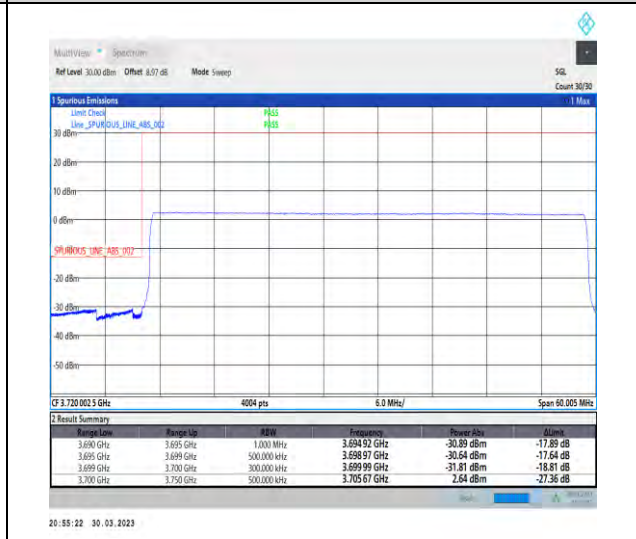
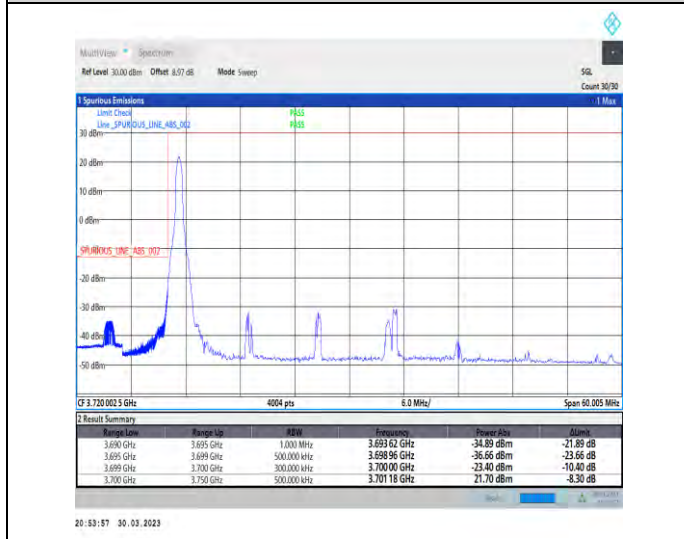


1-N77-3700-3980-30-50-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-30-50-L-3-DFT-PI2BPSK-Outer_Full-128@0-Ant1-1--PASS-see graph



1-N77-3700-3980-30-50-L-4-CP-QPSK-Edge_1RB_Lef t-1@0-Ant1-1--PASS-see graph

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



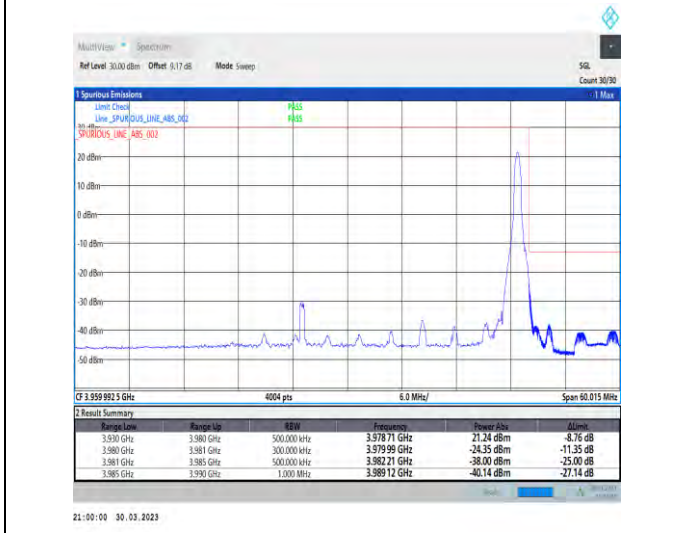
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1-N77-3700-3980-30-50-H-2-DFT-PI2BPSK-Edge_1R B_Right-1@132-Ant1-1--PASS-see graph

1-N77-3700-3980-30-50-H-3-DFT-PI2BPSK-Outer_Full-128@0-Ant1-1--PASS-see graph



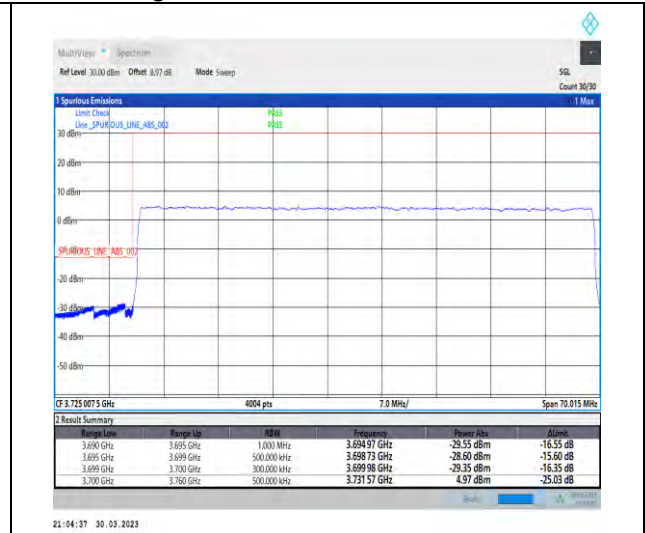
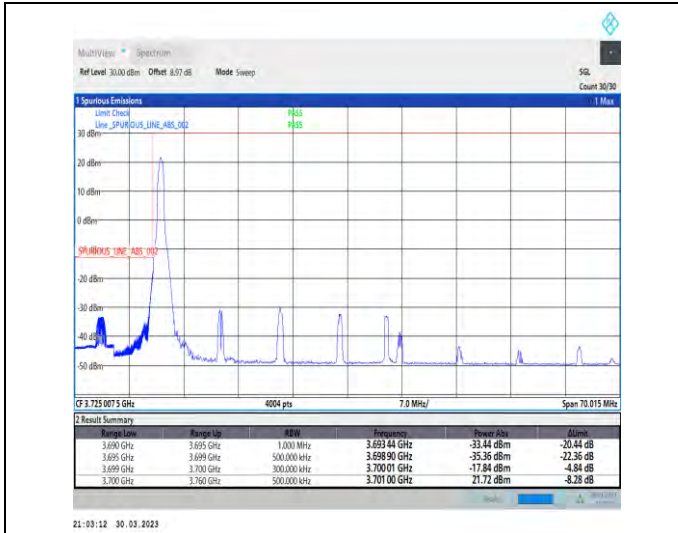
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1-N77-3700-3980-30-50-H-6-CP-QPSK-Outer_Full-133@0-Ant1-1--PASS-see graph



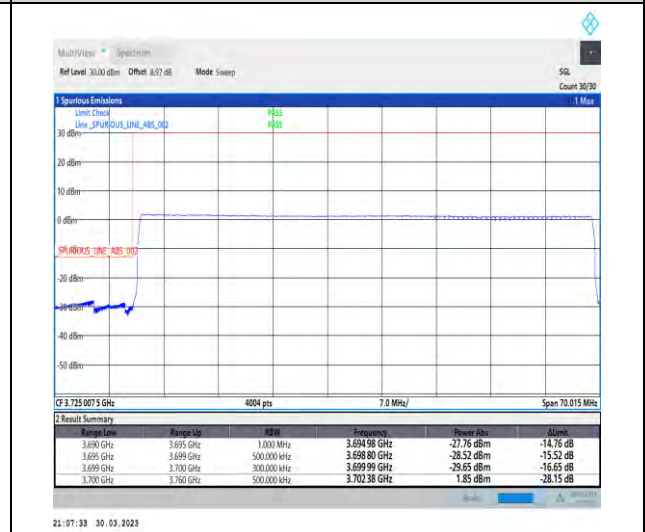
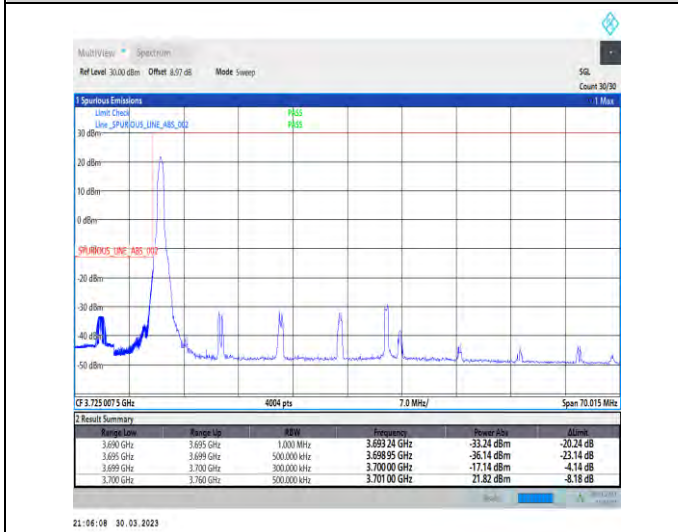
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1-N77-3700-3980-30-60-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-30-60-L-3-DFT-PI2BPSK-Outer_Full-162@0-Ant1-1--PASS-see graph



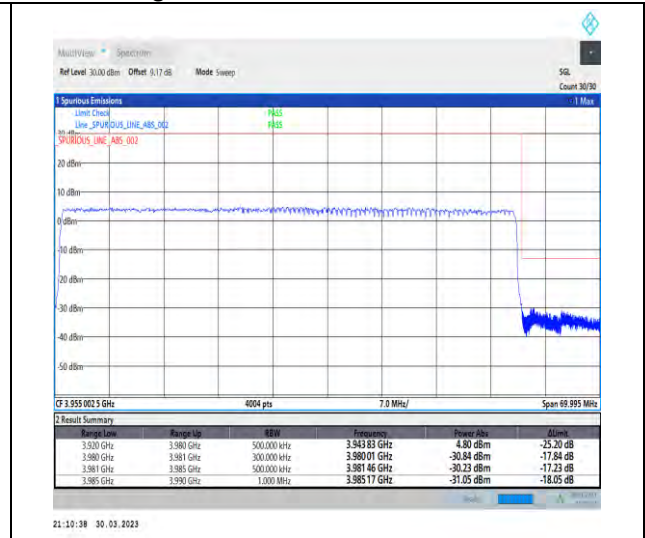
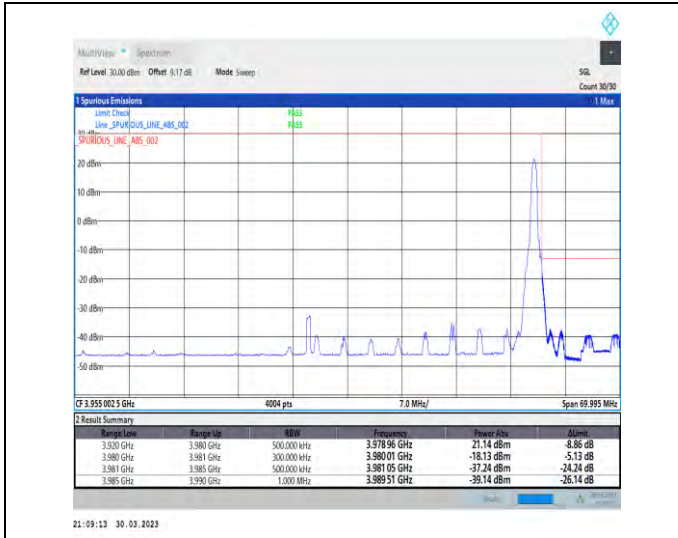
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1-N77-3700-3980-30-60-L-6-CP-QPSK-Outer_Full -162@0-Ant1-1--PASS-see graph



