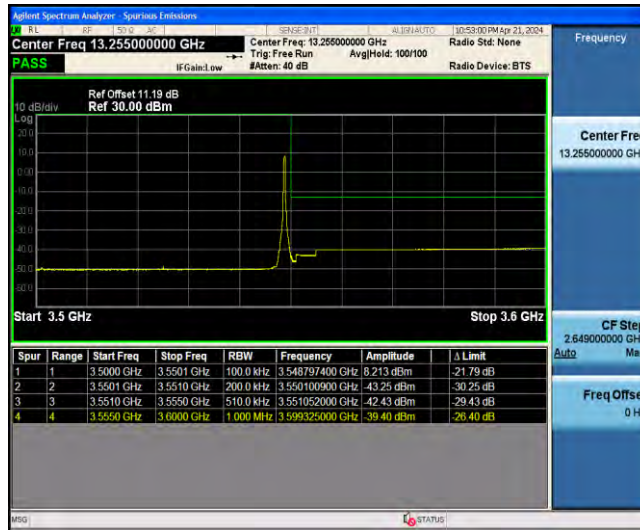


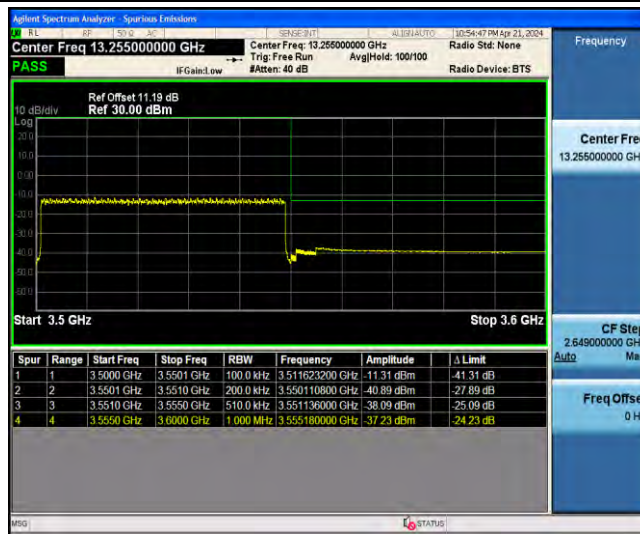


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1-N78-3450-3550-PC2-30-50-H-5-CP-QPSK-Edge\_1RB\_Right-1@132-ANT101-3599.33-26.40--39.40-PAS  
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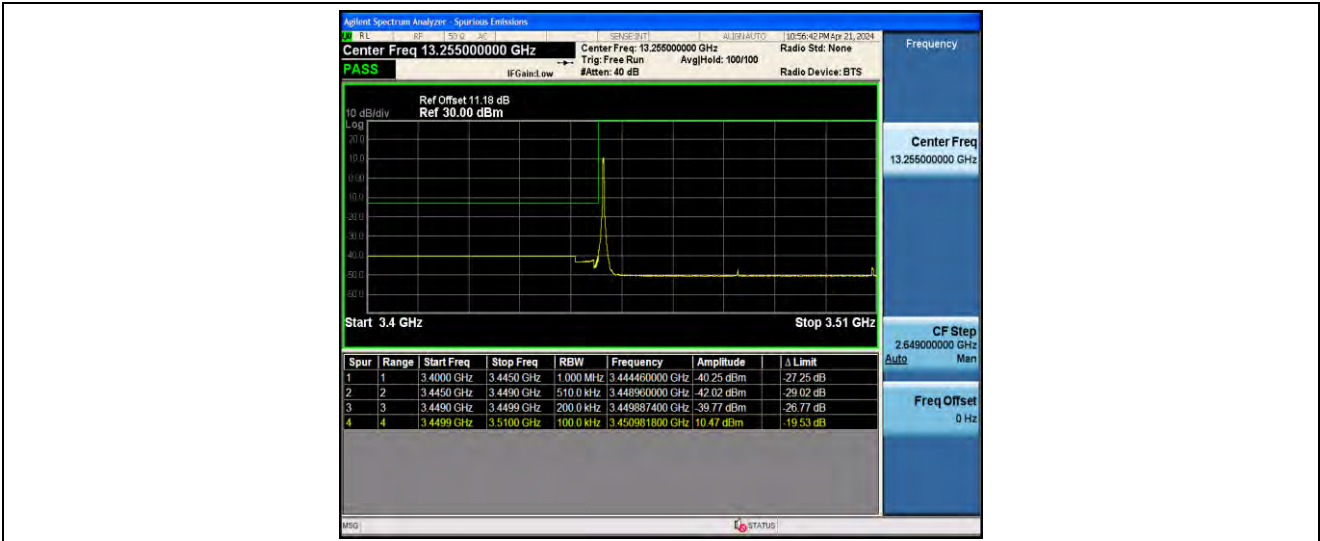
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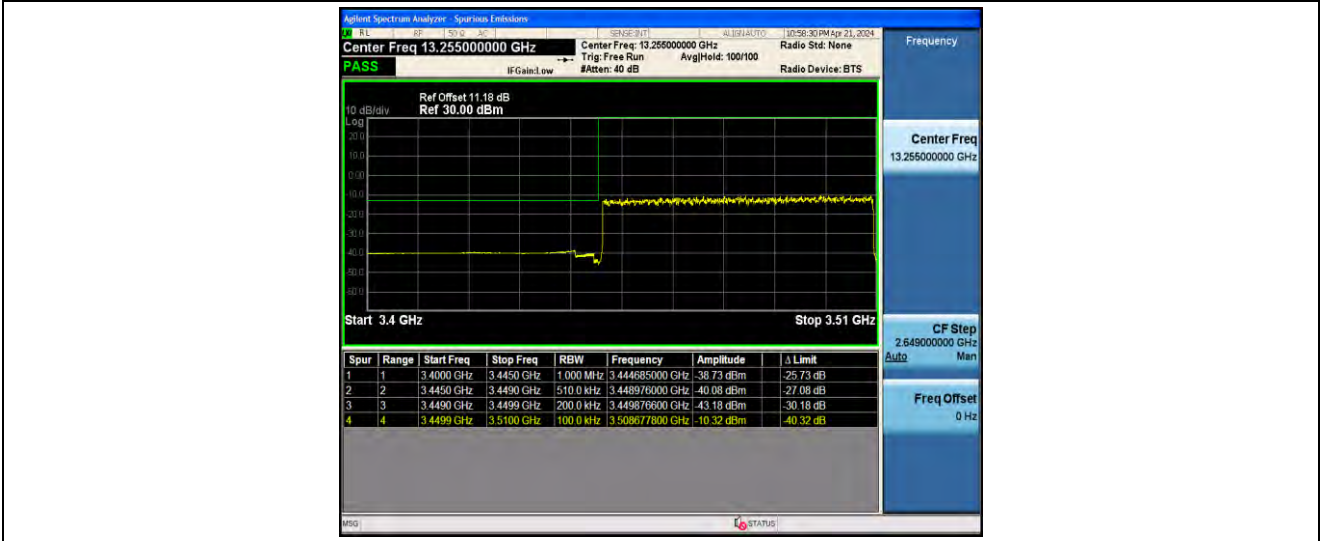


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1-N78-3450-3550-PC2-30-60-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-ANT101-3449.89-26.77--39.77-PAS  
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1-N78-3450-3550-PC2-30-60-L-3-DFT-PI2BPSK-Outer\_Full-162@0-ANT101-3444.69-25.73--38.73-PASS



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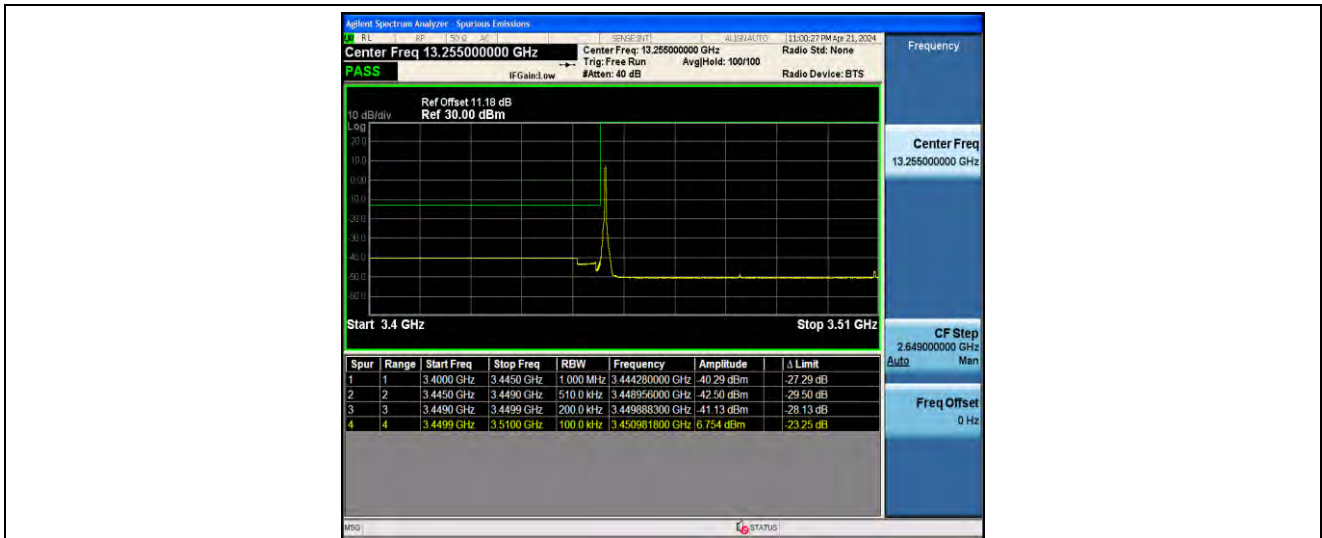
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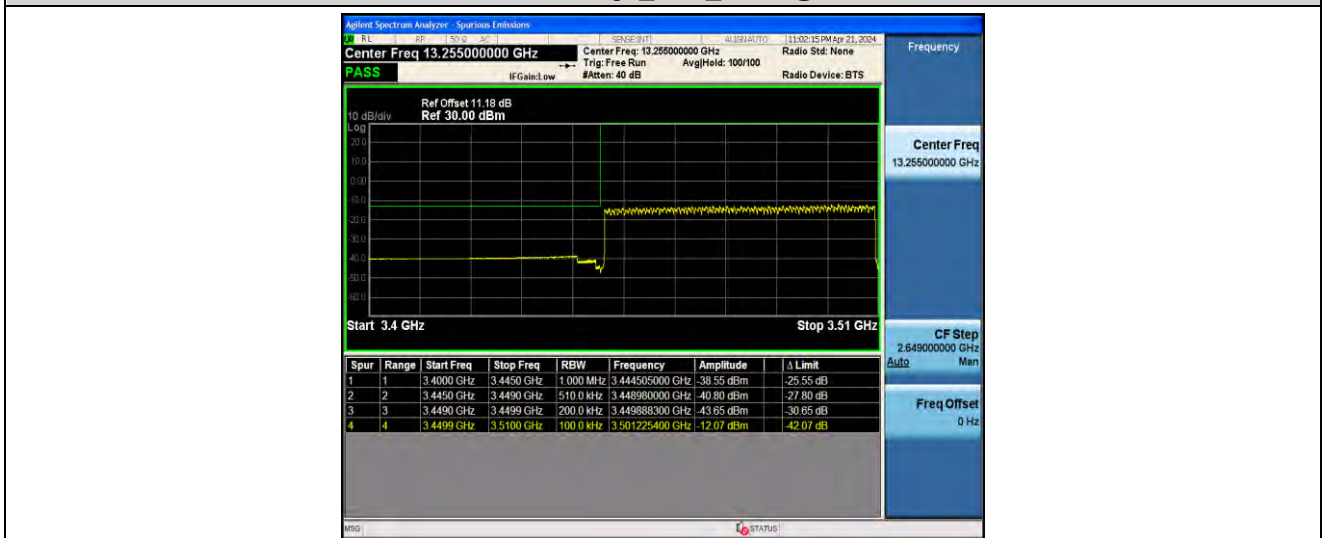


