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Appendix B.18

NR Band n30



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	EIRP (dBm)	LIMIT	Verdict
N30	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	22.58	22.8	23.98	PASS
N30	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	22.4	22.62	23.98	PASS
N30	15	5	DFT-PI2BPSK	L	Outer_Full	22.02	22.24	23.98	PASS
N30	15	5	DFT-QPSK	L	Inner_1RB_Left	22.46	22.68	23.98	PASS
N30	15	5	DFT-QPSK	L	Inner_1RB_Right	22.33	22.55	23.98	PASS
N30	15	5	DFT-QPSK	L	Outer_Full	21.47	21.69	23.98	PASS
N30	15	5	DFT-16QAM	L	Inner_1RB_Left	21.49	21.71	23.98	PASS
N30	15	5	DFT-16QAM	L	Inner_1RB_Right	21.44	21.66	23.98	PASS
N30	15	5	DFT-16QAM	L	Outer_Full	20.51	20.73	23.98	PASS
N30	15	5	DFT-64QAM	L	Inner_1RB_Left	20.24	20.46	23.98	PASS
N30	15	5	DFT-64QAM	L	Inner_1RB_Right	20.11	20.33	23.98	PASS
N30	15	5	DFT-64QAM	L	Outer_Full	19.99	20.21	23.98	PASS
N30	15	5	DFT-256QAM	L	Inner_1RB_Left	17.54	17.76	23.98	PASS
N30	15	5	DFT-256QAM	L	Inner_1RB_Right	17.45	17.67	23.98	PASS
N30	15	5	DFT-256QAM	L	Outer_Full	18	18.22	23.98	PASS
N30	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	22.53	22.75	23.98	PASS
N30	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	22.41	22.63	23.98	PASS
N30	15	5	DFT-PI2BPSK	M	Outer_Full	21.97	22.19	23.98	PASS
N30	15	5	DFT-QPSK	M	Inner_1RB_Left	22.41	22.63	23.98	PASS
N30	15	5	DFT-QPSK	M	Inner_1RB_Right	22.36	22.58	23.98	PASS
N30	15	5	DFT-QPSK	M	Outer_Full	21.45	21.67	23.98	PASS
N30	15	5	DFT-16QAM	M	Inner_1RB_Left	21.46	21.68	23.98	PASS
N30	15	5	DFT-16QAM	M	Inner_1RB_Right	21.42	21.64	23.98	PASS
N30	15	5	DFT-16QAM	M	Outer_Full	20.45	20.67	23.98	PASS
N30	15	5	DFT-64QAM	M	Inner_1RB_Left	20.12	20.34	23.98	PASS
N30	15	5	DFT-64QAM	M	Inner_1RB_Right	20.12	20.34	23.98	PASS
N30	15	5	DFT-64QAM	M	Outer_Full	19.96	20.18	23.98	PASS
N30	15	5	DFT-256QAM	M	Inner_1RB_Left	17.47	17.69	23.98	PASS
N30	15	5	DFT-256QAM	M	Inner_1RB_Right	17.42	17.64	23.98	PASS
N30	15	5	DFT-256QAM	M	Outer_Full	17.92	18.14	23.98	PASS
N30	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	22.5	22.72	23.98	PASS
N30	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	22.45	22.67	23.98	PASS



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N30	15	5	DFT-PI2BPSK	H	Outer_Full	22.01	22.23	23.98	PASS
N30	15	5	DFT-QPSK	H	Inner_1RB_Left	22.39	22.61	23.98	PASS
N30	15	5	DFT-QPSK	H	Inner_1RB_Right	22.33	22.55	23.98	PASS
N30	15	5	DFT-QPSK	H	Outer_Full	21.46	21.68	23.98	PASS
N30	15	5	DFT-16QAM	H	Inner_1RB_Left	21.5	21.72	23.98	PASS
N30	15	5	DFT-16QAM	H	Inner_1RB_Right	21.38	21.6	23.98	PASS
N30	15	5	DFT-16QAM	H	Outer_Full	20.5	20.72	23.98	PASS
N30	15	5	DFT-64QAM	H	Inner_1RB_Left	20.17	20.39	23.98	PASS
N30	15	5	DFT-64QAM	H	Inner_1RB_Right	20.06	20.28	23.98	PASS
N30	15	5	DFT-64QAM	H	Outer_Full	19.99	20.21	23.98	PASS
N30	15	5	DFT-256QAM	H	Inner_1RB_Left	17.49	17.71	23.98	PASS
N30	15	5	DFT-256QAM	H	Inner_1RB_Right	17.44	17.66	23.98	PASS
N30	15	5	DFT-256QAM	H	Outer_Full	17.96	18.18	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	22.67	22.89	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	22.42	22.64	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	21.99	22.21	23.98	PASS
N30	15	10	DFT-QPSK	M	Inner_1RB_Left	22.55	22.77	23.98	PASS
N30	15	10	DFT-QPSK	M	Inner_1RB_Right	22.38	22.6	23.98	PASS
N30	15	10	DFT-QPSK	M	Outer_Full	21.44	21.66	23.98	PASS
N30	15	10	DFT-16QAM	M	Inner_1RB_Left	21.56	21.78	23.98	PASS
N30	15	10	DFT-16QAM	M	Inner_1RB_Right	21.41	21.63	23.98	PASS
N30	15	10	DFT-16QAM	M	Outer_Full	20.44	20.66	23.98	PASS
N30	15	10	DFT-64QAM	M	Inner_1RB_Left	20.31	20.53	23.98	PASS
N30	15	10	DFT-64QAM	M	Inner_1RB_Right	20.18	20.4	23.98	PASS
N30	15	10	DFT-64QAM	M	Outer_Full	19.98	20.2	23.98	PASS
N30	15	10	DFT-256QAM	M	Inner_1RB_Left	17.53	17.75	23.98	PASS
N30	15	10	DFT-256QAM	M	Inner_1RB_Right	17.37	17.59	23.98	PASS
N30	15	10	DFT-256QAM	M	Outer_Full	17.94	18.16	23.98	PASS



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Power Spectral Density

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	EIRP	Limit	Verdict
N30	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	22.37	23.57	23.98	PASS
N30	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	22.34	23.54	23.98	PASS
N30	15	5	DFT-PI2BPSK	L	Outer_Full	21.13	22.33	23.98	PASS
N30	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	22.34	23.54	23.98	PASS
N30	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	22.35	23.55	23.98	PASS
N30	15	5	DFT-PI2BPSK	M	Outer_Full	21.14	22.34	23.98	PASS
N30	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	22.31	23.51	23.98	PASS
N30	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	22.33	23.53	23.98	PASS
N30	15	5	DFT-PI2BPSK	H	Outer_Full	21.13	22.33	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	22.33	23.53	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	22.28	23.48	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	19.32	20.52	23.98	PASS



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Test Graphs

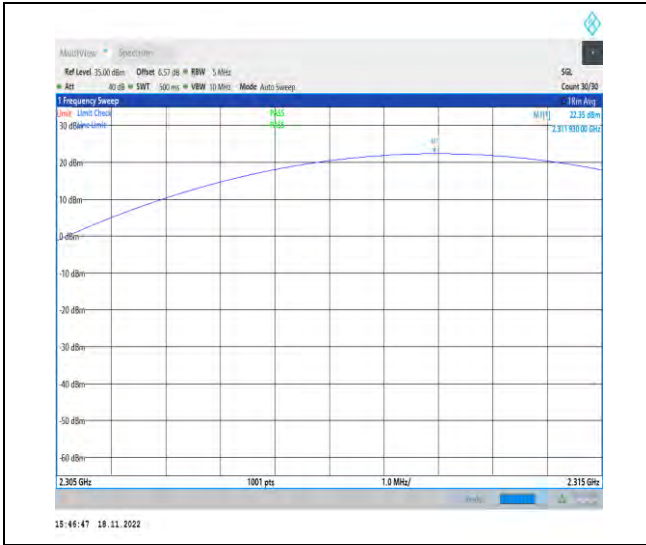
<p>1-N30-PC3-15-5-L-1-DFT-PI2BPSK-Inner_1RB_Left -1@1-2302.5-2312.5-Ant1-2305.51-22.37-99-PASS</p>	<p>1-N30-PC3-15-5-L-2-DFT-PI2BPSK-Inner_1RB_Right t-1@23-2302.5-2312.5-Ant1-2309.55-22.34-99-PASS</p>
<p>1-N30-PC3-15-5-L-3-DFT-PI2BPSK-Outer_Full-25@ 0-2302.5-2312.5-Ant1-2307.51-21.13-99-PASS</p>	<p>1-N30-PC3-15-5-M-1-DFT-PI2BPSK-Inner_1RB_Left- 1@1-2305-2315-Ant1-2308.03-22.34-99-PASS</p>



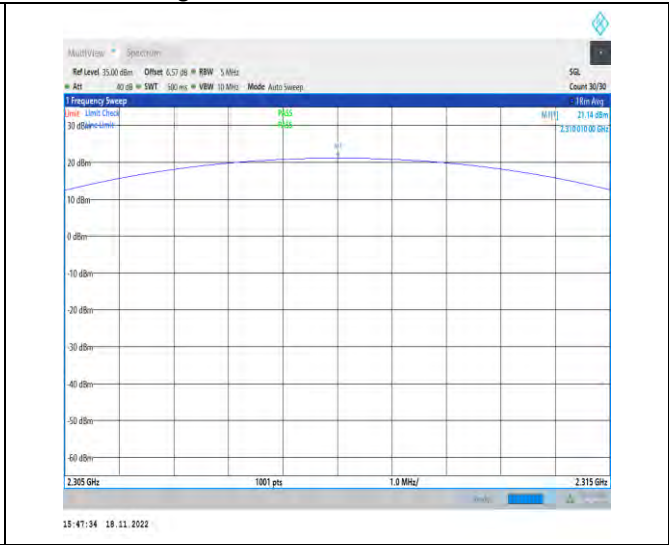
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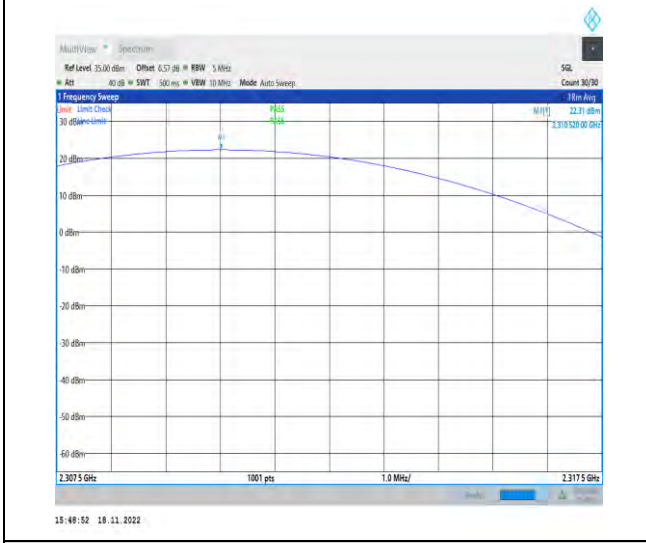
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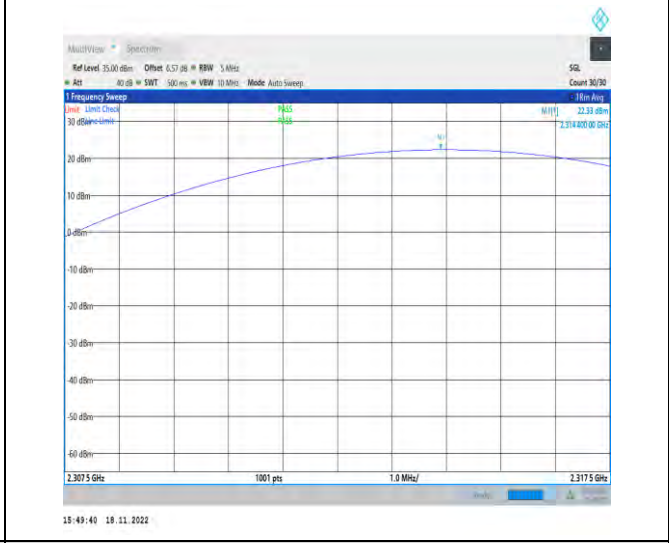
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1-N30-PC3-15-5-M-3-DFT-PI2BPSK-Outer_Full-25@ 0-2305-2315-Ant1-2310.01-21.14-99-PASS



1-N30-PC3-15-5-H-1-DFT-PI2BPSK-Inner_1RB_Lef t-1@1-2307.5-2317.5-Ant1-2310.52-22.31-99-PASS

