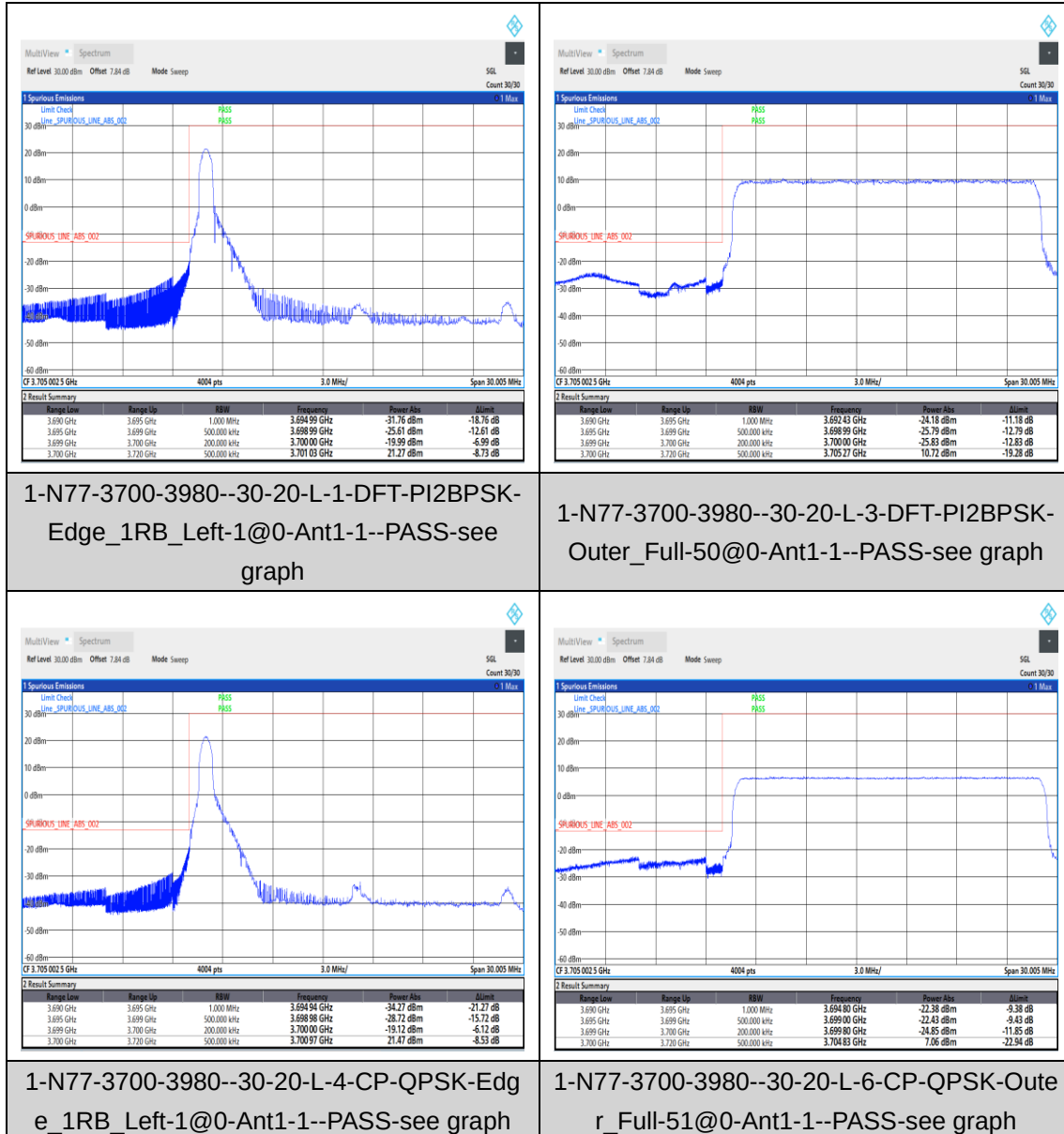
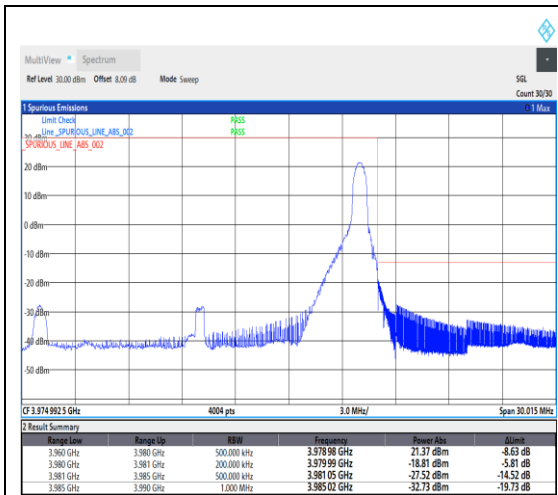


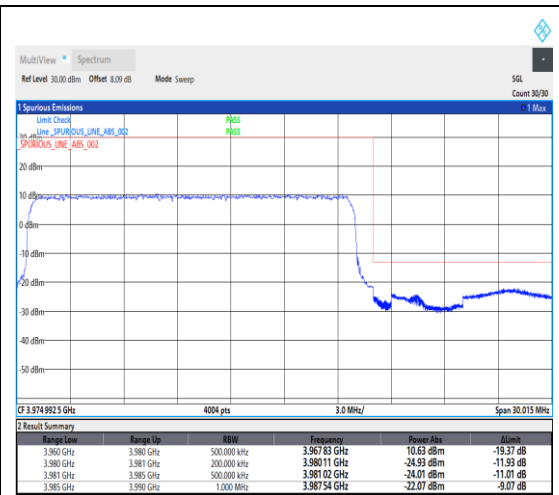
4. Band Edge for SA

Test Graphs

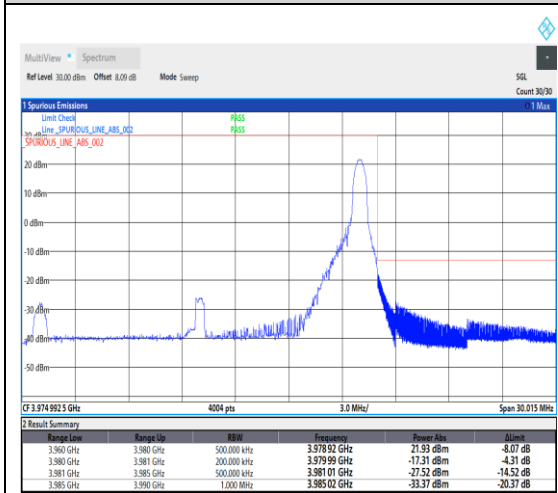




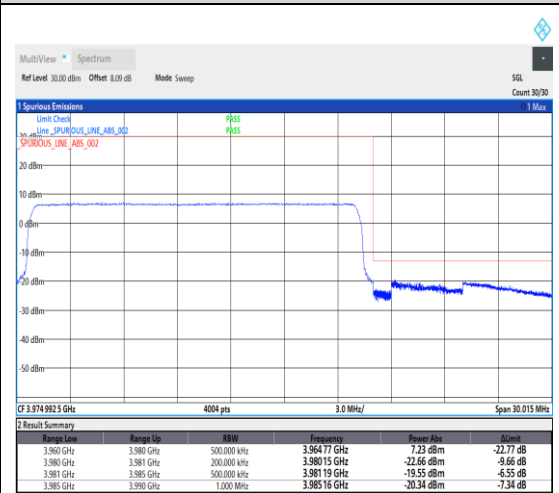
1-N77-3700-3980--30-20-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@50-Ant1-1--PASS-see graph



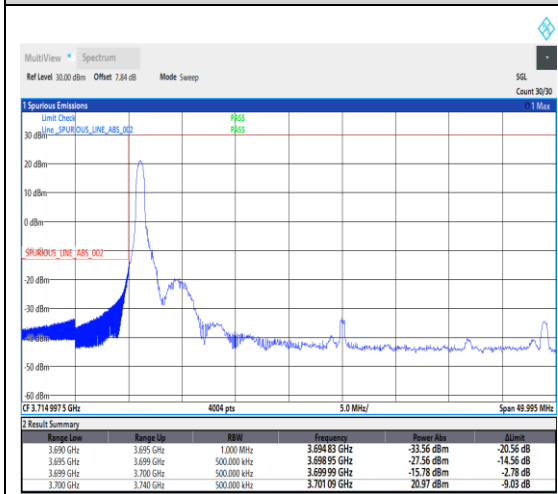
1-N77-3700-3980--30-20-H-3-DFT-PI2BPSK-Outer_Full-50@0-Ant1-1--PASS-see graph



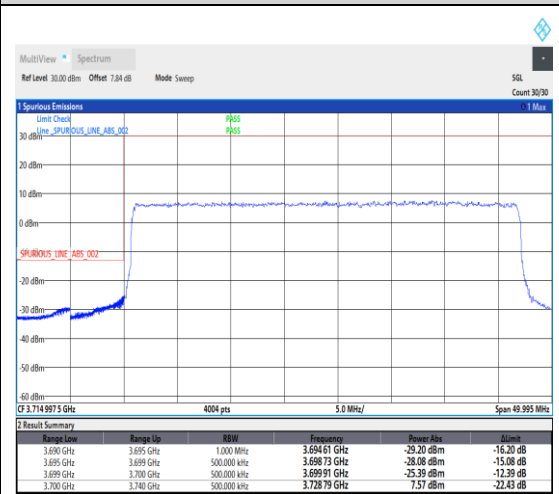
1-N77-3700-3980--30-20-H-5-CP-QPSK-Edge_1RB_Right-1@50-Ant1-1--PASS-see graph



