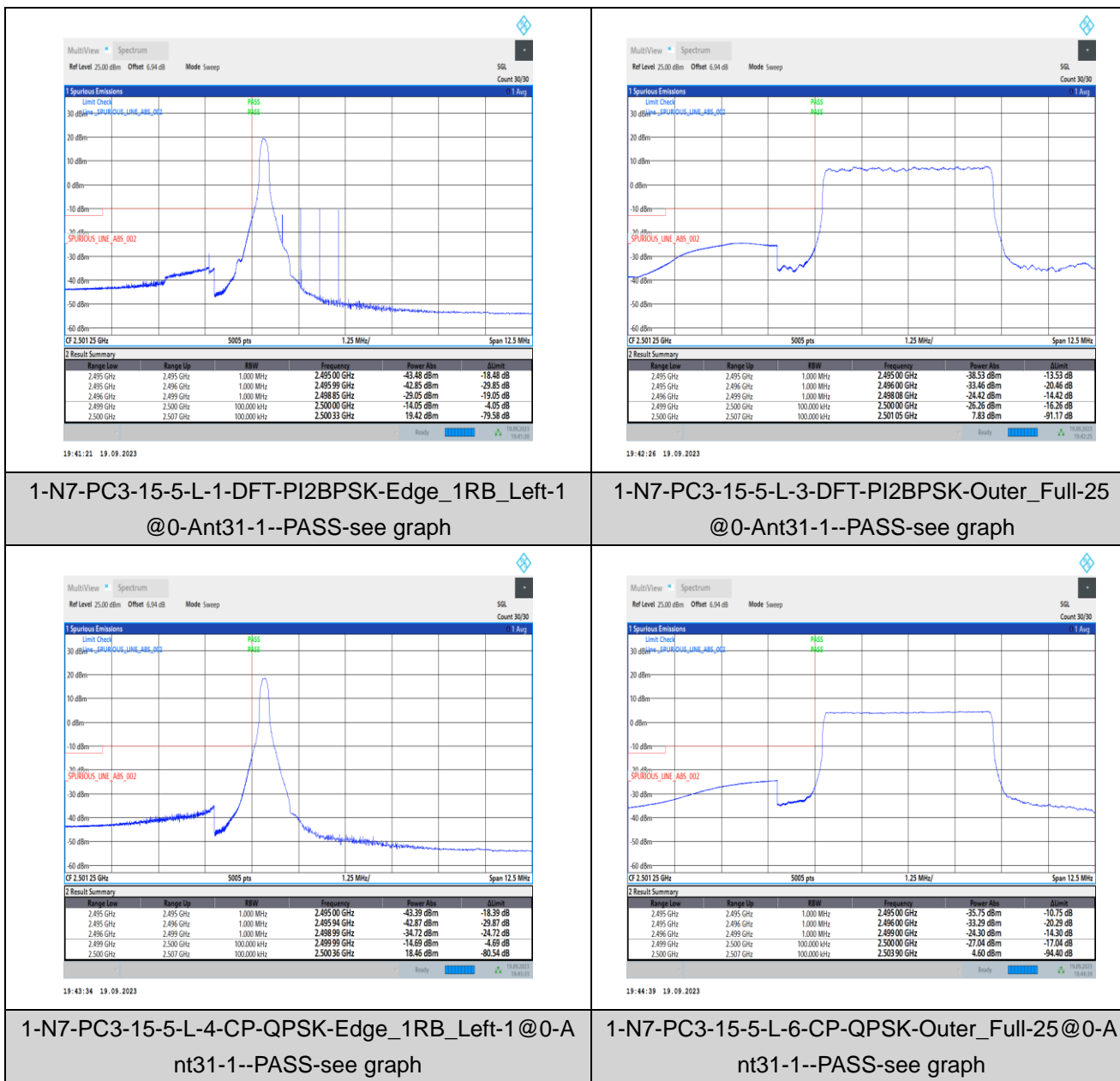


Band Edge for SA

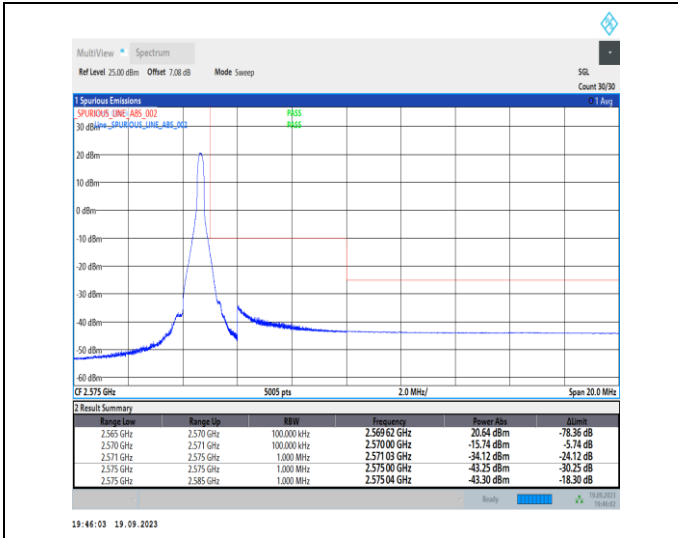
Test Graphs



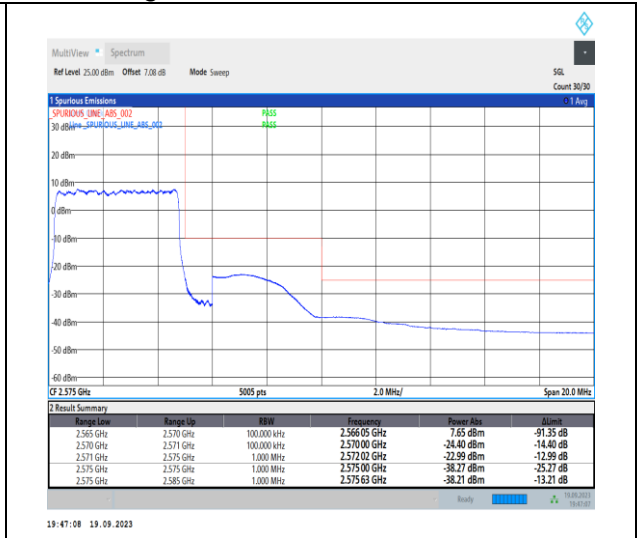
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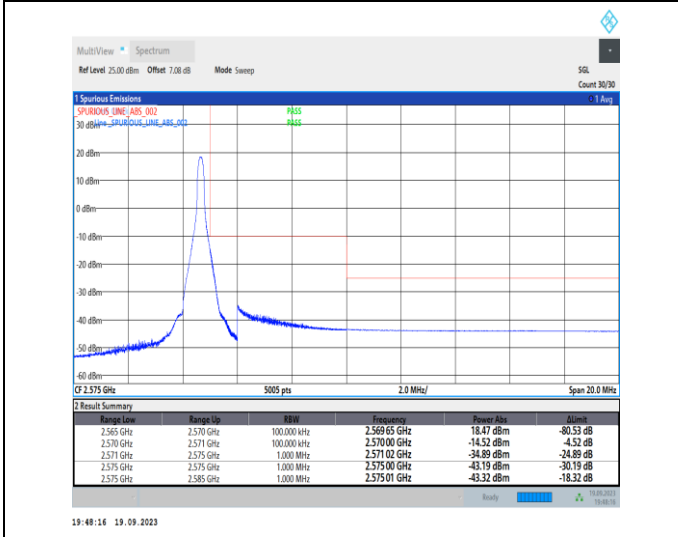
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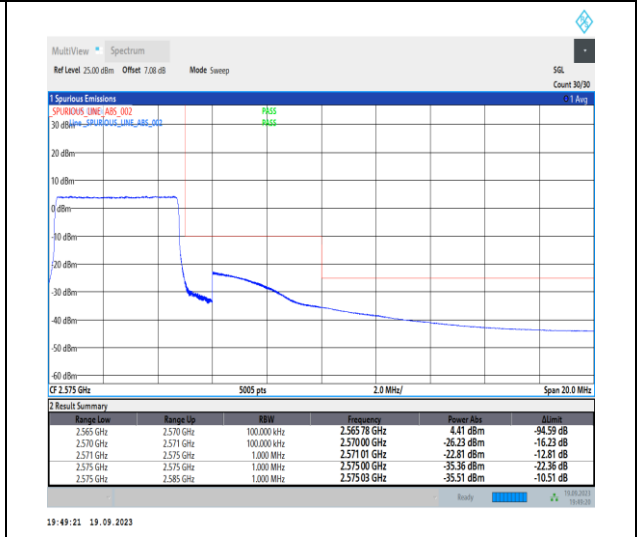
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1-N7-PC3-15-5-H-3-DFT-PI2BPSK-Outer_Full-25 @0-Ant31-1--PASS-see graph



1-N7-PC3-15-5-H-5-CP-QPSK-Edge_1RB_Right-1 @2 4-Ant31-1--PASS-see graph



1-N7-PC3-15-5-H-6-CP-QPSK-Outer_Full-25 @0-Ant31-1--PASS-see graph

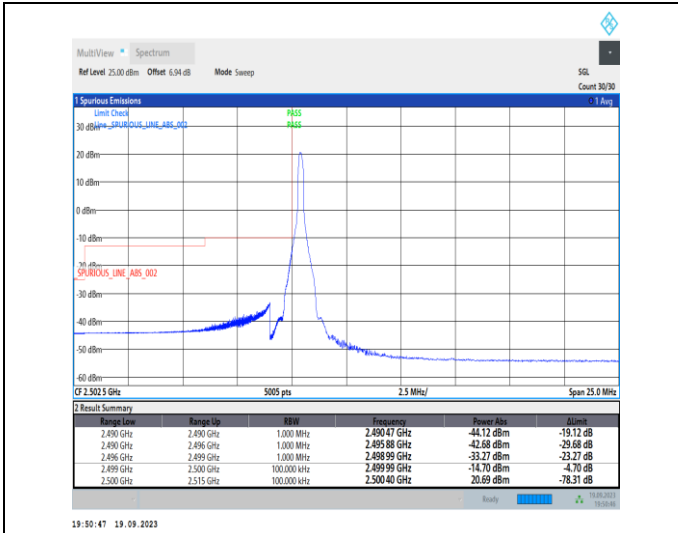


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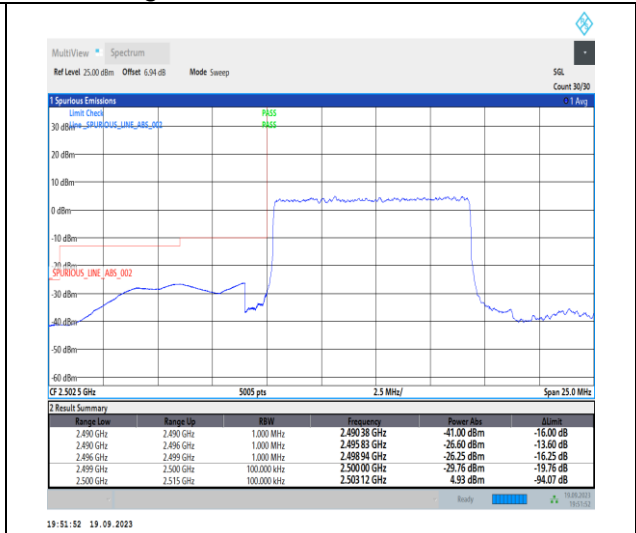
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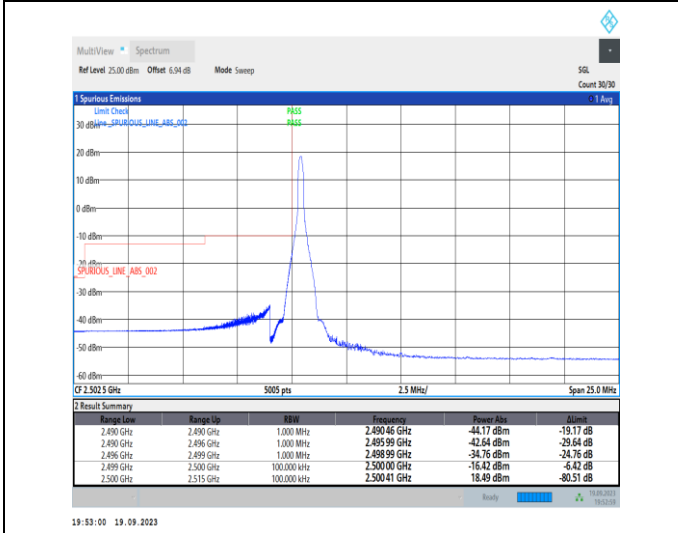
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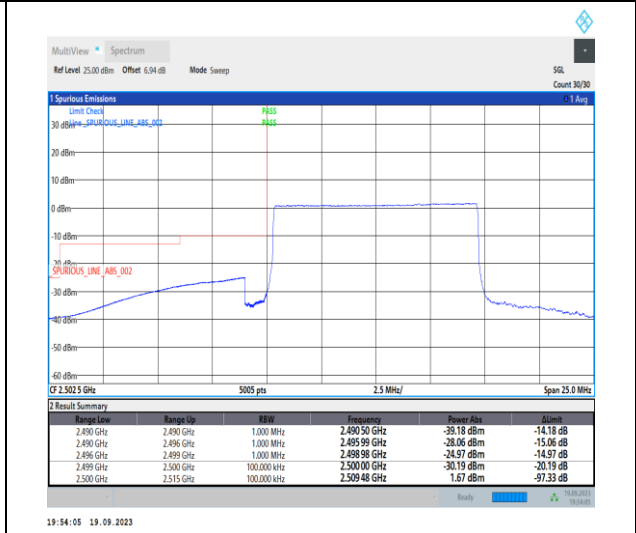
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1-N7-PC3-15-10-L-3-DFT-PI2BPSK-Outer_Full-50 @0-Ant31-1--PASS-see graph



