         | DFT-16QAM   | L       | Inner_1RB_Right | 22.46       | 25.32      | 30    | PASS    |
| N70  | 15  | 5         | DFT-16QAM   | L       | Outer_Full      | 21.49       | 24.35      | 30    | PASS    |
| N70  | 15  | 5         | DFT-64QAM   | L       | Inner_1RB_Left  | 21.22       | 24.08      | 30    | PASS    |
| N70  | 15  | 5         | DFT-64QAM   | L       | Inner_1RB_Right | 21.14       | 24         | 30    | PASS    |
| N70  | 15  | 5         | DFT-64QAM   | L       | Outer_Full      | 20.94       | 23.8       | 30    | PASS    |
| N70  | 15  | 5         | DFT-256QAM  | L       | Inner_1RB_Left  | 18.44       | 21.3       | 30    | PASS    |
| N70  | 15  | 5         | DFT-256QAM  | L       | Inner_1RB_Right | 18.41       | 21.27      | 30    | PASS    |
| N70  | 15  | 5         | DFT-256QAM  | L       | Outer_Full      | 18.86       | 21.72      | 30    | PASS    |
| N70  | 15  | 5         | DFT-PI2BPSK | M       | Inner_1RB_Left  | 23.56       | 26.42      | 30    | PASS    |
| N70  | 15  | 5         | DFT-PI2BPSK | M       | Inner_1RB_Right | 23.52       | 26.38      | 30    | PASS    |
| N70  | 15  | 5         | DFT-PI2BPSK | M       | Outer_Full      | 22.93       | 25.79      | 30    | PASS    |
| N70  | 15  | 5         | DFT-QPSK    | M       | Inner_1RB_Left  | 23.44       | 26.3       | 30    | PASS    |
| N70  | 15  | 5         | DFT-QPSK    | M       | Inner_1RB_Right | 23.46       | 26.32      | 30    | PASS    |
| N70  | 15  | 5         | DFT-QPSK    | M       | Outer_Full      | 22.37       | 25.23      | 30    | PASS    |
| N70  | 15  | 5         | DFT-16QAM   | M       | Inner_1RB_Left  | 22.49       | 25.35      | 30    | PASS    |
| N70  | 15  | 5         | DFT-16QAM   | M       | Inner_1RB_Right | 22.46       | 25.32      | 30    | PASS    |
| N70  | 15  | 5         | DFT-16QAM   | M       | Outer_Full      | 21.48       | 24.34      | 30    | PASS    |
| N70  | 15  | 5         | DFT-64QAM   | M       | Inner_1RB_Left  | 21.18       | 24.04      | 30    | PASS    |
| N70  | 15  | 5         | DFT-64QAM   | M       | Inner_1RB_Right | 21.19       | 24.05      | 30    | PASS    |
| N70  | 15  | 5         | DFT-64QAM   | M       | Outer_Full      | 20.93       | 23.79      | 30    | PASS    |
| N70  | 15  | 5         | DFT-256QAM  | M       | Inner_1RB_Left  | 18.38       | 21.24      | 30    | PASS    |
| N70  | 15  | 5         | DFT-256QAM  | M       | Inner_1RB_Right | 18.4        | 21.26      | 30    | PASS    |
| N70  | 15  | 5         | DFT-256QAM  | M       | Outer_Full      | 18.86       | 21.72      | 30    | PASS    |
| N70  | 15  | 5         | DFT-PI2BPSK | H       | Inner_1RB_Left  | 23.5        | 26.36      | 30    | PASS    |
| N70  | 15  | 5         | DFT-PI2BPSK | H       | Inner_1RB_Right | 23.56       | 26.42      | 30    | PASS    |



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|     |    |    |             |   |                 |       |       |    |      |
|-----|----|----|-------------|---|-----------------|-------|-------|----|------|
| N70 | 15 | 5  | DFT-PI2BPSK | H | Outer_Full      | 22.97 | 25.83 | 30 | PASS |
| N70 | 15 | 5  | DFT-QPSK    | H | Inner_1RB_Left  | 23.42 | 26.28 | 30 | PASS |
| N70 | 15 | 5  | DFT-QPSK    | H | Inner_1RB_Right | 23.47 | 26.33 | 30 | PASS |
| N70 | 15 | 5  | DFT-QPSK    | H | Outer_Full      | 22.5  | 25.36 | 30 | PASS |
| N70 | 15 | 5  | DFT-16QAM   | H | Inner_1RB_Left  | 22.57 | 25.43 | 30 | PASS |
| N70 | 15 | 5  | DFT-16QAM   | H | Inner_1RB_Right | 22.59 | 25.45 | 30 | PASS |
| N70 | 15 | 5  | DFT-16QAM   | H | Outer_Full      | 21.53 | 24.39 | 30 | PASS |
| N70 | 15 | 5  | DFT-64QAM   | H | Inner_1RB_Left  | 21.15 | 24.01 | 30 | PASS |
| N70 | 15 | 5  | DFT-64QAM   | H | Inner_1RB_Right | 21.24 | 24.1  | 30 | PASS |
| N70 | 15 | 5  | DFT-64QAM   | H | Outer_Full      | 20.95 | 23.81 | 30 | PASS |
| N70 | 15 | 5  | DFT-256QAM  | H | Inner_1RB_Left  | 18.39 | 21.25 | 30 | PASS |
| N70 | 15 | 5  | DFT-256QAM  | H | Inner_1RB_Right | 18.49 | 21.35 | 30 | PASS |
| N70 | 15 | 5  | DFT-256QAM  | H | Outer_Full      | 18.87 | 21.73 | 30 | PASS |
| N70 | 15 | 10 | DFT-PI2BPSK | L | Inner_1RB_Left  | 23.6  | 26.46 | 30 | PASS |
| N70 | 15 | 10 | DFT-PI2BPSK | L | Inner_1RB_Right | 23.44 | 26.3  | 30 | PASS |
| N70 | 15 | 10 | DFT-PI2BPSK | L | Outer_Full      | 23    | 25.86 | 30 | PASS |
| N70 | 15 | 10 | DFT-QPSK    | L | Inner_1RB_Left  | 23.36 | 26.22 | 30 | PASS |
| N70 | 15 | 10 | DFT-QPSK    | L | Inner_1RB_Right | 23.36 | 26.22 | 30 | PASS |
| N70 | 15 | 10 | DFT-QPSK    | L | Outer_Full      | 22.43 | 25.29 | 30 | PASS |
| N70 | 15 | 10 | DFT-16QAM   | L | Inner_1RB_Left  | 22.52 | 25.38 | 30 | PASS |
| N70 | 15 | 10 | DFT-16QAM   | L | Inner_1RB_Right | 22.46 | 25.32 | 30 | PASS |
| N70 | 15 | 10 | DFT-16QAM   | L | Outer_Full      | 21.38 | 24.24 | 30 | PASS |
| N70 | 15 | 10 | DFT-64QAM   | L | Inner_1RB_Left  | 21.13 | 23.99 | 30 | PASS |
| N70 | 15 | 10 | DFT-64QAM   | L | Inner_1RB_Right | 21.12 | 23.98 | 30 | PASS |
| N70 | 15 | 10 | DFT-64QAM   | L | Outer_Full      | 21.01 | 23.87 | 30 | PASS |
| N70 | 15 | 10 | DFT-256QAM  | L | Inner_1RB_Left  | 18.43 | 21.29 | 30 | PASS |
| N70 | 15 | 10 | DFT-256QAM  | L | Inner_1RB_Right | 18.37 | 21.23 | 30 | PASS |
| N70 | 15 | 10 | DFT-256QAM  | L | Outer_Full      | 18.91 | 21.77 | 30 | PASS |
| N70 | 15 | 10 | DFT-PI2BPSK | M | Inner_1RB_Left  | 23.52 | 26.38 | 30 | PASS |
| N70 | 15 | 10 | DFT-PI2BPSK | M | Inner_1RB_Right | 23.5  | 26.36 | 30 | PASS |
| N70 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full      | 22.98 | 25.84 | 30 | PASS |
| N70 | 15 | 10 | DFT-QPSK    | M | Inner_1RB_Left  | 23.36 | 26.22 | 30 | PASS |
| N70 | 15 | 10 | DFT-QPSK    | M | Inner_1RB_Right | 23.46 | 26.32 | 30 | PASS |
| N70 | 15 | 10 | DFT-QPSK    | M | Outer_Full      | 22.41 | 25.27 | 30 | PASS |
| N70 | 15 | 10 | DFT-16QAM   | M | Inner_1RB_Left  | 22.48 | 25.34 | 30 | PASS |
| N70 | 15 | 10 | DFT-16QAM   | M | Inner_1RB_Right | 22.56 | 25.42 | 30 | PASS |
| N70 | 15 | 10 | DFT-16QAM   | M | Outer_Full      | 21.38 | 24.24 | 30 | PASS |



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|-----|----|----|-------------|---|-----------------|-------|-------|----|------|
| N70 | 15 | 10 | DFT-64QAM   | M | Inner_1RB_Left  | 21.08 | 23.94 | 30 | PASS |
| N70 | 15 | 10 | DFT-64QAM   | M | Inner_1RB_Right | 21.18 | 24.04 | 30 | PASS |
| N70 | 15 | 10 | DFT-64QAM   | M | Outer_Full      | 21    | 23.86 | 30 | PASS |
| N70 | 15 | 10 | DFT-256QAM  | M | Inner_1RB_Left  | 18.4  | 21.26 | 30 | PASS |
| N70 | 15 | 10 | DFT-256QAM  | M | Inner_1RB_Right | 18.44 | 21.3  | 30 | PASS |
| N70 | 15 | 10 | DFT-256QAM  | M | Outer_Full      | 18.95 | 21.81 | 30 | PASS |
| N70 | 15 | 10 | DFT-PI2BPSK | H | Inner_1RB_Left  | 23.57 | 26.43 | 30 | PASS |
| N70 | 15 | 10 | DFT-PI2BPSK | H | Inner_1RB_Right | 23.55 | 26.41 | 30 | PASS |
| N70 | 15 | 10 | DFT-PI2BPSK | H | Outer_Full      | 23.02 | 25.88 | 30 | PASS |
| N70 | 15 | 10 | DFT-QPSK    | H | Inner_1RB_Left  | 23.48 | 26.34 | 30 | PASS |
| N70 | 15 | 10 | DFT-QPSK    | H | Inner_1RB_Right | 23.46 | 26.32 | 30 | PASS |
| N70 | 15 | 10 | DFT-QPSK    | H | Outer_Full      | 22.42 | 25.28 | 30 | PASS |
| N70 | 15 | 10 | DFT-16QAM   | H | Inner_1RB_Left  | 22.5  | 25.36 | 30 | PASS |
| N70 | 15 | 10 | DFT-16QAM   | H | Inner_1RB_Right | 22.57 | 25.43 | 30 | PASS |
| N70 | 15 | 10 | DFT-16QAM   | H | Outer_Full      | 21.39 | 24.25 | 30 | PASS |
| N70 | 15 | 10 | DFT-64QAM   | H | Inner_1RB_Left  | 21.14 | 24    | 30 | PASS |
| N70 | 15 | 10 | DFT-64QAM   | H | Inner_1RB_Right | 21.16 | 24.02 | 30 | PASS |
| N70 | 15 | 10 | DFT-64QAM   | H | Outer_Full      | 20.99 | 23.85 | 30 | PASS |
| N70 | 15 | 10 | DFT-256QAM  | H | Inner_1RB_Left  | 18.35 | 21.21 | 30 | PASS |
| N70 | 15 | 10 | DFT-256QAM  | H | Inner_1RB_Right | 18.44 | 21.3  | 30 | PASS |
| N70 | 15 | 10 | DFT-256QAM  | H | Outer_Full      | 18.92 | 21.78 | 30 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | L | Inner_1RB_Left  | 23.64 | 26.5  | 30 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | L | Inner_1RB_Right | 23.74 | 26.6  | 30 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | L | Outer_Full      | 23.14 | 26    | 30 | PASS |
| N70 | 15 | 15 | DFT-QPSK    | L | Inner_1RB_Left  | 22.42 | 25.28 | 30 | PASS |
| N70 | 15 | 15 | DFT-QPSK    | L | Inner_1RB_Right | 23.69 | 26.55 | 30 | PASS |
| N70 | 15 | 15 | DFT-QPSK    | L | Outer_Full      | 22.6  | 25.46 | 30 | PASS |
| N70 | 15 | 15 | DFT-16QAM   | L | Inner_1RB_Left  | 22.65 | 25.51 | 30 | PASS |
| N70 | 15 | 15 | DFT-16QAM   | L | Inner_1RB_Right | 22.76 | 25.62 | 30 | PASS |
| N70 | 15 | 15 | DFT-16QAM   | L | Outer_Full      | 21.67 | 24.53 | 30 | PASS |
| N70 | 15 | 15 | DFT-64QAM   | L | Inner_1RB_Left  | 21.43 | 24.29 | 30 | PASS |
| N70 | 15 | 15 | DFT-64QAM   | L | Inner_1RB_Right | 21.46 | 24.32 | 30 | PASS |
| N70 | 15 | 15 | DFT-64QAM   | L | Outer_Full      | 21.18 | 24.04 | 30 | PASS |
| N70 | 15 | 15 | DFT-256QAM  | L | Inner_1RB_Left  | 18.55 | 21.41 | 30 | PASS |
| N70 | 15 | 15 | DFT-256QAM  | L | Inner_1RB_Right | 18.66 | 21.52 | 30 | PASS |
| N70 | 15 | 15 | DFT-256QAM  | L | Outer_Full      | 19.08 | 21.94 | 30 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | M | Inner_1RB_Left  | 23.61 | 26.47 | 30 | PASS |



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|-----|----|----|-------------|---|-----------------|-------|-------|----|------|
| N70 | 15 | 15 | DFT-PI2BPSK | M | Inner_1RB_Right | 23.69 | 26.55 | 30 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full      | 23.17 | 26.03 | 30 | PASS |
| N70 | 15 | 15 | DFT-QPSK    | M | Inner_1RB_Left  | 23.54 | 26.4  | 30 | PASS |
| N70 | 15 | 15 | DFT-QPSK    | M | Inner_1RB_Right | 23.62 | 26.48 | 30 | PASS |
| N70 | 15 | 15 | DFT-QPSK    | M | Outer_Full      | 22.66 | 25.52 | 30 | PASS |
| N70 | 15 | 15 | DFT-16QAM   | M | Inner_1RB_Left  | 22.65 | 25.51 | 30 | PASS |
| N70 | 15 | 15 | DFT-16QAM   | M | Inner_1RB_Right | 22.62 | 25.48 | 30 | PASS |
| N70 | 15 | 15 | DFT-16QAM   | M | Outer_Full      | 21.66 | 24.52 | 30 | PASS |
| N70 | 15 | 15 | DFT-64QAM   | M | Inner_1RB_Left  | 21.32 | 24.18 | 30 | PASS |
| N70 | 15 | 15 | DFT-64QAM   | M | Inner_1RB_Right | 21.39 | 24.25 | 30 | PASS |
| N70 | 15 | 15 | DFT-64QAM   | M | Outer_Full      | 21.14 | 24    | 30 | PASS |
| N70 | 15 | 15 | DFT-256QAM  | M | Inner_1RB_Left  | 18.6  | 21.46 | 30 | PASS |
| N70 | 15 | 15 | DFT-256QAM  | M | Inner_1RB_Right | 18.62 | 21.48 | 30 | PASS |
| N70 | 15 | 15 | DFT-256QAM  | M | Outer_Full      | 19.06 | 21.92 | 30 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | H | Inner_1RB_Left  | 23.59 | 26.45 | 30 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | H | Inner_1RB_Right | 23.7  | 26.56 | 30 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | H | Outer_Full      | 23.16 | 26.02 | 30 | PASS |
| N70 | 15 | 15 | DFT-QPSK    | H | Inner_1RB_Left  | 23.6  | 26.46 | 30 | PASS |
| N70 | 15 | 15 | DFT-QPSK    | H | Inner_1RB_Right | 23.6  | 26.46 | 30 | PASS |
| N70 | 15 | 15 | DFT-QPSK    | H | Outer_Full      | 22.61 | 25.47 | 30 | PASS |
| N70 | 15 | 15 | DFT-16QAM   | H | Inner_1RB_Left  | 22.63 | 25.49 | 30 | PASS |
| N70 | 15 | 15 | DFT-16QAM   | H | Inner_1RB_Right | 22.75 | 25.61 | 30 | PASS |
| N70 | 15 | 15 | DFT-16QAM   | H | Outer_Full      | 21.64 | 24.5  | 30 | PASS |
| N70 | 15 | 15 | DFT-64QAM   | H | Inner_1RB_Left  | 21.29 | 24.15 | 30 | PASS |
| N70 | 15 | 15 | DFT-64QAM   | H | Inner_1RB_Right | 21.29 | 24.15 | 30 | PASS |
| N70 | 15 | 15 | DFT-64QAM   | H | Outer_Full      | 21.18 | 24.04 | 30 | PASS |
| N70 | 15 | 15 | DFT-256QAM  | H | Inner_1RB_Left  | 18.54 | 21.4  | 30 | PASS |
| N70 | 15 | 15 | DFT-256QAM  | H | Inner_1RB_Right | 18.51 | 21.37 | 30 | PASS |
| N70 | 15 | 15 | DFT-256QAM  | H | Outer_Full      | 19.11 | 21.97 | 30 | PASS |



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## Peak-to-Average Ratio for SA

## Peak-to-Average Ratio(PAPR)

### Test Result

| Band | SCS | Bandwidth | Modulation | Channel | RB Config  | DutyCycle | Factor | Result | Limit | Verdict |
|------|-----|-----------|------------|---------|------------|-----------|--------|--------|-------|---------|
| N70  | 15  | 15        | DFT-256QAM | L       | Outer_Full | 100%      | 0.00   | 8.98   | ≤13   | PASS    |
| N70  | 15  | 15        | CP-256QAM  | L       | Outer_Full | 100%      | 0.00   | 9.52   | ≤13   | PASS    |
| N70  | 15  | 15        | DFT-256QAM | M       | Outer_Full | 100%      | 0.00   | 9.00   | ≤13   | PASS    |
| N70  | 15  | 15        | CP-256QAM  | M       | Outer_Full | 100%      | 0.00   | 9.61   | ≤13   | PASS    |
| N70  | 15  | 15        | DFT-256QAM | H       | Outer_Full | 100%      | 0.00   | 8.91   | ≤13   | PASS    |
| N70  | 15  | 15        | CP-256QAM  | H       | Outer_Full | 100%      | 0.00   | 9.47   | ≤13   | PASS    |



