



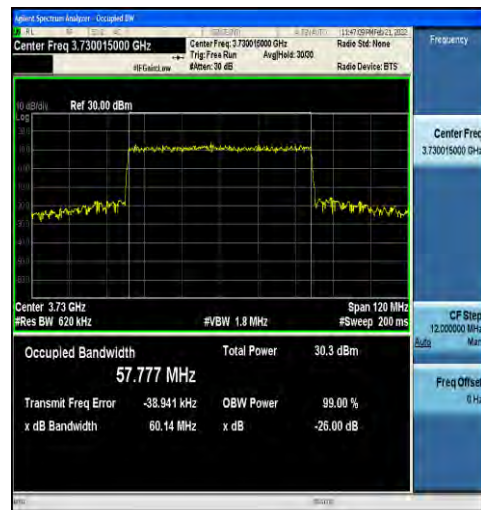
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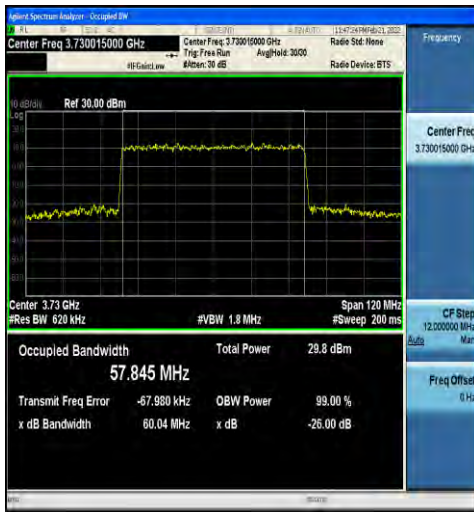


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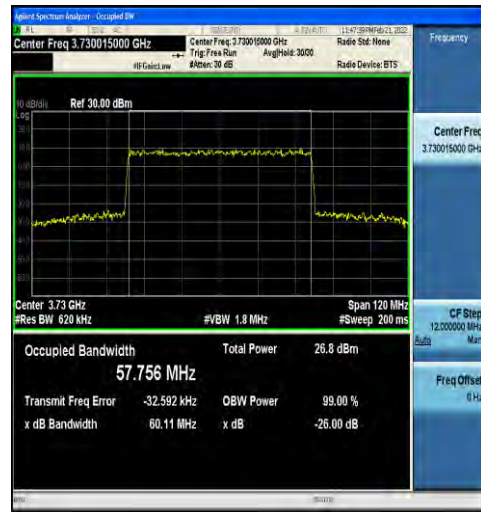


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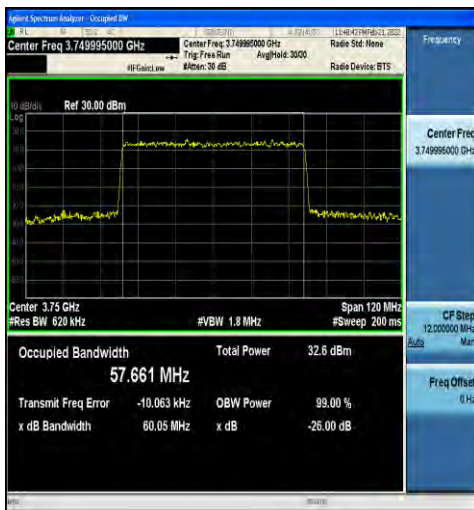
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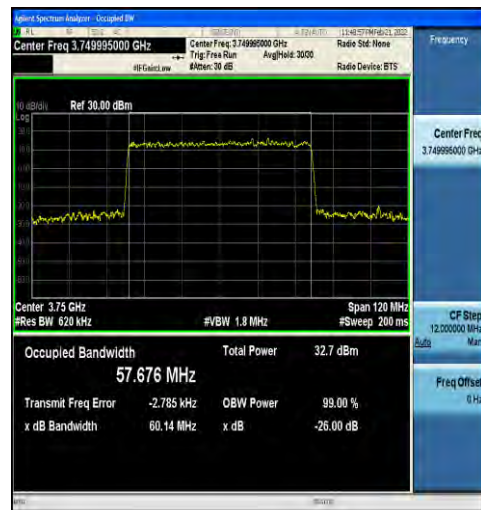
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1-N78-3700-3800-30-60-M-1-DFT-QPSK-Outer\_Full-162@0-Ant1-57.661-60.05-<math>\leq 60</math>-PASS



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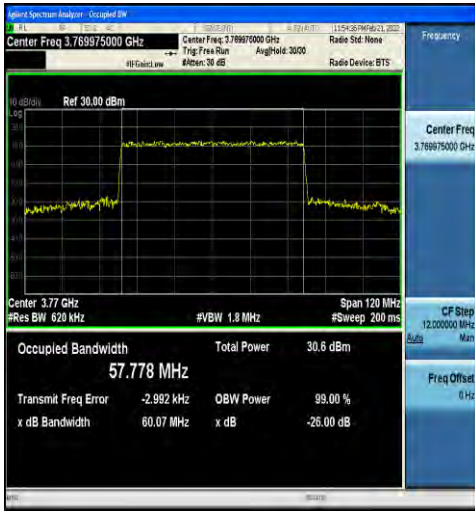
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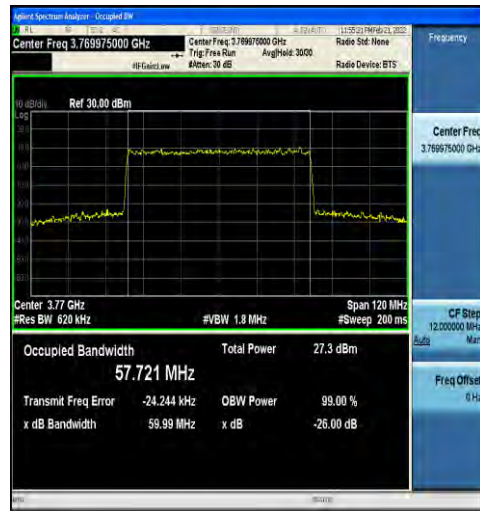
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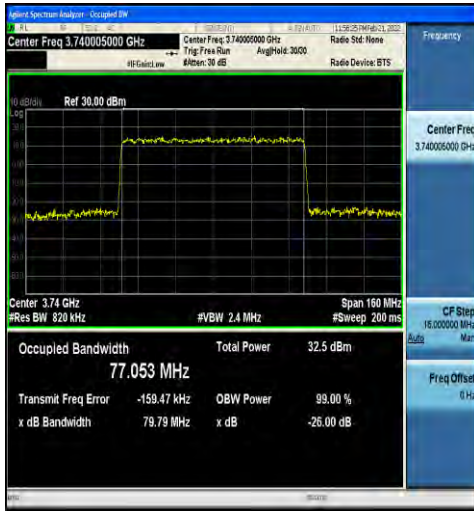
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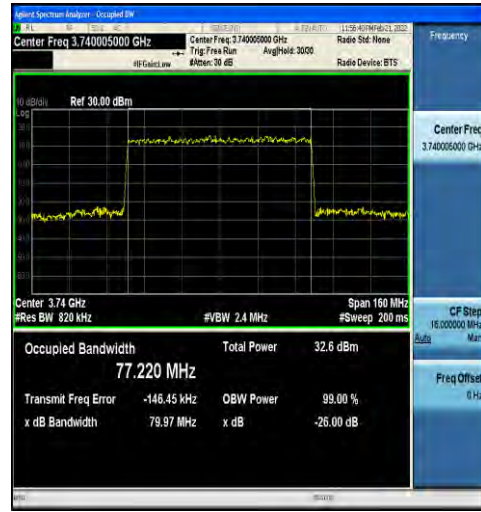
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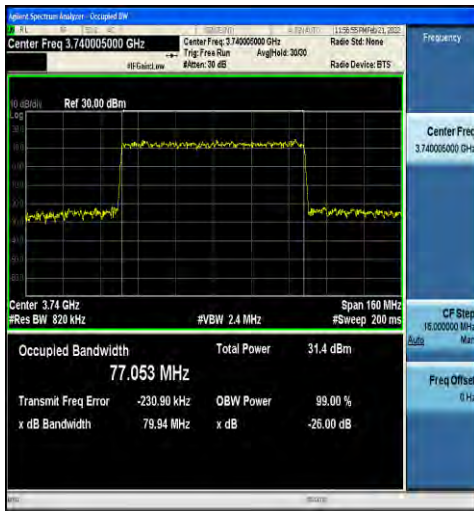
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1-N78-3700-3800-30-80-L-1-DFT-QPSK-Outer\_Full-216@0-Ant1-77.053-79.79-≤80-PASS



1-N78-3700-3800-30-80-L-2-DFT-PI2BPSK-Outer\_Full-216@0-Ant1-77.220-79.97-≤80-PASS



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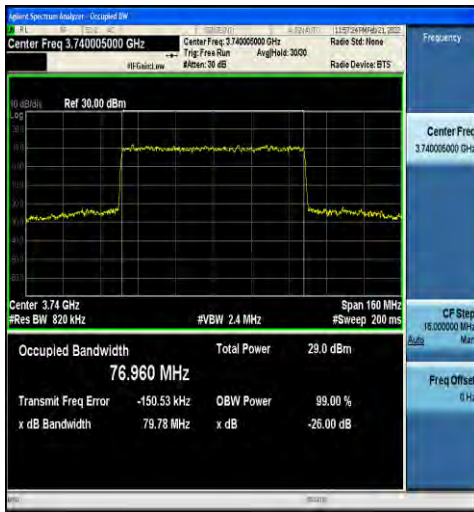


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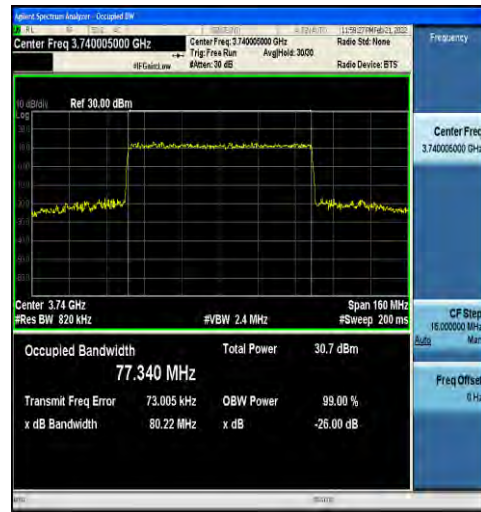


