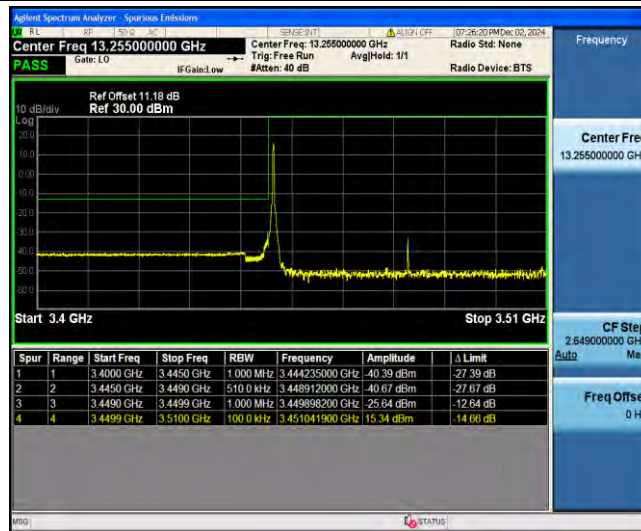
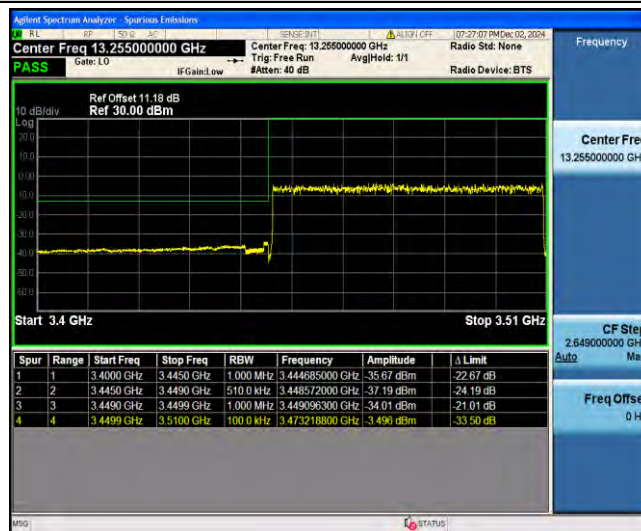
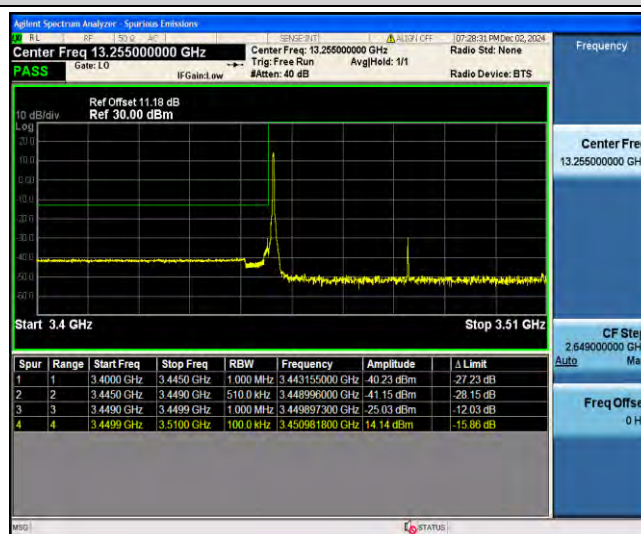




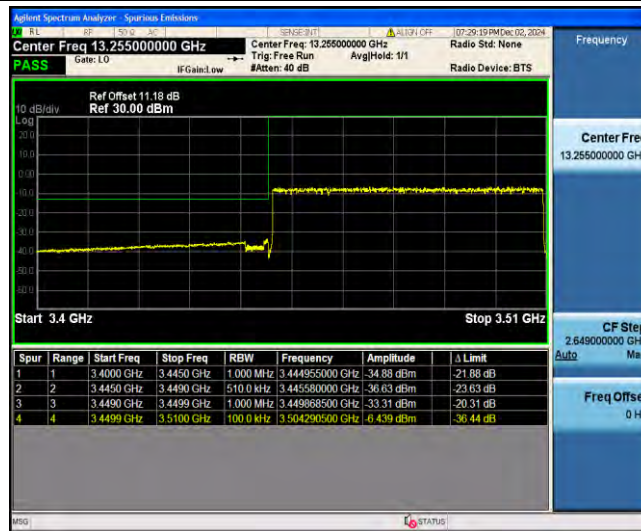
1-N78-3450-3550-PC2-30-60-L-1-DFT-QPSK-Edge_1RB_Left-1@0-Ant7-3449.90-12.64--25.64-PASS



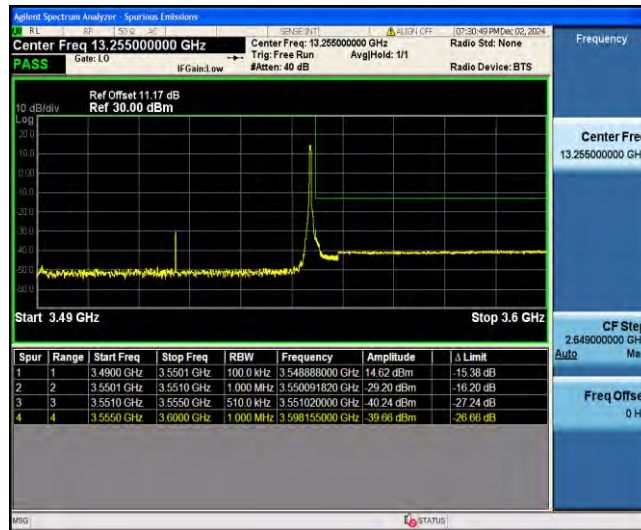
1-N78-3450-3550-PC2-30-60-L-3-DFT-QPSK-Outer_Full-162@0-Ant7-3449.10-21.01--34.01-PASS



1-N78-3450-3550-PC2-30-60-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant7-3449.90-12.03--25.03-PASS



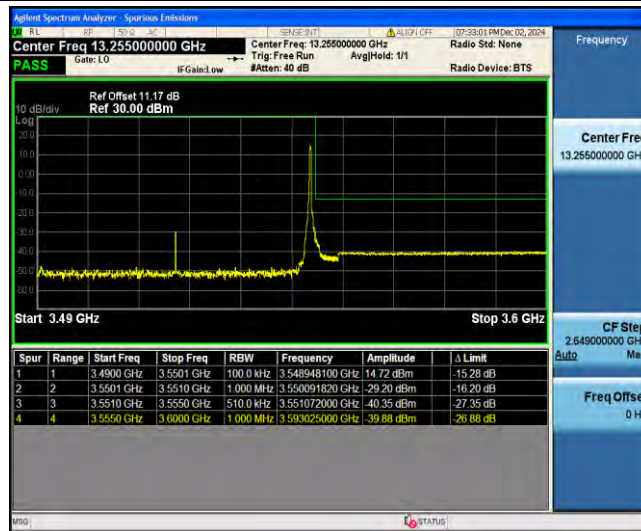
1-N78-3450-3550-PC2-30-60-L-6-CP-QPSK-Outer_Full-162@0-Ant7-3449.87-20.31--33.31-PASS