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1-N78-3450-3550-PC2-30-60-L-6-CP-QPSK-Outer\_Full-162@0-ANT101-3444.51-25.55--38.55-PASS



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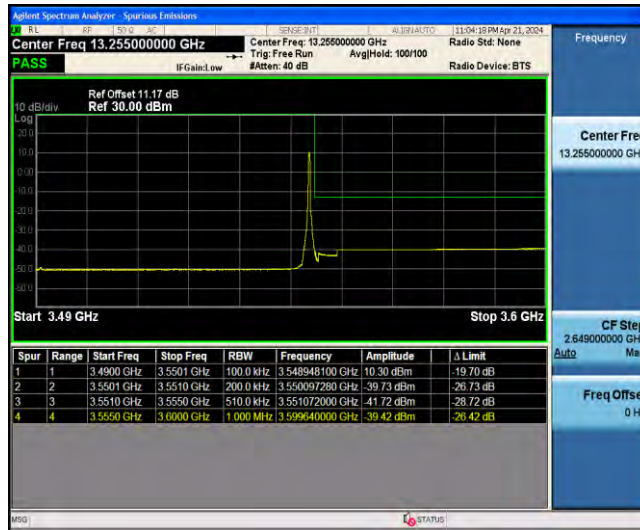
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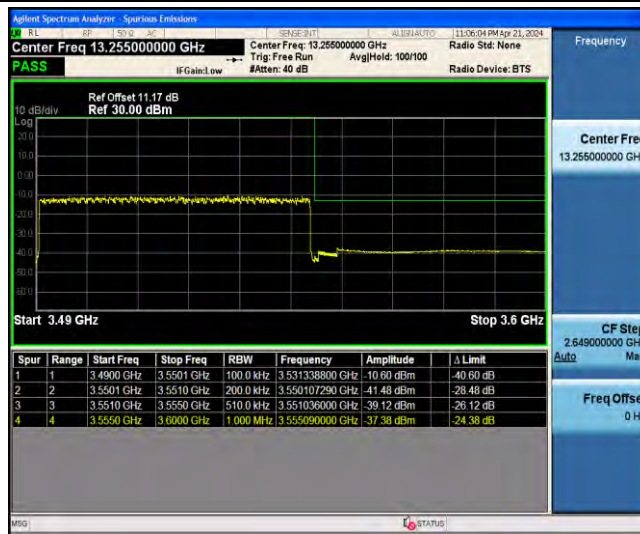


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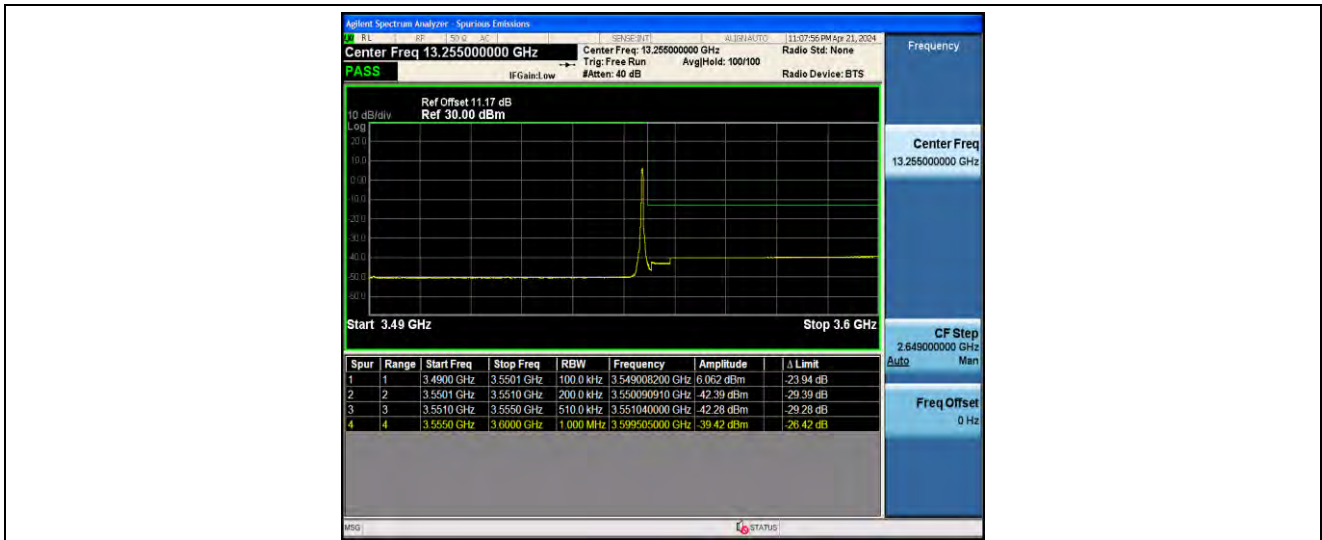
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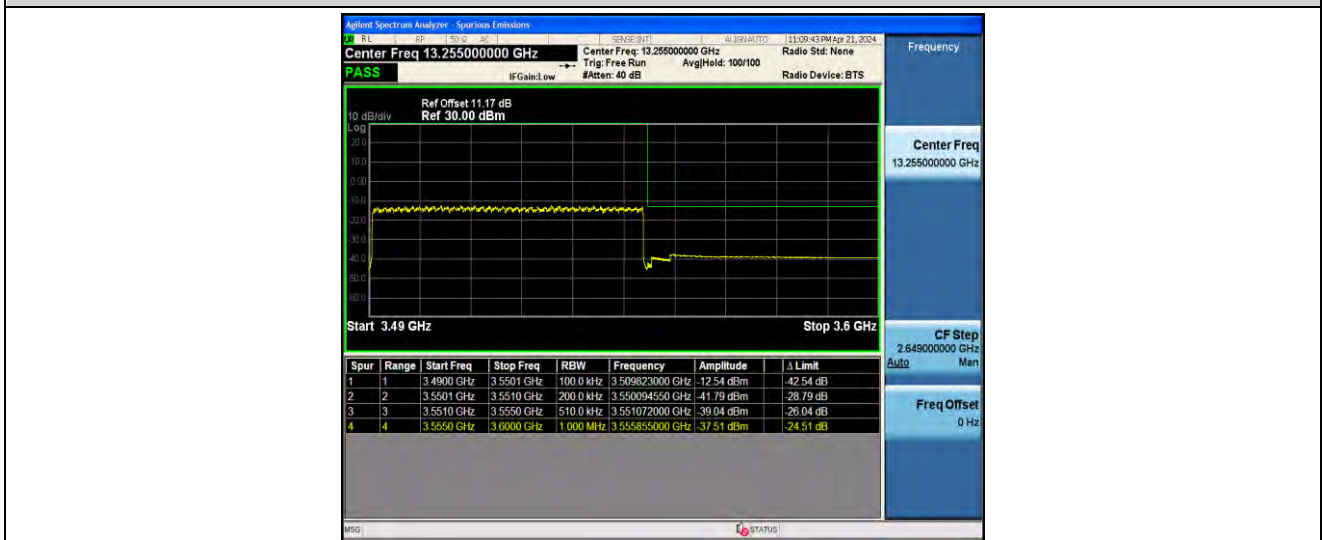


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1-N78-3450-3550-PC2-30-60-H-5-CP-QPSK-Edge\_1RB\_Right-1@161-ANT101-3599.51-26.42--39.42-PAS  
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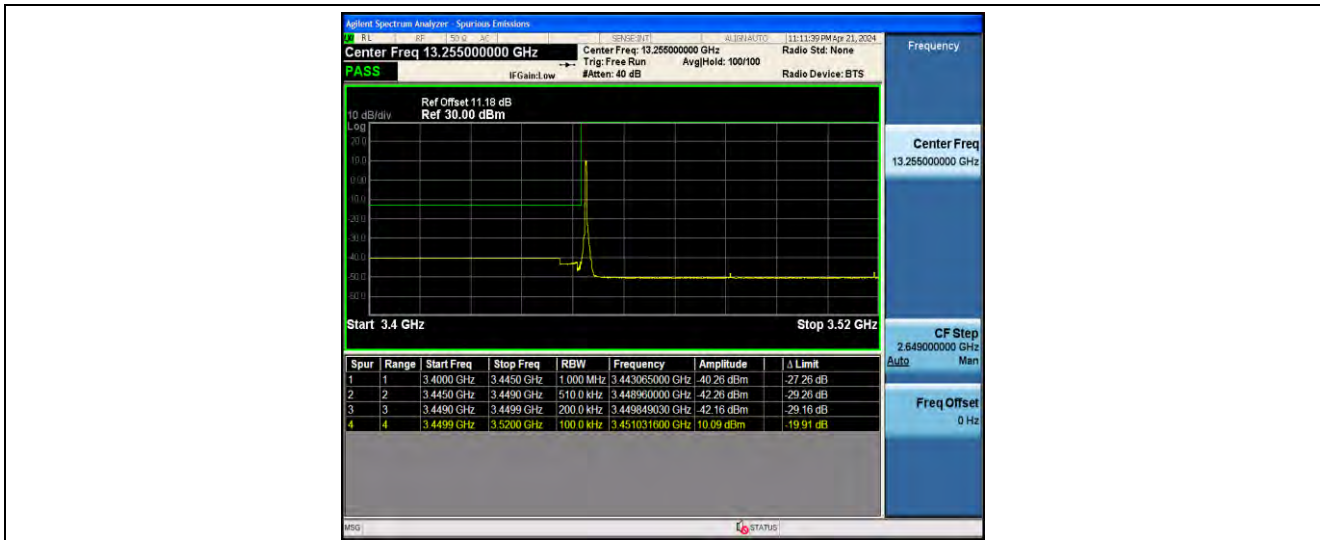
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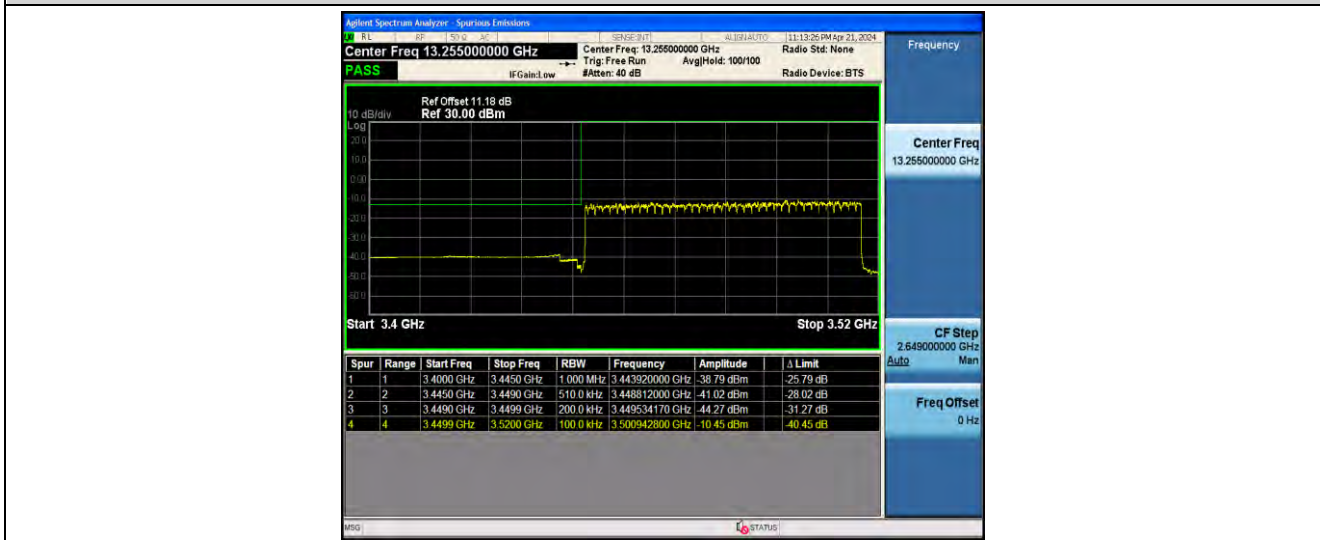


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1-N78-3450-3550-PC2-30-70-L-3-DFT-PI2BPSK-Outer\_Full-180@0-ANT101-3443.92-25.79--38.79-PASS



