



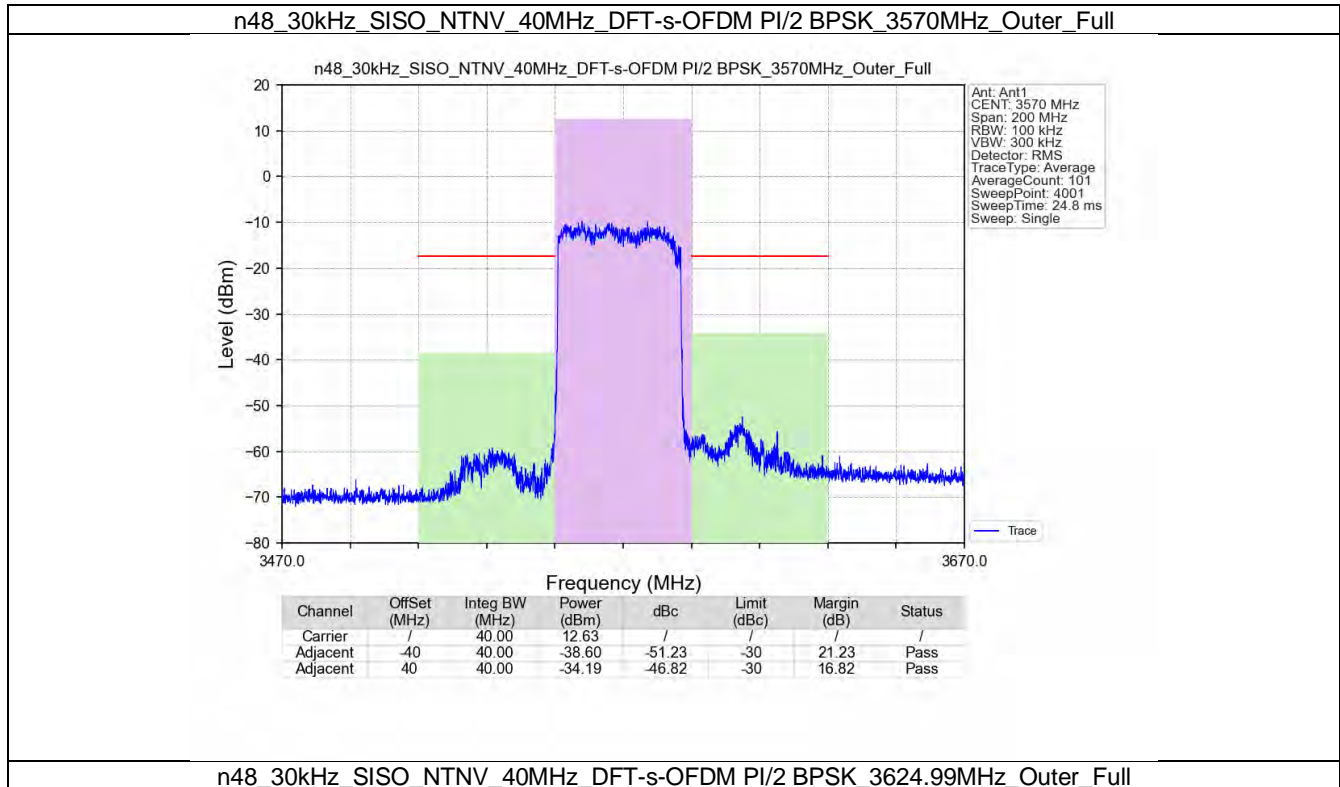
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6.3.2 Test Graph



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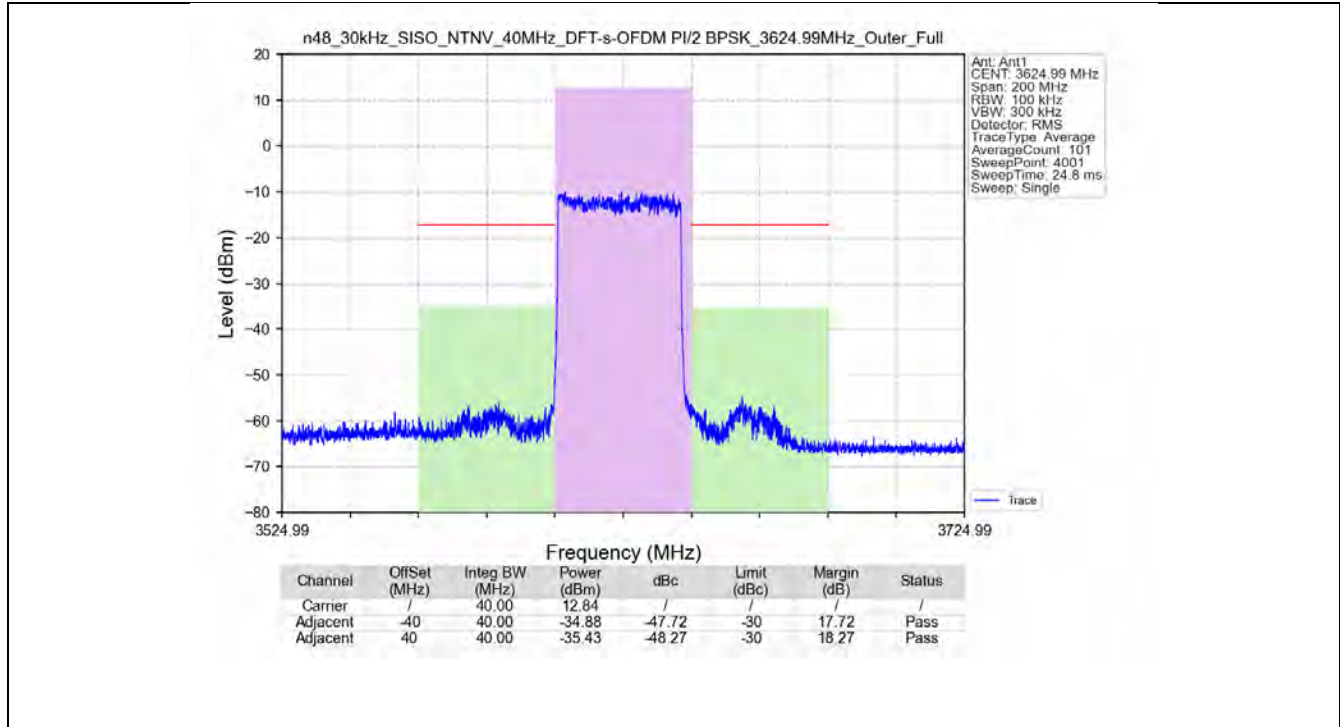


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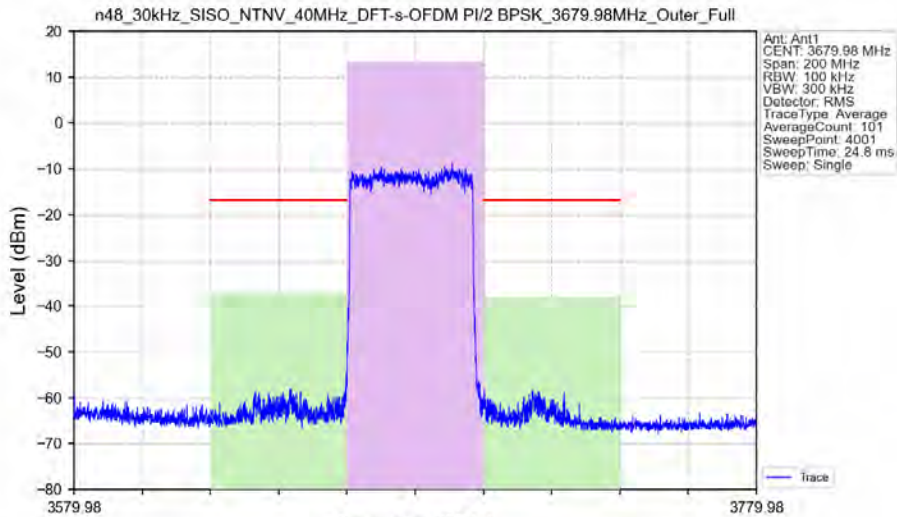
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3570MHz_Outer_Full



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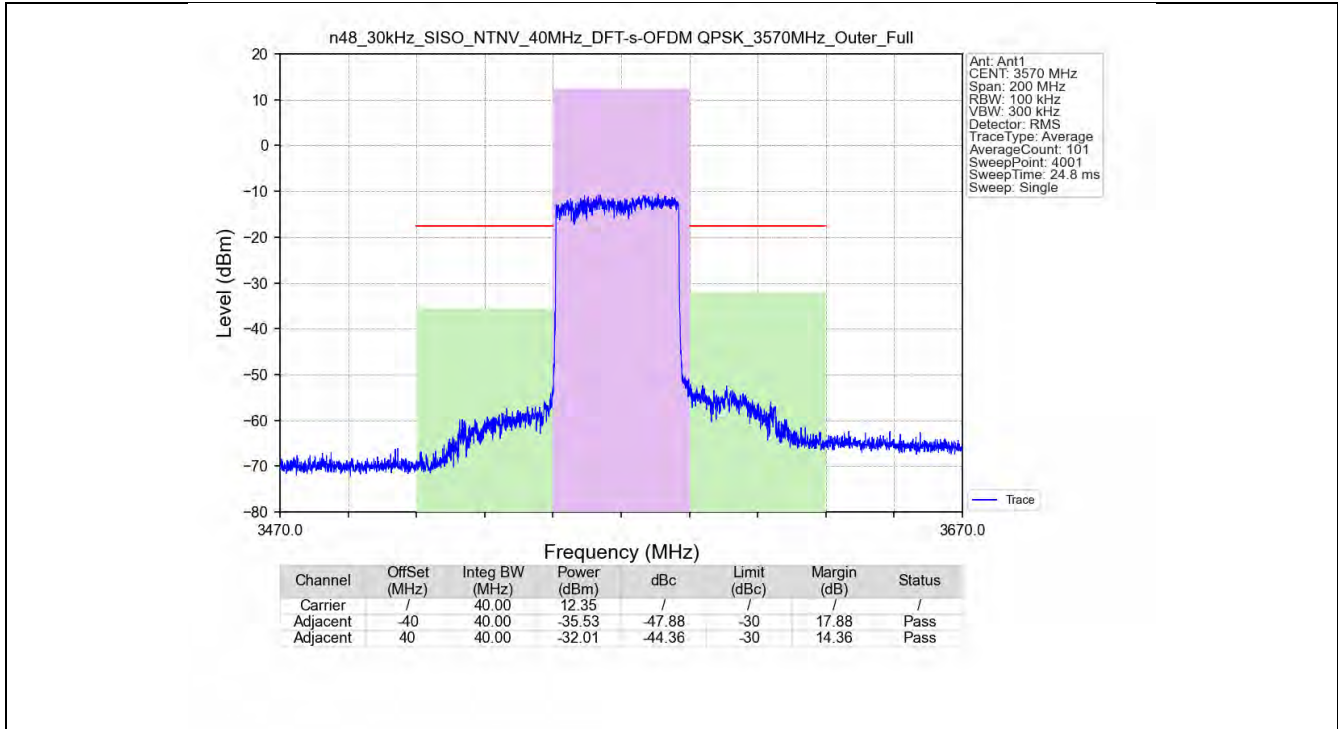


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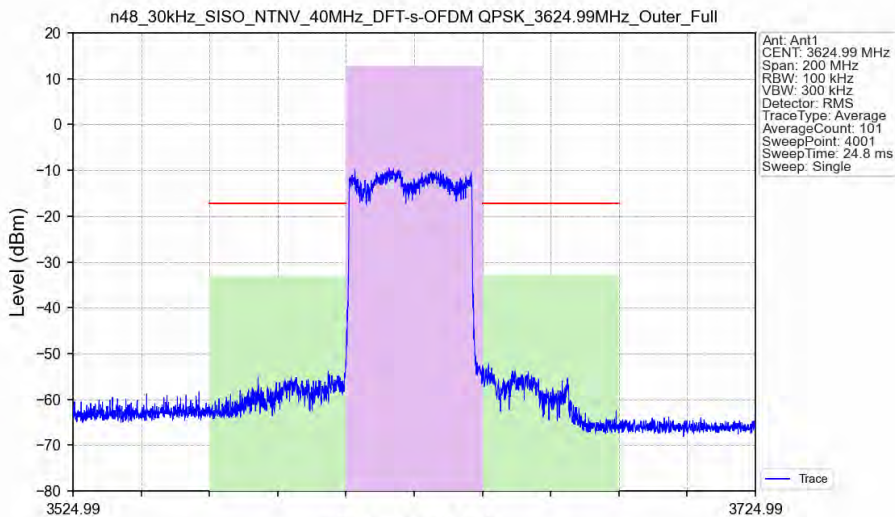
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3624.99MHz_Outer_Full



| Channel | OffSet (MHz) | Integ BW (MHz) | Power (dBm) | dBc | Limit (dBc) | Margin (dB) | Status |
|----------|--------------|----------------|-------------|--------|-------------|-------------|--------|
| Carrier | / | 40.00 | 12.74 | / | / | / | / |
| Adjacent | -40 | 40.00 | -33.04 | -45.78 | -30 | 15.78 | Pass |
| Adjacent | 40 | 40.00 | -32.88 | -45.62 | -30 | 15.62 | Pass |

n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3679.98MHz_Outer_Full



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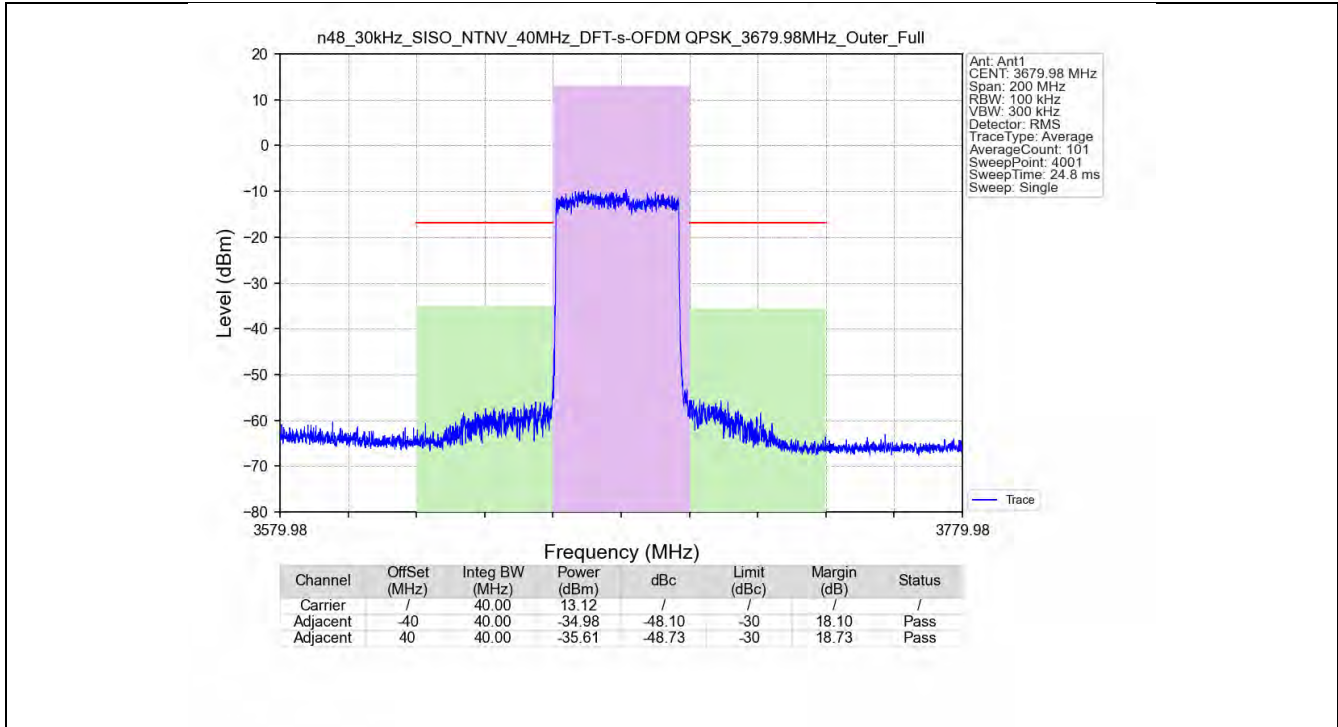


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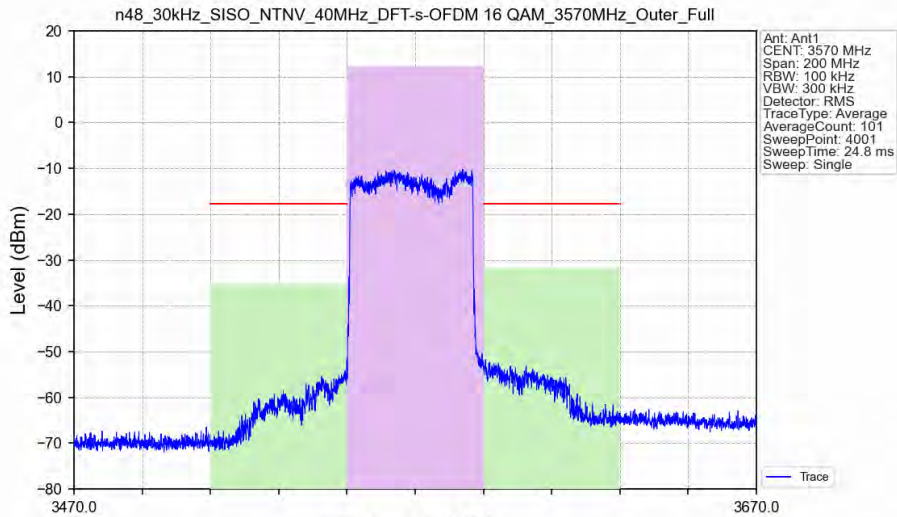
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_3570MHz_Outer_Full



| Channel | OffSet (MHz) | Integ BW (MHz) | Power (dBm) | dBc | Limit (dBc) | Margin (dB) | Status |
|----------|--------------|----------------|-------------|--------|-------------|-------------|--------|
| Carrier | / | 40.00 | 12.24 | / | / | / | / |
| Adjacent | -40 | 40.00 | -35.16 | -47.40 | -30 | 17.40 | Pass |
| Adjacent | 40 | 40.00 | -31.70 | -43.94 | -30 | 13.94 | Pass |

n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_3624.99MHz_Outer_Full



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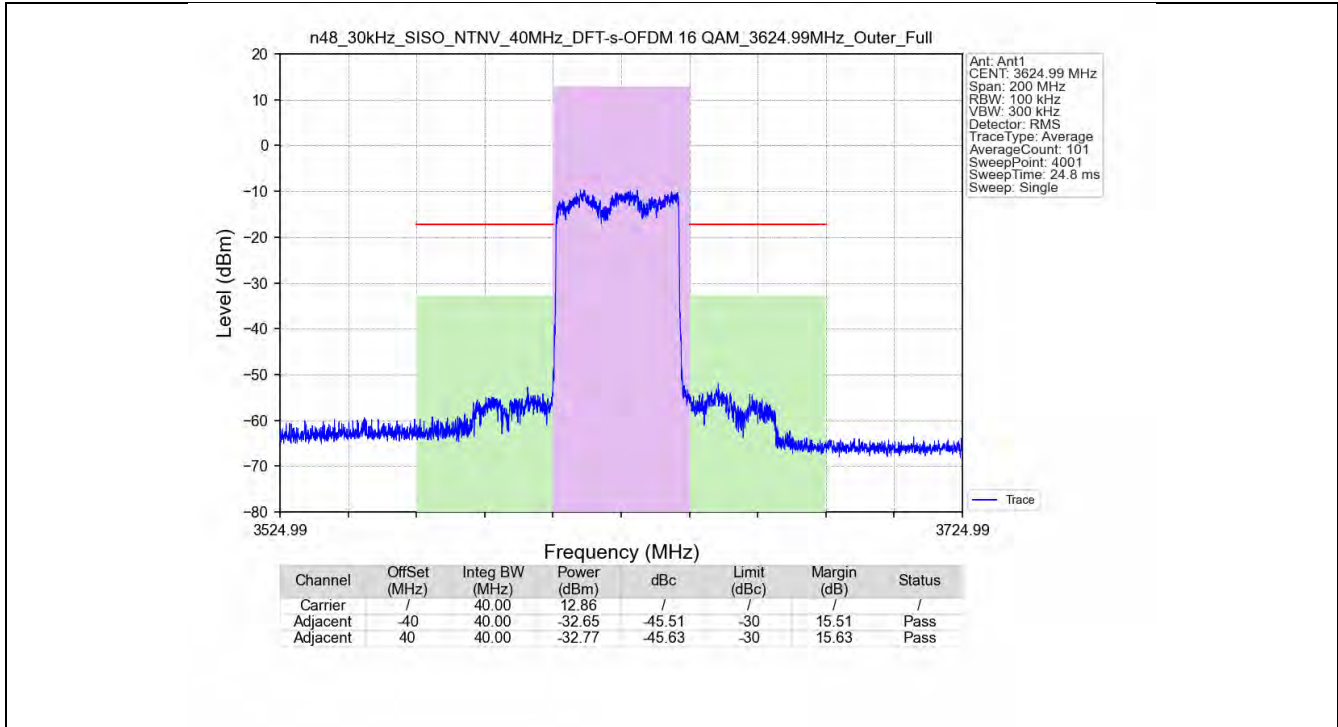