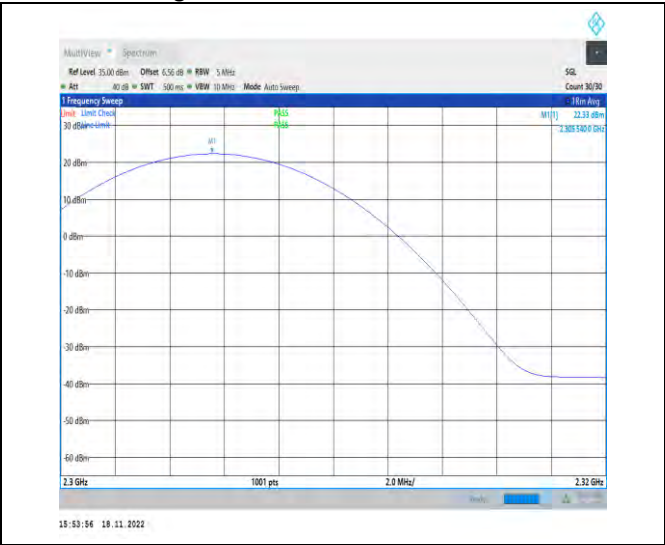
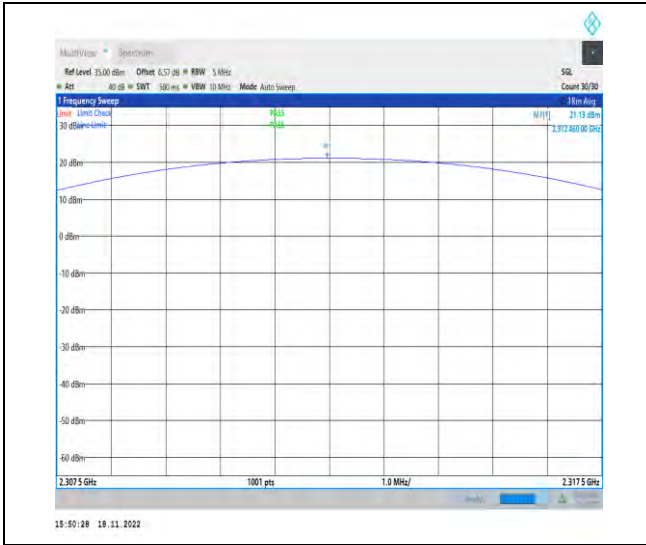


1-N30-PC3-15-5-H-2-DFT-PI2BPSK-Inner_1RB_Righ t-1@23-2307.5-2317.5-Ant1-2314.40-22.33-99-PASS



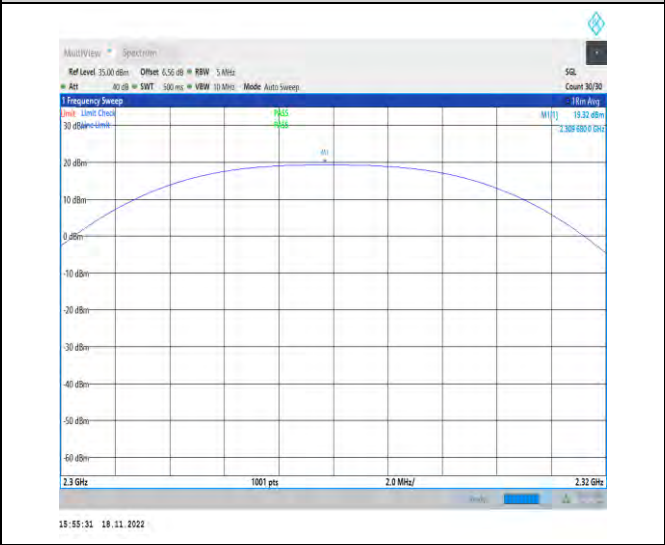
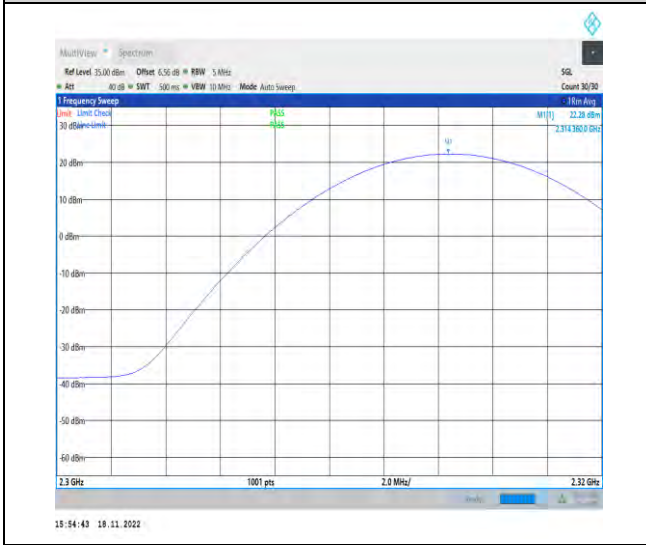
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1-N30-PC3-15-5-H-3-DFT-PI2BPSK-Outter_Full-25 @0-2307.5-2317.5-Ant1-2312.46-21.13-99-PASS

1-N30-PC3-15-10-M-1-DFT-PI2BPSK-Inner_1RB_Lef t-1@1-2300-2320-Ant1-2305.54-22.33-99-PASS



1-N30-PC3-15-10-M-2-DFT-PI2BPSK-Inner_1RB_Ri ght-1@50-2300-2320-Ant1-2314.36-22.28-99-PASS

1-N30-PC3-15-10-M-3-DFT-PI2BPSK-Outter_Full-50 @0-2300-2320-Ant1-2309.68-19.32-99-PASS



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Peak-to-Average Ratio for SA

Peak-to-Average Ratio(PAPR)

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	DutyCycle	Factor	Result	Limit	Verdict
N30	15	10	DFT-256QAM	M	Outer_Full	100%	0.00	8.59	≤13	PASS
N30	15	10	CP-256QAM	M	Outer_Full	100%	0.00	9.49	≤13	PASS



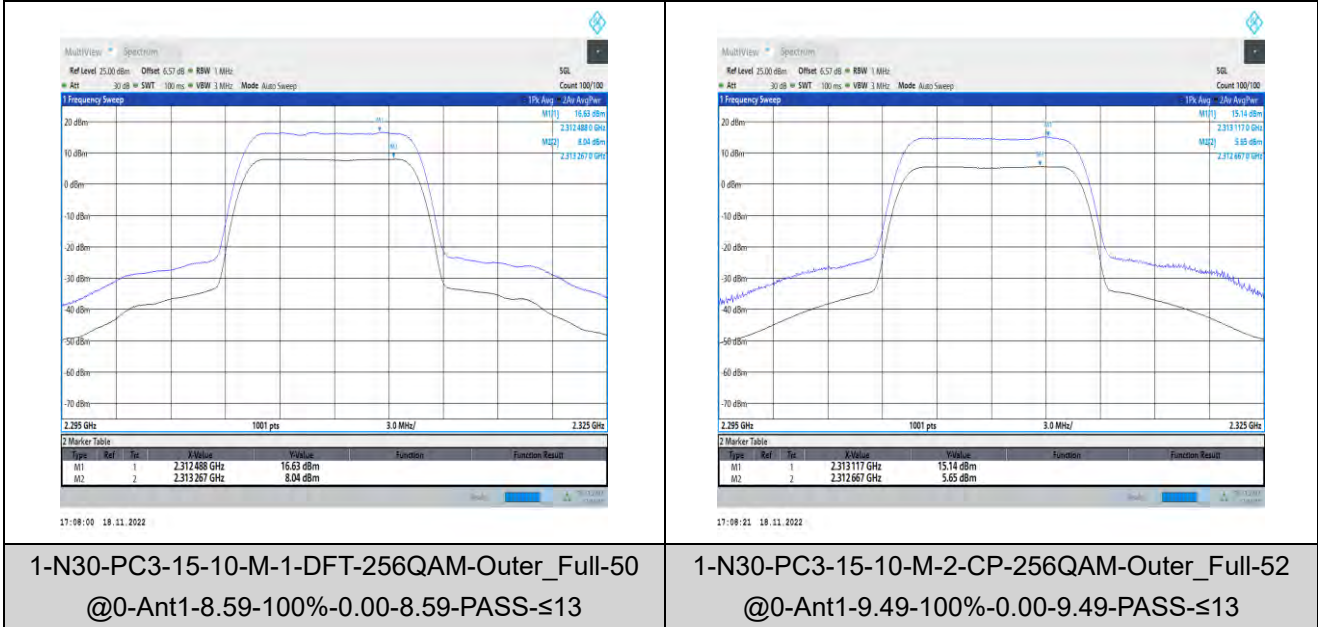
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Test Graphs



1-N30-PC3-15-10-M-1-DFT-256QAM-Outer_Full-50
 @0-Ant1-8.59-100%-0.00-8.59-PASS-≤13

1-N30-PC3-15-10-M-2-CP-256QAM-Outer_Full-52
 @0-Ant1-9.49-100%-0.00-9.49-PASS-≤13



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Modulation characteristics for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N30	15	10	DFT-PI2BPSK	M	Outer_Full	see graph	PASS
N30	15	10	DFT-QPSK	M	Outer_Full	see graph	PASS
N30	15	10	DFT-16QAM	M	Outer_Full	see graph	PASS
N30	15	10	DFT-64QAM	M	Outer_Full	see graph	PASS
N30	15	10	DFT-256QAM	M	Outer_Full	see graph	PASS
N30	15	10	CP-QPSK	M	Outer_Full	see graph	PASS
N30	15	10	CP-16QAM	M	Outer_Full	see graph	PASS
N30	15	10	CP-64QAM	M	Outer_Full	see graph	PASS
N30	15	10	CP-256QAM	M	Outer_Full	see graph	PASS



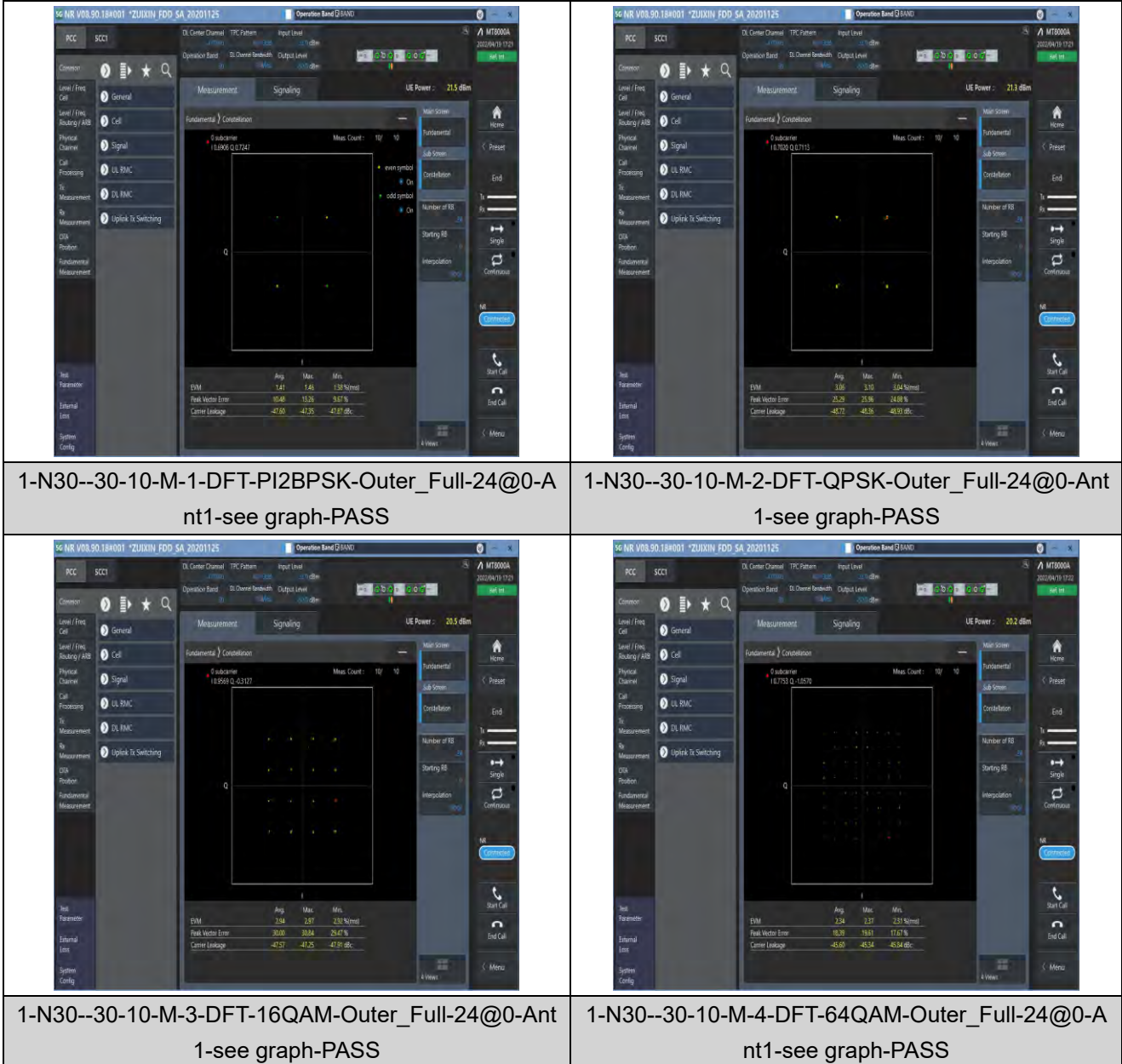
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Test Graphs

