

5. Spurious Emission & Band Edges

5.1 B66_1.4MHz

5.1.1 Test Result

| Band: 66 / Bandwidth: 1.4MHz / NTN | | | | | | |
|------------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1710.7 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | 1745 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | 1779.3 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 5 | Refer To Test Graph | | Pass |
| 16QAM | 1710.7 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | 1745 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | 1779.3 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 5 | Refer To Test Graph | | Pass |
| 64QAM | 1710.7 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | 1745 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | 1779.3 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 5 | Refer To Test Graph | | Pass |

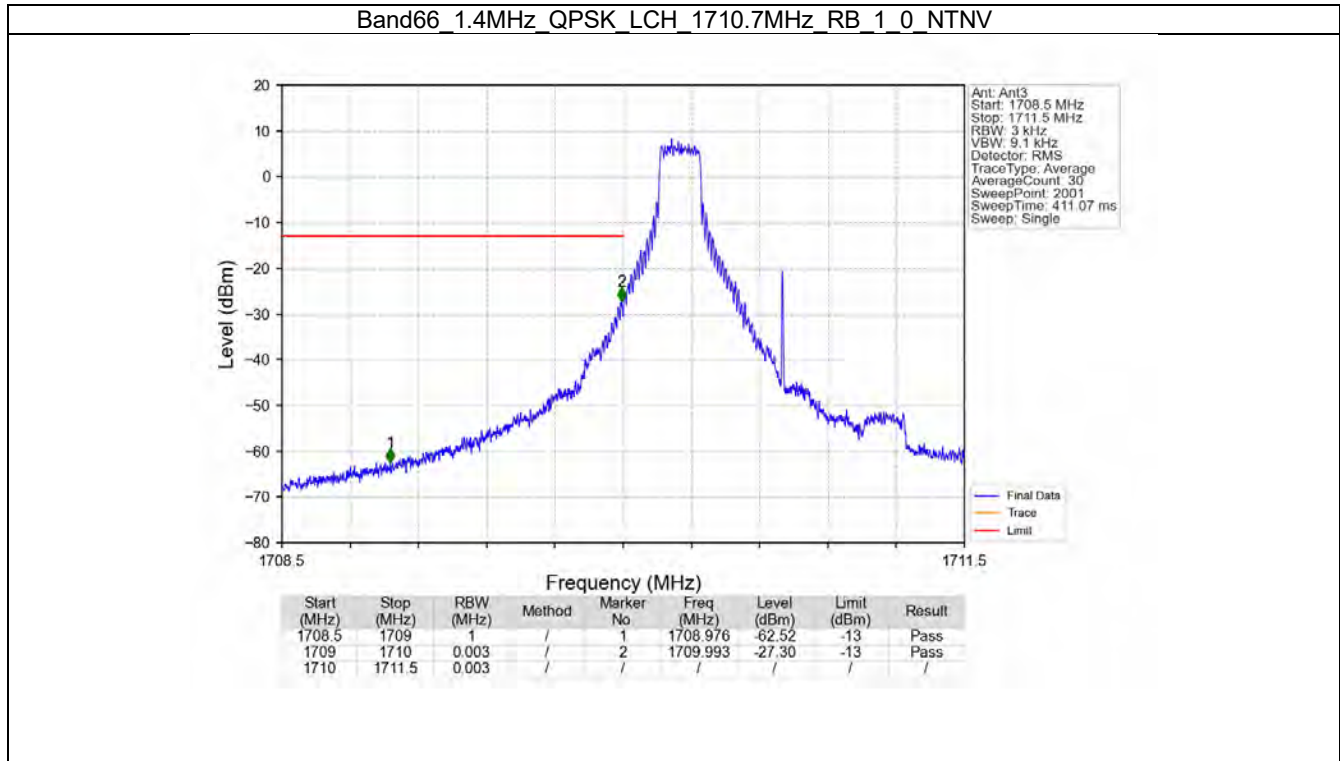


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5.1.2 Test Graph



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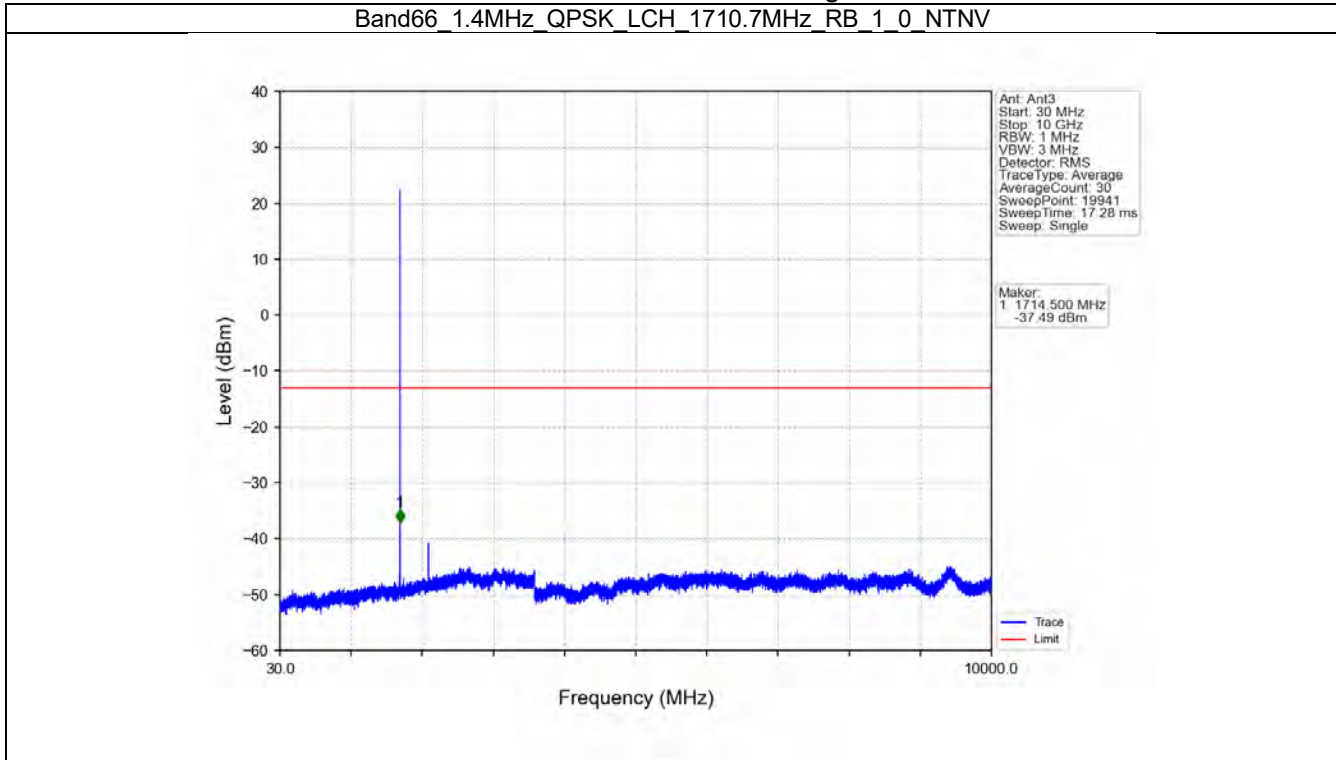
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 206 of 392

Band66_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV

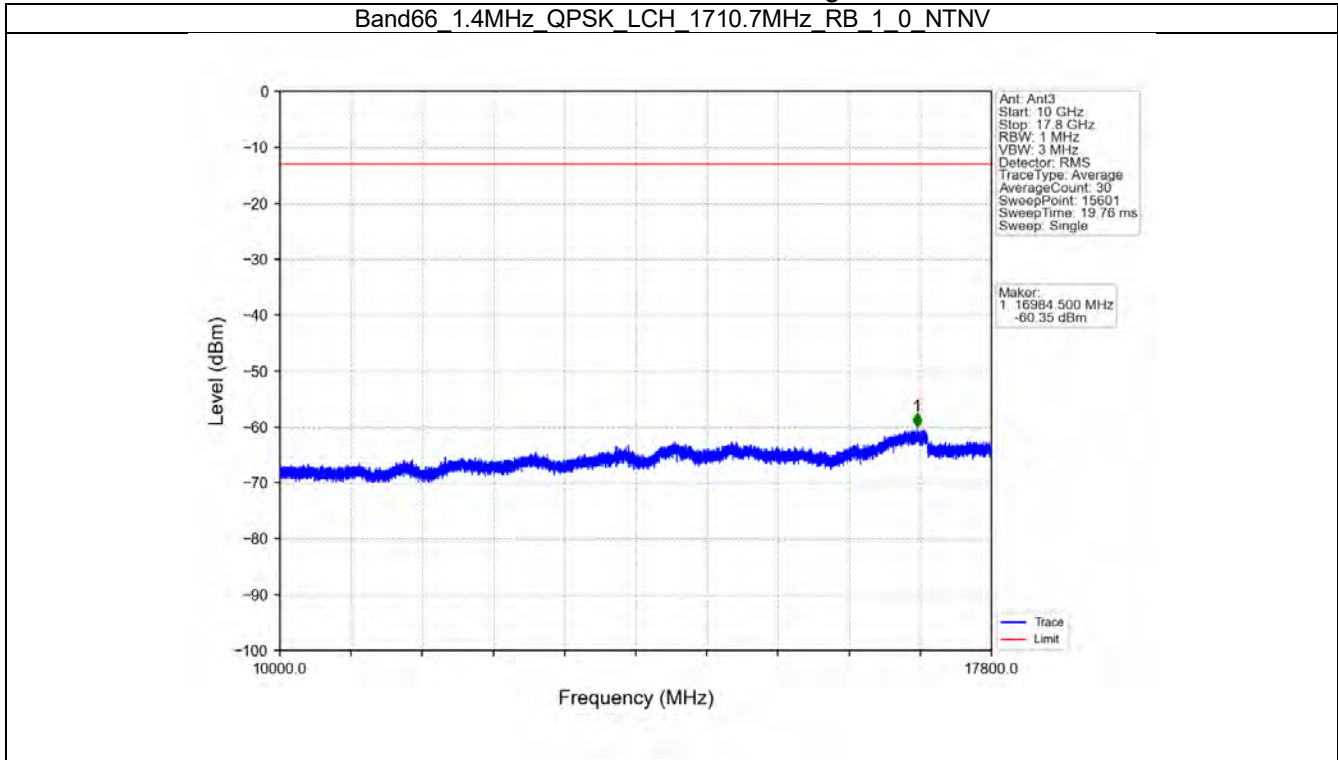


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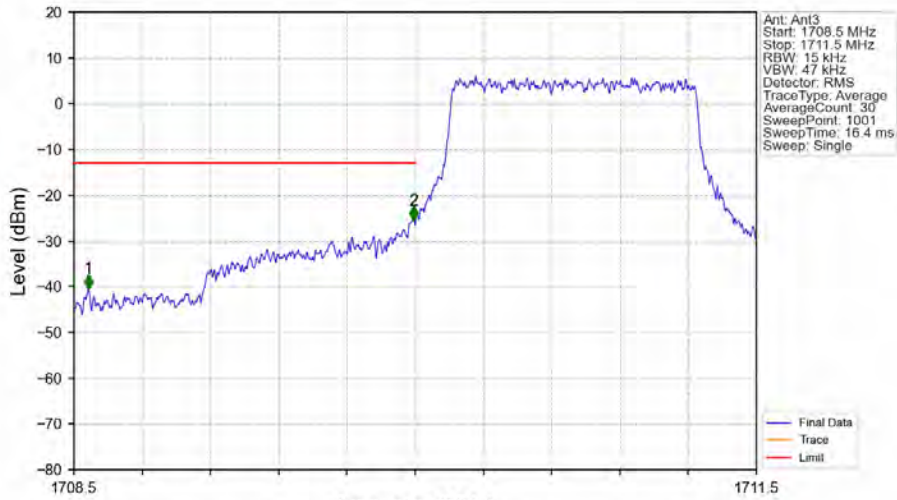
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 208 of 392

Band66_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1708.5 | 1709 | 1 | / | 1 | 1708.563 | -40.42 | -13 | Pass |
| 1709 | 1710 | 0.015 | / | 2 | 1709.994 | -25.52 | -13 | Pass |
| 1710 | 1711.5 | 0.015 | / | / | / | / | / | / |



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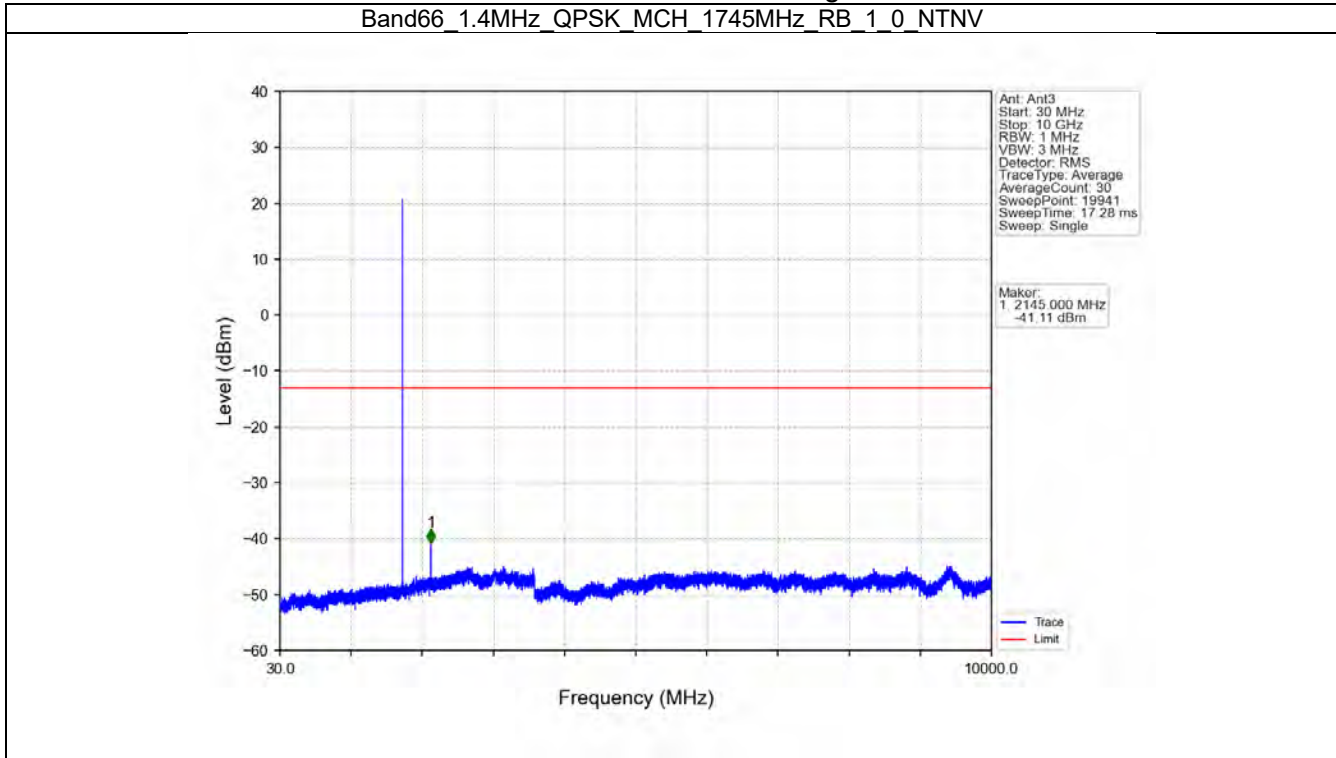
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Rev.: 01

Page: 209 of 392

Band66_1.4MHz_QPSK_MCH_1745MHz_RB_1_0_NTNV



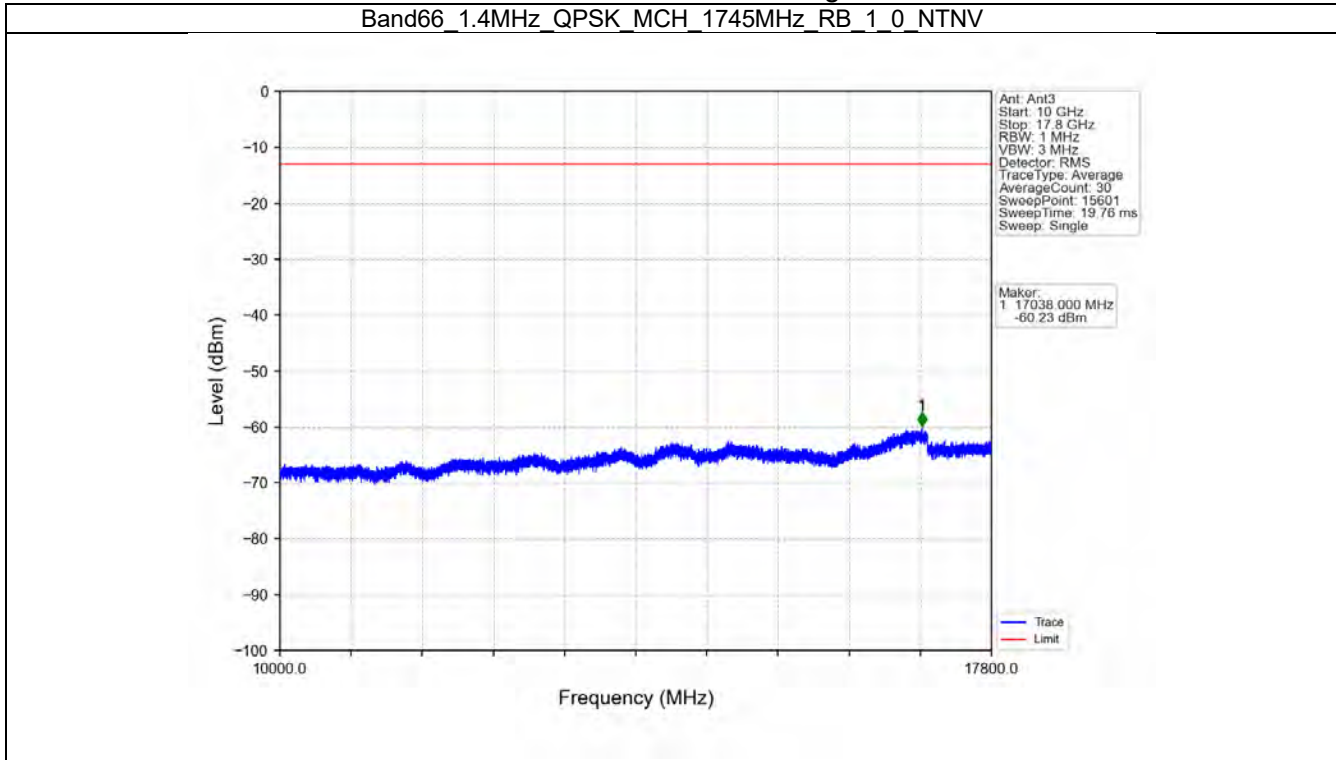
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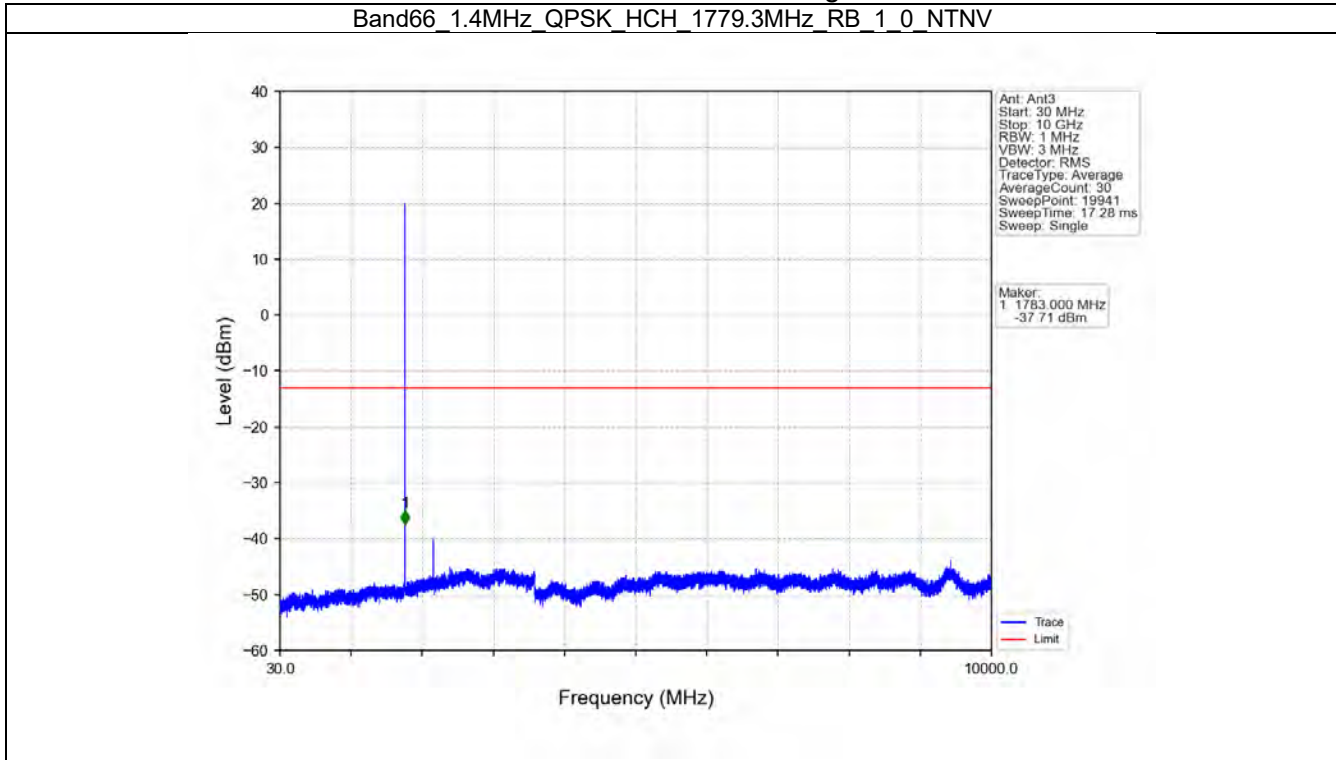


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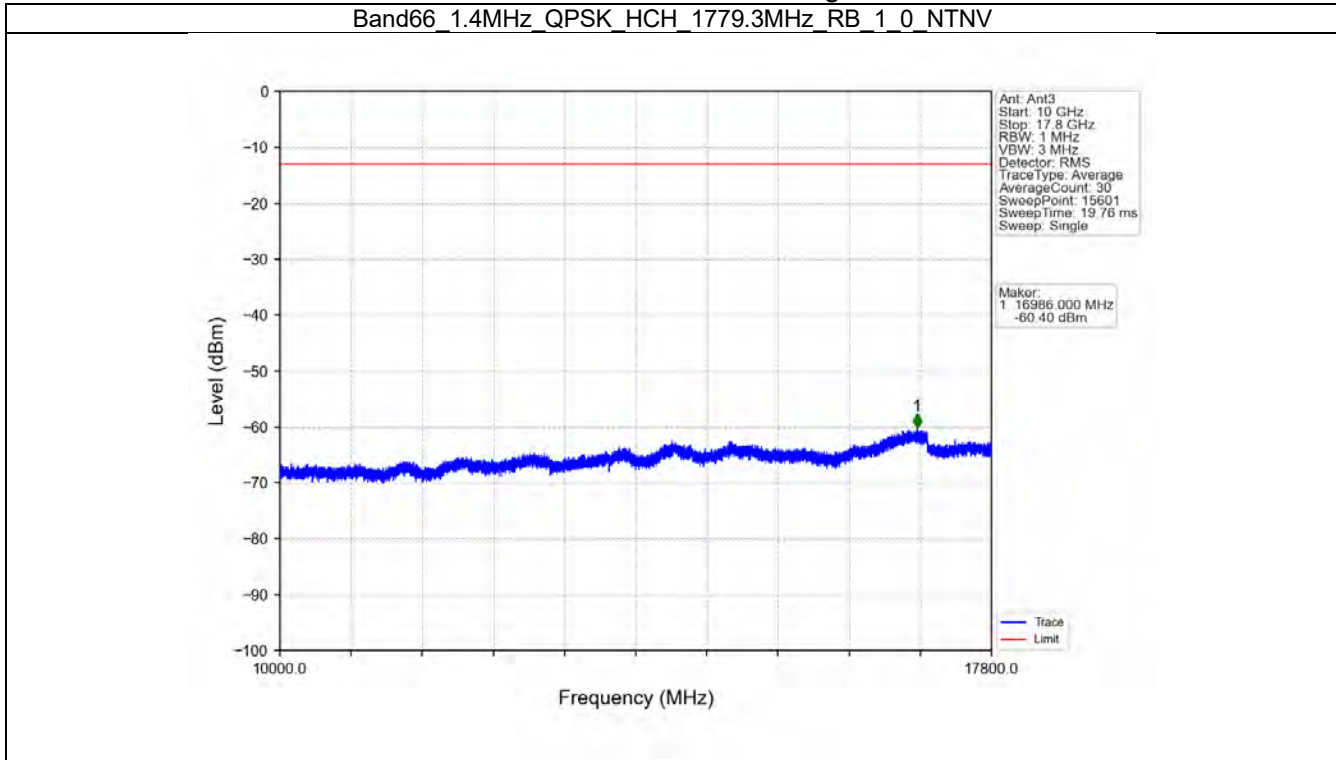


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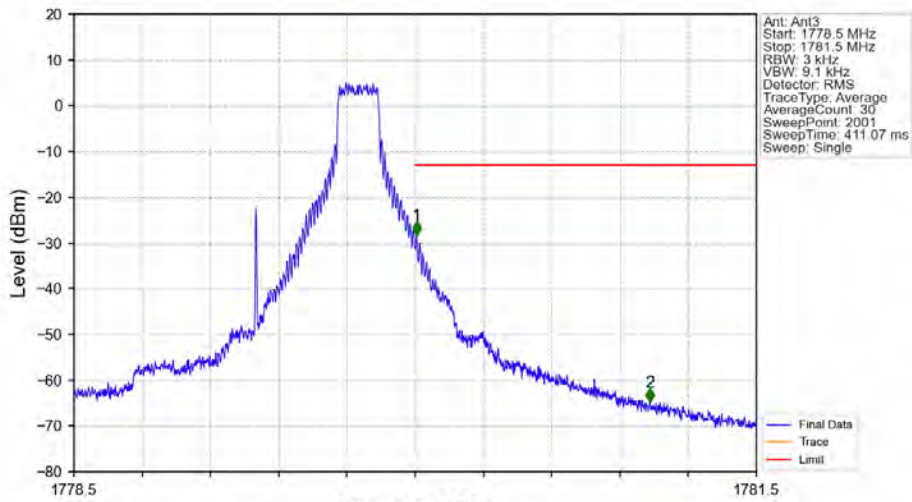
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Rev.: 01

Page: 213 of 392

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| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1778.5 | 1780 | 0.003 | / | / | / | / | / | / |
| 1780 | 1781 | 0.003 | / | 1 | 1780.006 | -28.28 | -13 | Pass |
| 1781 | 1781.5 | 1 | / | 2 | 1781.032 | -64.86 | -13 | Pass |



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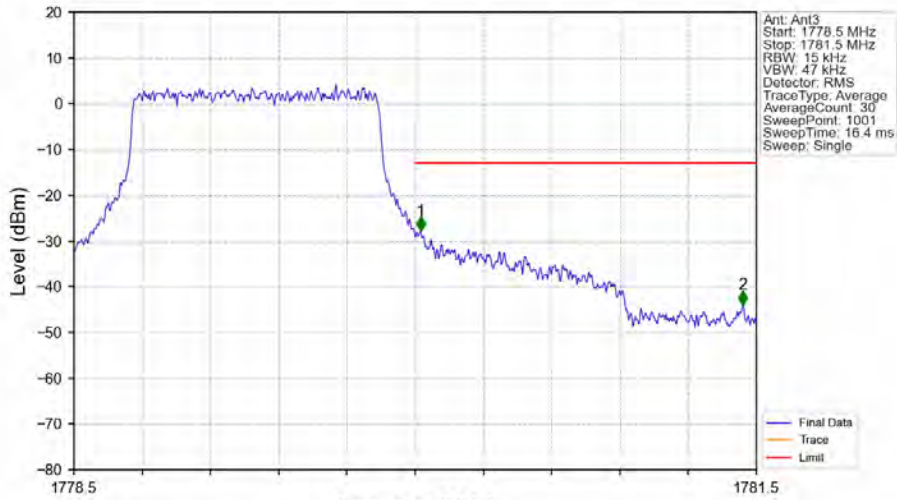
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Page: 214 of 392

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| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1778.5 | 1780 | 0.015 | / | / | / | / | / | / |
| 1780 | 1781 | 0.015 | / | 1 | 1780.024 | -27.82 | -13 | Pass |
| 1781 | 1781.5 | 1 | / | 2 | 1781.440 | -43.93 | -13 | Pass |



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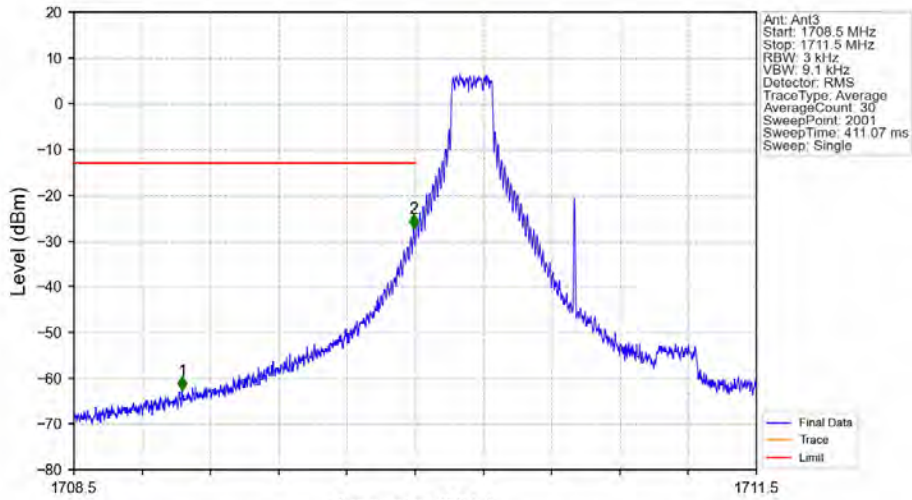
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Rev.: 01

Page: 215 of 392

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|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1708.5 | 1709 | 1 | / | 1 | 1708.976 | -62.72 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.993 | -27.25 | -13 | Pass |
| 1710 | 1711.5 | 0.003 | / | / | / | / | / | / |



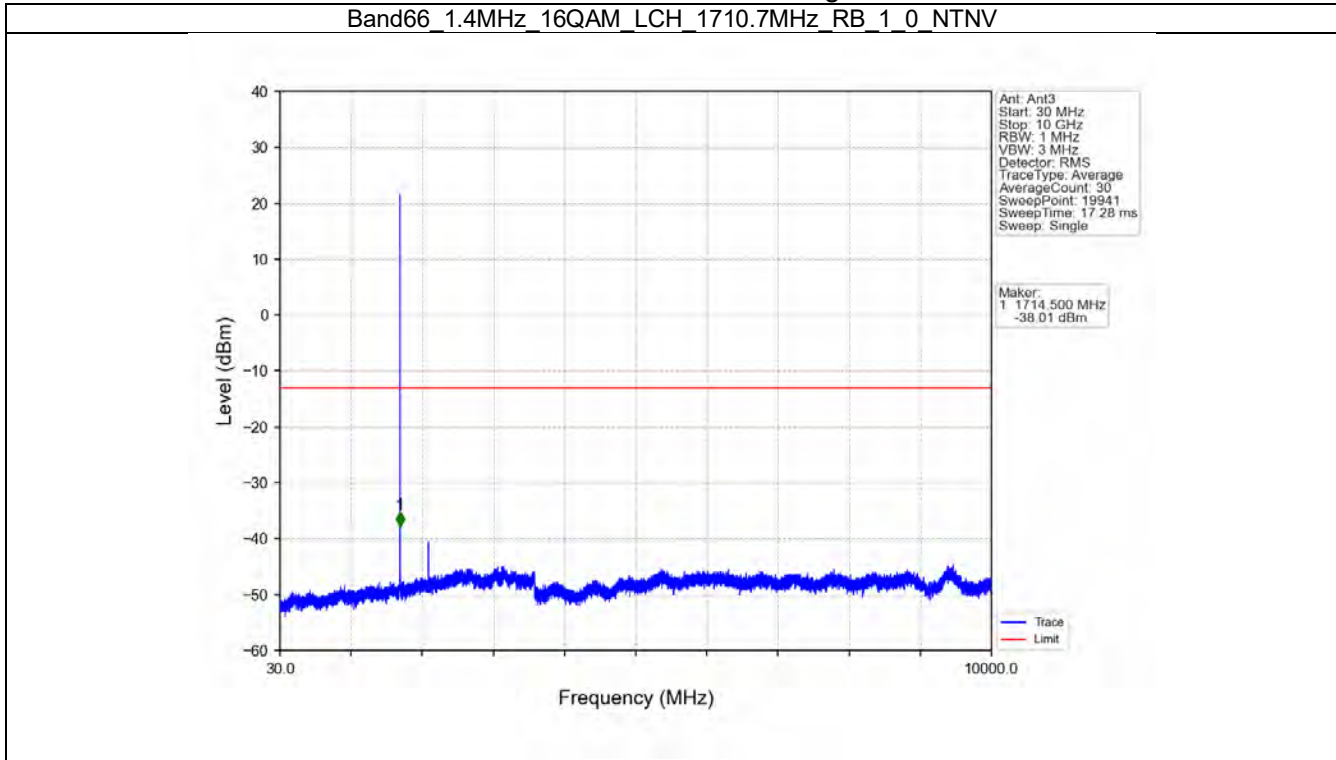
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Band66_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV

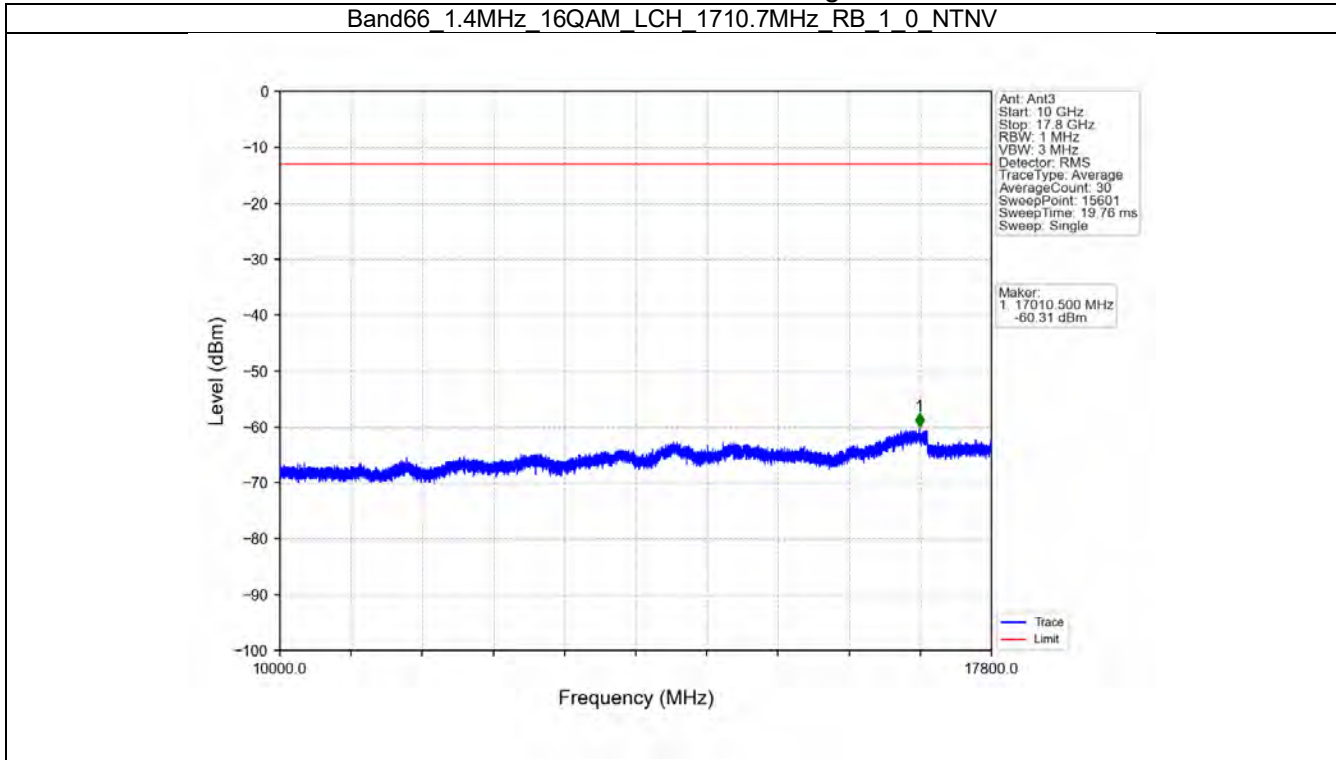


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Band66_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



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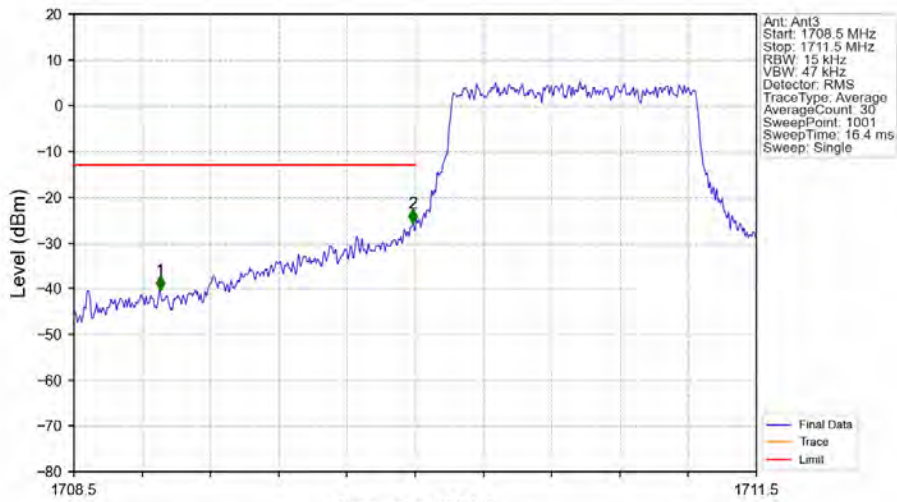
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 218 of 392

Band66_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1708.5 | 1709 | 1 | / | 1 | 1708.878 | -40.39 | -13 | Pass |
| 1709 | 1710 | 0.015 | / | 2 | 1709.991 | -25.73 | -13 | Pass |
| 1710 | 1711.5 | 0.015 | / | / | / | / | / | / |

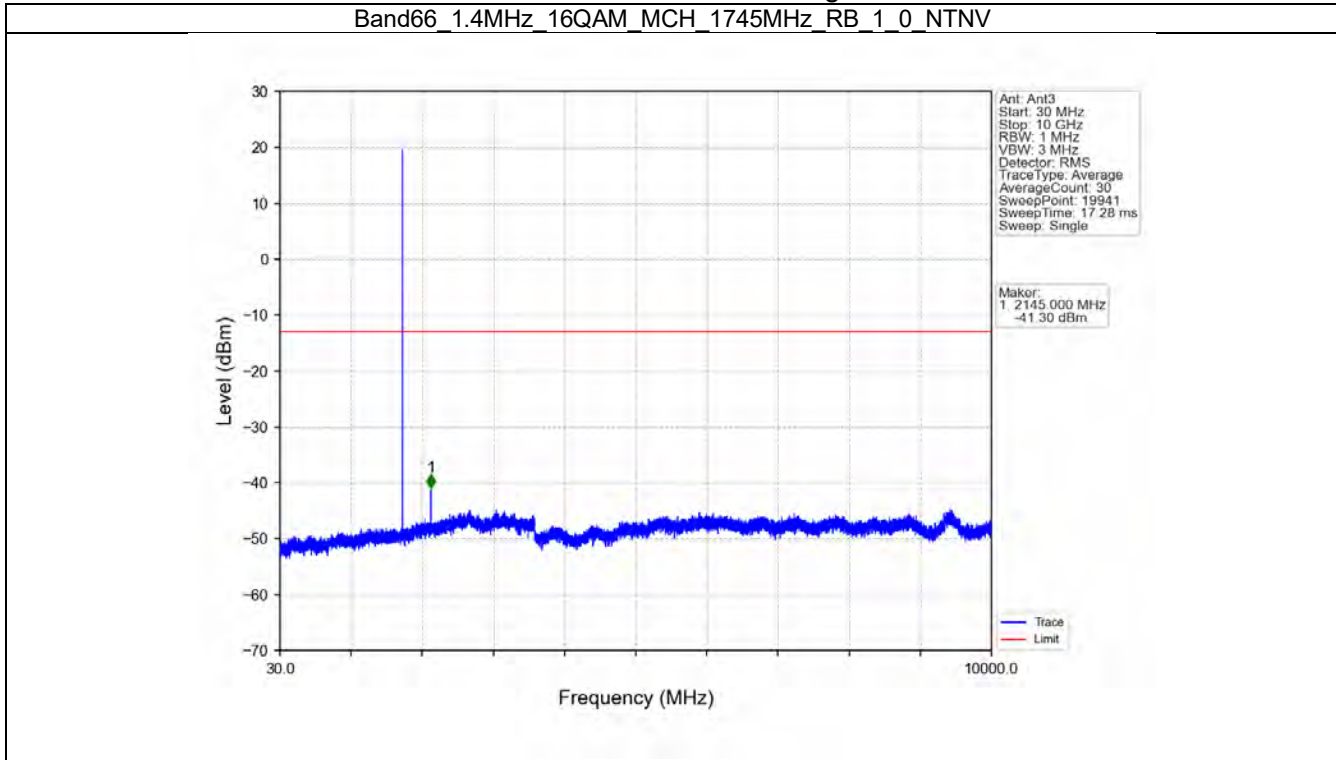


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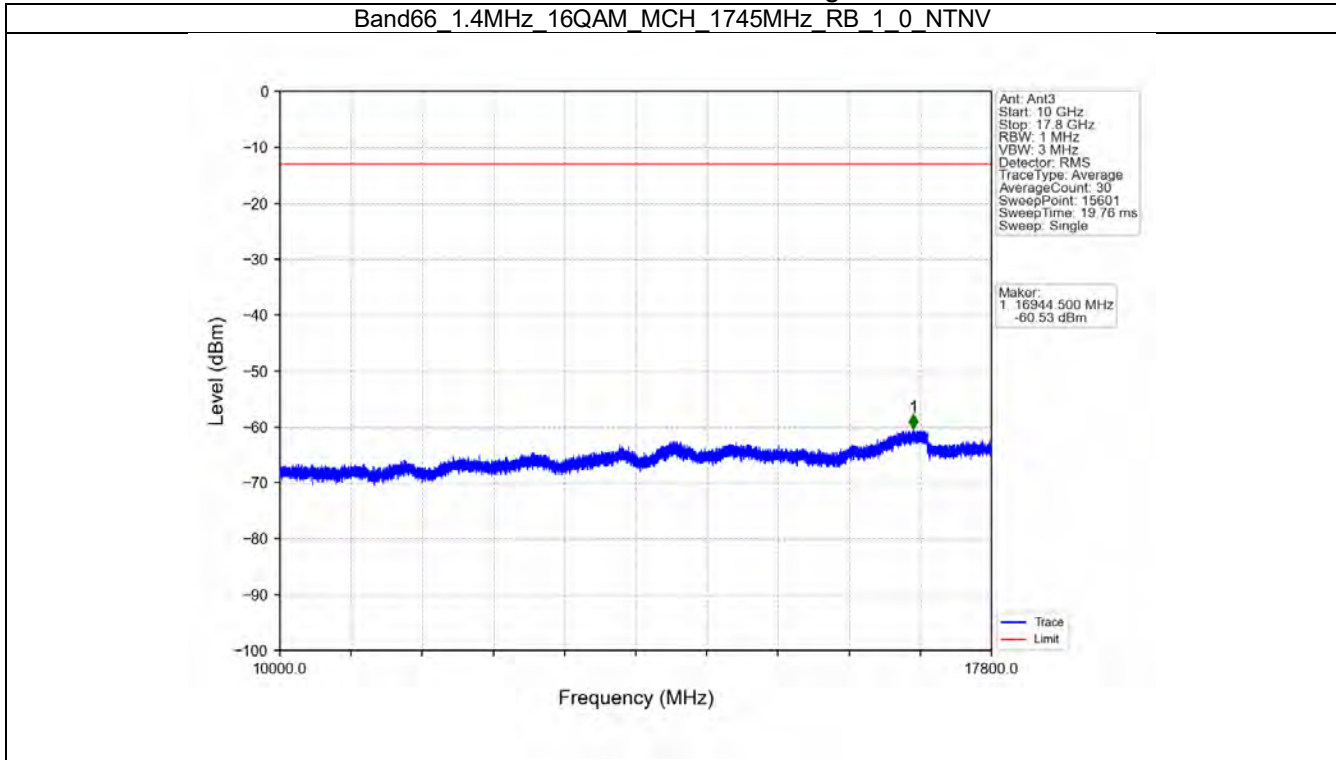


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Band66_1.4MHz_16QAM_MCH_1745MHz_RB_1_0_NTNV

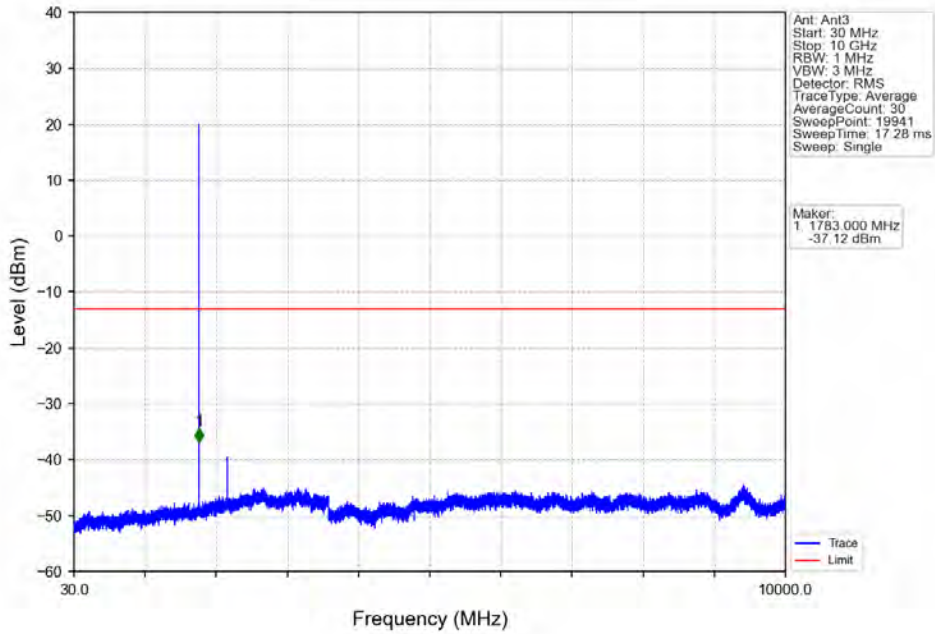


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Band66_1.4MHz_16QAM_HCH_1779.3MHz_RB_1_0_NTNV

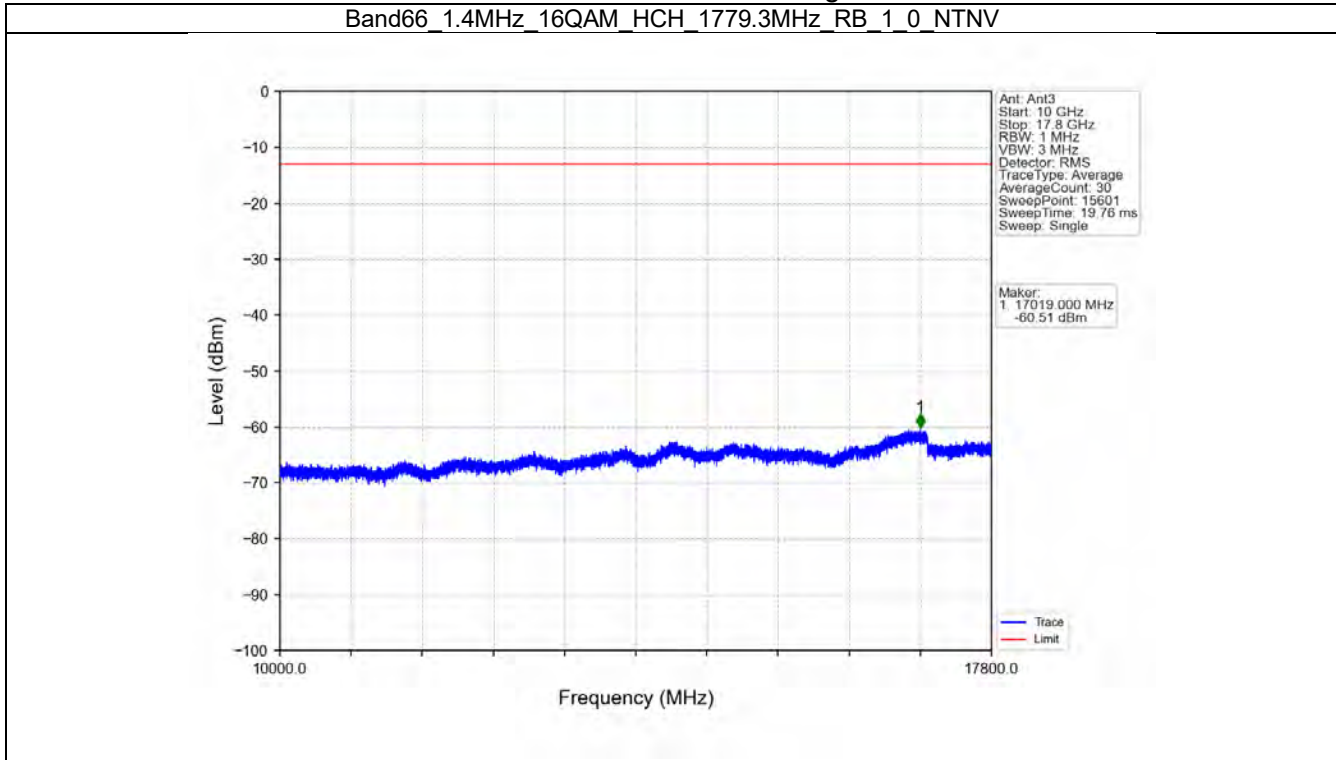


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Band66_1.4MHz_16QAM_HCH_1779.3MHz_RB_1_0_NTNV



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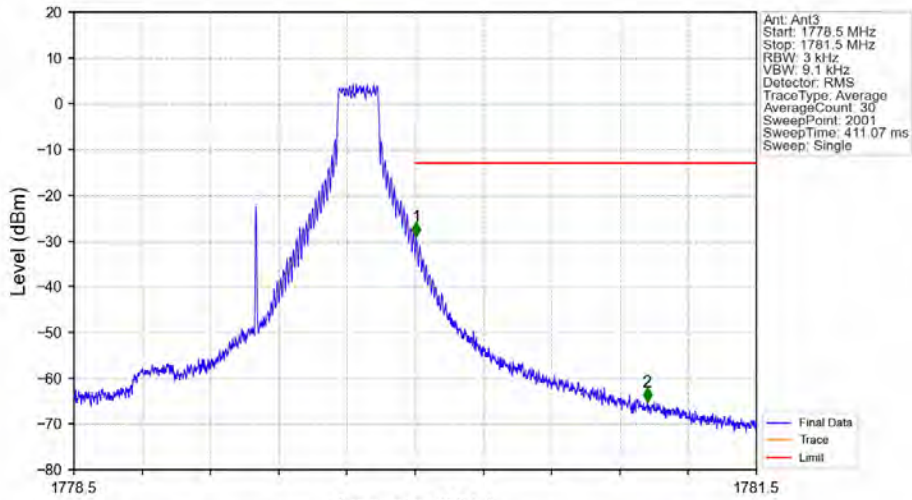
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 223 of 392

Band66_1.4MHz_16QAM_HCH_1779.3MHz_RB_1_5_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1778.5 | 1780 | 0.003 | / | / | / | / | / | / |
| 1780 | 1781 | 0.003 | / | 1 | 1780.005 | -29.07 | -13 | Pass |
| 1781 | 1781.5 | 1 | / | 2 | 1781.020 | -65.18 | -13 | Pass |



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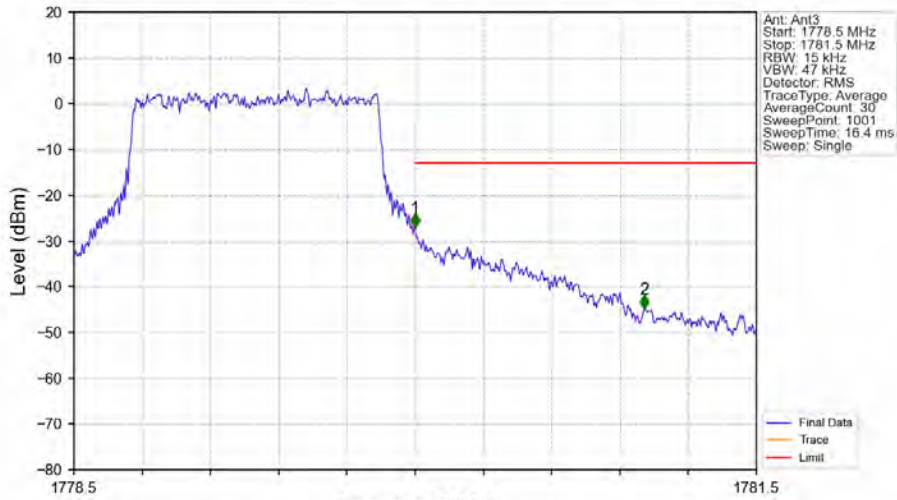
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 224 of 392

Band66_1.4MHz_16QAM_HCH_1779.3MHz_RB_6_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1778.5 | 1780 | 0.015 | / | / | / | / | / | / |
| 1780 | 1781 | 0.015 | / | 1 | 1780.000 | -27.11 | -13 | Pass |
| 1781 | 1781.5 | 1 | / | 2 | 1781.008 | -44.88 | -13 | Pass |



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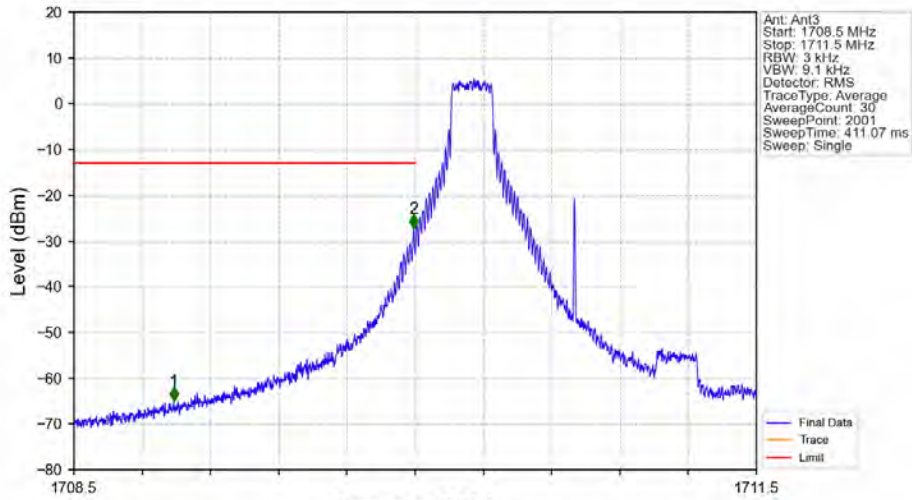
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Rev.: 01

Page: 225 of 392

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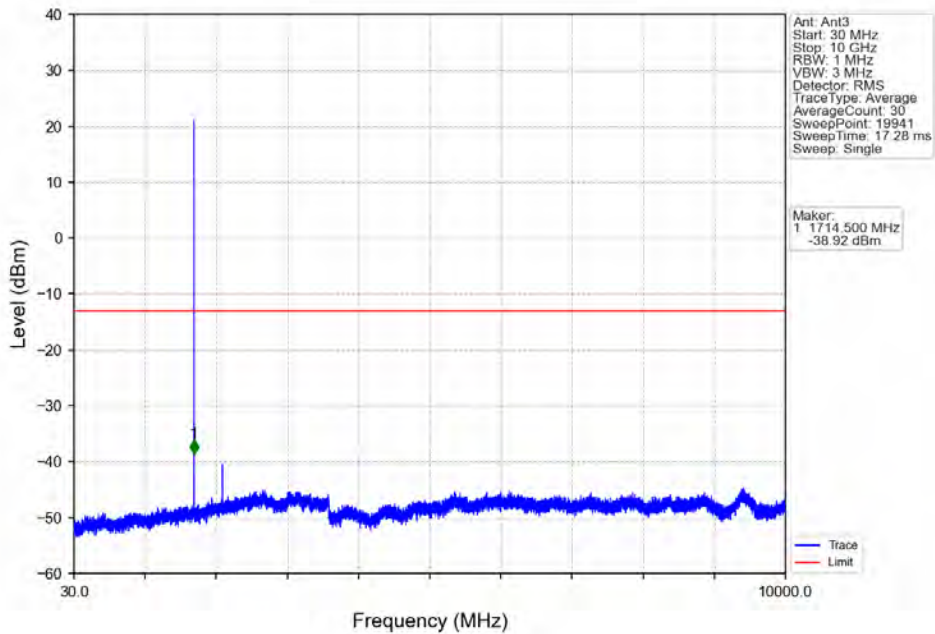
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1708.5 | 1709 | 1 | / | 1 | 1708.938 | -65.08 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.994 | -27.23 | -13 | Pass |
| 1710 | 1711.5 | 0.003 | / | / | / | / | / | / |



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Band66_1.4MHz_64QAM_LCH_1710.7MHz_RB_1_0_NTNV



