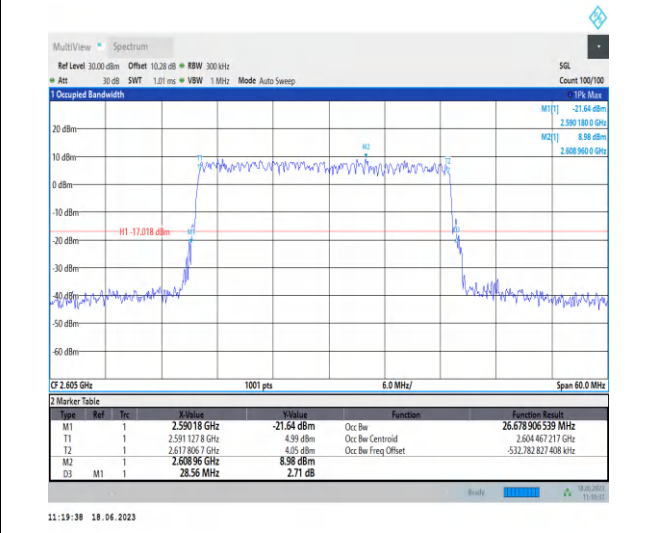
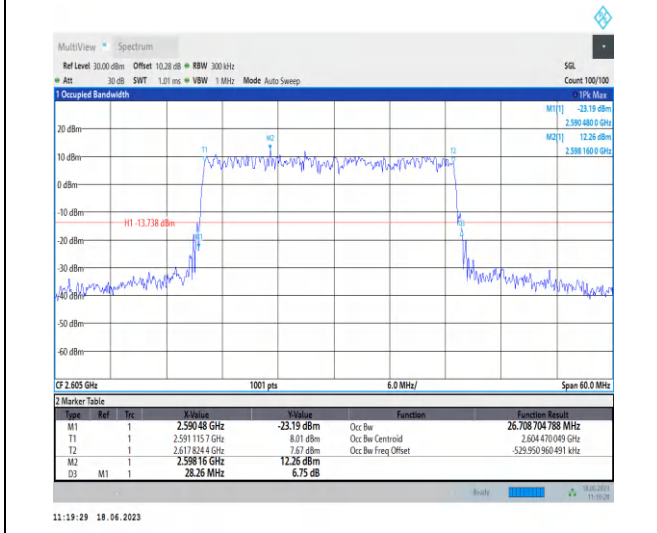


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 -Ant0-26.771-27.960-≤30-PASS

1-N38-PC3-30-30-H-3-DFT-16QAM-Outer_Full-75@0-Ant0-26.774-28.440-≤30-PASS



1-N38-PC3-30-30-H-4-DFT-64QAM-Outer_Full-75@0-Ant0-26.709-28.260-≤30-PASS

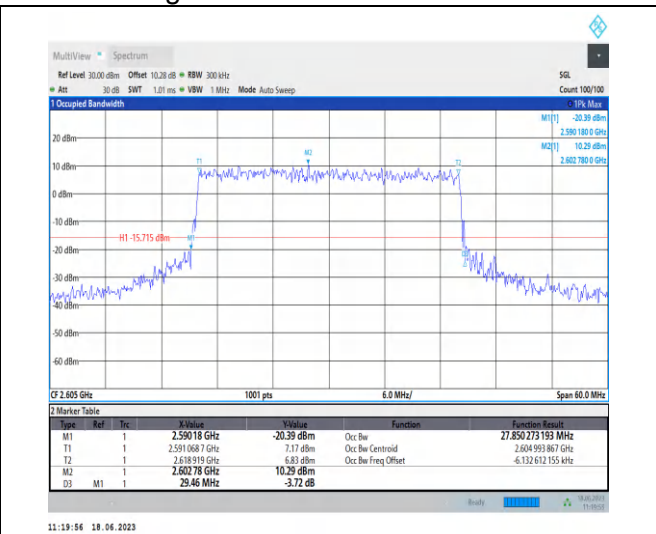
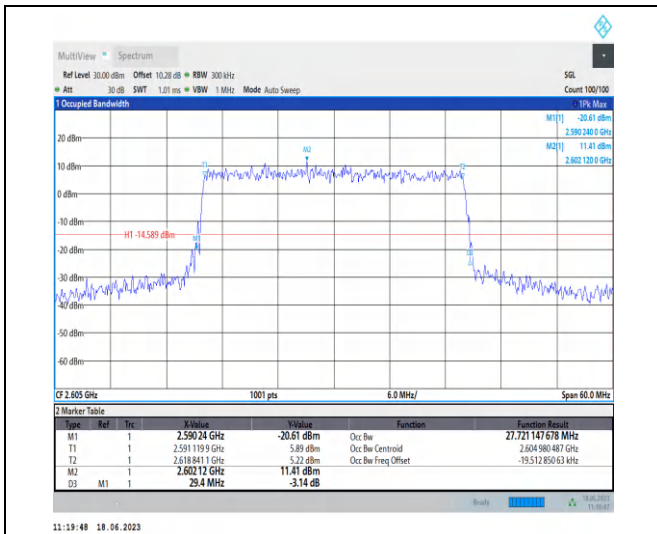
1-N38-PC3-30-30-H-5-DFT-256QAM-Outer_Full-75@0-Ant0-26.679-28.560-≤30-PASS



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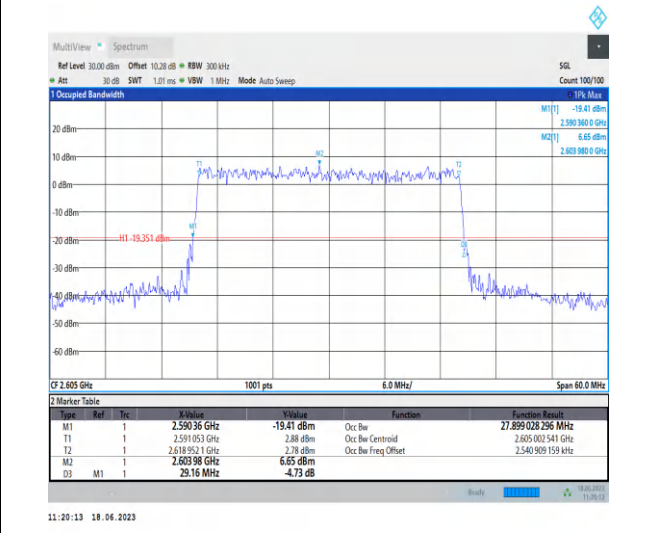
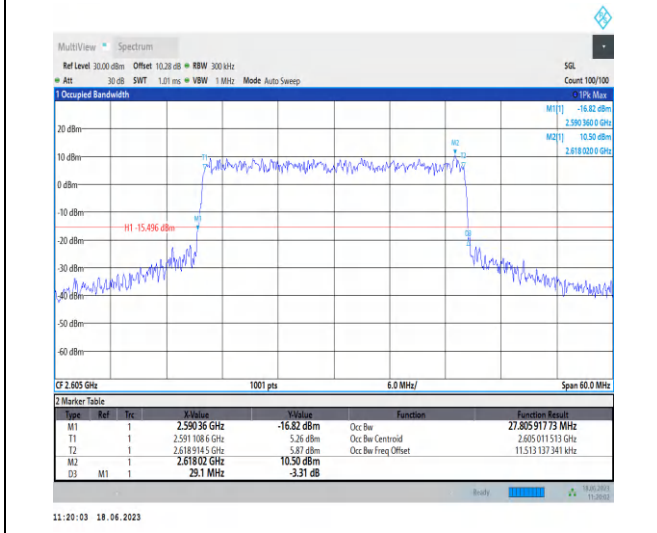
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1-N38-PC3-30-30-H-6-CP-QPSK-Outer_Full-78@0-Ant0-27.721-29.400-≤30-PASS

1-N38-PC3-30-30-H-7-CP-16QAM-Outer_Full-78@0-Ant0-27.85-29.460-≤30-PASS



1-N38-PC3-30-30-H-8-CP-64QAM-Outer_Full-78@0-Ant0-27.806-29.100-≤30-PASS

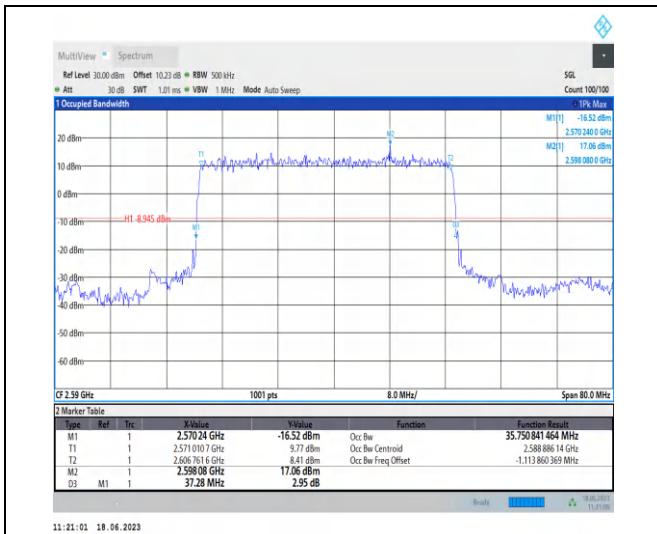
1-N38-PC3-30-30-H-9-CP-256QAM-Outer_Full-78@0-Ant0-27.899-29.160-≤30-PASS



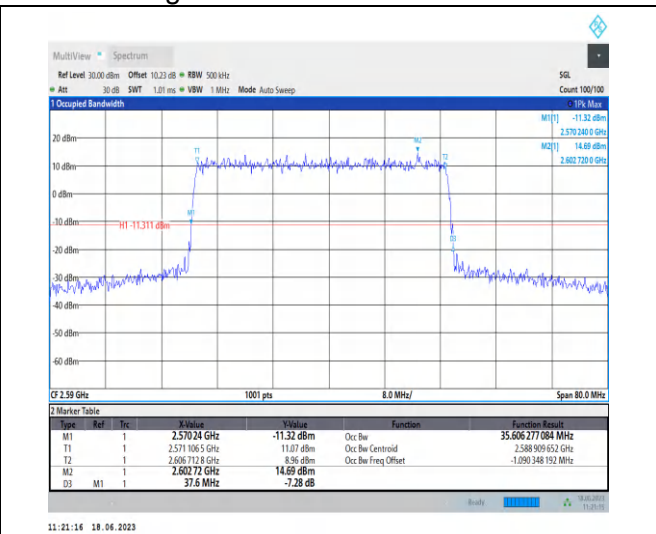
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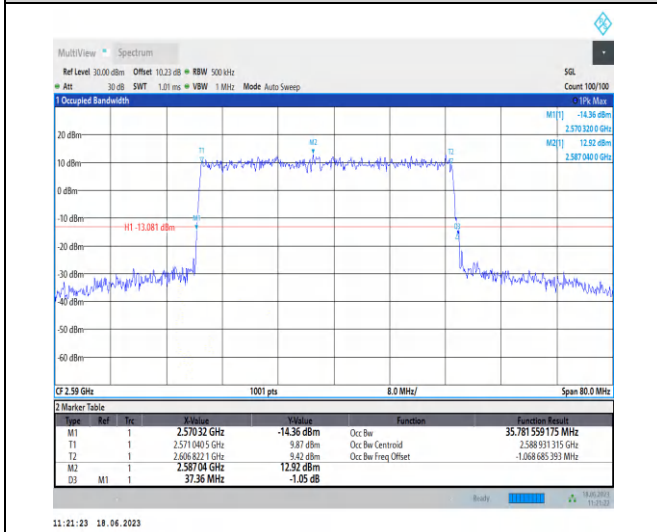
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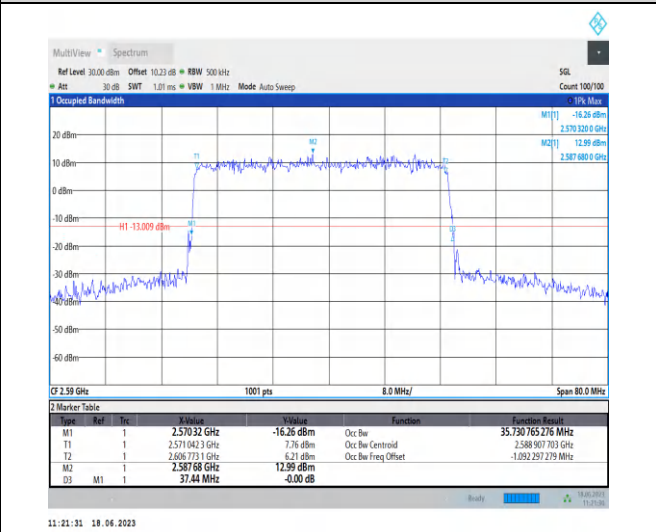
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1-N38-PC3-30-40-L-2-DFT-QPSK-Outer_Full-100 @ 0-Ant0-35.606-37.600-≤40-PASS



1-N38-PC3-30-40-L-3-DFT-16QAM-Outer_Full-100 @ 0-Ant0-35.782-37.360-≤40-PASS



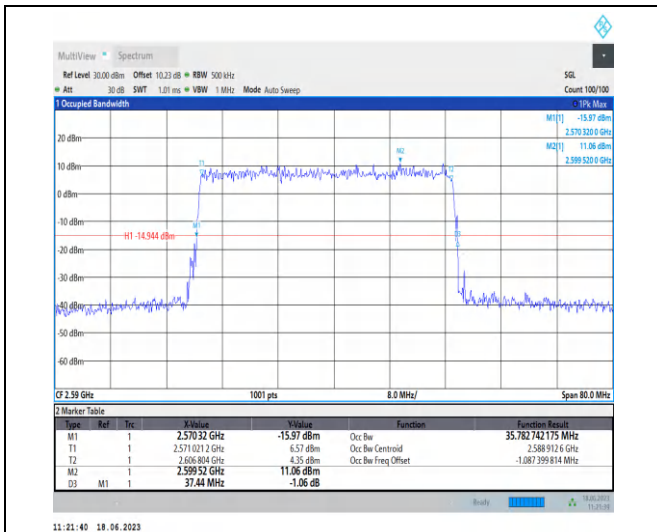
1-N38-PC3-30-40-L-4-DFT-64QAM-Outer_Full-100 @ 0-Ant0-35.731-37.440-≤40-PASS



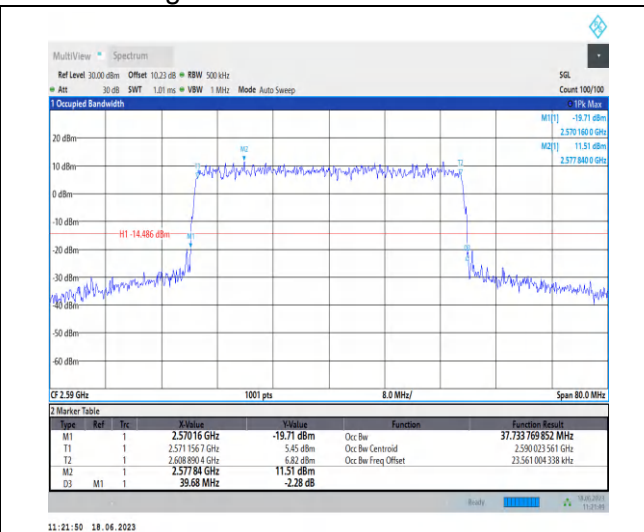
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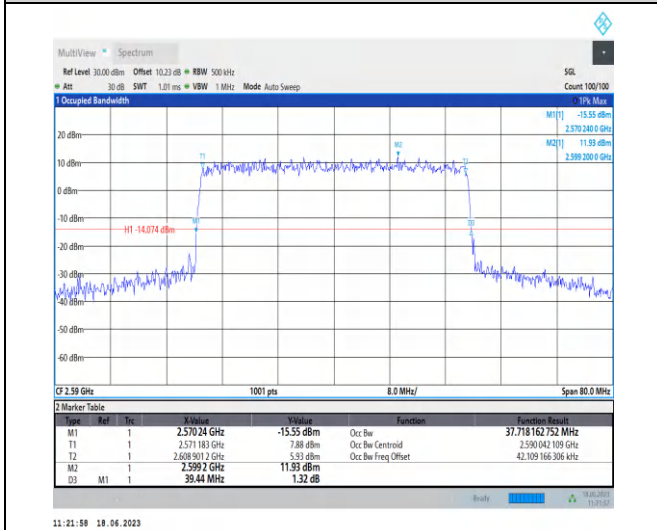
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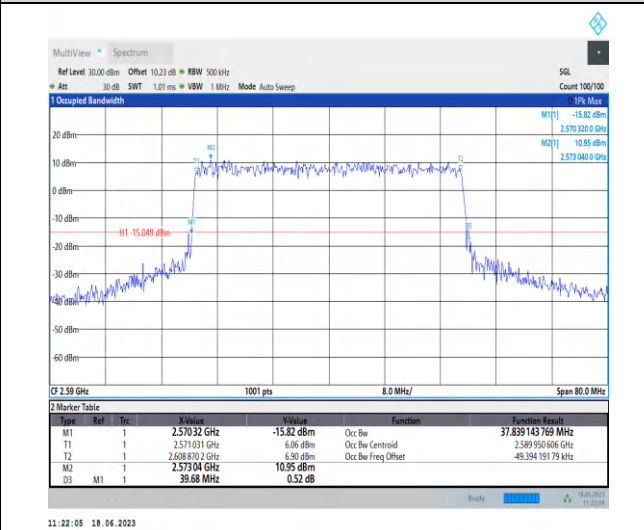
1-N38-PC3-30-40-L-5-DFT-256QAM-Outer_Full-100 @ 0-Ant0-35.783-37.440-≤40-PASS



1-N38-PC3-30-40-L-6-CP-QPSK-Outer_Full-106 @ 0-Ant0-37.734-39.680-≤40-PASS



1-N38-PC3-30-40-L-7-CP-16QAM-Outer_Full-106 @ 0-Ant0-37.718-39.440-≤40-PASS



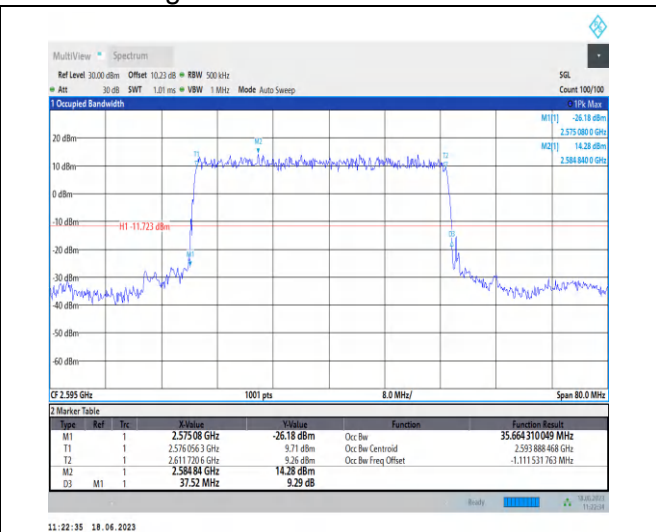
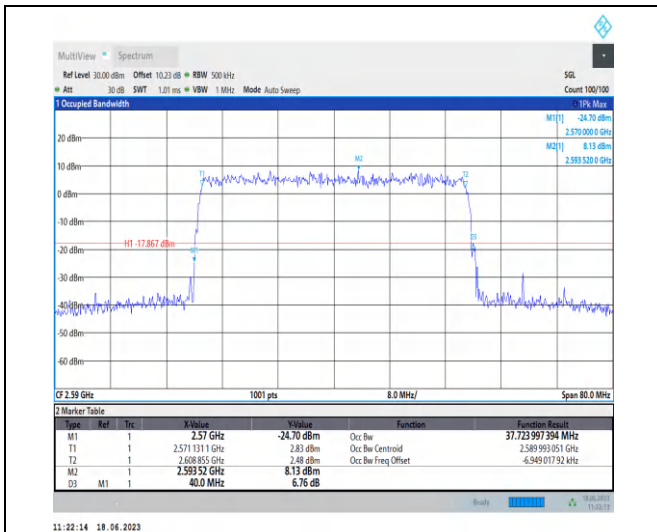
1-N38-PC3-30-40-L-8-CP-64QAM-Outer_Full-106 @ 0-Ant0-37.839-39.680-≤40-PASS



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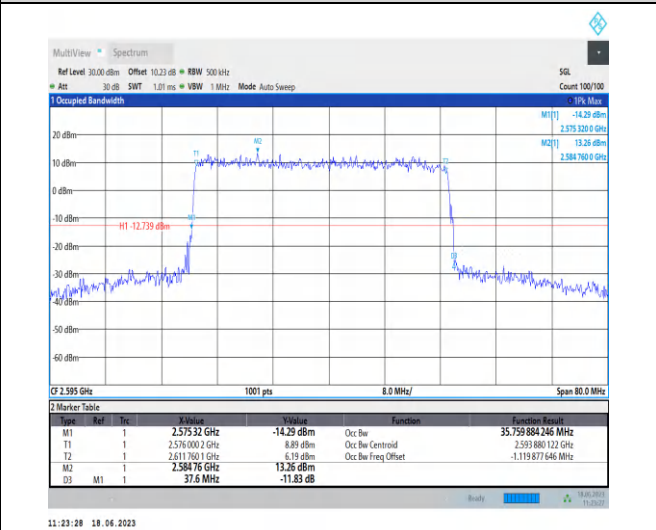
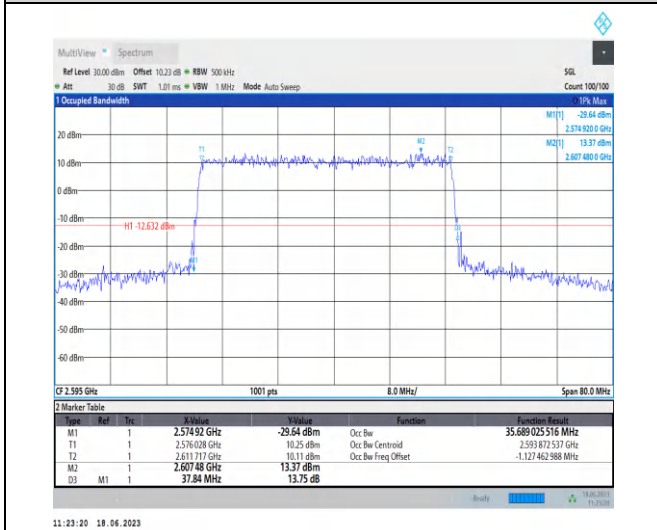
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1-N38-PC3-30-40-L-9-CP-256QAM-Outer_Full-106 @ 0-Ant0-37.724-40.000-≤40-PASS