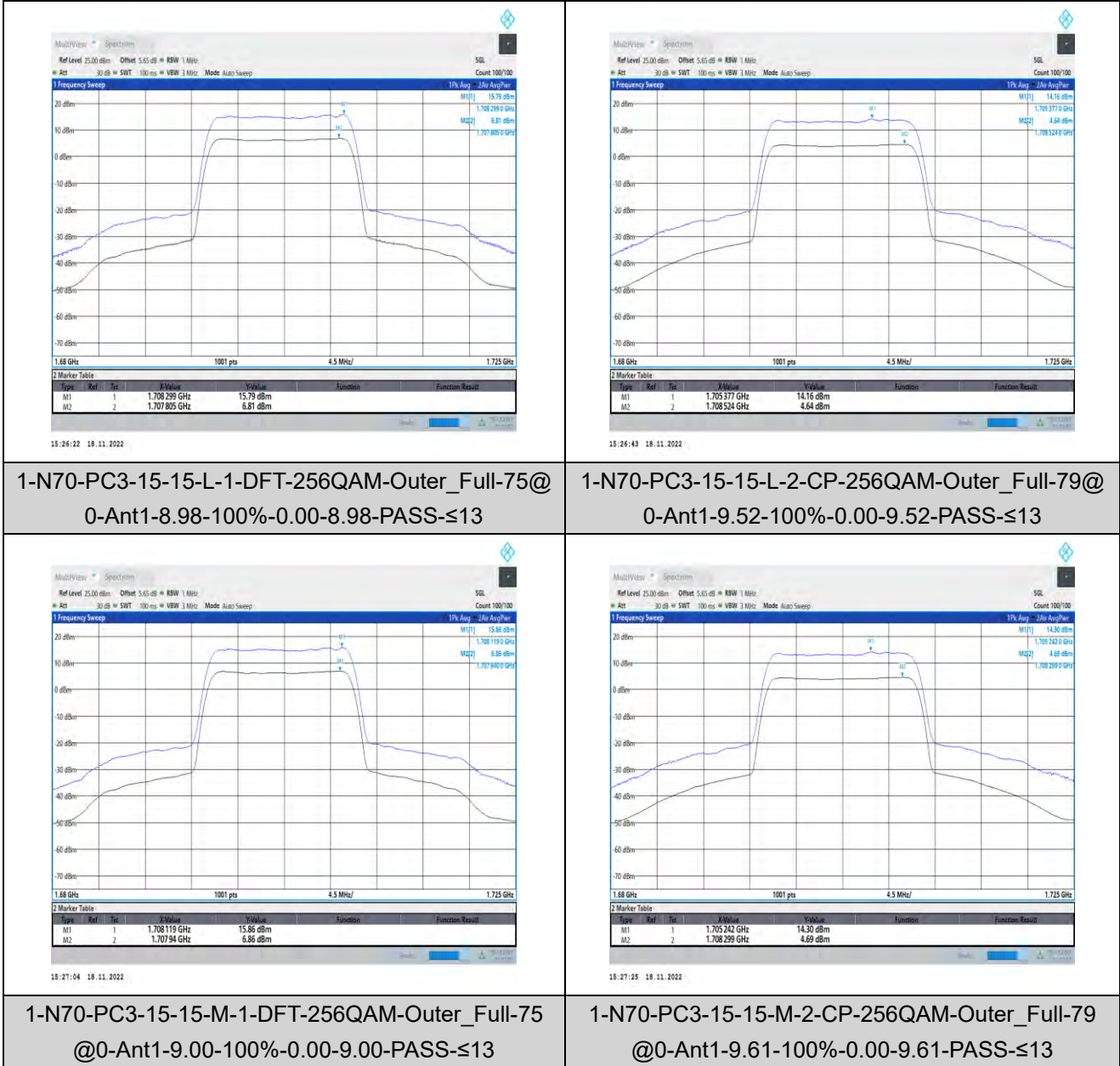
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Test Graphs



1-N70-PC3-15-15-L-1-DFT-256QAM-Outer\_Full-75@  
 0-Ant1-8.98-100%-0.00-8.98-PASS-≤13

1-N70-PC3-15-15-L-2-CP-256QAM-Outer\_Full-79@  
 0-Ant1-9.52-100%-0.00-9.52-PASS-≤13

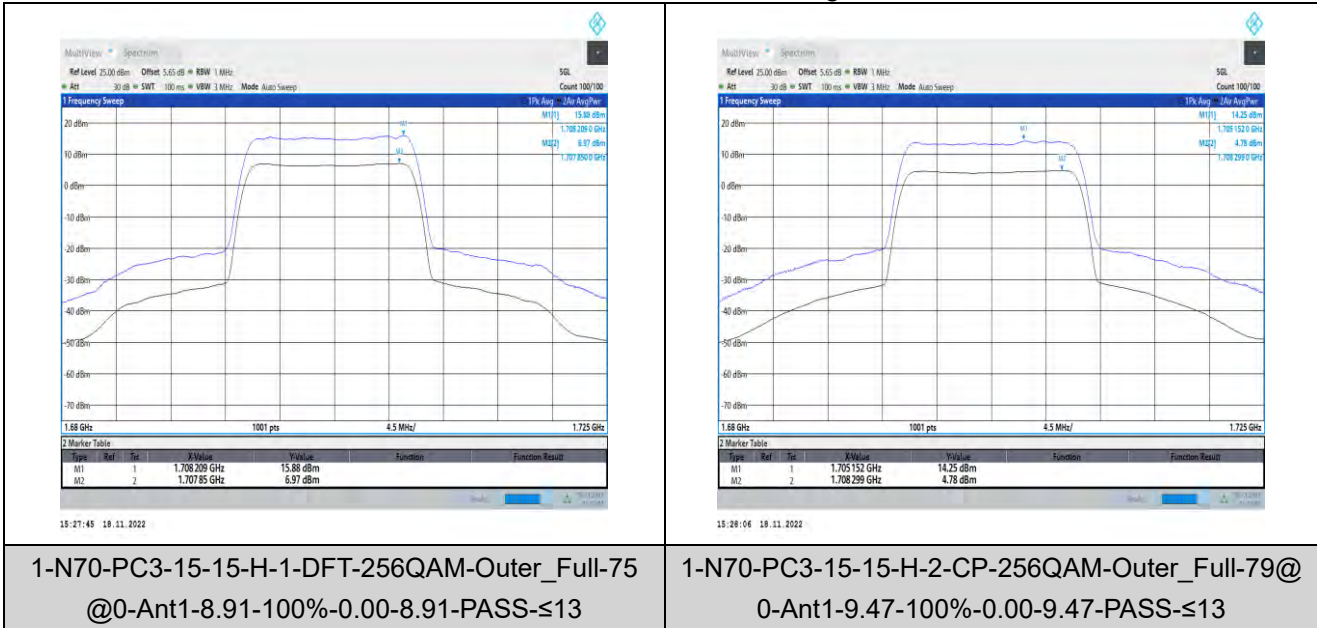
1-N70-PC3-15-15-M-1-DFT-256QAM-Outer\_Full-75  
 @0-Ant1-9.00-100%-0.00-9.00-PASS-≤13

1-N70-PC3-15-15-M-2-CP-256QAM-Outer\_Full-79  
 @0-Ant1-9.61-100%-0.00-9.61-PASS-≤13



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1-N70-PC3-15-15-H-1-DFT-256QAM-Outer\_Full-75  
@0-Ant1-8.91-100%-0.00-8.91-PASS-≤13

1-N70-PC3-15-15-H-2-CP-256QAM-Outer\_Full-79@  
0-Ant1-9.47-100%-0.00-9.47-PASS-≤13



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## Modulation characteristics for SA

### Test Result

| Band | SCS | Bandwidth | Modulation  | Channel | RB Config  | Result    | Verdict |
|------|-----|-----------|-------------|---------|------------|-----------|---------|
| N70  | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | see graph | PASS    |
| N70  | 15  | 15        | DFT-QPSK    | M       | Outer_Full | see graph | PASS    |
| N70  | 15  | 15        | DFT-16QAM   | M       | Outer_Full | see graph | PASS    |
| N70  | 15  | 15        | DFT-64QAM   | M       | Outer_Full | see graph | PASS    |
| N70  | 15  | 15        | DFT-256QAM  | M       | Outer_Full | see graph | PASS    |
| N70  | 15  | 15        | CP-QPSK     | M       | Outer_Full | see graph | PASS    |
| N70  | 15  | 15        | CP-16QAM    | M       | Outer_Full | see graph | PASS    |
| N70  | 15  | 15        | CP-64QAM    | M       | Outer_Full | see graph | PASS    |
| N70  | 15  | 15        | CP-256QAM   | M       | Outer_Full | see graph | PASS    |



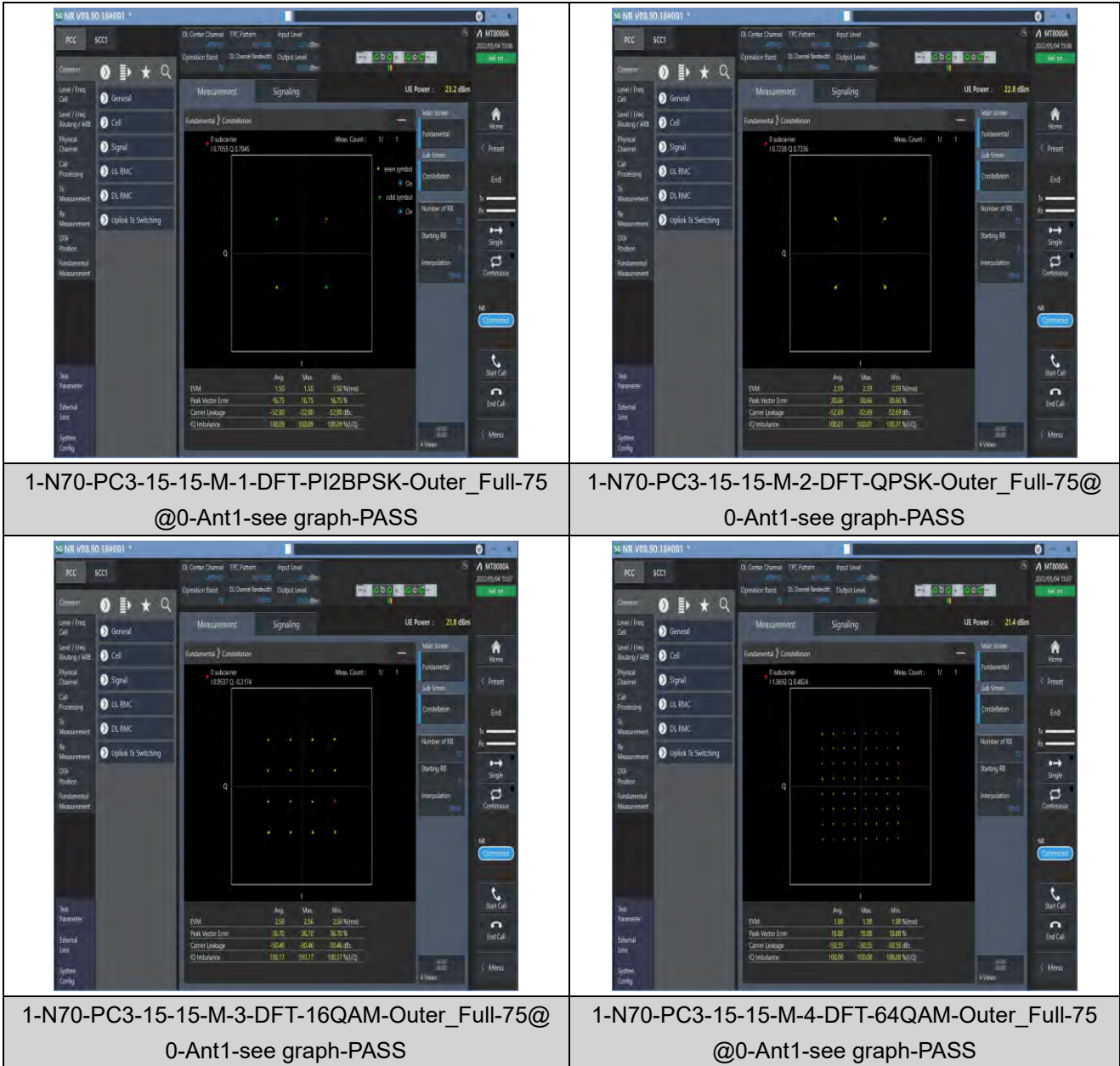
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Test Graphs



1-N70-PC3-15-15-M-1-DFT-PI2BPSK-Outer\_Full-75 @0-Ant1-see graph-PASS

1-N70-PC3-15-15-M-2-DFT-QPSK-Outer\_Full-75@ 0-Ant1-see graph-PASS

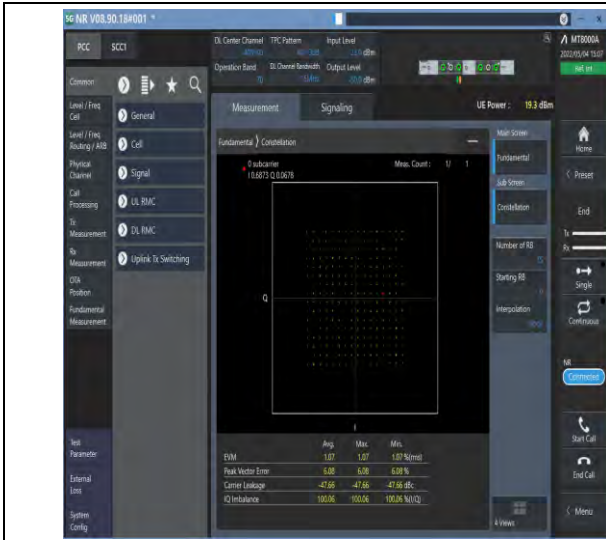
1-N70-PC3-15-15-M-3-DFT-16QAM-Outer\_Full-75@ 0-Ant1-see graph-PASS

1-N70-PC3-15-15-M-4-DFT-64QAM-Outer\_Full-75 @0-Ant1-see graph-PASS

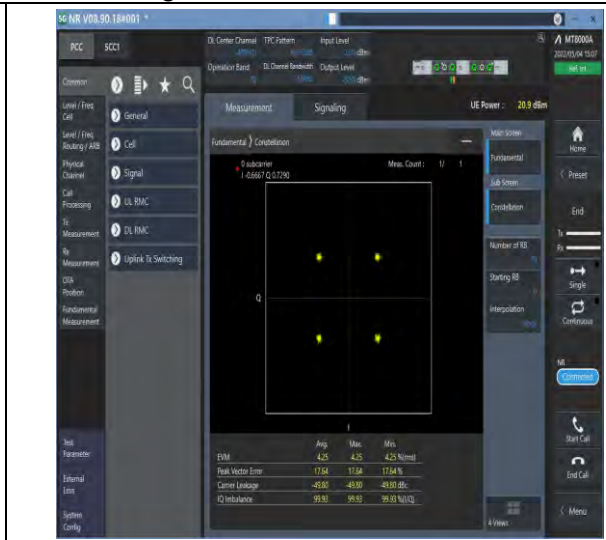


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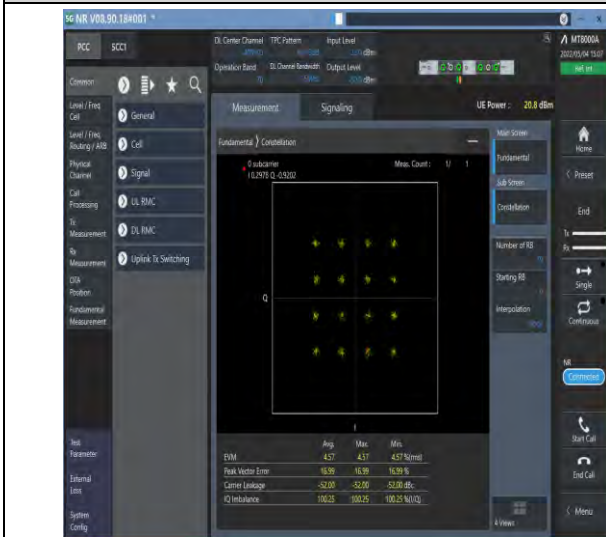
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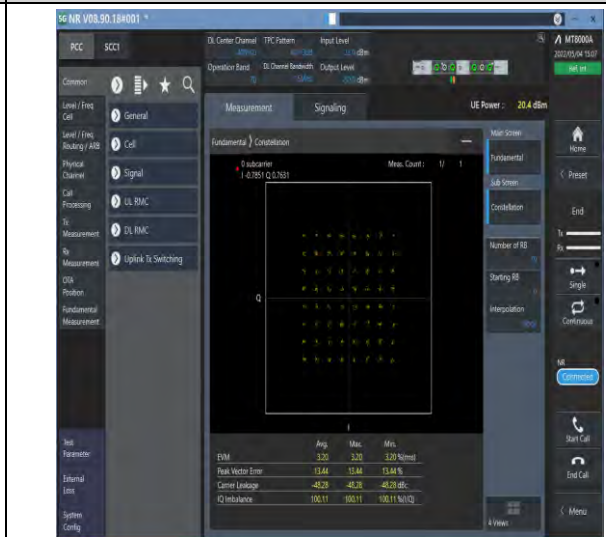
1-N70-PC3-15-15-M-5-DFT-256QAM-Outer\_Full-75 @0-Ant1-see graph-PASS



1-N70-PC3-15-15-M-6-CP-QPSK-Outer\_Full-79@0-Ant1-see graph-PASS



1-N70-PC3-15-15-M-7-CP-16QAM-Outer\_Full-79@0-Ant1-see graph-PASS



1-N70-PC3-15-15-M-8-CP-64QAM-Outer\_Full-79@0-Ant1-see graph-PASS



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|   |  |
|---|--|
|   |  |
| <p>1-N70-PC3-15-15-M-9-CP-256QAM-Outer_Full-79@<br/>0-Ant1-see graph-PASS</p> |  |



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## 26dB Bandwidth and Occupied Bandwidth for SA

