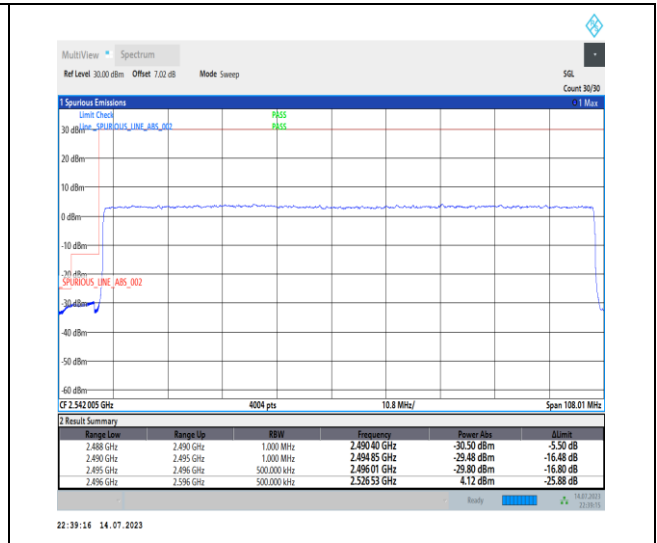
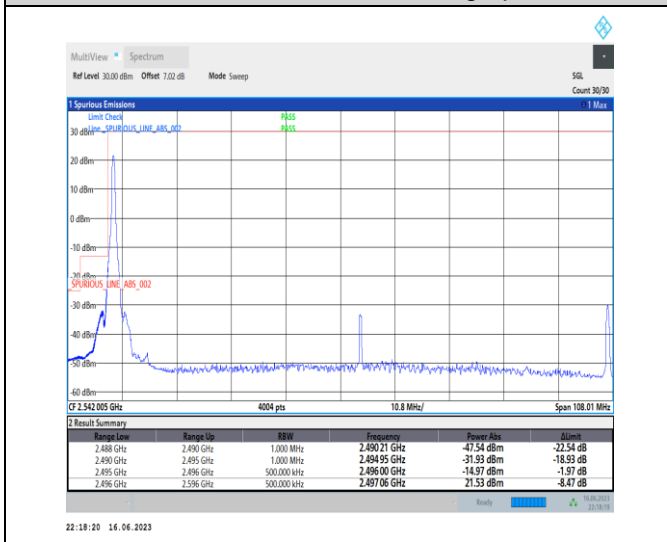


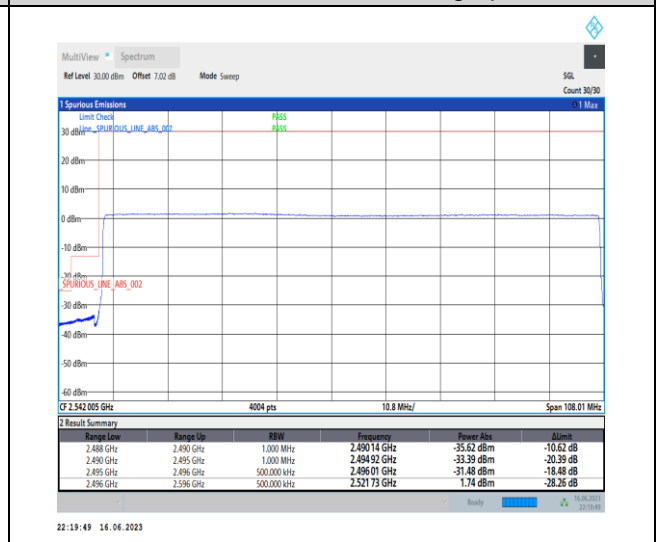
1-N41-PC1-30-100-L-1-DFT-PI2BPSK-Edge\_1RB\_Le ft-1@0-Ant0-1--PASS-see graph



1-N41-PC1-30-100-L-3-DFT-PI2BPSK-Outer\_Full-2 70@0-Ant0-1--PASS-see graph



1-N41-PC1-30-100-L-4-CP-QPSK-Edge\_1RB\_Left-1 @0-Ant0-1--PASS-see graph



1-N41-PC1-30-100-L-6-CP-QPSK-Outer\_Full-273@ 0-Ant0-1--PASS-see graph

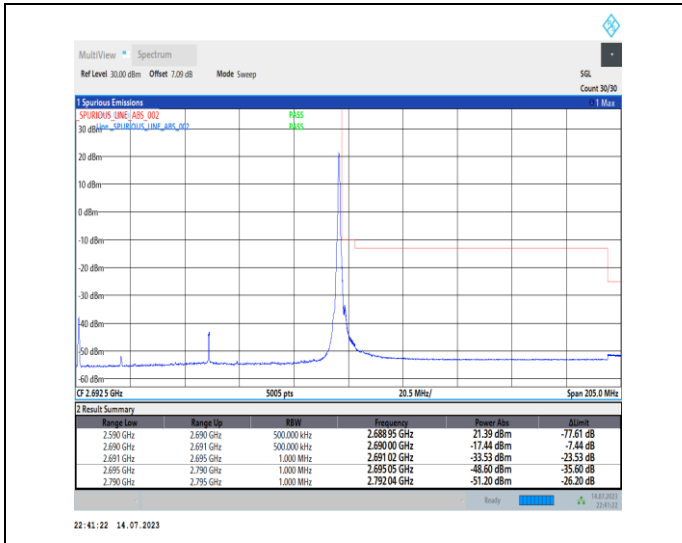


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 Wireless Laboratory

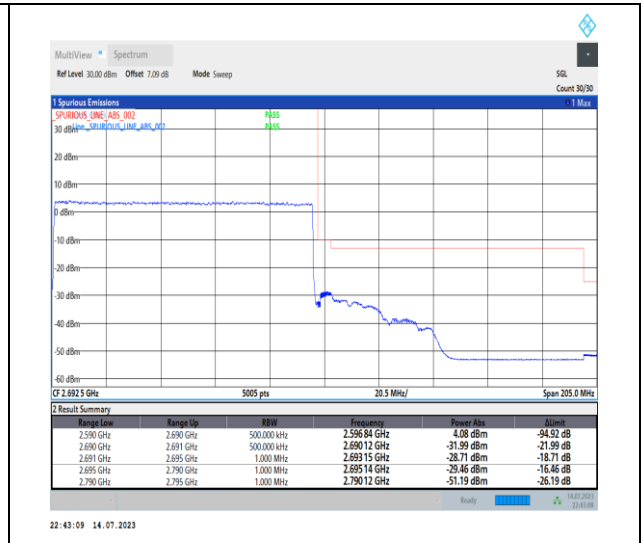
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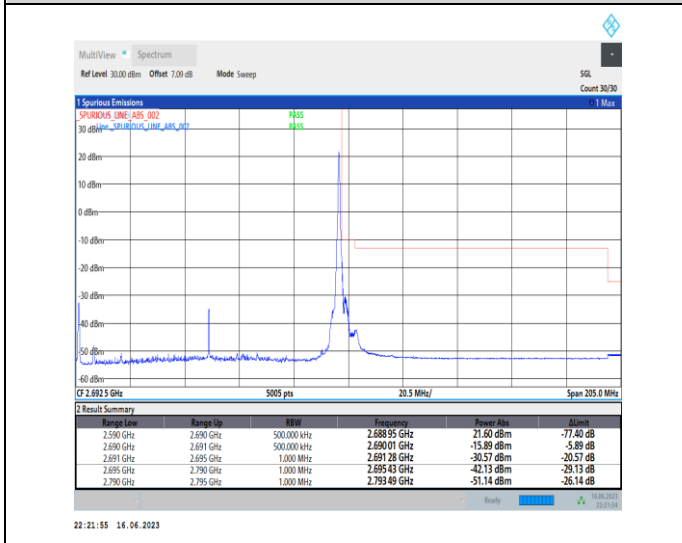
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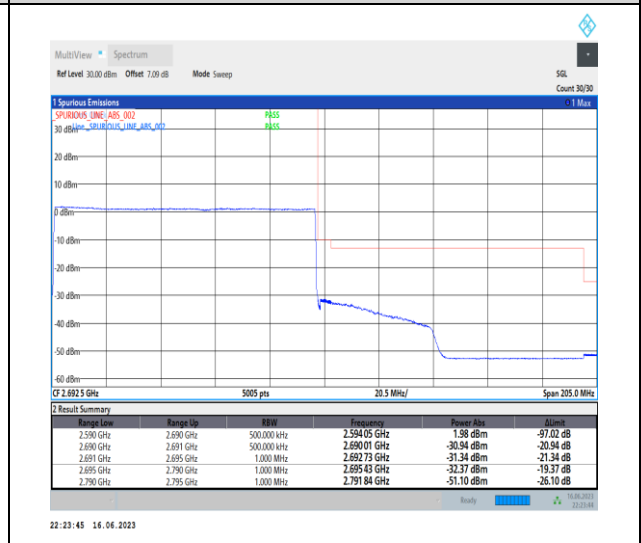
1-N41-PC1-30-100-H-2-DFT-PI2BPSK-Edge\_1RB\_Rig ht-1@272-Ant0-1--PASS-see graph



