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Appendix B.37

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 | LIMIT |
|------|-----|-----------|-------------|---------|-----------------|-------------|-------|-------|
| N70 | 15 | 5 | DFT-PI2BPSK | L | Inner_1RB_Left | 23.1 | 23.86 | 30 |
| N70 | 15 | 5 | DFT-PI2BPSK | L | Inner_1RB_Right | 23.14 | 23.9 | 30 |
| N70 | 15 | 5 | DFT-PI2BPSK | L | Outer_Full | 22.61 | 23.37 | 30 |
| N70 | 15 | 5 | DFT-QPSK | L | Inner_1RB_Left | 23.15 | 23.91 | 30 |
| N70 | 15 | 5 | DFT-QPSK | L | Inner_1RB_Right | 23.14 | 23.9 | 30 |
| N70 | 15 | 5 | DFT-QPSK | L | Outer_Full | 22.09 | 22.85 | 30 |
| N70 | 15 | 5 | DFT-16QAM | L | Inner_1RB_Left | 22.16 | 22.92 | 30 |
| N70 | 15 | 5 | DFT-16QAM | L | Inner_1RB_Right | 22.2 | 22.96 | 30 |
| N70 | 15 | 5 | DFT-16QAM | L | Outer_Full | 21.05 | 21.81 | 30 |
| N70 | 15 | 5 | DFT-64QAM | L | Inner_1RB_Left | 20.57 | 21.33 | 30 |
| N70 | 15 | 5 | DFT-64QAM | L | Inner_1RB_Right | 20.65 | 21.41 | 30 |
| N70 | 15 | 5 | DFT-64QAM | L | Outer_Full | 20.54 | 21.3 | 30 |
| N70 | 15 | 5 | DFT-256QAM | L | Inner_1RB_Left | 18.62 | 19.38 | 30 |
| N70 | 15 | 5 | DFT-256QAM | L | Inner_1RB_Right | 18.56 | 19.32 | 30 |
| N70 | 15 | 5 | DFT-256QAM | L | Outer_Full | 18.55 | 19.31 | 30 |
| N70 | 15 | 5 | DFT-PI2BPSK | M | Inner_1RB_Left | 23.13 | 23.89 | 30 |
| N70 | 15 | 5 | DFT-PI2BPSK | M | Inner_1RB_Right | 23.09 | 23.85 | 30 |
| N70 | 15 | 5 | DFT-PI2BPSK | M | Outer_Full | 22.61 | 23.37 | 30 |
| N70 | 15 | 5 | DFT-QPSK | M | Inner_1RB_Left | 23.12 | 23.88 | 30 |
| N70 | 15 | 5 | DFT-QPSK | M | Inner_1RB_Right | 23.15 | 23.91 | 30 |
| N70 | 15 | 5 | DFT-QPSK | M | Outer_Full | 22.13 | 22.89 | 30 |
| N70 | 15 | 5 | DFT-16QAM | M | Inner_1RB_Left | 22.14 | 22.9 | 30 |
| N70 | 15 | 5 | DFT-16QAM | M | Inner_1RB_Right | 22.29 | 23.05 | 30 |
| N70 | 15 | 5 | DFT-16QAM | M | Outer_Full | 21.1 | 21.86 | 30 |
| N70 | 15 | 5 | DFT-64QAM | M | Inner_1RB_Left | 20.6 | 21.36 | 30 |
| N70 | 15 | 5 | DFT-64QAM | M | Inner_1RB_Right | 20.61 | 21.37 | 30 |
| N70 | 15 | 5 | DFT-64QAM | M | Outer_Full | 20.6 | 21.36 | 30 |
| N70 | 15 | 5 | DFT-256QAM | M | Inner_1RB_Left | 18.75 | 19.51 | 30 |



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|-----|----|----|-------------|---|-----------------|-------|-------|----|
| N70 | 15 | 5 | DFT-256QAM | M | Inner_1RB_Right | 18.69 | 19.45 | 30 |
| N70 | 15 | 5 | DFT-256QAM | M | Outer_Full | 18.57 | 19.33 | 30 |
| N70 | 15 | 5 | DFT-PI2BPSK | H | Inner_1RB_Left | 23.12 | 23.88 | 30 |
| N70 | 15 | 5 | DFT-PI2BPSK | H | Inner_1RB_Right | 23.13 | 23.89 | 30 |
| N70 | 15 | 5 | DFT-PI2BPSK | H | Outer_Full | 22.65 | 23.41 | 30 |
| N70 | 15 | 5 | DFT-QPSK | H | Inner_1RB_Left | 23.13 | 23.89 | 30 |
| N70 | 15 | 5 | DFT-QPSK | H | Inner_1RB_Right | 23.08 | 23.84 | 30 |
| N70 | 15 | 5 | DFT-QPSK | H | Outer_Full | 22.17 | 22.93 | 30 |
| N70 | 15 | 5 | DFT-16QAM | H | Inner_1RB_Left | 22.24 | 23 | 30 |
| N70 | 15 | 5 | DFT-16QAM | H | Inner_1RB_Right | 22.25 | 23.01 | 30 |
| N70 | 15 | 5 | DFT-16QAM | H | Outer_Full | 21.17 | 21.93 | 30 |
| N70 | 15 | 5 | DFT-64QAM | H | Inner_1RB_Left | 20.64 | 21.4 | 30 |
| N70 | 15 | 5 | DFT-64QAM | H | Inner_1RB_Right | 20.72 | 21.48 | 30 |
| N70 | 15 | 5 | DFT-64QAM | H | Outer_Full | 20.65 | 21.41 | 30 |
| N70 | 15 | 5 | DFT-256QAM | H | Inner_1RB_Left | 18.59 | 19.35 | 30 |
| N70 | 15 | 5 | DFT-256QAM | H | Inner_1RB_Right | 18.78 | 19.54 | 30 |
| N70 | 15 | 5 | DFT-256QAM | H | Outer_Full | 18.66 | 19.42 | 30 |
| N70 | 15 | 10 | DFT-PI2BPSK | L | Inner_1RB_Left | 23.03 | 23.79 | 30 |
| N70 | 15 | 10 | DFT-PI2BPSK | L | Inner_1RB_Right | 23.07 | 23.83 | 30 |
| N70 | 15 | 10 | DFT-PI2BPSK | L | Outer_Full | 22.66 | 23.42 | 30 |
| N70 | 15 | 10 | DFT-QPSK | L | Inner_1RB_Left | 23.05 | 23.81 | 30 |
| N70 | 15 | 10 | DFT-QPSK | L | Inner_1RB_Right | 23.09 | 23.85 | 30 |
| N70 | 15 | 10 | DFT-QPSK | L | Outer_Full | 22.1 | 22.86 | 30 |
| N70 | 15 | 10 | DFT-16QAM | L | Inner_1RB_Left | 22.29 | 23.05 | 30 |
| N70 | 15 | 10 | DFT-16QAM | L | Inner_1RB_Right | 22.19 | 22.95 | 30 |
| N70 | 15 | 10 | DFT-16QAM | L | Outer_Full | 21.12 | 21.88 | 30 |
| N70 | 15 | 10 | DFT-64QAM | L | Inner_1RB_Left | 20.68 | 21.44 | 30 |
| N70 | 15 | 10 | DFT-64QAM | L | Inner_1RB_Right | 20.53 | 21.29 | 30 |
| N70 | 15 | 10 | DFT-64QAM | L | Outer_Full | 20.66 | 21.42 | 30 |
| N70 | 15 | 10 | DFT-256QAM | L | Inner_1RB_Left | 18.57 | 19.33 | 30 |
| N70 | 15 | 10 | DFT-256QAM | L | Inner_1RB_Right | 18.57 | 19.33 | 30 |
| N70 | 15 | 10 | DFT-256QAM | L | Outer_Full | 18.62 | 19.38 | 30 |
| N70 | 15 | 10 | DFT-PI2BPSK | M | Inner_1RB_Left | 23.07 | 23.83 | 30 |
| N70 | 15 | 10 | DFT-PI2BPSK | M | Inner_1RB_Right | 23.08 | 23.84 | 30 |



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|-----|----|----|-------------|---|-----------------|-------|-------|----|
| N70 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | 22.7 | 23.46 | 30 |
| N70 | 15 | 10 | DFT-QPSK | M | Inner_1RB_Left | 23.06 | 23.82 | 30 |
| N70 | 15 | 10 | DFT-QPSK | M | Inner_1RB_Right | 23.14 | 23.9 | 30 |
| N70 | 15 | 10 | DFT-QPSK | M | Outer_Full | 22.13 | 22.89 | 30 |
| N70 | 15 | 10 | DFT-16QAM | M | Inner_1RB_Left | 22.21 | 22.97 | 30 |
| N70 | 15 | 10 | DFT-16QAM | M | Inner_1RB_Right | 22.12 | 22.88 | 30 |
| N70 | 15 | 10 | DFT-16QAM | M | Outer_Full | 21.07 | 21.83 | 30 |
| N70 | 15 | 10 | DFT-64QAM | M | Inner_1RB_Left | 20.73 | 21.49 | 30 |
| N70 | 15 | 10 | DFT-64QAM | M | Inner_1RB_Right | 20.64 | 21.4 | 30 |
| N70 | 15 | 10 | DFT-64QAM | M | Outer_Full | 20.52 | 21.28 | 30 |
| N70 | 15 | 10 | DFT-256QAM | M | Inner_1RB_Left | 18.73 | 19.49 | 30 |
| N70 | 15 | 10 | DFT-256QAM | M | Inner_1RB_Right | 18.72 | 19.48 | 30 |
| N70 | 15 | 10 | DFT-256QAM | M | Outer_Full | 18.69 | 19.45 | 30 |
| N70 | 15 | 10 | DFT-PI2BPSK | H | Inner_1RB_Left | 23.11 | 23.87 | 30 |
| N70 | 15 | 10 | DFT-PI2BPSK | H | Inner_1RB_Right | 23.09 | 23.85 | 30 |
| N70 | 15 | 10 | DFT-PI2BPSK | H | Outer_Full | 22.67 | 23.43 | 30 |
| N70 | 15 | 10 | DFT-QPSK | H | Inner_1RB_Left | 23.11 | 23.87 | 30 |
| N70 | 15 | 10 | DFT-QPSK | H | Inner_1RB_Right | 23.14 | 23.9 | 30 |
| N70 | 15 | 10 | DFT-QPSK | H | Outer_Full | 22.13 | 22.89 | 30 |
| N70 | 15 | 10 | DFT-16QAM | H | Inner_1RB_Left | 22.08 | 22.84 | 30 |
| N70 | 15 | 10 | DFT-16QAM | H | Inner_1RB_Right | 22.16 | 22.92 | 30 |
| N70 | 15 | 10 | DFT-16QAM | H | Outer_Full | 21.11 | 21.87 | 30 |
| N70 | 15 | 10 | DFT-64QAM | H | Inner_1RB_Left | 20.57 | 21.33 | 30 |
| N70 | 15 | 10 | DFT-64QAM | H | Inner_1RB_Right | 20.7 | 21.46 | 30 |
| N70 | 15 | 10 | DFT-64QAM | H | Outer_Full | 20.62 | 21.38 | 30 |
| N70 | 15 | 10 | DFT-256QAM | H | Inner_1RB_Left | 18.64 | 19.4 | 30 |
| N70 | 15 | 10 | DFT-256QAM | H | Inner_1RB_Right | 18.61 | 19.37 | 30 |
| N70 | 15 | 10 | DFT-256QAM | H | Outer_Full | 18.63 | 19.39 | 30 |
| N70 | 15 | 15 | DFT-PI2BPSK | L | Inner_1RB_Left | 23.23 | 23.99 | 30 |
| N70 | 15 | 15 | DFT-PI2BPSK | L | Inner_1RB_Right | 23.22 | 23.98 | 30 |
| N70 | 15 | 15 | DFT-PI2BPSK | L | Outer_Full | 22.77 | 23.53 | 30 |
| N70 | 15 | 15 | DFT-QPSK | L | Inner_1RB_Left | 23.21 | 23.97 | 30 |
| N70 | 15 | 15 | DFT-QPSK | L | Inner_1RB_Right | 23.23 | 23.99 | 30 |
| N70 | 15 | 15 | DFT-QPSK | L | Outer_Full | 22.25 | 23.01 | 30 |



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|-----|----|----|-------------|---|-----------------|-------|-------|----|
| N70 | 15 | 15 | DFT-16QAM | L | Inner_1RB_Left | 22.36 | 23.12 | 30 |
| N70 | 15 | 15 | DFT-16QAM | L | Inner_1RB_Right | 22.32 | 23.08 | 30 |
| N70 | 15 | 15 | DFT-16QAM | L | Outer_Full | 21.25 | 22.01 | 30 |
| N70 | 15 | 15 | DFT-64QAM | L | Inner_1RB_Left | 20.84 | 21.6 | 30 |
| N70 | 15 | 15 | DFT-64QAM | L | Inner_1RB_Right | 20.76 | 21.52 | 30 |
| N70 | 15 | 15 | DFT-64QAM | L | Outer_Full | 20.77 | 21.53 | 30 |
| N70 | 15 | 15 | DFT-256QAM | L | Inner_1RB_Left | 18.63 | 19.39 | 30 |
| N70 | 15 | 15 | DFT-256QAM | L | Inner_1RB_Right | 18.84 | 19.6 | 30 |
| N70 | 15 | 15 | DFT-256QAM | L | Outer_Full | 18.75 | 19.51 | 30 |
| N70 | 15 | 15 | DFT-PI2BPSK | M | Inner_1RB_Left | 23.22 | 23.98 | 30 |
| N70 | 15 | 15 | DFT-PI2BPSK | M | Inner_1RB_Right | 23.22 | 23.98 | 30 |
| N70 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | 22.85 | 23.61 | 30 |
| N70 | 15 | 15 | DFT-QPSK | M | Inner_1RB_Left | 23.21 | 23.97 | 30 |
| N70 | 15 | 15 | DFT-QPSK | M | Inner_1RB_Right | 23.26 | 24.02 | 30 |
| N70 | 15 | 15 | DFT-QPSK | M | Outer_Full | 22.28 | 23.04 | 30 |
| N70 | 15 | 15 | DFT-16QAM | M | Inner_1RB_Left | 22.32 | 23.08 | 30 |
| N70 | 15 | 15 | DFT-16QAM | M | Inner_1RB_Right | 22.32 | 23.08 | 30 |
| N70 | 15 | 15 | DFT-16QAM | M | Outer_Full | 21.25 | 22.01 | 30 |
| N70 | 15 | 15 | DFT-64QAM | M | Inner_1RB_Left | 20.76 | 21.52 | 30 |
| N70 | 15 | 15 | DFT-64QAM | M | Inner_1RB_Right | 20.87 | 21.63 | 30 |
| N70 | 15 | 15 | DFT-64QAM | M | Outer_Full | 20.76 | 21.52 | 30 |
| N70 | 15 | 15 | DFT-256QAM | M | Inner_1RB_Left | 18.8 | 19.56 | 30 |
| N70 | 15 | 15 | DFT-256QAM | M | Inner_1RB_Right | 18.68 | 19.44 | 30 |
| N70 | 15 | 15 | DFT-256QAM | M | Outer_Full | 18.74 | 19.5 | 30 |
| N70 | 15 | 15 | DFT-PI2BPSK | H | Inner_1RB_Left | 23.24 | 24 | 30 |
| N70 | 15 | 15 | DFT-PI2BPSK | H | Inner_1RB_Right | 21.67 | 22.43 | 30 |
| N70 | 15 | 15 | DFT-PI2BPSK | H | Outer_Full | 22.36 | 23.12 | 30 |
| N70 | 15 | 15 | DFT-QPSK | H | Inner_1RB_Left | 23.24 | 24 | 30 |
| N70 | 15 | 15 | DFT-QPSK | H | Inner_1RB_Right | 23.28 | 24.04 | 30 |
| N70 | 15 | 15 | DFT-QPSK | H | Outer_Full | 22.28 | 23.04 | 30 |
| N70 | 15 | 15 | DFT-16QAM | H | Inner_1RB_Left | 22.33 | 23.09 | 30 |
| N70 | 15 | 15 | DFT-16QAM | H | Inner_1RB_Right | 22.25 | 23.01 | 30 |
| N70 | 15 | 15 | DFT-16QAM | H | Outer_Full | 21.26 | 22.02 | 30 |
| N70 | 15 | 15 | DFT-64QAM | H | Inner_1RB_Left | 20.81 | 21.57 | 30 |



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|-----|----|----|------------|---|-----------------|-------|-------|----|
| N70 | 15 | 15 | DFT-64QAM | H | Inner_1RB_Right | 20.67 | 21.43 | 30 |
| N70 | 15 | 15 | DFT-64QAM | H | Outer_Full | 20.75 | 21.51 | 30 |
| N70 | 15 | 15 | DFT-256QAM | H | Inner_1RB_Left | 18.77 | 19.53 | 30 |
| N70 | 15 | 15 | DFT-256QAM | H | Inner_1RB_Right | 18.79 | 19.55 | 30 |
| N70 | 15 | 15 | DFT-256QAM | H | Outer_Full | 18.76 | 19.52 | 30 |



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Peak-to-Average Ratio for SA

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 | 8.99 | ≤13 | PASS |
| N70 | 15 | 15 | CP-256QAM | L | Outer_Full | 100% | 0.00 | 9.53 | ≤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 | 9.56 | ≤13 | PASS |
| N70 | 15 | 15 | DFT-256QAM | H | Outer_Full | 100% | 0.00 | 9.10 | ≤13 | PASS |
| N70 | 15 | 15 | CP-256QAM | H | Outer_Full | 100% | 0.00 | 9.57 | ≤13 | PASS |



