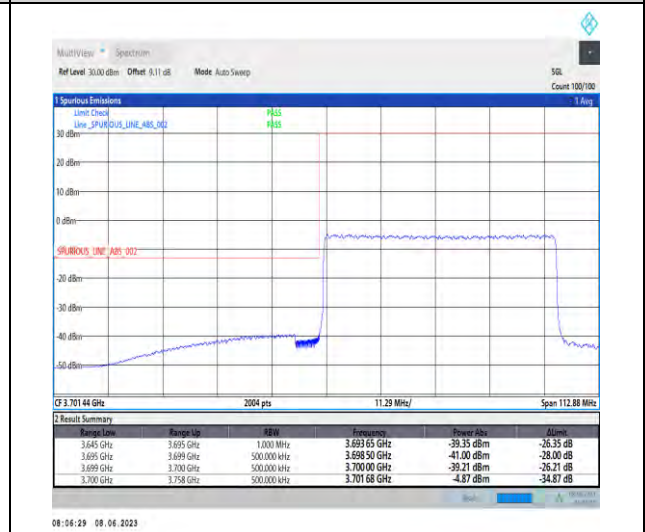
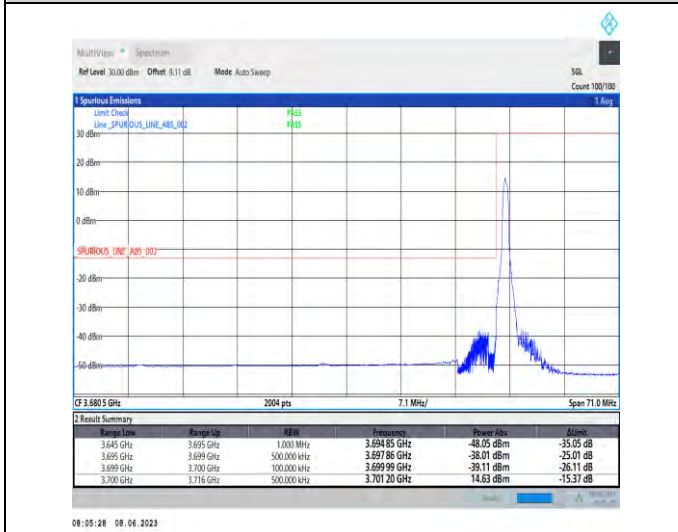


1-N78-3700-3800-PC3-30-50-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N78-3700-3800-PC3-30-50-L-3-DFT-PI2BPSK-Outer_Full-128@0-Ant1-1--PASS-see graph



1-N78-3700-3800-PC3-30-50-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N78-3700-3800-PC3-30-50-L-6-CP-QPSK-Outer_Full-133@0-Ant1-1--PASS-see graph



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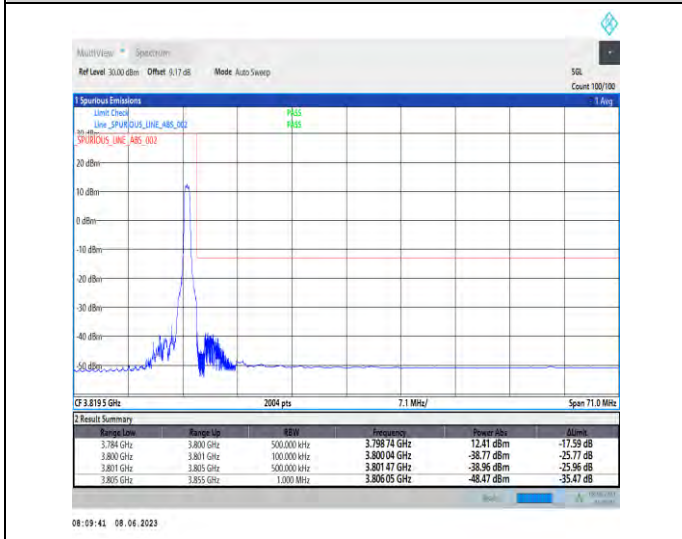
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1-N78-3700-3800-PC3-30-50-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@132-Ant1-1--PASS-see graph



1-N78-3700-3800-PC3-30-50-H-3-DFT-PI2BPSK-Outer_Full-128@0-Ant1-1--PASS-see graph



1-N78-3700-3800-PC3-30-50-H-5-CP-QPSK-Edge_1RB_Right-1@132-Ant1-1--PASS-see graph

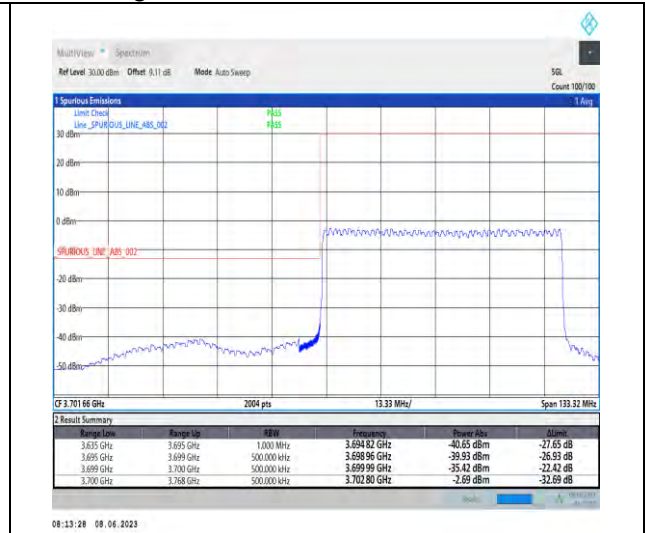
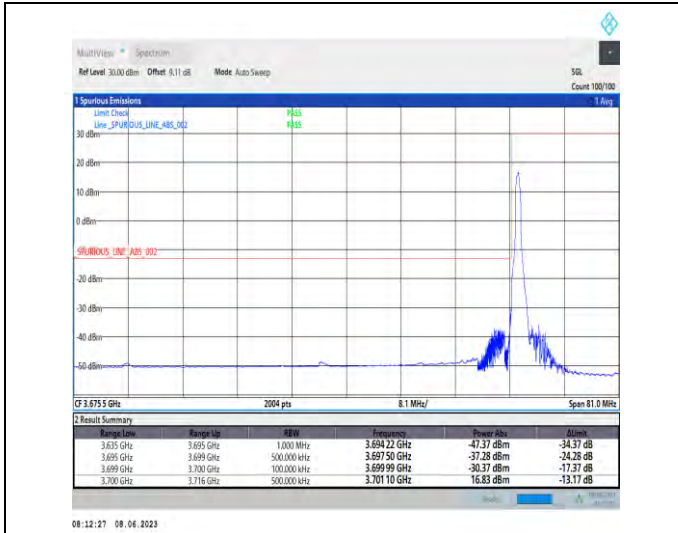


1-N78-3700-3800-PC3-30-50-H-6-CP-QPSK-Outer_Full-133@0-Ant1-1--PASS-see graph



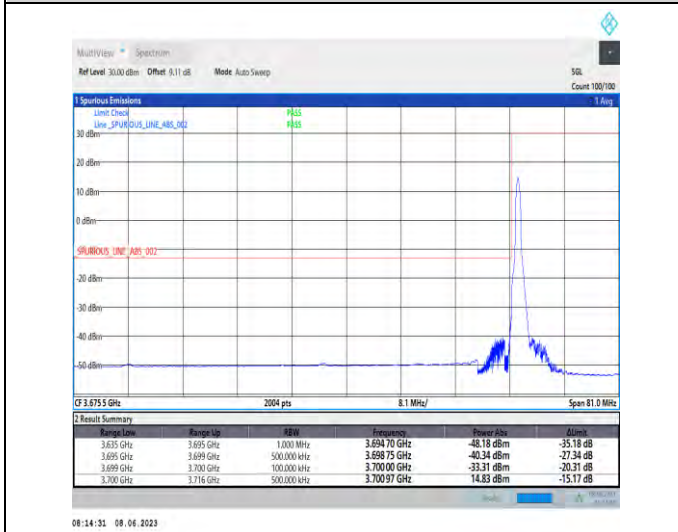
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1-N78-3700-3800-PC3-30-60-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N78-3700-3800-PC3-30-60-L-3-DFT-PI2BPSK-Outer_Full-162@0-Ant1-1--PASS-see graph



