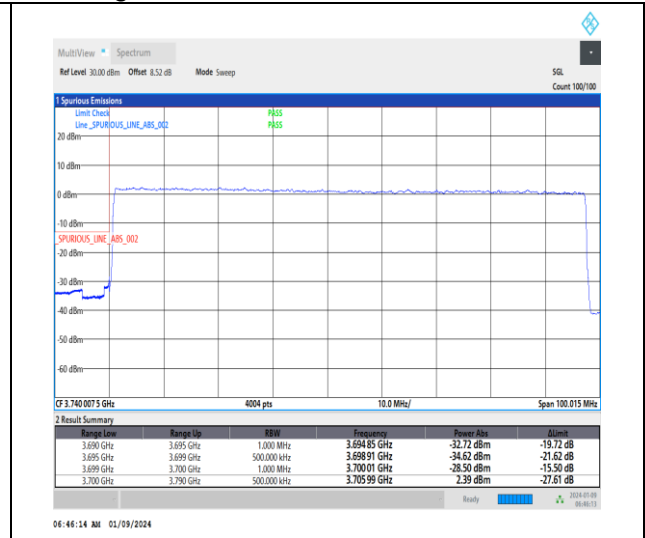
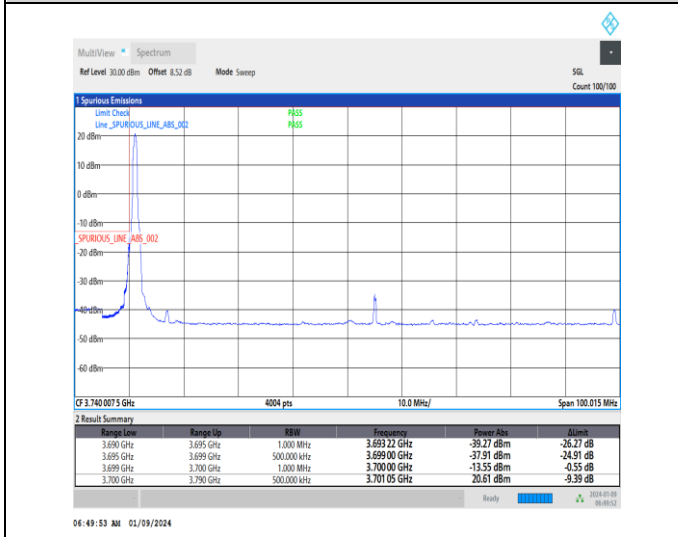


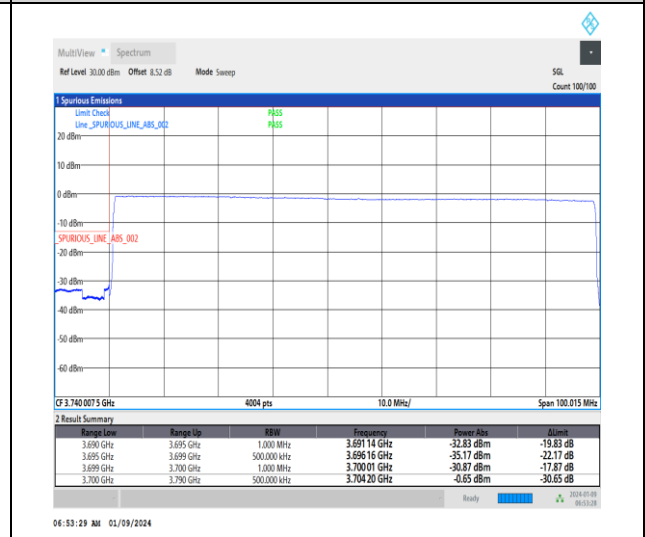
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\_Left-1@0-Ant4-1--PASS-see graph



1-N77-3700-3980-30-90-L-3-DFT-PI2BPSK-Outer  
\_Full-240@0-Ant4-1--PASS-see graph



1-N77-3700-3980-30-90-L-4-CP-QPSK-Edge\_1RB\_Lef  
t-1@0-Ant4-1--PASS-see graph



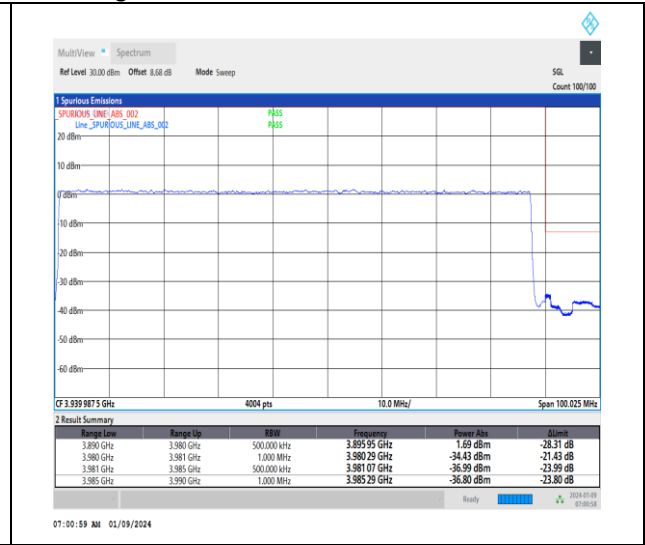
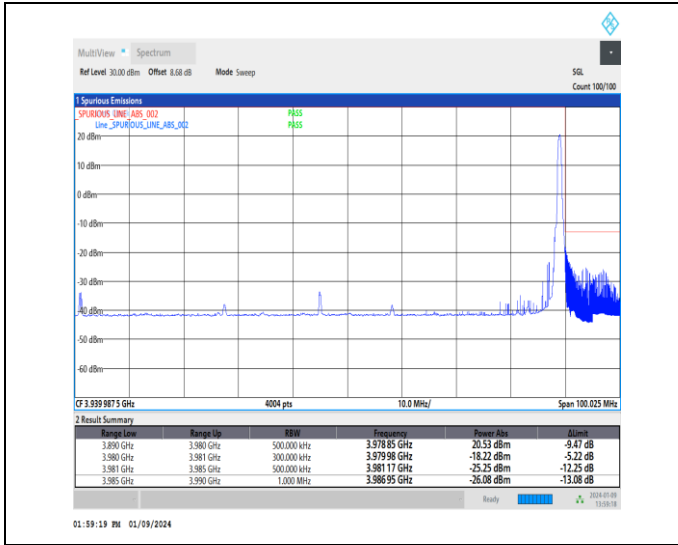
1-N77-3700-3980-30-90-L-6-CP-QPSK-Outer\_Full  
-245@0-Ant4-1--PASS-see graph