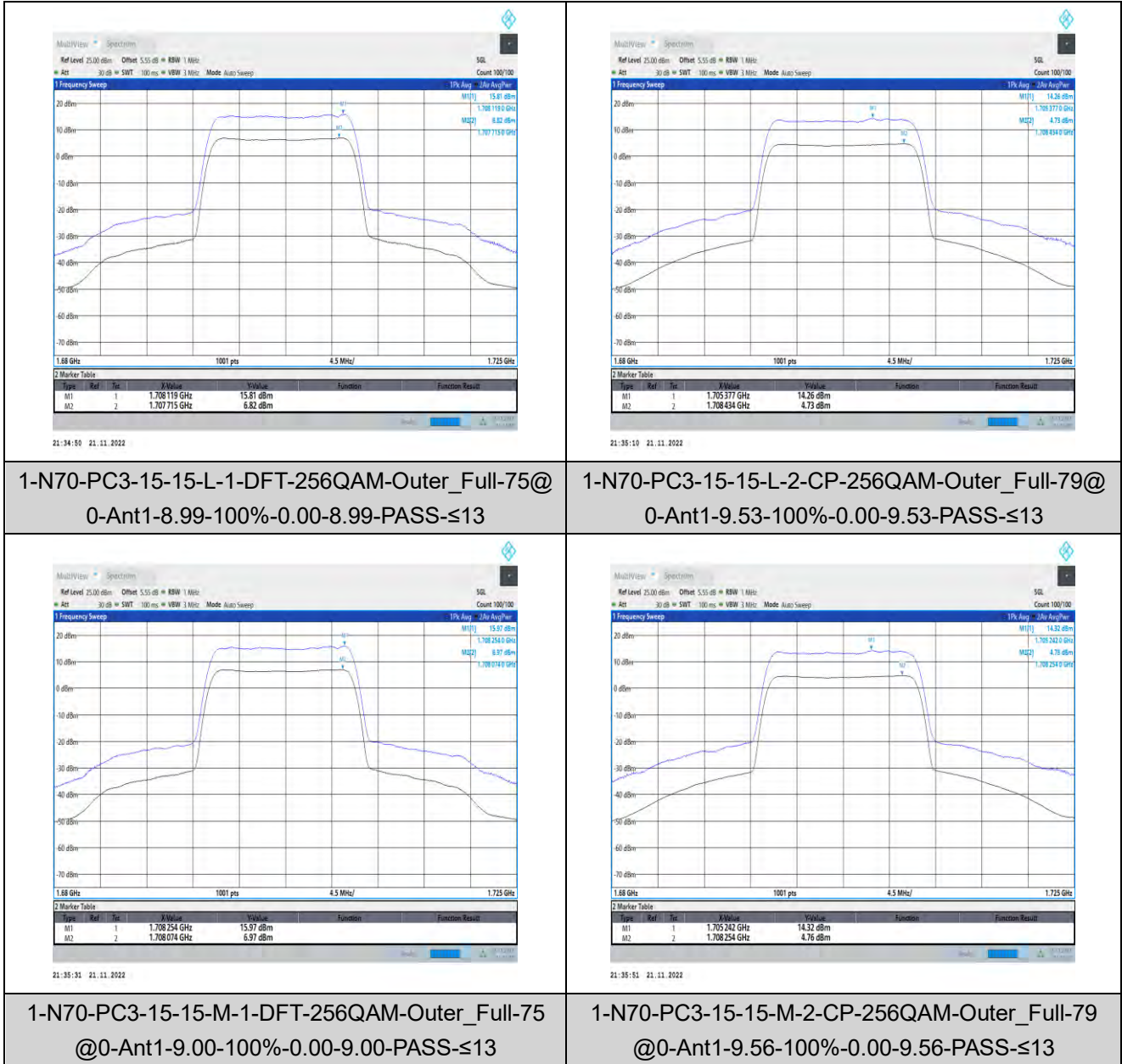
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Test Graphs



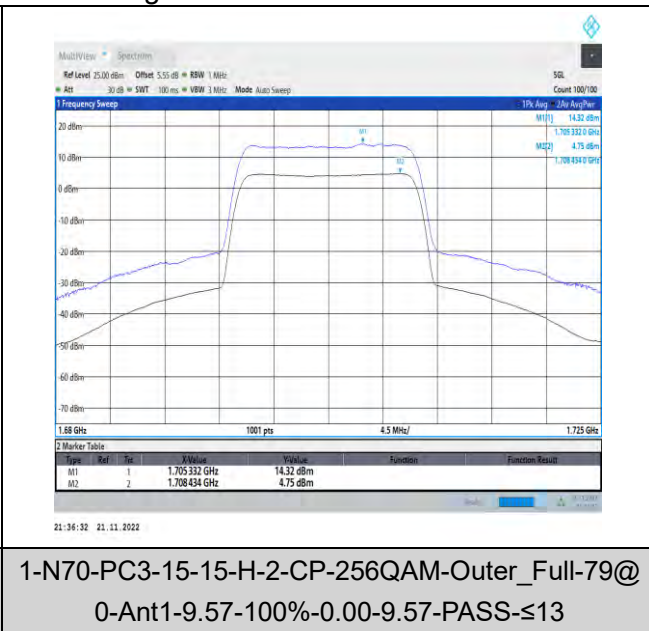
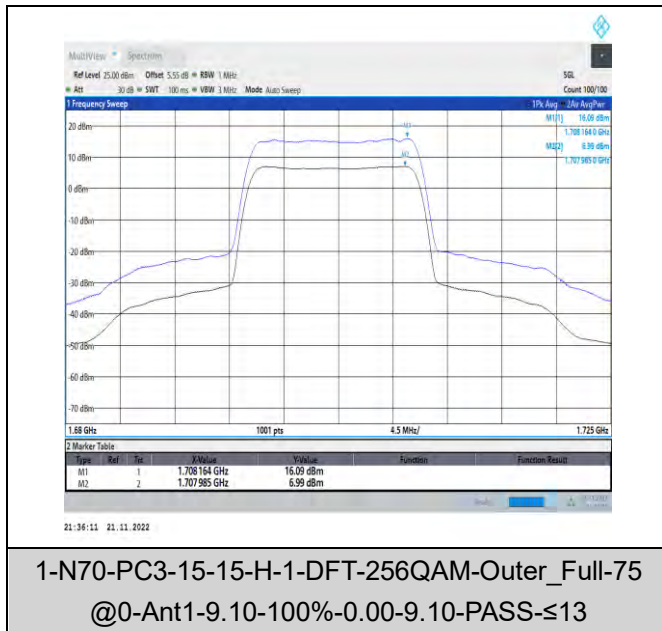
1-N70-PC3-15-15-L-1-DFT-256QAM-Outer_Full-75@
 0-Ant1-8.99-100%-0.00-8.99-PASS-≤13

1-N70-PC3-15-15-L-2-CP-256QAM-Outer_Full-79@
 0-Ant1-9.53-100%-0.00-9.53-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-Ant1-9.56-100%-0.00-9.56-PASS-≤13





1-N70-PC3-15-15-H-1-DFT-256QAM-Outer_Full-75 @0-Ant1-9.10-100%-0.00-9.10-PASS-≤13

1-N70-PC3-15-15-H-2-CP-256QAM-Outer_Full-79@ 0-Ant1-9.57-100%-0.00-9.57-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 |



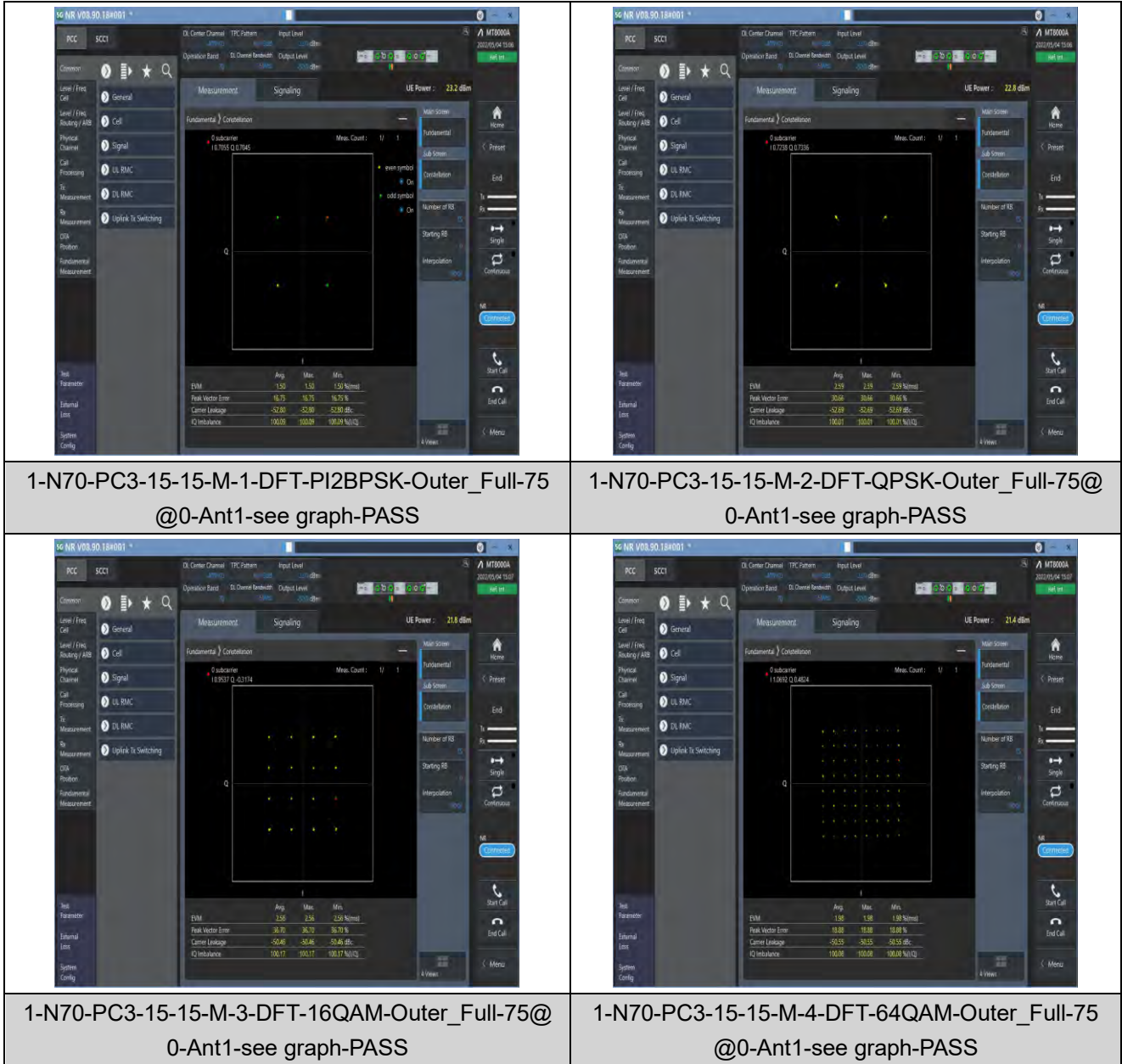
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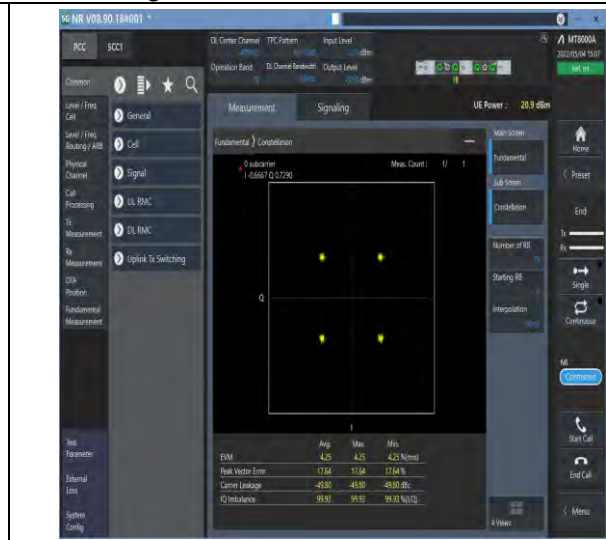
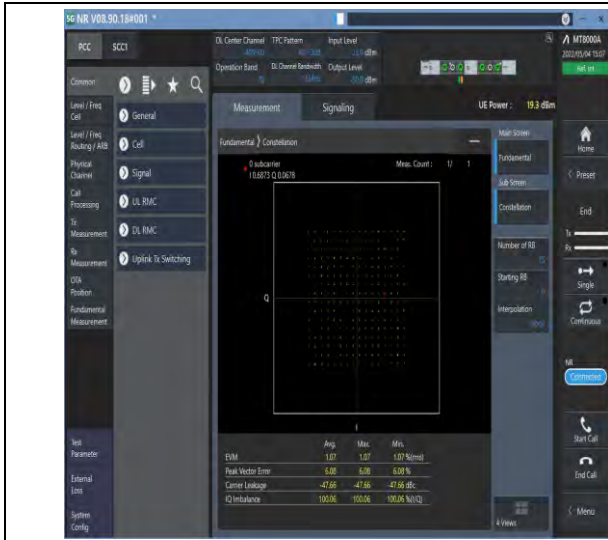
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Test Graphs

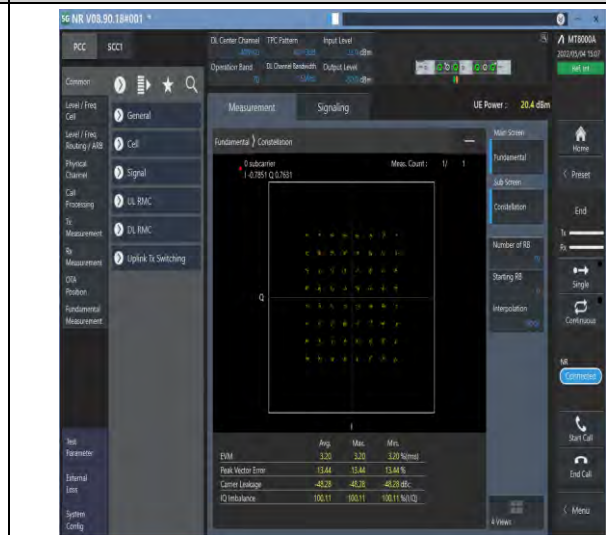
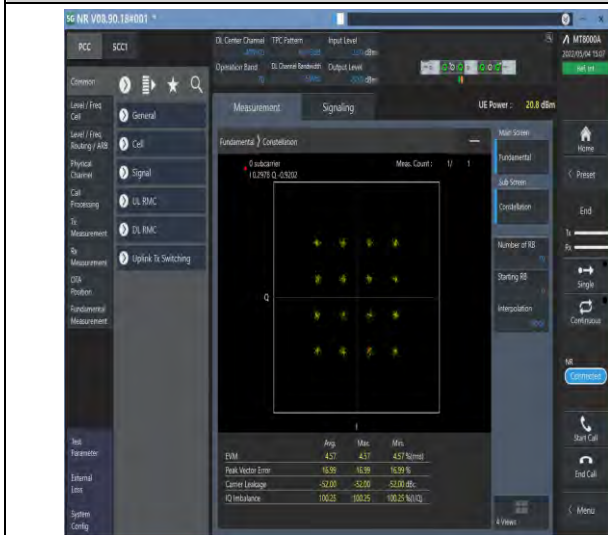


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1-N70-PC3-15-15-M-5-DFT-256QAM-Outer_Full-75 @0-Ant1-see graph-PASS

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

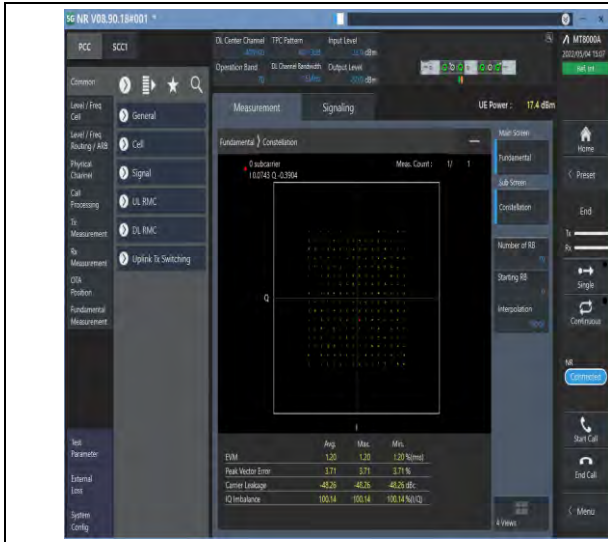


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1-N70-PC3-15-15-M-9-CP-256QAM-Outer_Full-79@
0-Ant1-see graph-PASS