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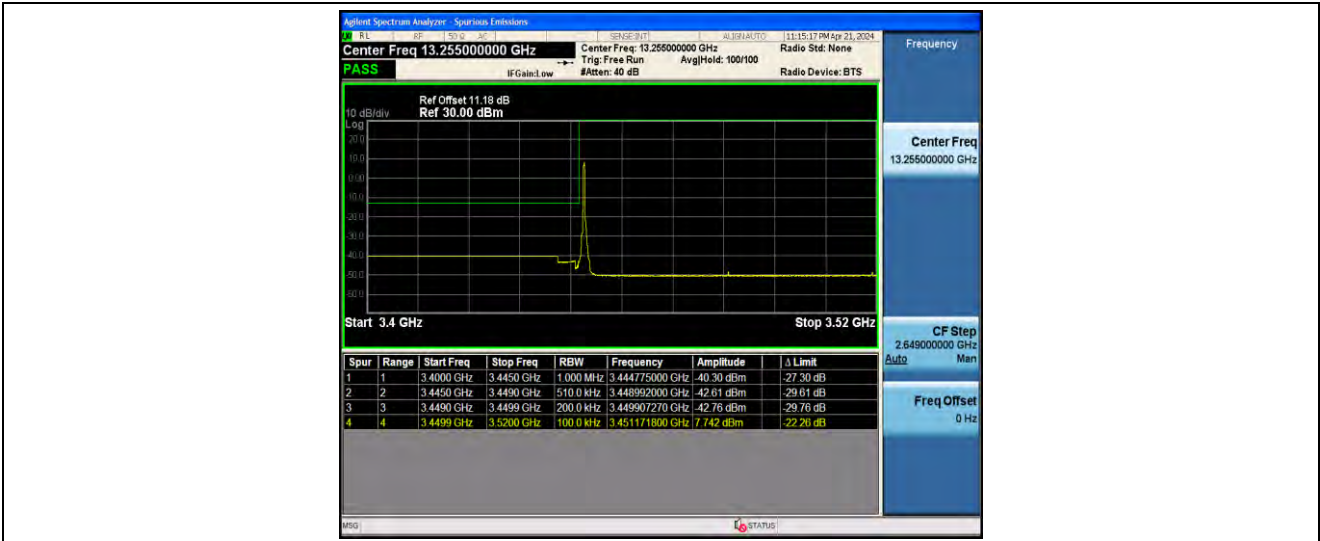
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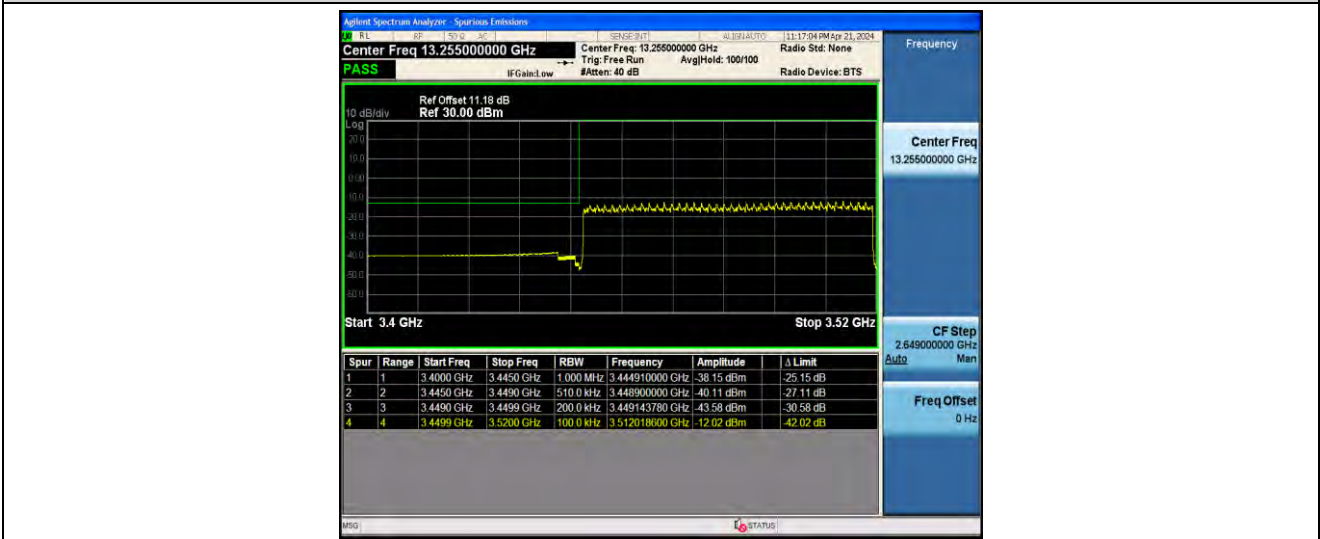


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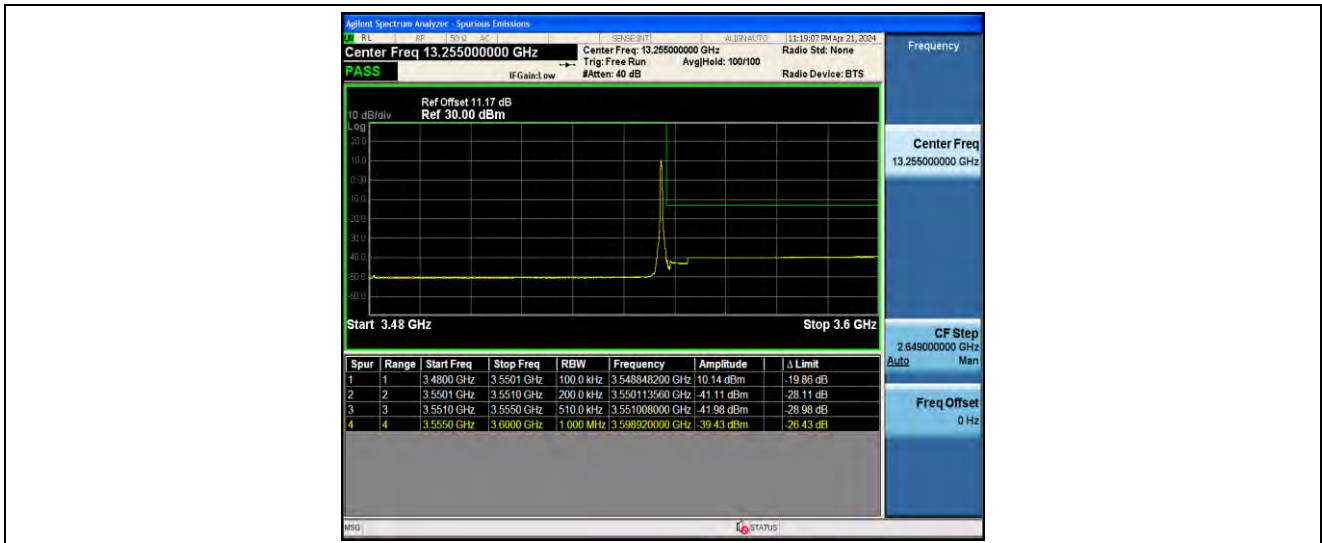
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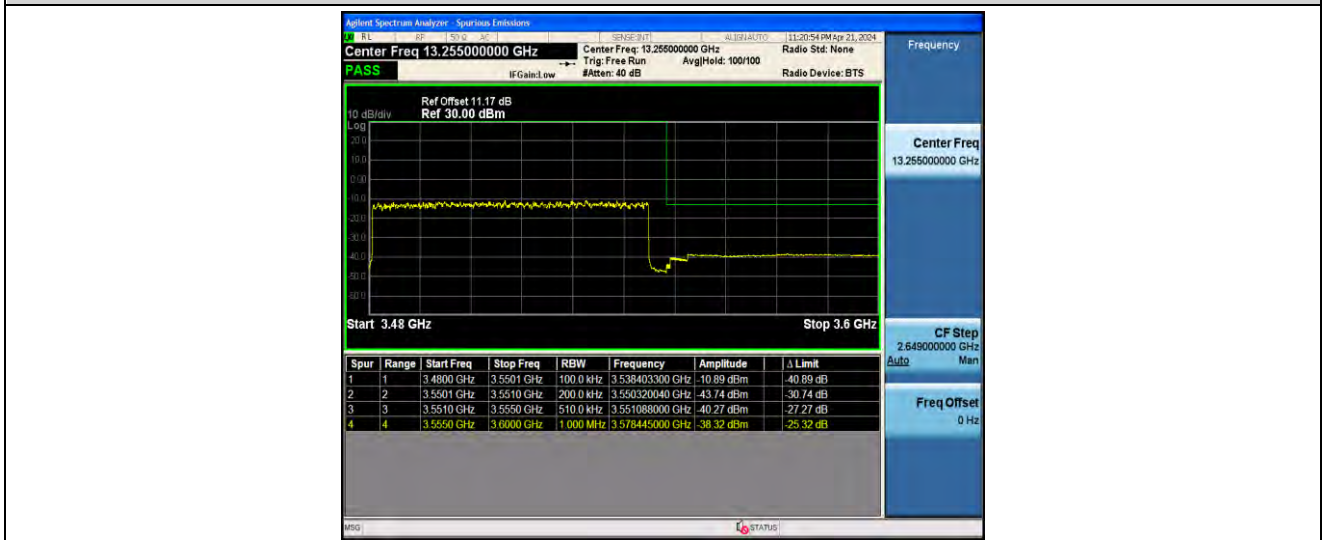


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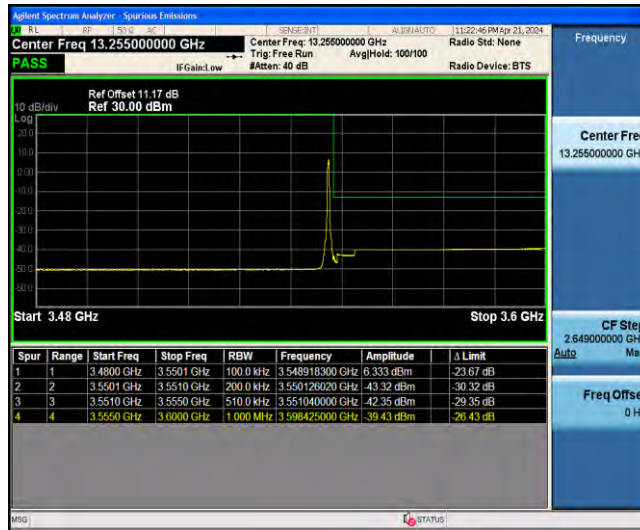
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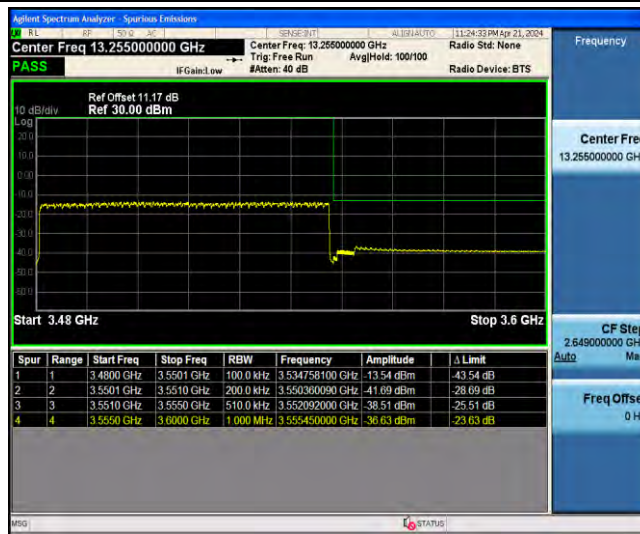


