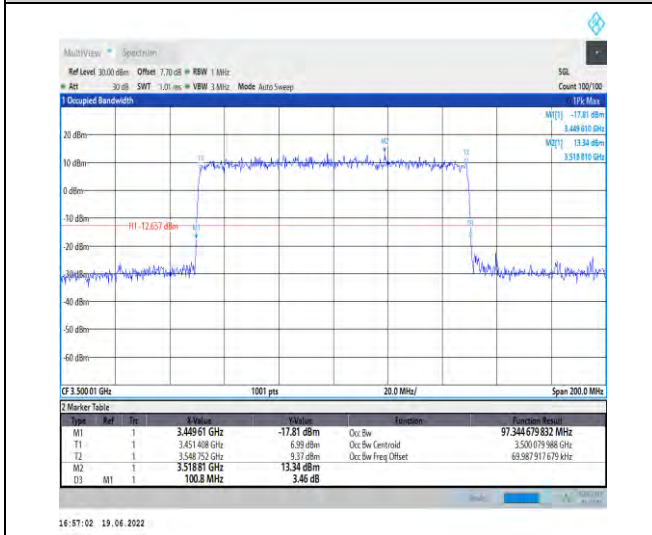


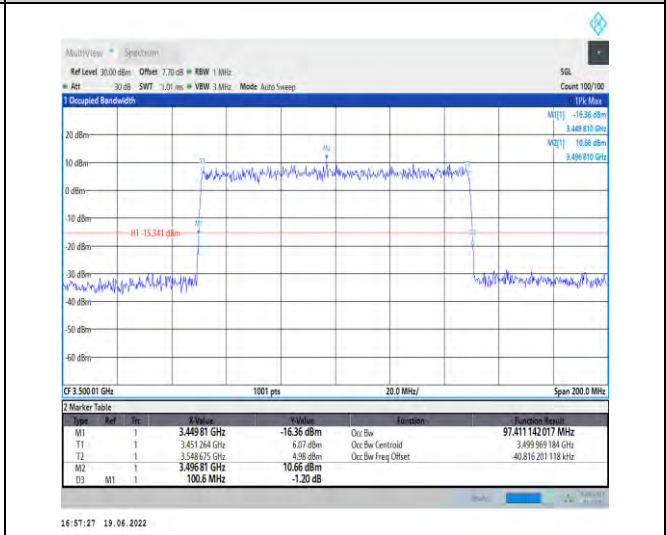
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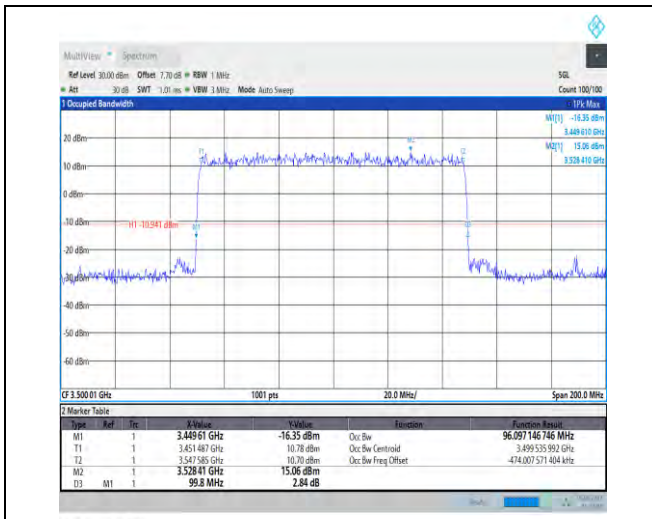


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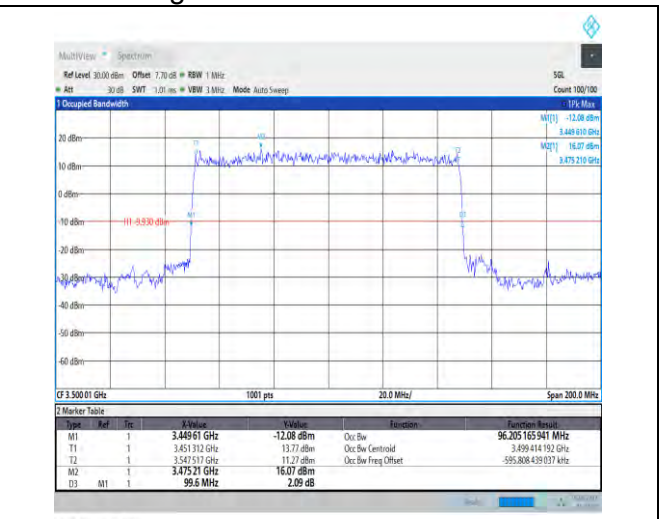
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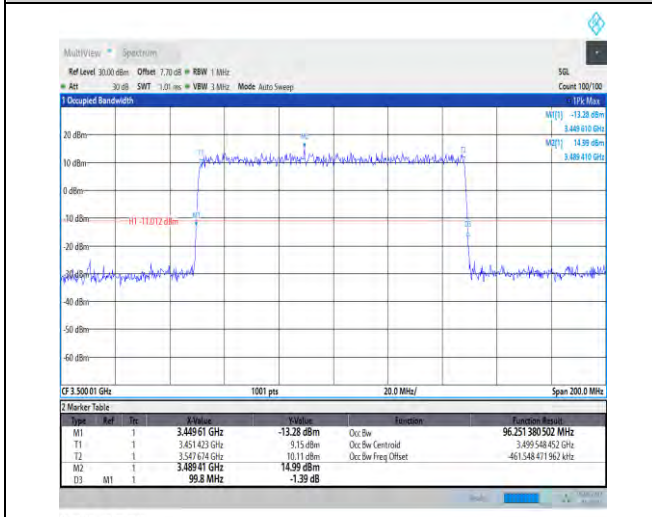
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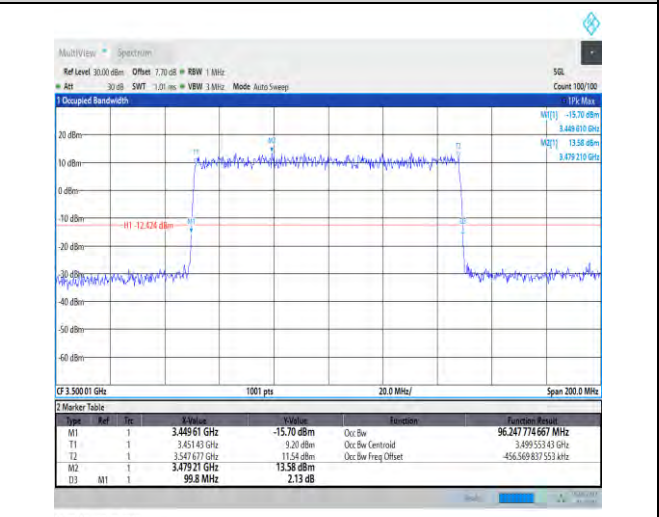
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16:58:26 19.06.2022

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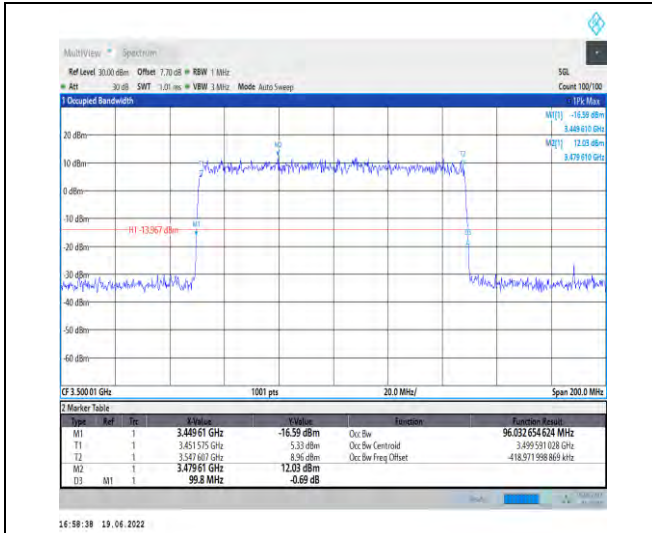


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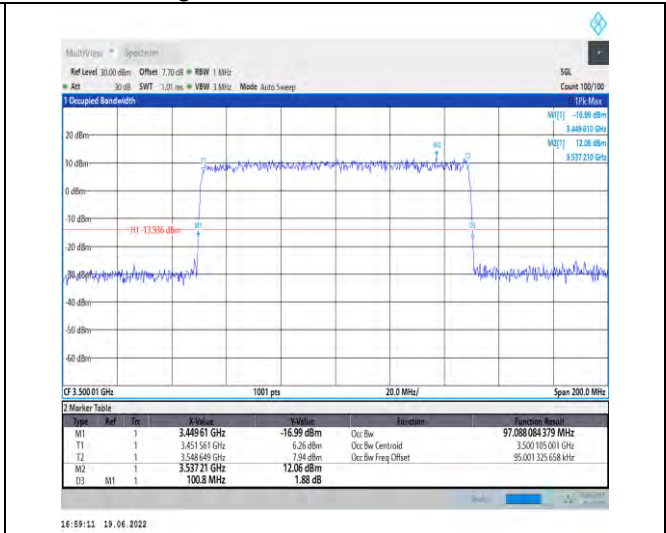
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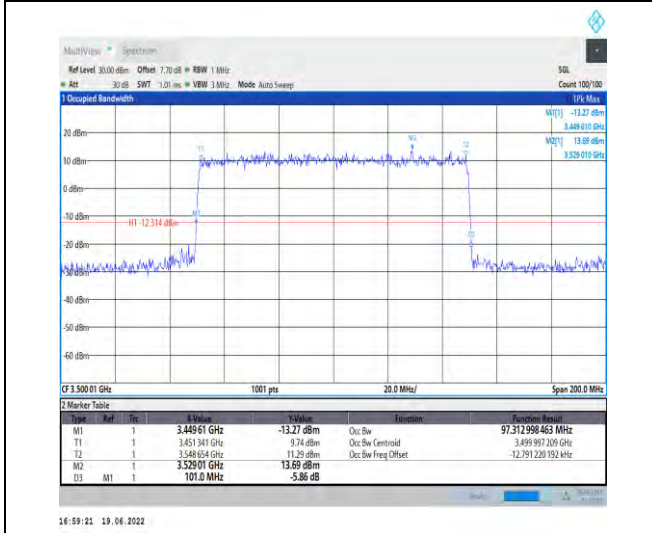
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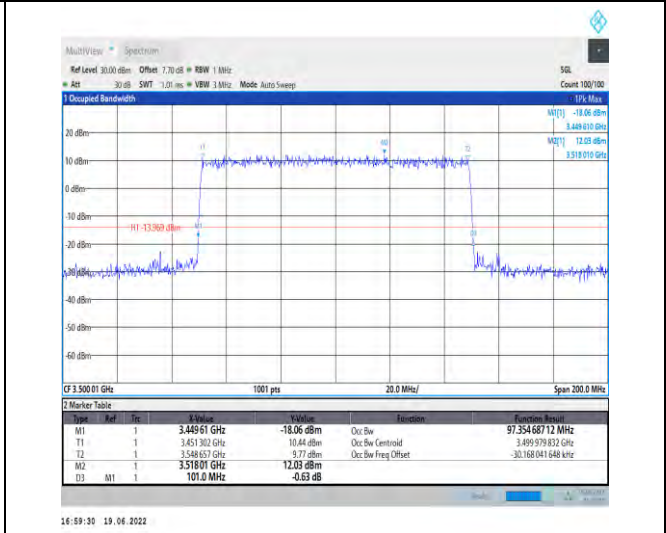
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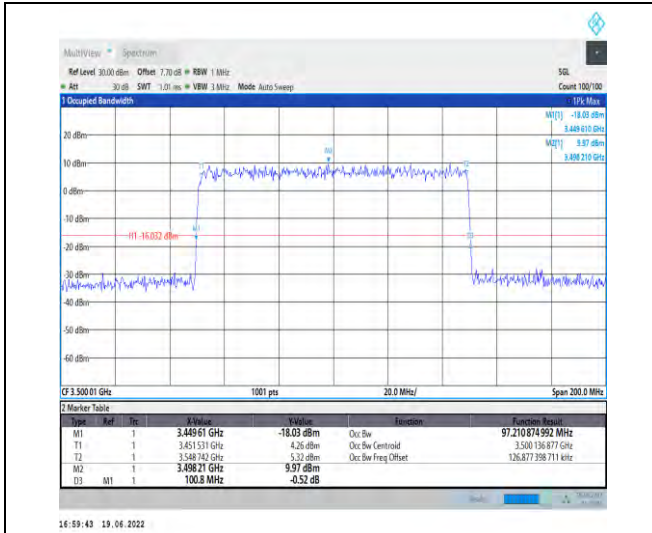


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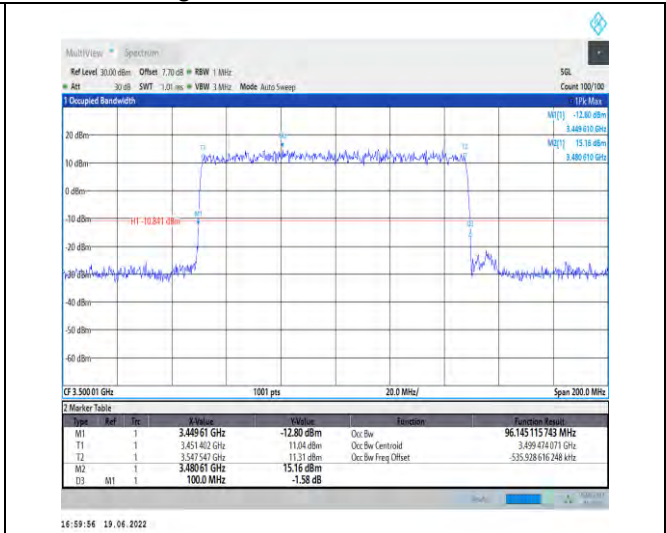
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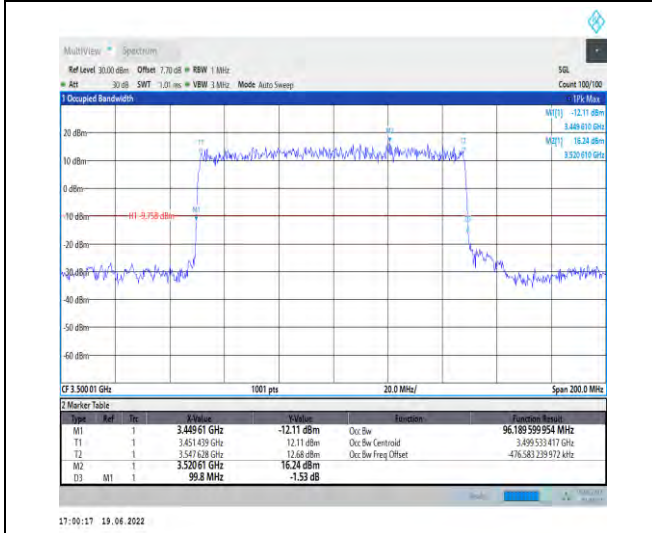
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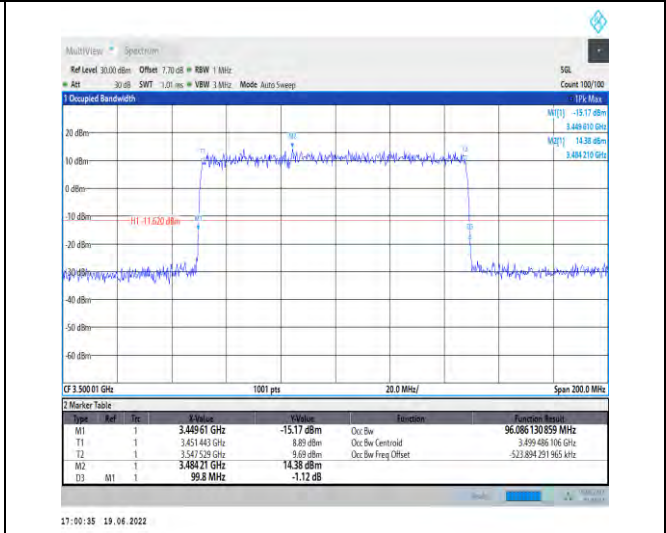
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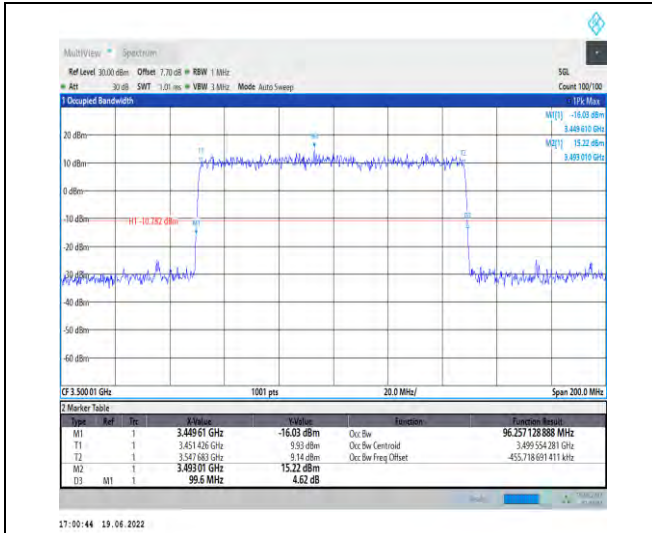


