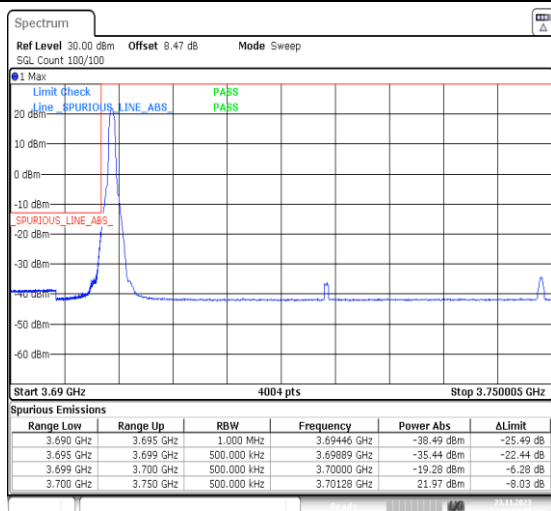


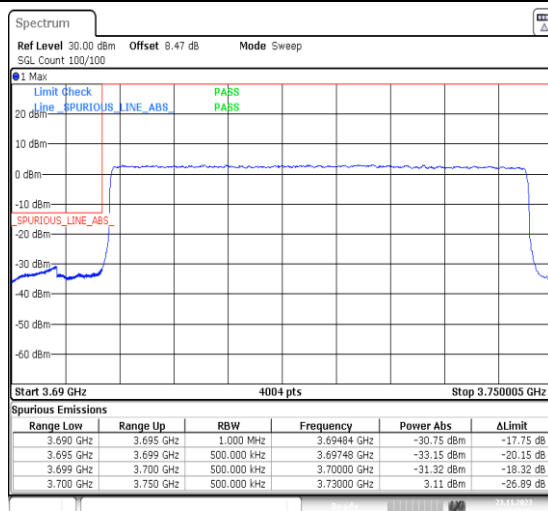
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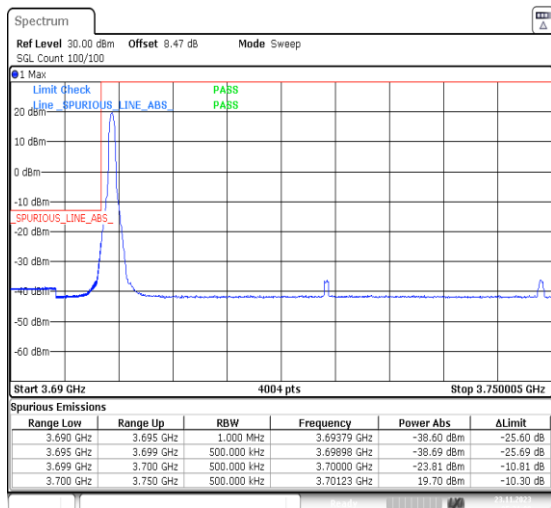
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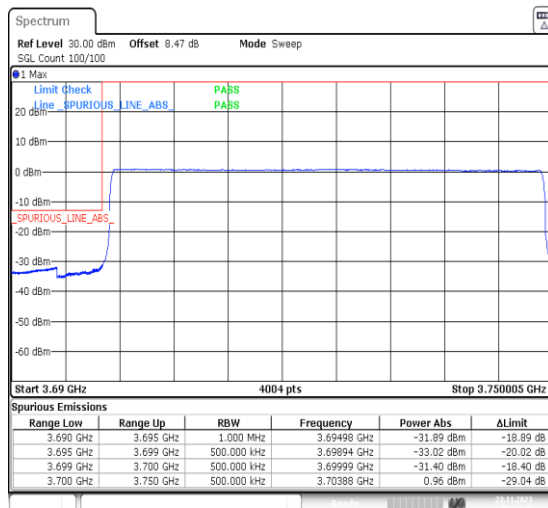
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1-N77-3700-3980-PC3-30-50-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant13-1--PASS-see graph



1-N77-3700-3980-PC3-30-50-L-6-CP-QPSK-Outer_Full-133@0-Ant13-1--PASS-see graph



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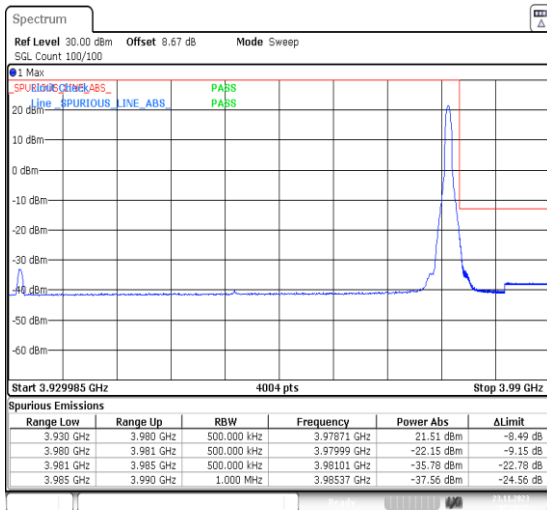
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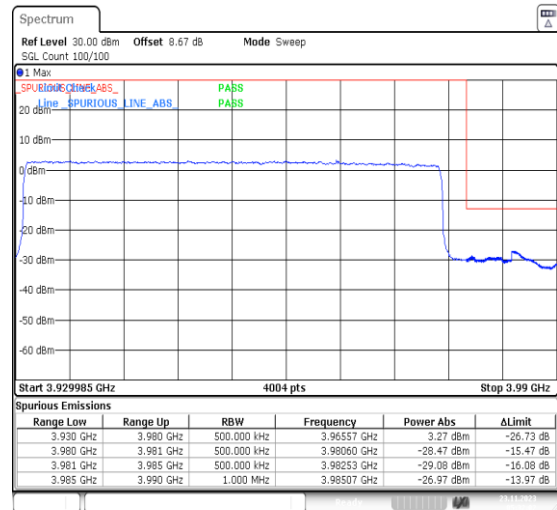
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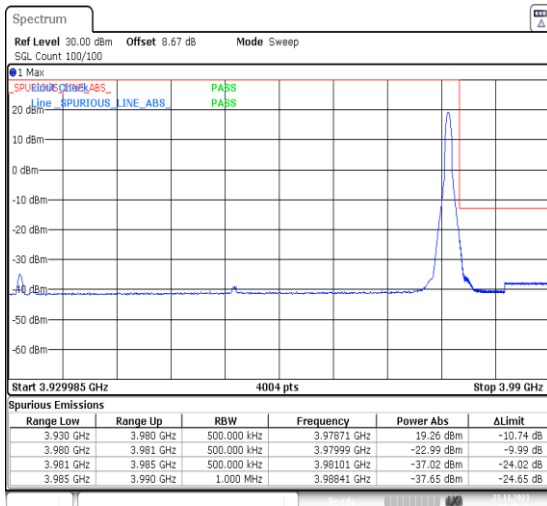
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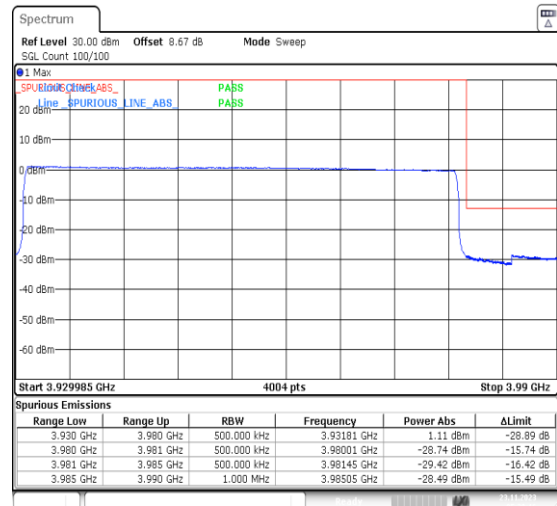
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1-N77-3700-3980-PC3-30-50-H-6-CP-QPSK-Outer_Full-133@0-Ant13-1--PASS-see graph



