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Appendix B.17

NR Band n5



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

ANT1

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	ERP (dBm)	Limit	Verdict
N5	15	5	DFT-QPSK	L	Inner_1RB_Left	24.50	20.05	38.45	PASS
N5	15	5	DFT-16QAM	L	Inner_1RB_Left	23.74	19.29	38.45	PASS
N5	15	5	DFT-QPSK	M	Inner_1RB_Left	24.69	20.24	38.45	PASS
N5	15	5	DFT-16QAM	M	Inner_1RB_Left	23.72	19.27	38.45	PASS
N5	15	5	DFT-QPSK	H	Inner_1RB_Left	24.52	20.07	38.45	PASS
N5	15	5	DFT-16QAM	H	Inner_1RB_Left	23.71	19.26	38.45	PASS
N5	15	10	DFT-QPSK	L	Inner_1RB_Left	24.51	20.06	38.45	PASS
N5	15	10	DFT-16QAM	L	Inner_1RB_Left	23.62	19.17	38.45	PASS
N5	15	10	DFT-QPSK	M	Inner_1RB_Left	24.64	20.19	38.45	PASS
N5	15	10	DFT-16QAM	M	Inner_1RB_Left	23.66	19.21	38.45	PASS
N5	15	10	DFT-QPSK	H	Inner_1RB_Left	24.75	20.30	38.45	PASS
N5	15	10	DFT-16QAM	H	Inner_1RB_Left	23.73	19.28	38.45	PASS
N5	15	10	DFT-16QAM	H	Inner_1RB_Right	23.75	19.30	38.45	PASS
N5	15	15	DFT-QPSK	L	Inner_1RB_Left	24.48	20.03	38.45	PASS
N5	15	15	DFT-16QAM	L	Inner_1RB_Left	23.75	19.30	38.45	PASS
N5	15	15	DFT-QPSK	M	Inner_1RB_Left	24.27	19.82	38.45	PASS
N5	15	15	DFT-16QAM	M	Inner_1RB_Left	23.50	19.05	38.45	PASS
N5	15	15	DFT-QPSK	H	Inner_1RB_Left	24.49	20.04	38.45	PASS
N5	15	15	DFT-16QAM	H	Inner_1RB_Left	23.66	19.21	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	Inner_1RB_Left	24.34	19.89	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	Inner_1RB_Right	24.47	20.02	38.45	PASS
N5	15	20	DFT-PI2BPSK	L	Outer_Full	23.99	19.54	38.45	PASS
N5	15	20	DFT-QPSK	L	Inner_1RB_Left	24.52	20.07	38.45	PASS
N5	15	20	DFT-QPSK	L	Inner_1RB_Right	24.77	20.32	38.45	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	23.50	19.05	38.45	PASS
N5	15	20	DFT-16QAM	L	Inner_1RB_Left	23.53	19.08	38.45	PASS
N5	15	20	DFT-16QAM	L	Inner_1RB_Right	23.75	19.30	38.45	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	22.72	18.27	38.45	PASS
N5	15	20	DFT-64QAM	L	Inner_1RB_Left	21.80	17.35	38.45	PASS
N5	15	20	DFT-64QAM	L	Inner_1RB_Right	21.94	17.49	38.45	PASS



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N5	15	20	DFT-64QAM	L	Outer_Full	22.29	17.84	38.45	PASS
N5	15	20	DFT-256QAM	L	Inner_1RB_Left	20.25	15.80	38.45	PASS
N5	15	20	DFT-256QAM	L	Inner_1RB_Right	20.33	15.88	38.45	PASS
N5	15	20	DFT-256QAM	L	Outer_Full	20.19	15.74	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	Inner_1RB_Left	24.29	19.84	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	Inner_1RB_Right	24.48	20.03	38.45	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	24.06	19.61	38.45	PASS
N5	15	20	DFT-QPSK	M	Inner_1RB_Left	24.52	20.07	38.45	PASS
N5	15	20	DFT-QPSK	M	Inner_1RB_Right	24.71	20.26	38.45	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	23.49	19.04	38.45	PASS
N5	15	20	DFT-16QAM	M	Inner_1RB_Left	23.50	19.05	38.45	PASS
N5	15	20	DFT-16QAM	M	Inner_1RB_Right	23.60	19.15	38.45	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	22.74	18.29	38.45	PASS
N5	15	20	DFT-64QAM	M	Inner_1RB_Left	21.81	17.36	38.45	PASS
N5	15	20	DFT-64QAM	M	Inner_1RB_Right	21.98	17.53	38.45	PASS
N5	15	20	DFT-64QAM	M	Outer_Full	22.25	17.80	38.45	PASS
N5	15	20	DFT-256QAM	M	Inner_1RB_Left	20.23	15.78	38.45	PASS
N5	15	20	DFT-256QAM	M	Inner_1RB_Right	20.27	15.82	38.45	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	20.24	15.79	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	Inner_1RB_Left	24.36	19.91	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	Inner_1RB_Right	24.37	19.92	38.45	PASS
N5	15	20	DFT-PI2BPSK	H	Outer_Full	24.00	19.55	38.45	PASS
N5	15	20	DFT-QPSK	H	Inner_1RB_Left	24.58	20.13	38.45	PASS
N5	15	20	DFT-QPSK	H	Inner_1RB_Right	24.69	20.24	38.45	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	23.53	19.08	38.45	PASS
N5	15	20	DFT-16QAM	H	Inner_1RB_Left	23.65	19.20	38.45	PASS
N5	15	20	DFT-16QAM	H	Inner_1RB_Right	23.61	19.16	38.45	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	22.79	18.34	38.45	PASS
N5	15	20	DFT-64QAM	H	Inner_1RB_Left	21.84	17.39	38.45	PASS
N5	15	20	DFT-64QAM	H	Inner_1RB_Right	21.97	17.52	38.45	PASS
N5	15	20	DFT-64QAM	H	Outer_Full	22.29	17.84	38.45	PASS
N5	15	20	DFT-256QAM	H	Inner_1RB_Left	20.22	15.77	38.45	PASS
N5	15	20	DFT-256QAM	H	Inner_1RB_Right	20.30	15.85	38.45	PASS
N5	15	20	DFT-256QAM	H	Outer_Full	20.19	15.74	38.45	PASS



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Peak-to-Average Ratio for SA

Test Result

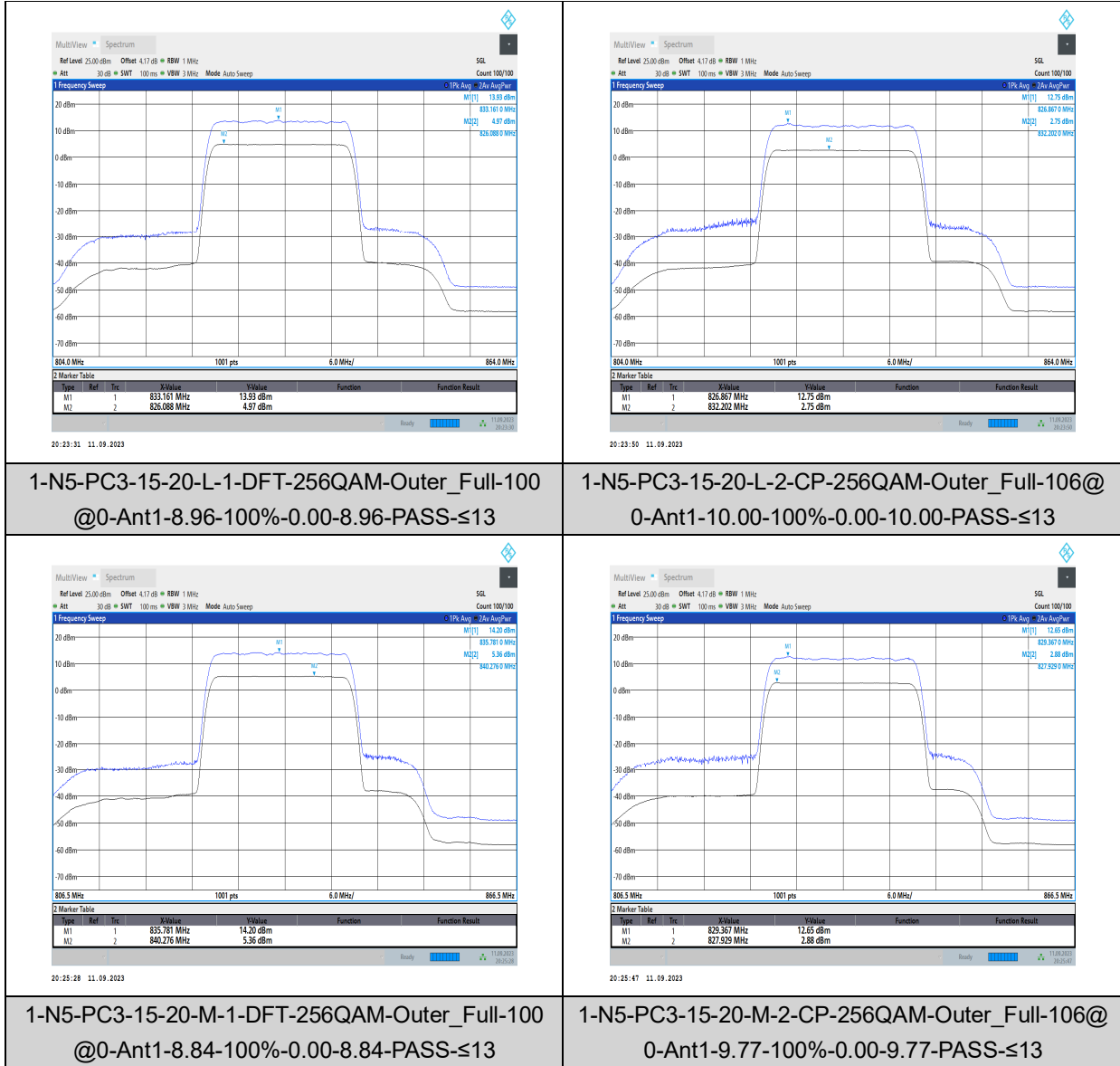
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N5	15	20	DFT-256QAM	L	Outer_Full	8.96	≤13	PASS
N5	15	20	CP-256QAM	L	Outer_Full	10.00	≤13	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	8.84	≤13	PASS
N5	15	20	CP-256QAM	M	Outer_Full	9.77	≤13	PASS
N5	15	20	DFT-256QAM	H	Outer_Full	8.98	≤13	PASS
N5	15	20	CP-256QAM	H	Outer_Full	9.88	≤13	PASS



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Test Graphs



1-N5-PC3-15-20-L-1-DFT-256QAM-Outer_Full-100 @0-Ant1-8.96-100%-0.00-8.96-PASS-≤13

1-N5-PC3-15-20-L-2-CP-256QAM-Outer_Full-106@ 0-Ant1-10.00-100%-0.00-10.00-PASS-≤13

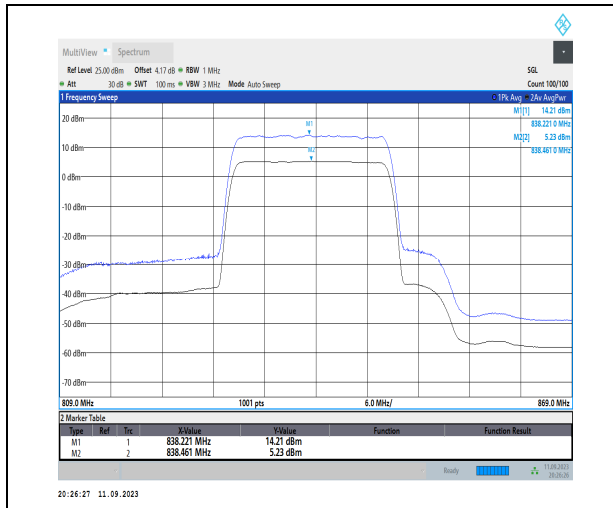
1-N5-PC3-15-20-M-1-DFT-256QAM-Outer_Full-100 @0-Ant1-8.84-100%-0.00-8.84-PASS-≤13

1-N5-PC3-15-20-M-2-CP-256QAM-Outer_Full-106@ 0-Ant1-9.77-100%-0.00-9.77-PASS-≤13

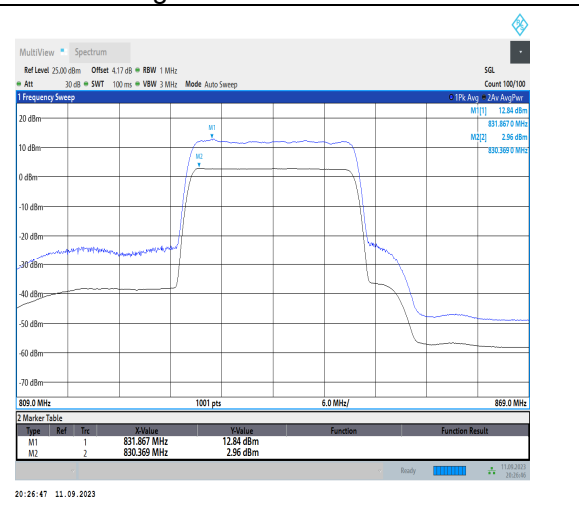


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1-N5-PC3-15-20-H-1-DFT-256QAM-Outer_Full-100
@0-Ant1-8.98-100%-0.00-8.98-PASS-≤13



1-N5-PC3-15-20-H-2-CP-256QAM-Outer_Full-106@
0-Ant1-9.88-100%-0.00-9.88-PASS-≤13



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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N5	15	5	DFT-QPSK	M	Outer_Full	4.464	4.820	PASS
N5	15	5	DFT-PI2BPSK	M	Outer_Full	4.474	4.800	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	4.473	4.810	PASS
N5	15	5	DFT-64QAM	M	Outer_Full	4.444	4.740	PASS
N5	15	5	DFT-256QAM	M	Outer_Full	4.475	4.840	PASS
N5	15	5	CP-QPSK	M	Outer_Full	4.479	4.850	PASS
N5	15	5	CP-16QAM	M	Outer_Full	4.468	5.070	PASS
N5	15	5	CP-64QAM	M	Outer_Full	4.486	5.170	PASS
N5	15	5	CP-256QAM	M	Outer_Full	4.475	4.800	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	8.904	9.360	PASS
N5	15	10	DFT-PI2BPSK	M	Outer_Full	8.94	9.360	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	8.919	9.400	PASS
N5	15	10	DFT-64QAM	M	Outer_Full	8.919	9.360	PASS
N5	15	10	DFT-256QAM	M	Outer_Full	8.928	9.380	PASS
N5	15	10	CP-QPSK	M	Outer_Full	9.289	10.040	PASS
N5	15	10	CP-16QAM	M	Outer_Full	9.302	9.760	PASS
N5	15	10	CP-64QAM	M	Outer_Full	9.277	9.760	PASS
N5	15	10	CP-256QAM	M	Outer_Full	9.291	9.760	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	13.452	14.040	PASS
N5	15	15	DFT-PI2BPSK	M	Outer_Full	13.469	14.190	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	13.425	14.100	PASS
N5	15	15	DFT-64QAM	M	Outer_Full	13.45	14.160	PASS
N5	15	15	DFT-256QAM	M	Outer_Full	13.43	14.040	PASS
N5	15	15	CP-QPSK	M	Outer_Full	14.111	14.790	PASS
N5	15	15	CP-16QAM	M	Outer_Full	14.069	14.760	PASS
N5	15	15	CP-64QAM	M	Outer_Full	14.12	14.820	PASS
N5	15	15	CP-256QAM	M	Outer_Full	14.058	14.730	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	17.879	18.640	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	17.875	18.640	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	17.83	18.640	PASS



