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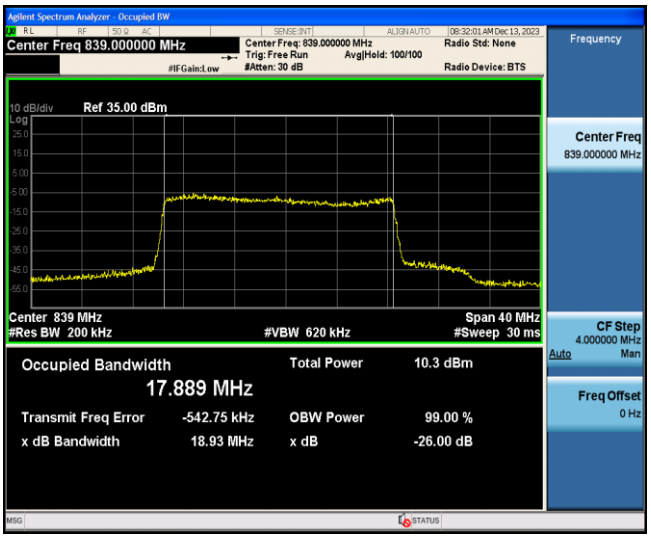

1-N5-PC3-15-20-H-3-DFT-16QAM-Outer_Full-100@0-Ant0-17.889-18.93-≤20-PASS

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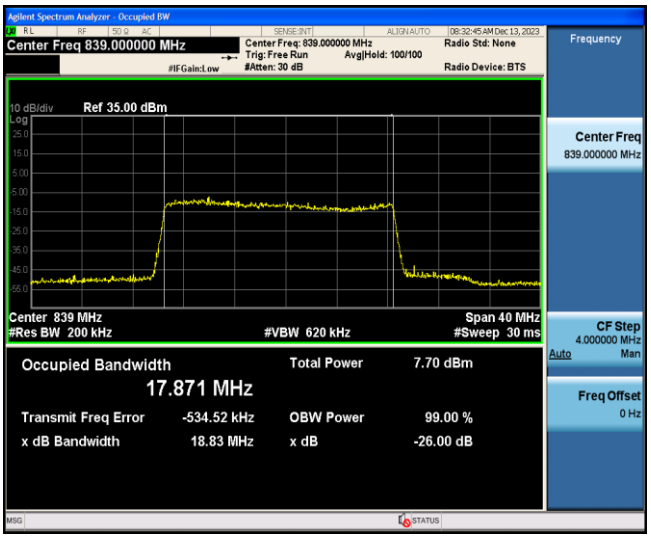

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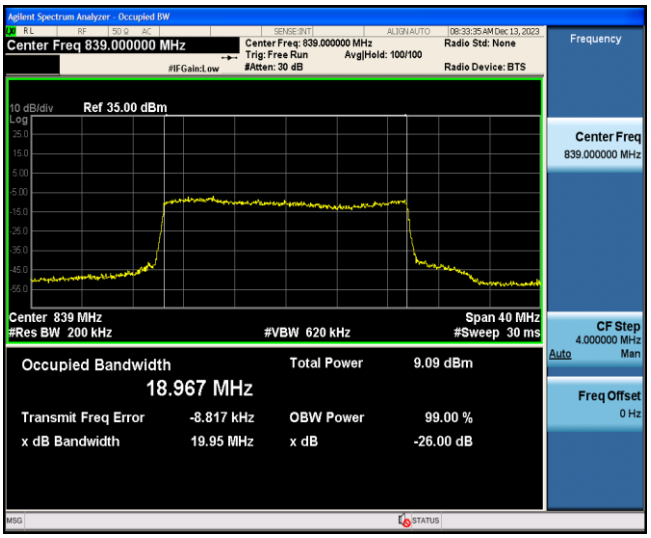

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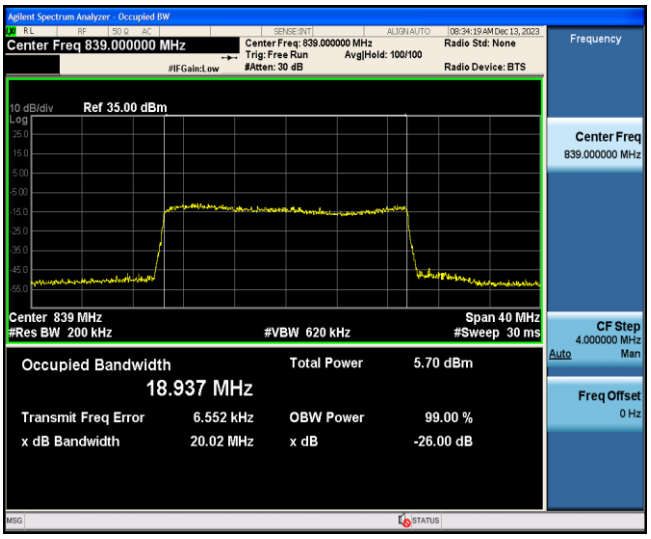

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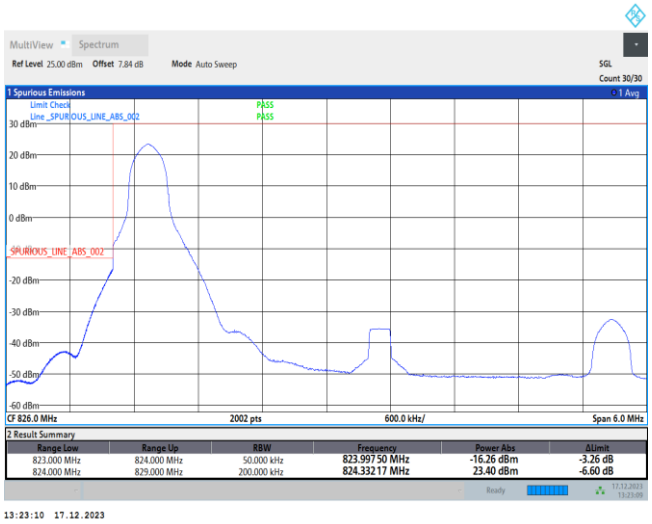
Band Edge for SA

Test Graphs



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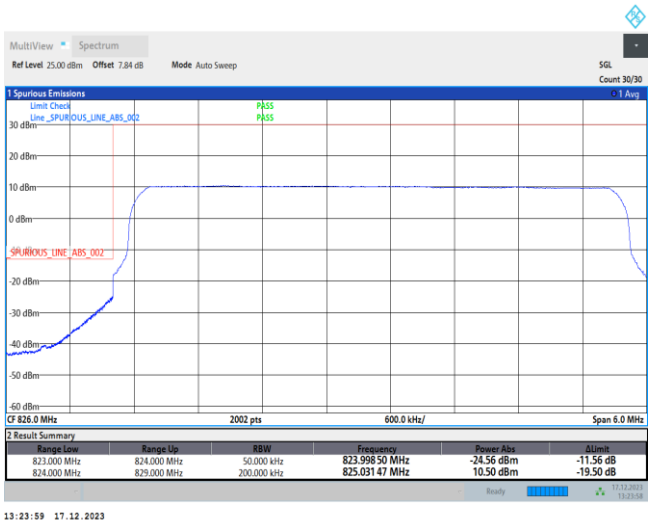

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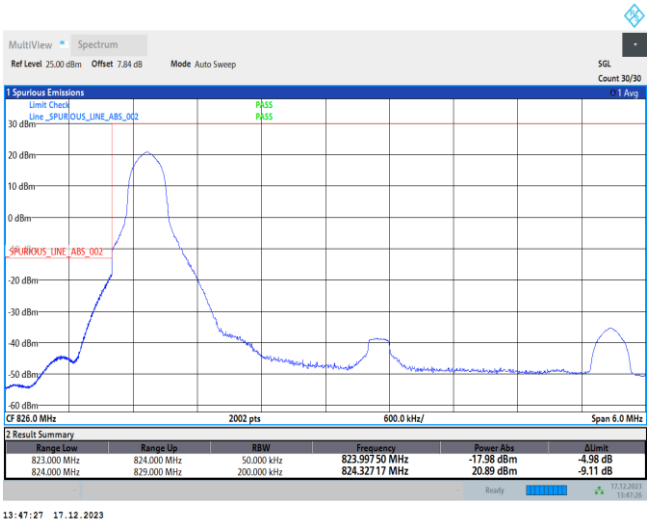