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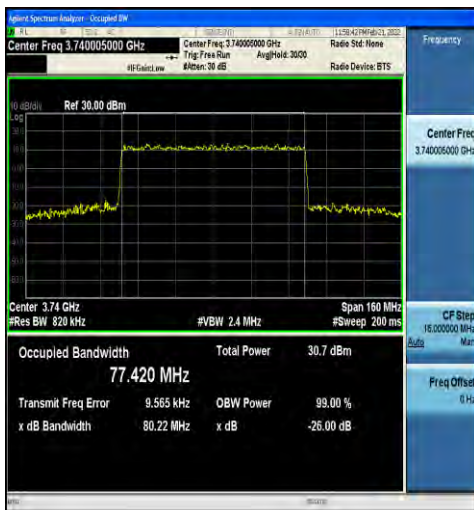
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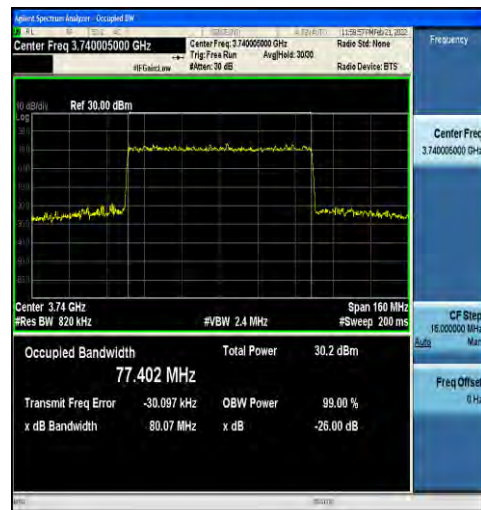
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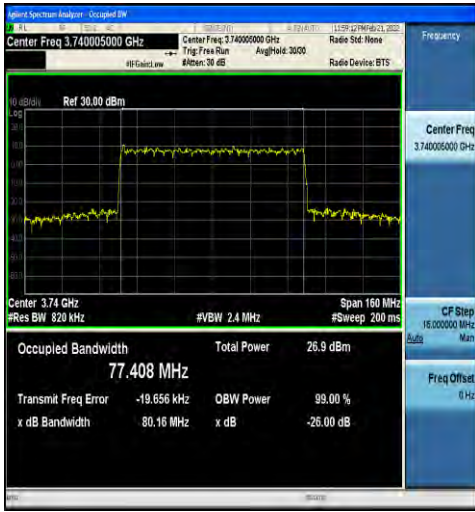
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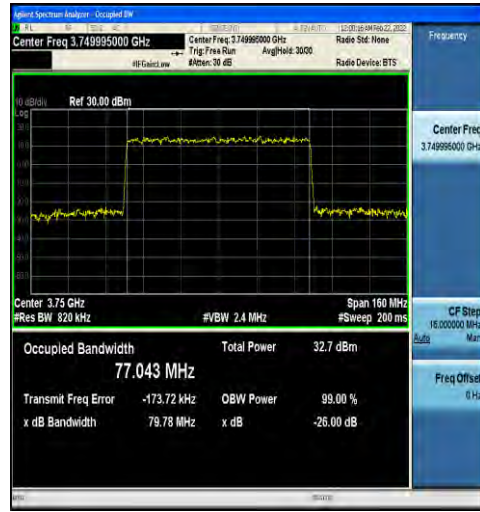
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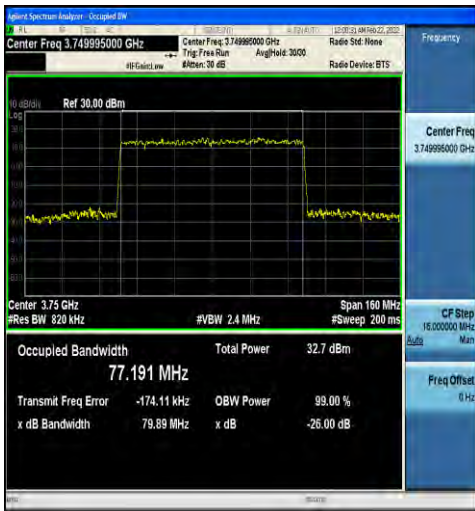




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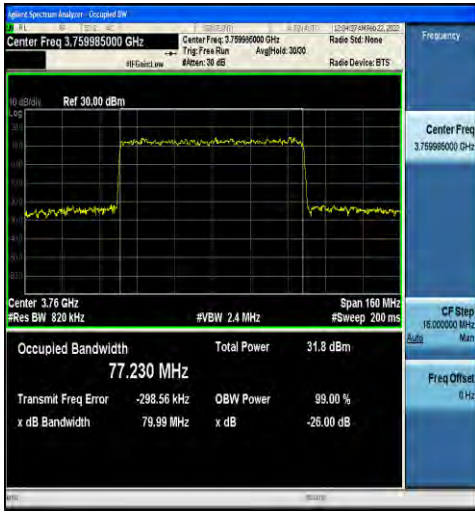
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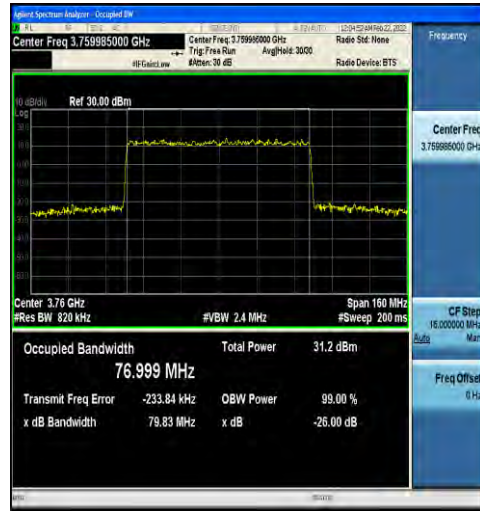
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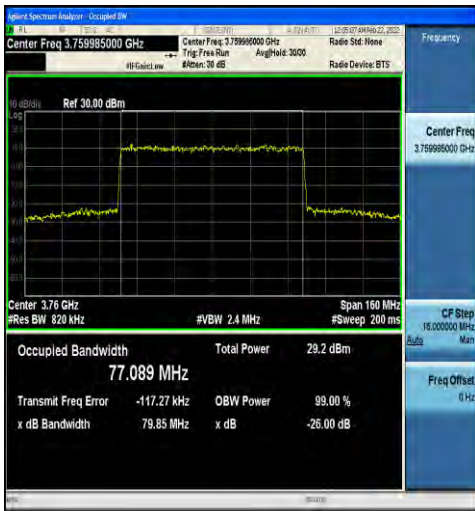




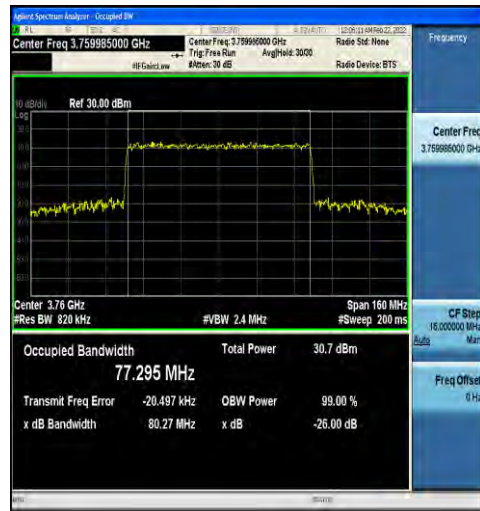
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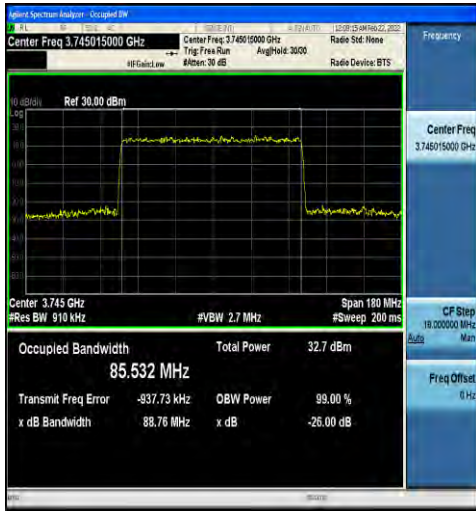
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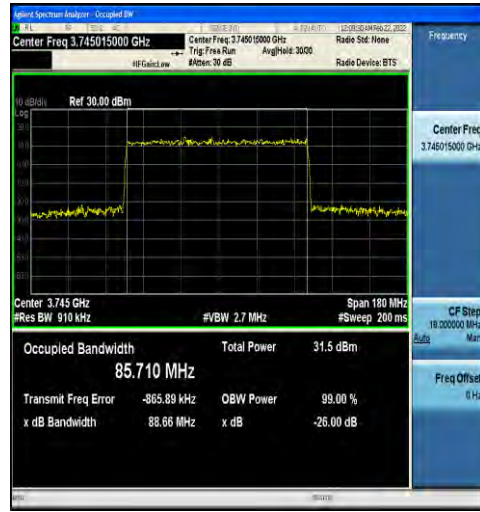
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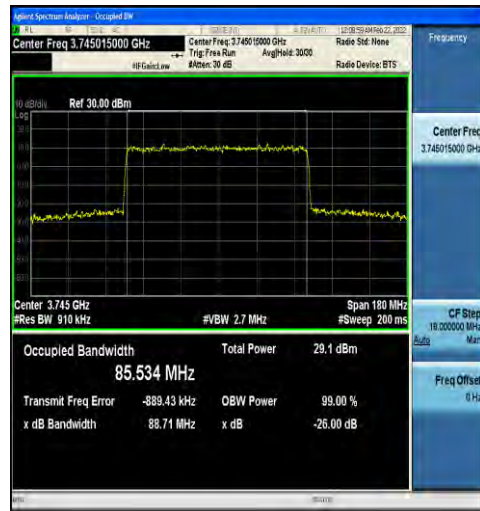
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1-N78-3700-3800-30-90-L-5-DFT-256QAM-Outer\_Full-240@0-Ant1-85.534-88.71-<math>\leq 90</math>-PASS



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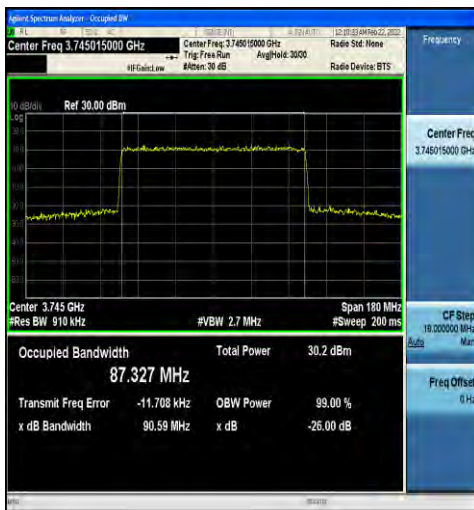
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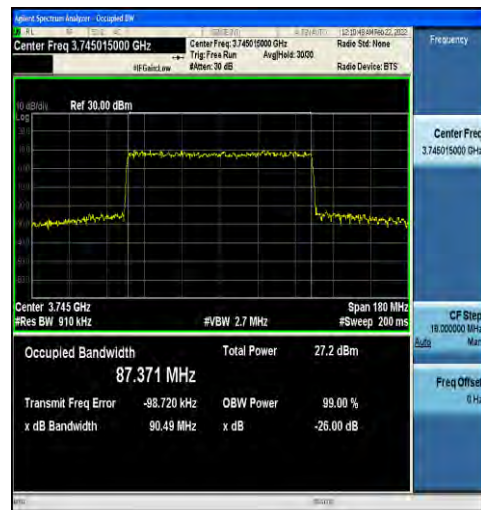
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1-N78-3700-3800-30-90-L-7-CP-16QAM-Outer\_Full-245@0-Ant1-87.263-90.41- $\leq 90$ -PASS



1-N78-3700-3800-30-90-L-8-CP-64QAM-Outer\_Full-245@0-Ant1-87.327-90.59- $\leq 90$ -PASS



1-N78-3700-3800-30-90-L-9-CP-256QAM-Outer\_Full-245@0-Ant1-87.371-90.49- $\leq 90$ -PASS

