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Appendix B.23

NR Band n48



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result ANT5

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (dBm/10MHz)	EIRP (dBm/10MHz)	Limit (dBm/10MHz)	Verdict
N48	30	10	DFT-QPSK	L	Inner_1RB_Left	23.04	22.54	23.00	PASS
N48	30	10	DFT-16QAM	L	Inner_1RB_Left	22.20	21.70	23.00	PASS
N48	30	10	DFT-QPSK	M	Inner_1RB_Left	23.33	22.83	23.00	PASS
N48	30	10	DFT-16QAM	M	Inner_1RB_Left	22.25	21.75	23.00	PASS
N48	30	10	DFT-QPSK	H	Inner_1RB_Left	22.81	22.31	23.00	PASS
N48	30	10	DFT-16QAM	H	Inner_1RB_Left	22.30	21.80	23.00	PASS
N48	30	15	DFT-QPSK	L	Inner_1RB_Left	23.15	22.65	23.00	PASS
N48	30	15	DFT-16QAM	L	Inner_1RB_Left	22.24	21.74	23.00	PASS
N48	30	15	DFT-QPSK	M	Inner_1RB_Left	23.14	22.64	23.00	PASS
N48	30	15	DFT-16QAM	M	Inner_1RB_Left	22.15	21.65	23.00	PASS
N48	30	15	DFT-QPSK	H	Inner_1RB_Left	22.93	22.43	23.00	PASS
N48	30	15	DFT-16QAM	H	Inner_1RB_Left	22.25	21.75	23.00	PASS
N48	30	20	DFT-QPSK	L	Inner_1RB_Left	23.23	22.73	23.00	PASS
N48	30	20	DFT-16QAM	L	Inner_1RB_Left	22.25	21.75	23.00	PASS
N48	30	20	DFT-QPSK	M	Inner_1RB_Left	22.99	22.49	23.00	PASS
N48	30	20	DFT-16QAM	M	Inner_1RB_Left	22.12	21.62	23.00	PASS
N48	30	20	DFT-QPSK	H	Inner_1RB_Left	22.78	22.28	23.00	PASS
N48	30	20	DFT-16QAM	H	Inner_1RB_Left	22.06	21.56	23.00	PASS
N48	30	30	DFT-QPSK	L	Inner_1RB_Left	23.24	22.74	23.00	PASS
N48	30	30	DFT-16QAM	L	Inner_1RB_Left	22.20	21.70	23.00	PASS
N48	30	30	DFT-QPSK	M	Inner_1RB_Left	23.07	22.57	23.00	PASS
N48	30	30	DFT-16QAM	M	Inner_1RB_Left	22.21	21.71	23.00	PASS
N48	30	30	DFT-QPSK	H	Inner_1RB_Left	22.90	22.40	23.00	PASS
N48	30	30	DFT-16QAM	H	Inner_1RB_Left	22.15	21.65	23.00	PASS
N48	30	40	DFT-PI2BPSK	L	Inner_1RB_Left	23.06	22.56	23.00	PASS
N48	30	40	DFT-PI2BPSK	L	Inner_1RB_Right	23.16	22.66	23.00	PASS
N48	30	40	DFT-PI2BPSK	L	Outer_Full	22.74	22.24	23.00	PASS
N48	30	40	DFT-QPSK	L	Inner_1RB_Left	23.49	22.99	23.00	PASS
N48	30	40	DFT-QPSK	L	Inner_1RB_Right	23.12	22.62	23.00	PASS
N48	30	40	DFT-QPSK	L	Outer_Full	22.40	21.90	23.00	PASS
N48	30	40	DFT-16QAM	L	Inner_1RB_Left	22.29	21.79	23.00	PASS