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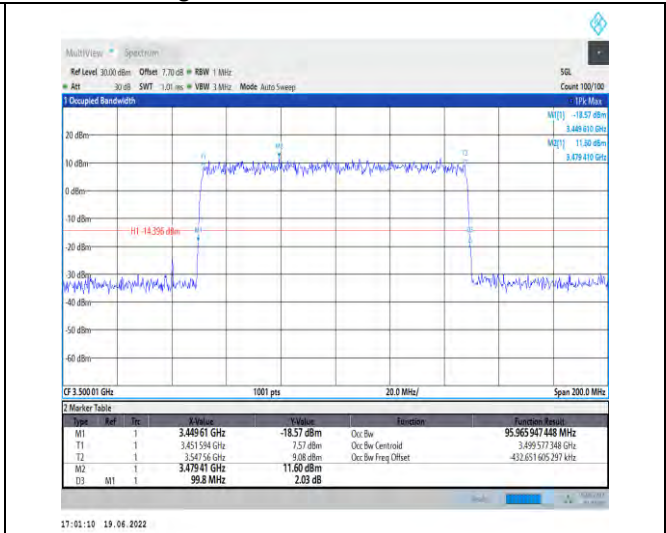
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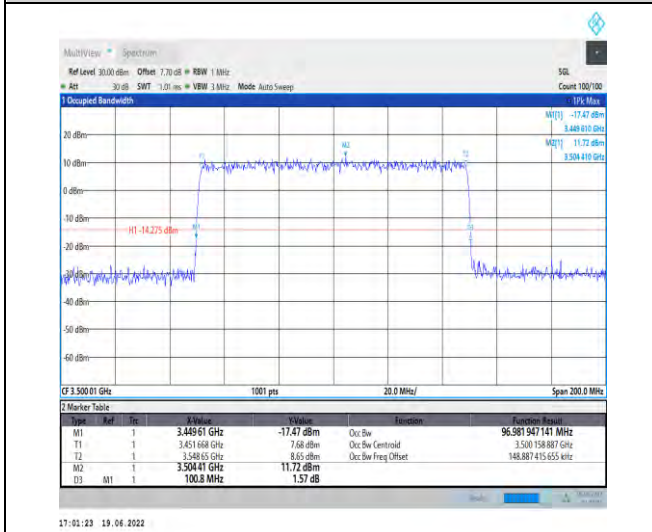
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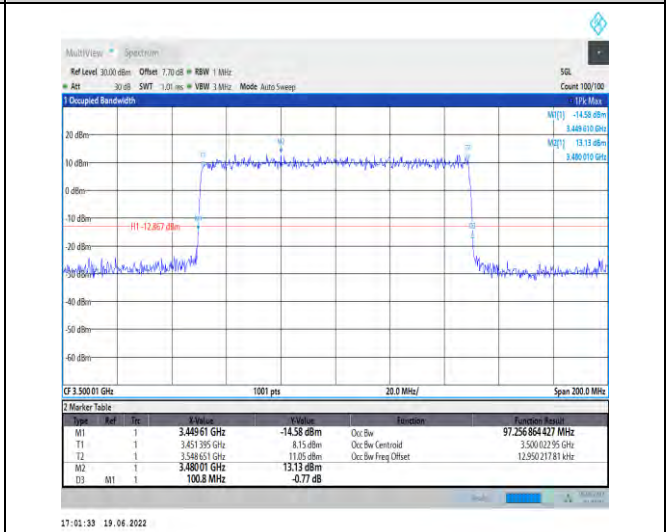
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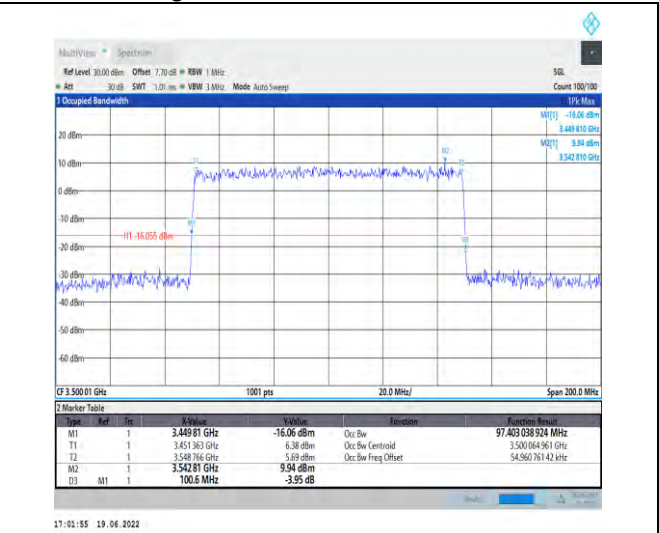
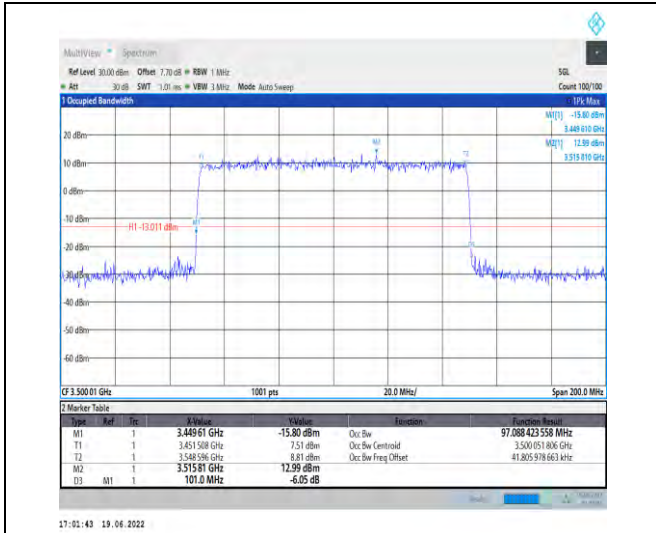


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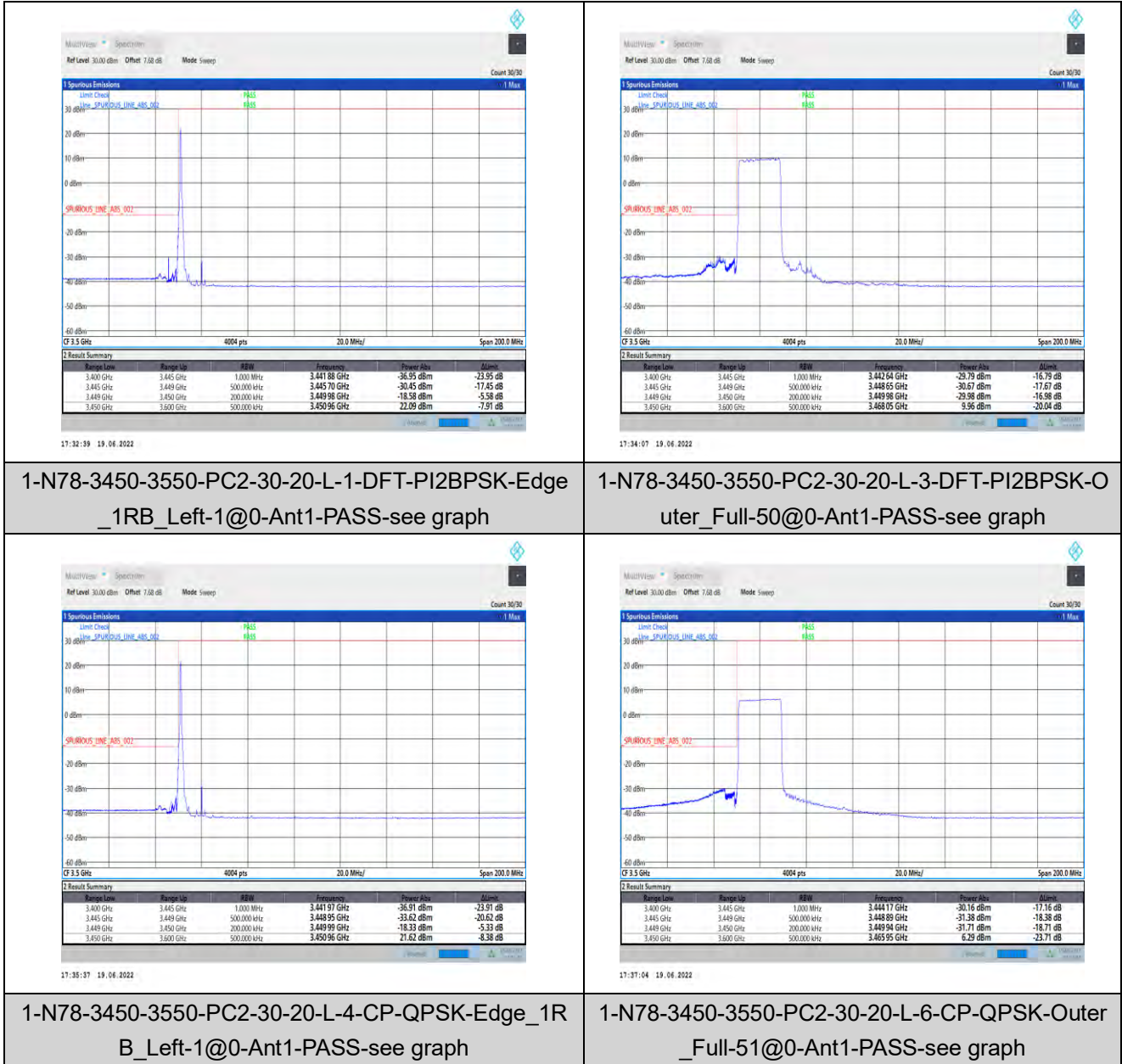
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Band Edge for SA

Test Graphs

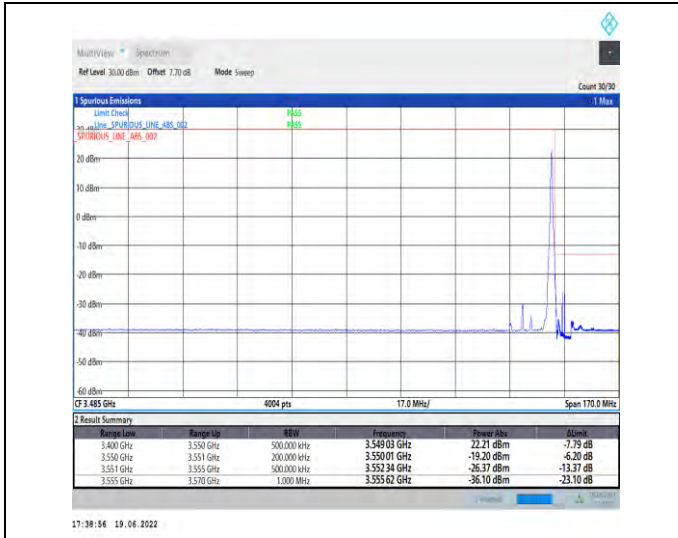


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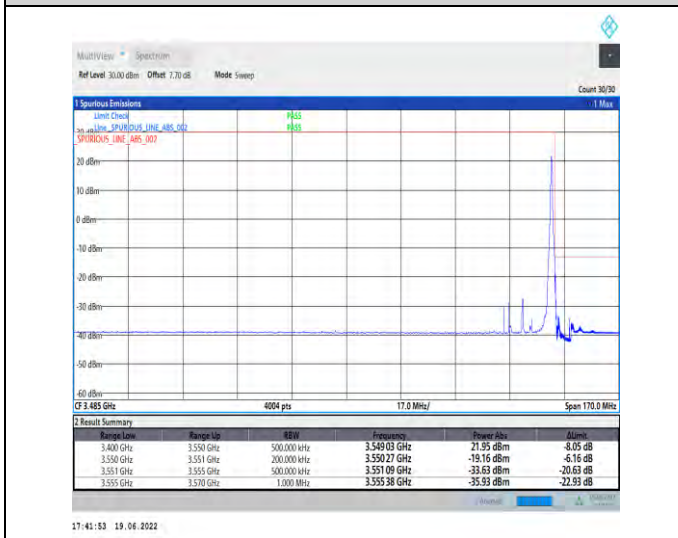
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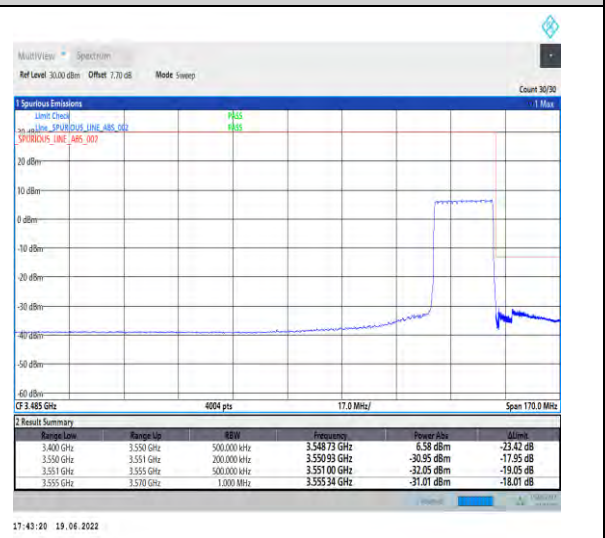
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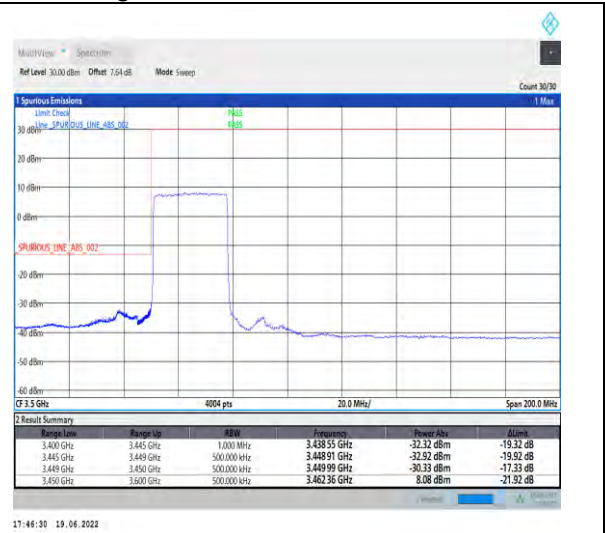
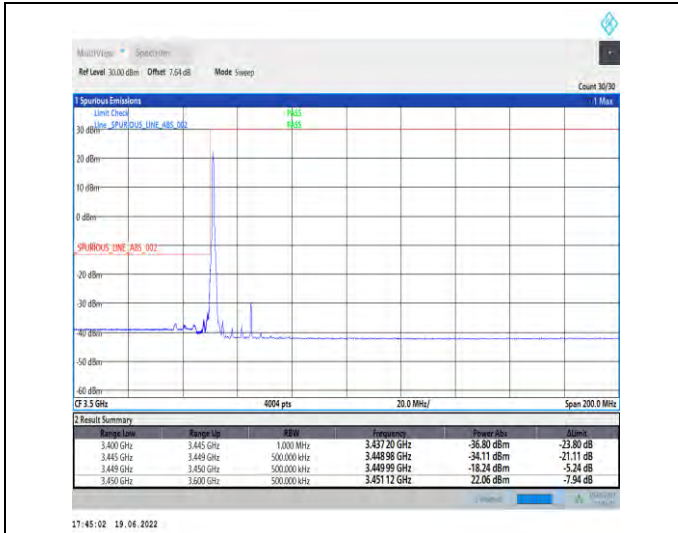