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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 | 4.481 | 4.980 | PASS |
| N70 | 15 | 5 | DFT-PI2BPSK | L | Outer_Full | 4.481 | 4.990 | PASS |
| N70 | 15 | 5 | DFT-16QAM | L | Outer_Full | 4.482 | 5.060 | PASS |
| N70 | 15 | 5 | DFT-64QAM | L | Outer_Full | 4.484 | 5.150 | PASS |
| N70 | 15 | 5 | DFT-256QAM | L | Outer_Full | 4.496 | 5.000 | PASS |
| N70 | 15 | 5 | CP-QPSK | L | Outer_Full | 4.472 | 5.110 | PASS |
| N70 | 15 | 5 | CP-16QAM | L | Outer_Full | 4.484 | 5.020 | PASS |
| N70 | 15 | 5 | CP-64QAM | L | Outer_Full | 4.478 | 5.100 | PASS |
| N70 | 15 | 5 | CP-256QAM | L | Outer_Full | 4.474 | 4.900 | PASS |
| N70 | 15 | 5 | DFT-QPSK | M | Outer_Full | 4.514 | 5.030 | PASS |
| N70 | 15 | 5 | DFT-PI2BPSK | M | Outer_Full | 4.479 | 5.040 | PASS |
| N70 | 15 | 5 | DFT-16QAM | M | Outer_Full | 4.49 | 5.000 | PASS |
| N70 | 15 | 5 | DFT-64QAM | M | Outer_Full | 4.501 | 5.140 | PASS |
| N70 | 15 | 5 | DFT-256QAM | M | Outer_Full | 4.487 | 5.000 | PASS |
| N70 | 15 | 5 | CP-QPSK | M | Outer_Full | 4.482 | 5.070 | PASS |
| N70 | 15 | 5 | CP-16QAM | M | Outer_Full | 4.482 | 5.120 | PASS |
| N70 | 15 | 5 | CP-64QAM | M | Outer_Full | 4.473 | 5.120 | PASS |
| N70 | 15 | 5 | CP-256QAM | M | Outer_Full | 4.493 | 5.020 | PASS |
| N70 | 15 | 5 | DFT-QPSK | H | Outer_Full | 4.477 | 5.000 | PASS |
| N70 | 15 | 5 | DFT-PI2BPSK | H | Outer_Full | 4.474 | 5.080 | PASS |
| N70 | 15 | 5 | DFT-16QAM | H | Outer_Full | 4.479 | 5.060 | PASS |
| N70 | 15 | 5 | DFT-64QAM | H | Outer_Full | 4.484 | 5.000 | PASS |
| N70 | 15 | 5 | DFT-256QAM | H | Outer_Full | 4.484 | 5.010 | PASS |
| N70 | 15 | 5 | CP-QPSK | H | Outer_Full | 4.469 | 5.100 | PASS |
| N70 | 15 | 5 | CP-16QAM | H | Outer_Full | 4.482 | 5.100 | PASS |
| N70 | 15 | 5 | CP-64QAM | H | Outer_Full | 4.469 | 5.040 | PASS |
| N70 | 15 | 5 | CP-256QAM | H | Outer_Full | 4.465 | 5.050 | PASS |
| N70 | 15 | 10 | DFT-QPSK | L | Outer_Full | 8.925 | 9.700 | PASS |
| N70 | 15 | 10 | DFT-PI2BPSK | L | Outer_Full | 8.939 | 9.600 | PASS |
| N70 | 15 | 10 | DFT-16QAM | L | Outer_Full | 9.284 | 10.140 | PASS |
| N70 | 15 | 10 | DFT-64QAM | L | Outer_Full | 8.923 | 9.700 | PASS |
| N70 | 15 | 10 | DFT-256QAM | L | Outer_Full | 8.943 | 9.760 | PASS |



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|-----|----|----|-------------|---|------------|--------|--------|------|
| N70 | 15 | 10 | CP-QPSK | L | Outer_Full | 9.284 | 10.140 | PASS |
| N70 | 15 | 10 | CP-16QAM | L | Outer_Full | 9.28 | 10.080 | PASS |
| N70 | 15 | 10 | CP-64QAM | L | Outer_Full | 9.301 | 10.000 | PASS |
| N70 | 15 | 10 | CP-256QAM | L | Outer_Full | 9.317 | 10.120 | PASS |
| N70 | 15 | 10 | DFT-QPSK | M | Outer_Full | 8.947 | 9.760 | PASS |
| N70 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | 8.938 | 9.660 | PASS |
| N70 | 15 | 10 | DFT-16QAM | M | Outer_Full | 8.929 | 9.640 | PASS |
| N70 | 15 | 10 | DFT-64QAM | M | Outer_Full | 9.3 | 9.980 | PASS |
| N70 | 15 | 10 | DFT-256QAM | M | Outer_Full | 8.935 | 9.620 | PASS |
| N70 | 15 | 10 | CP-QPSK | M | Outer_Full | 9.297 | 10.180 | PASS |
| N70 | 15 | 10 | CP-16QAM | M | Outer_Full | 9.296 | 9.960 | PASS |
| N70 | 15 | 10 | CP-64QAM | M | Outer_Full | 9.3 | 9.980 | PASS |
| N70 | 15 | 10 | CP-256QAM | M | Outer_Full | 9.314 | 10.120 | PASS |
| N70 | 15 | 10 | DFT-QPSK | H | Outer_Full | 8.928 | 9.840 | PASS |
| N70 | 15 | 10 | DFT-PI2BPSK | H | Outer_Full | 8.914 | 9.540 | PASS |
| N70 | 15 | 10 | DFT-16QAM | H | Outer_Full | 8.947 | 9.500 | PASS |
| N70 | 15 | 10 | DFT-64QAM | H | Outer_Full | 8.936 | 9.600 | PASS |
| N70 | 15 | 10 | DFT-256QAM | H | Outer_Full | 8.942 | 9.580 | PASS |
| N70 | 15 | 10 | CP-QPSK | H | Outer_Full | 9.282 | 10.080 | PASS |
| N70 | 15 | 10 | CP-16QAM | H | Outer_Full | 9.262 | 10.140 | PASS |
| N70 | 15 | 10 | CP-64QAM | H | Outer_Full | 9.297 | 10.020 | PASS |
| N70 | 15 | 10 | CP-256QAM | H | Outer_Full | 9.3 | 10.100 | PASS |
| N70 | 15 | 15 | DFT-QPSK | L | Outer_Full | 13.449 | 14.340 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | L | Outer_Full | 13.452 | 14.460 | PASS |
| N70 | 15 | 15 | DFT-16QAM | L | Outer_Full | 13.459 | 14.280 | PASS |
| N70 | 15 | 15 | DFT-64QAM | L | Outer_Full | 13.417 | 14.490 | PASS |
| N70 | 15 | 15 | DFT-256QAM | L | Outer_Full | 13.428 | 14.400 | PASS |
| N70 | 15 | 15 | CP-QPSK | L | Outer_Full | 14.099 | 15.120 | PASS |
| N70 | 15 | 15 | CP-16QAM | L | Outer_Full | 14.114 | 15.060 | PASS |
| N70 | 15 | 15 | CP-64QAM | L | Outer_Full | 14.143 | 15.060 | PASS |
| N70 | 15 | 15 | CP-256QAM | L | Outer_Full | 14.123 | 15.090 | PASS |
| N70 | 15 | 15 | DFT-QPSK | M | Outer_Full | 13.49 | 14.190 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | 13.436 | 14.190 | PASS |
| N70 | 15 | 15 | DFT-16QAM | M | Outer_Full | 13.461 | 14.370 | PASS |
| N70 | 15 | 15 | DFT-64QAM | M | Outer_Full | 13.399 | 14.370 | PASS |
| N70 | 15 | 15 | DFT-256QAM | M | Outer_Full | 13.441 | 14.340 | PASS |
| N70 | 15 | 15 | CP-QPSK | M | Outer_Full | 14.121 | 14.940 | PASS |
| N70 | 15 | 15 | CP-16QAM | M | Outer_Full | 14.121 | 15.030 | PASS |



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|-----|----|----|-------------|---|------------|--------|--------|------|
| N70 | 15 | 15 | CP-64QAM | M | Outer_Full | 14.179 | 15.060 | PASS |
| N70 | 15 | 15 | CP-256QAM | M | Outer_Full | 14.127 | 15.030 | PASS |
| N70 | 15 | 15 | DFT-QPSK | H | Outer_Full | 13.456 | 14.220 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | H | Outer_Full | 13.434 | 14.280 | PASS |
| N70 | 15 | 15 | DFT-16QAM | H | Outer_Full | 13.474 | 14.490 | PASS |
| N70 | 15 | 15 | DFT-64QAM | H | Outer_Full | 13.449 | 14.400 | PASS |
| N70 | 15 | 15 | DFT-256QAM | H | Outer_Full | 13.441 | 14.400 | PASS |
| N70 | 15 | 15 | CP-QPSK | H | Outer_Full | 14.112 | 15.120 | PASS |
| N70 | 15 | 15 | CP-16QAM | H | Outer_Full | 14.111 | 15.150 | PASS |
| N70 | 15 | 15 | CP-64QAM | H | Outer_Full | 14.191 | 15.120 | PASS |
| N70 | 15 | 15 | CP-256QAM | H | Outer_Full | 14.129 | 15.000 | PASS |

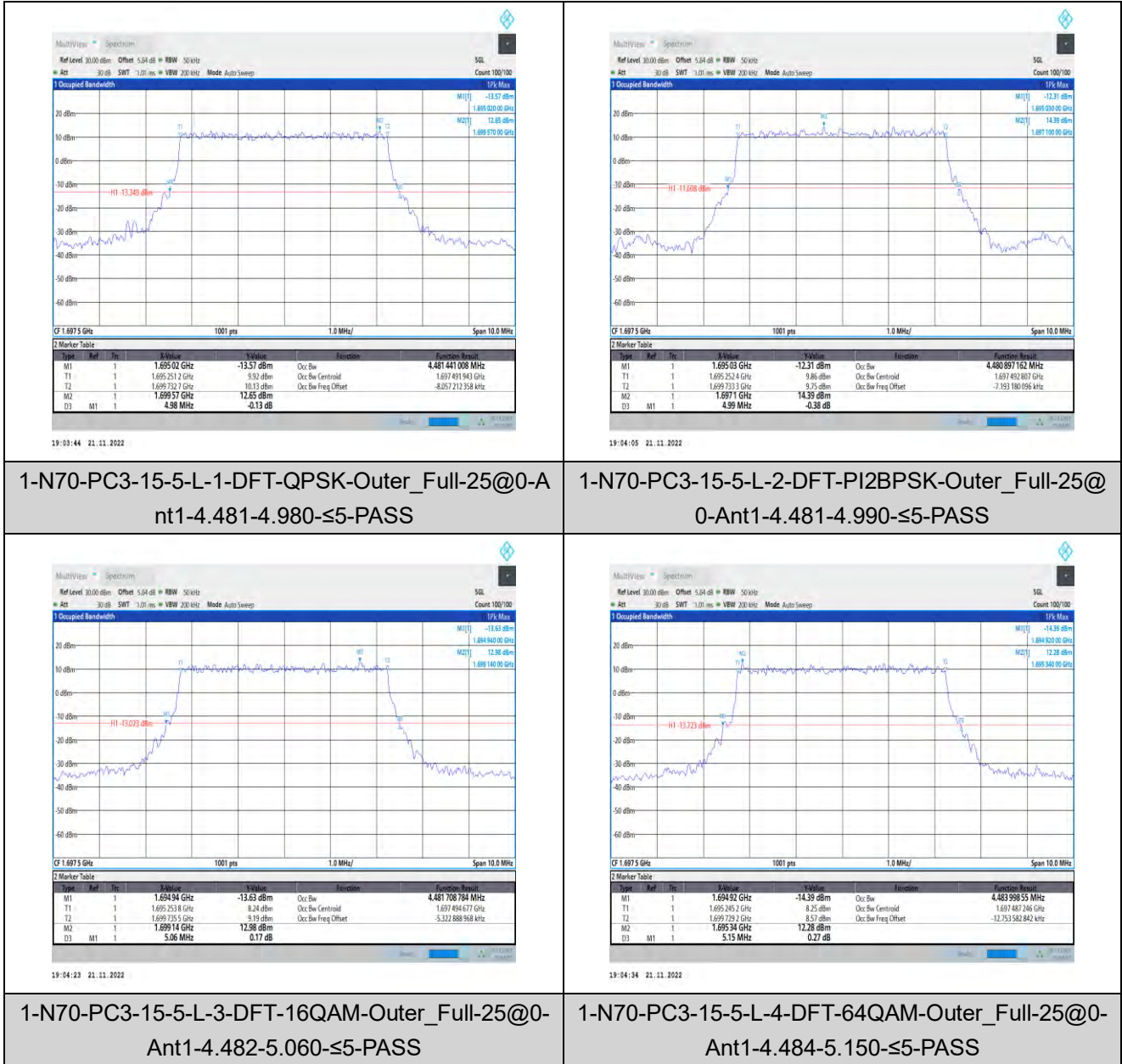


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Test Graphs





1-N70-PC3-15-5-L-5-DFT-256QAM-Outer_Full-25@0-Ant1-4.496-5.000-≤5-PASS

1-N70-PC3-15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant1-4.472-5.110-≤5-PASS



1-N70-PC3-15-5-L-7-CP-16QAM-Outer_Full-25@0-Ant1-4.484-5.020-≤5-PASS

1-N70-PC3-15-5-L-8-CP-64QAM-Outer_Full-25@0-Ant1-4.478-5.100-≤5-PASS



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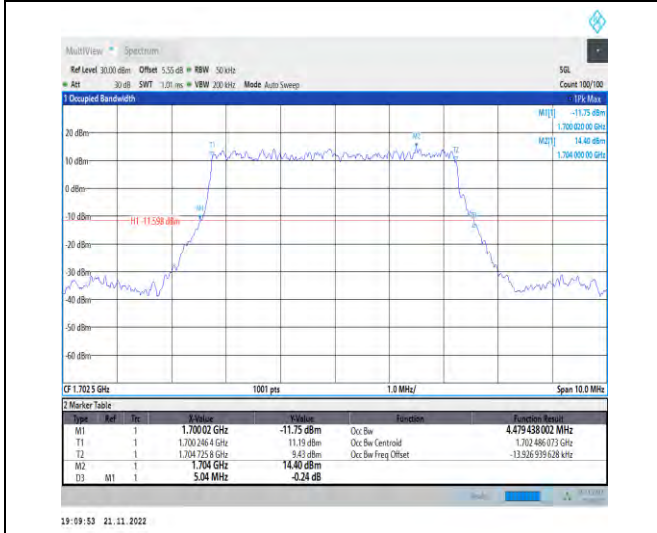
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1-N70-PC3-15-5-L-9-CP-256QAM-Outer_Full-25@0-Ant1-4.474-4.900-≤5-PASS



1-N70-PC3-15-5-M-1-DFT-QPSK-Outer_Full-25@0-Ant1-4.514-5.030-≤5-PASS



1-N70-PC3-15-5-M-2-DFT-PI2BPSK-Outer_Full-25@0-Ant1-4.479-5.040-≤5-PASS



1-N70-PC3-15-5-M-3-DFT-16QAM-Outer_Full-25@0-Ant1-4.49-5.000-≤5-PASS

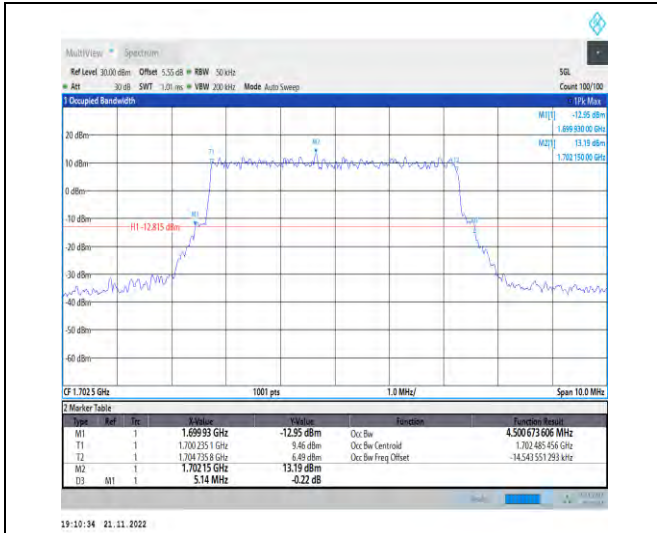


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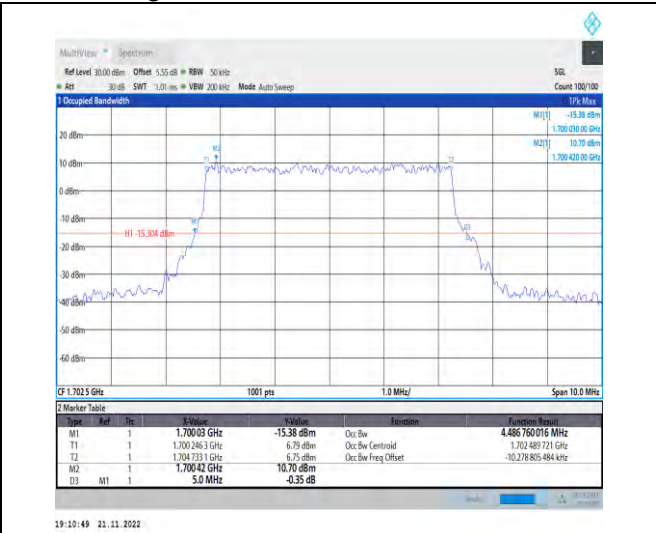
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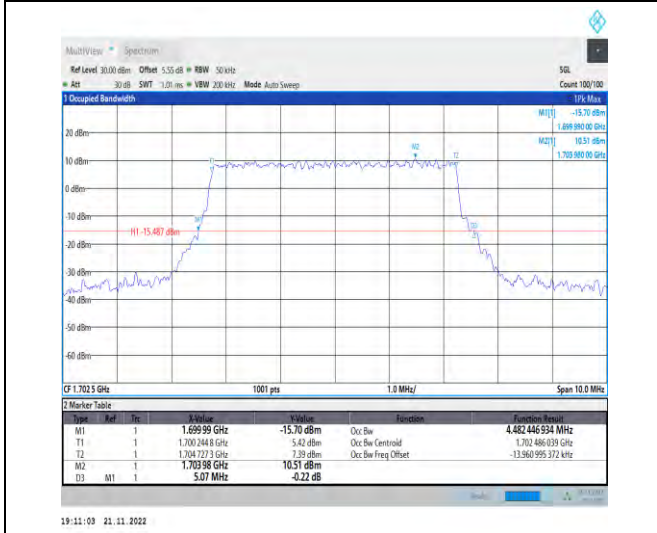
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1-N70-PC3-15-5-M-4-DFT-64QAM-Outer_Full-25@0-Ant1-4.501-5.140-≤5-PASS



