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Appendix B.10

LTE Band 13



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B13_5MHz_ERP

1.1.1 Test Result

| | | | | 3 / Bandwidth: 5MHz / | NTNV | | | |
|------------|-----------|------|---------|-----------------------|-------|--------|---------|---------|
| Modulation | Frequency | | ocation | Conducted Power | Gain | ERP | (dBm) | Verdict |
| Modulation | (MHz) | Size | Offset | (dBm) | (dBi) | Result | Limit | Veruici |
| | | | 0 | 23.70 | -2.11 | 19.44 | <=34.77 | Pass |
| | | 1 | 13 | 23.70 | -2.11 | 19.44 | <=34.77 | Pass |
| | | | 24 | 23.68 | -2.11 | 19.42 | <=34.77 | Pass |
| | 779.5 | | 0 | 22.64 | -2.11 | 18.38 | <=34.77 | Pass |
| | | 12 | 6 | 22.63 | -2.11 | 18.37 | <=34.77 | Pass |
| | | | 13 | 22.60 | -2.11 | 18.34 | <=34.77 | Pass |
| | | 25 | 0 | 22.63 | -2.11 | 18.37 | <=34.77 | Pass |
| | | | 0 | 23.68 | -2.11 | 19.42 | <=34.77 | Pass |
| | | 1 | 13 | 23.66 | -2.11 | 19.40 | <=34.77 | Pass |
| | | | 24 | 23.69 | -2.11 | 19.43 | <=34.77 | Pass |
| QPSK | 782 | | 0 | 22.68 | -2.11 | 18.42 | <=34.77 | Pass |
| | | 12 | 6 | 22.63 | -2.11 | 18.37 | <=34.77 | Pass |
| | | | 13 | 22.62 | -2.11 | 18.36 | <=34.77 | Pass |
| | | 25 | 0 | 22.70 | -2.11 | 18.44 | <=34.77 | Pass |
| | | | 0 | 23.71 | -2.11 | 19.45 | <=34.77 | Pass |
| | | 1 | 13 | 23.71 | -2.11 | 19.45 | <=34.77 | Pass |
| | | | 24 | 23.69 | -2.11 | 19.43 | <=34.77 | Pass |
| | 784.5 | | 0 | 22.65 | -2.11 | 18.39 | <=34.77 | Pass |
| | | 12 | 6 | 22.65 | -2.11 | 18.39 | <=34.77 | Pass |
| | | | 13 | 22.73 | -2.11 | 18.47 | <=34.77 | Pass |
| | | 25 | 0 | 22.71 | -2.11 | 18.45 | <=34.77 | Pass |
| | | | 0 | 22.57 | -2.11 | 18.31 | <=34.77 | Pass |
| | | 1 | 13 | 22.55 | -2.11 | 18.29 | <=34.77 | Pass |
| | | | 24 | 22.55 | -2.11 | 18.29 | <=34.77 | Pass |
| | 779.5 | | 0 | 21.66 | -2.11 | 17.40 | <=34.77 | Pass |
| | | 12 | 6 | 21.63 | -2.11 | 17.37 | <=34.77 | Pass |
| | | | 13 | 21.59 | -2.11 | 17.33 | <=34.77 | Pass |
| | | 25 | 0 | 21.68 | -2.11 | 17.42 | <=34.77 | Pass |
| | | | 0 | 22.97 | -2.11 | 18.71 | <=34.77 | Pass |
| 100011 | | 1 | 13 | 22.94 | -2.11 | 18.68 | <=34.77 | Pass |
| 16QAM | | | 24 | 22.98 | -2.11 | 18.72 | <=34.77 | Pass |
| | 782 | | 0 | 21.73 | -2.11 | 17.47 | <=34.77 | Pass |
| | | 12 | 6 | 21.69 | -2.11 | 17.43 | <=34.77 | Pass |
| | | | 13 | 21.68 | -2.11 | 17.42 | <=34.77 | Pass |
| | | 25 | 0 | 21.67 | -2.11 | 17.41 | <=34.77 | Pass |
| | | | 0 | 22.85 | -2.11 | 18.59 | <=34.77 | Pass |
| | 704 - | 1 | 13 | 22.85 | -2.11 | 18.59 | <=34.77 | Pass |
| | 784.5 | | 24 | 22.83 | -2.11 | 18.57 | <=34.77 | Pass |
| | | 12 | 0 | 21.64 | -2.11 | 17.38 | <=34.77 | Pass |



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| | | | | . 45 | , | | | |
|------------|---------------|--------------|--------------|---------------------------------------|--------------|--------------|---------|---------|
| | | | 6 | 21.65 | -2.11 | 17.39 | <=34.77 | Pass |
| | | | 13 | 21.70 | -2.11 | 17.44 | <=34.77 | Pass |
| | | 25 | 0 | 21.71 | -2.11 | 17.45 | <=34.77 | Pass |
| | | | 0 | 21.68 | -2.11 | 17.42 | <=34.77 | Pass |
| | | 1 | 13 | 21.64 | -2.11 | 17.38 | <=34.77 | Pass |
| | | | 24 | 21.64 | -2.11 | 17.38 | <=34.77 | Pass |
| | 779.5 | | 0 | 20.61 | -2.11 | 16.35 | <=34.77 | Pass |
| | | 12 | 6 | 20.56 | -2.11 | 16.30 | <=34.77 | Pass |
| | | | 13 | 20.53 | -2.11 | 16.27 | <=34.77 | Pass |
| | | 25 | 0 | 20.63 | -2.11 | 16.37 | <=34.77 | Pass |
| | | | 0 | 21.86 | -2.11 | 17.60 | <=34.77 | Pass |
| | | 1 | 13 | 21.86 | -2.11 | 17.60 | <=34.77 | Pass |
| | | | 24 | 21.89 | -2.11 | 17.63 | <=34.77 | Pass |
| 64QAM | 782 | | 0 | 20.72 | -2.11 | 16.46 | <=34.77 | Pass |
| | | 12 | 6 | 20.66 | -2.11 | 16.40 | <=34.77 | Pass |
| | | | 13 | 20.63 | -2.11 | 16.37 | <=34.77 | Pass |
| | | 25 | 0 | 20.73 | -2.11 | 16.47 | <=34.77 | Pass |
| | | | 0 | 21.88 | -2.11 | 17.62 | <=34.77 | Pass |
| | | 1 | 13 | 21.86 | -2.11 | 17.60 | <=34.77 | Pass |
| | | | 24 | 21.87 | -2.11 | 17.61 | <=34.77 | Pass |
| | 784.5 | | 0 | 20.79 | -2.11 | 16.53 | <=34.77 | Pass |
| | | 12 | 6 | 20.78 | -2.11 | 16.52 | <=34.77 | Pass |
| | | | 13 | 20.80 | -2.11 | 16.54 | <=34.77 | Pass |
| | | 25 | 0 | 20.68 | -2.11 | 16.42 | <=34.77 | Pass |
| Note1: ERI | P=Conducted F | Power+Anteni | na Gain-2.15 | · · · · · · · · · · · · · · · · · · · | - | - | | <u></u> |
| | | | | | | | | |



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1.2 B13_10MHz_ERP

1.2.1 Test Result

| | | | Band: 13 | 3 / Bandwidth: 10MHz / | NTNV | | | |
|------------|---------------|------------|--------------|------------------------|-------|--------|---------|---------|
| Modulation | Frequency | RB Allo | ocation | Conducted Power | Gain | ERP | (dBm) | Verdict |
| Modulation | (MHz) | Size | Offset | (dBm) | (dBi) | Result | Limit | verdict |
| | | | 0 | 23.67 | -2.11 | 19.41 | <=34.77 | Pass |
| | | 1 | 25 | 23.62 | -2.11 | 19.36 | <=34.77 | Pass |
| | | | 49 | 23.62 | -2.11 | 19.36 | <=34.77 | Pass |
| QPSK | 782 | | 0 | 22.71 | -2.11 | 18.45 | <=34.77 | Pass |
| | | 25 | 13 | 22.64 | -2.11 | 18.38 | <=34.77 | Pass |
| | | | 25 | 22.68 | -2.11 | 18.42 | <=34.77 | Pass |
| | | 50 | 0 | 22.72 | -2.11 | 18.46 | <=34.77 | Pass |
| | | | 0 | 23.29 | -2.11 | 19.03 | <=34.77 | Pass |
| | | 82 25 | 25 | 23.24 | -2.11 | 18.98 | <=34.77 | Pass |
| | | | 49 | 23.27 | -2.11 | 19.01 | <=34.77 | Pass |
| 16QAM | 782 | | 0 | 21.76 | -2.11 | 17.50 | <=34.77 | Pass |
| | | | 13 | 21.68 | -2.11 | 17.42 | <=34.77 | Pass |
| | | | 25 | 21.72 | -2.11 | 17.46 | <=34.77 | Pass |
| | | 50 | 0 | 21.71 | -2.11 | 17.45 | <=34.77 | Pass |
| | | | 0 | 21.96 | -2.11 | 17.70 | <=34.77 | Pass |
| | | 1 | 25 | 21.91 | -2.11 | 17.65 | <=34.77 | Pass |
| | | | 49 | 21.92 | -2.11 | 17.66 | <=34.77 | Pass |
| 64QAM | 782 | | 0 | 20.73 | -2.11 | 16.47 | <=34.77 | Pass |
| | | 25 | 13 | 20.66 | -2.11 | 16.40 | <=34.77 | Pass |
| | | | 25 | 20.71 | -2.11 | 16.45 | <=34.77 | Pass |
| | | 50 | 0 | 20.73 | -2.11 | 16.47 | <=34.77 | Pass |
| Note1: ERI | P=Conducted P | ower+Anten | na Gain-2.15 | 5 | | | | |