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N5	15	20	DFT-64QAM	M	Outer_Full	17.859	18.640	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	17.844	18.600	PASS
N5	15	20	CP-QPSK	M	Outer_Full	18.942	19.680	PASS
N5	15	20	CP-16QAM	M	Outer_Full	18.925	19.680	PASS
N5	15	20	CP-64QAM	M	Outer_Full	18.906	19.720	PASS
N5	15	20	CP-256QAM	M	Outer_Full	18.937	19.680	PASS

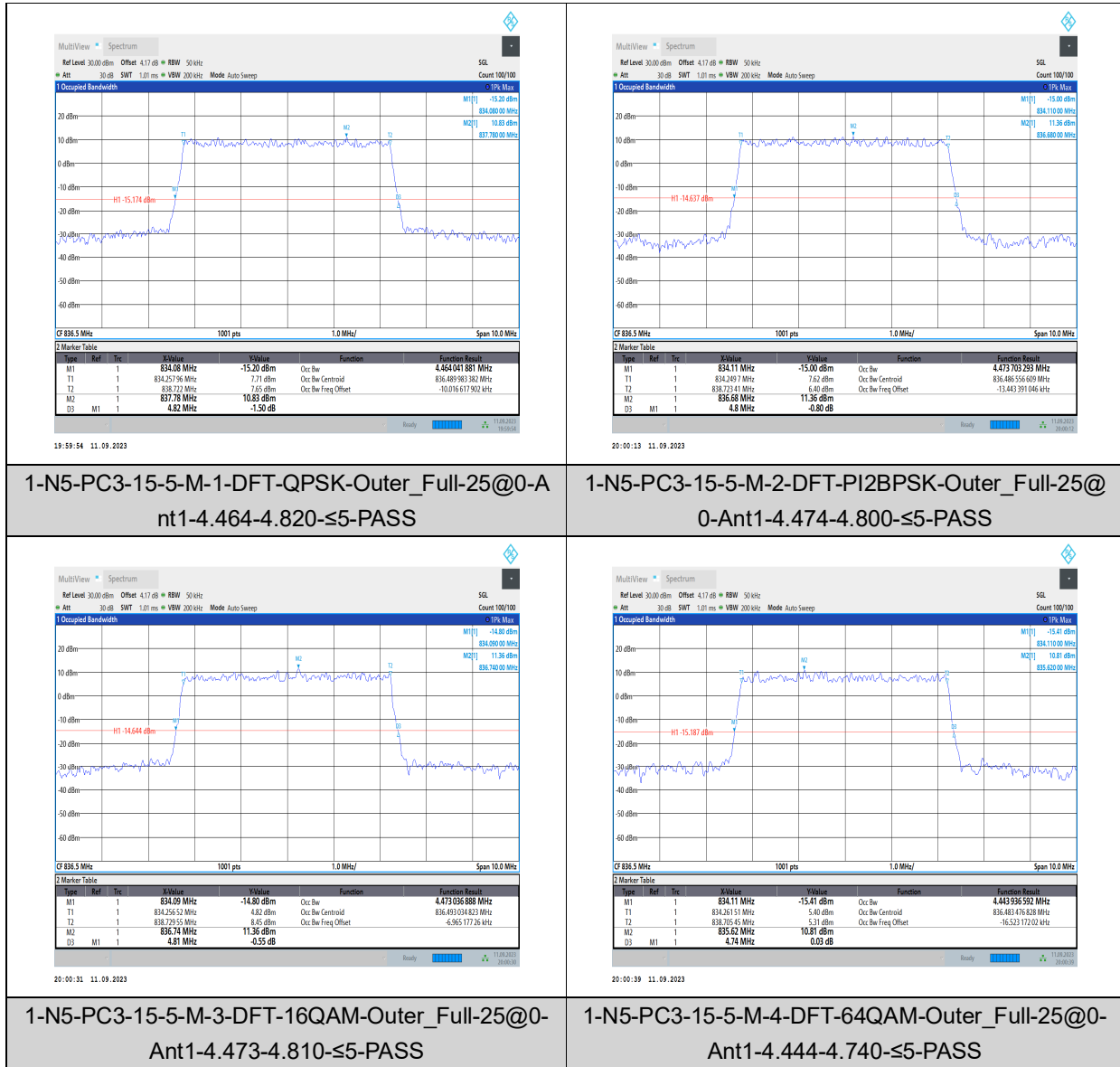


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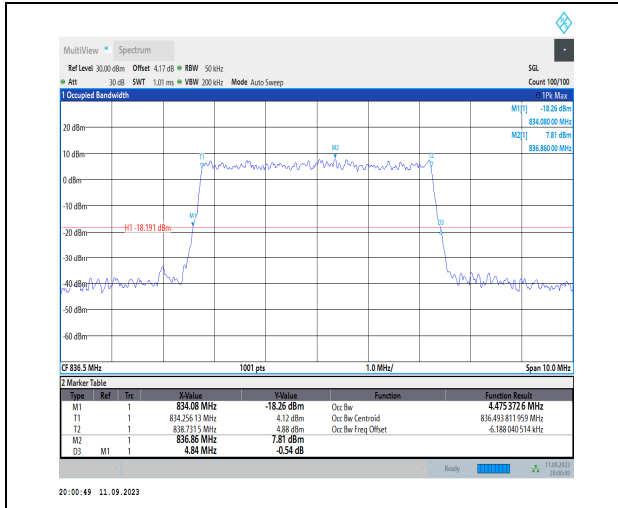
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Test Graphs

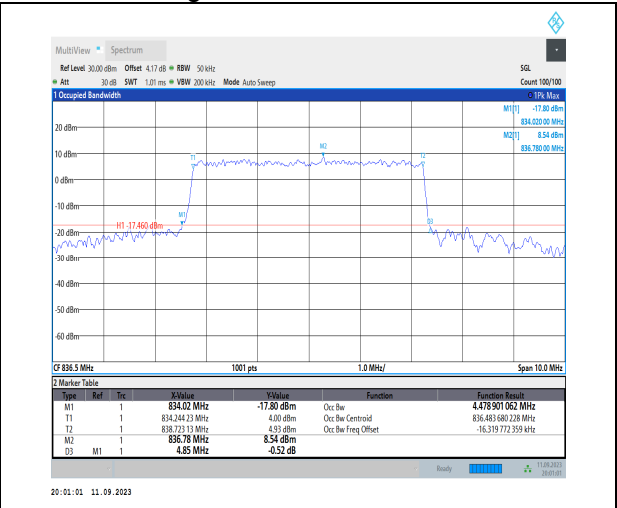


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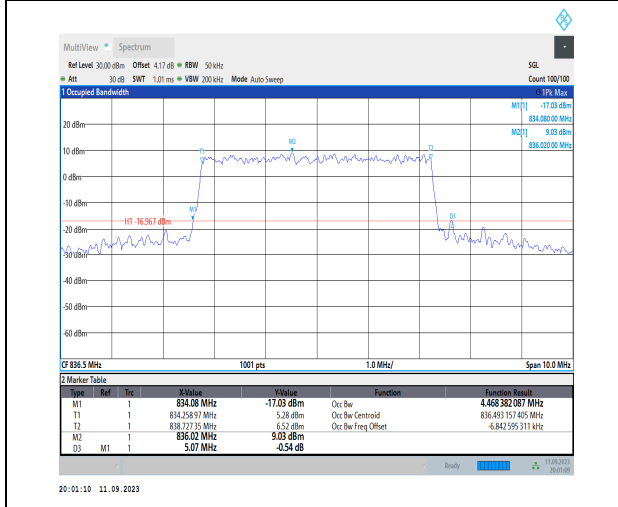
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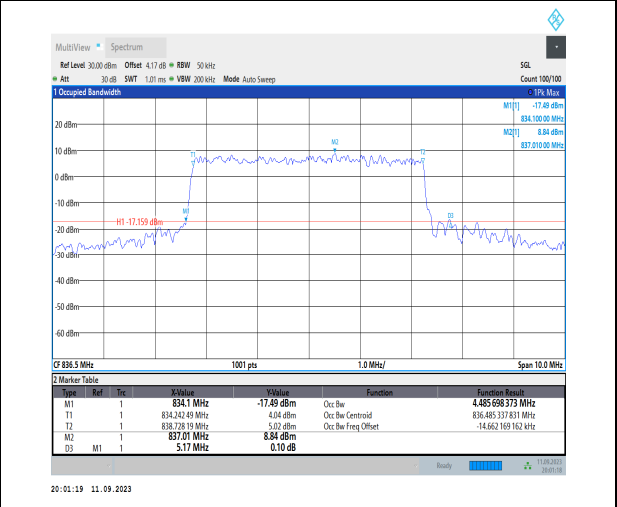
1-N5-PC3-15-5-M-5-DFT-256QAM-Outer_Full-25@0
-Ant1-4.475-4.840- ≤ 5 -PASS



1-N5-PC3-15-5-M-6-CP-QPSK-Outer_Full-25@0-An
t1-4.479-4.850- ≤ 5 -PASS



1-N5-PC3-15-5-M-7-CP-16QAM-Outer_Full-25@0-A
nt1-4.468-5.070- ≤ 5 -PASS

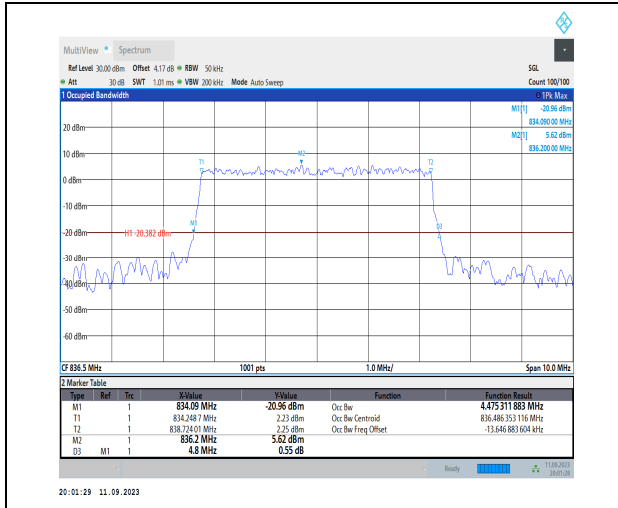


1-N5-PC3-15-5-M-8-CP-64QAM-Outer_Full-25@0-A
nt1-4.486-5.170- ≤ 5 -PASS

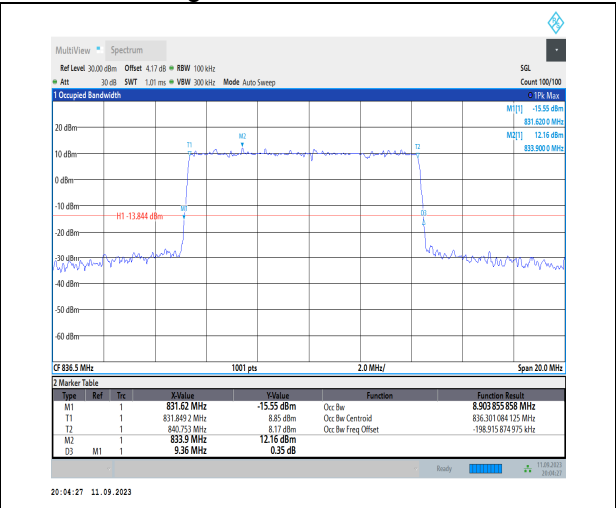


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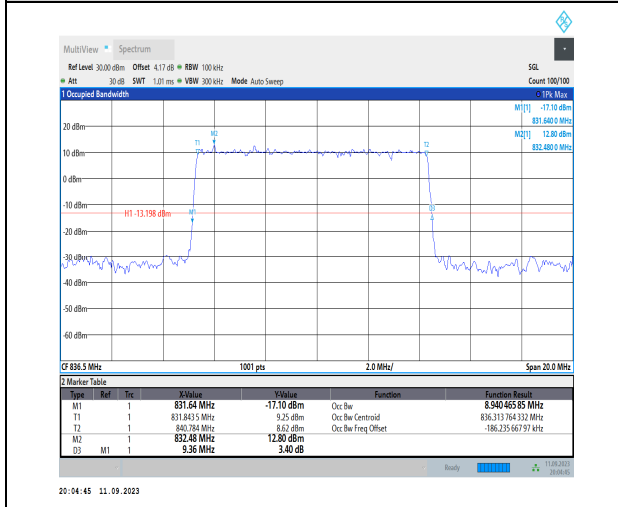
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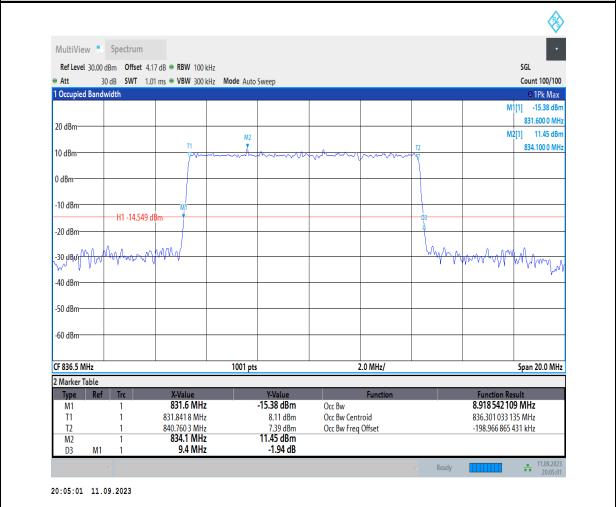
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1-N5-PC3-15-10-M-1-DFT-QPSK-Outer_Full-50@0-Ant1-8.904-9.360-≤10-PASS



