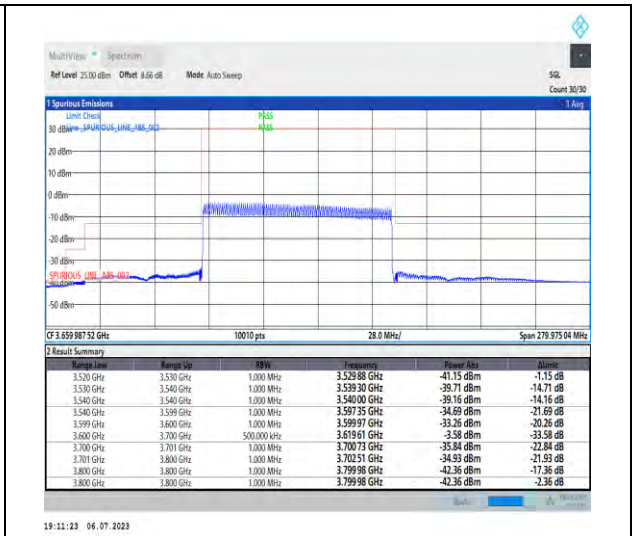
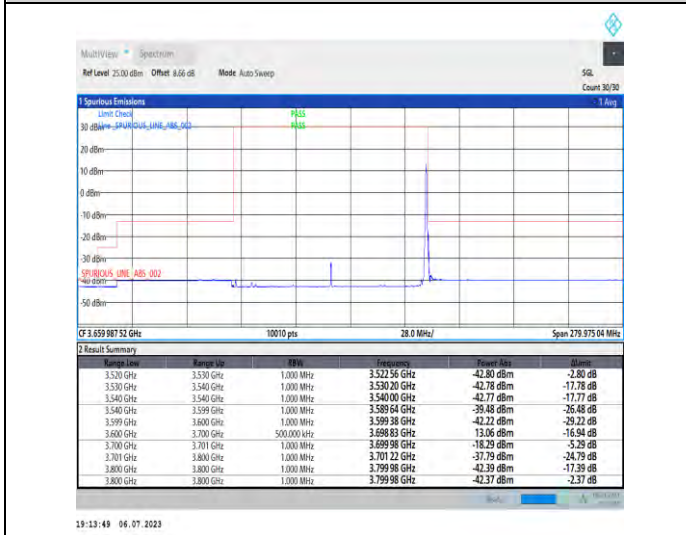


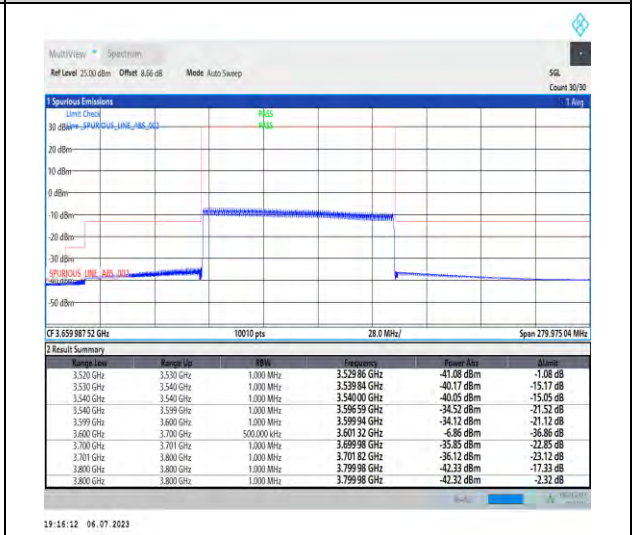
1-N48-PC3-30-100-H-2-DFT-PI2BPSK-Edge_1RB_Rig ht-1@272-Ant3-1--PASS-see graph



1-N48-PC3-30-100-H-3-DFT-PI2BPSK-Outer_Full -51@0-Ant3-1--PASS-see graph



1-N48-PC3-30-100-H-5-CP-QPSK-Edge_1RB_Right-1 @272-Ant3-1--PASS-see graph



1-N48-PC3-30-100-H-6-CP-QPSK-Outer_Full-273 @0-Ant3-1--PASS-see graph



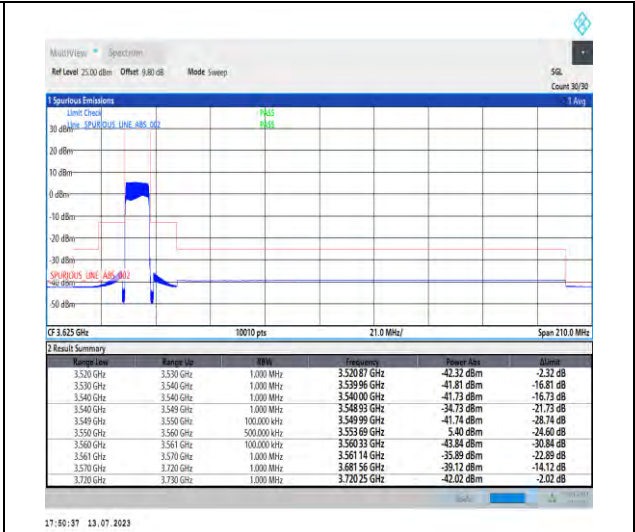
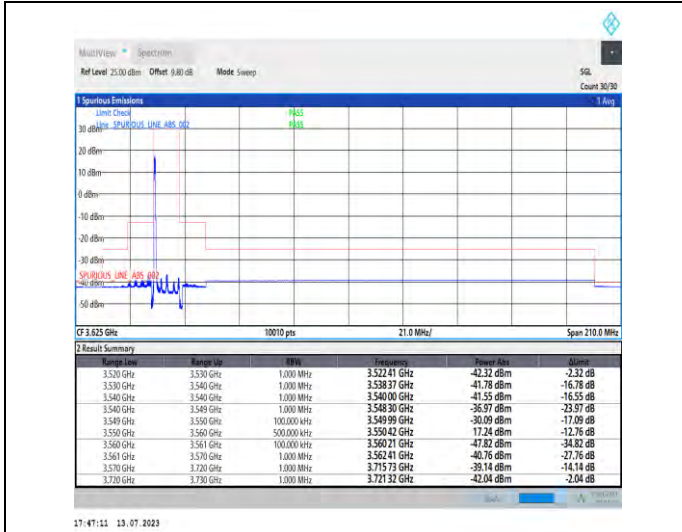
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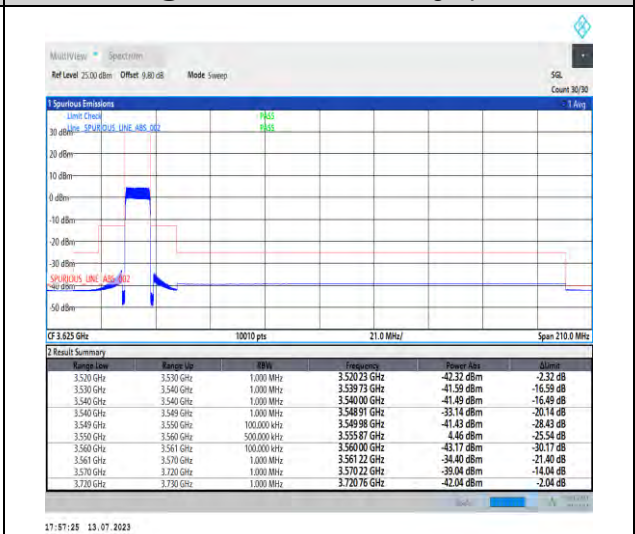
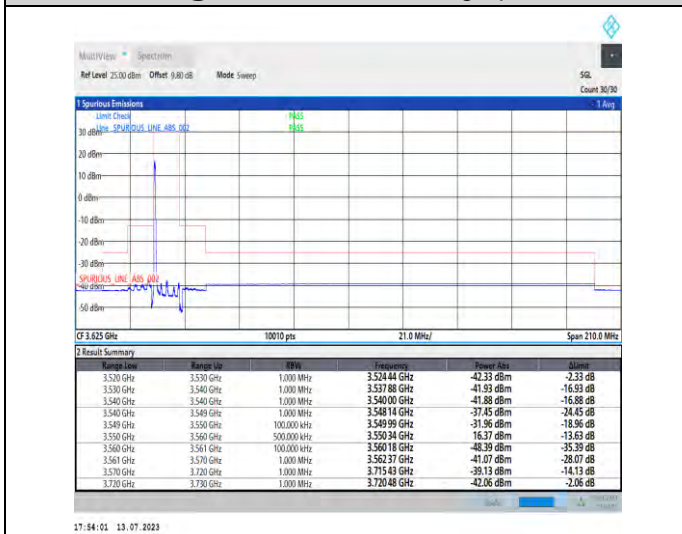
Band Edge for MIMO ANT3

Test Graphs



1-N48-PC3-30-10-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant3-1--PASS-see graph

1-N48-PC3-30-10-L-3-DFT-PI2BPSK-Outer_Full-24@0-Ant3-1--PASS-see graph



1-N48-PC3-30-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant3-1--PASS-see graph

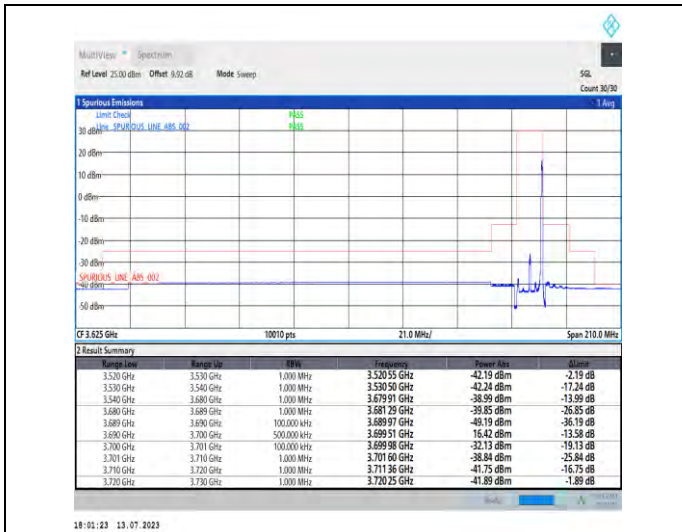
1-N48-PC3-30-10-L-6-CP-QPSK-Outer_Full-24@0-Ant3-1--PASS-see graph



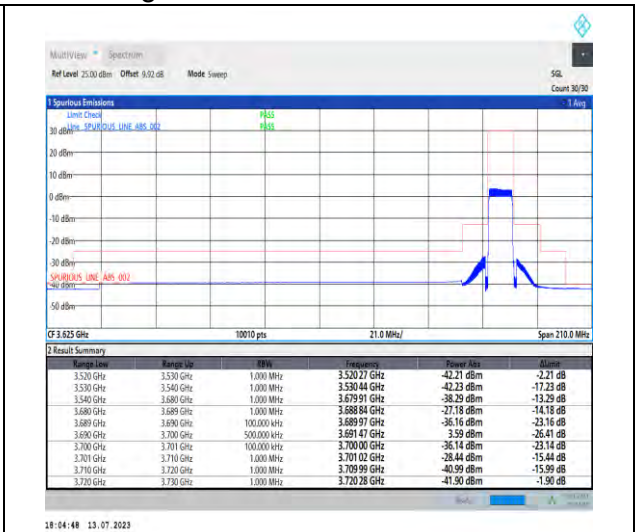
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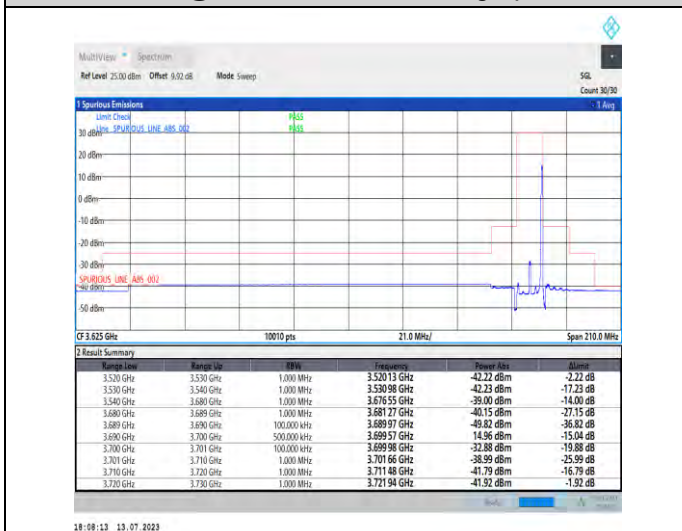
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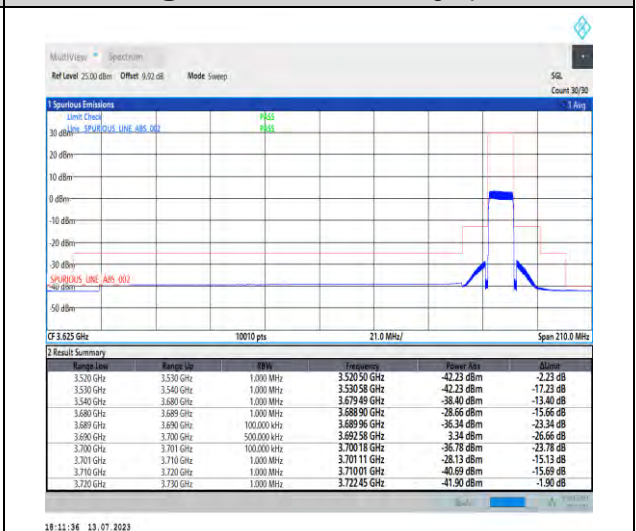
1-N48-PC3-30-10-H-2-DFT-PI2BPSK-Edge_1RB_Right-t-1@23-Ant3-1--PASS-see graph



1-N48-PC3-30-10-H-3-DFT-PI2BPSK-Outer_Full-2-4@0-Ant3-1--PASS-see graph



1-N48-PC3-30-10-H-5-CP-QPSK-Edge_1RB_Right-1@23-Ant3-1--PASS-see graph



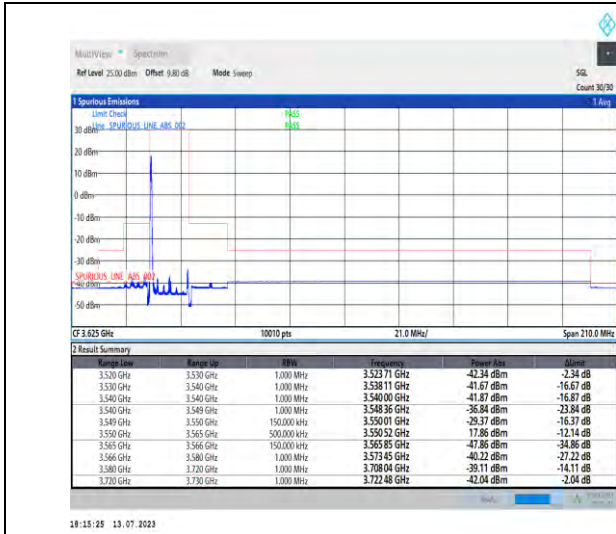
1-N48-PC3-30-10-H-6-CP-QPSK-Outer_Full-24@0-Ant3-1--PASS-see graph



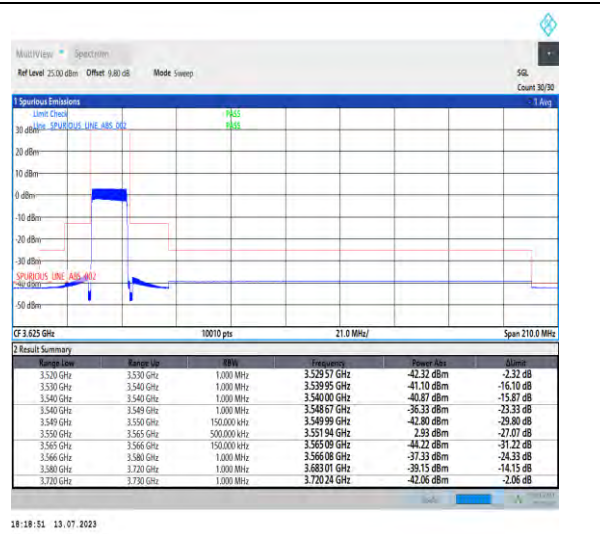
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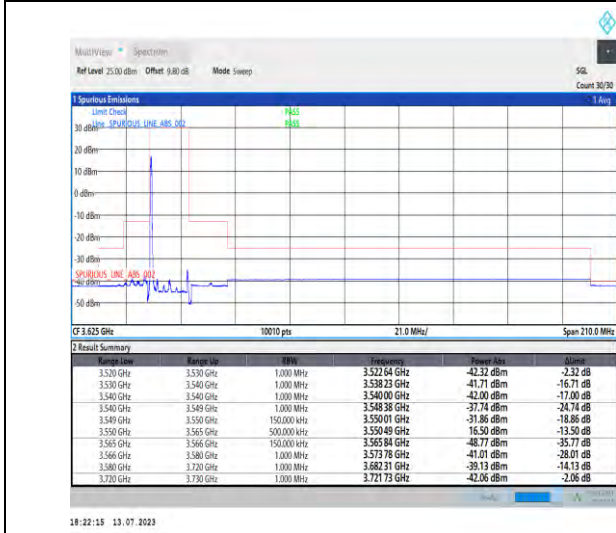
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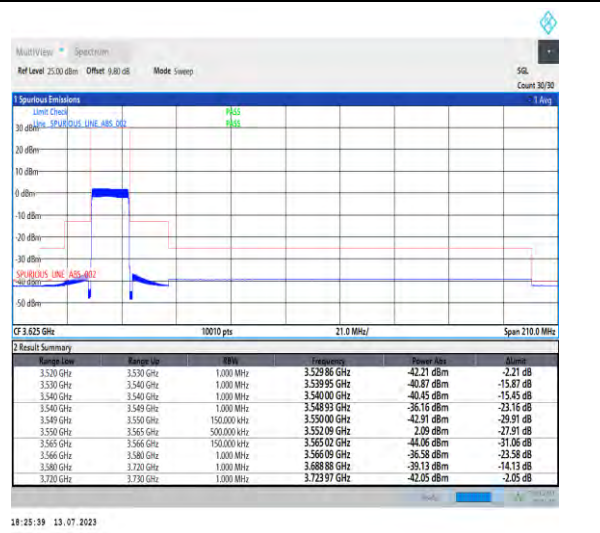
1-N48-PC3-30-15-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant3-1--PASS-see graph



