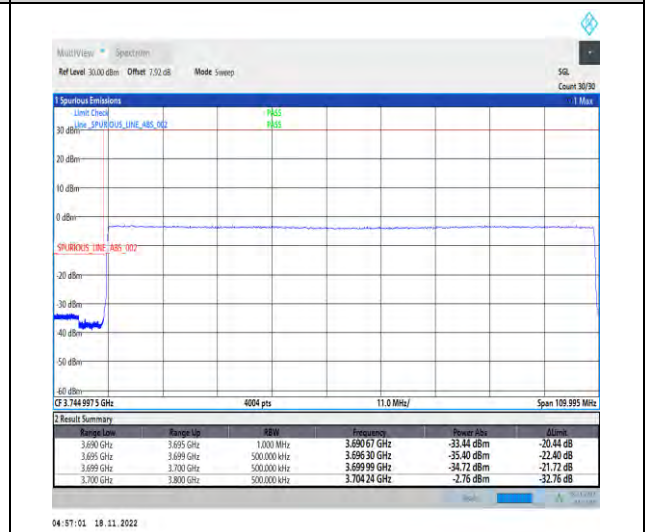
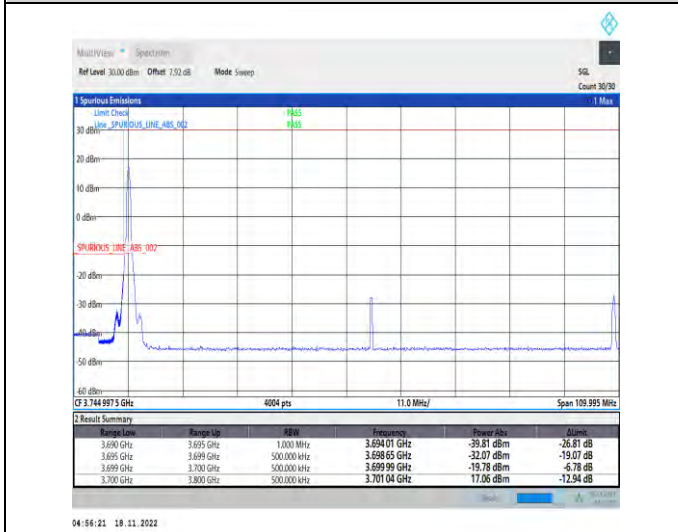


1-N77-3700-3980-PC2-30-100-L-1-DFT-PI2BPSK-Edge_1_RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-100-L-3-DFT-PI2BPSK-Outer_Full-270@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC2-30-100-L-4-CP-QPSK-Edge_1_RB_Left-1@0-Ant1-1--PASS-see graph

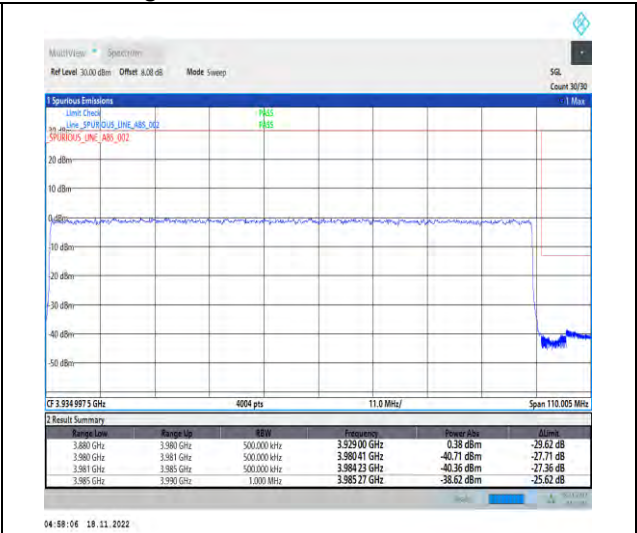
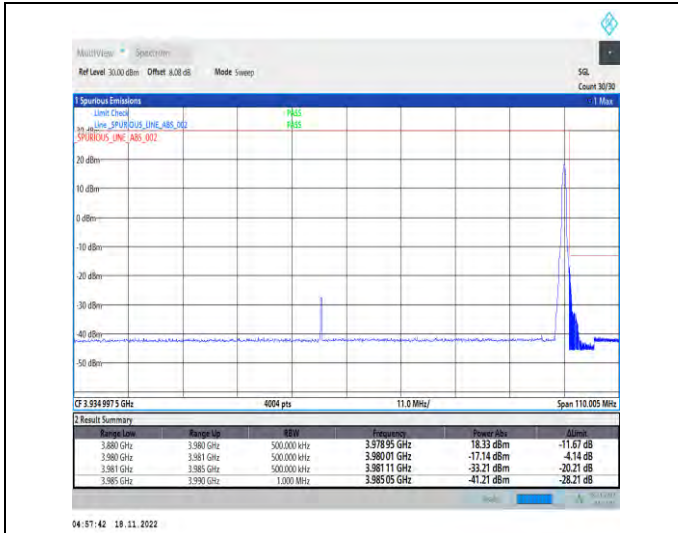
1-N77-3700-3980-PC2-30-100-L-6-CP-QPSK-Outer_Full-273@0-Ant1-1--PASS-see graph



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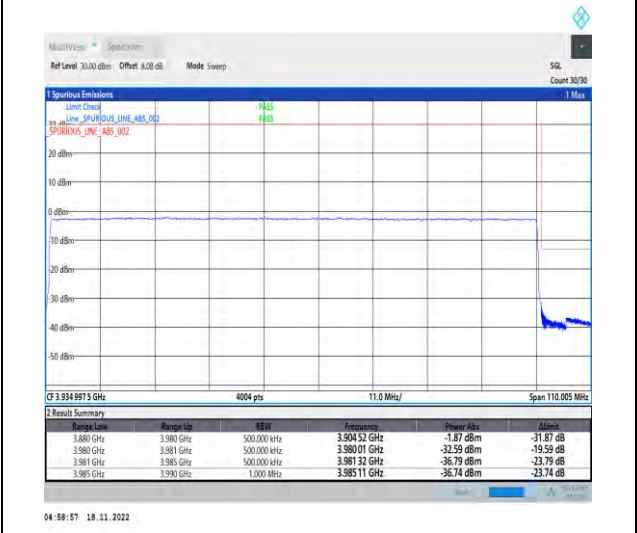
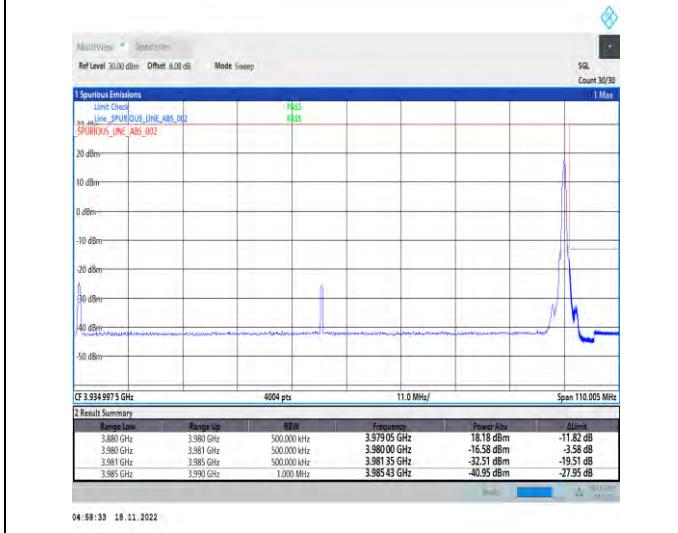
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1-N77-3700-3980-PC2-30-100-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@272-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-100-H-3-DFT-PI2BPSK-Outer_Full-270@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC2-30-100-H-5-CP-QPSK-Edge_1RB_Right-1@272-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-100-H-6-CP-QPSK-Outer_Full-273@0-Ant1-1--PASS-see graph



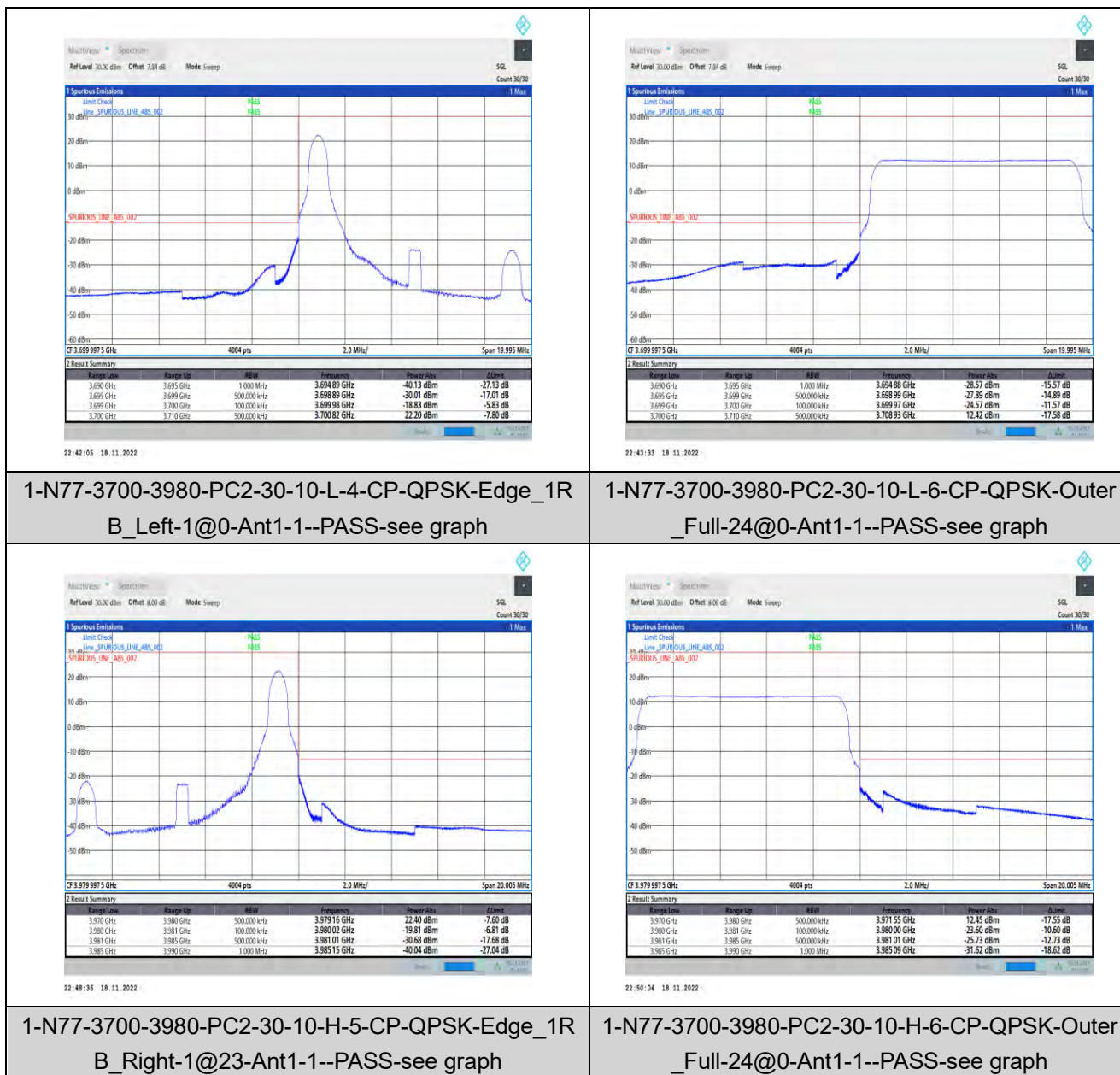
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Band Edge for MIMO

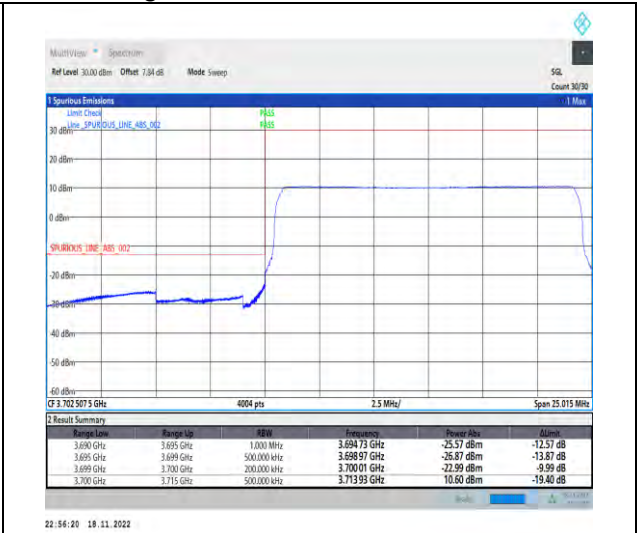
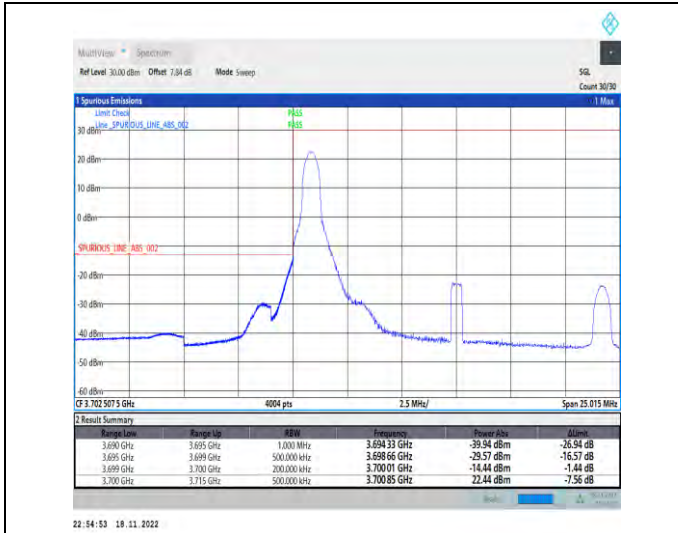
Test Graphs