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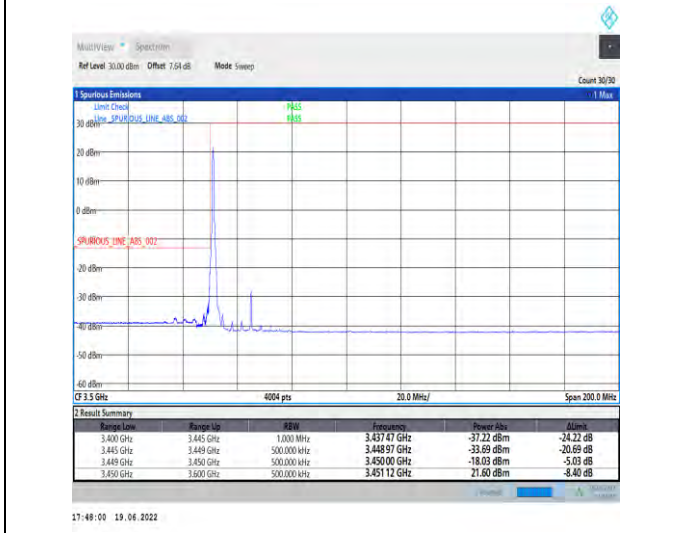
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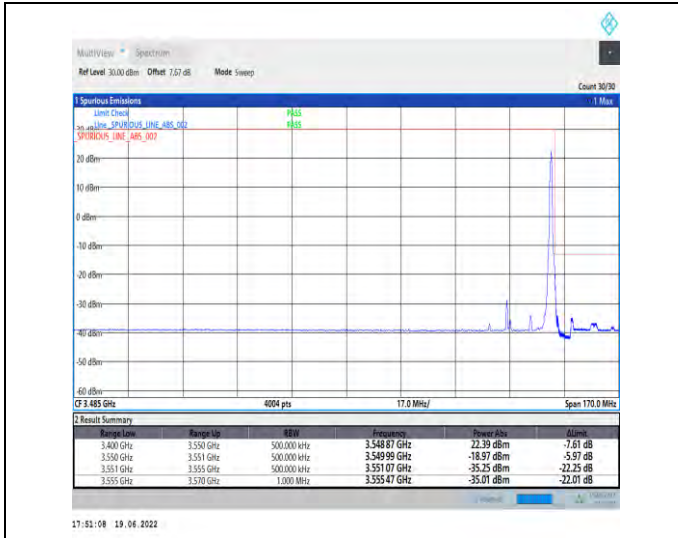
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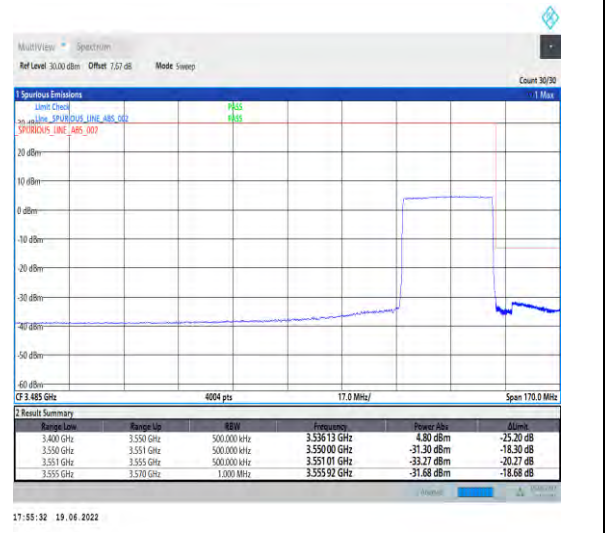
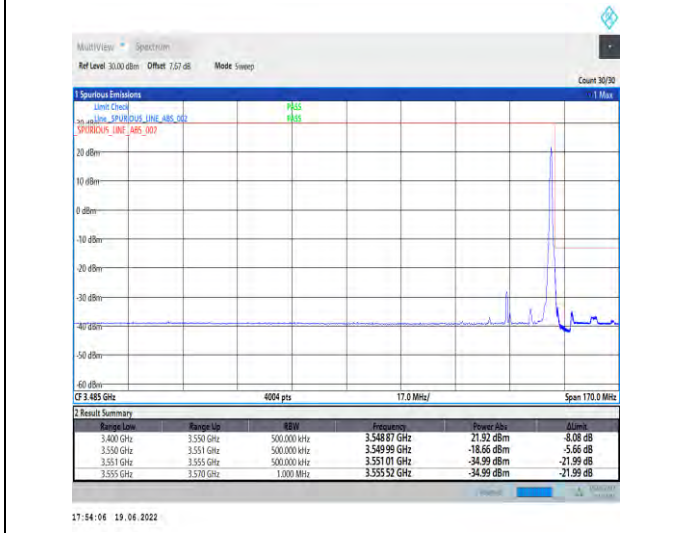
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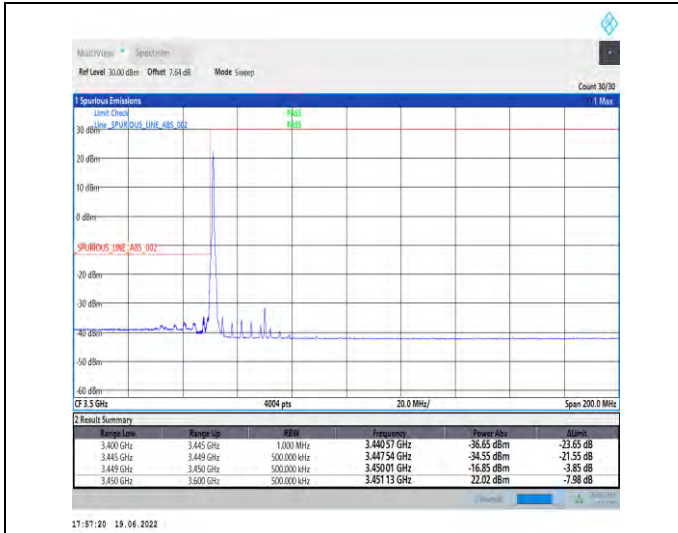
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1-N78-3450-3550-PC2-30-30-H-5-CP-QPSK-Edge_1RB_Right-1@77-Ant1-PASS-see graph

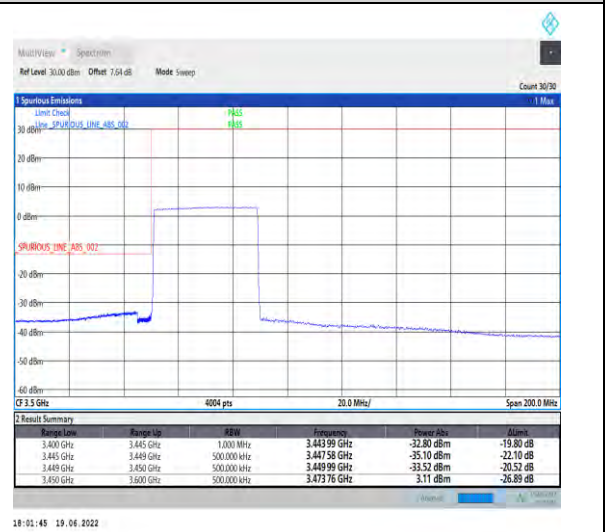
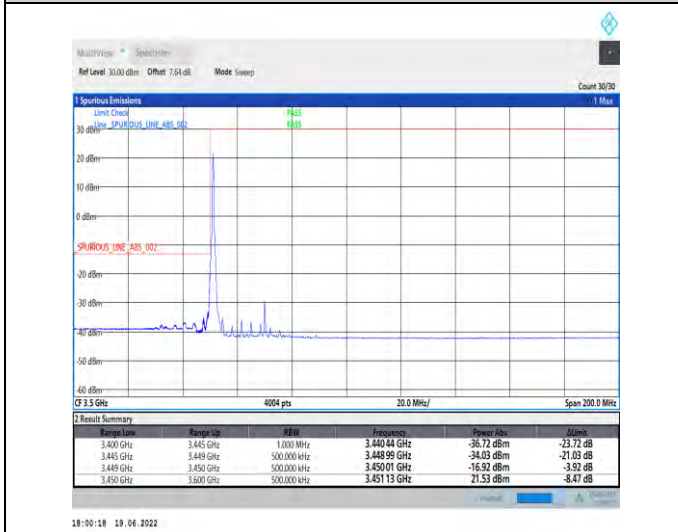
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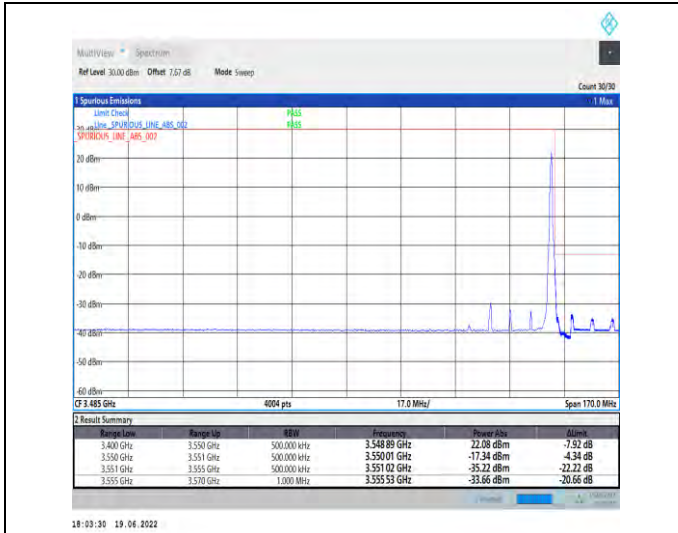
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1-N78-3450-3550-PC2-30-40-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph

1-N78-3450-3550-PC2-30-40-L-6-CP-QPSK-Outer_Full-106@0-Ant1-PASS-see graph

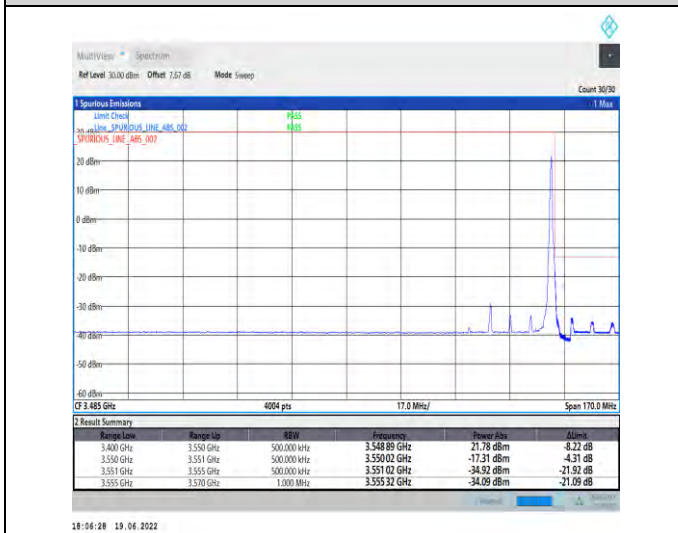




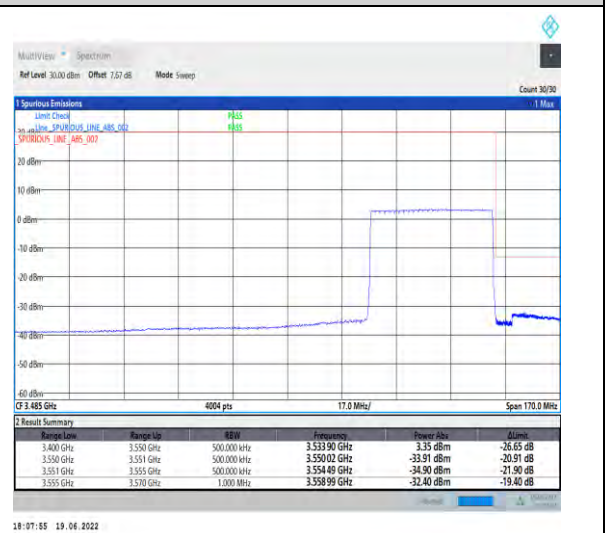
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1-N78-3450-3550-PC2-30-40-H-3-DFT-PI2BPSK-Outer_Full-100@0-Ant1-PASS-see graph

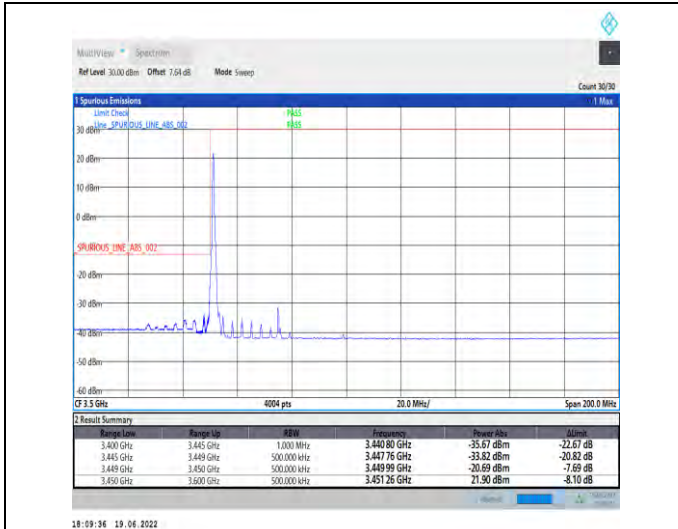


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1-N78-3450-3550-PC2-30-40-H-6-CP-QPSK-Outer_Full-106@0-Ant1-PASS-see graph

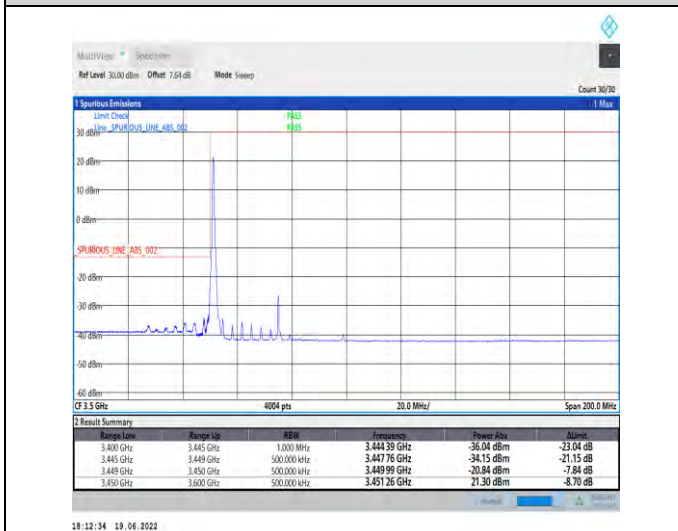




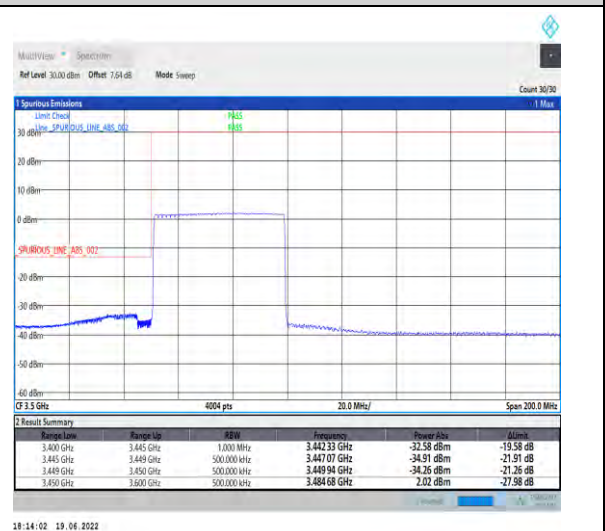
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1-N78-3450-3550-PC2-30-50-L-3-DFT-PI2BPSK-Outer_Full-128@0-Ant1-PASS-see graph



1-N78-3450-3550-PC2-30-50-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph



1-N78-3450-3550-PC2-30-50-L-6-CP-QPSK-Outer_Full-133@0-Ant1-PASS-see graph

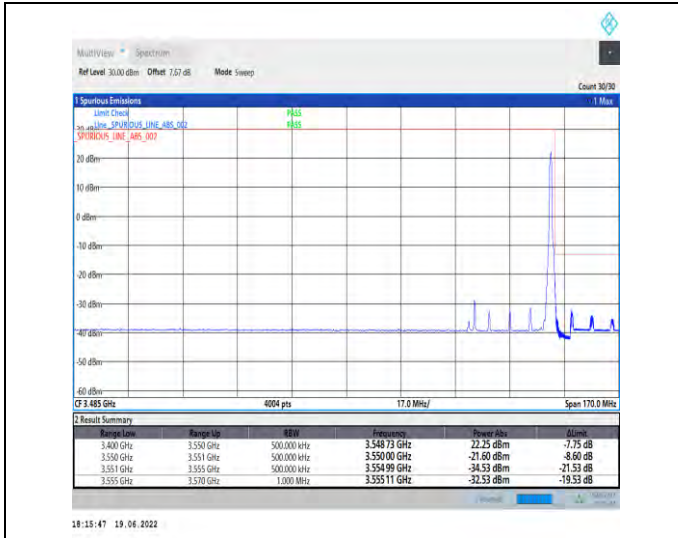


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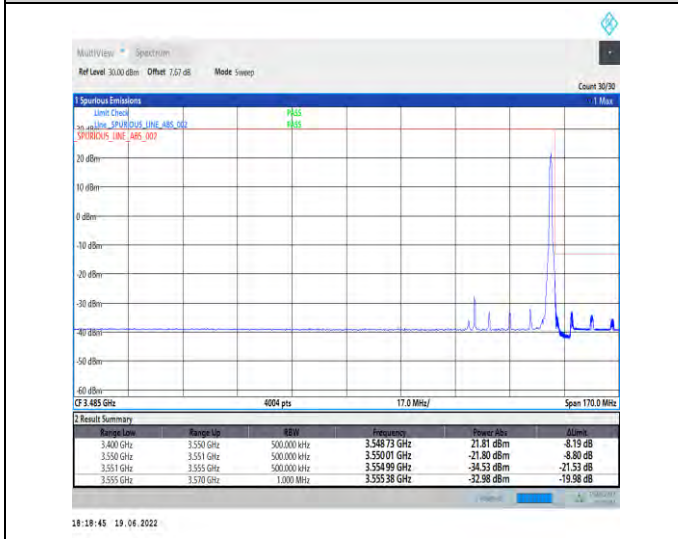
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1-N78-3450-3550-PC2-30-50-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@132-Ant1-PASS-see graph



