

Appendix for KSCR2211002212AT-LTE-Band41+5GNR-N41

1. Out of band rejection

1.1 Band41

1.1.1 Test Result

| Band: 41 / NTNV | | | | | | | |
|-----------------|-----------------------------|---------|-----|----------|----------|----------|---------|
| Signal | Sweep Frequency Range (MHz) | TX Type | ANT | F0 (MHz) | FL (MHz) | FH (MHz) | Verdict |
| CW | 2108 - 3078 | SISO | 1 | 2596.880 | 2492.120 | 2694.850 | Pass |

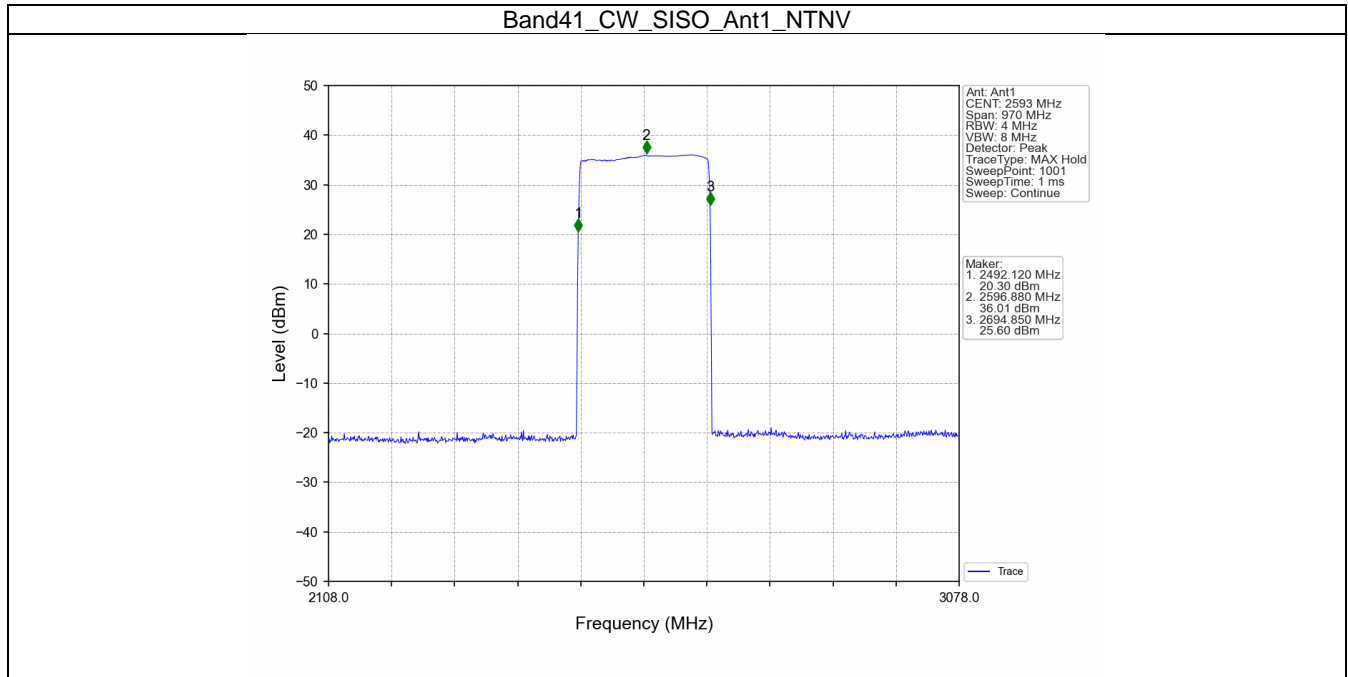


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1.1.2 Test Graph



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2. AGC threshold

2.1 Band41

2.1.1 Test Result

| Band: 41 / NTNV | | | | | |
|-----------------|-----------------|---------|-----|---------------------|---------|
| Signal | Frequency (MHz) | TX Type | ANT | AGC Threshold (dBm) | Verdict |
| AWGN | 2596.88 | SISO | 1 | -0.30 | Pass |
| GMSK | 2596.88 | SISO | 1 | -0.30 | Pass |



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3. Input-versus-output signal comparison

3.1 Band41_OBW

3.1.1 Test Result

For LTE Band 41

| Band: 41 / NTN | | | | | | | |
|----------------|-------------|-----------------|---------|-----|---------------|-------|---------|
| Type | Signal | | TX Type | ANT | 99% OBW (MHz) | | Verdict |
| | Level (dBm) | Frequency (MHz) | | | Output | Input | |
| AWGN | -0.3 | 2596.88 | SISO | 1 | 4.537 | 4.541 | Pass |
| | 2.7 | 2596.88 | SISO | 1 | 4.555 | 4.538 | Pass |
| GMSK | -0.3 | 2596.88 | SISO | 1 | 0.243 | 0.245 | Pass |
| | 2.7 | 2596.88 | SISO | 1 | 0.244 | 0.245 | Pass |

For 5G NR N41

| N41 / NTN | | | | | | | |
|-----------|-------------|-----------------|---------|-----|---------------|--------|---------|
| Type | Signal | | TX Type | ANT | 99% OBW (MHz) | | Verdict |
| | Level (dBm) | Frequency (MHz) | | | Output | Input | |
| AWGN | -0.3 | 2593 | SISO | 1 | 95.853 | 94.971 | Pass |
| | 2.7 | 2593 | SISO | 1 | 95.747 | 94.640 | Pass |

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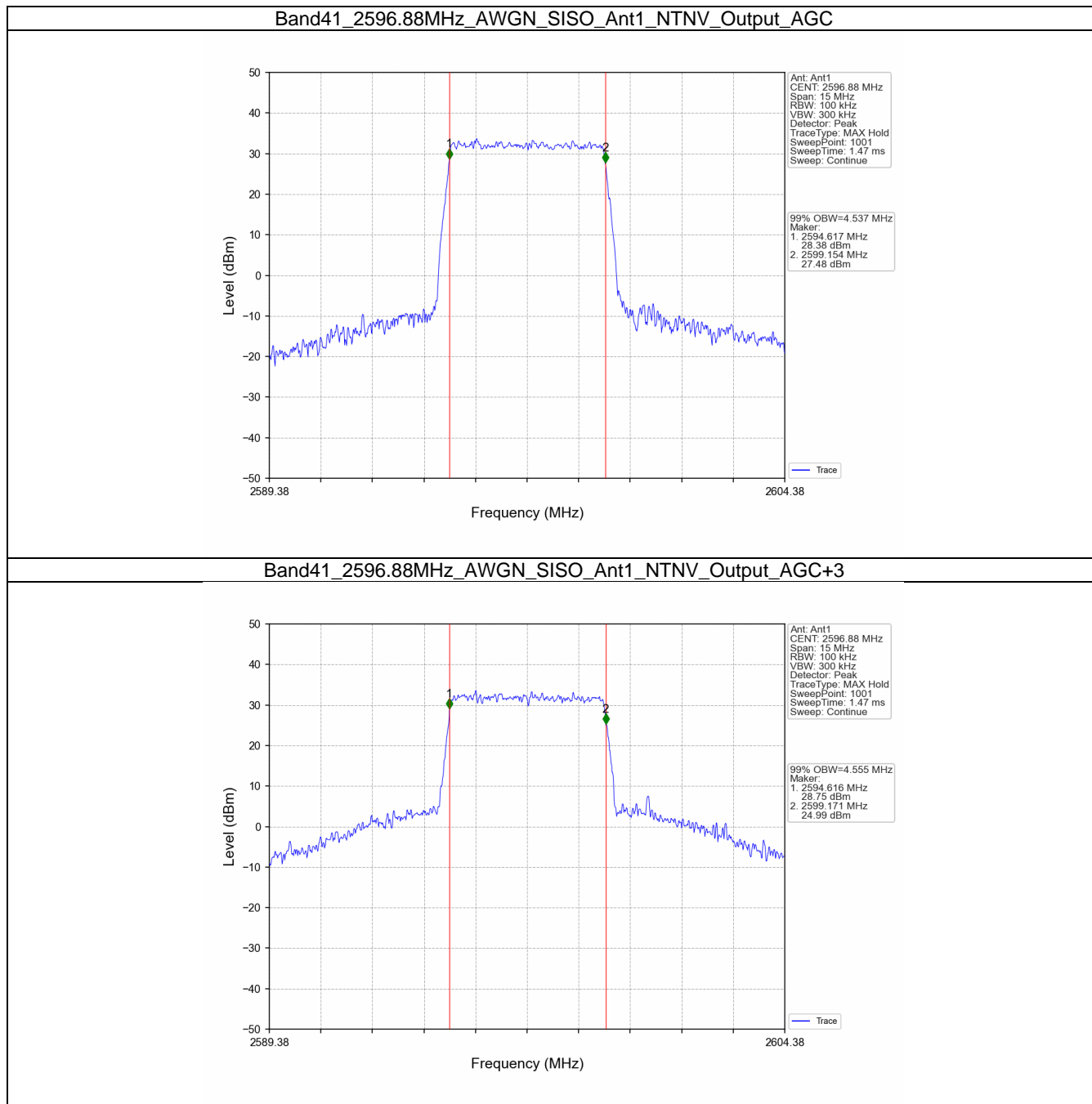
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3.1.2 Test Graph

For LTE Band 41

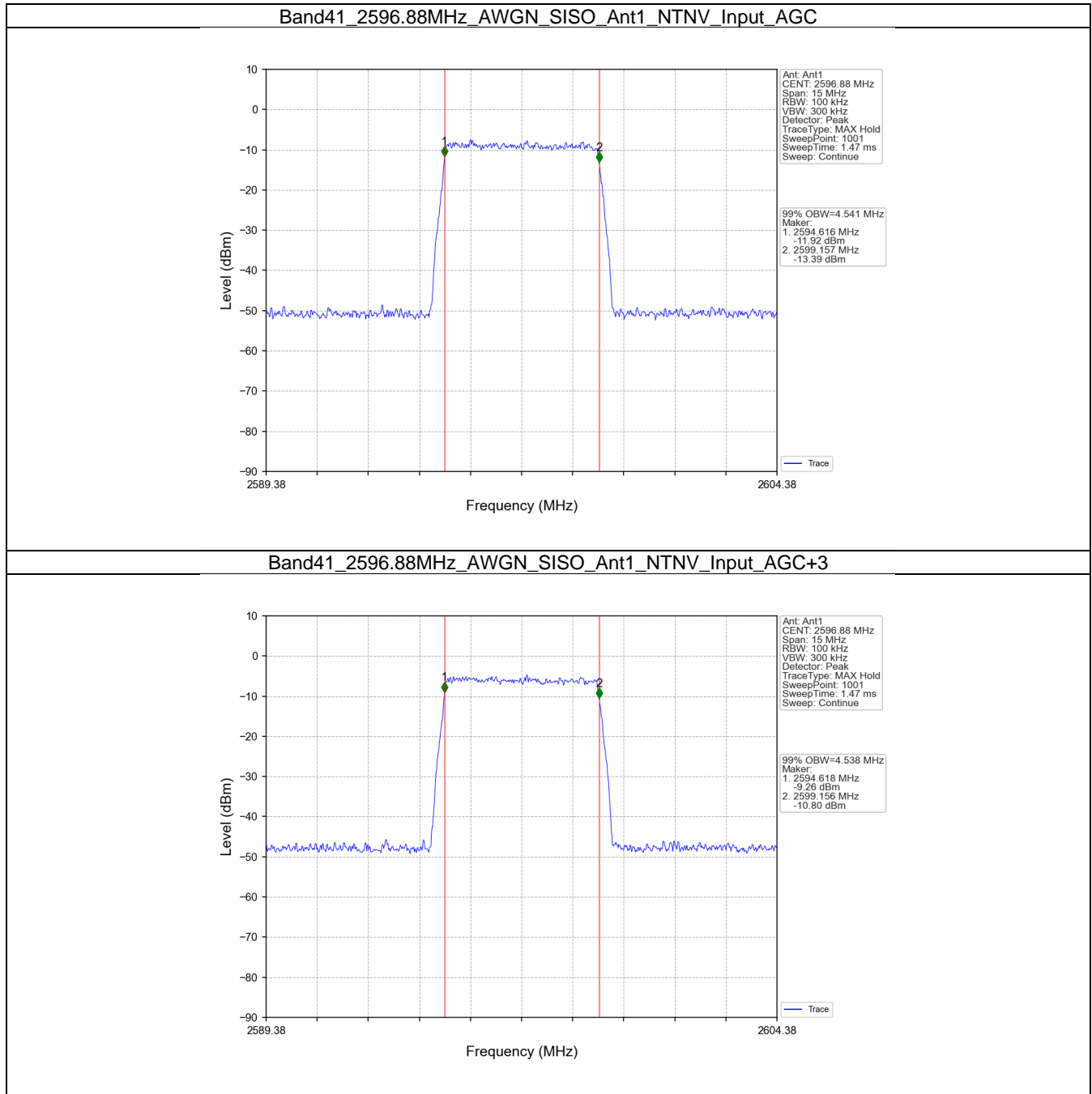


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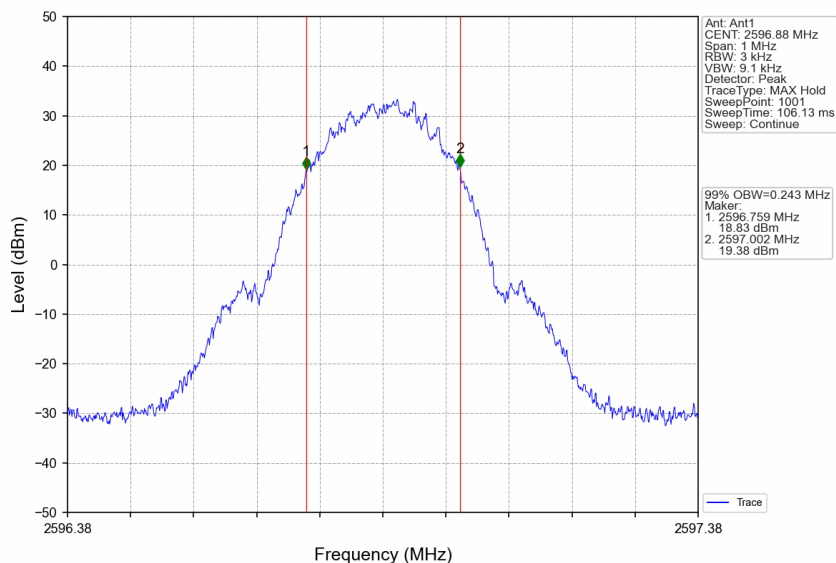
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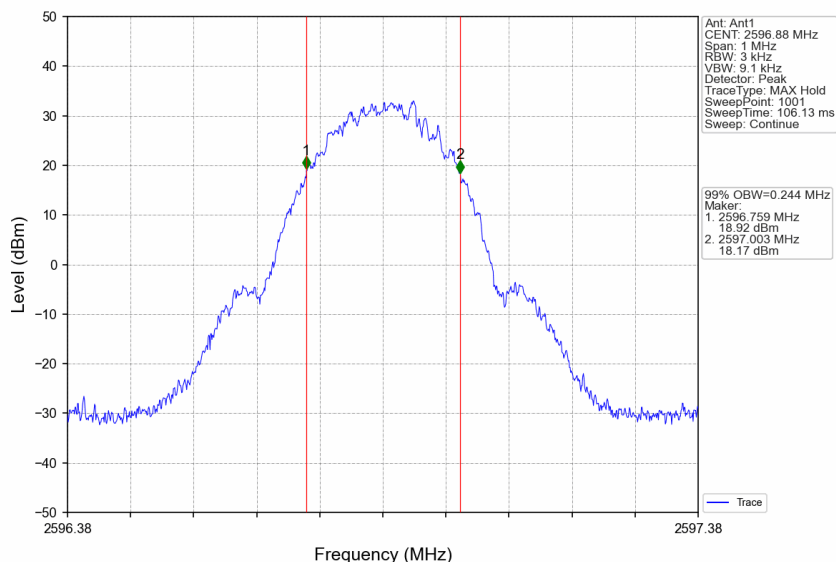
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Band41_2596.88MHz_GMSK_SISO_Ant1_NTNV_Output_AGC



Band41_2596.88MHz_GMSK_SISO_Ant1_NTNV_Output_AGC+3



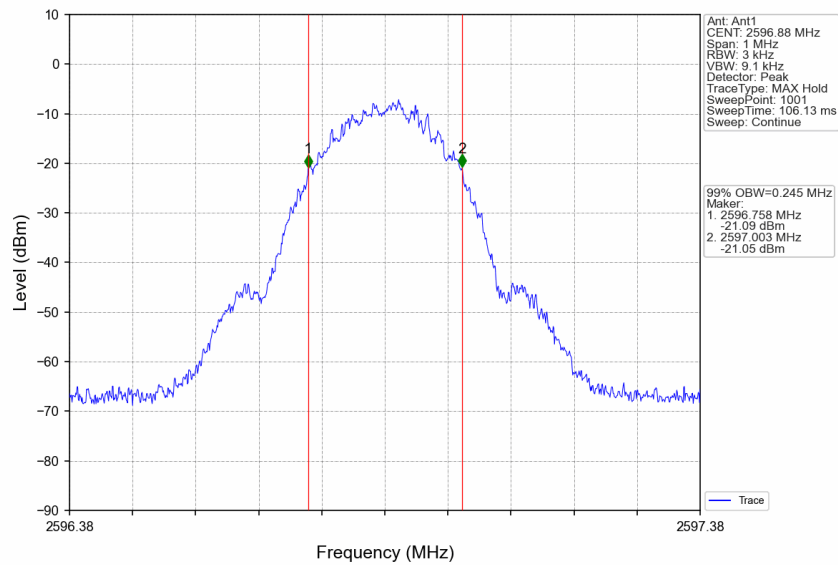
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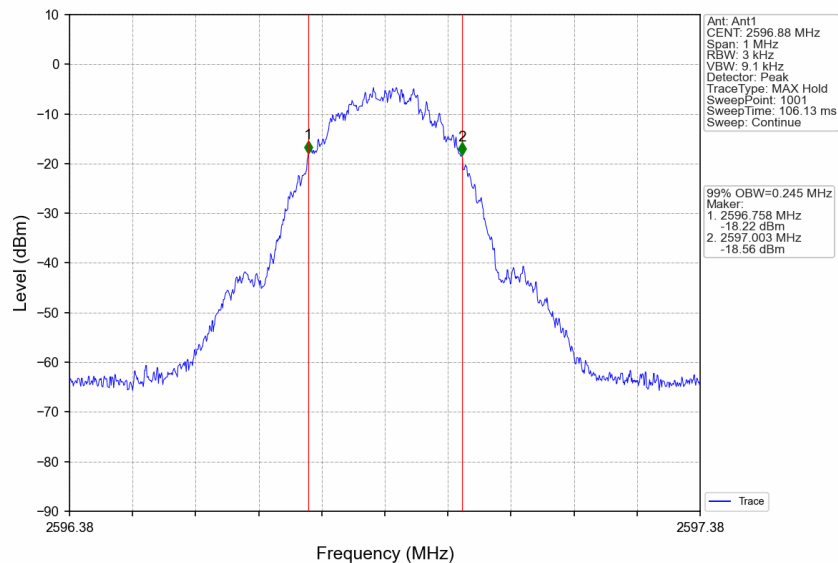
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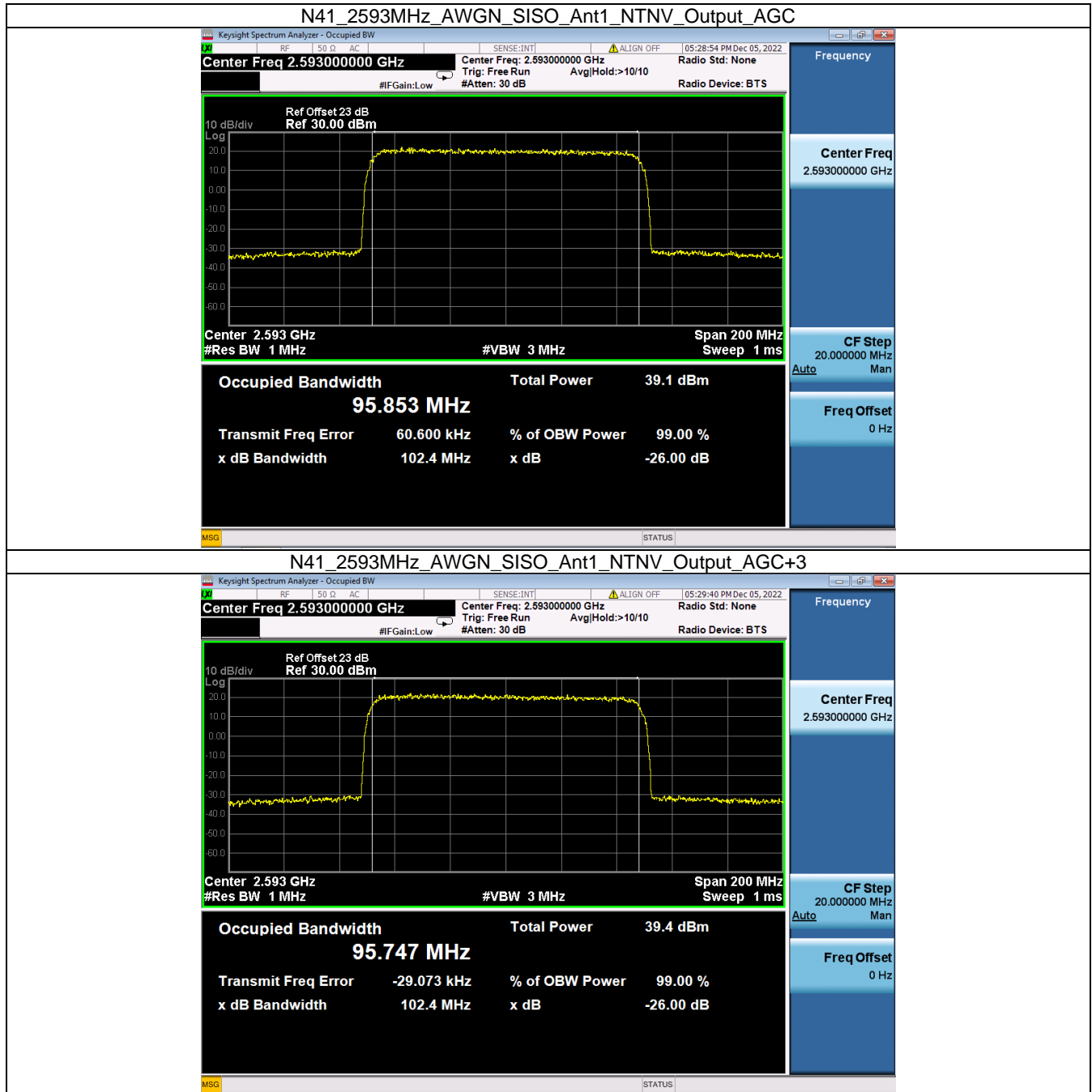
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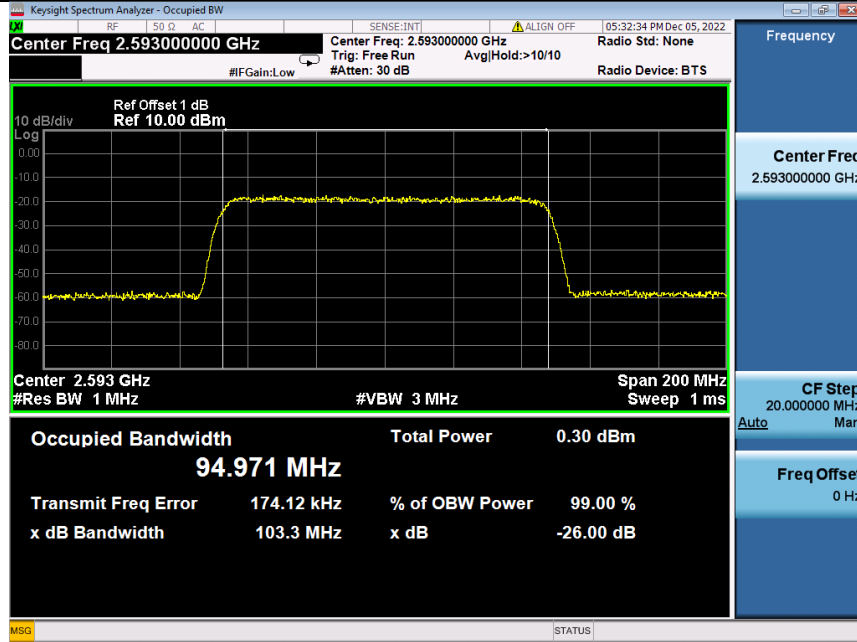
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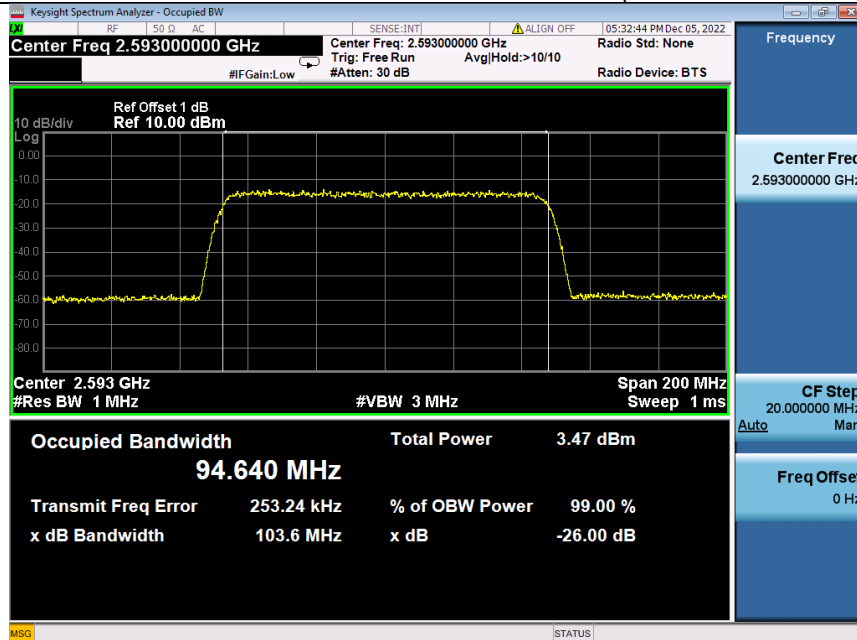
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3.2 Band41_EBW

