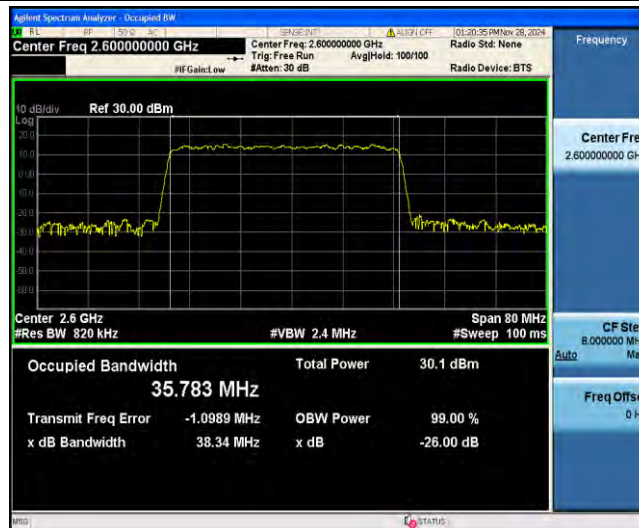
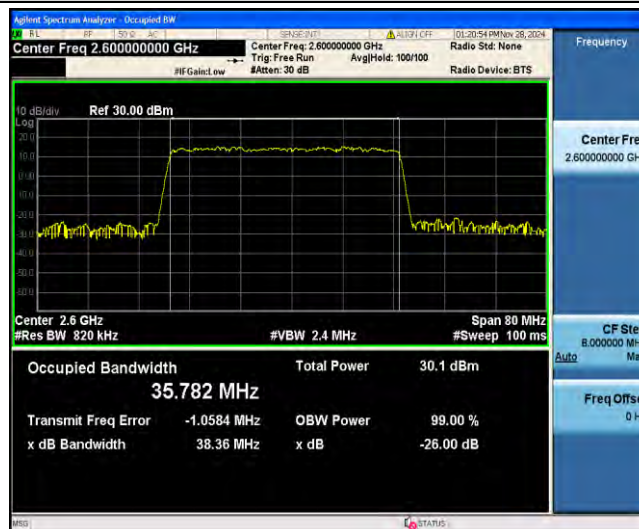
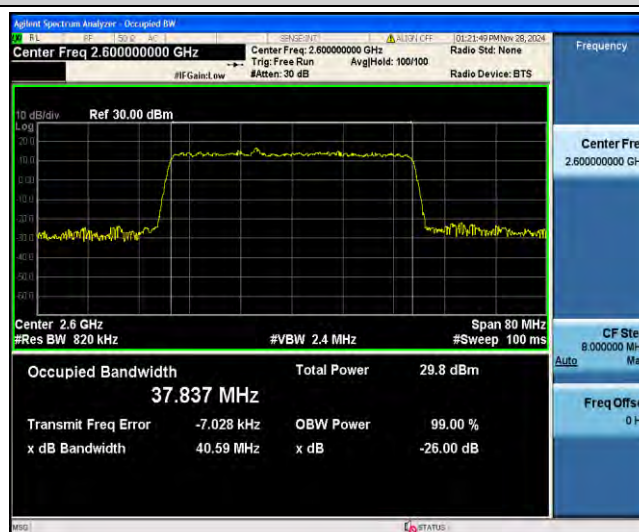




1-N38-PC3-30-40-H-4-DFT-64QAM-Outer_Full-100@0-Ant3-35.783-38.34-≤40-PASS



1-N38-PC3-30-40-H-5-DFT-256QAM-Outer_Full-100@0-Ant3-35.782-38.36-≤40-PASS



1-N38-PC3-30-40-H-6-CP-QPSK-Outer_Full-106@0-Ant3-37.837-40.59-≤40-PASS



1-N38-PC3-30-40-H-7-CP-16QAM-Outer_Full-106@0-Ant3-37.982-40.55-≤40-PASS



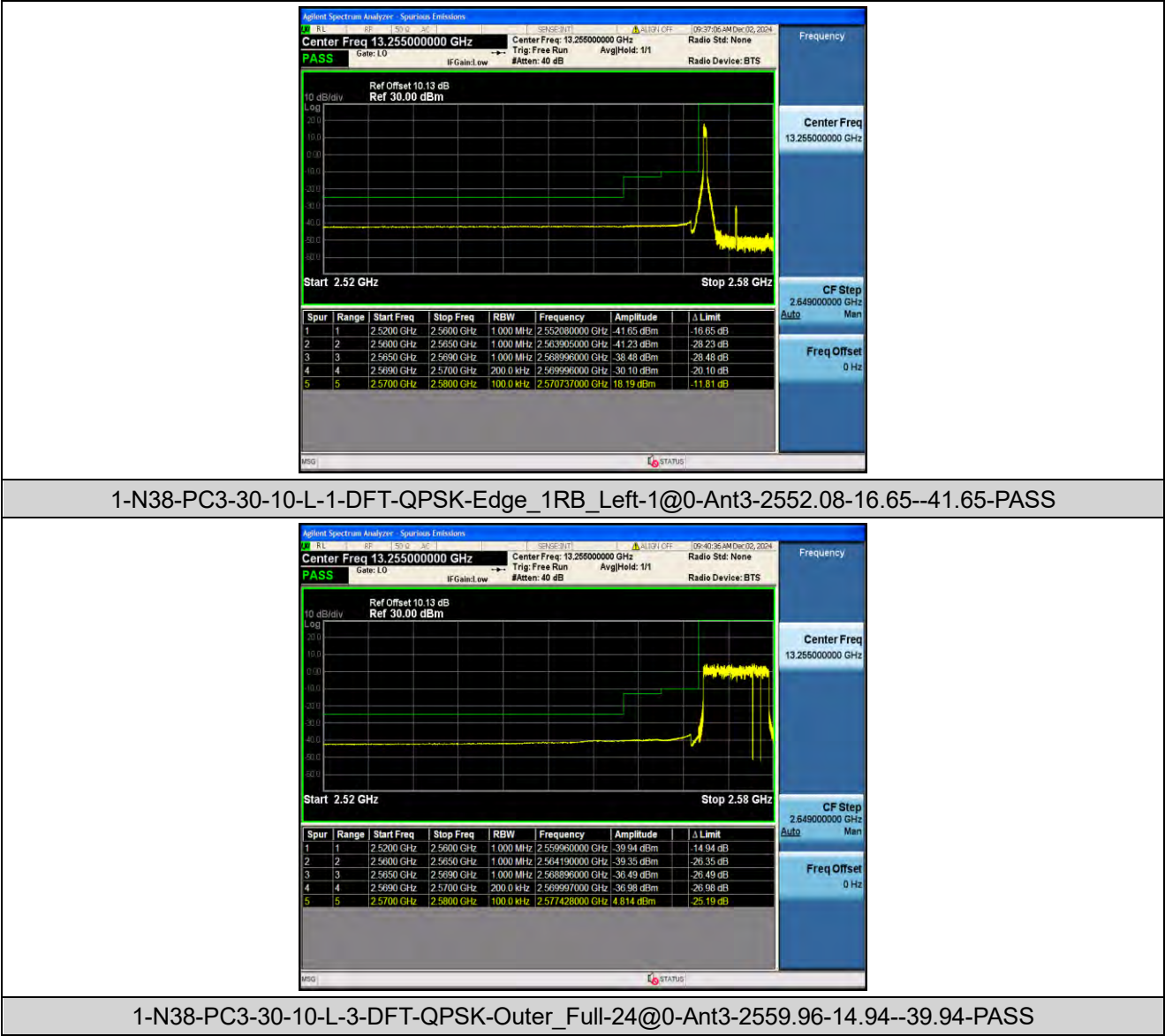
1-N38-PC3-30-40-H-8-CP-64QAM-Outer_Full-106@0-Ant3-37.936-40.56-≤40-PASS

