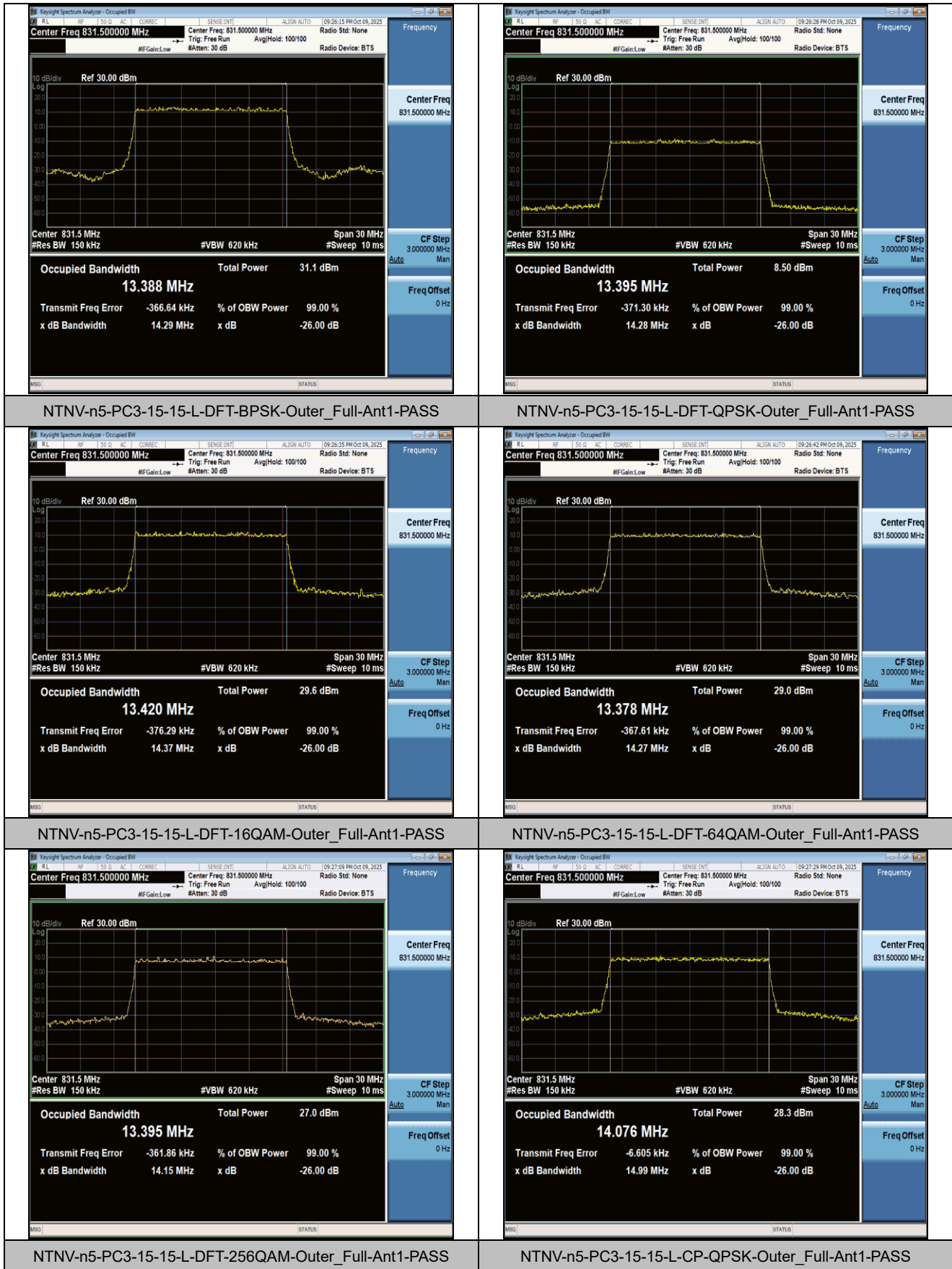
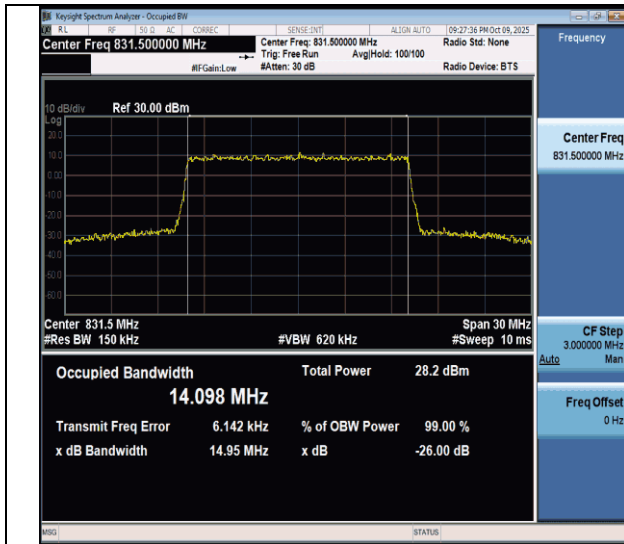
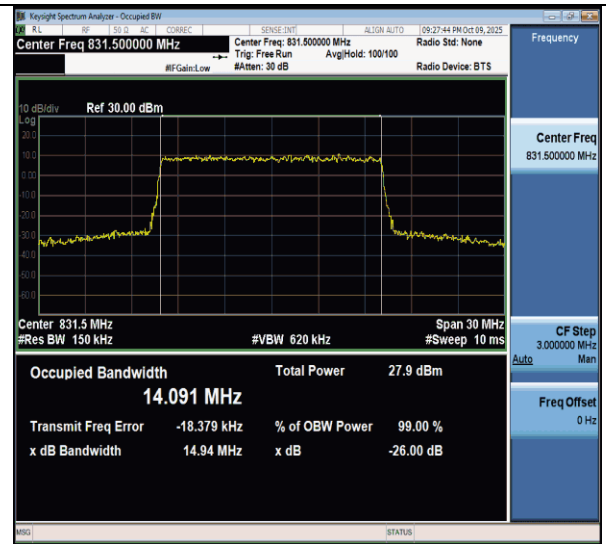


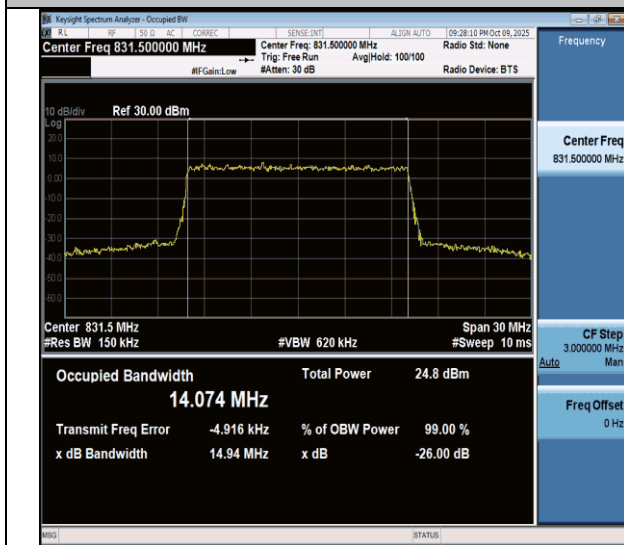




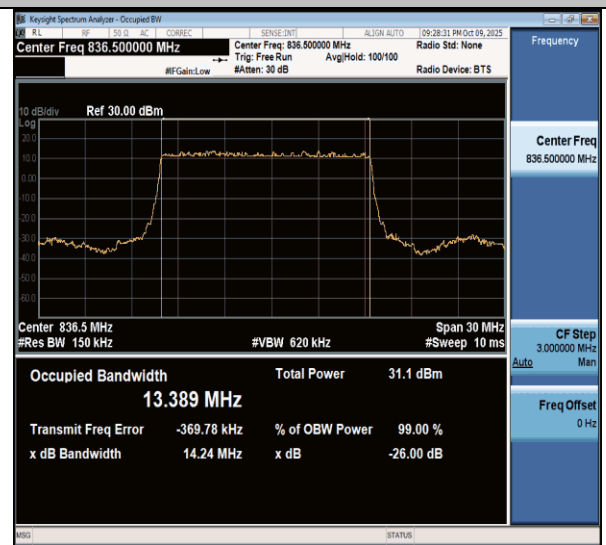
NTNV-n5-PC3-15-15-L-CP-16QAM-Outer\_Full-Ant1-PASS



