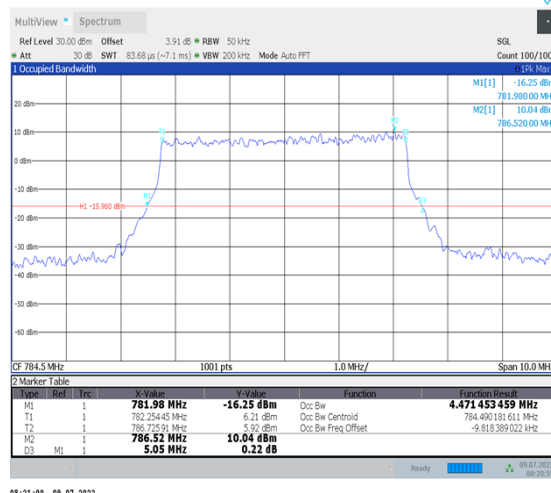
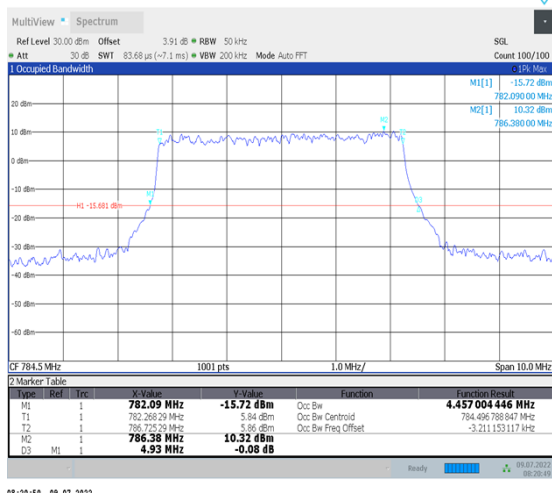


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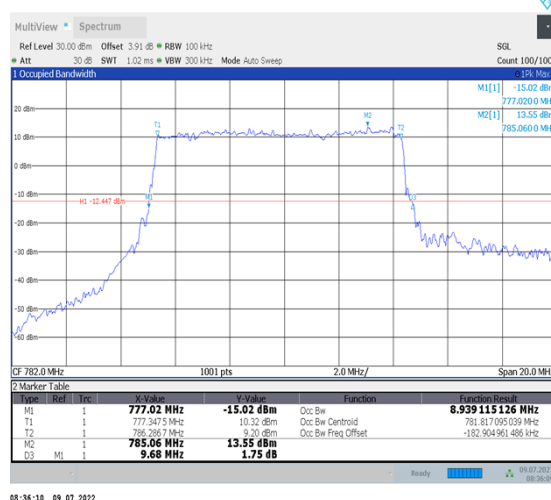
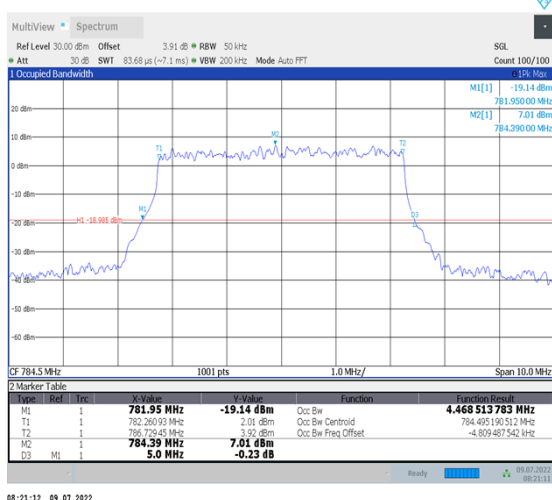
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1-N13--15-5-H-7-CP-16QAM-Outer\_Full-25@0-Ant1-4.457-4.930-≤5-PASS

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1-N13--15-5-H-9-CP-256QAM-Outer\_Full-25@0-Ant1-4.469-5.000-≤5-PASS

1-N13--15-10-M-1-DFT-QPSK-Outer\_Full-50@0-Ant1-8.939-9.680-≤10-PASS



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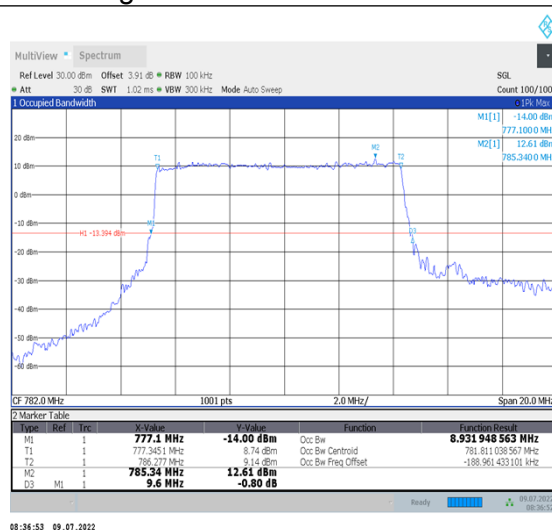
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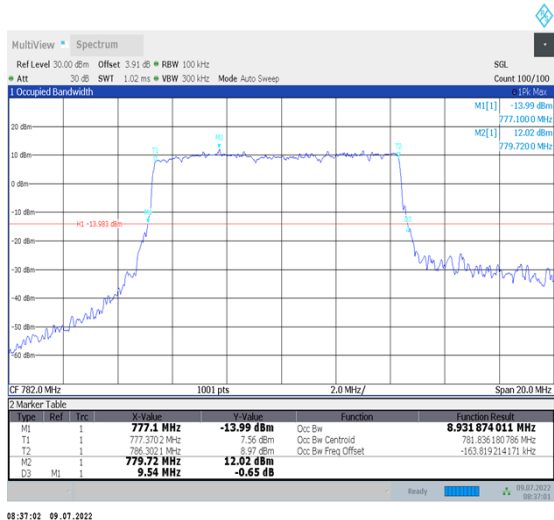
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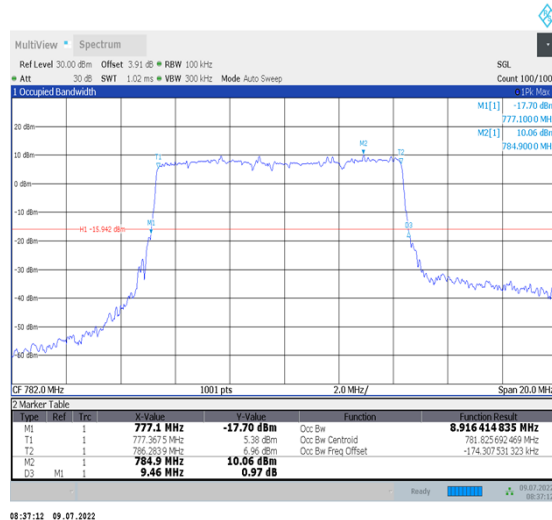
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1-N13--15-10-M-4-DFT-64QAM-Outer\_Full-50@0-Ant1-8.932-9.540-≤10-PASS