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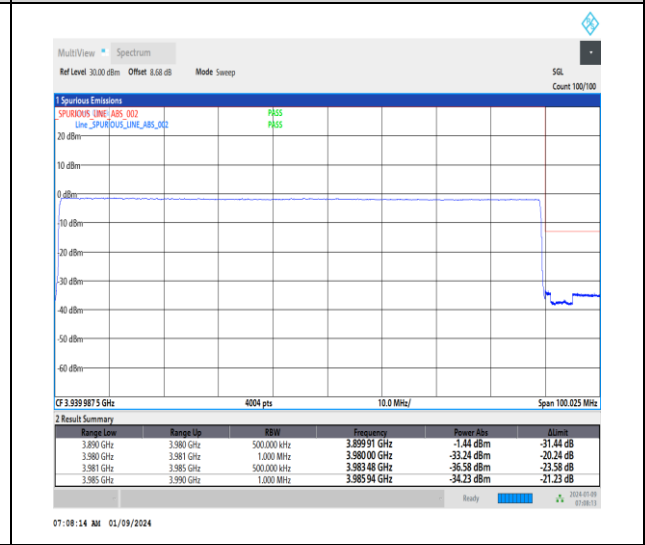
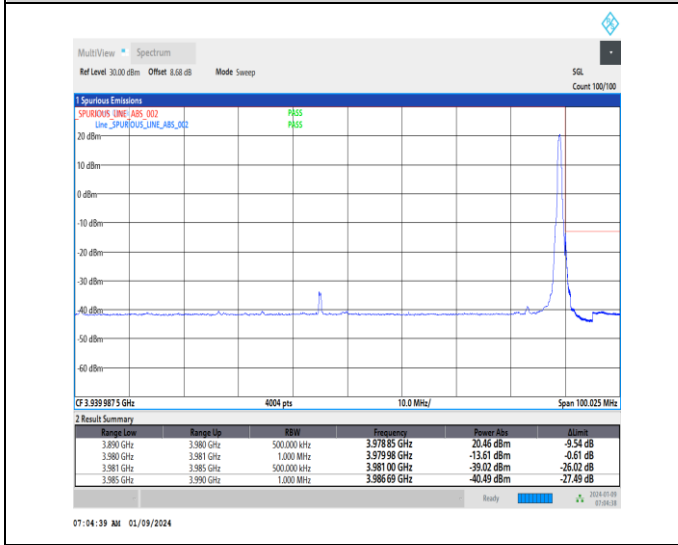
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1-N77-3700-3980-30-90-H-2-DFT-PI2BPSK-Edge\_1R\_B\_Right-1@244-Ant4-1--PASS-see graph