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2. Frequency Stability

2.1 B13_5MHz

2.1.1 Test Result

| | | | | | 3 / Bandwid | | | · · · · · · · · · · · · · · · · | | | | |
|-------------|-----------|------|---------|-------|-------------|-------------|----------------|---------------------------------|---------|------|-------|--------|
| Modulation | Frequency | | ocation | Temp. | Voltage | Freq. Error | | Rated (ppm) | Verdict | | | |
| | (MHz) | Size | Offset | (°C) | (VDC) | (Hz) | Result | Limit | | | | |
| | | | | | 3.5 | 1.531 | 0.0020 | / | Pass | | | |
| | | | | 20 | 3.87 | 0.869 | 0.0011 | / | Pass | | | |
| | | | | | 4.45 | 1.685 | 0.0022 | / | Pass | | | |
| | | | | | -30 | 3.87 | -2.905 | -0.0037 | / | Pass | | |
| | | | | -20 | 3.87 | -0.933 | -0.0012 | / | Pass | | | |
| | 779.5 | 25 | 0 | -10 | 3.87 | 4.050 | 0.0052 | / | Pass | | | |
| | | | | 0 | 3.87 | 0.067 | 0.0001 | / | Pass | | | |
| | | | | 10 | 3.87 | 1.132 | 0.0015 | / | Pass | | | |
| | | | | 30 | 3.87 | -3.055 | -0.0039 | / | Pass | | | |
| | | | | 40 | 3.87 | 0.699 | 0.0009 | / | Pass | | | |
| | | | | 50 | 3.87 | 1.631 | 0.0021 | / | Pass | | | |
| | | | | | 3.5 | -2.304 | -0.0029 | / | Pass | | | |
| | | | | 20 | 3.87 | -1.135 | -0.0015 | / | Pass | | | |
| | | | | | 4.45 | -1.432 | -0.0018 | / | Pass | | | |
| | | | | -30 | 3.87 | -1.349 | -0.0017 | / | Pass | | | |
| | | | 25 0 | | -20 | 3.87 | 3.441 | 0.0044 | / | Pass | | |
| QPSK | 782 | 25 | | -10 | 3.87 | 0.017 | 0.0000 | / | Pass | | | |
| | | | | 0 | 3.87 | -3.068 | -0.0039 | / | Pass | | | |
| | | | | 10 | 3.87 | 0.214 | 0.0003 | / | Pass | | | |
| | | | | | 30 | 3.87 | 1.018 | 0.0013 | / | Pass | | |
| | | | | 40 | 3.87 | -3.270 | -0.0042 | / | Pass | | | |
| | | | | 50 | 3.87 | -1.257 | -0.0016 | / | Pass | | | |
| - | | | | | | 3.5 | 1.270 | 0.0016 | / | Pass | | |
| | | | | | | | | | 20 | 3.87 | 1.129 | 0.0014 |
| | | | | | 4.45 | -1.027 | -0.0013 | / | Pass | | | |
| | | | | -30 | 3.87 | -2.613 | -0.0033 | / | Pass | | | |
| | | | | -20 | 3.87 | -1.485 | -0.0019 | / | Pass | | | |
| | 784.5 | 25 | 0 | -10 | 3.87 | -2.204 | -0.0028 | / | Pass | | | |
| | | - | | 0 | 3.87 | -2.741 | -0.0035 | / | Pass | | | |
| | | | | 10 | 3.87 | 0.565 | 0.0007 | / | Pass | | | |
| | | | | 30 | 3.87 | 0.458 | 0.0006 | / | Pass | | | |
| | | | | 40 | 3.87 | -4.446 | -0.0057 | | Pass | | | |
| | | | | 50 | 3.87 | -0.962 | -0.0012 | | Pass | | | |
| | | | | | 3.5 | -0.562 | -0.0007 | | Pass | | | |
| | | | | 20 | 3.87 | -0.107 | -0.0001 | / | Pass | | | |
| 16QAM 779.5 | | | | 4.45 | -1.419 | -0.0018 | ' / | Pass | | | | |
| | 25 | 0 - | -30 | 3.87 | 3.352 | 0.0043 | | Pass | | | | |
| | | | -20 | 3.87 | -0.742 | -0.0010 | | Pass | | | | |
| | | | | -10 | 3.87 | 0.897 | 0.0010 | / | Pass | | | |



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| | | 1 | 1 | | | i age. | 0 01 00 | | |
|-------|-------|----|---|----------|------|--------|---------|---|------|
| | | | | 0 | 3.87 | -2.071 | -0.0027 | / | Pass |
| | | | | 10 | 3.87 | -1.166 | -0.0015 | / | Pass |
| | | | | 30 | 3.87 | 4.177 | 0.0054 | / | Pass |
| | | | | 40 | 3.87 | 0.250 | 0.0003 | / | Pass |
| | | | | 50 | 3.87 | -0.752 | -0.0010 | / | Pass |
| | | | | | 3.5 | -2.308 | -0.0030 | / | Pass |
| | | | | 20 | 3.87 | 4.896 | 0.0063 | / | Pass |
| | | | | | 4.45 | 3.128 | 0.0040 | / | Pass |
| | | | | -30 | 3.87 | 1.902 | 0.0024 | / | Pass |
| | | | | -20 | 3.87 | -3.093 | -0.0040 | / | Pass |
| | 782 | 25 | 0 | -10 | 3.87 | -3.342 | -0.0043 | / | Pass |
| | | | | 0 | 3.87 | 1.996 | 0.0026 | / | Pass |
| | | | | 10 | 3.87 | 0.538 | 0.0007 | / | Pass |
| | | | | 30 | 3.87 | -3.662 | -0.0047 | / | Pass |
| | | | | 40 | 3.87 | 1.344 | 0.0017 | / | Pass |
| | | | | 50 | 3.87 | 2.510 | 0.0032 | / | Pass |
| | | | | | 3.5 | -2.340 | -0.0030 | / | Pass |
| | | | | 20 | 3.87 | -2.372 | -0.0030 | | Pass |
| | | | | | 4.45 | -1.878 | -0.0024 | , | Pass |
| | | | | -30 | 3.87 | -2.789 | -0.0036 | 1 | Pass |
| | | | | -20 | 3.87 | 0.135 | 0.0002 | / | Pass |
| | 784.5 | 25 | 0 | -10 | 3.87 | -2.297 | -0.0029 | | Pass |
| | 701.0 | | | 0 | 3.87 | 0.540 | 0.0007 | | Pass |
| | | | | 10 | 3.87 | -1.158 | -0.0015 | / | Pass |
| | | | | 30 | 3.87 | 4.164 | 0.0053 | | Pass |
| | | | | 40 | 3.87 | -2.534 | -0.0032 | | Pass |
| | | | | 50 | 3.87 | -1.245 | -0.0032 | | Pass |
| | | | | 30 | 3.5 | -1.494 | -0.0010 | | Pass |
| | | | | 20 | 3.87 | 2.719 | 0.0035 | / | Pass |
| | | | | 20 | 4.45 | 0.836 | 0.0033 | / | Pass |
| | | | | -30 | 3.87 | -1.970 | -0.0025 | / | Pass |
| | | | | -20 | 3.87 | -0.269 | -0.0023 | / | |
| | 770 5 | 25 | _ | | | | | / | Pass |
| | 779.5 | 25 | 0 | -10 | 3.87 | 0.619 | 0.0008 | | Pass |
| | | | | 0 | 3.87 | -0.091 | -0.0001 | | Pass |
| | | | | 10 | 3.87 | 0.251 | 0.0003 | | Pass |
| | | | | 30 40 | 3.87 | -2.700 | -0.0035 | / | Pass |
| | | | | | 3.87 | 0.431 | 0.0006 | | Pass |
| 64QAM | | | | 50 | 3.87 | -1.454 | -0.0019 | / | Pass |
| | | | | 20 | 3.5 | 0.392 | 0.0005 | | Pass |
| | | | | 20 | 3.87 | 1.089 | 0.0014 | | Pass |
| | | | | | 4.45 | 0.497 | 0.0006 | / | Pass |
| | | | | -30 | 3.87 | -1.160 | -0.0015 | / | Pass |
| | 700 | 6- | | -20 | 3.87 | 2.260 | 0.0029 | / | Pass |
| | 782 | 25 | 0 | -10 | 3.87 | -2.237 | -0.0029 | / | Pass |
| | | | | 0 | 3.87 | 4.500 | 0.0058 | | Pass |
| | | | | 10 | 3.87 | -1.406 | -0.0018 | / | Pass |
| | | | | 30 | 3.87 | 0.298 | 0.0004 | / | Pass |
| | | | | 40 | 3.87 | 0.792 | 0.0010 | / | Pass |
| | | | | 50 | 3.87 | 0.895 | 0.0011 | / | Pass |



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| | | | | | i aye. | 1 01 03 | | |
|-------|----|---|-----|------|--------|---------|---|------|
| | | | | 3.5 | -0.429 | -0.0005 | / | Pass |
| | | | 20 | 3.87 | 1.533 | 0.0020 | / | Pass |
| | | | | 4.45 | 1.360 | 0.0017 | / | Pass |
| | | | -30 | 3.87 | -1.422 | -0.0018 | / | Pass |
| | | | -20 | 3.87 | 1.279 | 0.0016 | / | Pass |
| 784.5 | 25 | 0 | -10 | 3.87 | -4.073 | -0.0052 | / | Pass |
| | | | 0 | 3.87 | -2.865 | -0.0037 | / | Pass |
| | | | 10 | 3.87 | -5.455 | -0.0070 | / | Pass |
| | | | 30 | 3.87 | -0.581 | -0.0007 | / | Pass |
| | | | 40 | 3.87 | -1.684 | -0.0021 | / | Pass |
| | | | 50 | 3.87 | -1.627 | -0.0021 | / | Pass |



