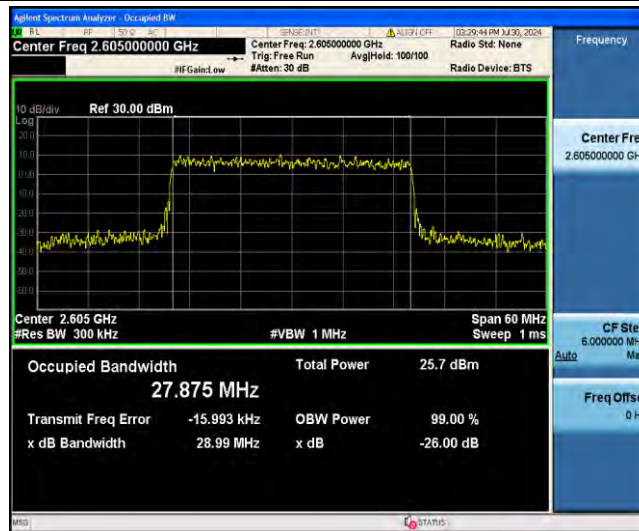
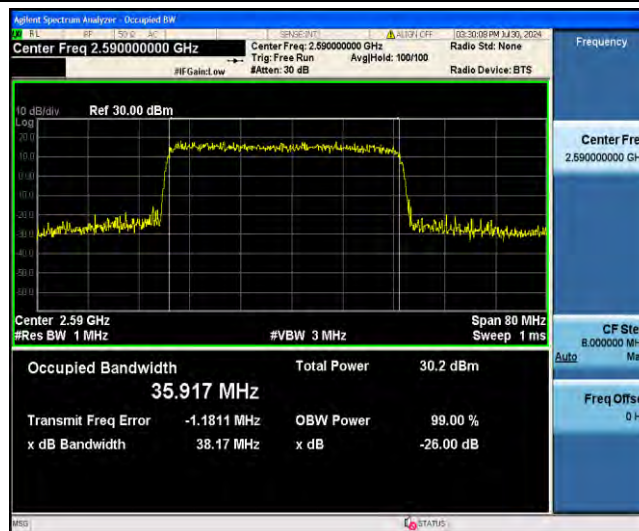




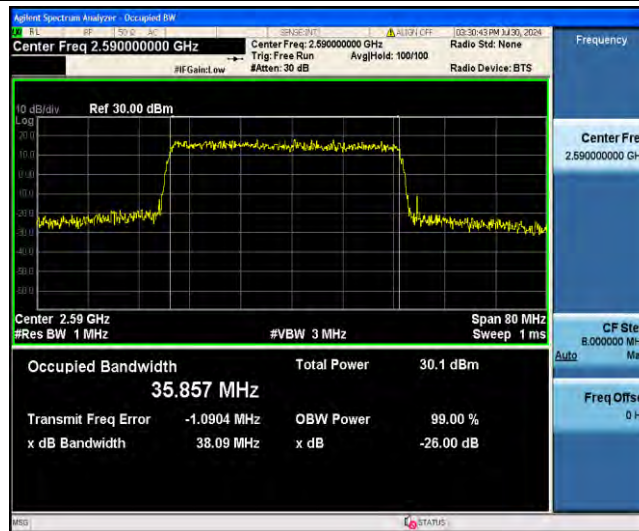
1-N38-PC3-30-30-H-9-CP-256QAM-Outer_Full-78@0-Ant1-27.875-28.99-≤30-PASS



1-N38-PC3-30-40-L-1-DFT-QPSK-Outer_Full-100@0-Ant1-35.917-38.17-≤40-PASS



1-N38-PC3-30-40-L-2-DFT-PI2BPSK-Outer_Full-100@0-Ant1-35.991-38.41-≤40-PASS



1-N38-PC3-30-40-L-3-DFT-16QAM-Outer_Full-100@0-Ant1-35.857-38.09-≤40-PASS



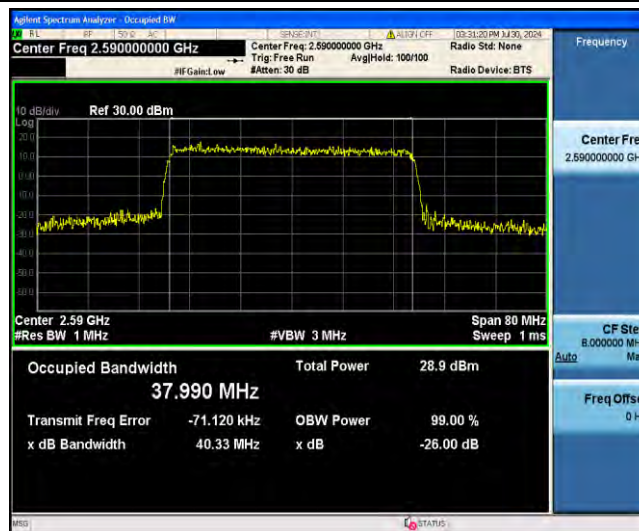
1-N38-PC3-30-40-L-4-DFT-64QAM-Outer_Full-100@0-Ant1-35.956-38.38-≤40-PASS



1-N38-PC3-30-40-L-5-DFT-256QAM-Outer_Full-100@0-Ant1-35.909-38.21-≤40-PASS



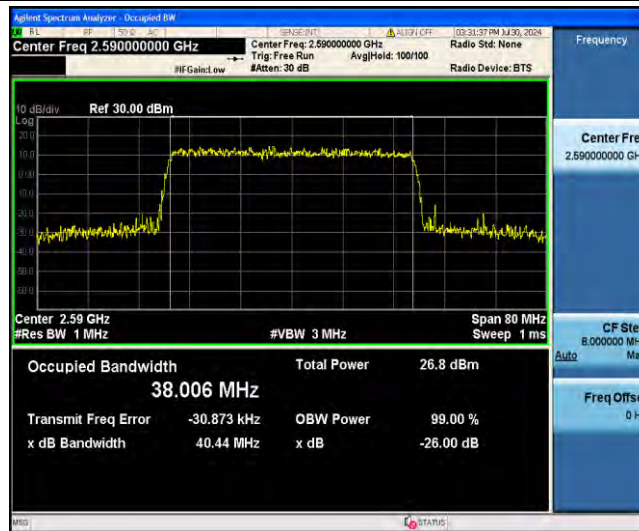
1-N38-PC3-30-40-L-6-CP-QPSK-Outer_Full-106@0-Ant1-38.026-40.26-≤40-PASS



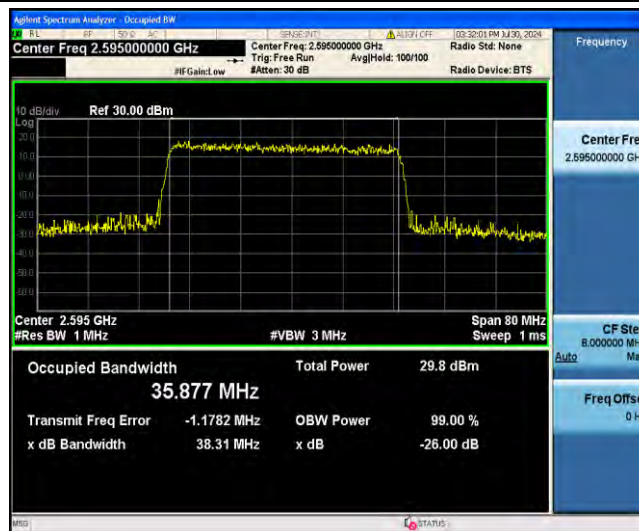
1-N38-PC3-30-40-L-7-CP-16QAM-Outer_Full-106@0-Ant1-37.990-40.33-≤40-PASS



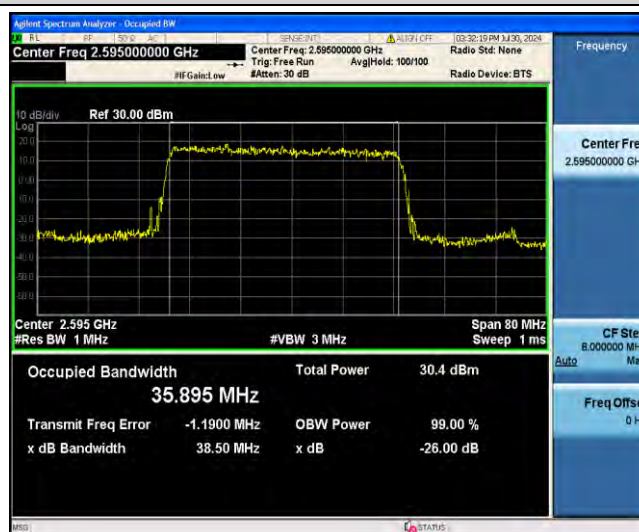
1-N38-PC3-30-40-L-8-CP-64QAM-Outer_Full-106@0-Ant1-38.099-40.50-≤40-PASS



1-N38-PC3-30-40-L-9-CP-256QAM-Outer_Full-106@0-Ant1-38.006-40.44≤40-PASS



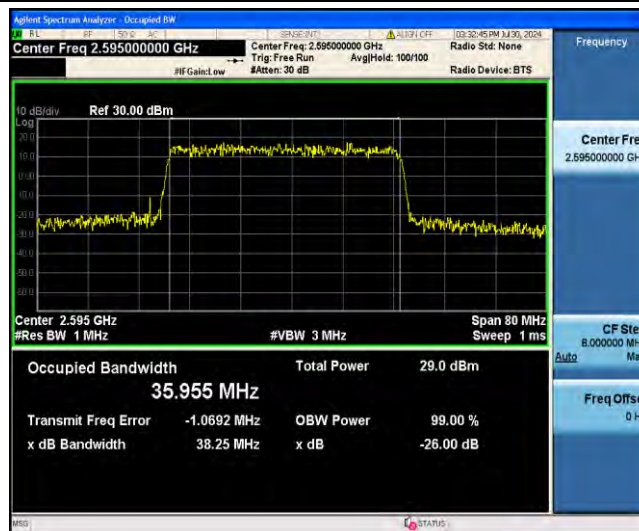
1-N38-PC3-30-40-M-1-DFT-QPSK-Outer_Full-100@0-Ant1-35.877-38.31≤40-PASS