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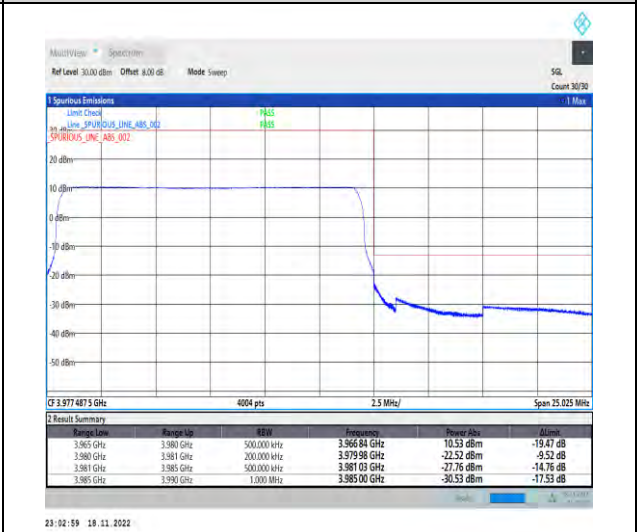
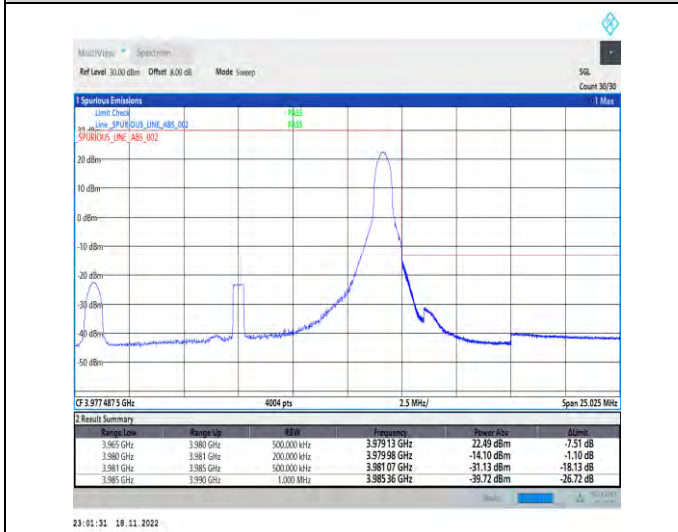
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1-N77-3700-3980-PC2-30-15-L-4-CP-QPSK-Edge_1R_B_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-15-L-6-CP-QPSK-Outer_Full-38@0-Ant1-1--PASS-see graph



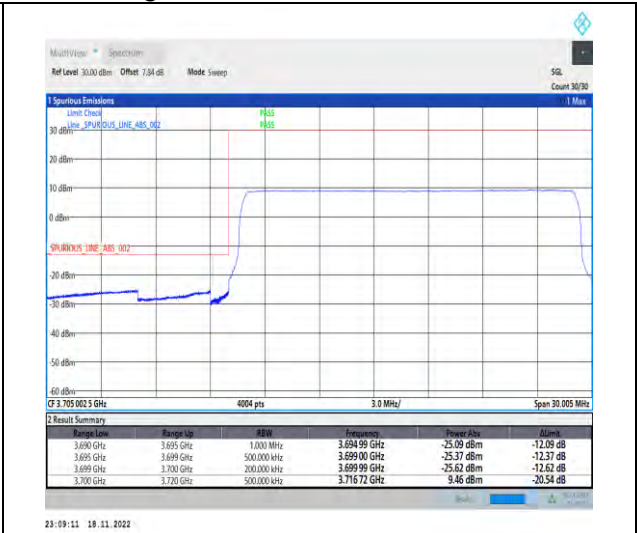
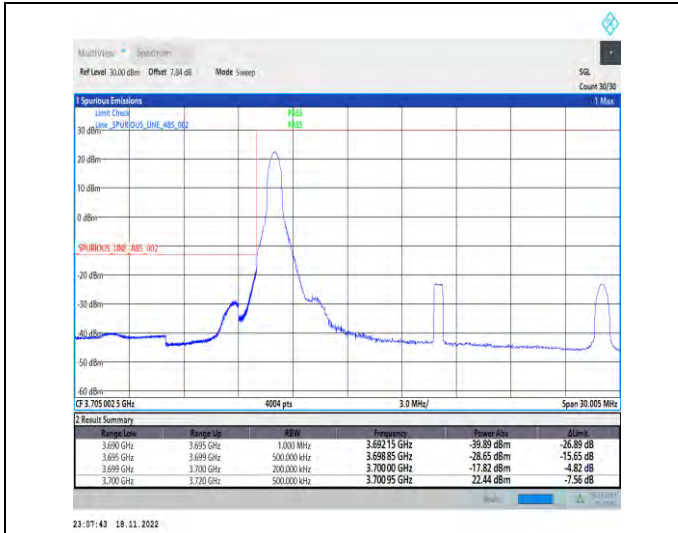
1-N77-3700-3980-PC2-30-15-H-5-CP-QPSK-Edge_1R_B_Right-1@37-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-15-H-6-CP-QPSK-Outer_Full-38@0-Ant1-1--PASS-see graph



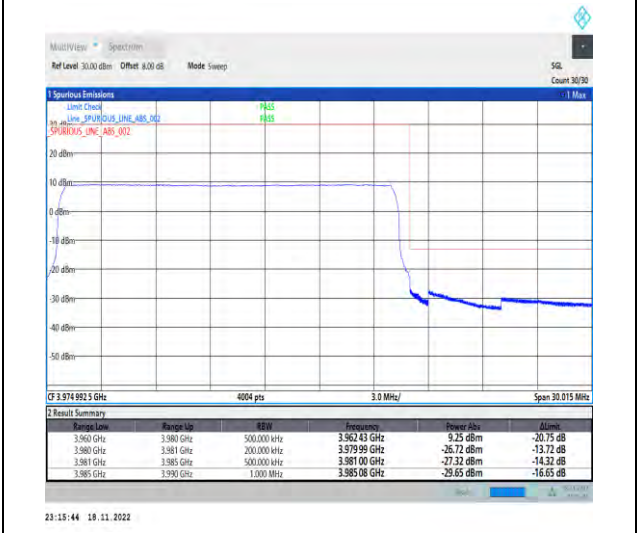
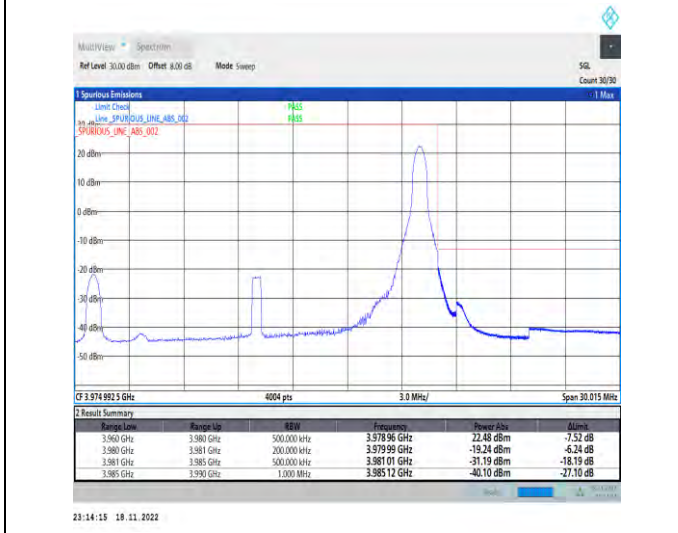
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1-N77-3700-3980-PC2-30-20-L-4-CP-QPSK-Edge_1R_B_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-20-L-6-CP-QPSK-Outer_Full-51@0-Ant1-1--PASS-see graph



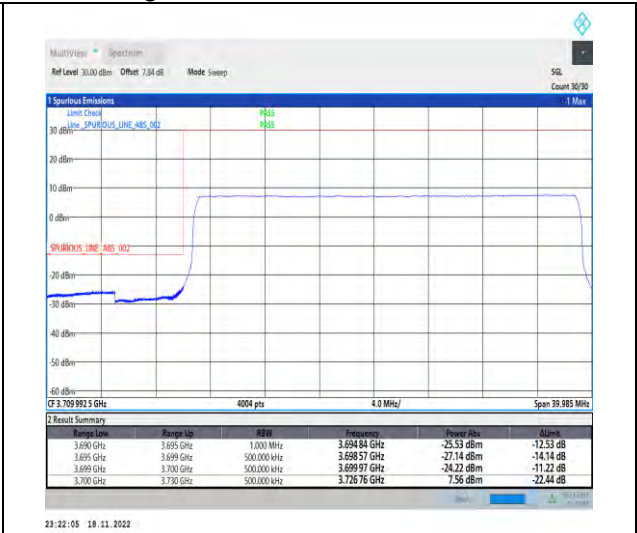
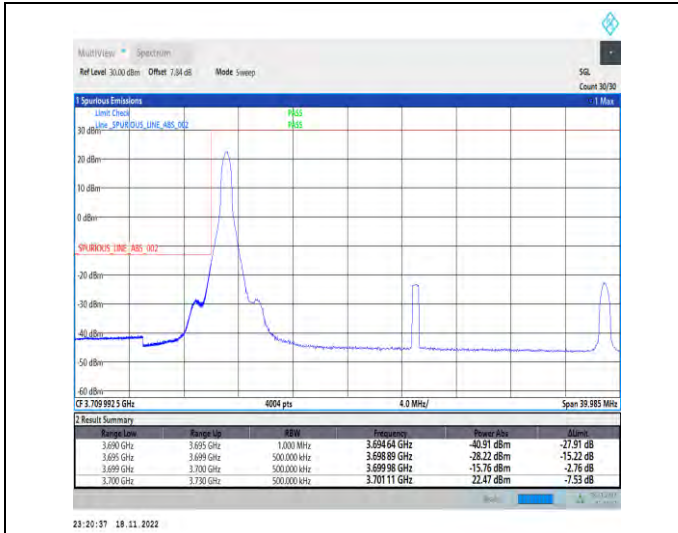
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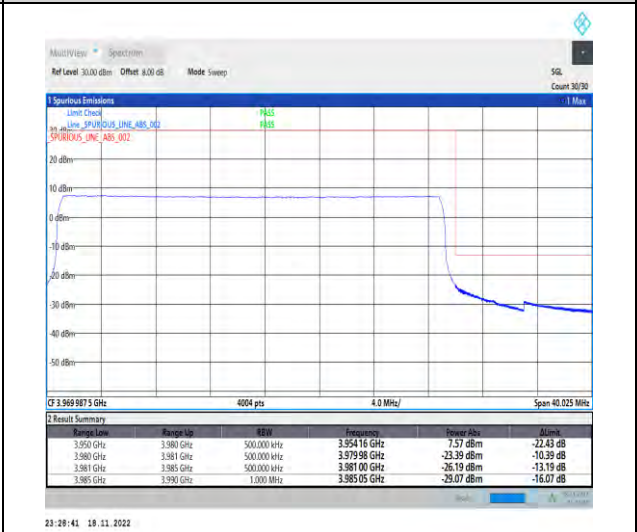
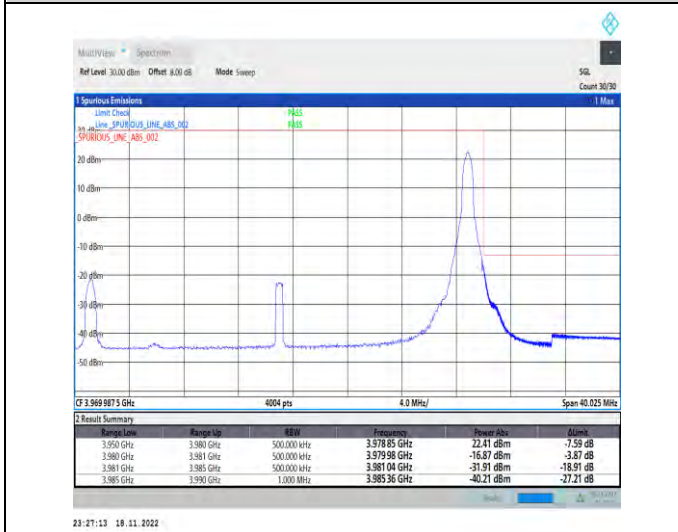
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1-N77-3700-3980-PC2-30-30-L-4-CP-QPSK-Edge_1R
B_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-30-L-6-CP-QPSK-Outer
_Full-78@0-Ant1-1--PASS-see graph



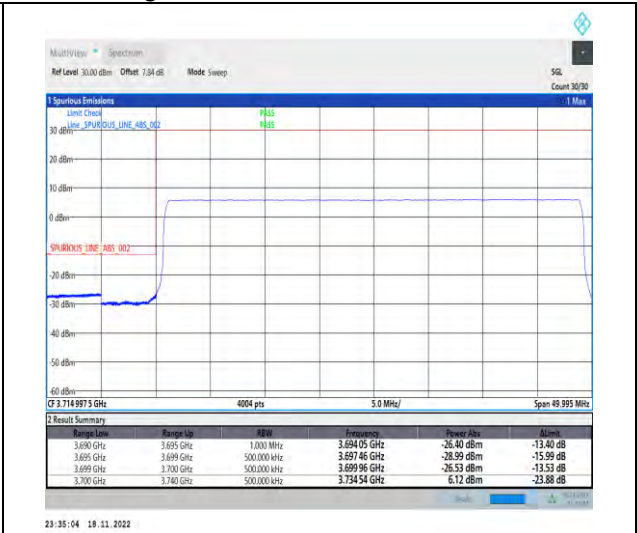
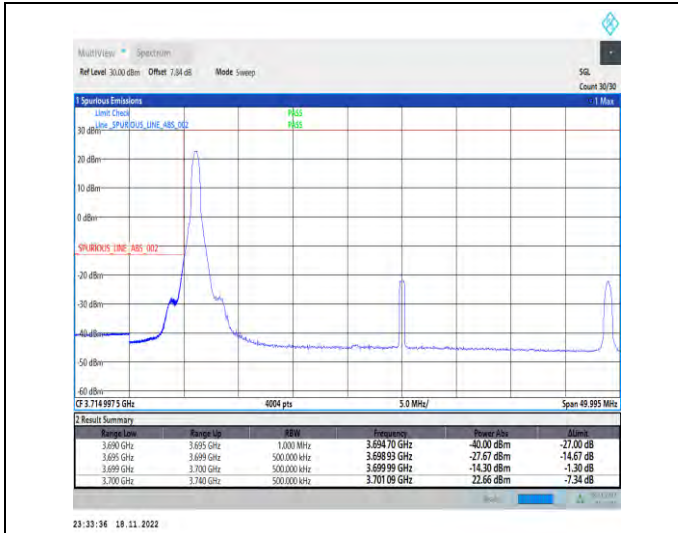
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B_Right-1@77-Ant1-1--PASS-see graph