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N48	30	40	DFT-16QAM	L	Inner_1RB_Right	22.26	21.76	23.00	PASS
N48	30	40	DFT-16QAM	L	Outer_Full	21.49	20.99	23.00	PASS
N48	30	40	DFT-64QAM	L	Inner_1RB_Left	20.68	20.18	23.00	PASS
N48	30	40	DFT-64QAM	L	Inner_1RB_Right	20.70	20.20	23.00	PASS
N48	30	40	DFT-64QAM	L	Outer_Full	20.18	19.68	23.00	PASS
N48	30	40	DFT-256QAM	L	Inner_1RB_Left	19.12	18.62	23.00	PASS
N48	30	40	DFT-256QAM	L	Inner_1RB_Right	19.24	18.74	23.00	PASS
N48	30	40	DFT-256QAM	L	Outer_Full	18.65	18.15	23.00	PASS
N48	30	40	DFT-PI2BPSK	M	Inner_1RB_Left	22.74	22.24	23.00	PASS
N48	30	40	DFT-PI2BPSK	M	Inner_1RB_Right	22.89	22.39	23.00	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	22.34	21.84	23.00	PASS
N48	30	40	DFT-QPSK	M	Inner_1RB_Left	23.15	22.65	23.00	PASS
N48	30	40	DFT-QPSK	M	Inner_1RB_Right	22.88	22.38	23.00	PASS
N48	30	40	DFT-QPSK	M	Outer_Full	22.05	21.55	23.00	PASS
N48	30	40	DFT-16QAM	M	Inner_1RB_Left	22.21	21.71	23.00	PASS
N48	30	40	DFT-16QAM	M	Inner_1RB_Right	22.11	21.61	23.00	PASS
N48	30	40	DFT-16QAM	M	Outer_Full	21.18	20.68	23.00	PASS
N48	30	40	DFT-64QAM	M	Inner_1RB_Left	20.44	19.94	23.00	PASS
N48	30	40	DFT-64QAM	M	Inner_1RB_Right	20.46	19.96	23.00	PASS
N48	30	40	DFT-64QAM	M	Outer_Full	19.91	19.41	23.00	PASS
N48	30	40	DFT-256QAM	M	Inner_1RB_Left	18.84	18.34	23.00	PASS
N48	30	40	DFT-256QAM	M	Inner_1RB_Right	18.85	18.35	23.00	PASS
N48	30	40	DFT-256QAM	M	Outer_Full	18.61	18.11	23.00	PASS
N48	30	40	DFT-PI2BPSK	H	Inner_1RB_Left	22.8	22.3	23.00	PASS
N48	30	40	DFT-PI2BPSK	H	Inner_1RB_Right	22.81	22.31	23.00	PASS
N48	30	40	DFT-PI2BPSK	H	Outer_Full	22.43	21.93	23.00	PASS
N48	30	40	DFT-QPSK	H	Inner_1RB_Left	23.15	22.65	23.00	PASS
N48	30	40	DFT-QPSK	H	Inner_1RB_Right	22.72	22.22	23.00	PASS
N48	30	40	DFT-QPSK	H	Outer_Full	22.07	21.57	23.00	PASS
N48	30	40	DFT-16QAM	H	Inner_1RB_Left	22.08	21.58	23.00	PASS
N48	30	40	DFT-16QAM	H	Inner_1RB_Right	22.17	21.67	23.00	PASS
N48	30	40	DFT-16QAM	H	Outer_Full	21.12	20.62	23.00	PASS
N48	30	40	DFT-64QAM	H	Inner_1RB_Left	20.36	19.86	23.00	PASS
N48	30	40	DFT-64QAM	H	Inner_1RB_Right	20.4	19.9	23.00	PASS
N48	30	40	DFT-64QAM	H	Outer_Full	19.95	19.45	23.00	PASS
N48	30	40	DFT-256QAM	H	Inner_1RB_Left	18.79	18.29	23.00	PASS
N48	30	40	DFT-256QAM	H	Inner_1RB_Right	18.89	18.39	23.00	PASS
N48	30	40	DFT-256QAM	H	Outer_Full	18.54	18.04	23.00	PASS



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Peak-to-Average Ratio for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N48	30	40	DFT-256QAM	L	Outer_Full	9.31	≤13	PASS
N48	30	40	CP-256QAM	L	Outer_Full	9.98	≤13	PASS
N48	30	40	DFT-256QAM	M	Outer_Full	9.71	≤13	PASS
N48	30	40	CP-256QAM	M	Outer_Full	9.70	≤13	PASS
N48	30	40	DFT-256QAM	H	Outer_Full	9.23	≤13	PASS
N48	30	40	CP-256QAM	H	Outer_Full	9.65	≤13	PASS



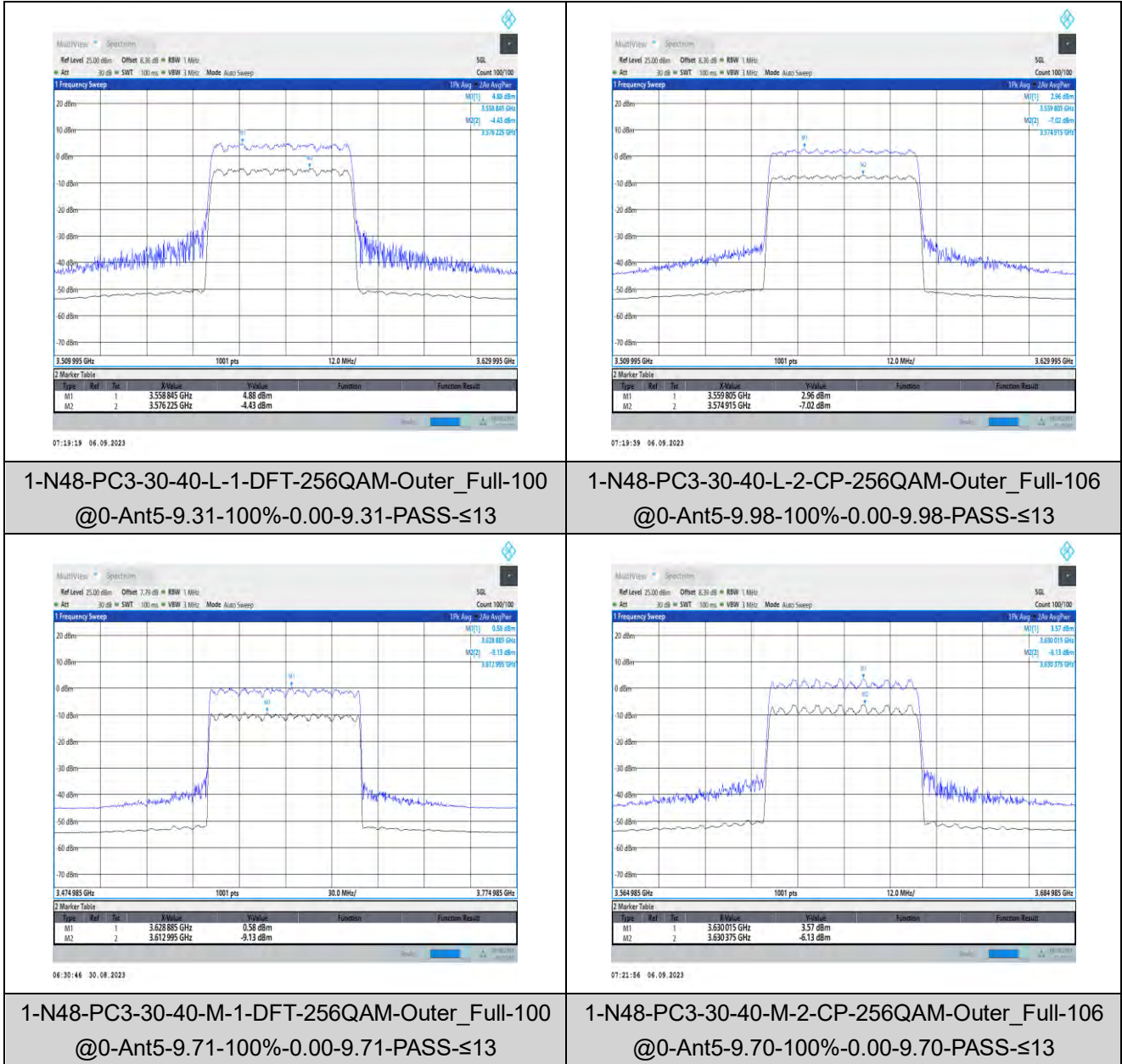
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Test Graphs