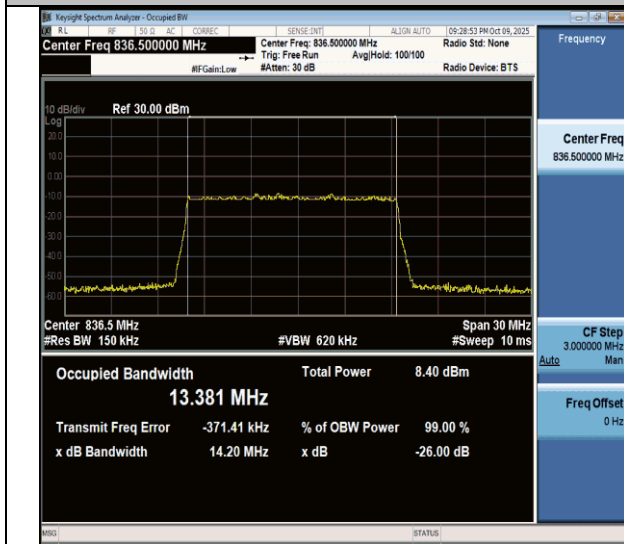
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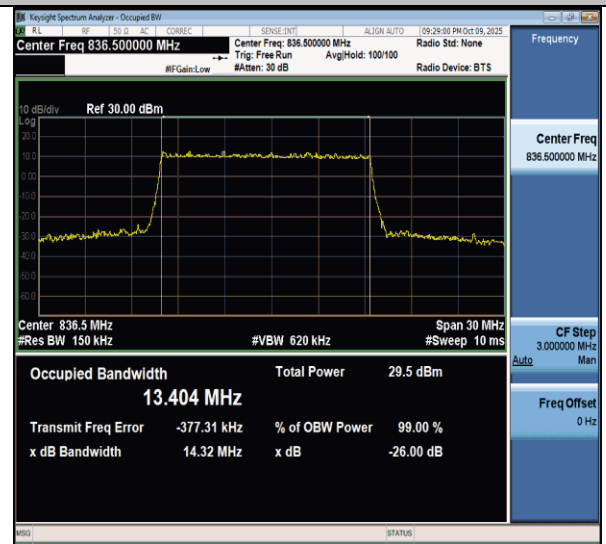
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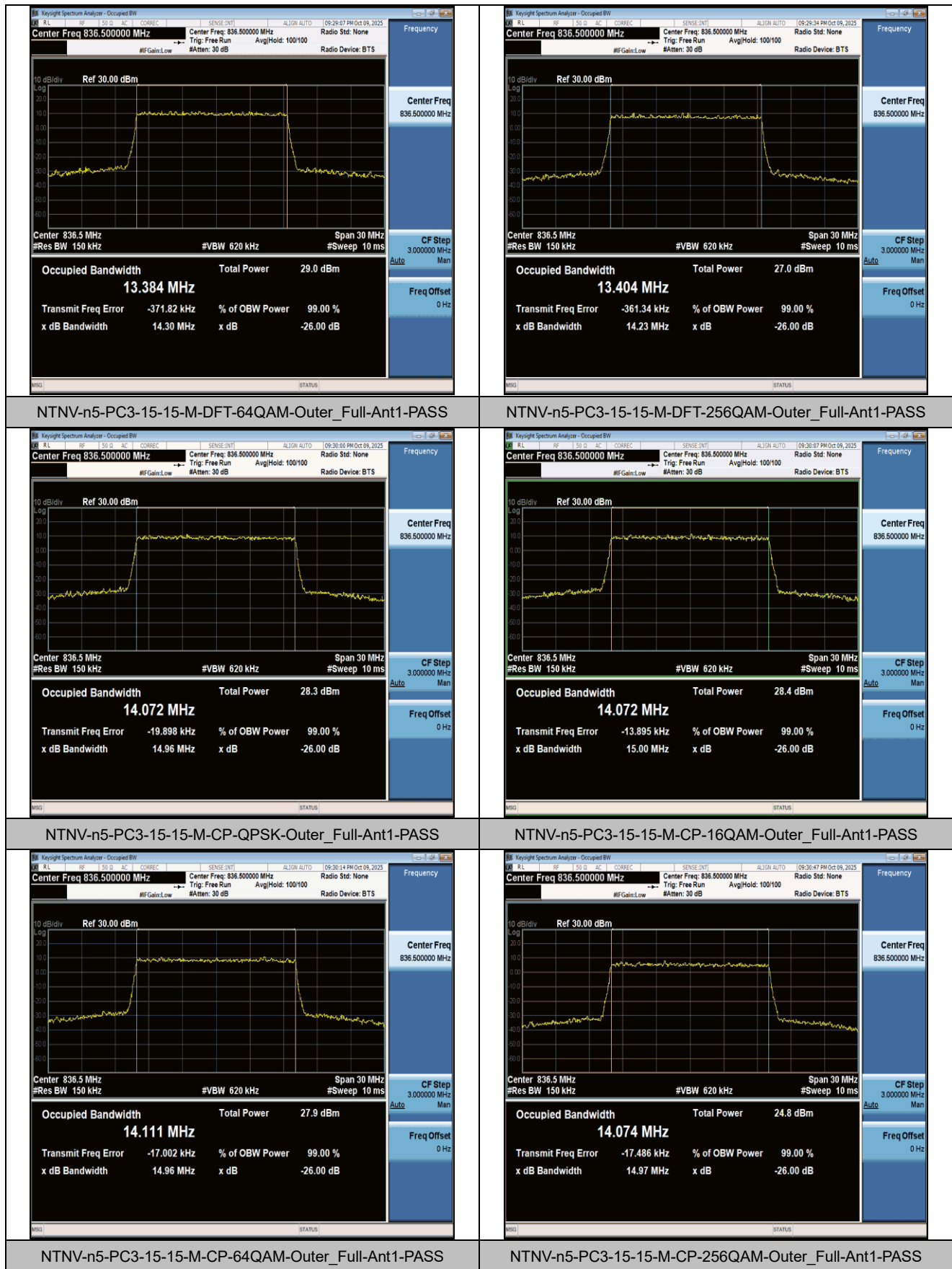
NTNV-n5-PC3-15-15-M-DFT-BPSK-Outer\_Full-Ant1-PASS



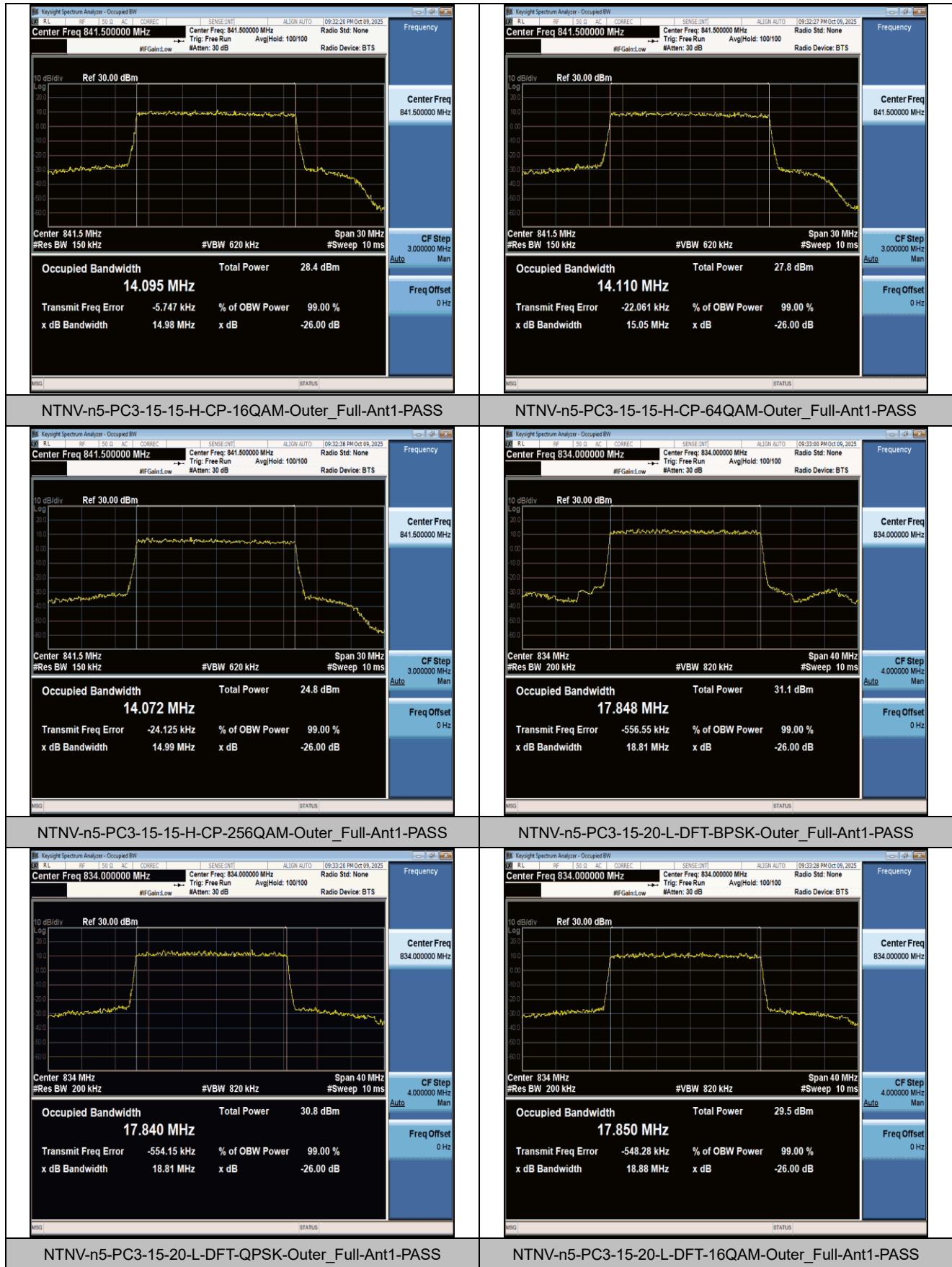
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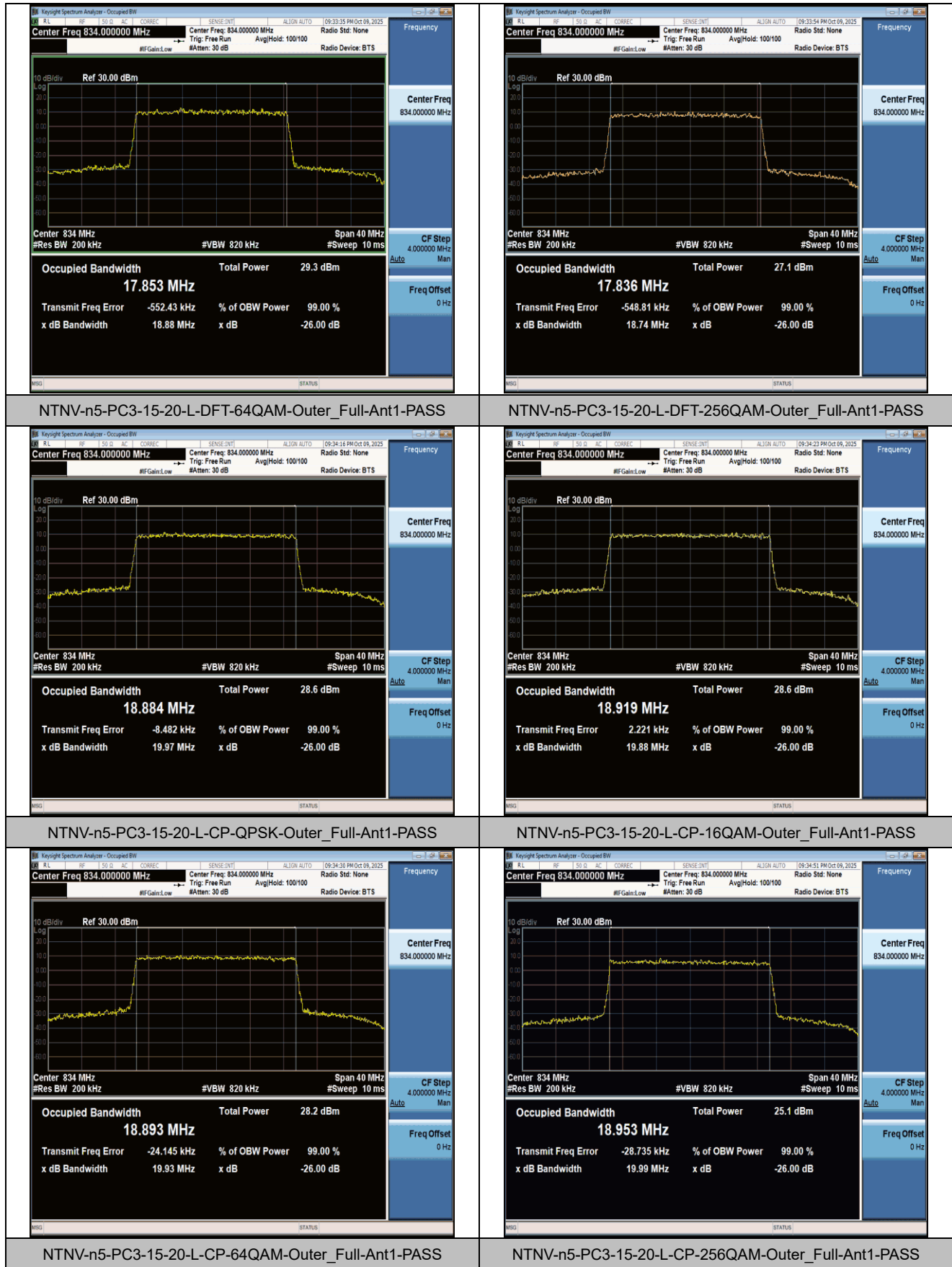