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_Full-78@0-Ant1-1--PASS-see graph



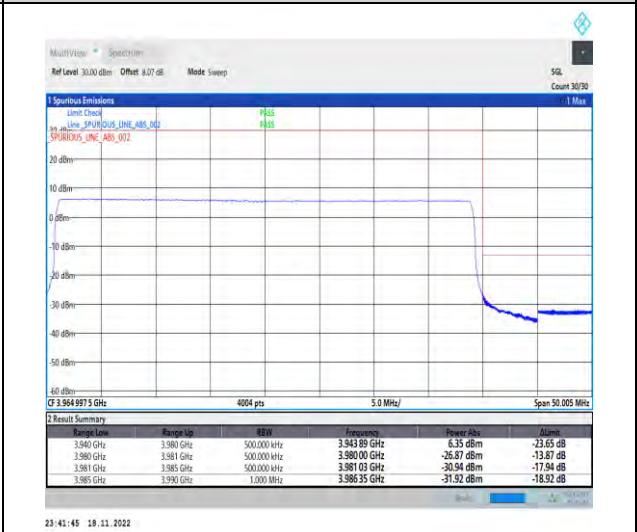
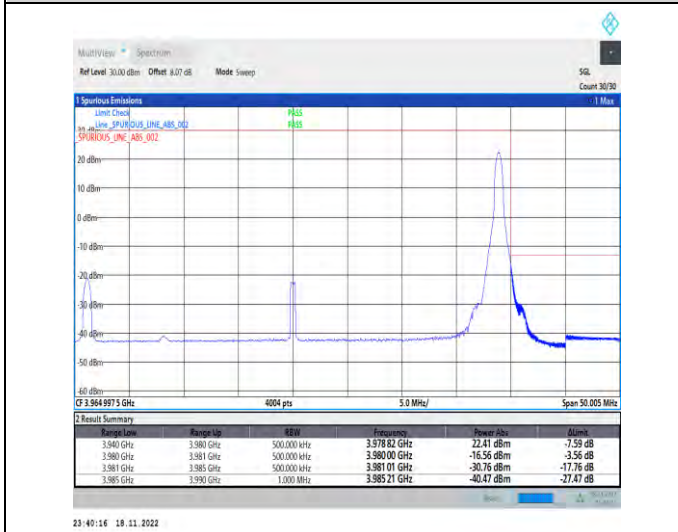
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1-N77-3700-3980-PC2-30-40-L-4-CP-QPSK-Edge_1R
B_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-40-L-6-CP-QPSK-Outer
_Full-106@0-Ant1-1--PASS-see graph



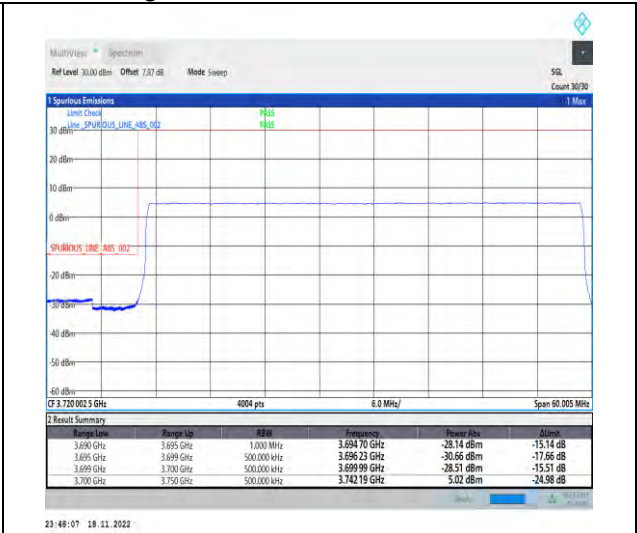
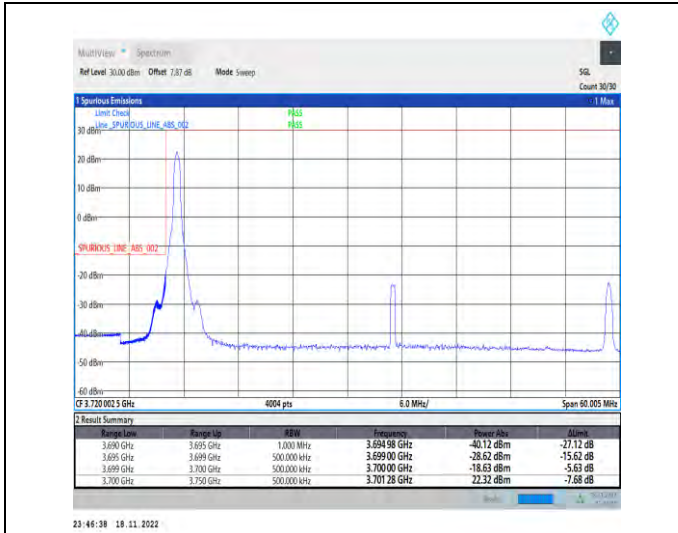
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B_Right-1@105-Ant1-1--PASS-see graph

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_Full-106@0-Ant1-1--PASS-see graph



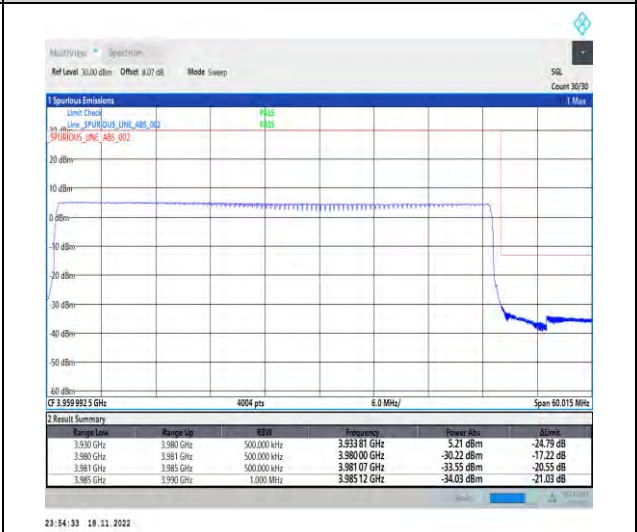
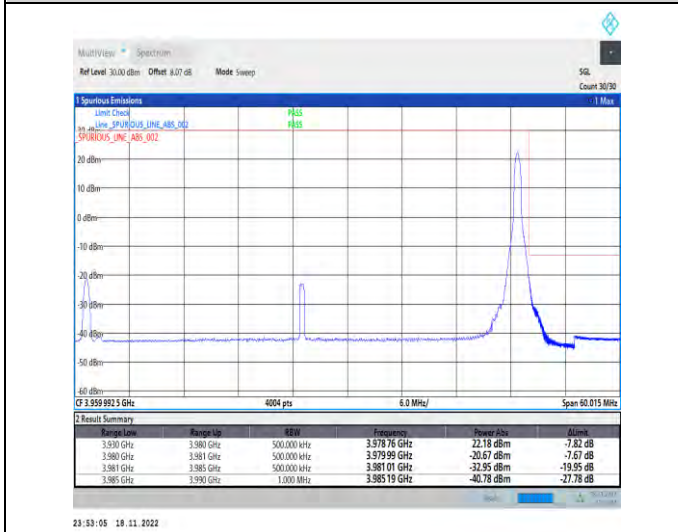
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1-N77-3700-3980-PC2-30-50-L-4-CP-QPSK-Edge_1R
B_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-50-L-6-CP-QPSK-Outer
_Full-133@0-Ant1-1--PASS-see graph



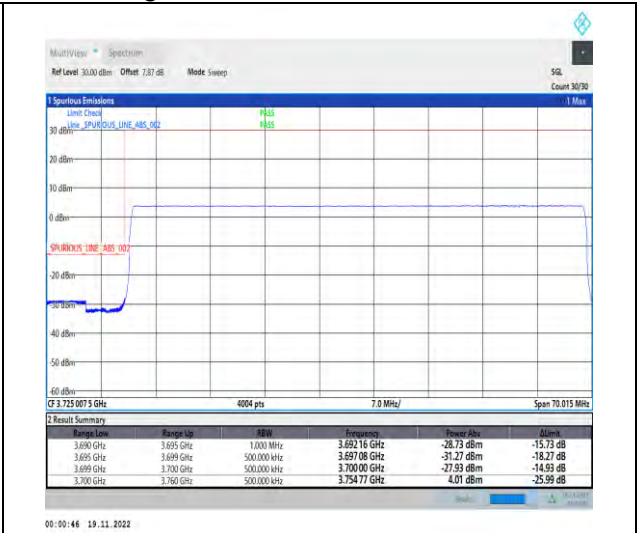
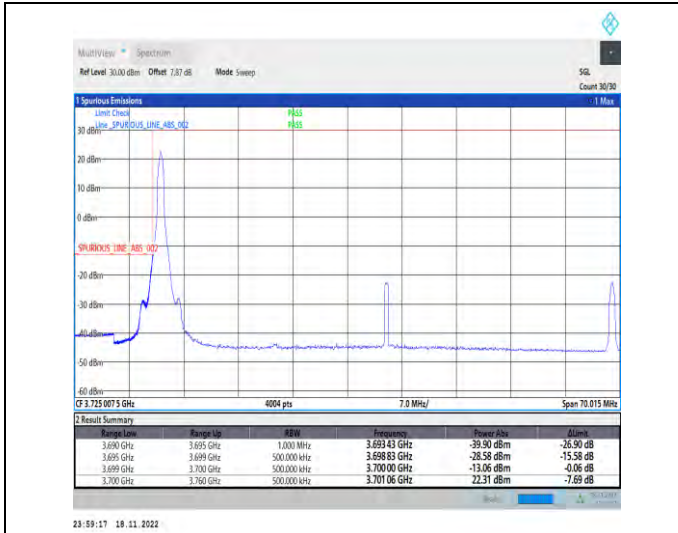
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B_Right-1@132-Ant1-1--PASS-see graph

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_Full-133@0-Ant1-1--PASS-see graph



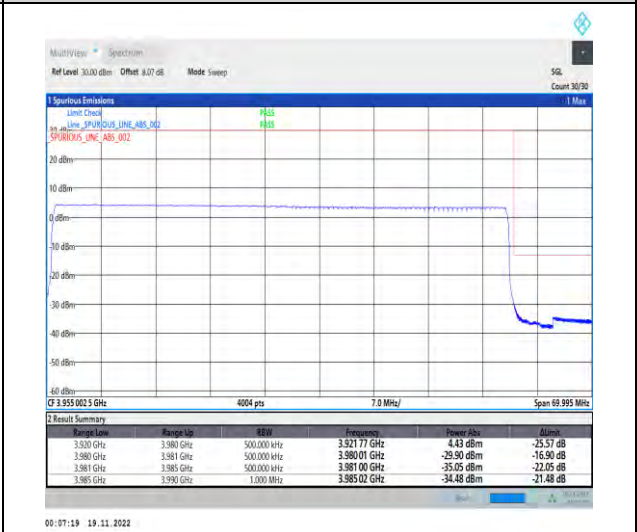
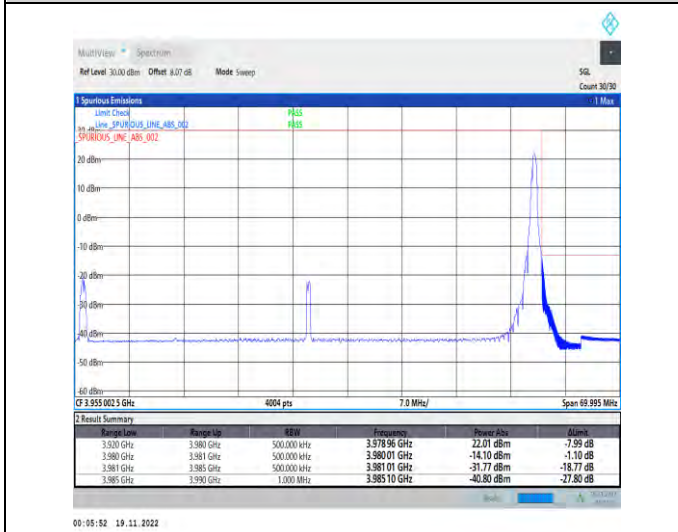
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1-N77-3700-3980-PC2-30-60-L-4-CP-QPSK-Edge_1R
B_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-60-L-6-CP-QPSK-Outer
_Full-162@0-Ant1-1--PASS-see graph



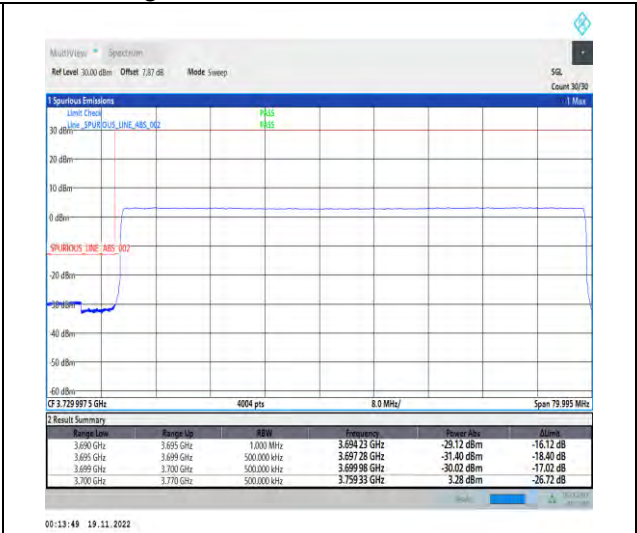
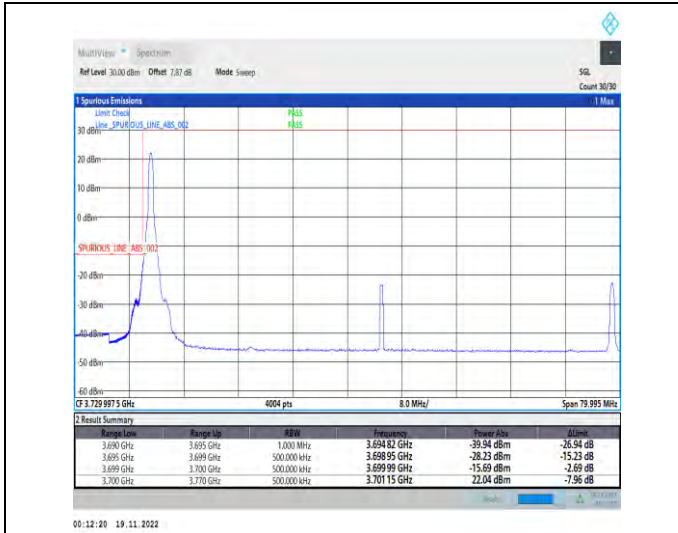
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B_Right-1@161-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-60-H-6-CP-QPSK-Outer
_Full-162@0-Ant1-1--PASS-see graph