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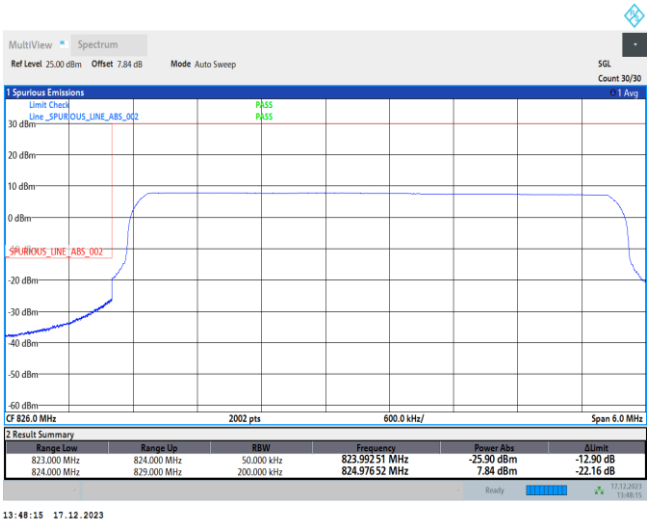

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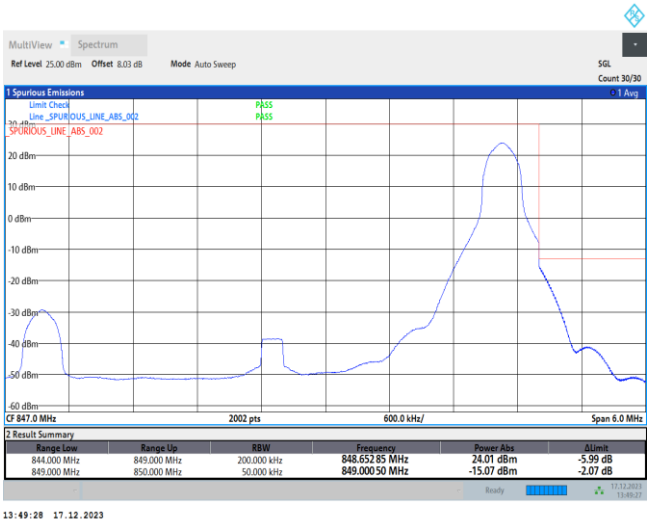

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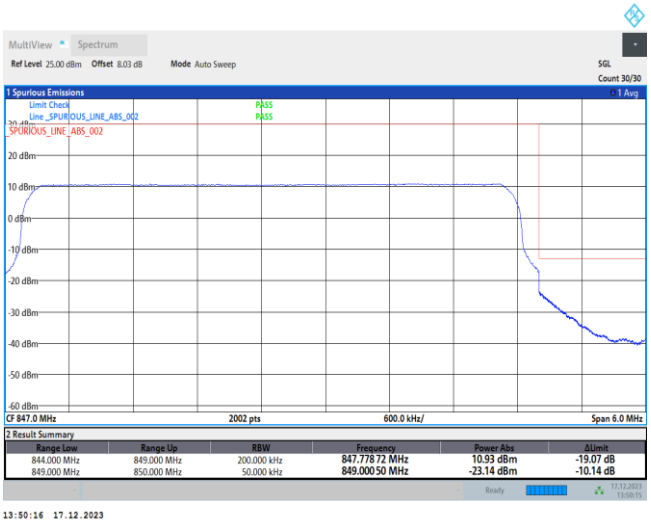

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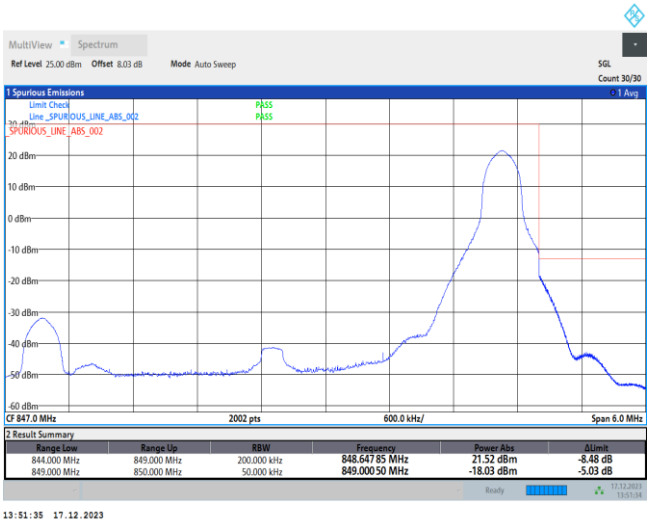

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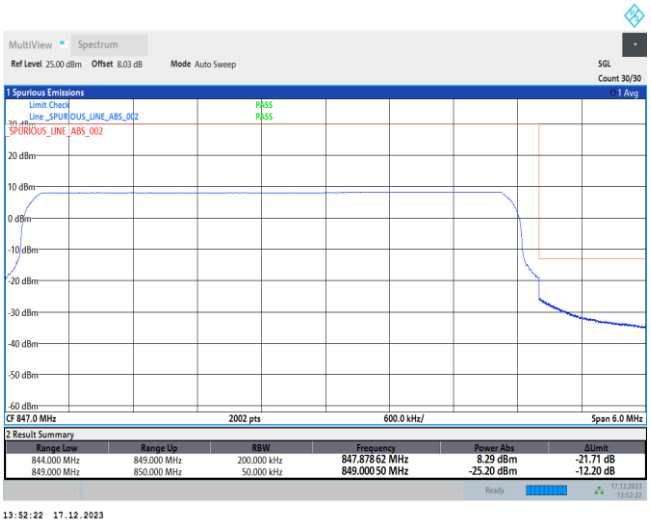

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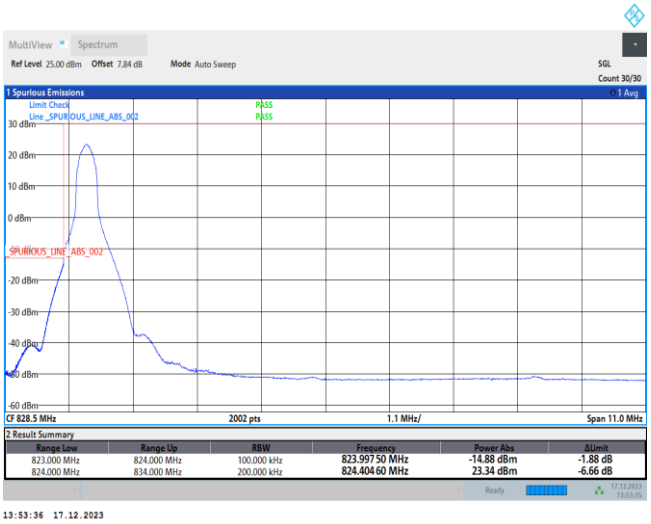