1-N77-3700-3980-30-90-H-3-DFT-PI2BPSK-Outer\_Full-240@0-Ant4-1--PASS-see graph



1-N77-3700-3980-30-90-H-5-CP-QPSK-Edge\_1RB\_Right-1@244-Ant4-1--PASS-see graph

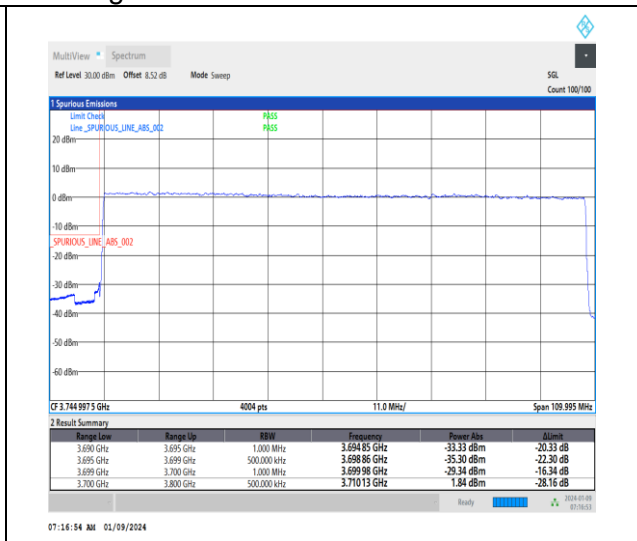
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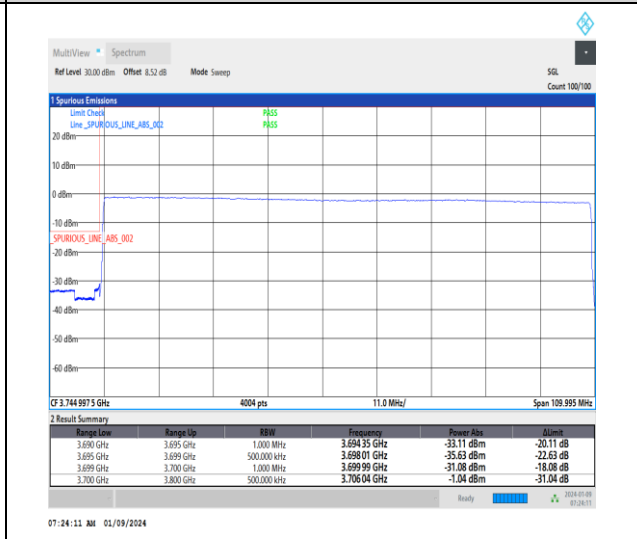
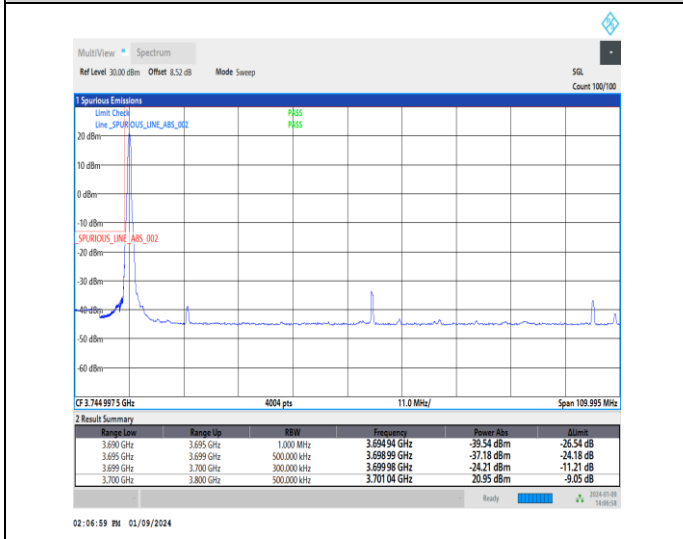
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1-N77-3700-3980-30-100-L-1-DFT-PI2BPSK-Edge\_1R B\_Left-1@0-Ant4-1--PASS-see graph

1-N77-3700-3980-30-100-L-3-DFT-PI2BPSK-Outer\_Full-270@0-Ant4-1--PASS-see graph



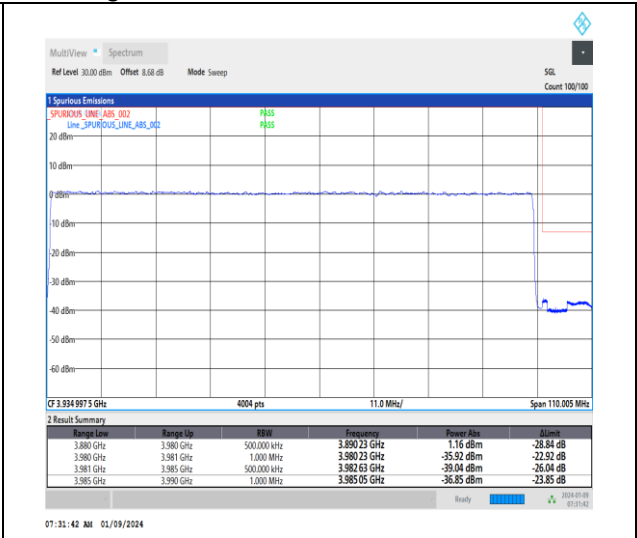
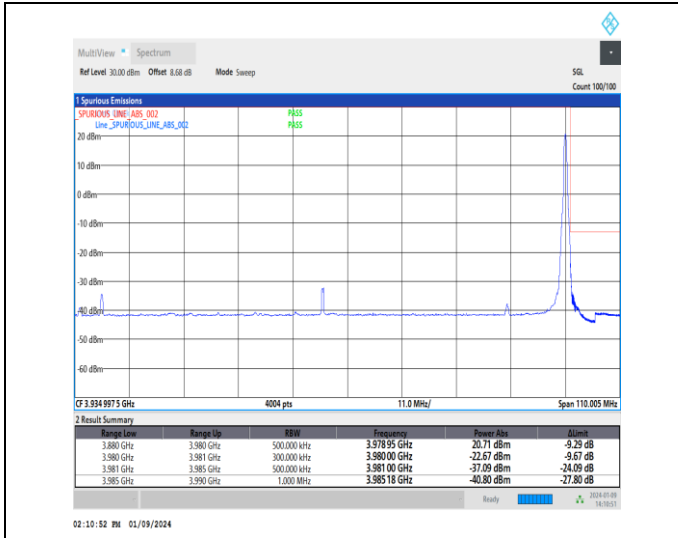
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1-N77-3700-3980-30-100-L-6-CP-QPSK-Outer\_Full-273@0-Ant4-1--PASS-see graph