1-N77-3700-3980--30-20-H-6-CP-QPSK-Outer_Full-51@0-Ant1-1--PASS-see graph

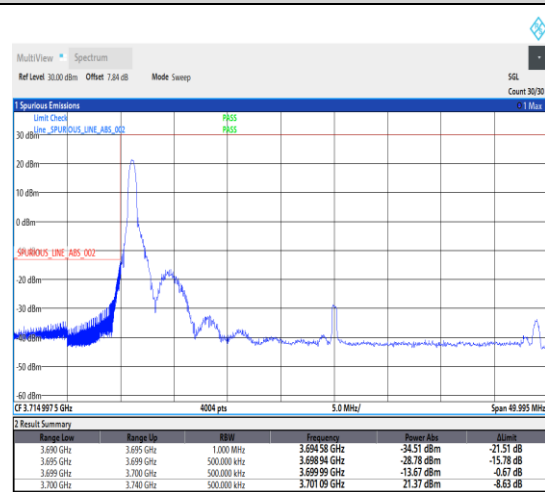


1-N77-3700-3980--30-40-L-1-DFT-PI2BPSK-

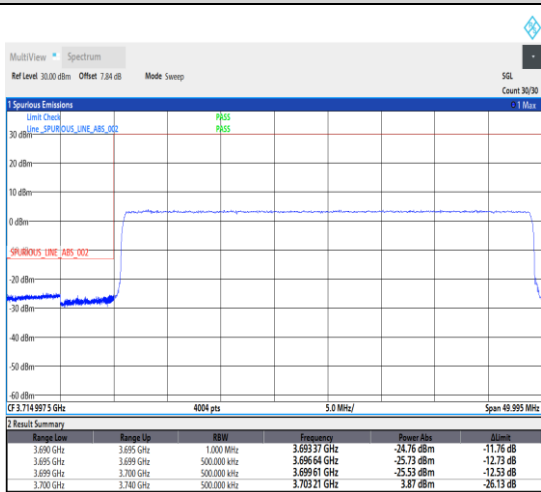


1-N77-3700-3980--30-40-L-3-DFT-PI2BPSK-

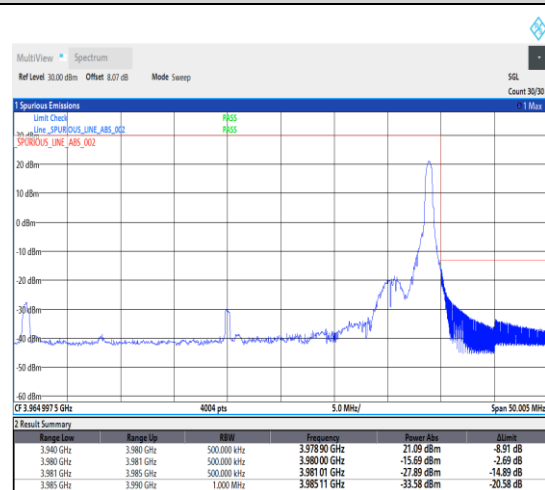
Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



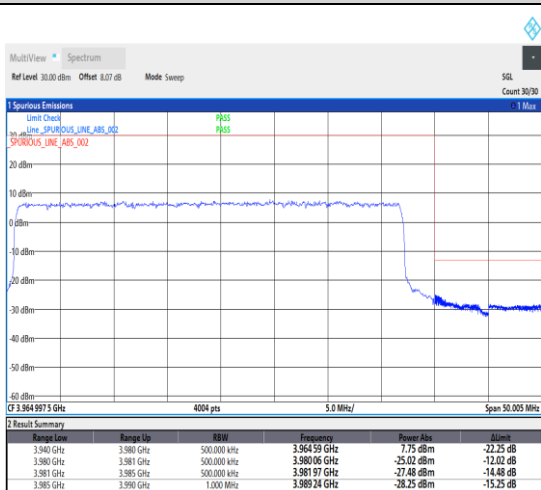
Outer_Full-100@0-Ant1-1--PASS-see graph



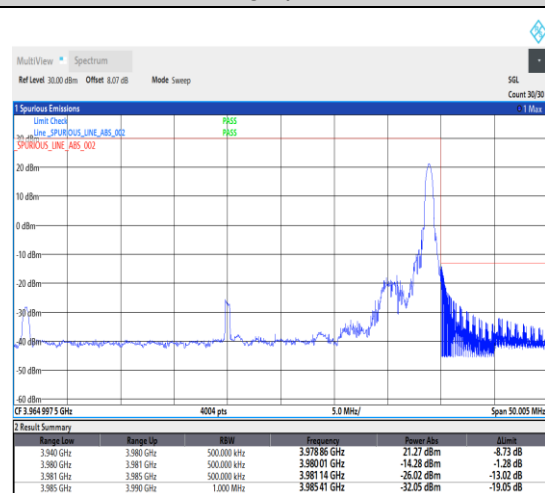
1-N77-3700-3980--30-40-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



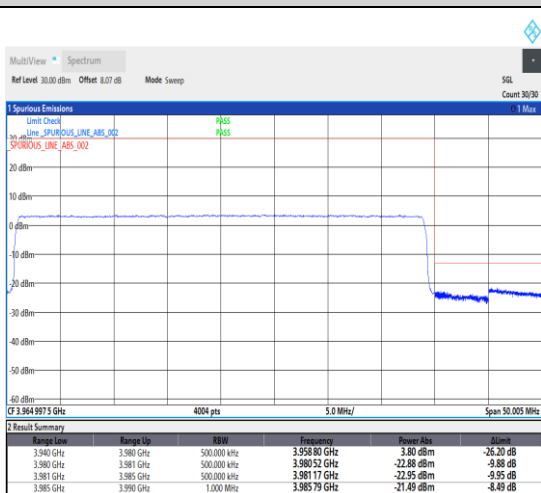
1-N77-3700-3980--30-40-L-6-CP-QPSK-Outer_Full-106@0-Ant1-1--PASS-see graph



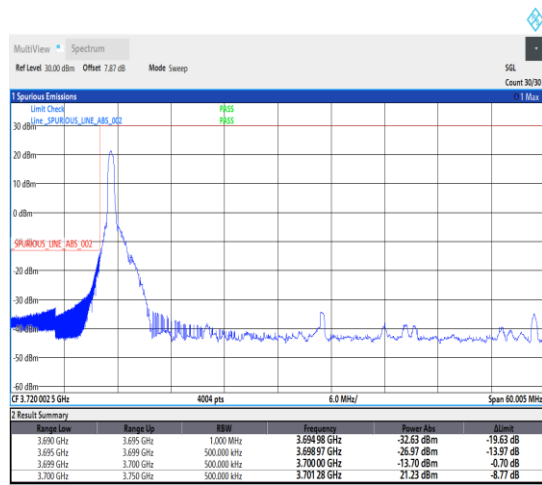
1-N77-3700-3980--30-40-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@105-Ant1-1--PASS-see graph



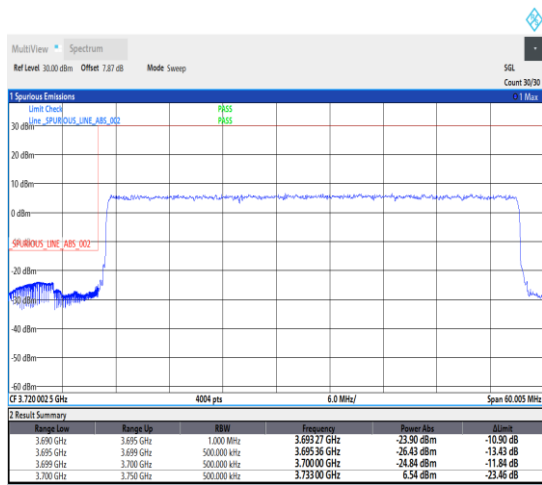
1-N77-3700-3980--30-40-H-3-DFT-PI2BPSK-Outer_Full-100@0-Ant1-1--PASS-see graph



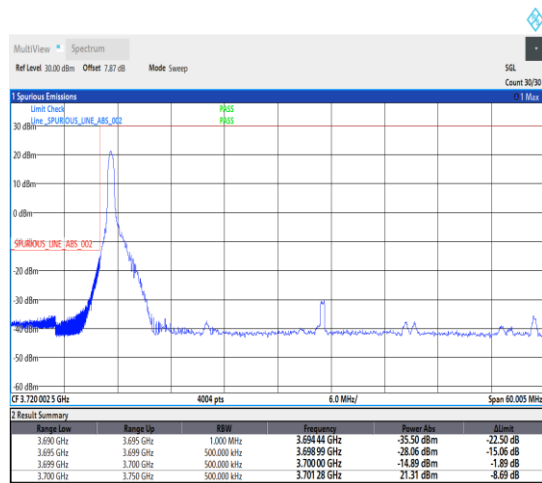
1-N77-3700-3980--30-40-H-5-CP-QPSK-Edge_1RB_Right-1@105-Ant1-1--PASS-see graph



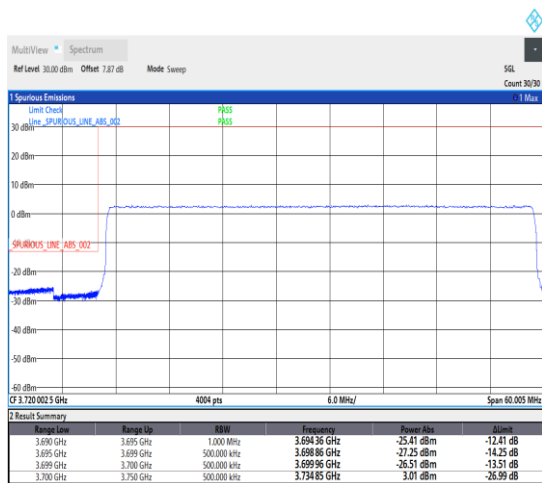
1-N77-3700-3980--30-40-H-6-CP-QPSK-Out er_Full-106@0-Ant1-1--PASS-see graph