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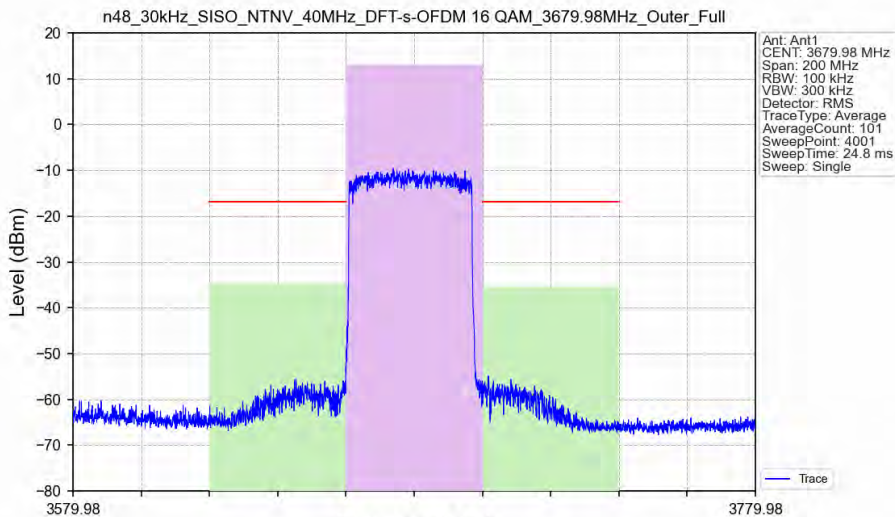
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_3679.98MHz_Outer_Full



| Channel | OffSet (MHz) | Integ BW (MHz) | Power (dBm) | dBc | Limit (dBc) | Margin (dB) | Status |
|----------|--------------|----------------|-------------|--------|-------------|-------------|--------|
| Carrier | / | 40.00 | 13.18 | / | / | / | / |
| Adjacent | -40 | 40.00 | -34.73 | -47.91 | -30 | 17.91 | Pass |
| Adjacent | 40 | 40.00 | -35.45 | -48.63 | -30 | 18.63 | Pass |

n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_3570MHz_Outer_Full



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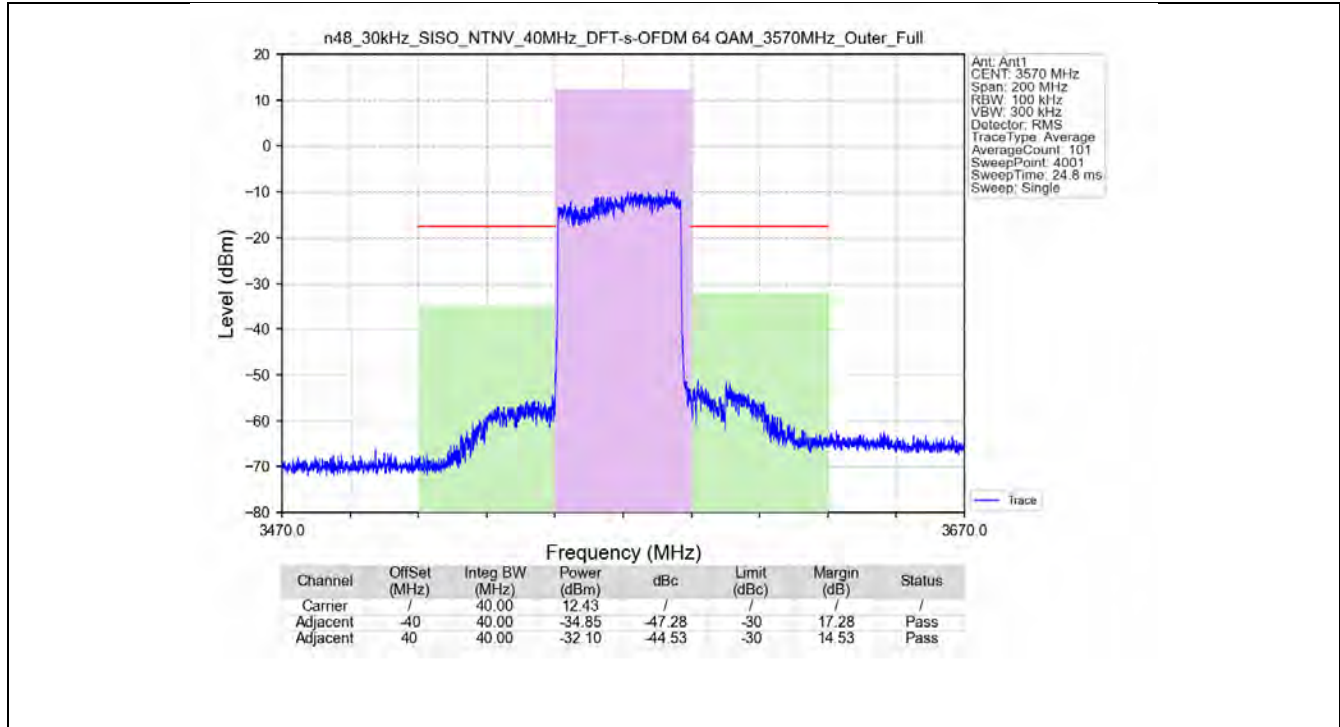


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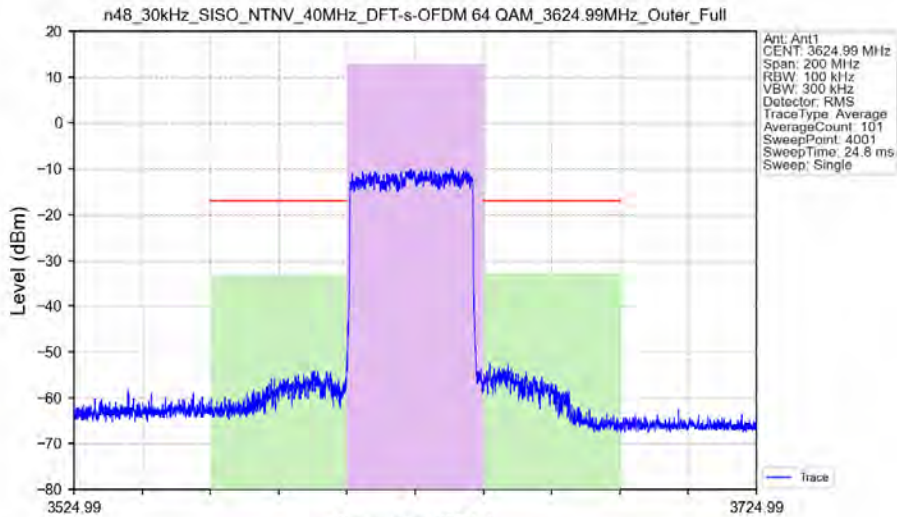
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| Channel | Offset (MHz) | Integ BW (MHz) | Power (dBm) | dBc | Limit (dBc) | Margin (dB) | Status |
|----------|--------------|----------------|-------------|--------|-------------|-------------|--------|
| Carrier | / | 40.00 | 12.98 | / | / | / | / |
| Adjacent | -40 | 40.00 | -33.06 | -46.04 | -30 | 16.04 | Pass |
| Adjacent | 40 | 40.00 | -32.98 | -45.96 | -30 | 15.96 | Pass |

n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_3679.98MHz_Outer_Full



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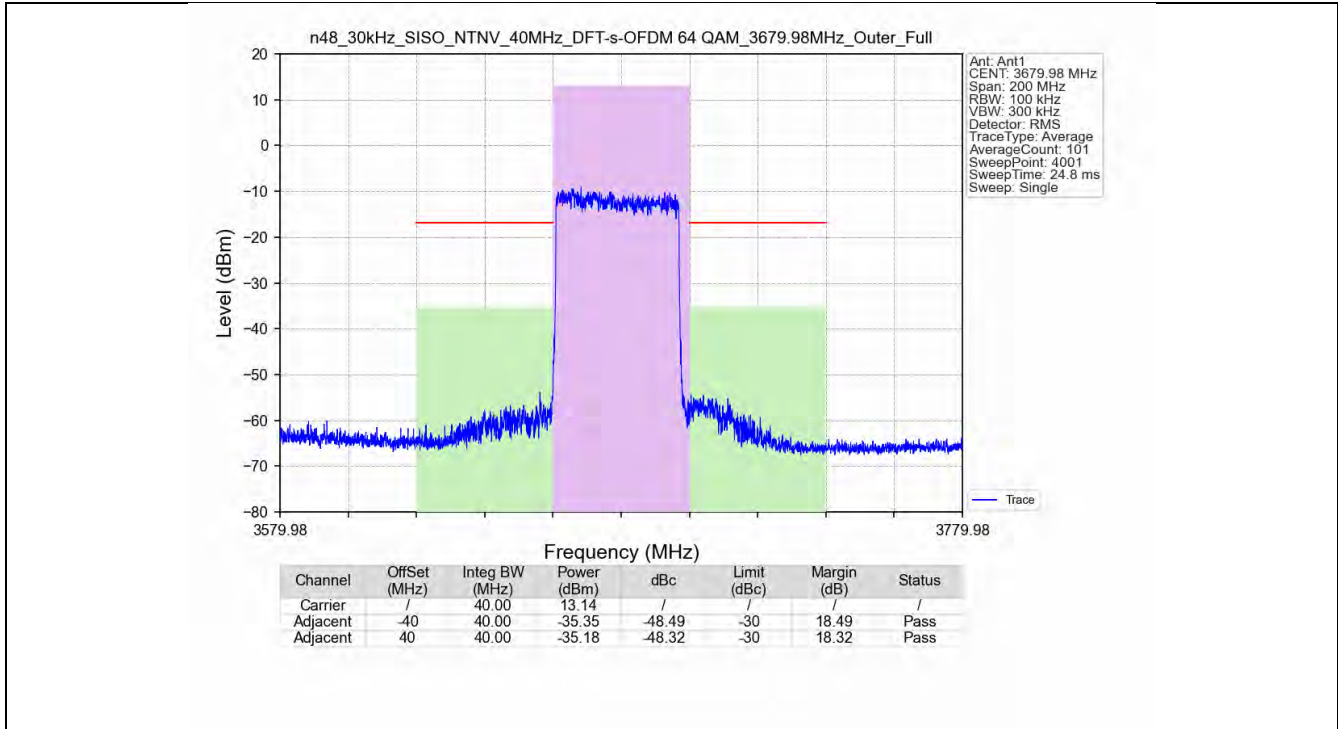


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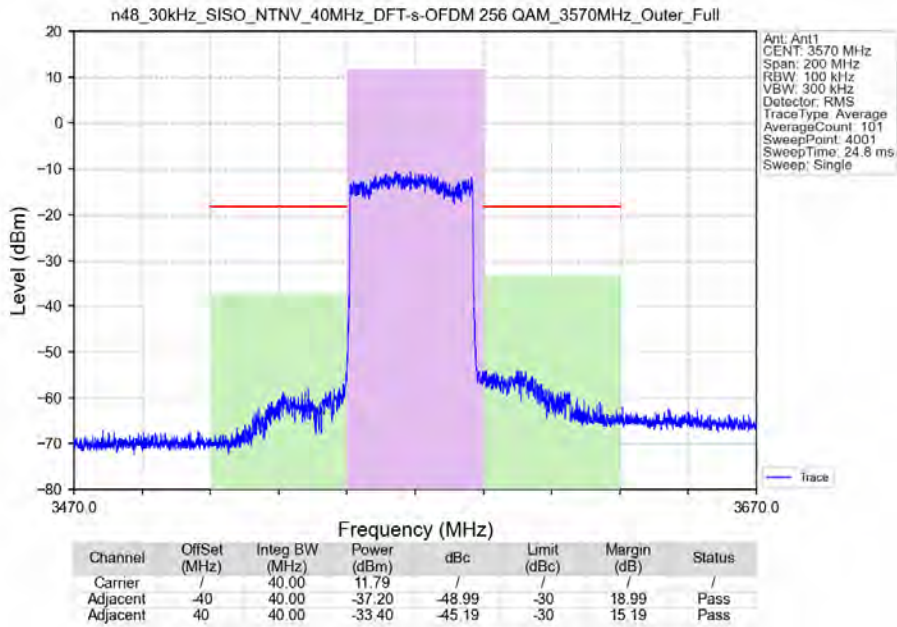
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_3570MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_3624.99MHz_Outer_Full



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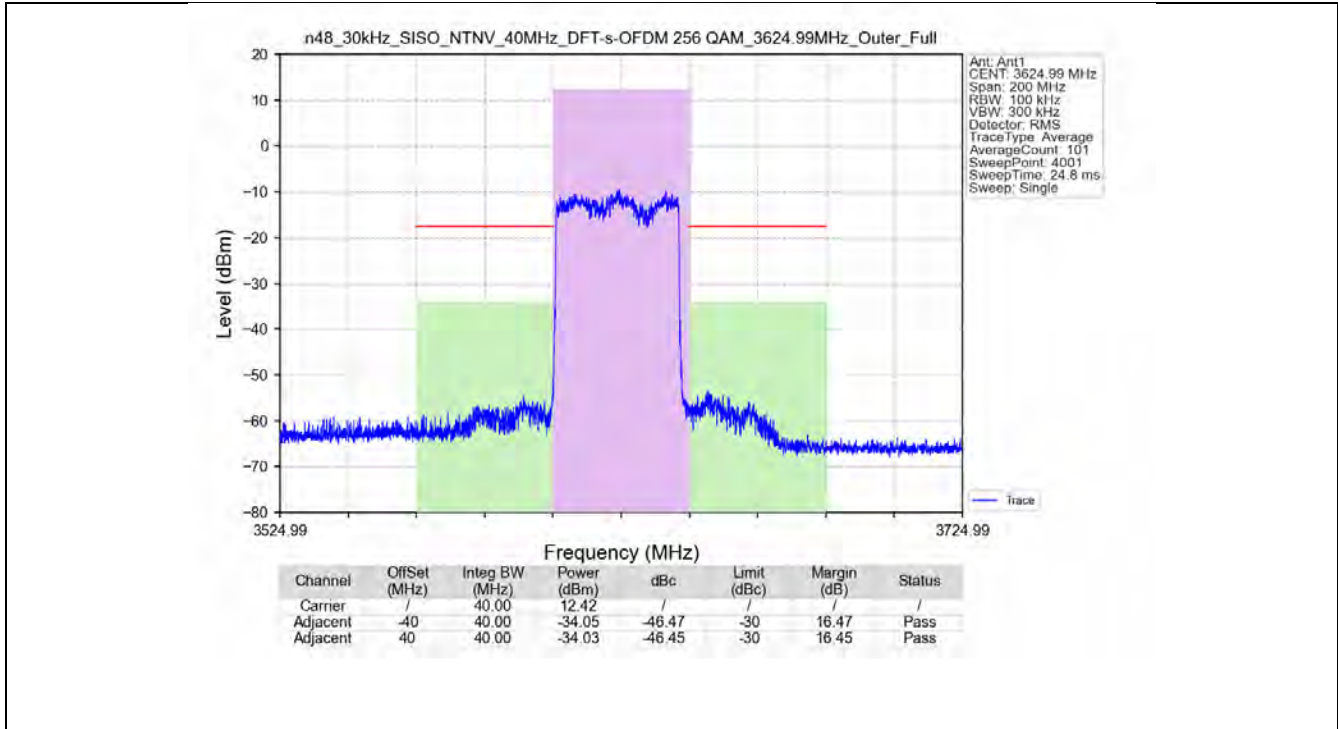


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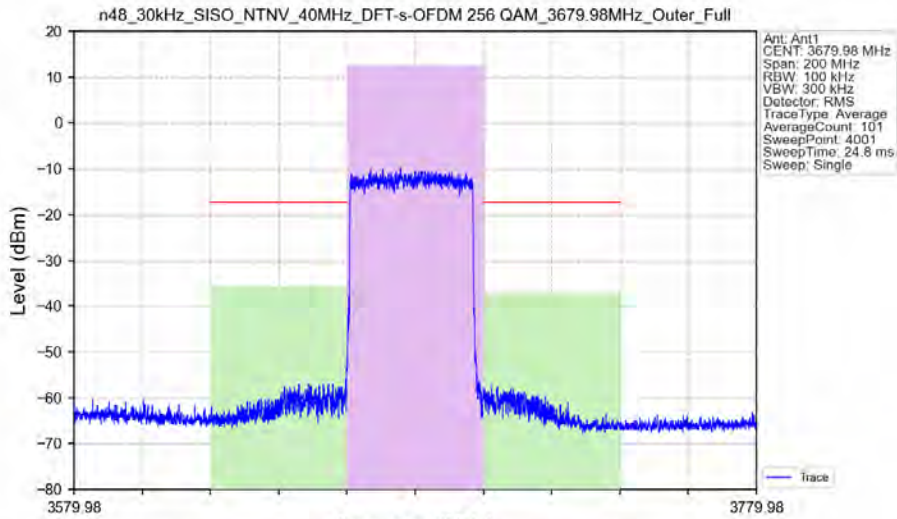
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Outer_Full



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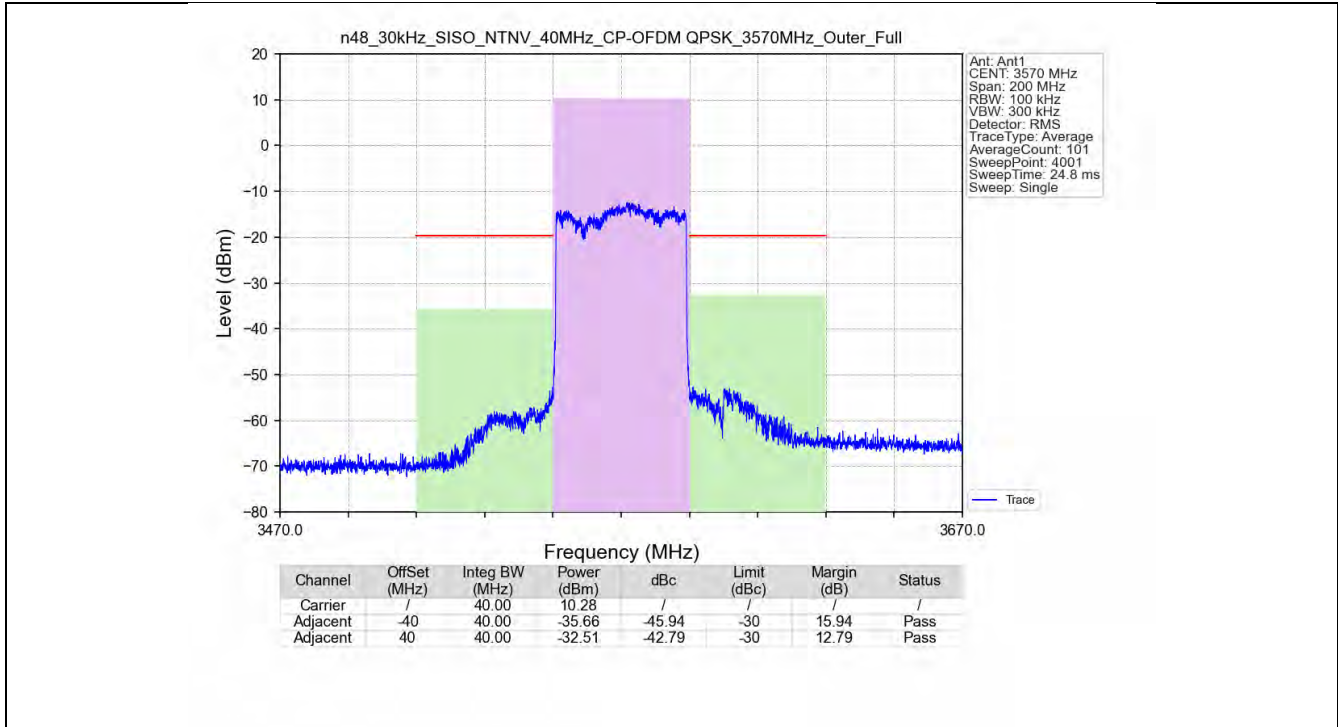


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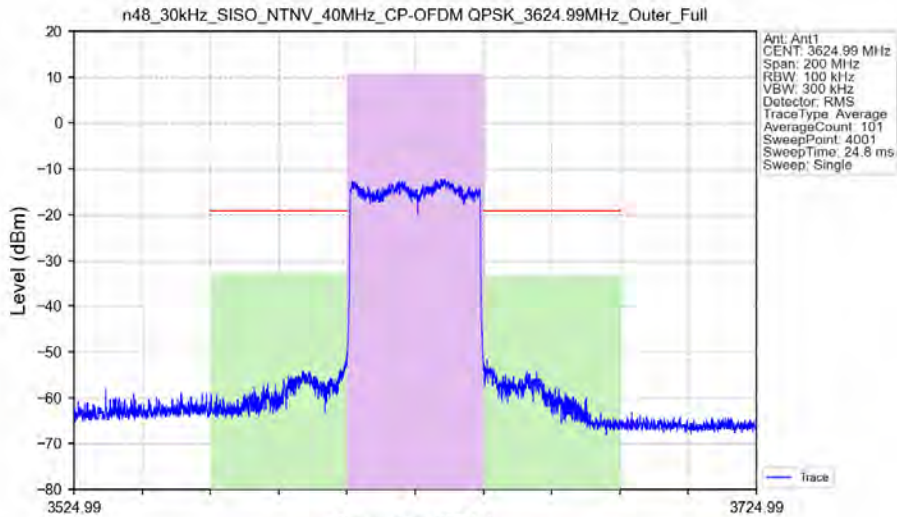
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



| Channel | Offset (MHz) | Integ BW (MHz) | Power (dBm) | dBc | Limit (dBc) | Margin (dB) | Status |
|----------|--------------|----------------|-------------|--------|-------------|-------------|--------|
| Carrier | / | 40.00 | 10.80 | / | / | / | / |
| Adjacent | -40 | 40.00 | -32.69 | -43.49 | -30 | 13.49 | Pass |
| Adjacent | 40 | 40.00 | -33.18 | -43.98 | -30 | 13.98 | Pass |

n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Outer_Full



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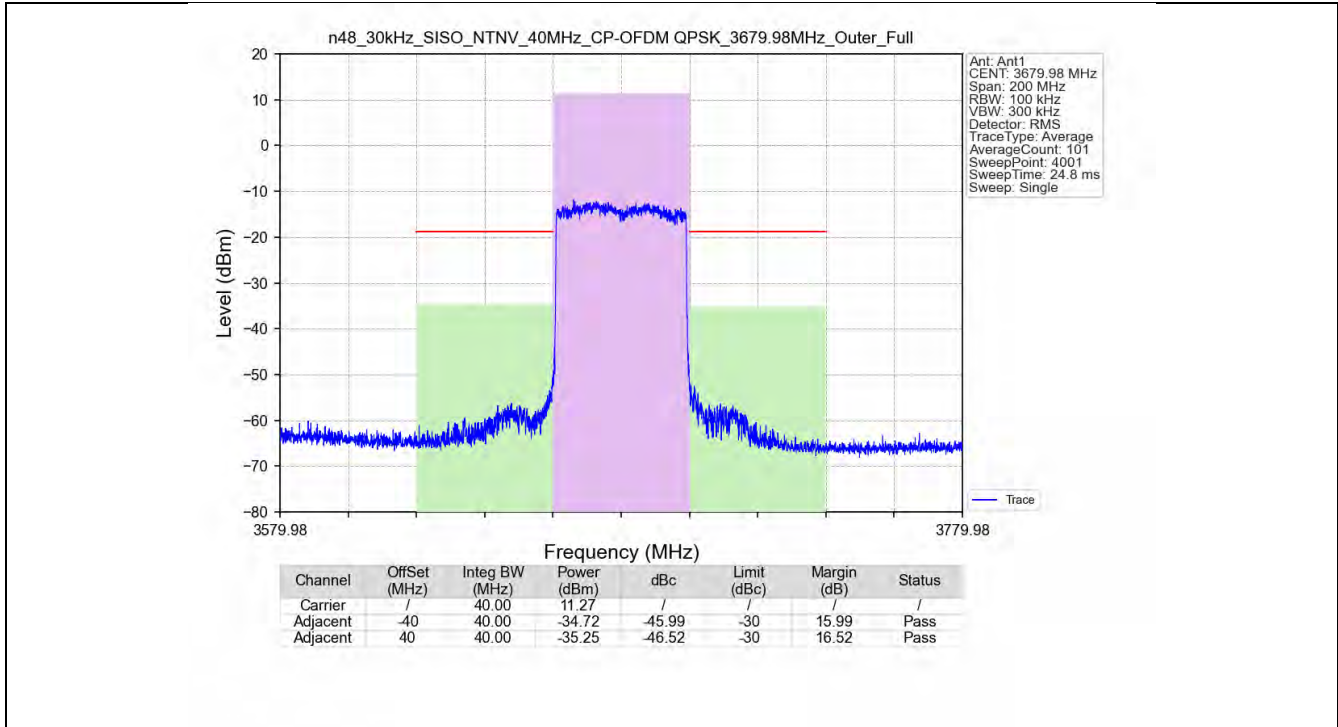