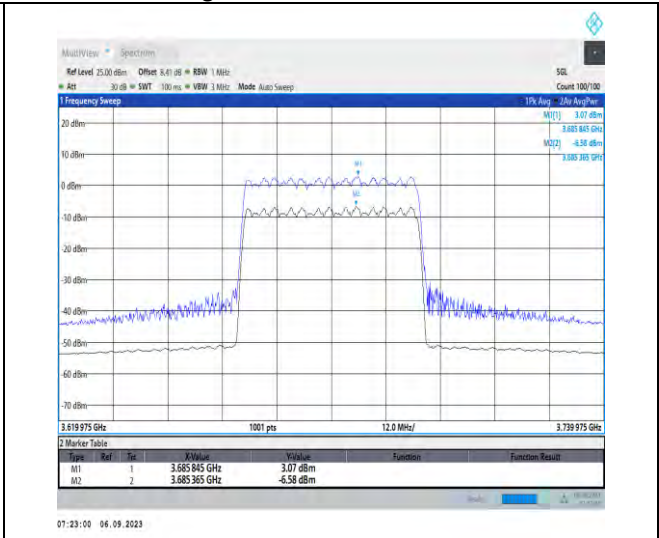
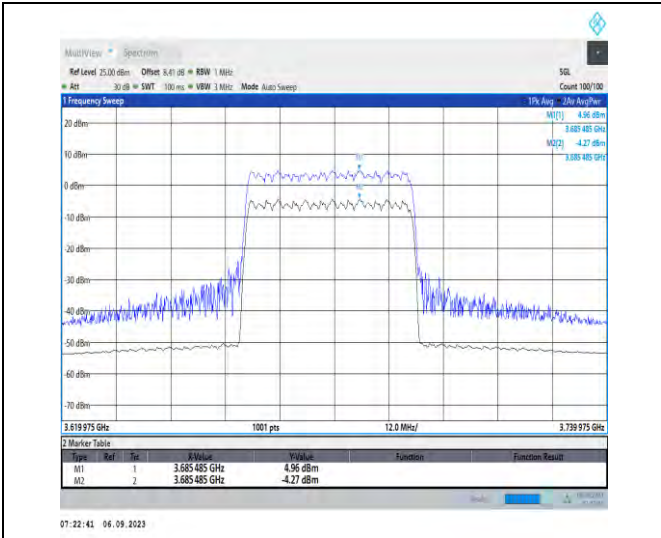
1-N48-PC3-30-40-L-1-DFT-256QAM-Outer_Full-100 @0-Ant5-9.31-100%-0.00-9.31-PASS-≤13

1-N48-PC3-30-40-L-2-CP-256QAM-Outer_Full-106 @0-Ant5-9.98-100%-0.00-9.98-PASS-≤13

1-N48-PC3-30-40-M-1-DFT-256QAM-Outer_Full-100 @0-Ant5-9.71-100%-0.00-9.71-PASS-≤13

1-N48-PC3-30-40-M-2-CP-256QAM-Outer_Full-106 @0-Ant5-9.70-100%-0.00-9.70-PASS-≤13





1-N48-PC3-30-40-H-1-DFT-256QAM-Outer_Full-100
@0-Ant5-9.23-100%-0.00-9.23-PASS-≤13

