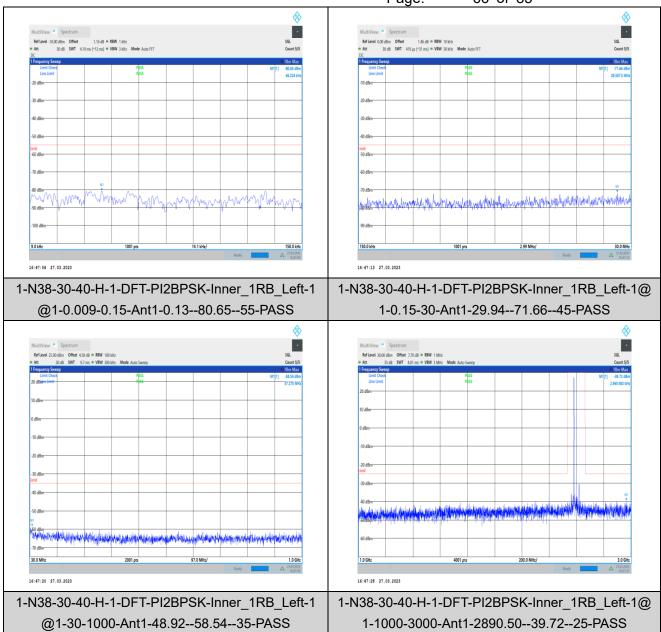


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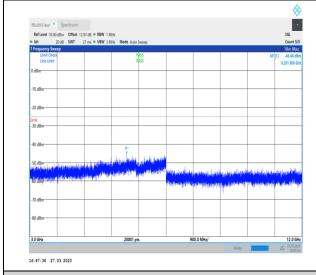
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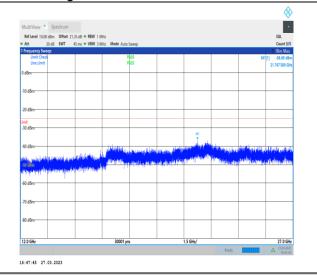


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1-N38-30-40-H-1-DFT-PI2BPSK-Inner 1RB Left-1 @1-3000-12000-Ant1-7414.05--45.46--25-PASS

1-N38-30-40-H-1-DFT-PI2BPSK-Inner 1RB Left-1@ 1-12000-27000-Ant1-21767.50--36.69--25-PASS



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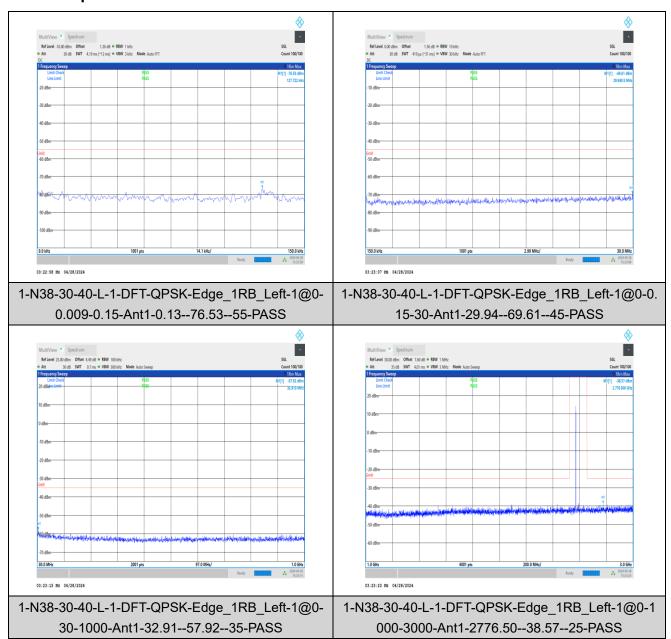
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Conducted Spurious Emission for MIMO