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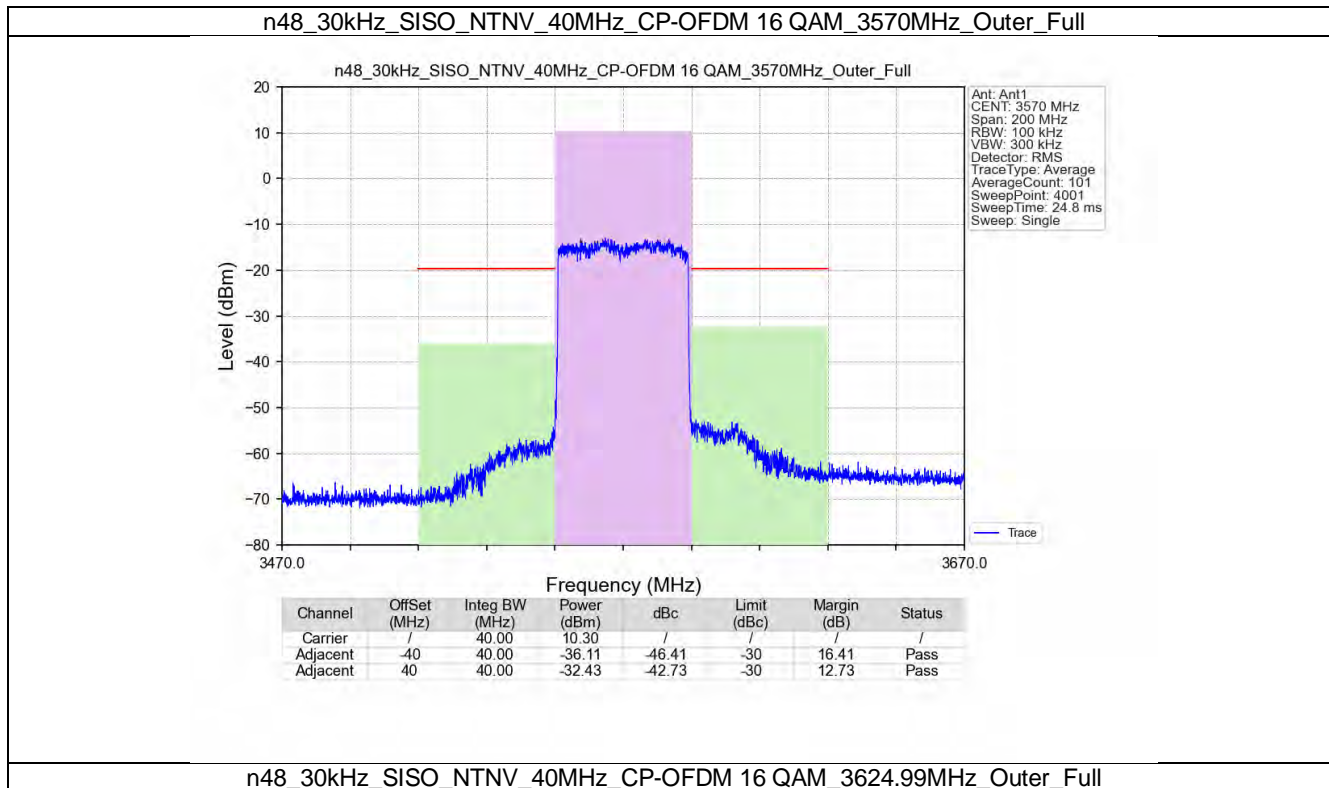
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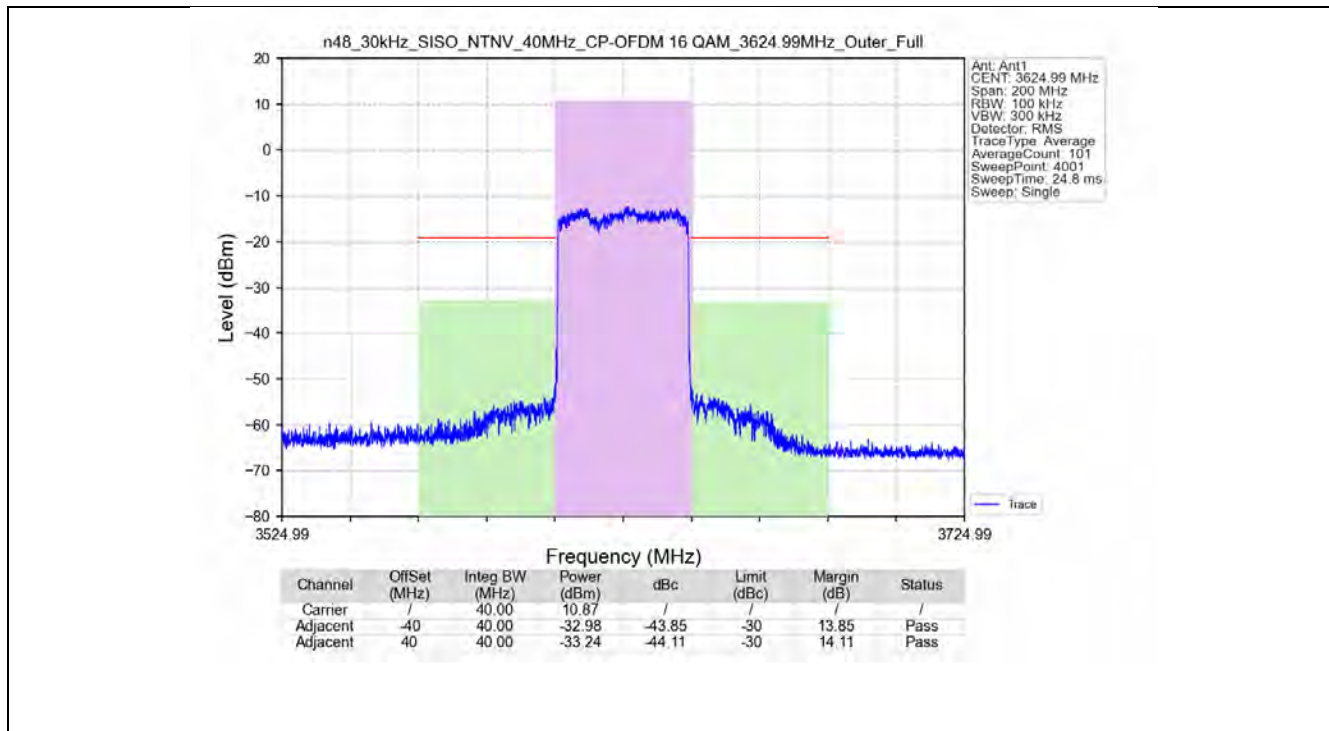
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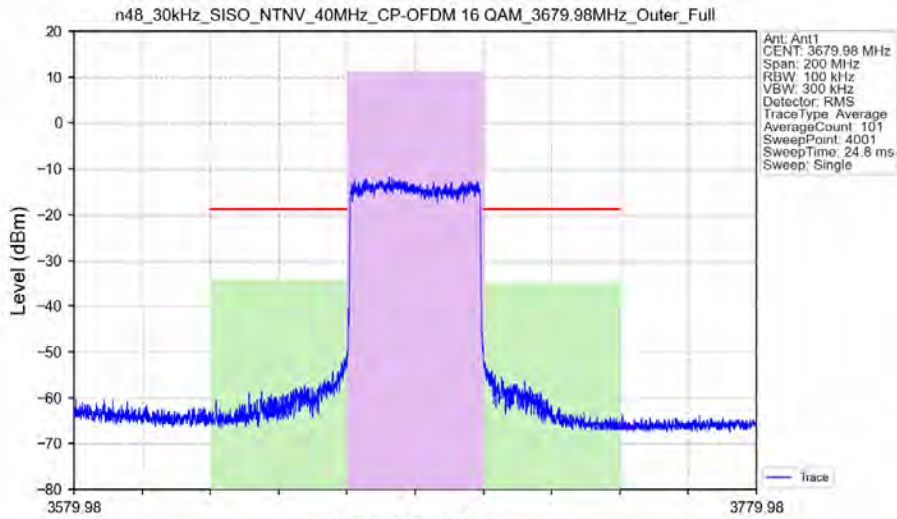
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_3570MHz_Outer_Full



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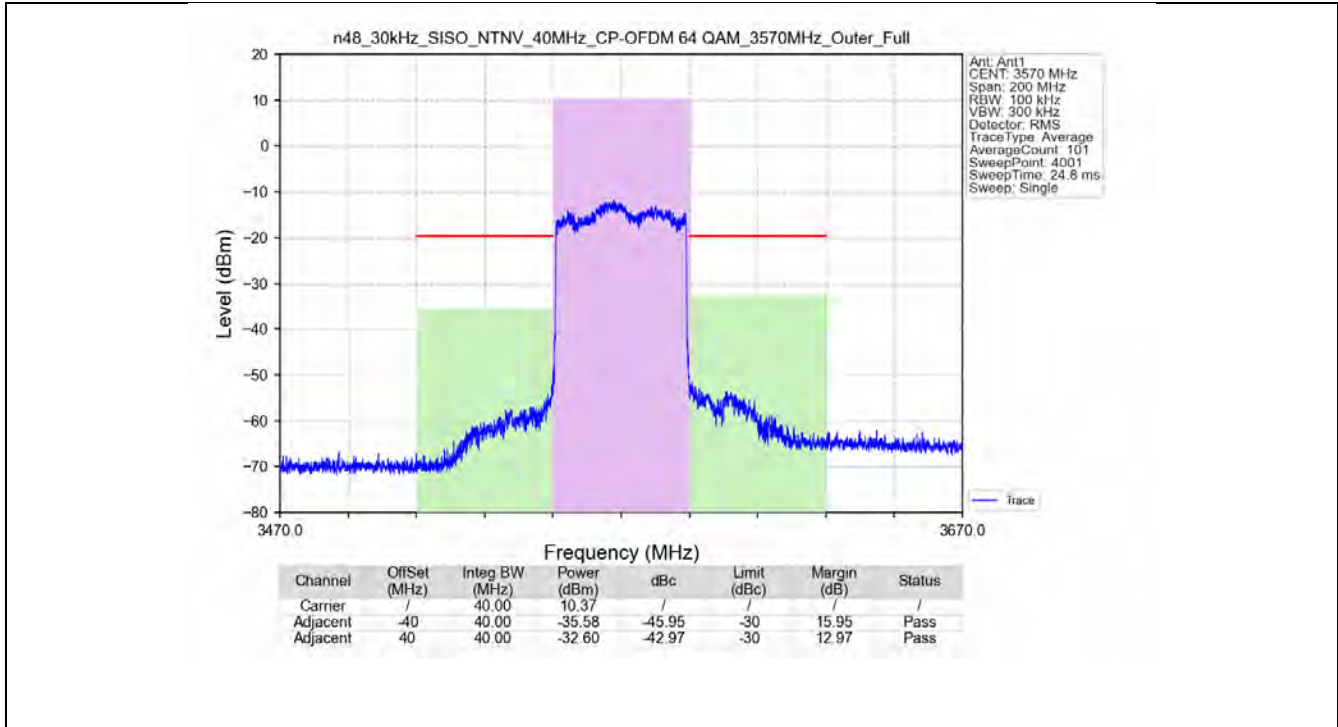


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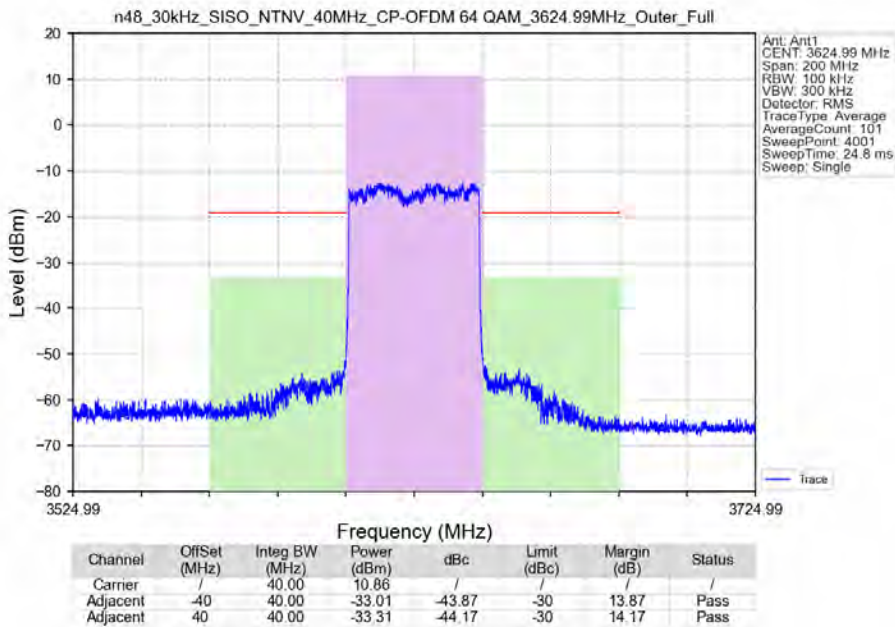
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_3679.98MHz_Outer_Full



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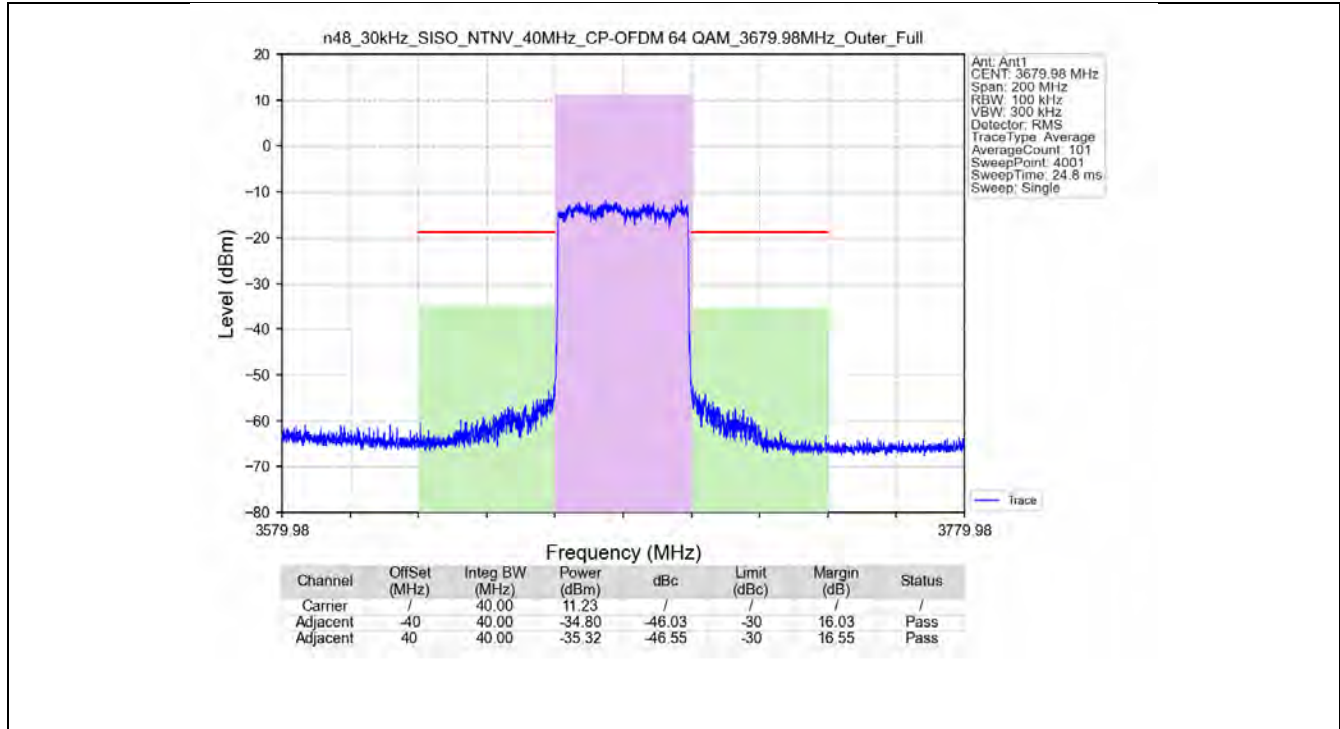


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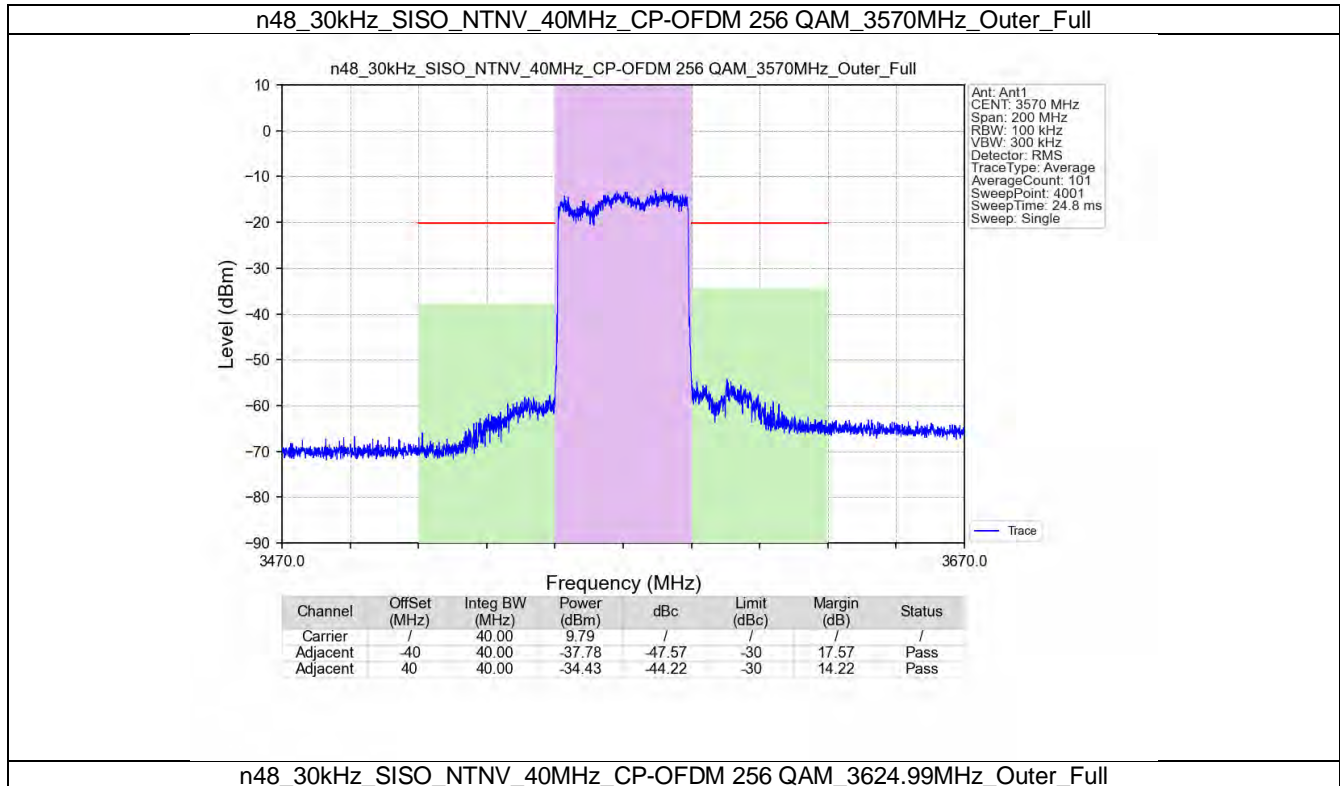