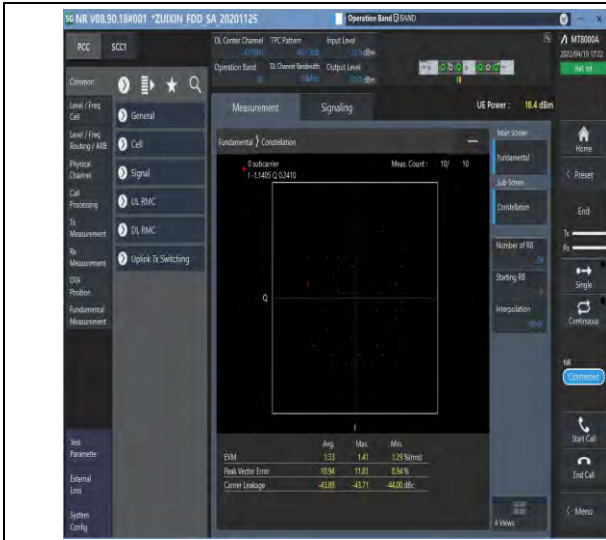


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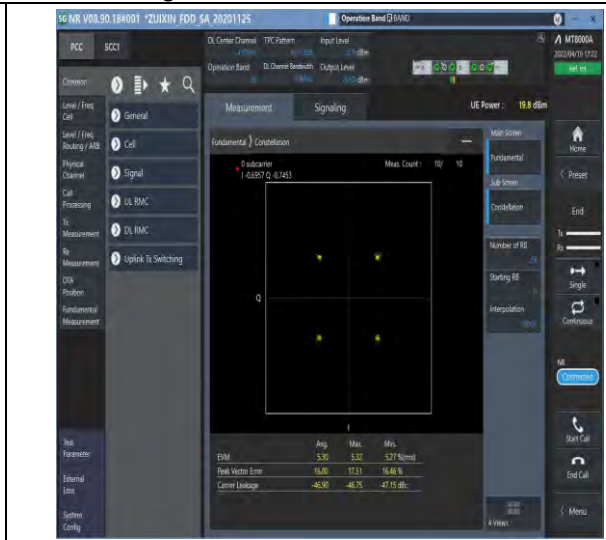
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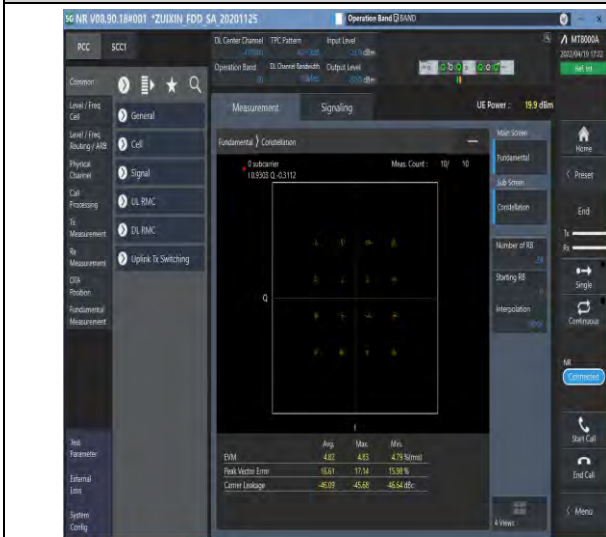
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1-N30--30-10-M-5-DFT-256QAM-Outer_Full-24@0-A
nt1-see graph-PASS



1-N30--30-10-M-6-CP-QPSK-Outer_Full-24@0-Ant
1-see graph-PASS



1-N30--30-10-M-7-CP-16QAM-Outer_Full-24@0-Ant1
-see graph-PASS



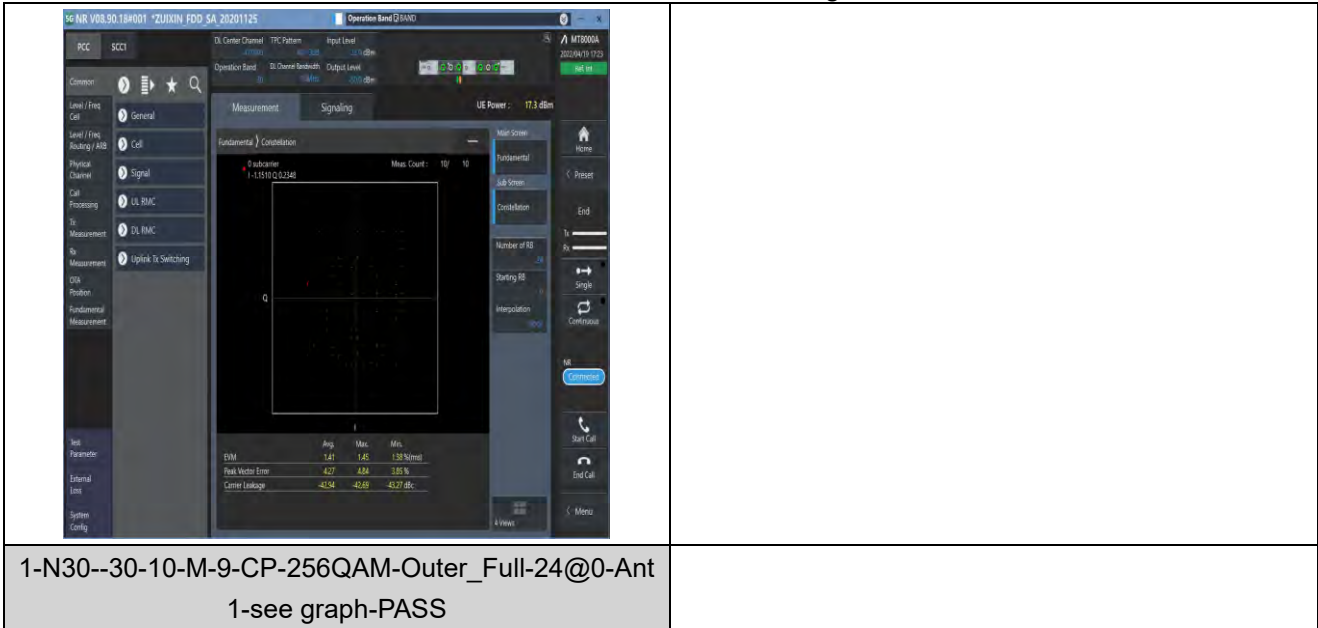
1-N30--30-10-M-8-CP-64QAM-Outer_Full-24@0-Ant1
-see graph-PASS



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Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N30	15	5	DFT-QPSK	L	Outer_Full	4.47	4.950	PASS
N30	15	5	DFT-PI2BPSK	L	Outer_Full	4.485	5.090	PASS
N30	15	5	DFT-16QAM	L	Outer_Full	4.474	4.990	PASS
N30	15	5	DFT-64QAM	L	Outer_Full	4.477	5.050	PASS
N30	15	5	DFT-256QAM	L	Outer_Full	4.487	5.090	PASS
N30	15	5	CP-QPSK	L	Outer_Full	4.489	5.160	PASS
N30	15	5	CP-16QAM	L	Outer_Full	4.517	5.240	PASS
N30	15	5	CP-64QAM	L	Outer_Full	4.488	5.180	PASS
N30	15	5	CP-256QAM	L	Outer_Full	4.486	5.230	PASS
N30	15	5	DFT-QPSK	M	Outer_Full	4.479	5.070	PASS
N30	15	5	DFT-PI2BPSK	M	Outer_Full	4.478	5.170	PASS
N30	15	5	DFT-16QAM	M	Outer_Full	4.488	5.110	PASS
N30	15	5	DFT-64QAM	M	Outer_Full	4.475	4.930	PASS
N30	15	5	DFT-256QAM	M	Outer_Full	4.481	5.030	PASS
N30	15	5	CP-QPSK	M	Outer_Full	4.492	5.080	PASS
N30	15	5	CP-16QAM	M	Outer_Full	4.502	5.210	PASS
N30	15	5	CP-64QAM	M	Outer_Full	4.492	5.150	PASS
N30	15	5	CP-256QAM	M	Outer_Full	4.488	5.220	PASS
N30	15	5	DFT-QPSK	H	Outer_Full	4.477	5.000	PASS
N30	15	5	DFT-PI2BPSK	H	Outer_Full	4.477	5.060	PASS
N30	15	5	DFT-16QAM	H	Outer_Full	4.491	5.090	PASS
N30	15	5	DFT-64QAM	H	Outer_Full	4.475	5.030	PASS
N30	15	5	DFT-256QAM	H	Outer_Full	4.48	5.100	PASS
N30	15	5	CP-QPSK	H	Outer_Full	4.481	5.170	PASS
N30	15	5	CP-16QAM	H	Outer_Full	4.515	5.210	PASS
N30	15	5	CP-64QAM	H	Outer_Full	4.497	5.150	PASS
N30	15	5	CP-256QAM	H	Outer_Full	4.483	5.230	PASS
N30	15	10	DFT-QPSK	M	Outer_Full	8.941	9.760	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	8.916	9.720	PASS
N30	15	10	DFT-16QAM	M	Outer_Full	8.954	9.700	PASS
N30	15	10	DFT-64QAM	M	Outer_Full	8.944	9.620	PASS
N30	15	10	DFT-256QAM	M	Outer_Full	8.945	9.640	PASS



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N30	15	10	CP-QPSK	M	Outer_Full	9.3	10.280	PASS
N30	15	10	CP-16QAM	M	Outer_Full	9.292	10.120	PASS
N30	15	10	CP-64QAM	M	Outer_Full	9.291	10.200	PASS
N30	15	10	CP-256QAM	M	Outer_Full	9.314	10.220	PASS