3.2.1 Test Result

For LTE Band 41

| Band: 41 / NTNV | | | | | | | |
|-----------------|-------------|-----------------|---------|-----|----------------|-------|---------|
| Type | Signal | | TX Type | ANT | 26dB EBW (MHz) | | Verdict |
| | Level (dBm) | Frequency (MHz) | | | Output | Input | |
| AWGN | -0.3 | 2596.88 | SISO | 1 | 5.073 | 5.063 | Pass |
| | 2.7 | 2596.88 | SISO | 1 | 5.082 | 5.060 | Pass |
| GMSK | -0.3 | 2596.88 | SISO | 1 | 0.315 | 0.314 | Pass |
| | 2.7 | 2596.88 | SISO | 1 | 0.313 | 0.315 | Pass |

For 5GNR N41

| N41 / NTNV | | | | | | | |
|------------|-------------|-----------------|---------|-----|----------------|-------|---------|
| Type | Signal | | TX Type | ANT | 26dB EBW (MHz) | | Verdict |
| | Level (dBm) | Frequency (MHz) | | | Output | Input | |
| AWGN | -0.3 | 2596.88 | SISO | 1 | 102.4 | 103.3 | Pass |
| | 2.7 | 2596.88 | SISO | 1 | 102.4 | 103.6 | Pass |



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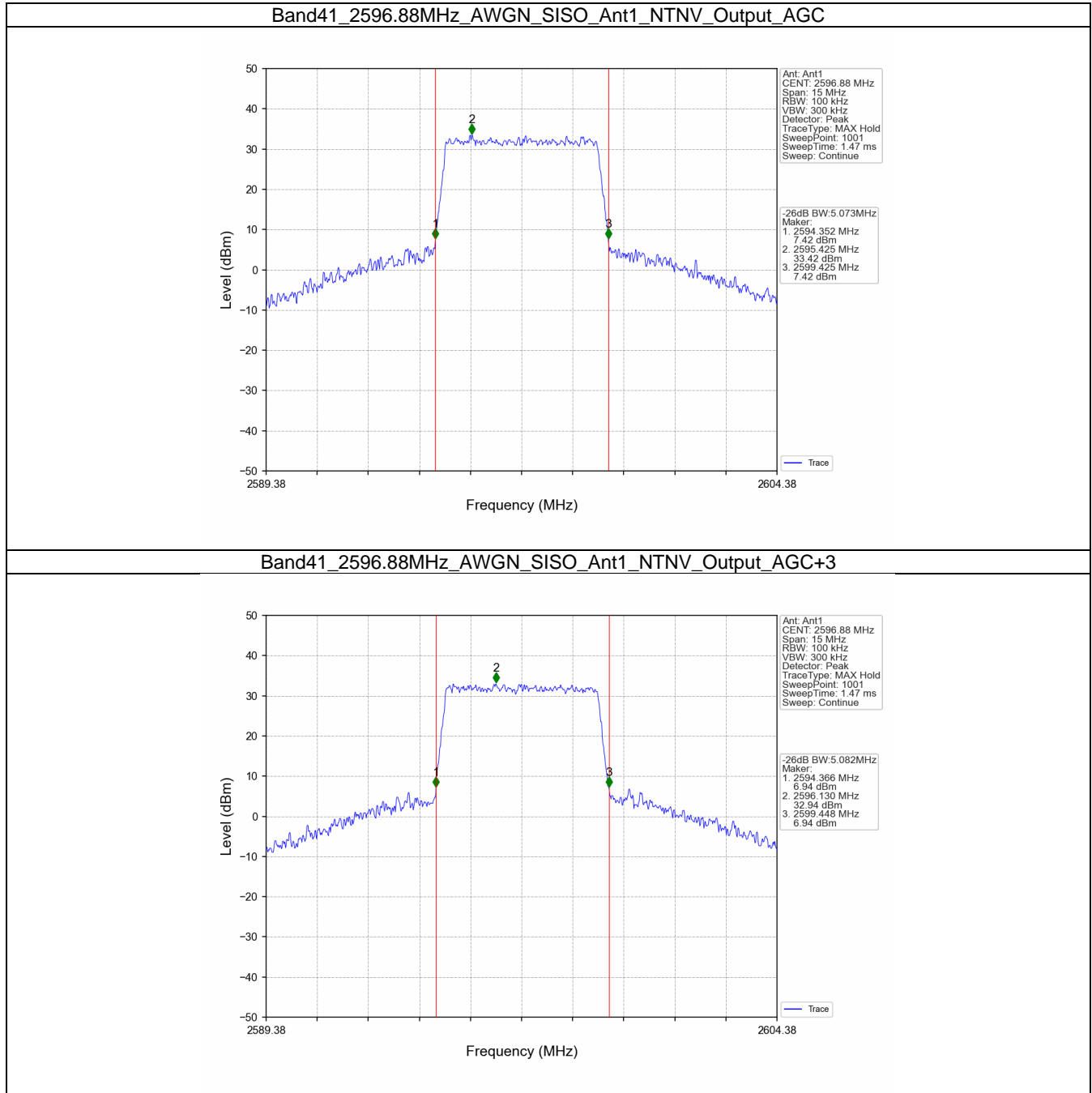
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3.2.2 Test Graph

For LTE Band 41

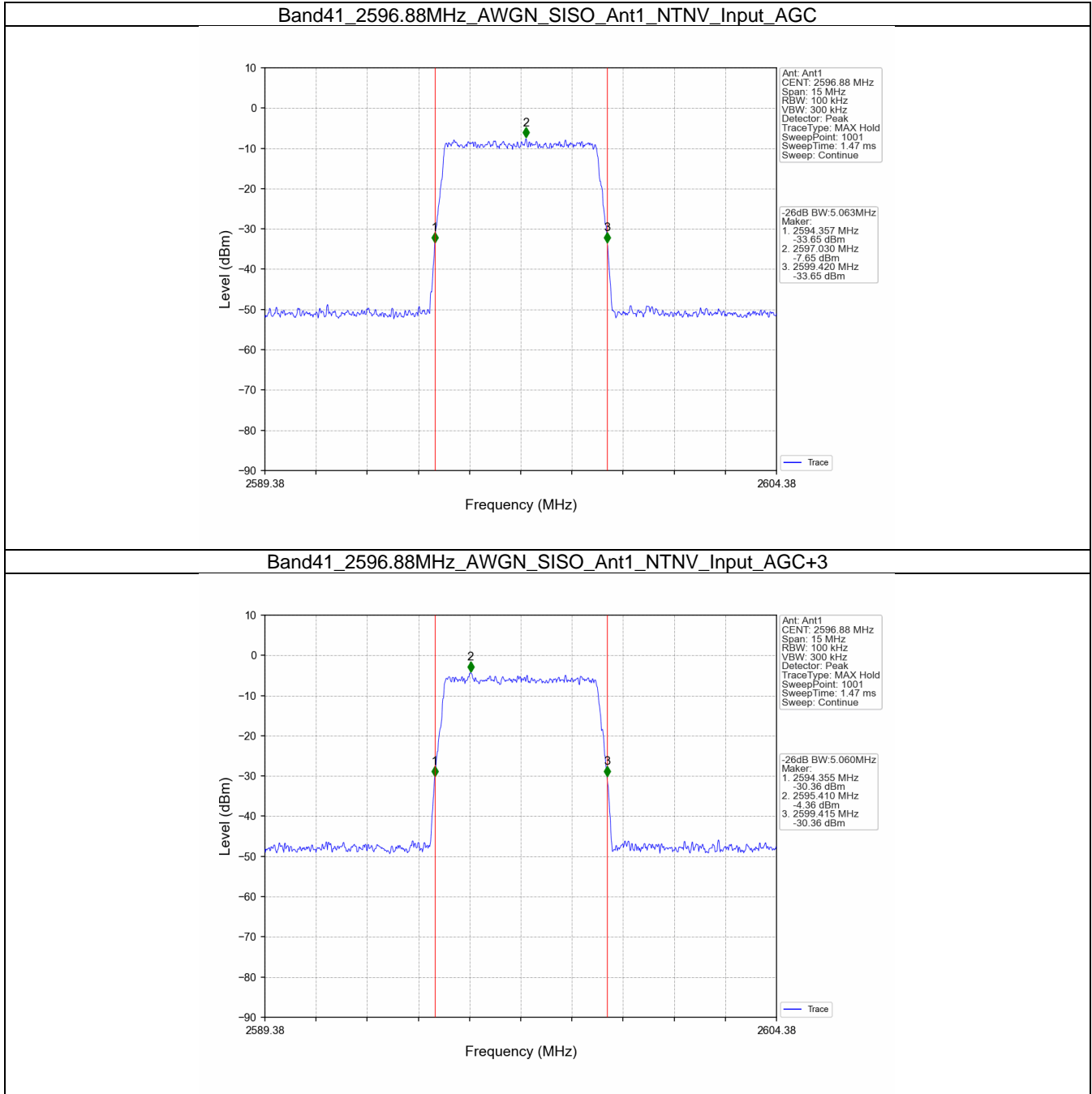


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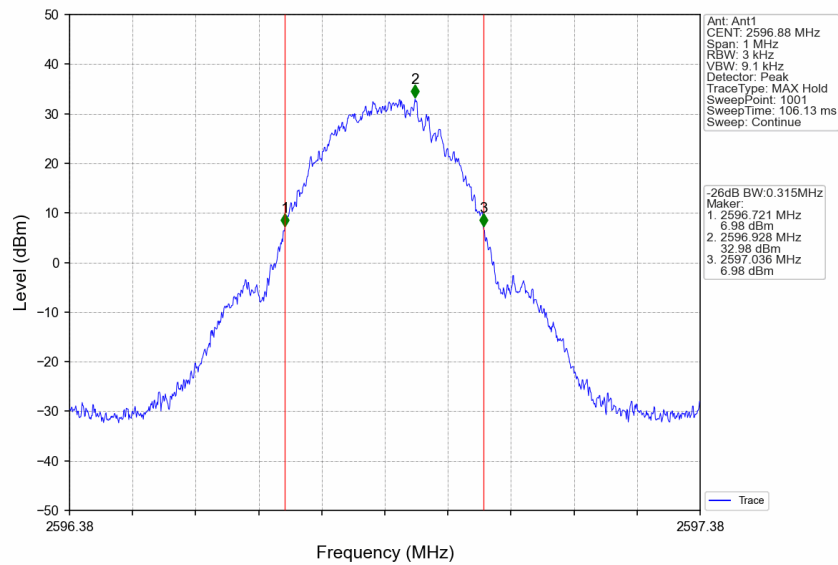
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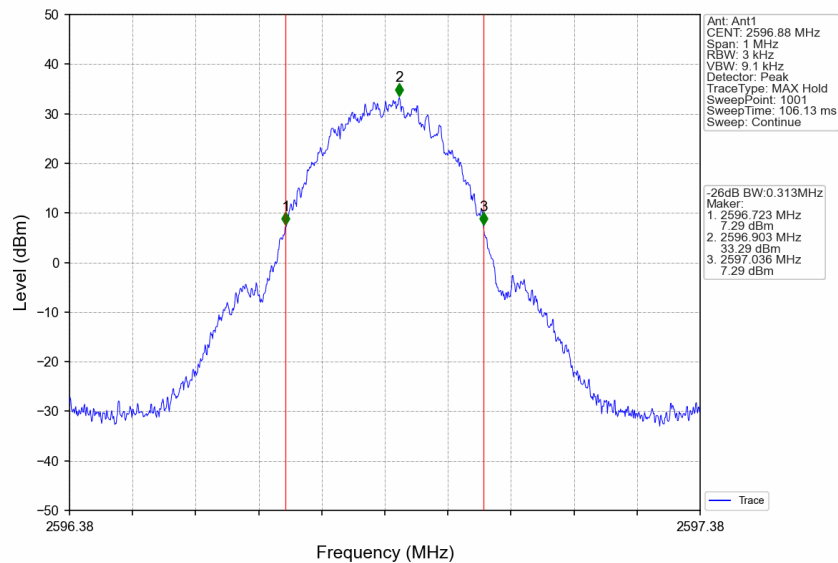
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Band41_2596.88MHz_GMSK_SISO_Ant1_NTNV_Output_AGC



Band41_2596.88MHz_GMSK_SISO_Ant1_NTNV_Output_AGC+3



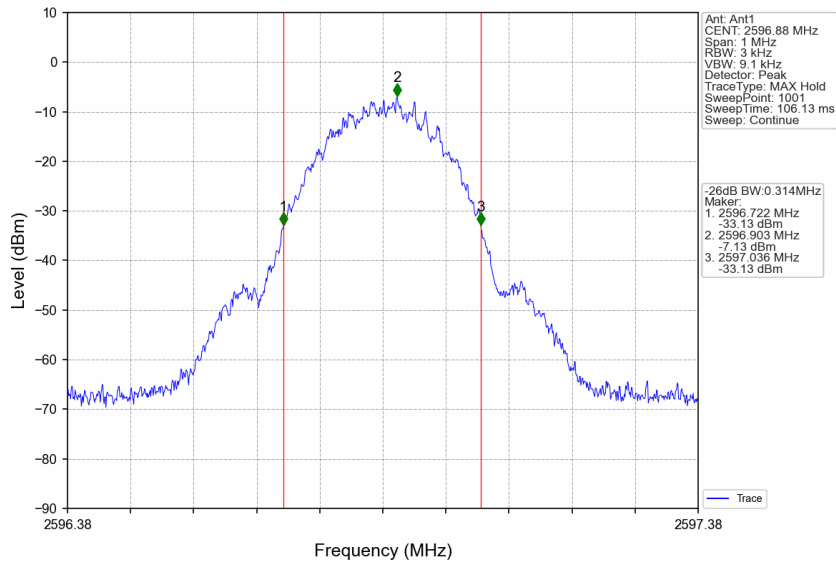
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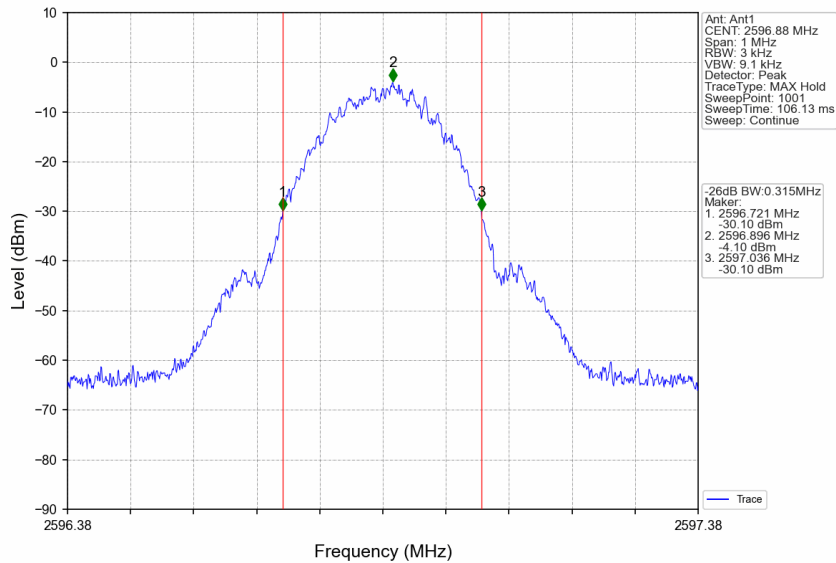
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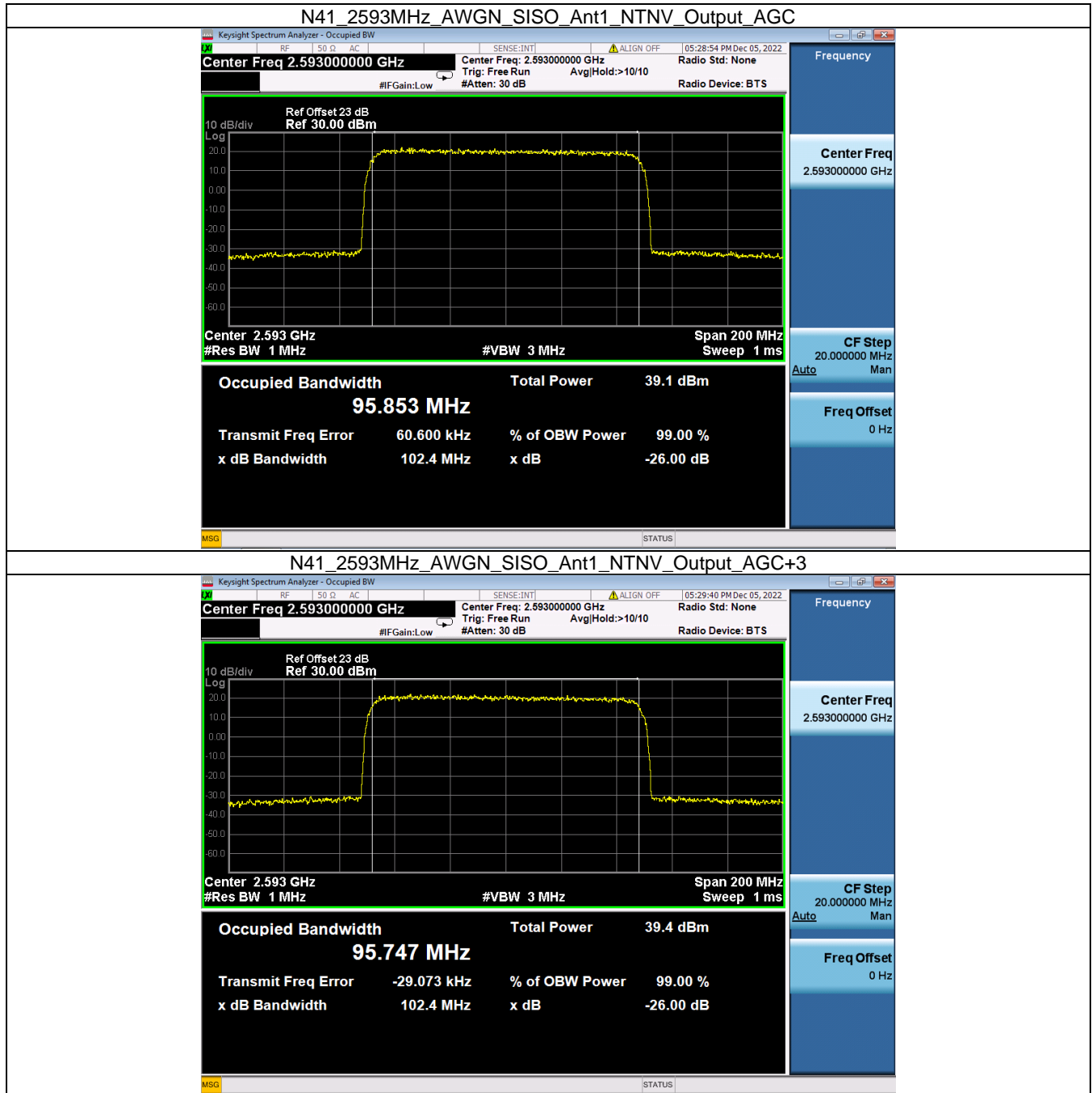
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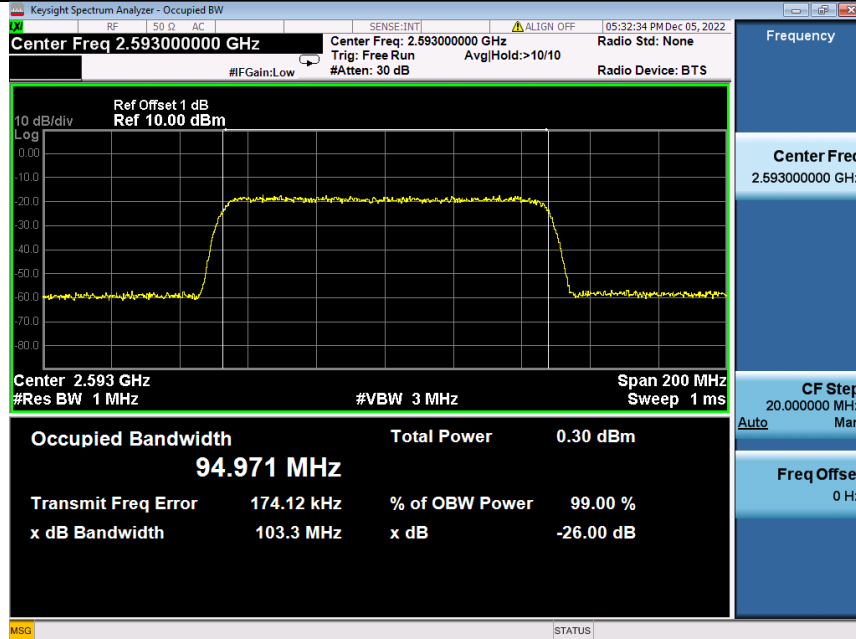
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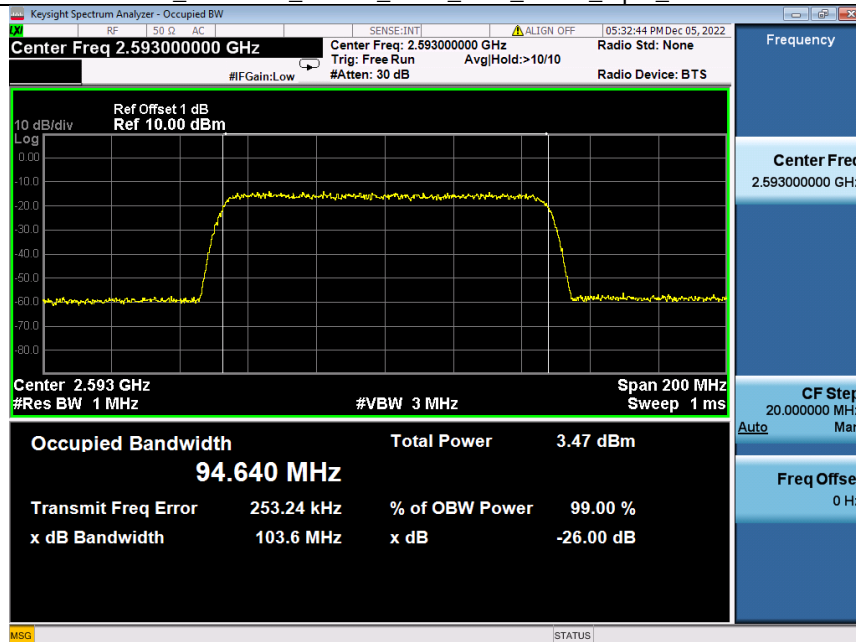
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N41_2593MHz_AWGN_SISO_Ant1_NTNV_Input_AGC