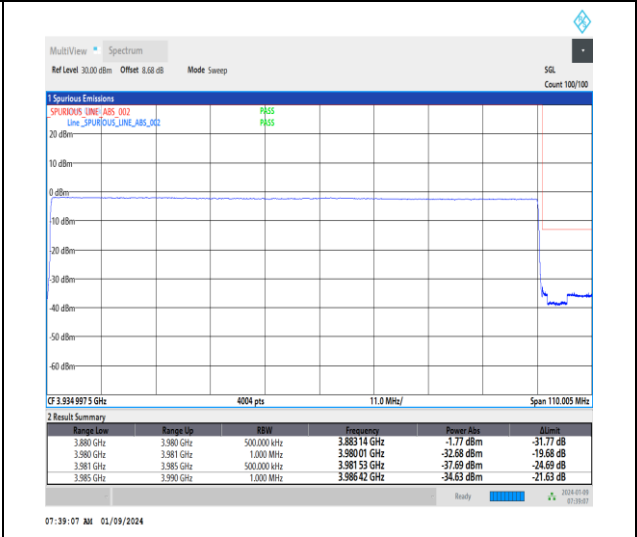
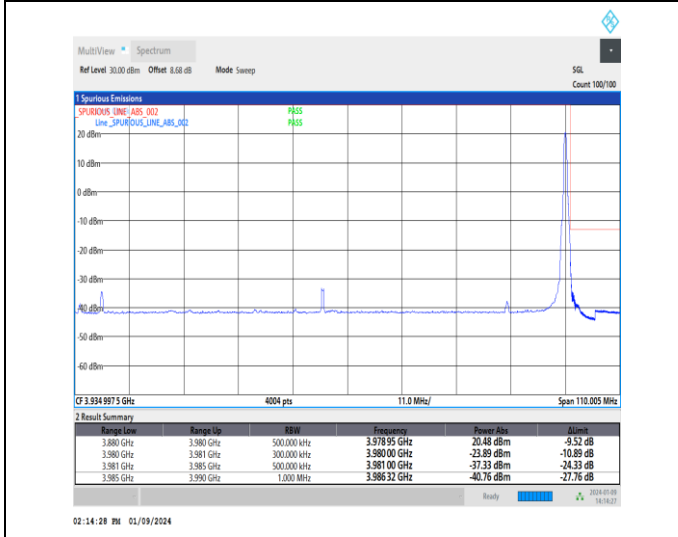
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1-N77-3700-3980-30-100-H-2-DFT-PI2BPSK-Edge\_1R\_B\_Right-1@272-Ant4-1--PASS-see graph