1-N70-PC3-15-5-M-5-DFT-256QAM-Outer_Full-25@0-Ant1-4.487-5.000-≤5-PASS



1-N70-PC3-15-5-M-6-CP-QPSK-Outer_Full-25@0-Ant1-4.482-5.070-≤5-PASS



1-N70-PC3-15-5-M-7-CP-16QAM-Outer_Full-25@0-Ant1-4.482-5.120-≤5-PASS



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1-N70-PC3-15-5-M-8-CP-64QAM-Outer_Full-25@0-Ant1-4.473-5.120-≤5-PASS



1-N70-PC3-15-5-M-9-CP-256QAM-Outer_Full-25@0-Ant1-4.493-5.020-≤5-PASS



1-N70-PC3-15-5-H-1-DFT-QPSK-Outer_Full-25@0-Ant1-4.477-5.000-≤5-PASS



1-N70-PC3-15-5-H-2-DFT-PI2BPSK-Outer_Full-25@0-Ant1-4.474-5.080-≤5-PASS



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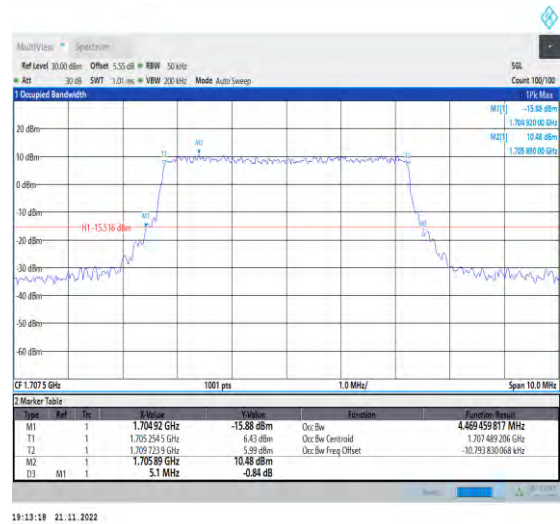
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1-N70-PC3-15-5-H-5-DFT-256QAM-Outer_Full-25@0-Ant1-4.484-5.010-≤5-PASS



1-N70-PC3-15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant1-4.469-5.100-≤5-PASS

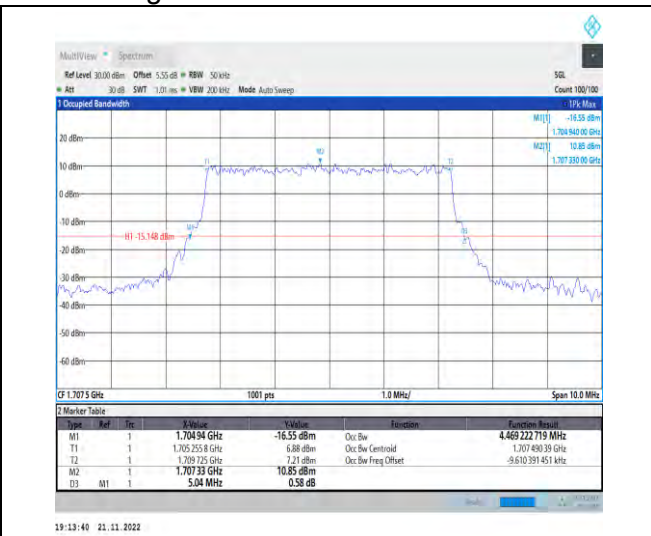


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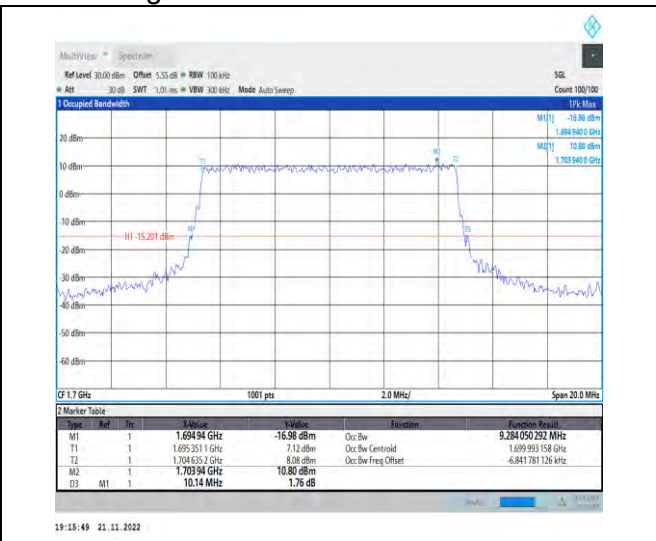
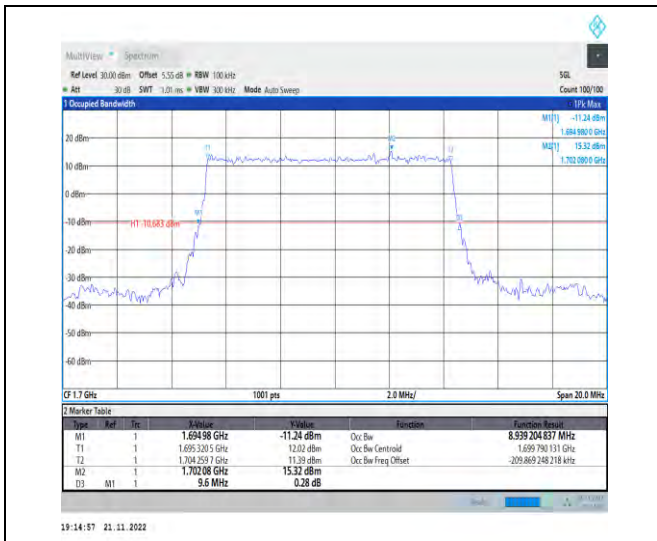
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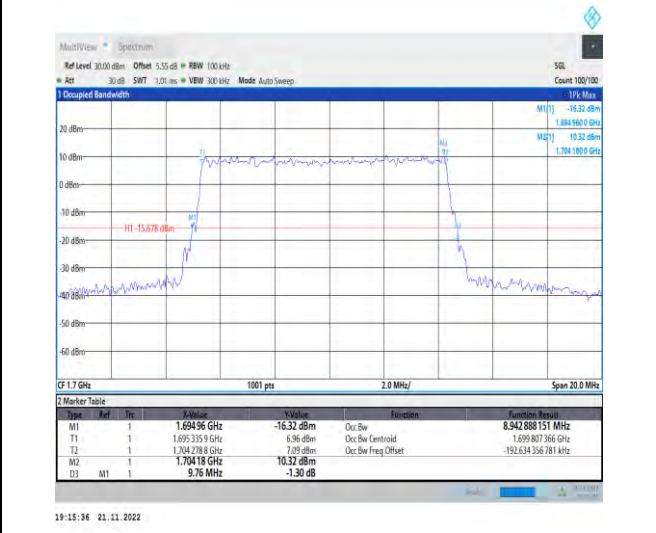
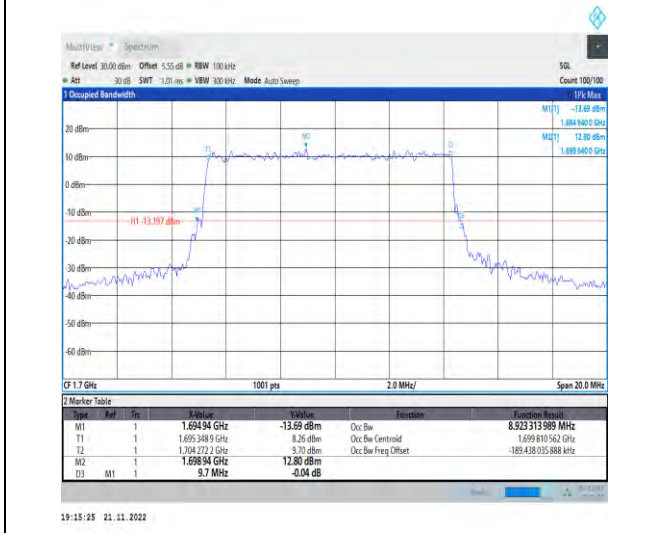
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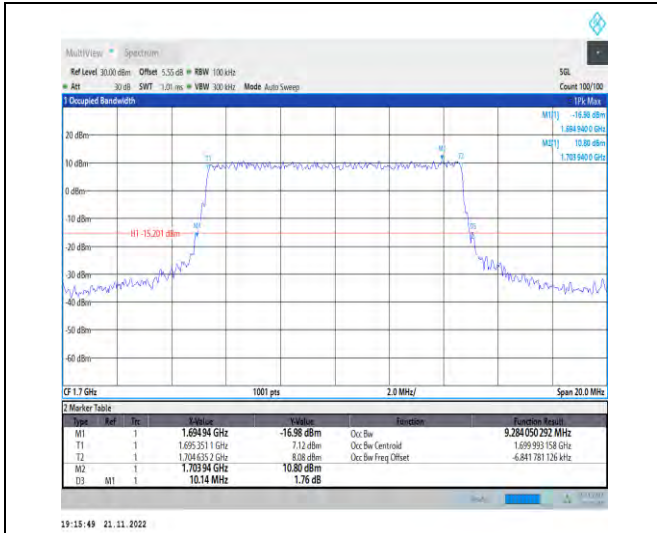
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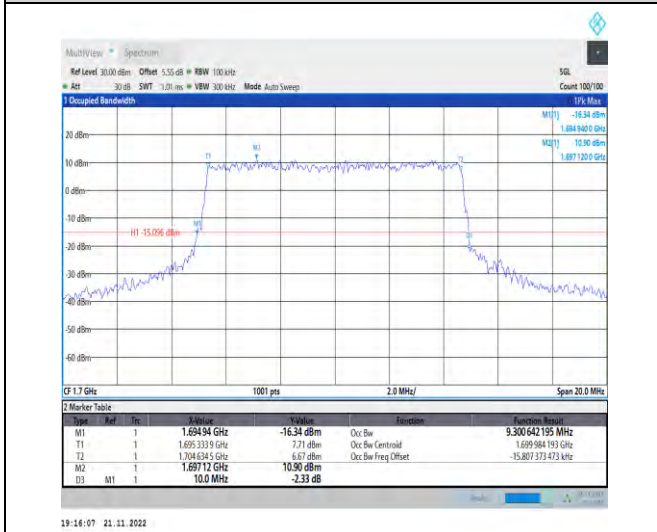




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1-N70-PC3-15-10-L-7-CP-16QAM-Outer_Full-52@0-
Ant1-9.28-10.080-≤10-PASS



1-N70-PC3-15-10-L-8-CP-64QAM-Outer_Full-52@0-
Ant1-9.301-10.000-≤10-PASS



1-N70-PC3-15-10-L-9-CP-256QAM-Outer_Full-52@0-
Ant1-9.317-10.120-≤10-PASS





1-N70-PC3-15-10-M-1-DFT-QPSK-Outer_Full-50@0-Ant1-8.947-9.760-≤10-PASS

1-N70-PC3-15-10-M-2-DFT-PI2BPSK-Outer_Full-50@0-Ant1-8.938-9.660-≤10-PASS



1-N70-PC3-15-10-M-3-DFT-16QAM-Outer_Full-50@0-Ant1-8.929-9.640-≤10-PASS

1-N70-PC3-15-10-M-4-DFT-64QAM-Outer_Full-50@0-Ant1-8.188-8.400-≤10-PASS



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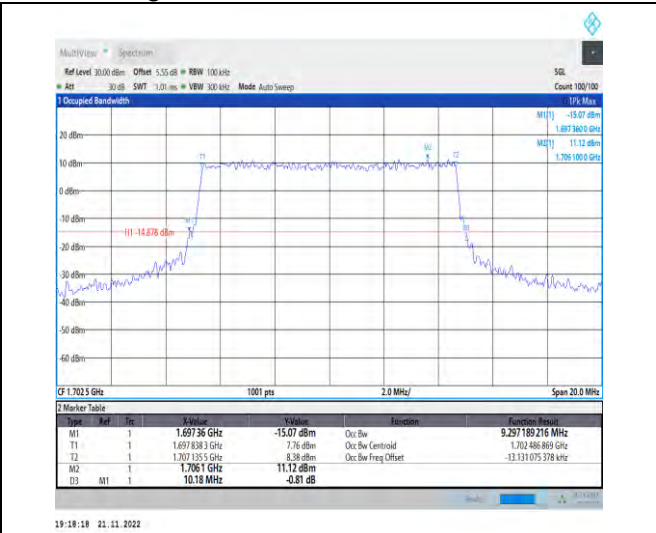
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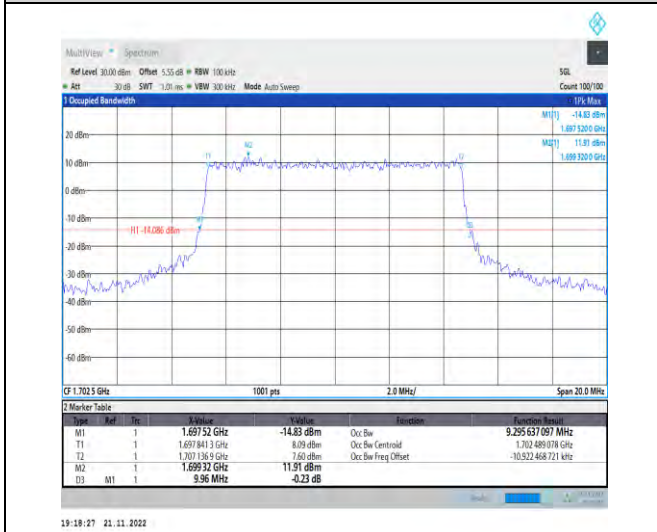
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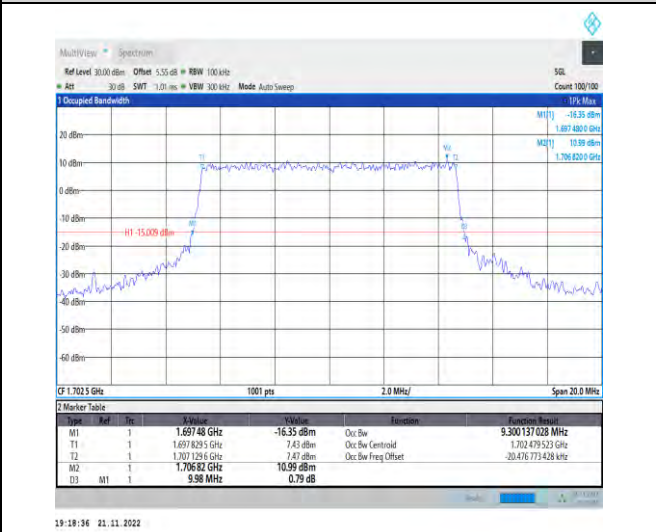
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1-N70-PC3-15-10-M-6-CP-QPSK-Outer_Full-52@0-Ant1-9.297-10.180-≤10-PASS



