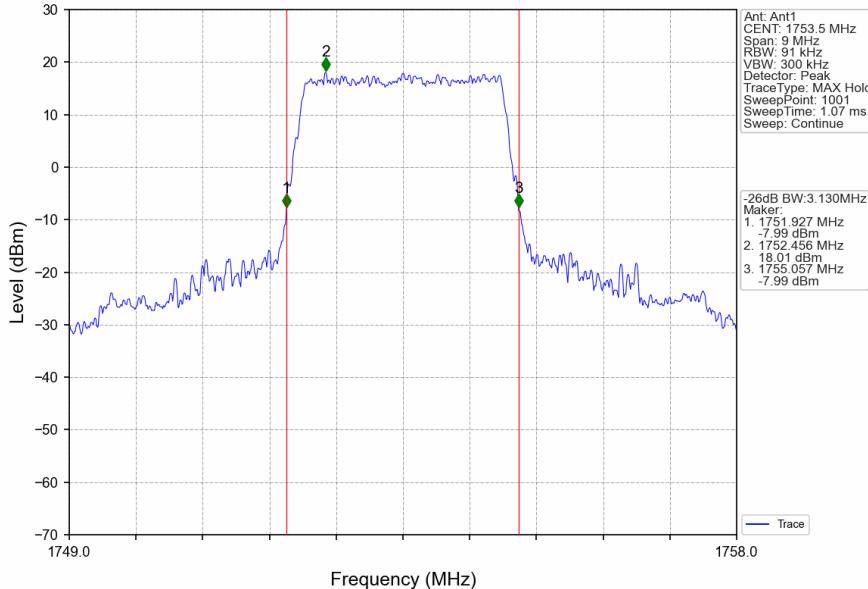
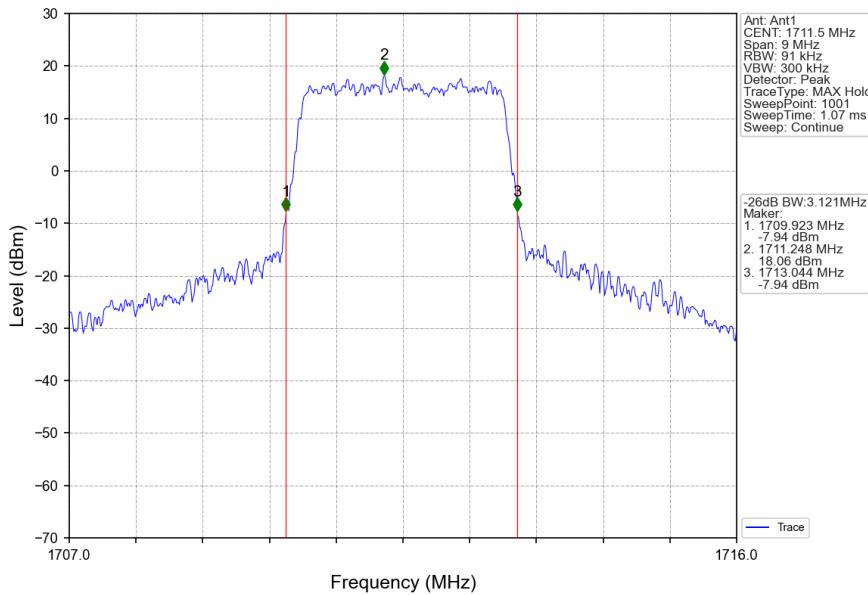


Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



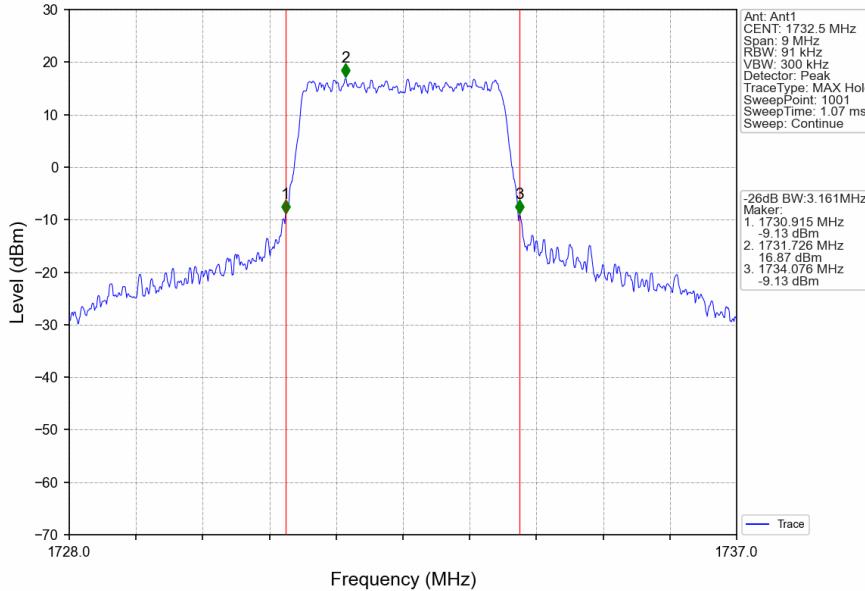
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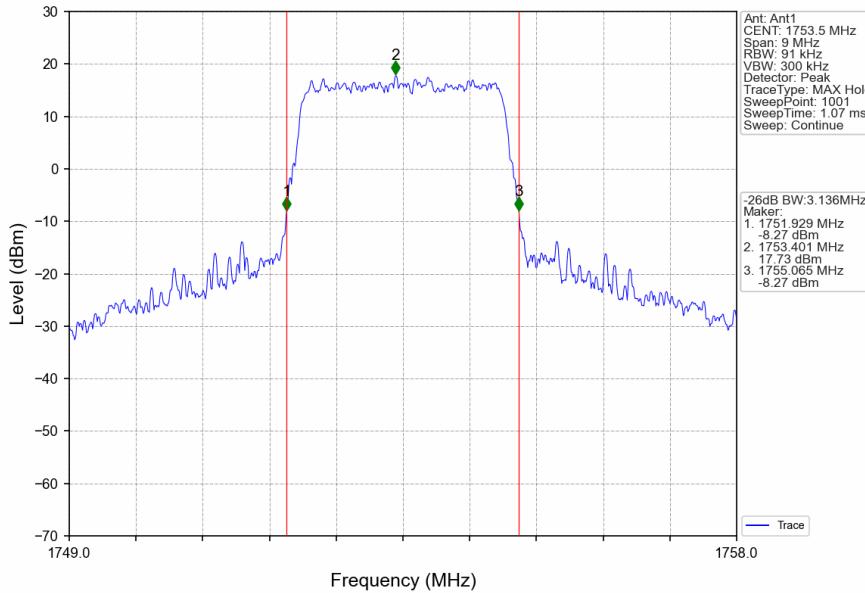


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Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



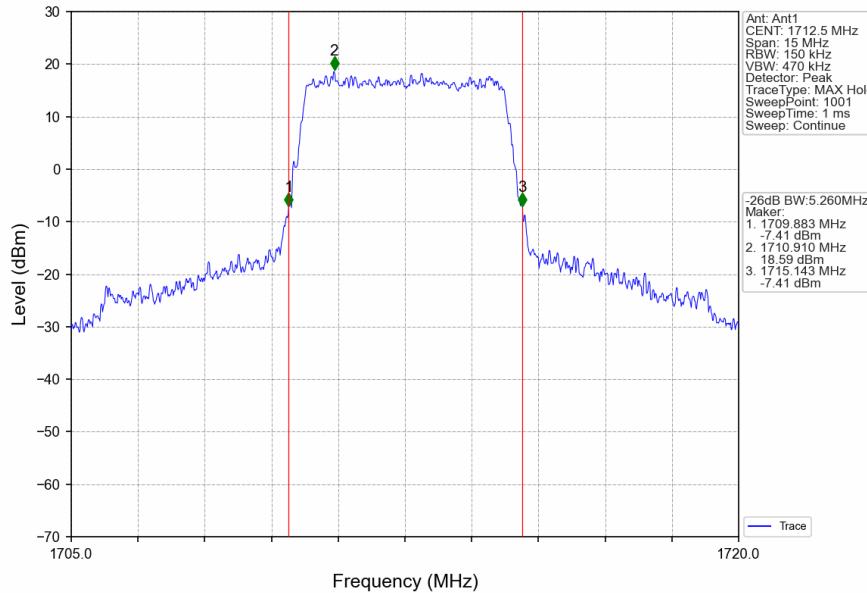
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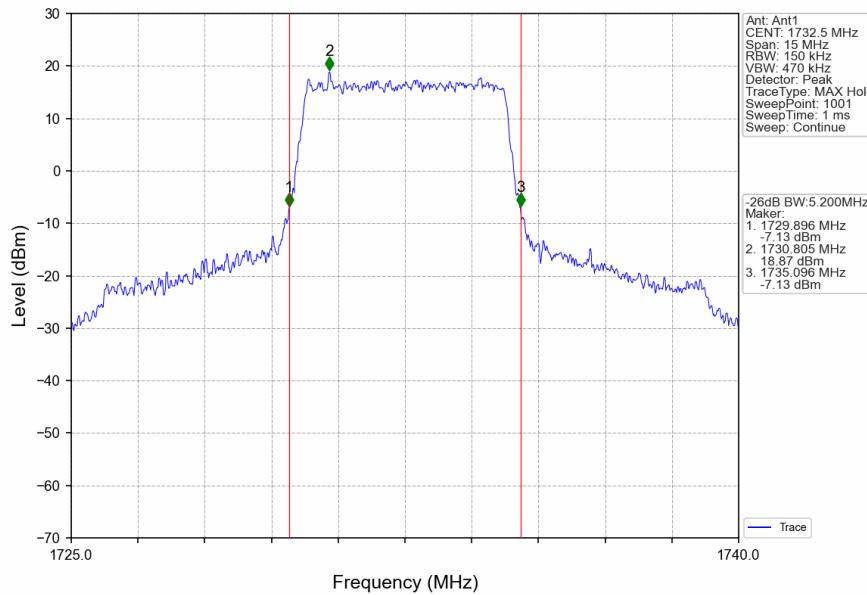
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Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



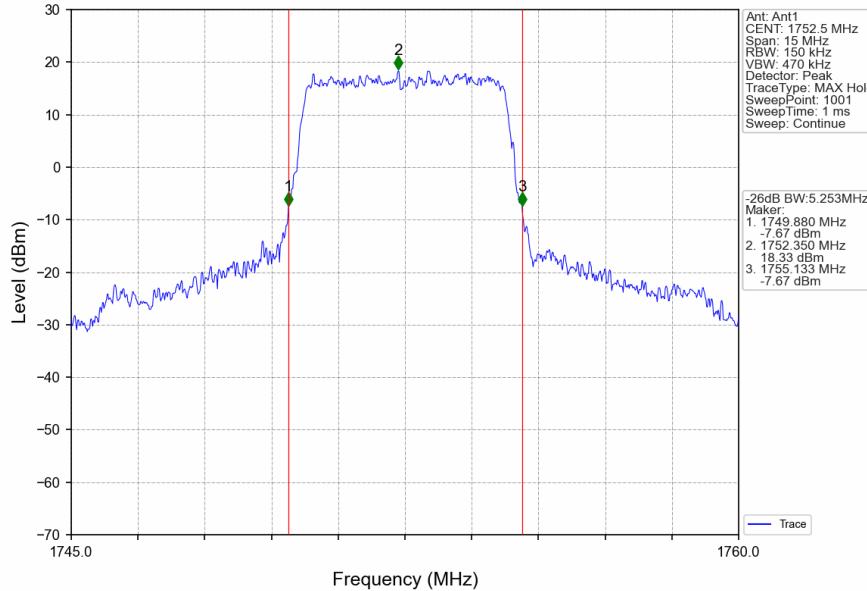
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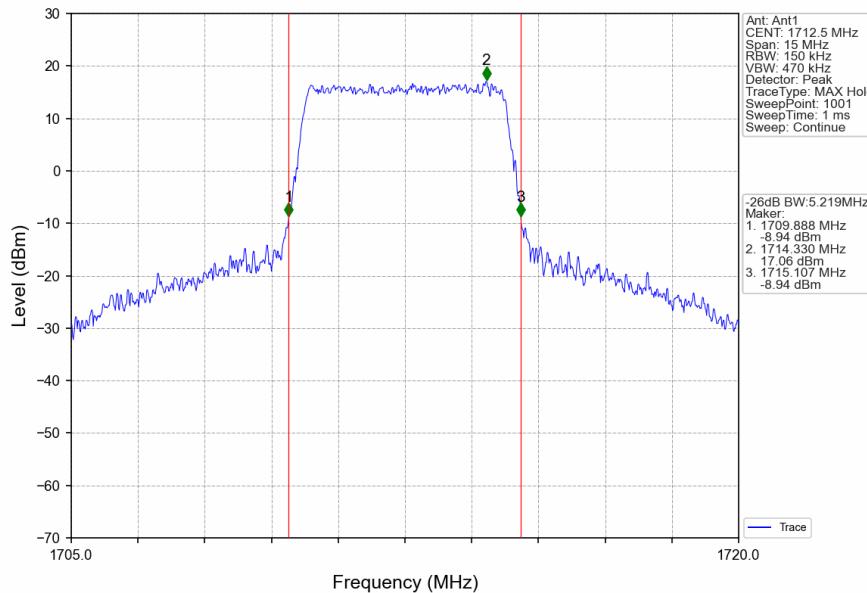
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Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



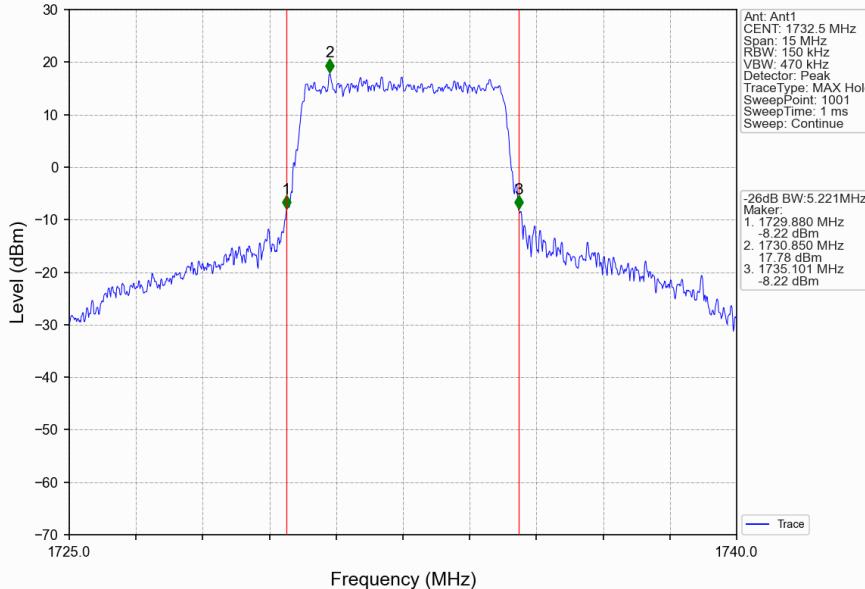
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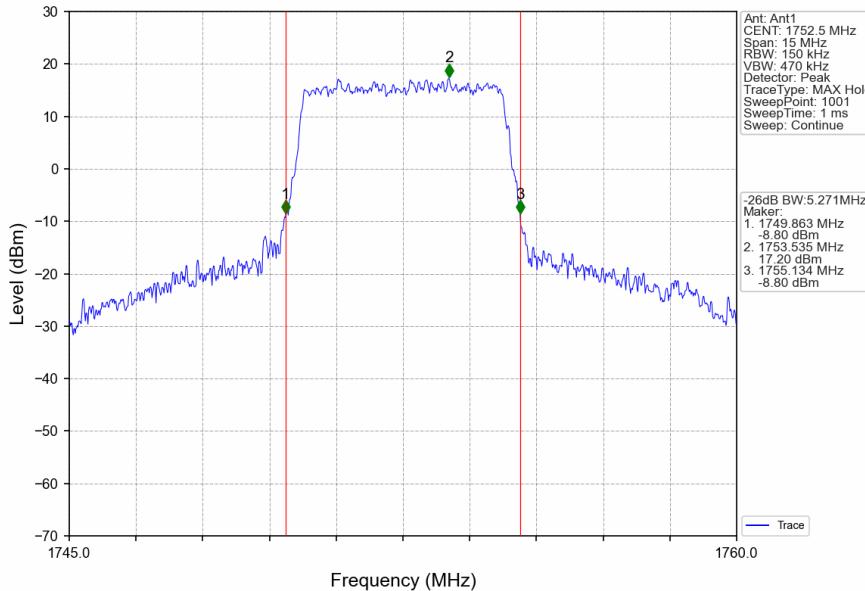


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Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV

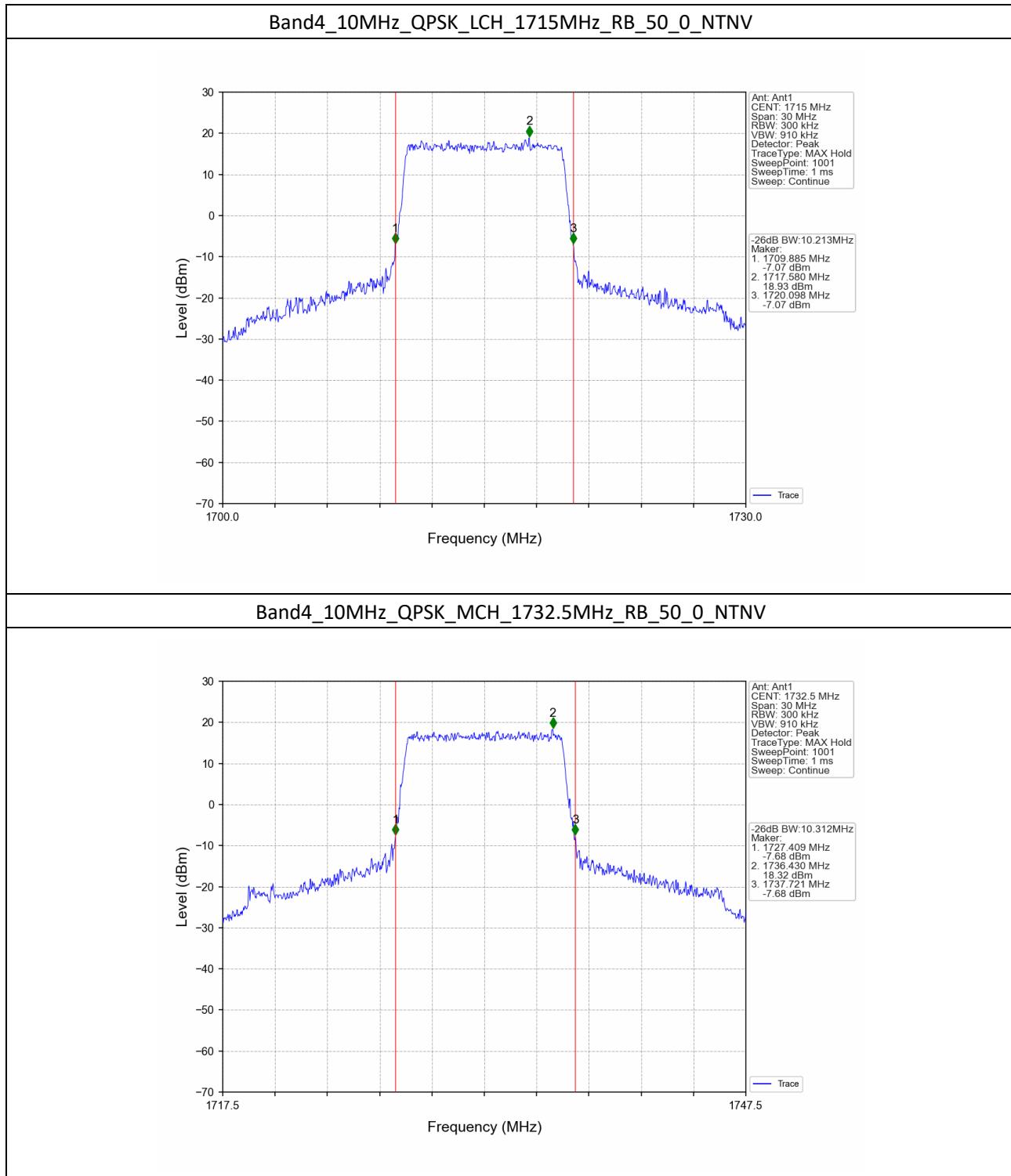


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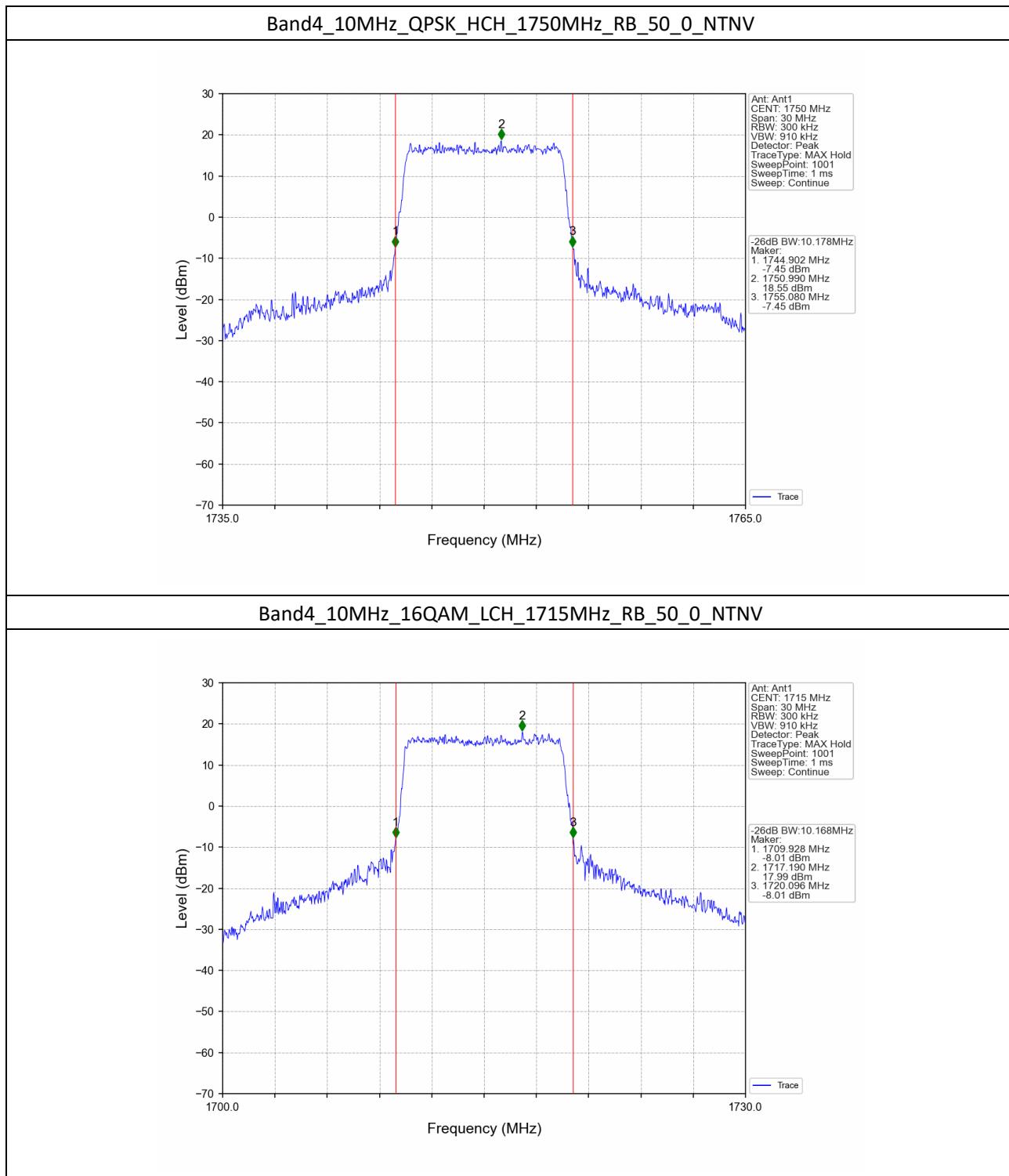
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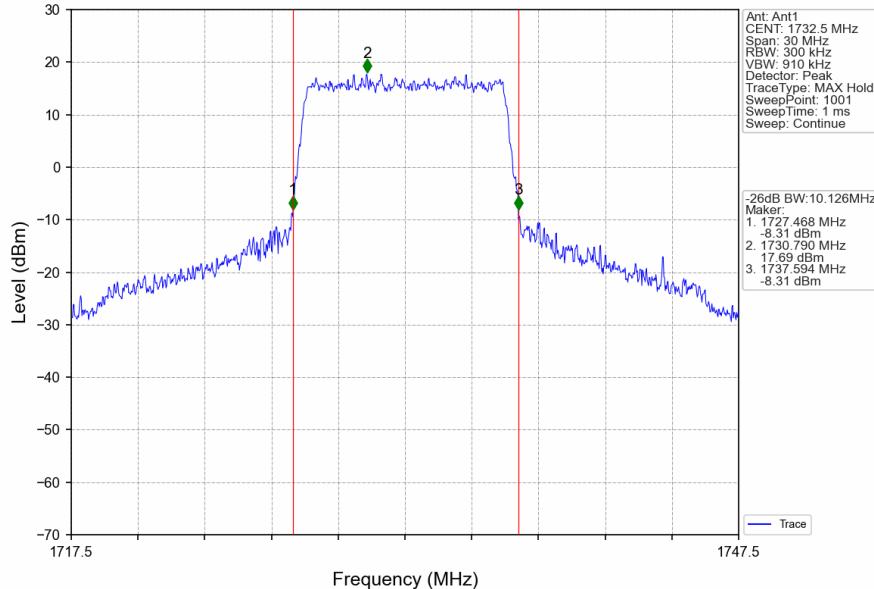
Shenzhen Branch, Shenzhen Wireless Laboratory

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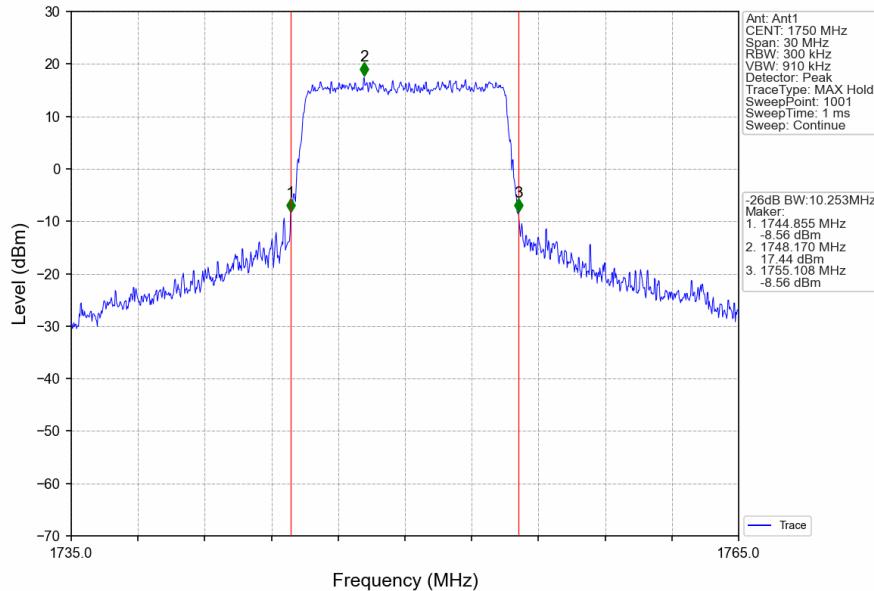
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Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV

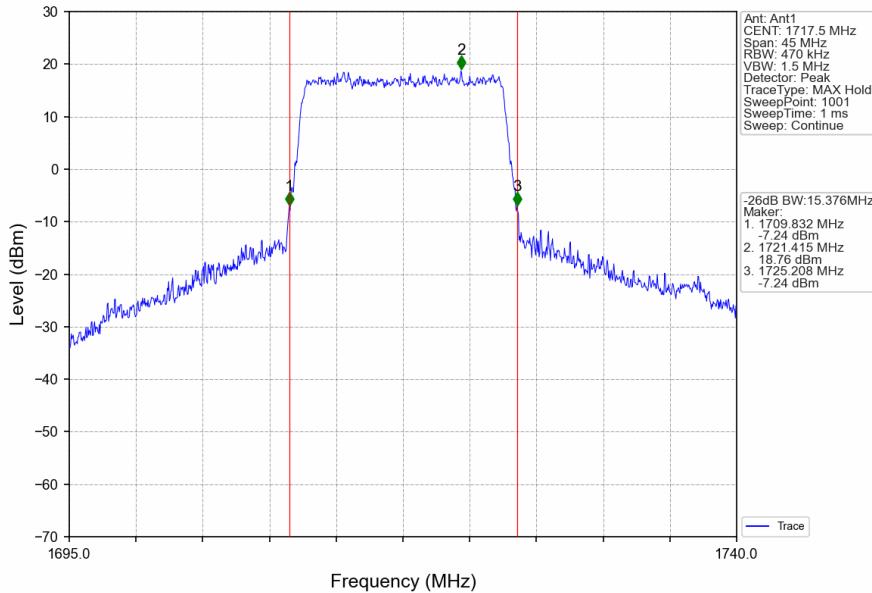
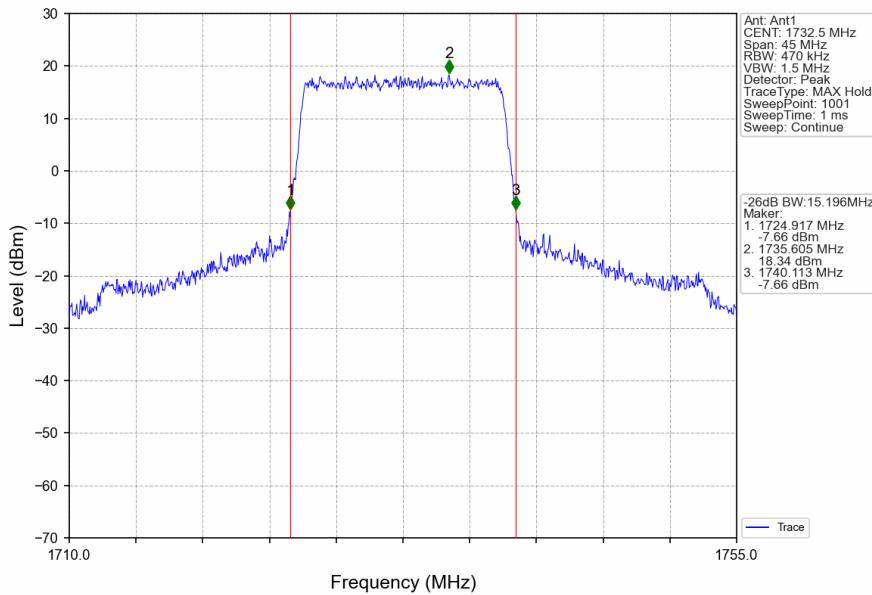


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Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV**Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV**

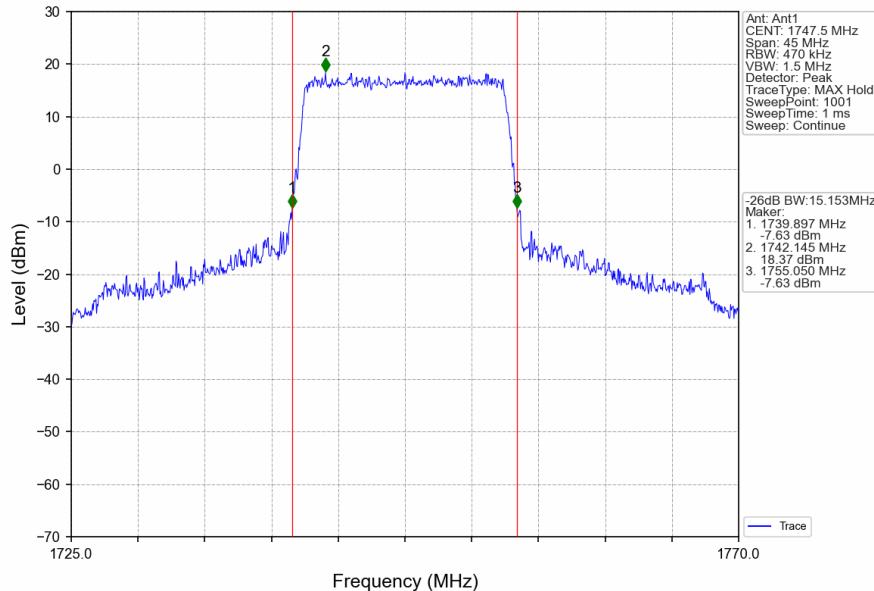
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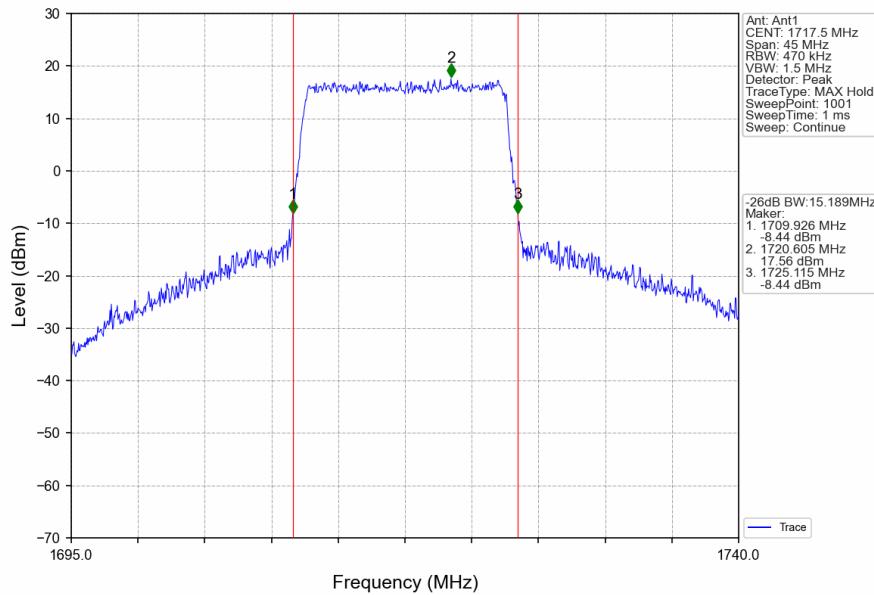


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Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



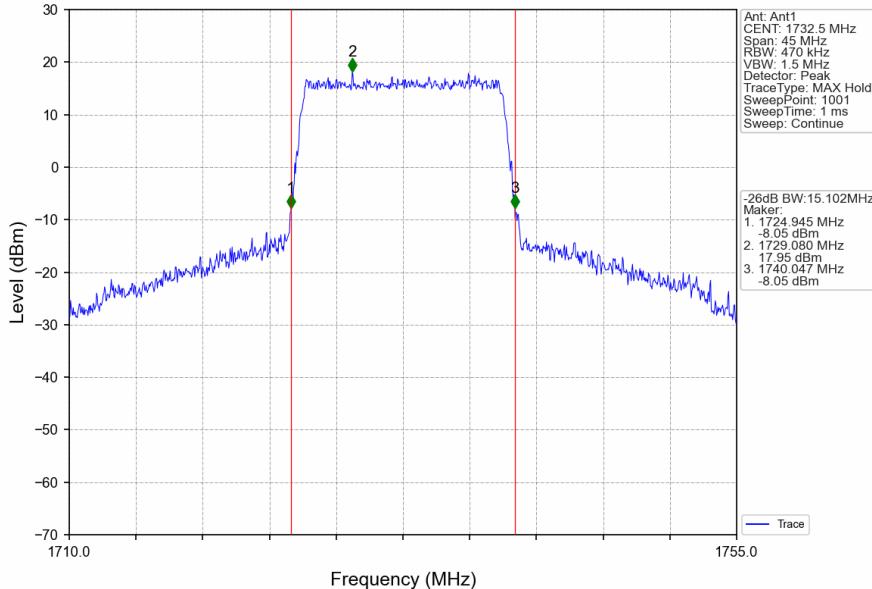
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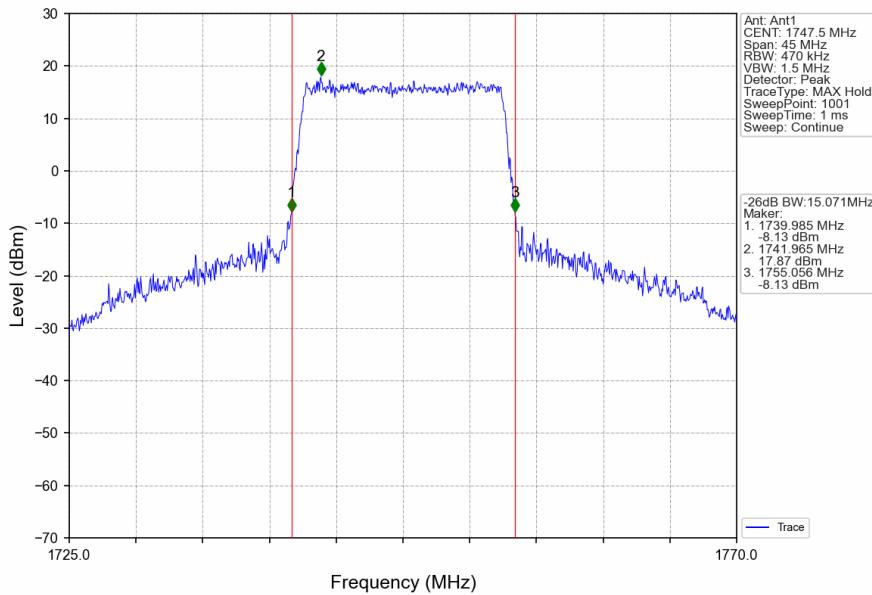
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Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV

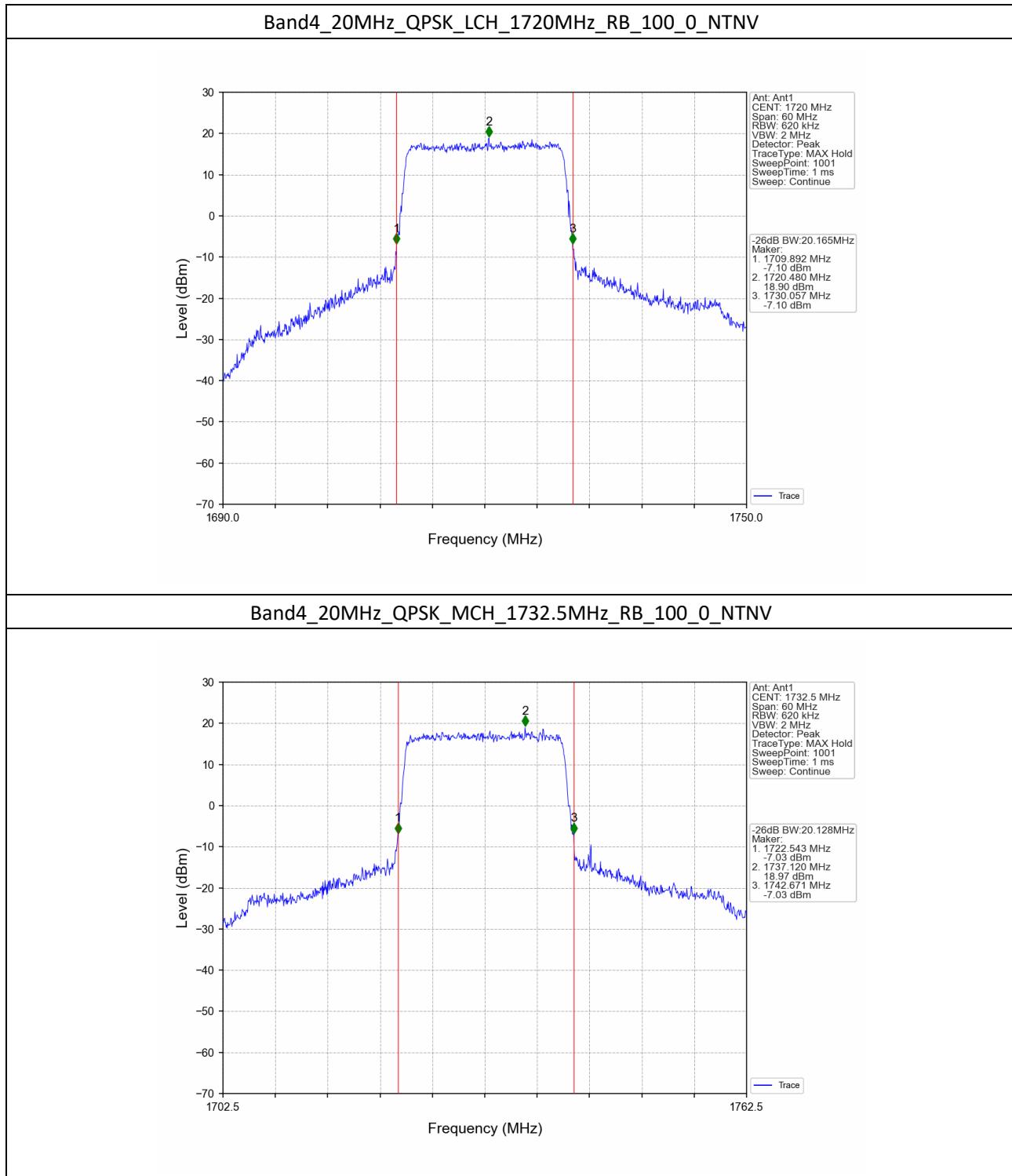


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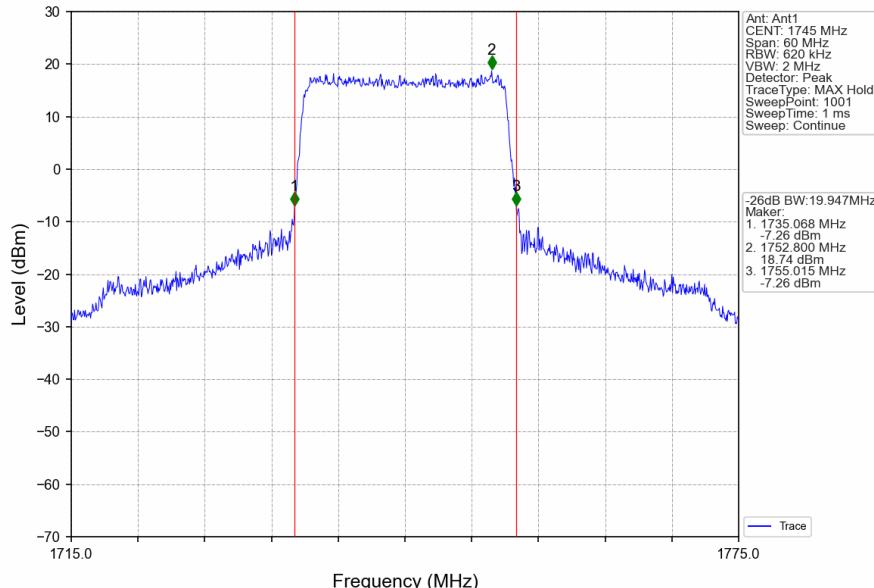