1-N77-3700-3980-30-100-H-3-DFT-PI2BPSK-Outer\_Full-270@0-Ant4-1--PASS-see graph



1-N77-3700-3980-30-100-H-5-CP-QPSK-Edge\_1RB\_Right-1@272-Ant4-1--PASS-see graph

1-N77-3700-3980-30-100-H-6-CP-QPSK-Outer\_Full-273@0-Ant4-1--PASS-see graph



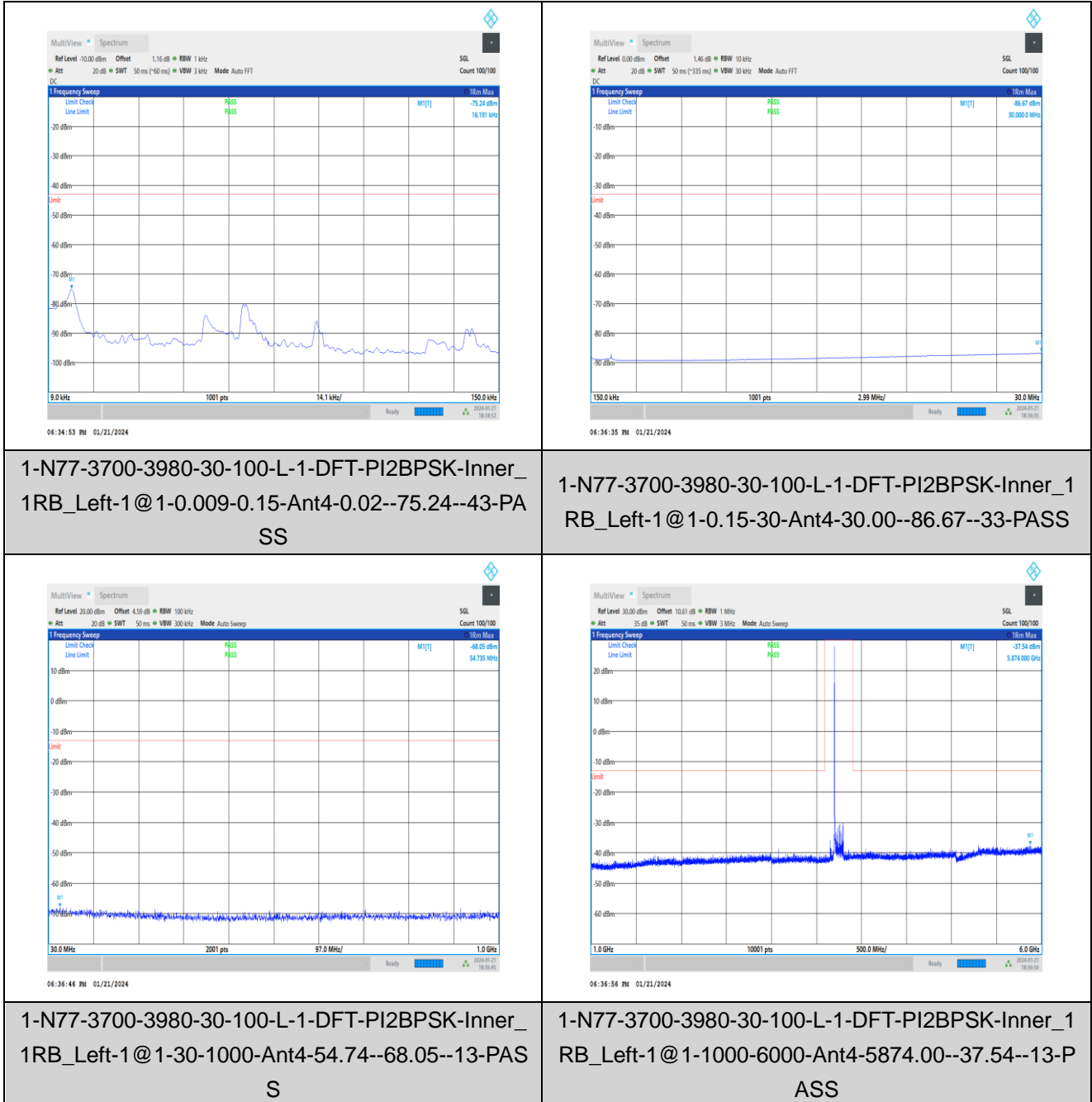
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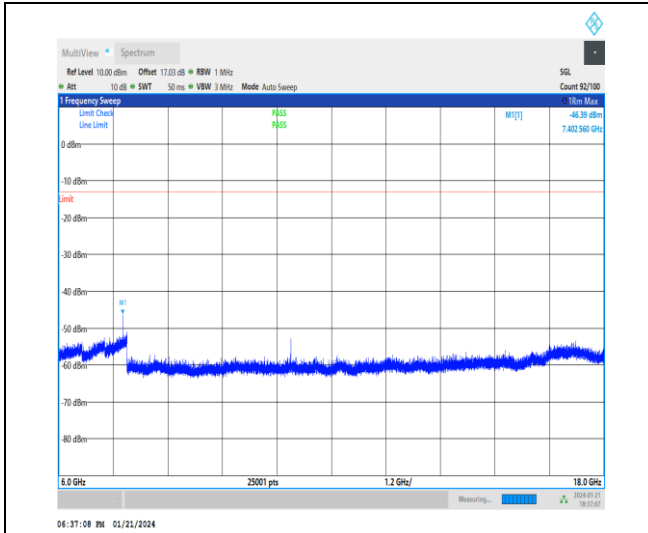
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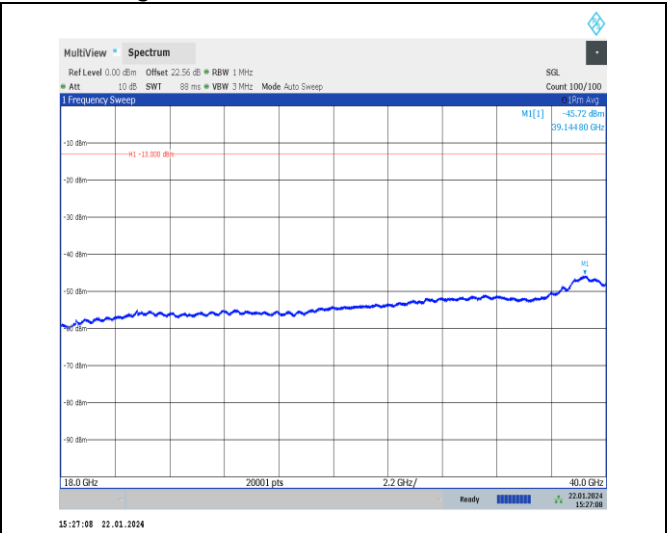
### Test Graphs



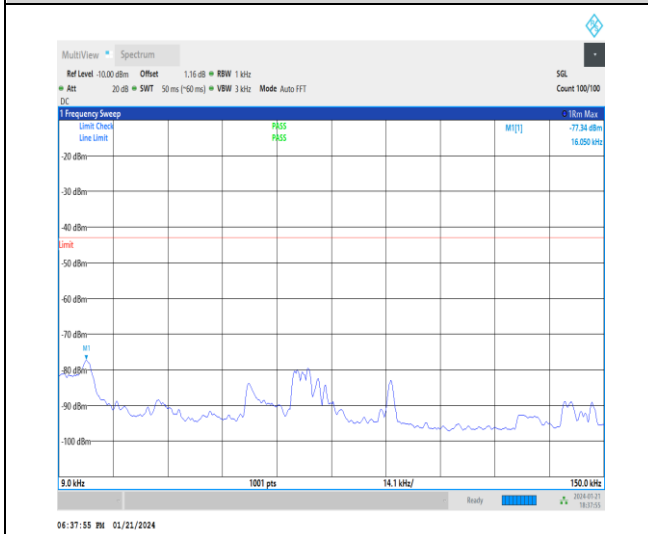
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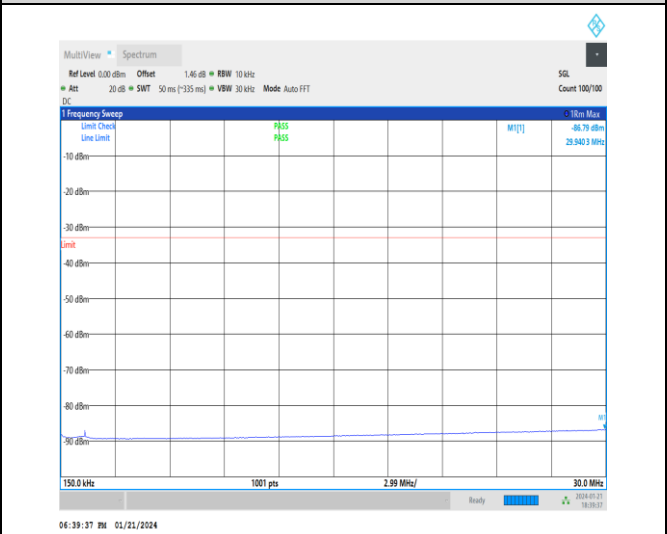
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1-N77-3700-3980-30-100-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-18000-40000-Ant4-18000.00--45.72--1 3-PASS