1-N38-PC3-30-40-M-1-DFT-PI2BPSK-Outer_Full-10 @ 0-Ant0-35.664-37.520-≤40-PASS



1-N38-PC3-30-40-M-2-DFT-QPSK-Outer_Full-100 @ 0-Ant0-35.689-37.840-≤40-PASS

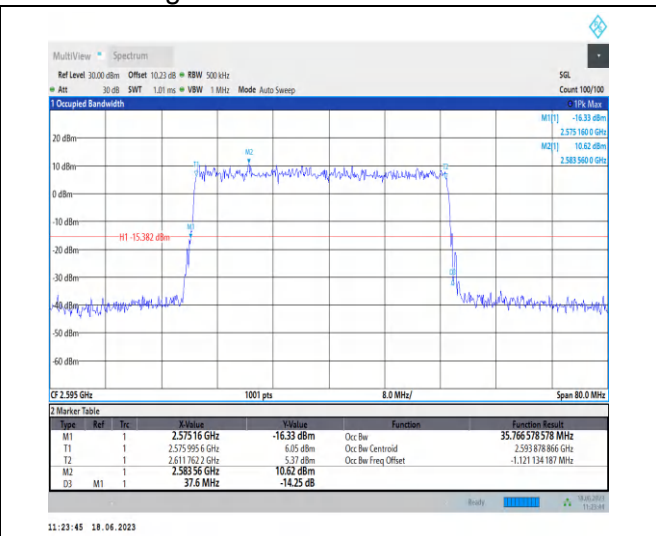
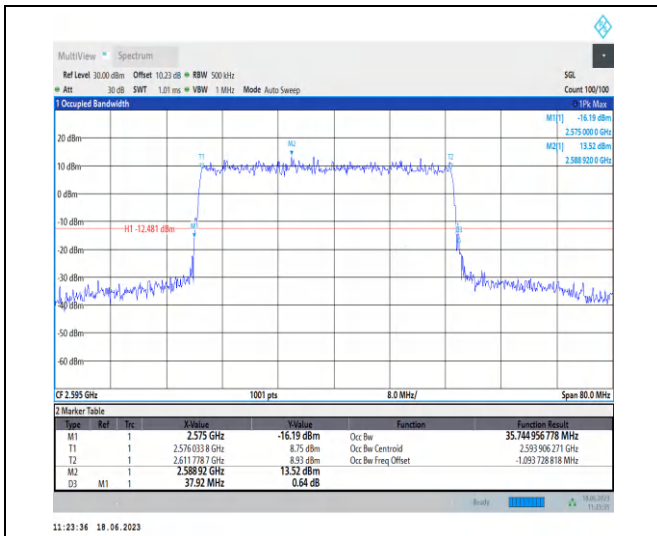
1-N38-PC3-30-40-M-3-DFT-16QAM-Outer_Full-100 @ 0-Ant0-35.76-37.600-≤40-PASS



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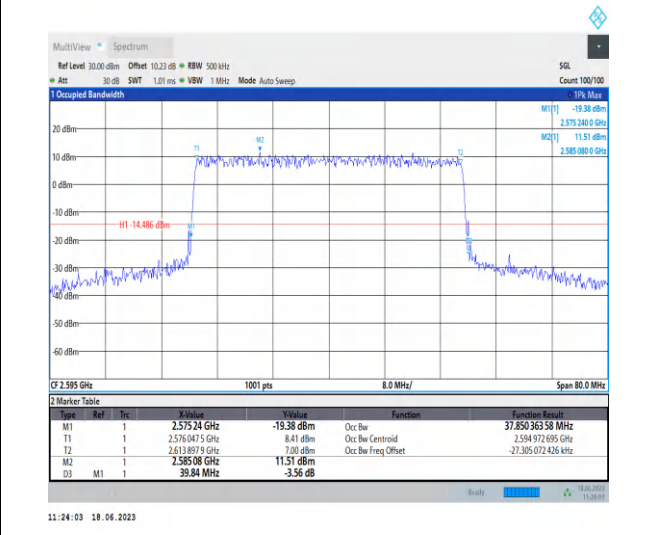
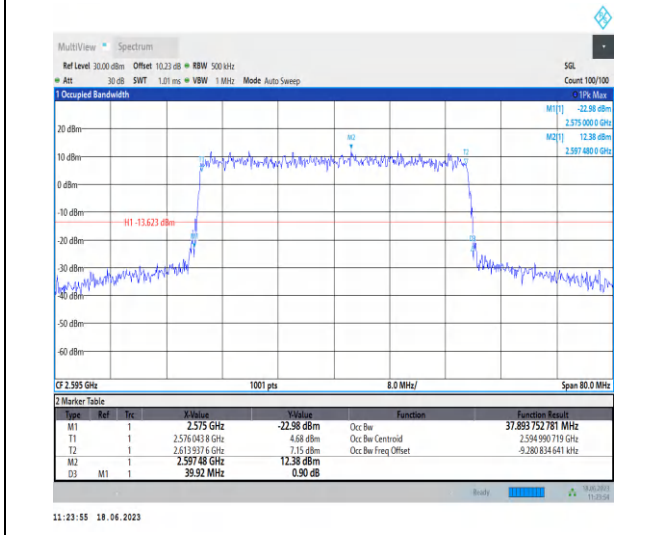
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1-N38-PC3-30-40-M-4-DFT-64QAM-Outer_Full-100 @ 0-Ant0-35.745-37.920-≤40-PASS

1-N38-PC3-30-40-M-5-DFT-256QAM-Outer_Full-100 @ 0-Ant0-35.767-37.600-≤40-PASS



1-N38-PC3-30-40-M-6-CP-QPSK-Outer_Full-106 @ 0-Ant0-37.894-39.920-≤40-PASS

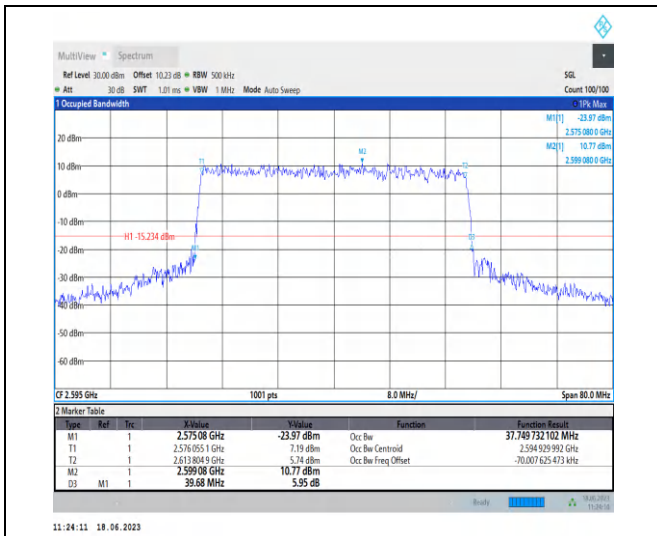
1-N38-PC3-30-40-M-7-CP-16QAM-Outer_Full-106 @ 0-Ant0-37.85-39.840-≤40-PASS



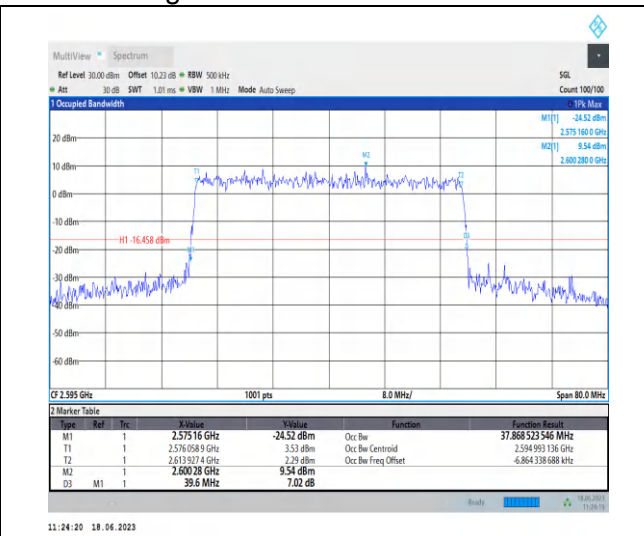
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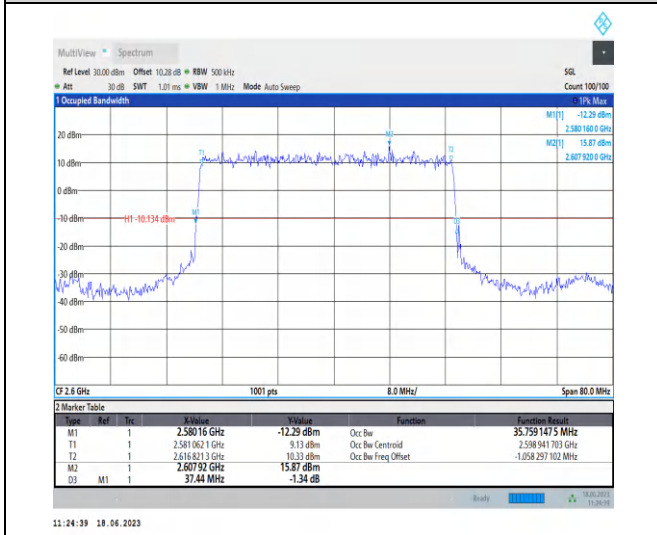
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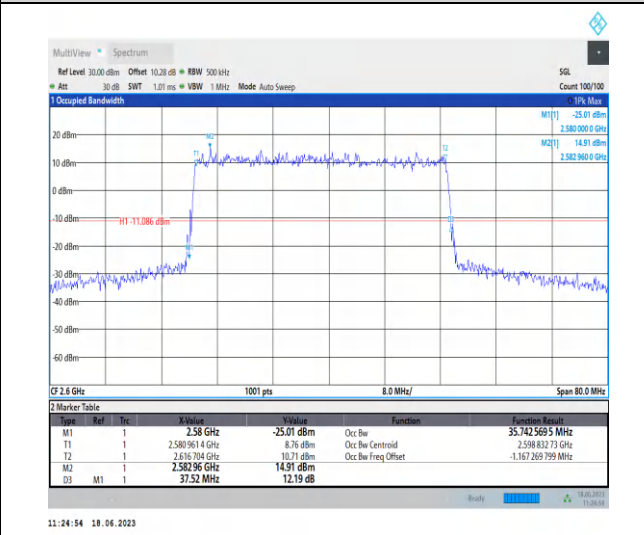
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1-N38-PC3-30-40-M-9-CP-256QAM-Outer_Full-106
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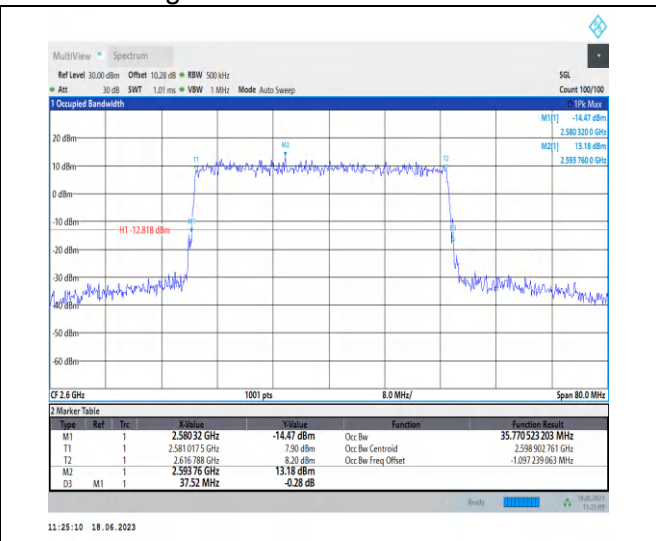
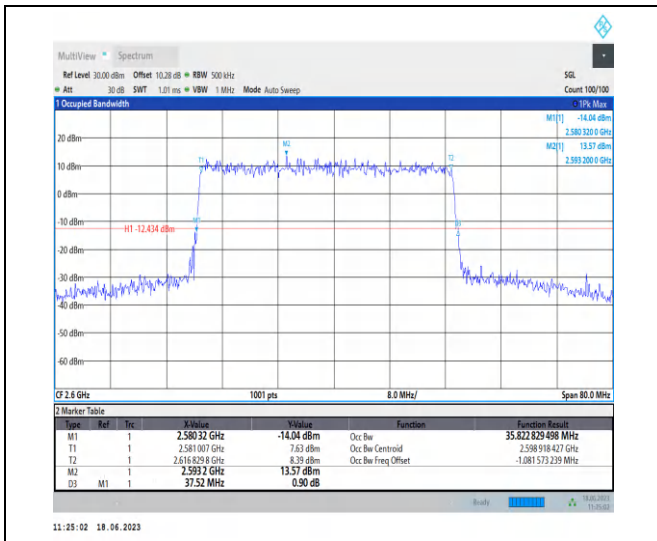


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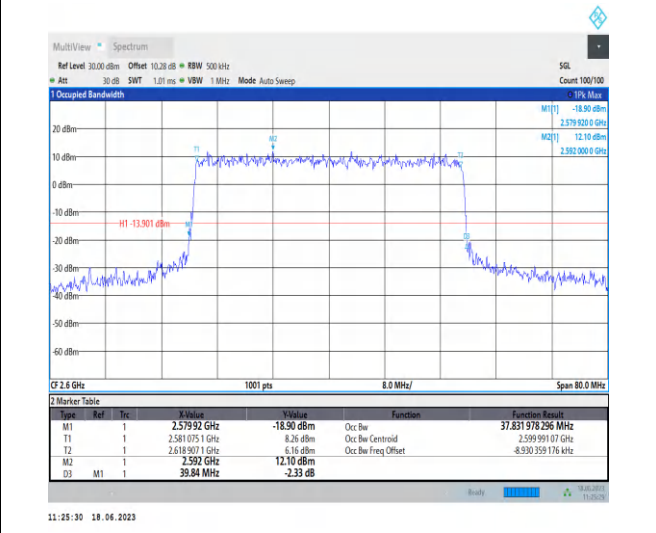
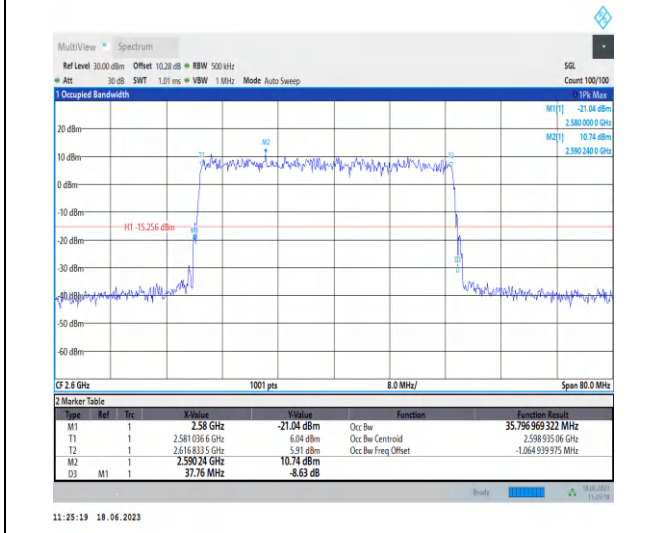
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1-N38-PC3-30-40-H-3-DFT-16QAM-Outer_Full-100 @ 0-Ant0-35.823-37.520-≤40-PASS

1-N38-PC3-30-40-H-4-DFT-64QAM-Outer_Full-100 @ 0-Ant0-35.771-37.520-≤40-PASS



1-N38-PC3-30-40-H-5-DFT-256QAM-Outer_Full-100 @ 0-Ant0-35.797-37.760-≤40-PASS

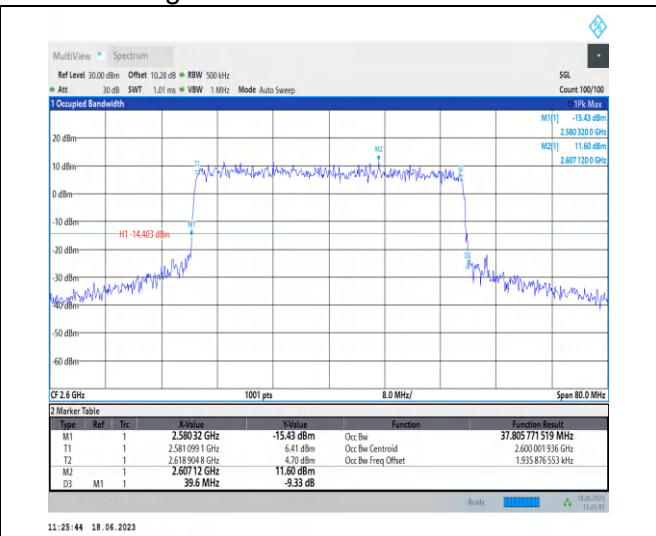
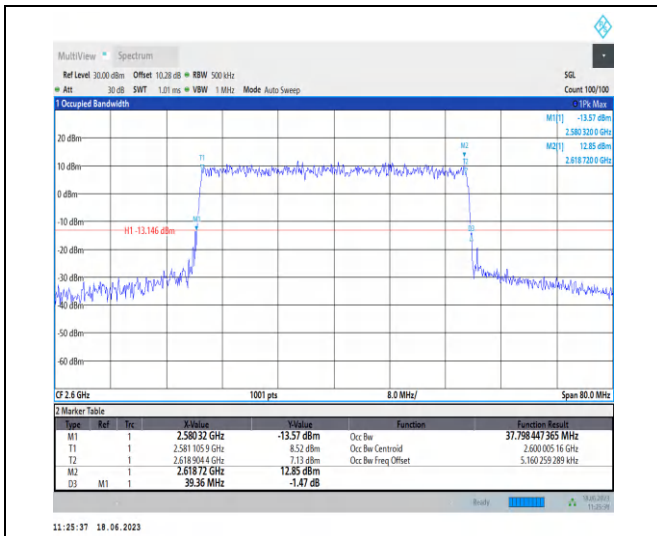
1-N38-PC3-30-40-H-6-CP-QPSK-Outer_Full-106 @ 0-Ant0-37.832-39.840-≤40-PASS



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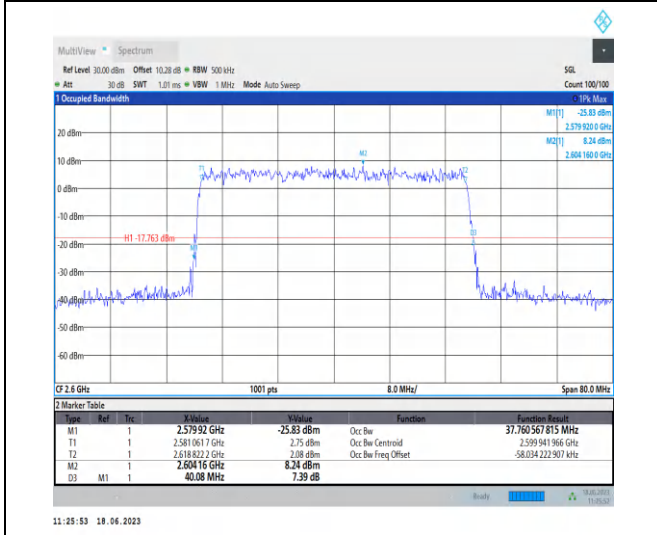
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1-N38-PC3-30-40-H-7-CP-16QAM-Outer_Full-106@
 0-Ant0-37.798-39.360-≤40-PASS