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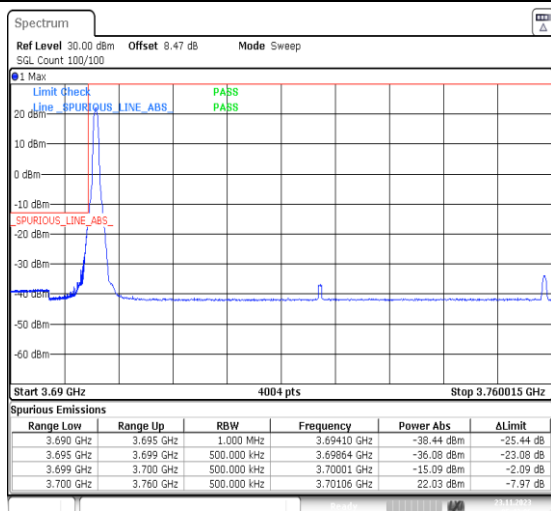
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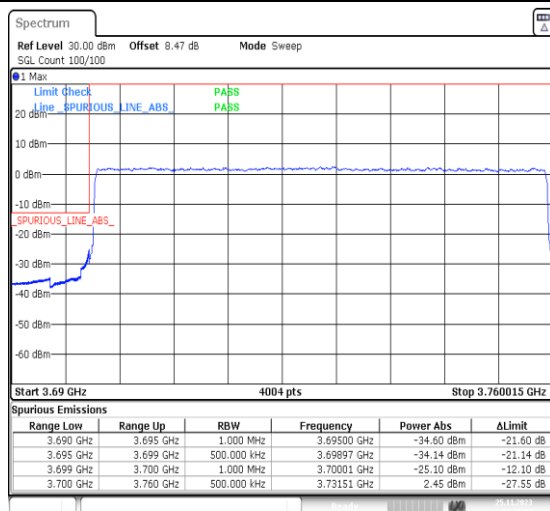
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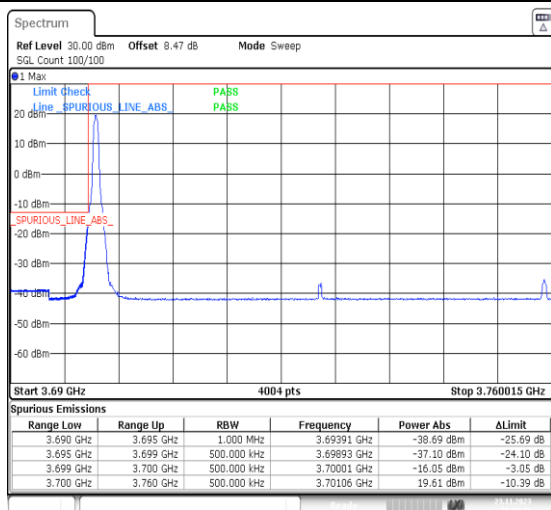
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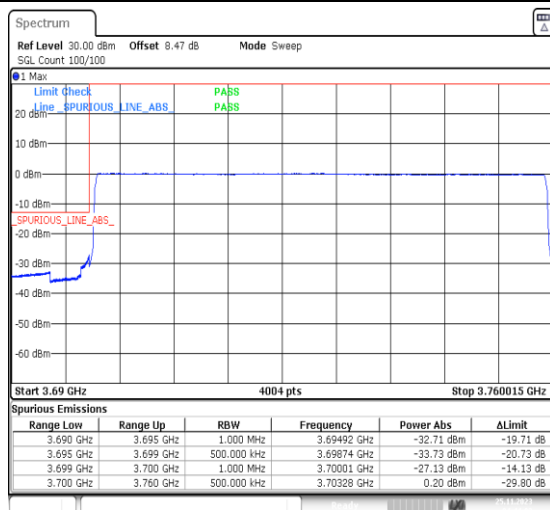
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1-N77-3700-3980-PC3-30-60-L-3-DFT-PI2BPSK-Outer_Full-162@0-Ant13-1--PASS-see graph



1-N77-3700-3980-PC3-30-60-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant13-1--PASS-see graph



1-N77-3700-3980-PC3-30-60-L-6-CP-QPSK-Outer_Full-162@0-Ant13-1--PASS-see graph



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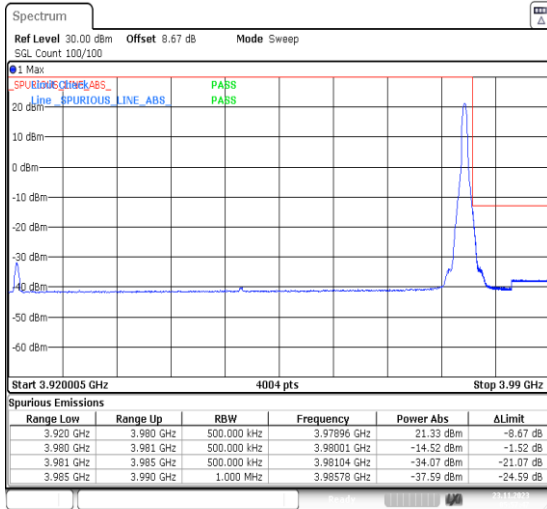
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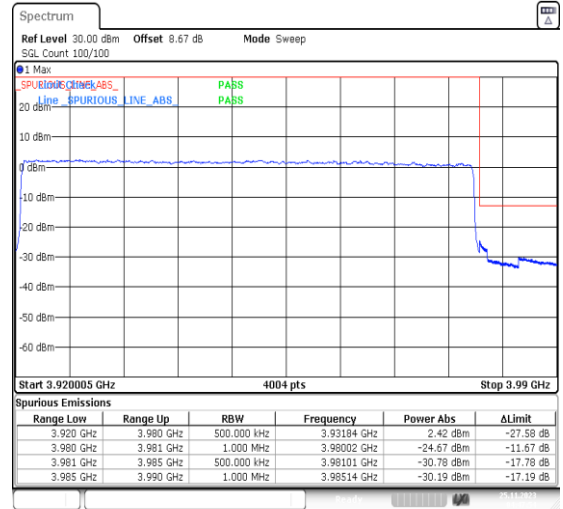
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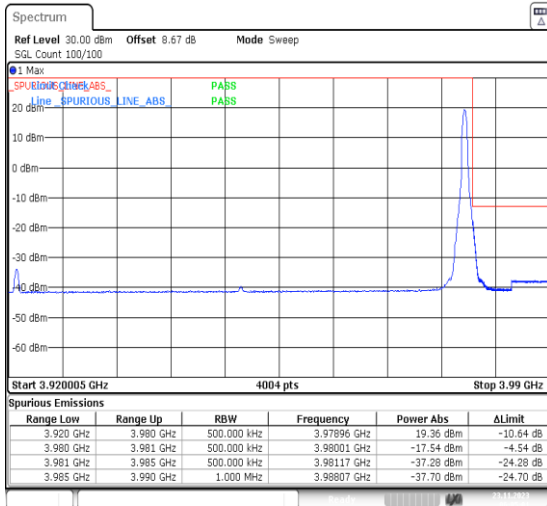
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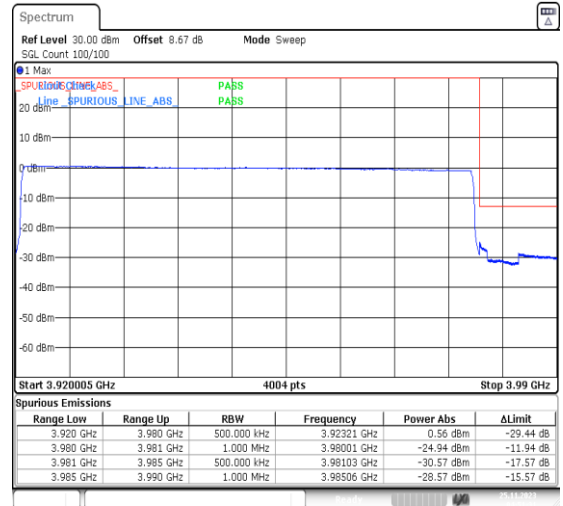
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1-N77-3700-3980-PC3-30-60-H-5-CP-QPSK-Edge_1RB_Right-1@161-Ant13-1--PASS-see graph