1-N41-PC1-30-100-H-3-DFT-PI2BPSK-Outer\_Full-270@0-Ant0-1--PASS-see graph



1-N41-PC1-30-100-H-5-CP-QPSK-Edge\_1RB\_Right-1 @272-Ant0-1--PASS-see graph



1-N41-PC1-30-100-H-6-CP-QPSK-Outer\_Full-273 @0-Ant0-1--PASS-see graph



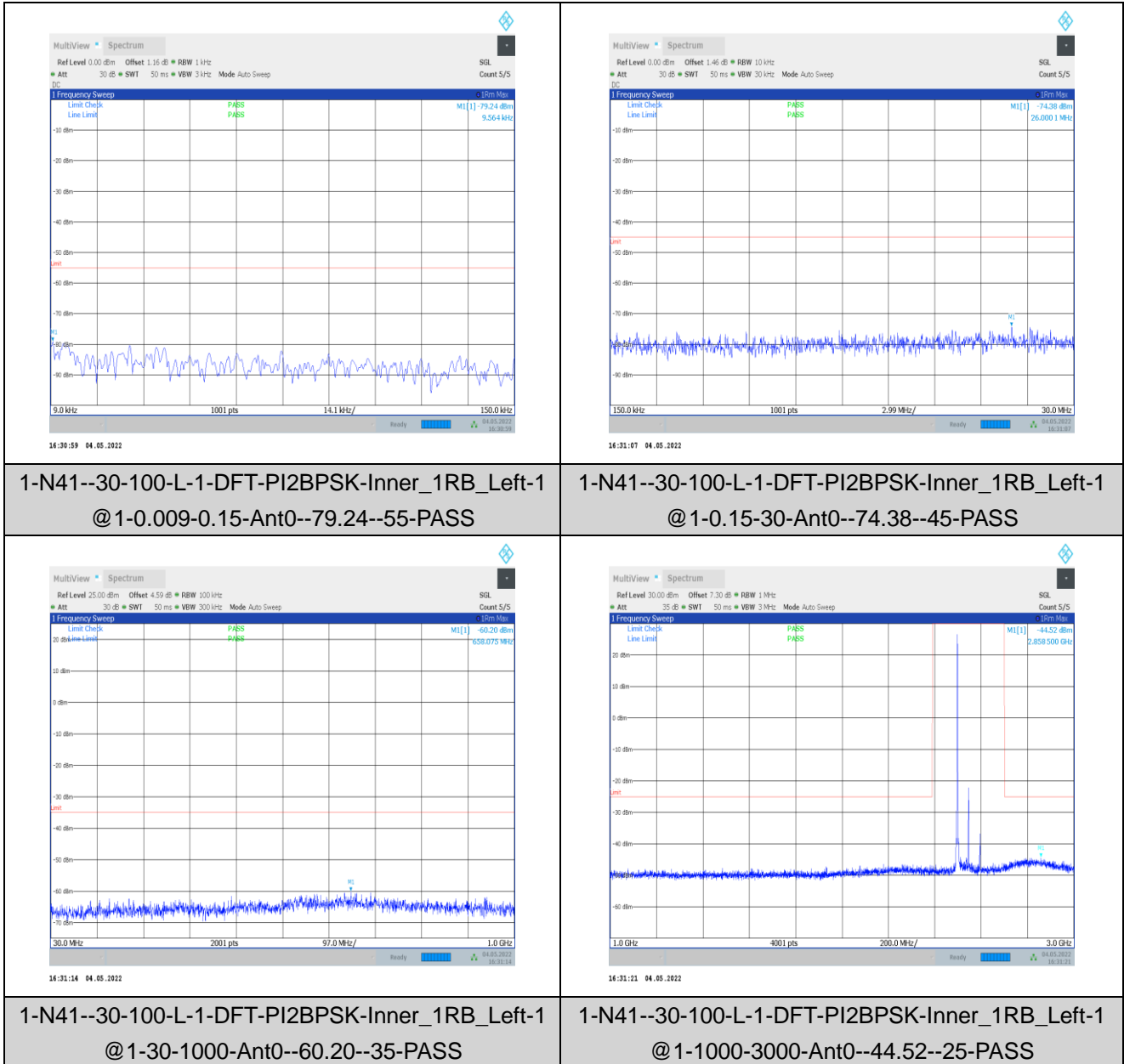
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## Conducted Spurious Emission for SA

### Test Graphs

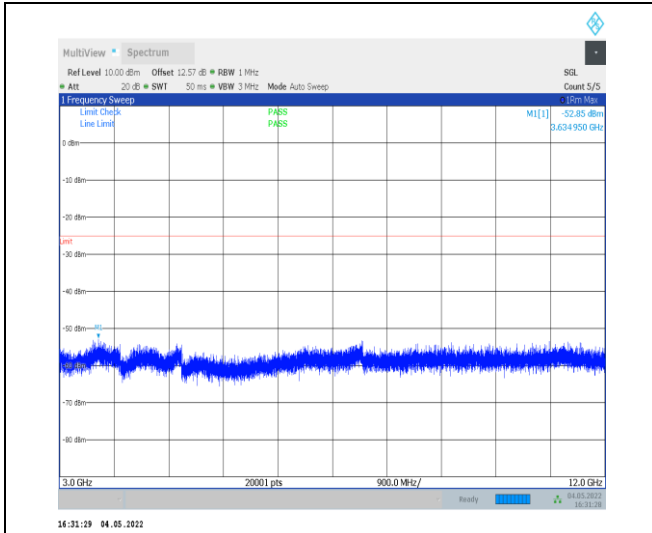


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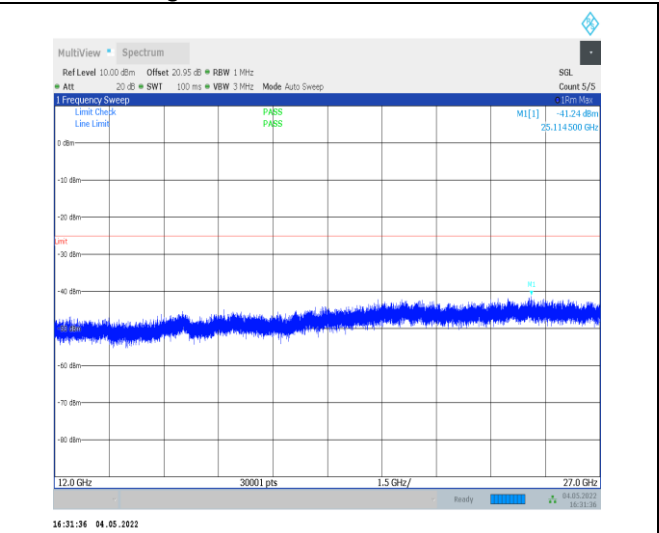
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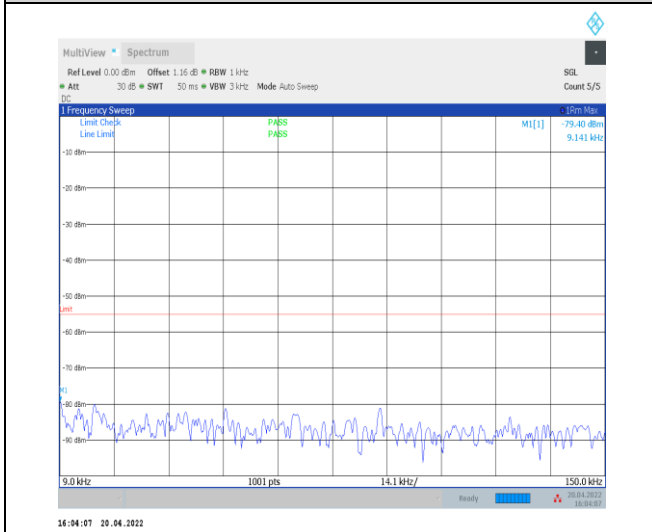
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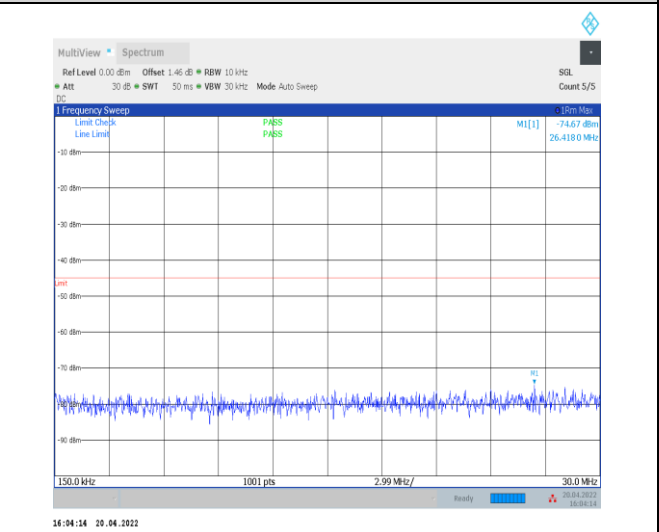
1-N41--30-100-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@ 1-3000-12000-Ant0--52.85--25-PASS



1-N41--30-100-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@ 1-12000-27000-Ant0--41.24--25-PASS



1-N41--30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@ 1-0.009-0.15-Ant0--79.40--55-PASS

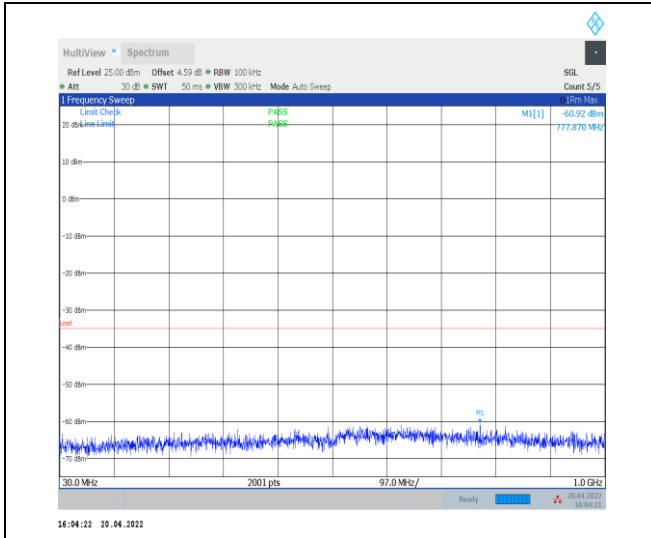


1-N41--30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@ 1-0.15-30-Ant0--74.67--45-PASS