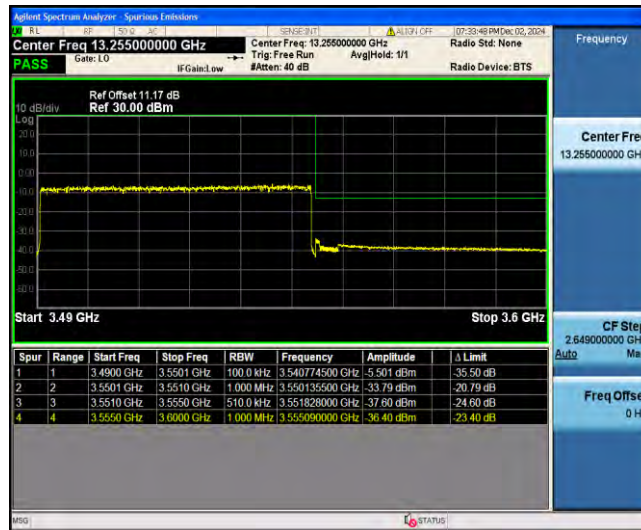
1-N78-3450-3550-PC2-30-60-H-2-DFT-QPSK-Edge_1RB_Right-1@161-Ant7-3550.09-16.20--29.20-PASS



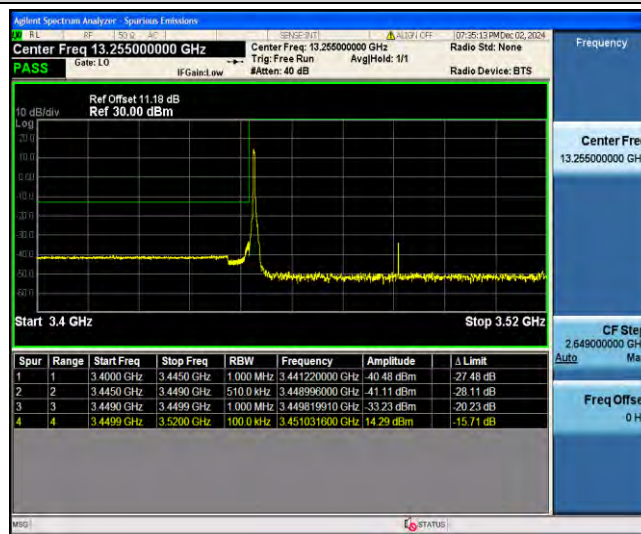
1-N78-3450-3550-PC2-30-60-H-3-DFT-QPSK-Outer_Full-162@0-Ant7-3550.15-21.01--34.01-PASS



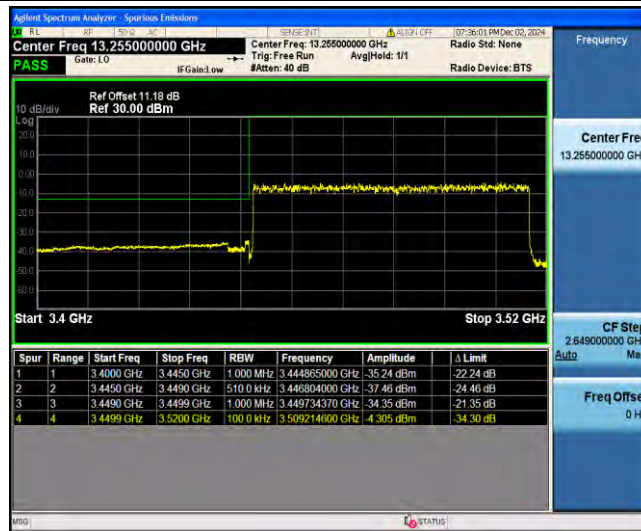
1-N78-3450-3550-PC2-30-60-H-5-CP-QPSK-Edge_1RB_Right-1@161-Ant7-3550.09-16.20--29.20-PASS



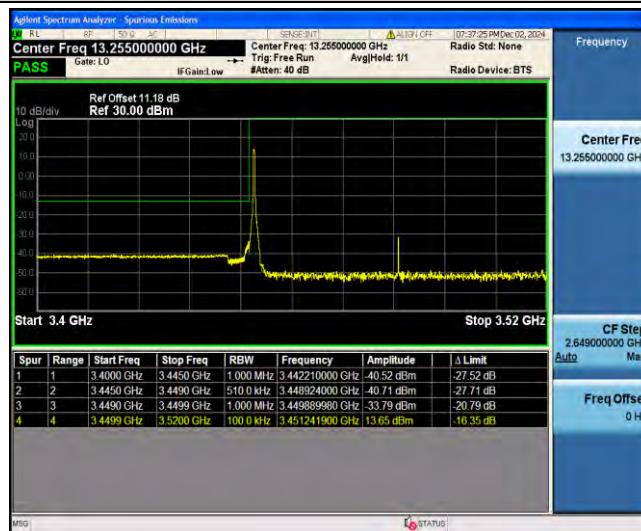
1-N78-3450-3550-PC2-30-60-H-6-CP-QPSK-Outer_Full-162@0-Ant7-3550.14-20.79--33.79-PASS



1-N78-3450-3550-PC2-30-70-L-1-DFT-QPSK-Edge_1RB_Left-1@0-Ant7-3449.82-20.23--33.23-PASS



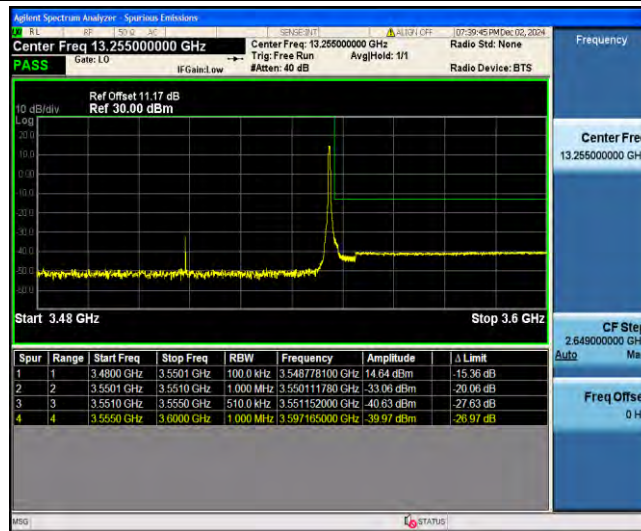
1-N78-3450-3550-PC2-30-70-L-3-DFT-QPSK-Outer_Full-180@0-Ant7-3449.73-21.35--34.35-PASS