1-N38-PC3-30-40-H-8-CP-64QAM-Outer_Full-106@
 0-Ant0-37.806-39.600-≤40-PASS



1-N38-PC3-30-40-H-9-CP-256QAM-Outer_Full-106
 @0-Ant0-37.761-40.080-≤40-PASS

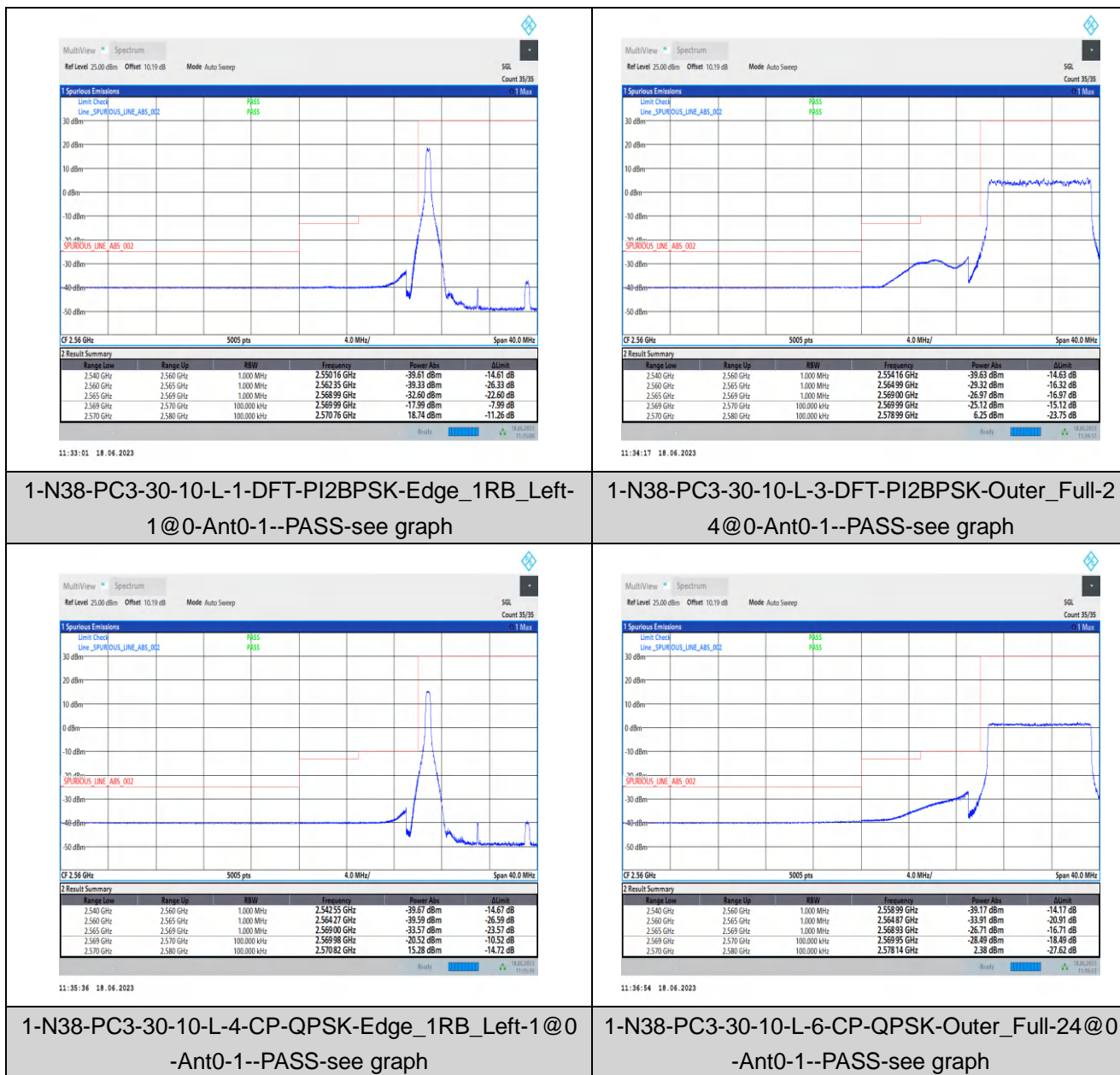


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Band Edge for SA

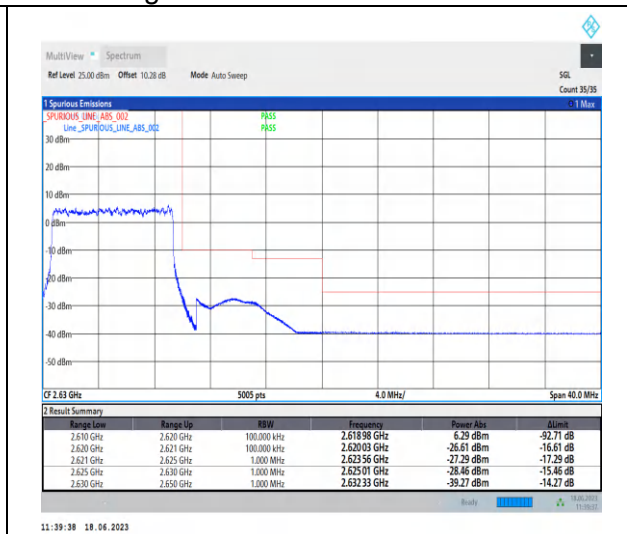
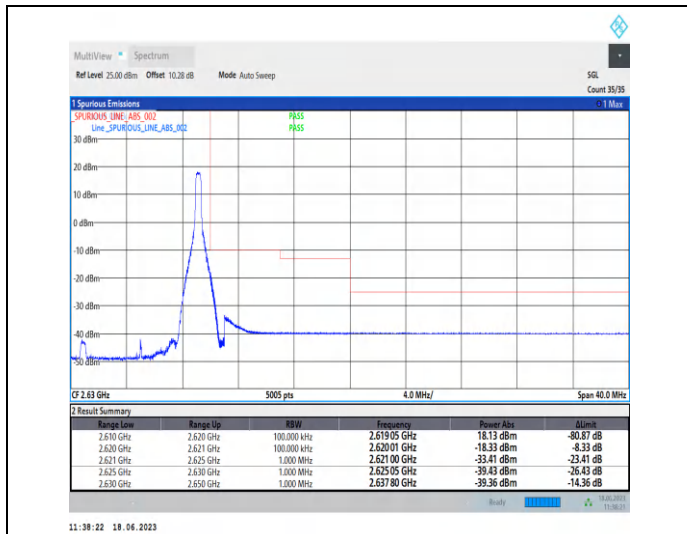
Test Graphs



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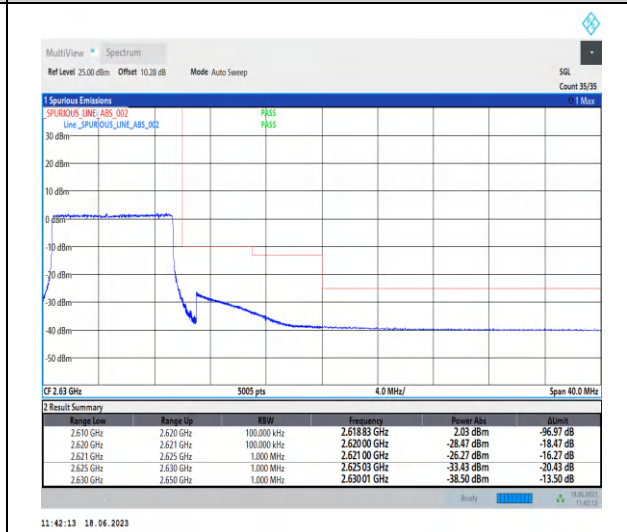
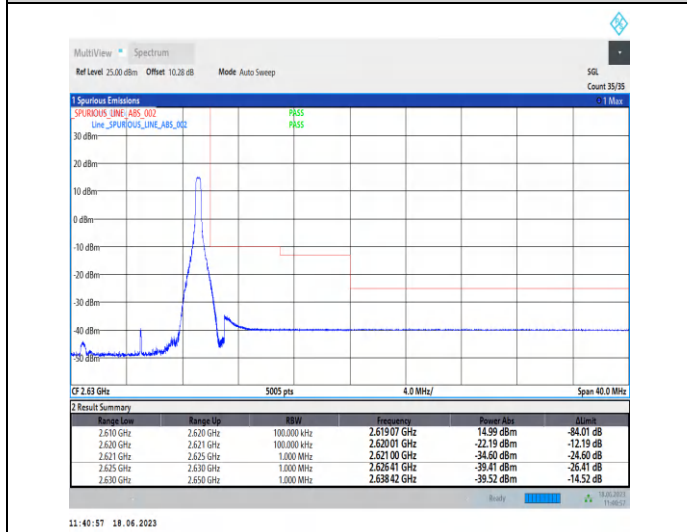
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1-N38-PC3-30-10-H-2-DFT-PI2BPSK-Edge_1RB_Righ t-1@23-Ant0-1--PASS-see graph

1-N38-PC3-30-10-H-3-DFT-PI2BPSK-Outer_Full-2 4@0-Ant0-1--PASS-see graph



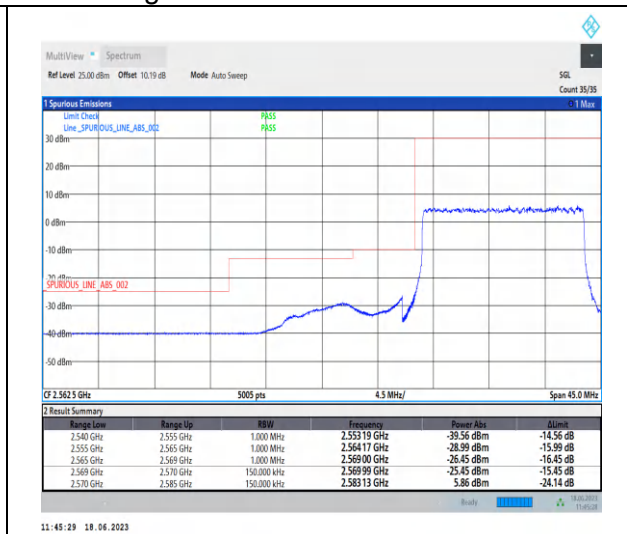
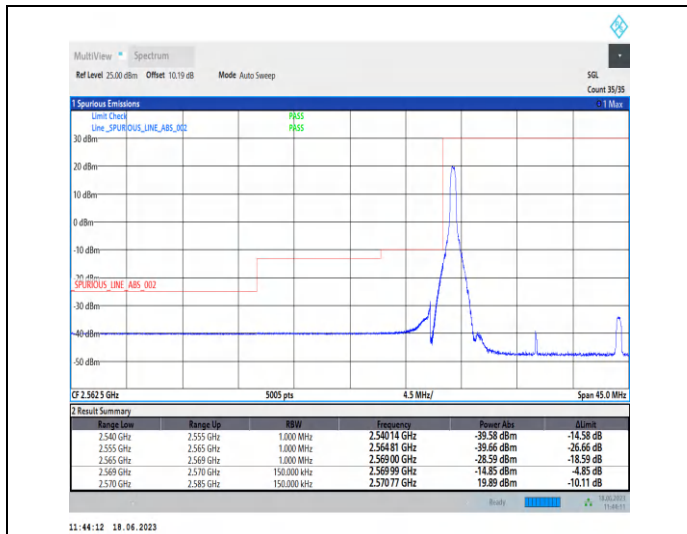
1-N38-PC3-30-10-H-5-CP-QPSK-Edge_1RB_Righ t-1@23-Ant0-1--PASS-see graph

1-N38-PC3-30-10-H-6-CP-QPSK-Outer_Full-24 @0-Ant0-1--PASS-see graph



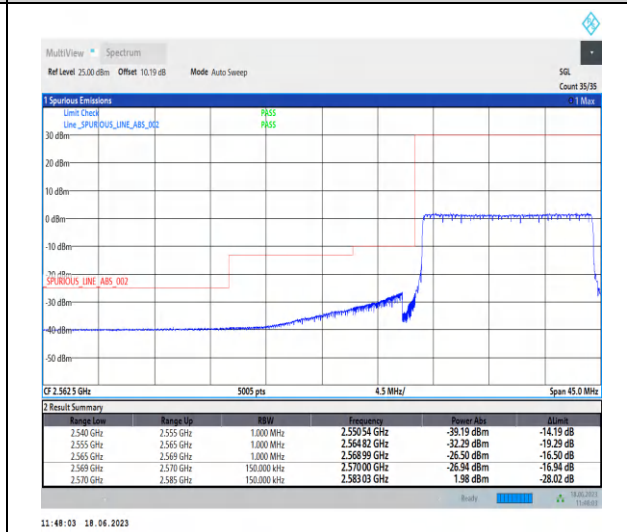
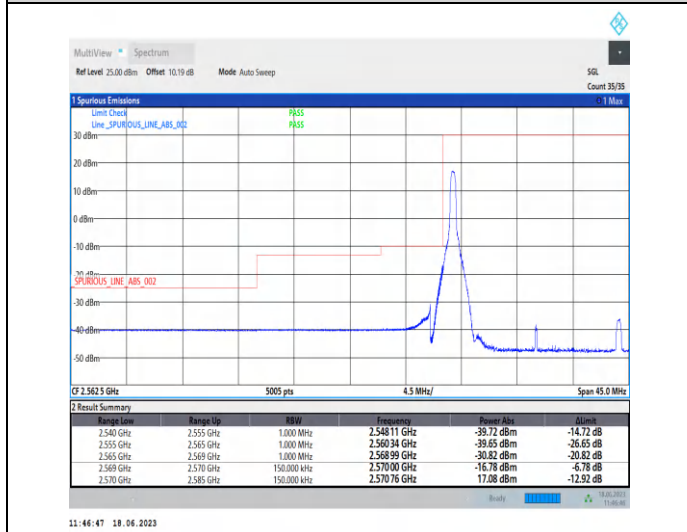
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1-N38-PC3-30-15-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

1-N38-PC3-30-15-L-3-DFT-PI2BPSK-Outer_Full-36@0-Ant0-1--PASS-see graph



1-N38-PC3-30-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

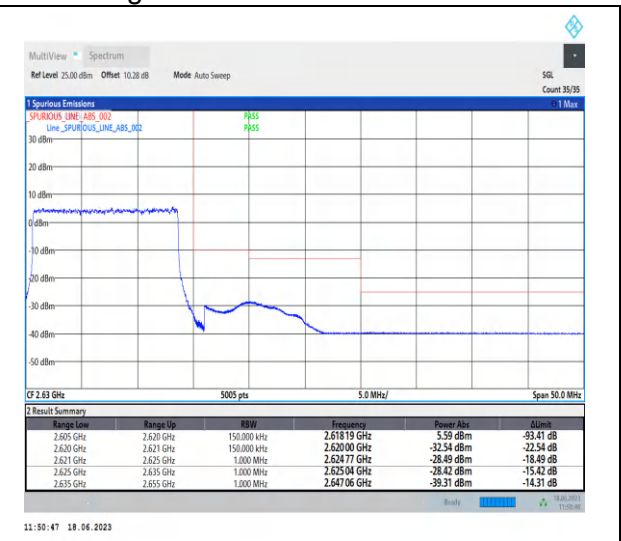
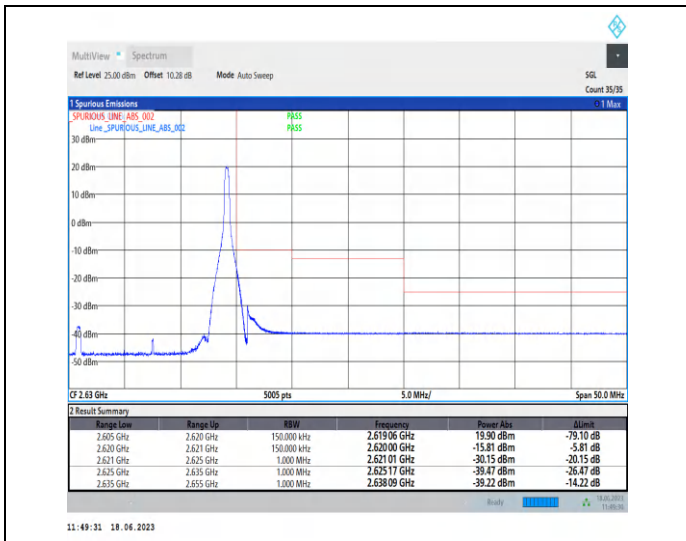
1-N38-PC3-30-15-L-6-CP-QPSK-Outer_Full-38@0-Ant0-1--PASS-see graph



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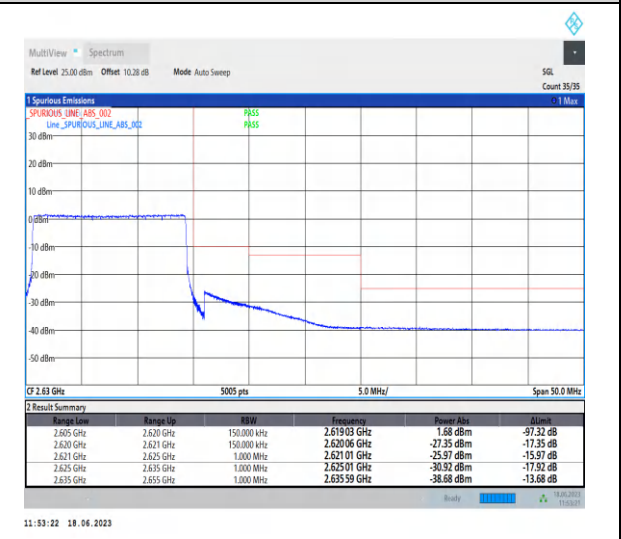
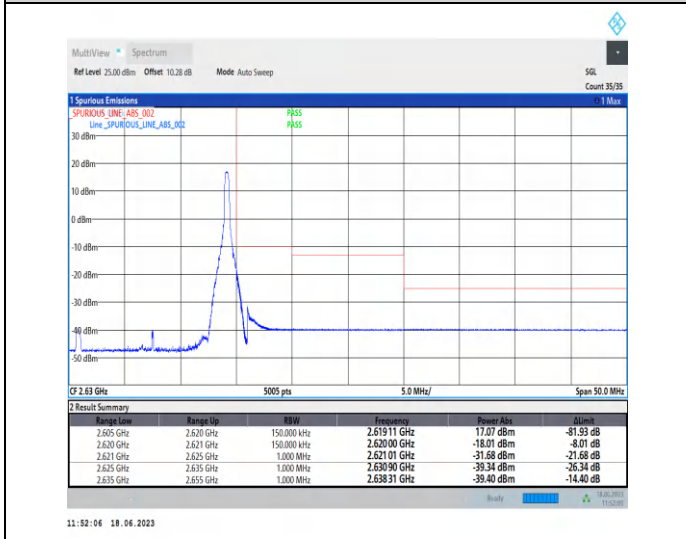
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1-N38-PC3-30-15-H-2-DFT-PI2BPSK-Edge_1RB_Righ t-1@37-Ant0-1--PASS-see graph

1-N38-PC3-30-15-H-3-DFT-PI2BPSK-Outer_Full-3 6@0-Ant0-1--PASS-see graph



1-N38-PC3-30-15-H-5-CP-QPSK-Edge_1RB_Righ t-1@37-Ant0-1--PASS-see graph

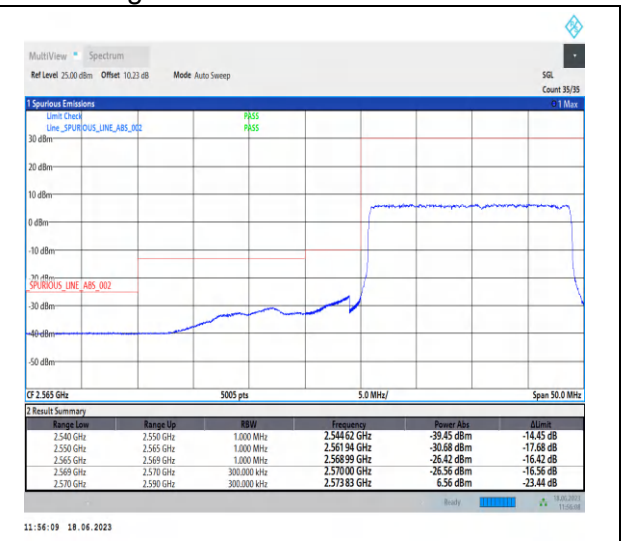
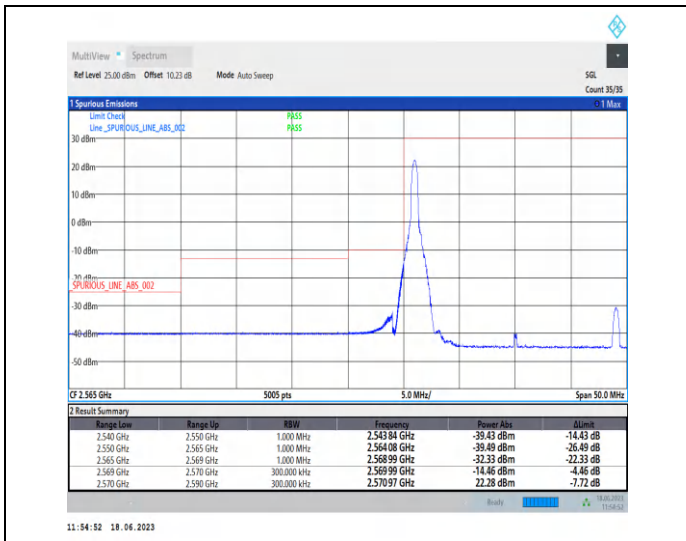
1-N38-PC3-30-15-H-6-CP-QPSK-Outer_Full-38 @0-Ant0-1--PASS-see graph



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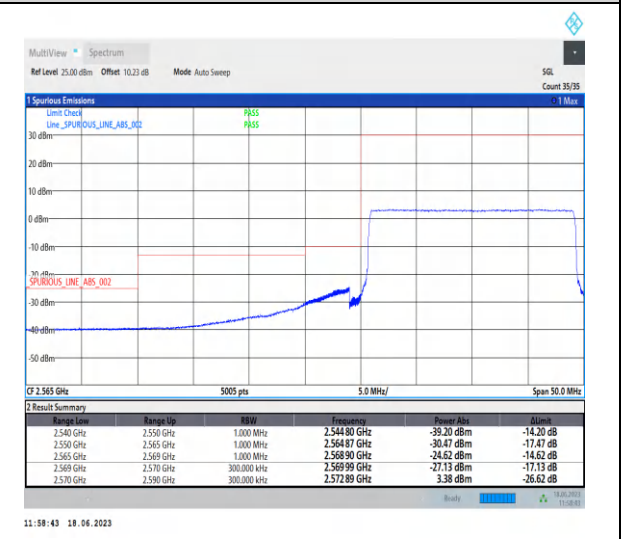
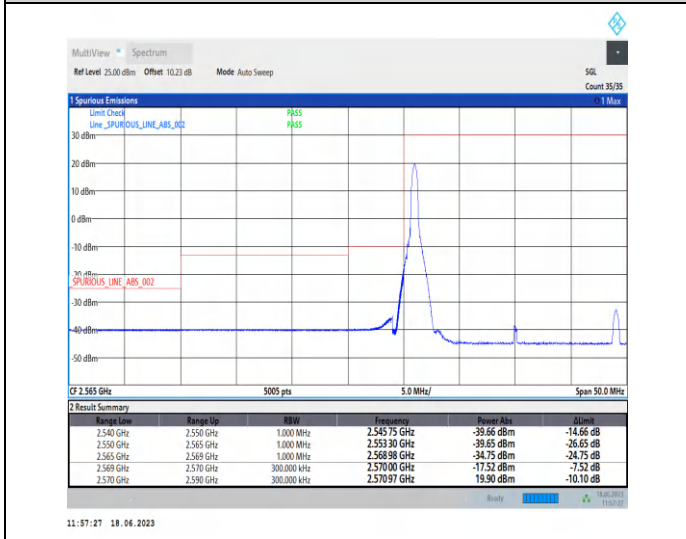
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1-N38-PC3-30-20-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

