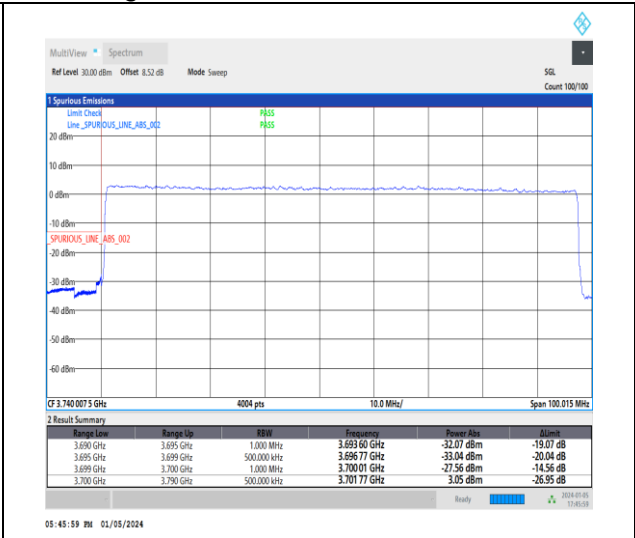
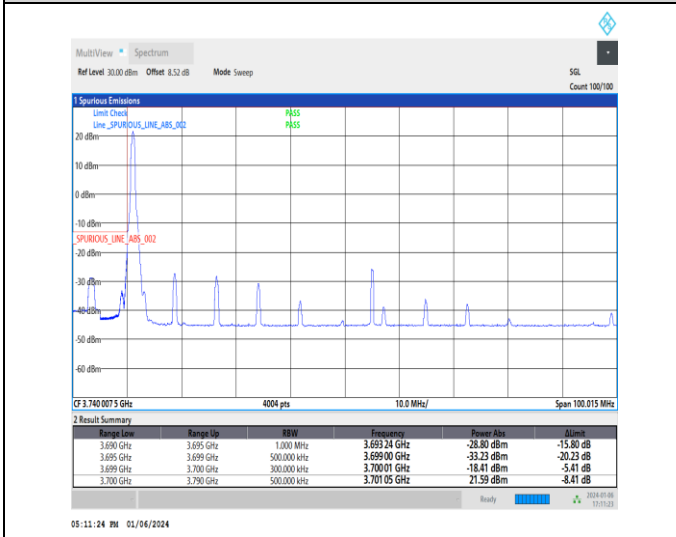


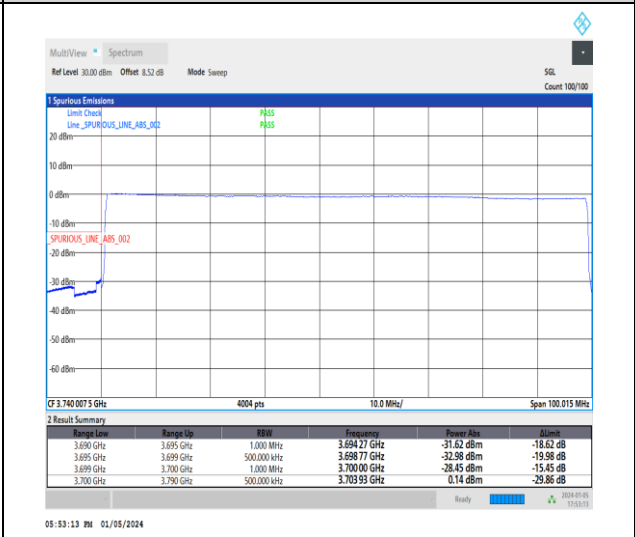
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\_Left-1@0-Ant2-1--PASS-see graph



1-N77-3700-3980-30-90-L-3-DFT-PI2BPSK-Outer  
\_Full-240@0-Ant2-1--PASS-see graph