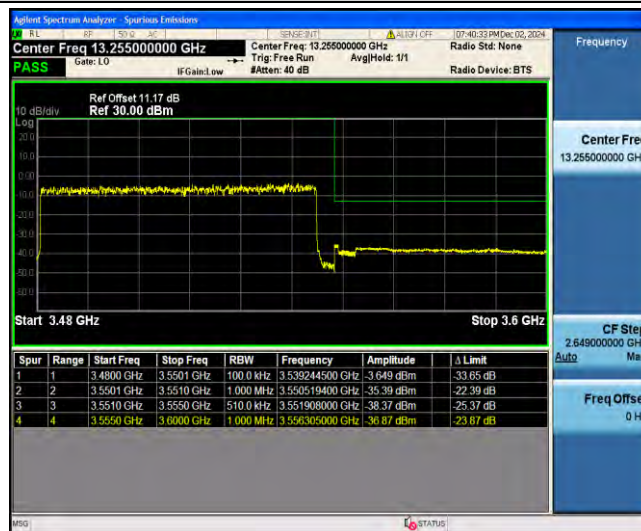
1-N78-3450-3550-PC2-30-70-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant7-3449.89-20.79--33.79-PASS



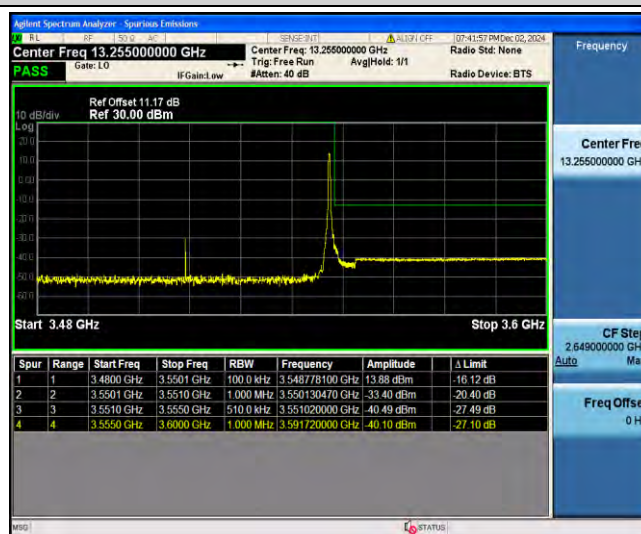
1-N78-3450-3550-PC2-30-70-L-6-CP-QPSK-Outer_Full-189@0-Ant7-3449.83-20.15--33.15-PASS



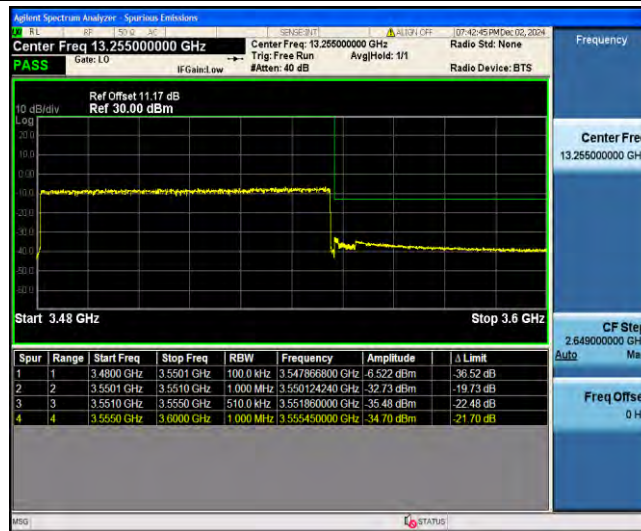
1-N78-3450-3550-PC2-30-70-H-2-DFT-QPSK-Edge_1RB_Right-1@188-Ant7-3550.11-20.06--33.06-PASS



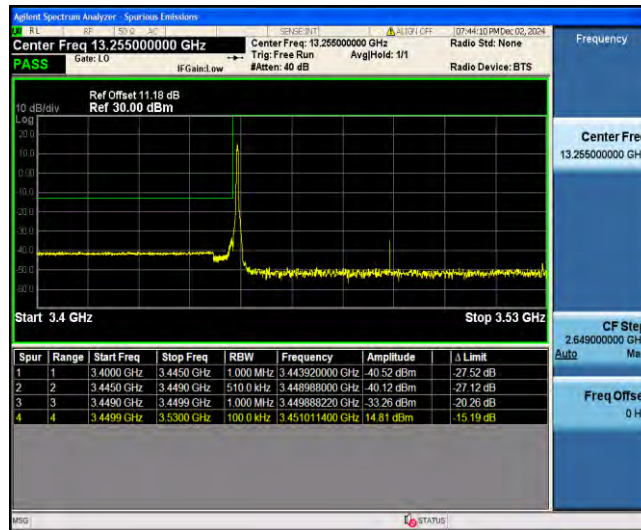
1-N78-3450-3550-PC2-30-70-H-3-DFT-QPSK-Outer_Full-180@0-Ant7-3550.52-22.39--35.39-PASS



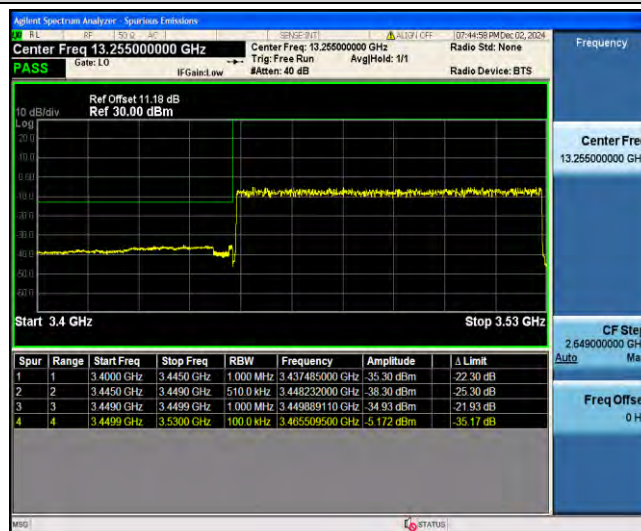
1-N78-3450-3550-PC2-30-70-H-5-CP-QPSK-Edge_1RB_Right-1@188-Ant7-3550.13-20.40--33.40-PASS