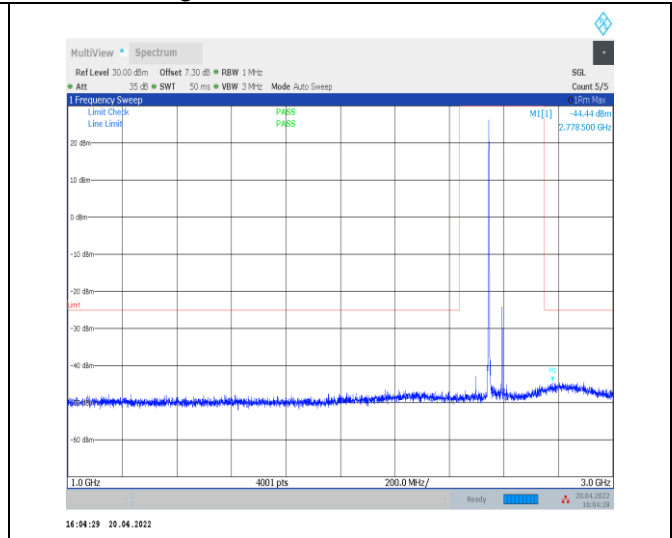


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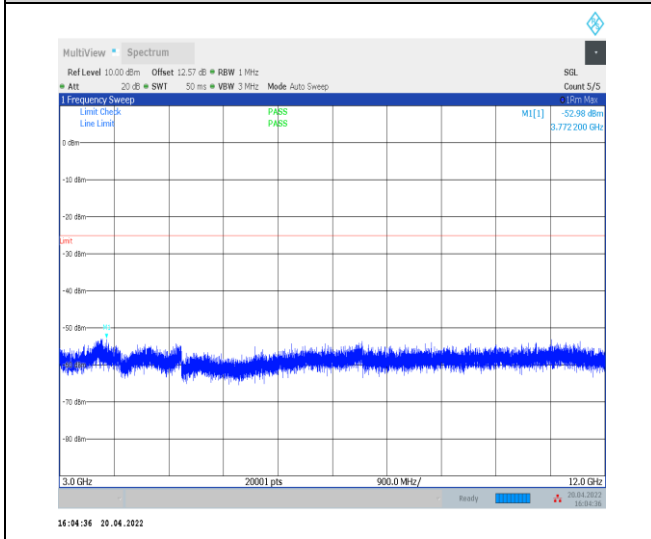
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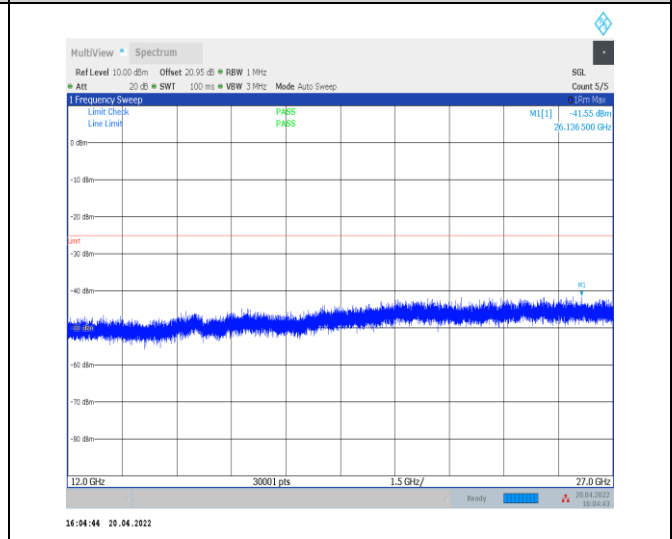
1-N41--30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-30-1000-Ant0--60.92--35-PASS



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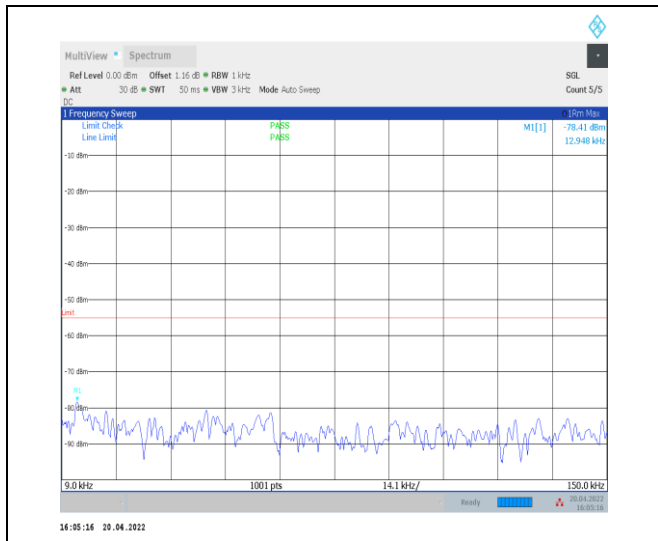
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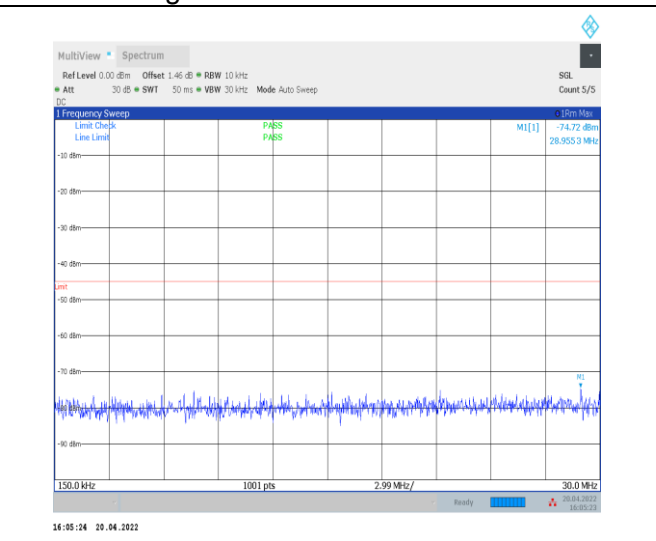
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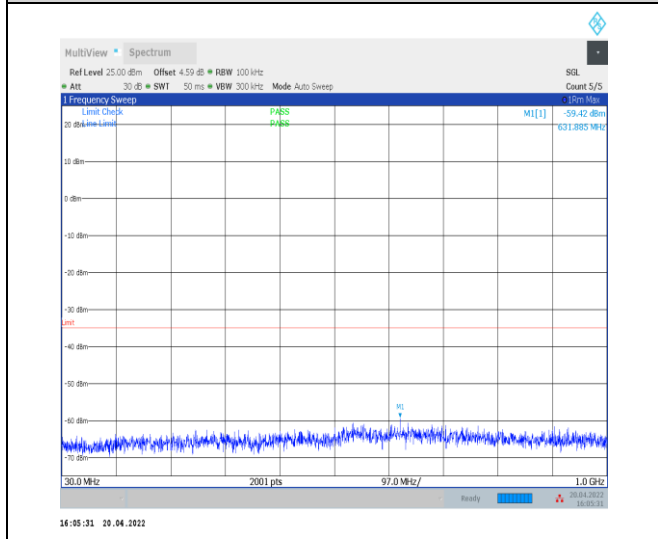
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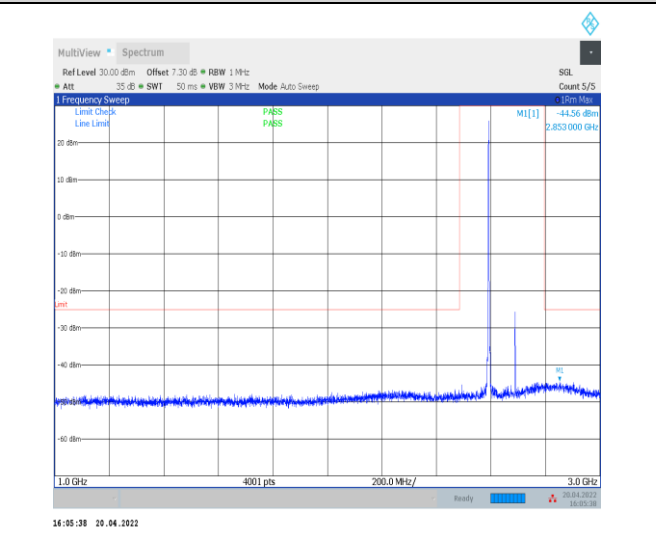
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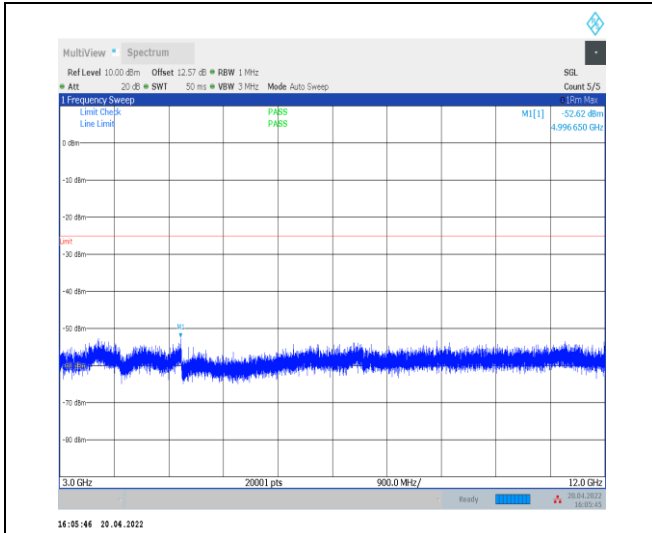
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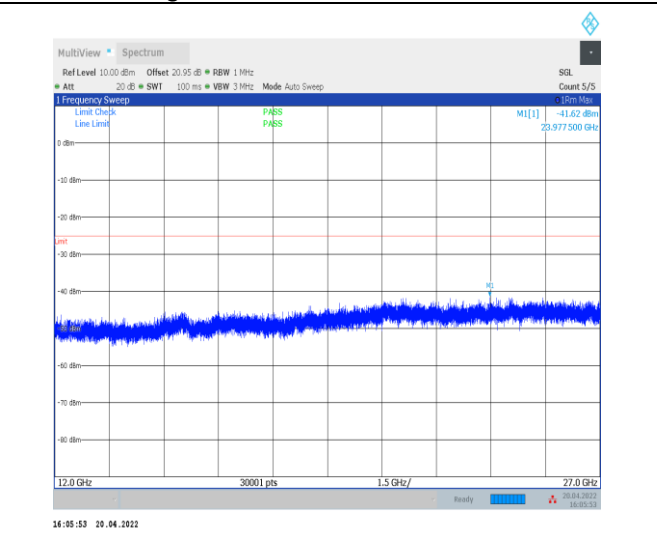
1-N41--30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-1000-3000-Ant0--44.56--25-PASS