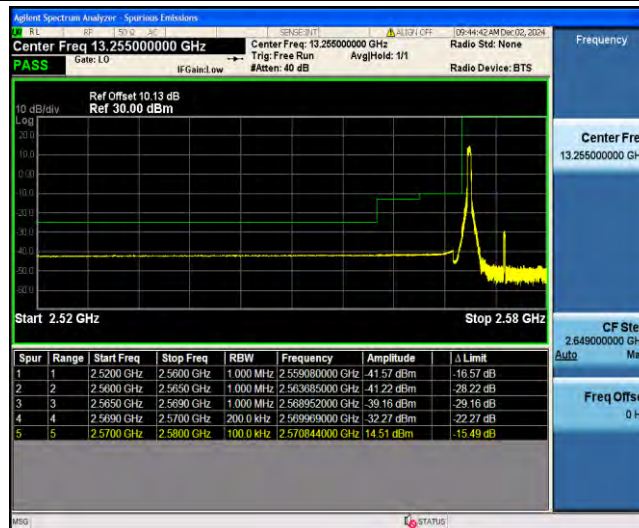


1-N38-PC3-30-40-H-9-CP-256QAM-Outer_Full-106@0-Ant3-37.774-40.40-≤40-PASS

Band Edge for SA

Test Graphs

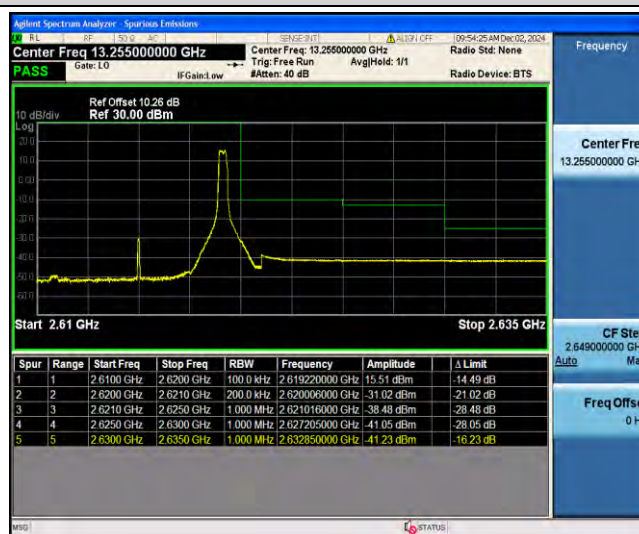




1-N38-PC3-30-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant3-2559.08-16.57--41.57-PASS



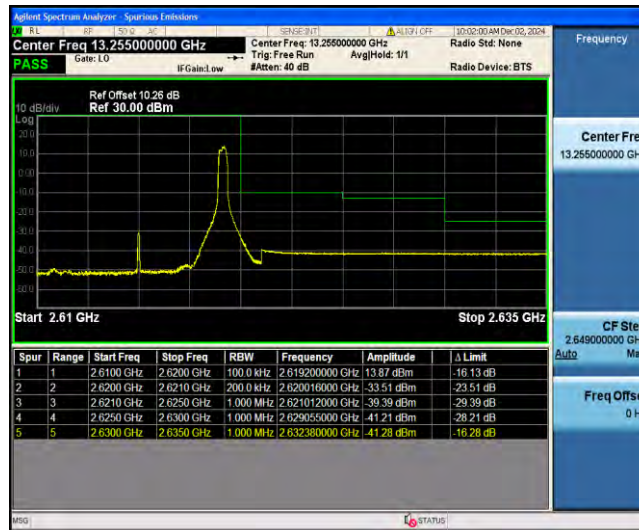
1-N38-PC3-30-10-L-6-CP-QPSK-Outer_Full-24@0-Ant3-2559.44-15.02--40.02-PASS



1-N38-PC3-30-10-H-2-DFT-QPSK-Edge_1RB_Right-1@23-Ant3-2632.85-16.23--41.23-PASS



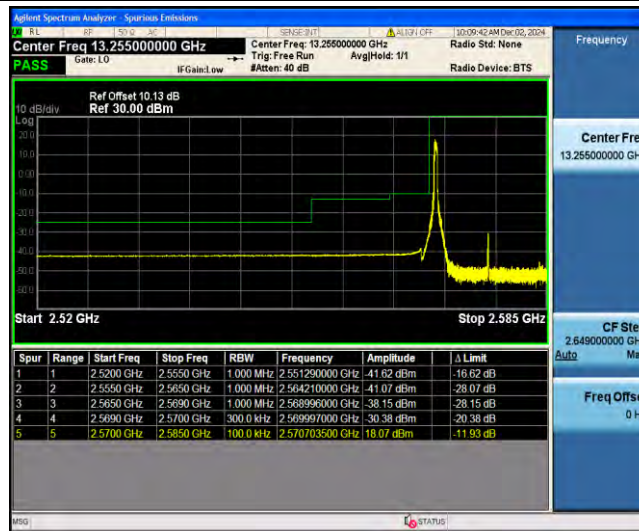
1-N38-PC3-30-10-H-3-DFT-QPSK-Outer_Full-24@0-Ant3-2630.58-14.31--39.31-PASS



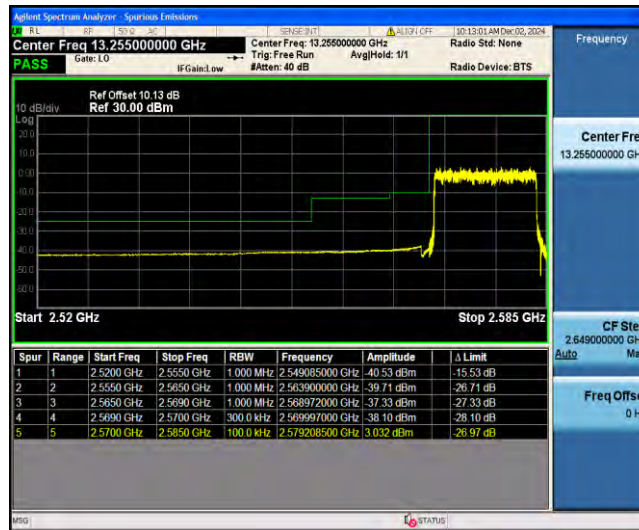
1-N38-PC3-30-10-H-5-CP-QPSK-Edge_1RB_Right-1@23-Ant3-2632.38-16.28--41.28-PASS



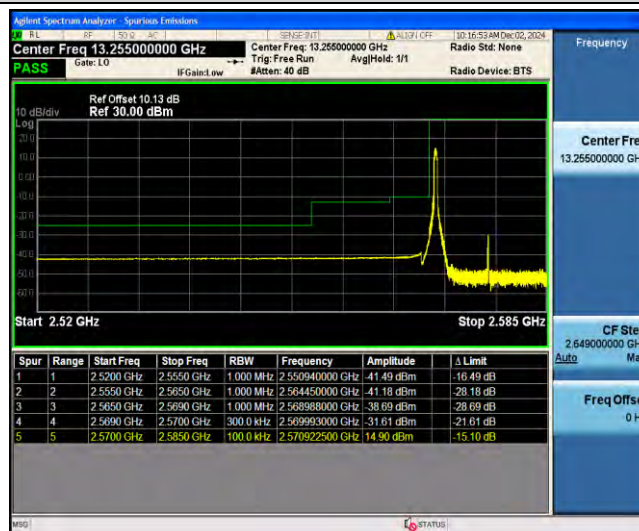
1-N38-PC3-30-10-H-6-CP-QPSK-Outer_Full-24@0-Ant3-2630.16-13.75--38.75-PASS