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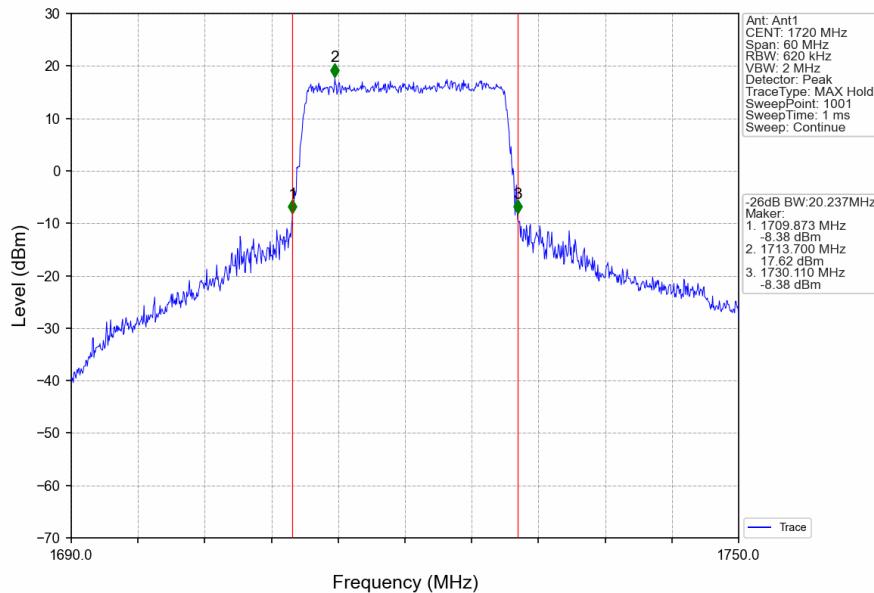
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Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



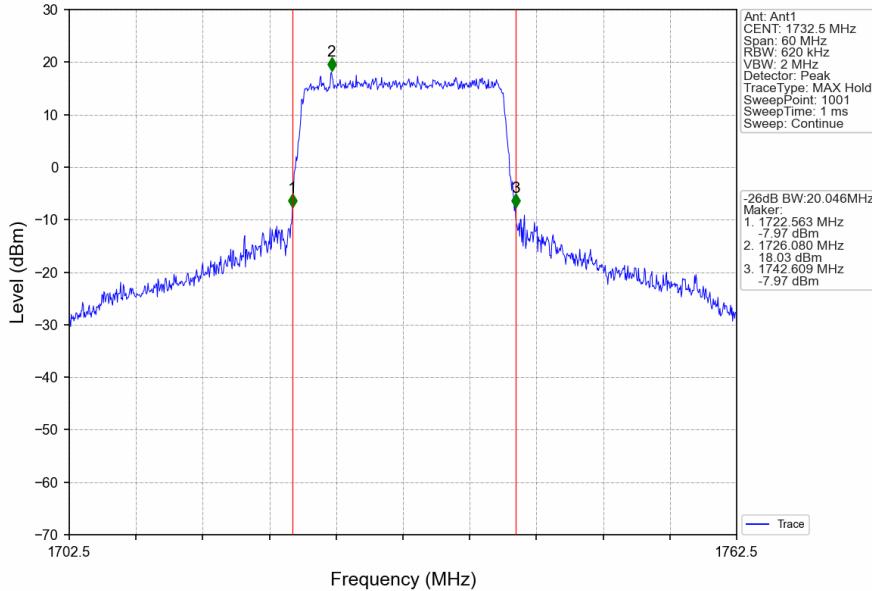
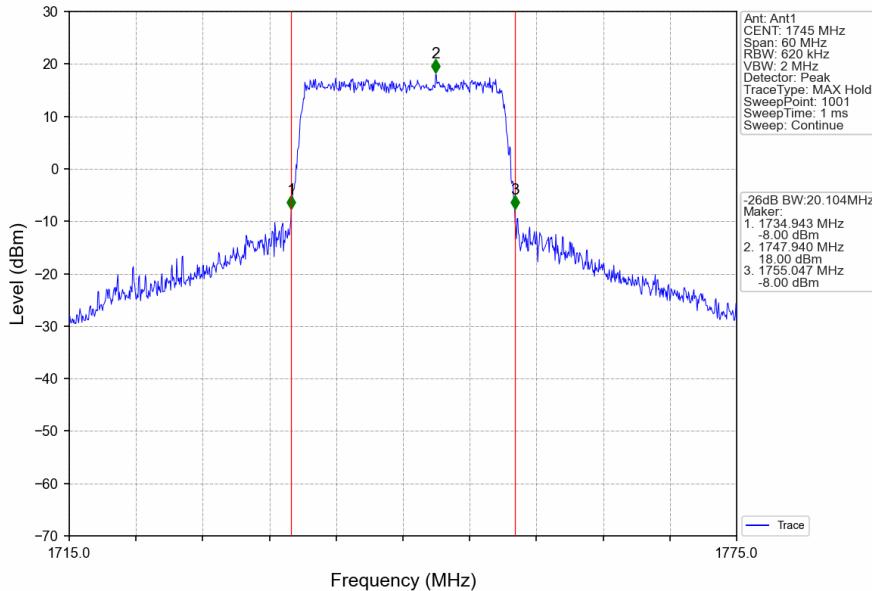
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



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Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV**Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV**

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4. Peak-Average Ratio

4.1 Test Result

4.1.1 B4_1.4MHz

| Band: 4 / Bandwidth: 1.4MHz / NTV | | | | | | |
|-----------------------------------|--------------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1710.7 | 6 | 0 | 4.49 | <=13 | Pass |
| | 1732.5 | 6 | 0 | 4.20 | <=13 | Pass |
| | 1754.3 | 6 | 0 | 4.80 | <=13 | Pass |
| 16QAM | 1710.7 | 6 | 0 | 5.45 | <=13 | Pass |
| | 1732.5 | 6 | 0 | 5.18 | <=13 | Pass |
| | 1754.3 | 6 | 0 | 5.72 | <=13 | Pass |

4.1.2 B4_3MHz

| Band: 4 / Bandwidth: 3MHz / NTV | | | | | | |
|---------------------------------|--------------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1711.5 | 15 | 0 | 4.82 | <=13 | Pass |
| | 1732.5 | 15 | 0 | 4.50 | <=13 | Pass |
| | 1753.5 | 15 | 0 | 4.89 | <=13 | Pass |
| 16QAM | 1711.5 | 15 | 0 | 5.70 | <=13 | Pass |
| | 1732.5 | 15 | 0 | 5.43 | <=13 | Pass |
| | 1753.5 | 15 | 0 | 5.80 | <=13 | Pass |

4.1.3 B4_5MHz

| Band: 4 / Bandwidth: 5MHz / NTV | | | | | | |
|---------------------------------|--------------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1712.5 | 25 | 0 | 5.04 | <=13 | Pass |
| | 1732.5 | 25 | 0 | 4.81 | <=13 | Pass |
| | 1752.5 | 25 | 0 | 5.12 | <=13 | Pass |
| 16QAM | 1712.5 | 25 | 0 | 5.87 | <=13 | Pass |



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| | | | | | | |
|--|--------|----|---|------|------|------|
| | 1732.5 | 25 | 0 | 5.67 | <=13 | Pass |
| | 1752.5 | 25 | 0 | 5.99 | <=13 | Pass |

4.1.4 B4_10MHz

| Band: 4 / Bandwidth: 10MHz / NTV | | | | | | |
|----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1715 | 50 | 0 | 5.15 | <=13 | Pass |
| | 1732.5 | 50 | 0 | 4.87 | <=13 | Pass |
| | 1750 | 50 | 0 | 5.18 | <=13 | Pass |
| 16QAM | 1715 | 50 | 0 | 5.97 | <=13 | Pass |
| | 1732.5 | 50 | 0 | 5.69 | <=13 | Pass |
| | 1750 | 50 | 0 | 5.99 | <=13 | Pass |

4.1.5 B4_15MHz

| Band: 4 / Bandwidth: 15MHz / NTV | | | | | | |
|----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1717.5 | 75 | 0 | 5.12 | <=13 | Pass |
| | 1732.5 | 75 | 0 | 4.78 | <=13 | Pass |
| | 1747.5 | 75 | 0 | 5.03 | <=13 | Pass |
| 16QAM | 1717.5 | 75 | 0 | 5.96 | <=13 | Pass |
| | 1732.5 | 75 | 0 | 5.64 | <=13 | Pass |
| | 1747.5 | 75 | 0 | 5.89 | <=13 | Pass |

4.1.6 B4_20MHz

| Band: 4 / Bandwidth: 20MHz / NTV | | | | | | |
|----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1720 | 100 | 0 | 5.11 | <=13 | Pass |
| | 1732.5 | 100 | 0 | 4.89 | <=13 | Pass |
| | 1745 | 100 | 0 | 5.01 | <=13 | Pass |
| 16QAM | 1720 | 100 | 0 | 5.97 | <=13 | Pass |
| | 1732.5 | 100 | 0 | 5.74 | <=13 | Pass |
| | 1745 | 100 | 0 | 5.84 | <=13 | Pass |



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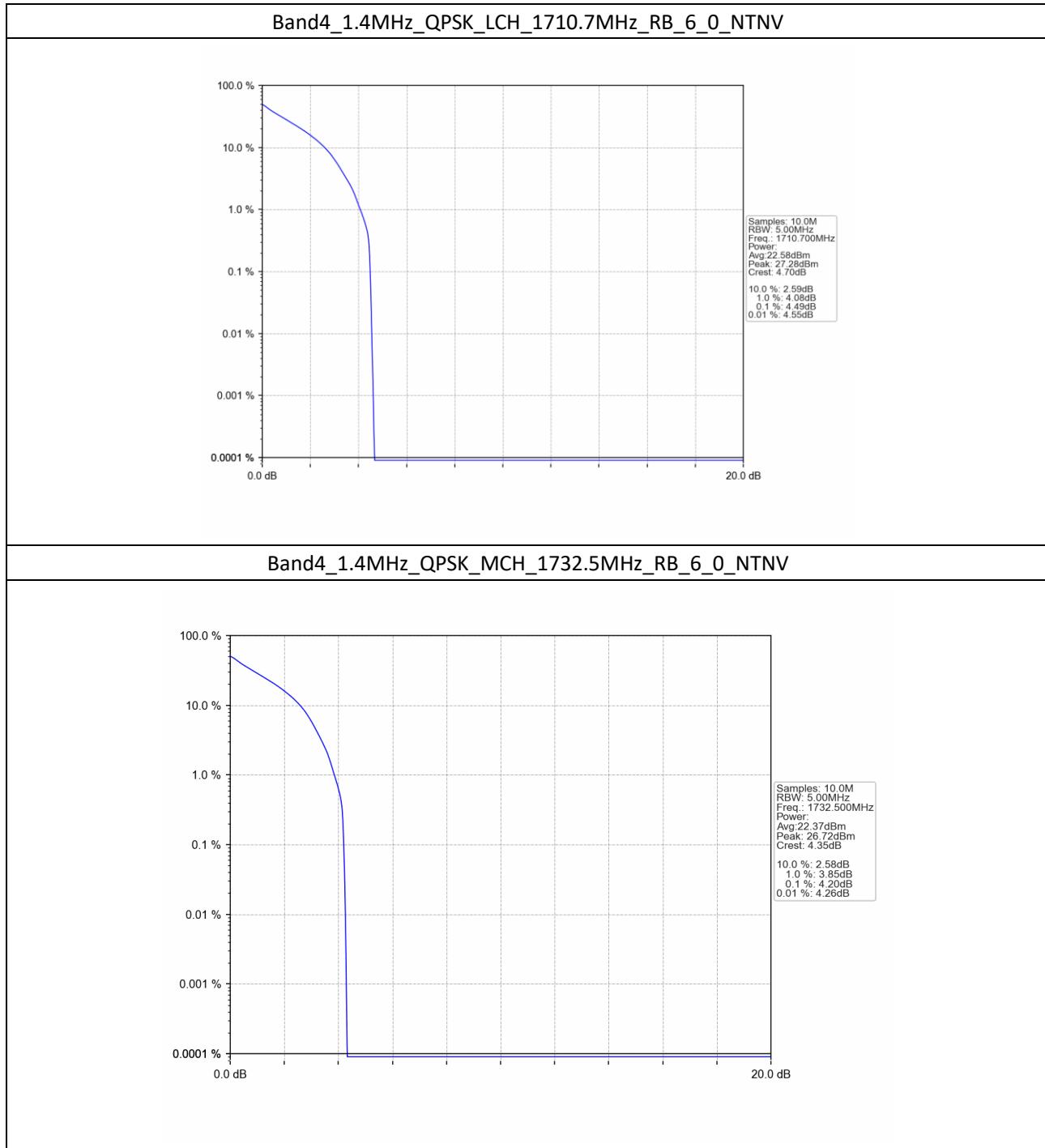
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4.2 Test Graph

4.2.1 B4_1.4MHz



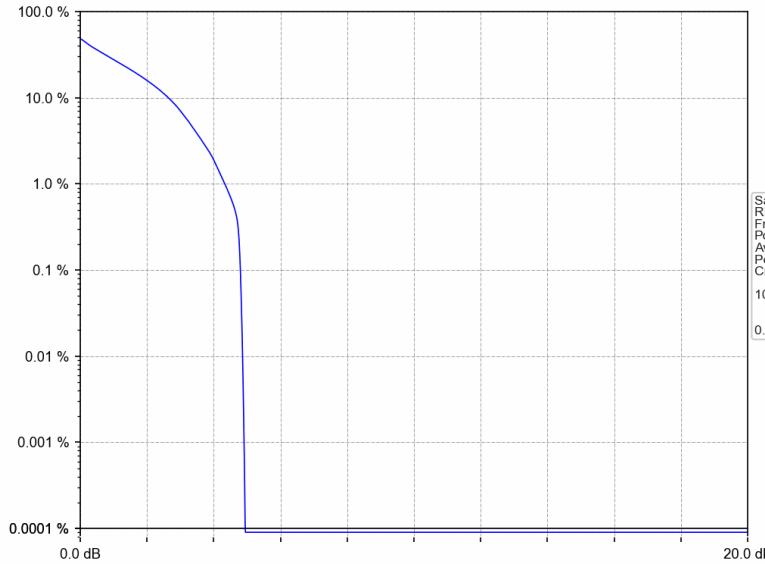
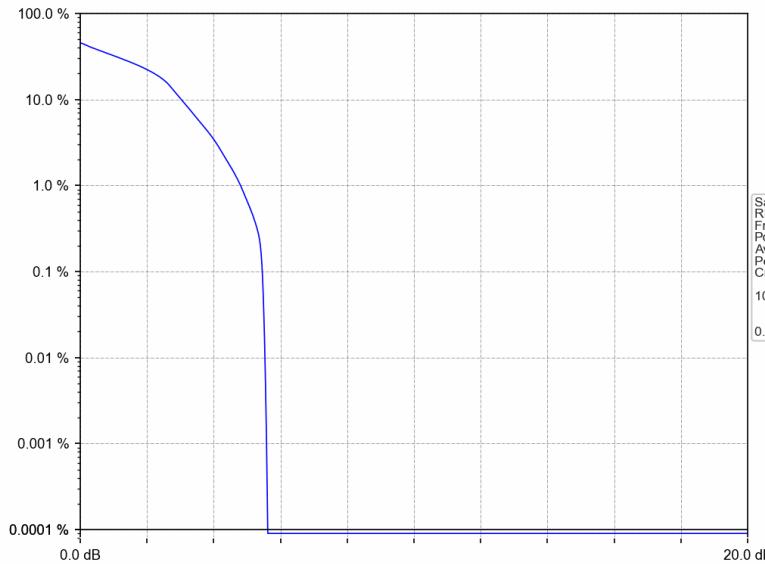
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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV**Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV**