1-N48-PC3-30-40-H-2-CP-256QAM-Outer_Full-106
@0-Ant5-9.65-100%-0.00-9.65-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
N48	30	10	DFT-QPSK	M	Outer_Full	8.58	9.180	PASS
N48	30	10	DFT-PI2BPSK	M	Outer_Full	8.566	9.020	PASS
N48	30	10	DFT-16QAM	M	Outer_Full	8.542	9.160	PASS
N48	30	10	DFT-64QAM	M	Outer_Full	8.56	9.320	PASS
N48	30	10	DFT-256QAM	M	Outer_Full	8.587	9.420	PASS
N48	30	10	CP-QPSK	M	Outer_Full	8.532	9.140	PASS
N48	30	10	CP-16QAM	M	Outer_Full	8.588	9.140	PASS
N48	30	10	CP-64QAM	M	Outer_Full	8.595	9.160	PASS
N48	30	10	CP-256QAM	M	Outer_Full	8.586	9.080	PASS
N48	30	15	DFT-QPSK	M	Outer_Full	12.898	13.530	PASS
N48	30	15	DFT-PI2BPSK	M	Outer_Full	12.847	13.770	PASS
N48	30	15	DFT-16QAM	M	Outer_Full	12.843	13.590	PASS
N48	30	15	DFT-64QAM	M	Outer_Full	12.851	14.010	PASS
N48	30	15	DFT-256QAM	M	Outer_Full	12.813	13.590	PASS
N48	30	15	CP-QPSK	M	Outer_Full	13.598	14.250	PASS
N48	30	15	CP-16QAM	M	Outer_Full	13.58	14.430	PASS
N48	30	15	CP-64QAM	M	Outer_Full	13.567	14.490	PASS
N48	30	15	CP-256QAM	M	Outer_Full	13.633	14.370	PASS
N48	30	20	DFT-QPSK	M	Outer_Full	17.835	18.680	PASS
N48	30	20	DFT-PI2BPSK	M	Outer_Full	17.75	18.760	PASS
N48	30	20	DFT-16QAM	M	Outer_Full	17.791	19.160	PASS
N48	30	20	DFT-64QAM	M	Outer_Full	17.811	18.800	PASS
N48	30	20	DFT-256QAM	M	Outer_Full	17.822	18.680	PASS
N48	30	20	CP-QPSK	M	Outer_Full	18.23	19.000	PASS
N48	30	20	CP-16QAM	M	Outer_Full	18.208	19.040	PASS
N48	30	20	CP-64QAM	M	Outer_Full	18.182	18.960	PASS
N48	30	20	CP-256QAM	M	Outer_Full	18.186	19.400	PASS
N48	30	30	DFT-QPSK	M	Outer_Full	26.766	28.140	PASS
N48	30	30	DFT-PI2BPSK	M	Outer_Full	26.775	27.960	PASS
N48	30	30	DFT-16QAM	M	Outer_Full	26.797	28.140	PASS



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N48	30	30	DFT-64QAM	M	Outer_Full	26.789	28.140	PASS
N48	30	30	DFT-256QAM	M	Outer_Full	26.814	27.900	PASS
N48	30	30	CP-QPSK	M	Outer_Full	27.822	29.760	PASS
N48	30	30	CP-16QAM	M	Outer_Full	27.873	28.980	PASS
N48	30	30	CP-64QAM	M	Outer_Full	27.85	29.160	PASS
N48	30	30	CP-256QAM	M	Outer_Full	27.821	29.040	PASS
N48	30	40	DFT-QPSK	M	Outer_Full	35.626	37.440	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	35.749	37.360	PASS
N48	30	40	DFT-16QAM	M	Outer_Full	35.789	37.440	PASS
N48	30	40	DFT-64QAM	M	Outer_Full	35.705	37.440	PASS
N48	30	40	DFT-256QAM	M	Outer_Full	35.781	37.440	PASS
N48	30	40	CP-QPSK	M	Outer_Full	37.789	39.440	PASS
N48	30	40	CP-16QAM	M	Outer_Full	37.864	39.360	PASS
N48	30	40	CP-64QAM	M	Outer_Full	37.88	39.680	PASS
N48	30	40	CP-256QAM	M	Outer_Full	37.765	39.360	PASS