1-N77-3700-3980--30-50-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



1-N77-3700-3980--30-50-L-3-DFT-PI2BPSK-Outer_Full-128@0-Ant1-1--PASS-see graph

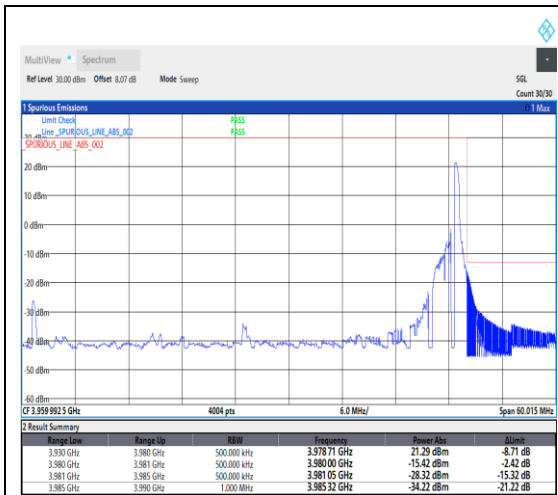


1-N77-3700-3980--30-50-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

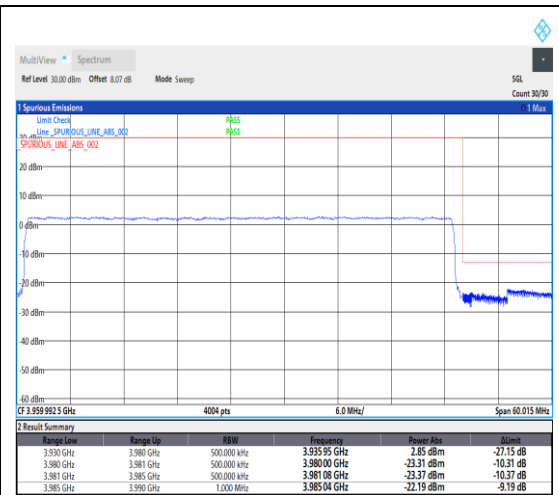


1-N77-3700-3980--30-50-L-6-CP-QPSK-Outer_Full-133@0-Ant1-1--PASS-see graph

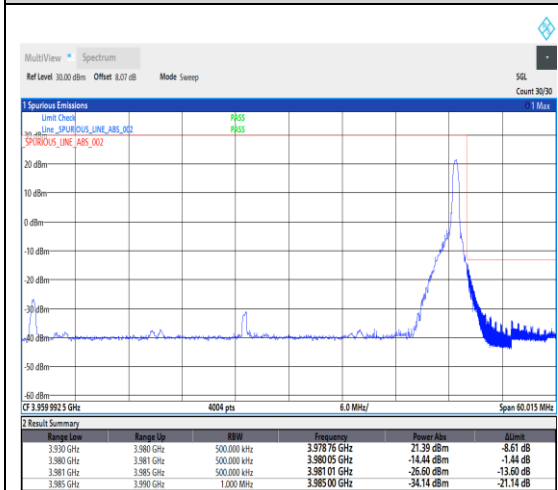




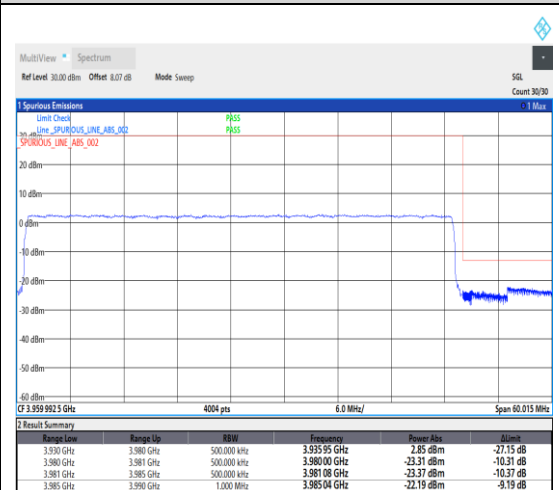
1-N77-3700-3980--30-50-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@132-Ant1-1--PASS-see graph



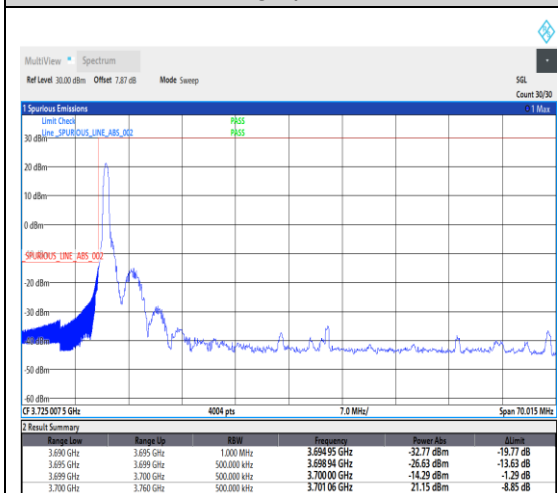
1-N77-3700-3980--30-50-H-3-DFT-PI2BPSK-Outer_Full-128@0-Ant1-1--PASS-see graph



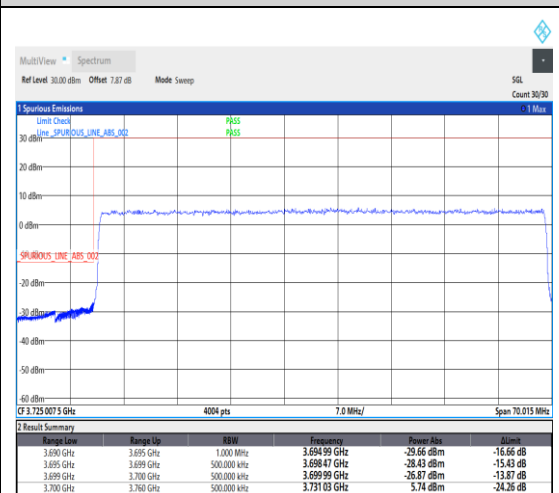
1-N77-3700-3980--30-50-H-5-CP-QPSK-Edge_1RB_Right-1@132-Ant1-1--PASS-see graph



1-N77-3700-3980--30-50-H-6-CP-QPSK-Outer_Full-133@0-Ant1-1--PASS-see graph

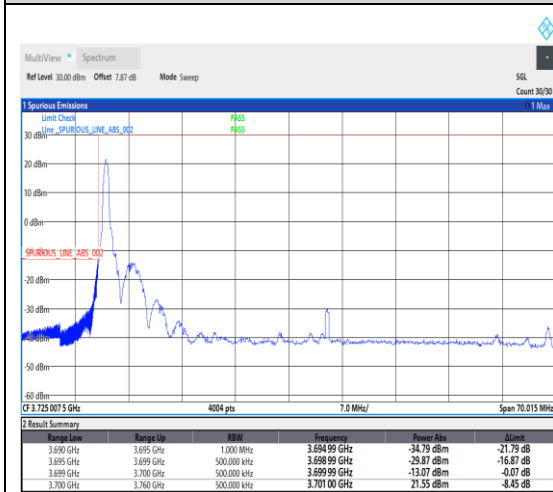


1-N77-3700-3980--30-60-L-1-DFT-PI2BPSK-

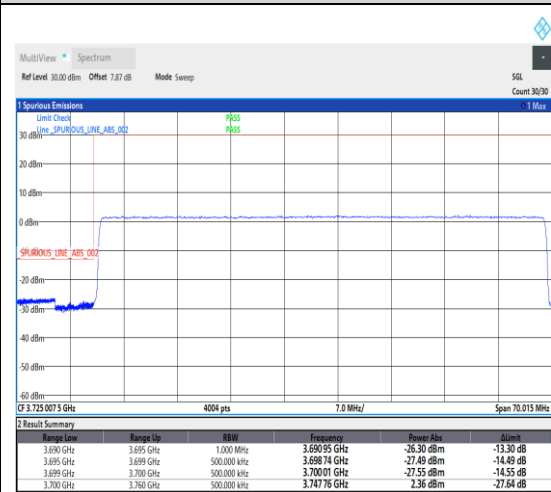


1-N77-3700-3980--30-60-L-3-DFT-PI2BPSK-

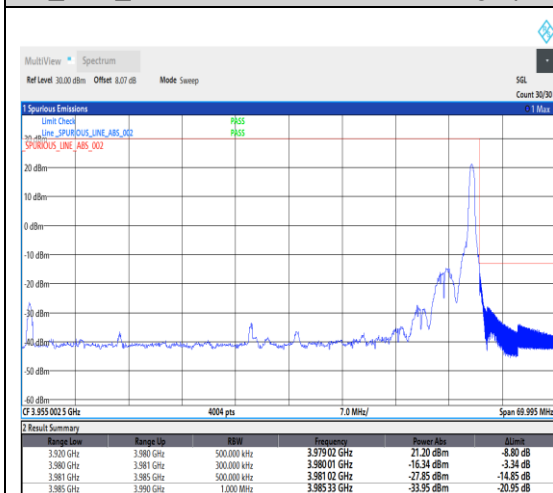
Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



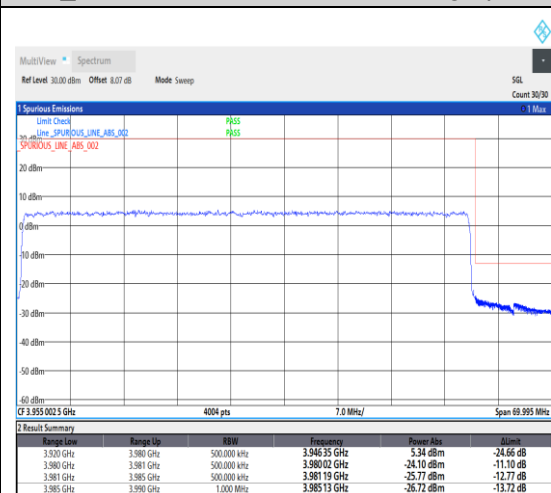
Outer_Full-162@0-Ant1-1--PASS-see graph



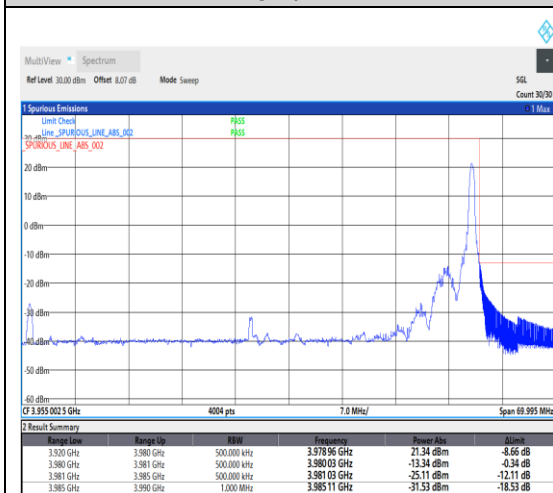
1-N77-3700-3980--30-60-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