Test Graphs





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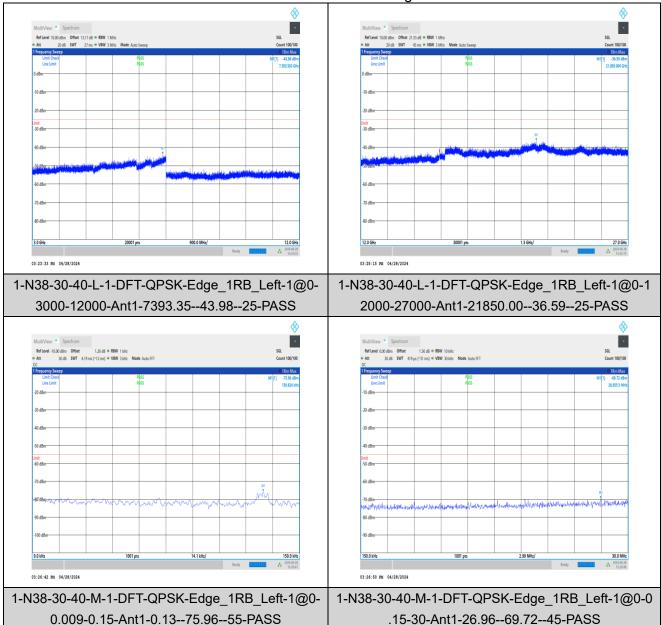
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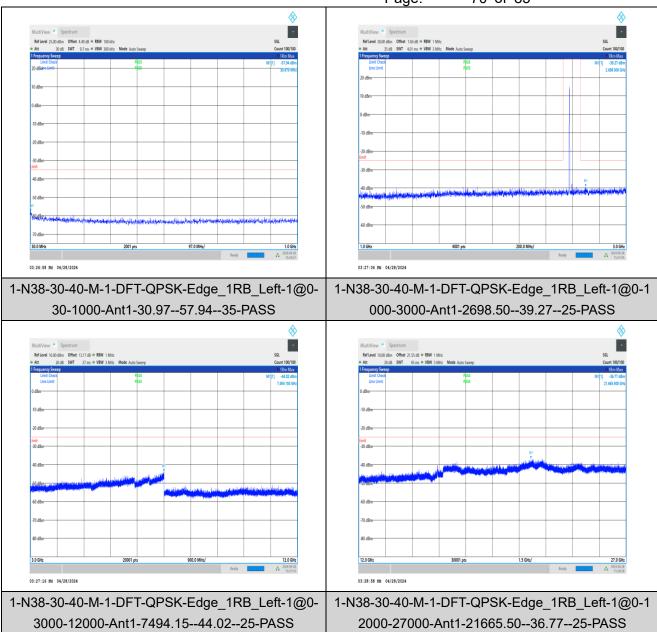
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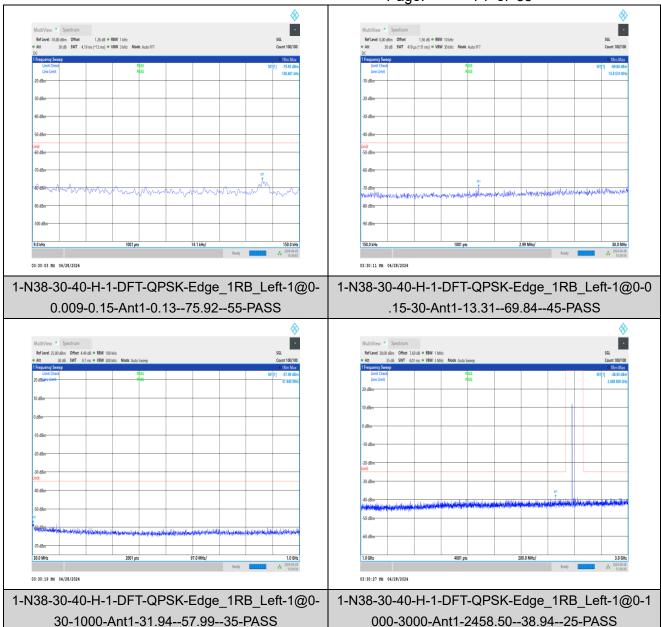
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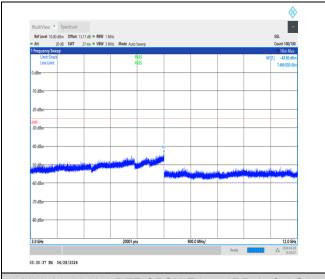
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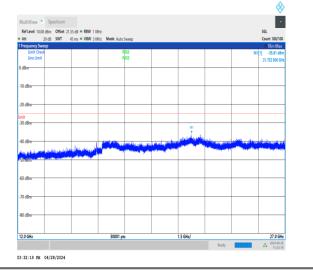


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1-N38-30-40-H-1-DFT-QPSK-Edge 1RB Left-1@0-3000-12000-Ant1-7499.55--43.90--25-PASS

1-N38-30-40-H-1-DFT-QPSK-Edge 1RB Left-1@0-1 2000-27000-Ant1-21752.50--35.81--25-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band38_40MHz _ TM1
Test Channel = Low

| Final | Data List | | | | | | | | | |
|-------|------------|---------|--------|-----------|--------|--------|--------|--------|-------|------------|
| NO | Frequency | Reading | Factor | Λ Γ[dD/m] | Level | Limit | Margin | Height | Angle | Dolority |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity |
| 1 | 3922.5 | 43.50 | -46.23 | 30.62 | -67.37 | -25.00 | 42.37 | 245 | 122 | Horizontal |
| 2 | 5144.1800 | 43.59 | -45.33 | 32.96 | -64.04 | -25.00 | 39.04 | 136 | 77 | Horizontal |
| 3 | 7716.2700 | 39.50 | -42.98 | 36.62 | -62.13 | -25.00 | 37.13 | 256 | 18 | Horizontal |
| 4 | 10288.3600 | 35.29 | -39.14 | 38.83 | -60.28 | -25.00 | 35.28 | 192 | 270 | Horizontal |
| 5 | 12860.4500 | 31.89 | -37.00 | 39.69 | -60.68 | -25.00 | 35.68 | 174 | 272 | Horizontal |
| 6 | 15432.5400 | 30.78 | -34.11 | 38.67 | -59.92 | -25.00 | 34.92 | 154 | 8 | Horizontal |

| Final Data List | | | | | | | | | | | | |
|-----------------|------------|---------|--------|-----------|--------|--------|--------|--------|-------|----------|--|--|
| NO | Frequency | Reading | Factor | Λ Γ[dD/m] | Level | Limit | Margin | Height | Angle | Delerity | | |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity | | |
| 1 | 3923.25 | 43.92 | -46.22 | 30.62 | -66.94 | -25.00 | 41.94 | 154 | 210 | Vertical | | |
| 2 | 5144.1800 | 45.47 | -45.33 | 32.96 | -62.16 | -25.00 | 37.16 | 126 | 1 | Vertical | | |
| 3 | 7716.2700 | 39.56 | -42.98 | 36.62 | -62.07 | -25.00 | 37.07 | 135 | 0 | Vertical | | |
| 4 | 10288.3600 | 34.66 | -39.14 | 38.83 | -60.91 | -25.00 | 35.91 | 174 | 16 | Vertical | | |
| 5 | 12860.4500 | 31.86 | -37.00 | 39.69 | -60.71 | -25.00 | 35.71 | 156 | 256 | Vertical | | |
| 6 | 15432.5400 | 29.79 | -34.11 | 38.67 | -60.91 | -25.00 | 35.91 | 291 | 91 | Vertical | | |