1-N38-PC3-30-20-L-3-DFT-PI2BPSK-Outer_Full-50@0-Ant0-1--PASS-see graph



1-N38-PC3-30-20-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

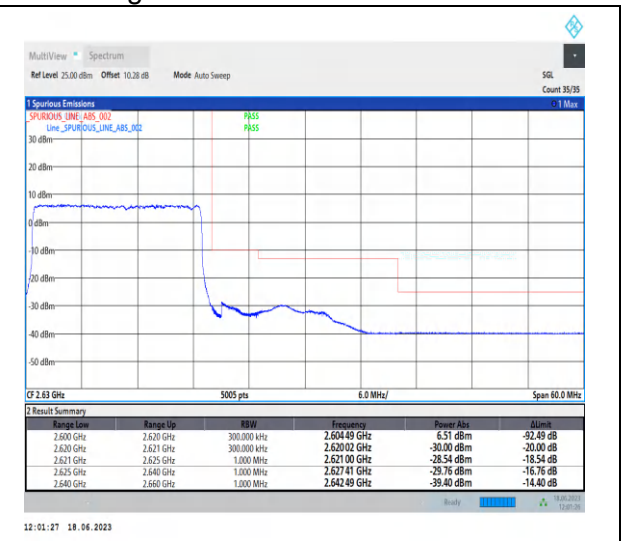
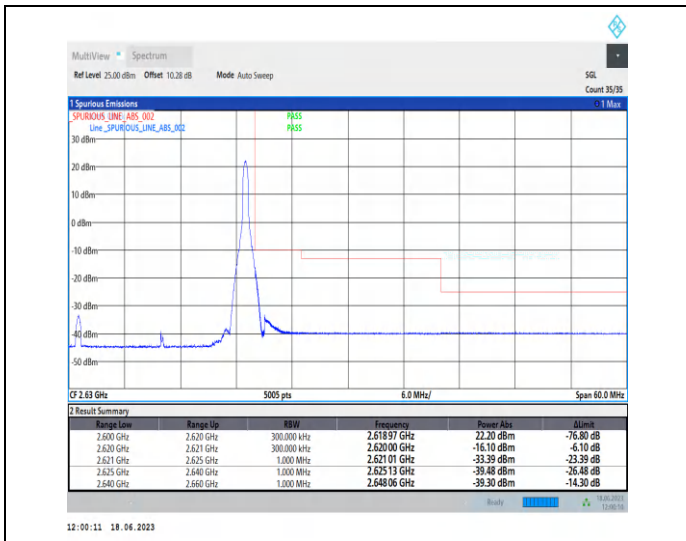
1-N38-PC3-30-20-L-6-CP-QPSK-Outer_Full-51@0-Ant0-1--PASS-see graph



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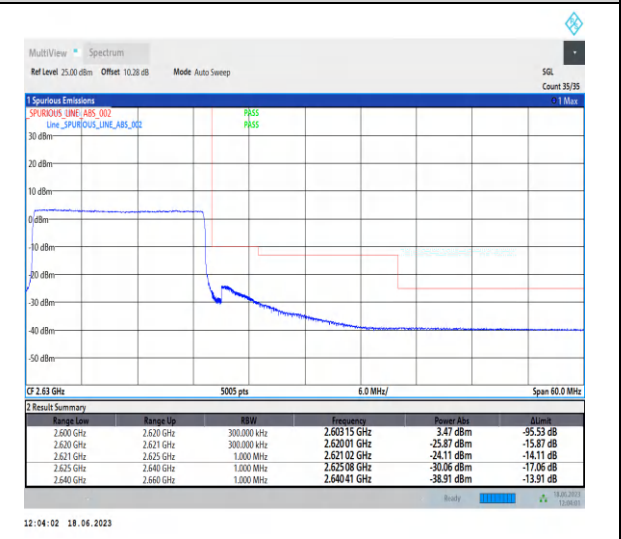
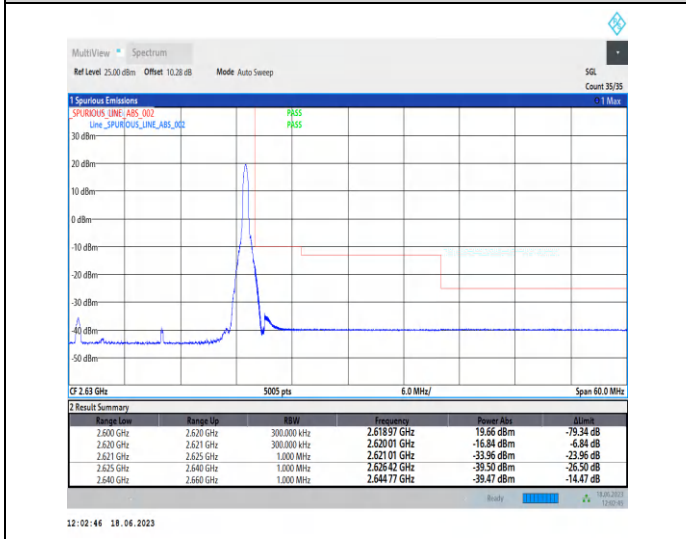
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1-N38-PC3-30-20-H-2-DFT-PI2BPSK-Edge_1RB_Righ t-1@50-Ant0-1--PASS-see graph

1-N38-PC3-30-20-H-3-DFT-PI2BPSK-Outer_Full-5 0@0-Ant0-1--PASS-see graph



1-N38-PC3-30-20-H-5-CP-QPSK-Edge_1RB_Righ t-1@50-Ant0-1--PASS-see graph

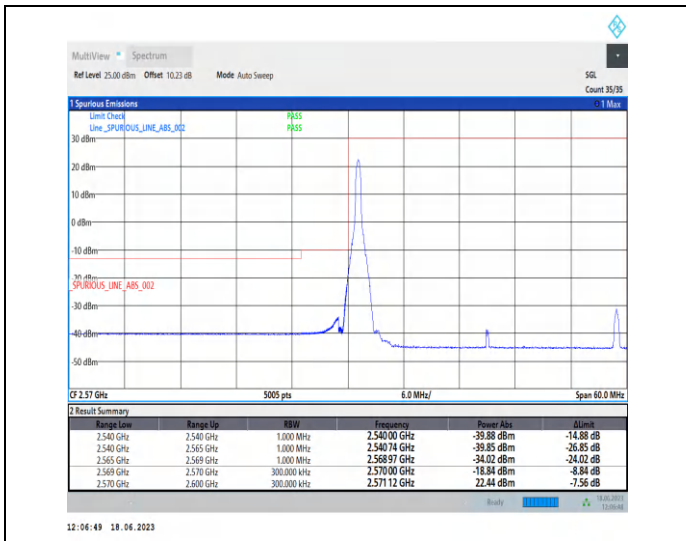
1-N38-PC3-30-20-H-6-CP-QPSK-Outer_Full-51 @ 0-Ant0-1--PASS-see graph



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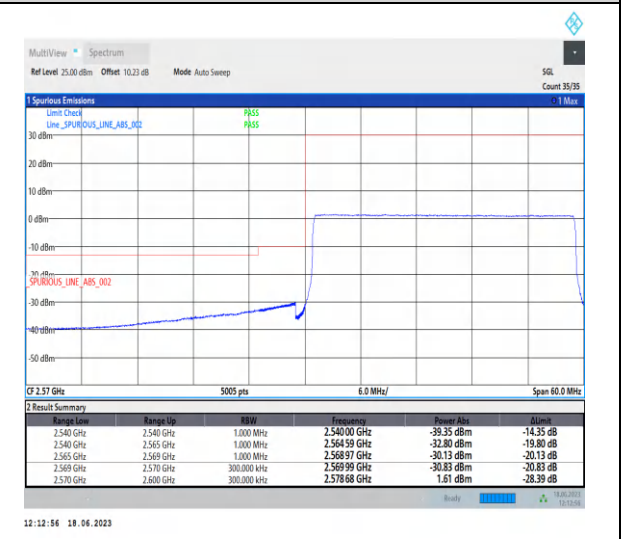
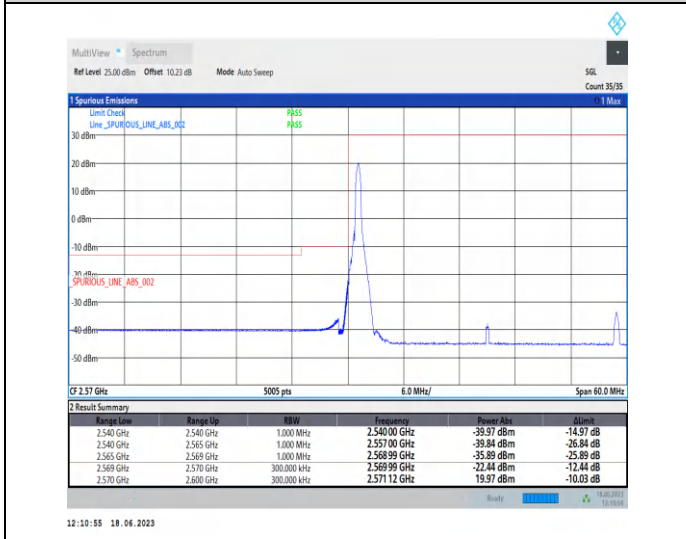
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1-N38-PC3-30-30-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

1-N38-PC3-30-30-L-3-DFT-PI2BPSK-Outer_Full-75@0-Ant0-1--PASS-see graph



1-N38-PC3-30-30-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

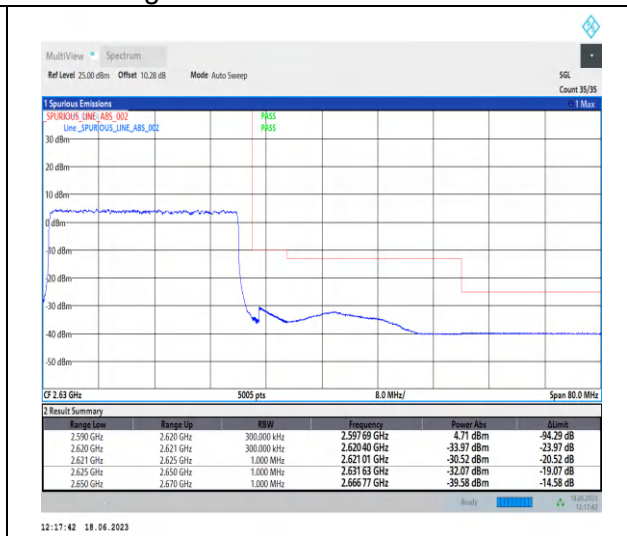
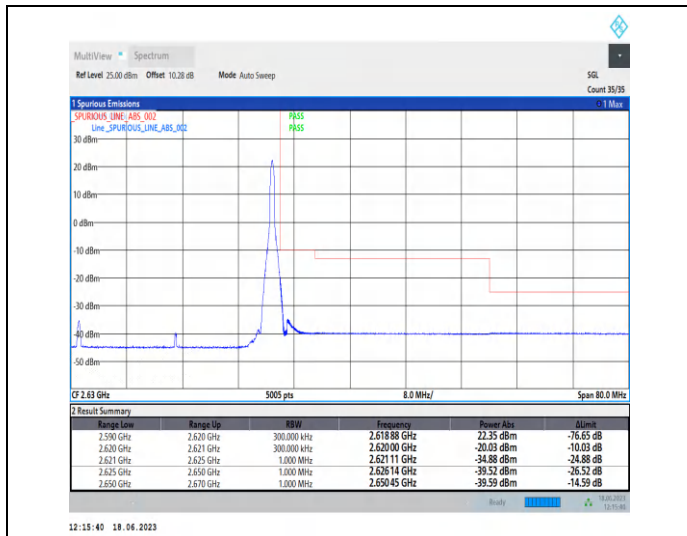
1-N38-PC3-30-30-L-6-CP-QPSK-Outer_Full-78@0-Ant0-1--PASS-see graph



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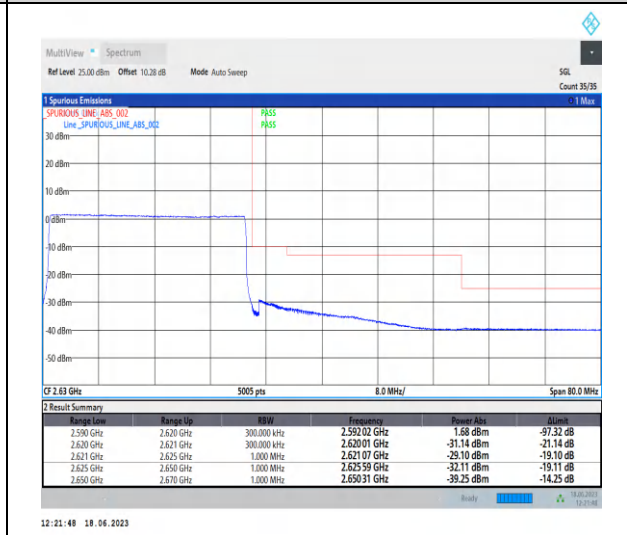
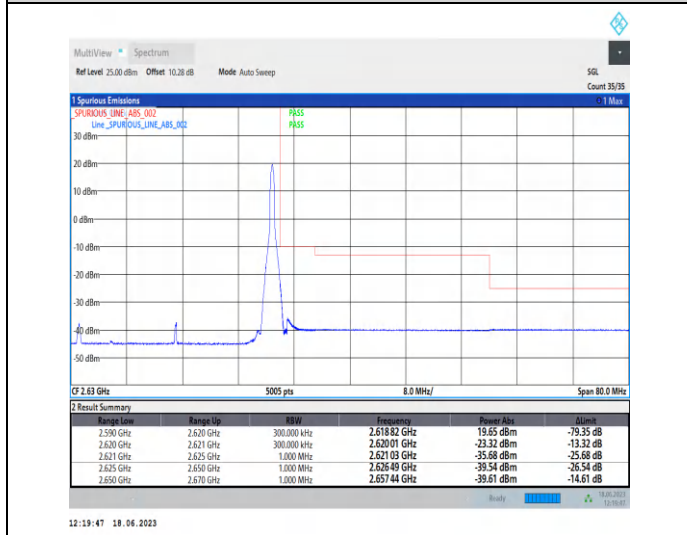
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1-N38-PC3-30-30-H-2-DFT-PI2BPSK-Edge_1RB_Righ t-1@77-Ant0-1--PASS-see graph

1-N38-PC3-30-30-H-3-DFT-PI2BPSK-Outer_Full-7 5@0-Ant0-1--PASS-see graph



1-N38-PC3-30-30-H-5-CP-QPSK-Edge_1RB_Righ t-1@77-Ant0-1--PASS-see graph

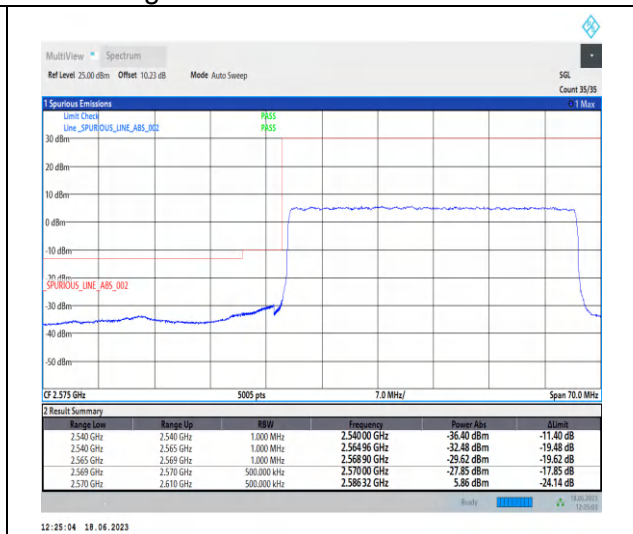
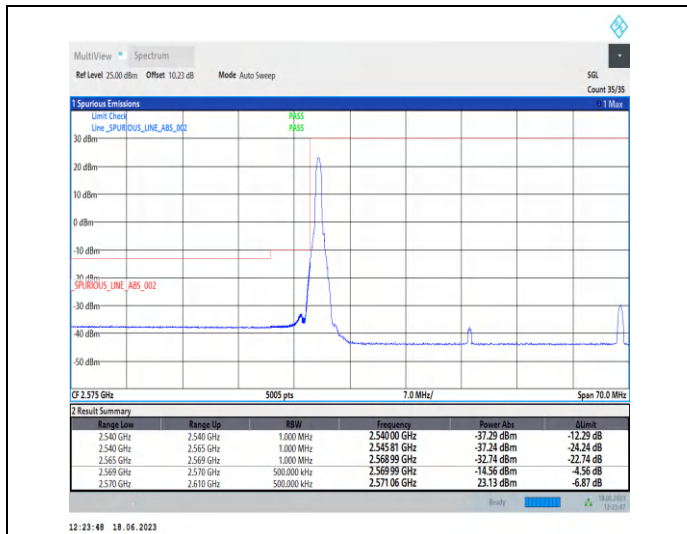
1-N38-PC3-30-30-H-6-CP-QPSK-Outer_Full-78@ 0-Ant0-1--PASS-see graph



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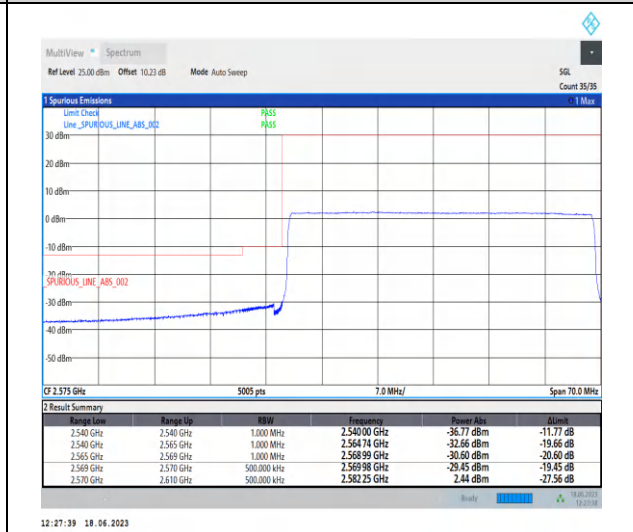
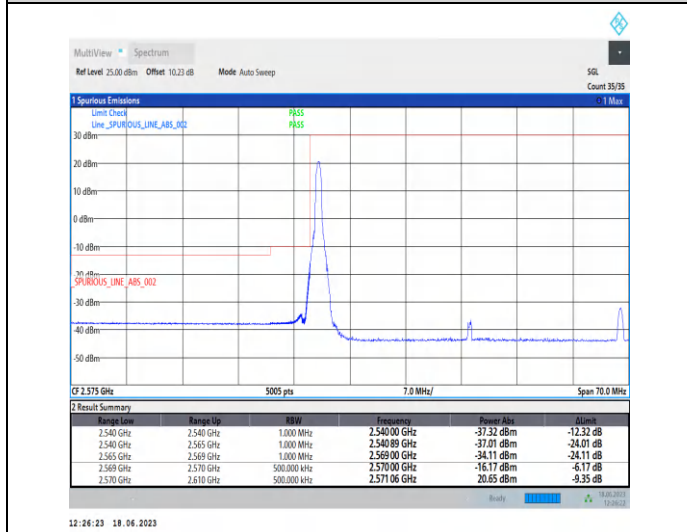
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1-N38-PC3-30-40-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

1-N38-PC3-30-40-L-3-DFT-PI2BPSK-Outer_Full-100@0-Ant0-1--PASS-see graph



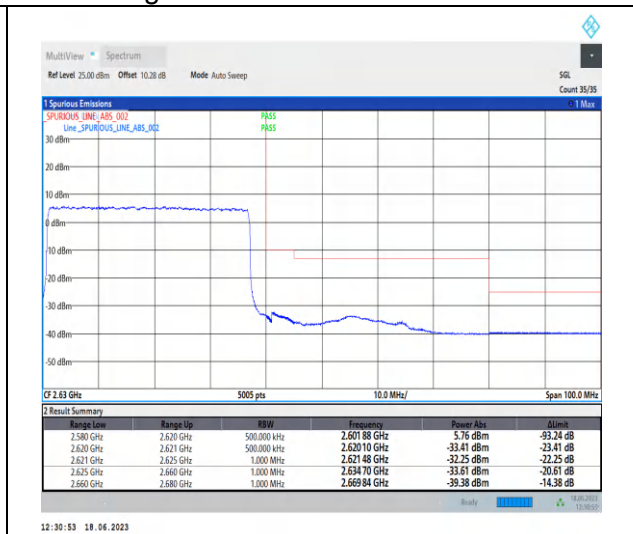
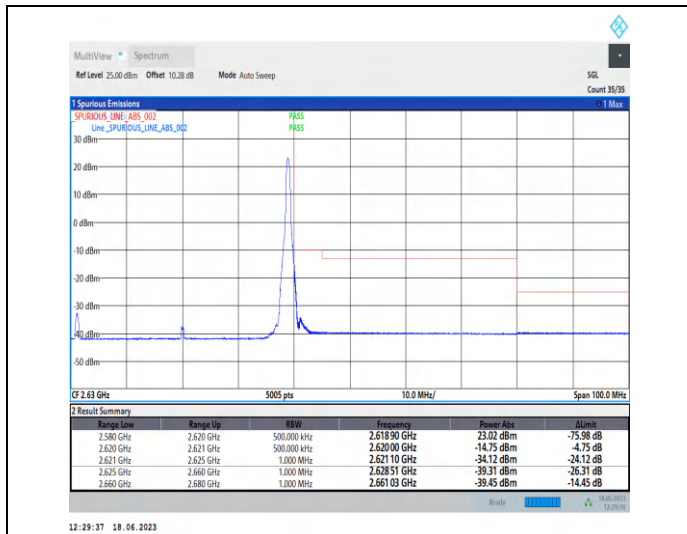
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1-N38-PC3-30-40-L-6-CP-QPSK-Outer_Full-106@0-Ant0-1--PASS-see graph