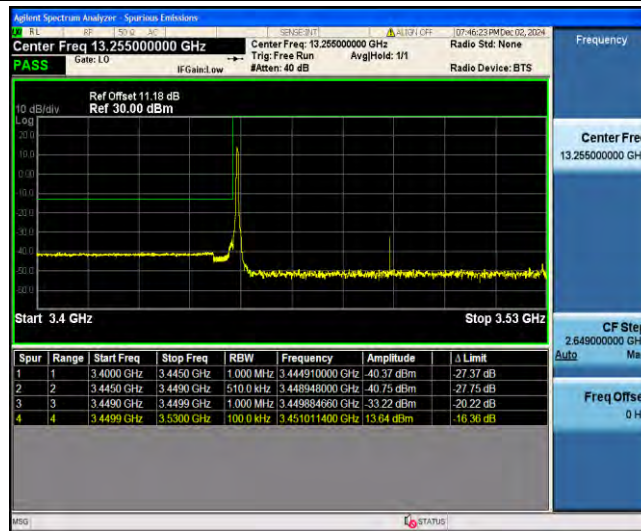
1-N78-3450-3550-PC2-30-70-H-6-CP-QPSK-Outer_Full-189@0-Ant7-3550.12-19.73--32.73-PASS



1-N78-3450-3550-PC2-30-80-L-1-DFT-QPSK-Edge_1RB_Left-1@0-Ant7-3449.89-20.26--33.26-PASS



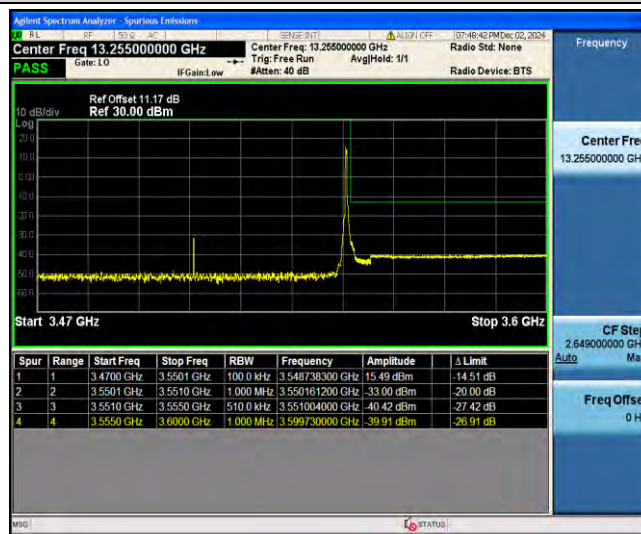
1-N78-3450-3550-PC2-30-80-L-3-DFT-QPSK-Outer_Full-216@0-Ant7-3449.89-21.93--34.93-PASS



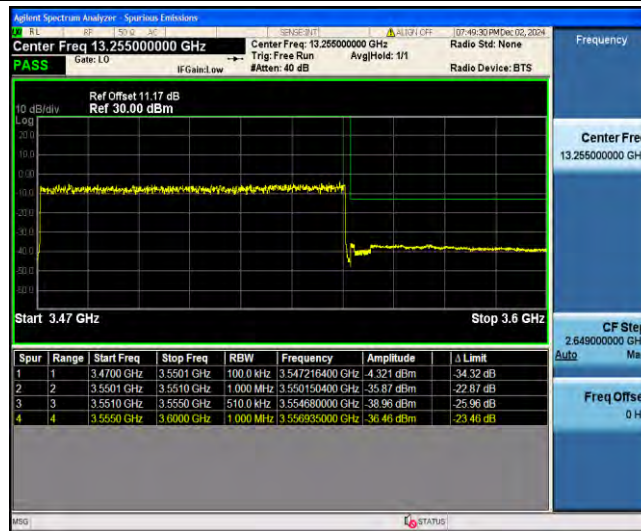
1-N78-3450-3550-PC2-30-80-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant7-3449.88-20.22--33.22-PASS



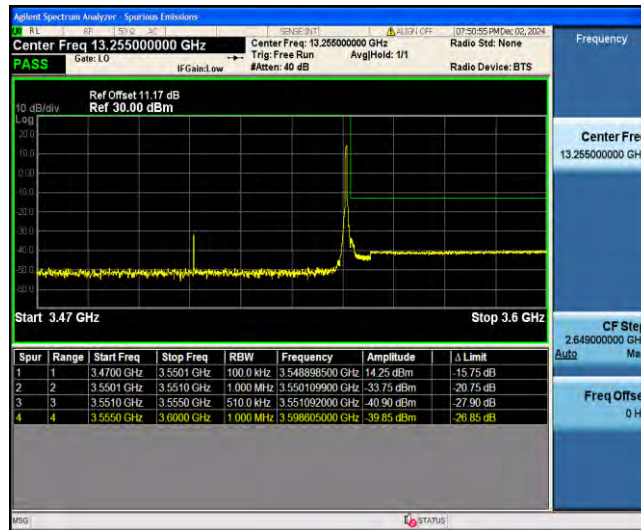
1-N78-3450-3550-PC2-30-80-L-6-CP-QPSK-Outer_Full-217@0-Ant7-3449.88-21.44--34.44-PASS



1-N78-3450-3550-PC2-30-80-H-2-DFT-QPSK-Edge_1RB_Right-1@216-Ant7-3550.16-20.00--33.00-PASS



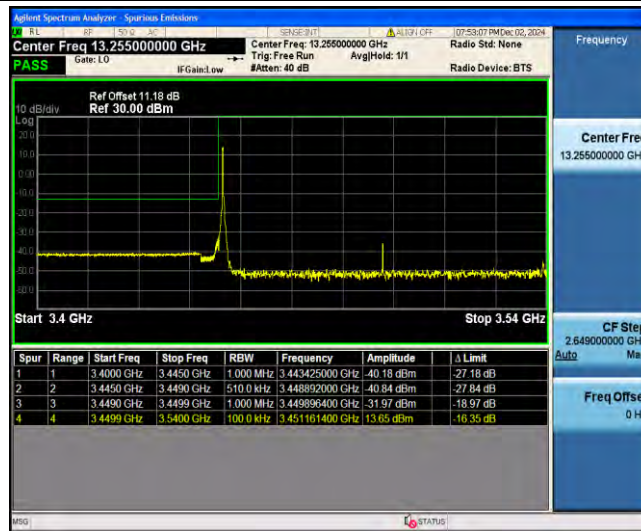
1-N78-3450-3550-PC2-30-80-H-3-DFT-QPSK-Outer_Full-216@0-Ant7-3550.15-22.87--35.87-PASS



