# Appendix B.32

## NR Band n13

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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 (dBm) | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| N13 | 15 | 5 | DFT-PI2BPSK | L | Inner_1RB_Left | 24.02 | 23.41 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-PI2BPSK | L | Inner_1RB_Right | 24.08 | 23.47 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-PI2BPSK | L | Outer_Full | 23.50 | 22.89 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-QPSK | L | Inner_1RB_Left | 23.92 | 23.31 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-QPSK | L | Inner_1RB_Right | 23.95 | 23.34 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-QPSK | L | Outer_Full | 23.05 | 22.44 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-16QAM | L | Inner_1RB_Left | 23.00 | 22.39 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-16QAM | L | Inner_1RB_Right | 23.05 | 22.44 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-16QAM | L | Outer_Full | 22.07 | 21.46 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-64QAM | L | Inner_1RB_Left | 21.73 | 21.12 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-64QAM | L | Inner_1RB_Right | 21.71 | 21.1 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-64QAM | L | Outer_Full | 21.46 | 20.85 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-256QAM | L | Inner_1RB_Left | 19.01 | 18.4 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-256QAM | L | Inner_1RB_Right | 18.95 | 18.34 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-256QAM | L | Outer_Full | 19.50 | 18.89 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-PI2BPSK | M | Inner_1RB_Left | 24.07 | 23.46 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-PI2BPSK | M | Inner_1RB_Right | 23.89 | 23.28 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-PI2BPSK | M | Outer_Full | 23.54 | 22.93 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-QPSK | M | Inner_1RB_Left | 23.87 | 23.26 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-QPSK | M | Inner_1RB_Right | 23.85 | 23.24 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-QPSK | M | Outer_Full | 23.01 | 22.4 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-16QAM | M | Inner_1RB_Left | 22.90 | 22.29 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-16QAM | M | Inner_1RB_Right | 22.88 | 22.27 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-16QAM | M | Outer_Full | 22.03 | 21.42 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-64QAM | M | Inner_1RB_Left | 21.77 | 21.16 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-64QAM | M | Inner_1RB_Right | 21.58 | 20.97 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-64QAM | M | Outer_Full | 21.48 | 20.87 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-256QAM | M | Inner_1RB_Left | 19.01 | 18.4 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-256QAM | M | Inner_1RB_Right | 18.82 | 18.21 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-256QAM | M | Outer_Full | 19.46 | 18.85 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-PI2BPSK | H | Inner_1RB_Left | 23.96 | 23.35 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-PI2BPSK | H | Inner_1RB_Right | 23.91 | 23.3 | 34.77 | PASS |

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| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| N13 | 15 | 5 | DFT-PI2BPSK | H | Outer_Full | 23.32 | 22.71 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-QPSK | H | Inner_1RB_Left | 23.86 | 23.25 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-QPSK | H | Inner_1RB_Right | 23.86 | 23.25 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-QPSK | H | Outer_Full | 22.98 | 22.37 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-16QAM | H | Inner_1RB_Left | 22.93 | 22.32 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-16QAM | H | Inner_1RB_Right | 22.80 | 22.19 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-16QAM | H | Outer_Full | 21.92 | 21.31 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-64QAM | H | Inner_1RB_Left | 21.57 | 20.96 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-64QAM | H | Inner_1RB_Right | 21.55 | 20.94 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-64QAM | H | Outer_Full | 21.40 | 20.79 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-256QAM | H | Inner_1RB_Left | 18.89 | 18.28 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-256QAM | H | Inner_1RB_Right | 18.87 | 18.26 | 34.77 | PASS |
| N13 | 15 | 5 | DFT-256QAM | H | Outer_Full | 19.21 | 18.6 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-PI2BPSK | L | Inner_1RB_Left | 24.03 | 23.42 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-PI2BPSK | L | Inner_1RB_Right | 23.96 | 23.35 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-PI2BPSK | L | Outer_Full | 23.50 | 22.89 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-QPSK | L | Inner_1RB_Left | 23.94 | 23.33 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-QPSK | L | Inner_1RB_Right | 23.80 | 23.19 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-QPSK | L | Outer_Full | 22.97 | 22.36 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-16QAM | L | Inner_1RB_Left | 23.00 | 22.39 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-16QAM | L | Inner_1RB_Right | 22.79 | 22.18 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-16QAM | L | Outer_Full | 22.24 | 21.63 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-64QAM | L | Inner_1RB_Left | 21.90 | 21.29 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-64QAM | L | Inner_1RB_Right | 21.61 | 21 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-64QAM | L | Outer_Full | 21.55 | 20.94 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-256QAM | L | Inner_1RB_Left | 19.02 | 18.41 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-256QAM | L | Inner_1RB_Right | 18.89 | 18.28 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-256QAM | L | Outer_Full | 19.47 | 18.86 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-PI2BPSK | M | Inner_1RB_Left | 24.11 | 23.5 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-PI2BPSK | M | Inner_1RB_Right | 23.93 | 23.32 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | 23.64 | 23.03 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-QPSK | M | Inner_1RB_Left | 23.97 | 23.36 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-QPSK | M | Inner_1RB_Right | 23.79 | 23.18 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-QPSK | M | Outer_Full | 22.96 | 22.35 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-16QAM | M | Inner_1RB_Left | 23.00 | 22.39 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-16QAM | M | Inner_1RB_Right | 22.77 | 22.16 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-16QAM | M | Outer_Full | 21.96 | 21.35 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-64QAM | M | Inner_1RB_Left | 21.58 | 20.97 | 34.77 | PASS |

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| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| N13 | 15 | 10 | DFT-64QAM | M | Inner_1RB_Right | 21.69 | 21.08 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-64QAM | M | Outer_Full | 21.59 | 20.98 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-256QAM | M | Inner_1RB_Left | 18.99 | 18.38 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-256QAM | M | Inner_1RB_Right | 18.90 | 18.29 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-256QAM | M | Outer_Full | 19.44 | 18.83 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-PI2BPSK | H | Inner_1RB_Left | 24.05 | 23.44 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-PI2BPSK | H | Inner_1RB_Right | 23.88 | 23.27 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-PI2BPSK | H | Outer_Full | 23.54 | 22.93 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-QPSK | H | Inner_1RB_Left | 23.94 | 23.33 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-QPSK | H | Inner_1RB_Right | 23.84 | 23.23 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-QPSK | H | Outer_Full | 22.96 | 22.35 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-16QAM | H | Inner_1RB_Left | 23.03 | 22.42 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-16QAM | H | Inner_1RB_Right | 22.75 | 22.14 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-16QAM | H | Outer_Full | 21.96 | 21.35 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-64QAM | H | Inner_1RB_Left | 21.82 | 21.21 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-64QAM | H | Inner_1RB_Right | 21.63 | 21.02 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-64QAM | H | Outer_Full | 21.57 | 20.96 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-256QAM | H | Inner_1RB_Left | 18.96 | 18.35 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-256QAM | H | Inner_1RB_Right | 18.90 | 18.29 | 34.77 | PASS |
| N13 | 15 | 10 | DFT-256QAM | H | Outer_Full | 19.43 | 18.82 | 34.77 | PASS |

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## Peak-to-Average Ratio for SA

## Peak-to-Average Ratio(PAPR)

### Test Result

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | DutyCycle | Factor | Result | Limit | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| N13 | 15 | 10 | DFT-256QAM | M | Outer_Full | 100% | 0.00 | 8.42 | ≤13 | PASS |
| N13 | 15 | 10 | CP-256QAM | M | Outer_Full | 100% | 0.00 | 9.35 | ≤13 | PASS |

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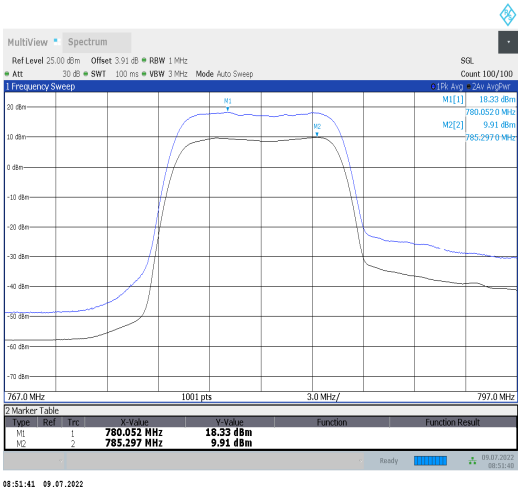
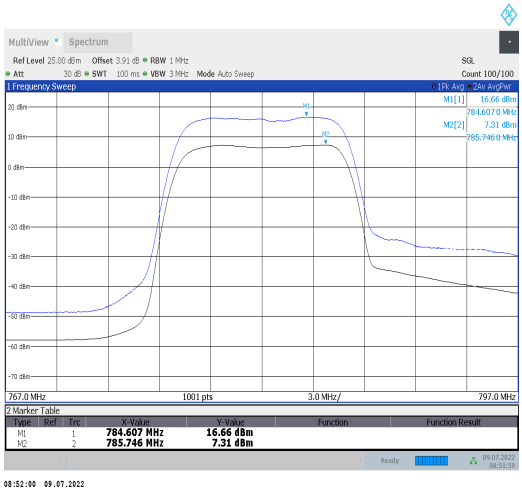
## Test Graphs

| | |
|---|---|
|   |   |
| 1-N13--15-10-M-1-DFT-256QAM-Outer_Full-50@0-Ant1-8.42-100%-0.00-8.42-PASS-≤13 | 1-N13--15-10-M-2-CP-256QAM-Outer_Full-52@0-Ant1-9.35-100%-0.00-9.35-PASS-≤13 |

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## Modulation characteristics for SA

### Test Result

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Result | Verdict |
|---|---|---|---|---|---|---|---|
| N13 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | see graph | PASS |
| N13 | 15 | 10 | DFT-QPSK | M | Outer_Full | see graph | PASS |
| N13 | 15 | 10 | DFT-16QAM | M | Outer_Full | see graph | PASS |
| N13 | 15 | 10 | DFT-64QAM | M | Outer_Full | see graph | PASS |
| N13 | 15 | 10 | DFT-256QAM | M | Outer_Full | see graph | PASS |
| N13 | 15 | 10 | CP-QPSK | M | Outer_Full | see graph | PASS |
| N13 | 15 | 10 | CP-16QAM | M | Outer_Full | see graph | PASS |
| N13 | 15 | 10 | CP-64QAM | M | Outer_Full | see graph | PASS |
| N13 | 15 | 10 | CP-256QAM | M | Outer_Full | see graph | PASS |