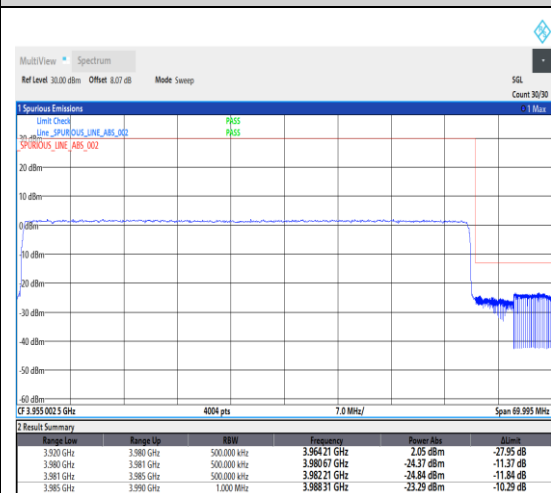
1-N77-3700-3980--30-60-L-6-CP-QPSK-Outer_Full-162@0-Ant1-1--PASS-see graph



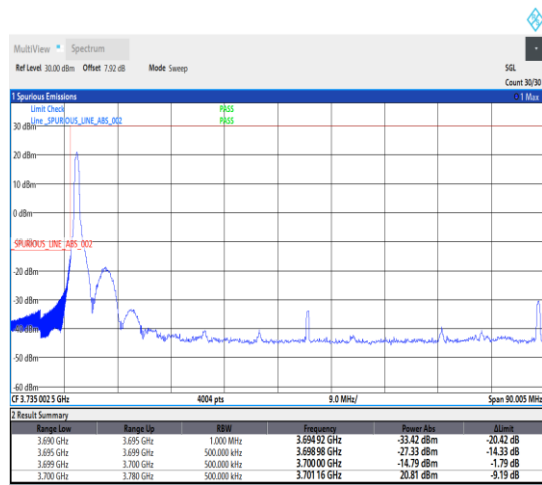
1-N77-3700-3980--30-60-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@161-Ant1-1--PASS-see graph



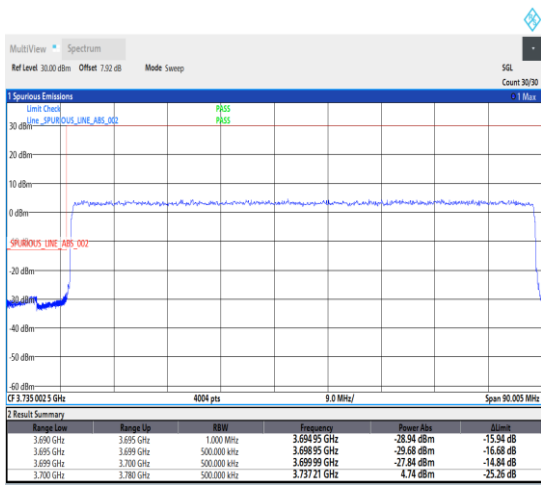
1-N77-3700-3980--30-60-H-3-DFT-PI2BPSK-Outer_Full-162@0-Ant1-1--PASS-see graph



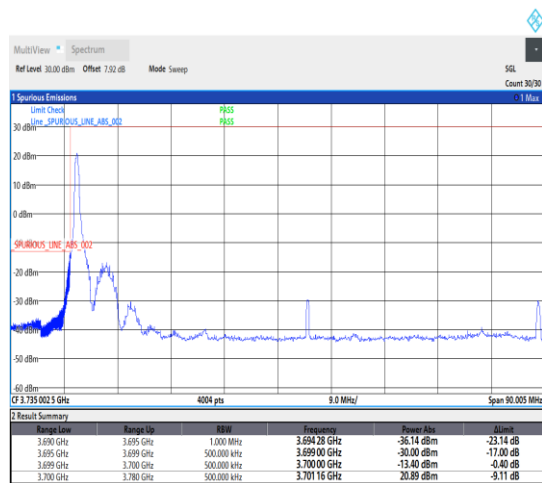
1-N77-3700-3980--30-60-H-5-CP-QPSK-Edge_1RB_Right-1@161-Ant1-1--PASS-see graph



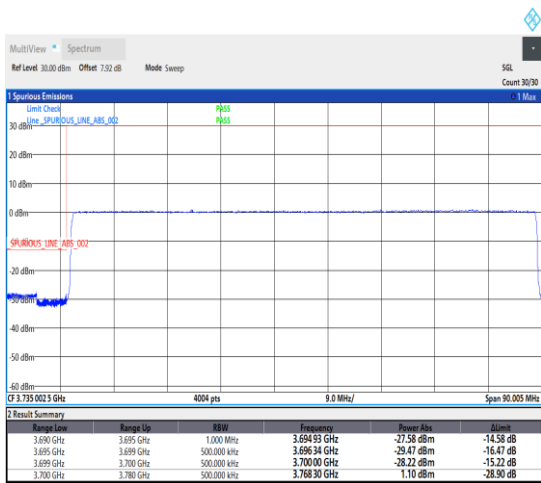
1-N77-3700-3980--30-60-H-6-CP-QPSK-Out er_Full-162@0-Ant1-1--PASS-see graph



1-N77-3700-3980--30-80-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



1-N77-3700-3980--30-80-L-3-DFT-PI2BPSK-Outer_Full-216@0-Ant1-1--PASS-see graph

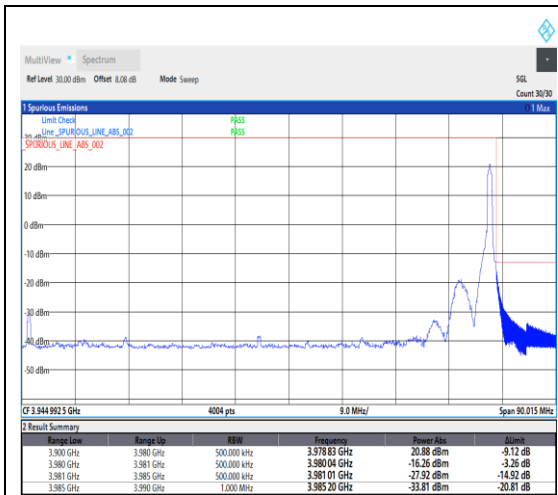


1-N77-3700-3980--30-80-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

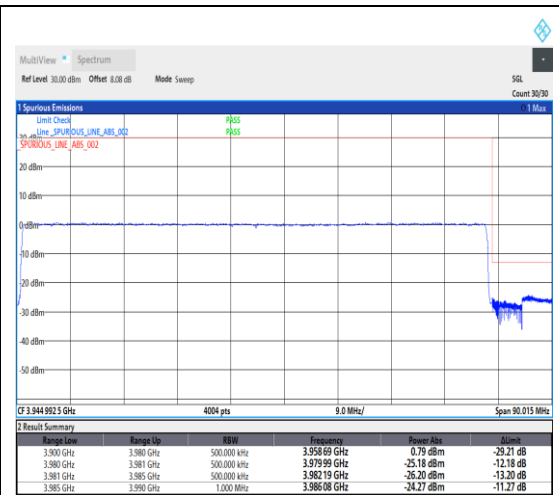


1-N77-3700-3980--30-80-L-6-CP-QPSK-Outer_Full-217@0-Ant1-1--PASS-see graph

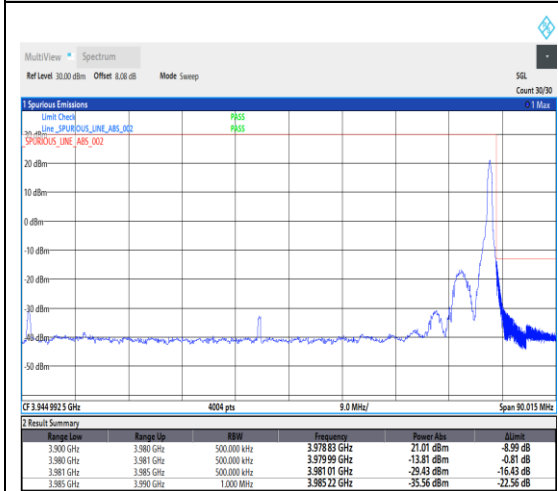




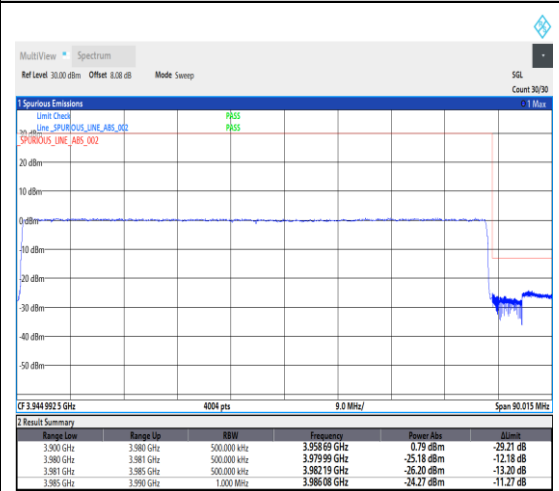
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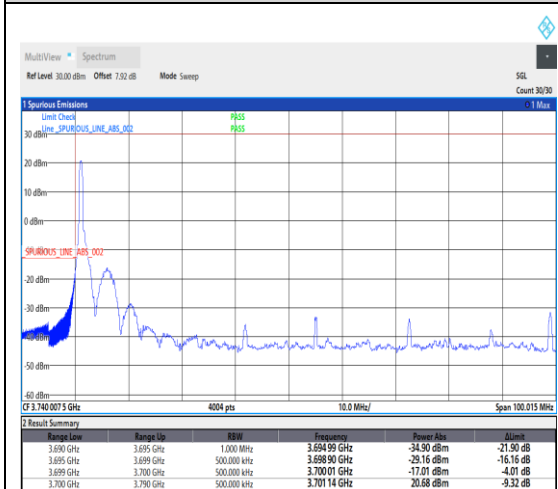
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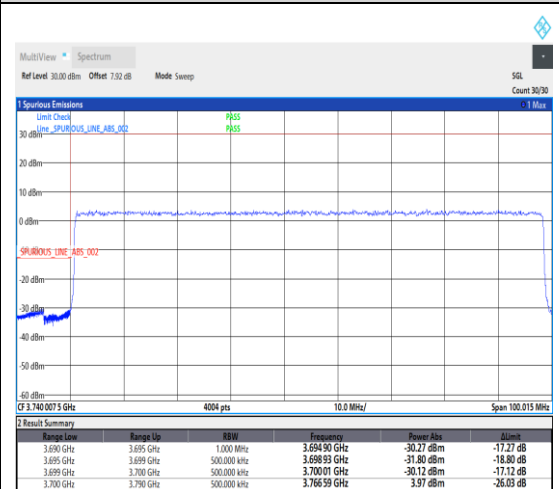
1-N77-3700-3980--30-80-H-5-CP-QPSK-Edge_1RB_Right-1@216-Ant1-1--PASS-see graph