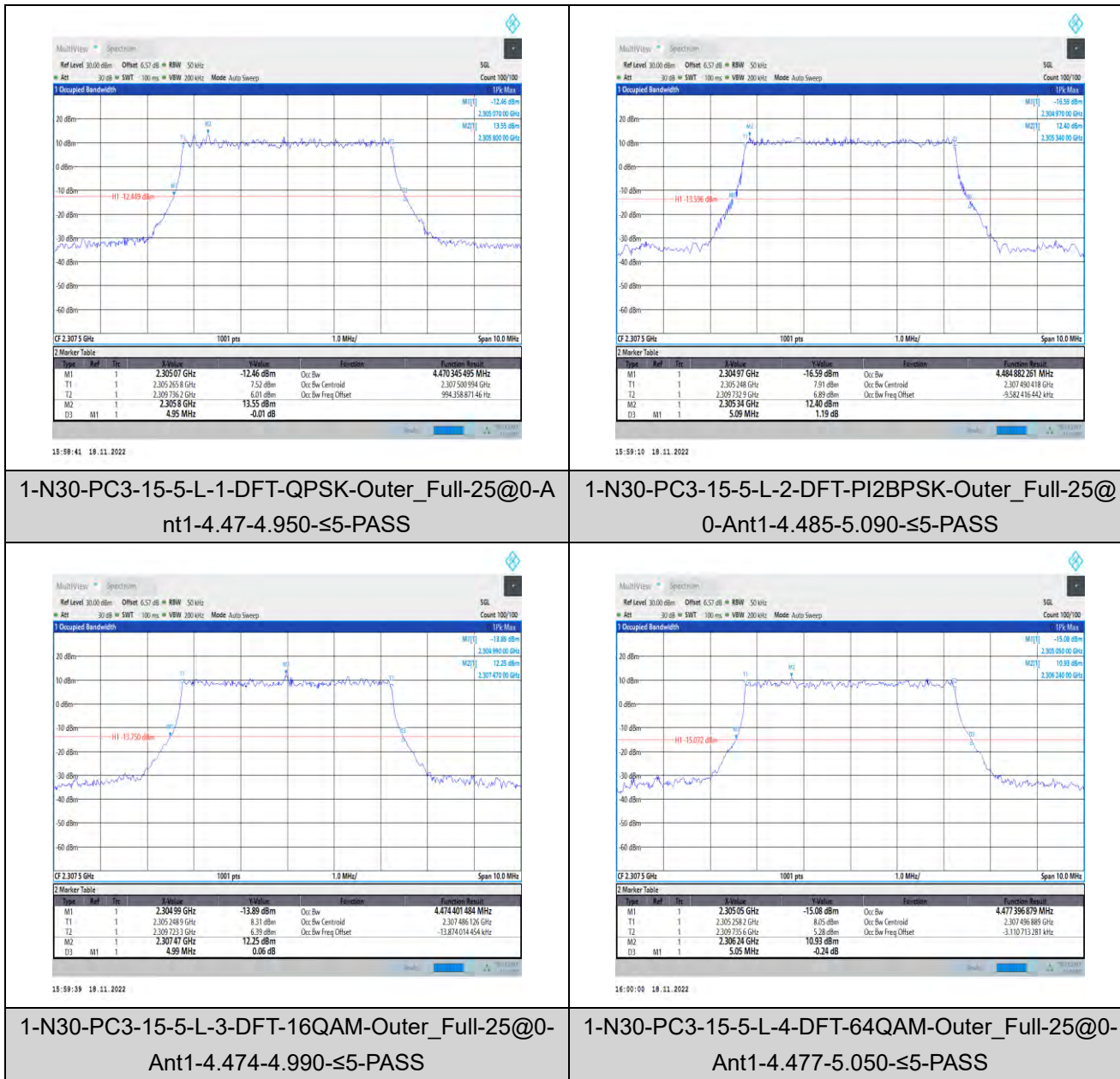


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Test Graphs



1-N30-PC3-15-5-L-1-DFT-QPSK-Outer_Full-25@0-A
 nt1-4.47-4.950-≤5-PASS

1-N30-PC3-15-5-L-2-DFT-PI2BPSK-Outer_Full-25@
 0-Ant1-4.485-5.090-≤5-PASS

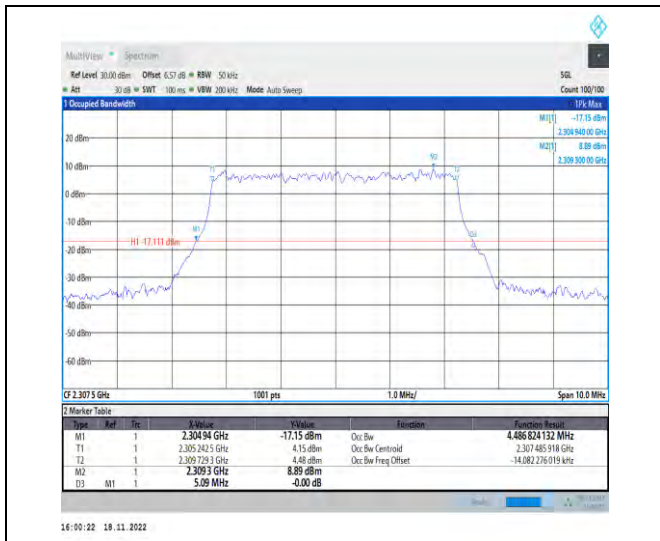
1-N30-PC3-15-5-L-3-DFT-16QAM-Outer_Full-25@0-
 Ant1-4.474-4.990-≤5-PASS

1-N30-PC3-15-5-L-4-DFT-64QAM-Outer_Full-25@0-
 Ant1-4.477-5.050-≤5-PASS



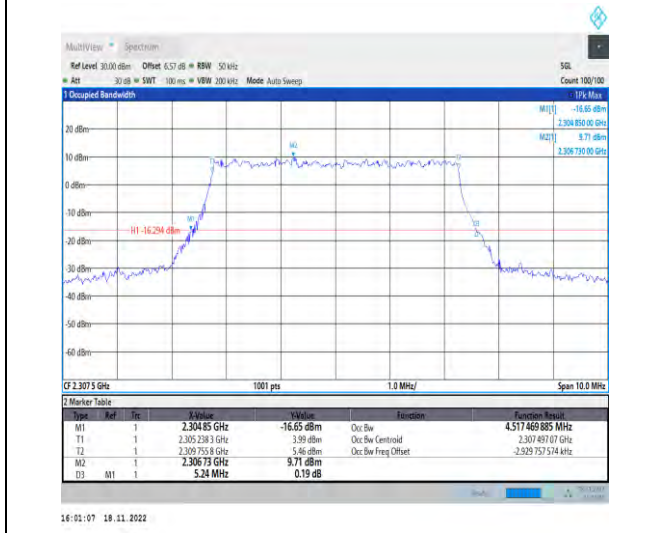
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1-N30-PC3-15-5-L-5-DFT-256QAM-Outer_Full-25@0-Ant1-4.487-5.090-≤5-PASS

1-N30-PC3-15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant1-4.489-5.160-≤5-PASS



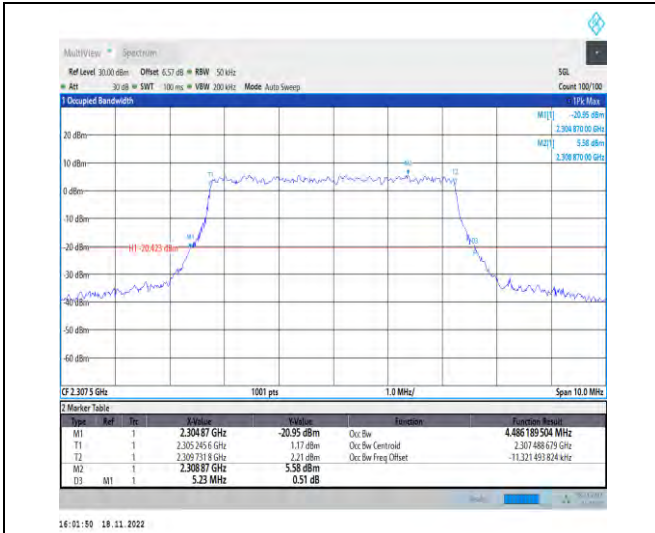
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1-N30-PC3-15-5-L-8-CP-64QAM-Outer_Full-25@0-Ant1-4.488-5.180-≤5-PASS



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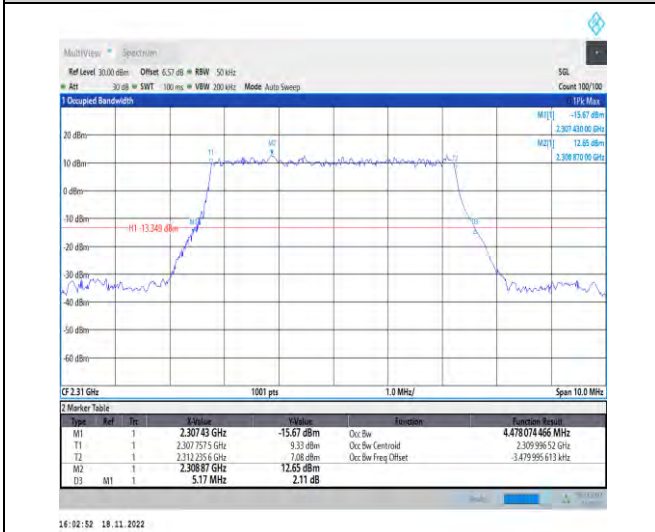
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1-N30-PC3-15-5-L-9-CP-256QAM-Outer_Full-25@0-Ant1-4.486-5.230-≤5-PASS



1-N30-PC3-15-5-M-1-DFT-QPSK-Outer_Full-25@0-Ant1-4.479-5.070-≤5-PASS



1-N30-PC3-15-5-M-2-DFT-PI2BPSK-Outer_Full-25@0-Ant1-4.478-5.170-≤5-PASS



1-N30-PC3-15-5-M-3-DFT-16QAM-Outer_Full-25@0-Ant1-4.488-5.110-≤5-PASS



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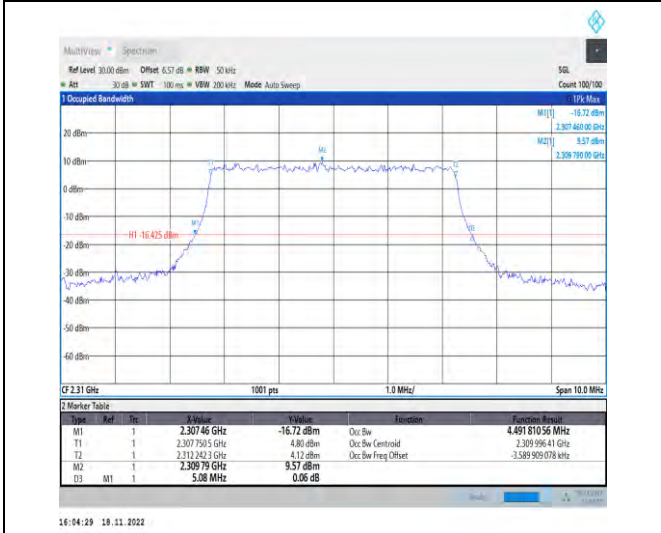
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1-N30-PC3-15-5-M-4-DFT-64QAM-Outer_Full-25@0-Ant1-4.475-4.930-≤5-PASS



1-N30-PC3-15-5-M-5-DFT-256QAM-Outer_Full-25@0-Ant1-4.481-5.030-≤5-PASS



1-N30-PC3-15-5-M-6-CP-QPSK-Outer_Full-25@0-Ant1-4.492-5.080-≤5-PASS

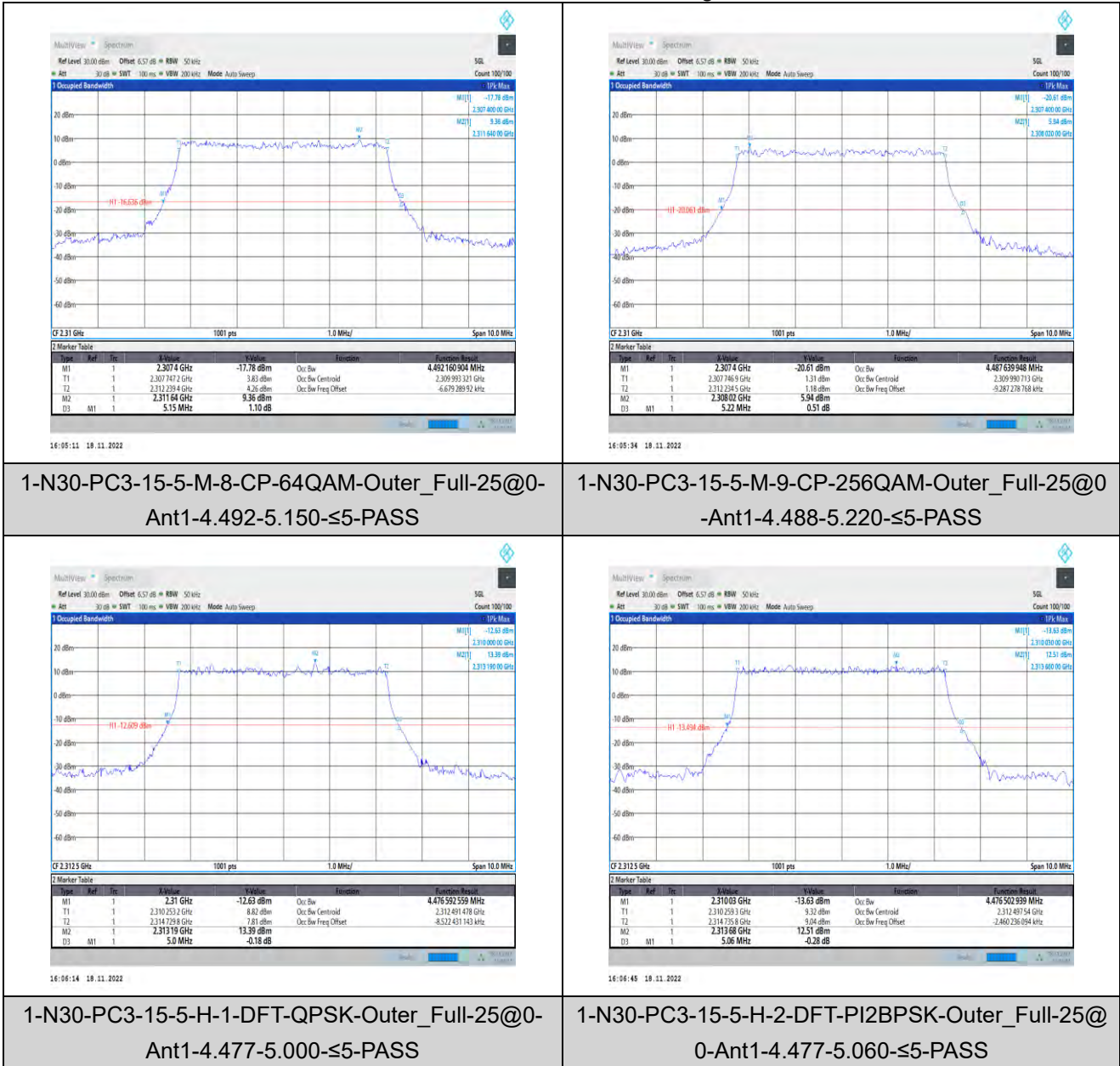


1-N30-PC3-15-5-M-7-CP-16QAM-Outer_Full-25@0-Ant1-4.502-5.210-≤5-PASS



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1-N30-PC3-15-5-M-8-CP-64QAM-Outer_Full-25@0-Ant1-4.492-5.150-≤5-PASS