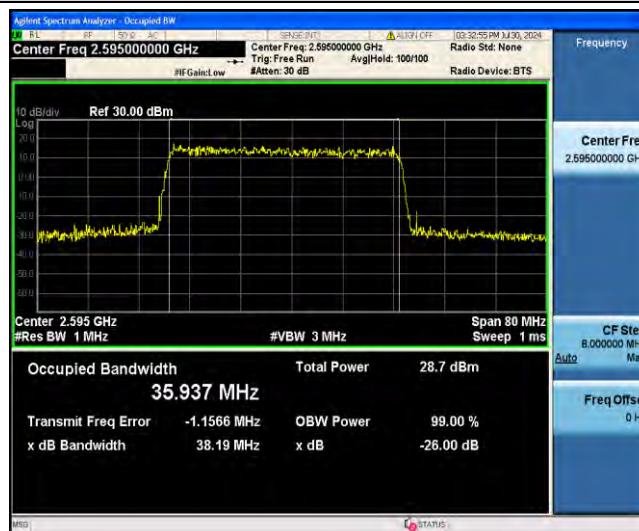
1-N38-PC3-30-40-M-2-DFT-PI2BPSK-Outer_Full-100@0-Ant1-35.895-38.50≤40-PASS



1-N38-PC3-30-40-M-3-DFT-16QAM-Outer_Full-100@0-Ant1-35.993-38.29-≤40-PASS



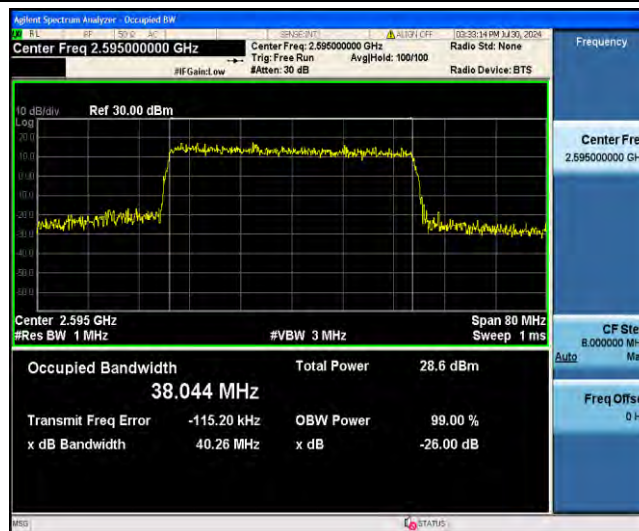
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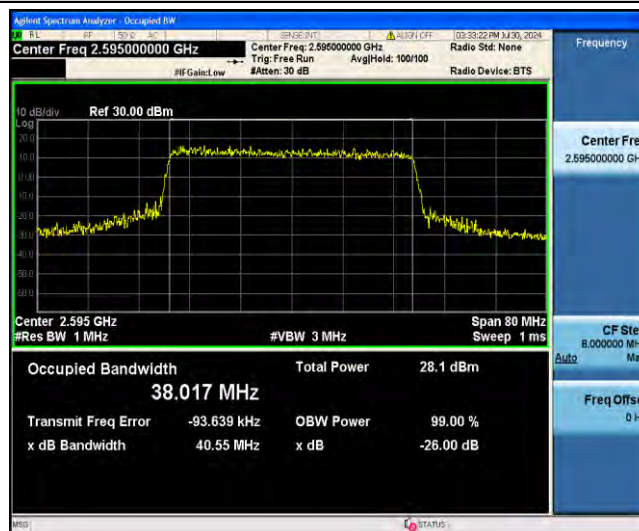
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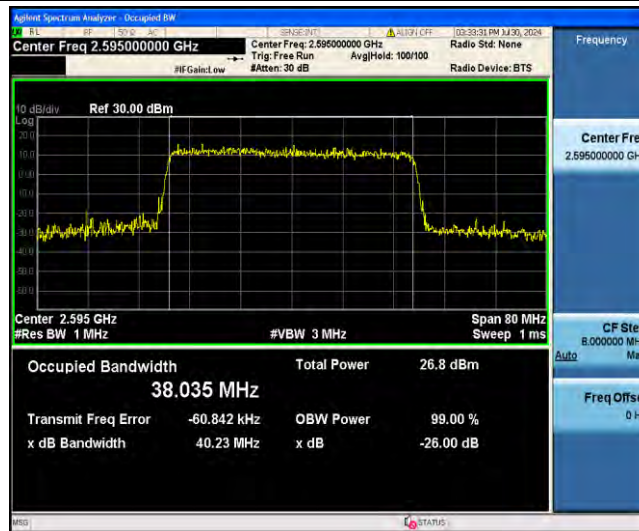
1-N38-PC3-30-40-M-6-CP-QPSK-Outer_Full-106@0-Ant1-38.080-40.48-≤40-PASS



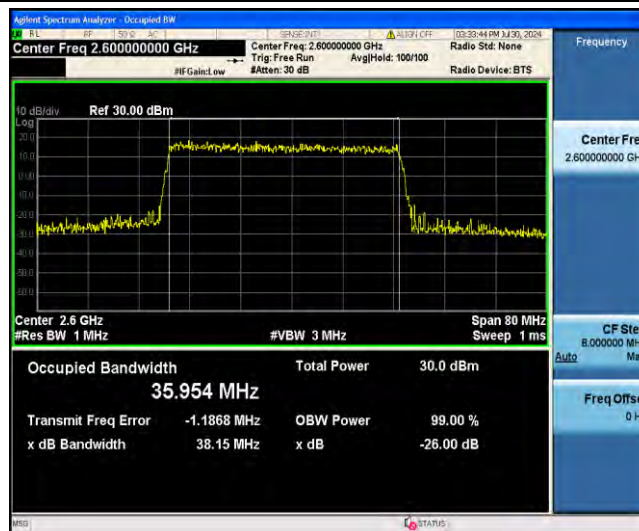
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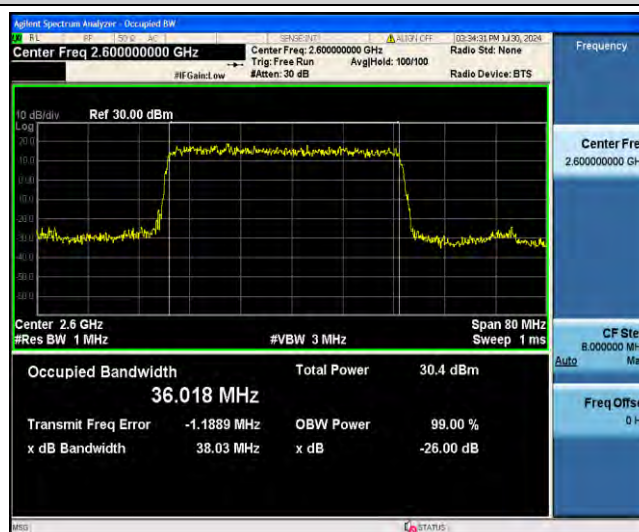
1-N38-PC3-30-40-M-8-CP-64QAM-Outer_Full-106@0-Ant1-38.017-40.55-≤40-PASS



1-N38-PC3-30-40-M-9-CP-256QAM-Outer_Full-106@0-Ant1-38.035-40.23-<40-PASS



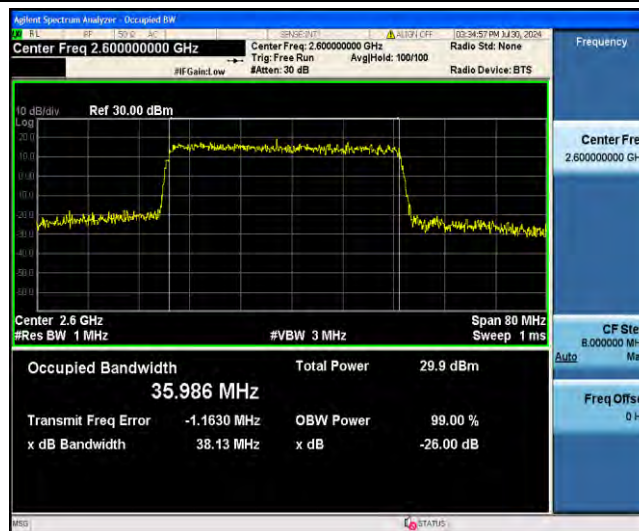
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1-N38-PC3-30-40-H-2-DFT-PI2BPSK-Outer_Full-100@0-Ant1-36.018-38.03-<40-PASS



1-N38-PC3-30-40-H-3-DFT-16QAM-Outer_Full-100@0-Ant1-36.000-39.44-≤40-PASS



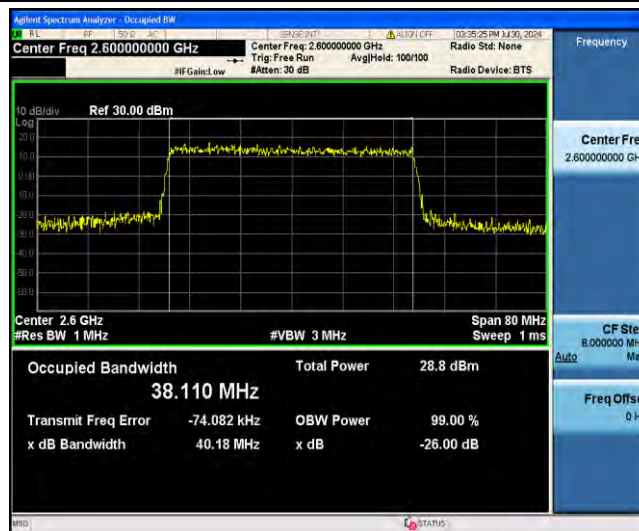
1-N38-PC3-30-40-H-4-DFT-64QAM-Outer_Full-100@0-Ant1-35.986-38.13-≤40-PASS