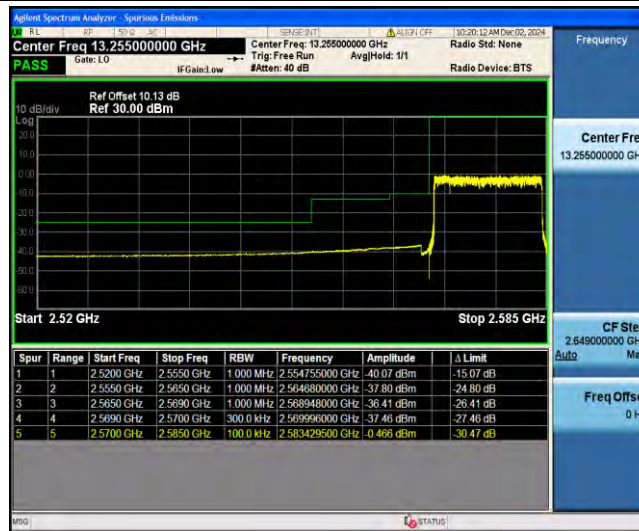
1-N38-PC3-30-15-L-1-DFT-QPSK-Edge_1RB_Left-1@0-Ant3-2551.29-16.62--41.62-PASS



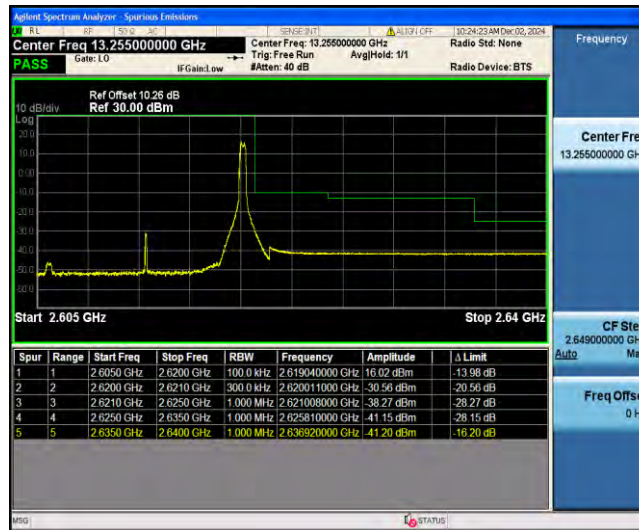
1-N38-PC3-30-15-L-3-DFT-QPSK-Outer_Full-36@0-Ant3-2549.09-15.53--40.53-PASS



1-N38-PC3-30-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant3-2550.94-16.49--41.49-PASS



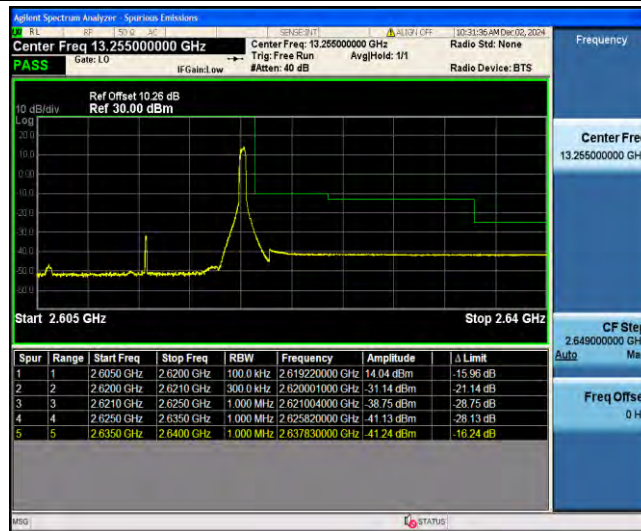
1-N38-PC3-30-15-L-6-CP-QPSK-Outer_Full-38@0-Ant3-2554.76-15.07--40.07-PASS



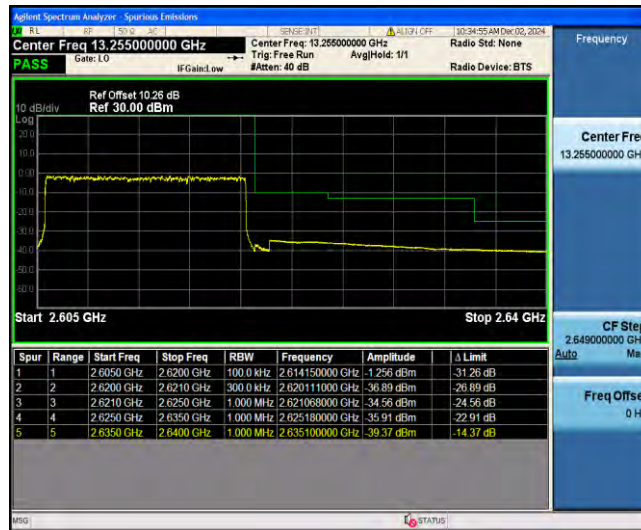
1-N38-PC3-30-15-H-2-DFT-QPSK-Edge_1RB_Right-1@37-Ant3-2636.92-16.20--41.20-PASS



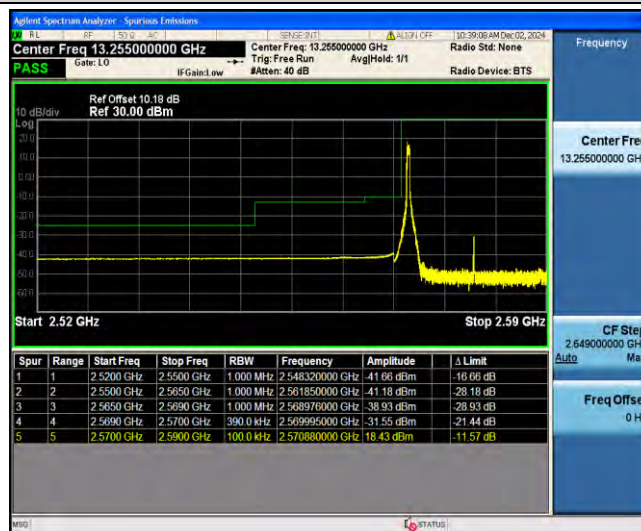
1-N38-PC3-30-15-H-3-DFT-QPSK-Outer_Full-36@0-Ant3-2638.48-14.83--39.83-PASS



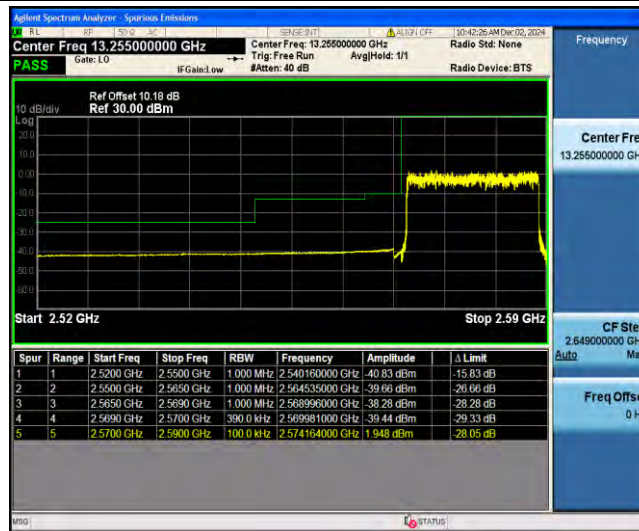
1-N38-PC3-30-15-H-5-CP-QPSK-Edge_1RB_Right-1@37-Ant3-2637.83-16.24--41.24-PASS