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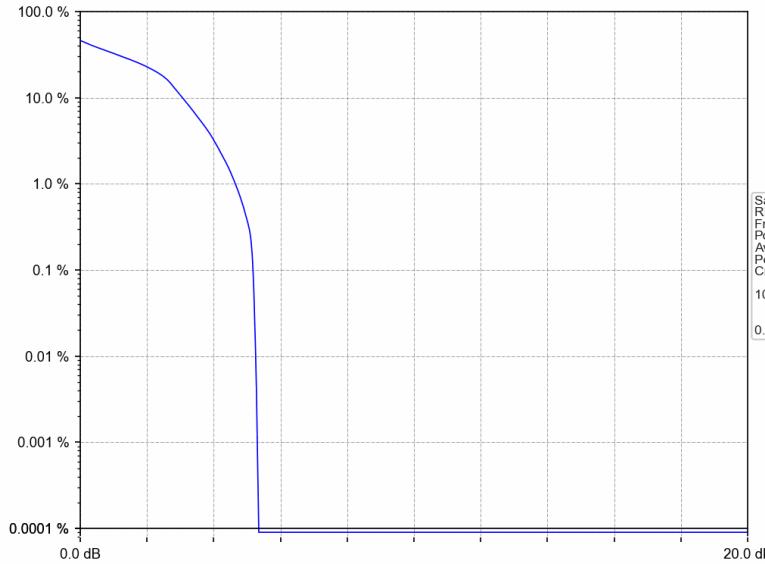
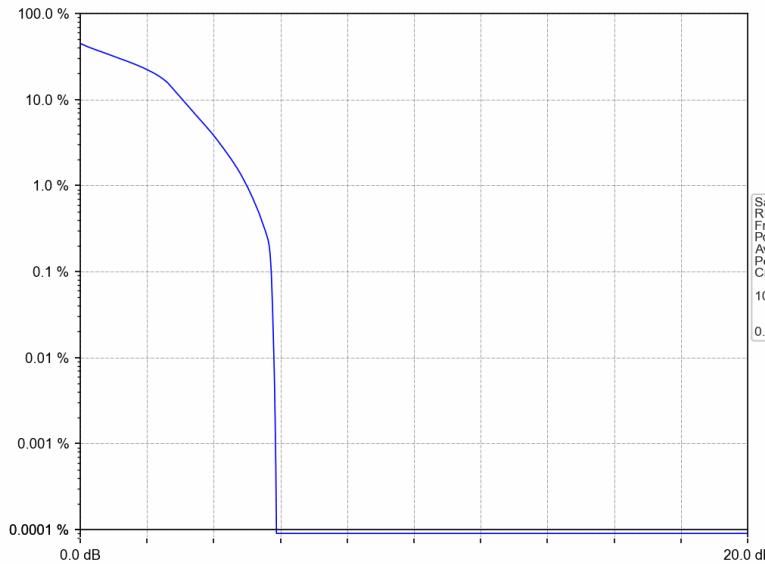
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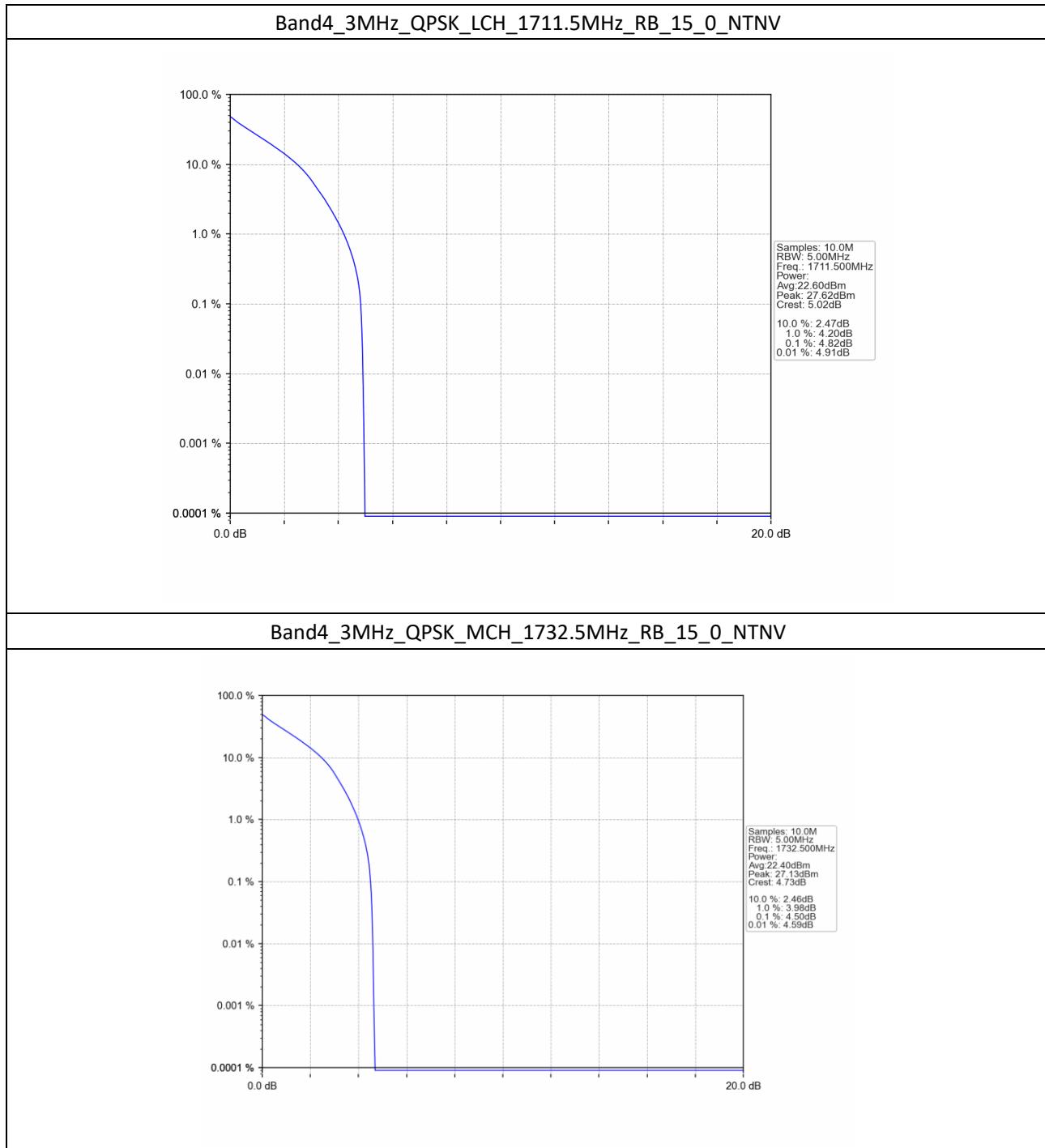
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV**Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV**

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4.2.2 B4_3MHz

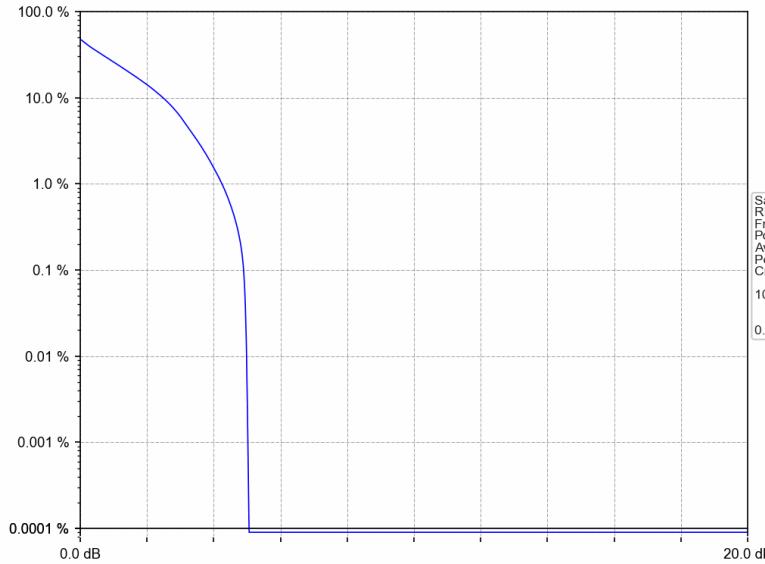
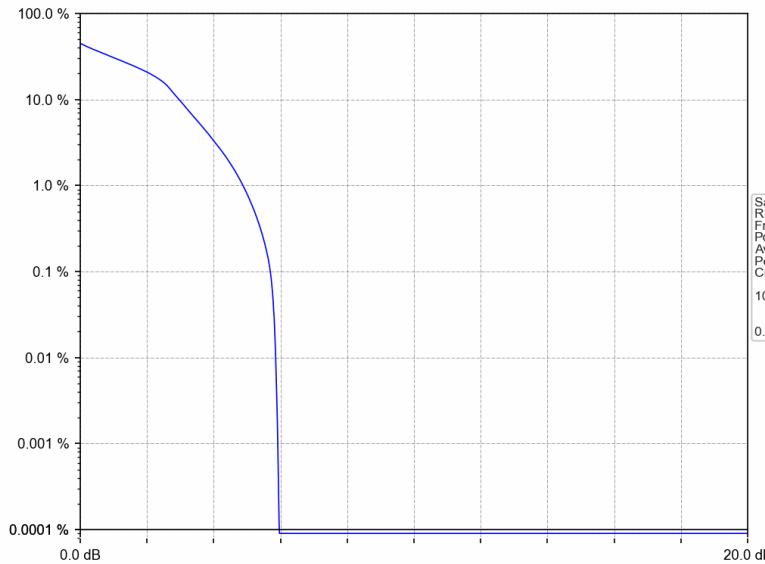
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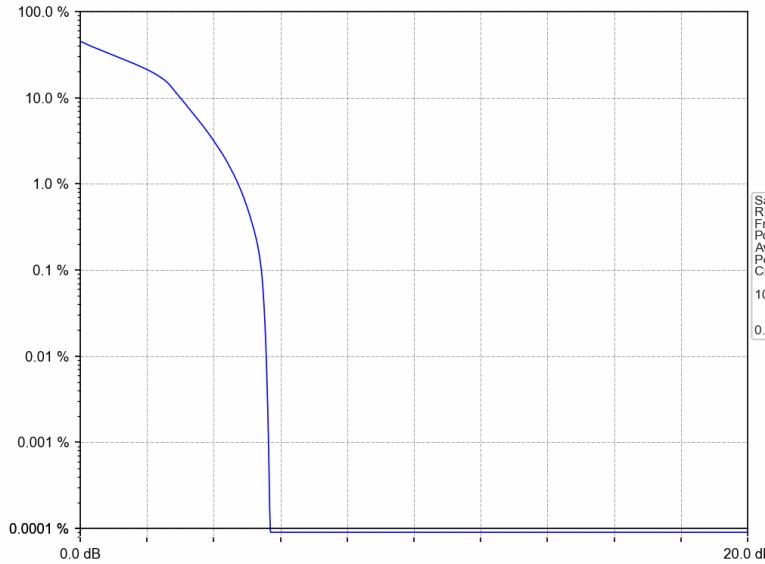
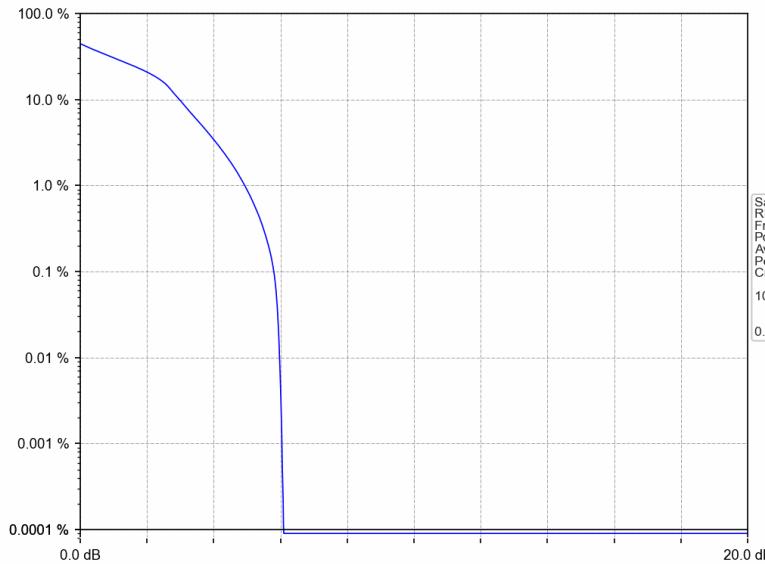
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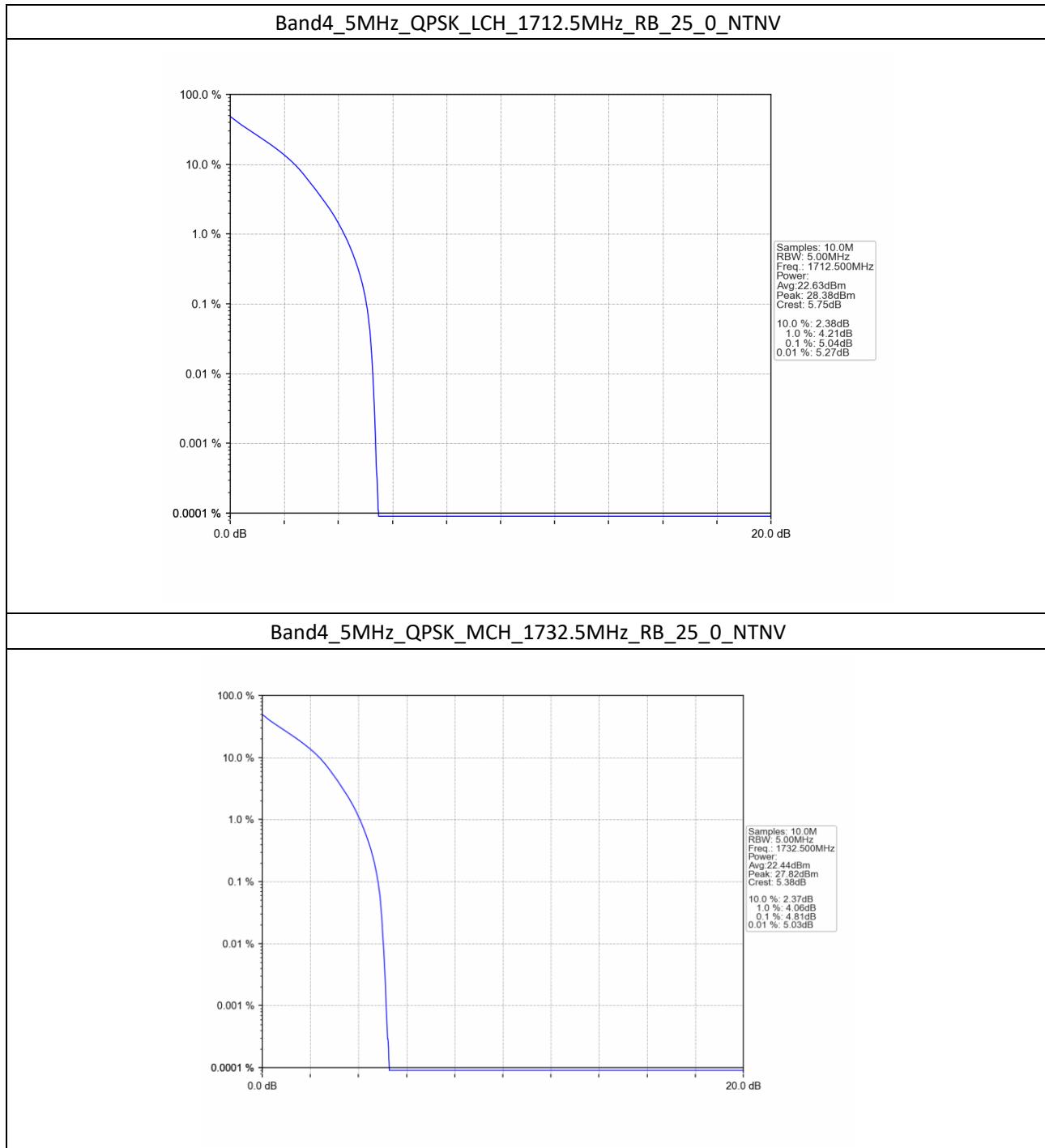
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Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV**Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV**

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4.2.3 B4_5MHz

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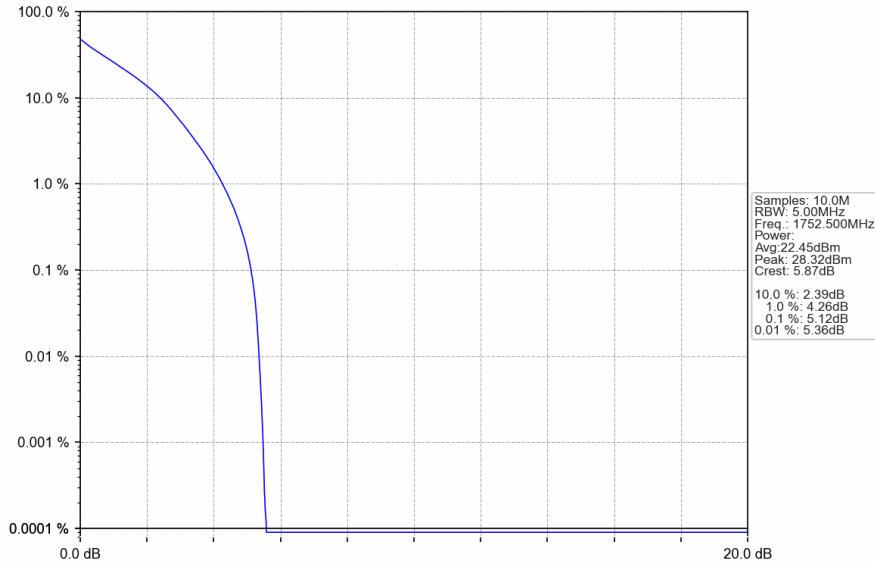
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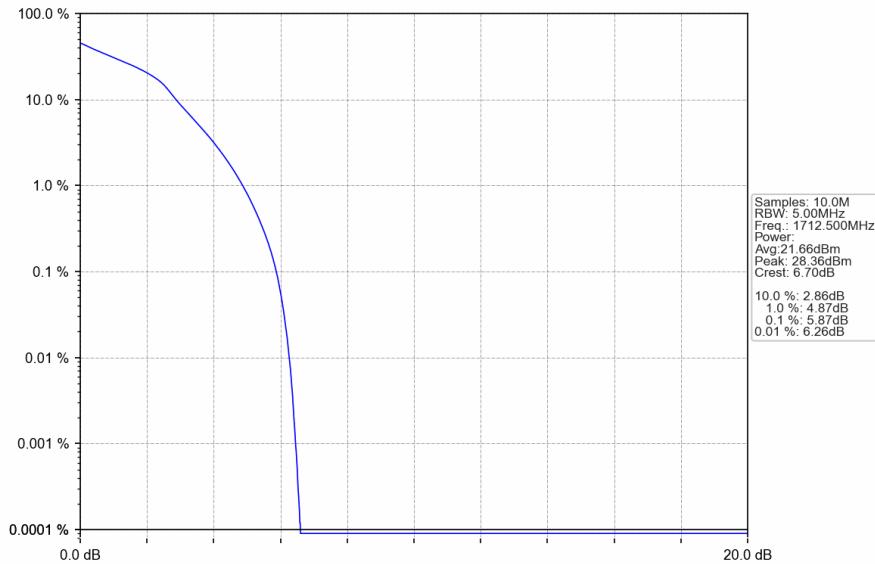
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Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNU



Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



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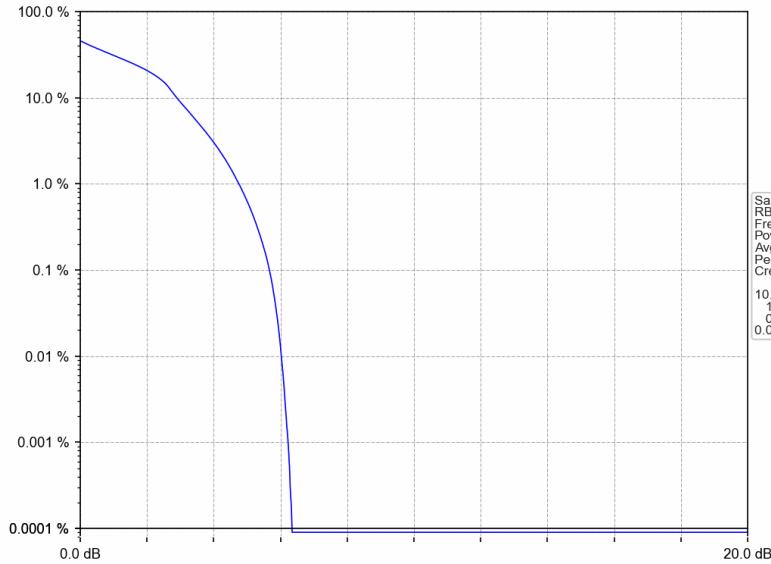
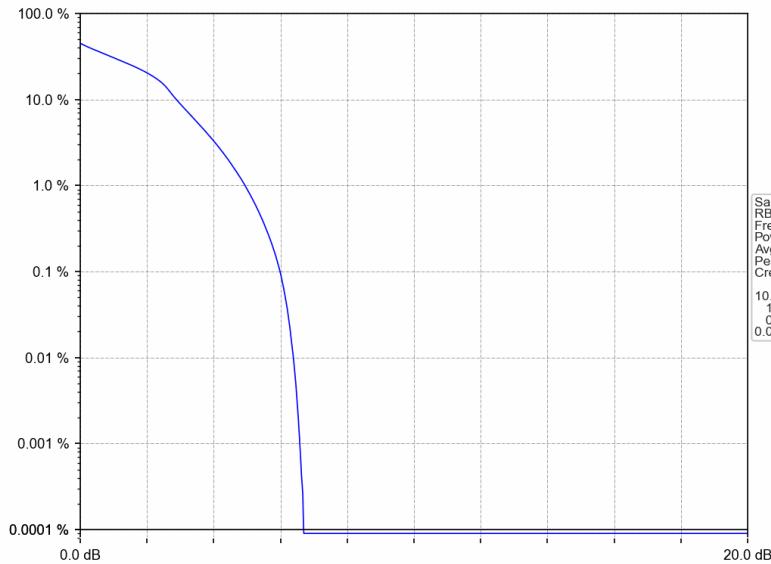
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10 of 10 | Page

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Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV**Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV**

