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Appendix B.23

NR Band n12



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Power (dBm) | ERP (dBm) | LIMIT | Verdict |
|------|-----|-----------|-------------|---------|-----------------|-------------|-----------|-------|---------|
| N12 | 15 | 5 | DFT-PI2BPSK | L | Inner_1RB_Left | 23.33 | 22.48 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-PI2BPSK | L | Inner_1RB_Right | 23.6 | 22.75 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-PI2BPSK | L | Outer_Full | 23.14 | 22.29 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-QPSK | L | Inner_1RB_Left | 23.61 | 22.76 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-QPSK | L | Inner_1RB_Right | 23.5 | 22.65 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-QPSK | L | Outer_Full | 22.76 | 21.91 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-16QAM | L | Inner_1RB_Left | 22.64 | 21.79 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-16QAM | L | Inner_1RB_Right | 22.51 | 21.66 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-16QAM | L | Outer_Full | 21.77 | 20.92 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-64QAM | L | Inner_1RB_Left | 21.46 | 20.61 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-64QAM | L | Inner_1RB_Right | 21.32 | 20.47 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-64QAM | L | Outer_Full | 21.23 | 20.38 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-256QAM | L | Inner_1RB_Left | 19.23 | 18.38 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-256QAM | L | Inner_1RB_Right | 19.22 | 18.37 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-256QAM | L | Outer_Full | 18.58 | 17.73 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-PI2BPSK | M | Inner_1RB_Left | 23.63 | 22.78 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-PI2BPSK | M | Inner_1RB_Right | 23.67 | 22.82 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-PI2BPSK | M | Outer_Full | 23.12 | 22.27 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-QPSK | M | Inner_1RB_Left | 23.51 | 22.66 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-QPSK | M | Inner_1RB_Right | 23.57 | 22.72 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-QPSK | M | Outer_Full | 22.59 | 21.74 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-16QAM | M | Inner_1RB_Left | 22.54 | 21.69 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-16QAM | M | Inner_1RB_Right | 22.6 | 21.75 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-16QAM | M | Outer_Full | 21.68 | 20.83 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-64QAM | M | Inner_1RB_Left | 21.34 | 20.49 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-64QAM | M | Inner_1RB_Right | 21.36 | 20.51 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-64QAM | M | Outer_Full | 21.14 | 20.29 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-256QAM | M | Inner_1RB_Left | 18.54 | 17.69 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-256QAM | M | Inner_1RB_Right | 18.57 | 17.72 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-256QAM | M | Outer_Full | 19.08 | 18.23 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-PI2BPSK | H | Inner_1RB_Left | 23.54 | 22.69 | 34.77 | PASS |



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| | | | | | | | | | |
|-----|----|----|-------------|---|-----------------|-------|-------|-------|------|
| N12 | 15 | 5 | DFT-PI2BPSK | H | Inner_1RB_Right | 23.53 | 22.68 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-PI2BPSK | H | Outer_Full | 23.03 | 22.18 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-QPSK | H | Inner_1RB_Left | 23.44 | 22.59 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-QPSK | H | Inner_1RB_Right | 23.42 | 22.57 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-QPSK | H | Outer_Full | 22.62 | 21.77 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-16QAM | H | Inner_1RB_Left | 22.56 | 21.71 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-16QAM | H | Inner_1RB_Right | 22.45 | 21.6 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-16QAM | H | Outer_Full | 21.61 | 20.76 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-64QAM | H | Inner_1RB_Left | 21.32 | 20.47 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-64QAM | H | Inner_1RB_Right | 21.24 | 20.39 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-64QAM | H | Outer_Full | 21.09 | 20.24 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-256QAM | H | Inner_1RB_Left | 19.36 | 18.51 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-256QAM | H | Inner_1RB_Right | 19.25 | 18.4 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-256QAM | H | Outer_Full | 18.63 | 17.78 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | L | Inner_1RB_Left | 23.79 | 22.94 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | L | Inner_1RB_Right | 23.57 | 22.72 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | L | Outer_Full | 23.22 | 22.37 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK | L | Inner_1RB_Left | 23.61 | 22.76 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK | L | Inner_1RB_Right | 23.49 | 22.64 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK | L | Outer_Full | 22.76 | 21.91 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM | L | Inner_1RB_Left | 22.71 | 21.86 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM | L | Inner_1RB_Right | 22.48 | 21.63 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM | L | Outer_Full | 21.74 | 20.89 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM | L | Inner_1RB_Left | 21.49 | 20.64 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM | L | Inner_1RB_Right | 21.27 | 20.42 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM | L | Outer_Full | 21.26 | 20.41 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM | L | Inner_1RB_Left | 18.71 | 17.86 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM | L | Inner_1RB_Right | 18.66 | 17.81 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM | L | Outer_Full | 19.17 | 18.32 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | M | Inner_1RB_Left | 23.8 | 22.95 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | M | Inner_1RB_Right | 23.65 | 22.8 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | 23.12 | 22.27 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK | M | Inner_1RB_Left | 23.65 | 22.8 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK | M | Inner_1RB_Right | 23.55 | 22.7 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK | M | Outer_Full | 22.68 | 21.83 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM | M | Inner_1RB_Left | 22.84 | 21.99 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM | M | Inner_1RB_Right | 22.53 | 21.68 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM | M | Outer_Full | 21.65 | 20.8 | 34.77 | PASS |



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| | | | | | | | | | |
|-----|----|----|-------------|---|-----------------|-------|-------|-------|------|
| N12 | 15 | 10 | DFT-64QAM | M | Inner_1RB_Left | 21.22 | 20.37 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM | M | Inner_1RB_Right | 21.24 | 20.39 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM | M | Outer_Full | 21.18 | 20.33 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM | M | Inner_1RB_Left | 18.69 | 17.84 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM | M | Inner_1RB_Right | 18.77 | 17.92 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM | M | Outer_Full | 18.36 | 17.51 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | H | Inner_1RB_Left | 23.7 | 22.85 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | H | Inner_1RB_Right | 23.61 | 22.76 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | H | Outer_Full | 23.25 | 22.4 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK | H | Inner_1RB_Left | 23.53 | 22.68 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK | H | Inner_1RB_Right | 23.46 | 22.61 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK | H | Outer_Full | 22.68 | 21.83 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM | H | Inner_1RB_Left | 22.58 | 21.73 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM | H | Inner_1RB_Right | 22.49 | 21.64 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM | H | Outer_Full | 21.7 | 20.85 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM | H | Inner_1RB_Left | 21.38 | 20.53 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM | H | Inner_1RB_Right | 21.29 | 20.44 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM | H | Outer_Full | 21.23 | 20.38 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM | H | Inner_1RB_Left | 18.33 | 17.48 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM | H | Inner_1RB_Right | 18.45 | 17.6 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM | H | Outer_Full | 18.85 | 18 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | L | Inner_1RB_Left | 23.85 | 23 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | L | Inner_1RB_Right | 23.76 | 22.91 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | L | Outer_Full | 23.41 | 22.56 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK | L | Inner_1RB_Left | 23.68 | 22.83 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK | L | Inner_1RB_Right | 23.64 | 22.79 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK | L | Outer_Full | 22.95 | 22.1 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM | L | Inner_1RB_Left | 22.8 | 21.95 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM | L | Inner_1RB_Right | 22.67 | 21.82 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM | L | Outer_Full | 21.96 | 21.11 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM | L | Inner_1RB_Left | 21.53 | 20.68 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM | L | Inner_1RB_Right | 21.38 | 20.53 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM | L | Outer_Full | 21.47 | 20.62 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM | L | Inner_1RB_Left | 18.86 | 18.01 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM | L | Inner_1RB_Right | 18.69 | 17.84 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM | L | Outer_Full | 19.39 | 18.54 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Inner_1RB_Left | 23.9 | 23.05 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Inner_1RB_Right | 23.71 | 22.86 | 34.77 | PASS |



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| | | | | | | | | | |
|-----|----|----|-------------|---|-----------------|-------|-------|-------|------|
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | 23.37 | 22.52 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK | M | Inner_1RB_Left | 23.74 | 22.89 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK | M | Inner_1RB_Right | 23.57 | 22.72 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK | M | Outer_Full | 22.92 | 22.07 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM | M | Inner_1RB_Left | 22.8 | 21.95 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM | M | Inner_1RB_Right | 22.68 | 21.83 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM | M | Outer_Full | 21.95 | 21.1 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM | M | Inner_1RB_Left | 21.62 | 20.77 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM | M | Inner_1RB_Right | 21.43 | 20.58 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM | M | Outer_Full | 21.45 | 20.6 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM | M | Inner_1RB_Left | 18.78 | 17.93 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM | M | Inner_1RB_Right | 18.68 | 17.83 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM | M | Outer_Full | 19.3 | 18.45 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | H | Inner_1RB_Left | 23.84 | 22.99 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | H | Inner_1RB_Right | 23.67 | 22.82 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | H | Outer_Full | 23.37 | 22.52 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK | H | Inner_1RB_Left | 23.7 | 22.85 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK | H | Inner_1RB_Right | 23.53 | 22.68 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK | H | Outer_Full | 22.89 | 22.04 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM | H | Inner_1RB_Left | 22.79 | 21.94 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM | H | Inner_1RB_Right | 22.56 | 21.71 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM | H | Outer_Full | 21.89 | 21.04 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM | H | Inner_1RB_Left | 21.55 | 20.7 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM | H | Inner_1RB_Right | 21.43 | 20.58 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM | H | Outer_Full | 21.4 | 20.55 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM | H | Inner_1RB_Left | 18.96 | 18.11 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM | H | Inner_1RB_Right | 18.78 | 17.93 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM | H | Outer_Full | 18.66 | 17.81 | 34.77 | PASS |



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Peak-to-Average Ratio for SA

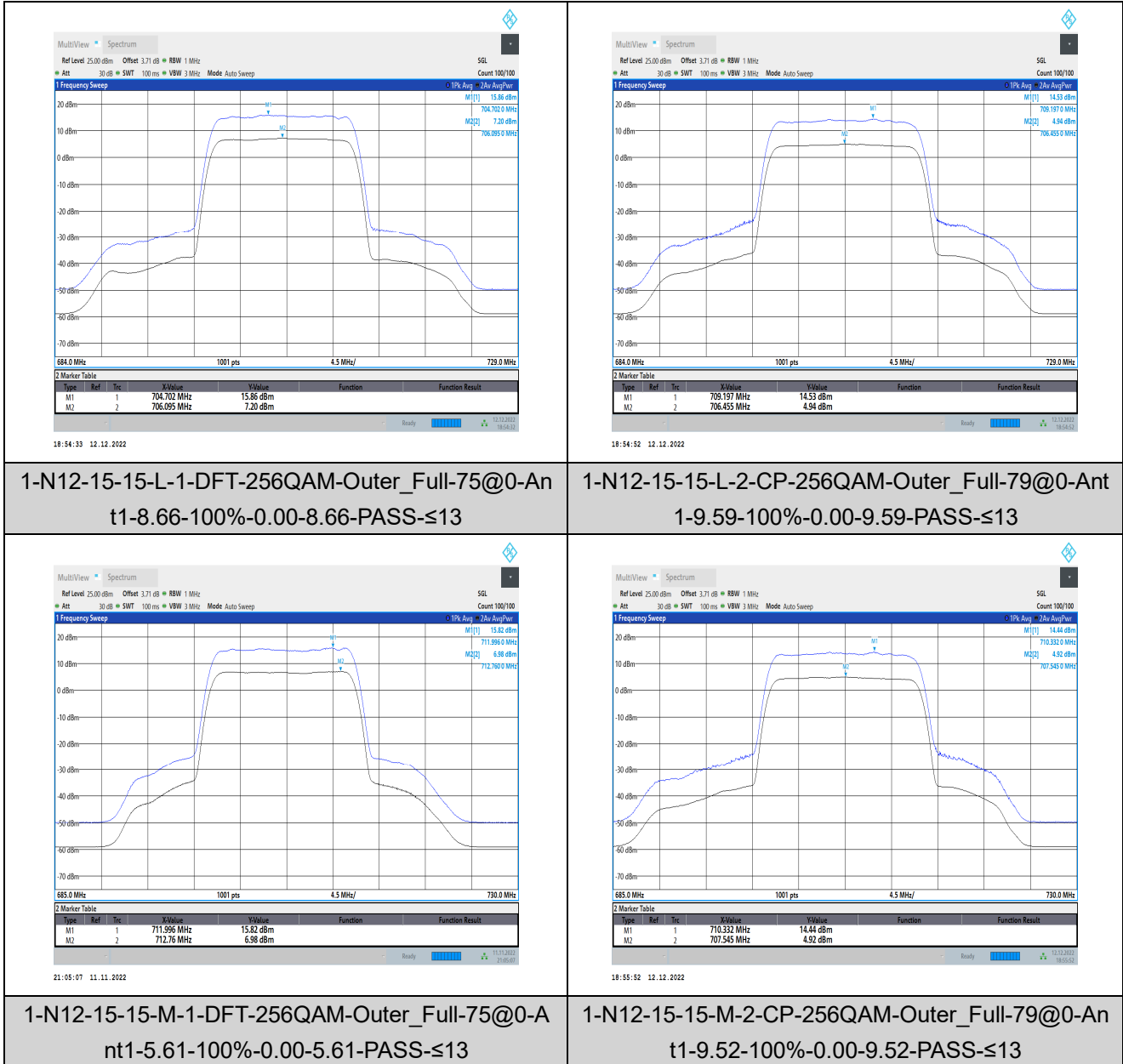
Test Result

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | DutyCycle | Factor | Result | Limit | Verdict |
|------|-----|-----------|------------|---------|------------|-----------|--------|--------|-------|---------|
| N12 | 15 | 15 | DFT-256QAM | L | Outer_Full | 100% | 0.00 | 8.66 | ≤13 | PASS |
| N12 | 15 | 15 | CP-256QAM | L | Outer_Full | 100% | 0.00 | 9.59 | ≤13 | PASS |
| N12 | 15 | 15 | DFT-256QAM | M | Outer_Full | 100% | 0.00 | 8.84 | ≤13 | PASS |
| N12 | 15 | 15 | CP-256QAM | M | Outer_Full | 100% | 0.00 | 9.52 | ≤13 | PASS |
| N12 | 15 | 15 | DFT-256QAM | H | Outer_Full | 100% | 0.00 | 8.85 | ≤13 | PASS |
| N12 | 15 | 15 | CP-256QAM | H | Outer_Full | 100% | 0.00 | 9.38 | ≤13 | PASS |



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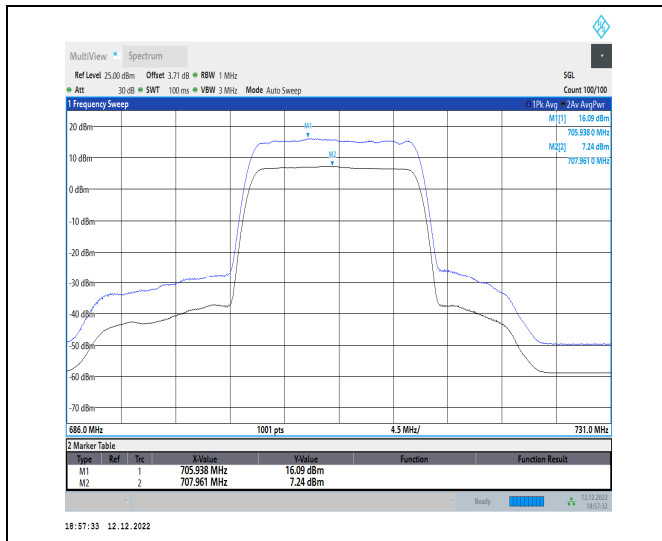
Test Graphs



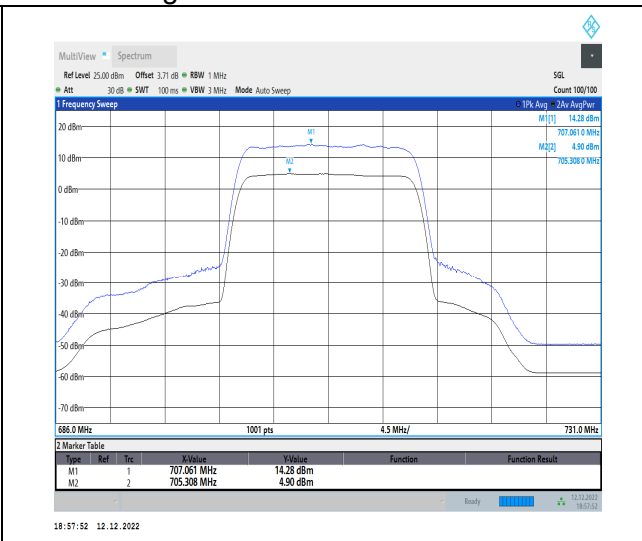
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1-N12-15-15-H-1-DFT-256QAM-Outer_Full-75@0-An
 t1-8.85-100%-0.00-8.85-PASS-≤13



1-N12-15-15-H-2-CP-256QAM-Outer_Full-79@0-An
 t1-9.38-100%-0.00-9.38-PASS-≤13



Modulation characteristics for SA

Test Result

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Result | Verdict |
|------|-----|-----------|-------------|---------|------------|-----------|---------|
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | see graph | PASS |
| N12 | 15 | 15 | DFT-QPSK | M | Outer_Full | see graph | PASS |
| N12 | 15 | 15 | DFT-16QAM | M | Outer_Full | see graph | PASS |
| N12 | 15 | 15 | DFT-64QAM | M | Outer_Full | see graph | PASS |
| N12 | 15 | 15 | DFT-256QAM | M | Outer_Full | see graph | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | see graph | PASS |
| N12 | 15 | 15 | CP-16QAM | M | Outer_Full | see graph | PASS |
| N12 | 15 | 15 | CP-64QAM | M | Outer_Full | see graph | PASS |
| N12 | 15 | 15 | CP-256QAM | M | Outer_Full | see graph | PASS |



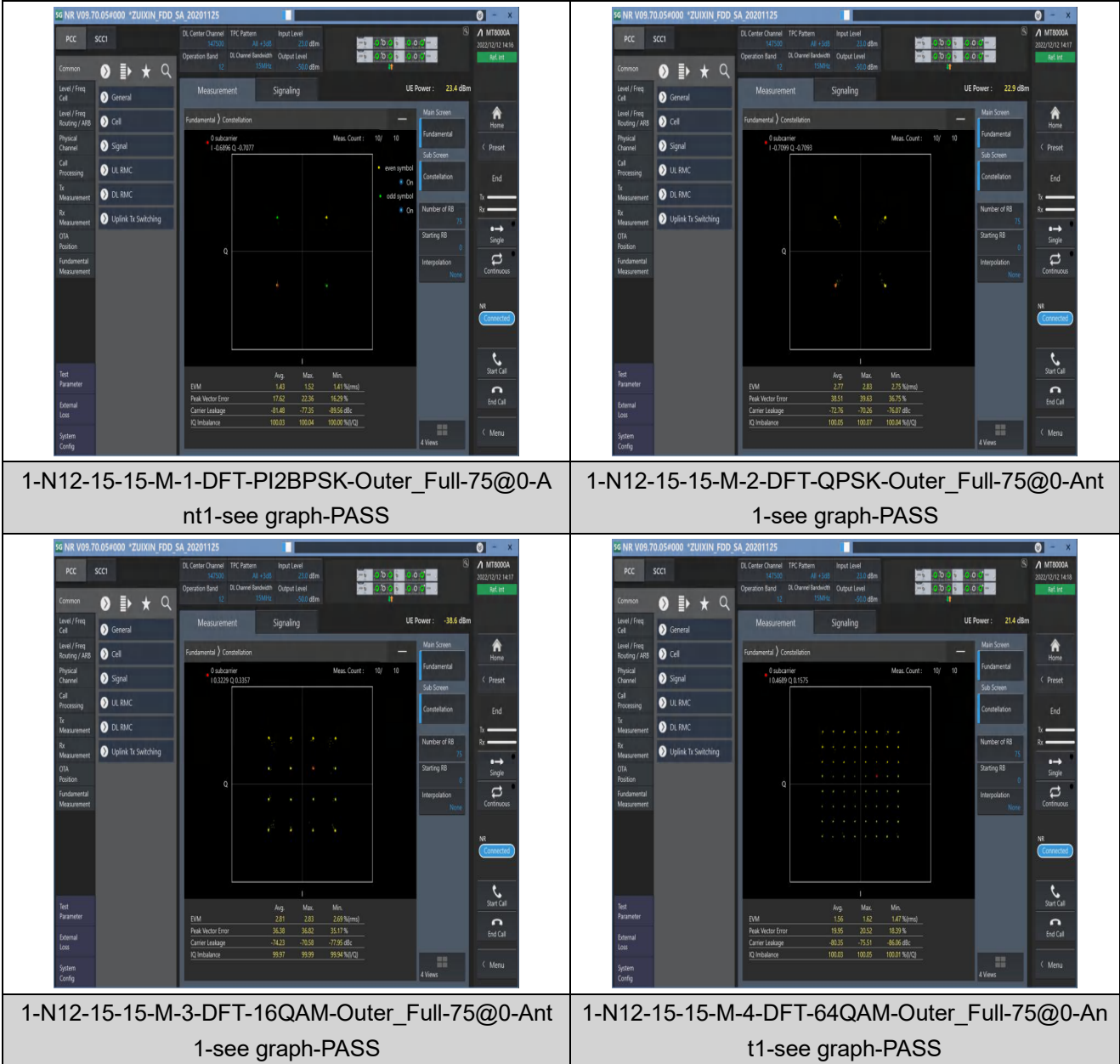
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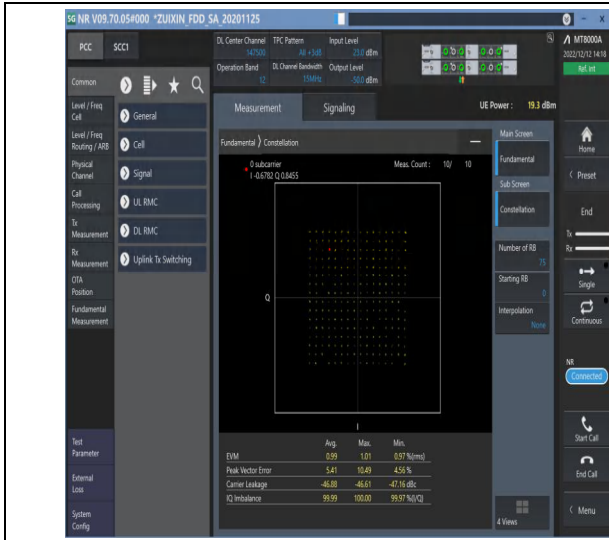
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Test Graphs

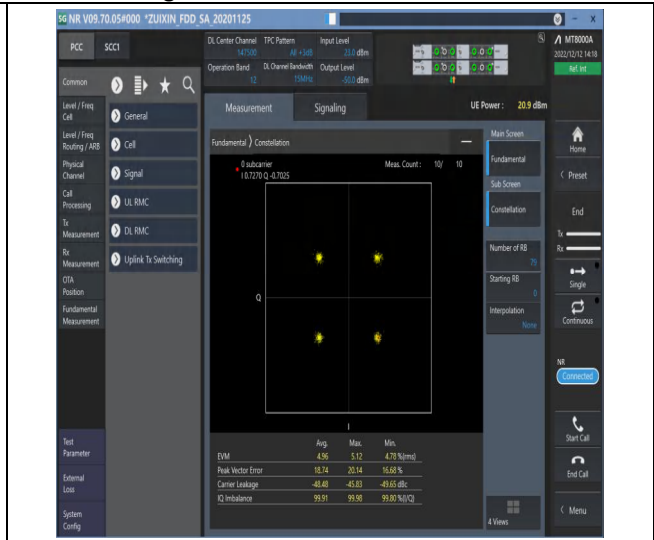


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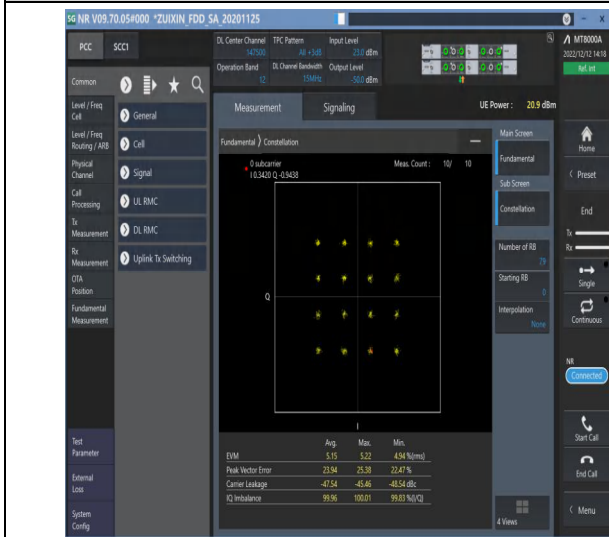
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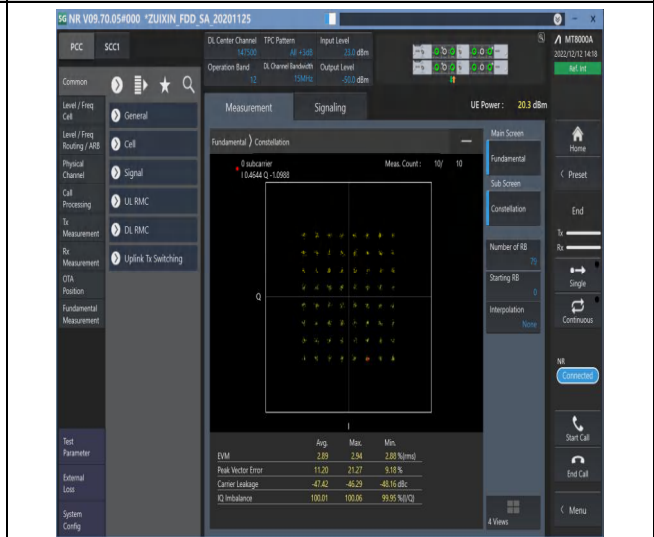
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t1-see graph-PASS