1-N48-PC3-30-15-L-3-DFT-PI2BPSK-Outer_Full-36@0Ant3-1--PASS-see graph



1-N48-PC3-30-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant3-1--PASS-see graph



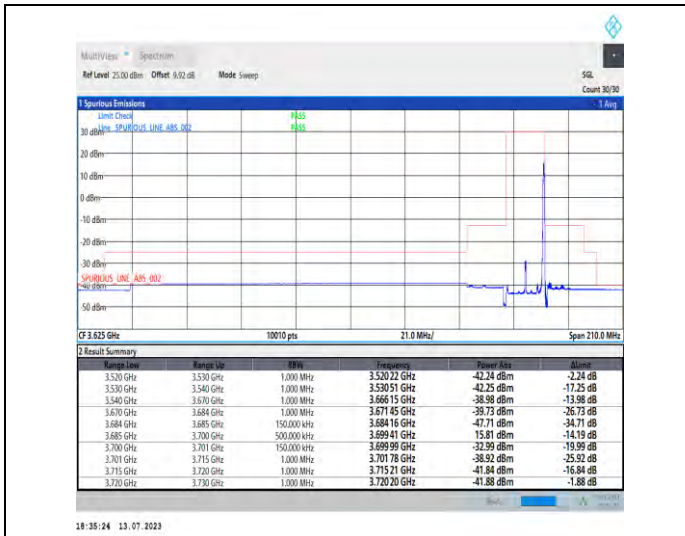
1-N48-PC3-30-15-L-6-CP-QPSK-Outer_Full-38@0-Ant3-1--PASS-see graph



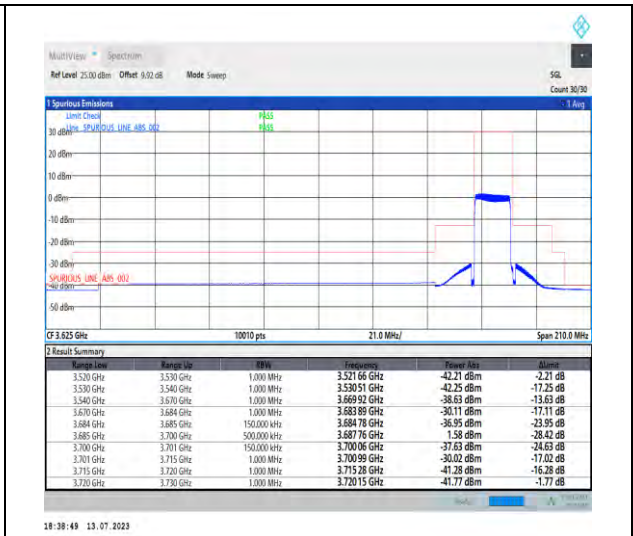
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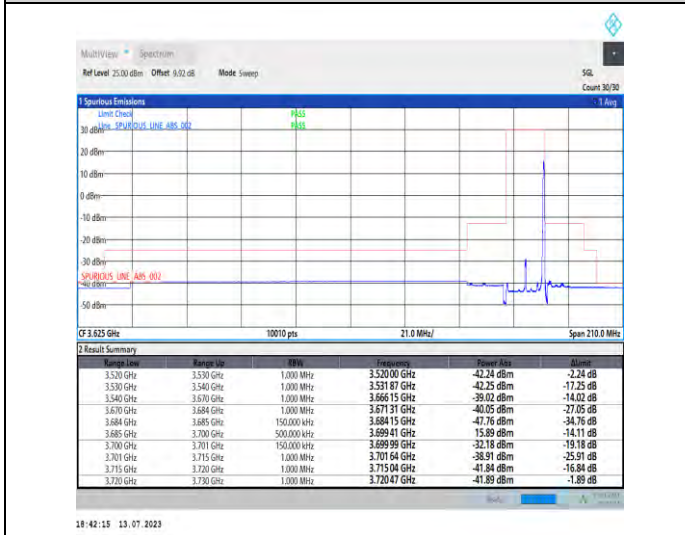
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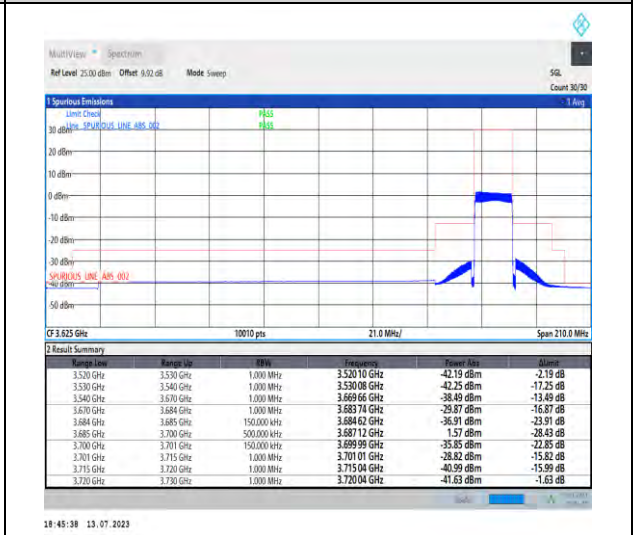
1-N48-PC3-30-15-H-2-DFT-PI2BPSK-Edge_1RB_Right
-1@37-Ant3-1--PASS-see graph



1-N48-PC3-30-15-H-3-DFT-PI2BPSK-Outer_Full-36@0Ant3-1--PASS-see graph



1-N48-PC3-30-15-H-5-CP-QPSK-Edge_1RB_Right-1@37-Ant3-1--PASS-see graph



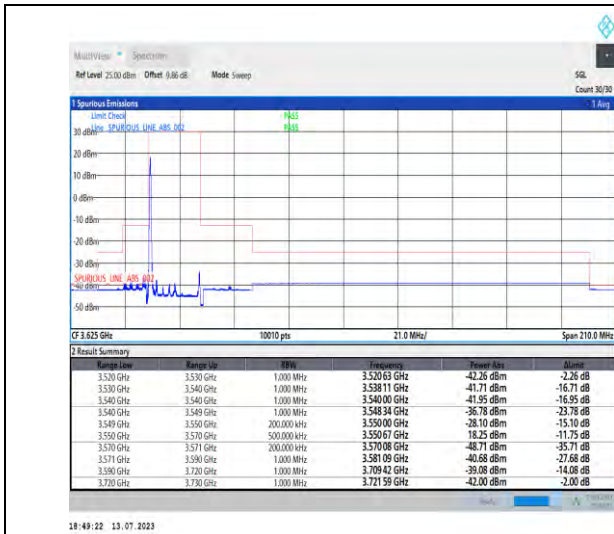
1-N48-PC3-30-15-H-6-CP-QPSK-Outer_Full-38@0-Ant3-1--PASS-see graph



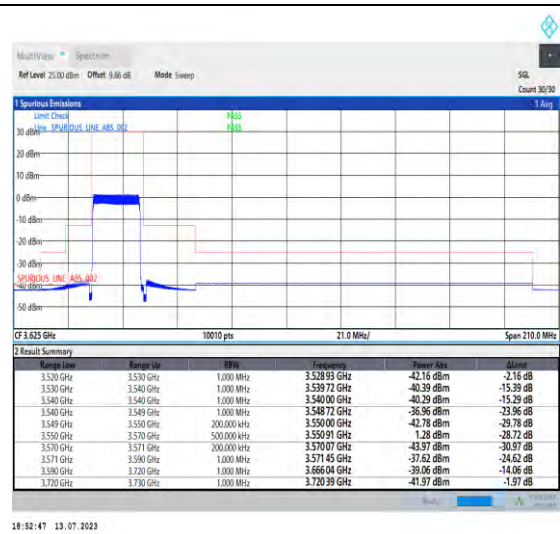
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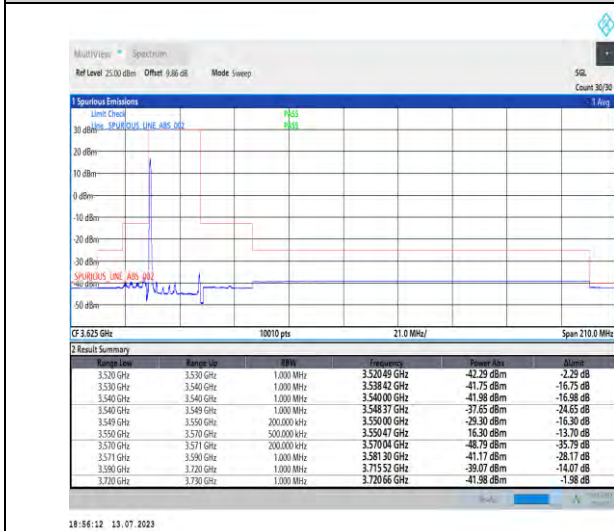
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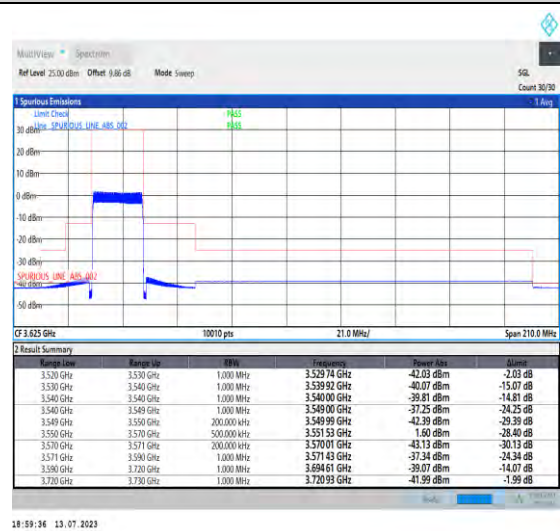
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1-N48-PC3-30-20-L-3-DFT-PI2BPSK-Outer_Full-50@0-Ant3-1--PASS-see graph



1-N48-PC3-30-20-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant3-1--PASS-see graph

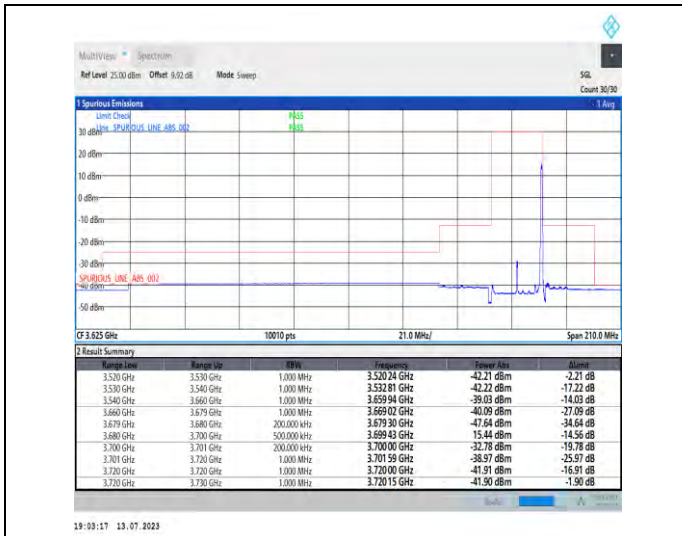


1-N48-PC3-30-20-L-6-CP-QPSK-Outer_Full-51@0-Ant3-1--PASS-see graph

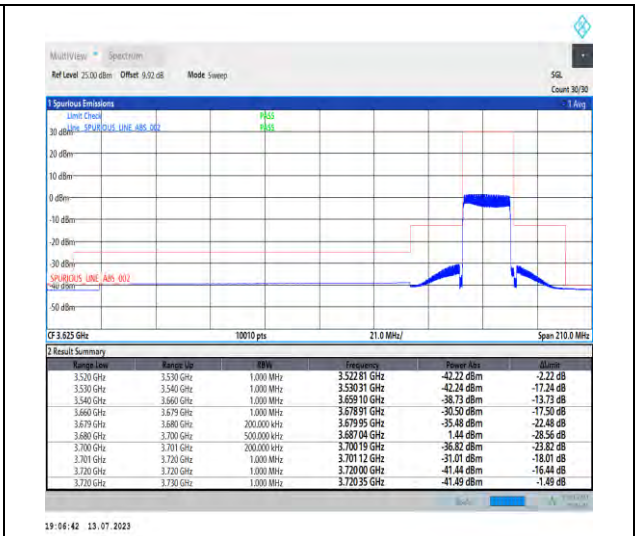


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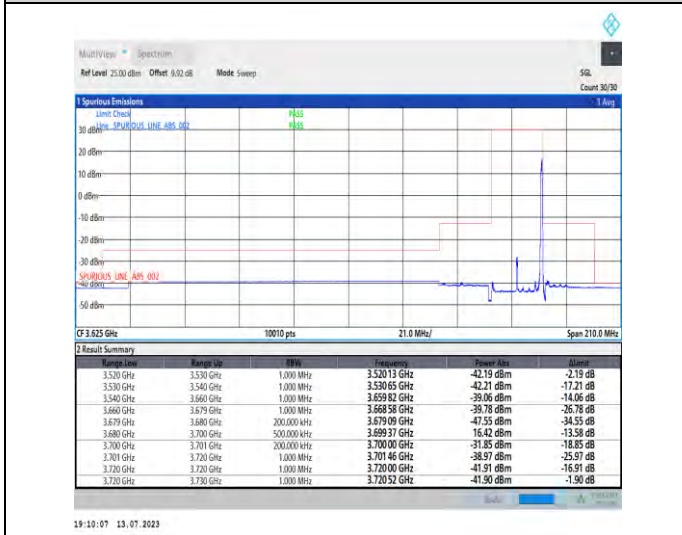
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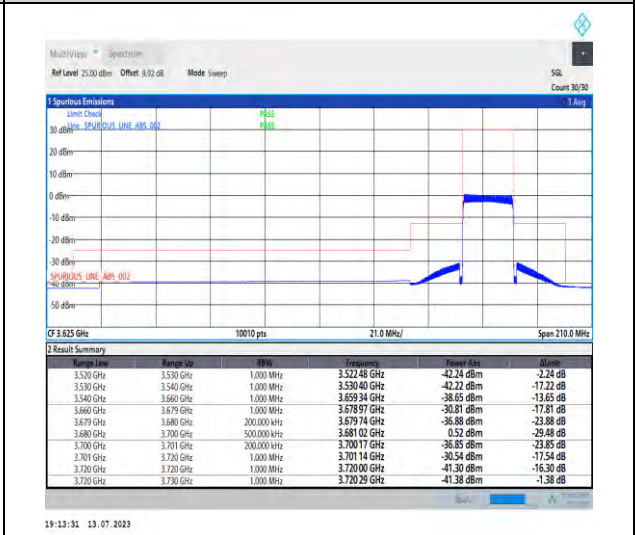
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1-N48-PC3-30-20-H-3-DFT-PI2BPSK-Outer_Full-50@0-Ant3-1--PASS-see graph