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2.2 B13_10MHz

2.2.1 Test Result

| | | | | Band: 13 | 3 / Bandwidt | h: 10MHz | | | |
|------------|-----------|--------|---------|----------|--------------|-------------|-------------|-------------|---------|
| Modulation | Frequency | RB All | ocation | Temp. | Voltage | Freq. Error | Freq. vs. R | Rated (ppm) | Verdict |
| Modulation | (MHz) | Size | Offset | (°C) | (VDC) | (Hz) | Result | Limit | verdict |
| | | | | | 3.5 | -2.402 | -0.0031 | / | Pass |
| | | | | 20 | 3.87 | -0.521 | -0.0007 | / | Pass |
| | | | | | 4.45 | -0.156 | -0.0002 | / | Pass |
| | | | | -30 | 3.87 | 1.151 | 0.0015 | / | Pass |
| | | | | -20 | 3.87 | -1.694 | -0.0022 | / | Pass |
| QPSK | 782 | 50 | 0 | -10 | 3.87 | -1.461 | -0.0019 | / | Pass |
| | | | | 0 | 3.87 | -2.086 | -0.0027 | / | Pass |
| | | | | 10 | 3.87 | 1.992 | 0.0025 | / | Pass |
| | | | | 30 | 3.87 | -2.551 | -0.0033 | / | Pass |
| | | | | 40 | 3.87 | -0.357 | -0.0005 | / | Pass |
| | | | | 50 | 3.87 | -4.395 | -0.0056 | / | Pass |
| | | | | | 3.5 | -1.290 | -0.0016 | / | Pass |
| | | | | 20 | 3.87 | -0.918 | -0.0012 | / | Pass |
| | | | | | 4.45 | -0.020 | 0.0000 | / | Pass |
| | | | | -30 | 3.87 | -2.249 | -0.0029 | / | Pass |
| | | | | -20 | 3.87 | -2.259 | -0.0029 | / | Pass |
| 16QAM | 782 | 50 | 0 | -10 | 3.87 | -1.271 | -0.0016 | / | Pass |
| | | | | 0 | 3.87 | 2.975 | 0.0038 | / | Pass |
| | | | | 10 | 3.87 | -1.796 | -0.0023 | / | Pass |
| | | | | 30 | 3.87 | -2.475 | -0.0032 | / | Pass |
| | | | | 40 | 3.87 | 0.875 | 0.0011 | / | Pass |
| | | | | 50 | 3.87 | 2.431 | 0.0031 | / | Pass |
| | | | | | 3.5 | -2.386 | -0.0031 | / | Pass |
| | | | | 20 | 3.87 | -2.519 | -0.0032 | / | Pass |
| | | | | | 4.45 | 0.645 | 0.0008 | / | Pass |
| | | | | -30 | 3.87 | 2.325 | 0.0030 | / | Pass |
| | | | | -20 | 3.87 | -1.604 | -0.0021 | / | Pass |
| 64QAM | 782 | 50 | 0 | -10 | 3.87 | 0.247 | 0.0003 | / | Pass |
| | | | | 0 | 3.87 | -0.649 | -0.0008 | / | Pass |
| | | | | 10 | 3.87 | -0.031 | 0.0000 | / | Pass |
| | | | | 30 | 3.87 | 0.672 | 0.0009 | / | Pass |
| | | | | 40 | 3.87 | 2.631 | 0.0034 | / | Pass |
| | | | | 50 | 3.87 | -0.161 | -0.0002 | / | Pass |



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3. 99% & 26dB Bandwidth

3.1 Band13_OBW

3.1.1 Test Result

| | | | Band: | 13 / NTNV | | | |
|-----------------|------------|-----------|--------|-----------|----------------|-----------------|---------|
| Bandwidth (MHz) | Modulation | Frequency | RB All | ocation | 99% Occupied E | Bandwidth (MHz) | Verdict |
| Danuwiuin (MHZ) | Modulation | (MHz) | Size | Offset | Result | Limit | verdict |
| | | 779.5 | 25 | 0 | 4.534 | / | Pass |
| | QPSK | 782 | 25 | 0 | 4.556 | / | Pass |
| | | 784.5 | 25 | 0 | 4.567 | / | Pass |
| | | 779.5 | 25 | 0 | 4.553 | / | Pass |
| 5 | 16QAM | 782 | 25 | 0 | 4.550 | / | Pass |
| | | 784.5 | 25 | 0 | 4.552 | / | Pass |
| | | 779.5 | 25 | 0 | 4.547 | / | Pass |
| | 64QAM | 782 | 25 | 0 | 4.549 | / | Pass |
| | | 784.5 | 25 | 0 | 4.551 | / | Pass |
| | QPSK | 782 | 50 | 0 | 9.082 | / | Pass |
| 10 | 16QAM | 782 | 50 | 0 | 9.084 | / | Pass |
| | 64QAM | 782 | 50 | 0 | 9.071 | / | Pass |

3.2 Band13_XDB

3.2.1 Test Result

| | Band: 13 / NTNV | | | | | | | | | | |
|-----------------|-----------------|-----------|--------|---------|-----------|-------------|---------|--|--|--|--|
| Pandwidth (MUz) | Modulation | Frequency | RB All | ocation | 26dB Band | width (MHz) | Verdict | | | | |
| Bandwidth (MHz) | Modulation | (MHz) | Size | Offset | Result | Limit | verdict | | | | |
| | | 779.5 | 25 | 0 | 5.029 | / | Pass | | | | |
| | QPSK | 782 | 25 | 0 | 5.076 | / | Pass | | | | |
| | | 784.5 | 25 | 0 | 5.028 | / | Pass | | | | |
| | | 779.5 | 25 | 0 | 5.030 | / | Pass | | | | |
| 5 | 16QAM | 782 | 25 | 0 | 5.058 | / | Pass | | | | |
| | | 784.5 | 25 | 0 | 5.045 | / | Pass | | | | |
| | | 779.5 | 25 | 0 | 5.049 | / | Pass | | | | |
| | 64QAM | 782 | 25 | 0 | 5.059 | / | Pass | | | | |
| | | 784.5 | 25 | 0 | 5.061 | / | Pass | | | | |
| | QPSK | 782 | 50 | 0 | 9.971 | / | Pass | | | | |
| 10 | 16QAM | 782 | 50 | 0 | 10.045 | / | Pass | | | | |
| | 64QAM | 782 | 50 | 0 | 9.996 | / | Pass | | | | |



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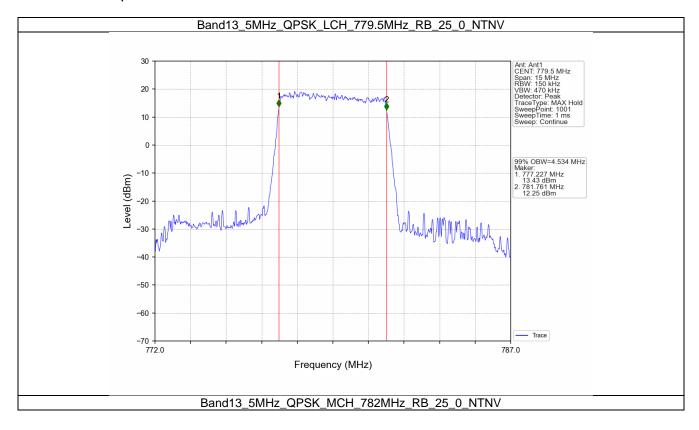