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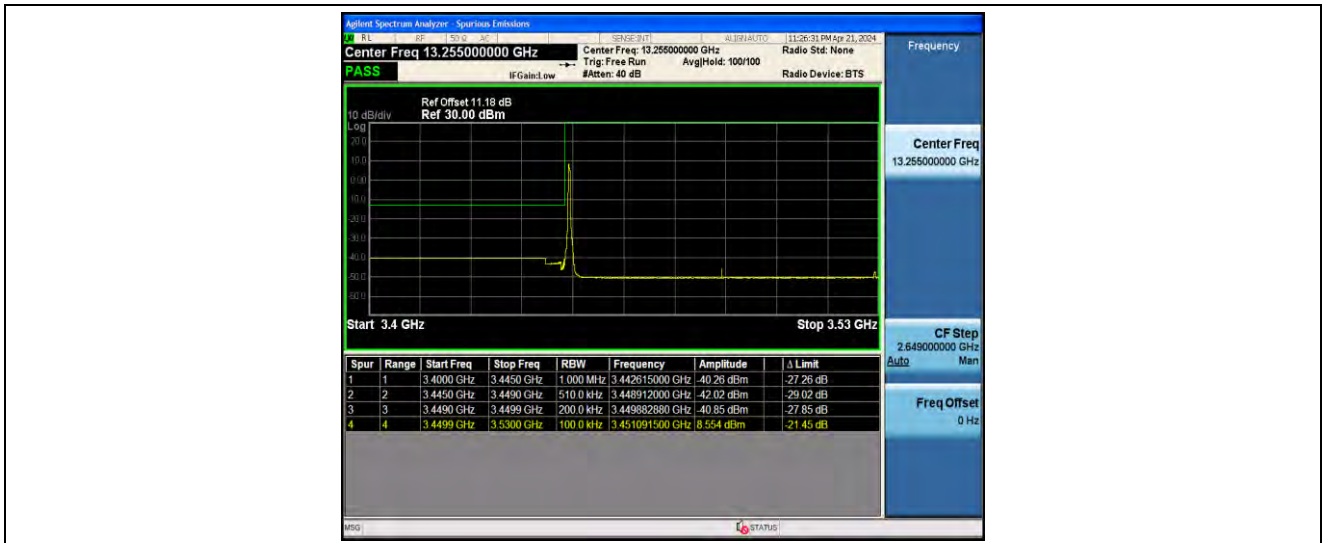
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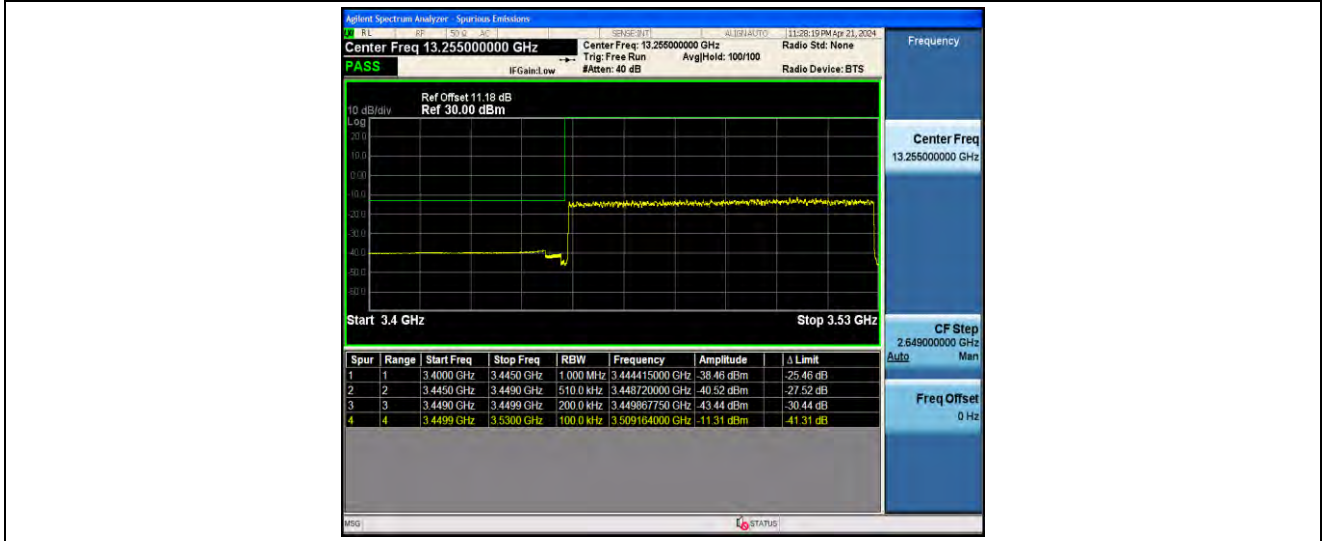


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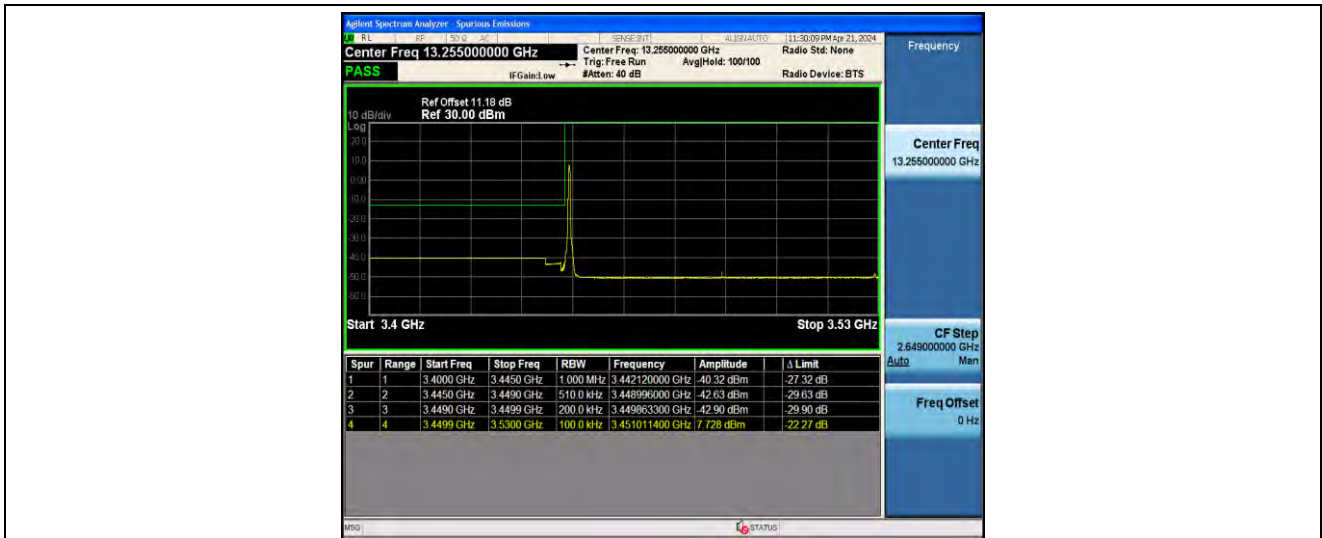


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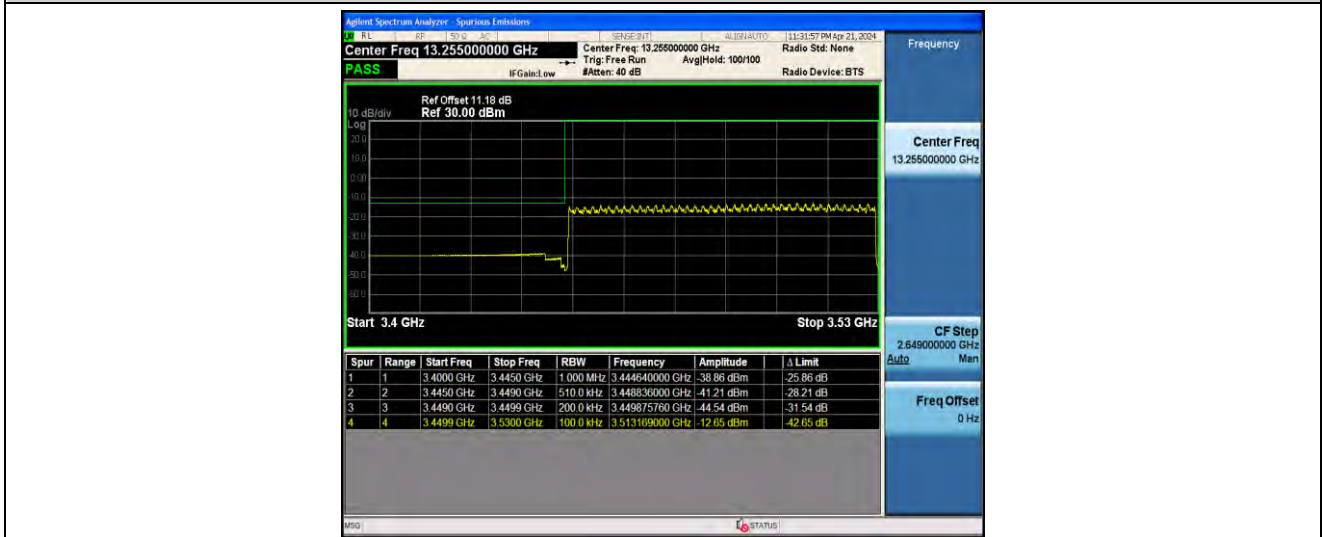


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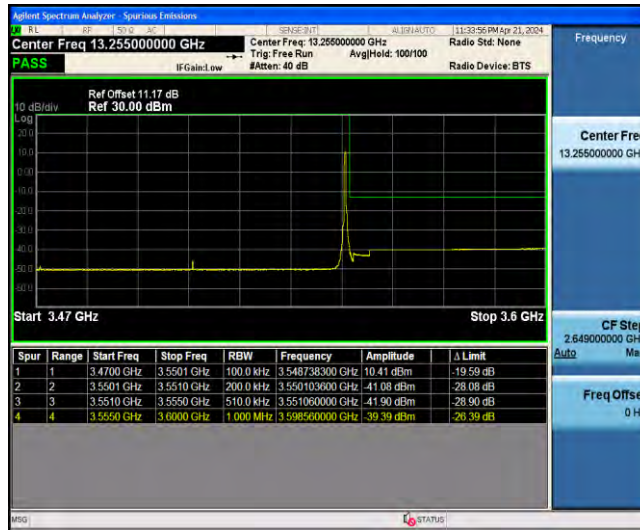
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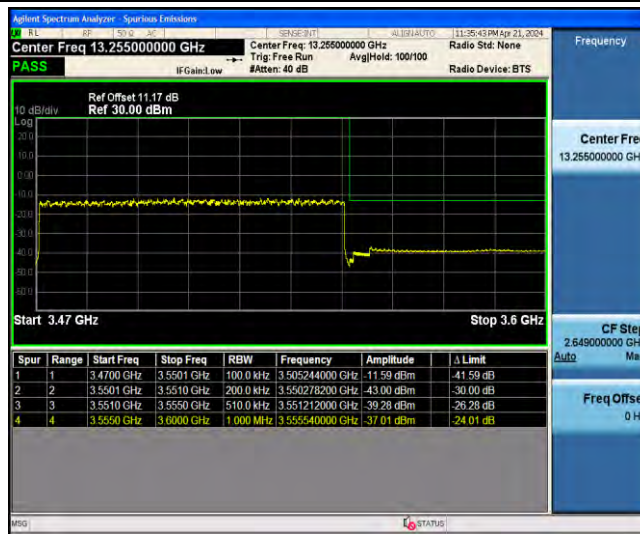


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1-N78-3450-3550-PC2-30-80-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@216-ANT101-3598.56-26.39--39.39-P  
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1-N78-3450-3550-PC2-30-80-H-3-DFT-PI2BPSK-Outer\_Full-216@0-ANT101-3555.54-24.01--37.01-PASS