### Test Result

| Band | SCS | Bandwidth | Modulation  | Channel | RB Config  | Result (99%) | Result (26dB) | Verdict |
|------|-----|-----------|-------------|---------|------------|--------------|---------------|---------|
| N70  | 15  | 5         | DFT-QPSK    | L       | Outer_Full | 4.473        | 4.960         | PASS    |
| N70  | 15  | 5         | DFT-PI2BPSK | L       | Outer_Full | 4.473        | 4.900         | PASS    |
| N70  | 15  | 5         | DFT-16QAM   | L       | Outer_Full | 4.479        | 5.100         | PASS    |
| N70  | 15  | 5         | DFT-64QAM   | L       | Outer_Full | 4.487        | 5.050         | PASS    |
| N70  | 15  | 5         | DFT-256QAM  | L       | Outer_Full | 4.492        | 5.020         | PASS    |
| N70  | 15  | 5         | CP-QPSK     | L       | Outer_Full | 4.48         | 5.280         | PASS    |
| N70  | 15  | 5         | CP-16QAM    | L       | Outer_Full | 4.51         | 5.110         | PASS    |
| N70  | 15  | 5         | CP-64QAM    | L       | Outer_Full | 4.488        | 5.070         | PASS    |
| N70  | 15  | 5         | CP-256QAM   | L       | Outer_Full | 4.491        | 5.090         | PASS    |
| N70  | 15  | 5         | DFT-QPSK    | M       | Outer_Full | 4.482        | 5.060         | PASS    |
| N70  | 15  | 5         | DFT-PI2BPSK | M       | Outer_Full | 4.478        | 5.040         | PASS    |
| N70  | 15  | 5         | DFT-16QAM   | M       | Outer_Full | 4.493        | 5.080         | PASS    |
| N70  | 15  | 5         | DFT-64QAM   | M       | Outer_Full | 4.481        | 5.030         | PASS    |
| N70  | 15  | 5         | DFT-256QAM  | M       | Outer_Full | 4.485        | 5.060         | PASS    |
| N70  | 15  | 5         | CP-QPSK     | M       | Outer_Full | 4.467        | 5.110         | PASS    |
| N70  | 15  | 5         | CP-16QAM    | M       | Outer_Full | 4.511        | 5.290         | PASS    |
| N70  | 15  | 5         | CP-64QAM    | M       | Outer_Full | 4.487        | 5.180         | PASS    |
| N70  | 15  | 5         | CP-256QAM   | M       | Outer_Full | 4.471        | 5.120         | PASS    |
| N70  | 15  | 5         | DFT-QPSK    | H       | Outer_Full | 4.475        | 4.940         | PASS    |
| N70  | 15  | 5         | DFT-PI2BPSK | H       | Outer_Full | 4.474        | 5.060         | PASS    |
| N70  | 15  | 5         | DFT-16QAM   | H       | Outer_Full | 4.483        | 5.050         | PASS    |
| N70  | 15  | 5         | DFT-64QAM   | H       | Outer_Full | 4.472        | 5.050         | PASS    |
| N70  | 15  | 5         | DFT-256QAM  | H       | Outer_Full | 4.479        | 5.020         | PASS    |
| N70  | 15  | 5         | CP-QPSK     | H       | Outer_Full | 4.473        | 4.960         | PASS    |
| N70  | 15  | 5         | CP-16QAM    | H       | Outer_Full | 4.49         | 5.050         | PASS    |
| N70  | 15  | 5         | CP-64QAM    | H       | Outer_Full | 4.477        | 5.060         | PASS    |
| N70  | 15  | 5         | CP-256QAM   | H       | Outer_Full | 4.492        | 5.130         | PASS    |
| N70  | 15  | 10        | DFT-QPSK    | L       | Outer_Full | 8.937        | 9.540         | PASS    |
| N70  | 15  | 10        | DFT-PI2BPSK | L       | Outer_Full | 8.928        | 9.720         | PASS    |
| N70  | 15  | 10        | DFT-16QAM   | L       | Outer_Full | 8.957        | 9.640         | PASS    |
| N70  | 15  | 10        | DFT-64QAM   | L       | Outer_Full | 8.92         | 9.560         | PASS    |
| N70  | 15  | 10        | DFT-256QAM  | L       | Outer_Full | 8.953        | 9.600         | PASS    |



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|     |    |    |             |   |            |        |        |      |
|-----|----|----|-------------|---|------------|--------|--------|------|
| N70 | 15 | 10 | CP-QPSK     | L | Outer_Full | 9.295  | 10.080 | PASS |
| N70 | 15 | 10 | CP-16QAM    | L | Outer_Full | 9.287  | 10.120 | PASS |
| N70 | 15 | 10 | CP-64QAM    | L | Outer_Full | 9.294  | 10.040 | PASS |
| N70 | 15 | 10 | CP-256QAM   | L | Outer_Full | 9.296  | 10.140 | PASS |
| N70 | 15 | 10 | DFT-QPSK    | M | Outer_Full | 8.938  | 9.600  | PASS |
| N70 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | 8.912  | 9.700  | PASS |
| N70 | 15 | 10 | DFT-16QAM   | M | Outer_Full | 8.956  | 9.600  | PASS |
| N70 | 15 | 10 | DFT-64QAM   | M | Outer_Full | 8.957  | 9.840  | PASS |
| N70 | 15 | 10 | DFT-256QAM  | M | Outer_Full | 8.957  | 9.720  | PASS |
| N70 | 15 | 10 | CP-QPSK     | M | Outer_Full | 9.287  | 10.080 | PASS |
| N70 | 15 | 10 | CP-16QAM    | M | Outer_Full | 9.29   | 10.000 | PASS |
| N70 | 15 | 10 | CP-64QAM    | M | Outer_Full | 9.283  | 9.820  | PASS |
| N70 | 15 | 10 | CP-256QAM   | M | Outer_Full | 9.312  | 9.980  | PASS |
| N70 | 15 | 10 | DFT-QPSK    | H | Outer_Full | 8.944  | 9.660  | PASS |
| N70 | 15 | 10 | DFT-PI2BPSK | H | Outer_Full | 8.924  | 9.680  | PASS |
| N70 | 15 | 10 | DFT-16QAM   | H | Outer_Full | 8.94   | 9.640  | PASS |
| N70 | 15 | 10 | DFT-64QAM   | H | Outer_Full | 8.956  | 9.680  | PASS |
| N70 | 15 | 10 | DFT-256QAM  | H | Outer_Full | 8.941  | 9.540  | PASS |
| N70 | 15 | 10 | CP-QPSK     | H | Outer_Full | 9.292  | 10.080 | PASS |
| N70 | 15 | 10 | CP-16QAM    | H | Outer_Full | 9.277  | 10.120 | PASS |
| N70 | 15 | 10 | CP-64QAM    | H | Outer_Full | 9.289  | 9.940  | PASS |
| N70 | 15 | 10 | CP-256QAM   | H | Outer_Full | 9.291  | 10.200 | PASS |
| N70 | 15 | 15 | DFT-QPSK    | L | Outer_Full | 13.452 | 14.490 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | L | Outer_Full | 13.48  | 14.460 | PASS |
| N70 | 15 | 15 | DFT-16QAM   | L | Outer_Full | 13.466 | 14.310 | PASS |
| N70 | 15 | 15 | DFT-64QAM   | L | Outer_Full | 13.438 | 14.340 | PASS |
| N70 | 15 | 15 | DFT-256QAM  | L | Outer_Full | 13.483 | 14.340 | PASS |
| N70 | 15 | 15 | CP-QPSK     | L | Outer_Full | 14.122 | 15.000 | PASS |
| N70 | 15 | 15 | CP-16QAM    | L | Outer_Full | 14.193 | 15.060 | PASS |
| N70 | 15 | 15 | CP-64QAM    | L | Outer_Full | 14.189 | 15.120 | PASS |
| N70 | 15 | 15 | CP-256QAM   | L | Outer_Full | 14.156 | 15.060 | PASS |
| N70 | 15 | 15 | DFT-QPSK    | M | Outer_Full | 13.452 | 14.430 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | 13.446 | 14.190 | PASS |
| N70 | 15 | 15 | DFT-16QAM   | M | Outer_Full | 13.453 | 14.220 | PASS |
| N70 | 15 | 15 | DFT-64QAM   | M | Outer_Full | 13.438 | 14.310 | PASS |
| N70 | 15 | 15 | DFT-256QAM  | M | Outer_Full | 13.495 | 14.460 | PASS |
| N70 | 15 | 15 | CP-QPSK     | M | Outer_Full | 14.139 | 14.940 | PASS |



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|     |    |    |             |   |            |        |        |      |
|-----|----|----|-------------|---|------------|--------|--------|------|
| N70 | 15 | 15 | CP-16QAM    | M | Outer_Full | 14.15  | 15.060 | PASS |
| N70 | 15 | 15 | CP-64QAM    | M | Outer_Full | 14.182 | 15.120 | PASS |
| N70 | 15 | 15 | CP-256QAM   | M | Outer_Full | 14.141 | 15.030 | PASS |
| N70 | 15 | 15 | DFT-QPSK    | H | Outer_Full | 13.45  | 14.460 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | H | Outer_Full | 13.47  | 14.430 | PASS |
| N70 | 15 | 15 | DFT-16QAM   | H | Outer_Full | 13.47  | 14.280 | PASS |
| N70 | 15 | 15 | DFT-64QAM   | H | Outer_Full | 13.443 | 14.340 | PASS |
| N70 | 15 | 15 | DFT-256QAM  | H | Outer_Full | 13.502 | 14.550 | PASS |
| N70 | 15 | 15 | CP-QPSK     | H | Outer_Full | 14.141 | 15.060 | PASS |
| N70 | 15 | 15 | CP-16QAM    | H | Outer_Full | 14.092 | 15.090 | PASS |
| N70 | 15 | 15 | CP-64QAM    | H | Outer_Full | 14.162 | 15.000 | PASS |
| N70 | 15 | 15 | CP-256QAM   | H | Outer_Full | 14.148 | 15.120 | PASS |



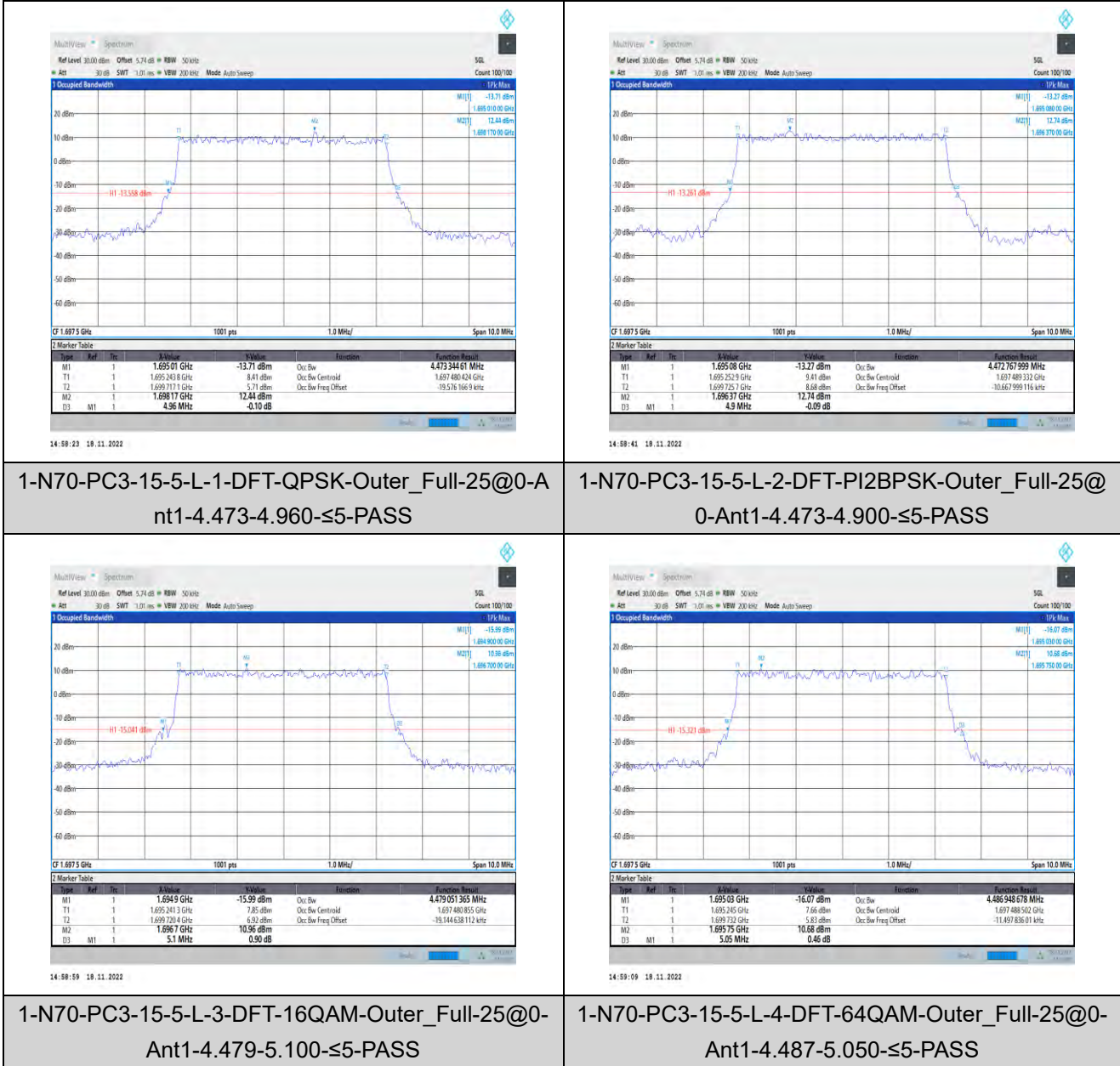
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Test Graphs



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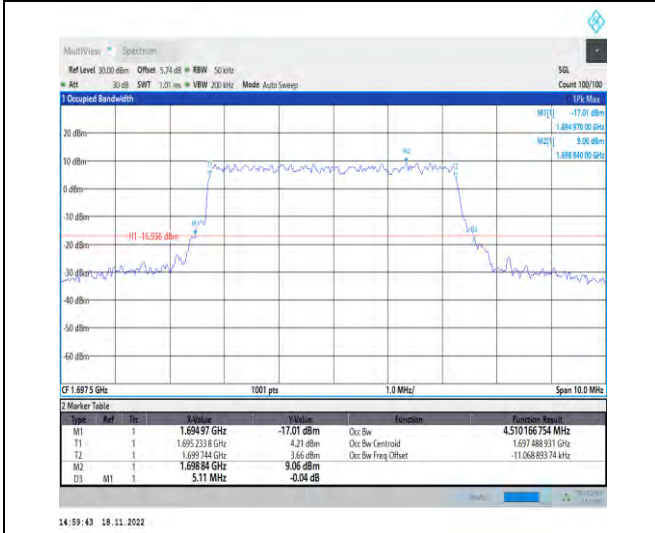




1-N70-PC3-15-5-L-5-DFT-256QAM-Outer\_Full-25@0-Ant1-4.492-5.020-≤5-PASS



1-N70-PC3-15-5-L-6-CP-QPSK-Outer\_Full-25@0-Ant1-4.48-5.280-≤5-PASS



1-N70-PC3-15-5-L-7-CP-16QAM-Outer\_Full-25@0-Ant1-4.51-5.110-≤5-PASS



1-N70-PC3-15-5-L-8-CP-64QAM-Outer\_Full-25@0-Ant1-4.488-5.070-≤5-PASS

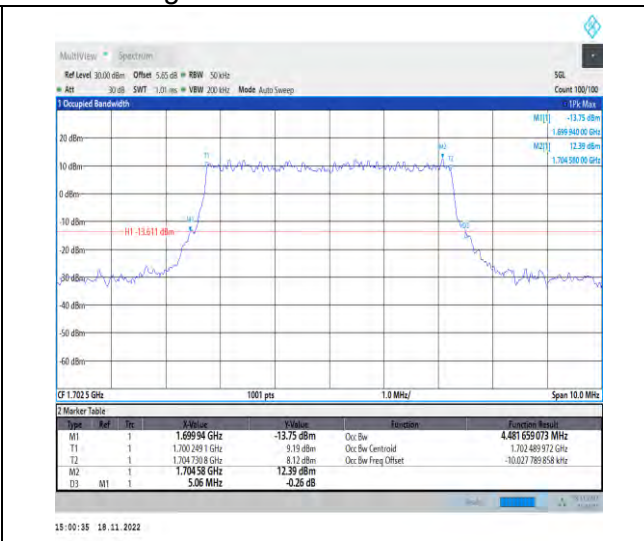


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1-N70-PC3-15-5-L-9-CP-256QAM-Outer\_Full-25@0-Ant1-4.491-5.090-≤5-PASS



1-N70-PC3-15-5-M-1-DFT-QPSK-Outer\_Full-25@0-Ant1-4.482-5.060-≤5-PASS



1-N70-PC3-15-5-M-2-DFT-PI2BPSK-Outer\_Full-25@0-Ant1-4.478-5.040-≤5-PASS



1-N70-PC3-15-5-M-3-DFT-16QAM-Outer\_Full-25@0-Ant1-4.493-5.080-≤5-PASS



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1-N70-PC3-15-5-M-4-DFT-64QAM-Outer\_Full-25@0-Ant1-4.481-5.030-≤5-PASS