1-N77-3700-3980-30-90-L-4-CP-QPSK-Edge\_1RB\_Lef  
t-1@0-Ant2-1--PASS-see graph



1-N77-3700-3980-30-90-L-6-CP-QPSK-Outer\_Full  
-245@0-Ant2-1--PASS-see graph

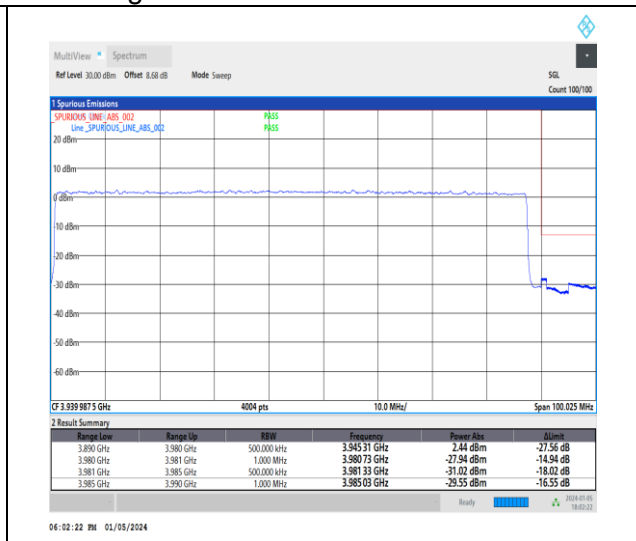
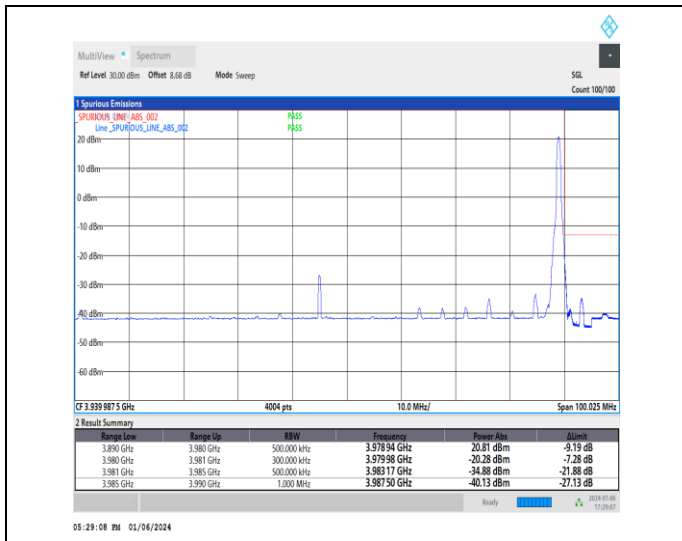


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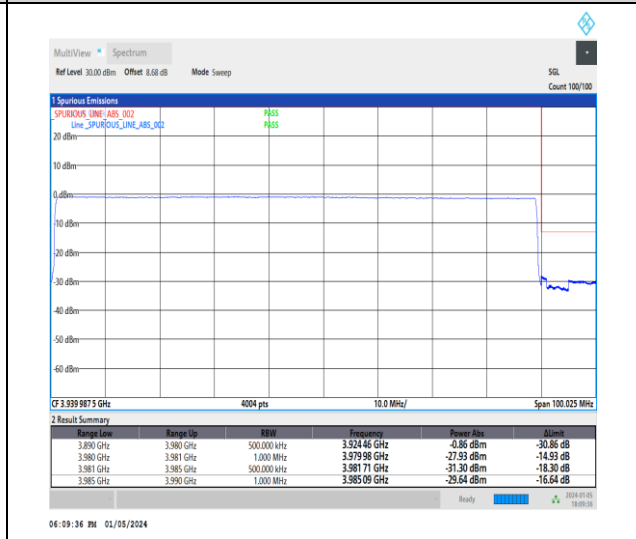
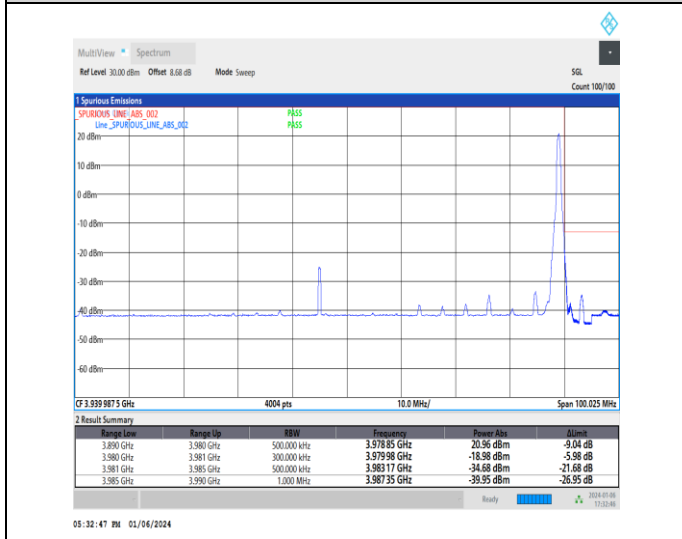
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1-N77-3700-3980-30-90-H-2-DFT-PI2BPSK-Edge\_1R\_B\_Right-1@244-Ant2-1--PASS-see graph