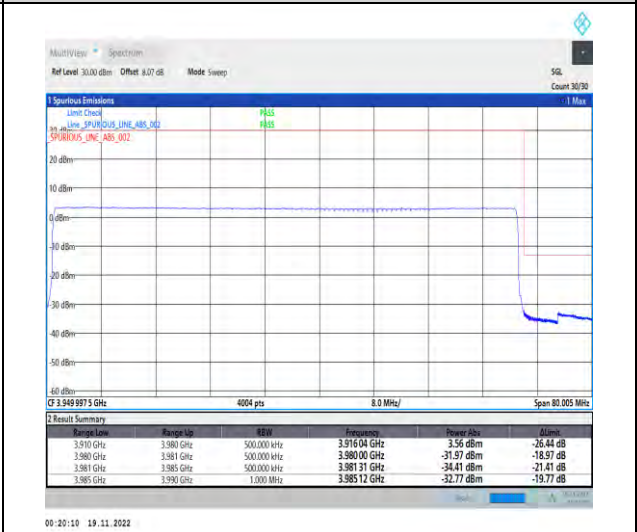
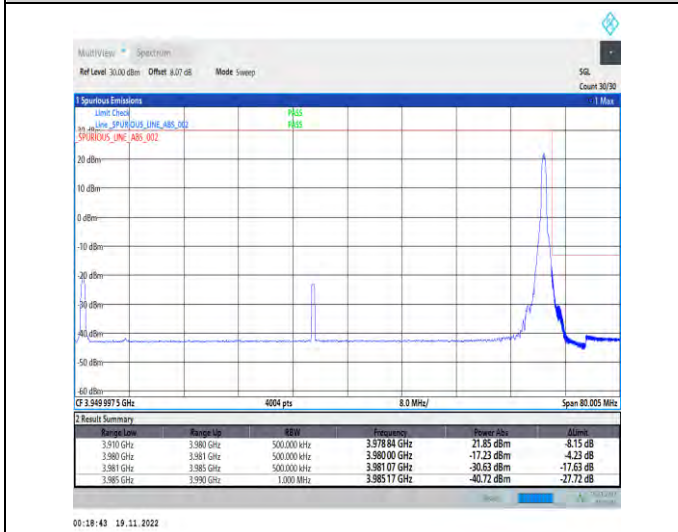
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1-N77-3700-3980-PC2-30-70-L-4-CP-QPSK-Edge_1R
B_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-70-L-6-CP-QPSK-Outer
_Full-189@0-Ant1-1--PASS-see graph



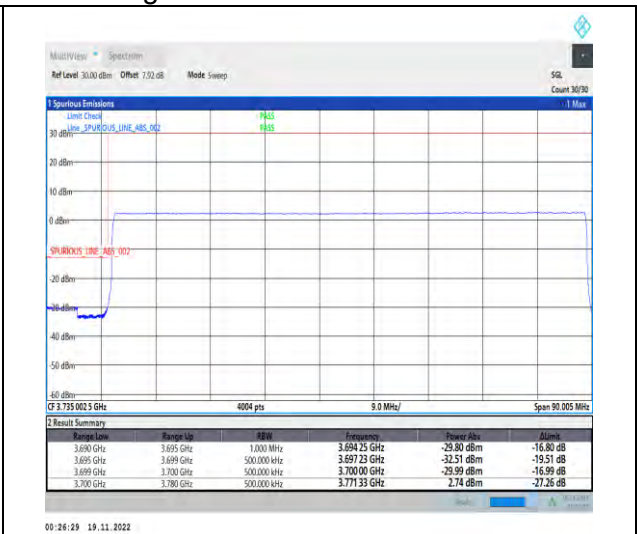
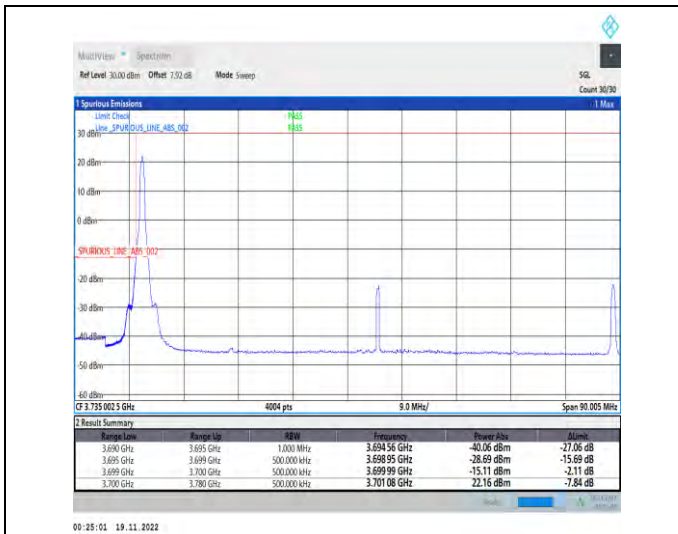
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B_Right-1@188-Ant1-1--PASS-see graph

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_Full-189@0-Ant1-1--PASS-see graph



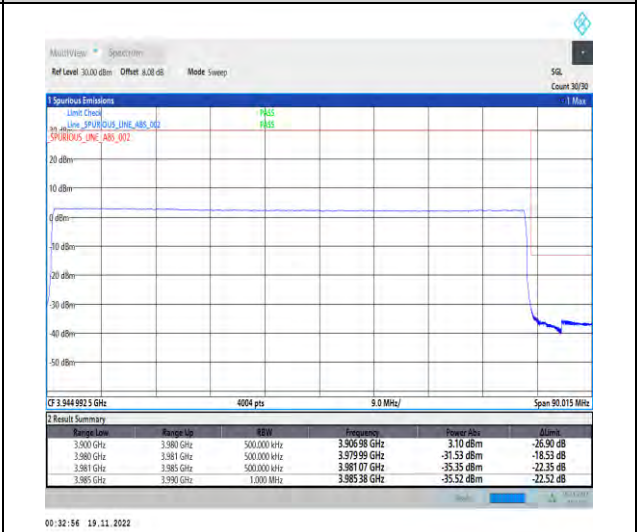
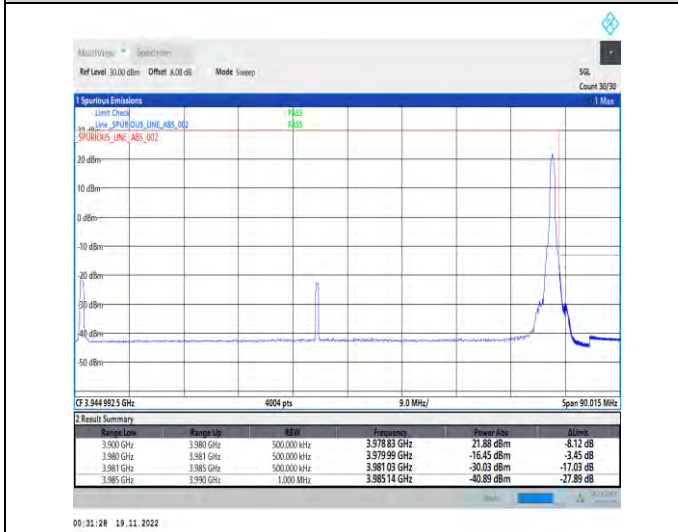
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1-N77-3700-3980-PC2-30-80-L-4-CP-QPSK-Edge_1R
B_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-80-L-6-CP-QPSK-Outer
_Full-217@0-Ant1-1--PASS-see graph



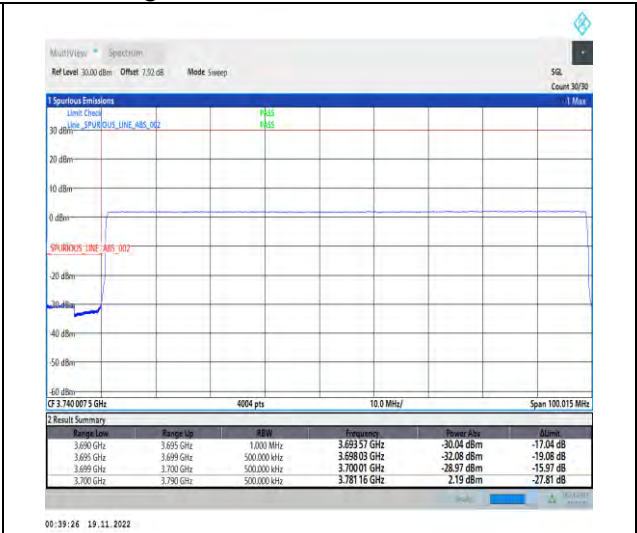
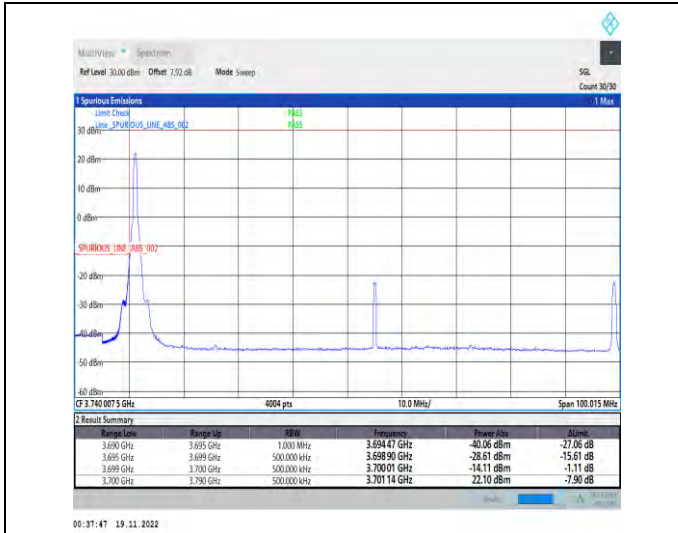
1-N77-3700-3980-PC2-30-80-H-5-CP-QPSK-Edge_1R
B_Right-1@216-Ant1-1--PASS-see graph

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_Full-217@0-Ant1-1--PASS-see graph



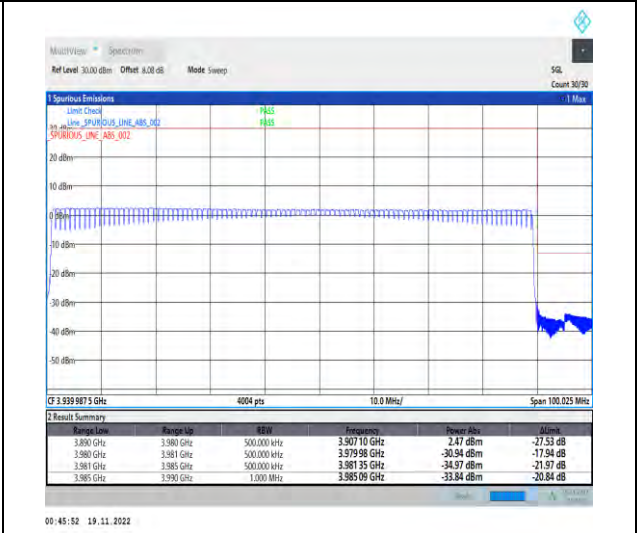
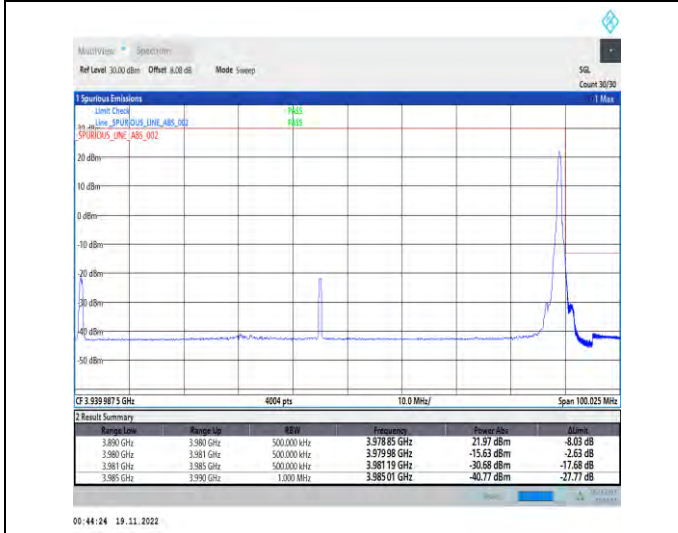
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1-N77-3700-3980-PC2-30-90-L-4-CP-QPSK-Edge_1R
B_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-90-L-6-CP-QPSK-Outer
_Full-245@0-Ant1-1--PASS-see graph