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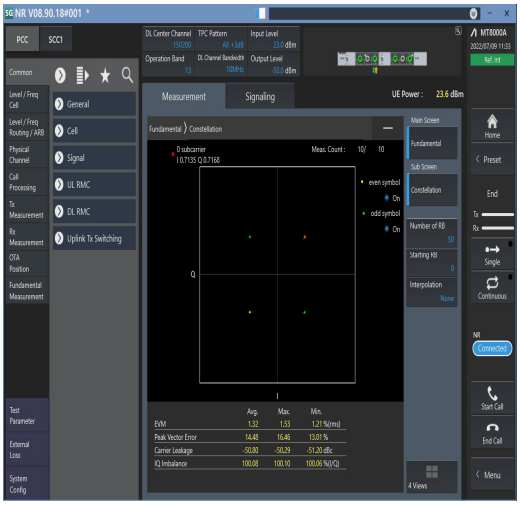
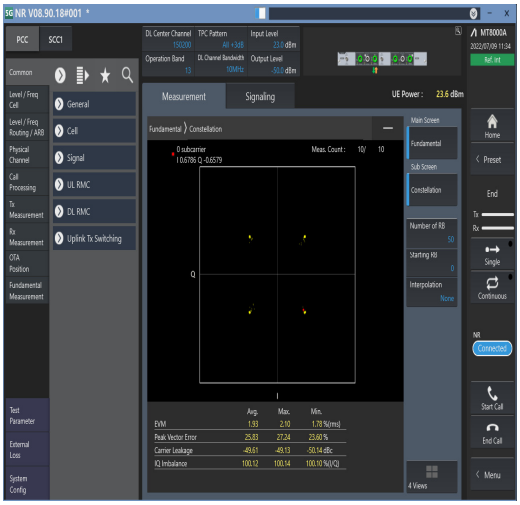
## Test Graphs



1-N13--15-10-M-1-DFT-PI2BPSK-Outer_Full-50@0-Ant1-see graph-PASS



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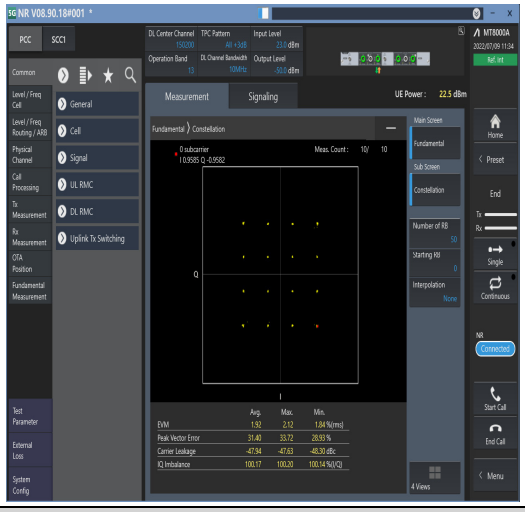

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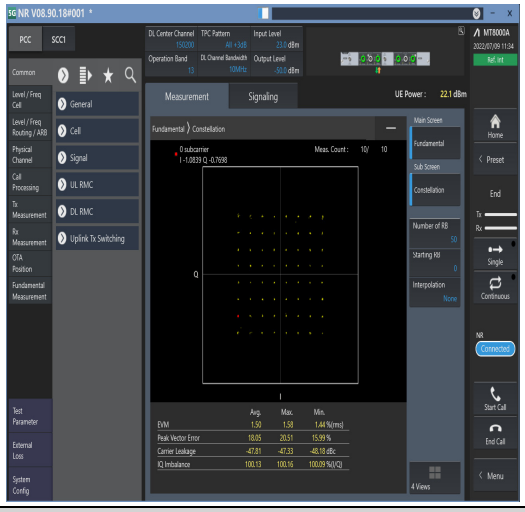

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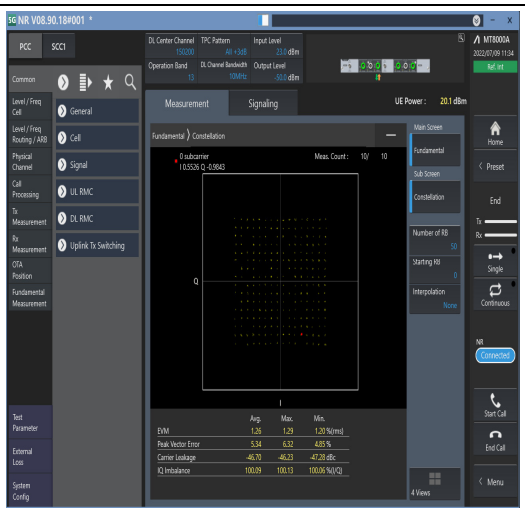


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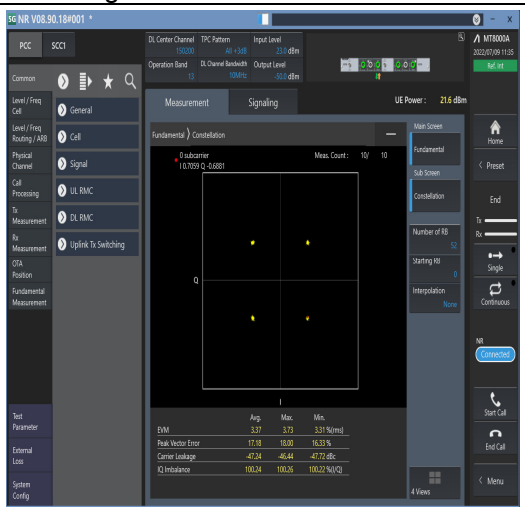


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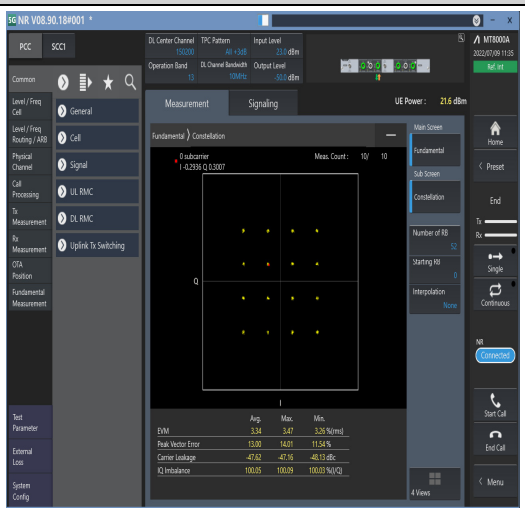


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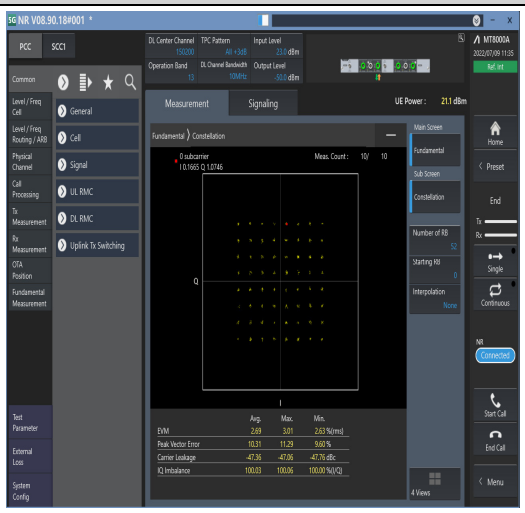


1-N13--15-10-M-8-CP-64QAM-Outer_Full-52@0-Ant1-see graph-PASS

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| | |
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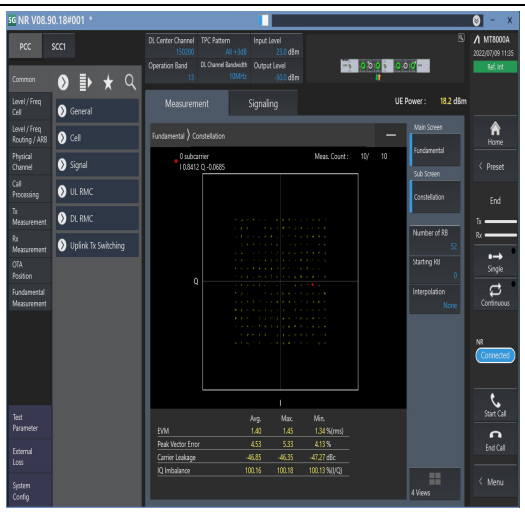
|  | |
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## 26dB Bandwidth and Occupied Bandwidth for SA