1-N7-PC3-15-10-L-4-CP-QPSK-Edge_1RB_Left-1 @0-Ant31-1--PASS-see graph

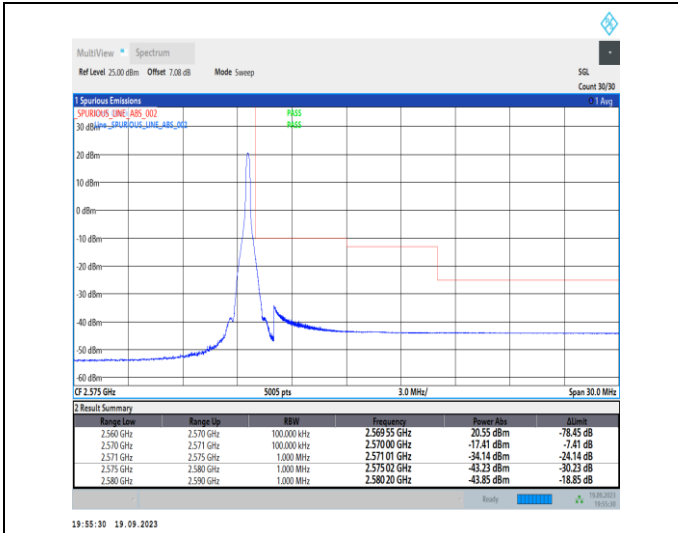


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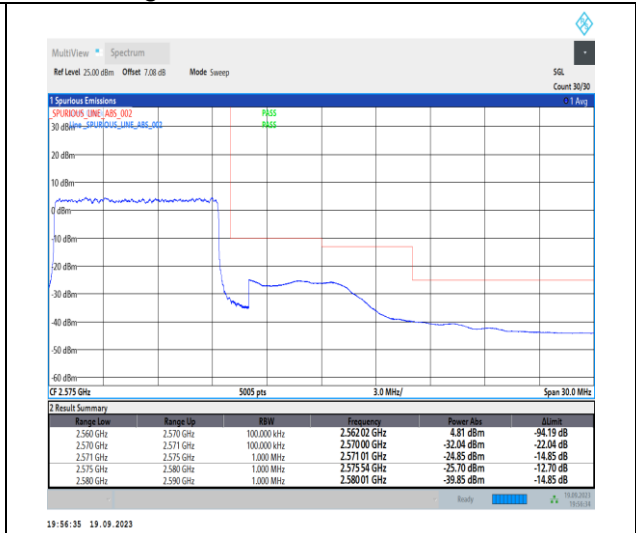


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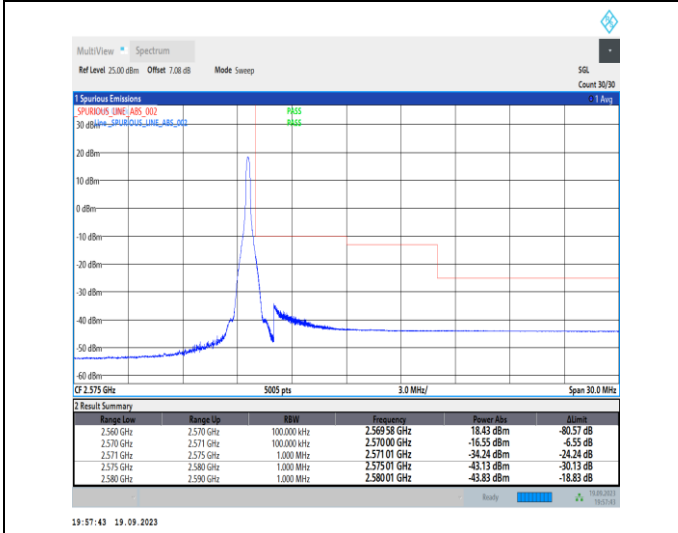
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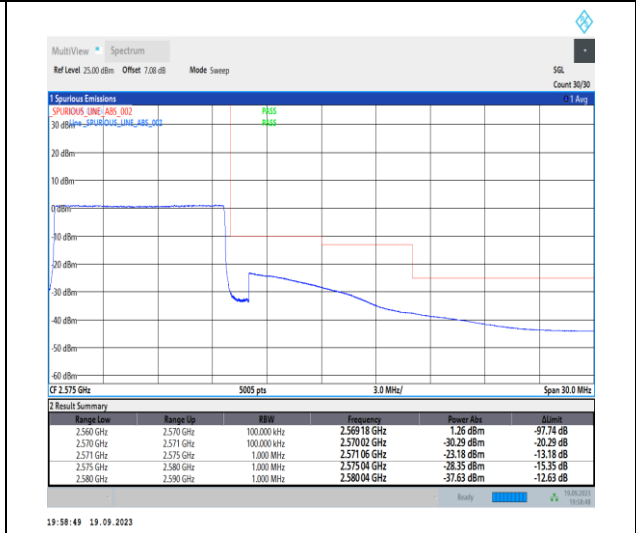
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1-N7-PC3-15-10-H-5-CP-QPSK-Edge_1RB_Right-1@51-Ant31-1--PASS-see graph



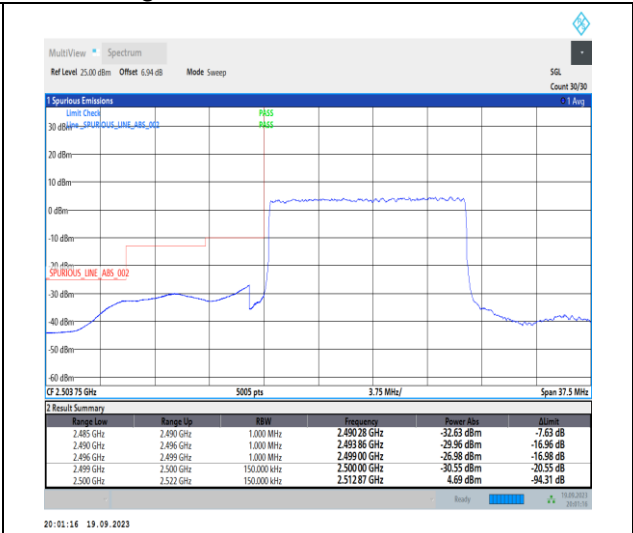
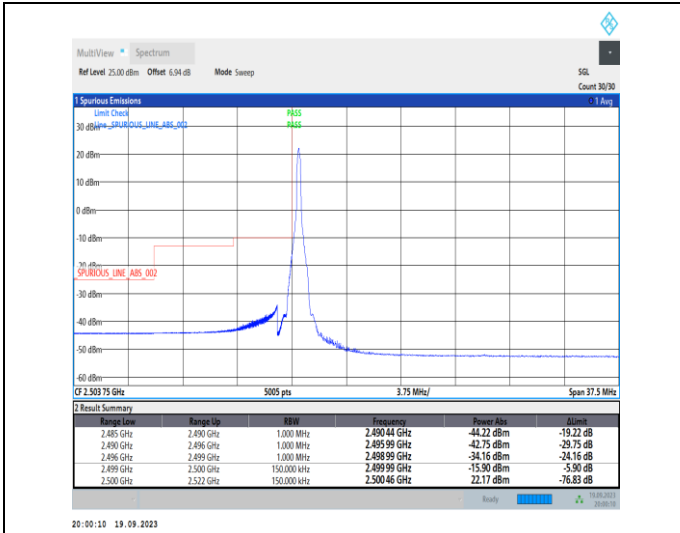
1-N7-PC3-15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant31-1--PASS-see graph



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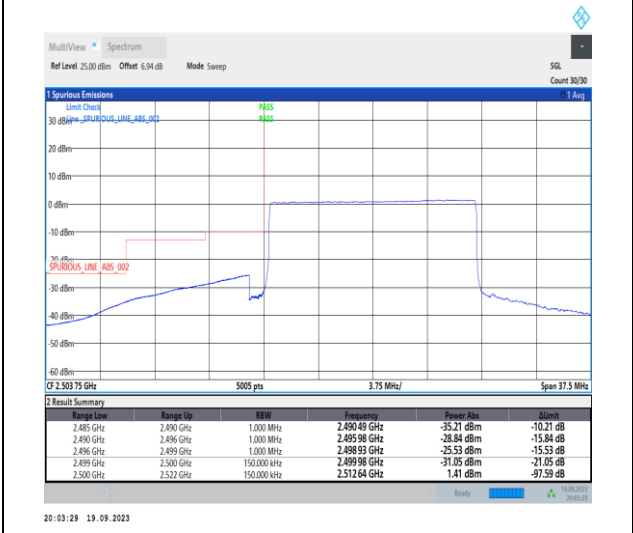
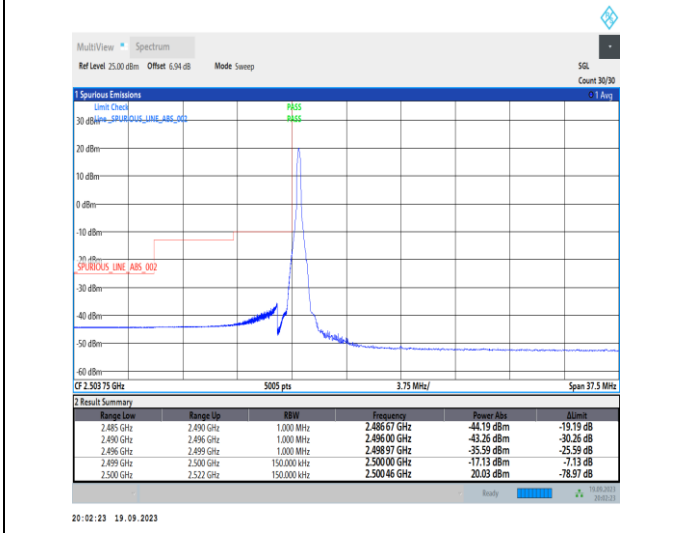
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1-N7-PC3-15-15-L-1-DFT-PI2BPSK-Edge_1RB_Left-1 @0-Ant31-1--PASS-see graph

1-N7-PC3-15-15-L-3-DFT-PI2BPSK-Outer_Full-75 @0-Ant31-1--PASS-see graph



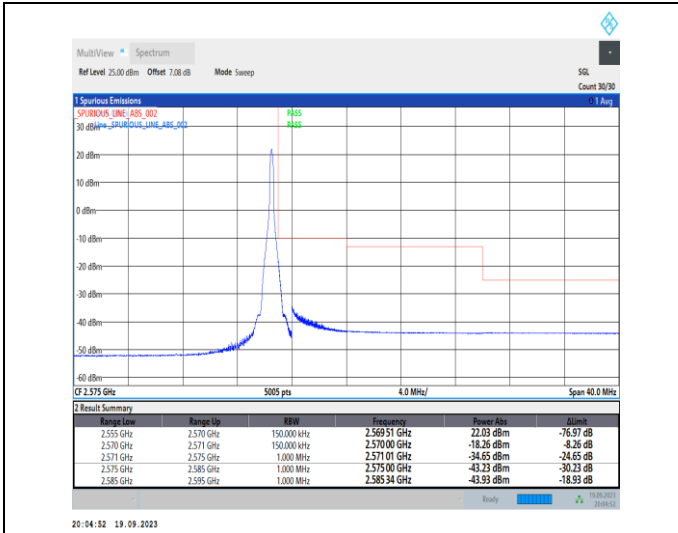
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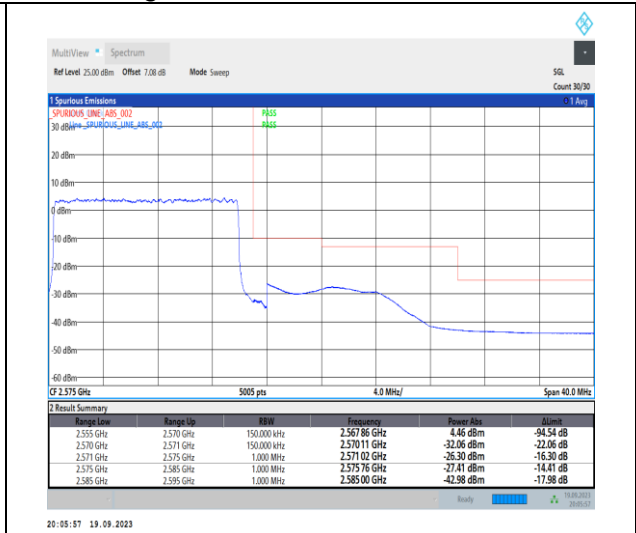