1-N48-PC3-30-20-H-5-CP-QPSK-Edge_1RB_Right-1@50-Ant3-1--PASS-see graph



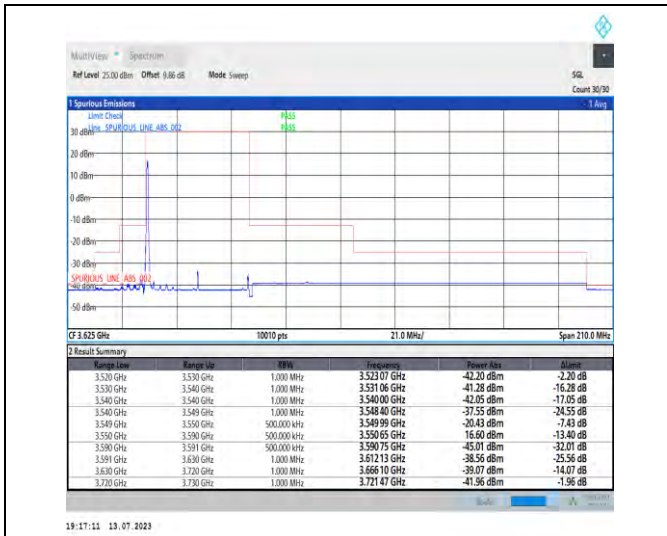
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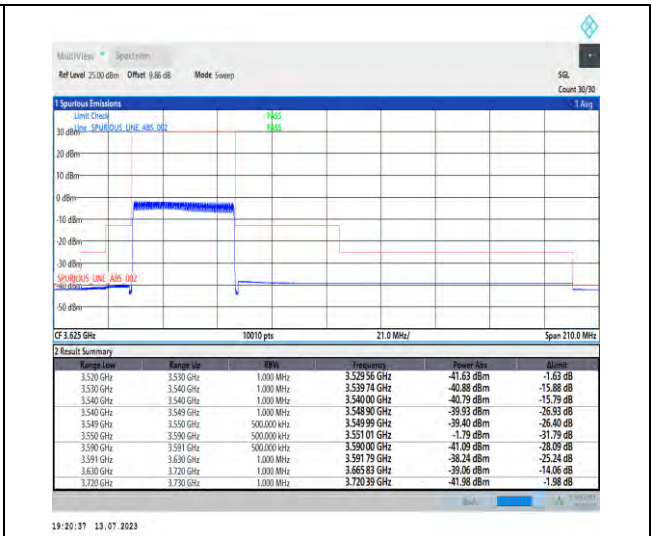
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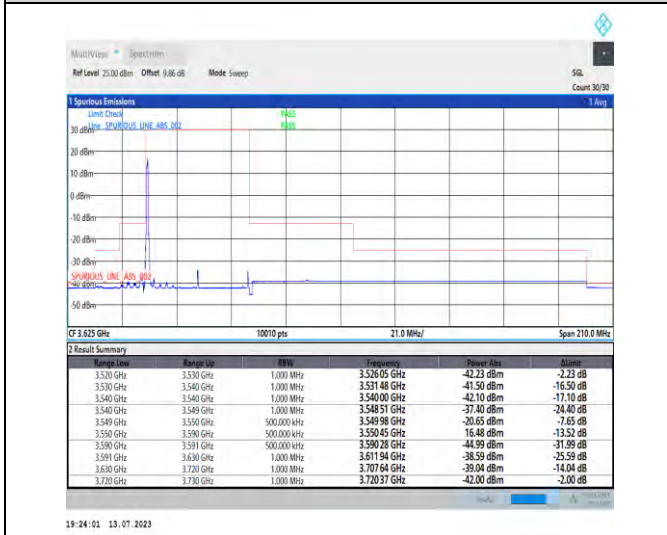
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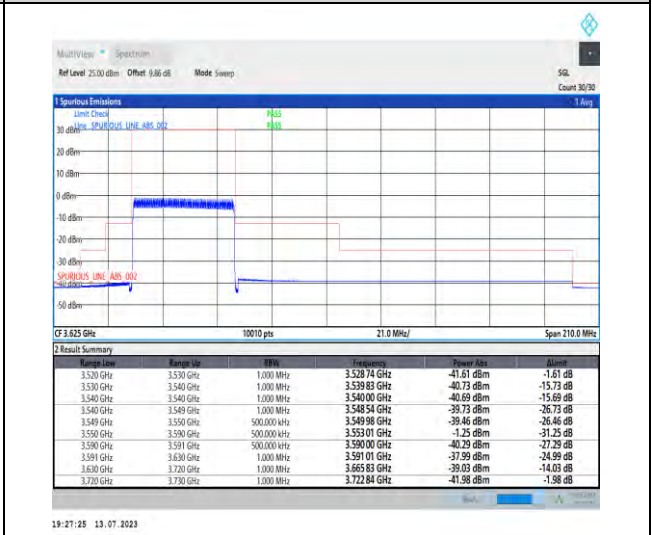
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 -1@0-Ant3-1--PASS-see graph



1-N48-PC3-30-40-L-3-DFT-PI2BPSK-Outer_Full-10
 0@0-Ant3-1--PASS-see graph



1-N48-PC3-30-40-L-4-CP-QPSK-Edge_1RB_Left-1@
 0-Ant3-1--PASS-see graph



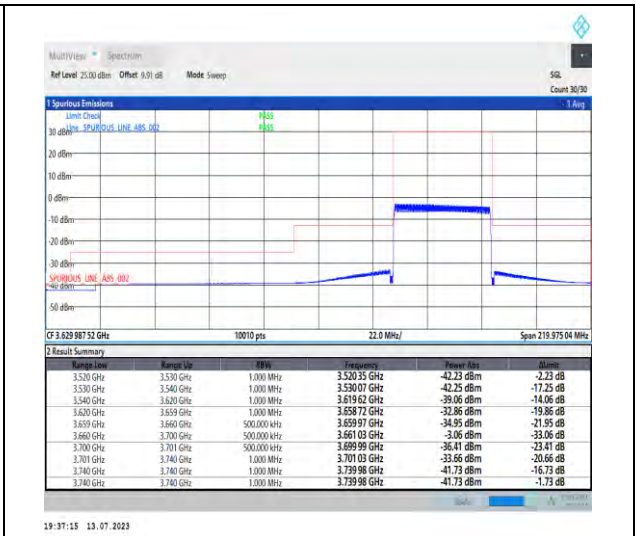
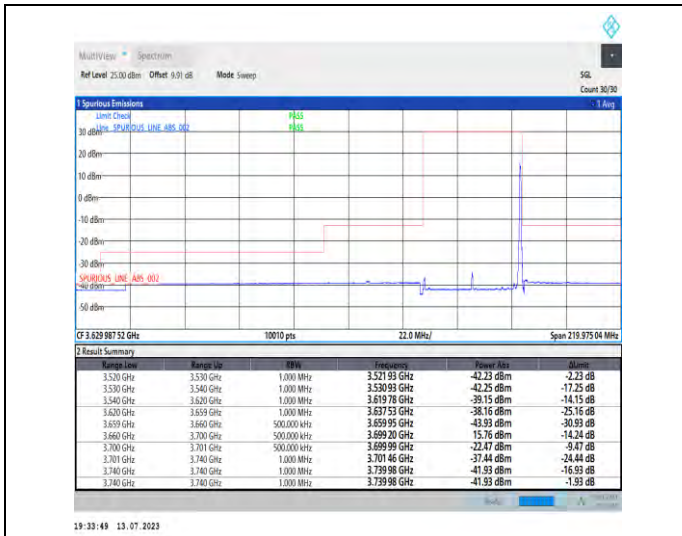
1-N48-PC3-30-40-L-6-CP-QPSK-Outer_Full-106@0
 -Ant3-1--PASS-see graph



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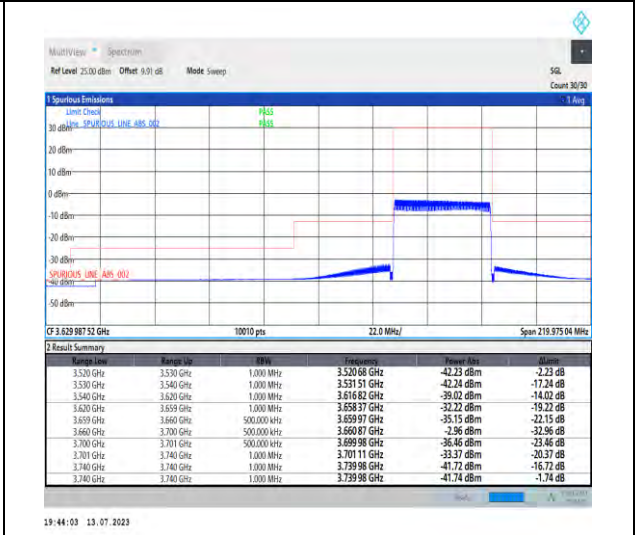
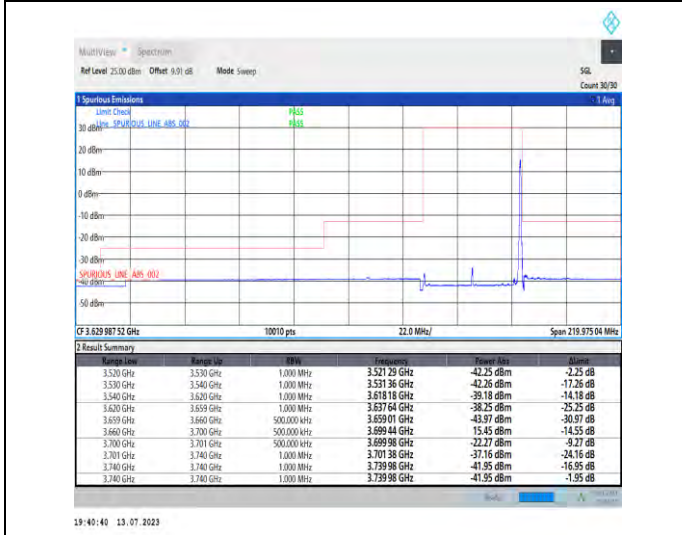
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1-N48-PC3-30-40-H-2-DFT-PI2BPSK-Edge_1RB_Right
t-1@105-Ant3-1--PASS-see graph

1-N48-PC3-30-40-H-3-DFT-PI2BPSK-Outer_Full-1
00@0-Ant3-1--PASS-see graph



1-N48-PC3-30-40-H-5-CP-QPSK-Edge_1RB_Right-1
@105-Ant3-1--PASS-see graph

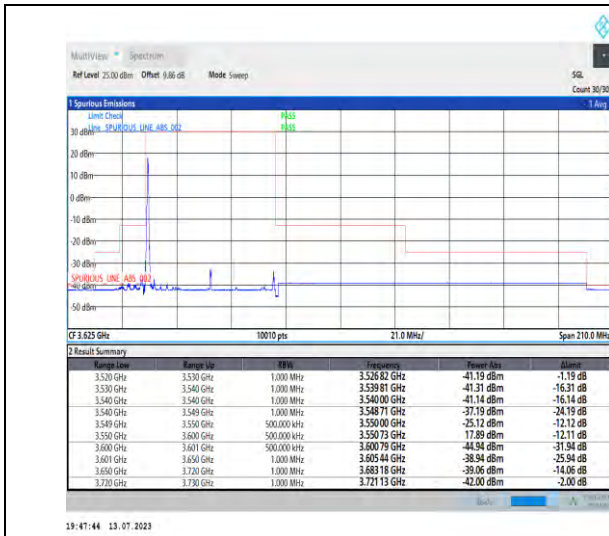
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@0-Ant3-1--PASS-see graph



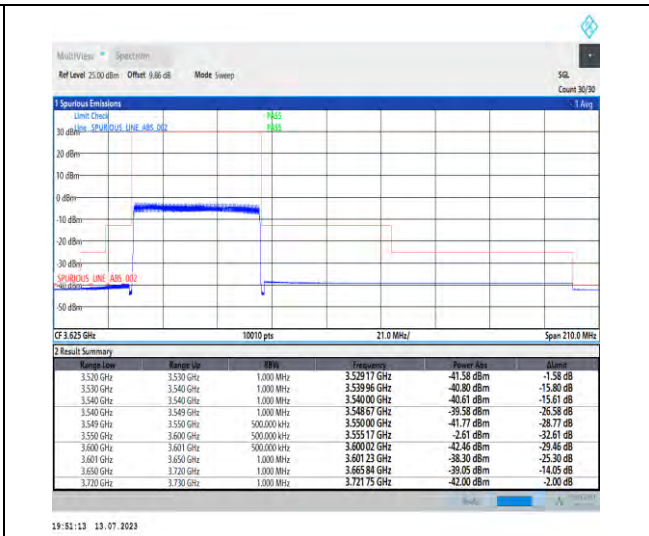
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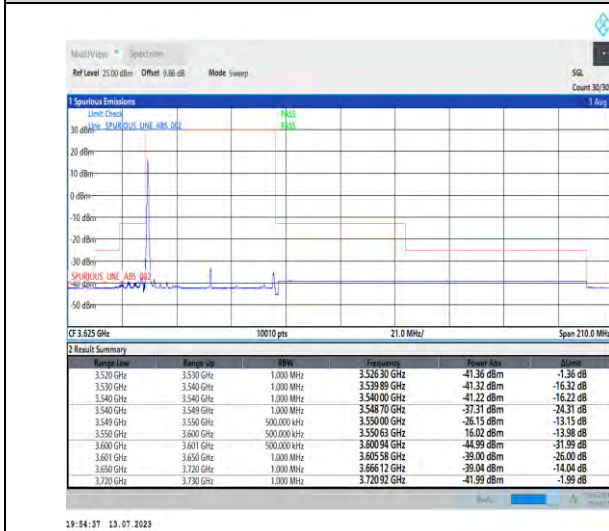
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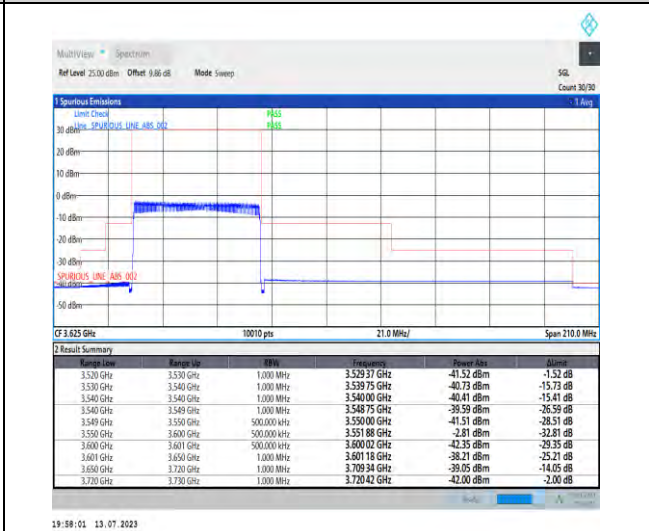
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-1@0-Ant3-1--PASS-see graph



1-N48-PC3-30-50-L-3-DFT-PI2BPSK-Outer_Full-12
8@0-Ant3-1--PASS-see graph



1-N48-PC3-30-50-L-4-CP-QPSK-Edge_1RB_Left-1@
0-Ant3-1--PASS-see graph

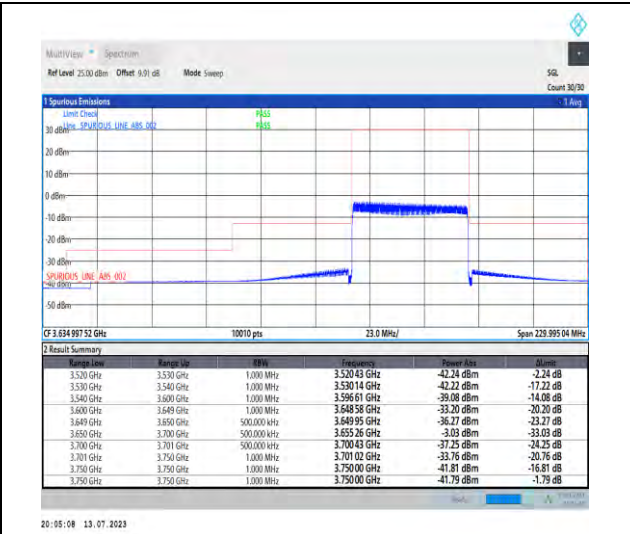
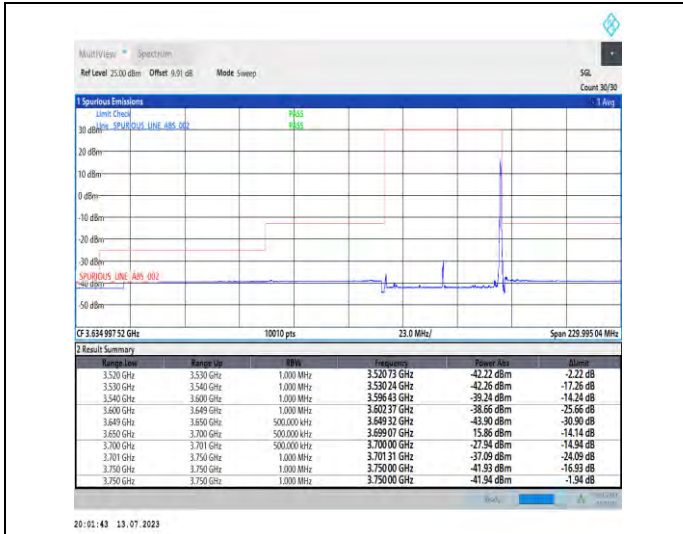


