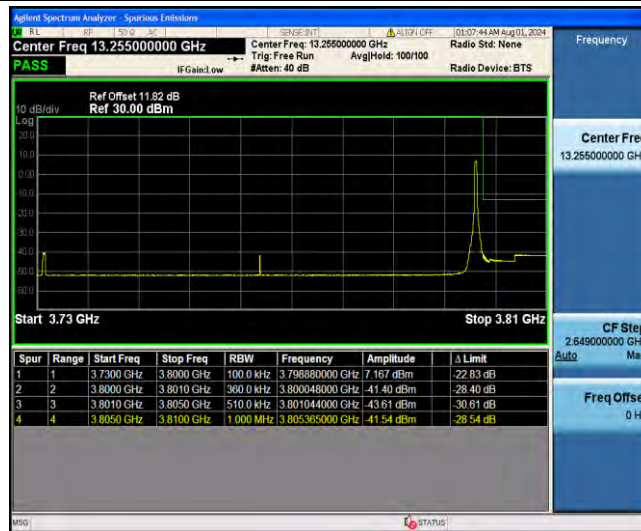
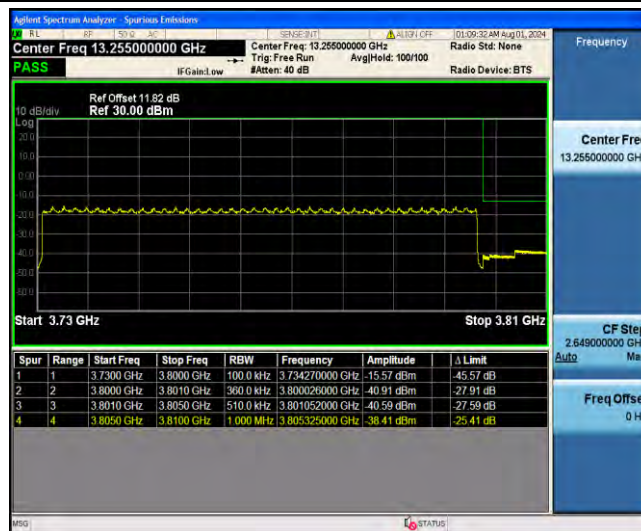
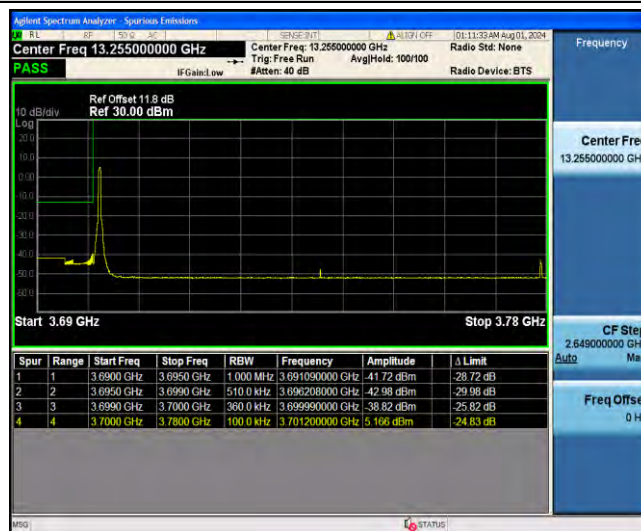




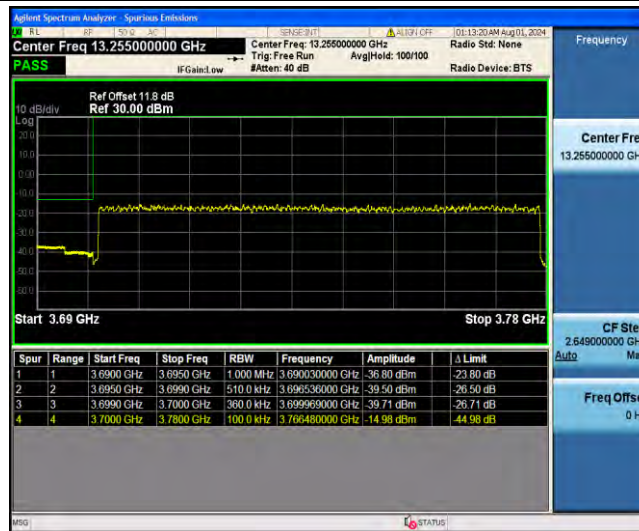
1-N78-3700-3800-PC2-30-70-H-5-CP-QPSK-Edge_1RB_Right-1@188-Ant1-3800.05-28.40--41.40-PASS