N41_2593MHz_AWGN_SISO_Ant1_NTNV_Input_AGC+3



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4. Input/output power and amplifier/booster gain

4.1 Band41_EIRP

4.1.1 Test Result

For LTE Band 41

| Band: 41 / NTNV | | | | | | | | | | |
|-----------------|-------------|-----------------|---------|-----|-----------------------|-------|------------|---------|-------------------|---------|
| Signal | | | TX Type | ANT | Conducted Power (dBm) | | EIRP (dBm) | | Booster Gain (dB) | Verdict |
| Type | Level (dBm) | Frequency (MHz) | | | Output | Input | Result | Limit | | |
| AWGN | -0.3 | 2596.88 | SISO | 1 | 39.44 | -0.32 | 51.44 | <=92.27 | 39.76 | Pass |
| | 2.7 | 2596.88 | SISO | 1 | 39.56 | 2.67 | 51.56 | <=92.27 | / | Pass |
| GMSK | -0.3 | 2596.88 | SISO | 1 | 39.36 | -0.13 | 51.36 | <=80.2 | 39.49 | Pass |
| | 2.7 | 2596.88 | SISO | 1 | 39.39 | 2.81 | 51.39 | <=80.2 | / | Pass |

For 5GNR N41

| N41 / NTNV | | | | | | | | | | |
|------------|-------------|-----------------|---------|-----|-----------------------|-------|------------|---------|-------------------|---------|
| Signal | | | TX Type | ANT | Conducted Power (dBm) | | EIRP (dBm) | | Booster Gain (dB) | Verdict |
| Type | Level (dBm) | Frequency (MHz) | | | Output | Input | Result | Limit | | |
| AWGN | -0.3 | 2593 | SISO | 1 | 39.27 | -0.32 | 51.27 | <=92.27 | 39.59 | Pass |
| | 2.7 | 2593 | SISO | 1 | 39.55 | 2.67 | 51.55 | <=92.27 | / | Pass |

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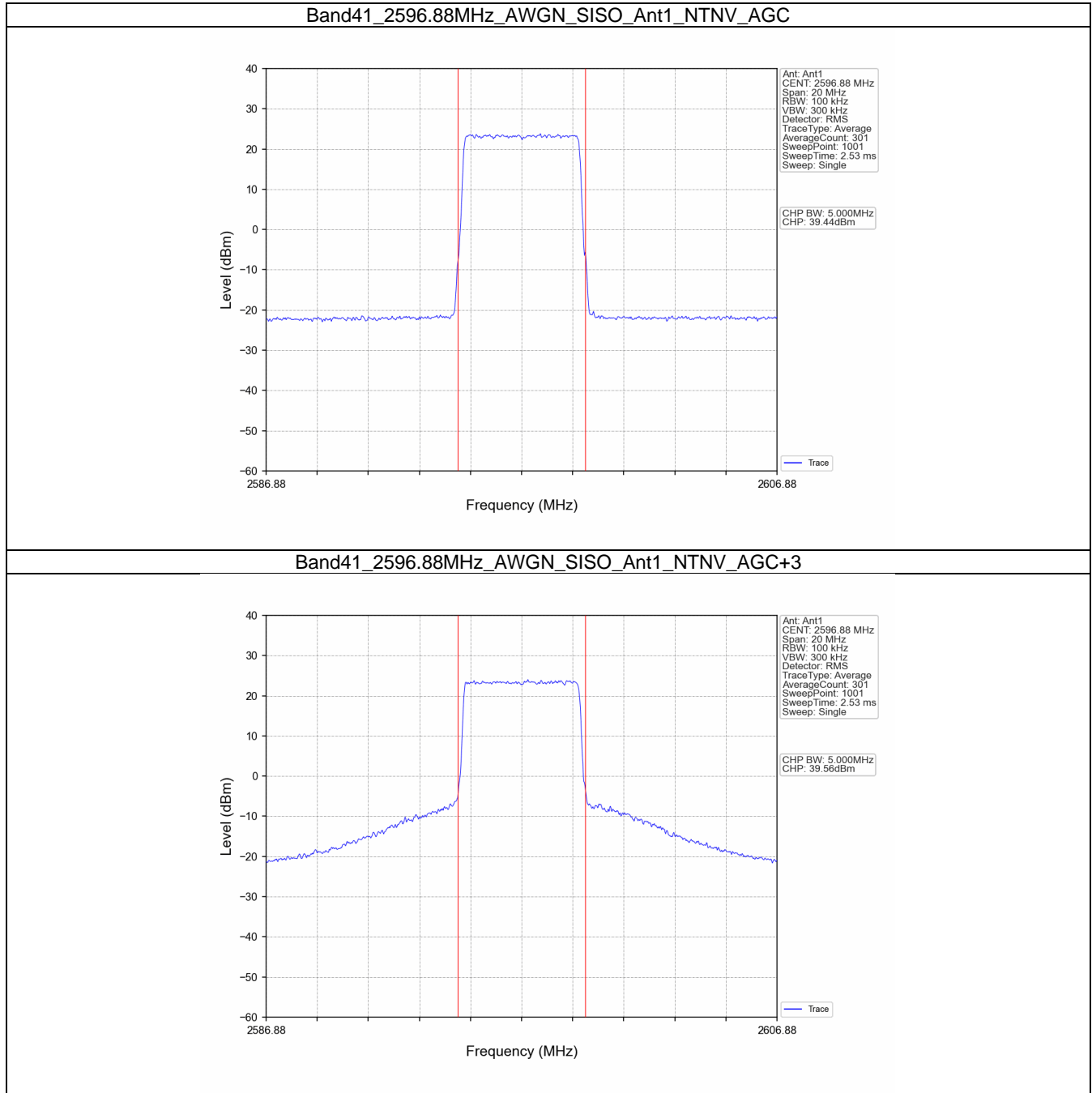
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4.1.2 Test Graph

For LTE Band 41

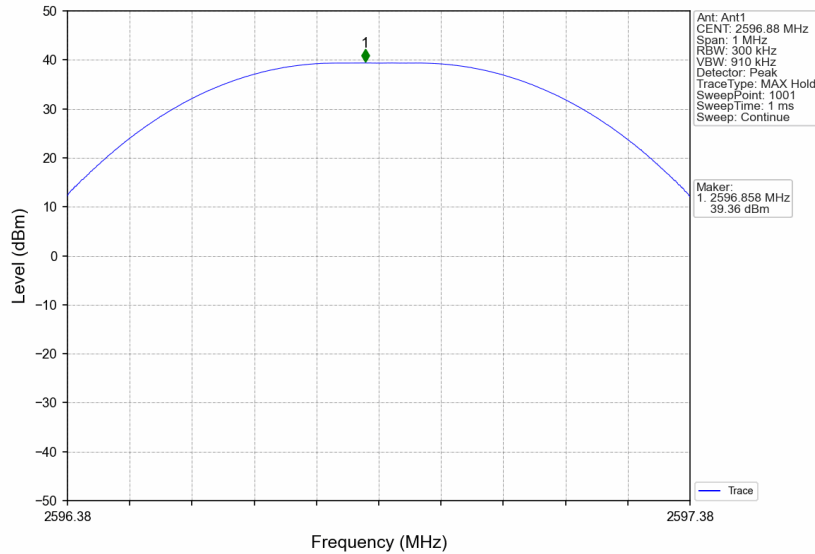


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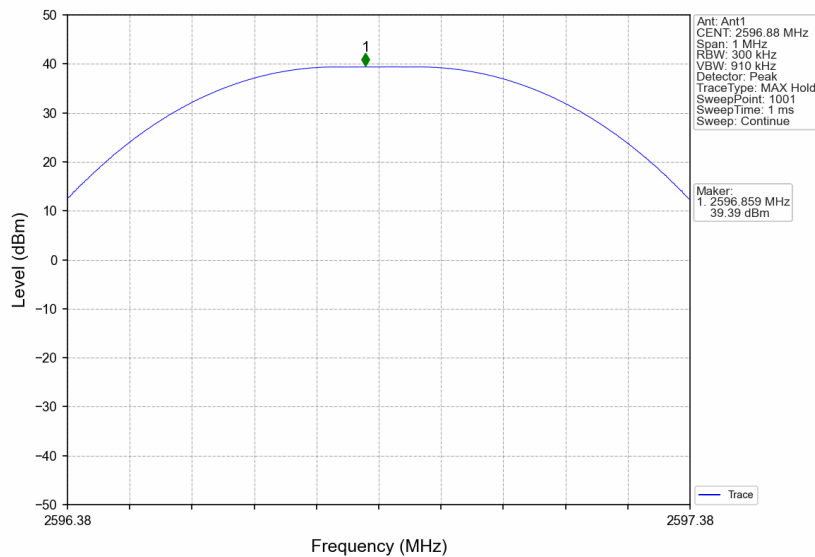
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Band41_2596.88MHz_GMSK_SISO_Ant1_NTNV_AGC



Band41_2596.88MHz_GMSK_SISO_Ant1_NTNV_AGC+3



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4.2 Band41_PAPR

4.2.1 Test Result

For LTE Band 41

| Band: 41 / NTV | | | | | | | |
|----------------|-------------|-----------------|---------|-----|-----------|-------|---------|
| Type | Signal | | TX Type | ANT | PAPR (dB) | | Verdict |
| | Level (dBm) | Frequency (MHz) | | | Result | Limit | |
| AWGN | -0.3 | 2596.88 | SISO | 1 | 8.30 | <=13 | Pass |
| | 2.7 | 2596.88 | SISO | 1 | 8.30 | <=13 | Pass |
| GMSK | -0.3 | 2596.88 | SISO | 1 | 0.47 | <=13 | Pass |
| | 2.7 | 2596.88 | SISO | 1 | 0.35 | <=13 | Pass |

For 5GNR N41

| N41 / NTV | | | | | | | |
|-----------|-------------|-----------------|---------|-----|-----------|-------|---------|
| Type | Signal | | TX Type | ANT | PAPR (dB) | | Verdict |
| | Level (dBm) | Frequency (MHz) | | | Result | Limit | |
| AWGN | -0.3 | 2593 | SISO | 1 | 8.42 | <=13 | Pass |
| | 2.7 | 2593 | SISO | 1 | 8.42 | <=13 | Pass |

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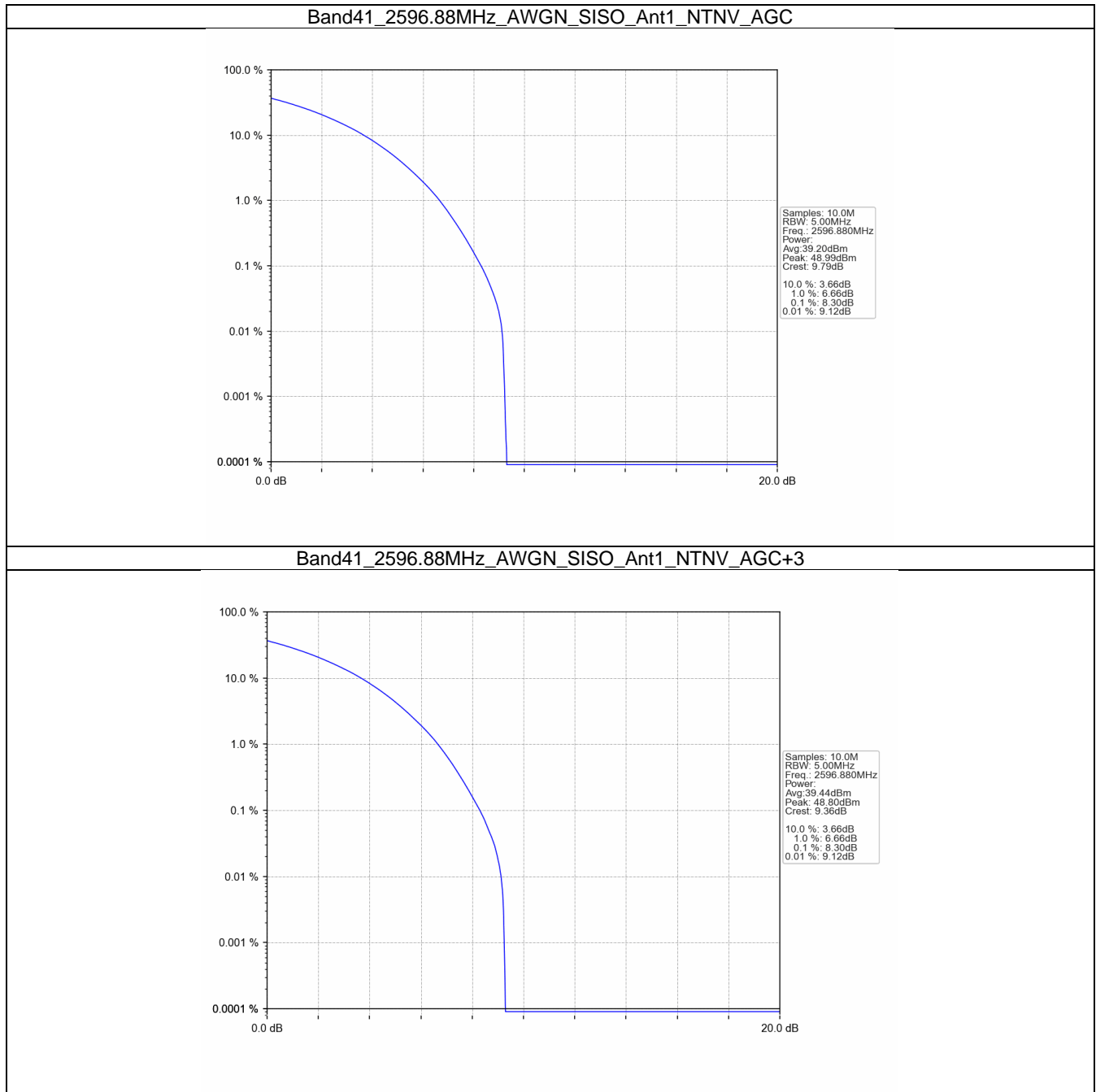
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4.2.2 Test Graph

For LTE Band 41



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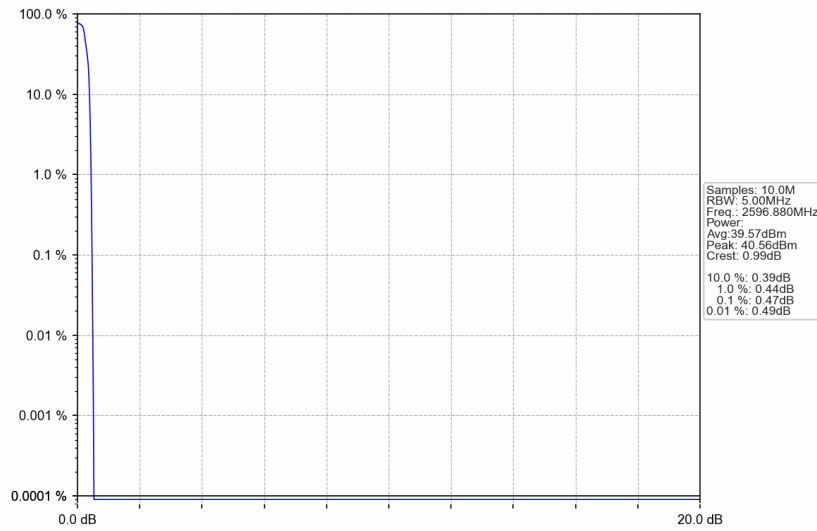
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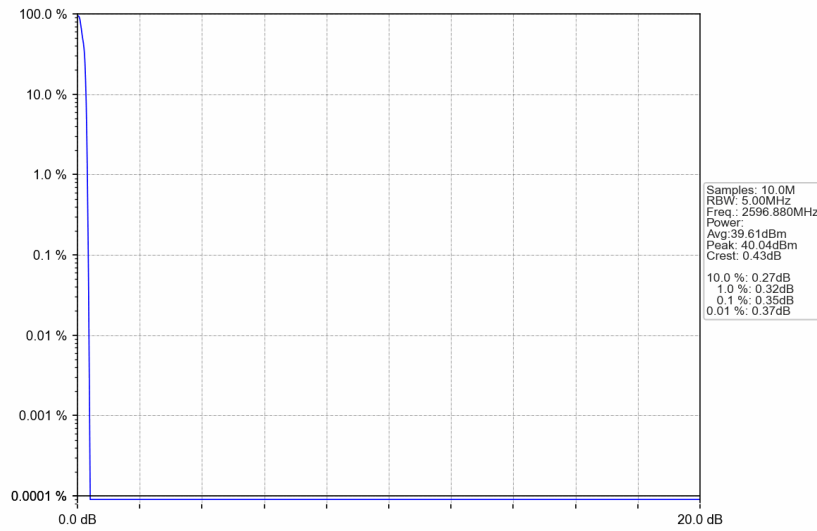
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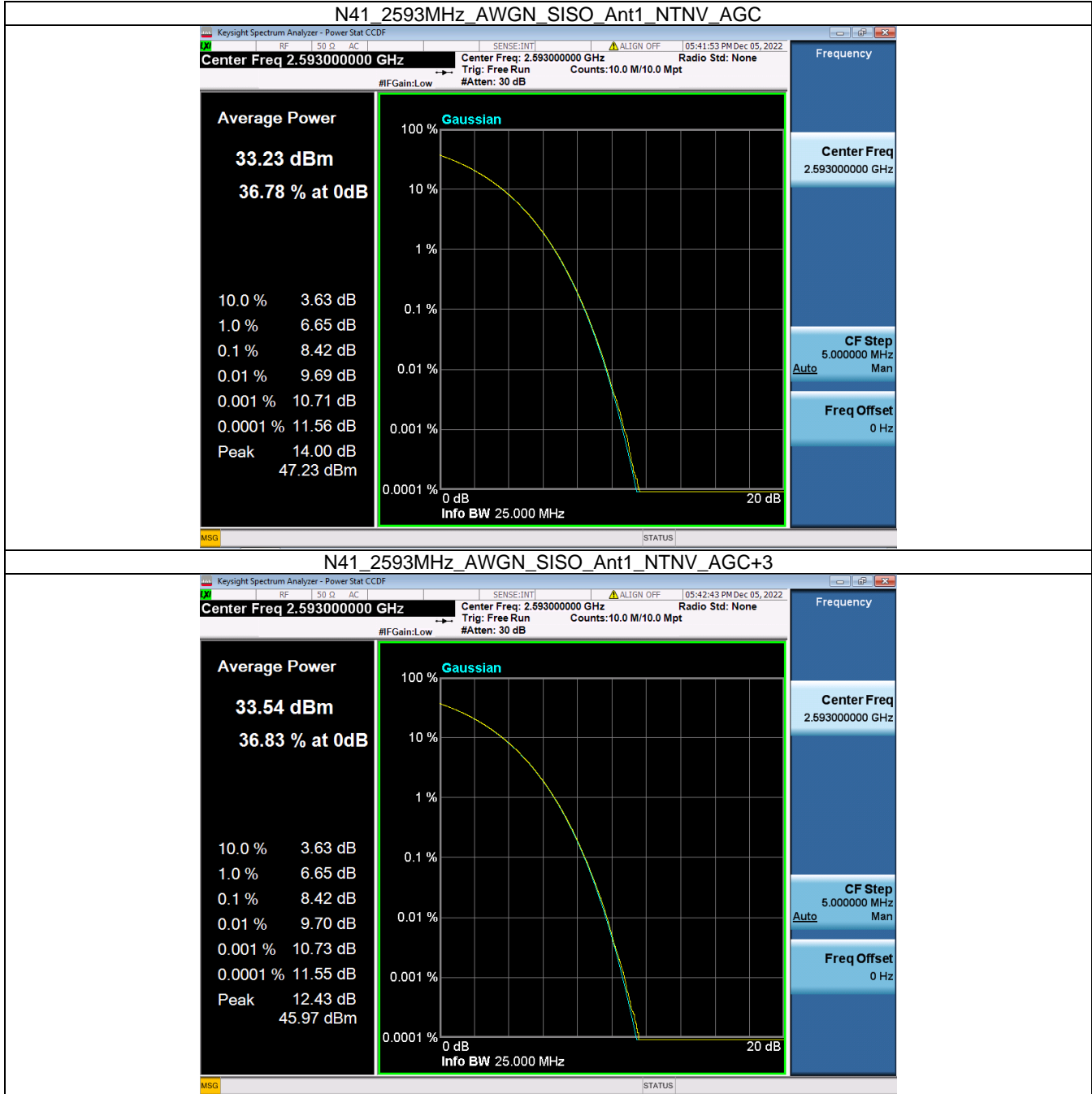
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5. Out-of-band/out-of-block (including intermodulation) emissions

5.1 Band41

5.1.1 Test Result

For LTE Band 41

| Band: 41 / NTNV | | | | | | | | | |
|-----------------|------|-------------|-----------------|---------|---------|-----|-----------|---------------------|---------|
| Signal | | | | Channel | TX Type | ANT | OOB (dBm) | | Verdict |
| Input | Type | Level (dBm) | Frequency (MHz) | | | | Result | Limit | |
| Two | AWGN | -0.3 | 2498.5 | LCH | SISO | 1 | -49.98 | Refer To Test Graph | Pass |
| | | 2.7 | 2498.5 | LCH | SISO | 1 | -42.79 | Refer To Test Graph | Pass |
| One | AWGN | -0.3 | 2498.5 | LCH | SISO | 1 | -49.88 | Refer To Test Graph | Pass |
| | | 2.7 | 2498.5 | LCH | SISO | 1 | -42.93 | Refer To Test Graph | Pass |
| Two | AWGN | -0.3 | 2687.5 | HCH | SISO | 1 | -47.83 | Refer To Test Graph | Pass |
| | | 2.7 | 2687.5 | HCH | SISO | 1 | -40.08 | Refer To Test Graph | Pass |
| One | AWGN | -0.3 | 2687.5 | HCH | SISO | 1 | -48.47 | Refer To Test Graph | Pass |
| | | 2.7 | 2687.5 | HCH | SISO | 1 | -38.90 | Refer To Test Graph | Pass |
| Two | GMSK | -0.3 | 2496.1 | LCH | SISO | 1 | -25.79 | Refer To Test Graph | Pass |
| | | 2.7 | 2496.1 | LCH | SISO | 1 | -22.64 | Refer To Test Graph | Pass |
| One | GMSK | -0.3 | 2496.1 | LCH | SISO | 1 | -25.92 | Refer To Test Graph | Pass |
| | | 2.7 | 2496.1 | LCH | SISO | 1 | -22.49 | Refer To Test Graph | Pass |
| Two | GMSK | -0.3 | 2689.9 | HCH | SISO | 1 | -25.91 | Refer To Test Graph | Pass |
| | | 2.7 | 2689.9 | HCH | SISO | 1 | -22.01 | Refer To Test Graph | Pass |
| One | GMSK | -0.3 | 2689.9 | HCH | SISO | 1 | -24.85 | Refer To Test Graph | Pass |
| | | 2.7 | 2689.9 | HCH | SISO | 1 | -22.24 | Refer To Test Graph | Pass |