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3.1 Band13_OBW

3.1.2 Test Graph





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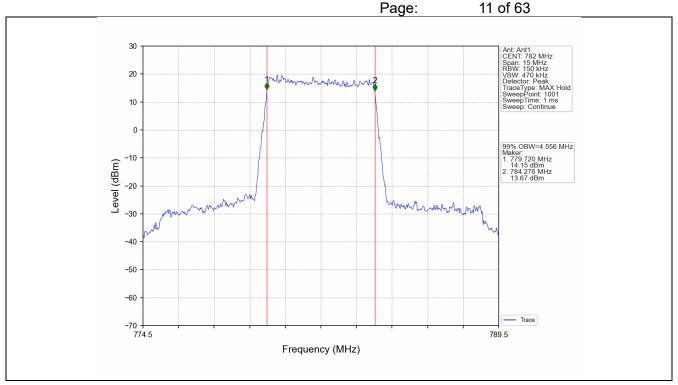
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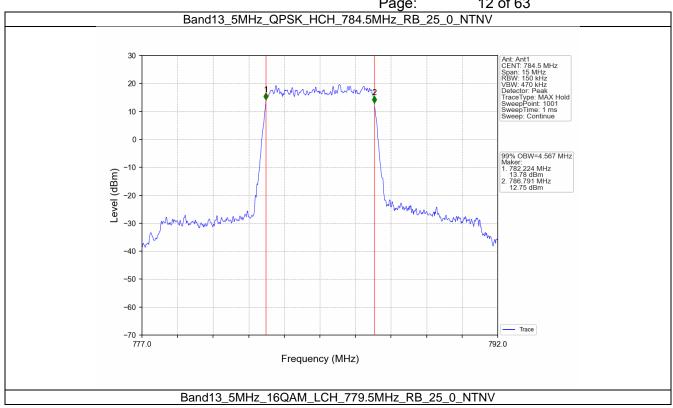
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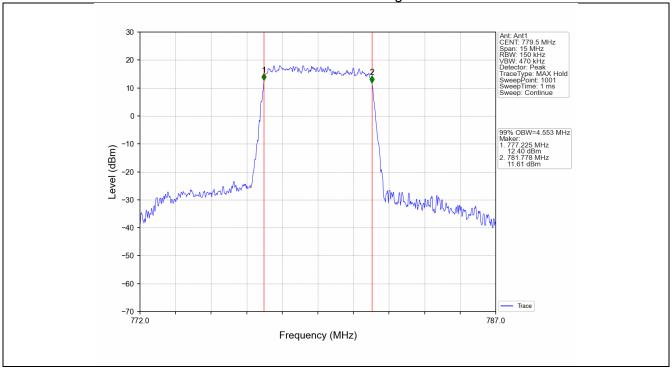
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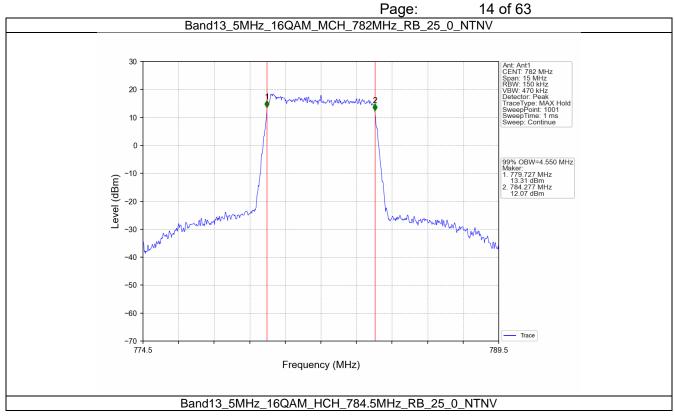
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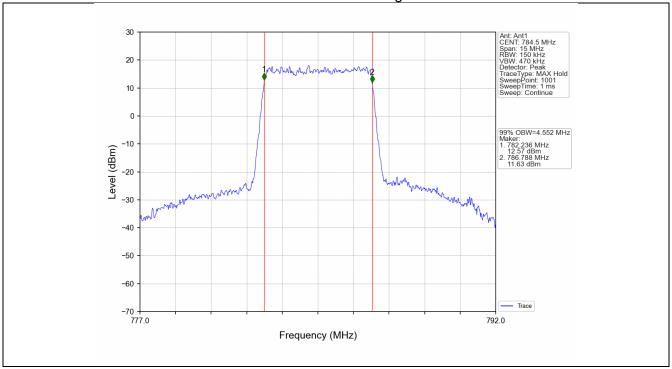
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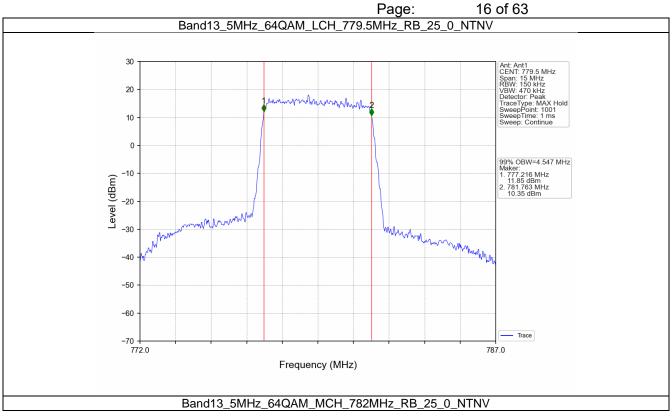
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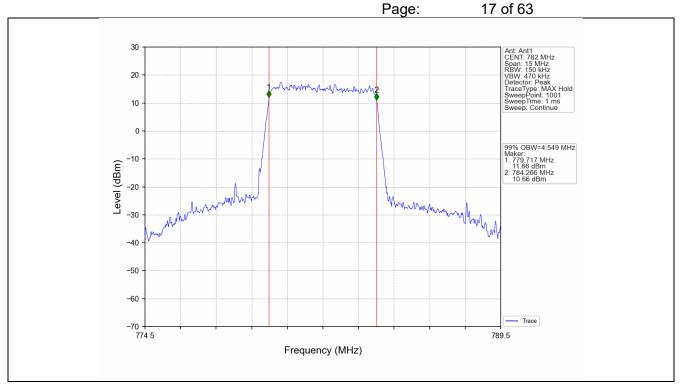
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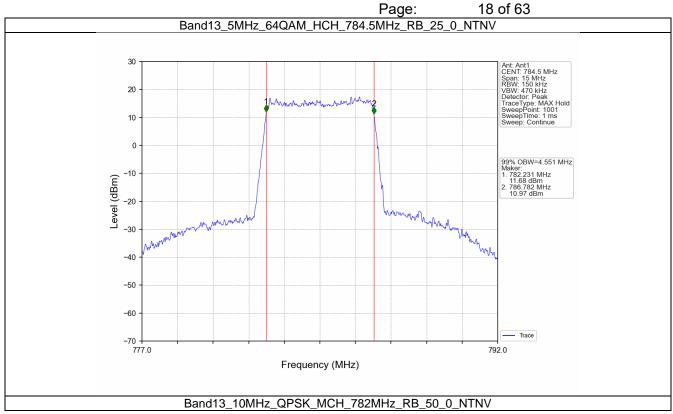
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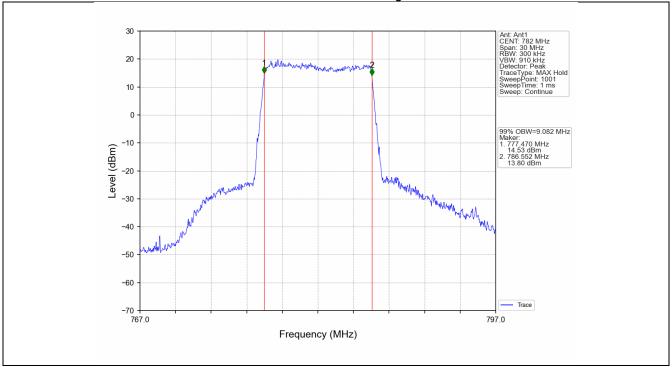
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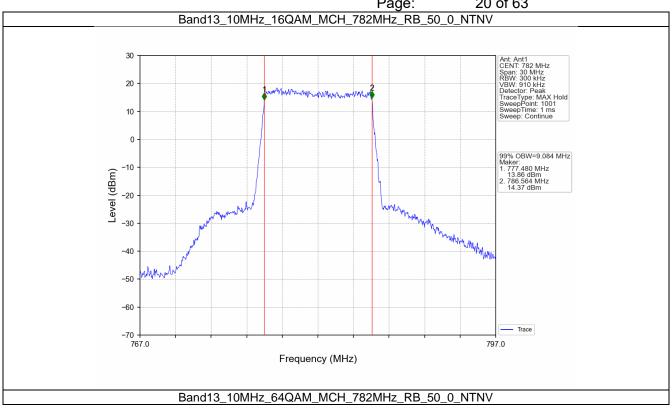
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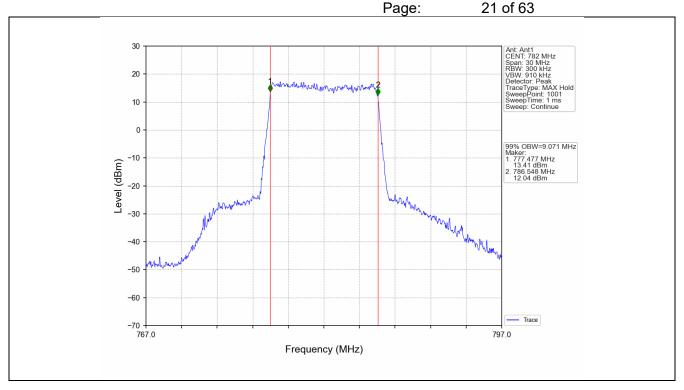
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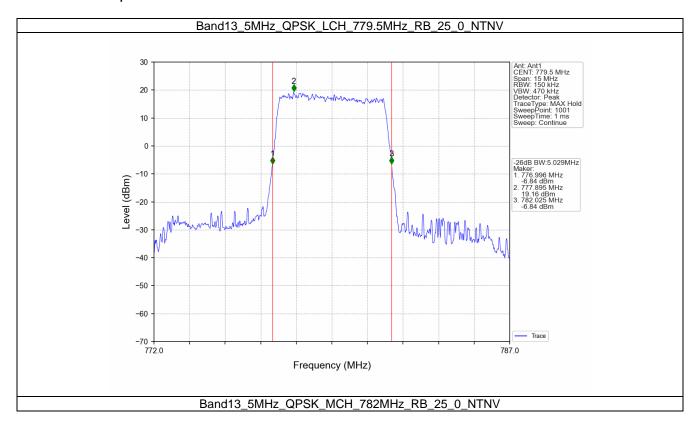