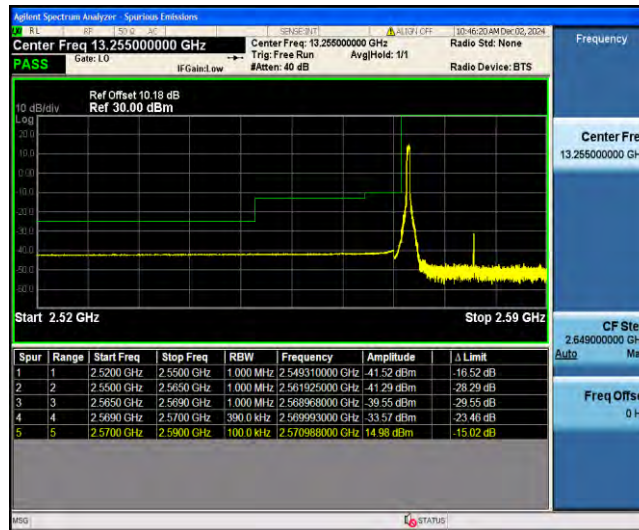
1-N38-PC3-30-15-H-6-CP-QPSK-Outer_Full-38@0-Ant3-2635.10-14.37--39.37-PASS



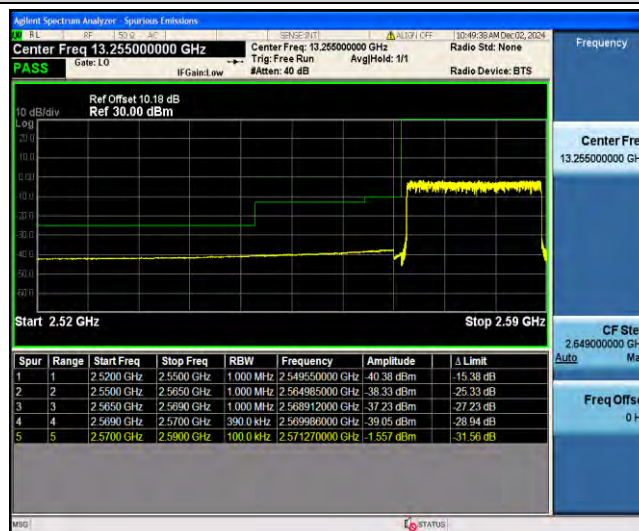
1-N38-PC3-30-20-L-1-DFT-QPSK-Edge_1RB_Left-1@0-Ant3-2548.32-16.66--41.66-PASS



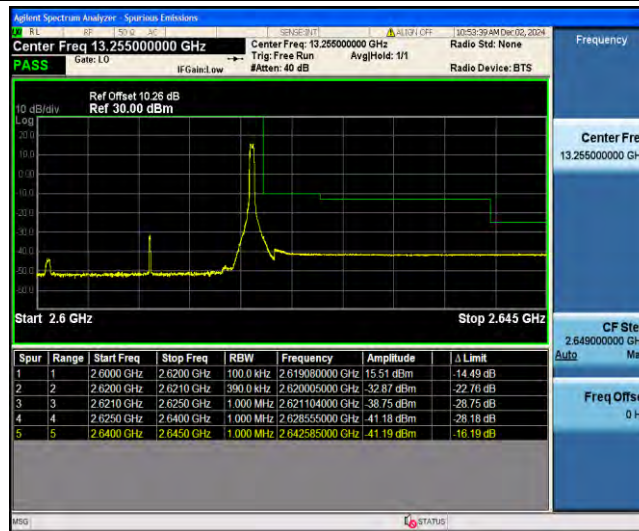
1-N38-PC3-30-20-L-3-DFT-QPSK-Outer_Full-50@0-Ant3-2540.16-15.83--40.83-PASS



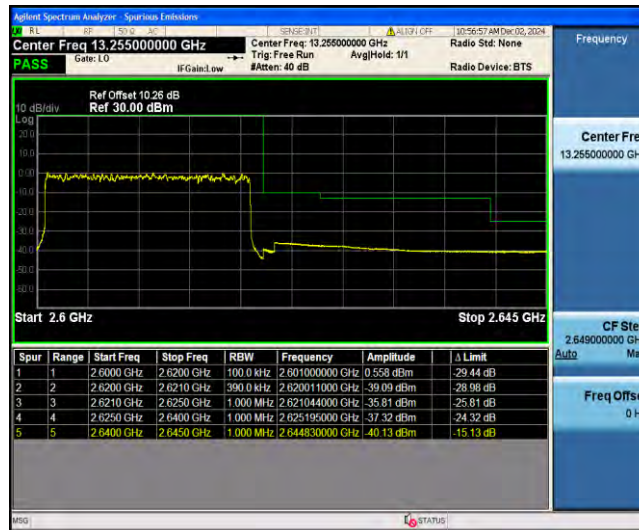
1-N38-PC3-30-20-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant3-2549.31-16.52--41.52-PASS



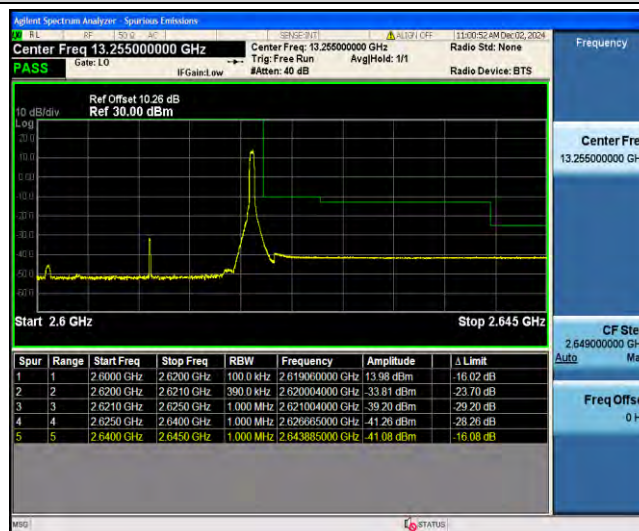
1-N38-PC3-30-20-L-6-CP-QPSK-Outer_Full-51@0-Ant3-2549.55-15.38--40.38-PASS



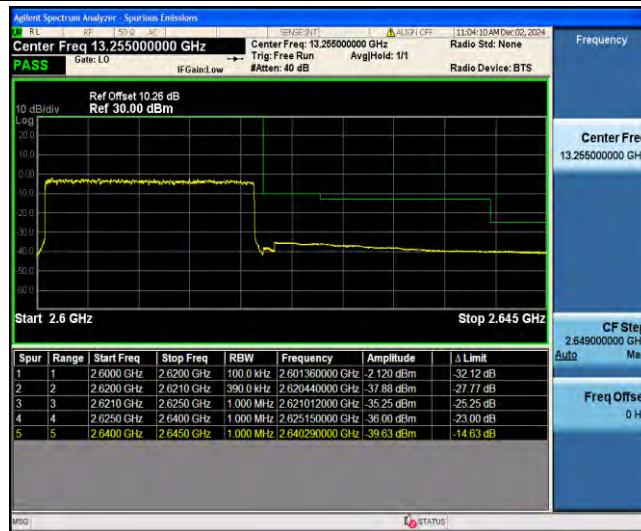
1-N38-PC3-30-20-H-2-DFT-QPSK-Edge_1RB_Right-1@50-Ant3-2642.59-16.19--41.19-PASS



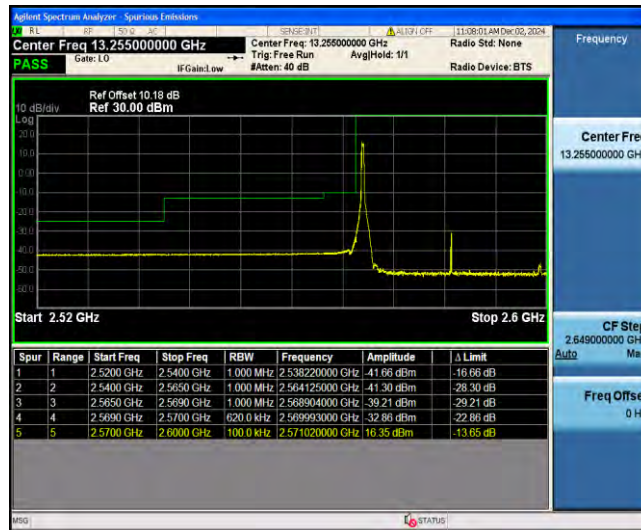
1-N38-PC3-30-20-H-3-DFT-QPSK-Outer_Full-50@0-Ant3-2644.83-15.13--40.13-PASS