1-N12-15-15-M-6-CP-QPSK-Outer_Full-79@0-Ant1
-see graph-PASS



1-N12-15-15-M-7-CP-16QAM-Outer_Full-79@0-Ant1-
see graph-PASS



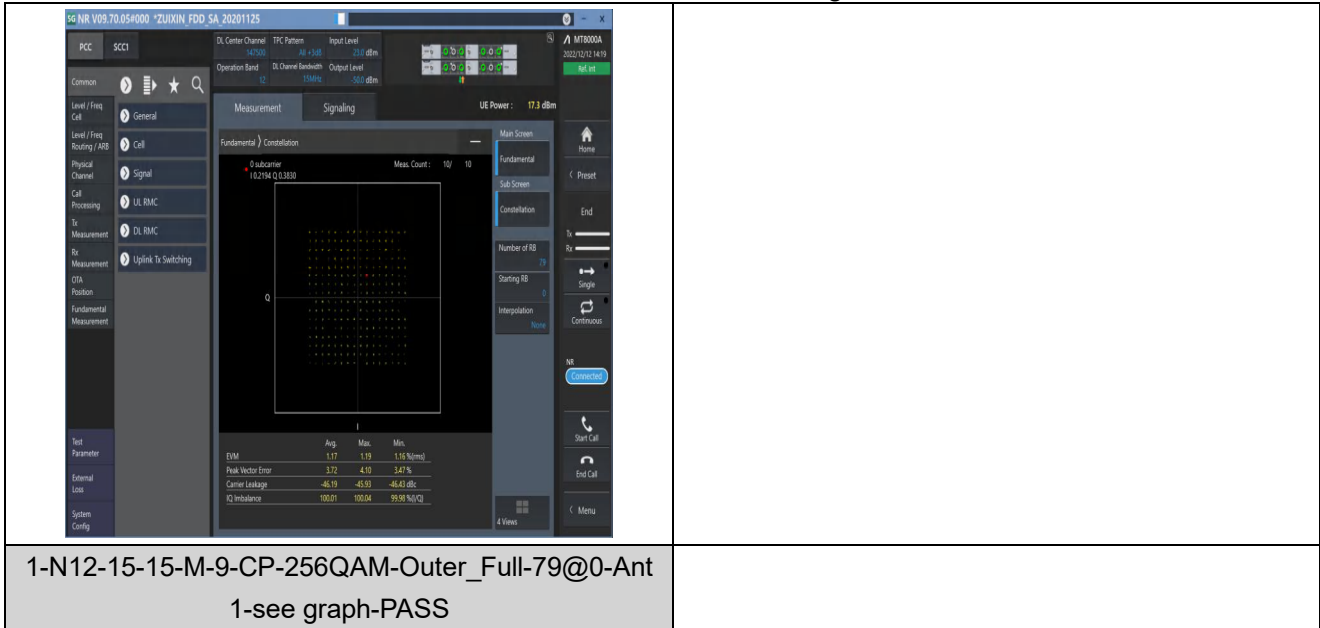
1-N12-15-15-M-8-CP-64QAM-Outer_Full-79@0-Ant
1-see graph-PASS



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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 |
|------|-----|-----------|-------------|---------|------------|--------------|---------------|---------|
| N12 | 15 | 5 | DFT-QPSK | L | Outer_Full | 4.466 | 4.990 | PASS |
| N12 | 15 | 5 | DFT-PI2BPSK | L | Outer_Full | 4.468 | 4.990 | PASS |
| N12 | 15 | 5 | DFT-16QAM | L | Outer_Full | 4.477 | 5.130 | PASS |
| N12 | 15 | 5 | DFT-64QAM | L | Outer_Full | 4.485 | 4.950 | PASS |
| N12 | 15 | 5 | DFT-256QAM | L | Outer_Full | 4.48 | 4.980 | PASS |
| N12 | 15 | 5 | CP-QPSK | L | Outer_Full | 4.489 | 5.100 | PASS |
| N12 | 15 | 5 | CP-16QAM | L | Outer_Full | 4.495 | 5.040 | PASS |
| N12 | 15 | 5 | CP-64QAM | L | Outer_Full | 4.478 | 5.060 | PASS |
| N12 | 15 | 5 | CP-256QAM | L | Outer_Full | 4.488 | 5.120 | PASS |
| N12 | 15 | 5 | DFT-QPSK | M | Outer_Full | 4.468 | 4.920 | PASS |
| N12 | 15 | 5 | DFT-PI2BPSK | M | Outer_Full | 4.469 | 5.110 | PASS |
| N12 | 15 | 5 | DFT-16QAM | M | Outer_Full | 4.482 | 5.120 | PASS |
| N12 | 15 | 5 | DFT-64QAM | M | Outer_Full | 4.475 | 4.860 | PASS |
| N12 | 15 | 5 | DFT-256QAM | M | Outer_Full | 4.463 | 5.040 | PASS |
| N12 | 15 | 5 | CP-QPSK | M | Outer_Full | 4.492 | 5.090 | PASS |
| N12 | 15 | 5 | CP-16QAM | M | Outer_Full | 4.482 | 5.020 | PASS |
| N12 | 15 | 5 | CP-64QAM | M | Outer_Full | 4.488 | 4.950 | PASS |
| N12 | 15 | 5 | CP-256QAM | M | Outer_Full | 4.471 | 5.060 | PASS |
| N12 | 15 | 5 | DFT-QPSK | H | Outer_Full | 4.476 | 4.940 | PASS |
| N12 | 15 | 5 | DFT-PI2BPSK | H | Outer_Full | 4.487 | 5.060 | PASS |
| N12 | 15 | 5 | DFT-16QAM | H | Outer_Full | 4.495 | 5.160 | PASS |
| N12 | 15 | 5 | DFT-64QAM | H | Outer_Full | 4.48 | 4.990 | PASS |
| N12 | 15 | 5 | DFT-256QAM | H | Outer_Full | 4.481 | 4.990 | PASS |
| N12 | 15 | 5 | CP-QPSK | H | Outer_Full | 4.476 | 4.990 | PASS |
| N12 | 15 | 5 | CP-16QAM | H | Outer_Full | 4.483 | 5.040 | PASS |
| N12 | 15 | 5 | CP-64QAM | H | Outer_Full | 4.489 | 5.010 | PASS |
| N12 | 15 | 5 | CP-256QAM | H | Outer_Full | 4.482 | 5.000 | PASS |
| N12 | 15 | 10 | DFT-QPSK | L | Outer_Full | 8.931 | 9.560 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | L | Outer_Full | 8.901 | 9.540 | PASS |
| N12 | 15 | 10 | DFT-16QAM | L | Outer_Full | 8.931 | 9.620 | PASS |
| N12 | 15 | 10 | DFT-64QAM | L | Outer_Full | 8.942 | 9.620 | PASS |
| N12 | 15 | 10 | DFT-256QAM | L | Outer_Full | 8.917 | 9.680 | PASS |



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|-----|----|----|-------------|---|------------|--------|--------|------|
| N12 | 15 | 10 | CP-QPSK | L | Outer_Full | 9.275 | 10.080 | PASS |
| N12 | 15 | 10 | CP-16QAM | L | Outer_Full | 9.271 | 10.080 | PASS |
| N12 | 15 | 10 | CP-64QAM | L | Outer_Full | 9.246 | 10.060 | PASS |
| N12 | 15 | 10 | CP-256QAM | L | Outer_Full | 9.275 | 10.040 | PASS |
| N12 | 15 | 10 | DFT-QPSK | M | Outer_Full | 8.909 | 9.600 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | 8.89 | 9.460 | PASS |
| N12 | 15 | 10 | DFT-16QAM | M | Outer_Full | 8.924 | 9.560 | PASS |
| N12 | 15 | 10 | DFT-64QAM | M | Outer_Full | 8.91 | 9.520 | PASS |
| N12 | 15 | 10 | DFT-256QAM | M | Outer_Full | 8.905 | 9.520 | PASS |
| N12 | 15 | 10 | CP-QPSK | M | Outer_Full | 9.264 | 9.980 | PASS |
| N12 | 15 | 10 | CP-16QAM | M | Outer_Full | 9.266 | 9.960 | PASS |
| N12 | 15 | 10 | CP-64QAM | M | Outer_Full | 9.277 | 9.980 | PASS |
| N12 | 15 | 10 | CP-256QAM | M | Outer_Full | 9.269 | 9.960 | PASS |
| N12 | 15 | 10 | DFT-QPSK | H | Outer_Full | 8.904 | 9.720 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | H | Outer_Full | 8.906 | 9.540 | PASS |
| N12 | 15 | 10 | DFT-16QAM | H | Outer_Full | 8.929 | 9.640 | PASS |
| N12 | 15 | 10 | DFT-64QAM | H | Outer_Full | 8.934 | 9.500 | PASS |
| N12 | 15 | 10 | DFT-256QAM | H | Outer_Full | 8.925 | 9.520 | PASS |
| N12 | 15 | 10 | CP-QPSK | H | Outer_Full | 9.314 | 10.140 | PASS |
| N12 | 15 | 10 | CP-16QAM | H | Outer_Full | 9.278 | 10.100 | PASS |
| N12 | 15 | 10 | CP-64QAM | H | Outer_Full | 9.243 | 9.860 | PASS |
| N12 | 15 | 10 | CP-256QAM | H | Outer_Full | 9.306 | 10.160 | PASS |
| N12 | 15 | 15 | DFT-QPSK | L | Outer_Full | 13.405 | 14.340 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | L | Outer_Full | 13.425 | 14.250 | PASS |
| N12 | 15 | 15 | DFT-16QAM | L | Outer_Full | 13.426 | 14.400 | PASS |
| N12 | 15 | 15 | DFT-64QAM | L | Outer_Full | 13.394 | 14.280 | PASS |
| N12 | 15 | 15 | DFT-256QAM | L | Outer_Full | 13.412 | 14.250 | PASS |
| N12 | 15 | 15 | CP-QPSK | L | Outer_Full | 14.089 | 15.030 | PASS |
| N12 | 15 | 15 | CP-16QAM | L | Outer_Full | 14.137 | 15.060 | PASS |
| N12 | 15 | 15 | CP-64QAM | L | Outer_Full | 14.122 | 14.910 | PASS |
| N12 | 15 | 15 | CP-256QAM | L | Outer_Full | 14.118 | 15.120 | PASS |
| N12 | 15 | 15 | DFT-QPSK | M | Outer_Full | 13.411 | 14.160 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | 13.43 | 14.310 | PASS |
| N12 | 15 | 15 | DFT-16QAM | M | Outer_Full | 13.434 | 14.370 | PASS |
| N12 | 15 | 15 | DFT-64QAM | M | Outer_Full | 13.409 | 14.340 | PASS |
| N12 | 15 | 15 | DFT-256QAM | M | Outer_Full | 13.462 | 14.400 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | 14.075 | 14.970 | PASS |
| N12 | 15 | 15 | CP-16QAM | M | Outer_Full | 14.123 | 14.850 | PASS |



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|-----|----|----|-------------|---|------------|--------|--------|------|
| N12 | 15 | 15 | CP-64QAM | M | Outer_Full | 14.1 | 14.940 | PASS |
| N12 | 15 | 15 | CP-256QAM | M | Outer_Full | 14.098 | 15.030 | PASS |
| N12 | 15 | 15 | DFT-QPSK | H | Outer_Full | 13.435 | 14.220 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | H | Outer_Full | 13.414 | 14.430 | PASS |
| N12 | 15 | 15 | DFT-16QAM | H | Outer_Full | 13.431 | 14.160 | PASS |
| N12 | 15 | 15 | DFT-64QAM | H | Outer_Full | 13.422 | 14.280 | PASS |
| N12 | 15 | 15 | DFT-256QAM | H | Outer_Full | 13.465 | 14.250 | PASS |
| N12 | 15 | 15 | CP-QPSK | H | Outer_Full | 14.095 | 15.000 | PASS |
| N12 | 15 | 15 | CP-16QAM | H | Outer_Full | 14.147 | 15.120 | PASS |
| N12 | 15 | 15 | CP-64QAM | H | Outer_Full | 14.145 | 14.940 | PASS |
| N12 | 15 | 15 | CP-256QAM | H | Outer_Full | 14.092 | 15.000 | PASS |



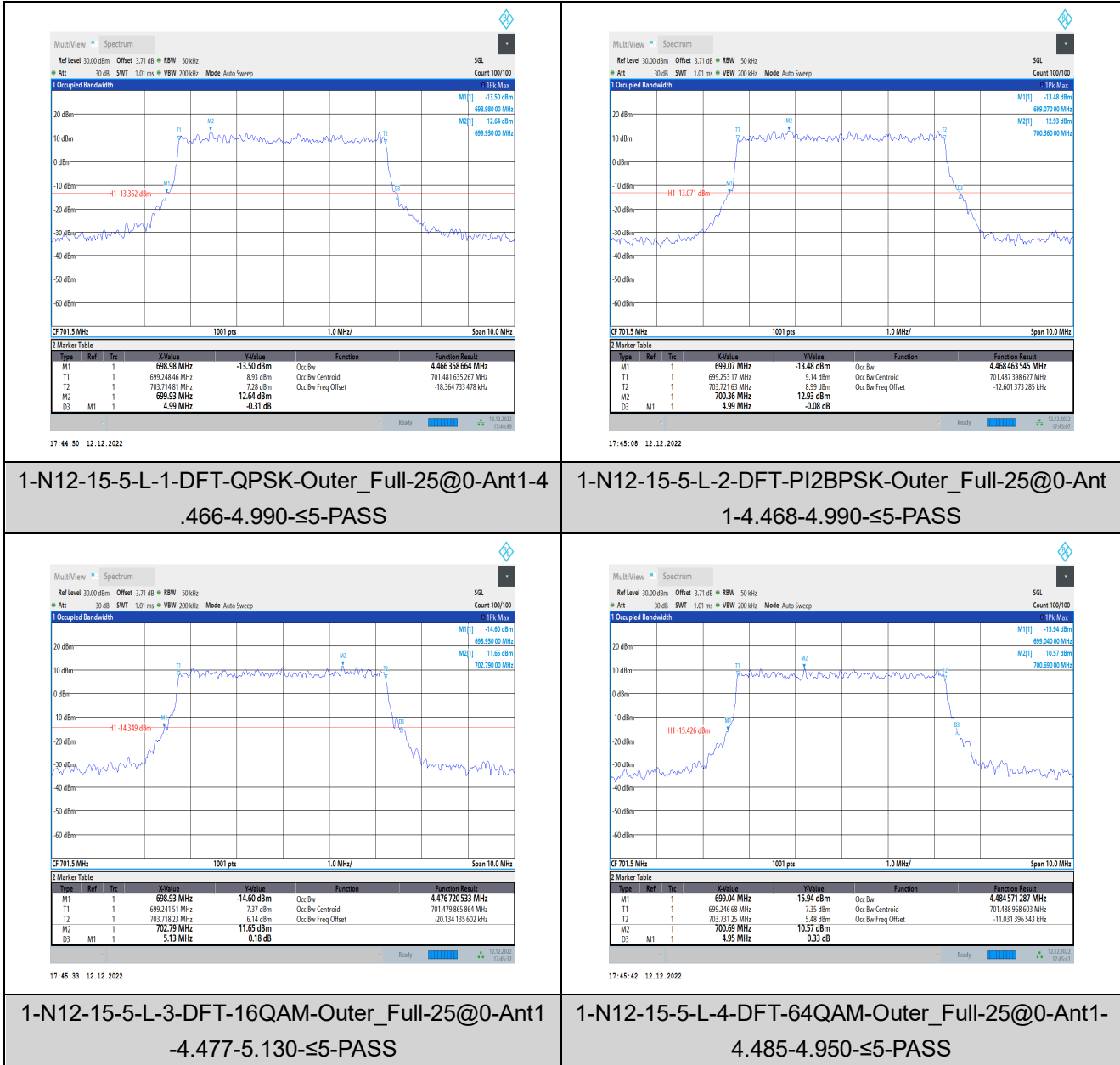
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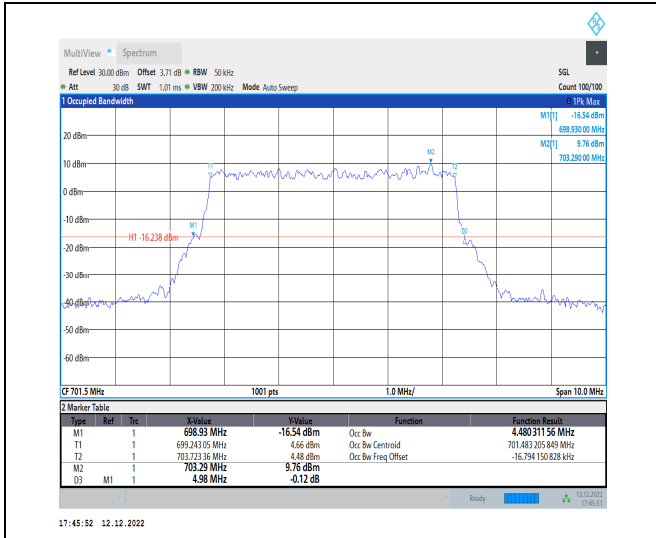
Test Graphs



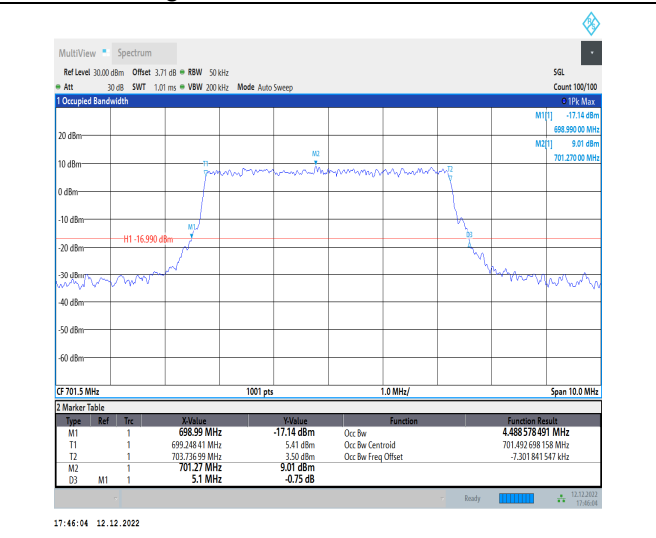
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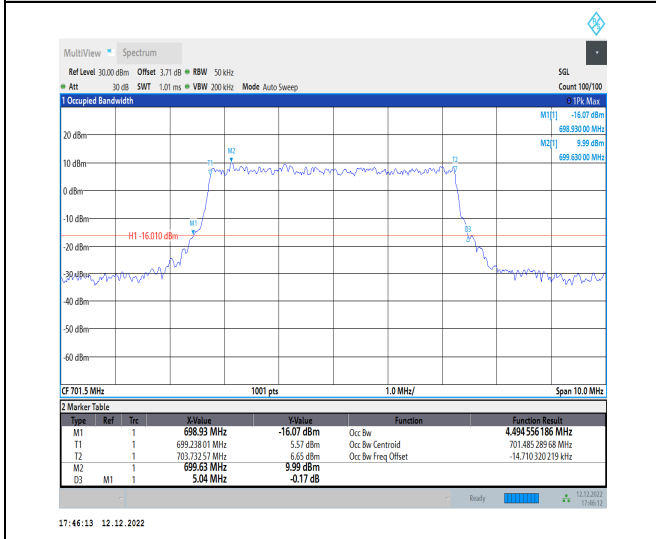
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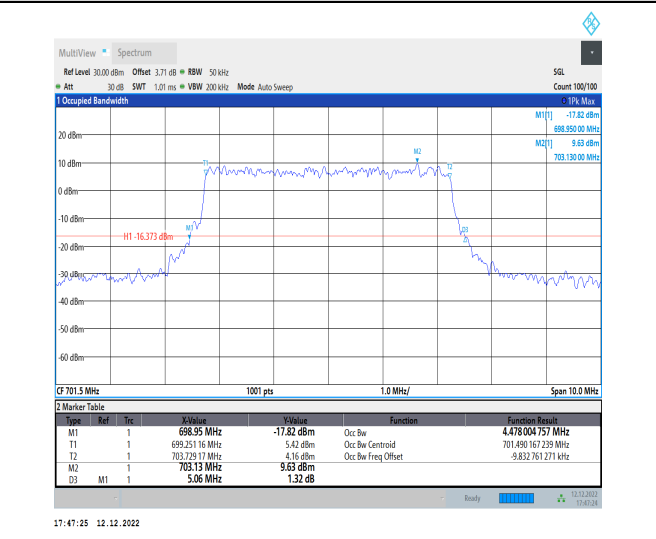
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1-N12-15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant1-4.
489-5.100-≤5-PASS



1-N12-15-5-L-7-CP-16QAM-Outer_Full-25@0-Ant1-
4.495-5.040-≤5-PASS



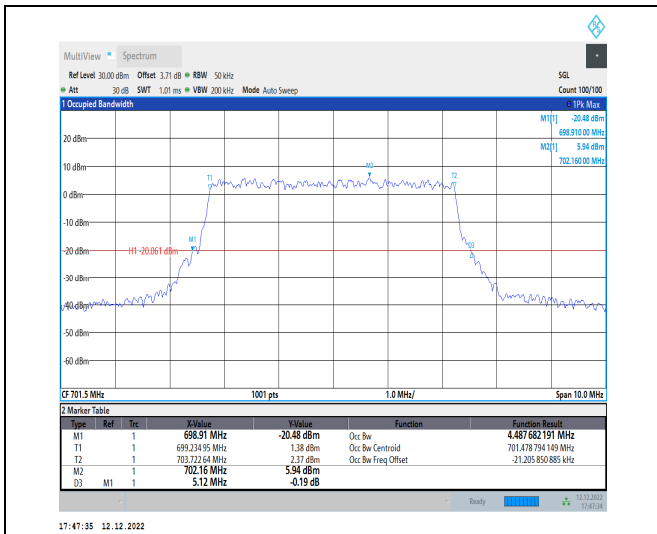
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.478-5.060-≤5-PASS