For 5G NR N41

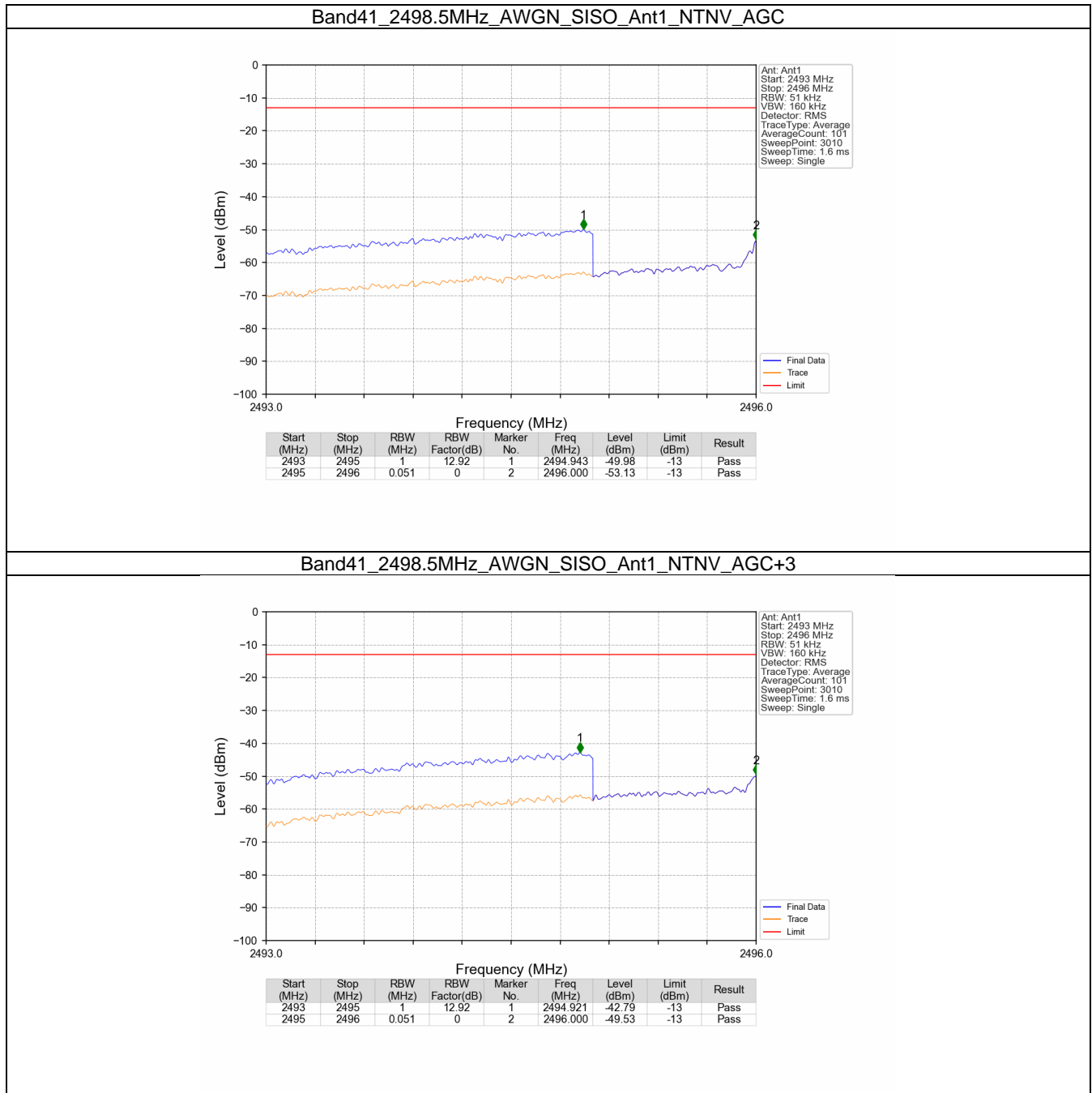
| N41 / NTNV | | | | | | | | | |
|------------|------|-------------|-----------------|---------|---------|-----|-----------|---------------------|---------|
| Signal | | | | Channel | TX Type | ANT | OOB (dBm) | | Verdict |
| Input | Type | Level (dBm) | Frequency (MHz) | | | | Result | Limit | |
| Two | AWGN | -0.3 | 2546 | LCH | SISO | 1 | -33.580 | Refer To Test Graph | Pass |
| | | 2.7 | 2546 | LCH | SISO | 1 | -33.623 | Refer To Test Graph | Pass |
| One | AWGN | -0.3 | 2546 | LCH | SISO | 1 | -33.905 | Refer To Test Graph | Pass |
| | | 2.7 | 2546 | LCH | SISO | 1 | -33.727 | Refer To Test Graph | Pass |
| Two | AWGN | -0.3 | 2640 | HCH | SISO | 1 | -33.416 | Refer To Test Graph | Pass |
| | | 2.7 | 2640 | HCH | SISO | 1 | -33.511 | Refer To Test Graph | Pass |
| One | AWGN | -0.3 | 2640 | HCH | SISO | 1 | -33.462 | Refer To Test Graph | Pass |
| | | 2.7 | 2640 | HCH | SISO | 1 | -33.548 | Refer To Test Graph | Pass |



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5.1.2 Test Graph

For LTE Band 41



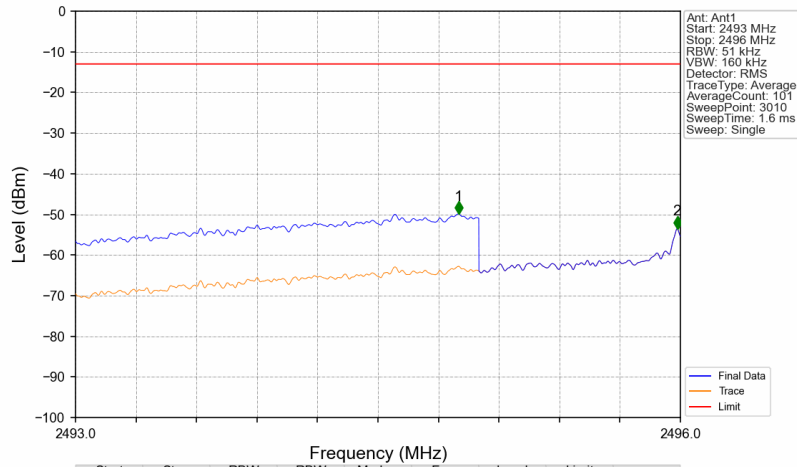
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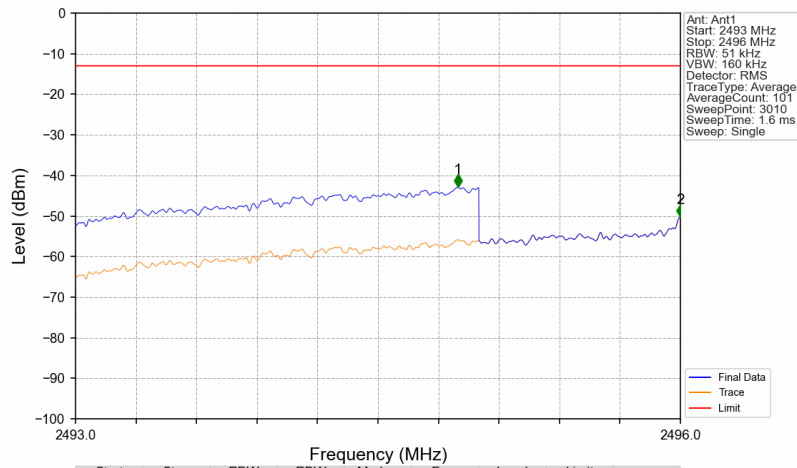
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Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV_AGC



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|----------------|------------|------------|-------------|-------------|--------|
| 2493 | 2495 | 1 | 12.92 | 1 | 2494.899 | -49.88 | -13 | Pass |
| 2495 | 2496 | 0.051 | 0 | 2 | 2495.984 | -53.54 | -13 | Pass |

Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|----------------|------------|------------|-------------|-------------|--------|
| 2493 | 2495 | 1 | 12.92 | 1 | 2494.896 | -42.93 | -13 | Pass |
| 2495 | 2496 | 0.051 | 0 | 2 | 2496.000 | -50.27 | -13 | Pass |



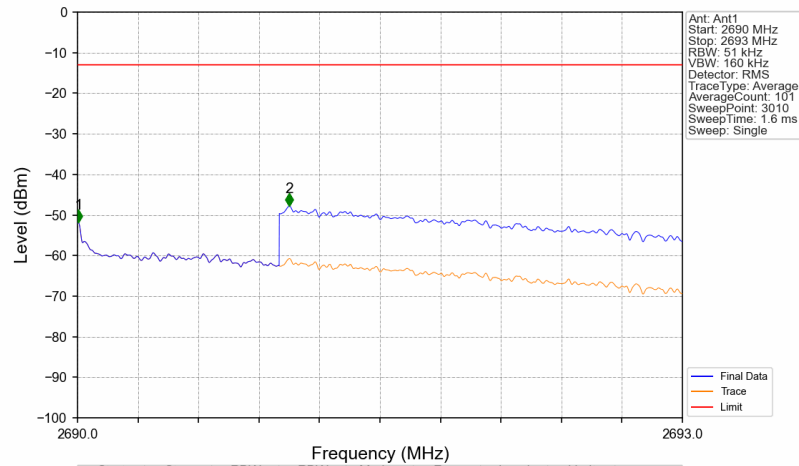
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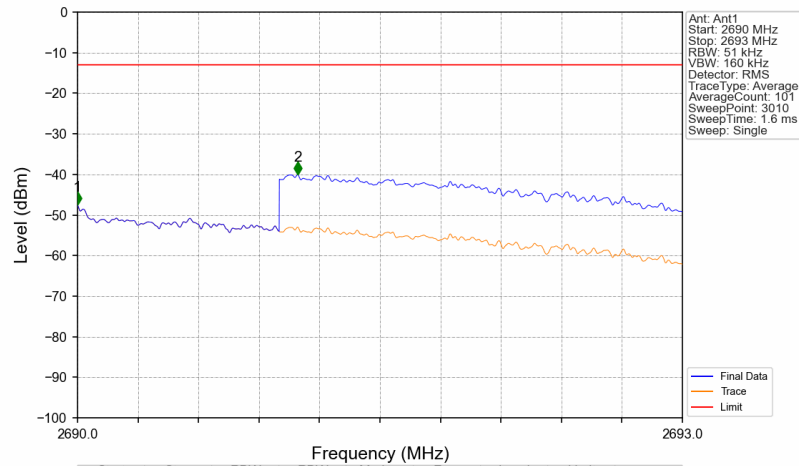
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Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV_AGC



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|----------------|------------|------------|-------------|-------------|--------|
| 2690 | 2691 | 0.051 | 0 | 1 | 2690.004 | -51.90 | -13 | Pass |
| 2691 | 2693 | 1 | 12.92 | 2 | 2691.051 | -47.83 | -13 | Pass |

Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|----------------|------------|------------|-------------|-------------|--------|
| 2690 | 2691 | 0.051 | 0 | 1 | 2690.000 | -47.49 | -13 | Pass |
| 2691 | 2693 | 1 | 12.92 | 2 | 2691.092 | -40.08 | -13 | Pass |



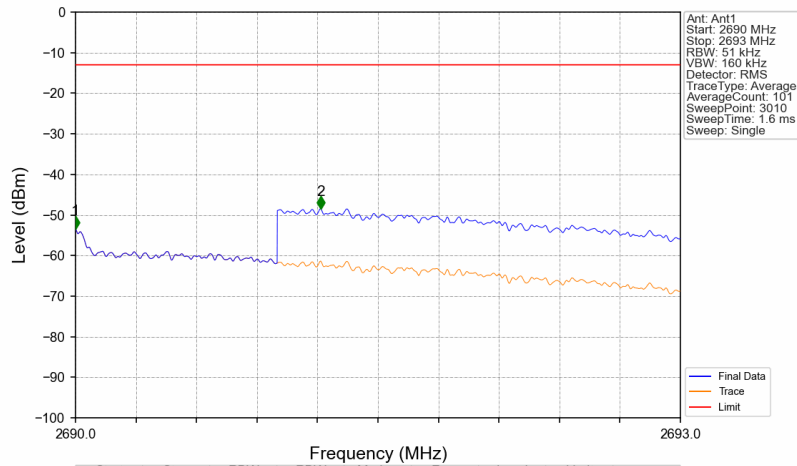
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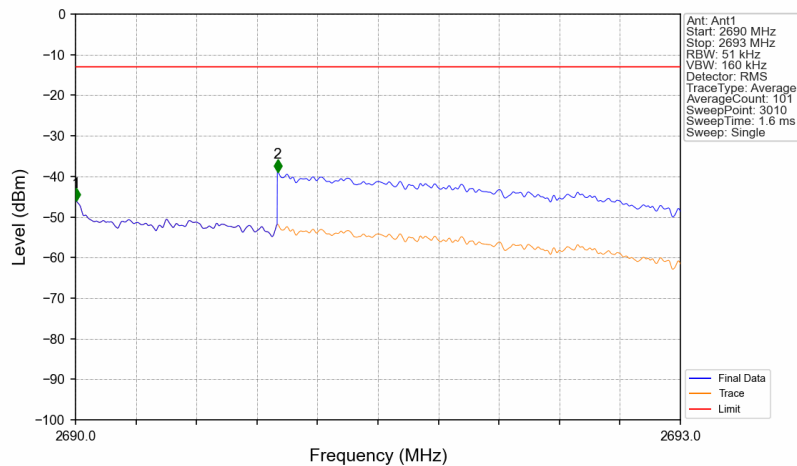
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Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV_AGC



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|----------------|------------|------------|-------------|-------------|--------|
| 2690 | 2691 | 0.051 | 0 | 1 | 2690.000 | -53.35 | -13 | Pass |
| 2691 | 2693 | 1 | 12.92 | 2 | 2691.215 | -48.47 | -13 | Pass |

Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|----------------|------------|------------|-------------|-------------|--------|
| 2690 | 2691 | 0.051 | 0 | 1 | 2690.002 | -46.11 | -13 | Pass |
| 2691 | 2693 | 1 | 12.92 | 2 | 2691.002 | -38.90 | -13 | Pass |



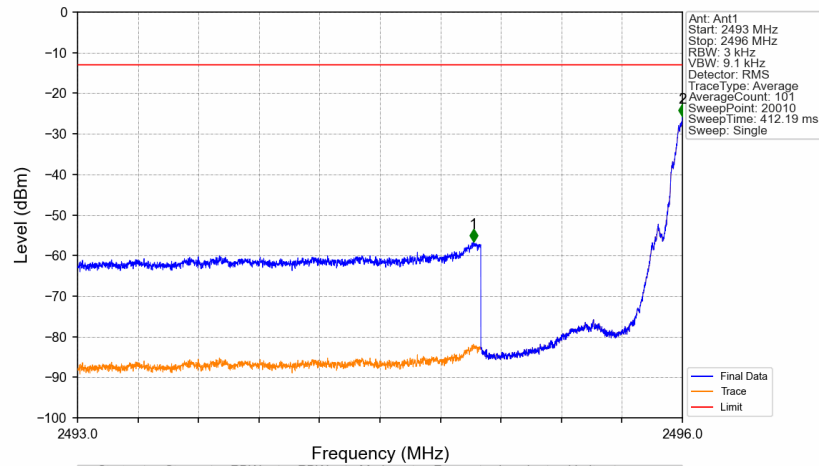
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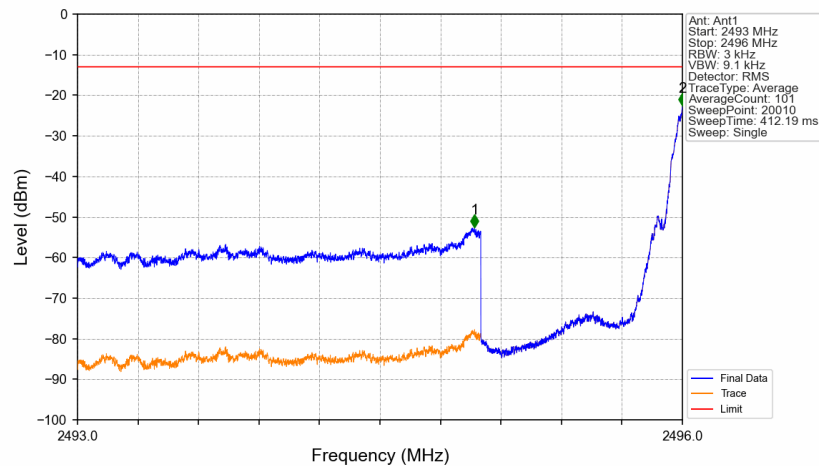
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Band41_2496.1MHz_GMSK_SISO_Ant1_NTNV_AGC



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|----------------|------------|------------|-------------|-------------|--------|
| 2493 | 2495 | 1 | 25.23 | 1 | 2494.964 | -56.59 | -13 | Pass |
| 2495 | 2496 | 0.003 | 0 | 2 | 2495.999 | -25.79 | -13 | Pass |

Band41_2496.1MHz_GMSK_SISO_Ant1_NTNV_AGC+3



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|----------------|------------|------------|-------------|-------------|--------|
| 2493 | 2495 | 1 | 25.23 | 1 | 2494.969 | -52.52 | -13 | Pass |
| 2495 | 2496 | 0.003 | 0 | 2 | 2496.000 | -22.64 | -13 | Pass |



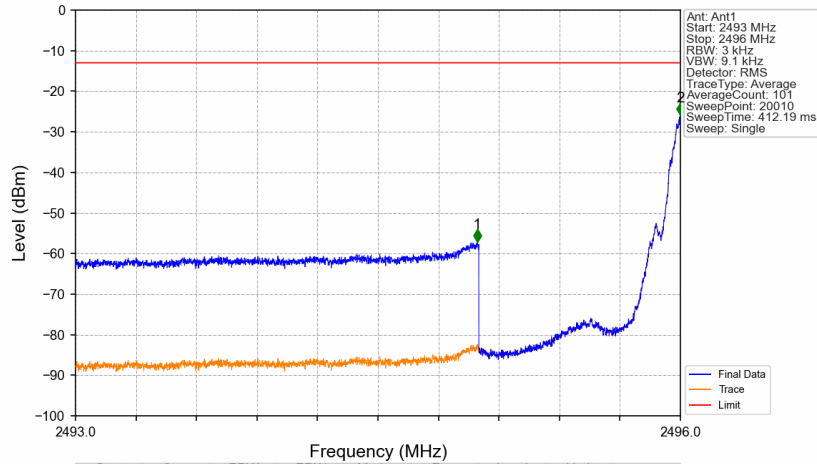
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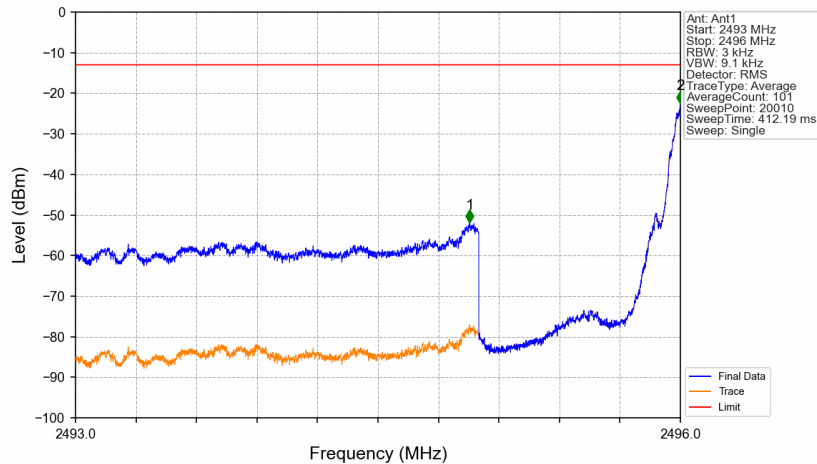
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Band41_2496.1MHz_GMSK_SISO_Ant1_NTNV_AGC



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|----------------|------------|------------|-------------|-------------|--------|
| 2493 | 2495 | 1 | 25.23 | 1 | 2494.993 | -57.12 | -13 | Pass |
| 2495 | 2496 | 0.003 | 0 | 2 | 2495.999 | -25.92 | -13 | Pass |

Band41_2496.1MHz_GMSK_SISO_Ant1_NTNV_AGC+3



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|----------------|------------|------------|-------------|-------------|--------|
| 2493 | 2495 | 1 | 25.23 | 1 | 2494.954 | -51.82 | -13 | Pass |
| 2495 | 2496 | 0.003 | 0 | 2 | 2495.999 | -22.49 | -13 | Pass |



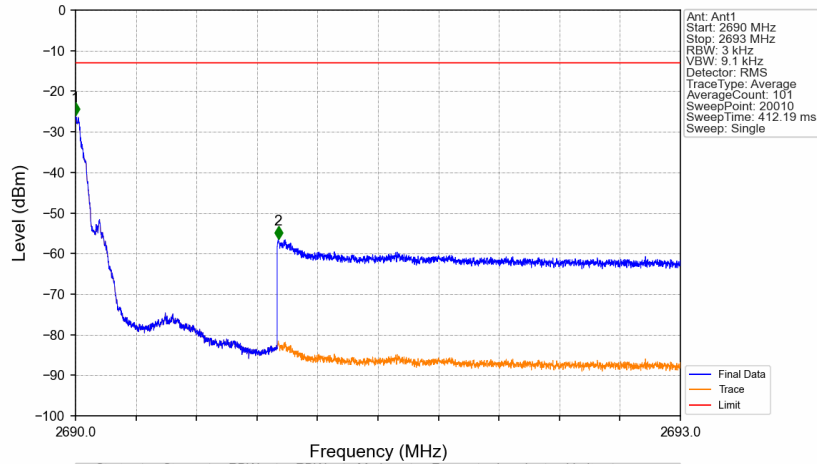
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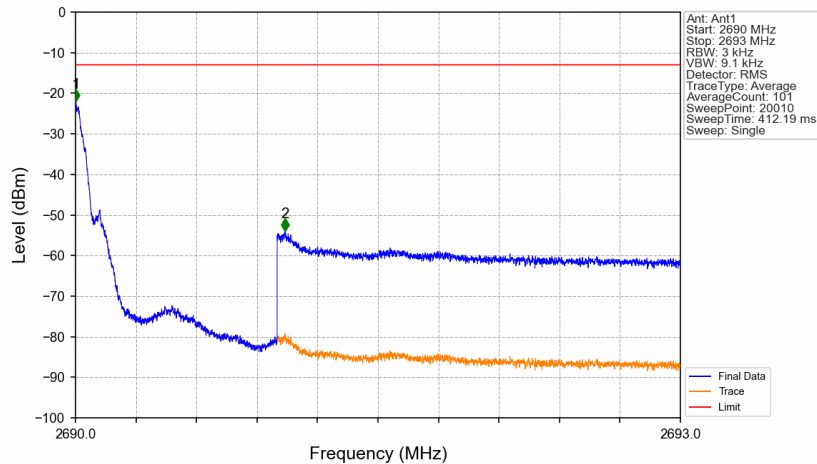
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Band41_2689.9MHz_GMSK_SISO_Ant1_NTNV_AGC