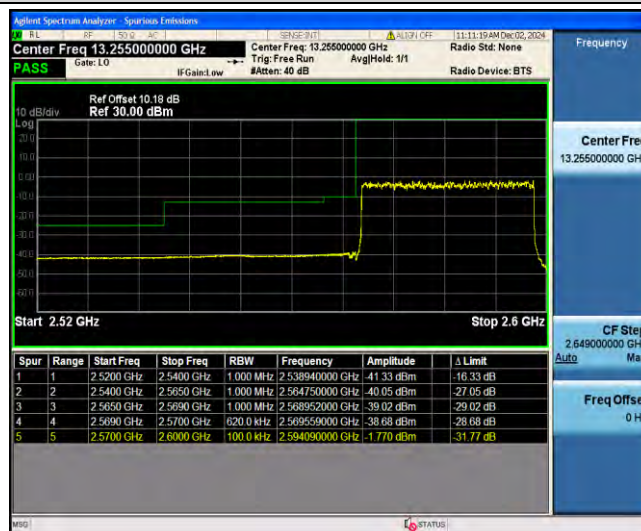
1-N38-PC3-30-20-H-5-CP-QPSK-Edge_1RB_Right-1@50-Ant3-2643.89-16.08--41.08-PASS



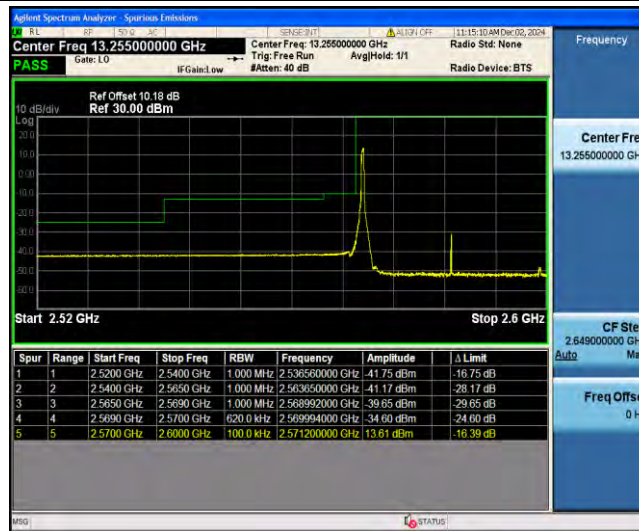
1-N38-PC3-30-20-H-6-CP-QPSK-Outer_Full-51@0-Ant3-2640.29-14.63--39.63-PASS



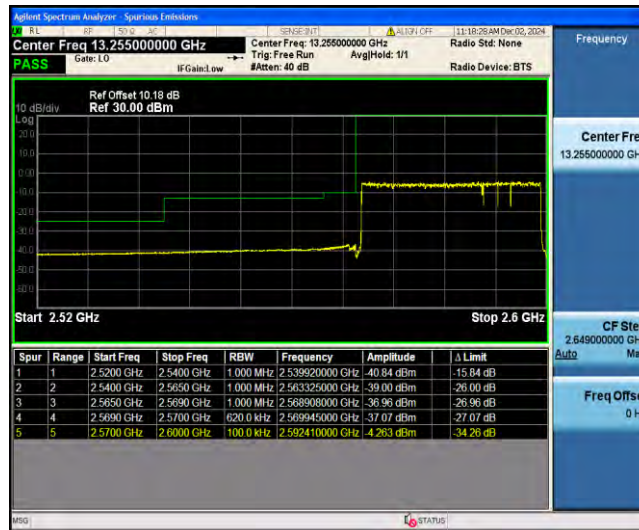
1-N38-PC3-30-30-L-1-DFT-QPSK-Edge_1RB_Left-1@0-Ant3-2538.22-16.66--41.66-PASS



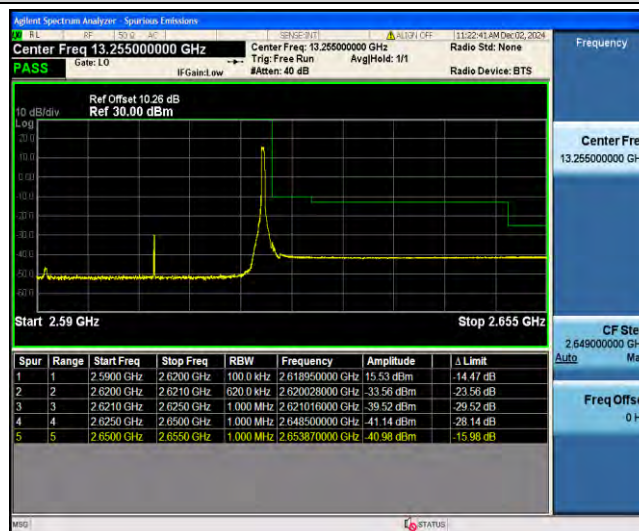
1-N38-PC3-30-30-L-3-DFT-QPSK-Outer_Full-75@0-Ant3-2538.94-16.33--41.33-PASS



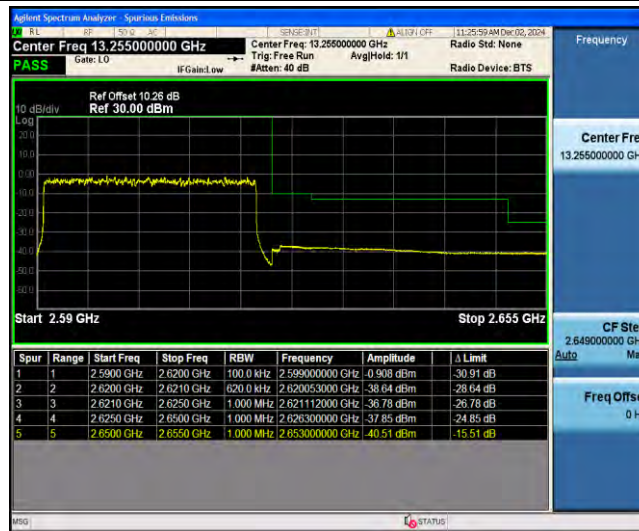
1-N38-PC3-30-30-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant3-2536.56-16.75--41.75-PASS



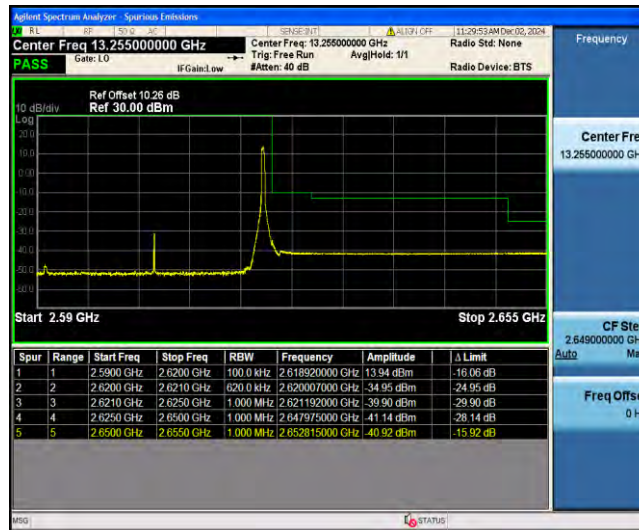
1-N38-PC3-30-30-L-6-CP-QPSK-Outer_Full-78@0-Ant3-2539.92-15.84--40.84-PASS