1-N13--15-10-M-5-DFT-256QAM-Outer\_Full-50@0-Ant1-8.916-9.460-≤10-PASS



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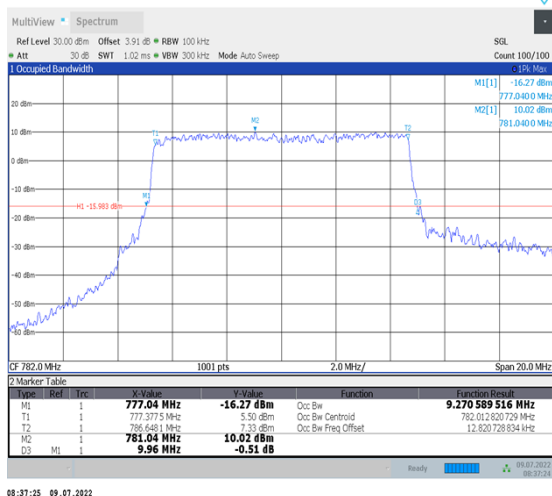
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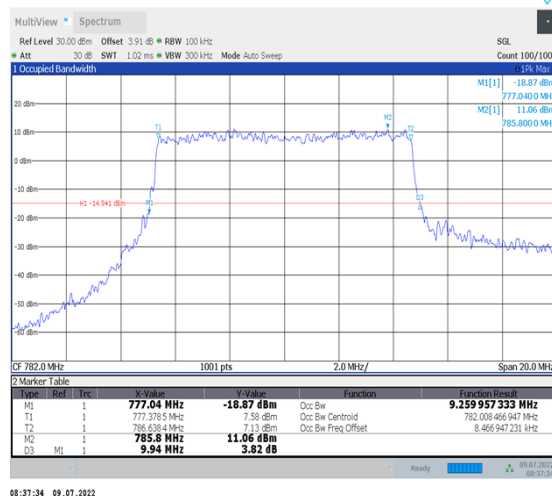
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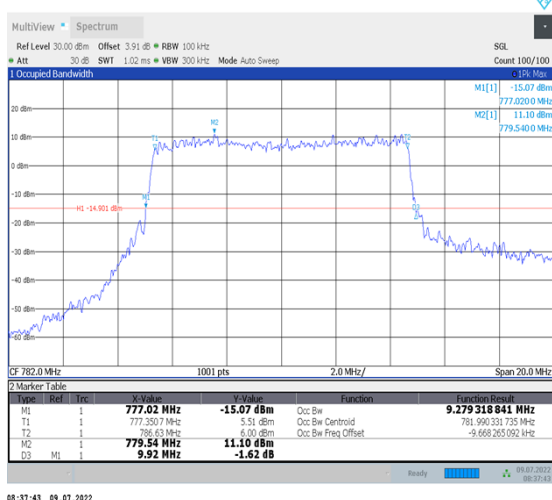
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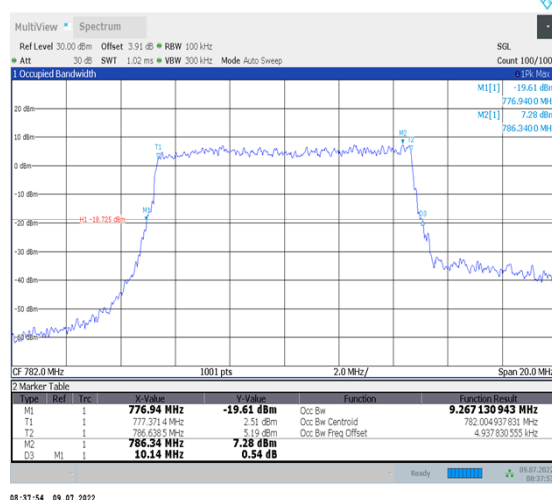
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1-N13--15-10-M-8-CP-64QAM-Outer\_Full-52@0-Ant1-9.279-9.920-≤10-PASS