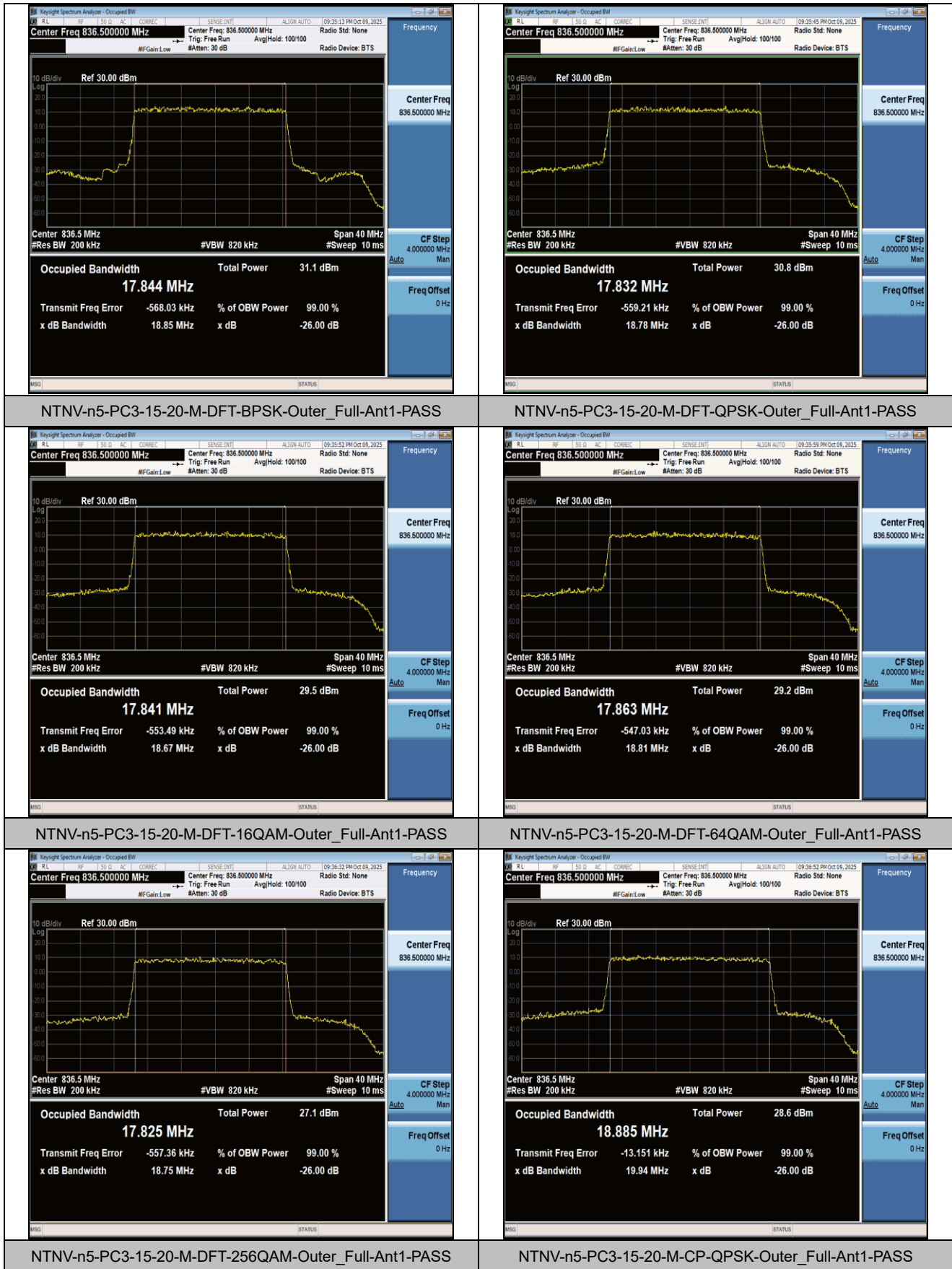
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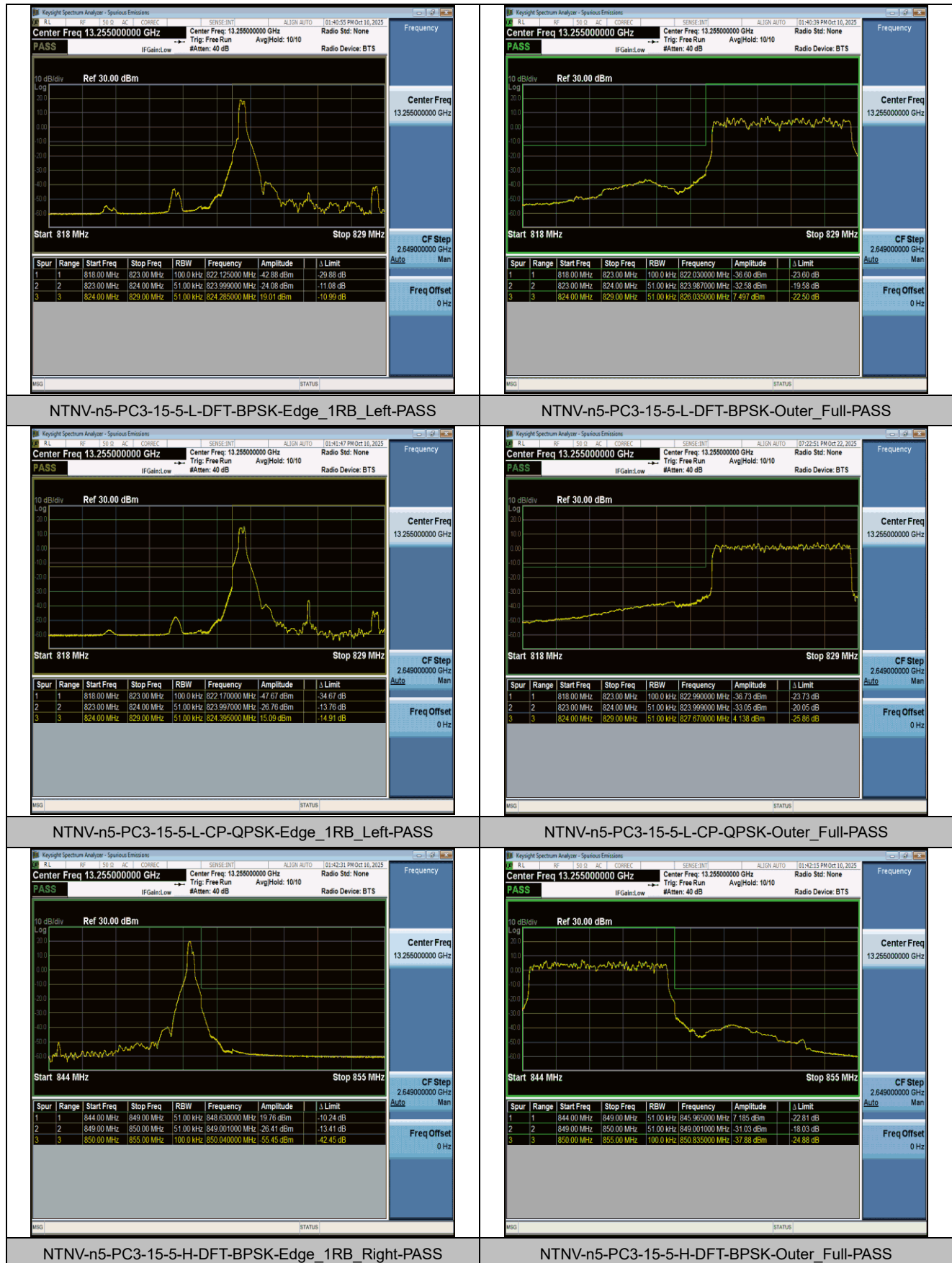