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1-N41--30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-3000-12000-Ant0--52.62--25-PASS



1-N41--30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-12000-27000-Ant0--41.62--25-PASS



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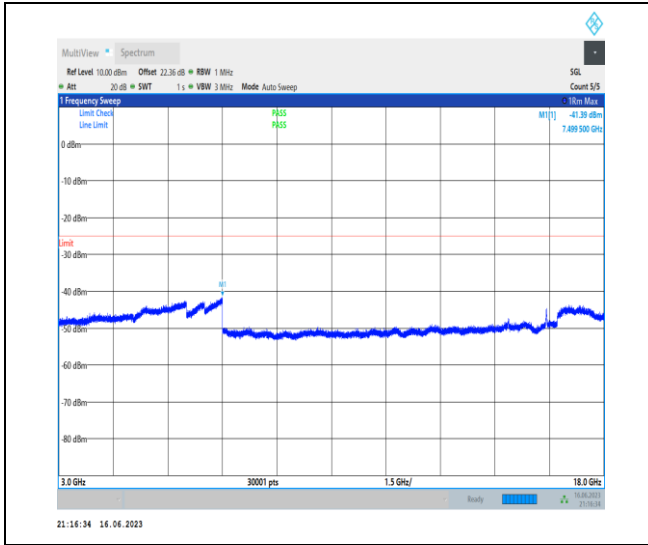
Test Graphs for MIMO

|   |  |
|---|--|
| <p>MultiView Spectrum<br/>     Ref Level: 0.00 dBm Offset: 1.36 dB RBW: 1 kHz<br/>     Att: 20 dB SWT: 4.19 ms (*12 ms) VBW: 3 kHz Mode: Auto FFT<br/>     Count: 30/30<br/>     DC<br/>     1 Frequency Sweep<br/>     Limit Check: PASS<br/>     Line Limit: PASS<br/>     M[1]: 47.61 dBm<br/>     21.831 kHz<br/>     10 dBm Max<br/>     10 dBm<br/>     20 dBm<br/>     30 dBm<br/>     40 dBm<br/>     50 dBm<br/>     60 dBm<br/>     70 dBm<br/>     80 dBm<br/>     90 dBm<br/>     100 dBm<br/>     Limit<br/>     0.0 MHz 10001 pts 14.1 kHz/ 150.0 kHz<br/>     21:15:53 16.06.2023</p>          | <p>MultiView Spectrum<br/>     Ref Level: 0.00 dBm Offset: 1.56 dB RBW: 10 kHz<br/>     Att: 20 dB SWT: 419 μs (*17 ms) VBW: 30 kHz Mode: Auto FFT<br/>     Count: 30/30<br/>     DC<br/>     1 Frequency Sweep<br/>     Limit Check: PASS<br/>     Line Limit: PASS<br/>     M[1]: -77.32 dBm<br/>     28.985 10 MHz<br/>     10 dBm Max<br/>     10 dBm<br/>     20 dBm<br/>     30 dBm<br/>     40 dBm<br/>     50 dBm<br/>     60 dBm<br/>     70 dBm<br/>     80 dBm<br/>     90 dBm<br/>     100 dBm<br/>     Limit<br/>     150.0 MHz 10001 pts 2.99 MHz/ 30.0 MHz<br/>     21:16:00 16.06.2023</p> |
| <p>1-N41-PC1-30-100-L-1-DFT-QPSK-Edge_1RB_Left<br/>       -1@0-0.009-0.15-Ant0-0.02--87.61--55-PASS</p>   | <p>1-N41-PC1-30-100-L-1-DFT-QPSK-Edge_1RB_Left-<br/>       1@0-0.15-30-Ant0-28.99--77.32--45-PASS</p>  |
| <p>MultiView Spectrum<br/>     Ref Level: 10.00 dBm Offset: 6.45 dB RBW: 100 kHz<br/>     Att: 20 dB SWT: 1 s VBW: 300 kHz Mode: Auto Sweep<br/>     Count: 5/5<br/>     DC<br/>     1 Frequency Sweep<br/>     Limit Check: PASS<br/>     Line Limit: PASS<br/>     M[1]: -67.94 dBm<br/>     31.552 0 MHz<br/>     10 dBm Max<br/>     0 dBm<br/>     10 dBm<br/>     20 dBm<br/>     30 dBm<br/>     40 dBm<br/>     50 dBm<br/>     60 dBm<br/>     70 dBm<br/>     80 dBm<br/>     90 dBm<br/>     100 dBm<br/>     Limit<br/>     30.0 MHz 10001 pts 97.0 MHz/ 1.0 GHz<br/>     21:16:11 16.06.2023</p> | <p>MultiView Spectrum<br/>     Ref Level: 25.00 dBm Offset: 7.61 dB RBW: 1 MHz<br/>     Att: 30 dB SWT: 1 s VBW: 3 MHz Mode: Auto Sweep<br/>     Count: 5/5<br/>     DC<br/>     1 Frequency Sweep<br/>     Limit Check: PASS<br/>     Line Limit: PASS<br/>     M[1]: -50.63 dBm<br/>     2.947 300 0 GHz<br/>     10 dBm Max<br/>     10 dBm<br/>     20 dBm<br/>     30 dBm<br/>     40 dBm<br/>     50 dBm<br/>     60 dBm<br/>     70 dBm<br/>     80 dBm<br/>     90 dBm<br/>     100 dBm<br/>     Limit<br/>     1.0 GHz 20001 pts 200.0 MHz/ 3.0 GHz<br/>     21:16:23 16.06.2023</p>              |
| <p>1-N41-PC1-30-100-L-1-DFT-QPSK-Edge_1RB_Left<br/>       -1@0-30-1000-Ant0-31.55--67.94--35-PASS</p>   | <p>1-N41-PC1-30-100-L-1-DFT-QPSK-Edge_1RB_Left-<br/>       1@0-1000-3000-Ant0-2947.30--50.63--25-PASS</p>  |

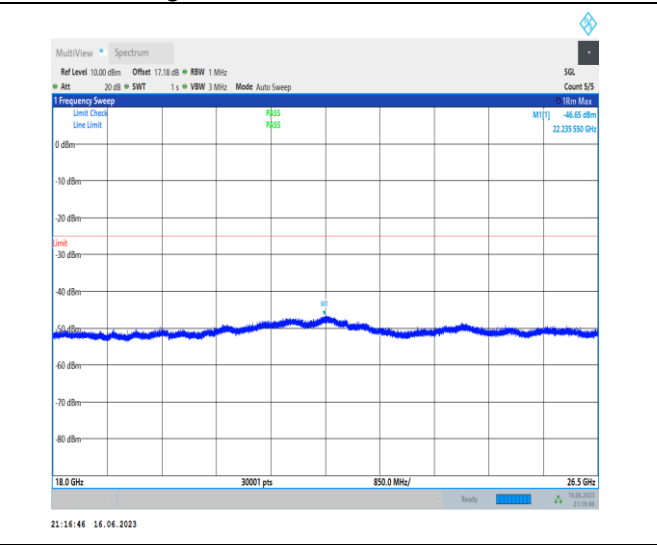


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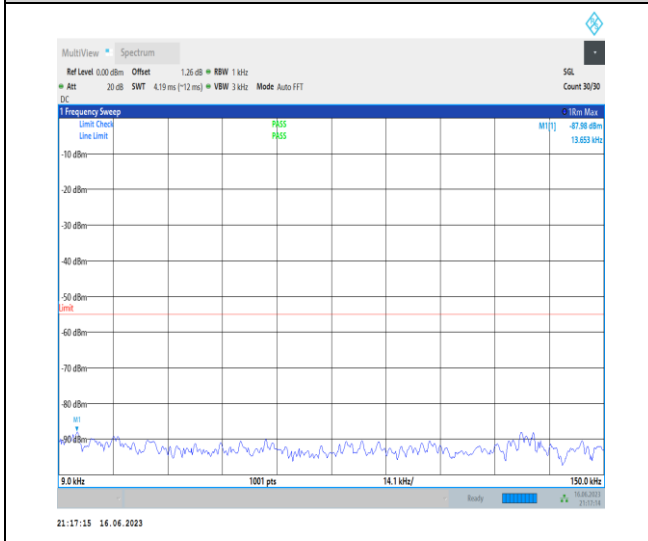




