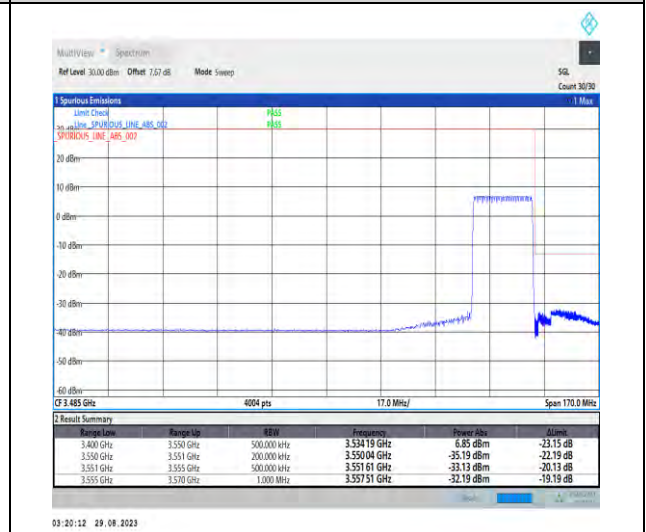
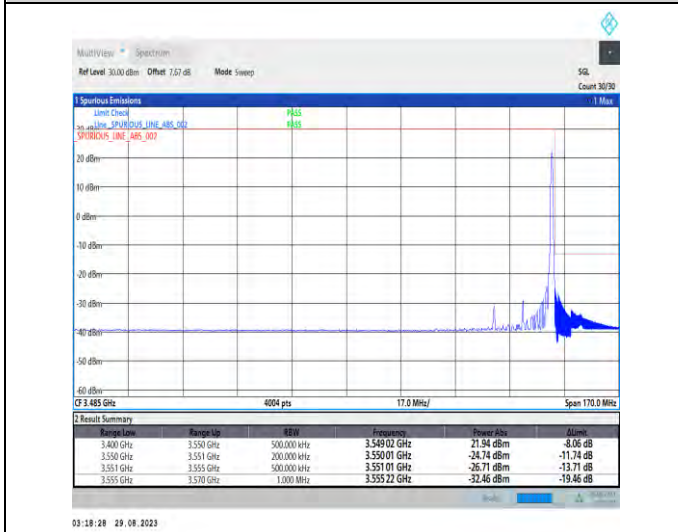


1-N77-3450-3550-PC2-30-20-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@50-Ant5-1--PASS-see graph

1-N77-3450-3550-PC2-30-20-H-3-DFT-PI2BPSK-Outer_Full-50@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-20-H-5-CP-QPSK-Edge_1RB_Right-1@50-Ant5-1--PASS-see graph

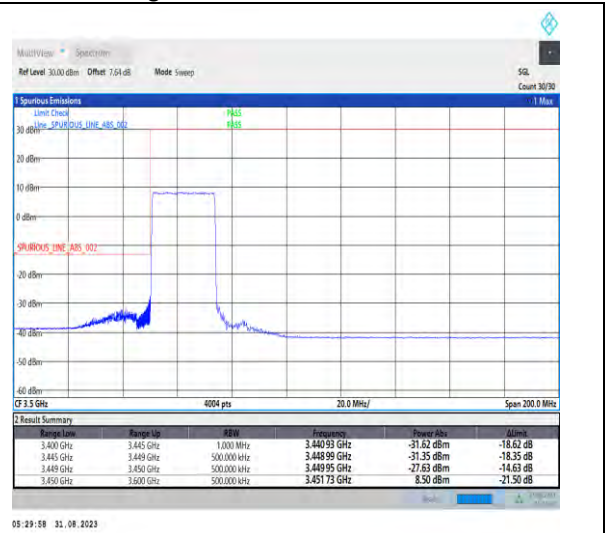
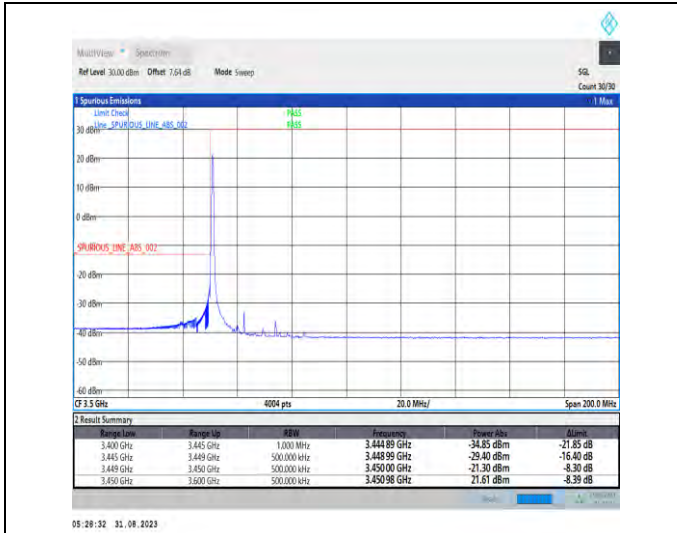
1-N77-3450-3550-PC2-30-20-H-6-CP-QPSK-Outer_Full-51@0-Ant5-1--PASS-see graph



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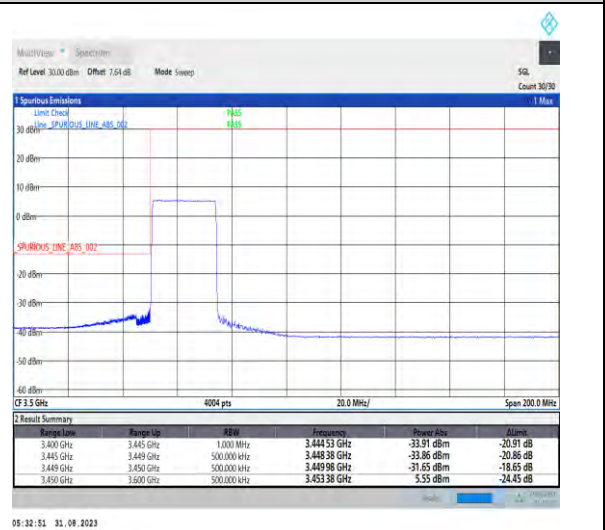
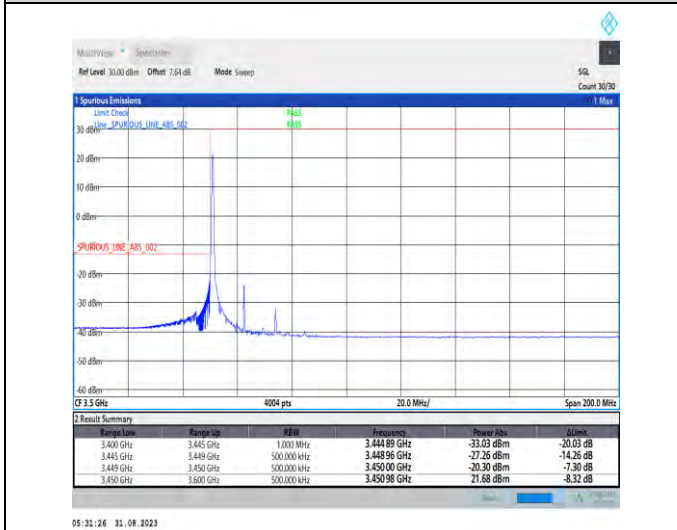
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1-N77-3450-3550-PC2-30-25-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph

1-N77-3450-3550-PC2-30-25-L-3-DFT-PI2BPSK-Outer_Full-64@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-25-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph

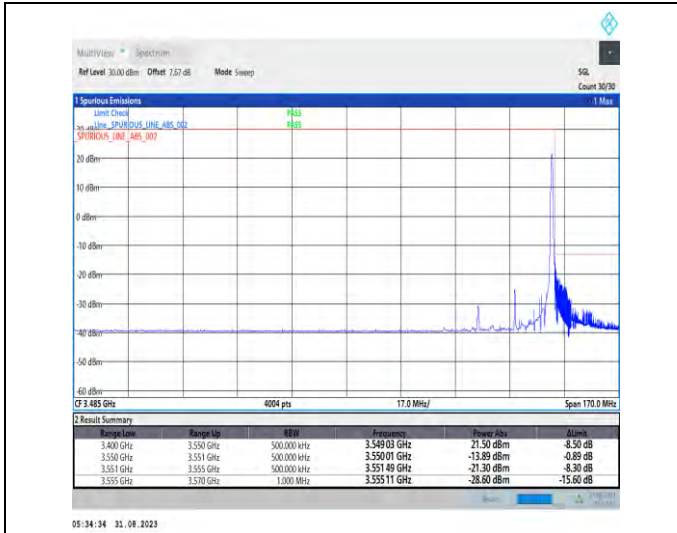
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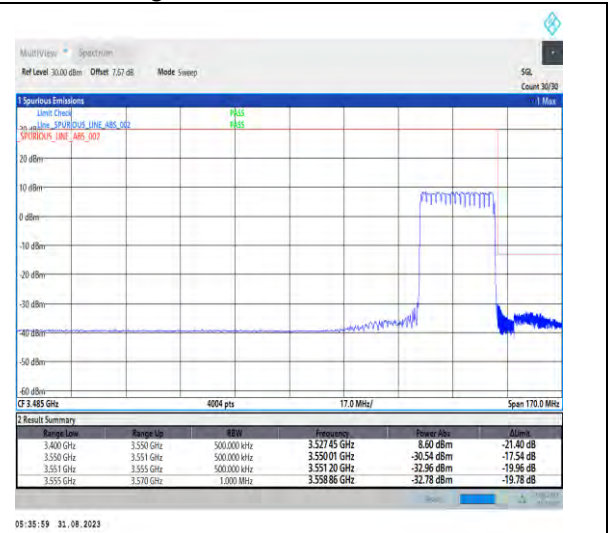
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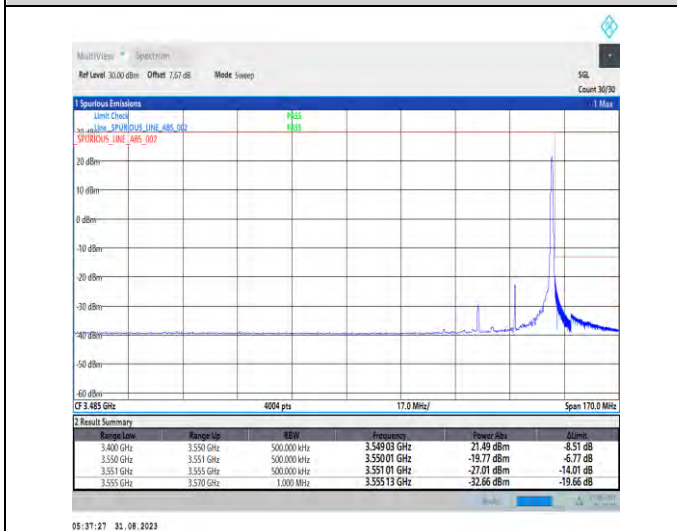
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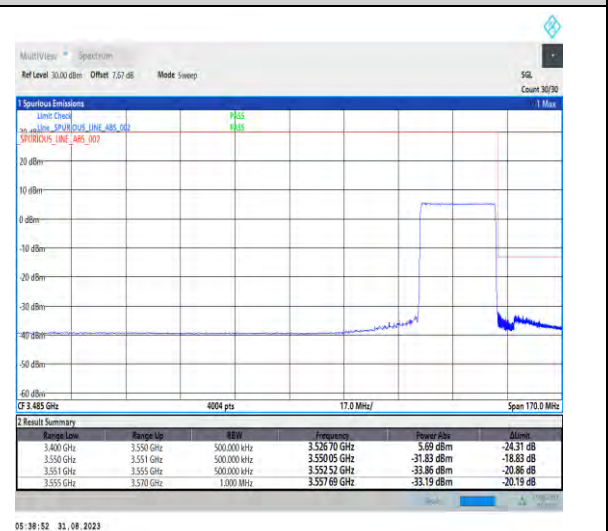
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1-N77-3450-3550-PC2-30-25-H-3-DFT-PI2BPSK-Outer_Full-64@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-25-H-5-CP-QPSK-Edge_1RB_Right-1@64-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-25-H-6-CP-QPSK-Outer_Full-65@0-Ant5-1--PASS-see graph