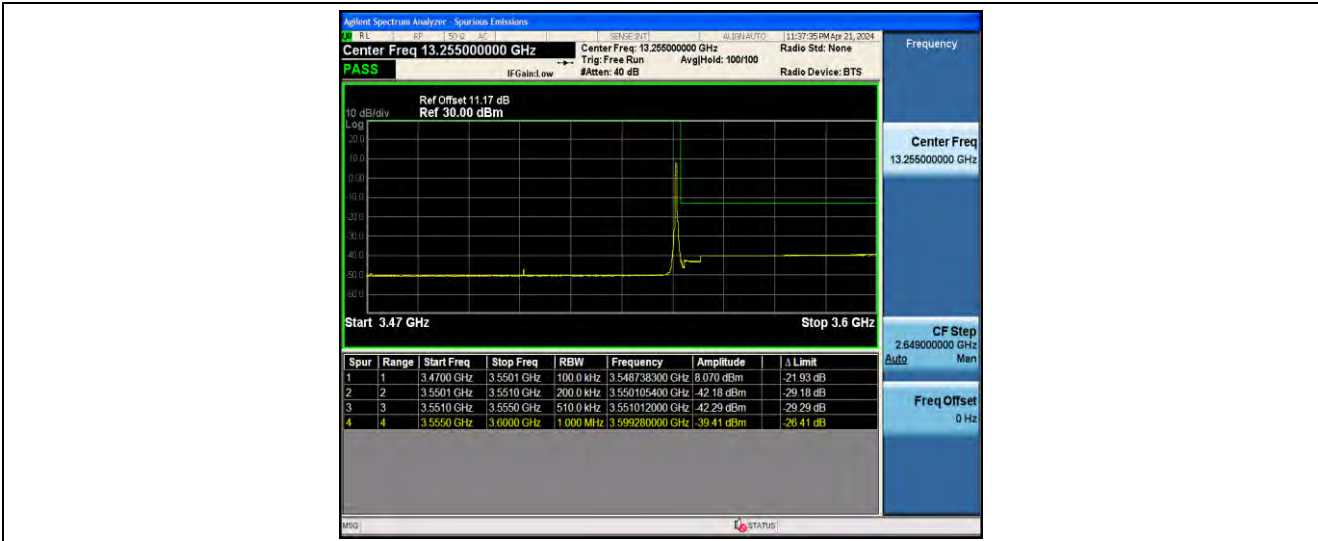
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1-N78-3450-3550-PC2-30-80-H-5-CP-QPSK-Edge\_1RB\_Right-1@216-ANT101-3599.28-26.41--39.41-PAS  
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1-N78-3450-3550-PC2-30-80-H-6-CP-QPSK-Outer\_Full-217@0-ANT101-3556.08-24.92--37.92-PASS



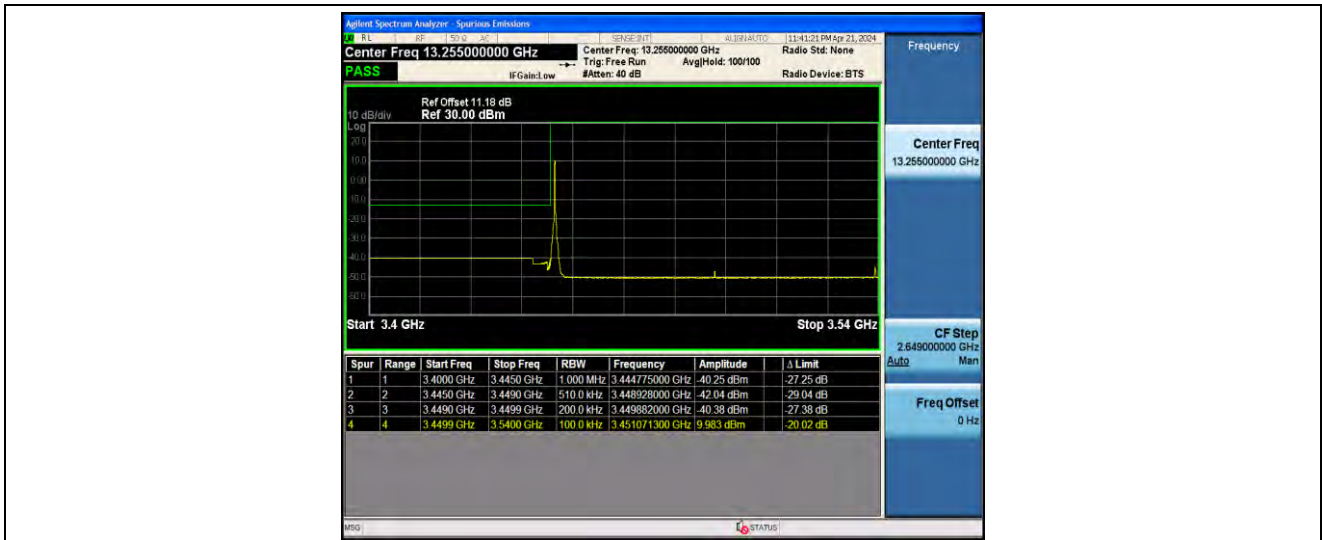
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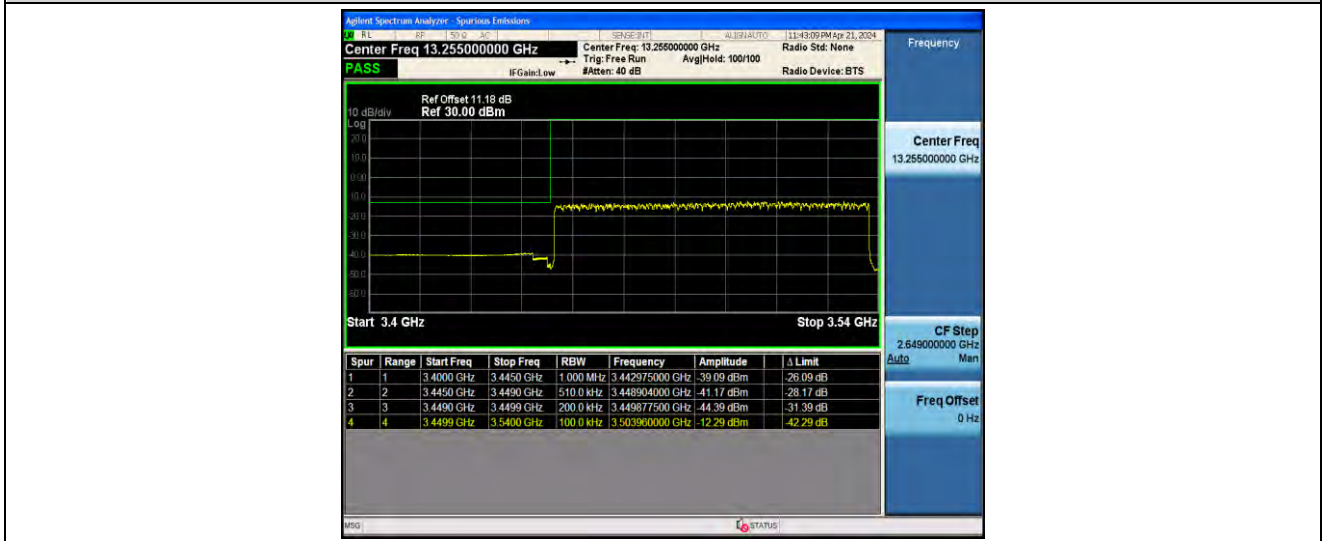


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1-N78-3450-3550-PC2-30-90-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-ANT101-3444.78-27.25--40.25-PAS  
 S



1-N78-3450-3550-PC2-30-90-L-3-DFT-PI2BPSK-Outer\_Full-240@0-ANT101-3442.98-26.09--39.09-PASS



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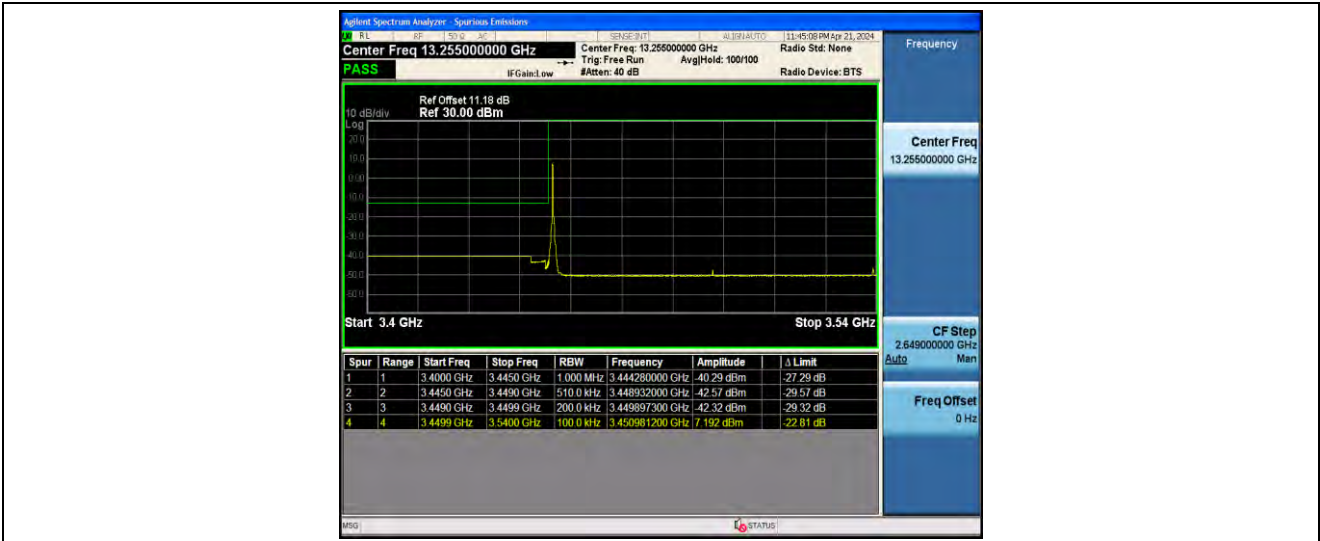
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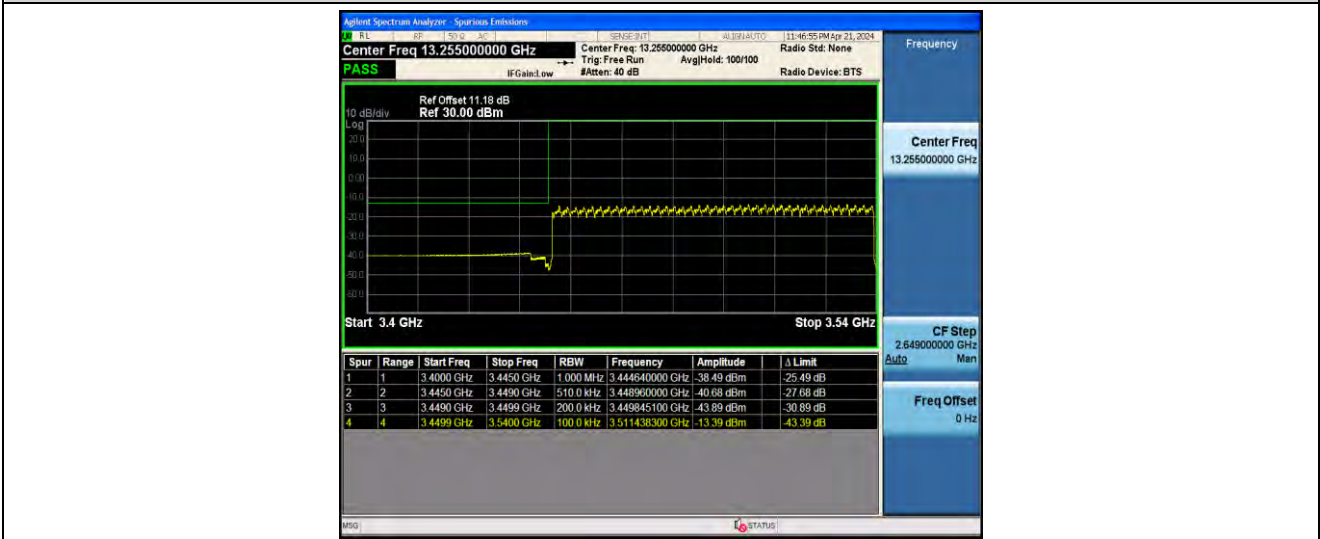


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1-N78-3450-3550-PC2-30-90-L-6-CP-QPSK-Outer\_Full-245@0-ANT101-3444.64-25.49--38.49-PASS