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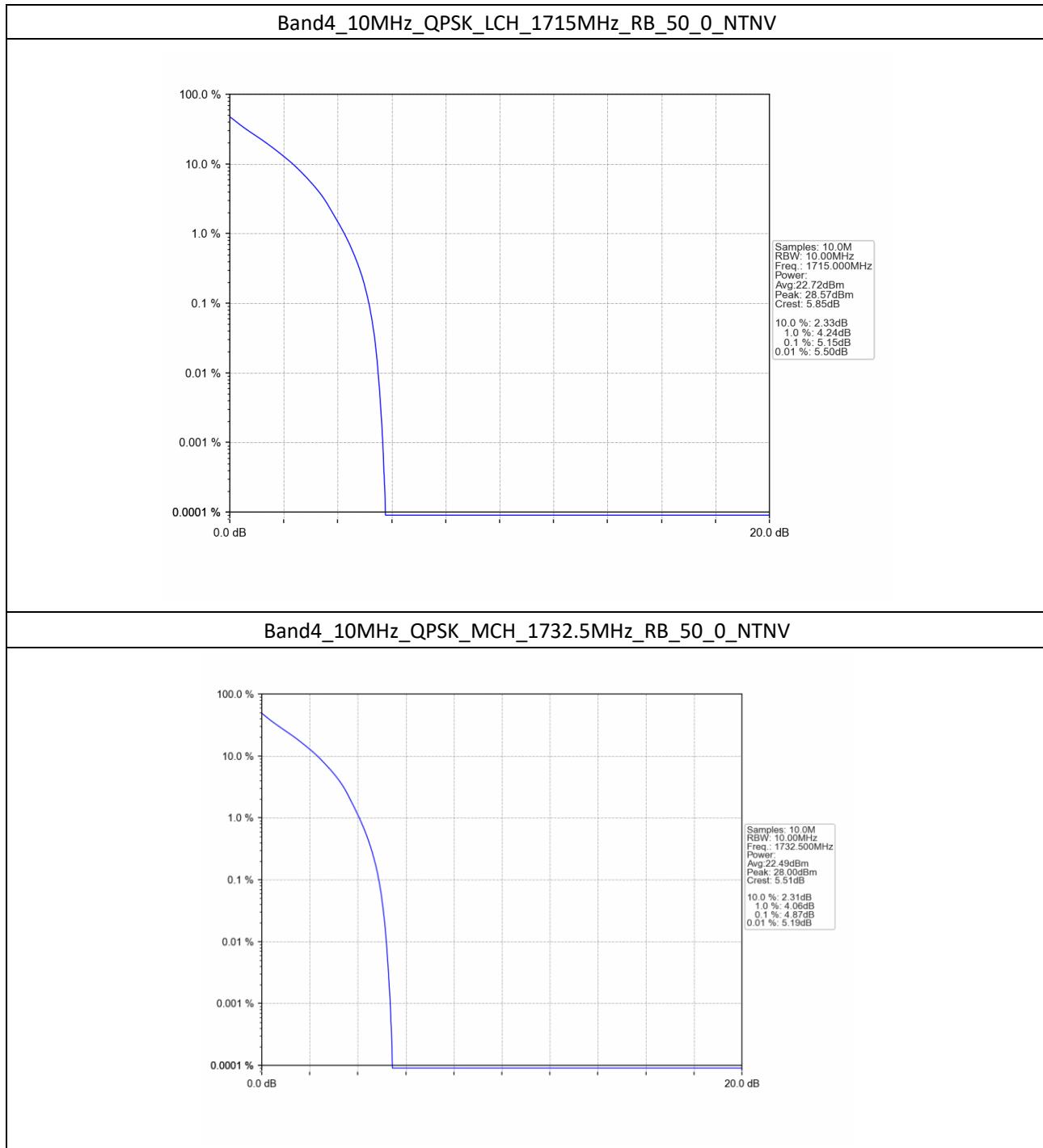
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4.2.4 B4_10MHz

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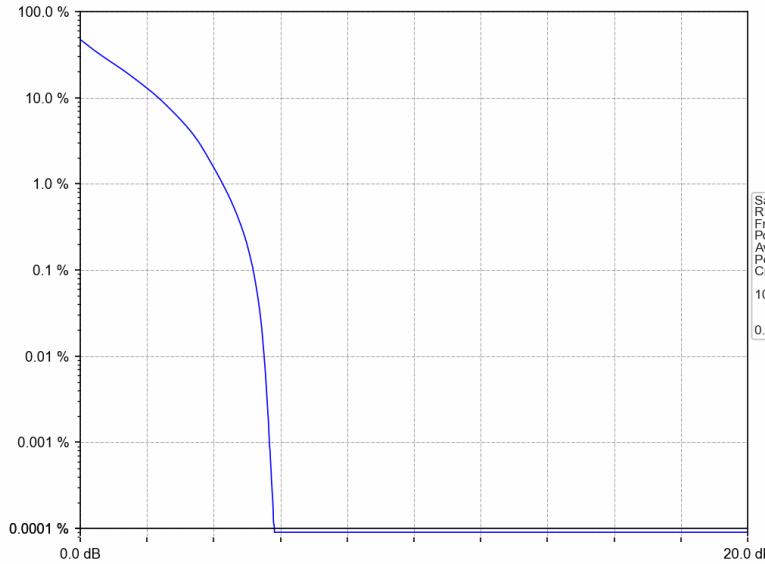
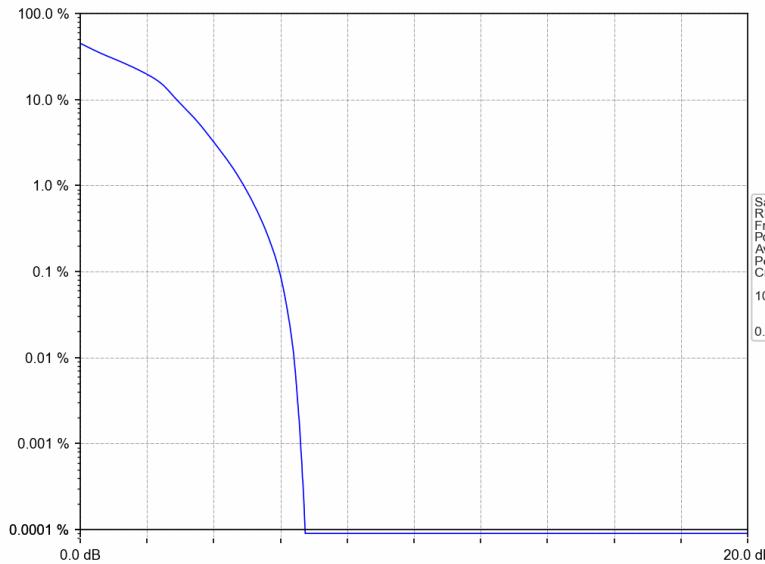
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Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV**Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV**

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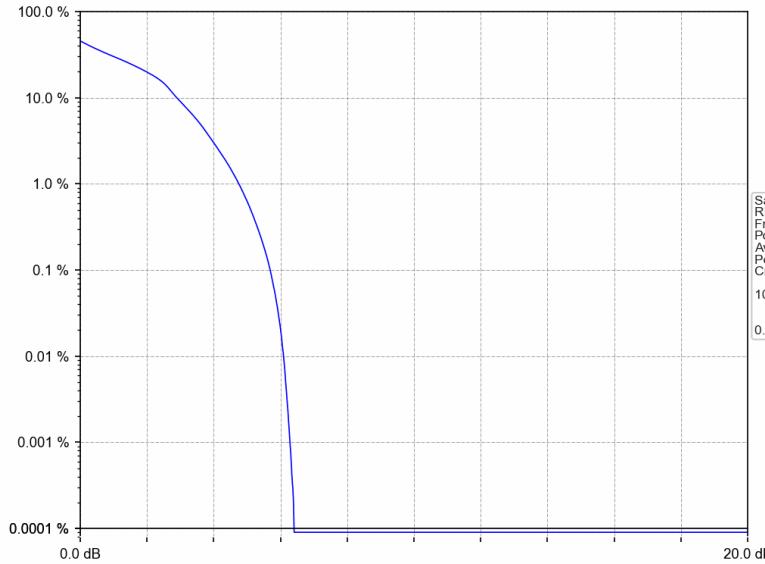
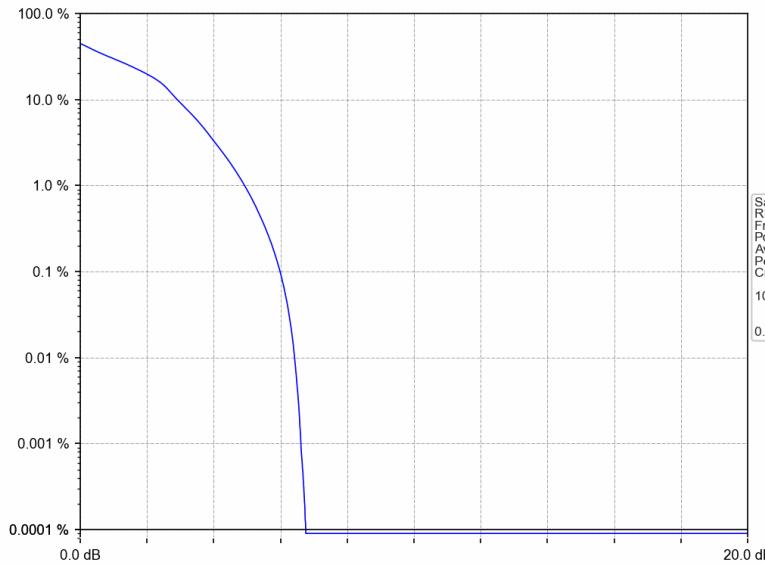
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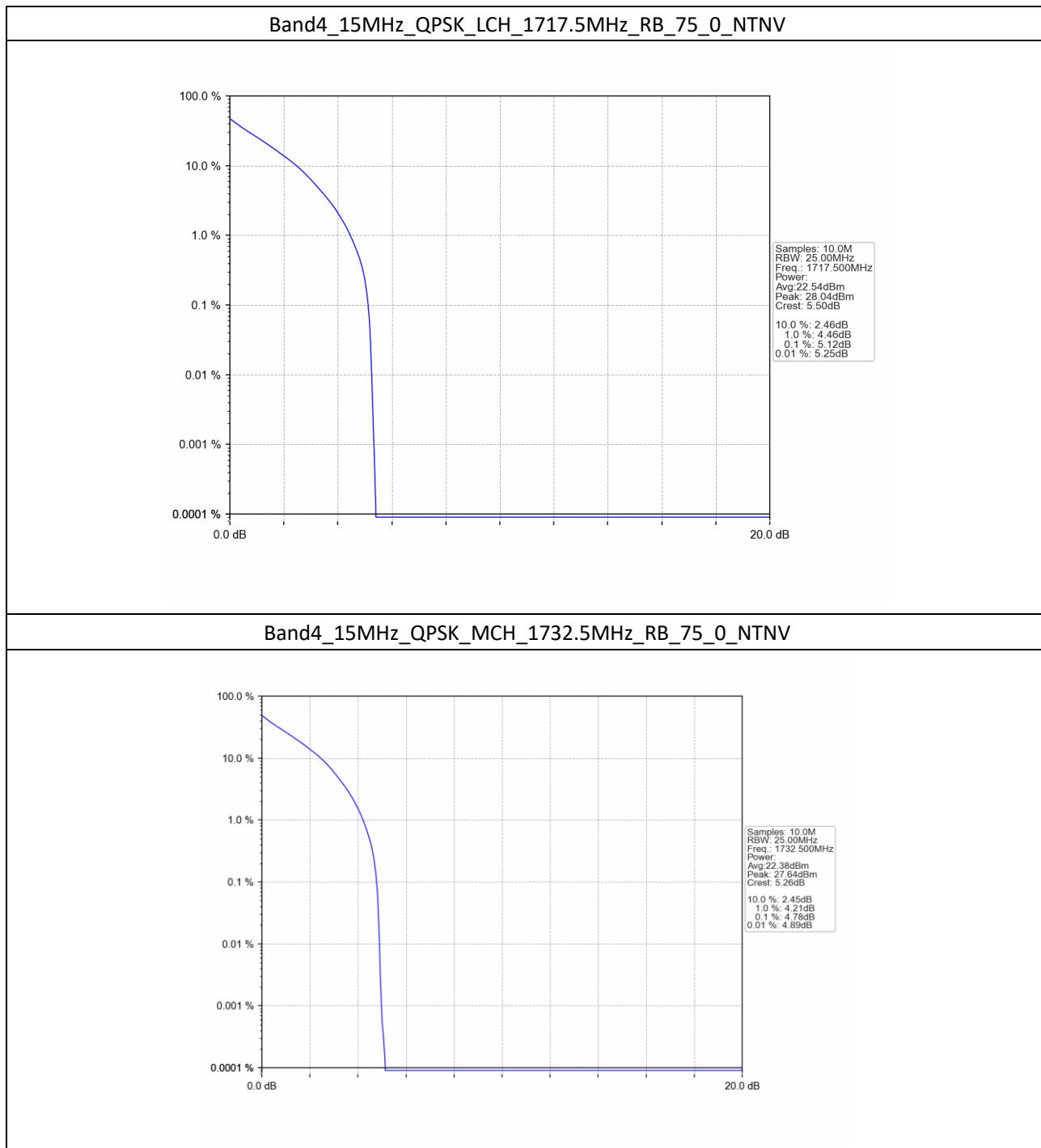
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV**Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV**

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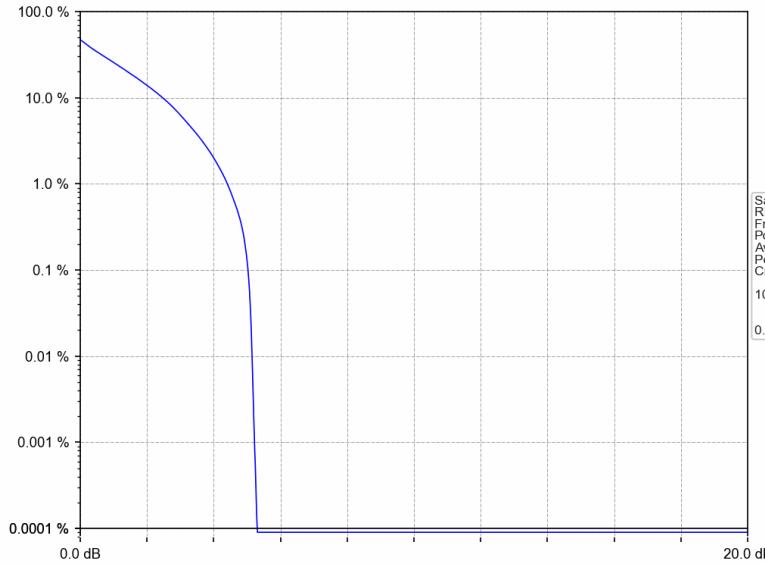
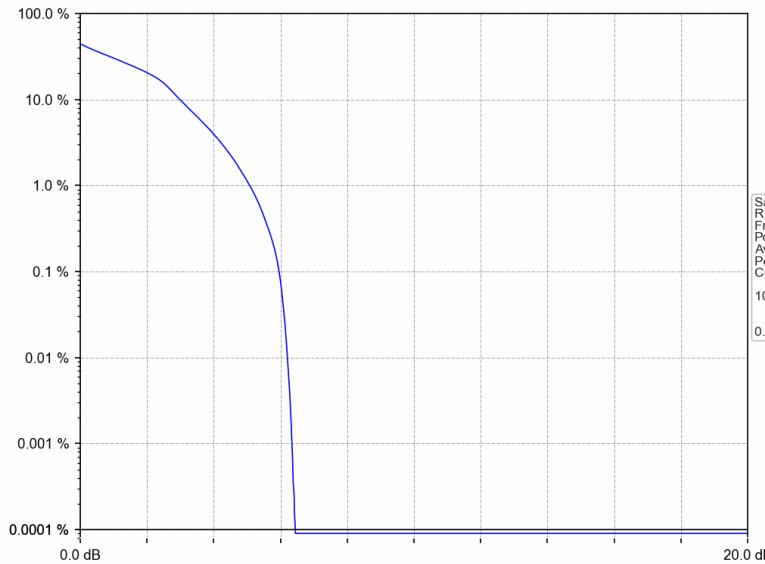
4.2.5 B4_15MHz

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Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV**Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV**

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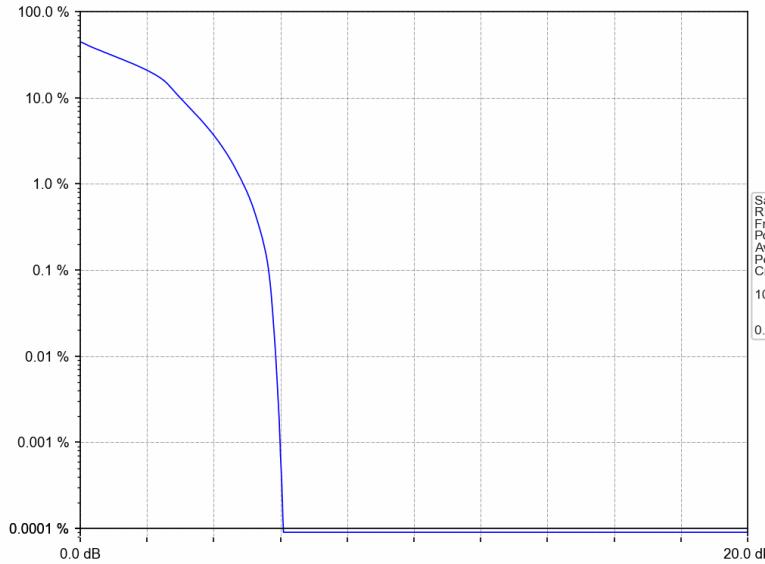
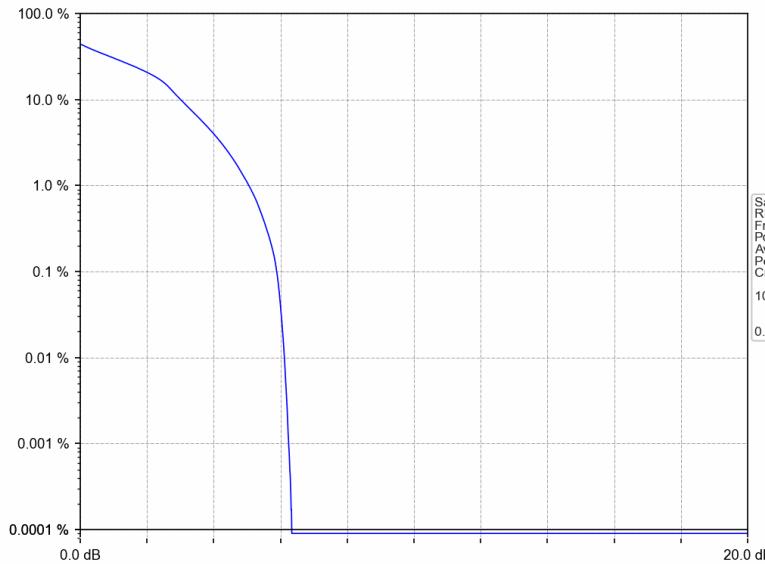
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Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV**Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV**