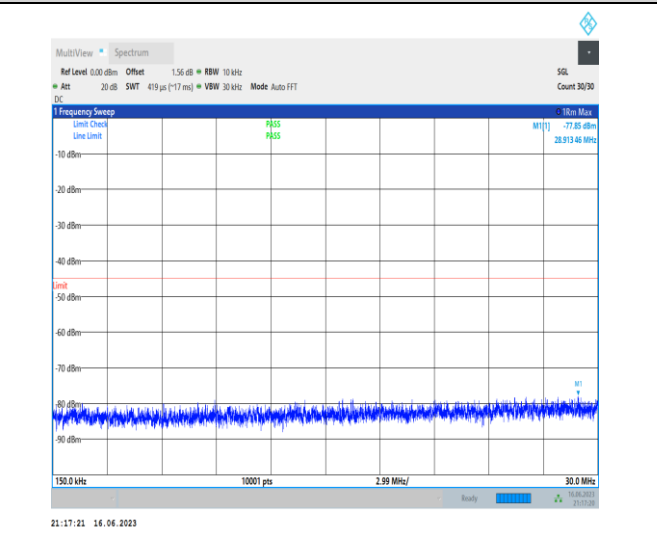
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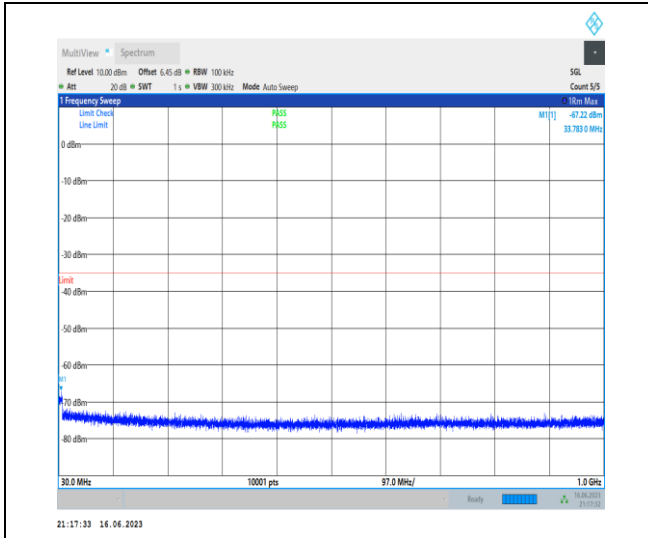


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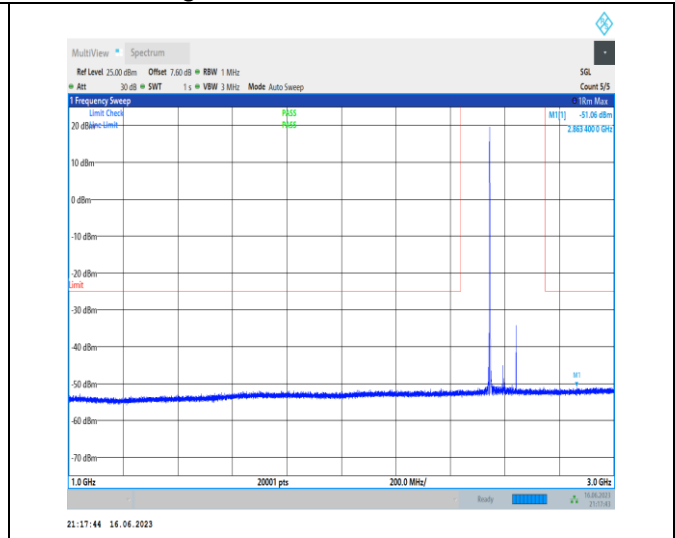
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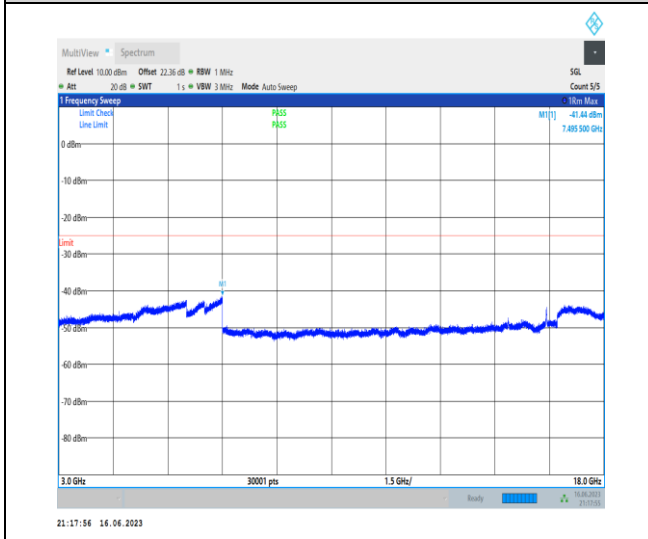
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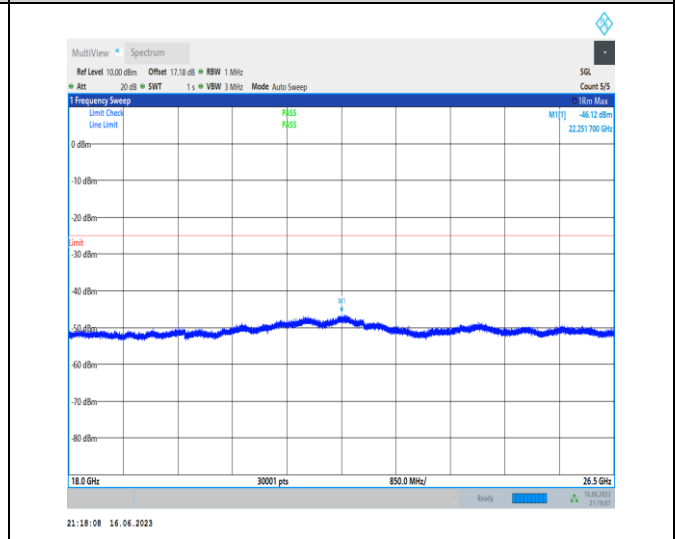
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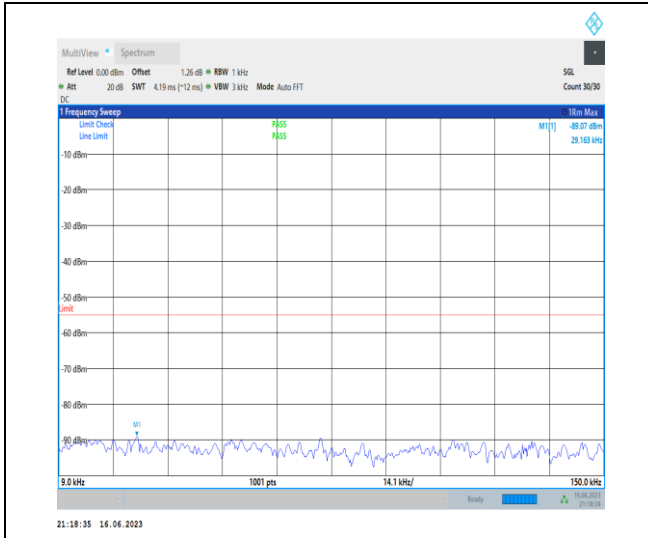
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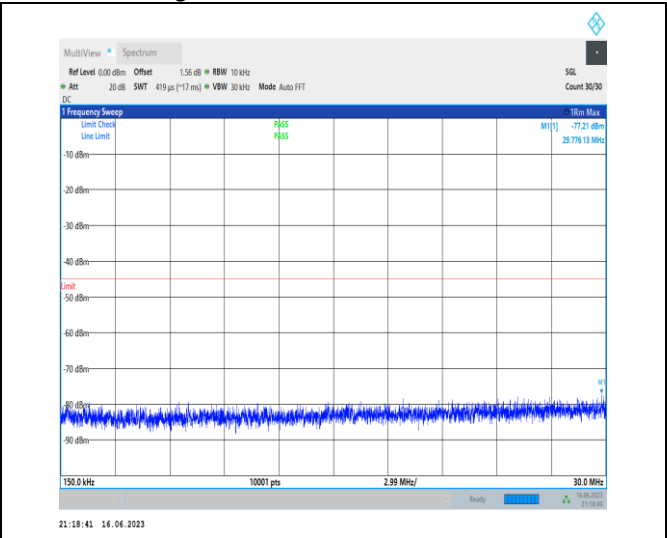
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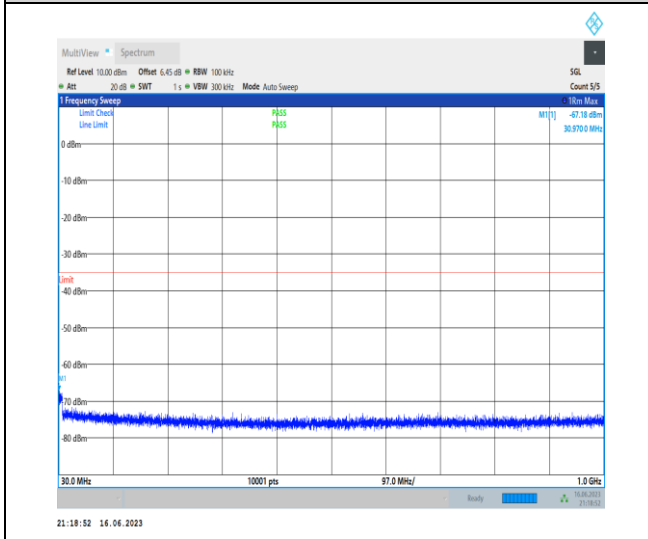
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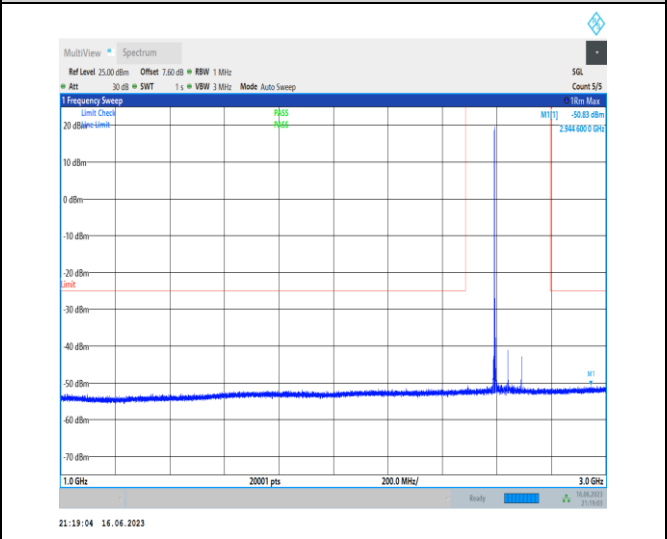
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-1@0-0.15-30-Ant0-29.78--77.21--45-PASS