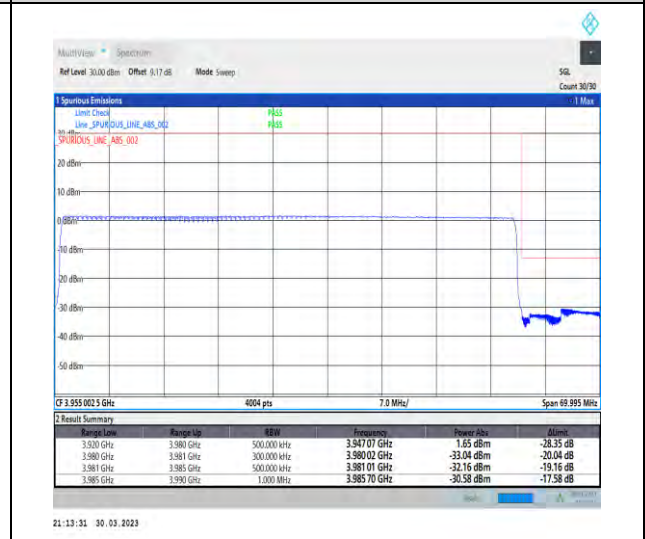
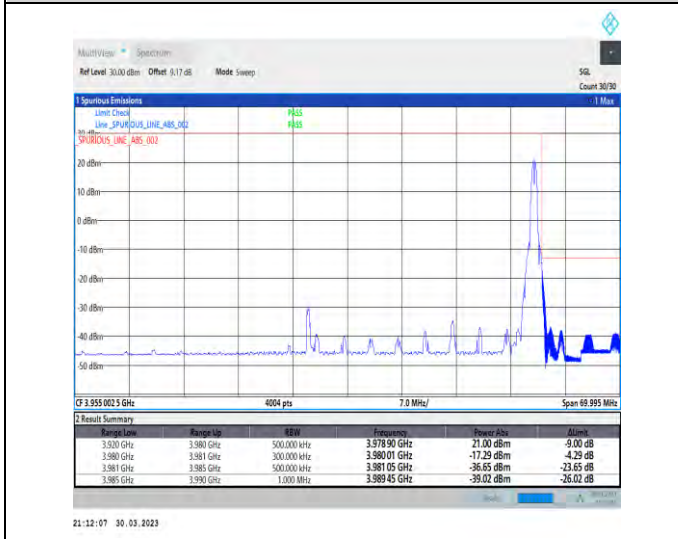
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1-N77-3700-3980-30-60-H-2-DFT-PI2BPSK-Edge_1R_B_Right-1@161-Ant1-1--PASS-see graph

1-N77-3700-3980-30-60-H-3-DFT-PI2BPSK-Outer_Full-162@0-Ant1-1--PASS-see graph



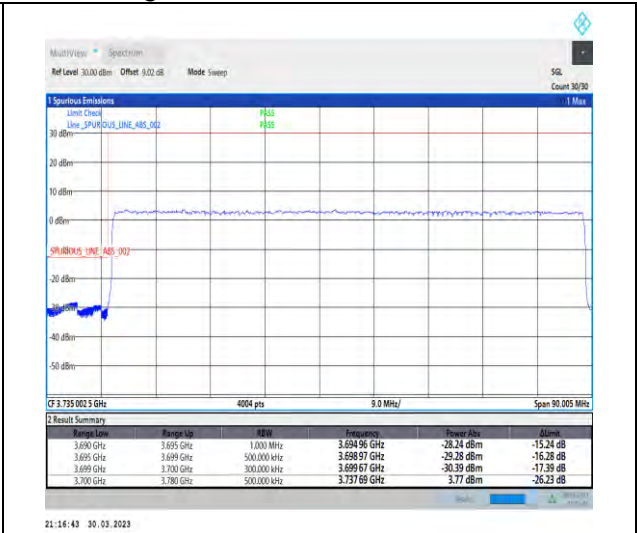
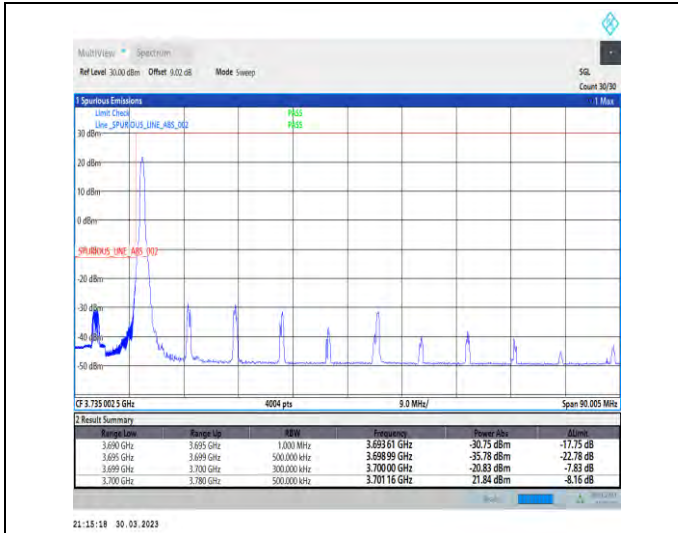
1-N77-3700-3980-30-60-H-5-CP-QPSK-Edge_1RB_Right-1@161-Ant1-1--PASS-see graph

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



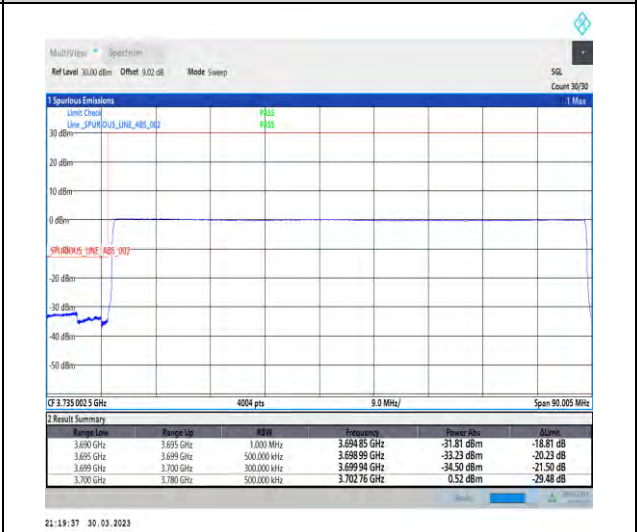
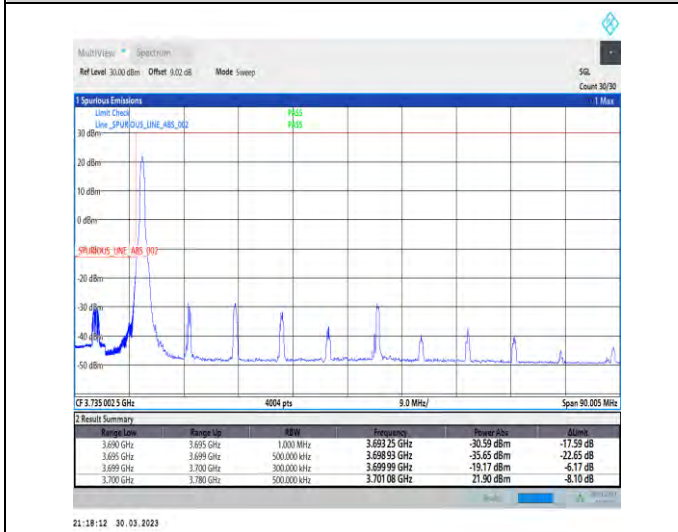
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1-N77-3700-3980-30-80-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N77-3700-3980-30-80-L-3-DFT-PI2BPSK-Outer_Full-216@0-Ant1-1--PASS-see graph



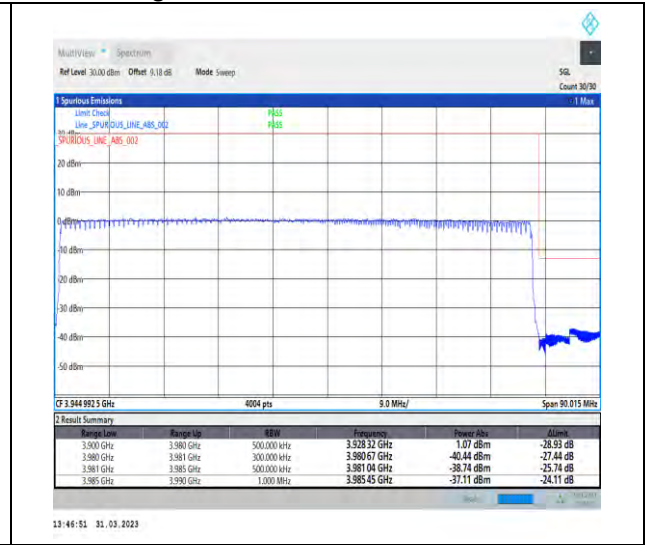
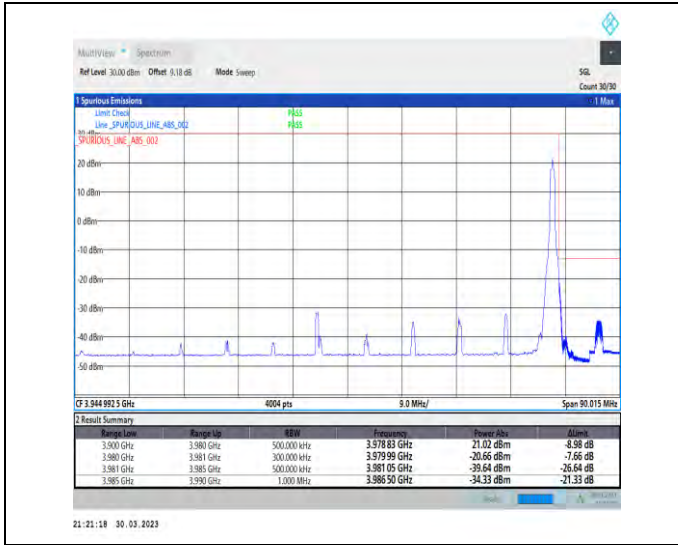
1-N77-3700-3980-30-80-L-4-CP-QPSK-Edge_1RB_Lef t-1@0-Ant1-1--PASS-see graph