1-N77-3700-3980-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.009-0.15-Ant4-0.02--77.34--43-PASS



1-N77-3700-3980-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-Ant4-29.94--86.79--33-PASS

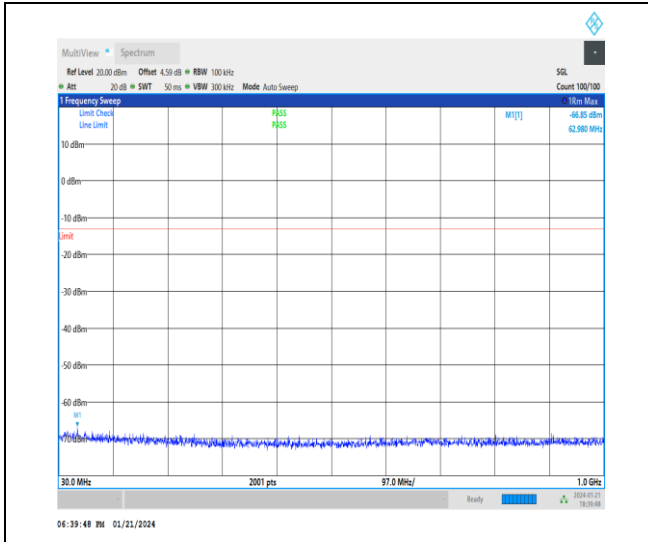


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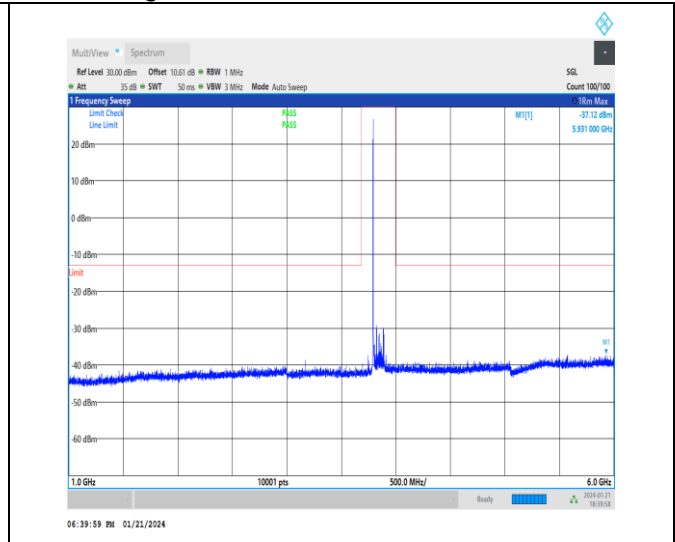
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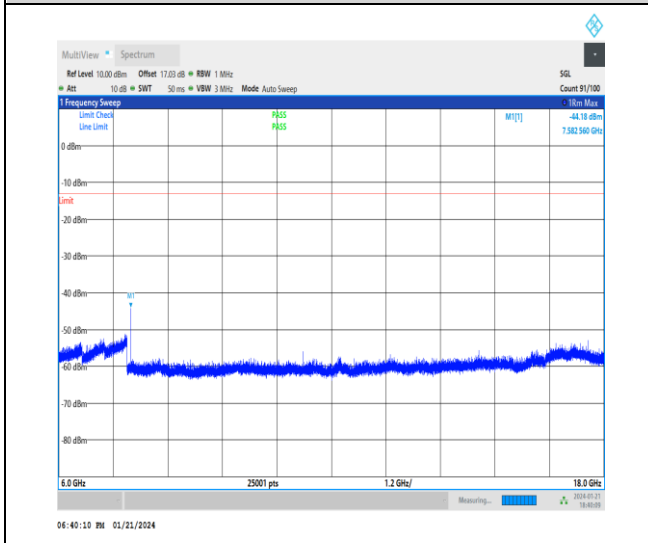
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S



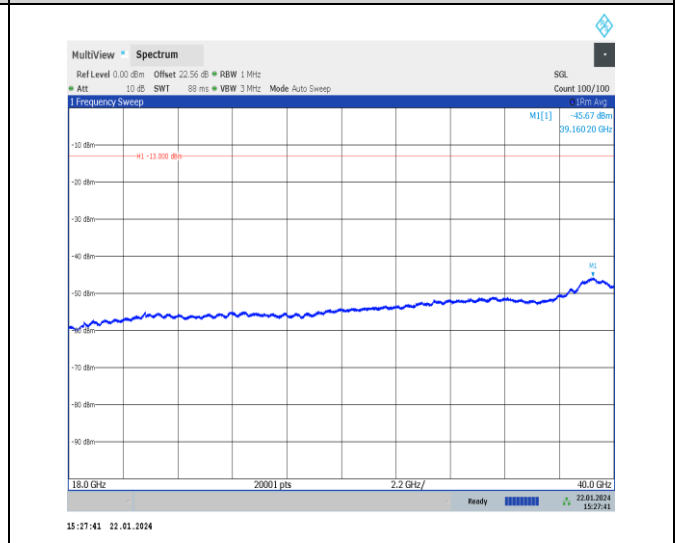
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ASS