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Test Band = SA Band38_40MHz _ TM1 Test Channel = Mid

| Final | Data List | | | | | | | | | |
|-------|------------|---------|--------|-----------|--------|--------|--------|--------|-------|------------|
| NO | Frequency | Reading | Factor | Λ Γ[dD/m] | Level | Limit | Margin | Height | Angle | Dolority |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity |
| 1 | 3343.5 | 44.30 | -46.38 | 29.50 | -67.84 | -25.00 | 42.84 | 255 | 91 | Horizontal |
| 2 | 5154.1800 | 44.15 | -45.32 | 32.97 | -63.47 | -25.00 | 38.47 | 148 | 77 | Horizontal |
| 3 | 7731.2700 | 39.77 | -42.86 | 36.65 | -61.71 | -25.00 | 36.71 | 163 | 300 | Horizontal |
| 4 | 10308.3600 | 33.85 | -39.08 | 38.84 | -61.66 | -25.00 | 36.66 | 265 | 152 | Horizontal |
| 5 | 12885.4500 | 31.57 | -37.07 | 39.72 | -61.04 | -25.00 | 36.04 | 199 | 3 | Horizontal |
| 6 | 15462.5400 | 30.44 | -34.67 | 38.63 | -60.86 | -25.00 | 35.86 | 172 | 0 | Horizontal |

| Final | Data List | | | | | | | | | |
|-------|------------|---------|--------|-----------|--------|--------|--------|--------|-------|----------|
| NO | Frequency | Reading | Factor | Λ Γ[-ID/] | Level | Limit | Margin | Height | Angle | Dolovitu |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity |
| 1 | 4062 | 43.39 | -45.87 | 30.89 | -66.84 | -25.00 | 41.84 | 255 | 3 | Vertical |
| 2 | 5154.1800 | 47.67 | -45.32 | 32.97 | -59.95 | -25.00 | 34.95 | 136 | 47 | Vertical |
| 3 | 7731.2700 | 39.15 | -42.86 | 36.65 | -62.33 | -25.00 | 37.33 | 256 | 331 | Vertical |
| 4 | 10308.3600 | 34.36 | -39.08 | 38.84 | -61.15 | -25.00 | 36.15 | 142 | 122 | Vertical |
| 5 | 12885.4500 | 31.71 | -37.07 | 39.72 | -60.90 | -25.00 | 35.90 | 188 | 357 | Vertical |
| 6 | 15462.5400 | 29.66 | -34.67 | 38.63 | -61.64 | -25.00 | 36.64 | 192 | 227 | Vertical |



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Test Band = SA Band38_40MHz _ TM1 Test Channel = High

| Final | Data List | | | | | | | | | |
|-------|------------|---------|--------|-----------|--------|--------|--------|--------|-------|------------|
| NO | Frequency | Reading | Factor | Λ Γ[dD/m] | Level | Limit | Margin | Height | Angle | Dolority |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity |
| 1 | 4075.5 | 42.99 | -45.83 | 30.91 | -67.19 | -25.00 | 42.19 | 241 | 78 | Horizontal |
| 2 | 5164.1800 | 45.20 | -45.31 | 32.97 | -62.40 | -25.00 | 37.40 | 136 | 108 | Horizontal |
| 3 | 7746.2700 | 39.75 | -42.74 | 36.68 | -61.58 | -25.00 | 36.58 | 233 | 242 | Horizontal |
| 4 | 10328.3600 | 34.38 | -39.07 | 38.84 | -61.10 | -25.00 | 36.10 | 216 | 108 | Horizontal |
| 5 | 12910.4500 | 31.89 | -37.13 | 39.74 | -60.76 | -25.00 | 35.76 | 198 | 168 | Horizontal |
| 6 | 15492.5400 | 28.50 | -35.23 | 38.58 | -63.41 | -25.00 | 38.41 | 175 | 0 | Horizontal |

| Final | Data List | | | | | | | | | |
|-------|------------|---------|--------|-----------|--------|--------|--------|--------|-------|----------|
| NO. | Frequency | Reading | Factor | Λ Γ[-ID/] | Level | Limit | Margin | Height | Angle | Dolovitu |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity |
| 1 | 3686.25 | 43.24 | -45.59 | 29.92 | -67.69 | -25.00 | 42.69 | 287 | 347 | Vertical |
| 2 | 5164.1800 | 46.26 | -45.31 | 32.97 | -61.34 | -25.00 | 36.34 | 149 | 31 | Vertical |
| 3 | 7746.2700 | 39.83 | -42.74 | 36.68 | -61.50 | -25.00 | 36.50 | 185 | 8 | Vertical |
| 4 | 10328.3600 | 34.09 | -39.07 | 38.84 | -61.39 | -25.00 | 36.39 | 169 | 357 | Vertical |
| 5 | 12910.4500 | 31.50 | -37.13 | 39.74 | -61.15 | -25.00 | 36.15 | 174 | 62 | Vertical |
| 6 | 15492.5400 | 28.67 | -35.23 | 38.58 | -63.24 | -25.00 | 38.24 | 135 | 331 | Vertical |