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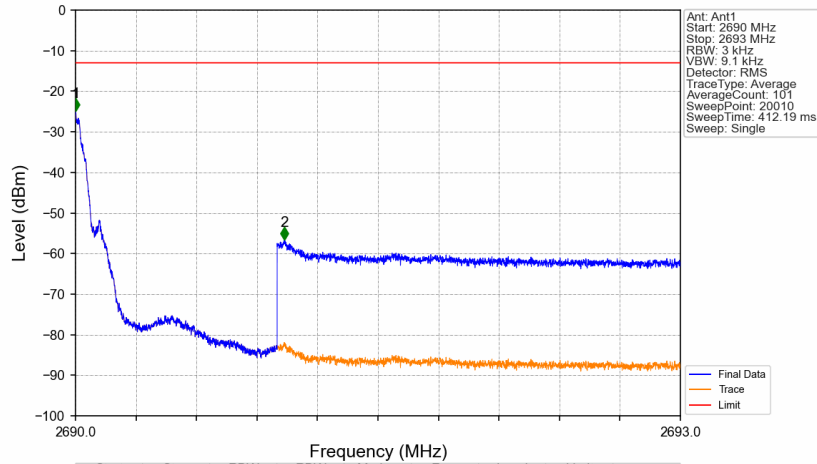
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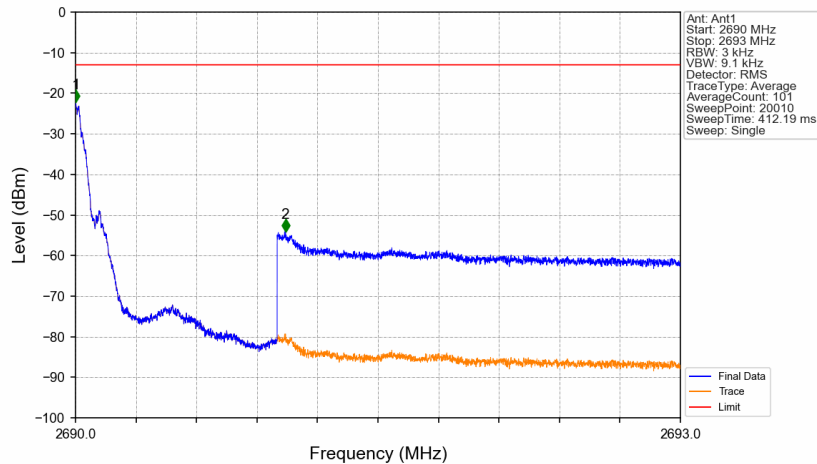
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Band41_2689.9MHz_GMSK_SISO_Ant1_NTNV_AGC



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|----------------|------------|------------|-------------|-------------|--------|
| 2690 | 2691 | 0.003 | 0 | 1 | 2690.001 | -24.85 | -13 | Pass |
| 2691 | 2693 | 1 | 25.23 | 2 | 2691.035 | -56.66 | -13 | Pass |

Band41_2689.9MHz_GMSK_SISO_Ant1_NTNV_AGC+3



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|----------------|------------|------------|-------------|-------------|--------|
| 2690 | 2691 | 0.003 | 0 | 1 | 2690.001 | -22.24 | -13 | Pass |
| 2691 | 2693 | 1 | 25.23 | 2 | 2691.041 | -54.09 | -13 | Pass |



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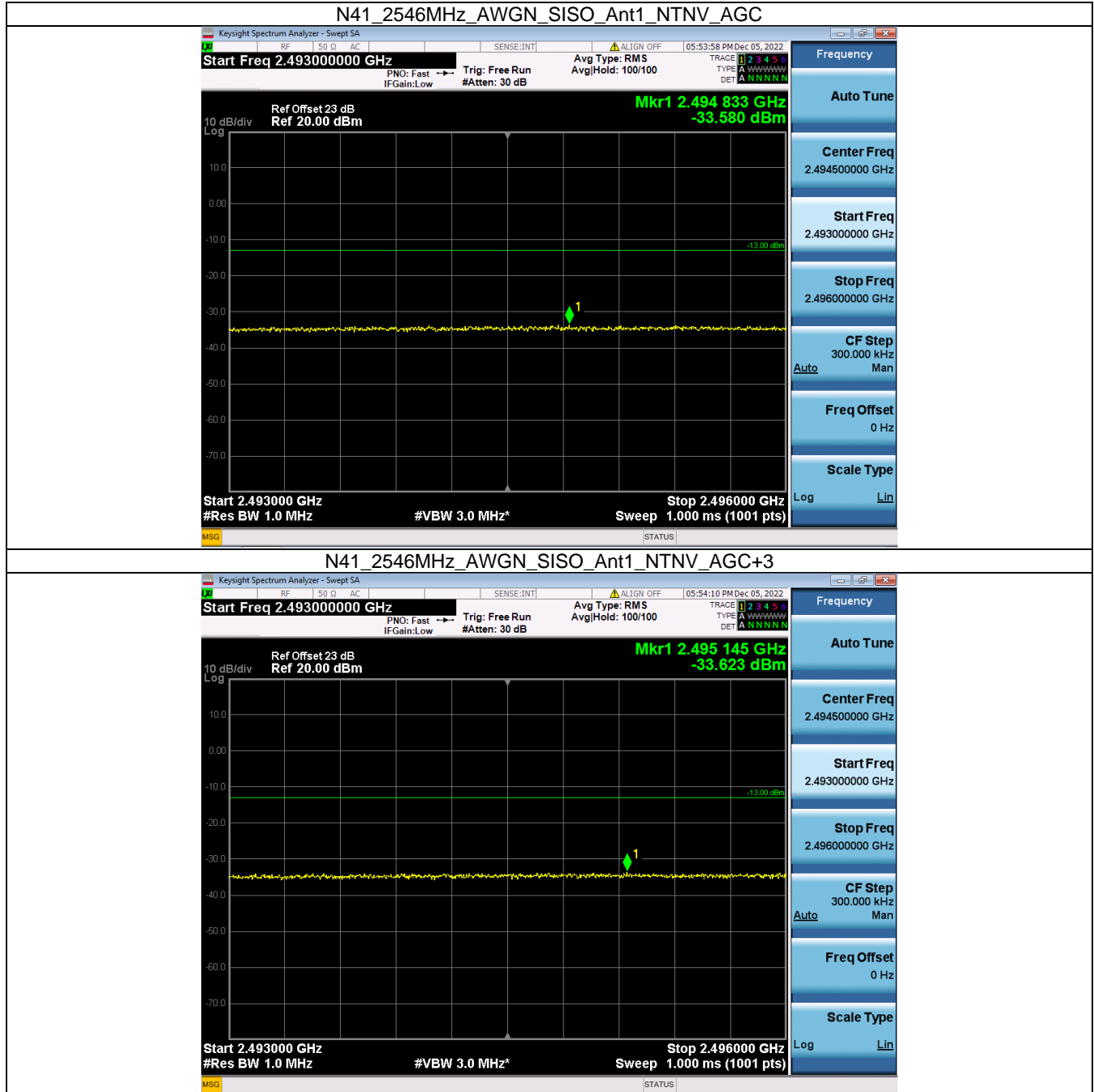
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For 5GNR N41



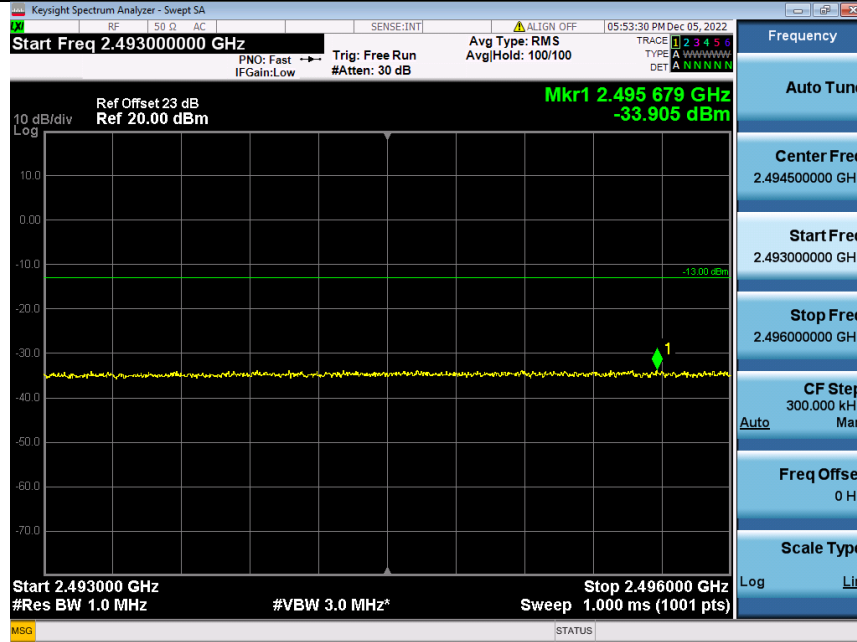
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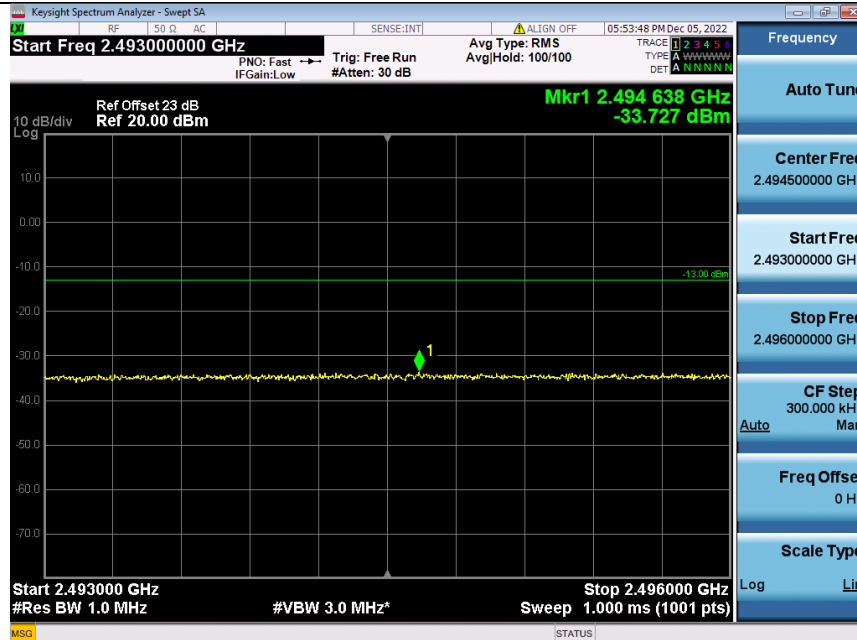
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N41_2546MHz_AWGN_SISO_Ant1_NTNV_AGC



N41_2546MHz_AWGN_SISO_Ant1_NTNV_AGC+3



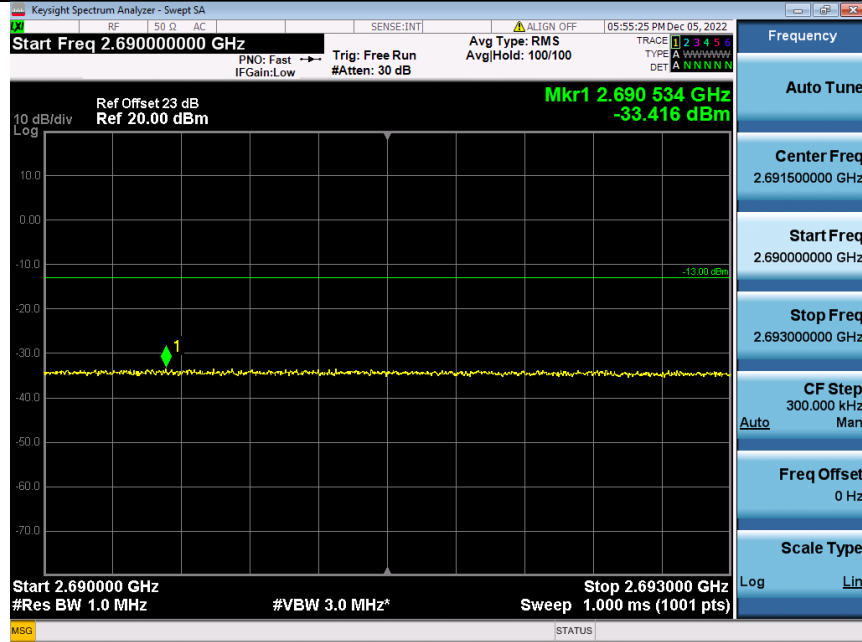
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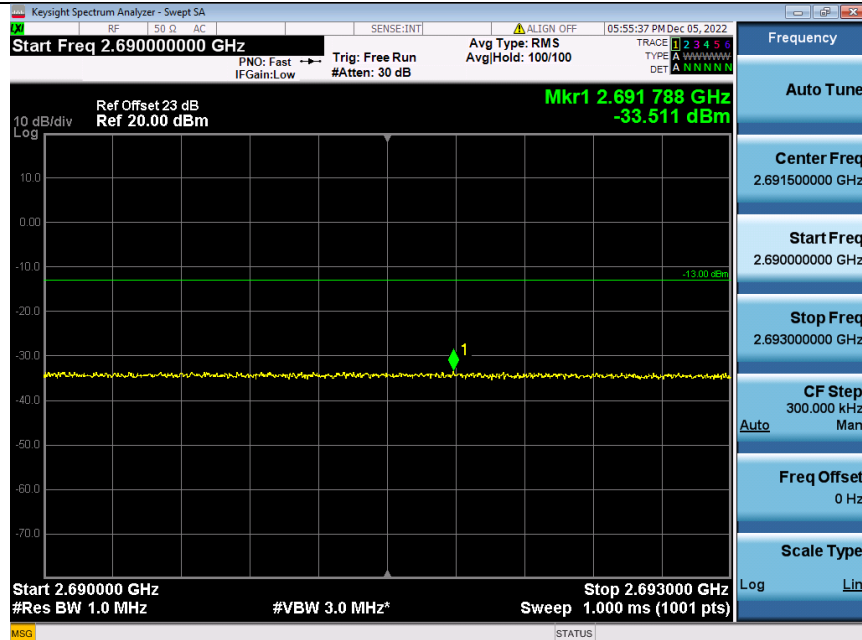
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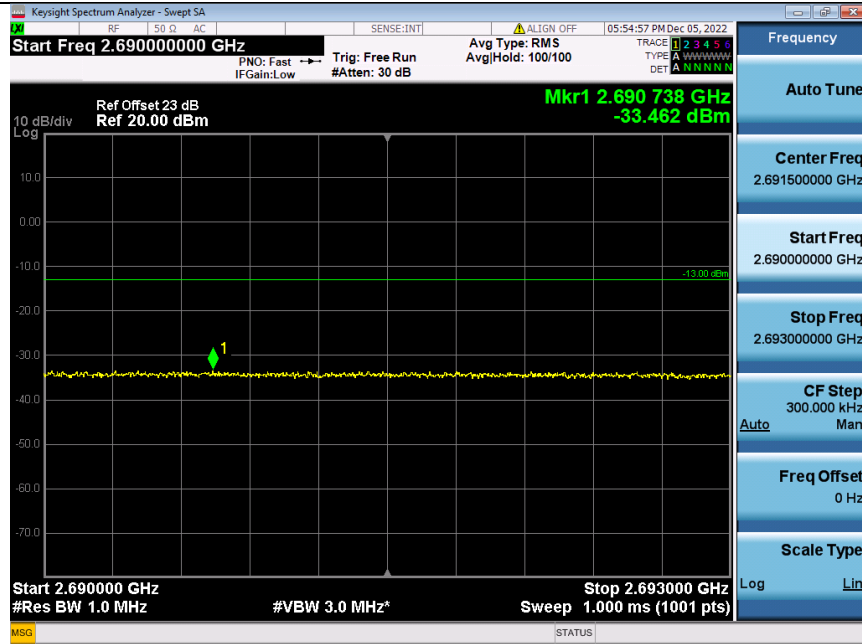
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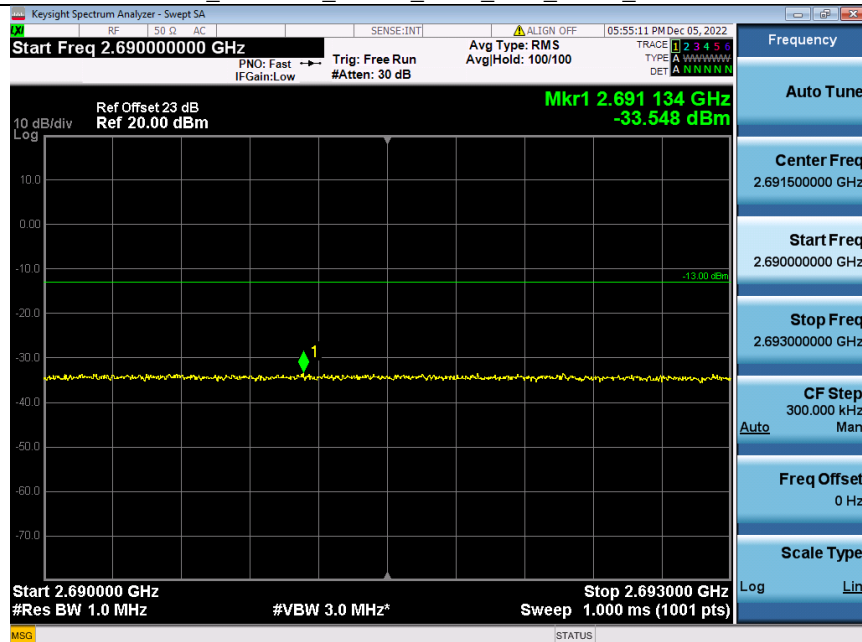
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6. Spurious emissions

6.1 Band41

6.1.1 Test Result

For LTE Band 41

| Band: 41 / NTNV | | | | | | | | |
|-----------------|-------------|-----------------|---------|---------|-----|---------------------|-------|---------|
| Signal | | | Channel | TX Type | ANT | SE (dBm) | | Verdict |
| Type | Level (dBm) | Frequency (MHz) | | | | Result | Limit | |
| AWGN | -0.3 | 2498.5 | LCH | SISO | 1 | Refer To Test Graph | | Pass |
| | | 2593 | MCH | SISO | 1 | Refer To Test Graph | | Pass |
| | | 2687.5 | HCH | SISO | 1 | Refer To Test Graph | | Pass |
| GMSK | -0.3 | 2496.1 | LCH | SISO | 1 | Refer To Test Graph | | Pass |
| | | 2593 | MCH | SISO | 1 | Refer To Test Graph | | Pass |
| | | 2689.9 | HCH | SISO | 1 | Refer To Test Graph | | Pass |

For 5G NR N41

| N41 / NTNV | | | | | | | | |
|------------|-------------|-----------------|---------|---------|-----|---------------------|-------|---------|
| Signal | | | Channel | TX Type | ANT | SE (dBm) | | Verdict |
| Type | Level (dBm) | Frequency (MHz) | | | | Result | Limit | |
| AWGN | -0.3 | 2546 | LCH | SISO | 1 | Refer To Test Graph | | Pass |
| | | 2593 | MCH | SISO | 1 | Refer To Test Graph | | Pass |
| | | 2640 | HCH | SISO | 1 | Refer To Test Graph | | Pass |

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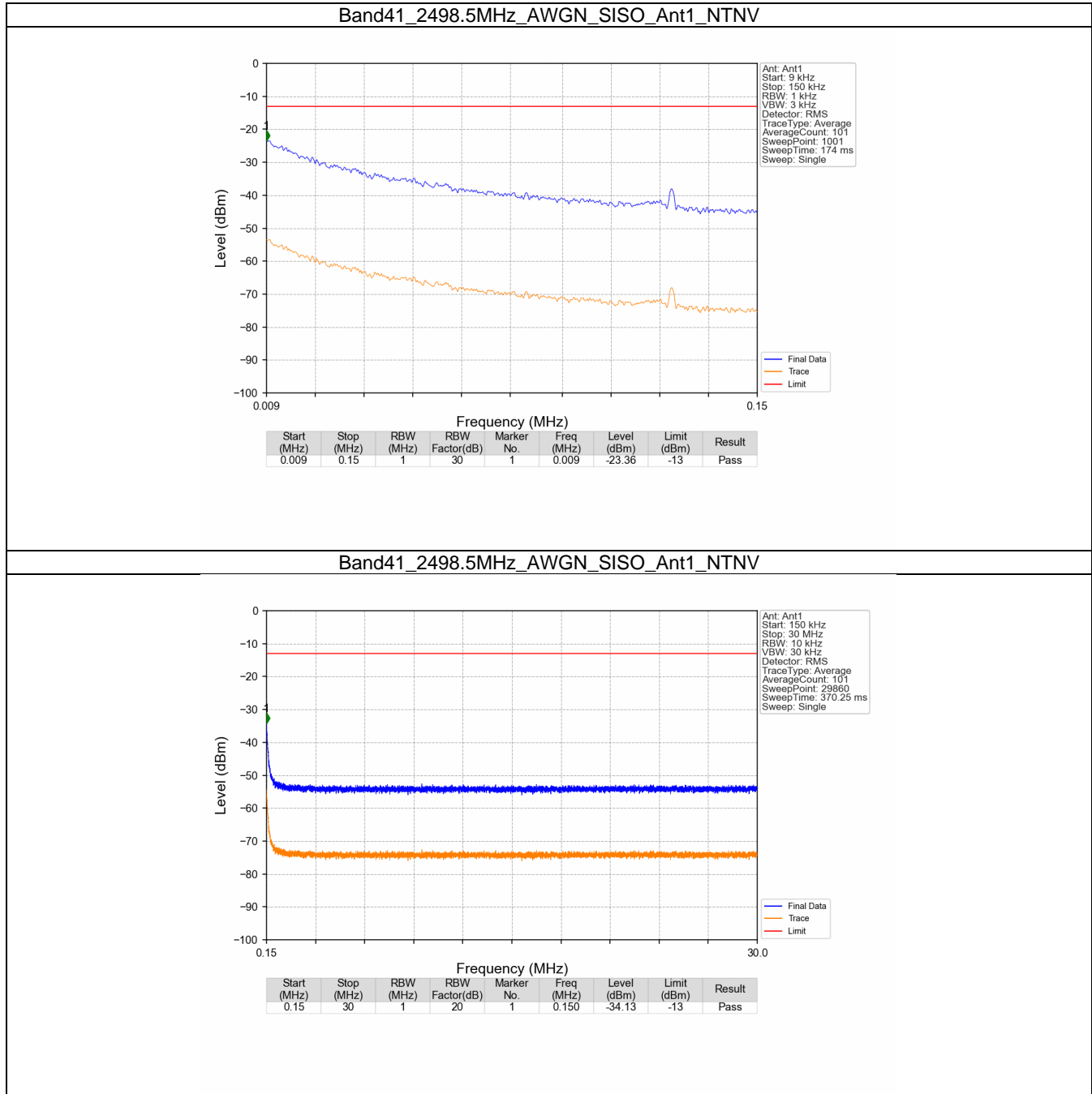
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6.1.2 Test Graph