1-N13--15-10-M-9-CP-256QAM-Outer\_Full-52@0-Ant1-9.267-10.140-≤10-PASS



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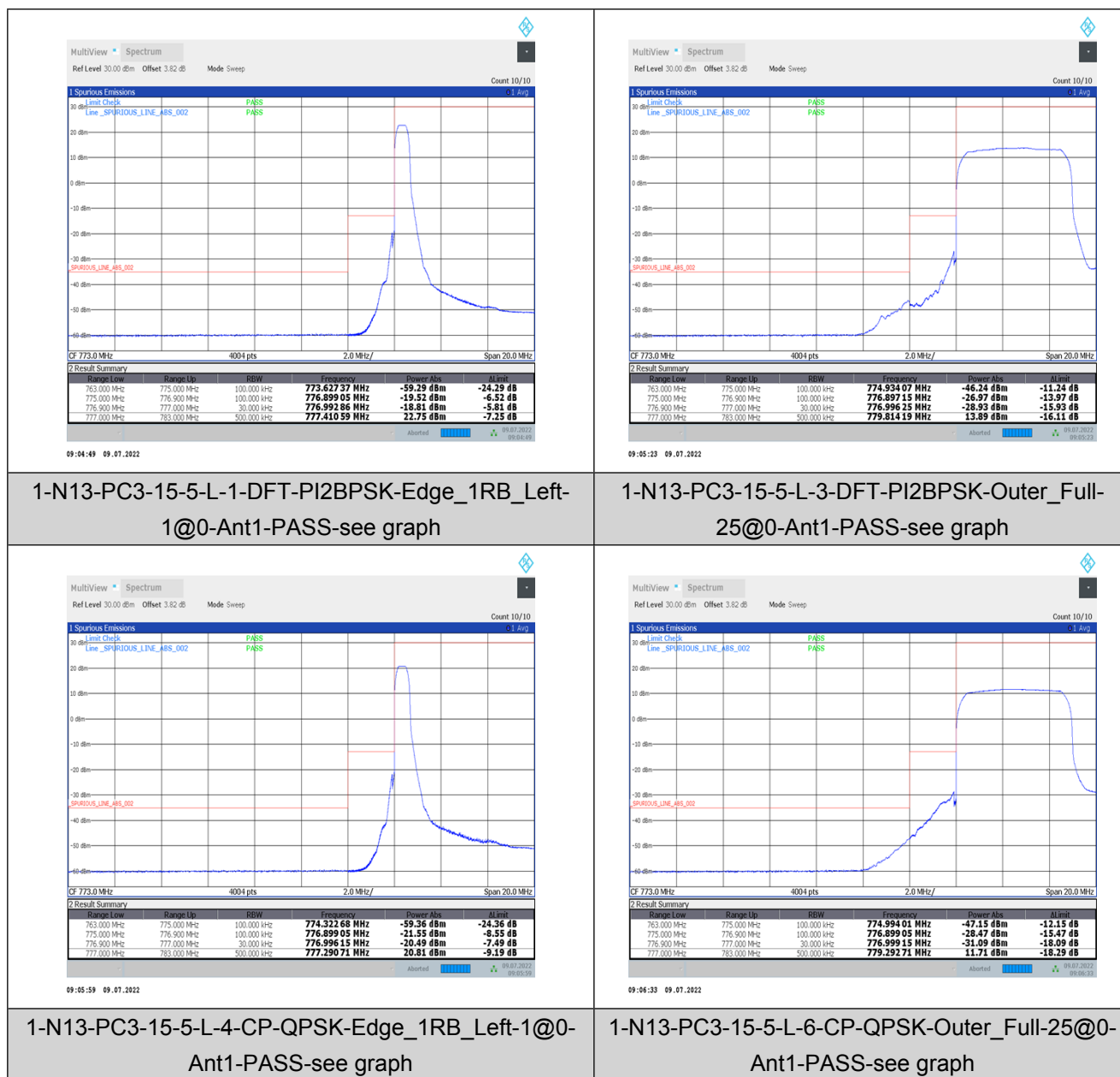
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## Band Edge for SA

### Test Graphs



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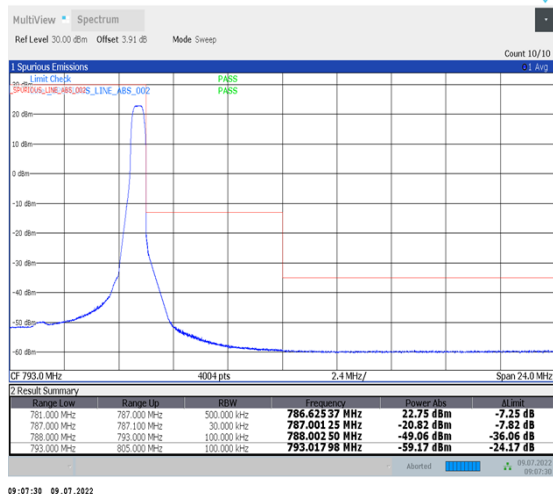
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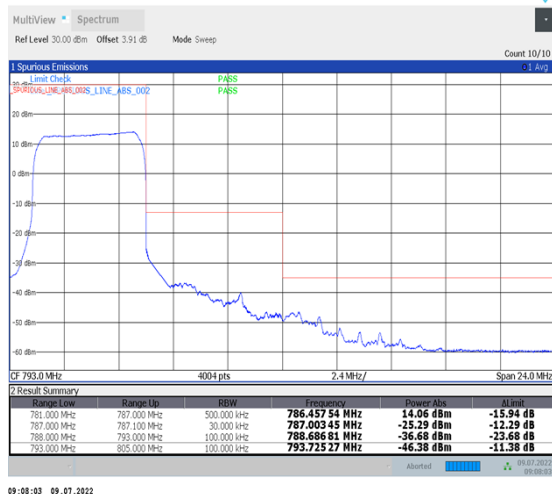
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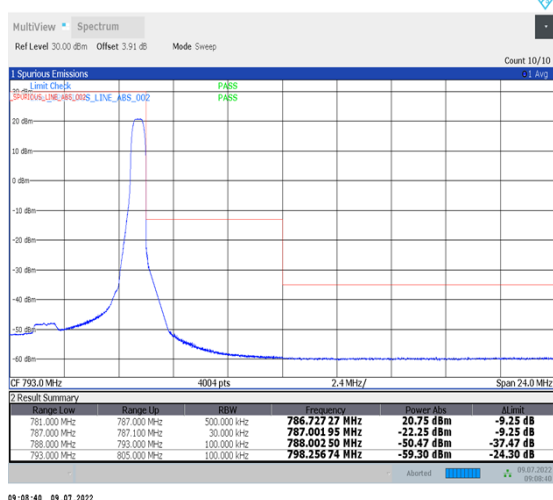
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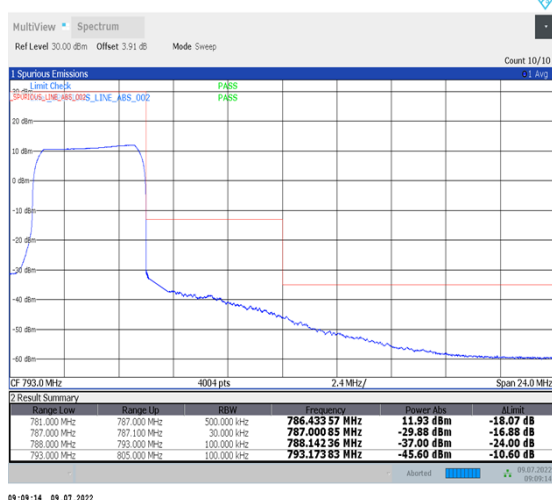
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1-N13-PC3-15-5-H-5-CP-QPSK-Edge\_1RB\_Right-1@24-Ant1-PASS-see graph