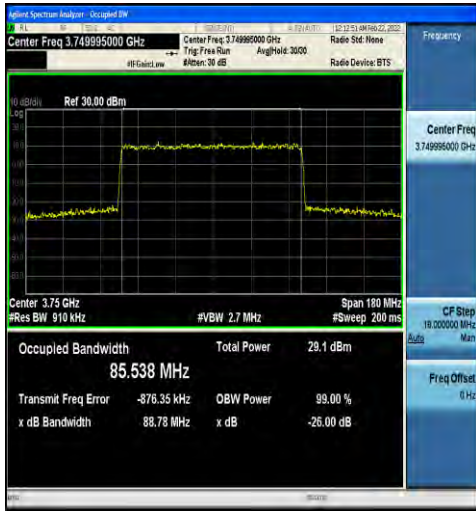


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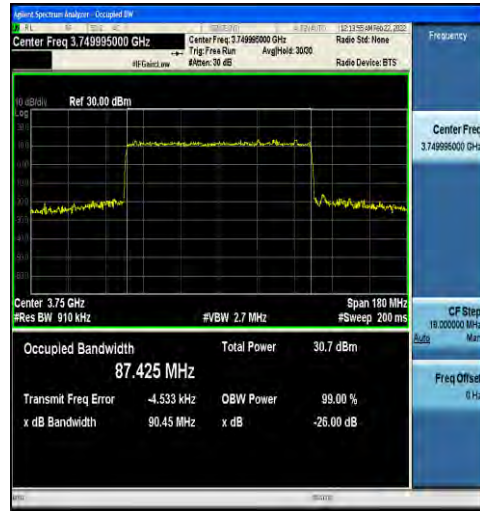
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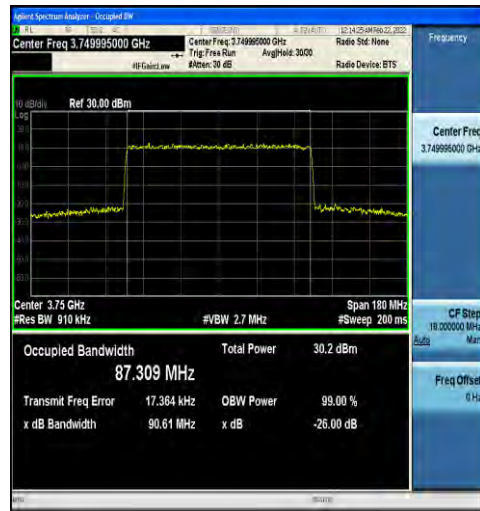
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1-N78-3700-3800-30-90-M-6-CP-QPSK-Outer\_Full-245@0-Ant1-87.425-90.45-≤90-PASS



1-N78-3700-3800-30-90-M-7-CP-16QAM-Outer\_Full-245@0-Ant1-87.239-90.30-≤90-PASS



1-N78-3700-3800-30-90-M-8-CP-64QAM-Outer\_Full-245@0-Ant1-87.309-90.61-≤90-PASS



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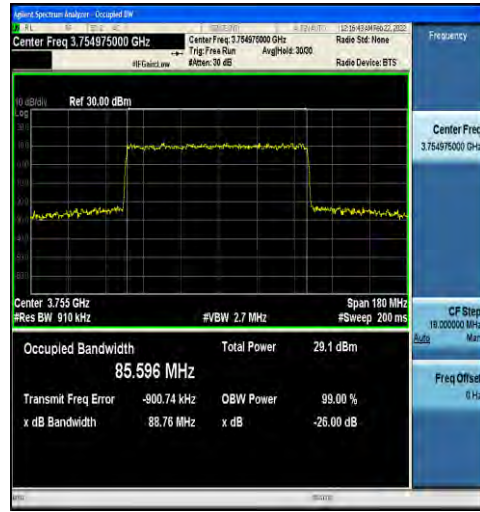
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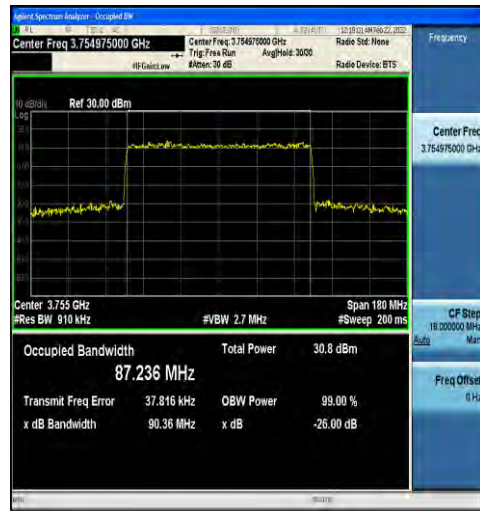
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1-N78-3700-3800-30-90-H-5-DFT-256QAM-Outer\_Full-240@0-Ant1-85.596-88.76- $\leq 90$ -PASS



1-N78-3700-3800-30-90-H-6-CP-QPSK-Outer\_Full-245@0-Ant1-87.474-90.39- $\leq 90$ -PASS



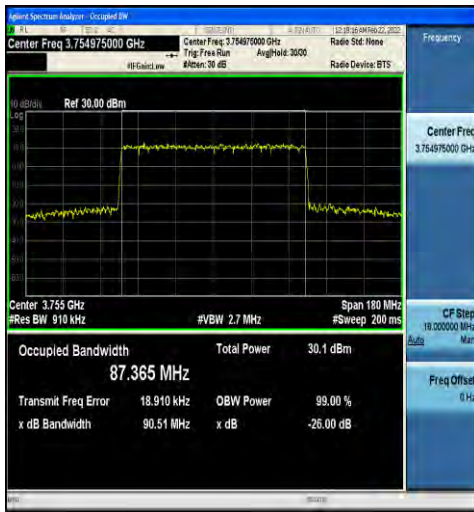
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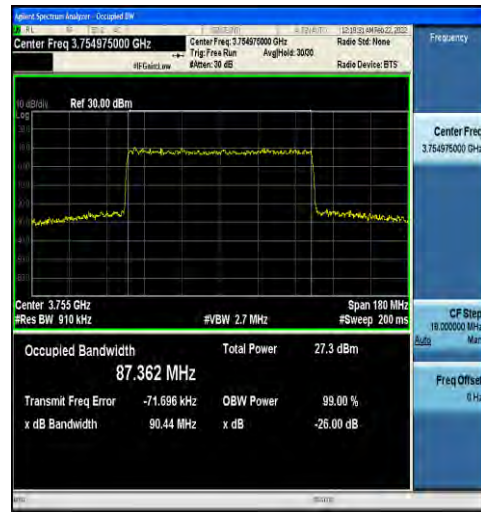
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1-N78-3700-3800-30-90-H-8-CP-64QAM-Outer\_Full-245@0-Ant1-87.365-90.51-≤90-PASS



1-N78-3700-3800-30-90-H-9-CP-256QAM-Outer\_Ful-245@0-Ant1-87.362-90.44-≤90-PASS



1-N78-3700-3800-30-100-L-1-DFT-QPSK-Outer\_Full-270@0-Ant1-96.076-99.75-≤100-PASS



1-N78-3700-3800-30-100-L-2-DFT-PI2BPSK-Outer\_Full-270@0-Ant1-96.232-99.67-≤100-PASS



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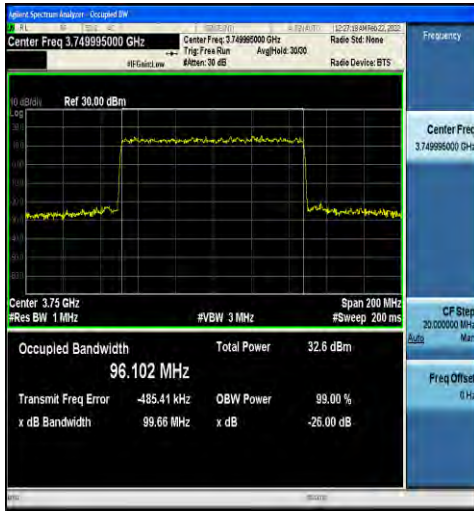




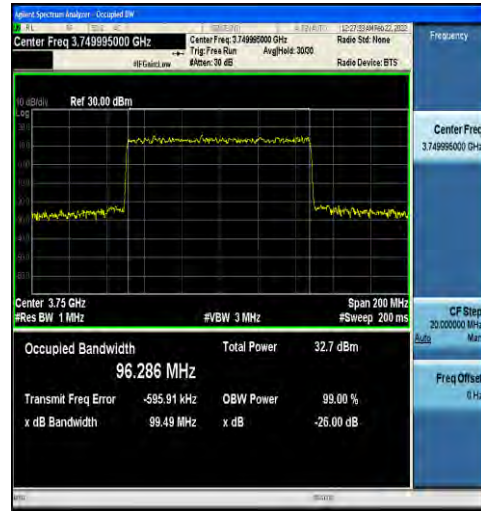








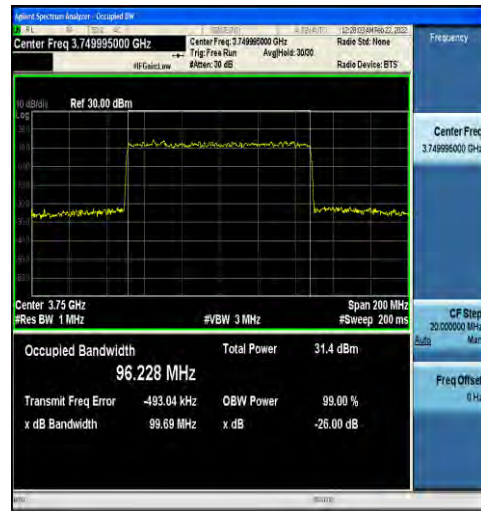
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-270@0-Ant1-96.286-99.49-≤100-PASS



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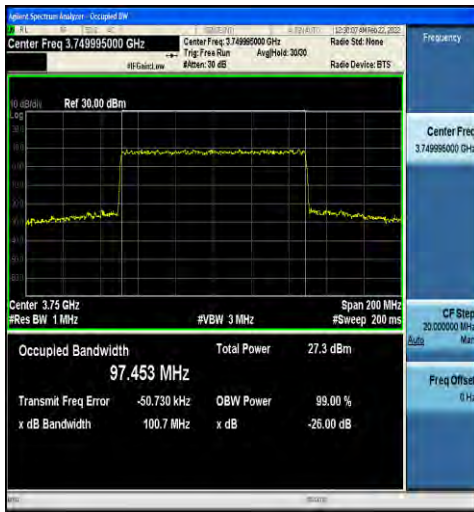
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1-N78-3700-3800-30-100-H-9-CP-256QAM-Outer\_F  
ull-273@0-Ant1-97.453-100.7-≤100-PASS