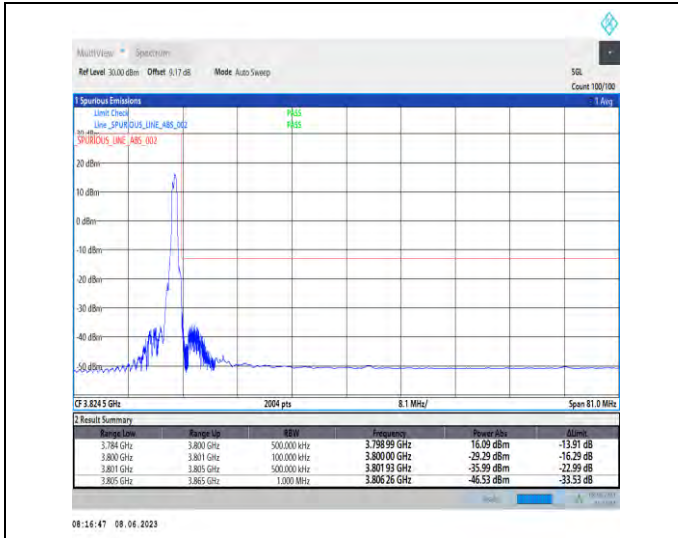
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1-N78-3700-3800-PC3-30-60-L-6-CP-QPSK-Outer_Full-162@0-Ant1-1--PASS-see graph



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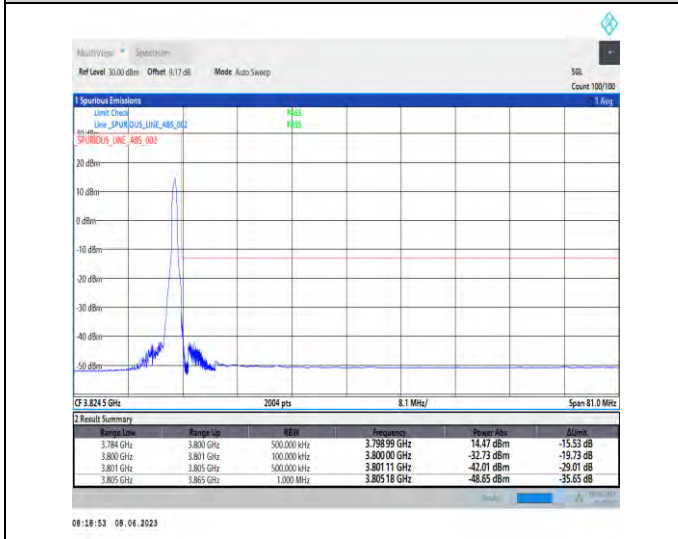
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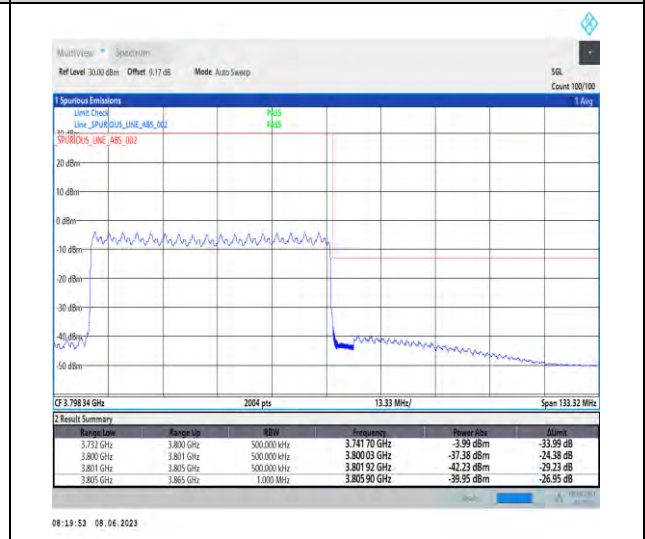
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1-N78-3700-3800-PC3-30-60-H-3-DFT-PI2BPSK-Outer_Full-162@0-Ant1-1--PASS-see graph



1-N78-3700-3800-PC3-30-60-H-5-CP-QPSK-Edge_1RB_Right-1@161-Ant1-1--PASS-see graph

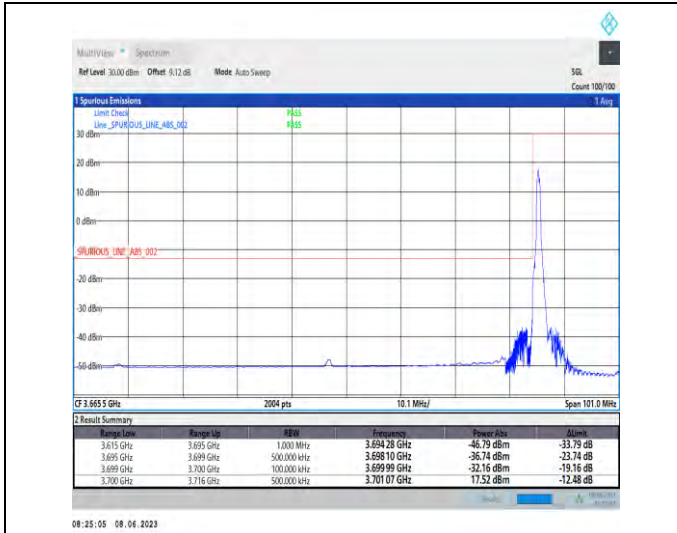


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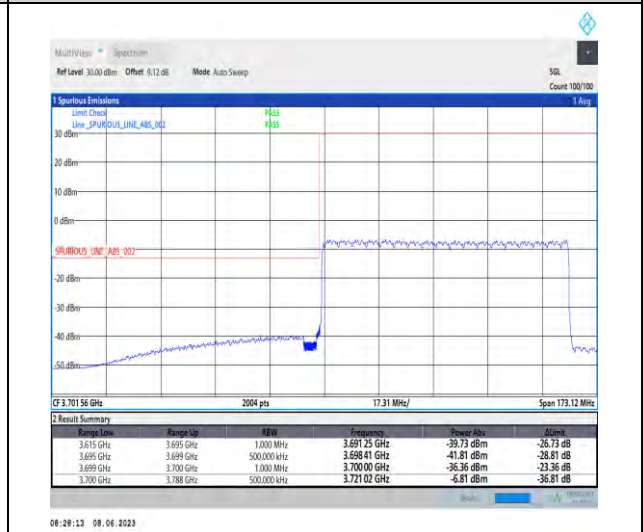
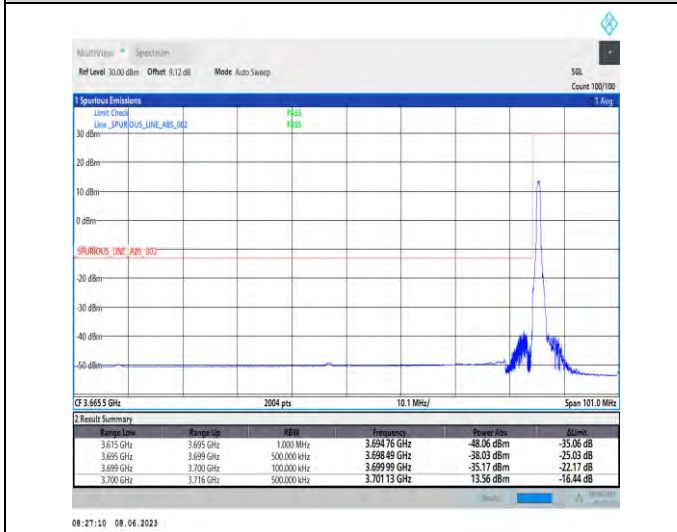
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1-N78-3700-3800-PC3-30-80-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N78-3700-3800-PC3-30-80-L-3-DFT-PI2BPSK-Outer_Full-216@0-Ant1-1--PASS-see graph