1-N77-3700-3980-30-90-H-3-DFT-PI2BPSK-Outer\_Full-240@0-Ant2-1--PASS-see graph



1-N77-3700-3980-30-90-H-5-CP-QPSK-Edge\_1RB\_Right-1@244-Ant2-1--PASS-see graph

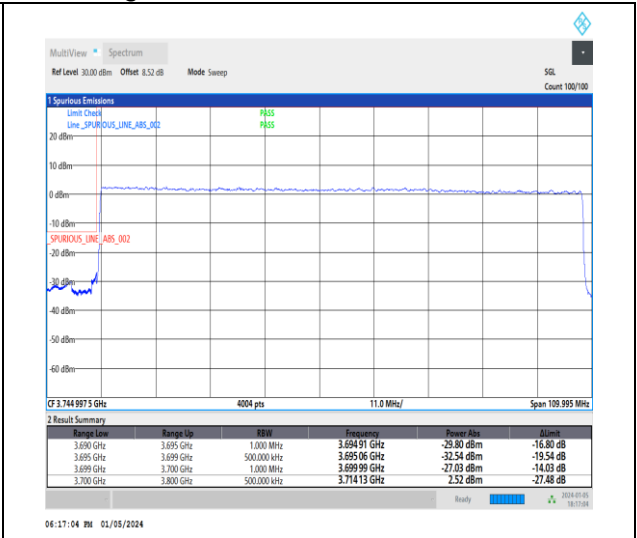
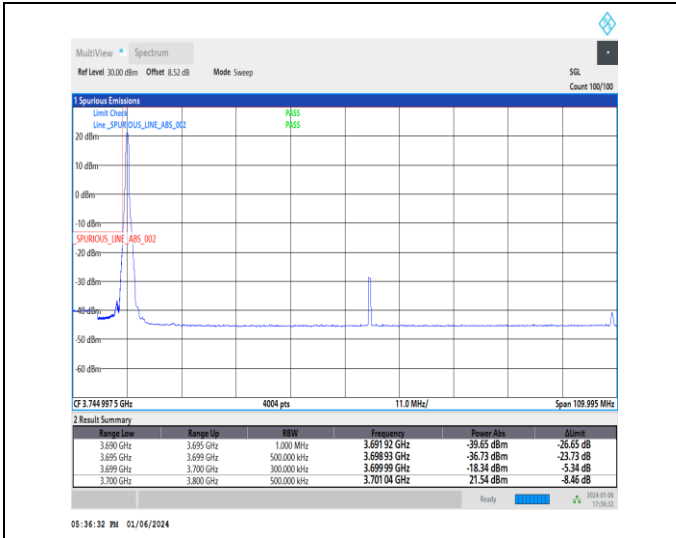
1-N77-3700-3980-30-90-H-6-CP-QPSK-Outer\_Full-245@0-Ant2-1--PASS-see graph



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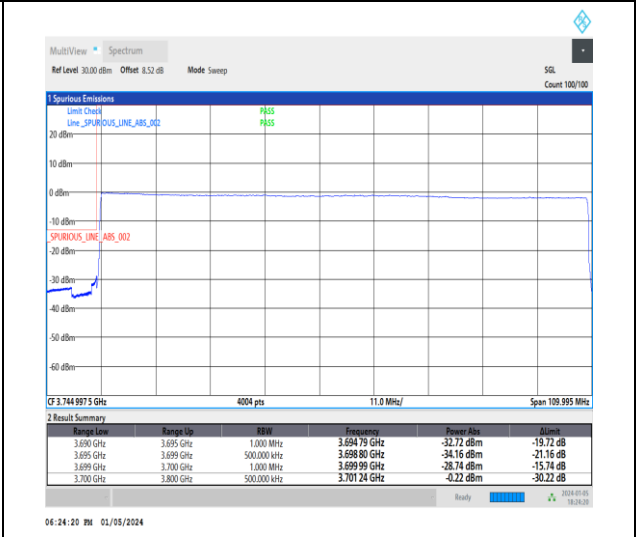
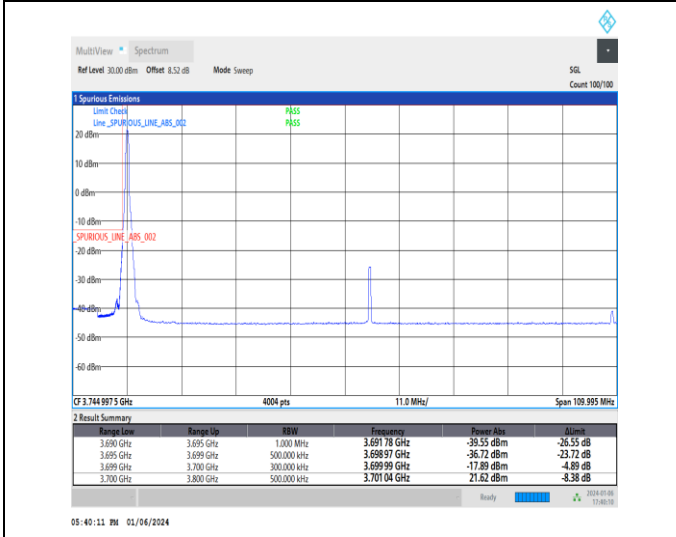
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1-N77-3700-3980-30-100-L-1-DFT-PI2BPSK-Edge\_1R\_B\_Left-1@0-Ant2-1--PASS-see graph

1-N77-3700-3980-30-100-L-3-DFT-PI2BPSK-Outer\_Full-270@0-Ant2-1--PASS-see graph



1-N77-3700-3980-30-100-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant2-1--PASS-see graph