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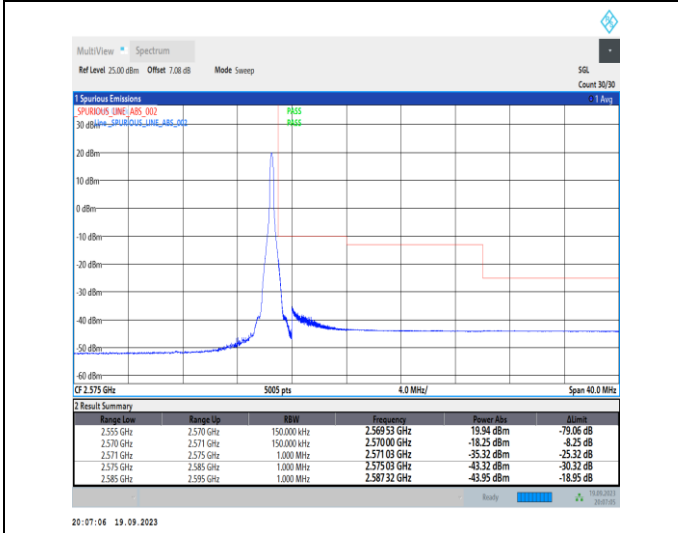
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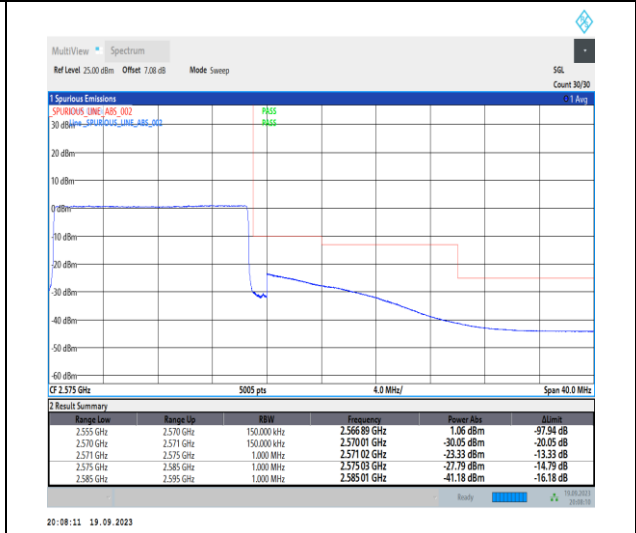
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1-N7-PC3-15-15-H-3-DFT-PI2BPSK-Outer_Full-75@0-Ant31-1--PASS-see graph



1-N7-PC3-15-15-H-5-CP-QPSK-Edge_1RB_Right-1@78-Ant31-1--PASS-see graph



1-N7-PC3-15-15-H-6-CP-QPSK-Outer_Full-79@0-Ant31-1--PASS-see graph

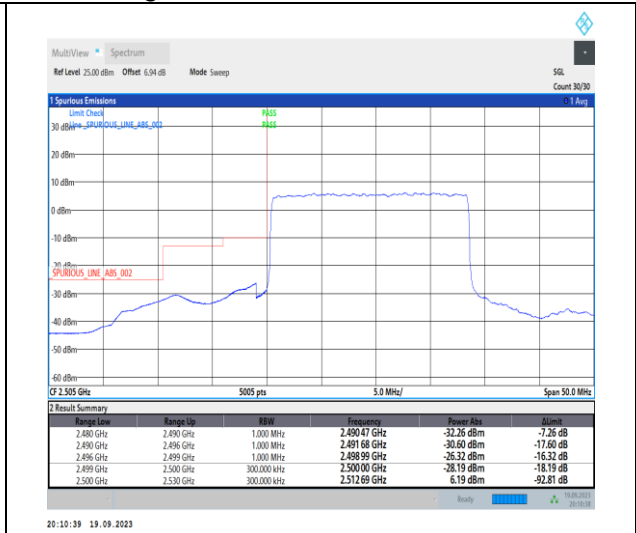
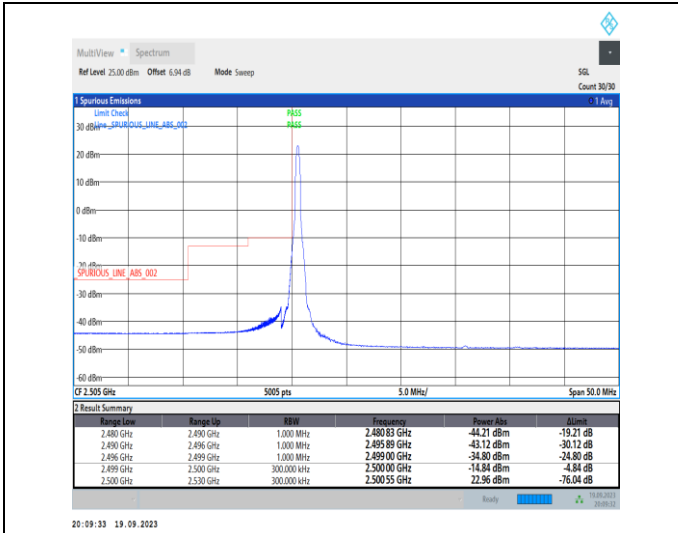


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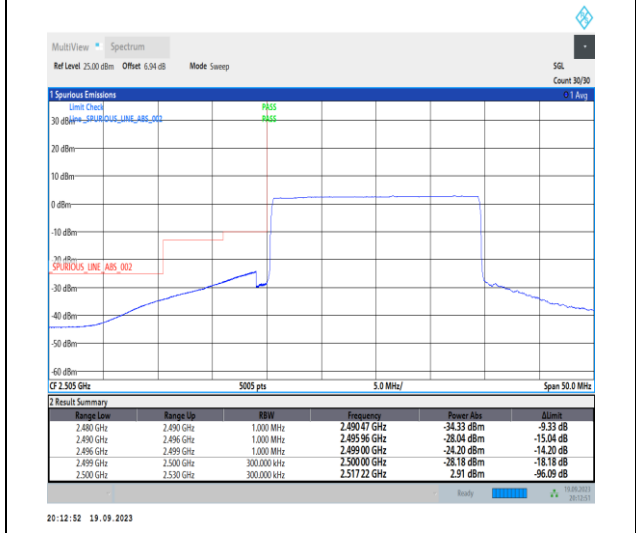
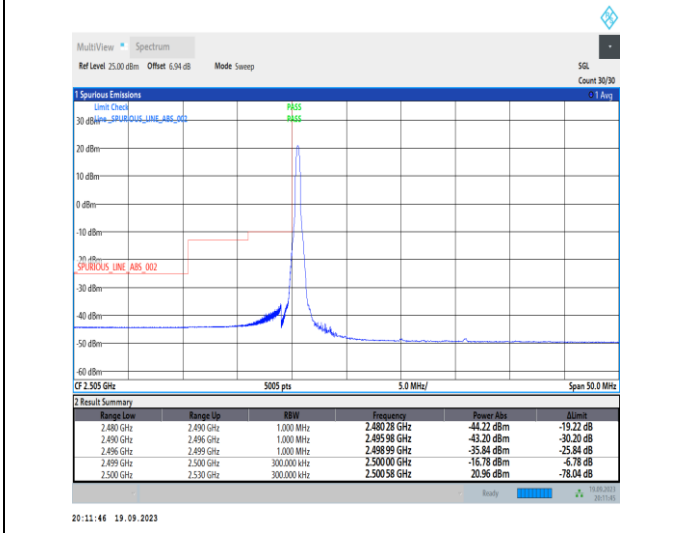
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1-N7-PC3-15-20-L-1-DFT-PI2BPSK-Edge_1RB_Left-1 @0-Ant31-1--PASS-see graph

1-N7-PC3-15-20-L-3-DFT-PI2BPSK-Outer_Full-10 0@0-Ant31-1--PASS-see graph



1-N7-PC3-15-20-L-4-CP-QPSK-Edge_1RB_Left-1 @0-Ant31-1--PASS-see graph

1-N7-PC3-15-20-L-6-CP-QPSK-Outer_Full-106 @0-Ant31-1--PASS-see graph

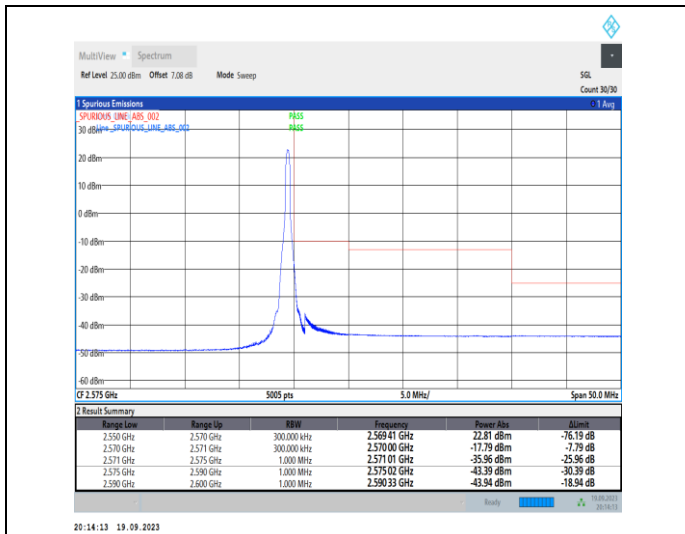


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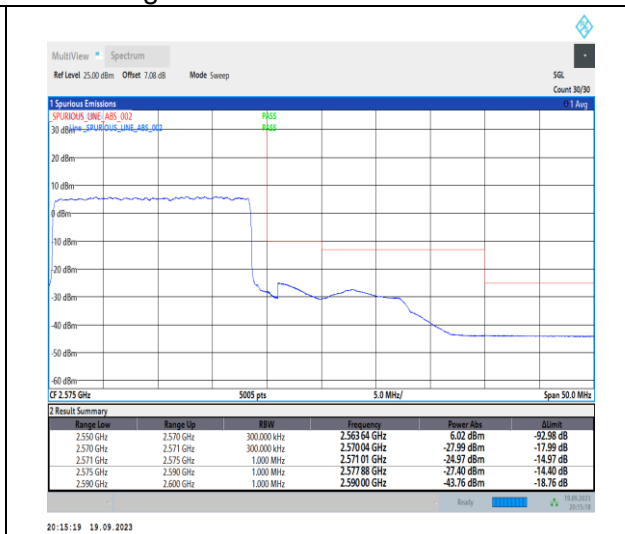
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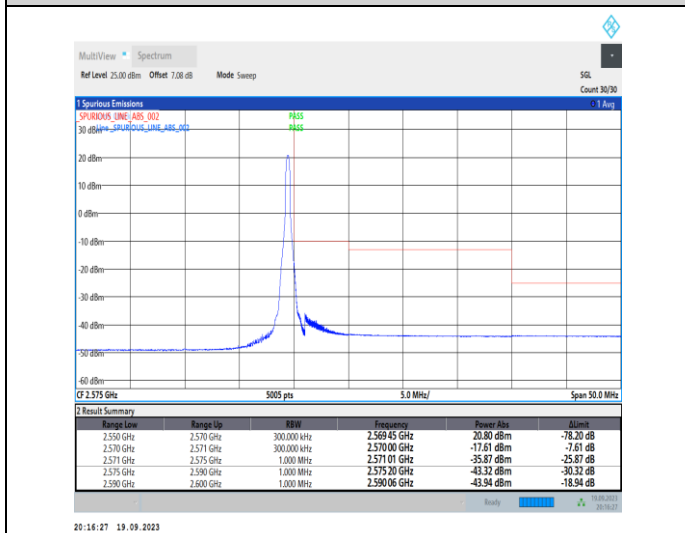
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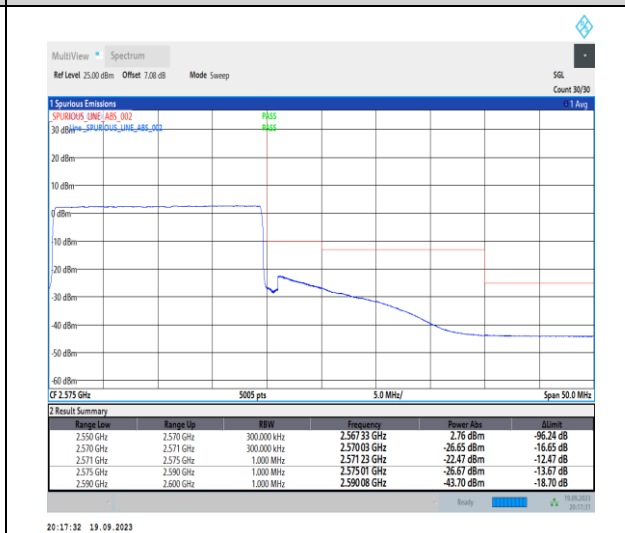
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1-N7-PC3-15-20-H-3-DFT-PI2BPSK-Outer_Full-100@0-Ant31-1--PASS-see graph