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



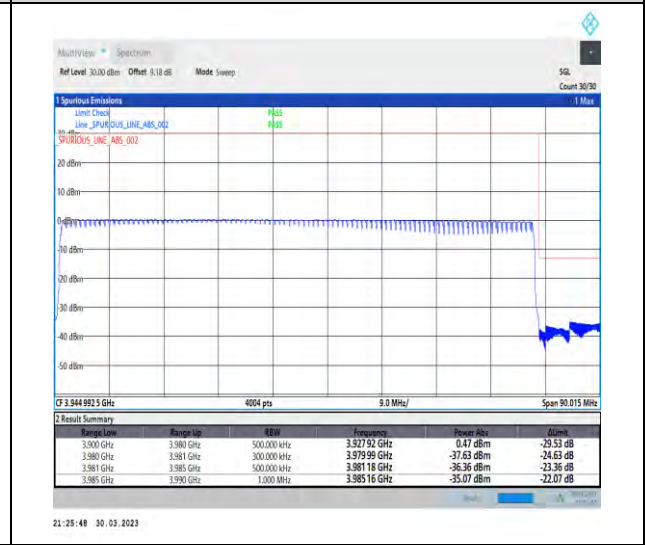
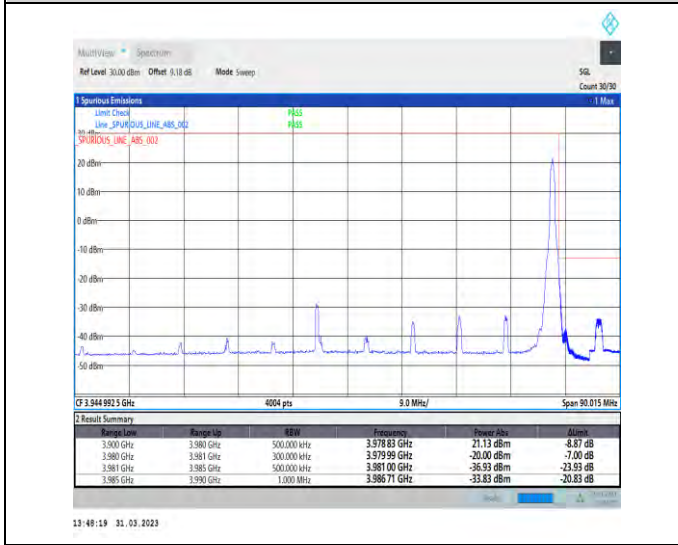
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1-N77-3700-3980-30-80-H-2-DFT-PI2BPSK-Edge_1R_B_Right-1@216-Ant1-1--PASS-see graph

1-N77-3700-3980-30-80-H-3-DFT-PI2BPSK-Outer_Full-216@0-Ant1-1--PASS-see graph



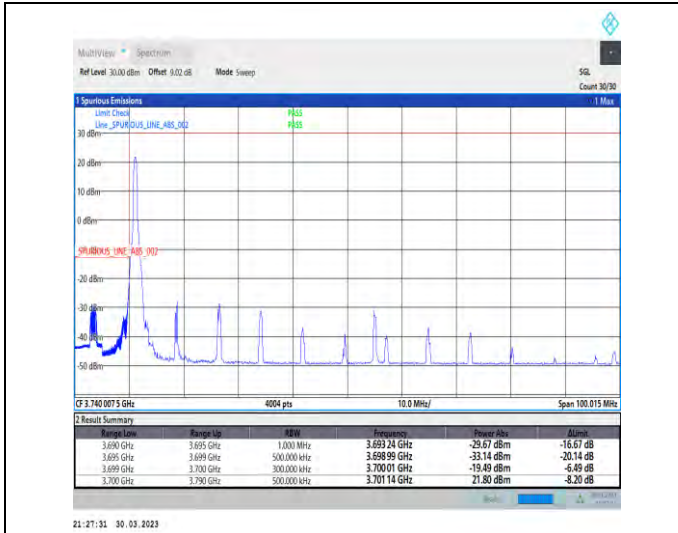
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1-N77-3700-3980-30-80-H-6-CP-QPSK-Outer_Full-217@0-Ant1-1--PASS-see graph

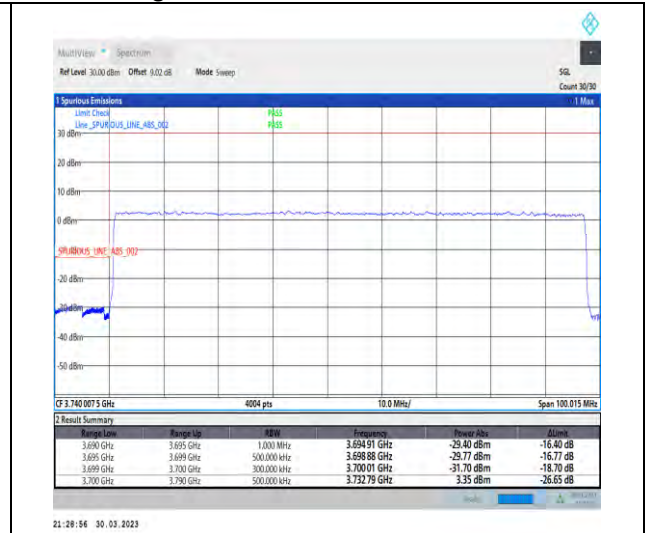


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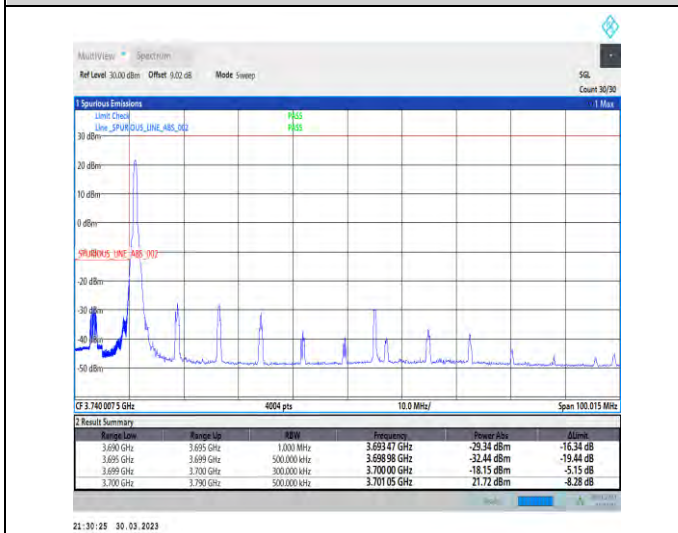
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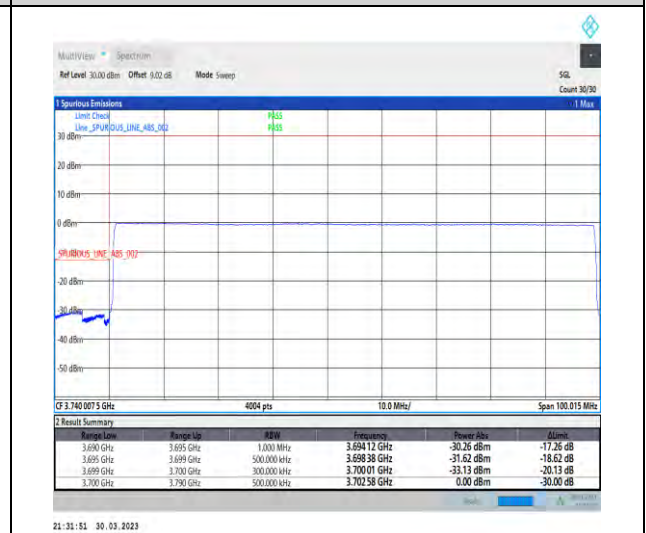
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_Left-1@0-Ant1-1--PASS-see graph



1-N77-3700-3980-30-90-L-3-DFT-PI2BPSK-Outer
_Full-240@0-Ant1-1--PASS-see graph



1-N77-3700-3980-30-90-L-4-CP-QPSK-Edge_1RB_Lef
t-1@0-Ant1-1--PASS-see graph

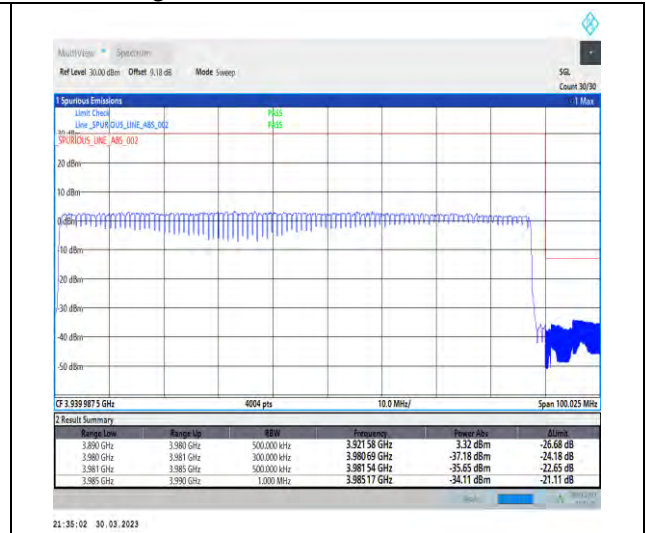
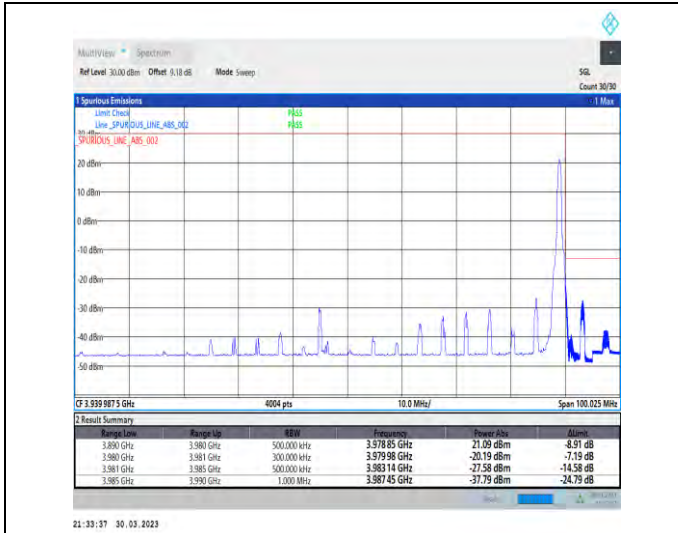