1-N77-3700-3980--30-80-H-6-CP-QPSK-Outer_Full-217@0-Ant1-1--PASS-see graph

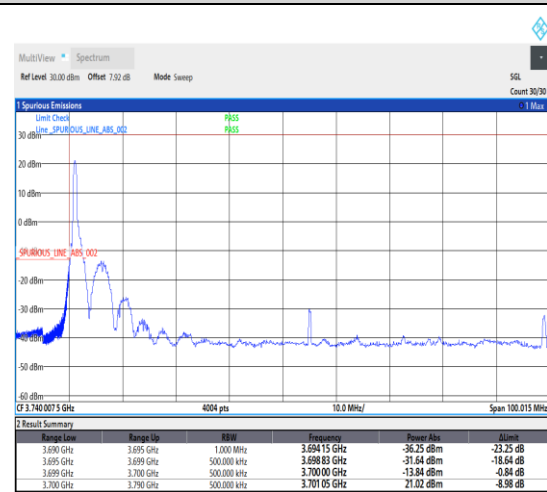


1-N77-3700-3980--30-90-L-1-DFT-PI2BPSK-

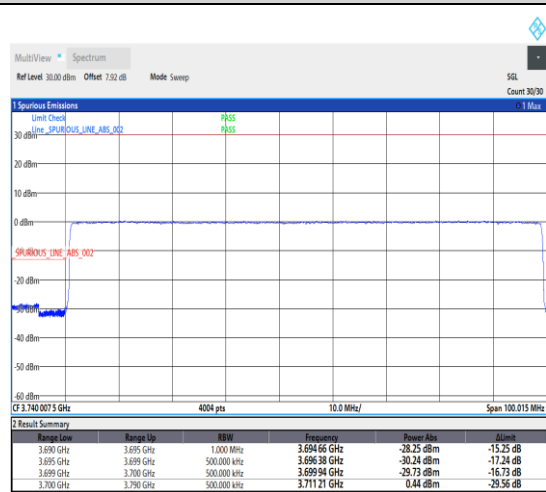


1-N77-3700-3980--30-90-L-3-DFT-PI2BPSK-

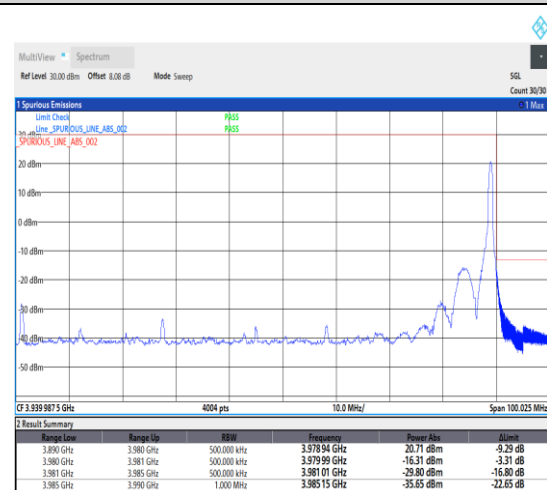
Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



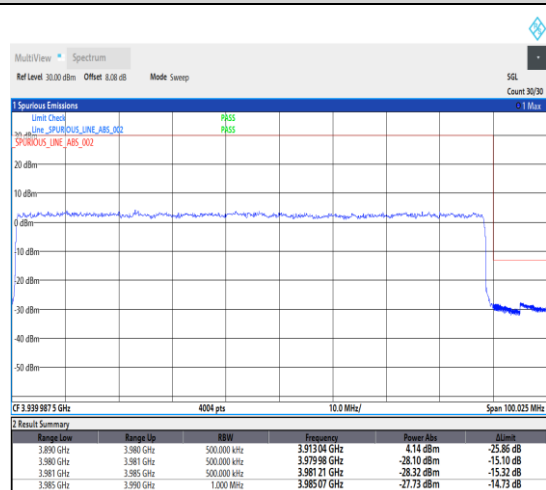
Outer_Full-243@0-Ant1-1--PASS-see graph



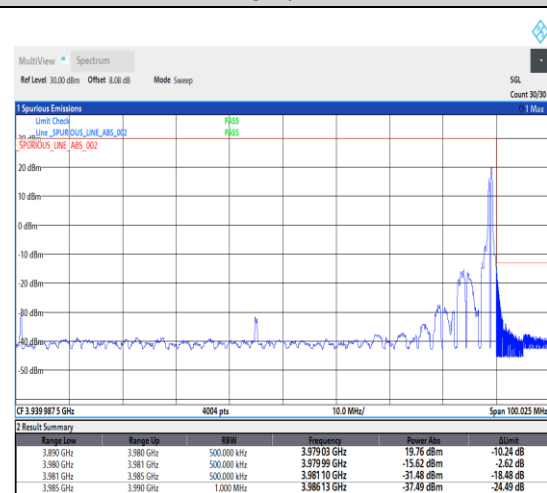
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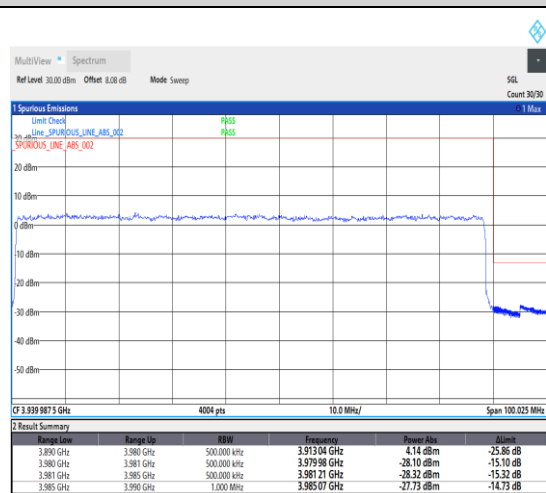
1-N77-3700-3980--30-90-L-6-CP-QPSK-Outer_Full-245@0-Ant1-1--PASS-see graph



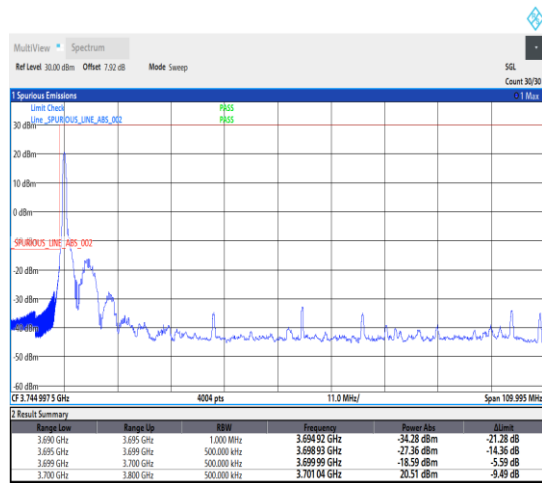
1-N77-3700-3980--30-90-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@244-Ant1-1--PASS-see graph



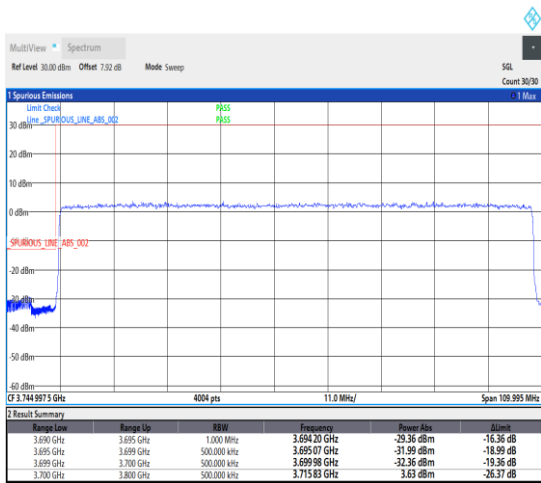
1-N77-3700-3980--30-90-H-3-DFT-PI2BPSK-Outer_Full-243@0-Ant1-1--PASS-see graph



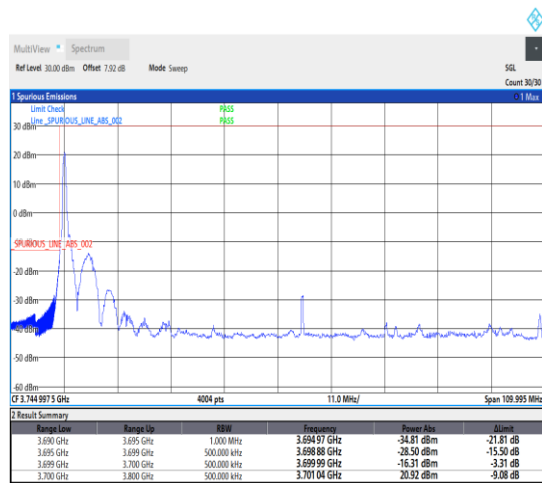
1-N77-3700-3980--30-90-H-5-CP-QPSK-Edge_1RB_Right-1@244-Ant1-1--PASS-see graph