1-N7-PC3-15-20-H-5-CP-QPSK-Edge_1RB_Right-1@105-Ant31-1--PASS-see graph



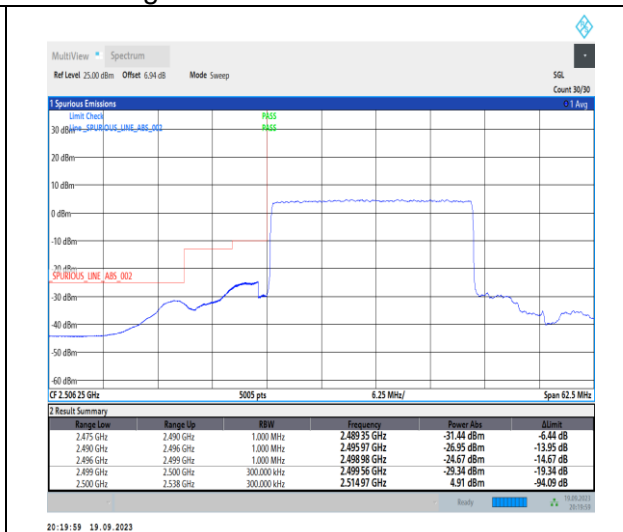
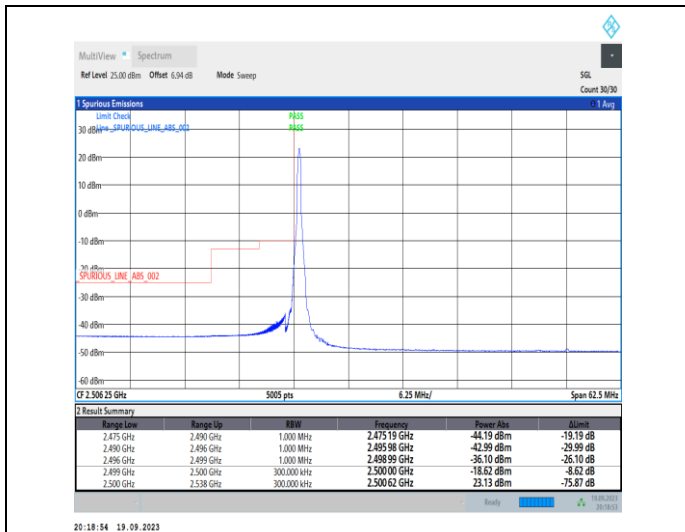
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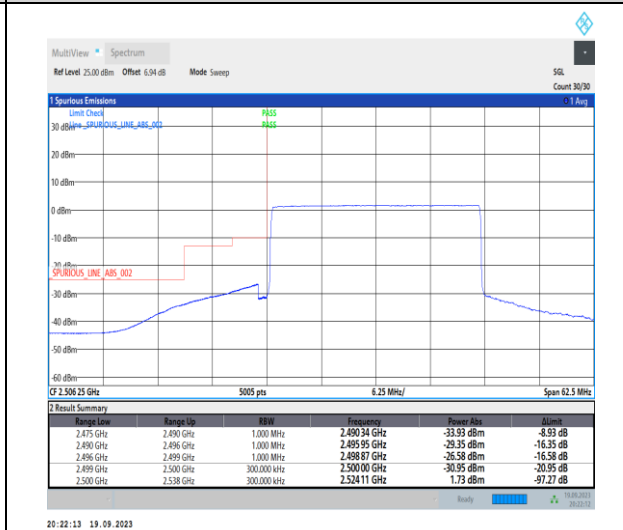
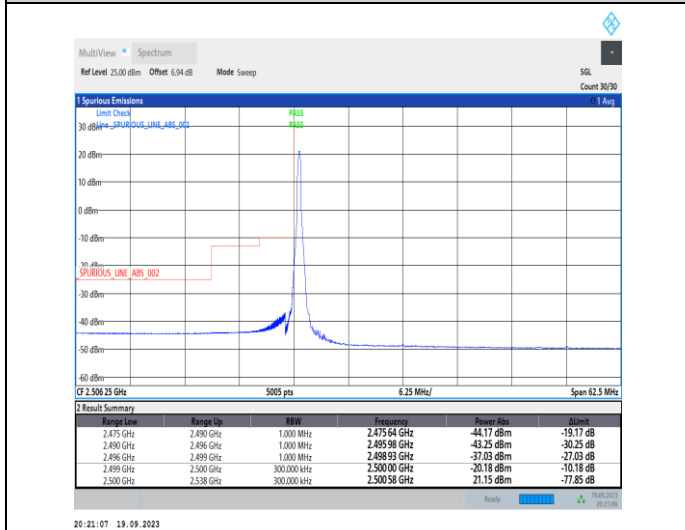
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1-N7-PC3-15-25-L-1-DFT-PI2BPSK-Edge_1RB_Left-1 @0-Ant31-1--PASS-see graph

1-N7-PC3-15-25-L-3-DFT-PI2BPSK-Outer_Full-12 8@0-Ant31-1--PASS-see graph



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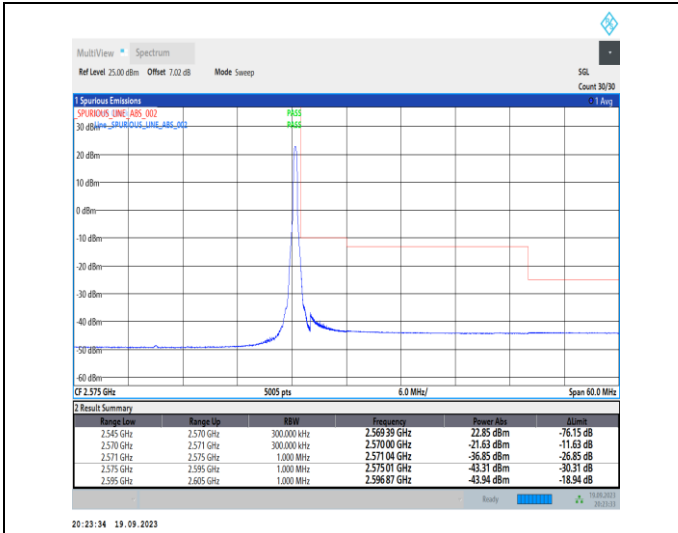
1-N7-PC3-15-25-L-6-CP-QPSK-Outer_Full-133 @0-Ant31-1--PASS-see graph



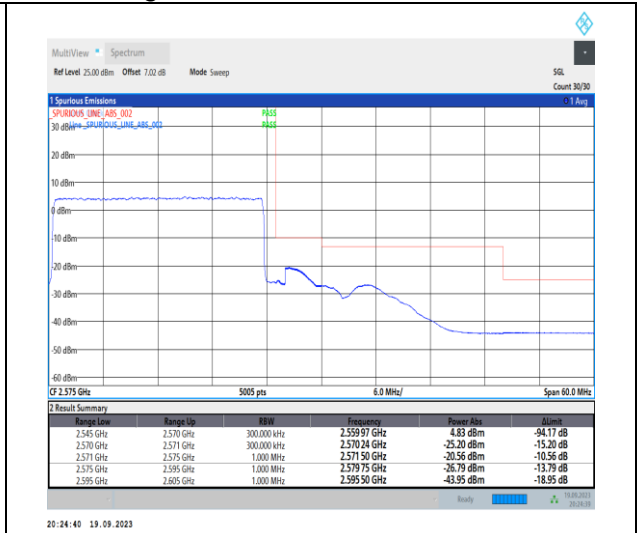
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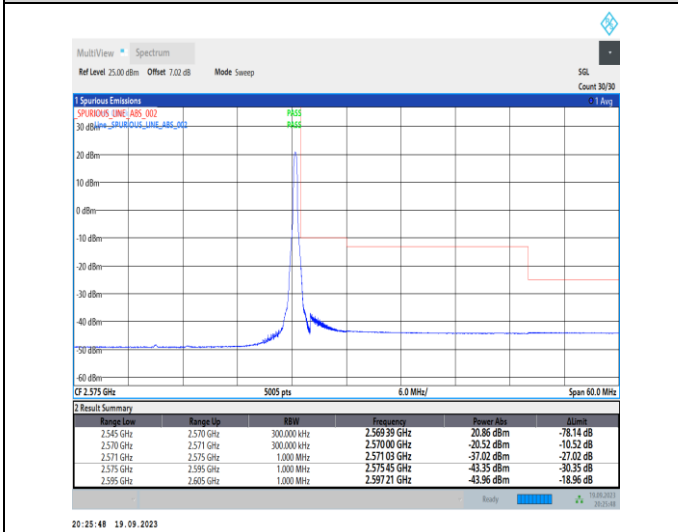
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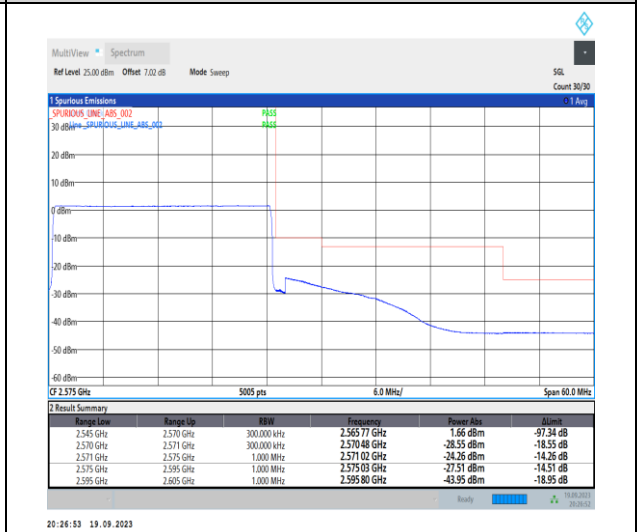
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1-N7-PC3-15-25-H-3-DFT-PI2BPSK-Outer_Full-128@0-Ant31-1--PASS-see graph