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3.2 Band13_XDB

3.2.2 Test Graph





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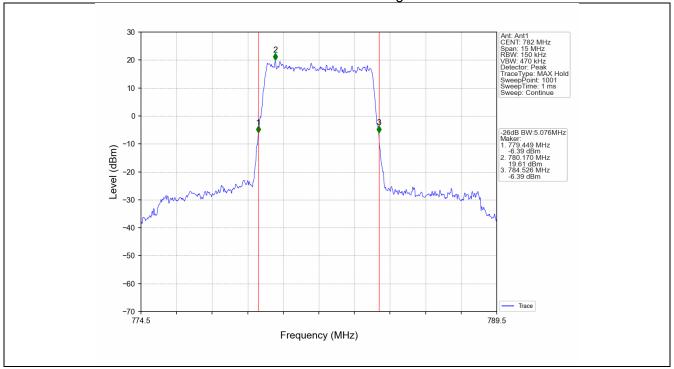
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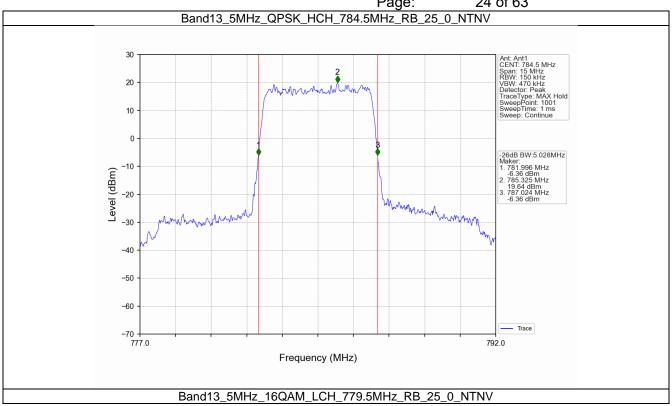
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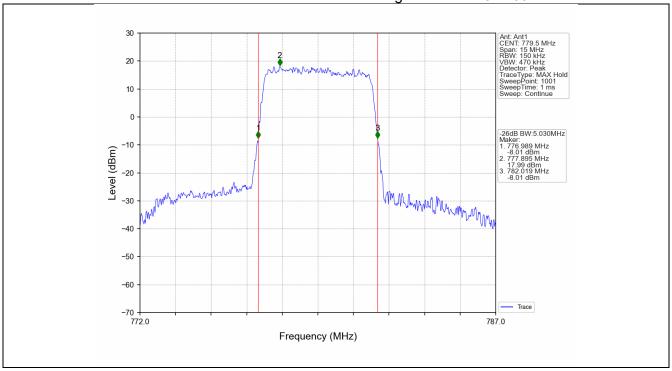
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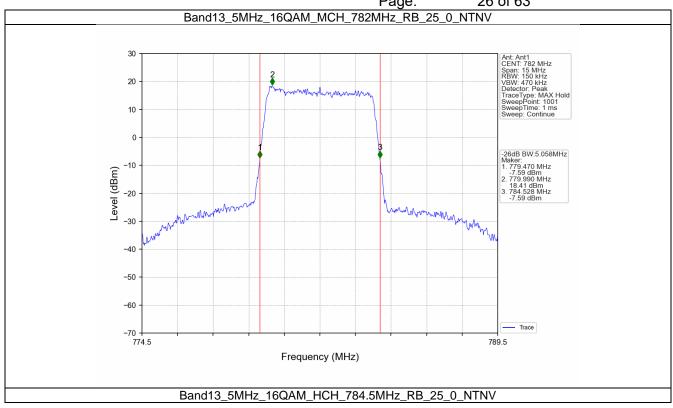
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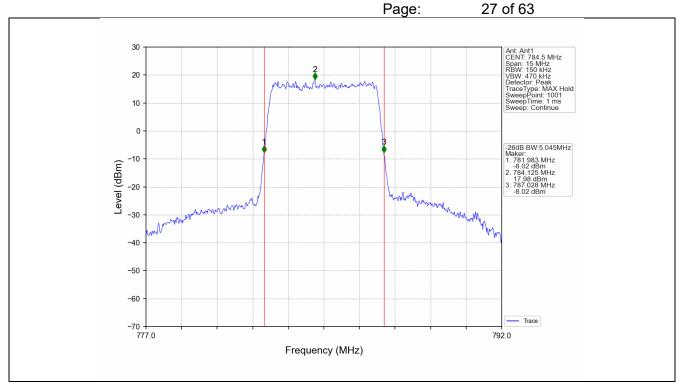
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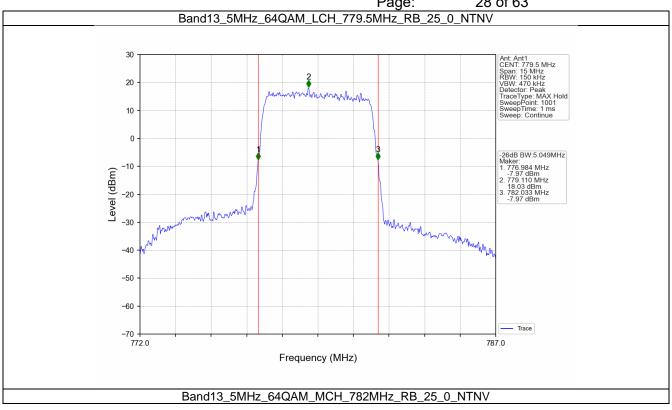
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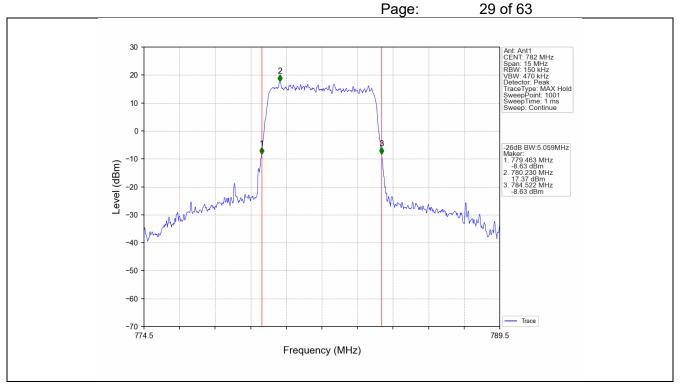
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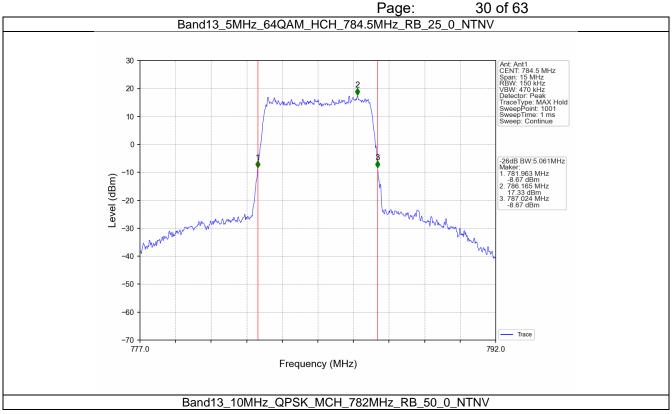
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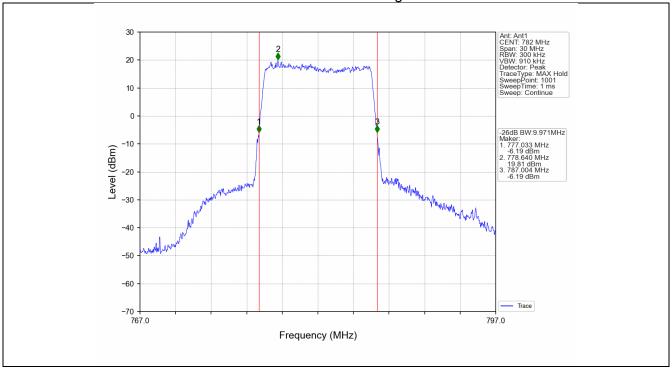
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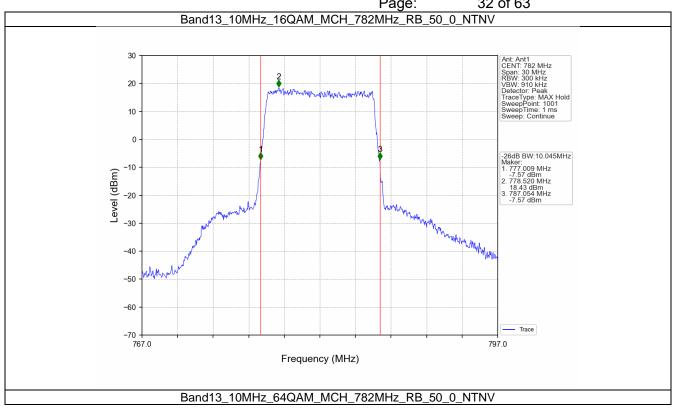
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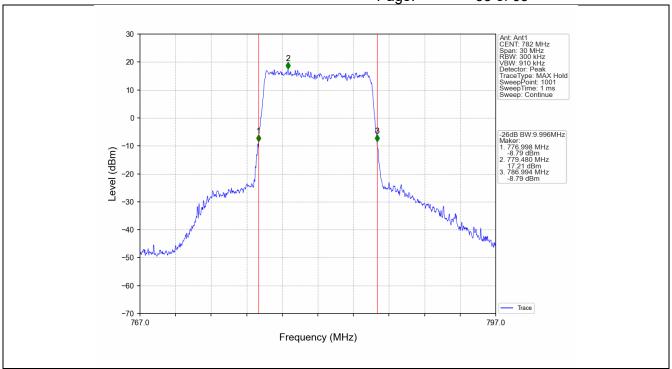
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4. Peak-Average Ratio

4.1 B13_5MHz

4.1.1 Test Result

| | | Ban | d: 13 / Bandwidt | h: 5MHz / NTNV | | |
|------------|-----------|---------|------------------|----------------|---------------|----------|
| Madulation | Frequency | RB Allo | ocation | Peak-Averag | je Ratio (dB) | \/ordiot |
| Modulation | (MHz) | Size | Offset | Result | Limit | Verdict |
| | 779.5 | 25 | 0 | 5.71 | <=13 | Pass |
| QPSK | 782 | 25 | 0 | 5.90 | <=13 | Pass |
| | 784.5 | 25 | 0 | 6.02 | <=13 | Pass |
| | 779.5 | 25 | 0 | 6.40 | <=13 | Pass |
| 16QAM | 782 | 25 | 0 | 6.59 | <=13 | Pass |
| | 784.5 | 25 | 0 | 6.60 | <=13 | Pass |
| | 779.5 | 25 | 0 | 6.62 | <=13 | Pass |
| 64QAM | 782 | 25 | 0 | 6.73 | <=13 | Pass |
| | 784.5 | 25 | 0 | 6.71 | <=13 | Pass |

4.2 B13_10MHz

4.2.1 Test Result

| | Band: 13 / Bandwidth: 10MHz / NTNV | | | | | | | | | | |
|--------------|------------------------------------|---------|---------|-------------|---------------|---------|--|--|--|--|--|
| Modulation | Frequency | RB Alle | ocation | Peak-Averaç | ge Ratio (dB) | Verdict | | | | | |
| iviodulation | (MHz) | Size | Offset | Result | Limit | verdict | | | | | |
| QPSK | 782 | 50 | 0 | 5.90 | <=13 | Pass | | | | | |
| 16QAM | 782 | 50 | 0 | 6.55 | <=13 | Pass | | | | | |
| 64QAM | 782 | 50 | 0 | 6.72 | <=13 | Pass | | | | | |



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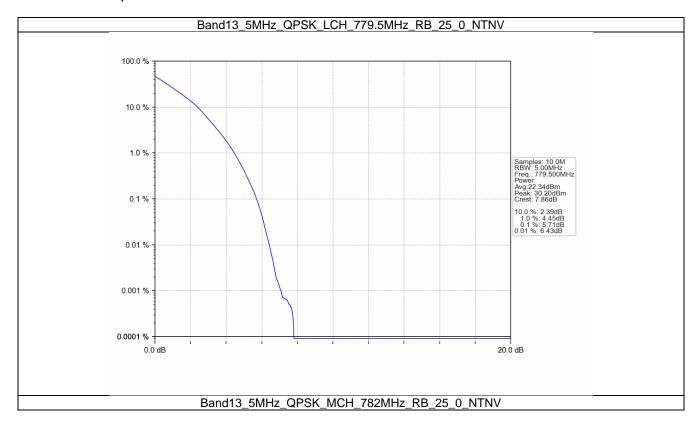