1-N77-3700-3980-30-90-L-6-CP-QPSK-Outer_Full
-245@0-Ant1-1--PASS-see graph



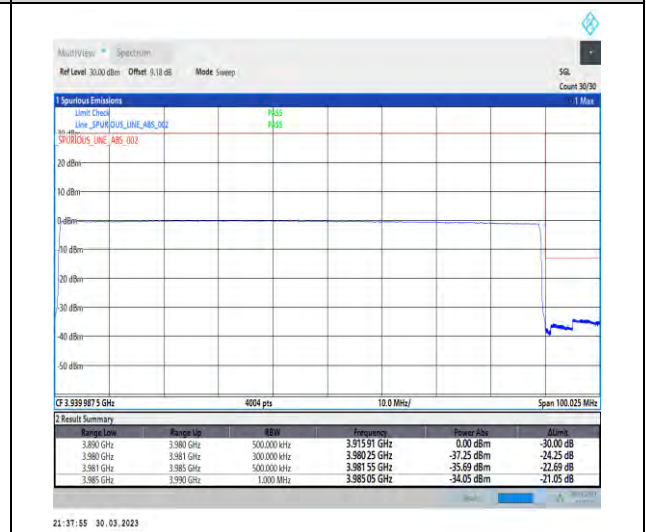
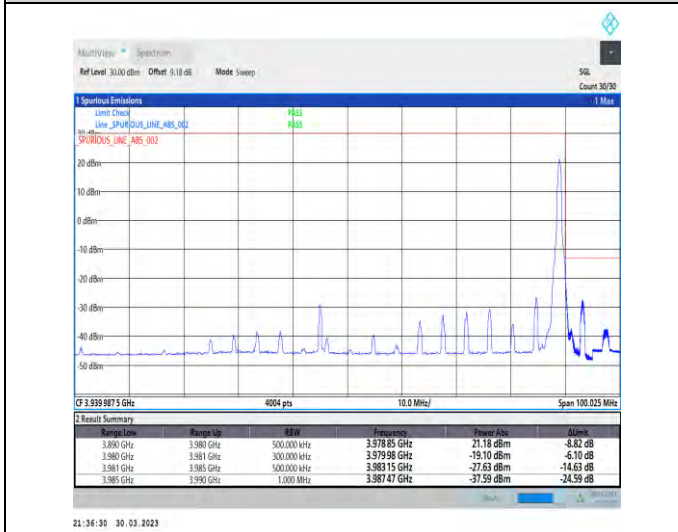
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1-N77-3700-3980-30-90-H-2-DFT-PI2BPSK-Edge_1R_B_Right-1@244-Ant1-1--PASS-see graph

1-N77-3700-3980-30-90-H-3-DFT-PI2BPSK-Outer_Full-240@0-Ant1-1--PASS-see graph



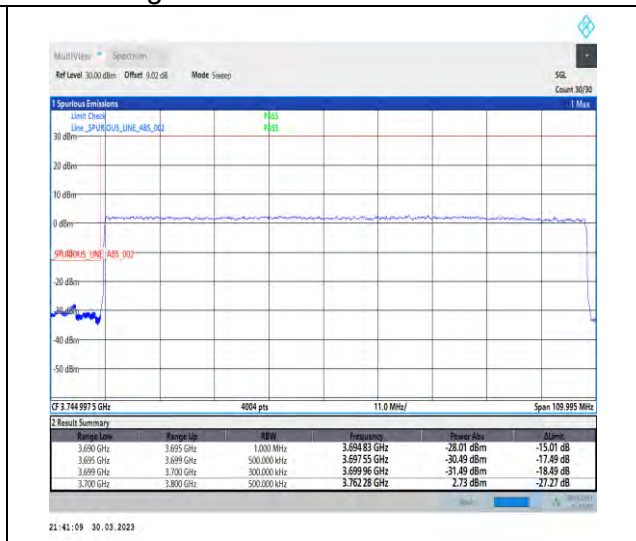
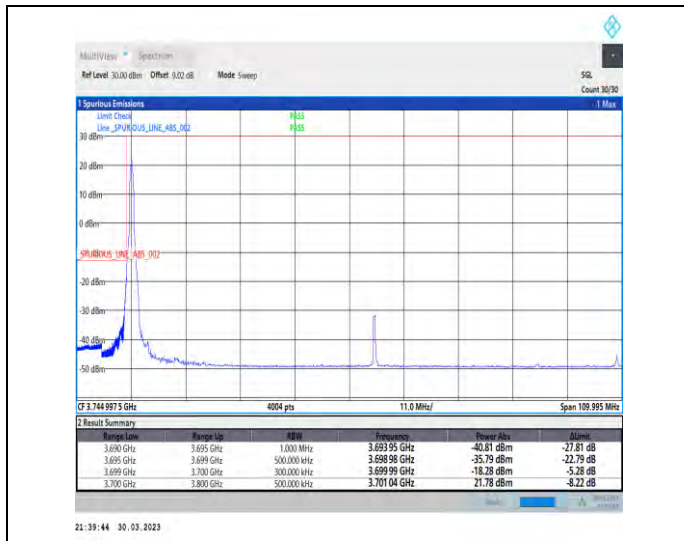
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1-N77-3700-3980-30-90-H-6-CP-QPSK-Outer_Full-245@0-Ant1-1--PASS-see graph



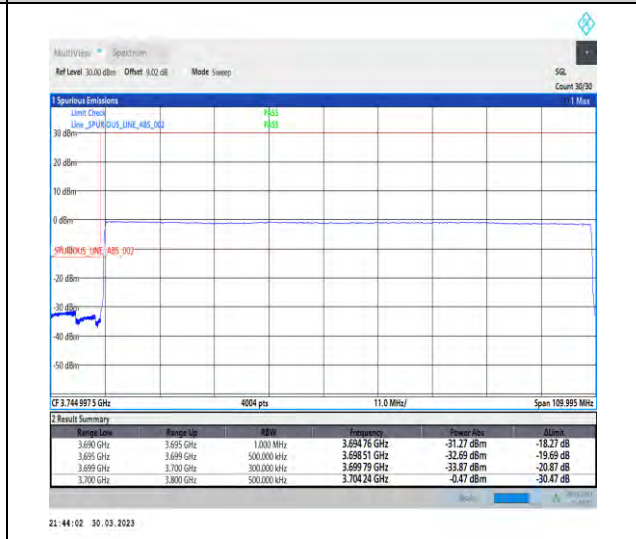
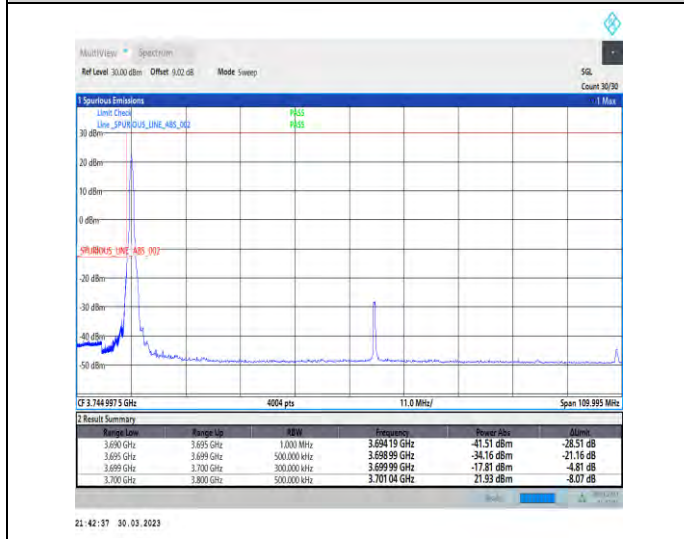
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1-N77-3700-3980-30-100-L-1-DFT-PI2BPSK-Edge_1R_B_Left-1@0-Ant1-1--PASS-see graph

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



1-N77-3700-3980-30-100-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

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

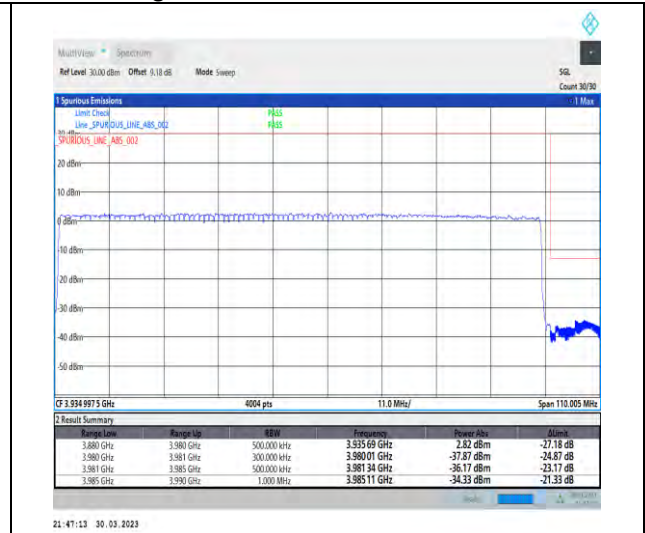


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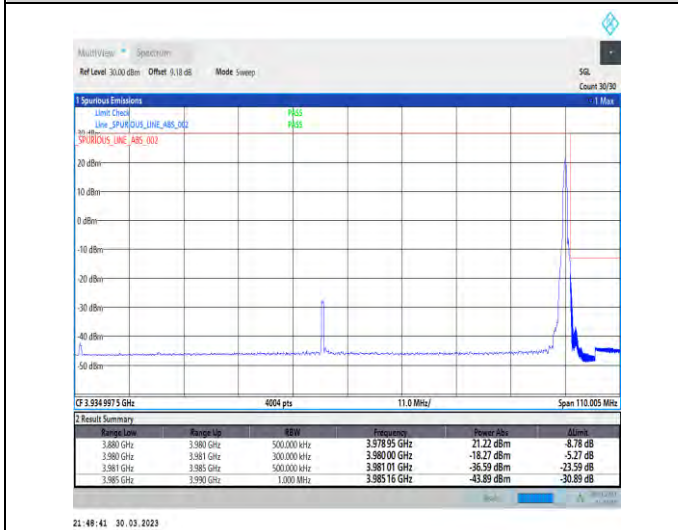
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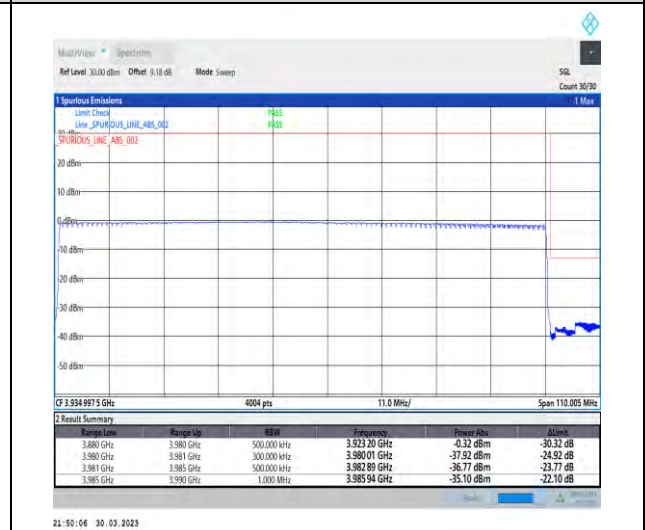
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1-N77-3700-3980-30-100-H-3-DFT-PI2BPSK-Outer_Full-270@0-Ant1-1--PASS-see graph



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



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



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Conducted Spurious Emission for SA