1-N30-PC3-15-5-M-9-CP-256QAM-Outer_Full-25@0-Ant1-4.488-5.220-≤5-PASS

1-N30-PC3-15-5-H-1-DFT-QPSK-Outer_Full-25@0-Ant1-4.477-5.000-≤5-PASS

1-N30-PC3-15-5-H-2-DFT-PI2BPSK-Outer_Full-25@0-Ant1-4.477-5.060-≤5-PASS

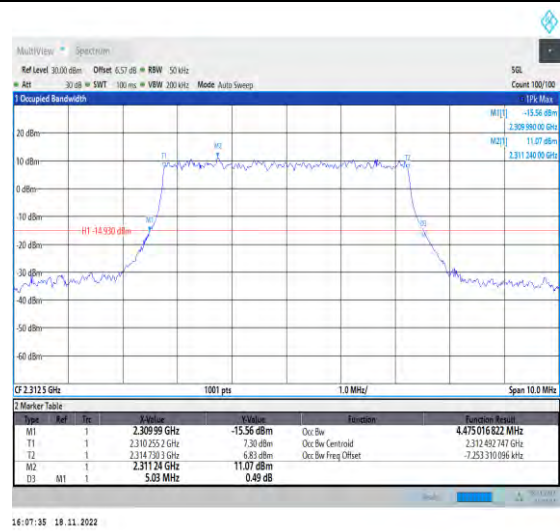


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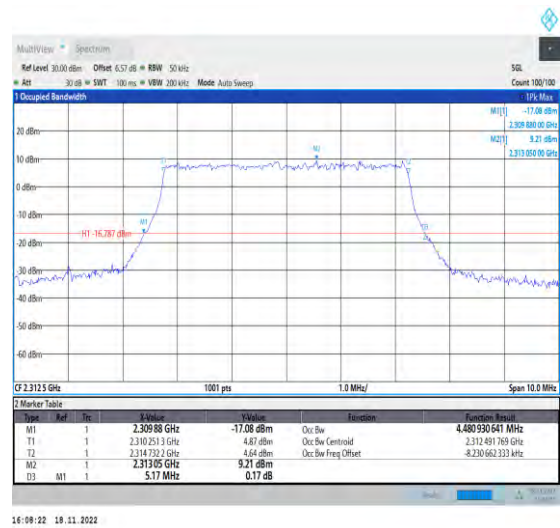
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1-N30-PC3-15-5-H-4-DFT-64QAM-Outer_Full-25@0-Ant1-4.475-5.030-≤5-PASS



1-N30-PC3-15-5-H-5-DFT-256QAM-Outer_Full-25@0-Ant1-4.48-5.100-≤5-PASS

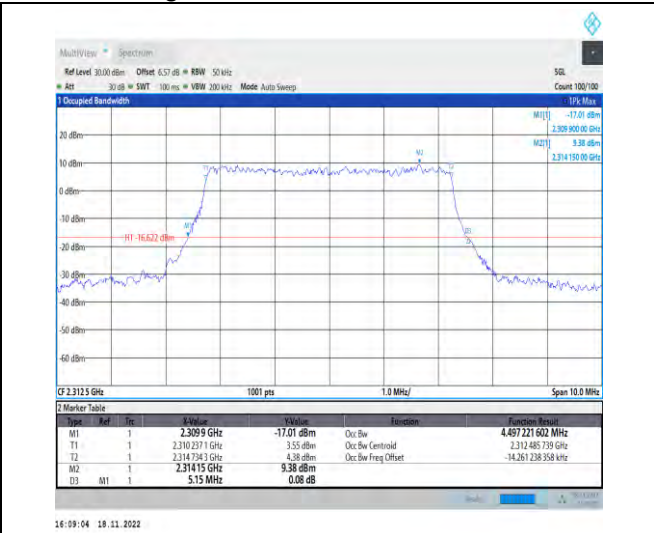


1-N30-PC3-15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant1-4.481-5.170-≤5-PASS



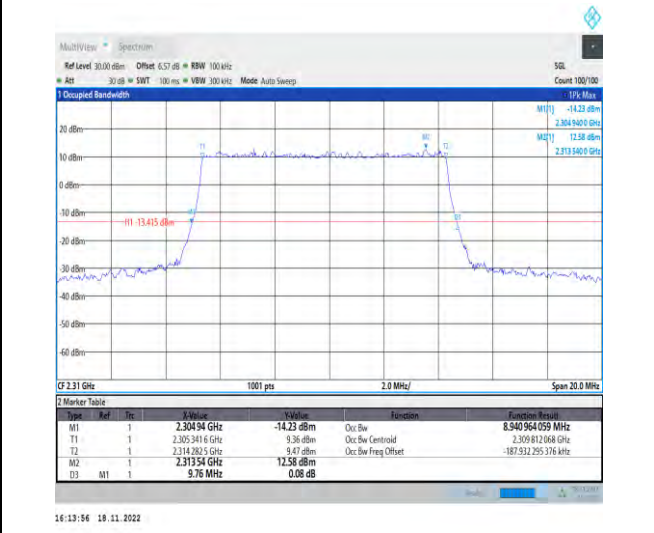
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1-N30-PC3-15-5-H-7-CP-16QAM-Outer_Full-25@0-Ant1-4.515-5.210-≤5-PASS

1-N30-PC3-15-5-H-8-CP-64QAM-Outer_Full-25@0-Ant1-4.497-5.150-≤5-PASS



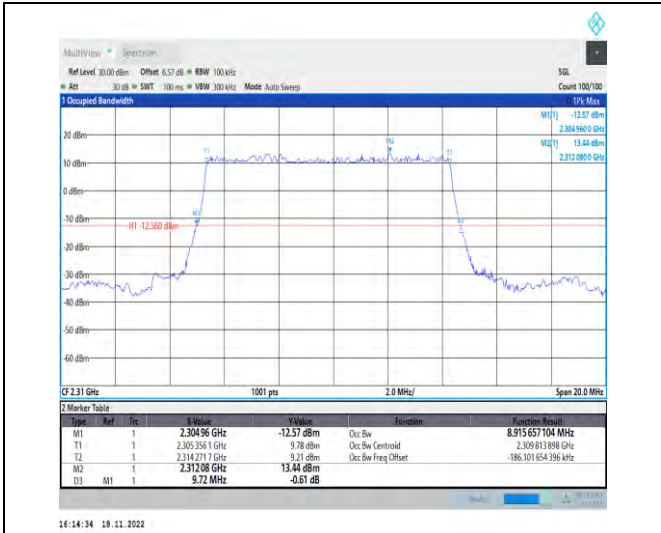
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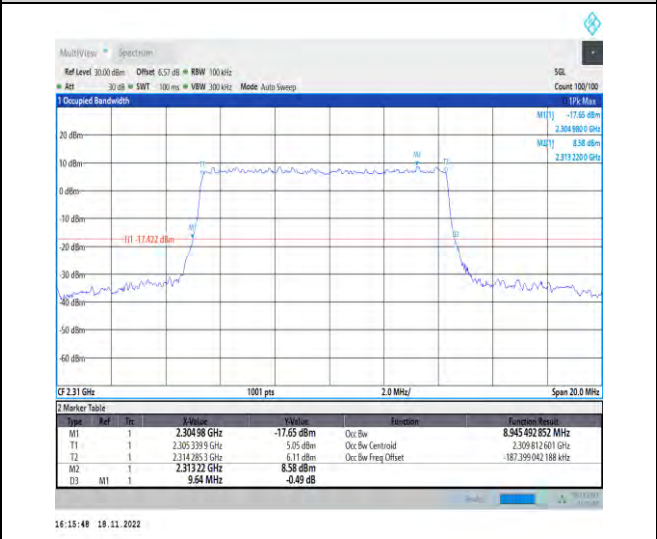
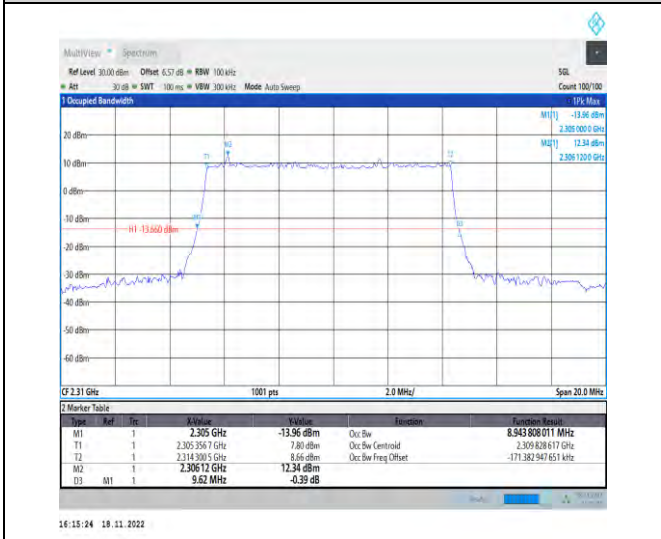
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1-N30-PC3-15-10-M-2-DFT-PI2BPSK-Outer_Full-50 @0-Ant1-8.916-9.720-≤10-PASS

1-N30-PC3-15-10-M-3-DFT-16QAM-Outer_Full-50 @0-Ant1-8.954-9.700-≤10-PASS



1-N30-PC3-15-10-M-4-DFT-64QAM-Outer_Full-50 @0-Ant1-8.944-9.620-≤10-PASS

1-N30-PC3-15-10-M-5-DFT-256QAM-Outer_Full-50 @0-Ant1-8.945-9.640-≤10-PASS



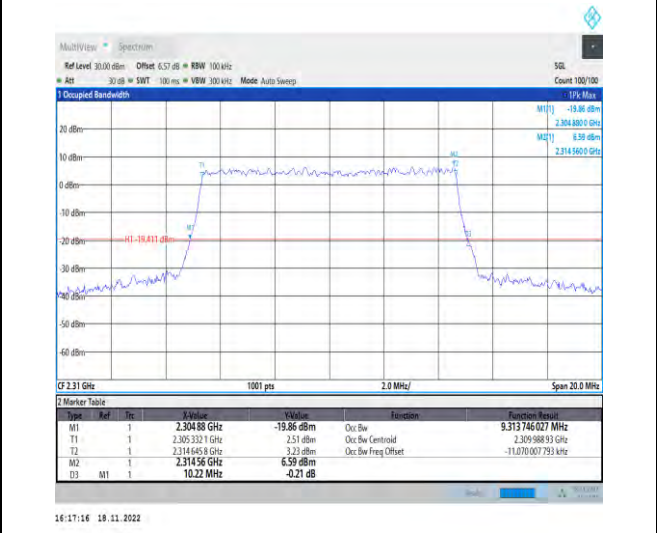
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1-N30-PC3-15-10-M-6-CP-QPSK-Outer_Full-52@0-Ant1-9.3-10.280-≤10-PASS