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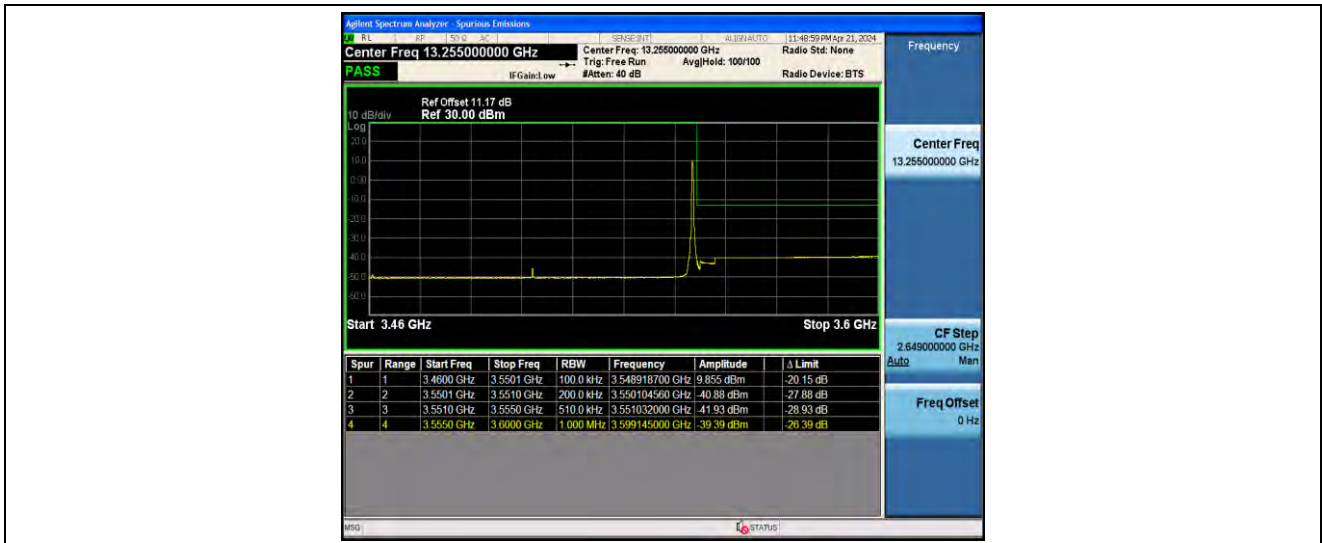
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1-N78-3450-3550-PC2-30-90-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@244-ANT101-3599.15-26.39--39.39-P ASS



1-N78-3450-3550-PC2-30-90-H-3-DFT-PI2BPSK-Outer\_Full-240@0-ANT101-3555.59-24.90--37.90-PASS



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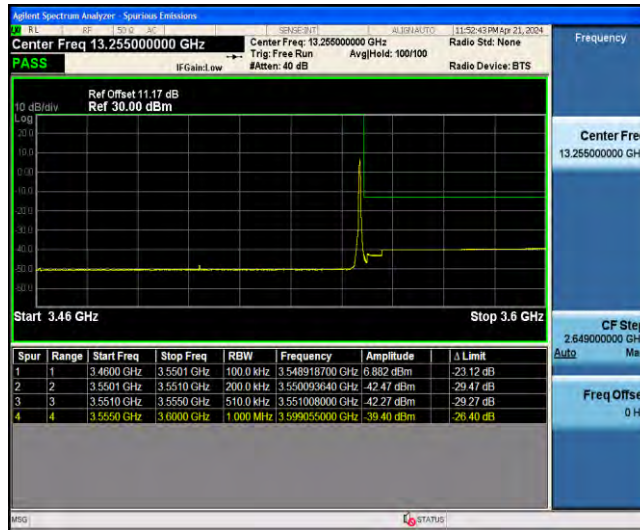
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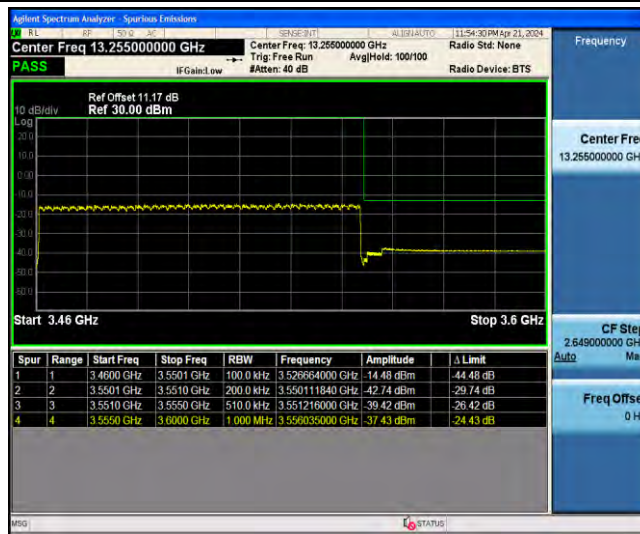


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1-N78-3450-3550-PC2-30-90-H-5-CP-QPSK-Edge\_1RB\_Right-1@244-ANT101-3599.06-26.40--39.40-PAS  
 S



1-N78-3450-3550-PC2-30-90-H-6-CP-QPSK-Outer\_Full-245@0-ANT101-3556.04-24.43--37.43-PASS



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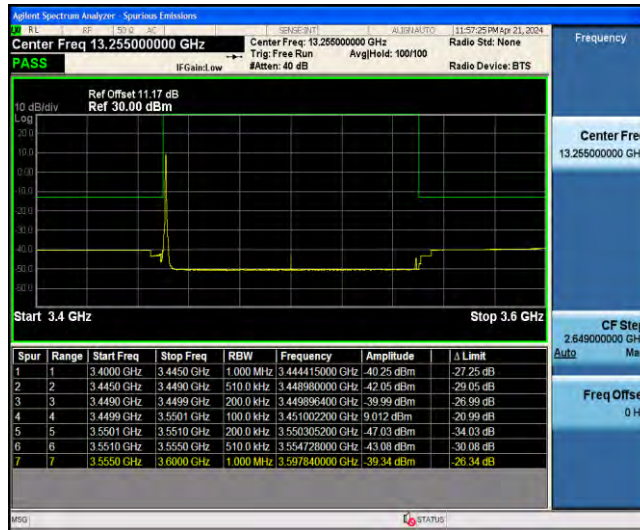
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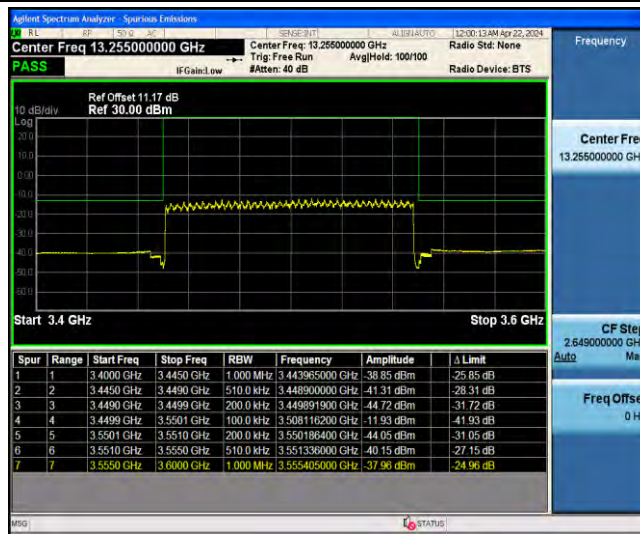


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1-N78-3450-3550-PC2-30-100-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-ANT101-3597.84-26.34--39.34-PAS  
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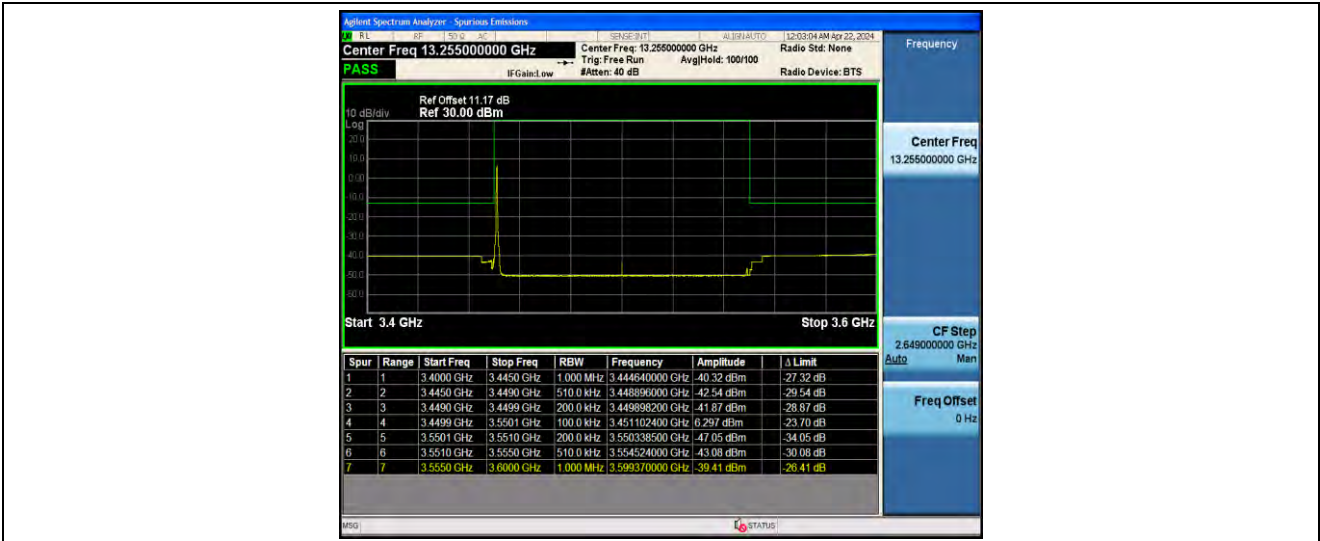
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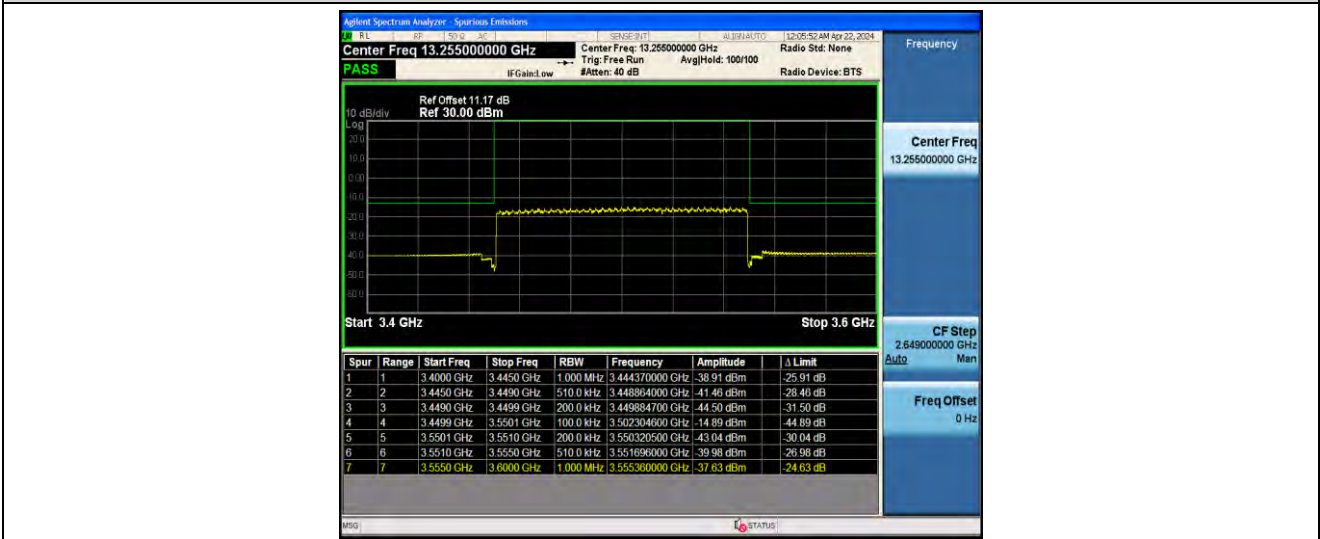


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1-N78-3450-3550-PC2-30-100-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-ANT101-3599.37-26.41--39.41-PASS



1-N78-3450-3550-PC2-30-100-L-6-CP-QPSK-Outer\_Full-273@0-ANT101-3555.36-24.63--37.63-PASS