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Test Band = SA Band38 _40MHz _ULMIMO_ TM1 Test Channel = Low

| Final | Data List | | | | | | | | | |
|-------|-----------|---------|--------|-----------|--------|--------|--------|--------|-------|------------|
| NO. | Frequency | Reading | Factor | Λ Γ[dD/m] | Level | Limit | Margin | Height | Angle | Dolority |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity |
| 1 | 4026.75 | 42.65 | -45.97 | 30.84 | -67.73 | -25.00 | 42.73 | 215 | 0 | Horizontal |
| 2 | 4738.5 | 41.36 | -45.58 | 32.13 | -67.34 | -25.00 | 42.34 | 136 | 331 | Horizontal |
| 3 | 5552.25 | 40.87 | -45.15 | 32.97 | -66.57 | -25.00 | 41.57 | 251 | 107 | Horizontal |
| 4 | 6690.75 | 39.76 | -43.86 | 35.62 | -63.74 | -25.00 | 38.74 | 145 | 302 | Horizontal |
| 5 | 8457.75 | 36.86 | -41.55 | 37.45 | -62.50 | -25.00 | 37.50 | 185 | 346 | Horizontal |
| 6 | 11321.25 | 28.47 | -37.41 | 39.11 | -65.09 | -25.00 | 40.09 | 126 | 211 | Horizontal |

| Final | Data List | | | | | | | | | |
|-------|-----------|---------|--------|-----------|--------|--------|--------|--------|-------|----------|
| NO. | Frequency | Reading | Factor | Λ Γ[dD/m] | Level | Limit | Margin | Height | Angle | Delerity |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity |
| 1 | 4272.75 | 42.09 | -45.60 | 31.25 | -67.52 | -25.00 | 42.52 | 251 | 21 | Vertical |
| 2 | 5217 | 41.18 | -45.25 | 32.97 | -66.35 | -25.00 | 41.35 | 148 | 199 | Vertical |
| 3 | 6486.75 | 40.74 | -44.58 | 34.98 | -64.13 | -25.00 | 39.13 | 186 | 152 | Vertical |
| 4 | 8101.5 | 34.84 | -41.37 | 37.05 | -64.75 | -25.00 | 39.75 | 163 | 318 | Vertical |
| 5 | 10706.25 | 28.43 | -37.93 | 39.15 | -65.61 | -25.00 | 40.61 | 258 | 109 | Vertical |
| 6 | 14613.75 | 24.87 | -35.20 | 39.92 | -65.67 | -25.00 | 40.67 | 174 | 152 | Vertical |



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Test Band = SA Band38 _40MHz _ULMIMO_ TM1 **Test Channel = Mid**

| Final | Data List | | | | | | | | | |
|-------|-----------|---------|--------|-----------|--------|--------|--------|--------|-------|------------|
| NO. | Frequency | Reading | Factor | Λ Γ[dD/m] | Level | Limit | Margin | Height | Angle | Dolority |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity |
| 1 | 4758 | 41.44 | -45.57 | 32.19 | -67.19 | -25.00 | 42.19 | 118 | 316 | Horizontal |
| 2 | 5964 | 41.11 | -44.88 | 34.06 | -64.97 | -25.00 | 39.97 | 145 | 165 | Horizontal |
| 3 | 6996 | 39.59 | -43.57 | 36.08 | -63.17 | -25.00 | 38.17 | 198 | 273 | Horizontal |
| 4 | 9087.75 | 33.80 | -40.43 | 38.26 | -63.63 | -25.00 | 38.63 | 156 | 0 | Horizontal |
| 5 | 11260.5 | 28.06 | -37.41 | 39.11 | -65.50 | -25.00 | 40.50 | 172 | 287 | Horizontal |
| 6 | 12776.25 | 26.39 | -36.79 | 39.59 | -66.08 | -25.00 | 41.08 | 180 | 331 | Horizontal |

| Final | Data List | | | | | | | | | |
|-------|-----------|---------|--------|-----------|--------|--------|--------|--------|-------|----------|
| NO. | Frequency | Reading | Factor | Λ Γ[dD/m] | Level | Limit | Margin | Height | Angle | Delerity |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity |
| 1 | 3794.25 | 42.11 | -45.90 | 30.31 | -68.74 | -25.00 | 43.74 | 255 | 199 | Vertical |
| 2 | 4739.25 | 41.52 | -45.58 | 32.13 | -67.18 | -25.00 | 42.18 | 142 | 319 | Vertical |
| 3 | 5838 | 40.68 | -44.83 | 33.82 | -65.59 | -25.00 | 40.59 | 163 | 258 | Vertical |
| 4 | 6996 | 39.67 | -43.57 | 36.08 | -63.09 | -25.00 | 38.09 | 259 | 258 | Vertical |
| 5 | 8932.5 | 35.41 | -41.16 | 38.16 | -62.85 | -25.00 | 37.85 | 291 | 0 | Vertical |
| 6 | 11835.75 | 24.80 | -37.00 | 38.79 | -68.67 | -25.00 | 43.67 | 175 | 0 | Vertical |