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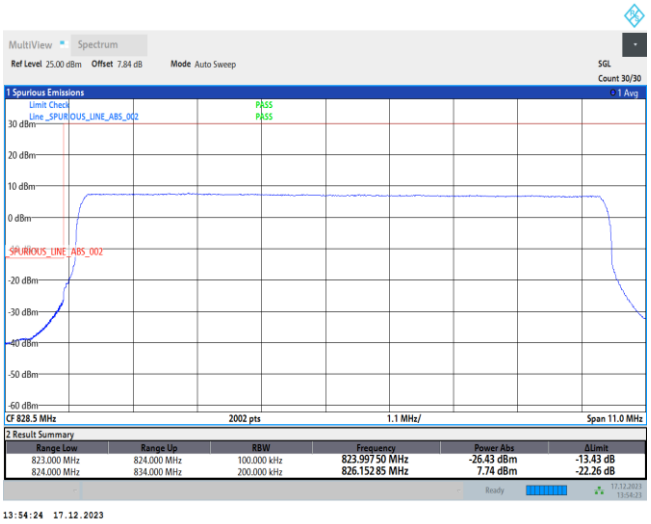

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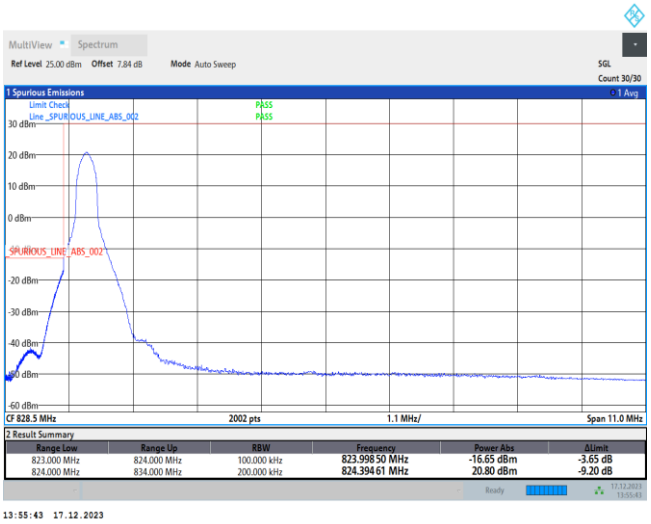

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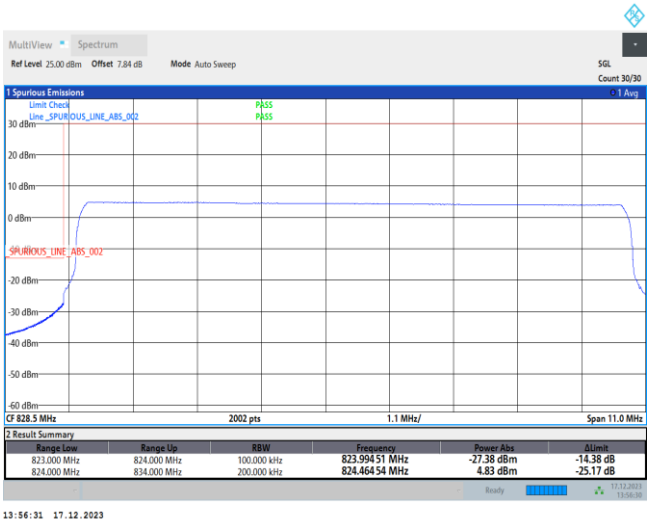

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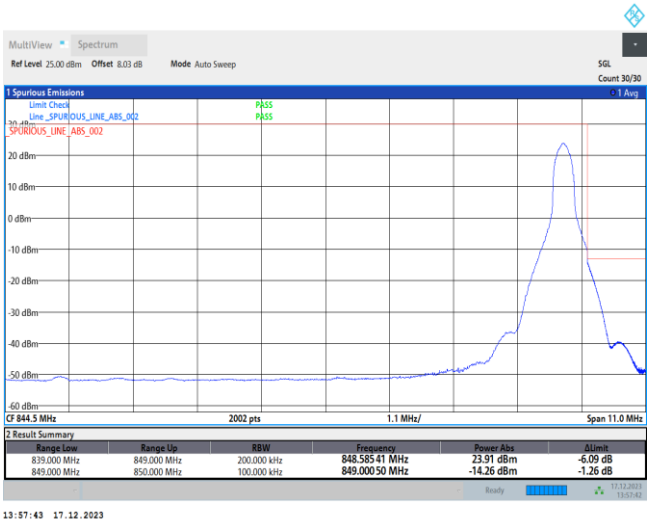

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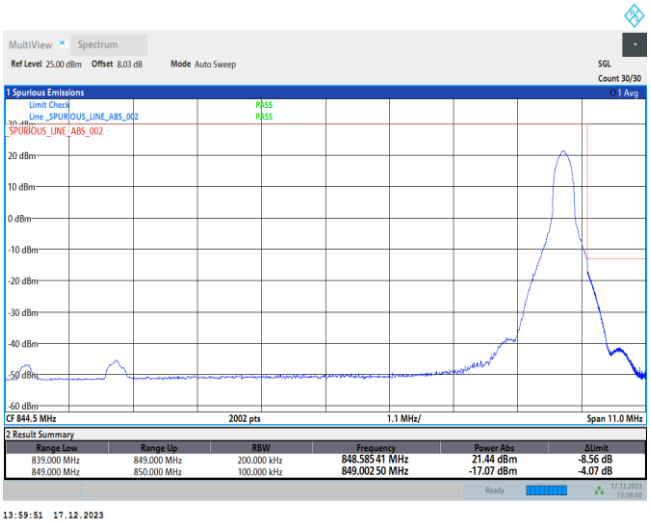

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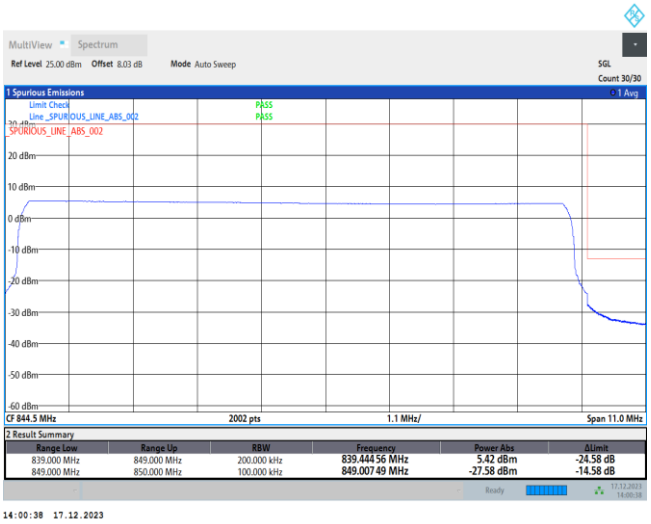

1-N5-PC3-15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant0-1-seegraph-PASS-see graph

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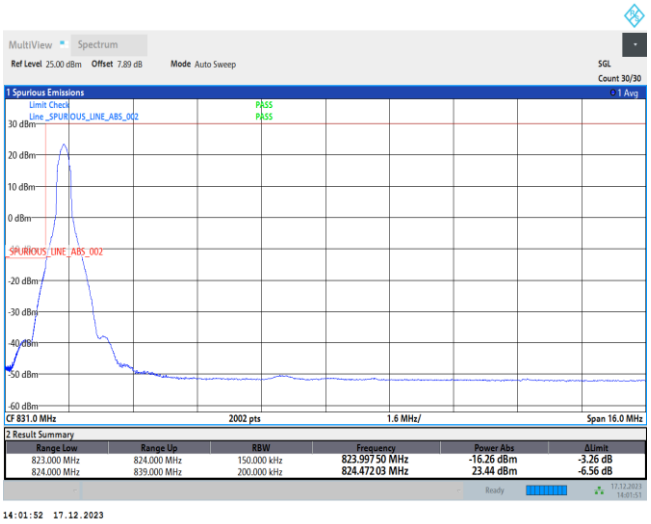

1-N5-PC3-15-15-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant0-1-seegraph-PASS-see graph