1-N77-3700-3980-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-6000-18000-Ant4-7582.56--44.18--1

3-PASS



1-N77-3700-3980-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-18000-40000-Ant4-18000.00--45.67--1

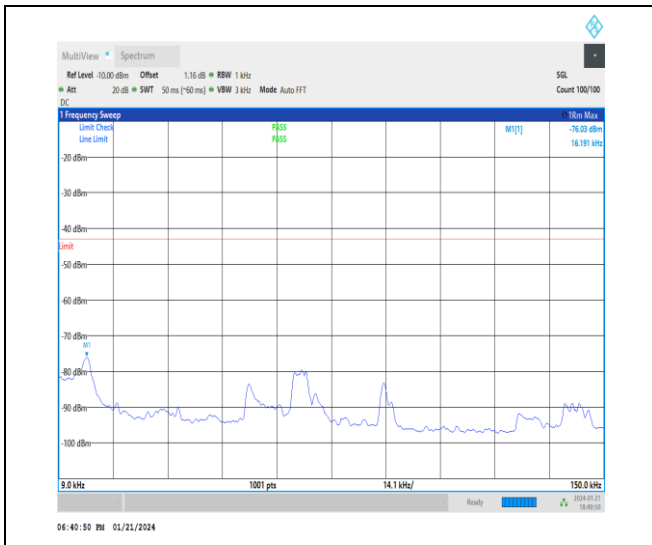
3-PASS



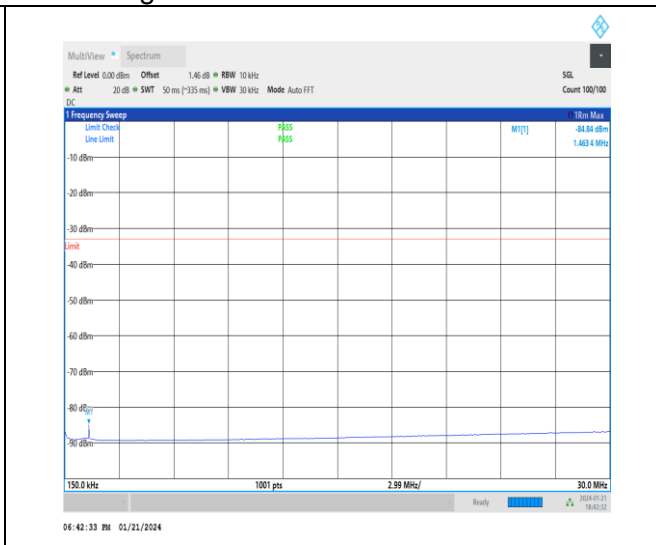
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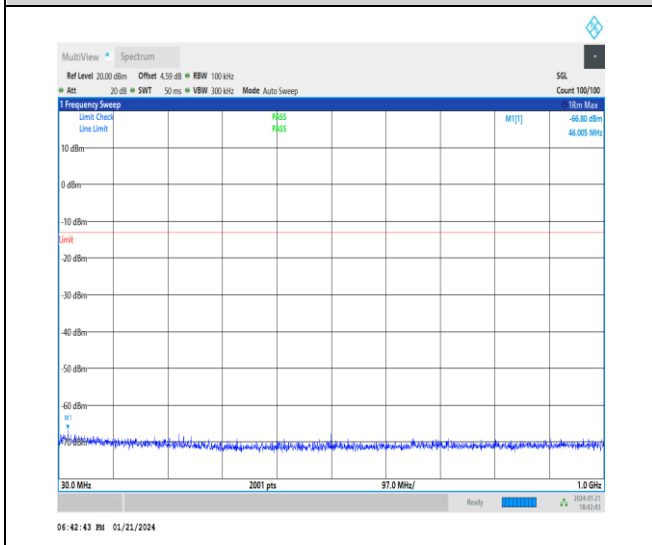
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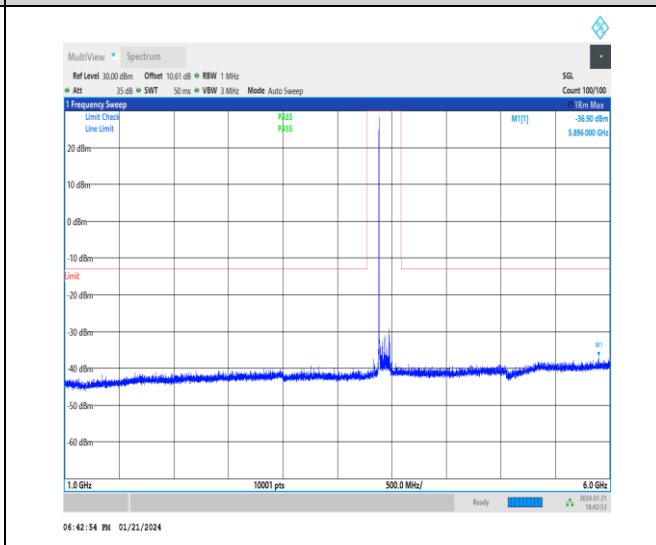
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1-N77-3700-3980-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-Ant4-1.46--84.84--33-PASS



1-N77-3700-3980-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-30-1000-Ant4-46.01--66.80--13-PASS



1-N77-3700-3980-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-1000-6000-Ant4-5896.00--36.90--13-PASS