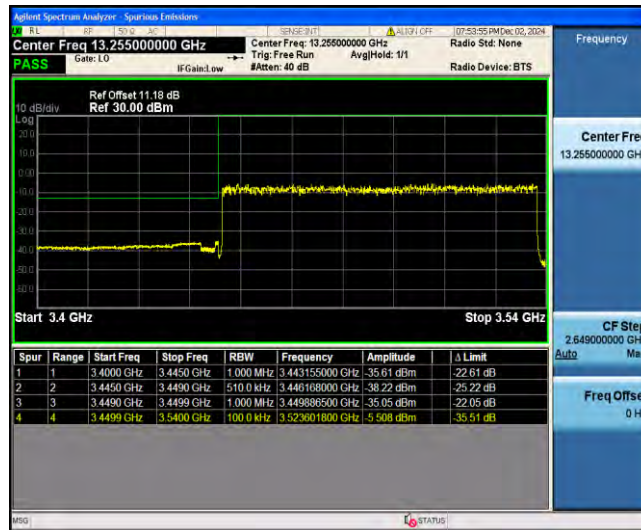
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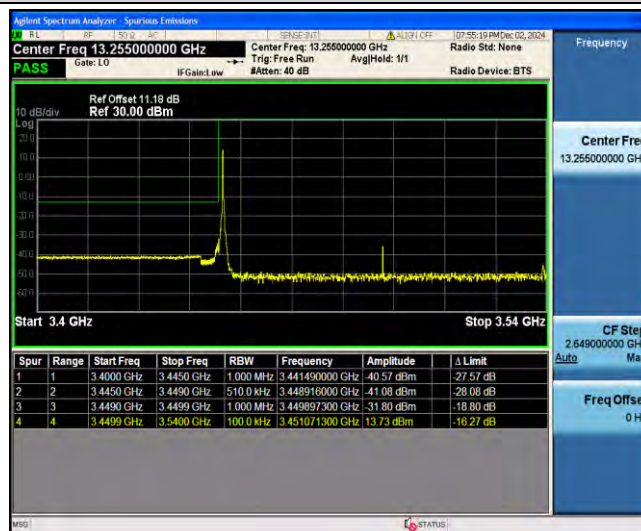
1-N78-3450-3550-PC2-30-80-H-6-CP-QPSK-Outer_Full-217@0-Ant7-3550.11-21.54--34.54-PASS



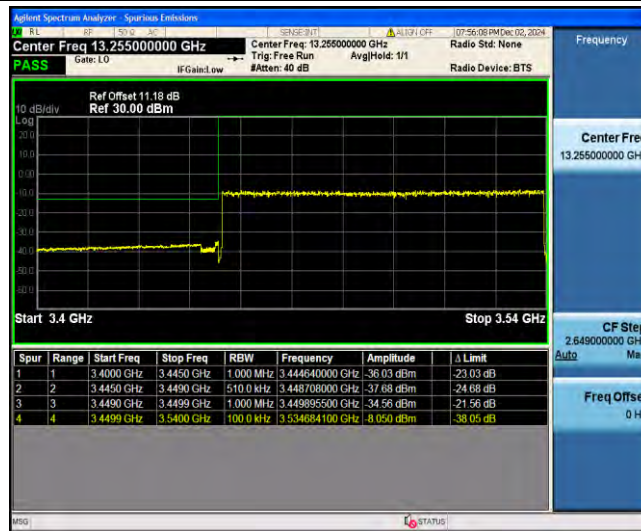
1-N78-3450-3550-PC2-30-90-L-1-DFT-QPSK-Edge_1RB_Left-1@0-Ant7-3449.90-18.97--31.97-PASS



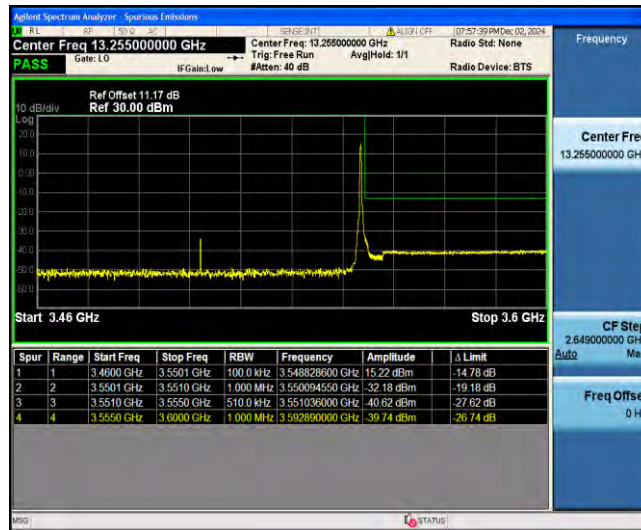
1-N78-3450-3550-PC2-30-90-L-3-DFT-QPSK-Outer_Full-240@0-Ant7-3449.89-22.05--35.05-PASS



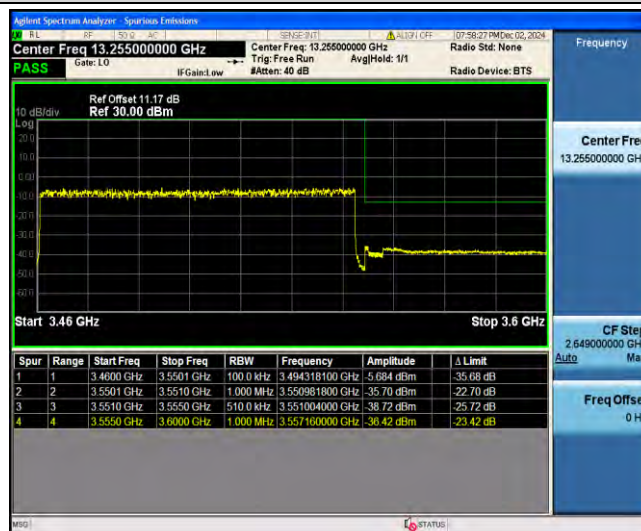
1-N78-3450-3550-PC2-30-90-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant7-3449.90-18.80--31.80-PASS



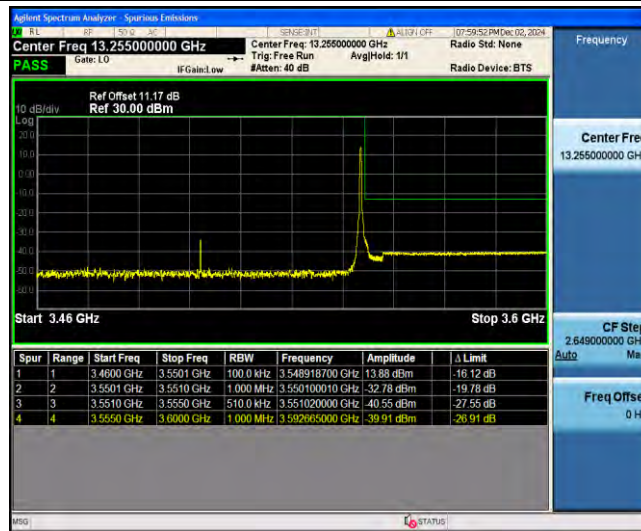
1-N78-3450-3550-PC2-30-90-L-6-CP-QPSK-Outer_Full-245@0-Ant7-3449.90-21.56--34.56-PASS