1-N13-PC3-15-5-H-6-CP-QPSK-Outer\_Full-25@0-Ant1-PASS-see graph



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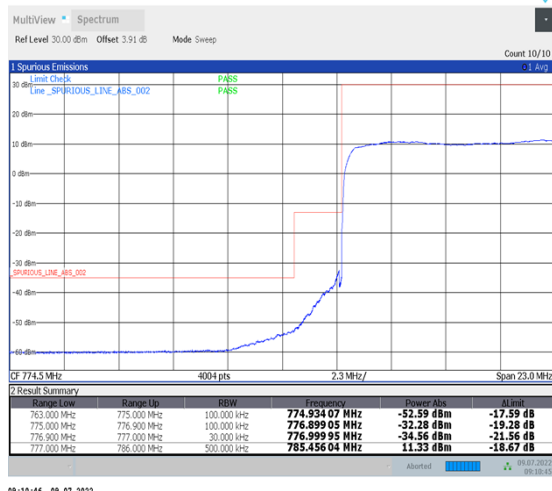
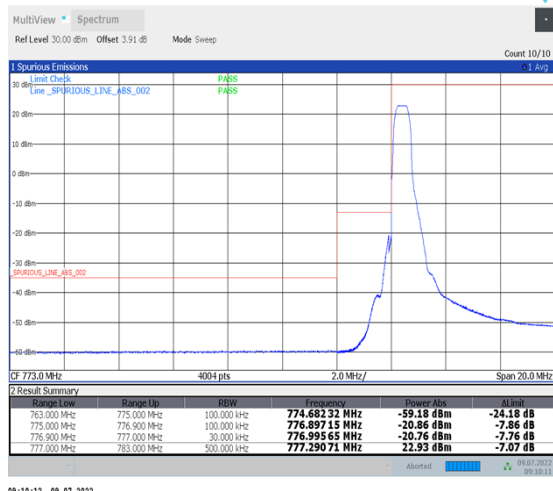
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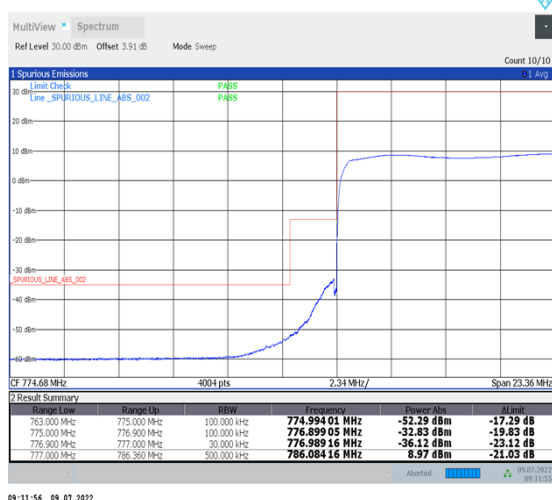
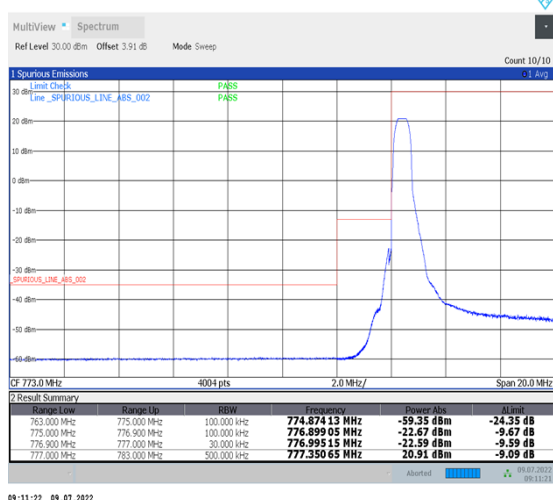
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1-N13-PC3-15-10-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-PASS-see graph

1-N13-PC3-15-10-L-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-PASS-see graph