### Test Result

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Result (99%) | Result (26dB) | Verdict |
|---|---|---|---|---|---|---|---|---|
| N13 | 15 | 5 | DFT-QPSK | L | Outer_Full | 4.467 | 5.020 | PASS |
| N13 | 15 | 5 | DFT-PI2BPSK | L | Outer_Full | 4.453 | 4.980 | PASS |
| N13 | 15 | 5 | DFT-16QAM | L | Outer_Full | 4.459 | 4.960 | PASS |
| N13 | 15 | 5 | DFT-64QAM | L | Outer_Full | 4.458 | 5.010 | PASS |
| N13 | 15 | 5 | DFT-256QAM | L | Outer_Full | 4.464 | 4.890 | PASS |
| N13 | 15 | 5 | CP-QPSK | L | Outer_Full | 4.452 | 4.880 | PASS |
| N13 | 15 | 5 | CP-16QAM | L | Outer_Full | 4.473 | 5.080 | PASS |
| N13 | 15 | 5 | CP-64QAM | L | Outer_Full | 4.468 | 4.990 | PASS |
| N13 | 15 | 5 | CP-256QAM | L | Outer_Full | 4.450 | 4.960 | PASS |
| N13 | 15 | 5 | DFT-QPSK | M | Outer_Full | 4.490 | 5.070 | PASS |
| N13 | 15 | 5 | DFT-PI2BPSK | M | Outer_Full | 4.481 | 4.990 | PASS |
| N13 | 15 | 5 | DFT-16QAM | M | Outer_Full | 4.475 | 4.960 | PASS |
| N13 | 15 | 5 | DFT-64QAM | M | Outer_Full | 4.470 | 5.060 | PASS |
| N13 | 15 | 5 | DFT-256QAM | M | Outer_Full | 4.485 | 5.010 | PASS |
| N13 | 15 | 5 | CP-QPSK | M | Outer_Full | 4.48 | 5.110 | PASS |
| N13 | 15 | 5 | CP-16QAM | M | Outer_Full | 4.474 | 5.040 | PASS |
| N13 | 15 | 5 | CP-64QAM | M | Outer_Full | 4.468 | 4.880 | PASS |
| N13 | 15 | 5 | CP-256QAM | M | Outer_Full | 4.501 | 5.100 | PASS |
| N13 | 15 | 5 | DFT-QPSK | H | Outer_Full | 4.479 | 4.950 | PASS |
| N13 | 15 | 5 | DFT-PI2BPSK | H | Outer_Full | 4.479 | 5.000 | PASS |
| N13 | 15 | 5 | DFT-16QAM | H | Outer_Full | 4.467 | 4.960 | PASS |
| N13 | 15 | 5 | DFT-64QAM | H | Outer_Full | 4.471 | 5.040 | PASS |
| N13 | 15 | 5 | DFT-256QAM | H | Outer_Full | 4.473 | 5.050 | PASS |
| N13 | 15 | 5 | CP-QPSK | H | Outer_Full | 4.457 | 4.990 | PASS |
| N13 | 15 | 5 | CP-16QAM | H | Outer_Full | 4.457 | 4.930 | PASS |
| N13 | 15 | 5 | CP-64QAM | H | Outer_Full | 4.471 | 5.050 | PASS |
| N13 | 15 | 5 | CP-256QAM | H | Outer_Full | 4.469 | 5.000 | PASS |
| N13 | 15 | 10 | DFT-QPSK | M | Outer_Full | 8.939 | 9.680 | PASS |
| N13 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | 8.916 | 9.660 | PASS |
| N13 | 15 | 10 | DFT-16QAM | M | Outer_Full | 8.932 | 9.600 | PASS |
| N13 | 15 | 10 | DFT-64QAM | M | Outer_Full | 8.932 | 9.540 | PASS |
| N13 | 15 | 10 | DFT-256QAM | M | Outer_Full | 8.916 | 9.460 | PASS |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| N13 | 15 | 10 | CP-QPSK | M | Outer_Full | 9.271 | 9.960 | PASS |
| N13 | 15 | 10 | CP-16QAM | M | Outer_Full | 9.260 | 9.940 | PASS |
| N13 | 15 | 10 | CP-64QAM | M | Outer_Full | 9.279 | 9.920 | PASS |
| N13 | 15 | 10 | CP-256QAM | M | Outer_Full | 9.267 | 10.140 | PASS |

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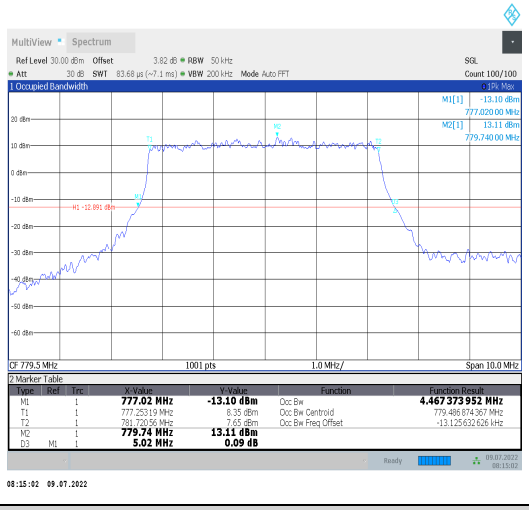
## Test Graphs

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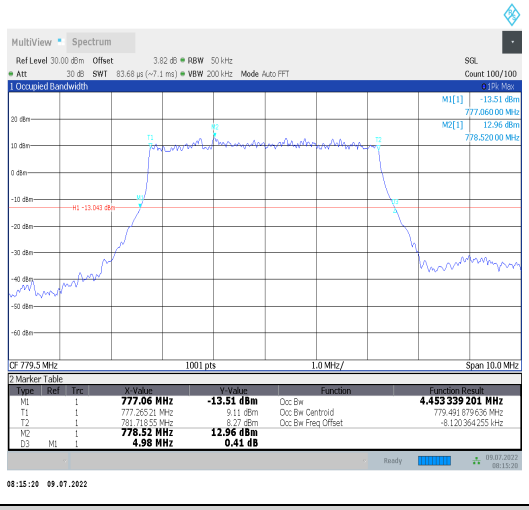


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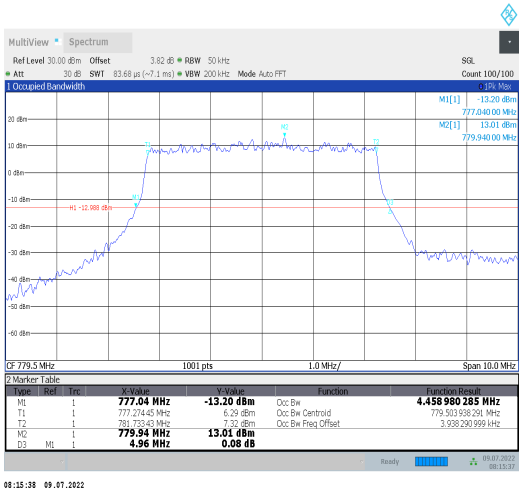


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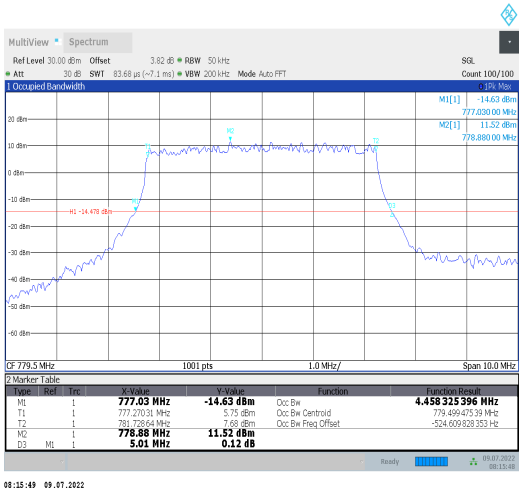


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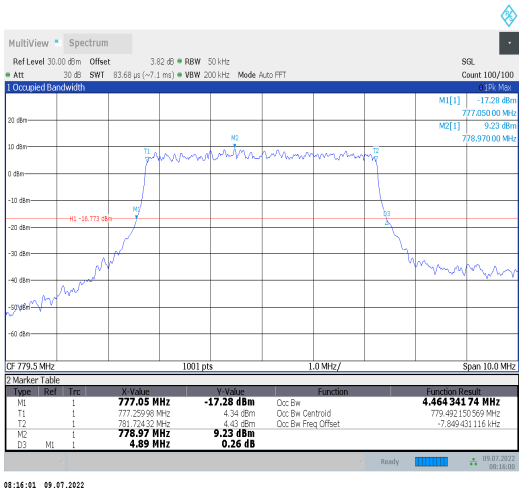


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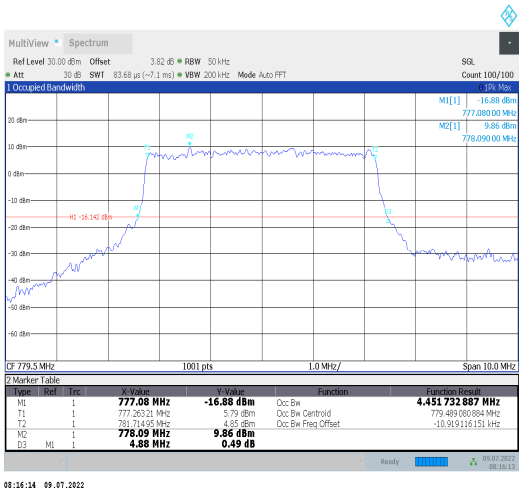


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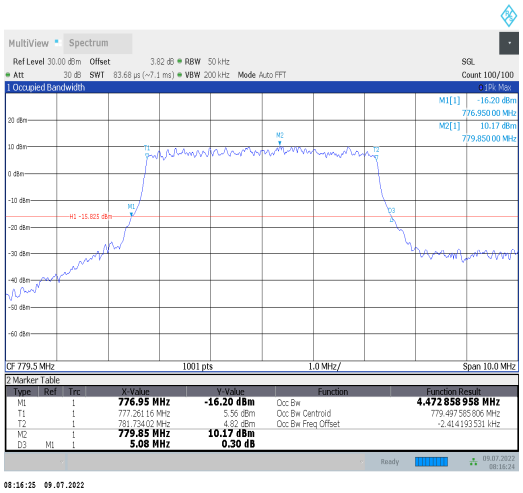
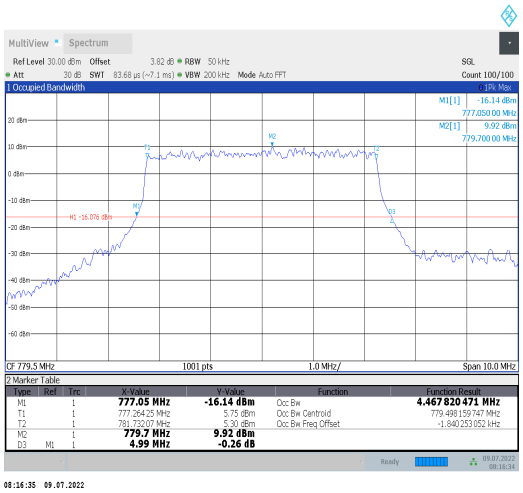



1-N13--15-5-L-7-CP-16QAM-Outer_Full-25@0-Ant1-4.473-5.080-≤5-PASS




1-N13--15-5-L-8-CP-64QAM-Outer_Full-25@0-Ant1-4.468-4.990-≤5-PASS

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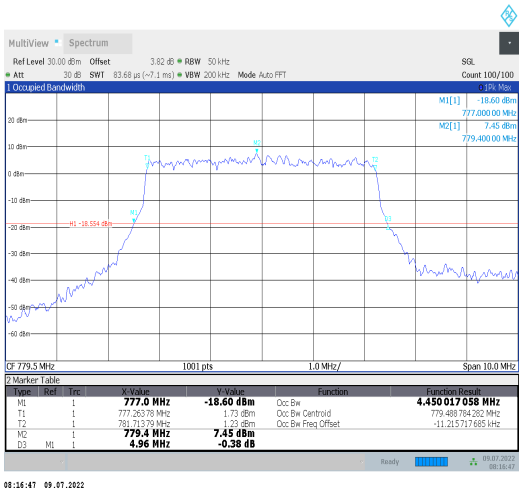