1-N70-PC3-15-5-M-5-DFT-256QAM-Outer\_Full-25@0-Ant1-4.485-5.060-≤5-PASS



1-N70-PC3-15-5-M-6-CP-QPSK-Outer\_Full-25@0-Ant1-4.467-5.110-≤5-PASS

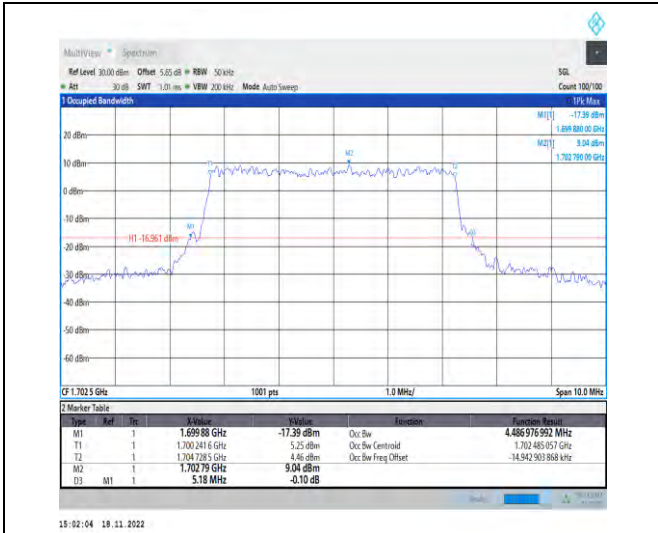


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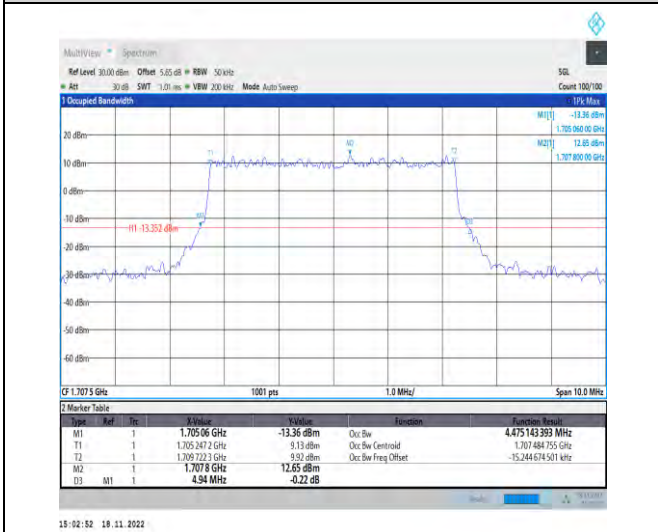
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1-N70-PC3-15-5-M-8-CP-64QAM-Outer\_Full-25@0-Ant1-4.487-5.180-≤5-PASS

1-N70-PC3-15-5-M-9-CP-256QAM-Outer\_Full-25@0-Ant1-4.471-5.120-≤5-PASS



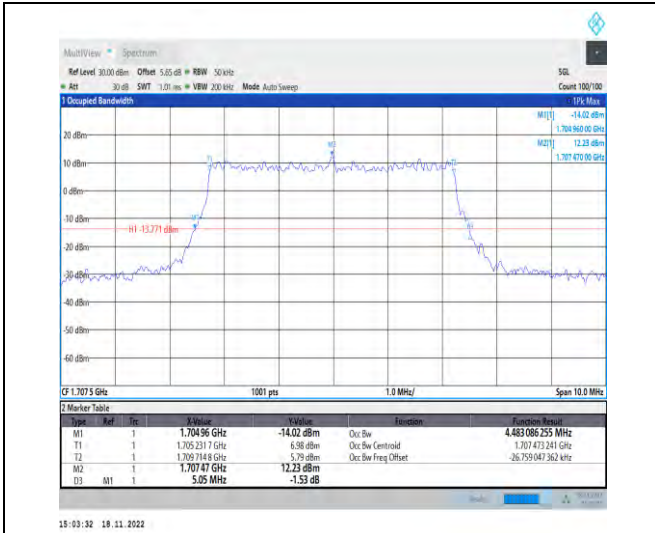
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1-N70-PC3-15-5-H-2-DFT-PI2BPSK-Outer\_Full-25@0-Ant1-4.474-5.060-≤5-PASS



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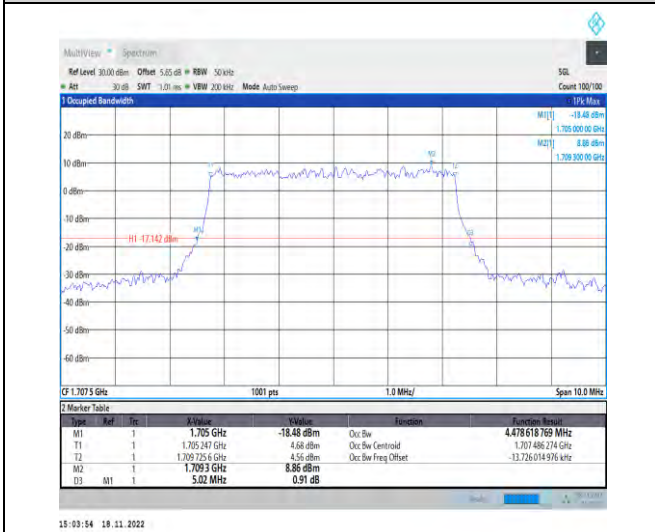
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1-N70-PC3-15-5-H-3-DFT-16QAM-Outer\_Full-25@0-Ant1-4.483-5.050-≤5-PASS



1-N70-PC3-15-5-H-4-DFT-64QAM-Outer\_Full-25@0-Ant1-4.472-5.050-≤5-PASS



1-N70-PC3-15-5-H-5-DFT-256QAM-Outer\_Full-25@0-Ant1-4.479-5.020-≤5-PASS

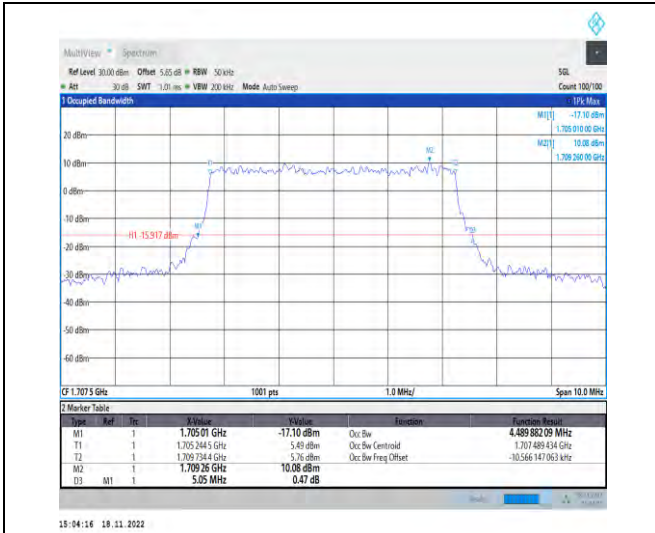


1-N70-PC3-15-5-H-6-CP-QPSK-Outer\_Full-25@0-Ant1-4.473-4.960-≤5-PASS



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1-N70-PC3-15-5-H-7-CP-16QAM-Outer\_Full-25@0-Ant1-4.49-5.050-≤5-PASS

1-N70-PC3-15-5-H-8-CP-64QAM-Outer\_Full-25@0-Ant1-4.477-5.060-≤5-PASS



1-N70-PC3-15-5-H-9-CP-256QAM-Outer\_Full-25@0-Ant1-4.492-5.130-≤5-PASS

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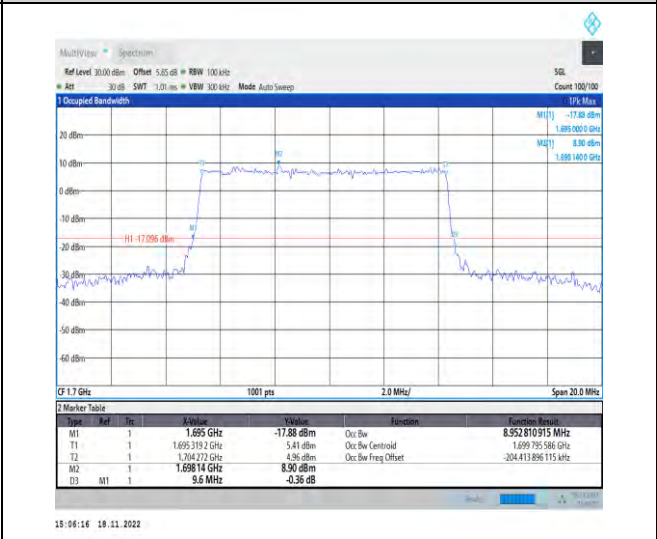
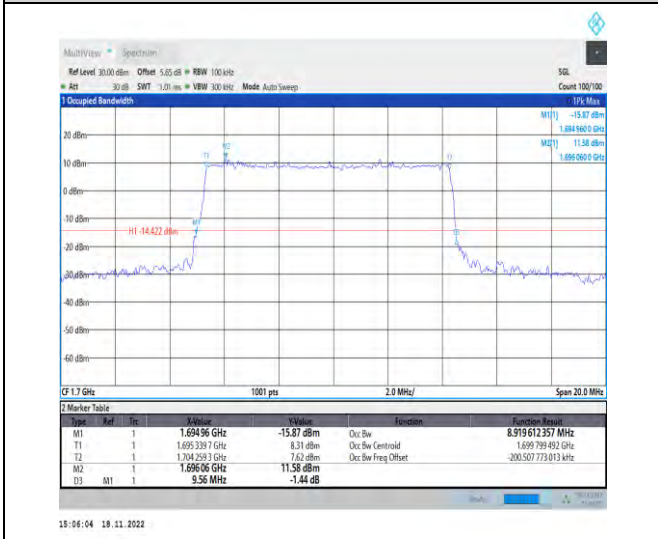
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1-N70-PC3-15-10-L-2-DFT-PI2BPSK-Outer\_Full-50 @0-Ant1-8.928-9.720-≤10-PASS

1-N70-PC3-15-10-L-3-DFT-16QAM-Outer\_Full-50 @0-Ant1-8.957-9.640-≤10-PASS



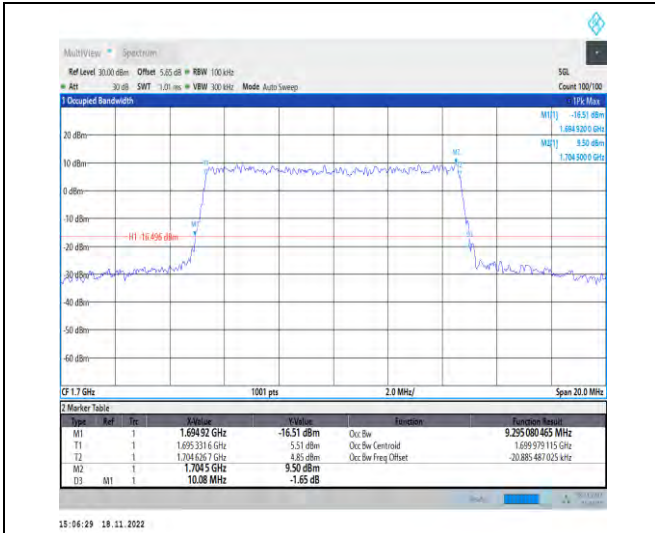
1-N70-PC3-15-10-L-4-DFT-64QAM-Outer\_Full-50 @0-Ant1-8.92-9.560-≤10-PASS

1-N70-PC3-15-10-L-5-DFT-256QAM-Outer\_Full-50 @0-Ant1-8.953-9.600-≤10-PASS



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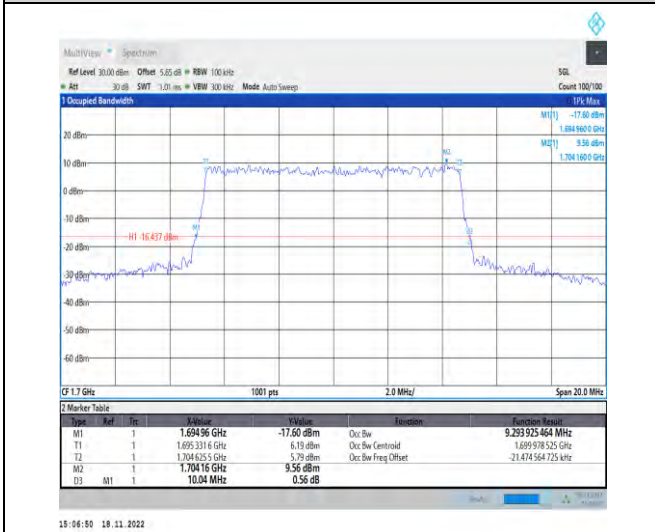
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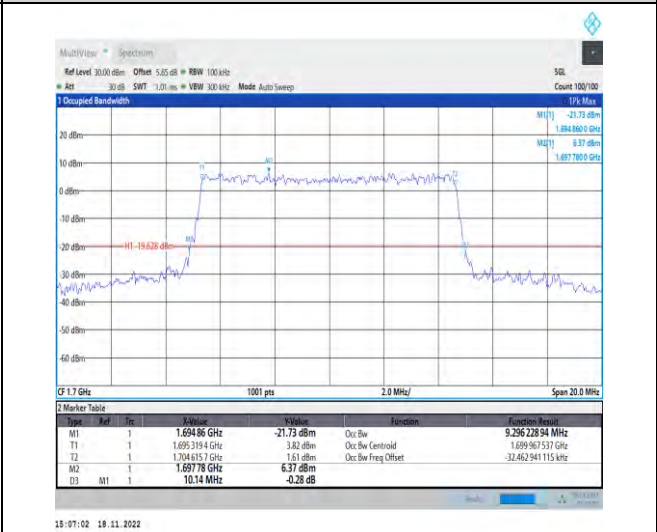
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Ant1-9.295-10.080-≤10-PASS



1-N70-PC3-15-10-L-7-CP-16QAM-Outer\_Full-52@0-  
Ant1-9.287-10.120-≤10-PASS



1-N70-PC3-15-10-L-8-CP-64QAM-Outer\_Full-52@0-  
Ant1-9.294-10.040-≤10-PASS



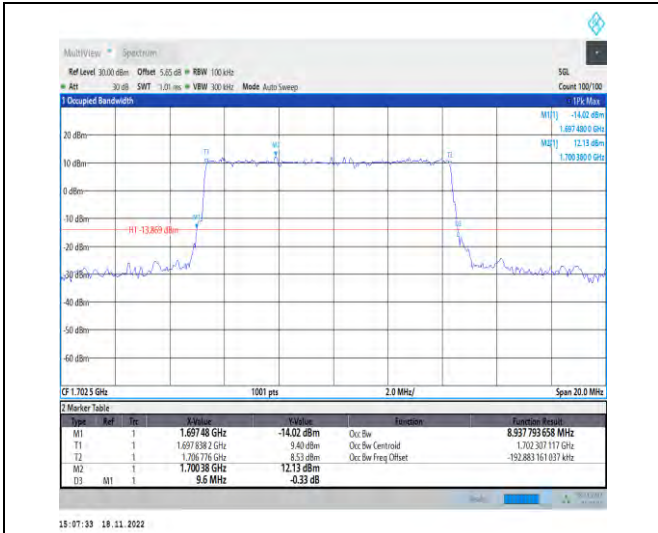
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Ant1-9.296-10.140-≤10-PASS



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1-N70-PC3-15-10-M-1-DFT-QPSK-Outer\_Full-50@0  
-Ant1-8.938-9.600-≤10-PASS



1-N70-PC3-15-10-M-2-DFT-PI2BPSK-Outer\_Full-50@0  
@0-Ant1-8.912-9.700-≤10-PASS



1-N70-PC3-15-10-M-3-DFT-16QAM-Outer\_Full-50@0  
0-Ant1-8.956-9.600-≤10-PASS



1-N70-PC3-15-10-M-4-DFT-64QAM-Outer\_Full-50@0  
0-Ant1-8.957-9.840-≤10-PASS



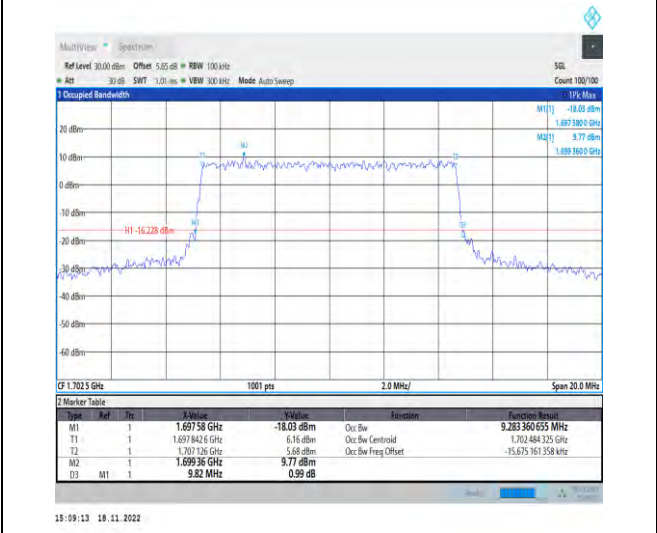
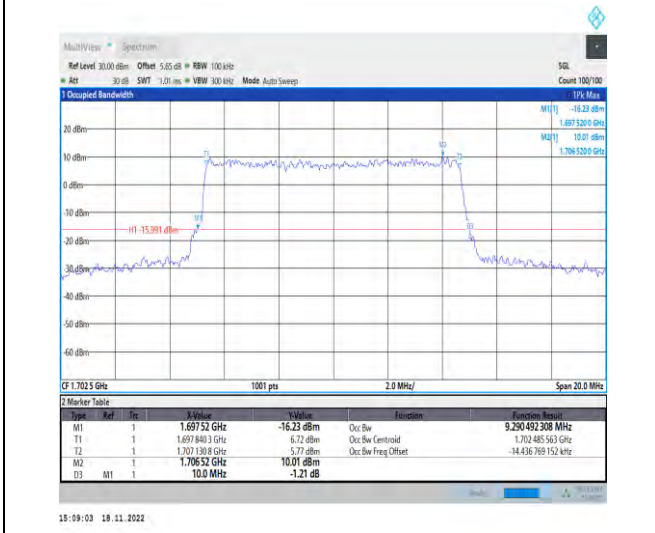
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1-N70-PC3-15-10-M-5-DFT-256QAM-Outer\_Full-50@0-Ant1-8.957-9.720-≤10-PASS

1-N70-PC3-15-10-M-6-CP-QPSK-Outer\_Full-52@0-Ant1-9.287-10.080-≤10-PASS



1-N70-PC3-15-10-M-7-CP-16QAM-Outer\_Full-52@0-Ant1-9.29-10.000-≤10-PASS

1-N70-PC3-15-10-M-8-CP-64QAM-Outer\_Full-52@0-Ant1-9.283-9.820-≤10-PASS



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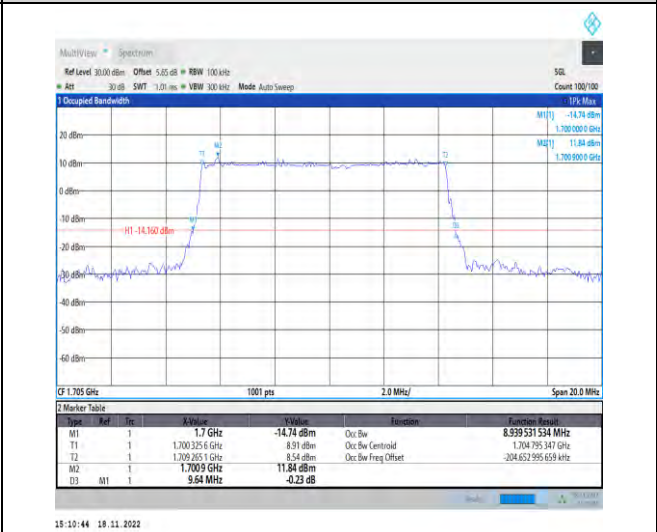
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0-Ant1-9.312-9.980-≤10-PASS