1-N48-PC3-30-50-L-6-CP-QPSK-Outer_Full-133@0
-Ant3-1--PASS-see graph



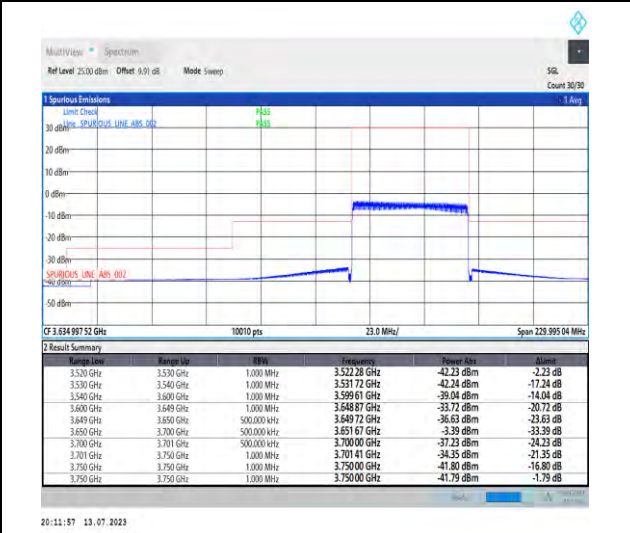
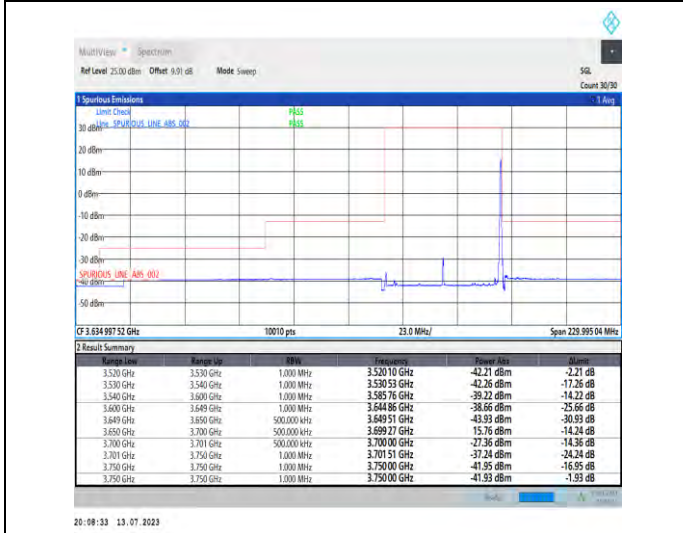
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1-N48-PC3-30-50-H-2-DFT-PI2BPSK-Edge_1RB_Right
 t-1@132-Ant3-1--PASS-see graph

1-N48-PC3-30-50-H-3-DFT-PI2BPSK-Outer_Full-1
 28@0-Ant3-1--PASS-see graph



1-N48-PC3-30-50-H-5-CP-QPSK-Edge_1RB_Right-1
 @132-Ant3-1--PASS-see graph

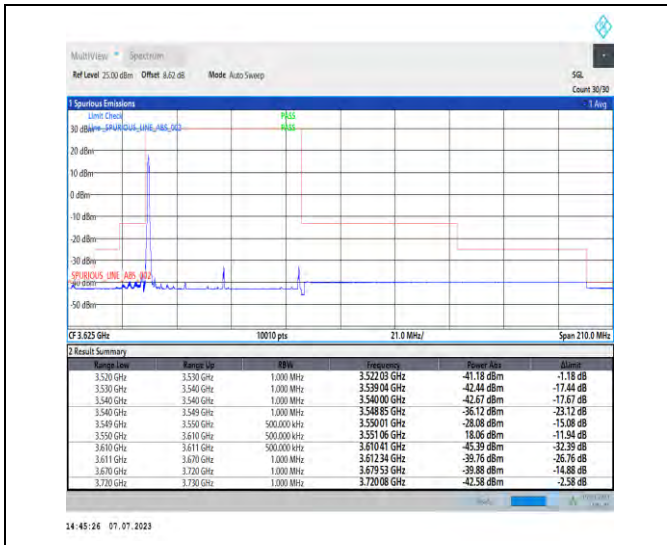
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 @0-Ant3-1--PASS-see graph



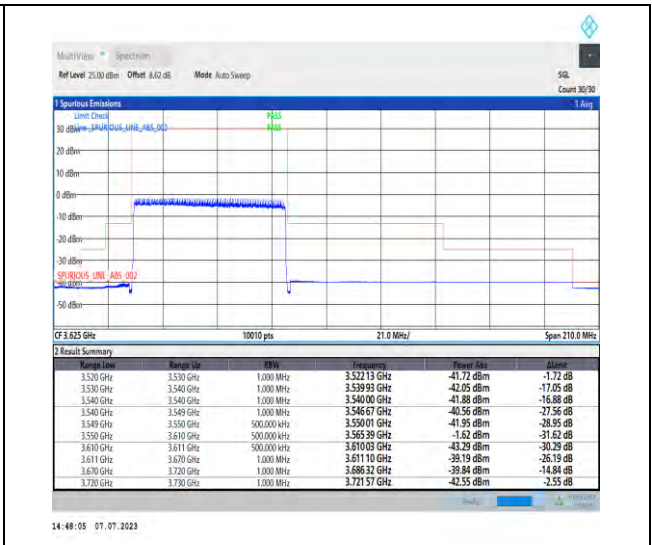
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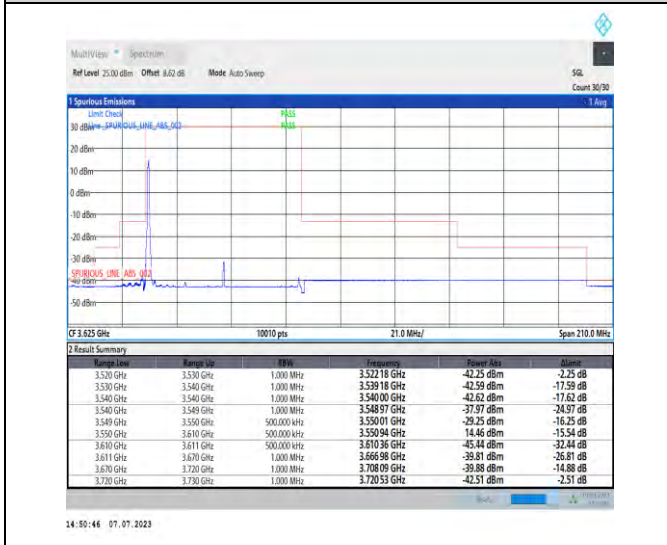
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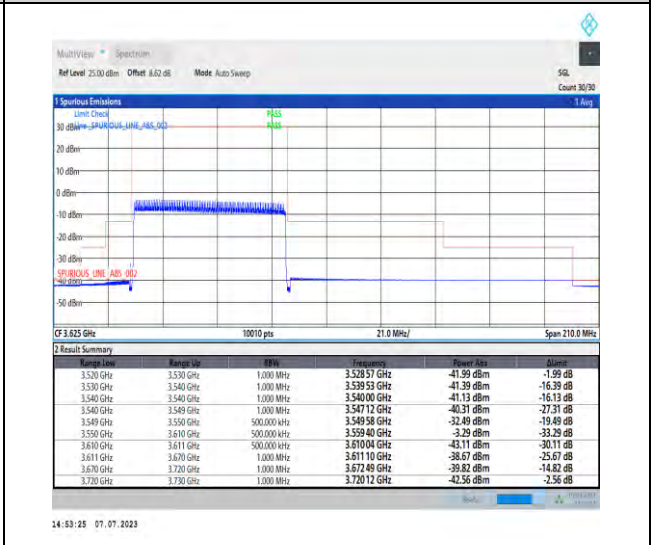
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 -1@0-Ant3-1--PASS-see graph



1-N48-PC3-30-60-L-3-DFT-PI2BPSK-Outer_Full-16
 2@0-Ant3-1--PASS-see graph



1-N48-PC3-30-60-L-4-CP-QPSK-Edge_1RB_Left-1@
 0-Ant3-1--PASS-see graph



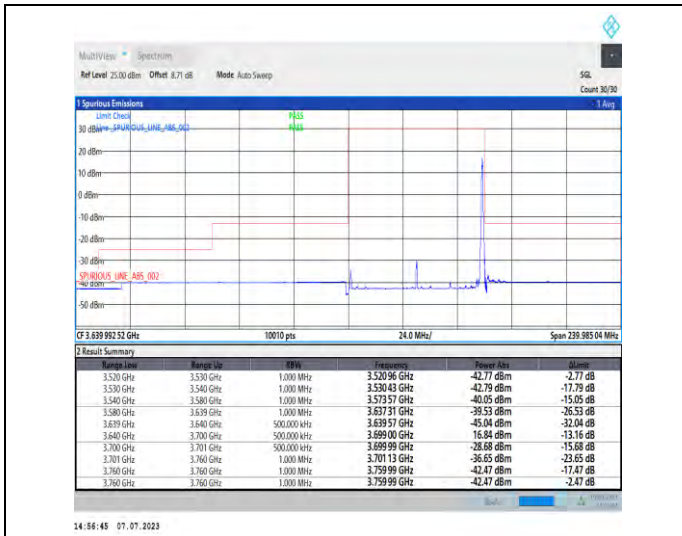
1-N48-PC3-30-60-L-6-CP-QPSK-Outer_Full-162@0
 -Ant3-1--PASS-see graph



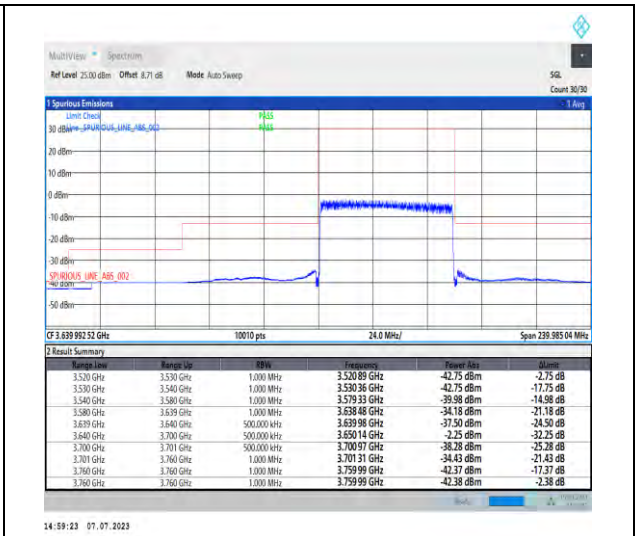
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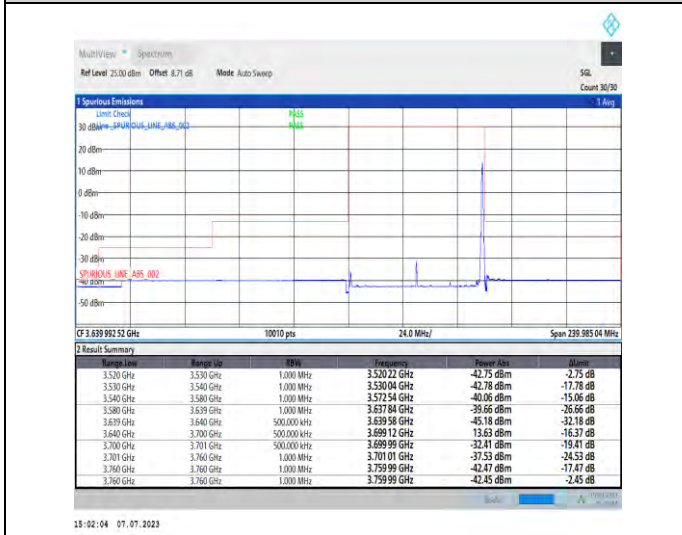
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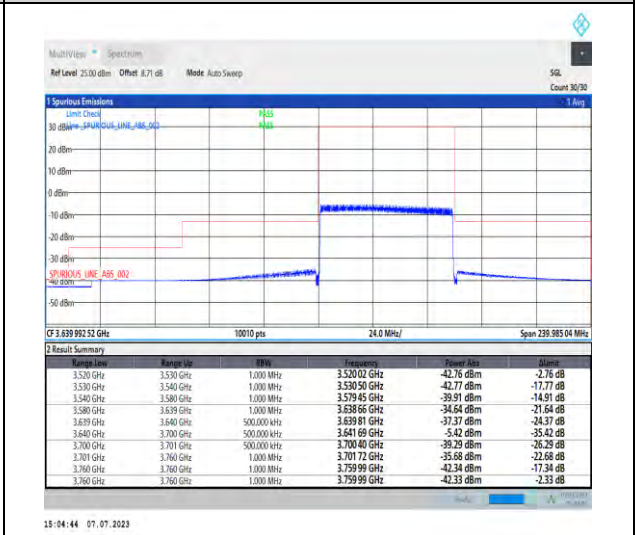
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1-N48-PC3-30-60-H-3-DFT-PI2BPSK-Outer_Full-62@0-Ant3-1--PASS-see graph



1-N48-PC3-30-60-H-5-CP-QPSK-Edge_1RB_Right-1@161-Ant3-1--PASS-see graph



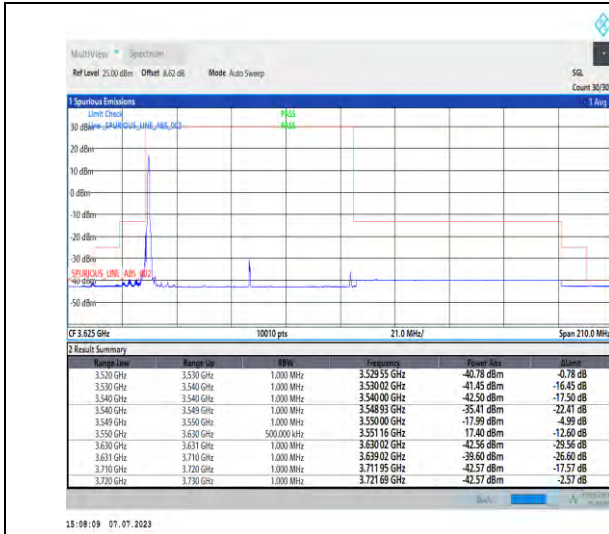
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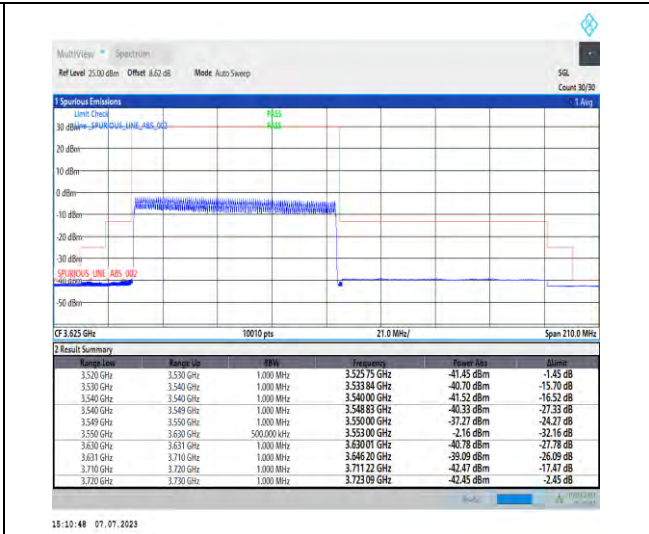
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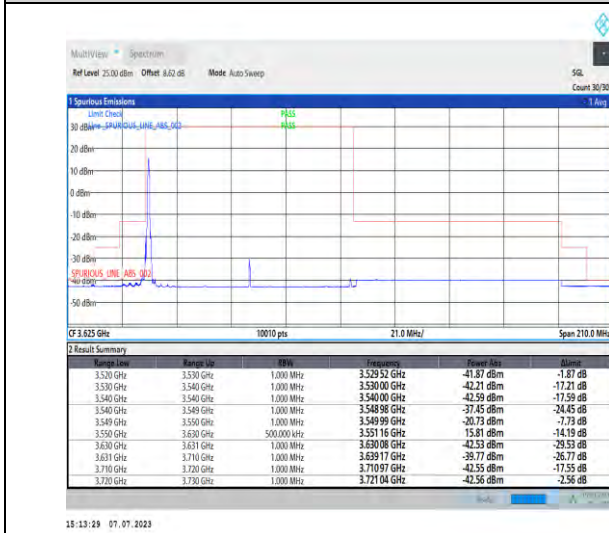
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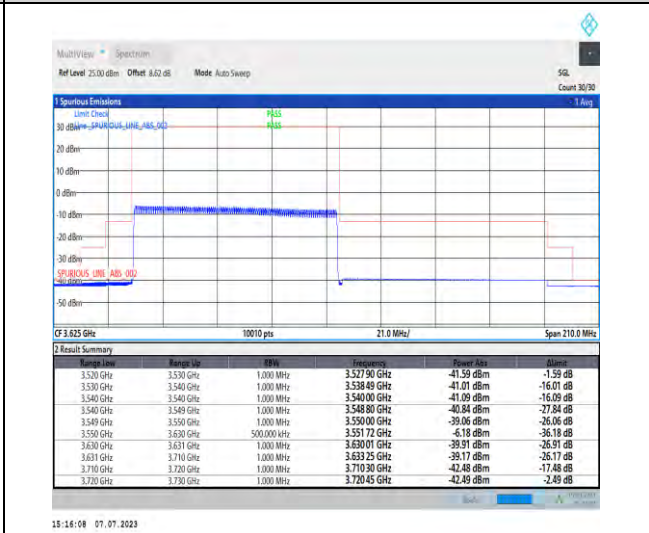
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-1@0-Ant3-1--PASS-see graph



1-N48-PC3-30-80-L-3-DFT-PI2BPSK-Outer_Full-10
0@0-Ant3-1--PASS-see graph



1-N48-PC3-30-80-L-4-CP-QPSK-Edge_1RB_Left-1@
0-Ant3-1--PASS-see graph



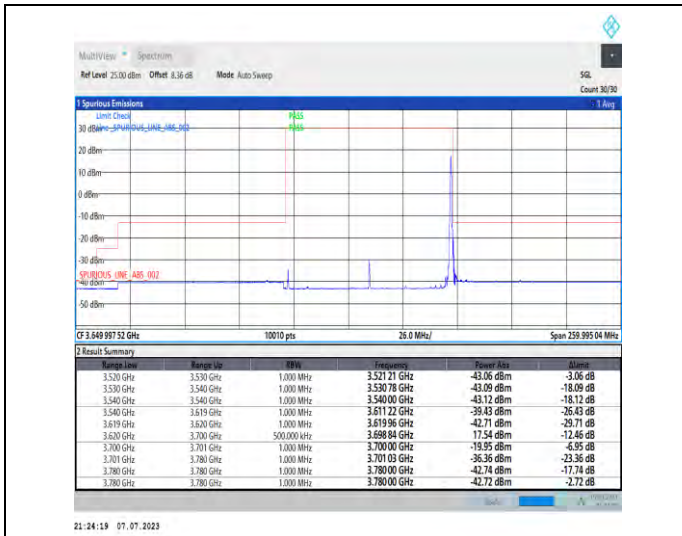
1-N48-PC3-30-80-L-6-CP-QPSK-Outer_Full-217@
0-Ant3-1--PASS-see graph