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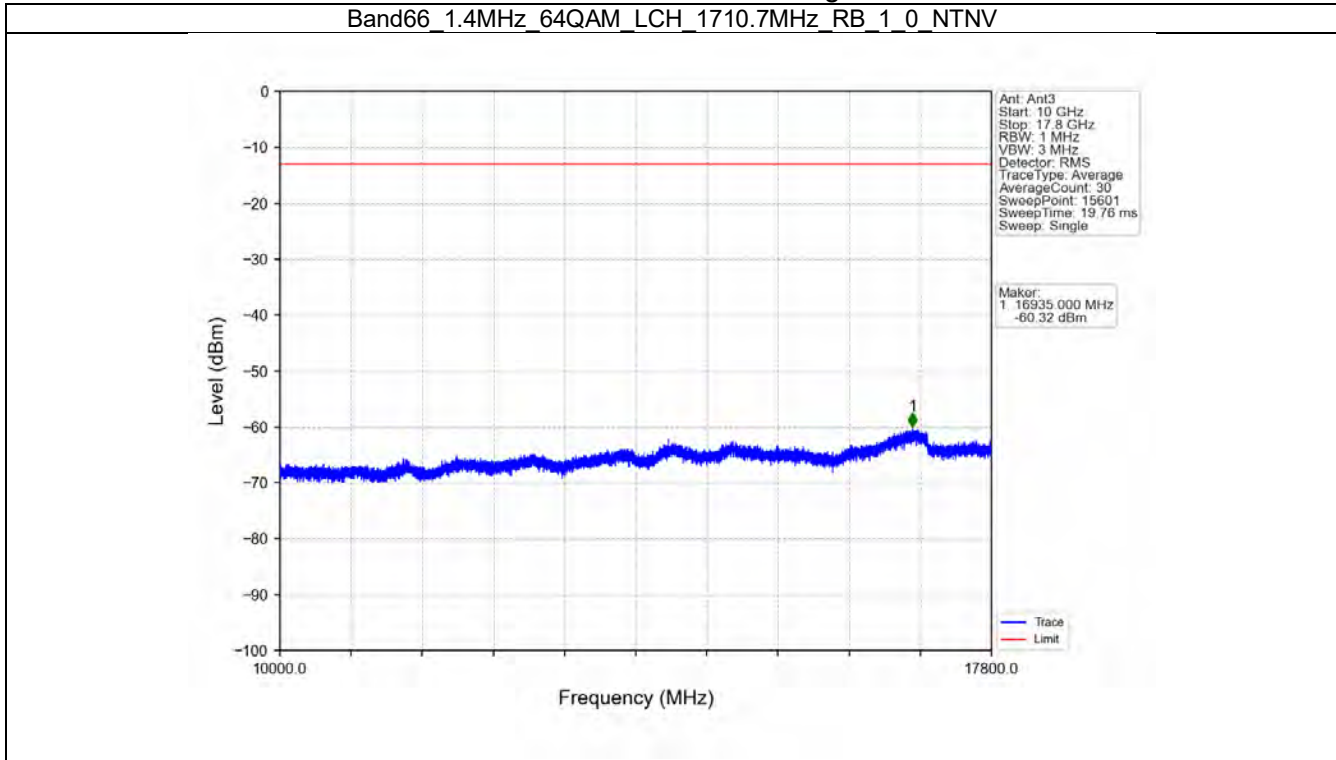
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 227 of 392

Band66_1.4MHz_64QAM_LCH_1710.7MHz_RB_1_0_NTNV



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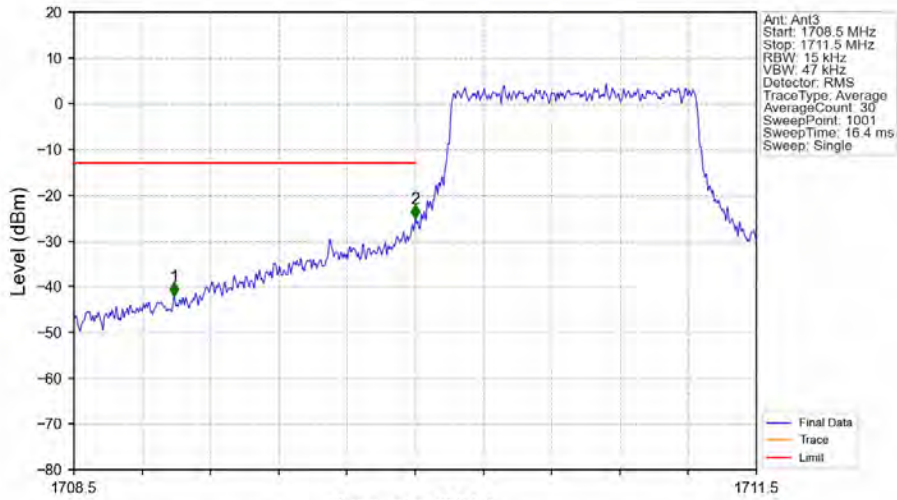
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 228 of 392

Band66_1.4MHz_64QAM_LCH_1710.7MHz_RB_6_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1708.5 | 1709 | 1 | / | 1 | 1708.941 | -42.05 | -13 | Pass |
| 1709 | 1710 | 0.015 | / | 2 | 1710.000 | -25.23 | -13 | Pass |
| 1710 | 1711.5 | 0.015 | / | / | / | / | / | / |

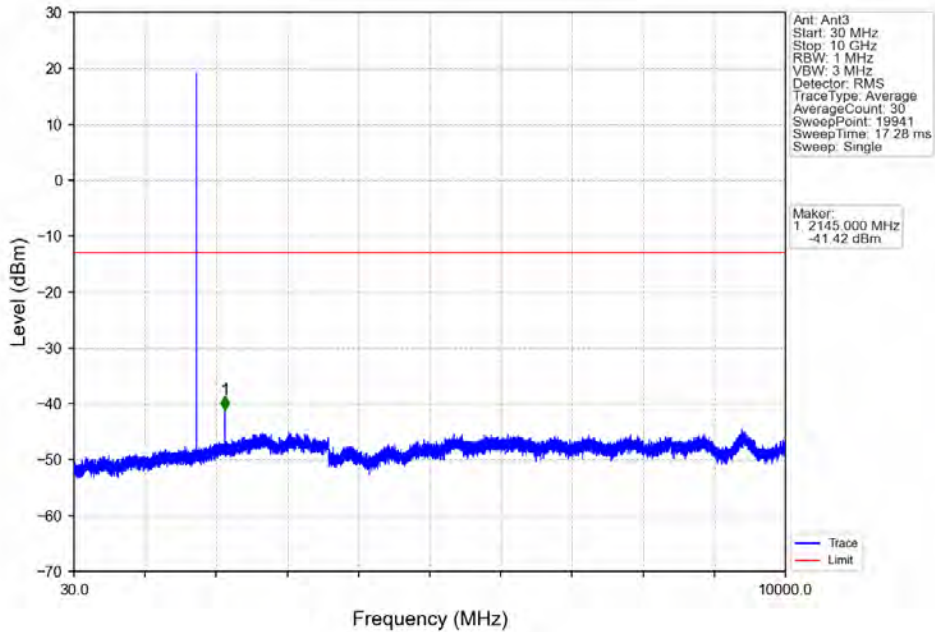


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Band66_1.4MHz_64QAM_MCH_1745MHz_RB_1_0_NTNV

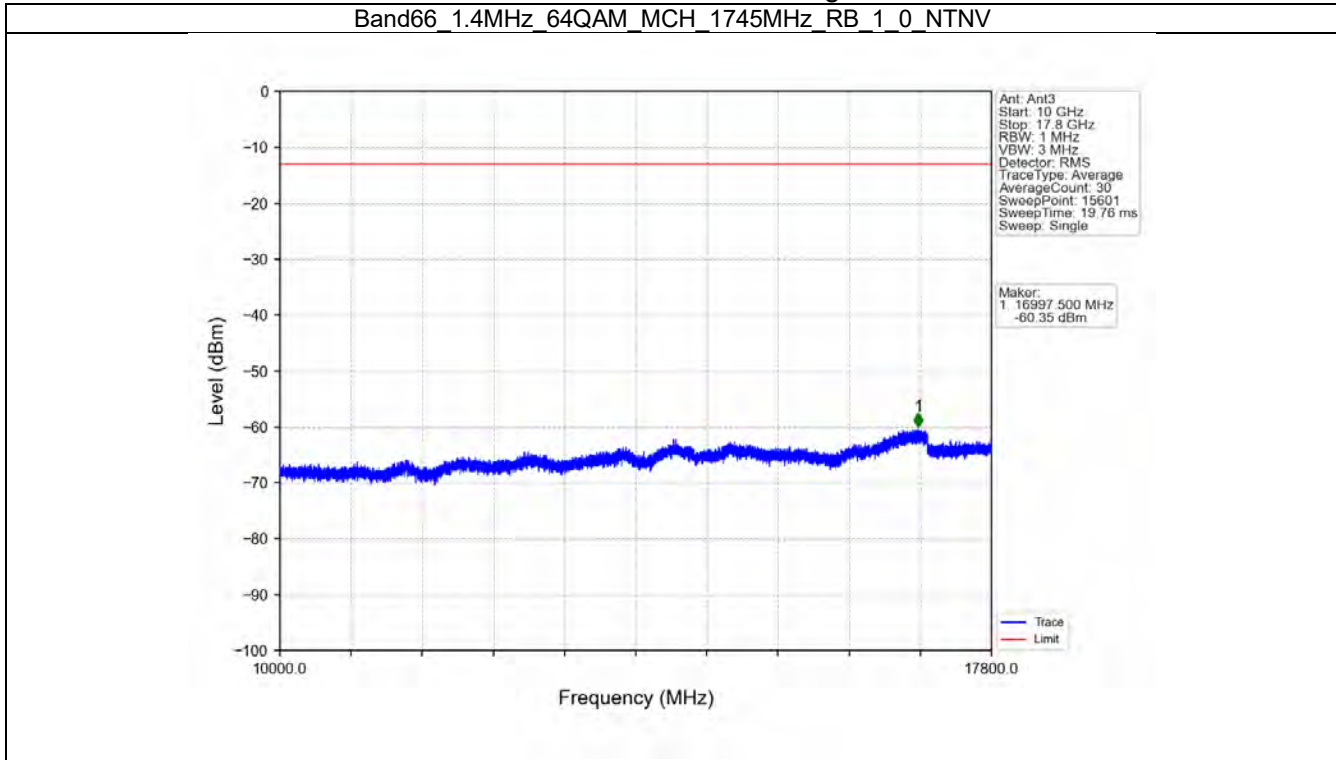


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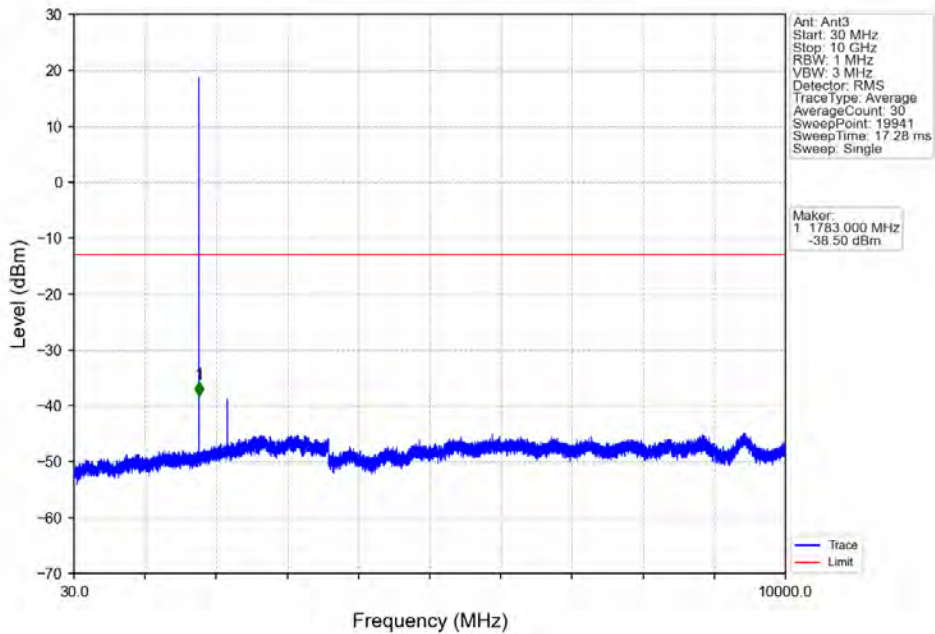


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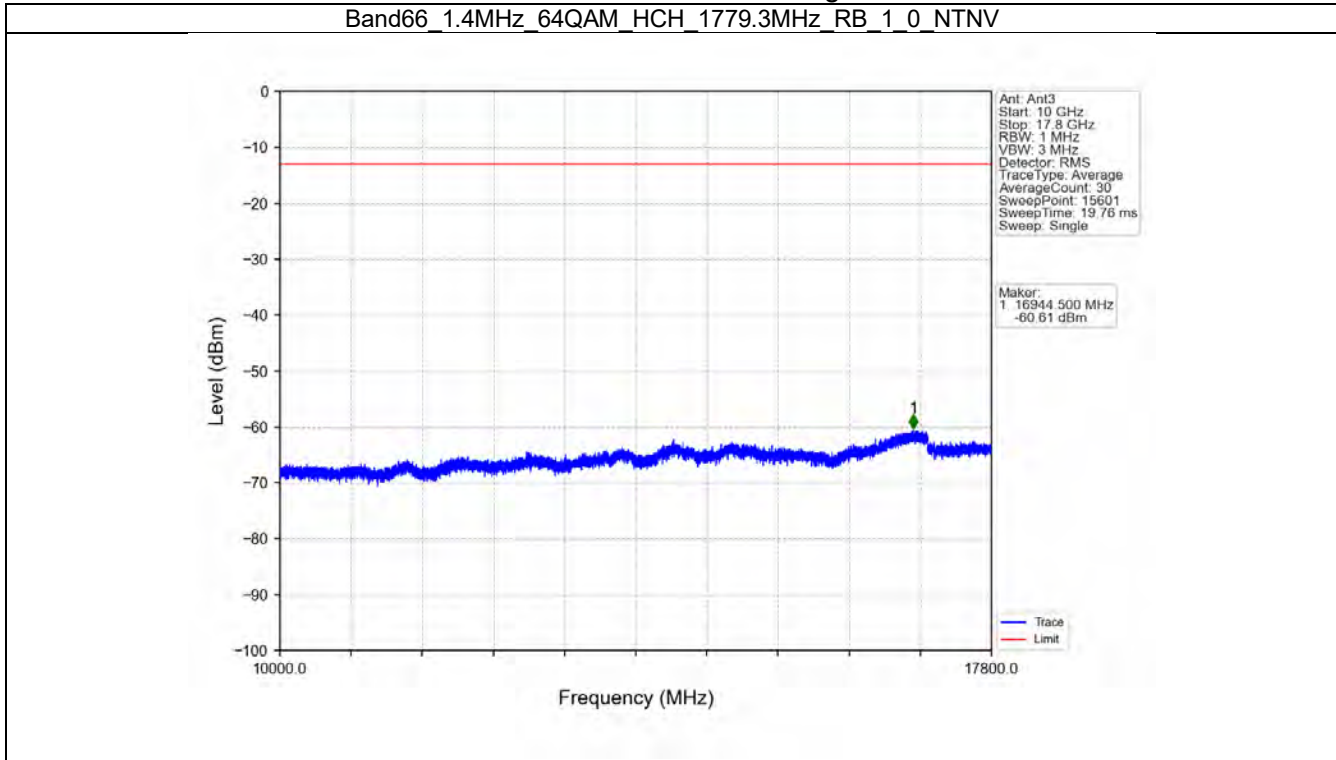


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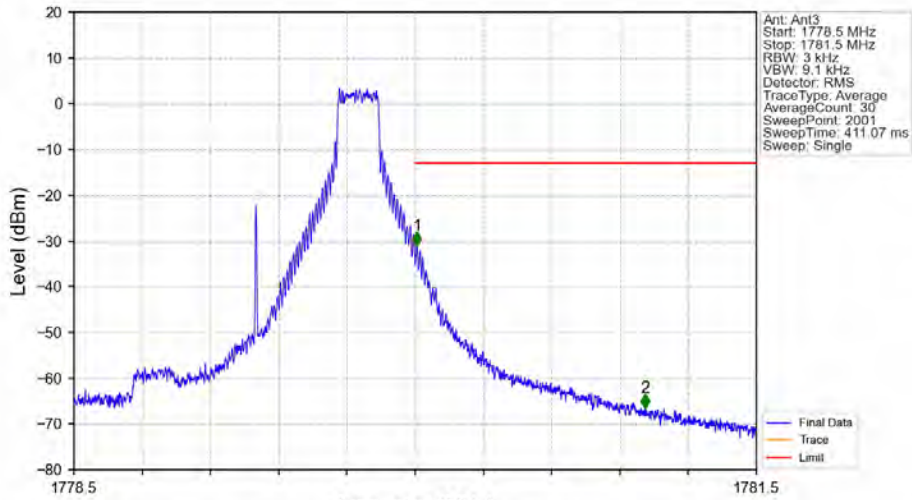
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 233 of 392

Band66_1.4MHz_64QAM_HCH_1779.3MHz_RB_1_5_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1778.5 | 1780 | 0.003 | / | / | / | / | / | / |
| 1780 | 1781 | 0.003 | / | 1 | 1780.007 | -31.07 | -13 | Pass |
| 1781 | 1781.5 | 1 | / | 2 | 1781.011 | -66.51 | -13 | Pass |



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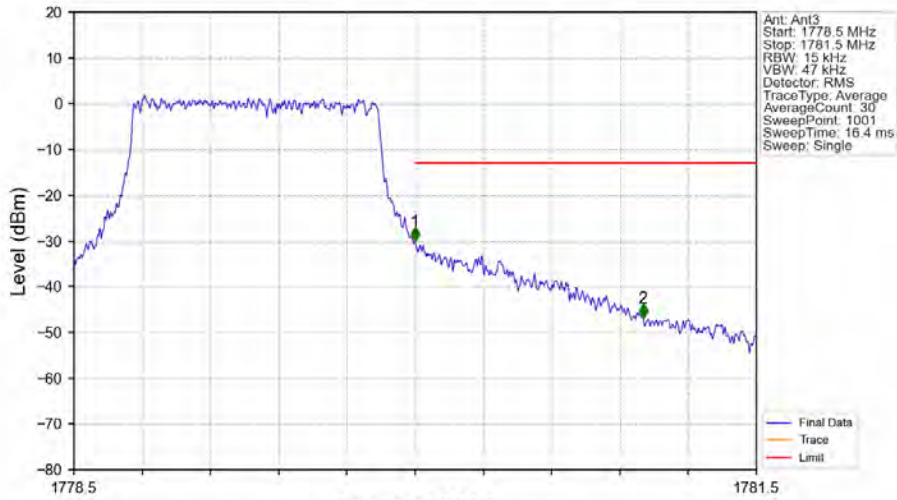
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 234 of 392

Band66_1.4MHz_64QAM_HCH_1779.3MHz_RB_6_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1778.5 | 1780 | 0.015 | / | / | / | / | / | / |
| 1780 | 1781 | 0.015 | / | 1 | 1780.000 | -30.11 | -13 | Pass |
| 1781 | 1781.5 | 1 | / | 2 | 1781.002 | -46.90 | -13 | Pass |



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5.2 B66_3MHz

5.2.1 Test Result

| Band: 66 / Bandwidth: 3MHz / NTNV | | | | | | |
|-----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1711.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | 1778.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 14 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | | | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1711.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | 1778.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 14 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | | | 0 | Refer To Test Graph | | Pass |
| 64QAM | 1711.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | 1778.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 14 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | | | 0 | Refer To Test Graph | | Pass |

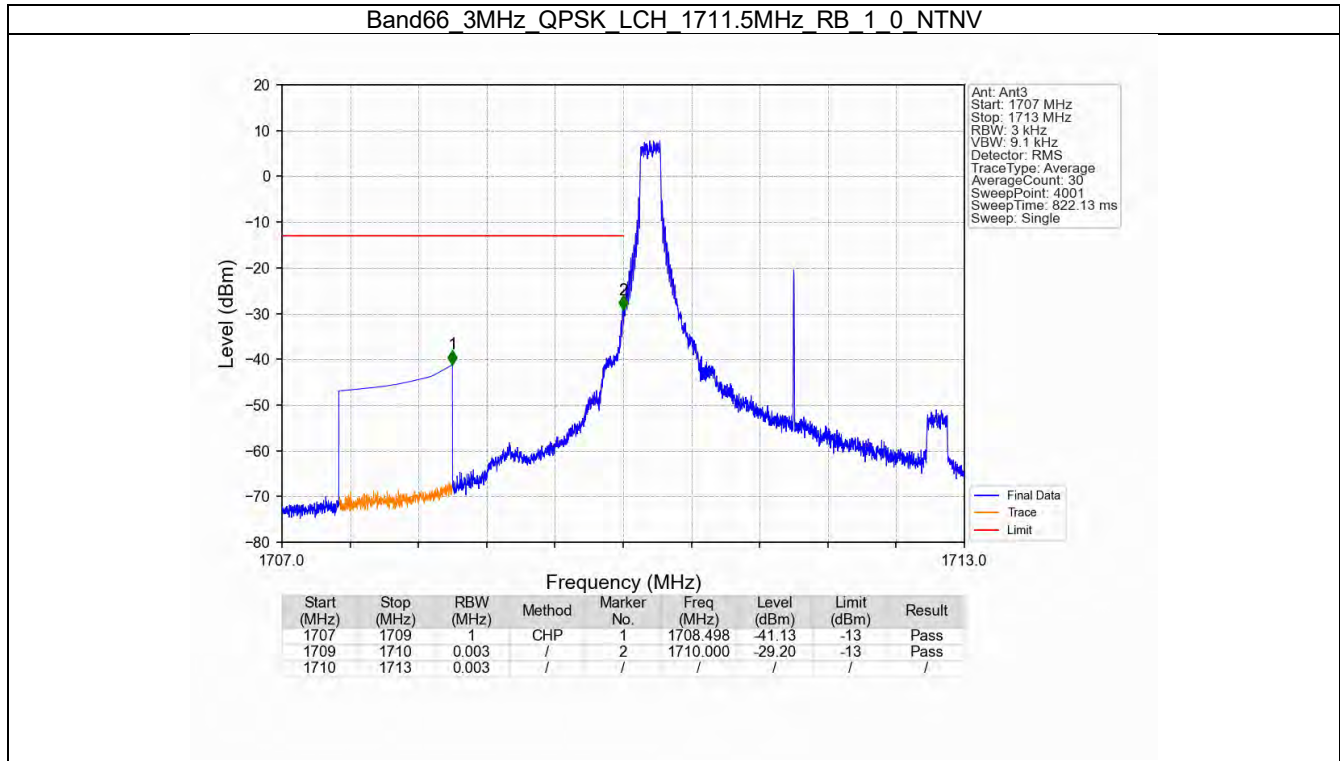


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5.2.2 Test Graph



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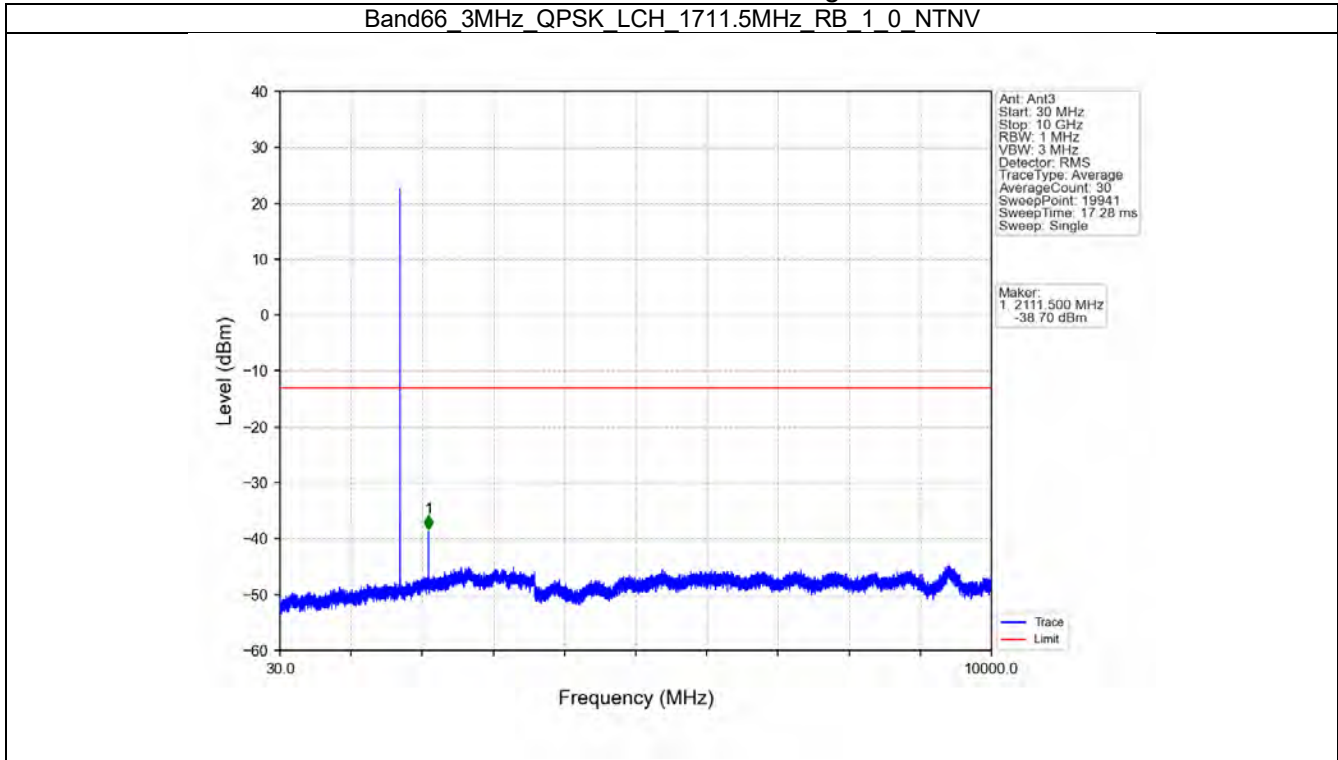
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Rev.: 01

Page: 237 of 392

Band66_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV



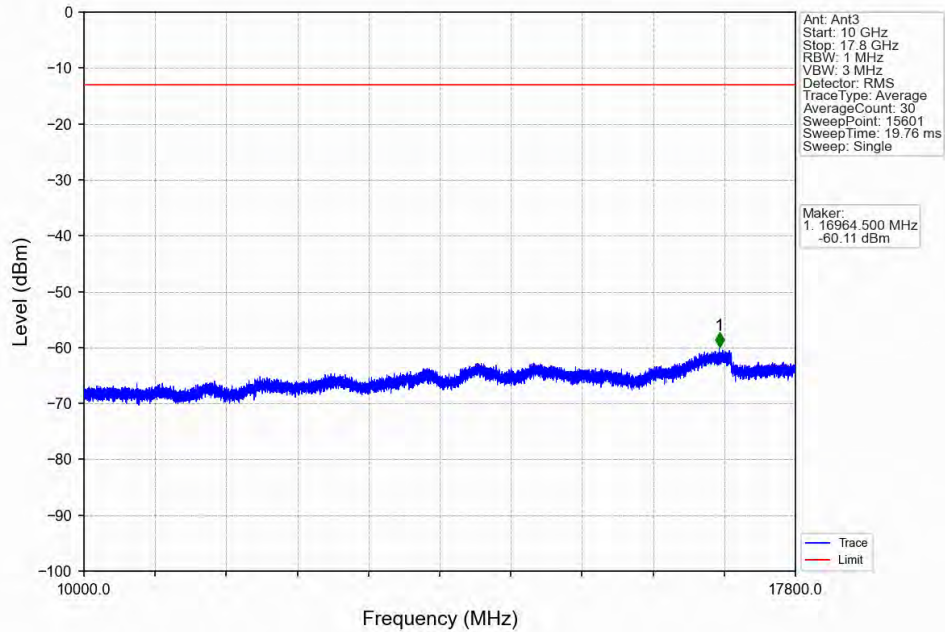
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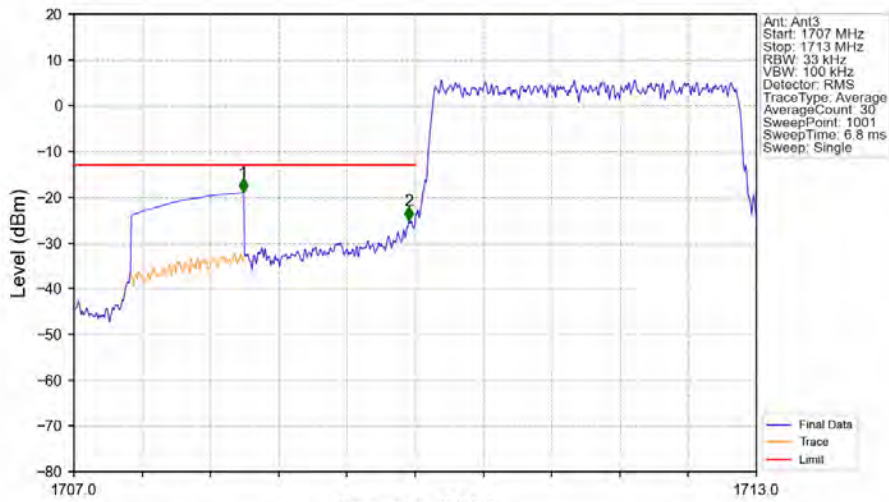
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Rev.: 01

Page: 239 of 392

Band66_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1707 | 1709 | 1 | CHP | 1 | 1708.488 | -19.00 | -13 | Pass |
| 1709 | 1710 | 0.033 | / | 2 | 1709.946 | -25.10 | -13 | Pass |
| 1710 | 1713 | 0.033 | / | / | / | / | / | / |



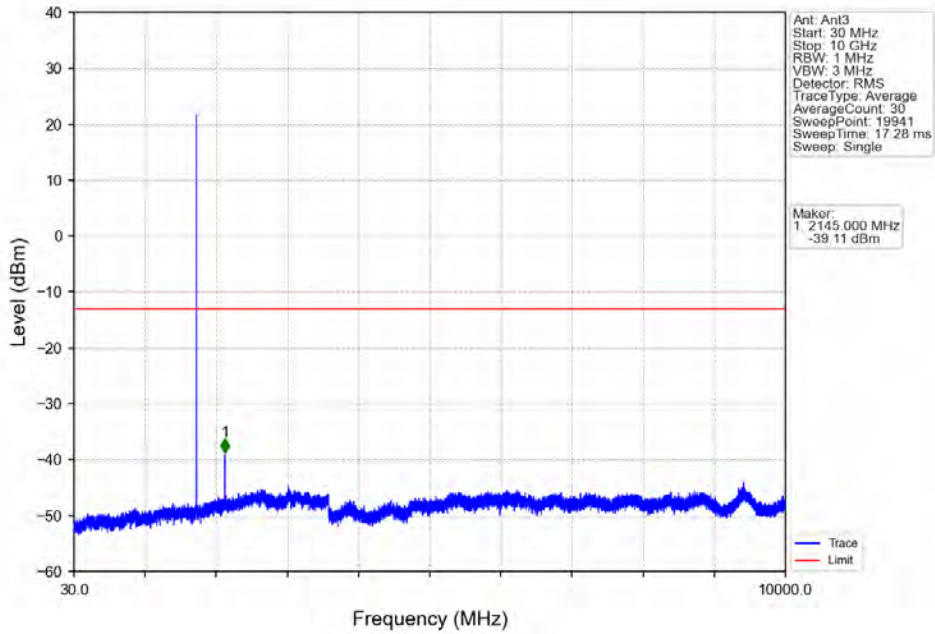
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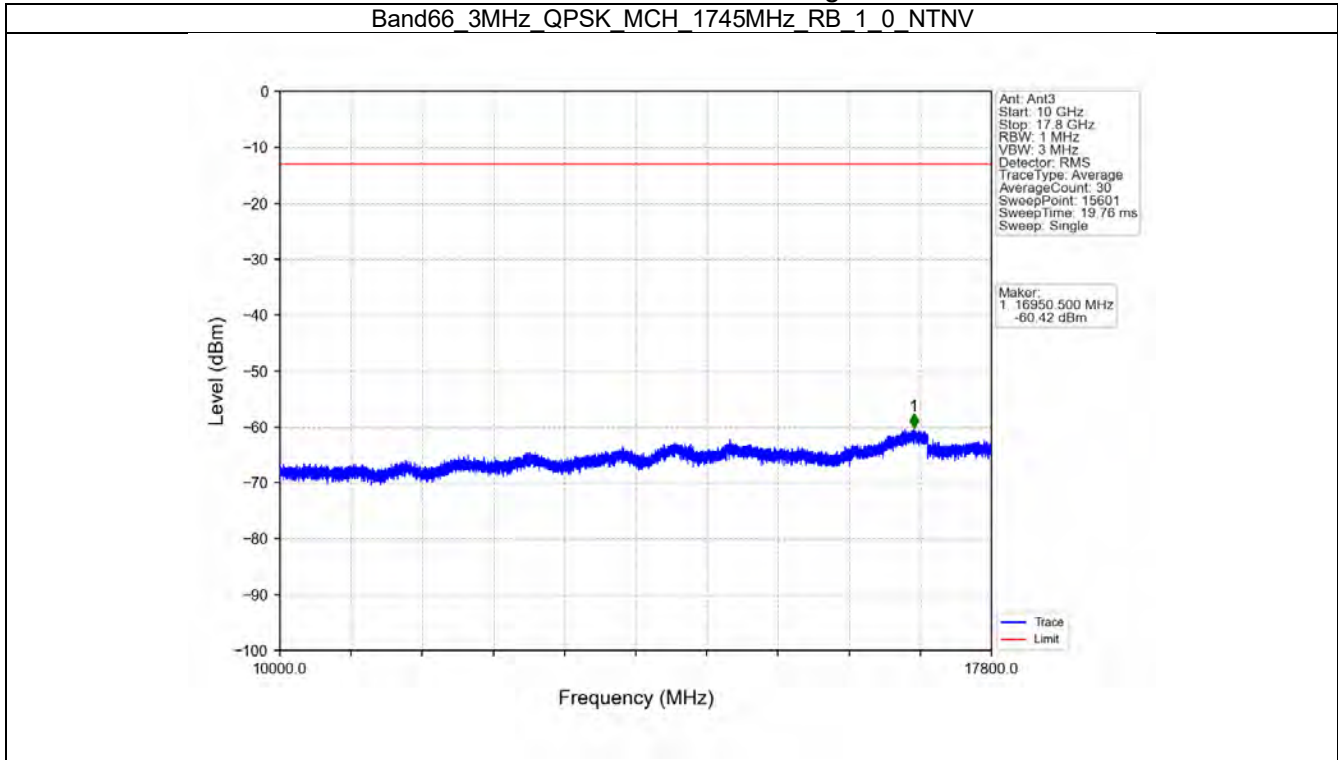


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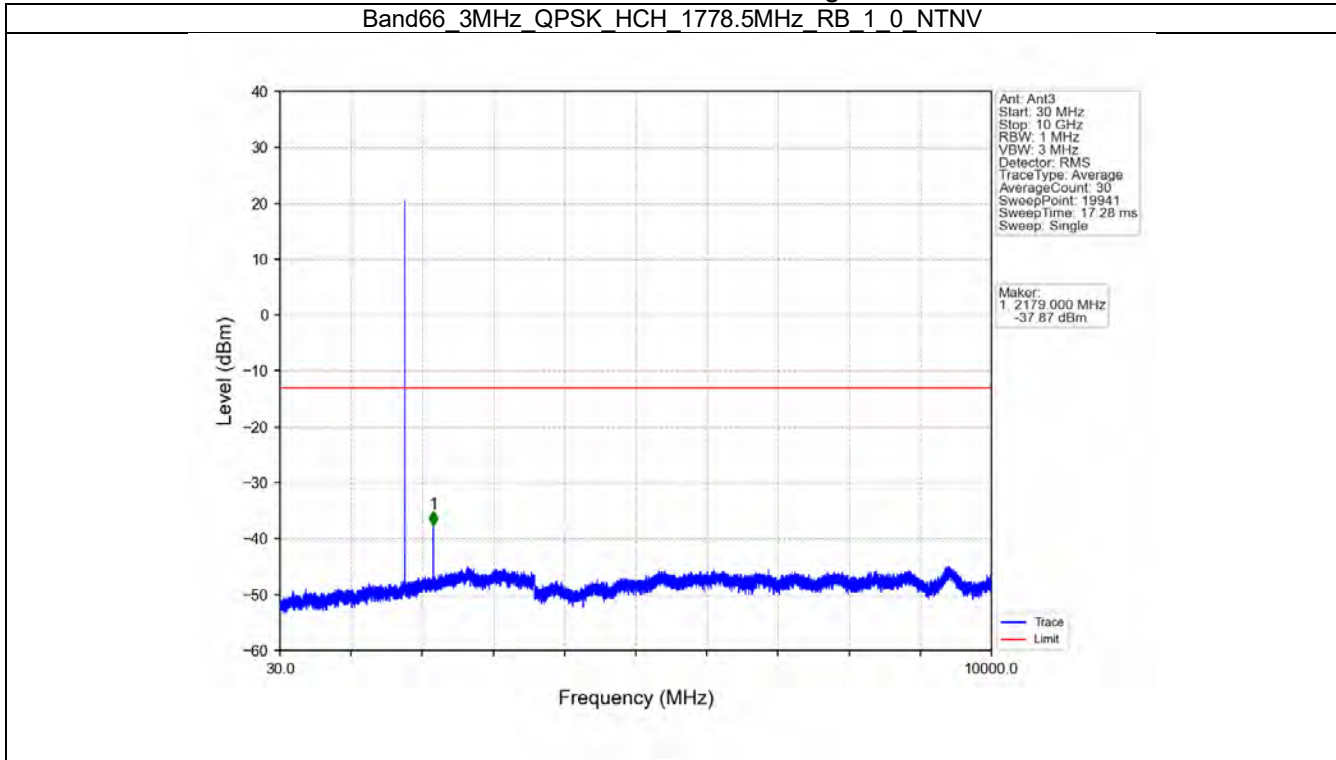


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Band66_3MHz_QPSK_HCH_1778.5MHz_RB_1_0_NTNV

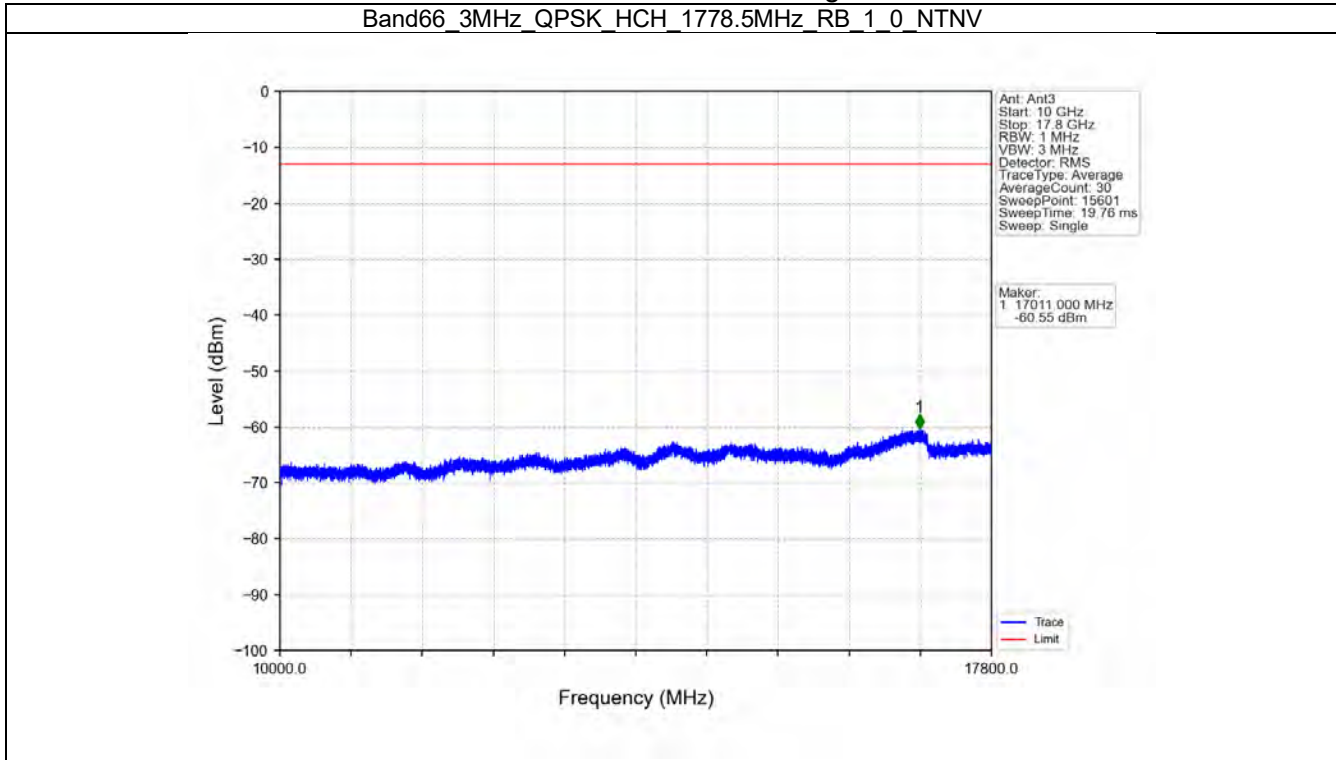


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Band66_3MHz_QPSK_HCH_1778.5MHz_RB_1_0_NTNV



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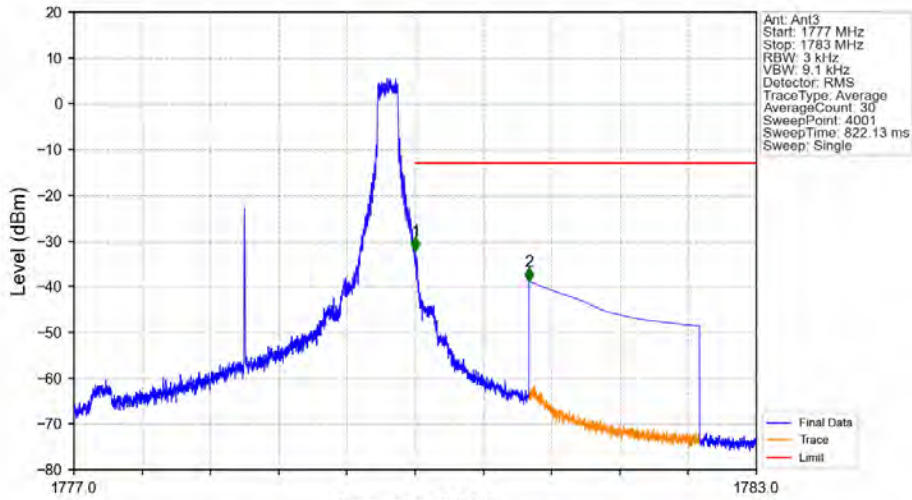
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 244 of 392

Band66_3MHz_QPSK_HCH_1778.5MHz_RB_1_14_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1777 | 1780 | 0.003 | / | / | / | / | / | / |
| 1780 | 1781 | 0.003 | / | 1 | 1780.003 | -32.25 | -13 | Pass |
| 1781 | 1783 | 1 | CHP | 2 | 1781.001 | -38.85 | -13 | Pass |



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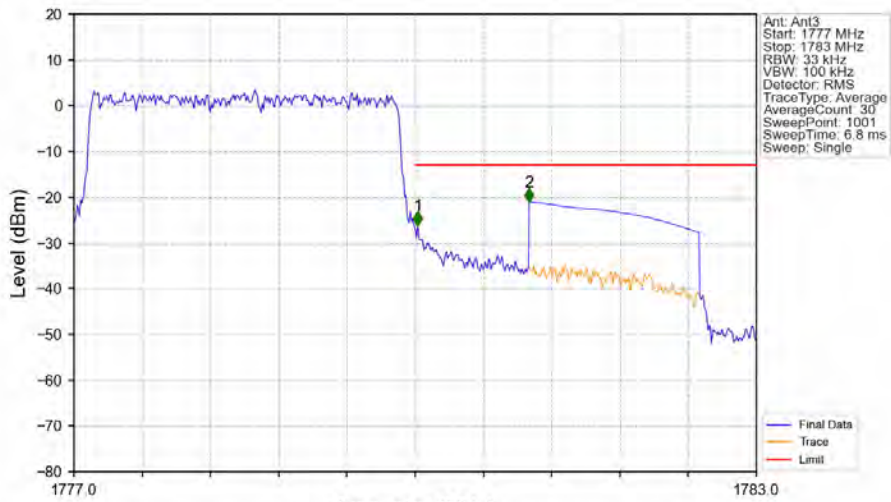
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 245 of 392

Band66_3MHz_QPSK_HCH_1778.5MHz_RB_15_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1777 | 1780 | 0.033 | / | 1 | 1780.024 | -26.25 | -13 | Pass |
| 1781 | 1783 | 1 | CHP | 2 | 1781.002 | -21.09 | -13 | Pass |



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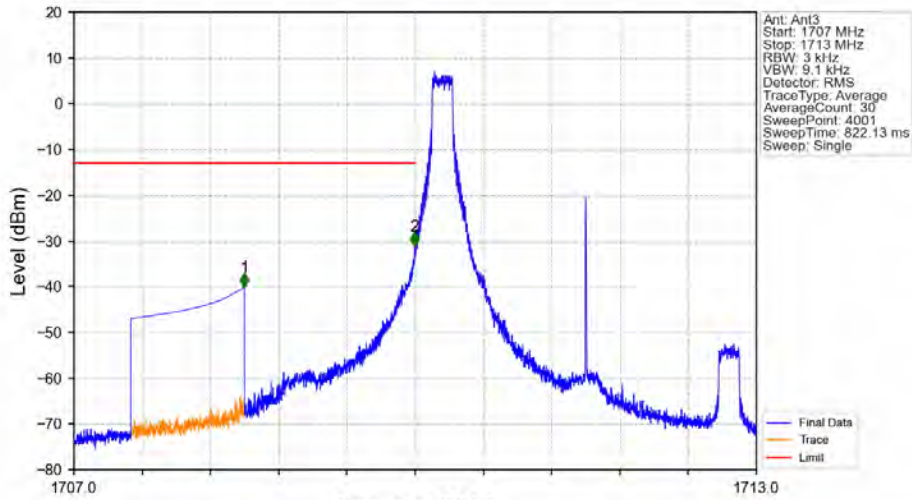
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 246 of 392

Band66_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1707 | 1709 | 1 | CHP | 1 | 1708.498 | -40.19 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.995 | -31.16 | -13 | Pass |
| 1710 | 1713 | 0.003 | / | / | / | / | / | / |



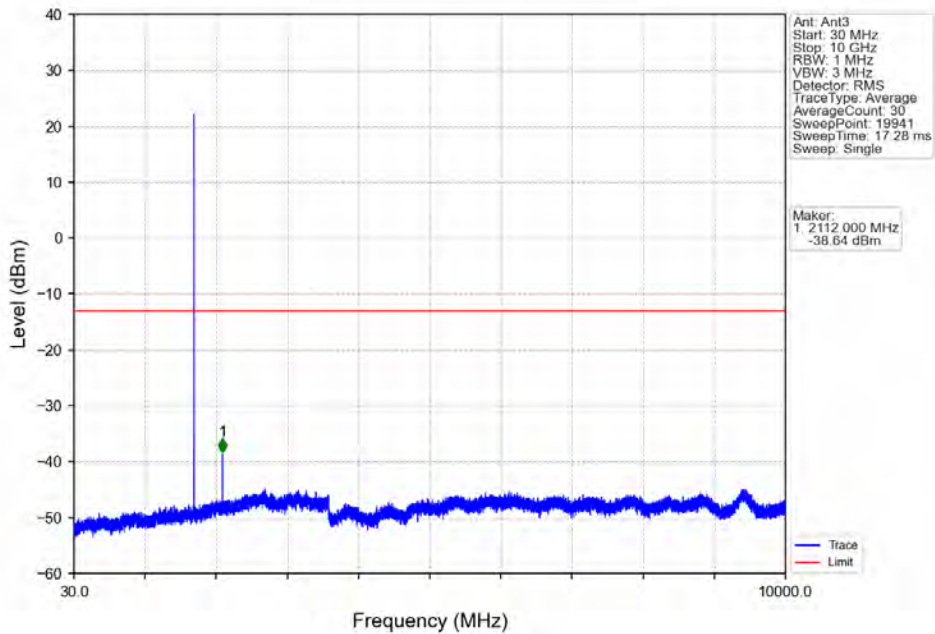
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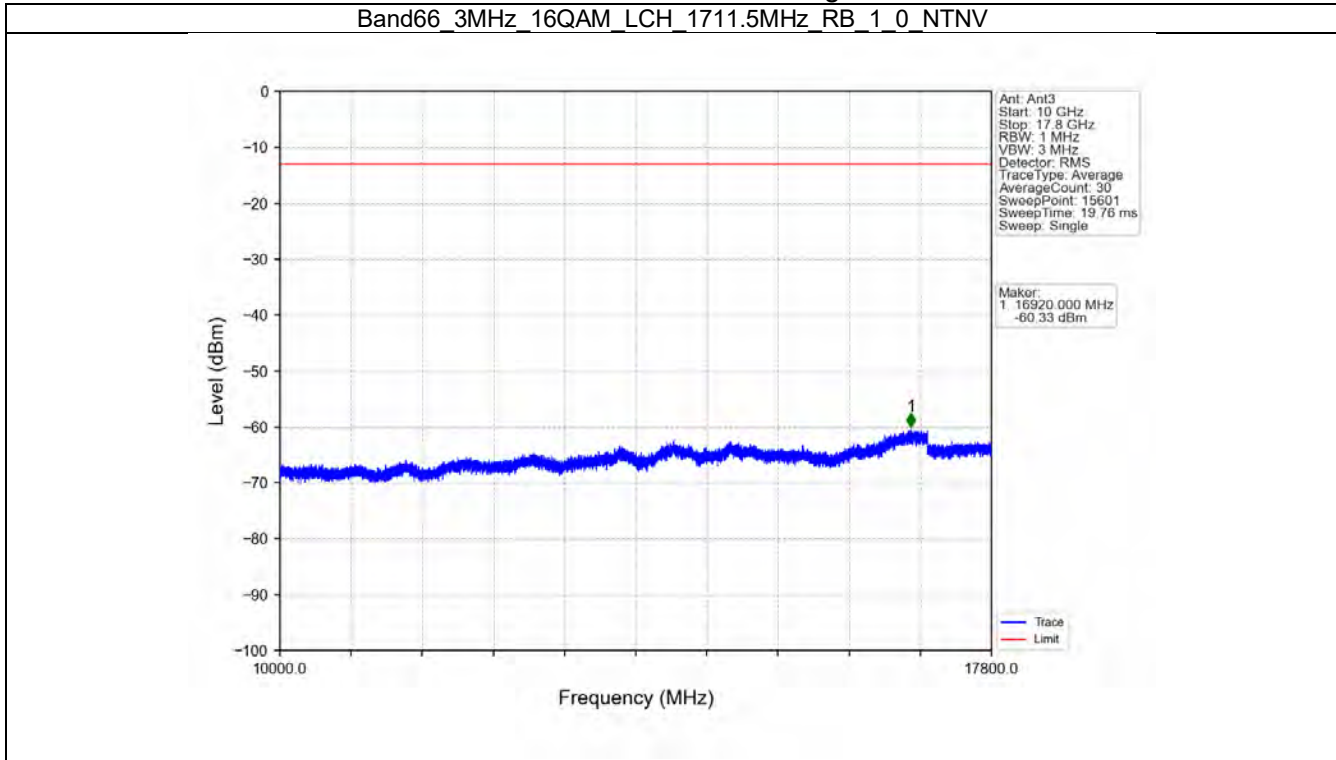


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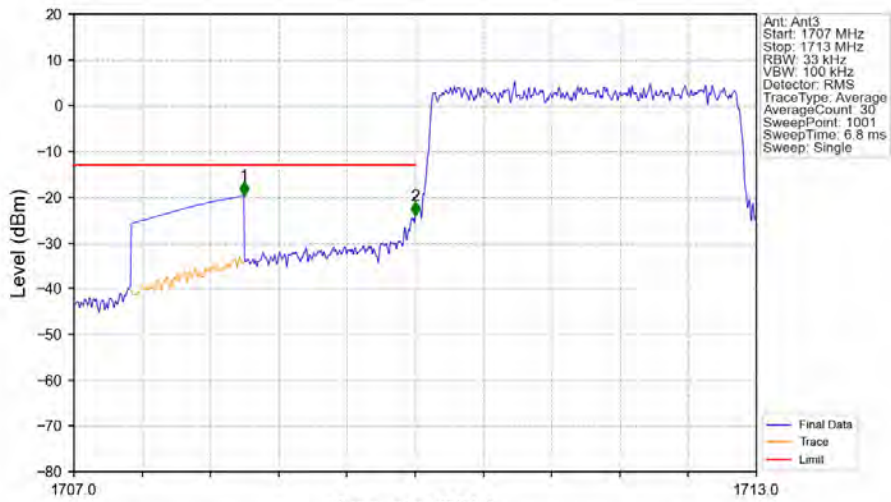


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Band66_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1707 | 1709 | 1 | CHP | 1 | 1708.494 | -19.75 | -13 | Pass |
| 1709 | 1710 | 0.033 | / | 2 | 1710.000 | -24.13 | -13 | Pass |
| 1710 | 1713 | 0.033 | / | / | / | / | / | / |



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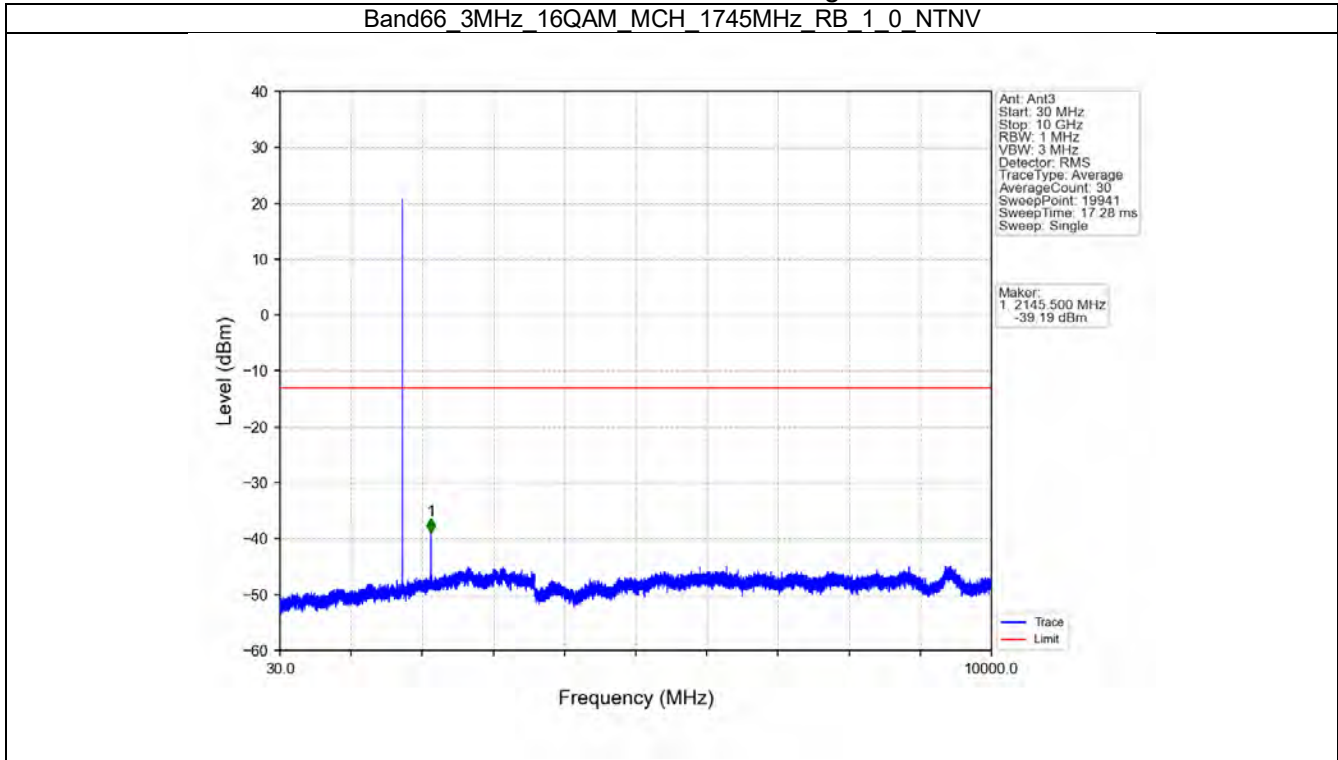
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Rev.: 01

Page: 250 of 392

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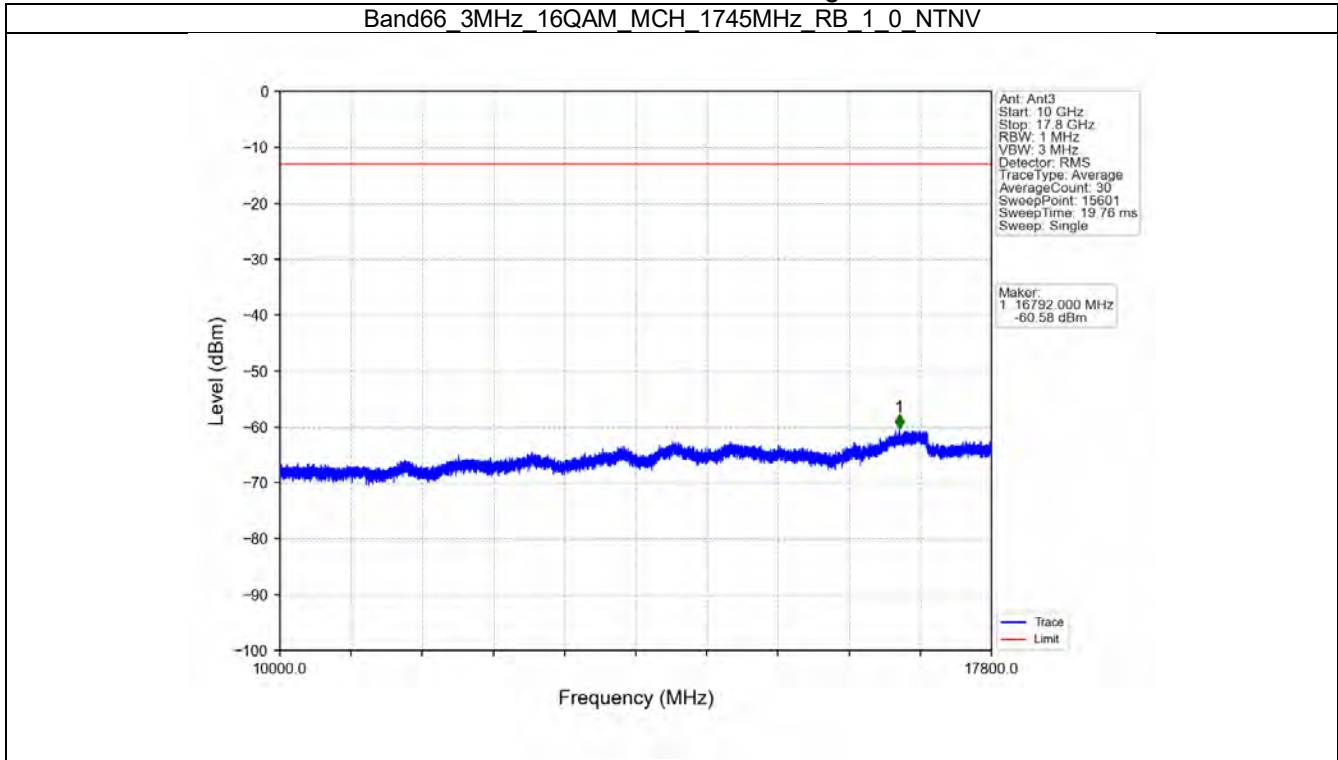