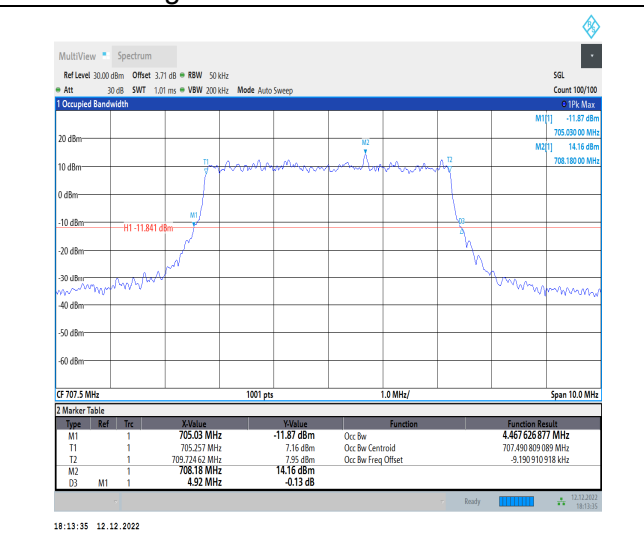
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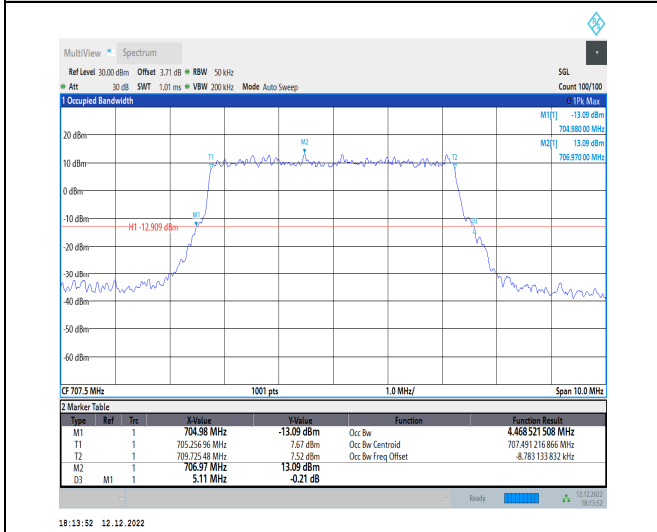
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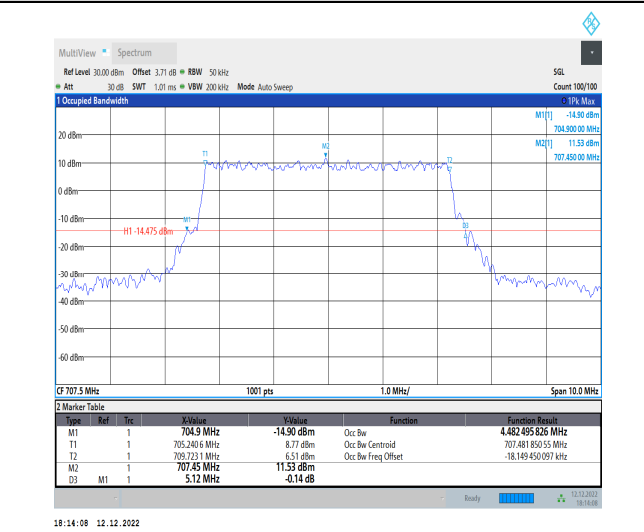
1-N12-15-5-L-9-CP-256QAM-Outer_Full-25@0-Ant1
 -4.488-5.120-≤5-PASS



1-N12-15-5-M-1-DFT-QPSK-Outer_Full-25@0-Ant1-
 4.468-4.920-≤5-PASS



1-N12-15-5-M-2-DFT-P12BPSK-Outer_Full-25@0-An
 t1-4.469-5.110-≤5-PASS



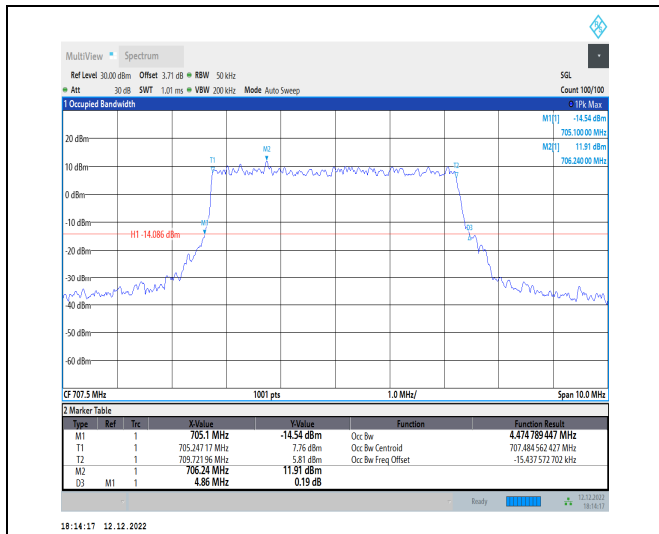
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 -4.482-5.120-≤5-PASS



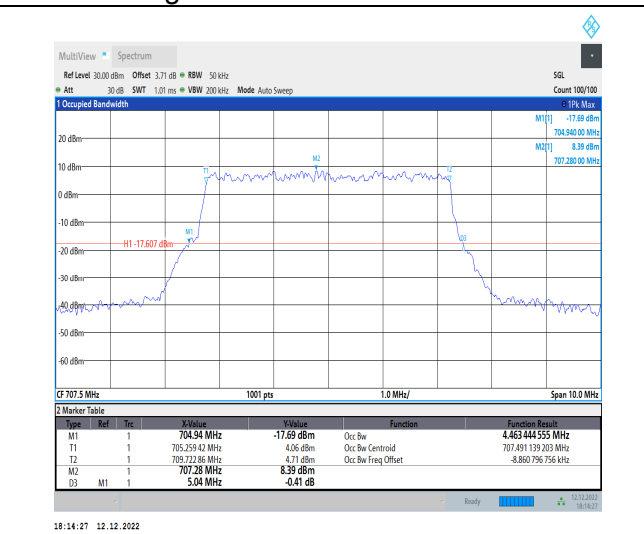
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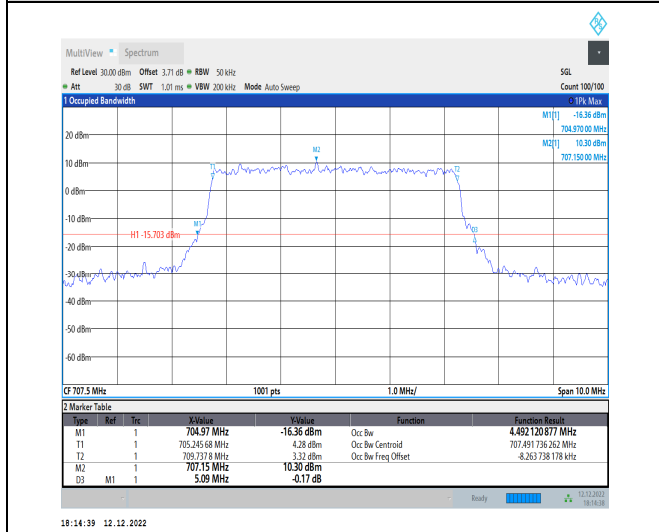
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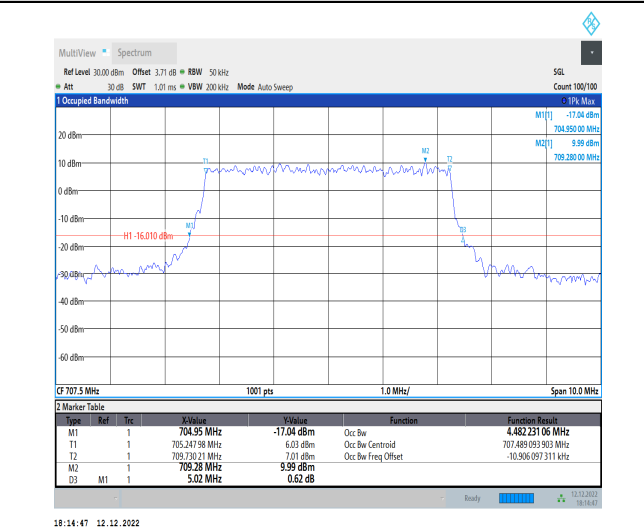
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1-N12-15-5-M-5-DFT-256QAM-Outer_Full-25@0-Ant
 1-4.463-5.040-≤5-PASS

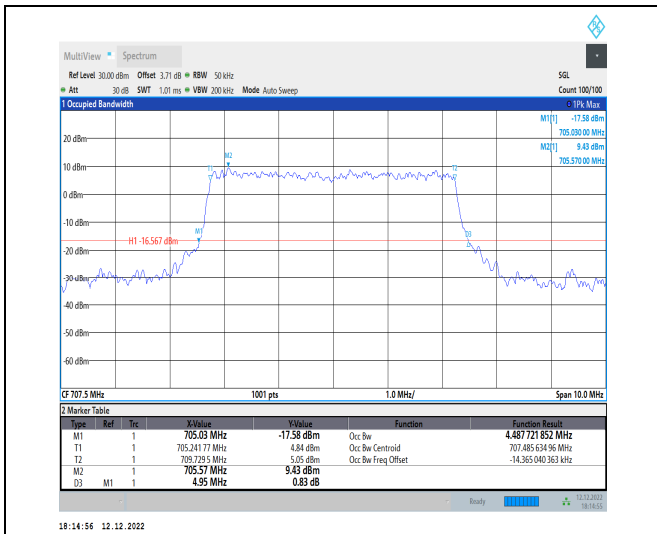


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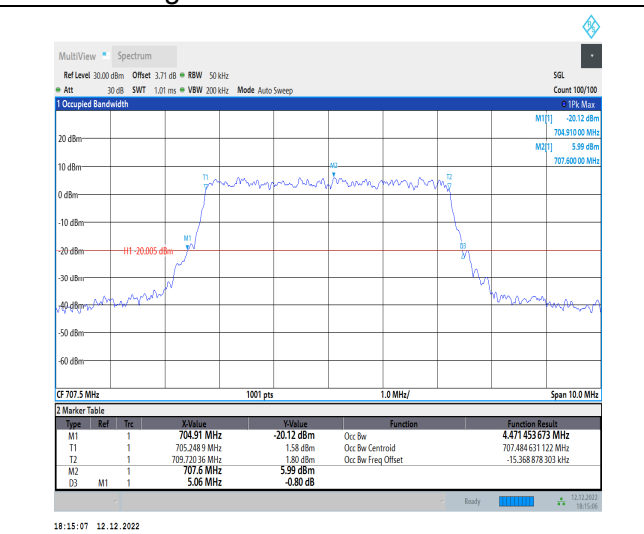


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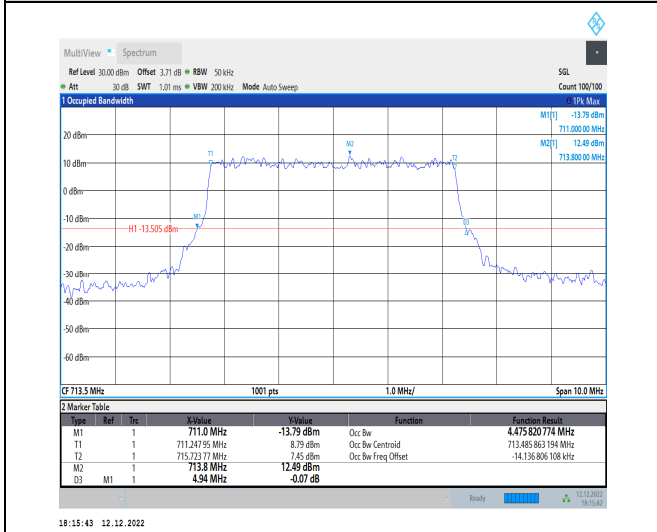




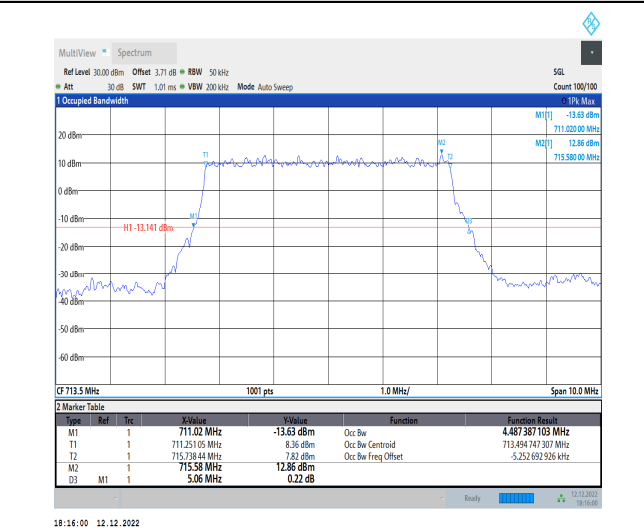
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1-N12-15-5-M-9-CP-256QAM-Outer_Full-25@0-Ant1-4.471-5.060-≤5-PASS



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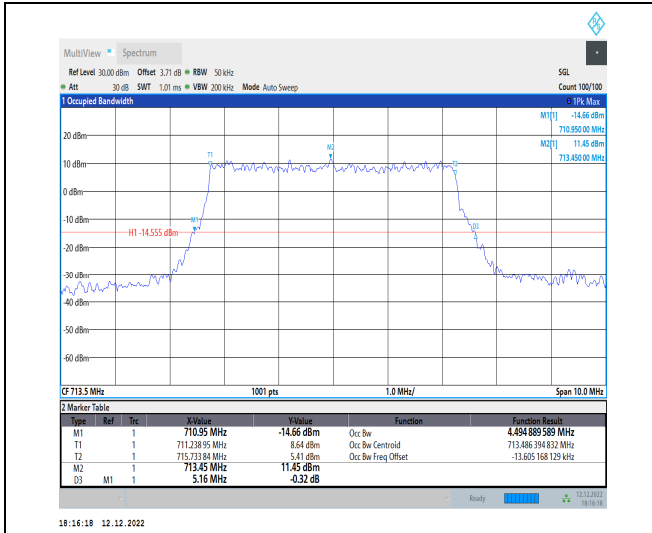
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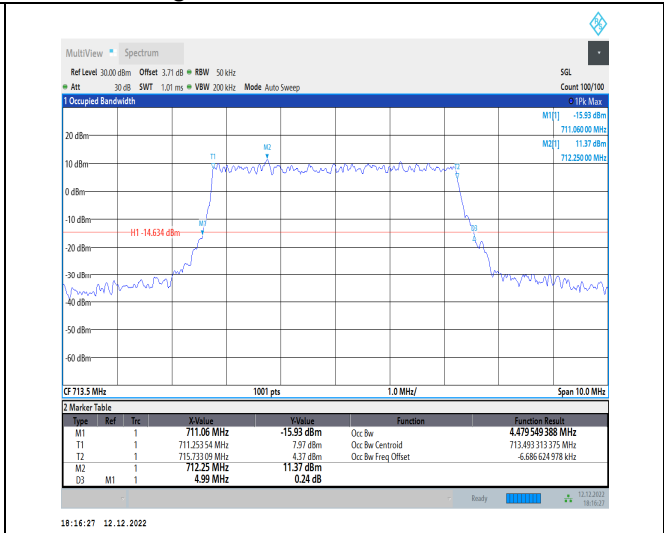
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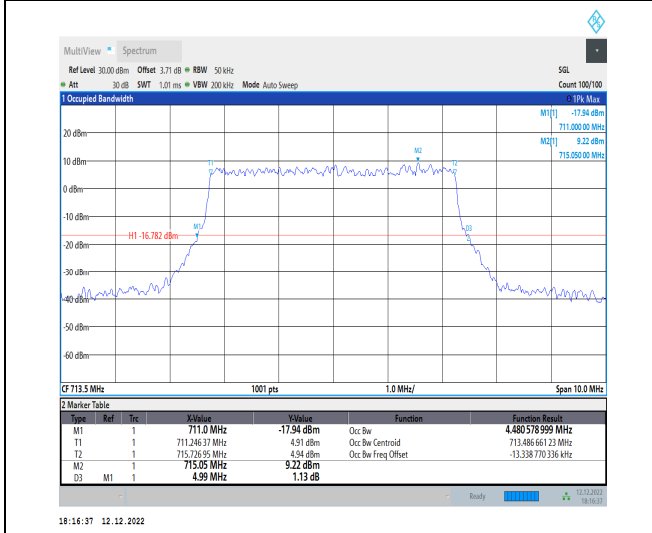
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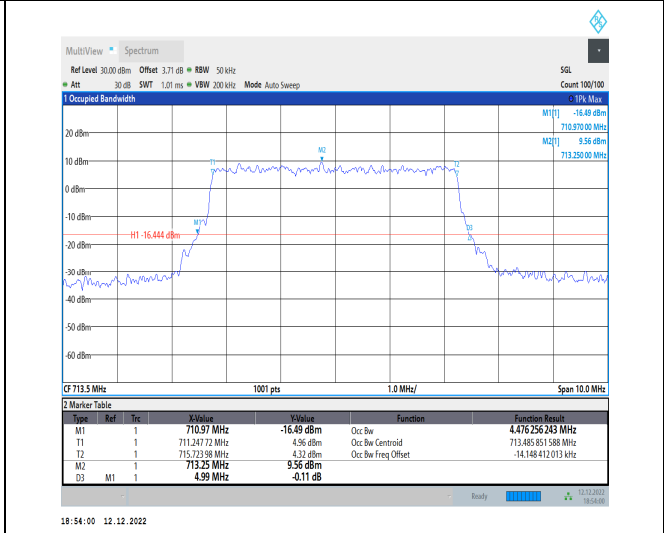
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1-N12-15-5-H-4-DFT-64QAM-Outer_Full-25@0-Ant1
-4.48-4.990-≤5-PASS



1-N12-15-5-H-5-DFT-256QAM-Outer_Full-25@0-Ant
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1-N12-15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant1-4.
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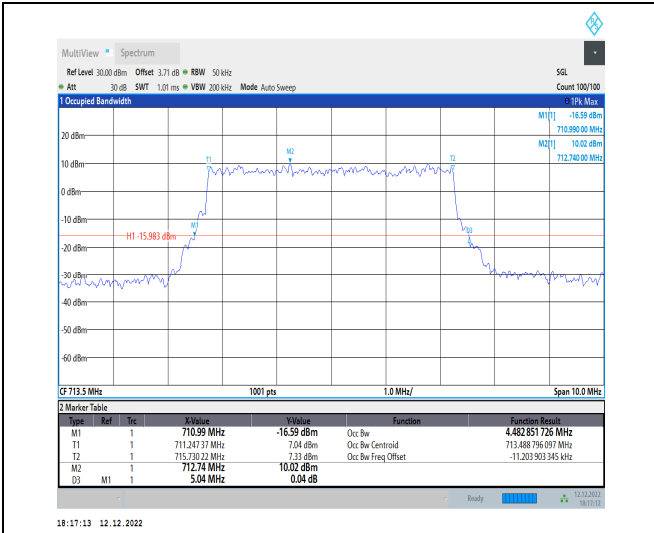


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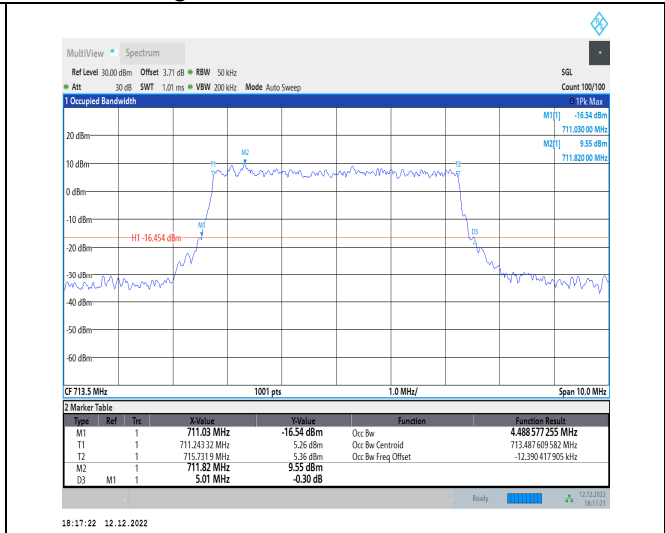
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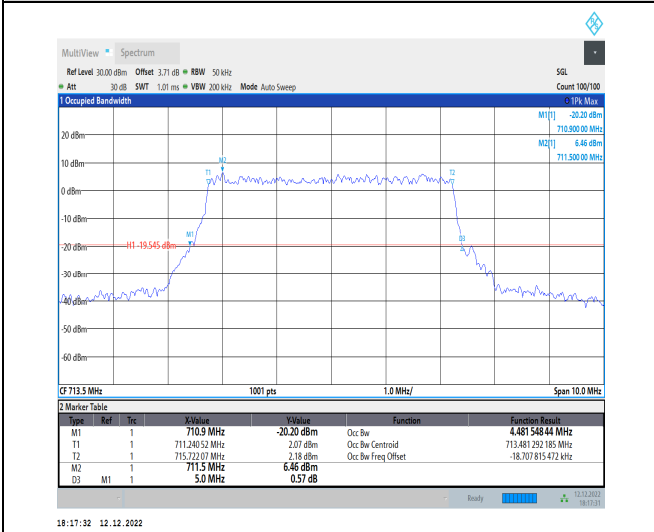
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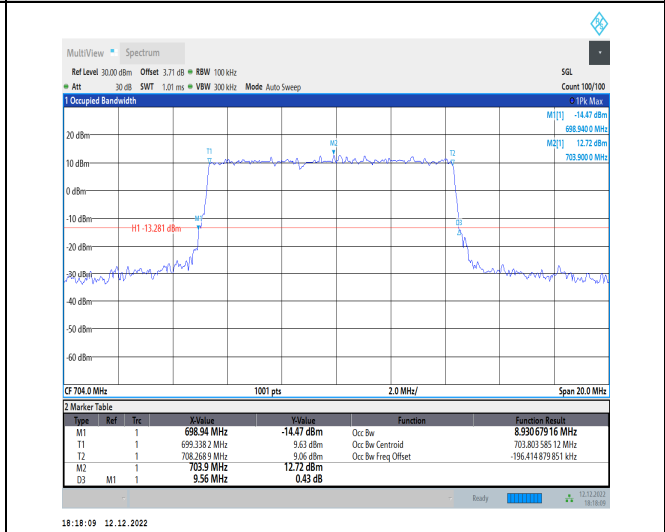
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1-N12-15-5-H-8-CP-64QAM-Outer_Full-25@0-Ant1-4.489-5.010-≤5-PASS



1-N12-15-5-H-9-CP-256QAM-Outer_Full-25@0-Ant1-4.482-5.000-≤5-PASS



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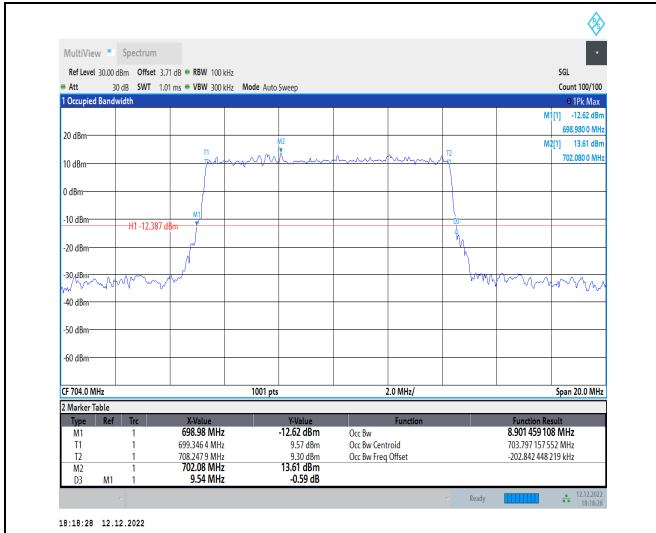


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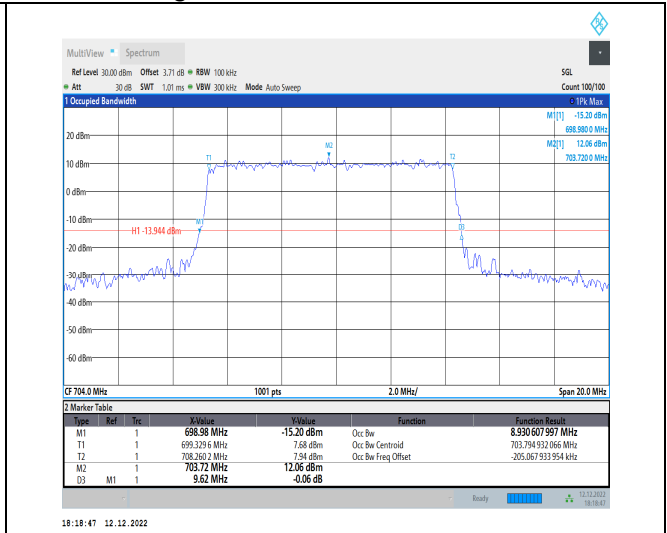
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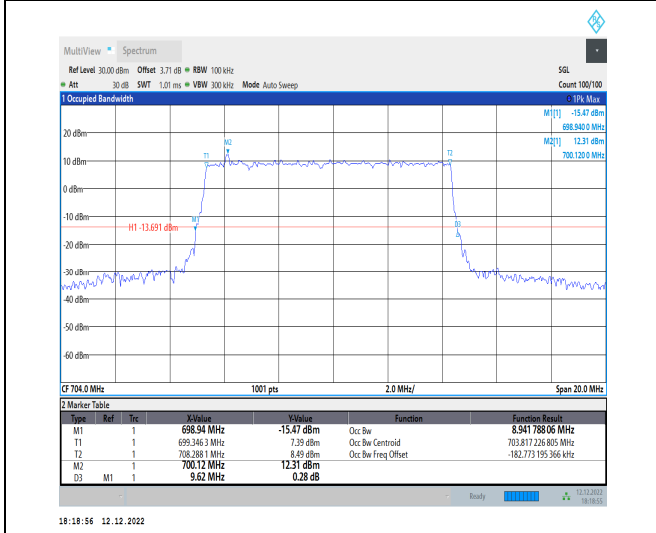
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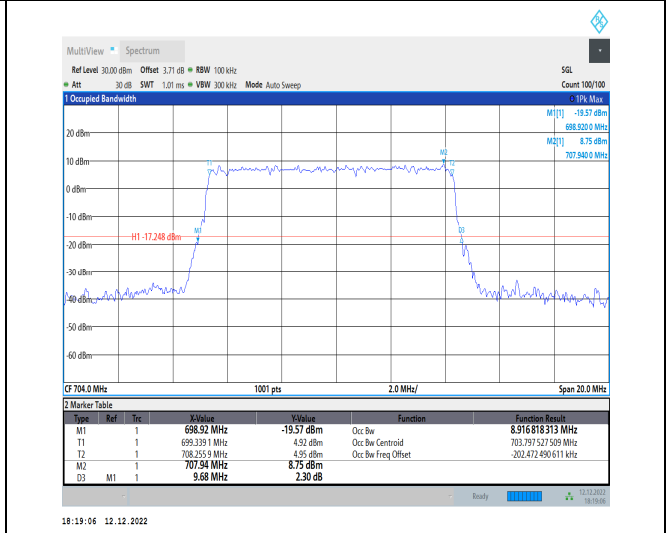
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1-N12-15-10-L-3-DFT-16QAM-Outer_Full-50@0-Ant
1-8.931-9.620-≤10-PASS