1-N38-PC3-30-40-H-5-DFT-256QAM-Outer_Full-100@0-Ant1-35.902-38.18-≤40-PASS



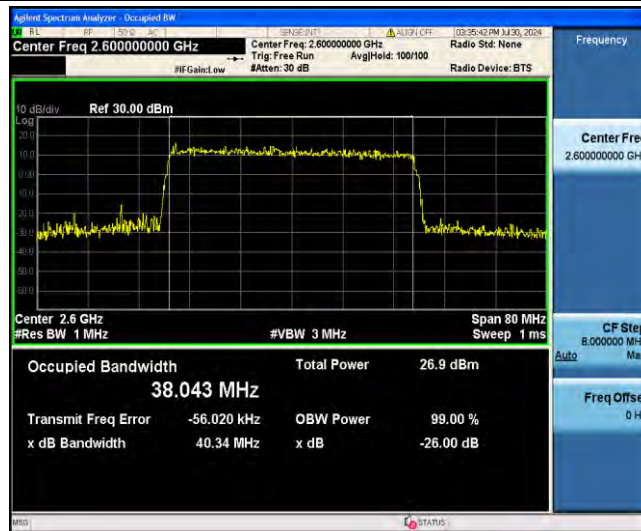
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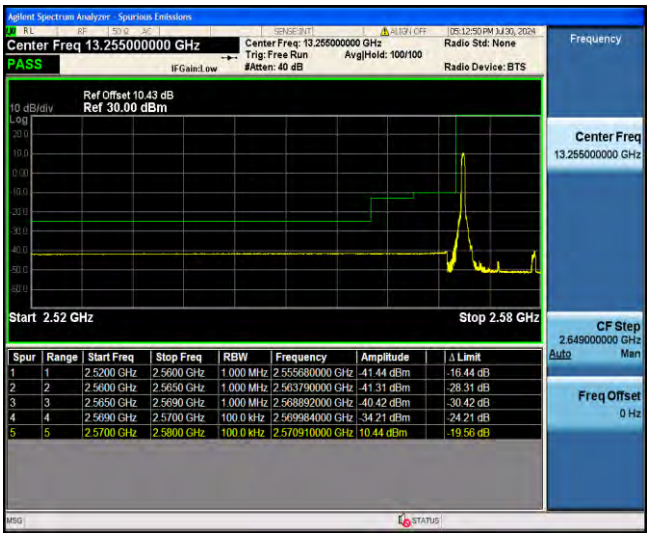
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1-N38-PC3-30-40-H-9-CP-256QAM-Outer_Full-106@0-Ant1-38.043-40.34-≤40-PASS

Band Edge for SA

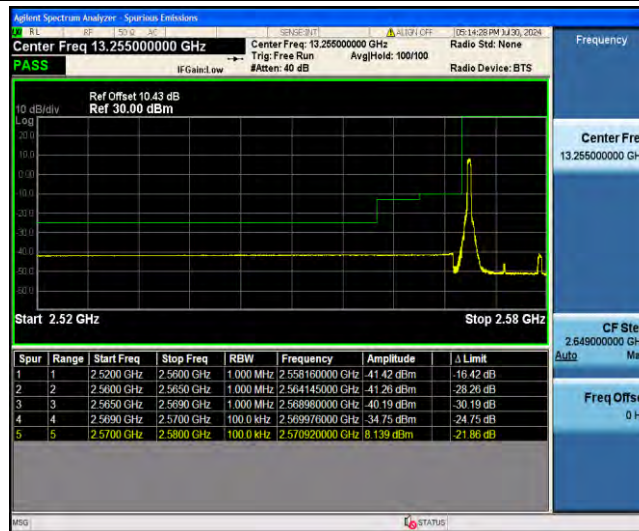
Test Graphs



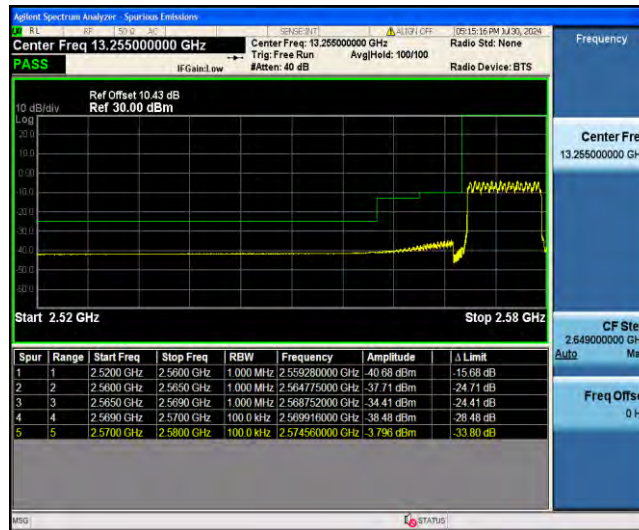
1-N38-PC3-30-10-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-2555.68-16.44--41.44-PASS



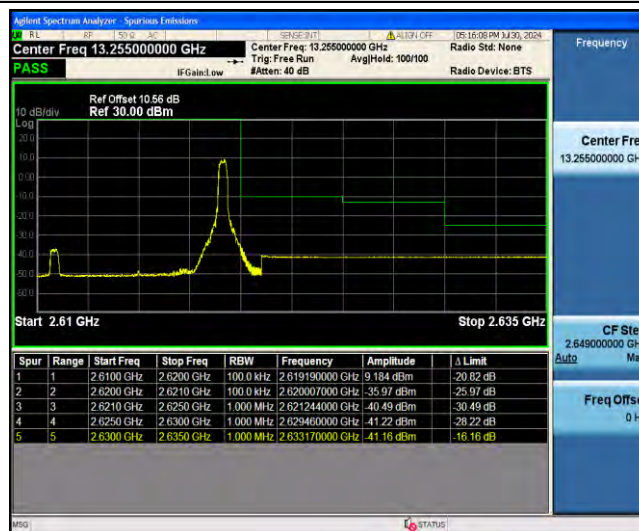
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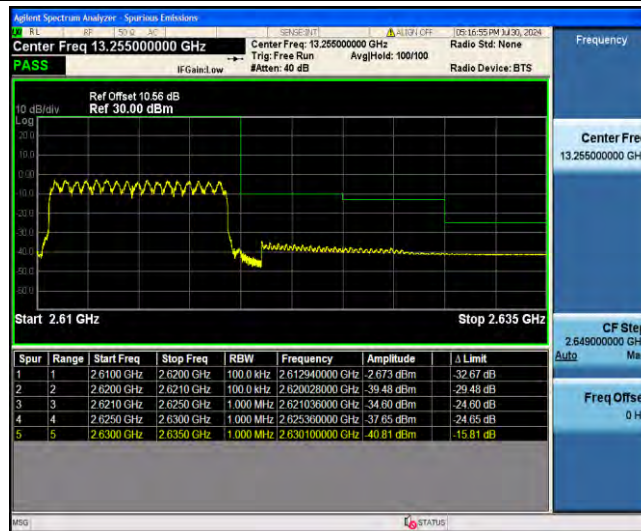
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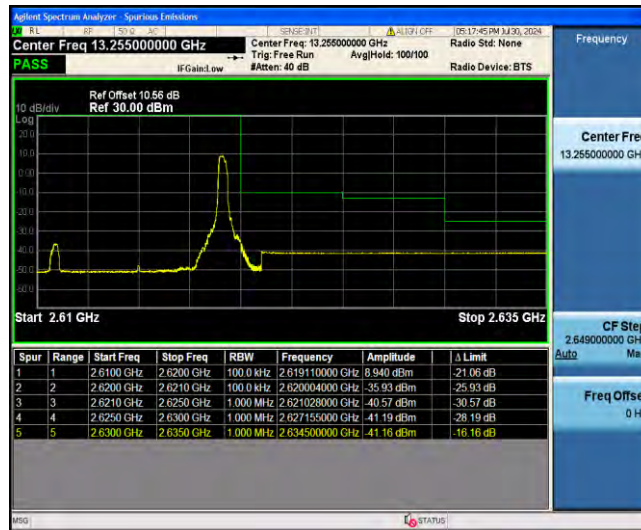
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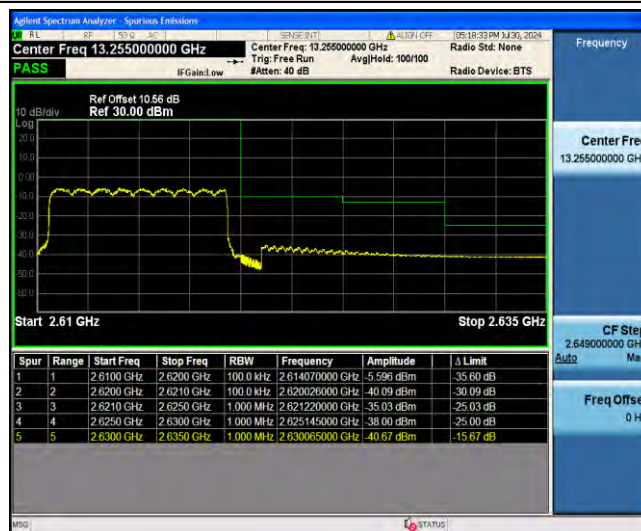
1-N38-PC3-30-10-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@23-Ant1-2633.17-16.16--41.16-PASS



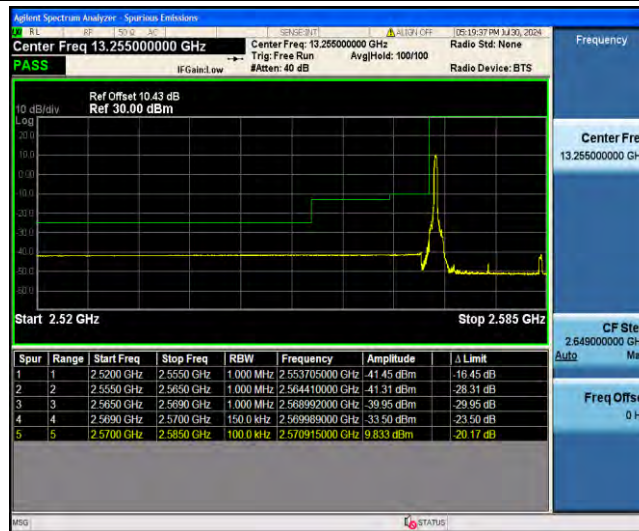
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1-N38-PC3-30-10-H-5-CP-QPSK-Edge_1RB_Right-1@23-Ant1-2634.50-16.16--41.16-PASS