1-N7-PC3-15-25-H-5-CP-QPSK-Edge_1RB_Right-1@132-Ant31-1--PASS-see graph



1-N7-PC3-15-25-H-6-CP-QPSK-Outer_Full-133@0-Ant31-1--PASS-see graph

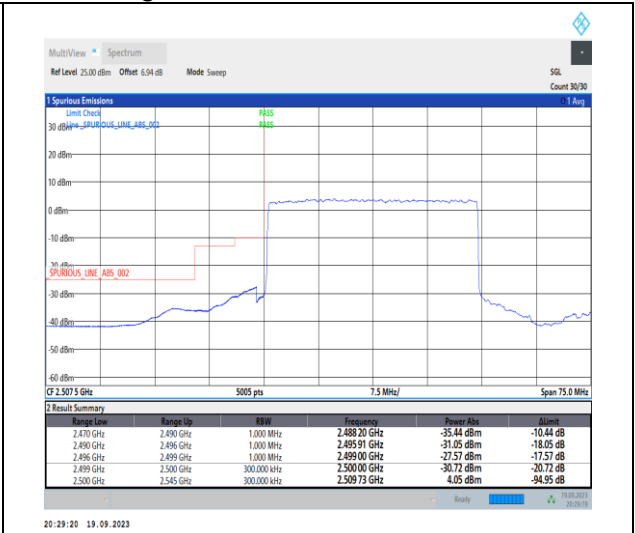
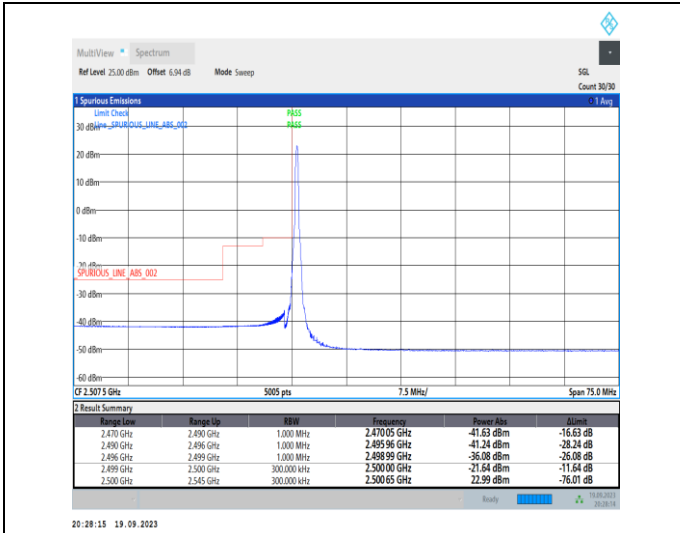


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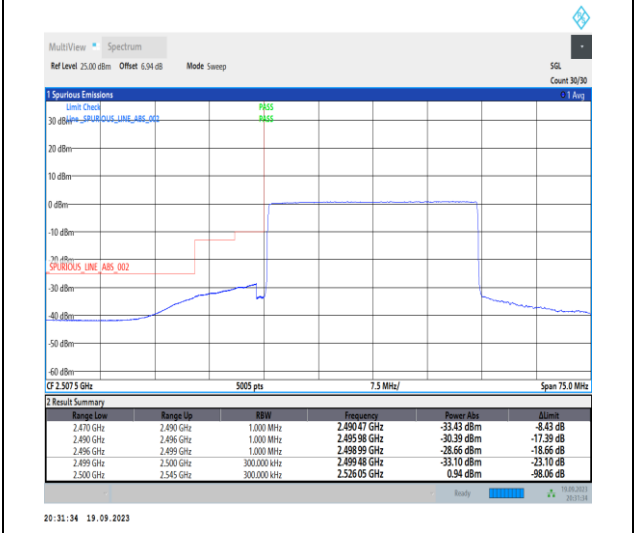
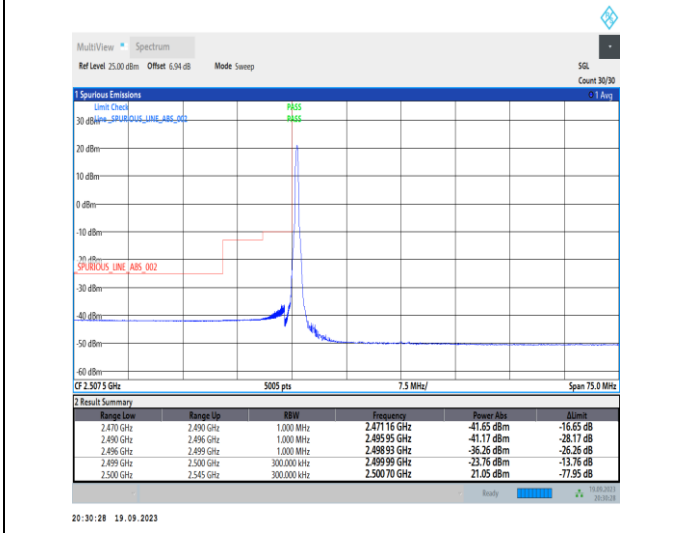
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1-N7-PC3-15-30-L-1-DFT-PI2BPSK-Edge_1RB_Left-1 @0-Ant31-1--PASS-see graph

1-N7-PC3-15-30-L-3-DFT-PI2BPSK-Outer_Full-16 0@0-Ant31-1--PASS-see graph



1-N7-PC3-15-30-L-4-CP-QPSK-Edge_1RB_Left-1 @0-Ant31-1--PASS-see graph

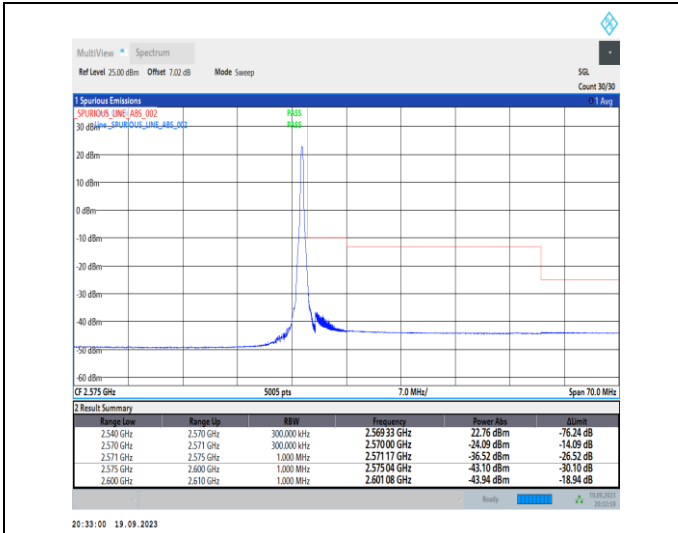
1-N7-PC3-15-30-L-6-CP-QPSK-Outer_Full-160 @0-Ant31-1--PASS-see graph



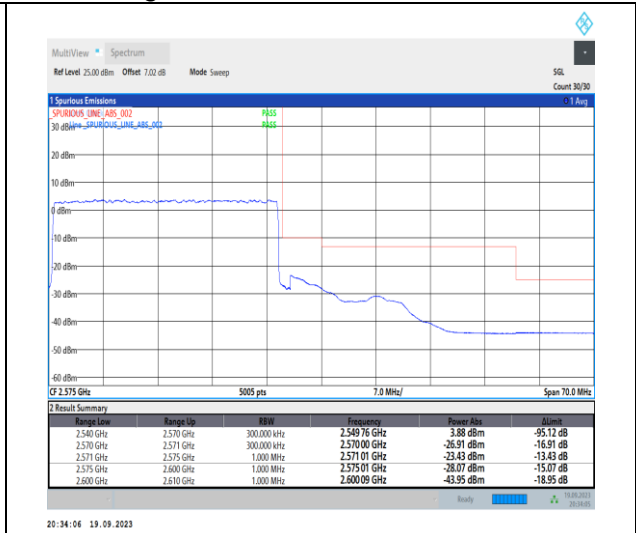
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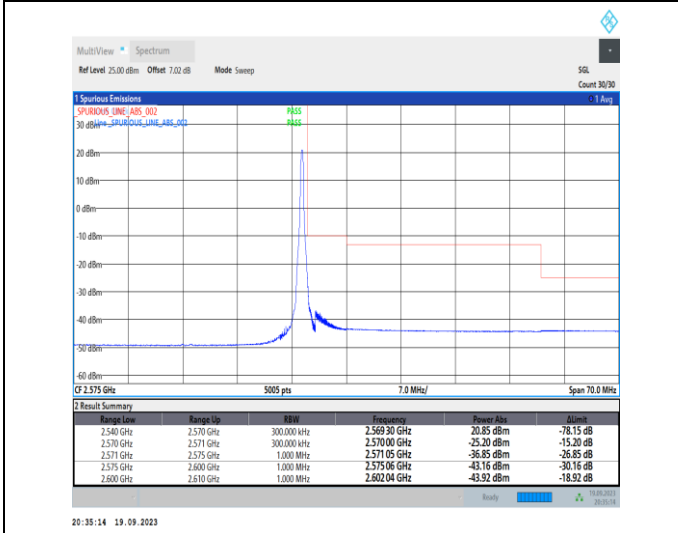
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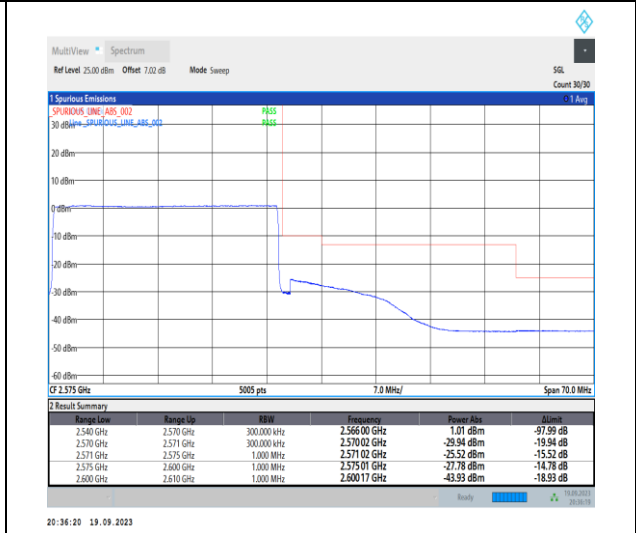
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1-N7-PC3-15-30-H-3-DFT-PI2BPSK-Outer_Full-160@0-Ant31-1--PASS-see graph



1-N7-PC3-15-30-H-5-CP-QPSK-Edge_1RB_Right-1@159-Ant31-1--PASS-see graph



1-N7-PC3-15-30-H-6-CP-QPSK-Outer_Full-160@0-Ant31-1--PASS-see graph

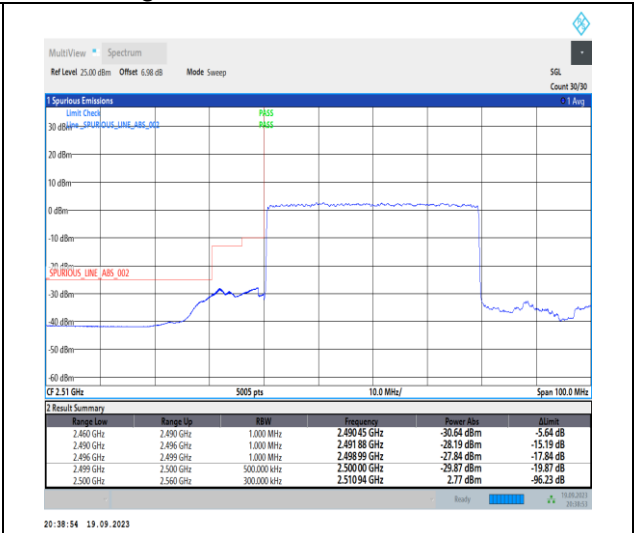
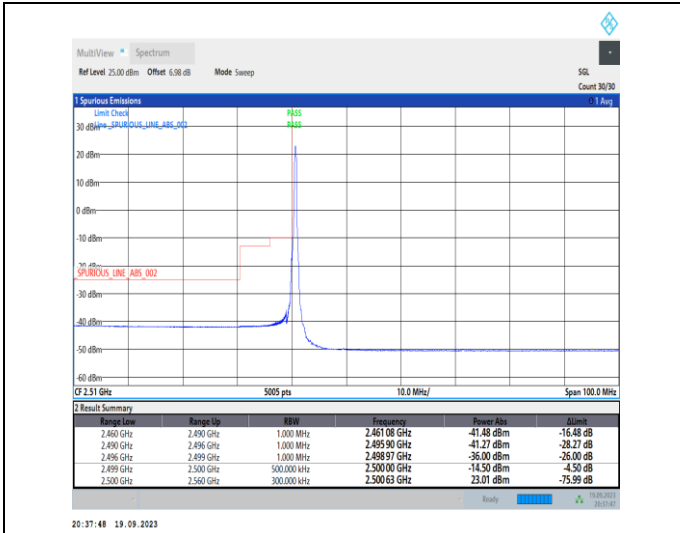