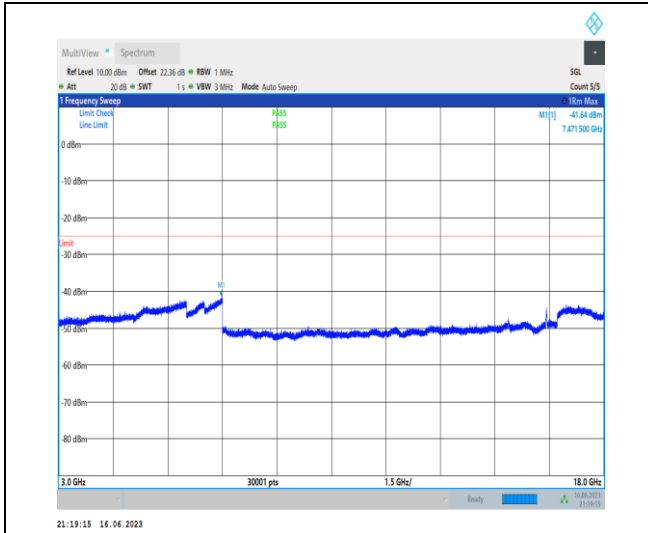
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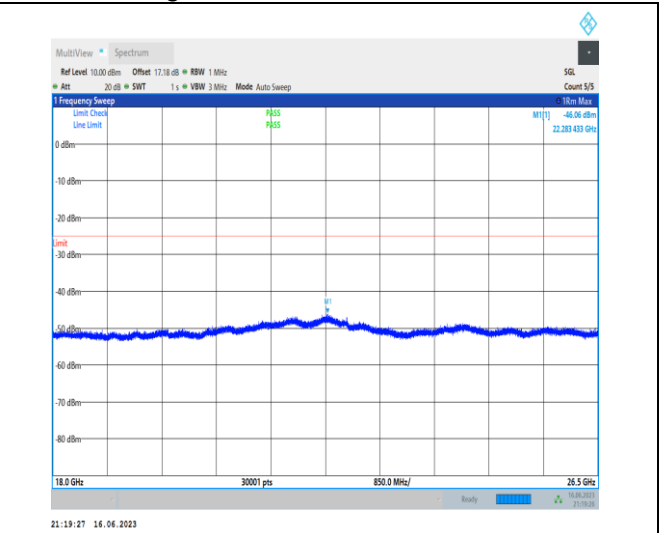
1-N41-PC1-30-100-H-1-DFT-QPSK-Edge\_1RB\_Left  
-1@0-1000-3000-Ant0-2944.60--50.83--25-PASS



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1-N41-PC1-30-100-H-1-DFT-QPSK-Edge\_1RB\_Left-1@0-3000-18000-Ant0-7471.50--41.64--25-PASS



1-N41-PC1-30-100-H-1-DFT-QPSK-Edge\_1RB\_Left-1@0-18000-26500-Ant0-22283.43--46.06--25-PASS



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## Field Strength of Spurious Radiation

Test Band = NR SA Band 41\_ TM1

Test Channel = Low Channel

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 5002.2000       | 42.20          | -45.63      | 31.41    | -67.29      | -25.00      | 42.29       | Horizontal |
| 2               | 7503.3000       | 38.80          | -43.13      | 36.60    | -62.99      | -25.00      | 37.99       | Horizontal |
| 3               | 10004.4000      | 32.82          | -39.23      | 38.20    | -63.47      | -25.00      | 38.47       | Horizontal |
| 4               | 12505.5000      | 26.51          | -36.99      | 38.95    | -66.79      | -25.00      | 41.79       | Horizontal |
| 5               | 15006.6000      | 24.73          | -34.65      | 41.29    | -63.90      | -25.00      | 38.90       | Horizontal |
| 6               | 17507.7000      | 27.68          | -34.95      | 44.59    | -57.94      | -25.00      | 32.94       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 5002.2000       | 41.83          | -45.63      | 31.41    | -67.66      | -25.00      | 42.66       | Vertical |
| 2               | 7503.3000       | 38.90          | -43.13      | 36.60    | -62.89      | -25.00      | 37.89       | Vertical |
| 3               | 10004.4000      | 32.49          | -39.23      | 38.20    | -63.80      | -25.00      | 38.80       | Vertical |
| 4               | 12505.5000      | 27.12          | -36.99      | 38.95    | -66.18      | -25.00      | 41.18       | Vertical |
| 5               | 15006.6000      | 24.18          | -34.65      | 41.29    | -64.45      | -25.00      | 39.45       | Vertical |
| 6               | 17507.7000      | 27.76          | -34.95      | 44.59    | -57.86      | -25.00      | 32.86       | Vertical |



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Test Band = NR SA Band 41\_ TM1

Test Channel = Mid Channel

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 5096.1600       | 40.54          | -45.38      | 31.63    | -68.47      | -25.00      | 43.47       | Horizontal |
| 2               | 7644.2400       | 39.42          | -43.01      | 36.66    | -62.20      | -25.00      | 37.20       | Horizontal |
| 3               | 10192.3200      | 31.50          | -39.47      | 38.30    | -64.94      | -25.00      | 39.94       | Horizontal |
| 4               | 12740.4000      | 28.09          | -36.74      | 39.02    | -64.89      | -25.00      | 39.89       | Horizontal |
| 5               | 15288.4800      | 25.33          | -34.36      | 40.69    | -63.60      | -25.00      | 38.60       | Horizontal |
| 6               | 17836.5600      | 30.89          | -34.59      | 46.07    | -52.89      | -25.00      | 27.89       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 5096.1600       | 40.87          | -45.38      | 31.63    | -68.14      | -25.00      | 43.14       | Vertical |
| 2               | 7644.2400       | 38.17          | -43.01      | 36.66    | -63.45      | -25.00      | 38.45       | Vertical |
| 3               | 10192.3200      | 31.02          | -39.47      | 38.30    | -65.42      | -25.00      | 40.42       | Vertical |
| 4               | 12740.4000      | 27.13          | -36.74      | 39.02    | -65.85      | -25.00      | 40.85       | Vertical |
| 5               | 15288.4800      | 25.01          | -34.36      | 40.69    | -63.92      | -25.00      | 38.92       | Vertical |
| 6               | 17836.5600      | 29.62          | -34.59      | 46.07    | -54.16      | -25.00      | 29.16       | Vertical |



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Test Band = NR SA Band 41\_ TM1

Test Channel = High Channel

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 5190.1800       | 40.43          | -45.29      | 31.86    | -68.26      | -25.00      | 43.26       | Horizontal |
| 2               | 7785.2700       | 38.35          | -42.43      | 36.71    | -62.62      | -25.00      | 37.62       | Horizontal |
| 3               | 10380.3600      | 32.26          | -39.03      | 38.39    | -63.64      | -25.00      | 38.64       | Horizontal |
| 4               | 12975.4500      | 26.84          | -37.28      | 39.09    | -66.60      | -25.00      | 41.60       | Horizontal |
| 5               | 15570.5400      | 25.13          | -35.08      | 40.10    | -65.11      | -25.00      | 40.11       | Horizontal |
| 6               | 17680           | 30.09          | -33.87      | 45.36    | -53.68      | -25.00      | 28.68       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 5190.1800       | 40.56          | -45.29      | 31.86    | -68.13      | -25.00      | 43.13       | Vertical |
| 2               | 7785.2700       | 38.50          | -42.43      | 36.71    | -62.47      | -25.00      | 37.47       | Vertical |
| 3               | 10380.3600      | 31.33          | -39.03      | 38.39    | -64.57      | -25.00      | 39.57       | Vertical |
| 4               | 12975.4500      | 27.28          | -37.28      | 39.09    | -66.16      | -25.00      | 41.16       | Vertical |
| 5               | 15570.5400      | 23.86          | -35.08      | 40.10    | -66.38      | -25.00      | 41.38       | Vertical |
| 6               | 17587.5         | 28.83          | -33.46      | 44.94    | -54.95      | -25.00      | 29.95       | Vertical |