1-N78-3450-3550-PC2-30-50-H-3-DFT-PI2BPSK-Outer_Full-128@0-Ant1-PASS-see graph



1-N78-3450-3550-PC2-30-50-H-5-CP-QPSK-Edge_1RB_Right-1@132-Ant1-PASS-see graph



1-N78-3450-3550-PC2-30-50-H-6-CP-QPSK-Outer_Full-133@0-Ant1-PASS-see graph

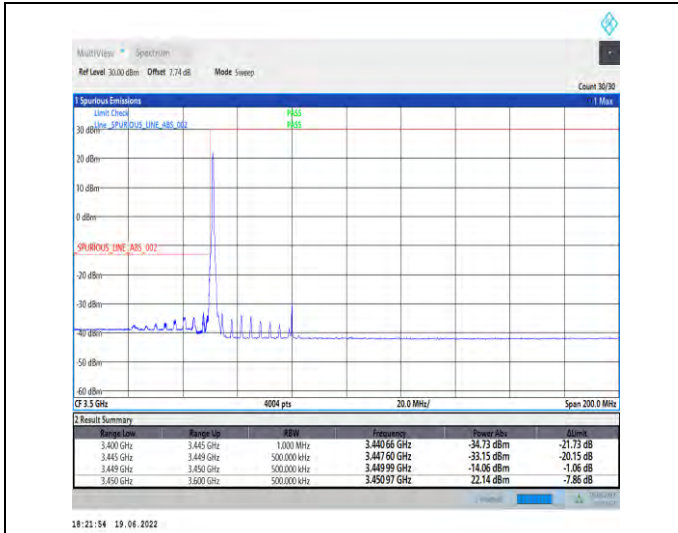


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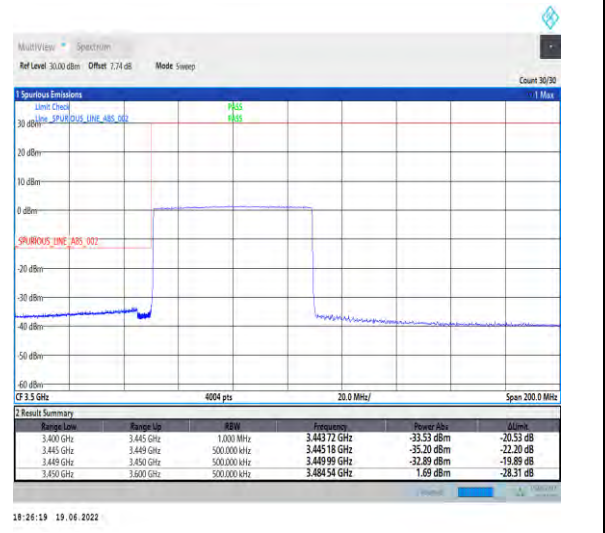
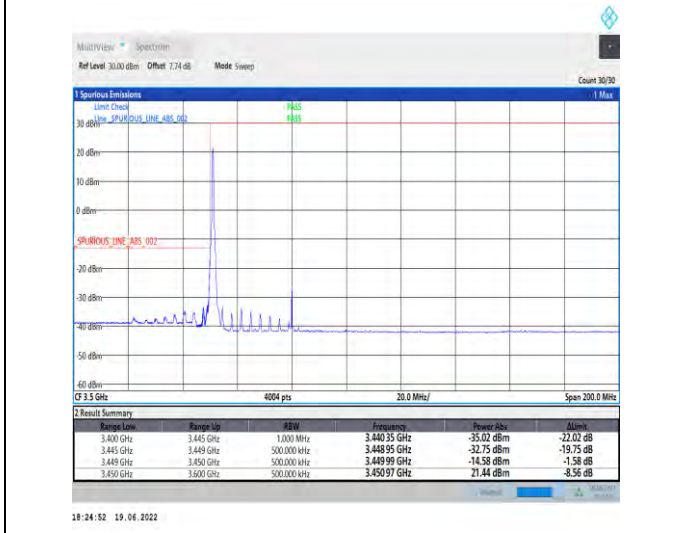
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1-N78-3450-3550-PC2-30-60-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph

1-N78-3450-3550-PC2-30-60-L-3-DFT-PI2BPSK-Outer_Full-162@0-Ant1-PASS-see graph



1-N78-3450-3550-PC2-30-60-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph

1-N78-3450-3550-PC2-30-60-L-6-CP-QPSK-Outer_Full-162@0-Ant1-PASS-see graph

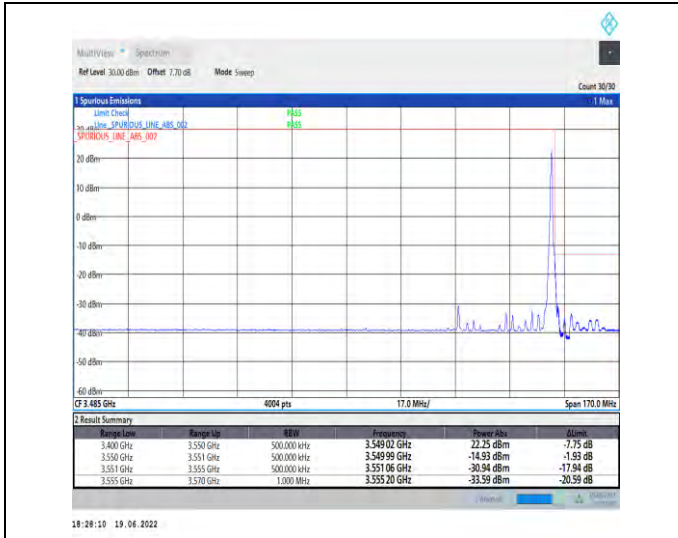


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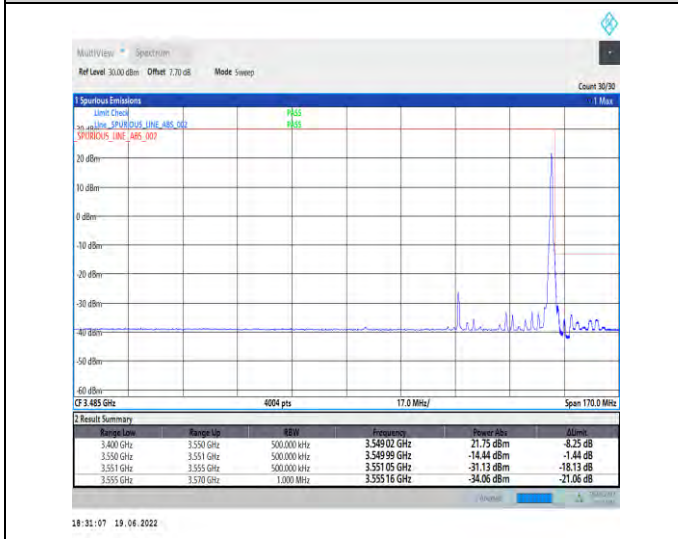
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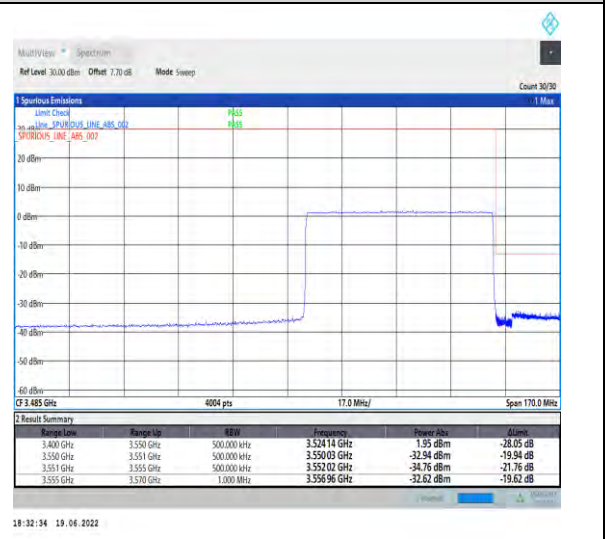
1-N78-3450-3550-PC2-30-60-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@161-Ant1-PASS-see graph



1-N78-3450-3550-PC2-30-60-H-3-DFT-PI2BPSK-Outer_Full-162@0-Ant1-PASS-see graph



1-N78-3450-3550-PC2-30-60-H-5-CP-QPSK-Edge_1RB_Right-1@161-Ant1-PASS-see graph



1-N78-3450-3550-PC2-30-60-H-6-CP-QPSK-Outer_Full-162@0-Ant1-PASS-see graph

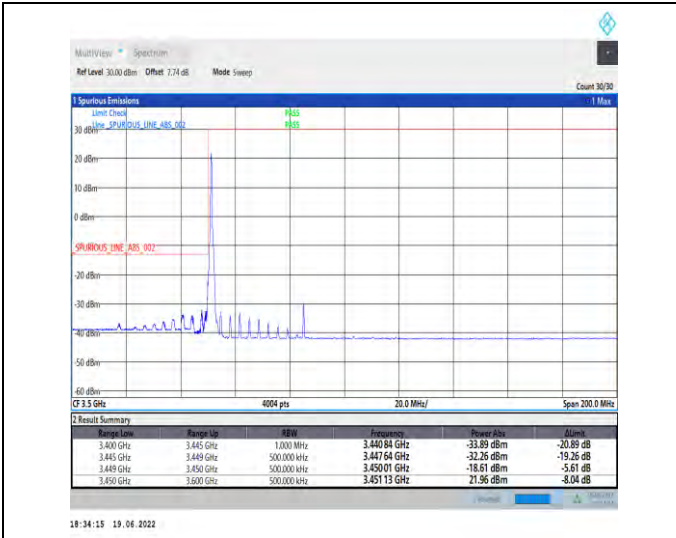


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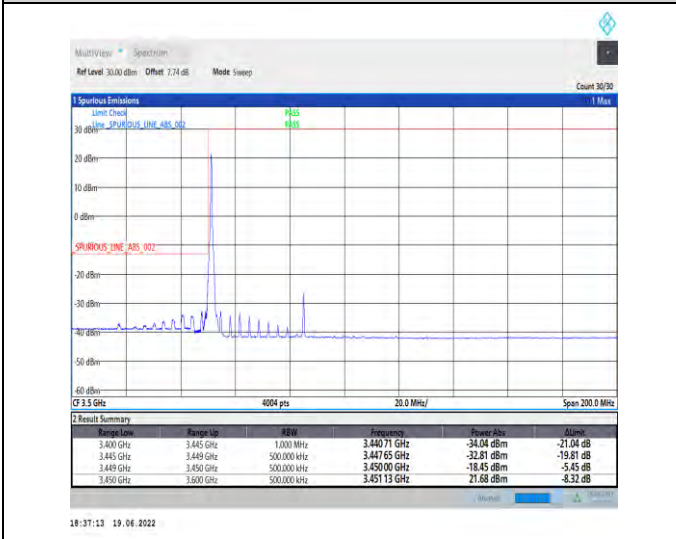
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1-N78-3450-3550-PC2-30-70-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph



1-N78-3450-3550-PC2-30-70-L-3-DFT-PI2BPSK-Outer_Full-180@0-Ant1-PASS-see graph



1-N78-3450-3550-PC2-30-70-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph



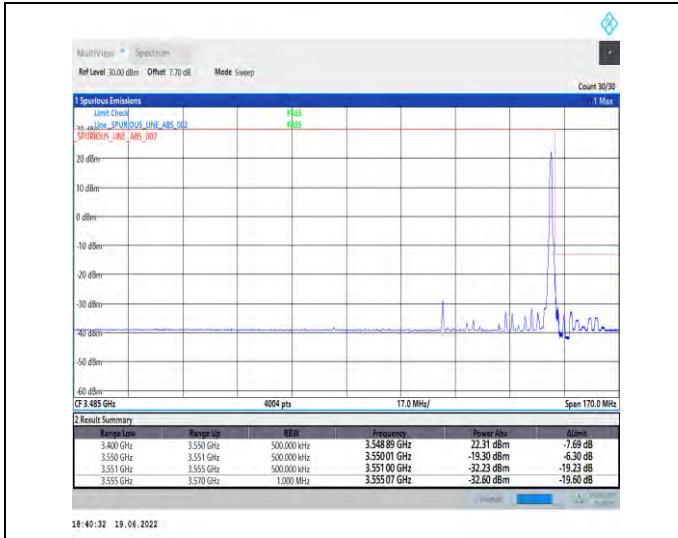
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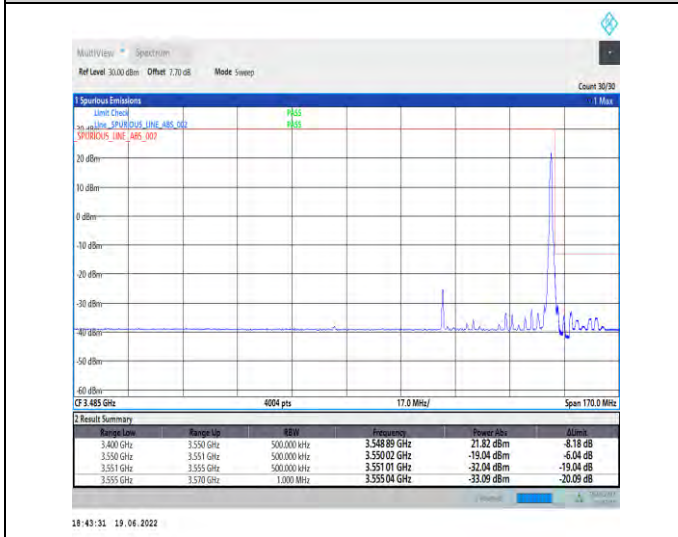
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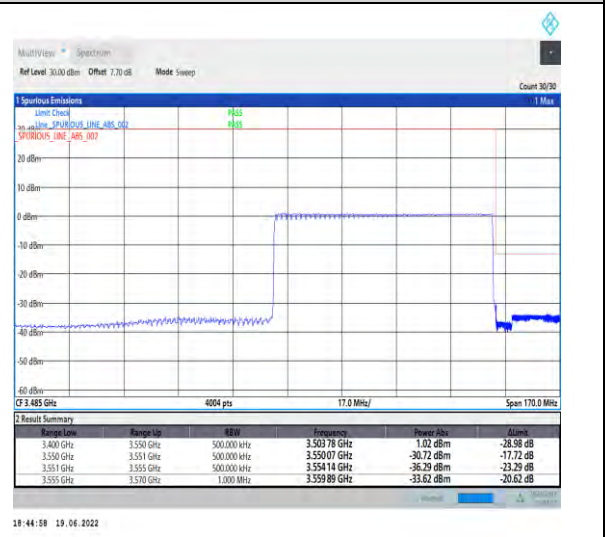
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1-N78-3450-3550-PC2-30-70-H-3-DFT-PI2BPSK-Outer_Full-180@0-Ant1-PASS-see graph