1-N12-15-10-L-4-DFT-64QAM-Outer_Full-50@0-Ant
1-8.942-9.620-≤10-PASS



1-N12-15-10-L-5-DFT-256QAM-Outer_Full-50@0-Ant
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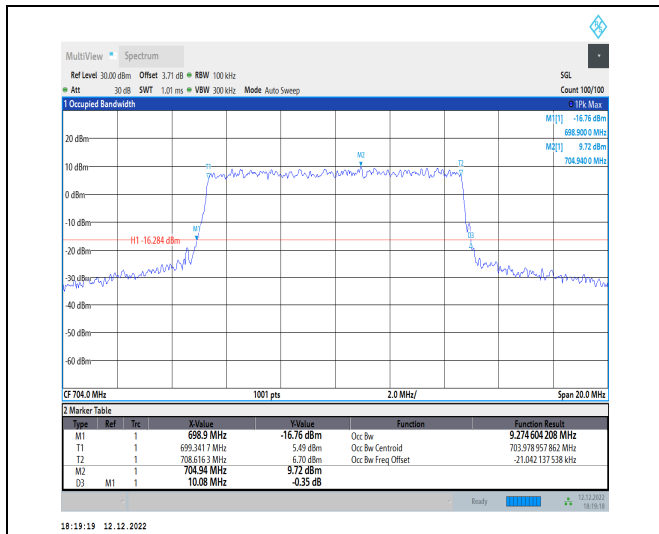


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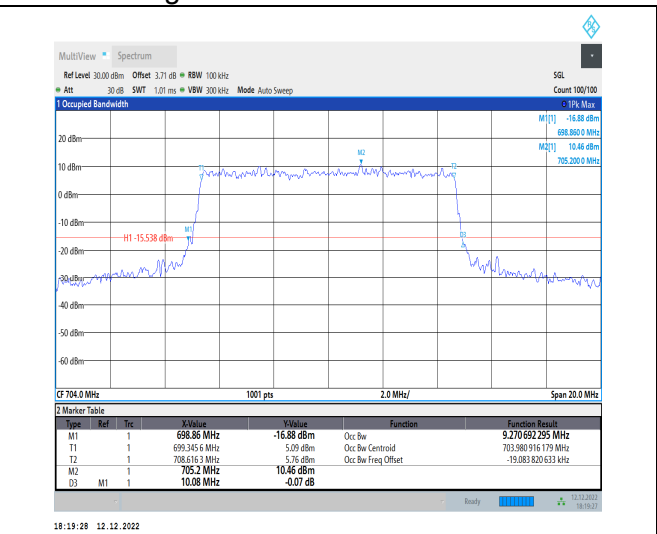
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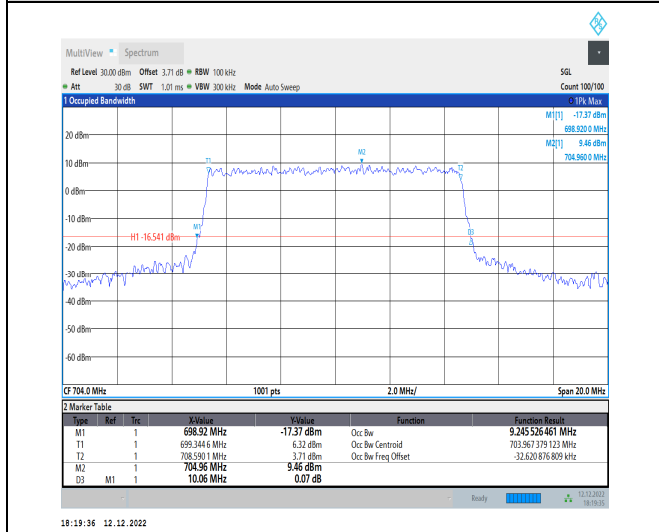
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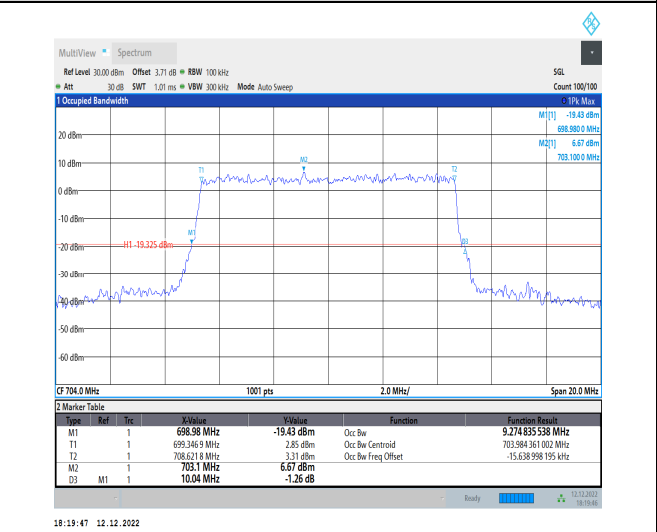
1-N12-15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant1-9.275-10.080-≤10-PASS



1-N12-15-10-L-7-CP-16QAM-Outer_Full-52@0-Ant1-9.271-10.080-≤10-PASS

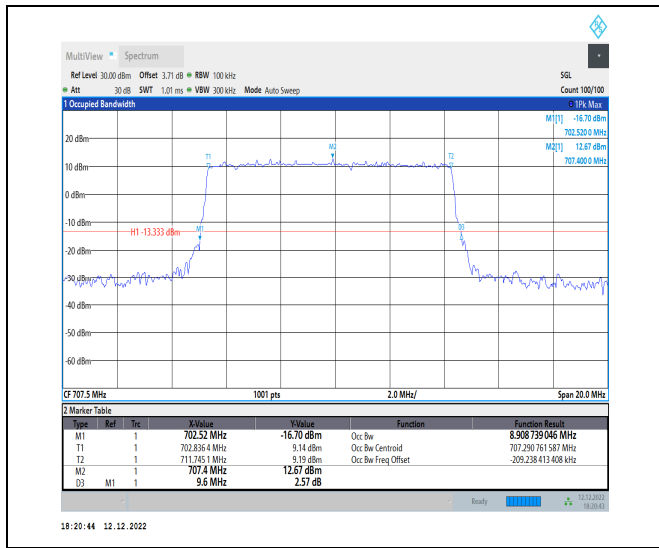


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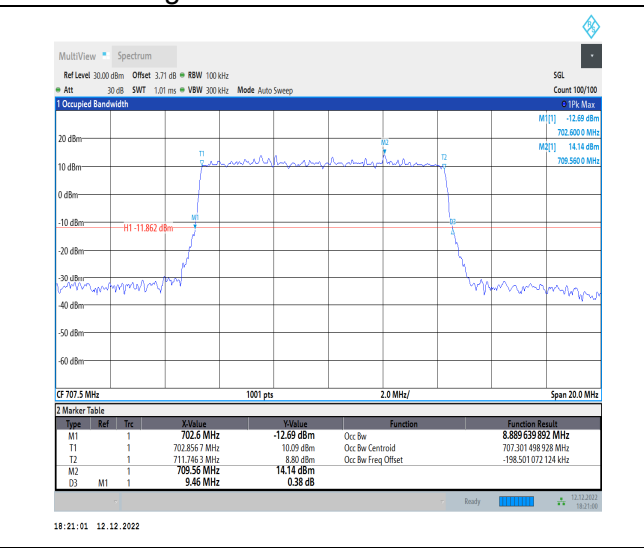


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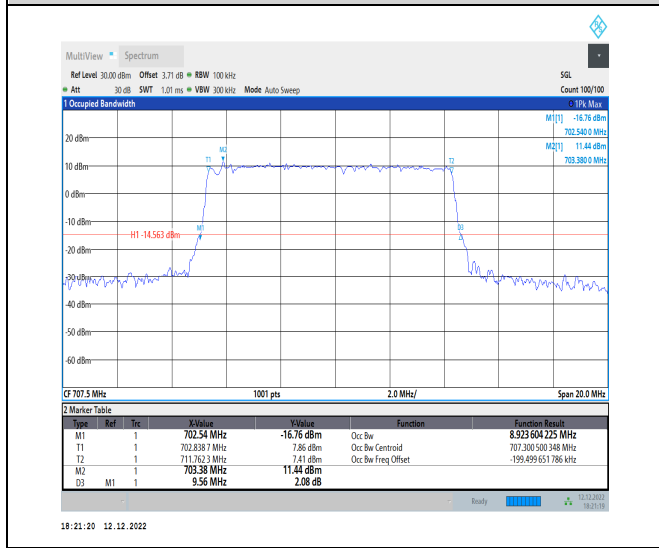




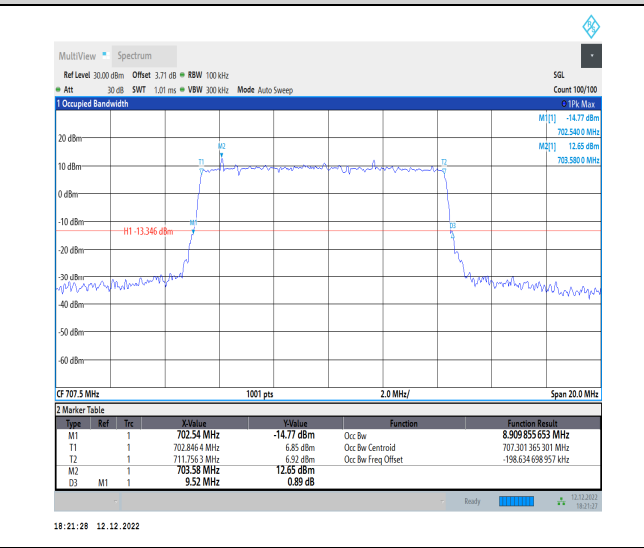
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 -8.909-9.600-≤10-PASS



1-N12-15-10-M-2-DFT-PI2BPSK-Outer_Full-50@0-Ant1-8.89-9.460-≤10-PASS



1-N12-15-10-M-3-DFT-16QAM-Outer_Full-50@0-Ant1
 1-8.924-9.560-≤10-PASS



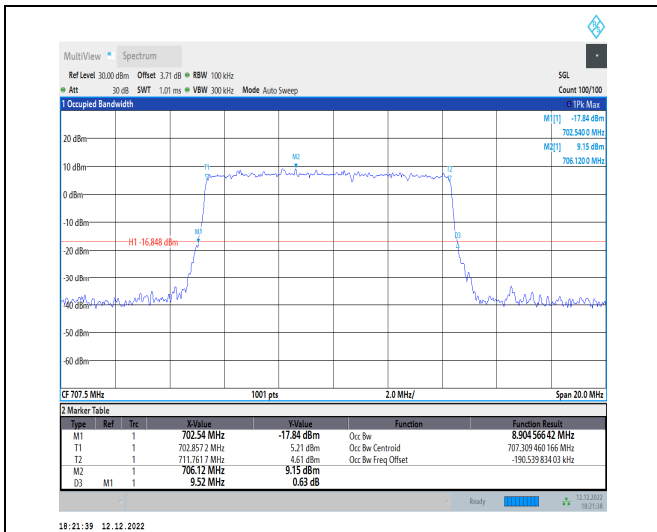
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 1-8.91-9.520-≤10-PASS



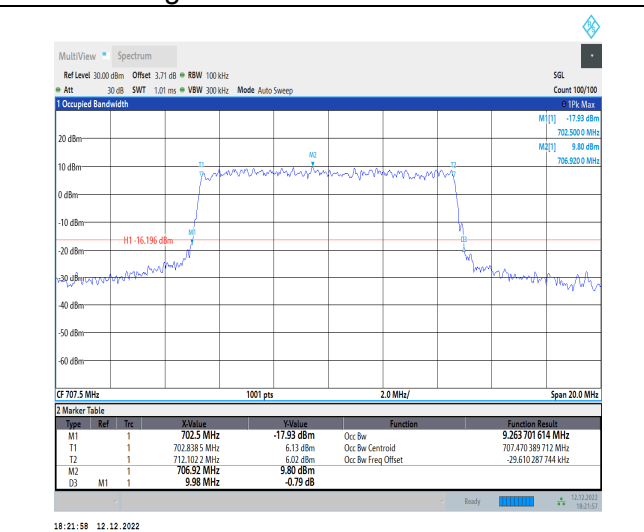
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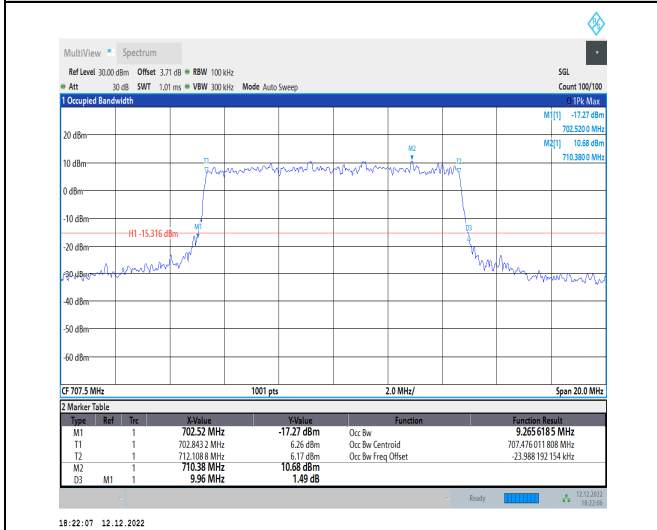
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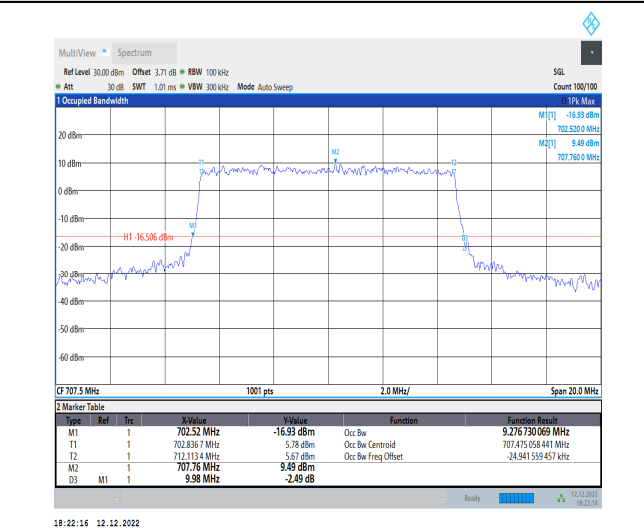
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 nt1-8.905-9.520-≤10-PASS



1-N12-15-10-M-6-CP-QPSK-Outer_Full-52@0-Ant1-
 9.264-9.980-≤10-PASS

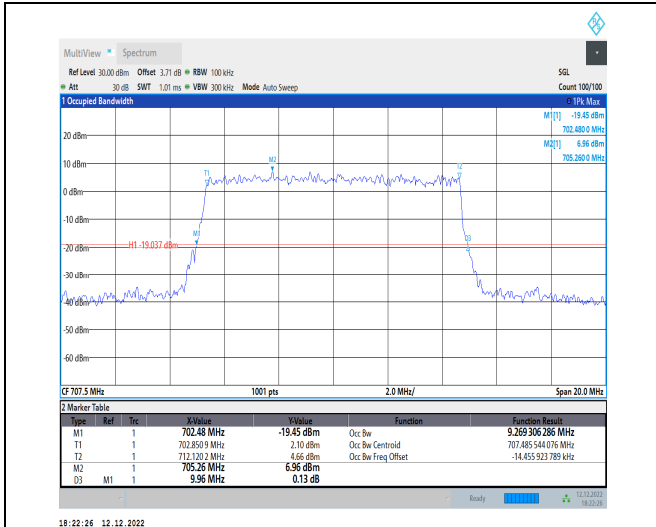


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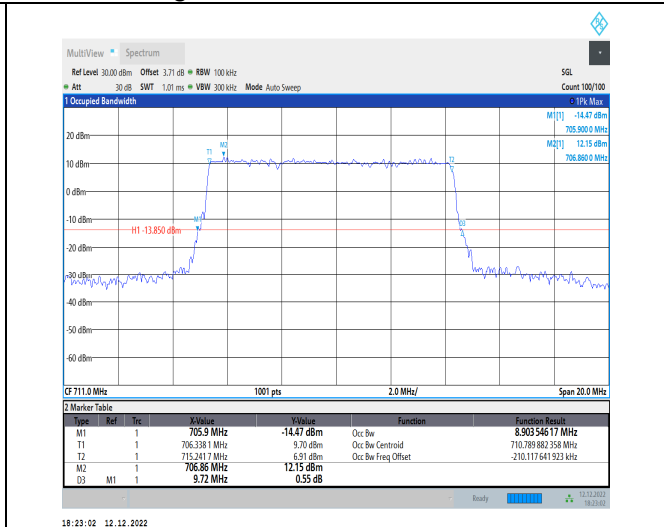


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 -9.277-9.980-≤10-PASS

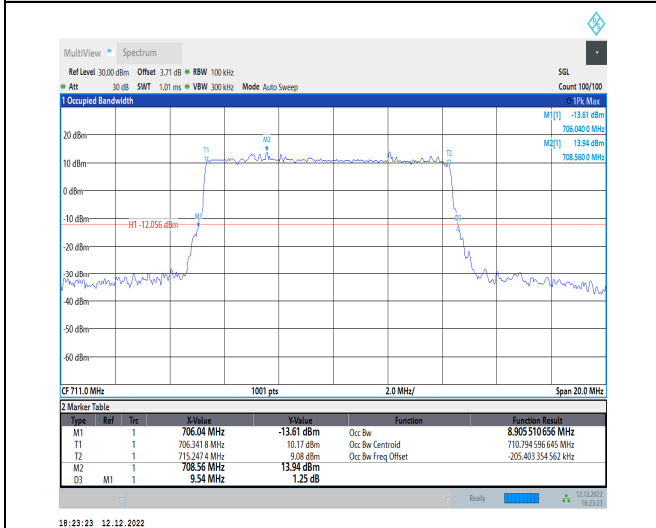




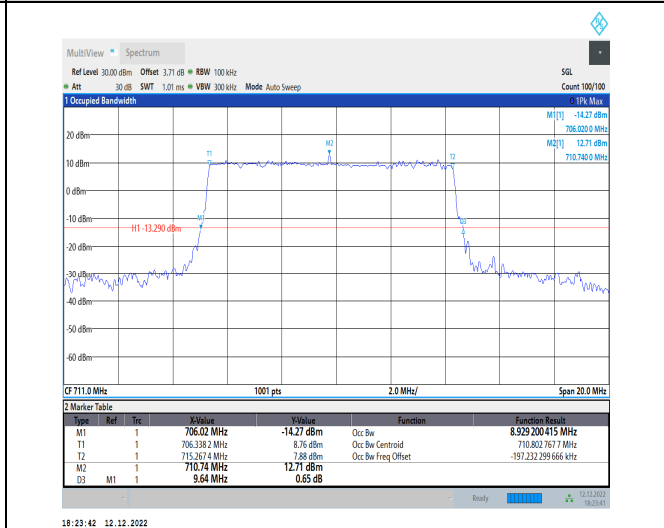
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t1-9.269-9.960-≤10-PASS



1-N12-15-10-H-1-DFT-QPSK-Outer_Full-50@0-Ant1
-8.904-9.720-≤10-PASS



1-N12-15-10-H-2-DFT-PI2BPSK-Outer_Full-50@0-A
nt1-8.906-9.540-≤10-PASS



1-N12-15-10-H-3-DFT-16QAM-Outer_Full-50@0-Ant
1-8.929-9.640-≤10-PASS

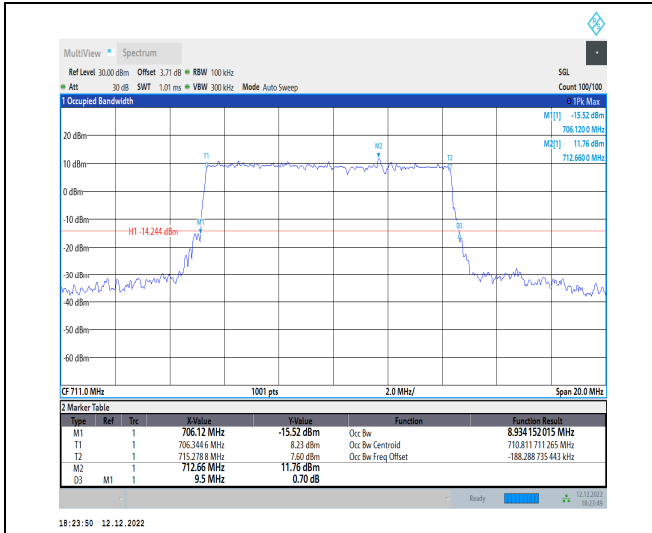


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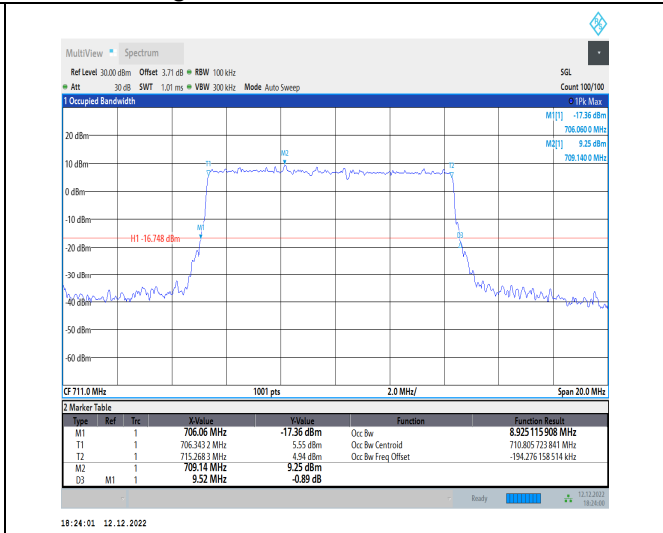
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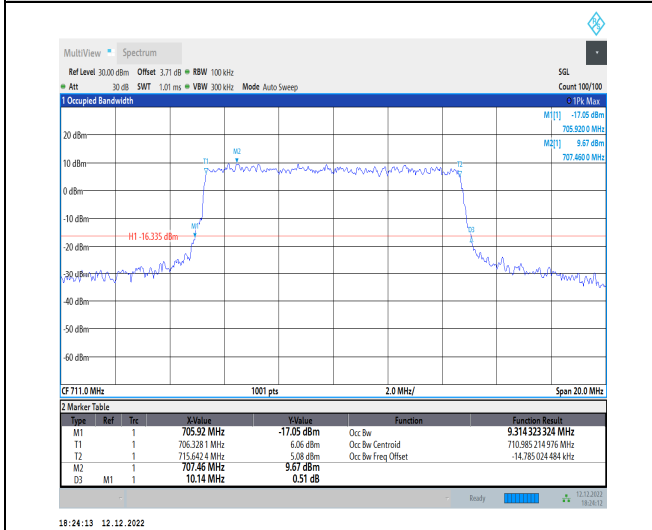
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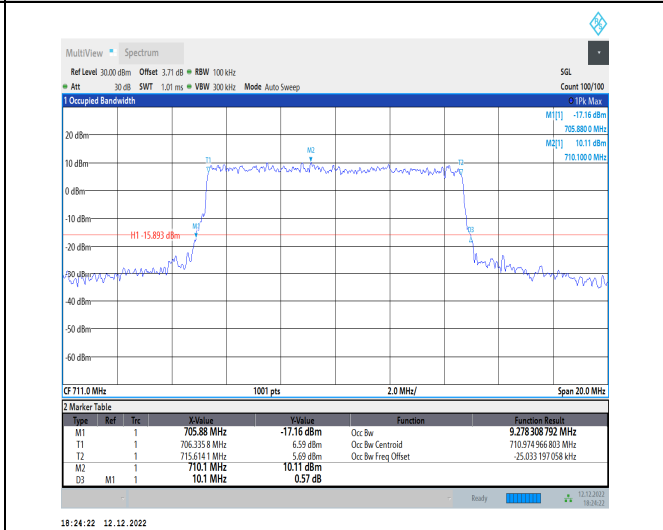
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1-8.934-9.500-≤10-PASS