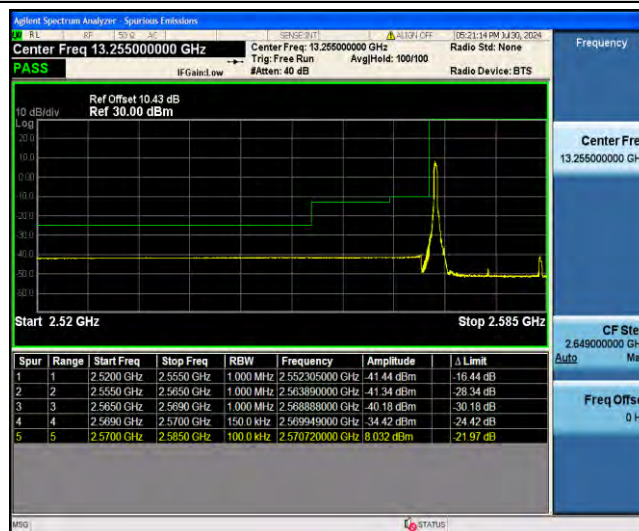
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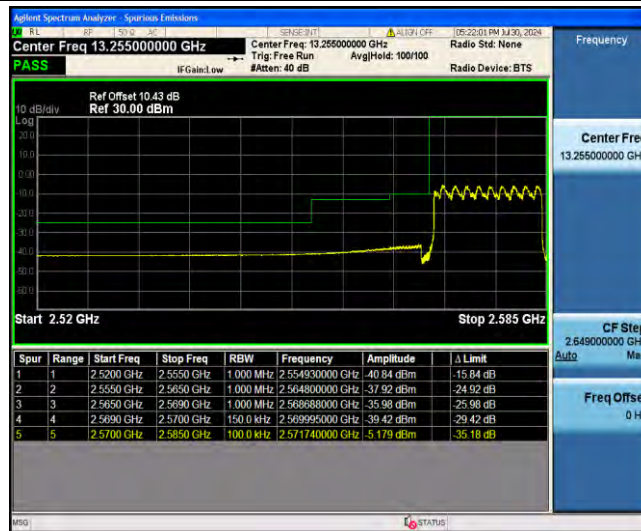
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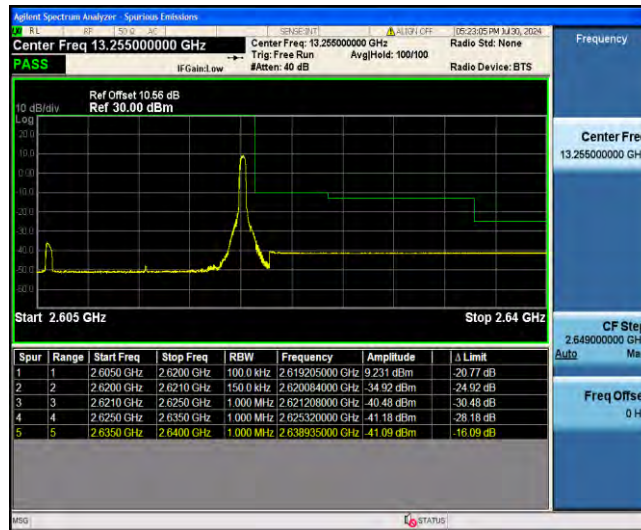
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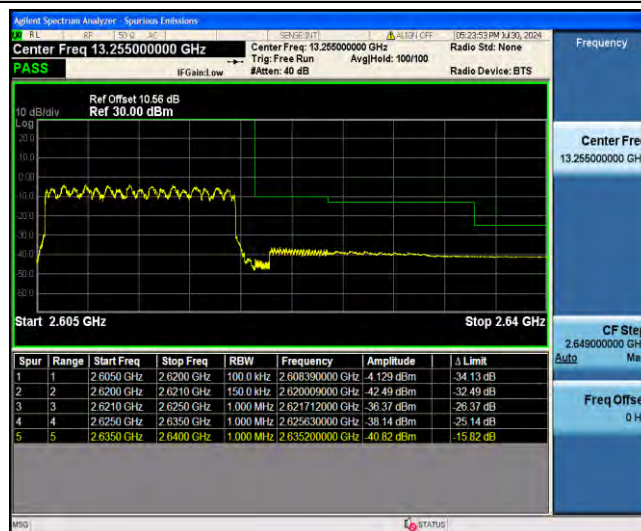
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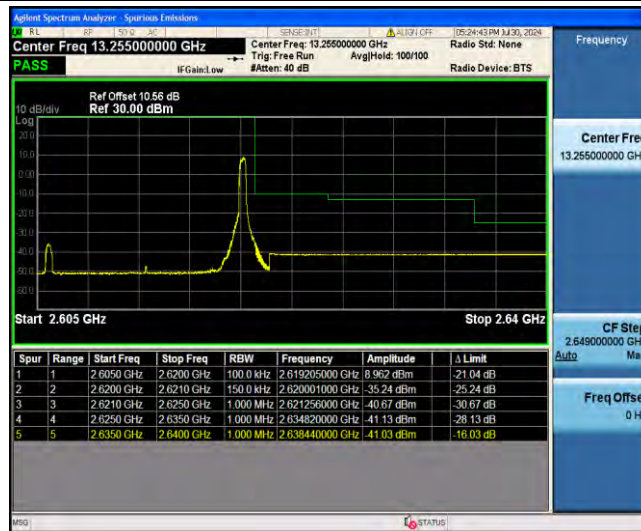
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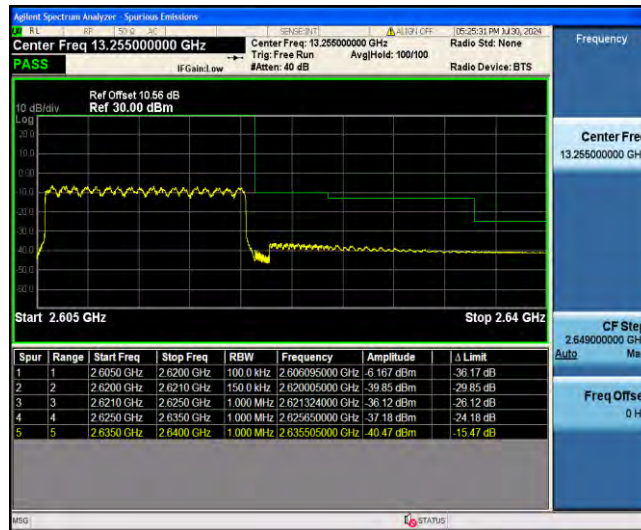
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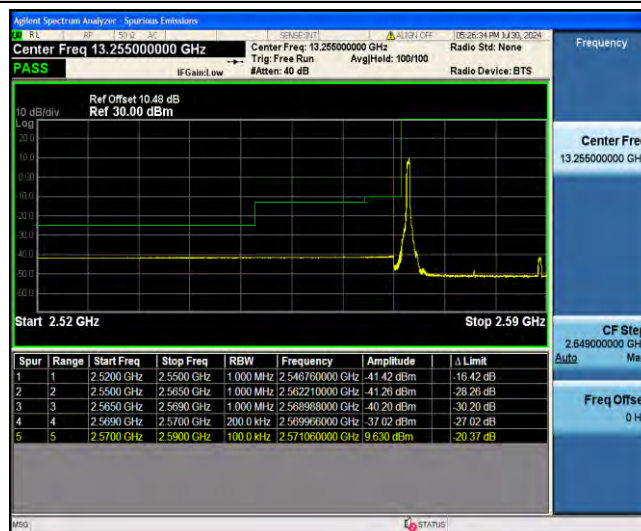
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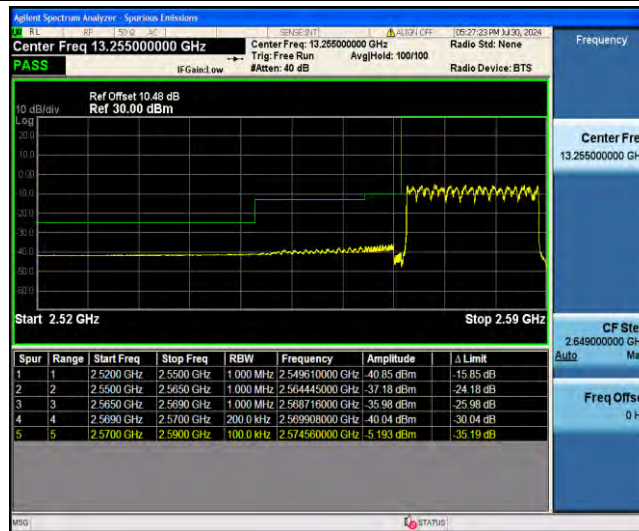
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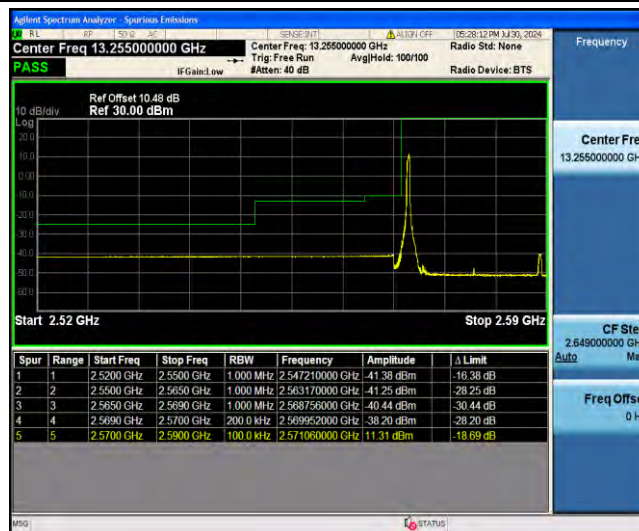
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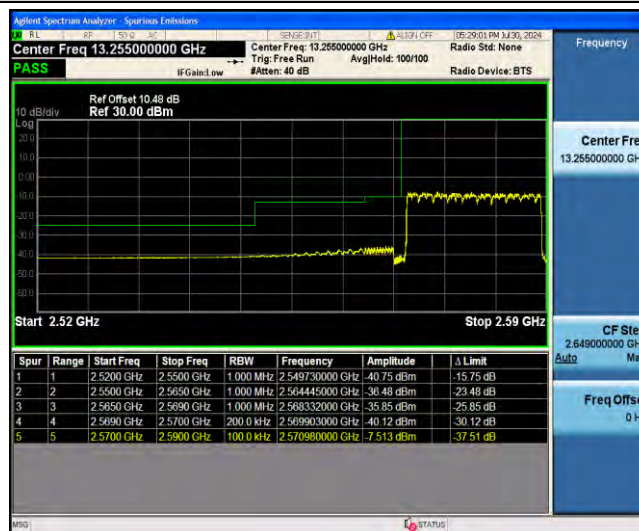
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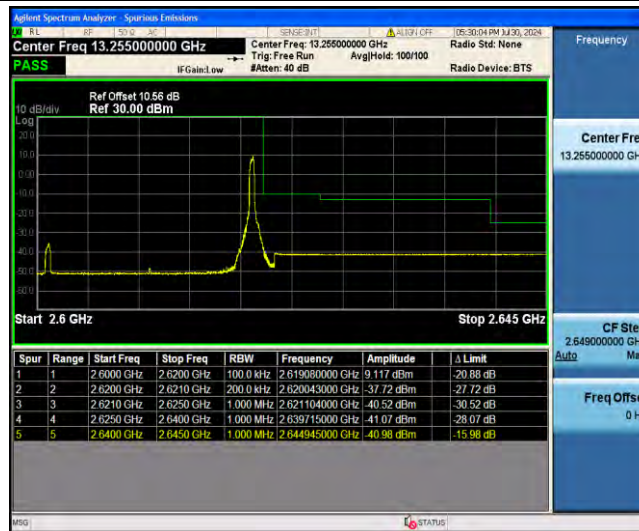