1-N13-PC3-15-10-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-PASS-see graph

1-N13-PC3-15-10-L-6-CP-QPSK-Outer\_Full-52@0-Ant1-PASS-see graph



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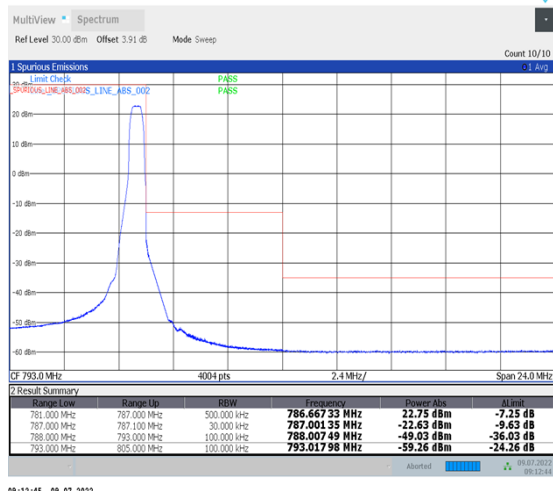
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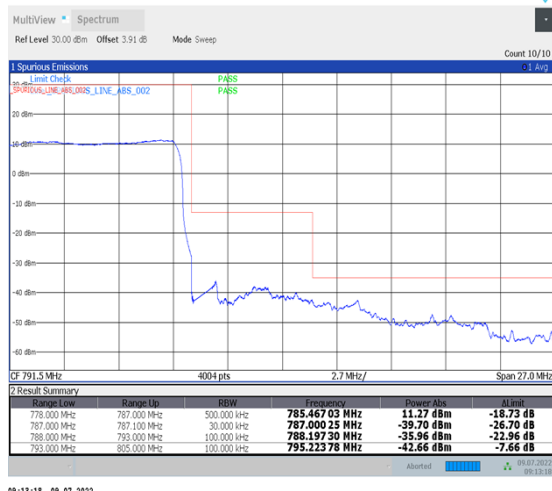
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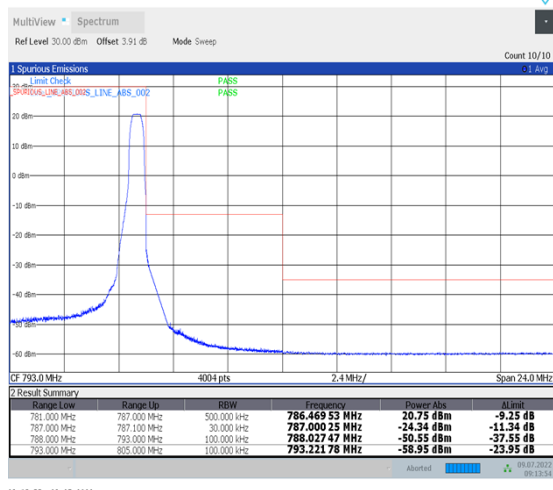
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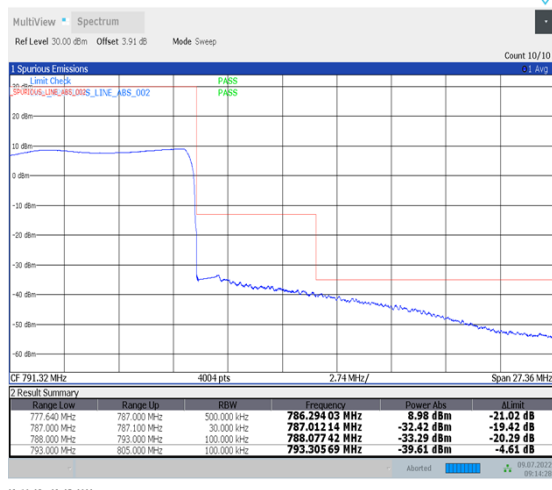
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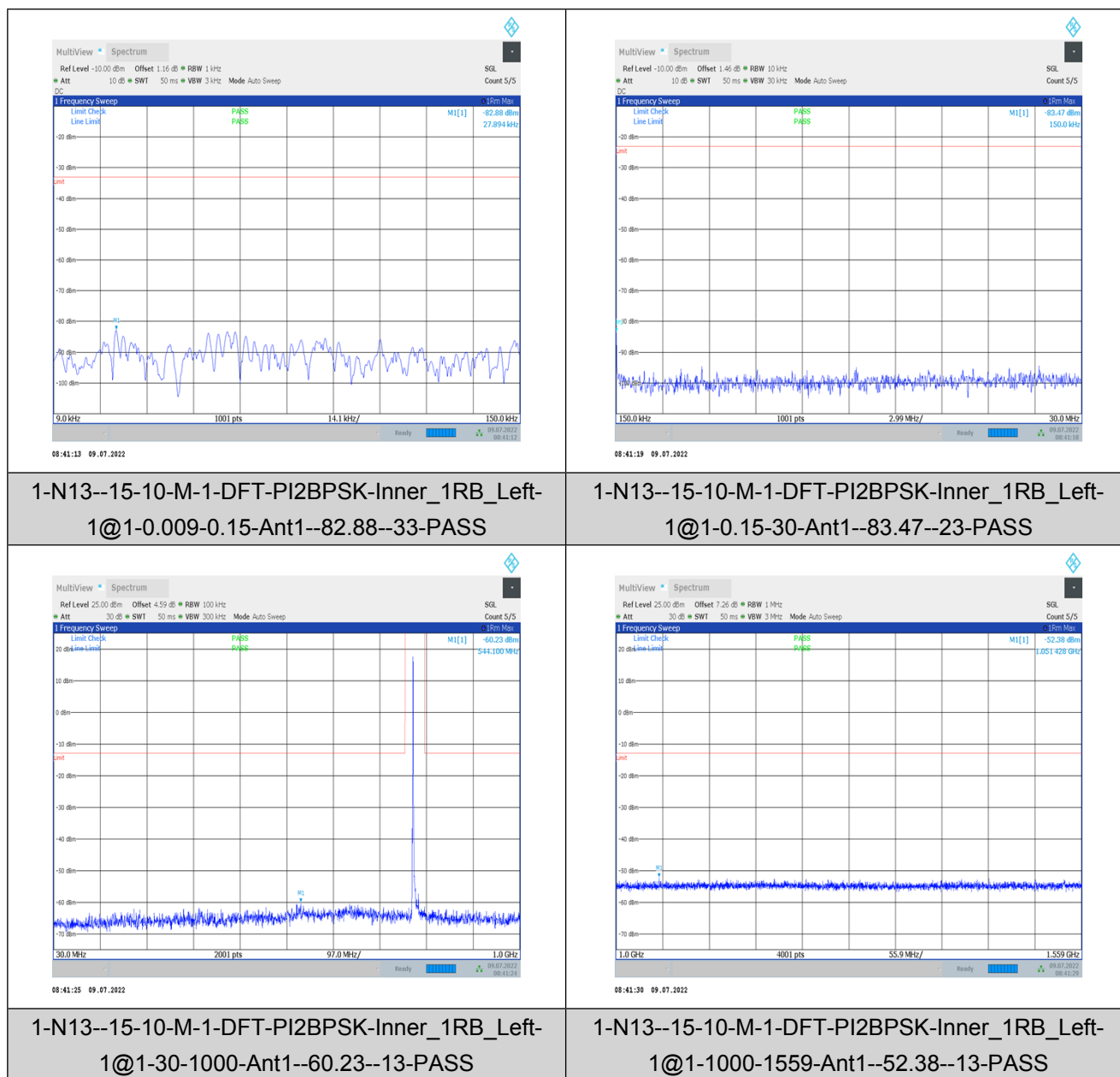
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## Conducted Spurious Emission for SA