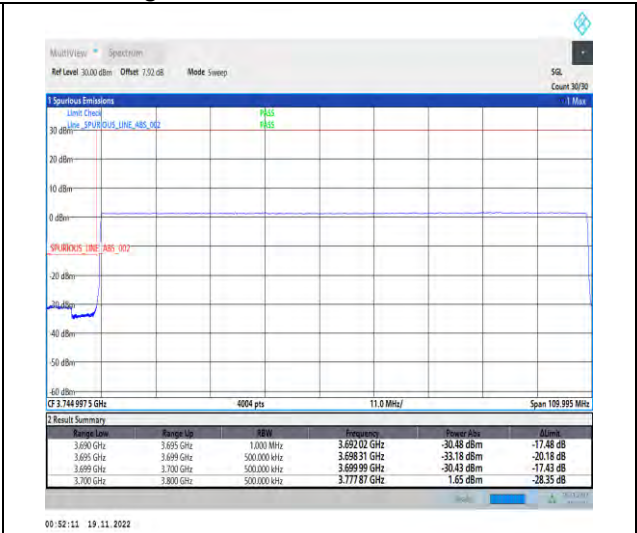
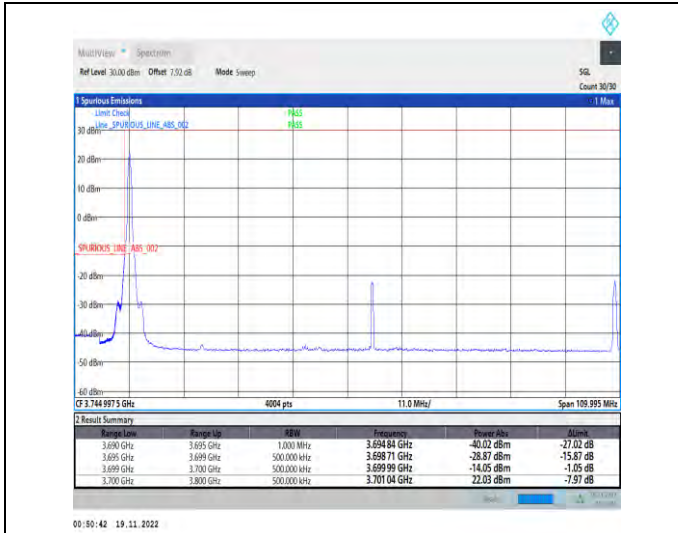
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B_Right-1@244-Ant1-1--PASS-see graph

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_Full-245@0-Ant1-1--PASS-see graph



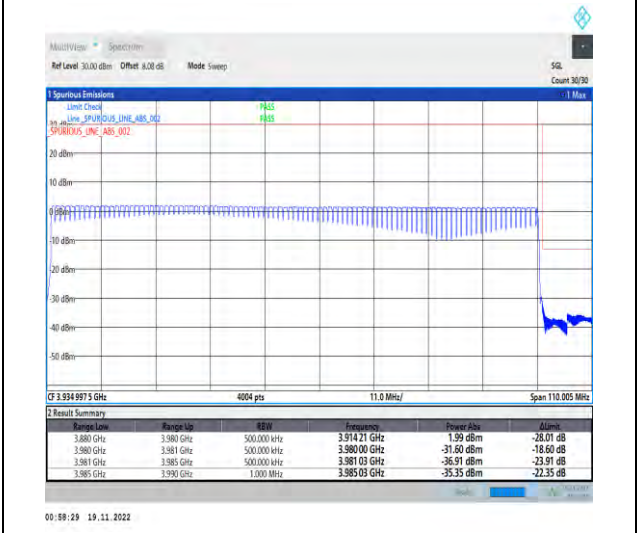
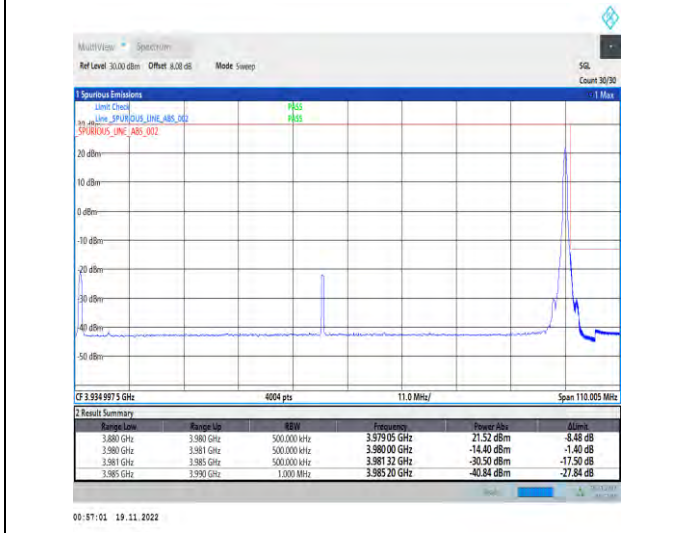
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1-N77-3700-3980-PC2-30-100-L-4-CP-QPSK-Edge_1 RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-100-L-6-CP-QPSK-Out er_Full-273@0-Ant1-1--PASS-see graph



1-N77-3700-3980-PC2-30-100-H-5-CP-QPSK-Edge_1 RB_Right-1@272-Ant1-1--PASS-see graph

1-N77-3700-3980-PC2-30-100-H-6-CP-QPSK-Out er_Full-273@0-Ant1-1--PASS-see graph



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Conducted Spurious Emission for SA

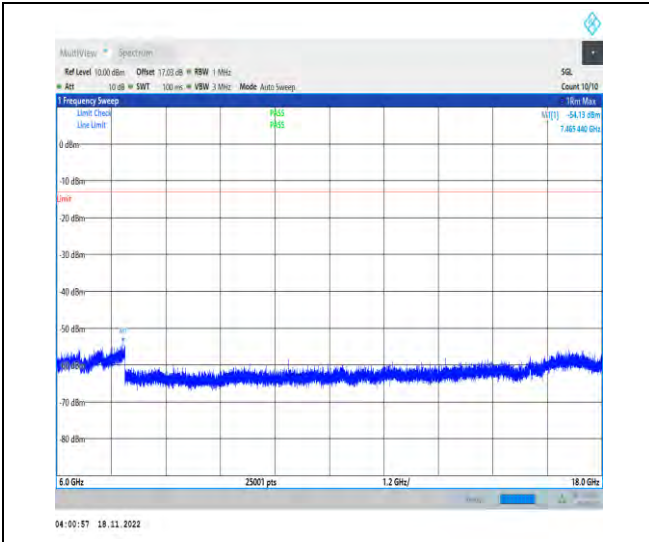
Test Graphs

<p>1-N77-3700-3980-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.01--65.95--43-PASS</p>	<p>1-N77-3700-3980-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-0.15--73.95--33-PASS</p>
<p>1-N77-3700-3980-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-56.68--68.61--13-PASS</p>	<p>1-N77-3700-3980-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1-5935.00--38.84--13-PASS</p>

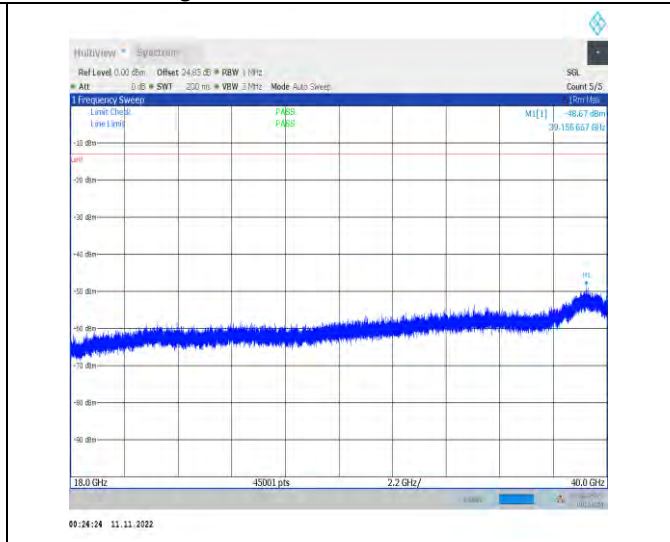


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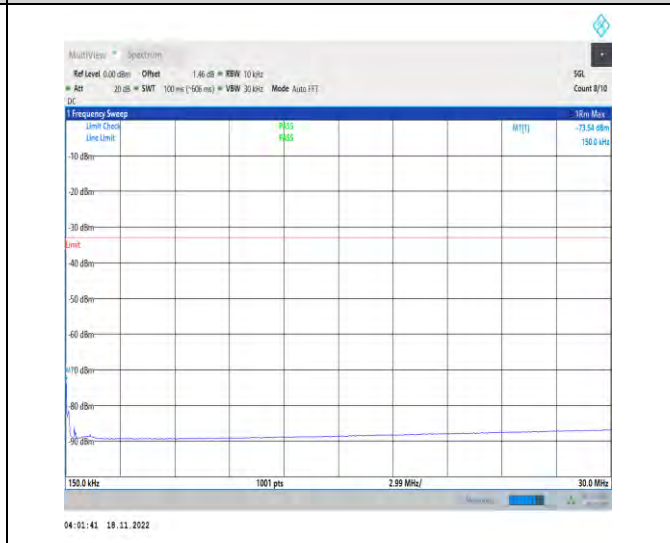
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1-N77-3700-3980-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00--57.84--13-PASS



1-N77-3700-3980-PC2-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.01--66.29--43-PASS

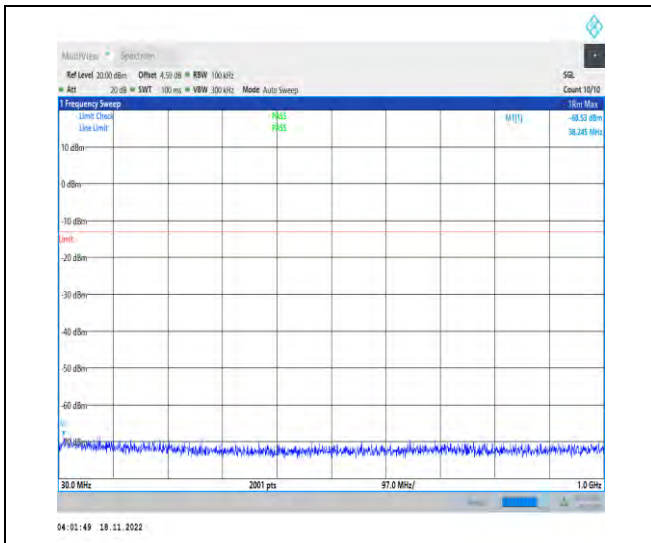


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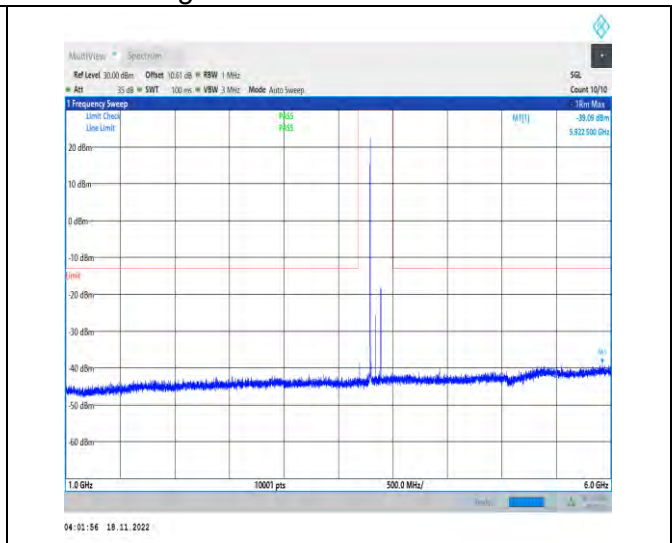


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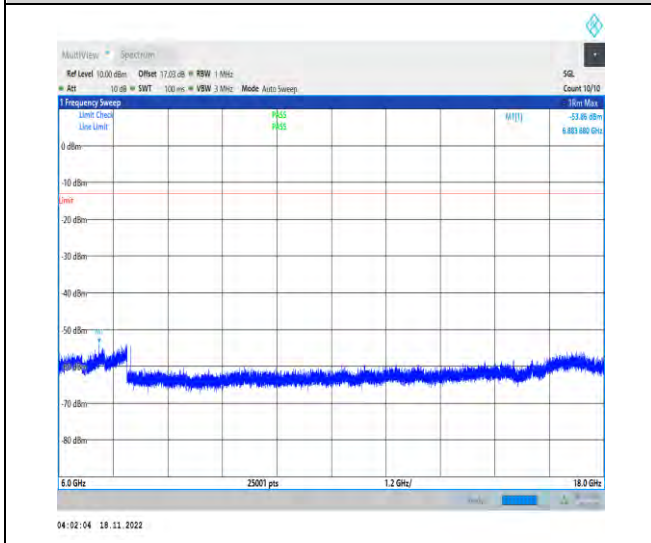
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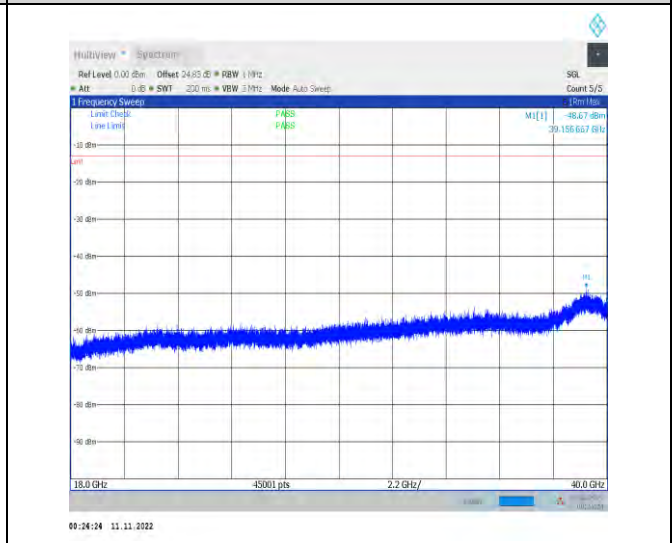
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3-PASS



1-N77-3700-3980-PC2-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1-5922.50--39.09--13-PASS



1-N77-3700-3980-PC2-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-6000-18000-Ant1-6883.68--53.86--13-PASS

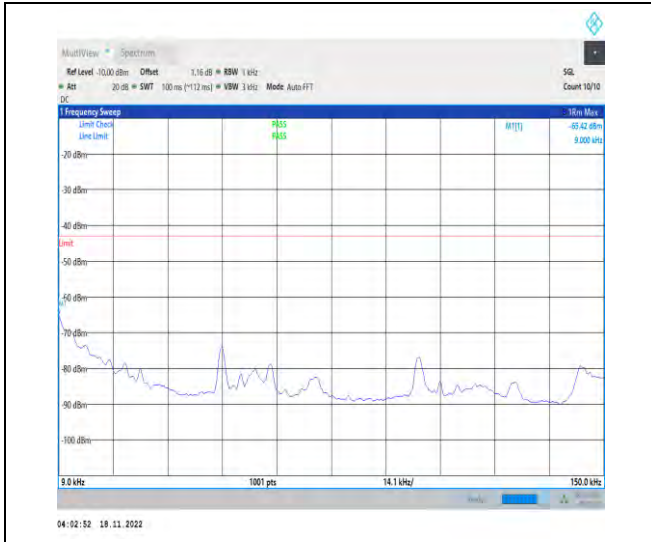


1-N77-3700-3980-PC2-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00--57.74--13-PASS