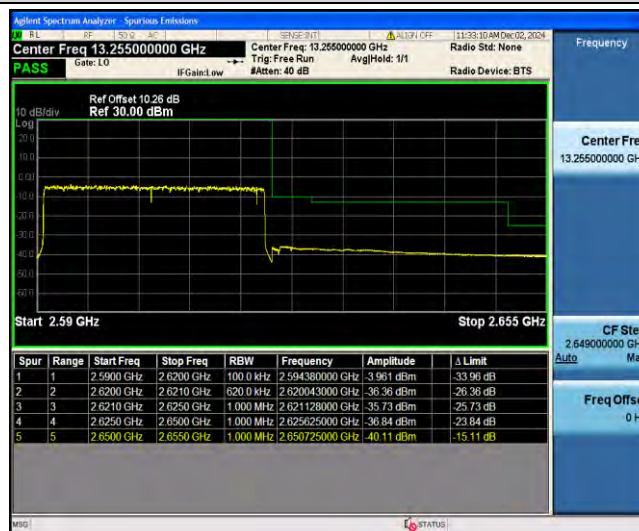
1-N38-PC3-30-30-H-2-DFT-QPSK-Edge_1RB_Right-1@77-Ant3-2653.87-15.98--40.98-PASS



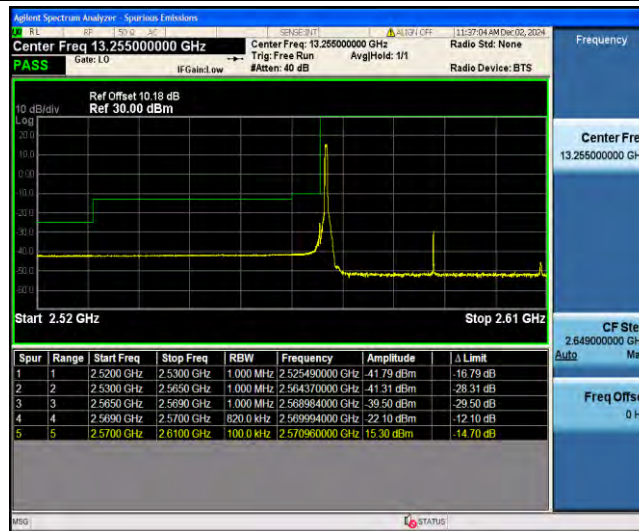
1-N38-PC3-30-30-H-3-DFT-QPSK-Outer_Full-75@0-Ant3-2653.00-15.51--40.51-PASS



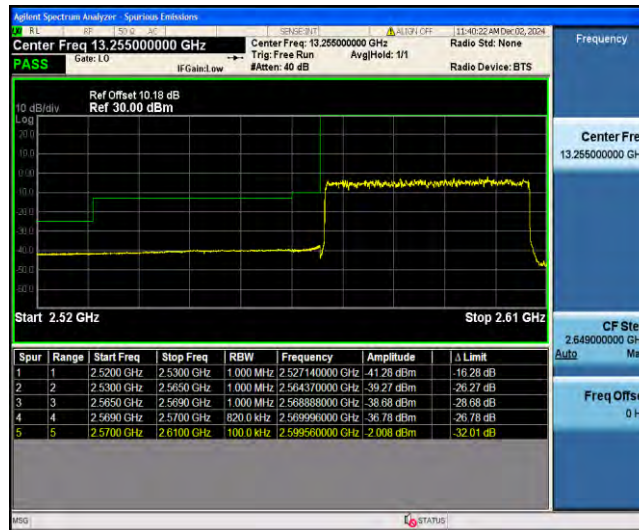
1-N38-PC3-30-30-H-5-CP-QPSK-Edge_1RB_Right-1@77-Ant3-2652.82-15.92--40.92-PASS



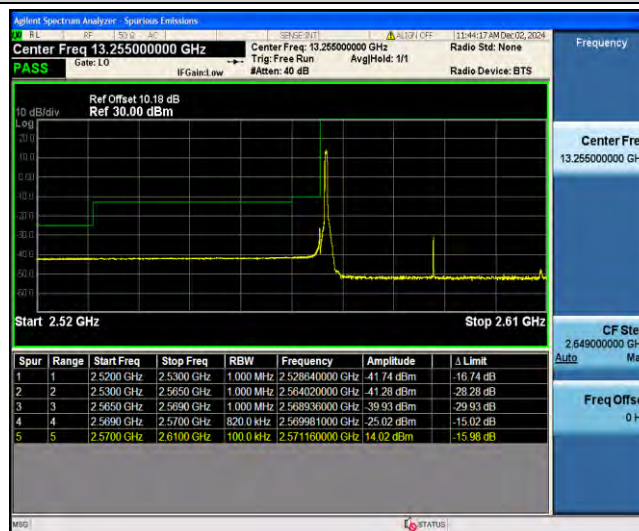
1-N38-PC3-30-30-H-6-CP-QPSK-Outer_Full-78@0-Ant3-2650.73-15.11--40.11-PASS



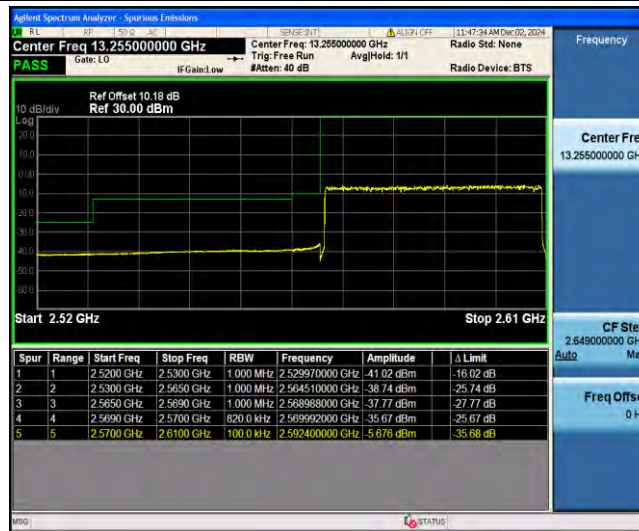
1-N38-PC3-30-40-L-1-DFT-QPSK-Edge_1RB_Left-1@0-Ant3-2569.99-12.10--22.10-PASS



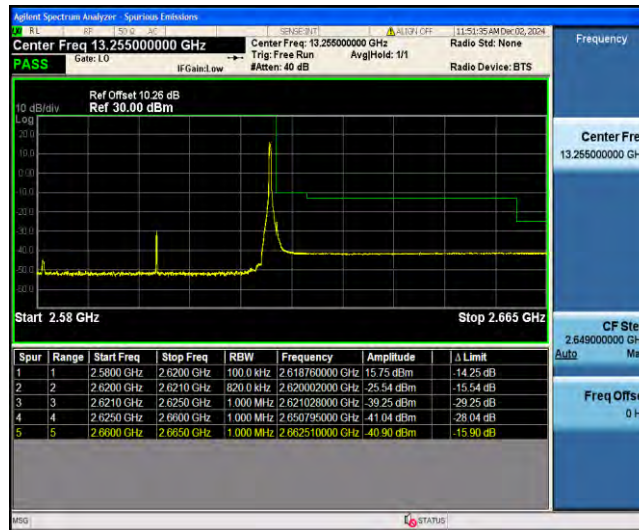
1-N38-PC3-30-40-L-3-DFT-QPSK-Outer_Full-100@0-Ant3-2527.14-16.28--41.28-PASS



1-N38-PC3-30-40-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant3-2569.98-15.02--25.02-PASS