1-N70-PC3-15-10-M-7-CP-16QAM-Outer_Full-52@0-Ant1-9.296-9.960-≤10-PASS



1-N70-PC3-15-10-M-8-CP-64QAM-Outer_Full-52@0-Ant1-9.3-9.980-≤10-PASS

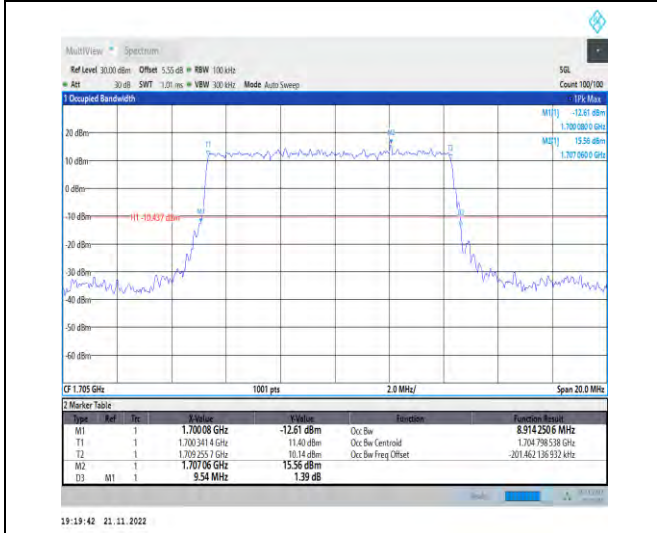




1-N70-PC3-15-10-M-9-CP-256QAM-Outer_Full-52@
0-Ant1-9.314-10.120-≤10-PASS



1-N70-PC3-15-10-H-1-DFT-QPSK-Outer_Full-50@
0-Ant1-8.928-9.840-≤10-PASS



1-N70-PC3-15-10-H-2-DFT-PI2BPSK-Outer_Full-50@
0-Ant1-8.914-9.540-≤10-PASS



1-N70-PC3-15-10-H-3-DFT-16QAM-Outer_Full-50@
0-Ant1-8.947-9.500-≤10-PASS



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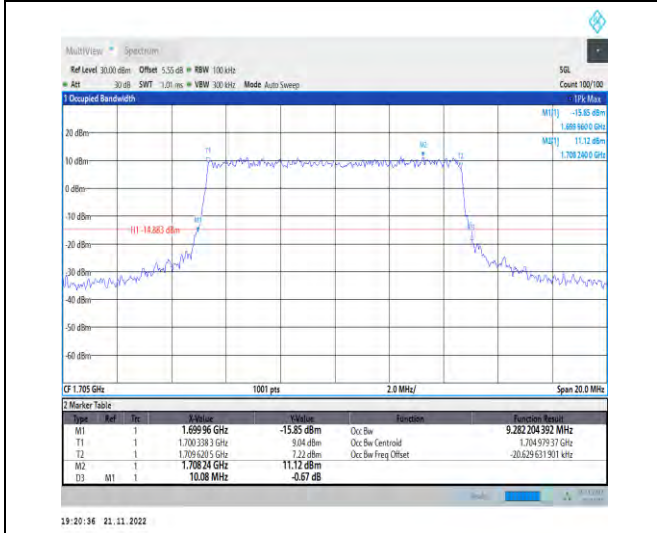
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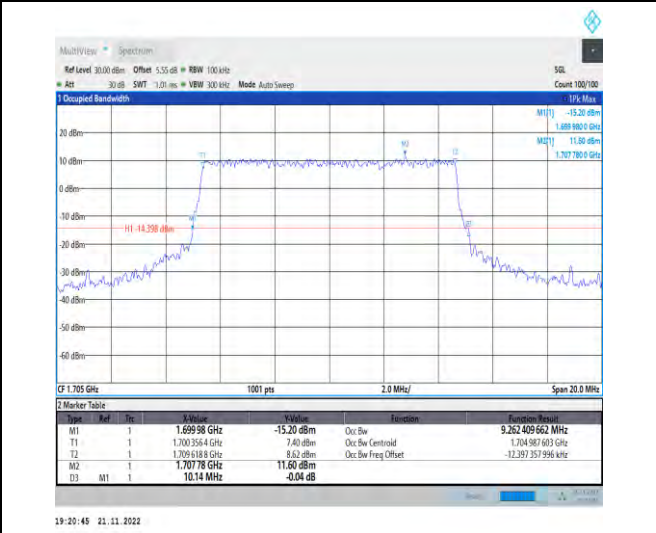
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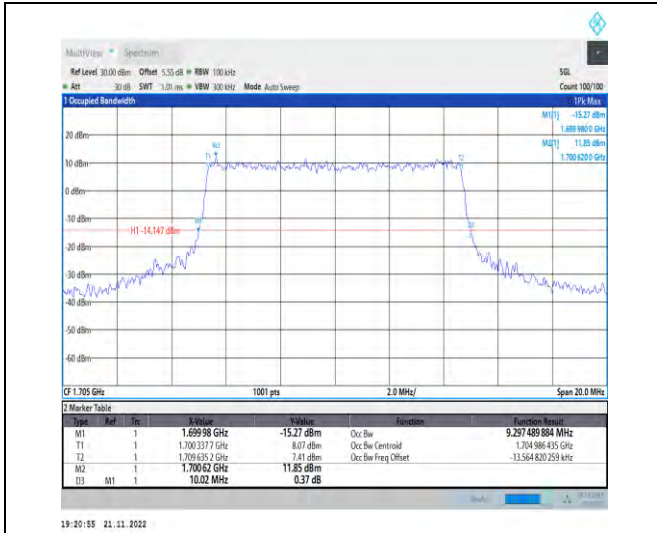


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1-N70-PC3-15-10-H-7-CP-16QAM-Outer_Full-52@0
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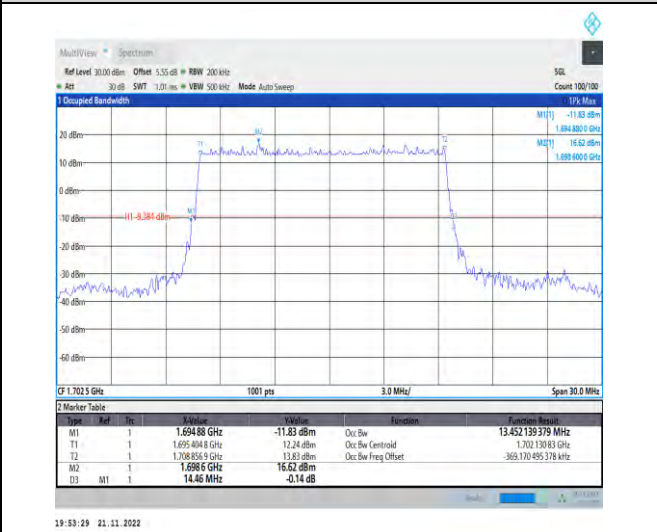
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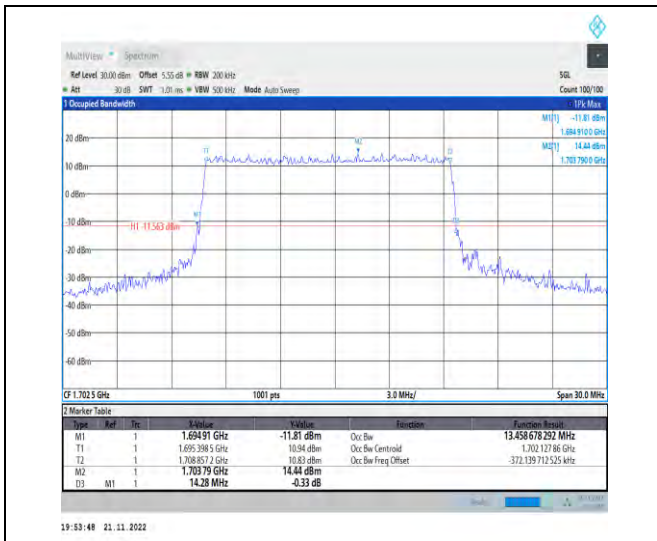


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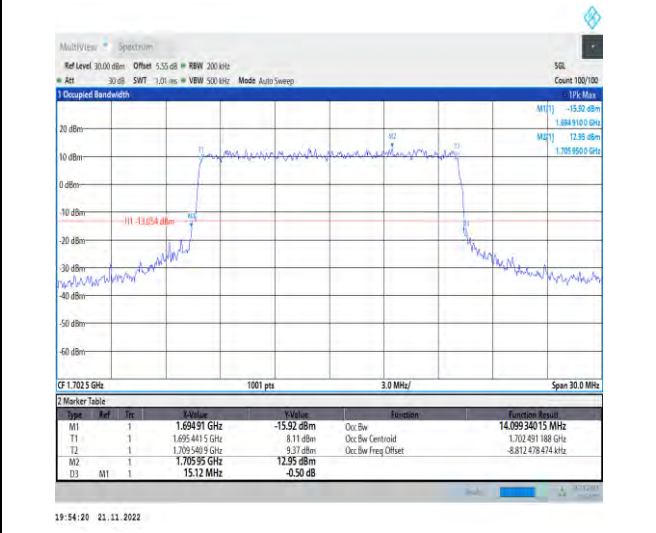
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@0-Ant1-13.452-14.460-≤15-PASS





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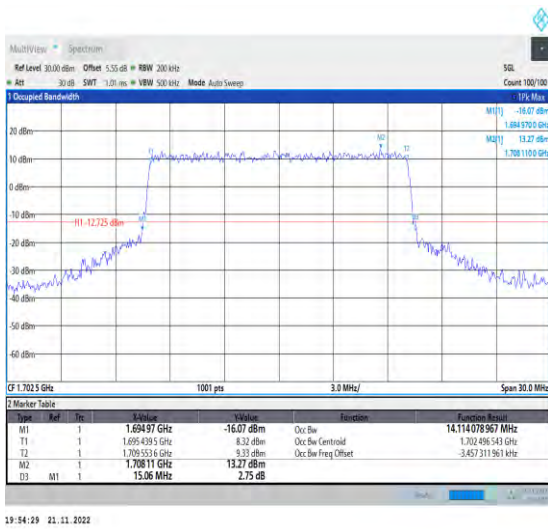
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1-N70-PC3-15-15-L-5-DFT-256QAM-Outer_Full-75@0-Ant1-13.428-14.400-≤15-PASS

1-N70-PC3-15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant1-14.099-15.120-≤15-PASS

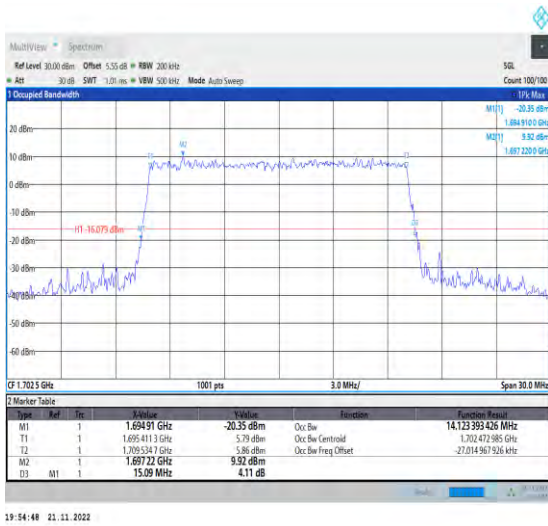




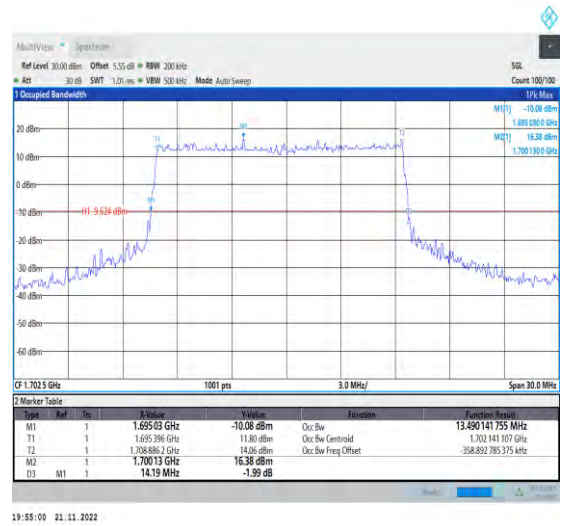
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1-N70-PC3-15-15-L-8-CP-64QAM-Outer_Full-79@0-Ant1-14.143-15.060-≤15-PASS



1-N70-PC3-15-15-L-9-CP-256QAM-Outer_Full-79@0-Ant1-14.123-15.090-≤15-PASS



1-N70-PC3-15-15-M-1-DFT-QPSK-Outer_Full-75@0-Ant1-13.49-14.190-≤15-PASS

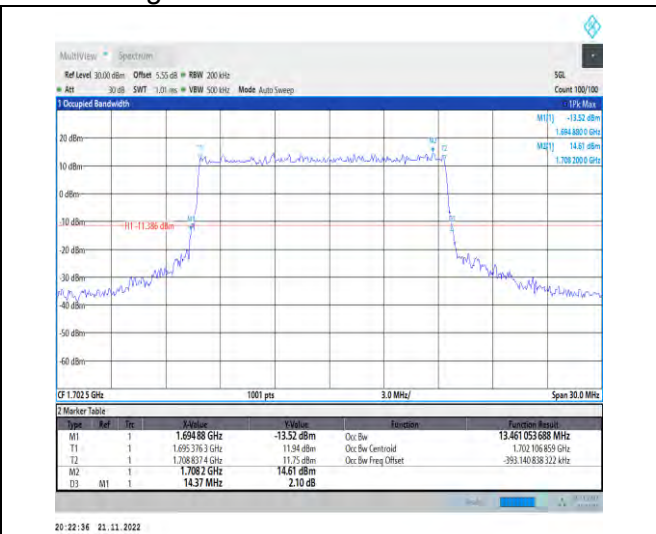


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1-N70-PC3-15-15-M-2-DFT-PI2BPSK-Outer_Full-75 @0-Ant1-13.436-14.190-≤15-PASS

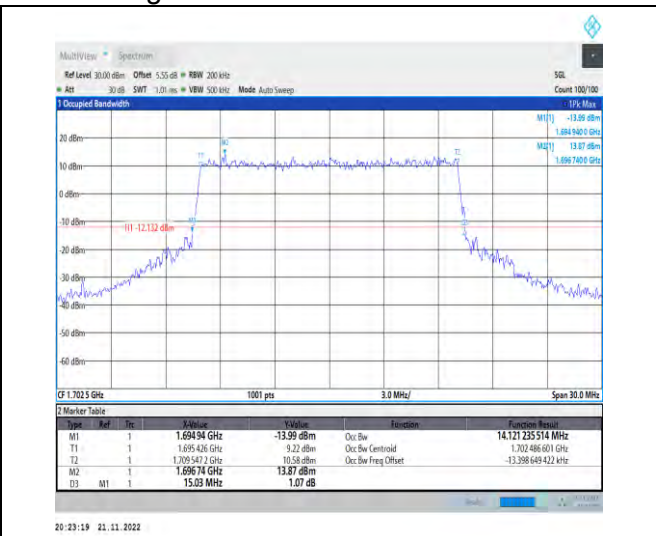
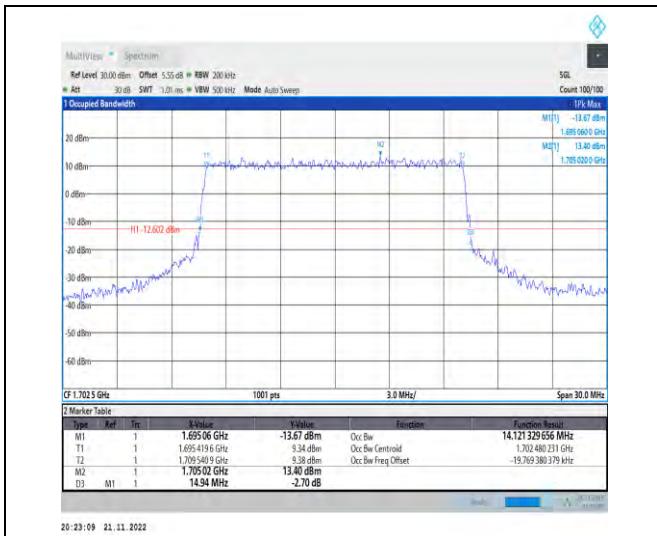
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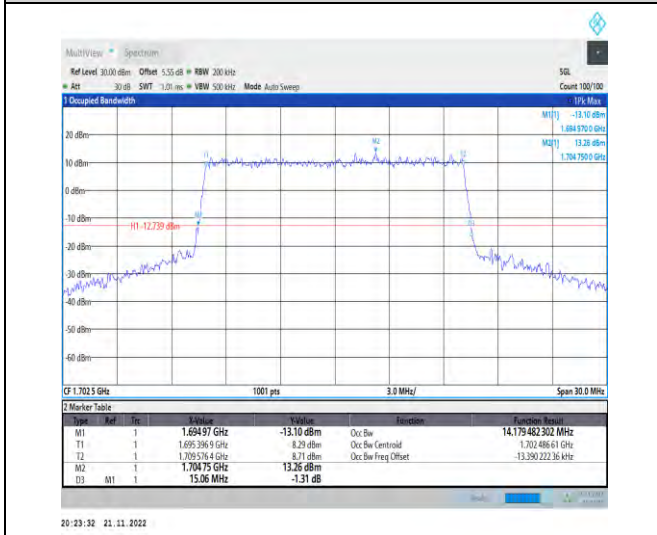
1-N70-PC3-15-15-M-5-DFT-256QAM-Outer_Full-75 @0-Ant1-13.441-14.340-≤15-PASS





1-N70-PC3-15-15-M-6-CP-QPSK-Outer_Full-79@0-Ant1-14.121-14.940-≤15-PASS

1-N70-PC3-15-15-M-7-CP-16QAM-Outer_Full-79@0-Ant1-14.121-15.030-≤15-PASS



1-N70-PC3-15-15-M-8-CP-64QAM-Outer_Full-79@0-Ant1-14.179-15.060-≤15-PASS

1-N70-PC3-15-15-M-9-CP-256QAM-Outer_Full-79@0-Ant1-14.127-15.030-≤15-PASS



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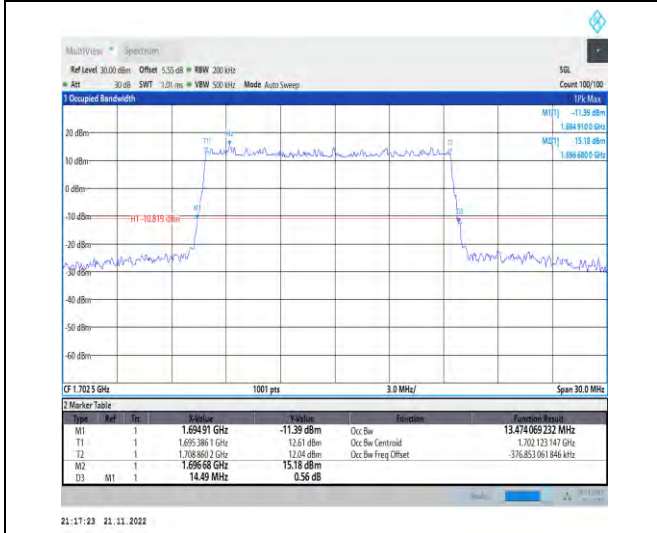
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1-N70-PC3-15-15-H-1-DFT-QPSK-Outer_Full-75@0-Ant1-13.456-14.220-≤15-PASS