1-N5-PC3-15-15-L-3-DFT-PI2BPSK-Outer_Full-75@0-Ant0-1-seegraph-PASS-see graph

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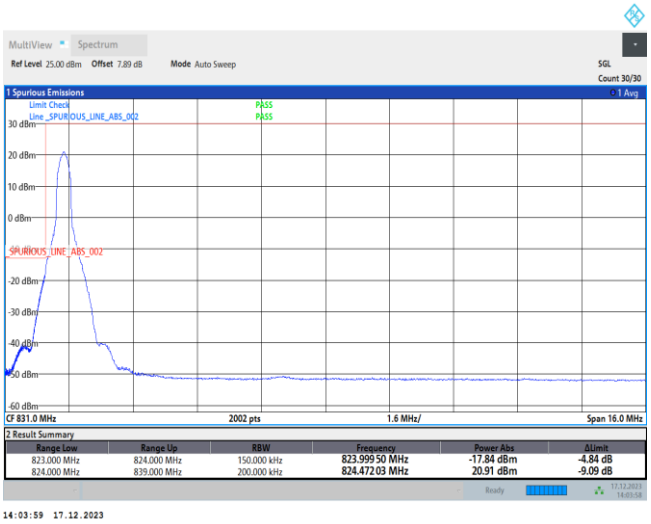

1-N5-PC3-15-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1-seegraph-PASS-see graph

1-N5-PC3-15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant0-1-seegraph-PASS-see graph

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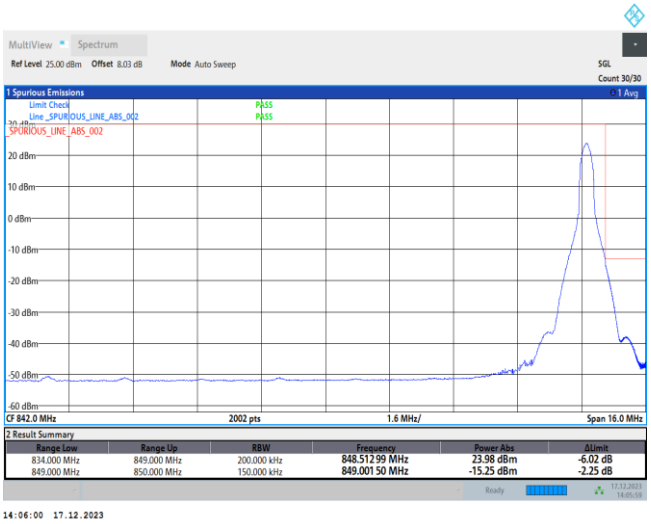

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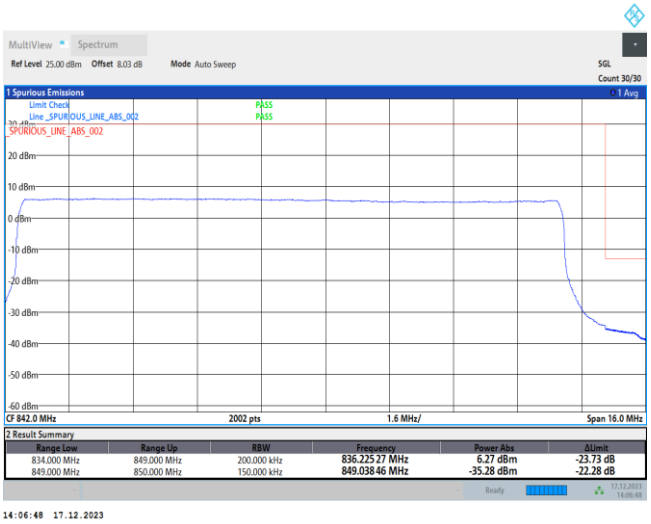

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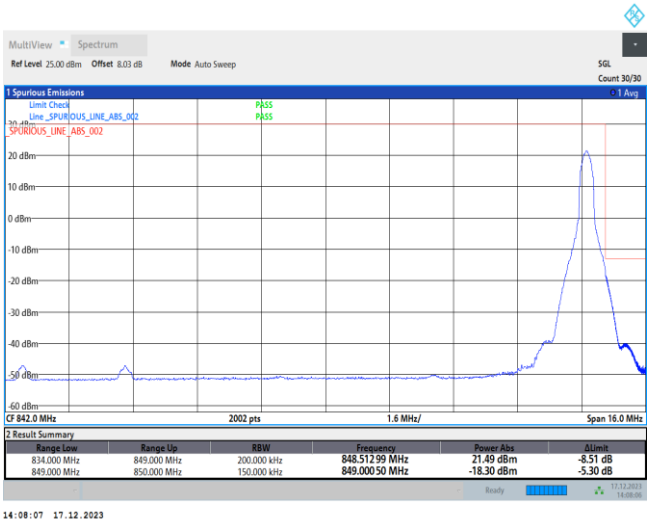

1-N5-PC3-15-15-H-5-CP-QPSK-Edge_1RB_Right-1@78-Ant0-1-seegraph-PASS-see graph

1-N5-PC3-15-15-H-6-CP-QPSK-Outer_Full-79@0-Ant0-1-seegraph-PASS-see graph

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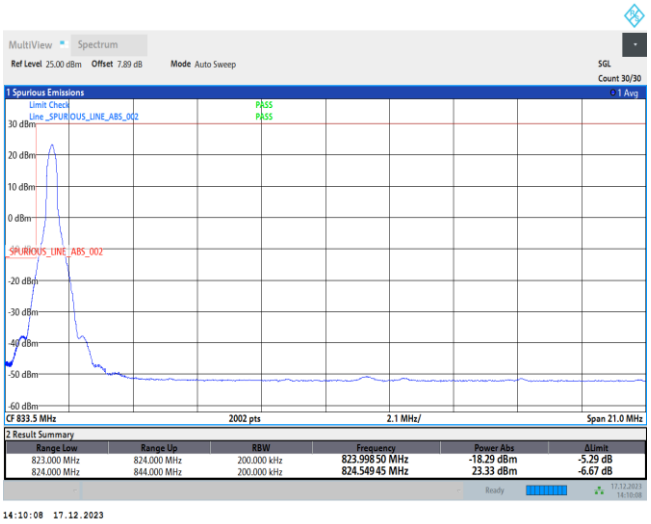

1-N5-PC3-15-20-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant0-1-seegraph-PASS-see graph

1-N5-PC3-15-20-L-3-DFT-PI2BPSK-Outer_Full-100@0-Ant0-1-seegraph-PASS-see graph

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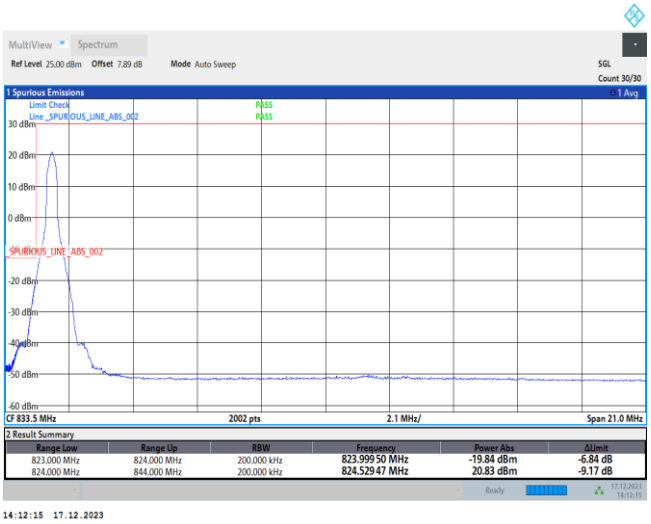

1-N5-PC3-15-20-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1-seegraph-PASS-see graph