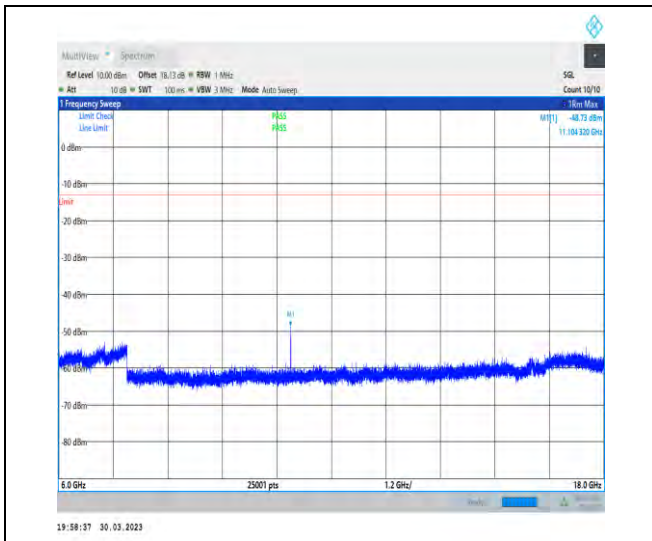
Test Graphs

<p>1-N77-3700-3980-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.13--92.90--43-PA SS</p>	<p>1-N77-3700-3980-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-30.00--85.51--33-PASS</p>
<p>1-N77-3700-3980-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-51.83--67.69--13-PASS</p>	<p>1-N77-3700-3980-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1-5395.50--37.72--13-PASS</p>

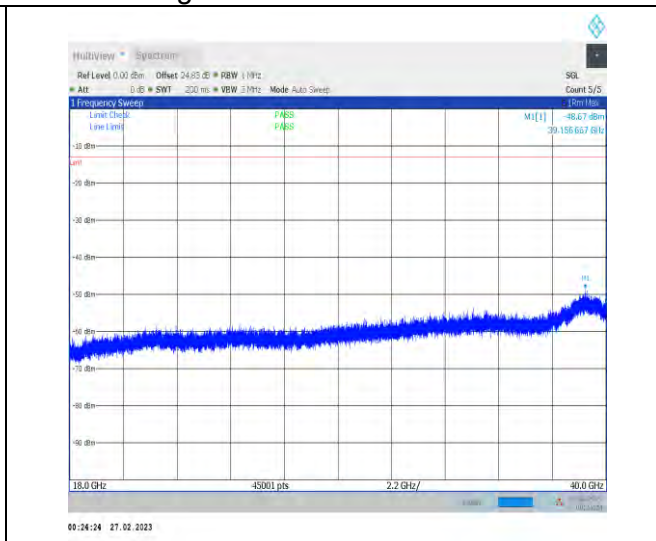


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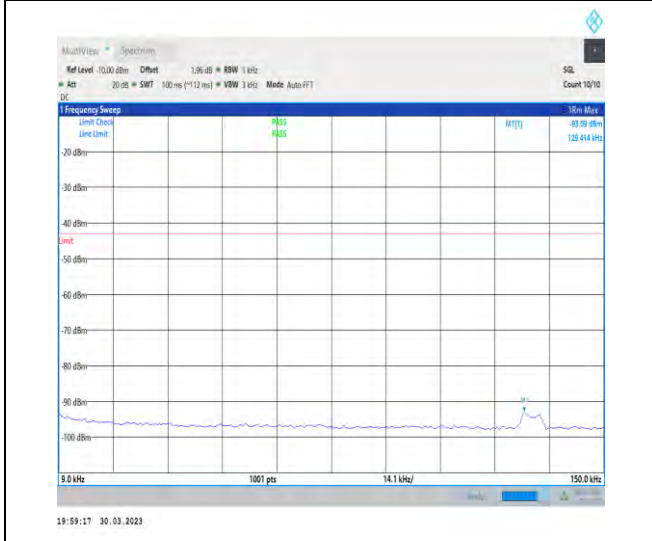
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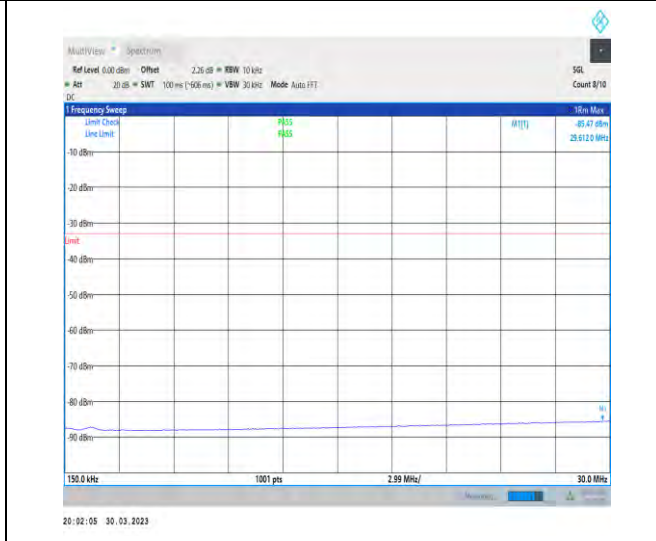
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1-N77-3700-3980-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00--55.59--13-PASS



1-N77-3700-3980-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.13--93.09--43-PASS

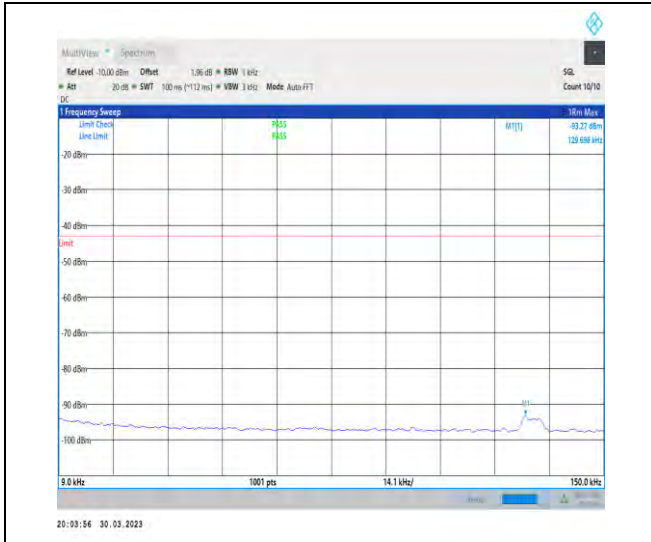


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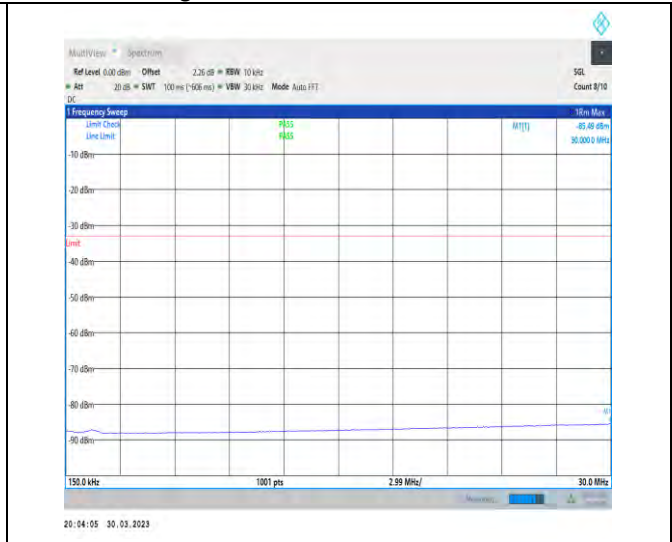


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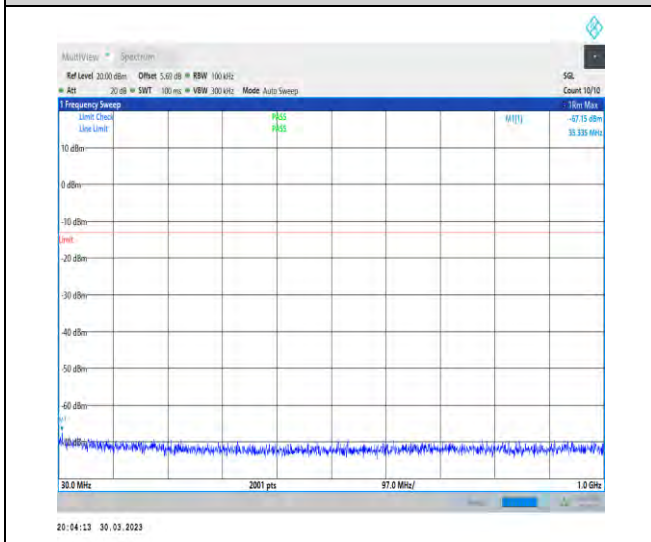
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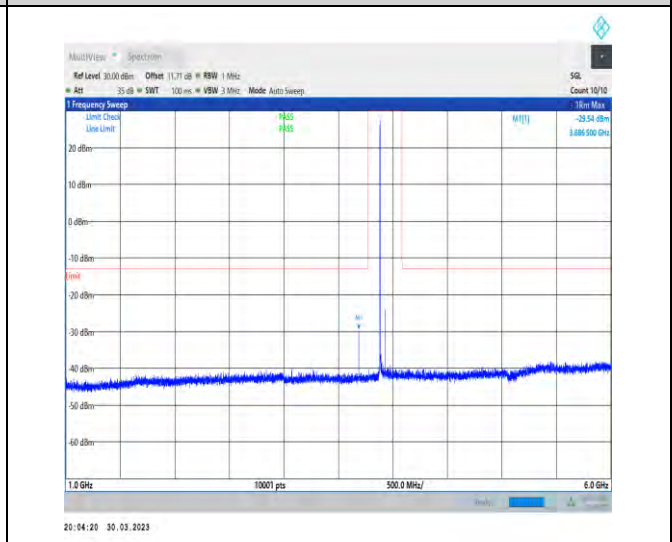
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1-N77-3700-3980-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-30.00--85.49--33-PASS



1-N77-3700-3980-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-35.34--67.15--13-PAS S

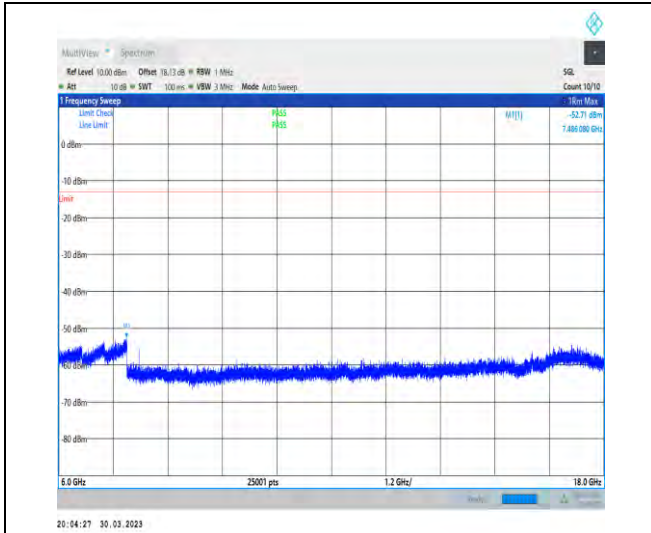


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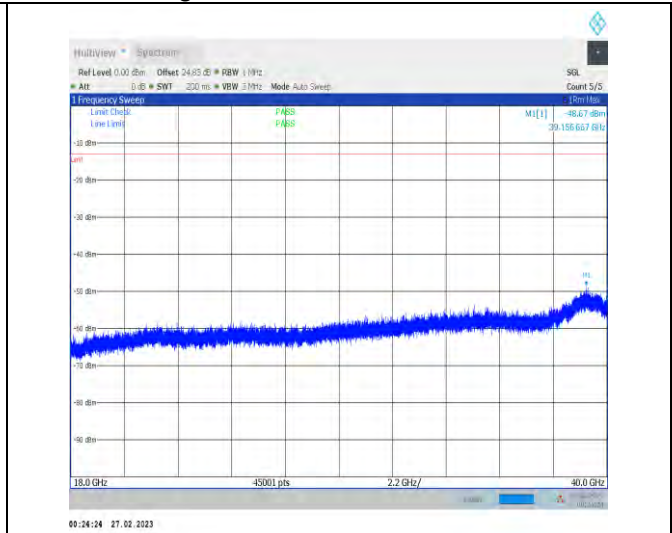