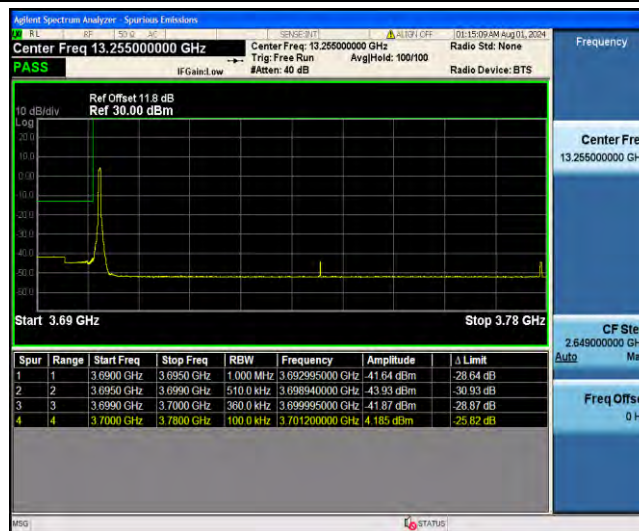
1-N78-3700-3800-PC2-30-70-H-6-CP-QPSK-Outer_Full-189@0-Ant1-3805.33-25.41--38.41-PASS



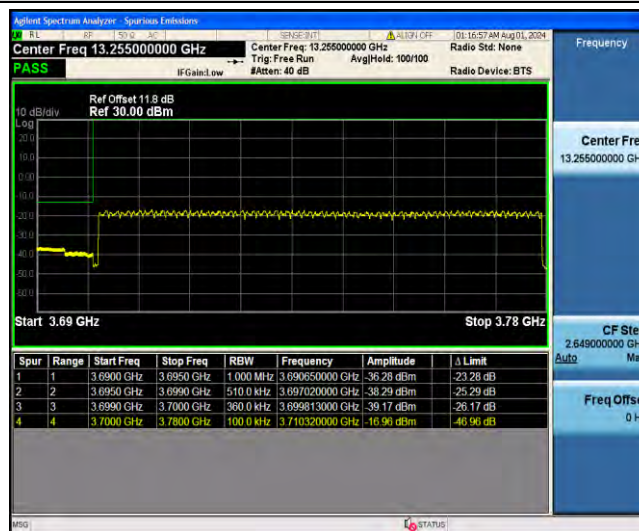
1-N78-3700-3800-PC2-30-80-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-3699.99-25.82--38.82-PASS



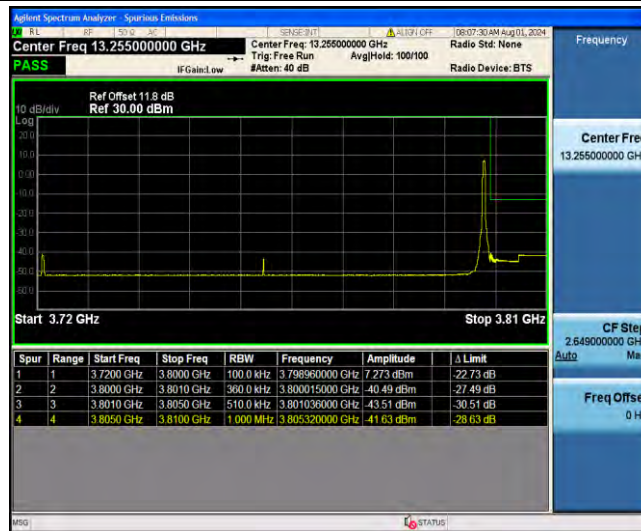
1-N78-3700-3800-PC2-30-80-L-3-DFT-PI2BPSK-Outter_Full-216@0-Ant1-3690.03-23.80--36.80-PASS



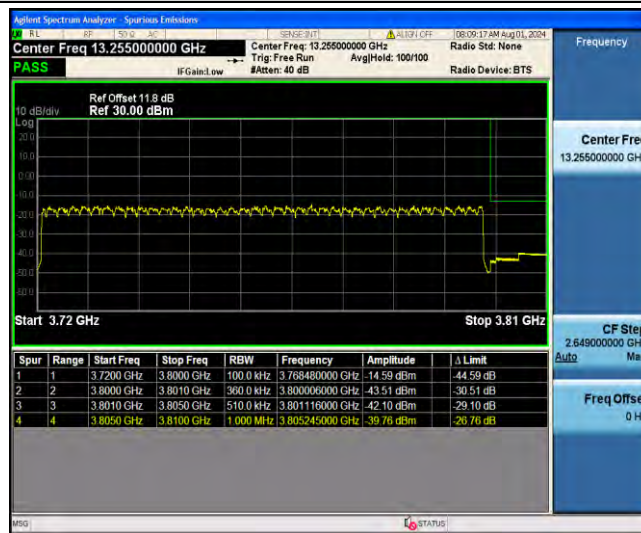
1-N78-3700-3800-PC2-30-80-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-3693.00-28.64--41.64-PASS