1-N5-PC3-15-20-L-6-CP-QPSK-Outer_Full-106@0-Ant0-1-seegraph-PASS-see graph

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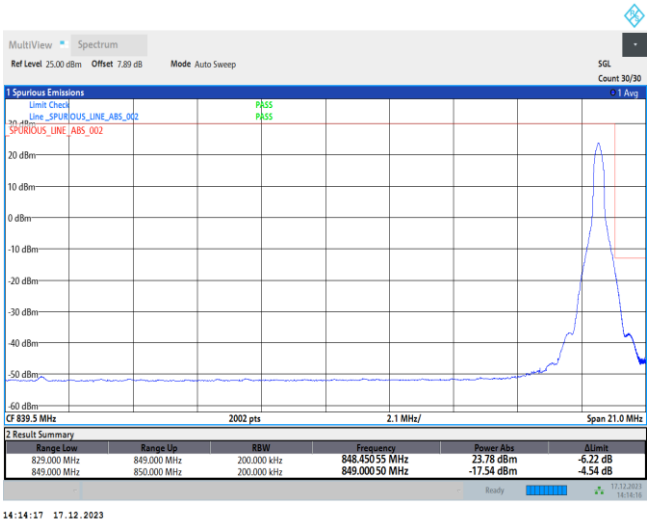

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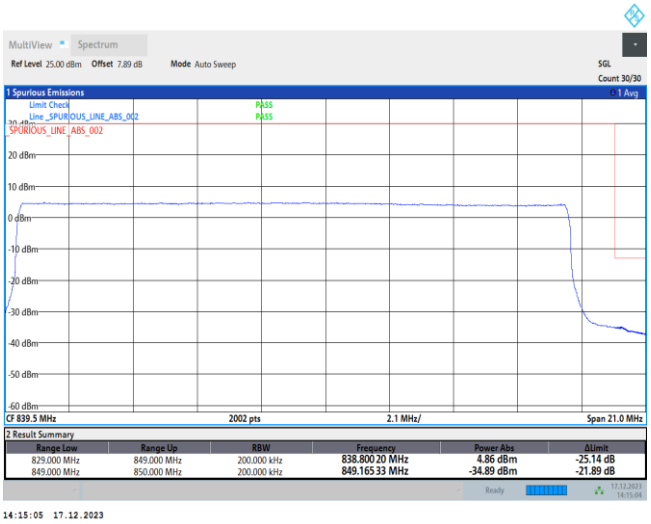

1-N5-PC3-15-20-H-3-DFT-PI2BPSK-Outer_Full-100@0-Ant0-1-seegraph-PASS-see graph

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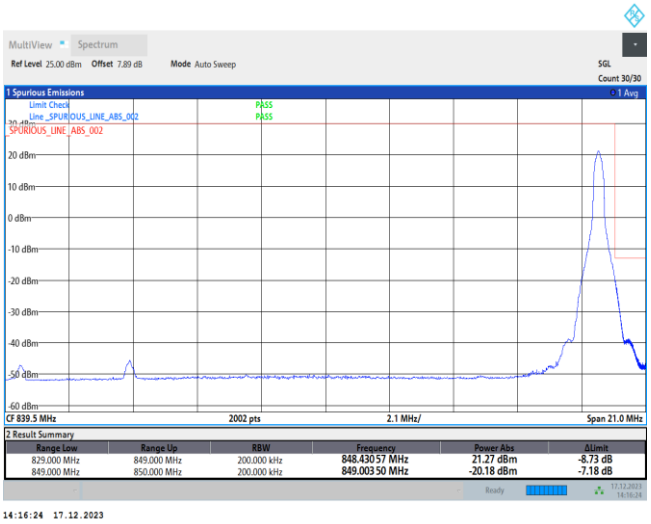

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1-N5-PC3-15-20-H-6-CP-QPSK-Outer_Full-106@0-Ant0-1-seegraph-PASS-see graph

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Conducted Spurious Emission for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	StartFreq	StopFreq	RB Config	Result	Limit	Verdict
N5	15	20	DFT-PI2BPSK	L	0.009	0.15	1@1	-62.12	-33	PASS
N5	15	20	DFT-PI2BPSK	L	0.15	30	1@1	-63.83	-23	PASS
N5	15	20	DFT-PI2BPSK	L	30	1000	1@1	-49.34	-13	PASS
N5	15	20	DFT-PI2BPSK	L	1000	3000	1@1	-54.17	-13	PASS
N5	15	20	DFT-PI2BPSK	L	3000	12000	1@1	-45.23	-13	PASS
N5	15	20	DFT-PI2BPSK	M	0.009	0.15	1@1	-62.35	-33	PASS
N5	15	20	DFT-PI2BPSK	M	0.15	30	1@1	-63.46	-23	PASS
N5	15	20	DFT-PI2BPSK	M	30	1000	1@1	-49.62	-13	PASS
N5	15	20	DFT-PI2BPSK	M	1000	3000	1@1	-53.97	-13	PASS
N5	15	20	DFT-PI2BPSK	M	3000	12000	1@1	-45.09	-13	PASS
N5	15	20	DFT-PI2BPSK	H	0.009	0.15	1@1	-62.51	-33	PASS
N5	15	20	DFT-PI2BPSK	H	0.15	30	1@1	-61.21	-23	PASS
N5	15	20	DFT-PI2BPSK	H	30	1000	1@1	-49.18	-13	PASS
N5	15	20	DFT-PI2BPSK	H	1000	3000	1@1	-54.32	-13	PASS
N5	15	20	DFT-PI2BPSK	H	3000	12000	1@1	-44.97	-13	PASS

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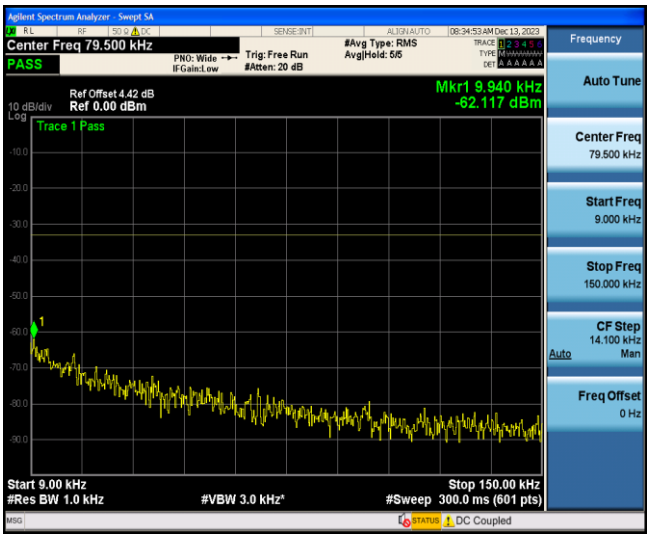
Test Graphs



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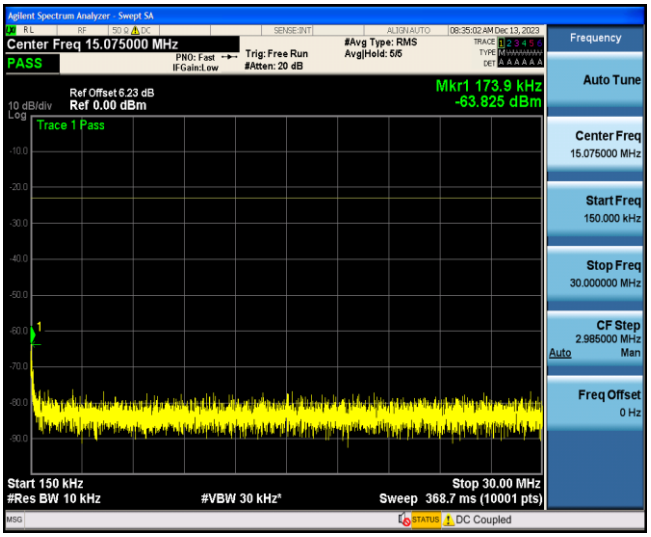