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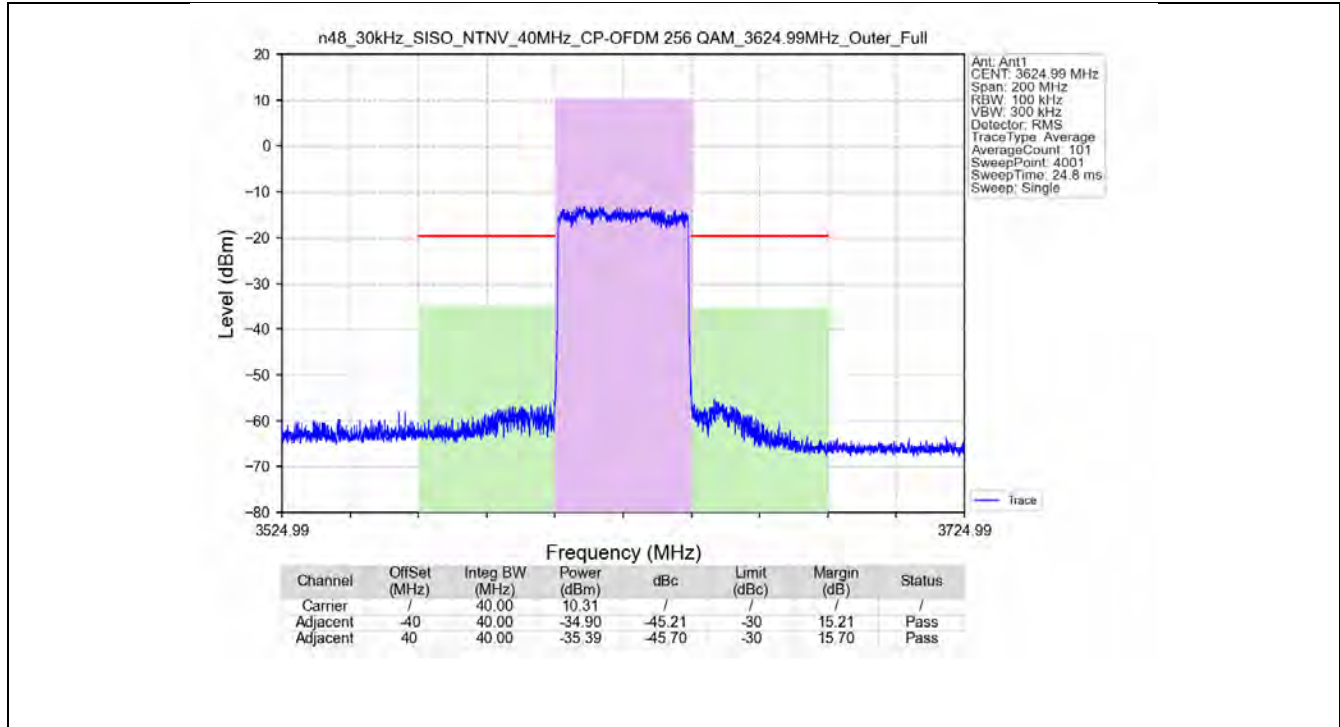


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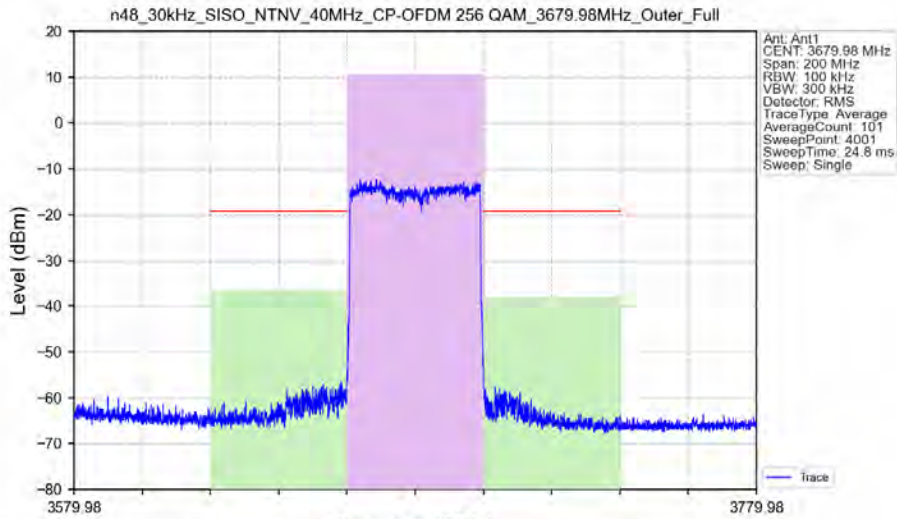
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| Channel | OffSet (MHz) | Integ BW (MHz) | Power (dBm) | dBc | Limit (dBc) | Margin (dB) | Status |
|----------|--------------|----------------|-------------|--------|-------------|-------------|--------|
| Carrier | / | 40.00 | 10.66 | / | / | / | / |
| Adjacent | -40 | 40.00 | -36.52 | -47.18 | -30 | 17.18 | Pass |
| Adjacent | 40 | 40.00 | -37.96 | -48.62 | -30 | 18.62 | Pass |



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6.4 30k_MIMO_10MHz_NTNV

6.4.1 Test Result

| 5G NR n48 SCS=30kHz MIMO 10MHz NTNv | | | | | |
|-------------------------------------|-----------------|---------------|--------------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Adjacent Channel Leakage Ratio | | Verdict |
| | | | Result | Limit | |
| CP-OFDM QPSK | 3555 | Outer_Full | Refer To Test Graph | | Pass |
| | 3624.99 | Outer_Full | Refer To Test Graph | | Pass |
| | 3694.98 | Outer_Full | Refer To Test Graph | | Pass |
| CP-OFDM 16 QAM | 3555 | Outer_Full | Refer To Test Graph | | Pass |
| | 3624.99 | Outer_Full | Refer To Test Graph | | Pass |
| | 3694.98 | Outer_Full | Refer To Test Graph | | Pass |
| CP-OFDM 64 QAM | 3555 | Outer_Full | Refer To Test Graph | | Pass |
| | 3624.99 | Outer_Full | Refer To Test Graph | | Pass |
| | 3694.98 | Outer_Full | Refer To Test Graph | | Pass |
| CP-OFDM 256 QAM | 3555 | Outer_Full | Refer To Test Graph | | Pass |
| | 3624.99 | Outer_Full | Refer To Test Graph | | Pass |
| | 3694.98 | Outer_Full | Refer To Test Graph | | Pass |



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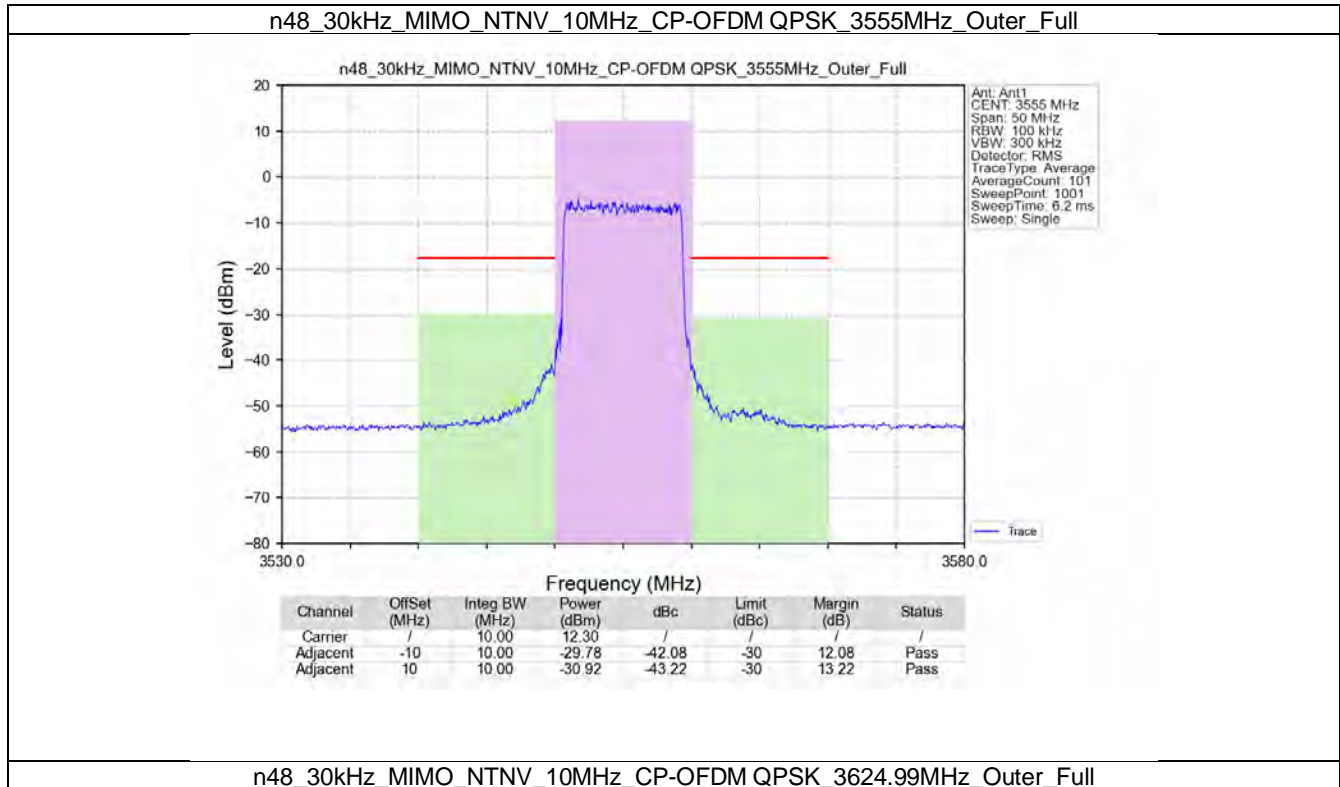
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6.4.2 Test Graph



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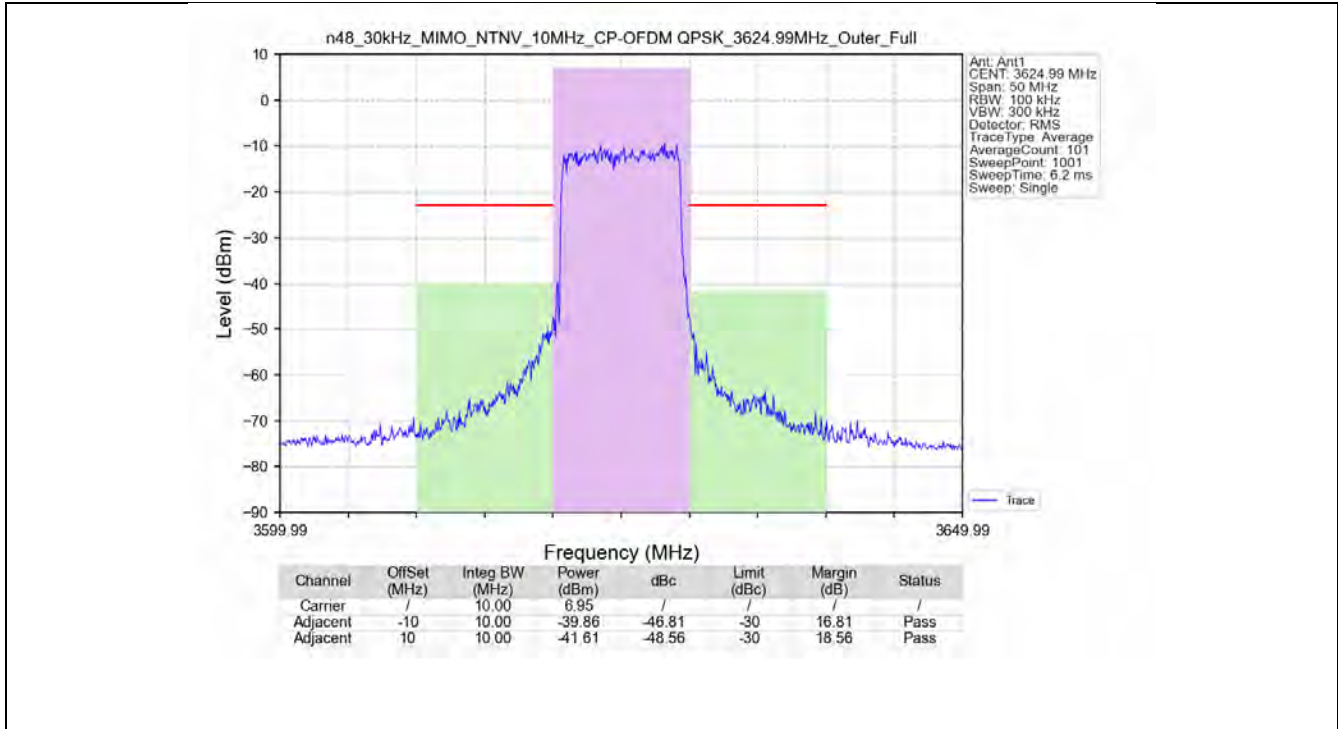


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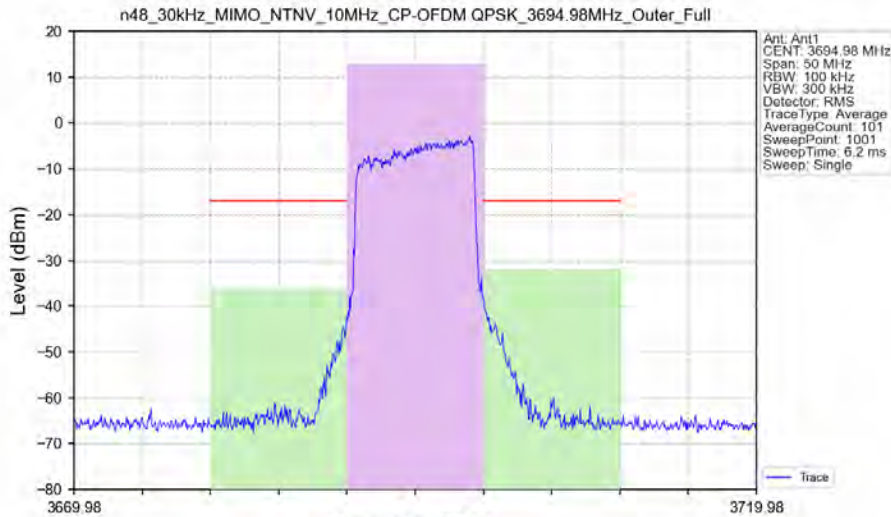
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Outer_Full



| Channel | OffSet (MHz) | Integ BW (MHz) | Power (dBm) | dBc | Limit (dBc) | Margin (dB) | Status |
|----------|--------------|----------------|-------------|--------|-------------|-------------|--------|
| Carrier | / | 10.00 | 12.96 | / | / | / | / |
| Adjacent | -10 | 10.00 | -36.07 | -49.03 | -30 | 19.03 | Pass |
| Adjacent | 10 | 10.00 | -31.94 | -44.90 | -30 | 14.90 | Pass |

n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 16 QAM_3555MHz_Outer_Full



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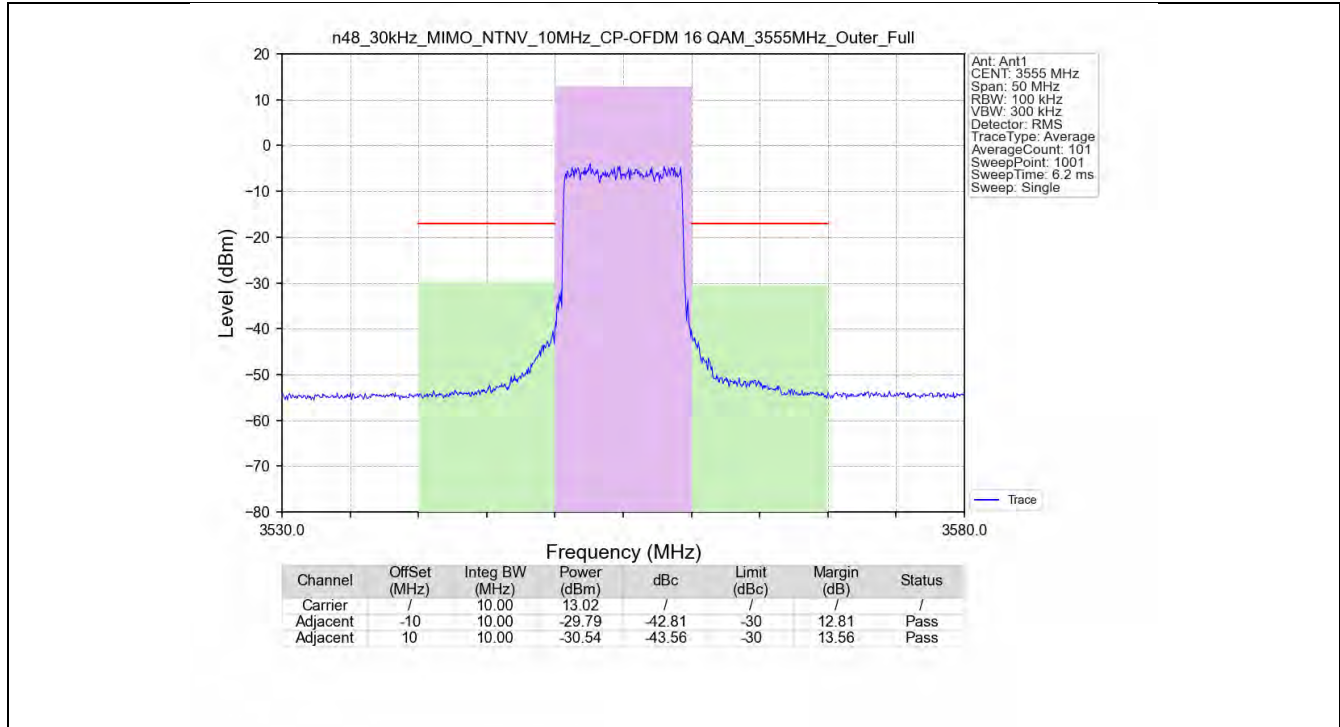


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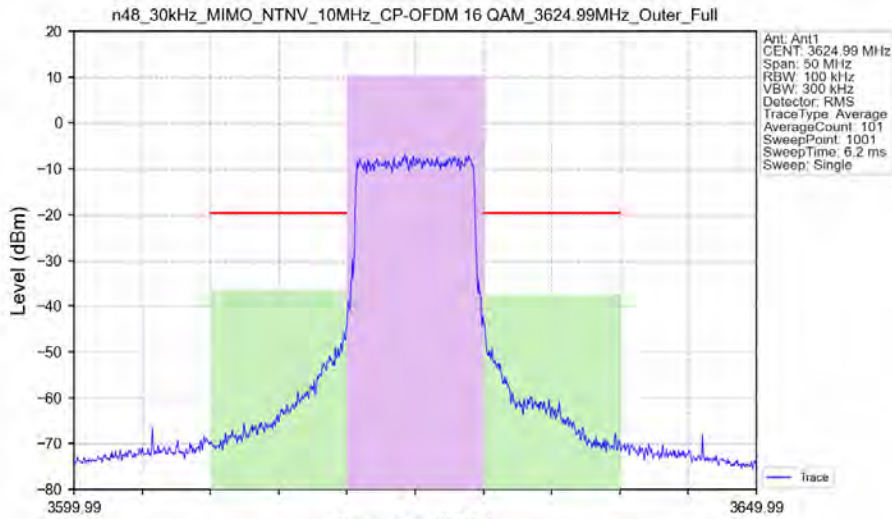
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 16 QAM_3624.99MHz_Outer_Full



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 16 QAM_3694.98MHz_Outer_Full



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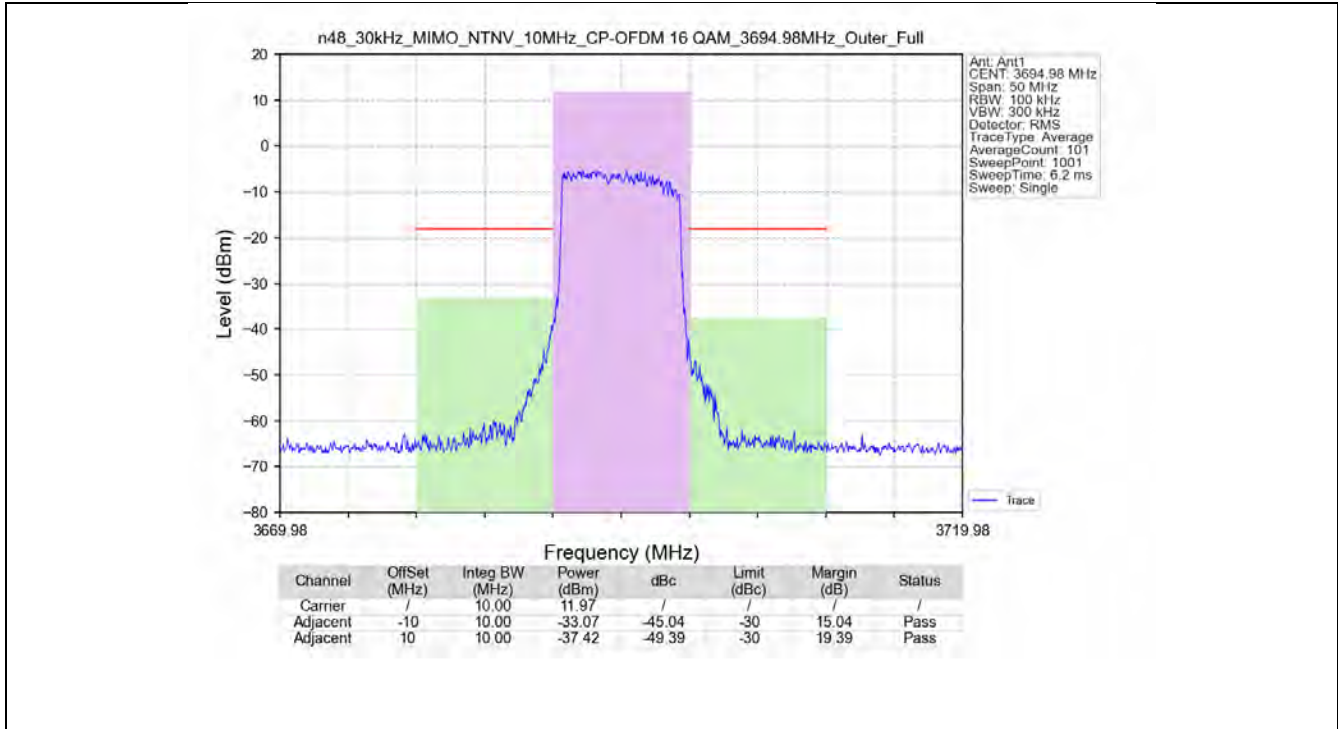