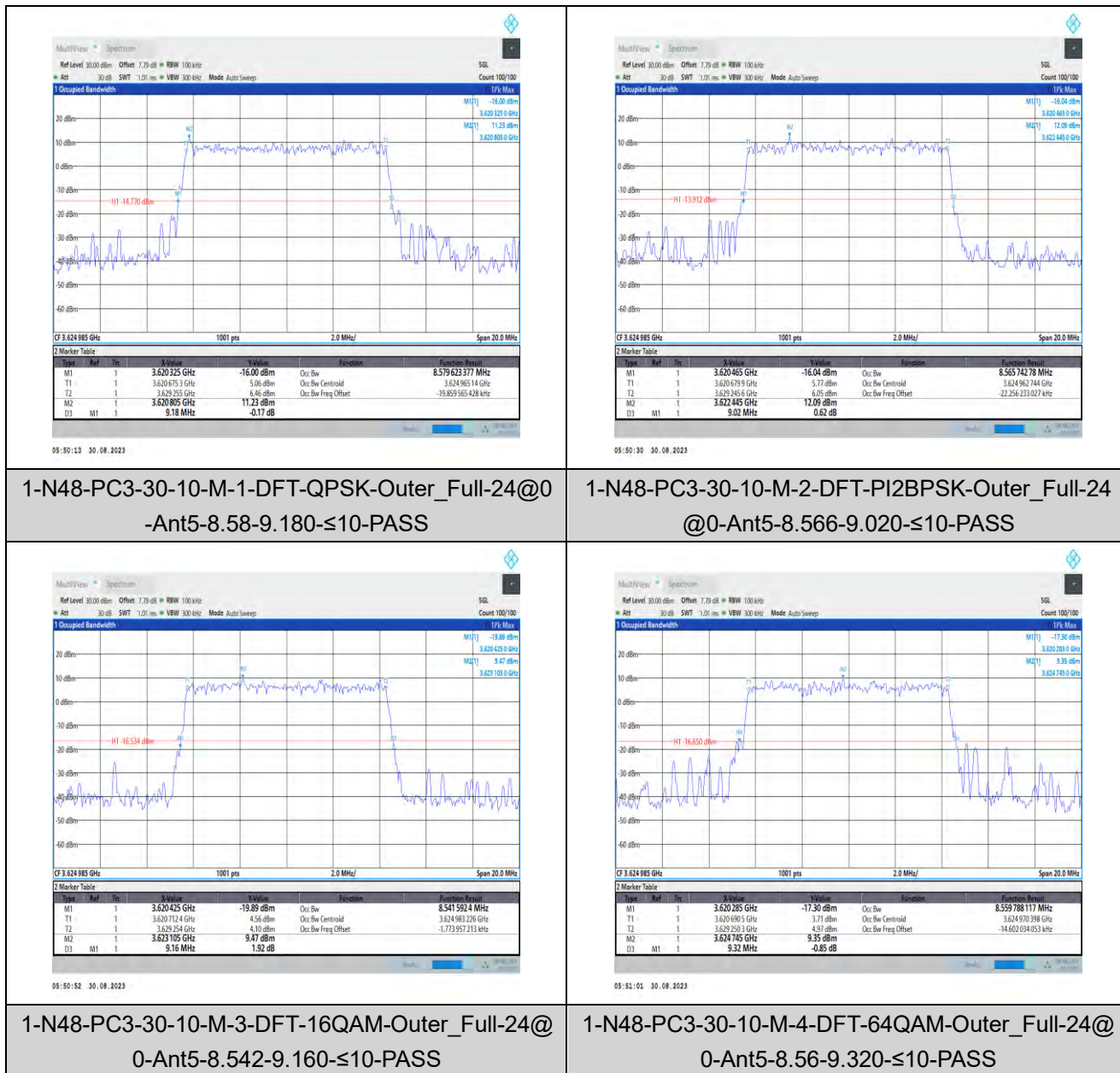


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Test Graphs



1-N48-PC3-30-10-M-1-DFT-QPSK-Outer_Full-24@0-Ant5-8.58-9.180-≤10-PASS

1-N48-PC3-30-10-M-2-DFT-PI2BPSK-Outer_Full-24@0-Ant5-8.566-9.020-≤10-PASS

1-N48-PC3-30-10-M-3-DFT-16QAM-Outer_Full-24@0-Ant5-8.542-9.160-≤10-PASS

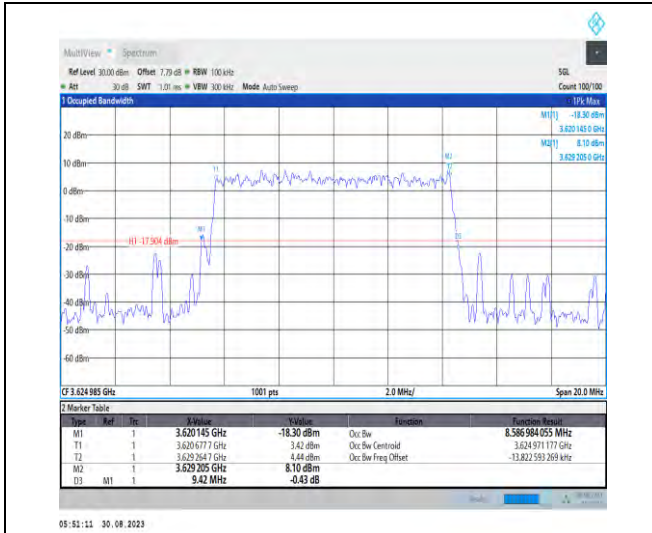
1-N48-PC3-30-10-M-4-DFT-64QAM-Outer_Full-24@0-Ant5-8.56-9.320-≤10-PASS



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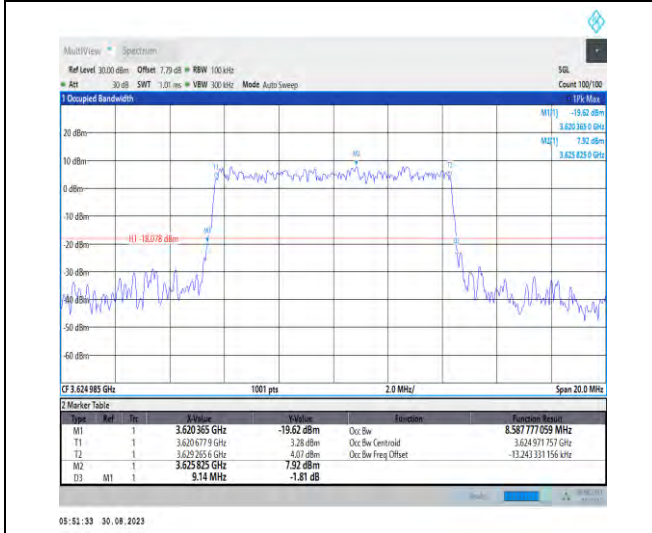
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1-N48-PC3-30-10-M-5-DFT-256QAM-Outer_Full-24@0-Ant5-8.587-9.420-≤10-PASS