### Test Graphs



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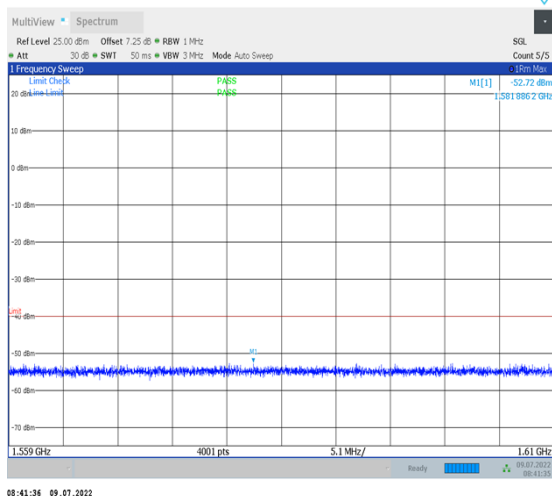
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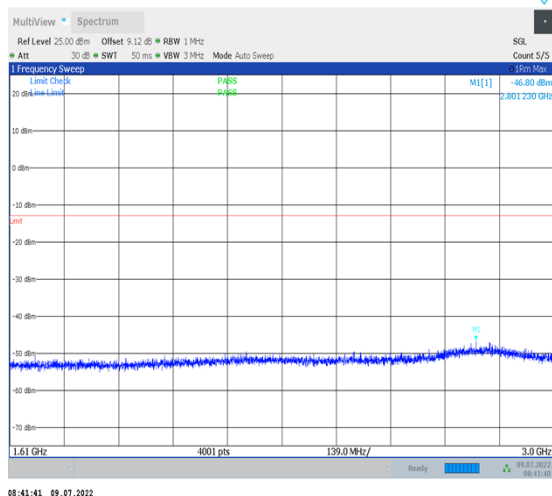
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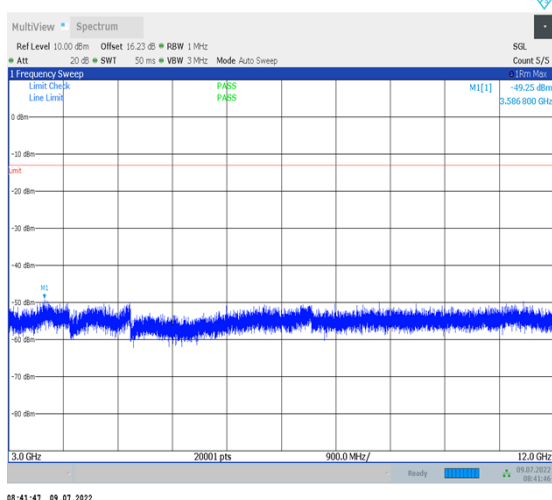
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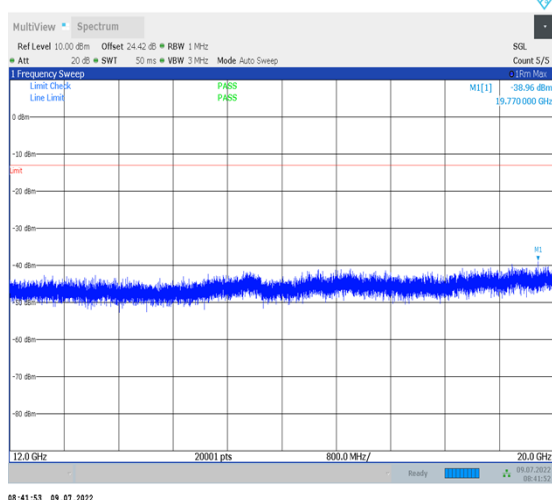
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1-N13--15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-3000-12000-Ant1--49.25--13-PASS