1-N5-PC3-15-10-M-2-DFT-PI2BPSK-Outer_Full-50@0-Ant1-8.94-9.360-≤10-PASS

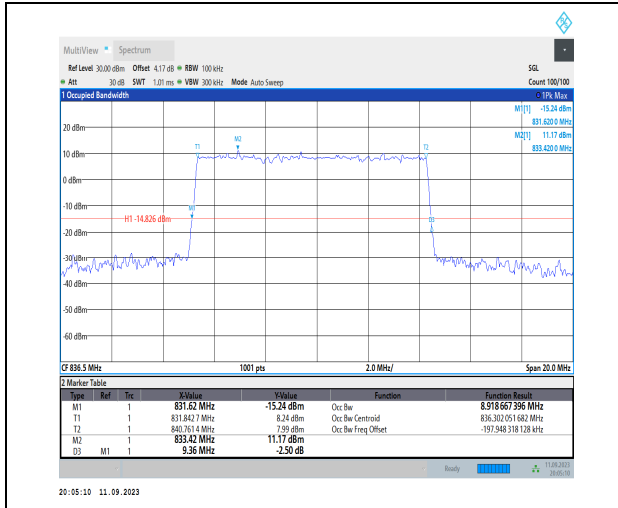


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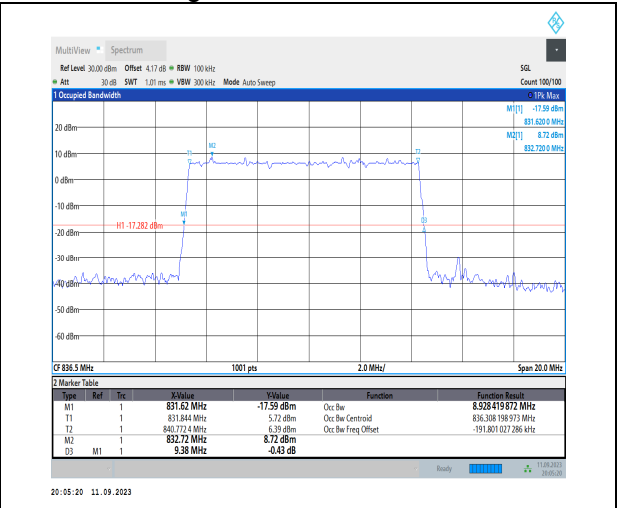


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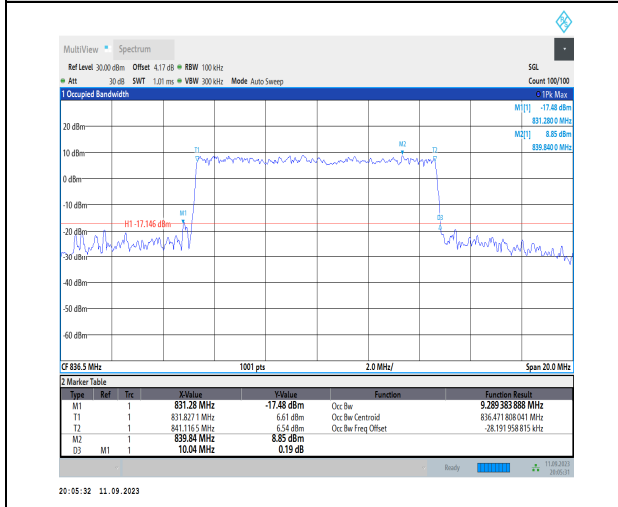
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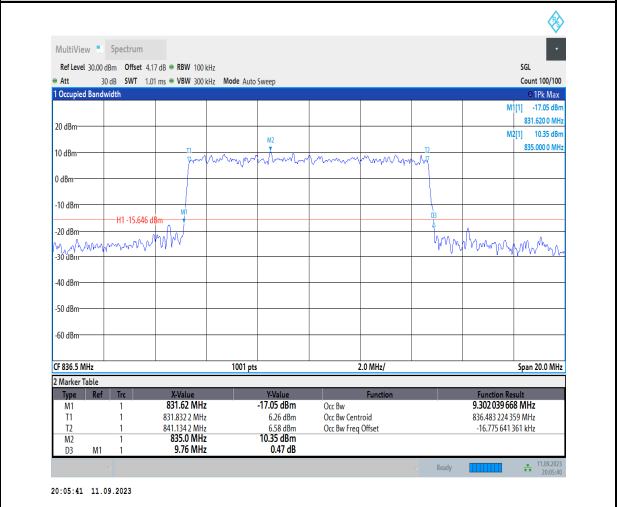
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1-N5-PC3-15-10-M-5-DFT-256QAM-Outer_Full-50@0-Ant1-8.928-9.380-≤10-PASS



1-N5-PC3-15-10-M-6-CP-QPSK-Outer_Full-52@0-Ant1-9.289-10.040-≤10-PASS

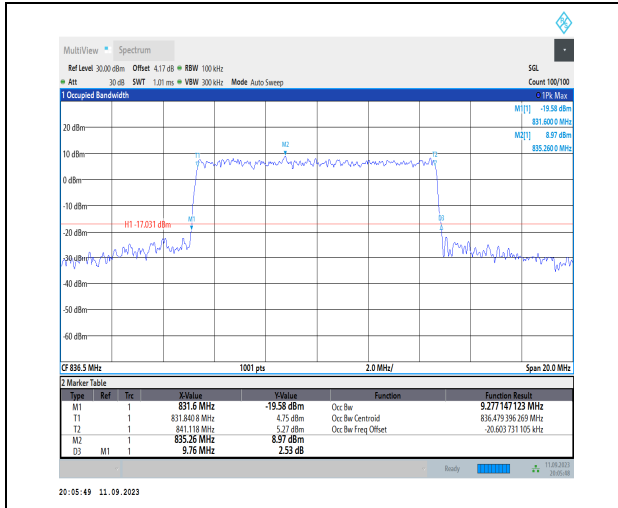


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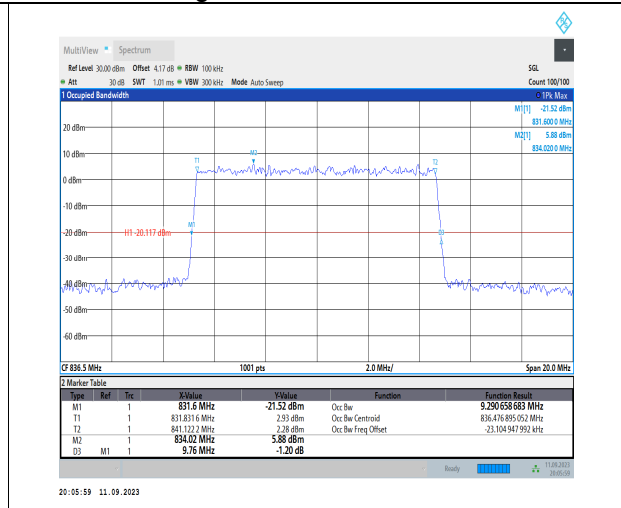


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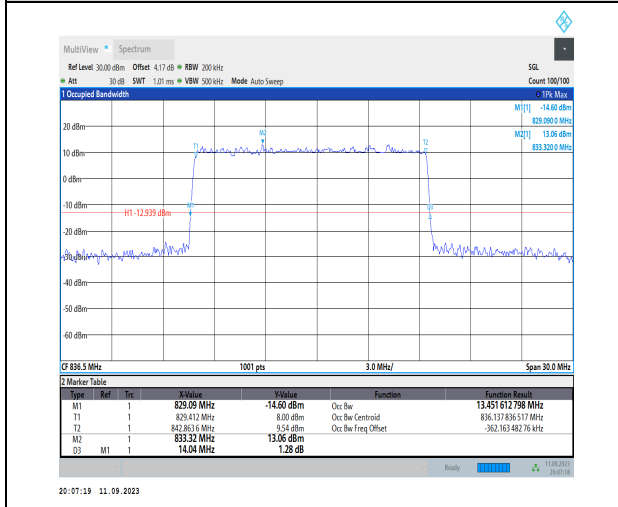
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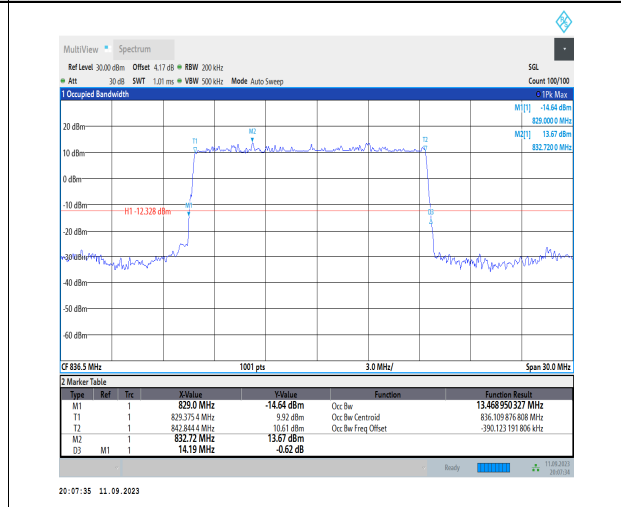
1-N5-PC3-15-10-M-8-CP-64QAM-Outer_Full-52@0-Ant1-9.277-9.760-≤10-PASS



1-N5-PC3-15-10-M-9-CP-256QAM-Outer_Full-52@0-Ant1-9.291-9.760-≤10-PASS

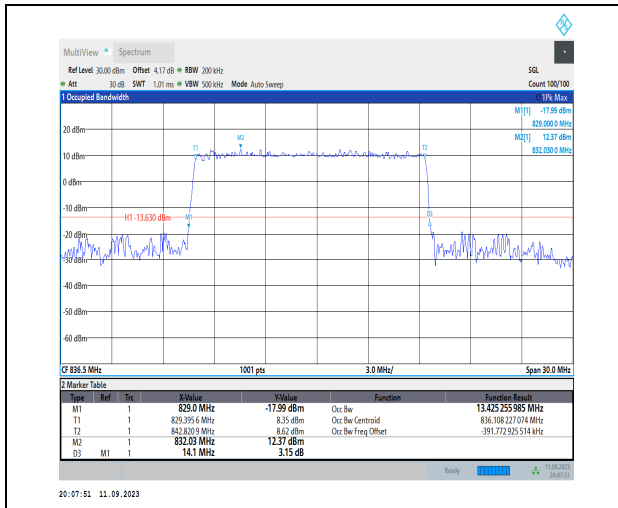


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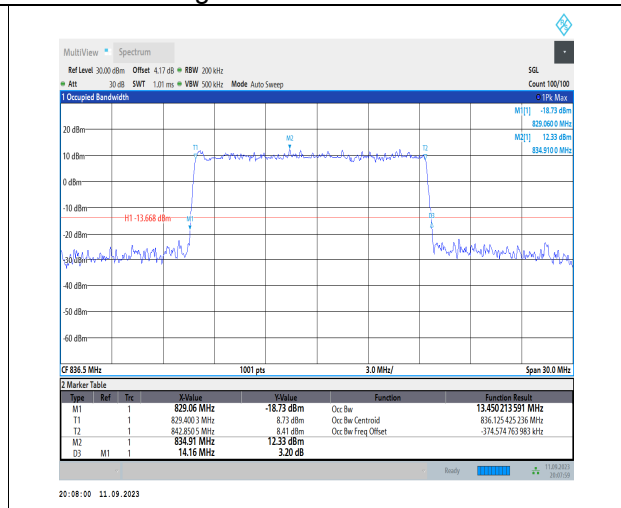


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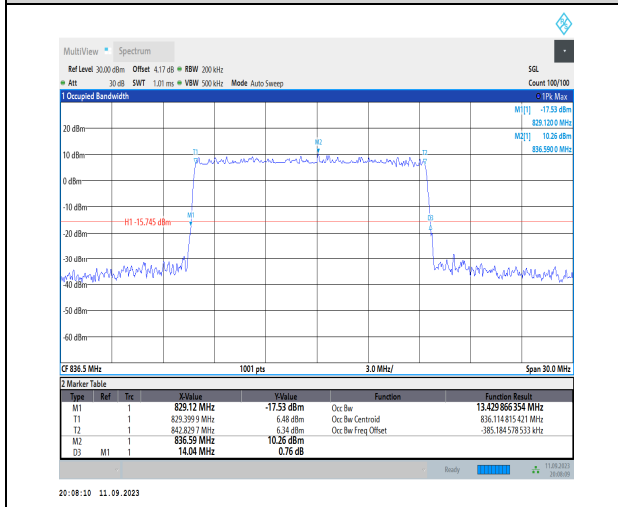




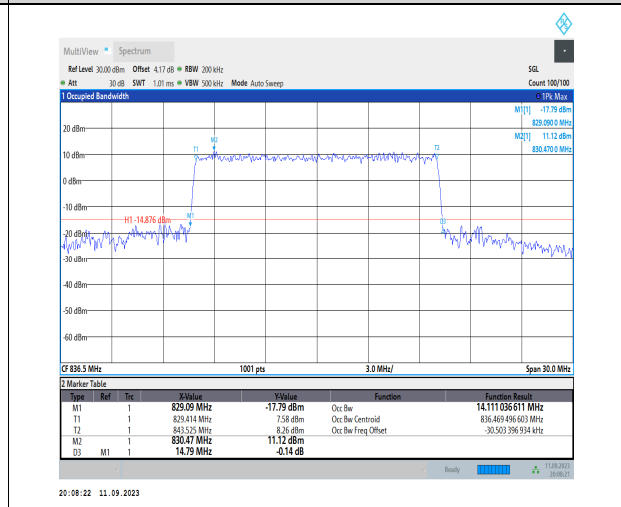
1-N5-PC3-15-15-M-3-DFT-16QAM-Outer_Full-75@0
 -Ant1-13.425-14.100-≤15-PASS



1-N5-PC3-15-15-M-4-DFT-64QAM-Outer_Full-75@0
 -Ant1-13.45-14.160-≤15-PASS



1-N5-PC3-15-15-M-5-DFT-256QAM-Outer_Full-75@0
 -Ant1-13.43-14.040-≤15-PASS

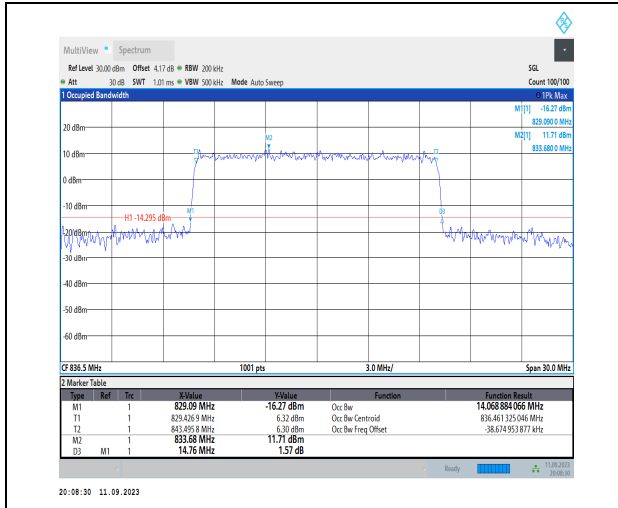


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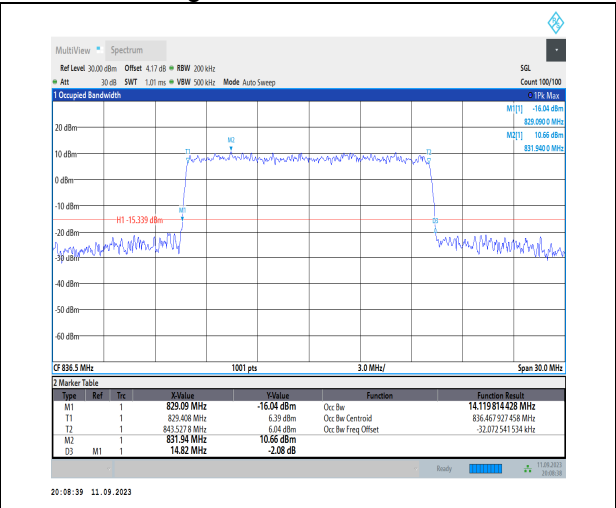