1-N12-15-10-H-5-DFT-256QAM-Outer_Full-50@0-A
nt1-8.925-9.520-≤10-PASS



1-N12-15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant1
9.314-10.140-≤10-PASS



1-N12-15-10-H-7-CP-16QAM-Outer_Full-52@0-Ant1
-9.278-10.100-≤10-PASS

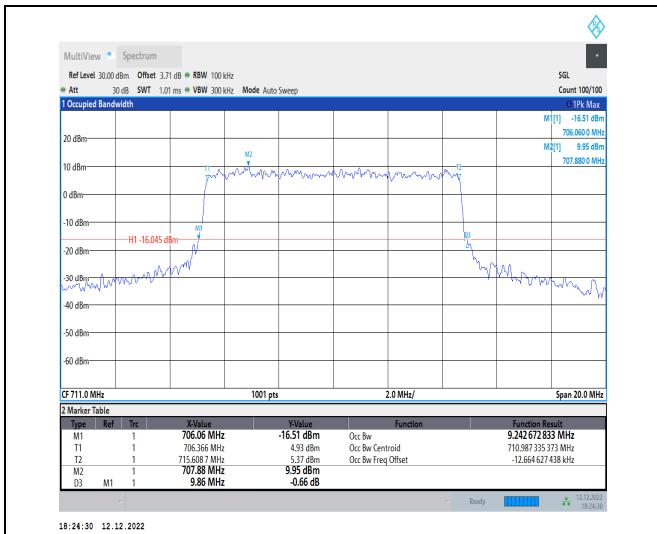


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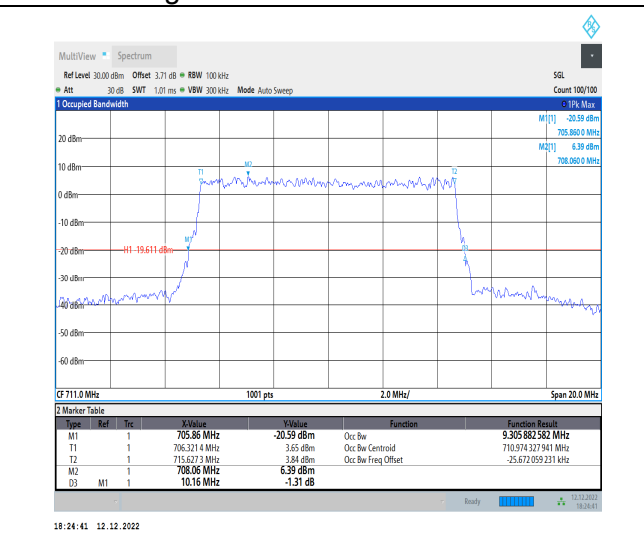
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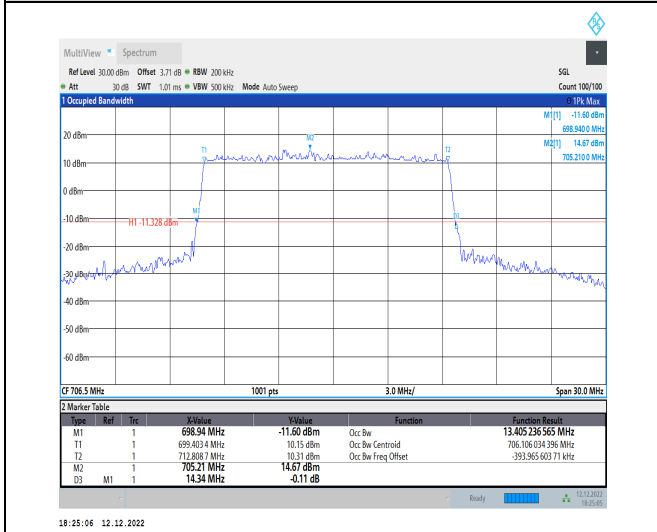
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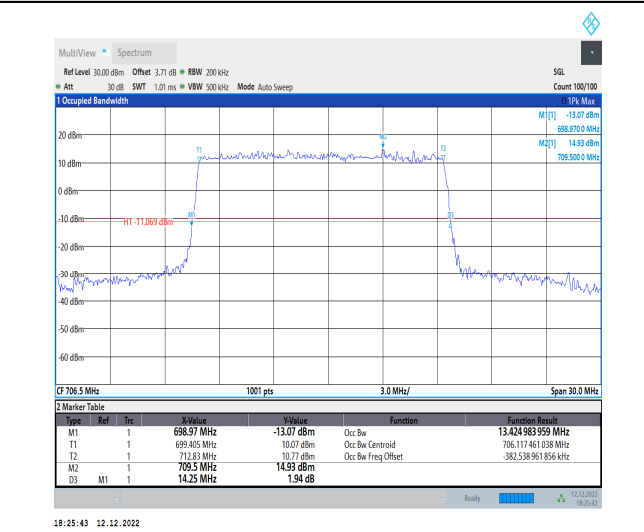
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 -9.243-9.860-≤10-PASS



1-N12-15-10-H-9-CP-256QAM-Outer_Full-52@0-Ant
 1-9.306-10.160-≤10-PASS



1-N12-15-15-L-1-DFT-QPSK-Outer_Full-75@0-Ant1-
 13.405-14.340-≤15-PASS

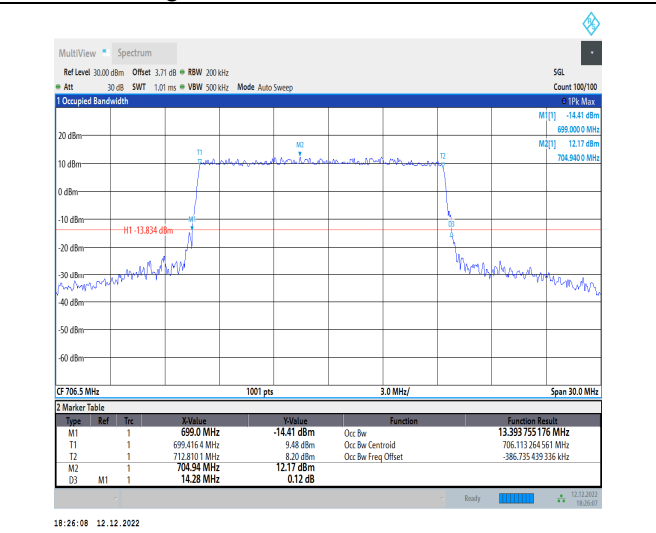
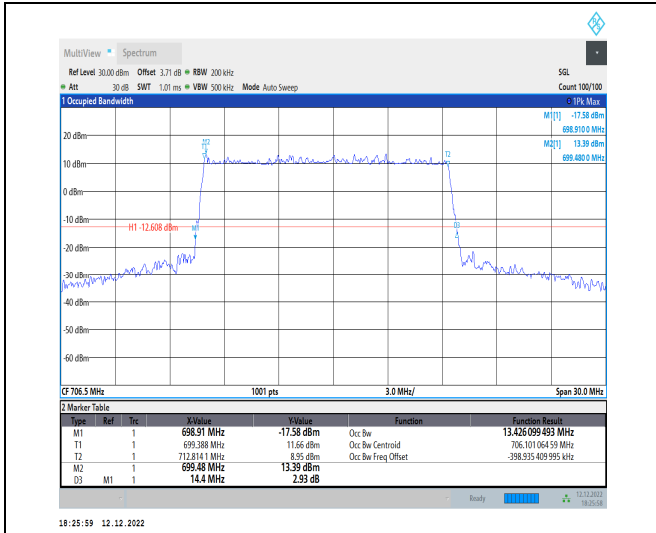


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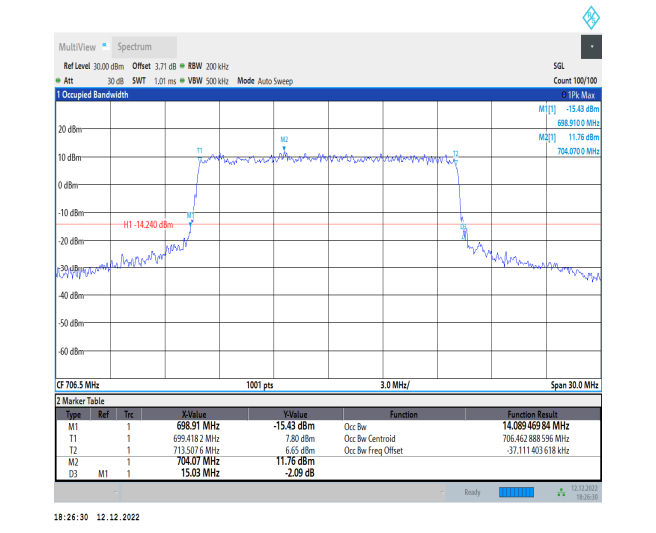
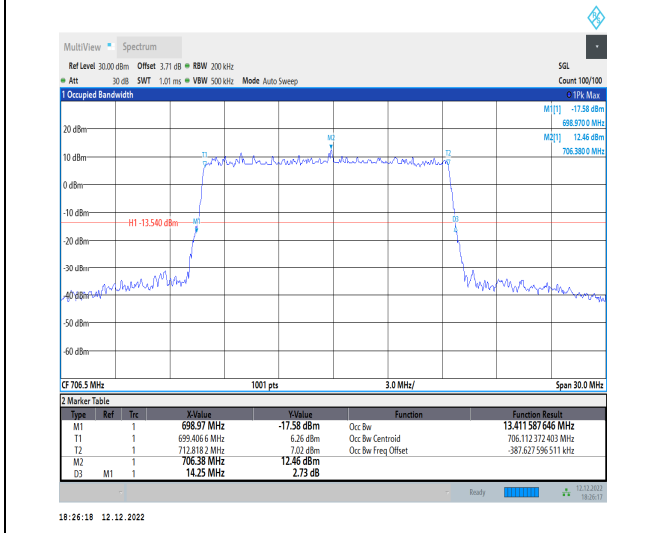
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1-N12-15-15-L-3-DFT-16QAM-Outer_Full-75@0-Ant
t1-13.426-14.400-≤15-PASS

1-N12-15-15-L-4-DFT-64QAM-Outer_Full-75@0-Ant
t1-13.394-14.280-≤15-PASS



1-N12-15-15-L-5-DFT-256QAM-Outer_Full-75@0-An
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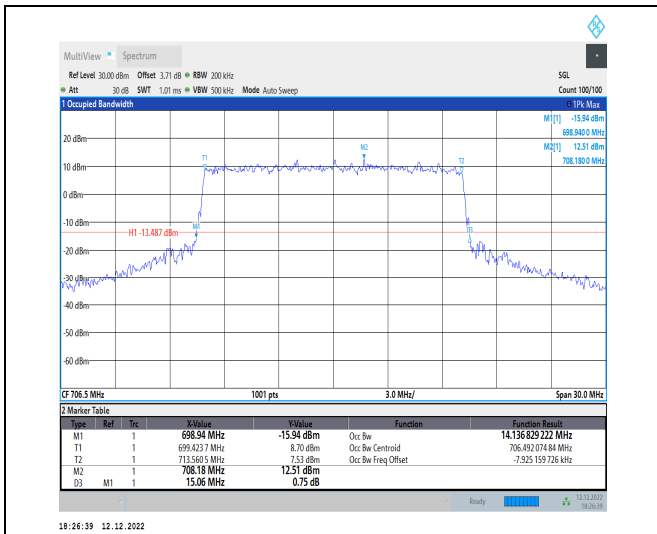
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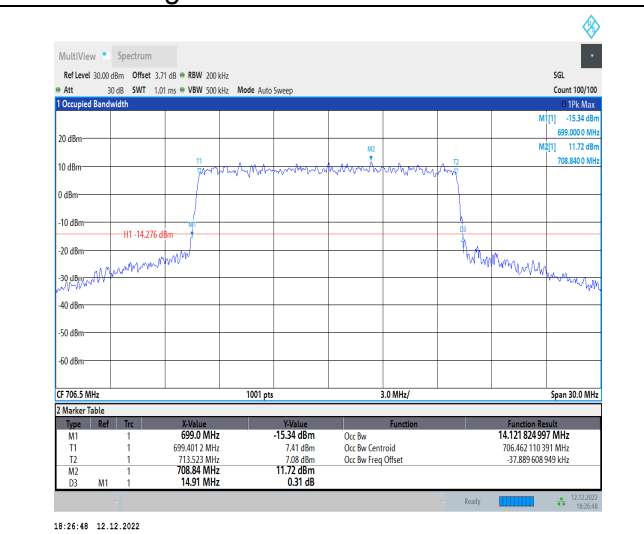
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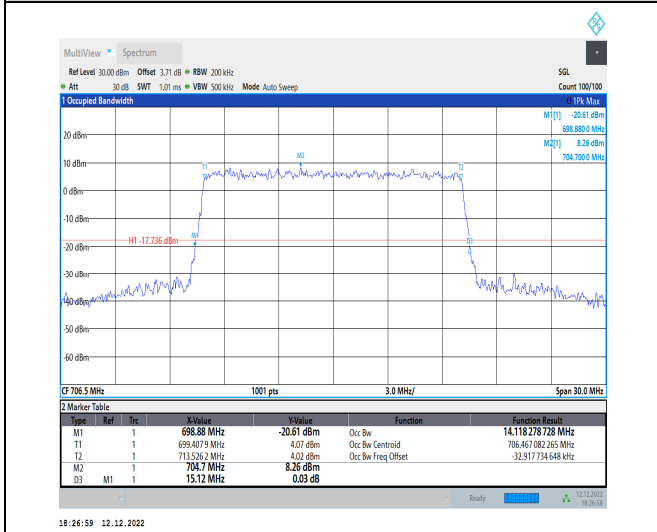
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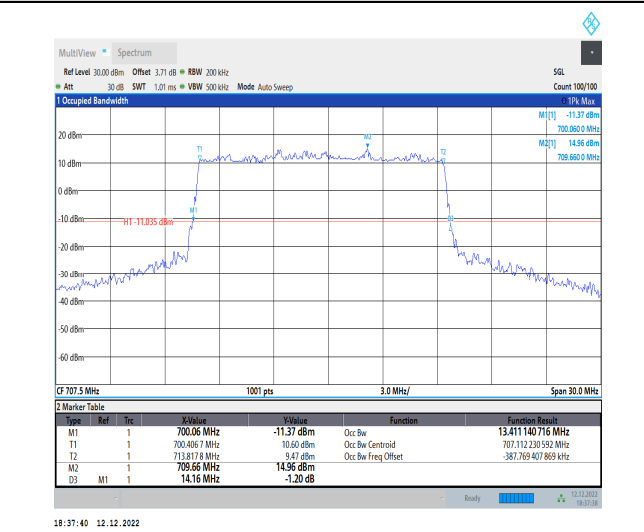
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 -14.137-15.060-≤15-PASS



1-N12-15-15-L-8-CP-64QAM-Outer_Full-79@0-Ant1-
 14.122-14.910-≤15-PASS



1-N12-15-15-L-9-CP-256QAM-Outer_Full-79@0-Ant
 1-14.118-15.120-≤15-PASS

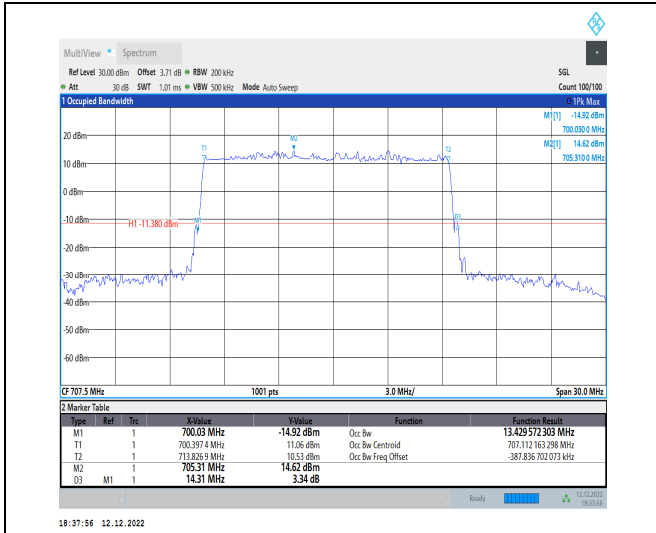


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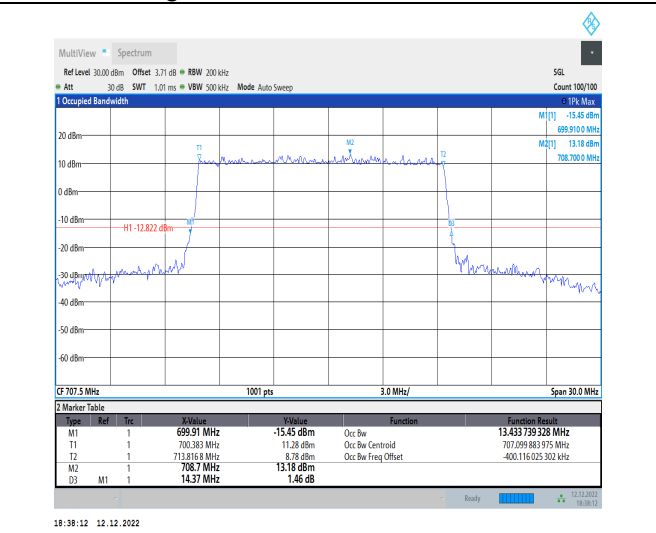


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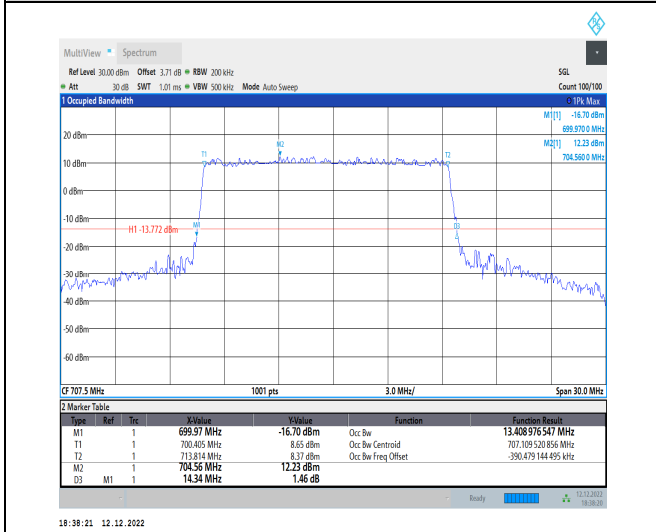
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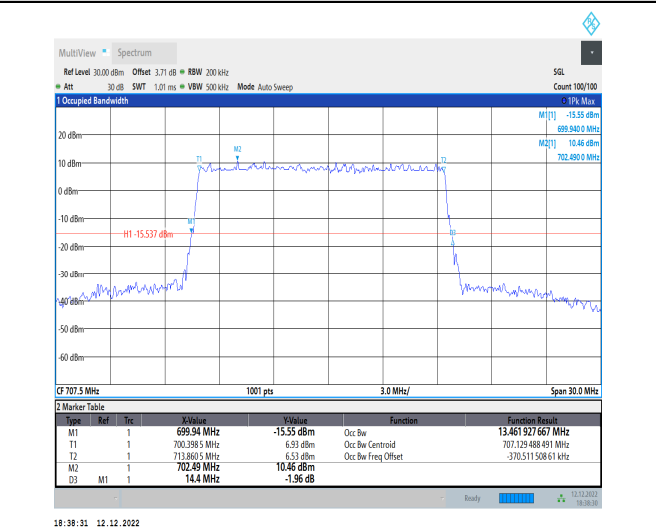
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nt1-13.43-14.310-≤15-PASS



1-N12-15-15-M-3-DFT-16QAM-Outer_Full-75@0-Ant
1-13.434-14.370-≤15-PASS



1-N12-15-15-M-4-DFT-64QAM-Outer_Full-75@0-Ant
1-13.409-14.340-≤15-PASS



1-N12-15-15-M-5-DFT-256QAM-Outer_Full-75@0-A
nt1-13.462-14.400-≤15-PASS

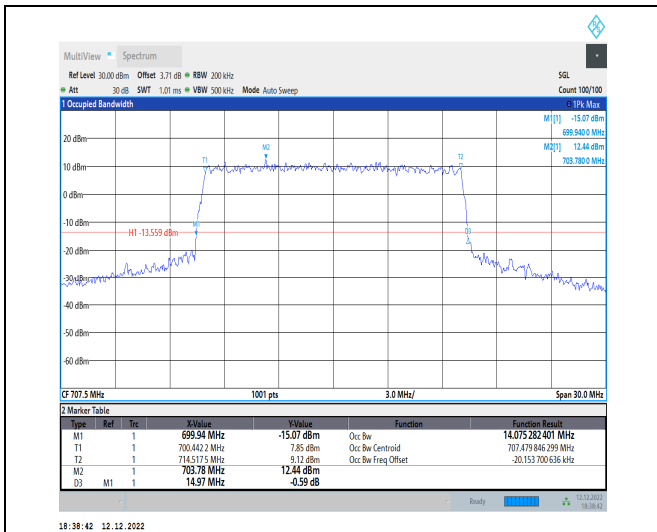


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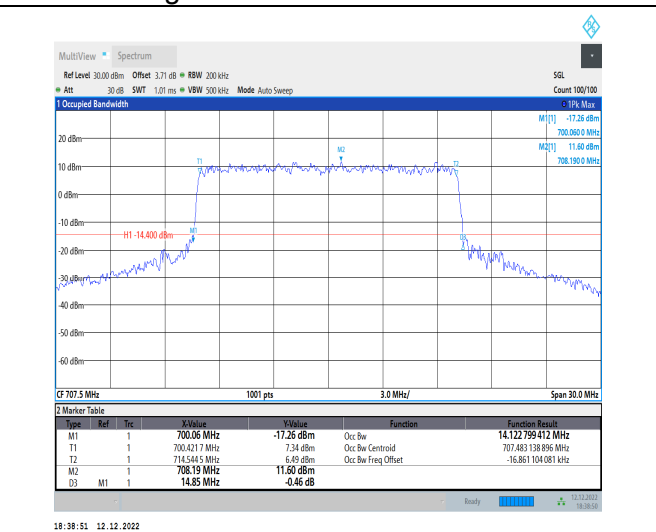
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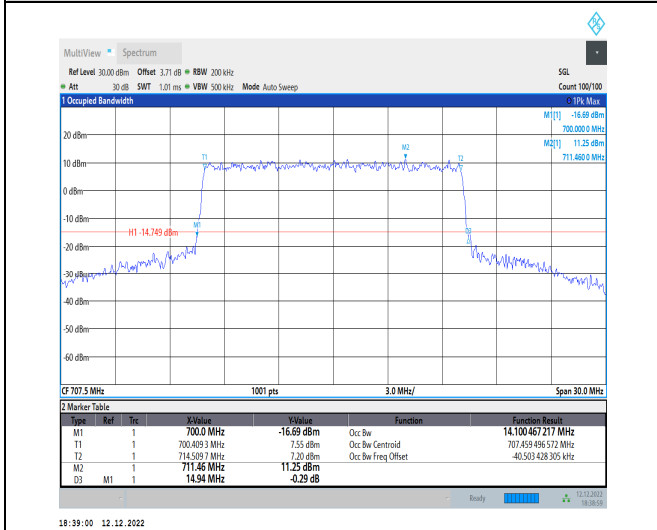
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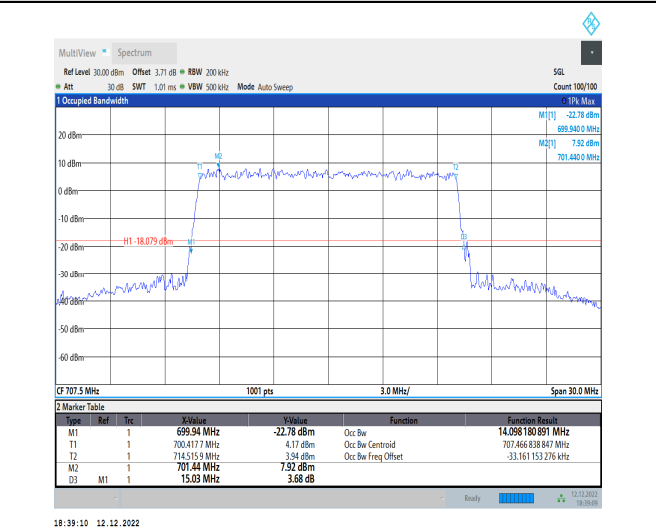
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1-N12-15-15-M-7-CP-16QAM-Outer_Full-79@0-Ant1-14.123-14.850-≤15-PASS