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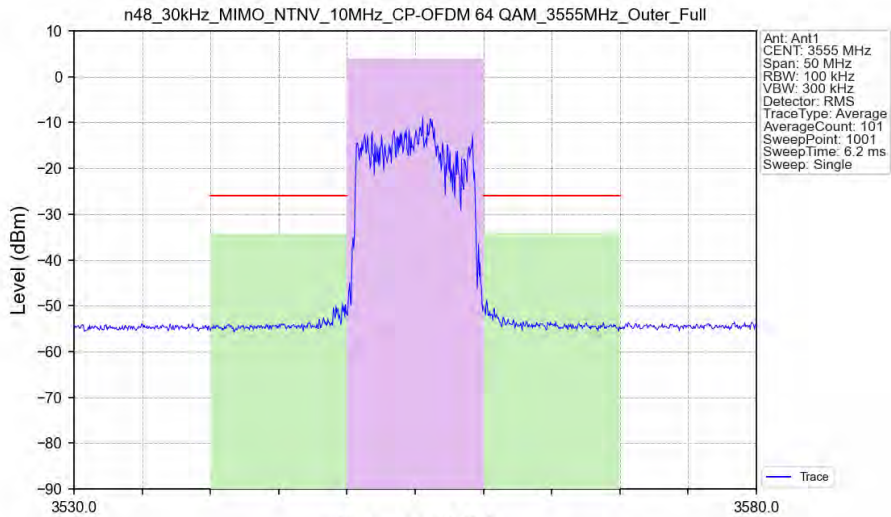
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 64 QAM_3555MHz_Outer_Full



| Channel | OffSet (MHz) | Integ BW (MHz) | Power (dBm) | dBc | Limit (dBc) | Margin (dB) | Status |
|----------|--------------|----------------|-------------|--------|-------------|-------------|--------|
| Carrier | / | 10.00 | 4.09 | / | / | / | / |
| Adjacent | -10 | 10.00 | -34.33 | -38.42 | -30 | 8.42 | Pass |
| Adjacent | 10 | 10.00 | -34.16 | -38.25 | -30 | 8.25 | Pass |

n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 64 QAM_3624.99MHz_Outer_Full



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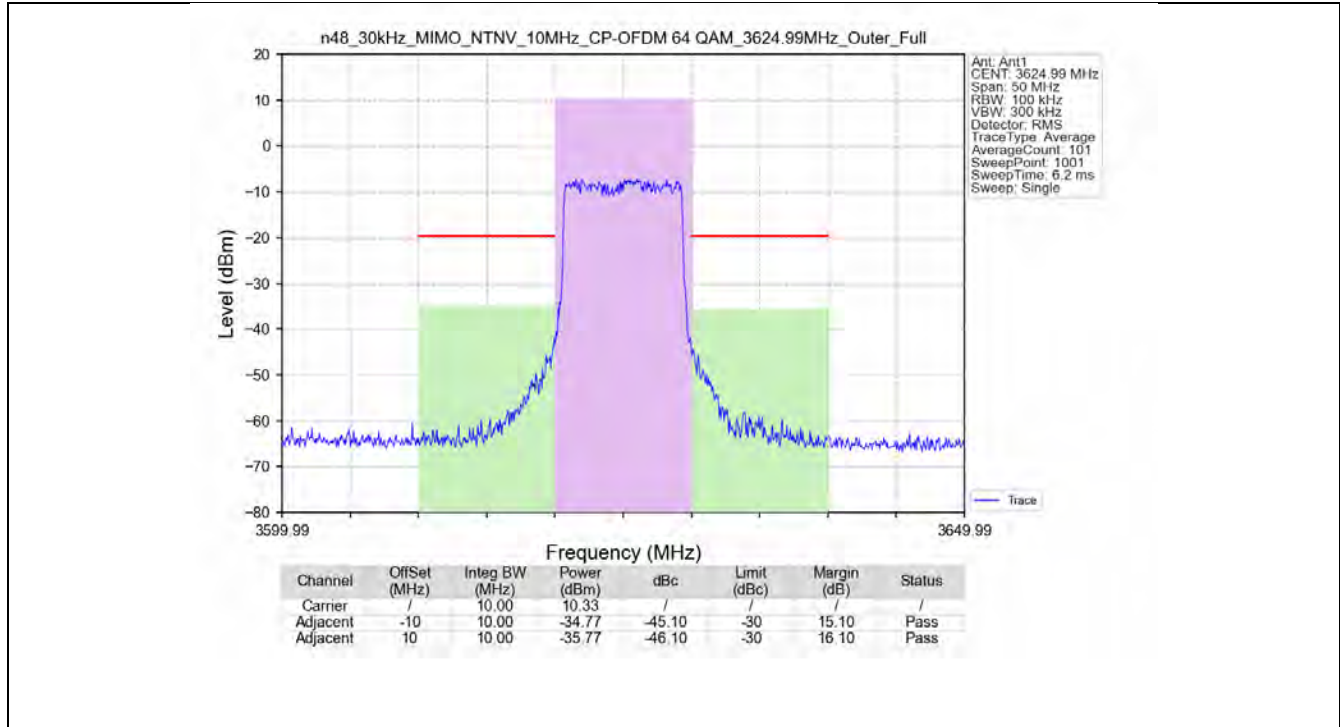


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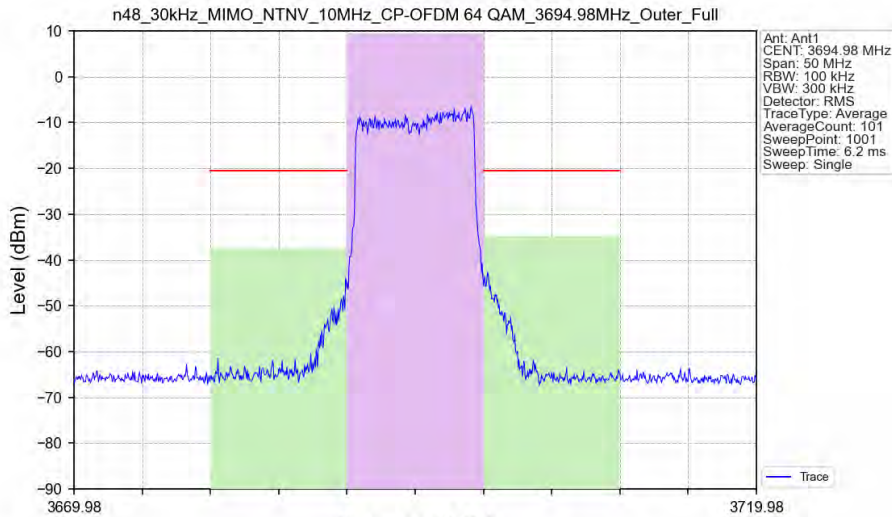
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 64 QAM_3694.98MHz_Outer_Full



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 256 QAM_3555MHz_Outer_Full



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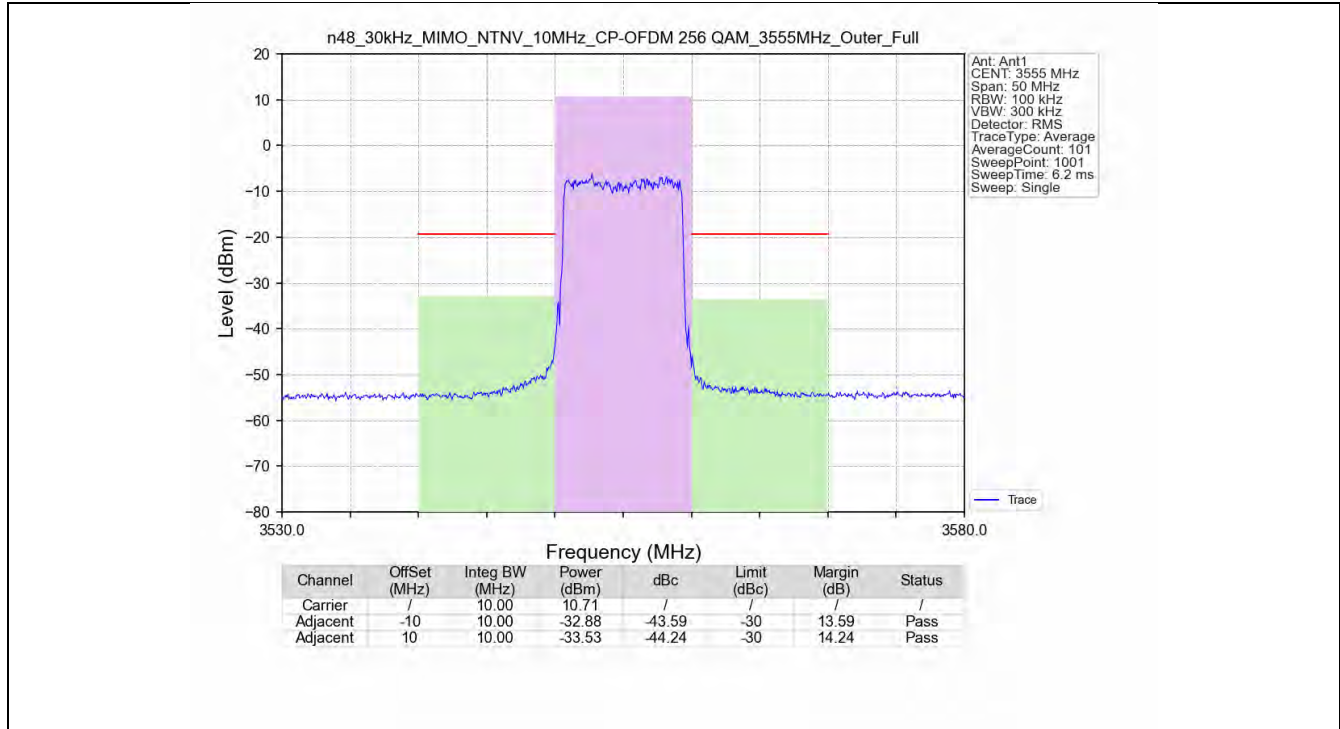


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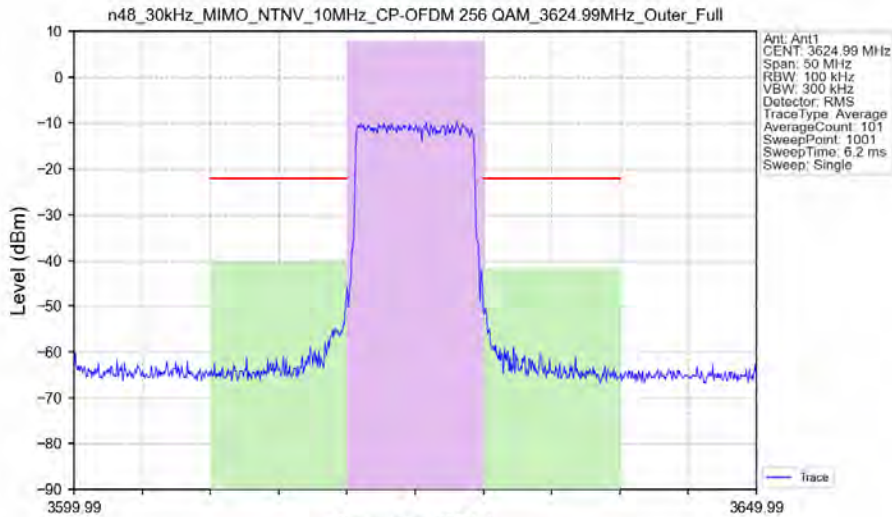
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 256 QAM_3694.98MHz_Outer_Full



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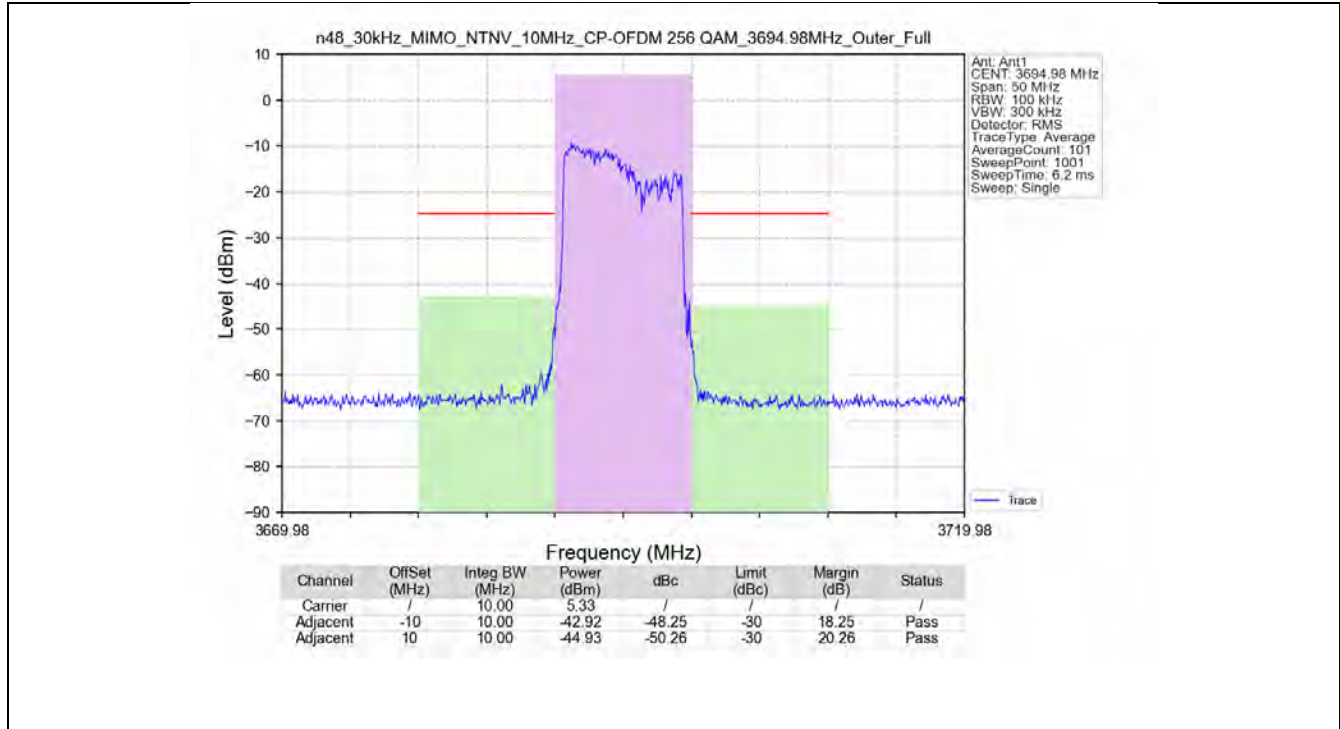


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6.5 30k_MIMO_20MHz_NTNV

6.5.1 Test Result

| 5G NR n48 SCS=30kHz MIMO 20MHz NTN | | | | | |
|------------------------------------|-----------------|---------------|--------------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Adjacent Channel Leakage Ratio | | Verdict |
| | | | Result | Limit | |
| CP-OFDM QPSK | 3560.01 | Outer_Full | Refer To Test Graph | | Pass |
| | 3624.99 | Outer_Full | Refer To Test Graph | | Pass |
| | 3690 | Outer_Full | Refer To Test Graph | | Pass |
| CP-OFDM 16 QAM | 3560.01 | Outer_Full | Refer To Test Graph | | Pass |
| | 3624.99 | Outer_Full | Refer To Test Graph | | Pass |
| | 3690 | Outer_Full | Refer To Test Graph | | Pass |
| CP-OFDM 64 QAM | 3560.01 | Outer_Full | Refer To Test Graph | | Pass |
| | 3624.99 | Outer_Full | Refer To Test Graph | | Pass |
| | 3690 | Outer_Full | Refer To Test Graph | | Pass |
| CP-OFDM 256 QAM | 3560.01 | Outer_Full | Refer To Test Graph | | Pass |
| | 3624.99 | Outer_Full | Refer To Test Graph | | Pass |
| | 3690 | Outer_Full | Refer To Test Graph | | Pass |



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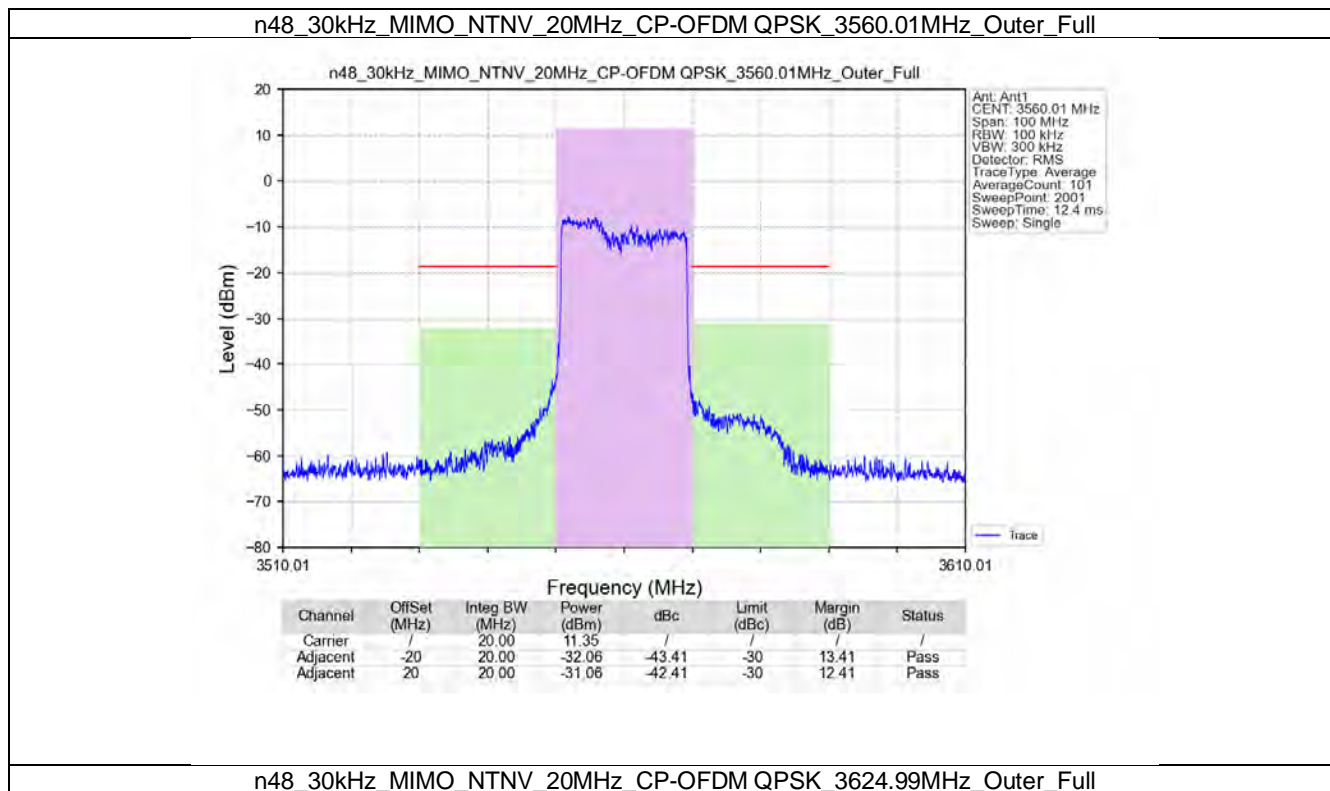
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6.5.2 Test Graph



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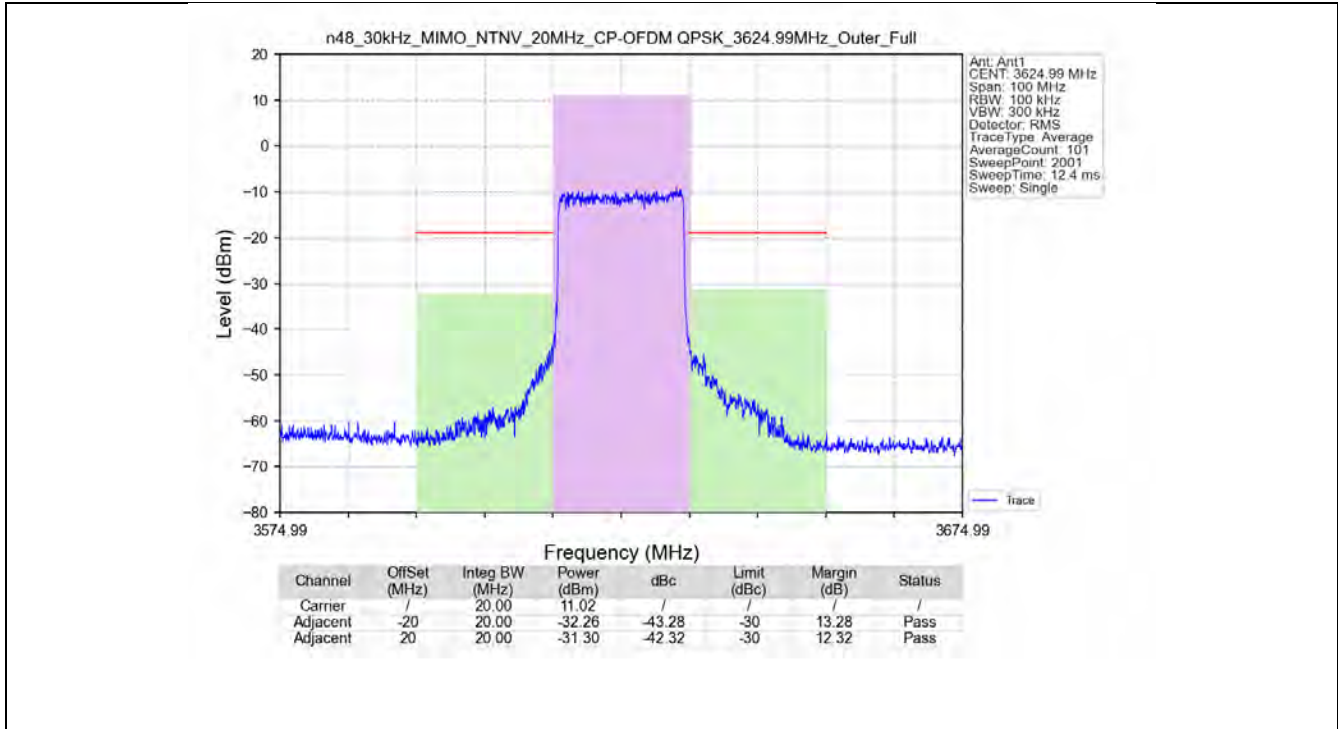