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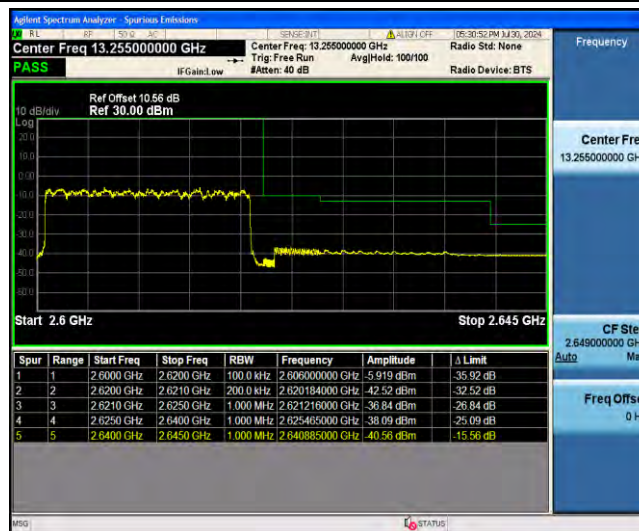
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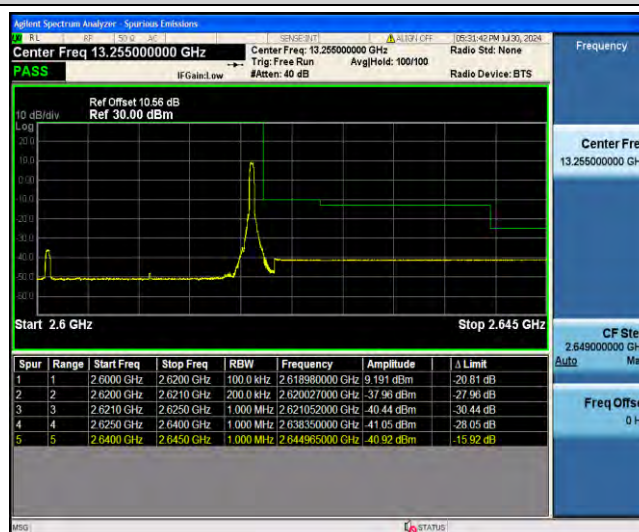
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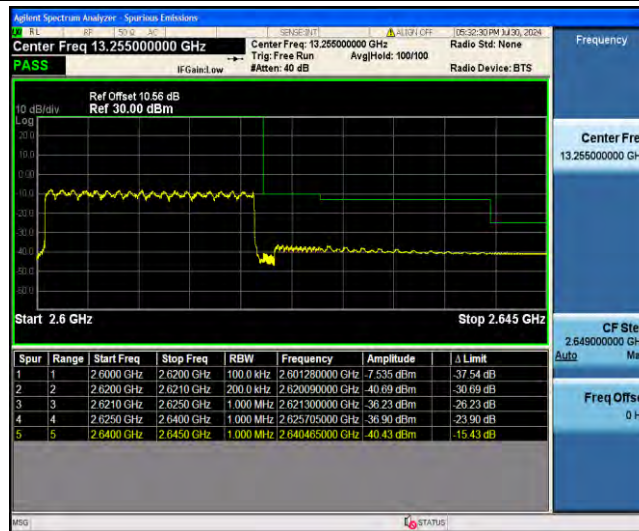
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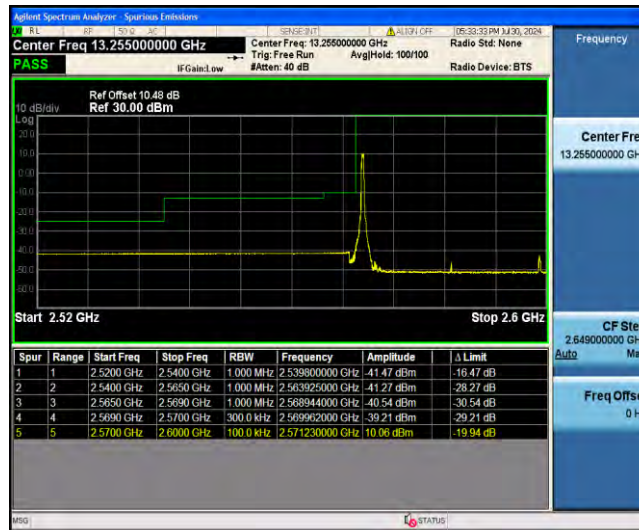
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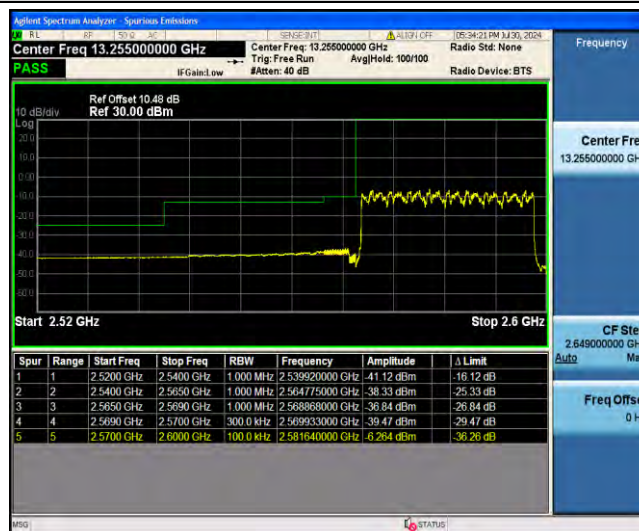
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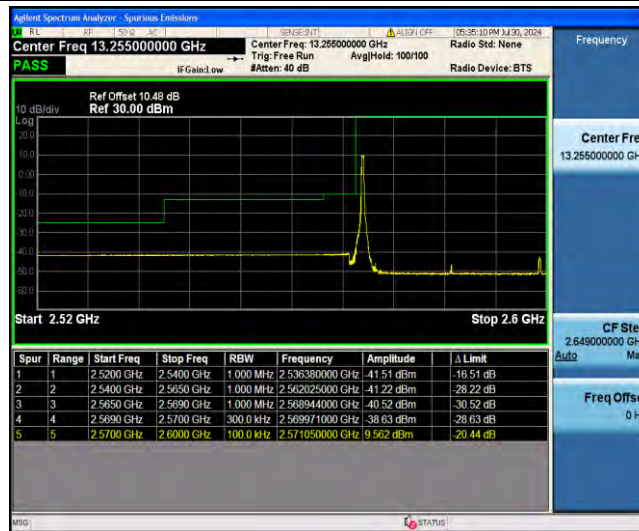
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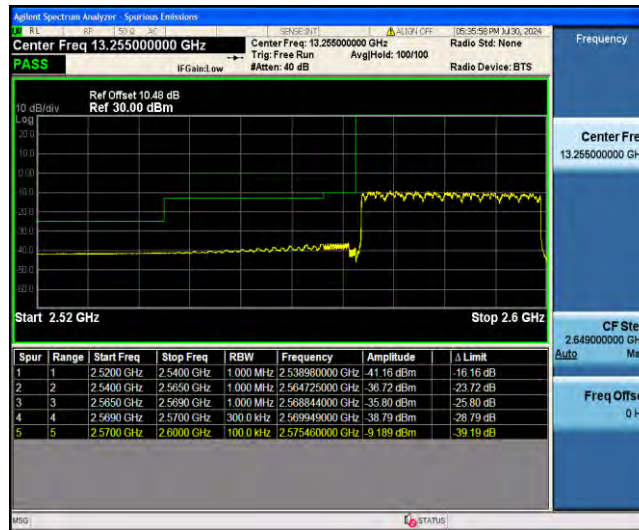
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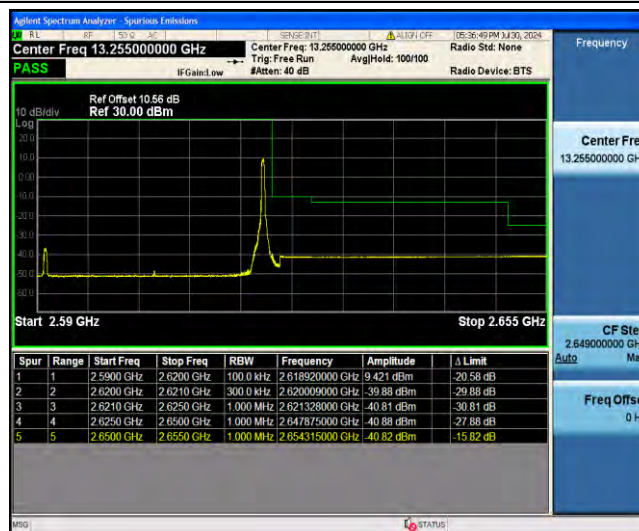
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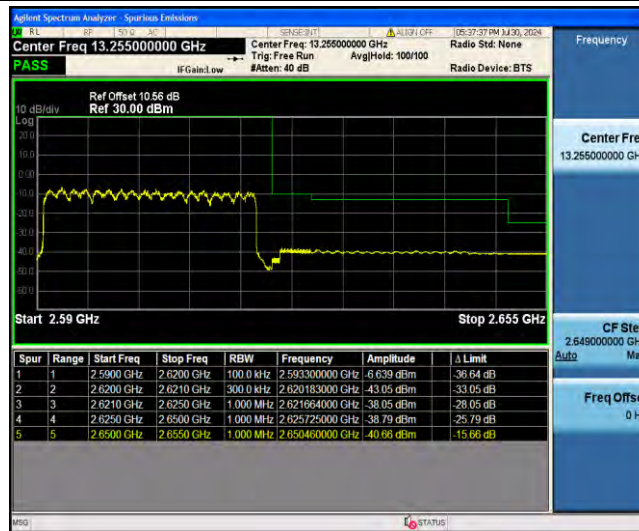
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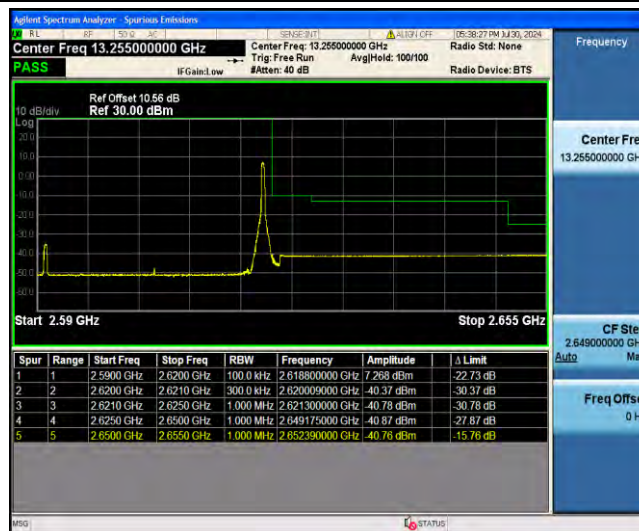