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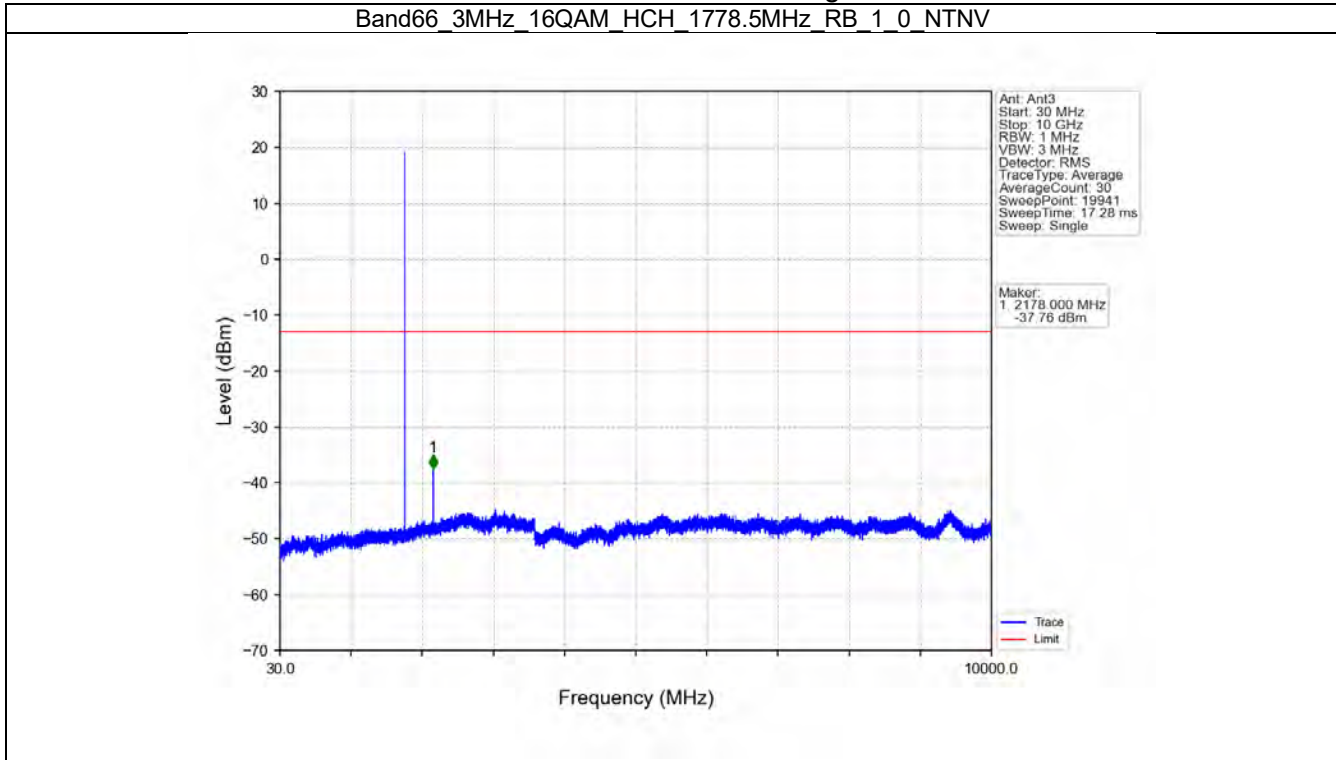


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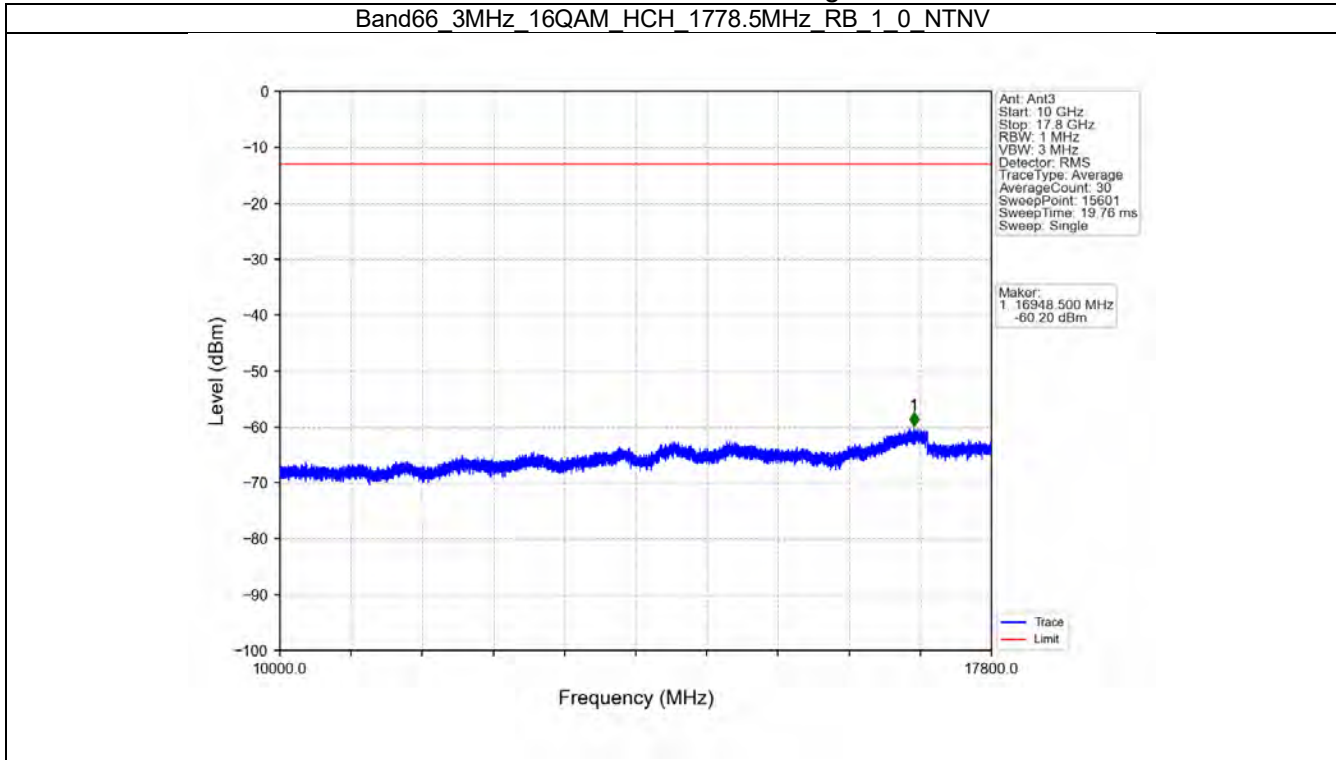
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 253 of 392

Band66_3MHz_16QAM_HCH_1778.5MHz_RB_1_0_NTNV



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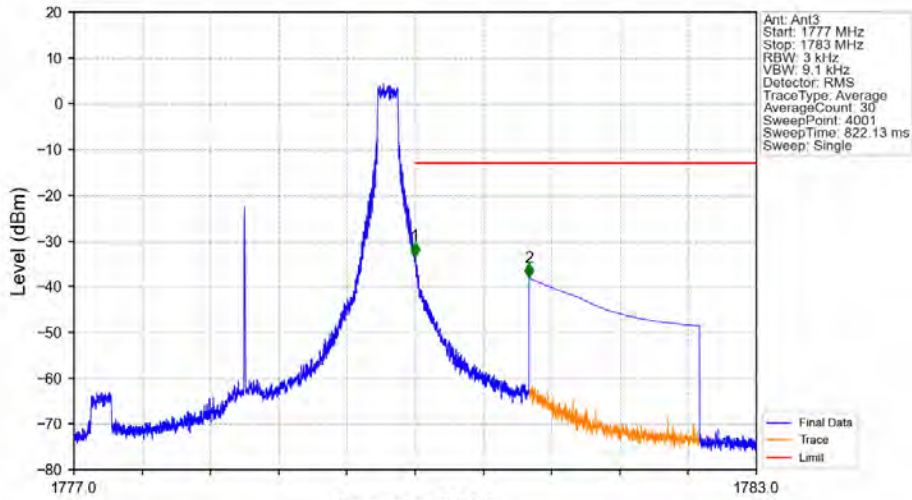
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 254 of 392

Band66_3MHz_16QAM_HCH_1778.5MHz_RB_1_14_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1777 | 1780 | 0.003 | / | / | / | / | / | / |
| 1780 | 1781 | 0.003 | / | 1 | 1780.000 | -33.38 | -13 | Pass |
| 1781 | 1783 | 1 | CHP | 2 | 1781.001 | -38.10 | -13 | Pass |



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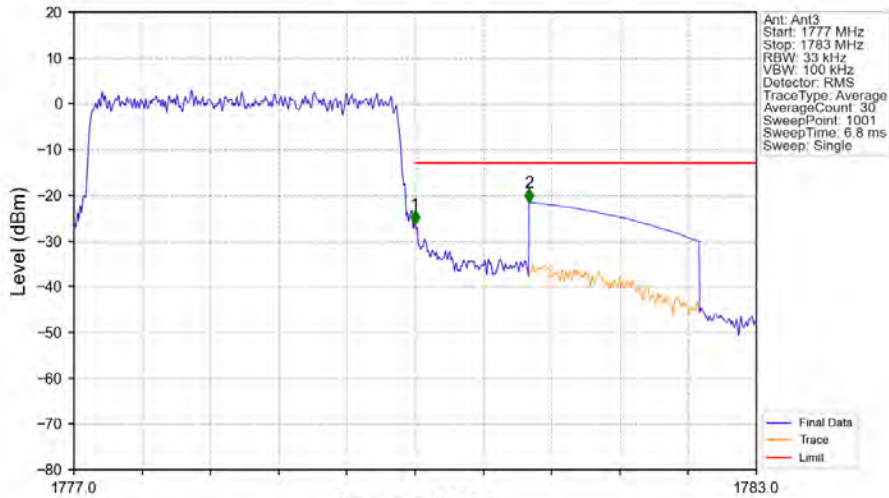
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 255 of 392

Band66_3MHz_16QAM_HCH_1778.5MHz_RB_15_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1777 | 1780 | 0.033 | / | / | / | / | / | / |
| 1780 | 1781 | 0.033 | / | 1 | 1780.000 | -26.35 | -13 | Pass |
| 1781 | 1783 | 1 | CHP | 2 | 1781.002 | -21.60 | -13 | Pass |



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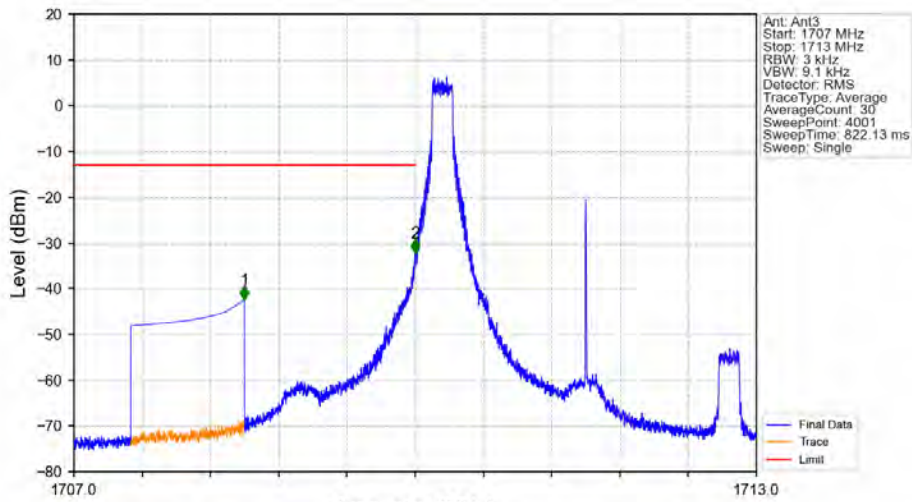
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 256 of 392

Band66_3MHz_64QAM_LCH_1711.5MHz_RB_1_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1707 | 1709 | 1 | CHP | 1 | 1708.498 | -42.45 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1710.000 | -32.26 | -13 | Pass |
| 1710 | 1713 | 0.003 | / | / | / | / | / | / |

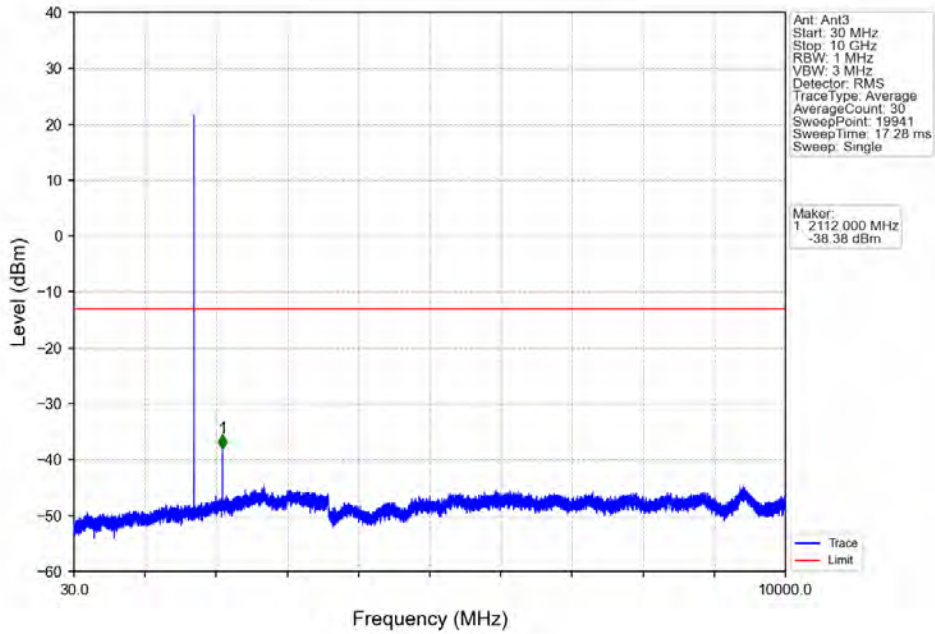


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Band66_3MHz_64QAM_LCH_1711.5MHz_RB_1_0_NTNV

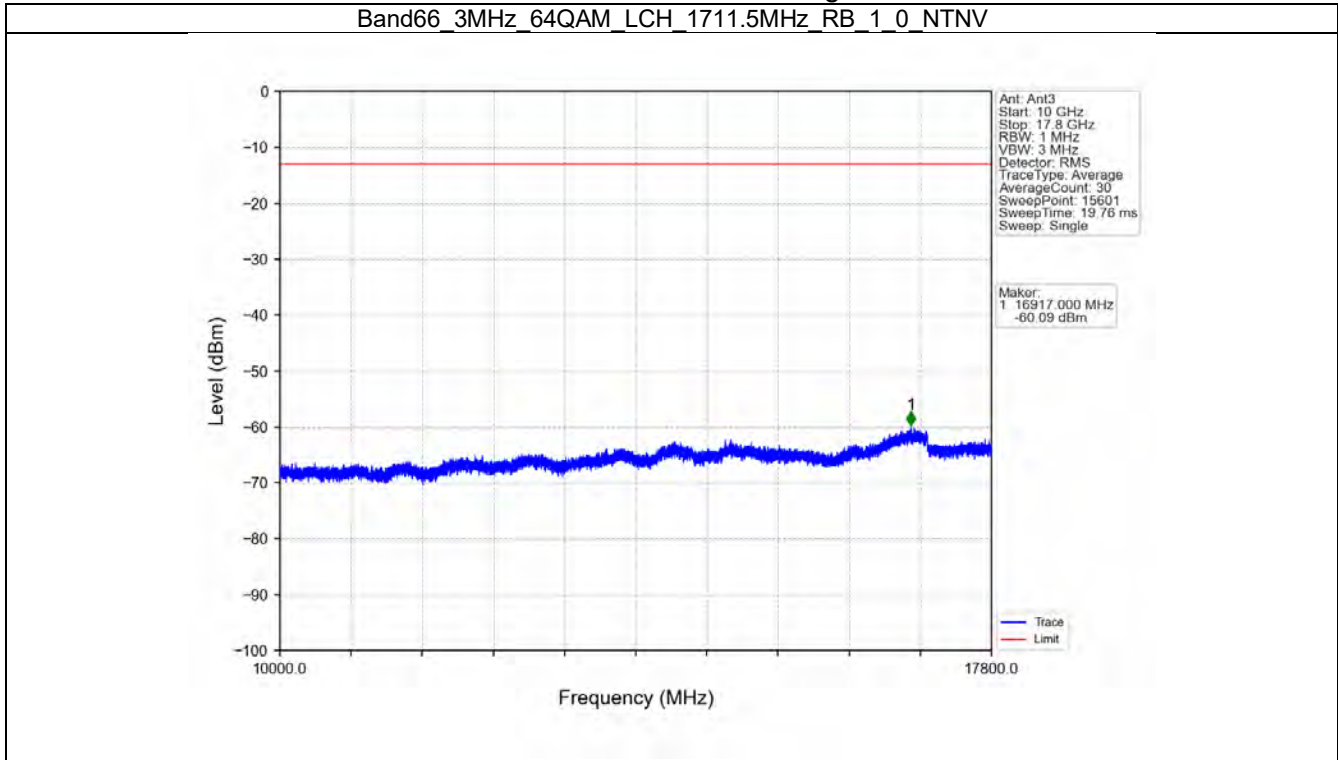


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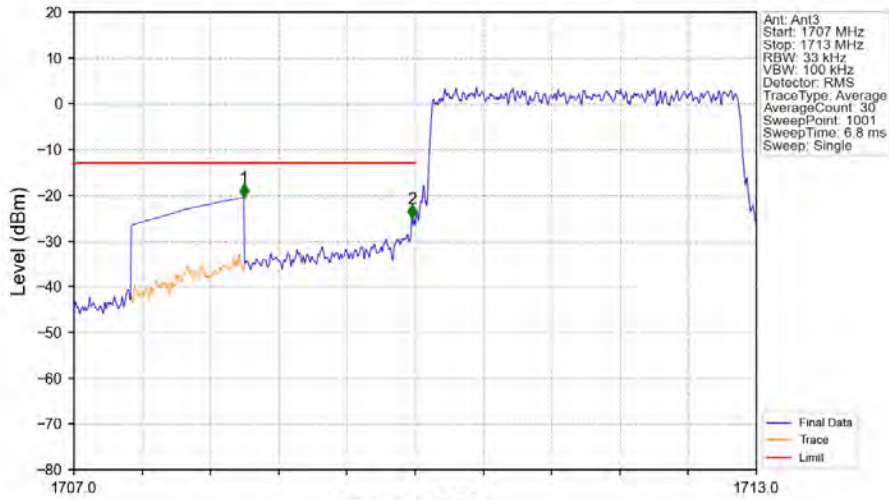


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Band66_3MHz_64QAM_LCH_1711.5MHz_RB_15_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1707 | 1709 | 1 | CHP | 1 | 1708.494 | -20.57 | -13 | Pass |
| 1709 | 1710 | 0.033 | / | 2 | 1709.970 | -25.20 | -13 | Pass |
| 1710 | 1713 | 0.033 | / | / | / | / | / | / |

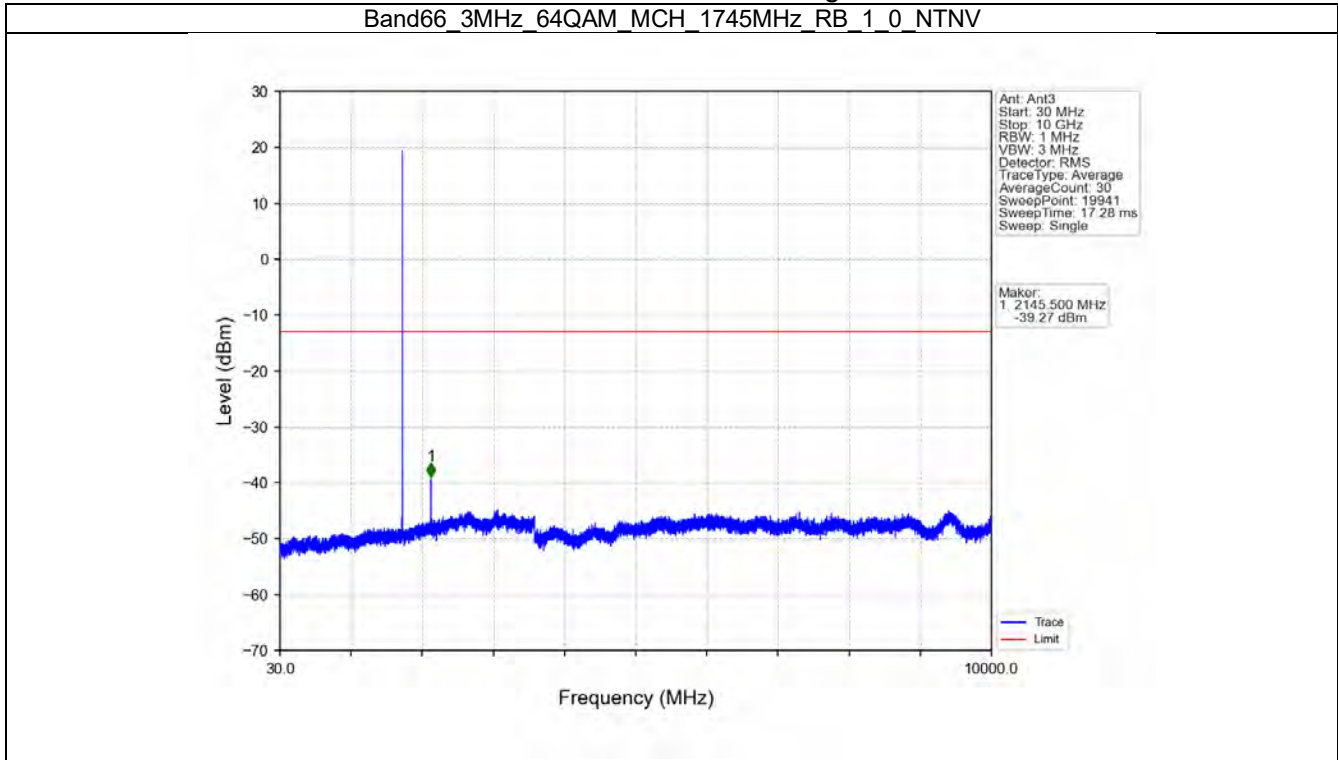


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Band66_3MHz_64QAM_MCH_1745MHz_RB_1_0_NTNV



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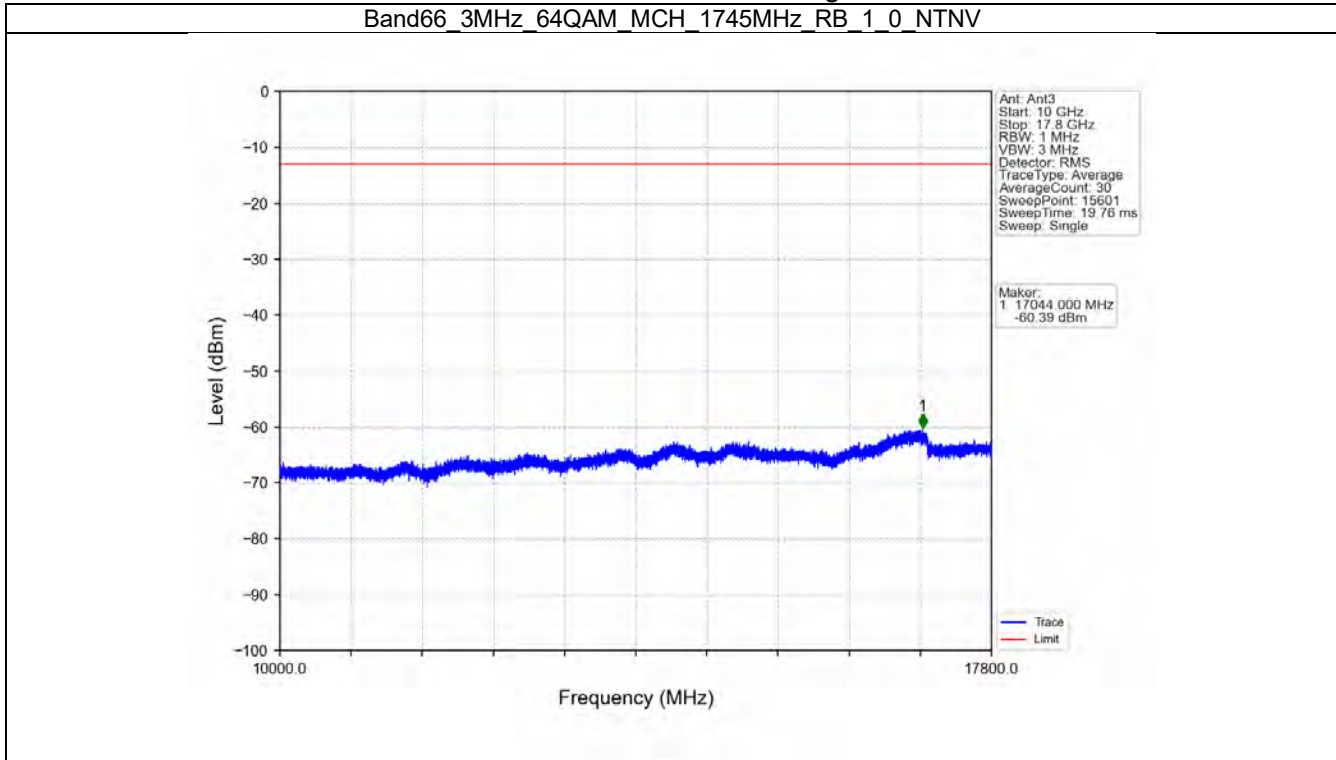
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Rev.: 01

Page: 261 of 392

Band66_3MHz_64QAM_MCH_1745MHz_RB_1_0_NTNV

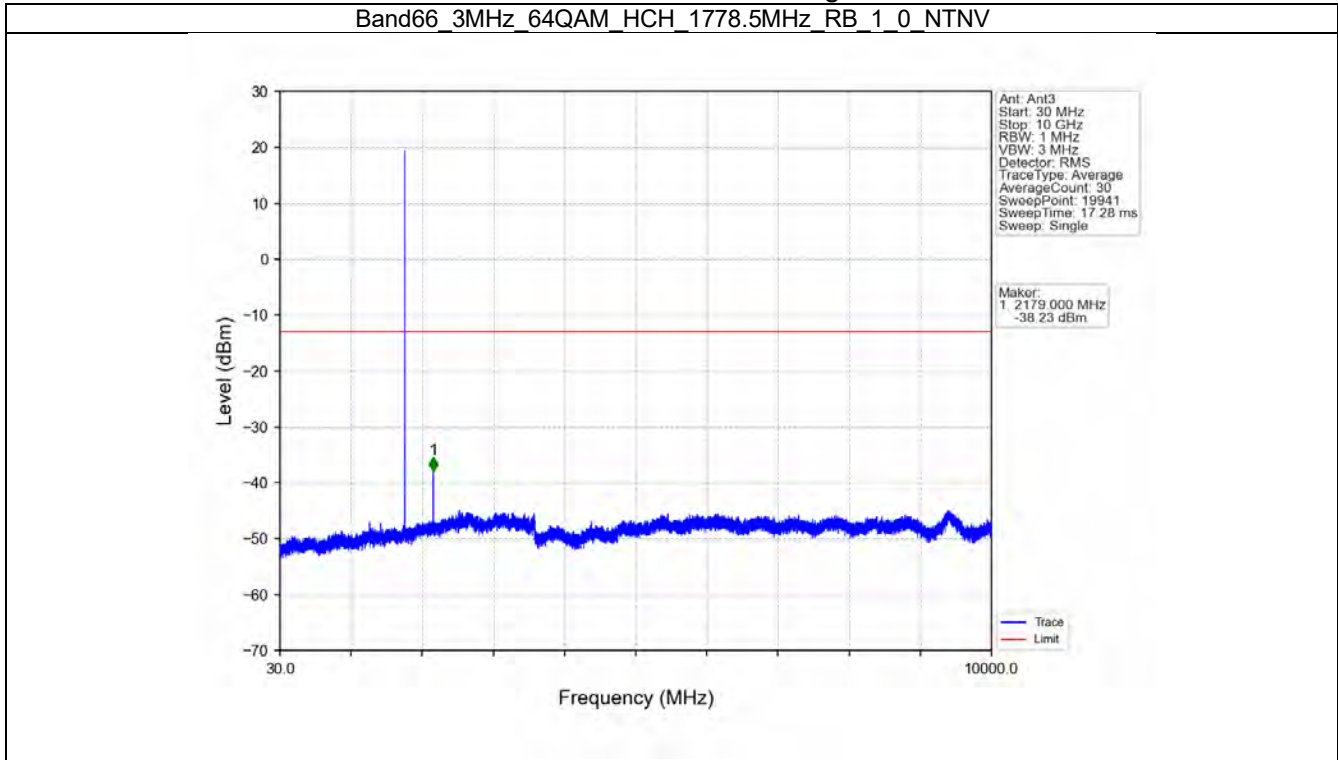


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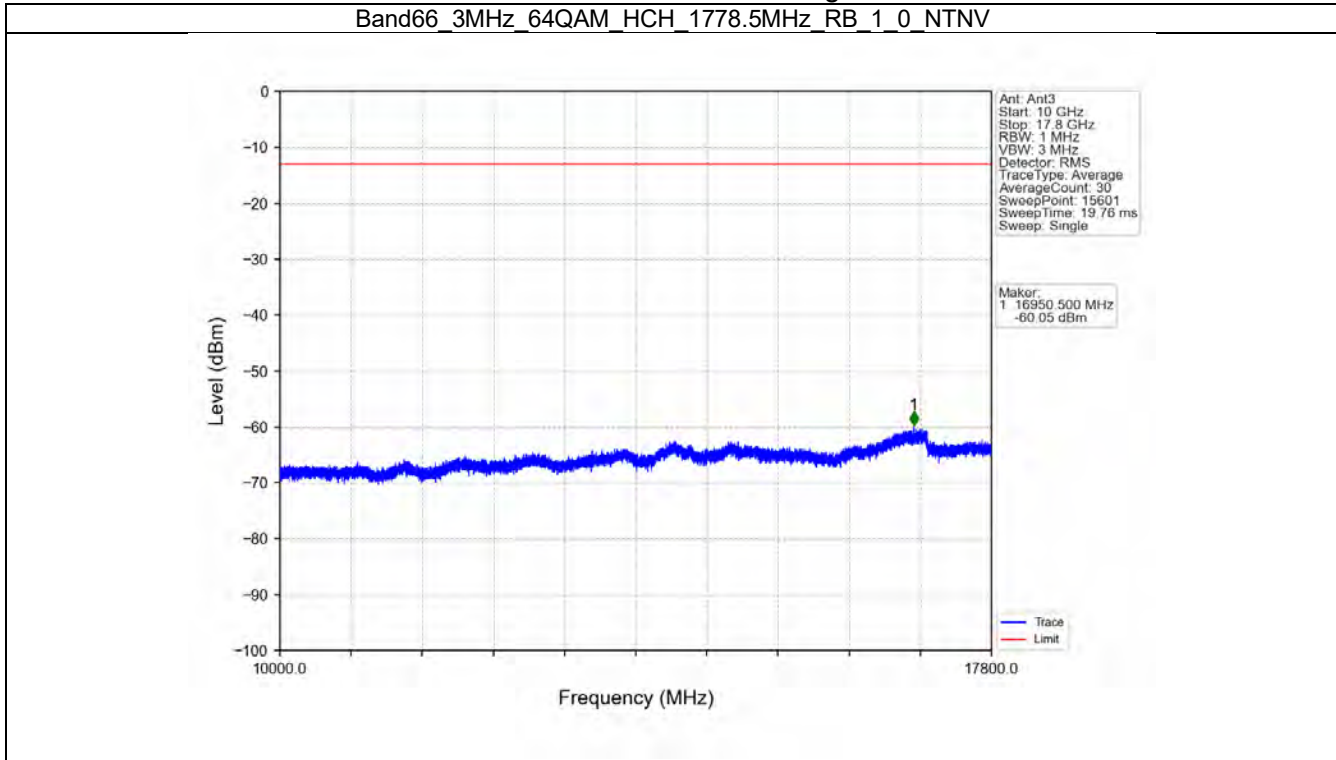


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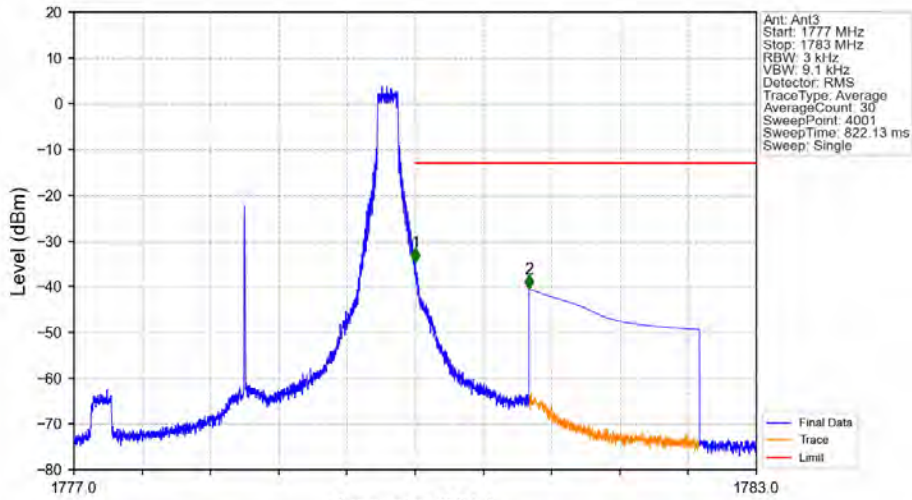
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 264 of 392

Band66_3MHz_64QAM_HCH_1778.5MHz_RB_1_14_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1777 | 1780 | 0.003 | / | / | / | / | / | / |
| 1780 | 1781 | 0.003 | / | 1 | 1780.002 | -34.62 | -13 | Pass |
| 1781 | 1783 | 1 | CHP | 2 | 1781.001 | -40.48 | -13 | Pass |



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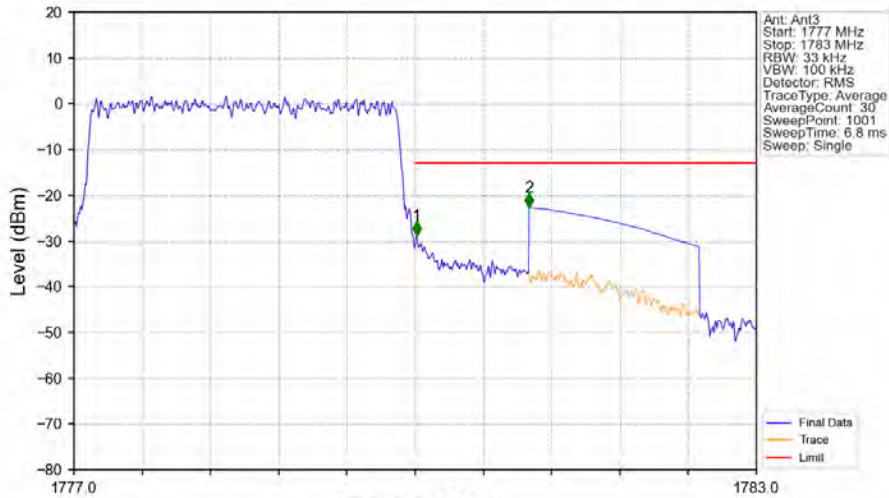
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 265 of 392

Band66_3MHz_64QAM_HCH_1778.5MHz_RB_15_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1777 | 1780 | 0.033 | / | / | / | / | / | / |
| 1780 | 1781 | 0.033 | / | 1 | 1780.012 | -28.90 | -13 | Pass |
| 1781 | 1783 | 1 | CHP | 2 | 1781.002 | -22.70 | -13 | Pass |



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5.3 B66_5MHz

5.3.1 Test Result

| Band: 66 / Bandwidth: 5MHz / NTNV | | | | | | |
|-----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1712.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 1777.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | | | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1712.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 1777.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | | | 0 | Refer To Test Graph | | Pass |
| 64QAM | 1712.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 1777.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | | | 0 | Refer To Test Graph | | Pass |

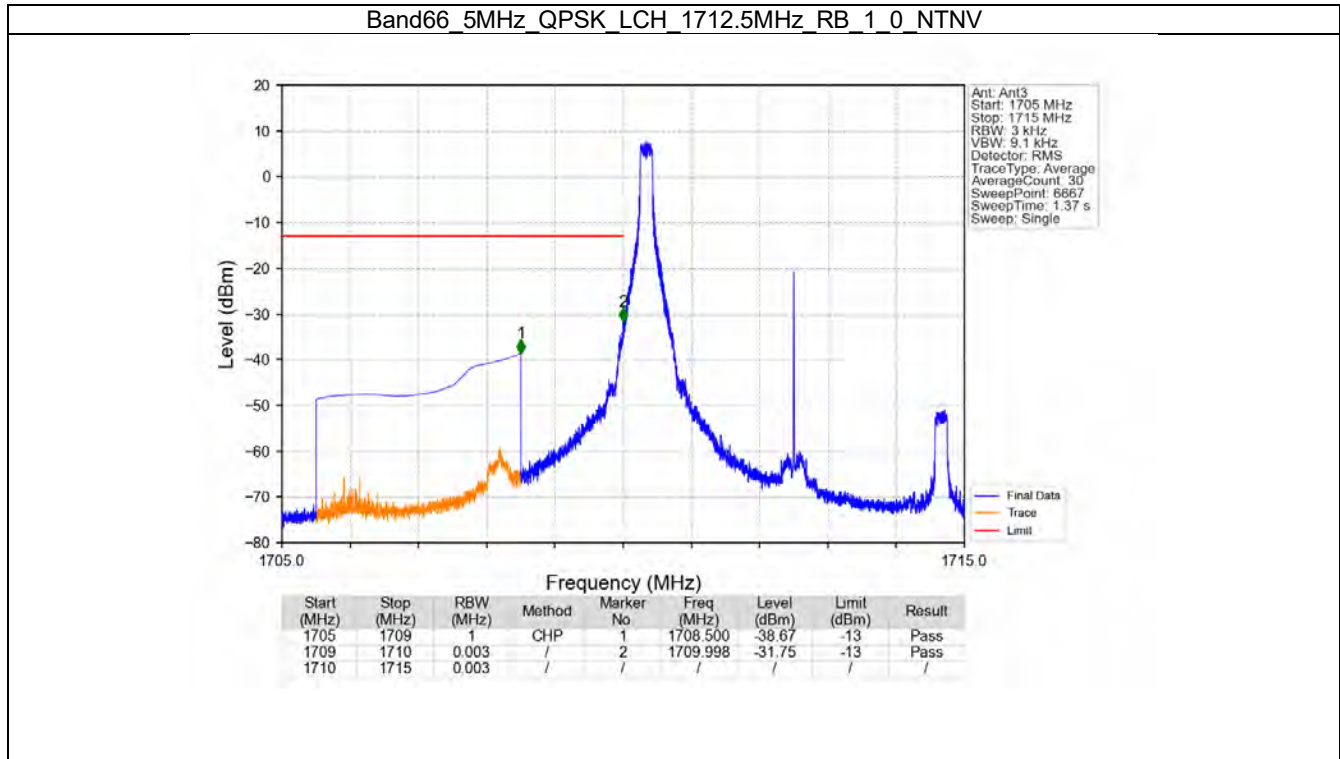


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5.3.2 Test Graph

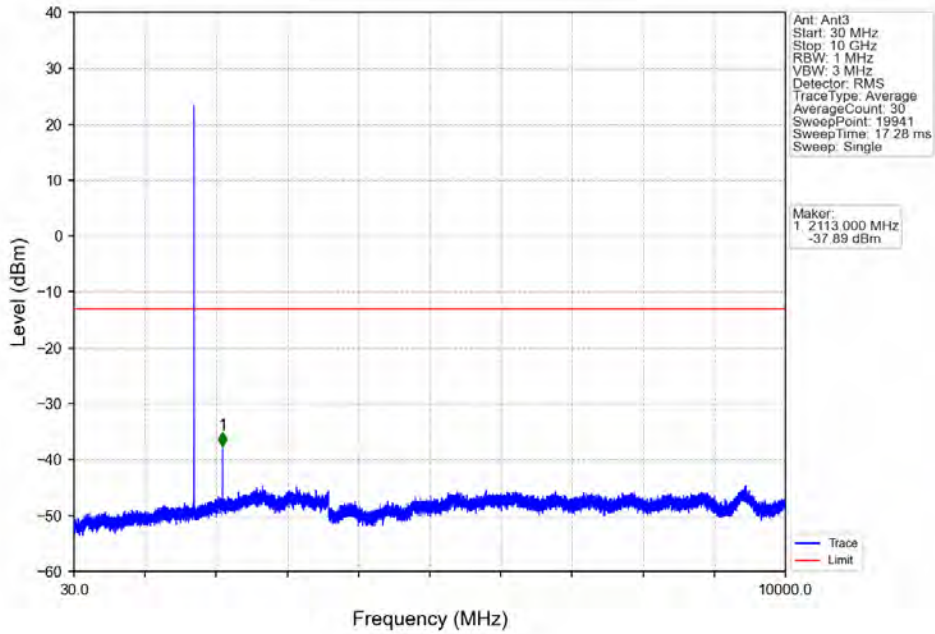


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Band66_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV



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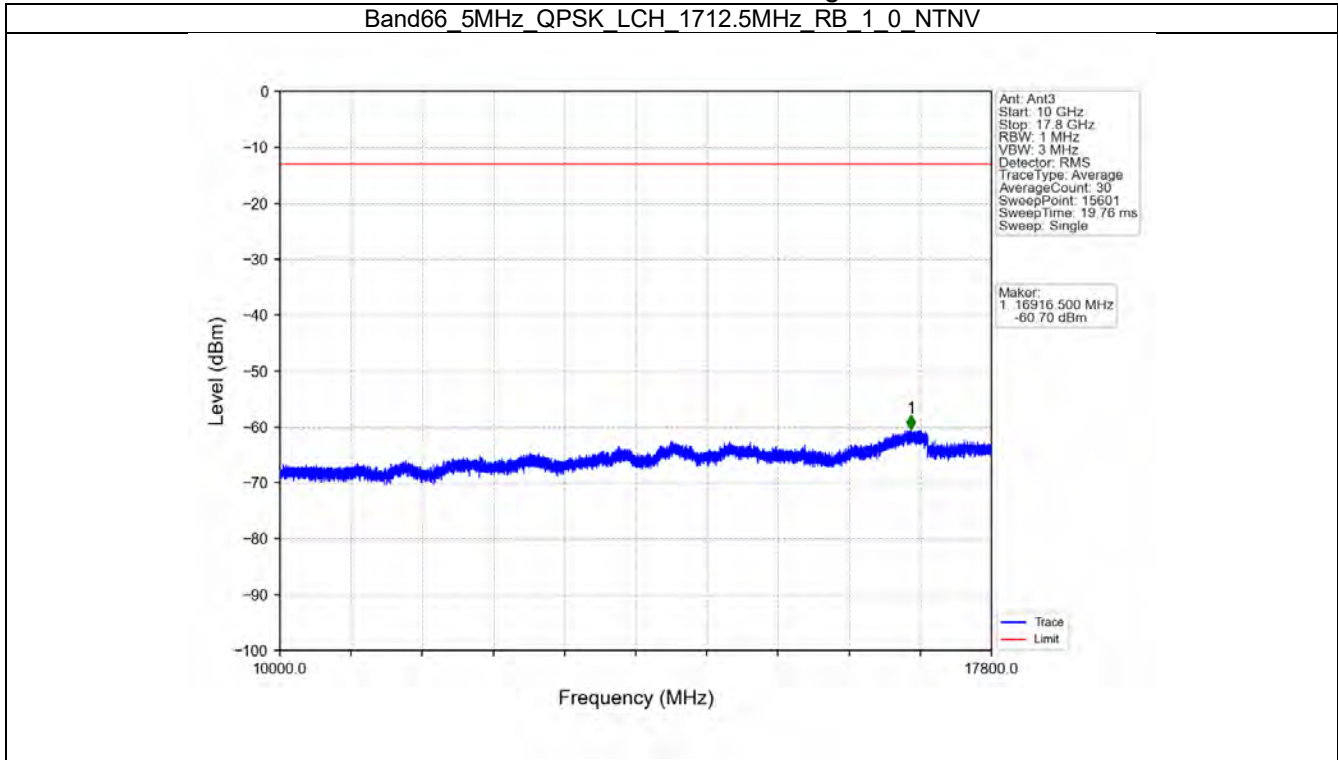
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 269 of 392

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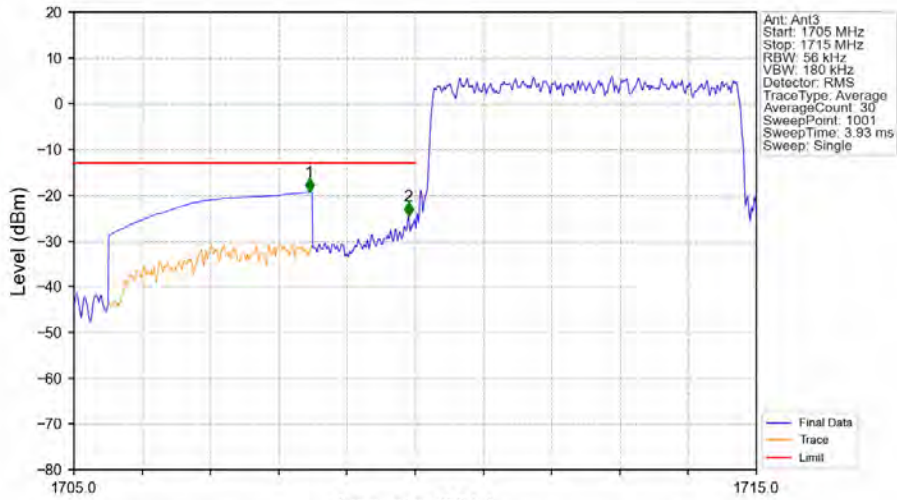
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Page: 270 of 392

Band66_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1705 | 1709 | 1 | CHP | 1 | 1708.450 | -19.38 | -13 | Pass |
| 1709 | 1710 | 0.056 | / | 2 | 1709.900 | -24.64 | -13 | Pass |
| 1710 | 1715 | 0.056 | / | / | / | / | / | / |



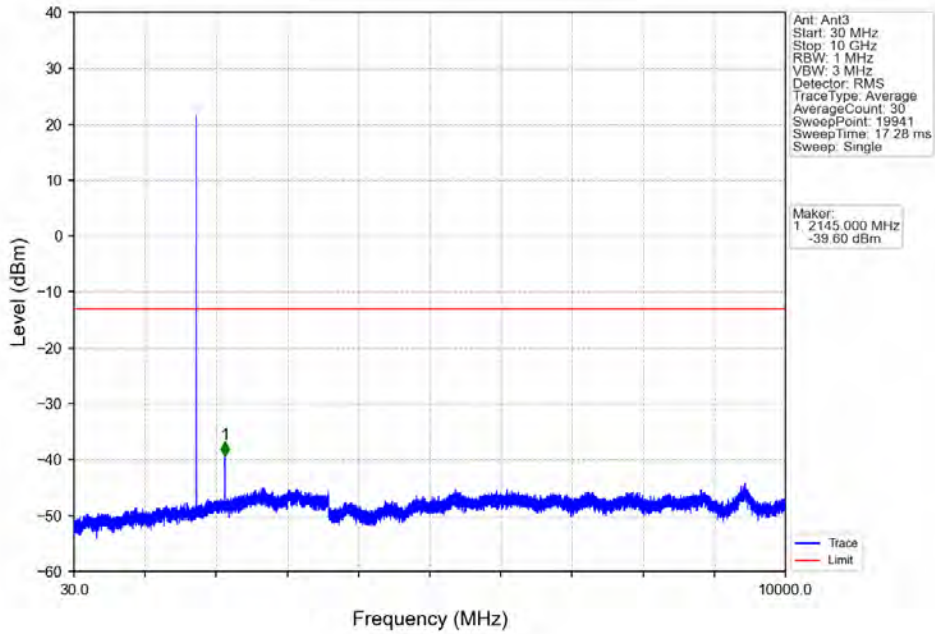
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Band66_5MHz_QPSK_MCH_1745MHz_RB_1_0_NTNV



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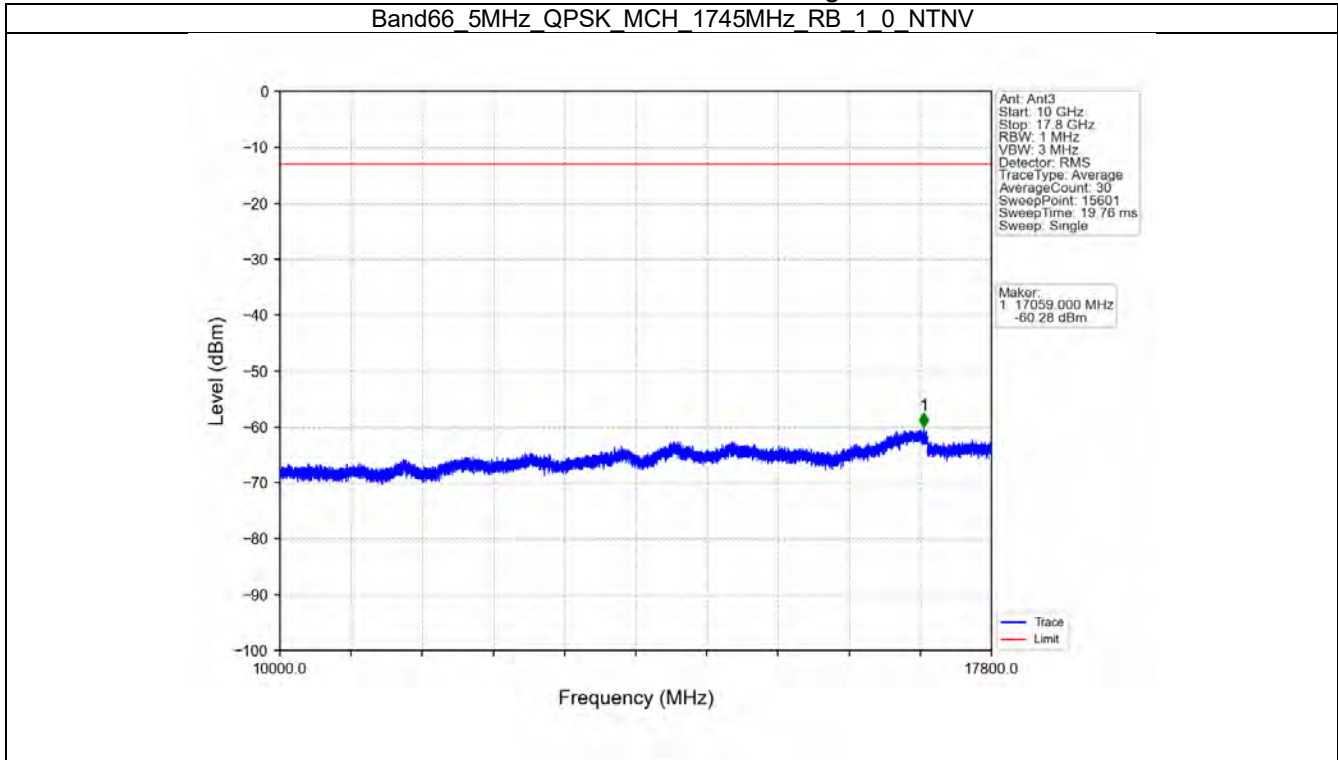
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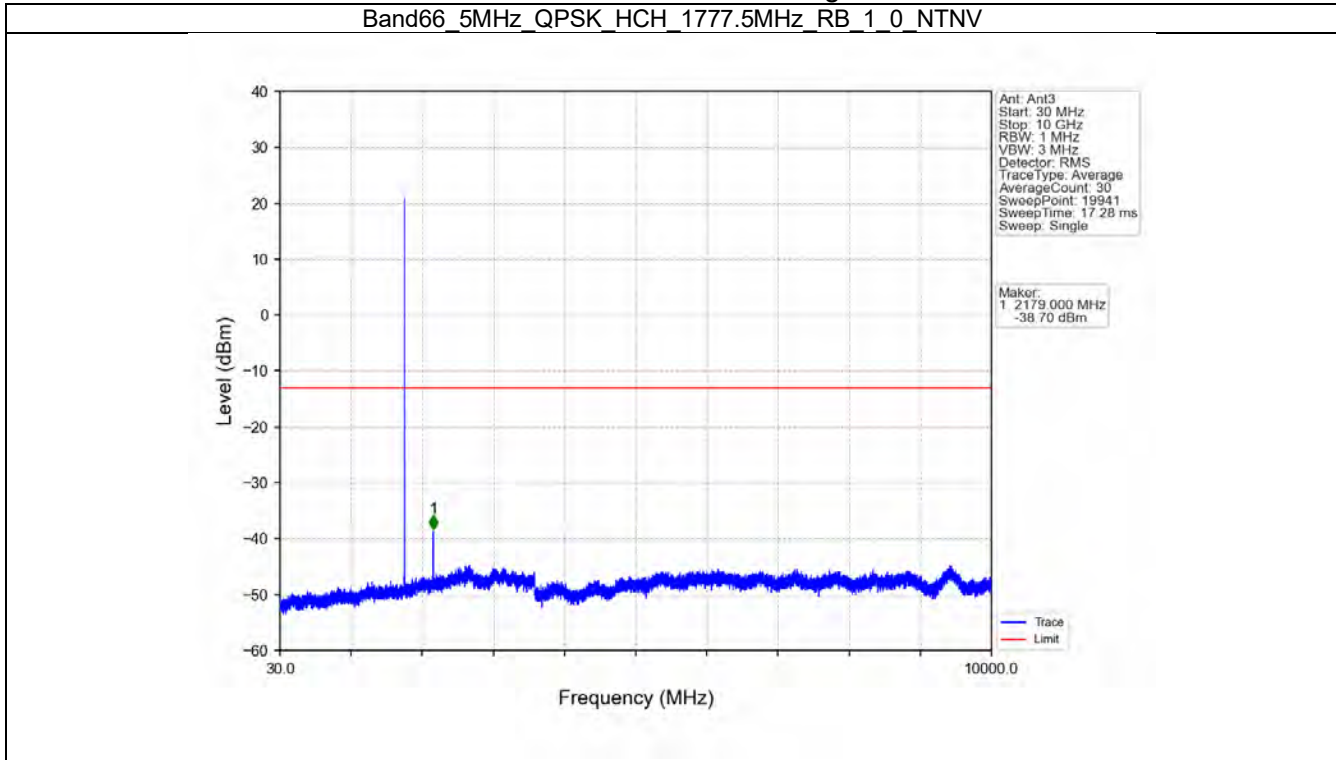


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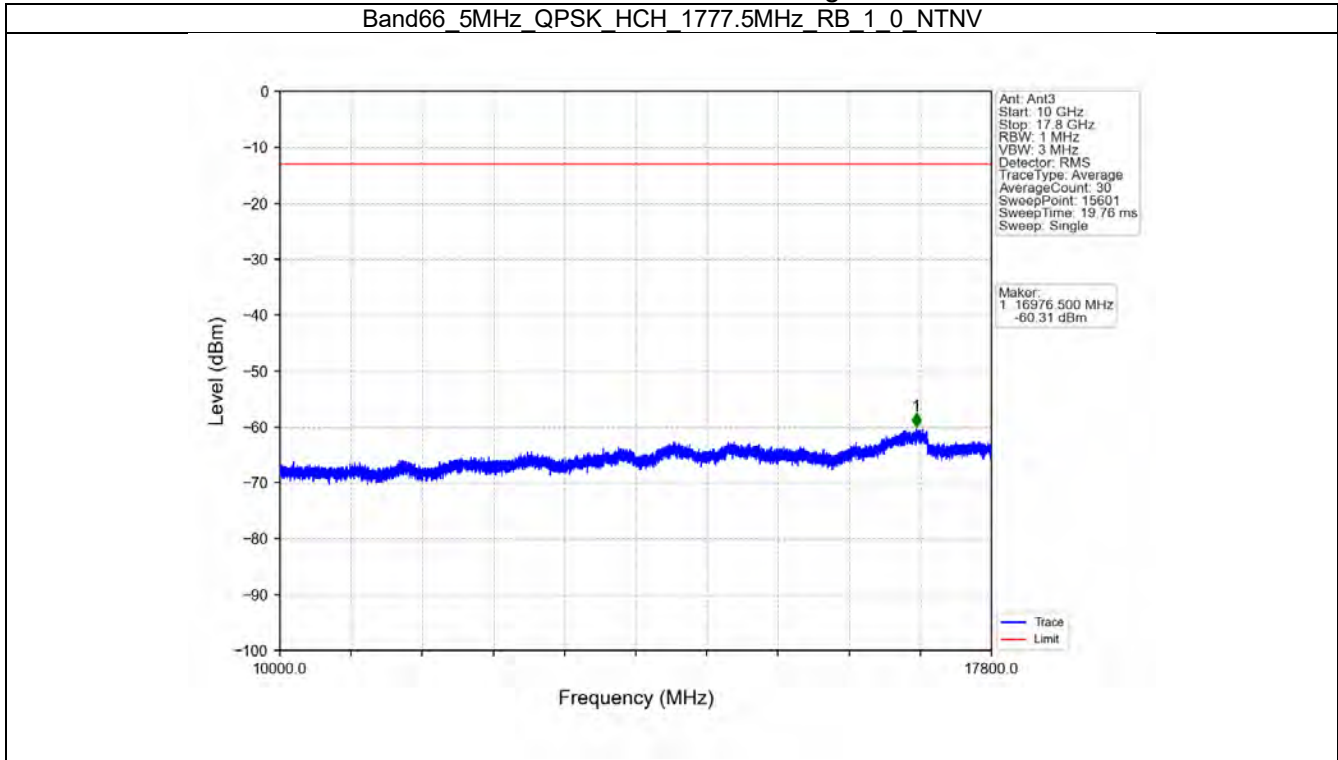