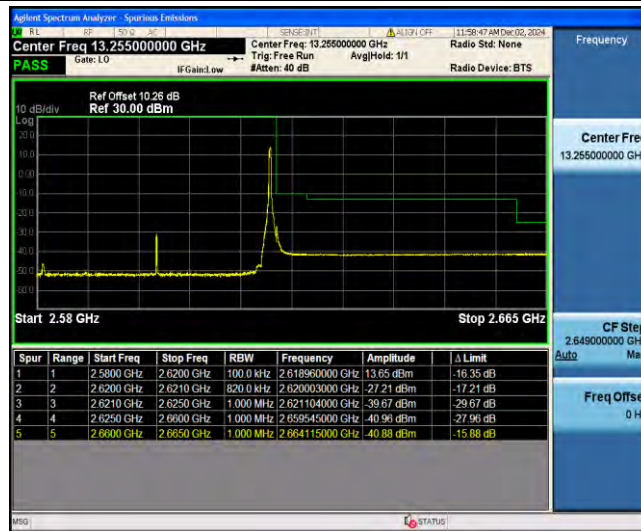
1-N38-PC3-30-40-L-6-CP-QPSK-Outer_Full-106@0-Ant3-2529.97-16.02--41.02-PASS



1-N38-PC3-30-40-H-2-DFT-QPSK-Edge_1RB_Right-1@105-Ant3-2620.00-15.54--25.54-PASS



1-N38-PC3-30-40-H-3-DFT-QPSK-Outer_Full-100@0-Ant3-2661.77-15.56--40.56-PASS



1-N38-PC3-30-40-H-5-CP-QPSK-Edge_1RB_Right-1@105-Ant3-2664.12-15.88--40.88-PASS



1-N38-PC3-30-40-H-6-CP-QPSK-Outer_Full-106@0-Ant3-2660.63-15.33--40.33-PASS

Conducted Spurious Emission for SA

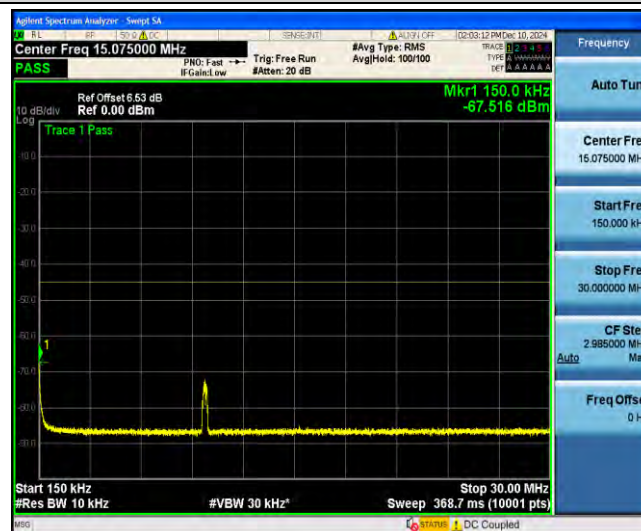
Test Result

Band	SCS	Bandwidth	Modulation	Channel	StartFreq	StopFreq	RB Config	Result (dBm)	Limit (dBm)	Verdict
N38	30	40	DFT-QPSK	L	0.009	0.15	1@0	-66.30	-55	PASS
N38	30	40	DFT-QPSK	L	0.15	30	1@0	-67.52	-45	PASS
N38	30	40	DFT-QPSK	L	30	1000	1@0	-56.32	-35	PASS
N38	30	40	DFT-QPSK	L	1000	3000	1@0	-57.92	-25	PASS
N38	30	40	DFT-QPSK	L	3000	12000	1@0	-47.12	-25	PASS
N38	30	40	DFT-QPSK	L	12000	26500	1@0	-35.32	-25	PASS
N38	30	40	DFT-QPSK	M	0.009	0.15	1@0	-66.28	-55	PASS
N38	30	40	DFT-QPSK	M	0.15	30	1@0	-67.50	-45	PASS
N38	30	40	DFT-QPSK	M	30	1000	1@0	-56.30	-35	PASS
N38	30	40	DFT-QPSK	M	1000	3000	1@0	-57.97	-25	PASS
N38	30	40	DFT-QPSK	M	3000	12000	1@0	-47.15	-25	PASS
N38	30	40	DFT-QPSK	M	12000	26500	1@0	-35.32	-25	PASS
N38	30	40	DFT-QPSK	H	0.009	0.15	1@0	-65.87	-55	PASS
N38	30	40	DFT-QPSK	H	0.15	30	1@0	-67.50	-45	PASS
N38	30	40	DFT-QPSK	H	30	1000	1@0	-56.41	-35	PASS
N38	30	40	DFT-QPSK	H	1000	3000	1@0	-57.96	-25	PASS
N38	30	40	DFT-QPSK	H	3000	12000	1@0	-47.01	-25	PASS
N38	30	40	DFT-QPSK	H	12000	26500	1@0	-35.23	-25	PASS

Test Graphs



1-N38-PC3-30-40-L-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-0.009-0.15-Ant3-0.01--66.30--55-PASS



1-N38-PC3-30-40-L-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-0.15-30-Ant3-0.15--67.52--45-PASS



1-N38-PC3-30-40-L-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-30-1000-Ant3-880.69--56.32--35-PASS



1-N38-PC3-30-40-L-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-1000-3000-Ant3-2672.40--57.92--25-PASS



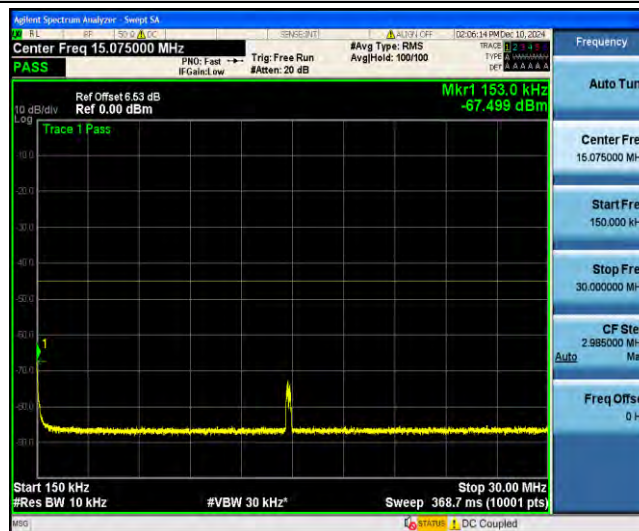
1-N38-PC3-30-40-L-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-3000-12000-Ant3-5448.45--47.12--25-PASS



1-N38-PC3-30-40-L-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-12000-26500-Ant3-26200.58--35.32--25-PA



1-N38-PC3-30-40-M-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-0.009-0.15-Ant3-0.01--66.28--55-PASS



1-N38-PC3-30-40-M-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-0.15-30-Ant3-0.15--67.50--45-PASS



1-N38-PC3-30-40-M-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-30-1000-Ant3-909.69--56.30--35-PASS



1-N38-PC3-30-40-M-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-1000-3000-Ant3-2666.40--57.97--25-PASS



1-N38-PC3-30-40-M-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-3000-12000-Ant3-5880.00--47.15--25-PAS

S



1-N38-PC3-30-40-M-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-12000-26500-Ant3-25701.05--35.32--25-PA

SS



1-N38-PC3-30-40-H-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-0.009-0.15-Ant3-0.01--65.87--55-PASS