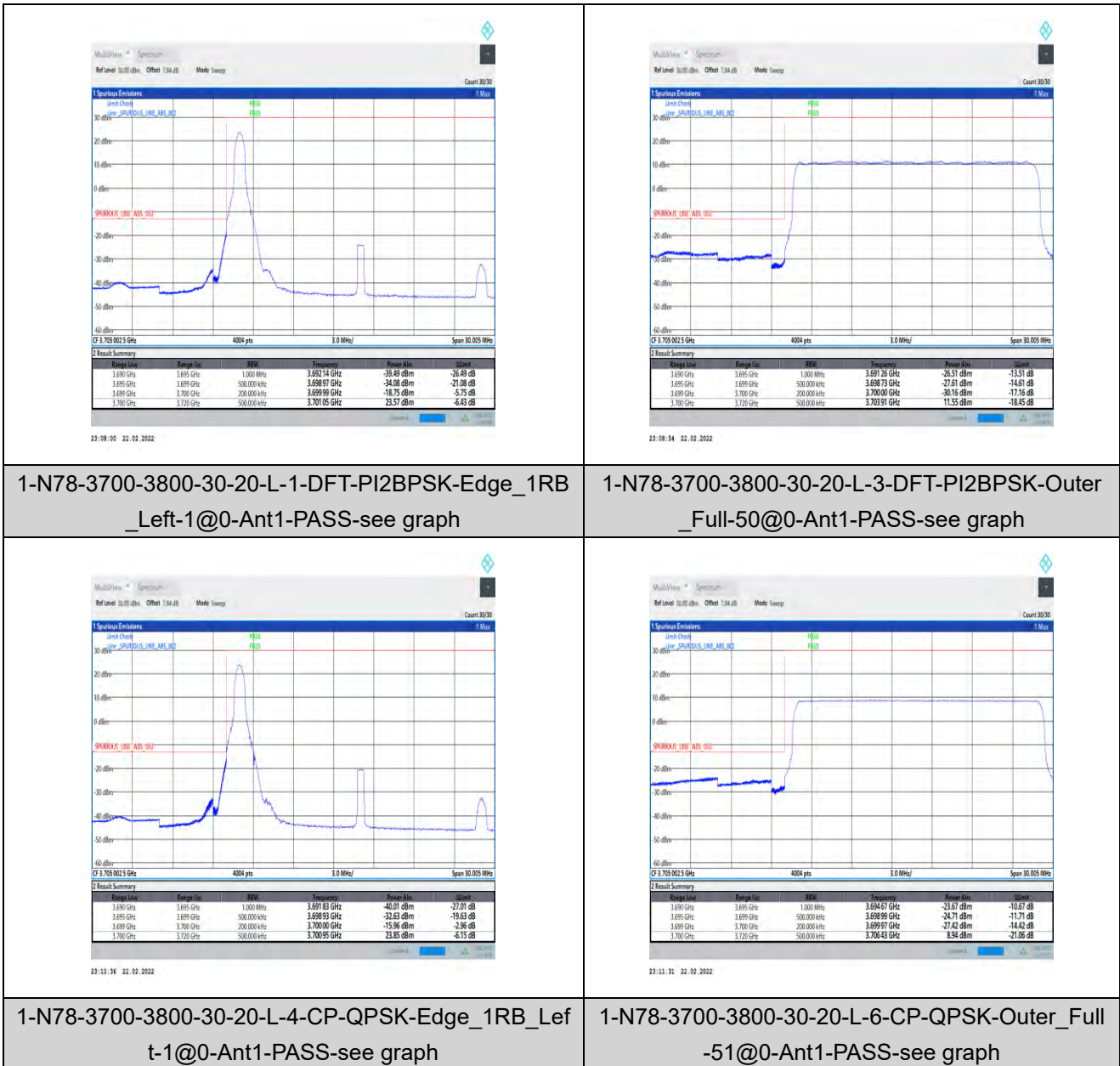
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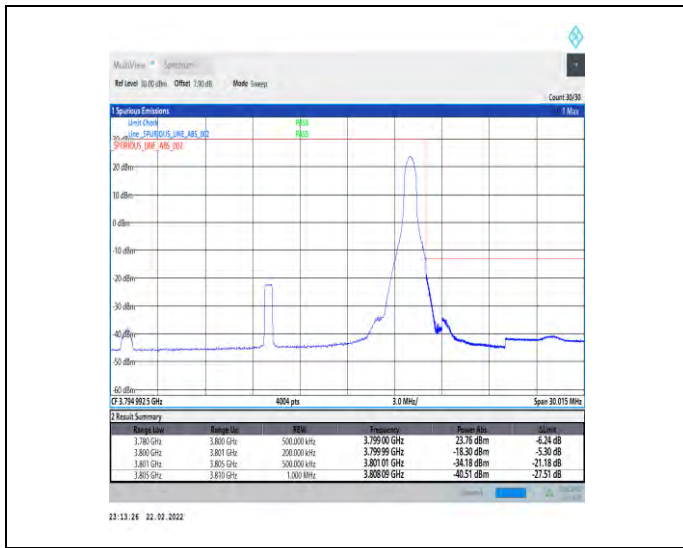
## Band Edge for SA

### Test Graphs



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1-N78-3700-3800-30-20-H-2-DFT-PI2BPSK-Edge\_1R\_B\_Right-1@50-Ant1-PASS-see graph

1-N78-3700-3800-30-20-H-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-PASS-see graph



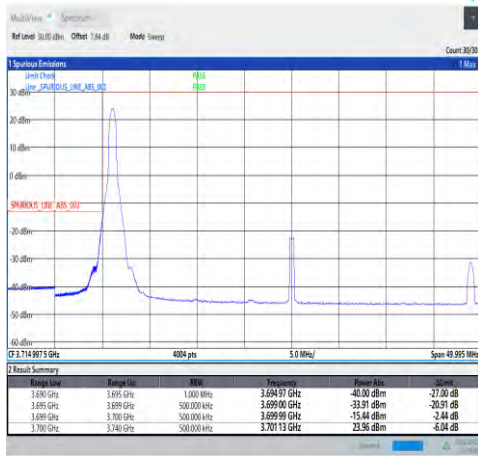
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1-N78-3700-3800-30-20-H-6-CP-QPSK-Outer\_Full-51@0-Ant1-PASS-see graph



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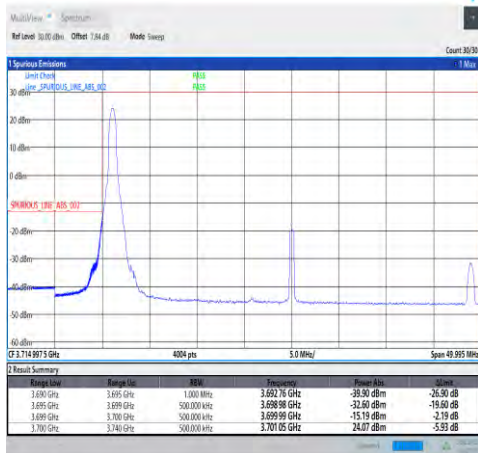
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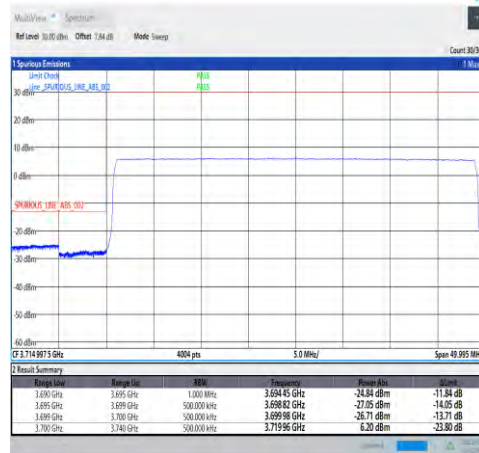
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23:21:15 22.02.2022

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23:22:10 22.02.2022

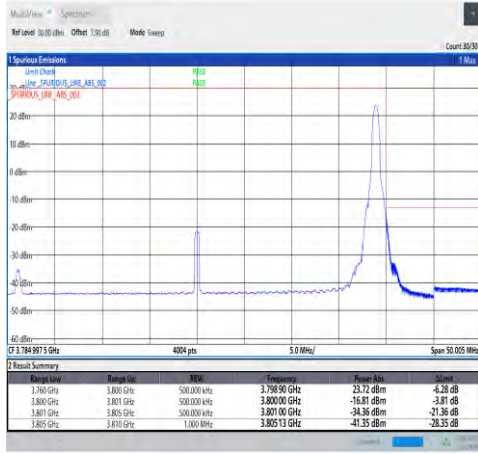
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-106@0-Ant1-PASS-see graph



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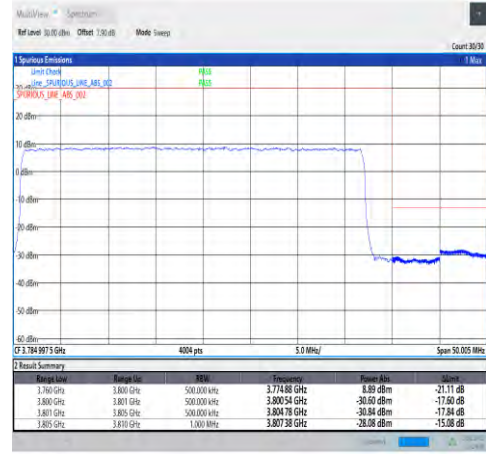
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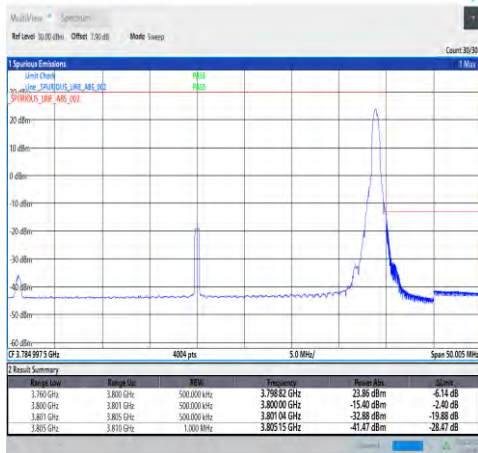
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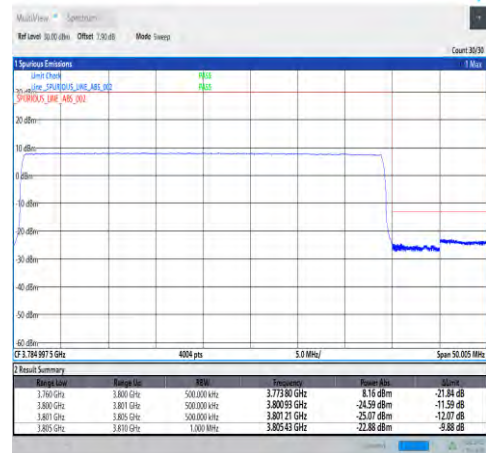
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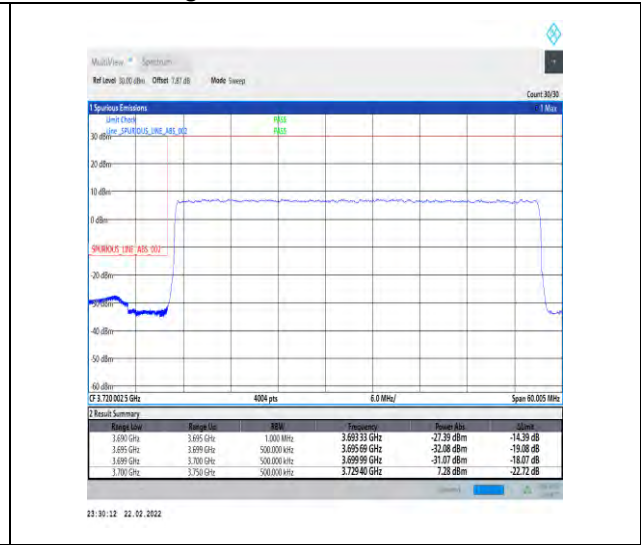
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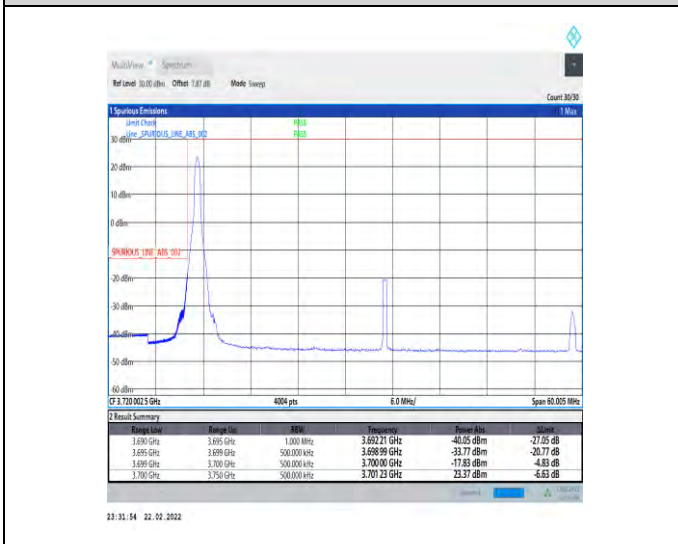
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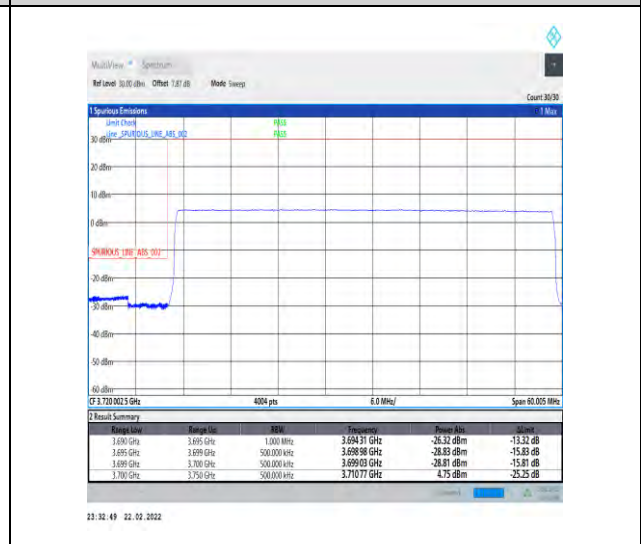
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1-N78-3700-3800-30-50-L-3-DFT-PI2BPSK-Outer\_Full-128@0-Ant1-PASS-see graph