1-N13--15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-12000-20000-Ant1--38.96--13-PASS



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## Field Strength of Spurious Radiation

**Test Band = SA Band 13 BW 10M\_ TM1**
**Test Channel = Mid Channel**

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1555.18         | 58.56          | -118.21     | -59.65      | -13.00      | 46.65       | 263         | 87        | Horizontal |
| 2               | 2332            | 61.27          | -115.31     | -54.04      | -13.00      | 41.04       | 251         | 54        | Horizontal |
| 3               | 3110.36         | 52.89          | -112.21     | -59.32      | -13.00      | 46.32       | 174         | 357       | Horizontal |
| 4               | 3887.95         | 51.98          | -110.47     | -58.49      | -13.00      | 45.49       | 186         | 34        | Horizontal |
| 5               | 4665.54         | 50.46          | -108.04     | -57.58      | -13.00      | 44.58       | 264         | 15        | Horizontal |
| 6               | 5443.13         | 52.32          | -106.49     | -54.17      | -13.00      | 41.17       | 144         | 34        | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1555.18         | 53.45          | -118.21     | -64.76      | -13.00      | 51.76       | 263         | 360       | Vertical |
| 2               | 2332.77         | 52.06          | -115.31     | -63.25      | -13.00      | 50.25       | 251         | 360       | Vertical |
| 3               | 3110.36         | 52.15          | -112.21     | -60.06      | -13.00      | 47.06       | 174         | 3         | Vertical |
| 4               | 3887.95         | 50.78          | -110.47     | -59.69      | -13.00      | 46.69       | 186         | 179       | Vertical |
| 5               | 4665.54         | 49.93          | -108.04     | -58.11      | -13.00      | 45.11       | 254         | 83        | Vertical |
| 6               | 5443.13         | 53.36          | -106.49     | -53.13      | -13.00      | 40.13       | 188         | 328       | Vertical |



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**Test Band = SA Band 13 BW 5M\_ TM1**
**Test Channel = Low Channel**

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1554.68         | 53.55          | -118.21     | -64.66      | -13.00      | 51.66       | 253         | 267       | Horizontal |
| 2               | 2332.02         | 52.70          | -115.31     | -62.61      | -13.00      | 49.61       | 241         | 151       | Horizontal |
| 3               | 3109.36         | 51.65          | -112.22     | -60.57      | -13.00      | 47.57       | 176         | 224       | Horizontal |
| 4               | 3886.7          | 50.65          | -110.47     | -59.82      | -13.00      | 46.82       | 284         | 277       | Horizontal |
| 5               | 4664.04         | 50.73          | -108.04     | -57.31      | -13.00      | 44.31       | 163         | 224       | Horizontal |
| 6               | 5441.38         | 53.08          | -106.49     | -53.41      | -13.00      | 40.41       | 244         | 236       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1554.68         | 53.93          | -118.21     | -64.28      | -13.00      | 51.28       | 263         | 360       | Vertical |
| 2               | 2332.02         | 53.00          | -115.31     | -62.31      | -13.00      | 49.31       | 251         | 338       | Vertical |
| 3               | 3109.36         | 51.99          | -112.22     | -60.23      | -13.00      | 47.23       | 174         | 11        | Vertical |
| 4               | 3886.7          | 51.66          | -110.47     | -58.81      | -13.00      | 45.81       | 262         | 105       | Vertical |
| 5               | 4664.04         | 50.75          | -108.04     | -57.29      | -13.00      | 44.29       | 241         | 316       | Vertical |
| 6               | 5441.38         | 53.13          | -106.49     | -53.36      | -13.00      | 40.36       | 188         | 355       | Vertical |



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**Test Band = SA Band 13 BW 5M\_ TM1**
**Test Channel = Mid Channel**

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1559.68         | 69.52          | -118.21     | -48.69      | -40.00      | 8.69        | 263         | 205       | Horizontal |
| 2               | 2339.52         | 83.13          | -115.29     | -32.16      | -13.00      | 19.16       | 251         | 357       | Horizontal |
| 3               | 3119.36         | 52.22          | -112.19     | -59.97      | -13.00      | 46.97       | 144         | 277       | Horizontal |
| 4               | 3899.2          | 50.68          | -110.43     | -59.75      | -13.00      | 46.75       | 265         | 119       | Horizontal |
| 5               | 4679.04         | 50.51          | -107.99     | -57.48      | -13.00      | 44.48       | 244         | 76        | Horizontal |
| 6               | 5458.88         | 52.21          | -106.48     | -54.27      | -13.00      | 41.27       | 178         | 309       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1559.68         | 55.47          | -118.21     | -62.74      | -40.00      | 22.74       | 263         | 242       | Vertical |
| 2               | 2339.52         | 59.36          | -115.29     | -55.93      | -13.00      | 42.93       | 251         | 276       | Vertical |
| 3               | 3119.36         | 52.09          | -112.19     | -60.10      | -13.00      | 47.10       | 174         | 360       | Vertical |
| 4               | 3899.2          | 50.82          | -110.43     | -59.61      | -13.00      | 46.61       | 186         | 352       | Vertical |
| 5               | 4679.04         | 50.65          | -107.99     | -57.34      | -13.00      | 44.34       | 264         | 211       | Vertical |
| 6               | 5458.88         | 51.47          | -106.48     | -55.01      | -13.00      | 42.01       | 188         | 190       | Vertical |



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**Test Band = SA Band 13 BW 5M\_ TM1**
**Test Channel = High Channel**