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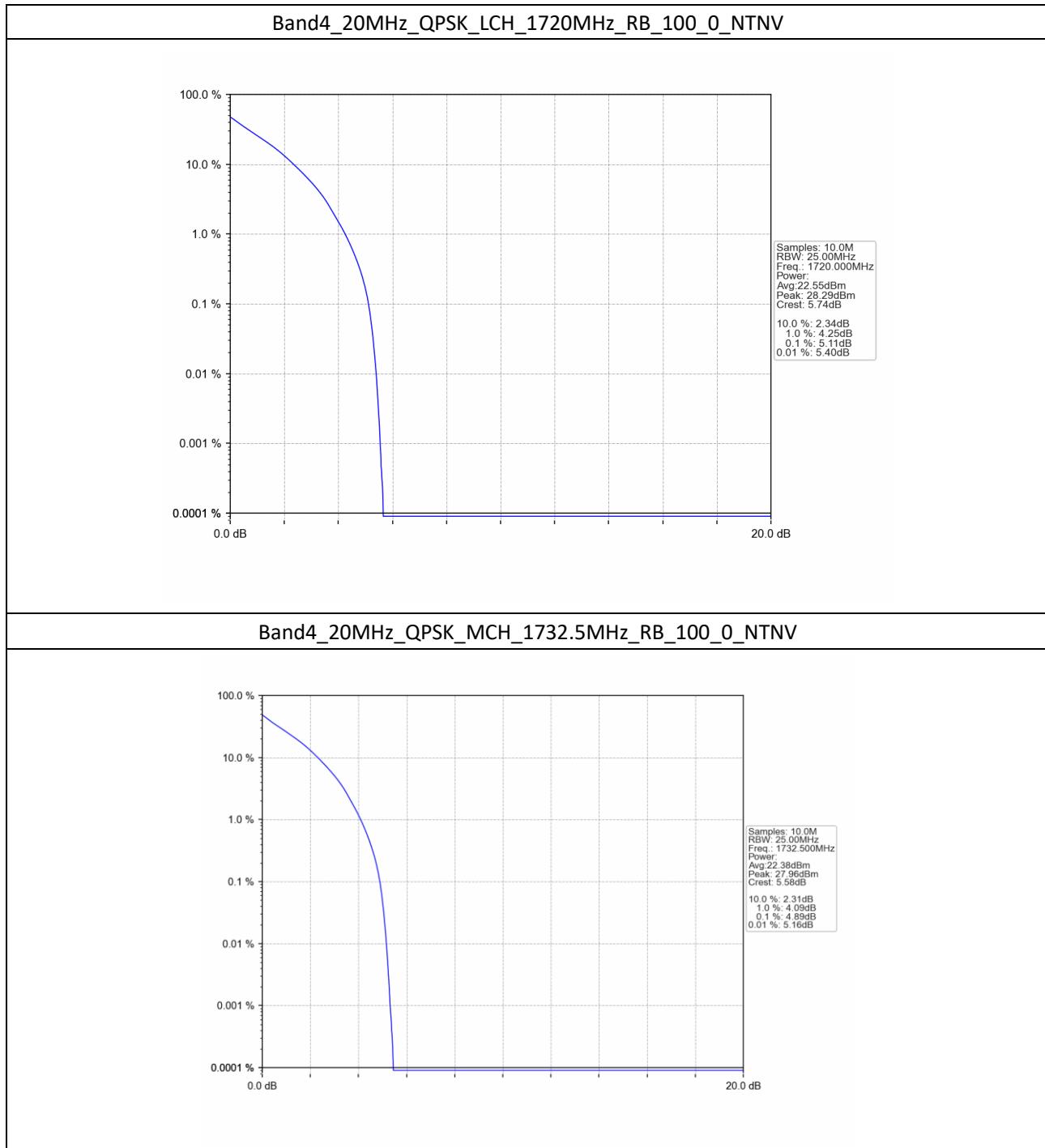
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4.2.6 B4_20MHz

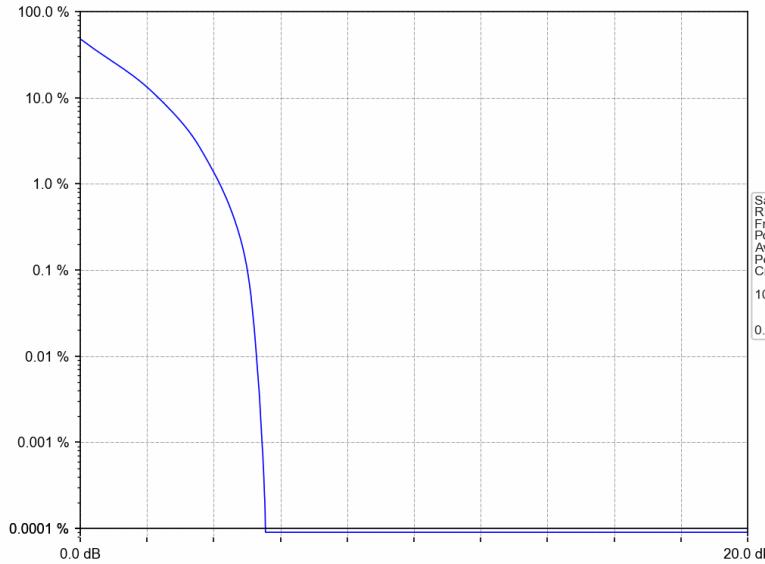
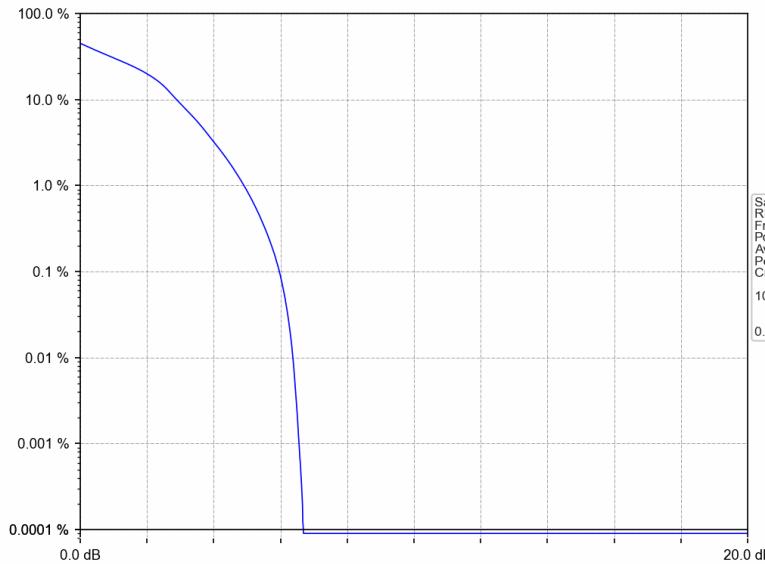
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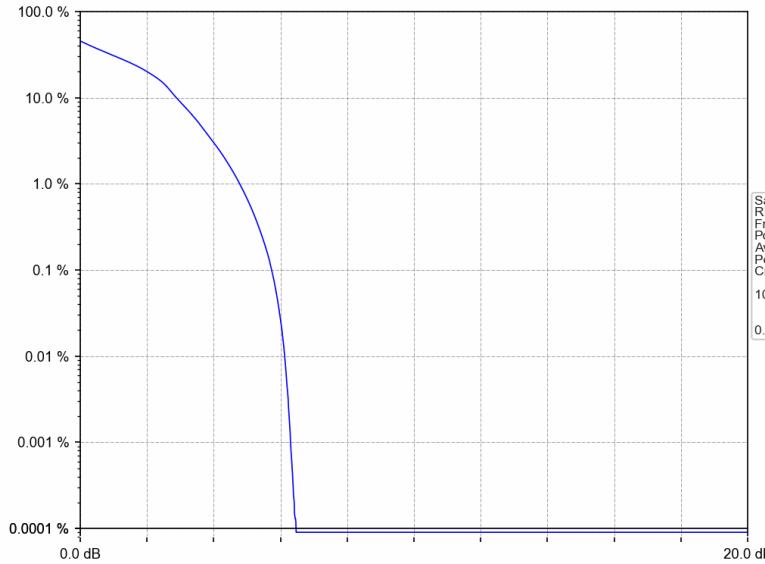
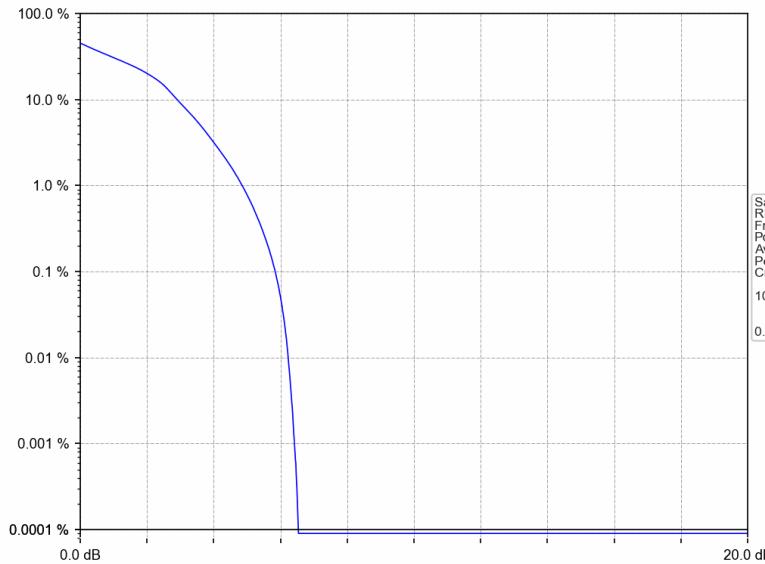
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV**Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV**

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Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV**Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV**

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5. Spurious Emission

5.1 Test Result

5.1.1 B4_1.4MHz

| Band: 4 / Bandwidth: 1.4MHz / NTV | | | | | | |
|-----------------------------------|--------------------|---------------|--------|---------------------|-------|---------|
| 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 |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1754.3 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 5 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1710.7 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1754.3 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 5 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |

5.1.2 B4_3MHz

| Band: 4 / Bandwidth: 3MHz / NTV | | | | | | |
|---------------------------------|--------------------|---------------|--------|---------------------|-------|---------|
| 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 |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1753.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 14 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1711.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1753.5 | 1 | 0 | Refer To Test Graph | | Pass |



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| | | | | |
|--|--|----|---------------------|---------------------|
| | | 14 | Refer To Test Graph | Pass |
| | | 15 | 0 | Refer To Test Graph |

5.1.3 B4_5MHz

| Band: 4 / Bandwidth: 5MHz / NTVN | | | | | | |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| 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 |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1752.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1712.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1752.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |

5.1.4 B4_10MHz

| Band: 4 / 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 |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1750 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1715 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1750 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |



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5.1.5 B4_15MHz

| Band: 4 / Bandwidth: 15MHz / NTV | | | | | | |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| 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 |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1747.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 74 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1717.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1747.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 74 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |

5.1.6 B4_20MHz

| Band: 4 / Bandwidth: 20MHz / NTV | | | | | | |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| 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 |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1745 | 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 |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1745 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 99 | Refer To Test Graph | | Pass |
| | | 100 | 0 | Refer To Test Graph | | Pass |

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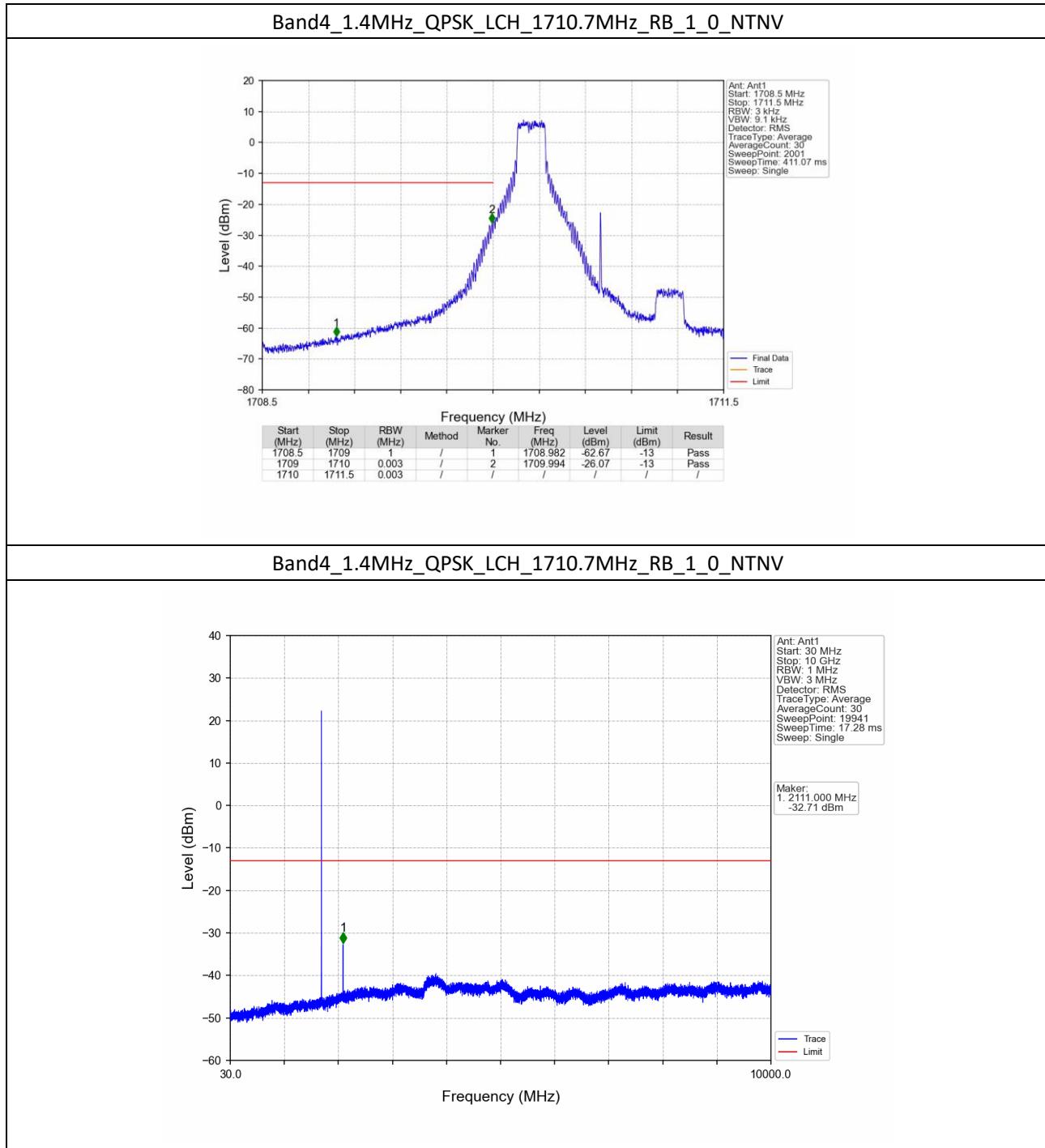
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5.2 Test Graph

5.2.1 B4_1.4MHz

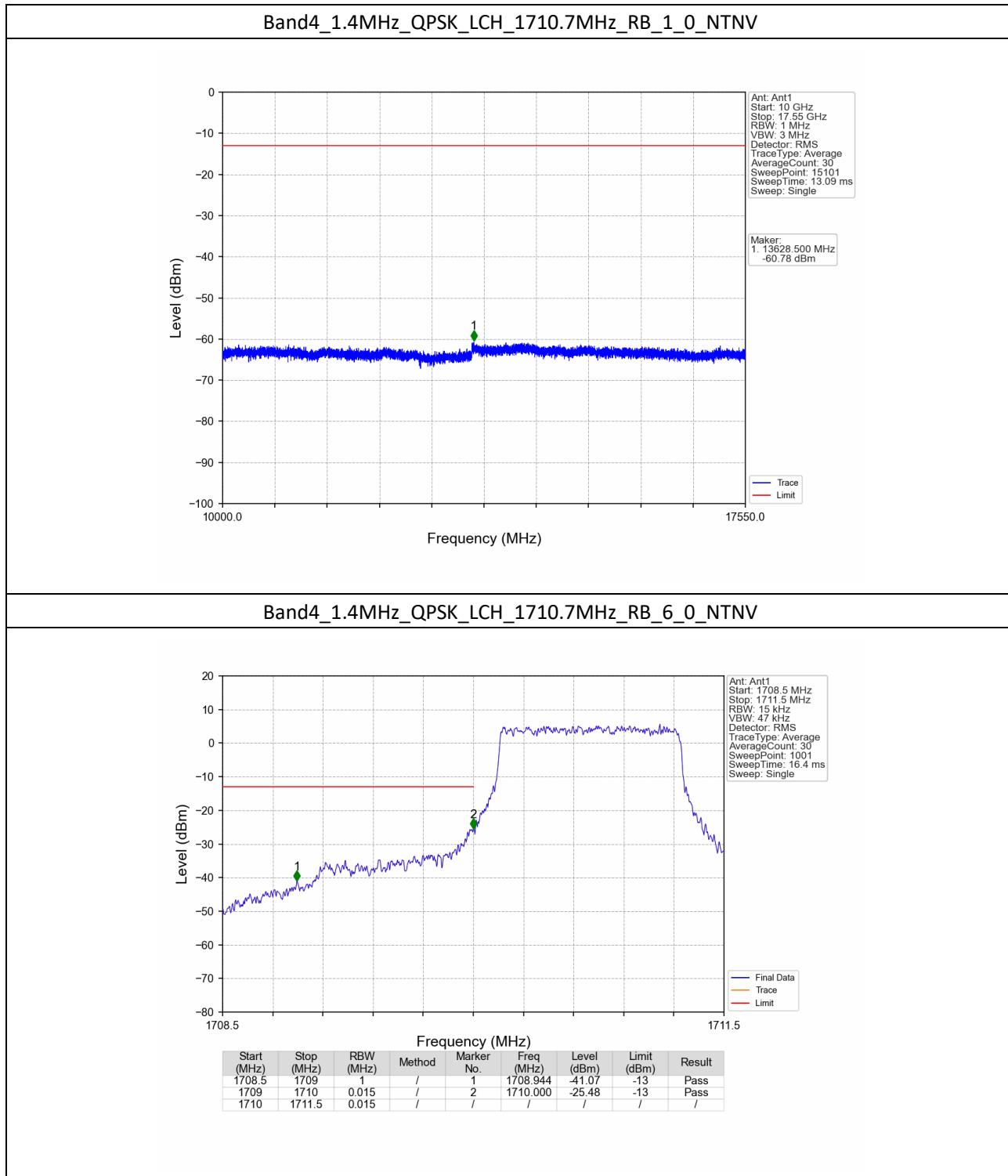


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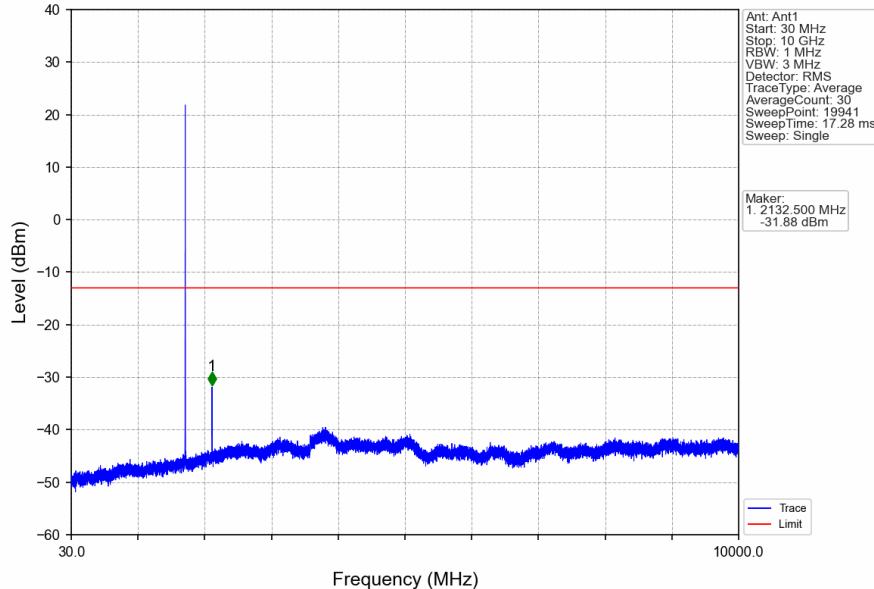
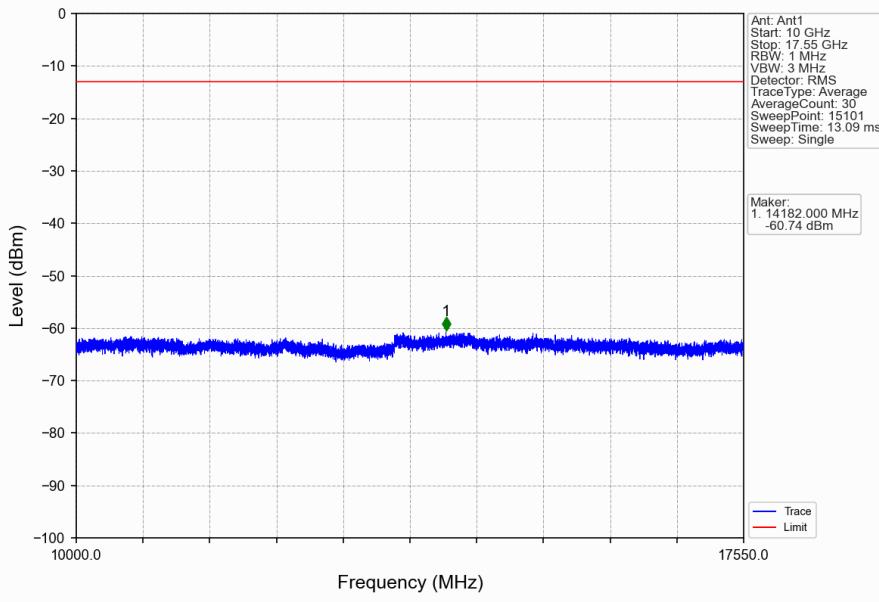


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Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV**Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV**