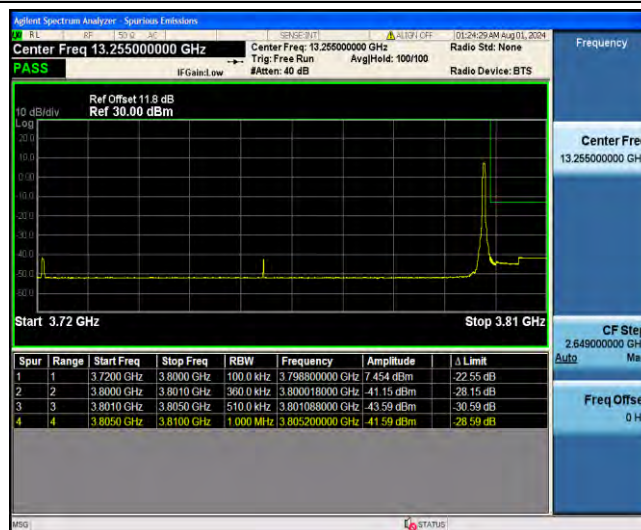
1-N78-3700-3800-PC2-30-80-L-6-CP-QPSK-Outter_Full-217@0-Ant1-3690.65-23.28--36.28-PASS



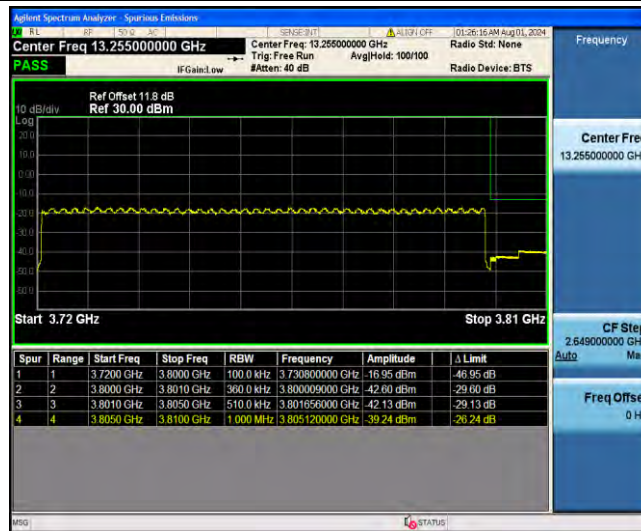
1-N78-3700-3800-PC2-30-80-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@216-Ant1-3800.02-27.49--40.49-PAS
S



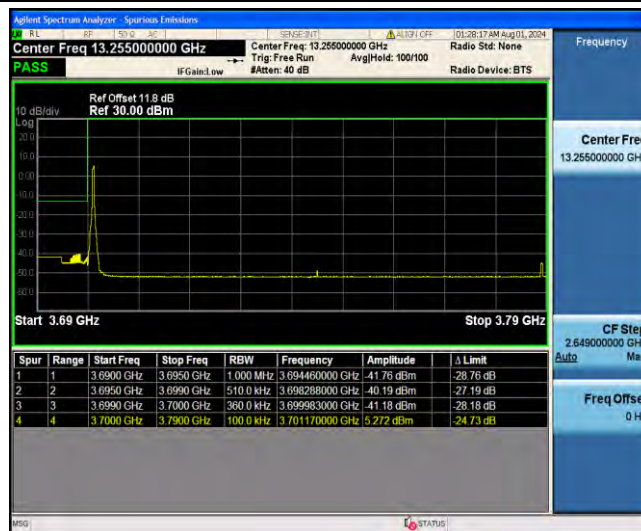
1-N78-3700-3800-PC2-30-80-H-3-DFT-PI2BPSK-Outer_Full-216@0-Ant1-3805.25-26.76--39.76-PASS