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1564            | 67.40          | -118.21     | -50.81      | -40.00      | 10.81       | 263         | 96        | Horizontal |
| 2               | 2347.02         | 95.97          | -115.27     | -19.30      | -13.00      | 6.30        | 251         | 2         | Horizontal |
| 3               | 3129.36         | 51.72          | -112.17     | -60.45      | -13.00      | 47.45       | 174         | 64        | Horizontal |
| 4               | 3911.7          | 51.03          | -110.40     | -59.37      | -13.00      | 46.37       | 162         | 266       | Horizontal |
| 5               | 4694.04         | 51.24          | -107.94     | -56.70      | -13.00      | 43.70       | 241         | 43        | Horizontal |
| 6               | 5476.38         | 51.28          | -106.46     | -55.18      | -13.00      | 42.18       | 188         | 138       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1564            | 69.14          | -118.21     | -49.07      | -40.00      | 9.07        | 152         | 32        | Vertical |
| 2               | 2346            | 89.10          | -115.28     | -26.18      | -13.00      | 13.18       | 263         | 180       | Vertical |
| 3               | 3129.36         | 52.19          | -112.17     | -59.98      | -13.00      | 46.98       | 241         | 137       | Vertical |
| 4               | 3911.7          | 50.74          | -110.40     | -59.66      | -13.00      | 46.66       | 176         | 137       | Vertical |
| 5               | 4694.04         | 51.00          | -107.94     | -56.94      | -13.00      | 43.94       | 264         | 11        | Vertical |
| 6               | 5476.38         | 51.94          | -106.46     | -54.52      | -13.00      | 41.52       | 188         | 327       | Vertical |



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## Frequency Stability for SA

### Test Result

#### Frequency Error VS. Voltage

| Voltage |     |           |             |         |            |         |             |               |                 |         |
|---------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band    | SCS | Bandwidth | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N13     | 15  | 10        | DFT-PI2BPSK | M       | Outer_Full | VH      | NT          | 2.700000      | 0.003453        | PASS    |
| N13     | 15  | 10        | DFT-PI2BPSK | M       | Outer_Full | VN      | NT          | 1.000000      | 0.001279        | PASS    |
| N13     | 15  | 10        | DFT-PI2BPSK | M       | Outer_Full | VL      | NT          | 2.900000      | 0.003708        | PASS    |
| N13     | 15  | 10        | CP-QPSK     | M       | Outer_Full | VH      | NT          | 0.300000      | 0.000384        | PASS    |
| N13     | 15  | 10        | CP-QPSK     | M       | Outer_Full | VN      | NT          | 1.900000      | 0.002430        | PASS    |
| N13     | 15  | 10        | CP-QPSK     | M       | Outer_Full | VL      | NT          | 2.900000      | 0.003708        | PASS    |



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**Frequency Error VS. Temperature**

| Voltage |     |           |             |         |            |         |             |               |                 |         |
|---------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band    | SCS | Bandwidth | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N13     | 15  | 10        | DFT-PI2BPSK | M       | Outer_Full | NV      | -30         | 1.000000      | 0.001279        | PASS    |
| N13     | 15  | 10        | DFT-PI2BPSK | M       | Outer_Full | NV      | -20         | 1.100000      | 0.001407        | PASS    |
| N13     | 15  | 10        | DFT-PI2BPSK | M       | Outer_Full | NV      | -10         | 4.000000      | 0.005115        | PASS    |
| N13     | 15  | 10        | DFT-PI2BPSK | M       | Outer_Full | NV      | 0           | 2.300000      | 0.002941        | PASS    |
| N13     | 15  | 10        | DFT-PI2BPSK | M       | Outer_Full | NV      | 10          | 1.300000      | 0.001662        | PASS    |
| N13     | 15  | 10        | DFT-PI2BPSK | M       | Outer_Full | NV      | 20          | 3.100000      | 0.003964        | PASS    |
| N13     | 15  | 10        | DFT-PI2BPSK | M       | Outer_Full | NV      | 30          | 0.200000      | 0.000256        | PASS    |
| N13     | 15  | 10        | DFT-PI2BPSK | M       | Outer_Full | NV      | 40          | -0.600000     | -0.000767       | PASS    |
| N13     | 15  | 10        | DFT-PI2BPSK | M       | Outer_Full | NV      | 50          | 2.400000      | 0.003069        | PASS    |
| N13     | 15  | 10        | CP-QPSK     | M       | Outer_Full | NV      | -30         | 3.200000      | 0.004092        | PASS    |
| N13     | 15  | 10        | CP-QPSK     | M       | Outer_Full | NV      | -20         | 2.200000      | 0.002813        | PASS    |
| N13     | 15  | 10        | CP-QPSK     | M       | Outer_Full | NV      | -10         | 5.900000      | 0.007545        | PASS    |
| N13     | 15  | 10        | CP-QPSK     | M       | Outer_Full | NV      | 0           | 4.300000      | 0.005499        | PASS    |
| N13     | 15  | 10        | CP-QPSK     | M       | Outer_Full | NV      | 10          | 4.200000      | 0.005371        | PASS    |
| N13     | 15  | 10        | CP-QPSK     | M       | Outer_Full | NV      | 20          | 4.500000      | 0.005754        | PASS    |
| N13     | 15  | 10        | CP-QPSK     | M       | Outer_Full | NV      | 30          | 3.800000      | 0.004859        | PASS    |
| N13     | 15  | 10        | CP-QPSK     | M       | Outer_Full | NV      | 40          | 0.100000      | 0.000128        | PASS    |
| N13     | 15  | 10        | CP-QPSK     | M       | Outer_Full | NV      | 50          | 1.200000      | 0.001535        | PASS    |

The End



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