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4.1 B13_5MHz

4.1.2 Test Graph





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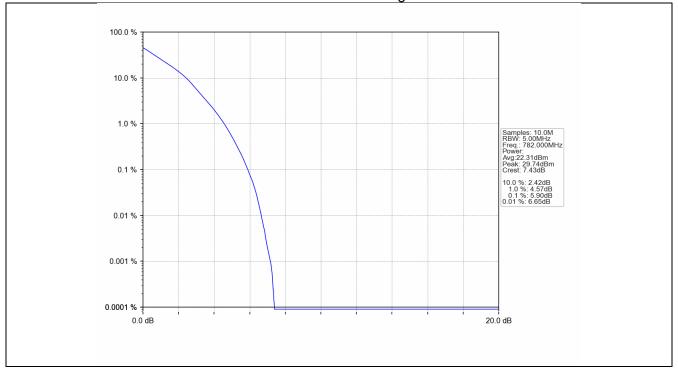
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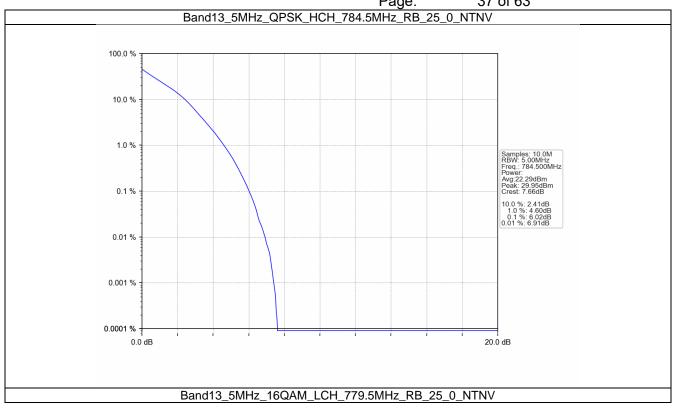
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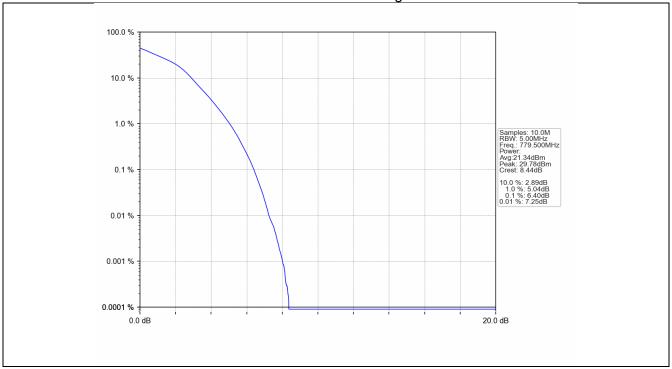
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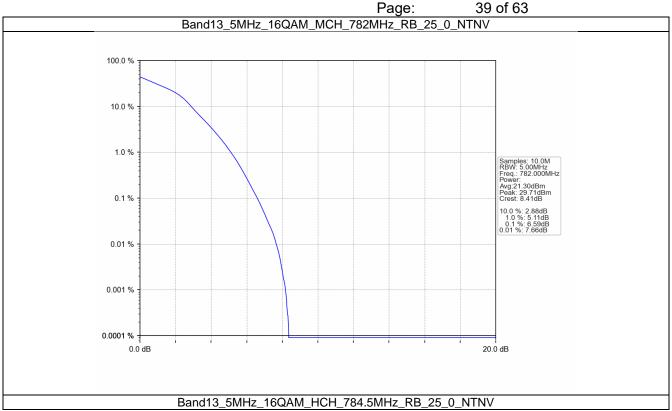
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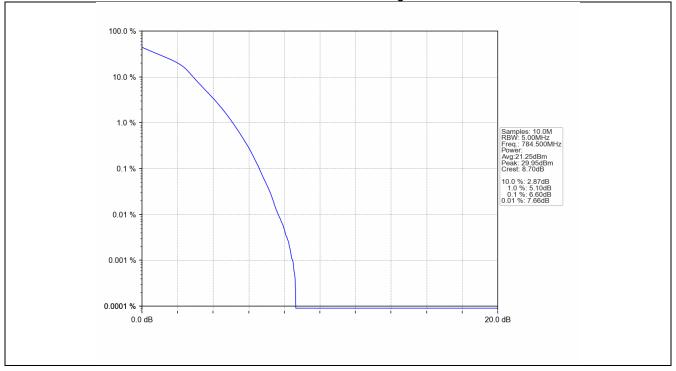
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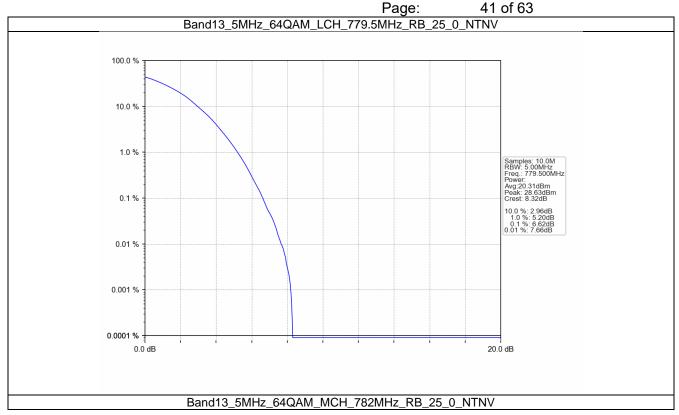
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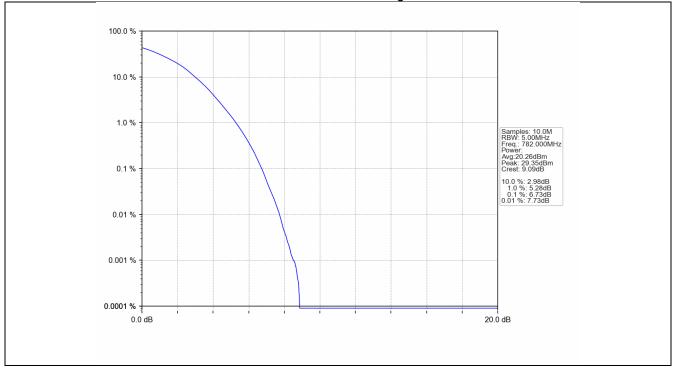
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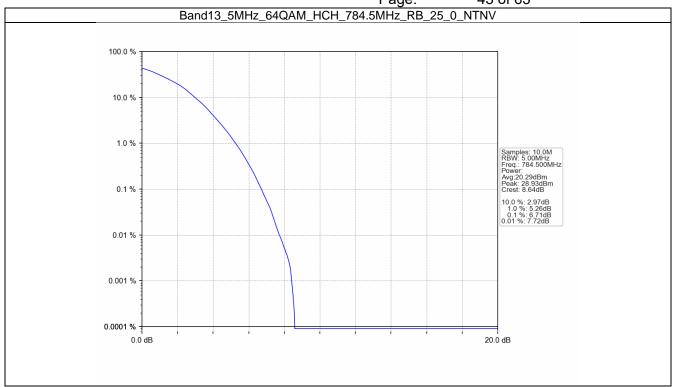
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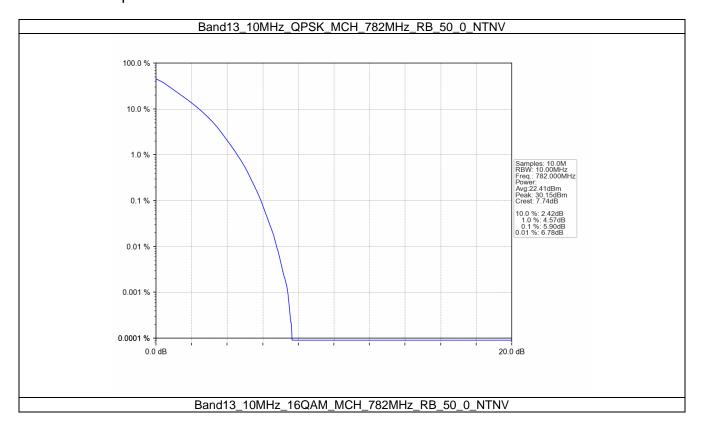
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4.2 B13_10MHz

4.2.2 Test Graph





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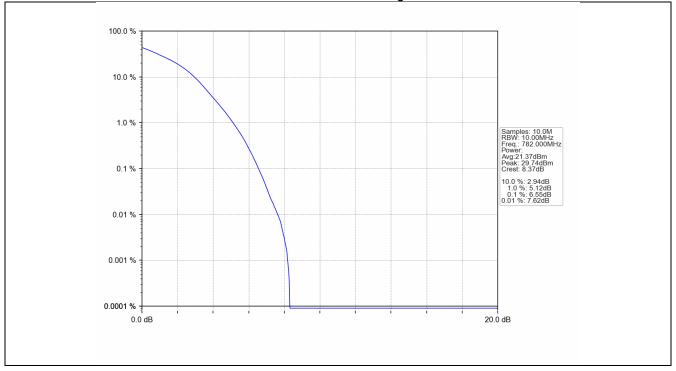
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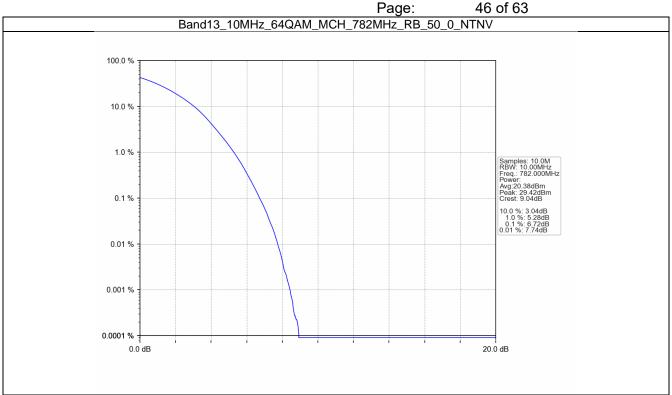
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5. Spurious Emission & Band Edges

5.1 B13_5MHz

5.1.1 Test Result

| | Band: 13 / Bandwidth: 5MHz / NTNV | | | | | | | | | | |
|------------|-----------------------------------|---------|---------|---------------------|-------------|---------|--|--|--|--|--|
| Modulation | Frequency | RB Alle | ocation | Spurious Em | \/a ==1: =4 | | | | | | |
| | (MHz) | Size | Offset | Result | Limit | Verdict | | | | | |
| | 779.5 | 1 | 0 | Refer To Test Graph | | Pass | | | | | |
| | | 25 | 0 | Refer To Test | Pass | | | | | | |
| QPSK | 782 | 1 | 0 | Refer To Test | Graph | Pass | | | | | |
| QF3N - | | 1 | 0 | Refer To Test | Graph | Pass | | | | | |
| | 784.5 | I | 24 | Refer To Test | Pass | | | | | | |
| | | 25 | 0 | Refer To Test | Graph | Pass | | | | | |