1-N77-3700-3980-PC3-30-60-H-6-CP-QPSK-Outer_Full-162@0-Ant13-1--PASS-see graph



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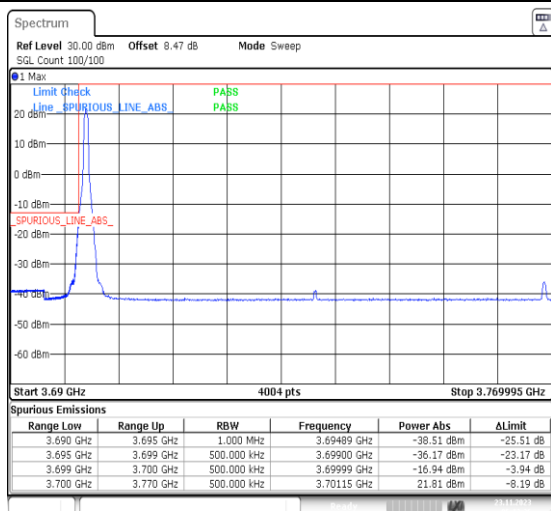
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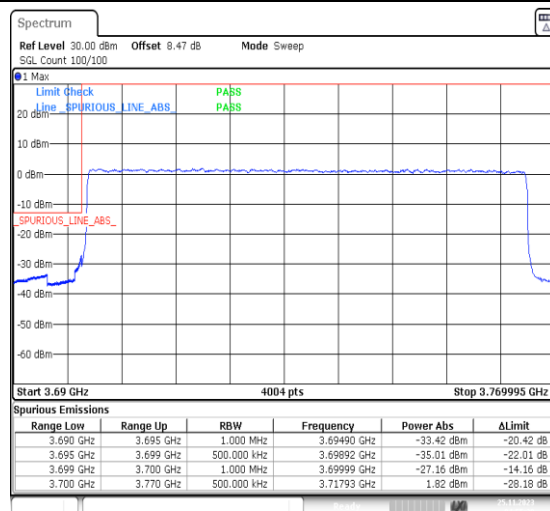
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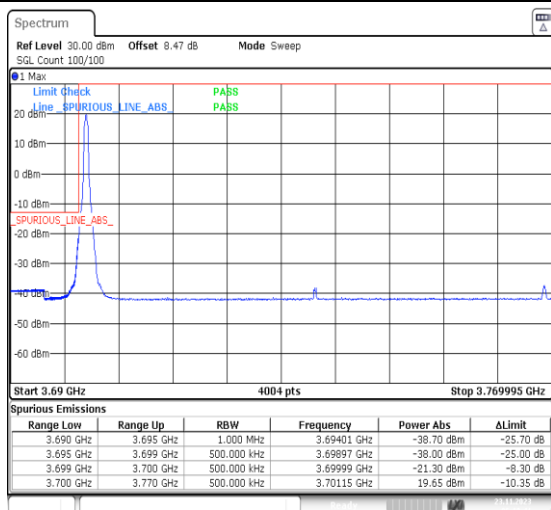
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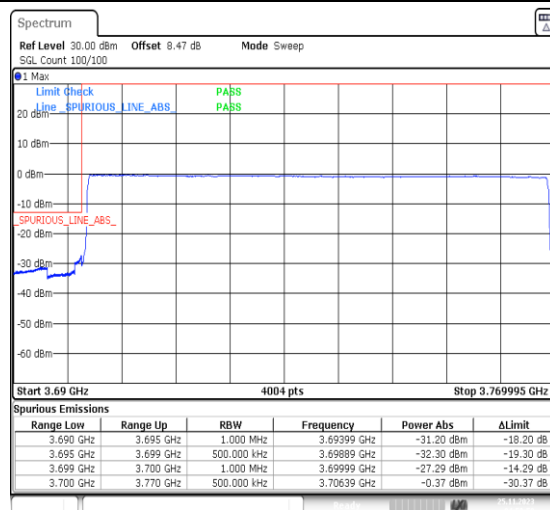
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1-N77-3700-3980-PC3-30-70-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant13-1--PASS-see graph



1-N77-3700-3980-PC3-30-70-L-6-CP-QPSK-Outer_Full-189@0-Ant13-1--PASS-see graph



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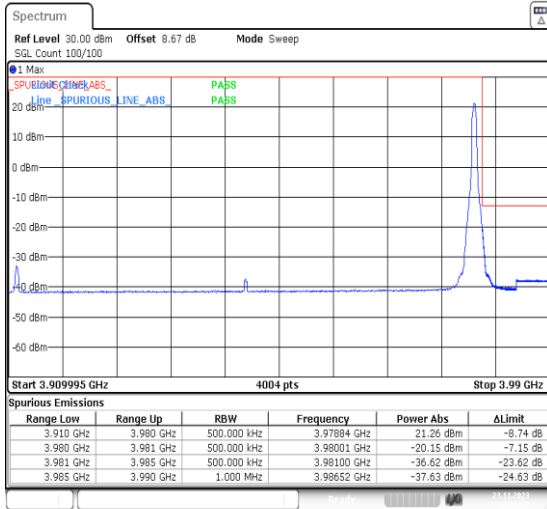
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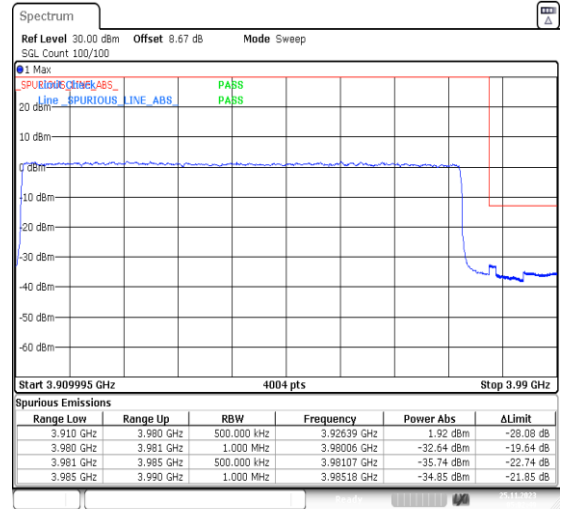
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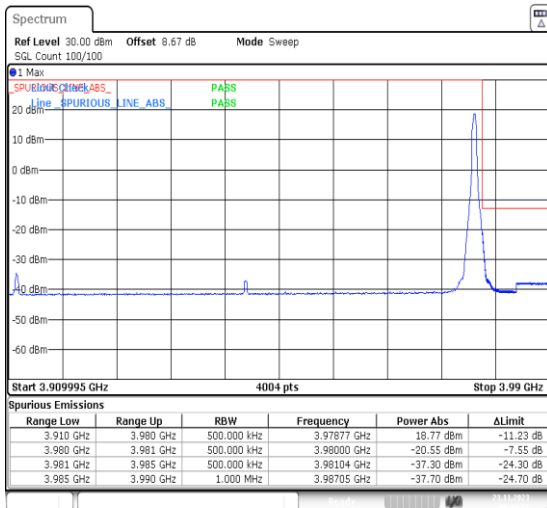
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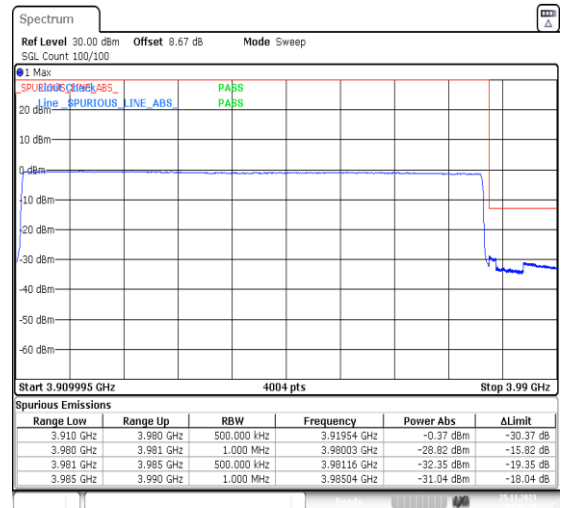
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1-N77-3700-3980-PC3-30-70-H-5-CP-QPSK-Edge_1RB_Right-1@188-Ant13-1--PASS-see graph