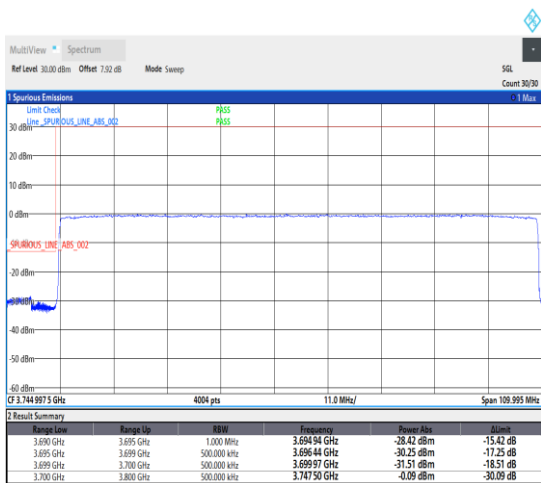
1-N77-3700-3980--30-90-H-6-CP-QPSK-Out er_Full-245@0-Ant1-1--PASS-see graph



1-N77-3700-3980--30-100-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



1-N77-3700-3980--30-100-L-3-DFT-PI2BPSK-Out er_Full-270@0-Ant1-1--PASS-see graph

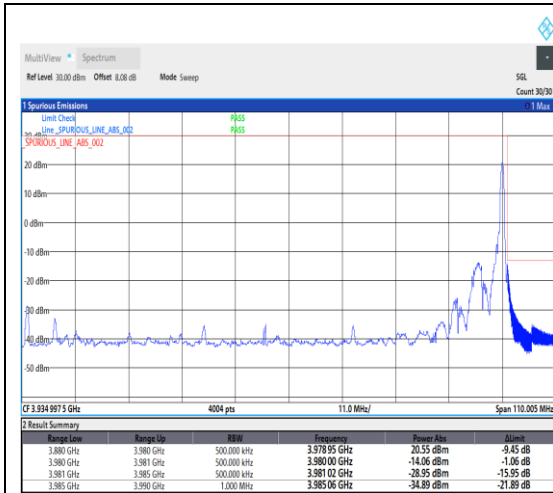


1-N77-3700-3980--30-100-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

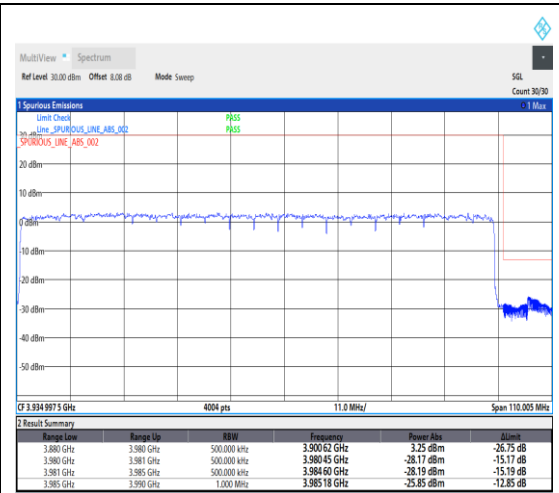


1-N77-3700-3980--30-100-L-6-CP-QPSK-Out er_Full-273@0-Ant1-1--PASS-see graph

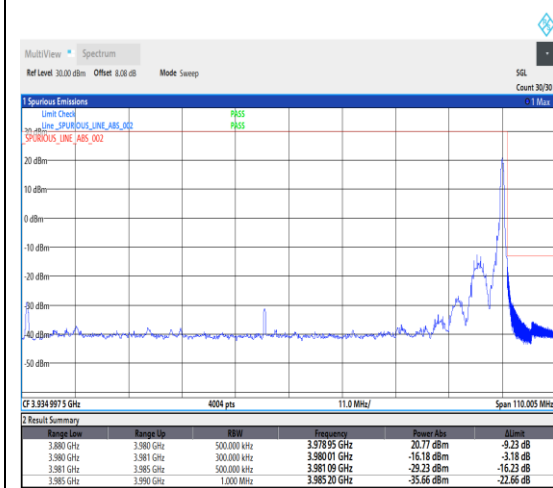




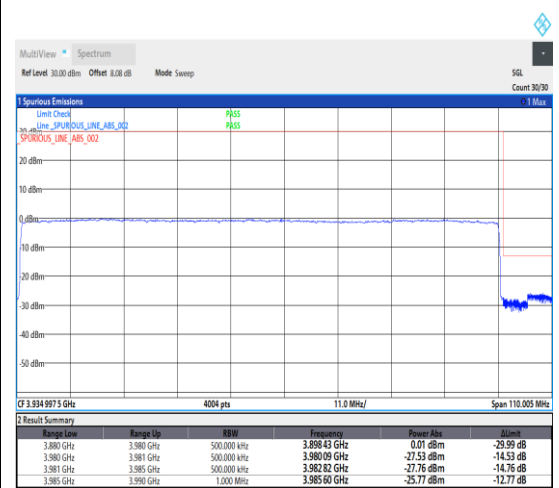
1-N77-3700-3980--30-100-H-2-DFT-PI2BPS
K-Edge_1RB_Right-1@272-Ant1-1--PASS-s
ee graph



1-N77-3700-3980--30-100-H-3-DFT-PI2BPS
K-Outer_Full-270@0-Ant1-1--PASS-see
graph



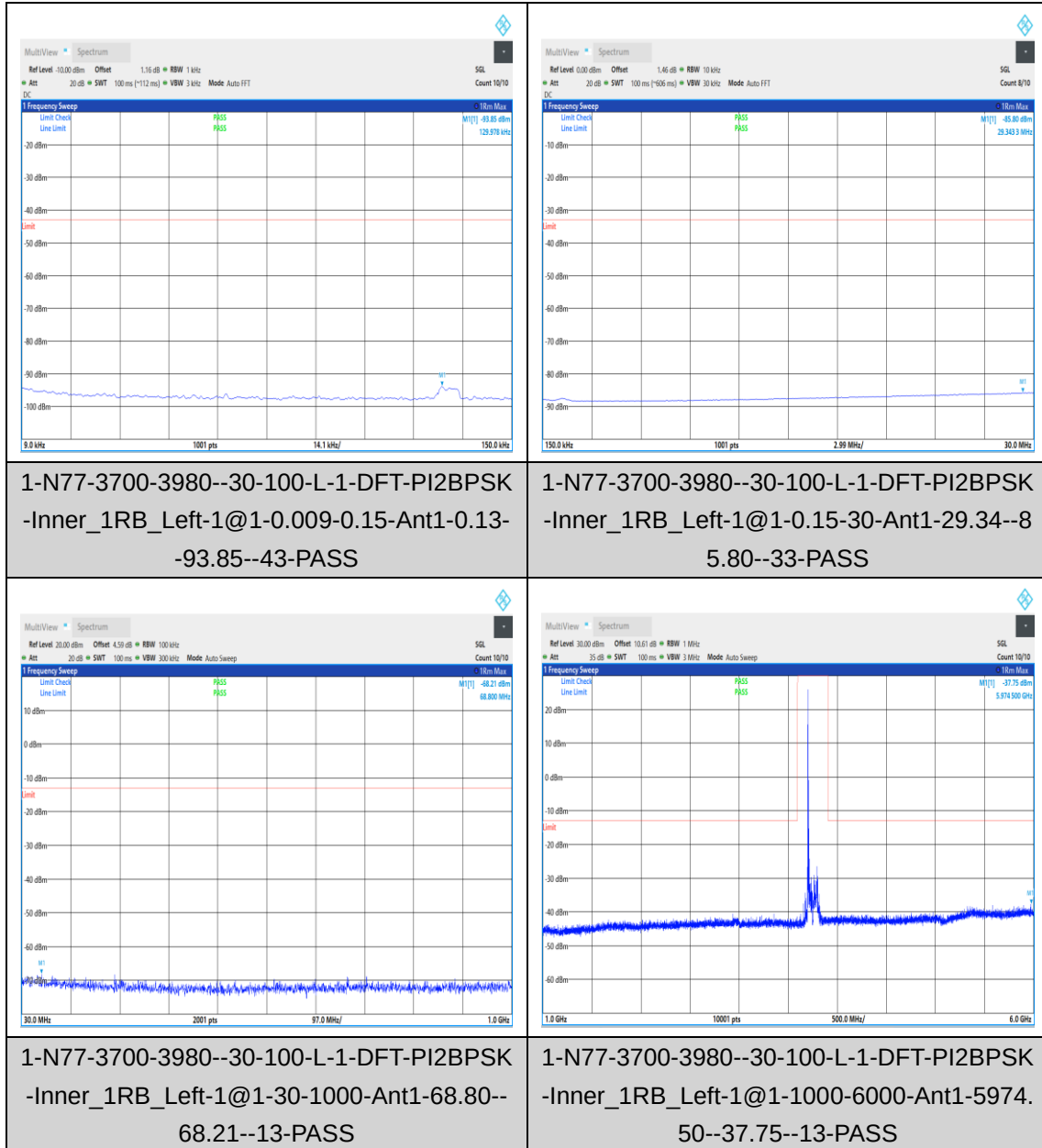
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graph