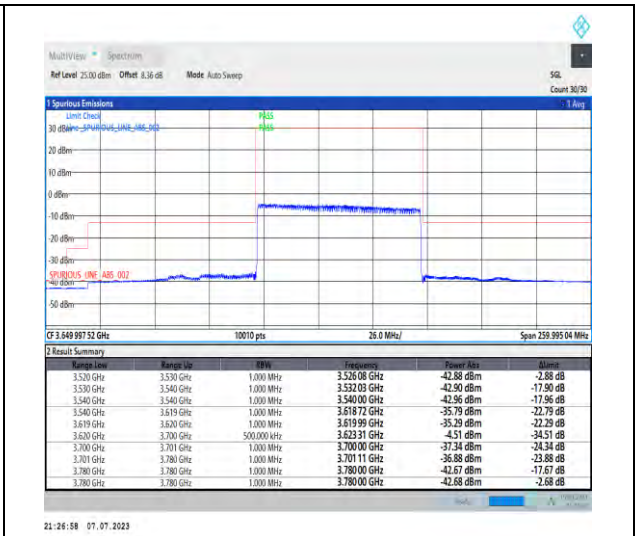
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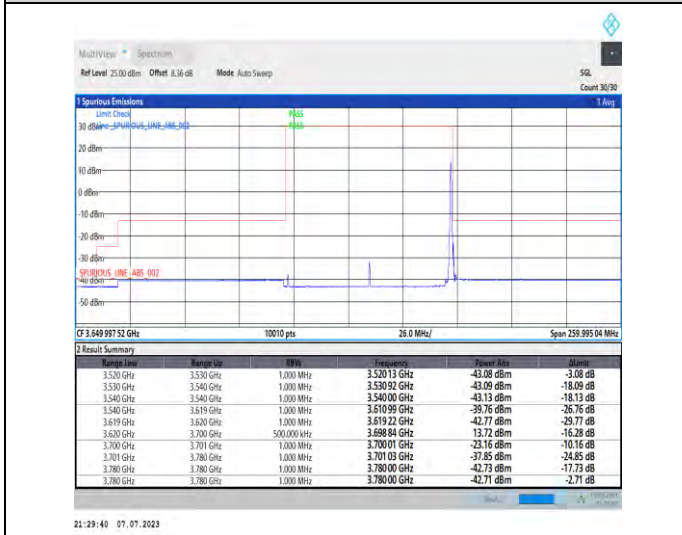
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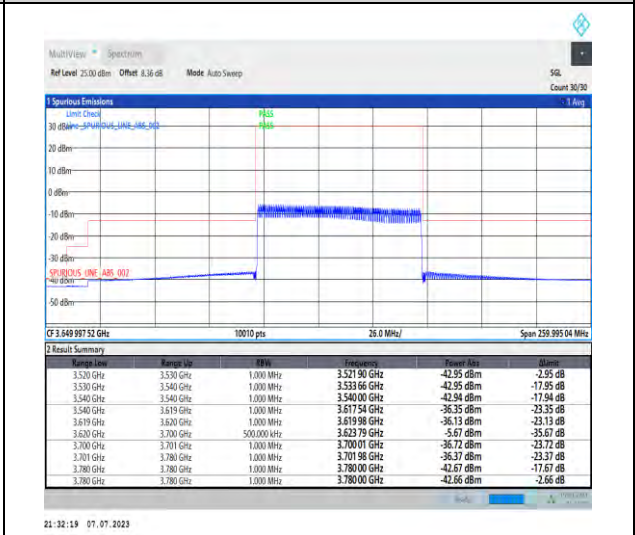
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1-N48-PC3-30-80-H-3-DFT-PI2BPSK-Outer_Full-100@0-Ant3-1--PASS-see graph



1-N48-PC3-30-80-H-5-CP-QPSK-Edge_1RB_Right-1@216-Ant3-1--PASS-see graph



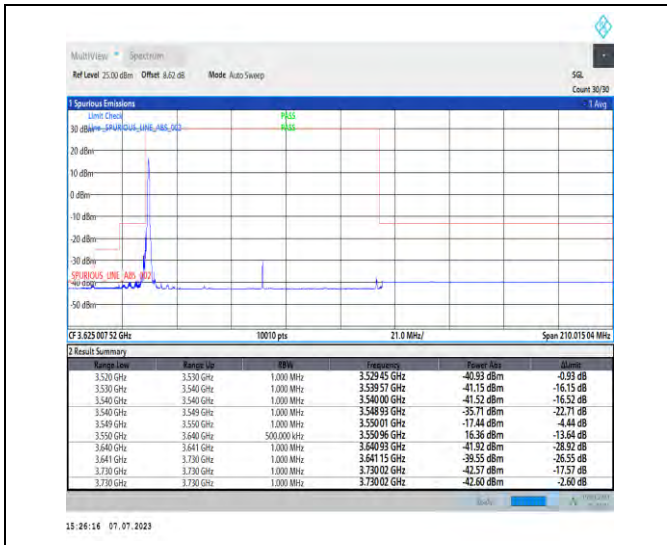
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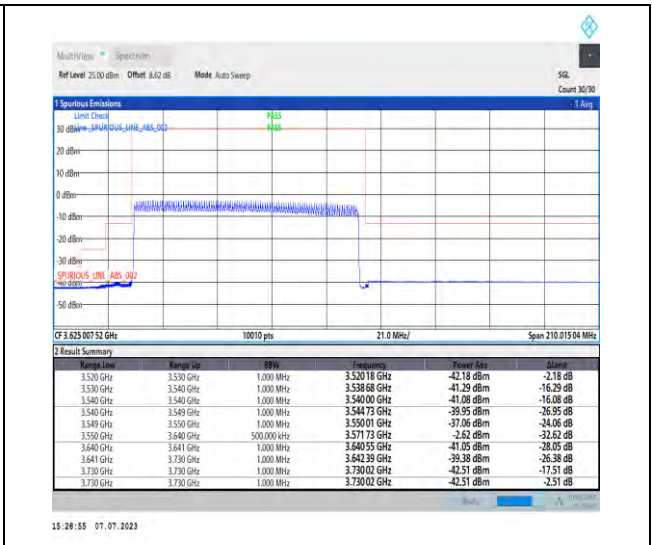
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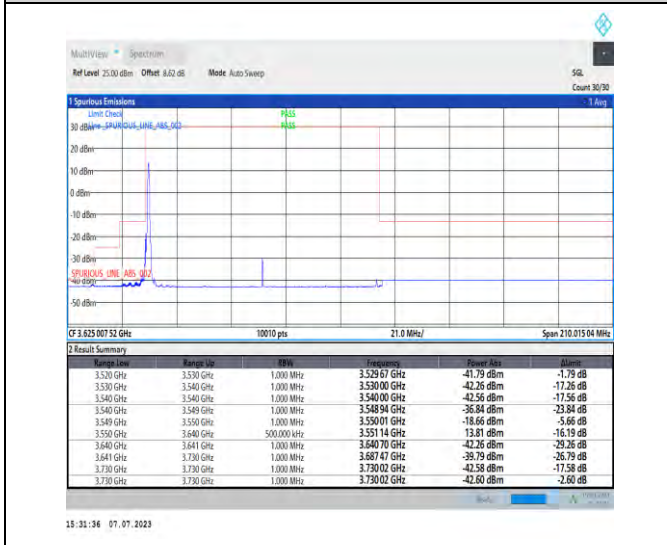
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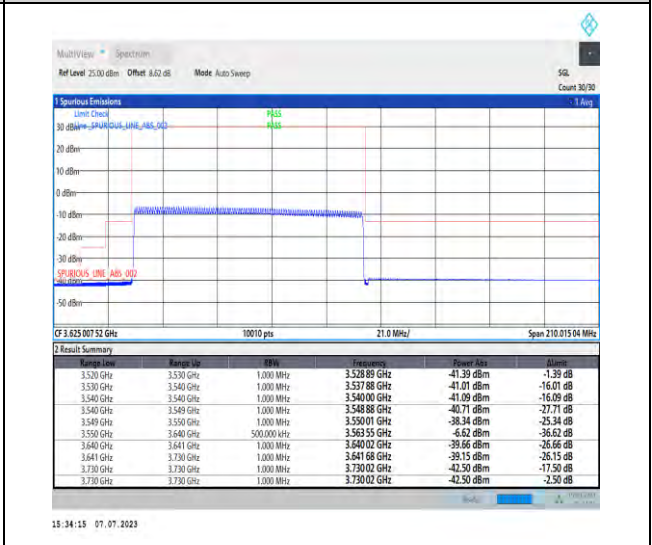
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-1@0-Ant3-1--PASS-see graph



1-N48-PC3-30-90-L-3-DFT-PI2BPSK-Outer_Full-24
0@0-Ant3-1--PASS-see graph



1-N48-PC3-30-90-L-4-CP-QPSK-Edge_1RB_Left-1@
0-Ant3-1--PASS-see graph



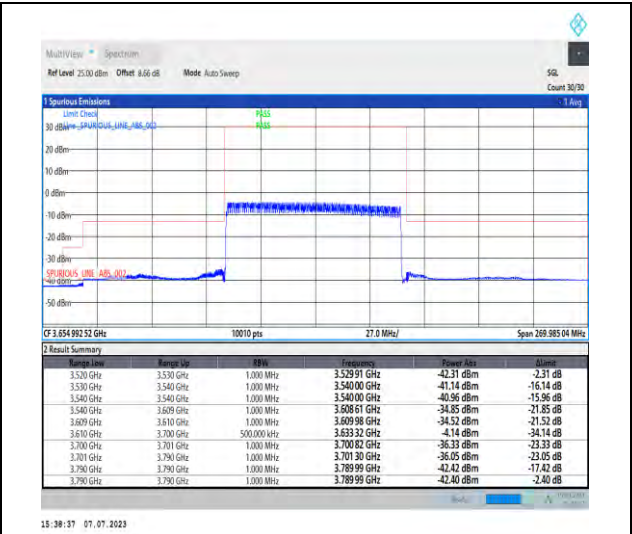
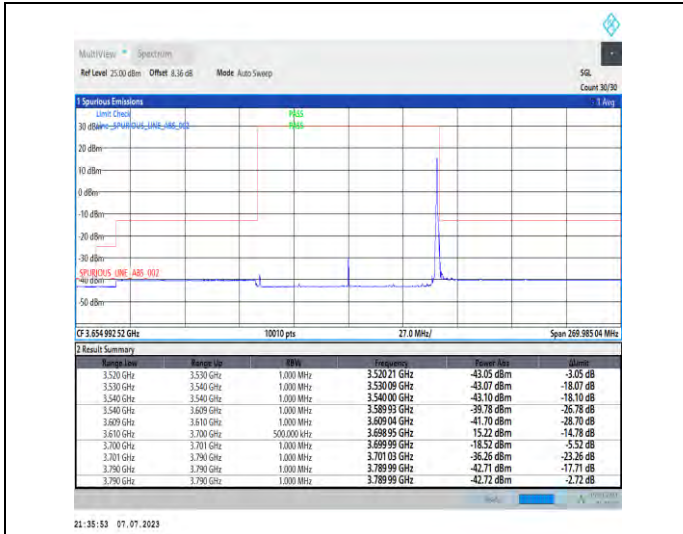
1-N48-PC3-30-90-L-6-CP-QPSK-Outer_Full-245@
0-Ant3-1--PASS-see graph



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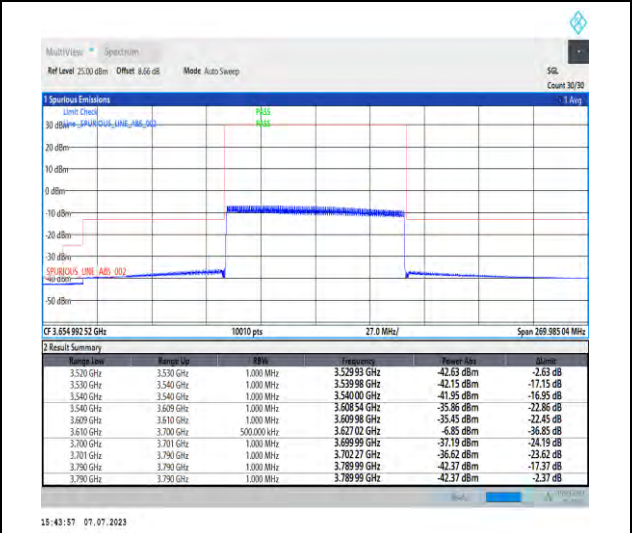
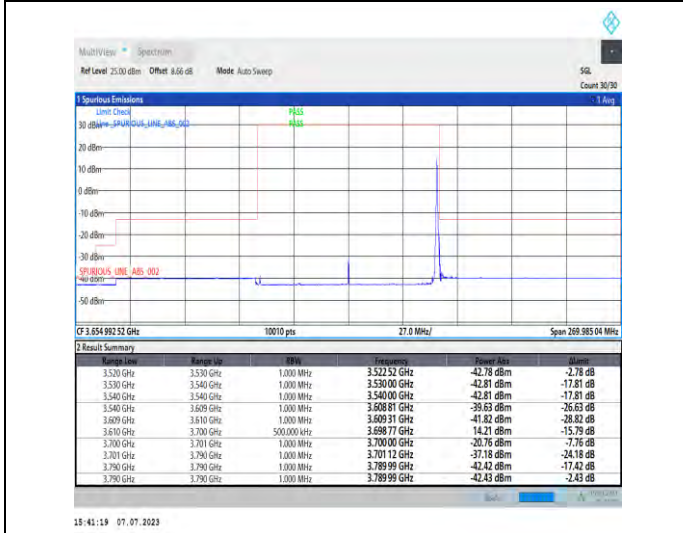
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1-N48-PC3-30-90-H-2-DFT-PI2BPSK-Edge_1RB_Right-t-1@244-Ant3-1--PASS-see graph

1-N48-PC3-30-90-H-3-DFT-PI2BPSK-Outer_Full-240@0-Ant3-1--PASS-see graph



1-N48-PC3-30-90-H-5-CP-QPSK-Edge_1RB_Right-1@244-Ant3-1--PASS-see graph

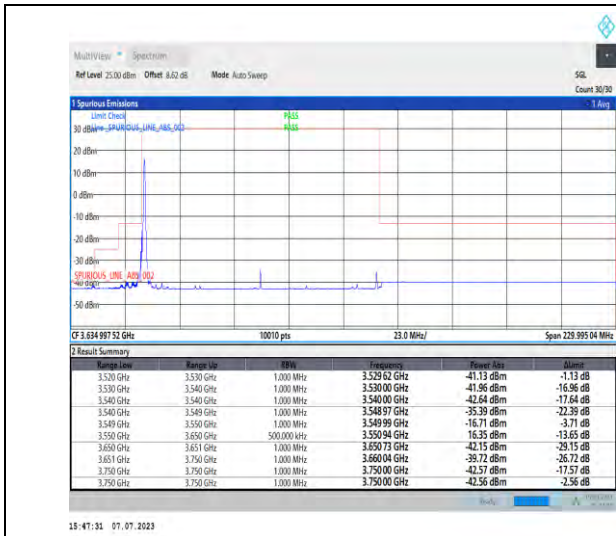
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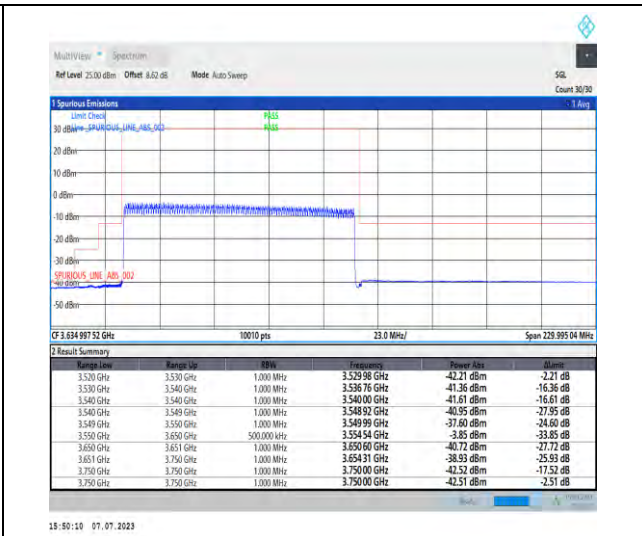
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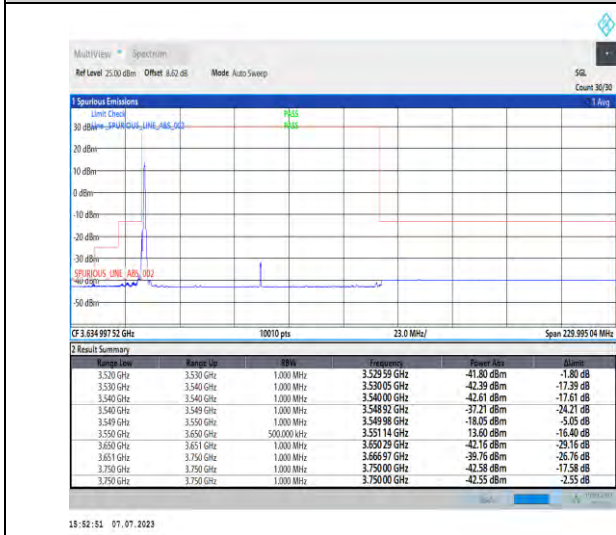
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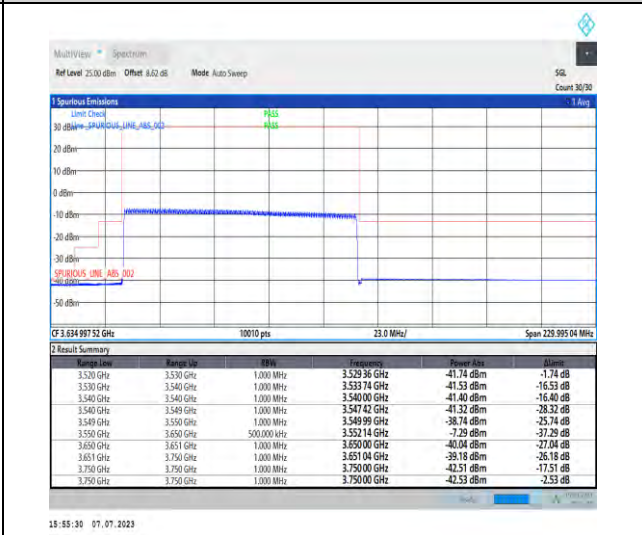
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1-N48-PC3-30-100-L-3-DFT-PI2BPSK-Outer_Full-5 1@0-Ant3-1--PASS-see graph