1-N78-3700-3800-30-50-L-4-CP-QPSK-Edge\_1RB\_Lef t-1@0-Ant1-PASS-see graph



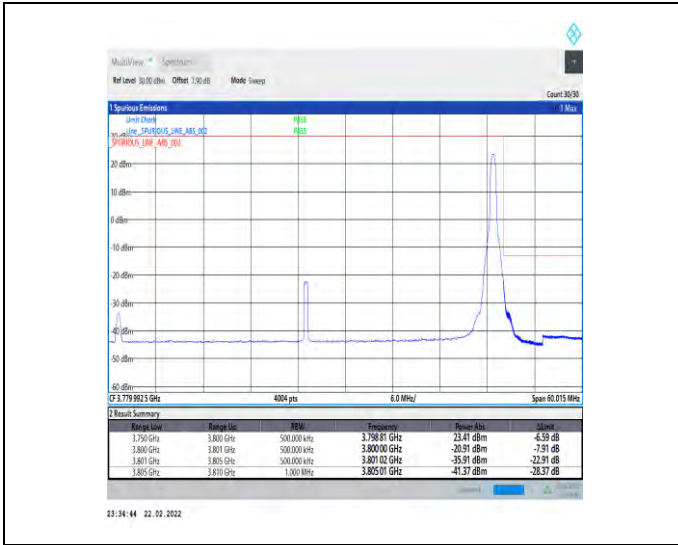
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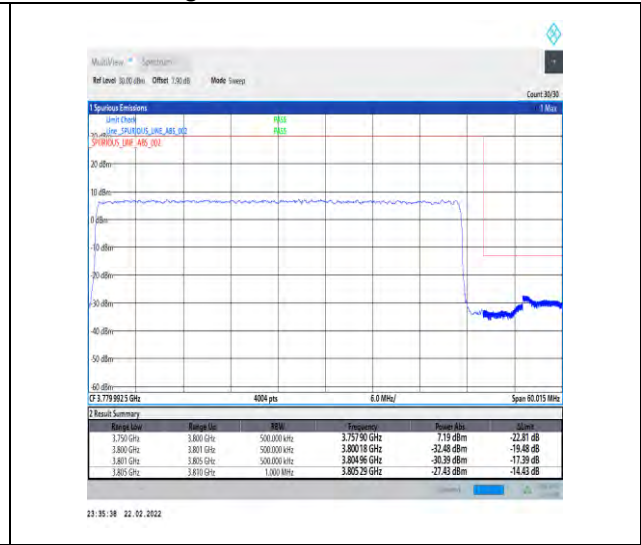
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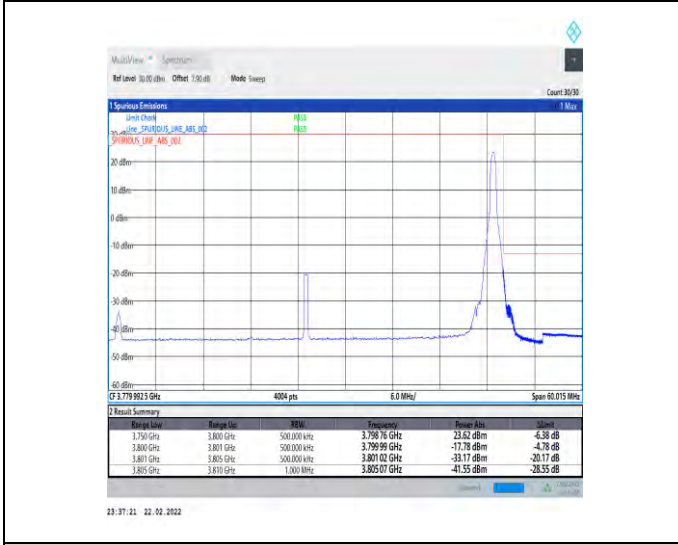




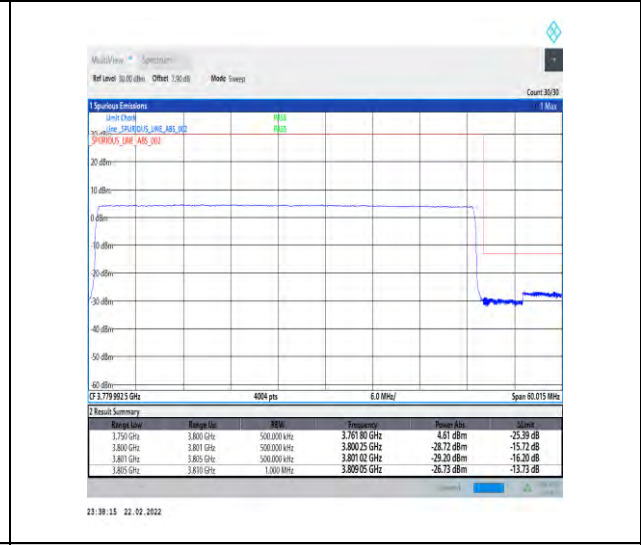
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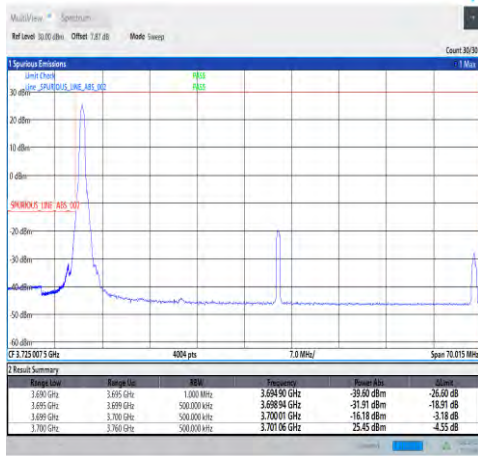


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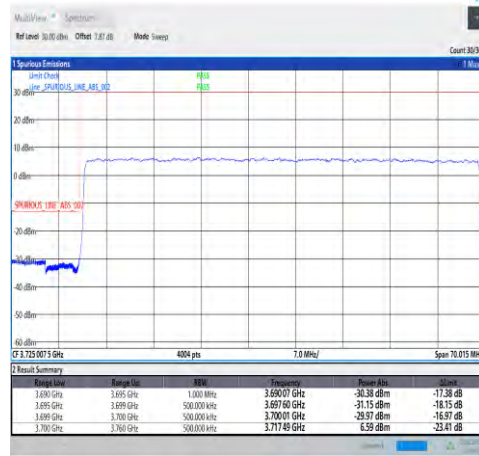
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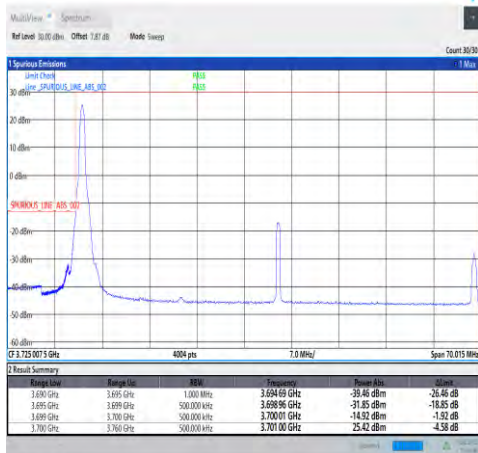
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23:41:52 22.02.2022

1-N78-3700-3800-30-60-L-3-DFT-PI2BPSK-Outer\_Full-162@0-Ant1-PASS-see graph



11:00:46 23.02.2022

1-N78-3700-3800-30-60-L-4-CP-QPSK-Edge\_1RB\_Lef t-1@0-Ant1-PASS-see graph



23:43:29 22.02.2022

1-N78-3700-3800-30-60-L-6-CP-QPSK-Outer\_Full -162@0-Ant1-PASS-see graph



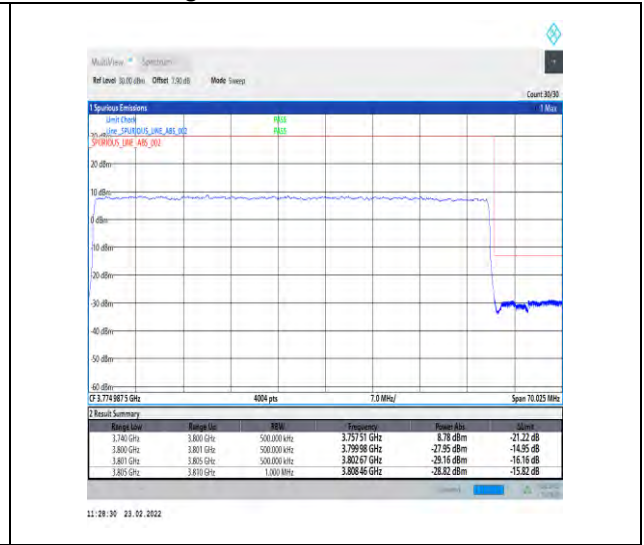
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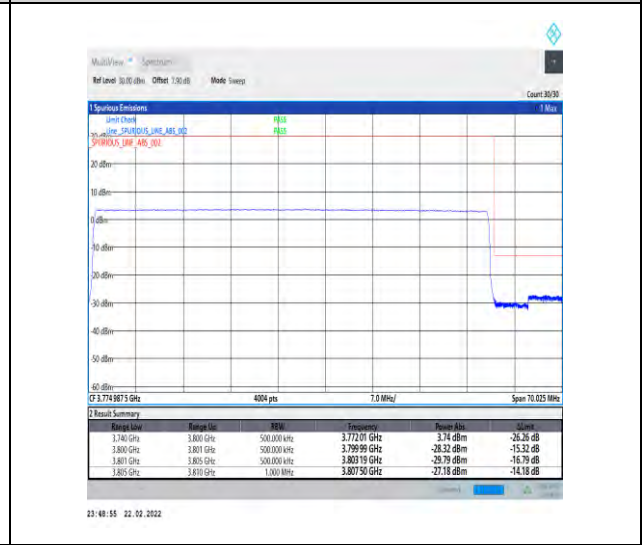
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1-N78-3700-3800-30-60-H-5-CP-QPSK-Edge\_1RB\_Right-1@161-Ant1-PASS-see graph