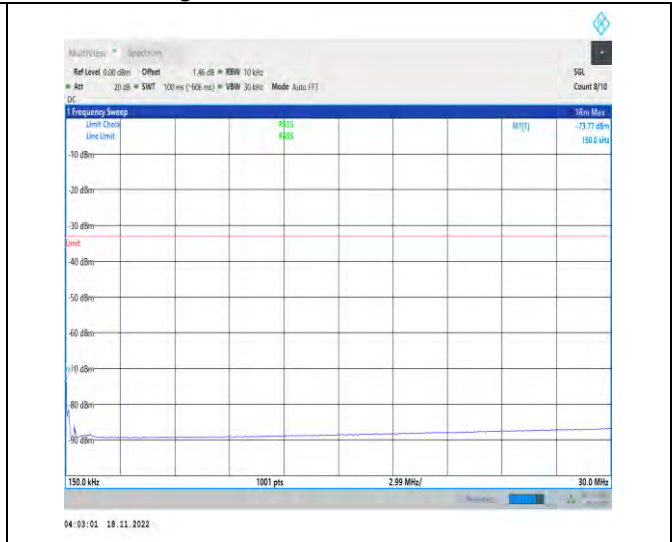


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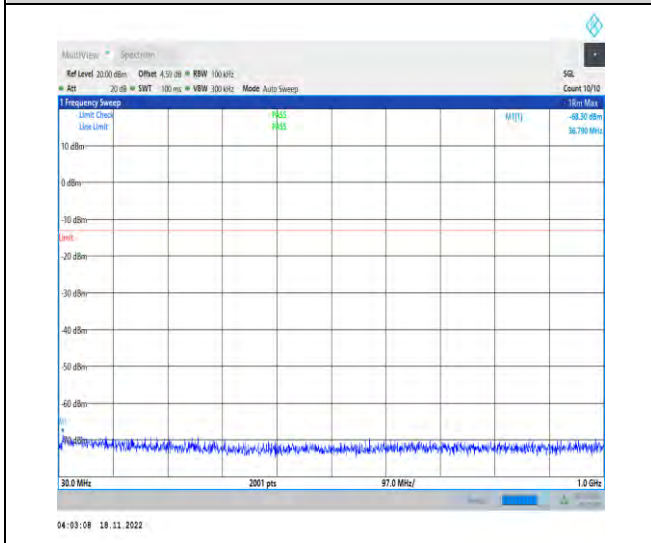
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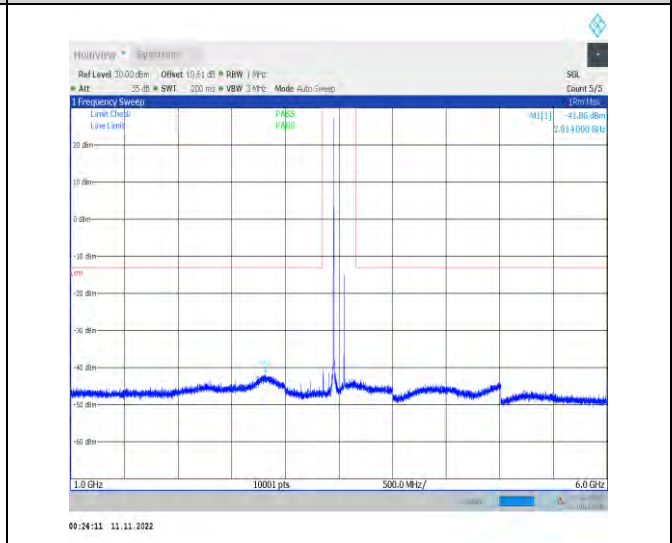
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1-N77-3700-3980-PC2-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-0.15--73.77--33-PA SS



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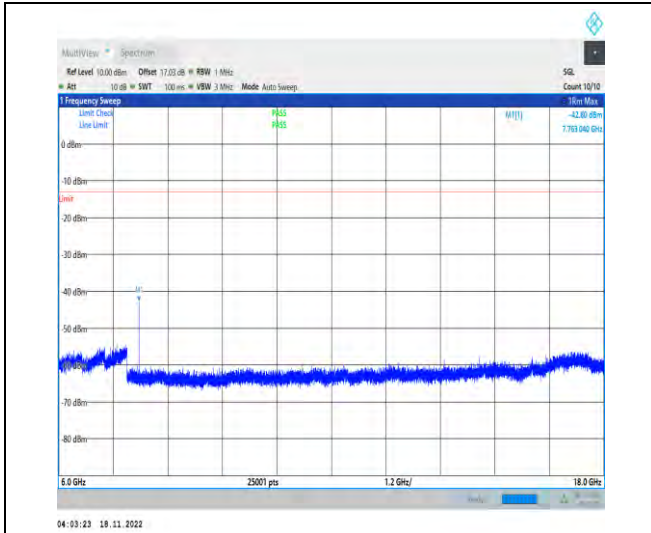


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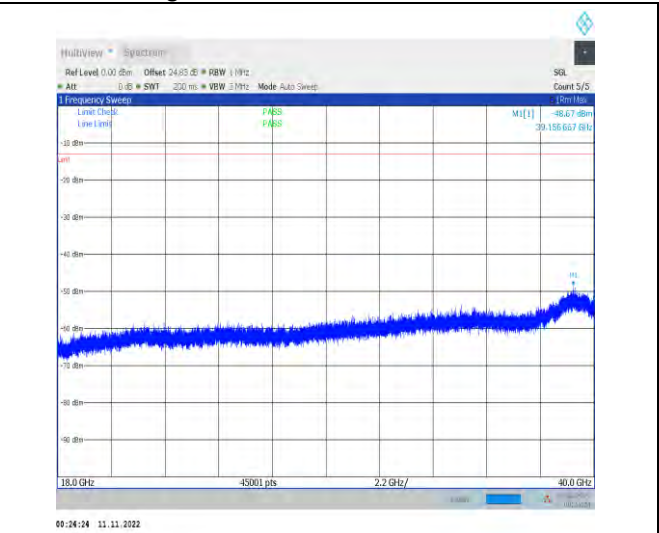


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1-N77-3700-3980-PC2-30-100-H-1-DFT-PI2BPSK-I
nner_1RB_Left-1@1-6000-18000-Ant1-7763.04--42.
80--13-PASS



1-N77-3700-3980-PC2-30-100-H-1-DFT-PI2BPSK-I
nner_1RB_Left-1@1-18000-40000-Ant1-18000.00--57
.46--13-PASS



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Conducted Spurious Emission for MIMO

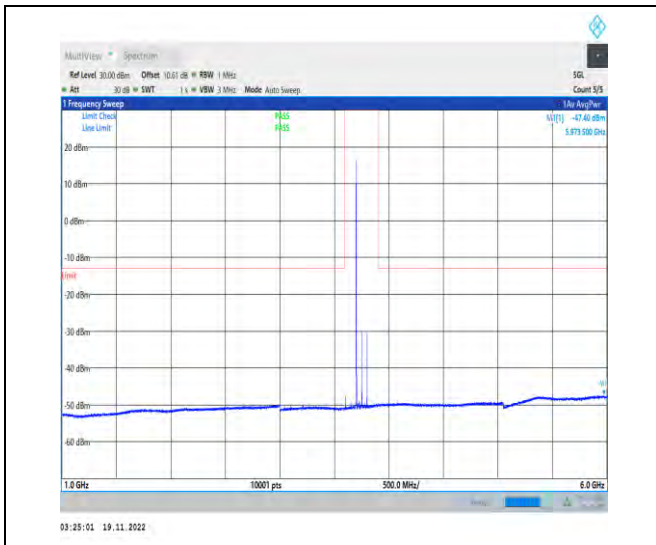
Test Graphs

<p>1-N77-3700-3980-PC2-30-100-L-1-CP-QPSK-Edge_1RB_Left-1@0-0.009-0.15-Ant1-0.01--69.22--43-PA SS</p>	<p>1-N77-3700-3980-PC2-30-100-L-1-CP-QPSK-Edge_1RB_Left-1@0-0.15-30-Ant1-0.15--72.18--33-PASS</p>
<p>1-N77-3700-3980-PC2-30-100-L-1-CP-QPSK-Edge_1RB_Left-1@0-30-1000-Ant1-46.68--65.35--23-PAS S</p>	<p>1-N77-3700-3980-PC2-30-100-L-1-CP-QPSK-Edge_1RB_Left-1@0-1000-3000-Ant1-2987.40--56.51--13-PASS</p>

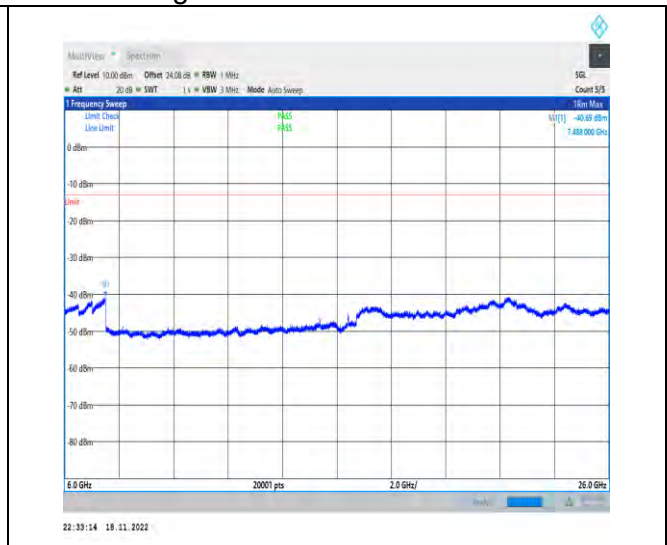


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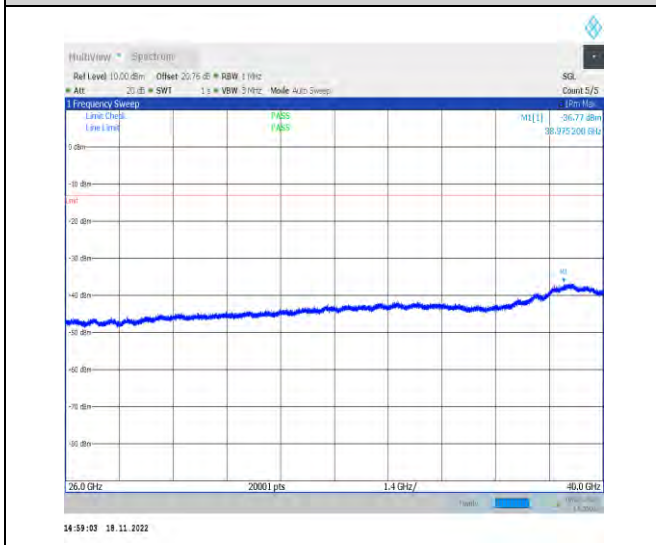
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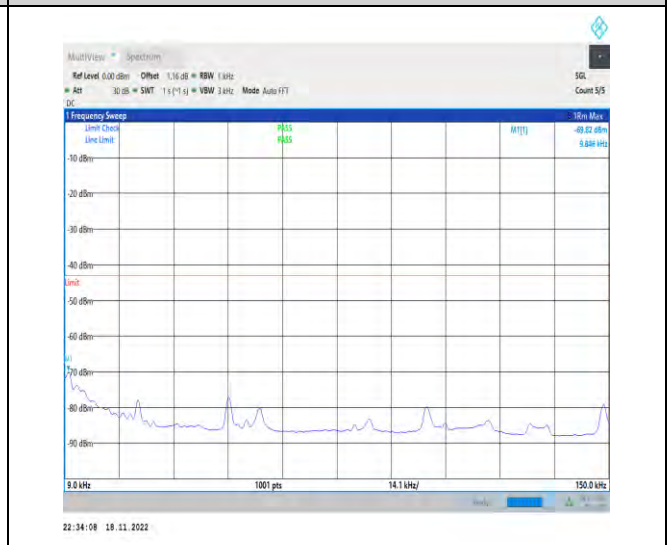
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1-N77-3700-3980-PC2-30-100-L-1-CP-QPSK-Edge_1RB_Left-1@0-6000-26000-Ant1-7488.00--40.69--13-PASS



1-N77-3700-3980-PC2-30-100-L-1-CP-QPSK-Edge_1RB_Left-1@0-26000-40000-Ant1-26000.00--46.42--13-PASS

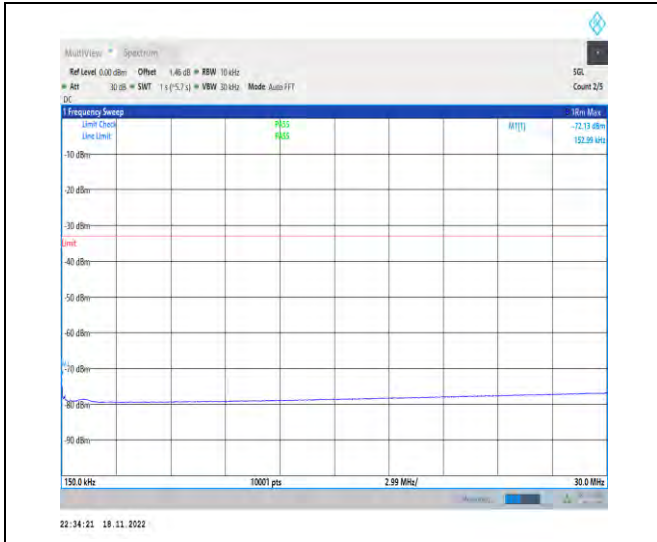


1-N77-3700-3980-PC2-30-100-M-1-CP-QPSK-Edge_1RB_Left-1@0-0.009-0.15-Ant1-0.01--69.82--43-PASS