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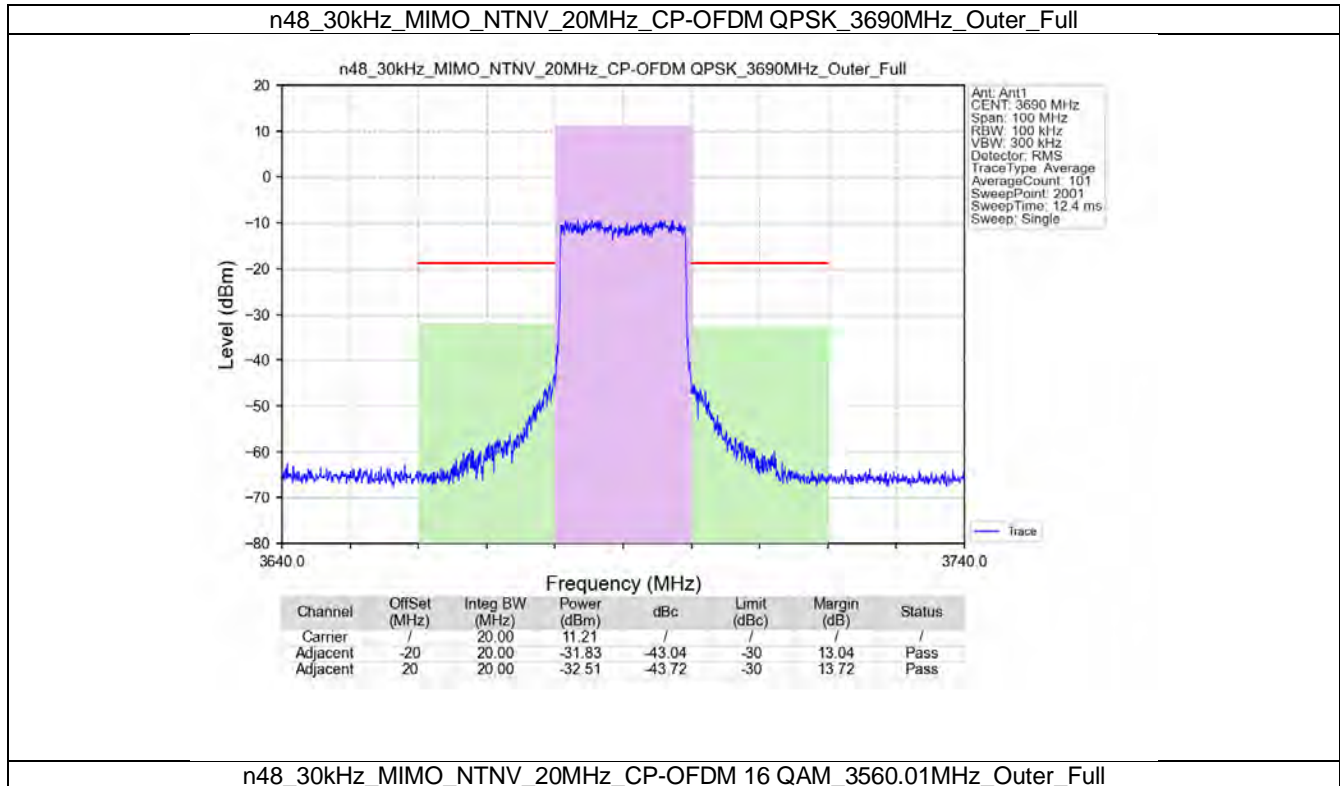


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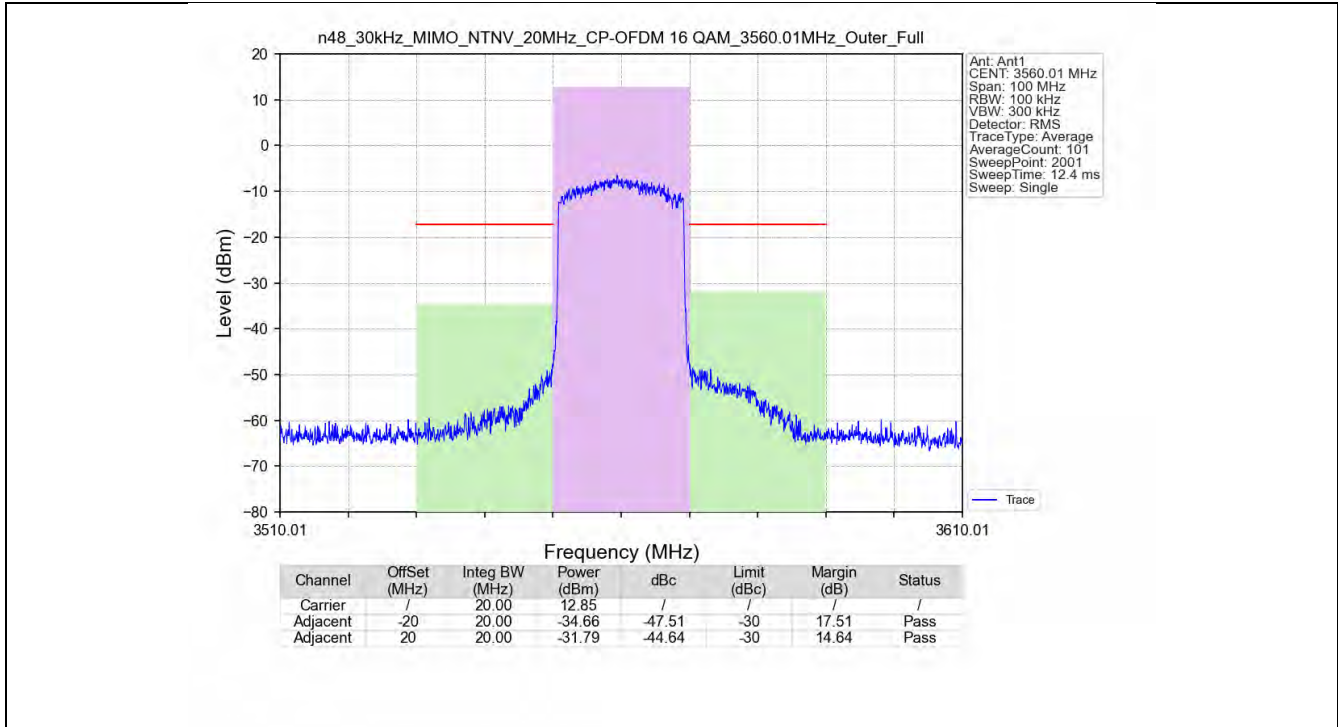


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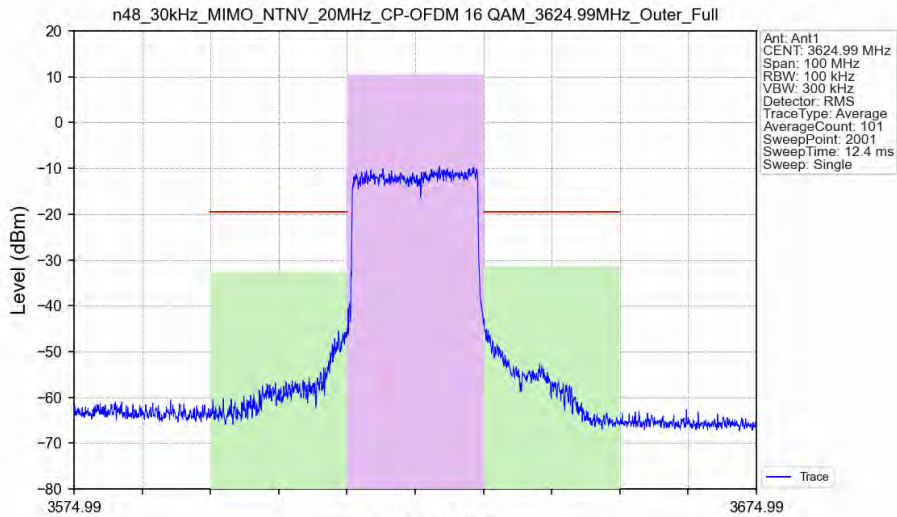
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM 16 QAM_3624.99MHz_Outer_Full



| Channel | OffSet (MHz) | Integ BW (MHz) | Power (dBm) | dBc | Limit (dBc) | Margin (dB) | Status |
|----------|--------------|----------------|-------------|--------|-------------|-------------|--------|
| Carrier | / | 20.00 | 10.52 | / | / | / | / |
| Adjacent | -20 | 20.00 | -32.58 | -43.10 | -30 | 13.10 | Pass |
| Adjacent | 20 | 20.00 | -31.38 | -41.90 | -30 | 11.90 | Pass |

n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM 16 QAM_3690MHz_Outer_Full



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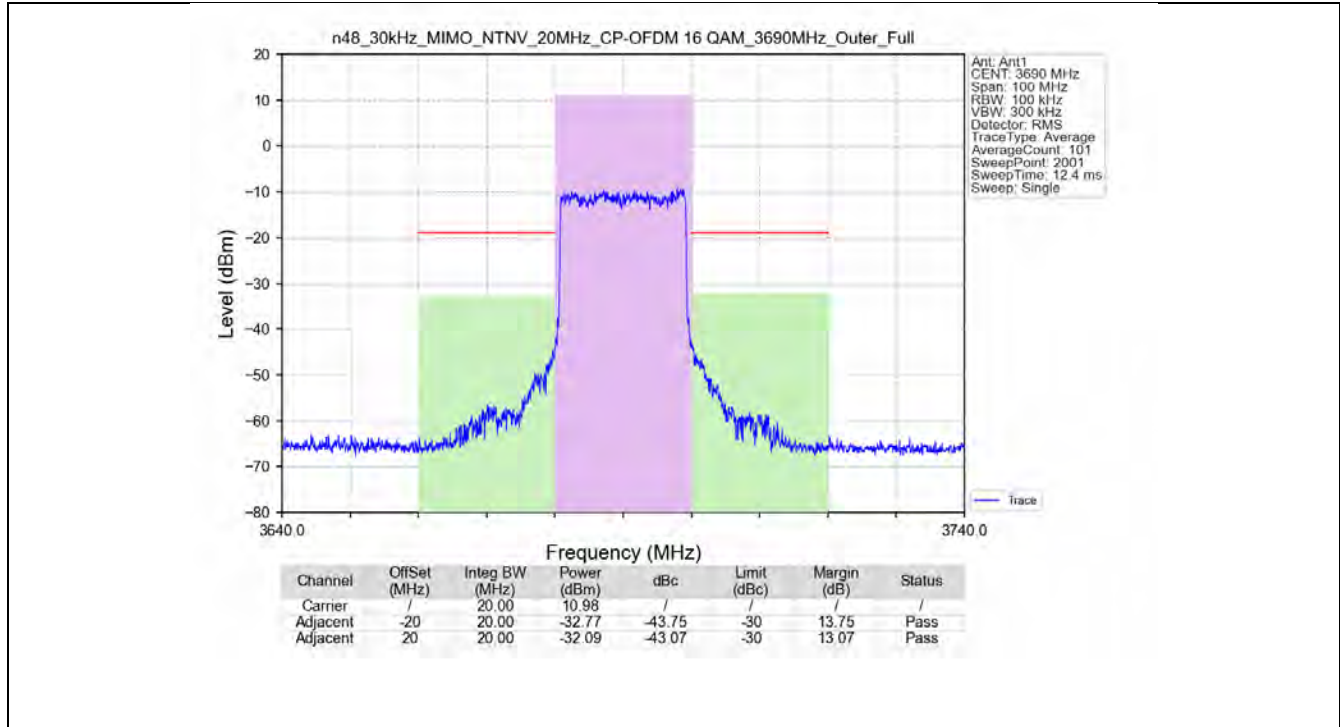


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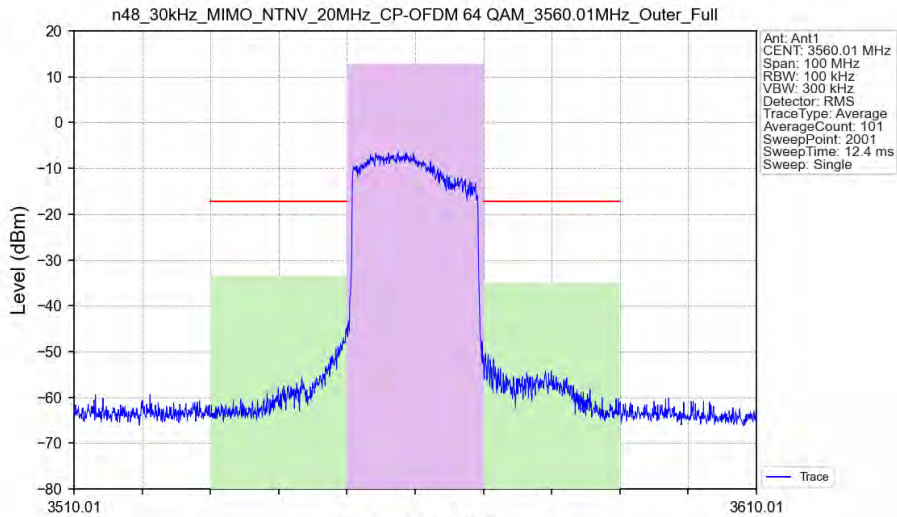
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM 64 QAM_3560.01MHz_Outer_Full



| Channel | OffSet (MHz) | Integ BW (MHz) | Power (dBm) | dBc | Limit (dBc) | Margin (dB) | Status |
|----------|--------------|----------------|-------------|--------|-------------|-------------|--------|
| Carrier | / | 20.00 | 12.70 | / | / | / | / |
| Adjacent | -20 | 20.00 | -33.46 | -46.16 | -30 | 16.16 | Pass |
| Adjacent | 20 | 20.00 | -34.95 | -47.65 | -30 | 17.65 | Pass |

n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM 64 QAM_3624.99MHz_Outer_Full



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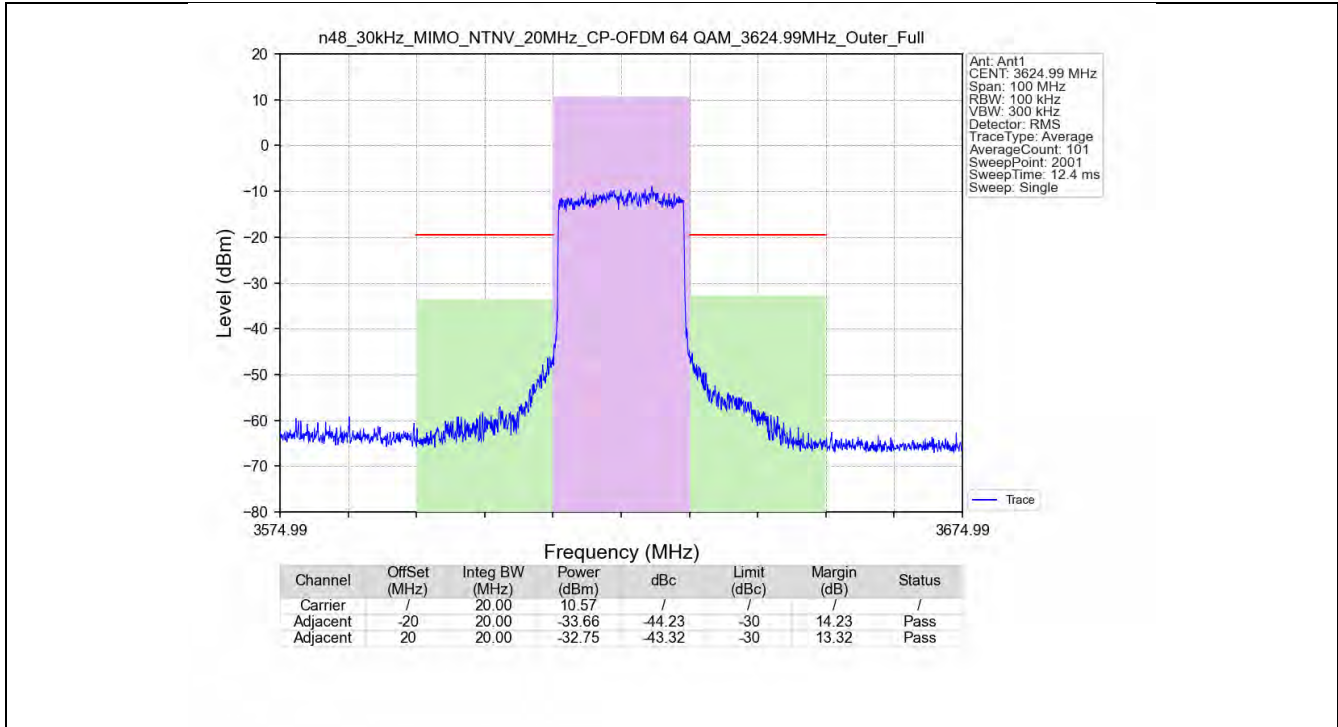


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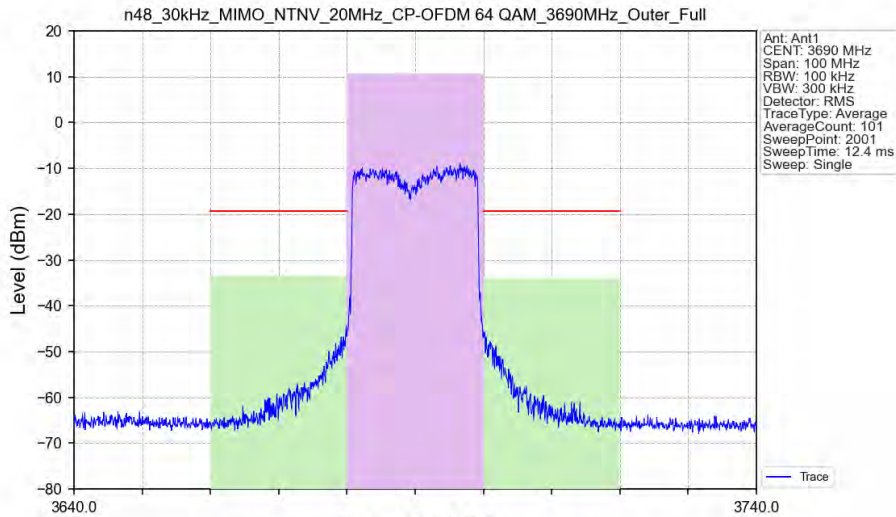
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM 64 QAM_3690MHz_Outer_Full



| Channel | OffSet (MHz) | Integ BW (MHz) | Power (dBm) | dBc | Limit (dBc) | Margin (dB) | Status |
|----------|--------------|----------------|-------------|--------|-------------|-------------|--------|
| Carrier | / | 20.00 | 10.67 | / | / | / | / |
| Adjacent | -20 | 20.00 | -33.43 | -44.10 | -30 | 14.10 | Pass |
| Adjacent | 20 | 20.00 | -34.03 | -44.70 | -30 | 14.70 | Pass |

n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM 256 QAM_3560.01MHz_Outer_Full



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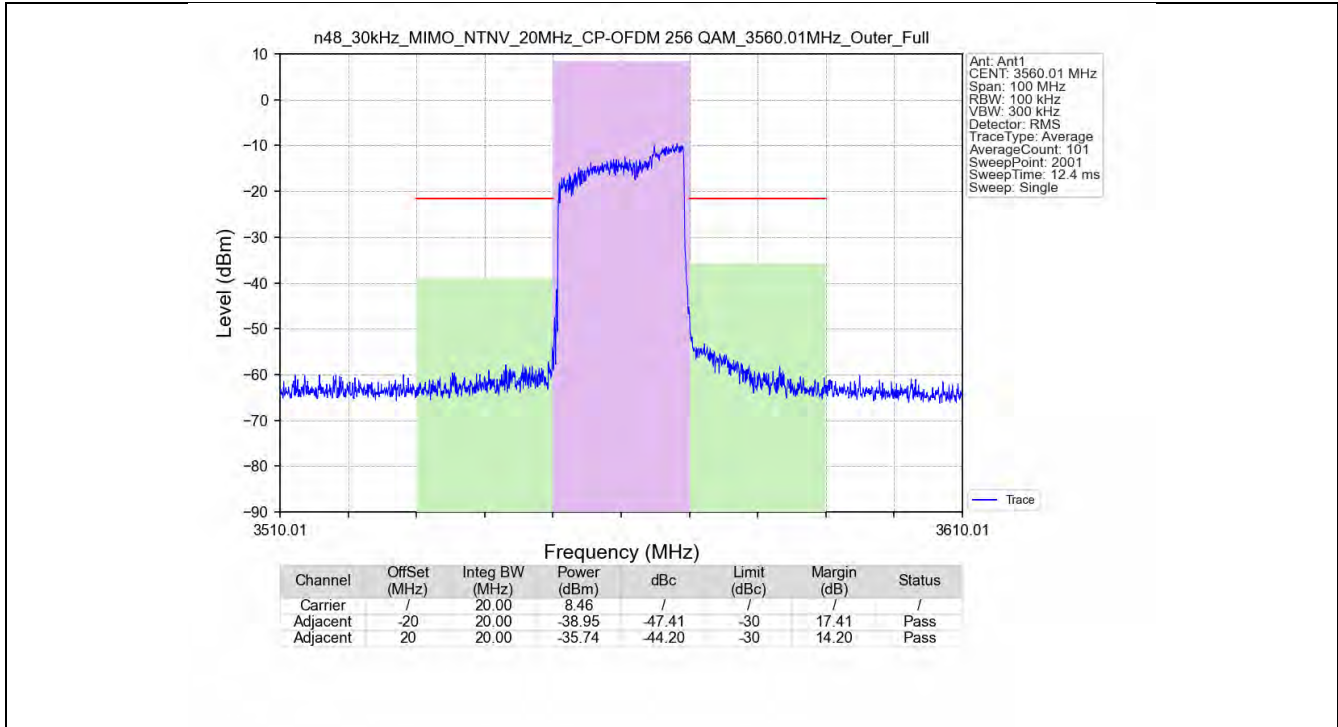