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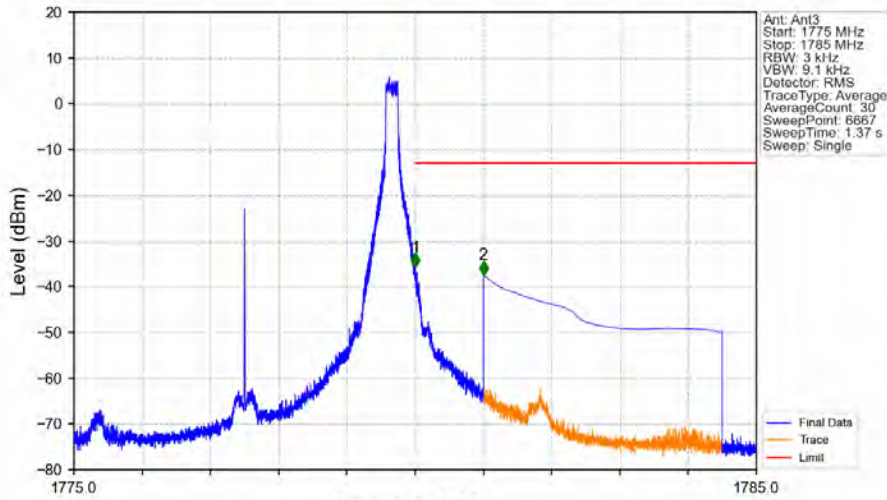
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Rev.: 01

Page: 275 of 392

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| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1775 | 1780 | 0.003 | / | 1 | 1780.002 | -35.68 | -13 | Pass |
| 1781 | 1785 | 1 | CHP | 2 | 1781.001 | -37.41 | -13 | Pass |



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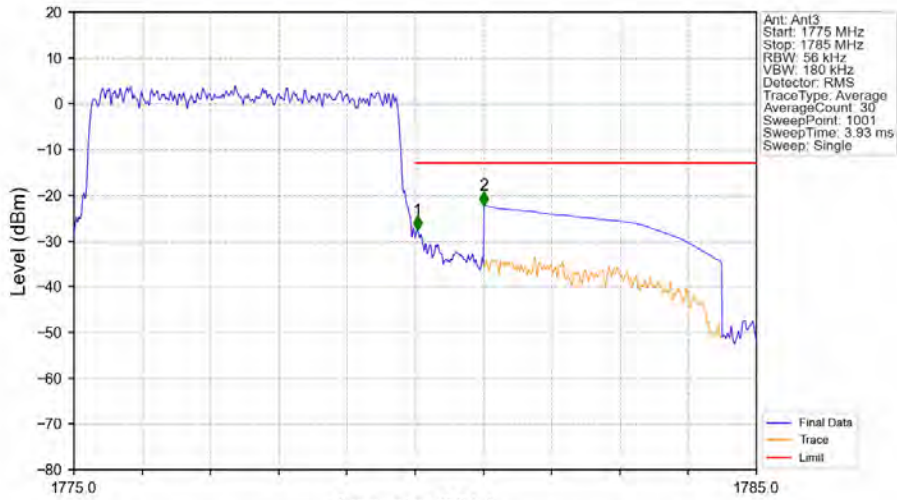
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Rev.: 01

Page: 276 of 392

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| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1775 | 1780 | 0.056 | / | / | / | / | / | / |
| 1780 | 1781 | 0.056 | / | 1 | 1780.030 | -27.62 | -13 | Pass |
| 1781 | 1785 | 1 | CHP | 2 | 1781.010 | -22.27 | -13 | Pass |



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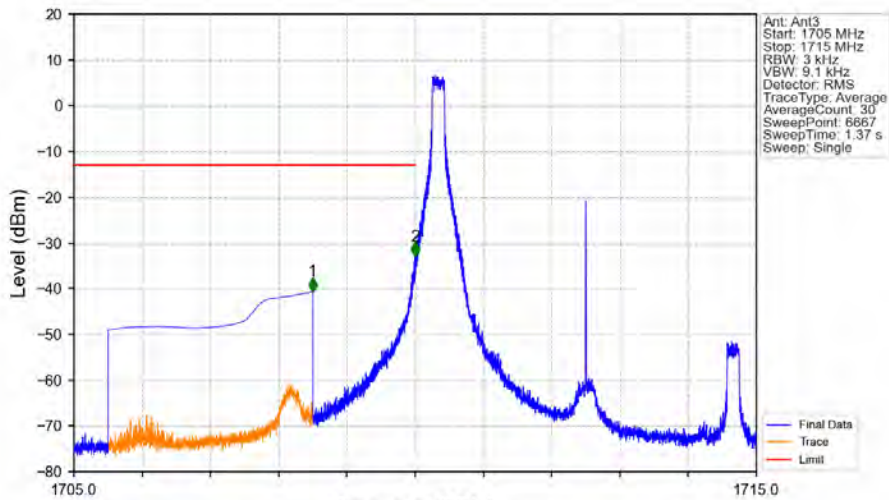
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 277 of 392

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| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1705 | 1709 | 1 | CHP | 1 | 1708.498 | -40.61 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.998 | -32.89 | -13 | Pass |
| 1710 | 1715 | 0.003 | / | / | / | / | / | / |



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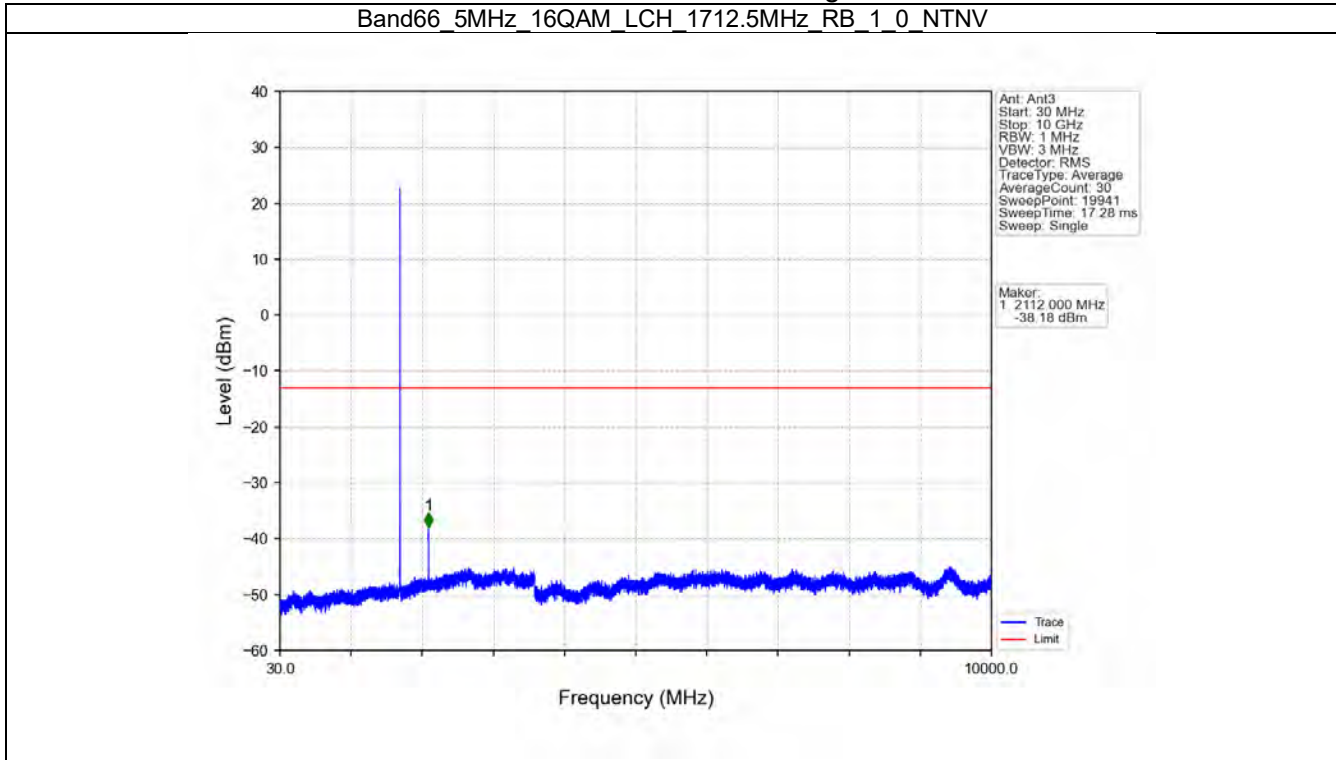
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 278 of 392

Band66_5MHz_16QAM_LCH_1712.5MHz_RB_1_0_NTNV



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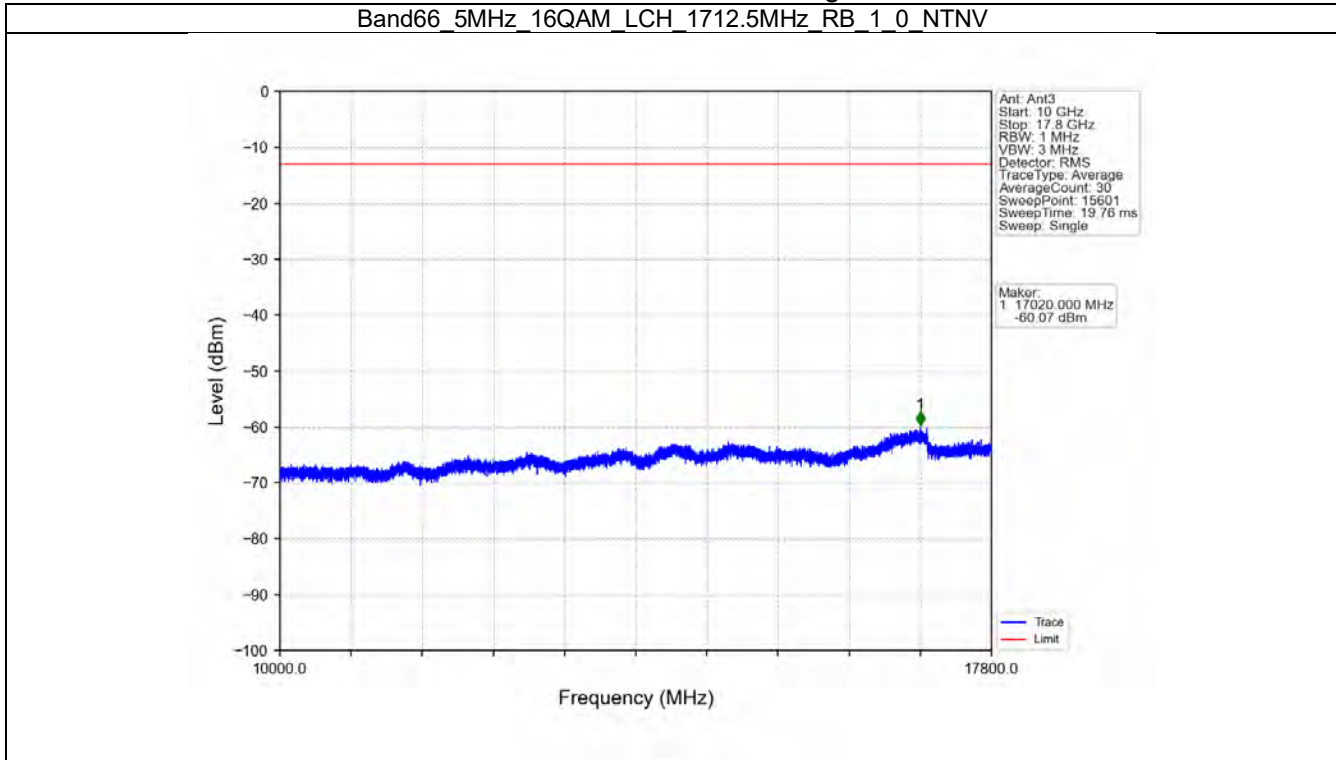
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 279 of 392

Band66_5MHz_16QAM_LCH_1712.5MHz_RB_1_0_NTNV



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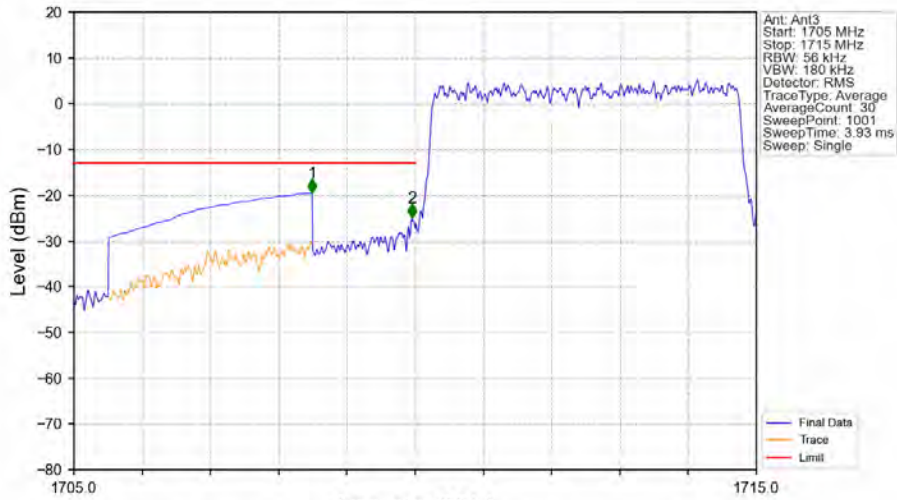
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 280 of 392

Band66_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1705 | 1709 | 1 | CHP | 1 | 1708.490 | -19.58 | -13 | Pass |
| 1709 | 1710 | 0.056 | / | 2 | 1709.950 | -24.99 | -13 | Pass |
| 1710 | 1715 | 0.056 | / | / | / | / | / | / |

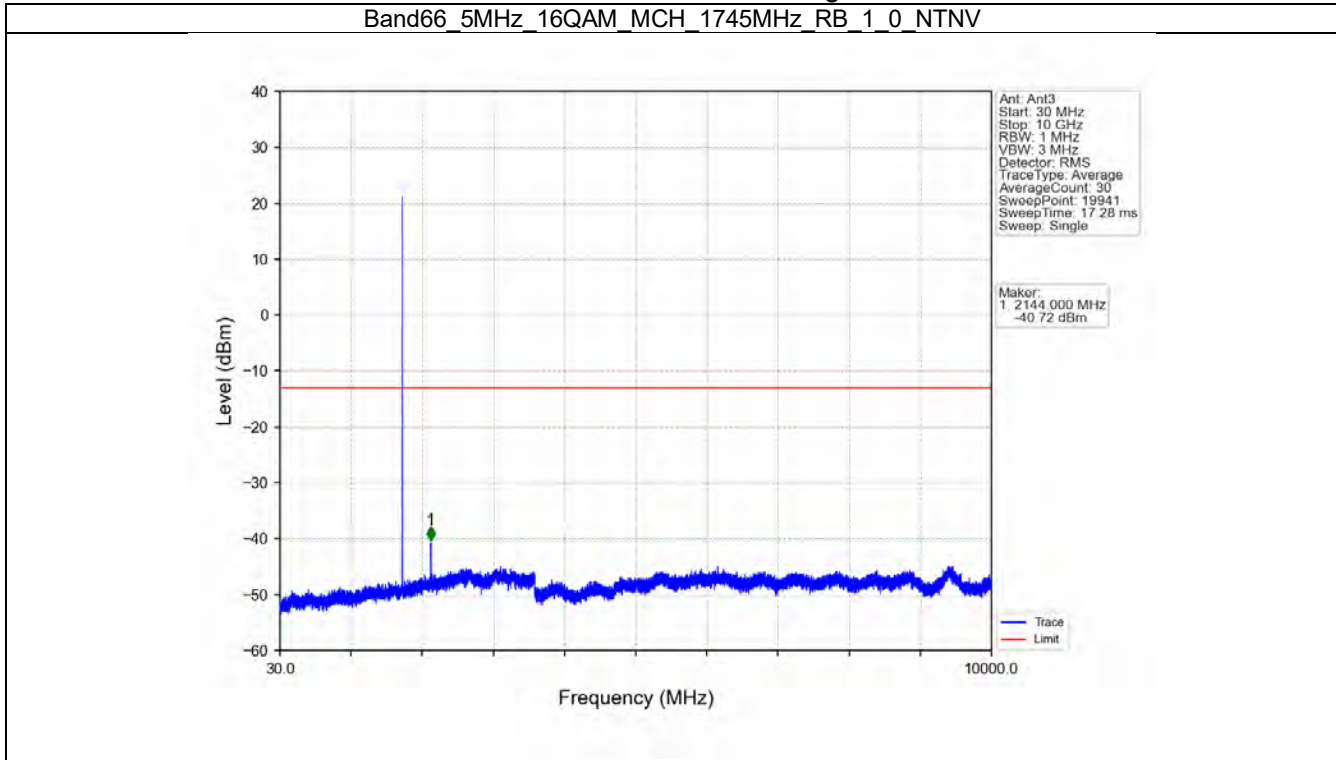


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Band66_5MHz_16QAM_MCH_1745MHz_RB_1_0_NTNV



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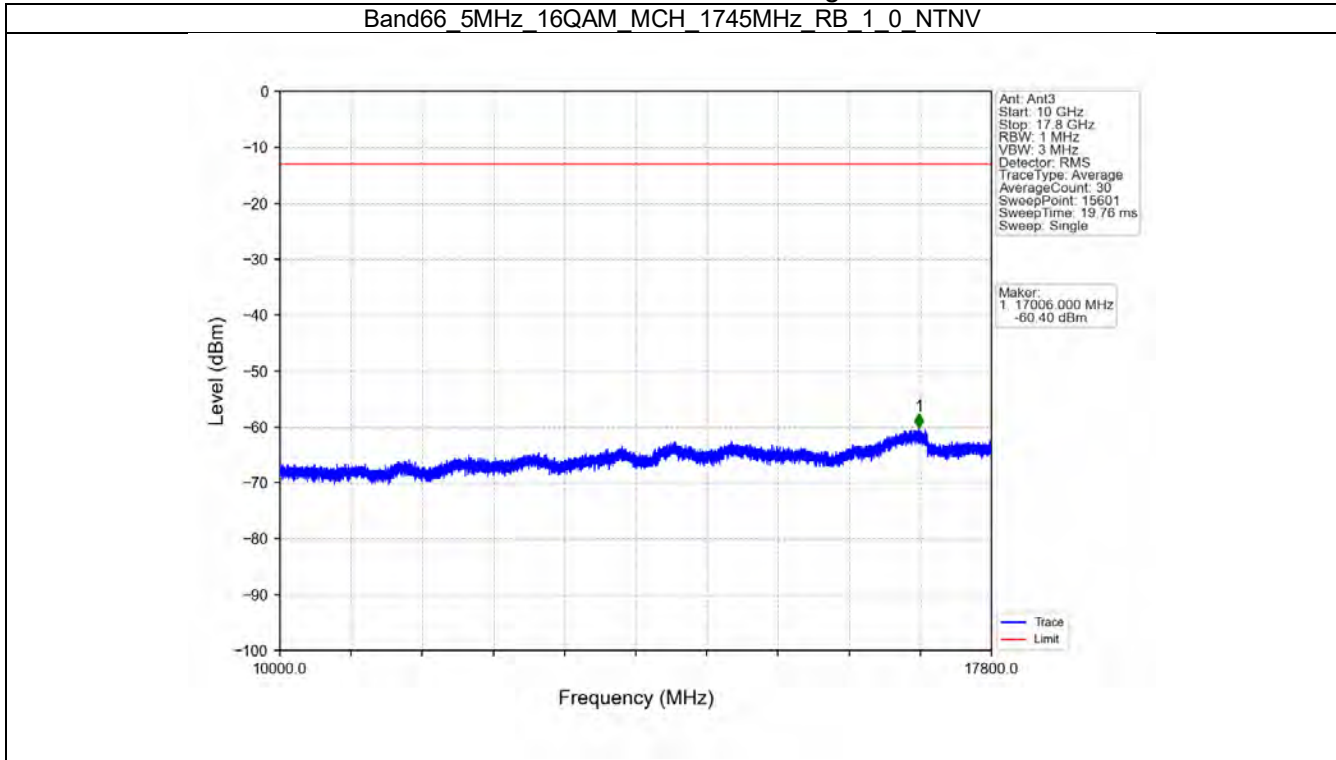
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 282 of 392

Band66_5MHz_16QAM_MCH_1745MHz_RB_1_0_NTNV

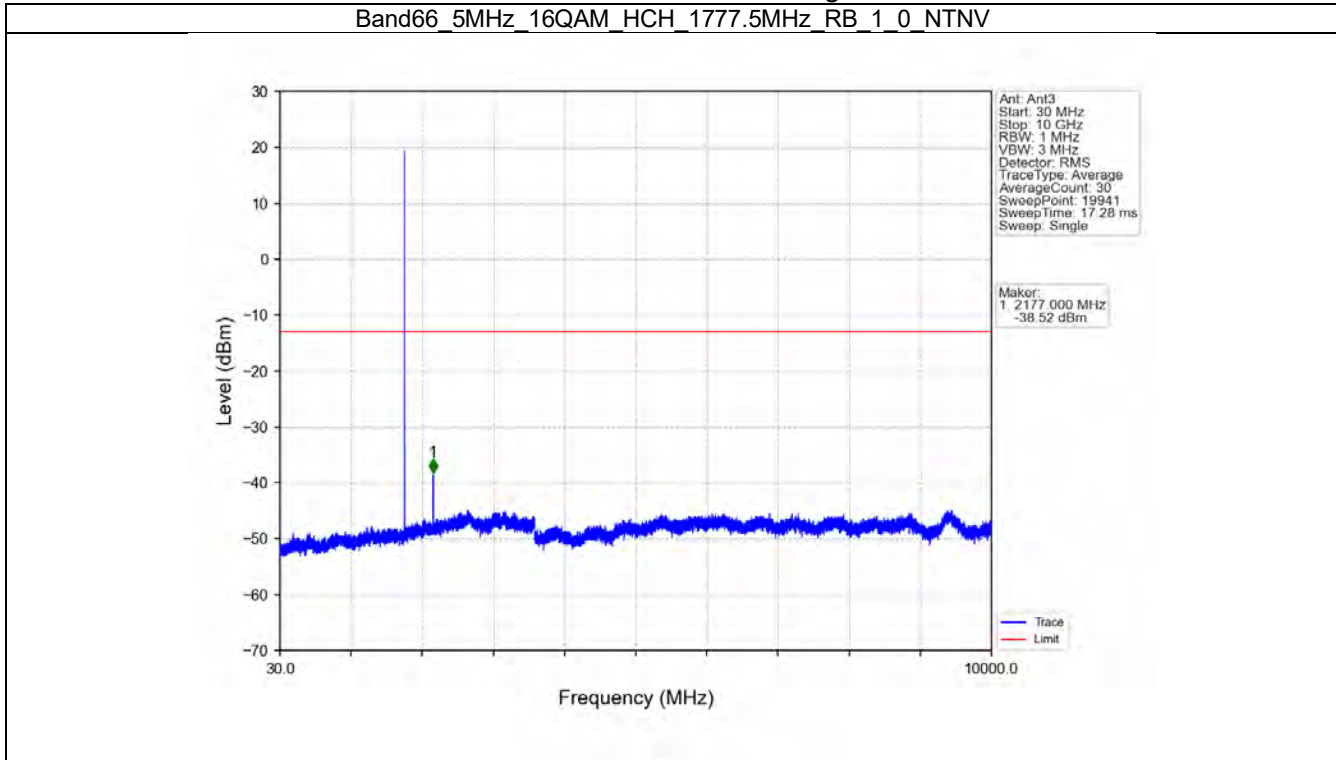


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Band66_5MHz_16QAM_HCH_1777.5MHz_RB_1_0_NTNV

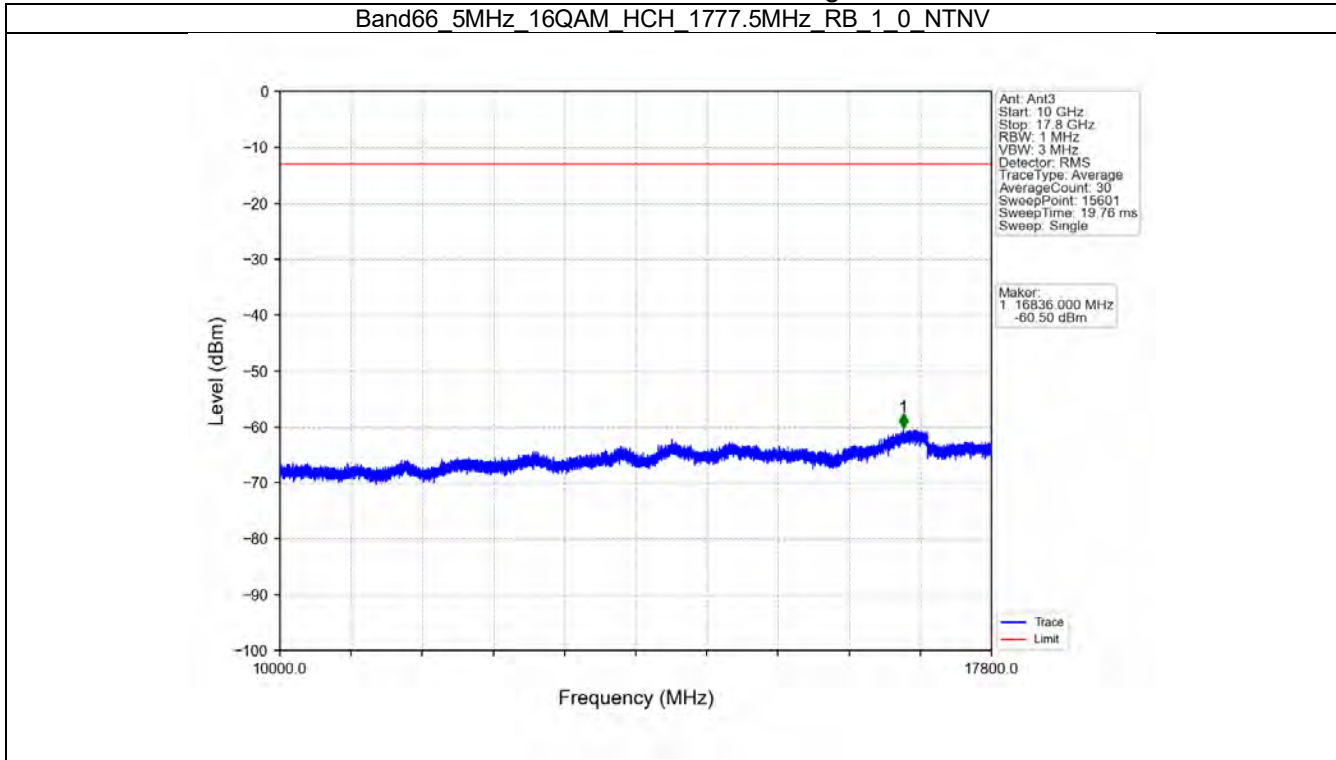


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Band66_5MHz_16QAM_HCH_1777.5MHz_RB_1_0_NTNV



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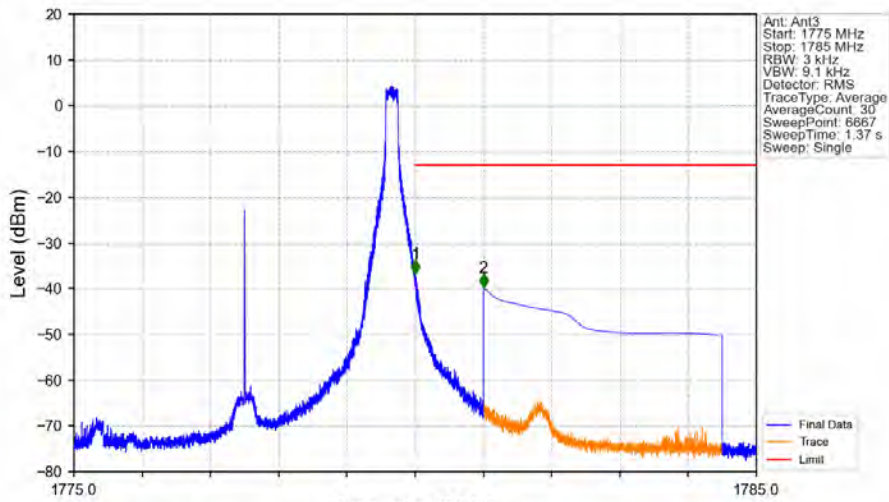
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 285 of 392

Band66_5MHz_16QAM_HCH_1777.5MHz_RB_1_24_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1775 | 1780 | 0.003 | / | 1 | 1780.002 | -36.80 | -13 | Pass |
| 1781 | 1785 | 1 | CHP | 2 | 1781.001 | -39.80 | -13 | Pass |



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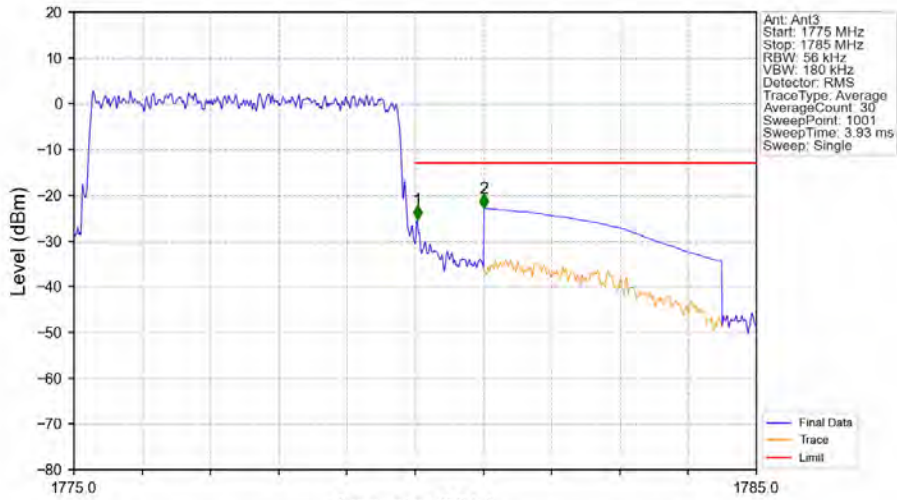
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 286 of 392

Band66_5MHz_16QAM_HCH_1777.5MHz_RB_25_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1775 | 1780 | 0.056 | / | / | / | / | / | / |
| 1780 | 1781 | 0.056 | / | 1 | 1780.030 | -25.33 | -13 | Pass |
| 1781 | 1785 | 1 | CHP | 2 | 1781.010 | -22.82 | -13 | Pass |



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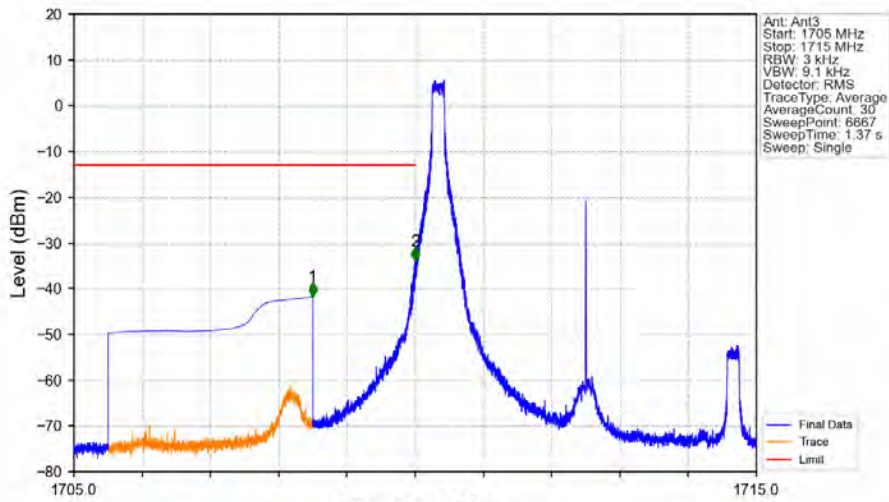
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 287 of 392

Band66_5MHz_64QAM_LCH_1712.5MHz_RB_1_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1705 | 1709 | 1 | CHP | 1 | 1708.498 | -41.78 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1710.000 | -33.99 | -13 | Pass |
| 1710 | 1715 | 0.003 | / | / | / | / | / | / |

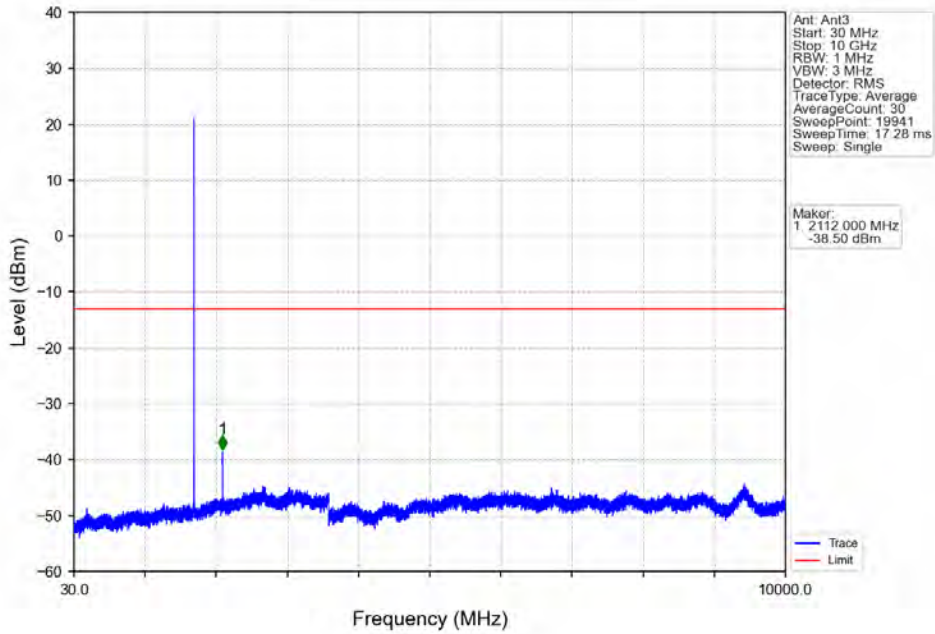


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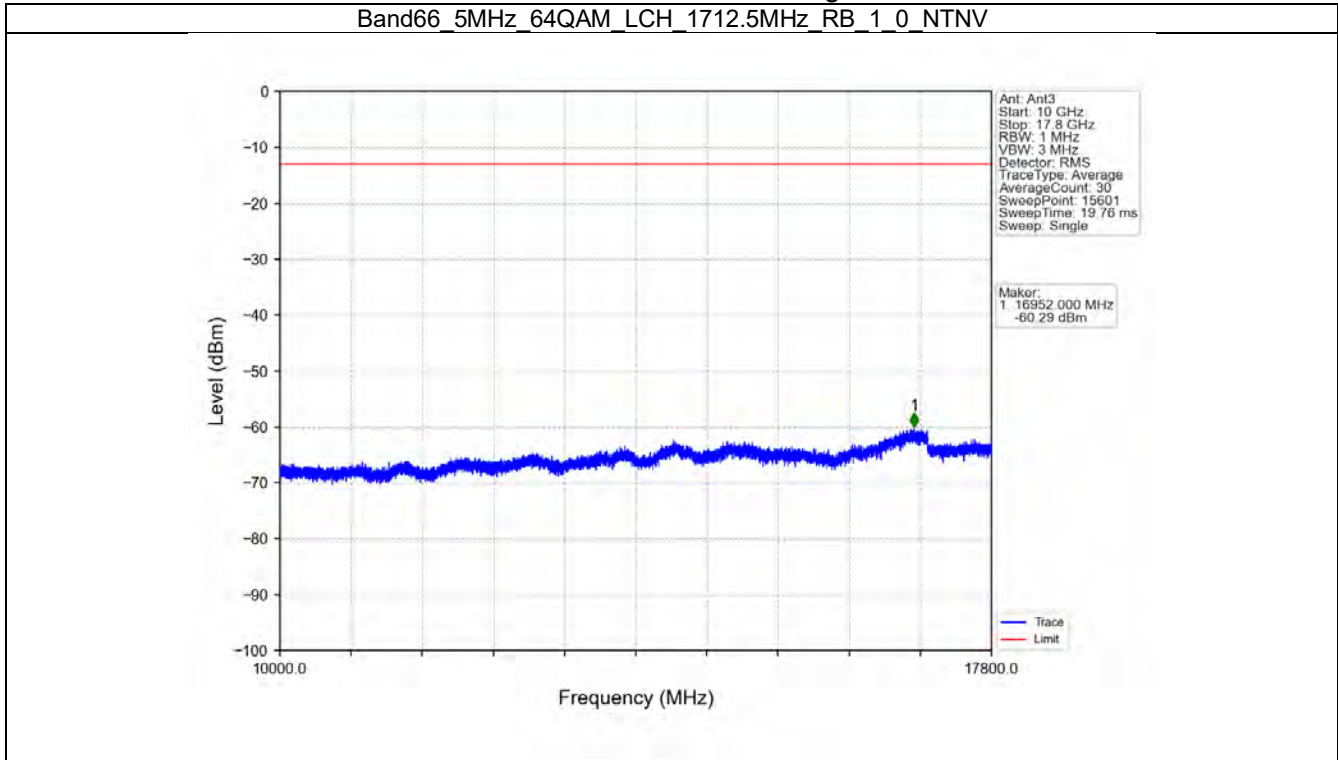
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 289 of 392

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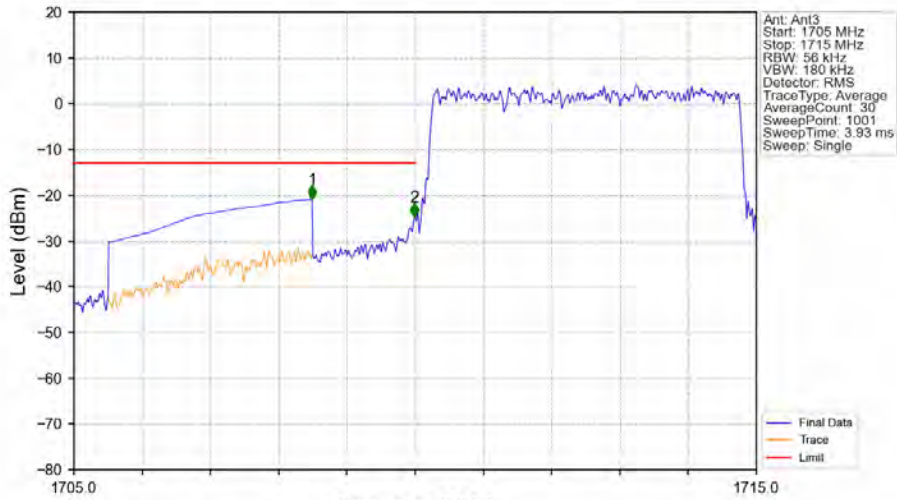


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Band66_5MHz_64QAM_LCH_1712.5MHz_RB_25_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1705 | 1709 | 1 | CHP | 1 | 1708.490 | -20.92 | -13 | Pass |
| 1709 | 1710 | 0.056 | / | 2 | 1709.990 | -24.83 | -13 | Pass |
| 1710 | 1715 | 0.056 | / | / | / | / | / | / |

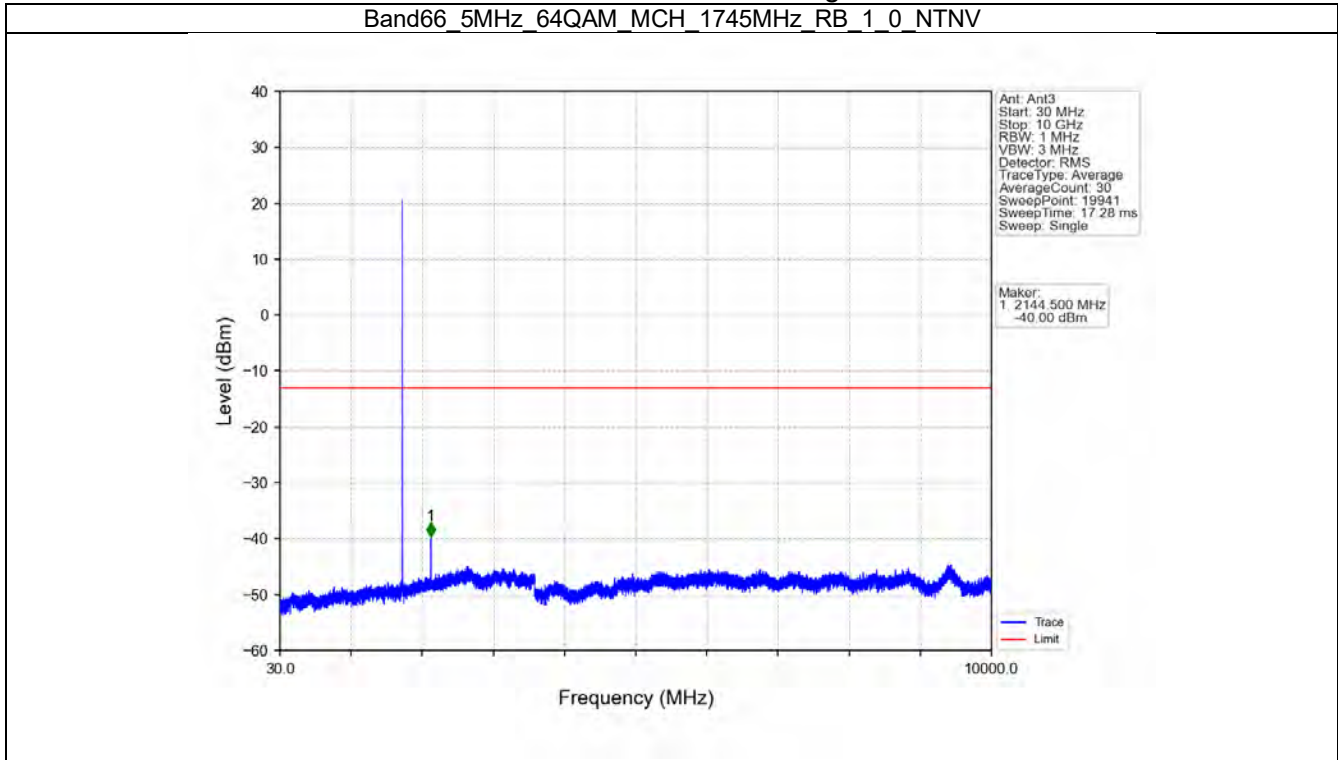


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Band66_5MHz_64QAM_MCH_1745MHz_RB_1_0_NTNV



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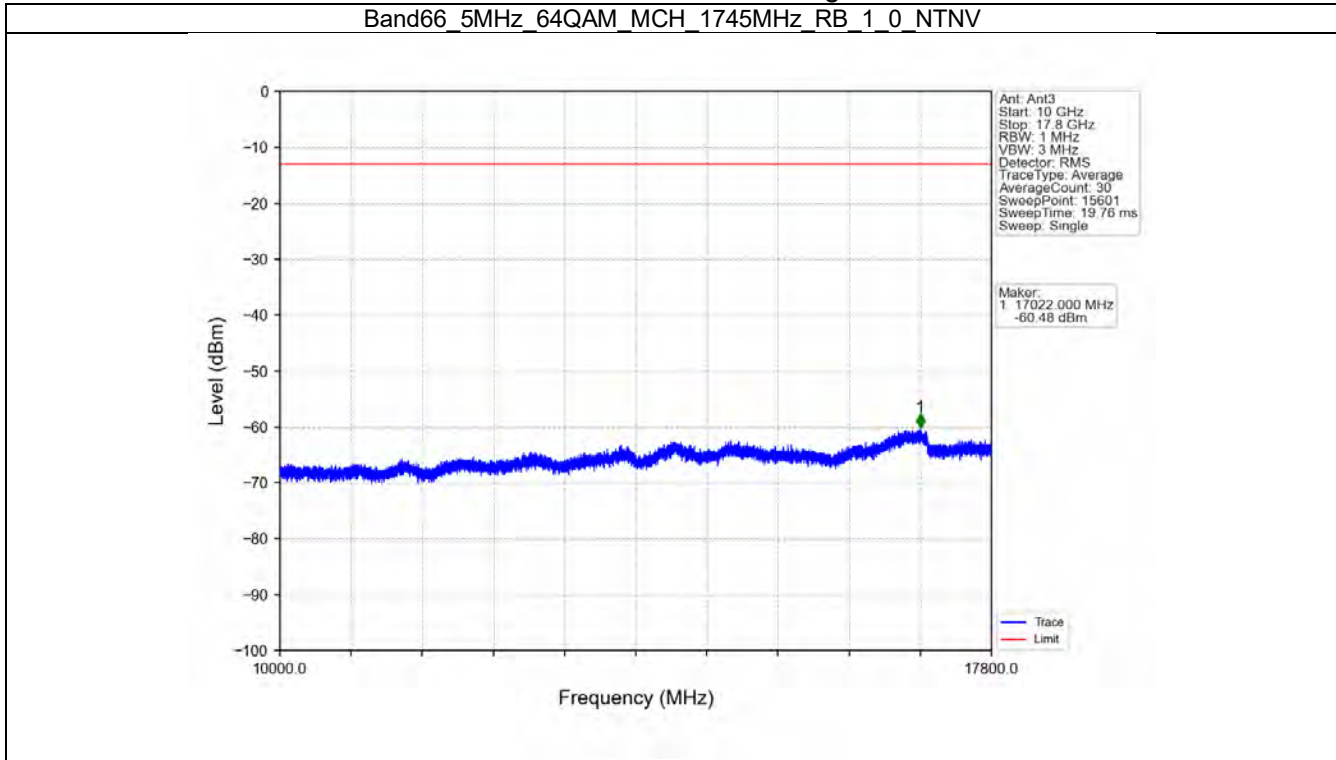
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 292 of 392

Band66_5MHz_64QAM_MCH_1745MHz_RB_1_0_NTNV



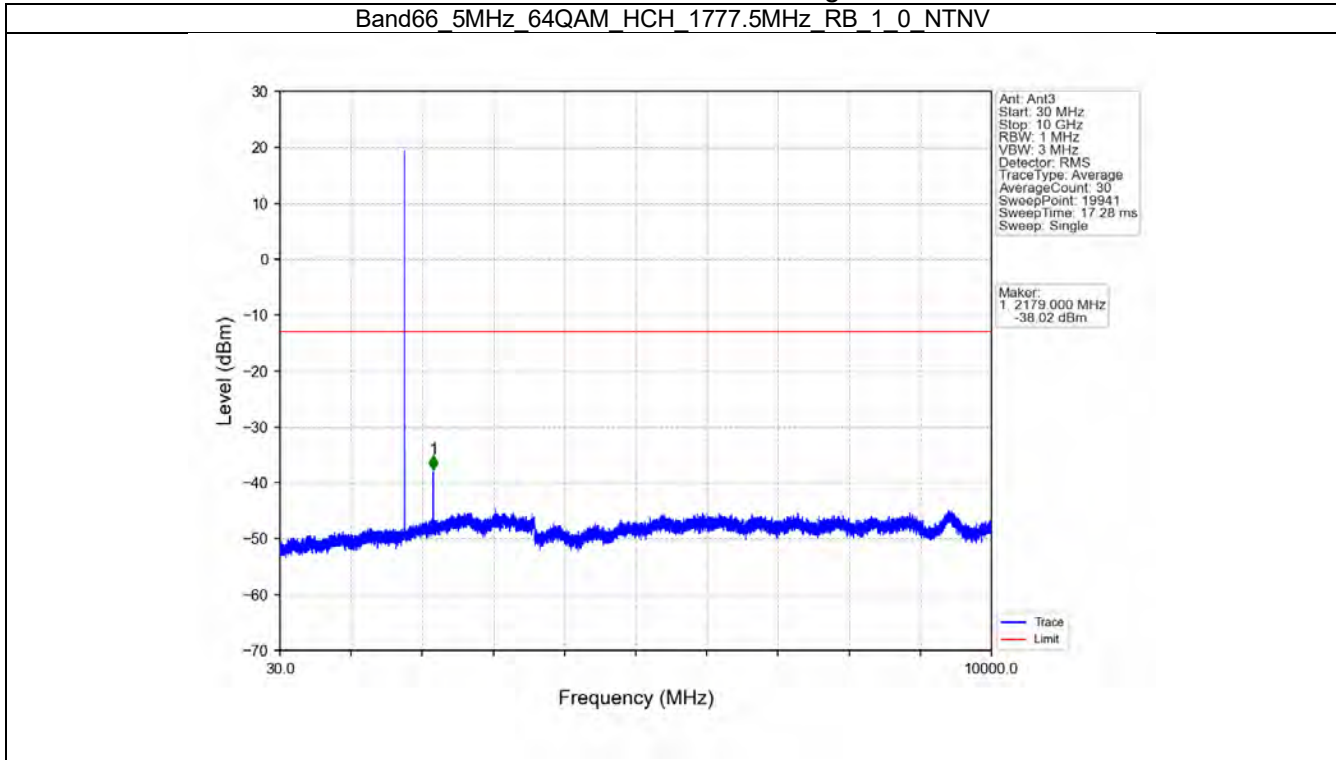
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Band66_5MHz_64QAM_HCH_1777.5MHz_RB_1_0_NTNV



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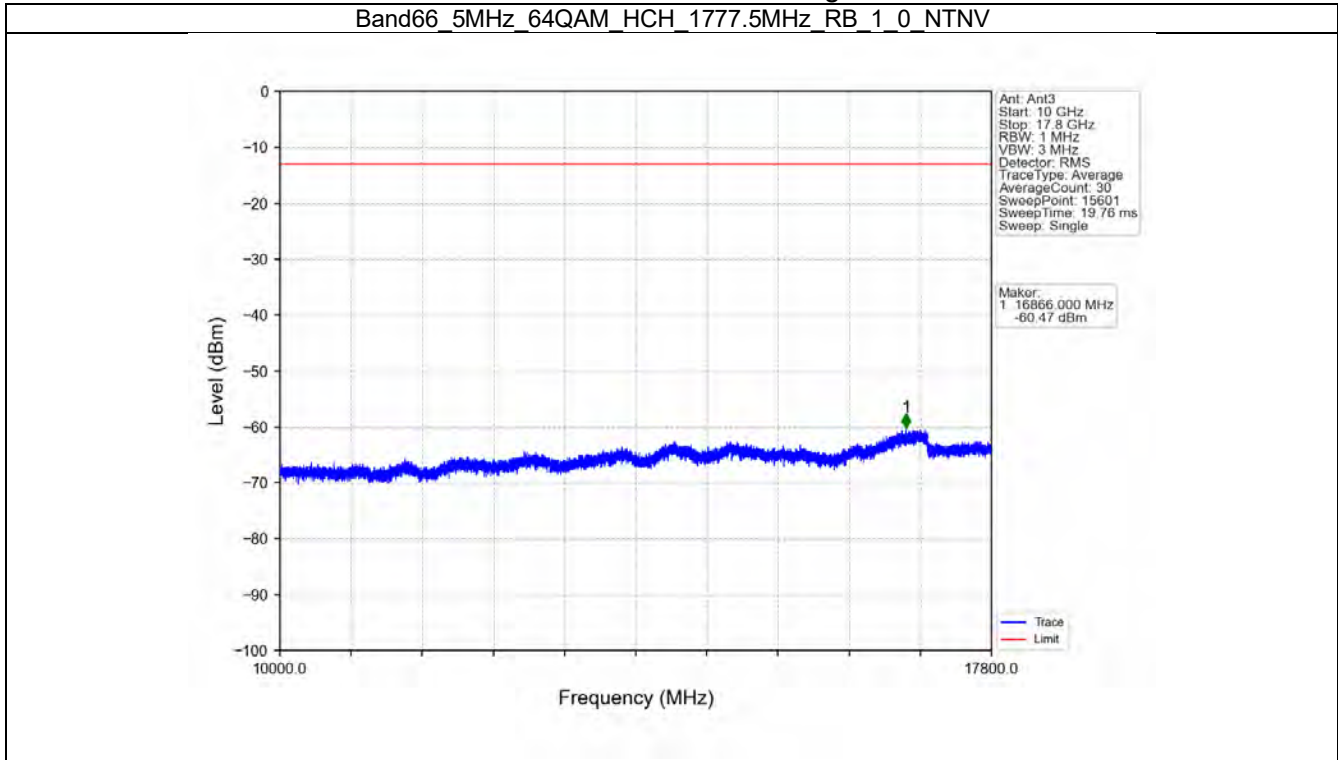
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 294 of 392

Band66_5MHz_64QAM_HCH_1777.5MHz_RB_1_0_NTNV



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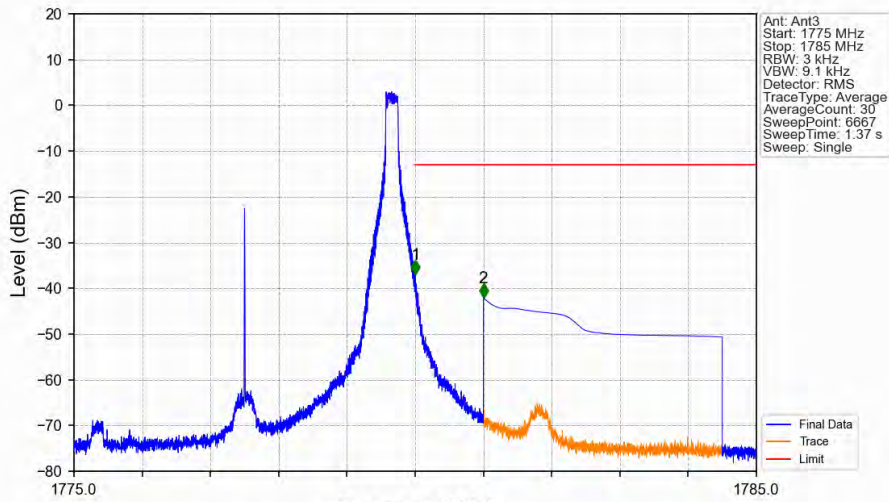
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 295 of 392

Band66_5MHz_64QAM_HCH_1777.5MHz_RB_1_24_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 1775 | 1780 | 0.003 | / | / | / | / | / | / |
| 1780 | 1781 | 0.003 | / | 1 | 1780.002 | -37.00 | -13 | Pass |
| 1781 | 1785 | 1 | CHP | 2 | 1781.001 | -42.14 | -13 | Pass |



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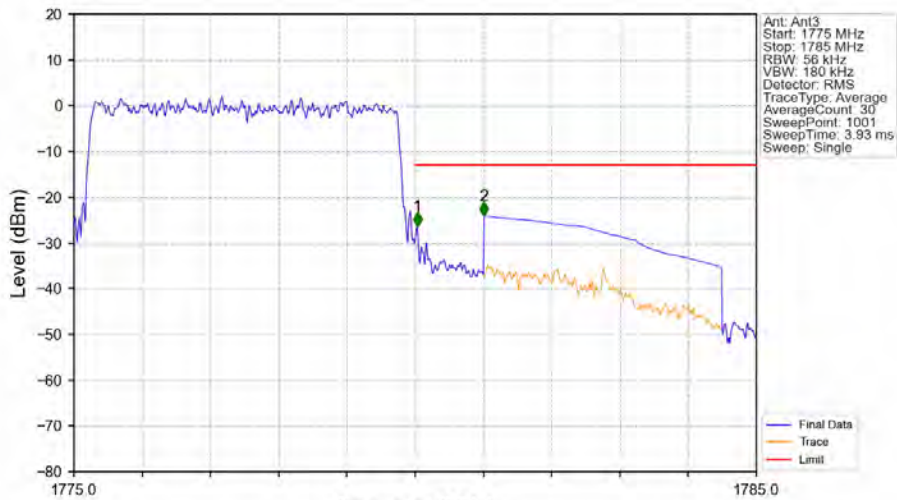
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 296 of 392

Band66_5MHz_64QAM_HCH_1777.5MHz_RB_25_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1775 | 1780 | 0.056 | / | 1 | 1780.030 | -26.38 | -13 | Pass |
| 1781 | 1785 | 1 | CHP | 2 | 1781.010 | -24.06 | -13 | Pass |



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5.4 B66_10MHz

5.4.1 Test Result

| Band: 66 / Bandwidth: 10MHz / NTVN | | | | | | |
|------------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1715 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 1775 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | | | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1715 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 1775 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | | | 0 | Refer To Test Graph | | Pass |
| 64QAM | 1715 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 1775 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | | | 0 | Refer To Test Graph | | Pass |