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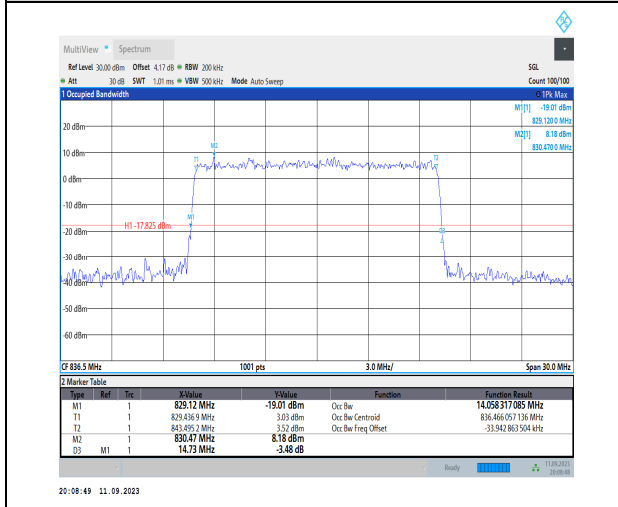
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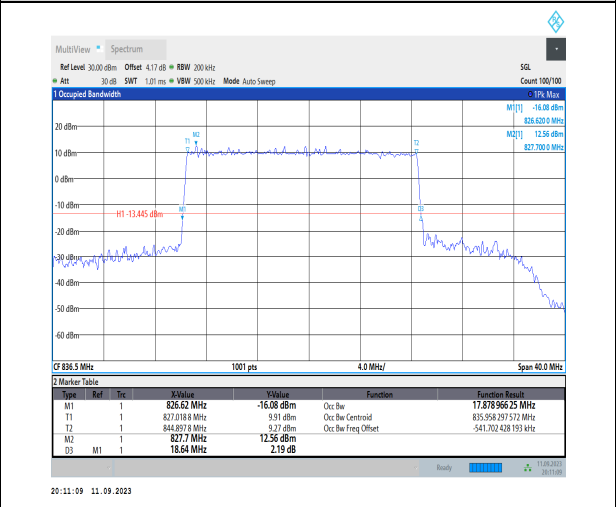
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1-N5-PC3-15-15-M-8-CP-64QAM-Outer_Full-79@0-Ant1-14.12-14.820-≤ 15-PASS



1-N5-PC3-15-15-M-9-CP-256QAM-Outer_Full-79@0-Ant1-14.058-14.730-≤ 15-PASS

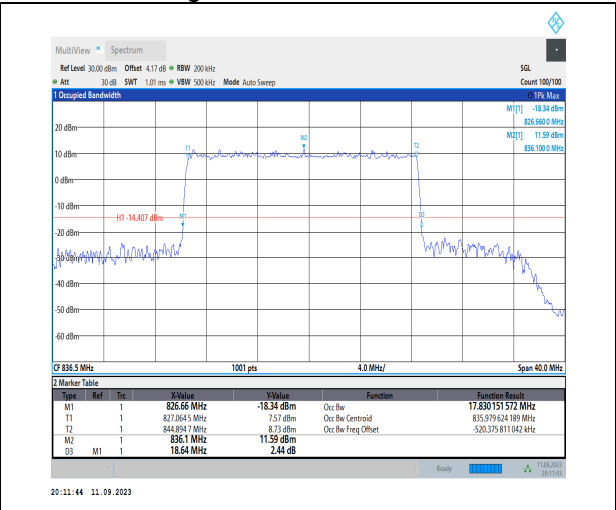


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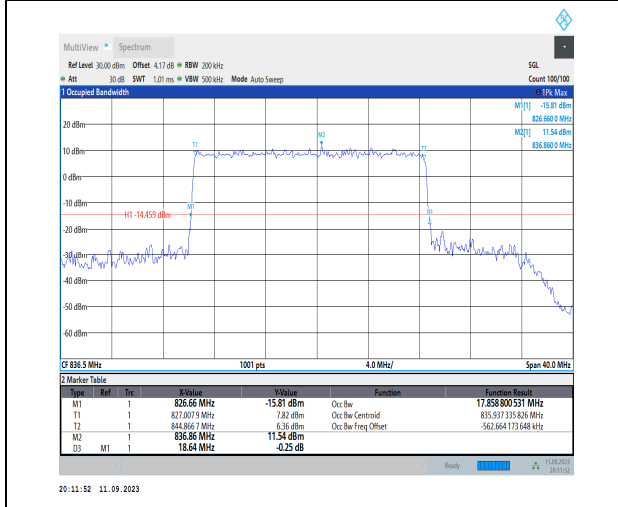




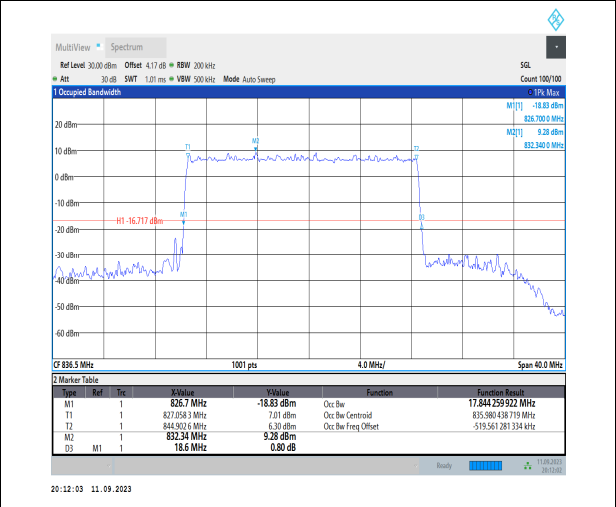
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1-N5-PC3-15-20-M-3-DFT-16QAM-Outer_Full-100 @0-Ant1-17.83-18.640-≤20-PASS



1-N5-PC3-15-20-M-4-DFT-64QAM-Outer_Full-100 @0-Ant1-17.859-18.640-≤20-PASS

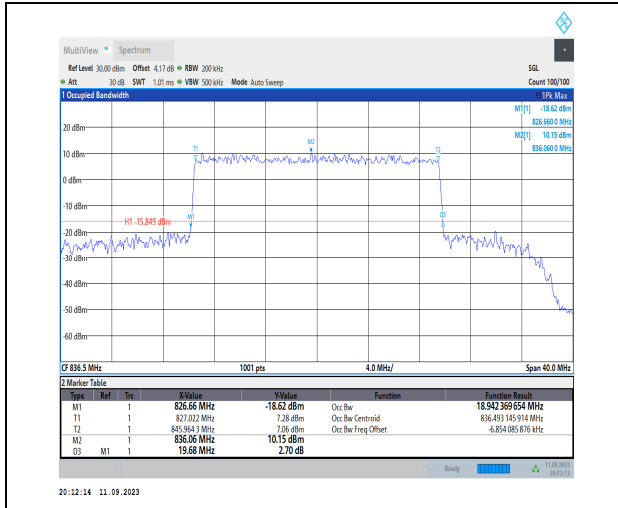


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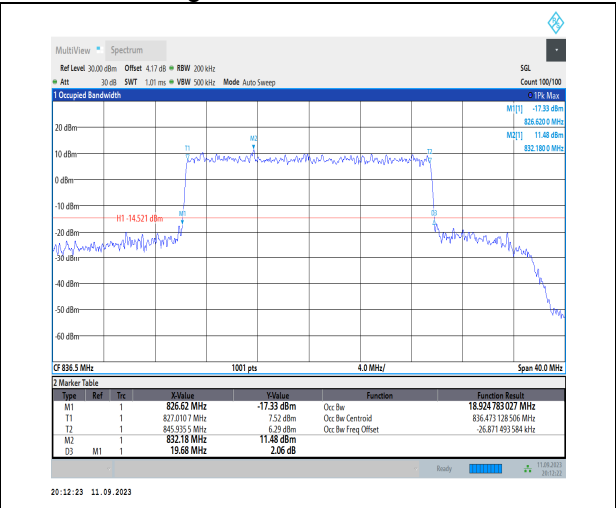


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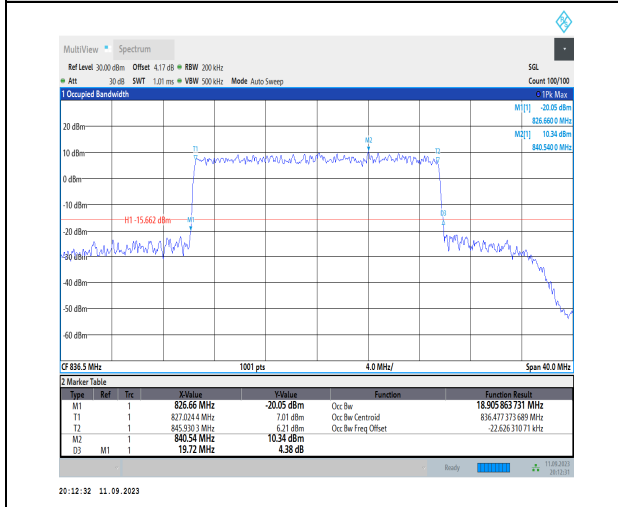
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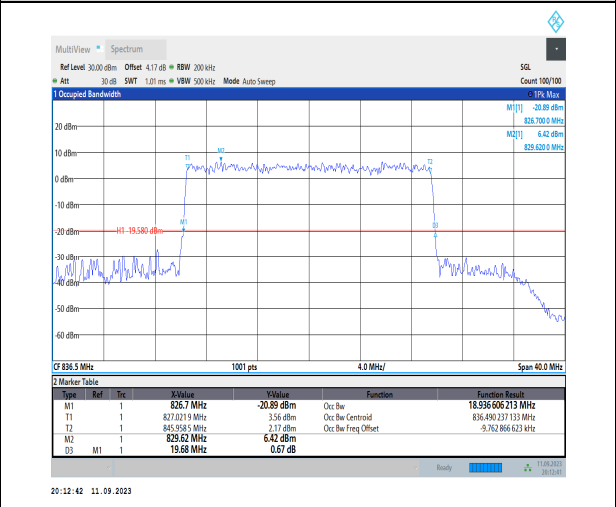
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1-N5-PC3-15-20-M-8-CP-64QAM-Outer_Full-106@0-Ant1-18.906-19.720-<=20-PASS



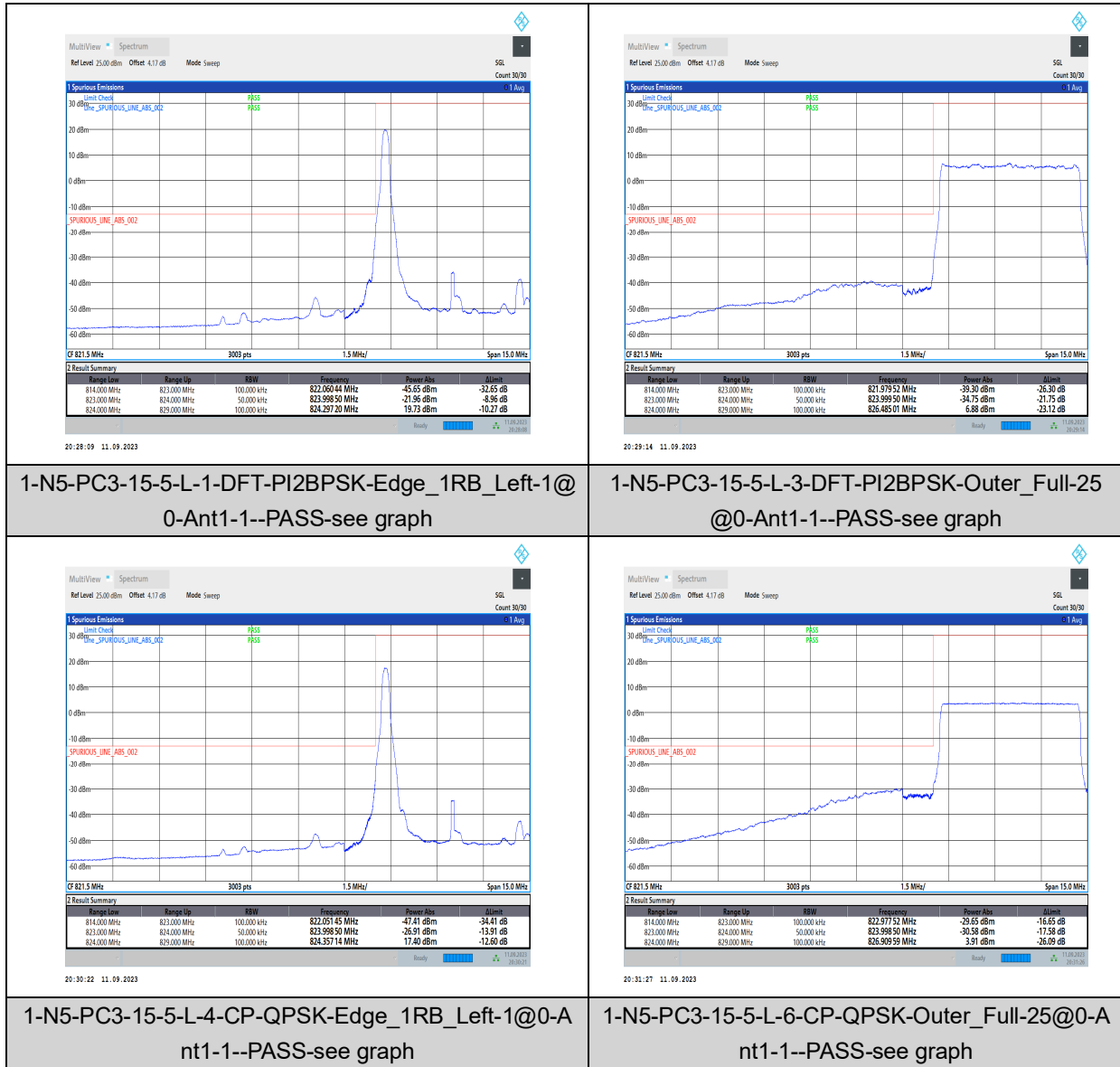
1-N5-PC3-15-20-M-9-CP-256QAM-Outer_Full-106@0-Ant1-18.937-19.680-<=20-PASS



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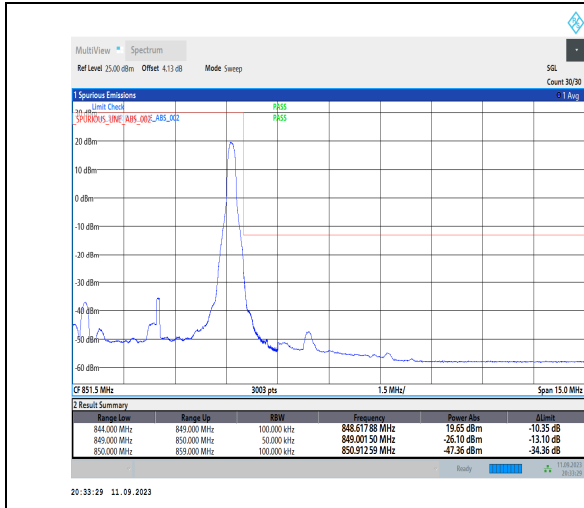
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Band Edge for SA Test Graphs