1-N78-3450-3550-PC2-30-70-H-5-CP-QPSK-Edge_1RB_Right-1@188-Ant1-PASS-see graph



1-N78-3450-3550-PC2-30-70-H-6-CP-QPSK-Outer_Full-189@0-Ant1-PASS-see graph

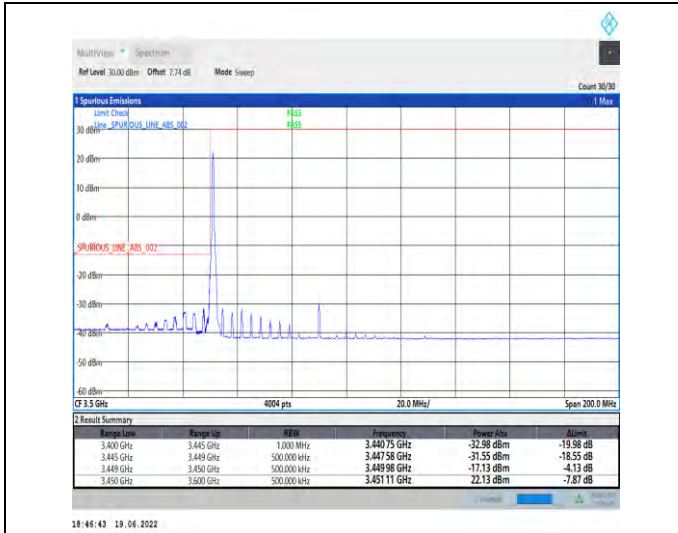


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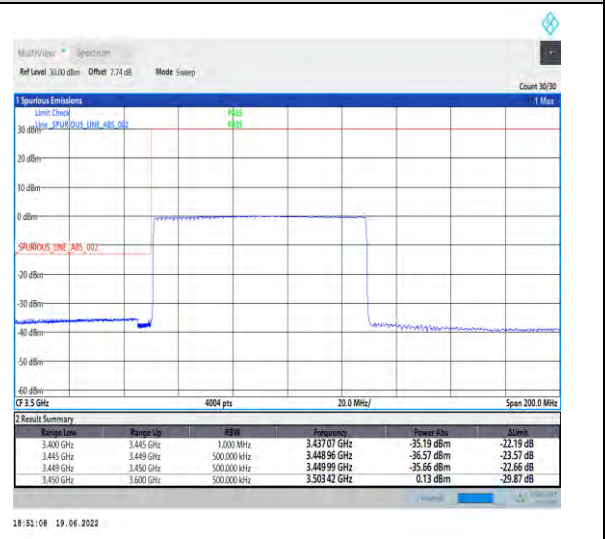
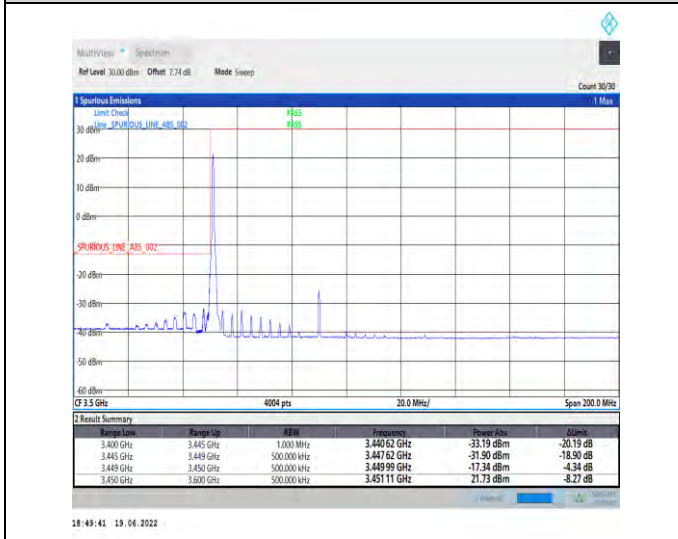
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1-N78-3450-3550-PC2-30-80-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph

1-N78-3450-3550-PC2-30-80-L-3-DFT-PI2BPSK-Outer_Full-216@0-Ant1-PASS-see graph



1-N78-3450-3550-PC2-30-80-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph

1-N78-3450-3550-PC2-30-80-L-6-CP-QPSK-Outer_Full-217@0-Ant1-PASS-see graph

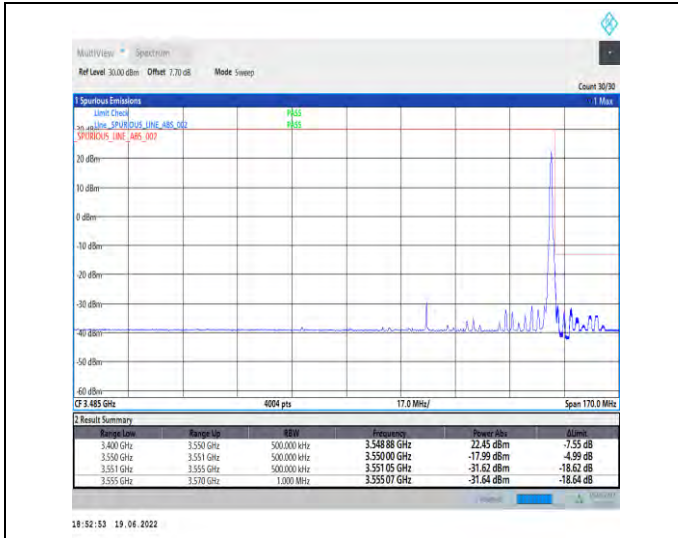


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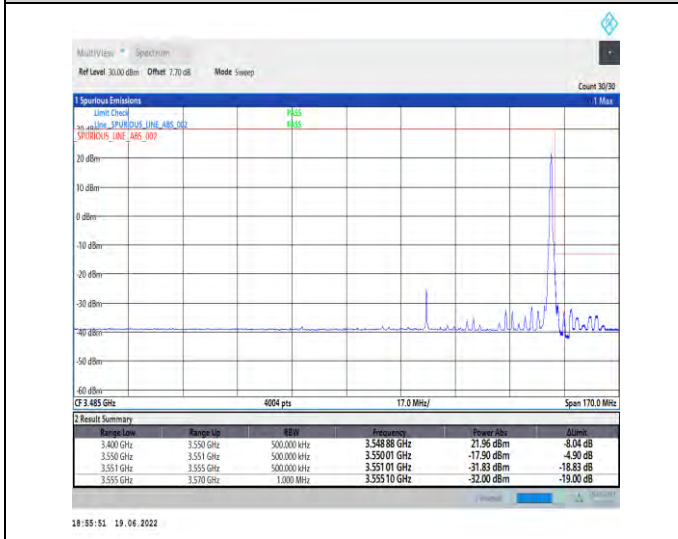
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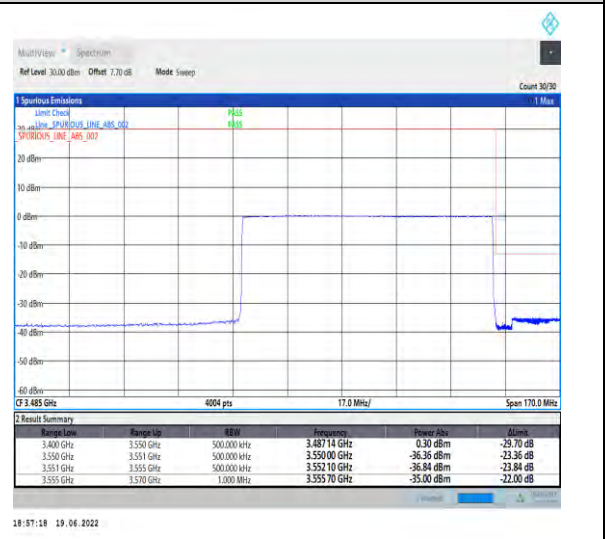
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1-N78-3450-3550-PC2-30-80-H-5-CP-QPSK-Edge_1RB_Right-1@216-Ant1-PASS-see graph



1-N78-3450-3550-PC2-30-80-H-6-CP-QPSK-Outer_Full-217@0-Ant1-PASS-see graph

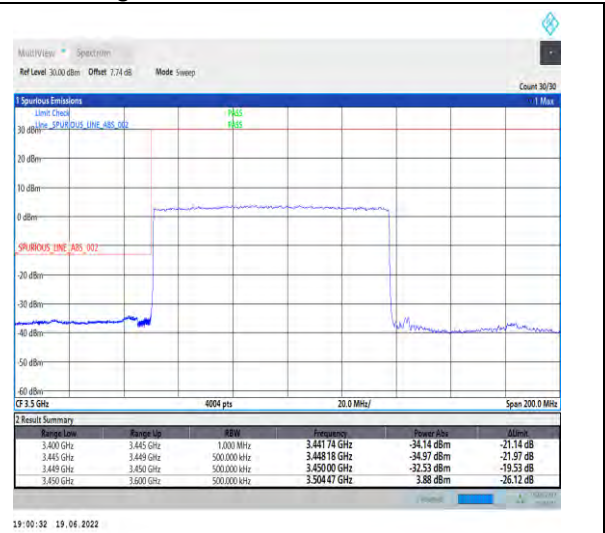
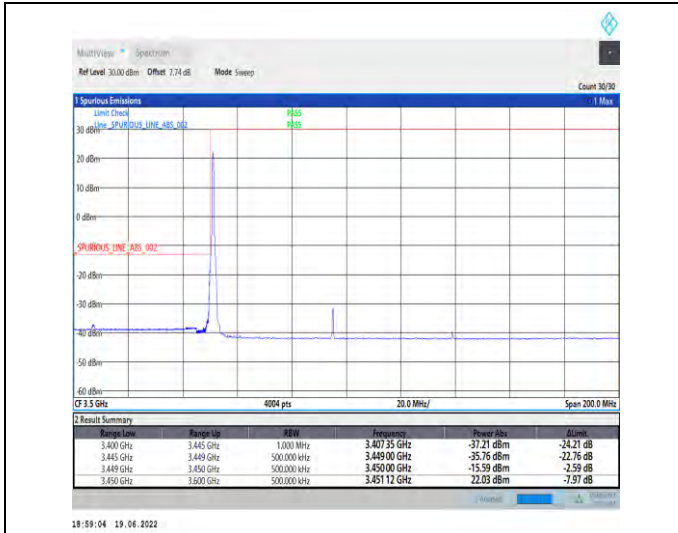


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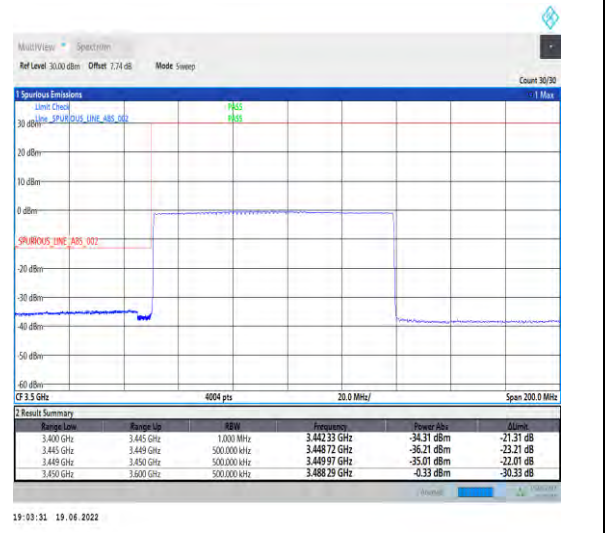
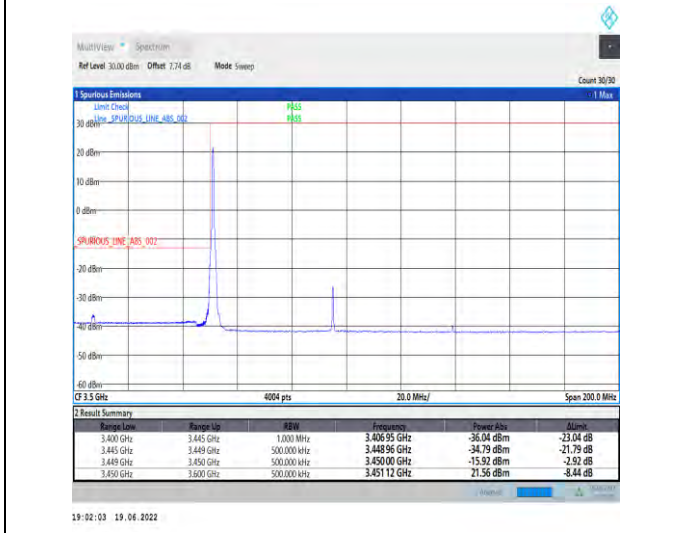
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1-N78-3450-3550-PC2-30-90-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph

1-N78-3450-3550-PC2-30-90-L-3-DFT-PI2BPSK-Outer_Full-240@0-Ant1-PASS-see graph



1-N78-3450-3550-PC2-30-90-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph

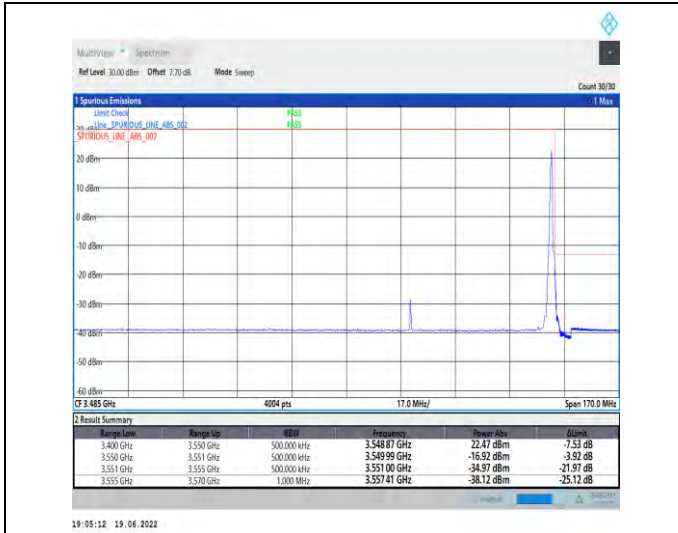
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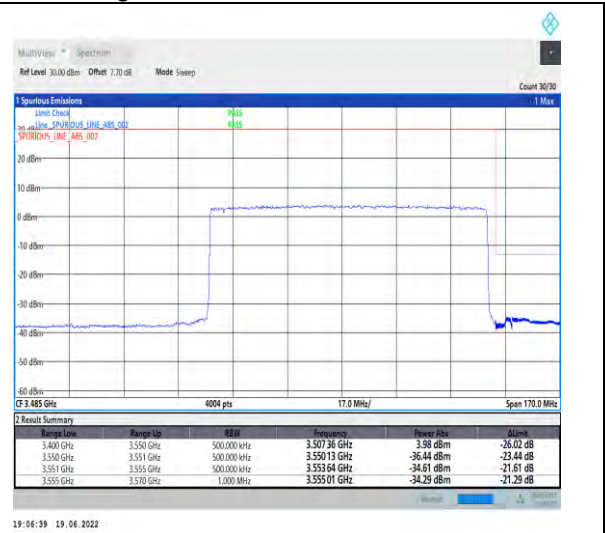
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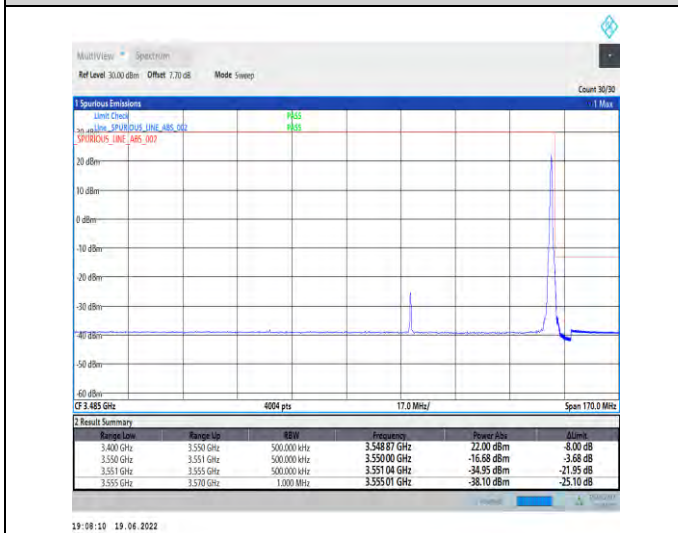
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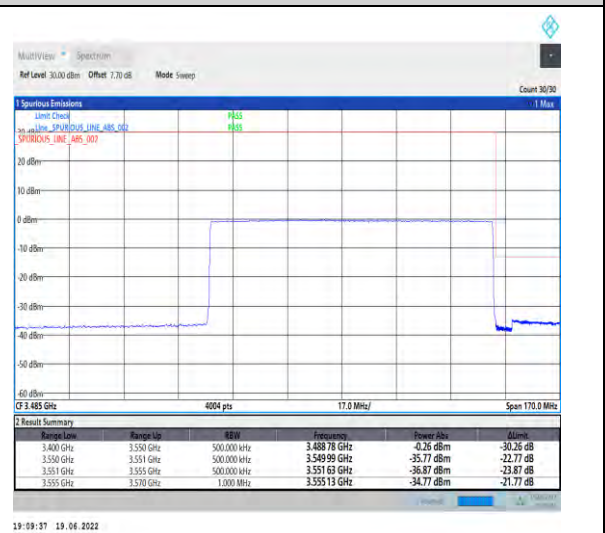
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1-N78-3450-3550-PC2-30-90-H-3-DFT-PI2BPSK-Outer_Full-240@0-Ant1-PASS-see graph