1-N78-3700-3800-PC3-30-80-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N78-3700-3800-PC3-30-80-L-6-CP-QPSK-Outer_Full-217@0-Ant1-1--PASS-see graph



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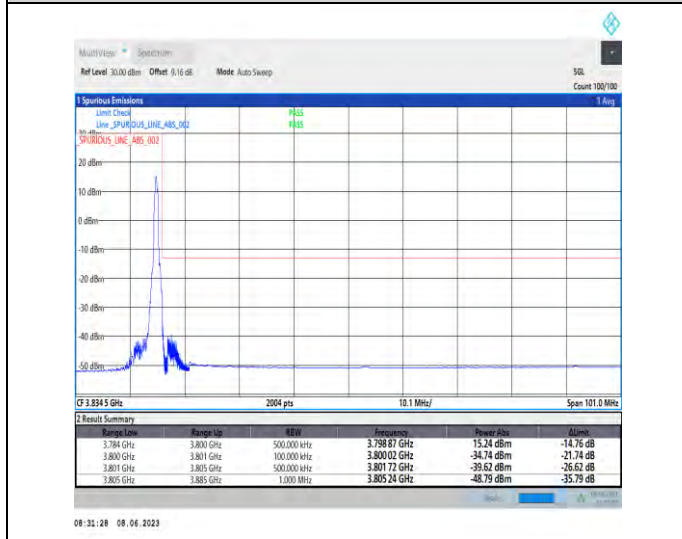
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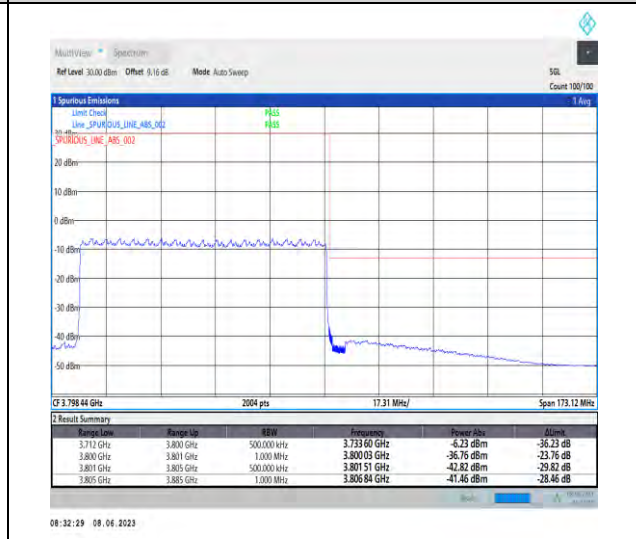
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1-N78-3700-3800-PC3-30-80-H-3-DFT-PI2BPSK-Outer_Full-216@0-Ant1-1--PASS-see graph



1-N78-3700-3800-PC3-30-80-H-5-CP-QPSK-Edge_1RB_Right-1@216-Ant1-1--PASS-see graph

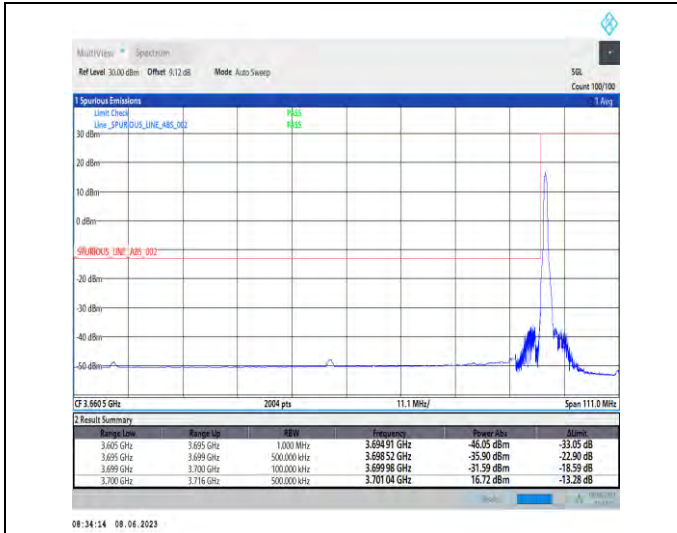


1-N78-3700-3800-PC3-30-80-H-6-CP-QPSK-Outer_Full-217@0-Ant1-1--PASS-see graph



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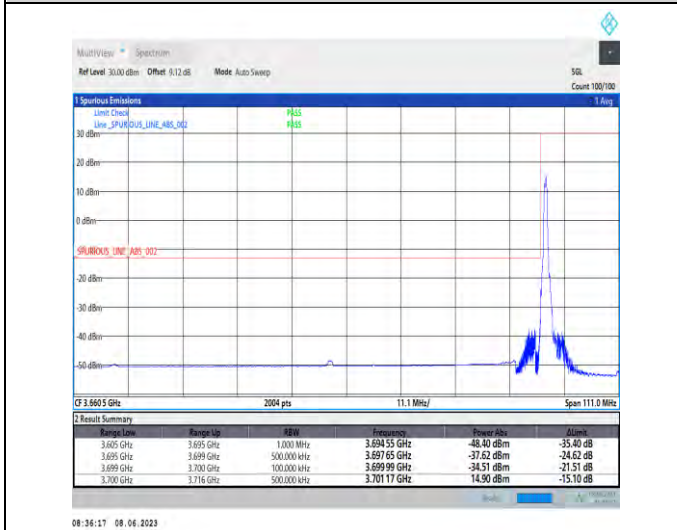
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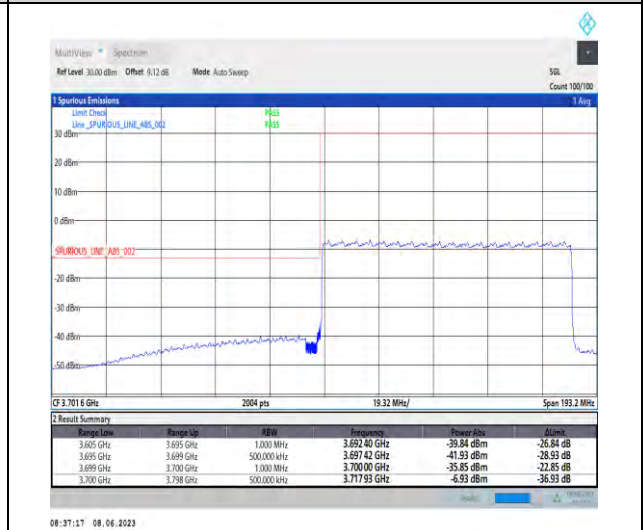
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1-N78-3700-3800-PC3-30-90-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