1-N77-3700-3980-PC3-30-70-H-6-CP-QPSK-Outer_Full-189@0-Ant13-1--PASS-see graph



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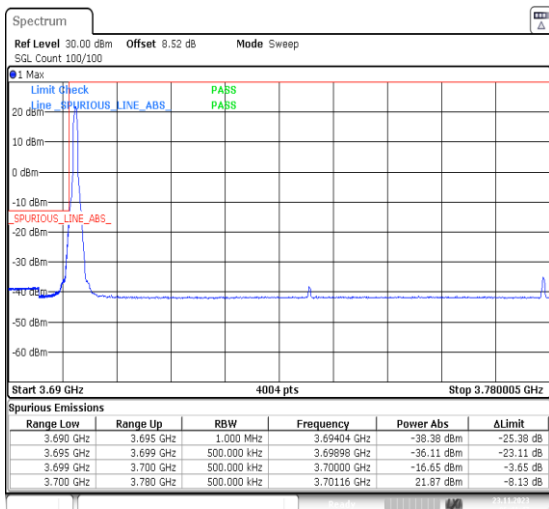
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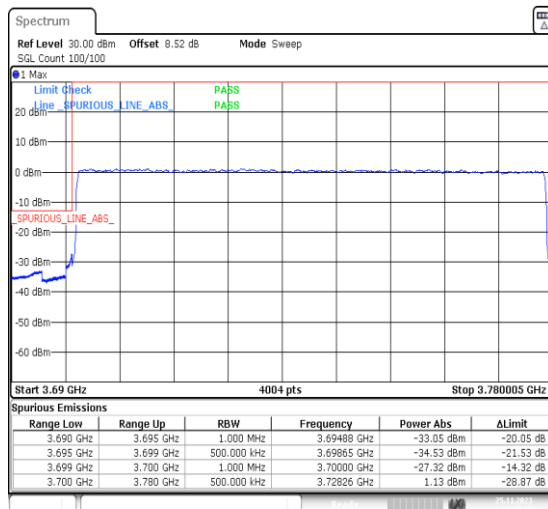
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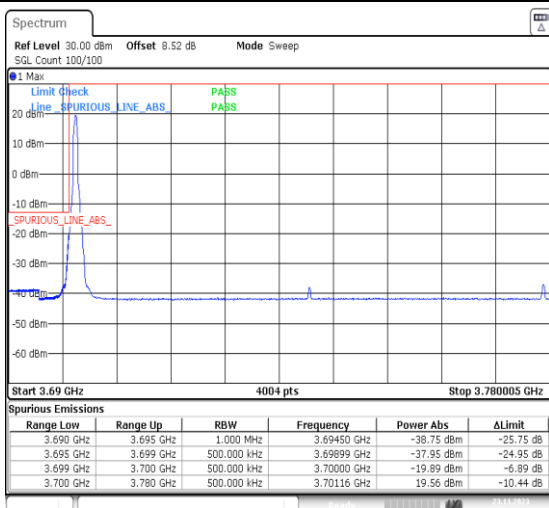
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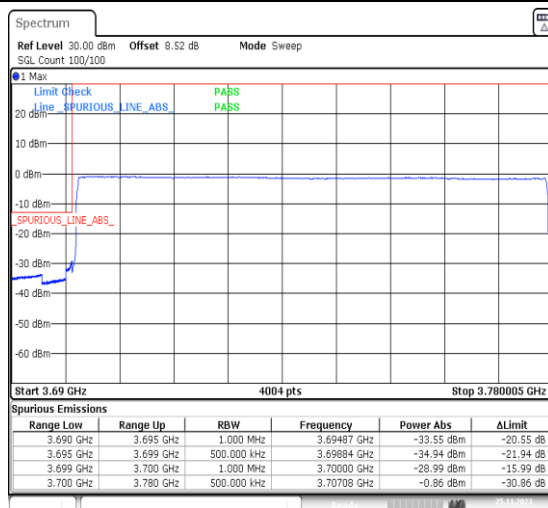
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1-N77-3700-3980-PC3-30-80-L-6-CP-QPSK-Outer_Full-217@0-Ant13-1--PASS-see graph



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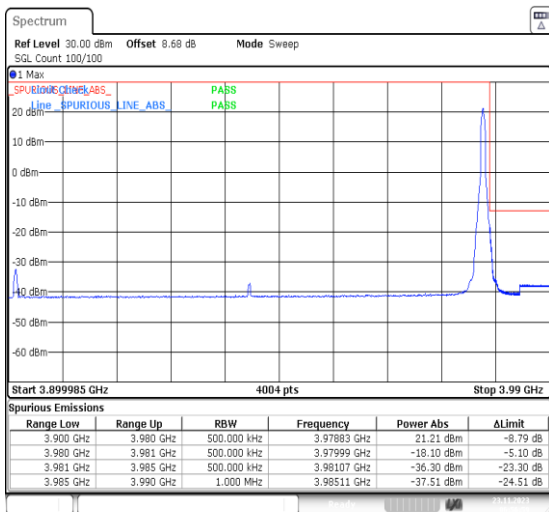
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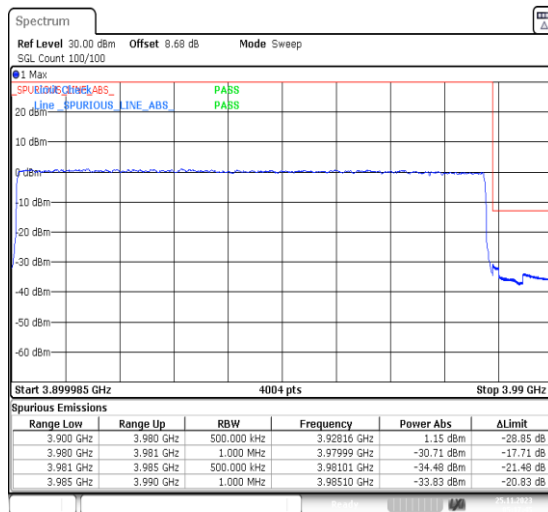
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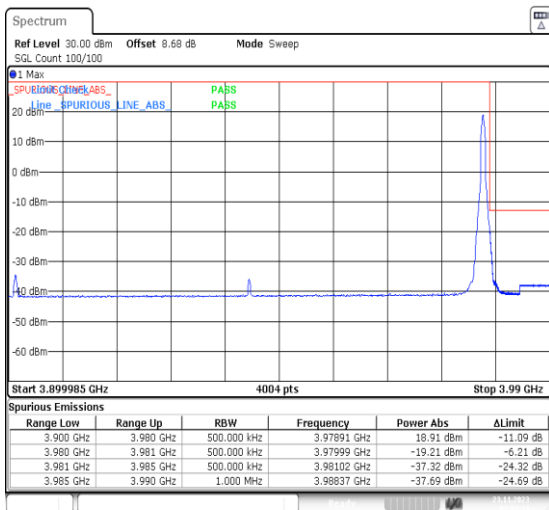
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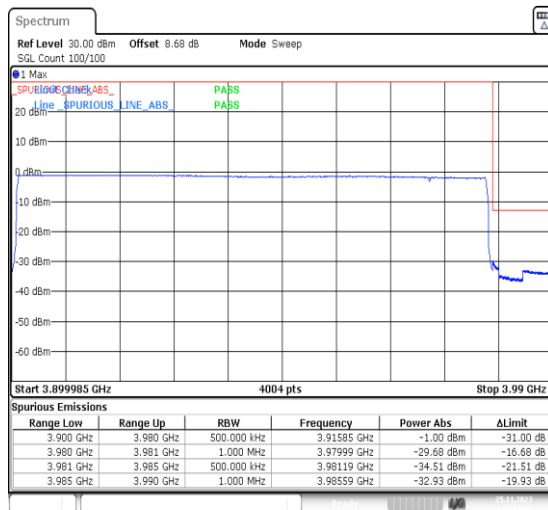
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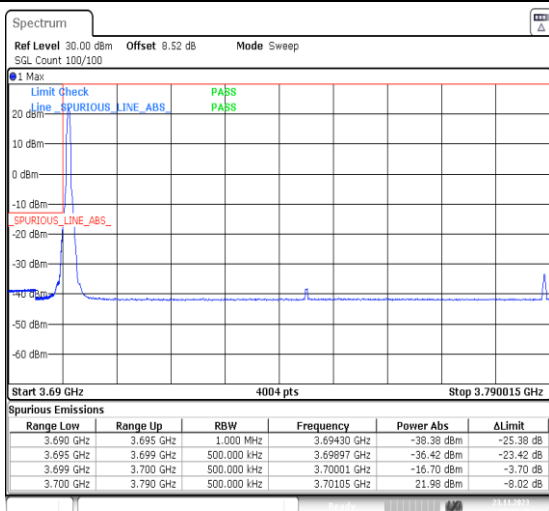
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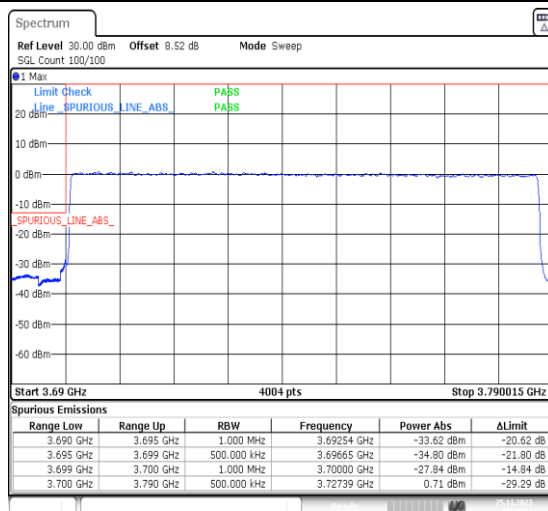
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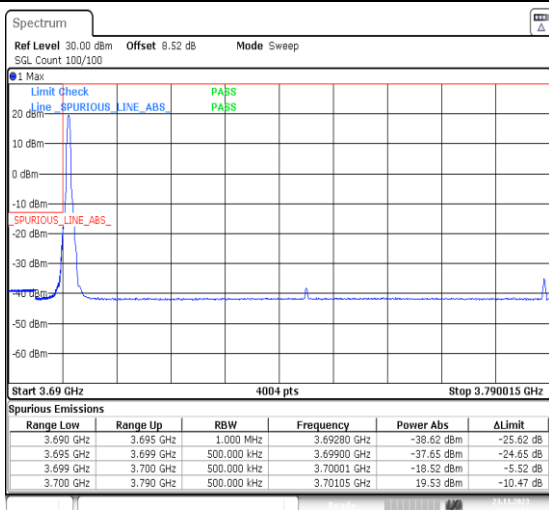
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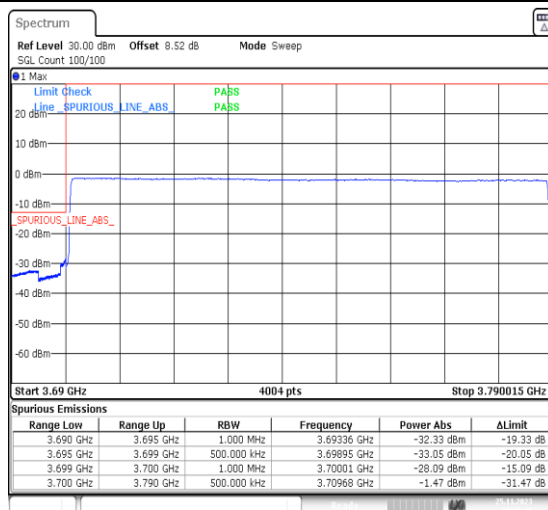
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1-N77-3700-3980-PC3-30-90-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant13-1--PASS-see graph