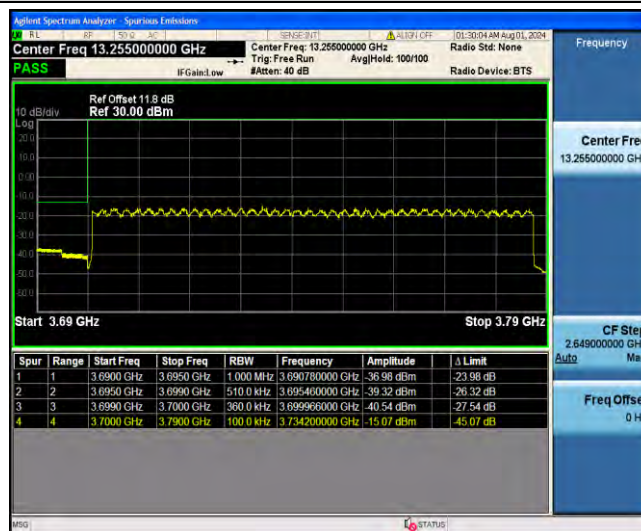
1-N78-3700-3800-PC2-30-80-H-5-CP-QPSK-Edge_1RB_Right-1@216-Ant1-3800.02-28.15--41.15-PASS



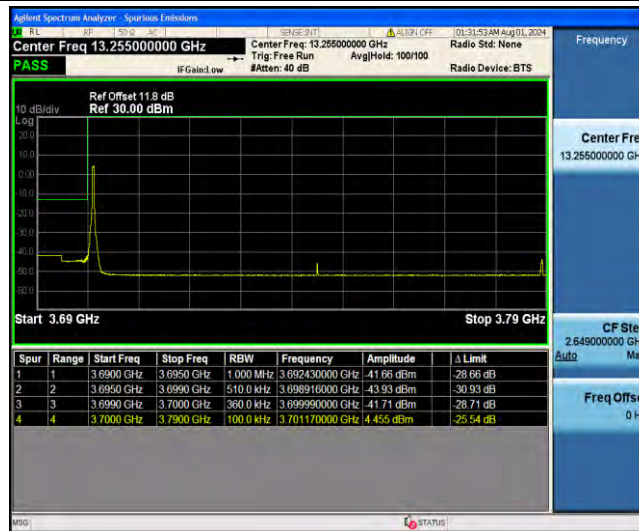
1-N78-3700-3800-PC2-30-80-H-6-CP-QPSK-Outer_Full-217@0-Ant1-3805.12-26.24--39.24-PASS



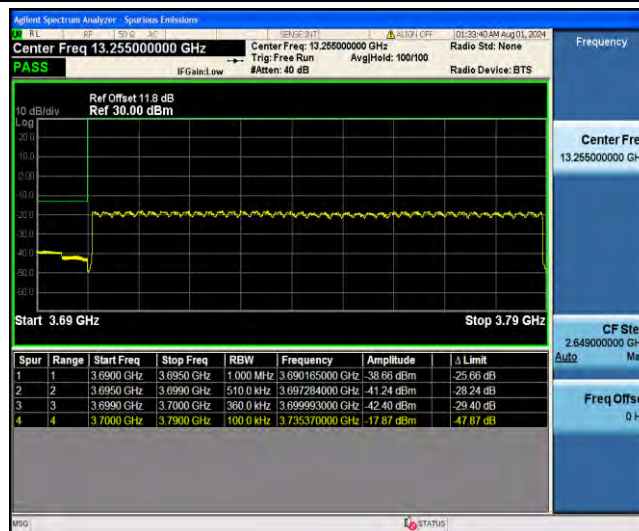
1-N78-3700-3800-PC2-30-90-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-3698.29-27.19--40.19-PASS



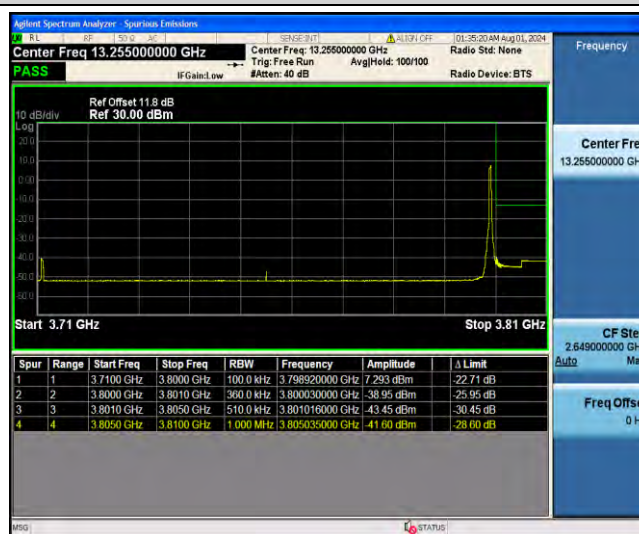
1-N78-3700-3800-PC2-30-90-L-3-DFT-PI2BPSK-Outer_Full-240@0-Ant1-3690.78-23.98--36.98-PASS