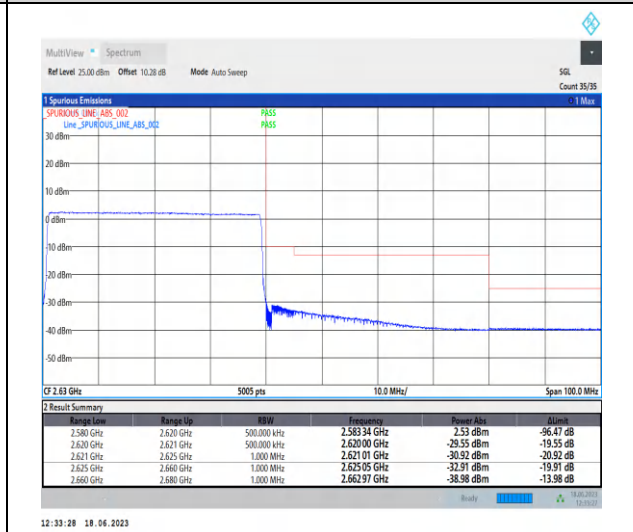
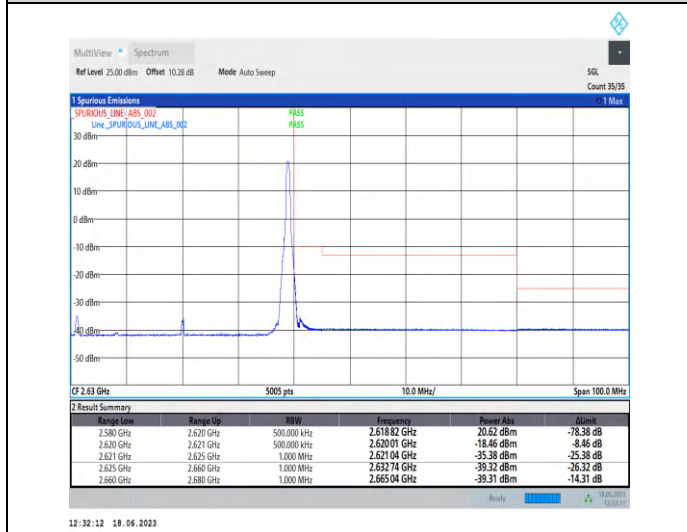
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1-N38-PC3-30-40-H-2-DFT-PI2BPSK-Edge_1RB_Righ t-1@105-Ant0-1--PASS-see graph

1-N38-PC3-30-40-H-3-DFT-PI2BPSK-Outer_Full-1 00@0-Ant0-1--PASS-see graph



1-N38-PC3-30-40-H-5-CP-QPSK-Edge_1RB_Right-1 @105-Ant0-1--PASS-see graph

1-N38-PC3-30-40-H-6-CP-QPSK-Outer_Full-106 @0-Ant0-1--PASS-see graph

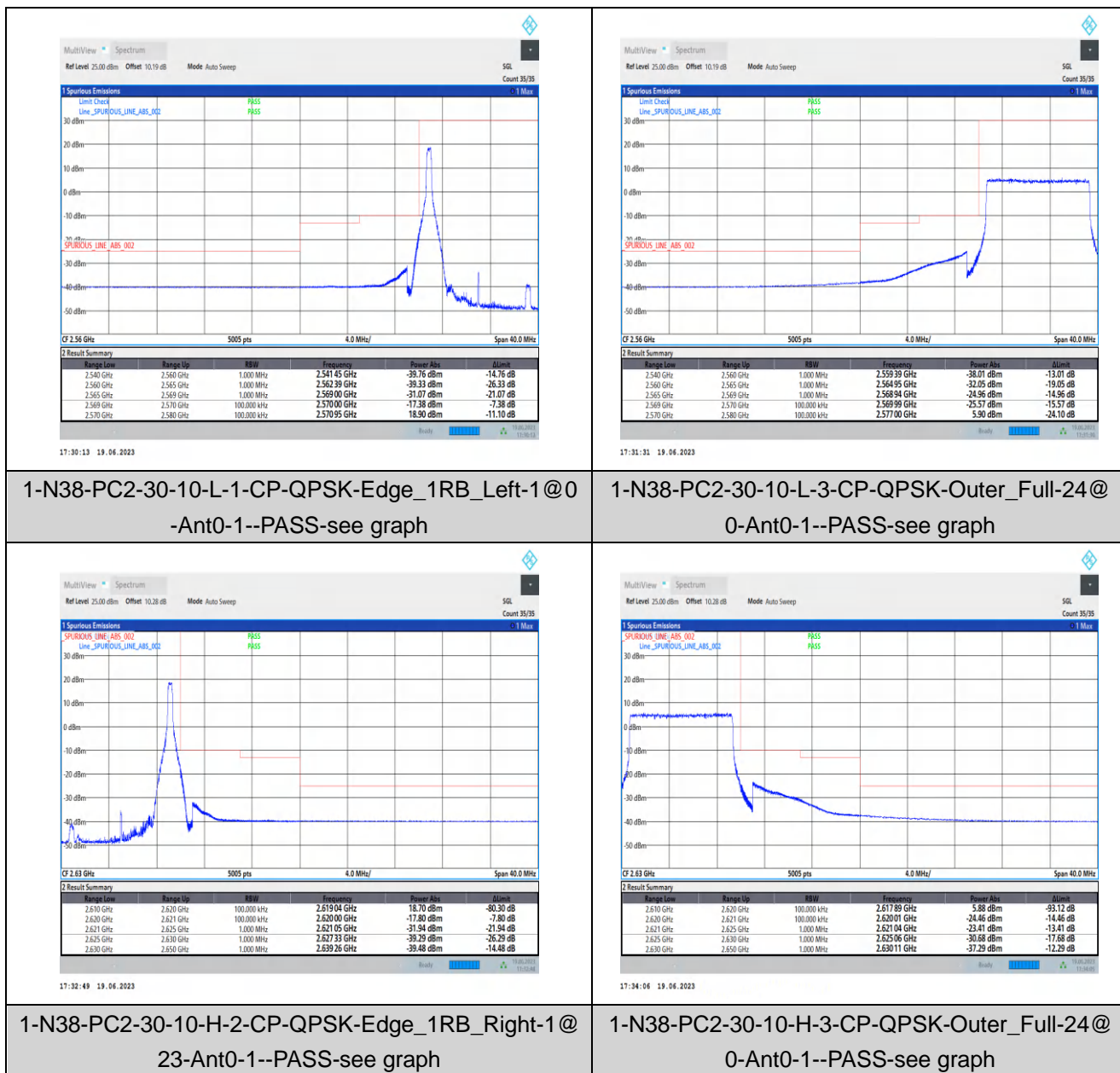


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Band Edge for MIMO

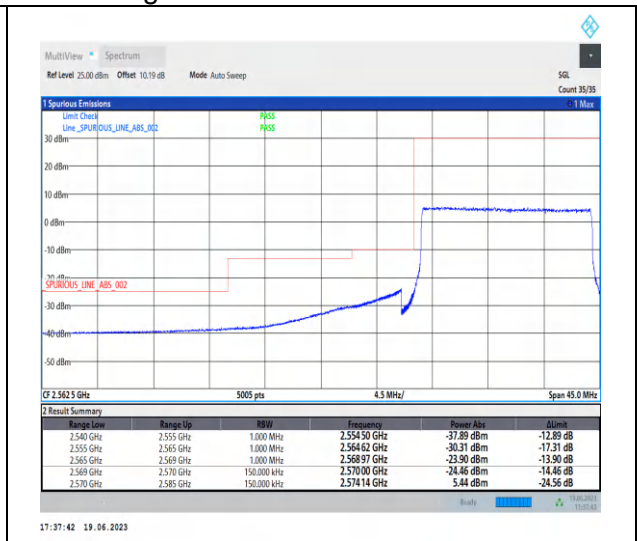
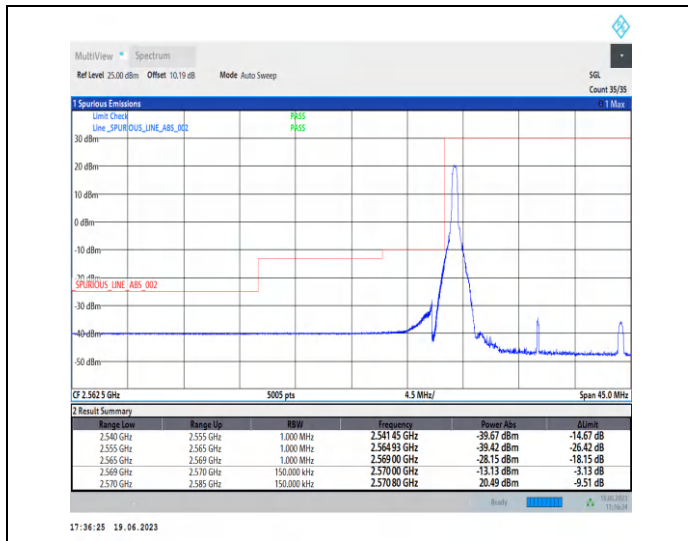
Test Graphs



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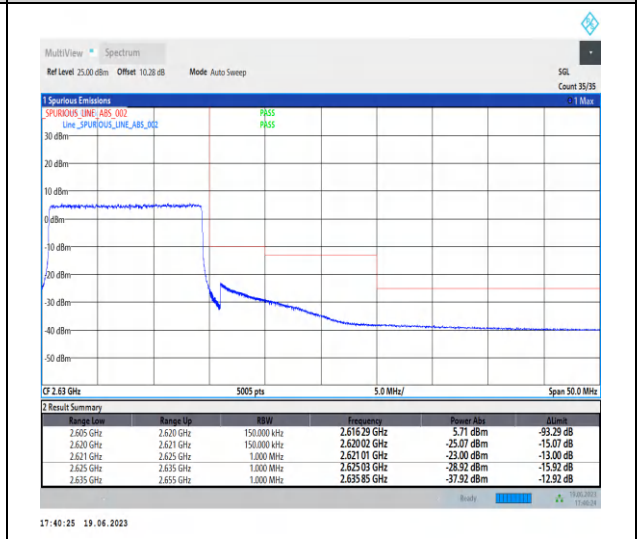
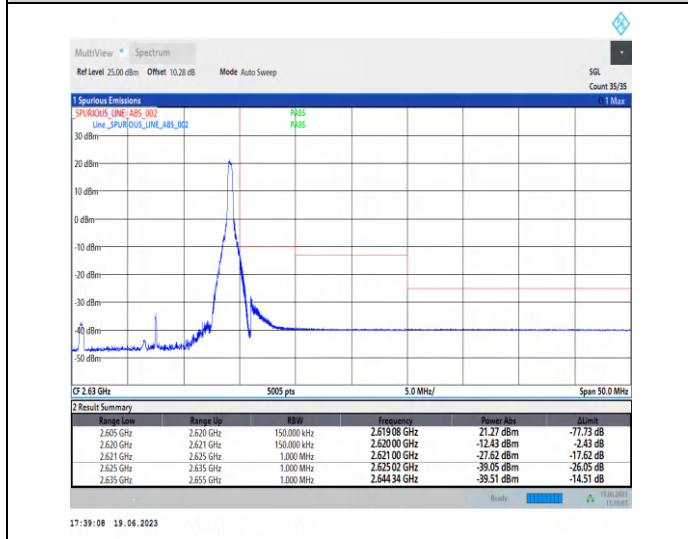
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1-N38-PC2-30-15-L-1-CP-QPSK-Edge_1RB_Left-1@0
 -Ant0-1--PASS-see graph

1-N38-PC2-30-15-L-3-CP-QPSK-Outer_Full-38@0
 -Ant0-1--PASS-see graph



1-N38-PC2-30-15-H-2-CP-QPSK-Edge_1RB_Right-1@37-Ant0-1--PASS-see graph

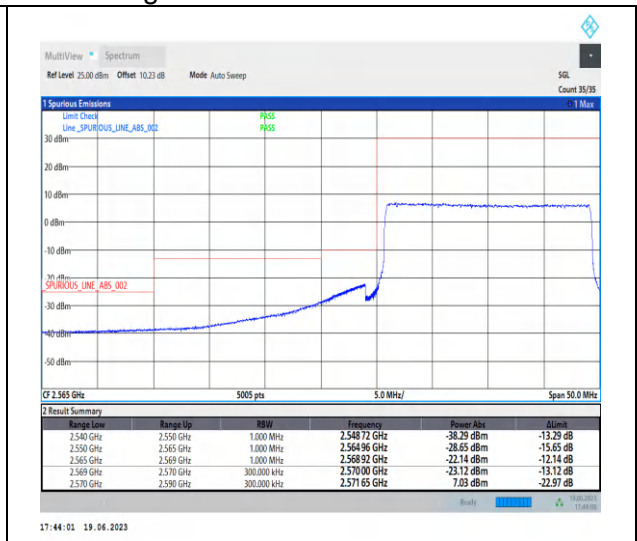
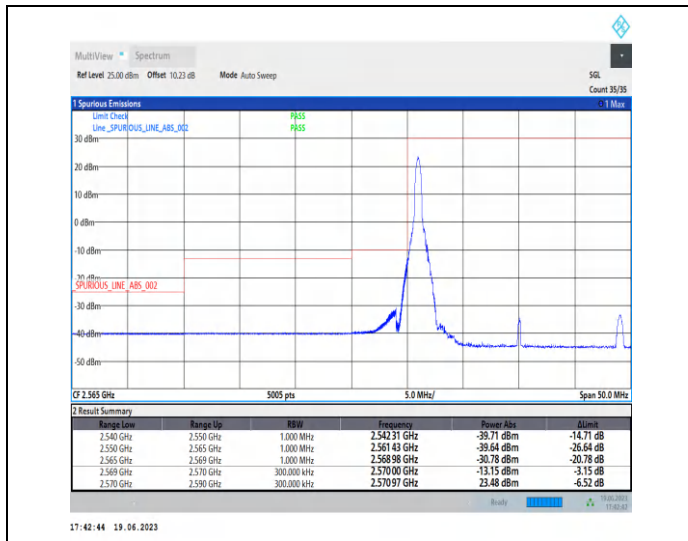
1-N38-PC2-30-15-H-3-CP-QPSK-Outer_Full-38@0-Ant0-1--PASS-see graph



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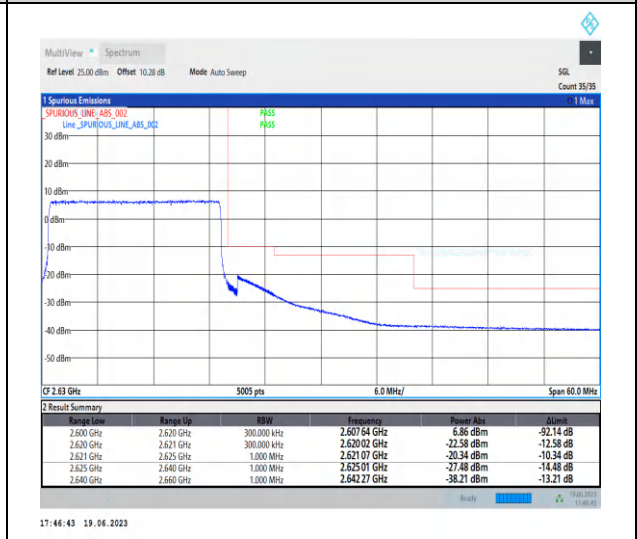
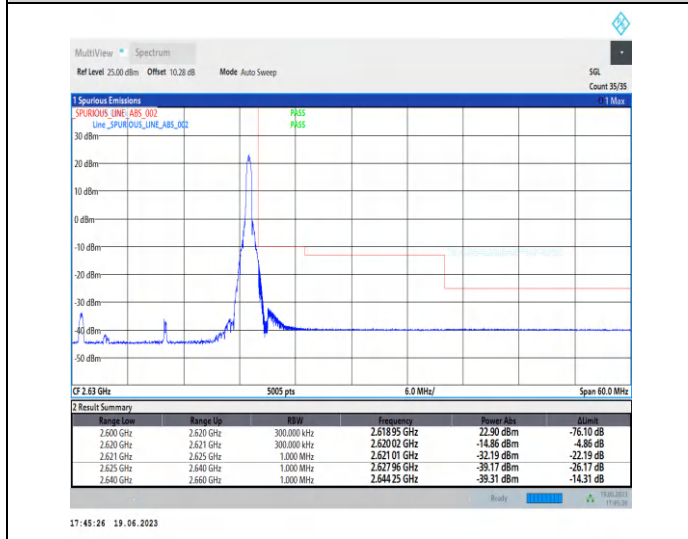
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1-N38-PC2-30-20-L-1-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

1-N38-PC2-30-20-L-3-CP-QPSK-Outer_Full-51@0-Ant0-1--PASS-see graph



1-N38-PC2-30-20-H-2-CP-QPSK-Edge_1RB_Right-1@50-Ant0-1--PASS-see graph

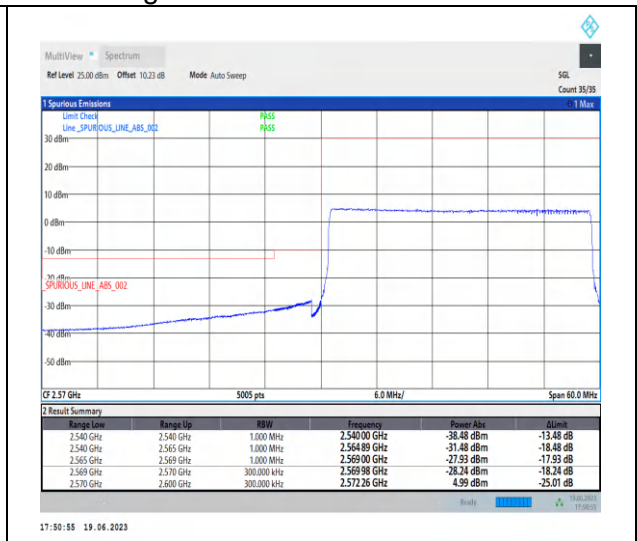
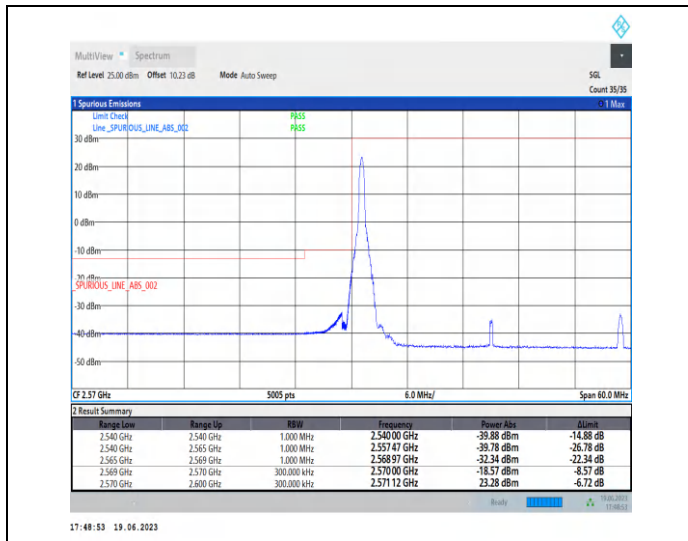
1-N38-PC2-30-20-H-3-CP-QPSK-Outer_Full-51@0-Ant0-1--PASS-see graph



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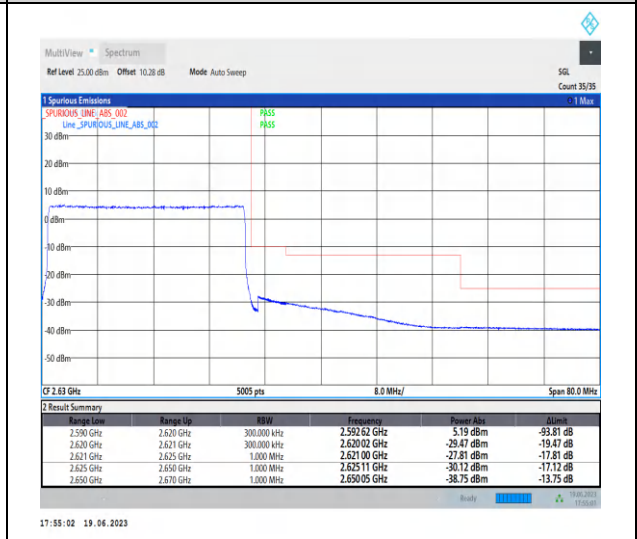
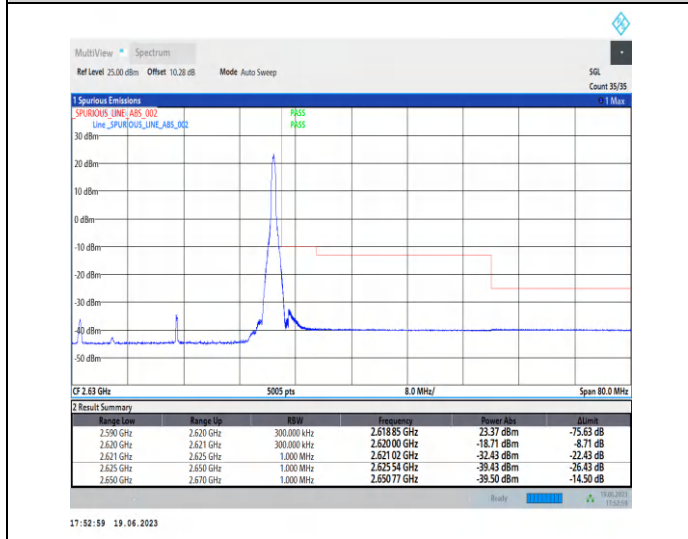
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1-N38-PC2-30-30-L-1-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