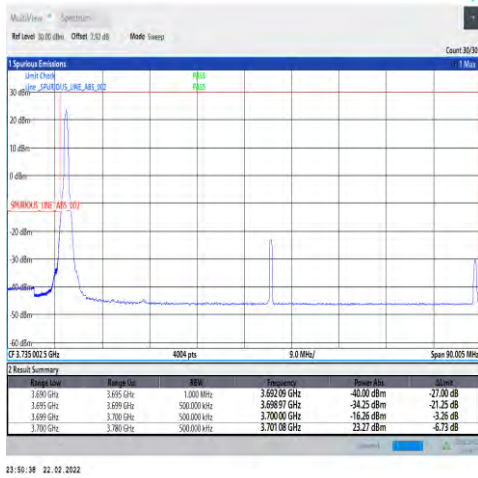


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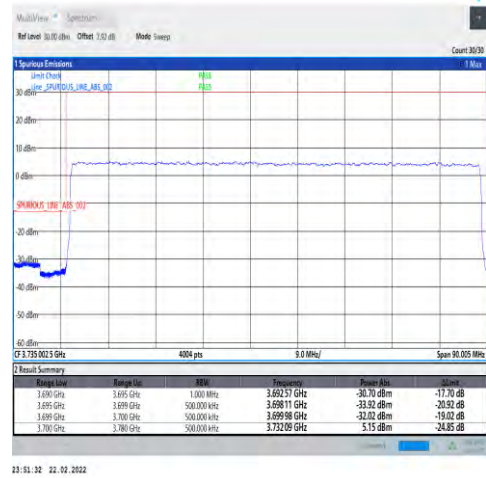


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1-N78-3700-3800-30-80-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-PASS-see graph



1-N78-3700-3800-30-80-L-3-DFT-PI2BPSK-Outer\_Full-216@0-Ant1-PASS-see graph



1-N78-3700-3800-30-80-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-PASS-see graph



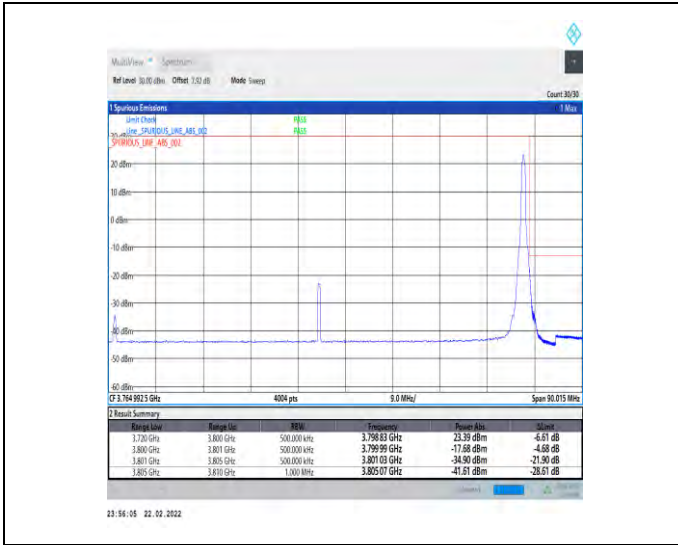
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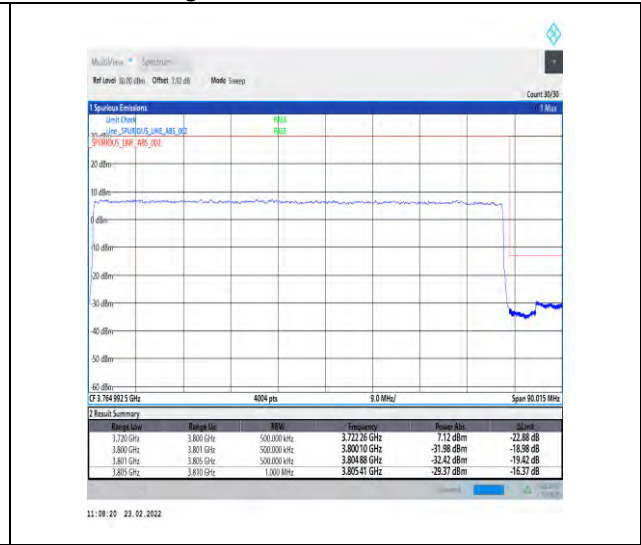
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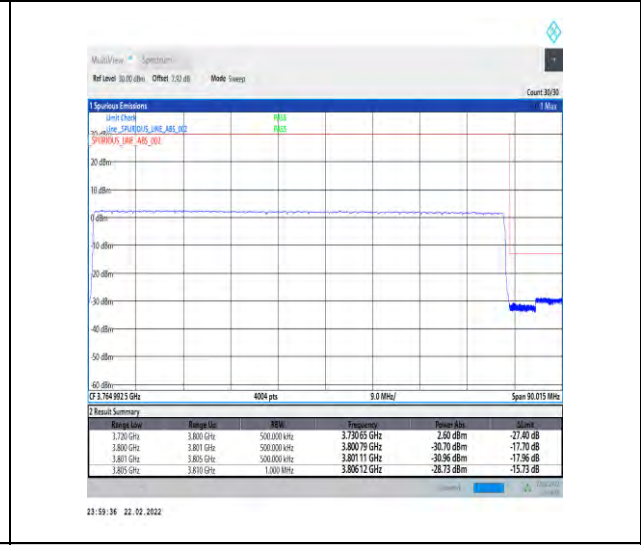
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1-N78-3700-3800-30-80-H-5-CP-QPSK-Edge\_1RB\_Right-1@216-Ant1-PASS-see graph



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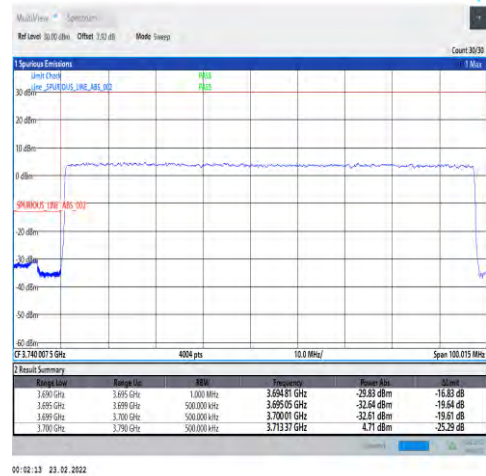


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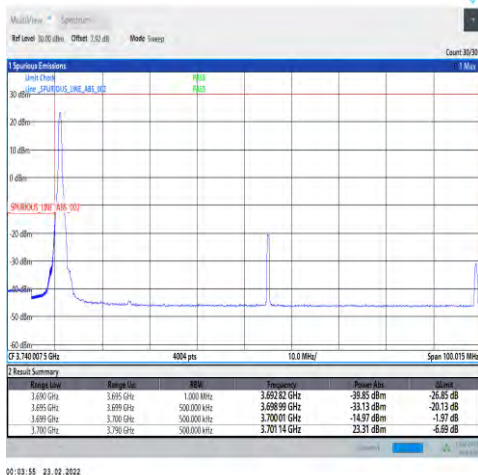
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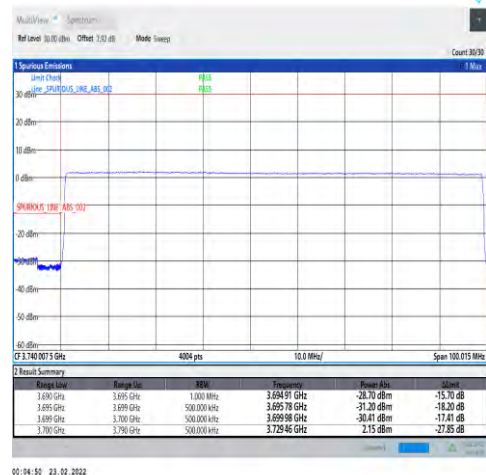
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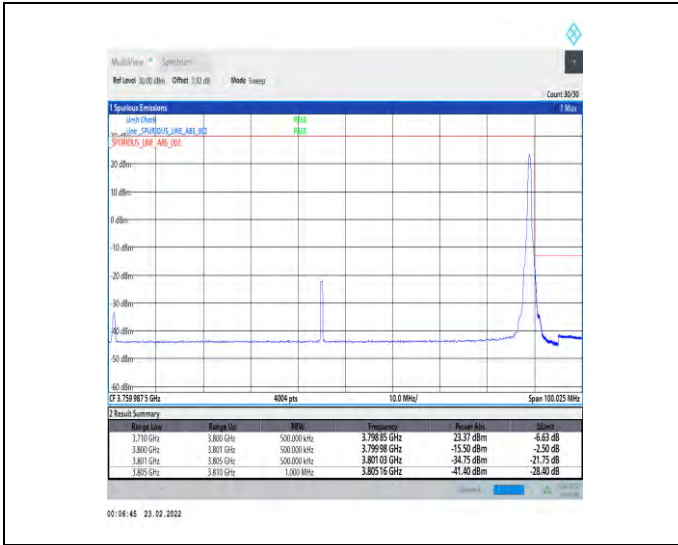
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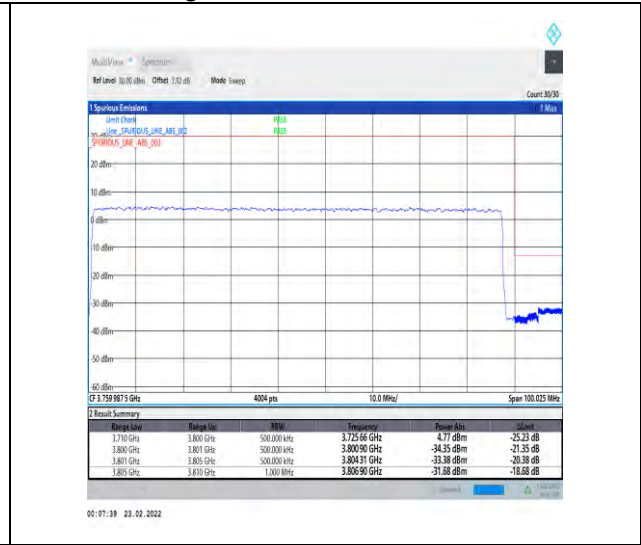
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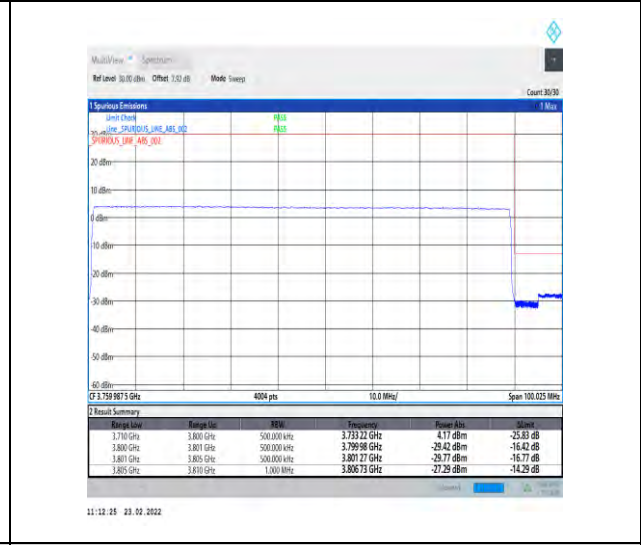
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1-N78-3700-3800-30-90-H-5-CP-QPSK-Edge\_1RB\_Right-1@244-Ant1-PASS-see graph