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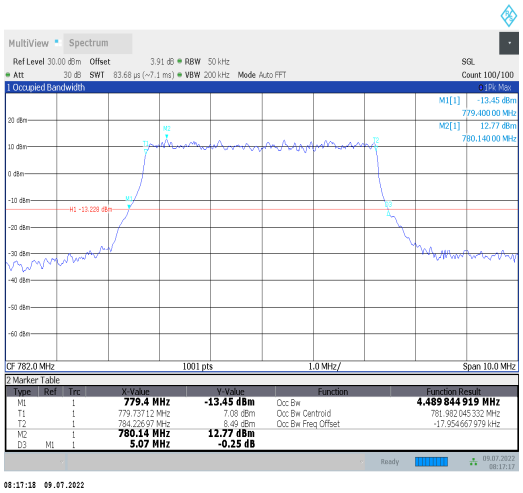


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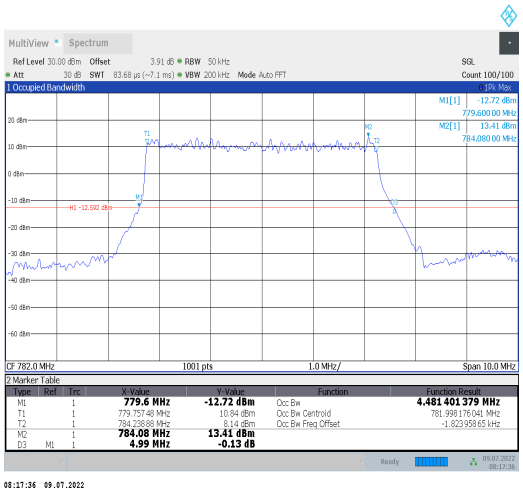


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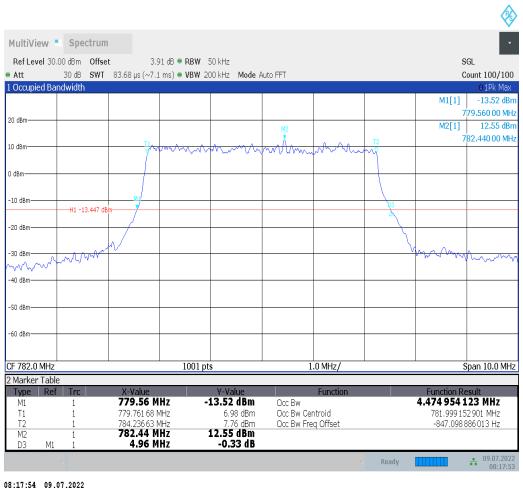


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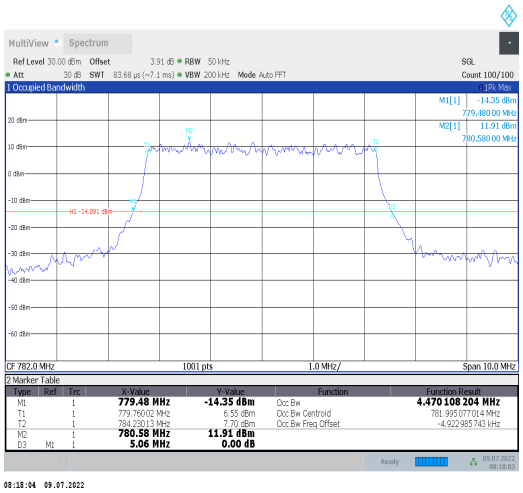


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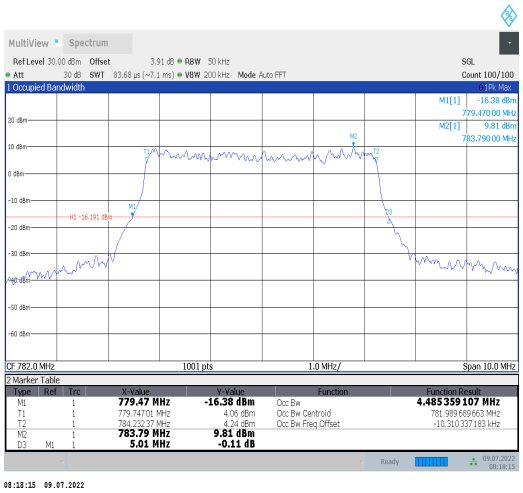


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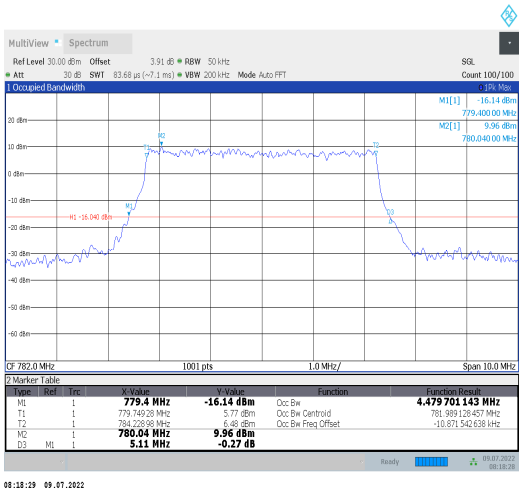


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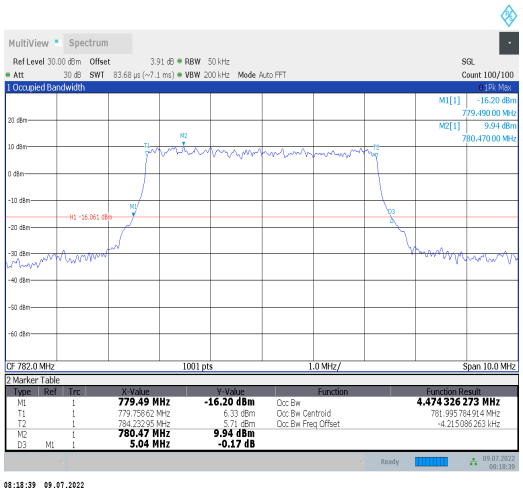


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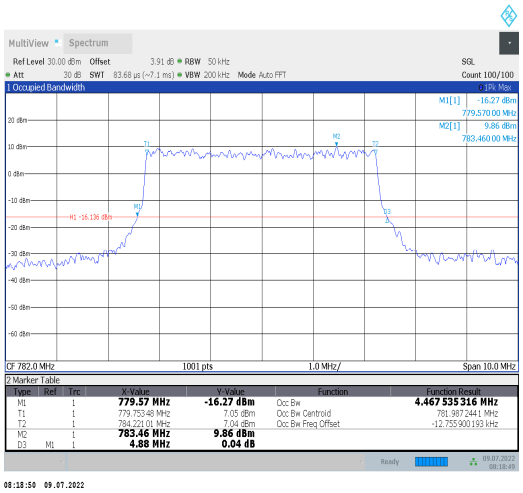


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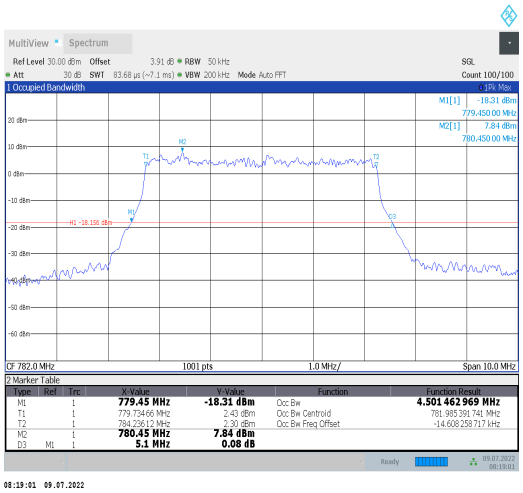


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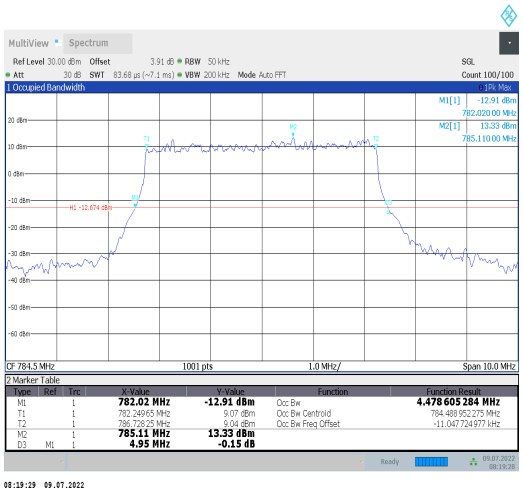


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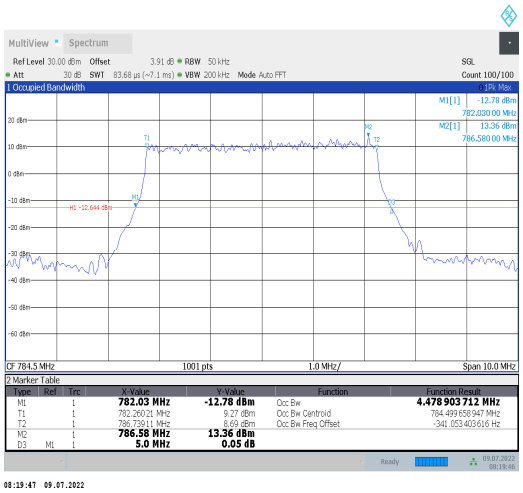


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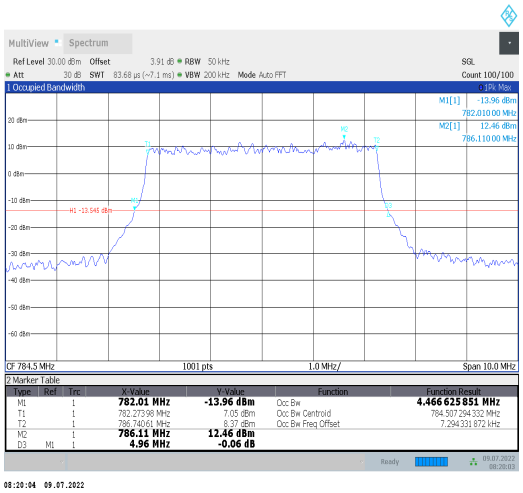


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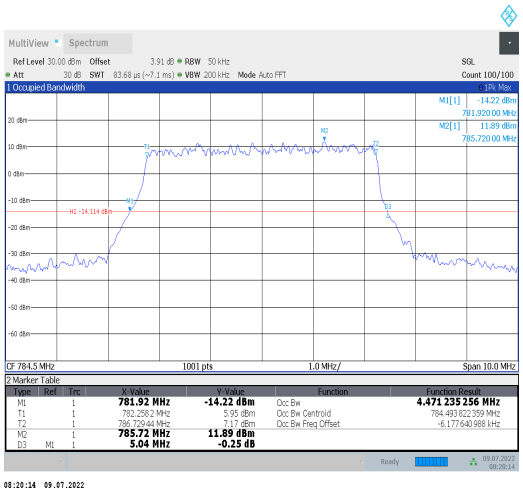