1-N30-PC3-15-10-M-7-CP-16QAM-Outer_Full-52@0-Ant1-9.292-10.120-≤10-PASS



1-N30-PC3-15-10-M-8-CP-64QAM-Outer_Full-52@0-Ant1-9.291-10.200-≤10-PASS

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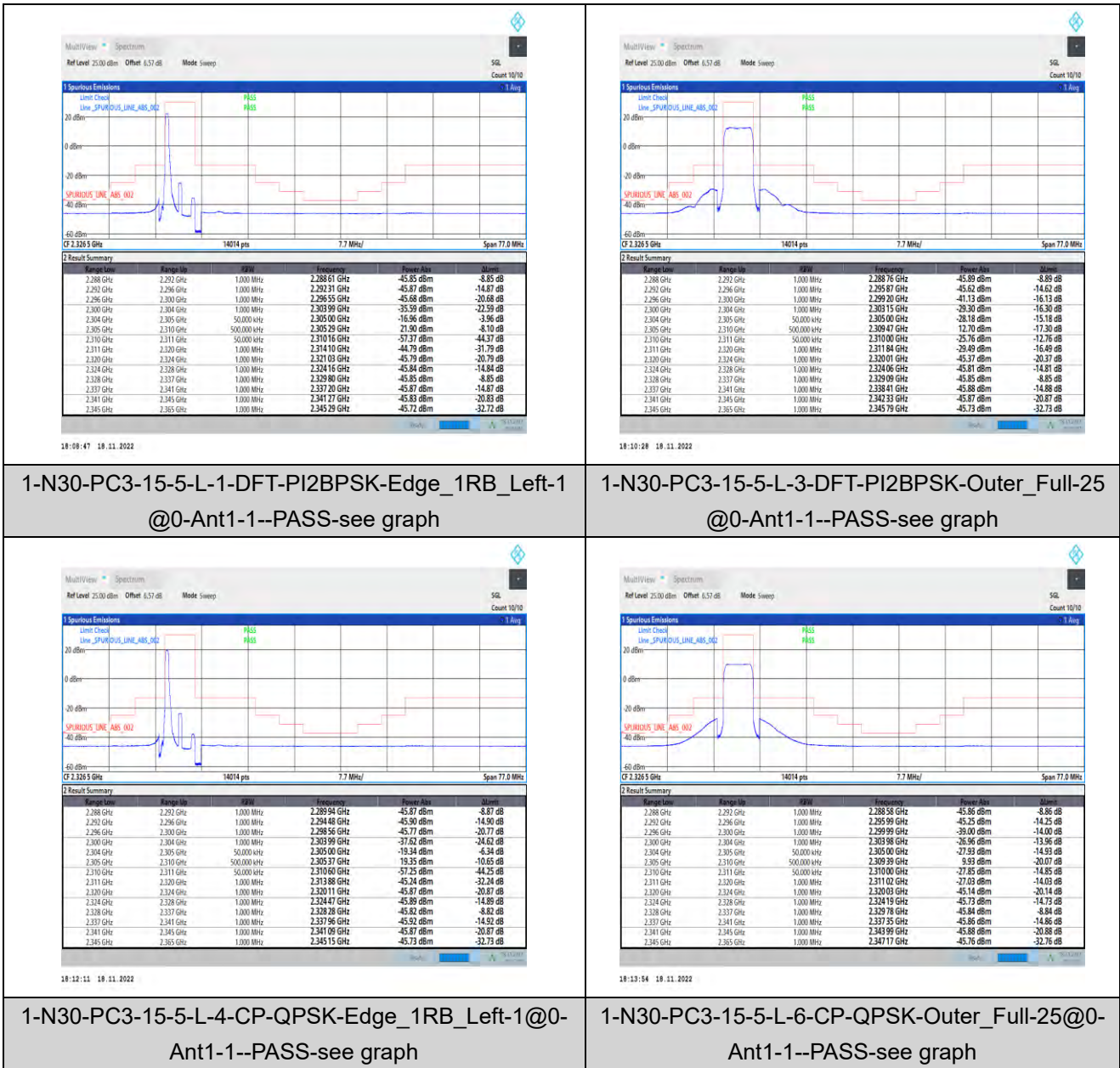


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Band Edge for SA

Test Graphs



1-N30-PC3-15-5-L-1-DFT-PI2BPSK-Edge_1RB_Left-1 @0-Ant1-1--PASS-see graph

1-N30-PC3-15-5-L-3-DFT-PI2BPSK-Outer_Full-25 @0-Ant1-1--PASS-see graph

1-N30-PC3-15-5-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

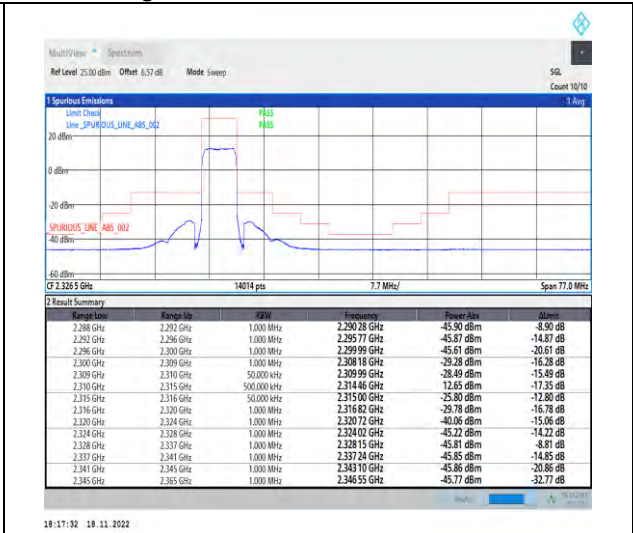
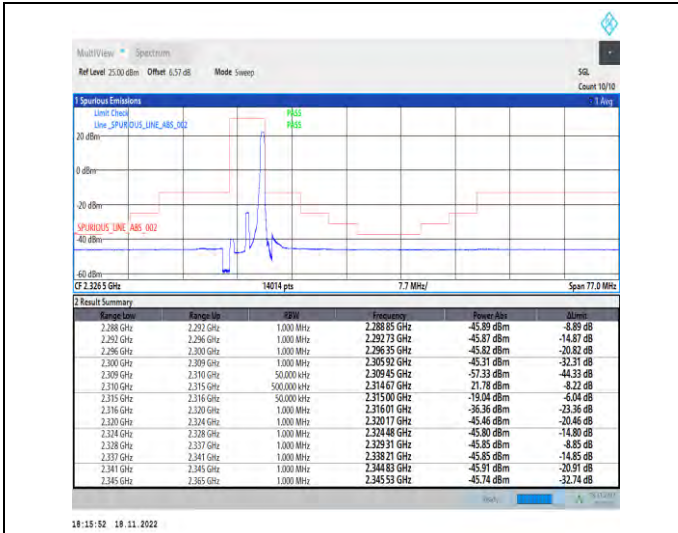
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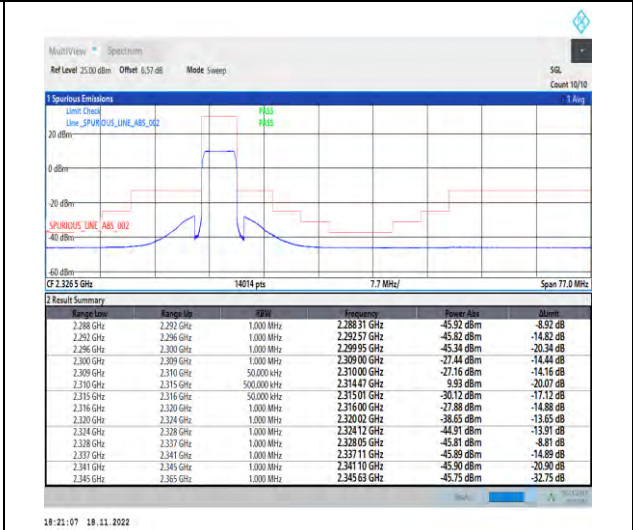
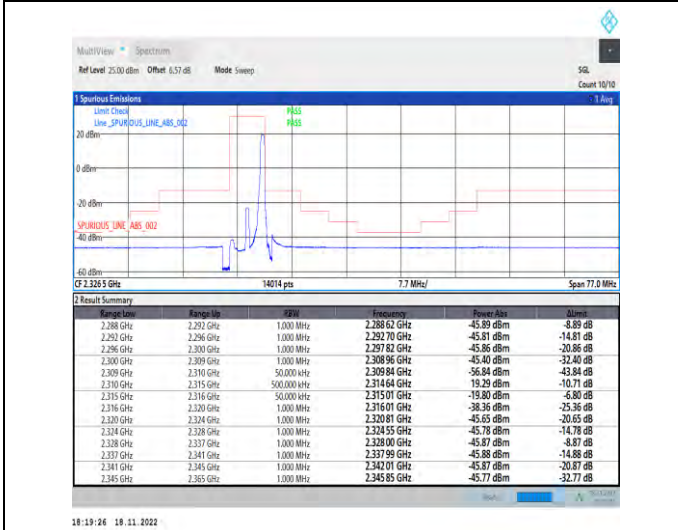
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1-N30-PC3-15-5-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@24-Ant1-1--PASS-see graph

1-N30-PC3-15-5-H-3-DFT-PI2BPSK-Outer_Full-25@0-Ant1-1--PASS-see graph



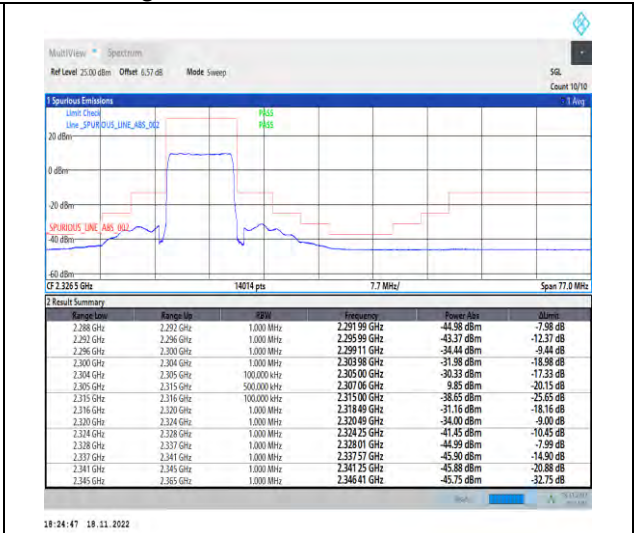
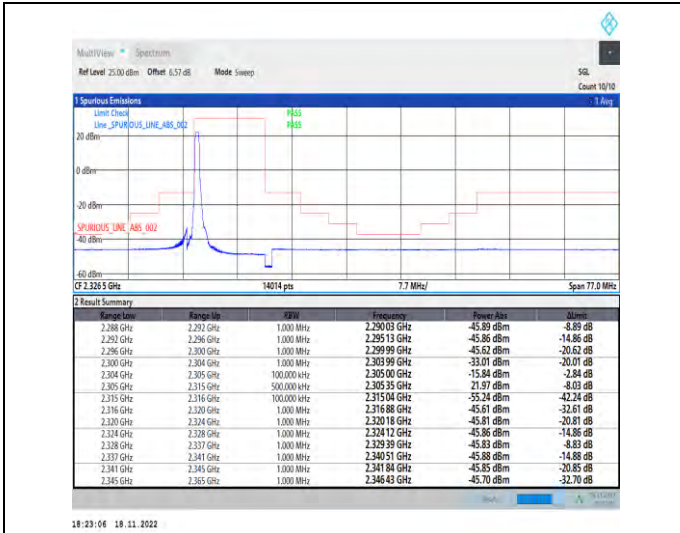
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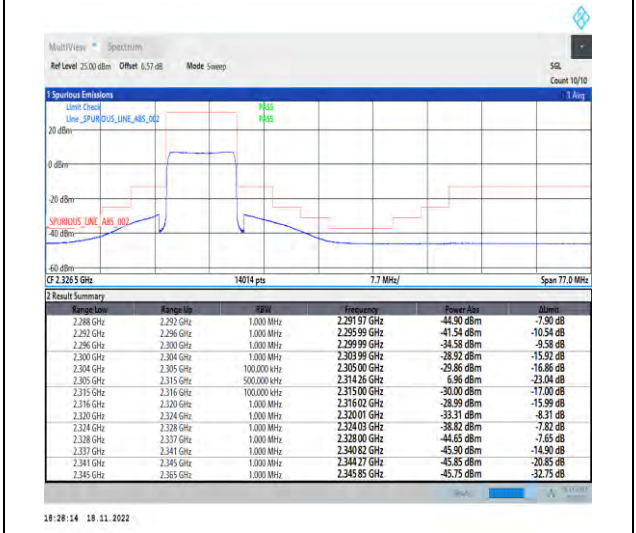
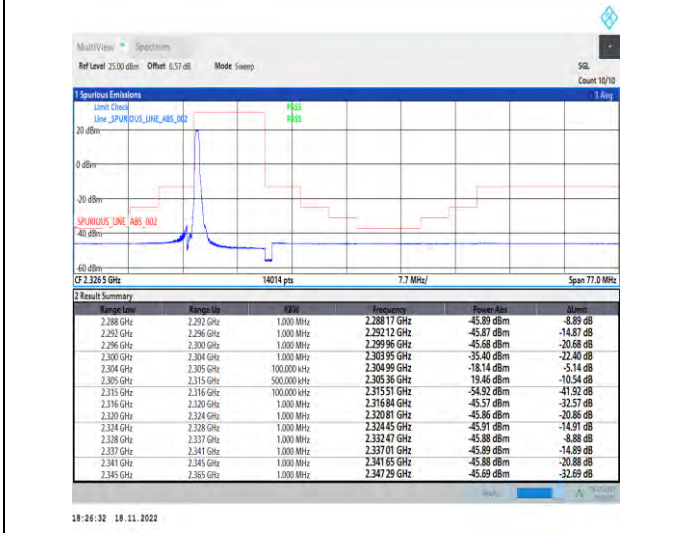
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1-N30-PC3-15-10-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N30-PC3-15-10-L-3-DFT-PI2BPSK-Outer_Full-50@0-Ant1-1--PASS-see graph