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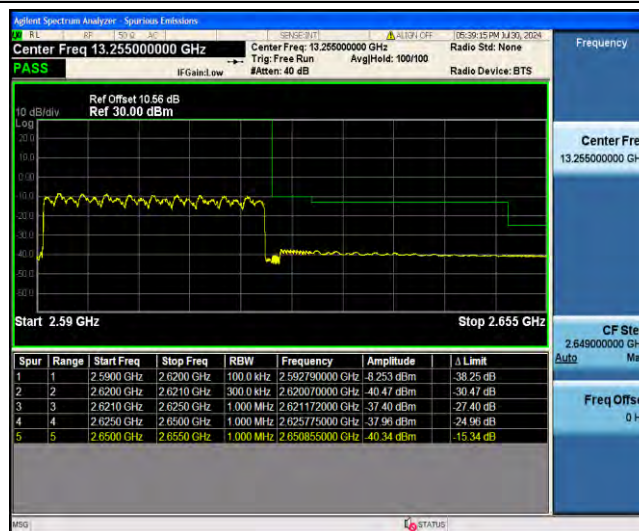
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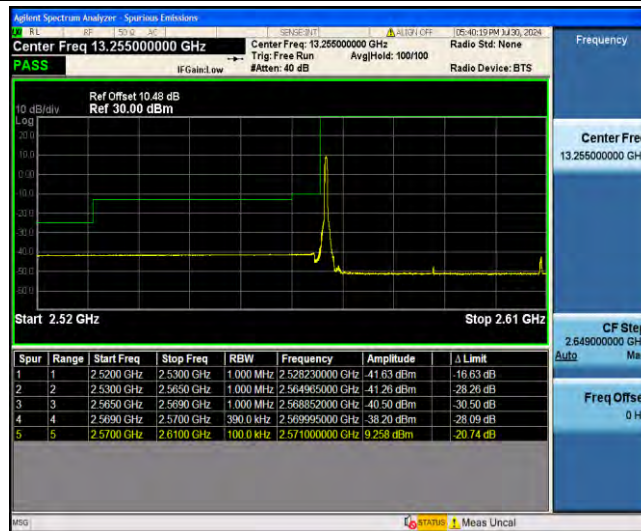
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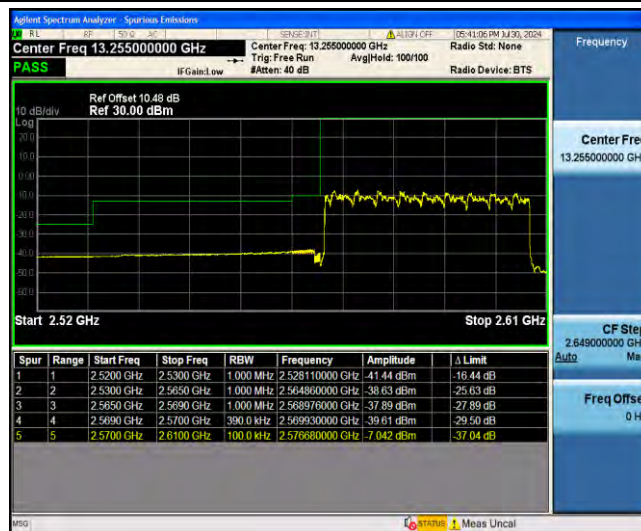
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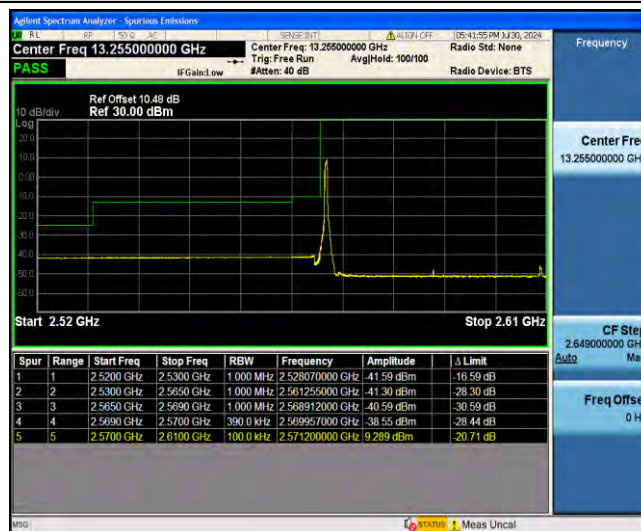
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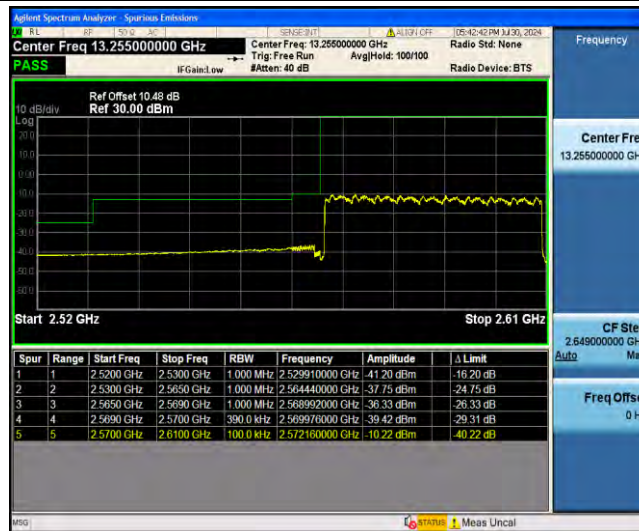
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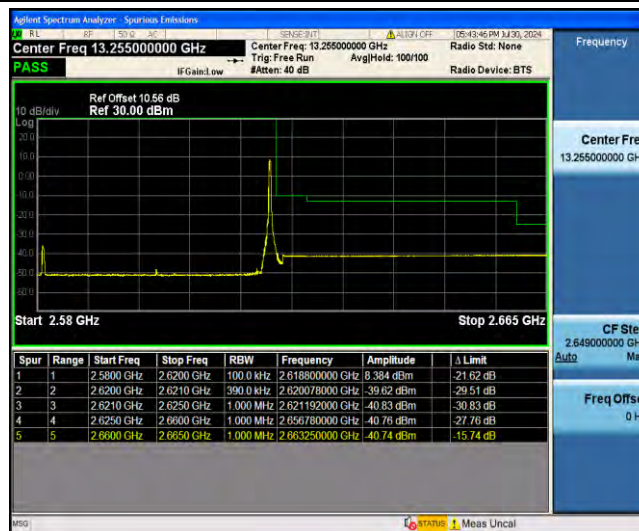
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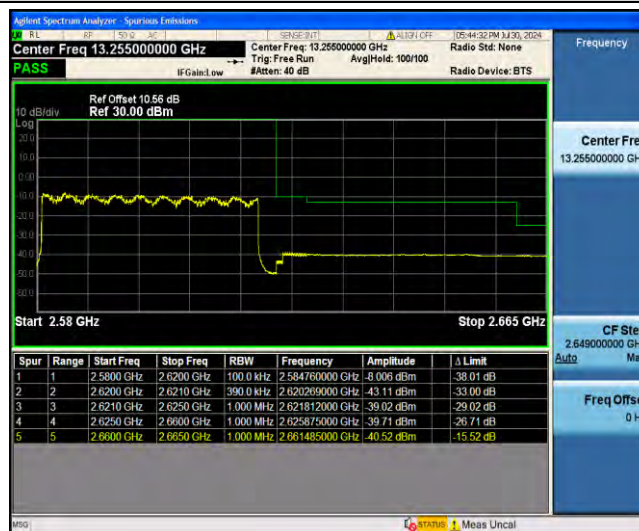
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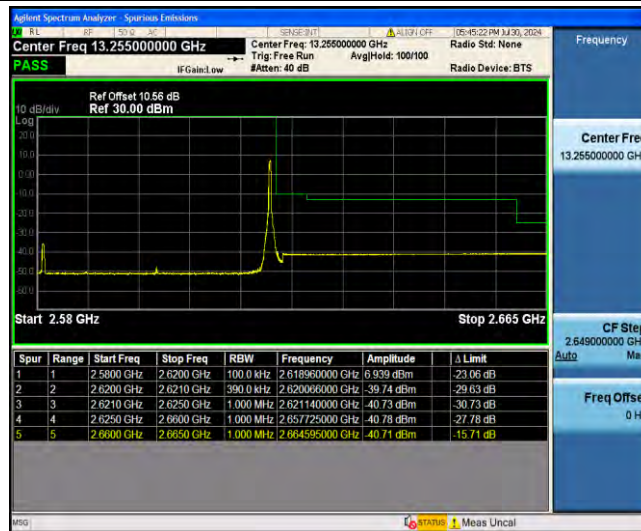
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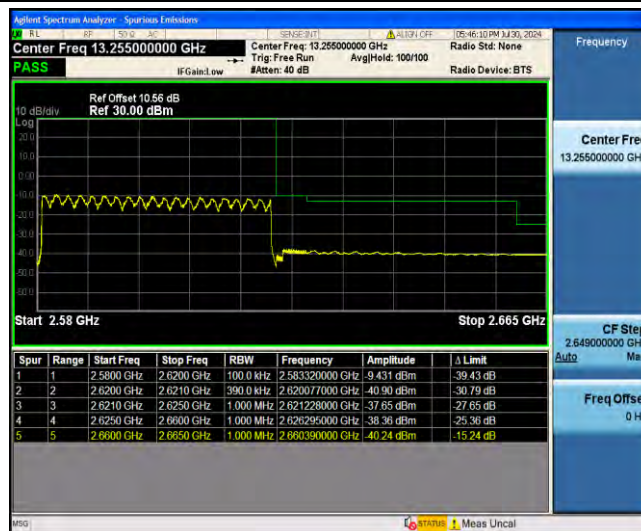
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1-N38-PC3-30-40-H-3-DFT-PI2BPSK-Outter_Full-100@0-Ant1-2661.49-15.52--40.52-PASS