For LTE Band 41



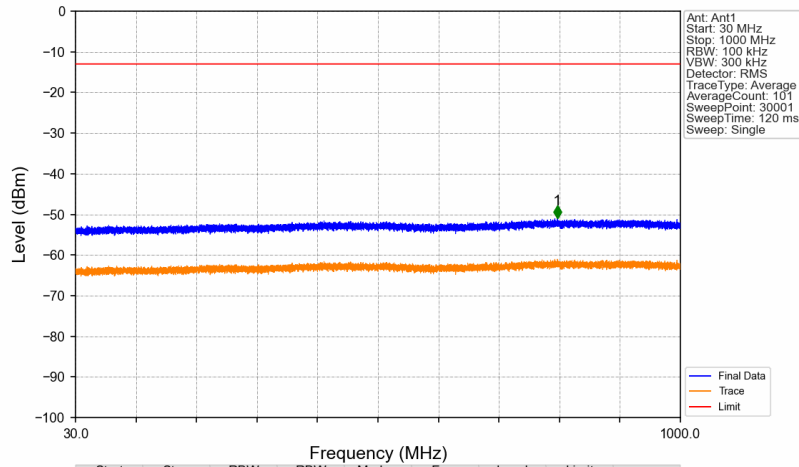
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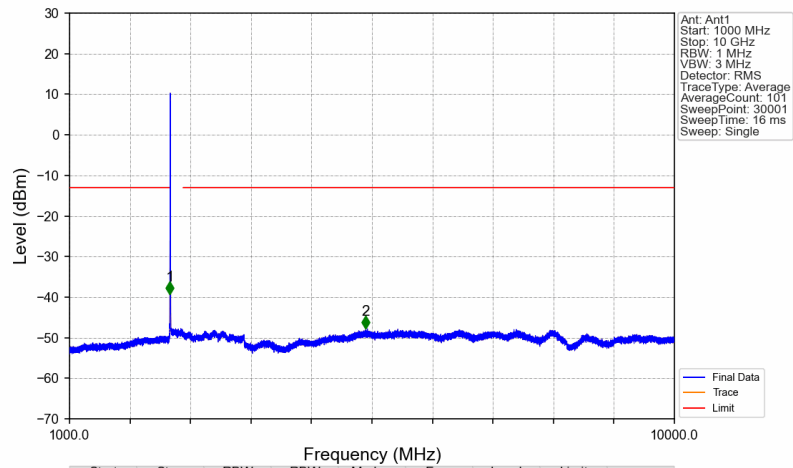
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Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV



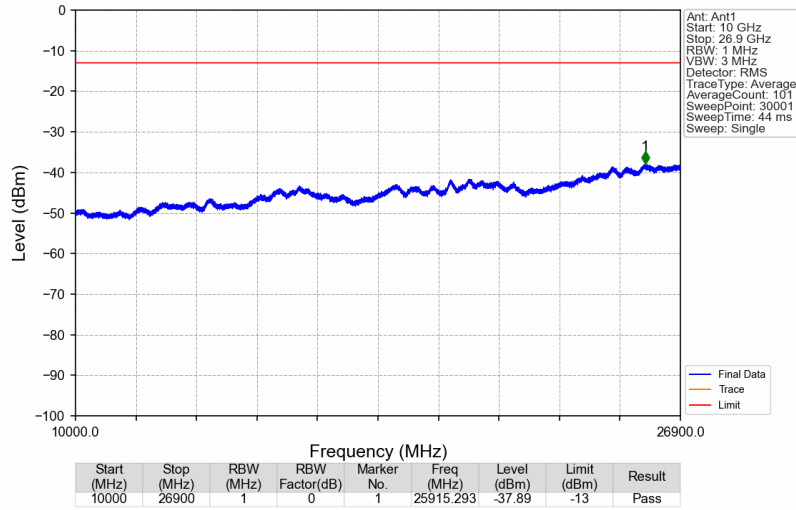
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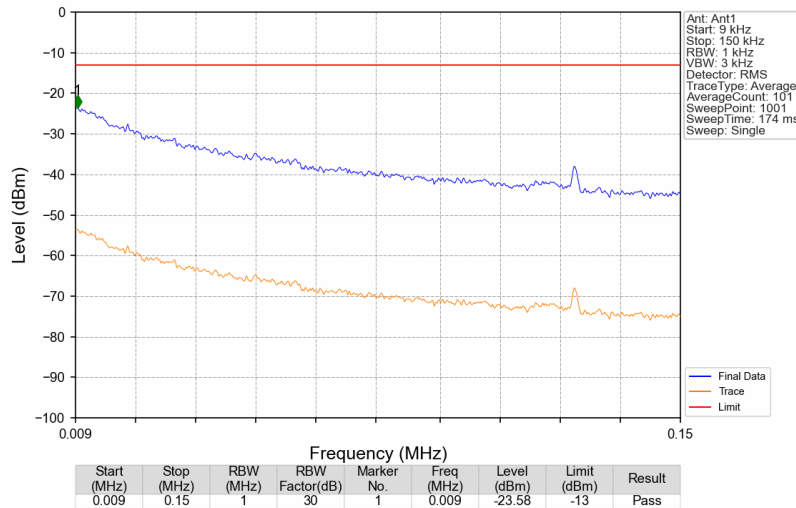
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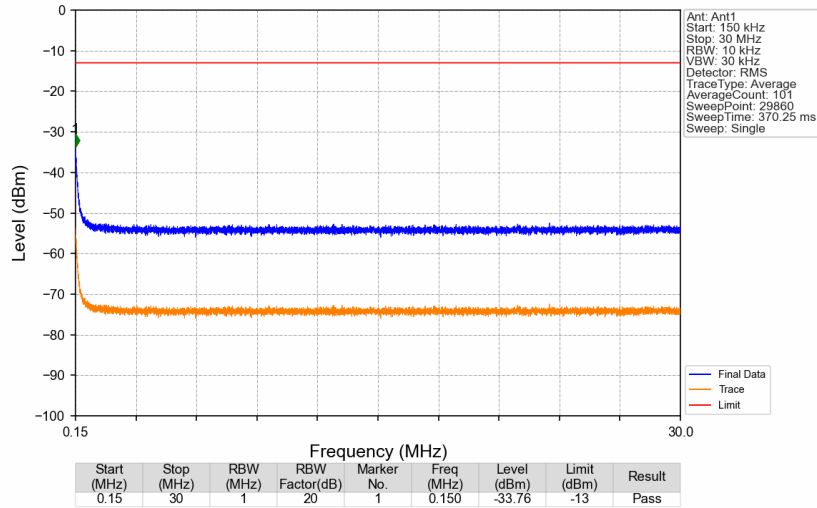
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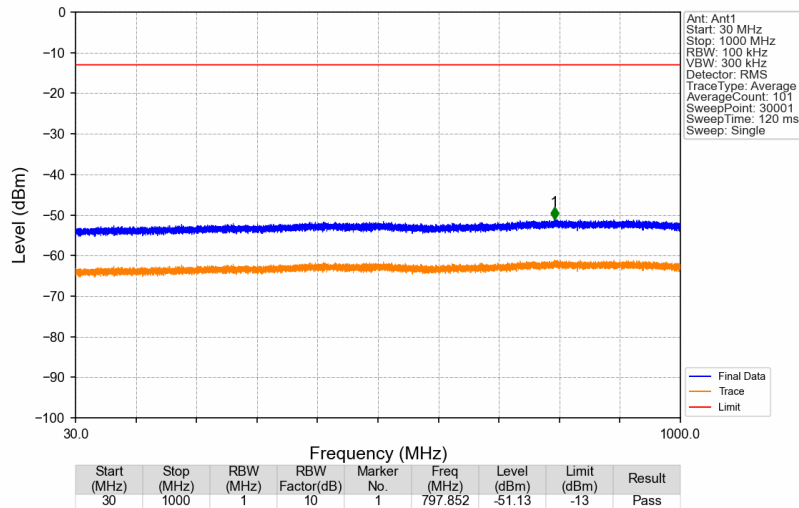
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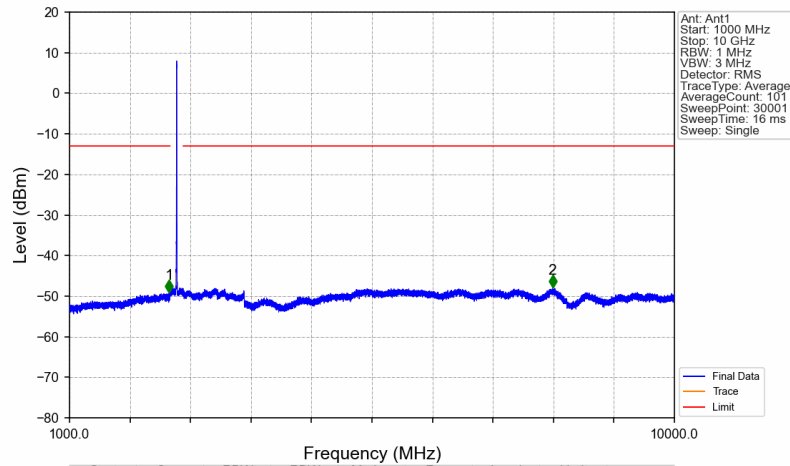
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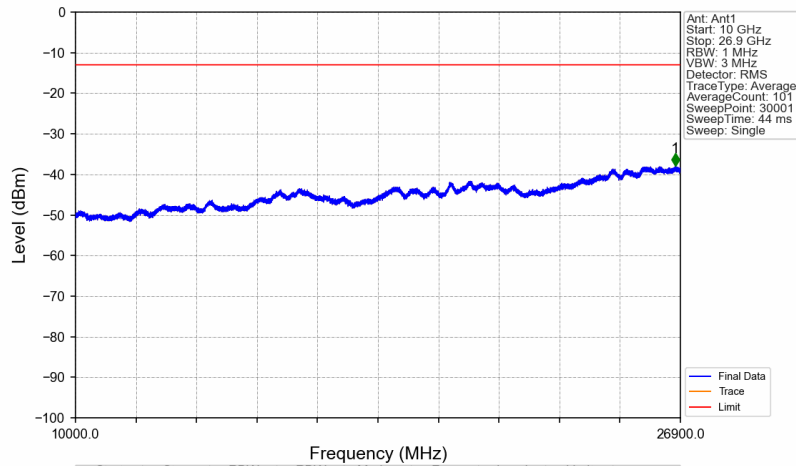
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Band41_2593MHz_AWGN_SISO_Ant1_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|----------------|------------|------------|-------------|-------------|--------|
| 1000 | 2596 | 1 | 0 | 1 | 2482.000 | -49.21 | -13 | Pass |
| 2596 | 2696 | 1 | 0 | 1 | / | / | / | / |
| 2696 | 10000 | 1 | 0 | 2 | 8186.200 | -47.91 | -13 | Pass |

Band41_2593MHz_AWGN_SISO_Ant1_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|----------------|------------|------------|-------------|-------------|--------|
| 10000 | 26900 | 1 | 0 | 1 | 26753.533 | -37.98 | -13 | Pass |



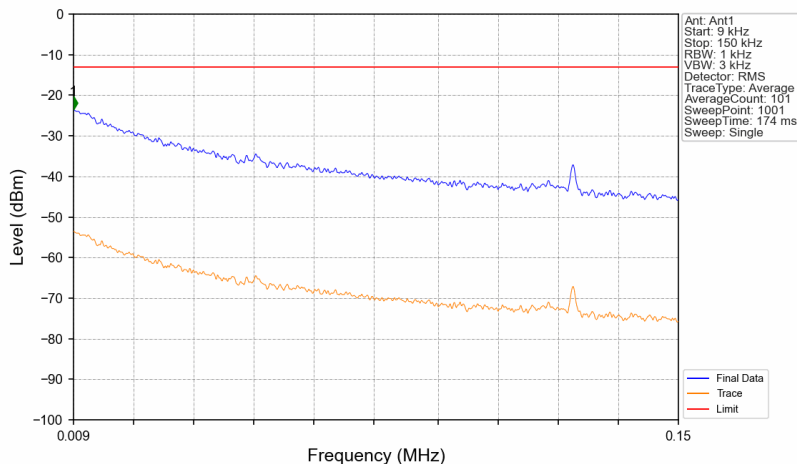
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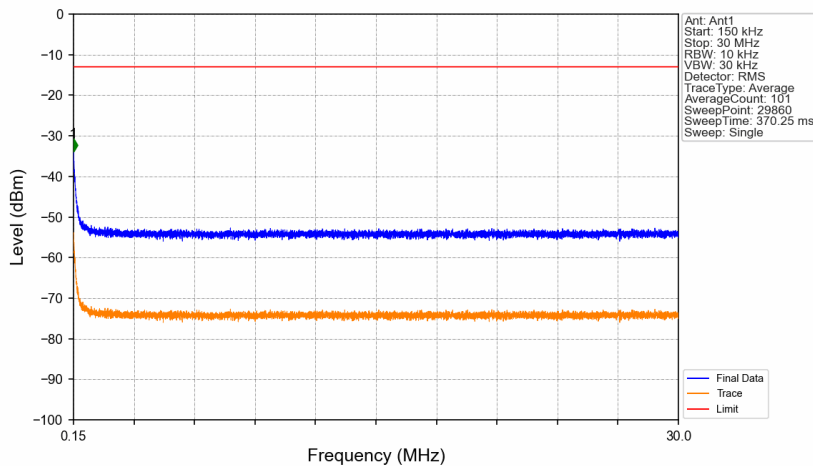
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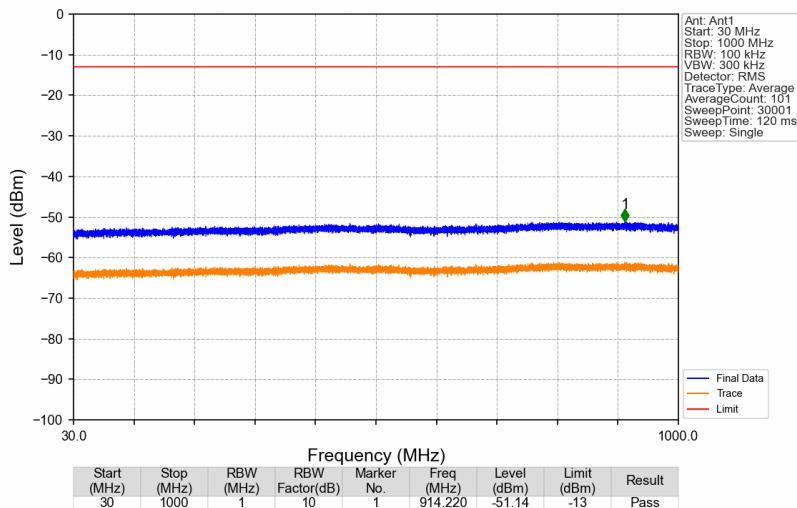
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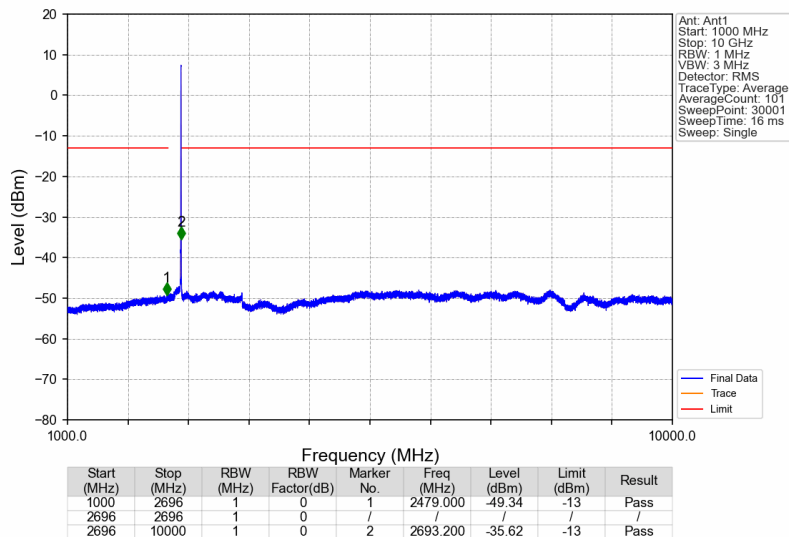
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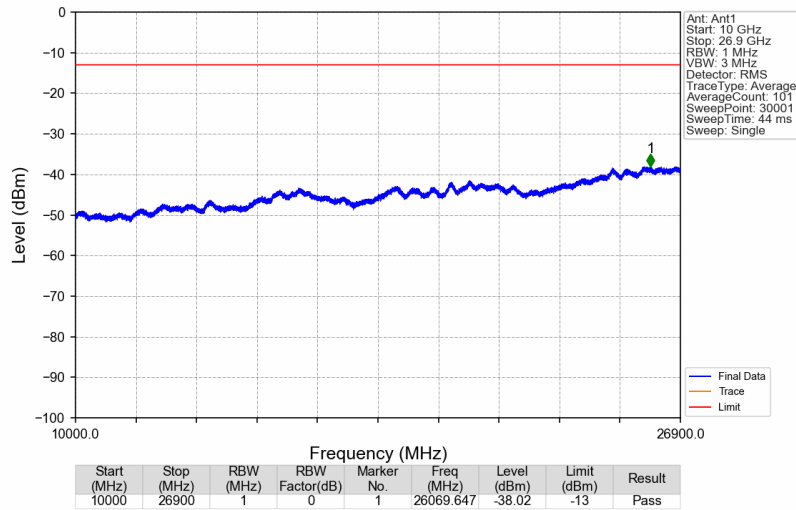
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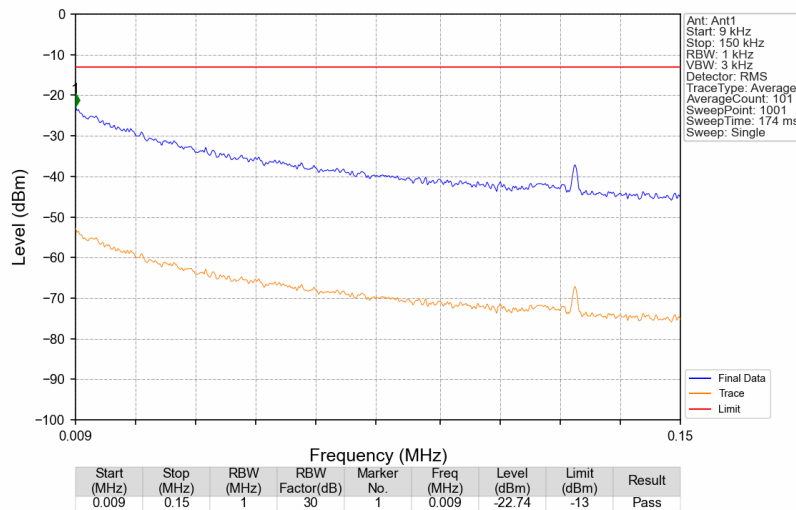
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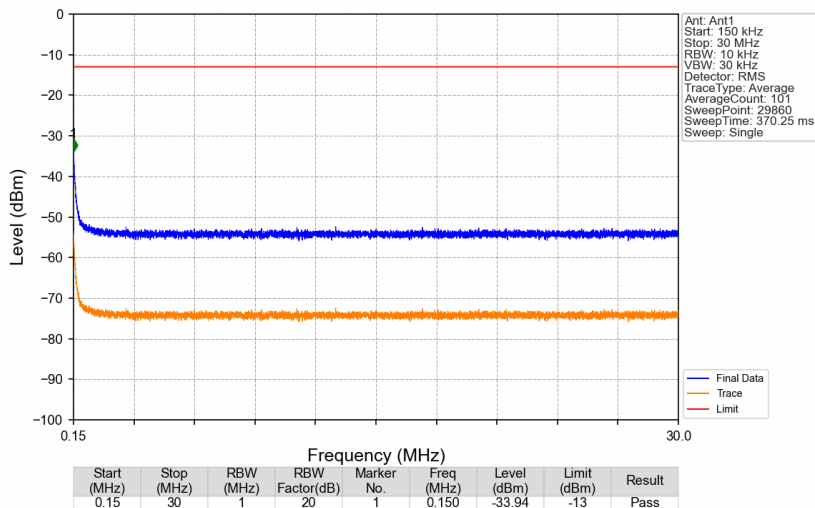
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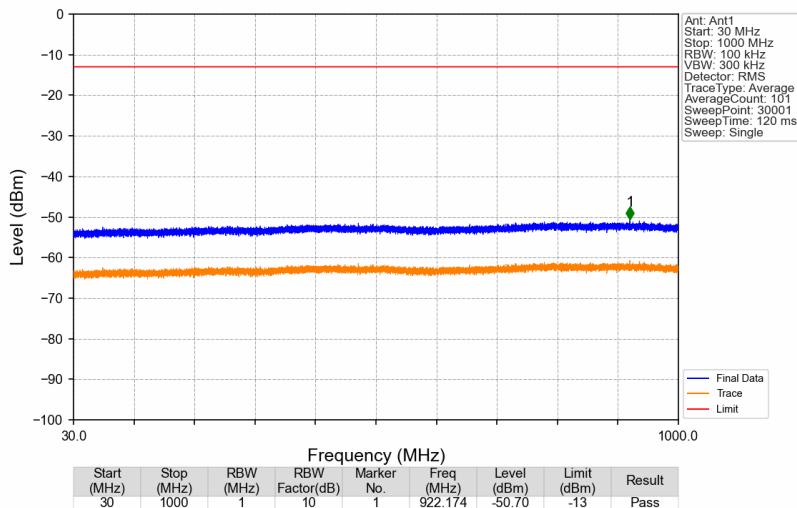
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Band41_2496.1MHz_GMSK_SISO_Ant1_NTNV