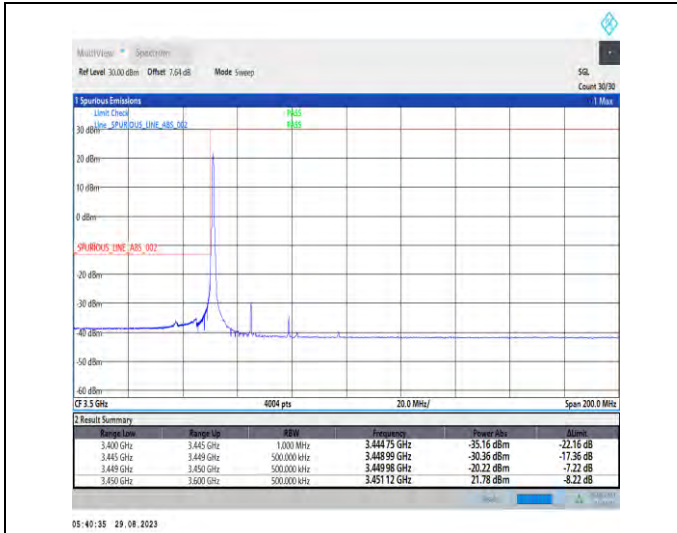


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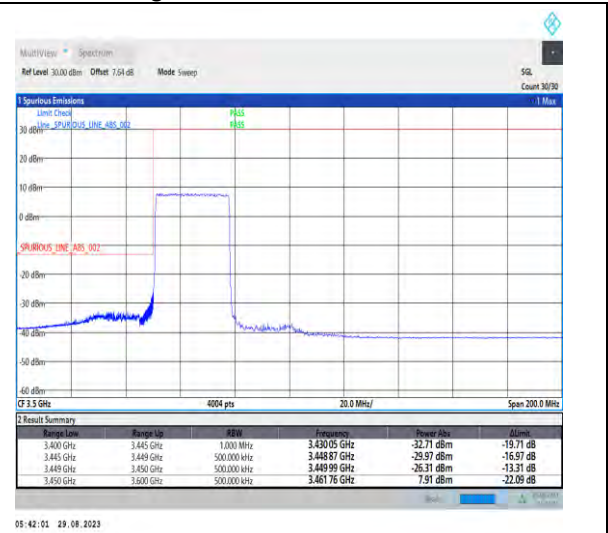
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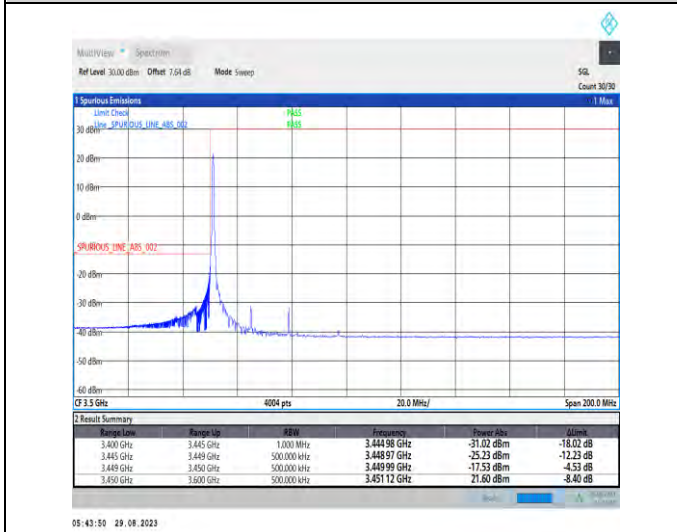
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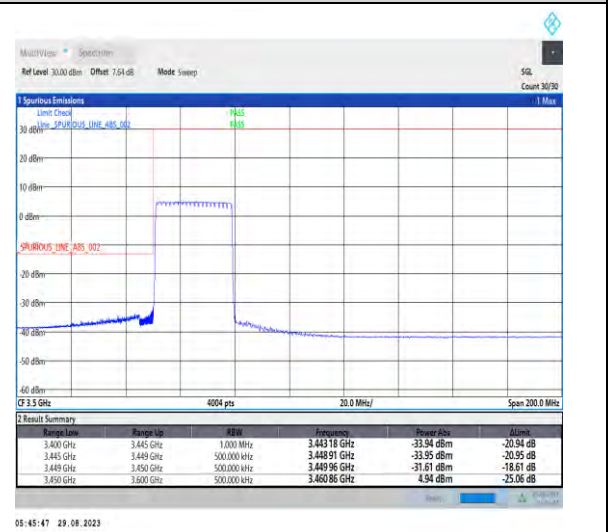
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1-N77-3450-3550-PC2-30-30-L-3-DFT-PI2BPSK-Outer_Full-75@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-30-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph



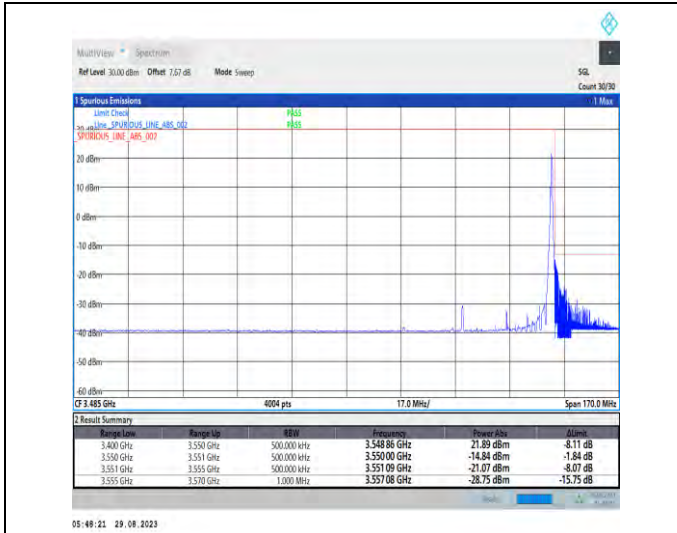
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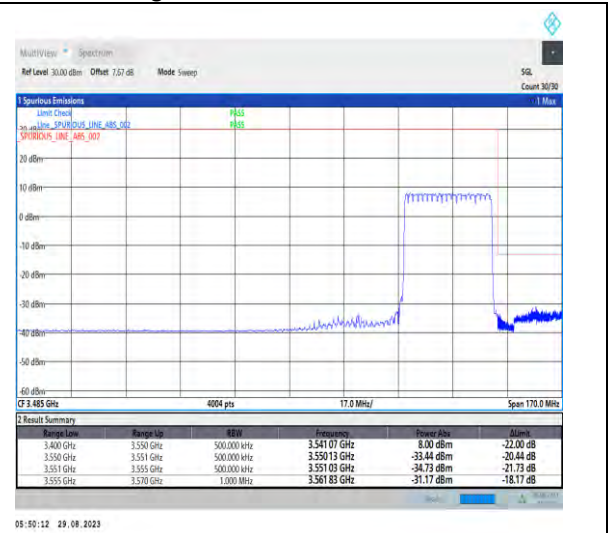
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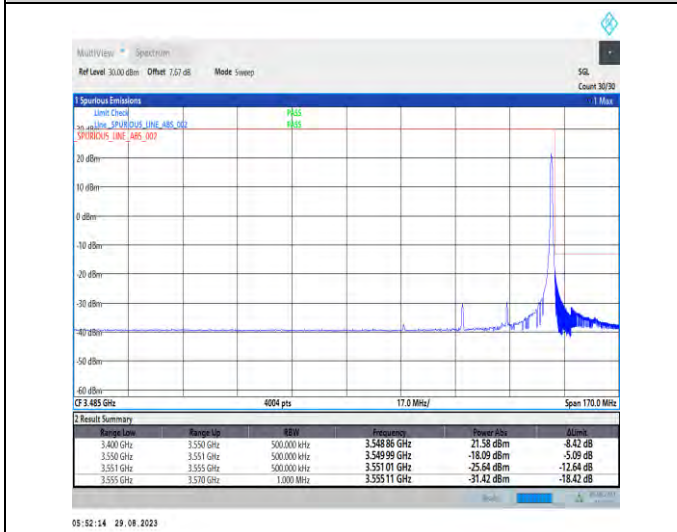
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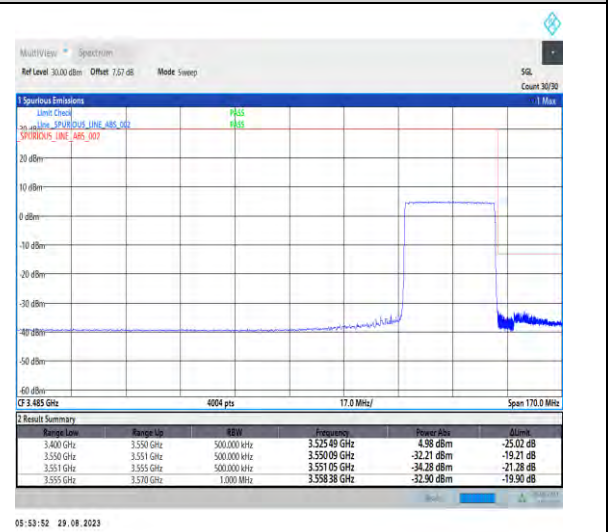
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1-N77-3450-3550-PC2-30-30-H-3-DFT-PI2BPSK-Outer_Full-75@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-30-H-5-CP-QPSK-Edge_1RB_Right-1@77-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-30-H-6-CP-QPSK-Outer_Full-78@0-Ant5-1--PASS-see graph

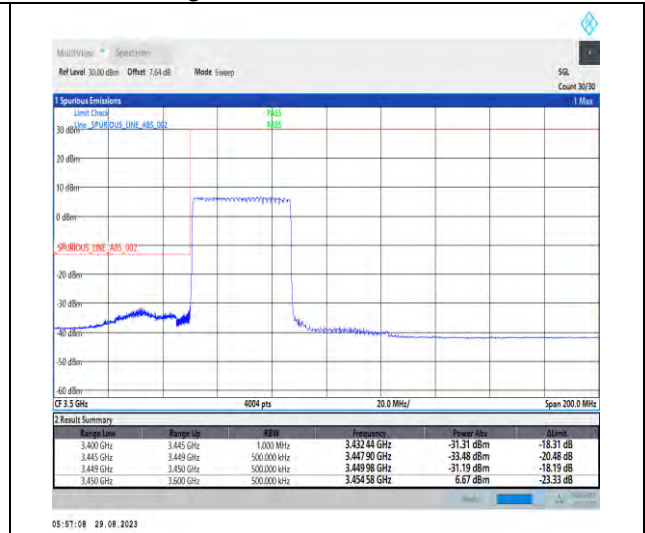
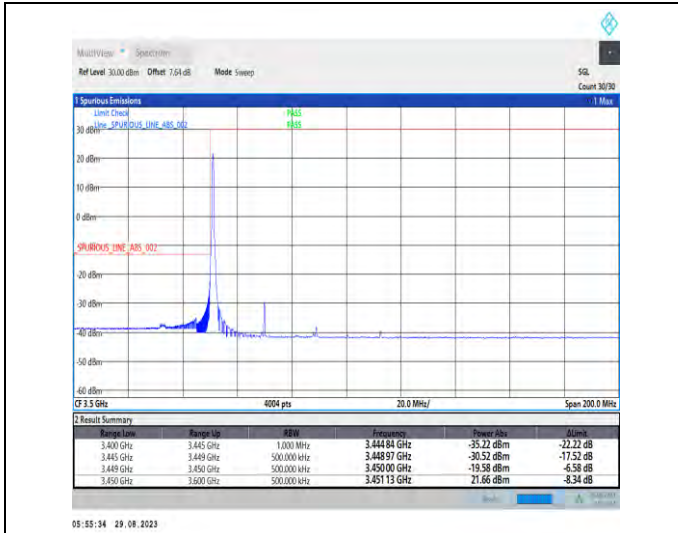


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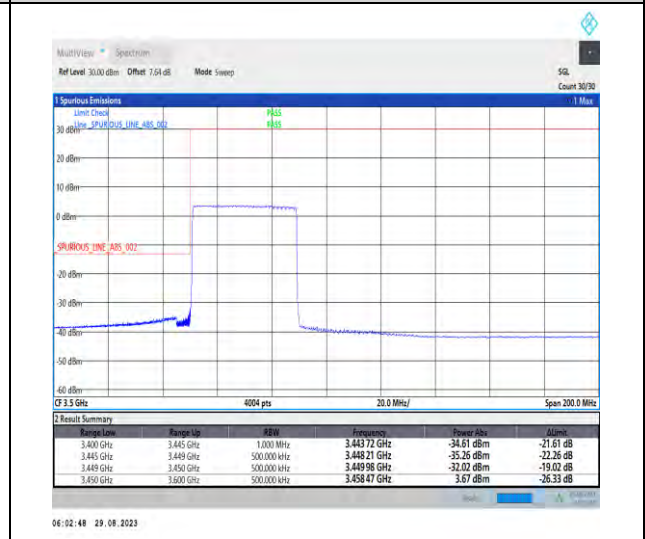
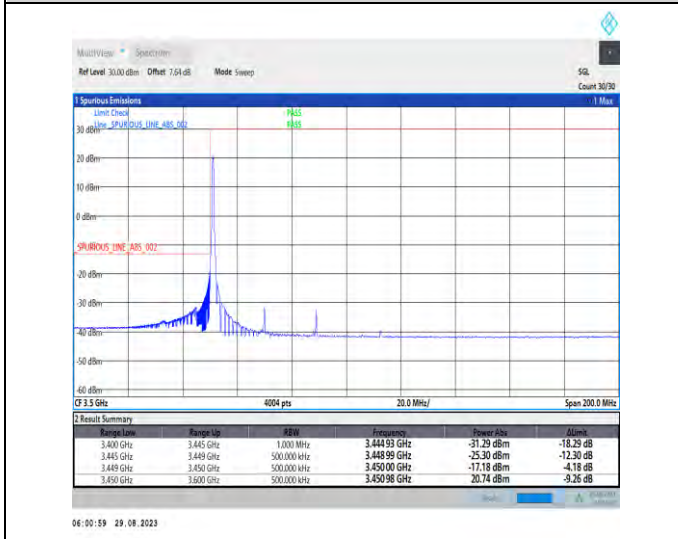
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1-N77-3450-3550-PC2-30-40-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph

1-N77-3450-3550-PC2-30-40-L-3-DFT-PI2BPSK-Outer_Full-100@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-40-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph

1-N77-3450-3550-PC2-30-40-L-6-CP-QPSK-Outer_Full-106@0-Ant5-1--PASS-see graph

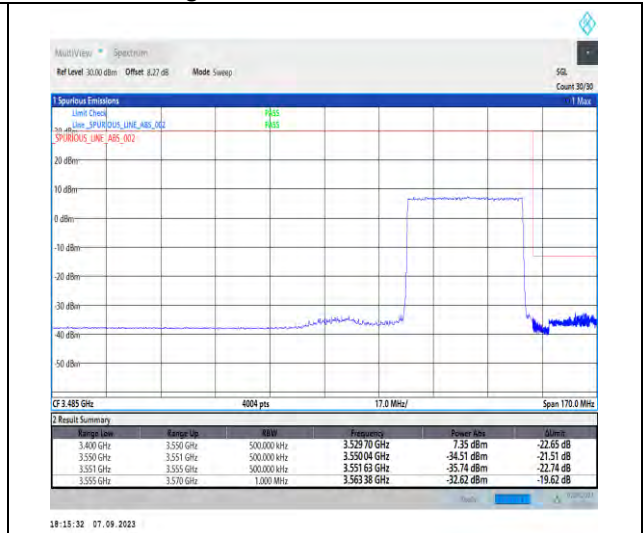
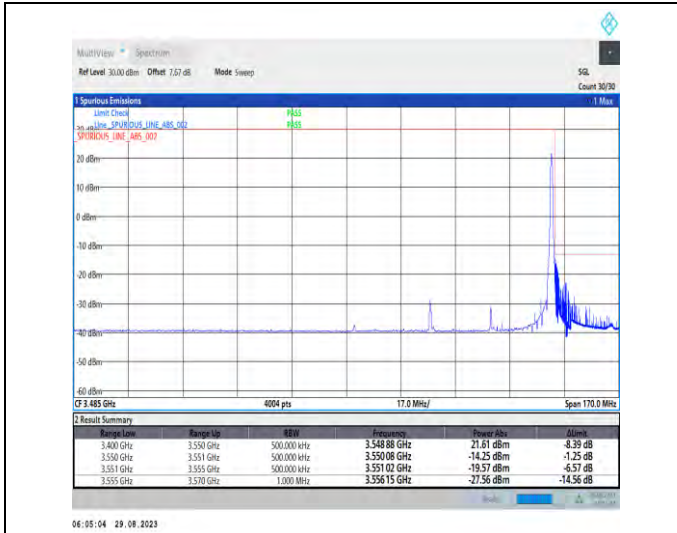


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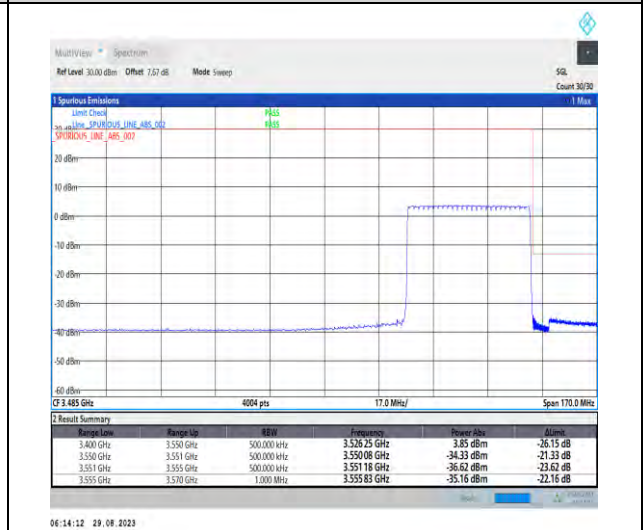
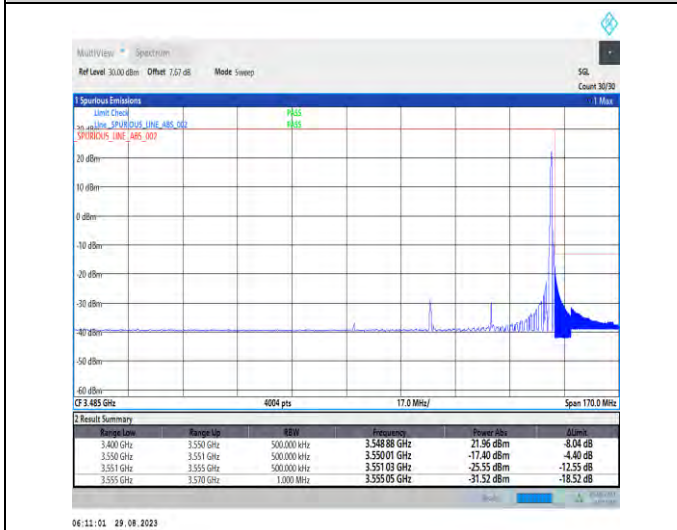
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1-N77-3450-3550-PC2-30-40-H-3-DFT-PI2BPSK-Outer_Full-100@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-40-H-5-CP-QPSK-Edge_1RB_Right-1@105-Ant5-1--PASS-see graph

1-N77-3450-3550-PC2-30-40-H-6-CP-QPSK-Outer_Full-106@0-Ant5-1--PASS-see graph

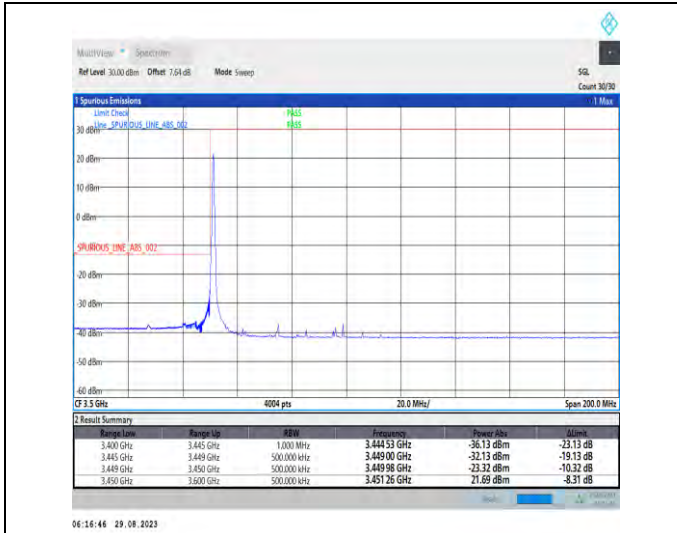


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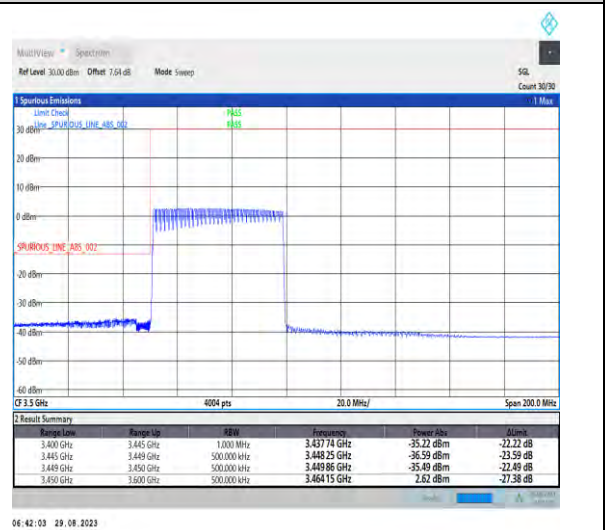
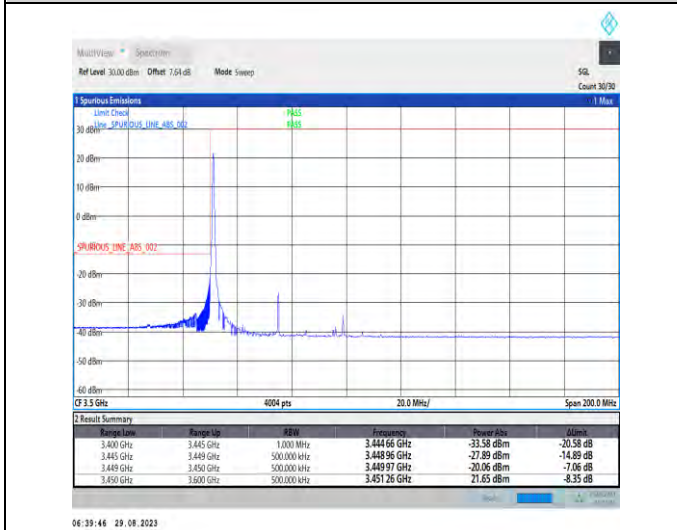
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1-N77-3450-3550-PC2-30-50-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph

1-N77-3450-3550-PC2-30-50-L-3-DFT-PI2BPSK-Outer_Full-128@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-50-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph

1-N77-3450-3550-PC2-30-50-L-6-CP-QPSK-Outer_Full-133@0-Ant5-1--PASS-see graph



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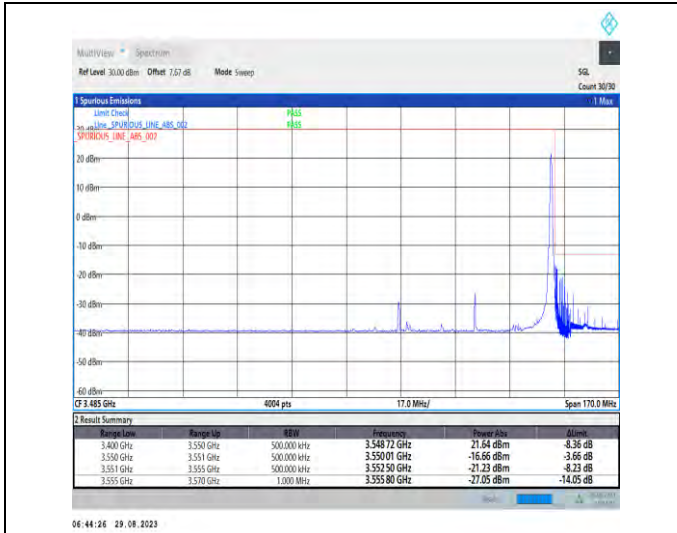
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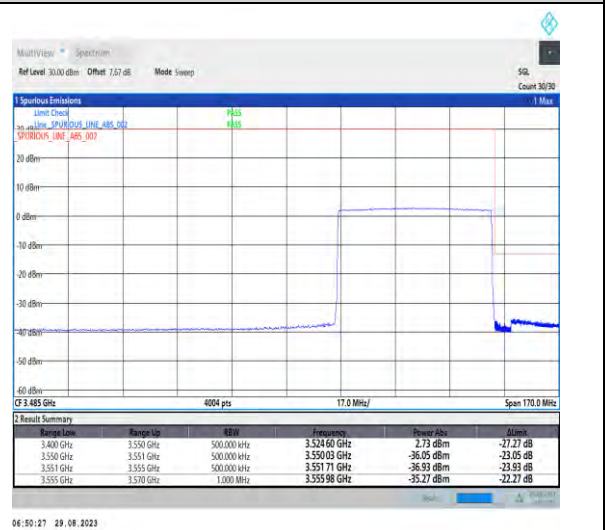
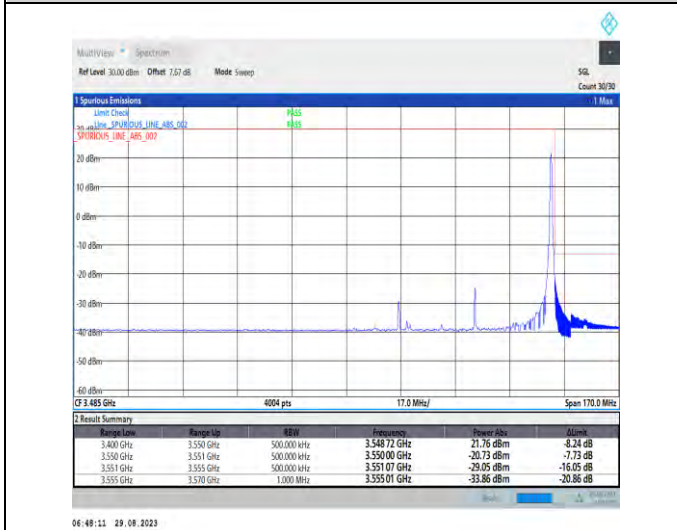
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1-N77-3450-3550-PC2-30-50-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@132-Ant5-1--PASS-see graph

1-N77-3450-3550-PC2-30-50-H-3-DFT-PI2BPSK-Outer_Full-128@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-50-H-5-CP-QPSK-Edge_1RB_Right-1@132-Ant5-1--PASS-see graph