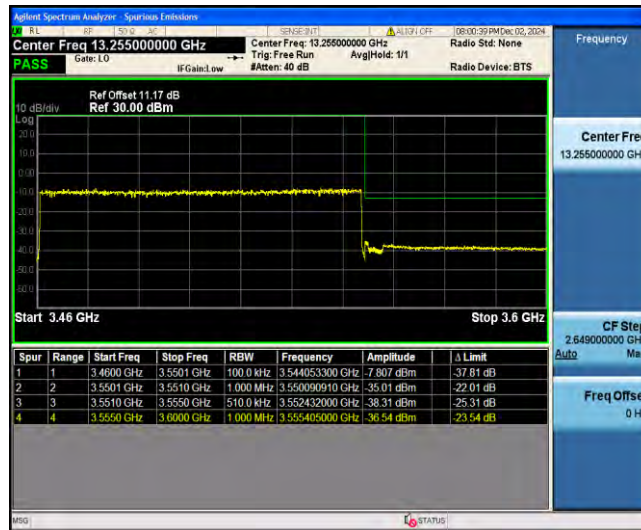
1-N78-3450-3550-PC2-30-90-H-2-DFT-QPSK-Edge_1RB_Right-1@244-Ant7-3550.09-19.18--32.18-PASS



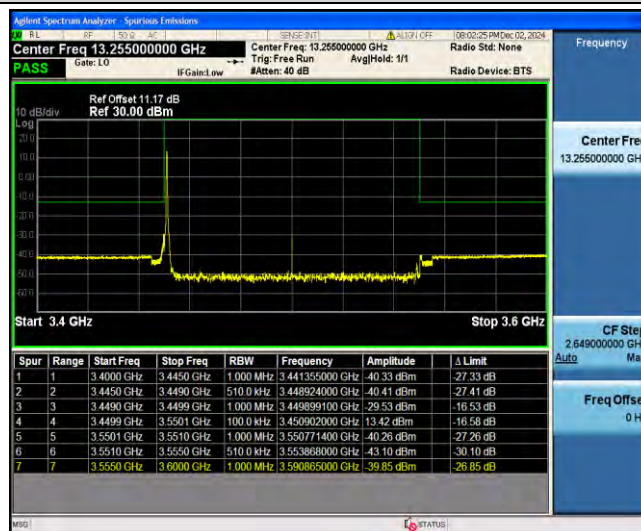
1-N78-3450-3550-PC2-30-90-H-3-DFT-QPSK-Outer_Full-240@0-Ant7-3550.98-22.70--35.70-PASS



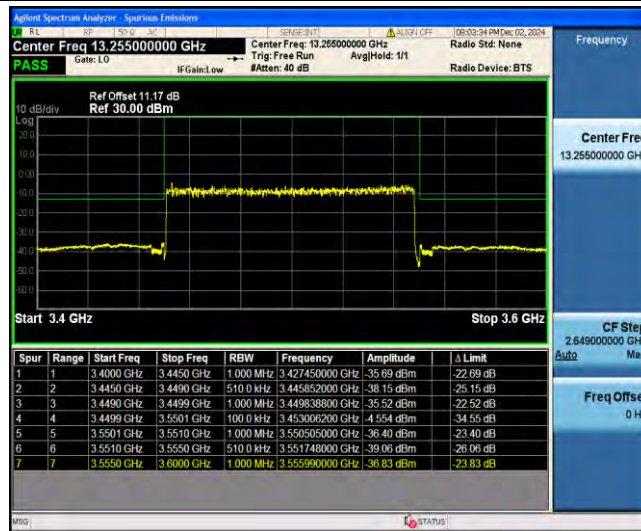
1-N78-3450-3550-PC2-30-90-H-5-CP-QPSK-Edge_1RB_Right-1@244-Ant7-3550.10-19.78--32.78-PASS



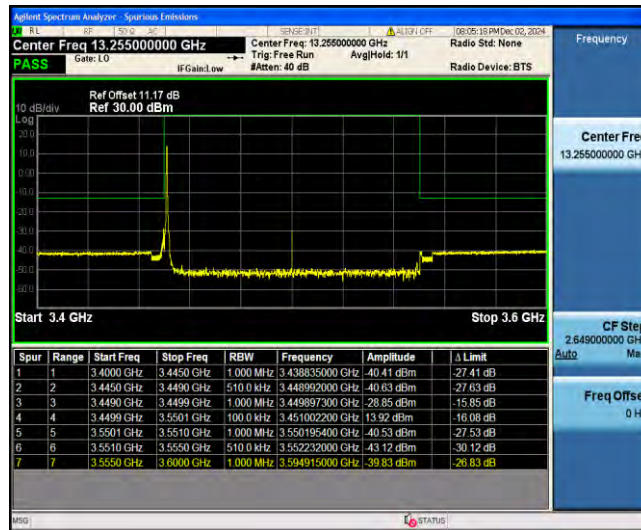
1-N78-3450-3550-PC2-30-90-H-6-CP-QPSK-Outer_Full-245@0-Ant7-3550.09-22.01--35.01-PASS



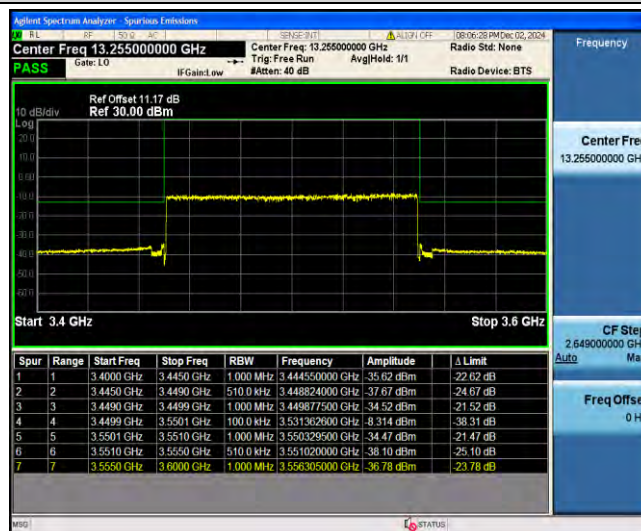
1-N78-3450-3550-PC2-30-100-L-1-DFT-QPSK-Edge_1RB_Left-1@0-Ant7-3449.90-16.53--29.53-PASS



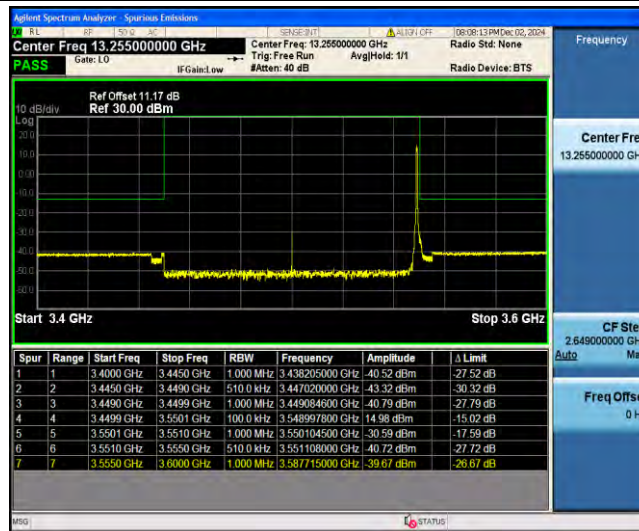
1-N78-3450-3550-PC2-30-100-L-3-DFT-QPSK-Outer_Full-270@0-Ant7-3449.84-22.52--35.52-PASS