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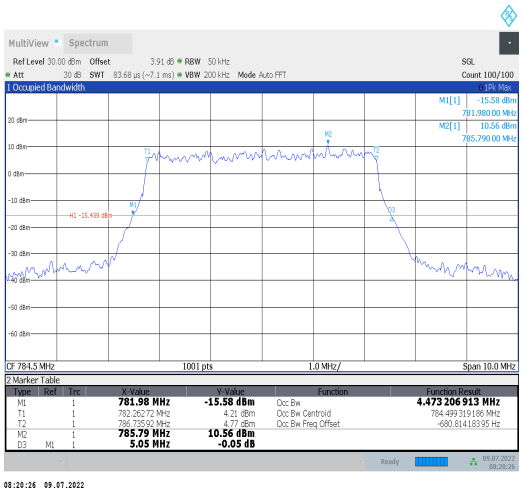


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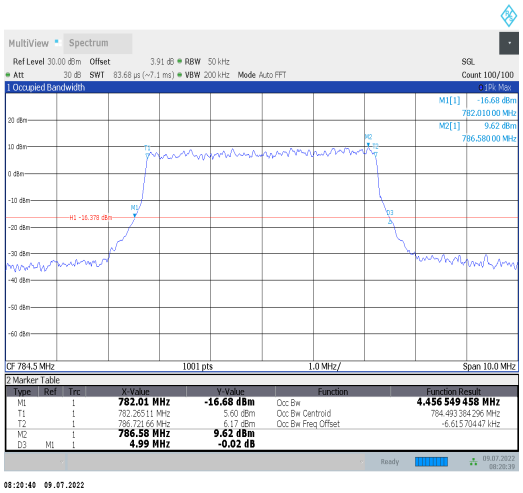


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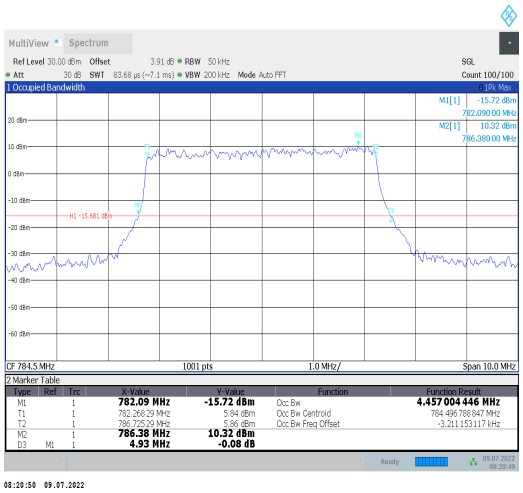


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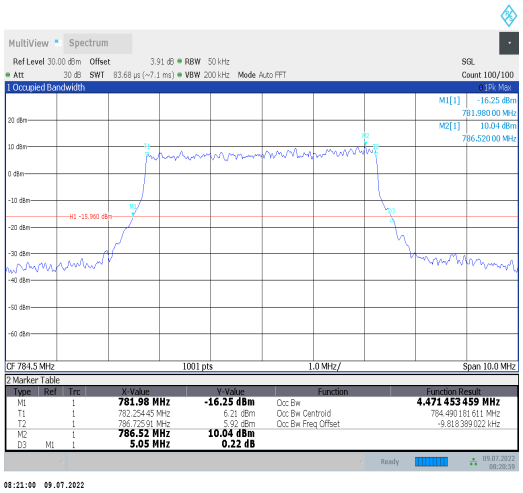


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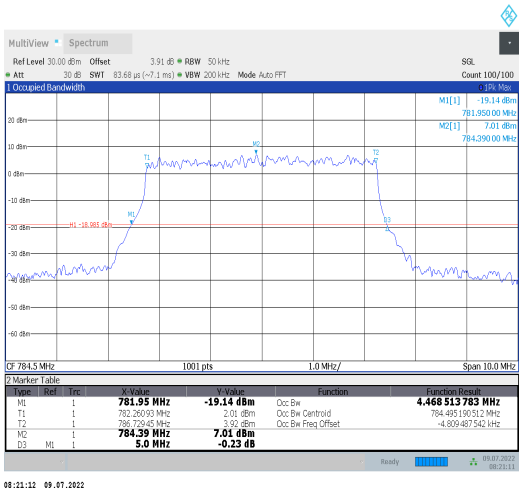


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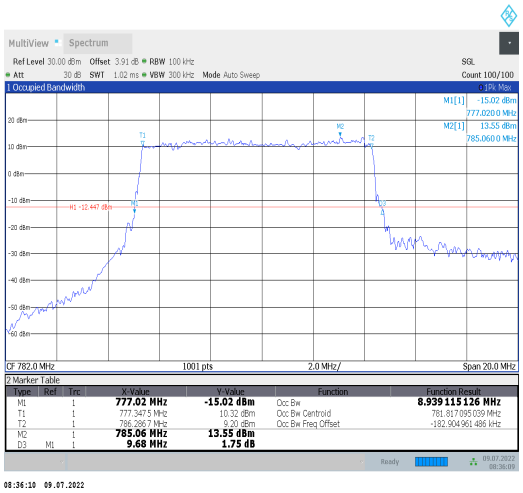


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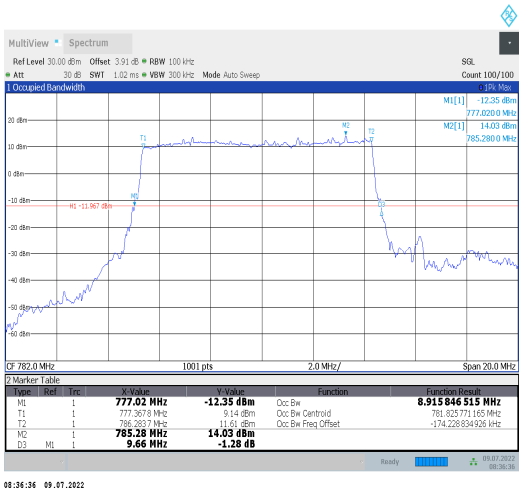


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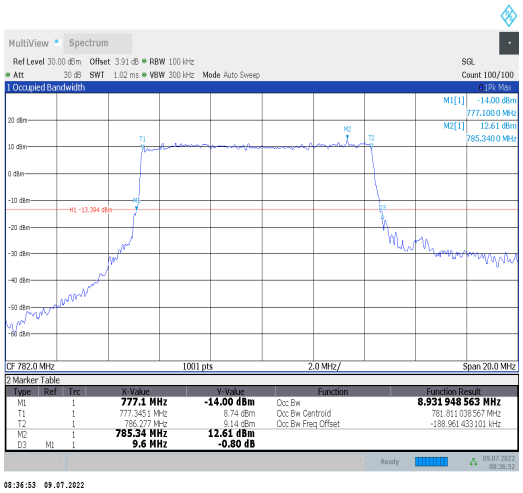


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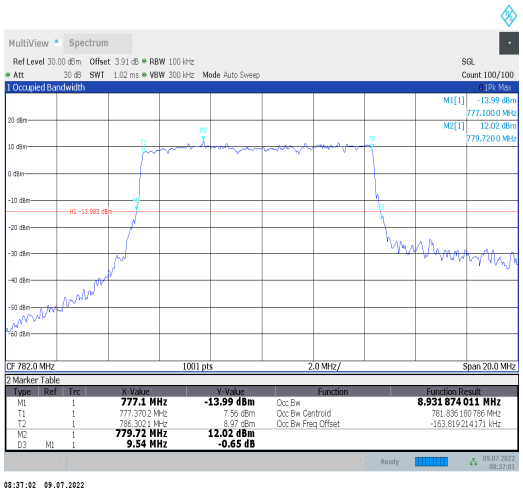


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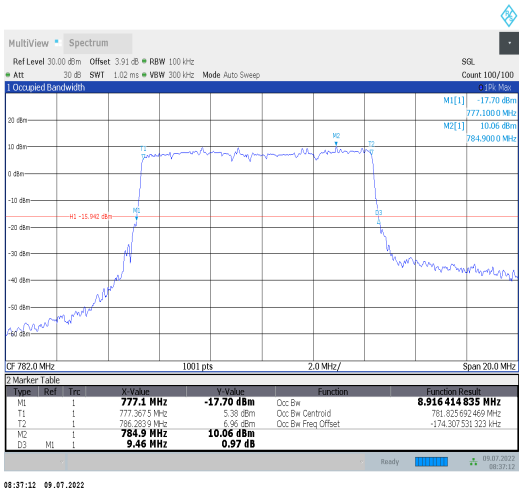


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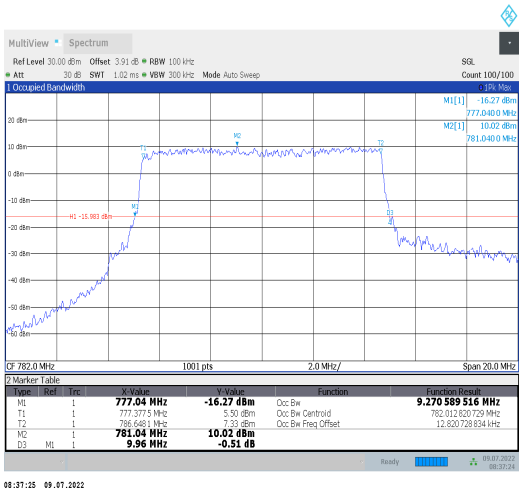


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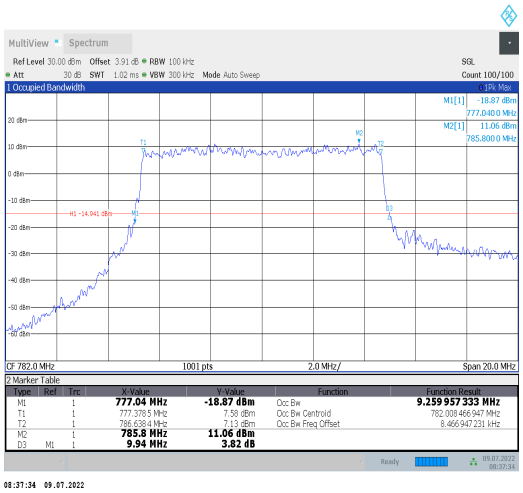