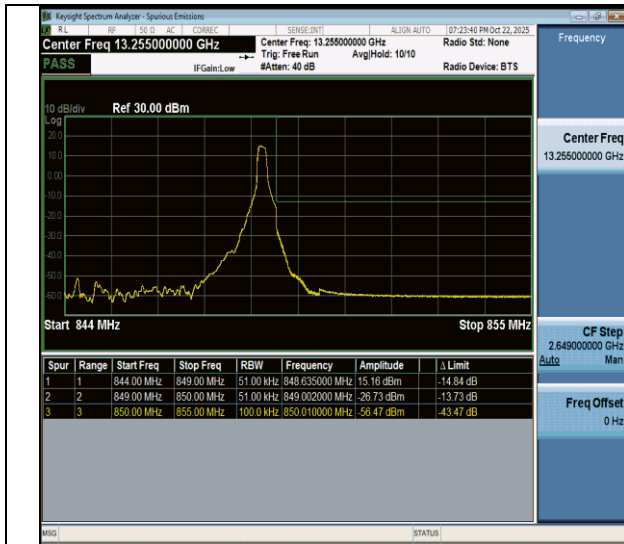




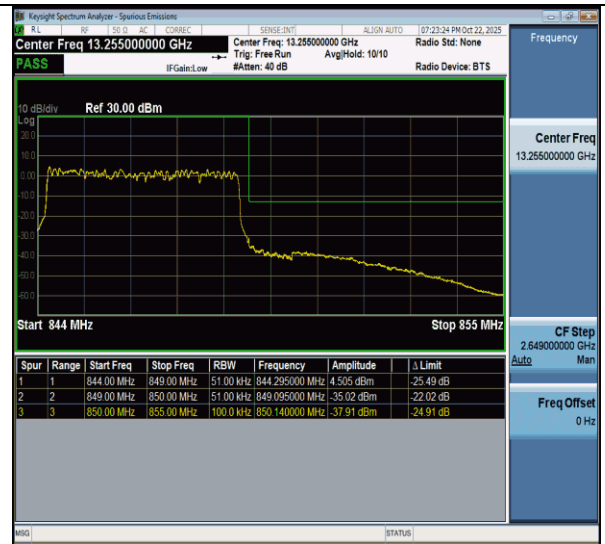
## Band Edge for SA

## Test Graphs

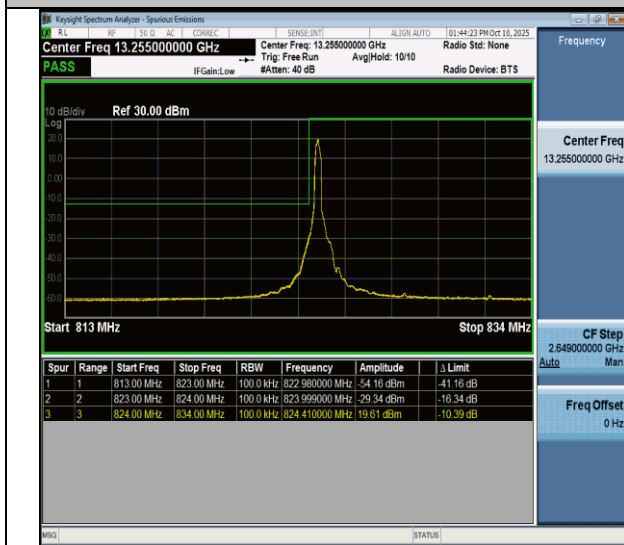




NTNV-n5-PC3-15-5-H-CP-QPSK-Edge\_1RB\_Right-PASS



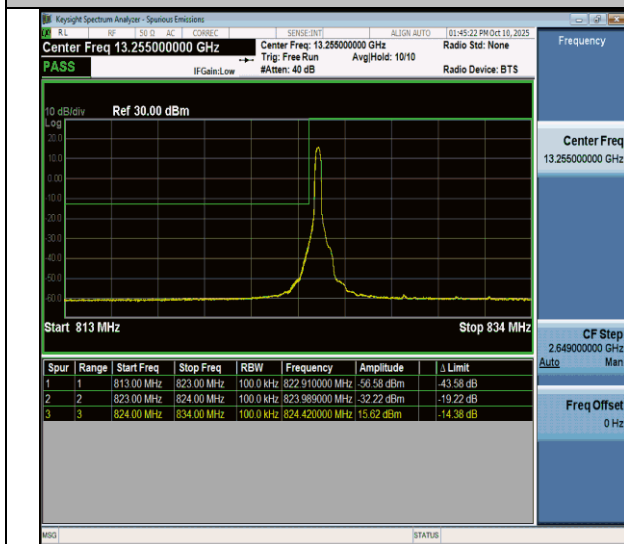
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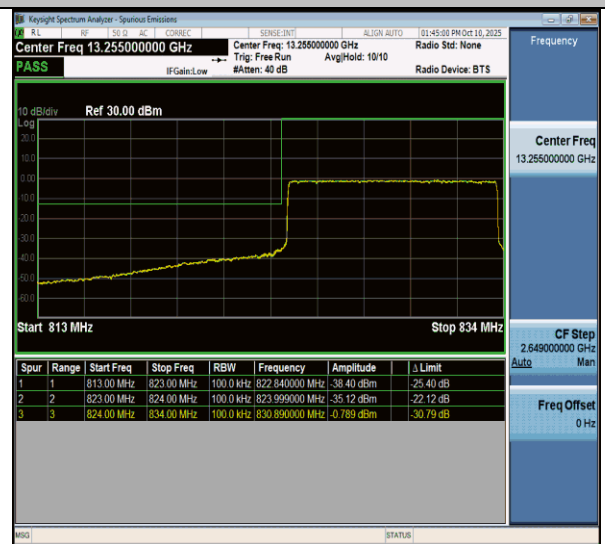
NTNV-n5-PC3-15-10-L-DFT-BPSK-Edge\_1RB\_Left-PASS