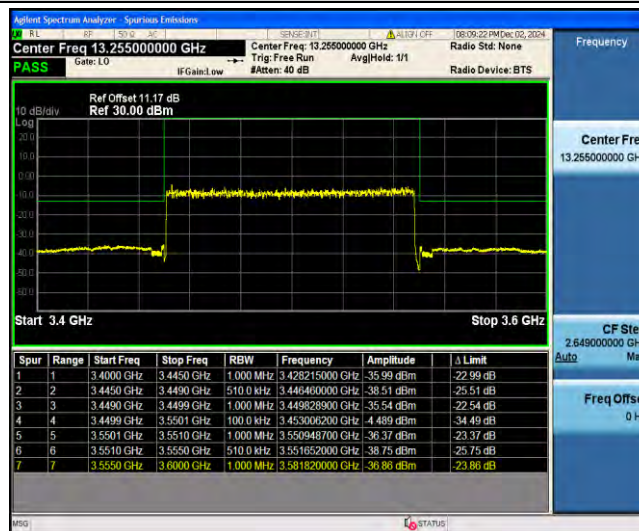
1-N78-3450-3550-PC2-30-100-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant7-3449.90-15.85--28.85-PASS



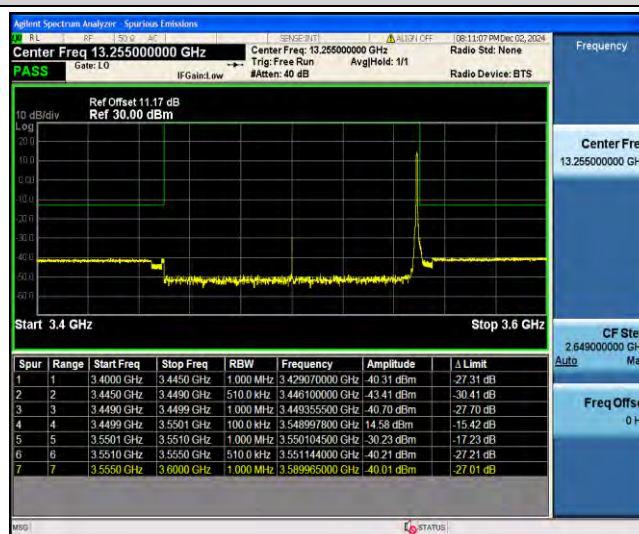
1-N78-3450-3550-PC2-30-100-L-6-CP-QPSK-Outer_Full-273@0-Ant7-3550.33-21.47--34.47-PASS



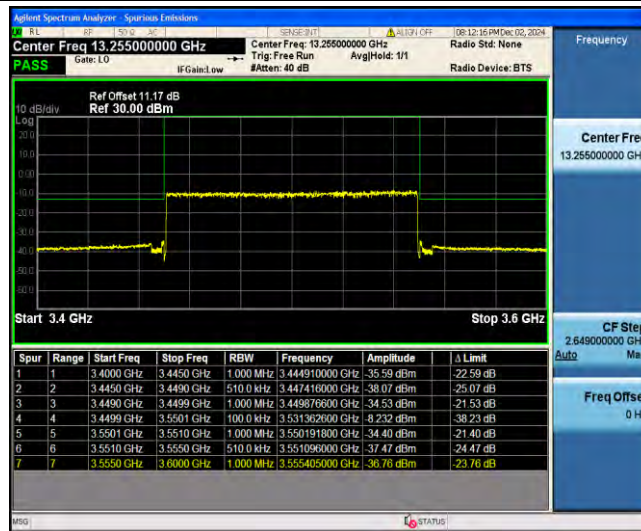
1-N78-3450-3550-PC2-30-100-H-2-DFT-QPSK-Edge_1RB_Right-1@272-Ant7-3550.10-17.59--30.59-PASS



1-N78-3450-3550-PC2-30-100-H-3-DFT-QPSK-Outer_Full-270@0-Ant7-3449.83-22.54--35.54-PASS



1-N78-3450-3550-PC2-30-100-H-5-CP-QPSK-Edge_1RB_Right-1@272-Ant7-3550.10-17.23--30.23-PASS



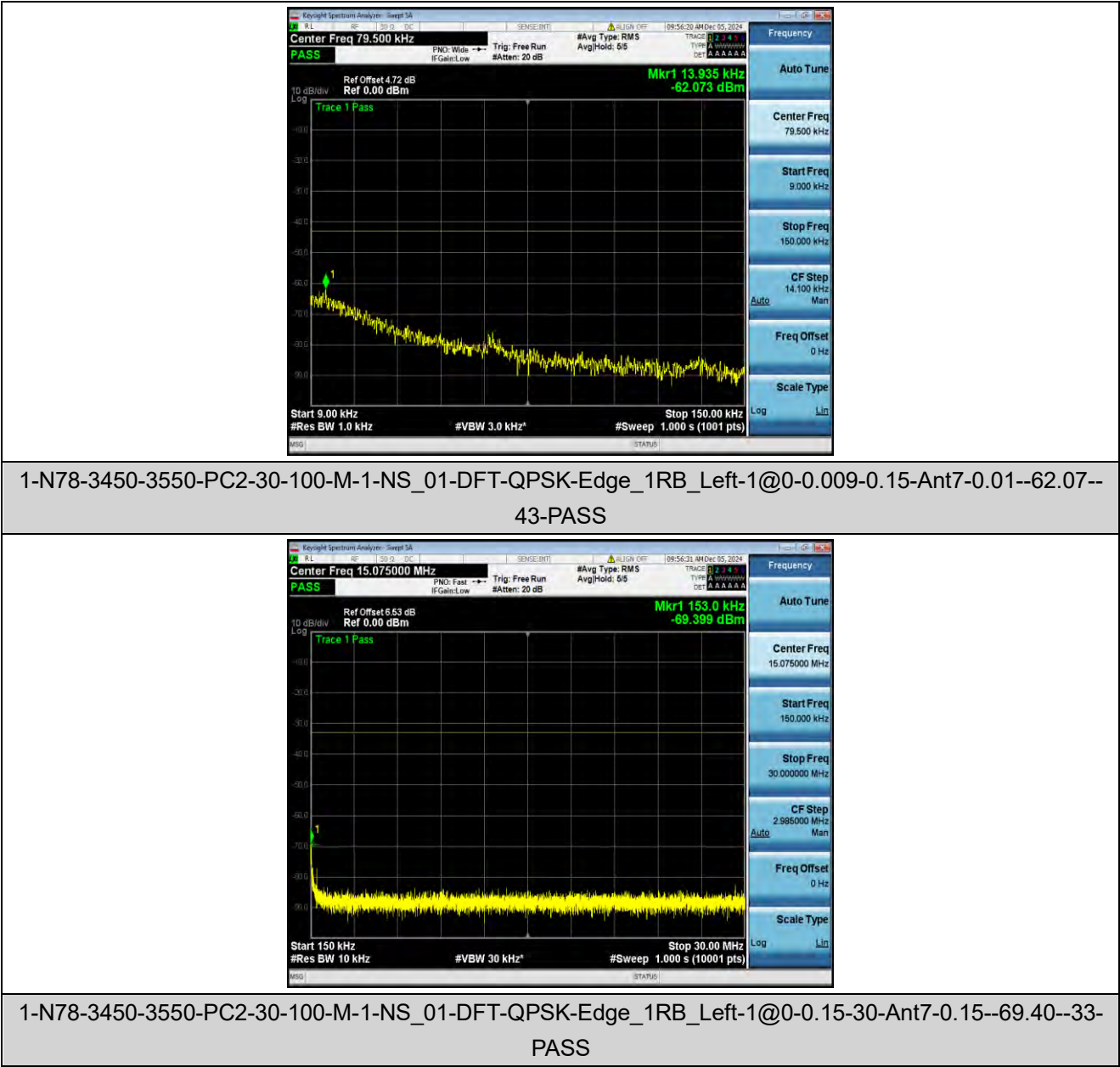
1-N78-3450-3550-PC2-30-100-H-6-CP-QPSK-Outer_Full-273@0-Ant7-3550.19-21.40--34.40-PASS