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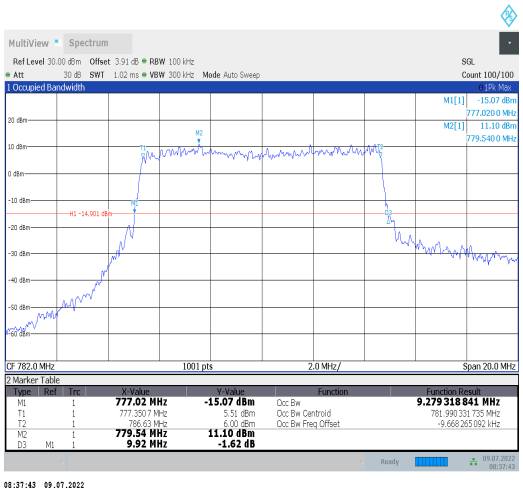


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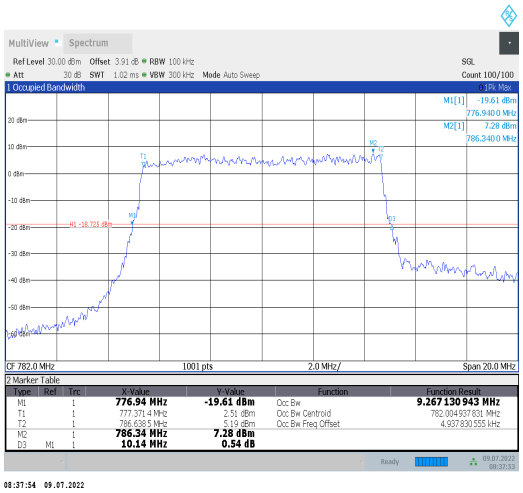


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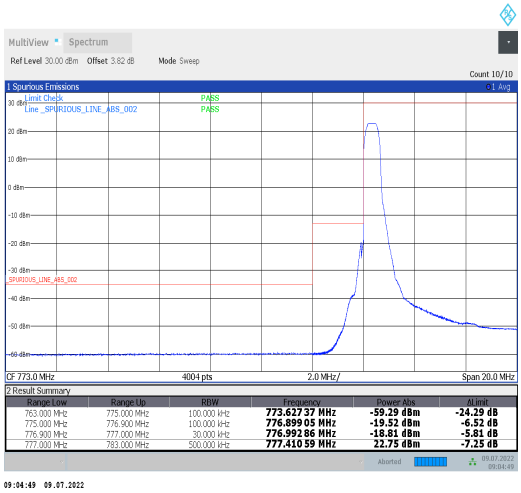
# Band Edge for SA

## Test Graphs

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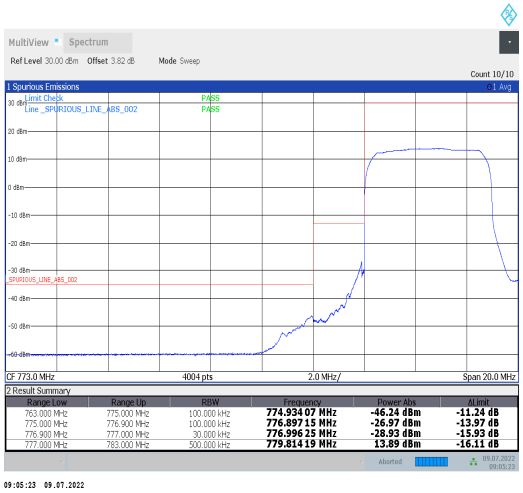


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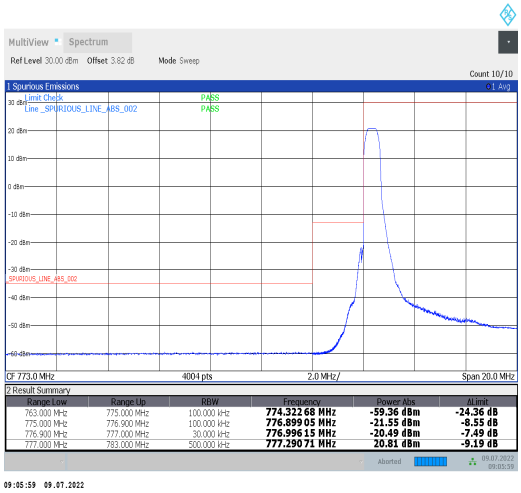


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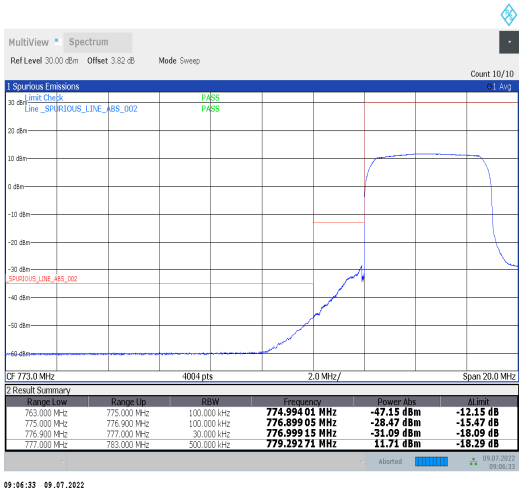


1-N13-PC3-15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant1-PASS-see graph

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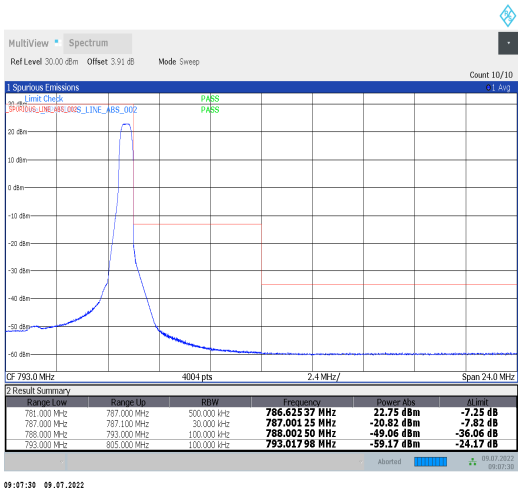


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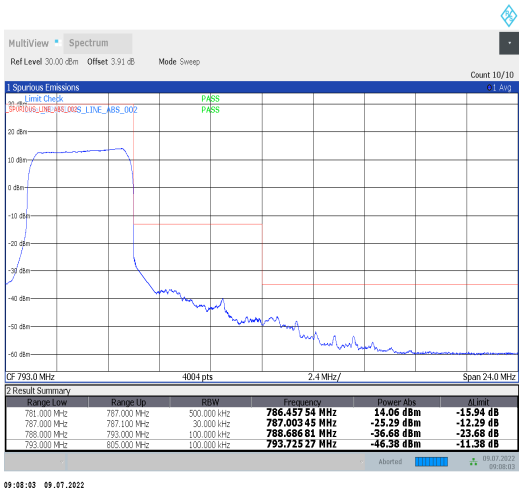


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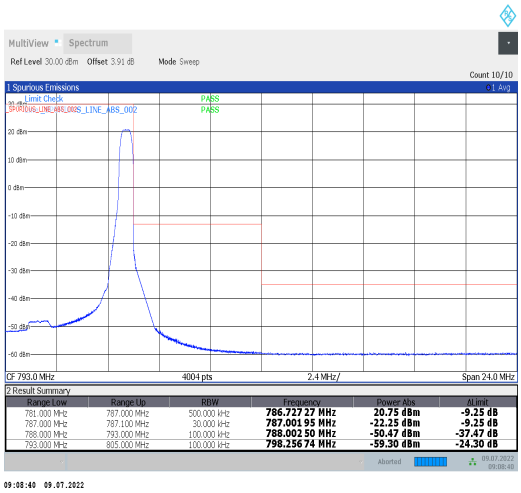


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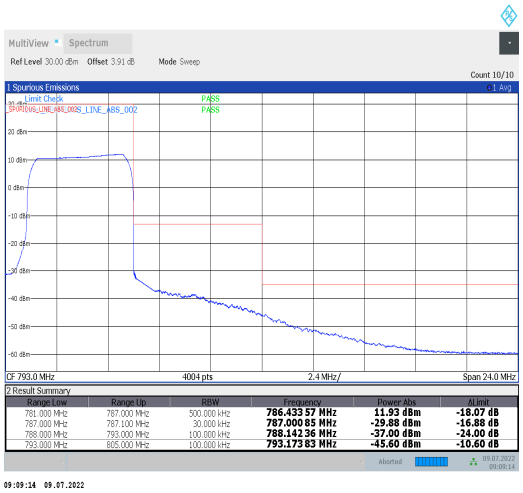


1-N13-PC3-15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant1-PASS-see graph

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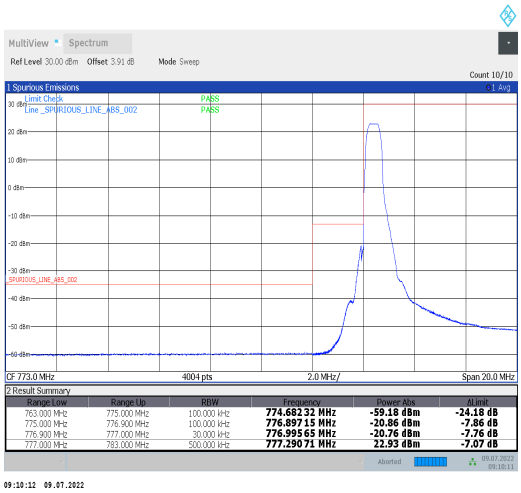


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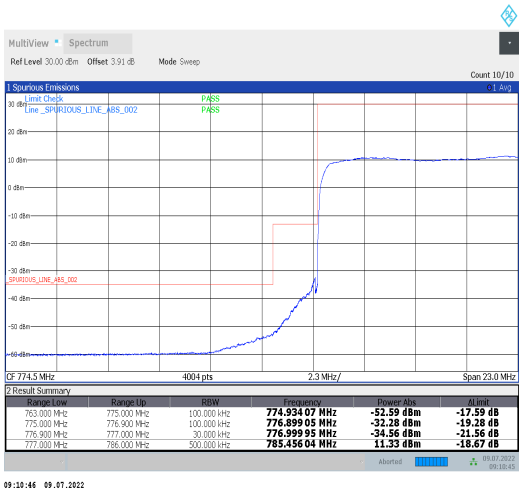