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**Test Band = NR SA UL MIMO Band 41\_ TM1**
**Test Channel = Low Channel**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 5002.2000       | 41.15          | -45.63      | 31.41    | -68.34      | -25.00      | 43.34       | Horizontal |
| 2               | 7503.3000       | 39.12          | -43.13      | 36.60    | -62.67      | -25.00      | 37.67       | Horizontal |
| 3               | 10004.4000      | 32.39          | -39.23      | 38.20    | -63.90      | -25.00      | 38.90       | Horizontal |
| 4               | 12505.5000      | 27.55          | -36.99      | 38.95    | -65.75      | -25.00      | 40.75       | Horizontal |
| 5               | 15006.6000      | 25.00          | -34.65      | 41.29    | -63.63      | -25.00      | 38.63       | Horizontal |
| 6               | 17507.7000      | 27.07          | -34.95      | 44.59    | -58.55      | -25.00      | 33.55       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 5002.2000       | 40.73          | -45.63      | 31.41    | -68.76      | -25.00      | 43.76       | Vertical |
| 2               | 7503.3000       | 38.77          | -43.13      | 36.60    | -63.02      | -25.00      | 38.02       | Vertical |
| 3               | 10004.4000      | 32.60          | -39.23      | 38.20    | -63.69      | -25.00      | 38.69       | Vertical |
| 4               | 12505.5000      | 26.26          | -36.99      | 38.95    | -67.04      | -25.00      | 42.04       | Vertical |
| 5               | 15006.6000      | 24.33          | -34.65      | 41.29    | -64.30      | -25.00      | 39.30       | Vertical |
| 6               | 17507.7000      | 26.60          | -34.95      | 44.59    | -59.02      | -25.00      | 34.02       | Vertical |



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**Test Band = NR SA UL MIMO Band 41\_ TM1**

**Test Channel = Mid Channel**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 5096.1600       | 39.92          | -45.38      | 31.63    | -69.09      | -25.00      | 44.09       | Horizontal |
| 2               | 7644.2400       | 38.08          | -43.01      | 36.66    | -63.54      | -25.00      | 38.54       | Horizontal |
| 3               | 10192.3200      | 31.18          | -39.47      | 38.30    | -65.26      | -25.00      | 40.26       | Horizontal |
| 4               | 12740.4000      | 26.98          | -36.74      | 39.02    | -66.00      | -25.00      | 41.00       | Horizontal |
| 5               | 15288.4800      | 25.12          | -34.36      | 40.69    | -63.81      | -25.00      | 38.81       | Horizontal |
| 6               | 17836.5600      | 29.44          | -34.59      | 46.07    | -54.34      | -25.00      | 29.34       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 5096.1600       | 40.05          | -45.38      | 31.63    | -68.96      | -25.00      | 43.96       | Vertical |
| 2               | 7644.2400       | 39.00          | -43.01      | 36.66    | -62.62      | -25.00      | 37.62       | Vertical |
| 3               | 10192.3200      | 30.94          | -39.47      | 38.30    | -65.50      | -25.00      | 40.50       | Vertical |
| 4               | 12740.4000      | 26.55          | -36.74      | 39.02    | -66.43      | -25.00      | 41.43       | Vertical |
| 5               | 15288.4800      | 24.99          | -34.36      | 40.69    | -63.94      | -25.00      | 38.94       | Vertical |
| 6               | 17836.5600      | 28.48          | -34.59      | 46.07    | -55.30      | -25.00      | 30.30       | Vertical |



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**Test Band = NR SA UL MIMO Band 41\_ TM1**

**Test Channel = High Channel**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 5190.1800       | 40.86          | -45.29      | 31.86    | -67.83      | -25.00      | 42.83       | Horizontal |
| 2               | 7785.2700       | 37.74          | -42.43      | 36.71    | -63.23      | -25.00      | 38.23       | Horizontal |
| 3               | 10380.3600      | 30.61          | -39.03      | 38.39    | -65.29      | -25.00      | 40.29       | Horizontal |
| 4               | 12975.4500      | 26.10          | -37.28      | 39.09    | -67.34      | -25.00      | 42.34       | Horizontal |
| 5               | 15570.5400      | 23.89          | -35.08      | 40.10    | -66.35      | -25.00      | 41.35       | Horizontal |
| 6               | 17744.5         | 29.64          | -34.30      | 45.65    | -54.27      | -25.00      | 29.27       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 5190.1800       | 40.57          | -45.29      | 31.86    | -68.12      | -25.00      | 43.12       | Vertical |
| 2               | 7785.2700       | 37.85          | -42.43      | 36.71    | -63.12      | -25.00      | 38.12       | Vertical |
| 3               | 10380.3600      | 30.41          | -39.03      | 38.39    | -65.49      | -25.00      | 40.49       | Vertical |
| 4               | 12975.4500      | 26.19          | -37.28      | 39.09    | -67.25      | -25.00      | 42.25       | Vertical |
| 5               | 15570.5400      | 23.48          | -35.08      | 40.10    | -66.76      | -25.00      | 41.76       | Vertical |
| 6               | 17588.5         | 27.38          | -33.45      | 44.95    | -56.38      | -25.00      | 31.38       | Vertical |



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Test Band = DC\_5A-n41A\_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               | 5002.2          | 49.88          | -107.58     | -57.70      | -25.00      | 32.70       | 263         | 11        | Horizontal |
| 2               | 7503.3          | 48.65          | -100.34     | -51.69      | -25.00      | 26.69       | 241         | 322       | Horizontal |
| 3               | 10004.4         | 45.27          | -93.89      | -48.62      | -25.00      | 23.62       | 178         | 0         | Horizontal |
| 4               | 12505.5         | 43.81          | -91.38      | -47.57      | -25.00      | 22.57       | 263         | 296       | Horizontal |
| 5               | 15006.6         | 43.44          | -90.07      | -46.63      | -25.00      | 21.63       | 254         | 331       | Horizontal |
| 6               | 17507.7         | 39.88          | -86.50      | -46.62      | -25.00      | 21.62       | 188         | 26        | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 5002.2          | 50.71          | -107.58     | -56.87      | -25.00      | 31.87       | 263         | 331       | Vertical |
| 2               | 7503.3          | 48.33          | -100.34     | -52.01      | -25.00      | 27.01       | 284         | 357       | Vertical |
| 3               | 10004.4         | 45.08          | -93.89      | -48.81      | -25.00      | 23.81       | 176         | 315       | Vertical |
| 4               | 12505.5         | 43.40          | -91.38      | -47.98      | -25.00      | 22.98       | 251         | 176       | Vertical |
| 5               | 15006.6         | 42.65          | -90.07      | -47.42      | -25.00      | 22.42       | 144         | 324       | Vertical |
| 6               | 17507.7         | 39.83          | -86.50      | -46.67      | -25.00      | 21.67       | 196         | 219       | Vertical |



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Test Band = DC\_5A-n41A\_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               | 5096.16         | 49.69          | -106.96     | -57.27      | -25.00      | 32.27       | 263         | 324       | Horizontal |
| 2               | 7644.24         | 48.93          | -99.76      | -50.83      | -25.00      | 25.83       | 254         | 349       | Horizontal |
| 3               | 10192.32        | 44.16          | -93.11      | -48.95      | -25.00      | 23.95       | 186         | 332       | Horizontal |
| 4               | 12740.4         | 44.89          | -91.03      | -46.14      | -25.00      | 21.14       | 284         | 106       | Horizontal |
| 5               | 15288.48        | 42.35          | -90.16      | -47.81      | -25.00      | 22.81       | 175         | 228       | Horizontal |
| 6               | 17836.56        | 40.26          | -84.21      | -43.95      | -25.00      | 18.95       | 266         | 158       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 5096.16         | 49.31          | -106.96     | -57.65      | -25.00      | 32.65       | 142         | 202       | Vertical |
| 2               | 7644.24         | 49.88          | -99.76      | -49.88      | -25.00      | 24.88       | 263         | 218       | Vertical |
| 3               | 10192.32        | 44.69          | -93.11      | -48.42      | -25.00      | 23.42       | 287         | 253       | Vertical |
| 4               | 12740.4         | 43.41          | -91.03      | -47.62      | -25.00      | 22.62       | 174         | 229       | Vertical |
| 5               | 15288.48        | 43.43          | -90.16      | -46.73      | -25.00      | 21.73       | 265         | 333       | Vertical |
| 6               | 17836.56        | 41.67          | -84.21      | -42.54      | -25.00      | 17.54       | 241         | 288       | Vertical |



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Test Band = DC\_5A-n41A\_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               | 5190.18         | 50.11          | -106.82     | -56.71      | -25.00      | 31.71       | 400         | 11        | Horizontal |
| 2               | 7785.27         | 49.17          | -98.90      | -49.73      | -25.00      | 24.73       | 284         | 315       | Horizontal |
| 3               | 10380.36        | 43.44          | -92.87      | -49.43      | -25.00      | 24.43       | 176         | 105       | Horizontal |
| 4               | 12975.45        | 43.12          | -90.59      | -47.47      | -25.00      | 22.47       | 241         | 253       | Horizontal |
| 5               | 15570.54        | 43.19          | -90.76      | -47.57      | -25.00      | 22.57       | 144         | 122       | Horizontal |
| 6               | 17695.7143      | 46.05          | -84.88      | -38.83      | -25.00      | 13.83       | 266         | 217       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 5190.18         | 49.60          | -106.82     | -57.22      | -25.00      | 32.22       | 142         | 58        | Vertical |
| 2               | 7785.27         | 49.08          | -98.90      | -49.82      | -25.00      | 24.82       | 263         | 31        | Vertical |
| 3               | 10380.36        | 43.18          | -92.87      | -49.69      | -25.00      | 24.69       | 285         | 356       | Vertical |
| 4               | 12975.45        | 43.51          | -90.59      | -47.08      | -25.00      | 22.08       | 155         | 340       | Vertical |
| 5               | 15570.54        | 41.76          | -90.76      | -49.00      | -25.00      | 24.00       | 265         | 24        | Vertical |
| 6               | 17832.8571      | 41.95          | -84.22      | -42.27      | -25.00      | 17.27       | 241         | 304       | Vertical |