1-N70-PC3-15-15-H-2-DFT-PI2BPSK-Outer_Full-75@0-Ant1-13.434-14.280-≤15-PASS



1-N70-PC3-15-15-H-3-DFT-16QAM-Outer_Full-75@0-Ant1-13.474-14.490-≤15-PASS



1-N70-PC3-15-15-H-4-DFT-64QAM-Outer_Full-75@0-Ant1-13.449-14.400-≤15-PASS



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1-N70-PC3-15-15-H-5-DFT-256QAM-Outer_Full-75@0-Ant1-13.441-14.400-≤15-PASS

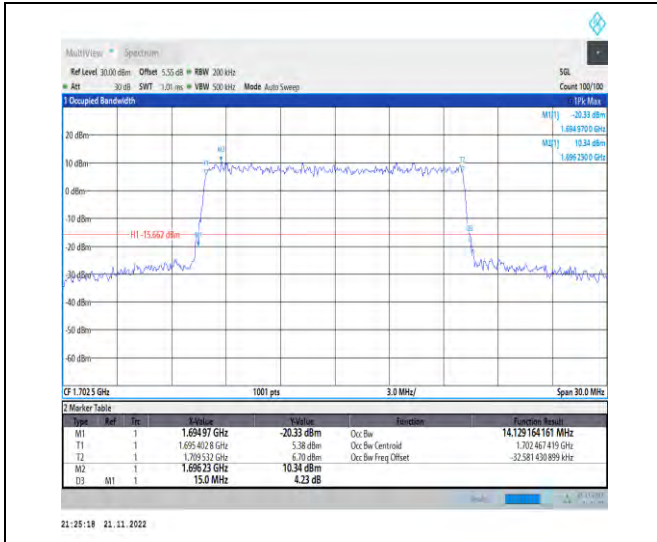
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1-N70-PC3-15-15-H-7-CP-16QAM-Outer_Full-79@0-Ant1-14.111-15.150-≤15-PASS

1-N70-PC3-15-15-H-8-CP-64QAM-Outer_Full-79@0-Ant1-14.191-15.120-≤15-PASS





1-N70-PC3-15-15-H-9-CP-256QAM-Outer_Full-79@
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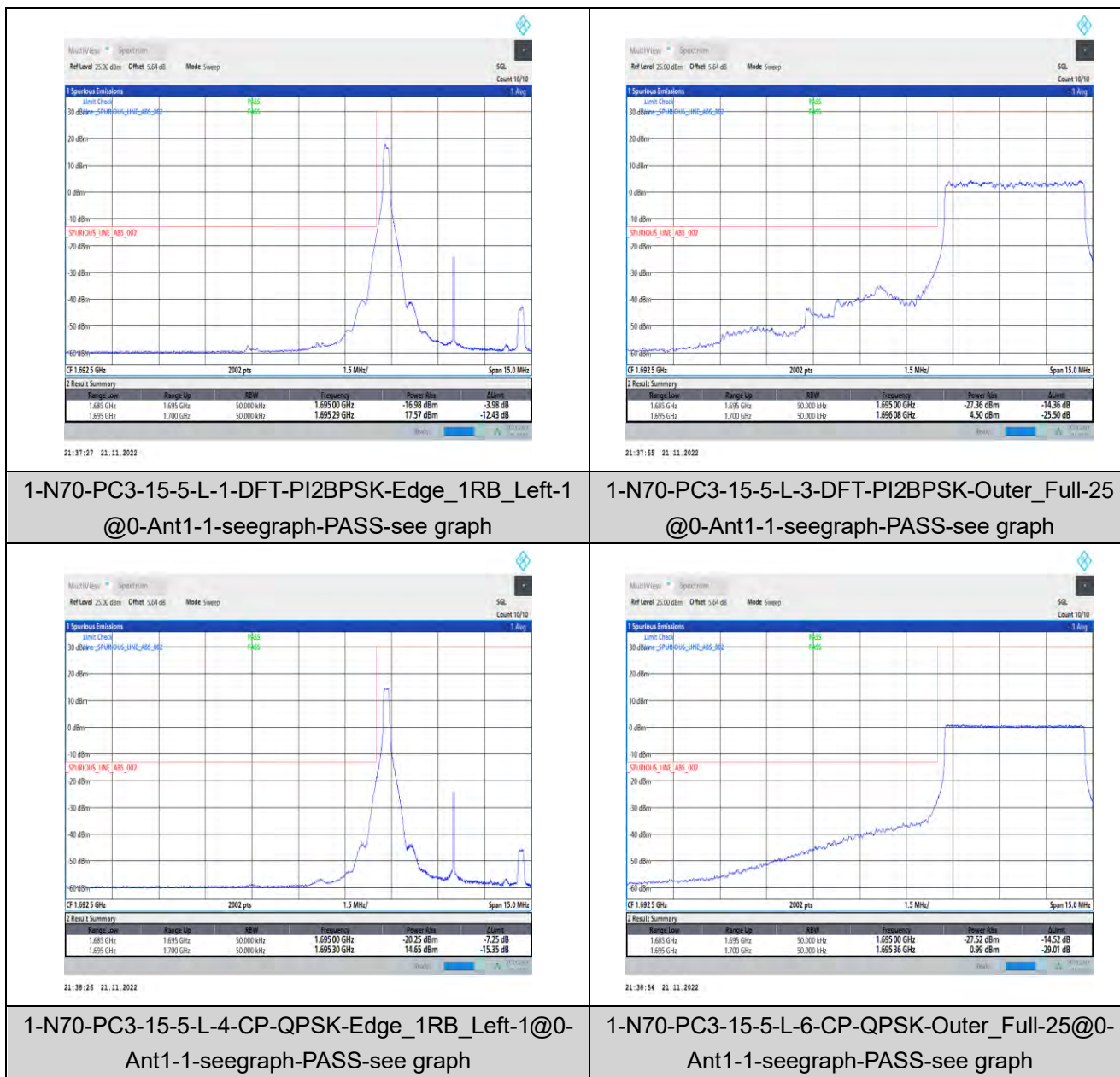
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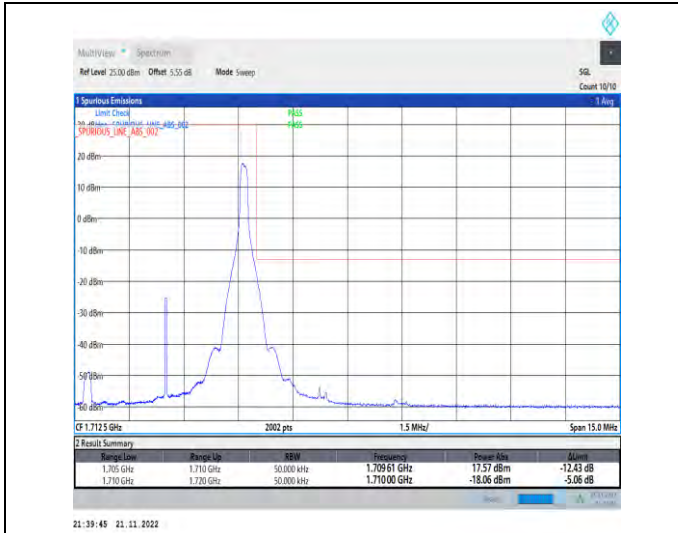
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Band Edge for SA

Test Graphs

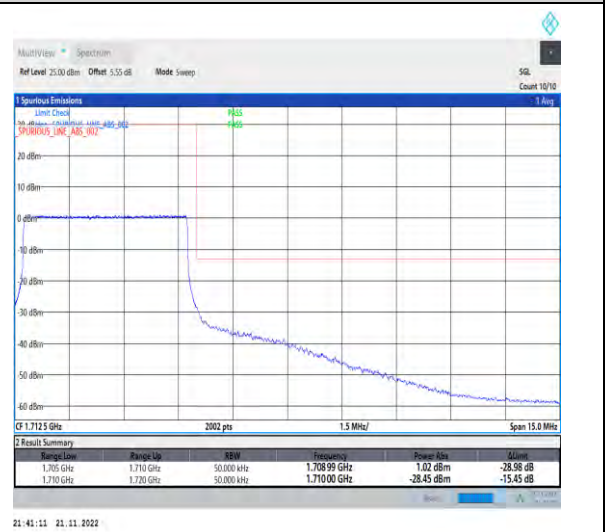
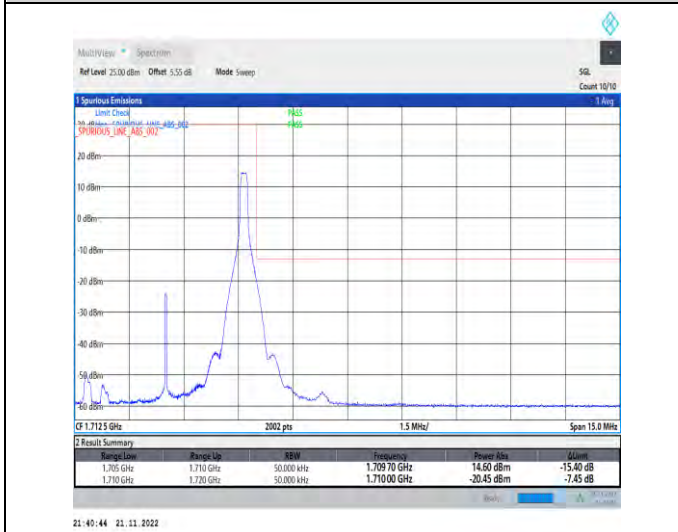


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1-N70-PC3-15-5-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@24-Ant1-1-seegraph-PASS-see graph

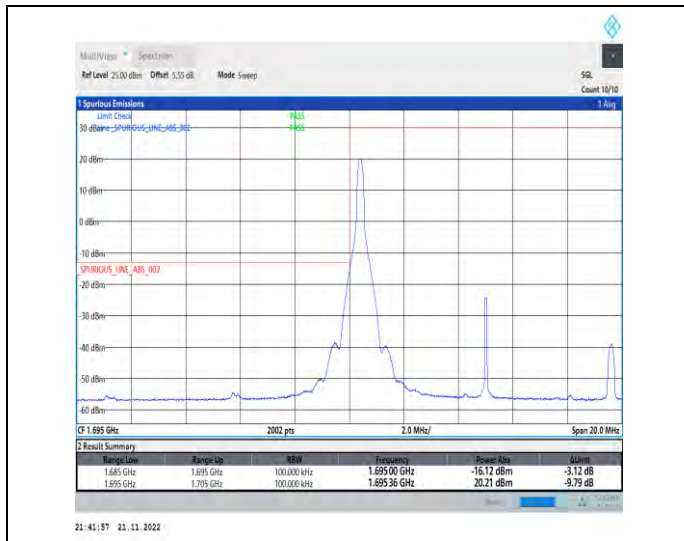
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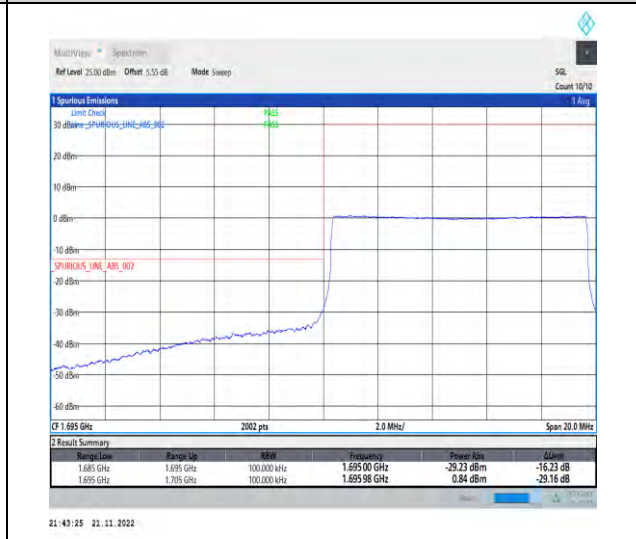
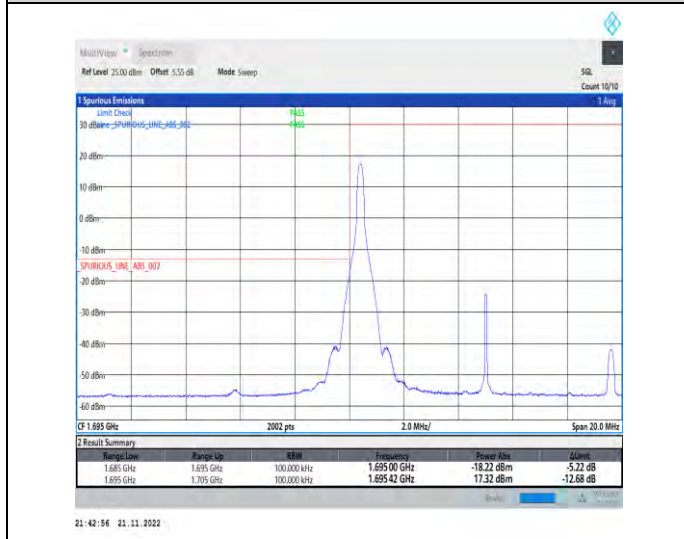
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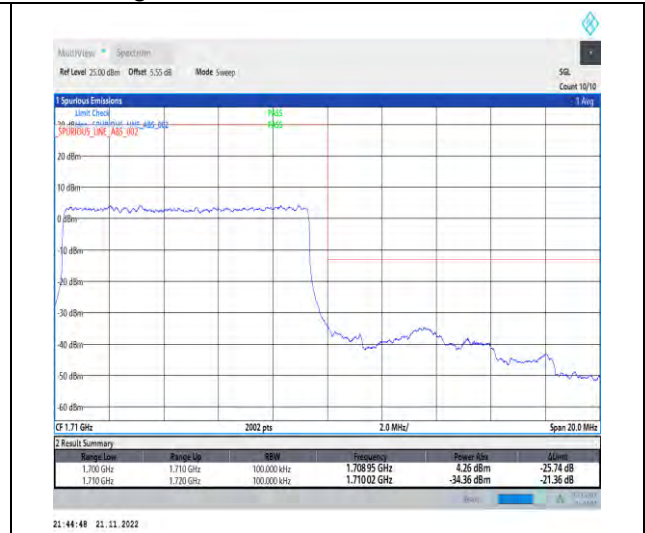
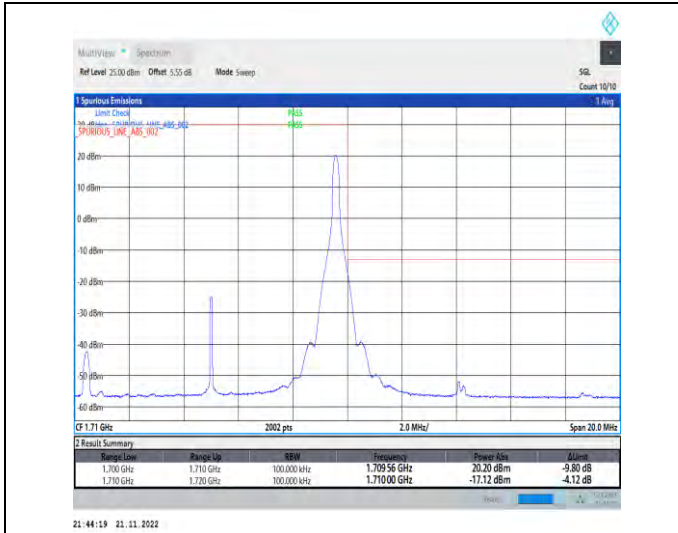


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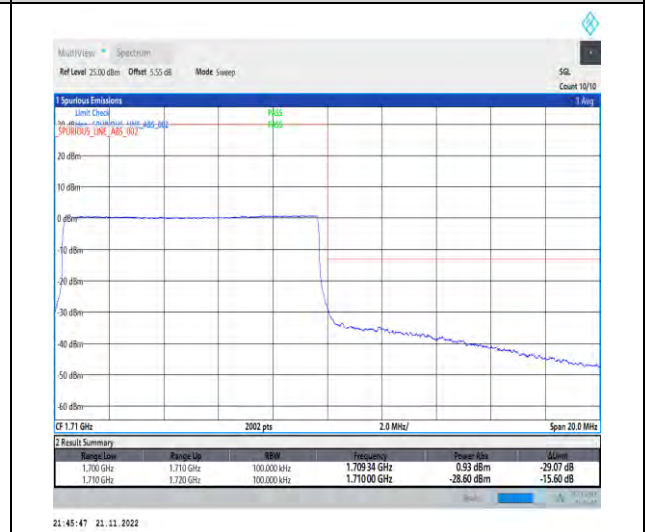
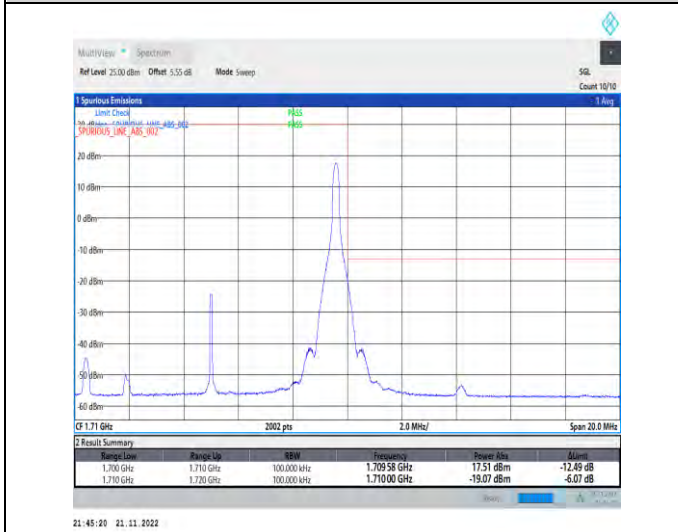