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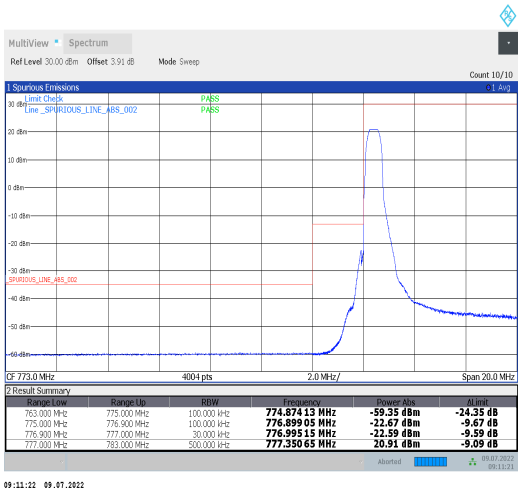


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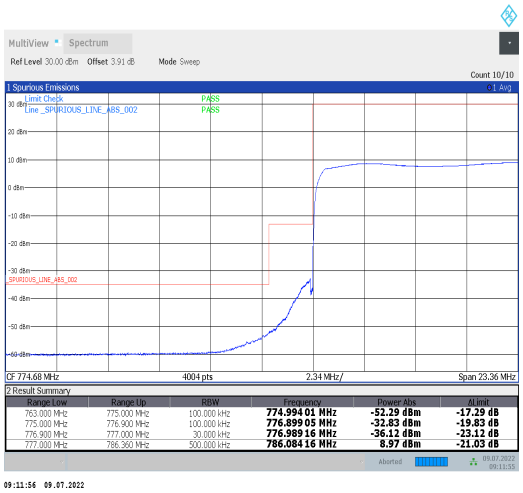


1-N13-PC3-15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant1-PASS-see graph

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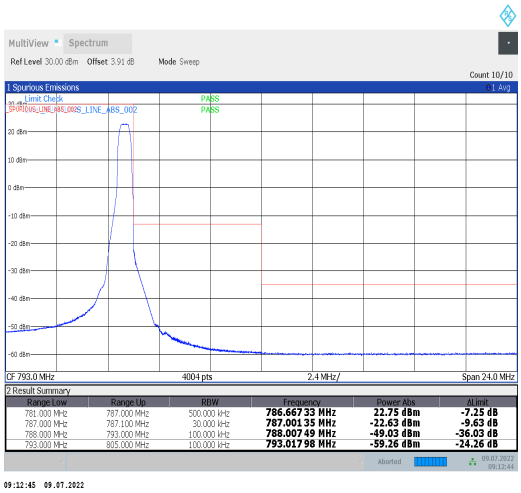


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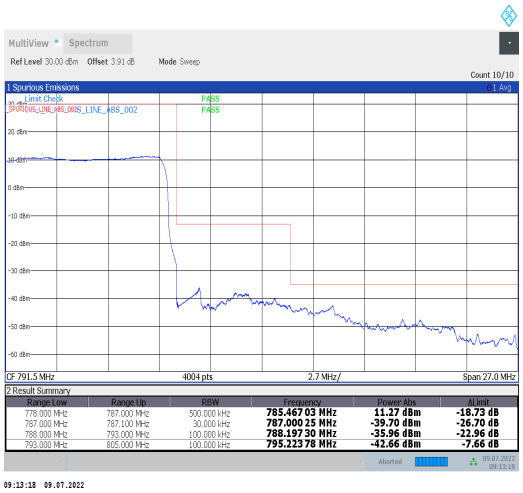


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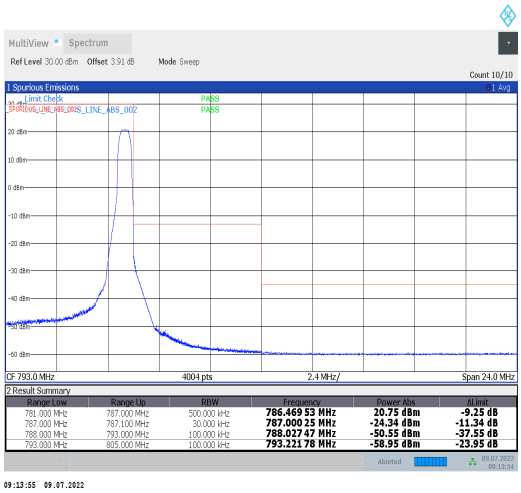


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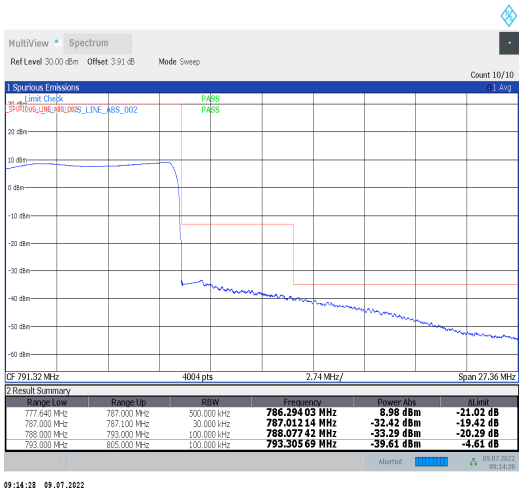


1-N13-PC3-15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant1-PASS-see graph

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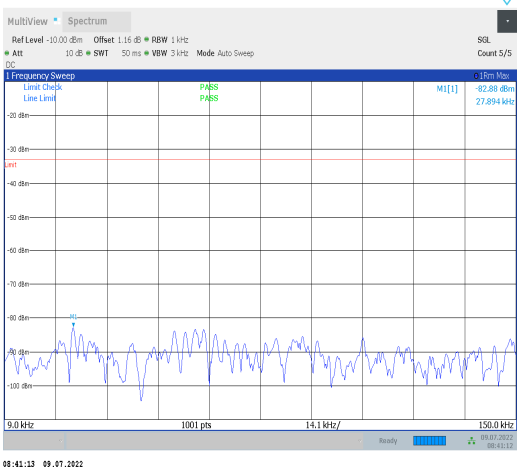
## Conducted Spurious Emission for SA

### Test Graphs

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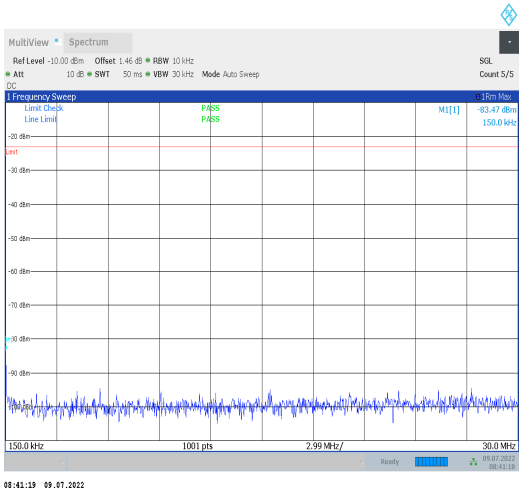


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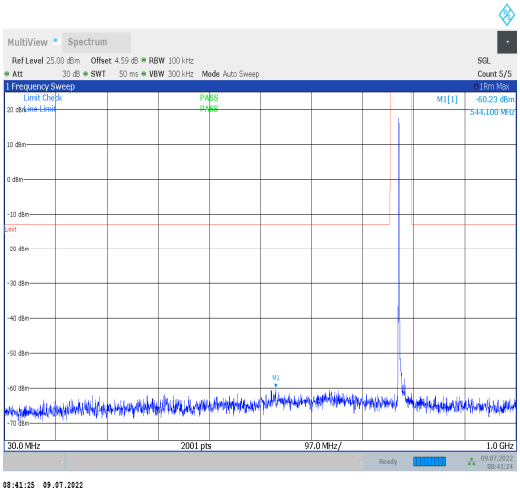


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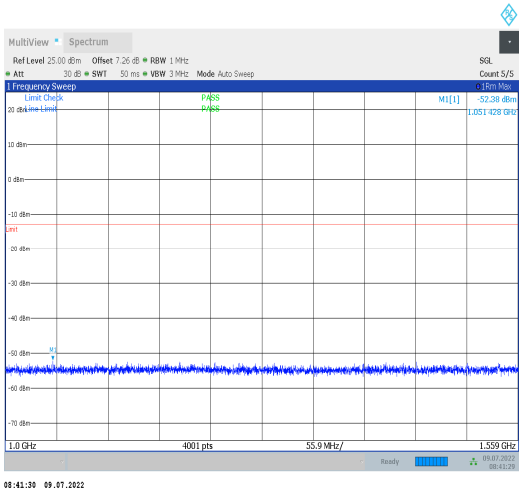


1-N13--15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1 @1-1000-1559-Ant1--52.38--13-PASS

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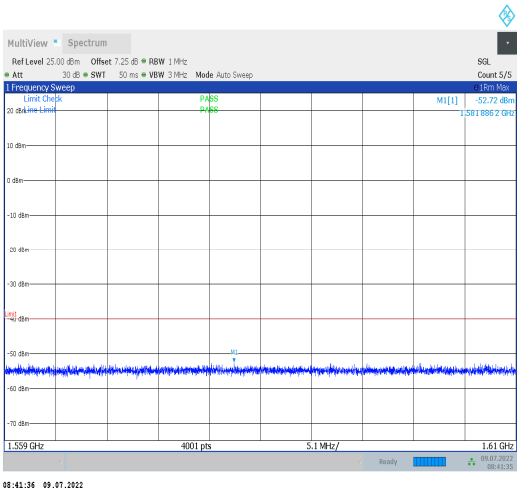


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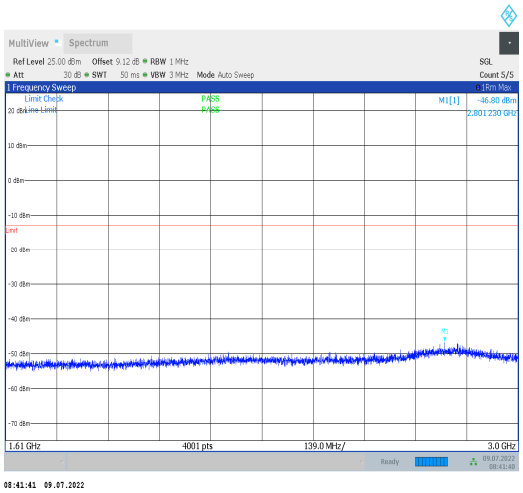


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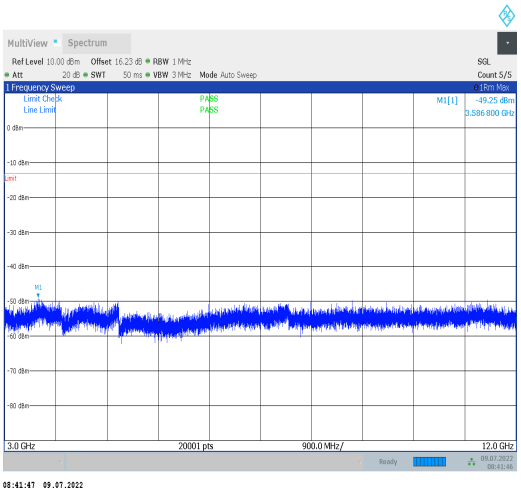