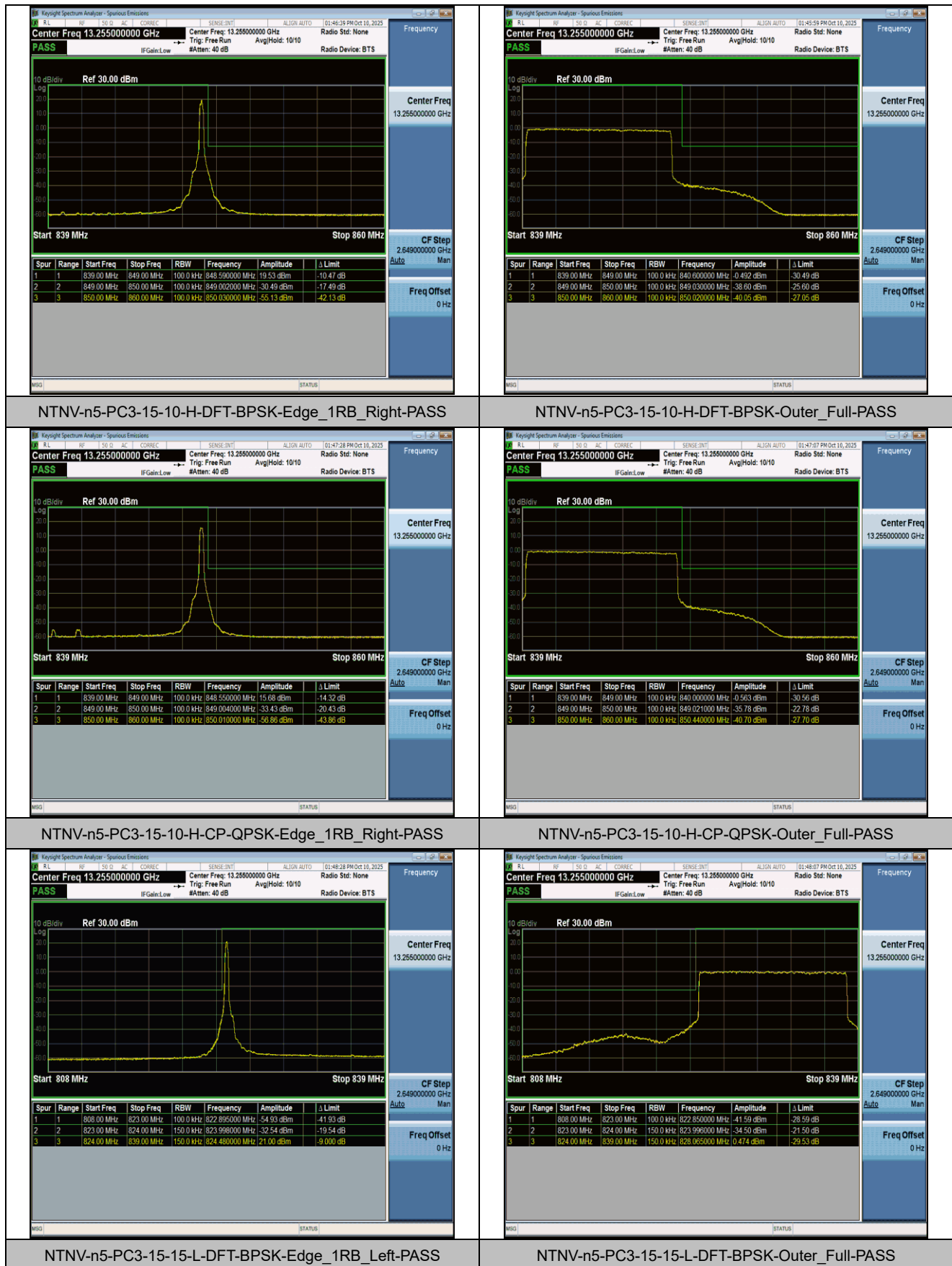
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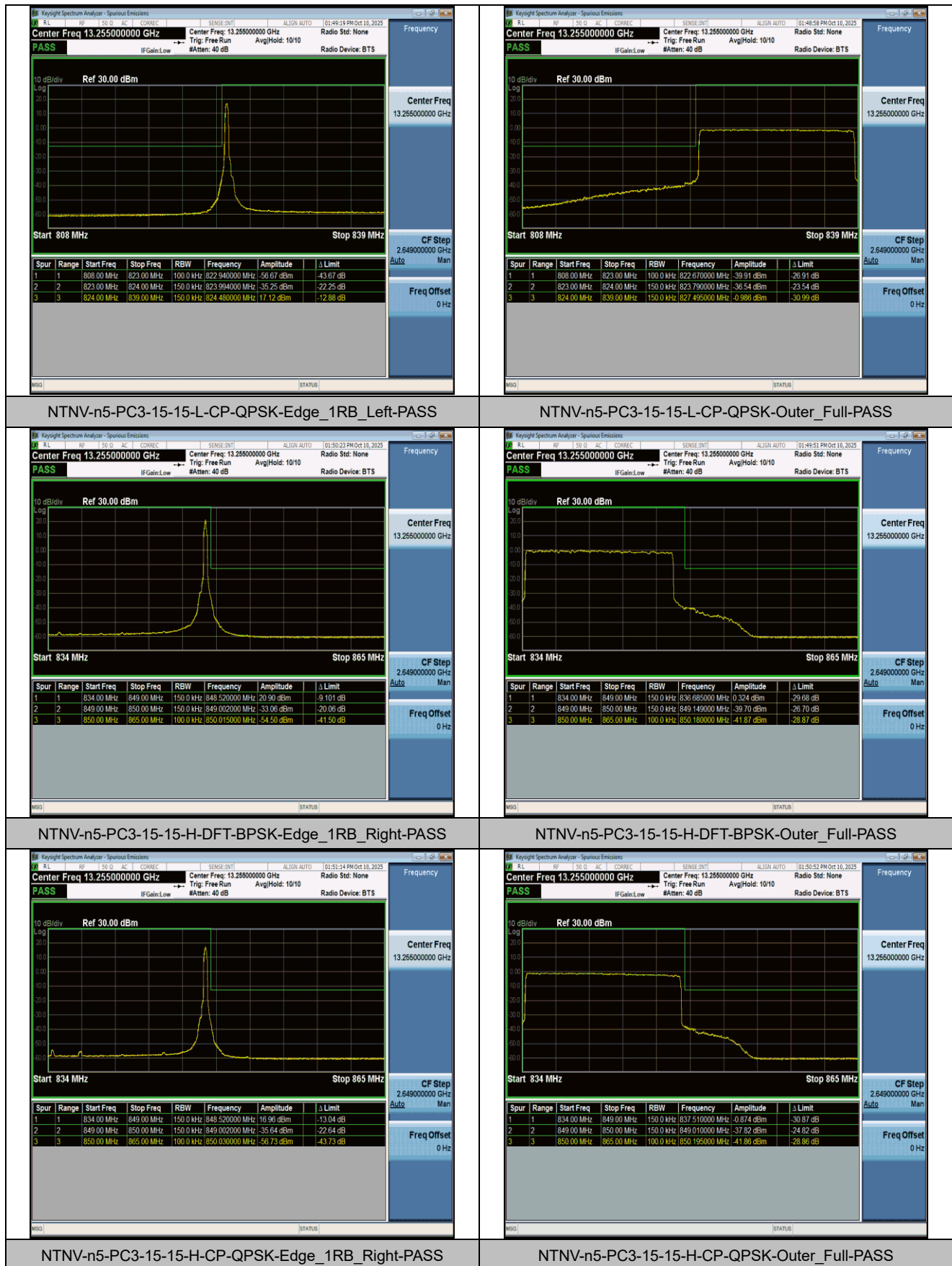


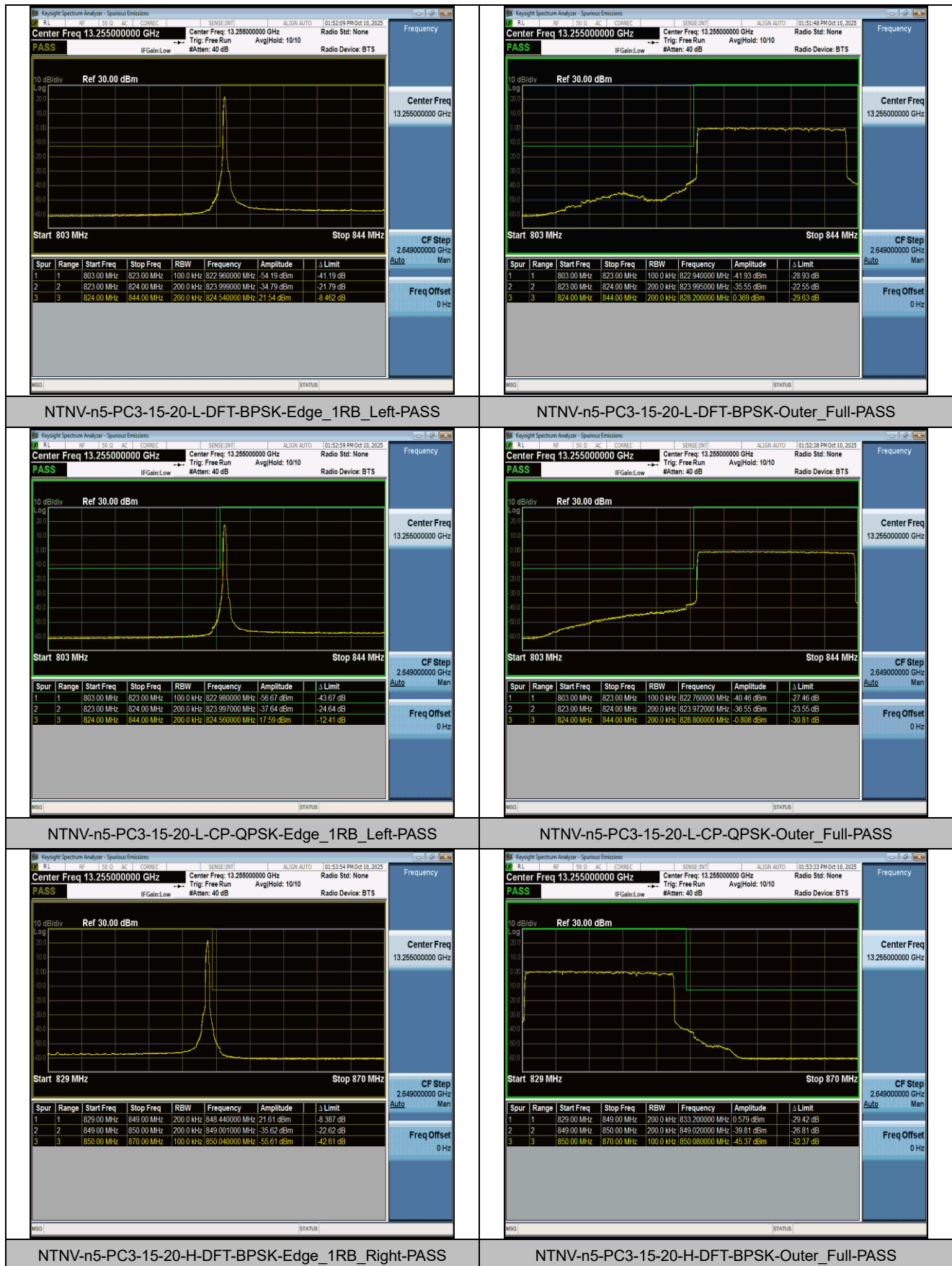
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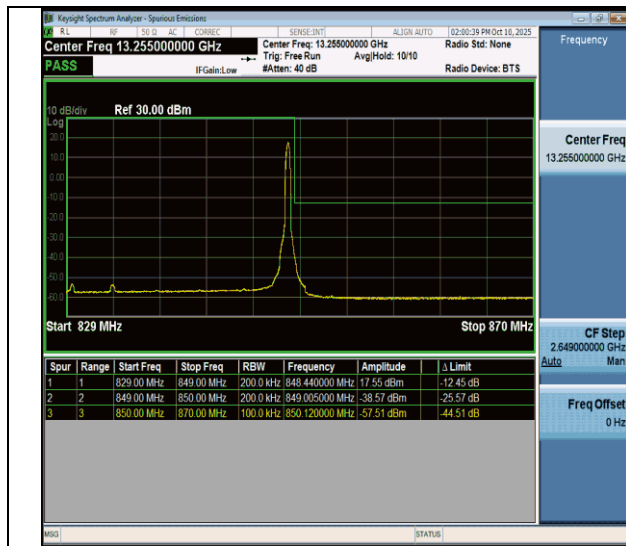


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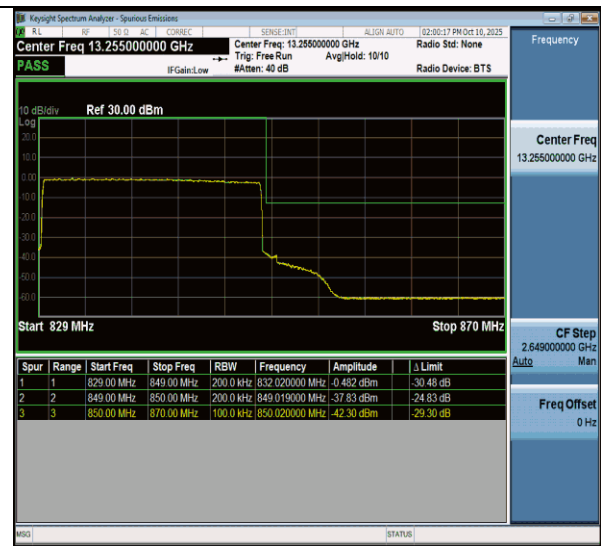