1-N77-3700-3980-PC3-30-90-L-6-CP-QPSK-Outer_Full-245@0-Ant13-1--PASS-see graph



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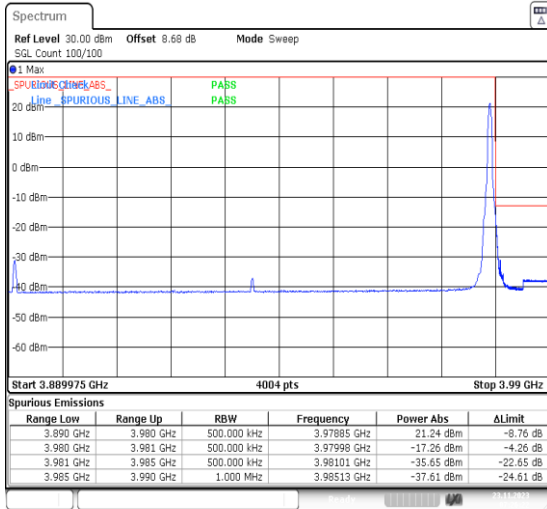
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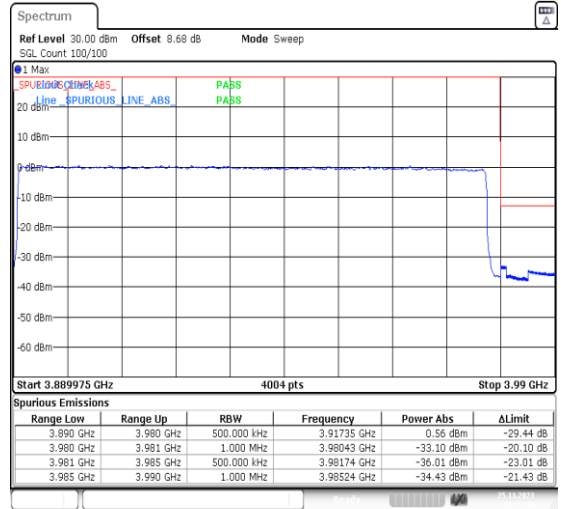
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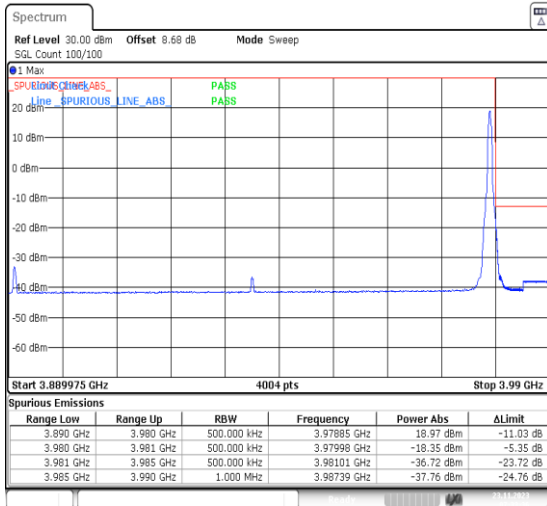
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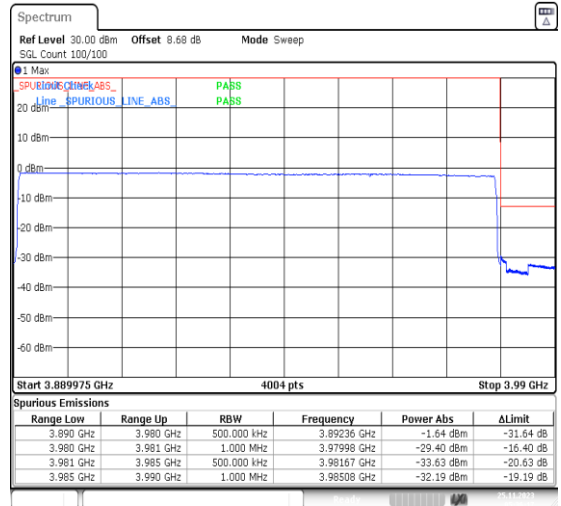
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1-N77-3700-3980-PC3-30-90-H-6-CP-QPSK-Outer_Full-245@0-Ant13-1--PASS-see graph



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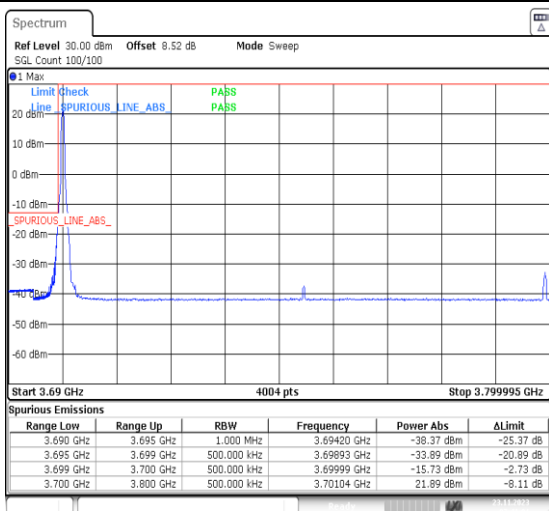
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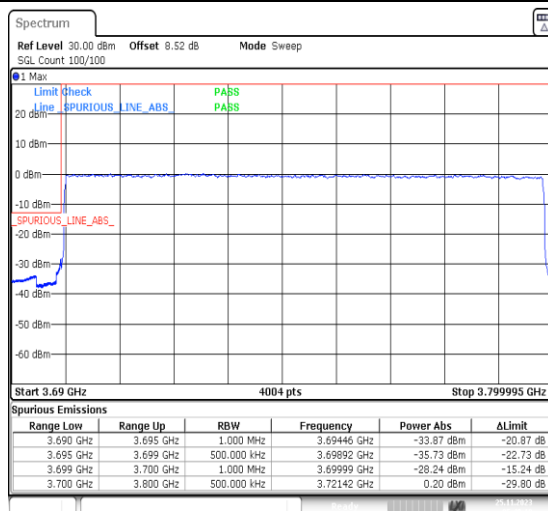
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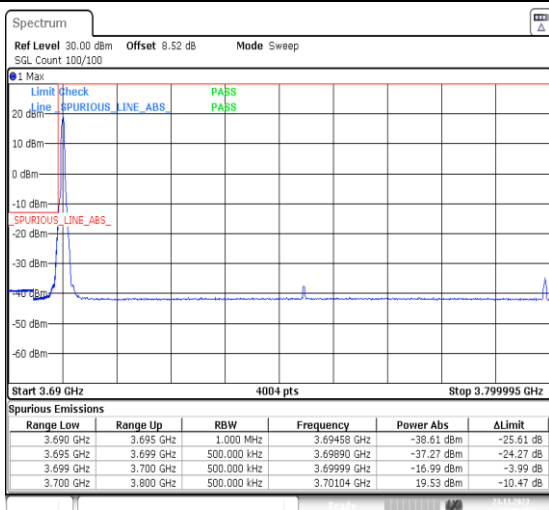
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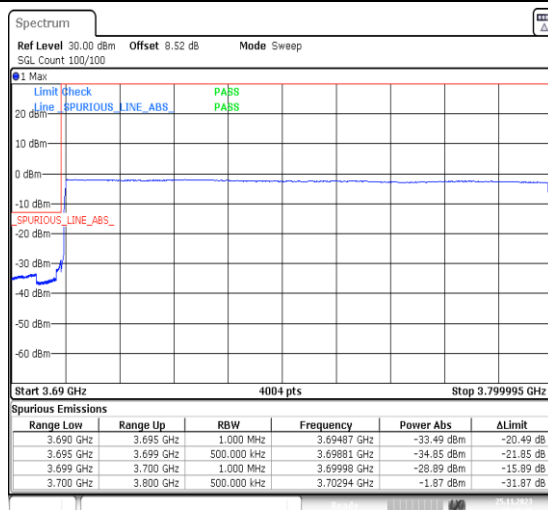
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1-N77-3700-3980-PC3-30-100-L-6-CP-QPSK-Outer_Full-273@0-Ant13-1--PASS-see graph