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Test Band = SA Band38_40MHz_ ULMIMO_ TM1 Test Channel = High

| Final | Data List | | | | | | | | | |
|-------|-----------|---------|--------|------------|--------|--------|--------|--------|-------|------------|
| NO. | Frequency | Reading | Factor | AF[dB/m] | Level | Limit | Margin | Height | Angle | Polarity |
| NO. | [MHz] | [dBµV] | [dB] | AF[ub/III] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polatity |
| 1 | 4220.25 | 41.41 | -45.72 | 31.14 | -68.43 | -25.00 | 43.43 | 244 | 152 | Horizontal |
| 2 | 5057.25 | 41.29 | -45.49 | 32.91 | -66.54 | -25.00 | 41.54 | 175 | 195 | Horizontal |
| 3 | 6576 | 40.10 | -44.41 | 35.34 | -64.23 | -25.00 | 39.23 | 153 | 17 | Horizontal |
| 4 | 8035.5 | 36.46 | -42.00 | 37.02 | -63.78 | -25.00 | 38.78 | 261 | 138 | Horizontal |
| 5 | 10340.25 | 29.52 | -39.06 | 38.85 | -65.95 | -25.00 | 40.95 | 185 | 346 | Horizontal |
| 6 | 14340 | 24.64 | -35.62 | 40.13 | -66.11 | -25.00 | 41.11 | 206 | 30 | Horizontal |

| Final | Data List | | | | | | | | | |
|-------|-----------|---------|--------|-----------|--------|--------|--------|--------|-------|----------|
| NO | Frequency | Reading | Factor | Λ Γ[dD/m] | Level | Limit | Margin | Height | Angle | Delerity |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity |
| 1 | 3781.5 | 41.80 | -45.84 | 30.26 | -69.04 | -25.00 | 44.04 | 144 | 300 | Vertical |
| 2 | 5241.75 | 40.79 | -45.20 | 32.95 | -66.72 | -25.00 | 41.72 | 126 | 251 | Vertical |
| 3 | 6483 | 40.45 | -44.58 | 34.96 | -64.43 | -25.00 | 39.43 | 259 | 212 | Vertical |
| 4 | 8547 | 35.80 | -41.48 | 37.64 | -63.31 | -25.00 | 38.31 | 291 | 263 | Vertical |
| 5 | 10654.5 | 27.82 | -38.15 | 39.10 | -66.48 | -25.00 | 41.48 | 148 | 240 | Vertical |
| 6 | 12071.25 | 26.00 | -37.42 | 39.03 | -67.66 | -25.00 | 42.66 | 173 | 0 | Vertical |



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Test Band = NSA 2A_n38A_ TM1 Test Channel = Low

| Final | Data List | | | | | | | | | |
|-------|-----------|---------|--------|-----------|--------|--------|--------|--------|-------|------------|
| NO | Frequency | Reading | Factor | Λ Γ[-ID/] | Level | Limit | Margin | Height | Angle | Delevite |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity |
| 1 | 5169 | 50.81 | -45.31 | 32.97 | -56.78 | -25.00 | 31.78 | 233 | 108 | Horizontal |
| 2 | 6724.5 | 40.10 | -43.90 | 35.69 | -63.37 | -25.00 | 38.37 | 189 | 211 | Horizontal |
| 3 | 7733.25 | 39.78 | -42.85 | 36.65 | -61.68 | -25.00 | 36.68 | 206 | 18 | Horizontal |
| 4 | 9478.5 | 33.97 | -40.14 | 38.47 | -62.96 | -25.00 | 37.96 | 265 | 0 | Horizontal |
| 5 | 11215.5 | 28.08 | -37.39 | 39.11 | -65.46 | -25.00 | 40.46 | 175 | 35 | Horizontal |
| 6 | 14390.25 | 24.66 | -34.93 | 40.09 | -65.45 | -25.00 | 40.45 | 144 | 168 | Horizontal |

| Final | Data List | | | | | | | | | |
|-------|-----------|---------|--------|-----------|--------|--------|--------|--------|-------|----------|
| NO. | Frequency | Reading | Factor | Λ Γ[dD/m] | Level | Limit | Margin | Height | Angle | Dolority |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity |
| 1 | 4843.5 | 44.97 | -45.54 | 32.44 | -63.38 | -25.00 | 38.38 | 211 | 35 | Vertical |
| 2 | 7426.5 | 39.68 | -43.34 | 36.48 | -62.44 | -25.00 | 37.44 | 149 | 316 | Vertical |
| 3 | 8406.75 | 37.06 | -41.46 | 37.34 | -62.32 | -25.00 | 37.32 | 128 | 35 | Vertical |
| 4 | 9426 | 33.67 | -39.93 | 38.48 | -63.04 | -25.00 | 38.04 | 156 | 357 | Vertical |
| 5 | 11238 | 28.31 | -37.40 | 39.11 | -65.24 | -25.00 | 40.24 | 327 | 273 | Vertical |
| 6 | 16490.25 | 27.64 | -33.90 | 37.91 | -63.62 | -25.00 | 38.62 | 142 | 21 | Vertical |