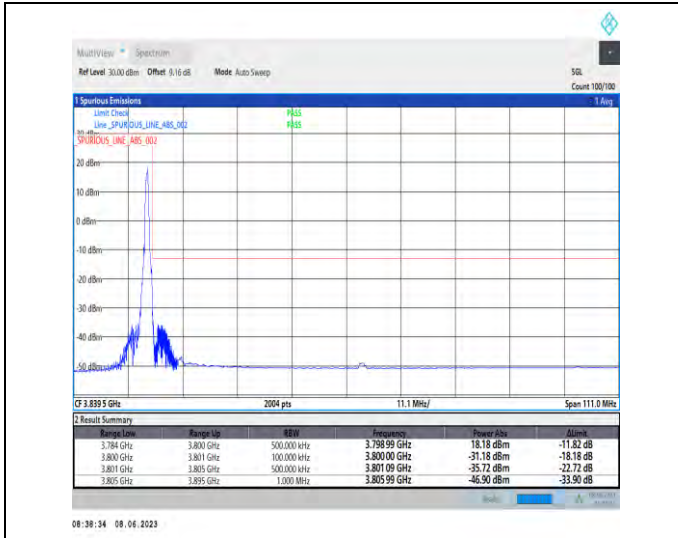


1-N78-3700-3800-PC3-30-90-L-6-CP-QPSK-Outer_Full-245@0-Ant1-1--PASS-see graph



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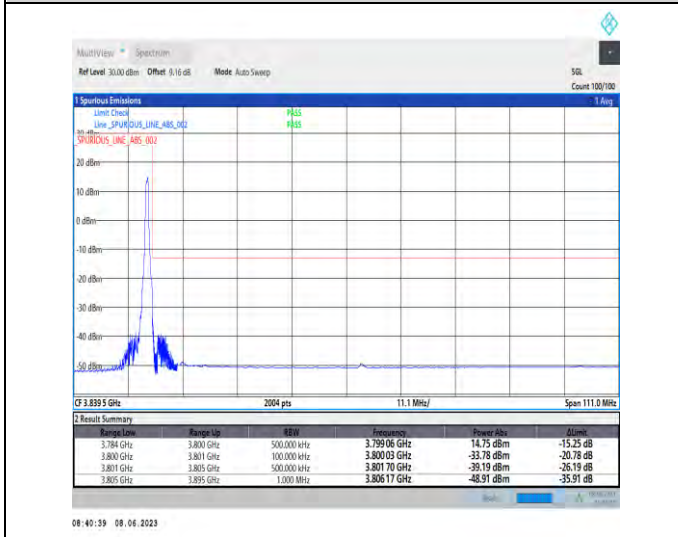
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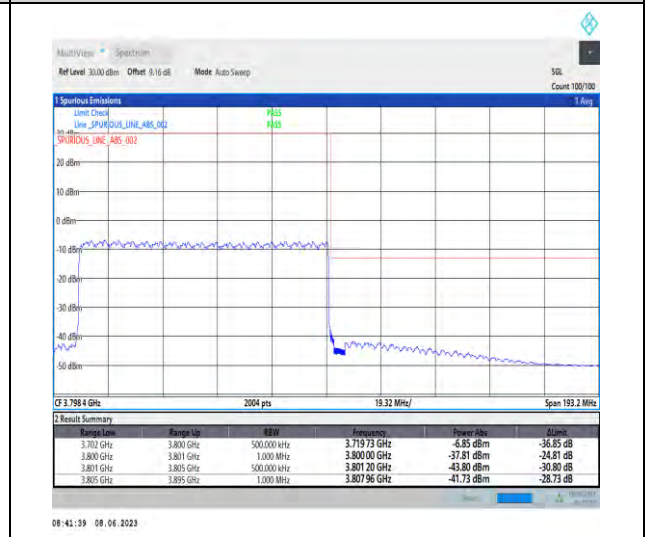
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1-N78-3700-3800-PC3-30-90-H-3-DFT-PI2BPSK-Outer_Full-240@0-Ant1-1--PASS-see graph



1-N78-3700-3800-PC3-30-90-H-5-CP-QPSK-Edge_1RB_Right-1@244-Ant1-1--PASS-see graph



1-N78-3700-3800-PC3-30-90-H-6-CP-QPSK-Outer_Full-245@0-Ant1-1--PASS-see graph

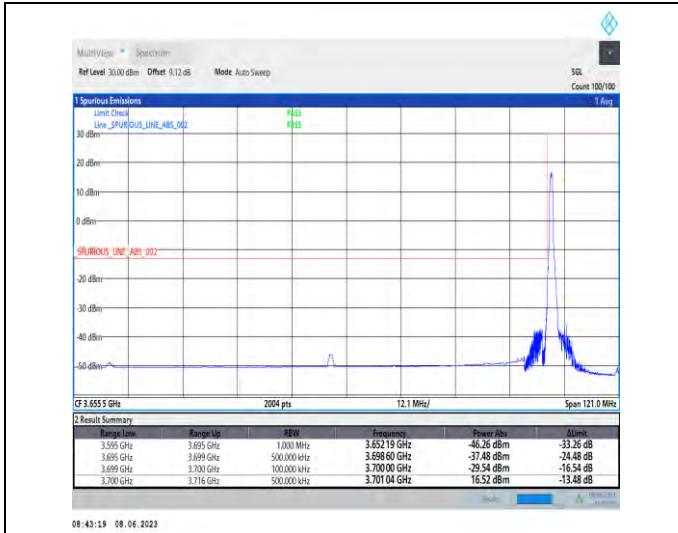


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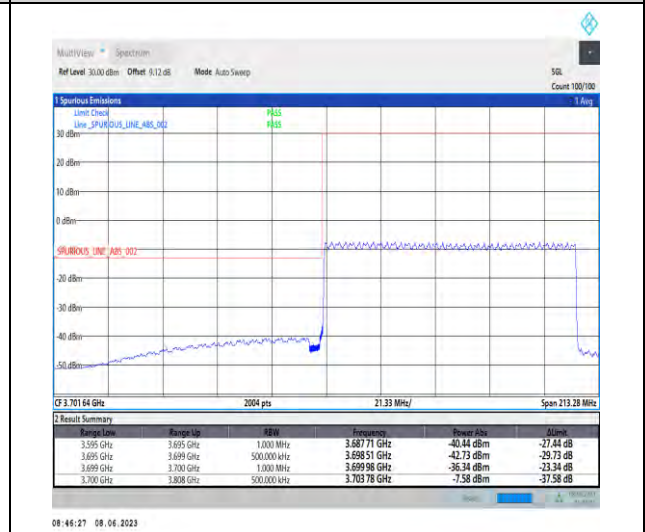
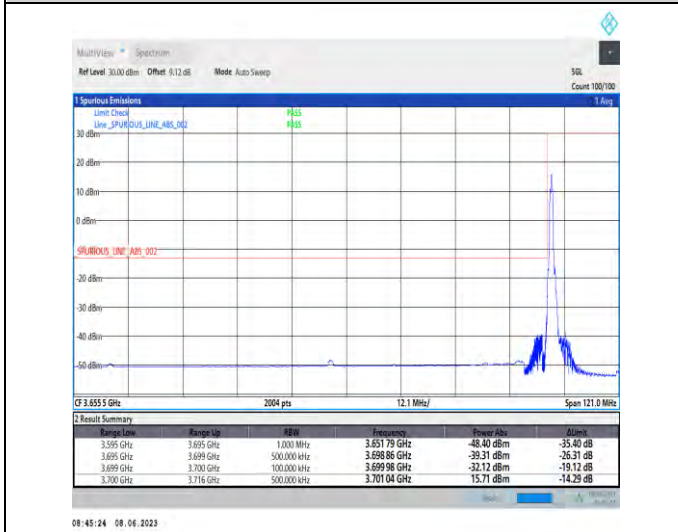
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1-N78-3700-3800-PC3-30-100-L-1-DFT-PI2BPSK-Edge_e_1RB_Left-1@0-Ant1-1--PASS-see graph