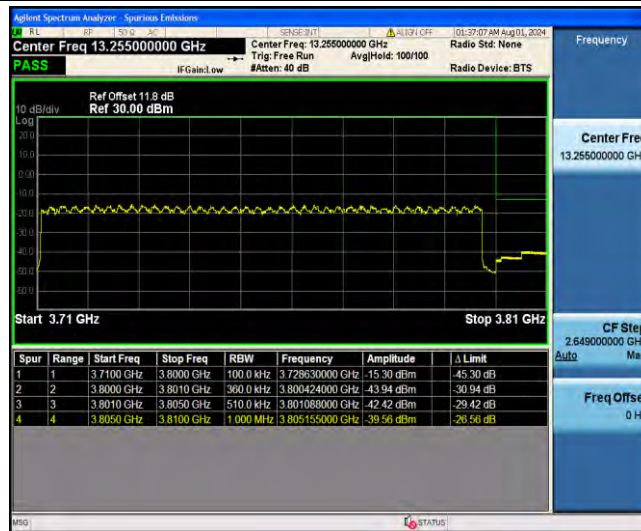
1-N78-3700-3800-PC2-30-90-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-3692.43-28.66--41.66-PASS



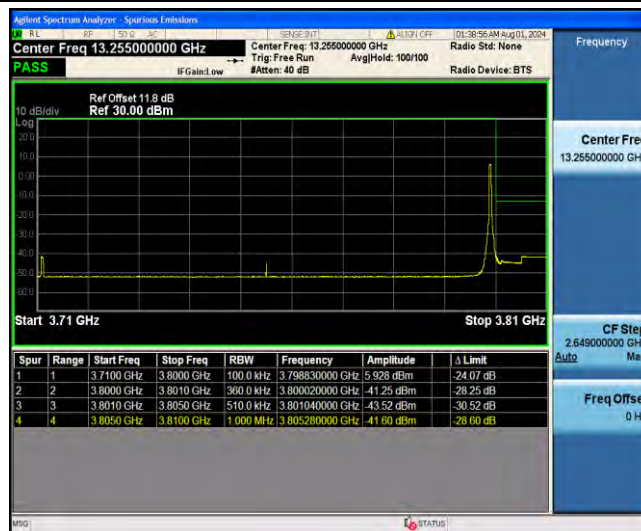
1-N78-3700-3800-PC2-30-90-L-6-CP-QPSK-Outer_Full-245@0-Ant1-3690.17-25.66--38.66-PASS



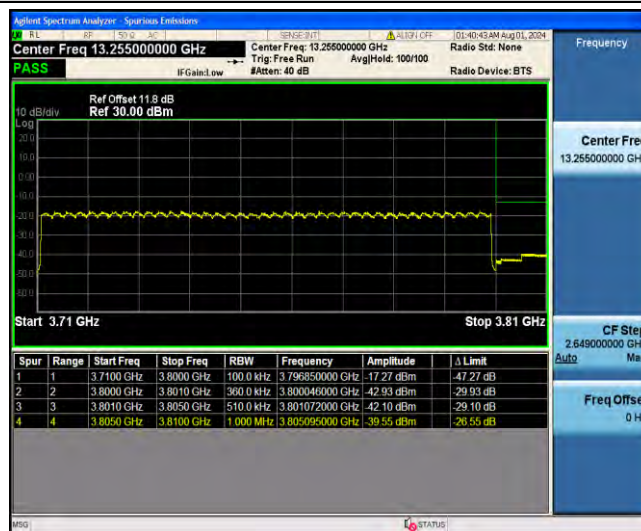
1-N78-3700-3800-PC2-30-90-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@244-Ant1-3800.03-25.95--38.95-PAS