1-N70-PC3-15-10-H-1-DFT-QPSK-Outer\_Full-50@  
0-Ant1-8.944-9.660-≤10-PASS



1-N70-PC3-15-10-H-2-DFT-PI2BPSK-Outer\_Full-50  
@0-Ant1-8.924-9.680-≤10-PASS

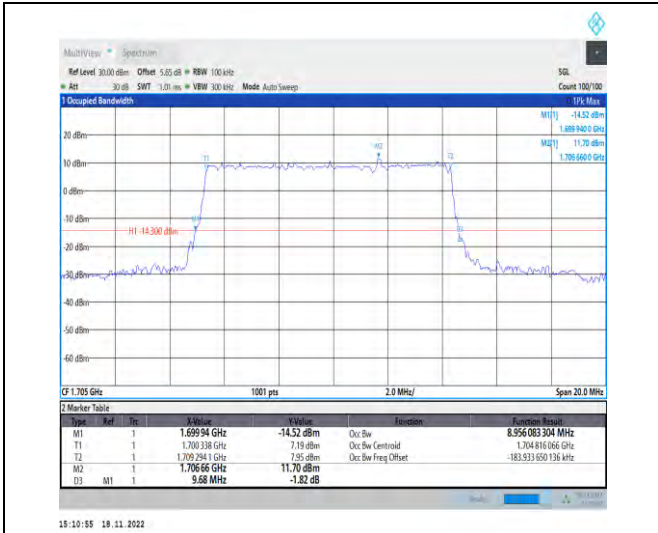


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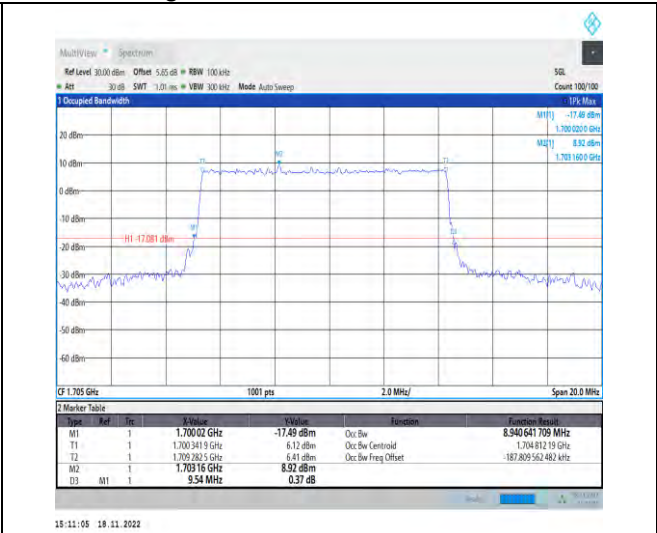


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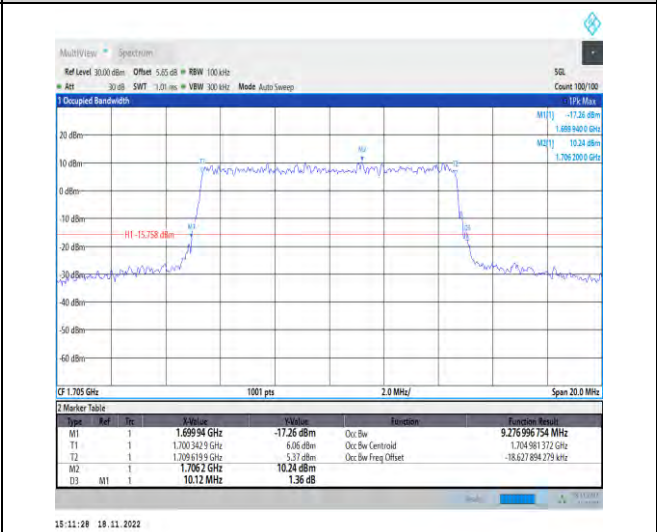
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1-N70-PC3-15-10-H-5-DFT-256QAM-Outer\_Full-50  
@0-Ant1-8.941-9.540-≤10-PASS



1-N70-PC3-15-10-H-6-CP-QPSK-Outer\_Full-52@0-  
Ant1-9.292-10.080-≤10-PASS

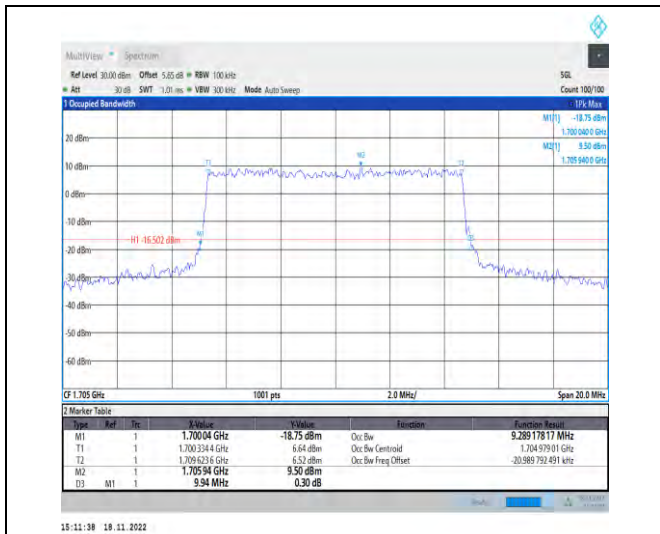


1-N70-PC3-15-10-H-7-CP-16QAM-Outer\_Full-52@0  
-Ant1-9.277-10.120-≤10-PASS



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1-N70-PC3-15-10-H-8-CP-64QAM-Outer\_Full-52@0  
 -Ant1-9.289-9.940-≤10-PASS



1-N70-PC3-15-10-H-9-CP-256QAM-Outer\_Full-52@  
 0-Ant1-9.291-10.200-≤10-PASS



1-N70-PC3-15-15-L-1-DFT-QPSK-Outer\_Full-75@0-  
 Ant1-13.452-14.490-≤15-PASS



1-N70-PC3-15-15-L-2-DFT-PI2BPSK-Outer\_Full-75  
 @0-Ant1-13.48-14.460-≤15-PASS



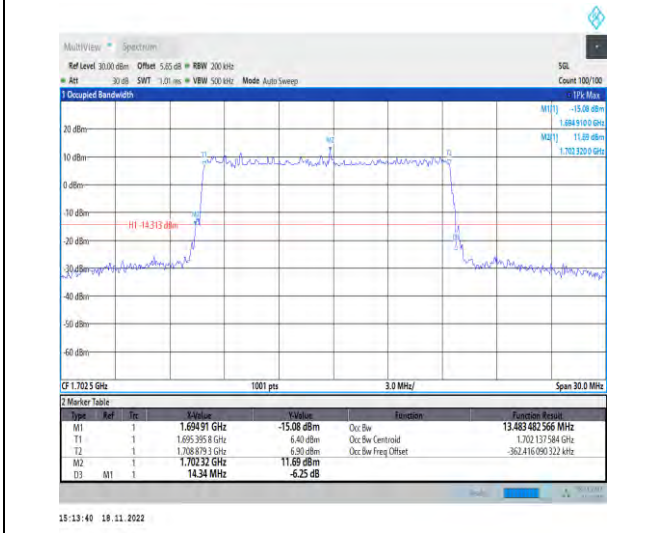
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1-N70-PC3-15-15-L-3-DFT-16QAM-Outer\_Full-75@0-Ant1-13.466-14.310-≤15-PASS

1-N70-PC3-15-15-L-4-DFT-64QAM-Outer\_Full-75@0-Ant1-13.438-14.340-≤15-PASS



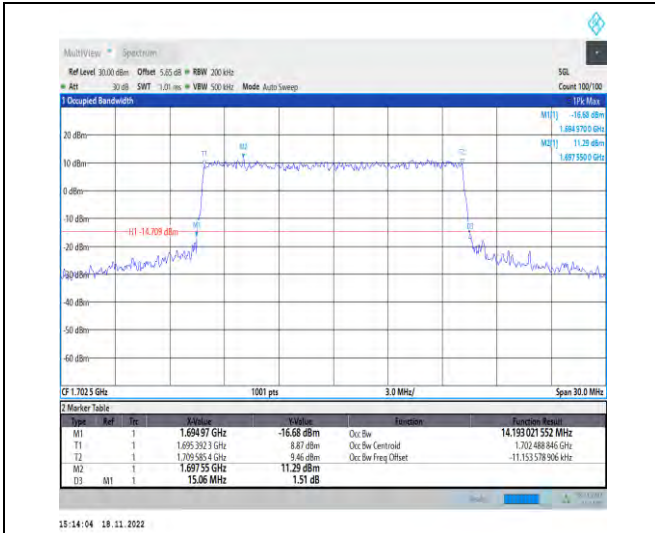
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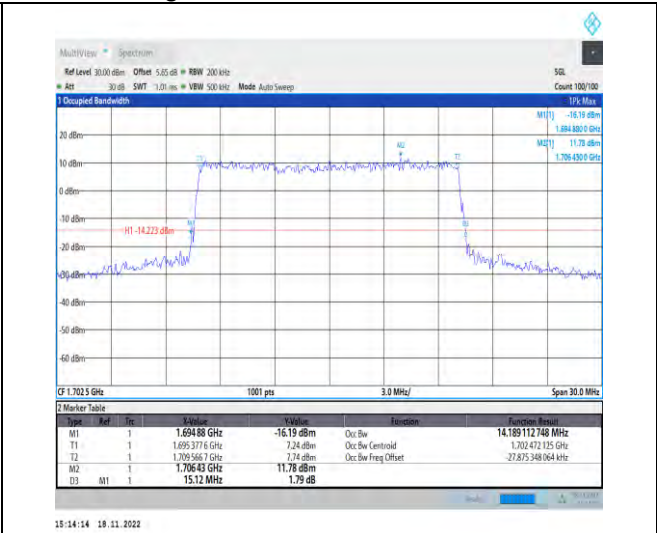


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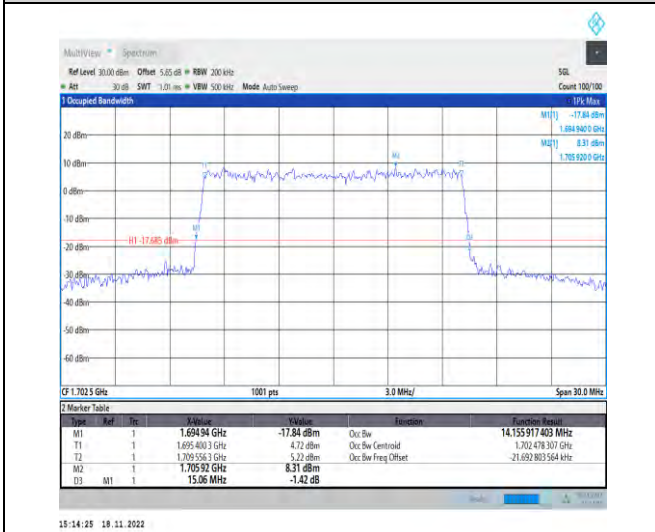
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1-N70-PC3-15-15-L-7-CP-16QAM-Outer\_Full-79@0-Ant1-14.193-15.060-≤15-PASS



1-N70-PC3-15-15-L-8-CP-64QAM-Outer\_Full-79@0-Ant1-14.189-15.120-≤15-PASS



1-N70-PC3-15-15-L-9-CP-256QAM-Outer\_Full-79@0-Ant1-14.156-15.060-≤15-PASS



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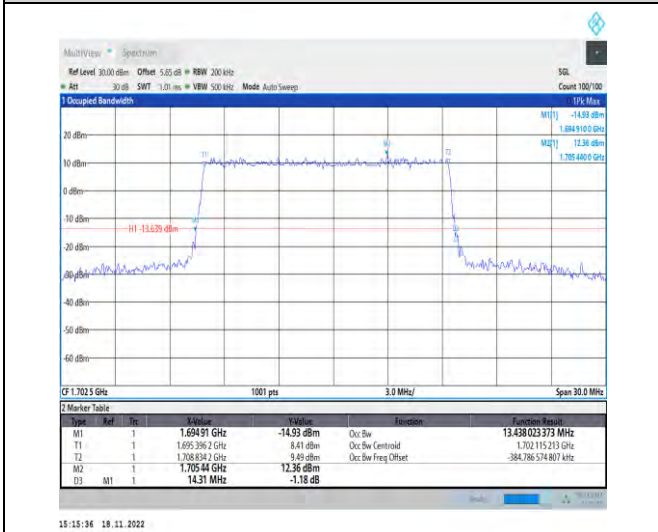
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1-N70-PC3-15-15-M-2-DFT-PI2BPSK-Outer\_Full-75 @0-Ant1-13.446-14.190-≤15-PASS

1-N70-PC3-15-15-M-3-DFT-16QAM-Outer\_Full-75 @0-Ant1-13.453-14.220-≤15-PASS



1-N70-PC3-15-15-M-4-DFT-64QAM-Outer\_Full-75 @0-Ant1-13.438-14.310-≤15-PASS

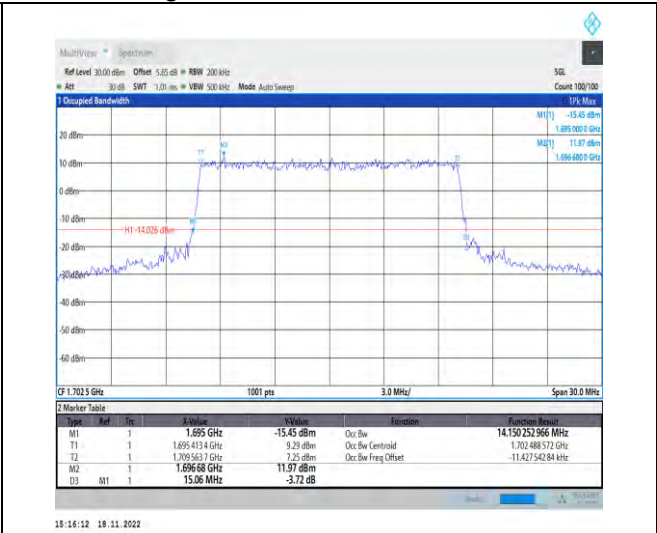
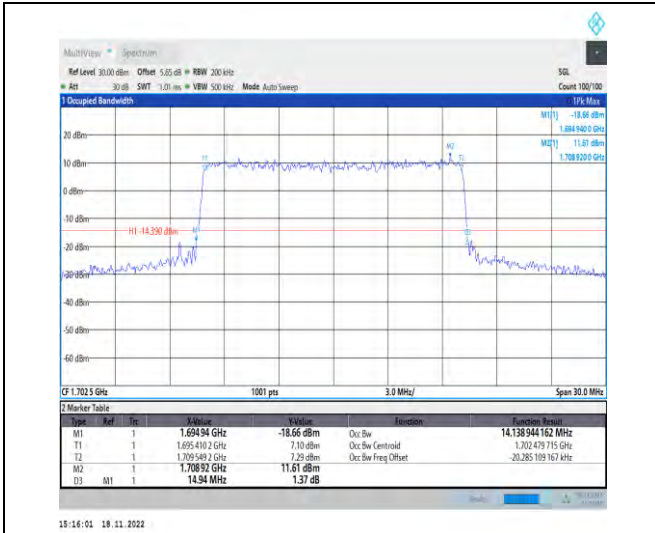
1-N70-PC3-15-15-M-5-DFT-256QAM-Outer\_Full-75 @0-Ant1-13.495-14.460-≤15-PASS



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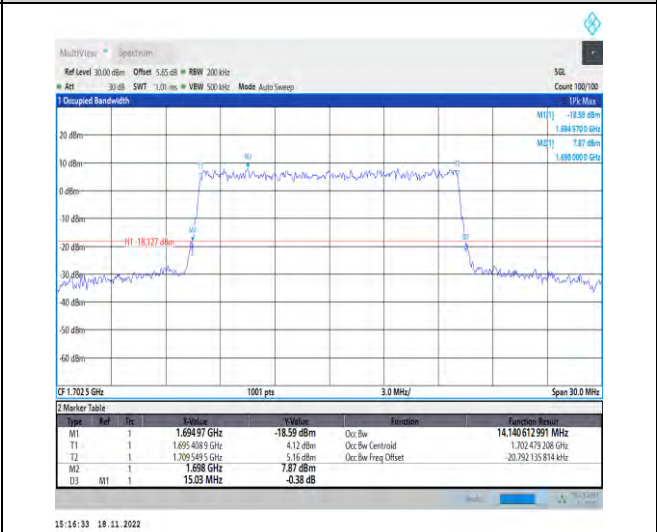
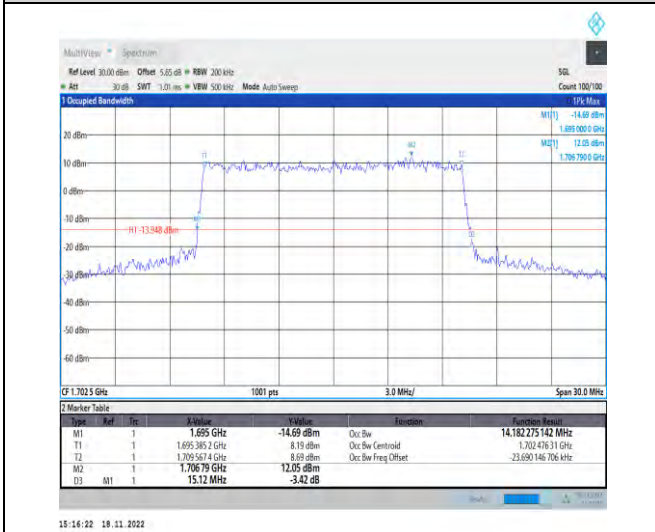
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1-N70-PC3-15-15-M-6-CP-QPSK-Outer\_Full-79@0-Ant1-14.139-14.940-≤15-PASS