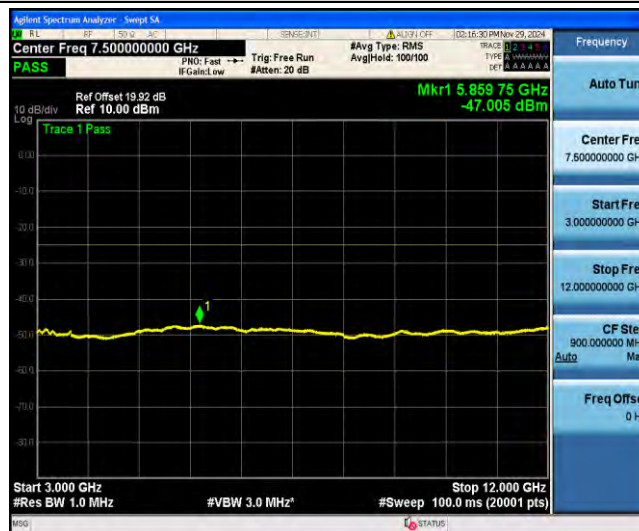
1-N38-PC3-30-40-H-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-0.15-30-Ant3-0.15--67.50--45-PASS



1-N38-PC3-30-40-H-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-30-1000-Ant3-888.74--56.41--35-PASS



1-N38-PC3-30-40-H-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-1000-3000-Ant3-2668.80--57.96--25-PASS



1-N38-PC3-30-40-H-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-3000-12000-Ant3-5859.75--47.01--25-PASS



1-N38-PC3-30-40-H-1-NS_01-DFT-QPSK-Edge_1RB_Left-1@0-12000-26500-Ant3-25733.68--35.23--25-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
N38	30	40	DFT-QPSK	M	100@0	NV	NT	-6.76	-0.00261	PASS
N38	30	40	DFT-QPSK	M	100@0	LV	NT	-8.36	-0.00322	PASS
N38	30	40	DFT-QPSK	M	100@0	HV	NT	-10.10	-0.00389	PASS
N38	30	40	CP-QPSK	M	106@0	NV	NT	-5.36	-0.00207	PASS
N38	30	40	CP-QPSK	M	106@0	LV	NT	-6.06	-0.00234	PASS
N38	30	40	CP-QPSK	M	106@0	HV	NT	-10.10	-0.00389	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature(℃)	Deviation(Hz)	Deviation (ppm)	Verdict
N38	30	40	DFT-QPSK	M	100@0	NV	-20	-9.235000	-0.003559	PASS
N38	30	40	DFT-QPSK	M	100@0	NV	50	-5.783000	-0.002229	PASS
N38	30	40	DFT-QPSK	M	100@0	NV	40	-5.423000	-0.002090	PASS
N38	30	40	DFT-QPSK	M	100@0	NV	10	-5.560000	-0.002143	PASS
N38	30	40	DFT-QPSK	M	100@0	NV	-10	-5.642000	-0.002174	PASS
N38	30	40	DFT-QPSK	M	100@0	NV	-30	-5.171000	-0.001993	PASS
N38	30	40	DFT-QPSK	M	100@0	NV	30	-5.054000	-0.001948	PASS
N38	30	40	DFT-QPSK	M	100@0	NV	0	-7.225000	-0.002784	PASS
N38	30	40	DFT-QPSK	M	100@0	NV	20	-8.294000	-0.003196	PASS
N38	30	40	CP-QPSK	M	106@0	NV	0	-6.737000	-0.002596	PASS
N38	30	40	CP-QPSK	M	106@0	NV	10	-7.792000	-0.003003	PASS
N38	30	40	CP-QPSK	M	106@0	NV	-10	-2.517000	-0.000970	PASS
N38	30	40	CP-QPSK	M	106@0	NV	-20	-5.249000	-0.002023	PASS
N38	30	40	CP-QPSK	M	106@0	NV	50	-7.470000	-0.002879	PASS
N38	30	40	CP-QPSK	M	106@0	NV	30	-5.253000	-0.002024	PASS
N38	30	40	CP-QPSK	M	106@0	NV	-30	-8.695000	-0.003351	PASS
N38	30	40	CP-QPSK	M	106@0	NV	40	-4.848000	-0.001868	PASS
N38	30	40	CP-QPSK	M	106@0	NV	20	-6.352000	-0.002448	PASS

Field Strength of Spurious Radiation

NR N38 ANT5-Low channel, Modulation: QPSK, Bandwidth:40MHz, 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
5144.0	-62.91	-25	-37.91	-68.52	4.62	10.23	Horizontal	Pass
7716.0	-59.71	-25	-34.71	-66.74	4.96	11.99	Horizontal	Pass
10288.0	-56.89	-25	-31.89	-64.46	5.51	13.08	Horizontal	Pass
5144.0	-63.43	-25	-38.43	-69.04	4.62	10.23	Vertical	Pass
7716.0	-60.0	-25	-35.0	-67.03	4.96	11.99	Vertical	Pass
10288.0	-56.98	-25	-31.98	-64.55	5.51	13.08	Vertical	Pass

NR N38 ANT5-Middle channel, Modulation: QPSK, Bandwidth:40MHz, 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
5154.0	-63.47	-25	-38.47	-69.09	4.62	10.24	Horizontal	Pass
7731.0	-60.11	-25	-35.11	-67.16	4.96	12.01	Horizontal	Pass
10344.0	-57.16	-25	-32.16	-64.73	5.52	13.09	Horizontal	Pass
5154.0	-63.25	-25	-38.25	-68.87	4.62	10.24	Vertical	Pass
7731.0	-59.86	-25	-34.86	-66.91	4.96	12.01	Vertical	Pass
10344.0	-57.16	-25	-32.16	-64.73	5.52	13.09	Vertical	Pass

NR N38 ANT5-High channel, Modulation: QPSK, Bandwidth:40MHz, 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
5164.0	-62.45	-25	-37.45	-68.07	4.62	10.24	Horizontal	Pass
7746.0	-59.49	-25	-34.49	-66.56	4.96	12.03	Horizontal	Pass
10328.0	-56.45	-25	-31.45	-64.03	5.51	13.09	Horizontal	Pass
5164.0	-63.33	-25	-38.33	-68.95	4.62	10.24	Vertical	Pass
7746.0	-59.25	-25	-34.25	-66.32	4.96	12.03	Vertical	Pass
10328.0	-56.49	-25	-31.49	-64.07	5.51	13.09	Vertical	Pass

NSA_4A_n38A-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5144.0	-63.46	-25	-38.46	-69.07	4.62	10.23	Horizontal	Pass
7716.0	-59.47	-25	-34.47	-66.5	4.96	11.99	Horizontal	Pass
10288.0	-56.43	-25	-31.43	-64.0	5.51	13.08	Horizontal	Pass
5144.0	-63.53	-25	-38.53	-69.14	4.62	10.23	Vertical	Pass
7716.0	-59.98	-25	-34.98	-67.01	4.96	11.99	Vertical	Pass
10288.0	-56.35	-25	-31.35	-63.92	5.51	13.08	Vertical	Pass

NSA_4A_n38A-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
5154.0	-63.0	-25	-38.0	-68.62	4.62	10.24	Horizontal	Pass
7731.0	-58.26	-25	-33.26	-65.31	4.96	12.01	Horizontal	Pass
10344.0	-56.34	-25	-31.34	-63.91	5.52	13.09	Horizontal	Pass
5154.0	-63.1	-25	-38.1	-68.72	4.62	10.24	Vertical	Pass
7731.0	-59.46	-25	-34.46	-66.51	4.96	12.01	Vertical	Pass
10344.0	-56.24	-25	-31.24	-63.81	5.52	13.09	Vertical	Pass

NSA_4A_n38A-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5164.0	-63.16	-25	-38.16	-68.78	4.62	10.24	Horizontal	Pass
7746.0	-59.07	-25	-34.07	-66.14	4.96	12.03	Horizontal	Pass
10328.0	-56.74	-25	-31.74	-64.32	5.51	13.09	Horizontal	Pass
5164.0	-63.09	-25	-38.09	-68.71	4.62	10.24	Vertical	Pass
7746.0	-59.29	-25	-34.29	-66.36	4.96	12.03	Vertical	Pass
10328.0	-56.85	-25	-31.85	-64.43	5.51	13.09	Vertical	Pass