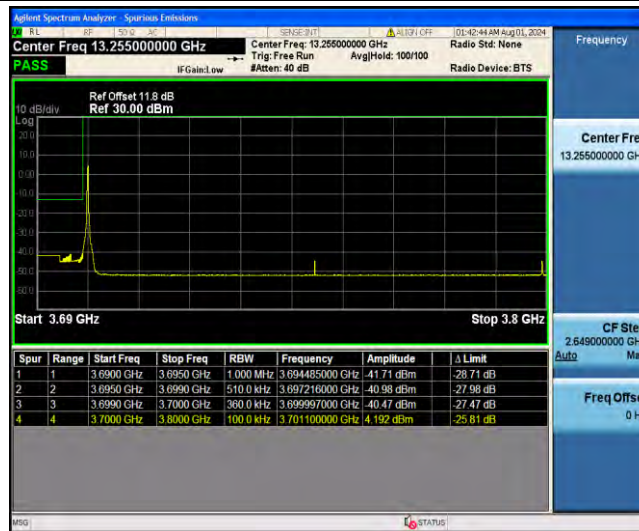
1-N78-3700-3800-PC2-30-90-H-3-DFT-PI2BPSK-Outter_Full-240@0-Ant1-3805.16-26.56--39.56-PASS



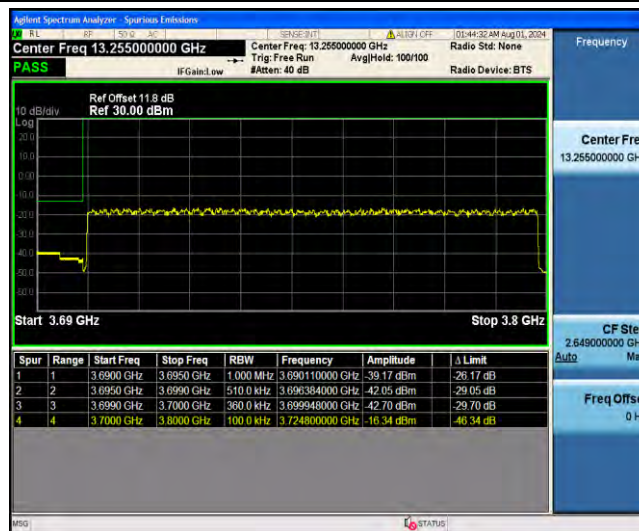
1-N78-3700-3800-PC2-30-90-H-5-CP-QPSK-Edge_1RB_Right-1@244-Ant1-3800.02-28.25--41.25-PASS



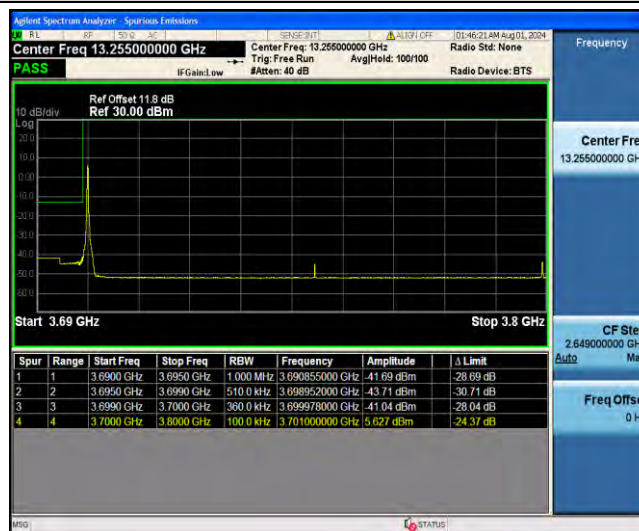
1-N78-3700-3800-PC2-30-90-H-6-CP-QPSK-Outter_Full-245@0-Ant1-3805.10-26.55--39.55-PASS



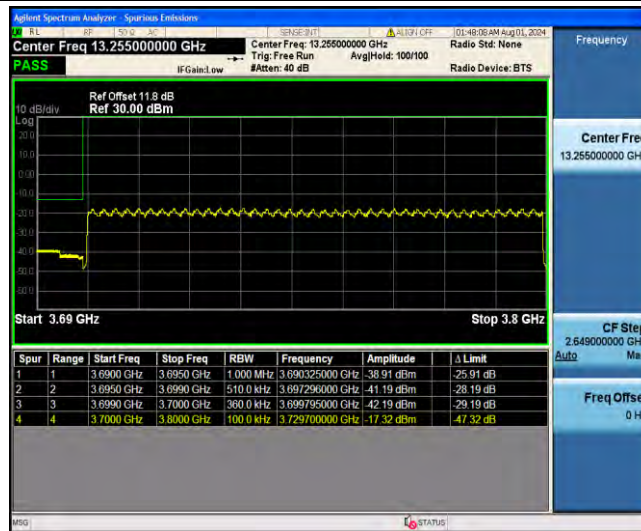
1-N78-3700-3800-PC2-30-100-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-3700.00-27.47--40.47-PASS