1-N38-PC3-30-40-H-5-CP-QPSK-Edge_1RB_Right-1@105-Ant1-2664.60-15.71--40.71-PASS



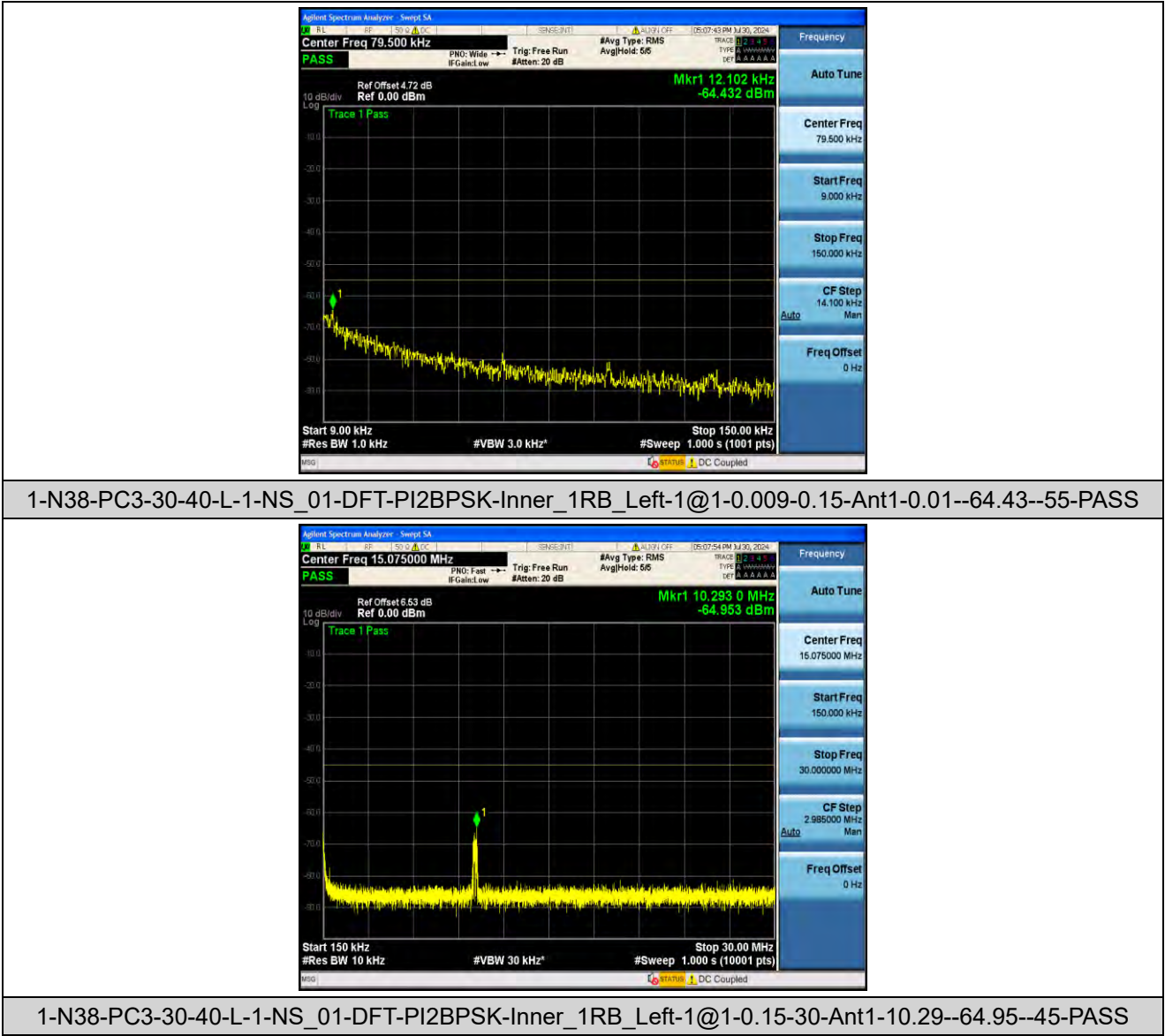
1-N38-PC3-30-40-H-6-CP-QPSK-Outer_Full-106@0-Ant1-2660.39-15.24--40.24-PASS

Conducted Spurious Emission for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	StartFreq	StopFreq	RB Config	Result	Limit	Verdict
N38	30	40	DFT-PI2BPSK	L	0.009	0.15	1@1	-64.43	-55	PASS
N38	30	40	DFT-PI2BPSK	L	0.15	30	1@1	-64.95	-45	PASS
N38	30	40	DFT-PI2BPSK	L	30	1000	1@1	-54.40	-35	PASS
N38	30	40	DFT-PI2BPSK	L	1000	3000	1@1	-40.05	-25	PASS
N38	30	40	DFT-PI2BPSK	L	3000	12000	1@1	-46.69	-25	PASS
N38	30	40	DFT-QPSK	L	12000	26500	1@1	-35.67	-25	PASS
N38	30	40	DFT-PI2BPSK	M	0.009	0.15	1@1	-63.87	-55	PASS
N38	30	40	DFT-PI2BPSK	M	0.15	30	1@1	-66.07	-45	PASS
N38	30	40	DFT-PI2BPSK	M	30	1000	1@1	-54.42	-35	PASS
N38	30	40	DFT-PI2BPSK	M	1000	3000	1@1	-40.05	-25	PASS
N38	30	40	DFT-PI2BPSK	M	3000	12000	1@1	-46.57	-25	PASS
N38	30	40	DFT-QPSK	M	12000	26500	1@1	-35.45	-25	PASS
N38	30	40	DFT-PI2BPSK	H	0.009	0.15	1@1	-63.83	-55	PASS
N38	30	40	DFT-PI2BPSK	H	0.15	30	1@1	-65.31	-45	PASS
N38	30	40	DFT-PI2BPSK	H	30	1000	1@1	-54.25	-35	PASS
N38	30	40	DFT-PI2BPSK	H	1000	3000	1@1	-40.08	-25	PASS
N38	30	40	DFT-PI2BPSK	H	3000	12000	1@1	-46.71	-25	PASS
N38	30	40	DFT-QPSK	H	12000	26500	1@1	-35.58	-25	PASS

Test Graphs





1-N38-PC3-30-40-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-999.03--54.40--35-PASS



1-N38-PC3-30-40-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant1-2665.60--40.05--25-PA
SS



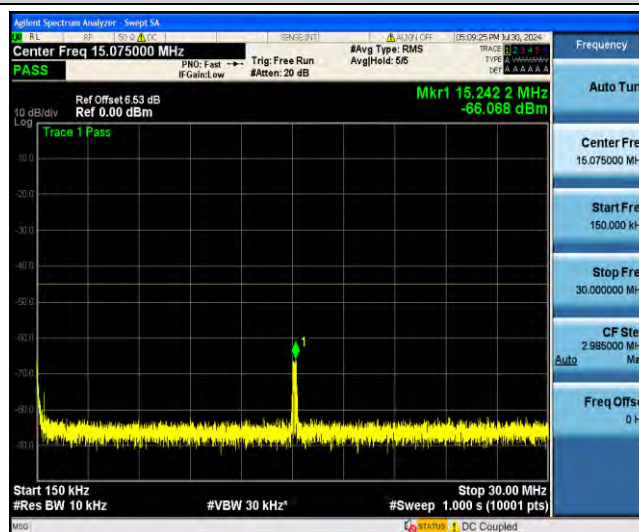
1-N38-PC3-30-40-L-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant1-5812.50--46.69--25-PA
SS