1-N77-3450-3550-PC2-30-50-H-6-CP-QPSK-Outer_Full-133@0-Ant5-1--PASS-see graph

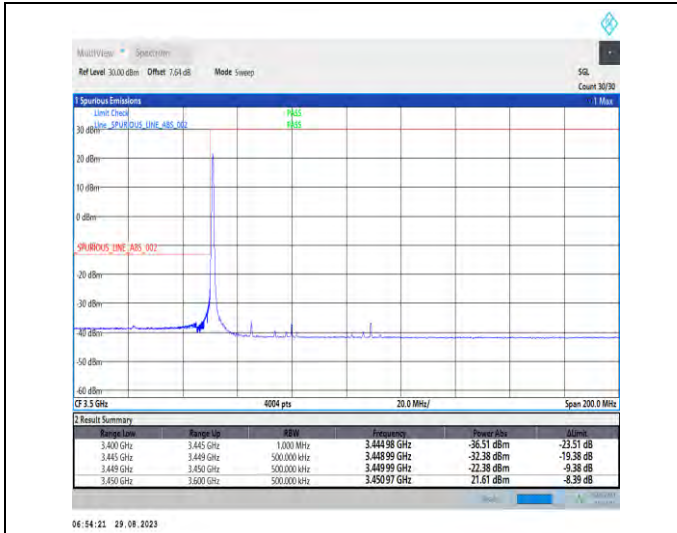


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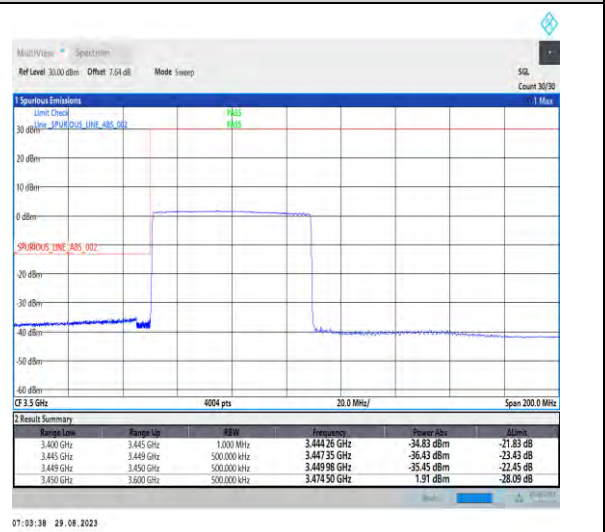
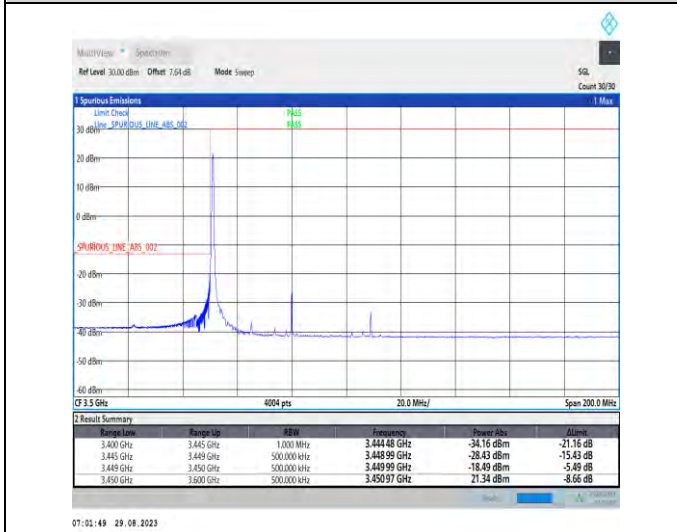
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1-N77-3450-3550-PC2-30-60-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph

1-N77-3450-3550-PC2-30-60-L-3-DFT-PI2BPSK-Outer_Full-162@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-60-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph

1-N77-3450-3550-PC2-30-60-L-6-CP-QPSK-Outer_Full-162@0-Ant5-1--PASS-see graph

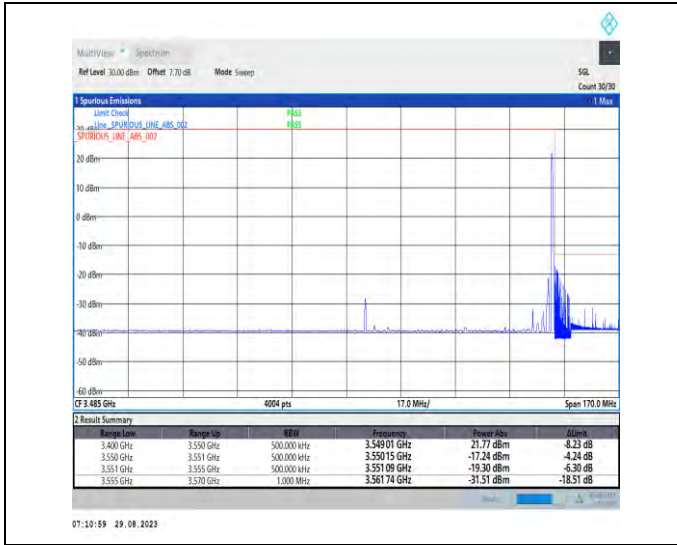


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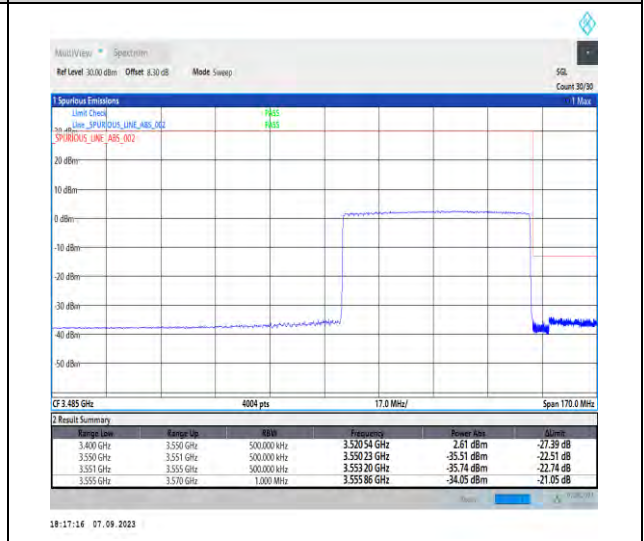
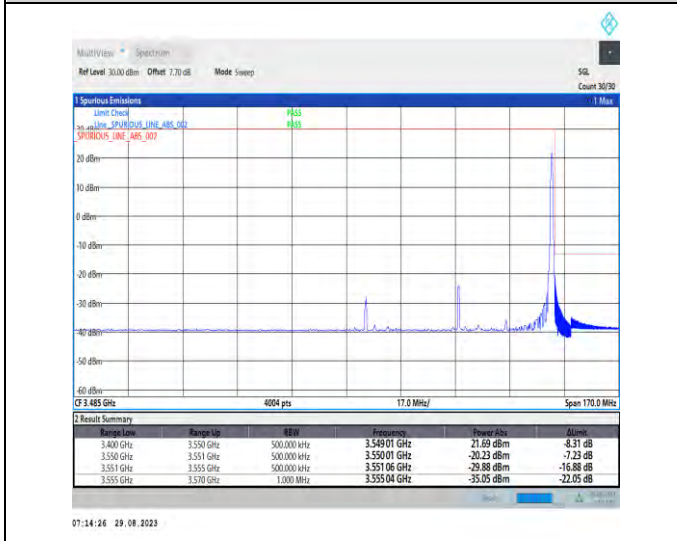
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1-N77-3450-3550-PC2-30-60-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@161-Ant5-1--PASS-see graph

1-N77-3450-3550-PC2-30-60-H-3-DFT-PI2BPSK-Outer_Full-162@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-60-H-5-CP-QPSK-Edge_1RB_Right-1@161-Ant5-1--PASS-see graph

1-N77-3450-3550-PC2-30-60-H-6-CP-QPSK-Outer_Full-162@0-Ant5-1--PASS-see graph

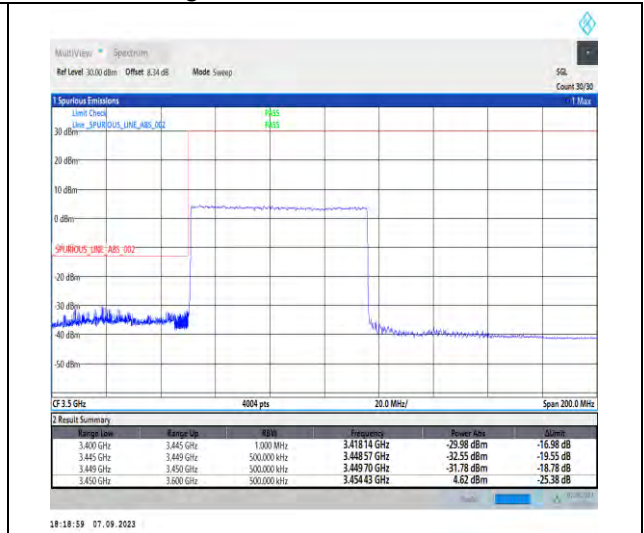
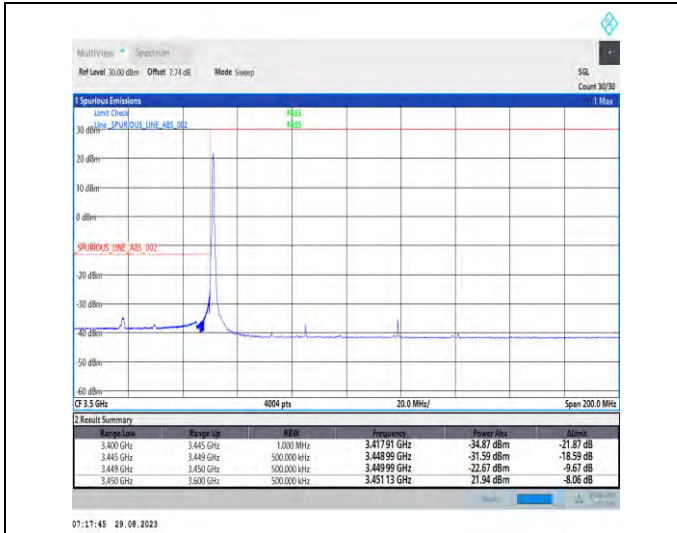


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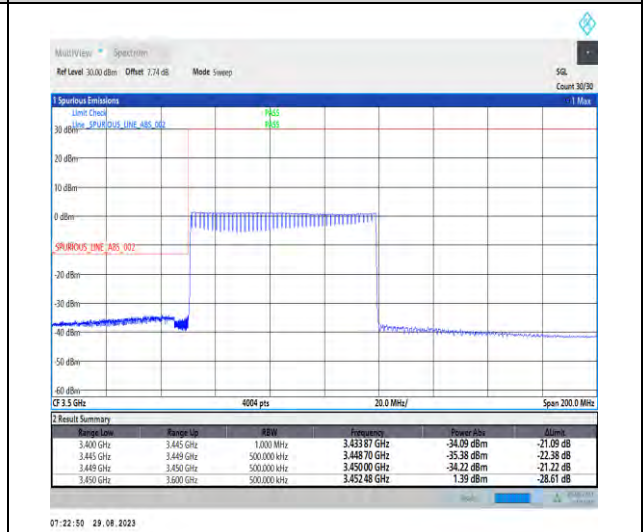
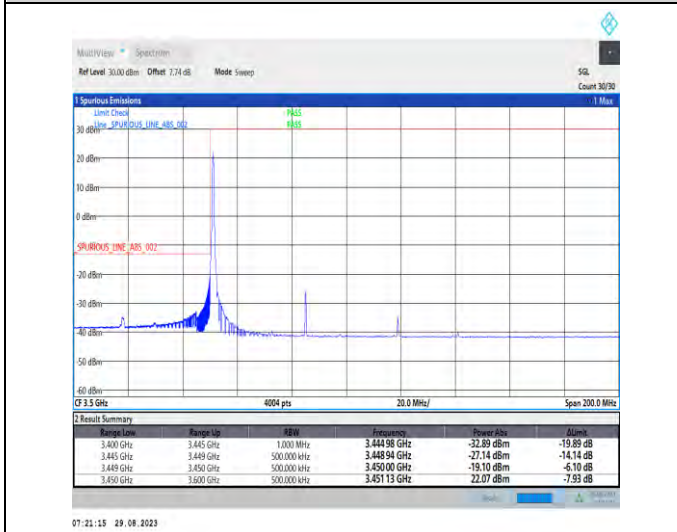
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1-N77-3450-3550-PC2-30-70-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph

1-N77-3450-3550-PC2-30-70-L-3-DFT-PI2BPSK-Outer_Full-180@0-Ant5-1--PASS-see graph



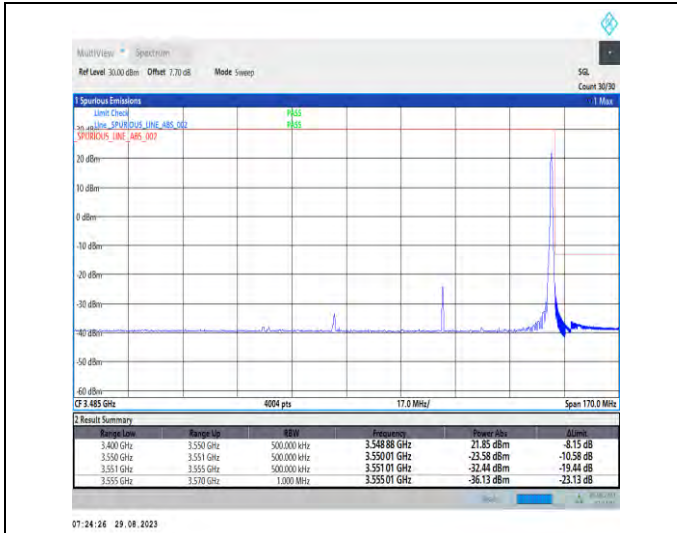
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1-N77-3450-3550-PC2-30-70-L-6-CP-QPSK-Outer_Full-189@0-Ant5-1--PASS-see graph