1-N48-PC3-30-10-M-6-CP-QPSK-Outer_Full-24@0-Ant5-8.532-9.140-≤10-PASS



1-N48-PC3-30-10-M-7-CP-16QAM-Outer_Full-24@0-Ant5-8.588-9.140-≤10-PASS



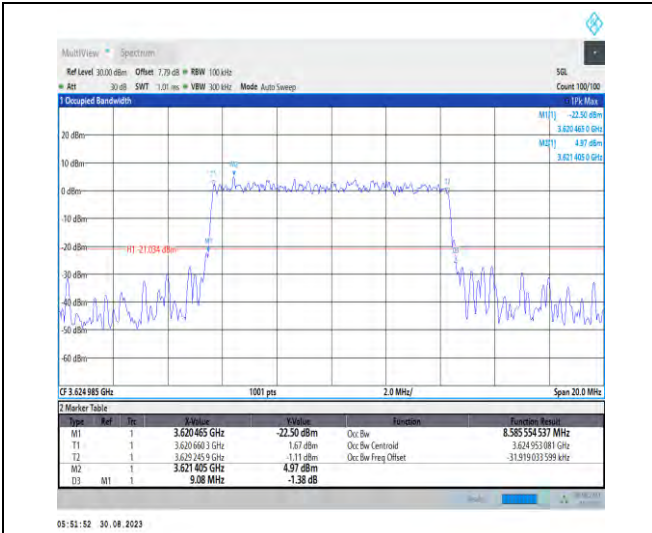
1-N48-PC3-30-10-M-8-CP-64QAM-Outer_Full-24@0-Ant5-8.595-9.160-≤10-PASS



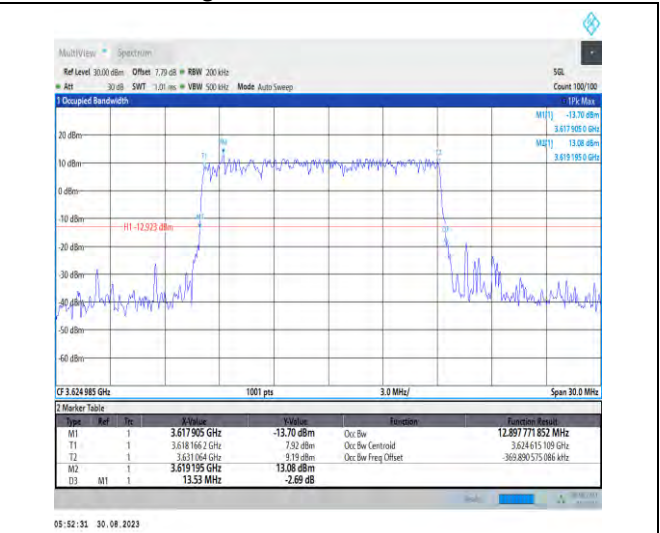
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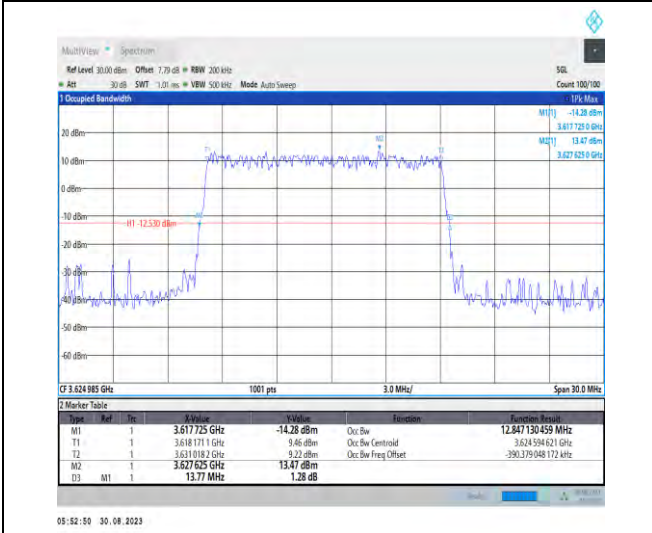
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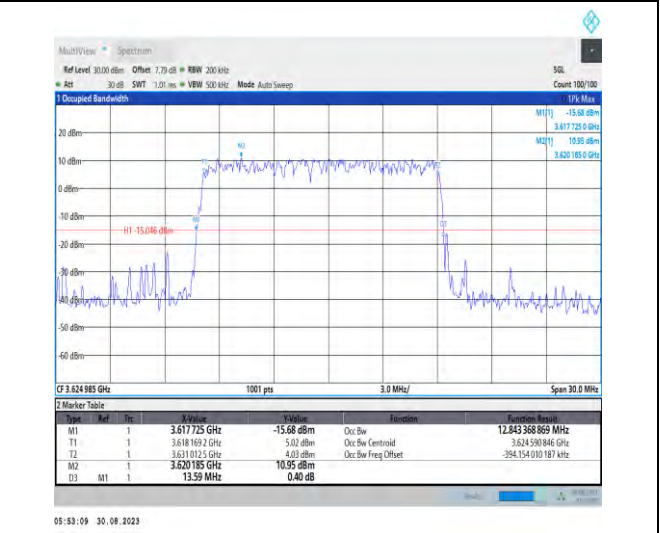
1-N48-PC3-30-10-M-9-CP-256QAM-Outer_Full-24@
0-Ant5-8.586-9.080-≤10-PASS