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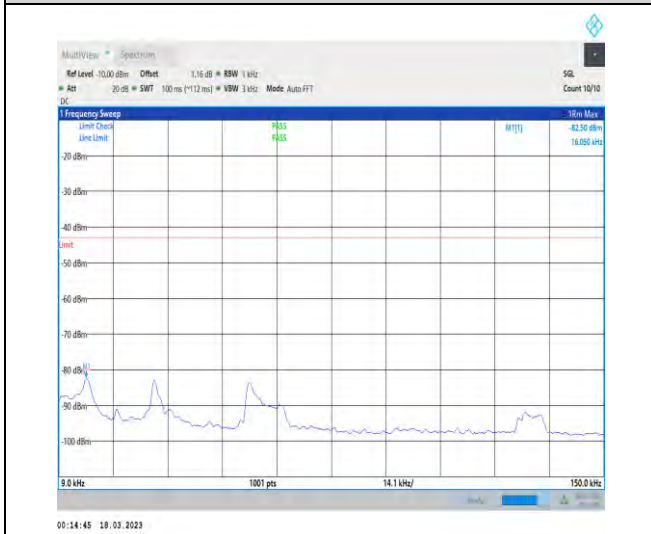
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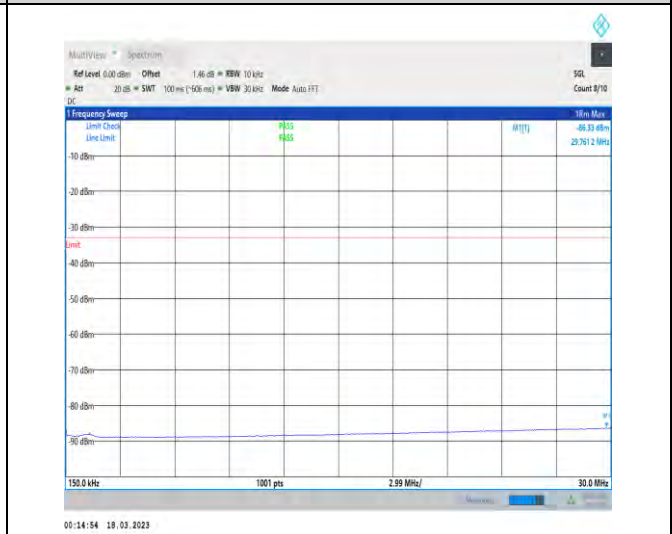
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3-PASS



1-N77-3700-3980-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00--56.16--1
3-PASS



1-N77-3700-3980-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.02--82.50--43-PA
SS

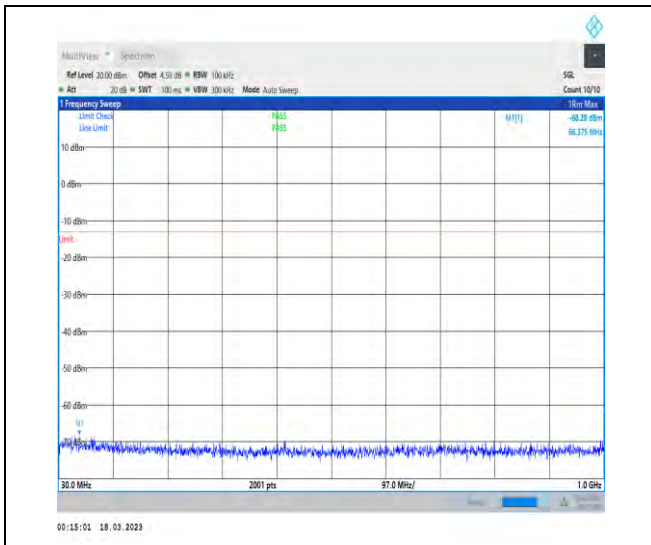


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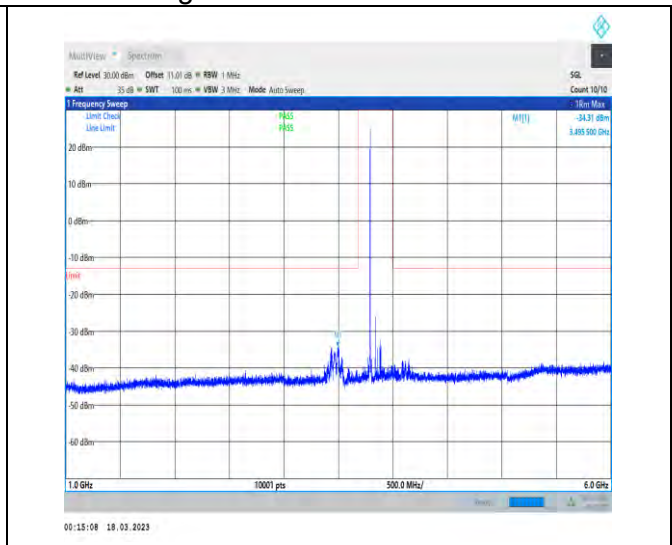


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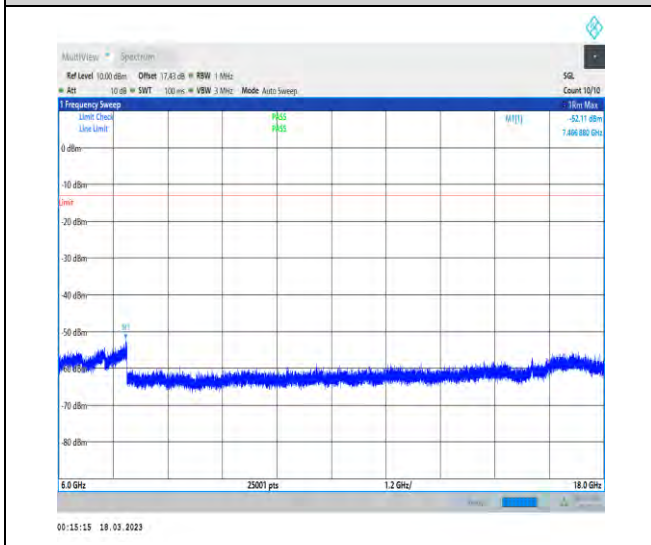
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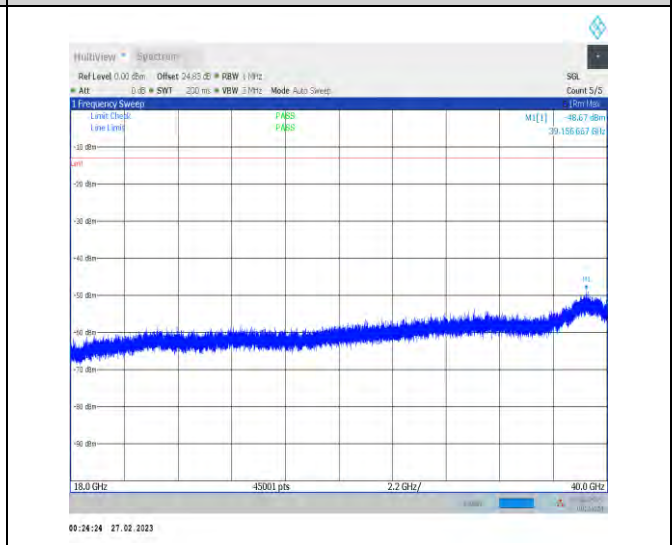
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S



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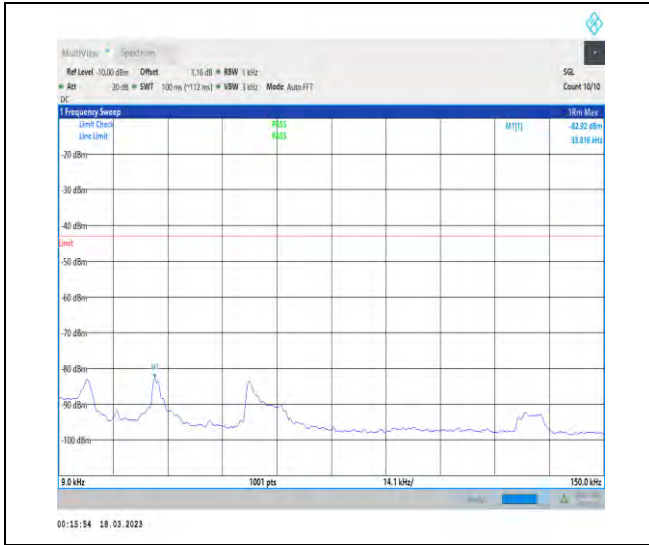


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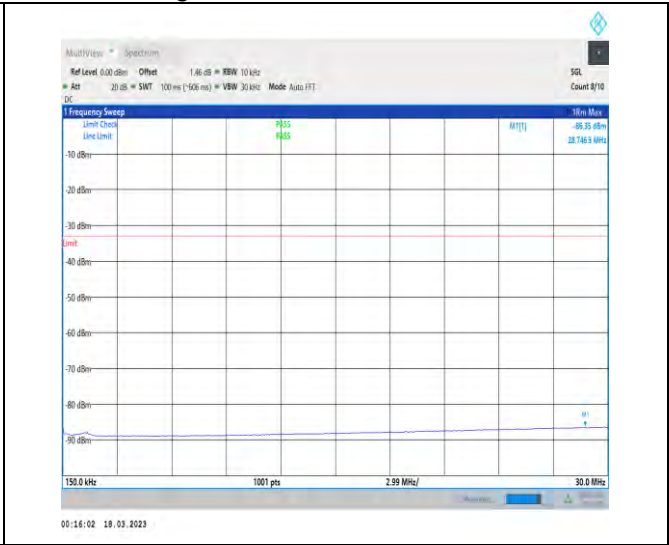