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Test Band = NSA 2A_n38A_ TM1 Test Channel = Mid

| Final | Data List | | | | | | | | | |
|-------|-----------|---------|--------|-----------|--------|--------|--------|--------|-------|------------|
| NO. | Frequency | Reading | Factor | Λ Γ[dD/m] | Level | Limit | Margin | Height | Angle | Delerity |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity |
| 1 | 4843.5 | 43.82 | -45.54 | 32.44 | -64.53 | -25.00 | 39.53 | 271 | 35 | Horizontal |
| 2 | 7008 | 40.58 | -43.60 | 36.10 | -62.18 | -25.00 | 37.18 | 186 | 153 | Horizontal |
| 3 | 8411.25 | 37.66 | -41.47 | 37.35 | -61.72 | -25.00 | 36.72 | 239 | 272 | Horizontal |
| 4 | 11144.25 | 28.88 | -37.71 | 39.10 | -64.99 | -25.00 | 39.99 | 247 | 0 | Horizontal |
| 5 | 13856.25 | 26.36 | -35.87 | 40.01 | -64.76 | -25.00 | 39.76 | 144 | 243 | Horizontal |
| 6 | 16473 | 28.06 | -34.02 | 37.87 | -63.35 | -25.00 | 38.35 | 125 | 331 | Horizontal |

| Final | Data List | | | | | | | | | |
|-------|-----------|---------|--------|-----------|--------|--------|--------|--------|-------|----------|
| NO. | Frequency | Reading | Factor | Λ Γ[dD/m] | Level | Limit | Margin | Height | Angle | Delerity |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity |
| 1 | 5152.5 | 57.16 | -45.32 | 32.96 | -50.46 | -25.00 | 25.46 | 229 | 357 | Vertical |
| 2 | 7728.75 | 42.66 | -42.89 | 36.64 | -58.85 | -25.00 | 33.85 | 185 | 357 | Vertical |
| 3 | 9426 | 34.58 | -39.93 | 38.48 | -62.13 | -25.00 | 37.13 | 164 | 154 | Vertical |
| 4 | 11142 | 28.85 | -37.73 | 39.10 | -65.04 | -25.00 | 40.04 | 271 | 227 | Vertical |
| 5 | 13909.5 | 26.58 | -35.48 | 40.06 | -64.10 | -25.00 | 39.10 | 158 | 1 | Vertical |
| 6 | 16431.75 | 28.31 | -34.28 | 37.79 | -63.45 | -25.00 | 38.45 | 220 | 154 | Vertical |



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Test Band = NSA 2A_n38A_ TM1 Test Channel = High

| Final | Data List | | | | | | | | | |
|-------|-----------|---------|--------|-----------|--------|--------|--------|--------|-------|------------|
| NO. | Frequency | Reading | Factor | Λ Γ[dD/m] | Level | Limit | Margin | Height | Angle | Delerity |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity |
| 1 | 5151.75 | 50.18 | -45.32 | 32.96 | -57.44 | -25.00 | 32.44 | 155 | 21 | Horizontal |
| 2 | 7005.75 | 40.28 | -43.59 | 36.09 | -62.47 | -25.00 | 37.47 | 187 | 1 | Horizontal |
| 3 | 8433 | 37.96 | -41.51 | 37.40 | -61.41 | -25.00 | 36.41 | 165 | 316 | Horizontal |
| 4 | 11142 | 29.52 | -37.73 | 39.10 | -64.37 | -25.00 | 39.37 | 298 | 148 | Horizontal |
| 5 | 14444.25 | 26.01 | -34.82 | 40.05 | -64.02 | -25.00 | 39.02 | 156 | 0 | Horizontal |
| 6 | 17230.5 | 29.75 | -35.14 | 38.65 | -62.00 | -25.00 | 37.00 | 244 | 11 | Horizontal |

| Final | Data List | | | | | | | | | |
|-------|-----------|---------|--------|-----------|--------|--------|--------|--------|-------|----------|
| NO. | Frequency | Reading | Factor | Λ Γ[dD/m] | Level | Limit | Margin | Height | Angle | Delerity |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity |
| 1 | 5163 | 60.20 | -45.31 | 32.97 | -47.40 | -25.00 | 22.40 | 277 | 43 | Vertical |
| 2 | 7728 | 45.99 | -42.89 | 36.64 | -55.52 | -25.00 | 30.52 | 181 | 87 | Vertical |
| 3 | 9481.5 | 35.15 | -40.16 | 38.47 | -61.80 | -25.00 | 36.80 | 213 | 301 | Vertical |
| 4 | 11199.75 | 29.49 | -37.39 | 39.11 | -64.05 | -25.00 | 39.05 | 256 | 147 | Vertical |
| 5 | 13834.5 | 27.60 | -36.07 | 39.99 | -63.74 | -25.00 | 38.74 | 247 | 178 | Vertical |
| 6 | 16451.25 | 28.12 | -34.16 | 37.83 | -63.47 | -25.00 | 38.47 | 180 | 224 | Vertical |