1-N48-PC3-30-15-M-1-DFT-QPSK-Outer_Full-36@
-Ant5-12.898-13.530-≤15-PASS



1-N48-PC3-30-15-M-2-DFT-PI2BPSK-Outer_Full-36@
@0-Ant5-12.847-13.770-≤15-PASS



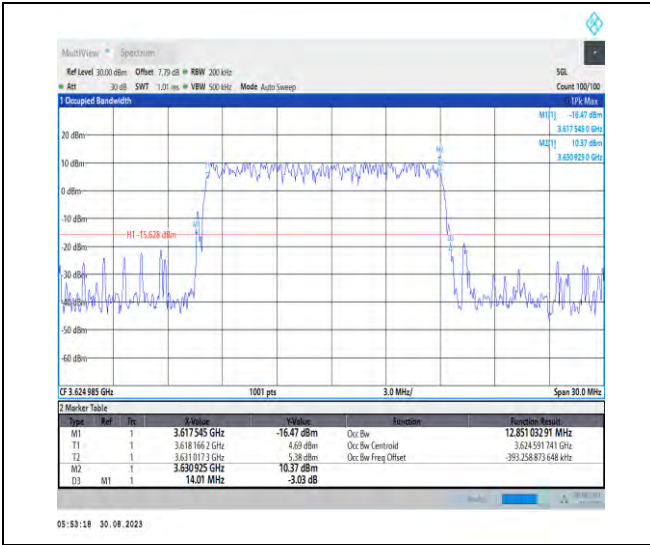
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0-Ant5-12.843-13.590-≤15-PASS



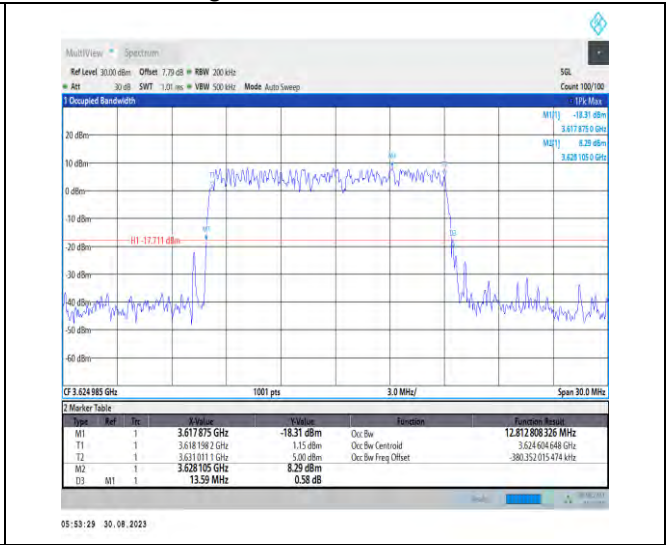
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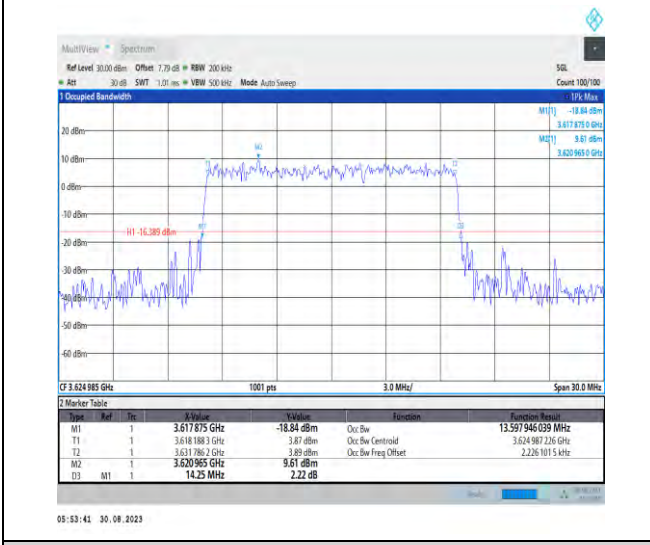
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1-N48-PC3-30-15-M-4-DFT-64QAM-Outer_Full-36@
0-Ant5-12.851-14.010-≤15-PASS