1-N70-PC3-15-15-M-7-CP-16QAM-Outer\_Full-79@0-Ant1-14.15-15.060-≤15-PASS



1-N70-PC3-15-15-M-8-CP-64QAM-Outer\_Full-79@0-Ant1-14.182-15.120-≤15-PASS

1-N70-PC3-15-15-M-9-CP-256QAM-Outer\_Full-79@0-Ant1-14.141-15.030-≤15-PASS



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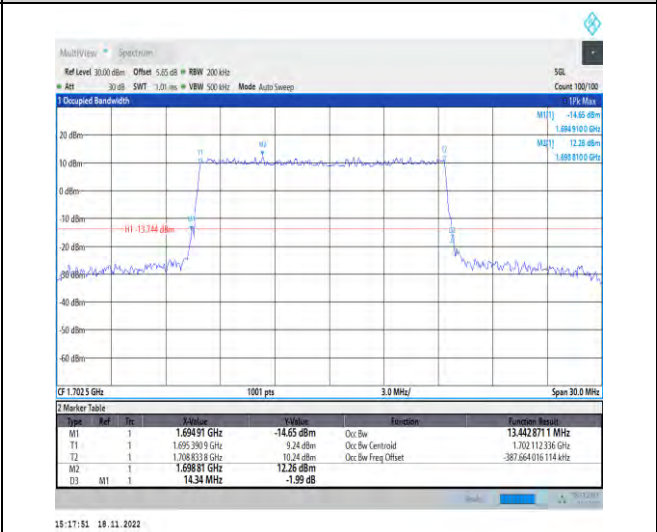
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1-N70-PC3-15-15-H-2-DFT-PI2BPSK-Outer\_Full-75@0-Ant1-13.47-14.430-≤15-PASS



1-N70-PC3-15-15-H-3-DFT-16QAM-Outer\_Full-75@0-Ant1-13.47-14.280-≤15-PASS

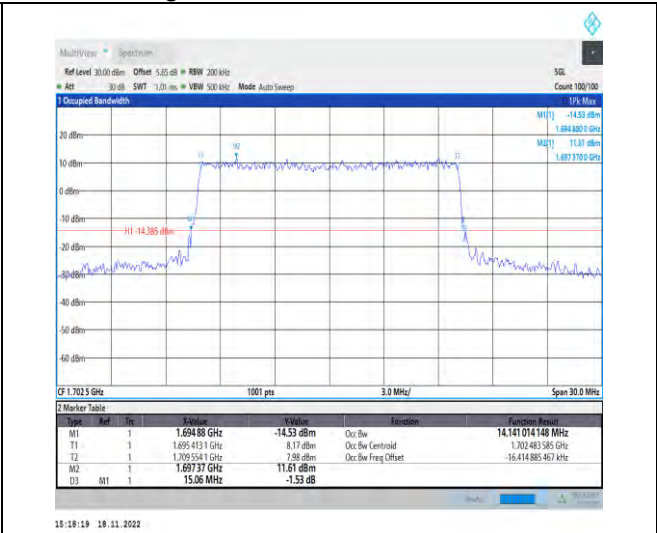
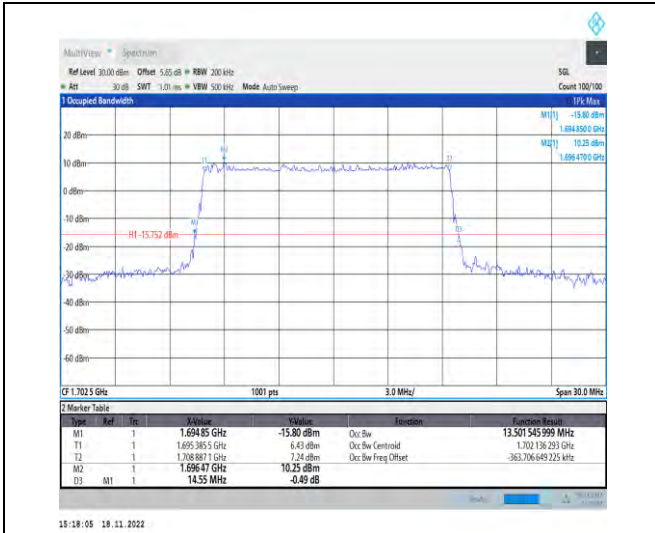


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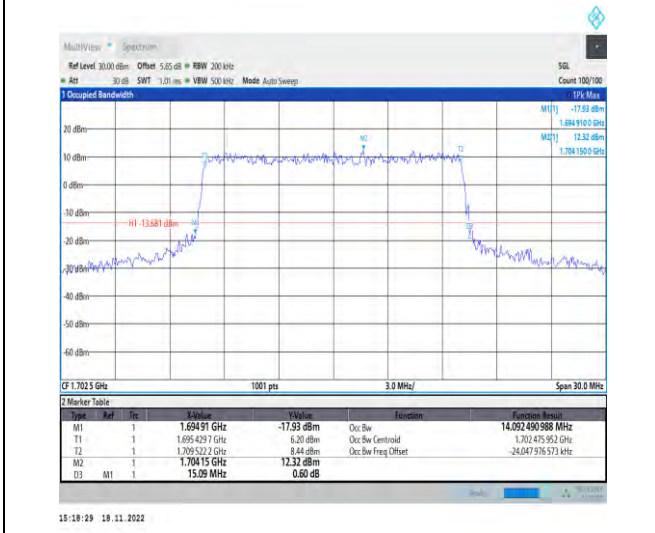
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1-N70-PC3-15-15-H-5-DFT-256QAM-Outer\_Full-75@0-Ant1-13.502-14.550-≤15-PASS

1-N70-PC3-15-15-H-6-CP-QPSK-Outer\_Full-79@0-Ant1-14.141-15.060-≤15-PASS



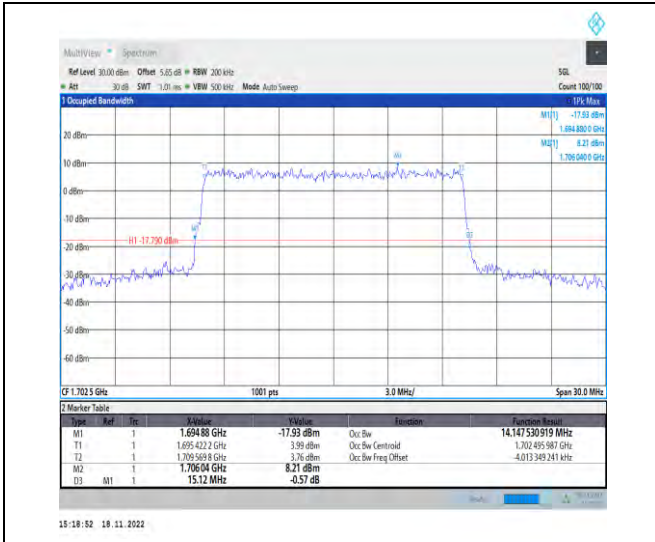
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1-N70-PC3-15-15-H-8-CP-64QAM-Outer\_Full-79@0-Ant1-14.162-15.000-≤15-PASS



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1-N70-PC3-15-15-H-9-CP-256QAM-Outer\_Full-79@  
0-Ant1-14.148-15.120-≤15-PASS



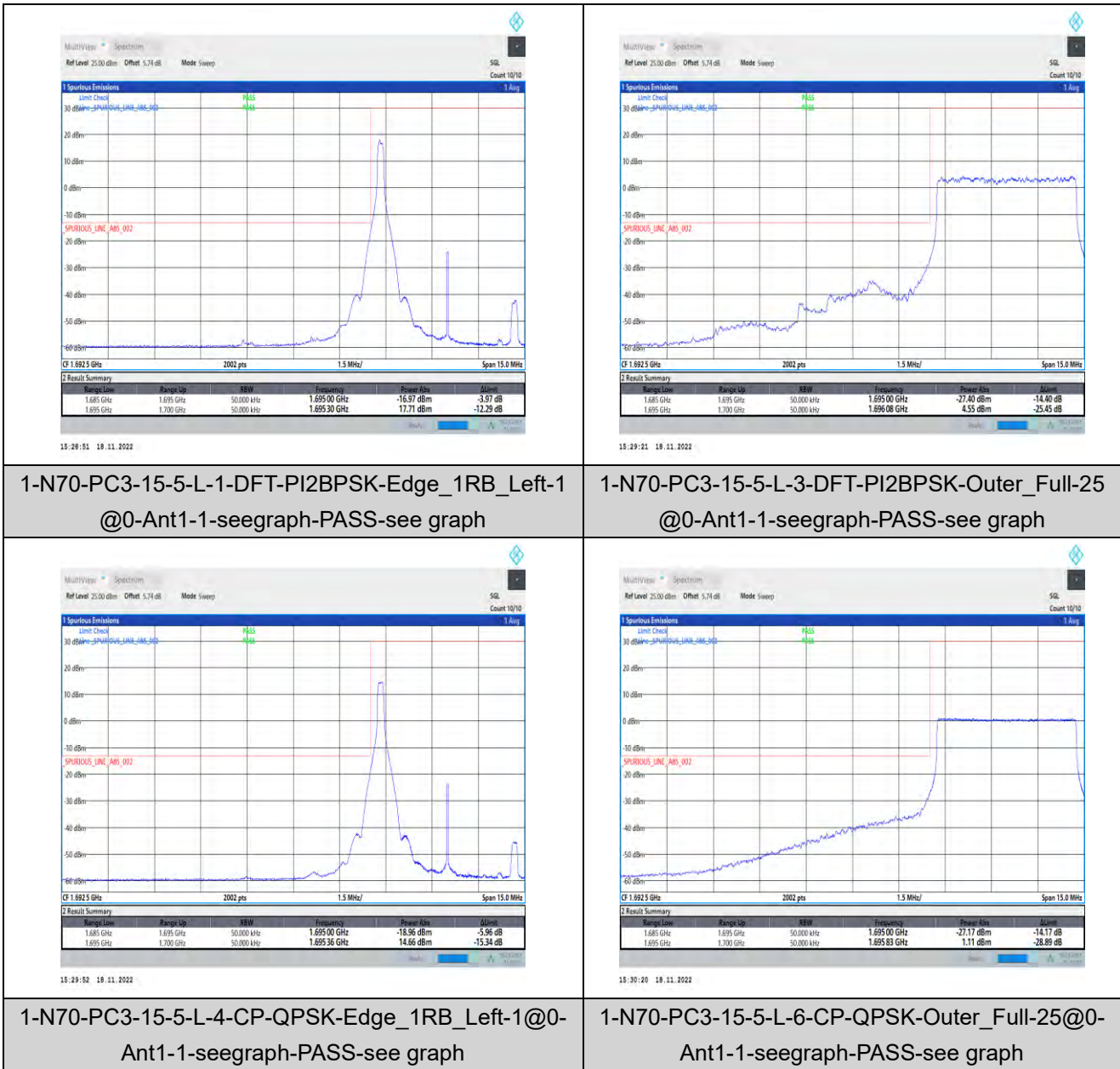
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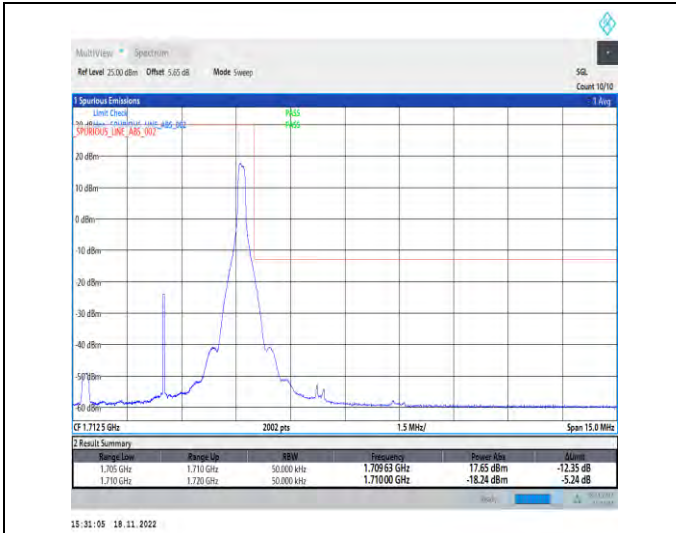
## Band Edge for SA

### Test Graphs

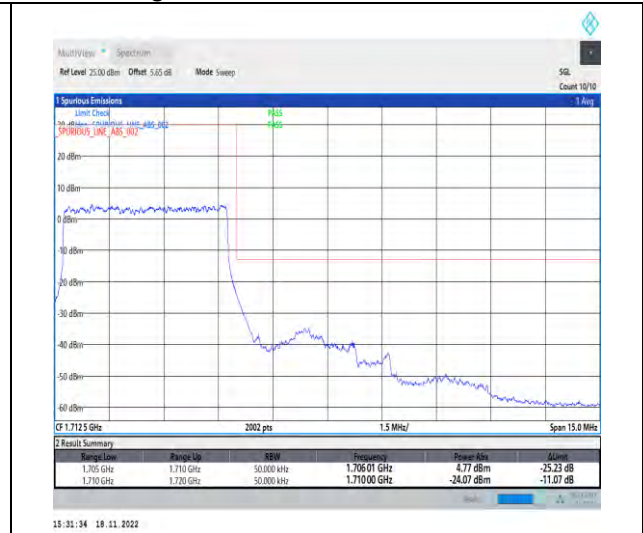


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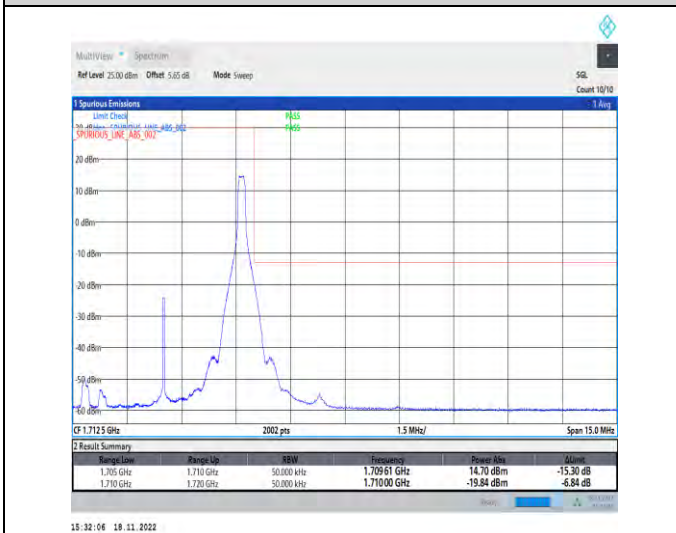
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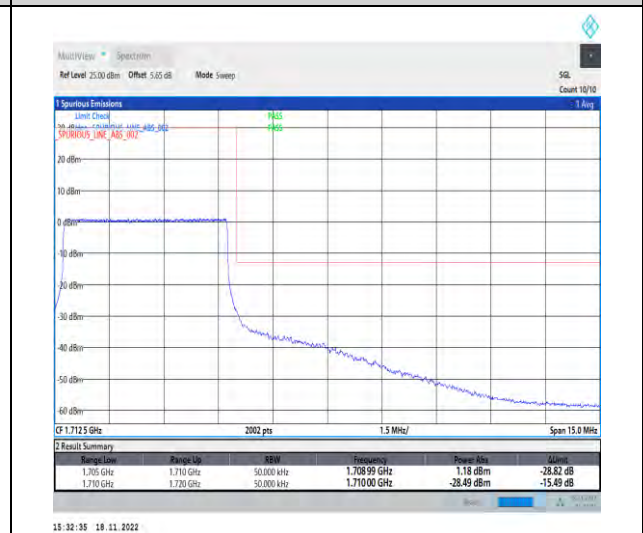
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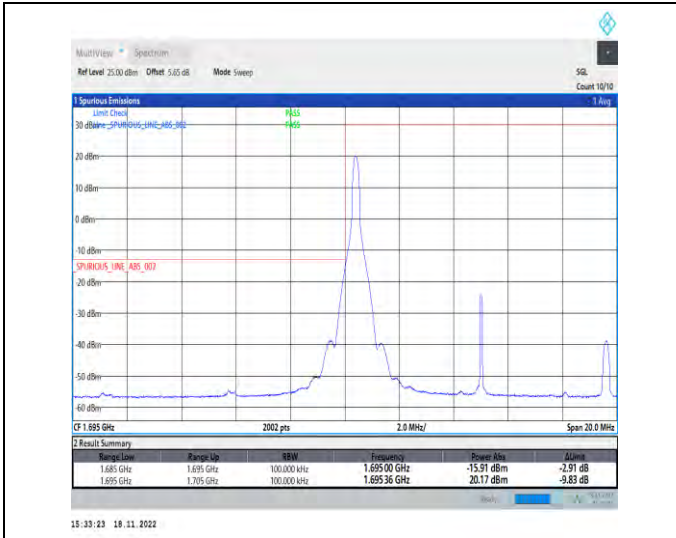


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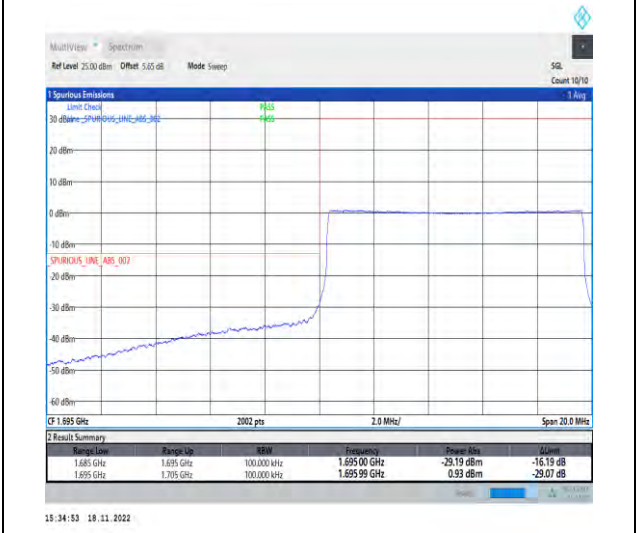
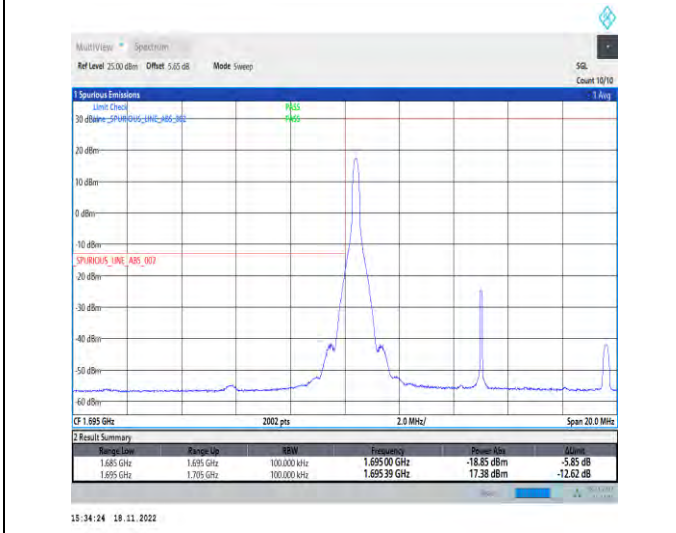
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1-N70-PC3-15-10-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-1-seegraph-PASS-see graph