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Test Band = NSA 5A_n38A_ TM1 Test Channel = Low

| Final | Data List | | | | | | | | | |
|-------|-----------|---------|--------|-----------|--------|--------|--------|--------|-------|------------|
| NO. | Frequency | Reading | Factor | Λ Γ[dD/m] | Level | Limit | Margin | Height | Angle | Dolority |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity |
| 1 | 5144.25 | 55.70 | -45.33 | 32.96 | -51.93 | -25.00 | 26.93 | 229 | 5 | Horizontal |
| 2 | 6745.5 | 40.95 | -43.97 | 35.73 | -62.55 | -25.00 | 37.55 | 174 | 319 | Horizontal |
| 3 | 8407.5 | 38.19 | -41.46 | 37.35 | -61.19 | -25.00 | 36.19 | 215 | 49 | Horizontal |
| 4 | 10098.75 | 32.59 | -39.12 | 38.65 | -63.14 | -25.00 | 38.14 | 293 | 227 | Horizontal |
| 5 | 13661.25 | 27.70 | -36.13 | 40.09 | -63.60 | -25.00 | 38.60 | 242 | 0 | Horizontal |
| 6 | 16367.25 | 28.48 | -34.54 | 37.70 | -63.61 | -25.00 | 38.61 | 151 | 35 | Horizontal |

| Final | Data List | | | | | | | | | |
|-------|-----------|---------|--------|-----------|--------|--------|--------|--------|-------|----------|
| NO | Frequency | Reading | Factor | Λ Γ[-ID/] | Level | Limit | Margin | Height | Angle | Dolovitu |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity |
| 1 | 5145.75 | 60.69 | -45.33 | 32.96 | -46.94 | -25.00 | 21.94 | 244 | 32 | Vertical |
| 2 | 7728 | 44.75 | -42.89 | 36.64 | -56.76 | -25.00 | 31.76 | 132 | 32 | Vertical |
| 3 | 9607.5 | 34.71 | -39.65 | 38.43 | -61.77 | -25.00 | 36.77 | 256 | 256 | Vertical |
| 4 | 11211.75 | 30.12 | -37.39 | 39.11 | -63.42 | -25.00 | 38.42 | 288 | 242 | Vertical |
| 5 | 13850.25 | 28.13 | -35.92 | 40.01 | -63.05 | -25.00 | 38.05 | 179 | 0 | Vertical |
| 6 | 17237.25 | 30.29 | -35.17 | 38.66 | -61.49 | -25.00 | 36.49 | 256 | 93 | Vertical |



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Test Band = NSA 5A_n38A_ TM1 Test Channel = Mid

| Final | Data List | | | | | | | | | |
|-------|-----------|---------|--------|-----------|--------|--------|--------|--------|-------|------------|
| NO. | Frequency | Reading | Factor | Λ Γ[dD/m] | Level | Limit | Margin | Height | Angle | Delevity |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity |
| 1 | 5151.75 | 50.52 | -45.32 | 32.96 | -57.10 | -25.00 | 32.10 | 217 | 120 | Horizontal |
| 2 | 6984 | 40.98 | -43.64 | 36.06 | -61.86 | -25.00 | 36.86 | 182 | 148 | Horizontal |
| 3 | 7728 | 42.21 | -42.89 | 36.64 | -59.30 | -25.00 | 34.30 | 239 | 1 | Horizontal |
| 4 | 10077 | 33.49 | -39.15 | 38.61 | -62.30 | -25.00 | 37.30 | 172 | 7 | Horizontal |
| 5 | 12726 | 28.67 | -36.72 | 39.50 | -63.81 | -25.00 | 38.81 | 144 | 29 | Horizontal |
| 6 | 13703.25 | 28.25 | -36.17 | 40.05 | -63.13 | -25.00 | 38.13 | 286 | 240 | Horizontal |

| Final | Data List | | | | | | | | | |
|-------|-----------|---------|--------|-----------|--------|--------|--------|--------|-------|----------|
| NO | Frequency | Reading | Factor | Λ Γ[dD/m] | Level | Limit | Margin | Height | Angle | Delerity |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity |
| 1 | 4531.5 | 43.87 | -45.70 | 31.64 | -65.45 | -25.00 | 40.45 | 219 | 64 | Vertical |
| 2 | 5152.5 | 58.27 | -45.32 | 32.96 | -49.35 | -25.00 | 24.35 | 286 | 4 | Vertical |
| 3 | 7728 | 46.45 | -42.89 | 36.64 | -55.06 | -25.00 | 30.06 | 177 | 213 | Vertical |
| 4 | 10040.25 | 33.32 | -39.19 | 38.55 | -62.58 | -25.00 | 37.58 | 246 | 332 | Vertical |
| 5 | 14391 | 27.27 | -34.92 | 40.09 | -62.83 | -25.00 | 37.83 | 238 | 92 | Vertical |
| 6 | 17196 | 30.55 | -34.97 | 38.61 | -61.07 | -25.00 | 36.07 | 175 | 1 | Vertical |



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Test Band = NSA 5A_n38A_ TM1 Test Channel = High

| Final | Data List | | | | | | | | | |
|-------|-----------|---------|--------|------------|--------|--------|--------|--------|-------|------------|
| NO. | Frequency | Reading | Factor | AF[dB/m] | Level | Limit | Margin | Height | Angle | Polarity |
| NO. | [MHz] | [dBµV] | [dB] | AF[ub/III] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polatity |
| 1 | 5164.5 | 53.43 | -45.31 | 32.97 | -54.17 | -25.00 | 29.17 | 214 | 257 | Horizontal |
| 2 | 7728 | 45.04 | -42.89 | 36.64 | -56.47 | -25.00 | 31.47 | 195 | 0 | Horizontal |
| 3 | 8412.75 | 38.49 | -41.47 | 37.36 | -60.88 | -25.00 | 35.88 | 185 | 213 | Horizontal |
| 4 | 10113.75 | 33.57 | -39.17 | 38.67 | -62.19 | -25.00 | 37.19 | 142 | 331 | Horizontal |
| 5 | 13734 | 28.89 | -36.24 | 40.02 | -62.59 | -25.00 | 37.59 | 135 | 346 | Horizontal |
| 6 | 16480.5 | 29.98 | -33.97 | 37.89 | -61.36 | -25.00 | 36.36 | 166 | 91 | Horizontal |