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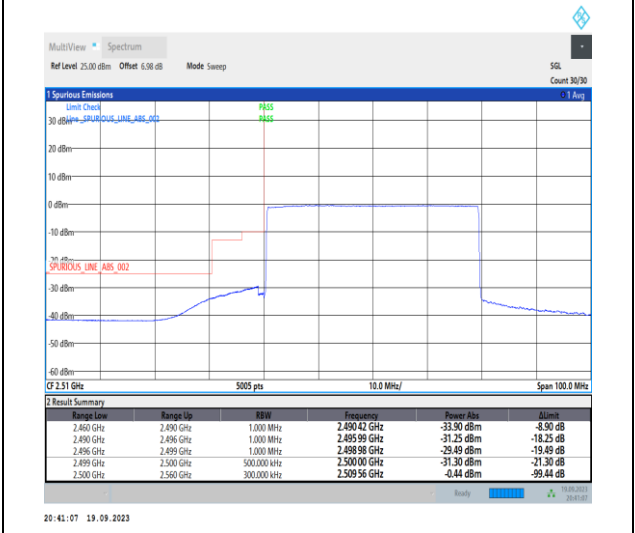
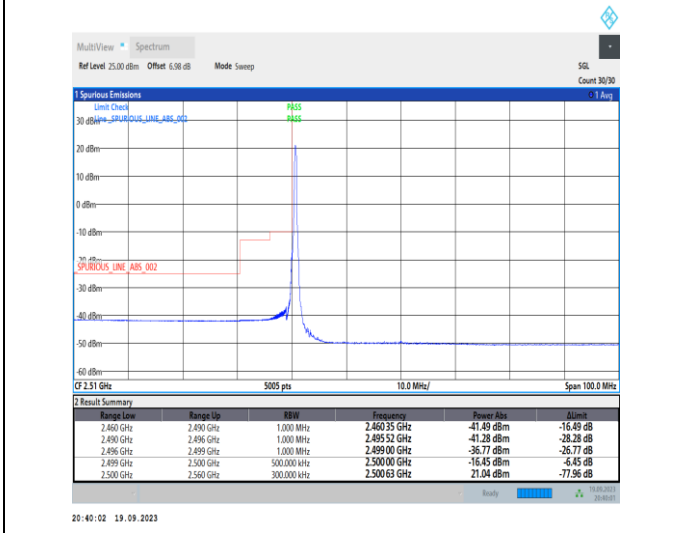
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1-N7-PC3-15-40-L-1-DFT-PI2BPSK-Edge_1RB_Left-1 @0-Ant31-1--PASS-see graph

1-N7-PC3-15-40-L-3-DFT-PI2BPSK-Outer_Full-21 6@0-Ant31-1--PASS-see graph



1-N7-PC3-15-40-L-4-CP-QPSK-Edge_1RB_Left-1 @0-Ant31-1--PASS-see graph

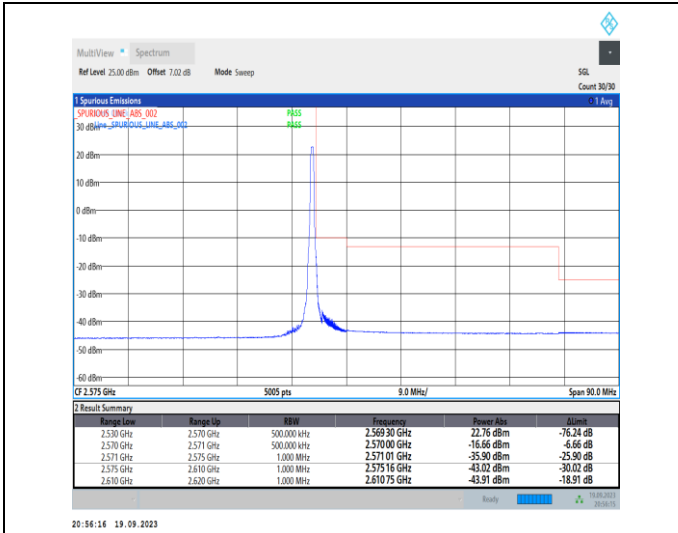
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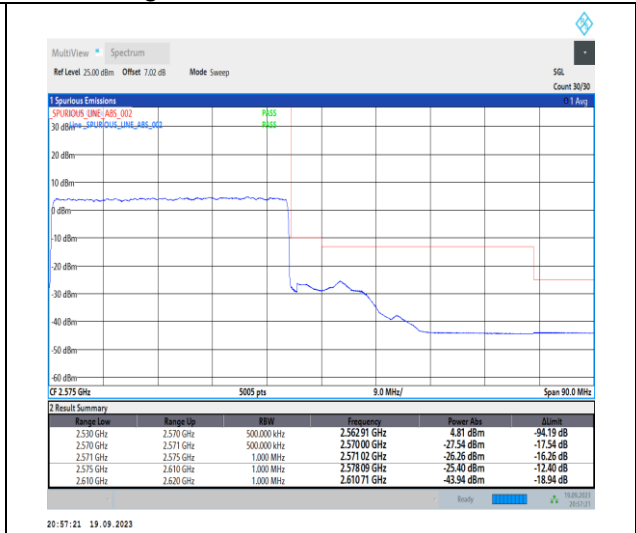
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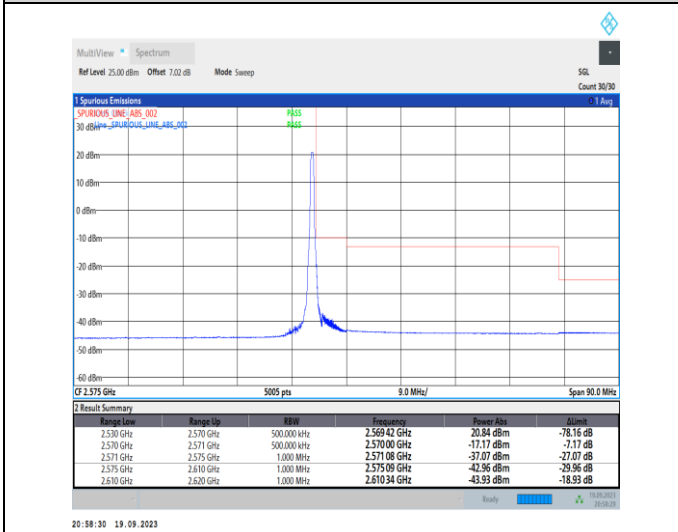
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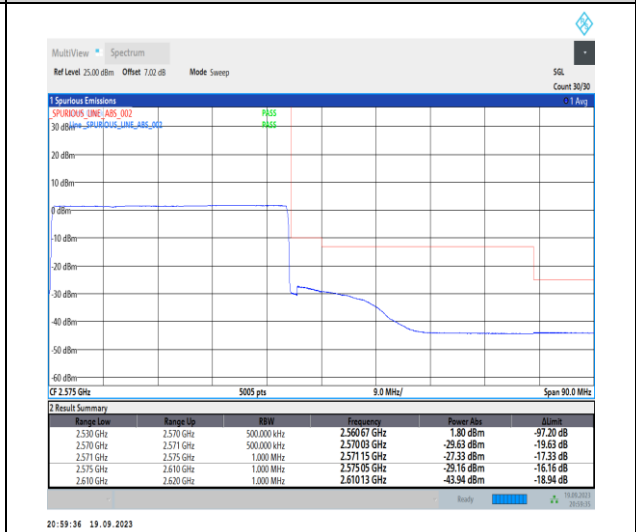
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1-N7-PC3-15-40-H-3-DFT-PI2BPSK-Outer_Full-216@0-Ant31-1--PASS-see graph



1-N7-PC3-15-40-H-5-CP-QPSK-Edge_1RB_Right-1@215-Ant31-1--PASS-see graph



1-N7-PC3-15-40-H-6-CP-QPSK-Outer_Full-216@0-Ant31-1--PASS-see graph



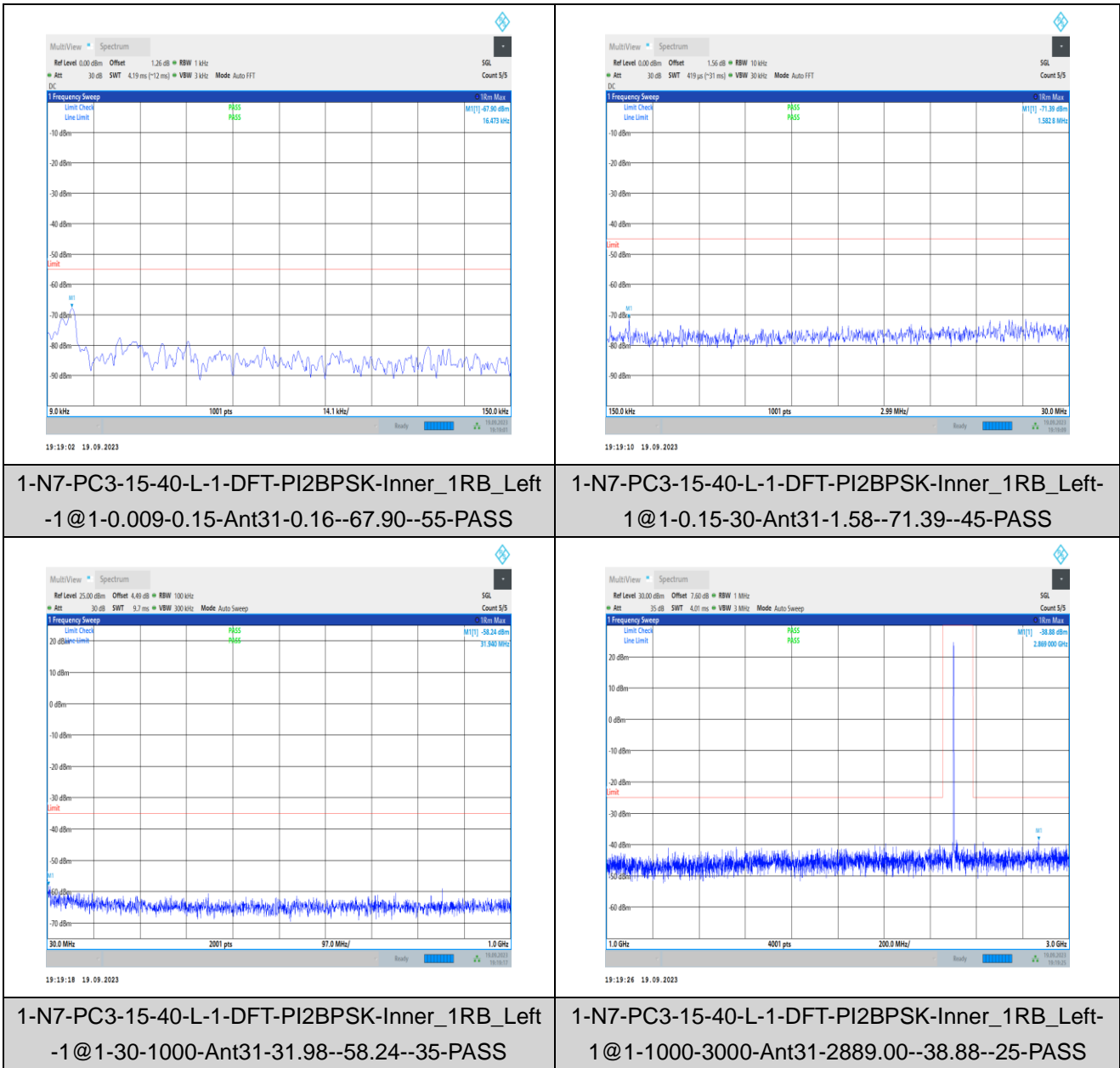
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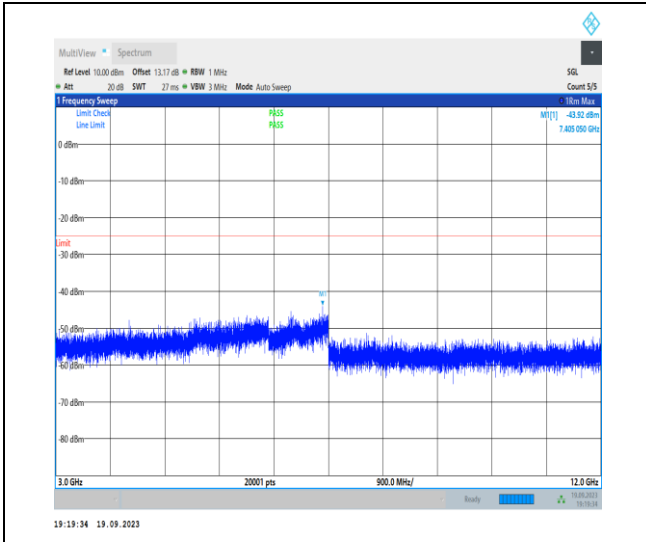
Conducted Spurious Emission for SA