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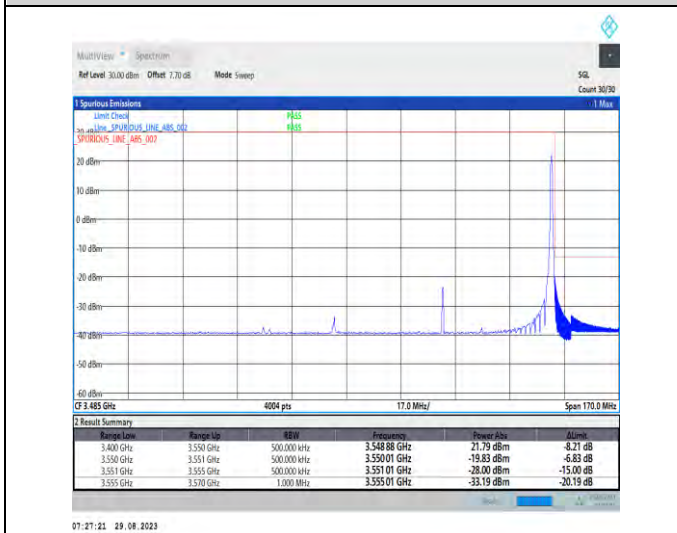
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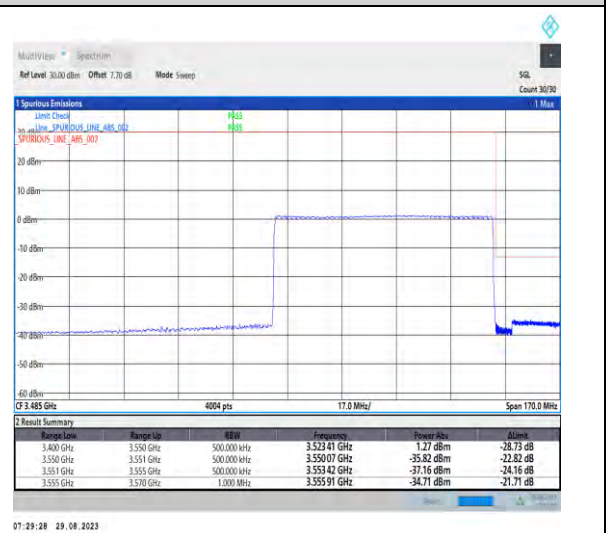
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1-N77-3450-3550-PC2-30-70-H-3-DFT-PI2BPSK-Outer_Full-180@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-70-H-5-CP-QPSK-Edge_1RB_Right-1@188-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-70-H-6-CP-QPSK-Outer_Full-189@0-Ant5-1--PASS-see graph

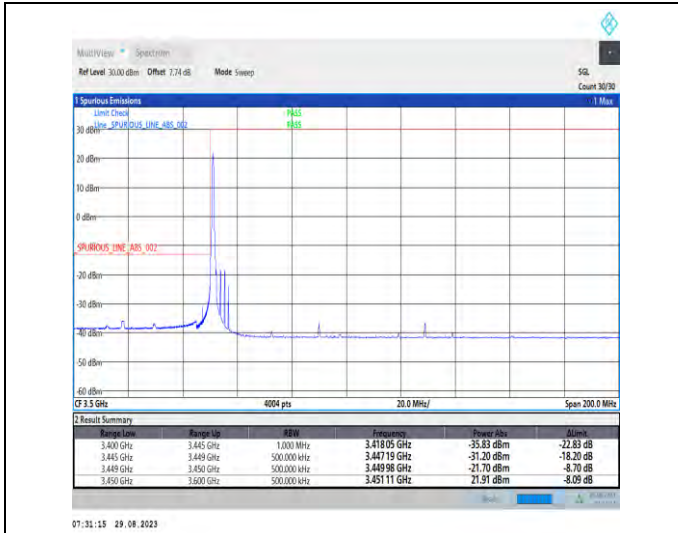


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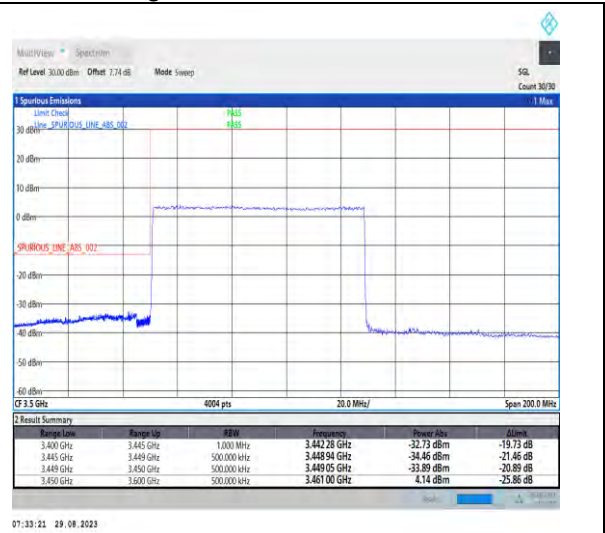
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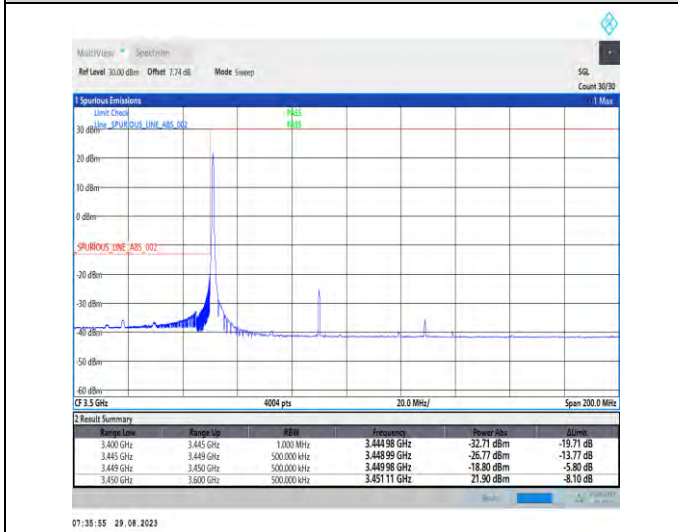
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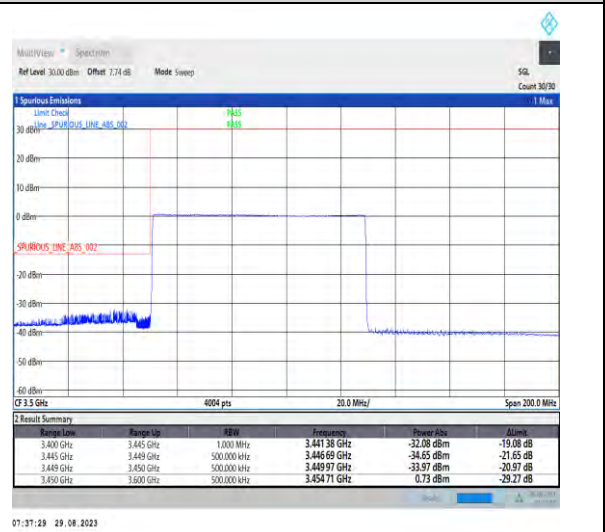
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1-N77-3450-3550-PC2-30-80-L-3-DFT-PI2BPSK-Outer_Full-216@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-80-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-80-L-6-CP-QPSK-Outer_Full-217@0-Ant5-1--PASS-see graph

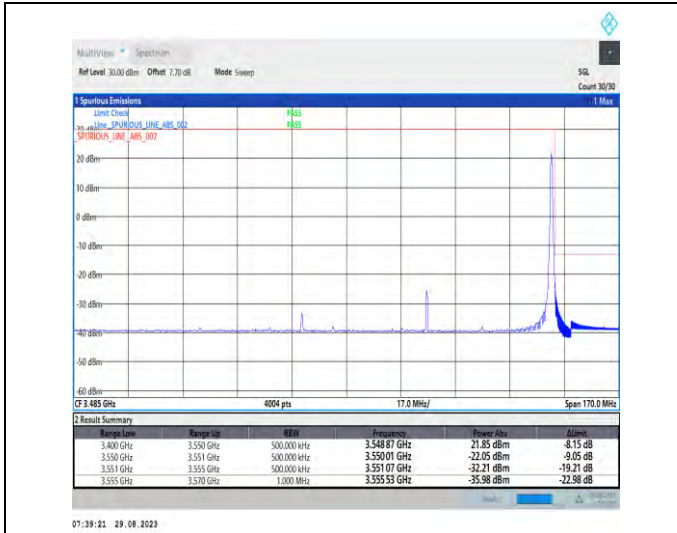


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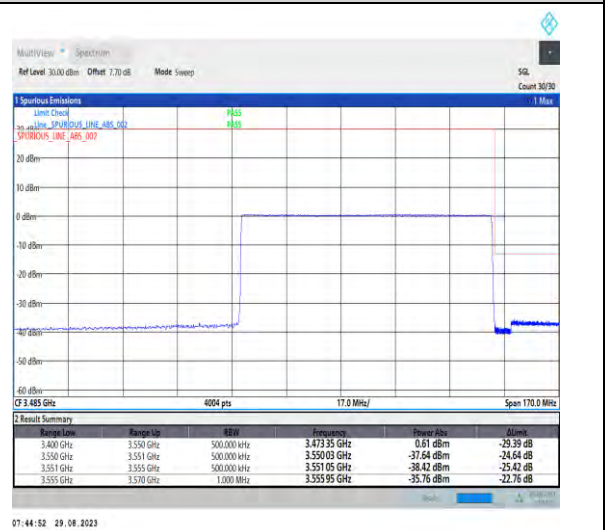
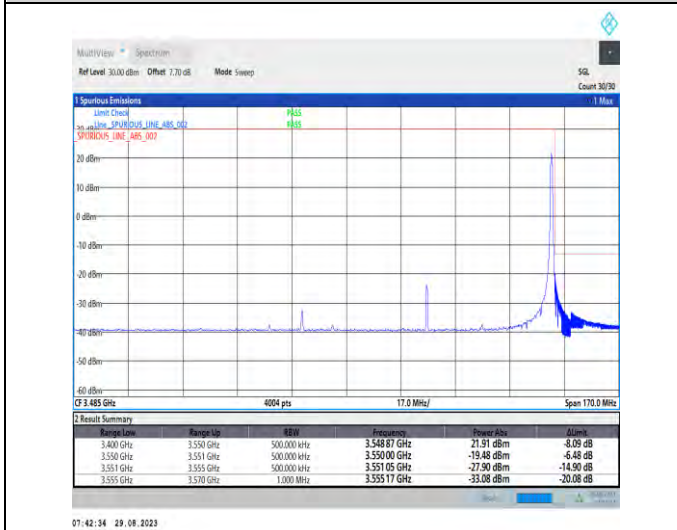
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1-N77-3450-3550-PC2-30-80-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@216-Ant5-1--PASS-see graph

1-N77-3450-3550-PC2-30-80-H-3-DFT-PI2BPSK-Outer_Full-216@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-80-H-5-CP-QPSK-Edge_1RB_Right-1@216-Ant5-1--PASS-see graph

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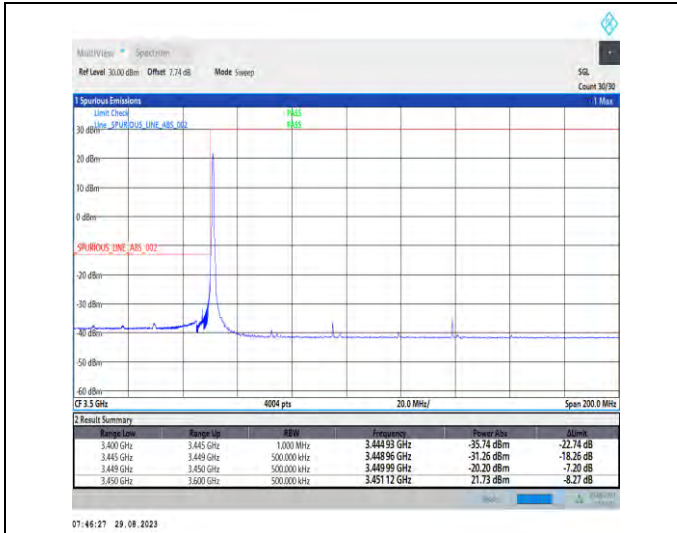