1-N77-3700-3980-30-100-L-6-CP-QPSK-Outer\_Full-273@0-Ant2-1--PASS-see graph

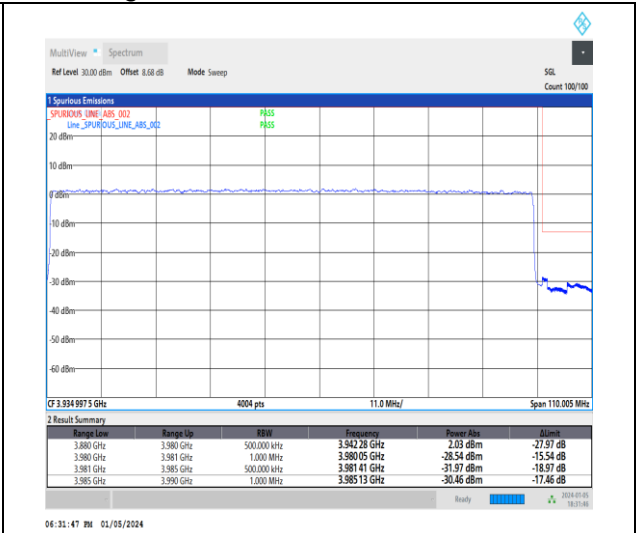
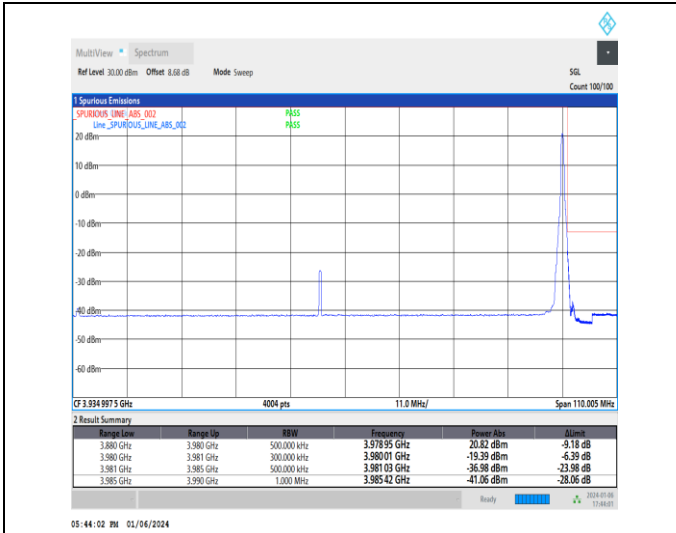


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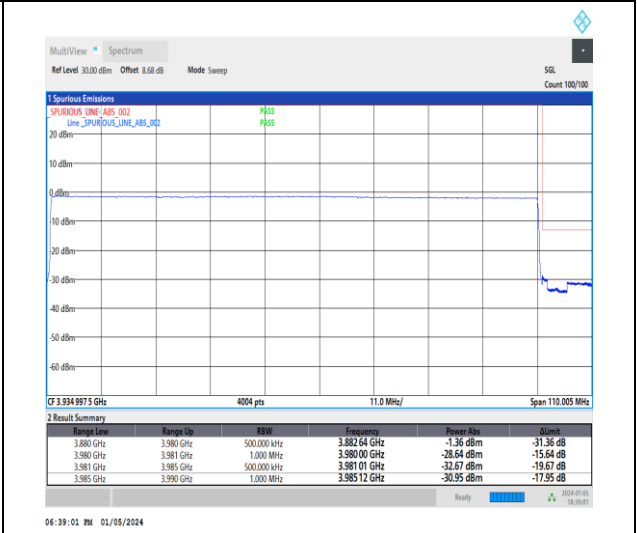
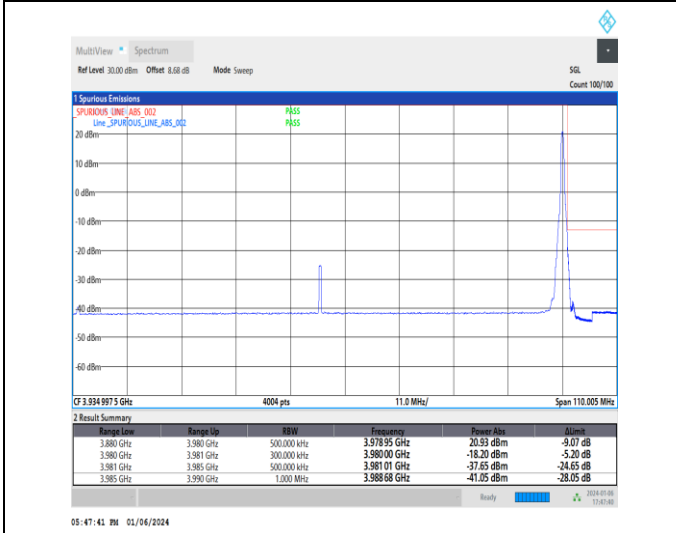
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1-N77-3700-3980-30-100-H-2-DFT-PI2BPSK-Edge\_1R\_B\_Right-1@272-Ant2-1--PASS-see graph

1-N77-3700-3980-30-100-H-3-DFT-PI2BPSK-Outer\_Full-270@0-Ant2-1--PASS-see graph



1-N77-3700-3980-30-100-H-5-CP-QPSK-Edge\_1RB\_Right-1@272-Ant2-1--PASS-see graph

1-N77-3700-3980-30-100-H-6-CP-QPSK-Outer\_Full-273@0-Ant2-1--PASS-see graph



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## Conducted Spurious Emission for SA