1-N38-PC3-30-40-L-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-12000-26500-Ant1-25693.80--35.67--25-PA
SS



1-N38-PC3-30-40-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.01--63.87--55-PASS



1-N38-PC3-30-40-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-15.24--66.07--45-PASS



1-N38-PC3-30-40-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-924.53--54.42--35-PASS



1-N38-PC3-30-40-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant1-2674.00--40.05--25-PASS



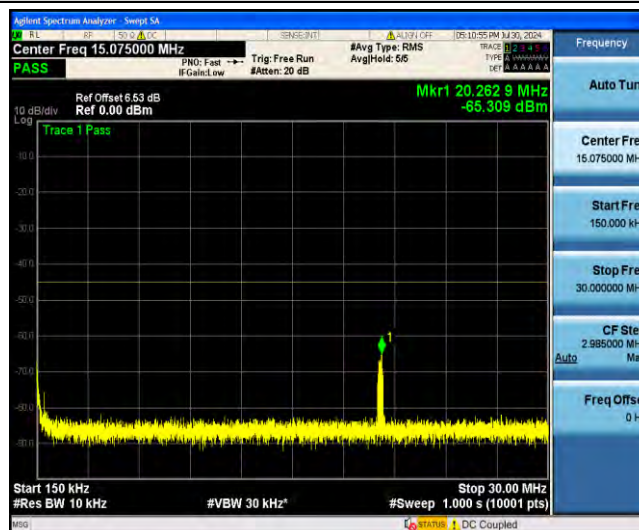
1-N38-PC3-30-40-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant1-5792.25--46.57--25-PASS



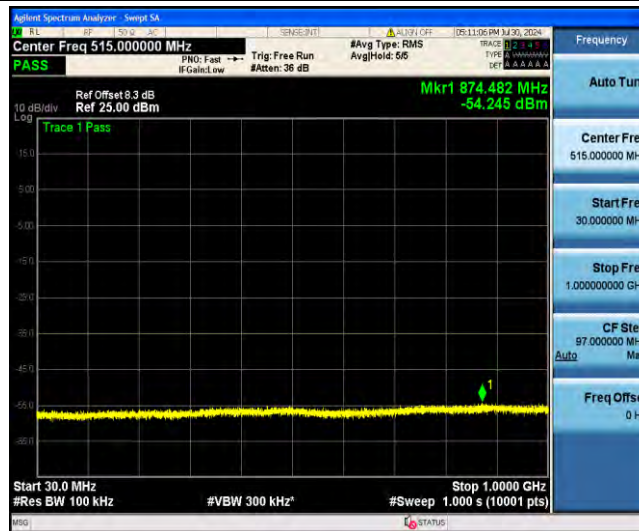
1-N38-PC3-30-40-M-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-12000-26500-Ant1-25723.53--35.45--25-PA
SS



1-N38-PC3-30-40-H-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.01--63.83--55-PASS



1-N38-PC3-30-40-H-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-20.26--65.31--45-PASS



1-N38-PC3-30-40-H-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-874.48--54.25--35-PASS



1-N38-PC3-30-40-H-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant1-2667.60--40.08--25-PASS



1-N38-PC3-30-40-H-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant1-5792.25--46.71--25-PASS



1-N38-PC3-30-40-H-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-12000-26500-Ant1-25699.60--35.58--25-PA
SS

Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature(°C)	Deviation(Hz)	Deviation (ppm)	Verdict
N38	30	40	DFT-PI2BPSK	M	100@0	VN	NT	10.00	0.00	PASS
N38	30	40	DFT-PI2BPSK	M	100@0	VL	NT	13.80	0.01	PASS
N38	30	40	DFT-PI2BPSK	M	100@0	VH	NT	15.00	0.01	PASS
N38	30	40	CP-QPSK	M	106@0	VN	NT	-9.60	0.00	PASS
N38	30	40	CP-QPSK	M	106@0	VL	NT	5.50	0.00	PASS
N38	30	40	CP-QPSK	M	106@0	VH	NT	11.30	0.00	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature(°C)	Deviation(Hz)	Deviation (ppm)	Verdict
N38	30	40	DFT-PI2BPSK	M	100@0	NV	-20	12.100000	0.004663	PASS
N38	30	40	DFT-PI2BPSK	M	100@0	NV	50	-7.100000	-0.002736	PASS
N38	30	40	DFT-PI2BPSK	M	100@0	NV	40	5.900000	0.002274	PASS
N38	30	40	DFT-PI2BPSK	M	100@0	NV	10	9.600000	0.003699	PASS
N38	30	40	DFT-PI2BPSK	M	100@0	NV	-10	-8.300000	-0.003198	PASS
N38	30	40	DFT-PI2BPSK	M	100@0	NV	-30	7.700000	0.002967	PASS
N38	30	40	DFT-PI2BPSK	M	100@0	NV	30	-8.600000	-0.003314	PASS
N38	30	40	DFT-PI2BPSK	M	100@0	NV	0	-5.500000	-0.002119	PASS
N38	30	40	DFT-PI2BPSK	M	100@0	NV	20	8.000000	0.003083	PASS
N38	30	40	CP-QPSK	M	106@0	NV	0	-11.100000	-0.004277	PASS
N38	30	40	CP-QPSK	M	106@0	NV	10	11.200000	0.004316	PASS
N38	30	40	CP-QPSK	M	106@0	NV	-10	16.600000	0.006397	PASS
N38	30	40	CP-QPSK	M	106@0	NV	-20	14.700000	0.005665	PASS
N38	30	40	CP-QPSK	M	106@0	NV	50	-13.000000	-0.005010	PASS
N38	30	40	CP-QPSK	M	106@0	NV	30	9.000000	0.003468	PASS
N38	30	40	CP-QPSK	M	106@0	NV	-30	-10.300000	-0.003969	PASS
N38	30	40	CP-QPSK	M	106@0	NV	40	-6.500000	-0.002505	PASS
N38	30	40	CP-QPSK	M	106@0	NV	20	-12.200000	-0.004701	PASS

Field Strength of Spurious Radiation

SA Band 38 ANT11-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	-62.68	-25	-37.68	-68.29	4.62	10.23	Horizontal	Pass
7716.0	-59.82	-25	-34.82	-66.85	4.96	11.99	Horizontal	Pass
10288.0	-57.02	-25	-32.02	-64.59	5.51	13.08	Horizontal	Pass
5144.0	-63.12	-25	-38.12	-68.73	4.62	10.23	Vertical	Pass
7716.0	-59.96	-25	-34.96	-66.99	4.96	11.99	Vertical	Pass
10288.0	-56.96	-25	-31.96	-64.53	5.51	13.08	Vertical	Pass

SA Band 38 ANT11-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	-62.99	-25	-37.99	-68.61	4.62	10.24	Horizontal	Pass
7731.0	-60.55	-25	-35.55	-67.6	4.96	12.01	Horizontal	Pass
10344.0	-56.71	-25	-31.71	-64.28	5.52	13.09	Horizontal	Pass
5154.0	-63.28	-25	-38.28	-68.9	4.62	10.24	Vertical	Pass
7731.0	-59.98	-25	-34.98	-67.03	4.96	12.01	Vertical	Pass
10344.0	-57.29	-25	-32.29	-64.86	5.52	13.09	Vertical	Pass

SA Band 38 ANT11-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	-62.5	-25	-37.5	-68.12	4.62	10.24	Horizontal	Pass
7746.0	-58.94	-25	-33.94	-66.01	4.96	12.03	Horizontal	Pass
10328.0	-56.92	-25	-31.92	-64.5	5.51	13.09	Horizontal	Pass
5164.0	-63.07	-25	-38.07	-68.69	4.62	10.24	Vertical	Pass
7746.0	-59.25	-25	-34.25	-66.32	4.96	12.03	Vertical	Pass
10328.0	-57.04	-25	-32.04	-64.62	5.51	13.09	Vertical	Pass

NSA DC_5A_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	-63.38	-25	-38.38	-68.99	4.62	10.23	Horizontal	Pass
7716.0	-59.93	-25	-34.93	-66.96	4.96	11.99	Horizontal	Pass
10288.0	-56.96	-25	-31.96	-64.53	5.51	13.08	Horizontal	Pass
5144.0	-62.98	-25	-37.98	-68.59	4.62	10.23	Vertical	Pass
7716.0	-59.31	-25	-34.31	-66.34	4.96	11.99	Vertical	Pass
10288.0	-56.65	-25	-31.65	-64.22	5.51	13.08	Vertical	Pass

NSA DC_5A_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	-63.14	-25	-38.14	-68.76	4.62	10.24	Horizontal	Pass
7731.0	-60.33	-25	-35.33	-67.38	4.96	12.01	Horizontal	Pass
10344.0	-56.52	-25	-31.52	-64.09	5.52	13.09	Horizontal	Pass
5154.0	-62.9	-25	-37.9	-68.52	4.62	10.24	Vertical	Pass
7731.0	-60.1	-25	-35.1	-67.15	4.96	12.01	Vertical	Pass
10344.0	-56.61	-25	-31.61	-64.18	5.52	13.09	Vertical	Pass

NSA DC_5A_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	-62.85	-25	-37.85	-68.47	4.62	10.24	Horizontal	Pass
7746.0	-59.92	-25	-34.92	-66.99	4.96	12.03	Horizontal	Pass
10328.0	-57.14	-25	-32.14	-64.72	5.51	13.09	Horizontal	Pass
5164.0	-63.3	-25	-38.3	-68.92	4.62	10.24	Vertical	Pass
7746.0	-59.73	-25	-34.73	-66.8	4.96	12.03	Vertical	Pass
10328.0	-57.23	-25	-32.23	-64.81	5.51	13.09	Vertical	Pass

Remark:

- 1) The field strength is calculated by adding the S.G.Power, Antenna Gain & Cable Loss. The basic equation with a sample calculation is as follows:

$$\text{EIRP} = \text{S.G.Power} + \text{Antenna Gain} - \text{Cable Loss}$$

$$\text{Over Limit} = \text{Limit} - \text{EIRP}$$
- 2) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---