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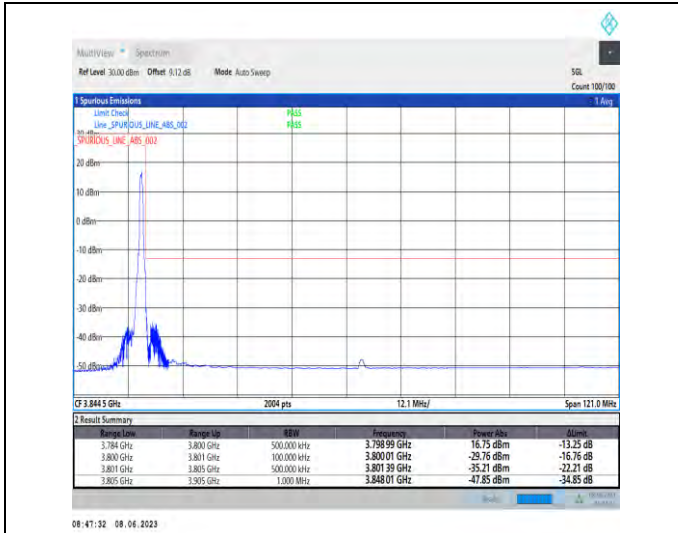
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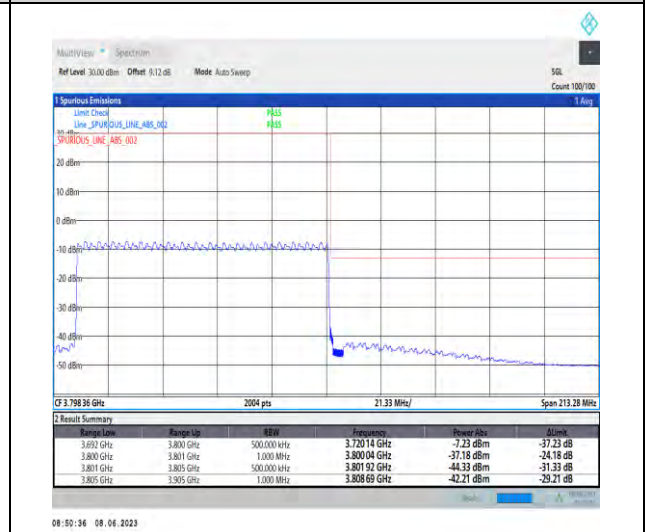
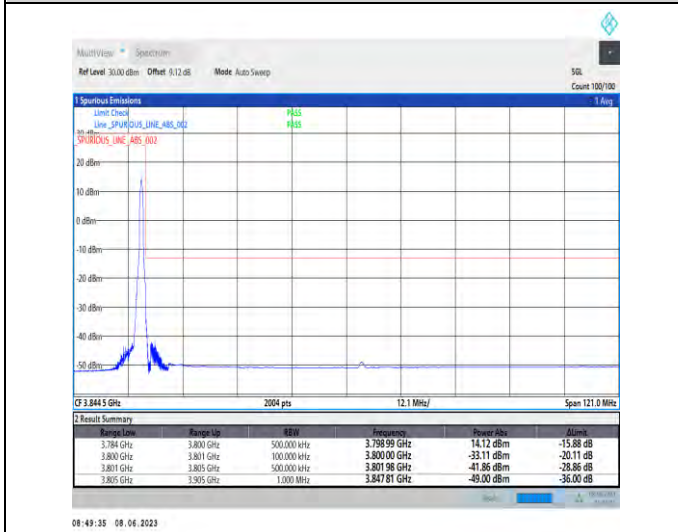
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1-N78-3700-3800-PC3-30-100-H-2-DFT-PI2BPSK-Edge_1_RB_Right-1@272-Ant1-1--PASS-see graph

1-N78-3700-3800-PC3-30-100-H-3-DFT-PI2BPSK-Outer_Full-270@0-Ant1-1--PASS-see graph



1-N78-3700-3800-PC3-30-100-H-5-CP-QPSK-Edge_1_RB_Right-1@272-Ant1-1--PASS-see graph

1-N78-3700-3800-PC3-30-100-H-6-CP-QPSK-Outer_Full-273@0-Ant1-1--PASS-see graph



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Conducted Spurious Emission for SA

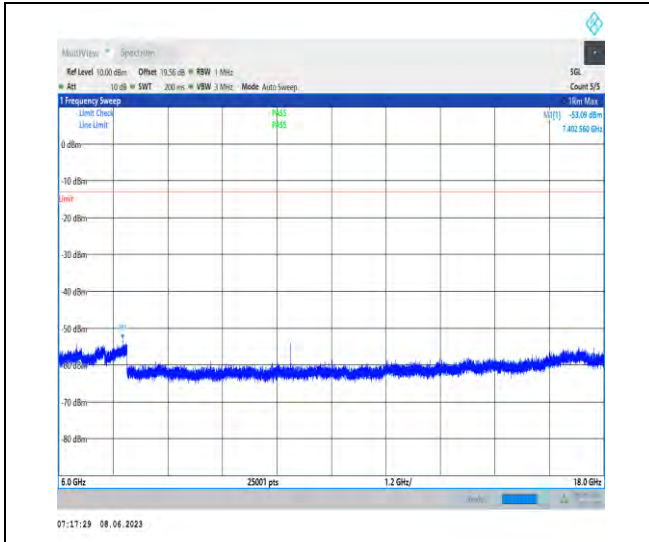
Test Graphs

<p>1-N78-3700-3800-PC3-30-100-L-1-N/A-DFT-PI2BP SK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.07--80. 38--43-PASS</p>	<p>1-N78-3700-3800-PC3-30-100-L-1-N/A-DFT-PI2BPS K-Inner_1RB_Left-1@1-0.15-30-Ant1-0.60--82.57--3 3-PASS</p>
<p>1-N78-3700-3800-PC3-30-100-L-1-N/A-DFT-PI2BP SK-Inner_1RB_Left-1@1-30-1000-Ant1-66.86--67.5 9--13-PASS</p>	<p>1-N78-3700-3800-PC3-30-100-L-1-N/A-DFT-PI2BPS K-Inner_1RB_Left-1@1-1000-6000-Ant1-3394.00--39 .38--13-PASS</p>