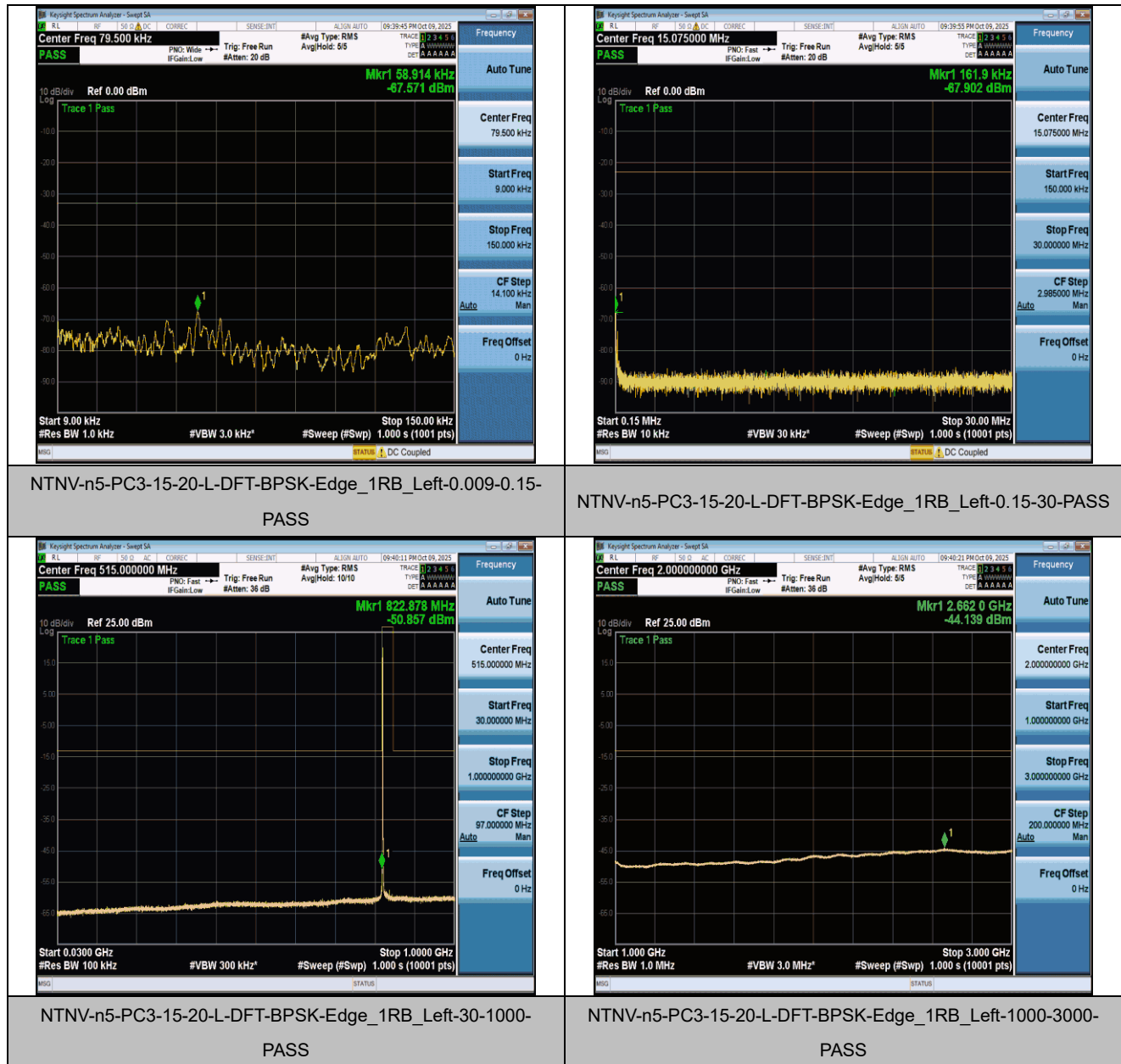
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NTVN-n5-PC3-15-20-H-CP-QPSK-Outer\_Full-PASS

## Conducted Spurious Emission for SA

## Test Graphs

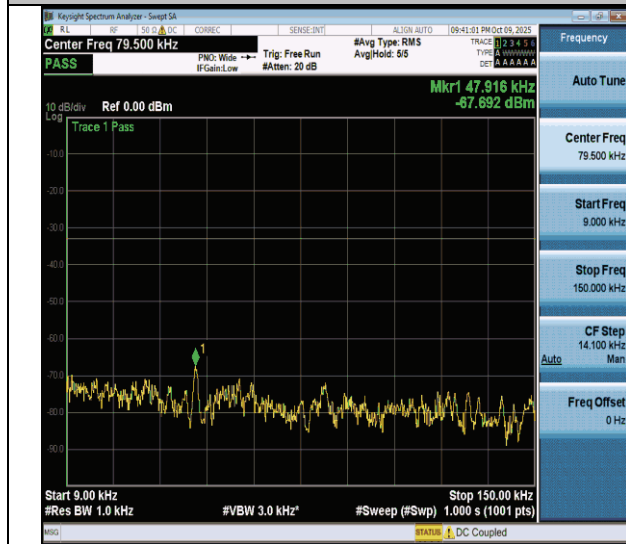




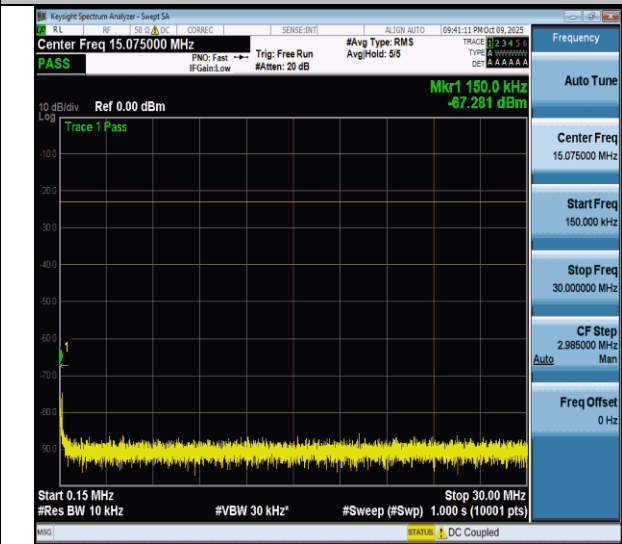
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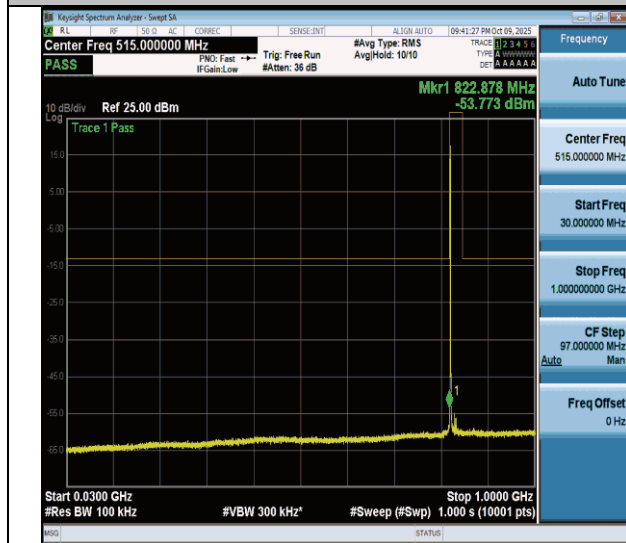
NTNV-n5-PC3-15-20-L-DFT-BPSK-Edge\_1RB\_Left-12000-20000-PASS



NTNV-n5-PC3-15-20-L-CP-QPSK-Edge\_1RB\_Left-0.009-0.15-PASS



NTNV-n5-PC3-15-20-L-CP-QPSK-Edge\_1RB\_Left-0.15-30-PASS



NTNV-n5-PC3-15-20-L-CP-QPSK-Edge\_1RB\_Left-30-1000-PASS



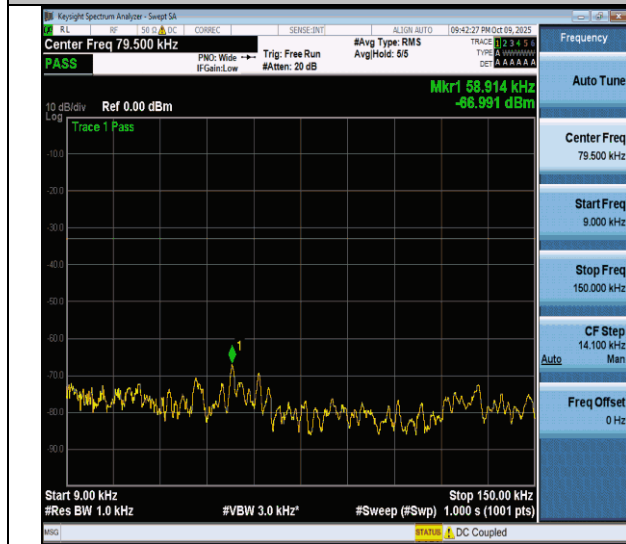
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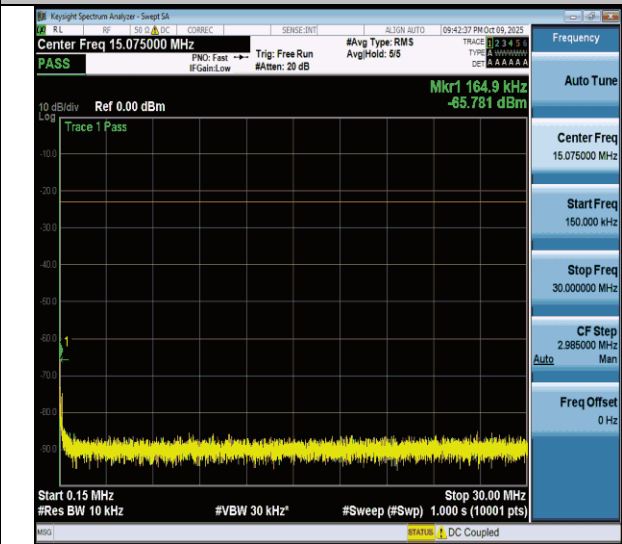
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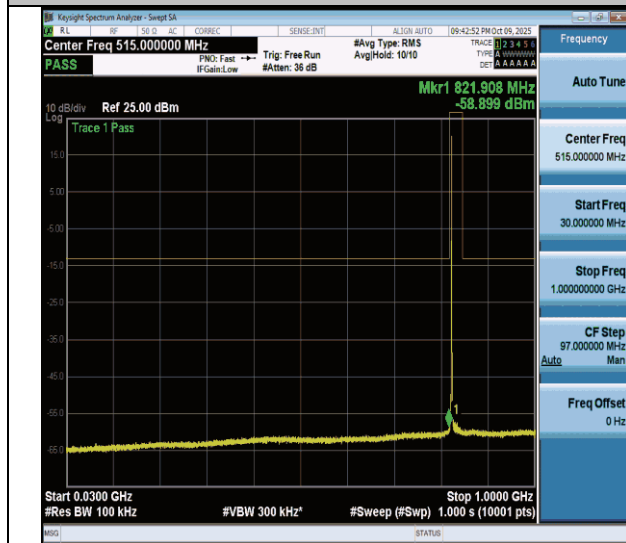
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NTNV-n5-PC3-15-20-M-DFT-BPSK-Edge\_1RB\_Left-0.009-0.15-PASS