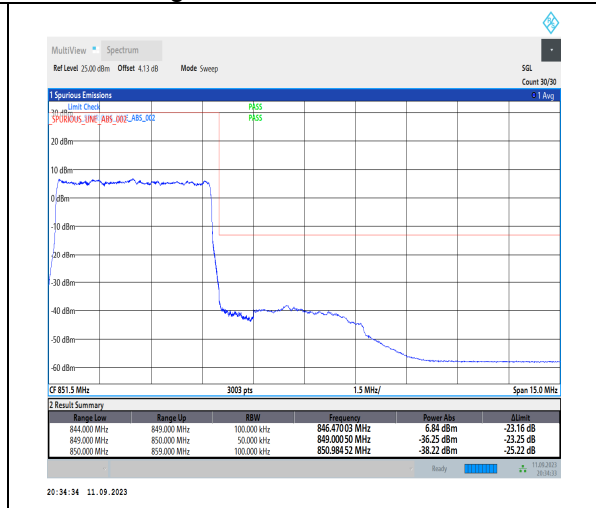


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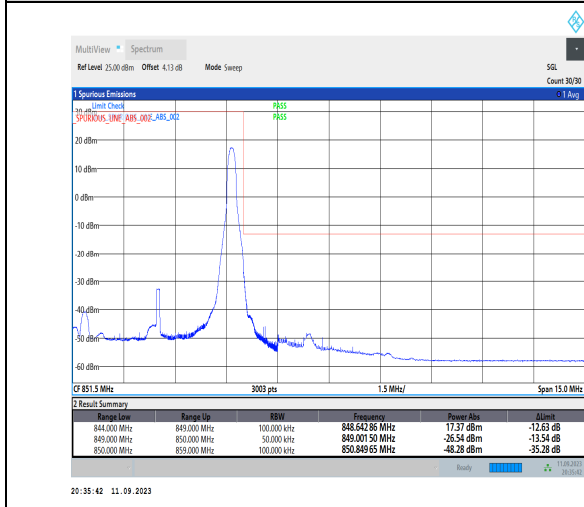
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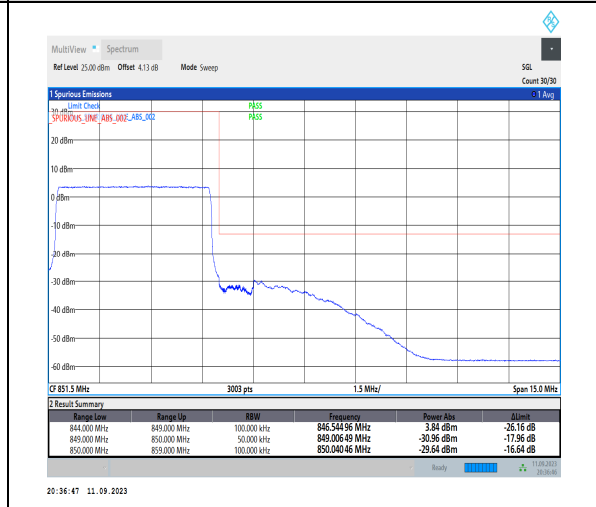
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1-N5-PC3-15-5-H-3-DFT-PI2BPSK-Outer_Full-25 @0-Ant1-1--PASS-see graph



1-N5-PC3-15-5-H-5-CP-QPSK-Edge_1RB_Right-1@2 4-Ant1-1--PASS-see graph

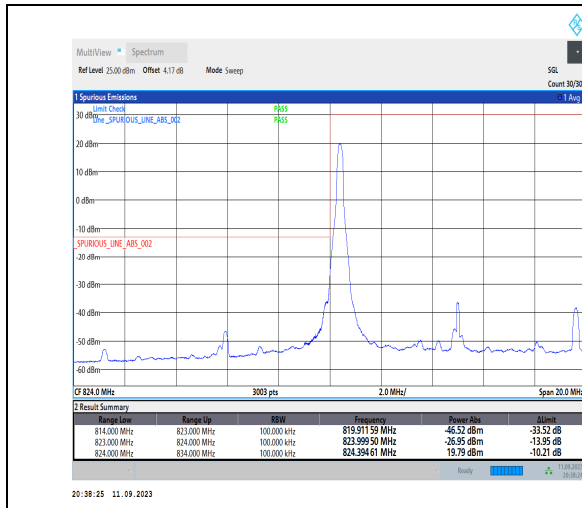


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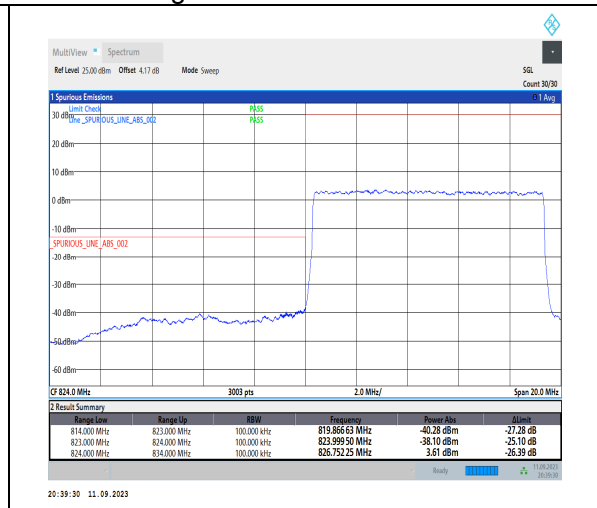


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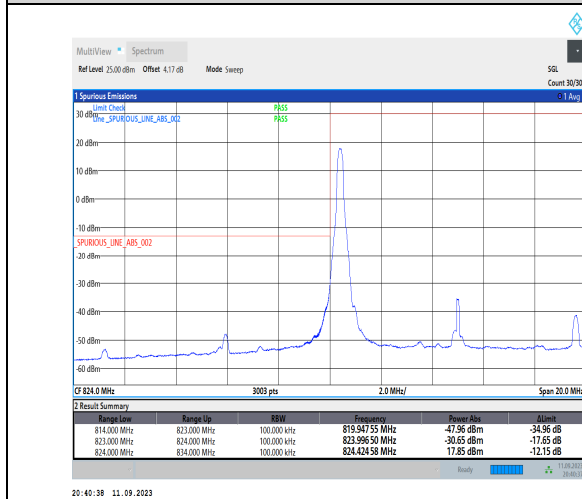
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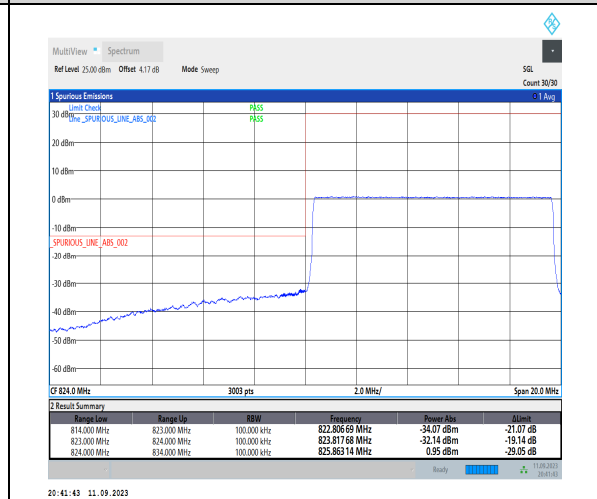
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@0-Ant1-1--PASS-see graph



1-N5-PC3-15-10-L-3-DFT-PI2BPSK-Outer_Full-50
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1-N5-PC3-15-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-
Ant1-1--PASS-see graph

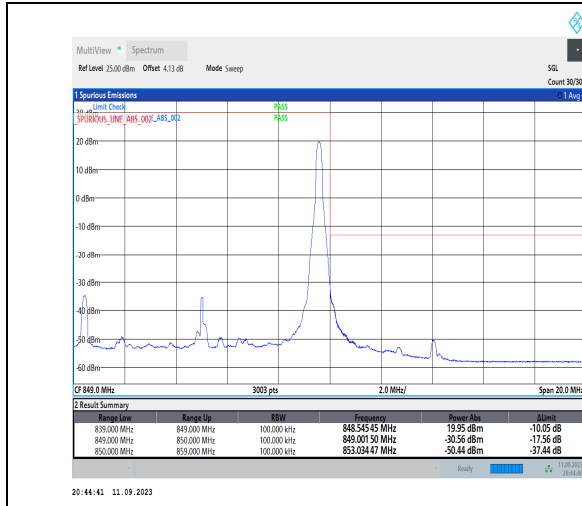


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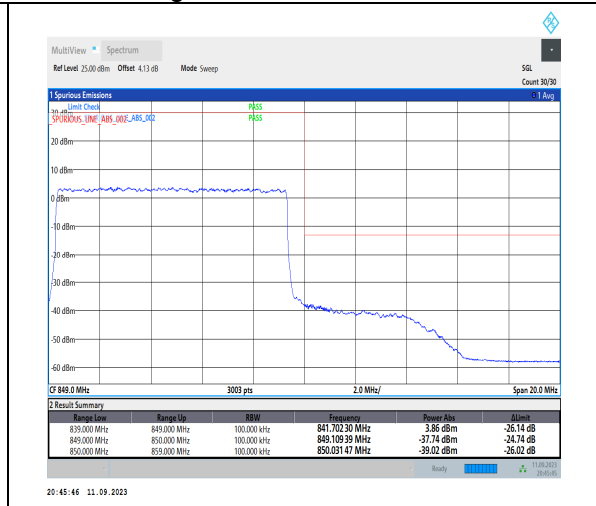


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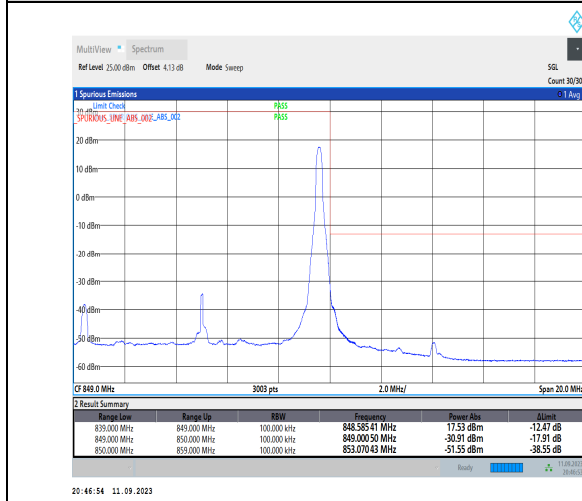
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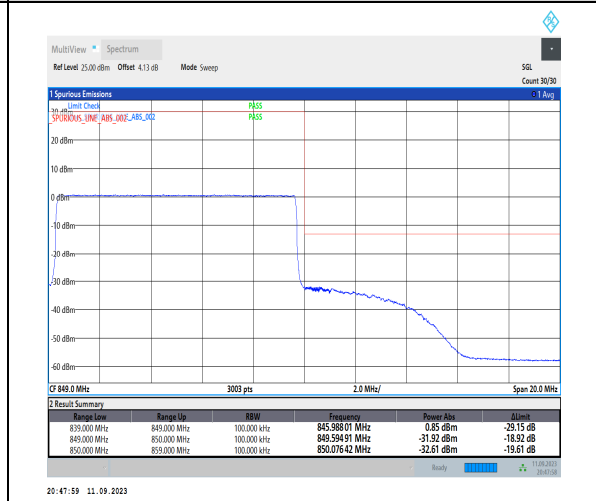
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1-N5-PC3-15-10-H-3-DFT-PI2BPSK-Outer_Full-50@0-Ant1-1--PASS-see graph



1-N5-PC3-15-10-H-5-CP-QPSK-Edge_1RB_Right-1@51-Ant1-1--PASS-see graph

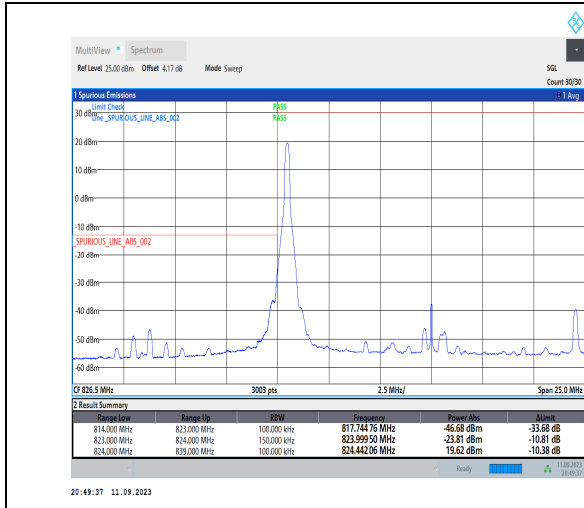


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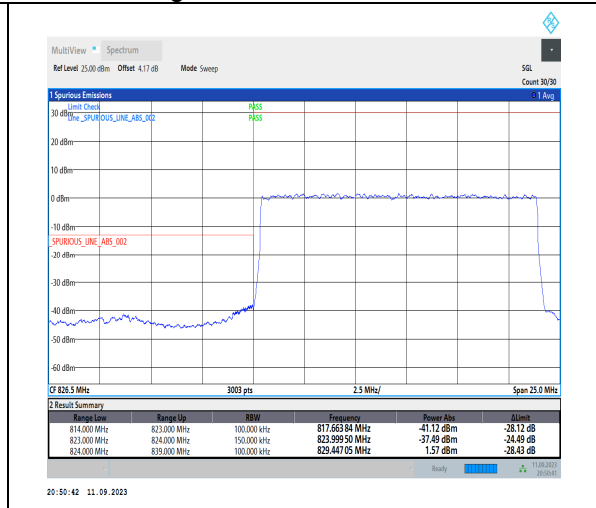


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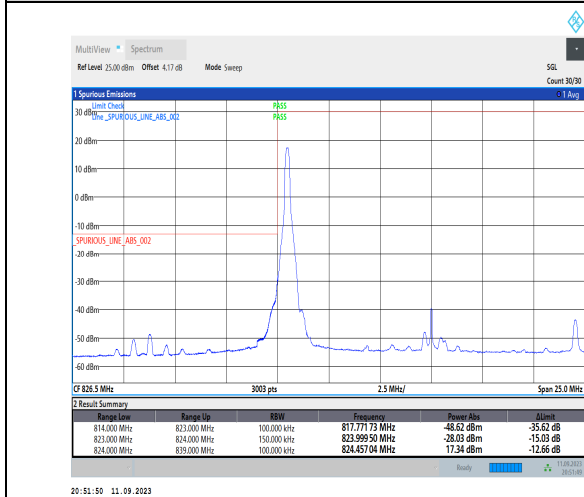
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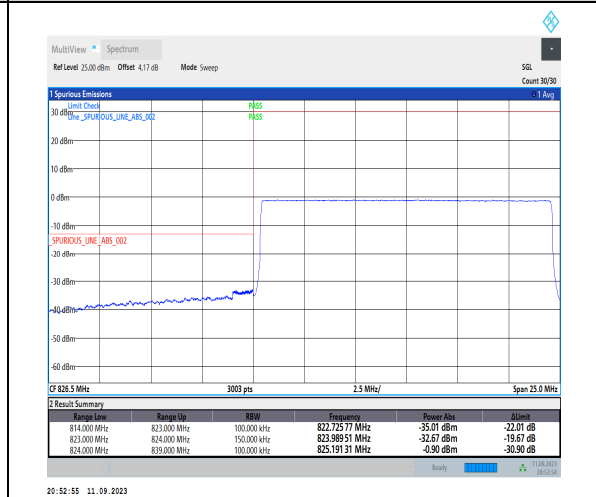
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1-N5-PC3-15-15-L-3-DFT-PI2BPSK-Outer_Full-75
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1-N5-PC3-15-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-
Ant1-1--PASS-see graph