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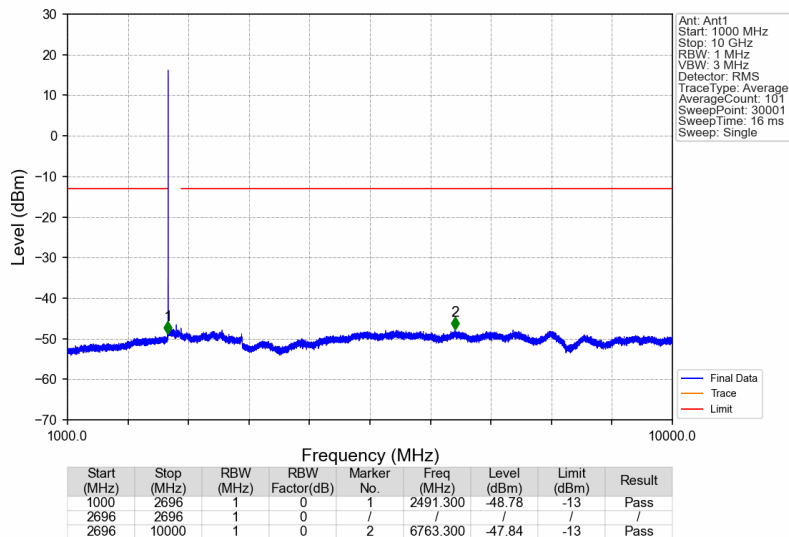
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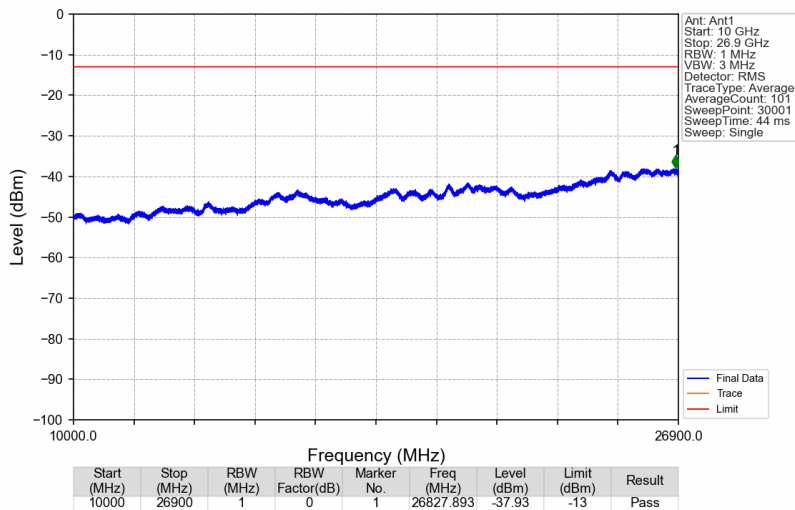
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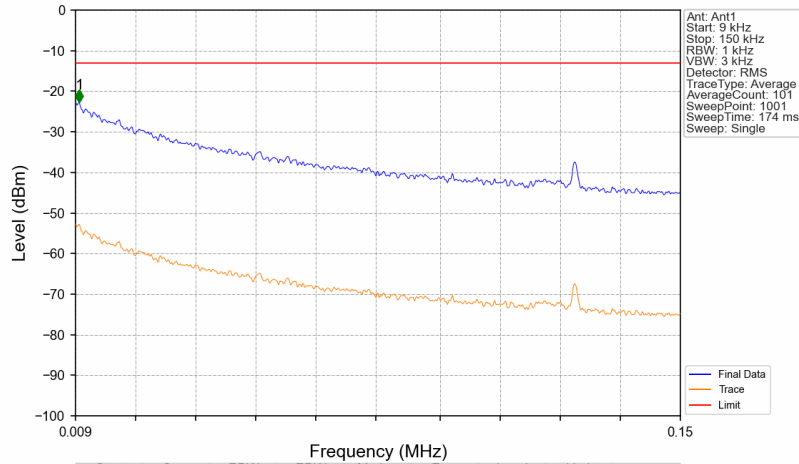
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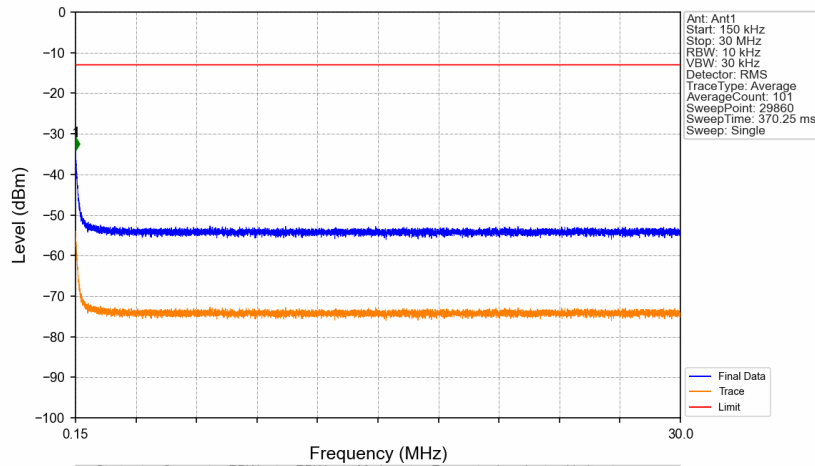
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Band41_2593MHz_GMSK_SISO_Ant1_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|----------------|------------|------------|-------------|-------------|--------|
| 0.009 | 0.15 | 1 | 30 | 1 | 0.010 | -22.80 | -13 | Pass |

Band41_2593MHz_GMSK_SISO_Ant1_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | RBW Factor(dB) | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|----------------|------------|------------|-------------|-------------|--------|
| 0.15 | 30 | 1 | 20 | 1 | 0.153 | -34.02 | -13 | Pass |



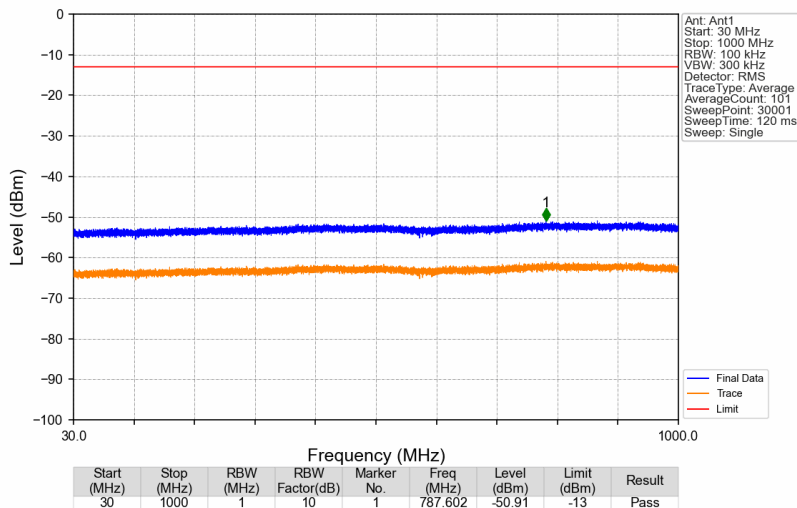
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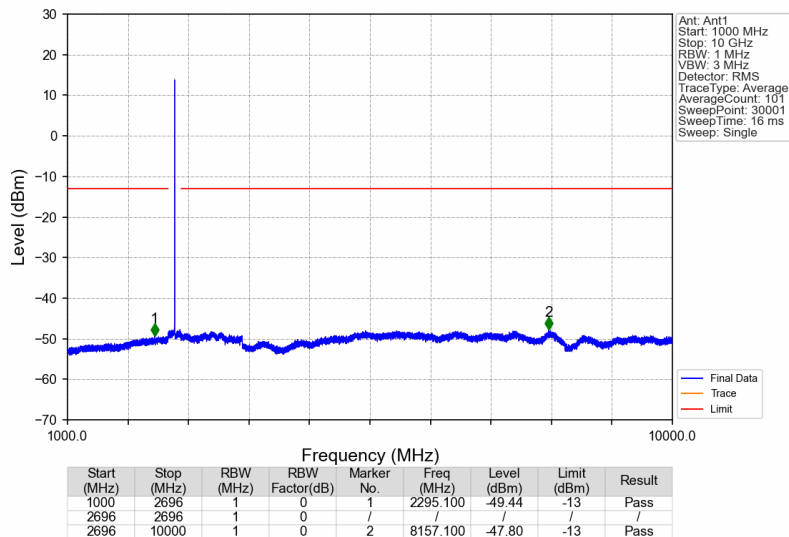
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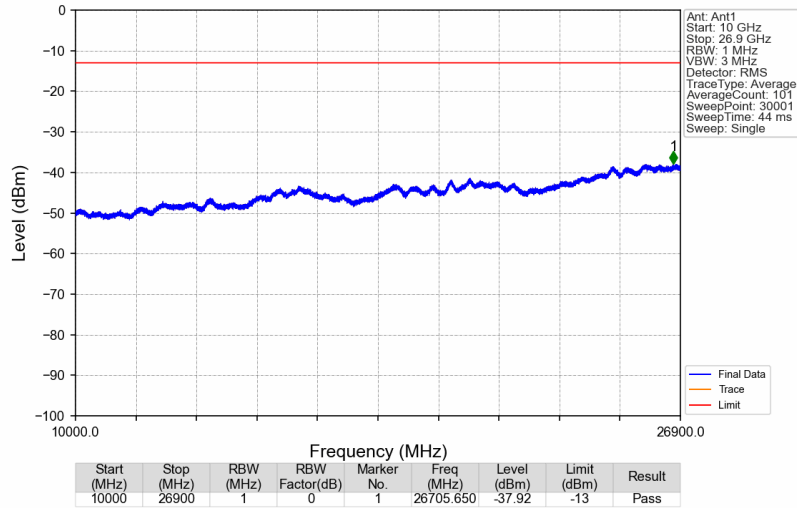


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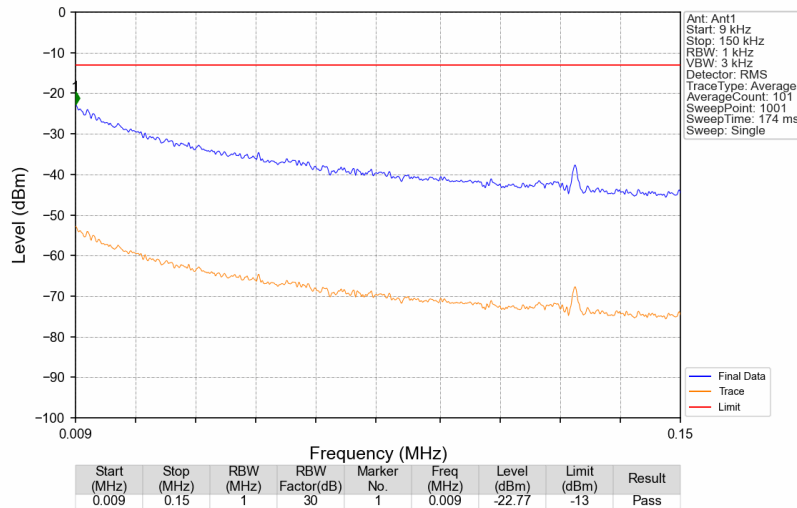
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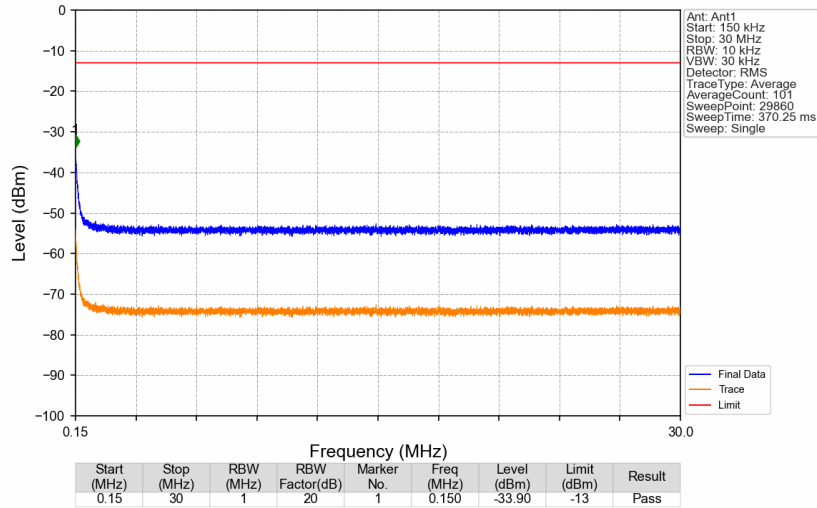
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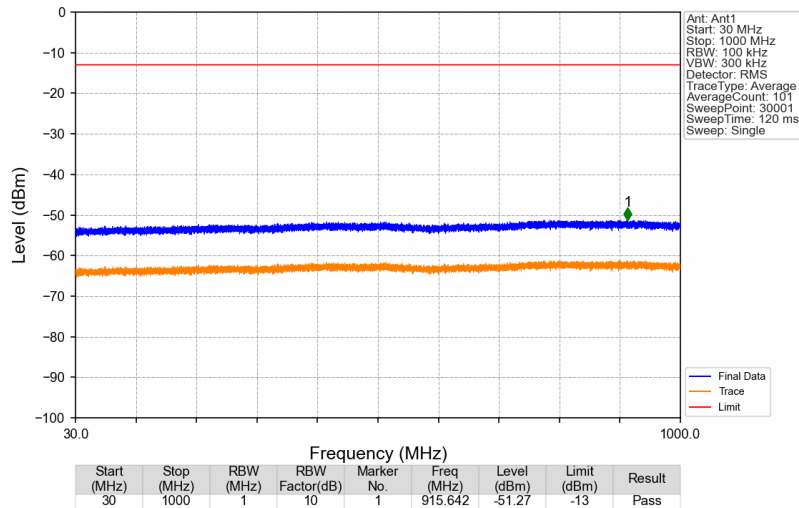
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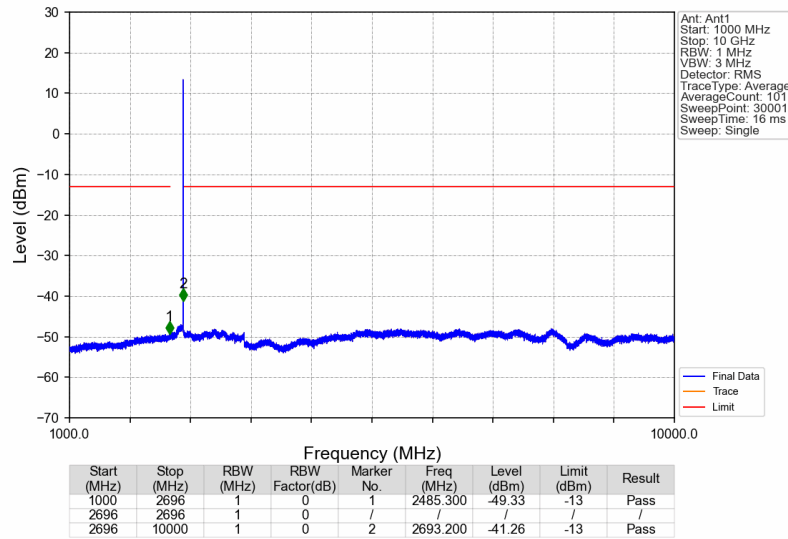
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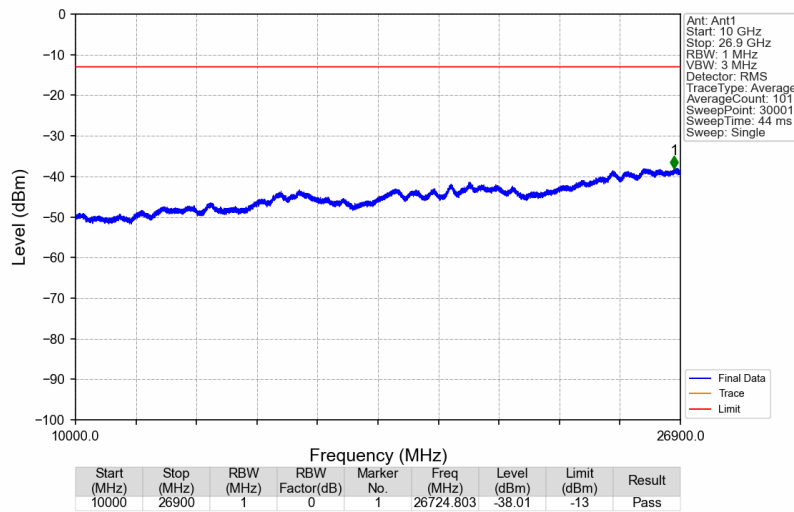
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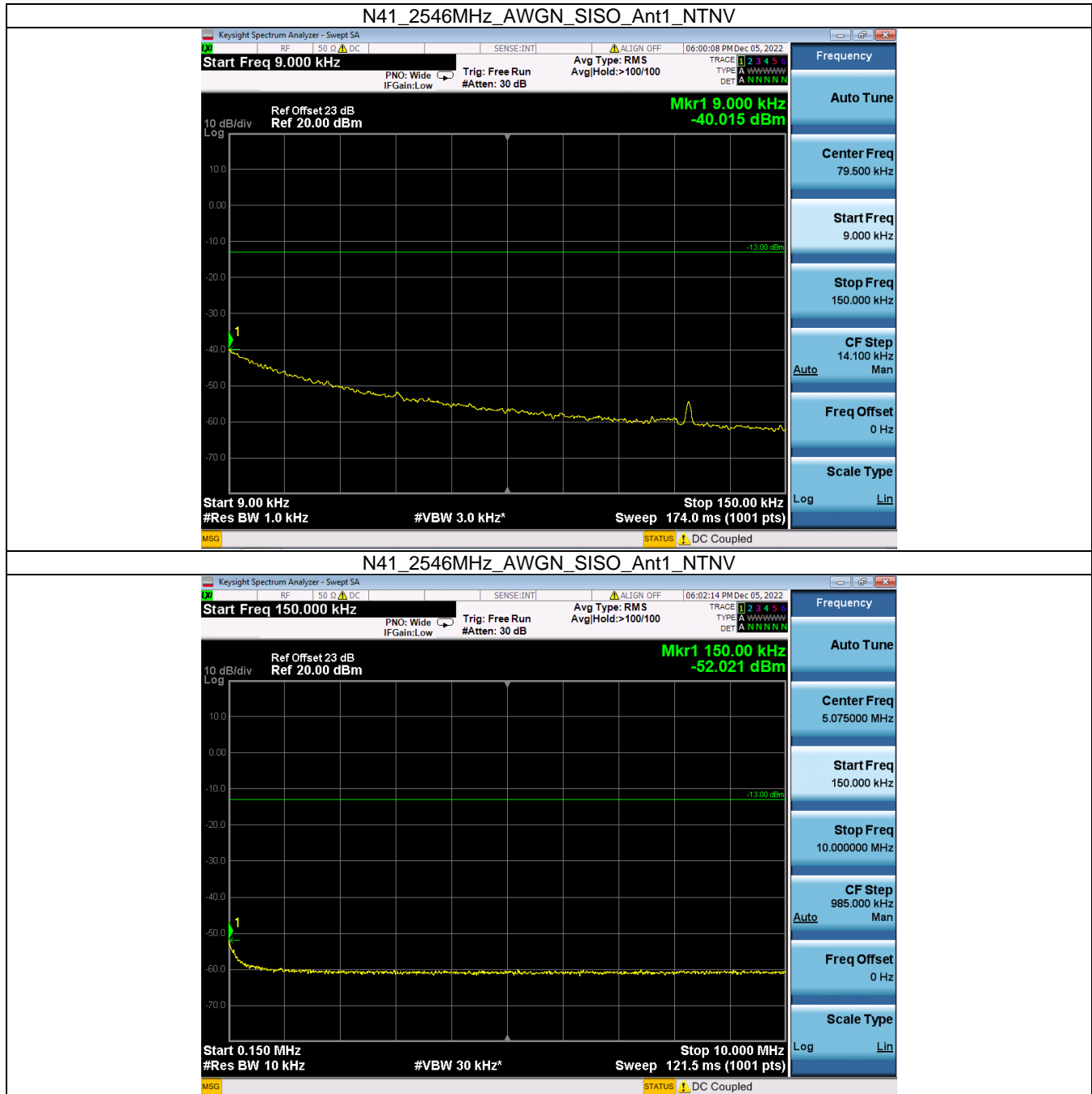
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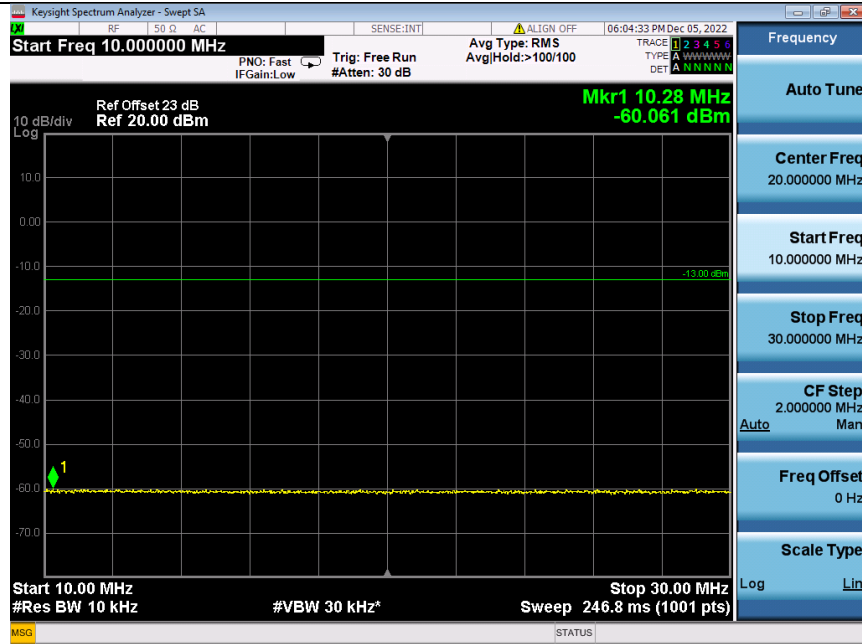
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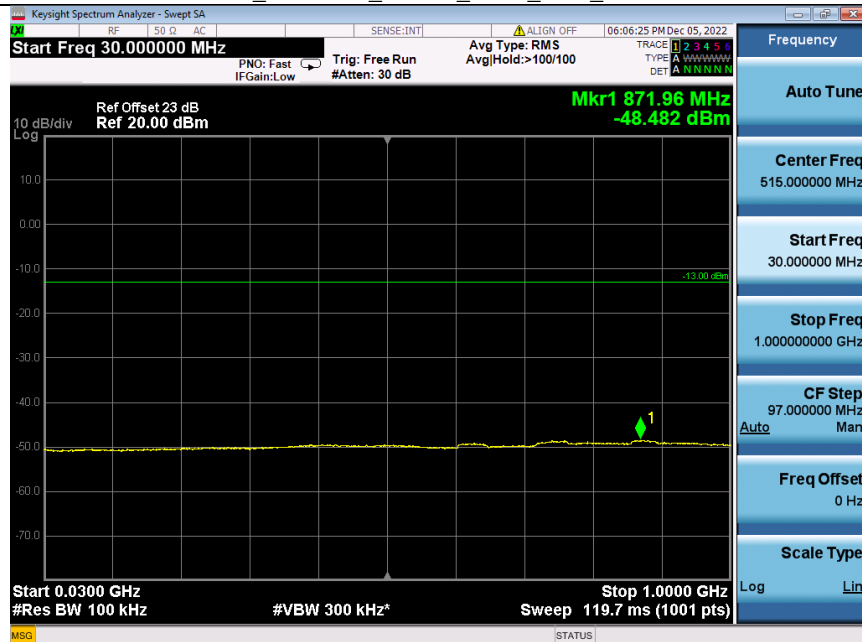
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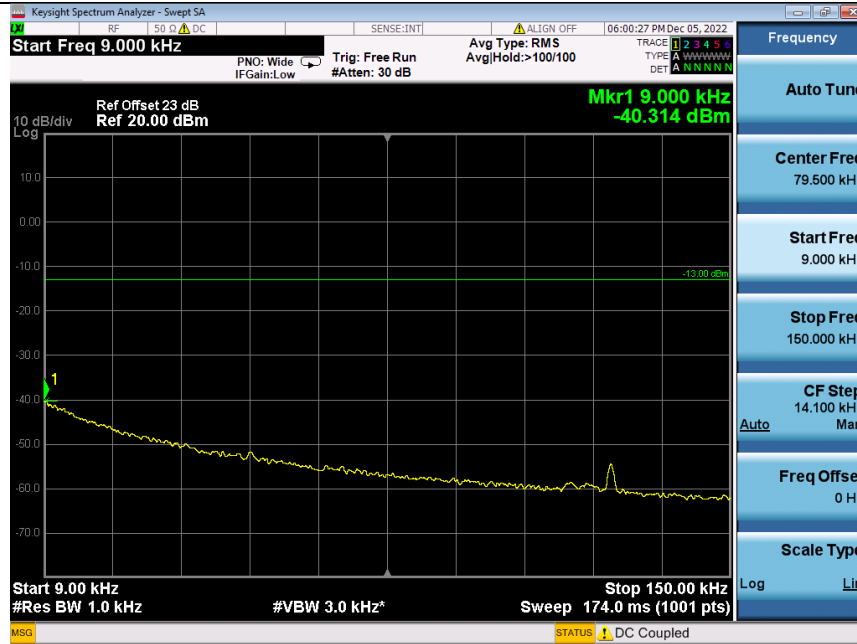
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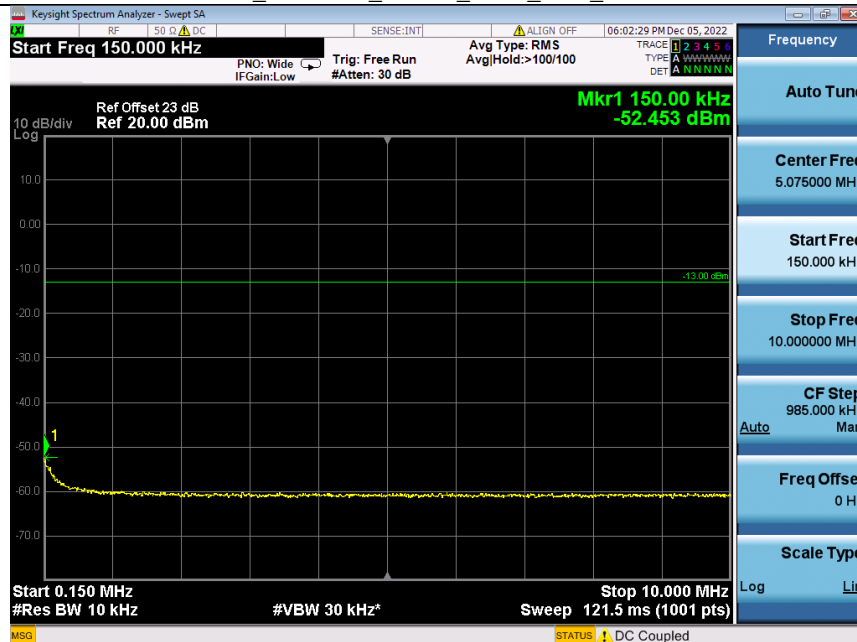
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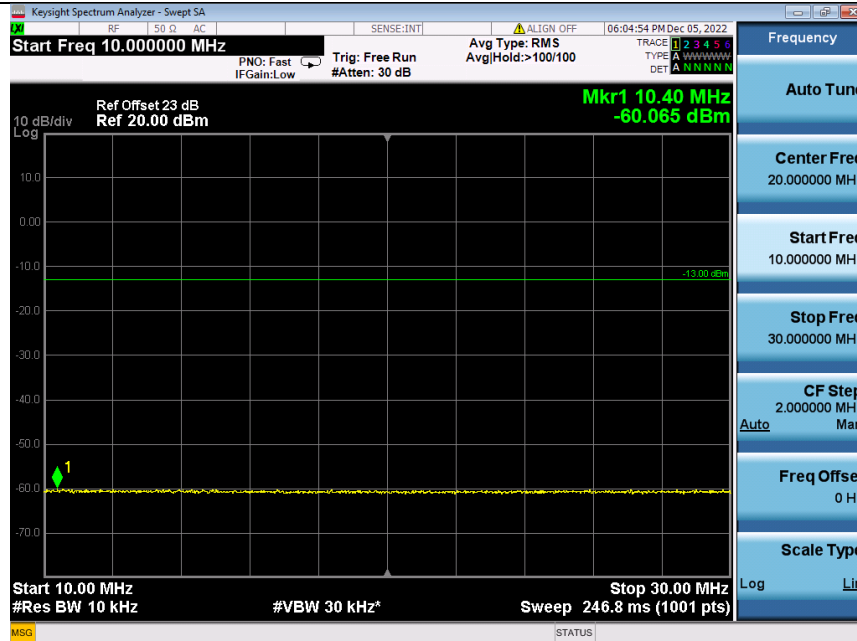
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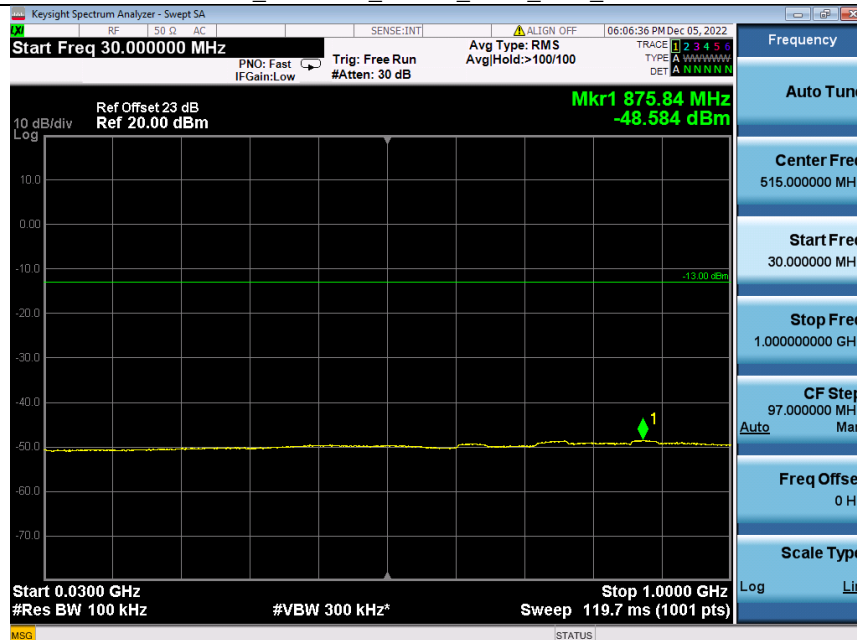
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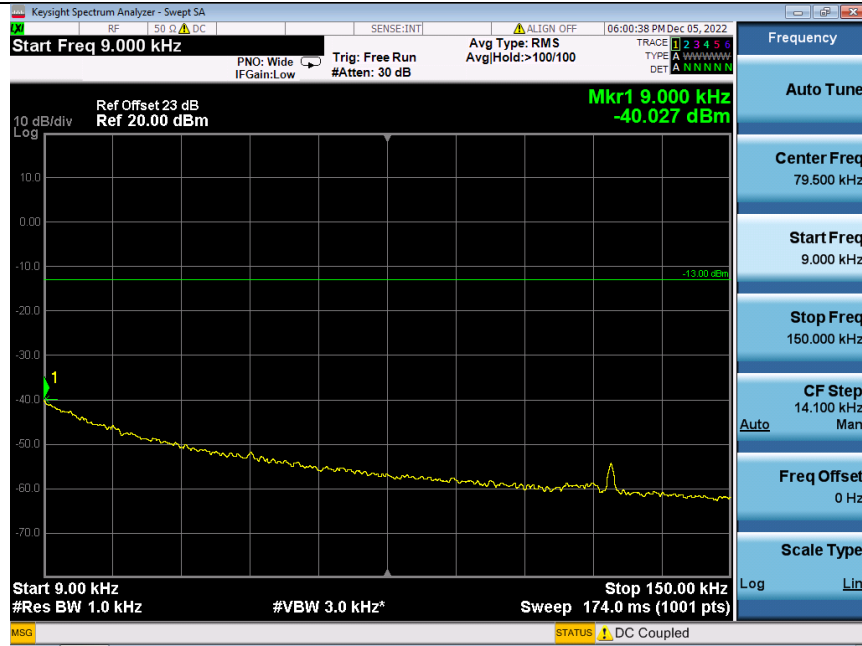
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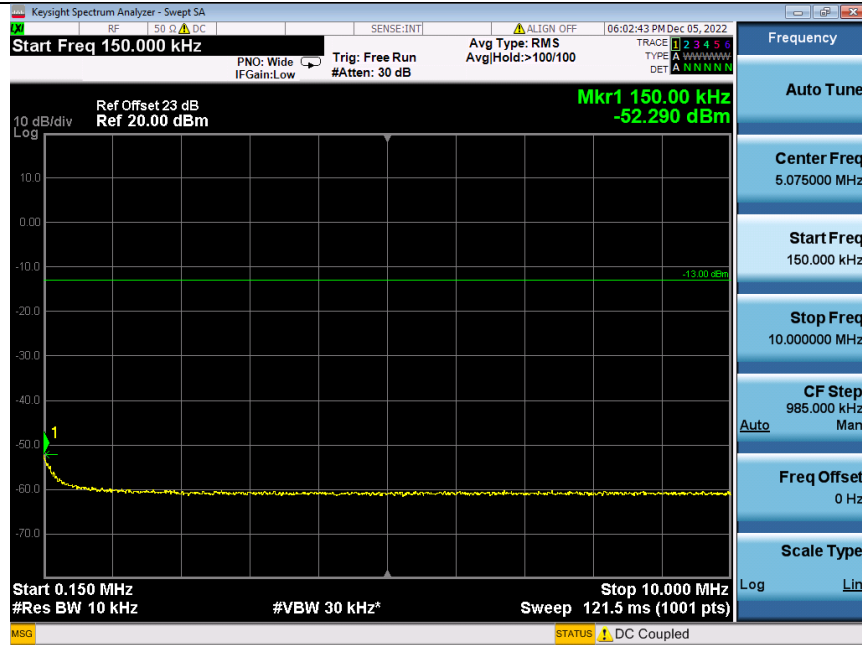
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N41_2640MHz_AWGN_SISO_Ant1_NTNV