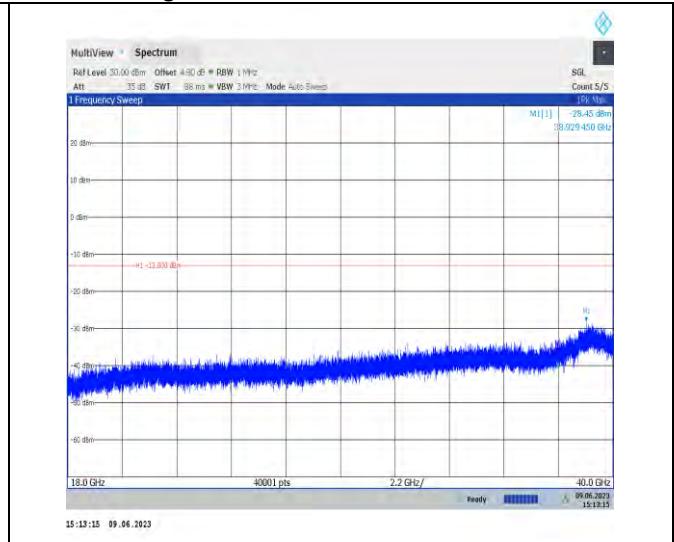


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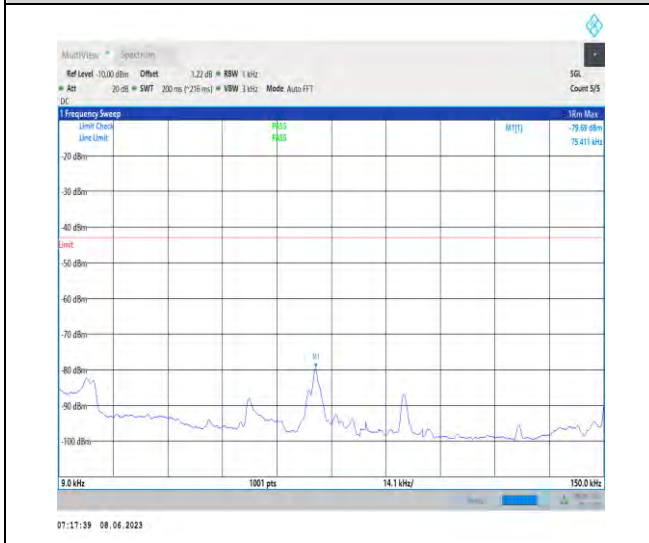
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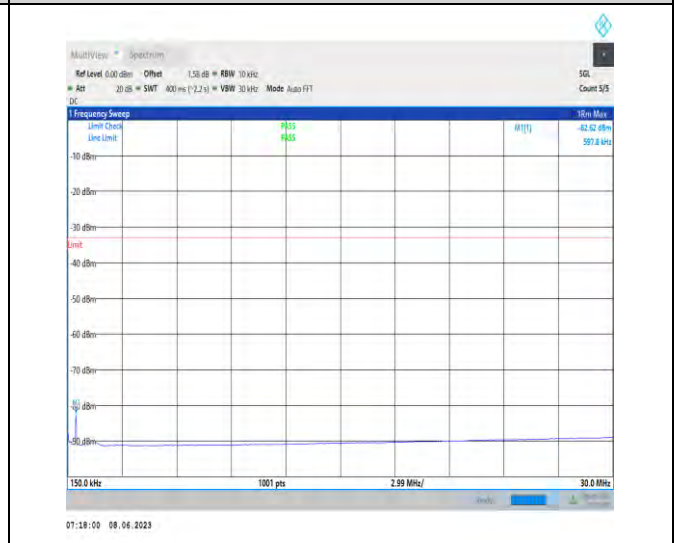
1-N78-3700-3800-PC3-30-100-L-1-N/A-DFT-PI2BP
SK-Inner_1RB_Left-1@1-6000-18000-Ant1-7402.56
--53.09--13-PASS



1-N78-3700-3800-PC3-30-100-L-1-N/A-DFT-PI2BPS
K-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00
--62.42--13-PASS



1-N78-3700-3800-PC3-30-100-M-1-N/A-DFT-PI2BP
SK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.08--79.
69--43-PASS

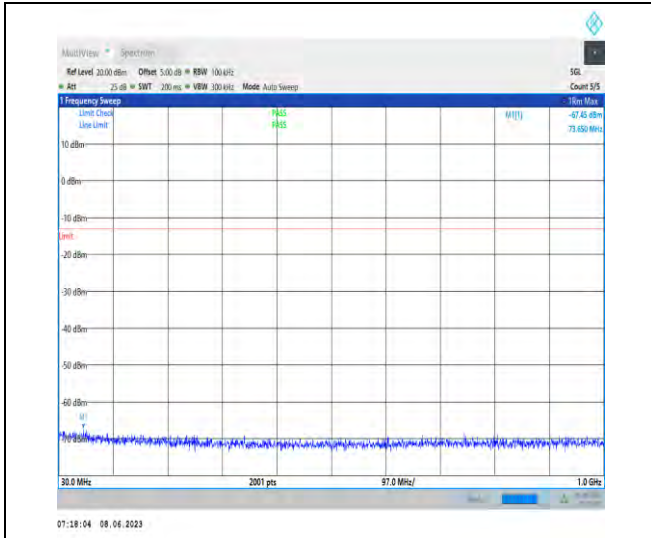


1-N78-3700-3800-PC3-30-100-M-1-N/A-DFT-PI2BPS
K-Inner_1RB_Left-1@1-0.15-30-Ant1-0.60--82.62--3
3-PASS

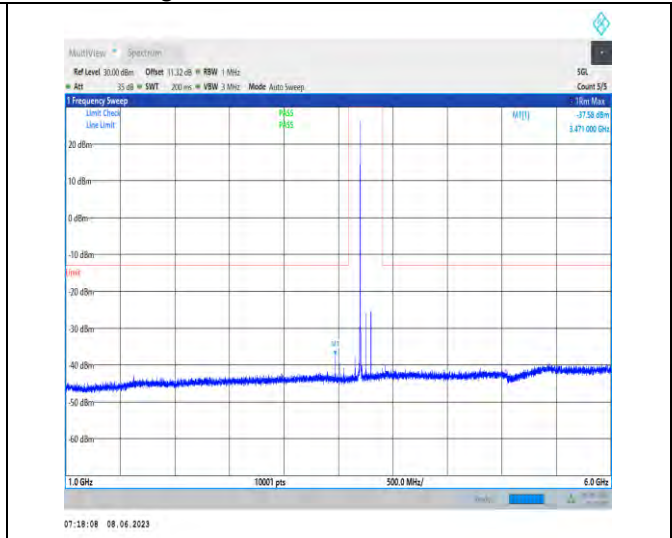


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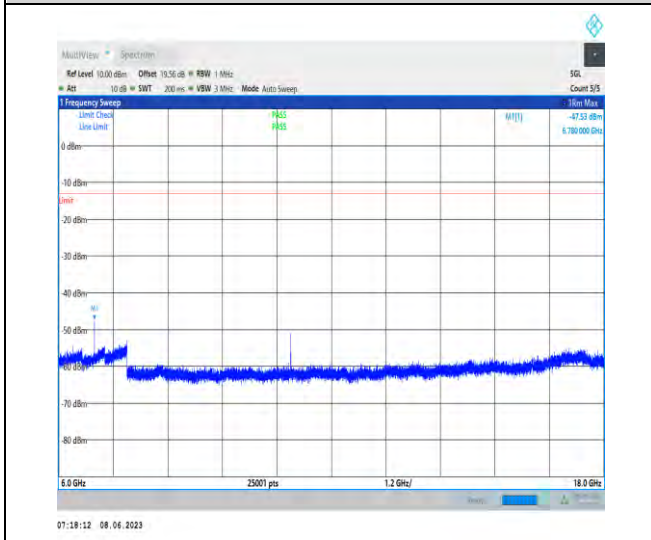
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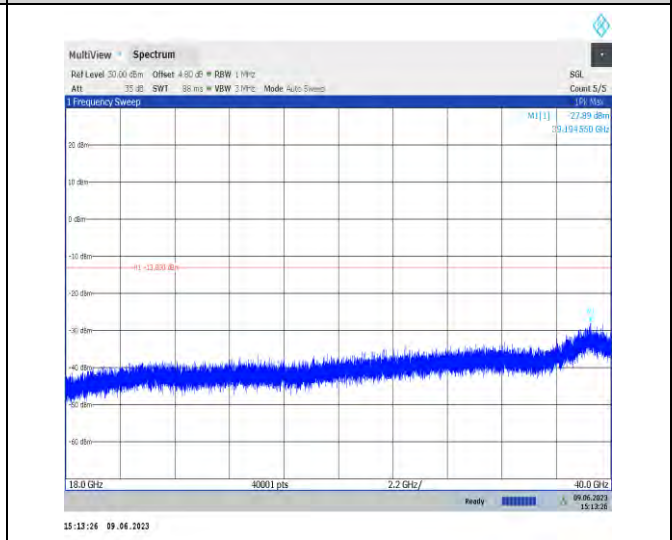
1-N78-3700-3800-PC3-30-100-M-1-N/A-DFT-PI2BP
SK-Inner_1RB_Left-1@1-30-1000-Ant1-73.65--67.4
5--13-PASS



1-N78-3700-3800-PC3-30-100-M-1-N/A-DFT-PI2BPS
K-Inner_1RB_Left-1@1-1000-6000-Ant1-3471.00--37.58--13-PASS



1-N78-3700-3800-PC3-30-100-M-1-N/A-DFT-PI2BP
SK-Inner_1RB_Left-1@1-6000-18000-Ant1-6780.00
--47.53--13-PASS