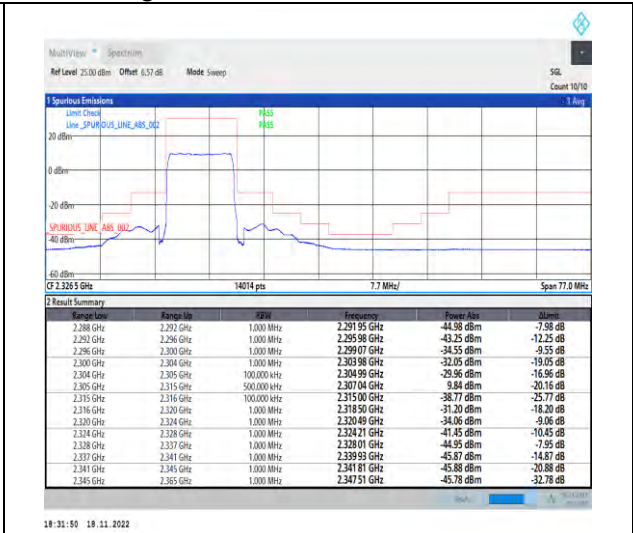
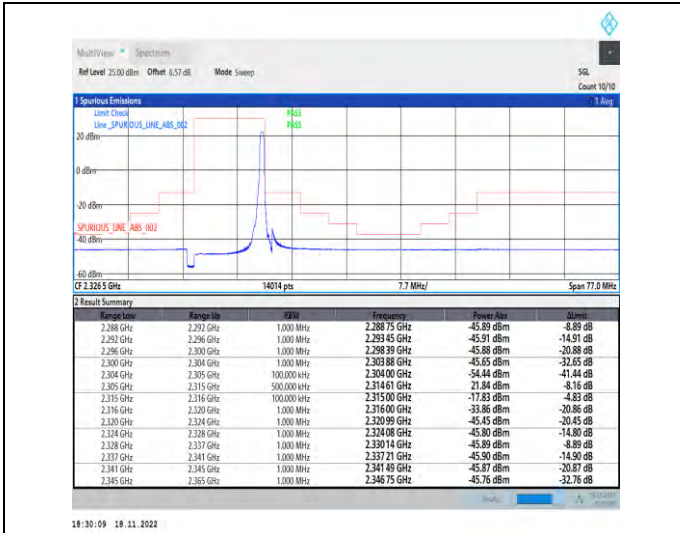
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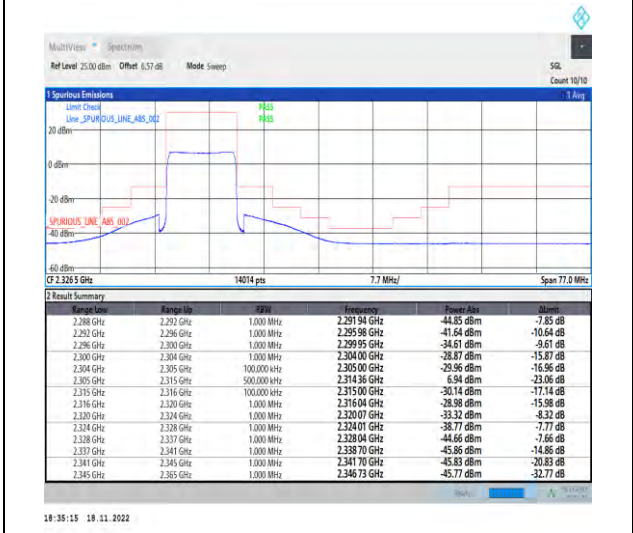
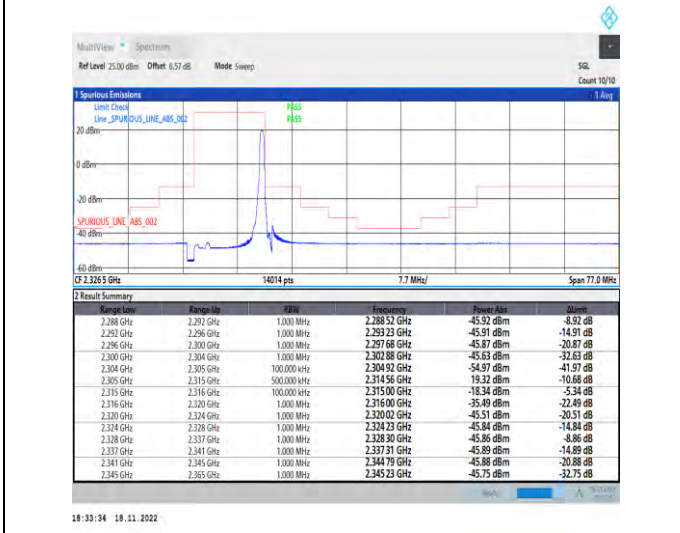
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1-N30-PC3-15-10-H-2-DFT-PI2BPSK-Edge_1RB_Right-t-1@51-Ant1-1--PASS-see graph

1-N30-PC3-15-10-H-3-DFT-PI2BPSK-Outer_Full-50@0-Ant1-1--PASS-see graph



1-N30-PC3-15-10-H-5-CP-QPSK-Edge_1RB_Right-1@51-Ant1-1--PASS-see graph

1-N30-PC3-15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant1-1--PASS-see graph

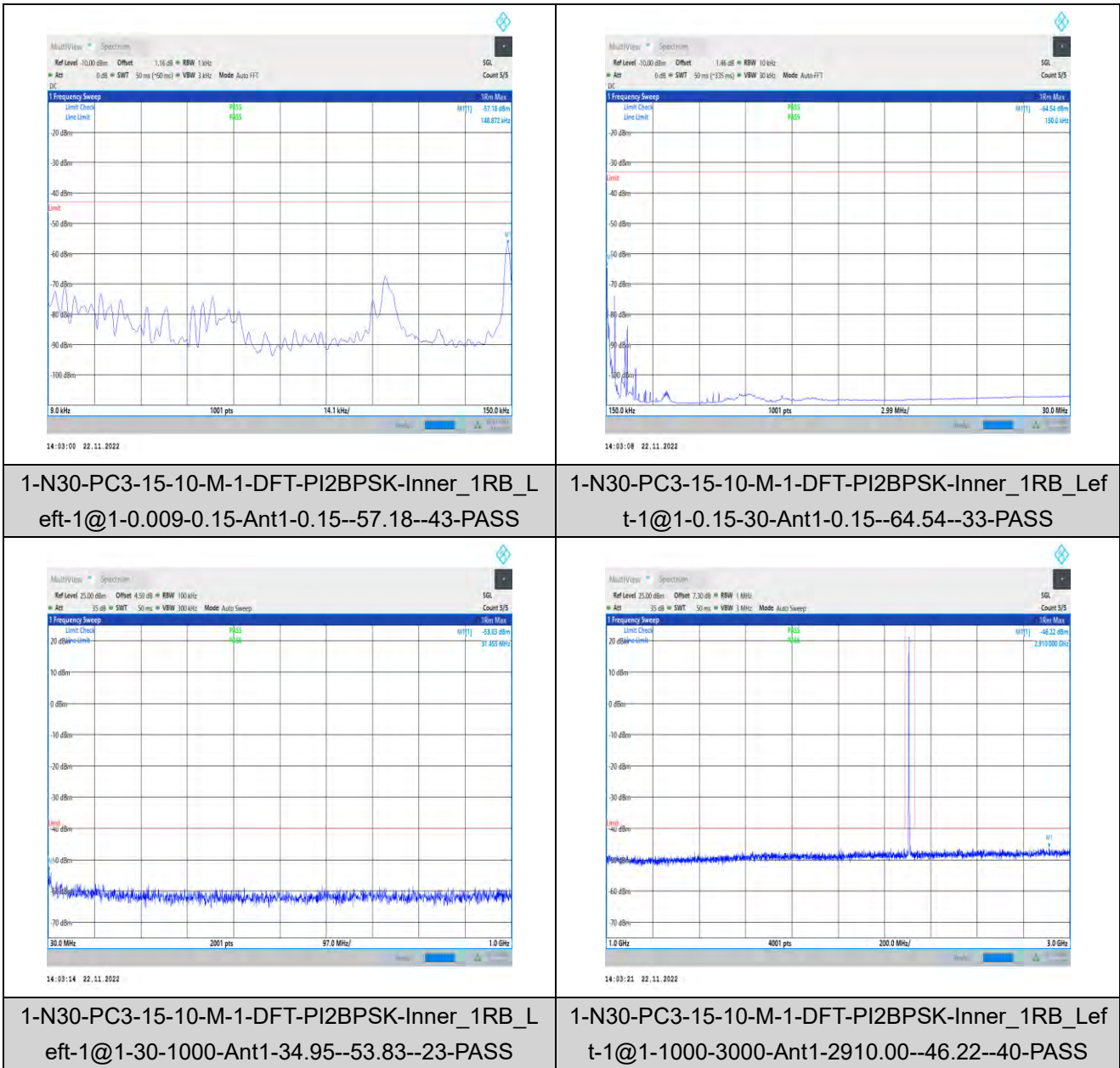


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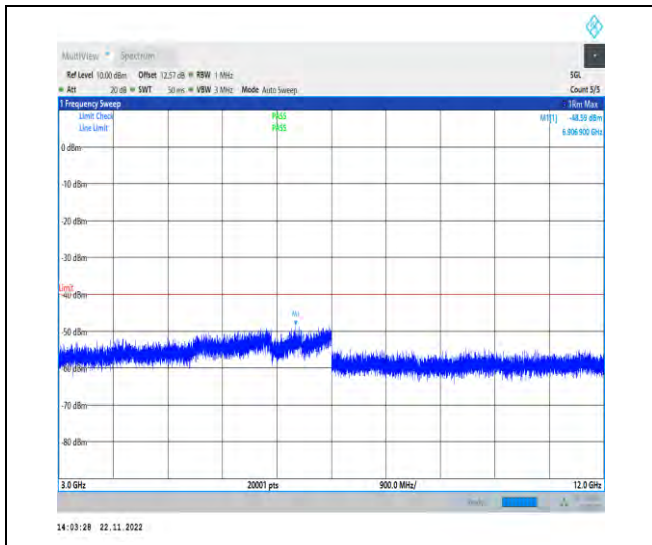
Conducted Spurious Emission for SA

Test Graphs



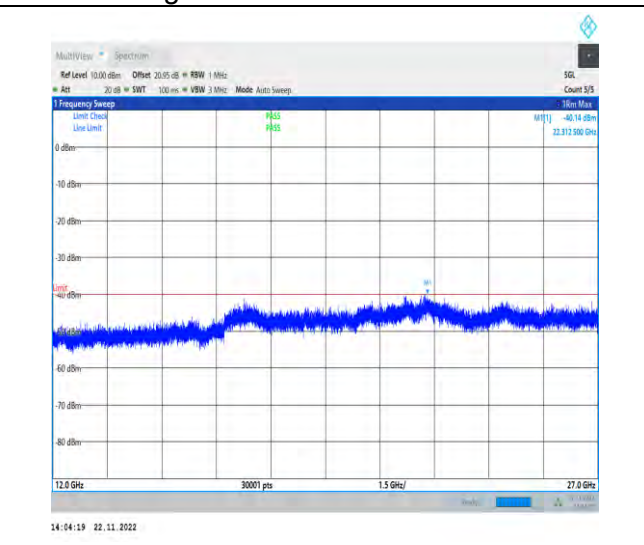
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1-N30-PC3-15-10-M-1-DFT-PI2BPSK-Inner_1RB_L
eft-1@1-3000-12000-Ant1-6906.90--48.59--40-PAS