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1-N70-PC3-15-10-H-2-DFT-PI2BPSK-Edge_1RB_Right-t@51-Ant1-1-seegraph-PASS-see graph

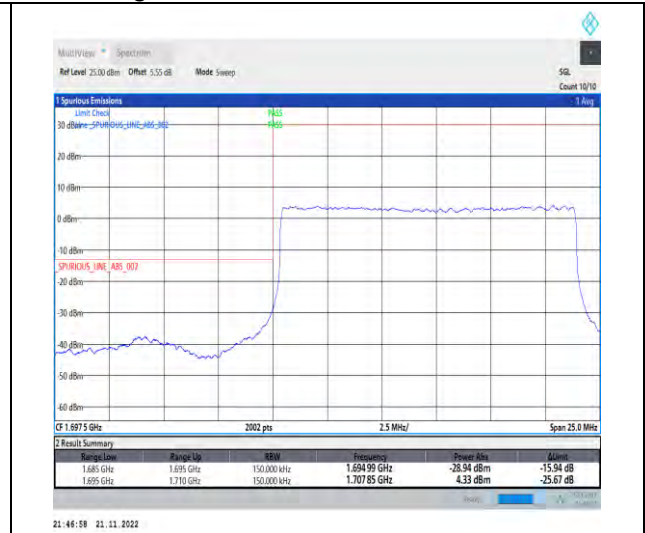
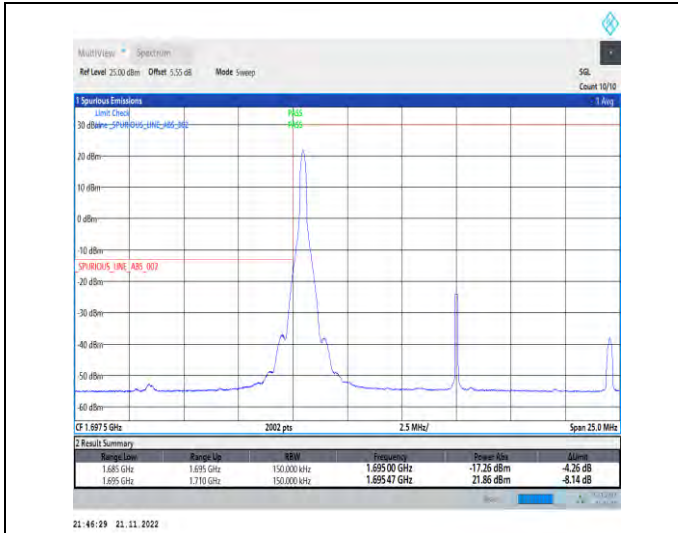
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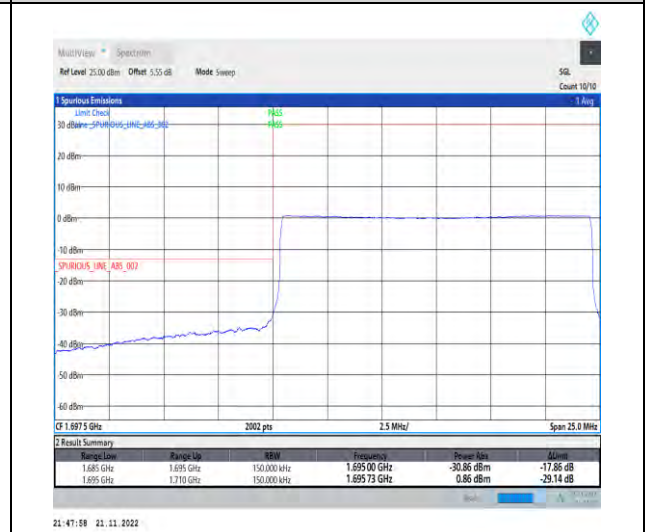
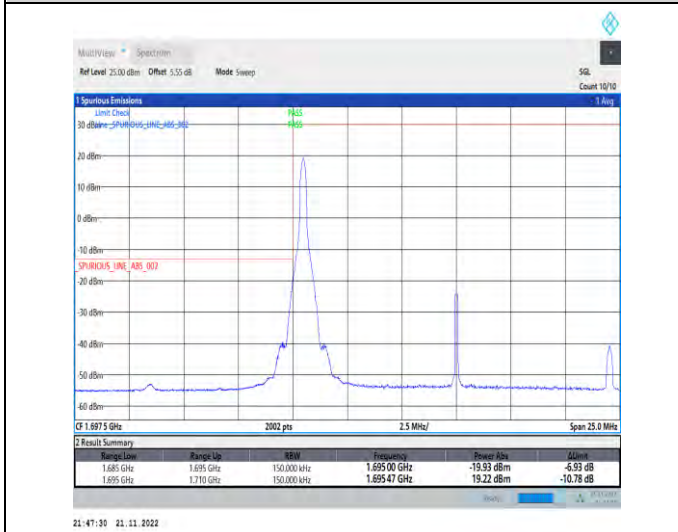
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1-N70-PC3-15-15-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1-seegraph-PASS-see graph

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



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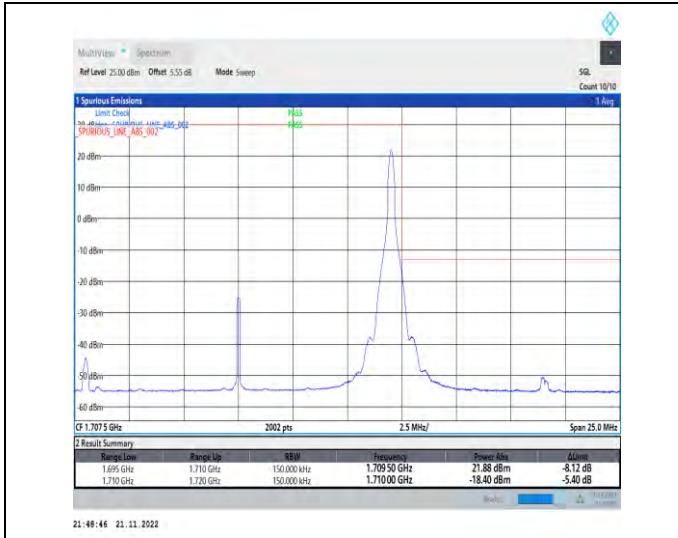
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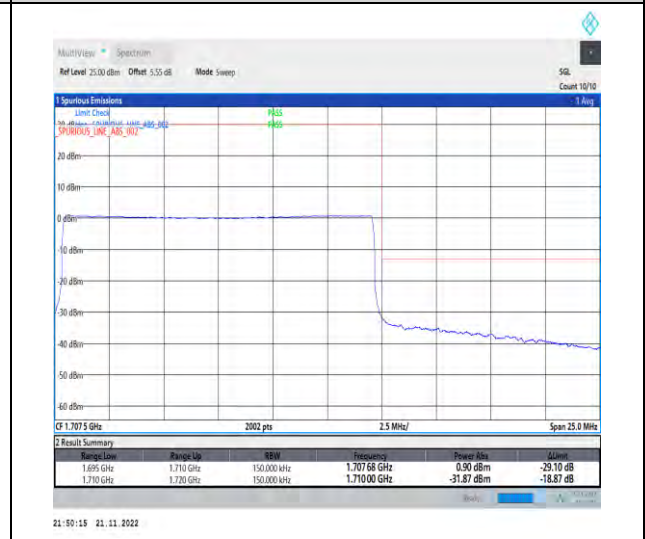
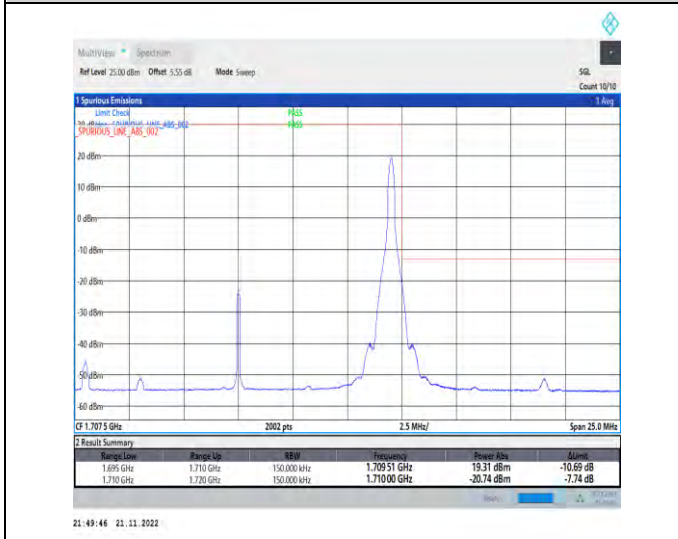
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1-N70-PC3-15-15-H-2-DFT-PI2BPSK-Edge_1RB_Right-t1@78-Ant1-1-seegraph-PASS-see graph

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



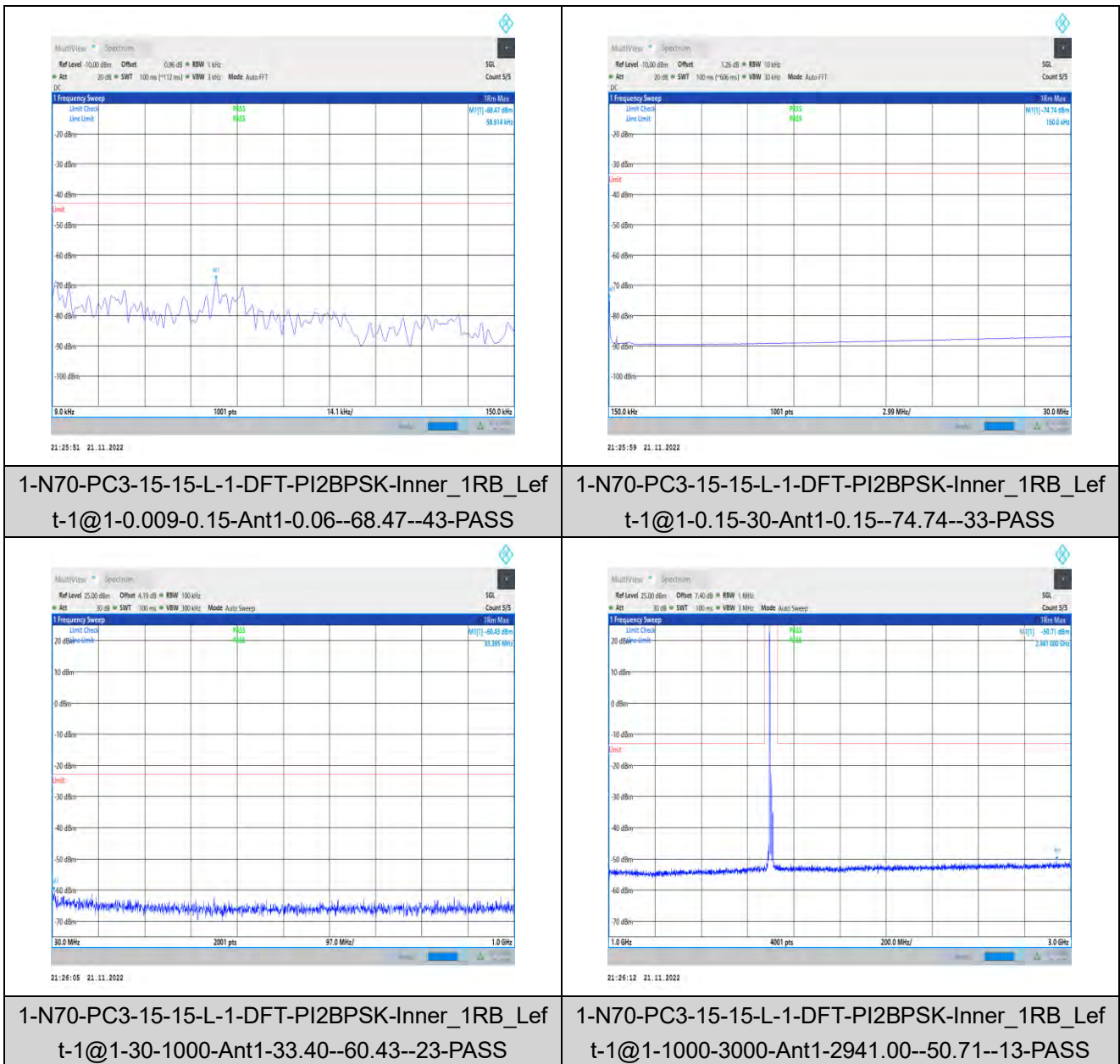
1-N70-PC3-15-15-H-5-CP-QPSK-Edge_1RB_Right-1@78-Ant1-1-seegraph-PASS-see graph

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



Conducted Spurious Emission for SA

Test Graphs

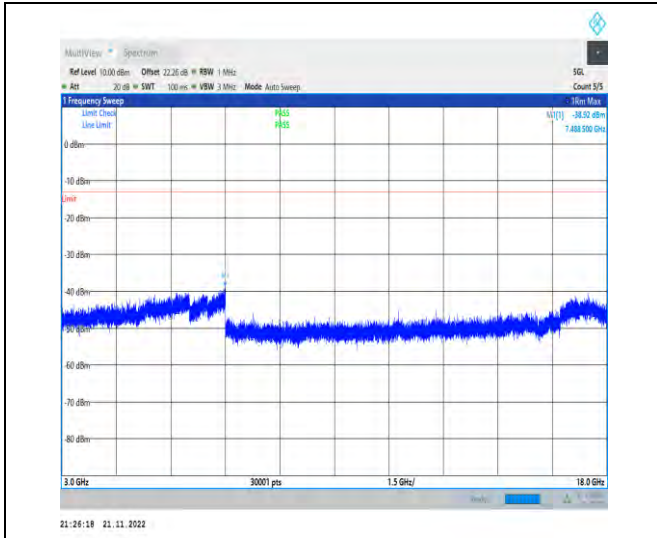


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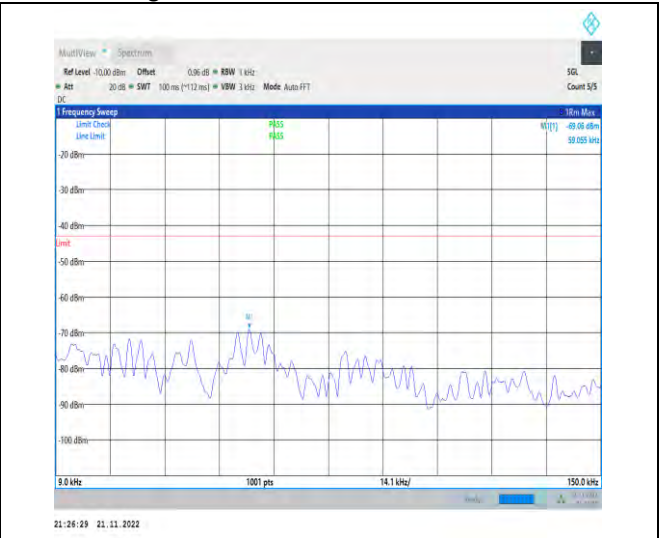
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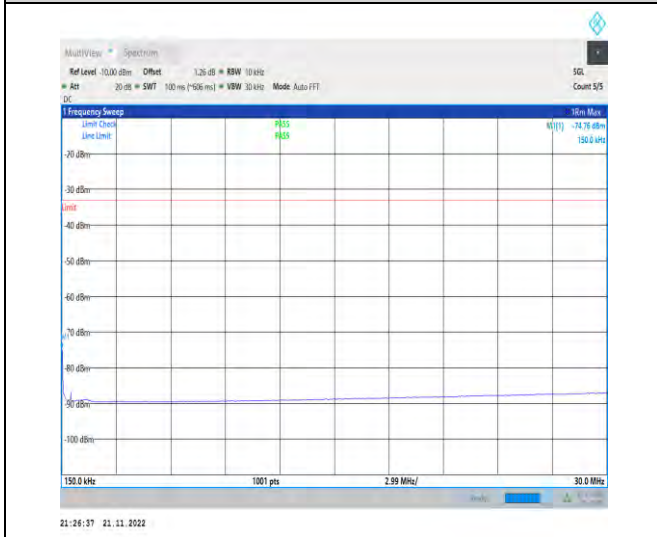
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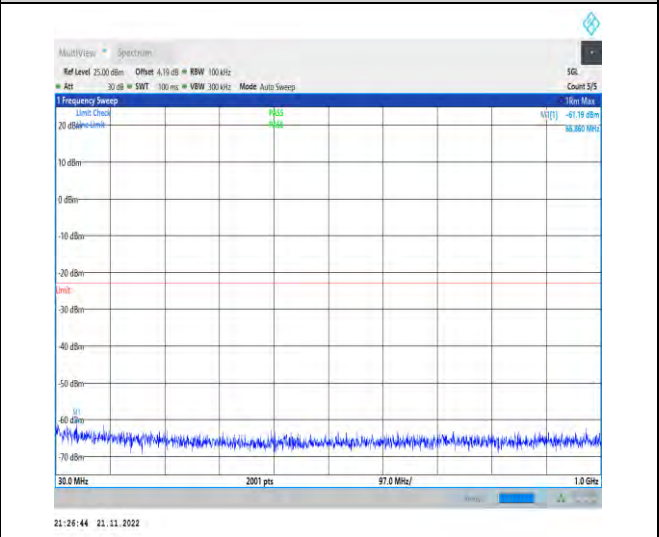
1-N70-PC3-15-15-L-1-DFT-PI2BPSK-Inner_1RB_Lef t-1@1-3000-18000-Ant1-7488.50--38.92--13-PASS



1-N70-PC3-15-15-M-1-DFT-PI2BPSK-Inner_1RB_Le ft-1@1-0.009-0.15-Ant1-0.06--69.06--43-PASS