1-N12-15-15-M-8-CP-64QAM-Outer_Full-79@0-Ant1-14.1-14.940-≤15-PASS



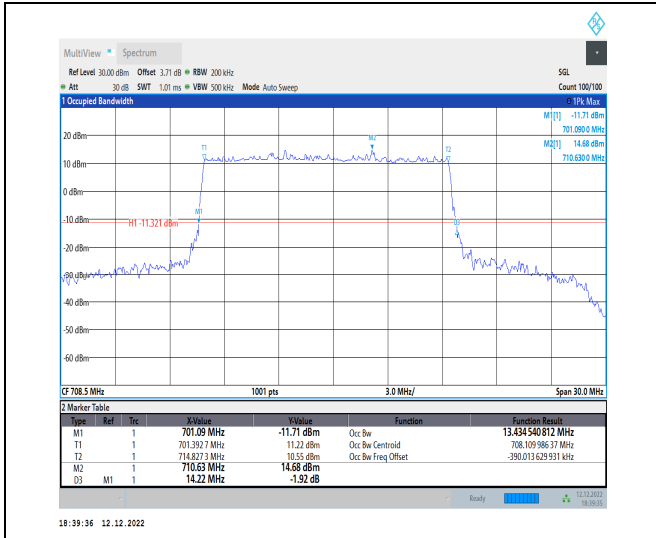
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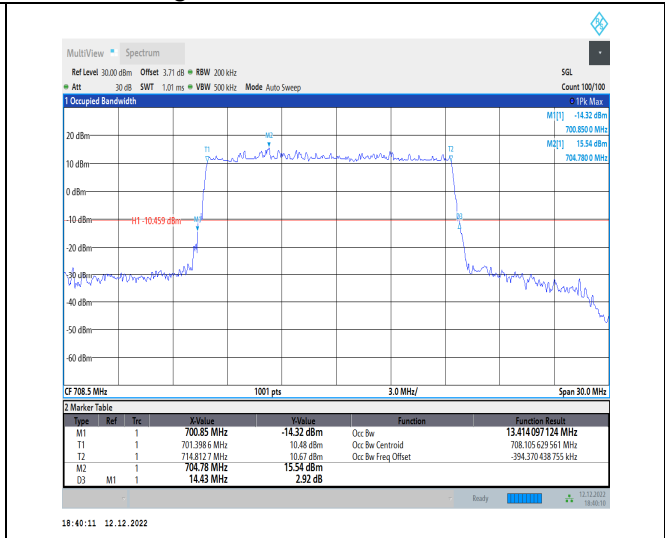
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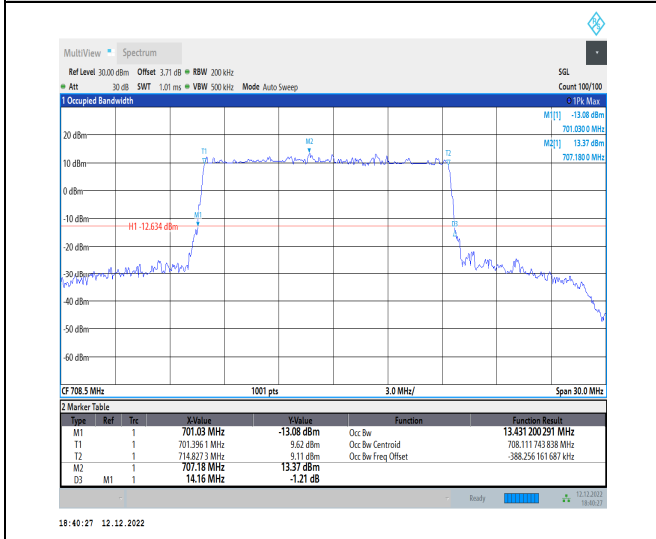
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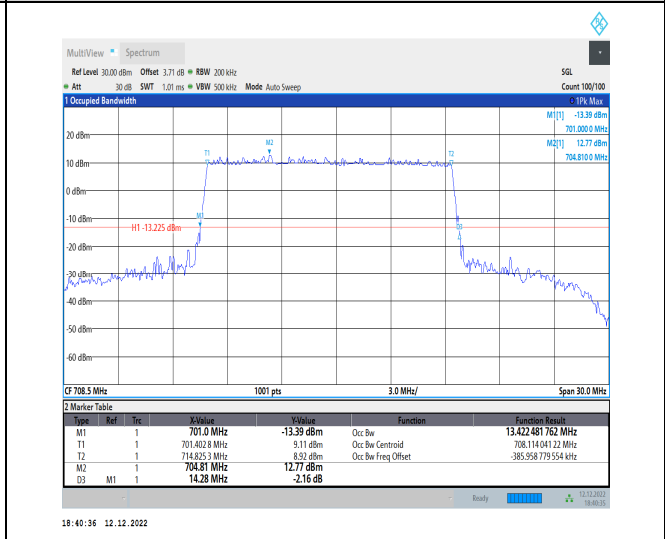
1-N12-15-15-H-1-DFT-QPSK-Outer_Full-75@0-Ant1
-13.435-14.220≤15-PASS



1-N12-15-15-H-2-DFT-PI2BPSK-Outer_Full-75@0-Ant1
-13.414-14.430≤15-PASS



1-N12-15-15-H-3-DFT-16QAM-Outer_Full-75@0-Ant1
1-13.431-14.160≤15-PASS



1-N12-15-15-H-4-DFT-64QAM-Outer_Full-75@0-Ant1
1-13.422-14.280≤15-PASS

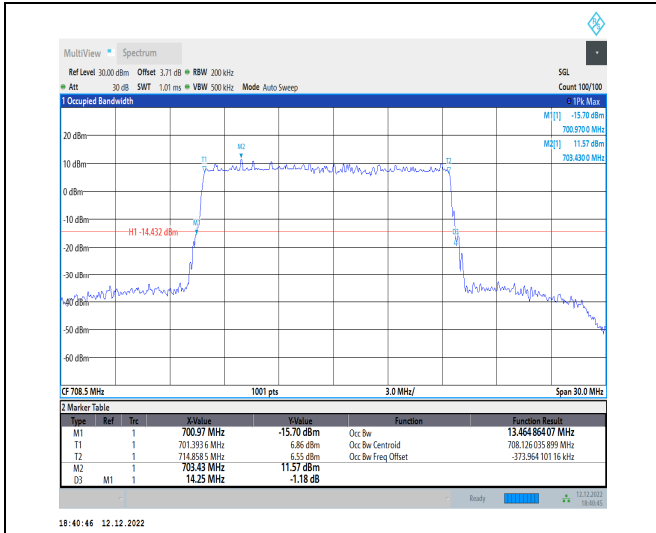


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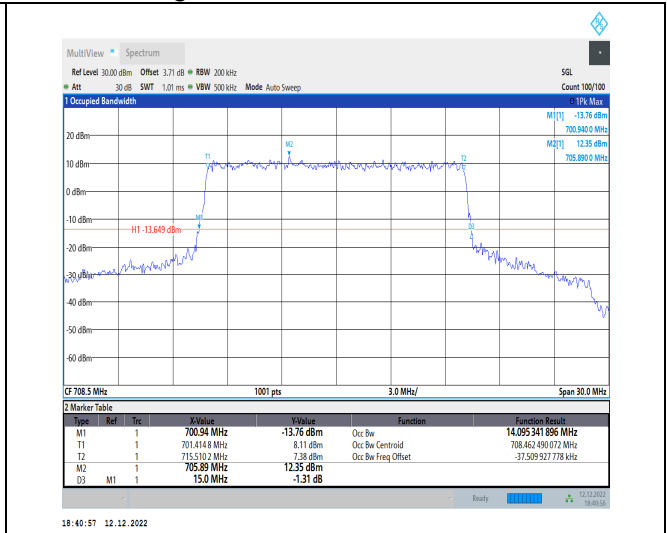
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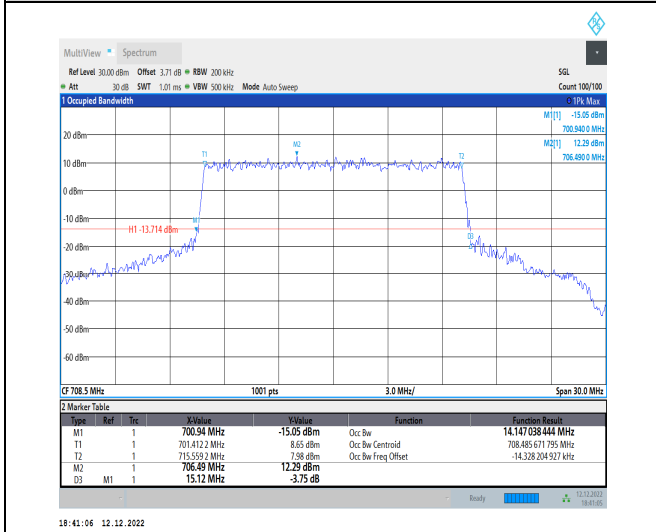
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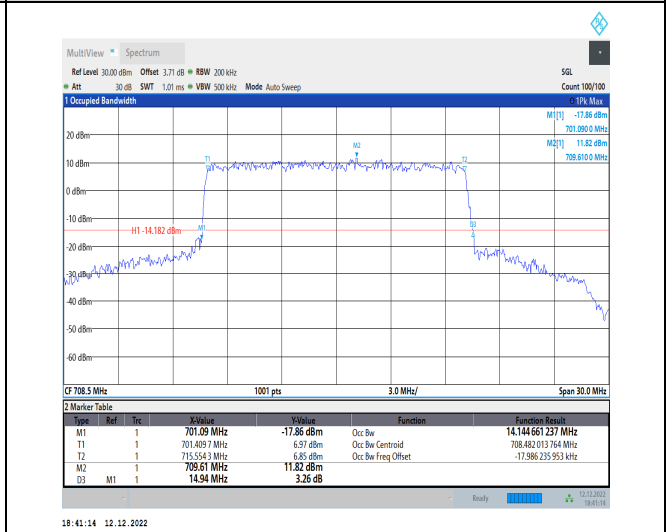
1-N12-15-15-H-5-DFT-256QAM-Outer_Full-75@0-A
nt1-13.465-14.250-≤15-PASS



1-N12-15-15-H-6-CP-QPSK-Outer_Full-79@0-Ant1-
14.095-15.000-≤15-PASS



1-N12-15-15-H-7-CP-16QAM-Outer_Full-79@0-Ant1
-14.147-15.120-≤15-PASS



1-N12-15-15-H-8-CP-64QAM-Outer_Full-79@0-Ant1
-14.145-14.940-≤15-PASS

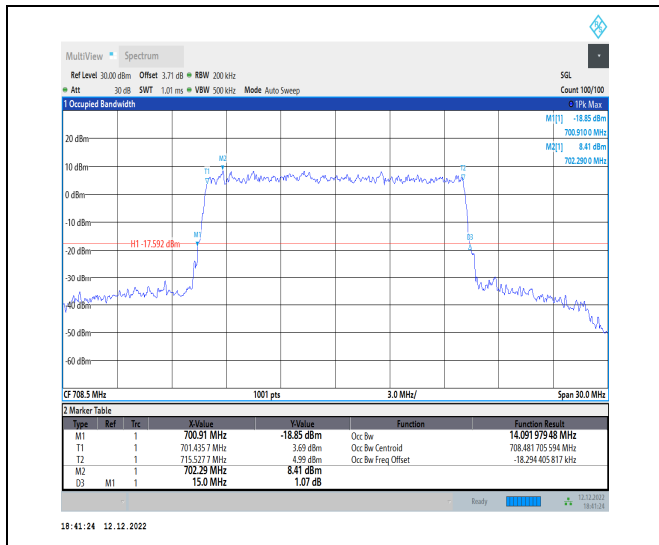


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1-N12-15-15-H-9-CP-256QAM-Outer_Full-79@0-Ant
1-14.092-15.000-≤15-PASS



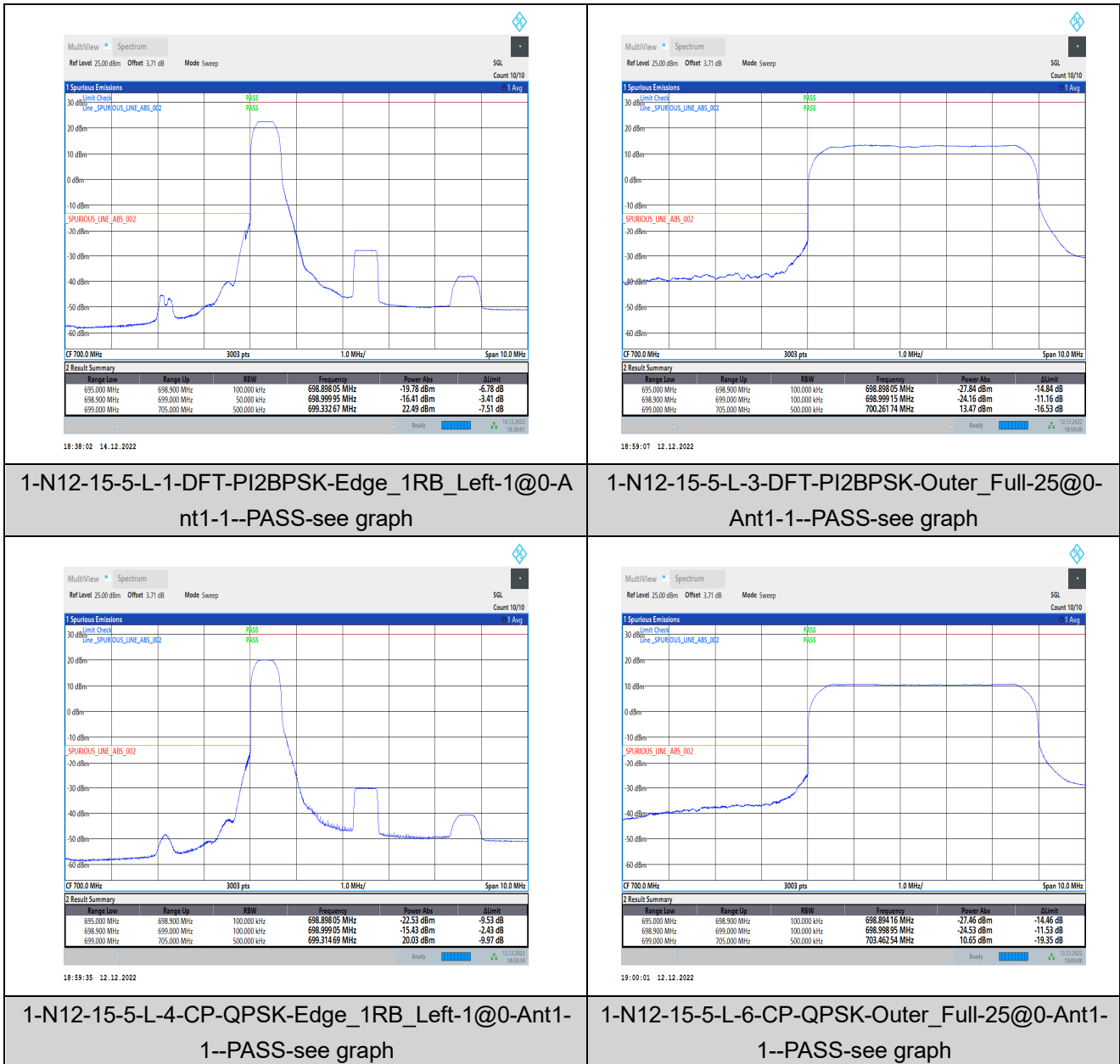
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Band Edge for SA

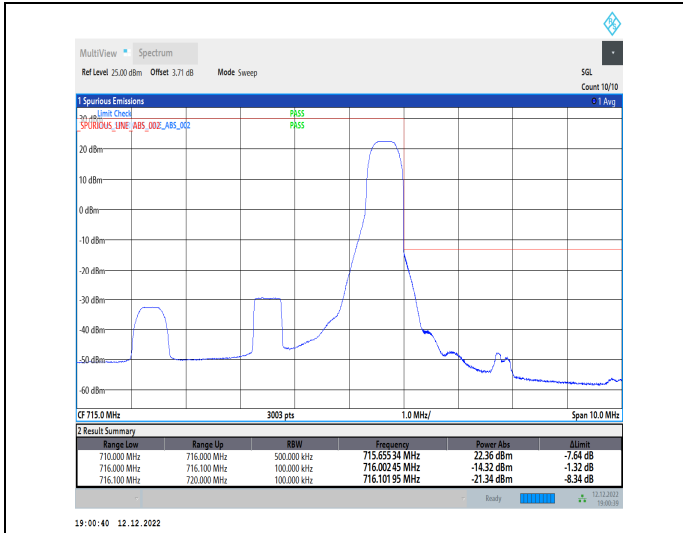
Test Graphs



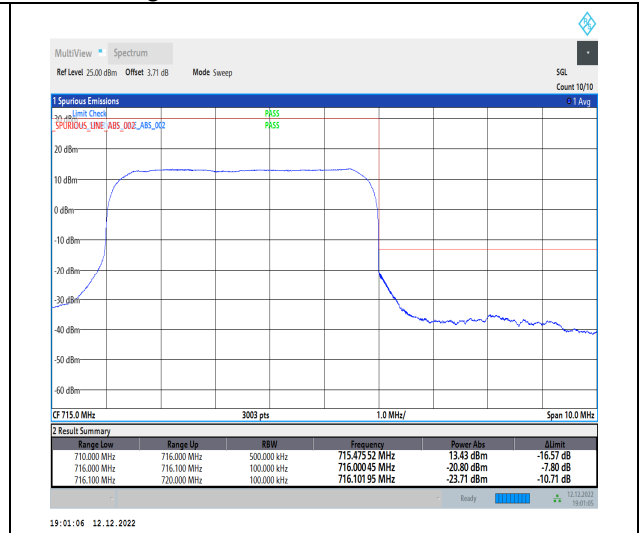
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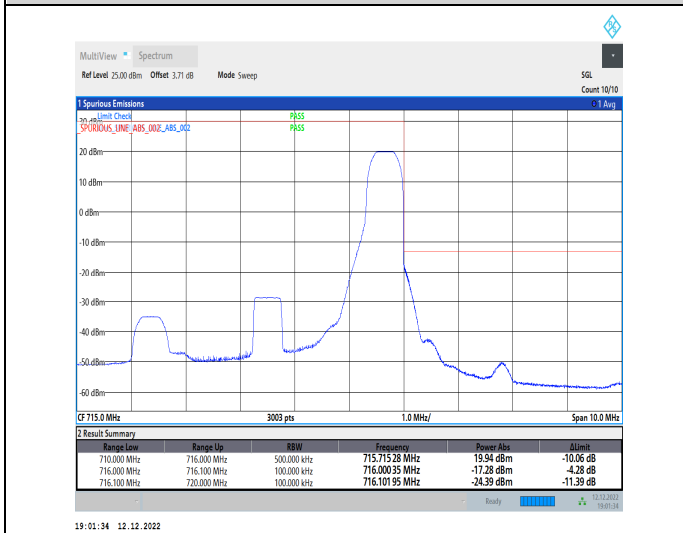
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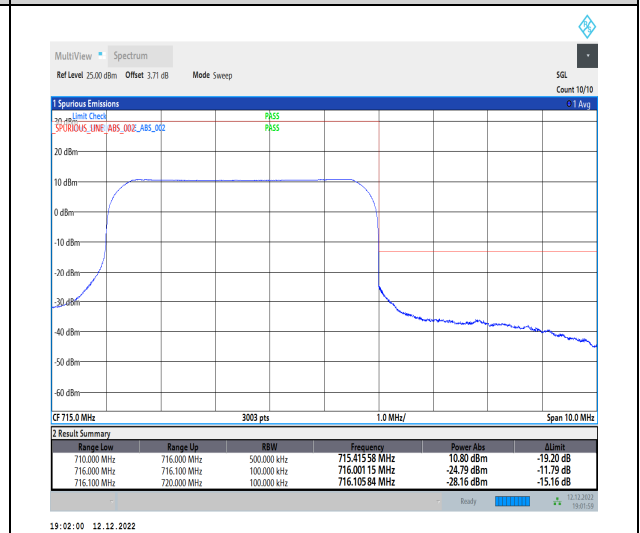
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4-Ant1-1--PASS-see graph



1-N12-15-5-H-3-DFT-PI2BPSK-Outer_Full-25@0-Ant1-1--PASS-see graph



1-N12-15-5-H-5-CP-QPSK-Edge_1RB_Right-1@24-Ant1-1--PASS-see graph



1-N12-15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant1-1--PASS-see graph

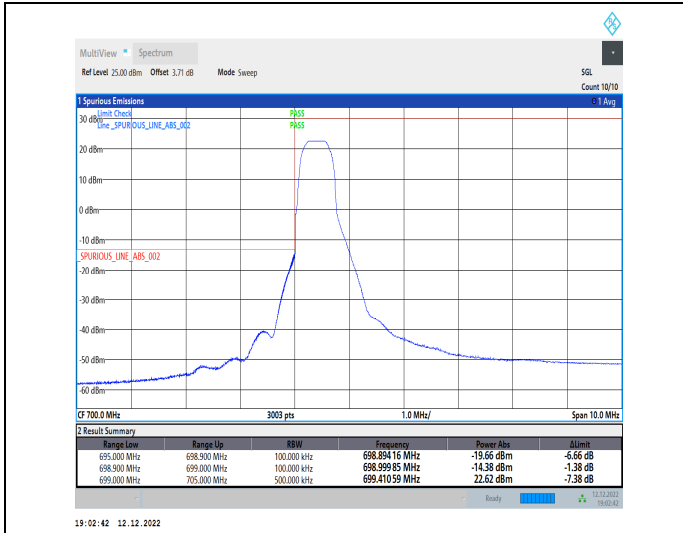


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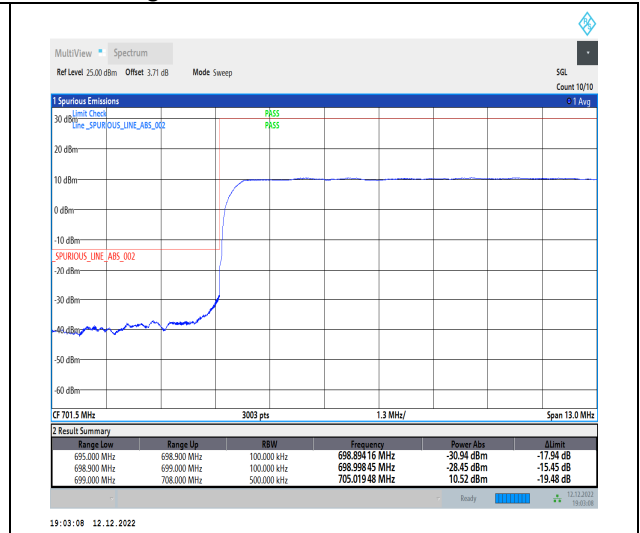
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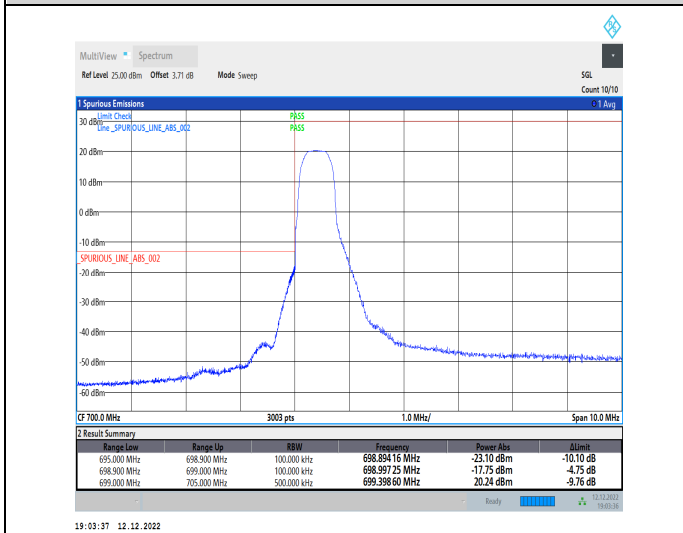
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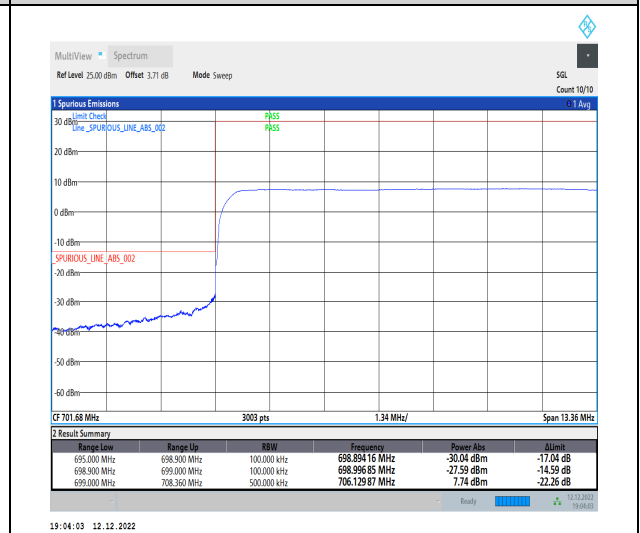
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1-N12-15-10-L-3-DFT-PI2BPSK-Outer_Full-50@0-Ant1-1--PASS-see graph