1-N38-PC2-30-30-L-3-CP-QPSK-Outer_Full-78@0-Ant0-1--PASS-see graph



1-N38-PC2-30-30-H-2-CP-QPSK-Edge_1RB_Right-1@77-Ant0-1--PASS-see graph

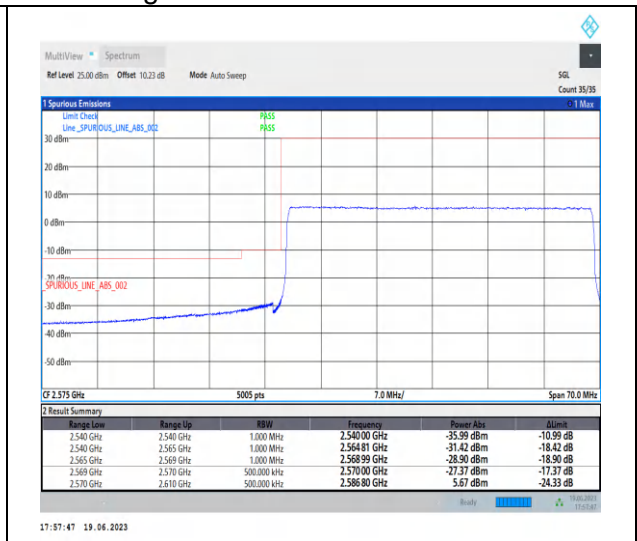
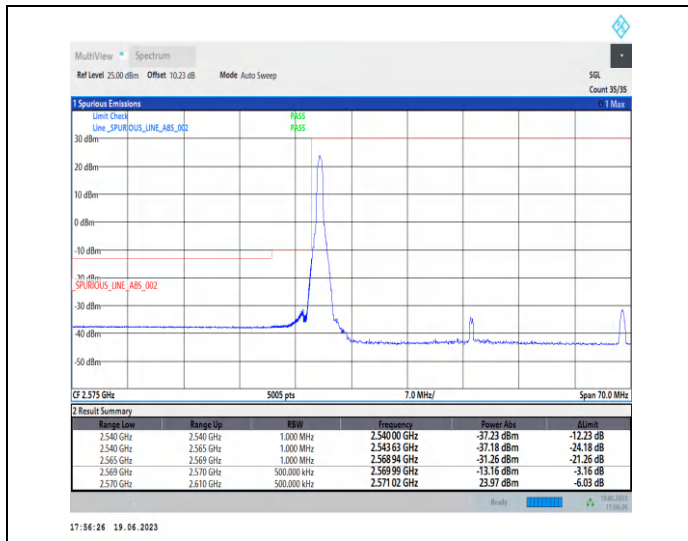
1-N38-PC2-30-30-H-3-CP-QPSK-Outer_Full-78@0-Ant0-1--PASS-see graph



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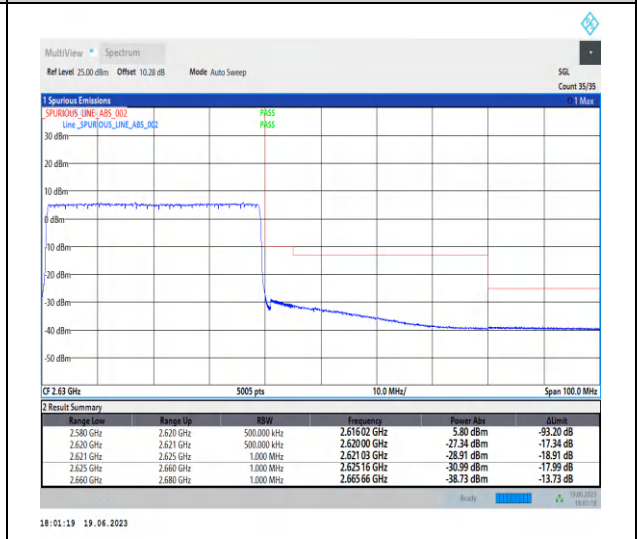
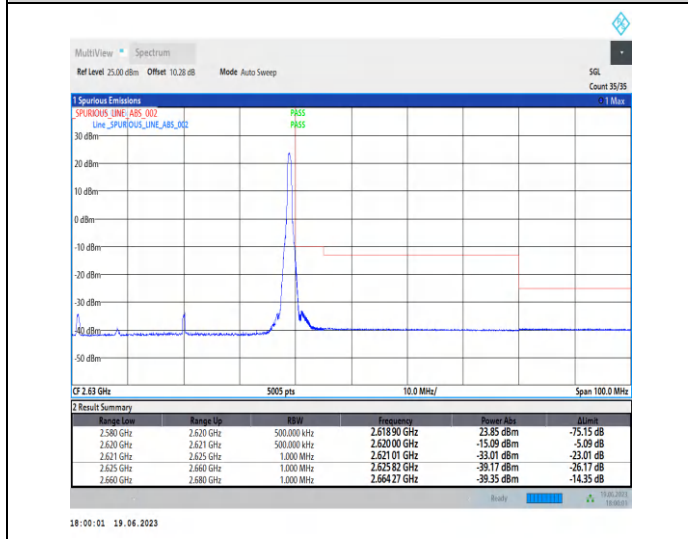
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1-N38-PC2-30-40-L-1-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

1-N38-PC2-30-40-L-3-CP-QPSK-Outer_Full-106@0-Ant0-1--PASS-see graph



1-N38-PC2-30-40-H-2-CP-QPSK-Edge_1RB_Right-1@105-Ant0-1--PASS-see graph

1-N38-PC2-30-40-H-3-CP-QPSK-Outer_Full-106@0-Ant0-1--PASS-see graph

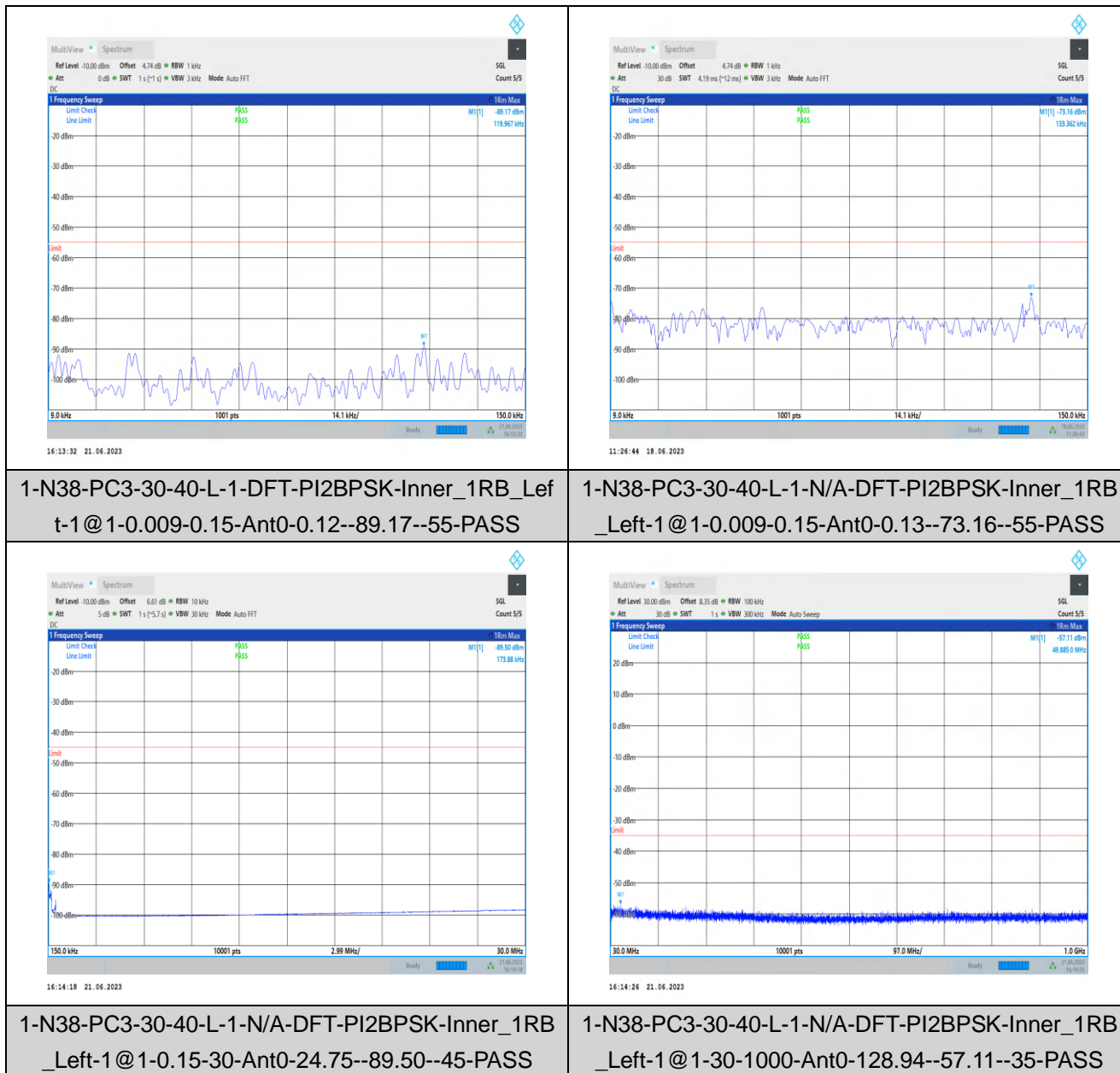


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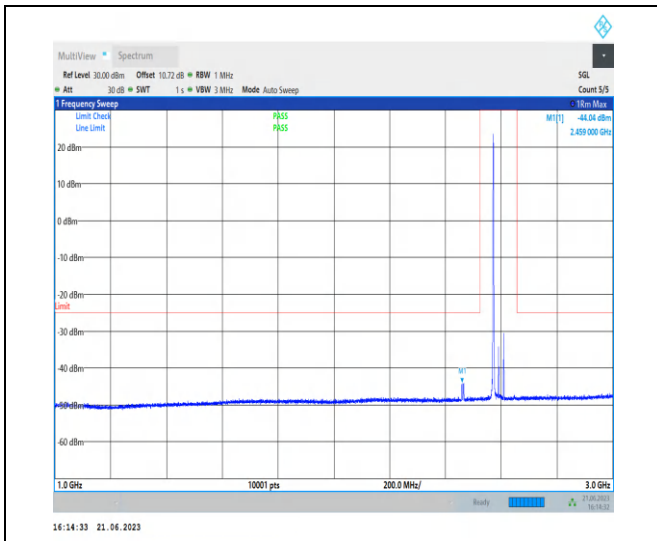
Test Graphs



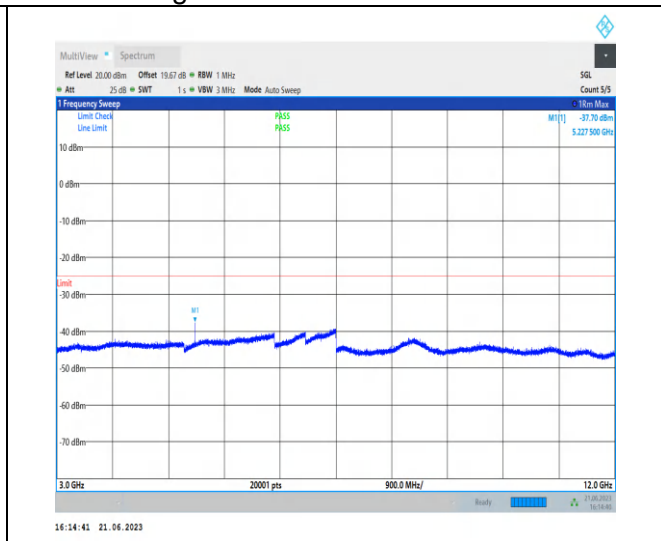
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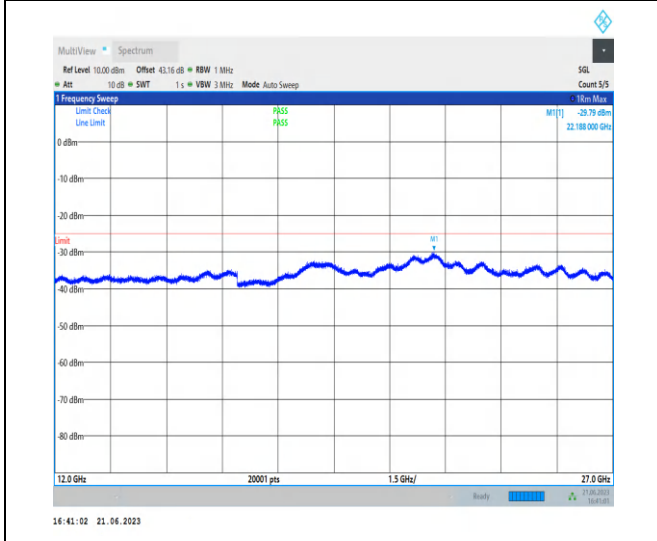
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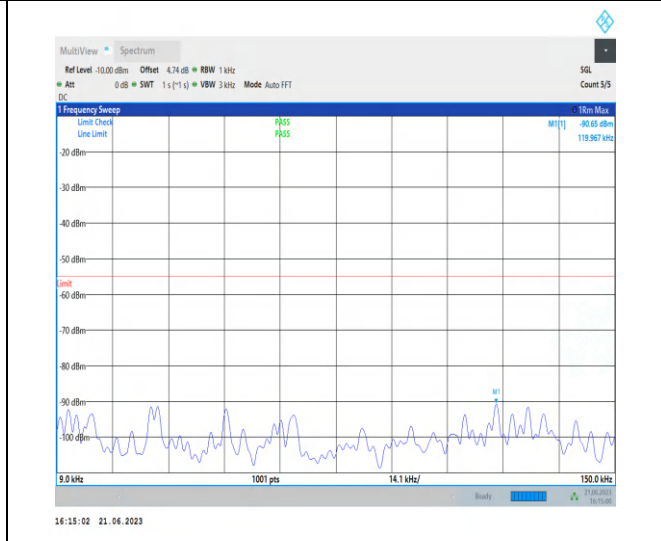
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 _Left-1 @ 1-1000-3000-Ant0-2413.50--44.04--25-PAS
 S



1-N38-PC3-30-40-L-1-N/A-DFT-PI2BPSK-Inner_1RB
 _Left-1 @ 1-3000-12000-Ant0-6989.25--37.70--25-PA
 SS



1-N38-PC3-30-40-L-1-N/A-DFT-PI2BPSK-Inner_1RB
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 PASS

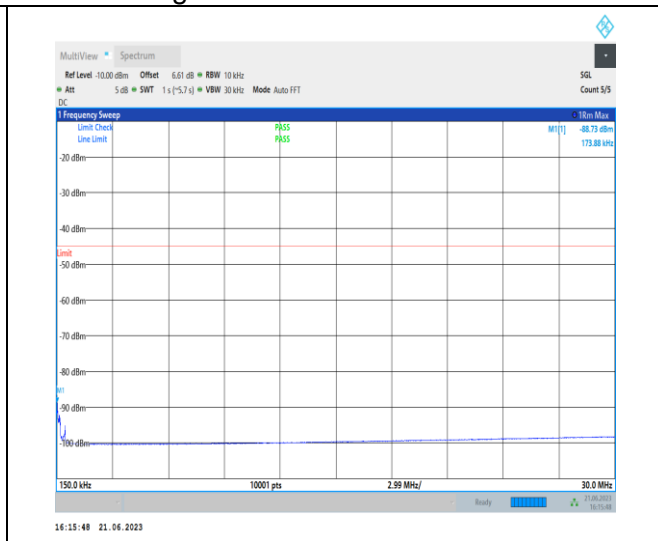


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 ft-1 @ 1-0.009-0.15-Ant0-0.12--90.65--55-PASS



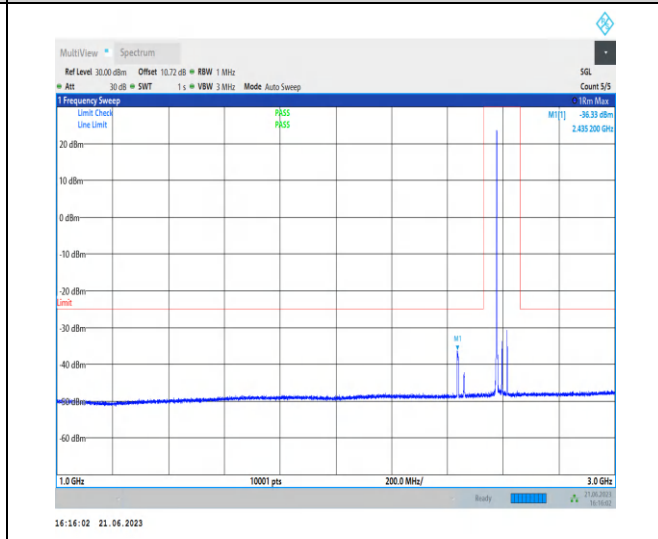
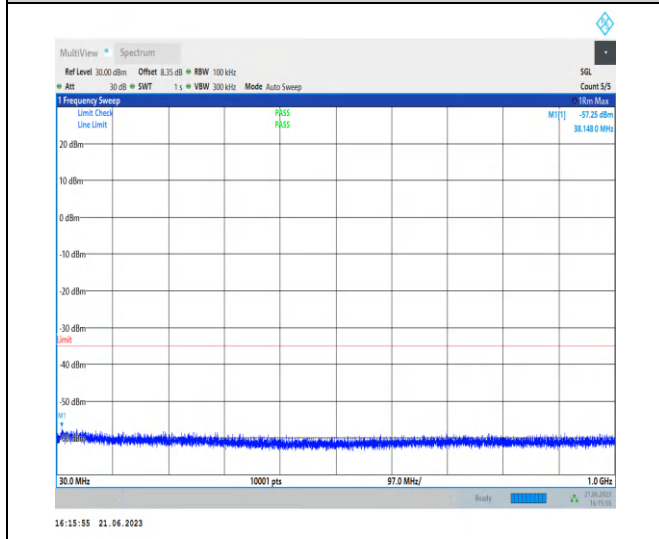
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1-N38-PC3-30-40-M-1-N/A-DFT-PI2BPSK-Inner_1R
 B_Left-1@1-0.009-0.15-Ant0-0.13--76.68--55-PASS

1-N38-PC3-30-40-M-1-N/A-DFT-PI2BPSK-Inner_1R
 B_Left-1@1-0.15-30-Ant0-27.61--88.73--45-PASS



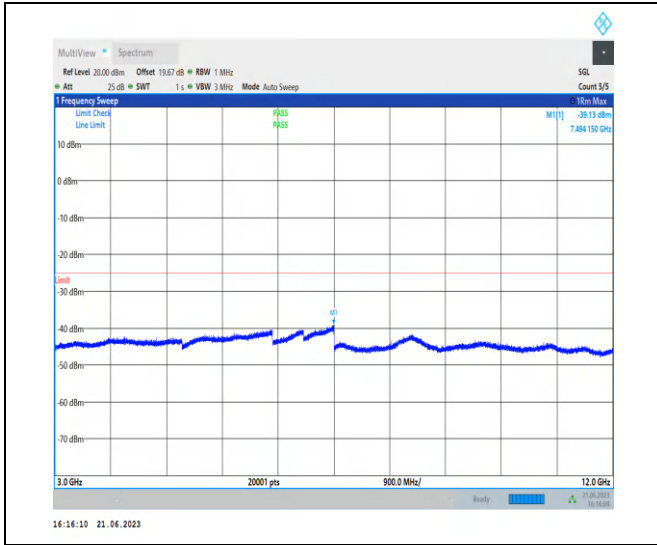
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1-N38-PC3-30-40-M-1-N/A-DFT-PI2BPSK-Inner_1R
 B_Left-1@1-1000-3000-Ant0-2801.00--36.33--25-PASS

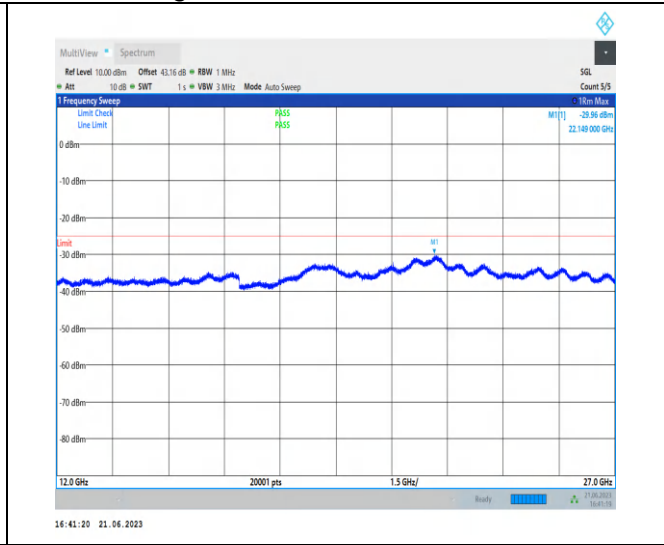


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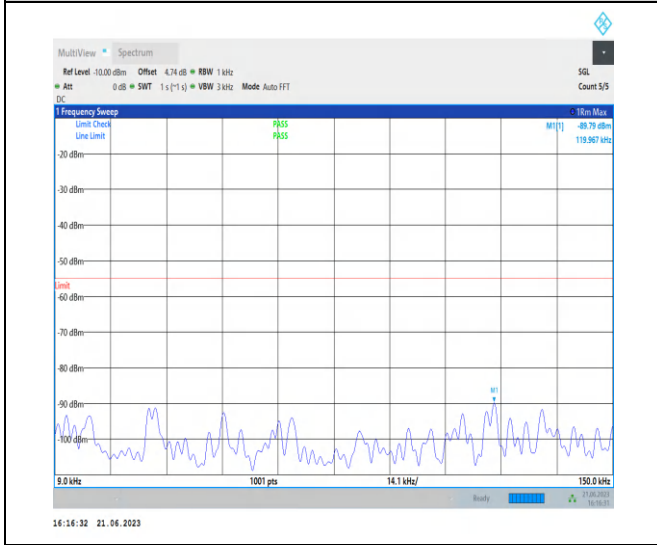
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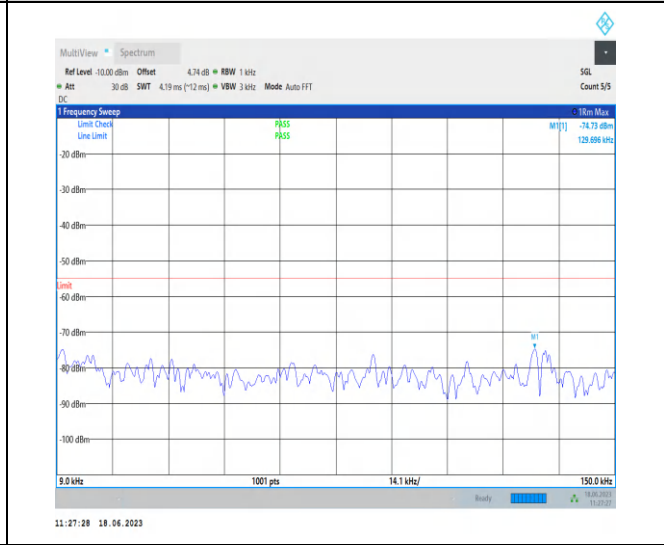
1-N38-PC3-30-40-M-1-N/A-DFT-PI2BPSK-Inner_1R
 B_Left-1@1-3000-12000-Ant0-5227.95--39.13--25-P
 ASS