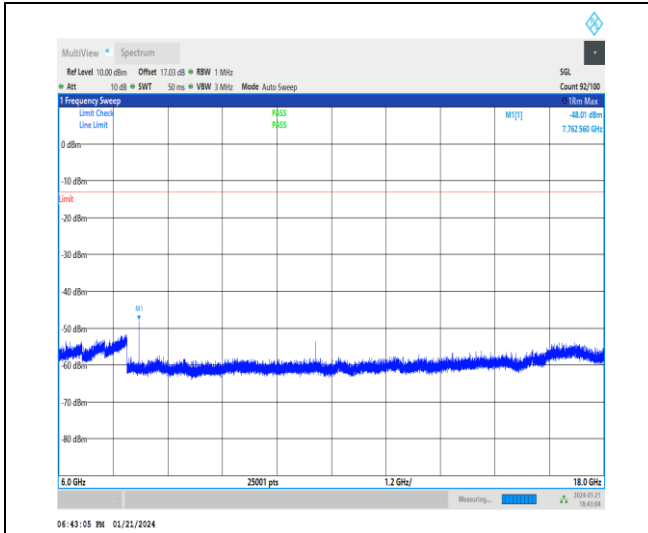


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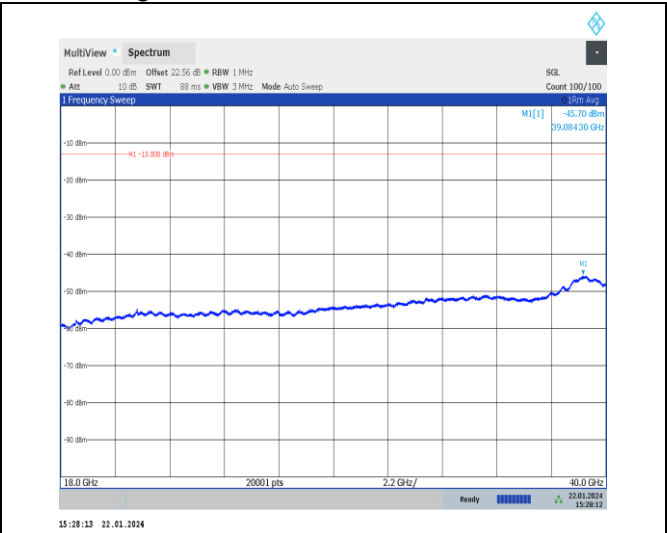
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1-N77-3700-3980-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-6000-18000-Ant4-7762.56--48.01--1  
3-PASS



1-N77-3700-3980-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-18000-40000-Ant4-18000.00--45.70--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	7688.525	39.76	-42.93	36.68	-61.75	-13.00	48.75	Horizontal
2	8944.325	36.30	-40.89	36.33	-63.52	-13.00	50.52	Horizontal
3	10288.1	32.67	-39.01	38.34	-63.25	-13.00	50.25	Horizontal
4	12826.15	28.11	-36.69	39.05	-64.79	-13.00	51.79	Horizontal
5	13759.375	27.64	-36.14	40.47	-63.30	-13.00	50.30	Horizontal
6	14679.95	25.54	-34.88	41.17	-63.43	-13.00	50.43	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8078.375	37.51	-41.51	36.76	-62.50	-13.00	49.50	Vertical
2	9609.025	34.67	-39.23	37.46	-62.36	-13.00	49.36	Vertical
3	10667.025	31.13	-37.66	38.53	-63.26	-13.00	50.26	Vertical
4	12061.975	27.81	-37.19	38.82	-65.82	-13.00	52.82	Vertical
5	13853.675	27.85	-35.89	40.64	-62.66	-13.00	49.66	Vertical
6	16117.45	26.69	-34.19	39.56	-63.20	-13.00	50.20	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	8022.6	38.12	-41.95	36.79	-62.30	-13.00	49.30	Horizontal
2	9016.2	36.21	-40.80	36.33	-63.51	-13.00	50.51	Horizontal
3	10097.775	32.71	-38.72	38.25	-63.02	-13.00	50.02	Horizontal
4	13044.075	27.11	-37.00	39.18	-65.97	-13.00	52.97	Horizontal
5	14625.325	26.39	-35.20	41.15	-62.92	-13.00	49.92	Horizontal
6	15785.1	25.90	-33.09	39.65	-62.80	-13.00	49.80	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8410.15	38.49	-41.41	36.59	-61.59	-13.00	48.59	Vertical
2	9679.175	33.56	-39.42	37.59	-63.53	-13.00	50.53	Vertical
3	11223.05	30.04	-36.75	38.72	-63.24	-13.00	50.24	Vertical
4	13167.125	26.82	-36.58	39.40	-65.62	-13.00	52.62	Vertical
5	15154.9	27.06	-34.08	40.97	-61.31	-13.00	48.31	Vertical
6	16859.775	27.52	-34.29	41.87	-60.16	-13.00	47.16	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	-6.800000	-0.001771	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-5.200000	-0.001354	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-5.200000	-0.001354	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	-2.700000	-0.000703	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	-1.700000	-0.000443	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	-3.100000	-0.000807	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	-3.900000	-0.001016	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-5.700000	-0.001484	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-4.200000	-0.001094	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-5.300000	-0.001380	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-4.200000	-0.001094	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-7.100000	-0.001849	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-6.400000	-0.001667	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-7.800000	-0.002031	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-5.900000	-0.001536	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	-4.500000	-0.001172	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	-10	-4.900000	-0.001276	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	-4.400000	-0.001146	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	10	-4.300000	-0.001120	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	20	-3.200000	-0.000833	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	-3.600000	-0.000938	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	-2.200000	-0.000573	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	-0.200000	-0.000052	PASS

---End of Attachment---



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