1-N12-15-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



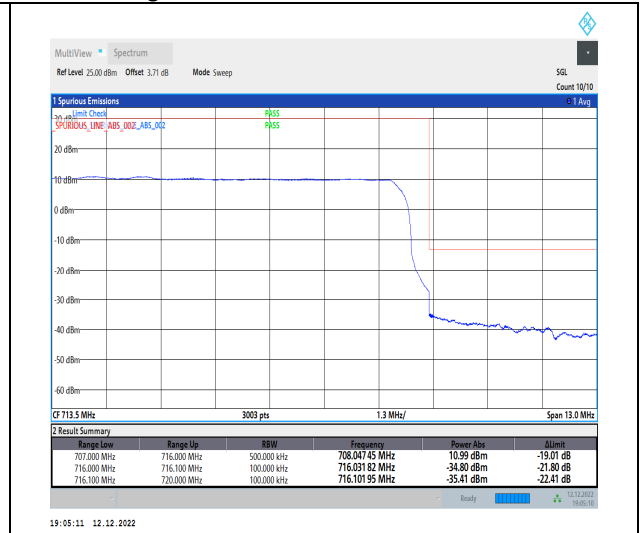
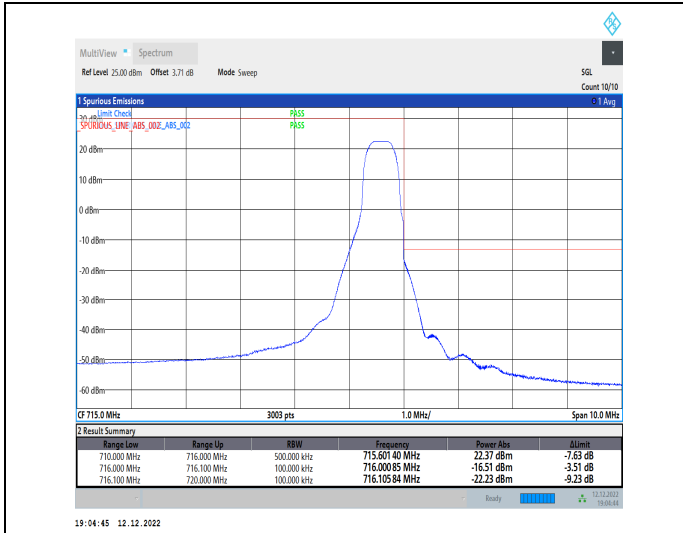
1-N12-15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant1-1--PASS-see graph



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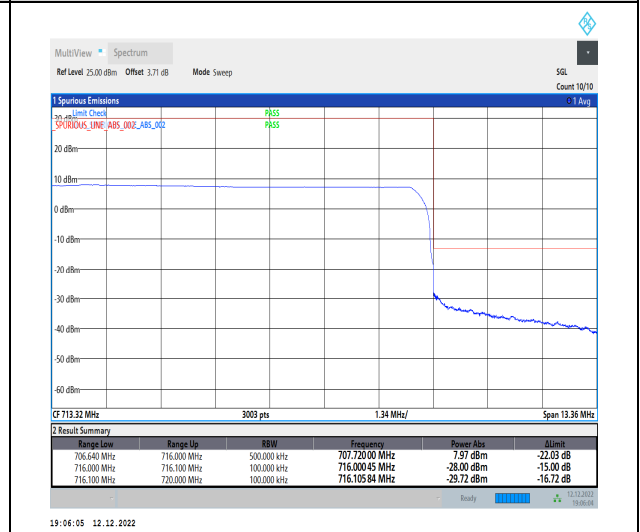
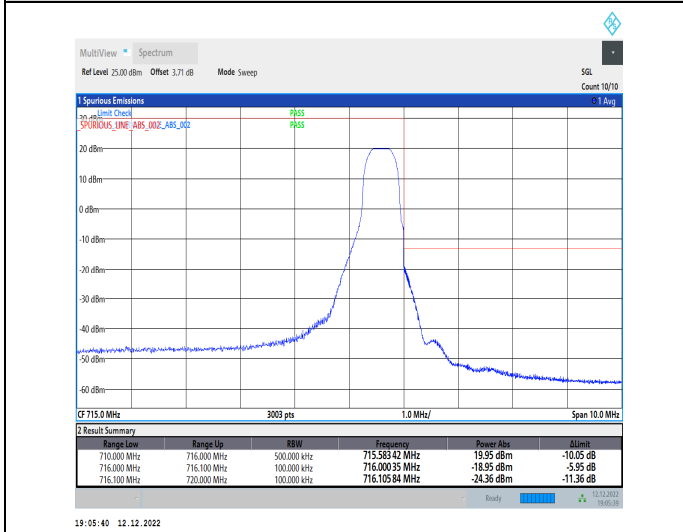
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1-N12-15-10-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@51-Ant1-1--PASS-see graph

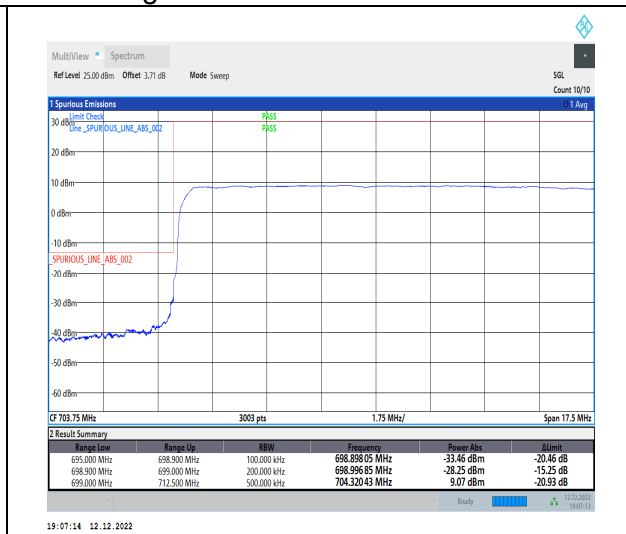
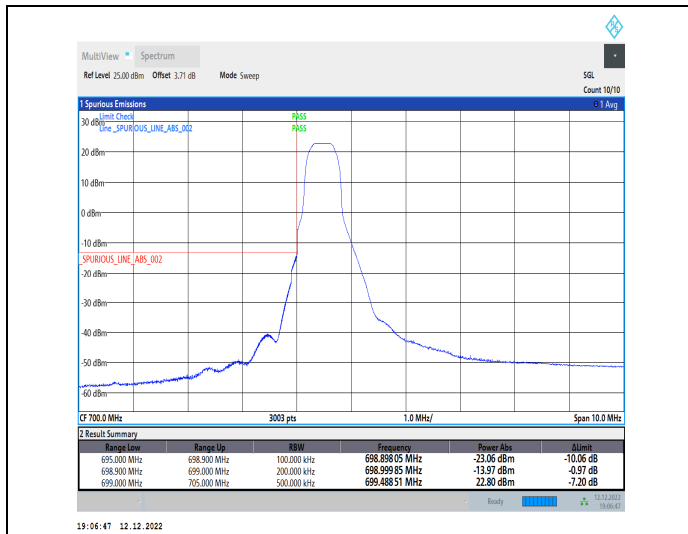
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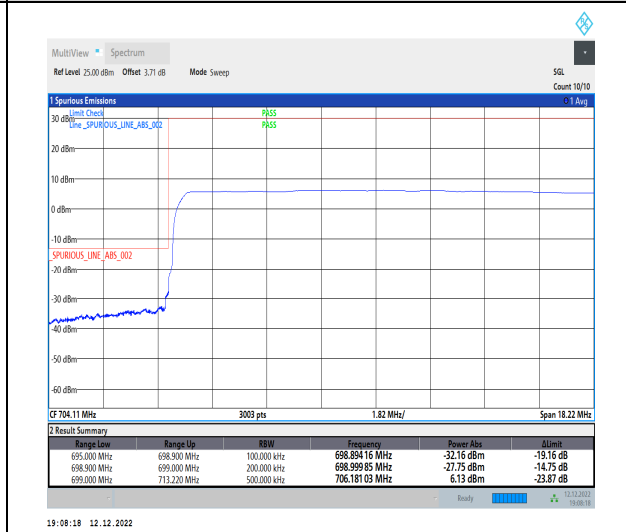
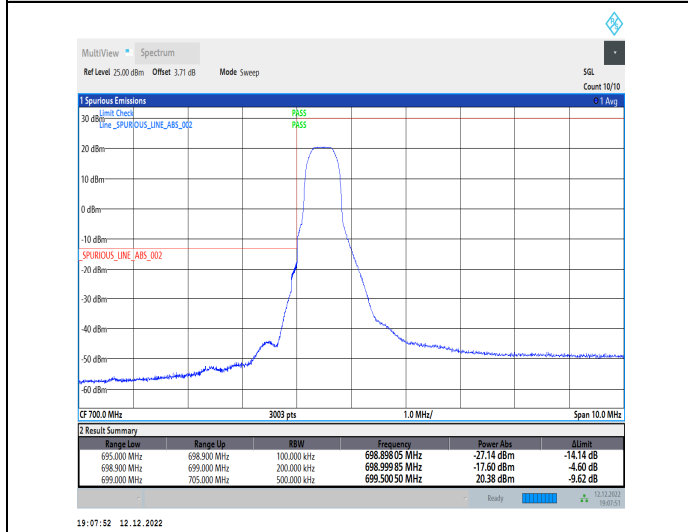
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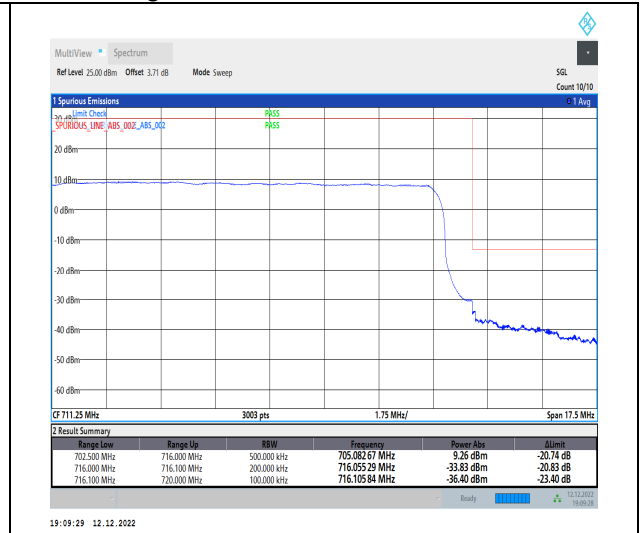
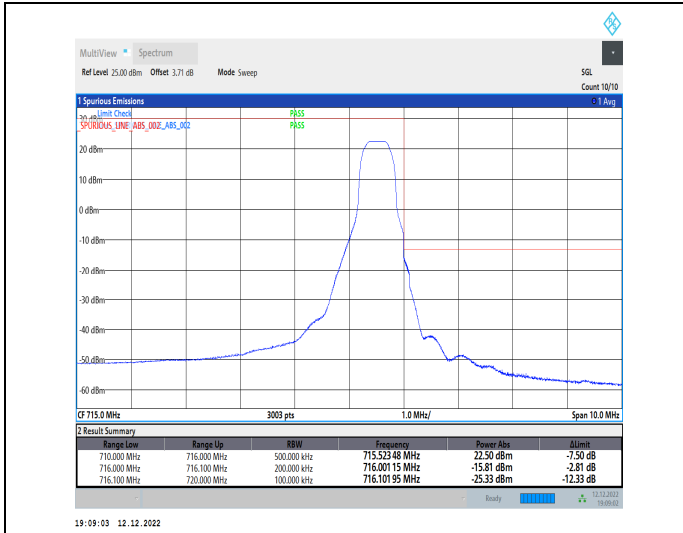
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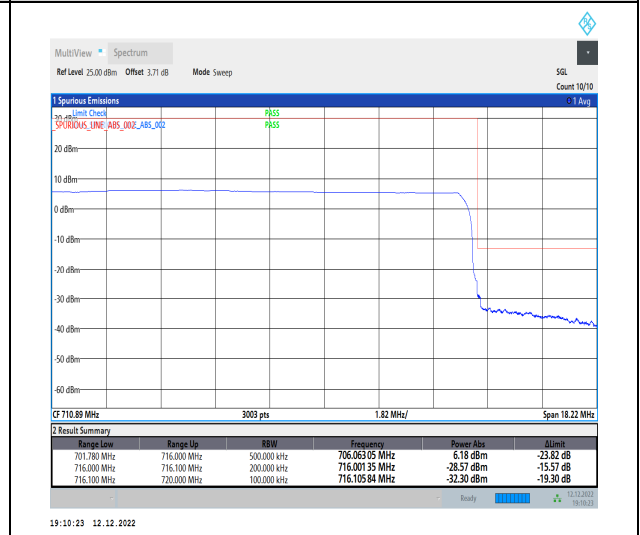
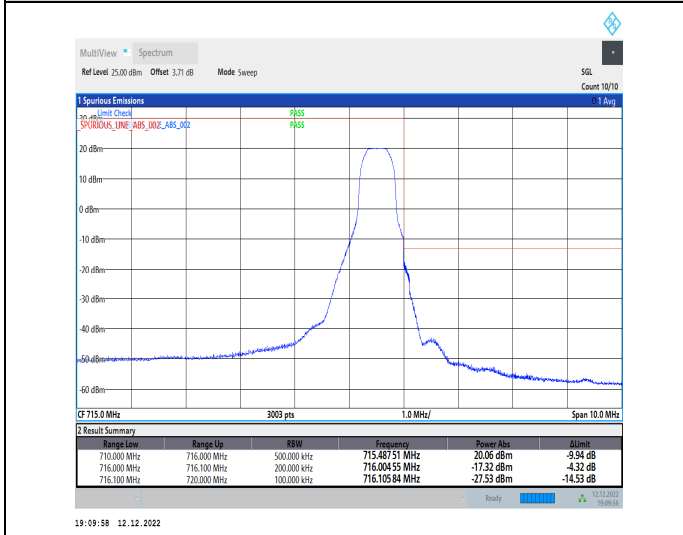
1-N12-15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant1-1--PASS-see graph





1-N12-15-15-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@78-Ant1-1--PASS-see graph

1-N12-15-15-H-3-DFT-PI2BPSK-Outer_Full-75@0-Ant1-1--PASS-see graph



1-N12-15-15-H-5-CP-QPSK-Edge_1RB_Right-1@78-Ant1-1--PASS-see graph

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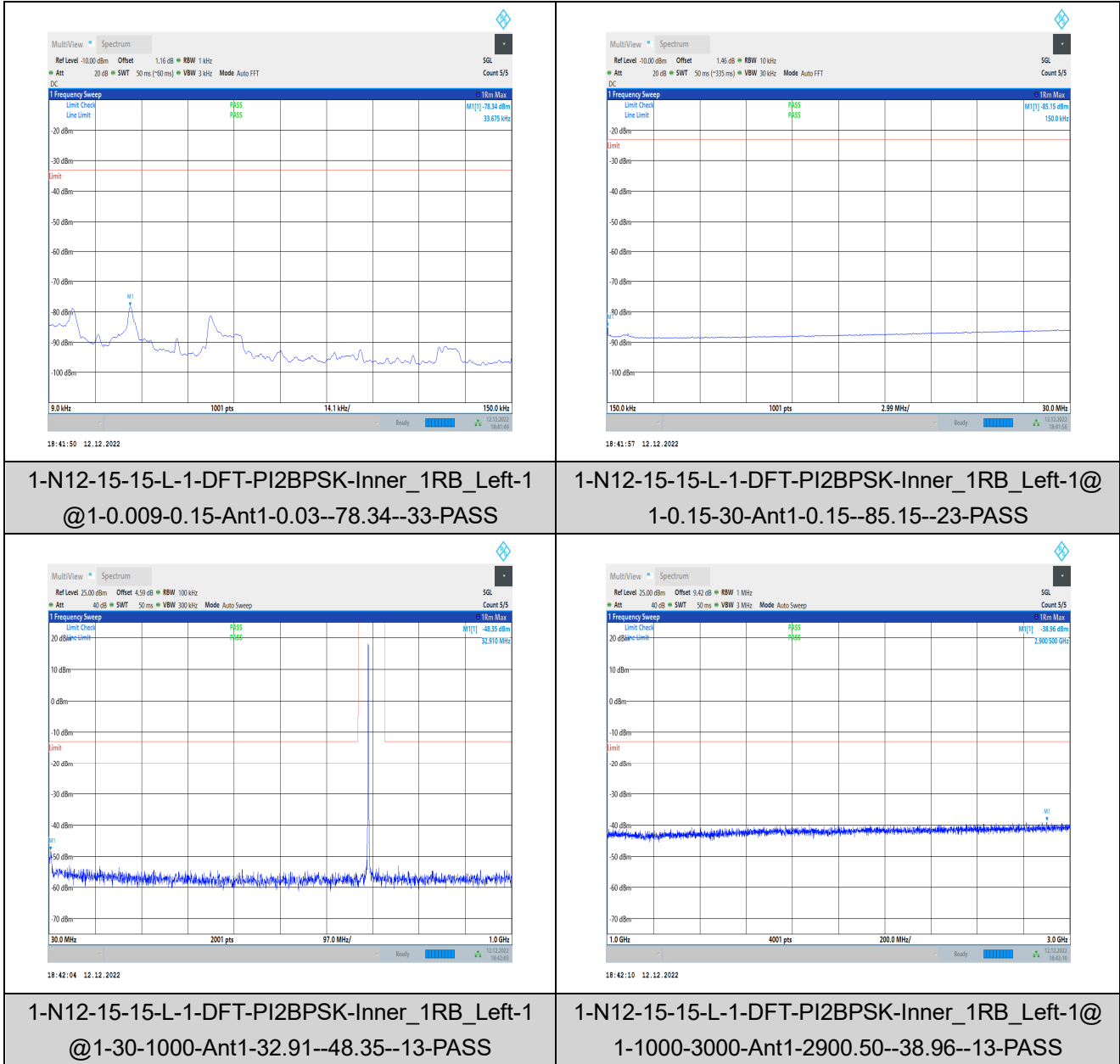
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Conducted Spurious Emission for SA

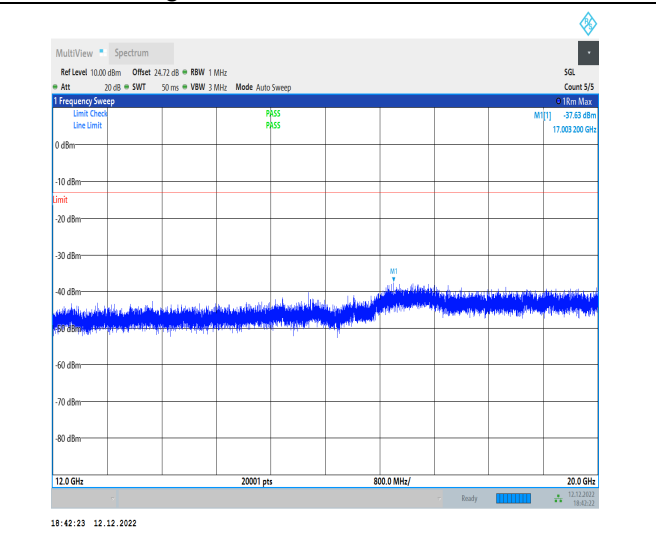
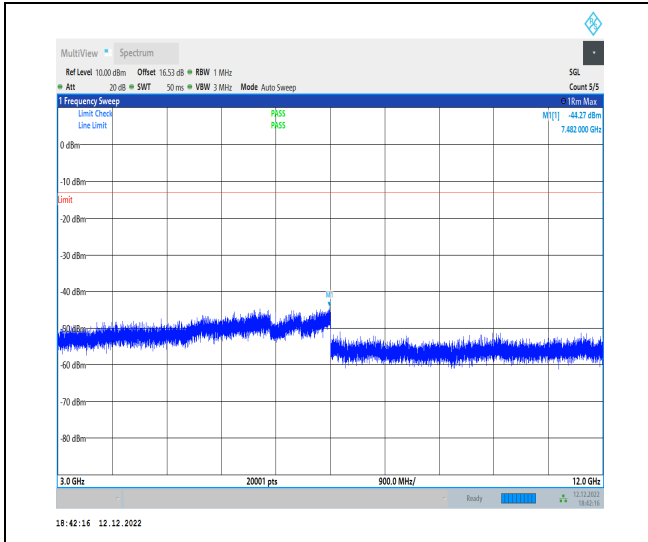
Test Graphs



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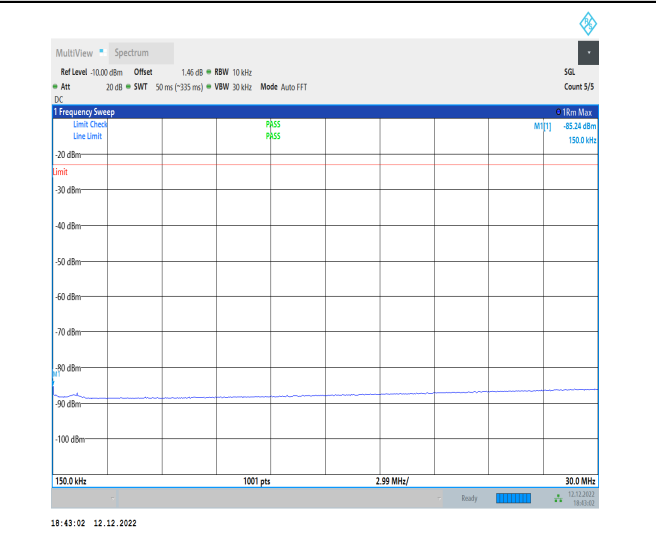
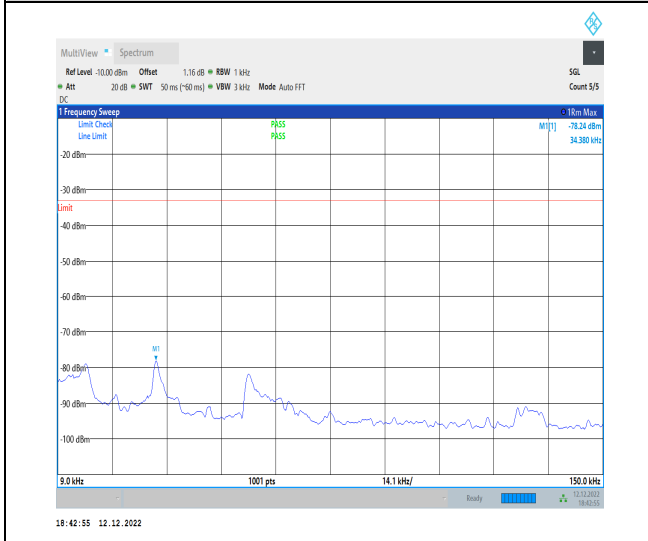
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1-N12-15-15-L-1-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-3000-12000-Ant1-7482.00--44.27--13-PASS

1-N12-15-15-L-1-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-12000-20000-Ant1-17003.20--37.63--13-PASS