5.2 B13_10MHz

5.2.1 Test Result

| | Band: 13 / Bandwidth: 10MHz / NTNV | | | | | | | | | | |
|------------|------------------------------------|---------------|--------|---------------|---------|---------|--|--|--|--|--|
| Modulation | Frequency | RB Allocation | | Spurious Emi | Verdict | | | | | | |
| | (MHz) | Size | Offset | Result | Limit | verdict | | | | | |
| | 782 | 1 | 0 | Refer To Test | Pass | | | | | | |
| QPSK | | 50 | 0 | Refer To Test | Pass | | | | | | |
| QFSK | 782 | 1 | 49 | Refer To Test | Pass | | | | | | |
| | | 50 | 0 | Refer To Test | Graph | Pass | | | | | |



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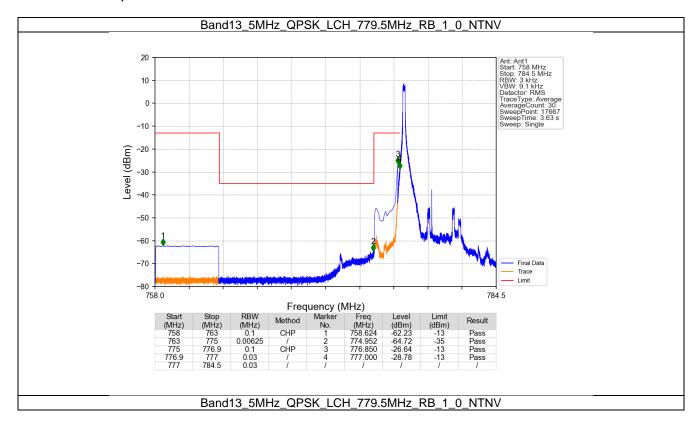
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5.1 B13_5MHz

5.1.2 Test Graph





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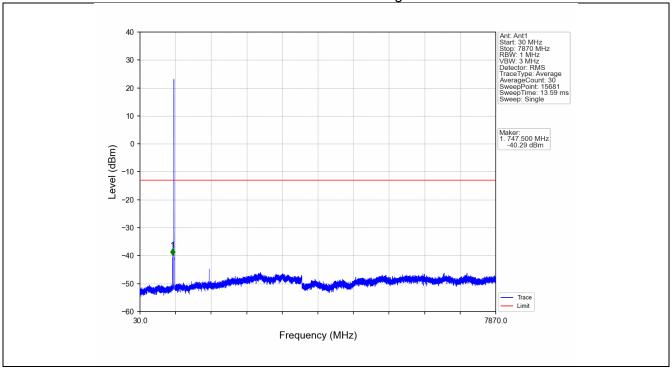
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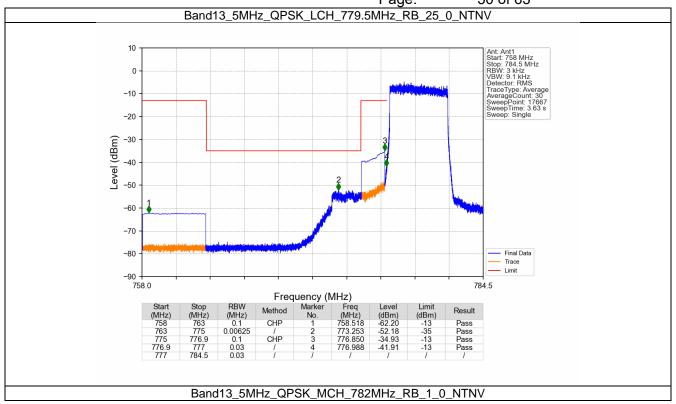
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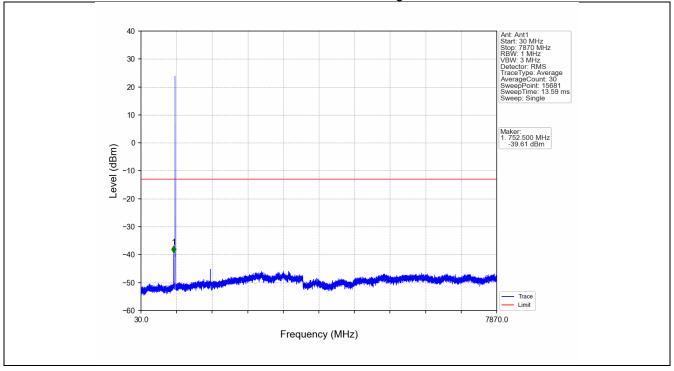
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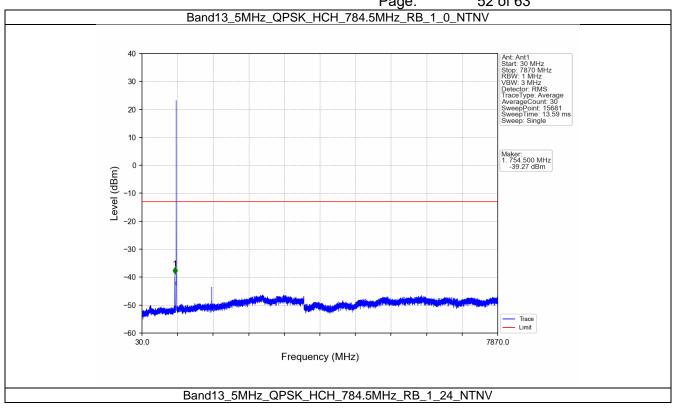
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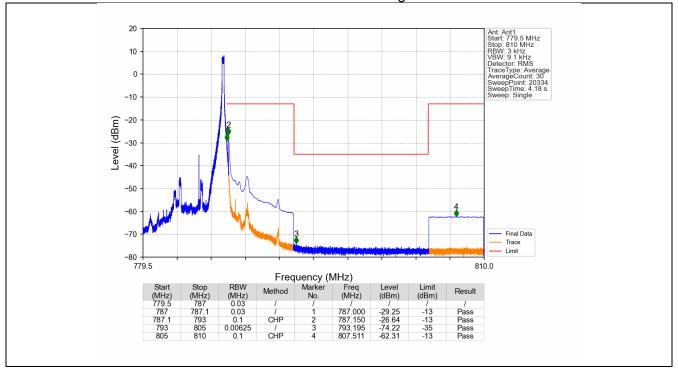
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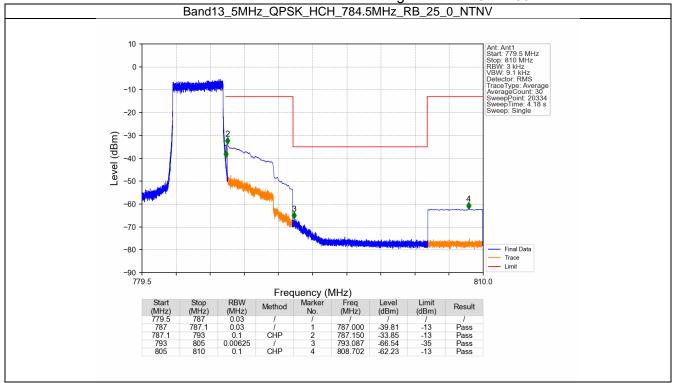
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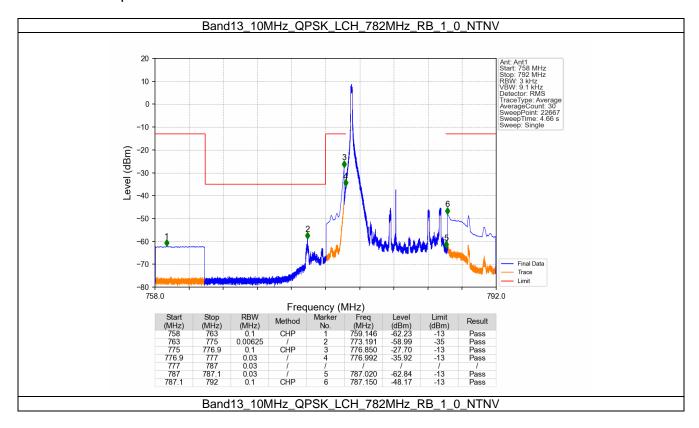
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5.2 B13_10MHz