### Test Graphs

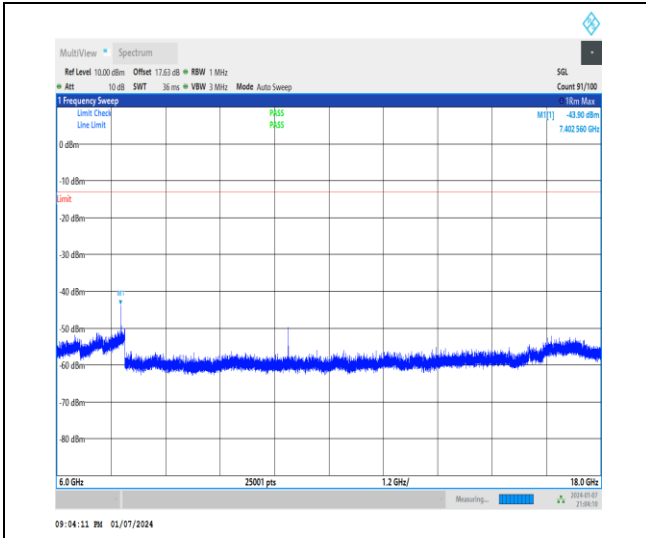
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<p>1-N77-3700-3980-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant2-70.74--65.67--13-PAS S</p>	<p>1-N77-3700-3980-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant2-5765.50--33.12--13-P ASS</p>



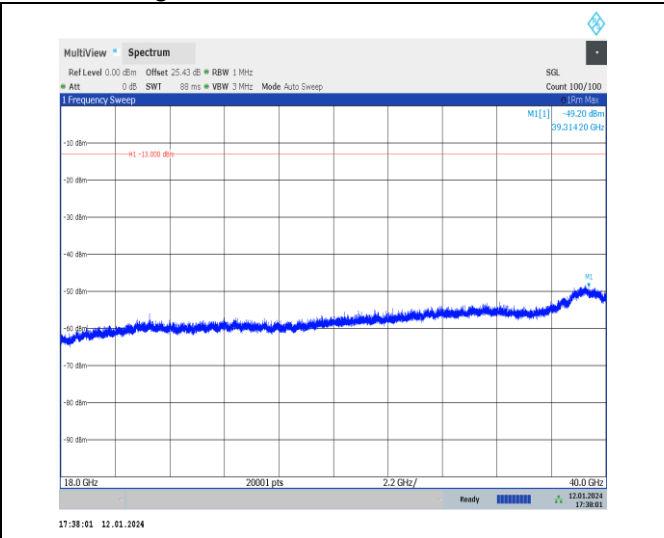
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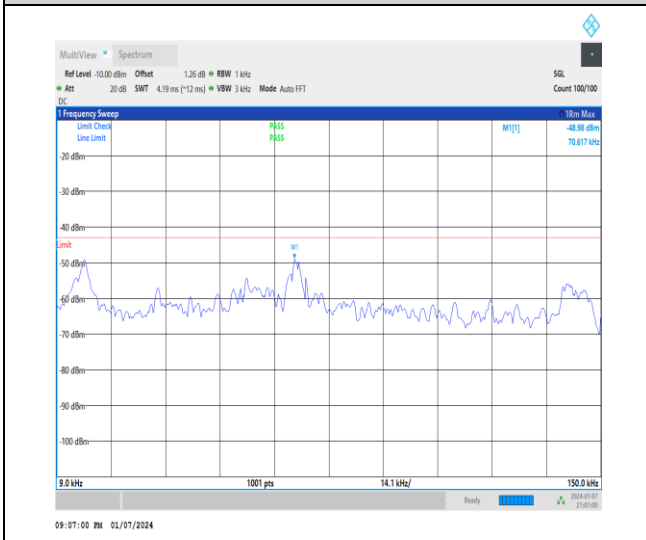
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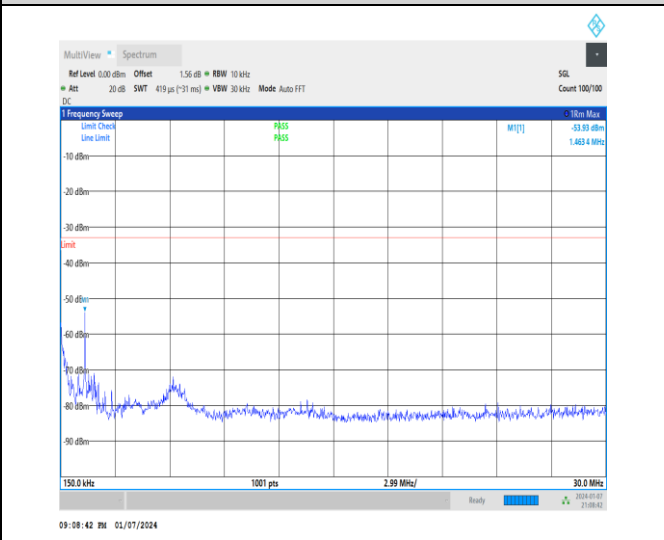
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1-N77-3700-3980-30-100-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-18000-40000-Ant2-18000.00--49.20--1 3-PASS



1-N77-3700-3980-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.009-0.15-Ant2-0.04--48.98--43-PASS