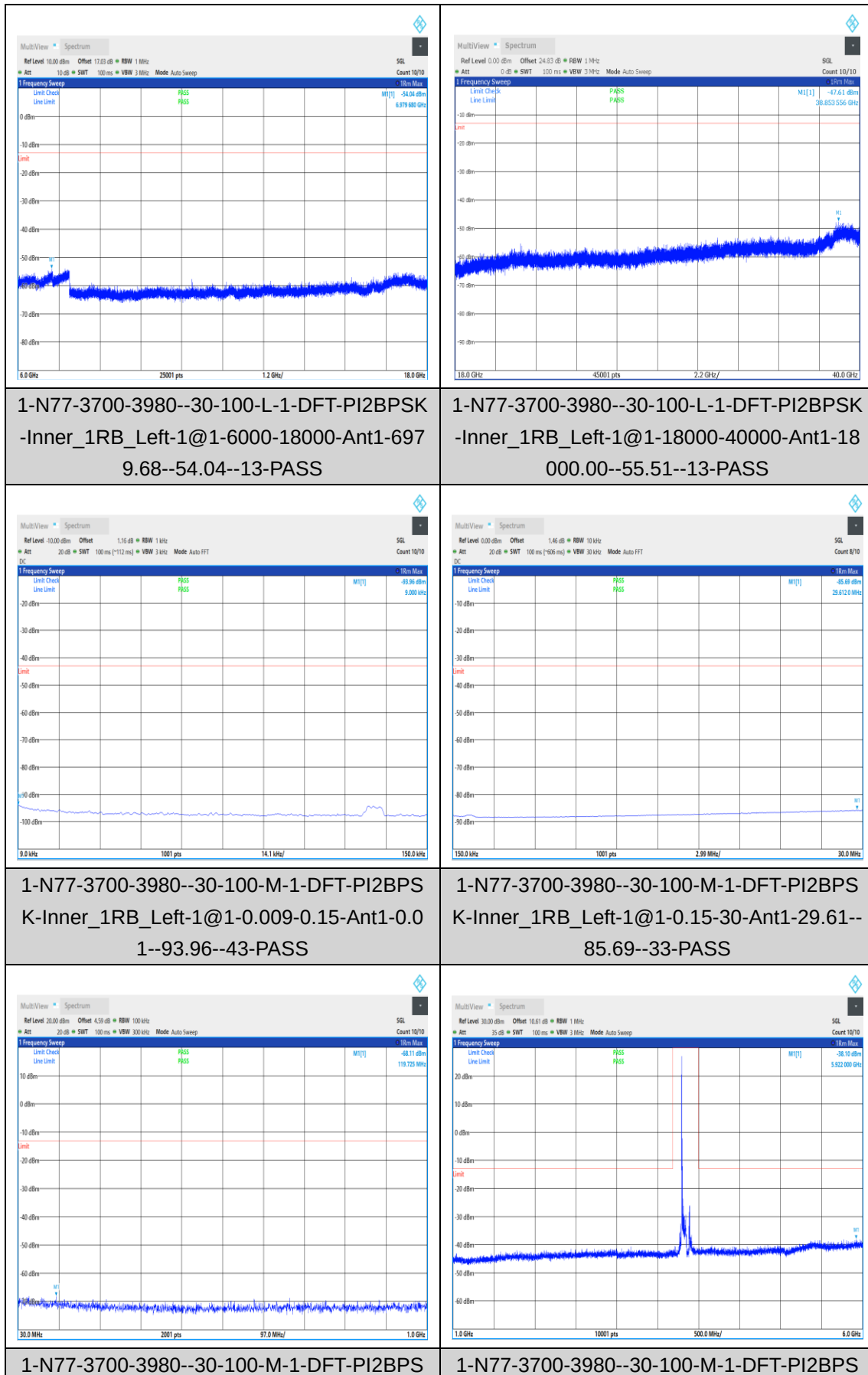


1-N77-3700-3980--30-100-H-6-CP-QPSK-Outer_Full-273@0-Ant1-1--PASS-see
graph

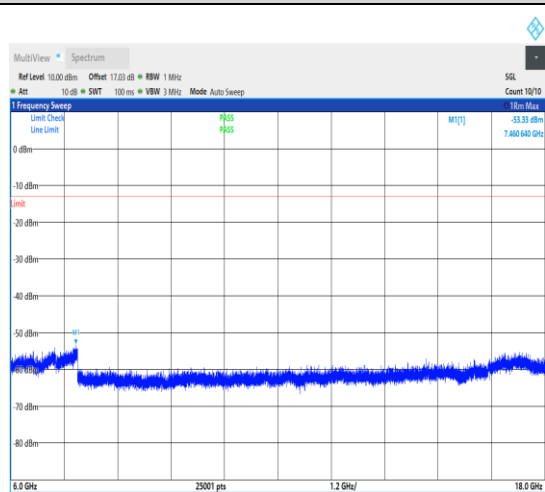
5. Conducted Spurious Emission for SA

Test Graphs

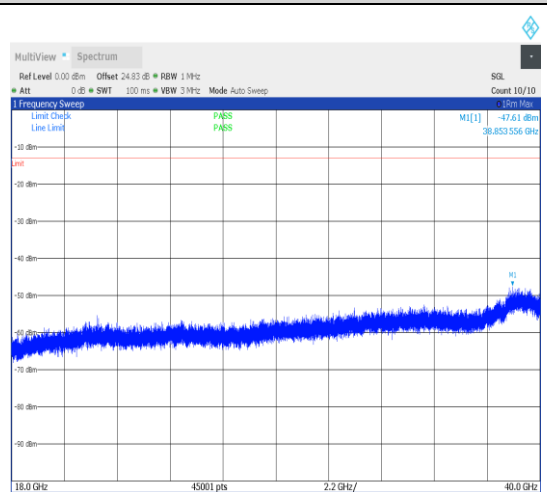




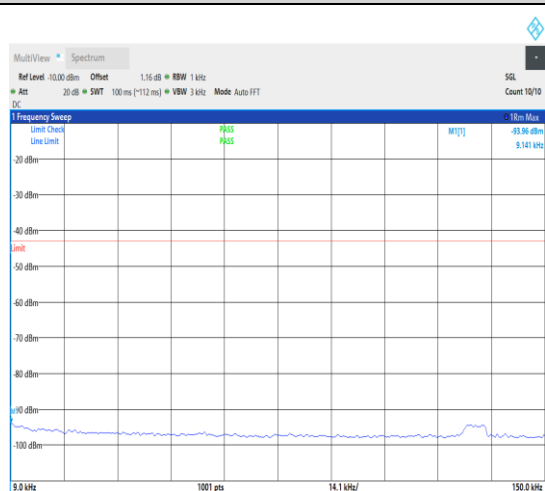
K-Inner_1RB_Left-1@1-30-1000-Ant1-119.73
--68.11--13-PASS



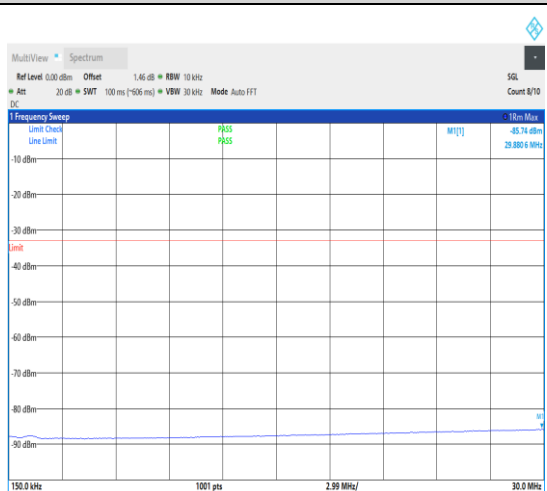
K-Inner_1RB_Left-1@1-1000-6000-Ant1-592
2.00--38.10--13-PASS



1-N77-3700-3980--30-100-M-1-DFT-PI2BPS
K-Inner_1RB_Left-1@1-6000-18000-Ant1-74
60.64--53.33--13-PASS

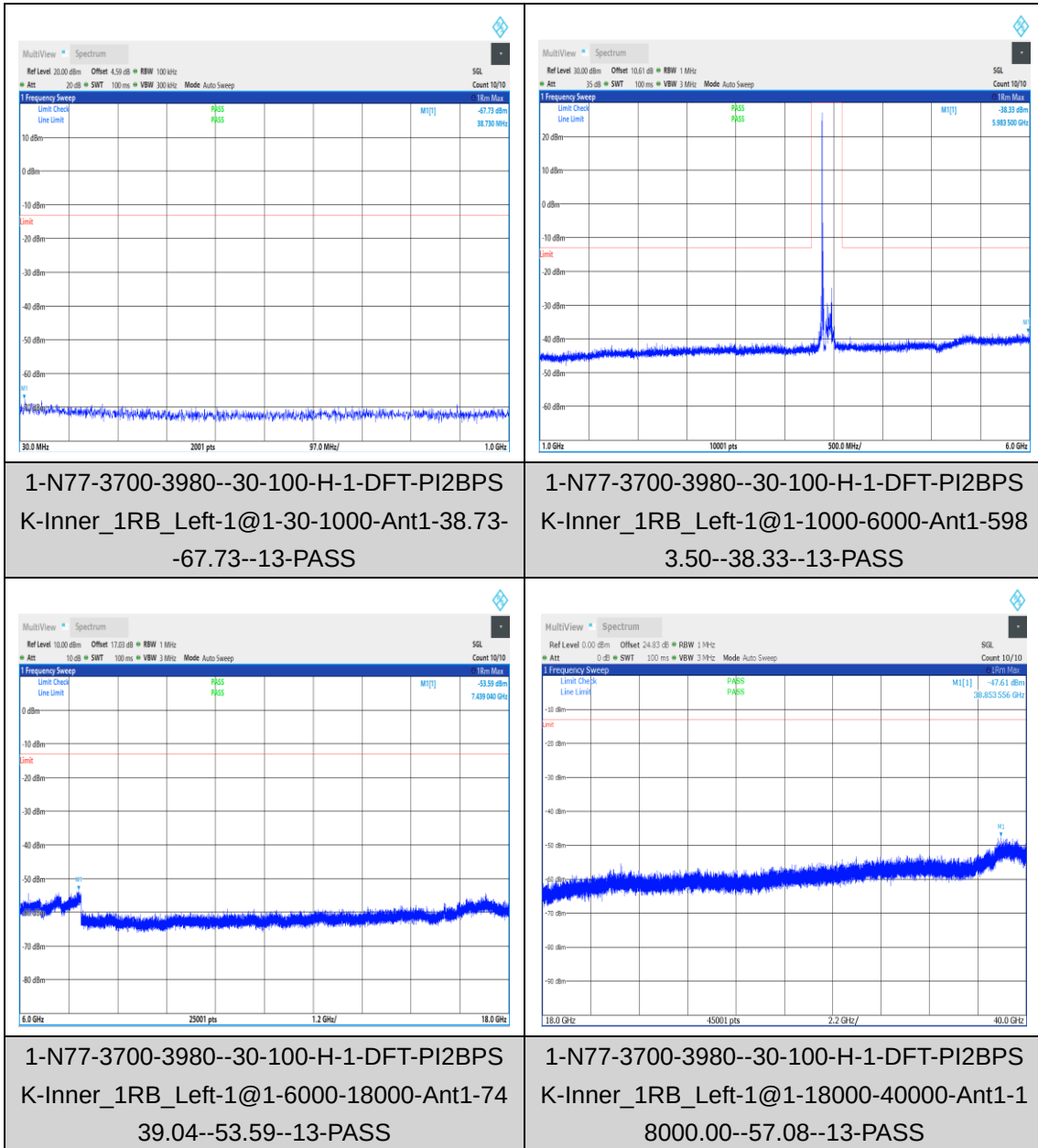


1-N77-3700-3980--30-100-M-1-DFT-PI2BPS
K-Inner_1RB_Left-1@1-18000-40000-Ant1-1
8000.00--56.87--13-PASS