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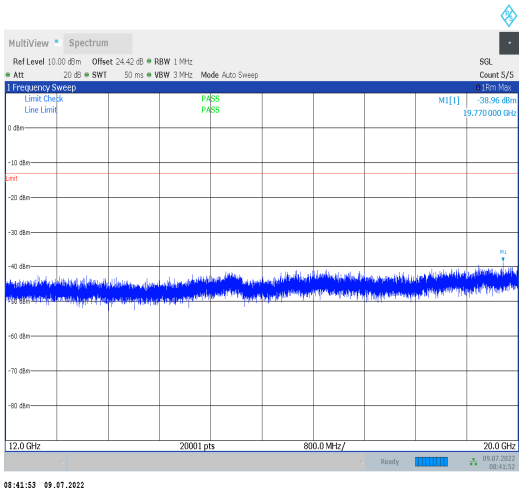


1-N13--15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1 @1-12000-20000-Ant1--38.96--13-PASS

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## Field Strength of Spurious Radiation

### Test Band = SA Band 13 BW 10M_ TM1
### Test Channel = Mid Channel

| Final Data List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1555.18 | 58.56 | -118.21 | -59.65 | -13.00 | 46.65 | 263 | 87 | Horizontal |
| 2 | 2332 | 61.27 | -115.31 | -54.04 | -13.00 | 41.04 | 251 | 54 | Horizontal |
| 3 | 3110.36 | 52.89 | -112.21 | -59.32 | -13.00 | 46.32 | 174 | 357 | Horizontal |
| 4 | 3887.95 | 51.98 | -110.47 | -58.49 | -13.00 | 45.49 | 186 | 34 | Horizontal |
| 5 | 4665.54 | 50.46 | -108.04 | -57.58 | -13.00 | 44.58 | 264 | 15 | Horizontal |
| 6 | 5443.13 | 52.32 | -106.49 | -54.17 | -13.00 | 41.17 | 144 | 34 | Horizontal |

| Final Data List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1555.18 | 53.45 | -118.21 | -64.76 | -13.00 | 51.76 | 263 | 360 | Vertical |
| 2 | 2332.77 | 52.06 | -115.31 | -63.25 | -13.00 | 50.25 | 251 | 360 | Vertical |
| 3 | 3110.36 | 52.15 | -112.21 | -60.06 | -13.00 | 47.06 | 174 | 3 | Vertical |
| 4 | 3887.95 | 50.78 | -110.47 | -59.69 | -13.00 | 46.69 | 186 | 179 | Vertical |
| 5 | 4665.54 | 49.93 | -108.04 | -58.11 | -13.00 | 45.11 | 254 | 83 | Vertical |
| 6 | 5443.13 | 53.36 | -106.49 | -53.13 | -13.00 | 40.13 | 188 | 328 | Vertical |

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**Test Band = SA Band 13 BW 5M_ TM1**
**Test Channel = Low Channel**

| Final Data List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1554.68 | 53.55 | -118.21 | -64.66 | -13.00 | 51.66 | 253 | 267 | Horizontal |
| 2 | 2332.02 | 52.70 | -115.31 | -62.61 | -13.00 | 49.61 | 241 | 151 | Horizontal |
| 3 | 3109.36 | 51.65 | -112.22 | -60.57 | -13.00 | 47.57 | 176 | 224 | Horizontal |
| 4 | 3886.7 | 50.65 | -110.47 | -59.82 | -13.00 | 46.82 | 284 | 277 | Horizontal |
| 5 | 4664.04 | 50.73 | -108.04 | -57.31 | -13.00 | 44.31 | 163 | 224 | Horizontal |
| 6 | 5441.38 | 53.08 | -106.49 | -53.41 | -13.00 | 40.41 | 244 | 236 | Horizontal |

| Final Data List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1554.68 | 53.93 | -118.21 | -64.28 | -13.00 | 51.28 | 263 | 360 | Vertical |
| 2 | 2332.02 | 53.00 | -115.31 | -62.31 | -13.00 | 49.31 | 251 | 338 | Vertical |
| 3 | 3109.36 | 51.99 | -112.22 | -60.23 | -13.00 | 47.23 | 174 | 11 | Vertical |
| 4 | 3886.7 | 51.66 | -110.47 | -58.81 | -13.00 | 45.81 | 262 | 105 | Vertical |
| 5 | 4664.04 | 50.75 | -108.04 | -57.29 | -13.00 | 44.29 | 241 | 316 | Vertical |
| 6 | 5441.38 | 53.13 | -106.49 | -53.36 | -13.00 | 40.36 | 188 | 355 | Vertical |

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**Test Band = SA Band 13 BW 5M_ TM1**
**Test Channel = Mid Channel**

| Final Data List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1559.68 | 69.52 | -118.21 | -48.69 | -40.00 | 8.69 | 263 | 205 | Horizontal |
| 2 | 2339.52 | 83.13 | -115.29 | -32.16 | -13.00 | 19.16 | 251 | 357 | Horizontal |
| 3 | 3119.36 | 52.22 | -112.19 | -59.97 | -13.00 | 46.97 | 144 | 277 | Horizontal |
| 4 | 3899.2 | 50.68 | -110.43 | -59.75 | -13.00 | 46.75 | 265 | 119 | Horizontal |
| 5 | 4679.04 | 50.51 | -107.99 | -57.48 | -13.00 | 44.48 | 244 | 76 | Horizontal |
| 6 | 5458.88 | 52.21 | -106.48 | -54.27 | -13.00 | 41.27 | 178 | 309 | Horizontal |

| Final Data List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1559.68 | 55.47 | -118.21 | -62.74 | -40.00 | 22.74 | 263 | 242 | Vertical |
| 2 | 2339.52 | 59.36 | -115.29 | -55.93 | -13.00 | 42.93 | 251 | 276 | Vertical |
| 3 | 3119.36 | 52.09 | -112.19 | -60.10 | -13.00 | 47.10 | 174 | 360 | Vertical |
| 4 | 3899.2 | 50.82 | -110.43 | -59.61 | -13.00 | 46.61 | 186 | 352 | Vertical |
| 5 | 4679.04 | 50.65 | -107.99 | -57.34 | -13.00 | 44.34 | 264 | 211 | Vertical |
| 6 | 5458.88 | 51.47 | -106.48 | -55.01 | -13.00 | 42.01 | 188 | 190 | Vertical |

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**Test Band = SA Band 13 BW 5M_ TM1**
**Test Channel = High Channel**

| Final Data List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1564 | 67.40 | -118.21 | -50.81 | -40.00 | 10.81 | 263 | 96 | Horizontal |
| 2 | 2347.02 | 95.97 | -115.27 | -19.30 | -13.00 | 6.30 | 251 | 2 | Horizontal |
| 3 | 3129.36 | 51.72 | -112.17 | -60.45 | -13.00 | 47.45 | 174 | 64 | Horizontal |
| 4 | 3911.7 | 51.03 | -110.40 | -59.37 | -13.00 | 46.37 | 162 | 266 | Horizontal |
| 5 | 4694.04 | 51.24 | -107.94 | -56.70 | -13.00 | 43.70 | 241 | 43 | Horizontal |
| 6 | 5476.38 | 51.28 | -106.46 | -55.18 | -13.00 | 42.18 | 188 | 138 | Horizontal |

| Final Data List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1564 | 69.14 | -118.21 | -49.07 | -40.00 | 9.07 | 152 | 32 | Vertical |
| 2 | 2346 | 89.10 | -115.28 | -26.18 | -13.00 | 13.18 | 263 | 180 | Vertical |
| 3 | 3129.36 | 52.19 | -112.17 | -59.98 | -13.00 | 46.98 | 241 | 137 | Vertical |
| 4 | 3911.7 | 50.74 | -110.40 | -59.66 | -13.00 | 46.66 | 176 | 137 | Vertical |
| 5 | 4694.04 | 51.00 | -107.94 | -56.94 | -13.00 | 43.94 | 264 | 11 | Vertical |
| 6 | 5476.38 | 51.94 | -106.46 | -54.52 | -13.00 | 41.52 | 188 | 327 | Vertical |

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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 |
| N13 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | VH | NT | 2.700000 | 0.003453 | PASS |
| N13 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | VN | NT | 1.000000 | 0.001279 | PASS |
| N13 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | VL | NT | 2.900000 | 0.003708 | PASS |
| N13 | 15 | 10 | CP-QPSK | M | Outer_Full | VH | NT | 0.300000 | 0.000384 | PASS |
| N13 | 15 | 10 | CP-QPSK | M | Outer_Full | VN | NT | 1.900000 | 0.002430 | PASS |
| N13 | 15 | 10 | CP-QPSK | M | Outer_Full | VL | NT | 2.900000 | 0.003708 | PASS |

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## Frequency Error VS. Temperature

| Voltage | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N13 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | NV | -30 | 1.000000 | 0.001279 | PASS |
| N13 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | NV | -20 | 1.100000 | 0.001407 | PASS |
| N13 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | NV | -10 | 4.000000 | 0.005115 | PASS |
| N13 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | NV | 0 | 2.300000 | 0.002941 | PASS |
| N13 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | NV | 10 | 1.300000 | 0.001662 | PASS |
| N13 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | NV | 20 | 3.100000 | 0.003964 | PASS |
| N13 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | NV | 30 | 0.200000 | 0.000256 | PASS |
| N13 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | NV | 40 | -0.600000 | -0.000767 | PASS |
| N13 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | NV | 50 | 2.400000 | 0.003069 | PASS |
| N13 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | -30 | 3.200000 | 0.004092 | PASS |
| N13 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | -20 | 2.200000 | 0.002813 | PASS |
| N13 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | -10 | 5.900000 | 0.007545 | PASS |
| N13 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | 0 | 4.300000 | 0.005499 | PASS |
| N13 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | 10 | 4.200000 | 0.005371 | PASS |
| N13 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | 20 | 4.500000 | 0.005754 | PASS |
| N13 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | 30 | 3.800000 | 0.004859 | PASS |
| N13 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | 40 | 0.100000 | 0.000128 | PASS |
| N13 | 15 | 10 | CP-QPSK | M | Outer_Full | NV | 50 | 1.200000 | 0.001535 | PASS |

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