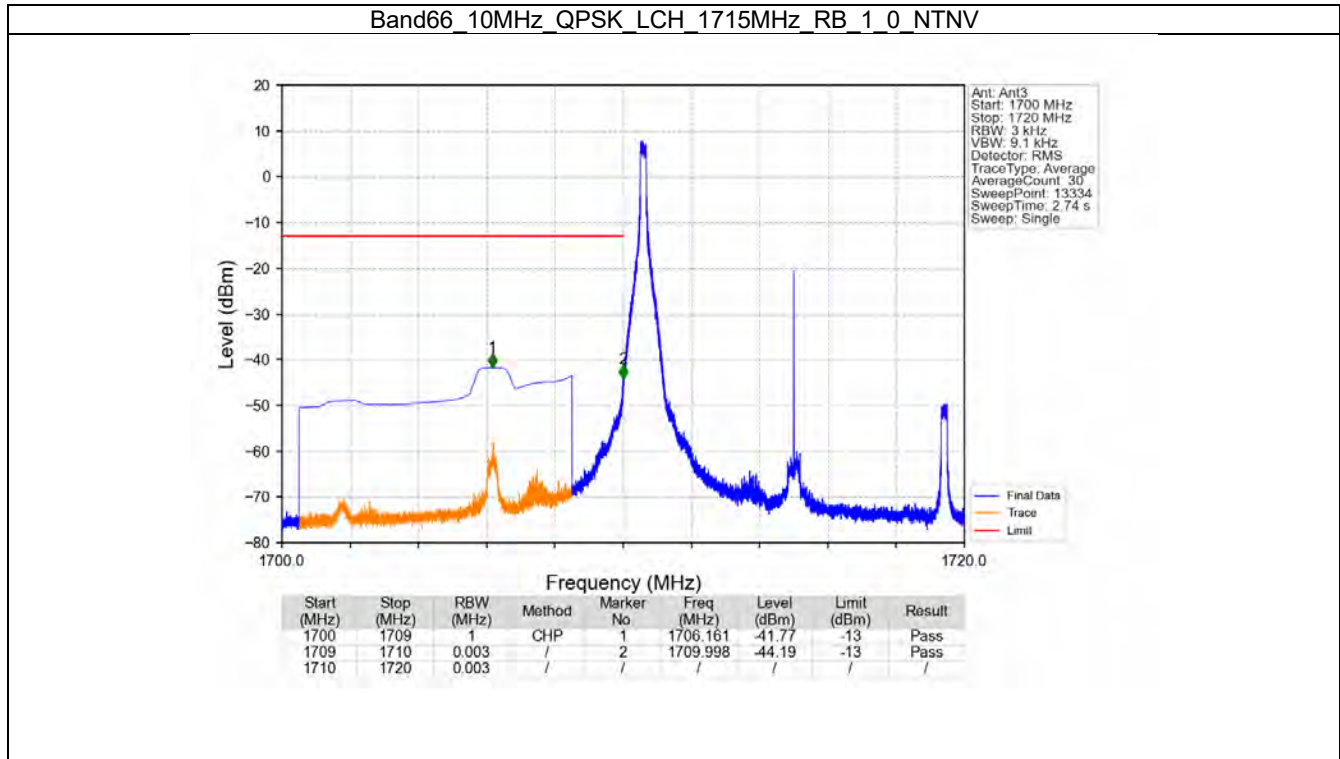


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5.4.2 Test Graph

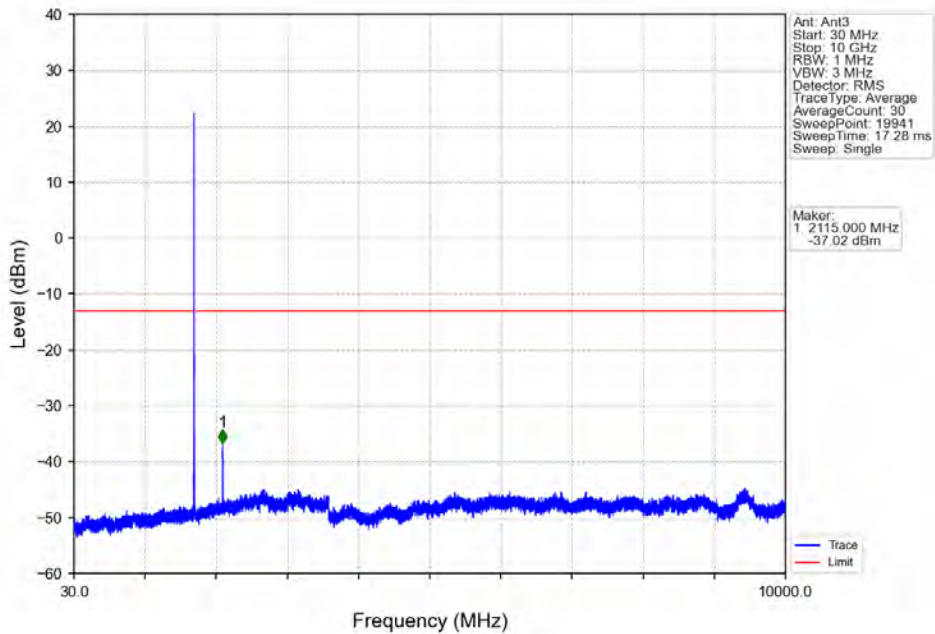


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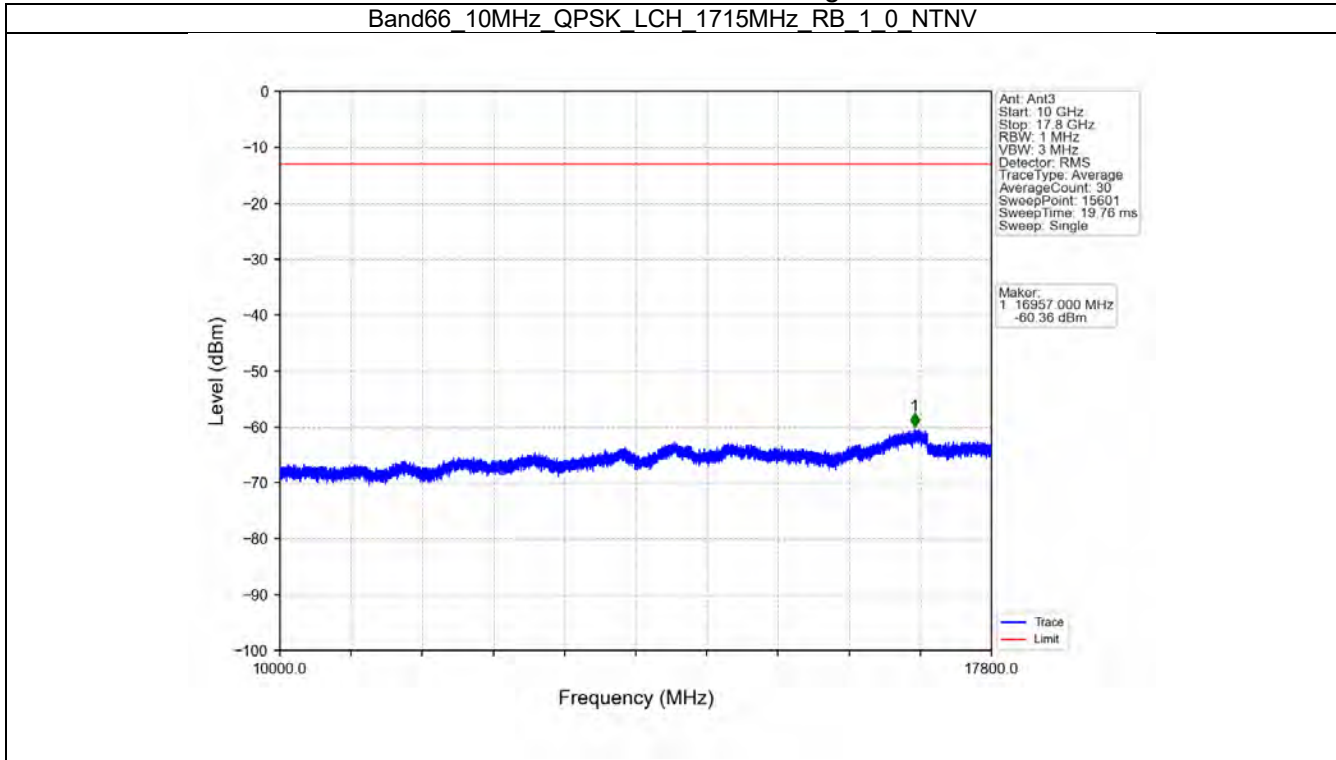
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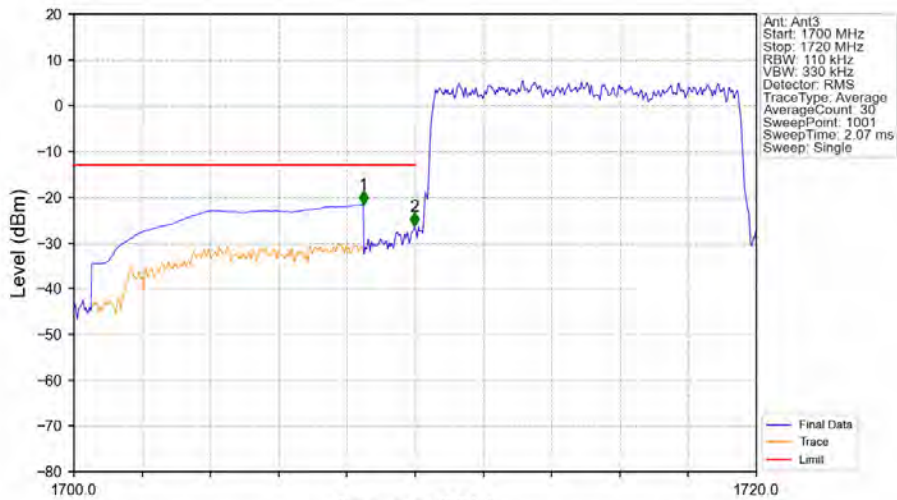


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Band66_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1700 | 1709 | 1 | CHP | 1 | 1708.480 | -21.60 | -13 | Pass |
| 1709 | 1710 | 0.11 | / | 2 | 1709.980 | -26.46 | -13 | Pass |
| 1710 | 1720 | 0.11 | / | / | / | / | / | / |

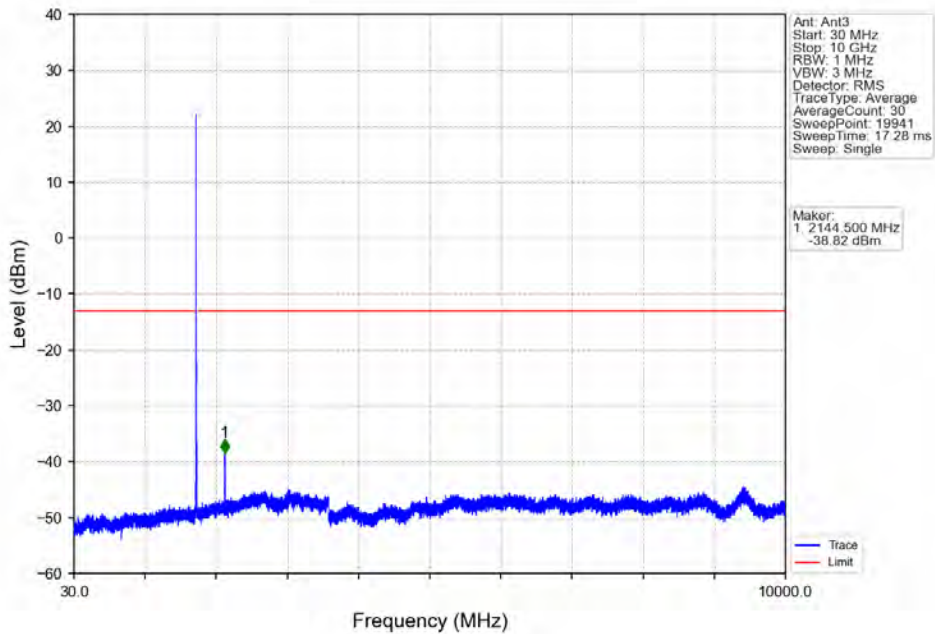


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Band66_10MHz_QPSK_MCH_1745MHz_RB_1_0_NTNV

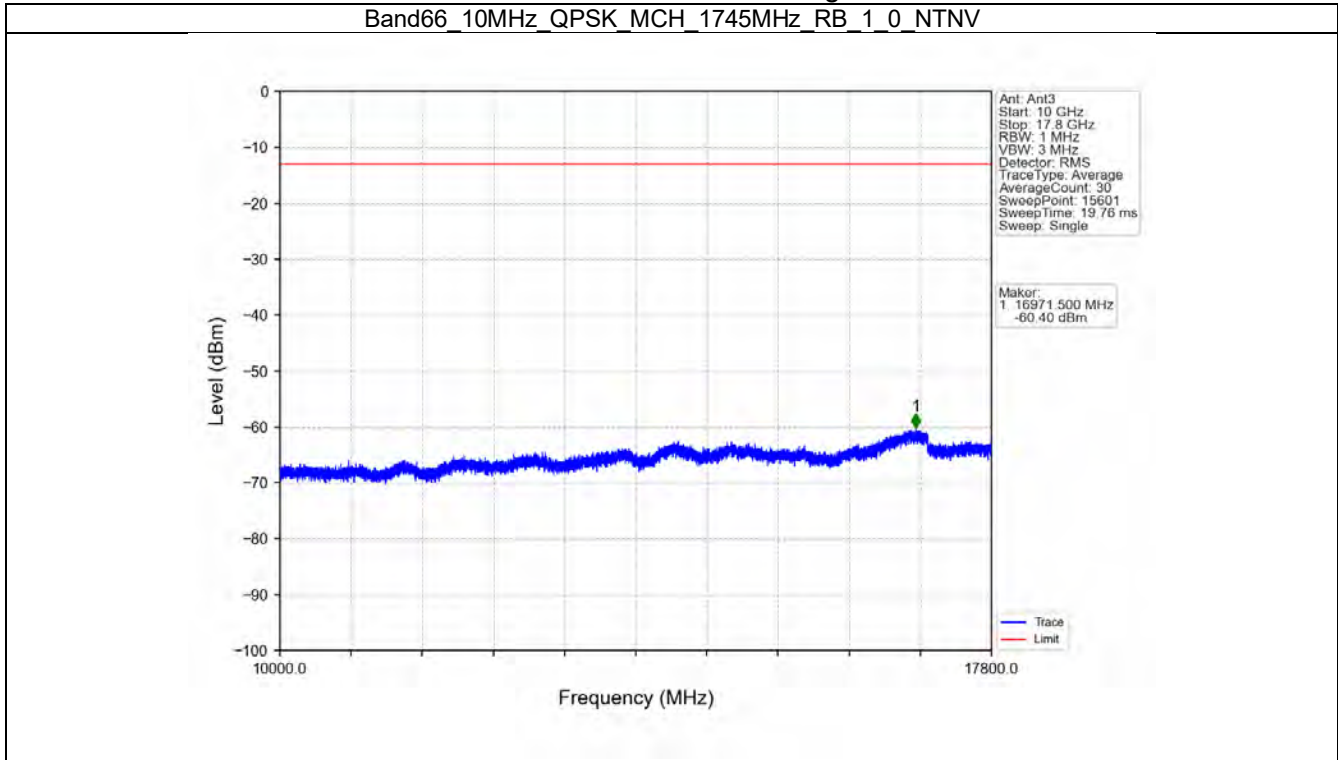


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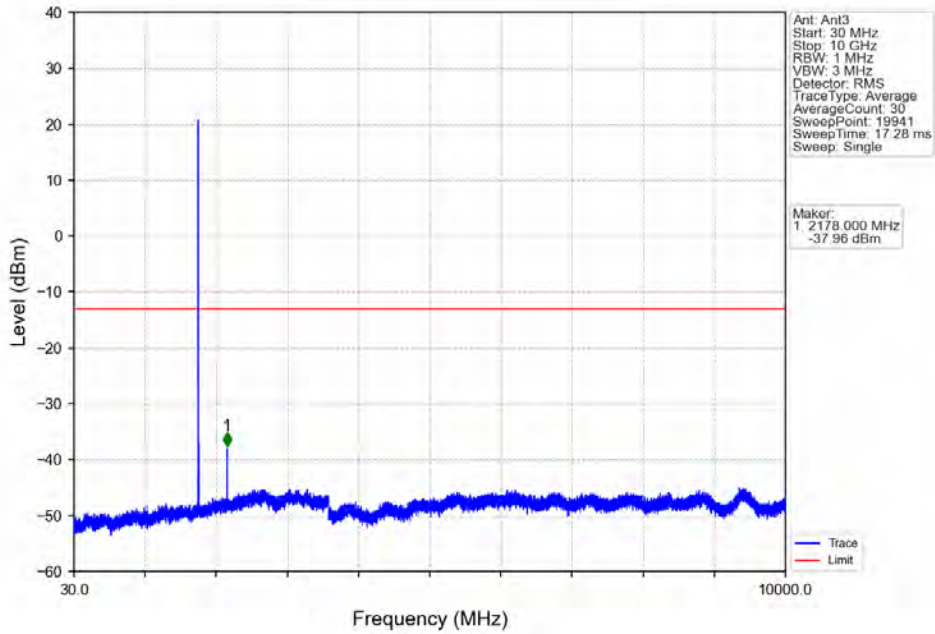


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Band66 10MHz_QPSK_HCH_1775MHz_RB_1_0_NTNV



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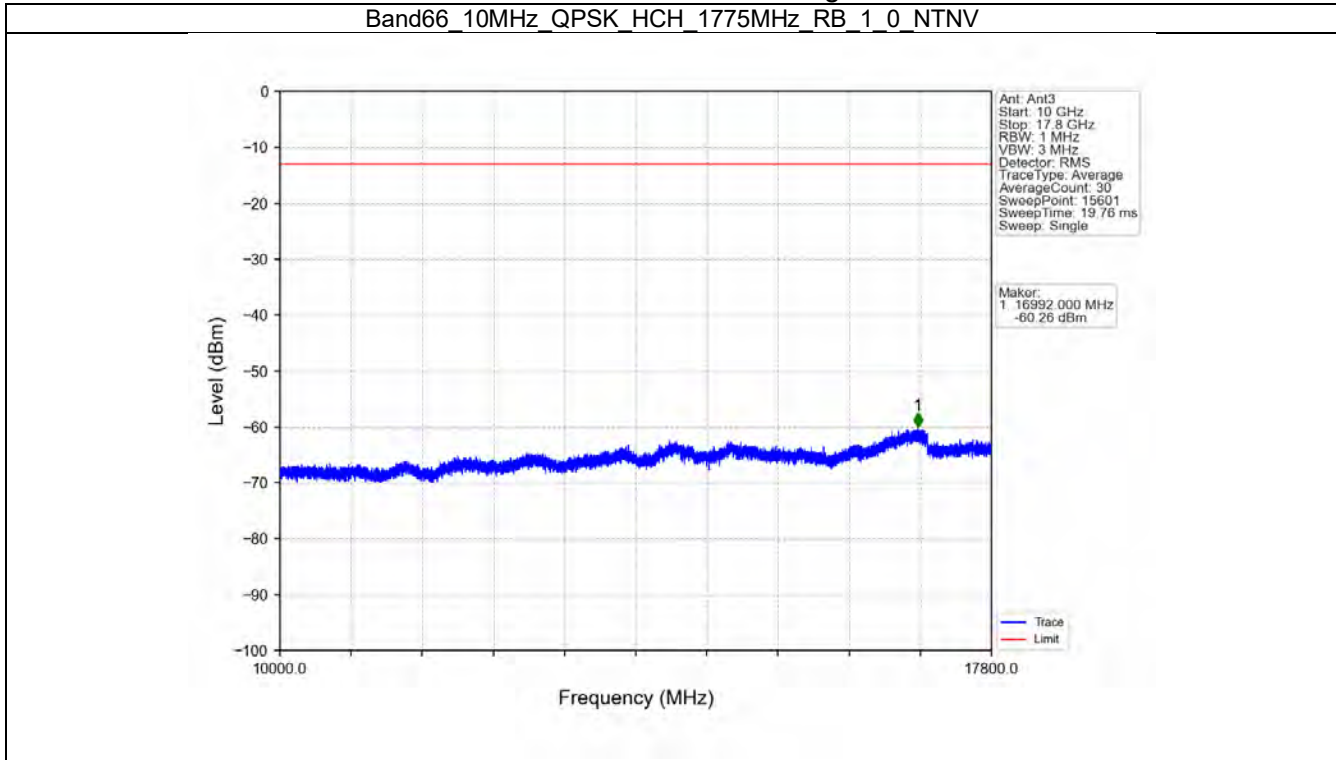
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 305 of 392

Band66 10MHz_QPSK_HCH_1775MHz_RB_1_0_NTNV



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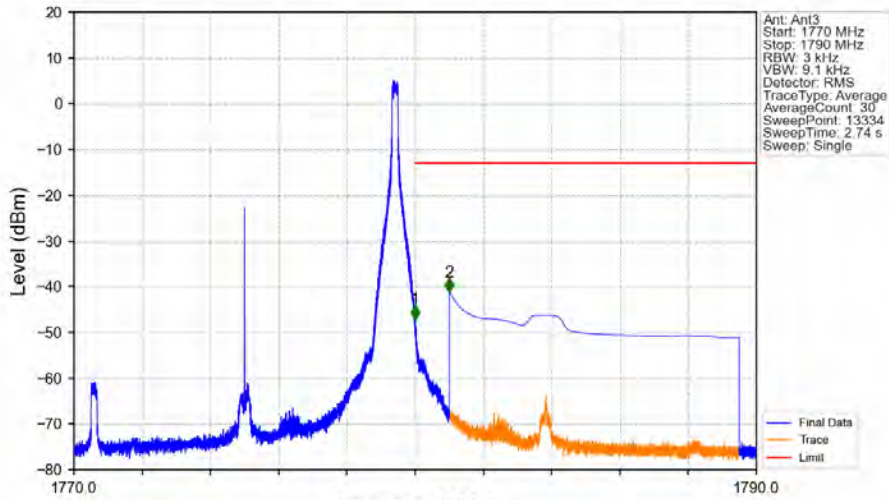
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 306 of 392

Band66_10MHz_QPSK_HCH_1775MHz_RB_1_49_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1770 | 1780 | 0.003 | / | 1 | 1780.001 | -47.13 | -13 | Pass |
| 1780 | 1781 | 0.003 | / | 1 | 1780.001 | -47.13 | -13 | Pass |
| 1781 | 1790 | 1 | CHP | 2 | 1781.001 | -41.27 | -13 | Pass |



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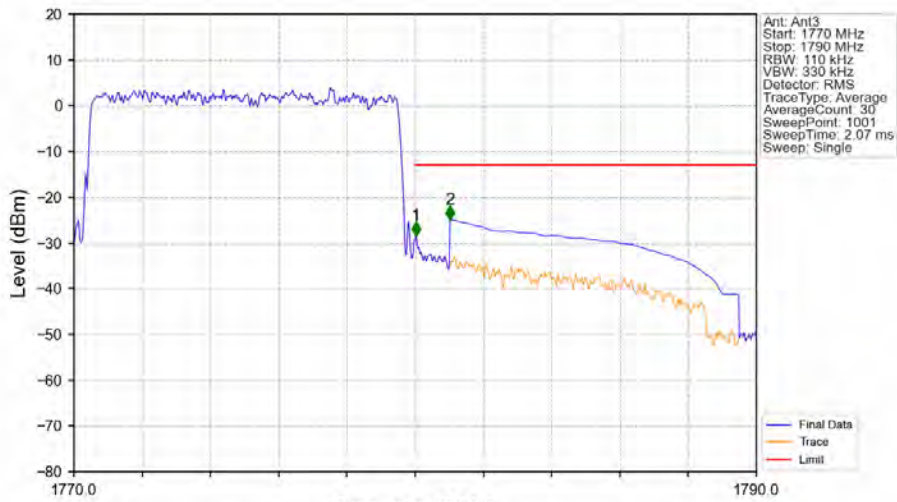
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 307 of 392

Band66_10MHz_QPSK_HCH_1775MHz_RB_50_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1770 | 1780 | 0.11 | / | / | / | / | / | / |
| 1780 | 1781 | 0.11 | / | 1 | 1780.020 | -28.43 | -13 | Pass |
| 1781 | 1790 | 1 | CHP | 2 | 1781.020 | -24.91 | -13 | Pass |



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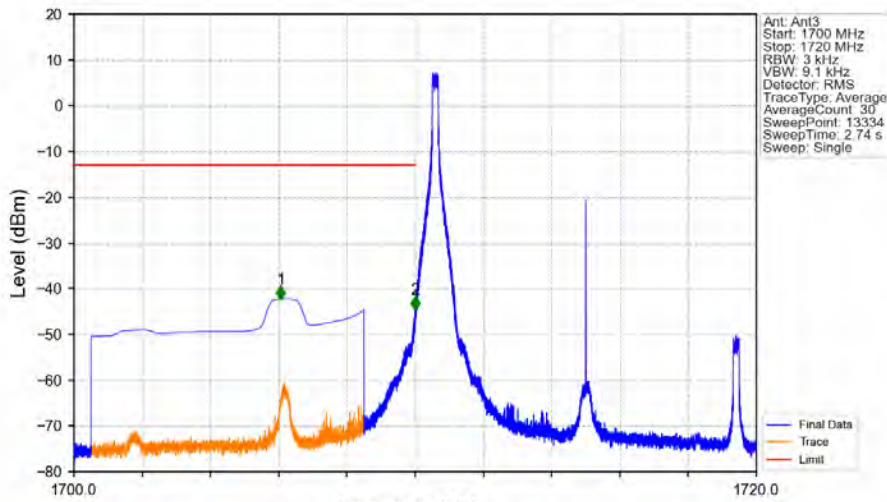
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 308 of 392

Band66_10MHz_16QAM_LCH_1715MHz_RB_1_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1700 | 1709 | 1 | CHP | 1 | 1706.063 | -42.34 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.999 | -44.64 | -13 | Pass |
| 1710 | 1720 | 0.003 | / | / | / | / | / | / |



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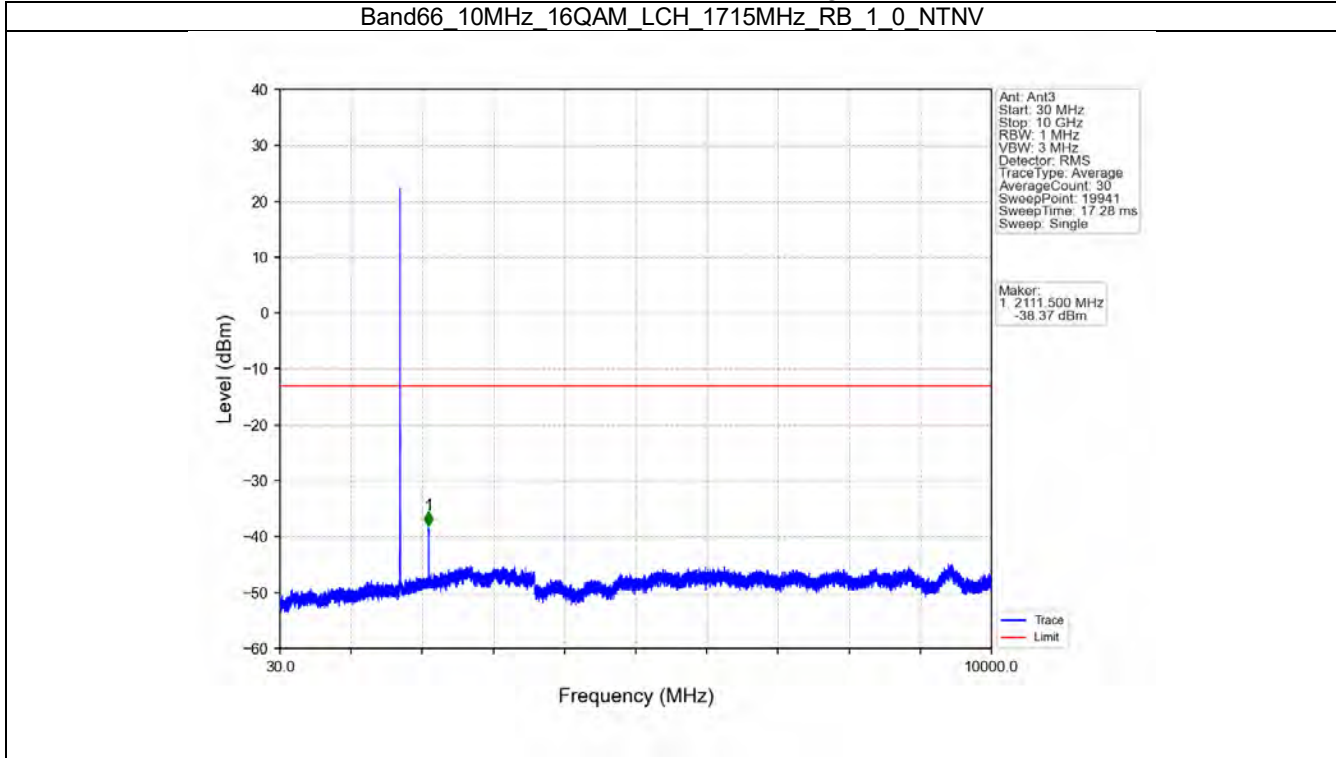
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Rev.: 01

Page: 309 of 392

Band66_10MHz_16QAM_LCH_1715MHz_RB_1_0_NTNV

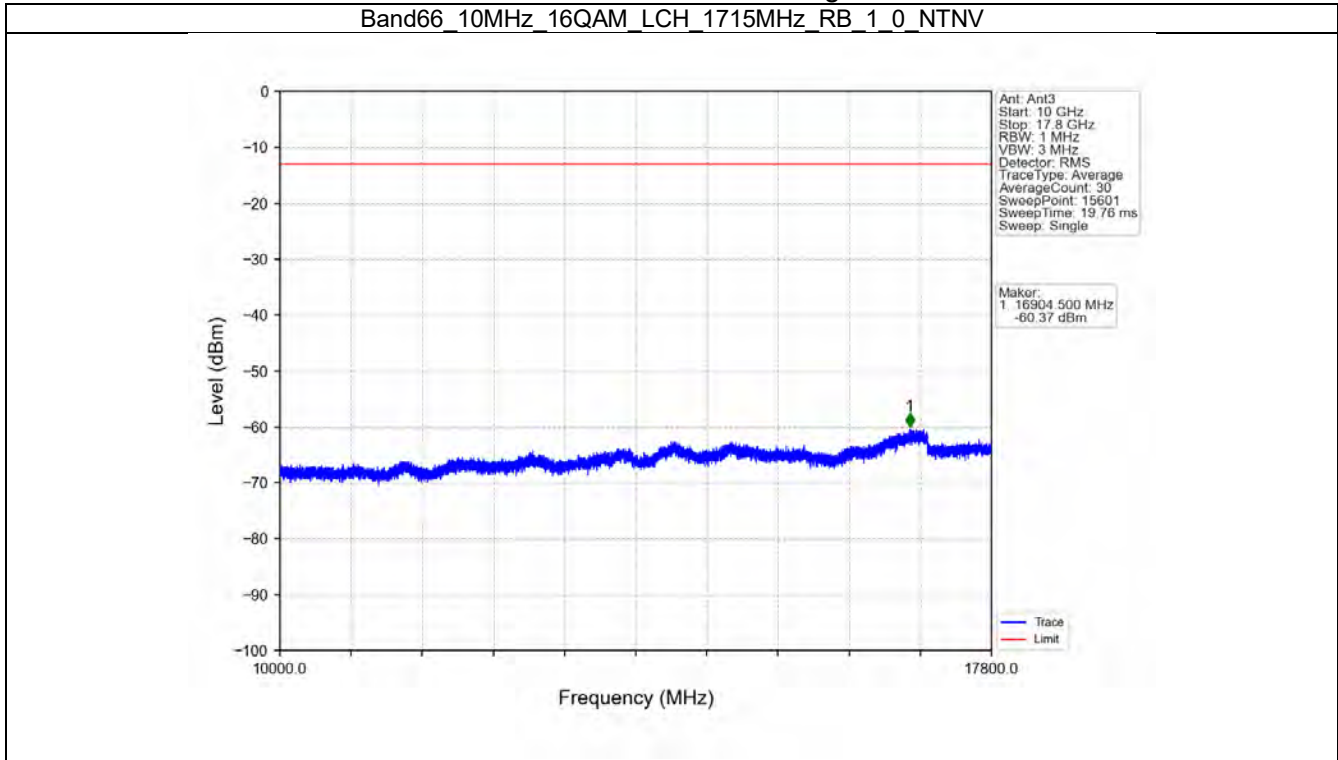


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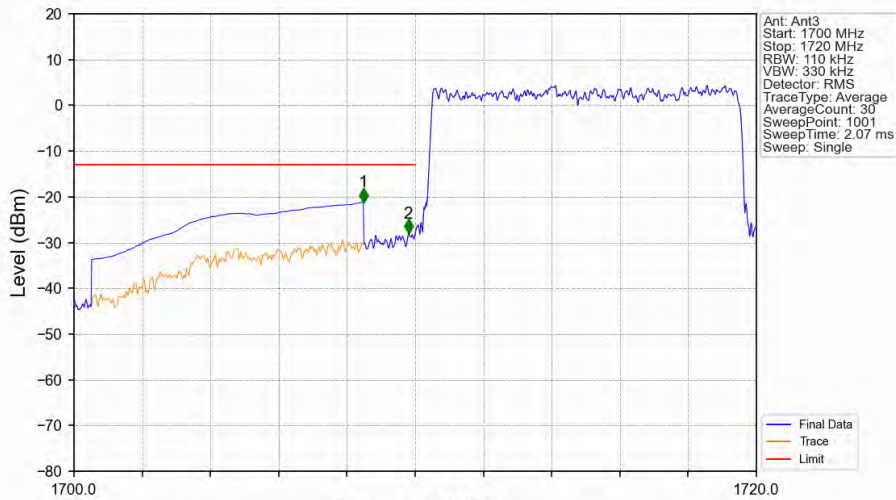


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Band66_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 1700 | 1709 | 1 | CHP | 1 | 1708.480 | -21.19 | -13 | Pass |
| 1709 | 1710 | 0.11 | / | 2 | 1709.800 | -28.02 | -13 | Pass |
| 1710 | 1720 | 0.11 | / | / | / | / | / | / |

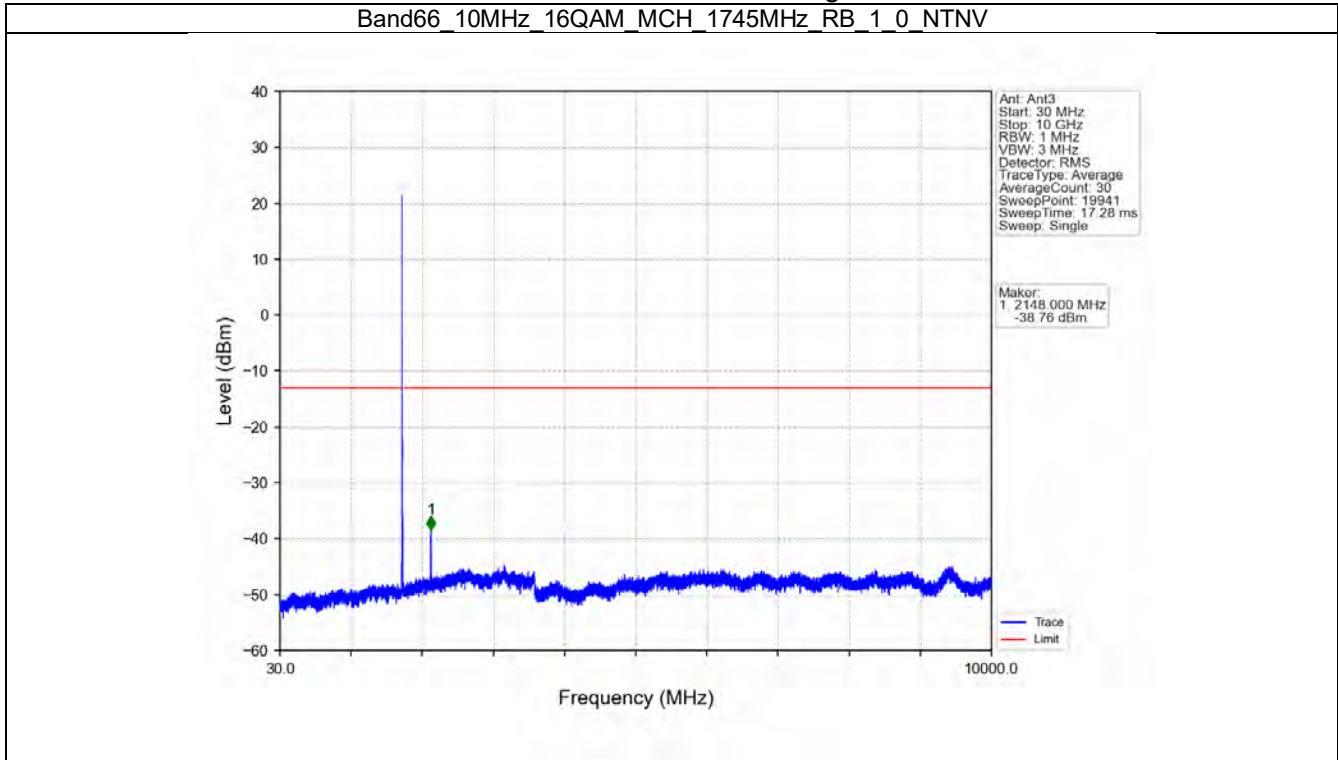


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Band66_10MHz_16QAM_MCH_1745MHz_RB_1_0_NTNV



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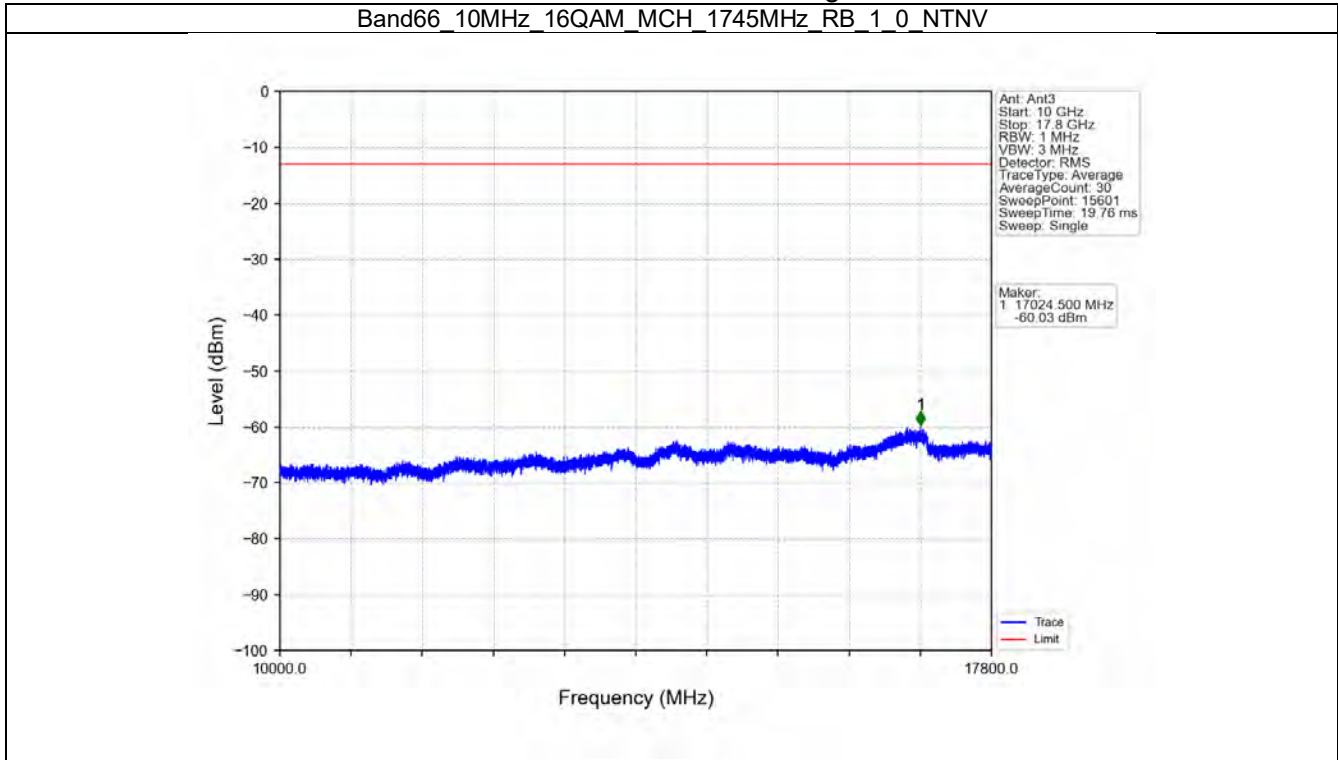
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 313 of 392

Band66_10MHz_16QAM_MCH_1745MHz_RB_1_0_NTNV



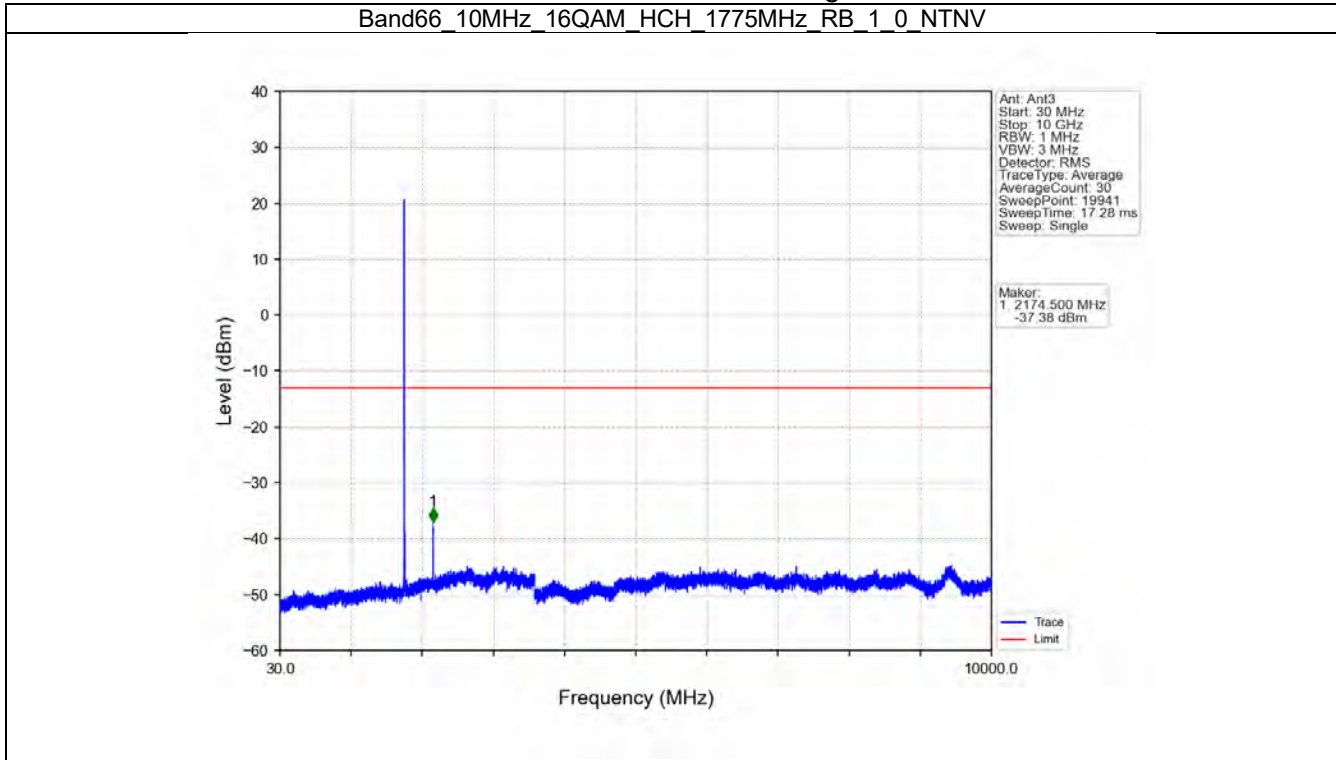
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Band66_10MHz_16QAM_HCH_1775MHz_RB_1_0_NTNV

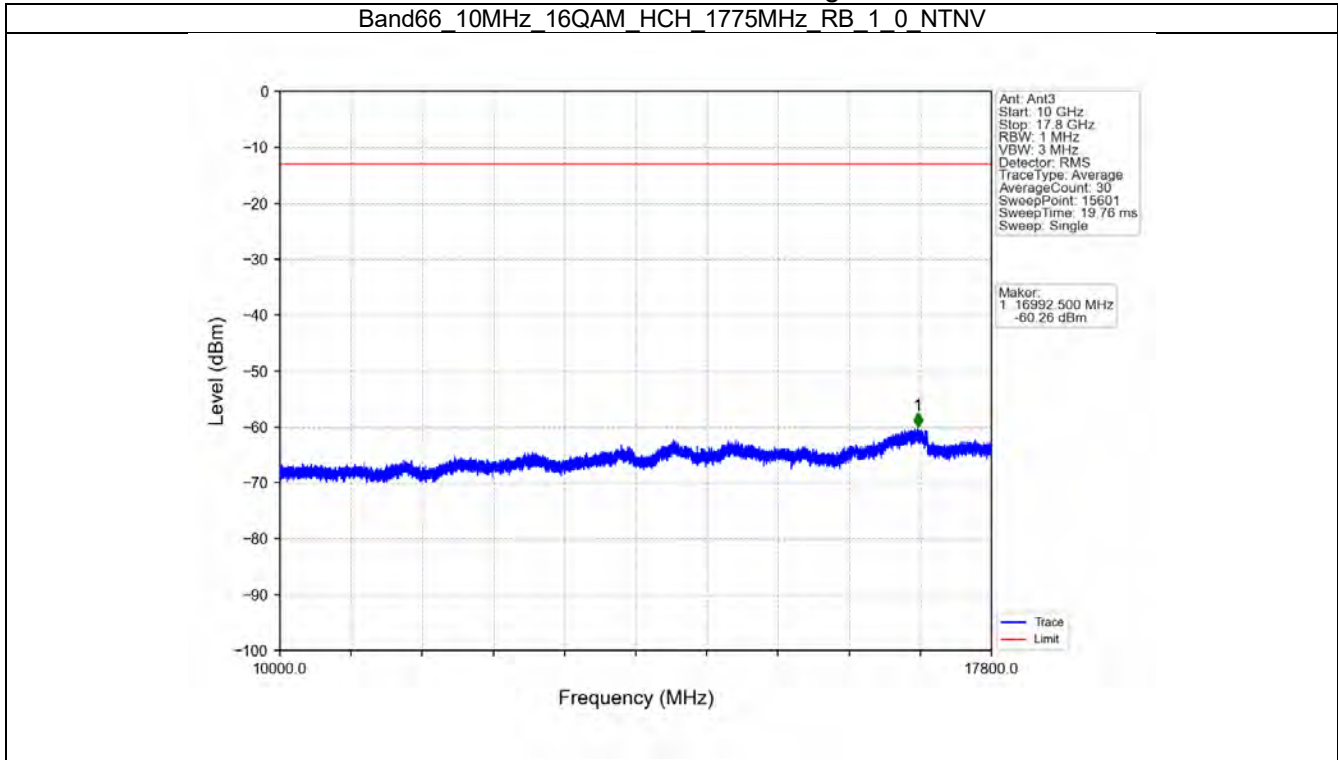


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Band66_10MHz_16QAM_HCH_1775MHz_RB_1_0_NTNV



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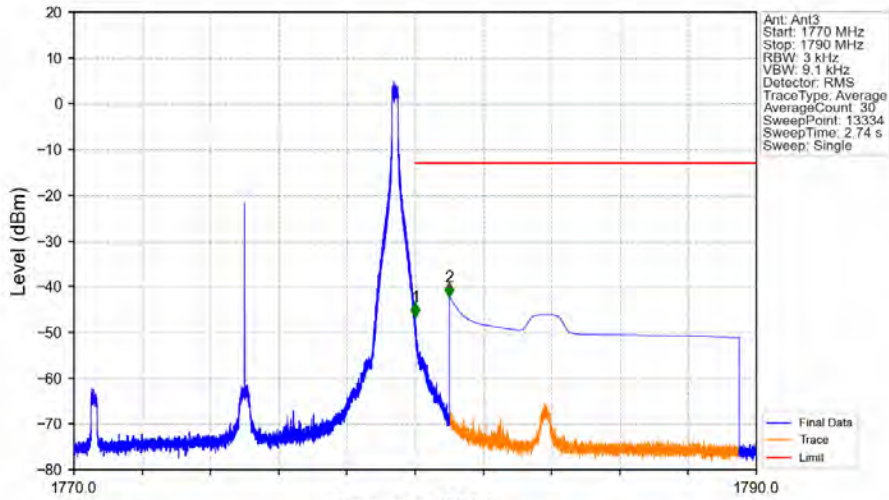
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 316 of 392

Band66_10MHz_16QAM_HCH_1775MHz_RB_1_49_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1770 | 1780 | 0.003 | / | 1 | 1780.002 | -46.65 | -13 | Pass |
| 1781 | 1790 | 1 | CHP | 2 | 1781.001 | -42.27 | -13 | Pass |



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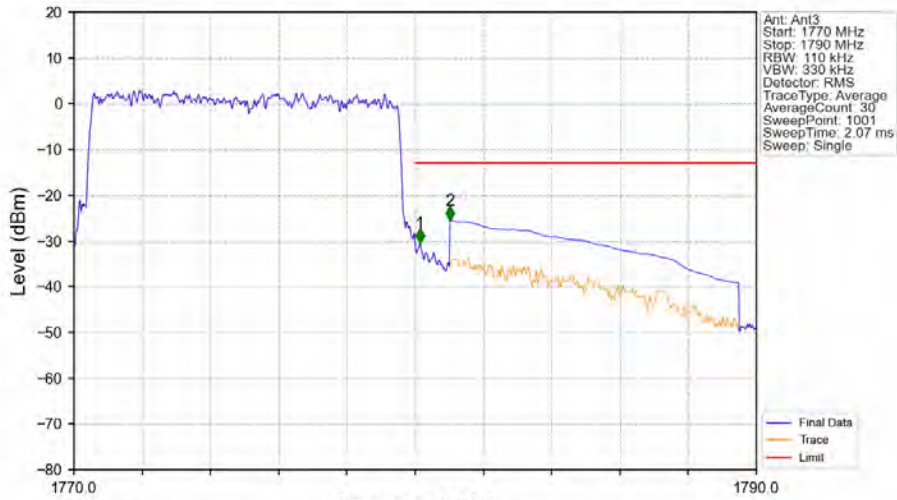
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 317 of 392

Band66_10MHz_16QAM_HCH_1775MHz_RB_50_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1770 | 1780 | 0.11 | / | / | / | / | / | / |
| 1780 | 1781 | 0.11 | / | 1 | 1780.140 | -30.40 | -13 | Pass |
| 1781 | 1790 | 1 | CHP | 2 | 1781.020 | -25.55 | -13 | Pass |



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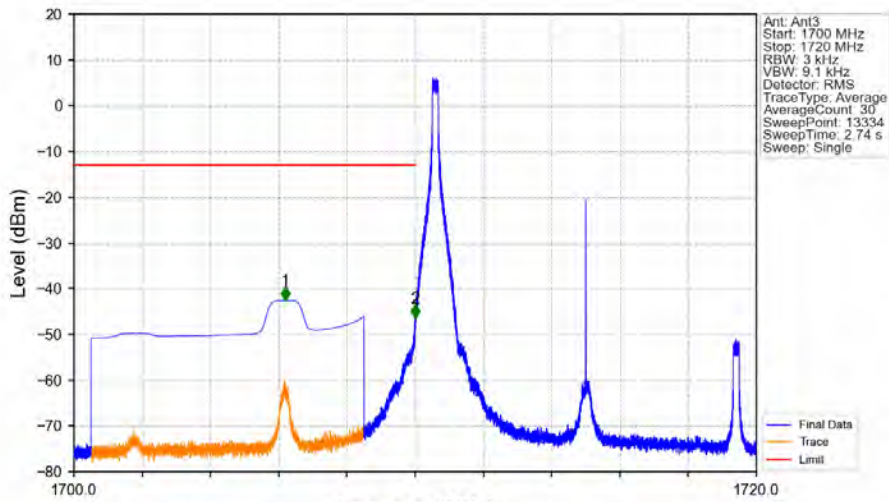
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 318 of 392

Band66_10MHz_64QAM_LCH_1715MHz_RB_1_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1700 | 1709 | 1 | CHP | 1 | 1706.194 | -42.62 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.999 | -46.46 | -13 | Pass |
| 1710 | 1720 | 0.003 | / | / | / | / | / | / |

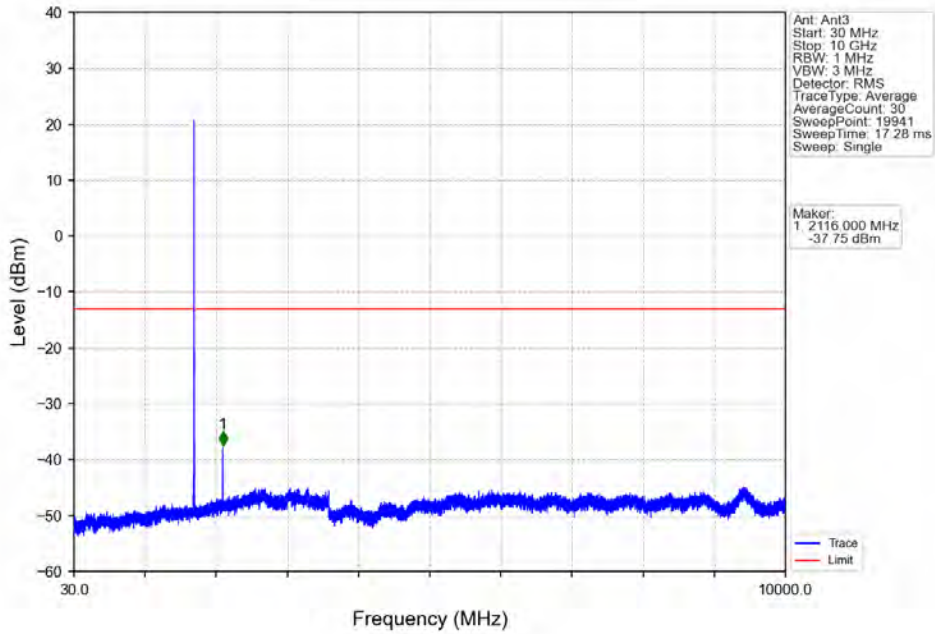


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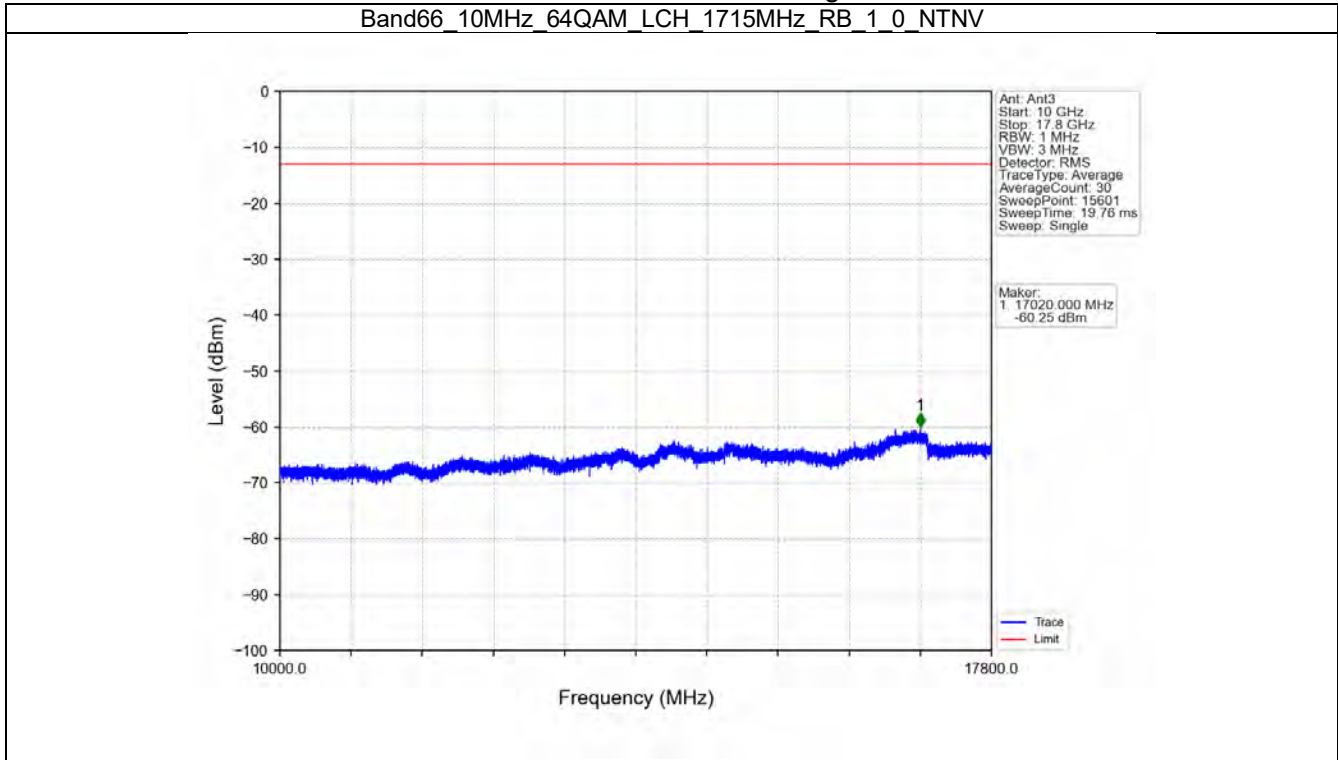


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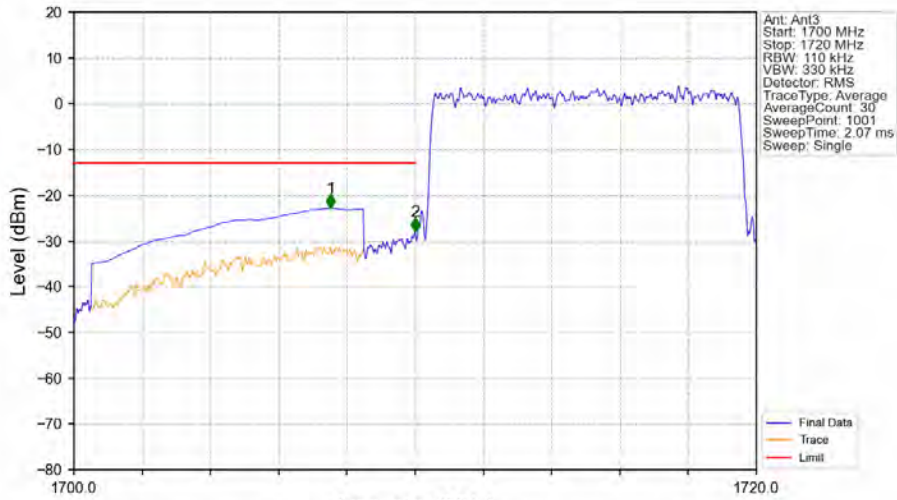
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 321 of 392

Band66_10MHz_64QAM_LCH_1715MHz_RB_50_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1700 | 1709 | 1 | CHP | 1 | 1707.520 | -22.88 | -13 | Pass |
| 1709 | 1710 | 0.11 | / | 2 | 1710.000 | -27.96 | -13 | Pass |
| 1710 | 1720 | 0.11 | / | / | / | / | / | / |