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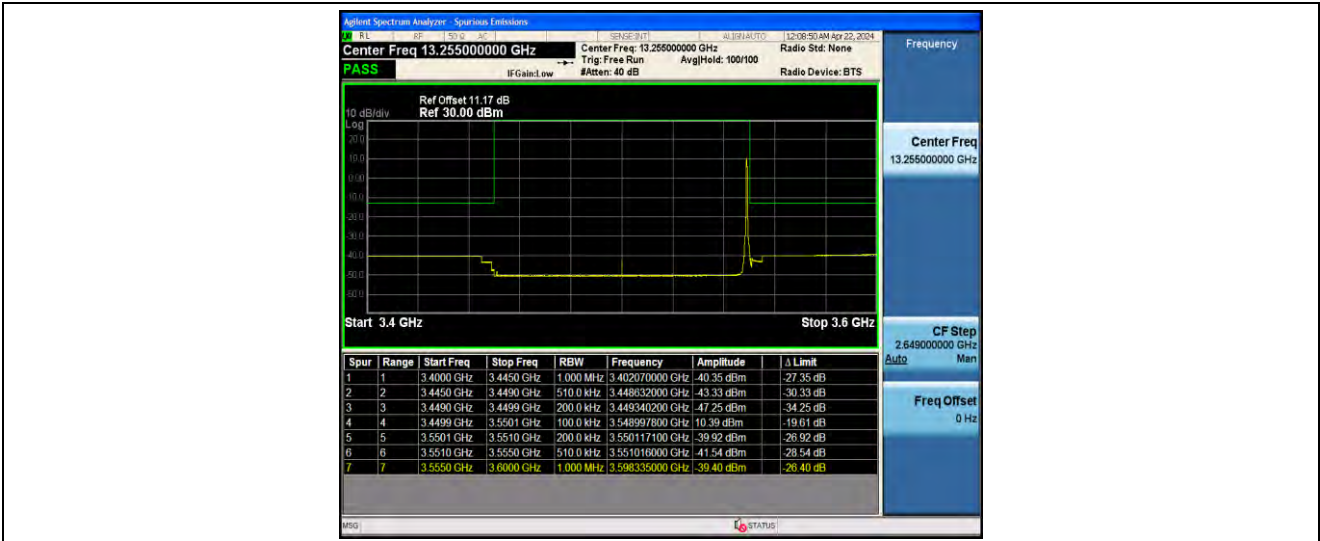
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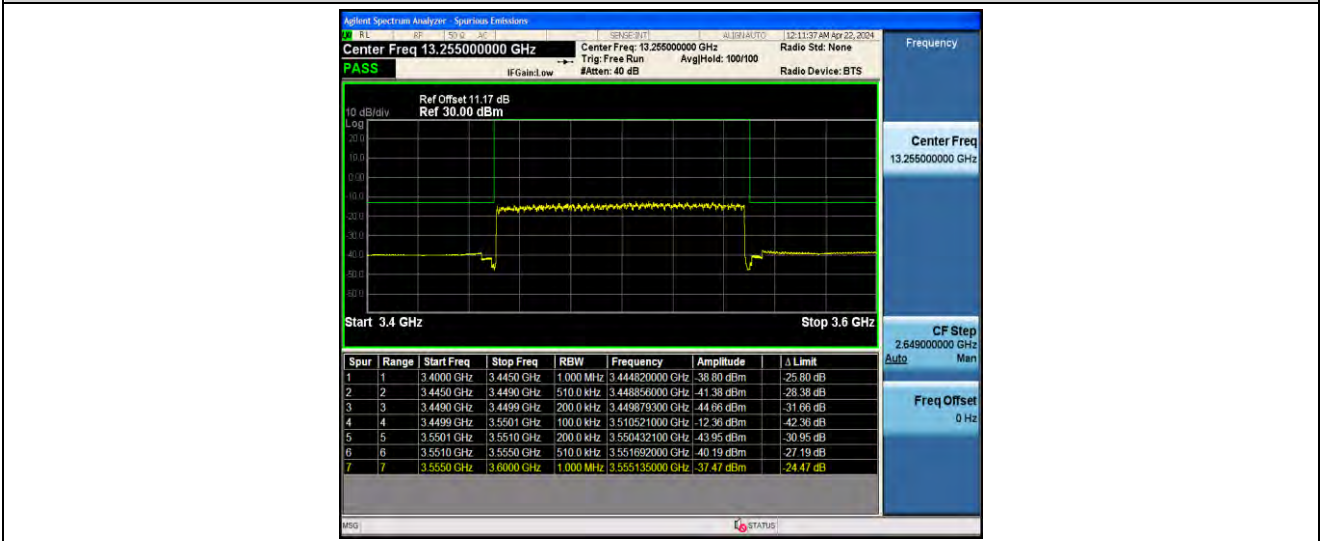


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1-N78-3450-3550-PC2-30-100-H-3-DFT-PI2BPSK-Outer\_Full-270@0-ANT101-3555.14-24.47--37.47-PASS



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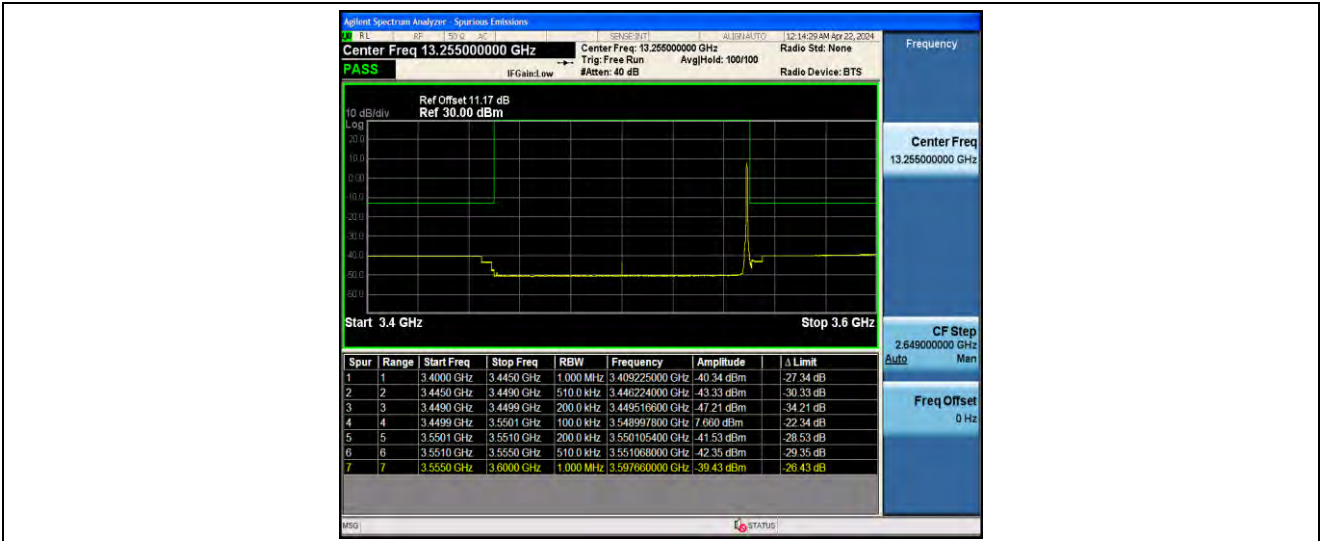
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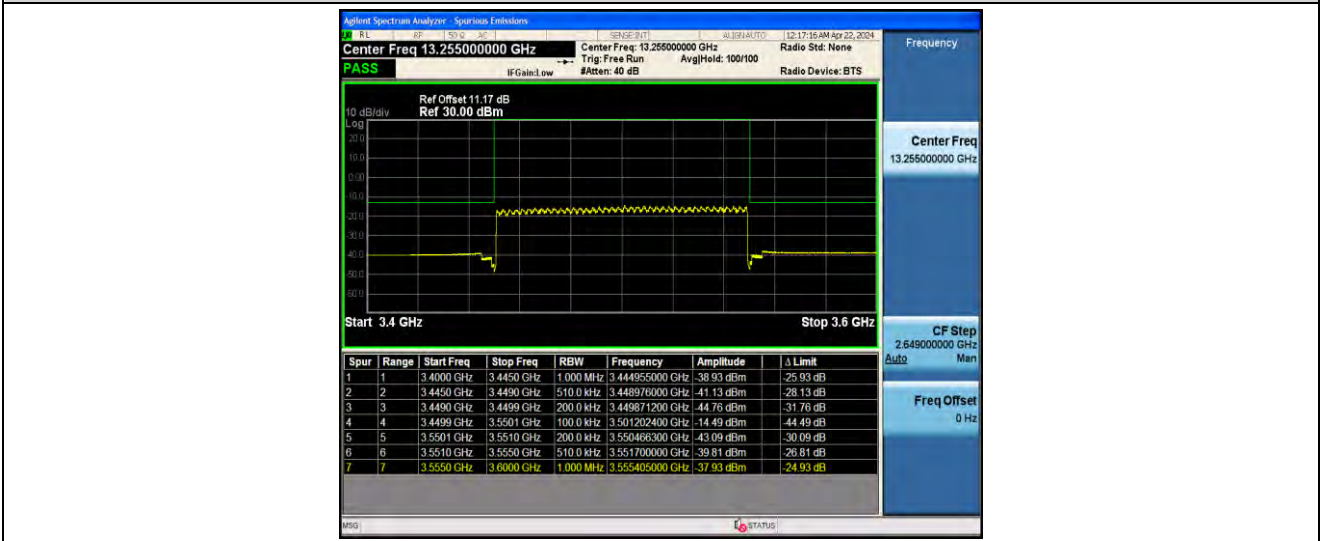


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## Conducted Spurious Emission for SA

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	StartFreq	StopFreq	RB Config	Result	Limit	Verdict
N78-3450-3550	30	100	DFT-PI2BPSK	M	0.009	0.15	1@1	-90.73	-43	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	0.15	30	1@1	-83.47	-33	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	30	1000	1@1	-54.86	-23	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	1000	3000	1@1	-43.75	-13	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	3000	6000	1@1	-38.40	-13	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	6000	26000	1@1	-35.02	-13	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	26000	40000	1@1	-42.66	-13	PASS



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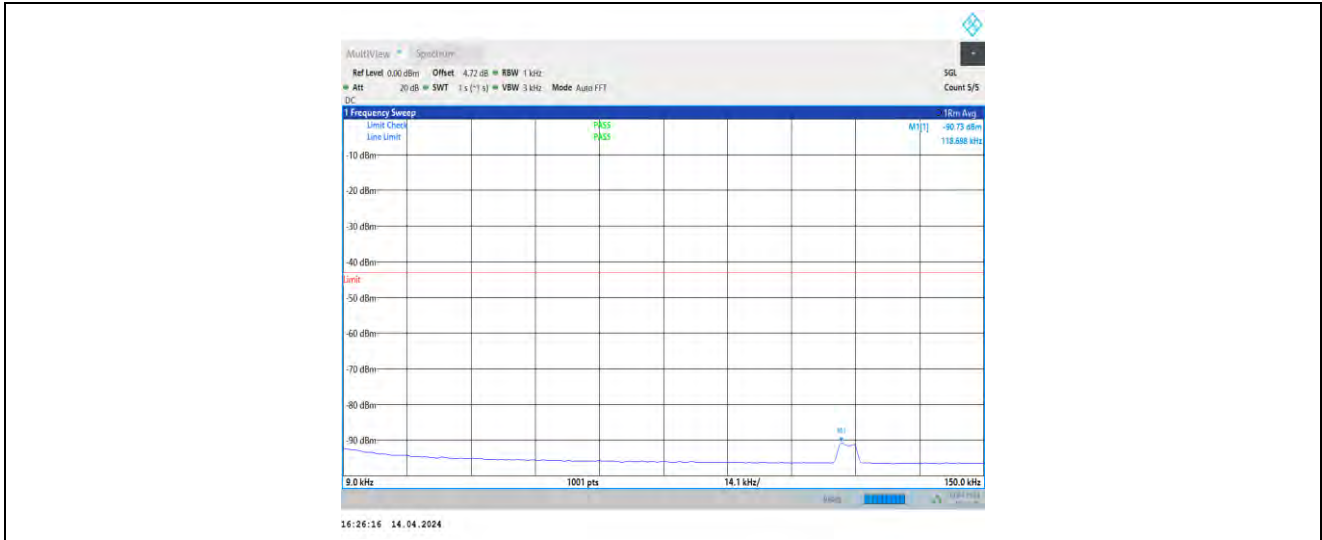
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**Test Graphs**