Conducted Spurious Emission for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	StartFreq	StopFreq	RB Config	Result (dBm)	Limit (dBm)	Verdict
N78-3450-3550	30	100	DFT-QPSK	M	0.009	0.15	1@0	-62.07	-43	PASS
N78-3450-3550	30	100	DFT-QPSK	M	0.15	30	1@0	-69.40	-33	PASS
N78-3450-3550	30	100	DFT-QPSK	M	30	1000	1@0	-56.49	-23	PASS
N78-3450-3550	30	100	DFT-QPSK	M	1000	3000	1@0	-42.72	-13	PASS
N78-3450-3550	30	100	DFT-QPSK	M	3000	6000	1@0	-35.99	-13	PASS
N78-3450-3550	30	100	DFT-QPSK	M	6000	26000	1@0	-33.58	-13	PASS
N78-3450-3550	30	100	DFT-QPSK	M	26000	40000	1@0	-37.11	-13	PASS

Test Graphs





1-N78-3450-3550-PC2-30-100-M-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-30-1000-Ant7-871.48--56.49--
23-PASS



1-N78-3450-3550-PC2-30-100-M-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-1000-3000-Ant7-2637.80--42.
72--13-PASS



1-N78-3450-3550-PC2-30-100-M-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-3000-6000-Ant7-3776.85--35.
99--13-PASS



1-N78-3450-3550-PC2-30-100-M-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-6000-26000-Ant7-25683.00--3
3.58--13-PASS



1-N78-3450-3550-PC2-30-100-M-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-26000-40000-Ant7-38910.10--
37.11--13-PASS

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
N78-3450-3550	30	100	DFT-QPSK	M	270@0	HV	NT	3.99	0.00114	PASS
N78-3450-3550	30	100	DFT-QPSK	M	270@0	NV	NT	-2.07	-0.00059	PASS
N78-3450-3550	30	100	DFT-QPSK	M	270@0	LV	NT	-2.29	-0.00065	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	HV	NT	-0.93	-0.00027	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	NV	NT	-3.20	-0.00091	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	LV	NT	1.33	0.00038	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature(℃)	Deviation(Hz)	Deviation (ppm)	Verdict
N78-3450-3550	30	100	DFT-QPSK	M	270@0	NV	50	-1.066000	-0.000305	PASS
N78-3450-3550	30	100	DFT-QPSK	M	270@0	NV	-20	-4.203000	-0.001201	PASS
N78-3450-3550	30	100	DFT-QPSK	M	270@0	NV	-10	-1.349000	-0.000385	PASS
N78-3450-3550	30	100	DFT-QPSK	M	270@0	NV	0	-3.167000	-0.000905	PASS
N78-3450-3550	30	100	DFT-QPSK	M	270@0	NV	10	-3.656000	-0.001045	PASS
N78-3450-3550	30	100	DFT-QPSK	M	270@0	NV	20	-1.685000	-0.000481	PASS
N78-3450-3550	30	100	DFT-QPSK	M	270@0	NV	30	-0.472000	-0.000135	PASS
N78-3450-3550	30	100	DFT-QPSK	M	270@0	NV	-30	-3.473000	-0.000992	PASS
N78-3450-3550	30	100	DFT-QPSK	M	270@0	NV	40	-3.012000	-0.000861	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	NV	50	-3.812000	-0.001089	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	NV	-20	-3.013000	-0.000861	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	NV	-10	-3.523000	-0.001007	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	NV	0	-4.161000	-0.001189	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	NV	10	-4.438000	-0.001268	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	NV	20	-1.027000	-0.000293	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	NV	30	-0.252000	-0.000072	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	NV	40	-2.114000	-0.000604	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	NV	-30	-4.189000	-0.001197	PASS

Field Strength of Spurious Radiation

NR N78a(3450-3550MHz) ANT5-Middle channel, Modulation: QPSK, Bandwidth:100MHz, 1RB#1								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
6910.0	-54.19	-13	-41.19	-60.29	4.91	11.01	Horizontal	Pass
10365.0	-56.62	-13	-43.62	-64.2	5.52	13.1	Horizontal	Pass
13820.0	-53.82	-13	-40.82	-61.99	6.21	14.38	Horizontal	Pass
6910.0	-46.66	-13	-33.66	-52.76	4.91	11.01	Vertical	Pass
10365.0	-56.26	-13	-43.26	-63.84	5.52	13.1	Vertical	Pass
13820.0	-54.51	-13	-41.51	-62.68	6.21	14.38	Vertical	Pass

NSA_4A_n78A 3450-3550-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
6910.0	-52.56	-13	-39.56	-58.66	4.91	11.01	Horizontal	Pass
10365.0	-56.67	-13	-43.67	-64.25	5.52	13.1	Horizontal	Pass
13820.0	-54.56	-13	-41.56	-62.73	6.21	14.38	Horizontal	Pass
6910.0	-49.74	-13	-36.74	-55.84	4.91	11.01	Vertical	Pass
10365.0	-56.35	-13	-43.35	-63.93	5.52	13.1	Vertical	Pass
13820.0	-54.36	-13	-41.36	-62.53	6.21	14.38	Vertical	Pass