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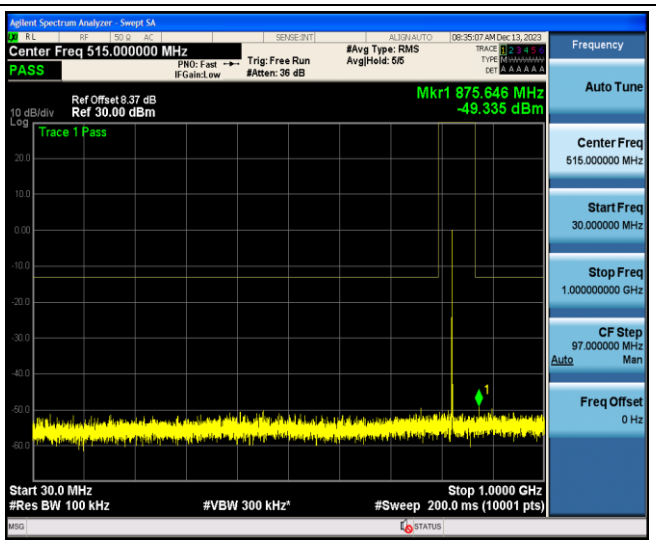

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1-N5-PC3-15-20-L-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant0-2697.20--54.17--13-PASS

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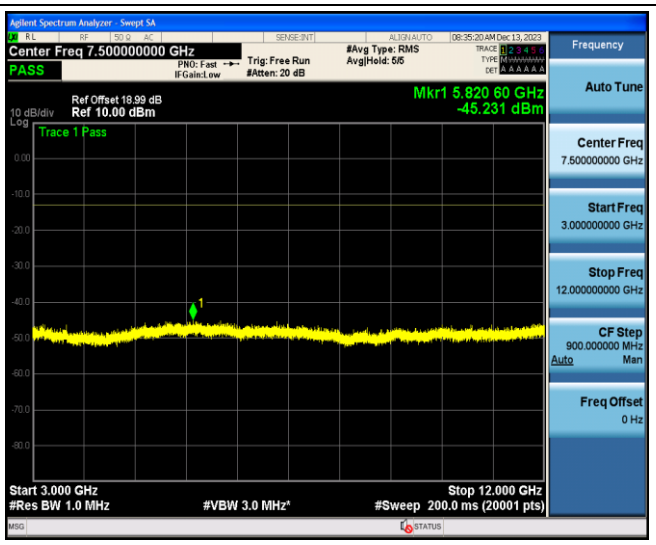

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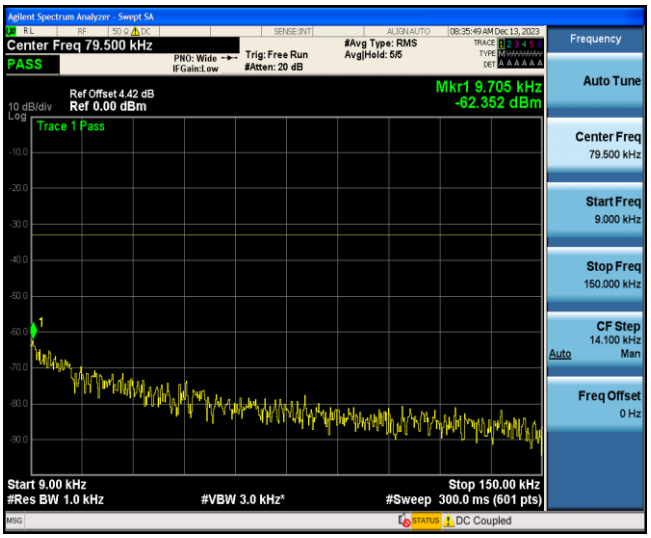

1-N5-PC3-15-20-M-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant0-0.01--62.35--33-PASS

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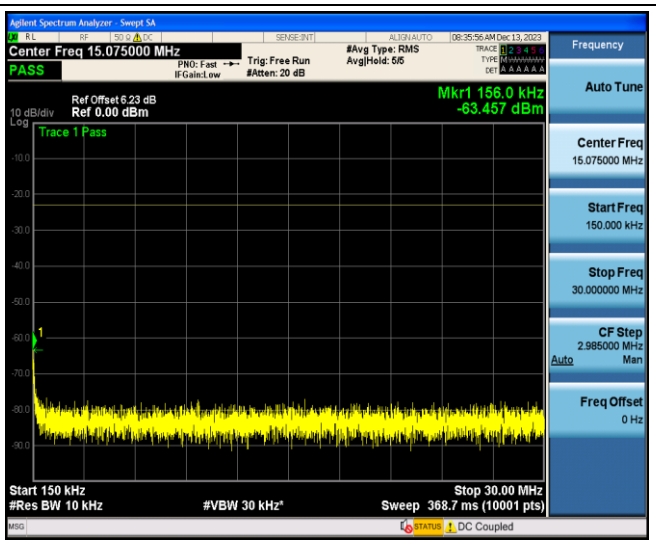

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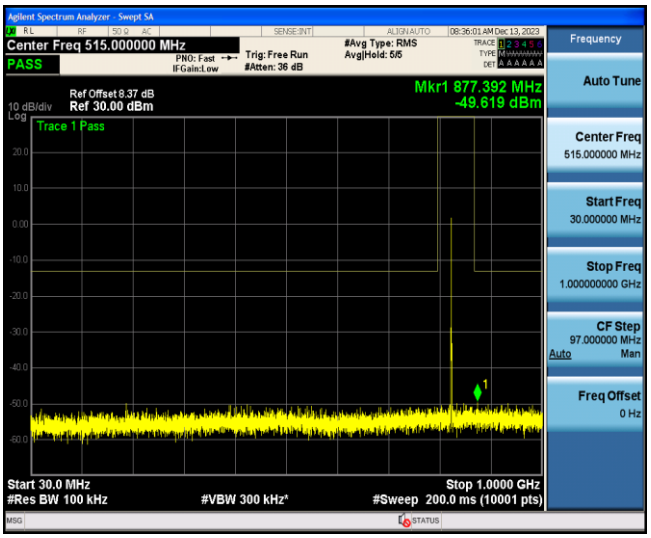

1-N5-PC3-15-20-M-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant0-877.39--49.62--13-PASS

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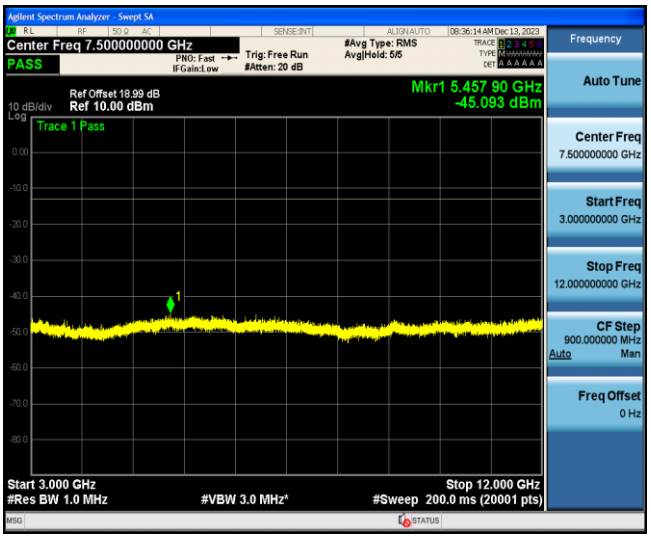
1-N5-PC3-15-20-M-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant0-2698.00--53.97--13-PASS



1-N5-PC3-15-20-M-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant0-5457.90--45.09--13-PASS