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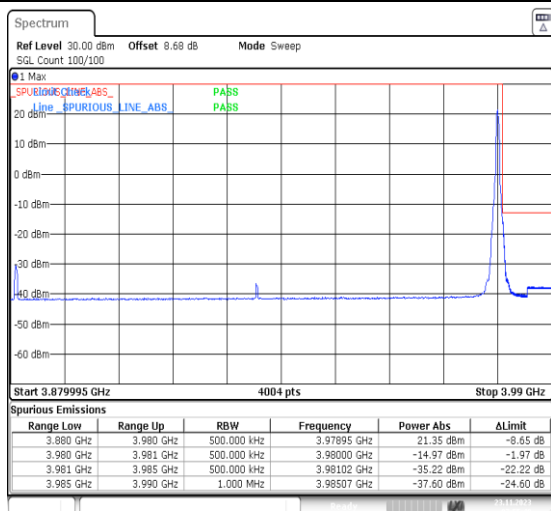
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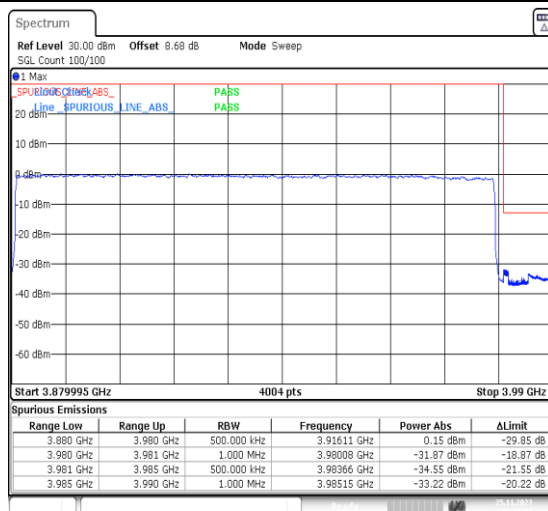
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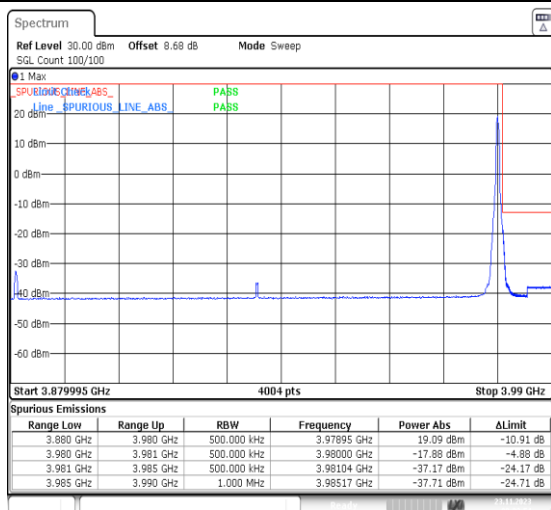
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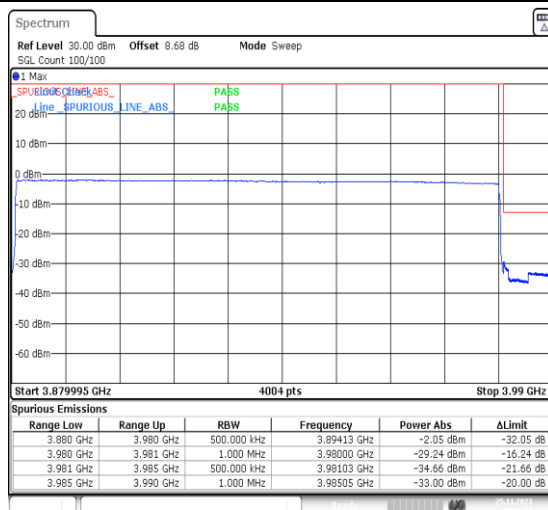
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1-N77-3700-3980-PC3-30-100-H-5-CP-QPSK-Edge_1RB_Right-1@272-Ant13-1--PASS-see graph



1-N77-3700-3980-PC3-30-100-H-6-CP-QPSK-Outer_Full-273@0-Ant13-1--PASS-see graph



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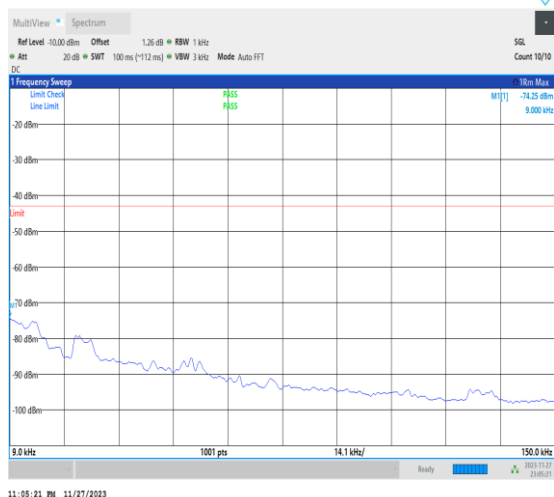
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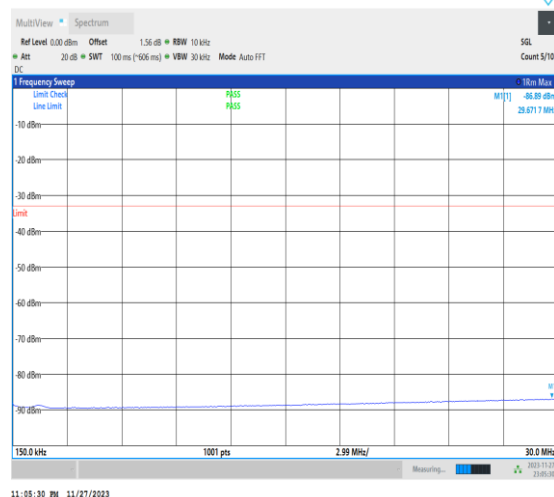
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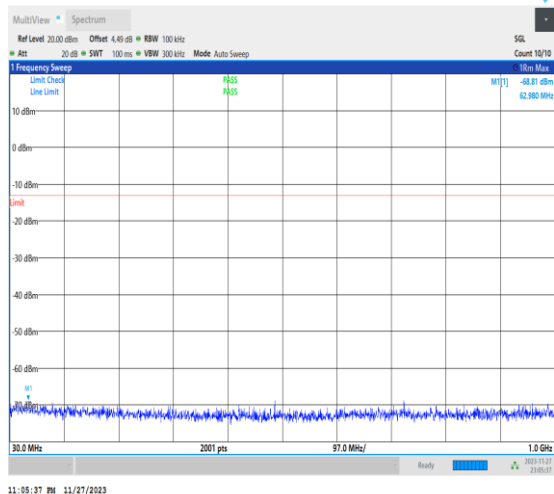
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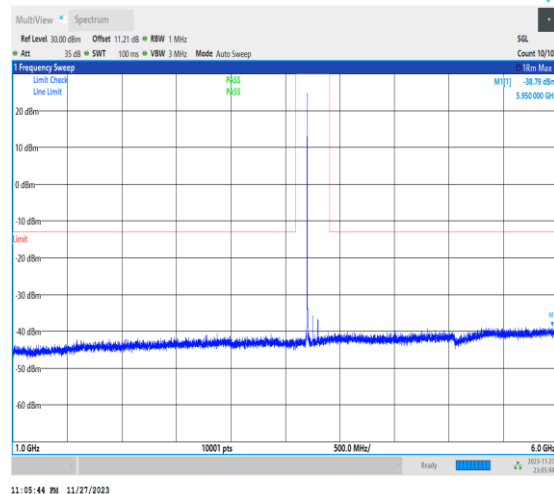
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 er_1RB_Left-1@1-1000-6000-Ant13-5695.50--38.79-
 -13-PASS