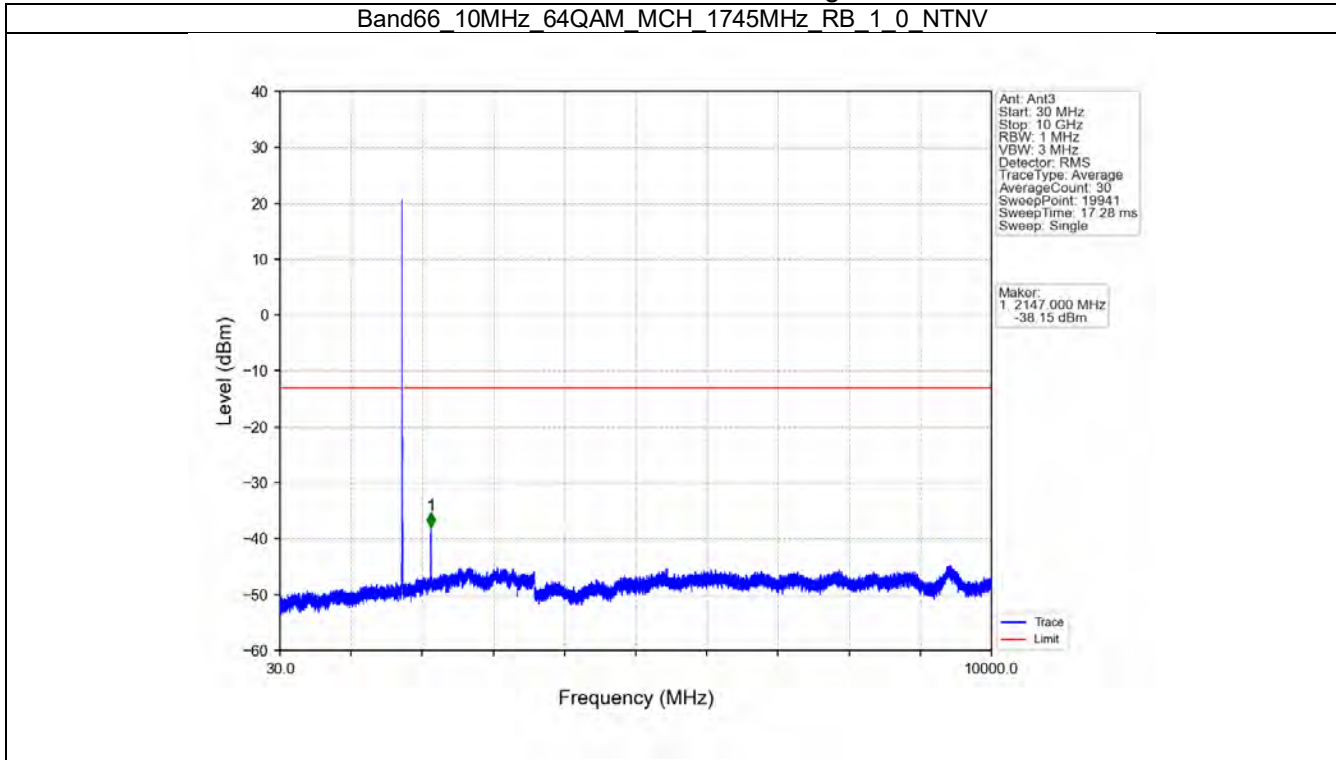


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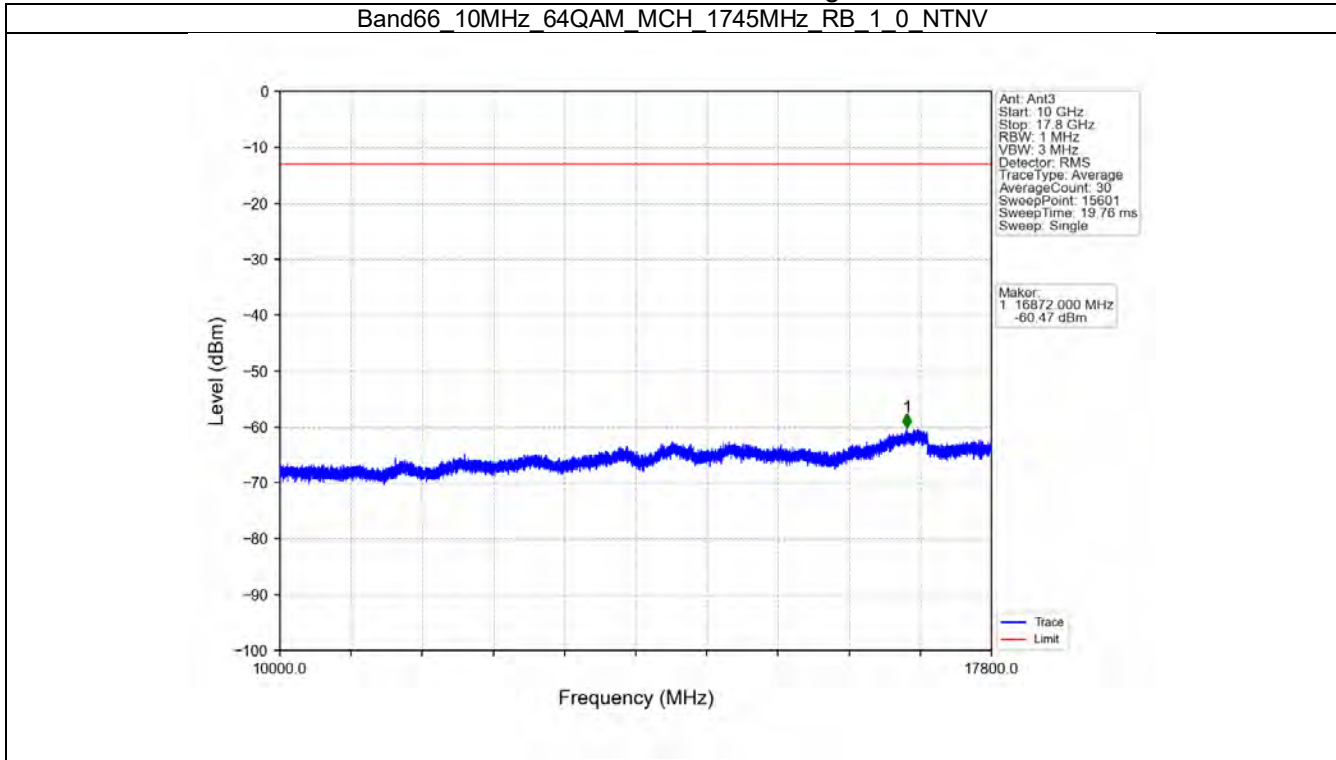
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Rev.: 01

Page: 323 of 392

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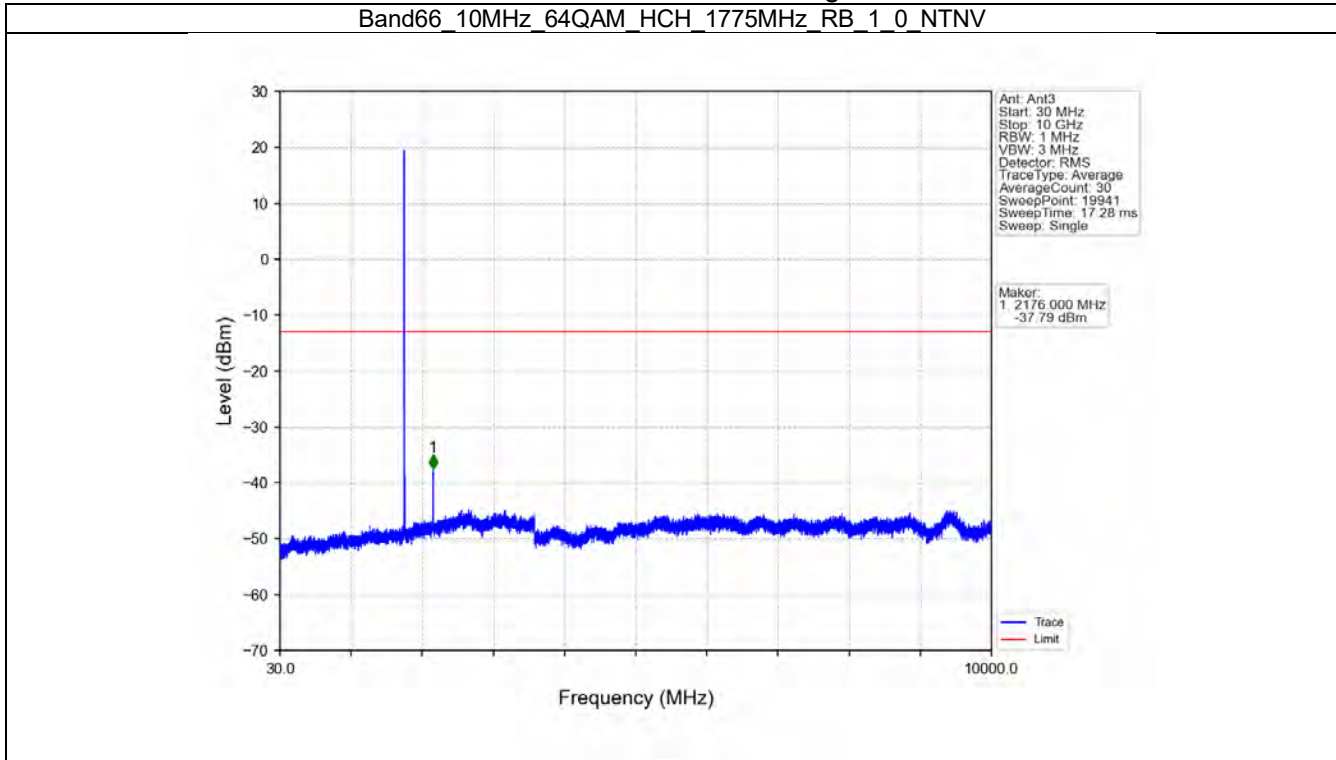
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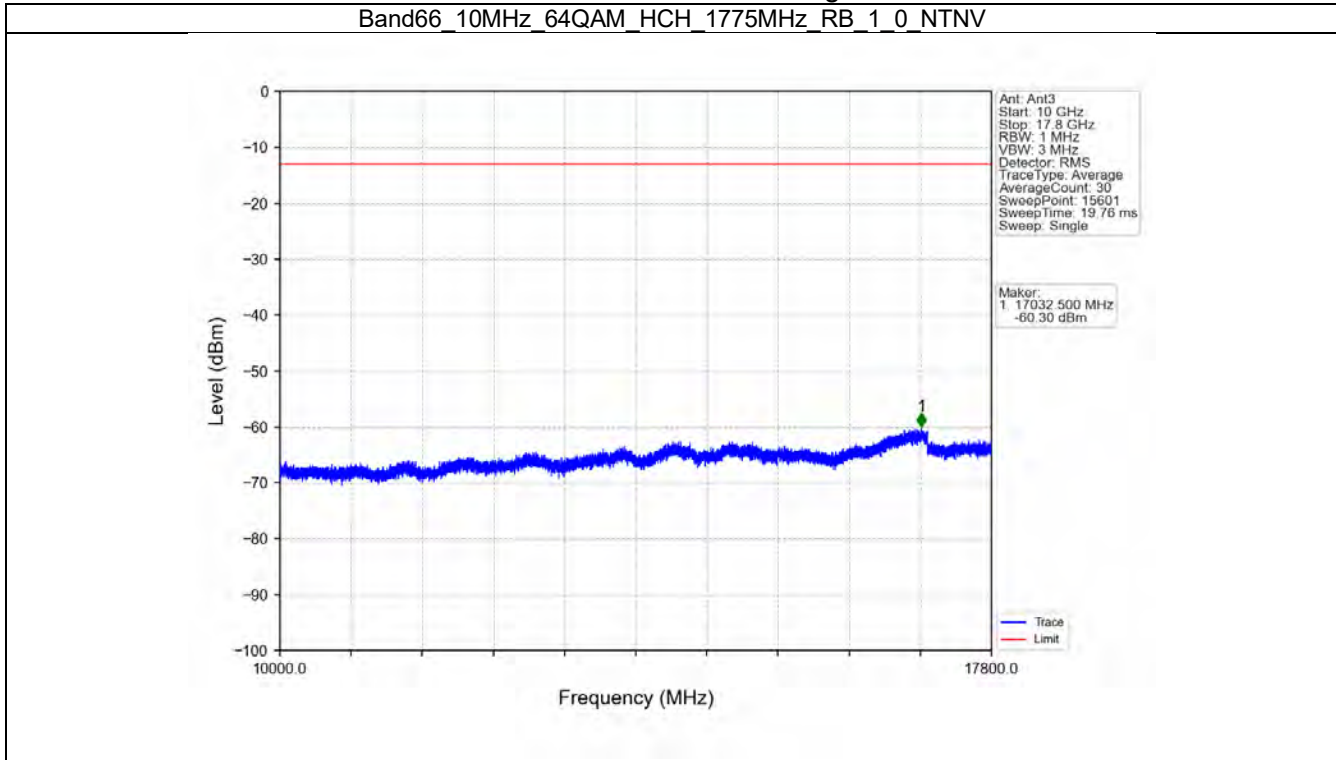


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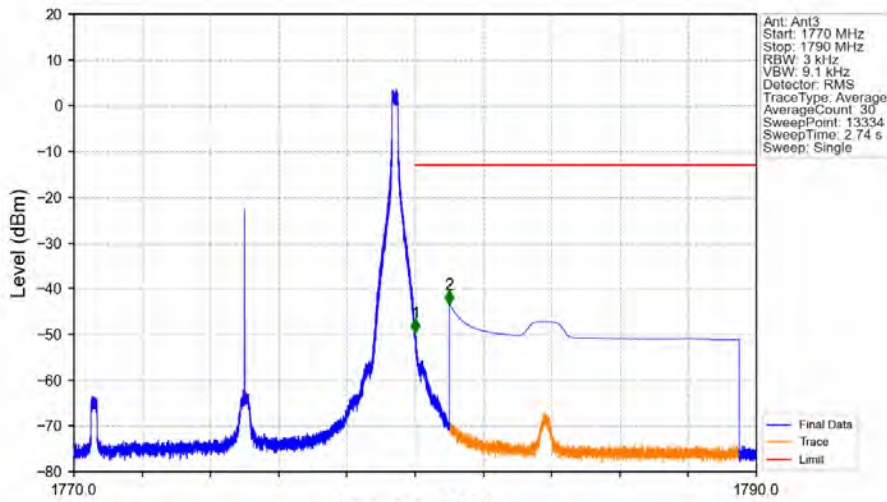
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 326 of 392

Band66_10MHz_64QAM_HCH_1775MHz_RB_1_49_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1770 | 1780 | 0.003 | / | / | / | / | / | / |
| 1780 | 1781 | 0.003 | / | 1 | 1780.002 | -49.72 | -13 | Pass |
| 1781 | 1790 | 1 | CHP | 2 | 1781.001 | -43.50 | -13 | Pass |



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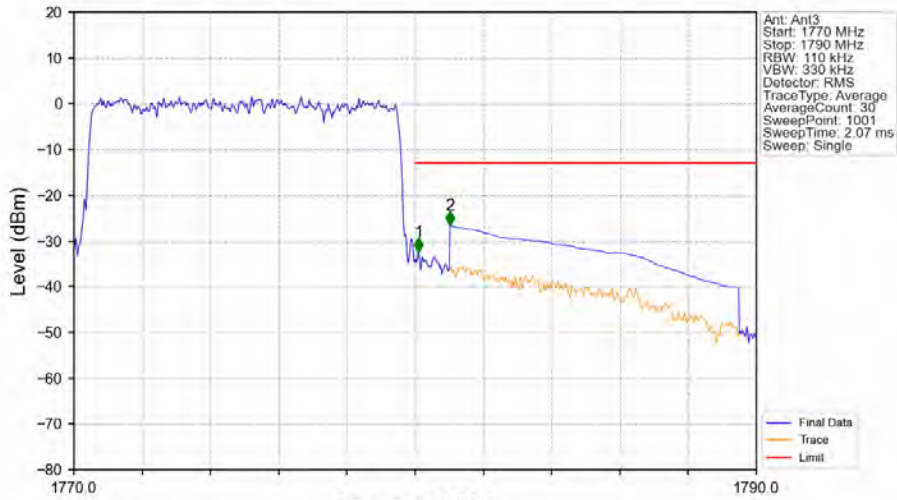
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 327 of 392

Band66_10MHz_64QAM_HCH_1775MHz_RB_50_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1770 | 1780 | 0.11 | / | / | / | / | / | / |
| 1780 | 1781 | 0.11 | / | 1 | 1780.100 | -32.34 | -13 | Pass |
| 1781 | 1790 | 1 | CHP | 2 | 1781.020 | -26.57 | -13 | Pass |

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5.5 B66_15MHz

5.5.1 Test Result

| Band: 66 / Bandwidth: 15MHz / NTVN | | | | | | |
|------------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1717.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |
| | 1772.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 74 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |
| | | | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1717.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |
| | 1772.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 74 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |
| | | | 0 | Refer To Test Graph | | Pass |
| 64QAM | 1717.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |
| | 1772.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 74 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |
| | | | 0 | Refer To Test Graph | | Pass |

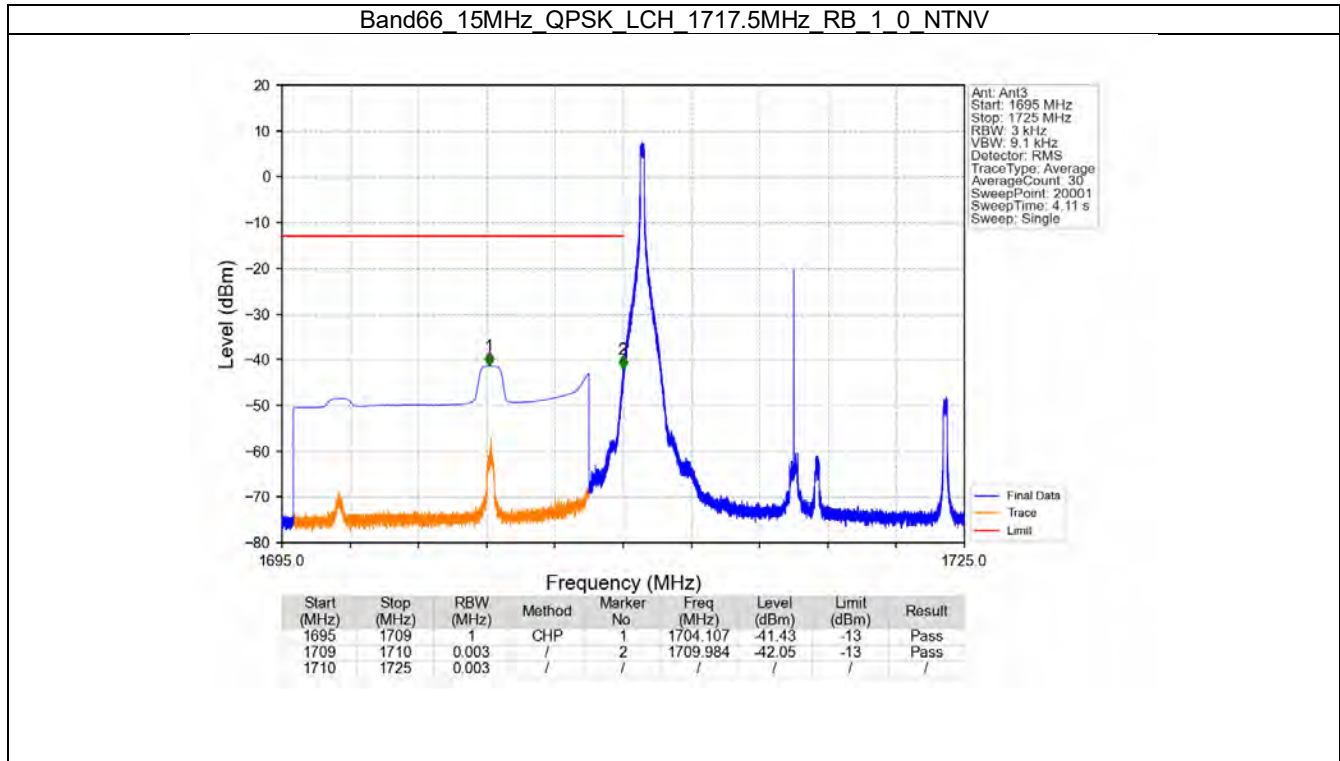


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5.5.2 Test Graph

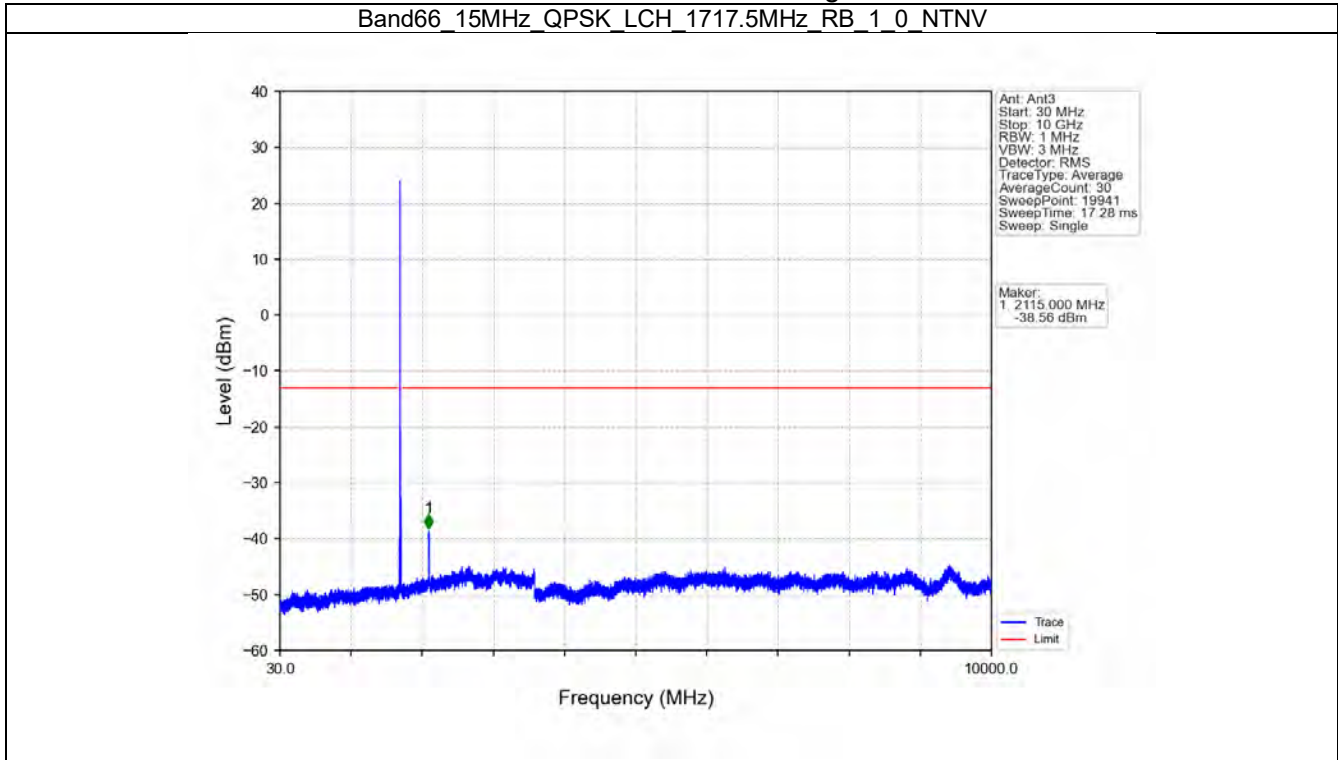


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Band66_15MHz_QPSK_LCH_1717.5MHz_RB_1_0_NTNV



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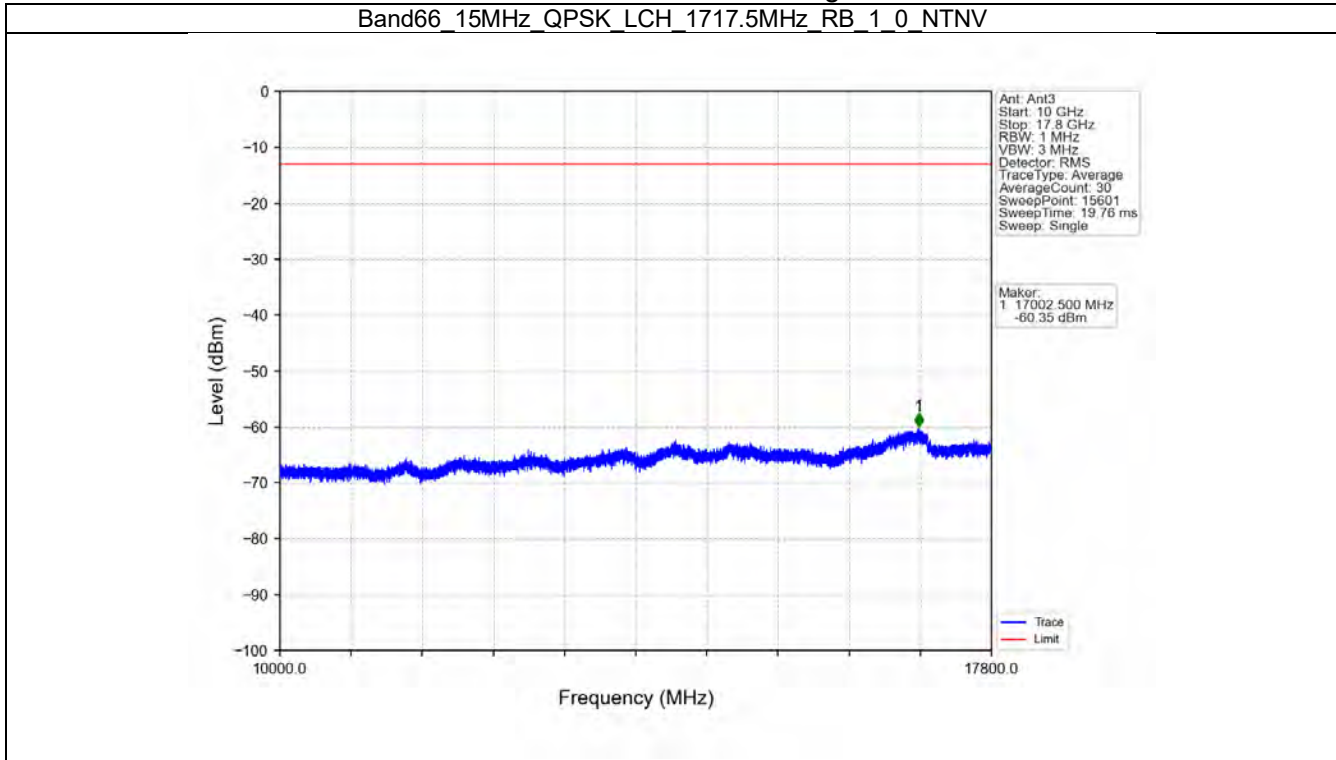
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Rev.: 01

Page: 331 of 392

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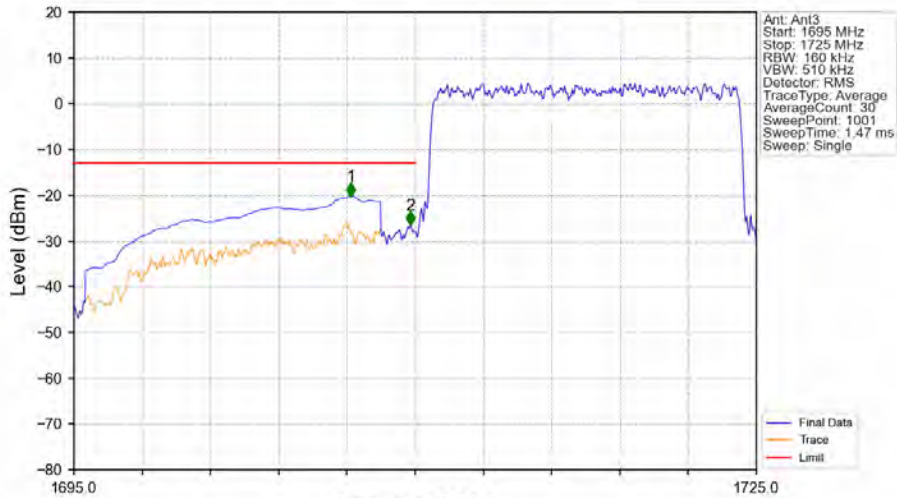


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Band66_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1695 | 1709 | 1 | CHP | 1 | 1707.180 | -20.33 | -13 | Pass |
| 1709 | 1710 | 0.16 | / | 2 | 1709.790 | -26.54 | -13 | Pass |
| 1710 | 1725 | 0.16 | / | / | / | / | / | / |

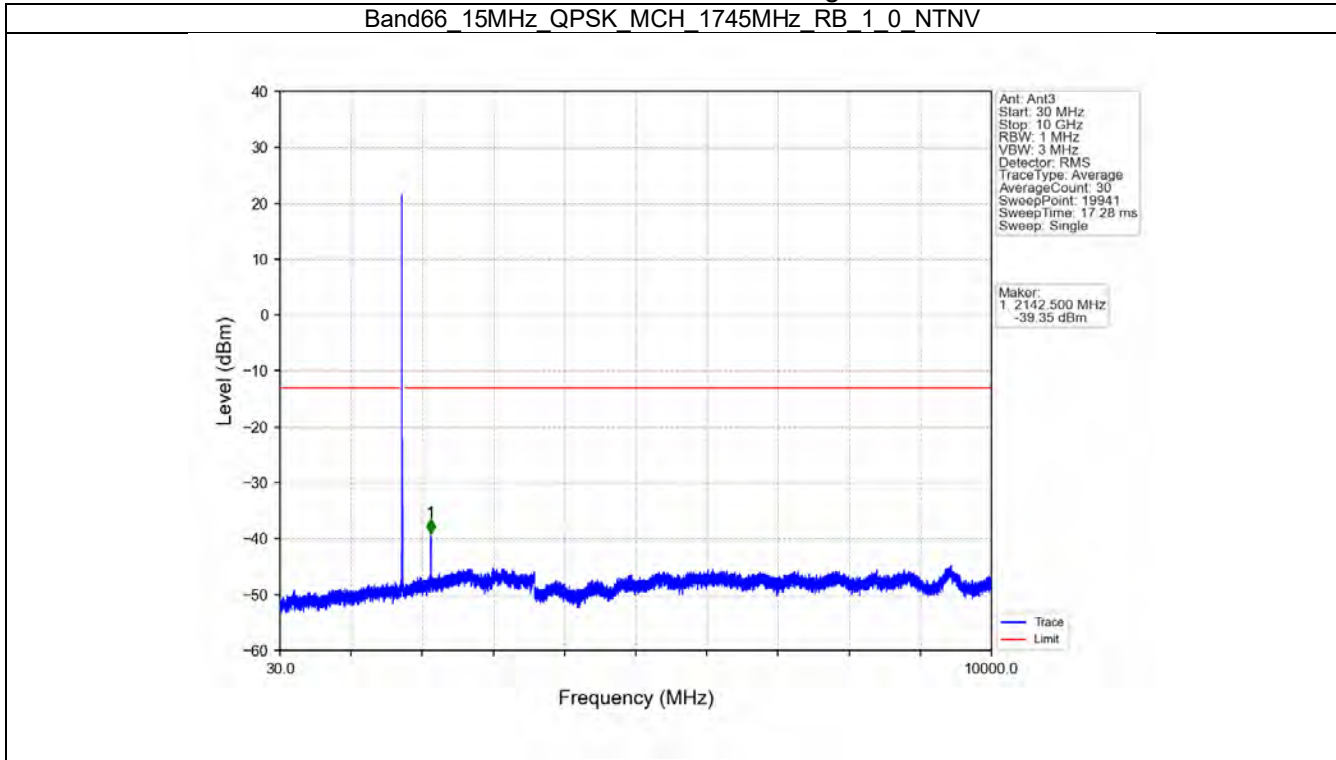


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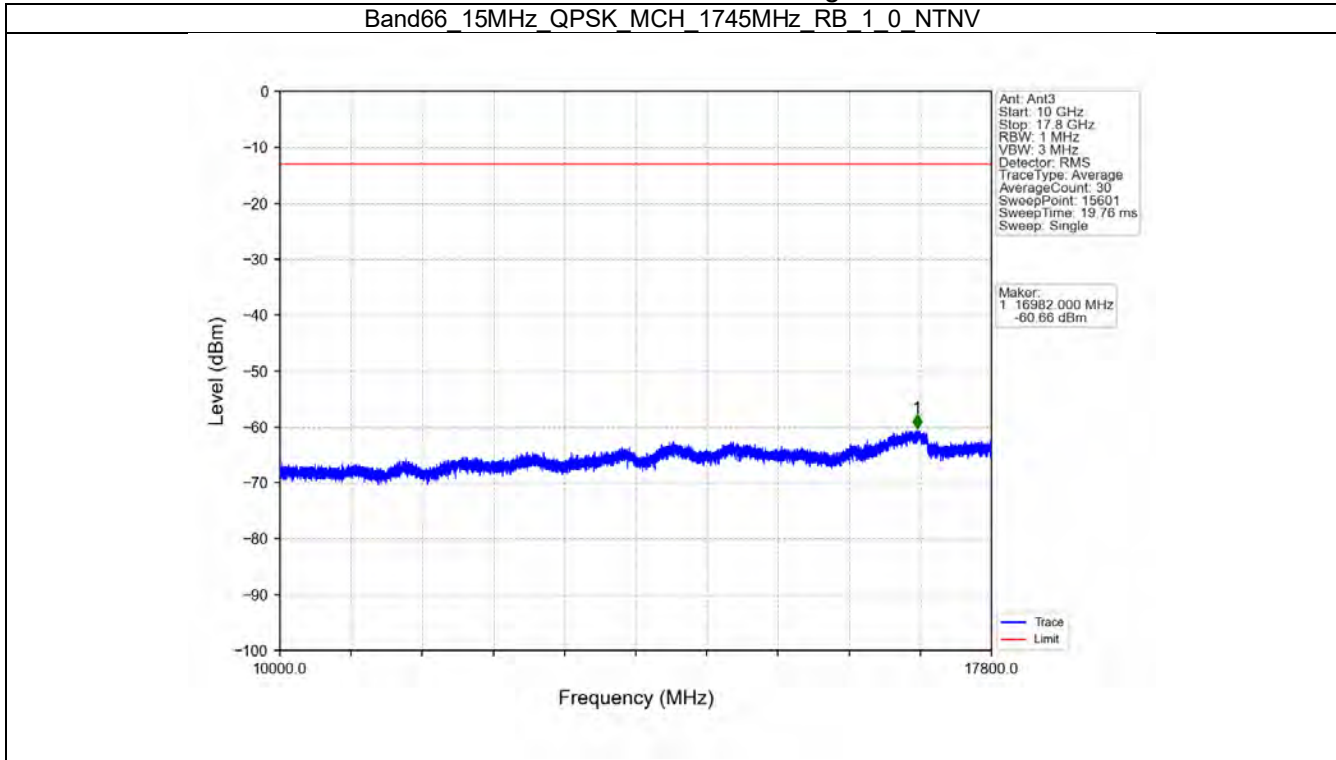
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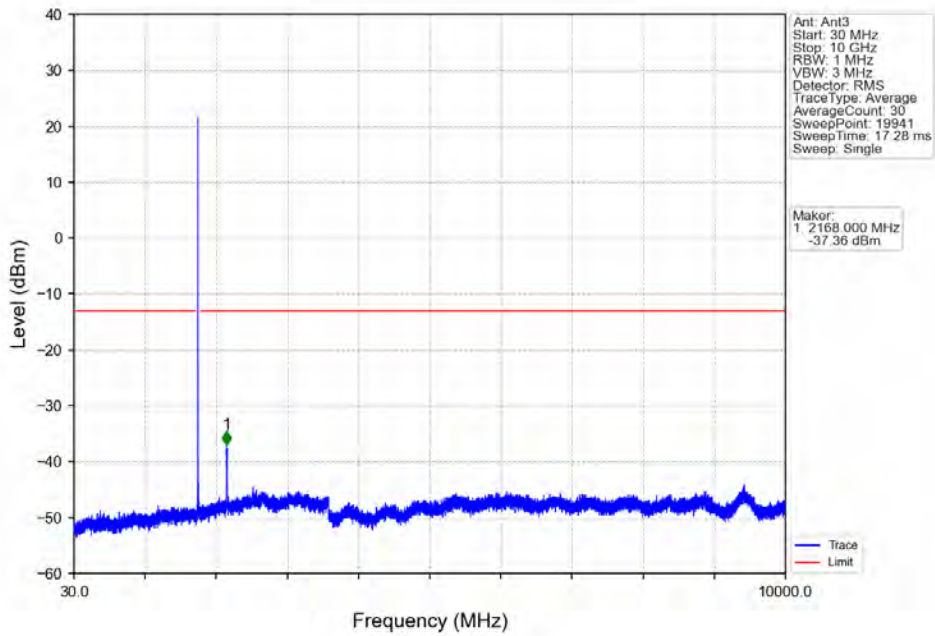


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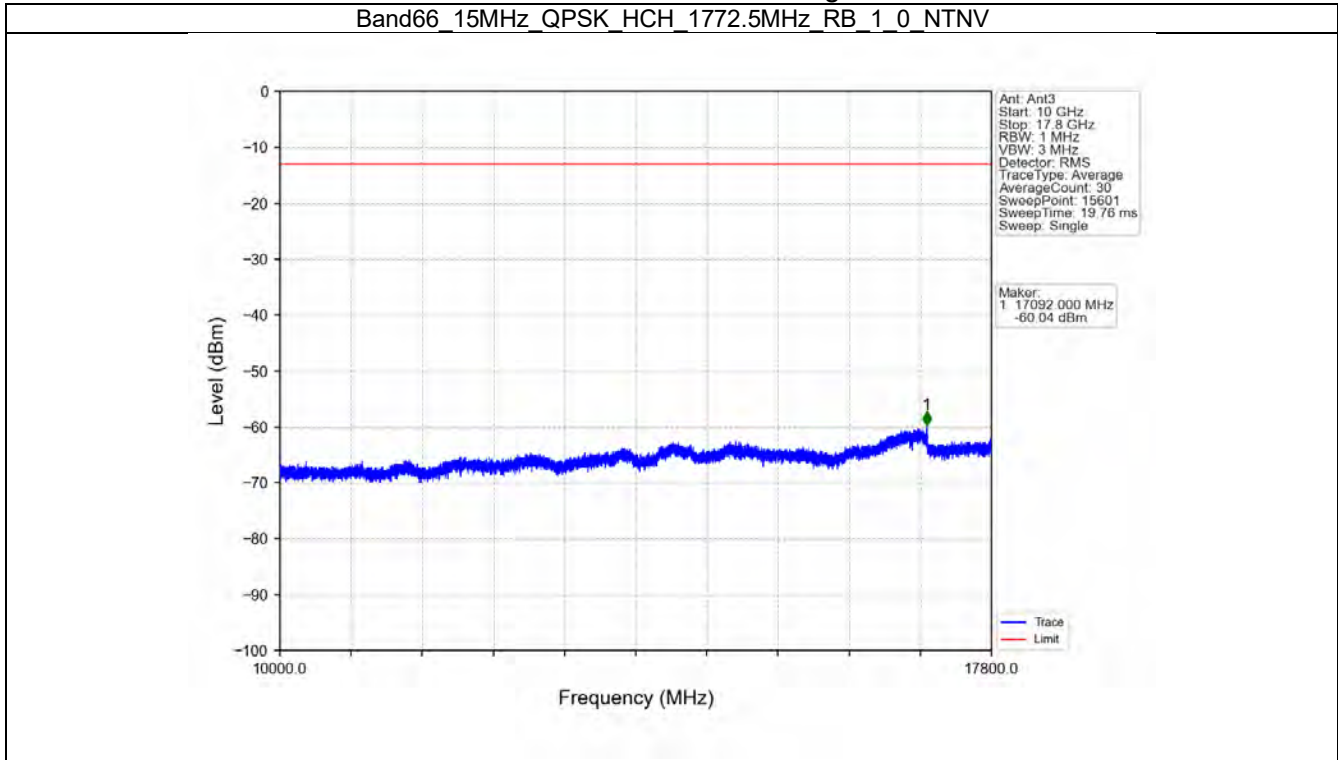
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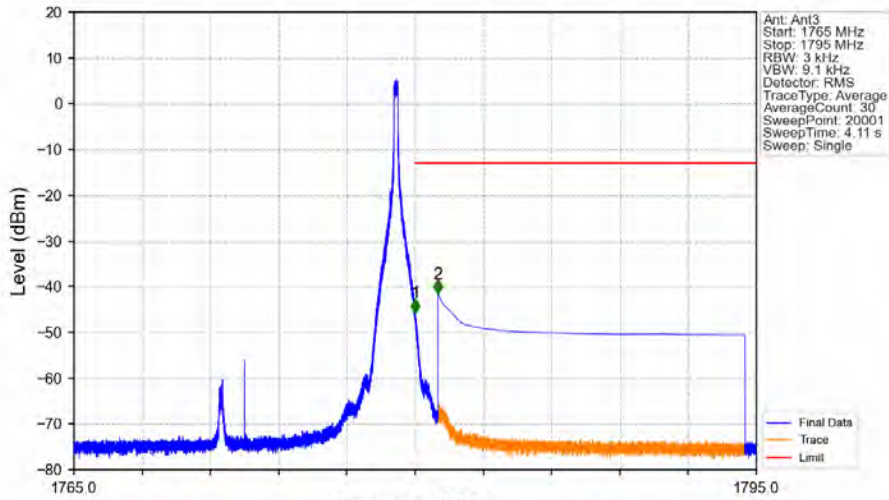
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 337 of 392

Band66 15MHz_QPSK_HCH 1772.5MHz RB 1_74 NTN



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1765 | 1780 | 0.003 | / | 1 | 1780.015 | -45.73 | -13 | Pass |
| 1781 | 1795 | 1 | CHP | 2 | 1781.001 | -41.58 | -13 | Pass |



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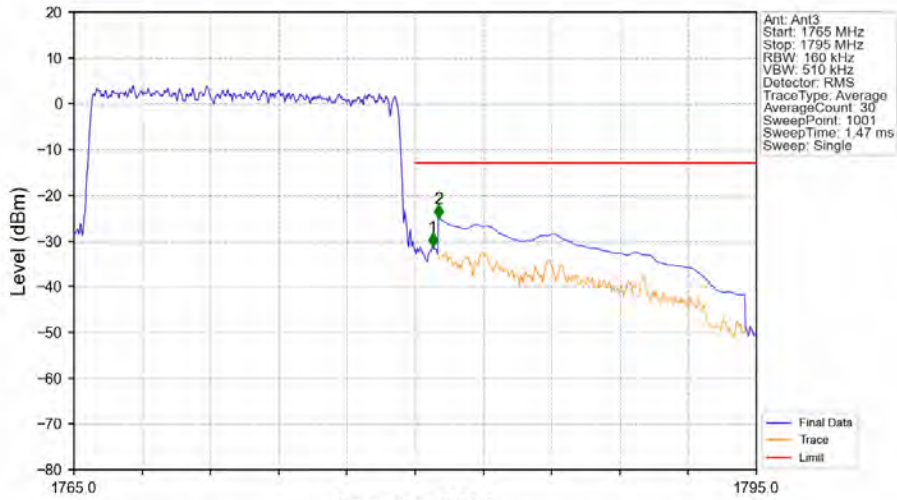
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 338 of 392

Band66_15MHz_QPSK_HCH_1772.5MHz_RB_75_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1765 | 1780 | 0.16 | / | / | / | / | / | / |
| 1780 | 1781 | 0.16 | / | 1 | 1780.780 | -31.35 | -13 | Pass |
| 1781 | 1795 | 1 | CHP | 2 | 1781.020 | -25.18 | -13 | Pass |



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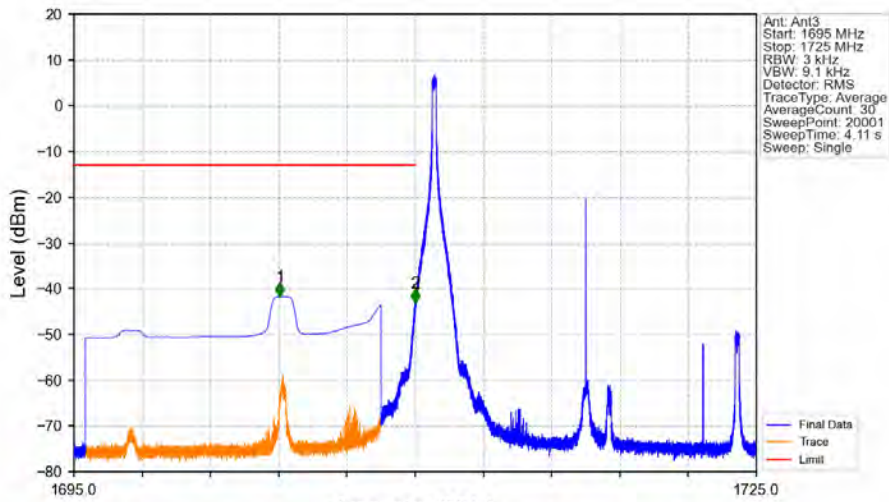
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 339 of 392

Band66_15MHz_16QAM_LCH_1717.5MHz_RB_1_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1695 | 1709 | 1 | CHP | 1 | 1704.051 | -41.75 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1710.000 | -43.14 | -13 | Pass |
| 1710 | 1725 | 0.003 | / | / | / | / | / | / |



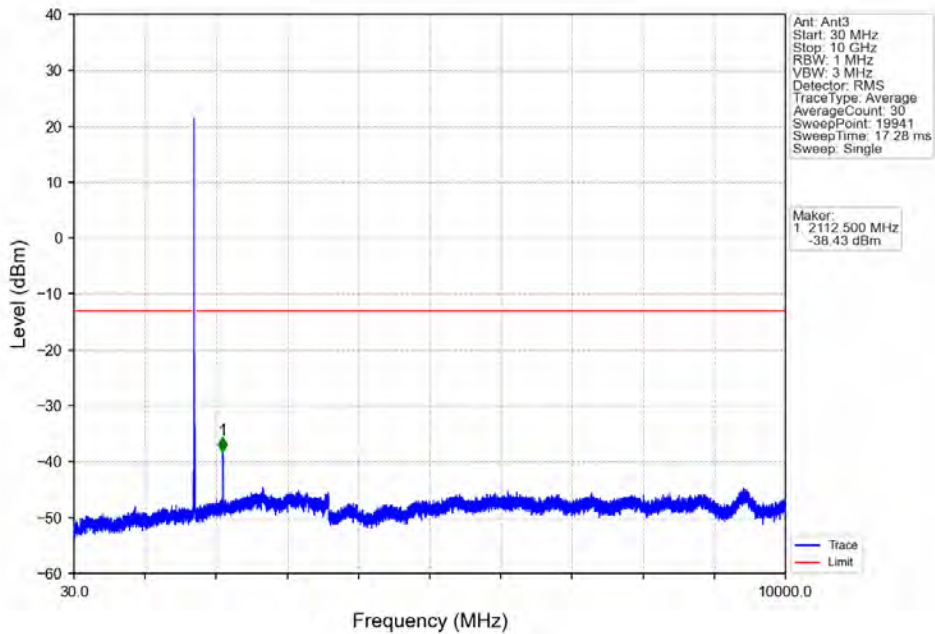
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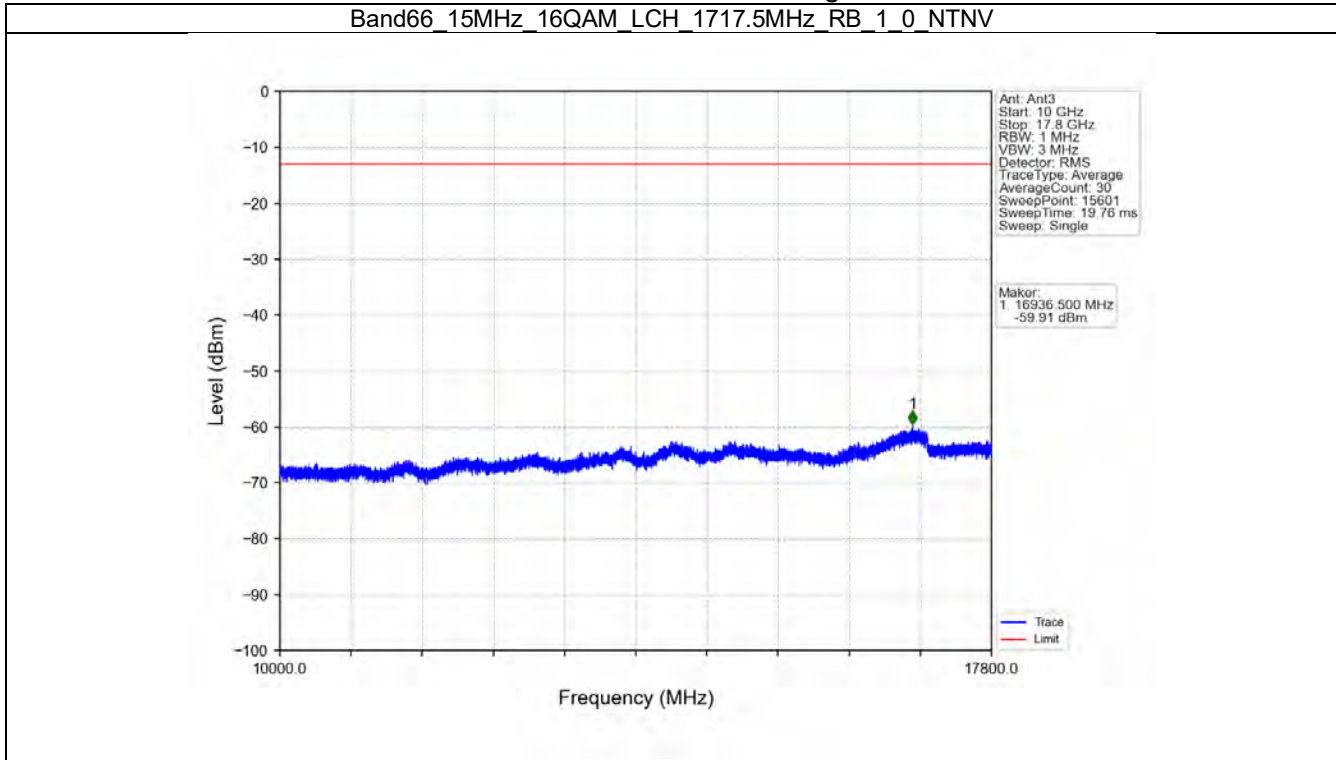


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Band66_15MHz_16QAM_LCH_1717.5MHz_RB_1_0_NTNV



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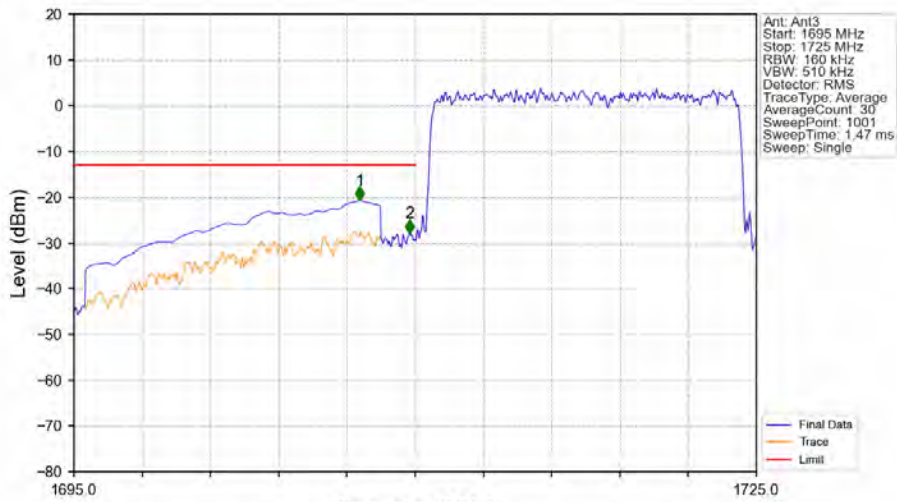
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 342 of 392

Band66_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1695 | 1709 | 1 | CHP | 1 | 1707.570 | -20.78 | -13 | Pass |
| 1709 | 1710 | 0.16 | / | 2 | 1709.760 | -27.88 | -13 | Pass |
| 1710 | 1725 | 0.16 | / | / | / | / | / | / |

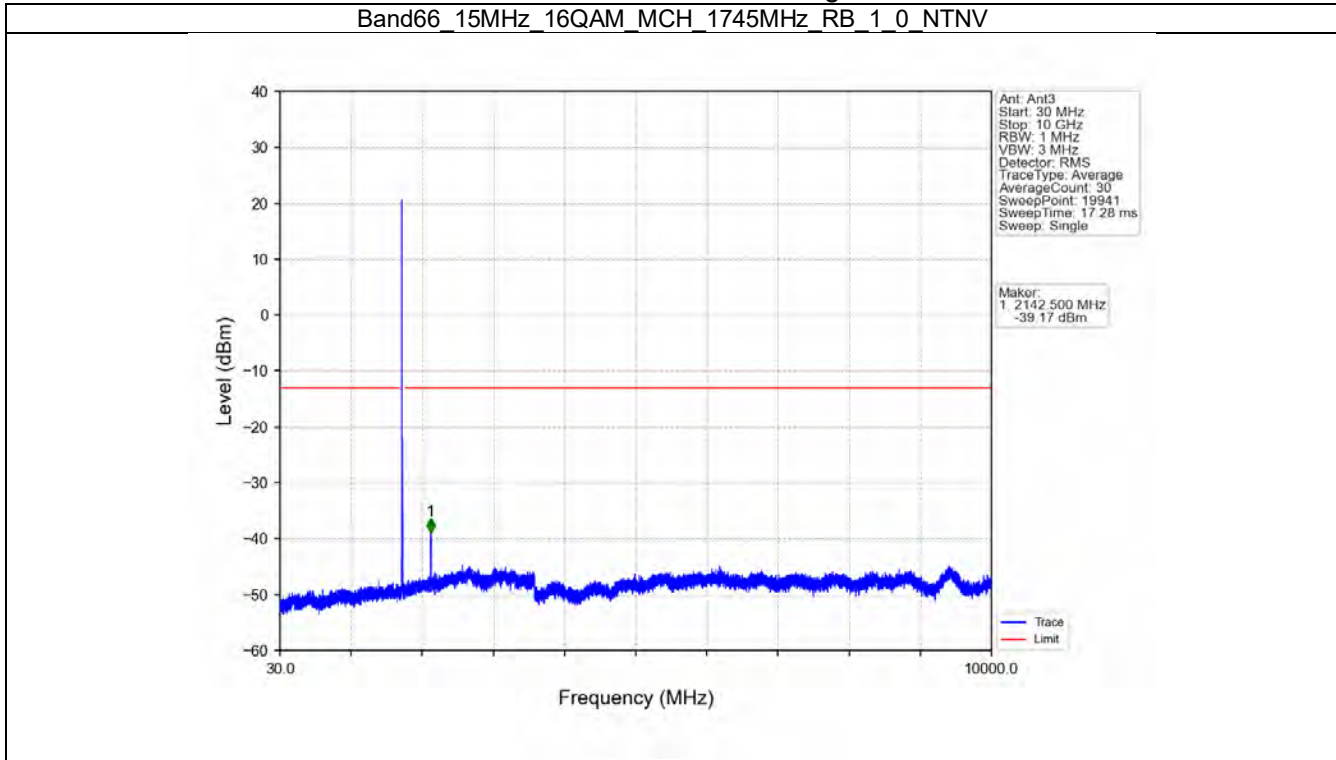


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Band66_15MHz_16QAM_MCH_1745MHz_RB_1_0_NTNV



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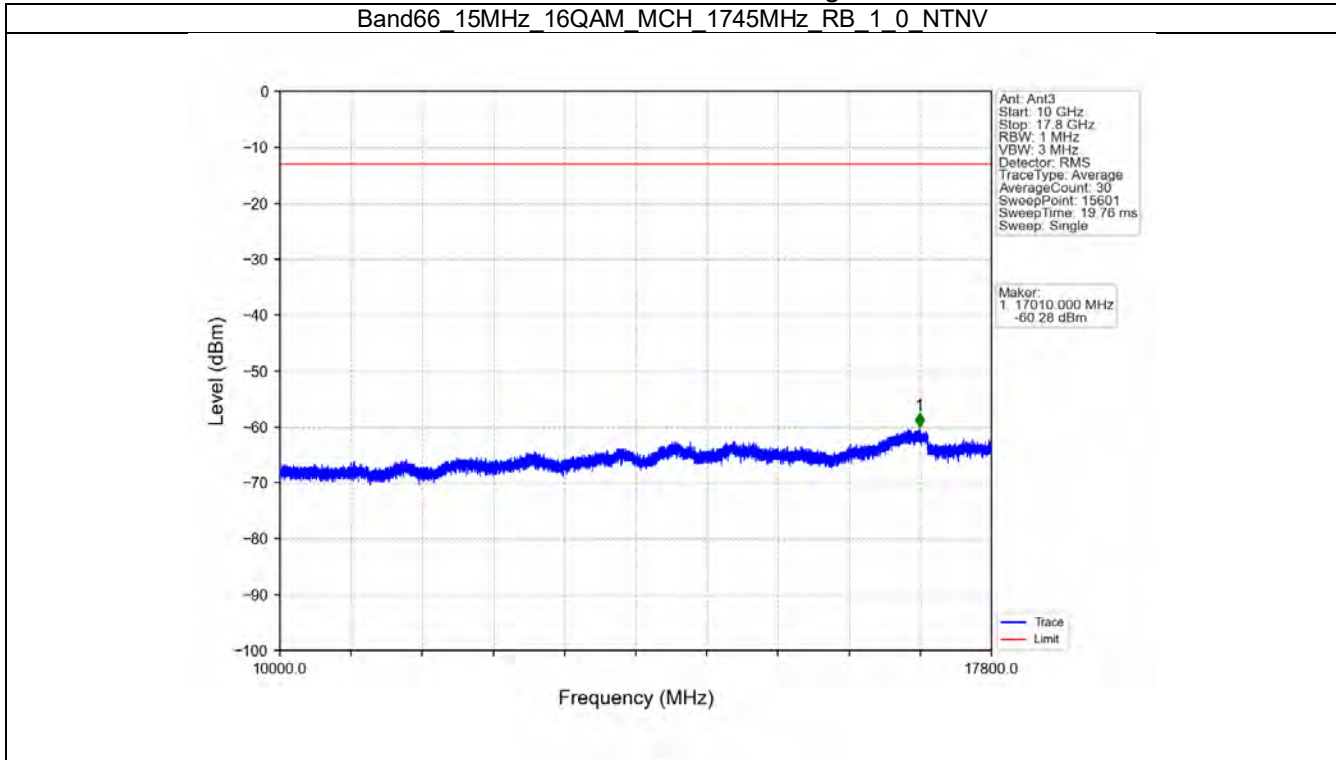
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 344 of 392

Band66_15MHz_16QAM_MCH_1745MHz_RB_1_0_NTNV



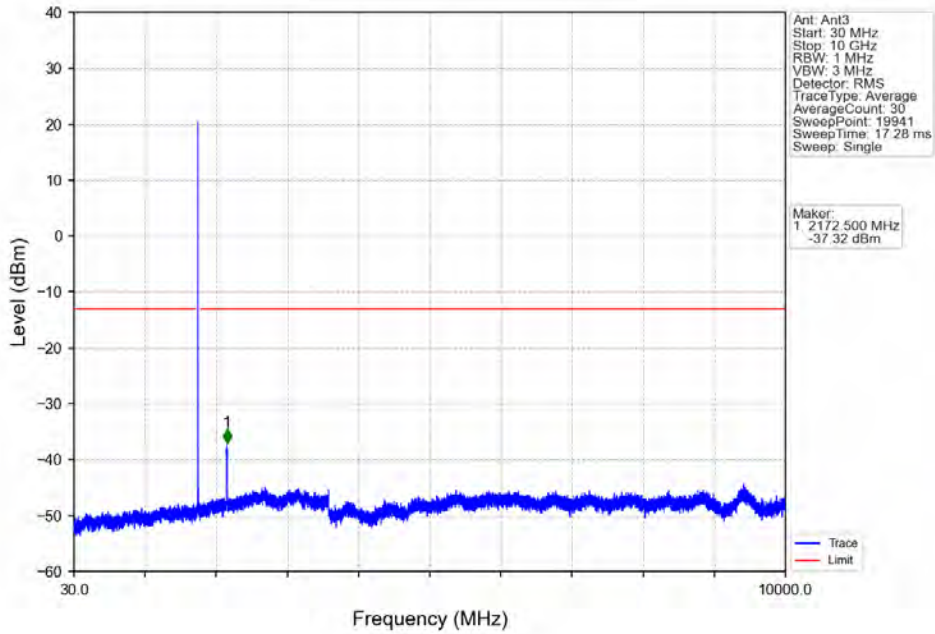
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Band66_15MHz_16QAM_HCH_1772.5MHz_RB_1_0_NTNV