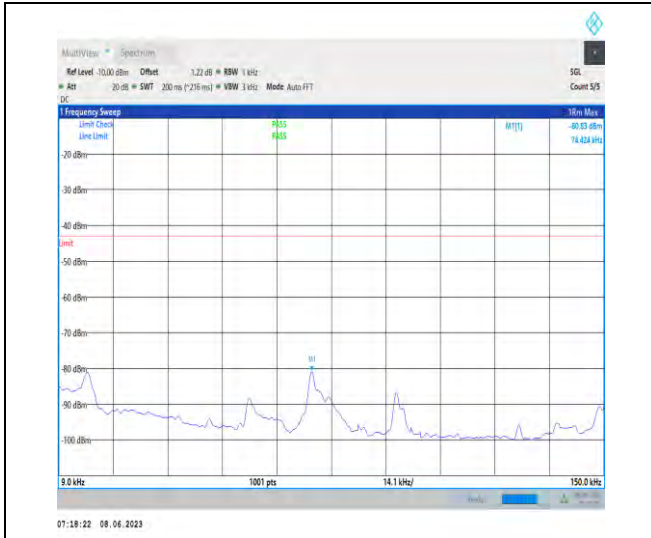


1-N78-3700-3800-PC3-30-100-M-1-N/A-DFT-PI2BPS
K-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00
--62.22--13-PASS

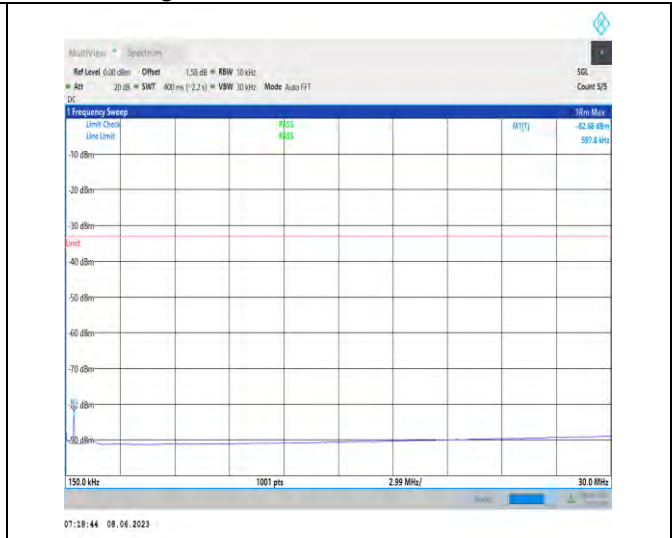


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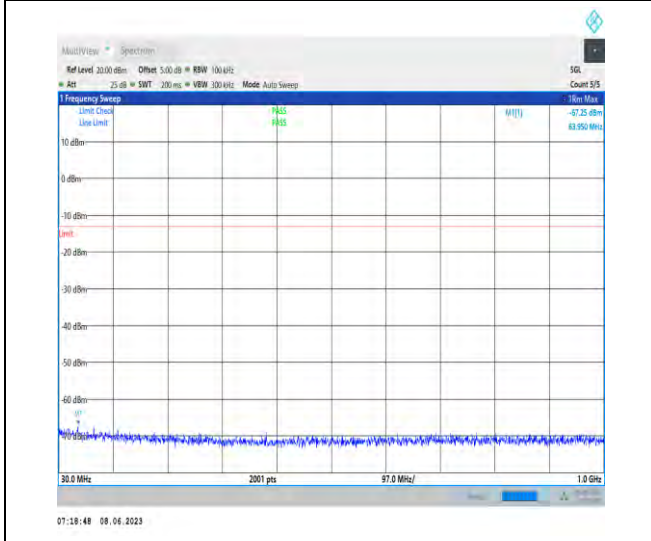
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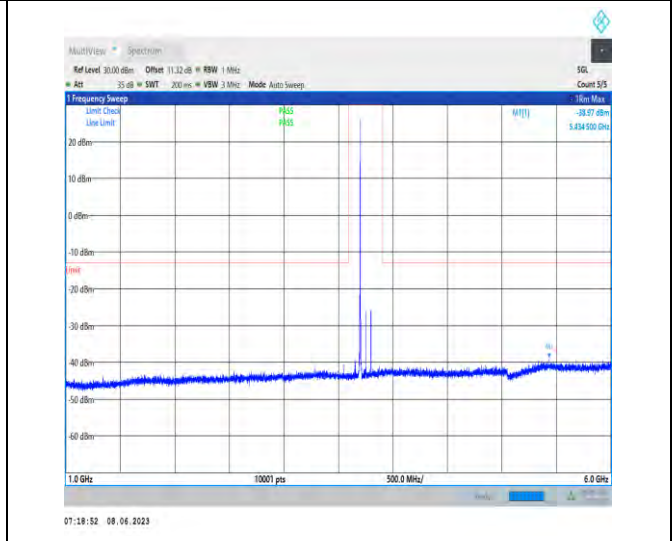
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SK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.07--80.
83--43-PASS



1-N78-3700-3800-PC3-30-100-H-1-N/A-DFT-PI2BPS
K-Inner_1RB_Left-1@1-0.15-30-Ant1-0.60--82.68--3
3-PASS



1-N78-3700-3800-PC3-30-100-H-1-N/A-DFT-PI2BP
SK-Inner_1RB_Left-1@1-30-1000-Ant1-63.95--67.2
5--13-PASS



1-N78-3700-3800-PC3-30-100-H-1-N/A-DFT-PI2BPS
K-Inner_1RB_Left-1@1-1000-6000-Ant1-5434.50--38
.97--13-PASS



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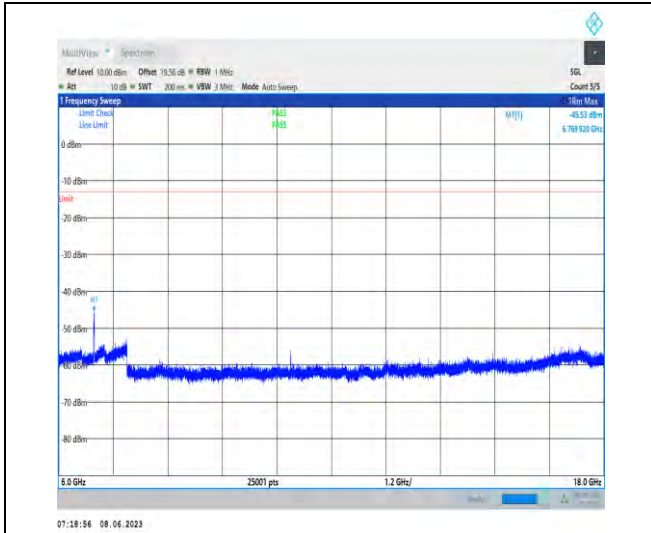
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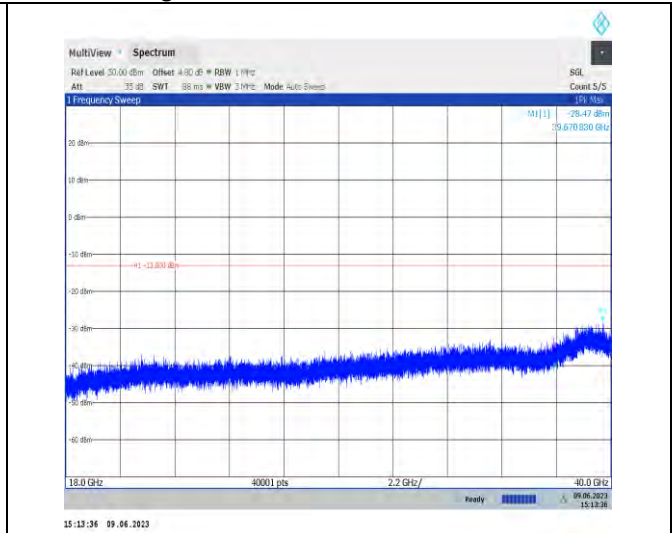
Report No.: SEWM2305000160RG02