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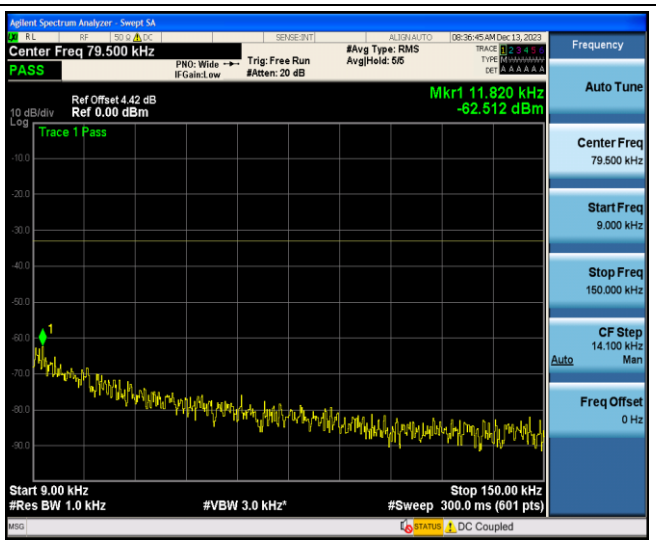
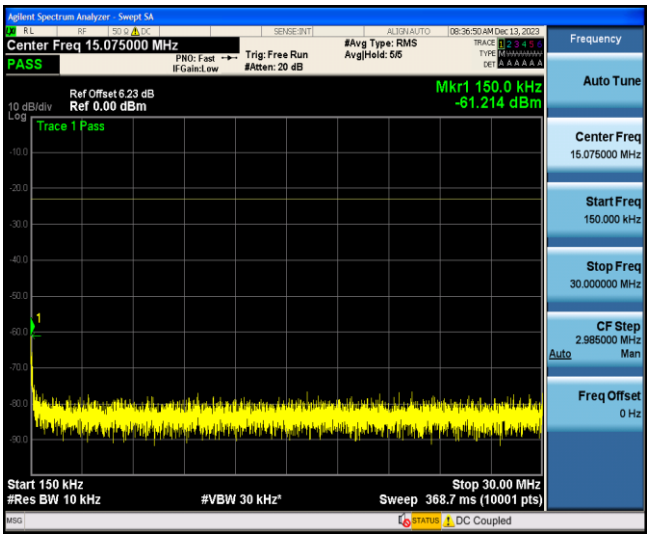


1-N5-PC3-15-20-H-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant0-0.01--62.51--33-PASS



1-N5-PC3-15-20-H-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant0-0.15--61.21--23-PASS

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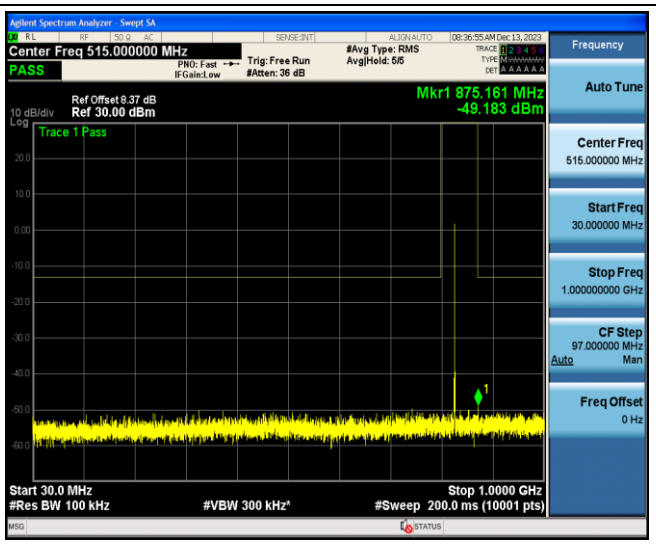

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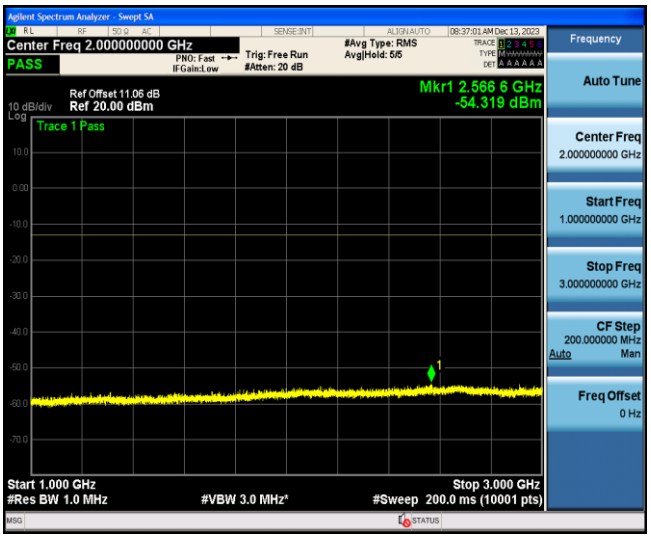

1-N5-PC3-15-20-H-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant0-2566.60--54.32--13-PASS

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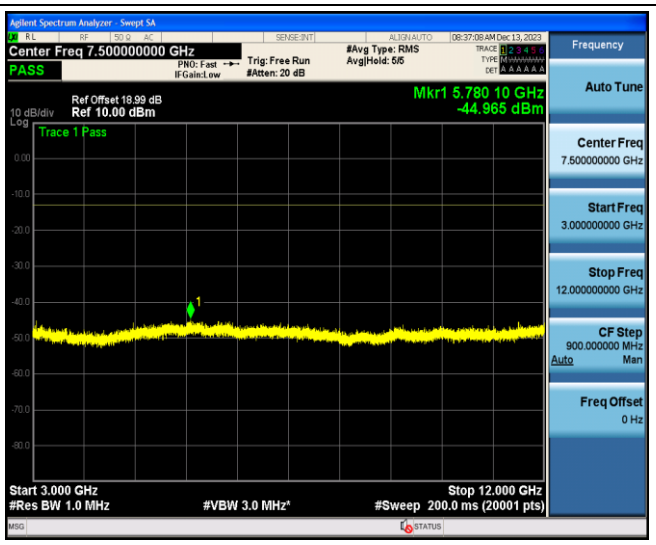

1-N5-PC3-15-20-H-1-N/A-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant0-5780.10--44.97--13-PASS

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Field Strength of Spurious Radiation

Test Band = n5_ TM1
Test Channel = Low channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1650.0000	45.94	24.90	-48.84	-73.26	-13.00	60.26	Horizontal
2	2475.0000	44.77	27.34	-47.88	-71.03	-13.00	58.03	Horizontal
3	3300.0000	44.38	28.66	-47.15	-69.37	-13.00	56.37	Horizontal
4	4125.0000	44.14	29.68	-47.49	-68.93	-13.00	55.93	Horizontal
5	4950.0000	44.32	31.28	-46.98	-66.64	-13.00	53.64	Horizontal
6	5775.0000	44.07	32.49	-46.97	-65.67	-13.00	52.67	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1650.0000	46.20	24.90	-48.84	-73.00	-13.00	60.00	Vertical
2	2475.0000	44.77	27.34	-47.88	-71.03	-13.00	58.03	Vertical
3	3300.0000	44.49	28.66	-47.15	-69.26	-13.00	56.26	Vertical
4	4125.0000	43.93	29.68	-47.49	-69.14	-13.00	56.14	Vertical
5	4950.0000	44.44	31.28	-46.98	-66.52	-13.00	53.52	Vertical
6	5775.0000	44.20	32.49	-46.97	-65.54	-13.00	52.54	Vertical

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Test Band = n5_ TM1
Test Channel = Mid channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1653.8875	49.14	24.91	-48.84	-70.05	-13.00	57.05	Horizontal
2	2482.5000	44.90	27.36	-47.84	-70.84	-13.00	57.84	Horizontal
3	3310.0000	44.55	28.66	-47.17	-69.22	-13.00	56.22	Horizontal
4	4137.5000	44.32	29.69	-47.42	-68.67	-13.00	55.67	Horizontal
5	4965.0000	44.19	31.32	-46.97	-66.72	-13.00	53.72	Horizontal
6	5792.5000	44.67	32.48	-46.99	-65.10	-13.00	52.10	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1655.0000	46.18	24.91	-48.84	-73.01	-13.00	60.01	Vertical
2	2482.5000	45.21	27.36	-47.84	-70.53	-13.00	57.53	Vertical
3	3310.0000	44.68	28.66	-47.17	-69.09	-13.00	56.09	Vertical
4	4137.5000	44.62	29.69	-47.42	-68.37	-13.00	55.37	Vertical
5	4965.0000	44.33	31.32	-46.97	-66.58	-13.00	53.58	Vertical
6	5792.5000	44.36	32.48	-46.99	-65.41	-13.00	52.41	Vertical