1-N78-3450-3550-PC2-30-100-M-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.009-0.15-ANT101-0.12--9  
 0.73--43-PASS



1-N78-3450-3550-PC2-30-100-M-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-ANT101-1.19--83.4  
 7--33-PASS



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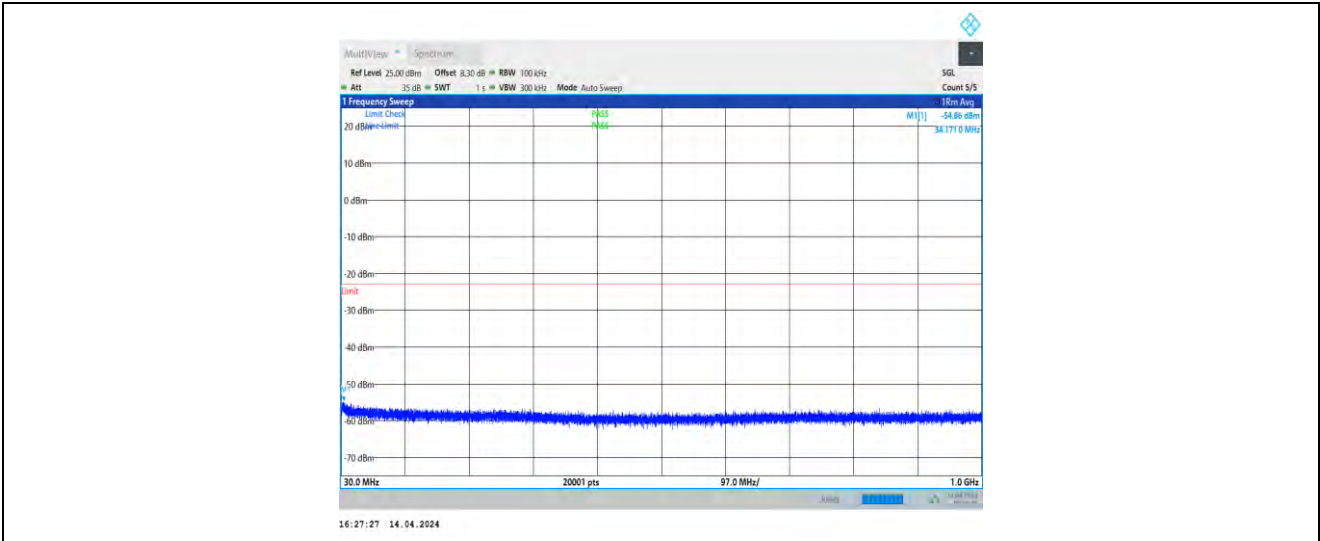
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1-N78-3450-3550-PC2-30-100-M-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-30-1000-ANT101-34.17--54.86--23-PASS



1-N78-3450-3550-PC2-30-100-M-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-1000-3000-ANT101-2405.20--43.75--13-PASS

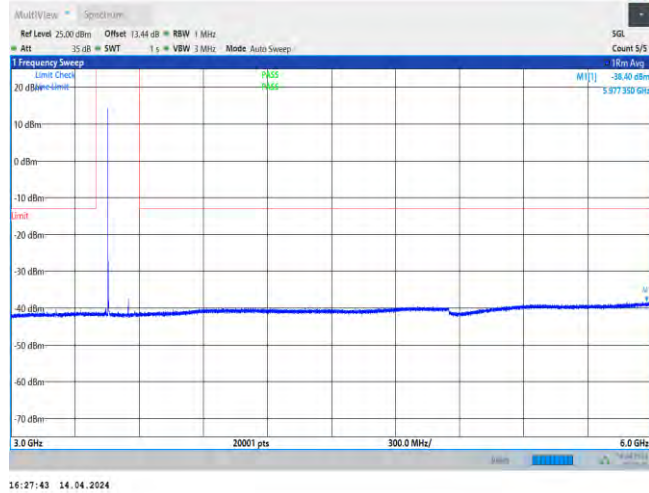


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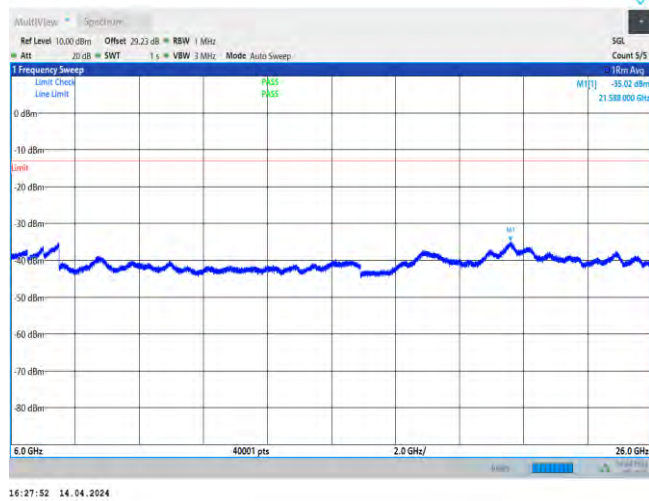
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1-N78-3450-3550-PC2-30-100-M-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-3000-6000-ANT101-5977.3  
 5--38.40--13-PASS



1-N78-3450-3550-PC2-30-100-M-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-6000-26000-ANT101-2158  
 8.00--35.02--13-PASS

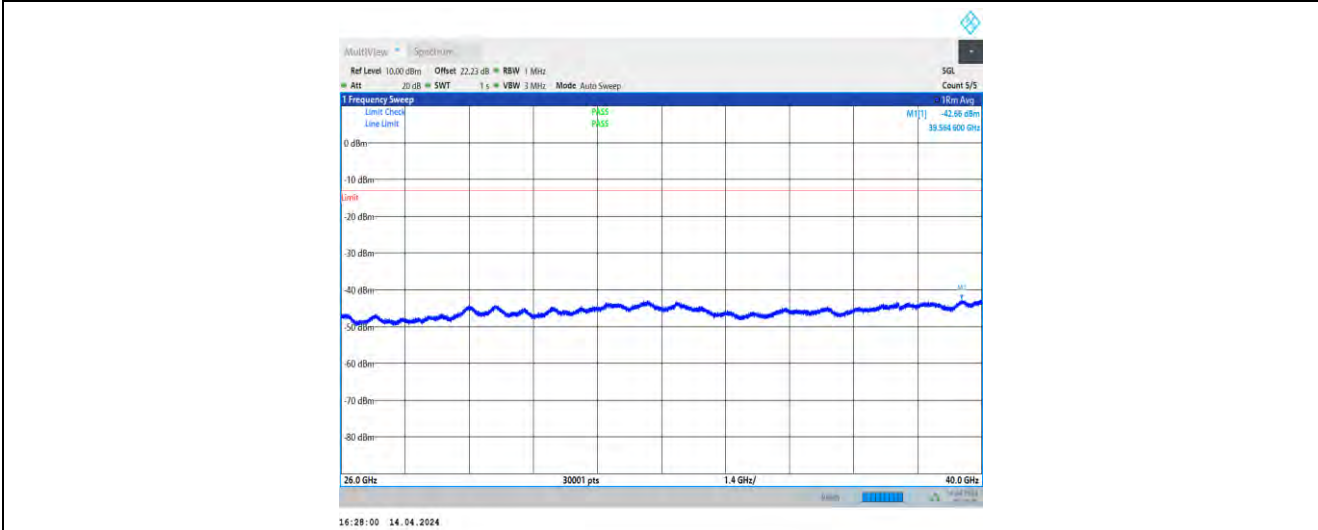


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1-N78-3450-3550-PC2-30-100-M-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-26000-40000-ANT101-395  
 64.60--42.66--13-PASS



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## Field Strength of Spurious Radiation

Test Band = n78 3450-3550 ANT13\_ TM1

Test Channel = mid

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6910.0000	43.28	35.59	-45.96	-62.35	-13.00	49.35	Horizontal
2	7743.7872	43.32	36.30	-44.21	-59.85	-13.00	46.85	Horizontal
3	9105.4553	41.37	36.34	-42.33	-59.88	-13.00	46.88	Horizontal
4	10365.0000	38.15	38.84	-40.40	-58.67	-13.00	45.67	Horizontal
5	13820.0000	36.20	41.18	-38.03	-55.91	-13.00	42.91	Horizontal
6	17275.0000	34.38	43.06	-36.69	-54.51	-13.00	41.51	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6910.0000	43.20	35.59	-45.96	-62.43	-13.00	49.43	Vertical
2	7987.5994	43.43	36.20	-44.11	-59.74	-13.00	46.74	Vertical
3	9362.4931	40.68	36.93	-41.92	-59.57	-13.00	46.57	Vertical
4	10365.0000	38.09	38.84	-40.40	-58.73	-13.00	45.73	Vertical
5	13820.0000	36.33	41.18	-38.03	-55.78	-13.00	42.78	Vertical
6	17275.0000	34.08	43.06	-36.69	-54.81	-13.00	41.81	Vertical



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**Test Band = DC\_2A\_n78A 3450-3550\_TM1**  
**Test Channel = mid**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6910.0000	43.25	35.59	-45.96	-62.38	-13.00	49.38	Horizontal
2	7578.7539	43.29	36.37	-44.48	-60.08	-13.00	47.08	Horizontal
3	8122.7311	42.56	36.19	-43.75	-60.26	-13.00	47.26	Horizontal
4	10365.0000	38.05	38.84	-40.40	-58.77	-13.00	45.77	Horizontal
5	13820.0000	35.72	41.18	-38.03	-56.39	-13.00	43.39	Horizontal
6	17275.0000	32.36	43.06	-36.69	-56.53	-13.00	43.53	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6910.0000	43.20	35.59	-45.96	-62.43	-13.00	49.43	Vertical
2	7579.904	43.37	36.37	-44.47	-59.99	-13.00	46.99	Vertical
3	8152.6326	42.42	36.18	-43.62	-60.28	-13.00	47.28	Vertical
4	10365.0000	38.19	38.84	-40.40	-58.63	-13.00	45.63	Vertical
5	13820.0000	35.89	41.18	-38.03	-56.22	-13.00	43.22	Vertical
6	17275.0000	32.59	43.06	-36.69	-56.30	-13.00	43.30	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

2) All antennas of RSE are tested, and only the worst data is presented.



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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 (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
N78-3450-3550	30	100	DFT-PI2BPSK	M	270@0	VH	NT	-9.40	0.00	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	270@0	VN	NT	-6.40	0.00	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	270@0	VL	NT	15.00	0.00	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	VH	NT	12.60	0.00	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	VN	NT	-12.00	0.00	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	VL	NT	10.70	0.00	PASS



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## Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
N78-3450-3550	30	100	DFT-PI2BPSK	M	270@0	NV	50	18.800000	0.005371	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	270@0	NV	-20	-6.100000	-0.001743	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	270@0	NV	-10	6.700000	0.001914	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	270@0	NV	0	10.300000	0.002943	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	270@0	NV	10	-11.300000	-0.003229	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	270@0	NV	20	11.500000	0.003286	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	270@0	NV	30	-7.100000	-0.002029	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	270@0	NV	-30	12.000000	0.003429	PASS
N78-3450-3550	30	100	DFT-PI2BPSK	M	270@0	NV	40	12.700000	0.003629	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	NV	50	-6.500000	-0.001857	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	NV	-20	-7.700000	-0.002200	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	NV	-10	3.100000	0.000886	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	NV	0	-14.500000	-0.004143	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	NV	10	10.700000	0.003057	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	NV	20	13.200000	0.003771	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	NV	30	-8.500000	-0.002429	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	NV	40	7.300000	0.002086	PASS
N78-3450-3550	30	100	CP-QPSK	M	273@0	NV	-30	-7.200000	-0.002057	PASS

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