S



1-N30-PC3-15-10-H-1-DFT-PI2BPSK-Inner_1RB_Lef
t-1@1-12000-27000-Ant1-22312.50--40.14--40-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band 30 BW 10M_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4611	58.16	-44.46	31.67	-49.89	-40.00	9.89	148	225	Horizontal
2	6916.5	46.02	-42.46	36.03	-55.66	-40.00	15.66	236	225	Horizontal
3	9222.36	34.47	-38.40	38.58	-60.61	-40.00	20.61	189	3	Horizontal
4	11527.95	31.62	-35.24	39.07	-59.81	-40.00	19.81	277	359	Horizontal
5	13833.54	32.56	-34.88	40.10	-57.48	-40.00	17.48	317	310	Horizontal
6	16139.13	31.19	-33.34	38.00	-59.41	-40.00	19.41	200	247	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4611	62.37	-44.46	31.67	-45.68	-40.00	5.68	214	105	Vertical
2	6916	52.28	-42.46	36.03	-49.40	-40.00	9.40	347	229	Vertical
3	9221.5	41.90	-38.40	38.58	-53.18	-40.00	13.18	244	125	Vertical
4	11527.95	32.21	-35.24	39.07	-59.22	-40.00	19.22	216	292	Vertical
5	13833.54	33.21	-34.88	40.10	-56.83	-40.00	16.83	148	249	Vertical
6	16139.13	31.51	-33.34	38.00	-59.09	-40.00	19.09	196	62	Vertical



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Test Band = SA Band 30 BW 5M_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6916	44.37	-42.46	36.03	-57.31	-40.00	17.31	296	147	Horizontal
2	4610.68	56.36	-44.46	31.67	-51.69	-40.00	11.69	265	147	Horizontal
3	9221.36	35.55	-38.40	38.58	-59.53	-40.00	19.53	142	167	Horizontal
4	11526.7	31.66	-35.24	39.07	-59.77	-40.00	19.77	201	360	Horizontal
5	13832.04	32.93	-34.89	40.10	-57.12	-40.00	17.12	142	229	Horizontal
6	16137.38	31.33	-33.36	38.00	-59.29	-40.00	19.29	265	224	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4610.5	63.53	-44.46	31.67	-44.52	-40.00	4.52	296	122	Vertical
2	6916.02	48.96	-42.46	36.03	-52.72	-40.00	12.72	265	227	Vertical
3	9221.36	37.17	-38.40	38.58	-57.91	-40.00	17.91	241	101	Vertical
4	11526.7	36.35	-35.24	39.07	-55.08	-40.00	15.08	142	165	Vertical
5	13832.04	32.87	-34.89	40.10	-57.18	-40.00	17.18	255	360	Vertical
6	16137.38	31.35	-33.36	38.00	-59.27	-40.00	19.27	286	39	Vertical



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Test Band = SA Band 30 BW 5M_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4615.5	58.38	-44.45	31.68	-49.65	-40.00	9.65	216	144	Horizontal
2	6923.5	45.23	-42.47	36.05	-56.45	-40.00	16.45	233	205	Horizontal
3	9231	41.48	-38.40	38.58	-53.60	-40.00	13.60	284	205	Horizontal
4	11539.2	31.85	-35.31	39.06	-59.66	-40.00	19.66	174	264	Horizontal
5	13847.04	33.24	-34.76	40.11	-56.67	-40.00	16.67	344	84	Horizontal
6	16154.88	31.24	-33.21	38.01	-59.22	-40.00	19.22	168	63	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4615.5	63.21	-44.45	31.68	-44.82	-40.00	4.82	189	102	Vertical
2	6923.5	49.07	-42.47	36.05	-52.61	-40.00	12.61	236	247	Vertical
3	9231	40.58	-38.40	38.58	-54.50	-40.00	14.50	284	125	Vertical
4	11539.2	37.86	-35.31	39.06	-53.65	-40.00	13.65	166	62	Vertical
5	13847.04	32.95	-34.76	40.11	-56.96	-40.00	16.96	255	80	Vertical
6	16154.88	31.26	-33.21	38.01	-59.20	-40.00	19.20	355	313	Vertical



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Test Band = SA Band 30 BW 5M_ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.5	58.64	-44.43	31.69	-49.37	-40.00	9.37	325	165	Horizontal
2	6931	44.45	-42.48	36.06	-57.23	-40.00	17.23	178	143	Horizontal
3	9241.32	36.15	-38.40	38.58	-58.93	-40.00	18.93	374	360	Horizontal
4	11551.7	31.68	-35.38	39.05	-59.91	-40.00	19.91	124	80	Horizontal
5	13862.04	32.67	-34.63	40.12	-57.11	-40.00	17.11	269	271	Horizontal
6	16172.38	31.46	-33.06	38.02	-58.84	-40.00	18.84	203	228	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.5	63.46	-44.43	31.69	-44.55	-40.00	4.55	254	285	Vertical
2	6931	49.13	-42.48	36.06	-52.55	-40.00	12.55	196	228	Vertical
3	11551.5	40.28	-35.37	39.05	-51.30	-40.00	11.30	235	161	Vertical
4	9241.32	39.70	-38.40	38.58	-55.38	-40.00	15.38	144	248	Vertical
5	13862.04	32.58	-34.63	40.12	-57.20	-40.00	17.20	264	82	Vertical
6	16172.38	31.18	-33.06	38.02	-59.12	-40.00	19.12	233	99	Vertical



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Test Band = DC_5A_n30A BW 10M_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4611	59.47	-44.46	31.67	-48.58	-40.00	8.58	174	143	Horizontal
2	6916	45.87	-42.46	36.03	-55.81	-40.00	15.81	235	205	Horizontal
3	9222.36	35.01	-38.40	38.58	-60.07	-40.00	20.07	189	246	Horizontal
4	11527.95	31.66	-35.24	39.07	-59.77	-40.00	19.77	255	246	Horizontal
5	13833.54	33.31	-34.88	40.10	-56.73	-40.00	16.73	327	286	Horizontal
6	16139.13	30.58	-33.34	38.00	-60.02	-40.00	20.02	169	19	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4610.5	62.39	-44.46	31.67	-45.66	-40.00	5.66	169	272	Vertical
2	6916	49.62	-42.46	36.03	-52.06	-40.00	12.06	214	229	Vertical
3	9222	40.09	-38.40	38.58	-54.99	-40.00	14.99	298	229	Vertical
4	11527.95	31.36	-35.24	39.07	-60.07	-40.00	20.07	366	229	Vertical
5	13833.54	33.60	-34.88	40.10	-56.44	-40.00	16.44	304	359	Vertical
6	16139.13	31.53	-33.34	38.00	-59.07	-40.00	19.07	152	104	Vertical



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Test Band = DC_5A_n30A BW 5M_TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4610.5	58.42	-44.46	31.67	-49.63	-40.00	9.63	143	206	Horizontal
2	6916	45.73	-42.46	36.03	-55.95	-40.00	15.95	189	206	Horizontal
3	9221.36	36.68	-38.40	38.58	-58.40	-40.00	18.40	234	40	Horizontal
4	11526.7	31.18	-35.24	39.07	-60.25	-40.00	20.25	281	99	Horizontal
5	13832.04	33.33	-34.89	40.10	-56.72	-40.00	16.72	325	19	Horizontal
6	16137.38	31.48	-33.36	38.00	-59.14	-40.00	19.14	249	270	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4610.5	63.70	-44.46	31.67	-44.35	-40.00	4.35	136	101	Vertical
2	6916	51.75	-42.46	36.03	-49.93	-40.00	9.93	184	248	Vertical
3	9221.36	37.20	-38.40	38.58	-57.88	-40.00	17.88	255	248	Vertical
4	11526.7	34.57	-35.24	39.07	-56.86	-40.00	16.86	341	163	Vertical
5	13832.04	33.22	-34.89	40.10	-56.83	-40.00	16.83	262	248	Vertical
6	16137.38	31.13	-33.36	38.00	-59.49	-40.00	19.49	198	228	Vertical



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Test Band = DC_5A_n30A BW 5M_TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4615.5	59.02	-44.45	31.68	-49.01	-40.00	9.01	158	144	Horizontal
2	6923.5	46.15	-42.47	36.05	-55.53	-40.00	15.53	236	144	Horizontal
3	9231.36	37.34	-38.40	38.58	-57.74	-40.00	17.74	258	106	Horizontal
4	11539.2	32.57	-35.31	39.06	-58.94	-40.00	18.94	299	312	Horizontal
5	13847.04	32.86	-34.76	40.11	-57.05	-40.00	17.05	302	206	Horizontal
6	16154.88	30.87	-33.21	38.01	-59.59	-40.00	19.59	147	141	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4615.5	63.66	-44.45	31.68	-44.37	-40.00	4.37	277	117	Vertical
2	6923.5	49.72	-42.47	36.05	-51.96	-40.00	11.96	148	240	Vertical
3	9231.36	38.45	-38.40	38.58	-56.63	-40.00	16.63	298	240	Vertical
4	11539.2	36.13	-35.31	39.06	-55.38	-40.00	15.38	233	360	Vertical
5	13847.04	33.03	-34.76	40.11	-56.88	-40.00	16.88	158	261	Vertical
6	16154.88	31.52	-33.21	38.01	-58.94	-40.00	18.94	305	123	Vertical



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Test Band = DC_5A_n30A BW 5M_TM1
Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.5	59.99	-44.43	31.69	-48.02	-40.00	8.02	286	206	Horizontal
2	6931	44.14	-42.48	36.06	-57.54	-40.00	17.54	178	143	Horizontal
3	9241.32	37.99	-38.40	38.58	-57.09	-40.00	17.09	236	206	Horizontal
4	11551.7	30.94	-35.38	39.05	-60.65	-40.00	20.65	241	144	Horizontal
5	13862.04	32.84	-34.63	40.12	-56.94	-40.00	16.94	352	82	Horizontal
6	16172.38	30.64	-33.06	38.02	-59.66	-40.00	19.66	153	360	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.5	63.10	-44.43	31.69	-44.91	-40.00	4.91	135	101	Vertical
2	6931	46.94	-42.48	36.06	-54.74	-40.00	14.74	249	228	Vertical
3	9241.32	37.88	-38.40	38.58	-57.20	-40.00	17.20	165	81	Vertical
4	11551.7	36.09	-35.38	39.05	-55.50	-40.00	15.50	287	166	Vertical
5	13862.04	33.08	-34.63	40.12	-56.70	-40.00	16.70	306	243	Vertical
6	16172.38	30.82	-33.06	38.02	-59.48	-40.00	19.48	199	101	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	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N30	15	10	DFT-PI2BPSK	M	Outer_Full	VH	NT	-9.500000	-0.013960	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	VN	NT	-11.000000	-0.016165	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	VL	NT	-8.100000	-0.011903	PASS
N30	15	10	CP-QPSK	M	Outer_Full	VH	NT	-2.800000	-0.004115	PASS
N30	15	10	CP-QPSK	M	Outer_Full	VN	NT	-4.600000	-0.006760	PASS
N30	15	10	CP-QPSK	M	Outer_Full	VL	NT	-1.000000	-0.001470	PASS



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Frequency Error VS. Temperature

Temperature

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-30	-0.900000	-0.000390	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-20	-5.900000	-0.002554	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-10	-5.000000	-0.002165	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	0	-4.300000	-0.001861	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	10	-3.300000	-0.001429	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	20	-3.400000	-0.001472	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	30	-3.400000	-0.001472	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	40	-3.500000	-0.001515	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	50	-3.200000	-0.001385	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	-30	-4.600000	-0.001991	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	-20	-3.300000	-0.001429	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	-10	-6.900000	-0.002987	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	0	-8.900000	-0.003853	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	10	-2.300000	-0.000996	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	20	-4.800000	-0.002078	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	30	-3.700000	-0.001602	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	40	-5.400000	-0.002338	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	50	-2.800000	-0.001212	PASS

---End of Attachment---



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