Test Graphs

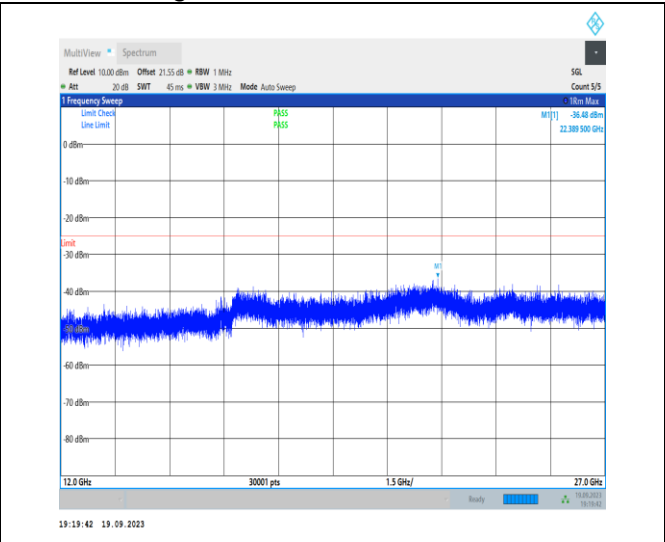


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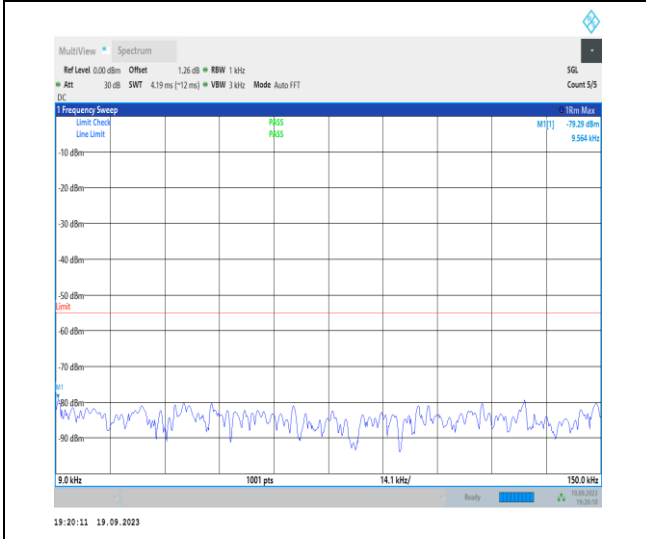
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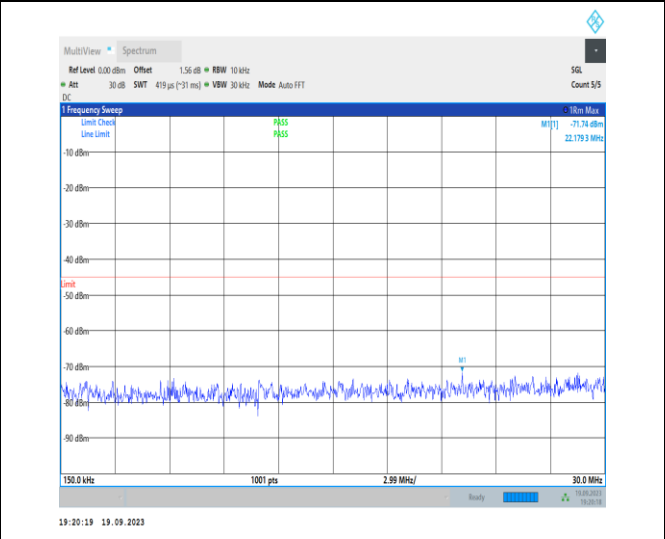
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1-N7-PC3-15-40-L-1-DFT-PI2BPSK-Inner_1RB_Left
-1 @ 1-12000-27000-Ant31-22389.50--36.48--25-PASS



1-N7-PC3-15-40-M-1-DFT-PI2BPSK-Inner_1RB_Left
-1 @ 1-0.009-0.15-Ant31-0.09--79.29--55-PASS

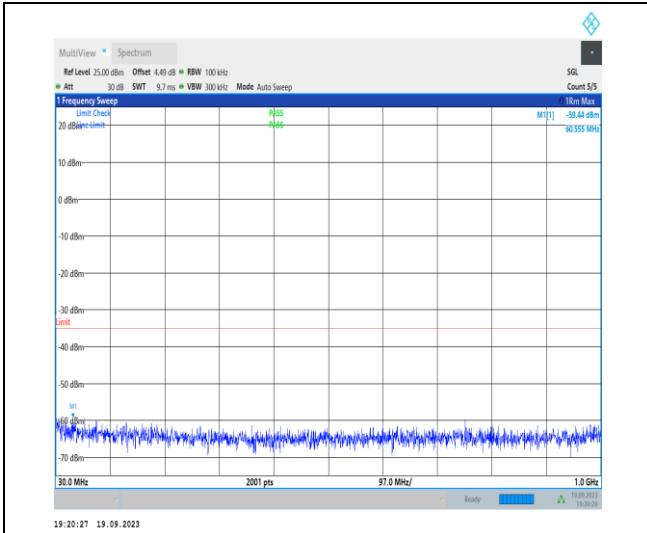


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-1 @ 1-0.15-30-Ant31-22.18--71.74--45-PASS

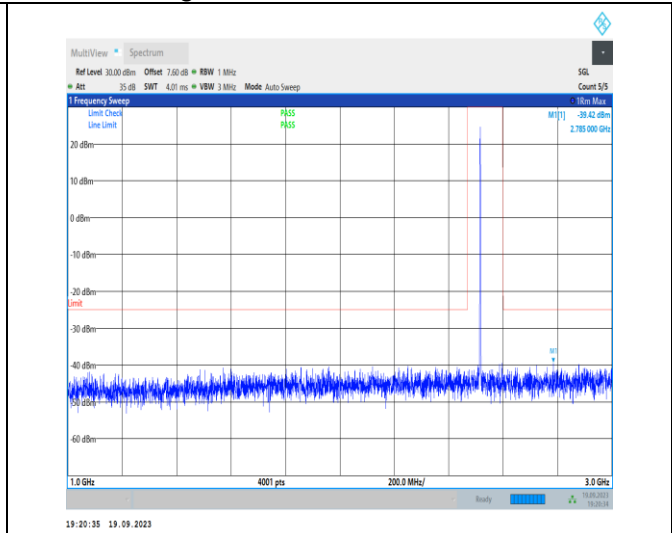


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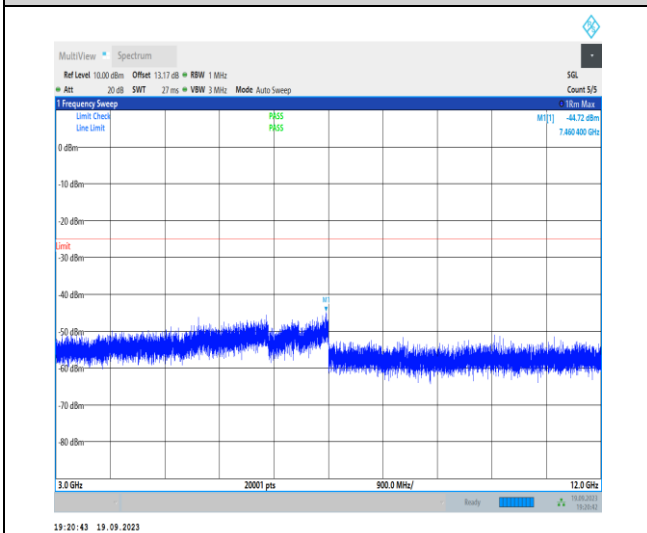
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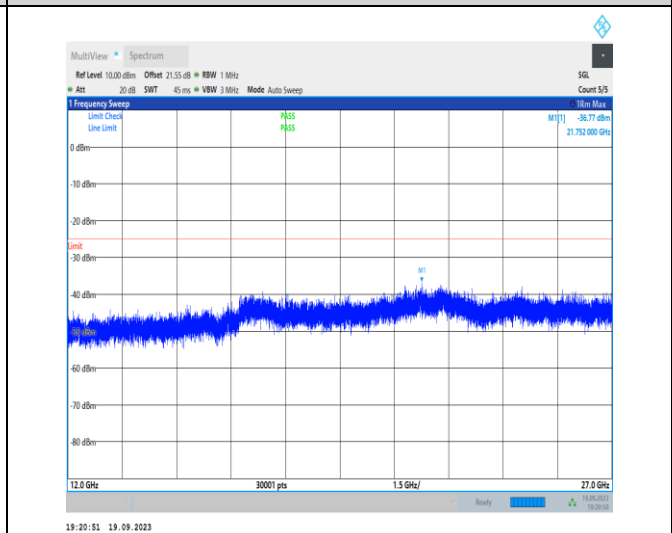
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1-N7-PC3-15-40-M-1-DFT-PI2BPSK-Inner_1RB_Lef t-1 @ 1-3000-12000-Ant317460.40--44.72--25-PASS

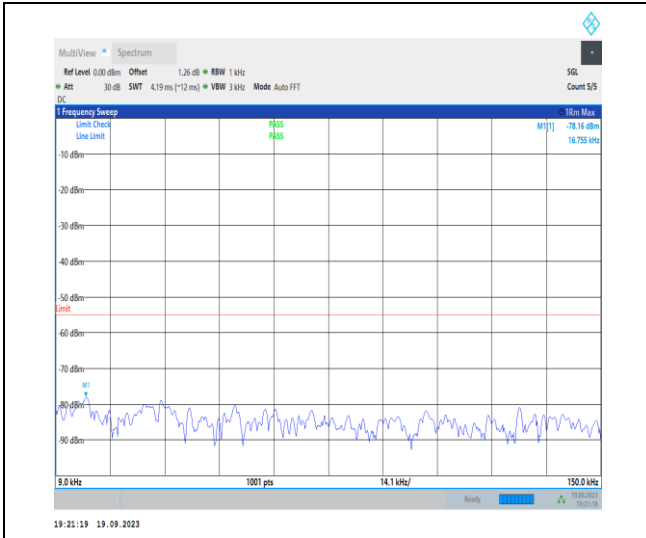


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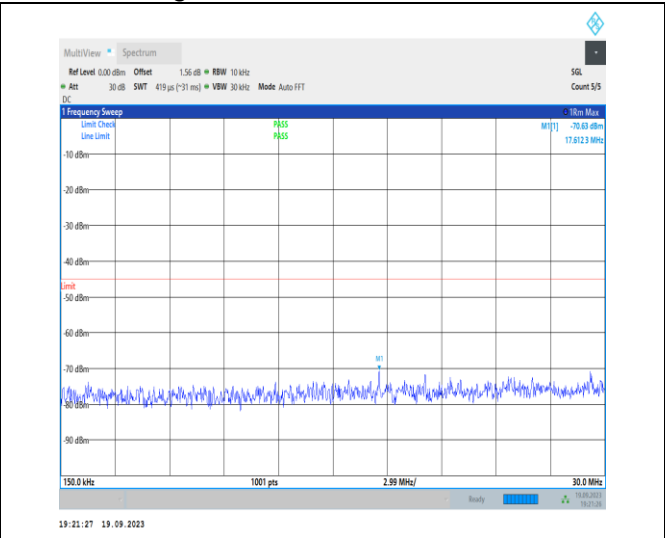


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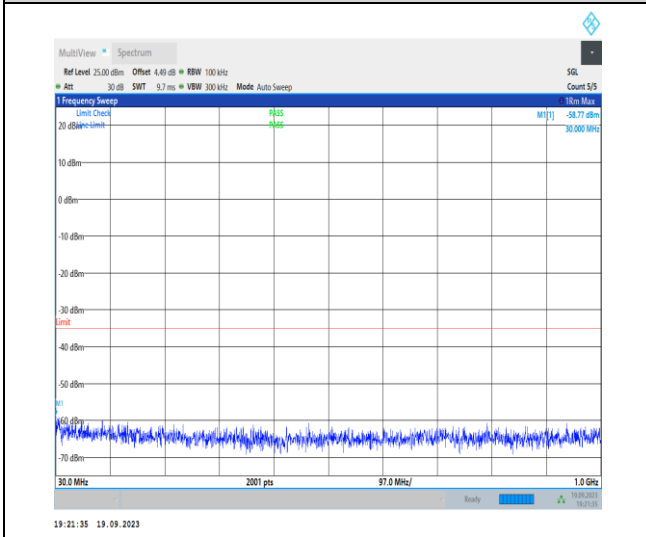
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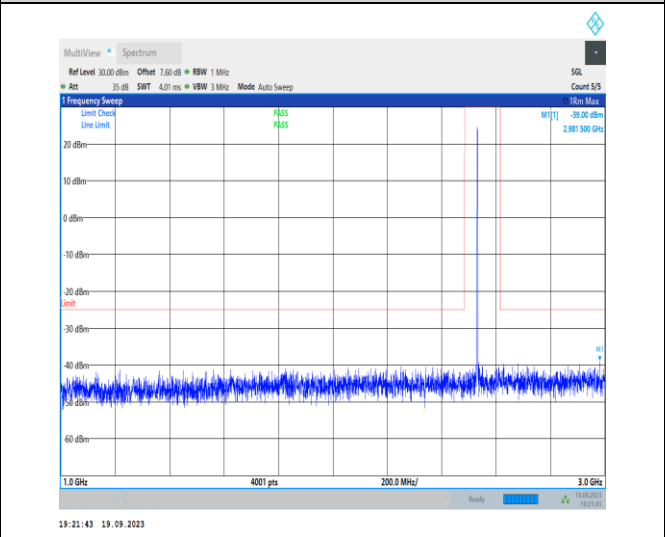
1-N7-PC3-15-40-H-1-DFT-PI2BPSK-Inner_1RB_Lef t-1 @ 1-0.009-0.15-Ant31-0.17--78.16--55-PASS