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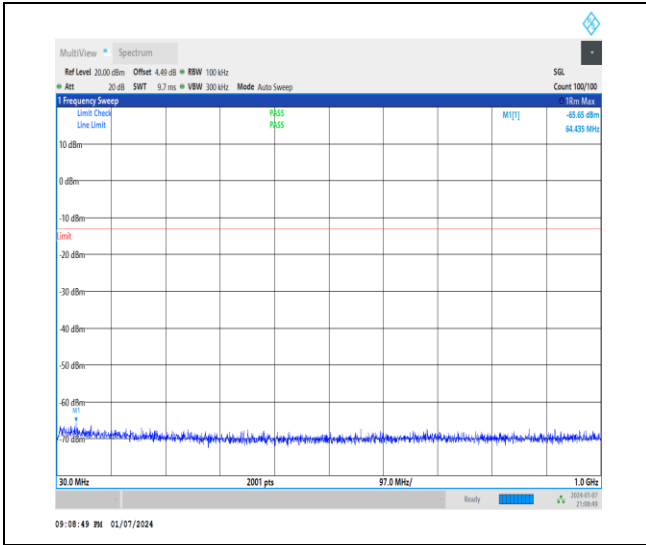


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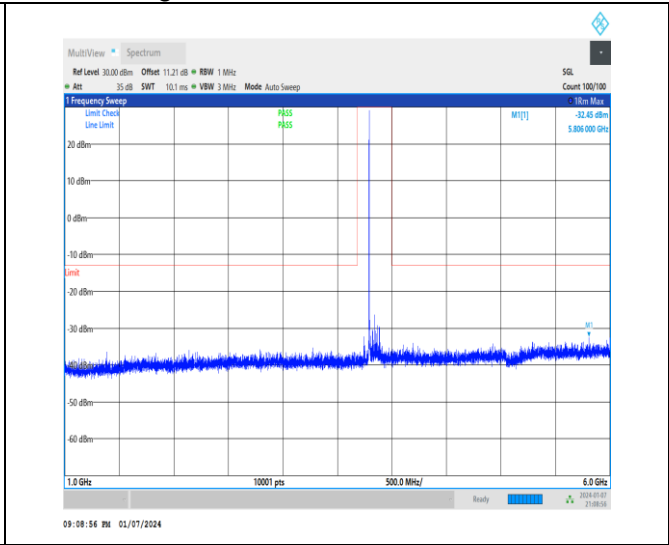
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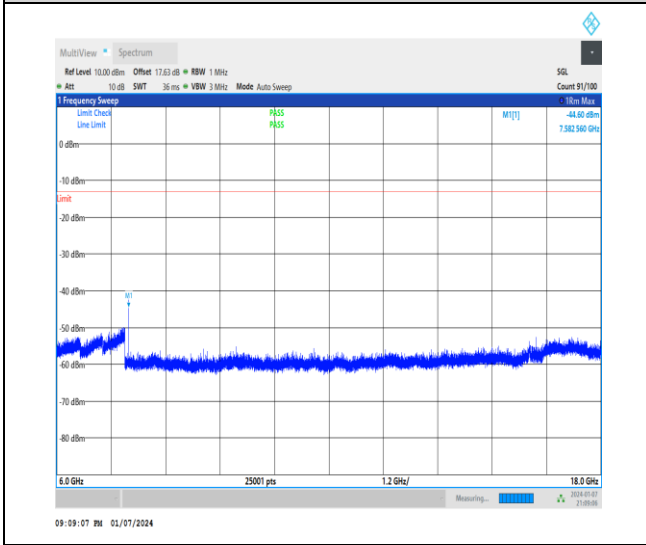
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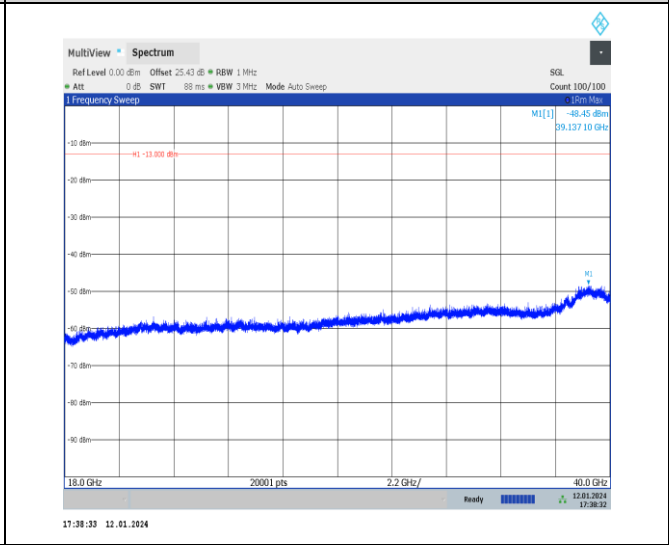
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1-N77-3700-3980-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-1000-6000-Ant2-5400.50--32.45--13-P ASS



1-N77-3700-3980-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-6000-18000-Ant2-7582.56--49.29--1 3-PASS