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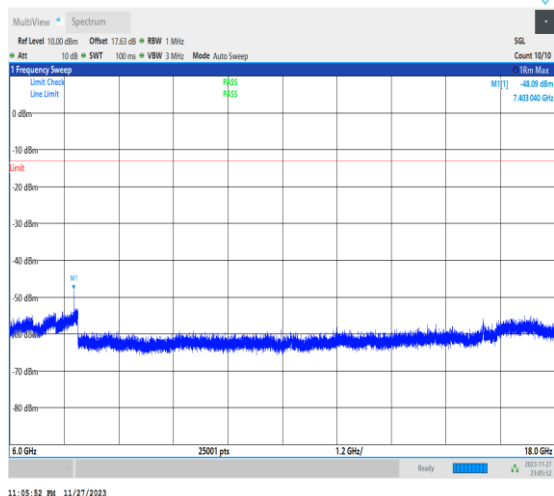
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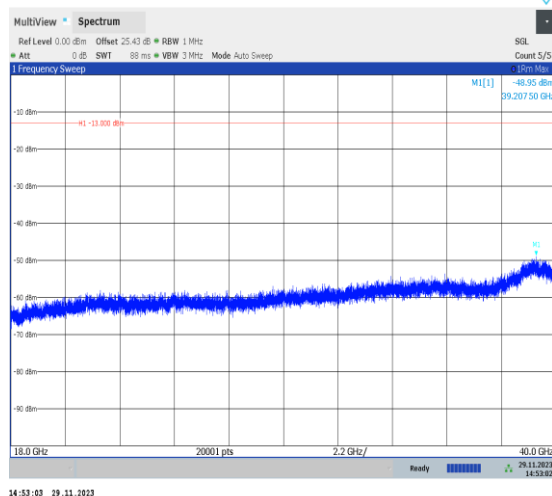
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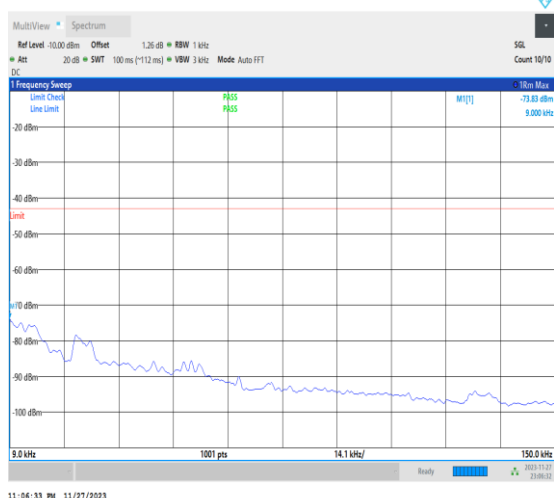
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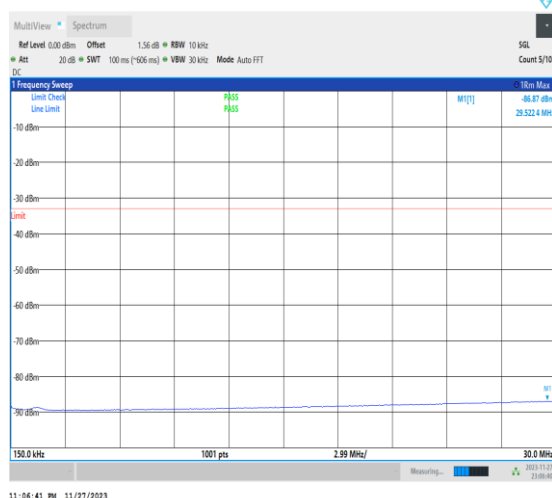
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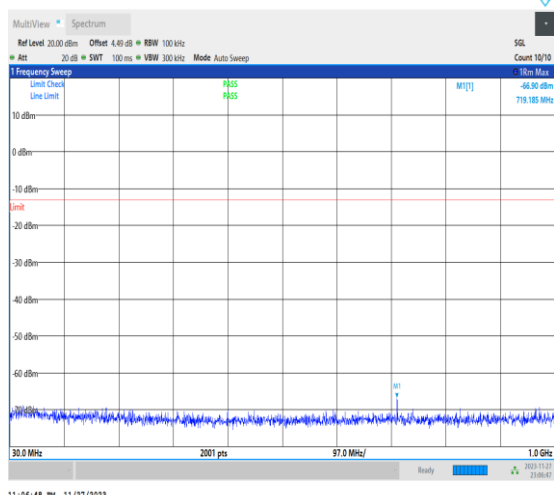
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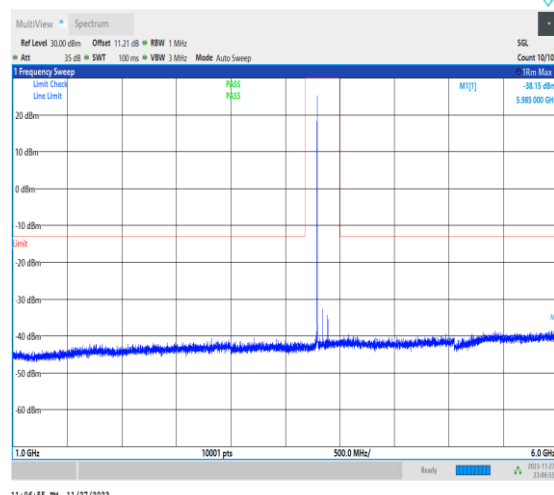
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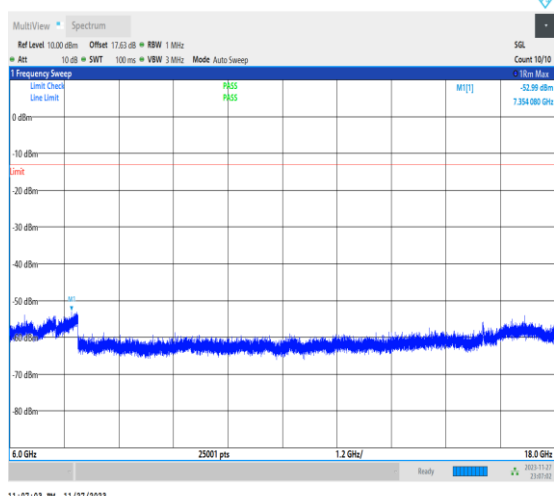
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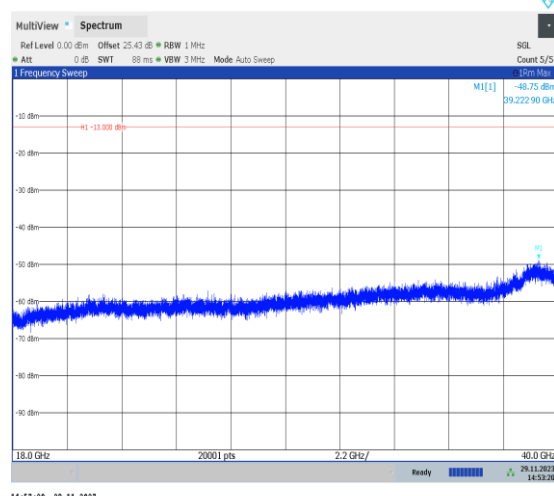
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5--13-PASS



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2.99--13-PASS



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6.53--13-PASS



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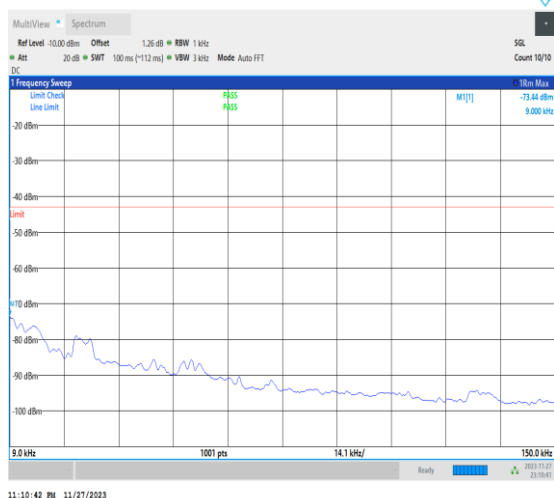
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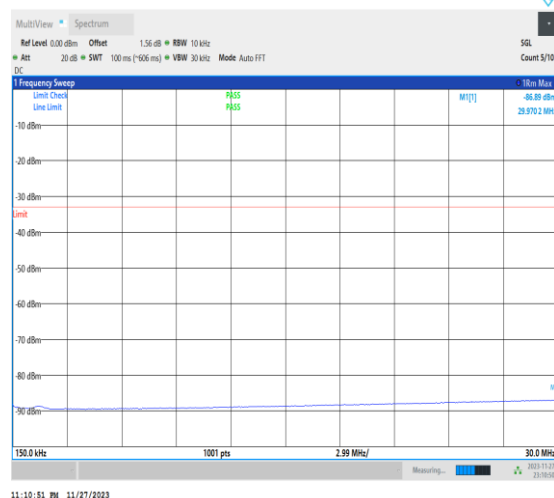
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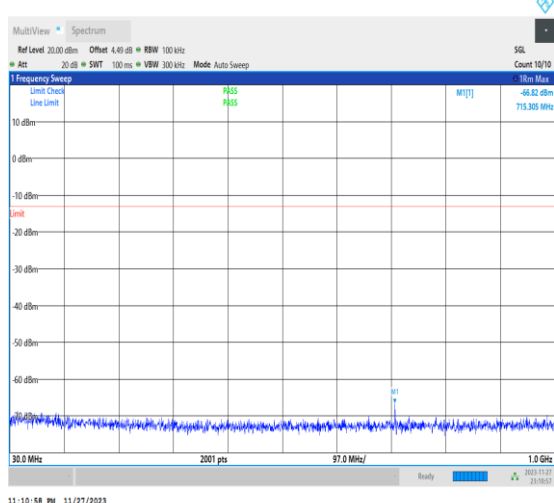
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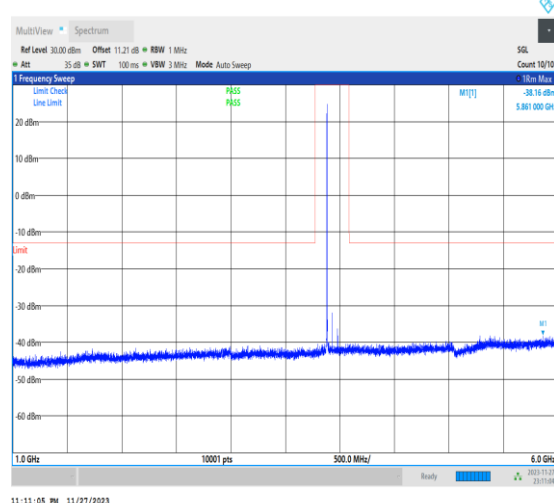
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1-N77-3700-3980-PC3-30-100-H-1-DFT-PI2BPSK-In
ner_1RB_Left-1@1-0.15-30-Ant13-0.18--86.89--33-P
ASS