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Test Band = NR UL CA n25A-n41A\_ 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               | 3702.18         | 48.91          | -111.07     | -62.16      | -25.00      | 37.16       | 163         | 11        | Horizontal |
| 2               | 5002.2          | 49.97          | -107.58     | -57.61      | -25.00      | 32.61       | 251         | 82        | Horizontal |
| 3               | 5553.27         | 50.27          | -106.36     | -56.09      | -25.00      | 31.09       | 174         | 273       | Horizontal |
| 4               | 7404.36         | 49.94          | -100.77     | -50.83      | -25.00      | 25.83       | 156         | 143       | Horizontal |
| 5               | 7503.3          | 49.53          | -100.34     | -50.81      | -25.00      | 25.81       | 265         | 82        | Horizontal |
| 6               | 10004.4         | 46.44          | -93.89      | -47.45      | -25.00      | 22.45       | 241         | 221       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3702.18         | 49.31          | -111.07     | -61.76      | -25.00      | 36.76       | 263         | 80        | Vertical |
| 2               | 5002.2          | 50.26          | -107.58     | -57.32      | -25.00      | 32.32       | 254         | 88        | Vertical |
| 3               | 5553.27         | 50.47          | -106.36     | -55.89      | -25.00      | 30.89       | 174         | 37        | Vertical |
| 4               | 7404.36         | 48.16          | -100.77     | -52.61      | -25.00      | 27.61       | 185         | 211       | Vertical |
| 5               | 7503.3          | 49.09          | -100.34     | -51.25      | -25.00      | 26.25       | 265         | 334       | Vertical |
| 6               | 10004.4         | 45.04          | -93.89      | -48.85      | -25.00      | 23.85       | 235         | 114       | Vertical |



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Test Band = NR UL CA n25A-n41A\_ 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               | 3742.18         | 49.29          | -110.86     | -61.57      | -25.00      | 36.57       | 163         | 359       | Horizontal |
| 2               | 5096.16         | 50.69          | -106.96     | -56.27      | -25.00      | 31.27       | 251         | 133       | Horizontal |
| 3               | 5613.27         | 50.72          | -106.14     | -55.42      | -25.00      | 30.42       | 142         | 281       | Horizontal |
| 4               | 7484.36         | 48.22          | -100.43     | -52.21      | -25.00      | 27.21       | 263         | 211       | Horizontal |
| 5               | 7644.24         | 50.77          | -99.76      | -48.99      | -25.00      | 23.99       | 254         | 256       | Horizontal |
| 6               | 10192.32        | 43.64          | -93.11      | -49.47      | -25.00      | 24.47       | 188         | 359       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3742.18         | 48.86          | -110.86     | -62.00      | -25.00      | 37.00       | 142         | 162       | Vertical |
| 2               | 5096.16         | 49.31          | -106.96     | -57.65      | -25.00      | 32.65       | 263         | 360       | Vertical |
| 3               | 5613.27         | 50.19          | -106.14     | -55.95      | -25.00      | 30.95       | 254         | 110       | Vertical |
| 4               | 7484.36         | 48.56          | -100.43     | -51.87      | -25.00      | 26.87       | 184         | 180       | Vertical |
| 5               | 7644.24         | 49.32          | -99.76      | -50.44      | -25.00      | 25.44       | 163         | 329       | Vertical |
| 6               | 10192.32        | 43.39          | -93.11      | -49.72      | -25.00      | 24.72       | 244         | 359       | Vertical |



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 t (86-512) 62992980 sgs.china@sgs.com

Test Band = NR UL CA n25A-n41A\_ 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               | 3792.18         | 49.71          | -110.61     | -60.90      | -25.00      | 35.90       | 263         | 154       | Horizontal |
| 2               | 5190.18         | 50.36          | -106.82     | -56.46      | -25.00      | 31.46       | 241         | 343       | Horizontal |
| 3               | 5688.27         | 49.83          | -105.81     | -55.98      | -25.00      | 30.98       | 175         | 11        | Horizontal |
| 4               | 7584.36         | 49.43          | -99.90      | -50.47      | -25.00      | 25.47       | 263         | 54        | Horizontal |
| 5               | 7785.27         | 48.23          | -98.90      | -50.67      | -25.00      | 25.67       | 284         | 360       | Horizontal |
| 6               | 10380.36        | 42.78          | -92.87      | -50.09      | -25.00      | 25.09       | 144         | 154       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3792.18         | 49.39          | -110.61     | -61.22      | -25.00      | 36.22       | 263         | 11        | Vertical |
| 2               | 5190.18         | 49.85          | -106.82     | -56.97      | -25.00      | 31.97       | 241         | 169       | Vertical |
| 3               | 5688.27         | 49.44          | -105.81     | -56.37      | -25.00      | 31.37       | 175         | 358       | Vertical |
| 4               | 7584.36         | 49.01          | -99.90      | -50.89      | -25.00      | 25.89       | 263         | 135       | Vertical |
| 5               | 7785.27         | 49.01          | -98.90      | -49.89      | -25.00      | 24.89       | 241         | 256       | Vertical |
| 6               | 10380.36        | 43.56          | -92.87      | -49.31      | -25.00      | 24.31       | 196         | 350       | Vertical |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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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 |
|------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| N41  | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | VH      | NT          | 0.200000      | 0.000077        | PASS    |
| N41  | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | VN      | NT          | -4.400000     | -0.001697       | PASS    |
| N41  | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | VL      | NT          | -0.800000     | -0.000309       | PASS    |
| N41  | 30  | 100       | CP-QPSK     | M       | Outer_Full | VH      | NT          | 0.200000      | 0.000077        | PASS    |
| N41  | 30  | 100       | CP-QPSK     | M       | Outer_Full | VN      | NT          | 4.400000      | 0.001697        | PASS    |
| N41  | 30  | 100       | CP-QPSK     | M       | Outer_Full | VL      | NT          | -4.600000     | -0.001774       | PASS    |



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Frequency Error VS. Temperature

| Temperature |     |           |             |         |            |         |             |               |                 |         |
|-------------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band        | SCS | Bandwidth | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N41         | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | -30         | -3.200000     | -0.001234       | PASS    |
| N41         | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | -20         | -1.000000     | -0.000386       | PASS    |
| N41         | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | -10         | -3.900000     | -0.001504       | PASS    |
| N41         | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | 0           | -2.700000     | -0.001041       | PASS    |
| N41         | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | 10          | -3.000000     | -0.001157       | PASS    |
| N41         | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | 20          | -2.100000     | -0.000810       | PASS    |
| N41         | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | 30          | -2.500000     | -0.000964       | PASS    |
| N41         | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | 40          | -1.600000     | -0.000617       | PASS    |
| N41         | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | 50          | -1.800000     | -0.000694       | PASS    |
| N41         | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | -30         | 2.400000      | 0.000926        | PASS    |
| N41         | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | -20         | -5.400000     | -0.002083       | PASS    |
| N41         | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | -10         | -1.300000     | -0.000501       | PASS    |
| N41         | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | 0           | -1.600000     | -0.000617       | PASS    |
| N41         | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | 10          | -2.400000     | -0.000926       | PASS    |
| N41         | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | 20          | -2.100000     | -0.000810       | PASS    |
| N41         | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | 30          | 1.600000      | 0.000617        | PASS    |
| N41         | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | 40          | 0.300000      | 0.000116        | PASS    |
| N41         | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | 50          | -1.800000     | -0.000694       | PASS    |



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**Test Result for MIMO**

**Frequency Error VS. Voltage**

| Voltage |     |           |             |         |            |         |             |                |                 |         |
|---------|-----|-----------|-------------|---------|------------|---------|-------------|----------------|-----------------|---------|
| Band    | SCS | Bandwidth | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation (Hz) | Deviation (ppm) | Verdict |
| N41     | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | VH      | NT          | -0.200000      | -0.000077       | PASS    |
| N41     | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | VN      | NT          | 2.300000       | 0.000887        | PASS    |
| N41     | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | VL      | NT          | -3.200000      | -0.001234       | PASS    |
| N41     | 30  | 100       | CP-QPSK     | M       | Outer_Full | VH      | NT          | -5.500000      | -0.002121       | PASS    |
| N41     | 30  | 100       | CP-QPSK     | M       | Outer_Full | VN      | NT          | 0.700000       | 0.000270        | PASS    |
| N41     | 30  | 100       | CP-QPSK     | M       | Outer_Full | VL      | NT          | -2.800000      | -0.001080       | PASS    |

**Frequency Error VS. Temperature**

| Temperature |     |           |             |         |            |         |             |                |                 |         |
|-------------|-----|-----------|-------------|---------|------------|---------|-------------|----------------|-----------------|---------|
| Band        | SCS | Bandwidth | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation (Hz) | Deviation (ppm) | Verdict |
| N41         | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | -30         | -4.300000      | -0.001658       | PASS    |
| N41         | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | -20         | -3.500000      | -0.001350       | PASS    |
| N41         | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | -10         | -2.300000      | -0.000887       | PASS    |
| N41         | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | 0           | -3.700000      | -0.001427       | PASS    |
| N41         | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | 10          | -4.300000      | -0.001658       | PASS    |
| N41         | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | 20          | -2.800000      | -0.001080       | PASS    |
| N41         | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | 30          | -12.400000     | -0.004782       | PASS    |
| N41         | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | 40          | 1.200000       | 0.000463        | PASS    |
| N41         | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | 50          | -0.900000      | -0.000347       | PASS    |
| N41         | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | -30         | 7.000000       | 0.002700        | PASS    |
| N41         | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | -20         | -5.500000      | -0.002121       | PASS    |
| N41         | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | -10         | 3.300000       | 0.001273        | PASS    |
| N41         | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | 0           | -1.100000      | -0.000424       | PASS    |
| N41         | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | 10          | -1.800000      | -0.000694       | PASS    |
| N41         | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | 20          | 1.400000       | 0.000540        | PASS    |
| N41         | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | 30          | -5.100000      | -0.001967       | PASS    |
| N41         | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | 40          | -3.600000      | -0.001388       | PASS    |
| N41         | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | 50          | -2.400000      | -0.000926       | PASS    |

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