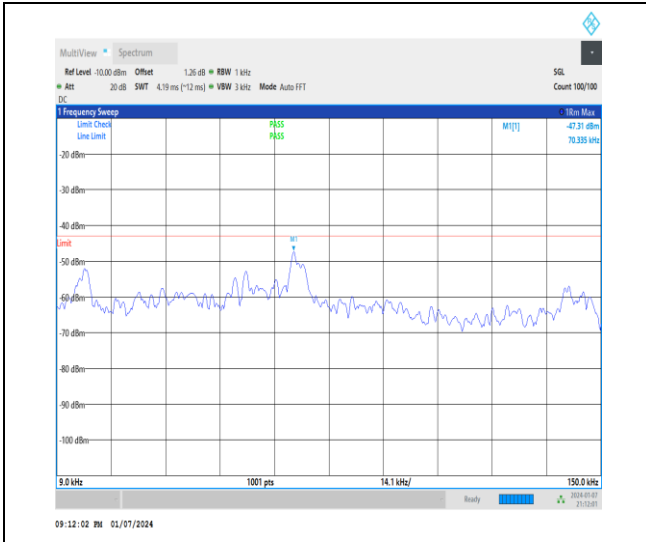
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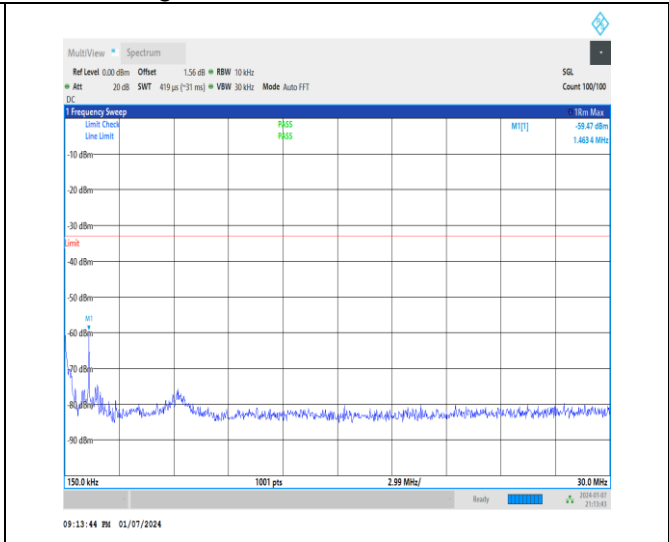
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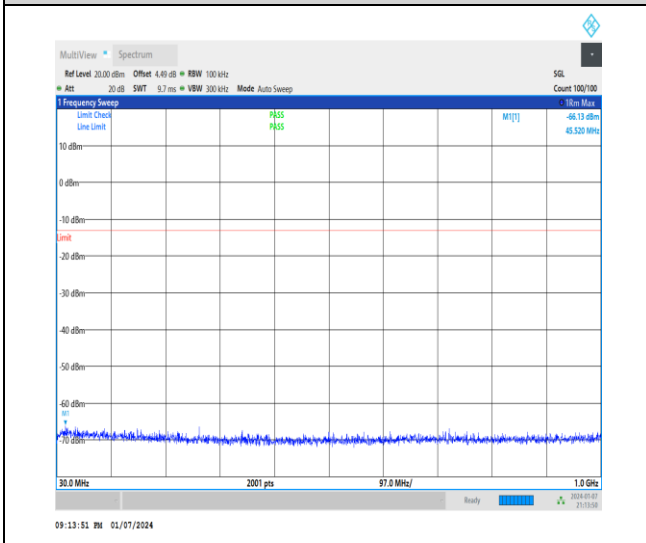
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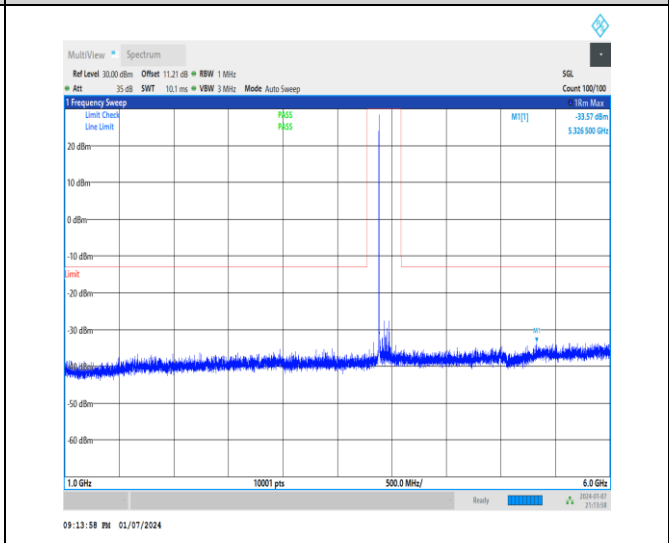
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1-N77-3700-3980-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-Ant2-29.52--59.47--33-PASS



1-N77-3700-3980-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-30-1000-Ant2-173.56--66.13--13-PA SS



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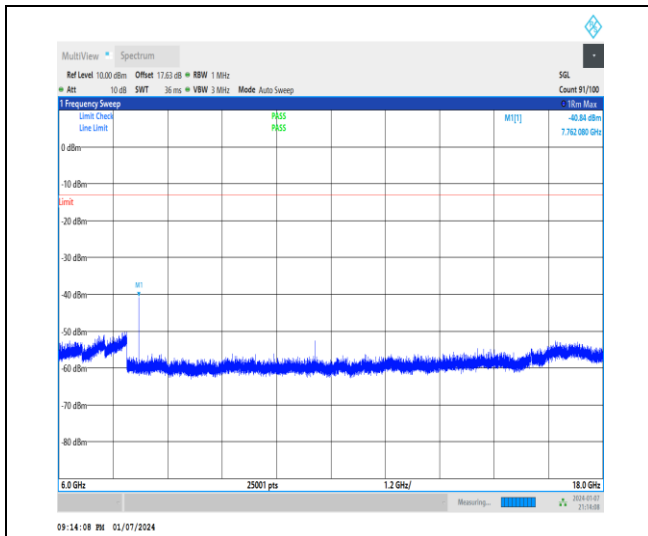