1-N7-PC3-15-40-H-1-DFT-PI2BPSK-Inner_1RB_Left- 1 @ 1-0.15-30-Ant31-17.61--70.63--45-PASS



1-N7-PC3-15-40-H-1-DFT-PI2BPSK-Inner_1RB_Lef t-1 @ 1-30-1000-Ant31-30.00--58.77--35-PASS

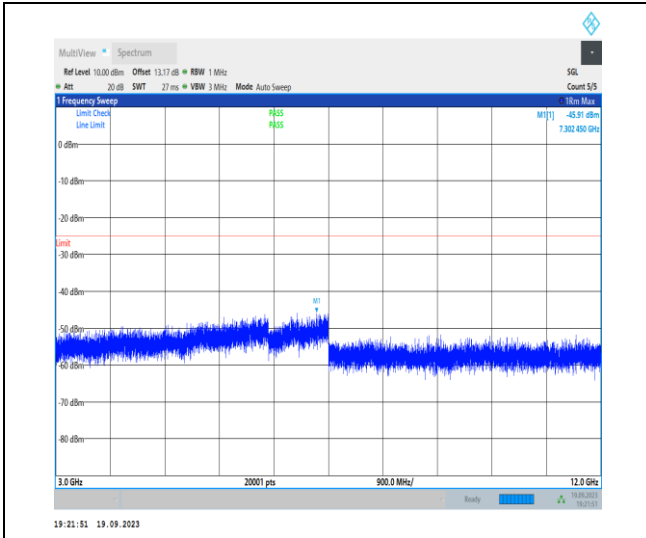


1-N7-PC3-15-40-H-1-DFT-PI2BPSK-Inner_1RB_Left- 1 @ 1-1000-3000-Ant31-2981.50--39.00--25-PASS

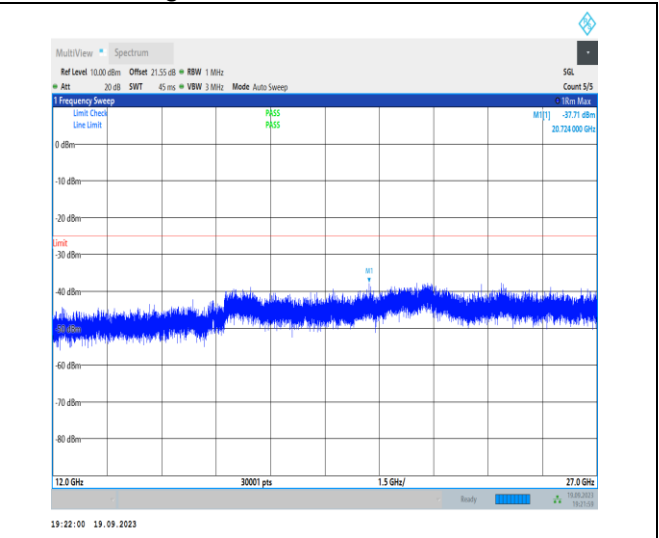


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1-N7-PC3-15-40-H-1-DFT-PI2BPSK-Inner_1RB_Lef-t-1@1-3000-12000-Ant31-7302.45--45.91--25-PASS



1-N7-PC3-15-40-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-27000-Ant31-20724.00--37.71--25-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band7_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5004.1800	40.61	-45.63	31.41	-68.87	-25.00	43.87	Horizontal
2	7506.2700	37.78	-43.13	36.60	-64.00	-25.00	39.00	Horizontal
3	10008.3600	30.55	-39.23	38.20	-65.74	-25.00	40.74	Horizontal
4	12510.4500	26.17	-37.02	38.95	-67.16	-25.00	42.16	Horizontal
5	15012.5400	23.32	-34.67	41.27	-65.34	-25.00	40.34	Horizontal
6	17514.6300	26.07	-34.82	44.62	-59.39	-25.00	34.39	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5004.1800	41.12	-45.63	31.41	-68.36	-25.00	43.36	Vertical
2	7506.2700	37.57	-43.13	36.60	-64.21	-25.00	39.21	Vertical
3	10008.3600	30.44	-39.23	38.20	-65.85	-25.00	40.85	Vertical
4	12510.4500	26.10	-37.02	38.95	-67.23	-25.00	42.23	Vertical
5	15012.5400	22.45	-34.67	41.27	-66.21	-25.00	41.21	Vertical
6	17514.6300	26.85	-34.82	44.62	-58.61	-25.00	33.61	Vertical



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Test Band = SA Band7_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5034.1800	40.98	-45.55	31.48	-68.34	-25.00	43.34	Horizontal
2	7551.2700	38.22	-43.03	36.62	-63.45	-25.00	38.45	Horizontal
3	10068.3600	31.93	-39.16	38.23	-64.25	-25.00	39.25	Horizontal
4	12585.4500	25.06	-37.52	38.98	-68.75	-25.00	43.75	Horizontal
5	15102.5400	24.43	-34.92	41.08	-64.67	-25.00	39.67	Horizontal
6	17619.6300	25.81	-33.39	45.09	-57.75	-25.00	32.75	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5034.1800	40.69	-45.55	31.48	-68.63	-25.00	43.63	Vertical
2	7551.2700	38.23	-43.03	36.62	-63.44	-25.00	38.44	Vertical
3	10068.3600	30.89	-39.16	38.23	-65.29	-25.00	40.29	Vertical
4	12585.4500	25.57	-37.52	38.98	-68.24	-25.00	43.24	Vertical
5	15102.5400	23.62	-34.92	41.08	-65.48	-25.00	40.48	Vertical
6	17619.6300	26.12	-33.39	45.09	-57.44	-25.00	32.44	Vertical



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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Test Band = SA Band7_ TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5064.1800	39.98	-45.47	31.55	-69.19	-25.00	44.19	Horizontal
2	7596.2700	37.63	-42.94	36.64	-63.93	-25.00	38.93	Horizontal
3	10128.3600	30.20	-39.23	38.26	-66.02	-25.00	41.02	Horizontal
4	12660.4500	26.14	-37.05	39.00	-67.17	-25.00	42.17	Horizontal
5	15192.5400	23.65	-33.99	40.89	-64.71	-25.00	39.71	Horizontal
6	17724.6300	26.50	-34.18	45.56	-57.38	-25.00	32.38	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5064.1800	40.31	-45.47	31.55	-68.86	-25.00	43.86	Vertical
2	7596.2700	37.25	-42.94	36.64	-64.31	-25.00	39.31	Vertical
3	10128.3600	30.00	-39.23	38.26	-66.22	-25.00	41.22	Vertical
4	12660.4500	27.00	-37.05	39.00	-66.31	-25.00	41.31	Vertical
5	15192.5400	23.97	-33.99	40.89	-64.39	-25.00	39.39	Vertical
6	17724.6300	26.52	-34.18	45.56	-57.36	-25.00	32.36	Vertical



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Test Band = NSA 2A-N7A_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5004.1800	40.70	-45.63	31.41	-68.78	-25.00	43.78	Horizontal
2	7506.2700	37.36	-43.13	36.60	-64.42	-25.00	39.42	Horizontal
3	10008.3600	31.81	-39.23	38.20	-64.48	-25.00	39.48	Horizontal
4	12510.4500	24.58	-37.02	38.95	-68.75	-25.00	43.75	Horizontal
5	15012.5400	22.62	-34.67	41.27	-66.04	-25.00	41.04	Horizontal
6	17514.6300	25.83	-34.82	44.62	-59.63	-25.00	34.63	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5004.1800	40.58	-45.63	31.41	-68.90	-25.00	43.90	Vertical
2	7506.2700	37.61	-43.13	36.60	-64.17	-25.00	39.17	Vertical
3	10008.3600	30.84	-39.23	38.20	-65.45	-25.00	40.45	Vertical
4	12510.4500	24.57	-37.02	38.95	-68.76	-25.00	43.76	Vertical
5	15012.5400	22.57	-34.67	41.27	-66.09	-25.00	41.09	Vertical
6	17514.6300	26.19	-34.82	44.62	-59.27	-25.00	34.27	Vertical



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Test Band = NSA 2A-N7A_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5034.1800	40.17	-45.55	31.48	-69.15	-25.00	44.15	Horizontal
2	7551.2700	37.72	-43.03	36.62	-63.95	-25.00	38.95	Horizontal
3	10068.3600	31.28	-39.16	38.23	-64.90	-25.00	39.90	Horizontal
4	12585.4500	24.85	-37.52	38.98	-68.96	-25.00	43.96	Horizontal
5	15102.5400	23.89	-34.92	41.08	-65.21	-25.00	40.21	Horizontal
6	17619.6300	24.77	-33.39	45.09	-58.79	-25.00	33.79	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5034.1800	40.47	-45.55	31.48	-68.85	-25.00	43.85	Vertical
2	7551.2700	38.02	-43.03	36.62	-63.65	-25.00	38.65	Vertical
3	10068.3600	30.79	-39.16	38.23	-65.39	-25.00	40.39	Vertical
4	12585.4500	25.86	-37.52	38.98	-67.95	-25.00	42.95	Vertical
5	15102.5400	23.86	-34.92	41.08	-65.24	-25.00	40.24	Vertical
6	17619.6300	25.64	-33.39	45.09	-57.92	-25.00	32.92	Vertical



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Test Band = NSA 2A-N7A_ TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5064.1800	40.56	-45.47	31.55	-68.61	-25.00	43.61	Horizontal
2	7596.2700	38.17	-42.94	36.64	-63.39	-25.00	38.39	Horizontal
3	10128.3600	30.48	-39.23	38.26	-65.74	-25.00	40.74	Horizontal
4	12660.4500	26.31	-37.05	39.00	-67.00	-25.00	42.00	Horizontal
5	15192.5400	23.90	-33.99	40.89	-64.46	-25.00	39.46	Horizontal
6	17724.6300	26.68	-34.18	45.56	-57.20	-25.00	32.20	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5064.1800	40.03	-45.47	31.55	-69.14	-25.00	44.14	Vertical
2	7596.2700	37.41	-42.94	36.64	-64.15	-25.00	39.15	Vertical
3	10128.3600	29.54	-39.23	38.26	-66.68	-25.00	41.68	Vertical
4	12660.4500	26.54	-37.05	39.00	-66.77	-25.00	41.77	Vertical
5	15192.5400	24.36	-33.99	40.89	-64.00	-25.00	39.00	Vertical
6	17724.6300	27.30	-34.18	45.56	-56.58	-25.00	31.58	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
N7	15	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	-3.400000	-0.001341	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	-5.400000	-0.002130	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	-1.400000	-0.000552	PASS
N7	15	40	CP-QPSK	M	Outer_Full	VH	NT	-0.900000	-0.000355	PASS
N7	15	40	CP-QPSK	M	Outer_Full	VN	NT	-3.200000	-0.001262	PASS
N7	15	40	CP-QPSK	M	Outer_Full	VL	NT	-2.900000	-0.001144	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	2.100000	0.000828	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	-1.400000	-0.000552	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	-4.000000	-0.001578	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	0	-2.300000	-0.000907	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	10	-3.800000	-0.001499	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	20	-5.600000	-0.002209	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	30	-4.400000	-0.001736	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	40	0.600000	0.000237	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	50	-2.900000	-0.001144	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	-30	-1.800000	-0.000710	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	-20	-4.400000	-0.001736	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	-10	-2.600000	-0.001026	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	0	-5.800000	-0.002288	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	10	0.000000	0.000000	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	20	0.100000	0.000039	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	30	-0.700000	-0.000276	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	40	-0.200000	-0.000079	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	50	-3.700000	-0.001460	PASS

---End of Attachment---



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