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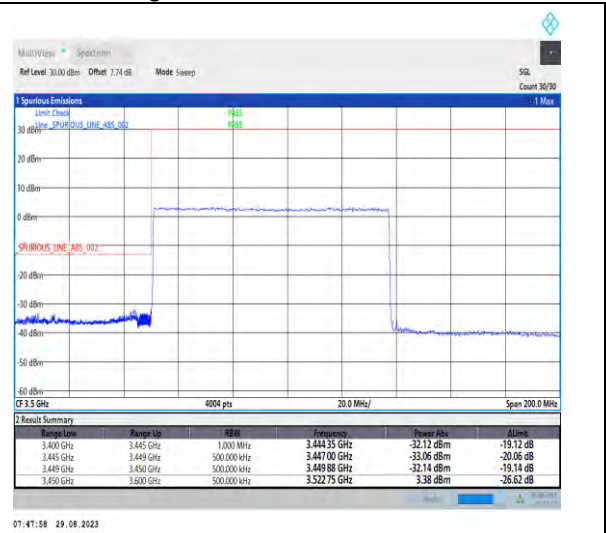
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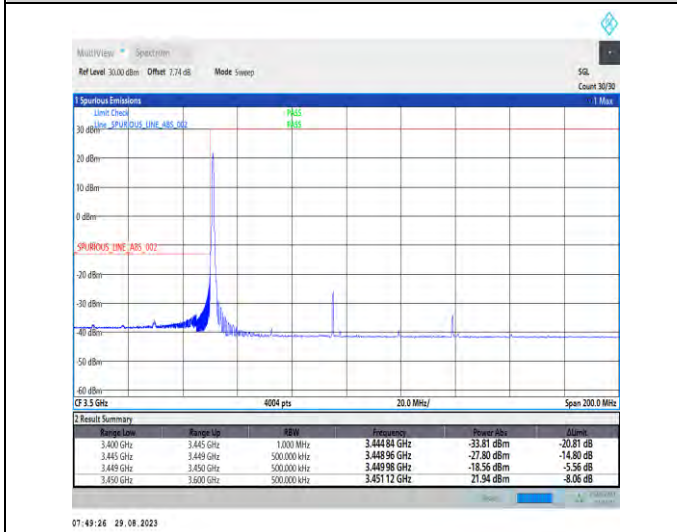
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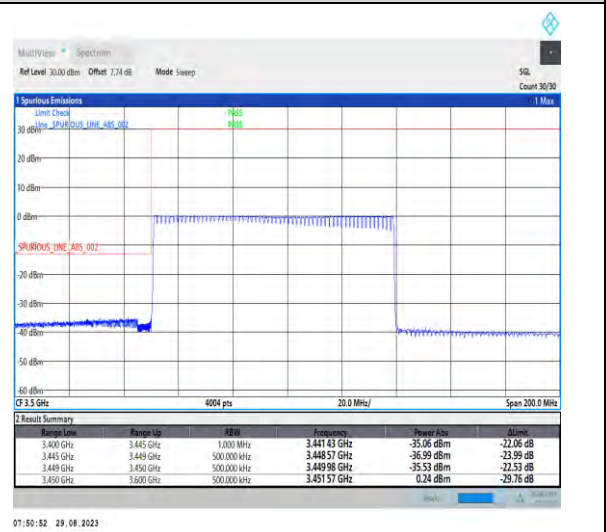
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1-N77-3450-3550-PC2-30-90-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph

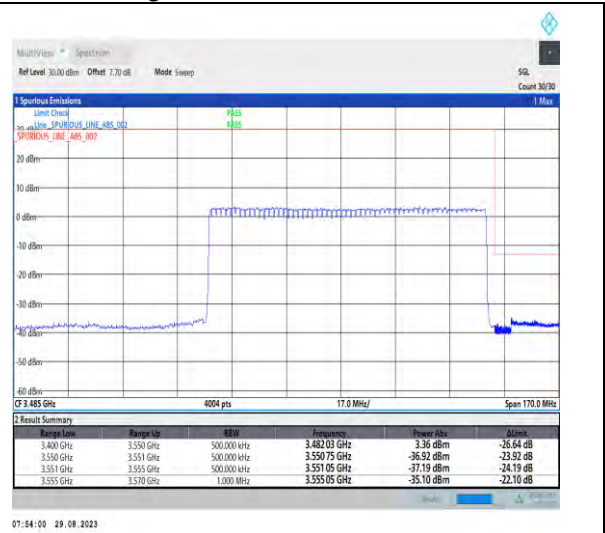
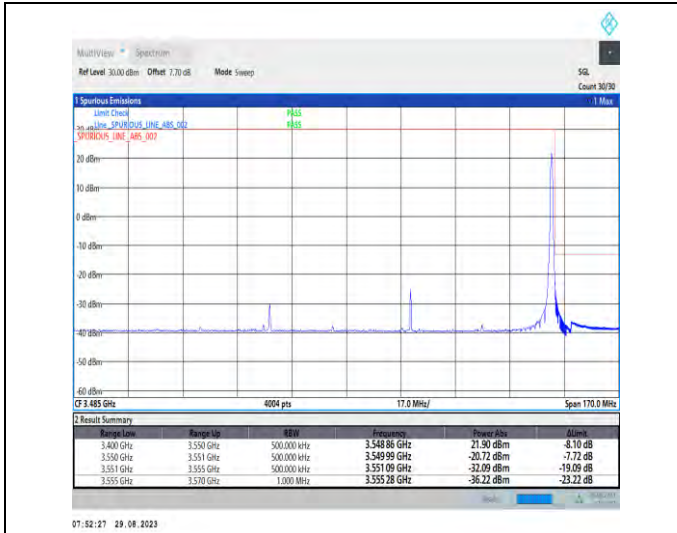


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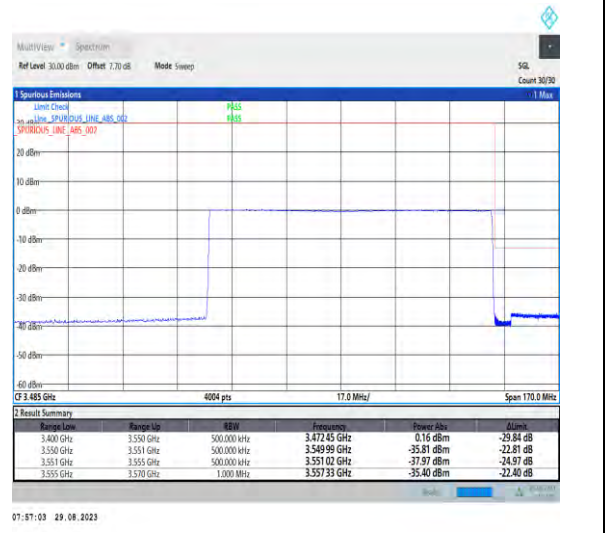
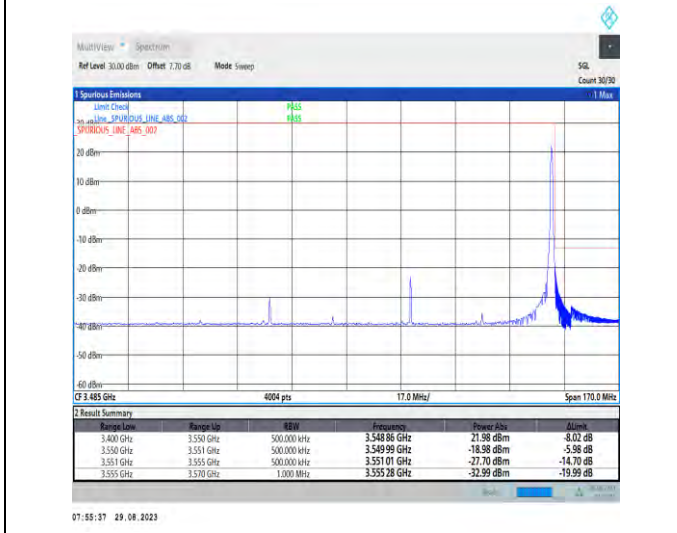
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1-N77-3450-3550-PC2-30-90-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@244-Ant5-1--PASS-see graph

1-N77-3450-3550-PC2-30-90-H-3-DFT-PI2BPSK-Outer_Full-240@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-90-H-5-CP-QPSK-Edge_1RB_Right-1@244-Ant5-1--PASS-see graph

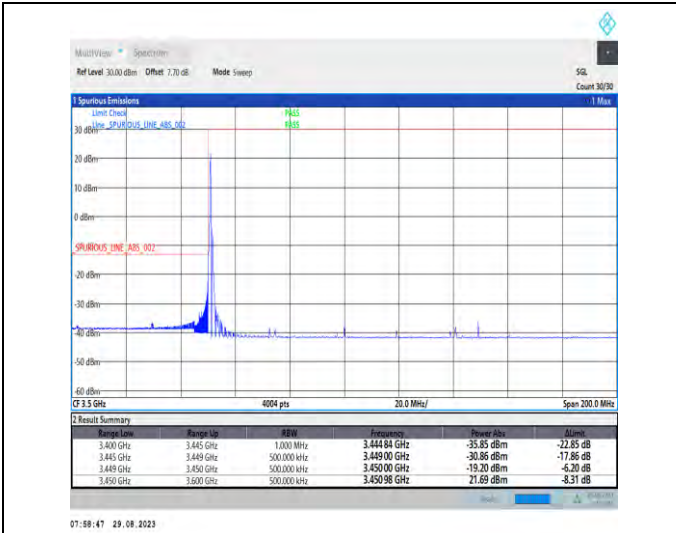
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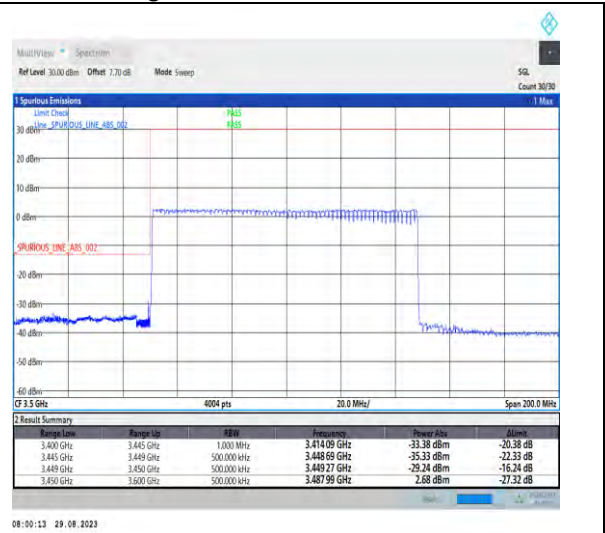
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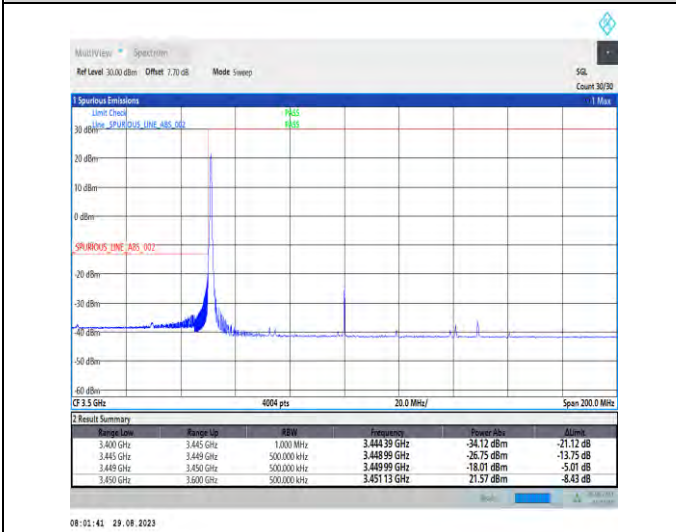
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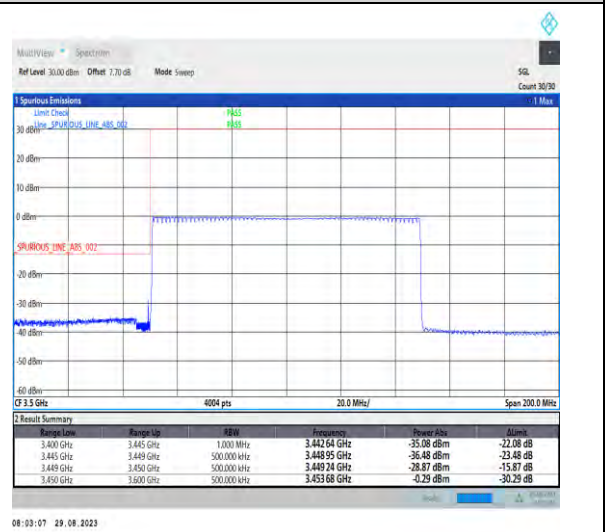
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1-N77-3450-3550-PC2-30-100-L-3-DFT-PI2BPSK-Outer_Full-270@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-100-L-4-CP-QPSK-Edge_1_RB_Left-1@0-Ant5-1--PASS-see graph