N41_2640MHz_AWGN_SISO_Ant1_NTNV

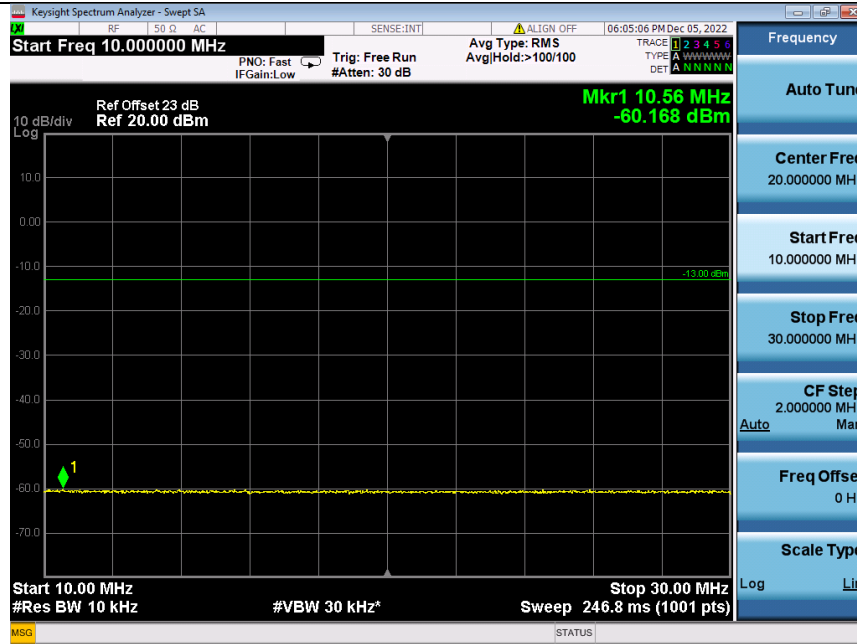


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N41_2640MHz_AWGN_SISO_Ant1_NTNV



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7. Frequency stability measurements

7.1 Band41_Ant1

7.1.1 Test Result

| Band: 41 / NTNV | | | | | | | | |
|-----------------|-------------|-----------------|-----------|---------------|------------------|-----------------|---------|------|
| Signal | | | Temp (°C) | Voltage (VAC) | Freq. Error (Hz) | Tolerance (ppm) | Verdict | |
| Type | Level (dBm) | Frequency (MHz) | | | | | | |
| CW | -0.3 | 2496.1 | 20 | 102 | 0 | 0.00 | Pass | |
| | | | | 120 | 0 | 0.00 | Pass | |
| | | | | 138 | 0 | 0.00 | Pass | |
| | | | -40 | 120 | 0 | 0.00 | Pass | |
| | | | | -30 | 120 | 0 | 0.00 | Pass |
| | | | | -20 | 120 | 0 | 0.00 | Pass |
| | | | -10 | 120 | 0 | 0.00 | Pass | |
| | | | | 0 | 120 | 0 | 0.00 | Pass |
| | | | | 10 | 120 | 0 | 0.00 | Pass |
| | | | 30 | 120 | 0 | 0.00 | Pass | |
| | | | | 40 | 120 | 0 | 0.00 | Pass |
| | | | | 55 | 120 | 0 | 0.00 | Pass |
| | | 2593 | 20 | 102 | 0 | 0.00 | Pass | |
| | | | | 120 | 0 | 0.00 | Pass | |
| | | | | 138 | 0 | 0.00 | Pass | |
| | | | -40 | 120 | 0 | 0.00 | Pass | |
| | | | | -30 | 120 | 0 | 0.00 | Pass |
| | | | | -20 | 120 | 0 | 0.00 | Pass |
| | | | -10 | 120 | 0 | 0.00 | Pass | |
| | | | | 0 | 120 | 0 | 0.00 | Pass |
| | | | | 10 | 120 | 0 | 0.00 | Pass |
| | | | 30 | 120 | 0 | 0.00 | Pass | |
| | | | | 40 | 120 | 0 | 0.00 | Pass |
| | | | | 55 | 120 | 0 | 0.00 | Pass |
| | | 2689.9 | 20 | 102 | 0 | 0.00 | Pass | |
| | | | | 120 | 0 | 0.00 | Pass | |
| | | | | 138 | 0 | 0.00 | Pass | |
| | | | -40 | 120 | 0 | 0.00 | Pass | |
| | | | | -30 | 120 | 0 | 0.00 | Pass |
| | | | | -20 | 120 | 0 | 0.00 | Pass |
| -10 | 120 | | 0 | 0.00 | Pass | | | |
| | 0 | | 120 | 0 | 0.00 | Pass | | |
| | 10 | | 120 | 0 | 0.00 | Pass | | |
| 30 | 120 | | 0 | 0.00 | Pass | | | |
| | 40 | | 120 | 0 | 0.00 | Pass | | |
| | 55 | | 120 | 0 | 0.00 | Pass | | |



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8. Radiated Spurious Emissions

8.1 Band41_Ant1

8.1.1 Test Result

For LTE Band 41

| AWGN_Low channel | | | | | |
|------------------|--|--------------|-------|------------|--------|
| Frequency | Spurious Emission Polarization and Level | | Limit | Over limit | Result |
| | MHz | polarization | | | |
| 404.5 | Horizontal | -66.81 | -13 | -53.81 | pass |
| 568.2 | Horizontal | -62.70 | -13 | -49.70 | pass |
| 931.9 | Horizontal | -56.82 | -13 | -43.82 | pass |
| 1341.9 | Horizontal | -60.66 | -13 | -47.66 | pass |
| 2744.9 | Horizontal | -51.94 | -13 | -38.94 | pass |
| 6320.4 | Horizontal | -51.87 | -13 | -38.87 | pass |
| 382.4 | Vertical | -66.41 | -13 | -53.41 | pass |
| 567.9 | Vertical | -62.83 | -13 | -49.83 | pass |
| 929.9 | Vertical | -61.79 | -13 | -48.79 | pass |
| 1359.7 | Vertical | -59.36 | -13 | -46.36 | pass |
| 2731.0 | Vertical | -51.41 | -13 | -38.41 | pass |
| 6287.1 | Vertical | -47.32 | -13 | -34.32 | pass |

| AWGN_Middle channel | | | | | |
|---------------------|--|--------------|-------|------------|--------|
| Frequency | Spurious Emission Polarization and Level | | Limit | Over limit | Result |
| | MHz | polarization | | | |
| 393.2 | Horizontal | -69.01 | -13 | -56.01 | pass |
| 560.8 | Horizontal | -64.56 | -13 | -51.56 | pass |
| 948.8 | Horizontal | -57.72 | -13 | -44.72 | pass |
| 1369.6 | Horizontal | -57.58 | -13 | -44.58 | pass |
| 2728.9 | Horizontal | -55.37 | -13 | -42.37 | pass |
| 6300.4 | Horizontal | -50.20 | -13 | -37.20 | pass |
| 375.5 | Vertical | -68.31 | -13 | -55.31 | pass |
| 588.7 | Vertical | -65.52 | -13 | -52.52 | pass |
| 950.0 | Vertical | -57.37 | -13 | -44.37 | pass |
| 1335.7 | Vertical | -57.36 | -13 | -44.36 | pass |
| 2742.5 | Vertical | -55.88 | -13 | -42.88 | pass |
| 6323.1 | Vertical | -46.86 | -13 | -33.86 | pass |

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| AWGN_High channel | | | | | |
|-------------------|--|--------------|-------|------------|--------|
| Frequency | Spurious Emission Polarization and Level | | Limit | Over limit | Result |
| | MHz | polarization | dBm | dB | |
| 377.6 | Horizontal | -66.78 | -13 | -53.78 | pass |
| 607.9 | Horizontal | -62.35 | -13 | -49.35 | pass |
| 964.5 | Horizontal | -60.57 | -13 | -47.57 | pass |
| 1337.4 | Horizontal | -56.09 | -13 | -43.09 | pass |
| 2729.5 | Horizontal | -55.33 | -13 | -42.33 | pass |
| 6310.9 | Horizontal | -49.58 | -13 | -36.58 | pass |
| 397.2 | Vertical | -68.77 | -13 | -55.77 | pass |
| 606.2 | Vertical | -66.66 | -13 | -53.66 | pass |
| 964.4 | Vertical | -59.81 | -13 | -46.81 | pass |
| 1361.8 | Vertical | -59.03 | -13 | -46.03 | pass |
| 2733.8 | Vertical | -52.44 | -13 | -39.44 | pass |
| 6286.8 | Vertical | -46.20 | -13 | -33.20 | pass |

| GMSK_Low channel | | | | | |
|------------------|--|--------------|-------|------------|--------|
| Frequency | Spurious Emission Polarization and Level | | Limit | Over limit | Result |
| | MHz | polarization | dBm | dB | |
| 371.5 | Horizontal | -70.37 | -13 | -57.37 | pass |
| 568.8 | Horizontal | -63.26 | -13 | -50.26 | pass |
| 960.0 | Horizontal | -61.70 | -13 | -48.70 | pass |
| 1330.1 | Horizontal | -58.11 | -13 | -45.11 | pass |
| 2770.9 | Horizontal | -54.05 | -13 | -41.05 | pass |
| 6278.5 | Horizontal | -51.84 | -13 | -38.84 | pass |
| 387.0 | Vertical | -67.34 | -13 | -54.34 | pass |
| 572.9 | Vertical | -61.82 | -13 | -48.82 | pass |
| 975.8 | Vertical | -57.53 | -13 | -44.53 | pass |
| 1365.3 | Vertical | -57.51 | -13 | -44.51 | pass |
| 2760.1 | Vertical | -53.27 | -13 | -40.27 | pass |
| 6297.2 | Vertical | -48.47 | -13 | -35.47 | pass |



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| GMSK_Middle channel | | | | | |
|---------------------|--|--------------|-------|------------|--------|
| Frequency | Spurious Emission Polarization and Level | | Limit | Over limit | Result |
| | MHz | polarization | | | |
| 386.9 | Horizontal | -70.94 | -13 | -57.94 | pass |
| 584.5 | Horizontal | -65.79 | -13 | -52.79 | pass |
| 947.7 | Horizontal | -58.55 | -13 | -45.55 | pass |
| 1338.8 | Horizontal | -60.56 | -13 | -47.56 | pass |
| 2762.8 | Horizontal | -55.23 | -13 | -42.23 | pass |
| 6283.4 | Horizontal | -48.91 | -13 | -35.91 | pass |
| 391.4 | Vertical | -68.05 | -13 | -55.05 | pass |
| 582.6 | Vertical | -61.59 | -13 | -48.59 | pass |
| 944.2 | Vertical | -56.85 | -13 | -43.85 | pass |
| 1334.8 | Vertical | -60.55 | -13 | -47.55 | pass |
| 2772.6 | Vertical | -52.97 | -13 | -39.97 | pass |
| 6275.7 | Vertical | -48.02 | -13 | -35.02 | pass |

| GMSK_High channel | | | | | |
|-------------------|--|--------------|-------|------------|--------|
| Frequency | Spurious Emission Polarization and Level | | Limit | Over limit | Result |
| | MHz | polarization | | | |
| 368.6 | Horizontal | -69.27 | -13 | -56.27 | pass |
| 592.7 | Horizontal | -63.39 | -13 | -50.39 | pass |
| 963.2 | Horizontal | -59.92 | -13 | -46.92 | pass |
| 1334.0 | Horizontal | -57.76 | -13 | -44.76 | pass |
| 2739.1 | Horizontal | -53.23 | -13 | -40.23 | pass |
| 6283.4 | Horizontal | -49.25 | -13 | -36.25 | pass |
| 396.3 | Vertical | -66.55 | -13 | -53.55 | pass |
| 604.5 | Vertical | -66.03 | -13 | -53.03 | pass |
| 940.9 | Vertical | -60.82 | -13 | -47.82 | pass |
| 1347.5 | Vertical | -57.73 | -13 | -44.73 | pass |
| 2748.2 | Vertical | -55.46 | -13 | -42.46 | pass |
| 6316.5 | Vertical | -48.66 | -13 | -35.66 | pass |



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For 5GNR N41

| AWGN_Low channel | | | | | |
|------------------|--|--------------|-------|------------|--------|
| Frequency | Spurious Emission Polarization and Level | | Limit | Over limit | Result |
| | MHz | polarization | | | |
| 371.9 | Horizontal | -70.62 | -13 | -57.62 | pass |
| 609.8 | Horizontal | -65.60 | -13 | -52.60 | pass |
| 960.8 | Horizontal | -57.23 | -13 | -44.23 | pass |
| 1350.3 | Horizontal | -59.47 | -13 | -46.47 | pass |
| 2752.4 | Horizontal | -54.47 | -13 | -41.47 | pass |
| 6321.3 | Horizontal | -47.51 | -13 | -34.51 | pass |
| 379.7 | Vertical | -66.11 | -13 | -53.11 | pass |
| 567.4 | Vertical | -65.62 | -13 | -52.62 | pass |
| 965.1 | Vertical | -61.35 | -13 | -48.35 | pass |
| 1360.0 | Vertical | -57.19 | -13 | -44.19 | pass |
| 2750.9 | Vertical | -54.98 | -13 | -41.98 | pass |
| 6280.8 | Vertical | -50.36 | -13 | -37.36 | pass |

| AWGN_Middle channel | | | | | |
|---------------------|--|--------------|-------|------------|--------|
| Frequency | Spurious Emission Polarization and Level | | Limit | Over limit | Result |
| | MHz | polarization | | | |
| 364.0 | Horizontal | -66.98 | -13 | -53.98 | pass |
| 604.3 | Horizontal | -64.21 | -13 | -51.21 | pass |
| 974.4 | Horizontal | -61.41 | -13 | -48.41 | pass |
| 1334.0 | Horizontal | -59.33 | -13 | -46.33 | pass |
| 2762.3 | Horizontal | -56.47 | -13 | -43.47 | pass |
| 6287.6 | Horizontal | -51.10 | -13 | -38.10 | pass |
| 399.8 | Vertical | -71.45 | -13 | -58.45 | pass |
| 603.1 | Vertical | -64.02 | -13 | -51.02 | pass |
| 950.0 | Vertical | -61.55 | -13 | -48.55 | pass |
| 1373.5 | Vertical | -58.80 | -13 | -45.80 | pass |
| 2736.3 | Vertical | -53.84 | -13 | -40.84 | pass |
| 6324.9 | Vertical | -46.25 | -13 | -33.25 | pass |



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| AWGN_High channel | | | | | |
|-------------------|--|--------------|-------|------------|--------|
| Frequency | Spurious Emission Polarization and Level | | Limit | Over limit | Result |
| | MHz | polarization | dBm | dB | |
| 369.3 | Horizontal | -68.41 | -13 | -55.41 | pass |
| 587.8 | Horizontal | -62.26 | -13 | -49.26 | pass |
| 937.3 | Horizontal | -57.64 | -13 | -44.64 | pass |
| 1346.3 | Horizontal | -60.20 | -13 | -47.20 | pass |
| 2735.5 | Horizontal | -52.72 | -13 | -39.72 | pass |
| 6321.2 | Horizontal | -47.51 | -13 | -34.51 | pass |
| 358.9 | Vertical | -70.71 | -13 | -57.71 | pass |
| 588.5 | Vertical | -63.20 | -13 | -50.20 | pass |
| 942.3 | Vertical | -60.03 | -13 | -47.03 | pass |
| 1329.3 | Vertical | -59.19 | -13 | -46.19 | pass |
| 2744.7 | Vertical | -56.56 | -13 | -43.56 | pass |
| 6311.8 | Vertical | -49.78 | -13 | -36.78 | pass |



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