1-N77-3700-3980-PC3-30-100-H-1-DFT-PI2BPSK-I
nner_1RB_Left-1@1-30-1000-Ant13-974.78--66.82-
-13-PASS



1-N77-3700-3980-PC3-30-100-H-1-DFT-PI2BPSK-In
ner_1RB_Left-1@1-1000-6000-Ant13-5731.00--38.1
6--13-PASS



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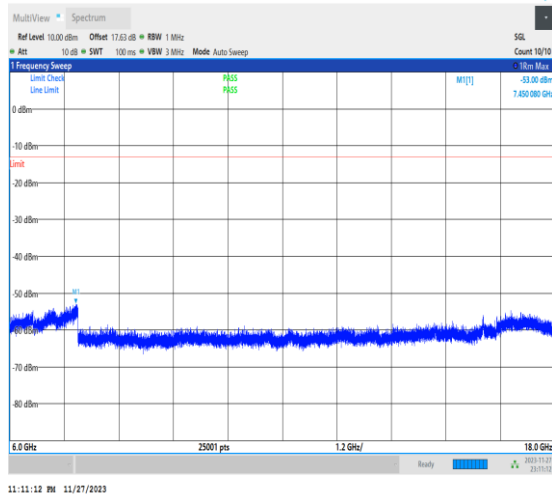
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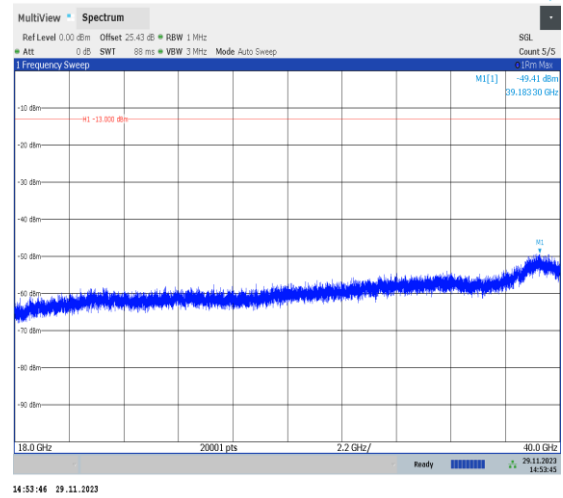
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1-N77-3700-3980-PC3-30-100-H-1-DFT-PI2BPSK-I
nner_1RB_Left-1@1-6000-18000-Ant13-7762.56--5
3.00--13-PASS



1-N77-3700-3980-PC3-30-100-H-1-DFT-PI2BPSK-In
ner_1RB_Left-1@1-18000-40000-Ant13-19406.24--5
6.84--13-PASS



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Wireless Laboratory

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Field Strength of Spurious Radiation

Test Band = SA Band77_ TM1
Test Channel = Low 3700-3980

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7310.1800	38.16	-43.27	36.07	-64.30	-13.00	51.30	Horizontal
2	8423.95	38.69	-41.47	36.59	-61.45	-13.00	48.45	Horizontal
3	9639.5	33.98	-39.31	37.52	-63.08	-13.00	50.08	Horizontal
4	10965.2700	28.13	-37.67	38.68	-66.11	-13.00	53.11	Horizontal
5	12278.175	28.80	-36.74	38.88	-64.32	-13.00	51.32	Horizontal
6	14620.3600	25.80	-35.23	41.15	-63.54	-13.00	50.54	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7310.1800	38.35	-43.27	36.07	-64.11	-13.00	51.11	Vertical
2	8819.55	36.73	-41.10	36.39	-63.23	-13.00	50.23	Vertical
3	10965.2700	28.31	-37.67	38.68	-65.93	-13.00	52.93	Vertical
4	12333.95	28.71	-36.76	38.90	-64.41	-13.00	51.41	Vertical
5	14620.3600	25.86	-35.23	41.15	-63.48	-13.00	50.48	Vertical
6	16456.125	28.91	-34.53	40.61	-60.27	-13.00	47.27	Vertical



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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	7590.1800	37.88	-42.78	36.64	-63.53	-13.00	50.53	Horizontal
2	8402.675	38.11	-41.38	36.60	-61.93	-13.00	48.93	Horizontal
3	10101.225	32.66	-38.71	38.25	-63.06	-13.00	50.06	Horizontal
4	11835.2700	25.95	-37.25	38.78	-67.78	-13.00	54.78	Horizontal
5	12853.175	28.49	-36.75	39.06	-64.47	-13.00	51.47	Horizontal
6	15180.3600	25.13	-33.90	40.92	-63.11	-13.00	50.11	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7590.1800	38.07	-42.78	36.64	-63.34	-13.00	50.34	Vertical
2	8426.825	38.21	-41.49	36.59	-61.95	-13.00	48.95	Vertical
3	9604.425	34.79	-39.21	37.45	-62.23	-13.00	49.23	Vertical
4	11835.2700	26.20	-37.25	38.78	-67.53	-13.00	54.53	Vertical
5	12820.975	28.01	-36.67	39.05	-64.88	-13.00	51.88	Vertical
6	15180.3600	24.21	-33.90	40.92	-64.03	-13.00	51.03	Vertical



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Test Band = SA Band77_ TM1
Test Channel = High 3700-3980

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7870.1800	37.82	-42.69	36.75	-63.38	-13.00	50.38	Horizontal
2	8961.575	36.26	-40.89	36.32	-63.57	-13.00	50.57	Horizontal
3	10458.875	31.69	-38.74	38.43	-63.88	-13.00	50.88	Horizontal
4	11805.2700	25.69	-37.21	38.78	-68.00	-13.00	55.00	Horizontal
5	12841.675	28.18	-36.72	39.05	-64.75	-13.00	51.75	Horizontal
6	15740.3600	23.86	-33.18	39.74	-64.83	-13.00	51.83	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7870.1800	36.98	-42.69	36.75	-64.22	-13.00	51.22	Vertical
2	8998.375	36.62	-40.87	36.30	-63.21	-13.00	50.21	Vertical
3	10392.75	31.98	-38.74	38.40	-63.62	-13.00	50.62	Vertical
4	11805.2700	25.20	-37.21	38.78	-68.49	-13.00	55.49	Vertical
5	13344.225	26.70	-36.60	39.72	-65.44	-13.00	52.44	Vertical
6	15740.3600	23.34	-33.18	39.74	-65.35	-13.00	52.35	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	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	5.900000	0.001536	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	3.600000	0.000938	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	3.700000	0.000964	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	4.500000	0.001172	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	3.800000	0.000990	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	-3.400000	-0.000885	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	7.400000	0.001927	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	9.400000	0.002448	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	2.500000	0.000651	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	3.100000	0.000807	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	2.500000	0.000651	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	7.300000	0.001901	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	5.500000	0.001432	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	4.000000	0.001042	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	6.200000	0.001615	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	2.000000	0.000521	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-20	11.600000	0.003021	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	4.400000	0.001146	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	7.100000	0.001849	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	10	-3.000000	-0.000781	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	20	8.500000	0.002214	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	2.200000	0.000573	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	2.000000	0.000521	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	4.400000	0.001146	PASS

---End of Attachment---



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