NTNV-n5-PC3-15-20-M-DFT-BPSK-Edge\_1RB\_Left-0.15-30-PASS



NTNV-n5-PC3-15-20-M-DFT-BPSK-Edge\_1RB\_Left-30-1000-PASS



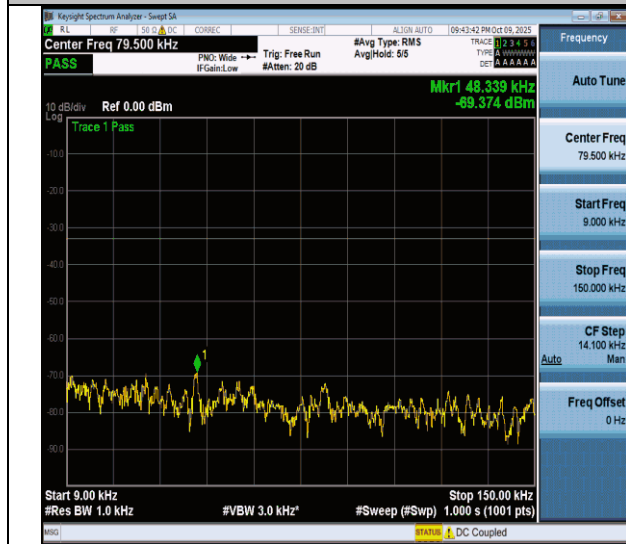
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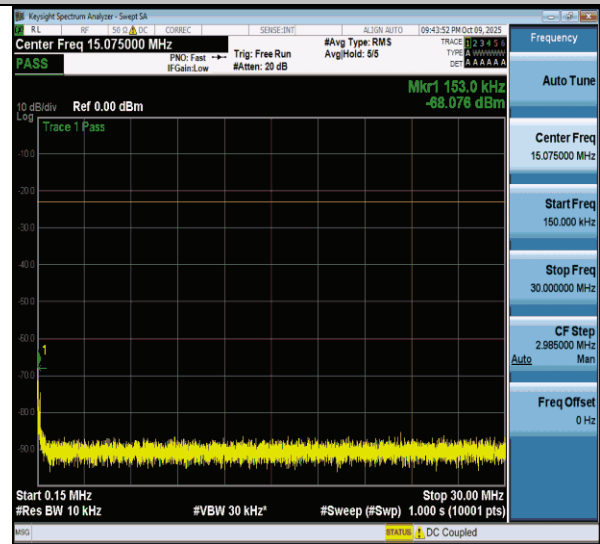
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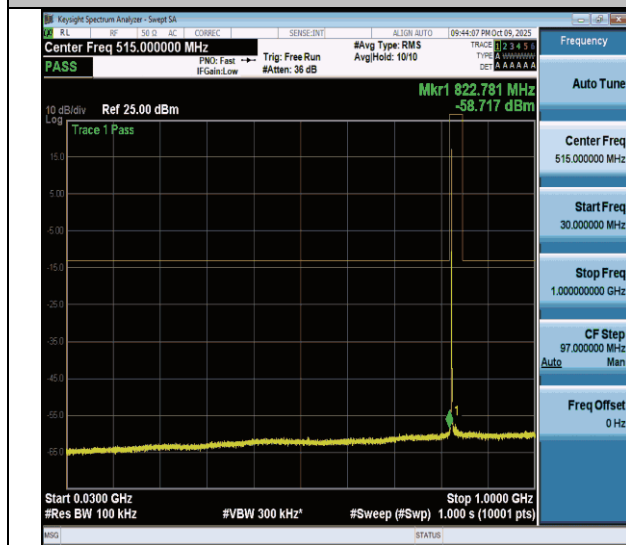
NTNV-n5-PC3-15-20-M-DFT-BPSK-Edge\_1RB\_Left-12000-20000-PASS



NTNV-n5-PC3-15-20-M-CP-QPSK-Edge\_1RB\_Left-0.009-0.15-PASS



NTNV-n5-PC3-15-20-M-CP-QPSK-Edge\_1RB\_Left-0.15-30-PASS



NTNV-n5-PC3-15-20-M-CP-QPSK-Edge\_1RB\_Left-30-1000-PASS



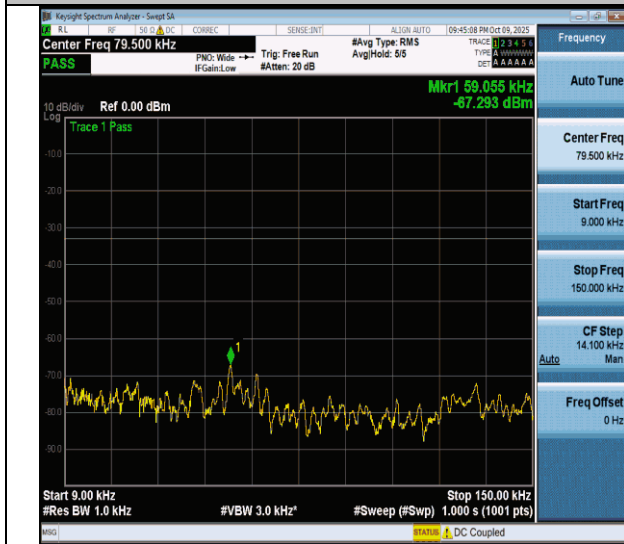
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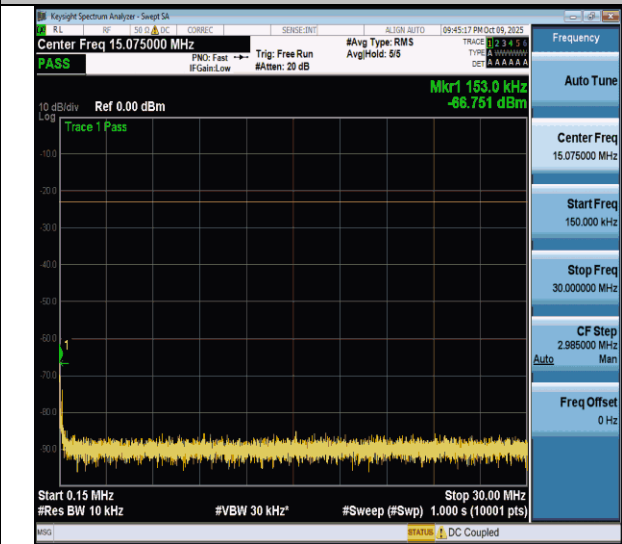
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PASS



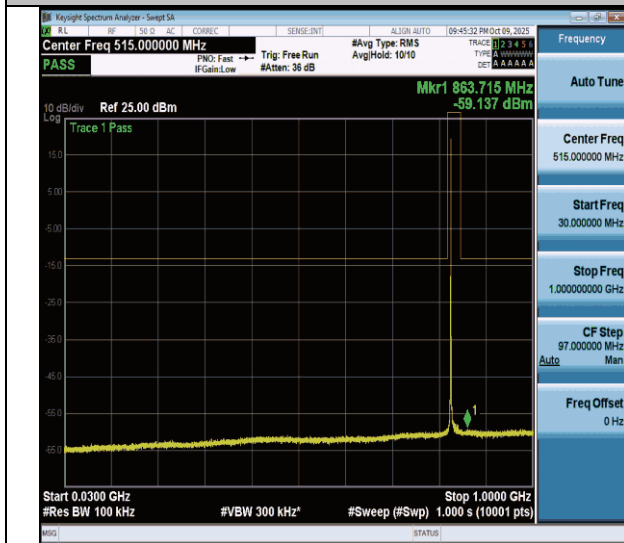
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NTNV-n5-PC3-15-20-H-DFT-BPSK-Edge\_1RB\_Left-0.009-0.15-  
PASS