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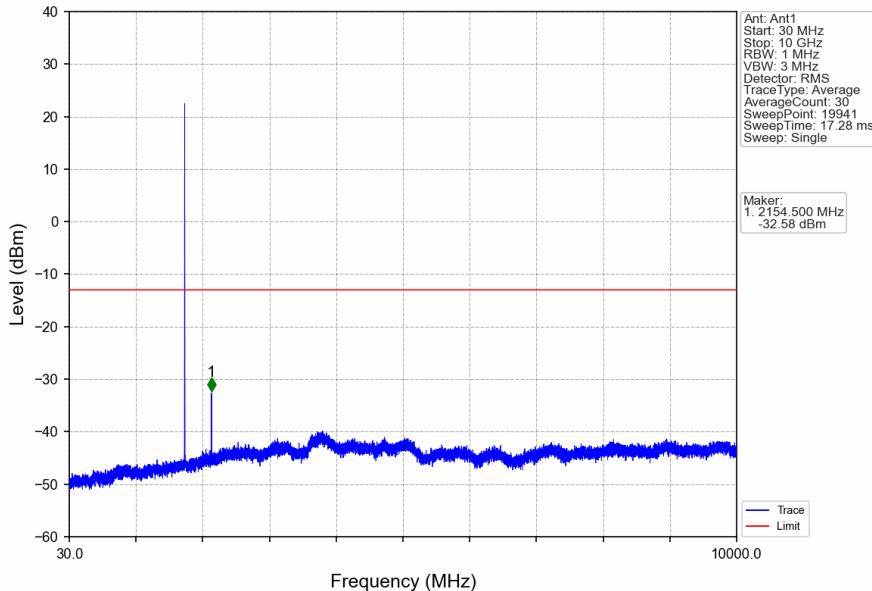
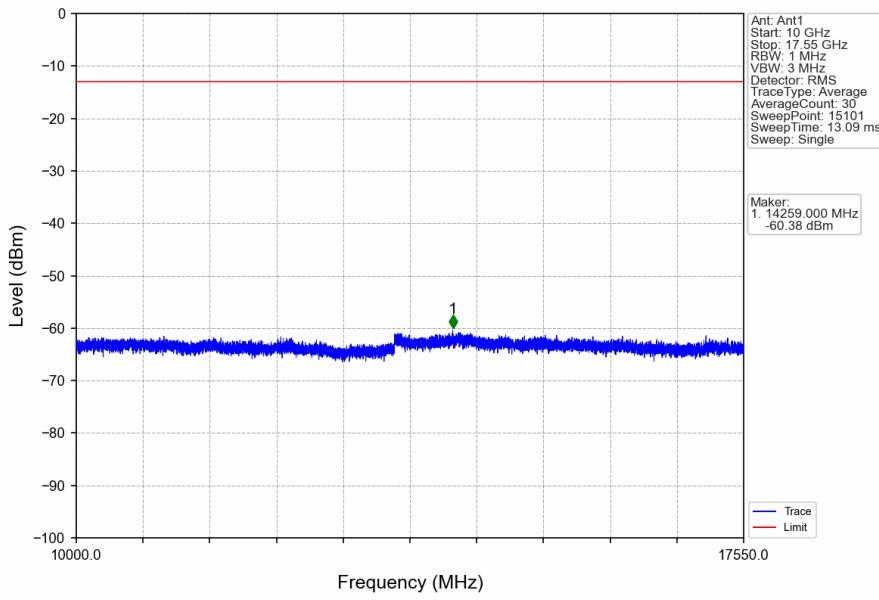
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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV**Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV**

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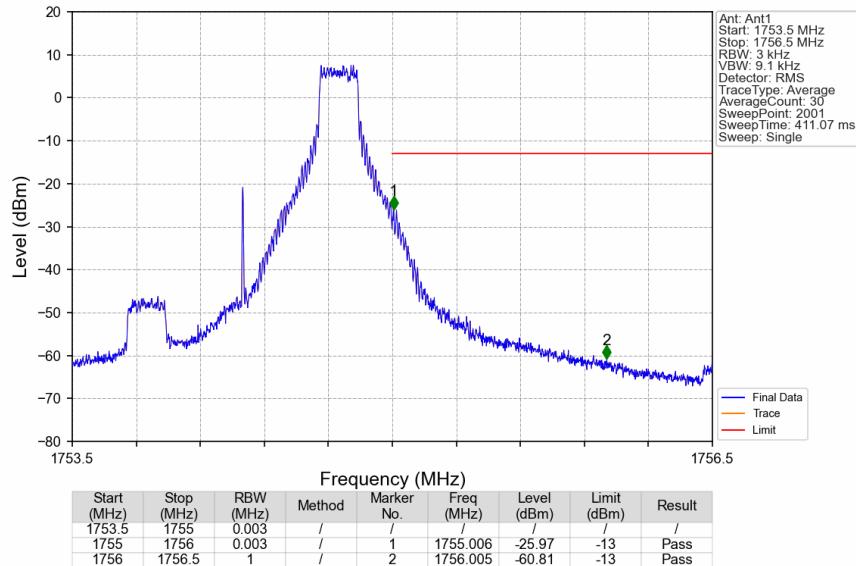
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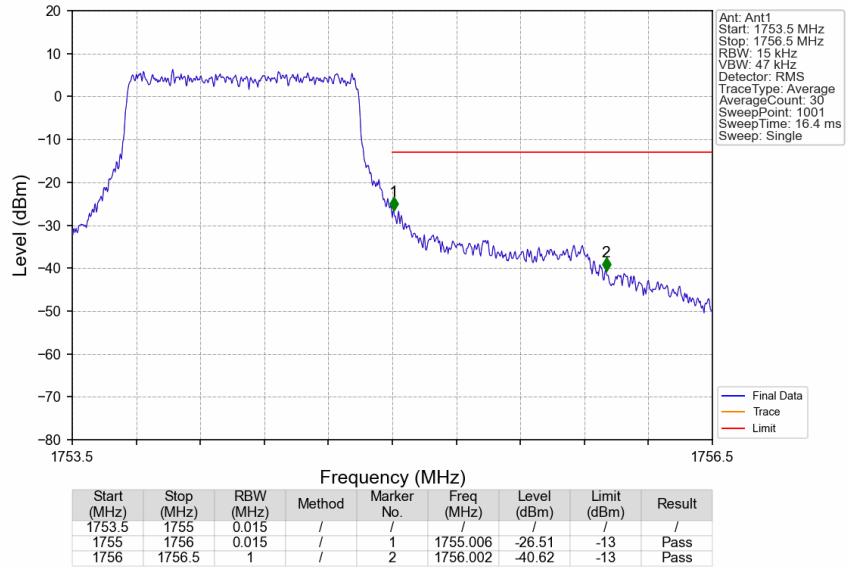
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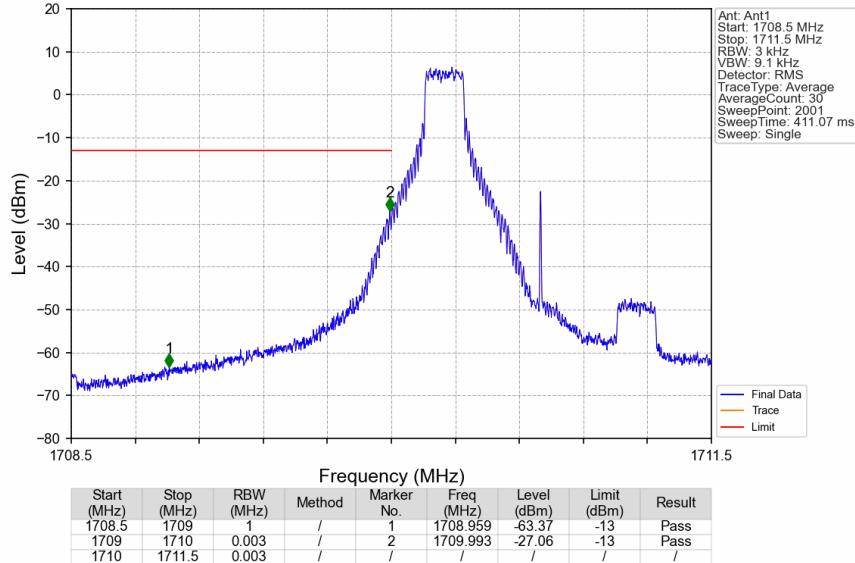
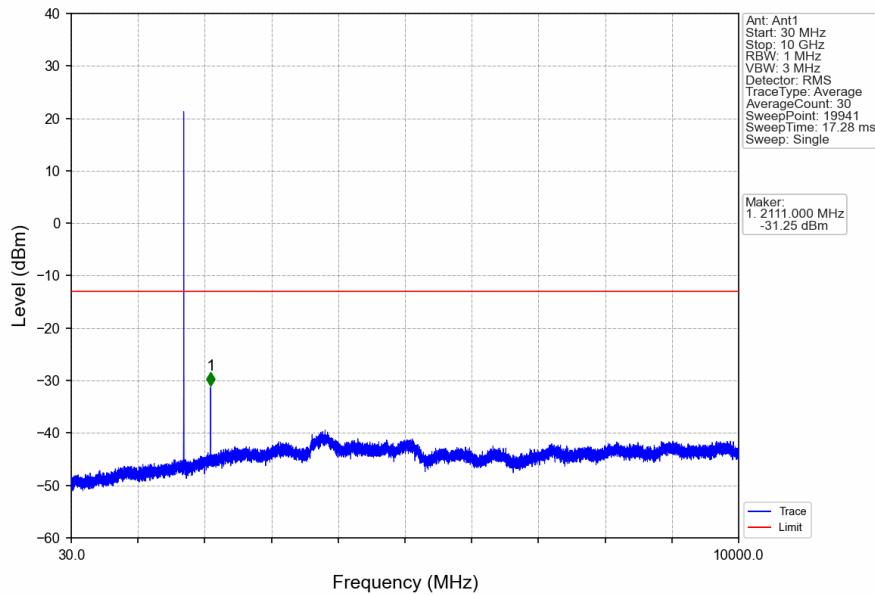


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Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV**Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV**

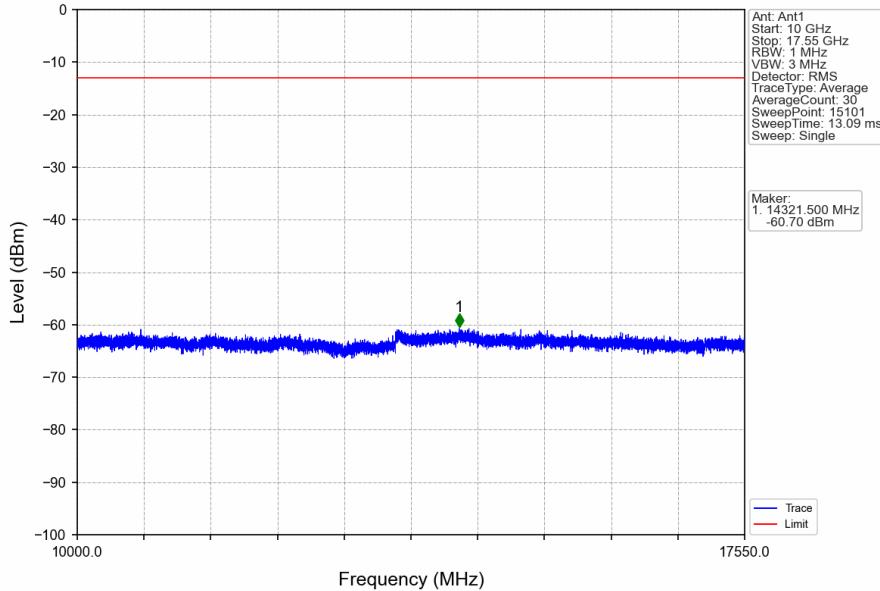
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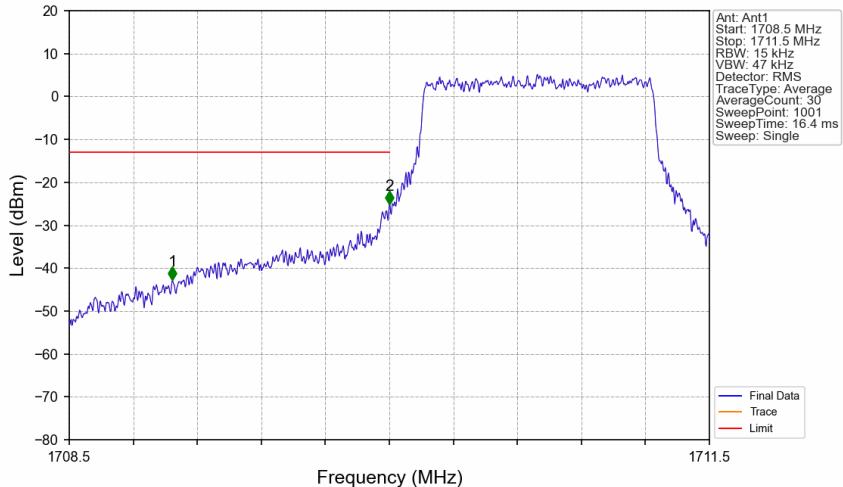


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Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



Band4_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 | 1708.983 | -42.83 | -13 | Pass |
| 1709 | 1710 | 0.015 | / | 2 | 1710.000 | -25.20 | -13 | Pass |
| 1710 | 1711.5 | 0.015 | / | / | / | / | / | / |

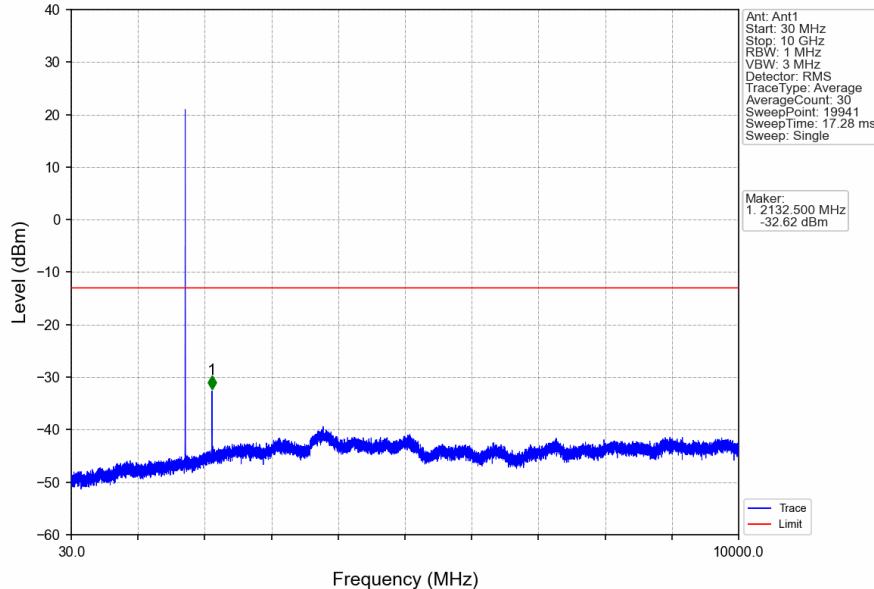
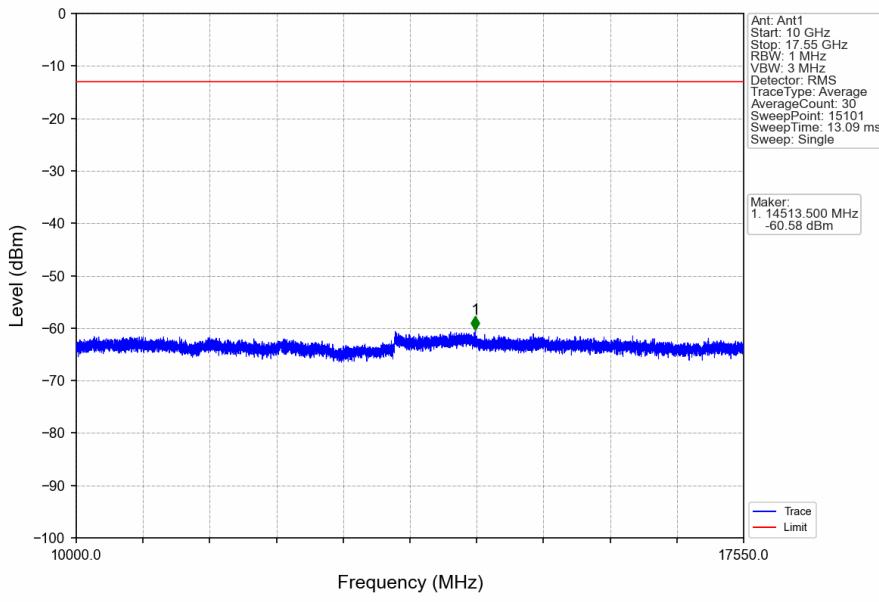


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Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV**Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV**