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Test Band = n5_ TM1
Test Channel = High channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1659.175	48.56	24.92	-48.83	-70.61	-13.00	57.61	Horizontal
2	2490.0000	44.94	27.38	-47.80	-70.74	-13.00	57.74	Horizontal
3	3320.0000	44.52	28.66	-47.19	-69.27	-13.00	56.27	Horizontal
4	4150.0000	45.49	29.71	-47.36	-67.42	-13.00	54.42	Horizontal
5	4980.0000	44.33	31.35	-46.96	-66.54	-13.00	53.54	Horizontal
6	5810.0000	44.52	32.48	-46.91	-65.17	-13.00	52.17	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1660.0000	45.86	24.92	-48.83	-73.31	-13.00	60.31	Vertical
2	2490.0000	45.96	27.38	-47.80	-69.72	-13.00	56.72	Vertical
3	3320.0000	44.59	28.66	-47.19	-69.20	-13.00	56.20	Vertical
4	4150.0000	44.30	29.71	-47.36	-68.61	-13.00	55.61	Vertical
5	4980.0000	44.30	31.35	-46.96	-66.57	-13.00	53.57	Vertical
6	5810.0000	44.49	32.48	-46.91	-65.20	-13.00	52.20	Vertical

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Test Band =n5B_ TM1
Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1650.18	45.08	-49.82	25.30	-74.70	-13.00	61.70	Horizontal
2	2475.27	44.26	-49.04	27.27	-72.77	-13.00	59.77	Horizontal
3	3300.36	44.39	-48.63	28.62	-70.88	-13.00	57.88	Horizontal
4	4125.45	42.78	-48.29	29.63	-71.14	-13.00	58.14	Horizontal
5	4950.54	43.57	-48.06	31.38	-68.37	-13.00	55.37	Horizontal
6	5775.63	42.97	-47.67	32.76	-67.20	-13.00	54.20	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1650.18	44.92	-49.82	25.30	-74.86	-13.00	61.86	Vertical
2	2475.27	43.76	-49.04	27.27	-73.27	-13.00	60.27	Vertical
3	3300.36	44.05	-48.63	28.62	-71.22	-13.00	58.22	Vertical
4	4125.45	43.09	-48.29	29.63	-70.83	-13.00	57.83	Vertical
5	4950.54	43.04	-48.06	31.38	-68.90	-13.00	55.90	Vertical
6	5775.63	42.53	-47.67	32.76	-67.64	-13.00	54.64	Vertical

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Test Band =n5B_ TM1
Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1655.18	45.20	-49.81	25.32	-74.55	-13.00	61.55	Horizontal
2	2482.77	43.48	-49.00	27.28	-73.50	-13.00	60.50	Horizontal
3	3310.36	44.03	-48.64	28.62	-71.24	-13.00	58.24	Horizontal
4	4137.95	43.51	-48.30	29.65	-70.40	-13.00	57.40	Horizontal
5	4965.54	43.36	-48.03	31.42	-68.51	-13.00	55.51	Horizontal
6	5793.13	42.60	-47.71	32.76	-67.61	-13.00	54.61	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1655.18	45.54	-49.81	25.32	-74.21	-13.00	61.21	Vertical
2	2482.77	44.60	-49.00	27.28	-72.38	-13.00	59.38	Vertical
3	3310.36	44.58	-48.64	28.62	-70.69	-13.00	57.69	Vertical
4	4137.95	42.68	-48.30	29.65	-71.23	-13.00	58.23	Vertical
5	4965.54	43.44	-48.03	31.42	-68.43	-13.00	55.43	Vertical
6	5793.13	43.00	-47.71	32.76	-67.21	-13.00	54.21	Vertical

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Test Band =n5B_ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1660.18	45.41	-49.80	25.34	-74.31	-13.00	61.31	Horizontal
2	2490.27	44.07	-48.95	27.29	-72.86	-13.00	59.86	Horizontal
3	3320.36	44.28	-48.64	28.63	-70.99	-13.00	57.99	Horizontal
4	4150.45	43.04	-48.31	29.67	-70.86	-13.00	57.86	Horizontal
5	4980.54	43.39	-48.00	31.45	-68.42	-13.00	55.42	Horizontal
6	5810.63	43.20	-47.65	32.76	-66.94	-13.00	53.94	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1660.18	45.35	-49.80	25.34	-74.37	-13.00	61.37	Vertical
2	2490.27	44.87	-48.95	27.29	-72.06	-13.00	59.06	Vertical
3	3320.36	44.53	-48.64	28.63	-70.74	-13.00	57.74	Vertical
4	4150.45	43.29	-48.31	29.67	-70.61	-13.00	57.61	Vertical
5	4980.54	43.45	-48.00	31.45	-68.36	-13.00	55.36	Vertical
6	5810.63	43.51	-47.65	32.76	-66.63	-13.00	53.63	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 (Vdc)	Temperature(℃)	Deviation(Hz)	Deviation (ppm)	Verdict
N5	15	20	DFT-PI2BPSK	M	100@0	VN	NT	-11.70	-0.01	PASS
N5	15	20	DFT-PI2BPSK	M	100@0	VL	NT	-12.90	-0.02	PASS
N5	15	20	DFT-PI2BPSK	M	100@0	VH	NT	-10.60	-0.01	PASS
N5	15	20	CP-QPSK	M	106@0	VN	NT	-7.10	-0.01	PASS
N5	15	20	CP-QPSK	M	106@0	VL	NT	-6.30	-0.01	PASS
N5	15	20	CP-QPSK	M	106@0	VH	NT	2.80	0.00	PASS

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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature(℃)	Deviation(Hz)	Deviation (ppm)	Verdict
N5	15	20	DFT-PI2BPSK	M	100@0	NV	-20	-10.600000	-0.012672	PASS
N5	15	20	DFT-PI2BPSK	M	100@0	NV	50	-10.800000	-0.012911	PASS
N5	15	20	DFT-PI2BPSK	M	100@0	NV	40	-8.600000	-0.010281	PASS
N5	15	20	DFT-PI2BPSK	M	100@0	NV	10	-10.200000	-0.012194	PASS
N5	15	20	DFT-PI2BPSK	M	100@0	NV	-10	-10.000000	-0.011955	PASS
N5	15	20	DFT-PI2BPSK	M	100@0	NV	-30	-12.600000	-0.015063	PASS
N5	15	20	DFT-PI2BPSK	M	100@0	NV	30	-9.400000	-0.011237	PASS
N5	15	20	DFT-PI2BPSK	M	100@0	NV	0	-8.200000	-0.009803	PASS
N5	15	20	DFT-PI2BPSK	M	100@0	NV	20	-15.200000	-0.018171	PASS
N5	15	20	CP-QPSK	M	106@0	NV	0	-8.000000	-0.009564	PASS
N5	15	20	CP-QPSK	M	106@0	NV	10	-5.500000	-0.006575	PASS
N5	15	20	CP-QPSK	M	106@0	NV	-10	-6.000000	-0.007173	PASS
N5	15	20	CP-QPSK	M	106@0	NV	-20	-3.000000	-0.003586	PASS
N5	15	20	CP-QPSK	M	106@0	NV	50	-6.200000	-0.007412	PASS
N5	15	20	CP-QPSK	M	106@0	NV	30	-4.800000	-0.005738	PASS
N5	15	20	CP-QPSK	M	106@0	NV	-30	-6.900000	-0.008249	PASS
N5	15	20	CP-QPSK	M	106@0	NV	40	-5.700000	-0.006814	PASS
N5	15	20	CP-QPSK	M	106@0	NV	20	-6.900000	-0.008249	PASS

---End of Attachment---

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