NTNV-n5-PC3-15-20-H-DFT-BPSK-Edge\_1RB\_Left-0.15-30-  
PASS



NTNV-n5-PC3-15-20-H-DFT-BPSK-Edge\_1RB\_Left-30-1000-  
PASS



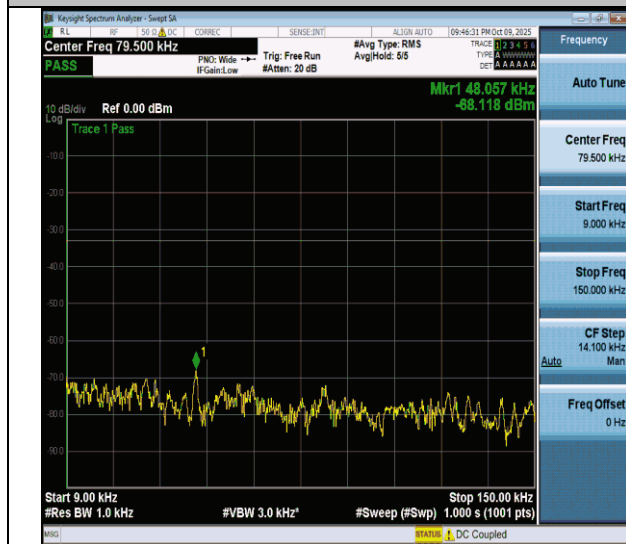
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PASS



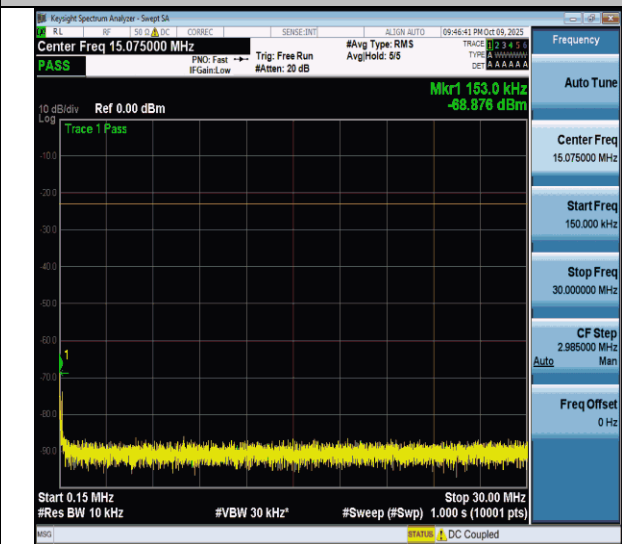
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NTNV-n5-PC3-15-20-H-DFT-BPSK-Edge\_1RB\_Left-12000-20000-PASS



NTNV-n5-PC3-15-20-H-CP-QPSK-Edge\_1RB\_Left-0.009-0.15-PASS



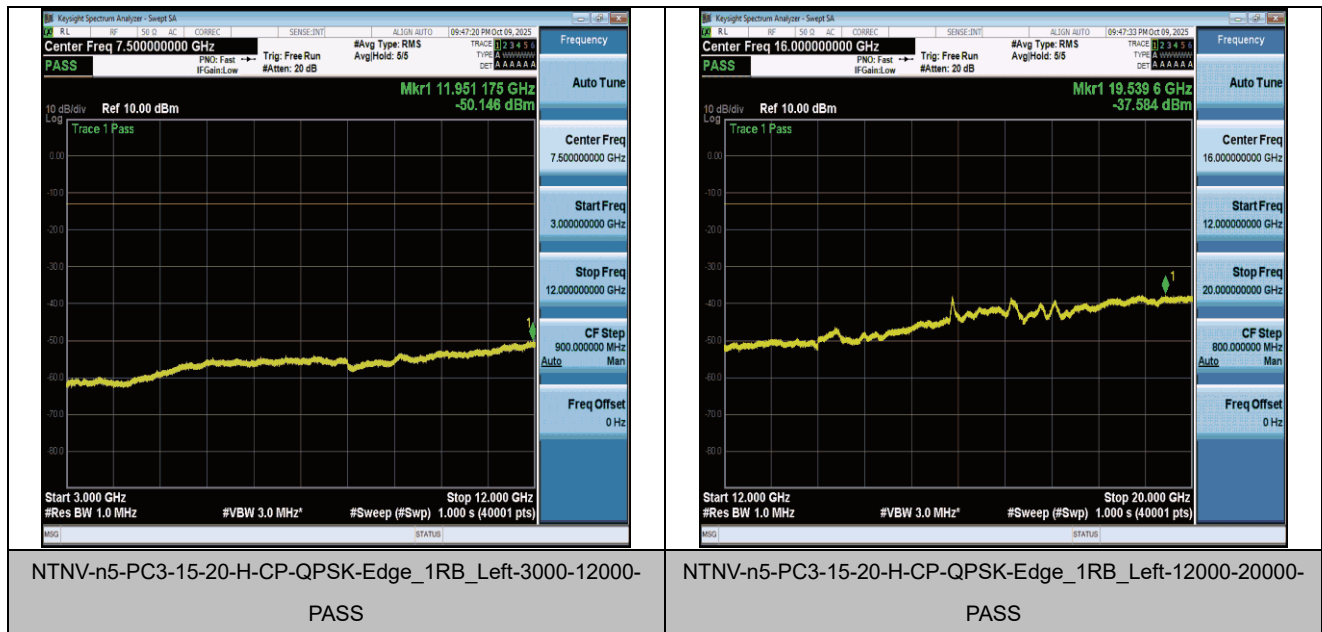
NTNV-n5-PC3-15-20-H-CP-QPSK-Edge\_1RB\_Left-0.15-30-PASS



NTNV-n5-PC3-15-20-H-CP-QPSK-Edge\_1RB\_Left-30-1000-PASS



NTNV-n5-PC3-15-20-H-CP-QPSK-Edge\_1RB\_Left-1000-3000-PASS



## Frequency Stability for SA

### Test Result

#### Frequency Error VS. Voltage

| Voltage |     |           |            |         |            |         |      |                |                 |             |         |
|---------|-----|-----------|------------|---------|------------|---------|------|----------------|-----------------|-------------|---------|
| Band    | SCS | Bandwidth | Modulation | Channel | RB Config  | Voltage | Temp | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| n5      | 15  | 20        | DFT-BPSK   | M       | Outer_Full | VL      | NT   | -4.4           | -0.00526        | ±2.5        | PASS    |
| n5      | 15  | 20        | DFT-BPSK   | M       | Outer_Full | VN      | NT   | -2.2           | -0.00263        | ±2.5        | PASS    |
| n5      | 15  | 20        | DFT-BPSK   | M       | Outer_Full | VH      | NT   | -4.4           | -0.00526        | ±2.5        | PASS    |
| n5      | 15  | 20        | CP-QPSK    | M       | Outer_Full | VL      | NT   | -3.4           | -0.004065       | ±2.5        | PASS    |
| n5      | 15  | 20        | CP-QPSK    | M       | Outer_Full | VN      | NT   | -2             | -0.002391       | ±2.5        | PASS    |
| n5      | 15  | 20        | CP-QPSK    | M       | Outer_Full | VH      | NT   | -4.3           | -0.00514        | ±2.5        | PASS    |

#### Frequency Error VS. Temperature

| Temperature |     |           |            |         |            |         |      |                |                 |             |         |
|-------------|-----|-----------|------------|---------|------------|---------|------|----------------|-----------------|-------------|---------|
| Band        | SCS | Bandwidth | Modulation | Channel | RB Config  | Voltage | Temp | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| n5          | 15  | 20        | DFT-BPSK   | M       | Outer_Full | NV      | -30  | -4.2           | -0.005021       | ±2.5        | PASS    |
| n5          | 15  | 20        | DFT-BPSK   | M       | Outer_Full | NV      | -20  | -4.1           | -0.004901       | ±2.5        | PASS    |
| n5          | 15  | 20        | DFT-BPSK   | M       | Outer_Full | NV      | -10  | -4.9           | -0.005858       | ±2.5        | PASS    |
| n5          | 15  | 20        | DFT-BPSK   | M       | Outer_Full | NV      | 0    | -5.2           | -0.006216       | ±2.5        | PASS    |
| n5          | 15  | 20        | DFT-BPSK   | M       | Outer_Full | NV      | 10   | -4.3           | -0.00514        | ±2.5        | PASS    |
| n5          | 15  | 20        | DFT-BPSK   | M       | Outer_Full | NV      | 20   | -6.5           | -0.00777        | ±2.5        | PASS    |
| n5          | 15  | 20        | DFT-BPSK   | M       | Outer_Full | NV      | 30   | -4.3           | -0.00514        | ±2.5        | PASS    |
| n5          | 15  | 20        | DFT-BPSK   | M       | Outer_Full | NV      | 40   | -6.5           | -0.00777        | ±2.5        | PASS    |
| n5          | 15  | 20        | DFT-BPSK   | M       | Outer_Full | NV      | 50   | -4             | -0.004782       | ±2.5        | PASS    |
| n5          | 15  | 20        | CP-QPSK    | M       | Outer_Full | NV      | -30  | -1.8           | -0.002152       | ±2.5        | PASS    |
| n5          | 15  | 20        | CP-QPSK    | M       | Outer_Full | NV      | -20  | -3.4           | -0.004065       | ±2.5        | PASS    |
| n5          | 15  | 20        | CP-QPSK    | M       | Outer_Full | NV      | -10  | -4.9           | -0.005858       | ±2.5        | PASS    |
| n5          | 15  | 20        | CP-QPSK    | M       | Outer_Full | NV      | 0    | -2.2           | -0.00263        | ±2.5        | PASS    |
| n5          | 15  | 20        | CP-QPSK    | M       | Outer_Full | NV      | 10   | -5.1           | -0.006097       | ±2.5        | PASS    |
| n5          | 15  | 20        | CP-QPSK    | M       | Outer_Full | NV      | 20   | -4.4           | -0.00526        | ±2.5        | PASS    |
| n5          | 15  | 20        | CP-QPSK    | M       | Outer_Full | NV      | 30   | -6             | -0.007173       | ±2.5        | PASS    |
| n5          | 15  | 20        | CP-QPSK    | M       | Outer_Full | NV      | 40   | -4             | -0.004782       | ±2.5        | PASS    |
| n5          | 15  | 20        | CP-QPSK    | M       | Outer_Full | NV      | 50   | -2.1           | -0.00251        | ±2.5        | PASS    |

~The End~