1-N38-PC3-30-40-M-1-N/A-DFT-PI2BPSK-Inner_1R
 B_Left-1@1-12000-27000-Ant0-22099.50--29.96--25
 -PASS



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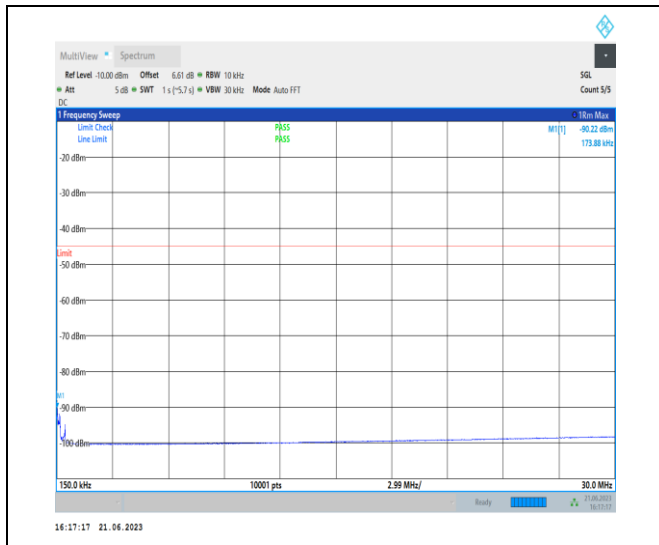


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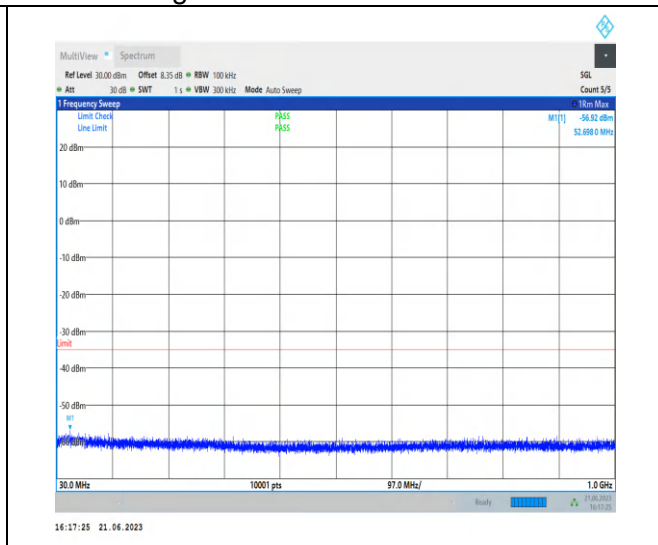


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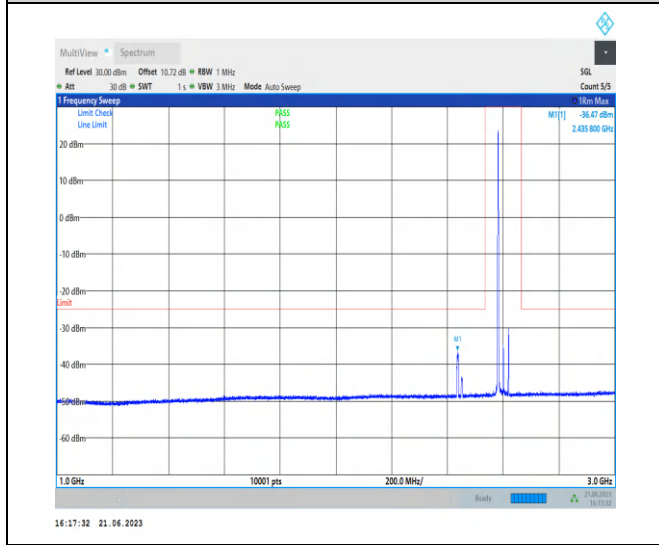
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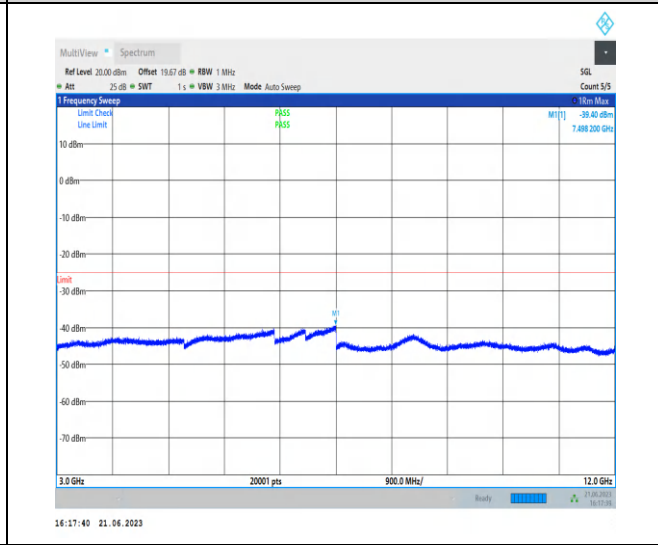
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 B_Left-1@1-0.15-30-Ant0-18.84--90.22--45-PASS



1-N38-PC3-30-40-H-1-N/A-DFT-PI2BPSK-Inner_1R
 B_Left-1@1-30-1000-Ant0-137.67--56.92--35-PASS



1-N38-PC3-30-40-H-1-N/A-DFT-PI2BPSK-Inner_1R
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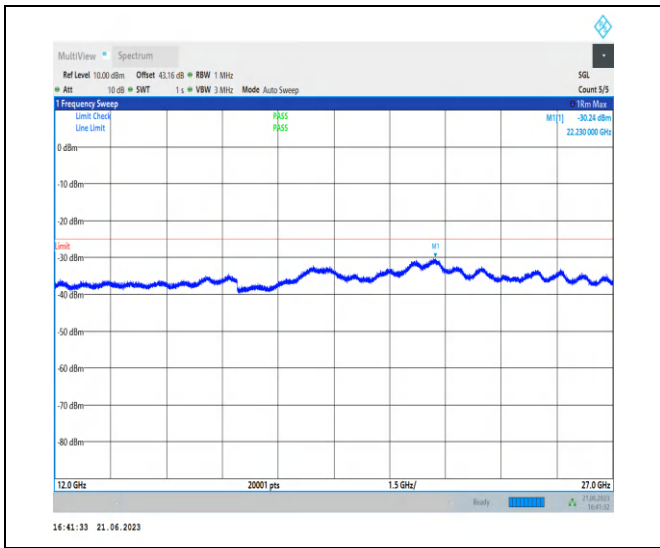


1-N38-PC3-30-40-H-1-N/A-DFT-PI2BPSK-Inner_1R
 B_Left-1@1-3000-12000-Ant0-7437.45--39.40--25-PASS



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1-N38-PC3-30-40-H-1-N/A-DFT-PI2BPSK-Inner_1R
 B_Left-1@1-12000-27000-Ant0-21617.50--30.24--25
 -PASS



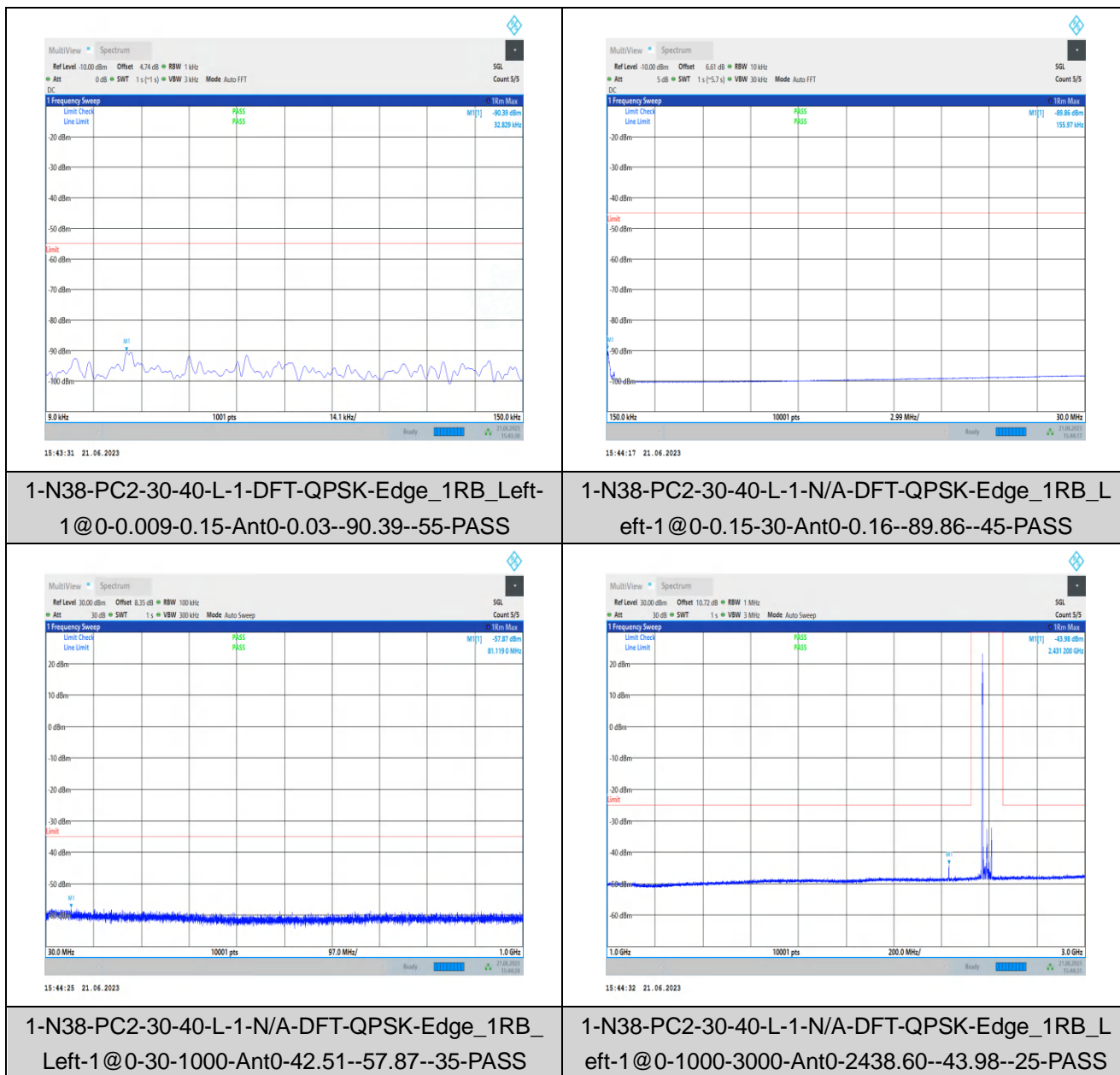
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Conducted Spurious Emission for MIMO

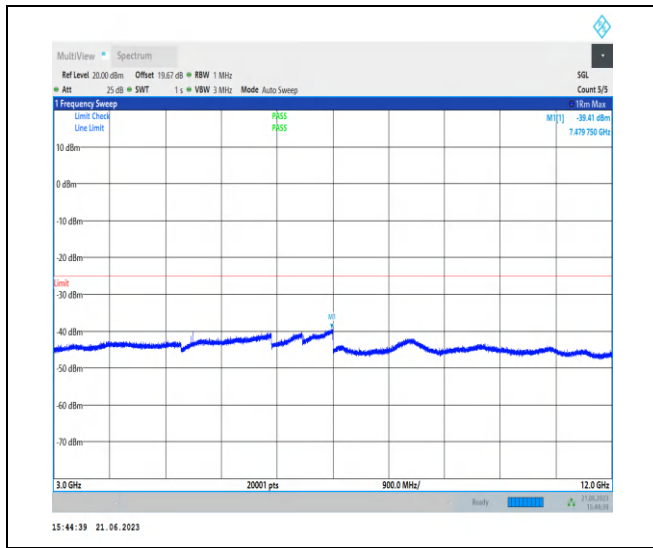
Test Graphs



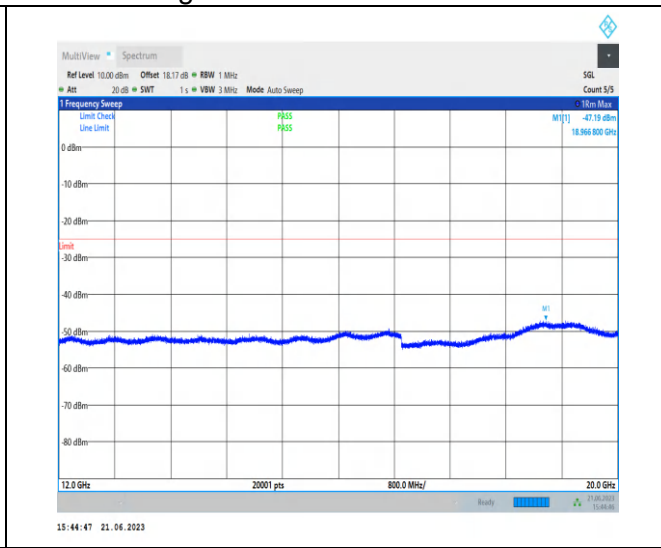
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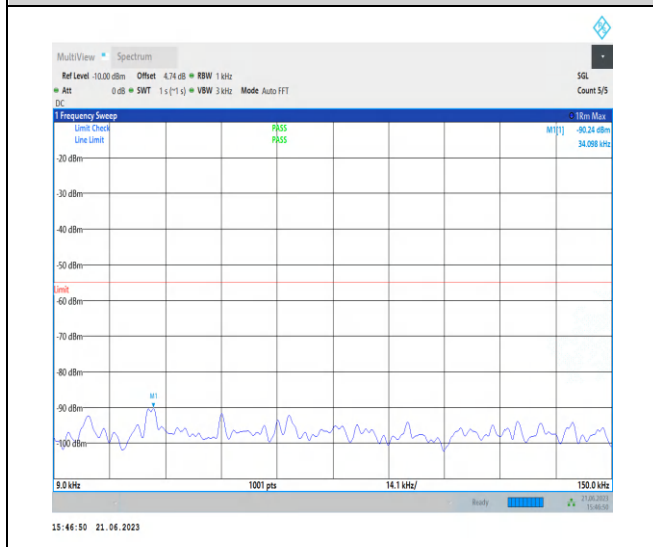
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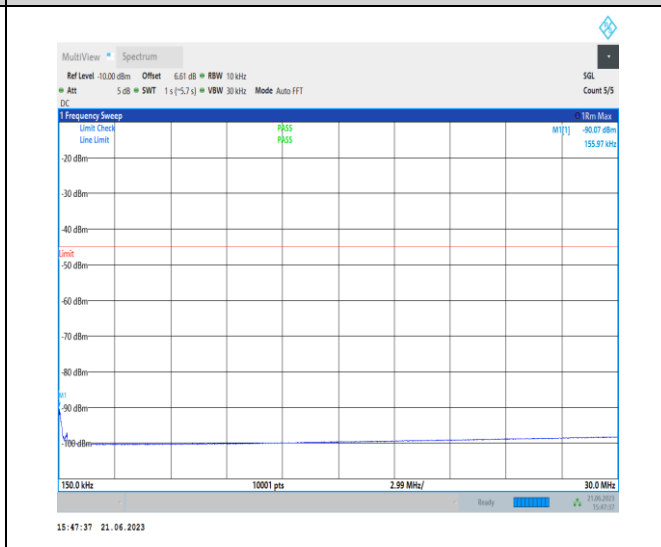
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 SS



1-N38-PC2-30-40-L-1-N/A-DFT-QPSK-Edge_1RB_Left-1@0-12000-20000-Ant0-18964.00--47.19--25-PA
 SS



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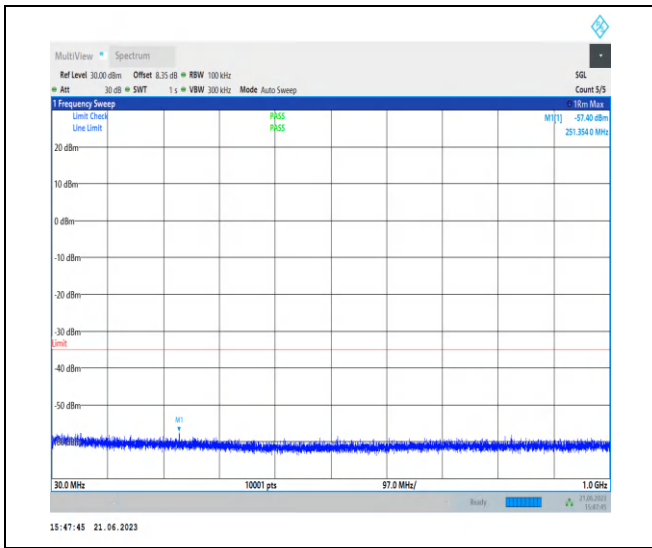


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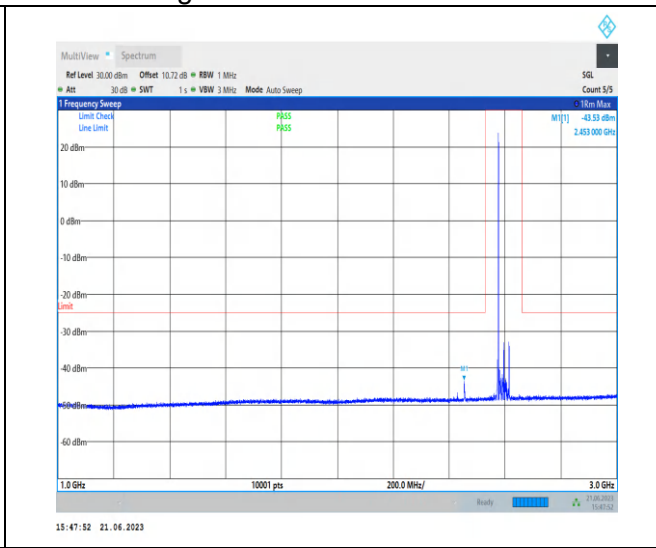


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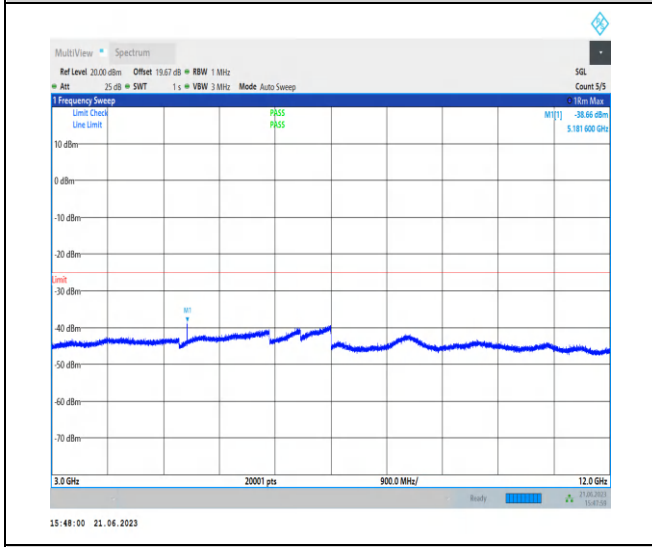
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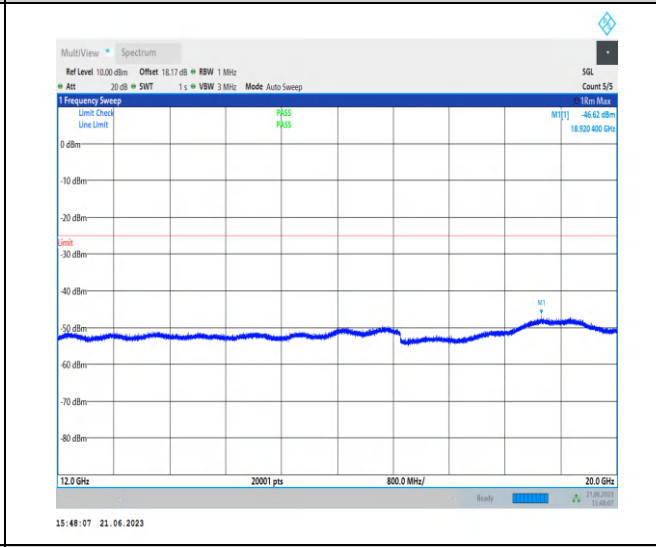
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 SS

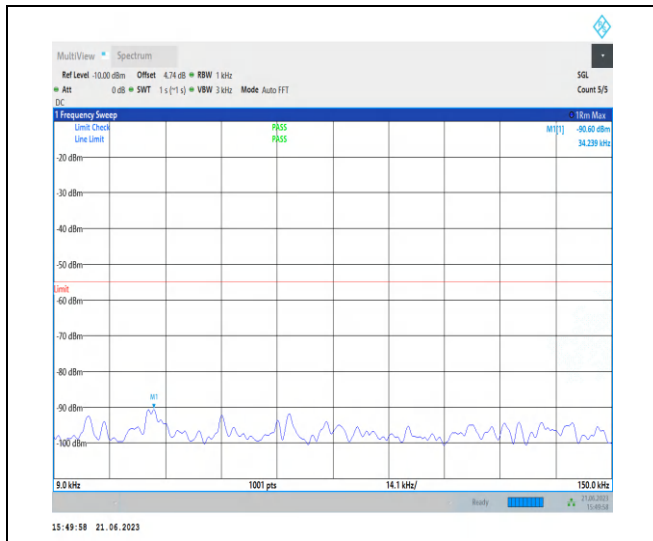


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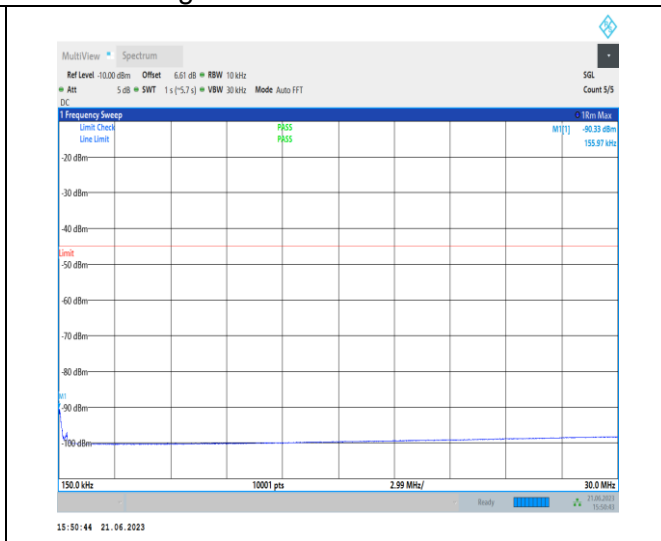