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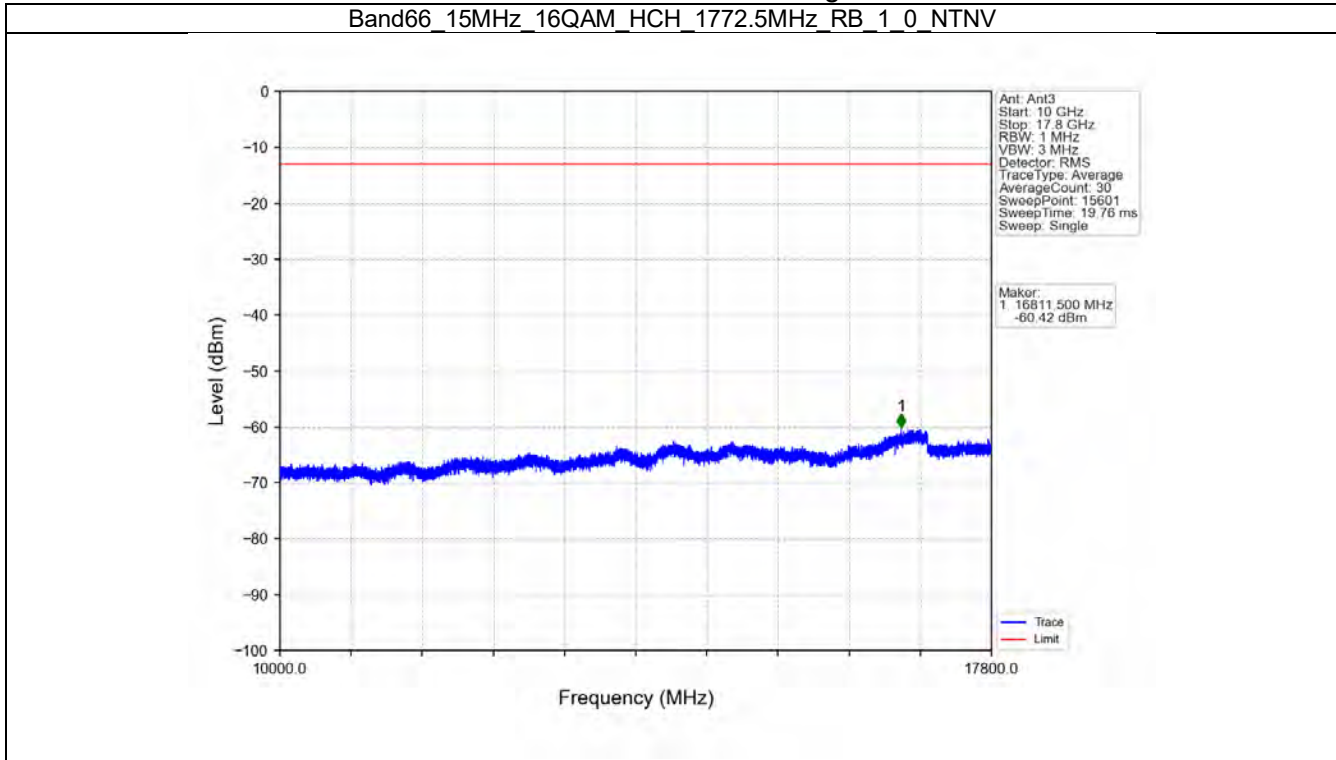
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Rev.: 01

Page: 346 of 392

Band66_15MHz_16QAM_HCH_1772.5MHz_RB_1_0_NTNV



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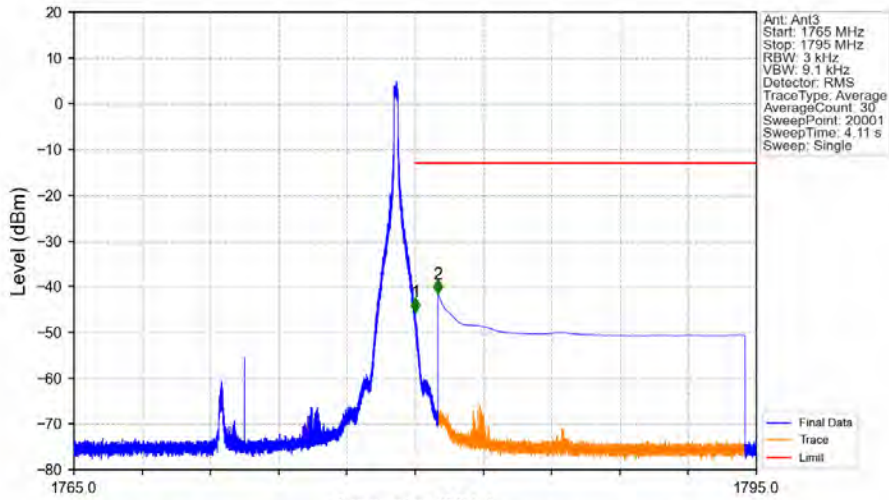
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Rev.: 01

Page: 347 of 392

Band66_15MHz_16QAM_HCH_1772.5MHz_RB_1_74_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1765 | 1780 | 0.003 | / | 1 | 1780.005 | -45.55 | -13 | Pass |
| 1781 | 1795 | 1 | CHP | 2 | 1781.001 | -41.60 | -13 | Pass |



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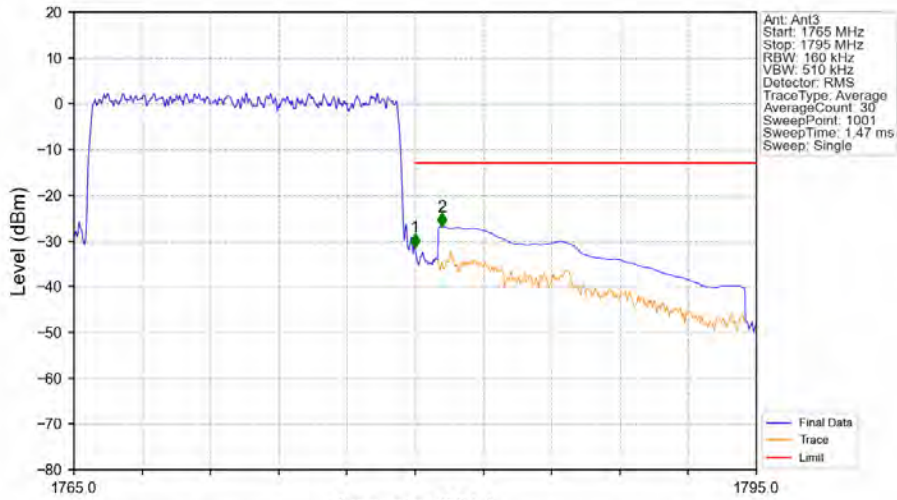
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 348 of 392

Band66_15MHz_16QAM_HCH_1772.5MHz_RB_75_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1765 | 1780 | 0.16 | / | 1 | 1780.000 | -31.42 | -13 | Pass |
| 1781 | 1795 | 1 | CHP | 2 | 1781.170 | -26.87 | -13 | Pass |



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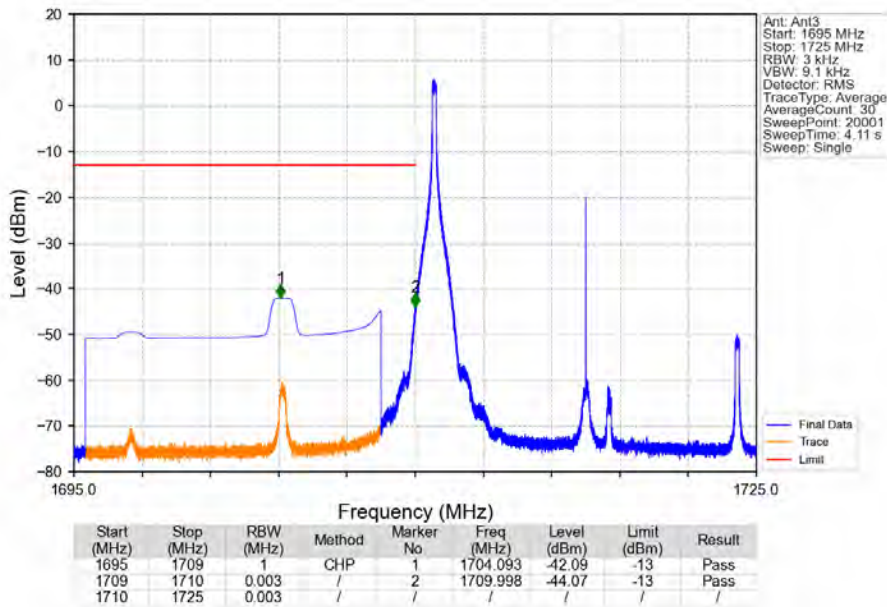
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 349 of 392

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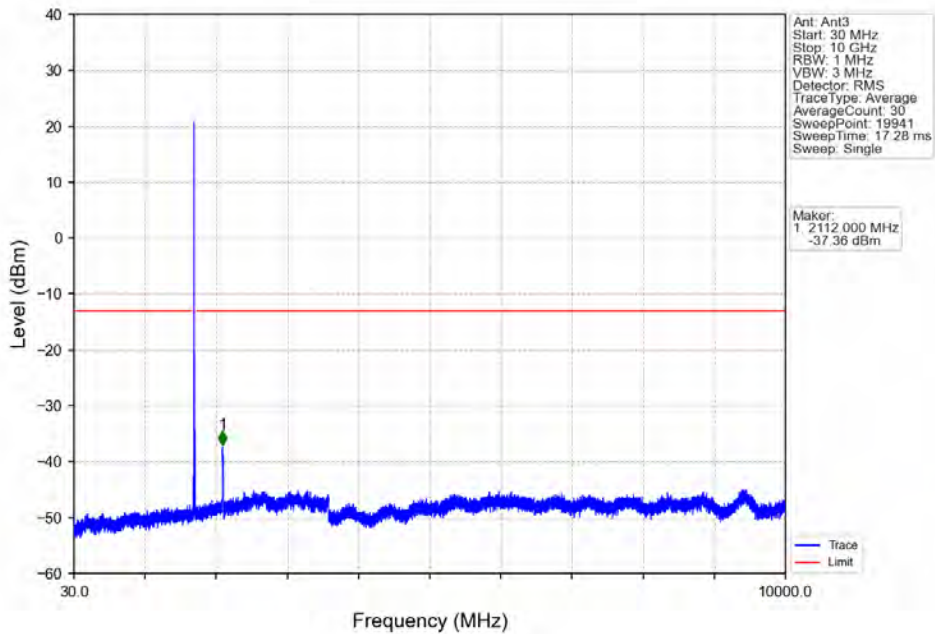
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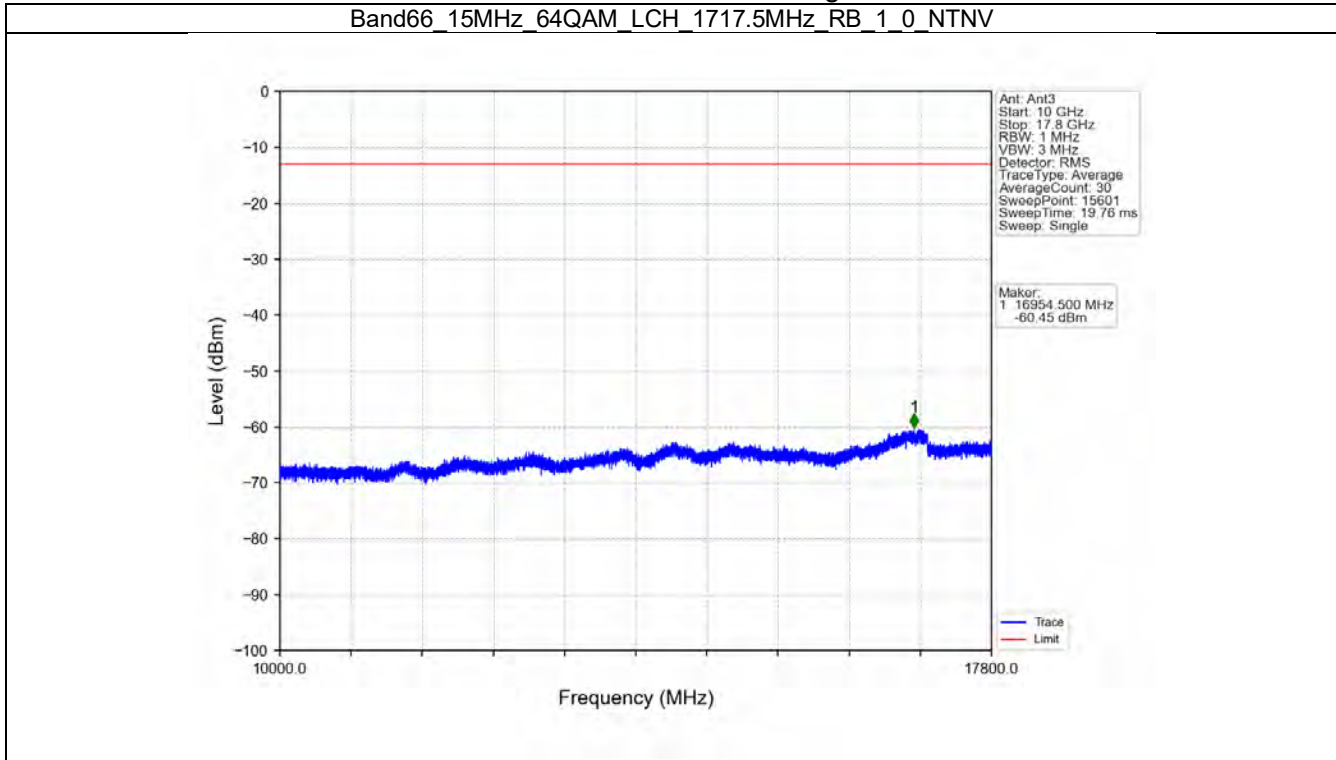


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Band66_15MHz_64QAM_LCH_1717.5MHz_RB_1_0_NTNV



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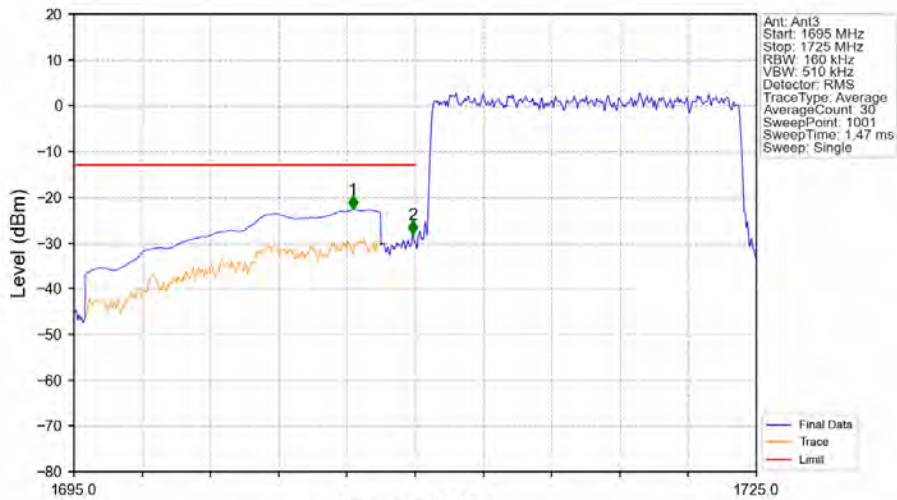
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 352 of 392

Band66_15MHz_64QAM_LCH_1717.5MHz_RB_75_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1695 | 1709 | 1 | CHP | 1 | 1707.270 | -22.72 | -13 | Pass |
| 1709 | 1710 | 0.16 | / | 2 | 1709.910 | -28.20 | -13 | Pass |
| 1710 | 1725 | 0.16 | / | / | / | / | / | / |

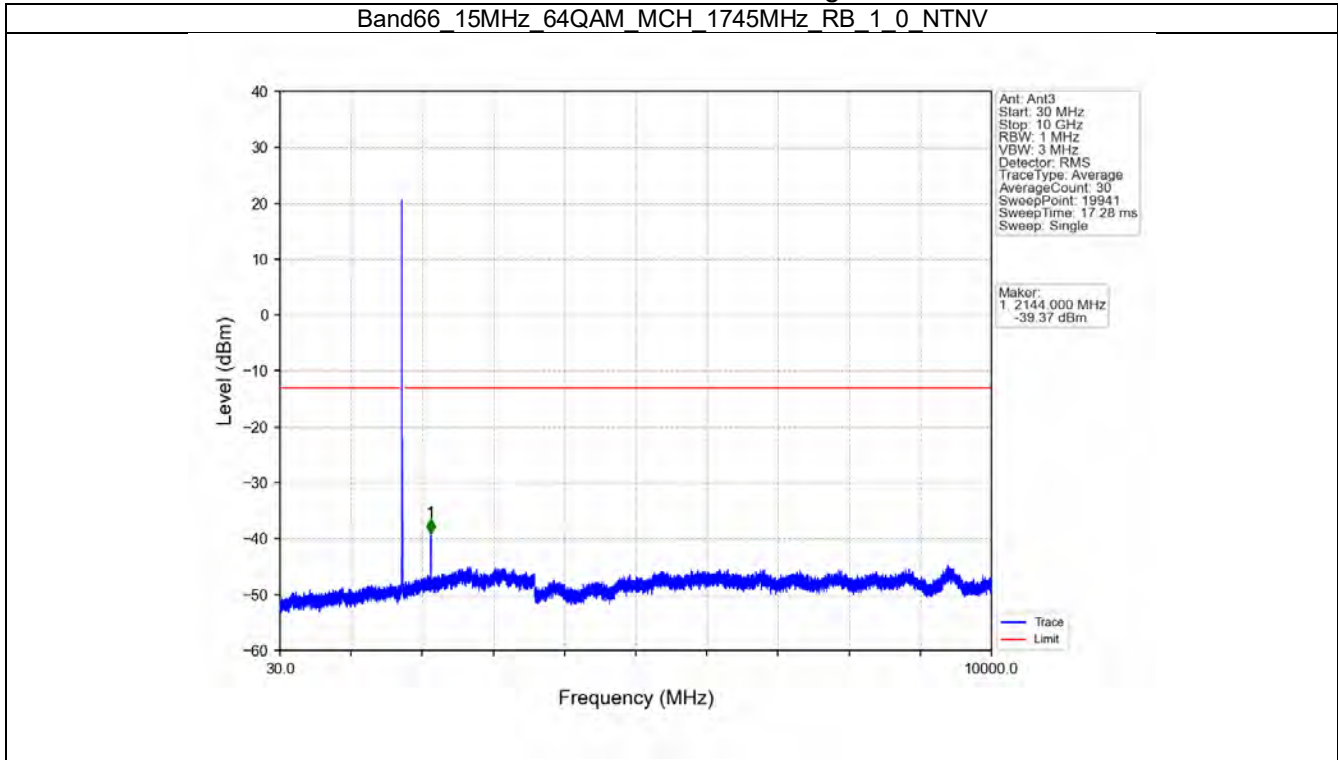


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Band66_15MHz_64QAM_MCH_1745MHz_RB_1_0_NTNV



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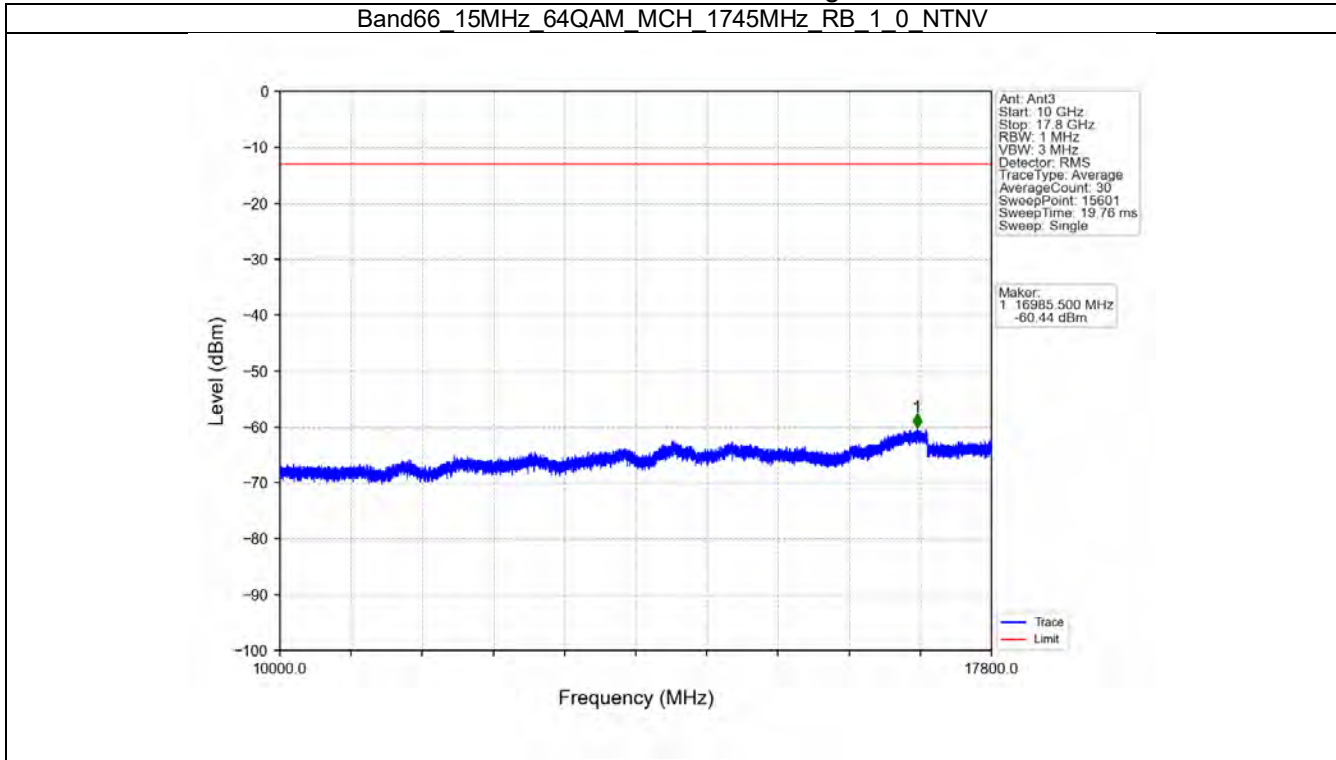
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Rev.: 01

Page: 354 of 392

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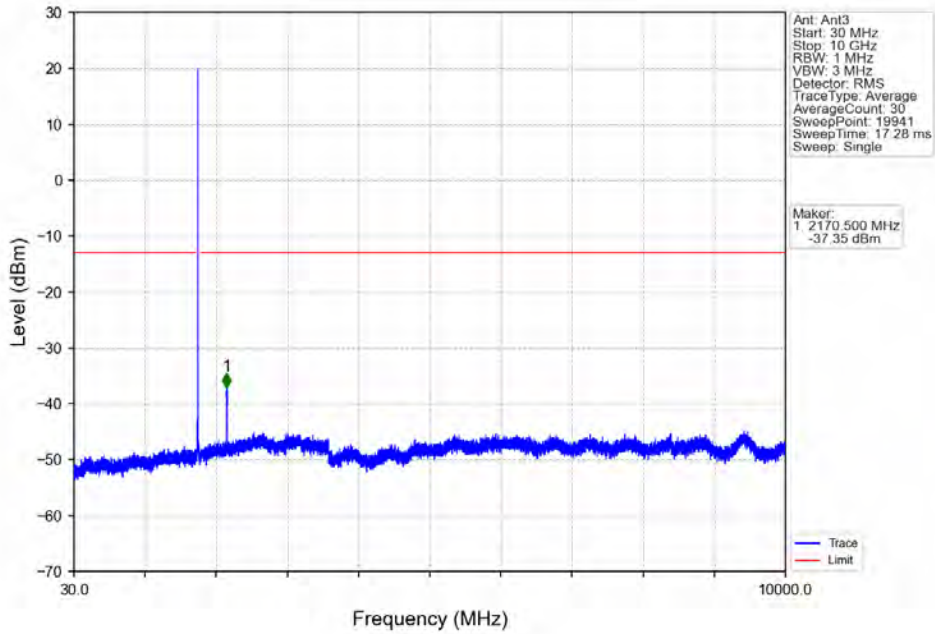
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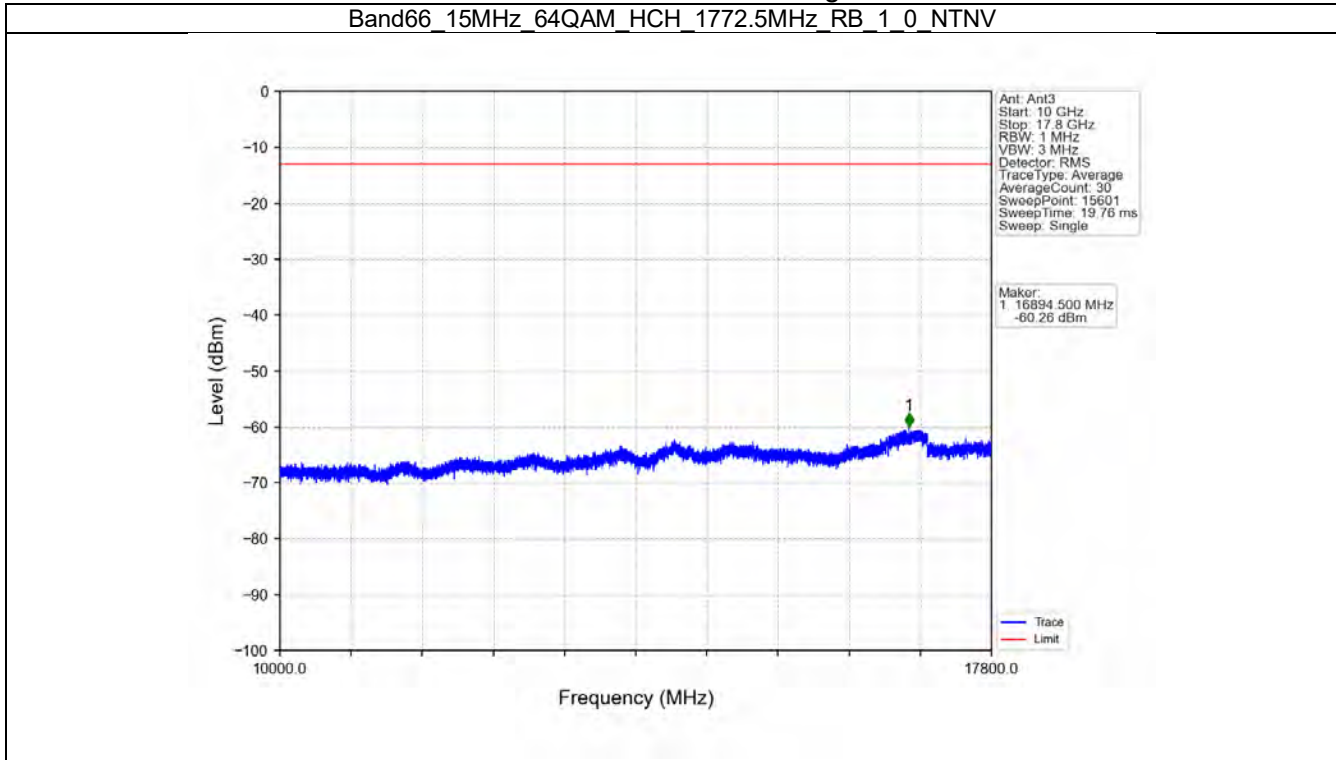


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Band66_15MHz_64QAM_HCH_1772.5MHz_RB_1_0_NTNV



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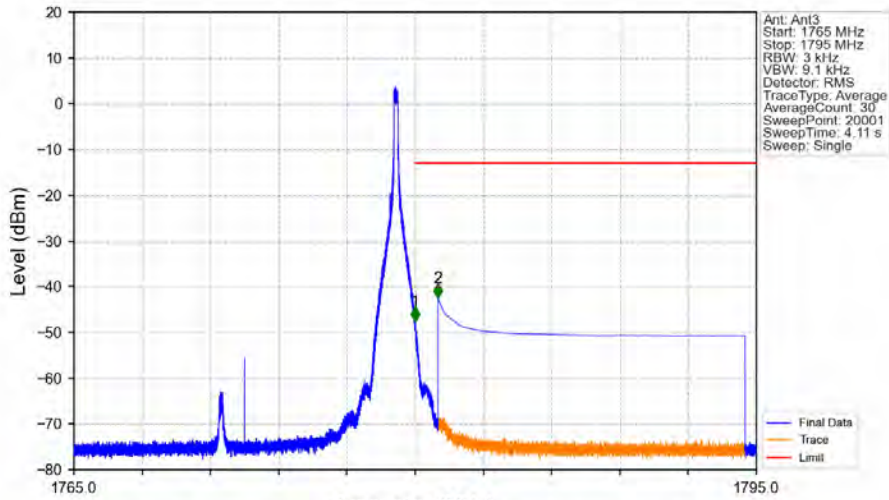
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 357 of 392

Band66_15MHz_64QAM_HCH_1772.5MHz_RB_1_74_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1765 | 1780 | 0.003 | / | 1 | 1780.002 | -47.51 | -13 | Pass |
| 1781 | 1795 | 1 | CHP | 2 | 1781.001 | -42.50 | -13 | Pass |



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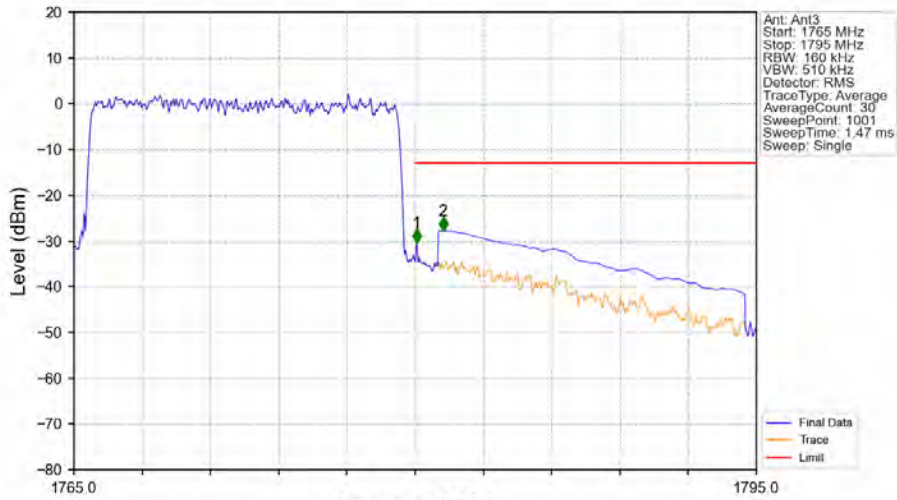
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Rev.: 01

Page: 358 of 392

Band66_15MHz_64QAM_HCH_1772.5MHz_RB_75_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 1765 | 1780 | 0.16 | / | 1 | 1780.060 | -30.51 | -13 | Pass |
| 1781 | 1795 | 1 | CHP | 2 | 1781.230 | -27.80 | -13 | Pass |



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5.6 B66_20MHz

5.6.1 Test Result

| Band: 66 / Bandwidth: 20MHz / NTVN | | | | | | |
|------------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1720 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 100 | 0 | Refer To Test Graph | | Pass |
| | 1770 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 99 | Refer To Test Graph | | Pass |
| | | 100 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1720 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 100 | 0 | Refer To Test Graph | | Pass |
| | 1770 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 99 | Refer To Test Graph | | Pass |
| | | 100 | 0 | Refer To Test Graph | | Pass |
| 64QAM | 1720 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 100 | 0 | Refer To Test Graph | | Pass |
| | 1770 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 99 | Refer To Test Graph | | Pass |
| | | 100 | 0 | Refer To Test Graph | | Pass |

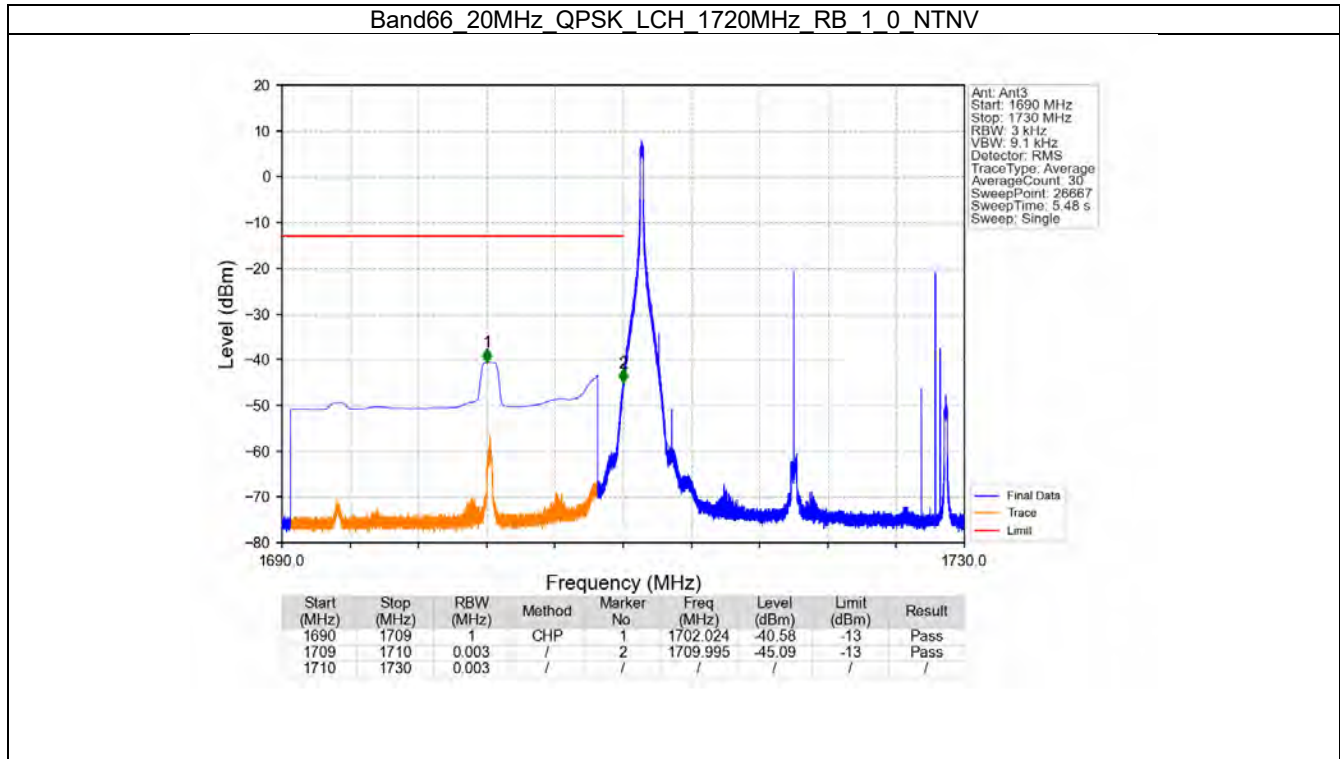


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5.6.2 Test Graph

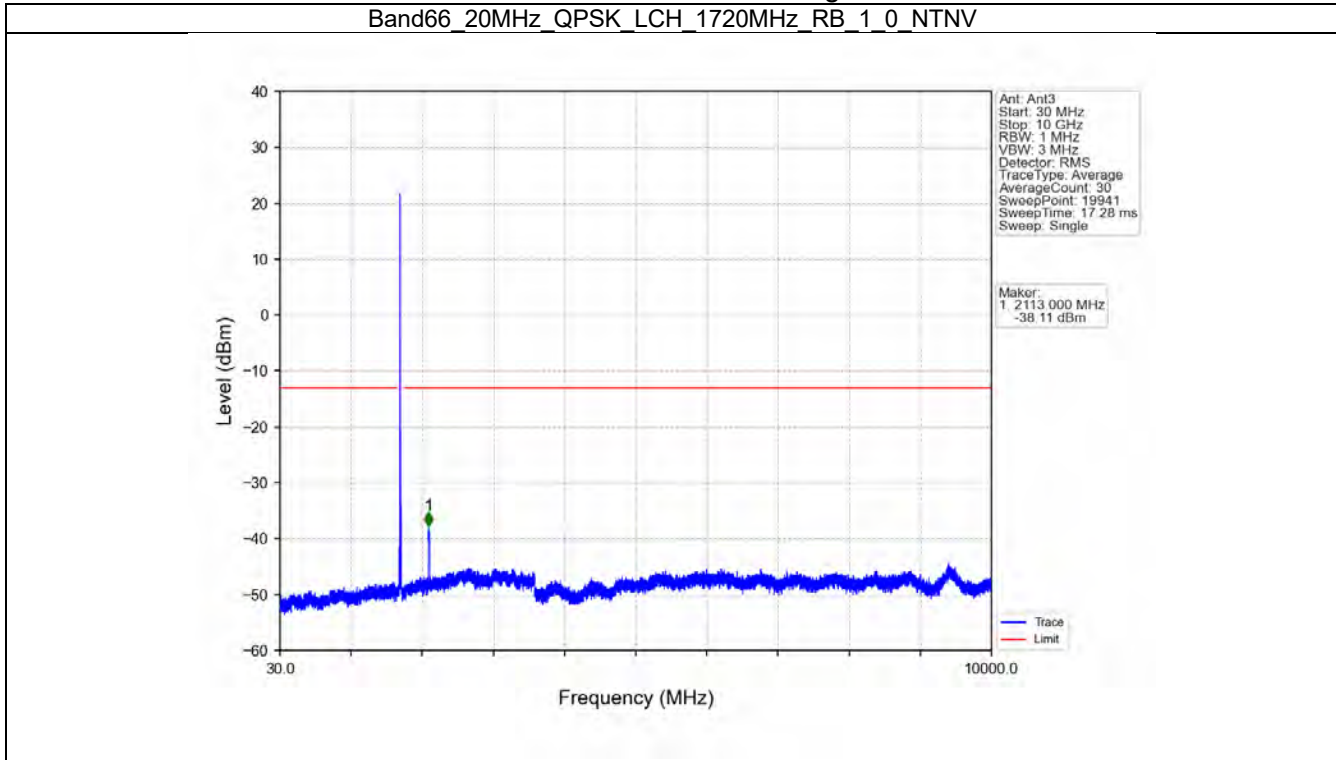


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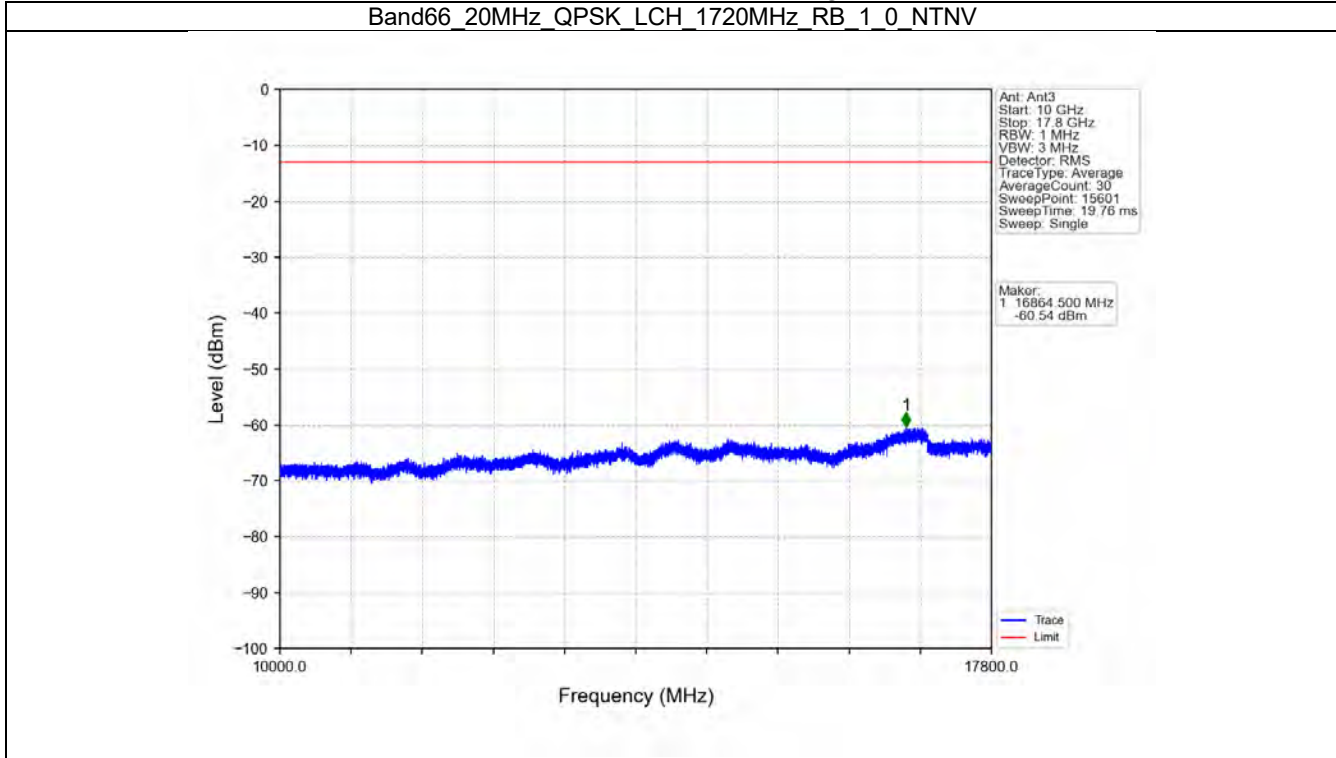
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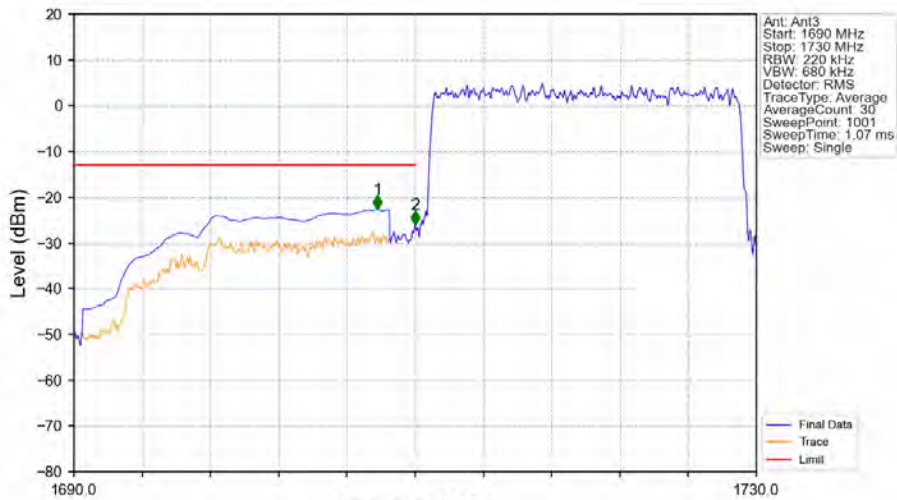


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Band66_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1690 | 1709 | 1 | CHP | 1 | 1707.800 | -22.75 | -13 | Pass |
| 1709 | 1710 | 0.22 | / | 2 | 1710.000 | -26.07 | -13 | Pass |
| 1710 | 1730 | 0.22 | / | / | / | / | / | / |



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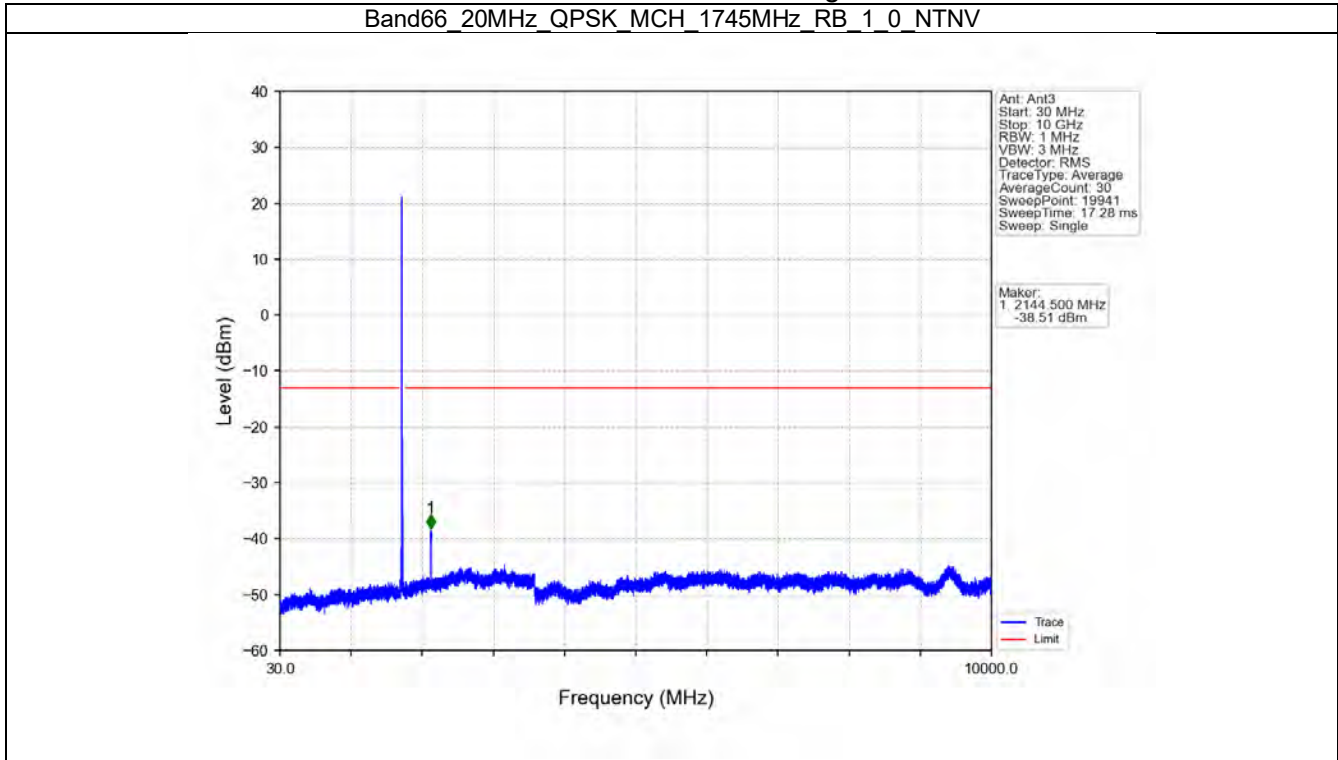
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 364 of 392

Band66_20MHz_QPSK_MCH_1745MHz_RB_1_0_NTNV

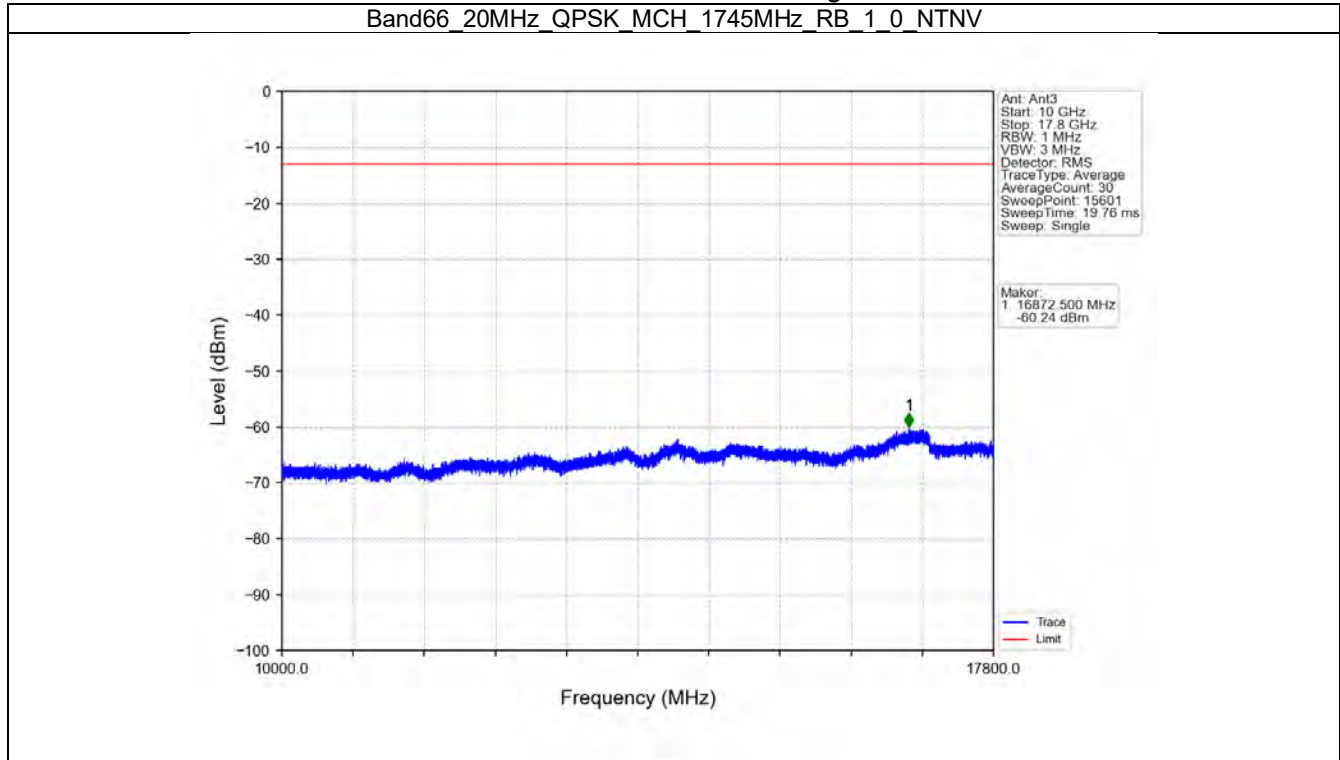


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Band66_20MHz_QPSK_MCH_1745MHz_RB_1_0_NTNV

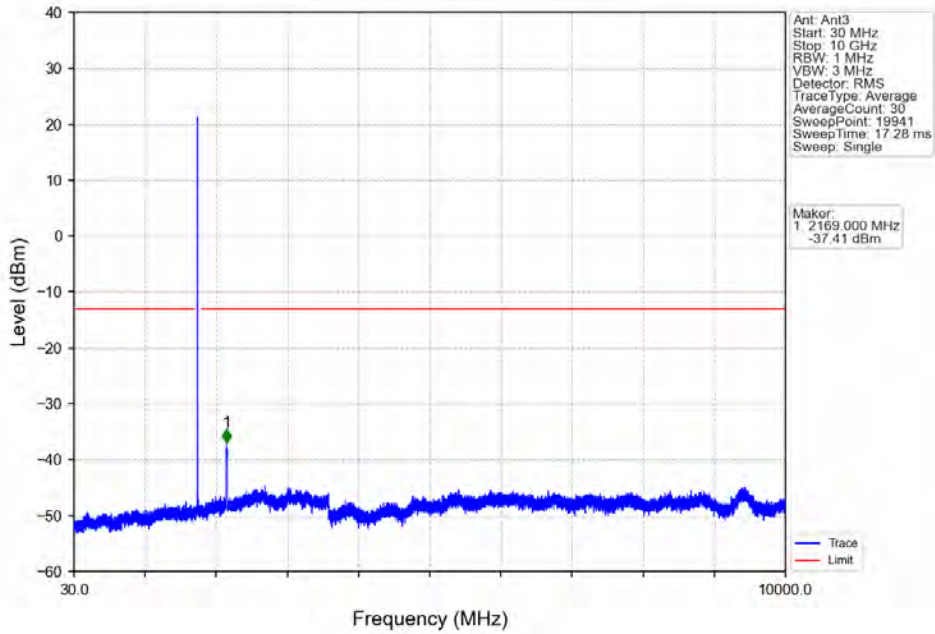


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Band66_20MHz_QPSK_HCH_1770MHz_RB_1_0_NTNV

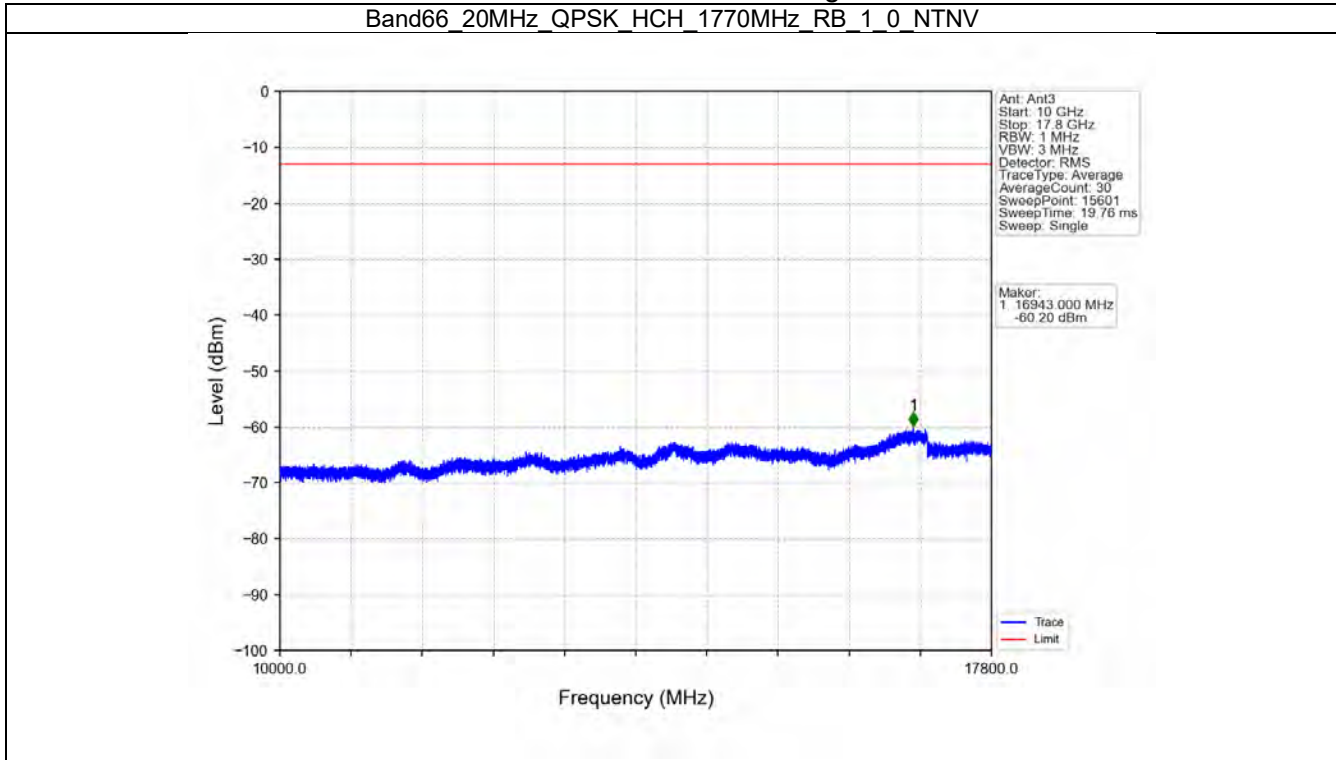


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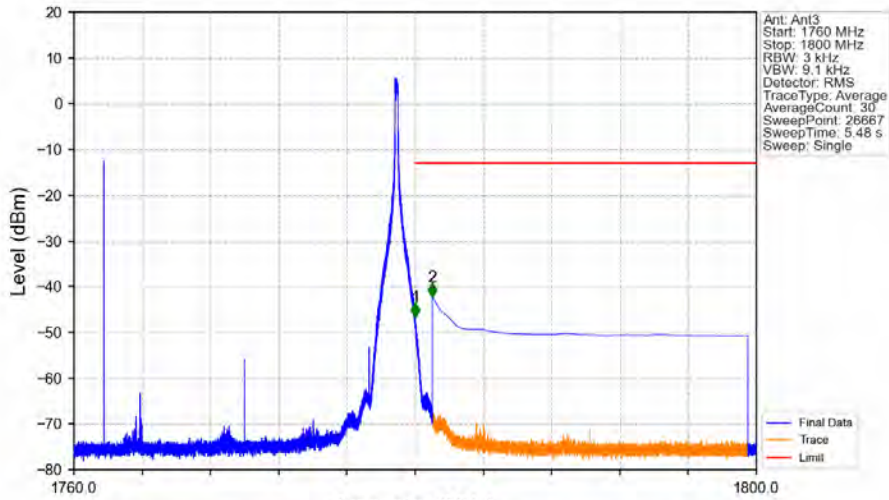


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Band66_20MHz_QPSK_HCH_1770MHz_RB_1_99_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1760 | 1780 | 0.003 | / | 1 | 1780.006 | -46.74 | -13 | Pass |
| 1781 | 1800 | 1 | CHP | 2 | 1781.001 | -42.28 | -13 | Pass |

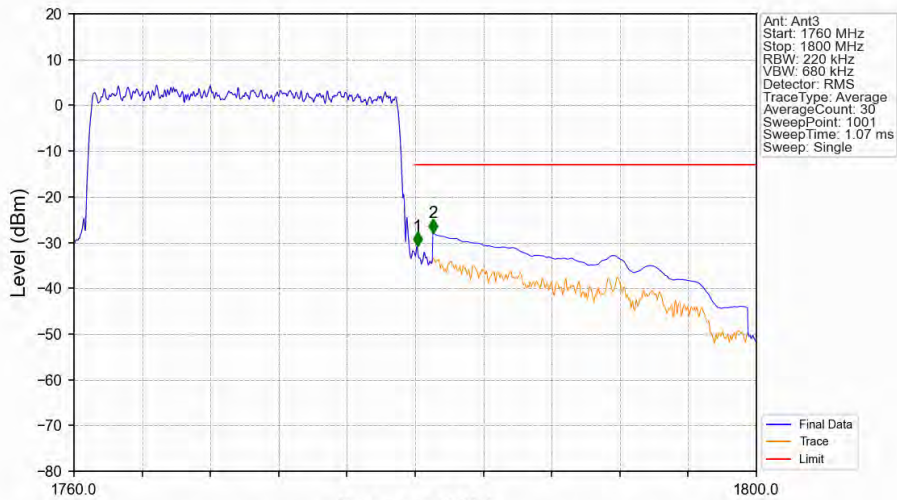


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Band66_20MHz_QPSK_HCH_1770MHz_RB_100_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 1760 | 1780 | 0.22 | / | / | / | / | / | / |
| 1780 | 1781 | 0.22 | / | 1 | 1780.120 | -30.83 | -13 | Pass |
| 1781 | 1800 | 1 | CHP | 2 | 1781.040 | -27.90 | -13 | Pass |