1-N78-3450-3550-PC2-30-90-H-5-CP-QPSK-Edge_1RB_Right-1@244-Ant1-PASS-see graph



1-N78-3450-3550-PC2-30-90-H-6-CP-QPSK-Outer_Full-245@0-Ant1-PASS-see graph

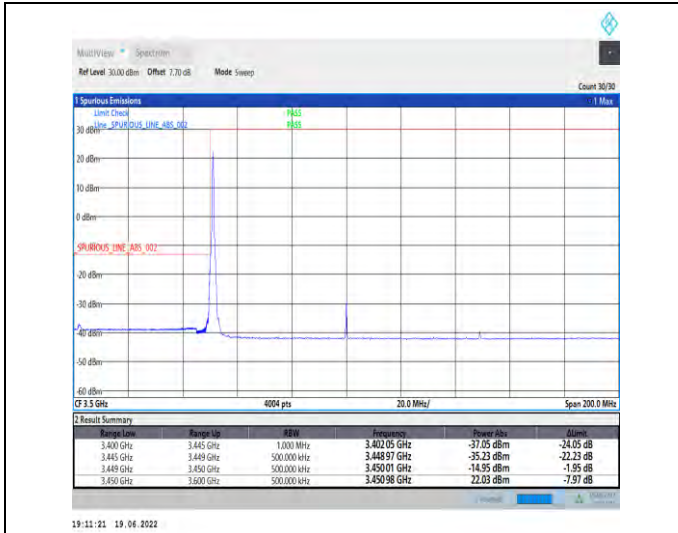


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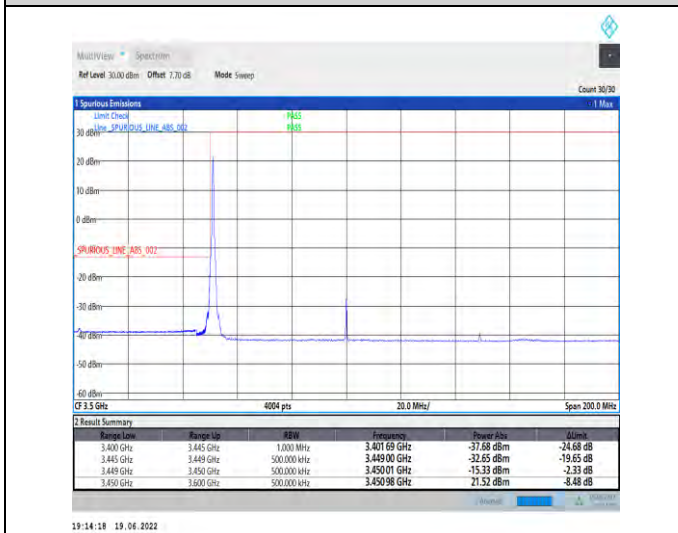
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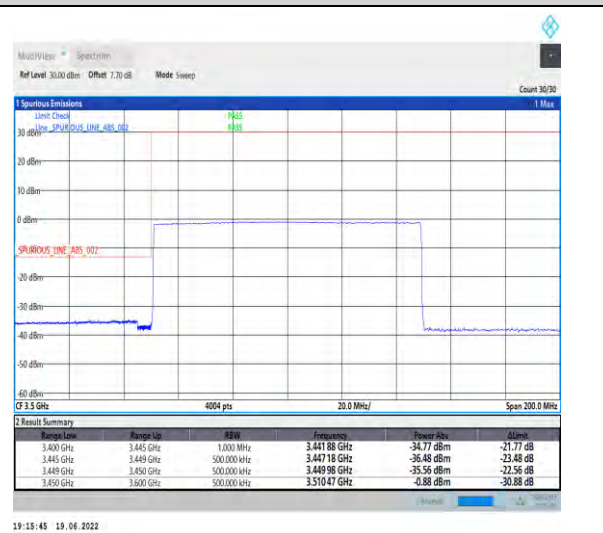
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1-N78-3450-3550-PC2-30-100-L-3-DFT-PI2BPSK-Outer_Full-270@0-Ant1-PASS-see graph



1-N78-3450-3550-PC2-30-100-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph



1-N78-3450-3550-PC2-30-100-L-6-CP-QPSK-Outer_Full-273@0-Ant1-PASS-see graph

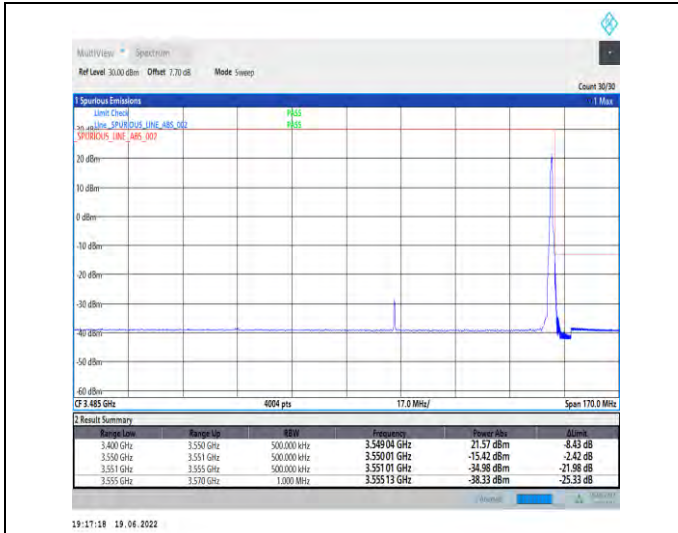


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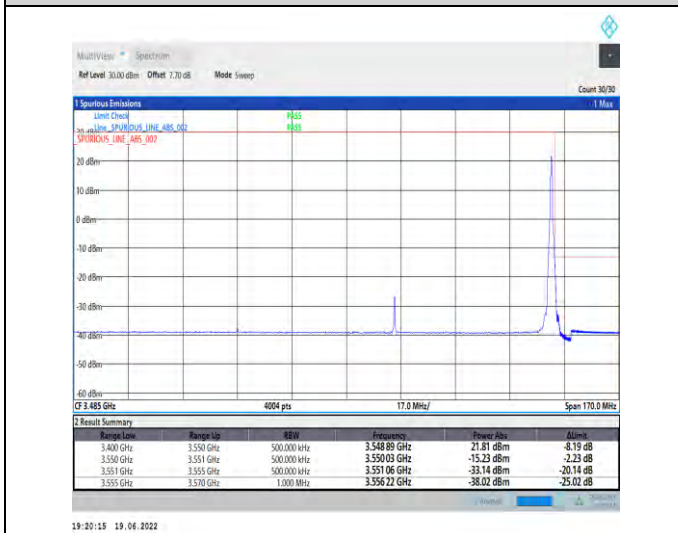
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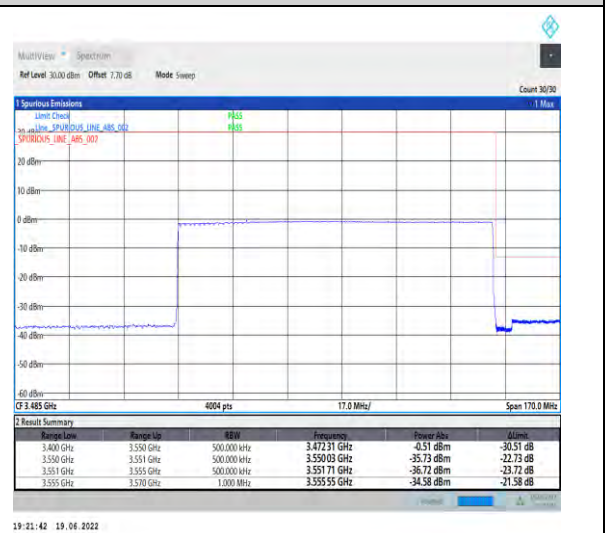
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1-N78-3450-3550-PC2-30-100-H-5-CP-QPSK-Edge_1_RB_Right-1@272-Ant1-PASS-see graph



1-N78-3450-3550-PC2-30-100-H-6-CP-QPSK-Outer_Full-273@0-Ant1-PASS-see graph



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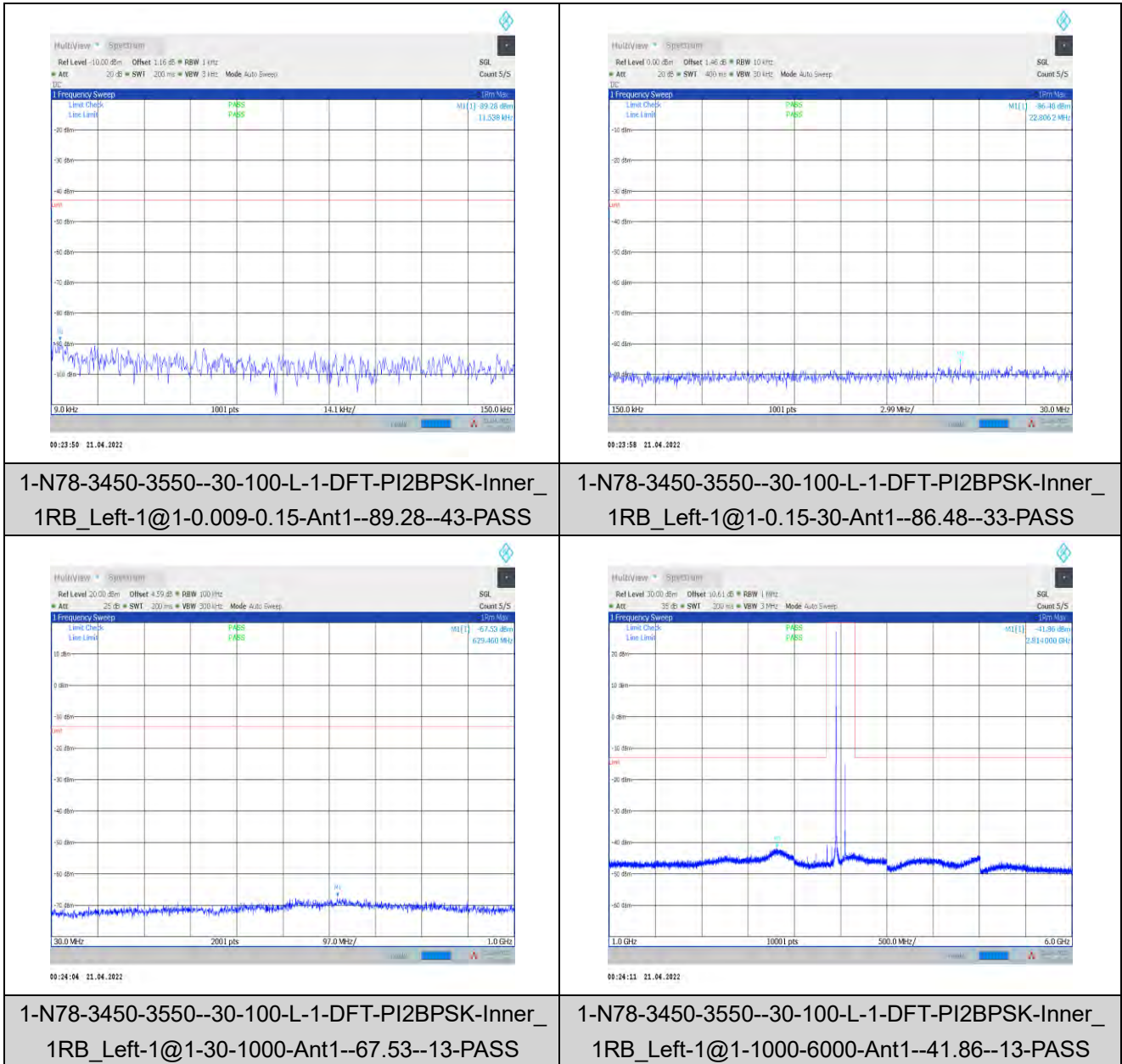
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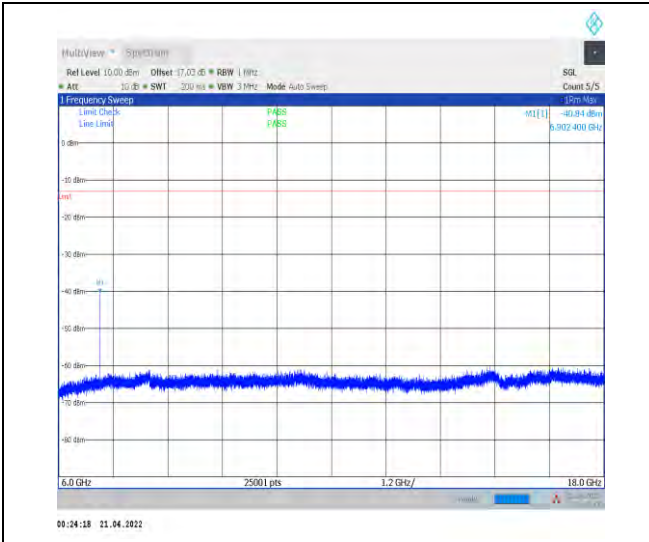
Test Graphs



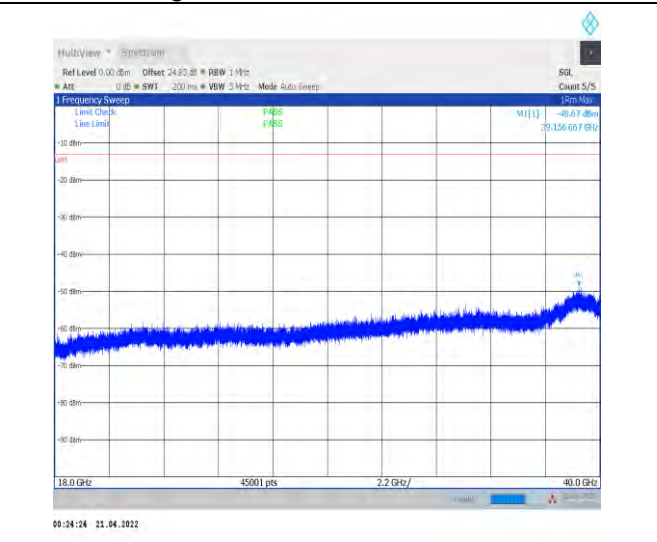
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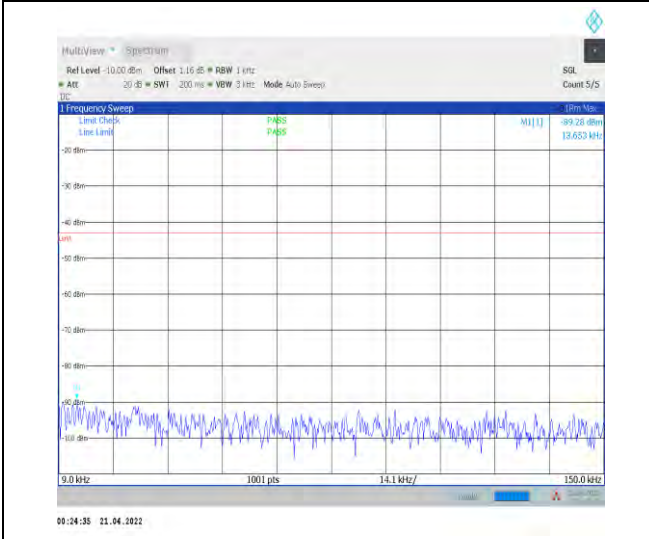
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1-N78-3450-3550--30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-6000-18000-Ant1--40.84--13-PASS



1-N78-3450-3550--30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-18000-40000-Ant1--48.67--13-PASS



1-N78-3450-3550--30-100-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1--89.28--43-PASS

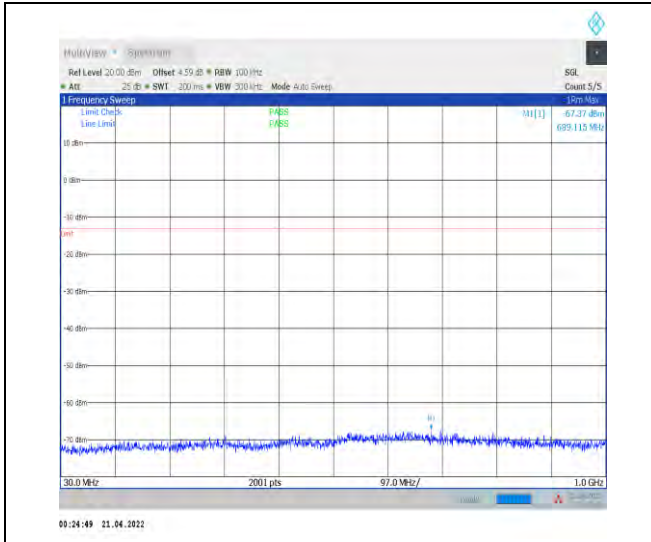


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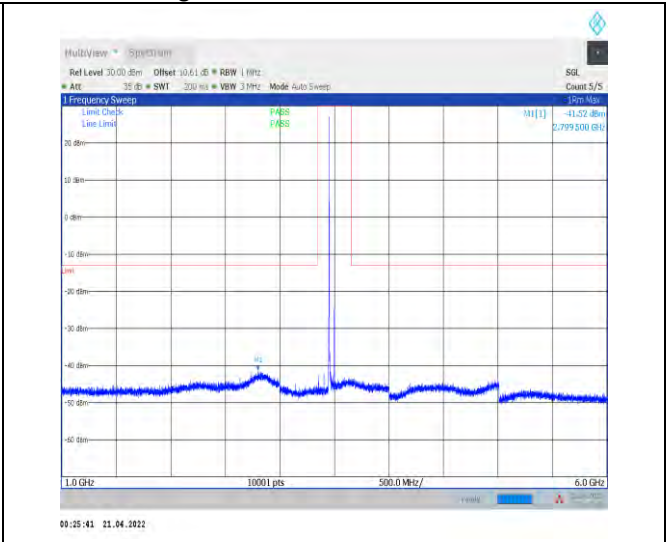