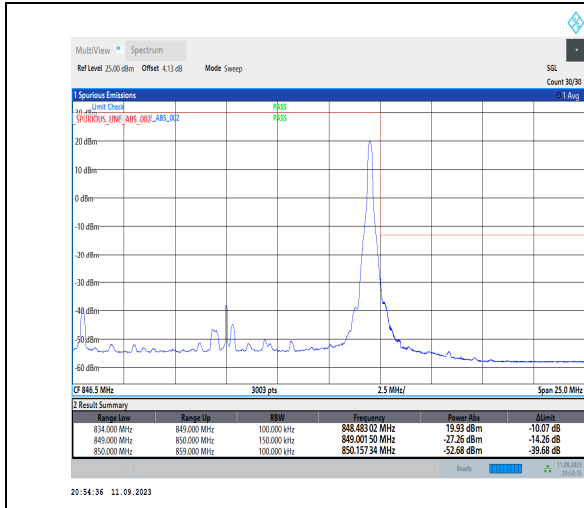


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Ant1-1--PASS-see graph

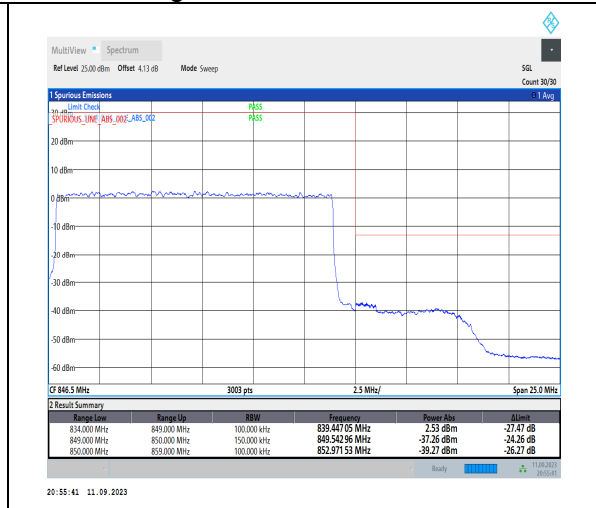


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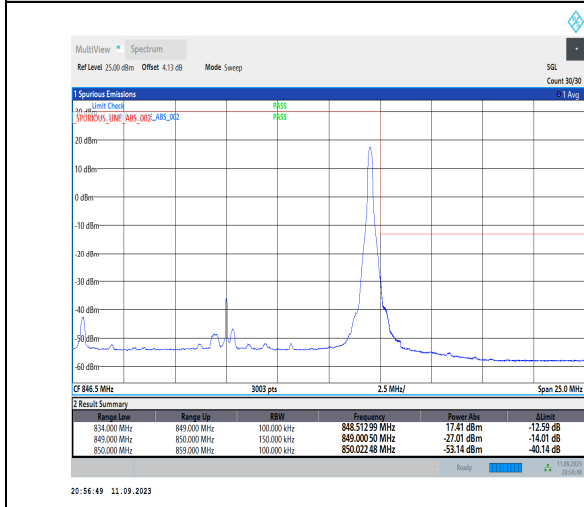
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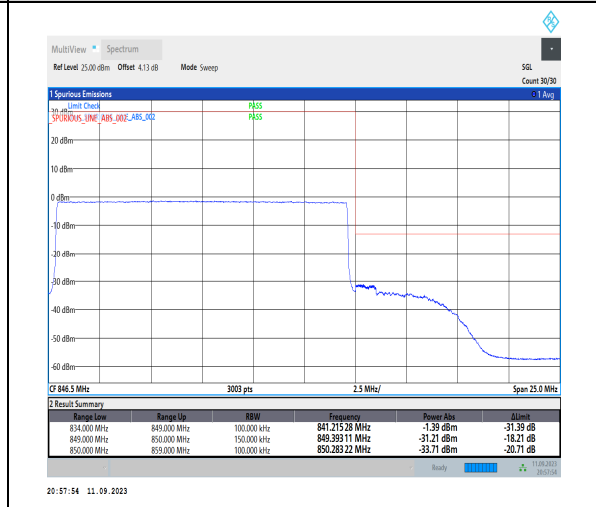
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1-N5-PC3-15-15-H-3-DFT-PI2BPSK-Outer_Full-75@0-Ant1-1--PASS-see graph



1-N5-PC3-15-15-H-5-CP-QPSK-Edge_1RB_Right-1@78-Ant1-1--PASS-see graph

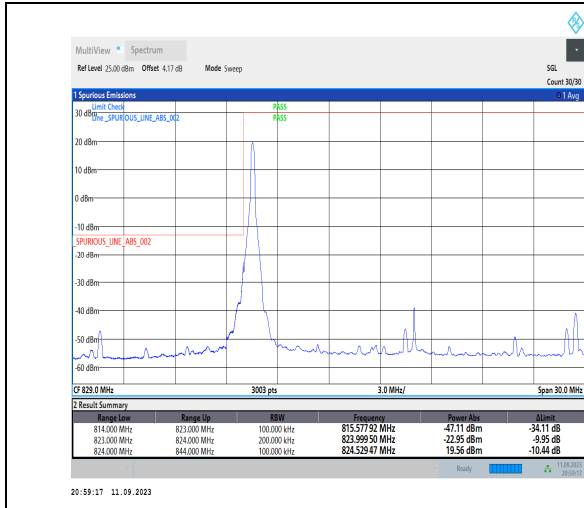


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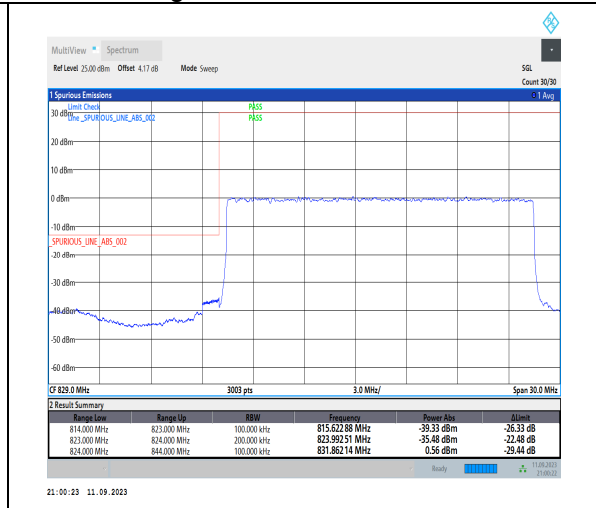


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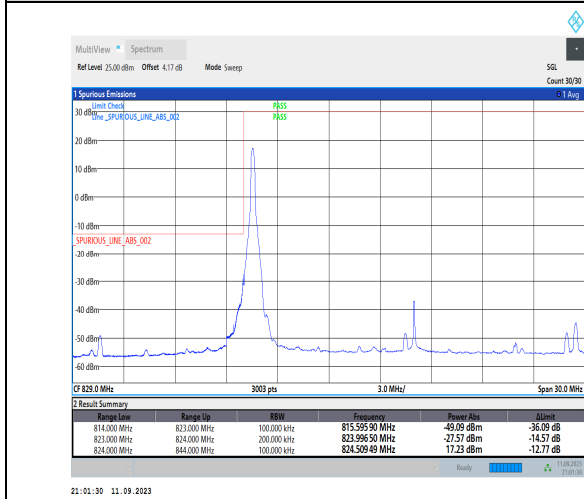
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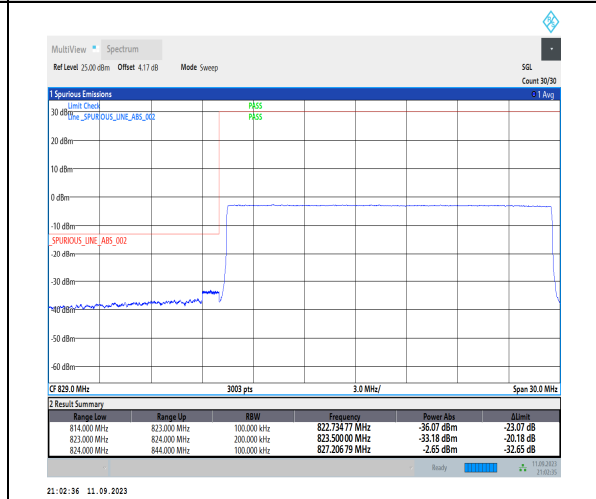
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@0-Ant1-1--PASS-see graph



1-N5-PC3-15-20-L-3-DFT-PI2BPSK-Outer_Full-10
0@0-Ant1-1--PASS-see graph



1-N5-PC3-15-20-L-4-CP-QPSK-Edge_1RB_Left-1@0-
Ant1-1--PASS-see graph

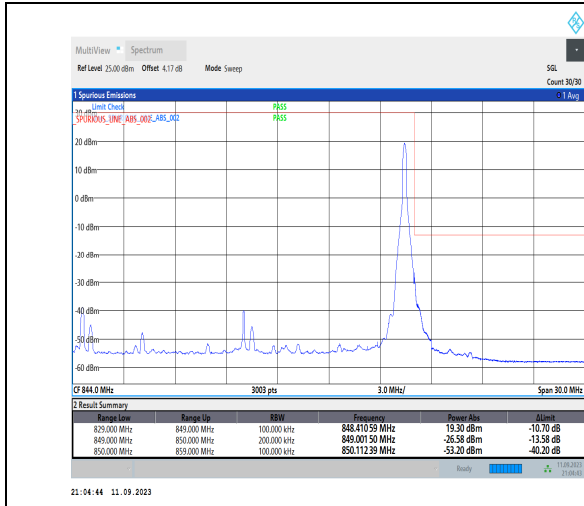


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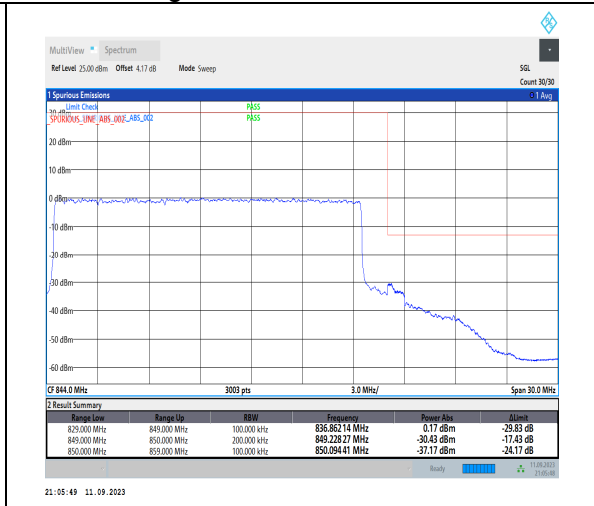


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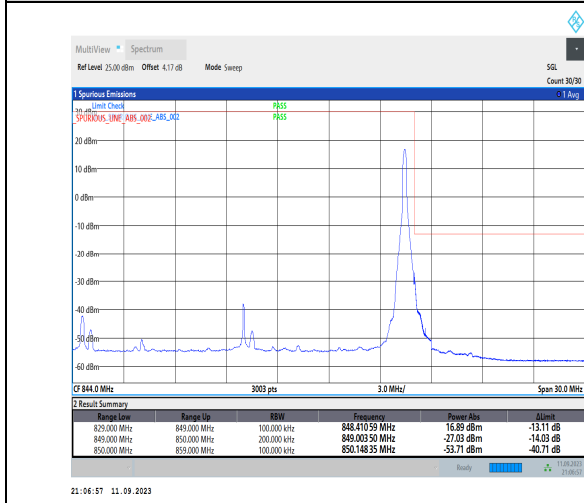
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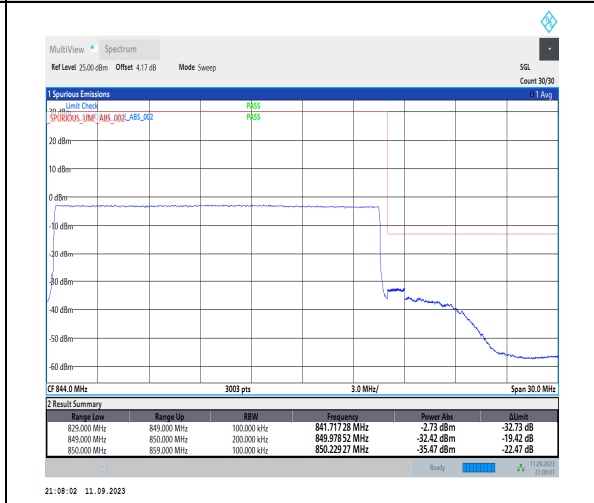
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1-N5-PC3-15-20-H-3-DFT-PI2BPSK-Outer_Full-100@0-Ant1-1--PASS-see graph