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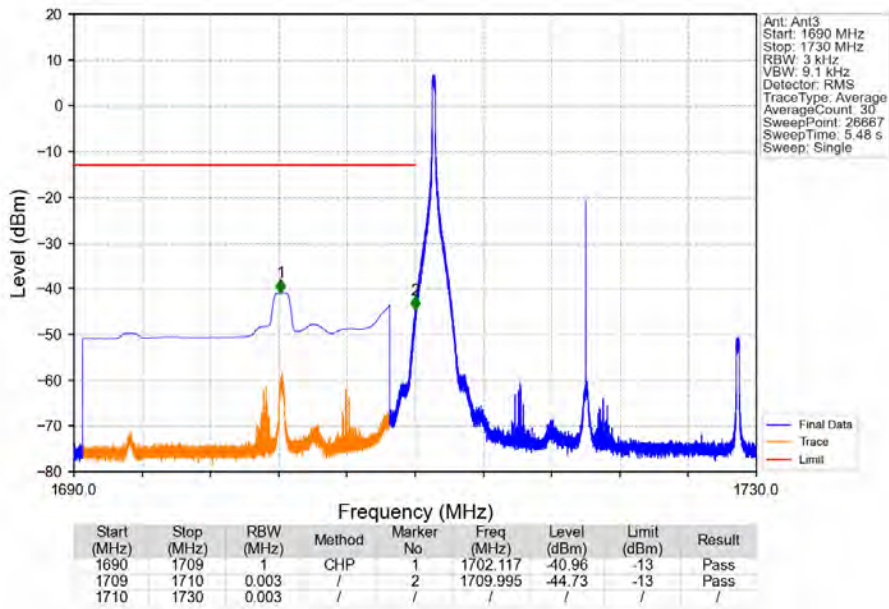
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 370 of 392

Band66_20MHz_16QAM_LCH_1720MHz_RB_1_0_NTNV



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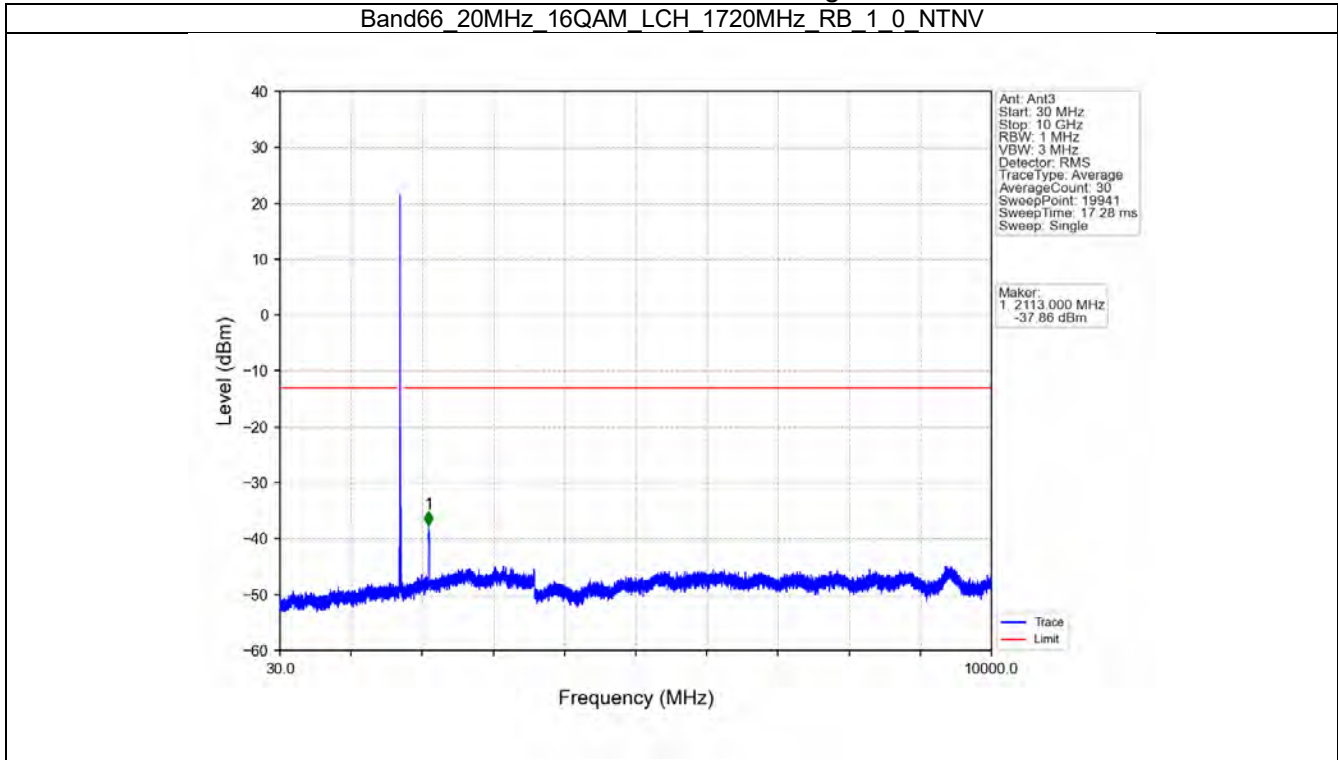
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Rev.: 01

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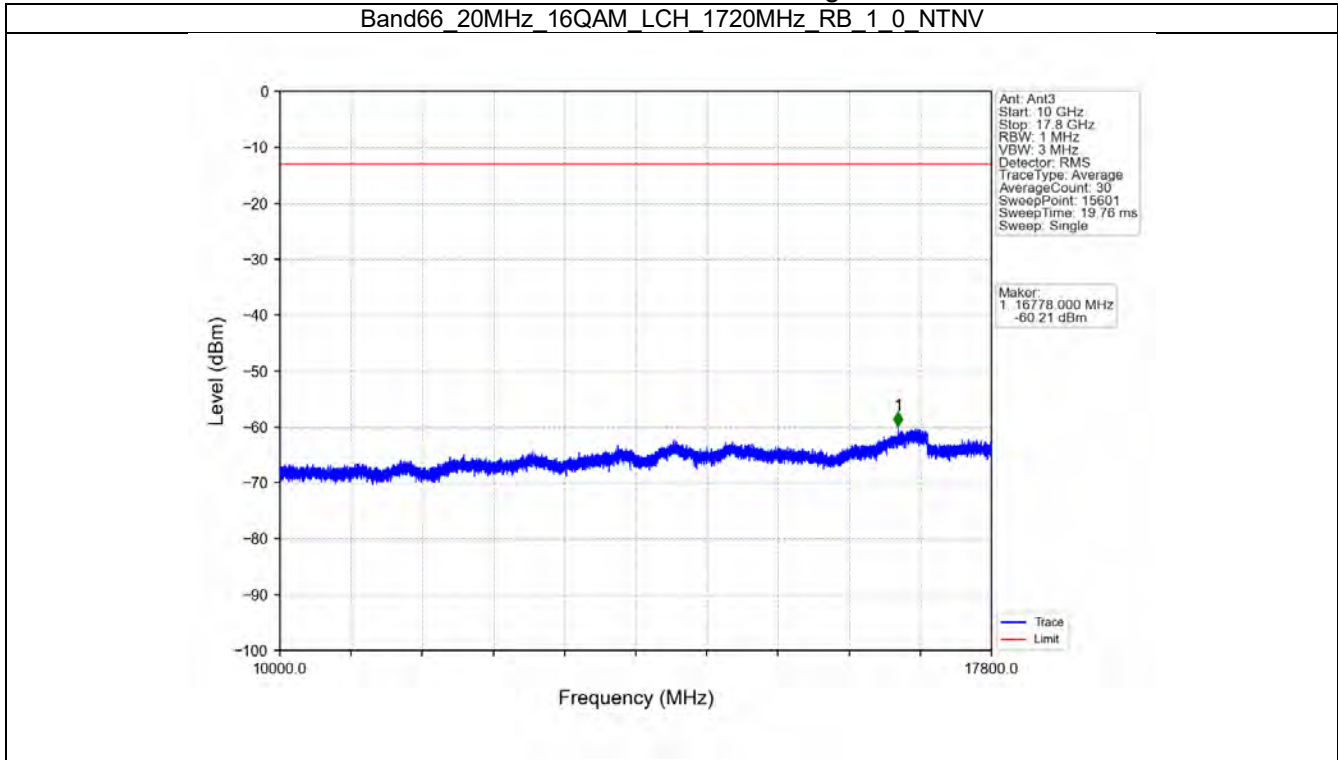
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Band66_20MHz_16QAM_LCH_1720MHz_RB_1_0_NTNV



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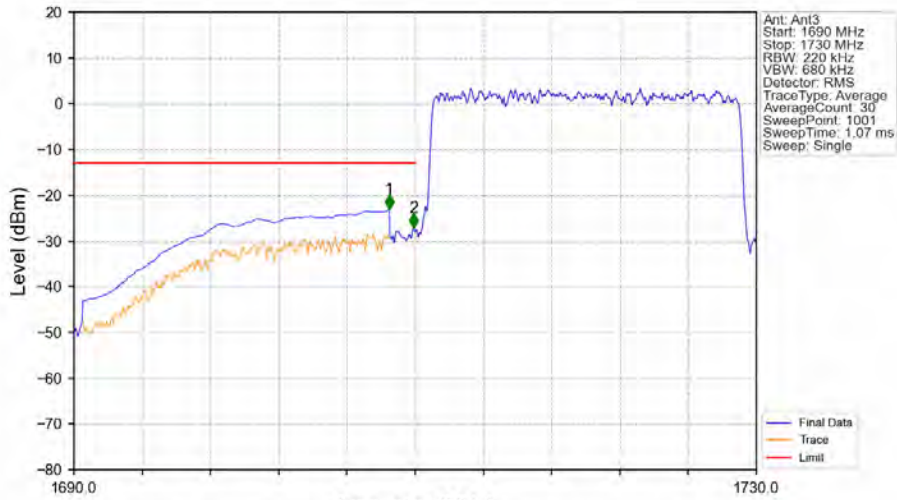
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 373 of 392

Band66_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1690 | 1709 | 1 | CHP | 1 | 1708.480 | -23.01 | -13 | Pass |
| 1709 | 1710 | 0.22 | / | 2 | 1709.920 | -27.06 | -13 | Pass |
| 1710 | 1730 | 0.22 | / | / | / | / | / | / |

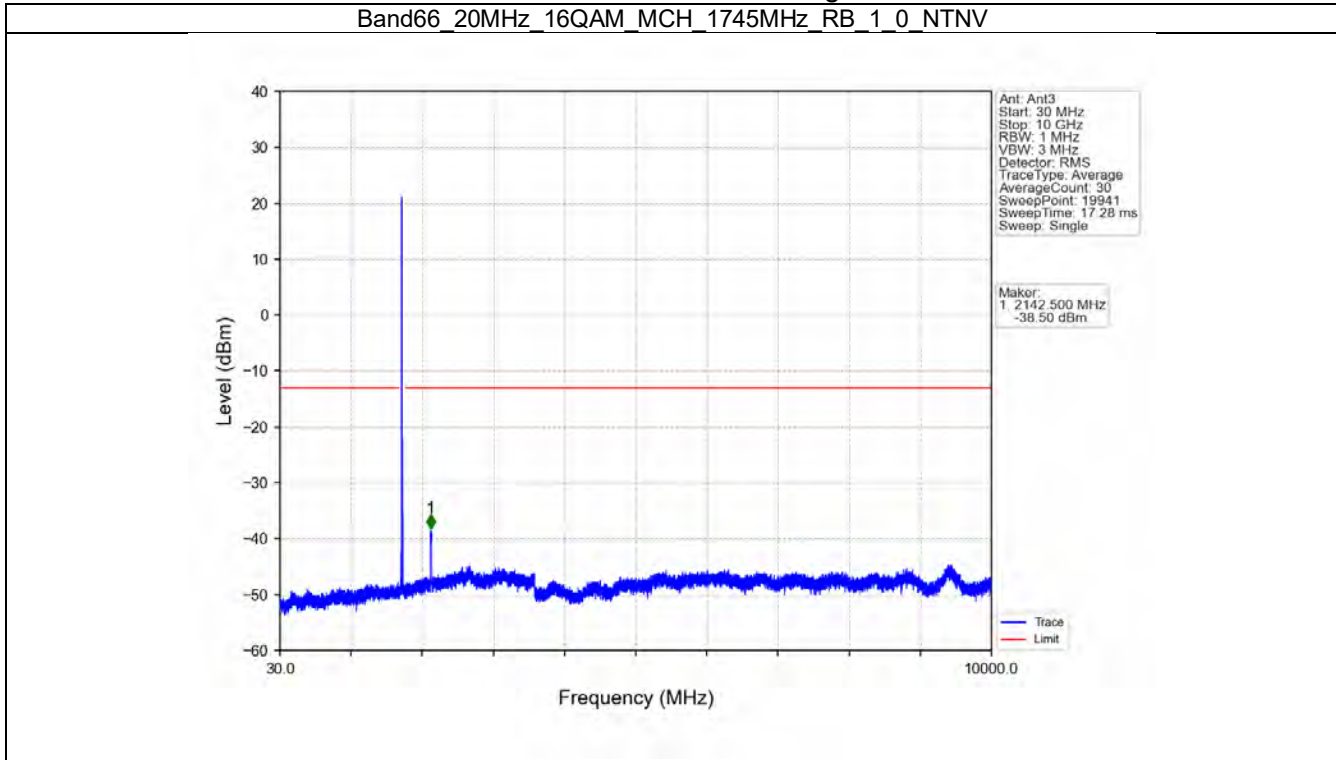


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Band66_20MHz_16QAM_MCH_1745MHz_RB_1_0_NTNV



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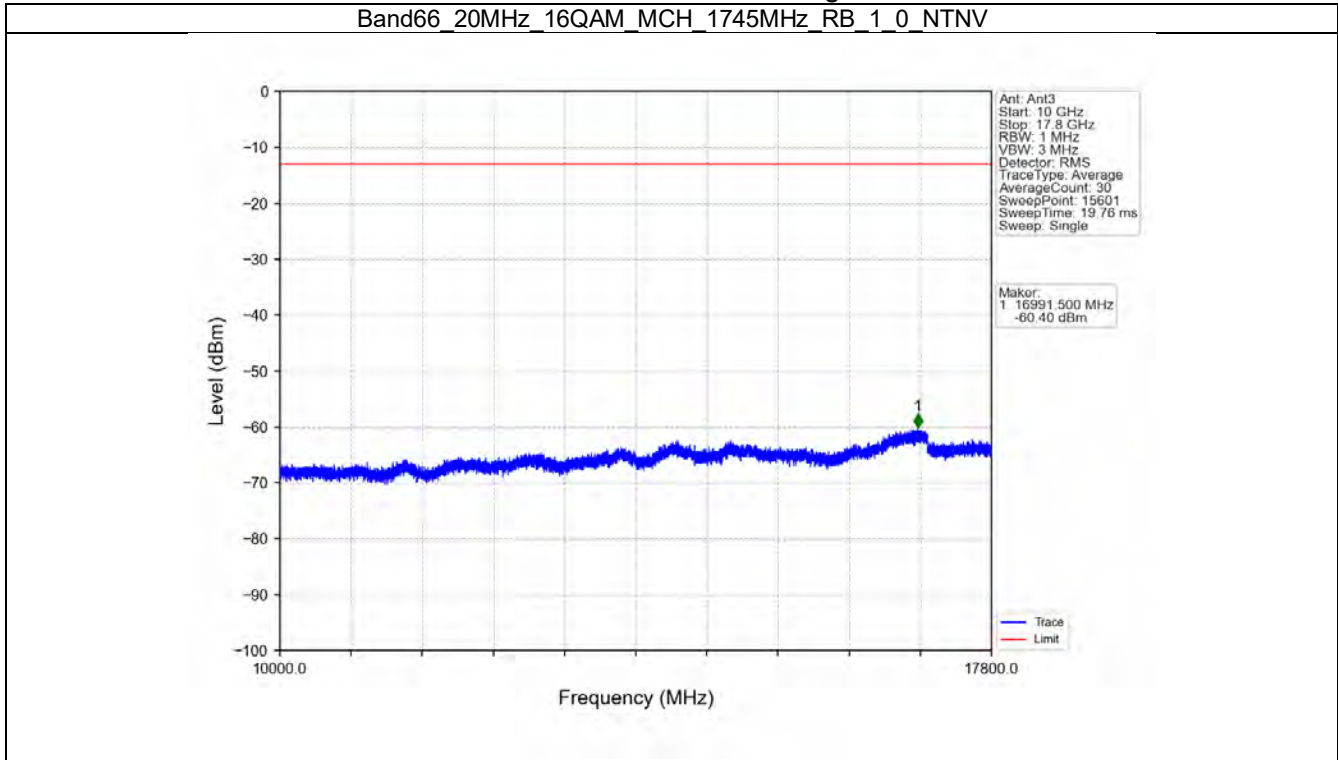
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Rev.: 01

Page: 375 of 392

Band66_20MHz_16QAM_MCH_1745MHz_RB_1_0_NTNV



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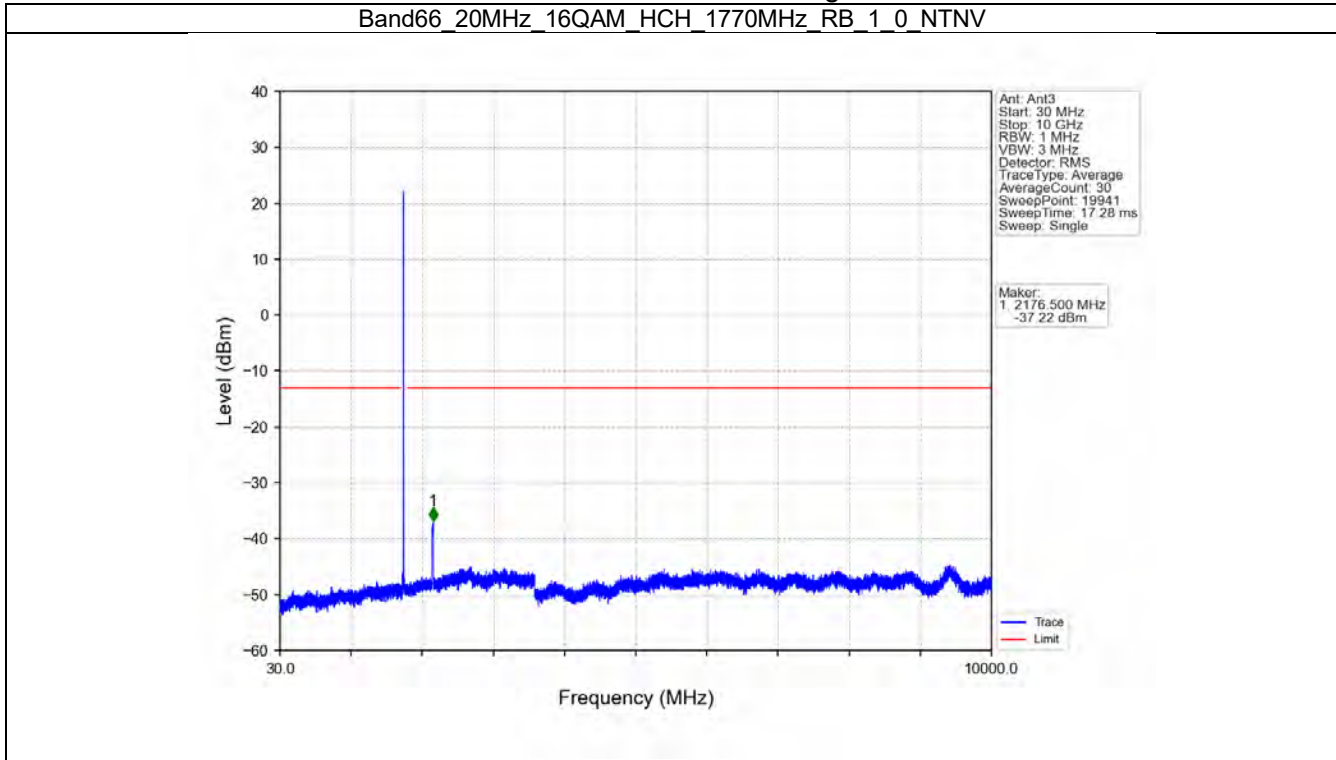
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 376 of 392

Band66_20MHz_16QAM_HCH_1770MHz_RB_1_0_NTNV



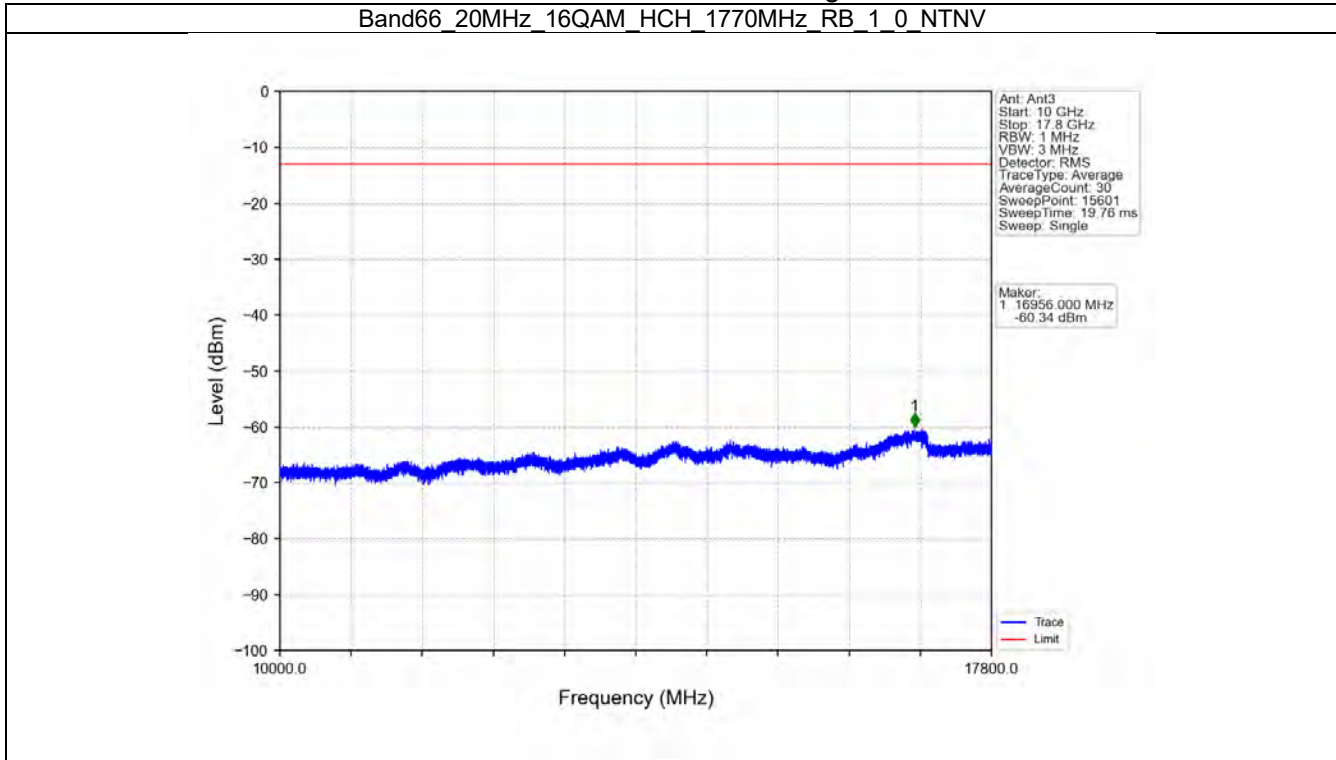
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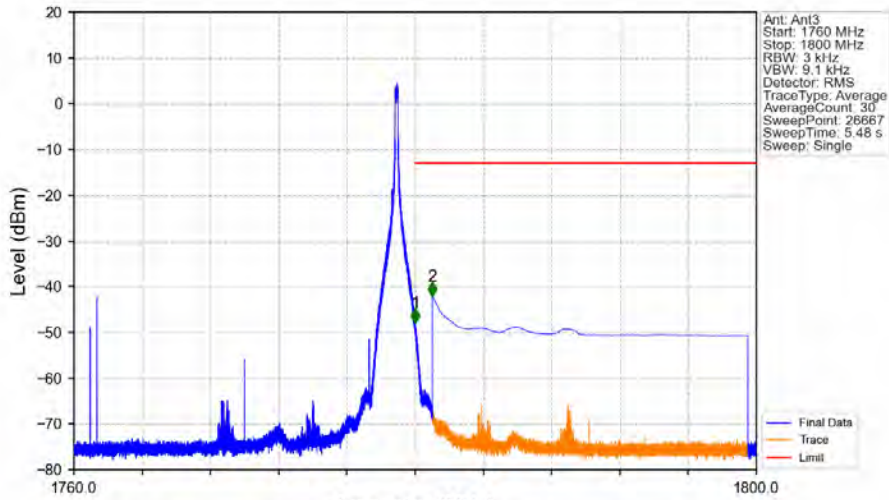
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 378 of 392

Band66_20MHz_16QAM_HCH_1770MHz_RB_1_99_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1760 | 1780 | 0.003 | / | 1 | 1780.020 | -47.97 | -13 | Pass |
| 1781 | 1800 | 1 | CHP | 2 | 1781.001 | -42.08 | -13 | Pass |



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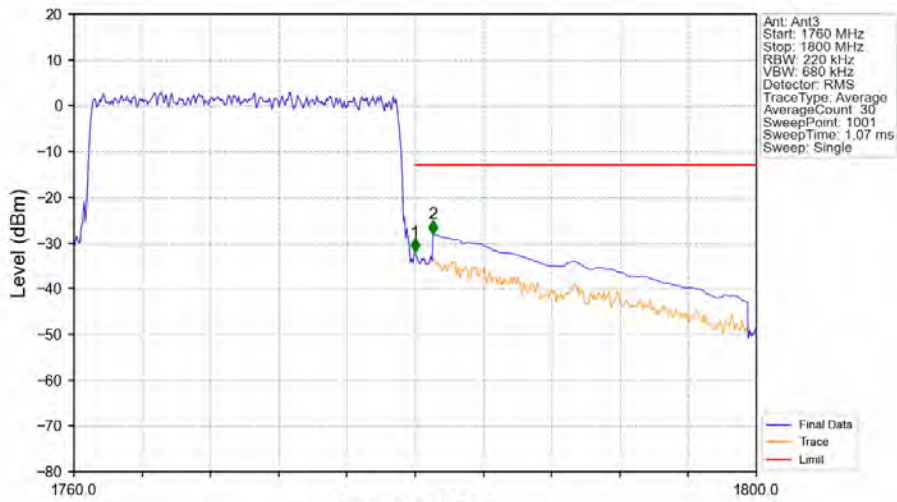
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 379 of 392

Band66_20MHz_16QAM_HCH_1770MHz_RB_100_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1760 | 1780 | 0.22 | / | / | / | / | / | / |
| 1780 | 1781 | 0.22 | / | 1 | 1780.000 | -31.98 | -13 | Pass |
| 1781 | 1800 | 1 | CHP | 2 | 1781.040 | -28.08 | -13 | Pass |



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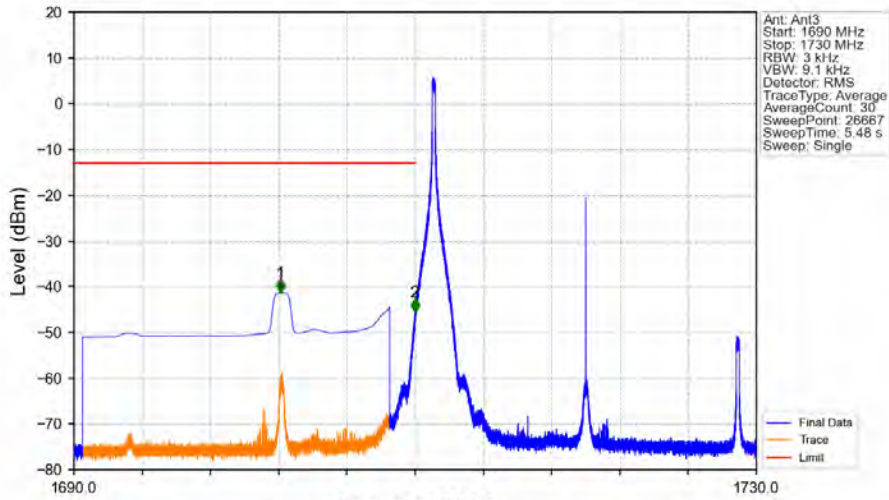
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 380 of 392

Band66_20MHz_64QAM_LCH_1720MHz_RB_1_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1690 | 1709 | 1 | CHP | 1 | 1702.107 | -41.39 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.980 | -45.60 | -13 | Pass |
| 1710 | 1730 | 0.003 | / | / | / | / | / | / |



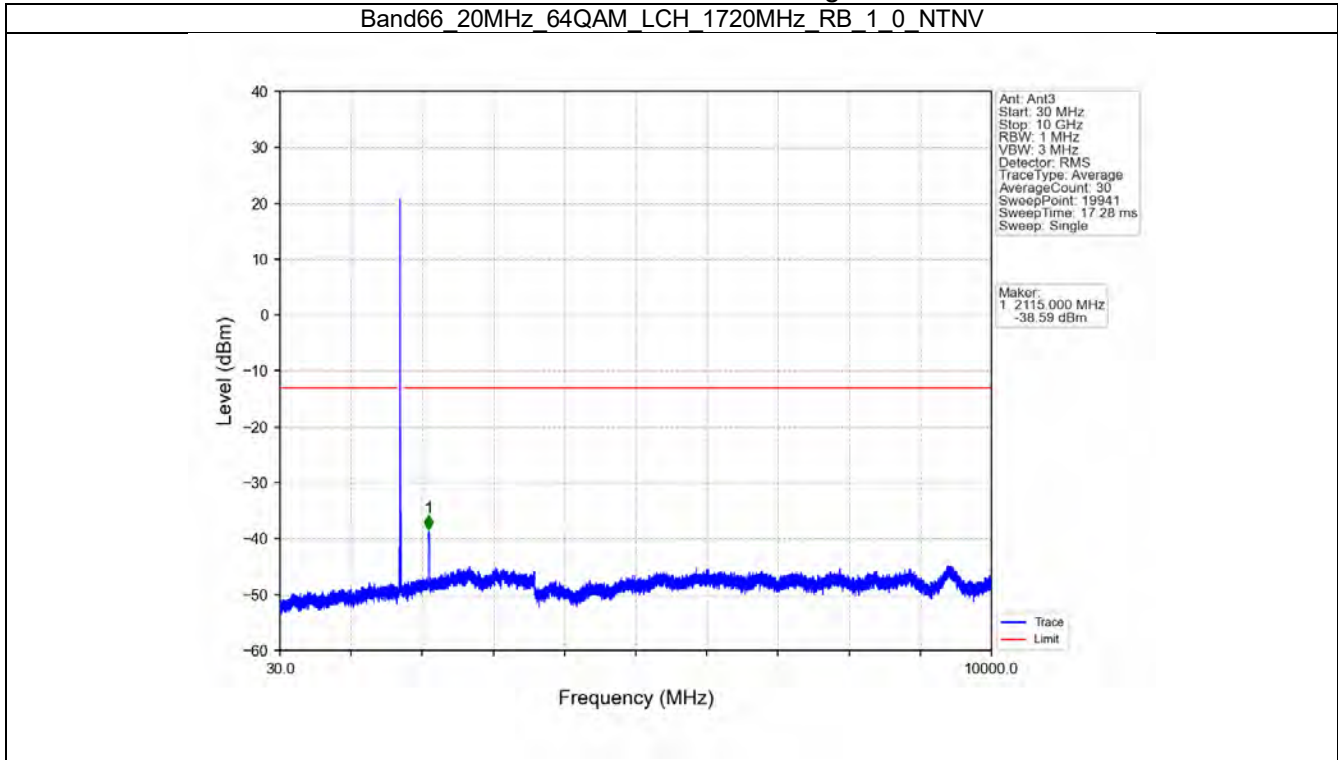
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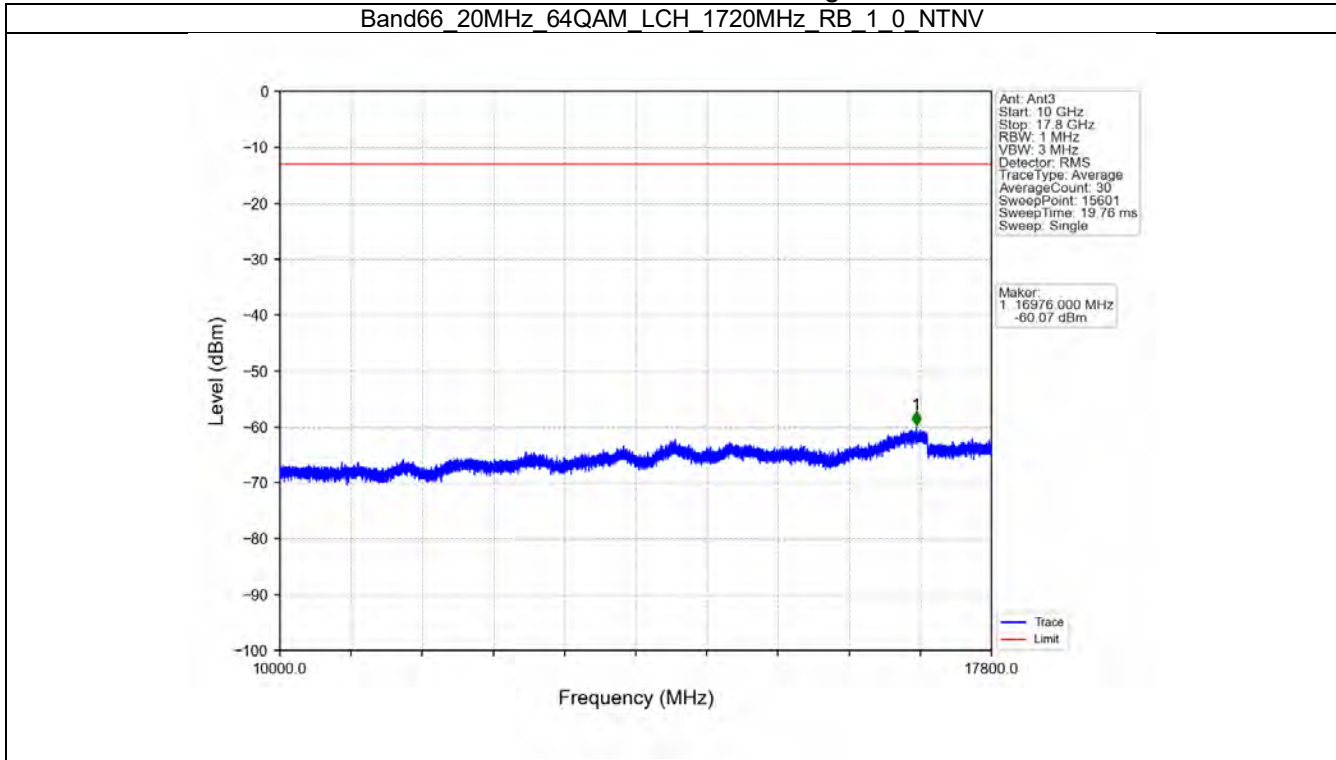


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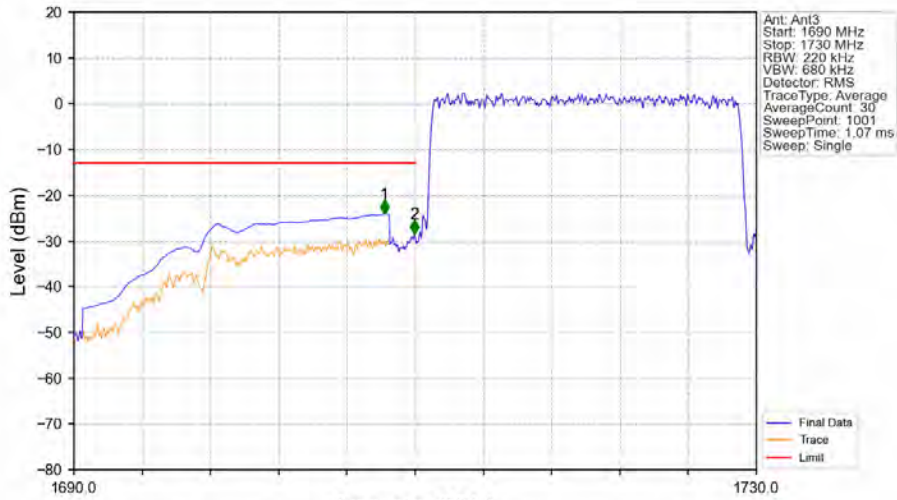
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 383 of 392

Band66_20MHz_64QAM_LCH_1720MHz_RB_100_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1690 | 1709 | 1 | CHP | 1 | 1708.200 | -24.12 | -13 | Pass |
| 1709 | 1710 | 0.22 | / | 2 | 1709.960 | -28.53 | -13 | Pass |
| 1710 | 1730 | 0.22 | / | / | / | / | / | / |



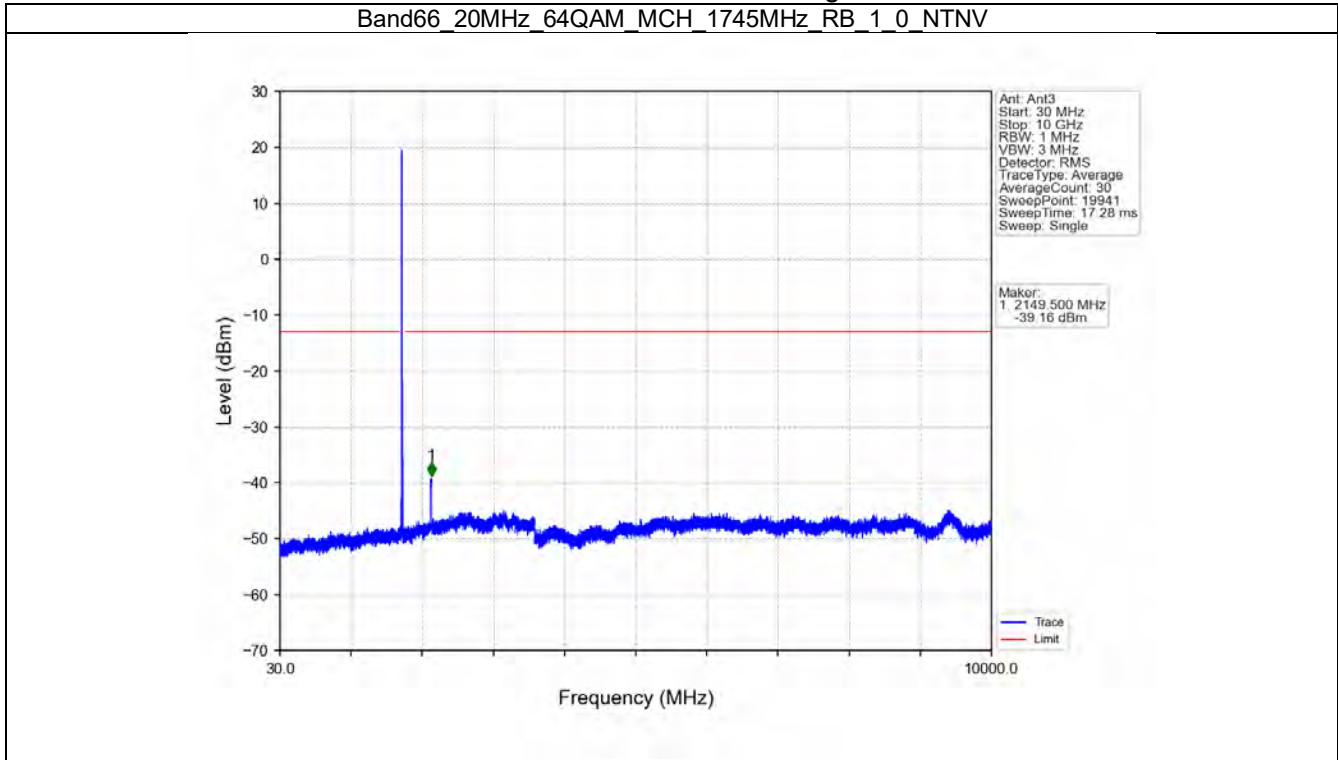
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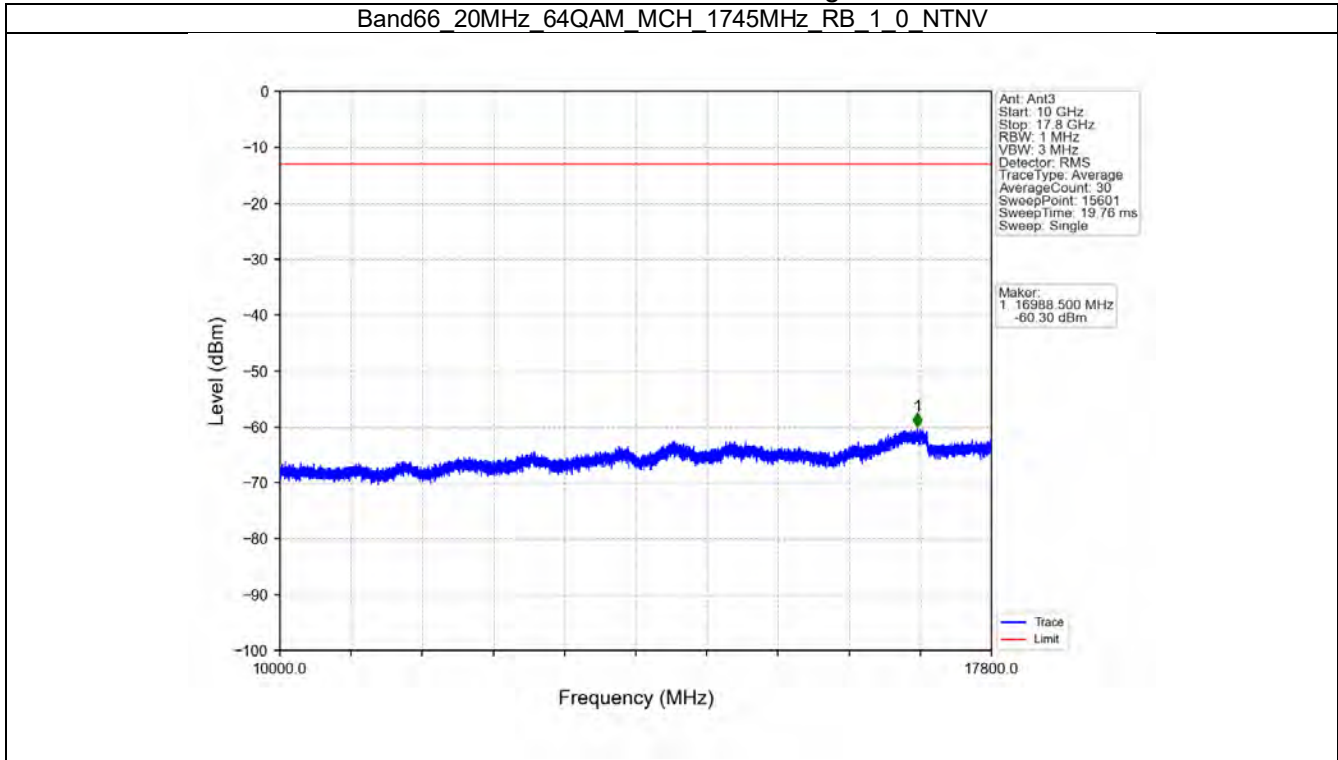
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 385 of 392

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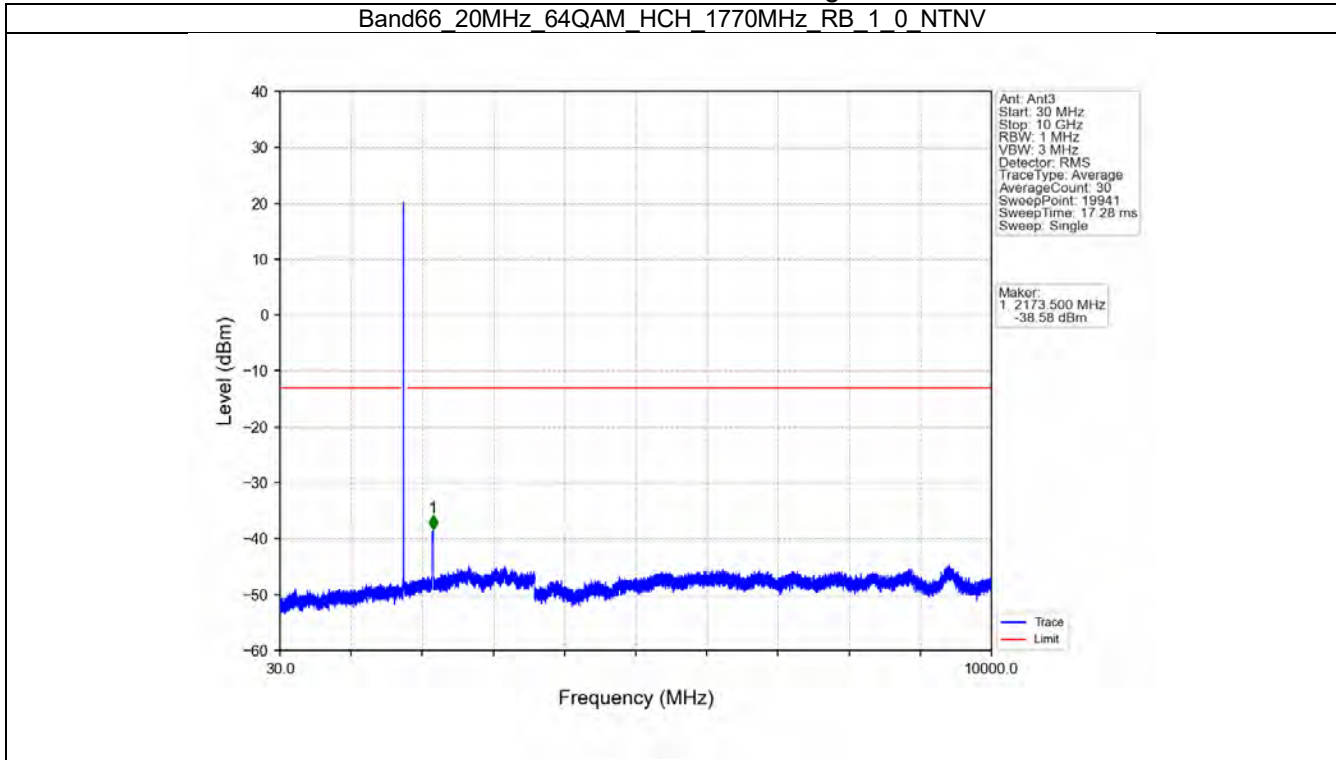
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 386 of 392

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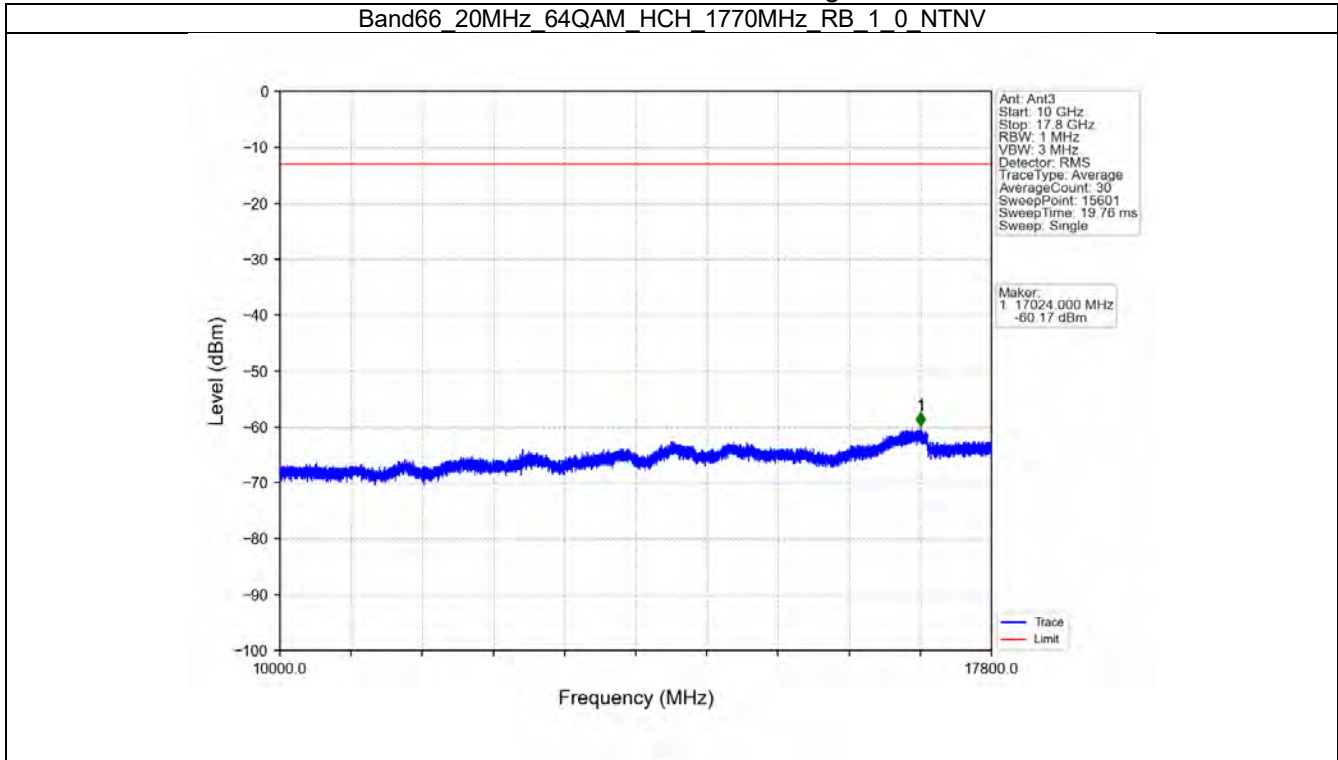
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Rev.: 01

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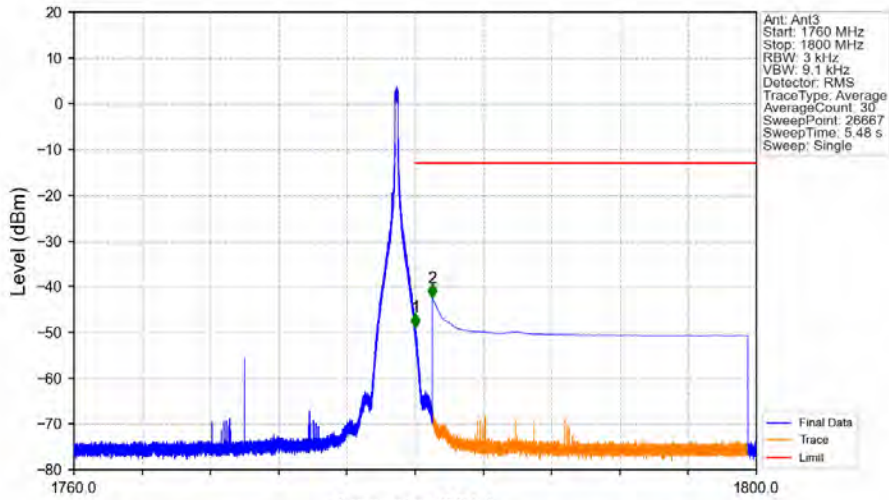
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 388 of 392

Band66_20MHz_64QAM_HCH_1770MHz_RB_1_99_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1760 | 1780 | 0.003 | / | 1 | 1780.007 | -48.87 | -13 | Pass |
| 1781 | 1800 | 1 | CHP | 2 | 1781.001 | -42.45 | -13 | Pass |



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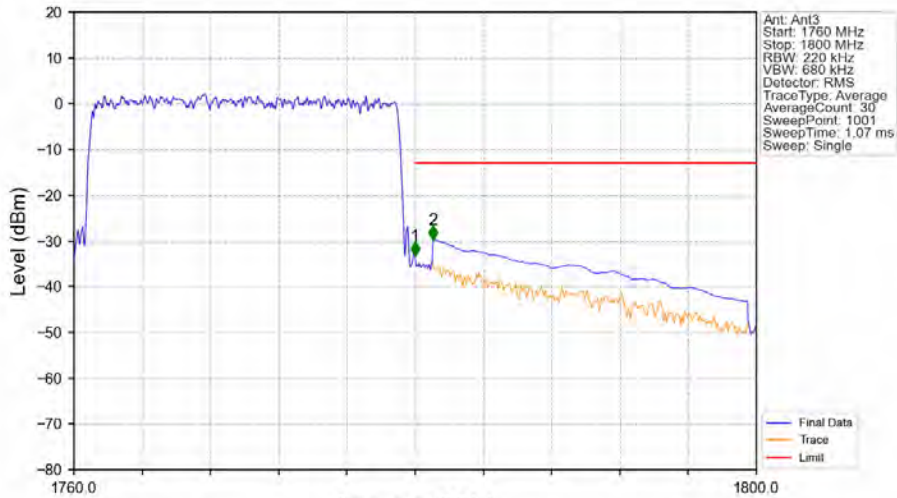
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 389 of 392

Band66_20MHz_64QAM_HCH_1770MHz_RB_100_0_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 1760 | 1780 | 0.22 | / | / | / | / | / | / |
| 1780 | 1781 | 0.22 | / | 1 | 1780.000 | -33.23 | -13 | Pass |
| 1781 | 1800 | 1 | CHP | 2 | 1781.040 | -29.68 | -13 | Pass |



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6. Field Strength of Spurious Radiation

Test Band = LTE Band 66_ TM1
 Test Channel = Low Channel _ Worse ANT

| Final Data List | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3404.18 | 44.31 | -48.40 | 28.66 | -70.69 | -13.00 | 57.69 | Horizontal |
| 2 | 5106.27 | 43.15 | -47.82 | 31.76 | -68.18 | -13.00 | 55.18 | Horizontal |
| 3 | 6808.36 | 42.84 | -46.88 | 35.18 | -64.12 | -13.00 | 51.12 | Horizontal |
| 4 | 8510.45 | 39.52 | -44.25 | 36.92 | -63.07 | -13.00 | 50.07 | Horizontal |
| 5 | 10212.54 | 37.59 | -42.01 | 38.69 | -60.99 | -13.00 | 47.99 | Horizontal |
| 6 | 11914.63 | 36.69 | -39.90 | 39.22 | -59.26 | -13.00 | 46.26 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3404.18 | 44.59 | -48.40 | 28.66 | -70.41 | -13.00 | 57.41 | Vertical |
| 2 | 5106.27 | 43.29 | -47.82 | 31.76 | -68.04 | -13.00 | 55.04 | Vertical |
| 3 | 6808.36 | 42.95 | -46.88 | 35.18 | -64.01 | -13.00 | 51.01 | Vertical |
| 4 | 8510.45 | 39.34 | -44.25 | 36.92 | -63.25 | -13.00 | 50.25 | Vertical |
| 5 | 10212.54 | 38.21 | -42.01 | 38.69 | -60.37 | -13.00 | 47.37 | Vertical |
| 6 | 11914.63 | 36.16 | -39.90 | 39.22 | -59.79 | -13.00 | 46.79 | Vertical |



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Test Band = LTE Band 66_ TM1

Test Channel = Mid Channel _ Worse ANT

| Final Data List | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3454.18 | 43.83 | -48.34 | 28.68 | -71.09 | -13.00 | 58.09 | Horizontal |
| 2 | 5181.27 | 42.95 | -47.88 | 31.94 | -68.25 | -13.00 | 55.25 | Horizontal |
| 3 | 6908.36 | 42.51 | -46.72 | 35.40 | -64.07 | -13.00 | 51.07 | Horizontal |
| 4 | 8635.45 | 39.64 | -44.02 | 37.09 | -62.55 | -13.00 | 49.55 | Horizontal |
| 5 | 10362.54 | 37.99 | -41.21 | 38.83 | -59.65 | -13.00 | 46.65 | Horizontal |
| 6 | 12089.63 | 37.57 | -39.61 | 39.15 | -58.15 | -13.00 | 45.15 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3454.18 | 44.47 | -48.34 | 28.68 | -70.45 | -13.00 | 57.45 | Vertical |
| 2 | 5181.27 | 43.38 | -47.88 | 31.94 | -67.82 | -13.00 | 54.82 | Vertical |
| 3 | 6908.36 | 42.74 | -46.72 | 35.40 | -63.84 | -13.00 | 50.84 | Vertical |
| 4 | 8635.45 | 39.46 | -44.02 | 37.09 | -62.73 | -13.00 | 49.73 | Vertical |
| 5 | 10362.54 | 38.43 | -41.21 | 38.83 | -59.21 | -13.00 | 46.21 | Vertical |
| 6 | 12089.63 | 36.09 | -39.61 | 39.15 | -59.63 | -13.00 | 46.63 | Vertical |



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Test Band = LTE Band 66_ TM1
 Test Channel = High Channel _ Worse ANT

| Final Data List | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3504.18 | 44.30 | -48.29 | 28.71 | -70.54 | -13.00 | 57.54 | Horizontal |
| 2 | 5256.27 | 43.50 | -47.83 | 32.12 | -67.47 | -13.00 | 54.47 | Horizontal |
| 3 | 7008.36 | 42.36 | -46.53 | 35.62 | -63.81 | -13.00 | 50.81 | Horizontal |
| 4 | 8760.45 | 40.73 | -44.04 | 37.27 | -61.31 | -13.00 | 48.31 | Horizontal |
| 5 | 10512.54 | 37.46 | -40.73 | 38.96 | -59.57 | -13.00 | 46.57 | Horizontal |
| 6 | 12262.63 | 36.34 | -39.76 | 39.04 | -59.64 | -13.00 | 46.64 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 3504.18 | 44.10 | -48.29 | 28.71 | -70.74 | -13.00 | 57.74 | Vertical |
| 2 | 5256.27 | 43.24 | -47.83 | 32.12 | -67.73 | -13.00 | 54.73 | Vertical |
| 3 | 7008.36 | 42.20 | -46.53 | 35.62 | -63.97 | -13.00 | 50.97 | Vertical |
| 4 | 8760.45 | 40.56 | -44.04 | 37.27 | -61.48 | -13.00 | 48.48 | Vertical |
| 5 | 10512.54 | 37.30 | -40.73 | 38.96 | -59.73 | -13.00 | 46.73 | Vertical |
| 6 | 12262.63 | 36.22 | -39.76 | 39.04 | -59.76 | -13.00 | 46.76 | 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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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