1-N78-3700-3800-30-90-H-6-CP-QPSK-Outer\_Full-245@0-Ant1-PASS-see graph

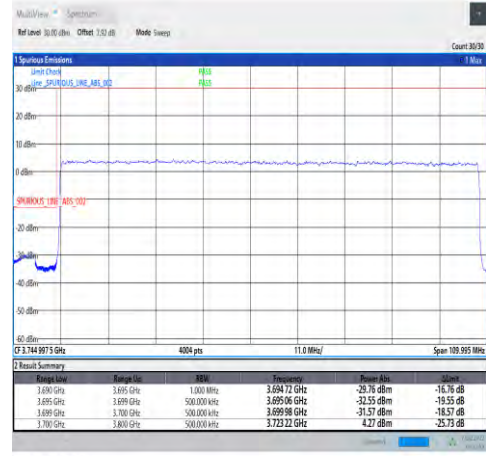


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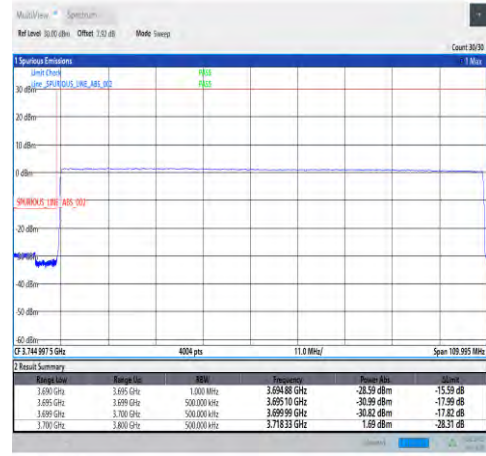
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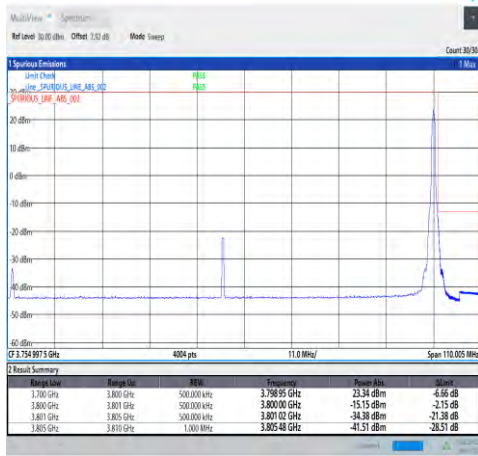


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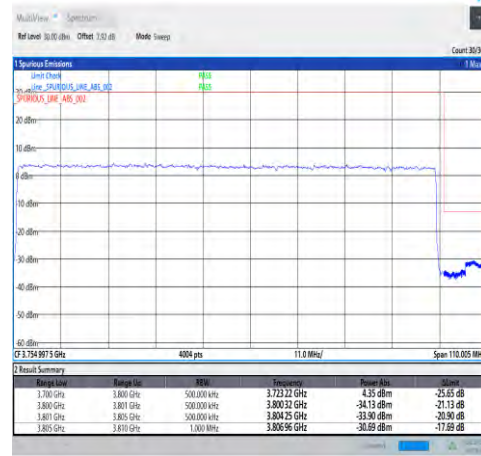
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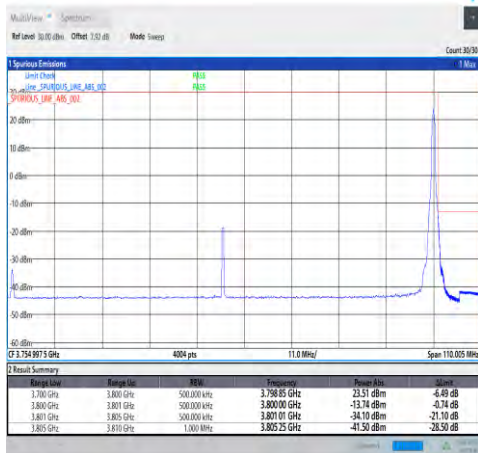




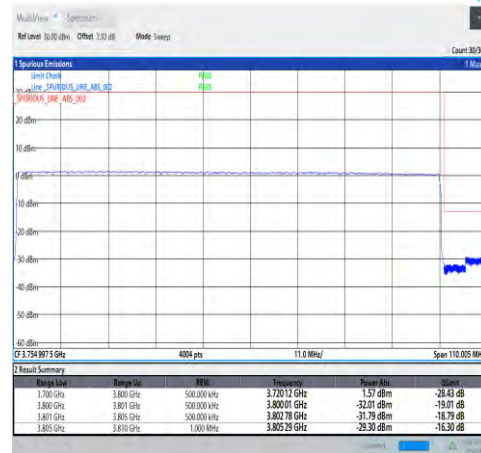
1-N78-3700-3800-30-100-H-2-DFT-PI2BPSK-Edge\_1R\_B\_Right-1@272-Ant1-PASS-see graph



1-N78-3700-3800-30-100-H-3-DFT-PI2BPSK-Outer\_Full-270@0-Ant1-PASS-see graph



1-N78-3700-3800-30-100-H-5-CP-QPSK-Edge\_1RB\_Right-1@272-Ant1-PASS-see graph



1-N78-3700-3800-30-100-H-6-CP-QPSK-Outer\_Full-273@0-Ant1-PASS-see graph



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## Conducted Spurious Emission for SA

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	StartFreq	StopFreq	Result	Limit	Verdict
N78-3700-3800	30	100	DFT-PI2BPSK	L	Inner_1RB_Left	0.009	0.15	-68.60	-43	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	L	Inner_1RB_Left	0.15	30	-88.95	-33	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	L	Inner_1RB_Left	30	1000	-67.13	-13	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	L	Inner_1RB_Left	1000	6000	-43.32	-13	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	L	Inner_1RB_Left	6000	18000	-63.63	-13	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	L	Inner_1RB_Left	18000	40000	-53.71	-13	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Inner_1RB_Left	0.009	0.15	-69.23	-43	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Inner_1RB_Left	0.15	30	-87.81	-33	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Inner_1RB_Left	30	1000	-67.45	-13	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Inner_1RB_Left	1000	6000	-43.57	-13	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Inner_1RB_Left	6000	18000	-63.63	-13	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Inner_1RB_Left	18000	40000	-53.31	-13	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	H	Inner_1RB_Left	0.009	0.15	-69.25	-43	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	H	Inner_1RB_Left	0.15	30	-90.03	-33	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	H	Inner_1RB_Left	30	1000	-67.87	-13	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	H	Inner_1RB_Left	1000	6000	-43.37	-13	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	H	Inner_1RB_Left	6000	18000	-63.77	-13	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	H	Inner_1RB_Left	18000	40000	-53.54	-13	PASS



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Test Graphs

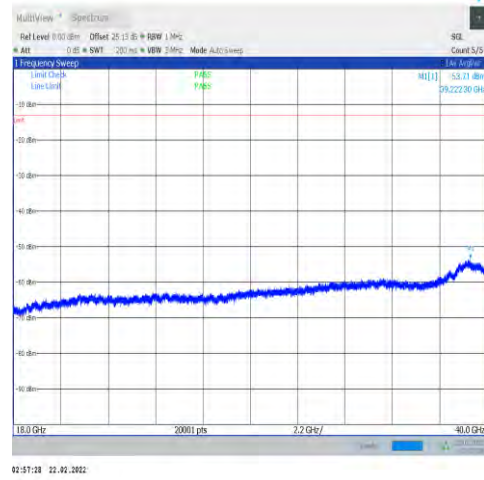
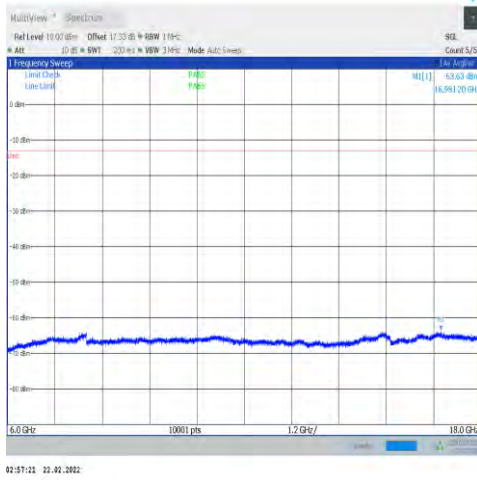
<p>1-N78-3700-3800-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1--68.60--43-PASS</p>	<p>1-N78-3700-3800-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1--88.95--33-PASS</p>
<p>1-N78-3700-3800-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1--67.13--13-PASS</p>	<p>1-N78-3700-3800-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1--43.32--13-PASS</p>



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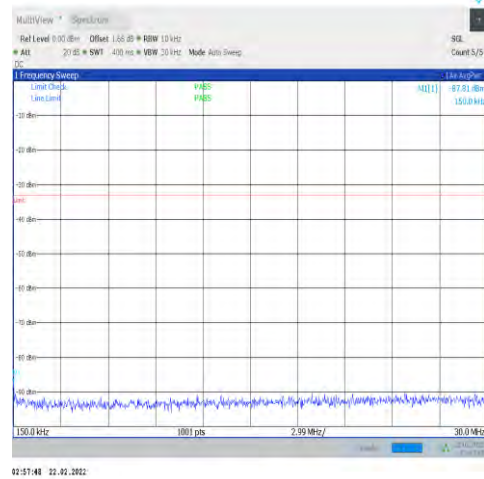
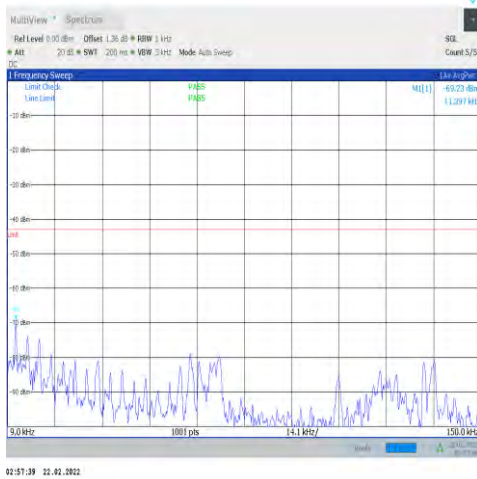
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1-N78-3700-3800-30-100-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-6000-18000-Ant1--63.63--13-PASS

1-N78-3700-3800-30-100-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-18000-40000-Ant1--53.71--13-PASS



1-N78-3700-3800-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.009-0.15-Ant1--69.23--43-PASS

1-N78-3700-3800-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-Ant1--87.81--33-PASS



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<p>1-N78-3700-3800-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1--67.45--13-PASS</p>	<p>1-N78-3700-3800-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1--43.57--13-PASS</p>
<p>1-N78-3700-3800-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-6000-18000-Ant1--63.63--13-PASS</p>	<p>1-N78-3700-3800-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant1--53.31--13-PASS</p>