5.2.2 Test Graph





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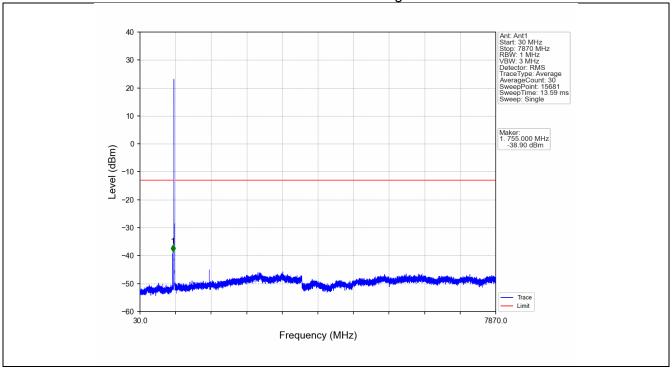
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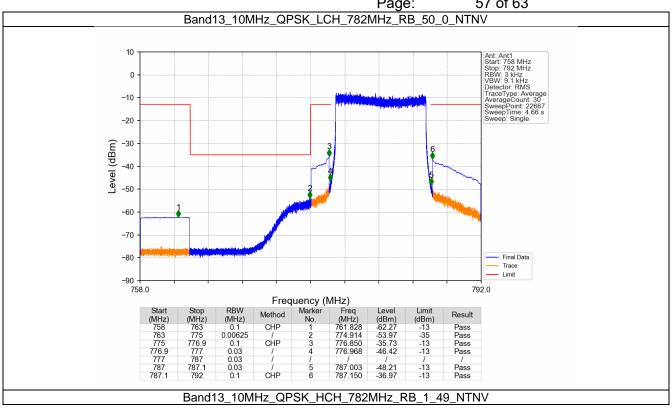
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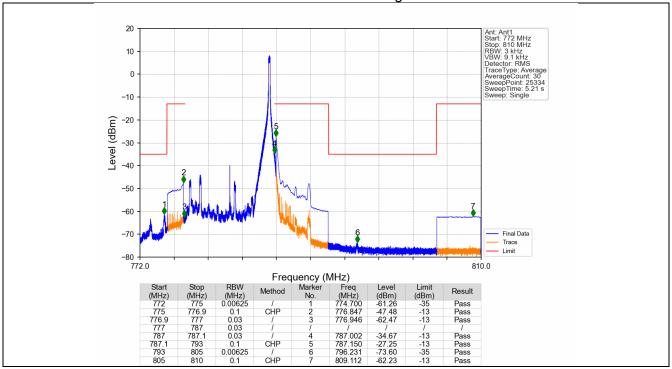
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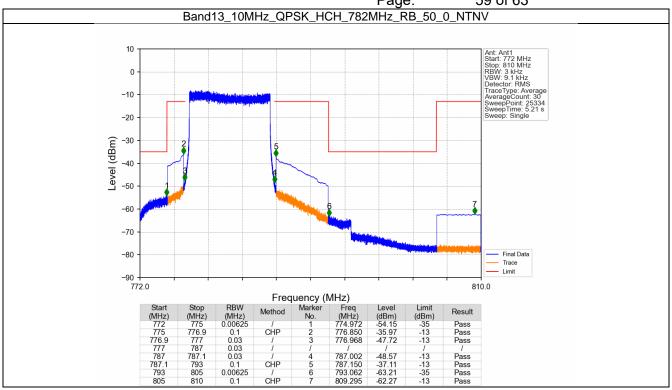
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6. Field Strength of Spurious Radiation

Test Band = LTE_13-5MHz
Test Channel = LCH

| Final Da | Final Data List | | | | | | | | | | |
|----------|-----------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|--|--|--|
| NO. | Freq. [MHz] | Reading [dBµV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity | | | |
| 1 | 1554.5 | 63.03 | -53.46 | 25.89 | -59.80 | -13.00 | 46.80 | Horizontal | | | |
| 2 | 1571 | 55.28 | -53.42 | 25.86 | -67.54 | -40.00 | 27.54 | Horizontal | | | |
| 3 | 2332 | 101.43 | -51.91 | 27.79 | -17.95 | -13.00 | 4.95 | Horizontal | | | |
| 4 | 4664 | 80.93 | -45.91 | 31.94 | -28.30 | -13.00 | 15.30 | Horizontal | | | |
| 5 | 5441.5 | 78.36 | -44.33 | 33.35 | -27.88 | -13.00 | 14.88 | Horizontal | | | |
| 6 | 6996 | 75.11 | -43.88 | 36.49 | -27.54 | -13.00 | 14.54 | Horizontal | | | |

| Final Da | Final Data List | | | | | | | | | | |
|----------|-----------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|--|--|--|
| NO. | Freq. [MHz] | Reading [dBµV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity | | | |
| 1 | 1594 | 55.59 | -53.37 | 25.81 | -67.23 | -40.00 | 27.23 | Vertical | | | |
| 2 | 2332 | 99.66 | -51.91 | 27.79 | -19.72 | -13.00 | 6.72 | Vertical | | | |
| 3 | 3886.5 | 74.59 | -48.48 | 30.55 | -38.60 | -13.00 | 25.60 | Vertical | | | |
| 4 | 4664 | 67.39 | -45.91 | 31.94 | -41.84 | -13.00 | 28.84 | Vertical | | | |
| 5 | 5441.5 | 69.92 | -44.33 | 33.35 | -36.32 | -13.00 | 23.32 | Vertical | | | |
| 6 | 6995.5 | 70.00 | -43.88 | 36.49 | -32.65 | -13.00 | 19.65 | Vertical | | | |



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Test Band = LTE_13-5MHz Test Channel = MCH

| Final Da | Final Data List | | | | | | | | | | |
|----------|-----------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|--|--|--|
| NO. | Freq. [MHz] | Reading [dBµV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity | | | |
| 1 | 1559.5 | 60.38 | -53.45 | 25.88 | -62.45 | -40.00 | 22.45 | Horizontal | | | |
| 2 | 2339.5 | 102.97 | -51.94 | 27.84 | -16.39 | -13.00 | 3.39 | Horizontal | | | |
| 3 | 4679.5 | 78.95 | -45.71 | 31.88 | -30.14 | -13.00 | 17.14 | Horizontal | | | |
| 4 | 5458.5 | 77.43 | -44.12 | 33.35 | -28.60 | -13.00 | 15.60 | Horizontal | | | |
| 5 | 7018.5 | 77.30 | -43.74 | 36.43 | -25.27 | -13.00 | 12.27 | Horizontal | | | |
| 6 | 9358 | 66.35 | -40.11 | 38.53 | -30.49 | -13.00 | 17.49 | Horizontal | | | |

| Final Da | Final Data List | | | | | | | | | | |
|----------|-----------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|--|--|--|
| NO. | Freq. [MHz] | Reading [dBµV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity | | | |
| 1 | 1560 | 57.30 | -53.45 | 25.88 | -65.53 | -40.00 | 25.53 | Vertical | | | |
| 2 | 2340 | 98.79 | -51.94 | 27.84 | -20.57 | -13.00 | 7.57 | Vertical | | | |
| 3 | 3899 | 76.08 | -48.58 | 30.60 | -37.16 | -13.00 | 24.16 | Vertical | | | |
| 4 | 4679 | 71.45 | -45.71 | 31.88 | -37.64 | -13.00 | 24.64 | Vertical | | | |
| 5 | 5458.5 | 69.71 | -44.12 | 33.35 | -36.32 | -13.00 | 23.32 | Vertical | | | |
| 6 | 7018.5 | 63.58 | -43.74 | 36.43 | -38.99 | -13.00 | 25.99 | Vertical | | | |



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Test Band = LTE_13-5MHz Test Channel = HCH

| Final Da | ta List | | | | | | | |
|----------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO. | Freq. [MHz] | Reading [dBµV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1564.5 | 62.38 | -53.44 | 25.87 | -60.45 | -40.00 | 20.45 | Horizontal |
| 2 | 2347 | 103.03 | -51.98 | 27.88 | -16.33 | -13.00 | 3.33 | Horizontal |
| 3 | 3912 | 78.47 | -48.41 | 30.67 | -34.53 | -13.00 | 21.53 | Horizontal |
| 4 | 4693.5 | 83.85 | -45.52 | 31.83 | -25.10 | -13.00 | 12.10 | Horizontal |
| 5 | 5477 | 81.55 | -43.69 | 33.24 | -24.16 | -13.00 | 11.16 | Horizontal |
| 6 | 7040.5 | 77.90 | -43.58 | 36.34 | -24.60 | -13.00 | 11.60 | Horizontal |

| Final Da | Final Data List | | | | | | | | | | |
|----------|-----------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|--|--|--|
| NO. | Freq. [MHz] | Reading [dBµV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity | | | |
| 1 | 1564.5 | 57.76 | -53.44 | 25.87 | -65.07 | -40.00 | 25.07 | Vertical | | | |
| 2 | 2347 | 102.27 | -51.98 | 27.88 | -17.09 | -13.00 | 4.09 | Vertical | | | |
| 3 | 3912 | 78.47 | -48.41 | 30.67 | -34.53 | -13.00 | 21.53 | Vertical | | | |
| 4 | 4693.5 | 67.26 | -45.52 | 31.83 | -41.69 | -13.00 | 28.69 | Vertical | | | |
| 5 | 5476.5 | 74.90 | -43.70 | 33.24 | -30.82 | -13.00 | 17.82 | Vertical | | | |
| 6 | 7040.5 | 67.78 | -43.58 | 36.34 | -34.72 | -13.00 | 21.72 | Vertical | | | |



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Test Band = LTE_13-10MHz Test Channel = MCH

| Final Da | Final Data List | | | | | | | | | | |
|----------|-----------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|--|--|--|
| NO. | Freq. [MHz] | Reading [dBµV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity | | | |
| 1 | 1600 | 55.72 | -53.36 | 25.80 | -67.10 | -40.00 | 27.10 | Horizontal | | | |
| 2 | 2332.5 | 102.47 | -51.91 | 27.80 | -16.90 | -13.00 | 3.90 | Horizontal | | | |
| 3 | 3888 | 79.55 | -48.49 | 30.55 | -33.65 | -13.00 | 20.65 | Horizontal | | | |
| 4 | 4666 | 81.40 | -45.88 | 31.94 | -27.80 | -13.00 | 14.80 | Horizontal | | | |
| 5 | 5443 | 76.82 | -44.33 | 33.36 | -29.41 | -13.00 | 16.41 | Horizontal | | | |
| 6 | 6997.5 | 78.24 | -43.87 | 36.50 | -24.39 | -13.00 | 11.39 | Horizontal | | | |

| Final Da | Final Data List | | | | | | | | | | |
|----------|-----------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|--|--|--|
| NO. | Freq. [MHz] | Reading [dBµV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity | | | |
| 1 | 1593.5 | 55.26 | -53.37 | 25.81 | -67.56 | -40.00 | 27.56 | Vertical | | | |
| 2 | 2333 | 99.40 | -51.91 | 27.80 | -19.97 | -13.00 | 6.97 | Vertical | | | |
| 3 | 3888 | 76.20 | -48.49 | 30.55 | -37.00 | -13.00 | 24.00 | Vertical | | | |
| 4 | 4665.5 | 68.43 | -45.89 | 31.94 | -40.78 | -13.00 | 27.78 | Vertical | | | |
| 5 | 5443 | 71.93 | -44.33 | 33.36 | -34.30 | -13.00 | 21.30 | Vertical | | | |
| 6 | 6998 | 63.93 | -43.87 | 36.50 | -38.70 | -13.00 | 25.70 | 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

---End of Attachment---



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