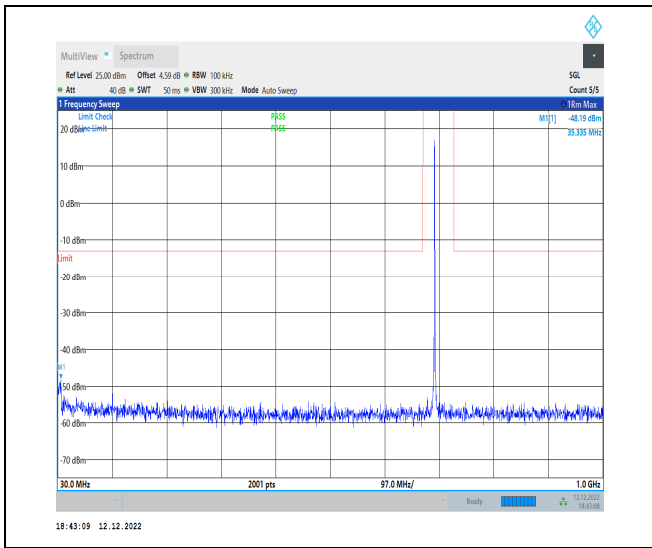


1-N12-15-15-M-1-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-0.009-0.15-Ant1-0.03--78.24--33-PASS

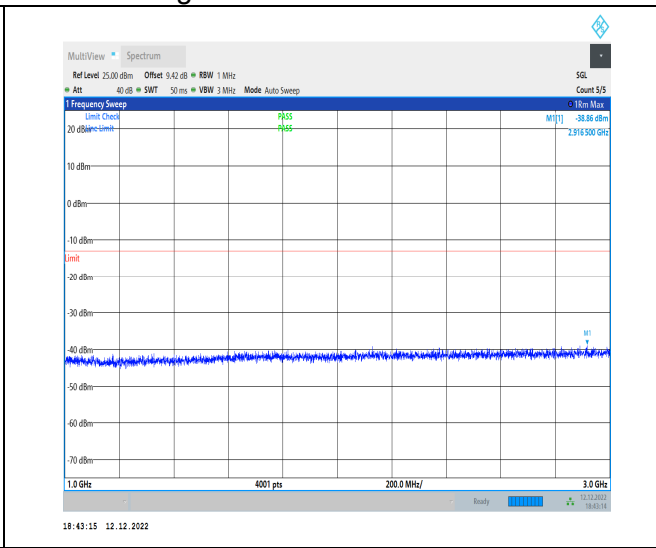
1-N12-15-15-M-1-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-0.15-30-Ant1-0.15--85.24--23-PASS



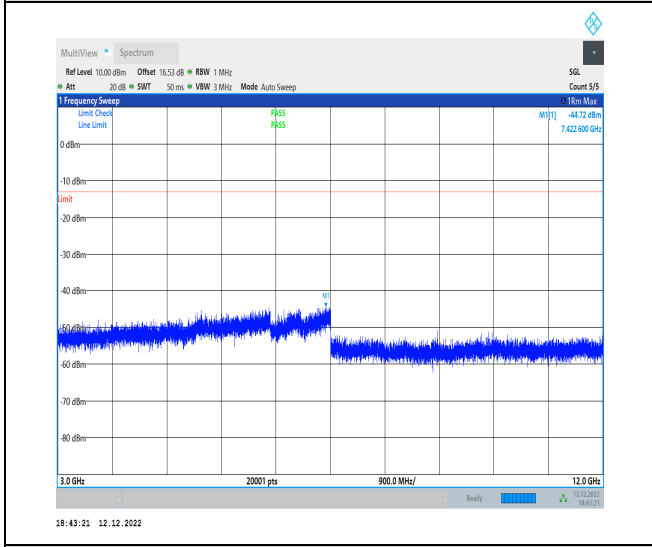
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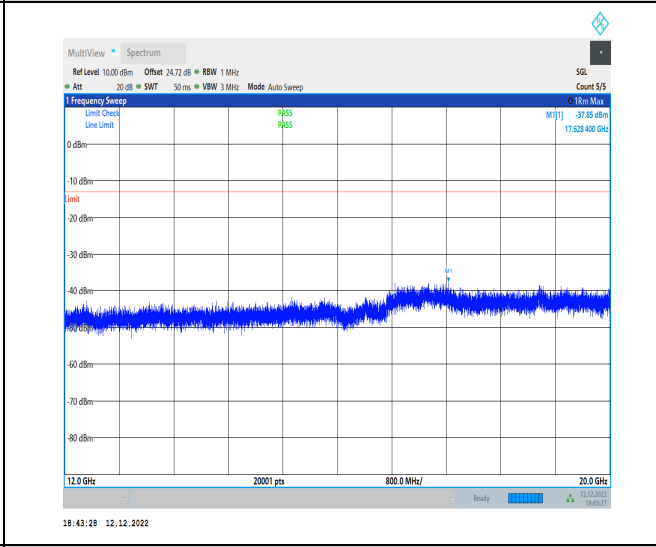
1-N12-15-15-M-1-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-30-1000-Ant1-35.34--48.19--13-PASS



1-N12-15-15-M-1-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-1000-3000-Ant1-2916.50--38.86--13-PASS

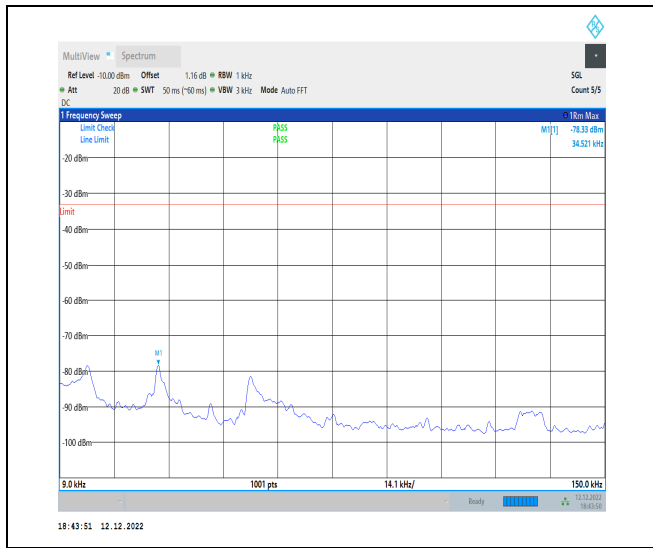


1-N12-15-15-M-1-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-3000-12000-Ant1-7422.60--44.72--13-PASS

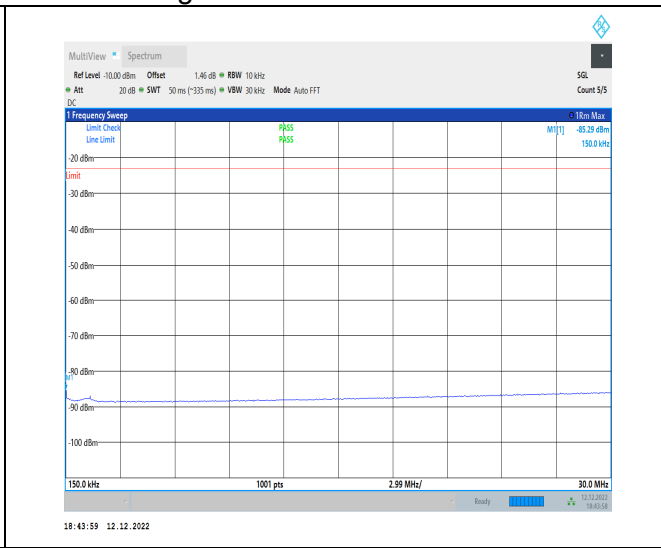


1-N12-15-15-M-1-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-12000-20000-Ant1-17628.40--37.85--13-PASS

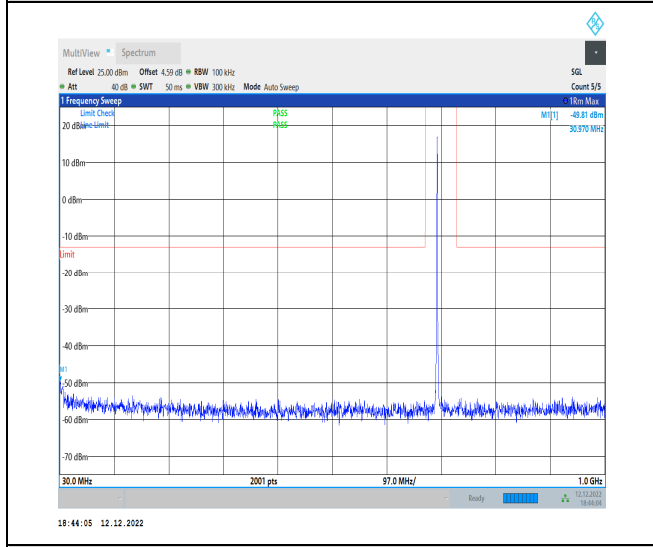




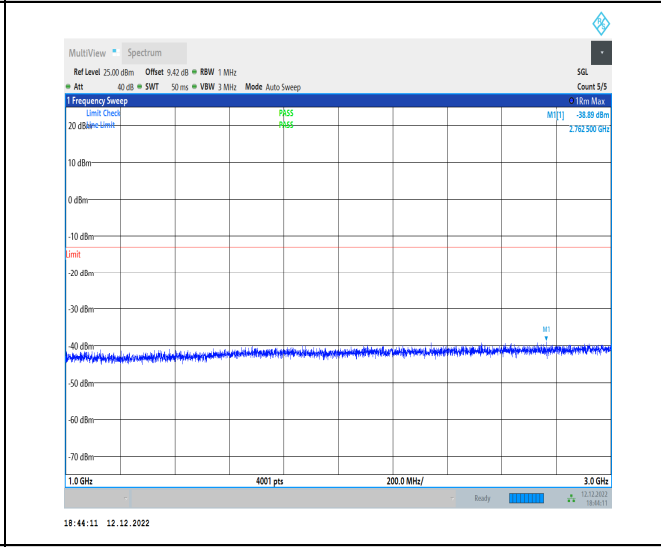
1-N12-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-0.009-0.15-Ant1-0.03--78.33--33-PASS



1-N12-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-0.15-30-Ant1-0.15--85.29--23-PASS



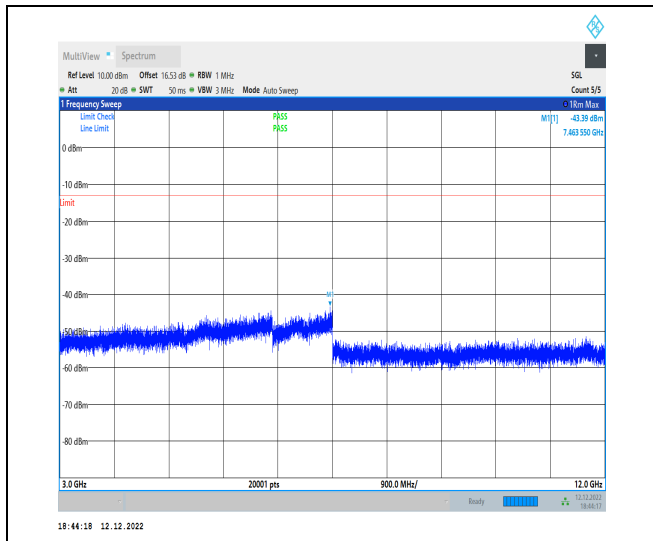
1-N12-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-30-1000-Ant1-30.97--49.81--13-PASS



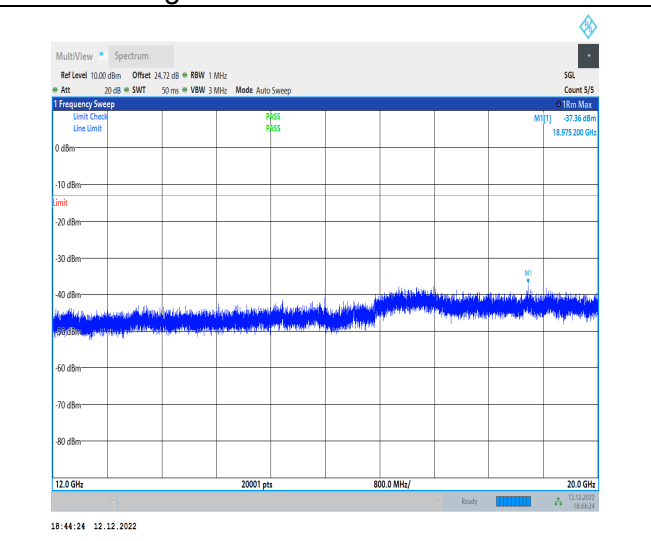
1-N12-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1 @ 1-1000-3000-Ant1-2762.50--38.89--13-PASS



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1-N12-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
 @1-3000-12000-Ant1-7463.55--43.39--13-PASS



1-N12-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@
 1-12000-20000-Ant1-18975.20--37.36--13-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band 12 ANT 2_ 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 | 1398.6667 | 50.56 | -48.73 | 25.40 | -68.03 | -13.00 | 55.03 | 256 | 284 | Horizontal |
| 2 | 2099.52 | 43.06 | -47.88 | 27.10 | -72.98 | -13.00 | 59.98 | 368 | 5 | Horizontal |
| 3 | 2799.36 | 42.94 | -46.68 | 28.92 | -70.08 | -13.00 | 57.08 | 213 | 331 | Horizontal |
| 4 | 3499.2 | 42.30 | -46.05 | 29.40 | -69.61 | -13.00 | 56.61 | 169 | 345 | Horizontal |
| 5 | 4199.04 | 41.61 | -45.11 | 30.92 | -67.84 | -13.00 | 54.84 | 132 | 357 | Horizontal |
| 6 | 4898.88 | 39.40 | -45.15 | 32.36 | -68.65 | -13.00 | 55.65 | 244 | 0 | 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 | 1399.68 | 44.50 | -48.73 | 25.40 | -74.09 | -13.00 | 61.09 | 125 | 359 | Vertical |
| 2 | 2099.52 | 43.23 | -47.88 | 27.10 | -72.81 | -13.00 | 59.81 | 168 | 360 | Vertical |
| 3 | 2799.36 | 43.47 | -46.68 | 28.92 | -69.55 | -13.00 | 56.55 | 236 | 359 | Vertical |
| 4 | 3499.2 | 41.43 | -46.05 | 29.40 | -70.48 | -13.00 | 57.48 | 208 | 360 | Vertical |
| 5 | 4199.04 | 41.48 | -45.11 | 30.92 | -67.97 | -13.00 | 54.97 | 341 | 217 | Vertical |
| 6 | 4898.88 | 40.07 | -45.15 | 32.36 | -67.98 | -13.00 | 54.98 | 309 | 75 | Vertical |



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Test Band = SA Band 12 ANT 2_ 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 | 1401.68 | 44.18 | -48.73 | 25.40 | -74.40 | -13.00 | 61.40 | 172 | 204 | Horizontal |
| 2 | 2102.52 | 43.63 | -47.88 | 27.11 | -72.40 | -13.00 | 59.40 | 273 | 93 | Horizontal |
| 3 | 2803.36 | 42.75 | -46.68 | 28.93 | -70.26 | -13.00 | 57.26 | 230 | 218 | Horizontal |
| 4 | 3504.2 | 42.18 | -46.05 | 29.41 | -69.71 | -13.00 | 56.71 | 199 | 78 | Horizontal |
| 5 | 4205.04 | 41.30 | -45.11 | 30.93 | -68.14 | -13.00 | 55.14 | 325 | 62 | Horizontal |
| 6 | 4905.88 | 39.52 | -45.14 | 32.37 | -68.51 | -13.00 | 55.51 | 156 | 313 | 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 | 1401.68 | 44.87 | -48.73 | 25.40 | -73.71 | -13.00 | 60.71 | 236 | 123 | Vertical |
| 2 | 2102.52 | 43.27 | -47.88 | 27.11 | -72.76 | -13.00 | 59.76 | 288 | 261 | Vertical |
| 3 | 2803.36 | 42.68 | -46.68 | 28.93 | -70.33 | -13.00 | 57.33 | 358 | 245 | Vertical |
| 4 | 3504.2 | 42.09 | -46.05 | 29.41 | -69.80 | -13.00 | 56.80 | 302 | 75 | Vertical |
| 5 | 4205.04 | 41.68 | -45.11 | 30.93 | -67.76 | -13.00 | 54.76 | 152 | 350 | Vertical |
| 6 | 4905.88 | 39.78 | -45.14 | 32.37 | -68.25 | -13.00 | 55.25 | 196 | 45 | Vertical |



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Test Band = SA Band 12 ANT 2_ 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 | 1398.6667 | 48.49 | -48.73 | 25.40 | -70.10 | -13.00 | 57.10 | 187 | 300 | Horizontal |
| 2 | 2105.52 | 42.91 | -47.87 | 27.11 | -73.11 | -13.00 | 60.11 | 238 | 145 | Horizontal |
| 3 | 2807.36 | 42.72 | -46.69 | 28.95 | -70.28 | -13.00 | 57.28 | 268 | 207 | Horizontal |
| 4 | 3509.2 | 41.95 | -46.04 | 29.42 | -69.93 | -13.00 | 56.93 | 312 | 283 | Horizontal |
| 5 | 4211.04 | 41.95 | -45.11 | 30.94 | -67.48 | -13.00 | 54.48 | 158 | 252 | Horizontal |
| 6 | 4912.88 | 39.79 | -45.13 | 32.39 | -68.21 | -13.00 | 55.21 | 203 | 20 | 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 | 1403.68 | 44.99 | -48.72 | 25.40 | -73.59 | -13.00 | 60.59 | 295 | 106 | Vertical |
| 2 | 2105.52 | 43.06 | -47.87 | 27.11 | -72.96 | -13.00 | 59.96 | 193 | 349 | Vertical |
| 3 | 2807.36 | 42.21 | -46.69 | 28.95 | -70.79 | -13.00 | 57.79 | 204 | 232 | Vertical |
| 4 | 3509.2 | 42.14 | -46.04 | 29.42 | -69.74 | -13.00 | 56.74 | 146 | 61 | Vertical |
| 5 | 4211.04 | 41.86 | -45.11 | 30.94 | -67.57 | -13.00 | 54.57 | 233 | 184 | Vertical |
| 6 | 4912.88 | 39.80 | -45.13 | 32.39 | -68.20 | -13.00 | 55.20 | 171 | 122 | Vertical |



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Test Band = ENDC B2A_n12A_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 | 1399.68 | 31.14 | -25.81 | 25.40 | -64.53 | -13.00 | 51.53 | 141 | 319 | Horizontal |
| 2 | 2099.52 | 30.55 | -24.91 | 27.10 | -62.52 | -13.00 | 49.52 | 206 | 118 | Horizontal |
| 3 | 2799.36 | 30.24 | -23.69 | 28.92 | -59.79 | -13.00 | 46.79 | 288 | 223 | Horizontal |
| 4 | 3499.2 | 42.08 | -45.69 | 29.40 | -69.47 | -13.00 | 56.47 | 314 | 65 | Horizontal |
| 5 | 4199.04 | 41.01 | -45.02 | 30.92 | -68.35 | -13.00 | 55.35 | 226 | 231 | Horizontal |
| 6 | 4898.88 | 39.80 | -44.88 | 32.36 | -67.98 | -13.00 | 54.98 | 189 | 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 | 1399.68 | 31.28 | -25.81 | 25.40 | -64.39 | -13.00 | 51.39 | 241 | 76 | Vertical |
| 2 | 2099.52 | 30.96 | -24.91 | 27.10 | -62.11 | -13.00 | 49.11 | 185 | 276 | Vertical |
| 3 | 2799.36 | 30.22 | -23.69 | 28.92 | -59.81 | -13.00 | 46.81 | 266 | 357 | Vertical |
| 4 | 3499.2 | 41.78 | -45.69 | 29.40 | -69.77 | -13.00 | 56.77 | 304 | 333 | Vertical |
| 5 | 4199.04 | 40.93 | -45.02 | 30.92 | -68.43 | -13.00 | 55.43 | 182 | 81 | Vertical |
| 6 | 4898.88 | 39.74 | -44.88 | 32.36 | -68.04 | -13.00 | 55.04 | 153 | 283 | Vertical |



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 Wireless Laboratory

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Test Band = ENDC B2A_n12A_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 | 1401.68 | 31.41 | -25.80 | 25.40 | -64.25 | -13.00 | 51.25 | 162 | 277 | Horizontal |
| 2 | 2102.52 | 31.23 | -24.91 | 27.11 | -61.83 | -13.00 | 48.83 | 279 | 63 | Horizontal |
| 3 | 2803.36 | 30.44 | -23.68 | 28.93 | -59.57 | -13.00 | 46.57 | 203 | 198 | Horizontal |
| 4 | 3504.2 | 41.91 | -45.67 | 29.41 | -69.61 | -13.00 | 56.61 | 321 | 280 | Horizontal |
| 5 | 4205.04 | 41.42 | -45.02 | 30.93 | -67.93 | -13.00 | 54.93 | 241 | 64 | Horizontal |
| 6 | 4905.88 | 39.83 | -44.88 | 32.38 | -67.94 | -13.00 | 54.94 | 149 | 360 | 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 | 1401.68 | 31.59 | -25.80 | 25.40 | -64.07 | -13.00 | 51.07 | 209 | 0 | Vertical |
| 2 | 2102.52 | 31.22 | -24.91 | 27.11 | -61.84 | -13.00 | 48.84 | 347 | 234 | Vertical |
| 3 | 2803.36 | 30.31 | -23.68 | 28.93 | -59.70 | -13.00 | 46.70 | 255 | 357 | Vertical |
| 4 | 3504.2 | 41.90 | -45.67 | 29.41 | -69.62 | -13.00 | 56.62 | 216 | 282 | Vertical |
| 5 | 4205.04 | 42.05 | -45.02 | 30.93 | -67.30 | -13.00 | 54.30 | 198 | 82 | Vertical |
| 6 | 4905.88 | 39.78 | -44.88 | 32.38 | -67.99 | -13.00 | 54.99 | 145 | 232 | Vertical |



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Test Band = ENDC B2A_n12A_ 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 | 1403.68 | 31.19 | -25.80 | 25.40 | -64.46 | -13.00 | 51.46 | 257 | 23 | Horizontal |
| 2 | 2105.52 | 30.23 | -24.91 | 27.11 | -62.83 | -13.00 | 49.83 | 299 | 54 | Horizontal |
| 3 | 2807.36 | 30.33 | -23.67 | 28.95 | -59.65 | -13.00 | 46.65 | 315 | 297 | Horizontal |
| 4 | 3509.2 | 41.88 | -45.65 | 29.42 | -69.60 | -13.00 | 56.60 | 263 | 359 | Horizontal |
| 5 | 4211.04 | 41.34 | -45.01 | 30.94 | -67.99 | -13.00 | 54.99 | 174 | 359 | Horizontal |
| 6 | 4912.88 | 39.88 | -44.89 | 32.39 | -67.88 | -13.00 | 54.88 | 193 | 98 | 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 | 1403.68 | 31.46 | -25.80 | 25.40 | -64.19 | -13.00 | 51.19 | 225 | 204 | Vertical |
| 2 | 2105.52 | 31.50 | -24.91 | 27.11 | -61.56 | -13.00 | 48.56 | 296 | 256 | Vertical |
| 3 | 2807.36 | 30.44 | -23.67 | 28.95 | -59.54 | -13.00 | 46.54 | 145 | 235 | Vertical |
| 4 | 3509.2 | 42.47 | -45.65 | 29.42 | -69.01 | -13.00 | 56.01 | 186 | 46 | Vertical |
| 5 | 4211.04 | 41.61 | -45.01 | 30.94 | -67.72 | -13.00 | 54.72 | 352 | 130 | Vertical |
| 6 | 4912.88 | 40.63 | -44.89 | 32.39 | -67.13 | -13.00 | 54.13 | 241 | 353 | 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 |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | VH | NT | -4.200000 | -0.005936 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | VN | NT | -3.300000 | -0.004664 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | VL | NT | -5.100000 | -0.007208 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | VH | NT | -1.700000 | -0.002403 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | VN | NT | -3.000000 | -0.004240 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | VL | NT | -3.700000 | -0.005230 | PASS |



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Frequency Error VS. Temperature

| Temperature | | | | | | | | | | |
|-------------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | -40 | 5.200000 | 0.002762 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | -30 | -2.700000 | -0.003816 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | -20 | -5.000000 | -0.007067 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | -10 | -3.500000 | -0.004947 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | 0 | -3.800000 | -0.005371 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | 10 | -4.500000 | -0.006360 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | 20 | -2.600000 | -0.003675 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | 30 | -1.000000 | -0.001413 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | 40 | -1.400000 | -0.001979 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | 50 | -3.000000 | -0.004240 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | 60 | 6.300000 | 0.003347 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | 75 | 4.100000 | 0.002178 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | -40 | 10.600000 | 0.005631 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | -30 | 1.100000 | 0.001555 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | -20 | -2.800000 | -0.003958 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | -10 | -1.500000 | -0.002120 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 0 | -3.200000 | -0.004523 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 10 | -2.500000 | -0.003534 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 20 | -1.700000 | -0.002403 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 30 | -0.100000 | -0.000141 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 40 | -2.900000 | -0.004099 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 50 | -2.400000 | -0.003392 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 60 | 4.200000 | 0.002231 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 75 | 8.700000 | 0.004622 | PASS |

---End of Attachment---



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