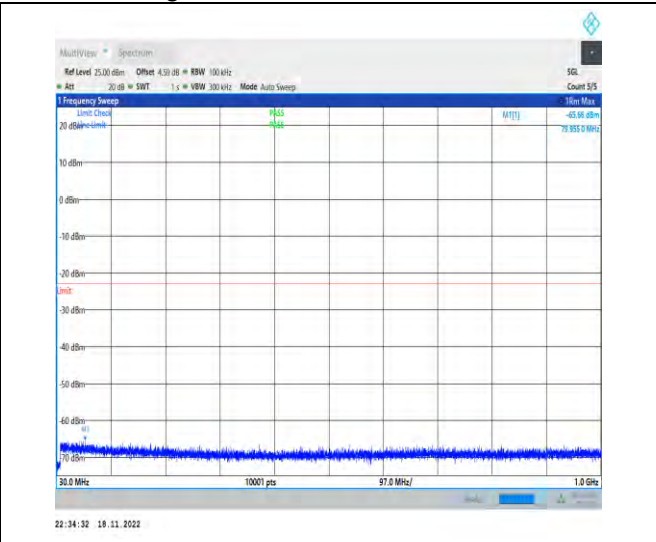


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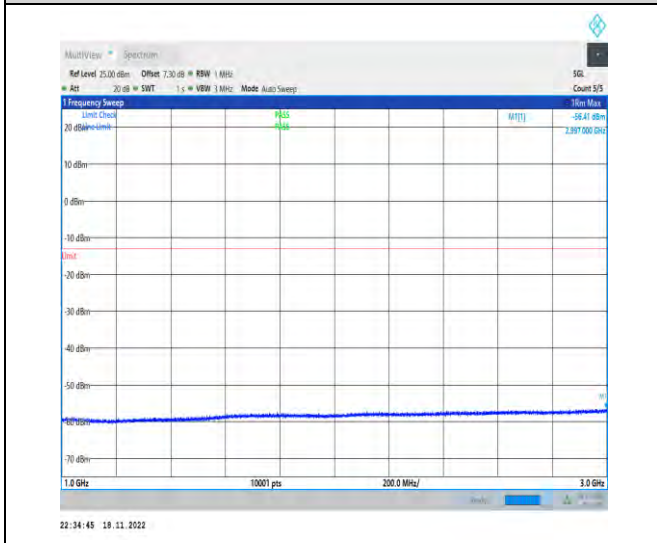
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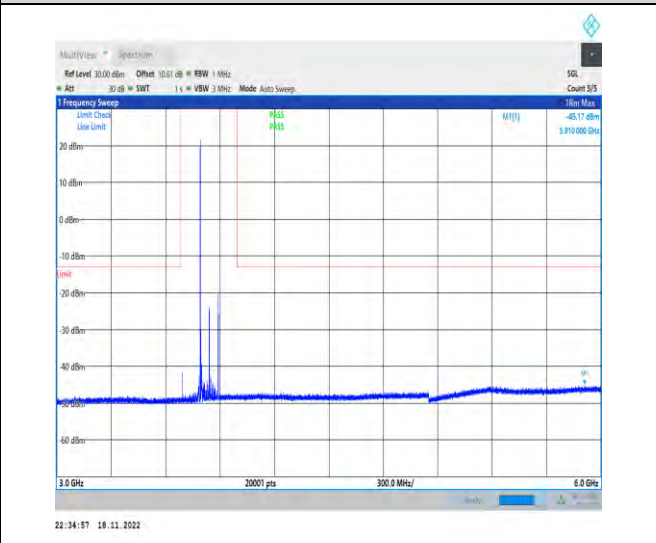
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1-N77-3700-3980-PC2-30-100-M-1-CP-QPSK-Edge
 _1RB_Left-1@0-30-1000-Ant1-79.96--65.66--23-PA
 SS



1-N77-3700-3980-PC2-30-100-M-1-CP-QPSK-Edge
 _1RB_Left-1@0-1000-3000-Ant1-2997.00--56.41--1
 3-PASS

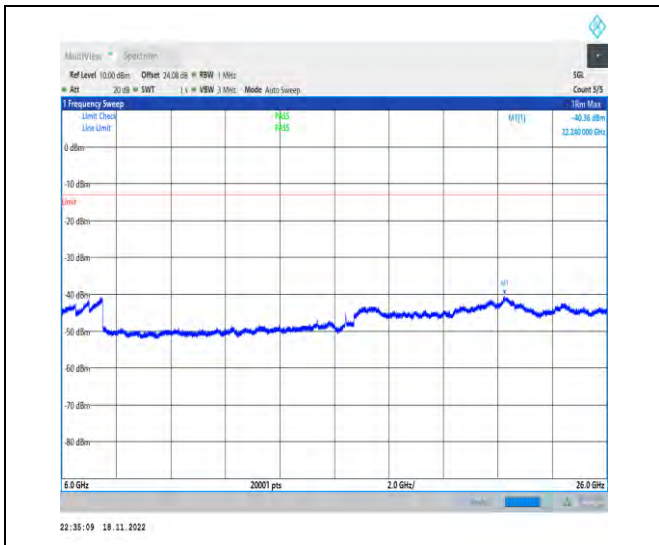


1-N77-3700-3980-PC2-30-100-M-1-CP-QPSK-Edge
 _1RB_Left-1@0-3000-6000-Ant1-5910.00--45.17--1
 3-PASS

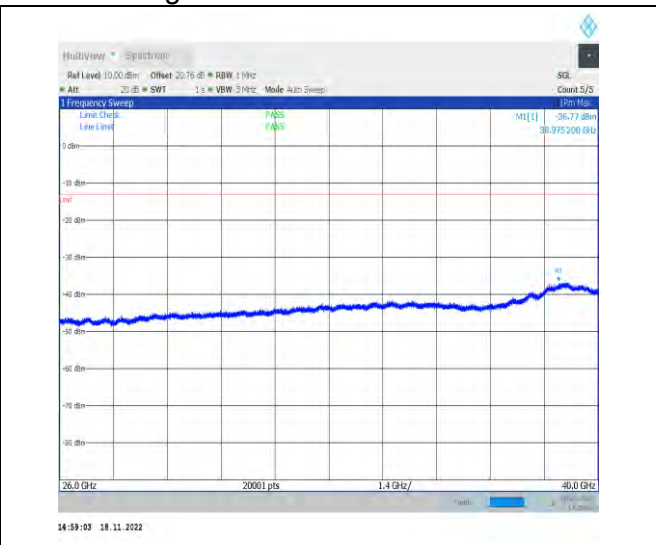


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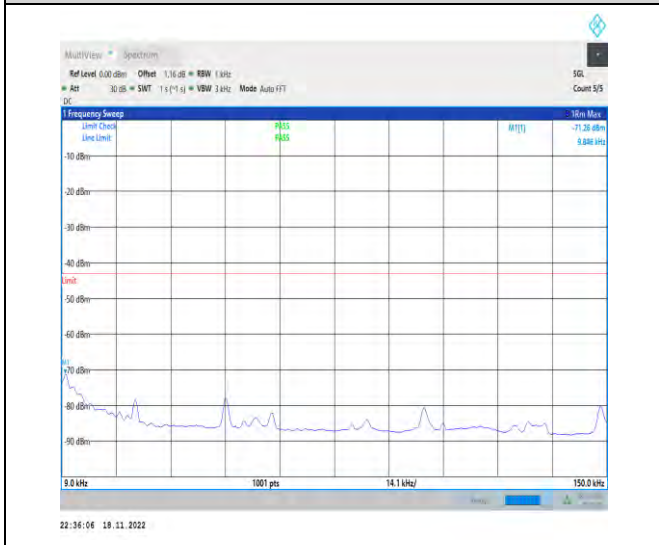
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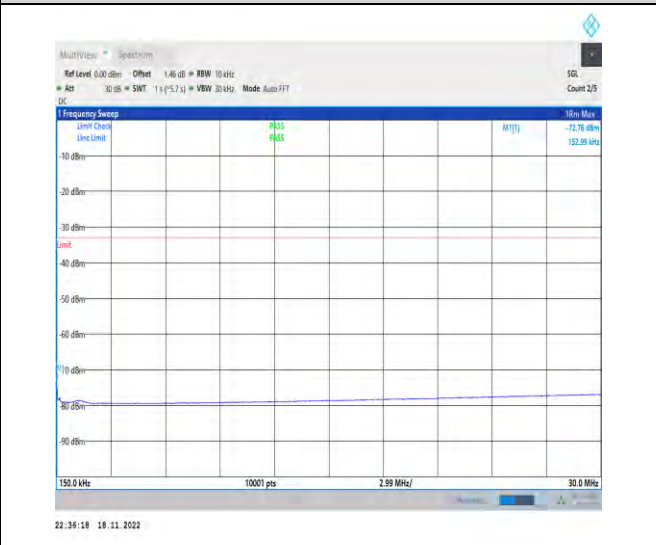
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1-N77-3700-3980-PC2-30-100-M-1-CP-QPSK-Edge_1RB_Left-1@0-26000-40000-Ant1-26000.00--46.40--13-PASS



1-N77-3700-3980-PC2-30-100-H-1-CP-QPSK-Edge_1RB_Left-1@0-0.009-0.15-Ant1-0.01--71.26--43-PASS

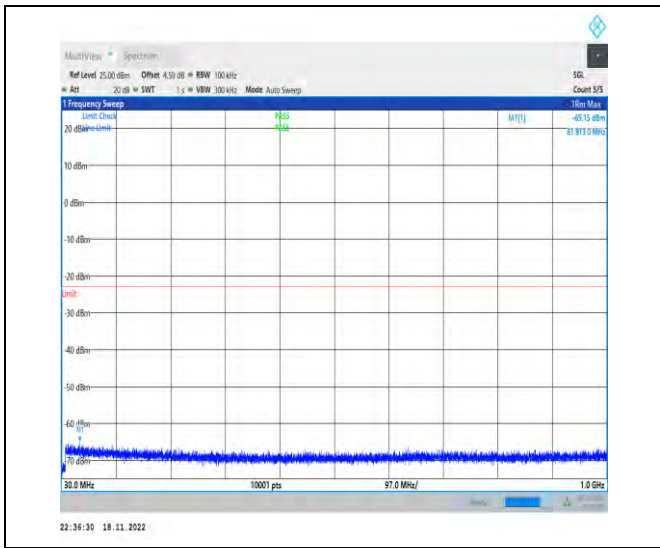


1-N77-3700-3980-PC2-30-100-H-1-CP-QPSK-Edge_1RB_Left-1@0-0.15-30-Ant1-0.15--72.76--33-PASS

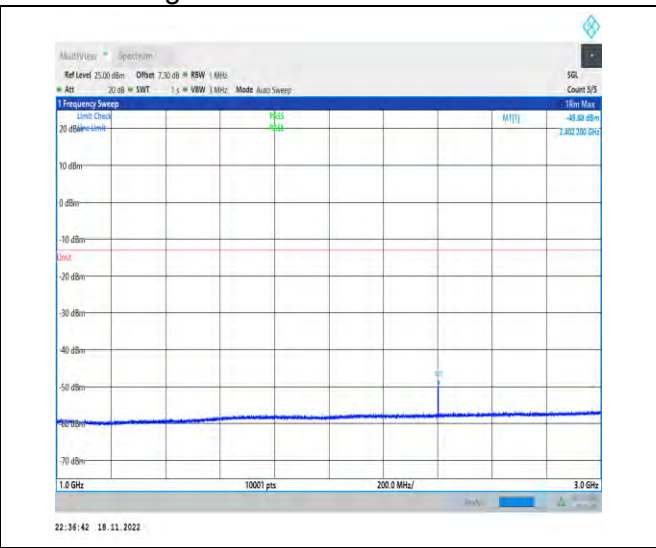


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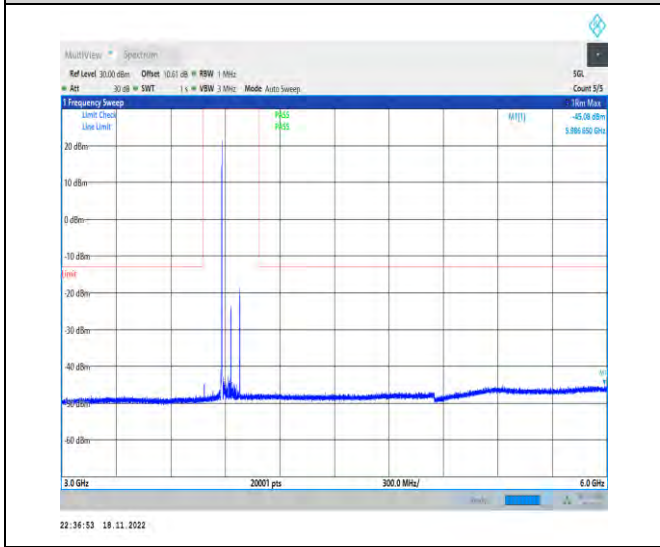
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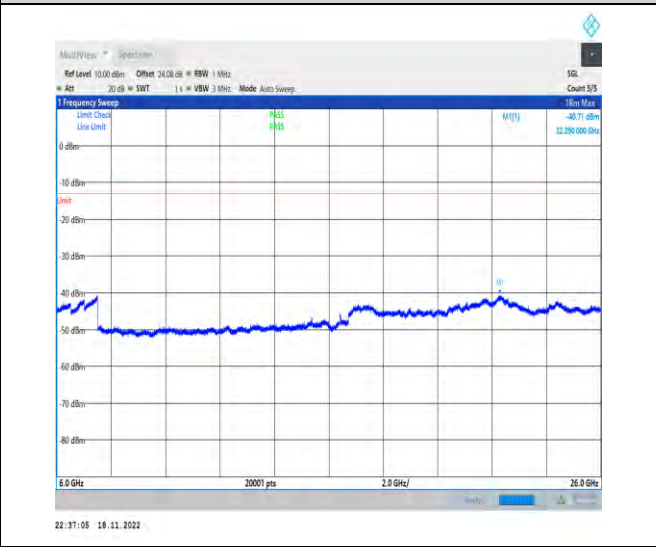
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 SS



1-N77-3700-3980-PC2-30-100-H-1-CP-QPSK-Edge_1RB_Left-1@0-1000-3000-Ant1-2402.20--49.88--13-PASS