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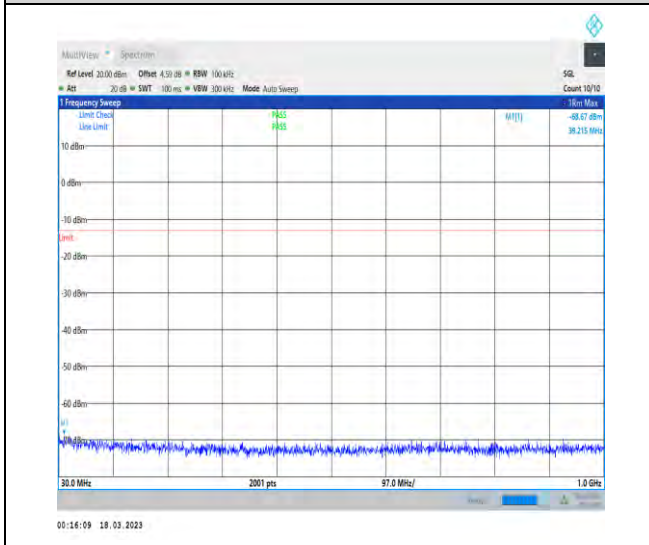
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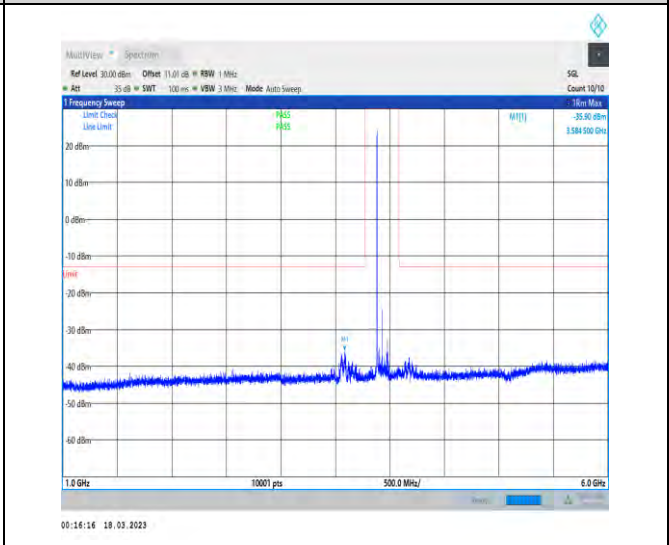
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1-N77-3700-3980-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-28.75--86.35--33-PASS



1-N77-3700-3980-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-39.22--68.67--13-PAS S



1-N77-3700-3980-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1-3584.50--35.90--13-P ASS



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Field Strength of Spurious Radiation

Test Band = NR 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	8945.6667	38.22	-38.81	38.54	-57.31	-13.00	44.31	102	357	Horizontal
2	13459.4167	33.68	-34.37	39.88	-56.08	-13.00	43.08	142	334	Horizontal
3	17329.1667	32.50	-31.77	39.92	-54.62	-13.00	41.62	265	110	Horizontal
4	7482.18	38.50	-41.66	36.49	-61.93	-13.00	48.93	284	185	Horizontal
5	11223.27	33.88	-35.10	39.38	-57.10	-13.00	44.10	142	90	Horizontal
6	14964.36	31.07	-34.32	39.24	-59.27	-13.00	46.27	255	90	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	46.05	-41.98	36.44	-54.75	-13.00	41.75	201	277	Vertical
2	9573.375	38.33	-37.87	38.54	-56.25	-13.00	43.25	174	168	Vertical
3	13588.7917	34.63	-34.36	39.95	-55.04	-13.00	42.04	142	37	Vertical
4	17290.3542	32.42	-31.79	39.76	-54.87	-13.00	41.87	265	92	Vertical
5	11223.27	32.73	-35.10	39.38	-58.25	-13.00	45.25	284	3	Vertical
6	14964.36	30.58	-34.32	39.24	-59.76	-13.00	46.76	145	186	Vertical



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Test Band = NR 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	9566.1875	38.22	-37.89	38.54	-56.38	-13.00	43.38	201	349	Horizontal
2	13606.0417	34.28	-34.44	39.96	-55.46	-13.00	42.46	142	75	Horizontal
3	17934.8333	32.68	-31.23	42.34	-51.47	-13.00	38.47	265	207	Horizontal
4	7590.18	37.66	-41.27	36.68	-62.19	-13.00	49.19	284	4	Horizontal
5	11835.27	32.47	-35.25	38.76	-59.27	-13.00	46.27	142	282	Horizontal
6	15180.36	31.30	-33.62	38.97	-58.61	-13.00	45.61	263	349	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	48.15	-41.30	36.66	-51.75	-13.00	38.75	102	260	Vertical
2	9057.3125	37.36	-38.68	38.59	-57.98	-13.00	44.98	285	359	Vertical
3	13700.4375	34.95	-34.89	40.02	-55.18	-13.00	42.18	254	243	Vertical
4	17698.6042	32.09	-31.06	41.39	-52.84	-13.00	39.84	142	4	Vertical
5	11835.27	32.33	-35.25	38.76	-59.41	-13.00	46.41	263	4	Vertical
6	15180.36	31.59	-33.62	38.97	-58.32	-13.00	45.32	224	356	Vertical



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Test Band = NR 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	9010.8333	37.34	-38.66	38.60	-57.98	-13.00	44.98	102	3	Horizontal
2	13448.3958	34.03	-34.48	39.87	-55.84	-13.00	42.84	285	71	Horizontal
3	17919.5	32.70	-31.21	42.28	-51.49	-13.00	38.49	263	323	Horizontal
4	7770.18	38.40	-41.00	37.04	-60.82	-13.00	47.82	254	197	Horizontal
5	11655.27	31.04	-35.22	38.94	-60.49	-13.00	47.49	142	285	Horizontal
6	15540.36	30.79	-33.41	38.50	-59.38	-13.00	46.38	263	268	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	9604.5208	38.47	-37.77	38.54	-56.02	-13.00	43.02	201	355	Vertical
2	13471.3958	33.78	-34.25	39.88	-55.85	-13.00	42.85	142	359	Vertical
3	17318.625	32.63	-31.77	39.87	-54.53	-13.00	41.53	142	277	Vertical
4	7770.18	38.01	-41.00	37.04	-61.21	-13.00	48.21	263	313	Vertical
5	11655.27	31.36	-35.22	38.94	-60.17	-13.00	47.17	284	92	Vertical
6	15540.36	31.14	-33.41	38.50	-59.03	-13.00	46.03	153	346	Vertical



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Test Band = NSA 2A-n77 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	9830.2083	40.39	-37.07	38.52	-53.43	-13.00	40.43	302	81	Horizontal
2	13014.2708	34.52	-34.83	39.61	-55.97	-13.00	42.97	254	3	Horizontal
3	17340.6667	32.46	-31.77	39.96	-54.61	-13.00	41.61	142	211	Horizontal
4	7482.18	38.93	-41.66	36.49	-61.50	-13.00	48.50	265	341	Horizontal
5	11223.27	32.69	-35.10	39.38	-58.29	-13.00	45.29	284	192	Horizontal
6	14964.36	31.23	-34.32	39.24	-59.11	-13.00	46.11	142	26	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	8730.0417	48.29	-39.16	38.30	-47.83	-13.00	34.83	185	119	Vertical
2	9830.2083	39.56	-37.07	38.52	-54.26	-13.00	41.26	263	266	Vertical
3	17937.2292	32.95	-31.23	42.35	-51.19	-13.00	38.19	254	138	Vertical
4	7482.18	39.89	-41.66	36.49	-60.54	-13.00	47.54	142	83	Vertical
5	11223.27	32.69	-35.10	39.38	-58.29	-13.00	45.29	263	12	Vertical
6	14964.36	31.19	-34.32	39.24	-59.15	-13.00	46.15	225	64	Vertical



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Test Band = NSA 2A-n77 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	9595.8958	37.86	-37.79	38.54	-56.65	-13.00	43.65	285	78	Horizontal
2	12983.6042	35.21	-34.89	39.58	-55.35	-13.00	42.35	241	26	Horizontal
3	17593.6667	32.24	-31.89	40.97	-53.93	-13.00	40.93	142	172	Horizontal
4	7590.18	37.96	-41.27	36.68	-61.89	-13.00	48.89	263	0	Horizontal
5	11835.27	31.97	-35.25	38.76	-59.77	-13.00	46.77	255	26	Horizontal
6	15180.36	30.84	-33.62	38.97	-59.07	-13.00	46.07	287	190	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	8730.0417	47.85	-39.16	38.30	-48.27	-13.00	35.27	214	234	Vertical
2	13445.5208	34.43	-34.51	39.87	-55.47	-13.00	42.47	142	357	Vertical
3	17946.3333	33.54	-31.24	42.39	-50.57	-13.00	37.57	263	27	Vertical
4	7590.18	38.09	-41.27	36.68	-61.76	-13.00	48.76	265	100	Vertical
5	11835.27	32.22	-35.25	38.76	-59.52	-13.00	46.52	284	270	Vertical
6	15180.36	31.39	-33.62	38.97	-58.52	-13.00	45.52	142	27	Vertical



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Test Band = NSA 2A-n77 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	9830.2083	40.39	-37.07	38.52	-53.43	-13.00	40.43	285	0	Horizontal
2	13626.6458	34.51	-34.54	39.98	-55.31	-13.00	42.31	241	357	Horizontal
3	17702.9167	32.15	-31.05	41.41	-52.74	-13.00	39.74	142	0	Horizontal
4	7770.18	38.36	-41.00	37.04	-60.86	-13.00	47.86	263	213	Horizontal
5	11655.27	30.84	-35.22	38.94	-60.69	-13.00	47.69	142	120	Horizontal
6	15540.36	30.94	-33.41	38.50	-59.23	-13.00	46.23	263	324	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	8730.0417	48.72	-39.16	38.30	-47.40	-13.00	34.40	285	137	Vertical
2	13454.625	34.47	-34.42	39.87	-55.34	-13.00	42.34	241	286	Vertical
3	17956.3958	32.40	-31.25	42.43	-51.69	-13.00	38.69	142	212	Vertical
4	7770.18	38.45	-41.00	37.04	-60.77	-13.00	47.77	263	63	Vertical
5	11655.27	31.28	-35.22	38.94	-60.25	-13.00	47.25	224	306	Vertical
6	15540.36	30.97	-33.41	38.50	-59.20	-13.00	46.20	185	306	Vertical



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Test Band = NSA 5A-n77 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	9830.2083	39.56	-37.07	38.52	-54.26	-13.00	41.26	296	63	Horizontal
2	13449.3542	34.15	-34.47	39.87	-55.71	-13.00	42.71	254	303	Horizontal
3	16971.2292	33.08	-31.79	38.58	-55.39	-13.00	42.39	142	286	Horizontal
4	7482.18	39.08	-41.66	36.49	-61.35	-13.00	48.35	263	303	Horizontal
5	11223.27	32.46	-35.10	39.38	-58.52	-13.00	45.52	221	119	Horizontal
6	14964.36	30.96	-34.32	39.24	-59.38	-13.00	46.38	142	229	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	8945.6667	38.05	-38.81	38.54	-57.48	-13.00	44.48	296	0	Vertical
2	13050.6875	34.27	-34.74	39.63	-56.10	-13.00	43.10	254	83	Vertical
3	17413.9792	32.19	-31.79	40.26	-54.61	-13.00	41.61	142	65	Vertical
4	7482.18	38.92	-41.66	36.49	-61.51	-13.00	48.51	225	138	Vertical
5	11223.27	33.23	-35.10	39.38	-57.75	-13.00	44.75	263	102	Vertical
6	14964.36	30.48	-34.32	39.24	-59.86	-13.00	46.86	228	270	Vertical