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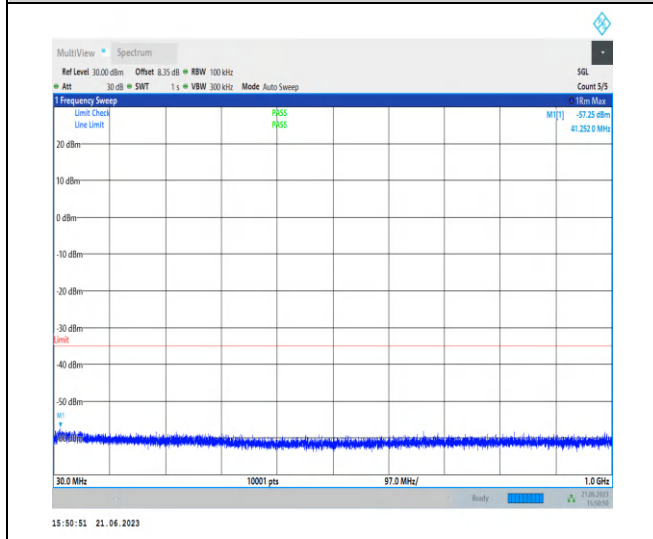
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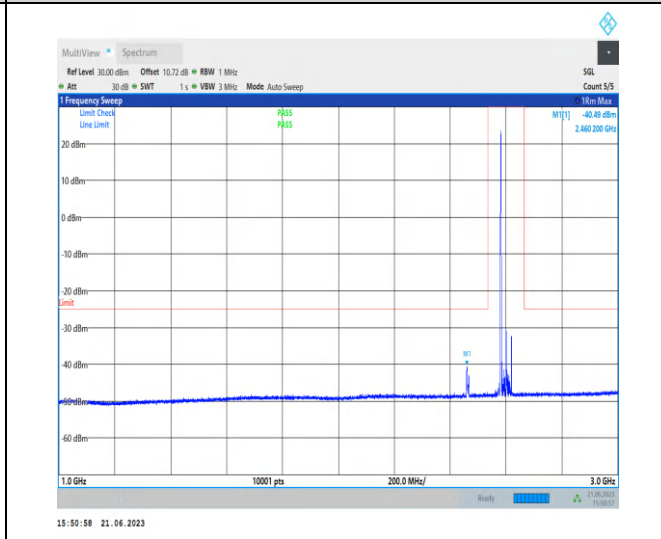
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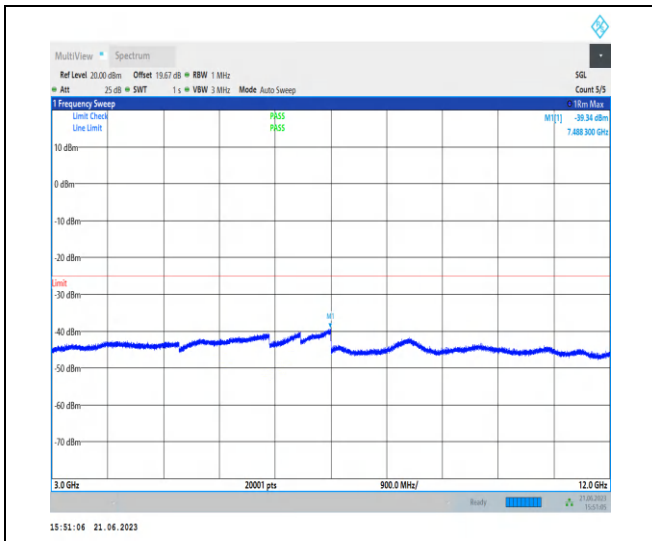
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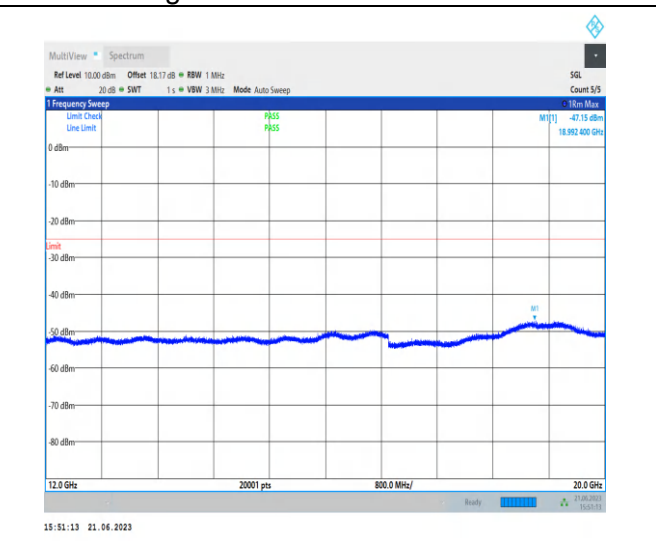
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1-N38-PC2-30-40-H-1-N/A-DFT-QPSK-Edge_1RB_Left-1@0-3000-12000-Ant0-7488.30--39.34--25-PA
 SS



1-N38-PC2-30-40-H-1-N/A-DFT-QPSK-Edge_1RB_Left-1@0-12000-20000-Ant0-18992.40--47.15--25-PA
 SS



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Field Strength of Spurious Radiation(Worse)

Test Band = SA Band38_ TM1_40MHz
 Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4246	43.07	-45.66	29.69	-68.16	-25.00	43.16	155	163	Horizontal
2	5225	42.65	-45.23	31.94	-65.90	-25.00	40.90	258	163	Horizontal
3	6687.5	42.25	-43.88	34.64	-62.25	-25.00	37.25	174	181	Horizontal
4	8335	39.86	-41.81	36.63	-60.58	-25.00	35.58	159	54	Horizontal
5	10093	36.45	-39.13	38.25	-59.69	-25.00	34.69	163	289	Horizontal
6	13318	33.01	-36.78	39.67	-59.36	-25.00	34.36	251	2	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4949	43.79	-45.58	31.29	-65.77	-25.00	40.77	147	359	Vertical
2	6327	42.00	-44.50	33.75	-64.02	-25.00	39.02	154	324	Vertical
3	7650.5	40.86	-43.03	36.66	-60.77	-25.00	35.77	156	353	Vertical
4	8346.5	40.74	-41.75	36.63	-59.64	-25.00	34.64	261	341	Vertical
5	10665.5	35.33	-38.08	38.53	-59.48	-25.00	34.48	185	36	Vertical
6	12308.5	33.97	-37.42	38.89	-59.82	-25.00	34.82	196	341	Vertical



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Test Band = SA Band38_ TM1_40MHz
 Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4912	44.32	-45.54	31.21	-65.28	-25.00	40.28	148	288	Horizontal
2	6079	42.71	-44.53	32.95	-64.13	-25.00	39.13	175	270	Horizontal
3	7660.5	40.96	-43.04	36.66	-60.68	-25.00	35.68	136	342	Horizontal
4	8701.5	39.91	-41.68	36.45	-60.58	-25.00	35.58	256	108	Horizontal
5	10000.5	36.79	-39.24	38.20	-59.51	-25.00	34.51	188	18	Horizontal
6	11800.5	33.40	-36.94	38.78	-60.02	-25.00	35.02	196	108	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4881.5	43.60	-45.53	31.14	-66.05	-25.00	41.05	211	359	Vertical
2	5653.5	42.78	-44.95	32.63	-64.80	-25.00	39.80	154	197	Vertical
3	6551.5	42.03	-44.48	34.39	-63.31	-25.00	38.31	175	180	Vertical
4	6804.5	42.28	-44.17	34.85	-62.30	-25.00	37.30	186	142	Vertical
5	7830.5	40.67	-42.47	36.73	-60.32	-25.00	35.32	163	251	Vertical
6	10368	36.22	-39.04	38.38	-59.69	-25.00	34.69	251	216	Vertical



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Test Band = SA Band38_ TM1_40MHz
 Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4603	43.52	-45.67	30.53	-66.88	-25.00	41.88	158	53	Horizontal
2	5873	42.49	-44.91	32.67	-65.01	-25.00	40.01	166	288	Horizontal
3	6924.5	42.16	-43.97	35.06	-62.00	-25.00	37.00	231	324	Horizontal
4	8341	40.21	-41.78	36.63	-60.20	-25.00	35.20	165	0	Horizontal
5	9650.5	36.98	-39.55	37.54	-60.30	-25.00	35.30	148	356	Horizontal
6	11280	34.60	-37.41	38.73	-59.35	-25.00	34.35	179	270	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4417.5	43.69	-45.80	30.10	-67.27	-25.00	42.27	158	341	Vertical
2	5499	42.70	-45.24	32.60	-65.20	-25.00	40.20	174	232	Vertical
3	6630.5	41.73	-44.19	34.53	-63.18	-25.00	38.18	186	51	Vertical
4	8041	39.97	-41.94	36.78	-60.45	-25.00	35.45	251	213	Vertical
5	9418.5	37.81	-39.90	37.10	-60.26	-25.00	35.26	145	323	Vertical
6	12859	33.96	-37.00	39.06	-59.24	-25.00	34.24	193	142	Vertical



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Test Band = SA Band38 ULMIMO_ TM1_40MHz
 Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4469	43.41	-45.74	30.23	-67.37	-25.00	42.37	184	234	Horizontal
2	5252.5	42.45	-45.18	32.01	-65.98	-25.00	40.98	157	34	Horizontal
3	5874	42.15	-44.91	32.67	-65.35	-25.00	40.35	169	252	Horizontal
4	6480	42.57	-44.57	34.24	-63.02	-25.00	38.02	159	270	Horizontal
5	7437	41.60	-43.31	36.42	-60.55	-25.00	35.55	182	124	Horizontal
6	8688	39.79	-41.65	36.46	-60.66	-25.00	35.66	133	52	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4463.5	43.89	-45.75	30.21	-66.91	-25.00	41.91	155	255	Vertical
2	5436	42.68	-45.28	32.45	-65.41	-25.00	40.41	185	128	Vertical
3	6325	42.51	-44.51	33.74	-63.52	-25.00	38.52	142	255	Vertical
4	6986.5	41.74	-43.62	35.18	-61.97	-25.00	36.97	136	36	Vertical
5	8406.5	40.50	-41.46	36.60	-59.62	-25.00	34.62	256	128	Vertical
6	10892.5	34.53	-37.87	38.65	-59.95	-25.00	34.95	221	4	Vertical



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Test Band = SA Band38 ULMIMO_ TM1_40MHz
 Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4449	43.91	-45.77	30.18	-66.94	-25.00	41.94	168	108	Horizontal
2	5532	42.58	-45.19	32.61	-65.26	-25.00	40.26	159	18	Horizontal
3	6469	42.23	-44.55	34.20	-63.38	-25.00	38.38	155	270	Horizontal
4	7815	40.87	-42.39	36.73	-60.05	-25.00	35.05	175	357	Horizontal
5	9155	37.97	-40.30	36.59	-60.99	-25.00	35.99	125	163	Horizontal
6	11200.5	34.66	-37.39	38.72	-59.27	-25.00	34.27	188	216	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4945	43.76	-45.58	31.28	-65.80	-25.00	40.80	169	180	Vertical
2	5972.5	42.54	-44.87	32.69	-64.89	-25.00	39.89	155	36	Vertical
3	6991.5	41.98	-43.60	35.18	-61.69	-25.00	36.69	142	127	Vertical
4	7712	41.10	-43.02	36.68	-60.50	-25.00	35.50	184	343	Vertical
5	9097	39.21	-40.37	36.48	-59.94	-25.00	34.94	175	36	Vertical
6	10659	35.10	-38.12	38.53	-59.75	-25.00	34.75	166	55	Vertical



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Test Band = SA Band38 ULMIMO_ TM1_40MHz
 Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4728	42.70	-45.58	30.80	-67.34	-25.00	42.34	185	344	Horizontal
2	5937.5	42.65	-44.92	32.69	-64.84	-25.00	39.84	166	254	Horizontal
3	7207	40.74	-43.44	35.78	-62.18	-25.00	37.18	235	91	Horizontal
4	8404	40.26	-41.46	36.60	-59.86	-25.00	34.86	154	326	Horizontal
5	9365	37.86	-39.97	36.99	-60.37	-25.00	35.37	175	0	Horizontal
6	10681.5	34.89	-37.99	38.54	-59.82	-25.00	34.82	166	307	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4715	43.15	-45.59	30.77	-66.93	-25.00	41.93	100	360	Vertical
2	5429.5	43.18	-45.28	32.43	-64.93	-25.00	39.93	100	178	Vertical
3	6078	41.94	-44.53	32.95	-64.90	-25.00	39.90	100	214	Vertical
4	6806.5	42.86	-44.17	34.85	-61.71	-25.00	36.71	100	360	Vertical
5	8403	40.31	-41.46	36.60	-59.81	-25.00	34.81	100	269	Vertical
6	11065	34.44	-37.92	38.71	-60.04	-25.00	35.04	100	252	Vertical



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Test Band = NSA 2A-N38A_ TM1
 Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3477.5	45.74	-46.26	28.59	-67.20	-25.00	42.20	112	127	Horizontal
2	5144.1800	41.74	-45.33	31.75	-67.10	-25.00	42.10	178	270	Horizontal
3	7716.2700	39.67	-42.99	36.69	-61.89	-25.00	36.89	154	73	Horizontal
4	10288.3600	36.18	-39.14	38.34	-59.87	-25.00	34.87	236	2	Horizontal
5	12860.4500	34.35	-37.00	39.06	-58.85	-25.00	33.85	121	272	Horizontal
6	15432.5400	33.05	-34.11	40.39	-55.93	-25.00	30.93	227	0	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3267	48.03	-46.22	28.46	-64.99	-25.00	39.99	203	17	Vertical
2	5144.1800	41.51	-45.33	31.75	-67.33	-25.00	42.33	154	124	Vertical
3	7716.2700	40.35	-42.99	36.69	-61.21	-25.00	36.21	187	127	Vertical
4	10288.3600	36.02	-39.14	38.34	-60.03	-25.00	35.03	121	108	Vertical
5	12860.4500	34.29	-37.00	39.06	-58.91	-25.00	33.91	233	360	Vertical
6	15432.5400	33.37	-34.11	40.39	-55.61	-25.00	30.61	159	343	Vertical



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Test Band = NSA 2A-N38A_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3586	45.25	-46.15	28.69	-67.47	-25.00	42.47	128	163	Horizontal
2	5154.1800	41.34	-45.32	31.77	-67.47	-25.00	42.47	163	179	Horizontal
3	7731.2700	40.86	-42.86	36.69	-60.57	-25.00	35.57	245	1	Horizontal
4	10308.3600	35.23	-39.08	38.35	-60.76	-25.00	35.76	122	145	Horizontal
5	12885.4500	34.28	-37.07	39.07	-58.98	-25.00	33.98	187	289	Horizontal
6	15462.5400	32.93	-34.67	40.33	-56.68	-25.00	31.68	291	254	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3489	45.52	-46.26	28.59	-67.41	-25.00	42.41	213	109	Vertical
2	5154.1800	42.15	-45.32	31.77	-66.66	-25.00	41.66	187	342	Vertical
3	7731.2700	40.30	-42.86	36.69	-61.13	-25.00	36.13	169	4	Vertical
4	10308.3600	35.58	-39.08	38.35	-60.41	-25.00	35.41	254	109	Vertical
5	12885.4500	34.10	-37.07	39.07	-59.16	-25.00	34.16	121	218	Vertical
6	15462.5400	33.21	-34.67	40.33	-56.40	-25.00	31.40	269	360	Vertical



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Test Band = NSA 2A-N38A_ TM1
 Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3487	45.23	-46.26	28.59	-67.70	-25.00	42.70	236	340	Horizontal
2	5164.1800	42.42	-45.31	31.79	-66.36	-25.00	41.36	144	270	Horizontal
3	7746.2700	41.09	-42.74	36.70	-60.21	-25.00	35.21	158	19	Horizontal
4	10328.3600	36.54	-39.07	38.36	-59.42	-25.00	34.42	269	162	Horizontal
5	12910.4500	34.37	-37.13	39.07	-58.95	-25.00	33.95	142	215	Horizontal
6	15492.5400	32.72	-35.24	40.26	-57.51	-25.00	32.51	148	126	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3165	45.38	-45.92	28.40	-67.40	-25.00	42.40	256	54	Vertical
2	5164.1800	41.74	-45.31	31.79	-67.04	-25.00	42.04	132	179	Vertical
3	7746.2700	41.23	-42.74	36.70	-60.07	-25.00	35.07	144	216	Vertical
4	10328.3600	36.27	-39.07	38.36	-59.69	-25.00	34.69	213	0	Vertical
5	12910.4500	35.03	-37.13	39.07	-58.29	-25.00	33.29	169	199	Vertical
6	15492.5400	32.42	-35.24	40.26	-57.81	-25.00	32.81	124	0	Vertical



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Test Band = NSA 66A-N38A_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3462.5	45.36	-46.27	28.58	-67.59	-25.00	42.59	144	18	Horizontal
2	5144.1800	41.35	-45.33	31.75	-67.49	-25.00	42.49	158	161	Horizontal
3	7716.2700	39.72	-42.99	36.69	-61.84	-25.00	36.84	169	35	Horizontal
4	10288.3600	35.79	-39.14	38.34	-60.26	-25.00	35.26	112	180	Horizontal
5	12860.4500	34.07	-37.00	39.06	-59.13	-25.00	34.13	234	198	Horizontal
6	15432.5400	33.29	-34.11	40.39	-55.69	-25.00	30.69	178	54	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3456	45.29	-46.27	28.57	-67.67	-25.00	42.67	223	3	Vertical
2	5144.1800	41.75	-45.33	31.75	-67.09	-25.00	42.09	145	180	Vertical
3	7716.2700	40.03	-42.99	36.69	-61.53	-25.00	36.53	169	72	Vertical
4	10288.3600	35.94	-39.14	38.34	-60.11	-25.00	35.11	231	234	Vertical
5	12860.4500	33.95	-37.00	39.06	-59.25	-25.00	34.25	144	109	Vertical
6	15432.5400	32.76	-34.11	40.39	-56.22	-25.00	31.22	121	37	Vertical



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Test Band = NSA 66A-N38A_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3458	46.02	-46.27	28.57	-66.93	-25.00	41.93	102	0	Horizontal
2	5154.1800	41.67	-45.32	31.77	-67.14	-25.00	42.14	145	180	Horizontal
3	7731.2700	40.86	-42.86	36.69	-60.57	-25.00	35.57	132	90	Horizontal
4	10308.3600	35.43	-39.08	38.35	-60.56	-25.00	35.56	155	102	Horizontal
5	12885.4500	34.17	-37.07	39.07	-59.09	-25.00	34.09	198	249	Horizontal
6	15462.5400	33.15	-34.67	40.33	-56.46	-25.00	31.46	213	126	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3503	45.61	-46.26	28.60	-67.30	-25.00	42.30	254	91	Vertical
2	5154.1800	41.84	-45.32	31.77	-66.97	-25.00	41.97	169	18	Vertical
3	7731.2700	40.22	-42.86	36.69	-61.21	-25.00	36.21	132	8	Vertical
4	10308.3600	35.40	-39.08	38.35	-60.59	-25.00	35.59	287	54	Vertical
5	12885.4500	33.90	-37.07	39.07	-59.36	-25.00	34.36	140	197	Vertical
6	15462.5400	33.14	-34.67	40.33	-56.47	-25.00	31.47	122	162	Vertical



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Test Band = NSA 66A-N38A_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3254.5	45.10	-46.13	28.45	-67.84	-25.00	42.84	210	1	Horizontal
2	5164.1800	41.97	-45.31	31.79	-66.81	-25.00	41.81	236	198	Horizontal
3	7746.2700	40.18	-42.74	36.70	-61.12	-25.00	36.12	142	306	Horizontal
4	10328.3600	35.46	-39.07	38.36	-60.50	-25.00	35.50	144	145	Horizontal
5	12910.4500	34.25	-37.13	39.07	-59.07	-25.00	34.07	211	126	Horizontal
6	15492.5400	32.40	-35.24	40.26	-57.83	-25.00	32.83	187	353	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3349.5	45.26	-46.37	28.51	-67.86	-25.00	42.86	152	356	Vertical
2	5164.1800	41.66	-45.31	31.79	-67.12	-25.00	42.12	187	251	Vertical
3	7746.2700	41.25	-42.74	36.70	-60.05	-25.00	35.05	269	352	Vertical
4	10328.3600	35.69	-39.07	38.36	-60.27	-25.00	35.27	133	163	Vertical
5	12910.4500	34.26	-37.13	39.07	-59.06	-25.00	34.06	254	358	Vertical
6	15492.5400	32.54	-35.24	40.26	-57.69	-25.00	32.69	121	35	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	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N38	30	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	-19.40	-0.01	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	-16.10	-0.01	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	-14.90	-0.01	PASS
N38	30	40	CP-QPSK	M	Outer_Full	VN	NT	-10.20	0.00	PASS
N38	30	40	CP-QPSK	M	Outer_Full	VL	NT	-11.80	0.00	PASS
N38	30	40	CP-QPSK	M	Outer_Full	VH	NT	-20.90	-0.01	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	-21.300000	-0.008208	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	-12.100000	-0.004663	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	-13.700000	-0.005279	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	0	-10.800000	-0.004162	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	10	-16.800000	-0.006474	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	20	-20.300000	-0.007823	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	30	7.300000	0.002813	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	40	-13.800000	-0.005318	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	50	-13.600000	-0.005241	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	-30	-7.100000	-0.002736	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	-20	-19.200000	-0.007399	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	-10	-16.000000	-0.006166	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	0	-9.500000	-0.003661	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	10	-7.200000	-0.002775	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	20	-13.500000	-0.005202	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	30	-8.500000	-0.003276	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	40	-12.900000	-0.004971	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	50	-14.100000	-0.005434	PASS

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