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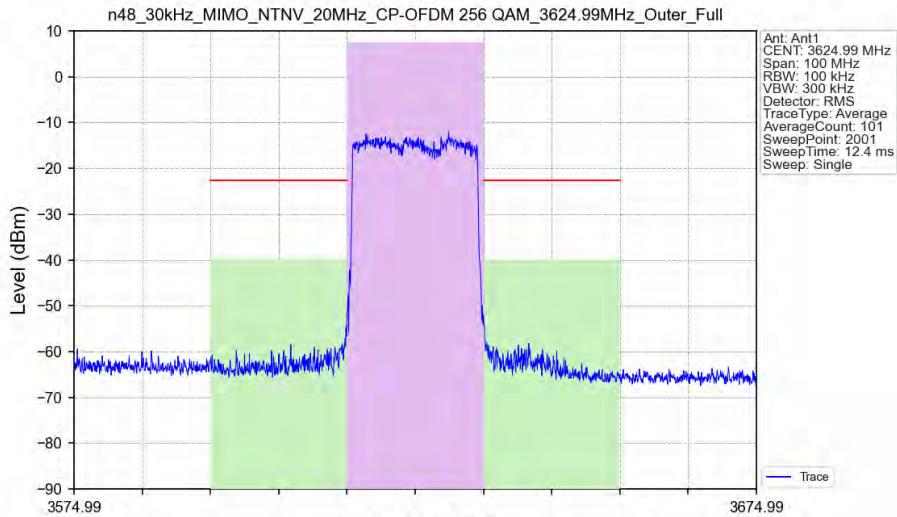
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| Channel | OffSet (MHz) | Integ BW (MHz) | Power (dBm) | dBc | Limit (dBc) | Margin (dB) | Status |
|----------|--------------|----------------|-------------|--------|-------------|-------------|--------|
| Carrier | / | 20.00 | 7.45 | / | / | / | / |
| Adjacent | -20 | 20.00 | -39.72 | -47.17 | -30 | 17.17 | Pass |
| Adjacent | 20 | 20.00 | -39.96 | -47.41 | -30 | 17.41 | Pass |

n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM 256 QAM_3690MHz_Outer_Full



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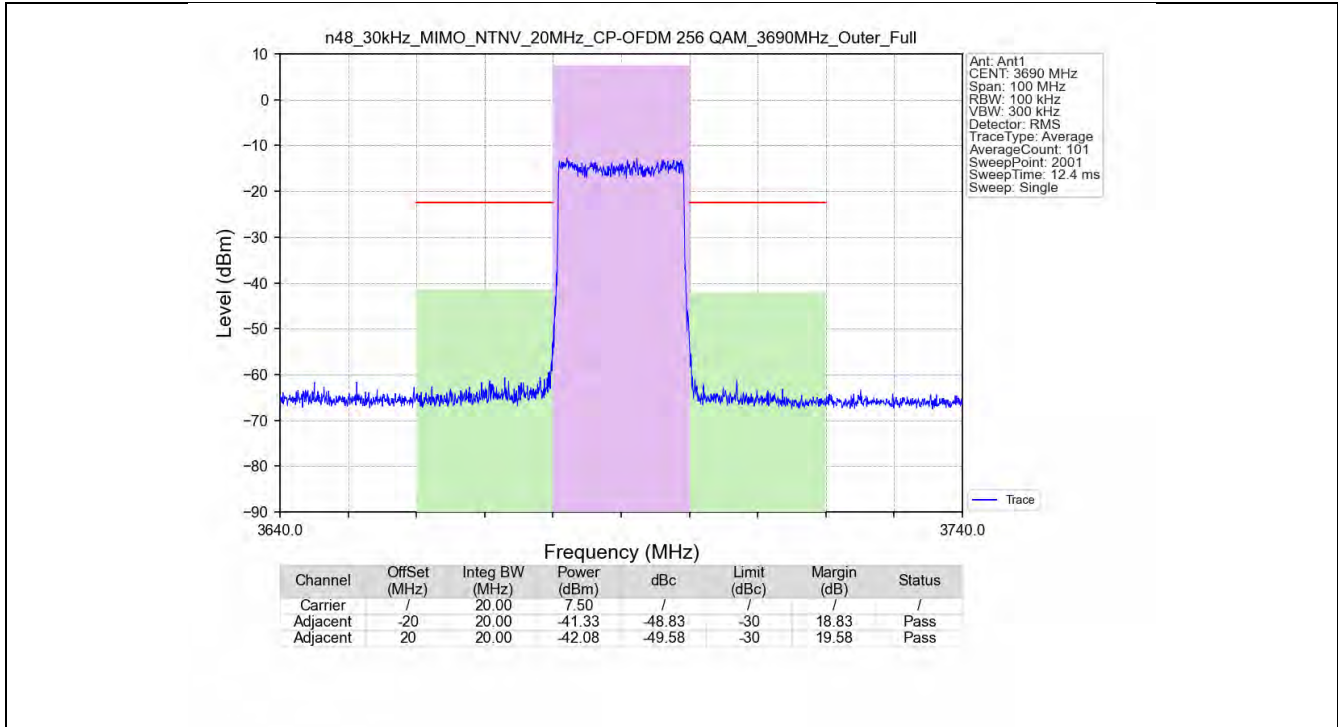


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6.6 30k_MIMO_40MHz_NTNV

6.6.1 Test Result

| 5G NR n48 SCS=30kHz MIMO 40MHz NTNv | | | | | |
|-------------------------------------|-----------------|---------------|--------------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | Adjacent Channel Leakage Ratio | | Verdict |
| | | | Result | Limit | |
| CP-OFDM QPSK | 3570 | Outer_Full | Refer To Test Graph | | Pass |
| | 3624.99 | Outer_Full | Refer To Test Graph | | Pass |
| | 3679.98 | Outer_Full | Refer To Test Graph | | Pass |
| CP-OFDM 16 QAM | 3570 | Outer_Full | Refer To Test Graph | | Pass |
| | 3624.99 | Outer_Full | Refer To Test Graph | | Pass |
| | 3679.98 | Outer_Full | Refer To Test Graph | | Pass |
| CP-OFDM 64 QAM | 3570 | Outer_Full | Refer To Test Graph | | Pass |
| | 3624.99 | Outer_Full | Refer To Test Graph | | Pass |
| | 3679.98 | Outer_Full | Refer To Test Graph | | Pass |
| CP-OFDM 256 QAM | 3570 | Outer_Full | Refer To Test Graph | | Pass |
| | 3624.99 | Outer_Full | Refer To Test Graph | | Pass |
| | 3679.98 | Outer_Full | Refer To Test Graph | | Pass |



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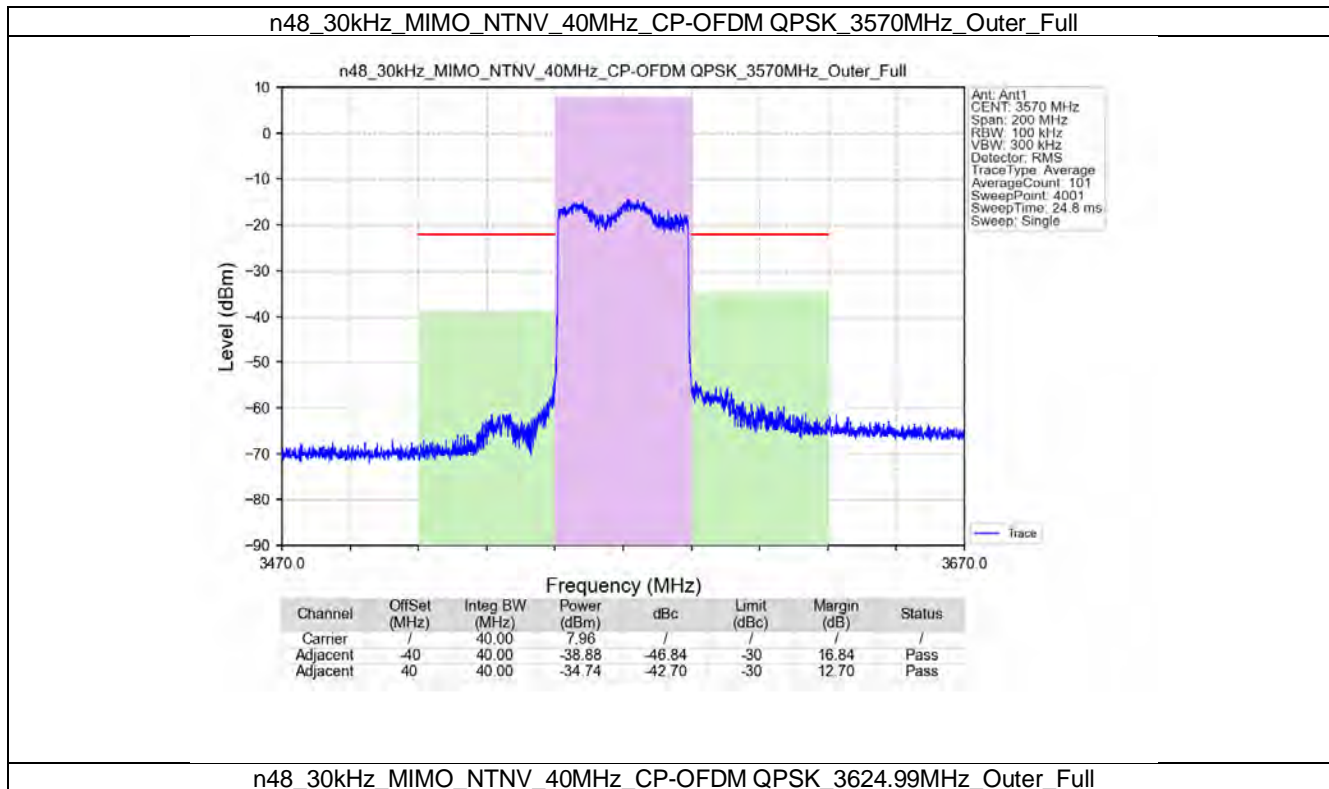
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6.6.2 Test Graph



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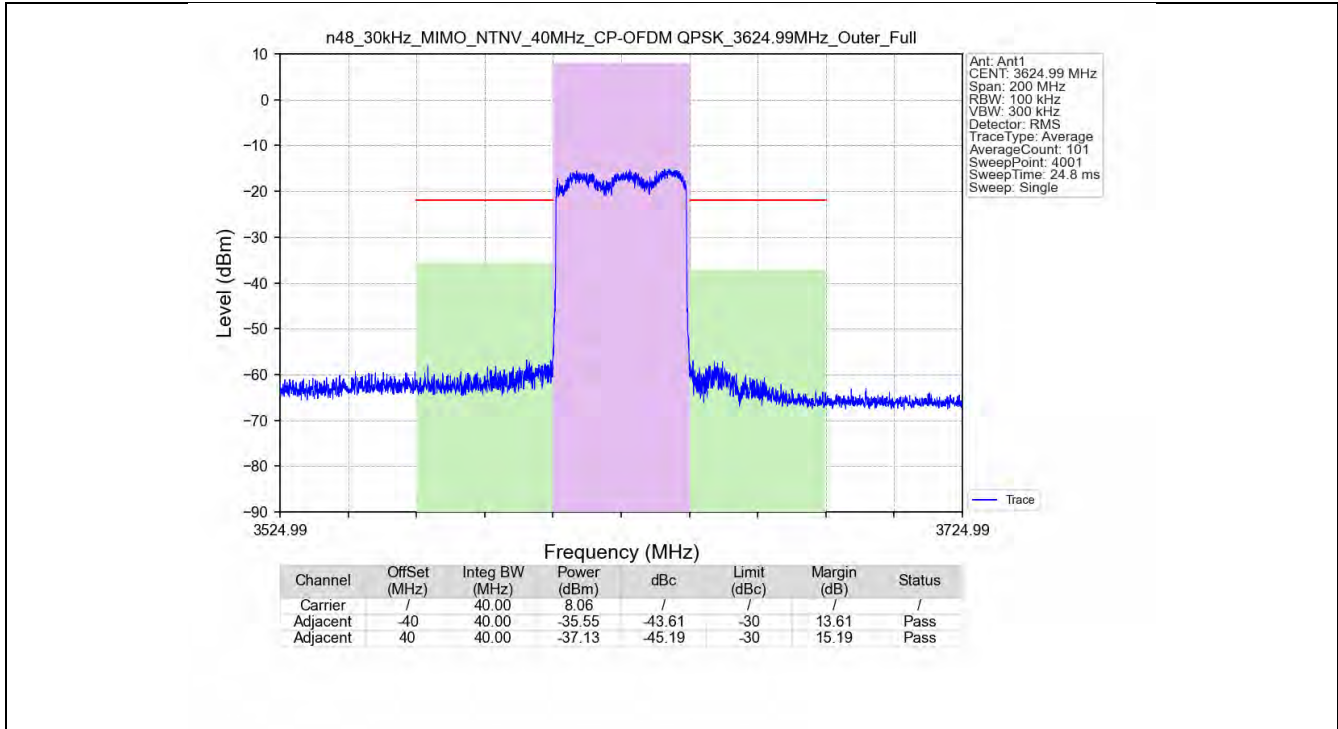


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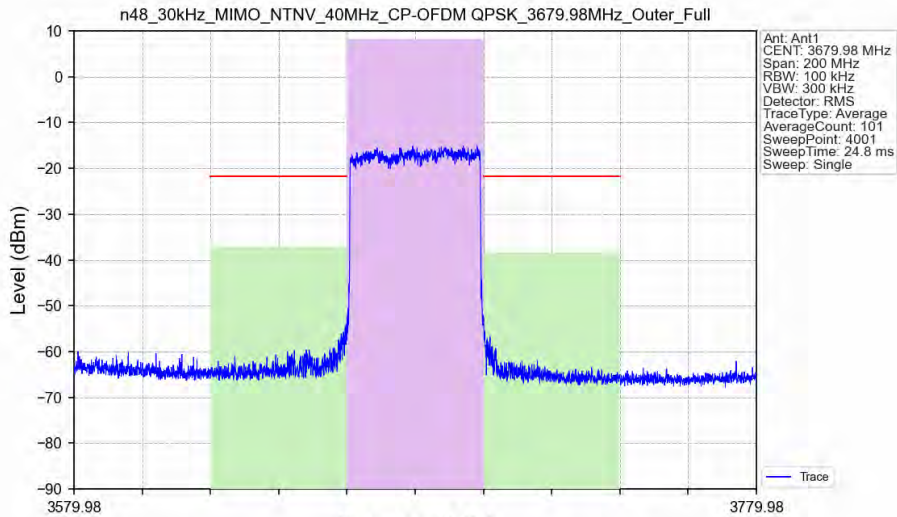
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Outer_Full



| Channel | OffSet (MHz) | Integ BW (MHz) | Power (dBm) | dBc | Limit (dBc) | Margin (dB) | Status |
|----------|--------------|----------------|-------------|--------|-------------|-------------|--------|
| Carrier | / | 40.00 | 8.28 | / | / | / | / |
| Adjacent | -40 | 40.00 | -37.08 | -45.36 | -30 | 15.36 | Pass |
| Adjacent | 40 | 40.00 | -38.41 | -46.69 | -30 | 16.69 | Pass |

n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM 16 QAM_3570MHz_Outer_Full



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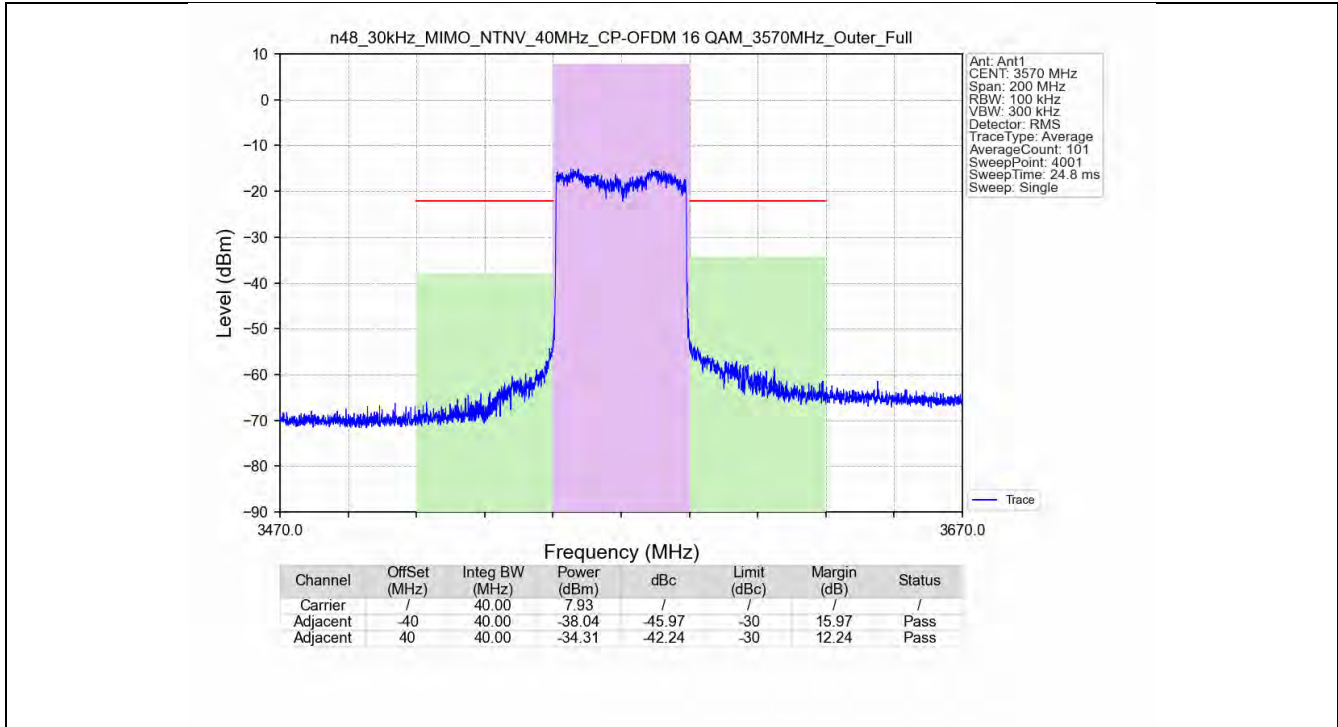


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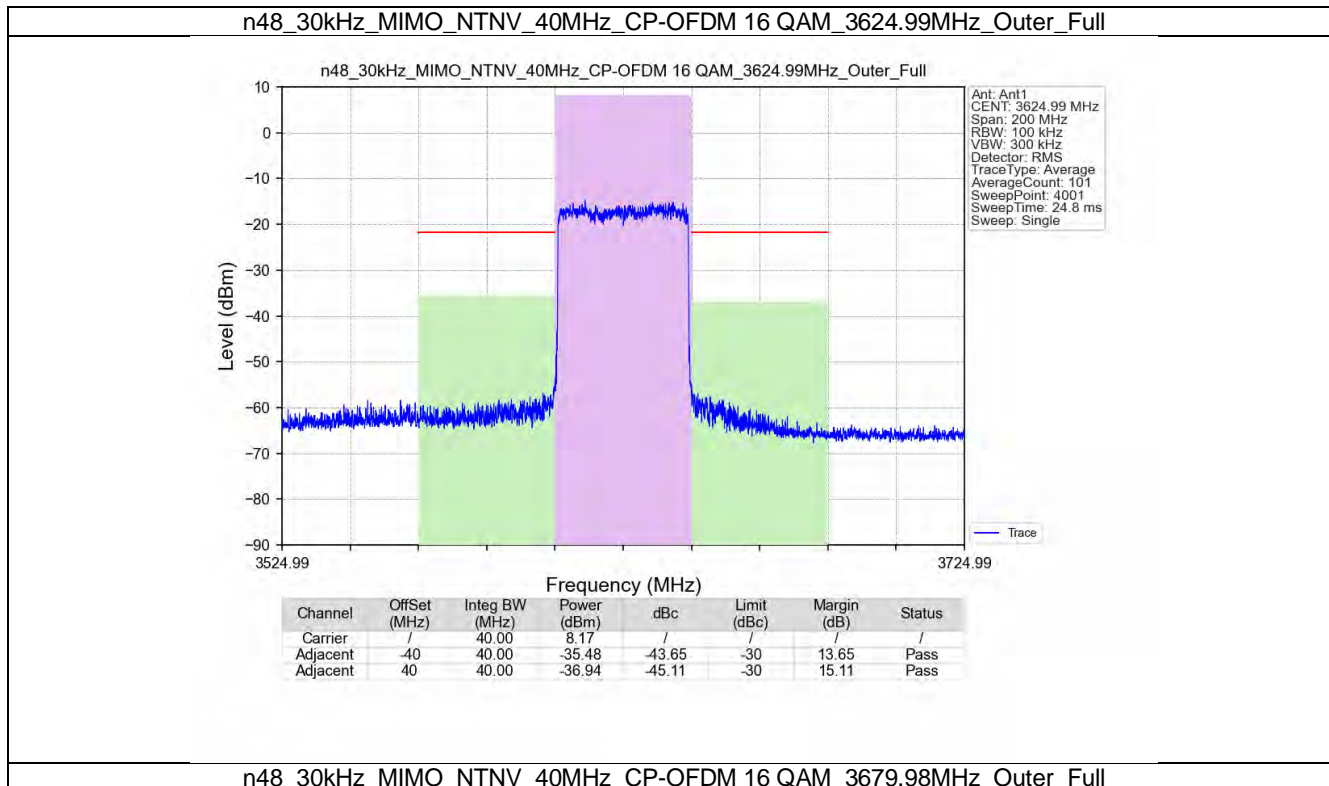
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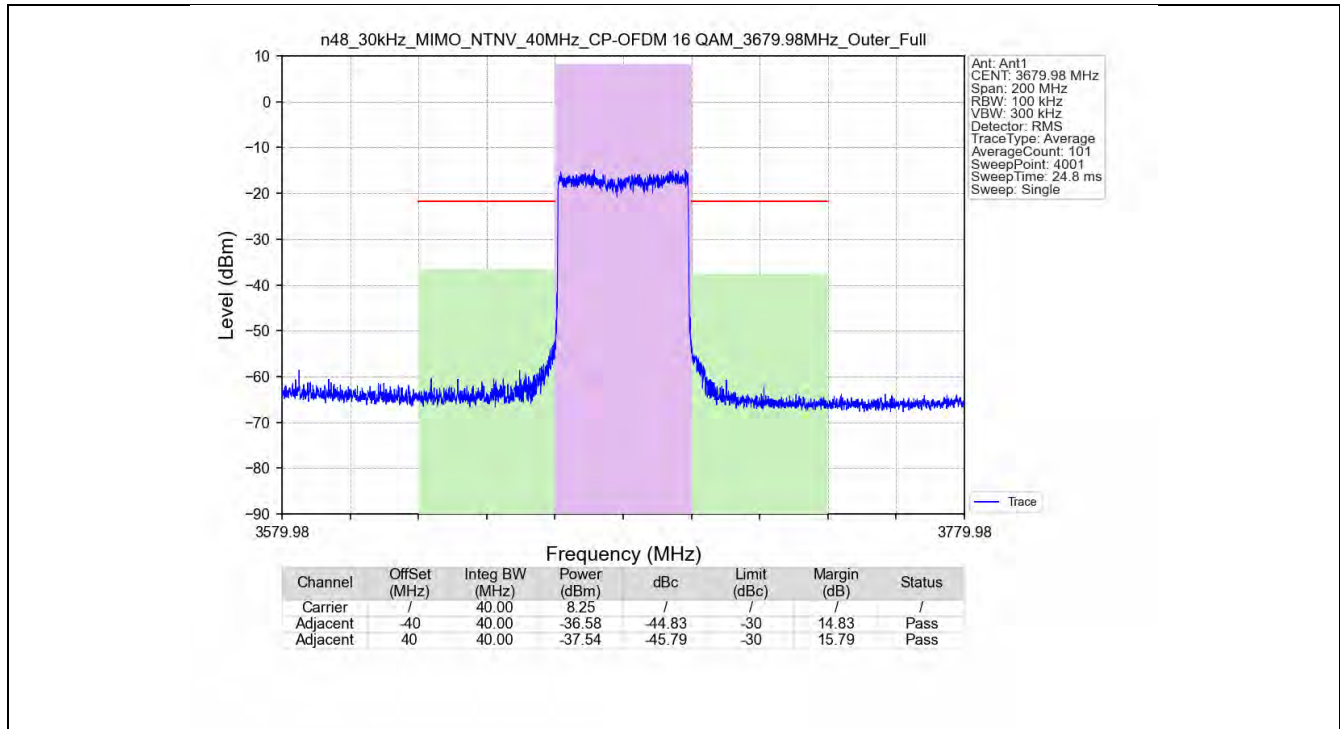