1-N48-PC3-30-100-L-4-CP-QPSK-Edge_1RB_Left-1 @0-Ant3-1--PASS-see graph



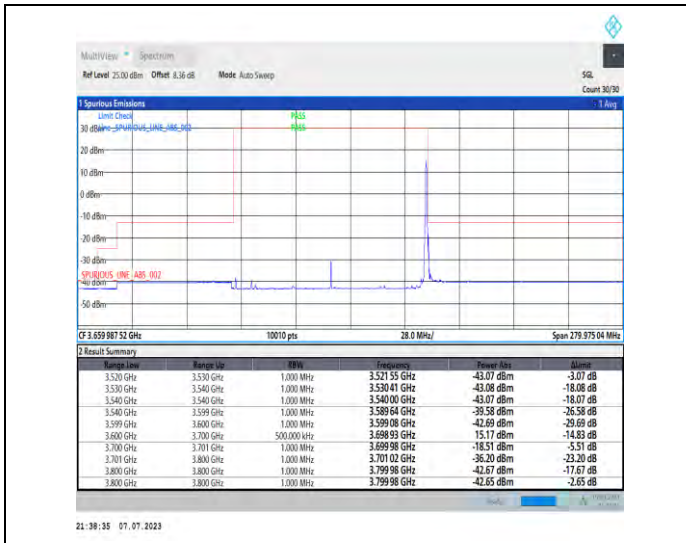
1-N48-PC3-30-100-L-6-CP-QPSK-Outer_Full-273 @0-Ant3-1--PASS-see graph



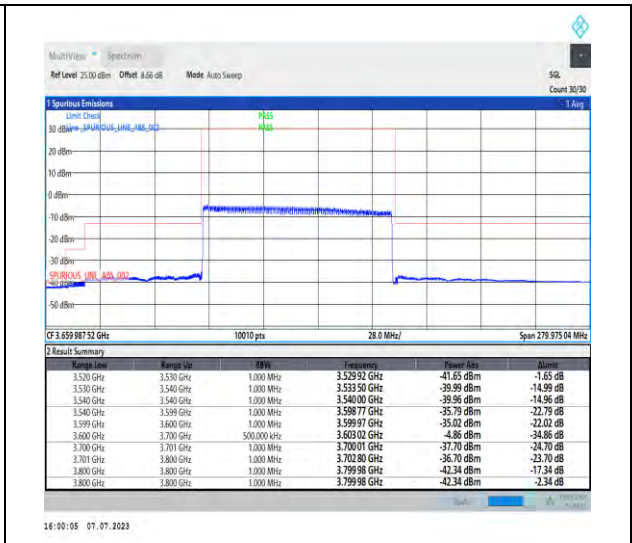
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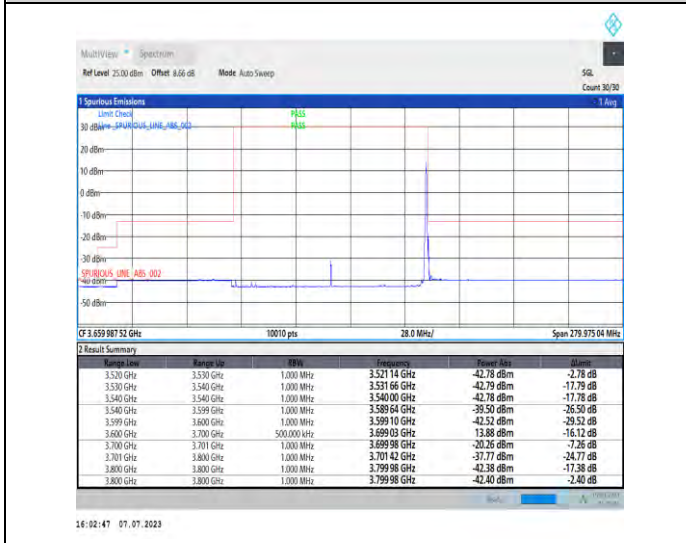
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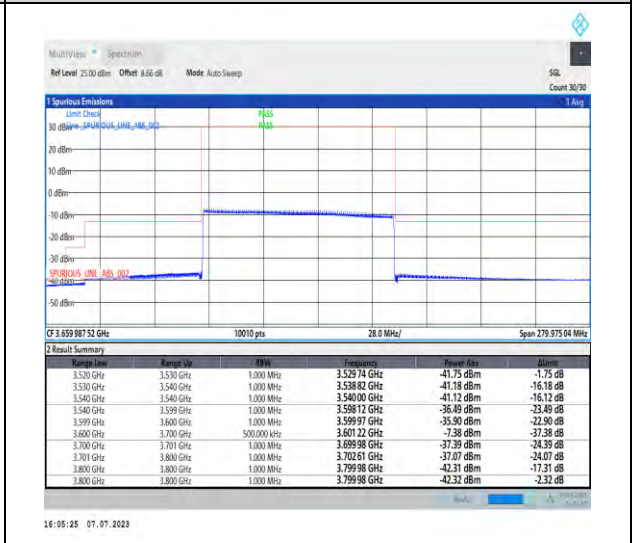
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1-N48-PC3-30-100-H-3-DFT-PI2BPSK-Outer_Full -51@0-Ant3-1--PASS-see graph



1-N48-PC3-30-100-H-5-CP-QPSK-Edge_1RB_Right-1 @272-Ant3-1--PASS-see graph



1-N48-PC3-30-100-H-6-CP-QPSK-Outer_Full-273 @0-Ant3-1--PASS-see graph



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Conducted Spurious Emission for SA
Test Graphs

<p>1-N48-PC3-30-100-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant3-0.02--76.40--70-P ASS</p>	<p>1-N48-PC3-30-100-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant3-0.15--75.44--60-PASS</p>
<p>1-N48-PC3-30-100-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant3-39.99--59.72--50-PASS</p>	<p>1-N48-PC3-30-100-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant3-2999.80--49.38--40-PASS</p>



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<p>1-N48-PC3-30-100-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant3-7102.65--46.14--40-PASS</p>	<p>1-N48-PC3-30-100-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-40000-Ant3-12000.00--46.34--40-PASS</p>
<p>1-N48-PC3-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.30-Ant3-0.02--81.39--70-PASS</p>	<p>1-N48-PC3-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.30-30-Ant3-0.30--82.64--60-PASS</p>



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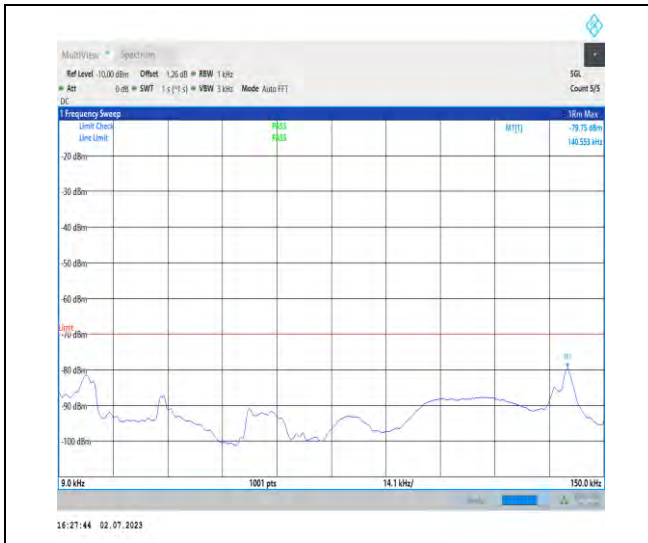
<p>1-N48-PC3-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant3-51.83--59.72--50-PA SS</p>	<p>1-N48-PC3-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant3-2990.40--49.23--40-PASS</p>
<p>1-N48-PC3-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant3-6505.05--48.35--40-PASS</p>	<p>1-N48-PC3-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-40000-Ant3-12000.00--46.54--40-PASS</p>



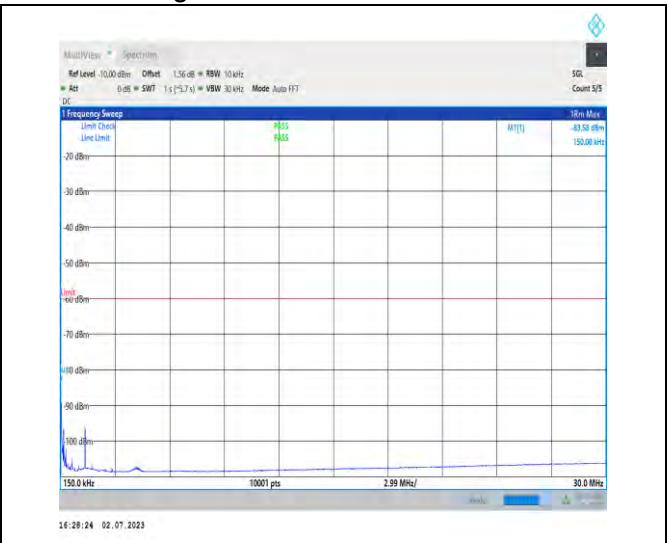
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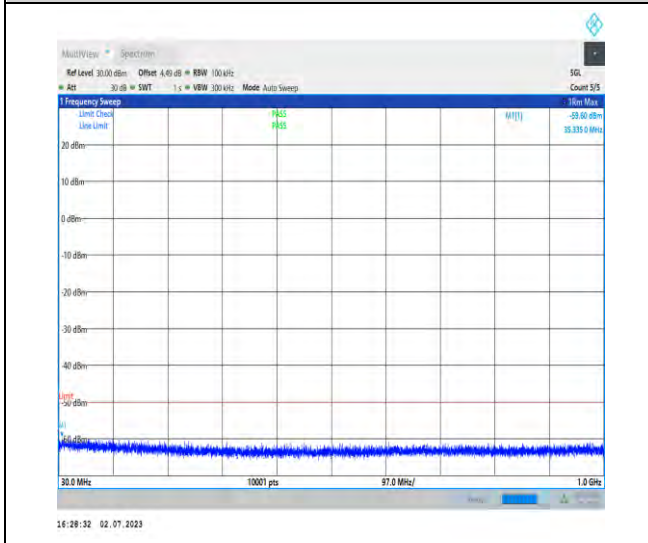
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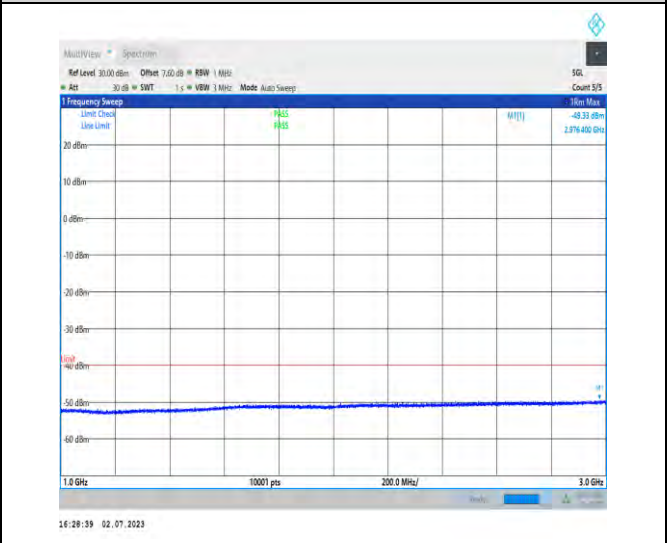
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1-N48-PC3-30-100-H-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.30-30-Ant3-0.30--83.58--60-PASS



1-N48-PC3-30-100-H-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant3-35.34--59.60--50-PA SS

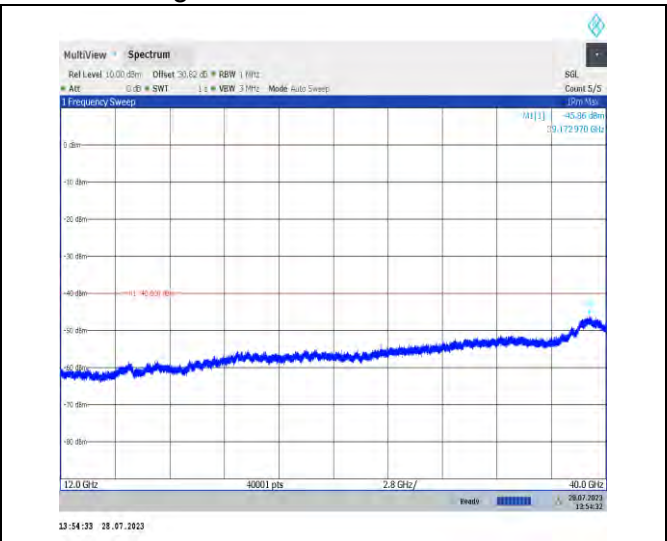
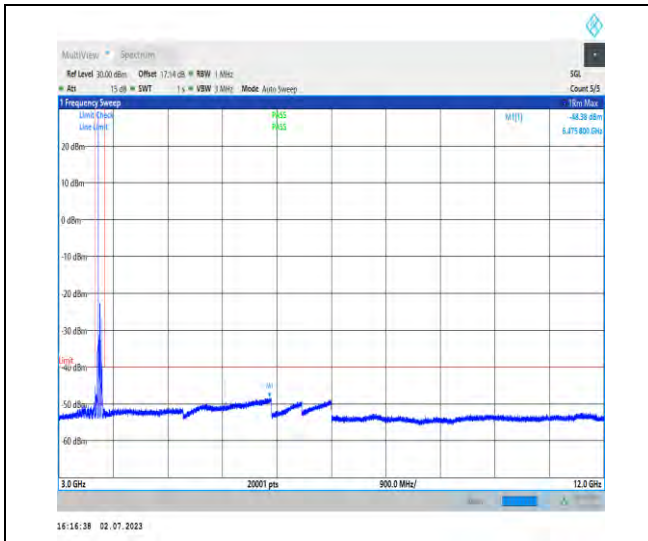


1-N48-PC3-30-100-H-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant3-2976.40--49.33--40-PASS



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1-N48-PC3-30-100-H-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant3-6473.55--48.32--40-PASS

1-N48-PC3-30-100-H-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-40000-Ant3-12000.00--46.44--40-PASS



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Conducted Spurious Emission for SA MIMO ANT3

Test Graphs

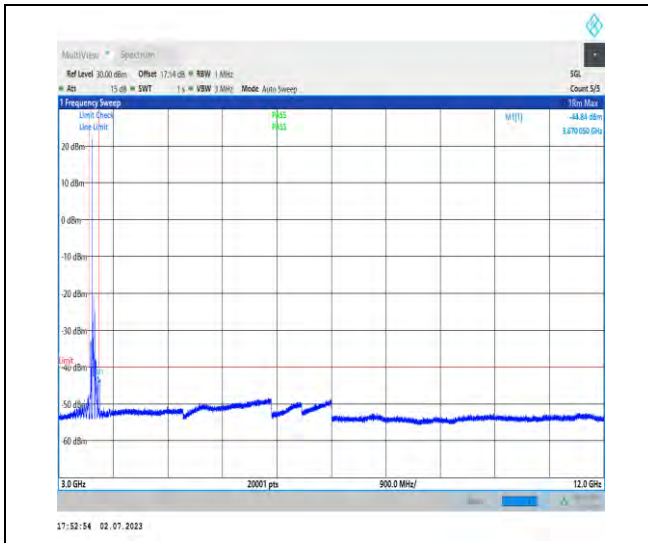
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<p>1-N48-PC3-30-100-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant3-40.09--59.51--50-PA SS</p>	<p>1-N48-PC3-30-100-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant3-2853.40--49.11--40-PASS</p>