1-N70-PC3-15-15-M-1-DFT-PI2BPSK-Inner_1RB_Le ft-1@1-0.15-30-Ant1-0.15--74.76--33-PASS



1-N70-PC3-15-15-M-1-DFT-PI2BPSK-Inner_1RB_Le ft-1@1-30-1000-Ant1-66.86--61.19--23-PASS

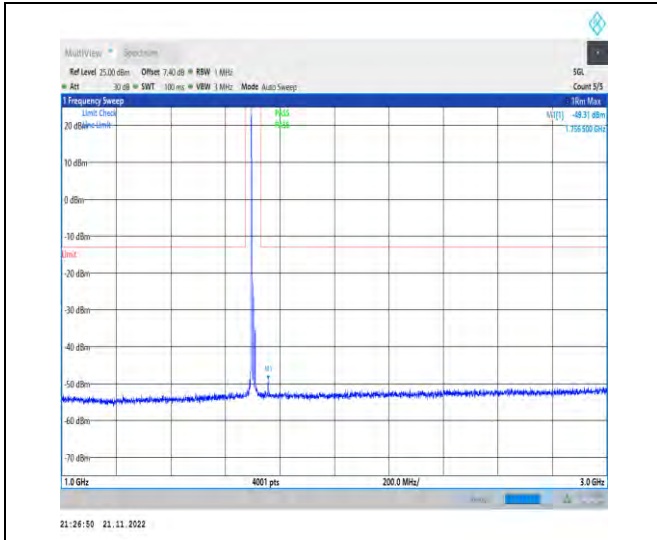


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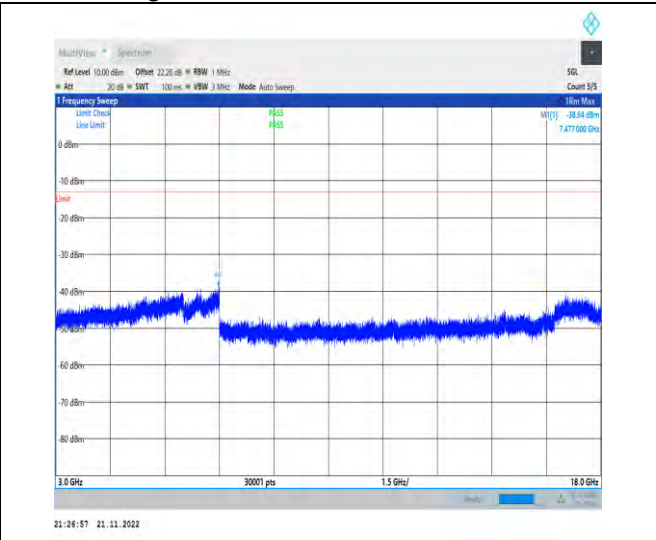
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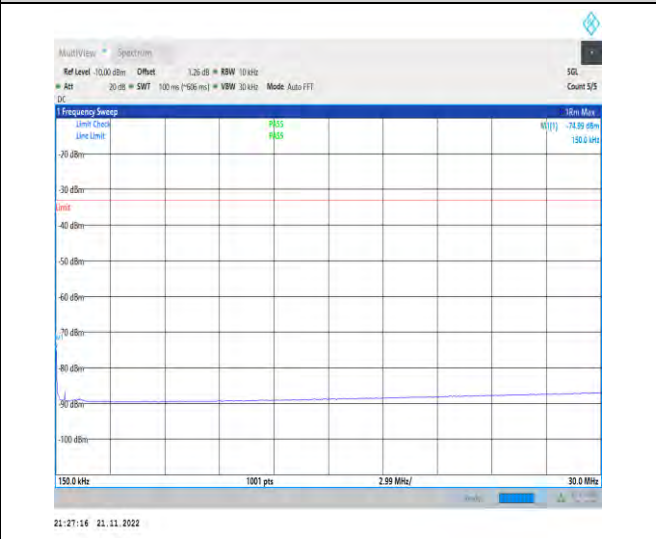
1-N70-PC3-15-15-M-1-DFT-PI2BPSK-Inner_1RB_Le ft-1@1-1000-3000-Ant1-1756.50--49.31--13-PASS



1-N70-PC3-15-15-M-1-DFT-PI2BPSK-Inner_1RB_Le ft-1@1-3000-18000-Ant1-7477.00--38.94--13-PASS



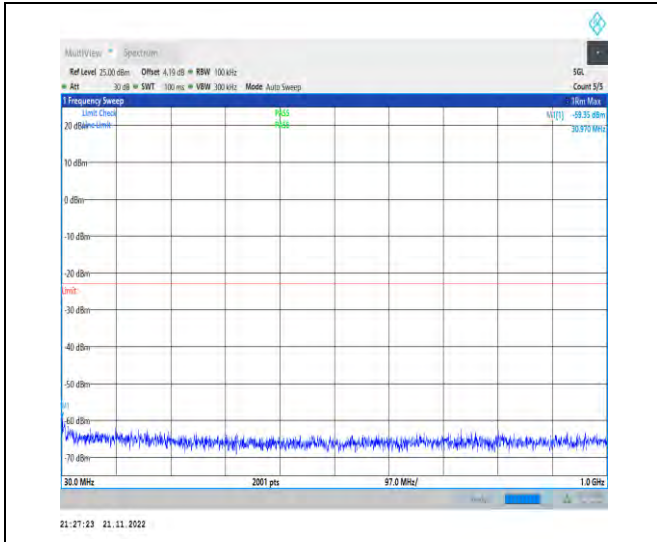
1-N70-PC3-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Le ft-1@1-0.009-0.15-Ant1-0.06--69.18--43-PASS



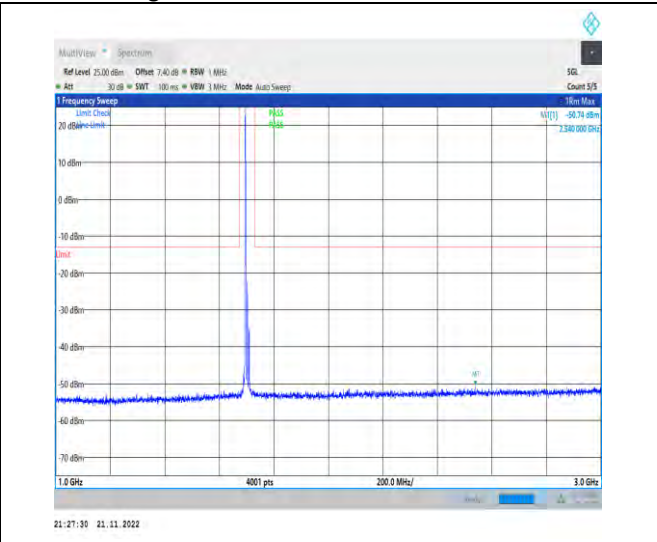
1-N70-PC3-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Le ft-1@1-0.15-30-Ant1-0.15--74.99--33-PASS



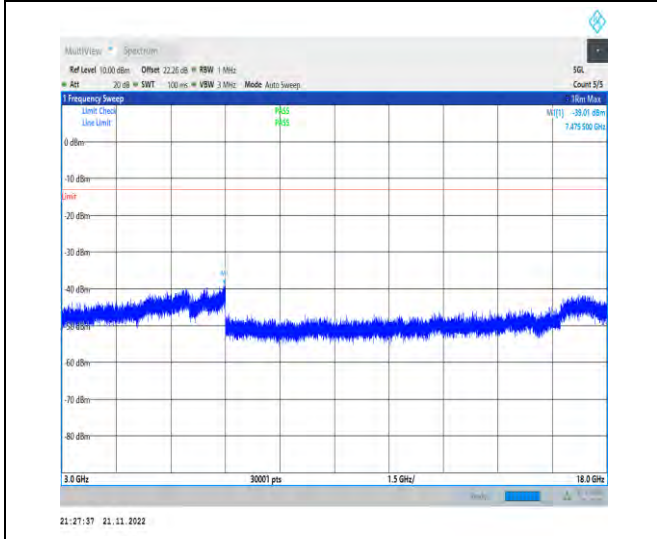
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1-N70-PC3-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Le ft-1@1-30-1000-Ant1-30.97--59.35--23-PASS



1-N70-PC3-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Le ft-1@1-1000-3000-Ant1-2540.00--50.74--13-PASS



1-N70-PC3-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Le ft-1@1-3000-18000-Ant1-7475.50--39.01--13-PASS



Field Strength of Spurious Radiation

Test Band = 5G NR SA n70_10M_TM1
 Test Channel = Mid

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3391.6800 | 42.38 | -46.29 | 29.44 | -69.73 | -13.00 | 56.73 | 201 | 2 | Horizontal |
| 2 | 5087.5200 | 40.25 | -45.40 | 32.93 | -67.48 | -13.00 | 54.48 | 230 | 183 | Horizontal |
| 3 | 6783.3600 | 40.17 | -44.11 | 35.81 | -63.39 | -13.00 | 50.39 | 123 | 316 | Horizontal |
| 4 | 8479.2000 | 38.85 | -41.59 | 37.50 | -60.50 | -13.00 | 47.50 | 236 | 0 | Horizontal |
| 5 | 10175.0400 | 32.42 | -39.41 | 38.77 | -63.48 | -13.00 | 50.48 | 258 | 347 | Horizontal |
| 6 | 11870.8800 | 32.56 | -37.05 | 38.83 | -60.93 | -13.00 | 47.93 | 190 | 105 | 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 | 46.73 | -46.30 | 29.44 | -65.39 | -13.00 | 52.39 | 215 | 135 | Vertical |
| 2 | 5087.5200 | 40.72 | -45.40 | 32.93 | -67.01 | -13.00 | 54.01 | 146 | 31 | Vertical |
| 3 | 6783.3600 | 41.00 | -44.11 | 35.81 | -62.56 | -13.00 | 49.56 | 129 | 257 | Vertical |
| 4 | 8479.2000 | 37.84 | -41.59 | 37.50 | -61.51 | -13.00 | 48.51 | 258 | 257 | Vertical |
| 5 | 10175.0400 | 33.22 | -39.41 | 38.77 | -62.68 | -13.00 | 49.68 | 175 | 0 | Vertical |
| 6 | 11870.8800 | 32.86 | -37.05 | 38.83 | -60.63 | -13.00 | 47.63 | 146 | 3 | Vertical |



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Test Band = 5G NR SA n70_5M_TM1

Test Channel = Low

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3391.1800 | 42.45 | -46.30 | 29.44 | -69.66 | -13.00 | 56.66 | 215 | 106 | Horizontal |
| 2 | 5086.7700 | 41.68 | -45.40 | 32.93 | -66.06 | -13.00 | 53.06 | 142 | 1 | Horizontal |
| 3 | 6782.3600 | 40.82 | -44.11 | 35.81 | -62.74 | -13.00 | 49.74 | 400 | 196 | Horizontal |
| 4 | 8477.9500 | 37.28 | -41.58 | 37.49 | -62.07 | -13.00 | 49.07 | 250 | 356 | Horizontal |
| 5 | 10173.5400 | 33.17 | -39.40 | 38.77 | -62.72 | -13.00 | 49.72 | 159 | 182 | Horizontal |
| 6 | 11869.1300 | 32.50 | -37.05 | 38.83 | -60.98 | -13.00 | 47.98 | 137 | 3 | 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 | 3391.1800 | 41.93 | -46.30 | 29.44 | -70.18 | -13.00 | 57.18 | 248 | 346 | Vertical |
| 2 | 5086.7700 | 40.56 | -45.40 | 32.93 | -67.18 | -13.00 | 54.18 | 159 | 90 | Vertical |
| 3 | 6782.3600 | 40.29 | -44.11 | 35.81 | -63.27 | -13.00 | 50.27 | 236 | 196 | Vertical |
| 4 | 8477.9500 | 37.23 | -41.58 | 37.49 | -62.12 | -13.00 | 49.12 | 251 | 90 | Vertical |
| 5 | 10173.5400 | 32.69 | -39.40 | 38.77 | -63.20 | -13.00 | 50.20 | 146 | 151 | Vertical |
| 6 | 11869.1300 | 32.65 | -37.05 | 38.83 | -60.83 | -13.00 | 47.83 | 219 | 17 | Vertical |



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Test Band = 5G NR SA n70_5M_TM1
Test Channel = Mid

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3396.1800 | 41.17 | -46.29 | 29.43 | -70.94 | -13.00 | 57.94 | 214 | 0 | Horizontal |
| 2 | 5094.2700 | 39.58 | -45.38 | 32.93 | -68.13 | -13.00 | 55.13 | 158 | 1 | Horizontal |
| 3 | 6792.3600 | 40.07 | -44.14 | 35.83 | -63.51 | -13.00 | 50.51 | 169 | 16 | Horizontal |
| 4 | 8490.4500 | 38.21 | -41.60 | 37.52 | -61.13 | -13.00 | 48.13 | 192 | 31 | Horizontal |
| 5 | 10188.5400 | 34.64 | -39.46 | 38.79 | -61.29 | -13.00 | 48.29 | 175 | 135 | Horizontal |
| 6 | 11886.6300 | 32.48 | -37.08 | 38.85 | -61.01 | -13.00 | 48.01 | 142 | 150 | 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 | 3396.1800 | 42.01 | -46.29 | 29.43 | -70.10 | -13.00 | 57.10 | 245 | 227 | Vertical |
| 2 | 5094.2700 | 39.80 | -45.38 | 32.93 | -67.91 | -13.00 | 54.91 | 126 | 168 | Vertical |
| 3 | 6792.3600 | 40.06 | -44.14 | 35.83 | -63.52 | -13.00 | 50.52 | 159 | 357 | Vertical |
| 4 | 8490.4500 | 38.22 | -41.60 | 37.52 | -61.12 | -13.00 | 48.12 | 147 | 17 | Vertical |
| 5 | 10188.5400 | 34.11 | -39.46 | 38.79 | -61.82 | -13.00 | 48.82 | 153 | 257 | Vertical |
| 6 | 11886.6300 | 32.00 | -37.08 | 38.85 | -61.49 | -13.00 | 48.49 | 269 | 227 | Vertical |



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Test Band = 5G NR SA n70_5M_TM1

Test Channel = High

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3401.1800 | 42.17 | -46.28 | 29.43 | -69.94 | -13.00 | 56.94 | 254 | 150 | Horizontal |
| 2 | 5101.7700 | 40.04 | -45.37 | 32.94 | -67.65 | -13.00 | 54.65 | 129 | 1 | Horizontal |
| 3 | 6802.3600 | 40.14 | -44.17 | 35.84 | -63.45 | -13.00 | 50.45 | 158 | 299 | Horizontal |
| 4 | 8502.9500 | 37.70 | -41.61 | 37.55 | -61.62 | -13.00 | 48.62 | 153 | 226 | Horizontal |
| 5 | 10203.5400 | 34.52 | -39.48 | 38.81 | -61.41 | -13.00 | 48.41 | 266 | 242 | Horizontal |
| 6 | 11904.1300 | 32.47 | -37.13 | 38.87 | -61.05 | -13.00 | 48.05 | 217 | 316 | 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 | 3401.1800 | 42.09 | -46.28 | 29.43 | -70.02 | -13.00 | 57.02 | 241 | 0 | Vertical |
| 2 | 5101.7700 | 40.27 | -45.37 | 32.94 | -67.42 | -13.00 | 54.42 | 165 | 357 | Vertical |
| 3 | 6802.3600 | 39.65 | -44.17 | 35.84 | -63.94 | -13.00 | 50.94 | 128 | 77 | Vertical |
| 4 | 8502.9500 | 37.76 | -41.61 | 37.55 | -61.56 | -13.00 | 48.56 | 193 | 357 | Vertical |
| 5 | 10203.5400 | 35.23 | -39.48 | 38.81 | -60.70 | -13.00 | 47.70 | 174 | 77 | Vertical |
| 6 | 11904.1300 | 32.27 | -37.13 | 38.87 | -61.25 | -13.00 | 48.25 | 121 | 240 | 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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 Rev.: 01
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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 | -2.300000 | -0.001351 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | VN | NT | 2.800000 | 0.001645 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | VL | NT | -3.700000 | -0.002173 | PASS |
| N70 | 15 | 15 | CP-QPSK | M | Outer_Full | VH | NT | -3.900000 | -0.002291 | PASS |
| N70 | 15 | 15 | CP-QPSK | M | Outer_Full | VN | NT | -4.400000 | -0.002584 | PASS |
| N70 | 15 | 15 | CP-QPSK | M | Outer_Full | VL | NT | -1.400000 | -0.000822 | 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 | -1.400000 | -0.000822 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | -20 | 1.100000 | 0.000646 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | -10 | -1.700000 | -0.000999 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | 0 | -0.700000 | -0.000411 | 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 | 20 | -2.100000 | -0.001233 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | 30 | 4.000000 | 0.002349 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | 40 | 1.300000 | 0.000764 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | 50 | -1.800000 | -0.001057 | PASS |
| N70 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | -30 | -2.600000 | -0.001527 | PASS |
| N70 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | -20 | -2.900000 | -0.001703 | PASS |
| N70 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | -10 | -5.500000 | -0.003231 | PASS |
| N70 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 0 | -2.600000 | -0.001527 | PASS |
| N70 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 10 | -6.100000 | -0.003583 | PASS |
| N70 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 20 | -5.100000 | -0.002996 | PASS |
| N70 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 30 | -2.400000 | -0.001410 | PASS |
| N70 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 40 | -2.700000 | -0.001586 | PASS |
| N70 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 50 | -4.400000 | -0.002584 | PASS |

---End of Attachment---



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