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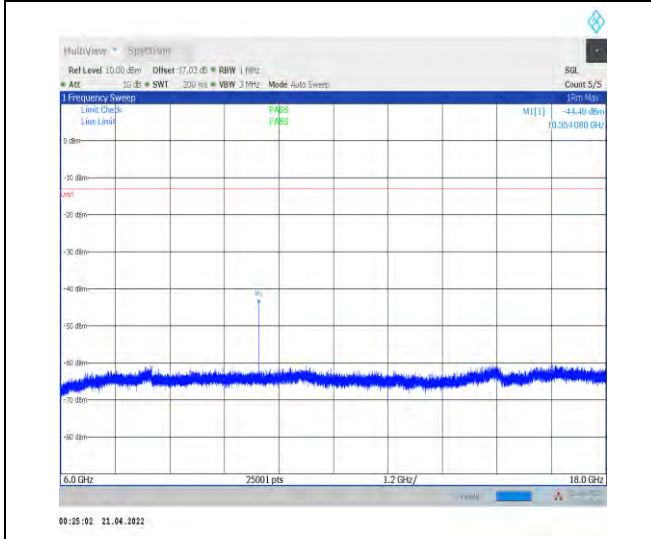
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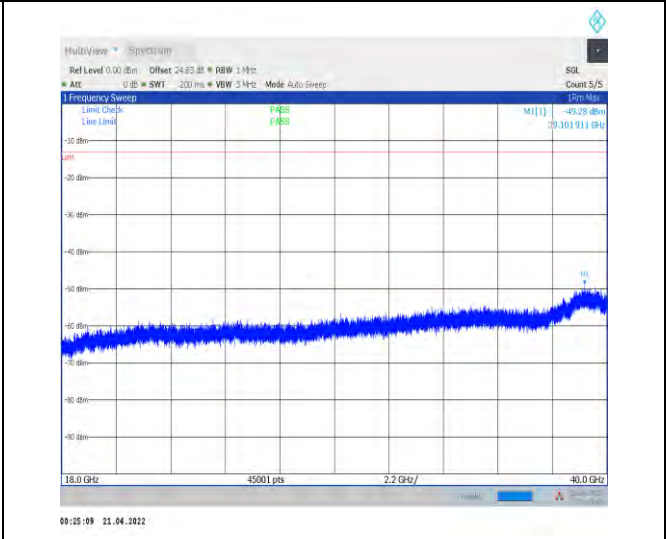
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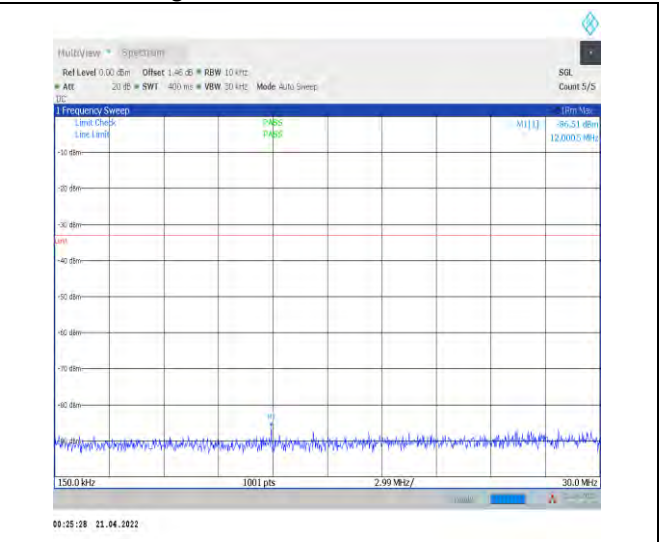
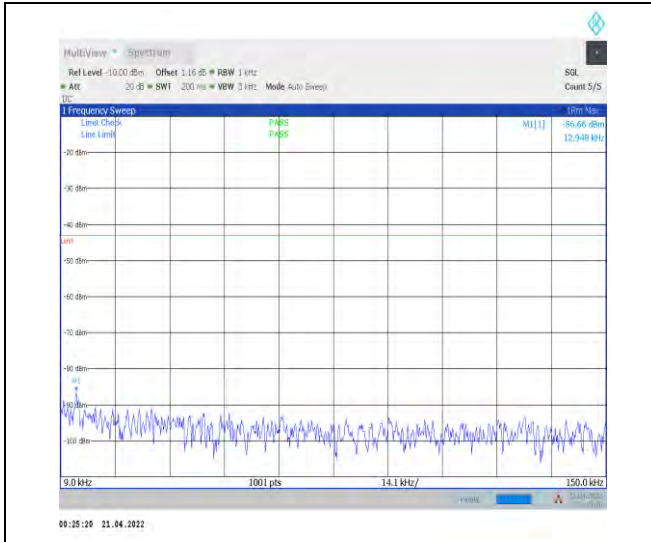
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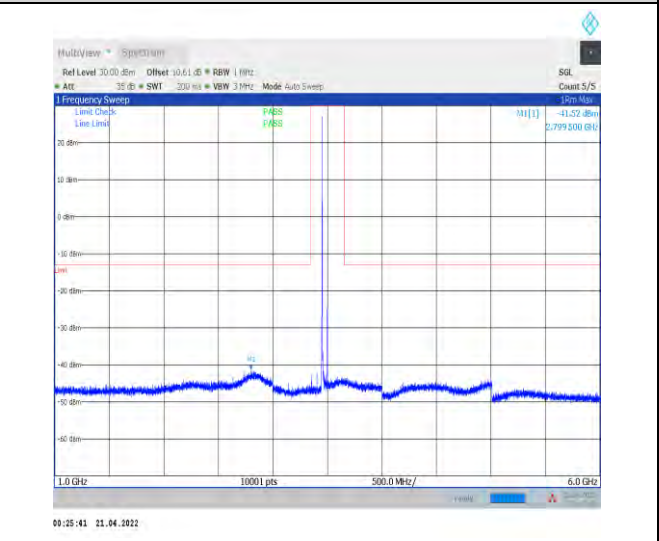
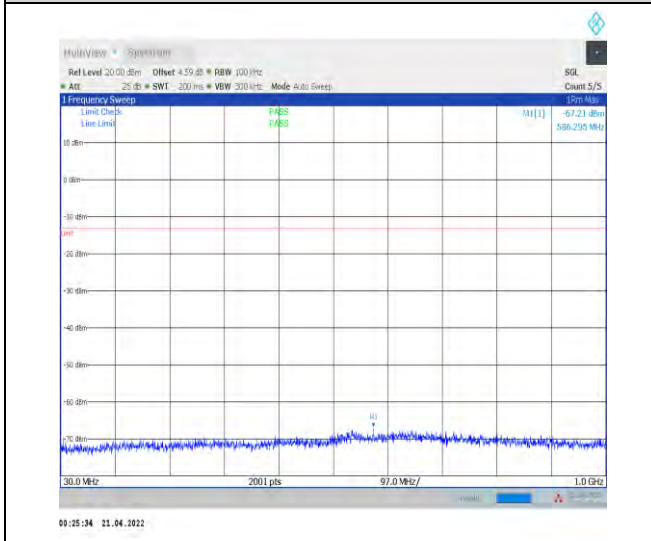


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_1RB_Left-1@1-0.009-0.15-Ant1--86.66--43-PASS

1-N78-3450-3550--30-100-H-1-DFT-PI2BPSK-Inner_
1RB_Left-1@1-0.15-30-Ant1--86.51--33-PASS



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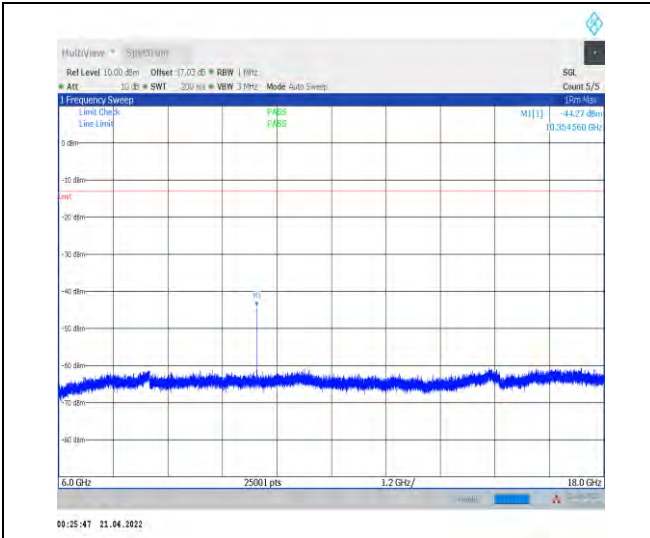
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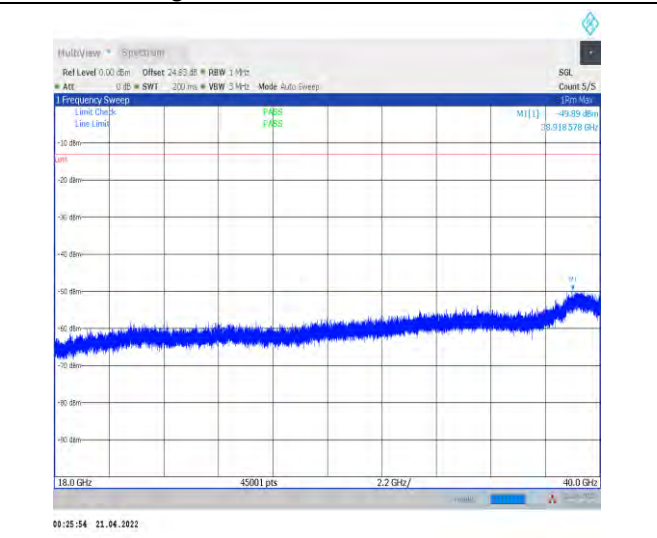
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1-N78-3450-3550--30-100-H-1-DFT-PI2BPSK-Inner_
1RB_Left-1@1-18000-40000-Ant1--49.89--13-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band78 3450-3550_ TM1
 Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6810.1800	49.80	-103.02	-53.22	-13.00	40.22	142	346	Horizontal
2	7786.85	50.89	-101.13	-50.24	-13.00	37.24	236	209	Horizontal
3	10215.2700	43.45	-95.68	-52.23	-13.00	39.23	164	15	Horizontal
4	12825	44.32	-92.29	-47.97	-13.00	34.97	195	59	Horizontal
5	13620.3600	42.53	-91.16	-48.63	-13.00	35.63	175	15	Horizontal
6	17025.4500	41.29	-90.46	-49.17	-13.00	36.17	180	195	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6810.1800	48.05	-103.02	-54.97	-13.00	41.97	169	316	Vertical
2	7802.375	51.52	-101.06	-49.54	-13.00	36.54	194	194	Vertical
3	10215.2700	44.07	-95.68	-51.61	-13.00	38.61	172	133	Vertical
4	13620.3600	41.79	-91.16	-49.37	-13.00	36.37	236	56	Vertical
5	15858.125	43.27	-90.84	-47.57	-13.00	34.57	251	6	Vertical
6	17025.4500	42.05	-90.46	-48.41	-13.00	35.41	233	150	Vertical



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Test Band = SA Band78 3450-3550_ TM1
Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.1800	49.17	-103.09	-53.92	-13.00	40.92	136	117	Horizontal
2	8410.15	49.93	-99.32	-49.39	-13.00	36.39	164	58	Horizontal
3	10365.2700	43.82	-95.21	-51.39	-13.00	38.39	182	298	Horizontal
4	13820.3600	41.13	-91.39	-50.26	-13.00	37.26	166	125	Horizontal
5	15146.275	41.72	-90.38	-48.66	-13.00	35.66	175	163	Horizontal
6	17275.4500	40.82	-91.71	-50.89	-13.00	37.89	190	41	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.1800	49.31	-103.09	-53.78	-13.00	40.78	125	150	Vertical
2	8342.3	50.46	-99.66	-49.20	-13.00	36.20	168	227	Vertical
3	10365.2700	42.96	-95.21	-52.25	-13.00	39.25	194	135	Vertical
4	12528.875	43.96	-93.08	-49.12	-13.00	36.12	172	196	Vertical
5	13820.3600	41.23	-91.39	-50.16	-13.00	37.16	215	118	Vertical
6	17275.4500	40.43	-91.71	-51.28	-13.00	38.28	251	227	Vertical



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Report No.: SEWA2205000015RG02

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Test Band = SA Band78 3450-3550_ TM1

Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7010.1800	48.00	-102.21	-54.21	-13.00	41.21	255	178	Horizontal
2	8808.05	49.22	-98.30	-49.08	-13.00	36.08	164	178	Horizontal
3	10515.2700	42.84	-94.93	-52.09	-13.00	39.09	194	208	Horizontal
4	13167.125	43.86	-91.94	-48.08	-13.00	35.08	172	133	Horizontal
5	14020.3600	39.55	-90.15	-50.60	-13.00	37.60	281	194	Horizontal
6	17525.4500	41.04	-89.79	-48.75	-13.00	35.75	233	208	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7010.1800	48.74	-102.21	-53.47	-13.00	40.47	189	347	Vertical
2	8351.5	50.37	-99.60	-49.23	-13.00	36.23	175	224	Vertical
3	10515.2700	42.88	-94.93	-52.05	-13.00	39.05	266	269	Vertical
4	12710.575	44.09	-92.59	-48.50	-13.00	35.50	155	125	Vertical
5	14020.3600	39.75	-90.15	-50.40	-13.00	37.40	236	236	Vertical
6	17525.4500	41.69	-89.79	-48.10	-13.00	35.10	201	347	Vertical



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Report No.: SEWA2205000015RG02
 Rev.: 01
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Test Band = NSA 2A-n78A 3450-3550_ TM1
 Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2365.75	41.56	-91.41	-49.85	-13.00	36.85	208	196	Horizontal
2	6810.1800	47.90	-103.33	-55.43	-13.00	42.43	265	181	Horizontal
3	10215.2700	41.65	-95.51	-53.86	-13.00	40.86	214	8	Horizontal
4	11796.25	49.67	-93.82	-44.15	-13.00	31.15	174	0	Horizontal
5	13620.3600	39.74	-90.88	-51.14	-13.00	38.14	158	230	Horizontal
6	17025.4500	39.64	-90.49	-50.85	-13.00	37.85	144	114	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1625.5	47.46	-94.77	-47.31	-13.00	34.31	270	24	Vertical
2	2125.75	43.68	-92.35	-48.67	-13.00	35.67	283	103	Vertical
3	6810.1800	48.11	-103.33	-55.22	-13.00	42.22	247	66	Vertical
4	10215.2700	42.66	-95.51	-52.85	-13.00	39.85	174	35	Vertical
5	13620.3600	39.32	-90.88	-51.56	-13.00	38.56	156	17	Vertical
6	17025.4500	39.69	-90.49	-50.80	-13.00	37.80	175	356	Vertical



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Test Band = NSA 2A-n78A 3450-3550_TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5898.1667	53.29	-105.79	-52.50	-13.00	39.50	285	0	Horizontal
2	6910.1800	47.46	-103.09	-55.63	-13.00	42.63	264	165	Horizontal
3	10365.2700	43.35	-95.50	-52.15	-13.00	39.15	244	0	Horizontal
4	11796.25	48.74	-93.82	-45.08	-13.00	32.08	175	329	Horizontal
5	13820.3600	40.01	-91.27	-51.26	-13.00	38.26	154	0	Horizontal
6	17275.4500	39.93	-91.84	-51.91	-13.00	38.91	155	165	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1073.125	42.21	-94.64	-52.43	-13.00	39.43	258	105	Vertical
2	6910.1800	48.03	-103.09	-55.06	-13.00	42.06	235	78	Vertical
3	9830.4167	52.37	-96.29	-43.92	-13.00	30.92	241	30	Vertical
4	10365.2700	43.33	-95.50	-52.17	-13.00	39.17	177	30	Vertical
5	13820.3600	38.61	-91.27	-52.66	-13.00	39.66	155	180	Vertical
6	17275.4500	40.95	-91.84	-50.89	-13.00	37.89	107	16	Vertical