| Final | Data List | | | | | | | | | |
|-------|-----------|---------|--------|-----------|--------|--------|--------|--------|-------|----------|
| NO. | Frequency | Reading | Factor | Λ Γ[dD/m] | Level | Limit | Margin | Height | Angle | Delerity |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity |
| 1 | 5152.5 | 59.18 | -45.32 | 32.96 | -48.44 | -25.00 | 23.44 | 214 | 108 | Vertical |
| 2 | 7728.75 | 43.17 | -42.89 | 36.64 | -58.34 | -25.00 | 33.34 | 188 | 240 | Vertical |
| 3 | 8931 | 37.49 | -41.17 | 38.16 | -60.78 | -25.00 | 35.78 | 170 | 18 | Vertical |
| 4 | 11210.25 | 31.33 | -37.39 | 39.11 | -62.21 | -25.00 | 37.21 | 239 | 24 | Vertical |
| 5 | 13605 | 29.69 | -36.08 | 40.15 | -61.51 | -25.00 | 36.51 | 306 | 15 | Vertical |
| 6 | 16488 | 29.48 | -33.92 | 37.90 | -61.80 | -25.00 | 36.80 | 248 | 23 | 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

| Band | scs | Bandwidth | Modulation | Channel | RB Config | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict | |
|------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|--|
| N38 | 30 | 40 | DFT-PI2BPSK | М | Outer_Full | VH | NT | 1.800000 | 0.000694 | PASS | |
| N38 | 30 | 40 | DFT-PI2BPSK | М | Outer_Full | VN | NT | -6.400000 | -0.002466 | PASS | |
| N38 | 30 | 40 | DFT-PI2BPSK | М | Outer_Full | VL | NT | -6.600000 | -0.002543 | PASS | |
| N38 | 30 | 40 | CP-QPSK | М | Outer_Full | VH | NT | 7.700000 | 0.002967 | PASS | |
| N38 | 30 | 40 | CP-QPSK | М | Outer_Full | VN | NT | 4.100000 | 0.001580 | PASS | |
| N38 | 30 | 40 | CP-QPSK | М | Outer_Full | VL | NT | -4.300000 | -0.001657 | PASS | |

Frequency Error VS. Temperature

| Frequency Error v3. remperature | | | | | | | | | | |
|---------------------------------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|--------------------|---------|
| Band | scs | Bandwidth | Modulation | Channel | RB Config | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N38 | 30 | 40 | DFT-PI2BPSK | М | Outer_Full | NV | -30 | 6.400000 | 0.002466 | PASS |
| N38 | 30 | 40 | DFT-PI2BPSK | М | Outer_Full | NV | -20 | -1.800000 | -0.000694 | PASS |
| N38 | 30 | 40 | DFT-PI2BPSK | М | Outer_Full | NV | -10 | 8.900000 | 0.003430 | PASS |
| N38 | 30 | 40 | DFT-PI2BPSK | М | Outer_Full | NV | 0 | -1.100000 | -0.000424 | PASS |
| N38 | 30 | 40 | DFT-PI2BPSK | М | Outer_Full | NV | 10 | -8.000000 | -0.003083 | PASS |
| N38 | 30 | 40 | DFT-PI2BPSK | М | Outer_Full | NV | 20 | -1.500000 | -0.000578 | PASS |
| N38 | 30 | 40 | DFT-PI2BPSK | М | Outer_Full | NV | 30 | 0.800000 | 0.000308 | PASS |
| N38 | 30 | 40 | DFT-PI2BPSK | М | Outer_Full | NV | 40 | -1.300000 | -0.000501 | PASS |
| N38 | 30 | 40 | DFT-PI2BPSK | М | Outer_Full | NV | 50 | 4.200000 | 0.001618 | PASS |
| N38 | 30 | 40 | CP-QPSK | М | Outer_Full | NV | -30 | 23.400000 | 0.009017 | PASS |
| N38 | 30 | 40 | CP-QPSK | М | Outer_Full | NV | -20 | 0.000000 | 0.000000 | PASS |
| N38 | 30 | 40 | CP-QPSK | М | Outer_Full | NV | -10 | 5.600000 | 0.002158 | PASS |
| N38 | 30 | 40 | CP-QPSK | М | Outer_Full | NV | 0 | 10.400000 | 0.004008 | PASS |
| N38 | 30 | 40 | CP-QPSK | М | Outer_Full | NV | 10 | 16.700000 | 0.006435 | PASS |
| N38 | 30 | 40 | CP-QPSK | М | Outer_Full | NV | 20 | 2.500000 | 0.000963 | PASS |
| N38 | 30 | 40 | CP-QPSK | М | Outer_Full | NV | 30 | 11.200000 | 0.004316 | PASS |
| N38 | 30 | 40 | CP-QPSK | М | Outer_Full | NV | 40 | 0.900000 | 0.000347 | PASS |
| N38 | 30 | 40 | CP-QPSK | М | Outer_Full | NV | 50 | 8.800000 | 0.003391 | PASS |

---End of Attachment--



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