1-N70-PC3-15-10-L-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-1-seegraph-PASS-see graph



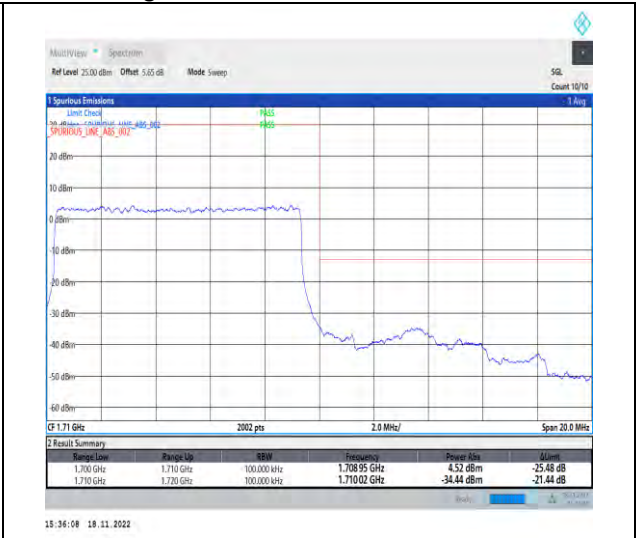
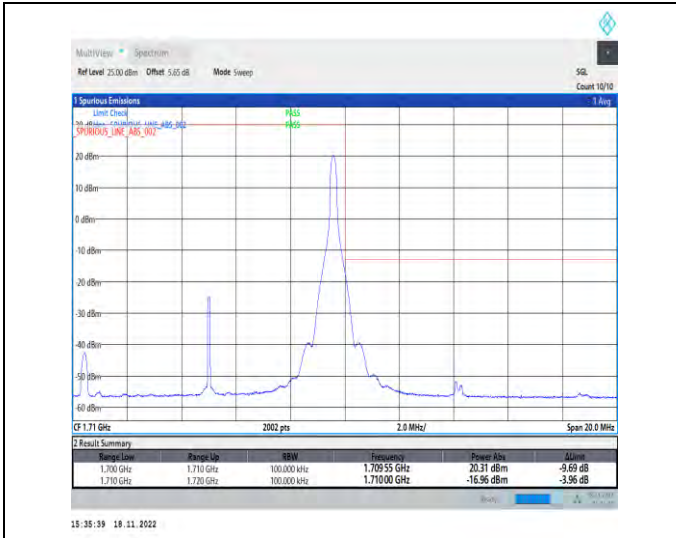
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1-N70-PC3-15-10-L-6-CP-QPSK-Outer\_Full-52@0-Ant1-1-seegraph-PASS-see graph



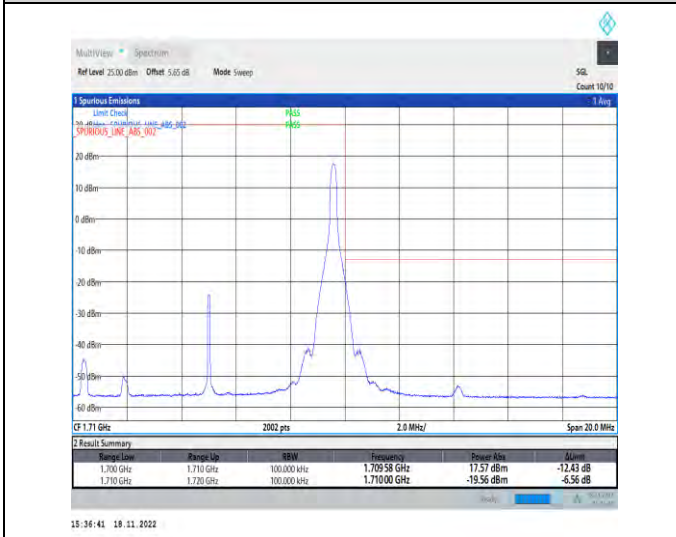
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1-N70-PC3-15-10-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-t@51-Ant1-1-seegraph-PASS-see graph

1-N70-PC3-15-10-H-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-1-seegraph-PASS-see graph



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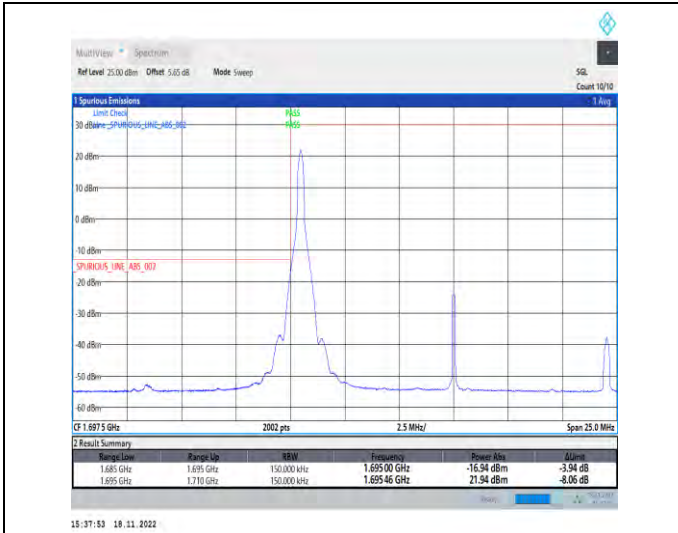
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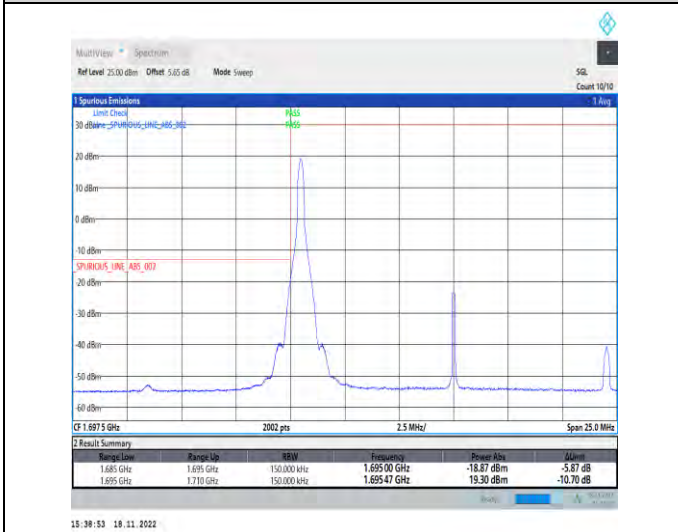
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1-N70-PC3-15-15-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-1-seegraph-PASS-see graph

1-N70-PC3-15-15-L-3-DFT-PI2BPSK-Outer\_Full-75@0-Ant1-1-seegraph-PASS-see graph



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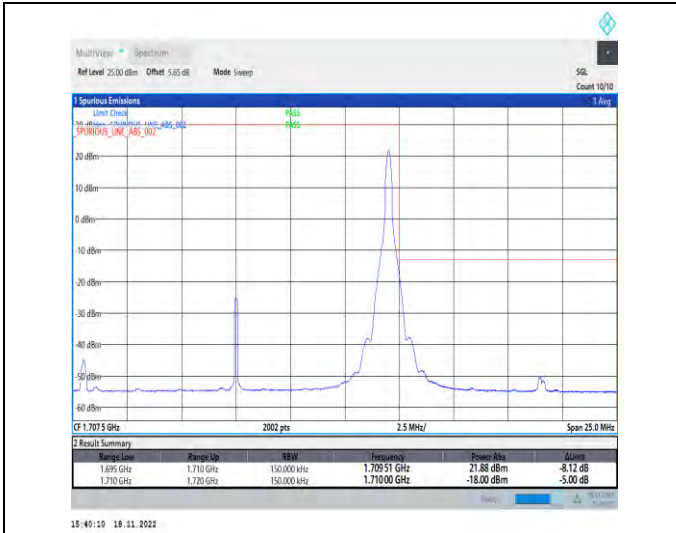
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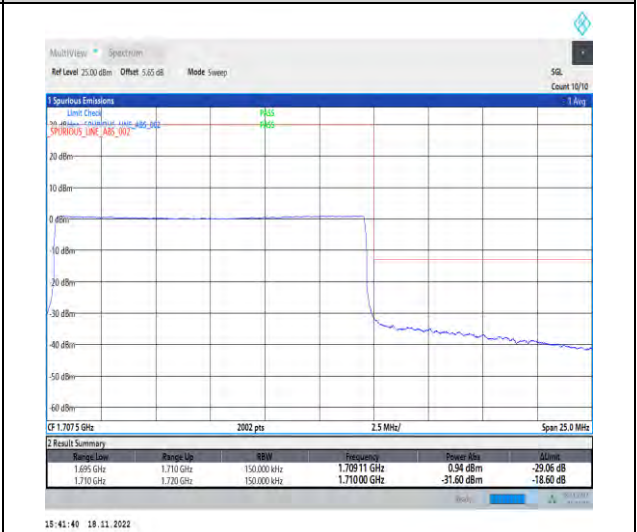
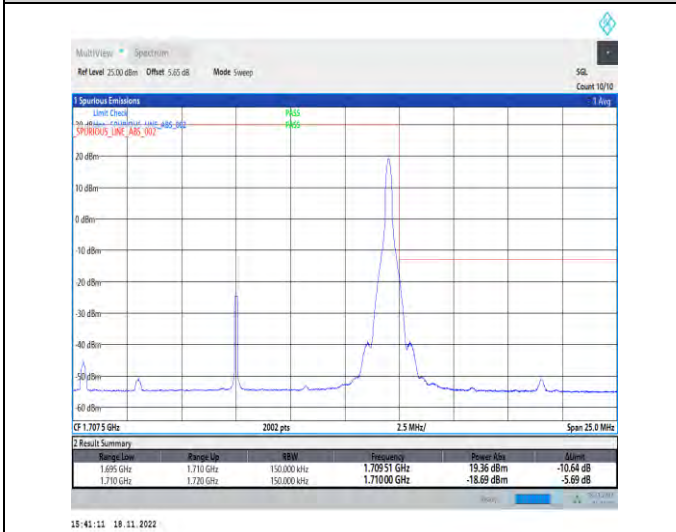
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1-N70-PC3-15-15-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-t1@78-Ant1-1-seegraph-PASS-see graph

1-N70-PC3-15-15-H-3-DFT-PI2BPSK-Outer\_Full-75@0-Ant1-1-seegraph-PASS-see graph



1-N70-PC3-15-15-H-5-CP-QPSK-Edge\_1RB\_Right1@78-Ant1-1-seegraph-PASS-see graph

1-N70-PC3-15-15-H-6-CP-QPSK-Outer\_Full-79@0-Ant1-1-seegraph-PASS-see graph



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## Conducted Spurious Emission for SA

### Test Graphs

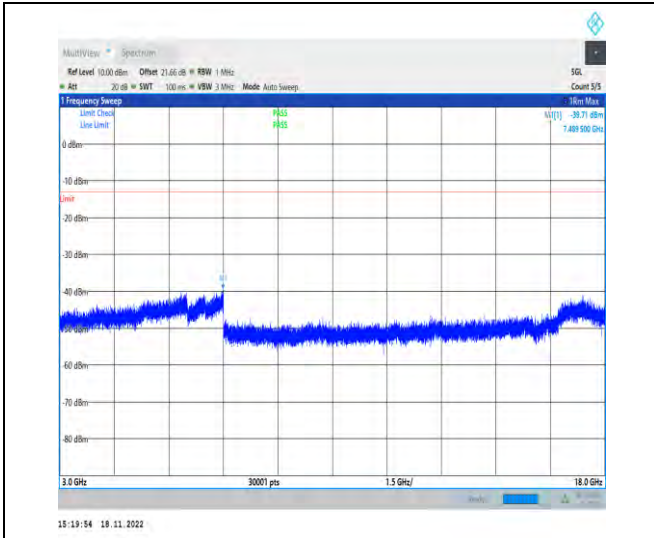
|   |   |
|---|---|
|   |   |
| <p>1-N70-PC3-15-15-L-1-DFT-PI2BPSK-Inner_1RB_Lef<br/>t-1@1-0.009-0.15-Ant1-0.02--69.12--43-PASS</p> | <p>1-N70-PC3-15-15-L-1-DFT-PI2BPSK-Inner_1RB_Lef<br/>t-1@1-0.15-30-Ant1-0.21--75.30--33-PASS</p>      |
|   |   |
| <p>1-N70-PC3-15-15-L-1-DFT-PI2BPSK-Inner_1RB_Lef<br/>t-1@1-30-1000-Ant1-31.94--60.25--23-PASS</p>   | <p>1-N70-PC3-15-15-L-1-DFT-PI2BPSK-Inner_1RB_Lef<br/>t-1@1-1000-3000-Ant1-1746.00--46.22--13-PASS</p> |



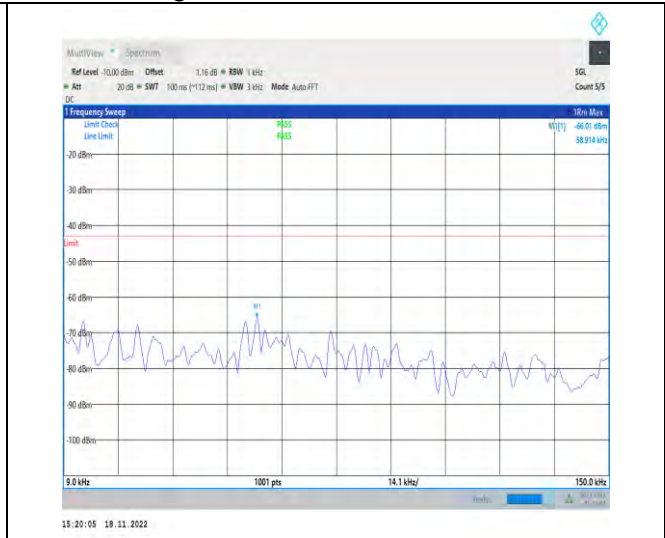
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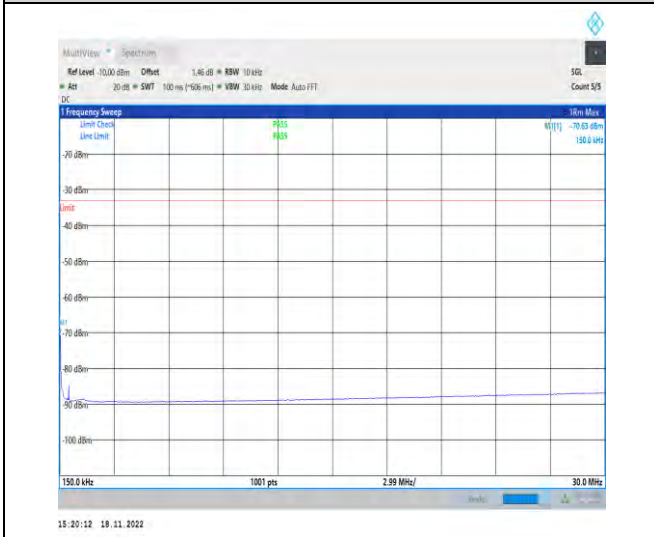
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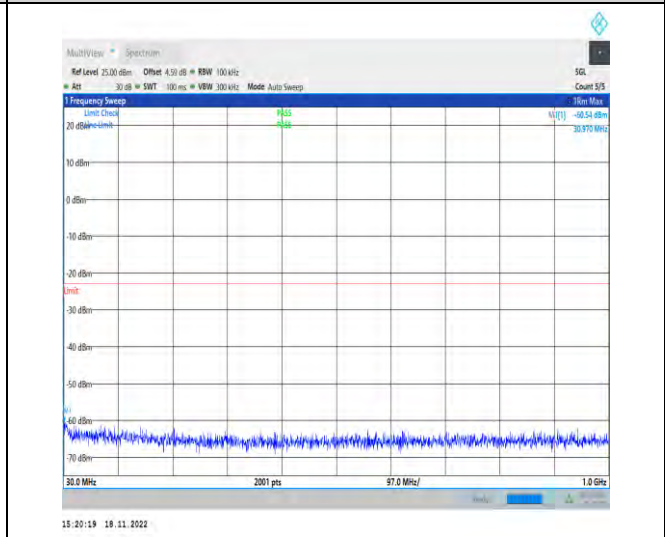
1-N70-PC3-15-15-L-1-DFT-PI2BPSK-Inner\_1RB\_Lef t-1@1-3000-18000-Ant1-7489.50--39.71--13-PASS



1-N70-PC3-15-15-M-1-DFT-PI2BPSK-Inner\_1RB\_Le ft-1@1-0.009-0.15-Ant1-0.06--66.01--43-PASS



1-N70-PC3-15-15-M-1-DFT-PI2BPSK-Inner\_1RB\_Le ft-1@1-0.15-30-Ant1-0.15--70.63--33-PASS

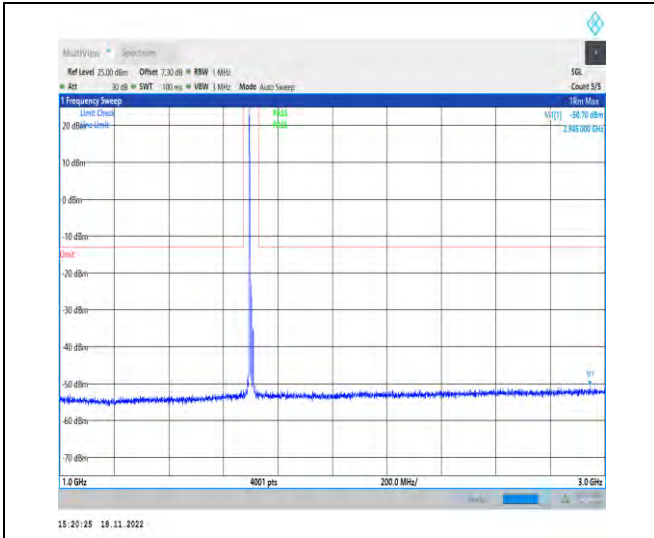


1-N70-PC3-15-15-M-1-DFT-PI2BPSK-Inner\_1RB\_Le ft-1@1-30-1000-Ant1-30.97--60.54--23-PASS