Rev.: 01

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1-N78-3700-3800-PC3-30-100-H-1-N/A-DFT-PI2BP
SK-Inner_1RB_Left-1@1-6000-18000-Ant1-6769.92
--45.53--13-PASS



1-N78-3700-3800-PC3-30-100-H-1-N/A-DFT-PI2BPS
K-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00
--61.88--13-PASS



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Field Strength of Spurious Radiation

Test Band = SA n78_100MHz_TM1

Test Channel = Mid3700-3800 ANT3

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7410.1800	39.99	-42.83	36.35	-61.75	-13.00	48.75	188	360	Horizontal
2	8449.25	38.86	-41.58	36.58	-61.41	-13.00	48.41	175	352	Horizontal
3	9267.475	36.54	-40.03	36.81	-61.94	-13.00	48.94	146	152	Horizontal
4	11115.2700	30.01	-37.57	38.71	-64.11	-13.00	51.11	122	358	Horizontal
5	12834.775	31.08	-36.71	39.05	-61.84	-13.00	48.84	321	360	Horizontal
6	14820.3600	26.87	-35.03	41.23	-62.19	-13.00	49.19	302	360	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7410.1800	39.44	-42.83	36.35	-62.30	-13.00	49.30	165	2	Vertical
2	8406.125	39.80	-41.40	36.60	-60.26	-13.00	47.26	184	334	Vertical
3	9375	36.22	-39.96	37.01	-61.99	-13.00	48.99	157	74	Vertical
4	11115.2700	30.32	-37.57	38.71	-63.80	-13.00	50.80	199	214	Vertical
5	13889.9	29.75	-35.64	40.70	-60.45	-13.00	47.45	136	288	Vertical
6	14820.3600	27.47	-35.03	41.23	-61.59	-13.00	48.59	211	197	Vertical



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Test Band = SA n78_100MHz_TM1
 Test Channel = Mid3700-3800 ANT5

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7410.1800	39.83	-42.83	36.35	-61.91	-13.00	48.91	169	104	Horizontal
2	8952.95	37.76	-40.89	36.32	-62.07	-13.00	49.07	185	4	Horizontal
3	9587.75	36.26	-39.29	37.42	-60.88	-13.00	47.88	142	360	Horizontal
4	11115.2700	30.32	-37.57	38.71	-63.80	-13.00	50.80	218	239	Horizontal
5	12871	30.30	-36.80	39.06	-62.70	-13.00	49.70	174	30	Horizontal
6	14820.3600	27.68	-35.03	41.23	-61.38	-13.00	48.38	133	44	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7410.1800	40.19	-42.83	36.35	-61.55	-13.00	48.55	248	255	Vertical
2	8890.85	37.95	-40.93	36.35	-61.89	-13.00	48.89	174	181	Vertical
3	9653.875	35.37	-39.35	37.54	-61.70	-13.00	48.70	126	346	Vertical
4	11115.2700	30.13	-37.57	38.71	-63.99	-13.00	50.99	159	314	Vertical
5	13903.125	29.66	-35.55	40.73	-60.42	-13.00	47.42	136	255	Vertical
6	14820.3600	27.86	-35.03	41.23	-61.20	-13.00	48.20	251	120	Vertical



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Test Band = NR NSA 41A-n78A_ TM1

Test Channel = Mid 3700-3800 ANT3

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6995.075	41.00	-43.03	36.07	-61.22	-13.00	48.22	214	316	Horizontal
2	9123.725	36.91	-40.30	38.29	-60.36	-13.00	47.36	158	270	Horizontal
3	10331.8	35.12	-38.89	38.84	-60.19	-13.00	47.19	147	196	Horizontal
4	11229.375	31.97	-36.79	39.11	-60.97	-13.00	47.97	175	344	Horizontal
5	12819.825	30.17	-36.67	39.65	-62.11	-13.00	49.11	142	121	Horizontal
6	15146.85	29.66	-34.14	39.02	-60.72	-13.00	47.72	126	30	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7475.2	48.74	-43.08	36.45	-53.14	-13.00	40.14	211	283	Vertical
2	8409.575	39.57	-41.41	37.35	-59.75	-13.00	46.75	125	360	Vertical
3	9601.55	35.83	-39.20	38.44	-60.20	-13.00	47.20	153	360	Vertical
4	10674.5	32.88	-37.62	39.12	-60.88	-13.00	47.88	144	360	Vertical
5	13970.975	29.42	-35.01	40.11	-60.74	-13.00	47.74	185	194	Vertical
6	15147.425	29.33	-34.14	39.02	-61.05	-13.00	48.05	169	43	Vertical



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Test Band = NR NSA 41A-n78A_ TM1
Test Channel = Mid 3700-3800 ANT5

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7467.725	44.47	-43.05	36.46	-57.38	-13.00	44.38	213	14	Horizontal
2	8589.55	38.88	-40.99	37.73	-59.64	-13.00	46.64	126	164	Horizontal
3	10686.575	33.04	-37.56	39.13	-60.65	-13.00	47.65	201	14	Horizontal
4	11474.325	32.11	-36.77	39.03	-60.89	-13.00	47.89	154	209	Horizontal
5	12831.9	30.49	-36.70	39.66	-61.81	-13.00	48.81	146	29	Horizontal
6	13916.35	29.86	-35.44	40.06	-60.78	-13.00	47.78	188	44	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7359.625	40.80	-43.01	36.51	-60.96	-13.00	47.96	142	226	Vertical
2	9088.075	37.45	-40.46	38.26	-60.01	-13.00	47.01	152	74	Vertical
3	10102.375	34.13	-38.71	38.65	-61.19	-13.00	48.19	156	240	Vertical
4	11139.675	32.77	-37.29	39.10	-60.69	-13.00	47.69	136	332	Vertical
5	12268.975	30.43	-36.79	39.11	-62.51	-13.00	49.51	256	43	Vertical
6	14441.325	28.37	-34.73	40.05	-61.57	-13.00	48.57	218	121	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N78 -3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-3.800000	-0.001026	PASS
N78 -3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-3.200000	-0.001236	PASS
N78 -3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-3.200000	-0.001027	PASS
N78 -3700-3800	30	100	CP-QPSK	M	Outer_Full	VH	NT	-2.200000	-0.000656	PASS
N78 -3700-3800	30	100	CP-QPSK	M	Outer_Full	VN	NT	-2.500000	-0.000632	PASS
N78 -3700-3800	30	100	CP-QPSK	M	Outer_Full	VL	NT	-9.300000	-0.002835	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 -3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-14.100000	-0.004635	PASS
N78 -3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-12.200000	-0.003353	PASS
N78 -3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-8.700000	-0.002352	PASS
N78 -3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-14.200000	-0.004253	PASS
N78 -3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-13.100000	-0.003256	PASS
N78 -3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-18.700000	-0.004863	PASS
N78 -3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-9.600000	-0.002560	PASS
N78 -3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-18.500000	-0.004933	PASS
N78 -3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-16.100000	-0.004293	PASS
N78 -3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	-30	-24.000000	-0.006400	PASS
N78 -3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	-20	-29.500000	-0.007867	PASS
N78 -3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	-10	-13.700000	-0.003653	PASS
N78 -3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	0	-15.200000	-0.004053	PASS
N78 -3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	10	-19.800000	-0.005280	PASS
N78 -3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	20	-15.700000	-0.004187	PASS
N78 -3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	30	-18.400000	-0.004907	PASS
N78 -3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	40	-13.300000	-0.003547	PASS



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-3700-3800										
N78	30	100	CP-QPSK	M	Outer_Full	NV	50	-17.000000	-0.004533	PASS
-3700-3800										

---End of Attachment---



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