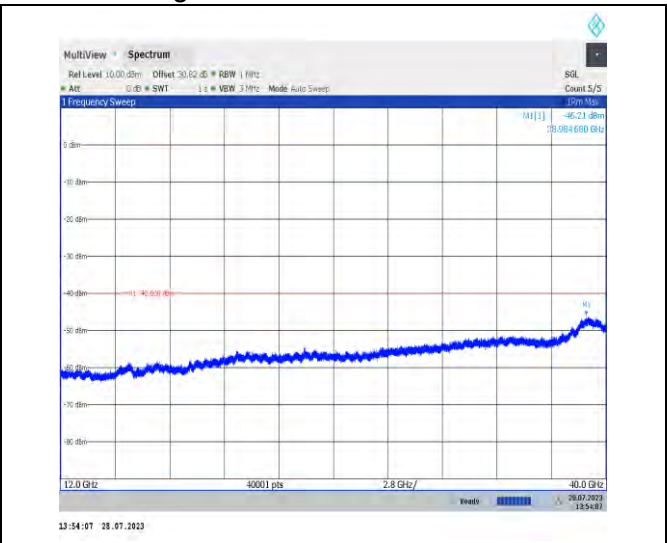
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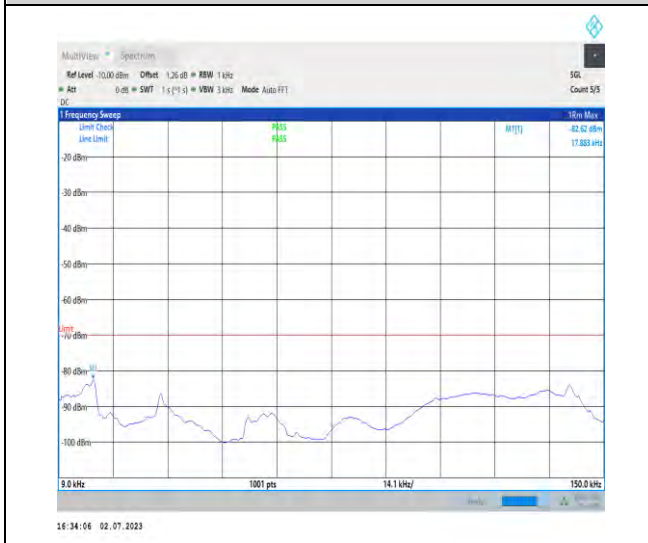
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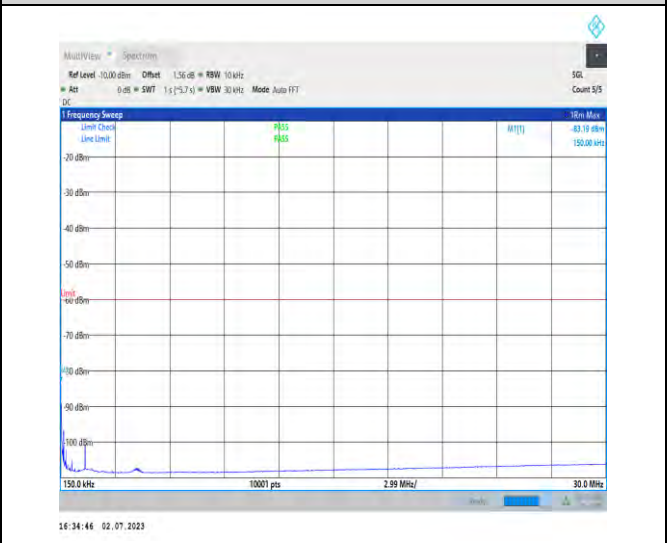
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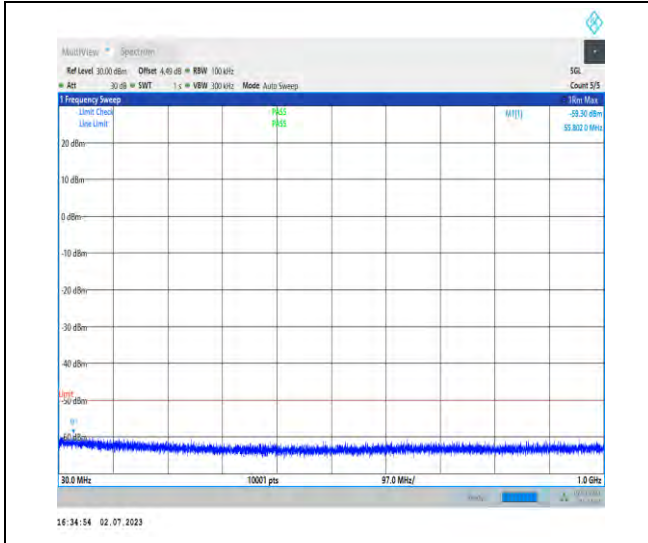
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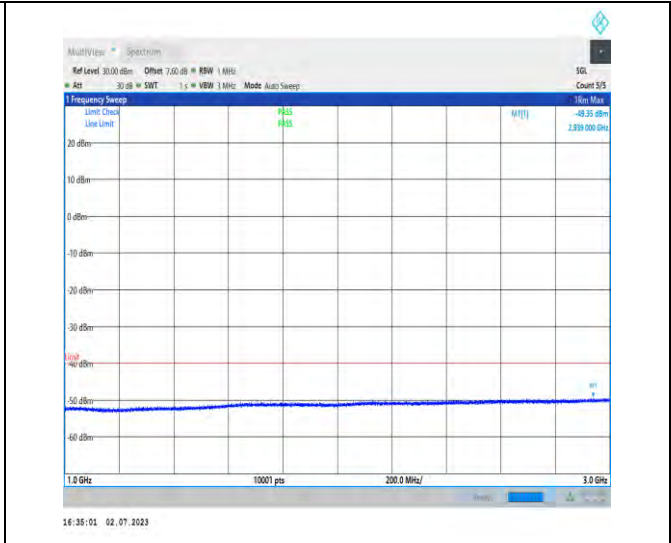
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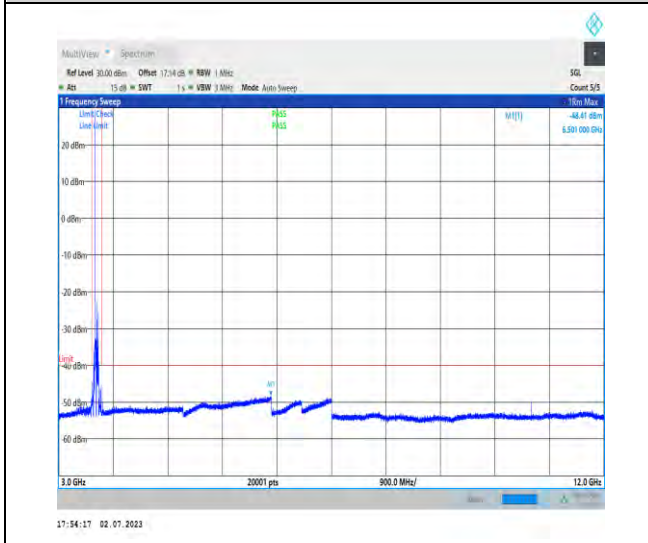
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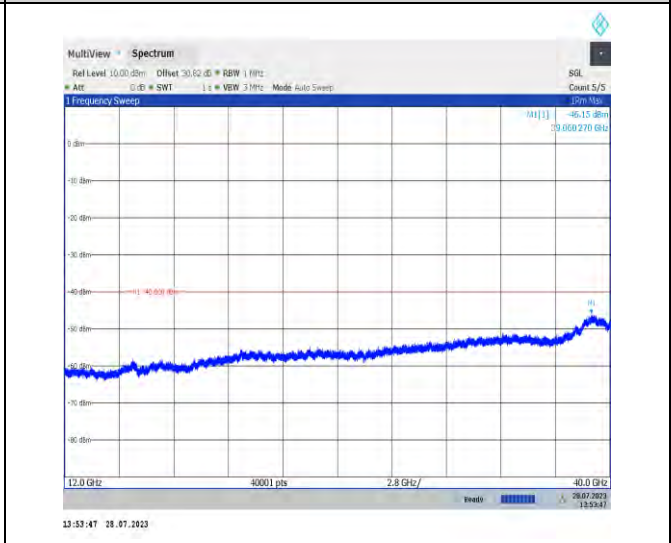
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 SS



1-N48-PC3-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant3-2990.40--49.35--40-PASS



1-N48-PC3-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant3-6505.05--48.22--40-PASS



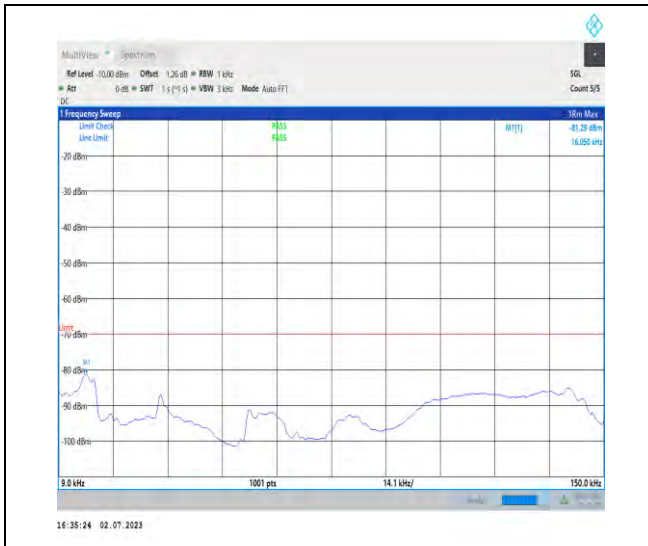
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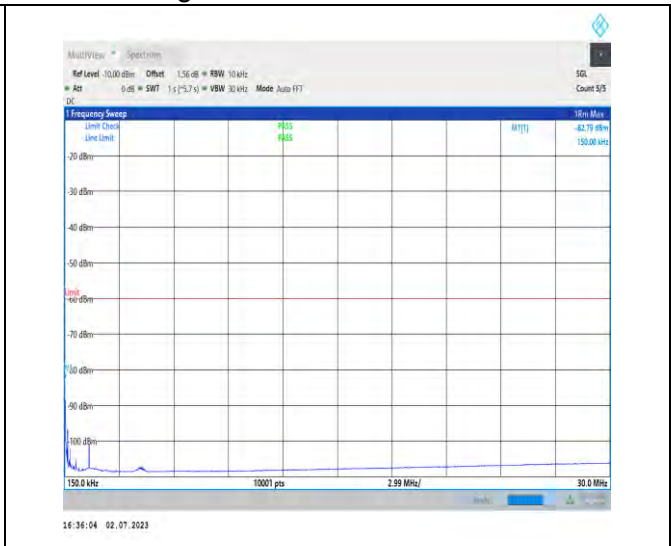
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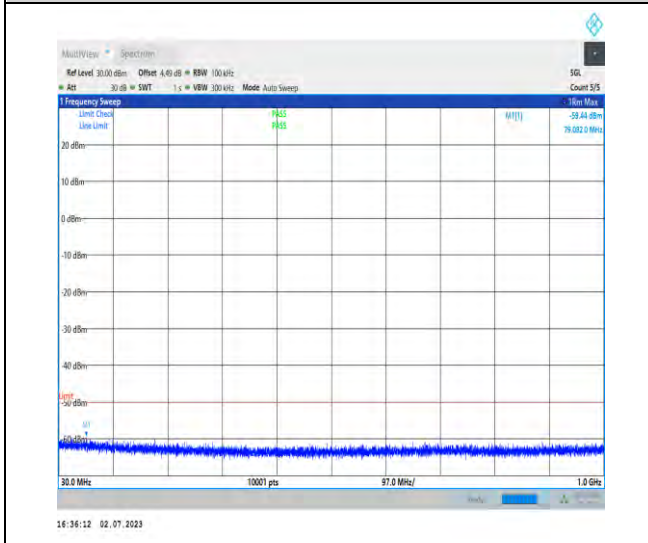
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1-N48-PC3-30-100-H-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant3-35.34--59.44--50-PA SS

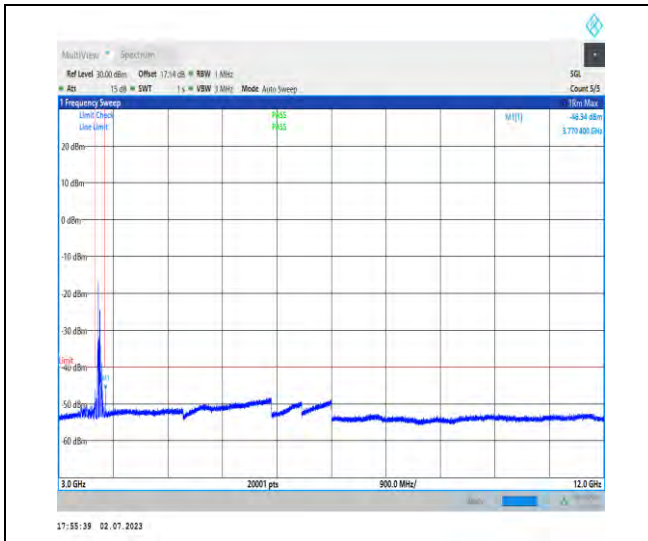


1-N48-PC3-30-100-H-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant3-2976.40--49.29--40-PASS

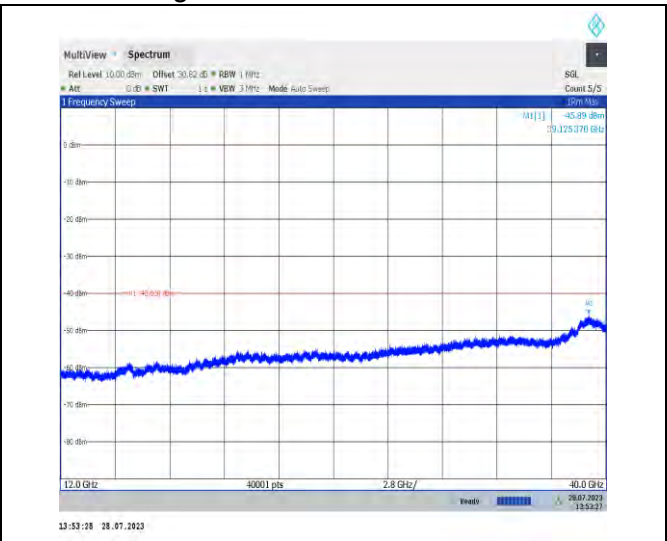


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1-N48-PC3-30-100-H-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant3-6473.55--47.45--40-PASS



1-N48-PC3-30-100-H-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-40000-Ant3-12000.00--46.31--40-PASS



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Field Strength of Spurious Radiation

Test Band = NR SA Band 48_ 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	8764.0625	42.85	-43.80	37.27	-58.94	-40.00	18.94	Horizontal
2	12491.0208	38.34	-38.77	38.91	-56.78	-40.00	16.78	Horizontal
3	17975.0833	36.98	-37.05	45.14	-50.19	-40.00	10.19	Horizontal
4	7210.18	42.14	-45.51	36.11	-62.52	-40.00	22.52	Horizontal
5	10815.27	38.60	-40.41	39.23	-57.83	-40.00	17.83	Horizontal
6	14420.36	37.36	-38.63	40.56	-55.97	-40.00	15.97	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8341.9167	42.71	-44.48	36.68	-60.35	-40.00	20.35	Vertical
2	12441.6667	38.07	-38.52	38.94	-56.77	-40.00	16.77	Vertical
3	17144.6875	36.50	-37.42	39.83	-56.35	-40.00	16.35	Vertical
4	7210.18	42.52	-45.51	36.11	-62.14	-40.00	22.14	Vertical
5	10815.27	37.94	-40.41	39.23	-58.49	-40.00	18.49	Vertical
6	14420.36	36.34	-38.63	40.56	-56.99	-40.00	16.99	Vertical



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Test Band = NR SA Band 48_ 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	8765.0208	42.44	-43.80	37.27	-59.35	-40.00	19.35	Horizontal
2	11738.25	39.46	-39.64	39.25	-56.18	-40.00	16.18	Horizontal
3	17618.1042	37.69	-36.93	42.86	-51.64	-40.00	11.64	Horizontal
4	7210.18	42.82	-45.51	36.11	-61.84	-40.00	21.84	Horizontal
5	10815.27	38.91	-40.41	39.23	-57.52	-40.00	17.52	Horizontal
6	14420.36	36.49	-38.63	40.56	-56.84	-40.00	16.84	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8508.1875	42.77	-43.72	36.91	-59.30	-40.00	19.30	Vertical
2	9637.5833	40.89	-41.93	38.17	-58.13	-40.00	18.13	Vertical
3	17919.0208	36.65	-37.21	44.78	-51.04	-40.00	11.04	Vertical
4	7210.18	43.14	-45.51	36.11	-61.52	-40.00	21.52	Vertical
5	10815.27	38.04	-40.41	39.23	-58.39	-40.00	18.39	Vertical
6	14420.36	35.91	-38.63	40.56	-57.42	-40.00	17.42	Vertical