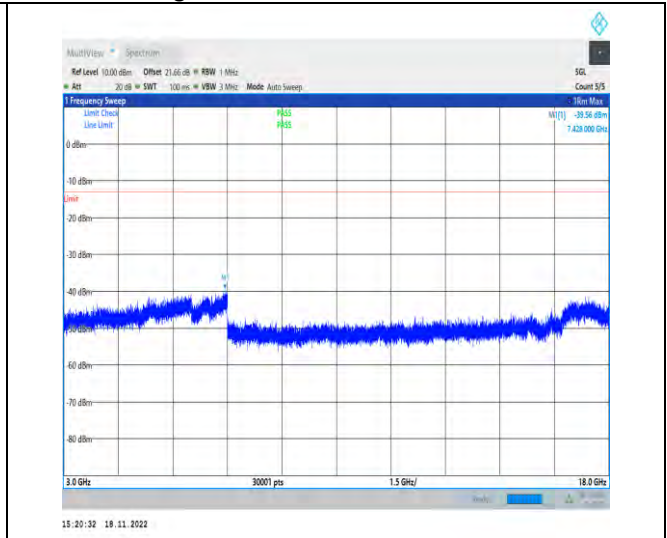


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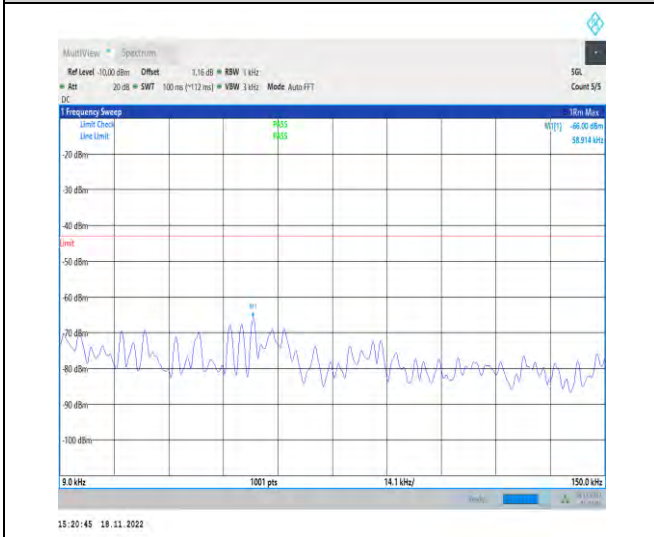
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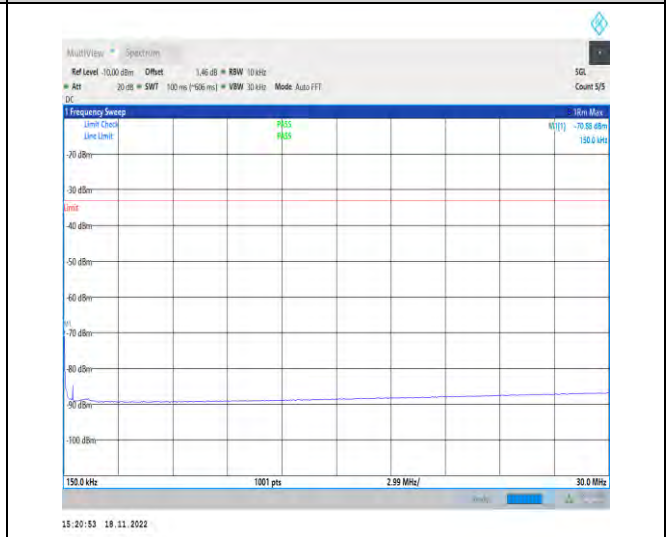
1-N70-PC3-15-15-M-1-DFT-PI2BPSK-Inner\_1RB\_Le ft-1@1-1000-3000-Ant1-2945.00--50.70--13-PASS



1-N70-PC3-15-15-M-1-DFT-PI2BPSK-Inner\_1RB\_Le ft-1@1-3000-18000-Ant1-7428.00--39.56--13-PASS



1-N70-PC3-15-15-H-1-DFT-PI2BPSK-Inner\_1RB\_Le ft-1@1-0.009-0.15-Ant1-0.06--66.00--43-PASS

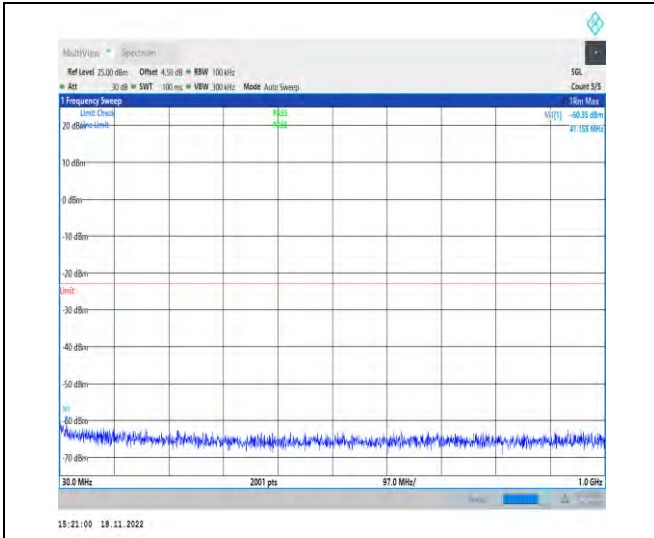


1-N70-PC3-15-15-H-1-DFT-PI2BPSK-Inner\_1RB\_Le ft-1@1-0.15-30-Ant1-0.15--70.88--33-PASS

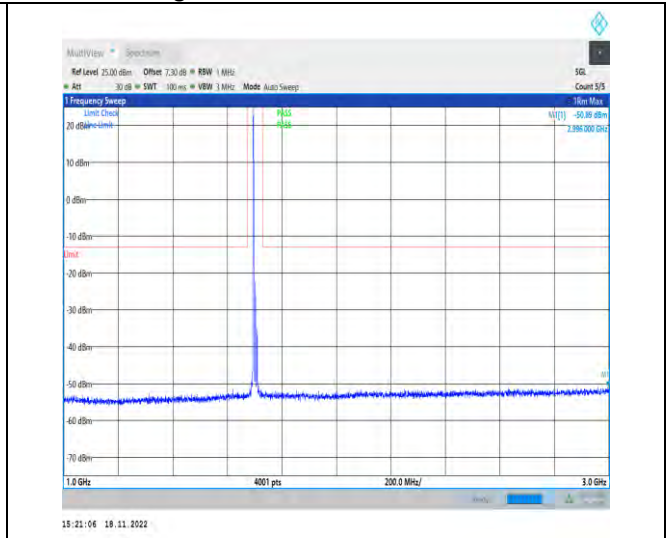


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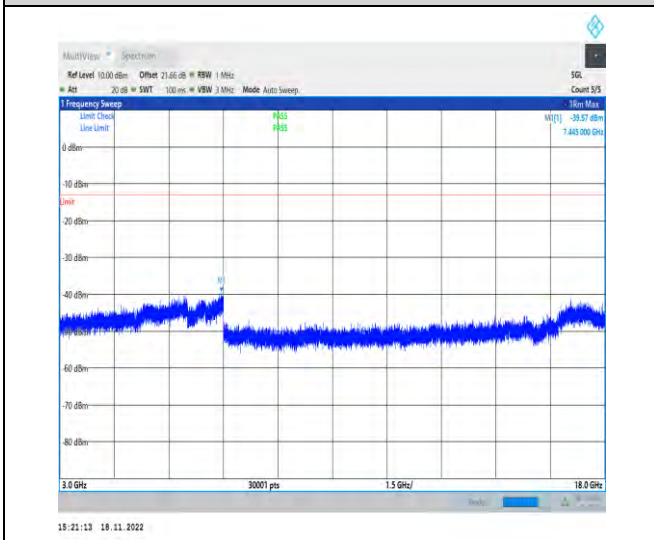
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1-N70-PC3-15-15-H-1-DFT-PI2BPSK-Inner\_1RB\_Le ft-1@1-30-1000-Ant1-41.16--60.35--23-PASS



1-N70-PC3-15-15-H-1-DFT-PI2BPSK-Inner\_1RB\_Le ft-1@1-1000-3000-Ant1-2996.00--50.89--13-PASS



1-N70-PC3-15-15-H-1-DFT-PI2BPSK-Inner\_1RB\_Le ft-1@1-3000-18000-Ant1-7445.00--39.57--13-PASS



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## Field Strength of Spurious Radiation

Test Band = SA Band 70 BW 15M\_ TM1

Test Channel = Mid Channel

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 3390.75         | 59.92          | -45.93      | 29.44    | -51.82      | -13.00      | 38.82       | 296         | 45        | Horizontal |
| 2               | 5086.5          | 53.70          | -44.38      | 32.60    | -53.34      | -13.00      | 40.34       | 265         | 144       | Horizontal |
| 3               | 6782.25         | 46.66          | -42.57      | 35.76    | -55.40      | -13.00      | 42.40       | 284         | 178       | Horizontal |
| 4               | 8477.25         | 40.50          | -39.56      | 38.02    | -56.29      | -13.00      | 43.29       | 142         | 225       | Horizontal |
| 5               | 10175.04        | 33.12          | -36.61      | 38.69    | -60.06      | -13.00      | 47.06       | 255         | 277       | Horizontal |
| 6               | 11870.88        | 31.08          | -35.13      | 38.73    | -60.58      | -13.00      | 47.58       | 263         | 28        | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3390.75         | 65.43          | -45.93      | 29.44    | -46.31      | -13.00      | 33.31       | 196         | 216       | Vertical |
| 2               | 5086.5          | 64.56          | -44.38      | 32.60    | -42.48      | -13.00      | 29.48       | 265         | 0         | Vertical |
| 3               | 6781.5          | 57.77          | -42.57      | 35.76    | -44.29      | -13.00      | 31.29       | 284         | 52        | Vertical |
| 4               | 8477.25         | 49.76          | -39.56      | 38.02    | -47.03      | -13.00      | 34.03       | 142         | 133       | Vertical |
| 5               | 10175.04        | 33.48          | -36.61      | 38.69    | -59.70      | -13.00      | 46.70       | 255         | 357       | Vertical |
| 6               | 11870.88        | 30.51          | -35.13      | 38.73    | -61.15      | -13.00      | 48.15       | 263         | 1         | Vertical |



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**Test Band = SA Band 70 BW 10M\_ TM1**

**Test Channel = Low Channel**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 3390.75         | 57.74          | -45.93      | 29.44    | -54.00      | -13.00      | 41.00       | 296         | 344       | Horizontal |
| 2               | 5085.75         | 51.51          | -44.38      | 32.60    | -55.53      | -13.00      | 42.53       | 265         | 146       | Horizontal |
| 3               | 6781.5          | 49.07          | -42.57      | 35.76    | -52.99      | -13.00      | 39.99       | 241         | 62        | Horizontal |
| 4               | 8477.95         | 35.88          | -39.55      | 38.03    | -60.91      | -13.00      | 47.91       | 142         | 278       | Horizontal |
| 5               | 10173.54        | 32.83          | -36.62      | 38.69    | -60.36      | -13.00      | 47.36       | 263         | 163       | Horizontal |
| 6               | 11869.13        | 31.10          | -35.13      | 38.73    | -60.56      | -13.00      | 47.56       | 221         | 327       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3390.75         | 66.05          | -45.93      | 29.44    | -45.69      | -13.00      | 32.69       | 196         | 213       | Vertical |
| 2               | 5086.5          | 59.25          | -44.38      | 32.60    | -47.79      | -13.00      | 34.79       | 265         | 133       | Vertical |
| 3               | 6781.5          | 59.45          | -42.57      | 35.76    | -42.61      | -13.00      | 29.61       | 284         | 1         | Vertical |
| 4               | 8477.25         | 48.59          | -39.56      | 38.02    | -48.20      | -13.00      | 35.20       | 142         | 133       | Vertical |
| 5               | 10173.54        | 33.80          | -36.62      | 38.69    | -59.39      | -13.00      | 46.39       | 266         | 198       | Vertical |
| 6               | 11869.13        | 31.71          | -35.13      | 38.73    | -59.95      | -13.00      | 46.95       | 336         | 86        | Vertical |



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**Test Band = SA Band 70 BW 10M\_ TM1**

**Test Channel = Mid Channel**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 3396            | 57.34          | -45.93      | 29.44    | -54.41      | -13.00      | 41.41       | 196         | 1         | Horizontal |
| 2               | 5094            | 51.83          | -44.33      | 32.60    | -55.16      | -13.00      | 42.16       | 265         | 145       | Horizontal |
| 3               | 6791.25         | 48.65          | -42.56      | 35.78    | -53.39      | -13.00      | 40.39       | 241         | 180       | Horizontal |
| 4               | 8489.25         | 39.79          | -39.53      | 38.04    | -56.96      | -13.00      | 43.96       | 142         | 78        | Horizontal |
| 5               | 10188.54        | 34.81          | -36.58      | 38.71    | -58.32      | -13.00      | 45.32       | 255         | 45        | Horizontal |
| 6               | 11886.63        | 30.31          | -35.08      | 38.71    | -61.32      | -13.00      | 48.32       | 263         | 229       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3396            | 65.20          | -45.93      | 29.44    | -46.55      | -13.00      | 33.55       | 201         | 215       | Vertical |
| 2               | 5094            | 57.65          | -44.33      | 32.60    | -49.34      | -13.00      | 36.34       | 142         | 0         | Vertical |
| 3               | 6792            | 59.29          | -42.56      | 35.78    | -42.75      | -13.00      | 29.75       | 255         | 0         | Vertical |
| 4               | 8489.25         | 50.14          | -39.53      | 38.04    | -46.61      | -13.00      | 33.61       | 241         | 129       | Vertical |
| 5               | 10188.54        | 33.99          | -36.58      | 38.71    | -59.14      | -13.00      | 46.14       | 126         | 129       | Vertical |
| 6               | 11886.63        | 30.96          | -35.08      | 38.71    | -60.67      | -13.00      | 47.67       | 263         | 0         | Vertical |



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**Test Band = SA Band 70 BW 10M\_ TM1**

**Test Channel = High Channel**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 3400.5          | 57.21          | -45.93      | 29.44    | -54.54      | -13.00      | 41.54       | 296         | 51        | Horizontal |
| 2               | 5101.5          | 52.03          | -44.29      | 32.60    | -54.92      | -13.00      | 41.92       | 265         | 2         | Horizontal |
| 3               | 6801.75         | 49.32          | -42.56      | 35.80    | -52.69      | -13.00      | 39.69       | 241         | 178       | Horizontal |
| 4               | 8502            | 39.92          | -39.52      | 38.05    | -56.80      | -13.00      | 43.80       | 142         | 82        | Horizontal |
| 5               | 10212.75        | 35.52          | -36.59      | 38.73    | -57.59      | -13.00      | 44.59       | 263         | 51        | Horizontal |
| 6               | 12084           | 33.65          | -35.21      | 38.68    | -58.14      | -13.00      | 45.14       | 211         | 327       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3400.5          | 64.50          | -45.93      | 29.44    | -47.25      | -13.00      | 34.25       | 196         | 118       | Vertical |
| 2               | 5100.75         | 58.62          | -44.29      | 32.60    | -48.33      | -13.00      | 35.33       | 265         | 0         | Vertical |
| 3               | 6801.75         | 60.08          | -42.56      | 35.80    | -41.93      | -13.00      | 28.93       | 284         | 35        | Vertical |
| 4               | 8502            | 49.41          | -39.52      | 38.05    | -47.31      | -13.00      | 34.31       | 142         | 134       | Vertical |
| 5               | 10202.25        | 37.10          | -36.56      | 38.72    | -55.99      | -13.00      | 42.99       | 255         | 249       | Vertical |
| 6               | 12108           | 33.53          | -35.19      | 38.71    | -58.21      | -13.00      | 45.21       | 263         | 345       | Vertical |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## 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 |
| N70     | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | VH      | NT          | 0.600000      | 0.000352        | PASS    |
| N70     | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | VN      | NT          | 0.200000      | 0.000117        | PASS    |
| N70     | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | VL      | NT          | 1.100000      | 0.000646        | PASS    |
| N70     | 15  | 15        | CP-QPSK     | M       | Outer_Full | VH      | NT          | -6.200000     | -0.003642       | PASS    |
| N70     | 15  | 15        | CP-QPSK     | M       | Outer_Full | VN      | NT          | -7.200000     | -0.004229       | PASS    |
| N70     | 15  | 15        | CP-QPSK     | M       | Outer_Full | VL      | NT          | -3.800000     | -0.002232       | PASS    |



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Frequency Error VS. Temperature

Temperature

| Band | SCS | Bandwidth | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
|------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| N70  | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | -30         | -2.300000     | -0.001351       | PASS    |
| N70  | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | -20         | -0.400000     | -0.000235       | PASS    |
| N70  | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | -10         | -0.900000     | -0.000529       | PASS    |
| N70  | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | 0           | -0.200000     | -0.000117       | PASS    |
| N70  | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | 10          | -0.200000     | -0.000117       | PASS    |
| N70  | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | 20          | 0.600000      | 0.000352        | PASS    |
| N70  | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | 30          | 3.000000      | 0.001762        | PASS    |
| N70  | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | 40          | -0.900000     | -0.000529       | PASS    |
| N70  | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | 50          | -1.300000     | -0.000764       | PASS    |
| N70  | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | -30         | -0.900000     | -0.000529       | PASS    |
| N70  | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | -20         | -3.000000     | -0.001762       | PASS    |
| N70  | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | -10         | -3.400000     | -0.001997       | PASS    |
| N70  | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | 0           | -6.300000     | -0.003700       | PASS    |
| N70  | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | 10          | -5.200000     | -0.003054       | PASS    |
| N70  | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | 20          | -2.700000     | -0.001586       | PASS    |
| N70  | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | 30          | -2.100000     | -0.001233       | PASS    |
| N70  | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | 40          | -4.700000     | -0.002761       | PASS    |
| N70  | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | 50          | -5.000000     | -0.002937       | PASS    |

---End of Attachment---



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