1-N77-3700-3980--30-100-H-1-DFT-PI2BPS
K-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.0
1--93.96--43-PASS

1-N77-3700-3980--30-100-H-1-DFT-PI2BPS
K-Inner_1RB_Left-1@1-0.15-30-Ant1-29.88--
85.74--33-PASS



6.Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-370 0-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	9.100000	0.002370	PASS
N77-370 0-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	25.200000	0.006563	PASS
N77-370 0-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	12.900000	0.003359	PASS
N77-370 0-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	8.900000	0.002318	PASS
N77-370 0-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	14.600000	0.003802	PASS
N77-370 0-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	13.900000	0.003620	PASS

Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-370 0-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	9.200000	0.002396	PASS
N77-370 0-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	7.400000	0.001927	PASS
N77-370 0-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	13.300000	0.003464	PASS
N77-370 0-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	14.600000	0.003802	PASS
N77-370 0-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	15.200000	0.003958	PASS
N77-370 0-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	7.500000	0.001953	PASS
N77-370	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	11.700000	0.003047	PASS

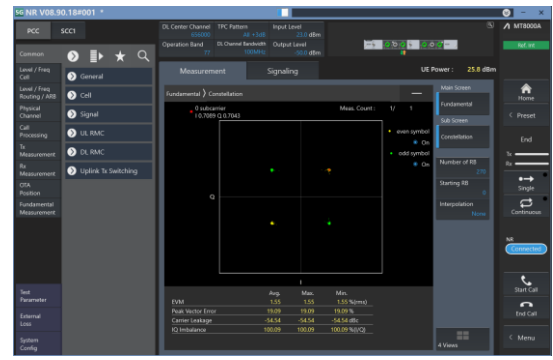
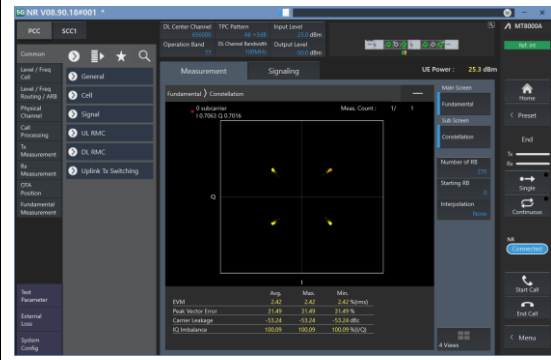
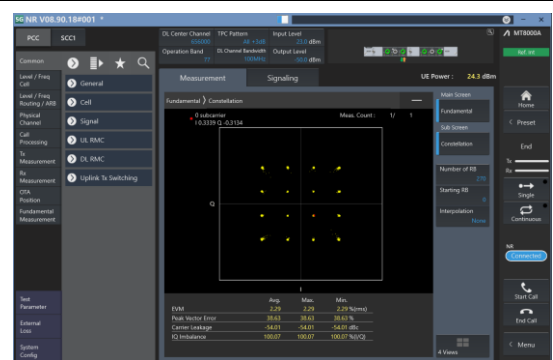
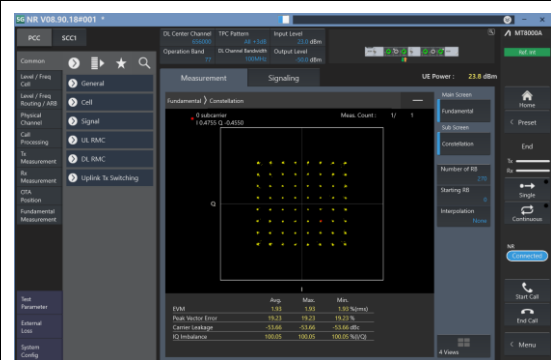
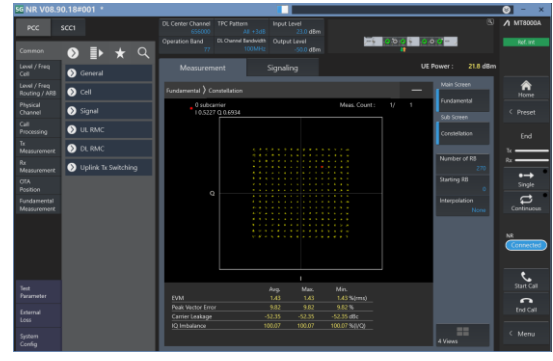
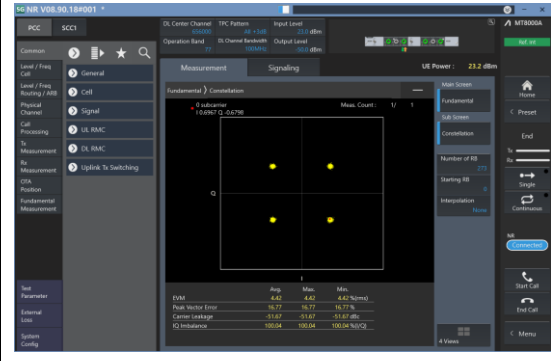
0-3980										
N77-370 0-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	16.000000	0.004167	PASS
N77-370 0-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	12.800000	0.003333	PASS
N77-370 0-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	13.900000	0.003620	PASS
N77-370 0-3980	30	100	CP-QPSK	M	Outer_Full	NV	-20	6.800000	0.001771	PASS
N77-370 0-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	9.200000	0.002396	PASS
N77-370 0-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	5.300000	0.001380	PASS
N77-370 0-3980	30	100	CP-QPSK	M	Outer_Full	NV	10	3.500000	0.000911	PASS
N77-370 0-3980	30	100	CP-QPSK	M	Outer_Full	NV	20	15.800000	0.004115	PASS
N77-370 0-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	12.200000	0.003177	PASS
N77-370 0-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	6.200000	0.001615	PASS
N77-370 0-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	13.700000	0.003568	PASS

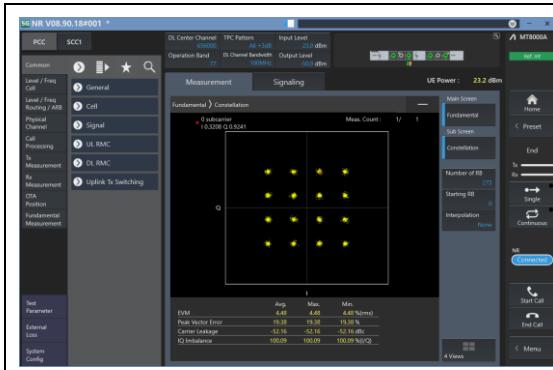
7.Modulation characteristics for SA

Test Result

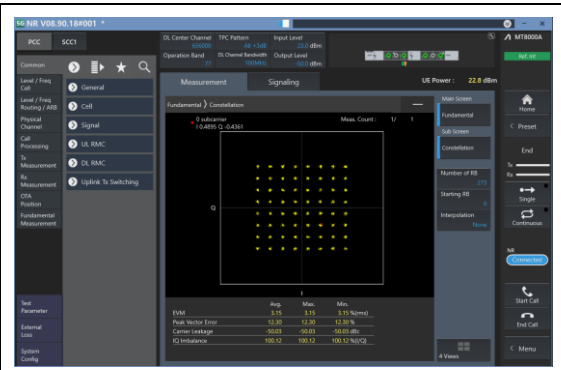
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	see graph	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	see graph	PASS
N77-3700-3980	30	100	DFT-16QAM	M	Outer_Full	see graph	PASS
N77-3700-3980	30	100	DFT-64QAM	M	Outer_Full	see graph	PASS
N77-3700-3980	30	100	DFT-256QAM	M	Outer_Full	see graph	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	see graph	PASS
N77-3700-3980	30	100	CP-16QAM	M	Outer_Full	see graph	PASS
N77-3700-3980	30	100	CP-64QAM	M	Outer_Full	see graph	PASS
N77-3700-3980	30	100	CP-256QAM	M	Outer_Full	see graph	PASS

Test Graphs

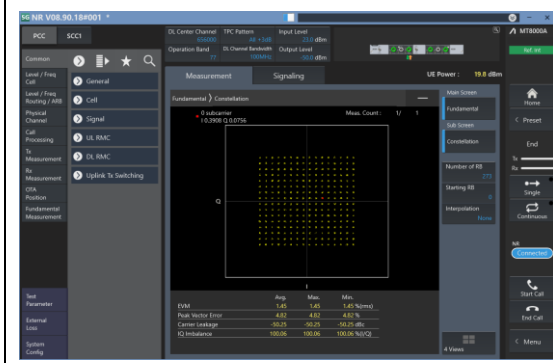
	
1-N77-3700-3980-PC2-30-100-M-1-DFT-PI2 BPSK-Outer_Full-270@0-Ant1-see graph-PASS	1-N77-3700-3980-PC2-30-100-M-2-DFT-QP SK-Outer_Full-270@0-Ant1-see graph-PASS
	
1-N77-3700-3980-PC2-30-100-M-3-DFT-16Q AM-Outer_Full-270@0-Ant1-see graph-PASS	1-N77-3700-3980-PC2-30-100-M-4-DFT-64Q AM-Outer_Full-270@0-Ant1-see graph-PASS
	
1-N77-3700-3980-PC2-30-100-M-5-DFT-256 QAM-Outer_Full-270@0-Ant1-see graph-PASS	1-N77-3700-3980-PC2-30-100-M-6-CP-QPS K-Outer_Full-273@0-Ant1-see graph-PASS



1-N77-3700-3980-PC2-30-100-M-7-CP-16Q
AM-Outer_Full-273@0-Ant1-see graph-PASS



1-N77-3700-3980-PC2-30-100-M-8-CP-64Q
AM-Outer_Full-273@0-Ant1-see graph-PASS



1-N77-3700-3980-PC2-30-100-M-9-CP-256Q
AM-Outer_Full-273@0-Ant1-see graph-PASS