1-N5-PC3-15-20-H-5-CP-QPSK-Edge_1RB_Right-1@105-Ant1-1--PASS-see graph



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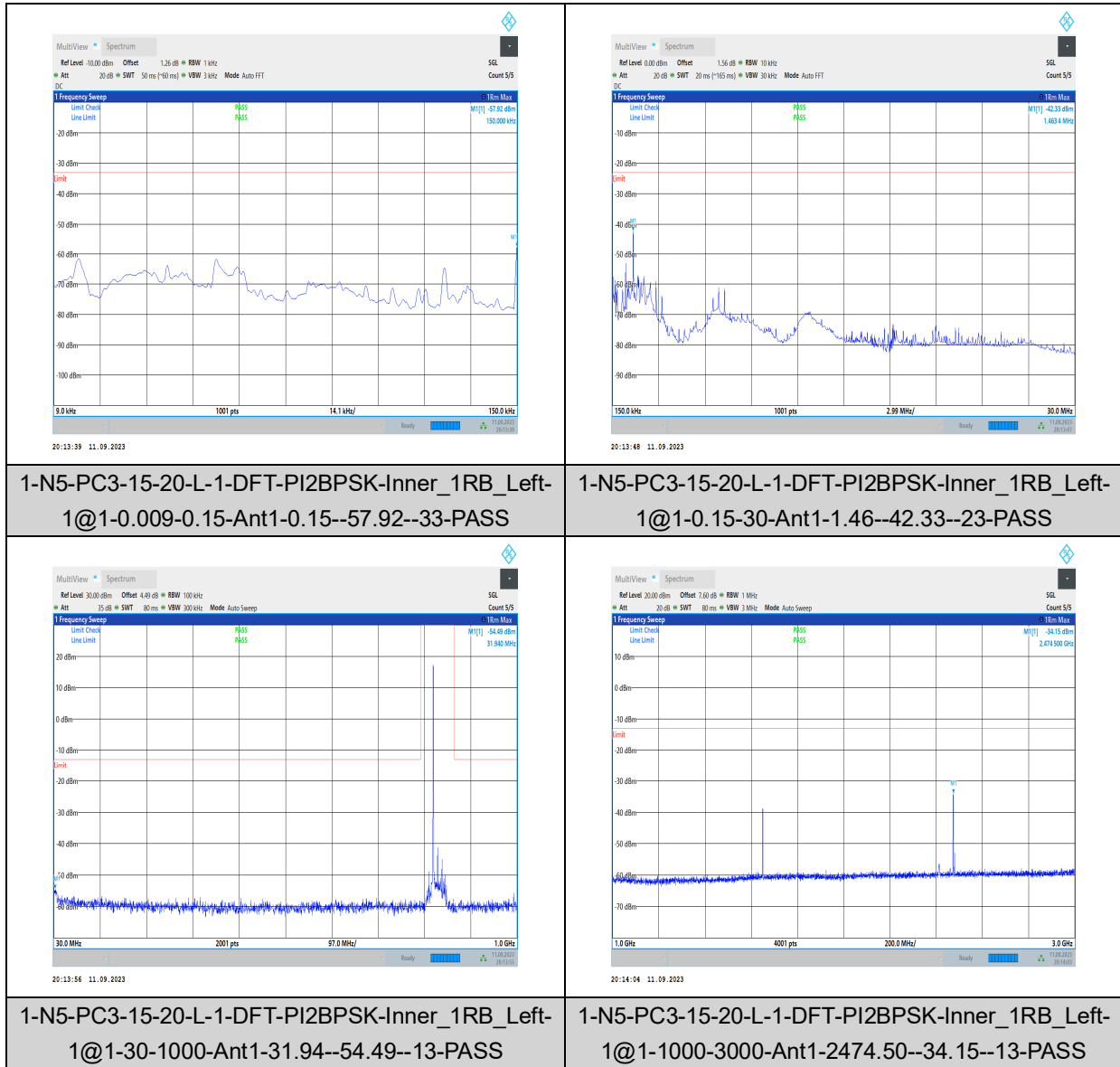


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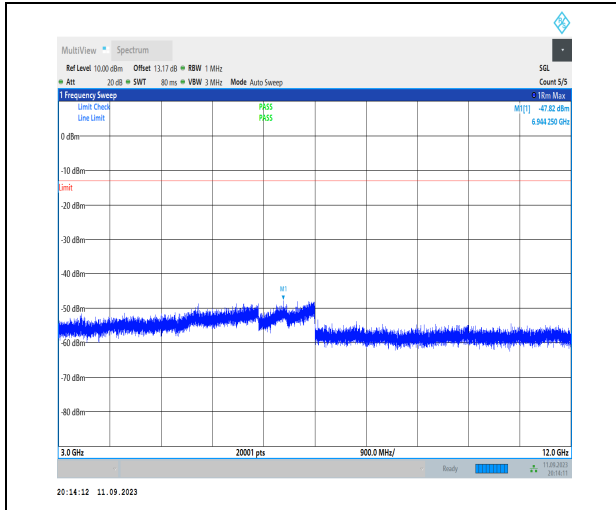
Conducted Spurious Emission for SA

Test Graphs

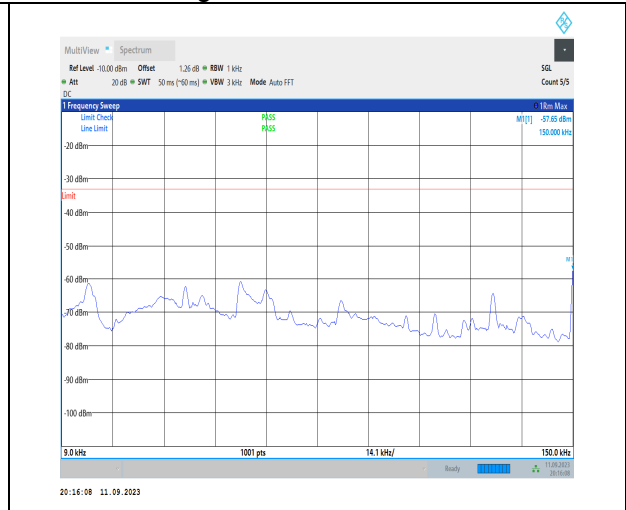


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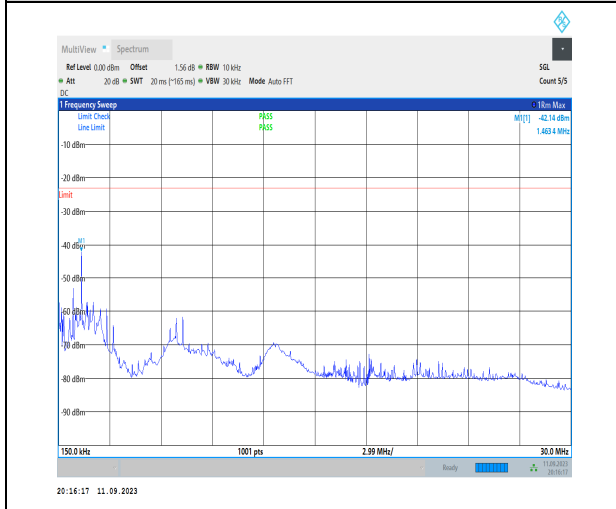
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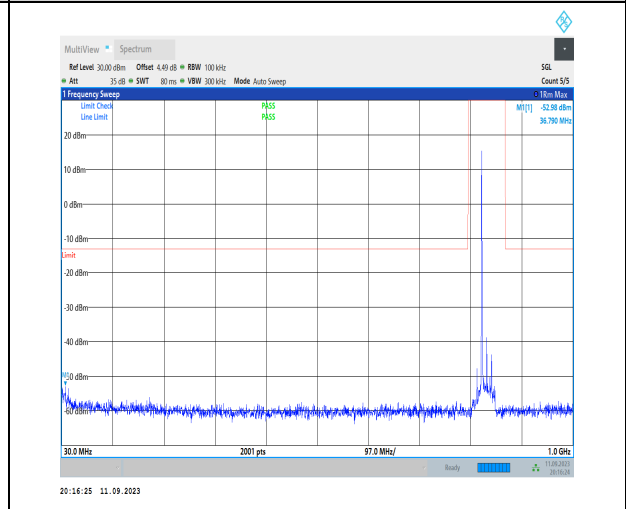
1-N5-PC3-15-20-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant1-6944.25--47.82--13-PASS



1-N5-PC3-15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.15--57.65--33-PASS



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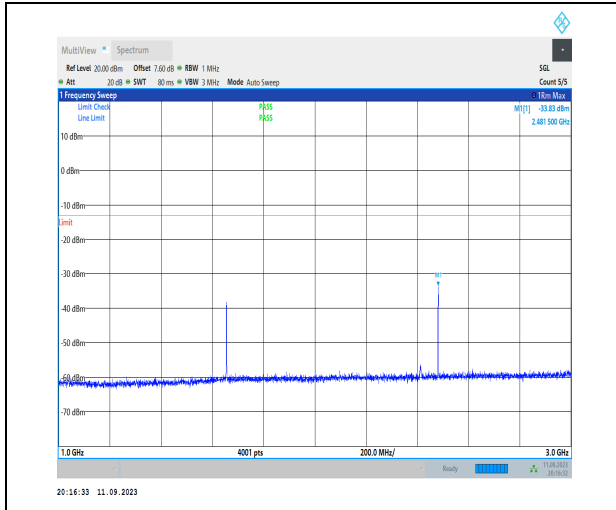


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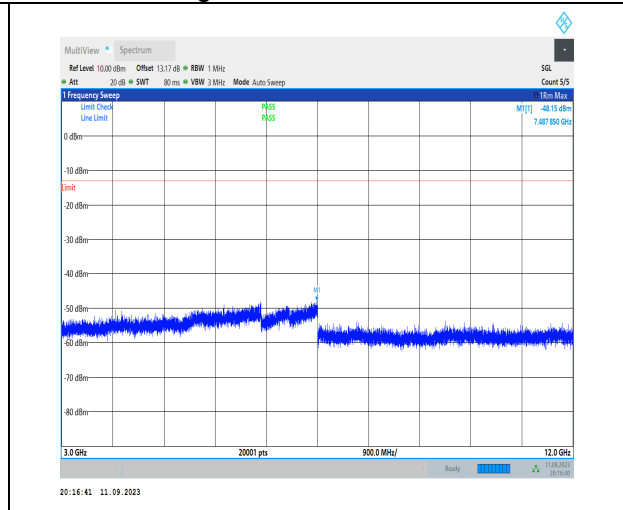


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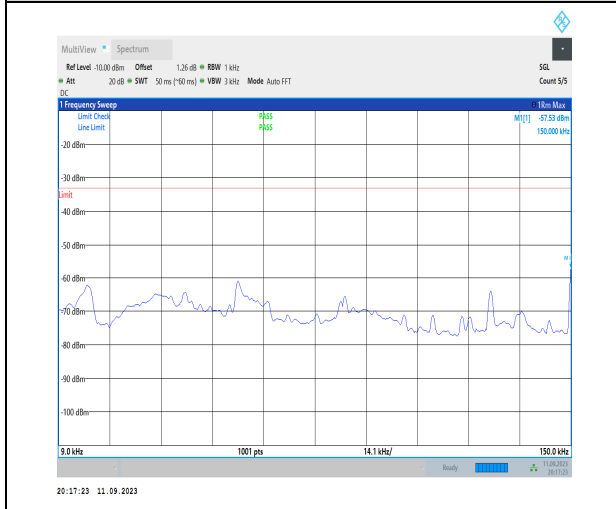
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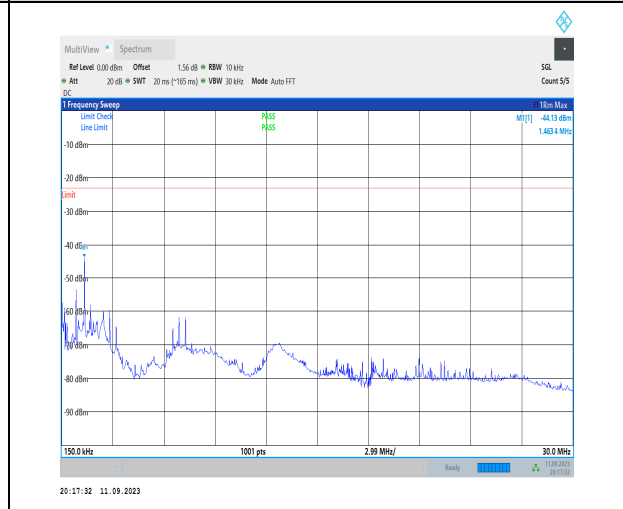
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-1@1-1000-3000-Ant1-2481.50--33.83--13-PASS



1-N5-PC3-15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left
-1@1-3000-12000-Ant1-7487.85--48.15--13-PASS



1-N5-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left
-1@1-0.009-0.15-Ant1-0.15--57.53--33-PASS

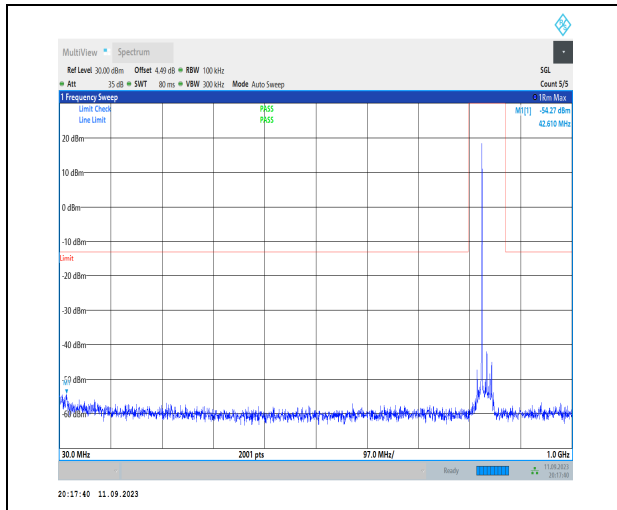


1-N5-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left
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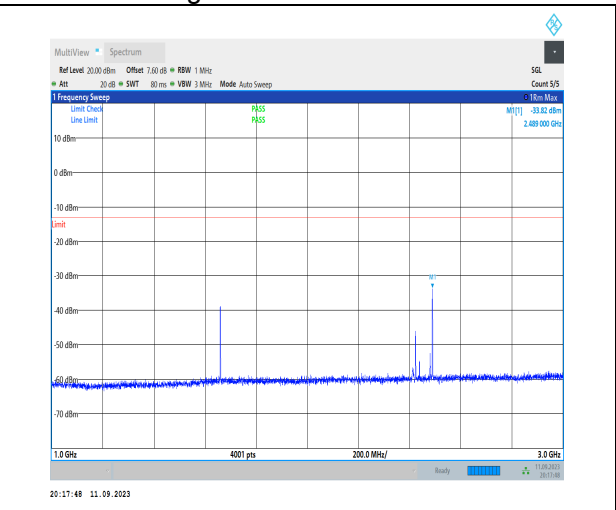


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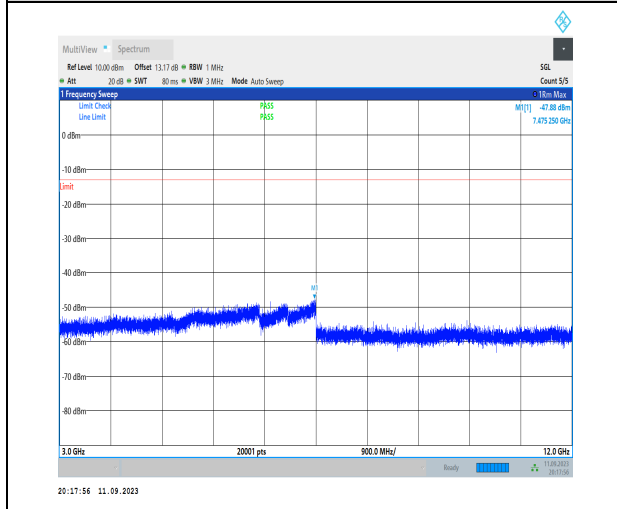
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1-N5-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left
-1@1-30-1000-Ant1-42.61--54.27--13-PASS



1-N5-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left
-1@1-1000-3000-Ant1-2489.00--33.82--13-PASS