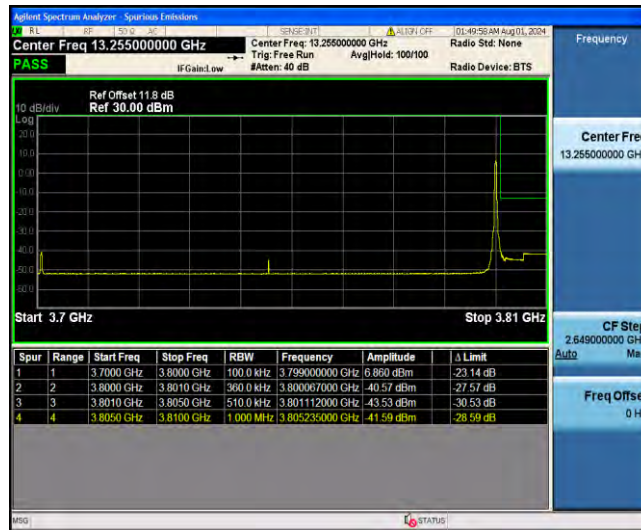
1-N78-3700-3800-PC2-30-100-L-3-DFT-PI2BPSK-Outer_Full-270@0-Ant1-3690.11-26.17--39.17-PASS



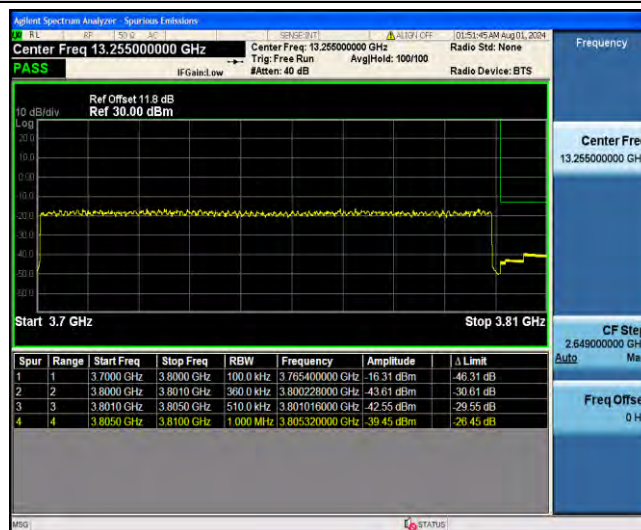
1-N78-3700-3800-PC2-30-100-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-3699.98-28.04--41.04-PASS



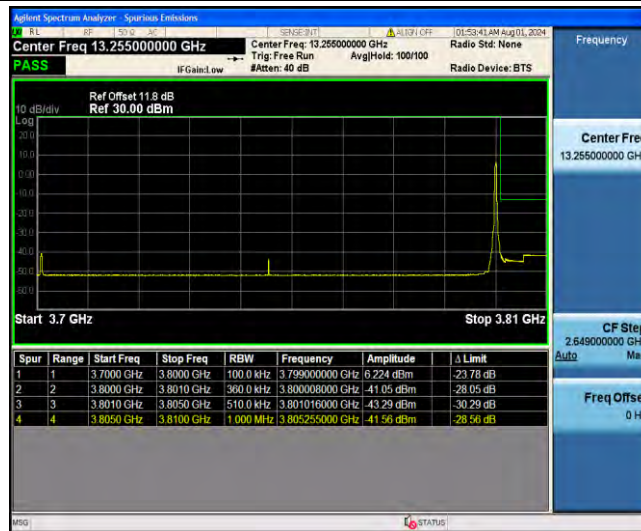
1-N78-3700-3800-PC2-30-100-L-6-CP-QPSK-Outer_Full-273@0-Ant1-3690.33-25.91--38.91-PASS