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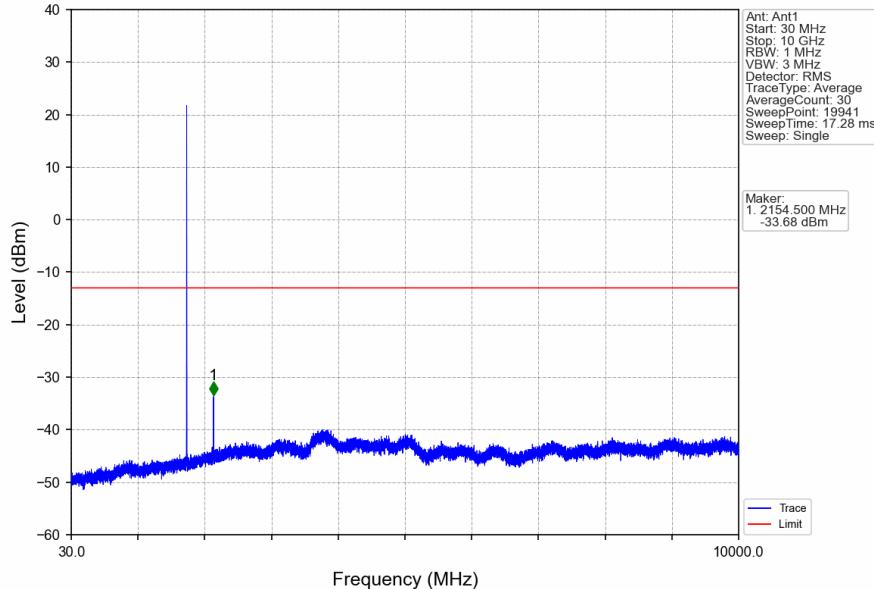
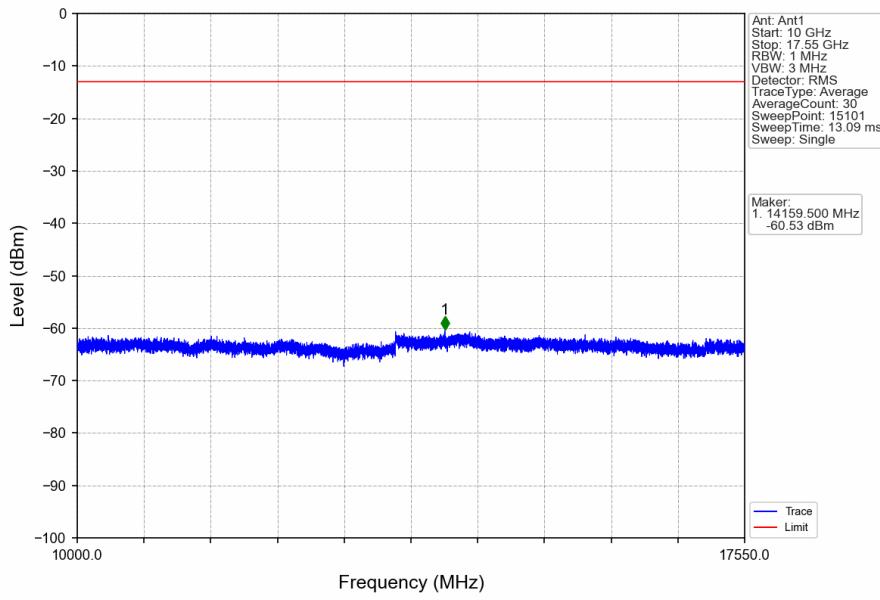
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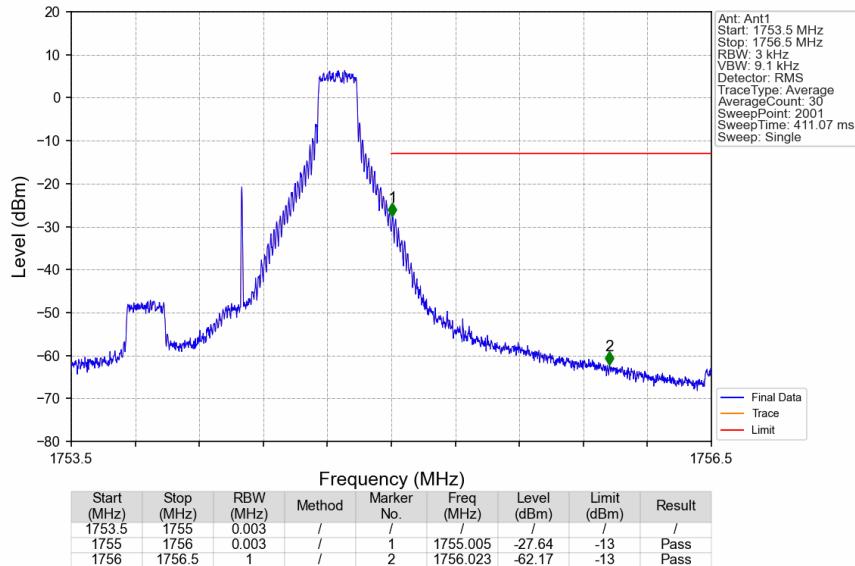
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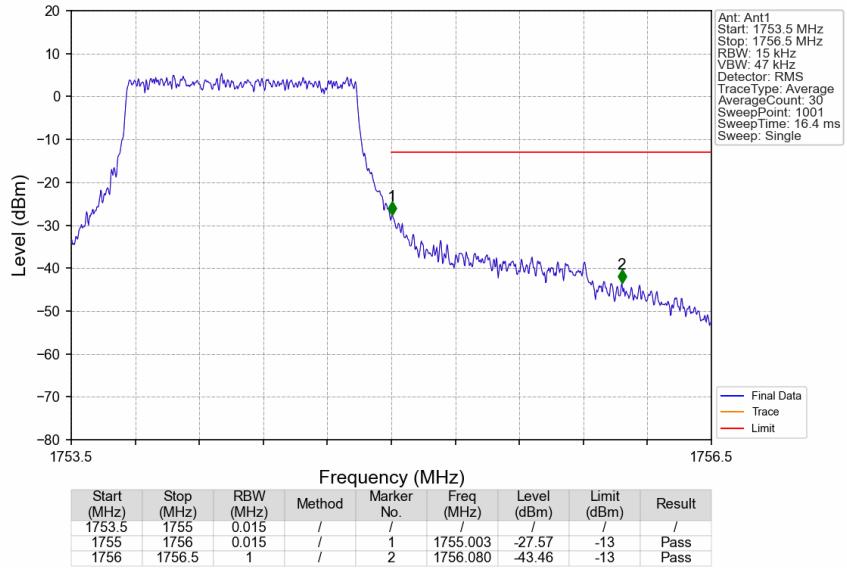
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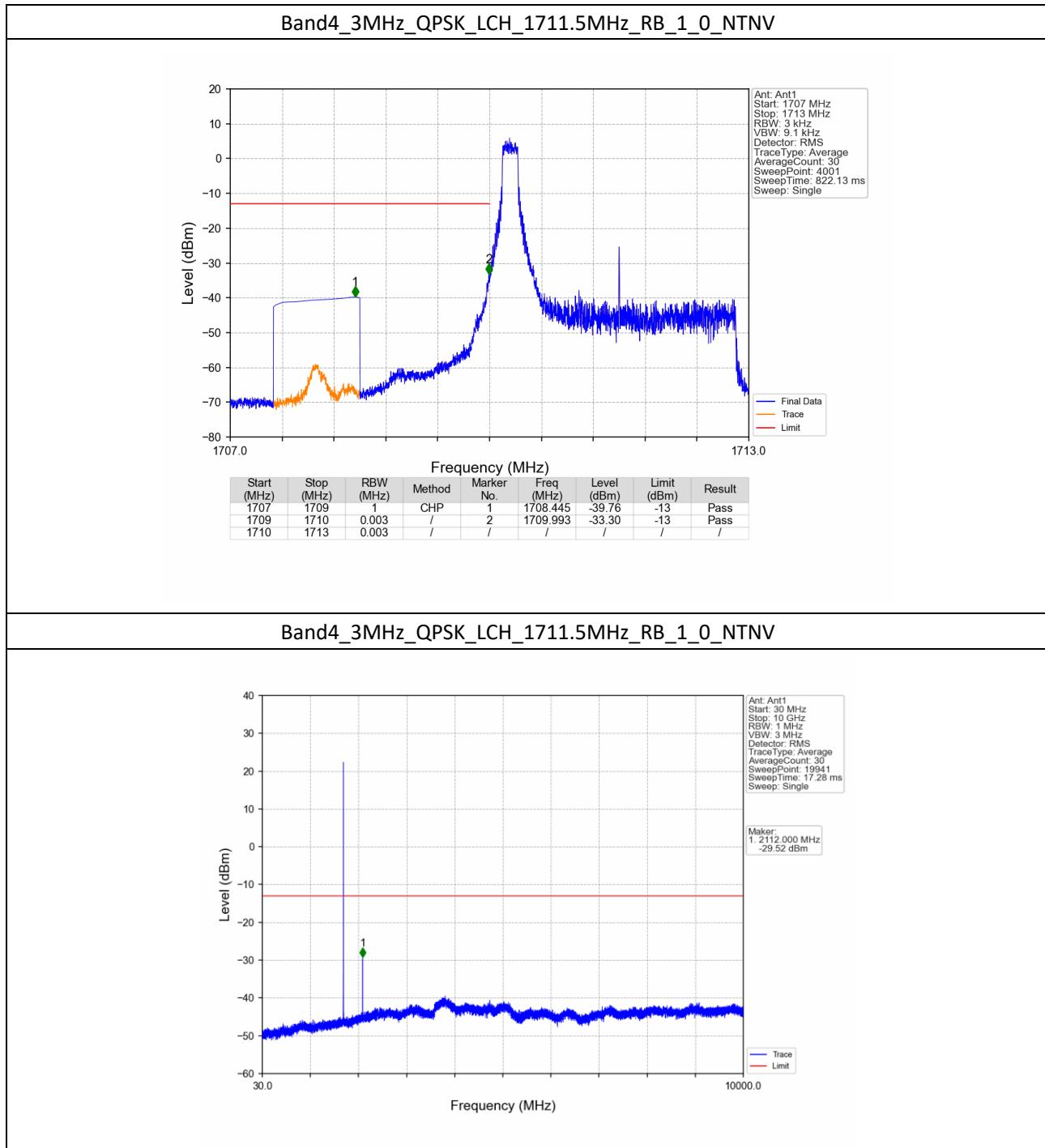
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5.2.2 B4_3MHz



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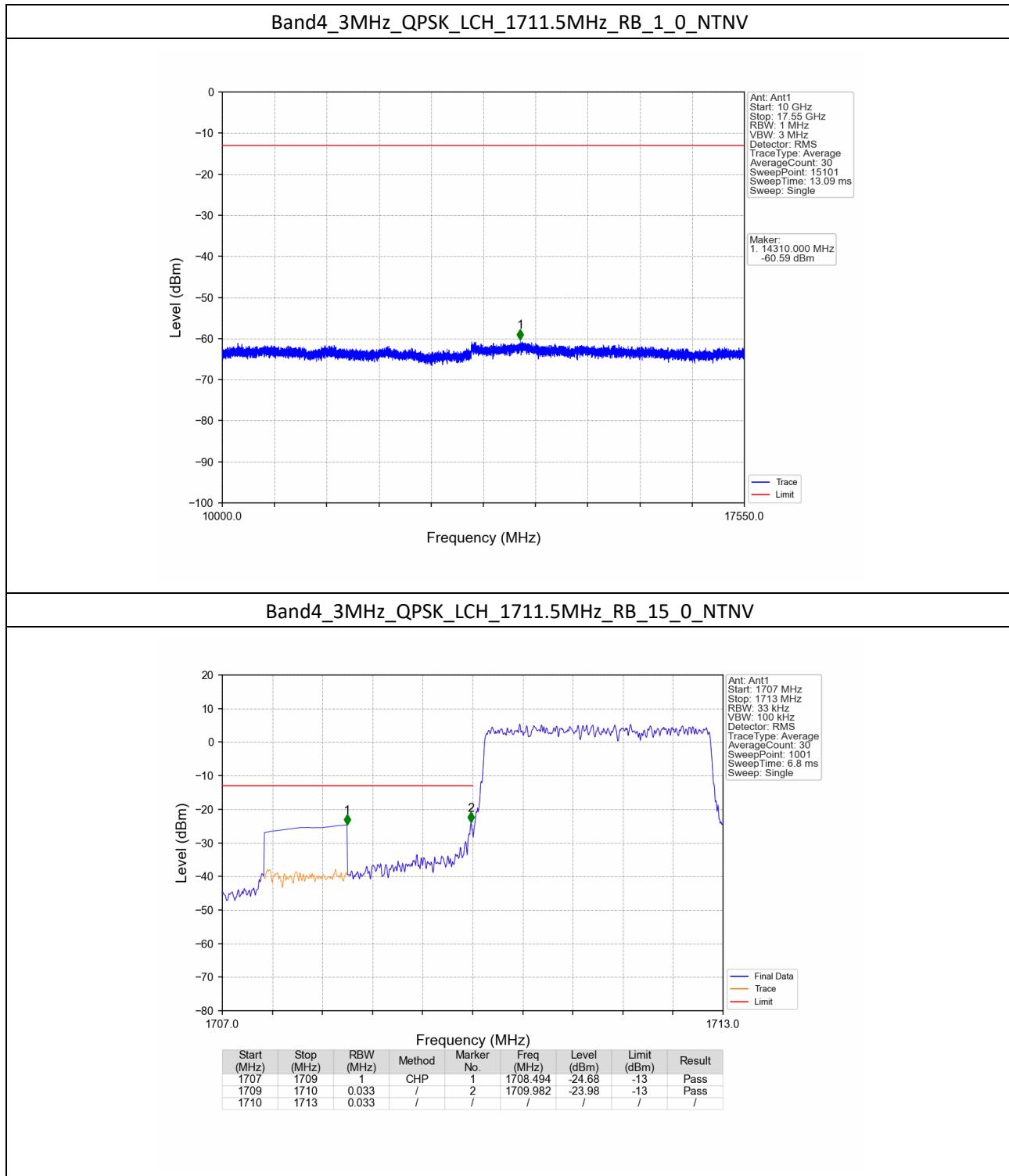
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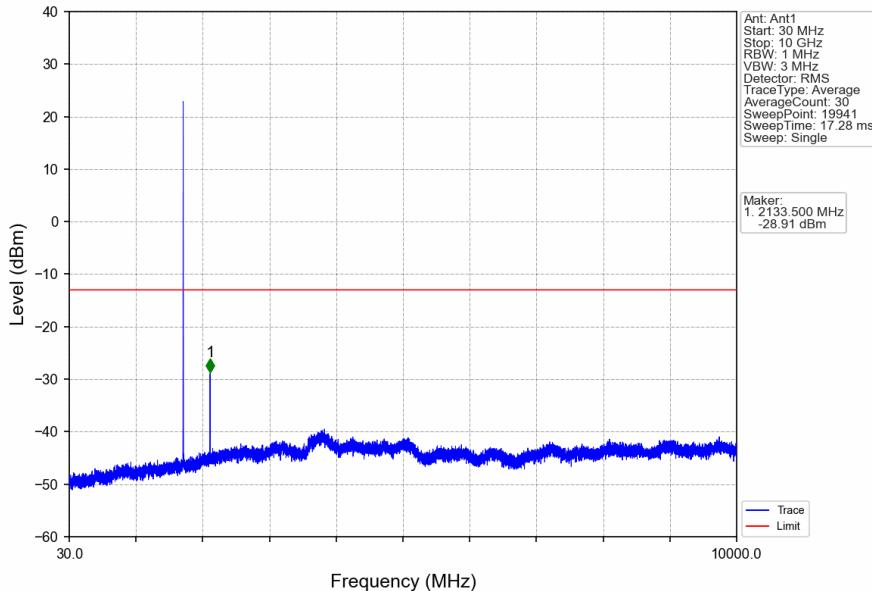
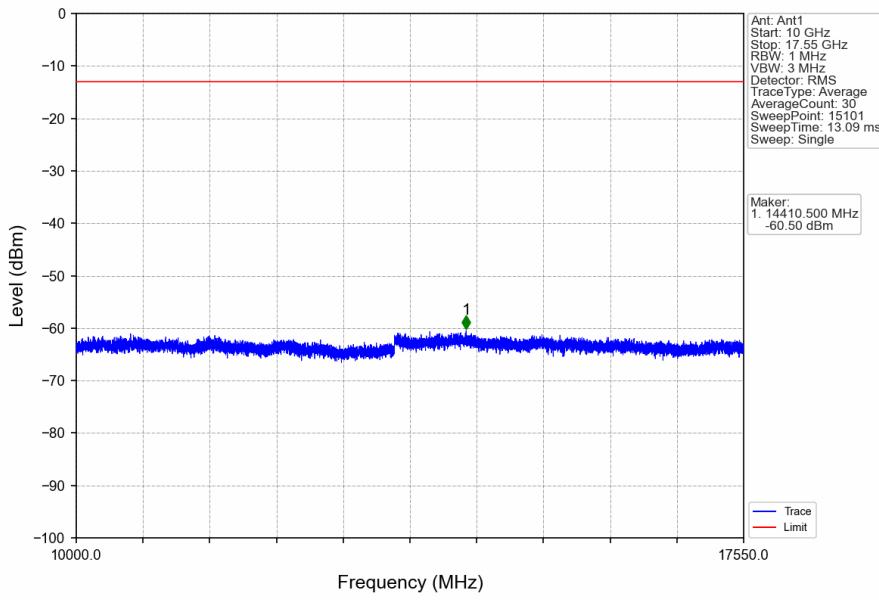


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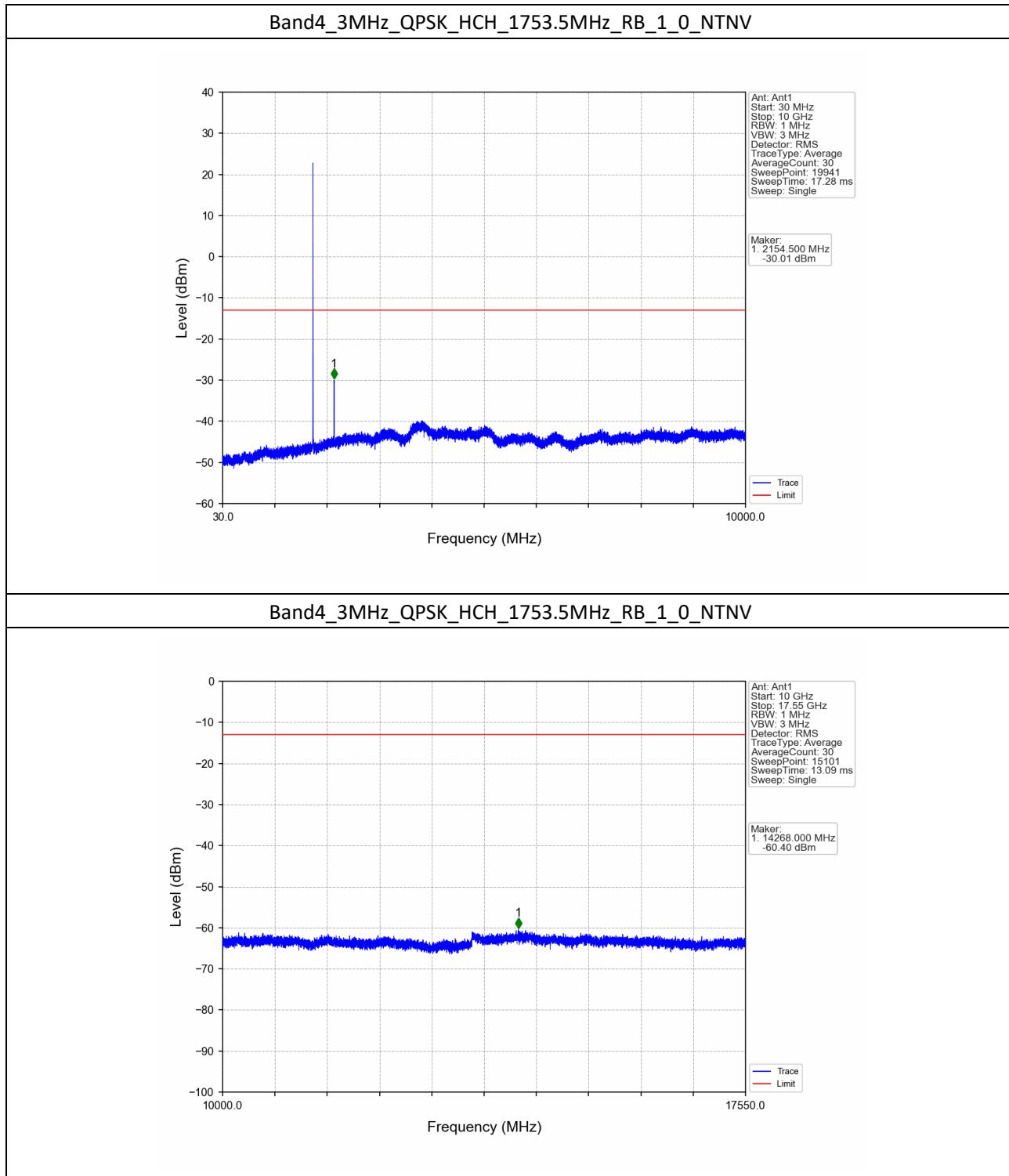
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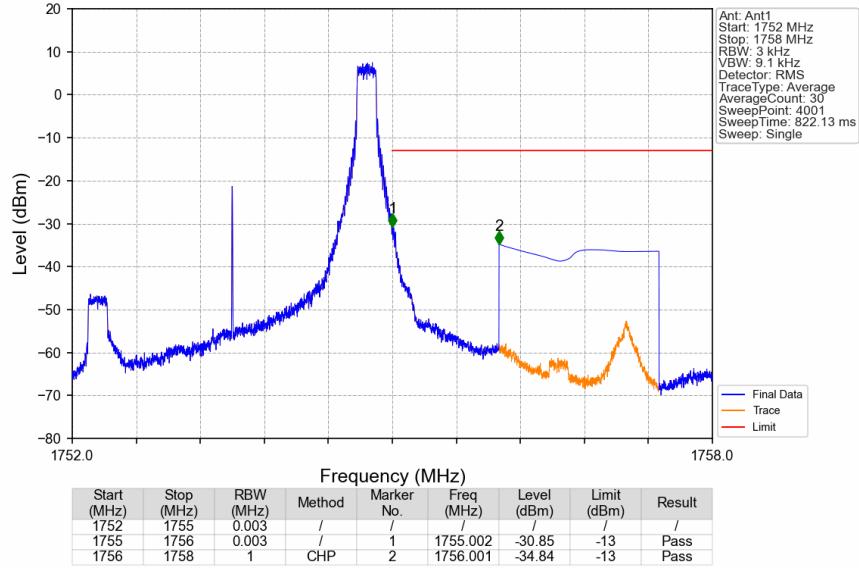
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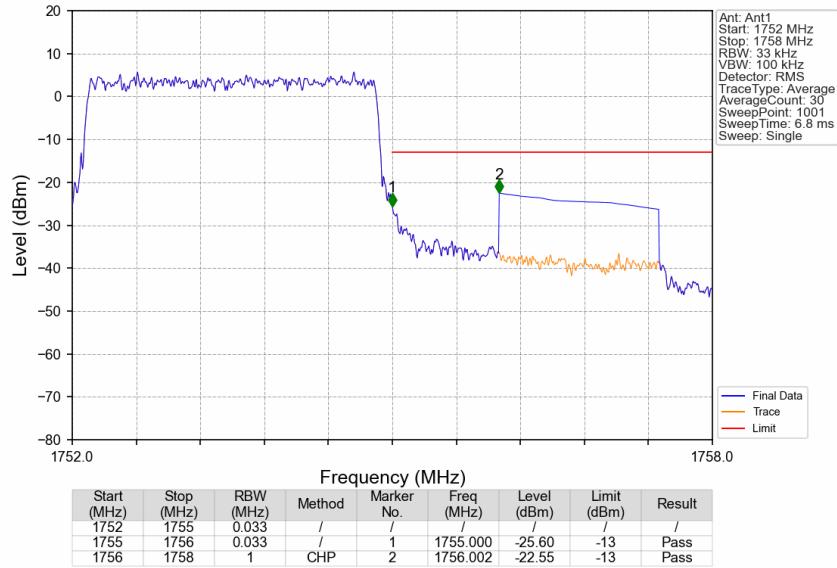
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