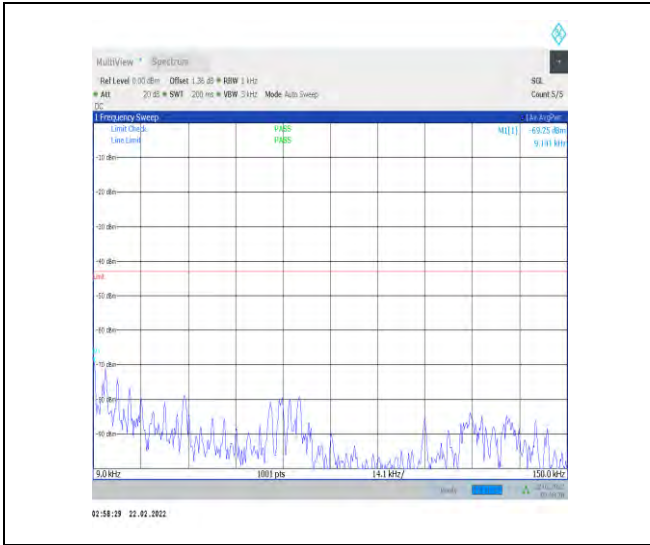


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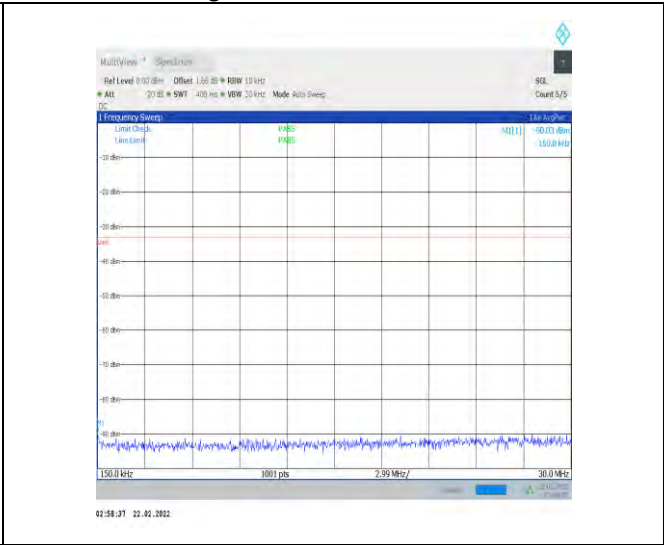
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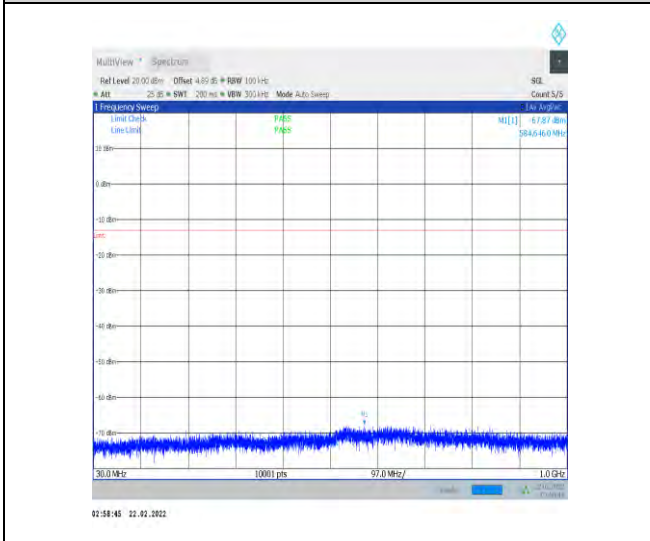
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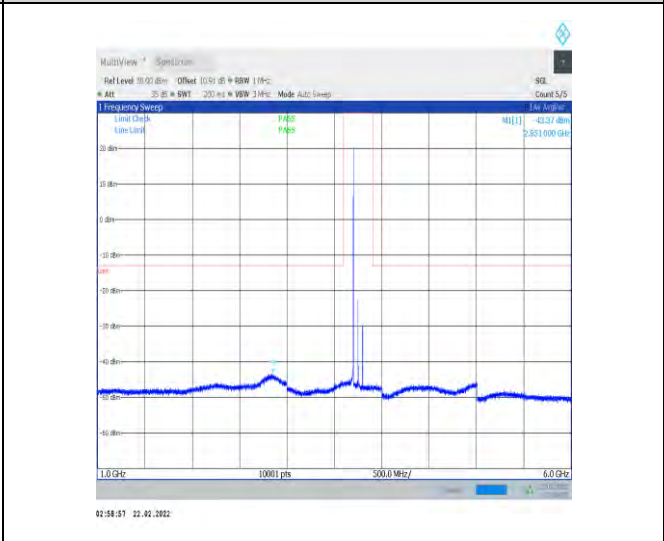
1-N78-3700-3800-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.009-0.15-Ant1--69.25--43-PASS



1-N78-3700-3800-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-Ant1--90.03--33-PASS



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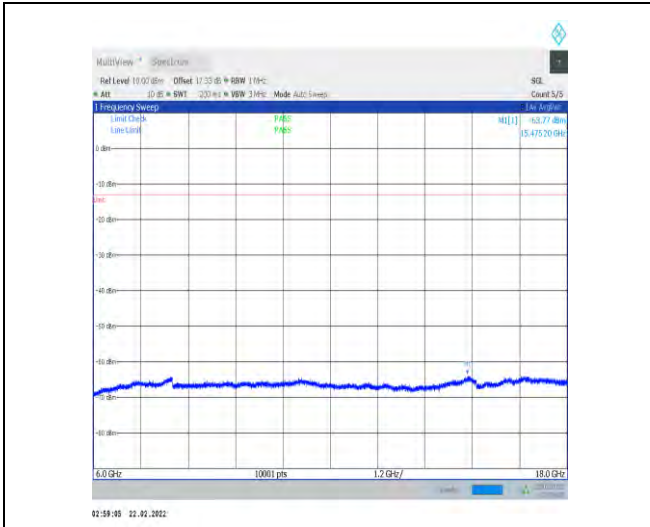
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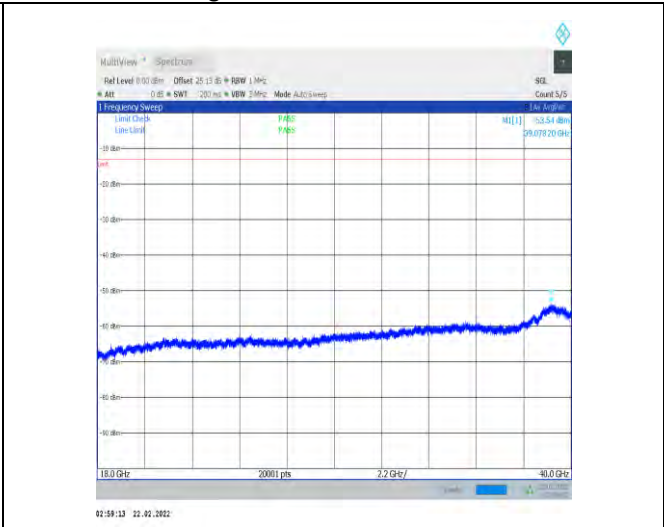
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1-N78-3700-3800-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-6000-18000-Ant1--63.77--13-PASS



1-N78-3700-3800-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-18000-40000-Ant1--53.54--13-PASS



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## Field Strength of Spurious Radiation

Test Band =NR SA\_Band 78 \_ TM1 3700M-3980M

Test Channel =Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.18	50.49	-100.45	-49.96	-13.00	36.96	144	212	Horizontal
2	10965.27	42.55	-91.12	-48.57	-13.00	35.57	196	83	Horizontal
3	11796.5714	48.93	-91.86	-42.93	-13.00	29.93	238	330	Horizontal
4	13636.5714	44.98	-88.94	-43.96	-13.00	30.96	172	102	Horizontal
5	14620.36	40.60	-89.74	-49.14	-13.00	36.14	205	200	Horizontal
6	16472.1429	43.29	-89.59	-46.30	-13.00	33.30	149	266	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.18	48.93	-100.45	-51.52	-13.00	38.52	184	117	Vertical
2	10142.2143	46.45	-93.15	-46.70	-13.00	33.70	172	93	Vertical
3	10965.27	40.67	-91.12	-50.45	-13.00	37.45	196	359	Vertical
4	13634.9286	45.08	-88.91	-43.83	-13.00	30.83	225	3	Vertical
5	14620.36	40.71	-89.74	-49.03	-13.00	36.03	284	162	Vertical
6	16541.1429	43.86	-89.48	-45.62	-13.00	32.62	293	200	Vertical



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Test Band =NR SA\_Band 78 \_ TM1 3700M-3980M

Test Channel =Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7410.18	47.74	-100.59	-52.85	-13.00	39.85	184	176	Horizontal
2	11115.27	42.35	-90.95	-48.60	-13.00	35.60	172	23	Horizontal
3	12499.7143	44.80	-90.73	-45.93	-13.00	32.93	299	348	Horizontal
4	13625.0714	44.44	-88.73	-44.29	-13.00	31.29	124	188	Horizontal
5	14820.36	40.71	-89.94	-49.23	-13.00	36.23	255	23	Horizontal
6	16475.4286	44.47	-89.56	-45.09	-13.00	32.09	180	223	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7410.18	47.01	-100.59	-53.58	-13.00	40.58	175	3	Vertical
2	11115.27	42.97	-90.95	-47.98	-13.00	34.98	233	68	Vertical
3	12691.9286	44.13	-90.62	-46.49	-13.00	33.49	194	303	Vertical
4	13155.2143	44.95	-89.99	-45.04	-13.00	32.04	172	115	Vertical
5	13659.5714	45.43	-89.37	-43.94	-13.00	30.94	205	347	Vertical
6	14820.36	40.17	-89.94	-49.77	-13.00	36.77	188	3	Vertical



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Test Band =NR SA\_Band 78 \_ TM1 3700M-3980M

Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7510.18	47.66	-99.93	-52.27	-13.00	39.27	122	210	Horizontal
2	11265.27	42.90	-90.97	-48.07	-13.00	35.07	234	314	Horizontal
3	11905	46.10	-91.22	-45.12	-13.00	32.12	184	105	Horizontal
4	13648.0714	44.50	-89.15	-44.65	-13.00	31.65	172	57	Horizontal
5	15020.36	41.23	-90.41	-49.18	-13.00	36.18	199	188	Horizontal
6	16552.6429	43.19	-89.52	-46.33	-13.00	33.33	230	194	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7510.18	47.01	-99.93	-52.92	-13.00	39.92	197	357	Vertical
2	11265.27	42.23	-90.97	-48.74	-13.00	35.74	105	112	Vertical
3	12496.4286	44.62	-90.72	-46.10	-13.00	33.10	234	57	Vertical
4	13646.4286	45.13	-89.12	-43.99	-13.00	30.99	186	149	Vertical
5	15020.36	42.33	-90.41	-48.08	-13.00	35.08	199	245	Vertical
6	16357.1429	43.89	-90.16	-46.27	-13.00	33.27	278	278	Vertical



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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
N78-370 0-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-3.717000	-0.000991	PASS
N78-370 0-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-1.928000	-0.000514	PASS
N78-370 0-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-6.357000	-0.001695	PASS
N78-370 0-3800	30	100	CP-QPSK	M	Outer_Full	VH	NT	-6.705000	-0.001788	PASS
N78-370 0-3800	30	100	CP-QPSK	M	Outer_Full	VN	NT	-3.528000	-0.000941	PASS
N78-370 0-3800	30	100	CP-QPSK	M	Outer_Full	VL	NT	-3.901000	-0.001040	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N78-370 0-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-16.537000	-0.004410	PASS
N78-370 0-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-5.514000	-0.001470	PASS
N78-370 0-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-9.045000	-0.002412	PASS
N78-370 0-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-2.396000	-0.000639	PASS
N78-370 0-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-6.248000	-0.001666	PASS
N78-370 0-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-11.728000	-0.003127	PASS
N78-370 0-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-8.093000	-0.002158	PASS
N78-370 0-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-7.283000	-0.001942	PASS
N78-370 0-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-5.871000	-0.001566	PASS
N78-370 0-3800	30	100	CP-QPSK	M	Outer_Full	NV	-30	-10.258000	-0.002735	PASS
N78-370 0-3800	30	100	CP-QPSK	M	Outer_Full	NV	-20	-5.763000	-0.001537	PASS
N78-370 0-3800	30	100	CP-QPSK	M	Outer_Full	NV	-10	-5.917000	-0.001578	PASS
N78-370 0-3800	30	100	CP-QPSK	M	Outer_Full	NV	0	-14.447000	-0.003853	PASS
N78-370 0-3800	30	100	CP-QPSK	M	Outer_Full	NV	10	-8.921000	-0.002379	PASS
N78-370 0-3800	30	100	CP-QPSK	M	Outer_Full	NV	20	-14.302000	-0.003814	PASS
N78-370	30	100	CP-QPSK	M	Outer_Full	NV	30	-6.185000	-0.001649	PASS



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0-3800										
N78-370 0-3800	30	100	CP-QPSK	M	Outer_Full	NV	40	-2.970000	-0.000792	PASS
N78-370 0-3800	30	100	CP-QPSK	M	Outer_Full	NV	50	-9.250000	-0.002467	PASS

The End



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