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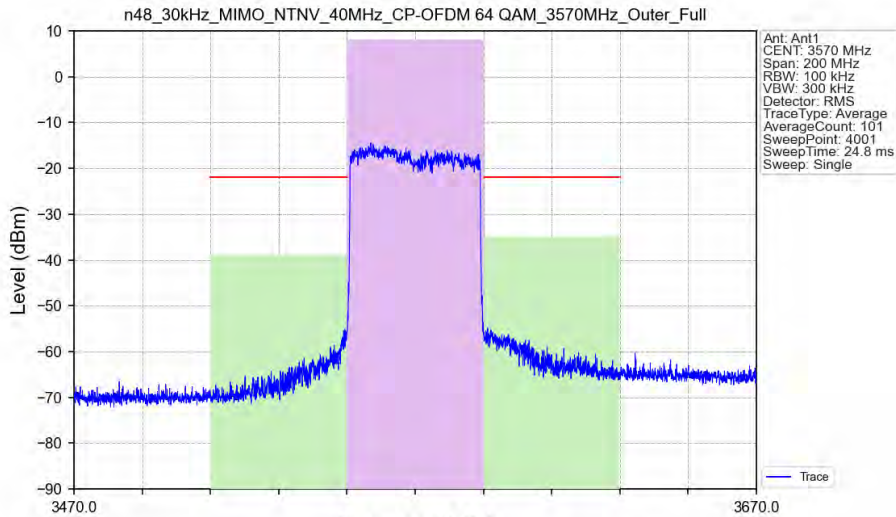
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM 64 QAM_3570MHz_Outer_Full



| Channel | OffSet (MHz) | Integ BW (MHz) | Power (dBm) | dBc | Limit (dBc) | Margin (dB) | Status |
|----------|--------------|----------------|-------------|--------|-------------|-------------|--------|
| Carrier | / | 40.00 | 8.00 | / | / | / | / |
| Adjacent | -40 | 40.00 | -38.81 | -46.81 | -30 | 16.81 | Pass |
| Adjacent | 40 | 40.00 | -35.01 | -43.01 | -30 | 13.01 | Pass |

n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM 64 QAM_3624.99MHz_Outer_Full



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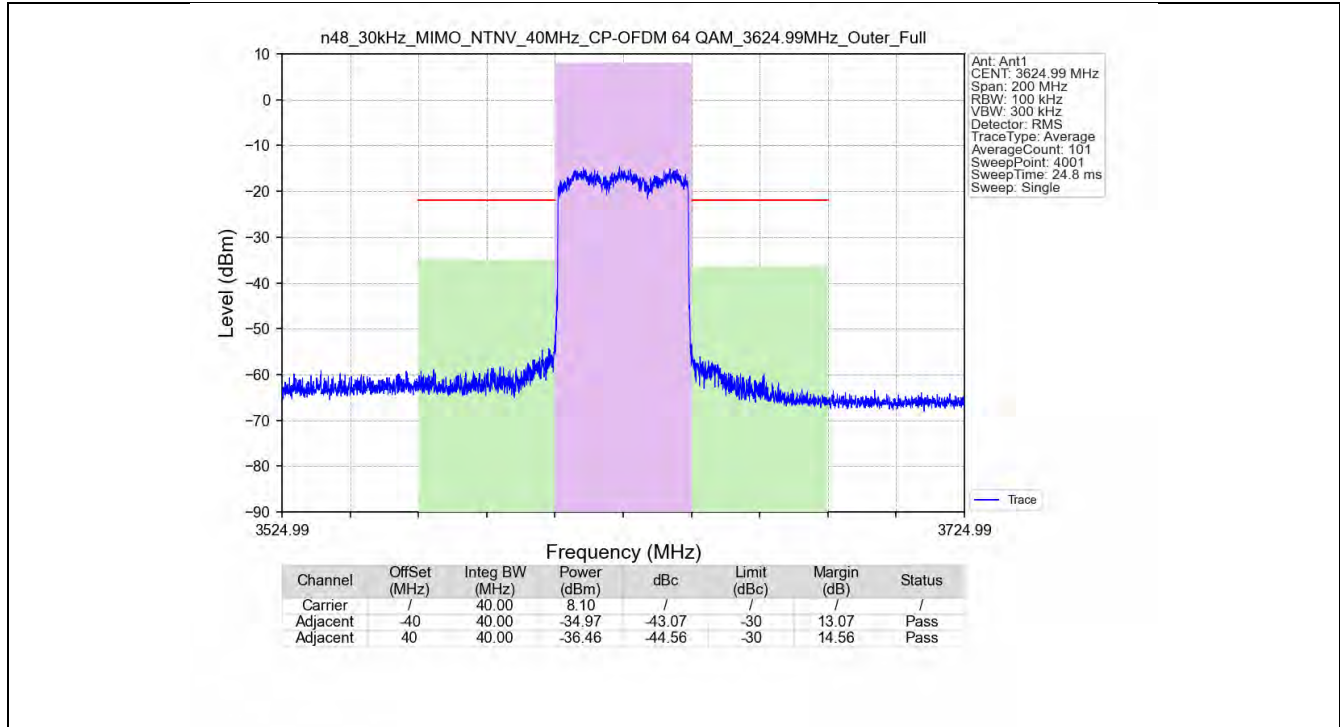


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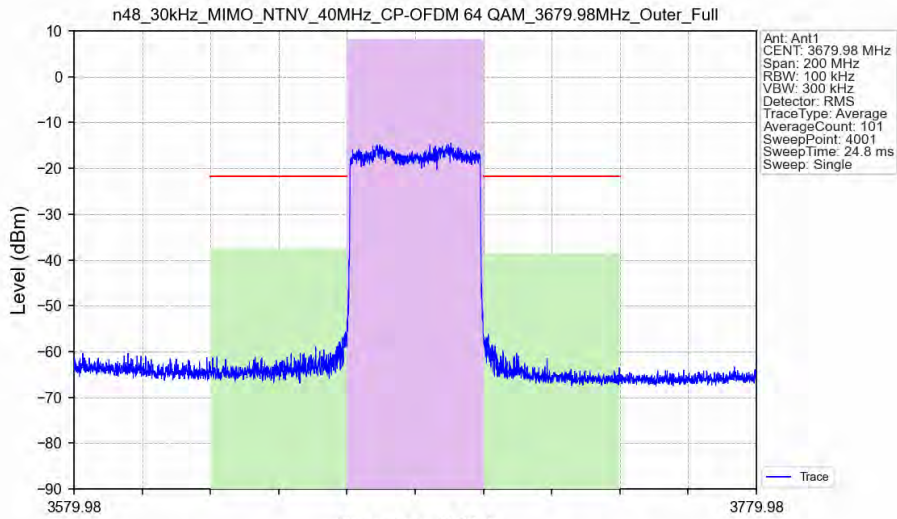
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM 64 QAM_3679.98MHz_Outer_Full



| Channel | OffSet (MHz) | Integ BW (MHz) | Power (dBm) | dBc | Limit (dBc) | Margin (dB) | Status |
|----------|--------------|----------------|-------------|--------|-------------|-------------|--------|
| Carrier | / | 40.00 | 8.31 | / | / | / | / |
| Adjacent | -40 | 40.00 | -37.38 | -45.69 | -30 | 15.69 | Pass |
| Adjacent | 40 | 40.00 | -38.49 | -46.80 | -30 | 16.80 | Pass |

n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM 256 QAM_3570MHz_Outer_Full



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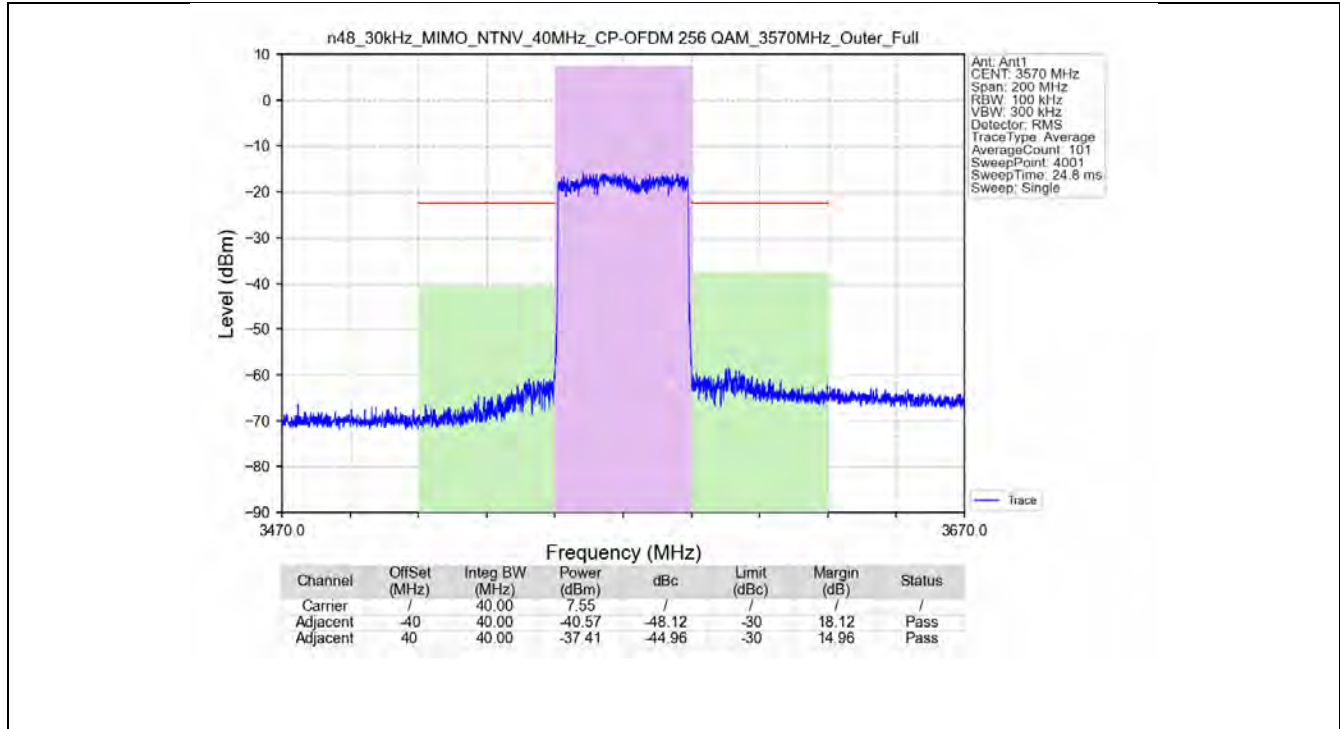


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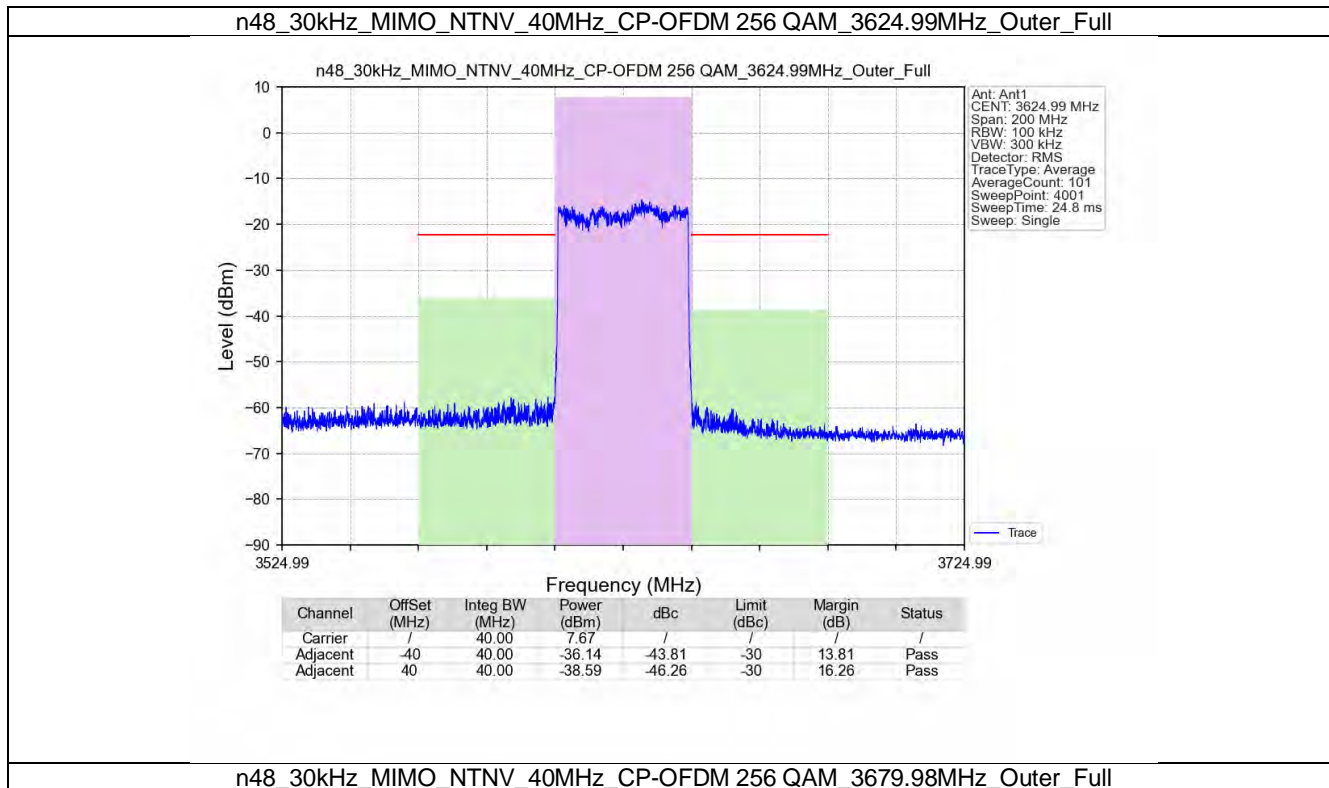
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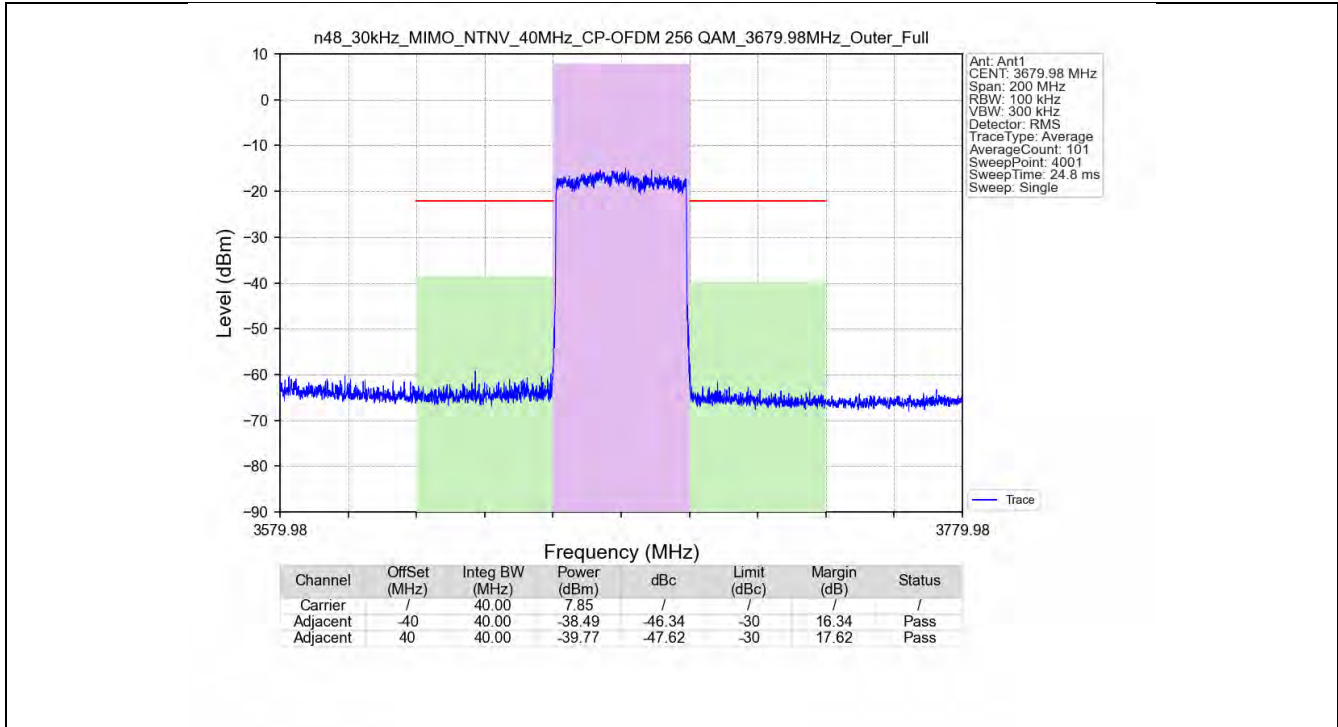


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7. Field Strength of Spurious Radiation

| NR Band 48-Low channel, Modulation: QPSK, Bandwidth:40MHz, 1RB#0 | | | | | | | | |
|--|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 7110 | -59.31 | -40 | -19.31 | -66.25 | 4.19 | 11.13 | Horizontal | Pass |
| 10655 | -55.89 | -40 | -15.89 | -63.935 | 5.08 | 13.12 | Horizontal | Pass |
| 14220 | -54.51 | -40 | -14.51 | -64.17 | 4.82 | 14.48 | Horizontal | Pass |
| 7110 | -58.56 | -40 | -18.56 | -65.5 | 4.19 | 11.13 | Vertical | Pass |
| 10655 | -56.68 | -40 | -16.68 | -64.725 | 5.08 | 13.12 | Vertical | Pass |
| 14220 | -54.19 | -40 | -14.19 | -63.85 | 4.82 | 14.48 | Vertical | Pass |

| NR Band 48-Middle channel, Modulation: QPSK, Bandwidth:40MHz, 1RB#0 | | | | | | | | |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 7159.98 | -58.96 | -40 | -18.96 | -65.9 | 4.19 | 11.13 | Horizontal | Pass |
| 10739.97 | -54.73 | -40 | -14.73 | -62.775 | 5.08 | 13.12 | Horizontal | Pass |
| 14319.96 | -48.44 | -40 | -8.44 | -58.1 | 4.82 | 14.48 | Horizontal | Pass |
| 7159.98 | -59.23 | -40 | -19.23 | -66.17 | 4.19 | 11.13 | Vertical | Pass |
| 10739.97 | -54.71 | -40 | -14.71 | -62.755 | 5.08 | 13.12 | Vertical | Pass |
| 14319.96 | -48.47 | -40 | -8.47 | -58.13 | 4.82 | 14.48 | Vertical | Pass |

| NR Band 48-High channel, Modulation: QPSK, Bandwidth:40MHz, 1RB#0 | | | | | | | | |
|---|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 7209.96 | -59.26 | -40 | -19.26 | -66.2 | 4.19 | 11.13 | Horizontal | Pass |
| 10814.94 | -55.19 | -40 | -15.19 | -63.235 | 5.08 | 13.12 | Horizontal | Pass |
| 14419.92 | -51.64 | -40 | -11.64 | -61.3 | 4.82 | 14.48 | Horizontal | Pass |
| 7209.96 | -58.79 | -40 | -18.79 | -65.73 | 4.19 | 11.13 | Vertical | Pass |
| 10814.94 | -54.19 | -40 | -14.19 | -62.235 | 5.08 | 13.12 | Vertical | Pass |
| 14419.92 | -52.11 | -40 | -12.11 | -61.77 | 4.82 | 14.48 | Vertical | Pass |

---End of Attachment---



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