1-N5-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left
-1@1-3000-12000-Ant1-7475.25--47.88--13-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band 5_20MHz_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1650.18	46.00	-49.82	25.30	-73.78	-13.00	60.78	Horizontal
2	2475.27	44.78	-49.04	27.27	-72.25	-13.00	59.25	Horizontal
3	3300.36	45.23	-48.63	28.62	-70.04	-13.00	57.04	Horizontal
4	4125.45	43.48	-48.29	29.63	-70.44	-13.00	57.44	Horizontal
5	4950.54	44.62	-48.06	31.38	-67.32	-13.00	54.32	Horizontal
6	5775.63	43.66	-47.67	32.76	-66.51	-13.00	53.51	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1650.18	45.97	-49.82	25.30	-73.81	-13.00	60.81	Vertical
2	2475.27	44.75	-49.04	27.27	-72.28	-13.00	59.28	Vertical
3	3300.36	45.04	-48.63	28.62	-70.23	-13.00	57.23	Vertical
4	4125.45	44.02	-48.29	29.63	-69.90	-13.00	56.90	Vertical
5	4950.54	43.53	-48.06	31.38	-68.41	-13.00	55.41	Vertical
6	5775.63	43.94	-47.67	32.76	-66.23	-13.00	53.23	Vertical



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Test Band = SA Band 5_20MHz_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1655.18	46.10	-49.81	25.32	-73.65	-13.00	60.65	Horizontal
2	2482.77	44.88	-49.00	27.28	-72.10	-13.00	59.10	Horizontal
3	3310.36	45.00	-48.64	28.62	-70.27	-13.00	57.27	Horizontal
4	4137.95	43.49	-48.30	29.65	-70.42	-13.00	57.42	Horizontal
5	4965.54	43.74	-48.03	31.42	-68.13	-13.00	55.13	Horizontal
6	5793.13	43.96	-47.71	32.76	-66.25	-13.00	53.25	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1655.18	46.20	-49.81	25.32	-73.55	-13.00	60.55	Vertical
2	2482.77	44.73	-49.00	27.28	-72.25	-13.00	59.25	Vertical
3	3310.36	45.04	-48.64	28.62	-70.23	-13.00	57.23	Vertical
4	4137.95	43.85	-48.30	29.65	-70.06	-13.00	57.06	Vertical
5	4965.54	43.91	-48.03	31.42	-67.96	-13.00	54.96	Vertical
6	5793.13	43.87	-47.71	32.76	-66.34	-13.00	53.34	Vertical



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Test Band = SA Band 5_20MHz_TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1660.18	46.05	-49.80	25.34	-73.67	-13.00	60.67	Horizontal
2	2490.27	45.93	-48.95	27.29	-71.00	-13.00	58.00	Horizontal
3	3320.36	44.92	-48.64	28.63	-70.35	-13.00	57.35	Horizontal
4	4150.45	43.81	-48.31	29.67	-70.09	-13.00	57.09	Horizontal
5	4980.54	43.66	-48.00	31.45	-68.15	-13.00	55.15	Horizontal
6	5810.63	43.75	-47.65	32.76	-66.39	-13.00	53.39	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1660.18	47.24	-49.80	25.34	-72.48	-13.00	59.48	Vertical
2	2490.27	45.56	-48.95	27.29	-71.37	-13.00	58.37	Vertical
3	3320.36	44.82	-48.64	28.63	-70.45	-13.00	57.45	Vertical
4	4150.45	44.00	-48.31	29.67	-69.90	-13.00	56.90	Vertical
5	4980.54	43.75	-48.00	31.45	-68.06	-13.00	55.06	Vertical
6	5810.63	44.03	-47.65	32.76	-66.11	-13.00	53.11	Vertical



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Test Band = NSA DC_2A_n5A_TM1
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702.18	44.21	-48.50	28.98	-70.57	-13.00	57.57	Horizontal
2	5553.27	43.62	-47.66	32.71	-66.59	-13.00	53.59	Horizontal
3	7404.36	42.87	-46.17	36.57	-61.99	-13.00	48.99	Horizontal
4	9255.45	40.12	-43.17	37.83	-60.48	-13.00	47.48	Horizontal
5	11106.54	37.32	-40.36	39.38	-58.92	-13.00	45.92	Horizontal
6	12957.63	36.86	-39.41	38.63	-59.18	-13.00	46.18	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702.18	44.15	-48.50	28.98	-70.63	-13.00	57.63	Vertical
2	5553.27	43.32	-47.66	32.71	-66.89	-13.00	53.89	Vertical
3	7404.36	42.78	-46.17	36.57	-62.08	-13.00	49.08	Vertical
4	9255.45	39.25	-43.17	37.83	-61.35	-13.00	48.35	Vertical
5	11106.54	37.47	-40.36	39.38	-58.77	-13.00	45.77	Vertical
6	12957.63	36.29	-39.41	38.63	-59.75	-13.00	46.75	Vertical



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Test Band = NSA DC_2A_n5A_TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3742.18	44.82	-48.37	29.04	-69.77	-13.00	56.77	Horizontal
2	5613.27	43.28	-47.67	32.72	-66.93	-13.00	53.93	Horizontal
3	7484.36	41.07	-46.17	36.76	-63.60	-13.00	50.60	Horizontal
4	9355.45	40.61	-42.97	37.92	-59.70	-13.00	46.70	Horizontal
5	11226.54	37.49	-40.37	39.35	-58.79	-13.00	45.79	Horizontal
6	13097.63	36.20	-38.42	38.83	-58.65	-13.00	45.65	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3742.18	44.45	-48.37	29.04	-70.14	-13.00	57.14	Vertical
2	5613.27	43.79	-47.67	32.72	-66.42	-13.00	53.42	Vertical
3	7484.36	41.42	-46.17	36.76	-63.25	-13.00	50.25	Vertical
4	9355.45	40.06	-42.97	37.92	-60.25	-13.00	47.25	Vertical
5	11226.54	36.94	-40.37	39.35	-59.34	-13.00	46.34	Vertical
6	13097.63	36.26	-38.42	38.83	-58.59	-13.00	45.59	Vertical



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Test Band = NSA DC_2A_n5A_TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3782.18	44.69	-48.24	29.10	-69.71	-13.00	56.71	Horizontal
2	5673.27	42.97	-47.55	32.73	-67.10	-13.00	54.10	Horizontal
3	7564.36	40.63	-45.14	36.72	-63.05	-13.00	50.05	Horizontal
4	9455.45	39.08	-42.67	38.01	-60.84	-13.00	47.84	Horizontal
5	11346.54	37.05	-40.28	39.33	-59.16	-13.00	46.16	Horizontal
6	13237.63	36.92	-38.85	39.15	-58.04	-13.00	45.04	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3782.18	44.01	-48.24	29.10	-70.39	-13.00	57.39	Vertical
2	5673.27	43.25	-47.55	32.73	-66.82	-13.00	53.82	Vertical
3	7564.36	40.87	-45.14	36.72	-62.81	-13.00	49.81	Vertical
4	9455.45	39.23	-42.67	38.01	-60.69	-13.00	47.69	Vertical
5	11346.54	37.13	-40.28	39.33	-59.08	-13.00	46.08	Vertical
6	13237.63	36.04	-38.85	39.15	-58.92	-13.00	45.92	Vertical



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Test Band = NSA DC_66A_n5A_TM1
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3404.18	44.44	-48.40	28.66	-70.56	-13.00	57.56	Horizontal
2	5106.27	43.34	-47.82	31.76	-67.99	-13.00	54.99	Horizontal
3	6808.36	43.01	-46.88	35.18	-63.95	-13.00	50.95	Horizontal
4	8510.45	39.86	-44.25	36.92	-62.73	-13.00	49.73	Horizontal
5	10212.54	38.27	-42.01	38.69	-60.31	-13.00	47.31	Horizontal
6	11914.63	36.66	-39.90	39.22	-59.29	-13.00	46.29	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3404.18	43.82	-48.40	28.66	-71.18	-13.00	58.18	Vertical
2	5106.27	43.22	-47.82	31.76	-68.11	-13.00	55.11	Vertical
3	6808.36	43.60	-46.88	35.18	-63.36	-13.00	50.36	Vertical
4	8510.45	40.30	-44.25	36.92	-62.29	-13.00	49.29	Vertical
5	10212.54	37.71	-42.01	38.69	-60.87	-13.00	47.87	Vertical
6	11914.63	37.33	-39.90	39.22	-58.62	-13.00	45.62	Vertical



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Test Band = NSA DC_66A_n5A_TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3454.18	44.43	-48.34	28.68	-70.49	-13.00	57.49	Horizontal
2	5181.27	44.59	-47.88	31.94	-66.61	-13.00	53.61	Horizontal
3	6908.36	42.99	-46.72	35.40	-63.59	-13.00	50.59	Horizontal
4	8635.45	39.64	-44.02	37.09	-62.55	-13.00	49.55	Horizontal
5	10362.54	38.13	-41.21	38.83	-59.51	-13.00	46.51	Horizontal
6	12089.63	36.95	-39.61	39.15	-58.77	-13.00	45.77	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3454.18	44.56	-48.34	28.68	-70.36	-13.00	57.36	Vertical
2	5181.27	43.12	-47.88	31.94	-68.08	-13.00	55.08	Vertical
3	6908.36	43.38	-46.72	35.40	-63.20	-13.00	50.20	Vertical
4	8635.45	39.35	-44.02	37.09	-62.84	-13.00	49.84	Vertical
5	10362.54	38.29	-41.21	38.83	-59.35	-13.00	46.35	Vertical
6	12089.63	36.99	-39.61	39.15	-58.73	-13.00	45.73	Vertical



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Test Band = NSA DC_66A_n5A_TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3504.18	43.83	-48.29	28.71	-71.01	-13.00	58.01	Horizontal
2	5256.27	43.33	-47.83	32.12	-67.64	-13.00	54.64	Horizontal
3	7008.36	42.79	-46.53	35.62	-63.38	-13.00	50.38	Horizontal
4	8760.45	40.46	-44.04	37.27	-61.58	-13.00	48.58	Horizontal
5	10512.54	37.42	-40.73	38.96	-59.61	-13.00	46.61	Horizontal
6	12262.63	37.12	-39.76	39.04	-58.86	-13.00	45.86	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3504.18	44.36	-48.29	28.71	-70.48	-13.00	57.48	Vertical
2	5256.27	43.62	-47.83	32.12	-67.35	-13.00	54.35	Vertical
3	7008.36	43.63	-46.53	35.62	-62.54	-13.00	49.54	Vertical
4	8760.45	40.51	-44.04	37.27	-61.53	-13.00	48.53	Vertical
5	10512.54	37.96	-40.73	38.96	-59.07	-13.00	46.07	Vertical
6	12262.63	37.78	-39.76	39.04	-58.20	-13.00	45.20	Vertical



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Test Band = NSA DC_30A_n5A_TM1
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4610.68	44.58	-48.00	30.57	-68.11	-40.00	28.11	Horizontal
2	6916.02	43.08	-46.71	35.42	-63.47	-40.00	23.47	Horizontal
3	9221.36	39.89	-43.40	37.80	-60.97	-40.00	20.97	Horizontal
4	11526.7	38.18	-39.98	39.29	-57.77	-40.00	17.77	Horizontal
5	13832.04	36.50	-38.92	40.51	-57.16	-40.00	17.16	Horizontal
6	16137.38	36.83	-37.97	38.30	-58.10	-40.00	18.10	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4610.68	44.56	-48.00	30.57	-68.13	-40.00	28.13	Vertical
2	6916.02	42.71	-46.71	35.42	-63.84	-40.00	23.84	Vertical
3	9221.36	40.39	-43.40	37.80	-60.47	-40.00	20.47	Vertical
4	11526.7	37.87	-39.98	39.29	-58.08	-40.00	18.08	Vertical
5	13832.04	36.85	-38.92	40.51	-56.81	-40.00	16.81	Vertical
6	16137.38	36.84	-37.97	38.30	-58.09	-40.00	18.09	Vertical



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Test Band = NSA DC_30A_n5A_TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.68	44.07	-47.99	30.58	-68.61	-40.00	28.61	Horizontal
2	6923.52	44.01	-46.70	35.43	-62.52	-40.00	22.52	Horizontal
3	9231.36	39.95	-43.33	37.81	-60.83	-40.00	20.83	Horizontal
4	11539.2	38.50	-39.95	39.29	-57.41	-40.00	17.41	Horizontal
5	13847.04	36.78	-38.88	40.55	-56.81	-40.00	16.81	Horizontal
6	16154.88	36.90	-37.91	38.31	-57.96	-40.00	17.96	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.68	44.36	-47.99	30.58	-68.32	-40.00	28.32	Vertical
2	6923.52	43.16	-46.70	35.43	-63.37	-40.00	23.37	Vertical
3	9231.36	40.56	-43.33	37.81	-60.22	-40.00	20.22	Vertical
4	11539.2	37.56	-39.95	39.29	-58.35	-40.00	18.35	Vertical
5	13847.04	36.91	-38.88	40.55	-56.68	-40.00	16.68	Vertical
6	16154.88	36.10	-37.91	38.31	-58.76	-40.00	18.76	Vertical



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Test Band = NSA DC_30A_n5A_TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4620.68	43.88	-47.99	30.59	-68.78	-40.00	28.78	Horizontal
2	6931.02	43.31	-46.69	35.45	-63.19	-40.00	23.19	Horizontal
3	9241.32	40.12	-43.27	37.82	-60.59	-40.00	20.59	Horizontal
4	11551.7	38.45	-39.91	39.29	-57.43	-40.00	17.43	Horizontal
5	13862.04	36.96	-38.84	40.58	-56.55	-40.00	16.55	Horizontal
6	16172.38	36.61	-37.85	38.32	-58.18	-40.00	18.18	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4620.68	43.93	-47.99	30.59	-68.73	-40.00	28.73	Vertical
2	6931.02	43.12	-46.69	35.45	-63.38	-40.00	23.38	Vertical
3	9241.32	40.55	-43.27	37.82	-60.16	-40.00	20.16	Vertical
4	11551.7	38.15	-39.91	39.29	-57.73	-40.00	17.73	Vertical
5	13862.04	36.96	-38.84	40.58	-56.55	-40.00	16.55	Vertical
6	16172.38	37.02	-37.85	38.32	-57.77	-40.00	17.77	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) - Pre-amplifier (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)	Limit	Verdict
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VH	NT	-21.800000	-0.026061	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VN	NT	-11.800000	-0.014106	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	-8.300000	-0.009922	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VH	NT	1.600000	0.001913	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VN	NT	2.100000	0.002510	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	VL	NT	-9.800000	-0.011715	±2.5	PASS



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Frequency Error VS. Temperature

Temperature											
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Limit	Verdict
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-30	-14.600000	-0.017454	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	-14.100000	-0.016856	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	-14.900000	-0.017812	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	-13.200000	-0.015780	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	-5.400000	-0.006455	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	-13.600000	-0.016258	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	30	-12.300000	-0.014704	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	40	-12.000000	-0.014345	±2.5	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	-11.900000	-0.014226	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-30	-16.000000	-0.019127	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-20	1.500000	0.001793	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	-10	-6.800000	-0.008129	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	0	-10.500000	-0.012552	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	10	-8.200000	-0.009803	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	20	-9.800000	-0.011715	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	30	-4.500000	-0.005380	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	40	-8.000000	-0.009564	±2.5	PASS
N5	15	20	CP-QPSK	M	Outer_Full	NV	50	4.400000	0.005260	±2.5	PASS

---End of Attachment---



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