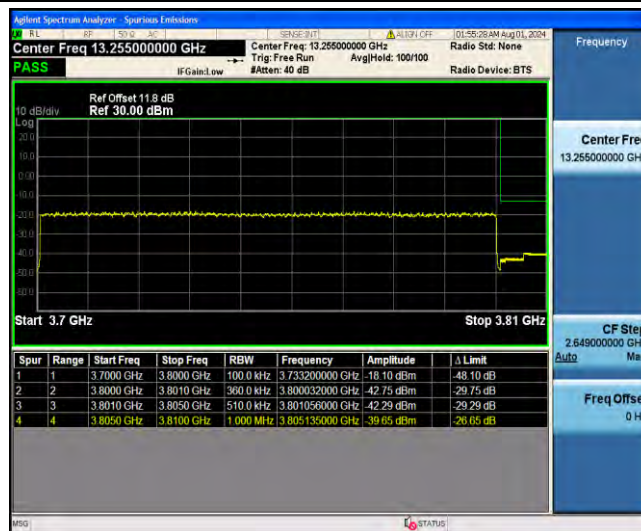
1-N78-3700-3800-PC2-30-100-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@272-Ant1-3800.07-27.57--40.57-PASS



1-N78-3700-3800-PC2-30-100-H-3-DFT-PI2BPSK-Outer_Full-270@0-Ant1-3805.32-26.45--39.45-PASS



1-N78-3700-3800-PC2-30-100-H-5-CP-QPSK-Edge_1RB_Right-1@272-Ant1-3800.01-28.05--41.05-PASS



1-N78-3700-3800-PC2-30-100-H-6-CP-QPSK-Outer_Full-273@0-Ant1-3805.14-26.65--39.65-PASS

Conducted Spurious Emission for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	StartFreq	StopFreq	RB Config	Result	Limit	Verdict
N78-3700-3800	30	100	DFT-PI2BPSK	M	0.009	0.15	1@1	-90.18	-43	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	0.15	30	1@1	-88.75	-33	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	30	1000	1@1	-57.58	-13	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	1000	6000	1@1	-39.20	-13	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	6000	18000	1@1	-39.20	-13	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	18000	40000	1@1	-33.92	-13	PASS

Test Graphs



1-N78-3700-3800-PC2-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.10--90.18--43-PASS



1-N78-3700-3800-PC2-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-0.60--88.75--33-PASS



1-N78-3700-3800-PC2-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-880.25--57.5
8--13-PASS



1-N78-3700-3800-PC2-30-100-M-1-NS_01-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1-3847.50--
39.20--13-PASS



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
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	VN	NT	12.20	0.00	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	VL	NT	8.00	0.00	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	VH	NT	9.90	0.00	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	VN	NT	7.60	0.00	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	VL	NT	-13.10	0.00	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	VH	NT	12.20	0.00	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	NV	20	-14.800000	-0.003947	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	NV	50	-10.700000	-0.002853	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	NV	40	20.300000	0.005413	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	NV	-10	-5.500000	-0.001467	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	NV	10	-15.100000	-0.004027	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	NV	30	15.100000	0.004027	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	NV	-30	-17.100000	-0.004560	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	NV	0	11.600000	0.003093	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	270@0	NV	-20	-7.700000	-0.002053	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	NV	0	-12.600000	-0.003360	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	NV	-10	6.700000	0.001787	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	NV	10	-10.300000	-0.002747	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	NV	20	8.100000	0.002160	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	NV	50	-10.100000	-0.002693	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	NV	-30	-18.200000	-0.004853	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	NV	30	-14.400000	-0.003840	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	NV	40	15.000000	0.004000	PASS
N78-3700-3800	30	100	CP-QPSK	M	273@0	NV	-20	6.300000	0.001680	PASS

Field Strength of Spurious Radiation

SA Band 78 3700-3800 ANT21- 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
7410.0	-48.27	-13	-35.27	-54.96	4.94	11.63	Horizontal	Pass
11115.0	-55.49	-13	-42.49	-62.94	5.81	13.26	Horizontal	Pass
14820.0	-54.96	-13	-41.96	-62.52	6.92	14.48	Horizontal	Pass
7410.0	-43.05	-13	-30.05	-49.74	4.94	11.63	Vertical	Pass
11115.0	-55.46	-13	-42.46	-62.91	5.81	13.26	Vertical	Pass
14820.0	-54.34	-13	-41.34	-61.9	6.92	14.48	Vertical	Pass

NSA DC_7A_n78A 3700-3800- 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
7410.0	-60.32	-13	-47.32	-67.01	4.94	11.63	Horizontal	Pass
11115.0	-55.82	-13	-42.82	-63.27	5.81	13.26	Horizontal	Pass
14820.0	-54.83	-13	-41.83	-62.39	6.92	14.48	Horizontal	Pass
7410.0	-60.1	-13	-47.1	-66.79	4.94	11.63	Vertical	Pass
11115.0	-55.46	-13	-42.46	-62.91	5.81	13.26	Vertical	Pass
14820.0	-54.75	-13	-41.75	-62.31	6.92	14.48	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---