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Test Band = NSA 5A-n77 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	9013.2292	36.95	-38.66	38.60	-58.37	-13.00	45.37	185	1	Horizontal
2	9830.2083	39.45	-37.07	38.52	-54.37	-13.00	41.37	263	357	Horizontal
3	13586.875	34.30	-34.35	39.95	-55.36	-13.00	42.36	241	0	Horizontal
4	7590.18	37.73	-41.27	36.68	-62.12	-13.00	49.12	142	46	Horizontal
5	11835.27	32.12	-35.25	38.76	-59.62	-13.00	46.62	263	210	Horizontal
6	15180.36	32.53	-33.62	38.97	-57.38	-13.00	44.38	284	138	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	9284.9167	35.65	-38.36	38.57	-59.40	-13.00	46.40	162	249	Vertical
2	9830.2083	41.23	-37.07	38.52	-52.59	-13.00	39.59	241	1	Vertical
3	13328.6042	33.55	-35.07	39.80	-56.98	-13.00	43.98	142	304	Vertical
4	7590.18	38.39	-41.27	36.68	-61.46	-13.00	48.46	263	26	Vertical
5	11835.27	32.49	-35.25	38.76	-59.25	-13.00	46.25	225	4	Vertical
6	15180.36	30.51	-33.62	38.97	-59.40	-13.00	46.40	274	4	Vertical



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Test Band = NSA 5A-n77 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	9691.7292	36.26	-37.66	38.53	-58.13	-13.00	45.13	254	1	Horizontal
2	13895.4583	33.27	-34.36	40.14	-56.21	-13.00	43.21	142	323	Horizontal
3	17310.4792	32.58	-31.77	39.84	-54.61	-13.00	41.61	263	105	Horizontal
4	7770.18	37.56	-41.00	37.04	-61.66	-13.00	48.66	142	50	Horizontal
5	11655.27	30.80	-35.22	38.94	-60.73	-13.00	47.73	263	357	Horizontal
6	15540.36	31.36	-33.41	38.50	-58.81	-13.00	45.81	228	194	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	9830.2083	42.68	-37.07	38.52	-51.14	-13.00	38.14	142	0	Vertical
2	13594.5417	34.38	-34.39	39.96	-55.31	-13.00	42.31	296	252	Vertical
3	17828.9375	32.23	-30.97	41.92	-52.08	-13.00	39.08	265	12	Vertical
4	7770.18	37.92	-41.00	37.04	-61.30	-13.00	48.30	284	64	Vertical
5	11655.27	31.36	-35.22	38.94	-60.17	-13.00	47.17	142	1	Vertical
6	15540.36	31.30	-33.41	38.50	-58.87	-13.00	45.87	263	45	Vertical



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Test Band = NSA 7A-n77 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	9830.6875	39.34	-37.07	38.52	-54.48	-13.00	41.48	285	357	Horizontal
2	13624.25	34.47	-34.53	39.97	-55.34	-13.00	42.34	241	288	Horizontal
3	17688.5417	32.07	-31.15	41.35	-52.98	-13.00	39.98	142	161	Horizontal
4	7482.18	38.73	-41.66	36.49	-61.70	-13.00	48.70	263	178	Horizontal
5	11223.27	32.22	-35.10	39.38	-58.76	-13.00	45.76	221	66	Horizontal
6	14964.36	30.71	-34.32	39.24	-59.63	-13.00	46.63	142	66	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	9109.0625	36.00	-38.66	38.59	-59.33	-13.00	46.33	205	0	Vertical
2	9830.2083	40.17	-37.07	38.52	-53.65	-13.00	40.65	265	0	Vertical
3	13819.75	34.04	-35.14	40.09	-56.27	-13.00	43.27	241	84	Vertical
4	7482.18	38.76	-41.66	36.49	-61.67	-13.00	48.67	142	357	Vertical
5	11223.27	32.16	-35.10	39.38	-58.82	-13.00	45.82	263	104	Vertical
6	14964.36	31.01	-34.32	39.24	-59.33	-13.00	46.33	228	289	Vertical



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Test Band = NSA 7A-n77 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	9830.2083	40.80	-37.07	38.52	-53.02	-13.00	40.02	296	357	Horizontal
2	13455.1042	34.51	-34.41	39.87	-55.29	-13.00	42.29	265	327	Horizontal
3	16828.4375	33.83	-32.47	38.48	-55.42	-13.00	42.42	241	272	Horizontal
4	7590.18	38.00	-41.27	36.68	-61.85	-13.00	48.85	142	89	Horizontal
5	11835.27	31.85	-35.25	38.76	-59.89	-13.00	46.89	263	144	Horizontal
6	15180.36	30.43	-33.62	38.97	-59.48	-13.00	46.48	228	357	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	9015.625	37.65	-38.66	38.60	-57.67	-13.00	44.67	263	233	Vertical
2	9830.2083	41.09	-37.07	38.52	-52.73	-13.00	39.73	254	1	Vertical
3	13990.3333	33.16	-35.20	40.19	-57.11	-13.00	44.11	142	0	Vertical
4	7590.18	37.64	-41.27	36.68	-62.21	-13.00	49.21	263	141	Vertical
5	11835.27	32.26	-35.25	38.76	-59.48	-13.00	46.48	145	157	Vertical
6	15180.36	31.19	-33.62	38.97	-58.72	-13.00	45.72	263	5	Vertical



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Test Band = NSA 7A-n77 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	9723.3542	33.91	-37.50	38.53	-60.32	-13.00	47.32	296	139	Horizontal
2	13645.8125	34.23	-34.63	39.99	-55.67	-13.00	42.67	265	104	Horizontal
3	17667.4583	32.43	-31.32	41.27	-52.88	-13.00	39.88	284	270	Horizontal
4	7770.18	38.53	-41.00	37.04	-60.69	-13.00	47.69	142	198	Horizontal
5	11655.27	31.30	-35.22	38.94	-60.23	-13.00	47.23	263	251	Horizontal
6	15540.36	30.97	-33.41	38.50	-59.20	-13.00	46.20	228	289	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	9830.2083	40.81	-37.07	38.52	-53.01	-13.00	40.01	126	0	Vertical
2	13696.125	34.20	-34.87	40.02	-55.91	-13.00	42.91	265	0	Vertical
3	17846.1875	32.21	-31.02	41.98	-52.08	-13.00	39.08	241	267	Vertical
4	7770.18	38.14	-41.00	37.04	-61.08	-13.00	48.08	142	0	Vertical
5	11655.27	31.95	-35.22	38.94	-59.58	-13.00	46.58	263	248	Vertical
6	15540.36	31.26	-33.41	38.50	-58.91	-13.00	45.91	228	119	Vertical



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Test Band = NSA 41A-n77 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	9830.2083	39.64	-37.07	38.52	-54.18	-13.00	41.18	296	266	Horizontal
2	13448.875	34.13	-34.48	39.87	-55.74	-13.00	42.74	265	0	Horizontal
3	17419.7292	31.84	-31.80	40.28	-54.94	-13.00	41.94	241	0	Horizontal
4	7482.18	39.50	-41.66	36.49	-60.93	-13.00	47.93	142	193	Horizontal
5	11223.27	32.25	-35.10	39.38	-58.73	-13.00	45.73	263	81	Horizontal
6	14964.36	30.47	-34.32	39.24	-59.87	-13.00	46.87	228	211	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	8742.5	37.31	-39.12	38.32	-58.76	-13.00	45.76	152	228	Vertical
2	13441.2083	34.26	-34.55	39.86	-55.69	-13.00	42.69	265	155	Vertical
3	17272.625	32.40	-31.83	39.69	-55.00	-13.00	42.00	241	304	Vertical
4	7482.18	38.73	-41.66	36.49	-61.70	-13.00	48.70	142	155	Vertical
5	11223.27	32.71	-35.10	39.38	-58.27	-13.00	45.27	286	26	Vertical
6	14964.36	31.08	-34.32	39.24	-59.26	-13.00	46.26	228	340	Vertical



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Test Band = NSA 41A-n77 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	9830.2083	39.99	-37.07	38.52	-53.83	-13.00	40.83	185	272	Horizontal
2	13705.2292	33.95	-34.91	40.02	-56.20	-13.00	43.20	263	197	Horizontal
3	17685.6667	32.19	-31.17	41.34	-52.90	-13.00	39.90	254	197	Horizontal
4	7590.18	39.00	-41.27	36.68	-60.85	-13.00	47.85	142	27	Horizontal
5	11835.27	32.65	-35.25	38.76	-59.09	-13.00	46.09	296	65	Horizontal
6	15180.36	30.66	-33.62	38.97	-59.25	-13.00	46.25	224	197	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	9830.2083	39.14	-37.07	38.52	-54.68	-13.00	41.68	196	0	Vertical
2	13595.0208	34.63	-34.39	39.96	-55.06	-13.00	42.06	265	216	Vertical
3	17917.1042	33.34	-31.20	42.27	-50.85	-13.00	37.85	284	47	Vertical
4	7590.18	37.94	-41.27	36.68	-61.91	-13.00	48.91	142	357	Vertical
5	11835.27	31.67	-35.25	38.76	-60.07	-13.00	47.07	225	1	Vertical
6	15180.36	31.13	-33.62	38.97	-58.78	-13.00	45.78	286	64	Vertical



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Test Band = NSA 41A-n77 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	9830.2083	40.82	-37.07	38.52	-53.00	-13.00	40.00	296	267	Horizontal
2	13444.0833	34.37	-34.52	39.87	-55.55	-13.00	42.55	265	0	Horizontal
3	17848.1042	32.35	-31.02	41.99	-51.94	-13.00	38.94	241	306	Horizontal
4	7770.18	38.16	-41.00	37.04	-61.06	-13.00	48.06	142	121	Horizontal
5	11655.27	31.84	-35.22	38.94	-59.69	-13.00	46.69	263	44	Horizontal
6	15540.36	31.05	-33.41	38.50	-59.12	-13.00	46.12	288	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	9830.2083	41.54	-37.07	38.52	-52.28	-13.00	39.28	254	0	Vertical
2	13583.0417	34.46	-34.34	39.95	-55.19	-13.00	42.19	174	212	Vertical
3	17642.5417	32.41	-31.53	41.17	-53.21	-13.00	40.21	142	1	Vertical
4	7770.18	38.35	-41.00	37.04	-60.87	-13.00	47.87	263	0	Vertical
5	11655.27	31.06	-35.22	38.94	-60.47	-13.00	47.47	226	0	Vertical
6	15540.36	31.08	-33.41	38.50	-59.09	-13.00	46.09	287	157	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

Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-6.400000	-0.001667	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-7.900000	-0.002057	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-4.900000	-0.001276	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	-16.200000	-0.004219	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	-3.400000	-0.000885	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	8.700000	0.002266	PASS

Frequency Error VS. Temperature

Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	5.500000	0.001432	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-2.900000	-0.000755	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-4.200000	-0.001094	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-1.900000	-0.000495	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	13.900000	0.003620	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	9.300000	0.002422	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-3.400000	-0.000885	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	3.900000	0.001016	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	7.200000	0.001875	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	-7.600000	-0.001979	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-20	-6.700000	-0.001745	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	-11.200000	-0.002917	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	-0.200000	-0.000052	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	10	0.600000	0.000156	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	20	-0.300000	-0.000078	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	-14.400000	-0.003750	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	-6.600000	-0.001719	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	-14.200000	-0.003698	PASS

---End of Attachment---



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