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Test Band = NSA 2A-n78A 3450-3550_TM1
 Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7010.1800	48.61	-102.45	-53.84	-13.00	40.84	287	356	Horizontal
2	9830.4167	50.36	-96.29	-45.93	-13.00	32.93	244	31	Horizontal
3	10515.2700	40.99	-94.88	-53.89	-13.00	40.89	285	1	Horizontal
4	11796.8333	49.44	-93.83	-44.39	-13.00	31.39	174	162	Horizontal
5	14020.3600	39.16	-91.04	-51.88	-13.00	38.88	185	114	Horizontal
6	17525.4500	40.66	-90.50	-49.84	-13.00	36.84	198	245	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1625.875	45.94	-94.77	-48.83	-13.00	35.83	298	114	Vertical
2	7010.1800	47.59	-102.45	-54.86	-13.00	41.86	255	328	Vertical
3	9830.4167	52.99	-96.29	-43.30	-13.00	30.30	274	64	Vertical
4	10515.2700	41.59	-94.88	-53.29	-13.00	40.29	157	31	Vertical
5	14020.3600	38.05	-91.04	-52.99	-13.00	39.99	169	97	Vertical
6	17525.4500	41.83	-90.50	-48.67	-13.00	35.67	108	80	Vertical



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Test Band = NSA 5A-n78A 3450-3550_TM1
Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6810.1800	49.10	-103.02	-53.92	-13.00	40.92	122	299	Horizontal
2	8019.725	48.91	-100.22	-51.31	-13.00	38.31	265	239	Horizontal
3	10215.2700	40.71	-95.68	-54.97	-13.00	41.97	194	284	Horizontal
4	12344.3	41.91	-92.97	-51.06	-13.00	38.06	175	3	Horizontal
5	13620.3600	39.49	-91.16	-51.67	-13.00	38.67	302	194	Horizontal
6	17025.4500	39.64	-90.46	-50.82	-13.00	37.82	127	28	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6810.1800	49.77	-103.02	-53.25	-13.00	40.25	126	151	Vertical
2	8621.75	48.08	-98.46	-50.38	-13.00	37.38	188	60	Vertical
3	10215.2700	41.47	-95.68	-54.21	-13.00	41.21	194	360	Vertical
4	12276.45	41.28	-92.90	-51.62	-13.00	38.62	186	151	Vertical
5	13620.3600	39.37	-91.16	-51.79	-13.00	38.79	253	226	Vertical
6	17025.4500	38.23	-90.46	-52.23	-13.00	39.23	161	212	Vertical



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Test Band = NSA 5A-n78A 3450-3550_TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.1800	47.87	-103.09	-55.22	-13.00	42.22	188	125	Horizontal
2	8571.15	48.06	-98.72	-50.66	-13.00	37.66	194	23	Horizontal
3	10365.2700	41.62	-95.21	-53.59	-13.00	40.59	175	150	Horizontal
4	13820.3600	37.31	-91.39	-54.08	-13.00	41.08	236	360	Horizontal
5	14479.85	41.15	-89.64	-48.49	-13.00	35.49	260	29	Horizontal
6	17275.4500	39.65	-91.71	-52.06	-13.00	39.06	231	43	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.1800	48.50	-103.09	-54.59	-13.00	41.59	255	359	Vertical
2	8402.675	48.67	-99.31	-50.64	-13.00	37.64	164	90	Vertical
3	10365.2700	42.90	-95.21	-52.31	-13.00	39.31	184	30	Vertical
4	13820.3600	37.50	-91.39	-53.89	-13.00	40.89	196	30	Vertical
5	15154.9	40.92	-90.33	-49.41	-13.00	36.41	172	316	Vertical
6	17275.4500	40.18	-91.71	-51.53	-13.00	38.53	230	256	Vertical



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Test Band = NSA 5A-n78A 3450-3550_TM1

Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7010.1800	47.02	-102.21	-55.19	-13.00	42.19	125	4	Horizontal
2	8406.125	49.46	-99.31	-49.85	-13.00	36.85	144	359	Horizontal
3	10515.2700	41.31	-94.93	-53.62	-13.00	40.62	184	212	Horizontal
4	14020.3600	36.58	-90.15	-53.57	-13.00	40.57	175	212	Horizontal
5	16423.35	41.81	-92.22	-50.41	-13.00	37.41	192	180	Horizontal
6	17525.4500	40.31	-89.79	-49.48	-13.00	36.48	230	149	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7010.1800	47.48	-102.21	-54.73	-13.00	41.73	236	359	Vertical
2	8578.05	48.26	-98.65	-50.39	-13.00	37.39	261	73	Vertical
3	10515.2700	41.34	-94.93	-53.59	-13.00	40.59	194	4	Vertical
4	14020.3600	37.93	-90.15	-52.22	-13.00	39.22	174	360	Vertical
5	16494.65	42.11	-91.66	-49.55	-13.00	36.55	186	352	Vertical
6	17525.4500	38.95	-89.79	-50.84	-13.00	37.84	192	360	Vertical



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Test Band = NSA 7A-n78A 3450-3550_TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6810.1800	48.10	-103.02	-54.92	-13.00	41.92	258	256	Horizontal
2	8412.45	48.96	-99.33	-50.37	-13.00	37.37	147	179	Horizontal
3	10215.2700	43.12	-95.68	-52.56	-13.00	39.56	169	4	Horizontal
4	13620.3600	40.35	-91.16	-50.81	-13.00	37.81	182	330	Horizontal
5	15322.225	41.47	-90.41	-48.94	-13.00	35.94	143	4	Horizontal
6	17025.4500	40.65	-90.46	-49.81	-13.00	36.81	236	59	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6810.1800	48.71	-103.02	-54.31	-13.00	41.31	126	287	Vertical
2	7372.85	53.89	-101.69	-47.80	-13.00	34.80	165	4	Vertical
3	10215.2700	41.61	-95.68	-54.07	-13.00	41.07	142	4	Vertical
4	13620.3600	40.62	-91.16	-50.54	-13.00	37.54	188	360	Vertical
5	15833.975	42.25	-90.54	-48.29	-13.00	35.29	195	304	Vertical
6	17025.4500	40.35	-90.46	-50.11	-13.00	37.11	122	346	Vertical



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Test Band = NSA 7A-n78A 3450-3550_TM1
 Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.1800	47.94	-103.09	-55.15	-13.00	42.15	284	147	Horizontal
2	8228.45	50.10	-100.21	-50.11	-13.00	37.11	195	164	Horizontal
3	10365.2700	42.42	-95.21	-52.79	-13.00	39.79	176	330	Horizontal
4	13820.3600	40.17	-91.39	-51.22	-13.00	38.22	235	359	Horizontal
5	15395.825	42.14	-90.60	-48.46	-13.00	35.46	161	87	Horizontal
6	17275.4500	39.83	-91.71	-51.88	-13.00	38.88	140	194	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.1800	47.99	-103.09	-55.10	-13.00	42.10	266	4	Vertical
2	7821.35	51.17	-101.07	-49.90	-13.00	36.90	251	226	Vertical
3	10365.2700	43.53	-95.21	-51.68	-13.00	38.68	189	31	Vertical
4	13820.3600	40.12	-91.39	-51.27	-13.00	38.27	174	316	Vertical
5	16553.3	43.09	-91.63	-48.54	-13.00	35.54	213	4	Vertical
6	17275.4500	40.43	-91.71	-51.28	-13.00	38.28	250	354	Vertical



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Test Band = NSA 7A-n78A 3450-3550_TM1

Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7010.1800	47.34	-102.21	-54.87	-13.00	41.87	231	31	Horizontal
2	7372.85	52.01	-101.69	-49.68	-13.00	36.68	261	76	Horizontal
3	10515.2700	43.29	-94.93	-51.64	-13.00	38.64	194	352	Horizontal
4	14020.3600	38.32	-90.15	-51.83	-13.00	38.83	185	226	Horizontal
5	16469.925	44.34	-91.85	-47.51	-13.00	34.51	172	358	Horizontal
6	17525.4500	40.39	-89.79	-49.40	-13.00	36.40	201	91	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7010.1800	47.33	-102.21	-54.88	-13.00	41.88	266	283	Vertical
2	8404.4	49.30	-99.31	-50.01	-13.00	37.01	145	195	Vertical
3	10515.2700	42.66	-94.93	-52.27	-13.00	39.27	191	269	Vertical
4	14020.3600	38.78	-90.15	-51.37	-13.00	38.37	251	240	Vertical
5	15832.25	41.89	-90.52	-48.63	-13.00	35.63	147	224	Vertical
6	17525.4500	40.76	-89.79	-49.03	-13.00	36.03	183	269	Vertical



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Test Band = NSA 12A-n78A 3450-3550_ TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6810.1800	49.26	-103.02	-53.76	-13.00	40.76	253	196	Horizontal
2	8351.5	50.03	-99.60	-49.57	-13.00	36.57	231	360	Horizontal
3	10215.2700	42.43	-95.68	-53.25	-13.00	40.25	260	334	Horizontal
4	13620.3600	41.09	-91.16	-50.07	-13.00	37.07	145	73	Horizontal
5	14882.925	44.02	-90.89	-46.87	-13.00	33.87	182	29	Horizontal
6	17025.4500	40.30	-90.46	-50.16	-13.00	37.16	191	73	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6810.1800	48.33	-103.02	-54.69	-13.00	41.69	155	302	Vertical
2	8384.85	50.10	-99.39	-49.29	-13.00	36.29	142	359	Vertical
3	10215.2700	43.75	-95.68	-51.93	-13.00	38.93	239	257	Vertical
4	11346.1	45.40	-93.51	-48.11	-13.00	35.11	291	257	Vertical
5	13620.3600	41.43	-91.16	-49.73	-13.00	36.73	172	180	Vertical
6	17025.4500	40.81	-90.46	-49.65	-13.00	36.65	140	359	Vertical



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Test Band = NSA 12A-n78A 3450-3550_TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.1800	48.52	-103.09	-54.57	-13.00	41.57	196	120	Horizontal
2	8085.85	49.11	-99.67	-50.56	-13.00	37.56	154	125	Horizontal
3	10365.2700	44.88	-95.21	-50.33	-13.00	37.33	172	23	Horizontal
4	12528.3	44.26	-93.08	-48.82	-13.00	35.82	235	239	Horizontal
5	13820.3600	39.96	-91.39	-51.43	-13.00	38.43	161	286	Horizontal
6	17275.4500	41.41	-91.71	-50.30	-13.00	37.30	159	300	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.1800	50.17	-103.09	-52.92	-13.00	39.92	184	151	Vertical
2	8387.15	49.88	-99.38	-49.50	-13.00	36.50	169	125	Vertical
3	10365.2700	44.93	-95.21	-50.28	-13.00	37.28	185	258	Vertical
4	13820.3600	41.26	-91.39	-50.13	-13.00	37.13	142	287	Vertical
5	15784.525	43.21	-90.13	-46.92	-13.00	33.92	236	59	Vertical
6	17275.4500	41.32	-91.71	-50.39	-13.00	37.39	261	358	Vertical



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Test Band = NSA 12A-n78A 3450-3550_TM1
 Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7010.1800	48.68	-102.21	-53.53	-13.00	40.53	251	29	Horizontal
2	8401.525	49.99	-99.30	-49.31	-13.00	36.31	266	317	Horizontal
3	10515.2700	42.76	-94.93	-52.17	-13.00	39.17	291	359	Horizontal
4	14020.3600	39.82	-90.15	-50.33	-13.00	37.33	148	286	Horizontal
5	16606.775	44.76	-91.66	-46.90	-13.00	33.90	172	353	Horizontal
6	17525.4500	41.06	-89.79	-48.73	-13.00	35.73	200	353	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7010.1800	48.01	-102.21	-54.20	-13.00	41.20	122	360	Vertical
2	8371.05	50.02	-99.48	-49.46	-13.00	36.46	164	134	Vertical
3	10515.2700	42.24	-94.93	-52.69	-13.00	39.69	185	209	Vertical
4	12674.925	44.43	-92.77	-48.34	-13.00	35.34	142	14	Vertical
5	14020.3600	39.71	-90.15	-50.44	-13.00	37.44	293	360	Vertical
6	17525.4500	40.29	-89.79	-49.50	-13.00	36.50	233	360	Vertical



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Test Band = NSA 66A-n78A 3450-3550_ TM1
Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6810.1800	50.31	-103.02	-52.71	-13.00	39.71	215	345	Horizontal
2	8362.425	49.76	-99.53	-49.77	-13.00	36.77	148	75	Horizontal
3	10215.2700	43.35	-95.68	-52.33	-13.00	39.33	195	274	Horizontal
4	13620.3600	40.93	-91.16	-50.23	-13.00	37.23	156	4	Horizontal
5	14435	44.07	-89.99	-45.92	-13.00	32.92	261	196	Horizontal
6	17025.4500	40.73	-90.46	-49.73	-13.00	36.73	174	360	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6810.1800	49.74	-103.02	-53.28	-13.00	40.28	125	288	Vertical
2	7372.85	54.03	-101.69	-47.66	-13.00	34.66	266	4	Vertical
3	10215.2700	43.44	-95.68	-52.24	-13.00	39.24	291	360	Vertical
4	12856.625	44.07	-92.33	-48.26	-13.00	35.26	148	135	Vertical
5	13620.3600	41.52	-91.16	-49.64	-13.00	36.64	185	197	Vertical
6	17025.4500	41.77	-90.46	-48.69	-13.00	35.69	172	359	Vertical



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Test Band = NSA 66A-n78A 3450-3550_TM1
Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.1800	48.70	-103.09	-54.39	-13.00	41.39	185	45	Horizontal
2	8353.225	49.83	-99.59	-49.76	-13.00	36.76	165	226	Horizontal
3	10365.2700	42.82	-95.21	-52.39	-13.00	39.39	194	272	Horizontal
4	13820.3600	40.54	-91.39	-50.85	-13.00	37.85	172	125	Horizontal
5	15739.675	42.92	-90.17	-47.25	-13.00	34.25	251	23	Horizontal
6	17275.4500	40.60	-91.71	-51.11	-13.00	38.11	200	60	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.1800	48.77	-103.09	-54.32	-13.00	41.32	255	166	Vertical
2	8358.975	50.03	-99.56	-49.53	-13.00	36.53	145	106	Vertical
3	10365.2700	44.04	-95.21	-51.17	-13.00	38.17	161	93	Vertical
4	13820.3600	40.85	-91.39	-50.54	-13.00	37.54	175	16	Vertical
5	15859.85	42.99	-90.86	-47.87	-13.00	34.87	185	166	Vertical
6	17275.4500	41.18	-91.71	-50.53	-13.00	37.53	192	359	Vertical



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Test Band = NSA 66A-n78A 3450-3550_TM1
Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7010.1800	49.20	-102.21	-53.01	-13.00	40.01	211	4	Horizontal
2	8392.9	49.78	-99.34	-49.56	-13.00	36.56	145	258	Horizontal
3	10515.2700	42.78	-94.93	-52.15	-13.00	39.15	236	317	Horizontal
4	14020.3600	39.92	-90.15	-50.23	-13.00	37.23	269	47	Horizontal
5	16379.65	45.23	-92.32	-47.09	-13.00	34.09	251	360	Horizontal
6	17525.4500	40.32	-89.79	-49.47	-13.00	36.47	180	75	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7010.1800	49.88	-102.21	-52.33	-13.00	39.33	174	354	Vertical
2	8031.8	49.72	-100.12	-50.40	-13.00	37.40	158	240	Vertical
3	10515.2700	43.13	-94.93	-51.80	-13.00	38.80	196	135	Vertical
4	14020.3600	39.54	-90.15	-50.61	-13.00	37.61	142	314	Vertical
5	15842.6	43.86	-90.65	-46.79	-13.00	33.79	236	197	Vertical
6	17525.4500	40.82	-89.79	-48.97	-13.00	35.97	261	114	Vertical

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)





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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
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-1.000000	-0.000286	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-8.400000	-0.002400	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-3.100000	-0.000886	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VH	NT	-18.800000	-0.005371	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VN	NT	-12.800000	-0.003657	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VL	NT	-16.200000	-0.004629	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-10.100000	-0.002886	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-8.200000	-0.002343	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-10.900000	-0.003114	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-8.200000	-0.002343	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-7.500000	-0.002143	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-4.100000	-0.001171	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-8.100000	-0.002314	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-12.800000	-0.003657	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-13.100000	-0.003743	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-30	-2.800000	-0.000800	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-20	-16.400000	-0.004686	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-10	1.000000	0.000286	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	0	-13.300000	-0.003800	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	10	-2.600000	-0.000743	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	20	-4.100000	-0.001171	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	30	-9.100000	-0.002600	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	40	-3.200000	-0.000914	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	50	-8.700000	-0.002486	PASS

The End



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