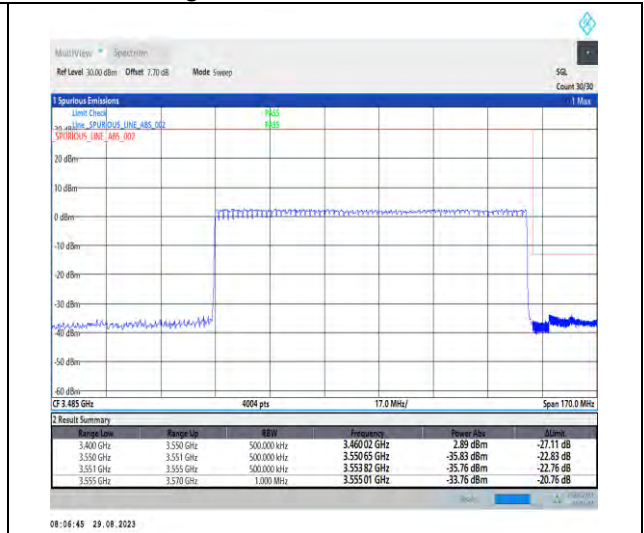
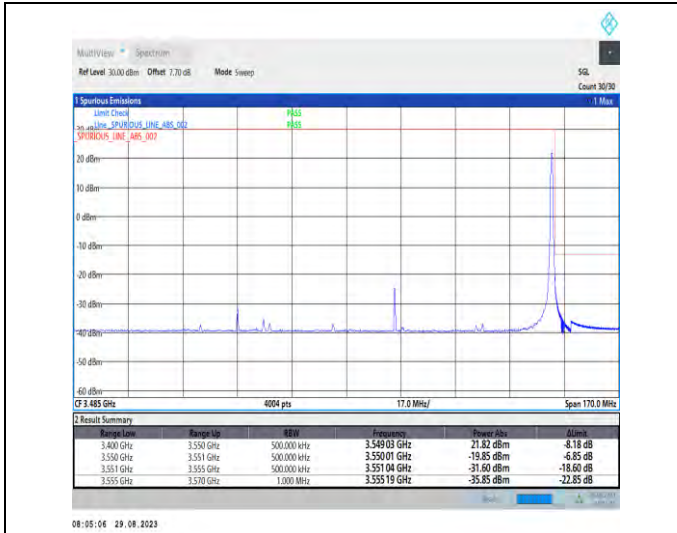
1-N77-3450-3550-PC2-30-100-L-6-CP-QPSK-Outer_Full-273@0-Ant5-1--PASS-see graph



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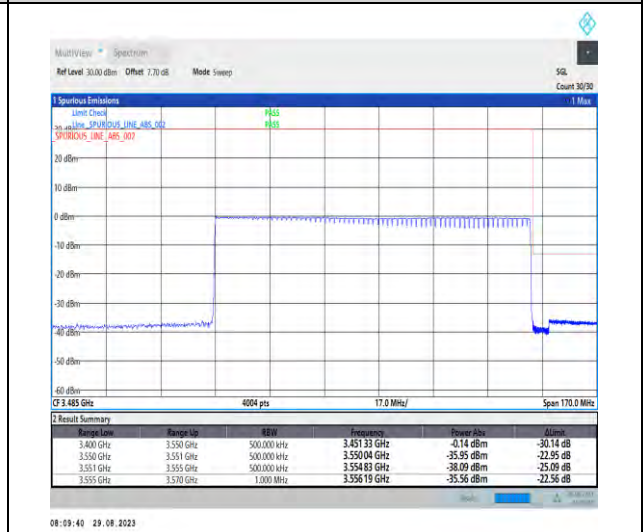
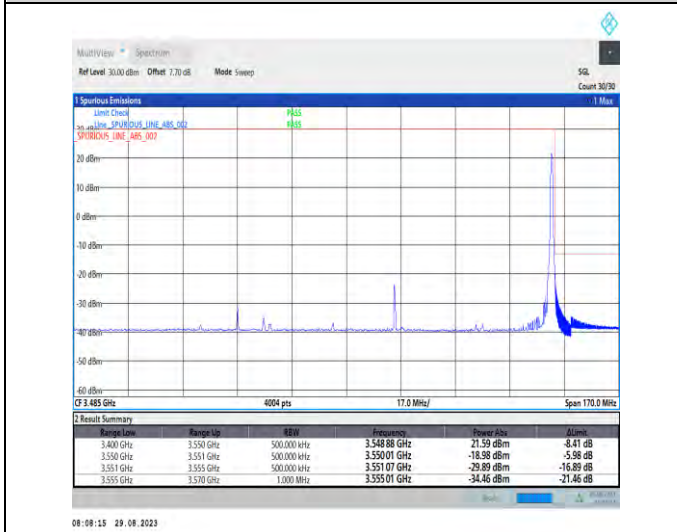
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1-N77-3450-3550-PC2-30-100-H-2-DFT-PI2BPSK-Edge_1_RB_Right-1@272-Ant5-1--PASS-see graph

1-N77-3450-3550-PC2-30-100-H-3-DFT-PI2BPSK-Outer_Full-270@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-100-H-5-CP-QPSK-Edge_1_RB_Right-1@272-Ant5-1--PASS-see graph

1-N77-3450-3550-PC2-30-100-H-6-CP-QPSK-Outer_Full-273@0-Ant5-1--PASS-see graph



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Conducted Spurious Emission for SA

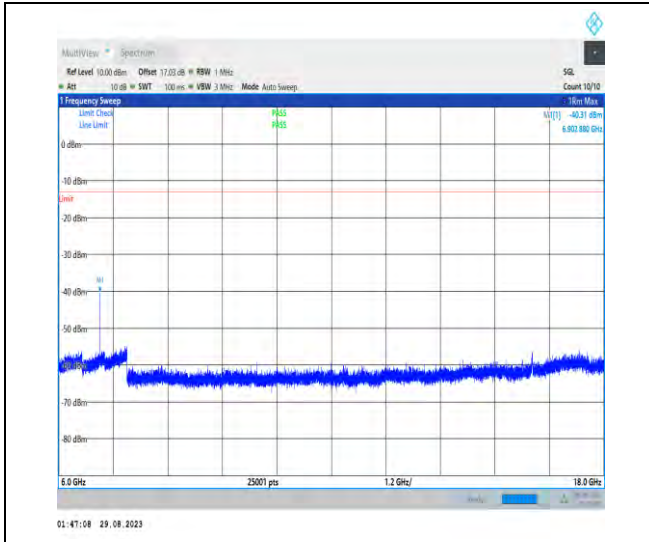
Test Graphs

<p>1-N77-3450-3550-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant5-0.02--81.52--43-PASS</p>	<p>1-N77-3450-3550-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant5-29.70--89.01--33-PA SS</p>
<p>1-N77-3450-3550-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant5-62.50--68.59--13-PASS</p>	<p>1-N77-3450-3550-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant5-5463.00--39.68--13-PASS</p>

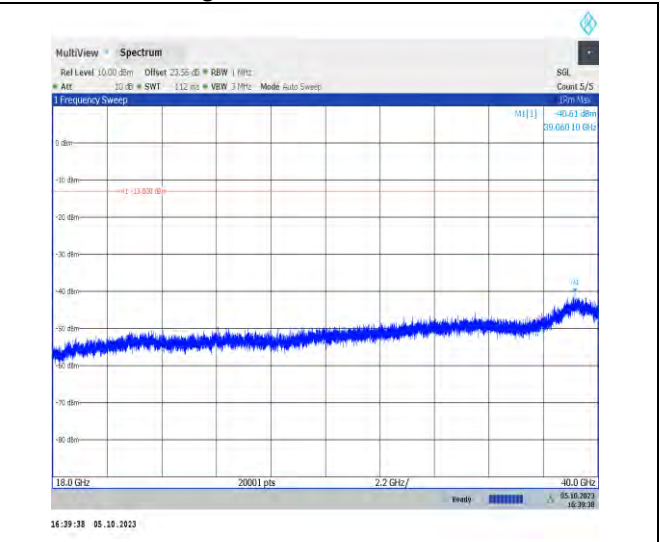


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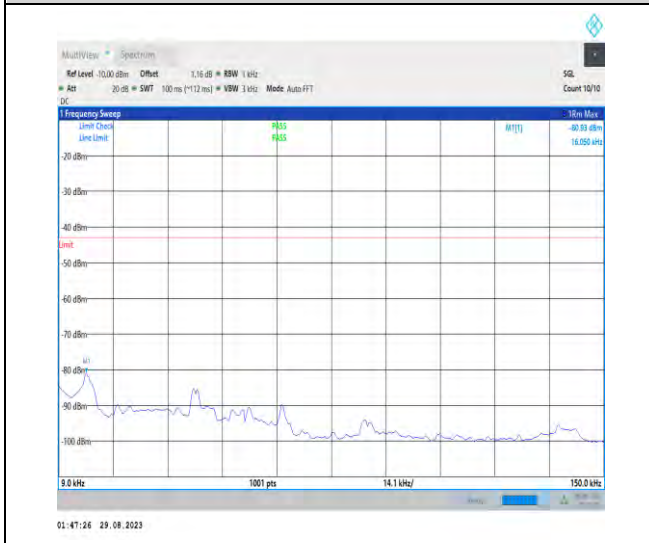
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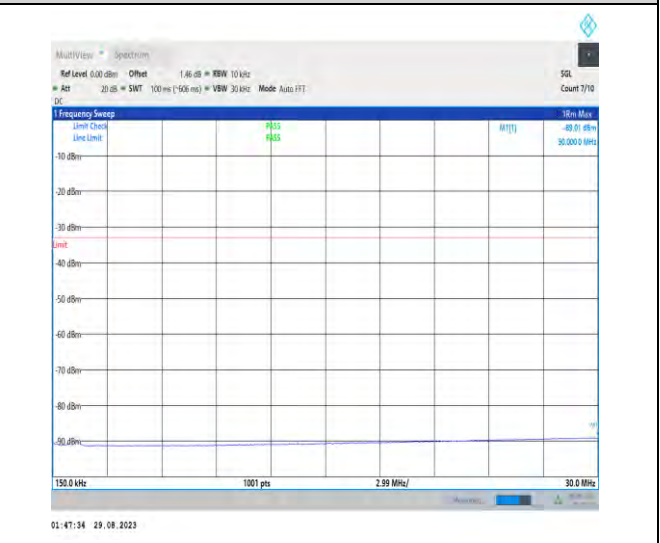
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1--13-PASS



1-N77-3450-3550-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant5-39060.10--40.
61--13-PASS



1-N77-3450-3550-PC2-30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant5-0.02--80.93--43-PASS

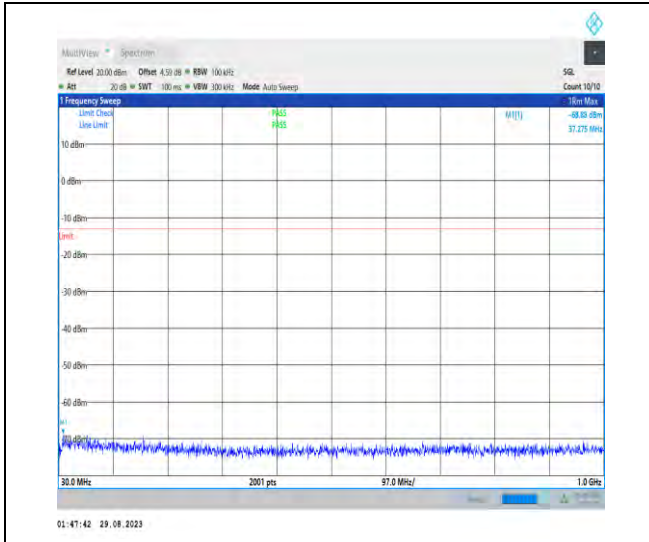


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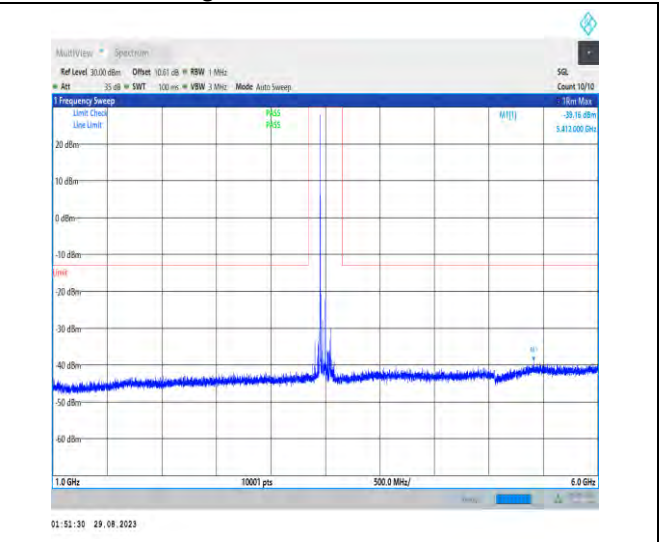