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Test Band = NR SA Band 48_ 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	8616.9583	42.29	-44.06	37.06	-59.96	-40.00	19.96	Horizontal
2	12896.3958	38.25	-38.44	38.66	-56.79	-40.00	16.79	Horizontal
3	17963.1042	37.83	-37.08	45.06	-49.45	-40.00	9.45	Horizontal
4	7310.18	43.36	-45.96	36.34	-61.52	-40.00	21.52	Horizontal
5	10965.27	38.06	-40.40	39.37	-58.23	-40.00	18.23	Horizontal
6	14620.36	36.73	-38.14	40.40	-56.26	-40.00	16.26	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8340	42.85	-44.48	36.68	-60.21	-40.00	20.21	Vertical
2	9348.6458	42.11	-42.88	37.91	-58.11	-40.00	18.11	Vertical
3	13580.6458	38.15	-38.41	39.94	-55.59	-40.00	15.59	Vertical
4	7310.18	43.43	-45.96	36.34	-61.45	-40.00	21.45	Vertical
5	10965.27	38.04	-40.40	39.37	-58.25	-40.00	18.25	Vertical
6	14620.36	36.57	-38.14	40.40	-56.42	-40.00	16.42	Vertical



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Test Band = SA MIMO n48_ 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	7690.7292	43.03	-45.12	36.57	-60.77	-40.00	20.77	Horizontal
2	9281.5625	42.01	-42.95	37.85	-58.34	-40.00	18.34	Horizontal
3	10762.6667	38.76	-40.58	39.19	-57.90	-40.00	17.90	Horizontal
4	12538.9375	37.55	-39.02	38.88	-57.86	-40.00	17.86	Horizontal
5	14111.5625	36.35	-38.67	40.81	-56.77	-40.00	16.77	Horizontal
6	17498.7917	33.74	-36.13	42.09	-55.56	-40.00	15.56	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7643.7708	43.01	-44.99	36.63	-60.62	-40.00	20.62	Vertical
2	9322.2917	41.47	-42.91	37.89	-58.81	-40.00	18.81	Vertical
3	11207.3333	38.53	-39.99	39.36	-57.36	-40.00	17.36	Vertical
4	13733.0208	36.70	-38.14	40.29	-56.41	-40.00	16.41	Vertical
5	16572.0833	35.27	-37.43	38.60	-58.82	-40.00	18.82	Vertical
6	17982.75	34.07	-37.03	45.19	-53.03	-40.00	13.03	Vertical



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Test Band = SA MIMO n48_ 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	7368.7292	43.22	-45.70	36.48	-61.26	-40.00	21.26	Horizontal
2	9295.9375	41.65	-42.94	37.87	-58.68	-40.00	18.68	Horizontal
3	11169.4792	38.09	-40.00	39.37	-57.80	-40.00	17.80	Horizontal
4	12432.0833	36.98	-38.47	38.94	-57.81	-40.00	17.81	Horizontal
5	14822.6458	36.11	-37.73	40.24	-56.64	-40.00	16.64	Horizontal
6	17964.5417	33.73	-37.08	45.07	-53.54	-40.00	13.54	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7683.0625	43.23	-45.10	36.58	-60.55	-40.00	20.55	Vertical
2	8581.9792	41.62	-44.05	37.01	-60.67	-40.00	20.67	Vertical
3	9270.0625	41.87	-42.95	37.84	-58.50	-40.00	18.50	Vertical
4	11332.3958	38.45	-40.21	39.33	-57.69	-40.00	17.69	Vertical
5	13600.7708	36.39	-38.28	39.98	-57.17	-40.00	17.17	Vertical
6	17971.25	35.10	-37.06	45.12	-52.10	-40.00	12.10	Vertical



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Test Band = SA MIMO n48_ 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	7220.6667	43.66	-45.57	36.13	-61.04	-40.00	21.04	Horizontal
2	8751.125	41.88	-43.78	37.25	-59.91	-40.00	19.91	Horizontal
3	9887.7083	39.92	-41.84	38.40	-58.78	-40.00	18.78	Horizontal
4	12072.2292	37.93	-39.17	39.16	-57.34	-40.00	17.34	Horizontal
5	13720.0833	36.44	-38.06	40.26	-56.63	-40.00	16.63	Horizontal
6	17252.9792	34.44	-37.14	40.52	-57.44	-40.00	17.44	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7312.6667	43.68	-45.95	36.35	-61.18	-40.00	21.18	Vertical
2	8238.4167	42.34	-44.35	36.53	-60.74	-40.00	20.74	Vertical
3	9308.3958	41.69	-42.93	37.88	-58.62	-40.00	18.62	Vertical
4	10607.4167	39.05	-41.16	39.05	-58.33	-40.00	18.33	Vertical
5	12039.1667	37.59	-38.89	39.18	-57.38	-40.00	17.38	Vertical
6	14824.5625	36.31	-37.75	40.24	-56.46	-40.00	16.46	Vertical



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Test Band = NR N2A_N48A_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	8740.1042	42.21	-43.76	37.24	-59.57	-40.00	19.57	Horizontal
2	12967.7917	38.43	-38.72	38.62	-56.93	-40.00	16.93	Horizontal
3	16517.4583	37.71	-37.91	38.56	-56.90	-40.00	16.90	Horizontal
4	7210.18	43.00	-45.51	36.11	-61.66	-40.00	21.66	Horizontal
5	10815.27	38.12	-40.41	39.23	-58.31	-40.00	18.31	Horizontal
6	14420.36	36.02	-38.63	40.56	-57.31	-40.00	17.31	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8481.8333	42.12	-43.80	36.87	-60.07	-40.00	20.07	Vertical
2	12402.8542	38.00	-38.32	38.96	-56.63	-40.00	16.63	Vertical
3	17843.3125	36.72	-37.69	44.30	-51.93	-40.00	11.93	Vertical
4	7210.18	42.55	-45.51	36.11	-62.11	-40.00	22.11	Vertical
5	10815.27	37.57	-40.41	39.23	-58.86	-40.00	18.86	Vertical
6	14420.36	37.09	-38.63	40.56	-56.24	-40.00	16.24	Vertical



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Test Band = NR N2A_N48A_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	8865.6458	42.19	-43.66	37.41	-59.31	-40.00	19.31	Horizontal
2	12863.3333	38.18	-38.73	38.68	-57.13	-40.00	17.13	Horizontal
3	17610.9167	36.65	-36.85	42.81	-52.65	-40.00	12.65	Horizontal
4	7260.18	42.45	-45.79	36.23	-62.37	-40.00	22.37	Horizontal
5	10890.27	37.15	-40.20	39.30	-59.00	-40.00	19.00	Horizontal
6	14520.36	36.48	-38.30	40.48	-56.59	-40.00	16.59	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8320.8333	42.68	-44.52	36.65	-60.45	-40.00	20.45	Vertical
2	12906.9375	38.06	-38.44	38.66	-56.99	-40.00	16.99	Vertical
3	16579.2708	37.03	-37.36	38.61	-56.99	-40.00	16.99	Vertical
4	7260.18	42.76	-45.79	36.23	-62.06	-40.00	22.06	Vertical
5	10890.27	37.82	-40.20	39.30	-58.33	-40.00	18.33	Vertical
6	14520.36	37.42	-38.30	40.48	-55.65	-40.00	15.65	Vertical



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Test Band = NR N2A_N48A_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	8936.0833	41.76	-43.58	37.51	-59.57	-40.00	19.57	Horizontal
2	13796.2708	38.19	-38.50	40.43	-55.14	-40.00	15.14	Horizontal
3	17960.2292	37.21	-37.09	45.05	-50.10	-40.00	10.10	Horizontal
4	7310.18	43.31	-45.96	36.34	-61.57	-40.00	21.57	Horizontal
5	10965.27	37.37	-40.40	39.37	-58.92	-40.00	18.92	Horizontal
6	14620.36	35.78	-38.14	40.40	-57.21	-40.00	17.21	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8961.9583	41.88	-43.60	37.55	-59.43	-40.00	19.43	Vertical
2	12904.5417	37.84	-38.43	38.66	-57.19	-40.00	17.19	Vertical
3	17953.5208	36.58	-37.11	45.00	-50.79	-40.00	10.79	Vertical
4	7310.18	43.14	-45.96	36.34	-61.74	-40.00	21.74	Vertical
5	10965.27	37.39	-40.40	39.37	-58.90	-40.00	18.90	Vertical
6	14620.36	35.95	-38.14	40.40	-57.04	-40.00	17.04	Vertical



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Test Band = NR N5A_N48A_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	7416.1667	44.45	-45.65	36.60	-59.86	-40.00	19.86	Horizontal
2	8326.1042	42.63	-44.51	36.66	-60.48	-40.00	20.48	Horizontal
3	9579.125	40.78	-41.92	38.12	-58.28	-40.00	18.28	Horizontal
4	12033.4167	38.44	-38.84	39.18	-56.48	-40.00	16.48	Horizontal
5	14193.5	37.19	-38.19	40.75	-55.51	-40.00	15.51	Horizontal
6	17900.3333	36.53	-37.26	44.66	-51.33	-40.00	11.33	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7165.0833	44.11	-45.68	36.00	-60.83	-40.00	20.83	Vertical
2	8867.5625	42.33	-43.65	37.41	-59.17	-40.00	19.17	Vertical
3	9578.6458	40.64	-41.93	38.12	-58.43	-40.00	18.43	Vertical
4	12041.5625	38.38	-38.91	39.18	-56.61	-40.00	16.61	Vertical
5	14637.6875	37.40	-38.15	40.39	-55.62	-40.00	15.62	Vertical
6	17563.9583	36.27	-36.51	42.51	-52.99	-40.00	12.99	Vertical



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Test Band = NR N5A_N48A_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	2122	31.79	-26.04	26.85	-62.67	-40.00	22.67	Horizontal
2	2122	31.79	-26.04	26.85	-62.67	-40.00	22.67	Horizontal
3	2122	31.79	-26.04	26.85	-62.67	-40.00	22.67	Horizontal
4	2149.9583	33.02	-25.97	26.88	-61.33	-40.00	21.33	Horizontal
5	2149.9583	33.02	-25.97	26.88	-61.33	-40.00	21.33	Horizontal
6	7398.9167	43.86	-45.56	36.56	-60.41	-40.00	20.41	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7318.8958	44.43	-45.92	36.37	-60.39	-40.00	20.39	Vertical
2	8282.5	42.14	-44.50	36.60	-61.03	-40.00	21.03	Vertical
3	9514.4375	41.19	-42.52	38.06	-58.52	-40.00	18.52	Vertical
4	11552.3333	38.71	-39.63	39.29	-56.90	-40.00	16.90	Vertical
5	13895.9375	37.93	-38.35	40.66	-55.02	-40.00	15.02	Vertical
6	17991.8542	36.50	-37.00	45.25	-50.51	-40.00	10.51	Vertical



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Test Band = NR N5A_N48A_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	7368.25	43.90	-45.70	36.48	-60.58	-40.00	20.58	Horizontal
2	7806.6875	43.91	-44.90	36.43	-59.82	-40.00	19.82	Horizontal
3	9563.7917	41.13	-42.06	38.11	-58.09	-40.00	18.09	Horizontal
4	12025.2708	38.31	-38.77	39.18	-56.54	-40.00	16.54	Horizontal
5	13727.2708	37.88	-38.11	40.27	-55.21	-40.00	15.21	Horizontal
6	17622.8958	36.49	-36.98	42.89	-52.87	-40.00	12.87	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7671.5625	43.43	-45.07	36.59	-60.30	-40.00	20.30	Vertical
2	8777	42.52	-43.82	37.29	-59.27	-40.00	19.27	Vertical
3	9316.0625	42.03	-42.92	37.88	-58.26	-40.00	18.26	Vertical
4	12003.7083	38.11	-38.59	39.20	-56.54	-40.00	16.54	Vertical
5	12663.5208	38.09	-39.14	38.80	-57.51	-40.00	17.51	Vertical
6	17906.5625	36.37	-37.24	44.70	-51.43	-40.00	11.43	Vertical



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Test Band = NR N48A_N77A_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	7162.6875	44.61	-45.70	35.99	-60.36	-40.00	20.36	Horizontal
2	7871.8542	44.01	-44.95	36.35	-59.85	-40.00	19.85	Horizontal
3	9305.5208	41.71	-42.93	37.87	-58.61	-40.00	18.61	Horizontal
4	12023.3542	38.33	-38.76	39.19	-56.50	-40.00	16.50	Horizontal
5	13931.875	37.94	-38.59	40.74	-55.17	-40.00	15.17	Horizontal
6	17453.2708	36.30	-36.63	41.80	-53.79	-40.00	13.79	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7230.25	44.47	-45.62	36.15	-60.26	-40.00	20.26	Vertical
2	8462.1875	41.94	-43.94	36.85	-60.41	-40.00	20.41	Vertical
3	9317.5	41.60	-42.92	37.89	-58.69	-40.00	18.69	Vertical
4	11364.9792	38.71	-39.97	39.33	-57.19	-40.00	17.19	Vertical
5	13902.6458	37.78	-38.36	40.68	-55.17	-40.00	15.17	Vertical
6	17833.25	36.32	-37.76	44.23	-52.47	-40.00	12.47	Vertical



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Test Band = NR N48A_N77A_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	7714.6875	43.48	-45.10	36.54	-60.34	-40.00	20.34	Horizontal
2	8856.0625	42.21	-43.69	37.40	-59.34	-40.00	19.34	Horizontal
3	9326.125	41.68	-42.91	37.89	-58.59	-40.00	18.59	Horizontal
4	11367.8542	38.62	-39.95	39.33	-57.26	-40.00	17.26	Horizontal
5	14177.2083	37.32	-38.28	40.76	-55.47	-40.00	15.47	Horizontal
6	17686.1458	36.54	-37.68	43.29	-53.11	-40.00	13.11	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7665.3333	43.01	-45.05	36.60	-60.70	-40.00	20.70	Vertical
2	8981.125	41.93	-43.61	37.57	-59.37	-40.00	19.37	Vertical
3	9878.6042	40.56	-41.86	38.39	-58.17	-40.00	18.17	Vertical
4	10766.5	39.72	-40.57	39.19	-56.92	-40.00	16.92	Vertical
5	13359.75	38.54	-38.83	39.43	-56.12	-40.00	16.12	Vertical
6	15468.5625	36.69	-38.04	39.21	-57.40	-40.00	17.40	Vertical



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Test Band = NR N48A_N77A_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	7241.75	44.02	-45.68	36.18	-60.74	-40.00	20.74	Horizontal
2	7973.9167	42.88	-44.45	36.23	-60.60	-40.00	20.60	Horizontal
3	9303.125	42.26	-42.94	37.87	-58.06	-40.00	18.06	Horizontal
4	11292.1458	39.26	-40.41	39.34	-57.07	-40.00	17.07	Horizontal
5	13735.8958	37.91	-38.15	40.29	-55.21	-40.00	15.21	Horizontal
6	17972.2083	36.48	-37.06	45.12	-50.72	-40.00	10.72	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7398.9167	43.62	-45.56	36.56	-60.65	-40.00	20.65	Vertical
2	8766.9375	42.24	-43.80	37.27	-59.55	-40.00	19.55	Vertical
3	9585.8333	40.50	-41.86	38.13	-58.49	-40.00	18.49	Vertical
4	12071.75	38.69	-39.16	39.16	-56.58	-40.00	16.58	Vertical
5	14337.7292	38.17	-38.75	40.63	-55.21	-40.00	15.21	Vertical
6	17652.125	36.77	-37.30	43.07	-52.72	-40.00	12.72	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
N48	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-6.200000	-0.03652	PASS
N48	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-5.200000	-0.005641	PASS
N48	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-7.200000	-0.003265	PASS
N48	30	100	CP-QPSK	M	Outer_Full	VH	NT	-5.100000	-0.002341	PASS
N48	30	100	CP-QPSK	M	Outer_Full	VN	NT	-4.300000	-0.002534	PASS
N48	30	100	CP-QPSK	M	Outer_Full	VL	NT	-6.200000	-0.002374	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N48	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-6.500000	-0.003654	PASS
N48	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-3.200000	-0.001254	PASS
N48	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-5.100000	-0.002696	PASS
N48	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-5.600000	-0.004125	PASS
N48	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-6.100000	-0.002362	PASS
N48	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-6.300000	-0.004237	PASS
N48	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-5.500000	-0.003284	PASS
N48	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-3.600000	-0.002265	PASS
N48	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-2.900000	-0.003654	PASS
N48	30	100	CP-QPSK	M	Outer_Full	NV	-30	-5.400000	-0.006352	PASS
N48	30	100	CP-QPSK	M	Outer_Full	NV	-20	-5.200000	-0.003415	PASS
N48	30	100	CP-QPSK	M	Outer_Full	NV	-10	-8.100000	-0.003542	PASS
N48	30	100	CP-QPSK	M	Outer_Full	NV	0	-8.300000	-0.002682	PASS
N48	30	100	CP-QPSK	M	Outer_Full	NV	10	-8.200000	-0.002536	PASS
N48	30	100	CP-QPSK	M	Outer_Full	NV	20	-7.100000	-0.002536	PASS
N48	30	100	CP-QPSK	M	Outer_Full	NV	30	-5.200000	-0.005246	PASS
N48	30	100	CP-QPSK	M	Outer_Full	NV	40	-6.300000	-0.005681	PASS
N48	30	100	CP-QPSK	M	Outer_Full	NV	50	-7.200000	-0.003652	PASS

---End of Attachment---



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