1-N77-3700-3980-PC2-30-100-H-1-CP-QPSK-Edge_1RB_Left-1@0-3000-6000-Ant1-5986.65--45.08--13-PASS



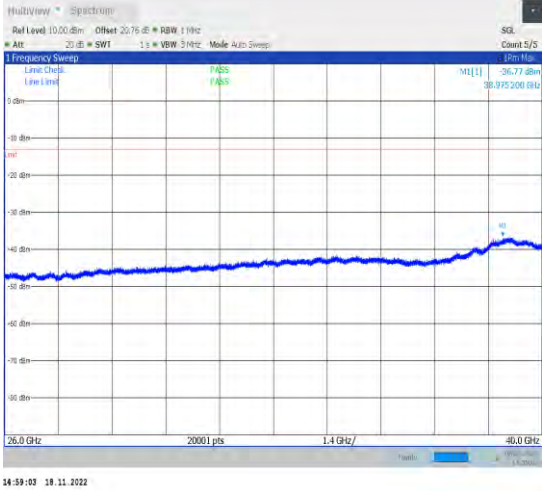
1-N77-3700-3980-PC2-30-100-H-1-CP-QPSK-Edge_1RB_Left-1@0-6000-26000-Ant1-22290.00--40.71--13-PASS



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1-N77-3700-3980-PC2-30-100-H-1-CP-QPSK-Edge
 _1RB_Left-1@0-26000-40000-Ant1-26000.00--46.47
 --13-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band 77 3700M-3980M_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8739.1458	38.09	-39.13	38.31	-57.99	-13.00	44.99	196	360	Horizontal
2	13071.7708	34.47	-34.69	39.64	-55.84	-13.00	42.84	265	344	Horizontal
3	17948.25	32.99	-31.24	42.39	-51.12	-13.00	38.12	241	359	Horizontal
4	7482.18	39.26	-41.66	36.49	-61.17	-13.00	48.17	185	107	Horizontal
5	11223.27	33.34	-35.10	39.38	-57.64	-13.00	44.64	255	235	Horizontal
6	14964.36	31.56	-34.32	39.24	-58.78	-13.00	45.78	256	143	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	7863.2292	49.09	-40.77	37.23	-49.71	-13.00	36.71	174	19	Vertical
2	9547.9792	38.68	-37.95	38.55	-55.98	-13.00	42.98	142	19	Vertical
3	13057.3958	34.30	-34.73	39.63	-56.05	-13.00	43.05	265	312	Vertical
4	7482.18	39.03	-41.66	36.49	-61.40	-13.00	48.40	295	345	Vertical
5	11223.27	32.67	-35.10	39.38	-58.31	-13.00	45.31	284	35	Vertical
6	14964.36	31.64	-34.32	39.24	-58.70	-13.00	45.70	142	218	Vertical



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Test Band = SA Band 77 3700M-3980M_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8042.9167	48.77	-40.42	37.55	-49.37	-13.00	36.37	196	162	Horizontal
2	9612.1875	38.58	-37.76	38.54	-55.91	-13.00	42.91	265	360	Horizontal
3	13057.875	34.28	-34.73	39.63	-56.07	-13.00	43.07	284	234	Horizontal
4	7770.18	39.04	-41.00	37.04	-60.18	-13.00	47.18	142	360	Horizontal
5	11655.27	31.44	-35.22	38.94	-60.09	-13.00	47.09	255	352	Horizontal
6	15540.36	30.91	-33.41	38.50	-59.26	-13.00	46.26	263	306	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	8043.3958	53.41	-40.42	37.55	-44.73	-13.00	31.73	185	306	Vertical
2	9683.5833	36.94	-37.67	38.53	-57.46	-13.00	44.46	265	57	Vertical
3	13584.4792	34.75	-34.34	39.95	-54.90	-13.00	41.90	241	128	Vertical
4	7770.18	38.68	-41.00	37.04	-60.54	-13.00	47.54	142	199	Vertical
5	11655.27	32.03	-35.22	38.94	-59.50	-13.00	46.50	255	20	Vertical
6	15540.36	31.41	-33.41	38.50	-58.76	-13.00	45.76	253	325	Vertical



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Test Band = SA Band 77 3700M-3980M_ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8202	58.73	-40.18	37.72	-38.99	-13.00	25.99	285	340	Horizontal
2	10196.2917	35.84	-36.61	38.72	-57.31	-13.00	44.31	241	72	Horizontal
3	12302.7083	42.22	-35.02	38.90	-49.15	-13.00	36.15	142	358	Horizontal
4	7770.18	38.06	-41.00	37.04	-61.16	-13.00	48.16	263	179	Horizontal
5	11655.27	31.16	-35.22	38.94	-60.37	-13.00	47.37	265	360	Horizontal
6	15540.36	30.50	-33.41	38.50	-59.67	-13.00	46.67	296	231	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	8202	50.37	-40.18	37.72	-47.35	-13.00	34.35	296	234	Vertical
2	10217.8542	36.46	-36.64	38.74	-56.70	-13.00	43.70	265	157	Vertical
3	13591.1875	35.01	-34.37	39.95	-54.67	-13.00	41.67	284	215	Vertical
4	7770.18	38.38	-41.00	37.04	-60.84	-13.00	47.84	142	139	Vertical
5	11655.27	32.82	-35.22	38.94	-58.71	-13.00	45.71	255	358	Vertical
6	15540.36	30.90	-33.41	38.50	-59.27	-13.00	46.27	286	68	Vertical



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Test Band = UL MIMO SA Band 77 3700M-3980M_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7402.2708	43.90	-41.98	36.44	-56.90	-13.00	43.90	241	308	Horizontal
2	8915.9583	36.75	-38.90	38.51	-58.90	-13.00	45.90	254	142	Horizontal
3	12574.875	32.89	-34.71	39.17	-57.90	-13.00	44.90	122	51	Horizontal
4	17339.2292	32.34	-31.77	39.96	-54.74	-13.00	41.74	263	105	Horizontal
5	11223.27	32.04	-35.10	39.38	-58.94	-13.00	45.94	221	344	Horizontal
6	11835.27	31.96	-35.25	38.76	-59.78	-13.00	46.78	159	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	7401.7917	50.47	-41.98	36.44	-50.33	-13.00	37.33	296	156	Vertical
2	8925.5417	37.78	-38.87	38.52	-57.84	-13.00	44.84	265	13	Vertical
3	13073.2083	34.40	-34.69	39.64	-55.90	-13.00	42.90	241	46	Vertical
4	17826.0625	32.35	-30.96	41.90	-51.96	-13.00	38.96	142	4	Vertical
5	11223.27	32.35	-35.10	39.38	-58.63	-13.00	45.63	263	4	Vertical
6	14964.36	31.17	-34.32	39.24	-59.17	-13.00	46.17	201	211	Vertical



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Test Band = UL MIMO SA Band 77 3700M-3980M_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8706.0833	37.01	-39.23	38.28	-59.21	-13.00	46.21	296	123	Horizontal
2	12964.9167	34.10	-34.91	39.56	-56.50	-13.00	43.50	265	32	Horizontal
3	17934.8333	32.48	-31.23	42.34	-51.67	-13.00	38.67	241	104	Horizontal
4	7590.18	37.47	-41.27	36.68	-62.38	-13.00	49.38	114	199	Horizontal
5	11835.27	31.80	-35.25	38.76	-59.94	-13.00	46.94	255	270	Horizontal
6	15180.36	30.02	-33.62	38.97	-59.89	-13.00	46.89	263	87	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	7581.9583	43.90	-41.30	36.66	-56.00	-13.00	43.00	142	105	Vertical
2	9561.875	37.79	-37.90	38.54	-56.83	-13.00	43.83	285	233	Vertical
3	13696.125	33.47	-34.87	40.02	-56.64	-13.00	43.64	263	252	Vertical
4	17791.5625	31.06	-30.89	41.77	-53.33	-13.00	40.33	265	105	Vertical
5	11835.27	31.66	-35.25	38.76	-60.08	-13.00	47.08	241	121	Vertical
6	15180.36	31.07	-33.62	38.97	-58.84	-13.00	45.84	142	178	Vertical



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Test Band = UL MIMO SA Band 77 3700M-3980M_ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9440.6458	37.06	-37.83	38.56	-57.48	-13.00	44.48	296	144	Horizontal
2	13702.8333	34.62	-34.90	40.02	-55.52	-13.00	42.52	265	0	Horizontal
3	17827.9792	32.60	-30.96	41.91	-51.71	-13.00	38.71	284	86	Horizontal
4	7770.18	37.96	-41.00	37.04	-61.26	-13.00	48.26	142	0	Horizontal
5	11655.27	31.75	-35.22	38.94	-59.78	-13.00	46.78	255	288	Horizontal
6	15540.36	30.54	-33.41	38.50	-59.63	-13.00	46.63	263	180	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	7762.125	43.21	-41.03	37.02	-56.06	-13.00	43.06	201	252	Vertical
2	9580.5625	37.58	-37.84	38.54	-56.98	-13.00	43.98	142	86	Vertical
3	13283.5625	33.51	-35.05	39.77	-57.03	-13.00	44.03	263	105	Vertical
4	17330.125	32.87	-31.77	39.92	-54.24	-13.00	41.24	265	1	Vertical
5	11655.27	30.93	-35.22	38.94	-60.60	-13.00	47.60	241	252	Vertical
6	15540.36	31.34	-33.41	38.50	-58.83	-13.00	45.83	142	15	Vertical



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Test Band = DC_5A_n77A 3700M-3980M_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7402.2708	43.44	-41.98	36.44	-57.36	-13.00	44.36	296	46	Horizontal
2	9564.75	37.81	-37.89	38.54	-56.80	-13.00	43.80	265	307	Horizontal
3	12966.8333	34.05	-34.90	39.57	-56.55	-13.00	43.55	241	46	Horizontal
4	17999.0417	31.89	-31.31	42.60	-52.08	-13.00	39.08	142	123	Horizontal
5	11223.27	31.84	-35.10	39.38	-59.14	-13.00	46.14	263	270	Horizontal
6	14964.36	31.04	-34.32	39.24	-59.30	-13.00	46.30	220	65	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	7402.2708	50.16	-41.98	36.44	-50.64	-13.00	37.64	142	357	Vertical
2	9101.875	36.18	-38.69	38.59	-59.18	-13.00	46.18	296	308	Vertical
3	12108.1667	33.70	-35.10	38.71	-57.95	-13.00	44.95	265	125	Vertical
4	17934.3542	32.43	-31.22	42.34	-51.72	-13.00	38.72	285	181	Vertical
5	11223.27	32.16	-35.10	39.38	-58.82	-13.00	45.82	241	0	Vertical
6	14964.36	31.30	-34.32	39.24	-59.04	-13.00	46.04	142	181	Vertical



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Test Band = DC_5A_n77A 3700M-3980M_TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8702.25	36.84	-39.24	38.27	-59.39	-13.00	46.39	142	178	Horizontal
2	13580.1667	34.01	-34.32	39.95	-55.62	-13.00	42.62	285	83	Horizontal
3	17822.2292	32.46	-30.95	41.89	-51.86	-13.00	38.86	263	326	Horizontal
4	7590.18	37.36	-41.27	36.68	-62.49	-13.00	49.49	265	233	Horizontal
5	11835.27	31.30	-35.25	38.76	-60.44	-13.00	47.44	244	102	Horizontal
6	15180.36	30.60	-33.62	38.97	-59.31	-13.00	46.31	196	1	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	8043.3958	41.84	-40.42	37.55	-56.30	-13.00	43.30	196	357	Vertical
2	13588.7917	34.19	-34.36	39.95	-55.48	-13.00	42.48	265	288	Vertical
3	17978.4375	31.87	-31.28	42.51	-52.16	-13.00	39.16	322	14	Vertical
4	7590.18	37.64	-41.27	36.68	-62.21	-13.00	49.21	241	49	Vertical
5	11835.27	31.19	-35.25	38.76	-60.55	-13.00	47.55	142	251	Vertical
6	15180.36	30.57	-33.62	38.97	-59.34	-13.00	46.34	269	5	Vertical



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Test Band = DC_5A_n77A 3700M-3980M_TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9563.3125	37.60	-37.90	38.54	-57.01	-13.00	44.01	185	341	Horizontal
2	13450.3125	33.60	-34.46	39.87	-56.25	-13.00	43.25	266	68	Horizontal
3	17922.8542	32.82	-31.21	42.29	-51.36	-13.00	38.36	254	123	Horizontal
4	7770.18	38.63	-41.00	37.04	-60.59	-13.00	47.59	142	158	Horizontal
5	11655.27	30.85	-35.22	38.94	-60.68	-13.00	47.68	263	49	Horizontal
6	15540.36	30.68	-33.41	38.50	-59.49	-13.00	46.49	221	215	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	7762.125	43.03	-41.03	37.02	-56.24	-13.00	43.24	196	51	Vertical
2	9575.2917	37.66	-37.86	38.54	-56.92	-13.00	43.92	265	32	Vertical
3	13593.1042	33.85	-34.38	39.96	-55.83	-13.00	42.83	241	303	Vertical
4	17922.375	32.31	-31.21	42.29	-51.87	-13.00	38.87	142	340	Vertical
5	11655.27	30.53	-35.22	38.94	-61.00	-13.00	48.00	233	357	Vertical
6	15540.36	30.18	-33.41	38.50	-59.99	-13.00	46.99	266	267	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
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	2.900000	0.000755	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	15.400000	0.004010	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	9.500000	0.002474	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	7.800000	0.002031	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	-0.600000	-0.000156	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	3.000000	0.000781	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	6.500000	0.001693	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	10.000000	0.002604	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	4.300000	0.001120	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	16.500000	0.004297	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	4.300000	0.001120	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	6.300000	0.001641	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	16.000000	0.004167	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	14.600000	0.003802	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	0.300000	0.000078	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	4.400000	0.001146	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-20	2.700000	0.000703	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	2.500000	0.000651	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	7.000000	0.001823	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	10	7.700000	0.002005	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	20	3.300000	0.000859	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	2.100000	0.000547	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	1.800000	0.000469	PASS



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3700-3980										
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	11.400000	0.002969	PASS

---End of Attachment---



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