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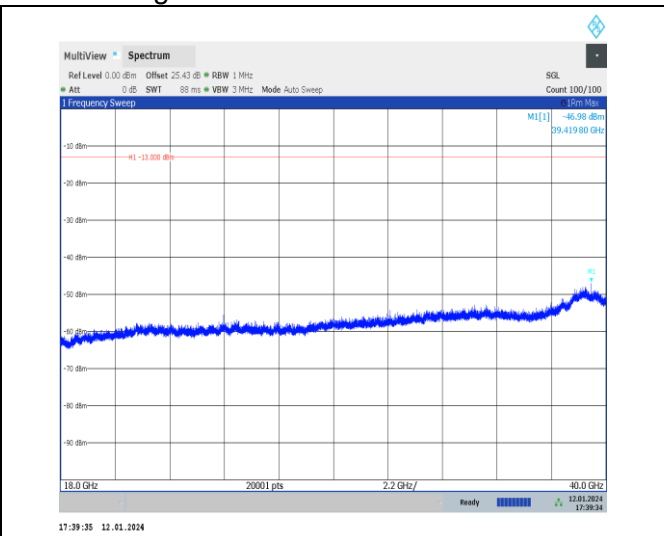
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1-N77-3700-3980-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-6000-18000-Ant2-7763.04--40.84--1  
3-PASS



1-N77-3700-3980-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-18000-40000-Ant2-18000.00--46.98--1  
3-PASS



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## Field Strength of Spurious Radiation

Test Band = SA Band77\_ TM1

Test Channel = Mid 3700-3980

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8040.425	38.33	-41.81	36.78	-61.96	-13.00	48.96	Horizontal
2	9083.475	36.84	-40.49	36.46	-62.45	-13.00	49.45	Horizontal
3	9642.95	35.79	-39.32	37.52	-61.27	-13.00	48.27	Horizontal
4	11178.775	32.64	-36.84	38.72	-60.75	-13.00	47.75	Horizontal
5	12206.3	31.38	-37.08	38.86	-62.10	-13.00	49.10	Horizontal
6	13700.15	31.21	-35.99	40.36	-59.68	-13.00	46.68	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7683.35	39.74	-42.92	36.67	-61.76	-13.00	48.76	Vertical
2	8640.725	37.93	-41.07	36.48	-61.92	-13.00	48.92	Vertical
3	8935.125	37.60	-40.90	36.33	-62.22	-13.00	49.22	Vertical
4	10060.4	34.59	-38.97	38.23	-61.41	-13.00	48.41	Vertical
5	10824	33.40	-38.31	38.61	-61.56	-13.00	48.56	Vertical
6	12848	31.07	-36.74	39.05	-61.88	-13.00	48.88	Vertical



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Test Band = NSA 2A\_N77A\_TM1  
 Test Channel = Mid 3700-3980

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7645.4	39.63	-42.84	36.66	-61.81	-13.00	48.81	Horizontal
2	8434.3	38.22	-41.52	36.58	-61.97	-13.00	48.97	Horizontal
3	9851.1	34.84	-39.13	37.92	-61.63	-13.00	48.63	Horizontal
4	11216.15	32.14	-36.70	38.72	-61.10	-13.00	48.10	Horizontal
5	12837.65	30.82	-36.71	39.05	-62.10	-13.00	49.10	Horizontal
6	14513.775	29.06	-34.38	41.11	-59.48	-13.00	46.48	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7907.025	39.73	-42.70	36.76	-61.46	-13.00	48.46	Vertical
2	9060.475	37.10	-40.59	36.41	-62.34	-13.00	49.34	Vertical
3	10346.175	34.04	-38.85	38.37	-61.70	-13.00	48.70	Vertical
4	11465.125	32.57	-36.86	38.75	-60.80	-13.00	47.80	Vertical
5	12802	30.41	-36.63	39.04	-62.43	-13.00	49.43	Vertical
6	14508.025	28.95	-34.32	41.10	-59.53	-13.00	46.53	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



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## Frequency Stability for SA

### Test Result

#### Frequency Error VS. Voltage

Voltage										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-11.500000	-0.002995	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	0.200000	0.000052	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-8.800000	-0.002292	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	-7.000000	-0.001823	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	-16.700000	-0.004349	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	-9.500000	-0.002474	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-1.800000	-0.000469	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-11.900000	-0.003099	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	4.100000	0.001068	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-12.600000	-0.003281	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	2.400000	0.000625	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	10.500000	0.002734	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-10.300000	-0.002682	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-2.400000	-0.000625	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	4.600000	0.001198	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	-12.800000	-0.003333	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-20	1.000000	0.000260	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	0.500000	0.000130	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	3.400000	0.000885	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	10	10.800000	0.002813	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	20	-6.300000	-0.001641	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	-5.300000	-0.001380	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	-7.000000	-0.001823	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	-9.900000	-0.002578	PASS

---End of Attachment---



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