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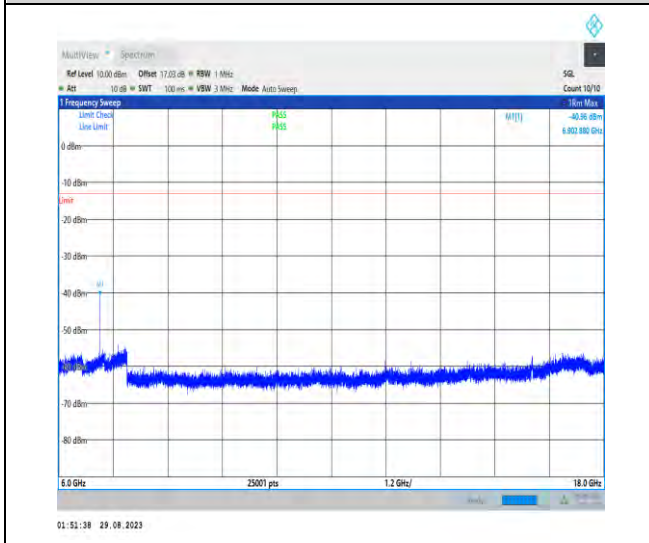
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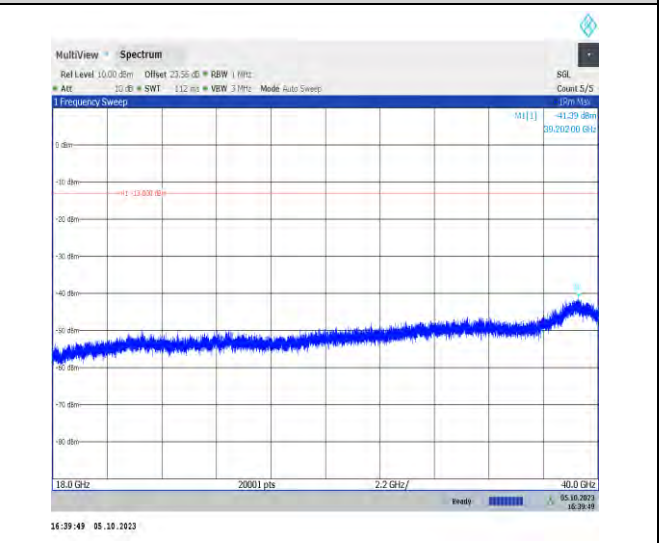
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Inner_1RB_Left-1@1-30-1000-Ant5-37.28--68.88--1
3-PASS



1-N77-3450-3550-PC2-30-100-M-1-DFT-PI2BPSK-
Inner_1RB_Left-1@1-1000-6000-Ant5-5412.00--39.16--
13-PASS



1-N77-3450-3550-PC2-30-100-M-1-DFT-PI2BPSK-
Inner_1RB_Left-1@1-6000-18000-Ant5-6902.88--40.
96--13-PASS



1-N77-3450-3550-PC2-30-100-M-1-DFT-PI2BPSK-
Inner_1RB_Left-1@1-18000-40000-Ant5-39202.00--41
.39--13-PASS



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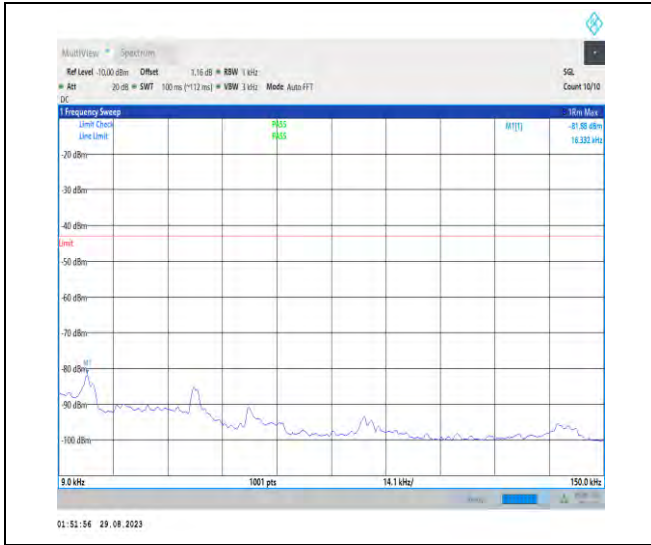
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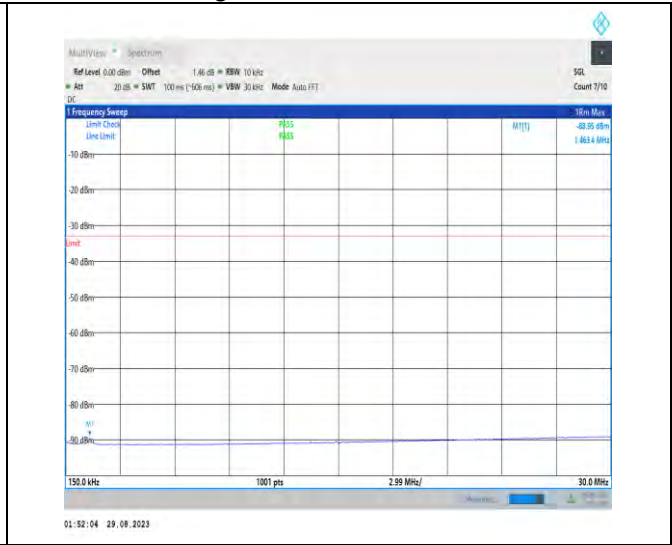
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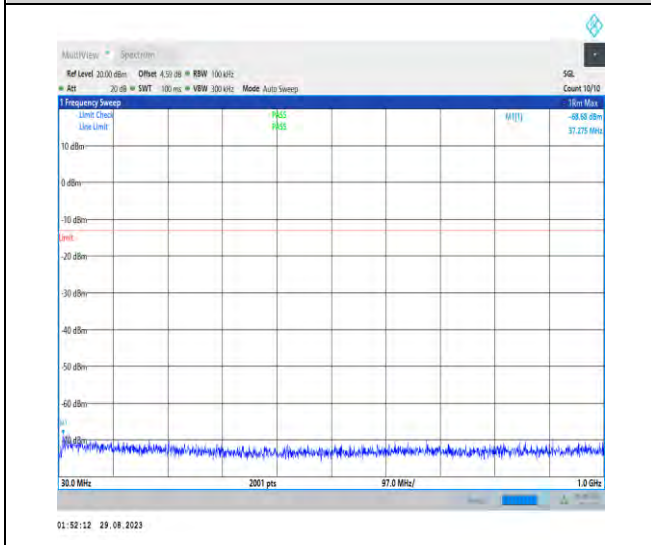
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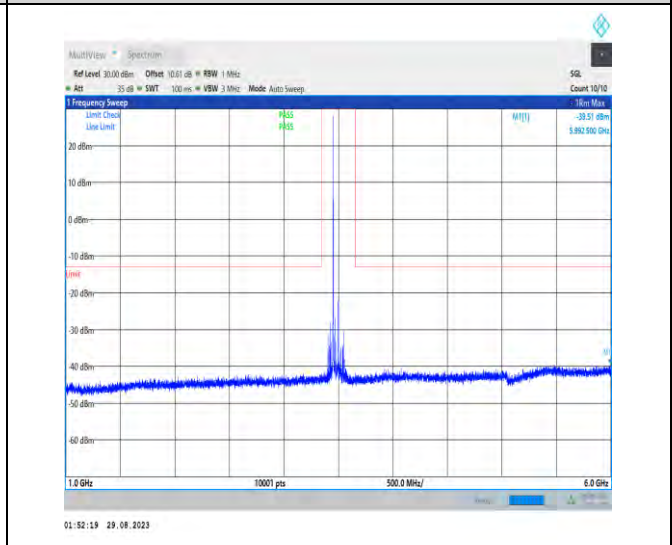
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1-N77-3450-3550-PC2-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant5-1.46--88.95--33-PA SS



1-N77-3450-3550-PC2-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant5-37.28--68.68--13-PASS

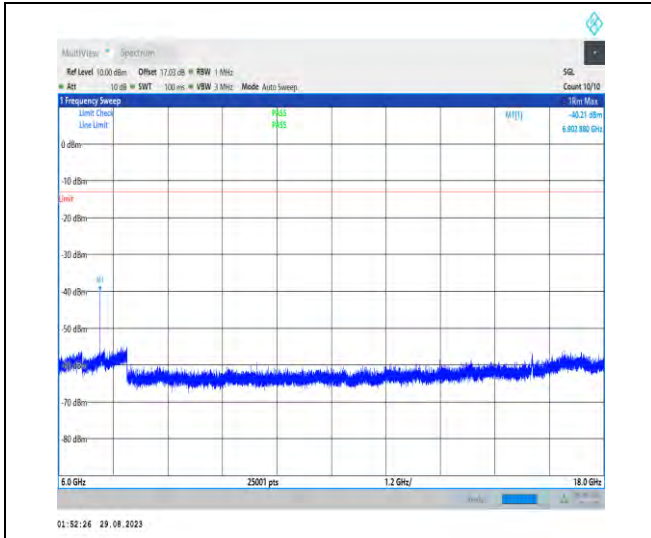


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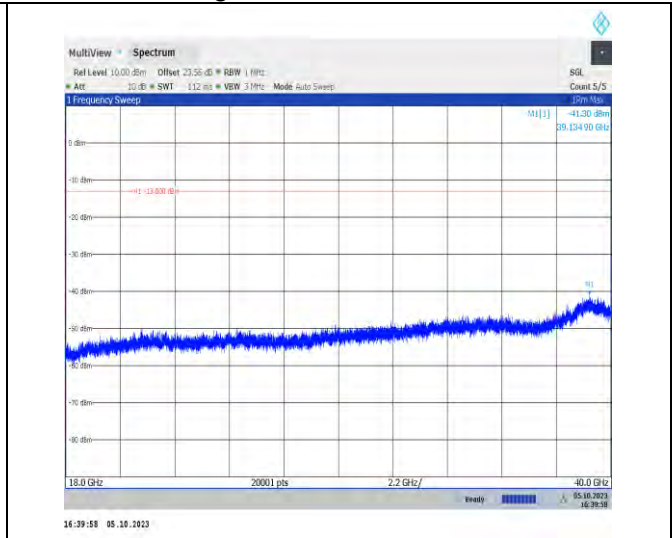


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1-N77-3450-3550-PC2-30-100-H-1-DFT-PI2BPSK-I
 nner_1RB_Left-1@1-6000-18000-Ant5-6902.88--40.
 21--13-PASS



1-N77-3450-3550-PC2-30-100-H-1-DFT-PI2BPSK-In
 ner_1RB_Left-1@1-18000-40000-Ant5-39134.9--41.
 30--13-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band77_100MHz_TM1

Test Channel = Mid 3450-3550

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7268.775	39.74	-43.42	35.95	-62.98	-13.00	49.98	Horizontal
2	7788.575	40.10	-42.62	36.72	-61.07	-13.00	48.07	Horizontal
3	9444.575	36.13	-39.94	37.14	-61.92	-13.00	48.92	Horizontal
4	10698.075	32.67	-37.50	38.55	-61.54	-13.00	48.54	Horizontal
5	12726.1	29.71	-36.78	39.02	-63.31	-13.00	50.31	Horizontal
6	14631.075	28.71	-35.17	41.15	-60.56	-13.00	47.56	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7982.35	38.57	-42.24	36.79	-62.13	-13.00	49.13	Vertical
2	8812.075	37.88	-41.11	36.39	-62.10	-13.00	49.10	Vertical
3	9425.6	36.24	-39.93	37.11	-61.84	-13.00	48.84	Vertical
4	10805.025	32.62	-38.44	38.60	-62.47	-13.00	49.47	Vertical
5	12500.7	28.92	-36.95	38.95	-64.34	-13.00	51.34	Vertical
6	14490.775	27.68	-34.31	41.10	-60.79	-13.00	47.79	Vertical



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Test Band = NSA 2A-N77A_ TM1
Test Channel = Mid 3450-3550

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6910.1800	39.43	-43.80	35.04	-64.60	-13.00	51.60	Horizontal
2	8379.1	39.04	-41.47	36.61	-61.08	-13.00	48.08	Horizontal
3	10365.2700	33.51	-38.81	38.38	-62.17	-13.00	49.17	Horizontal
4	13820.3600	28.45	-36.11	40.58	-62.34	-13.00	49.34	Horizontal
5	15154.325	28.43	-34.09	40.98	-59.94	-13.00	46.94	Horizontal
6	17275.4500	28.98	-35.16	43.54	-57.90	-13.00	44.90	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6910.1800	39.57	-43.80	35.04	-64.46	-13.00	51.46	Vertical
2	8380.25	38.83	-41.47	36.61	-61.29	-13.00	48.29	Vertical
3	10365.2700	33.61	-38.81	38.38	-62.07	-13.00	49.07	Vertical
4	12270.7	31.05	-36.78	38.88	-62.11	-13.00	49.11	Vertical
5	13820.3600	28.35	-36.11	40.58	-62.44	-13.00	49.44	Vertical
6	17275.4500	29.76	-35.16	43.54	-57.12	-13.00	44.12	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-1.800000	-0.000514	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-5.900000	-0.001686	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	0.400000	0.000114	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	VH	NT	-1.700000	-0.000486	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	VN	NT	-3.900000	-0.001114	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	VL	NT	-3.900000	-0.001114	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-4.400000	-0.001257	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-2.400000	-0.000686	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-3.900000	-0.001114	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-6.700000	-0.001914	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-6.100000	-0.001743	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-7.100000	-0.002029	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-6.000000	-0.001714	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-2.600000	-0.000743	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-12.800000	-0.003657	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-30	-2.500000	-0.000714	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-20	-3.100000	-0.000886	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-10	-5.800000	-0.001657	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	0	-1.400000	-0.000400	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	10	-4.900000	-0.001400	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	20	-2.800000	-0.000800	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	30	-3.600000	-0.001029	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	40	-1.800000	-0.000514	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	50	-1.400000	-0.000400	PASS

---End of Attachment---



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