1-N48-PC3-30-15-M-5-DFT-256QAM-Outer_Full-36@
0-Ant5-12.813-13.590-≤15-PASS



1-N48-PC3-30-15-M-6-CP-QPSK-Outer_Full-38@0-
Ant5-13.598-14.250-≤15-PASS



1-N48-PC3-30-15-M-7-CP-16QAM-Outer_Full-38@0-
Ant5-13.58-14.430-≤15-PASS

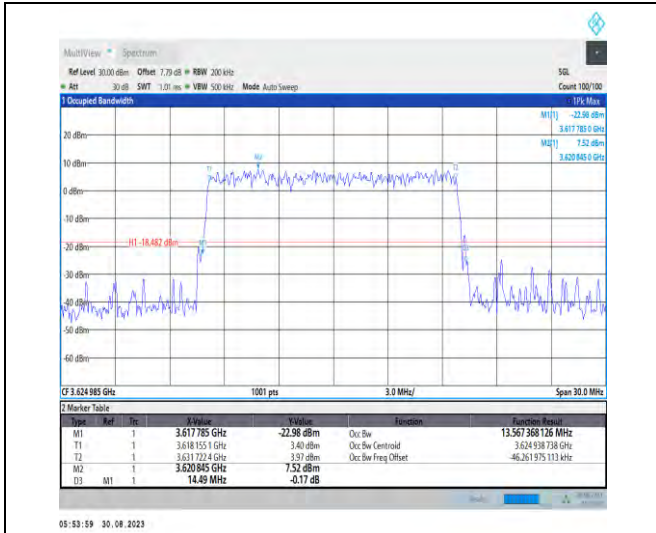


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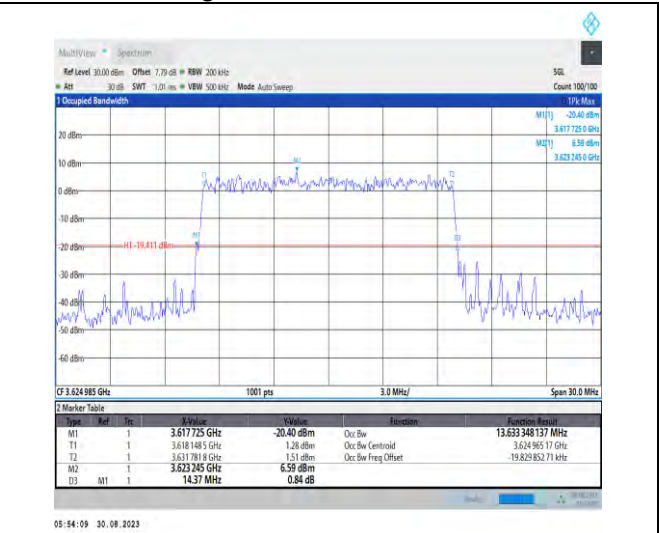
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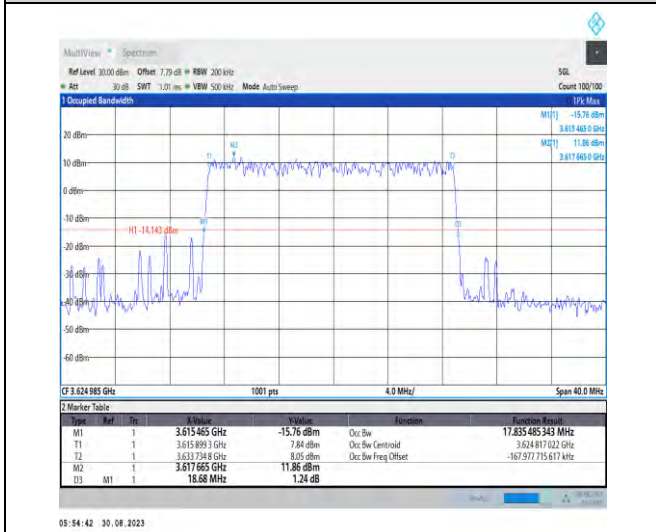
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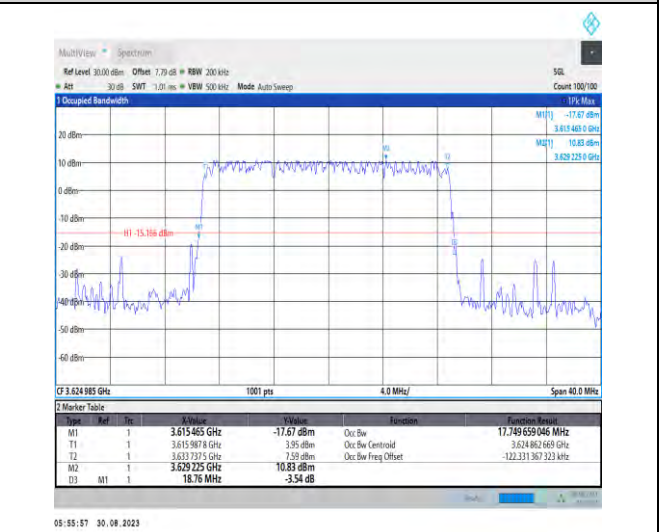
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-Ant5-13.567-14.490-≤15-PASS



1-N48-PC3-30-15-M-9-CP-256QAM-Outer_Full-38@0-Ant5-13.633-14.370-≤15-PASS



1-N48-PC3-30-20-M-1-DFT-QPSK-Outer_Full-50@0
-Ant5-17.835-18.680-≤20-PASS



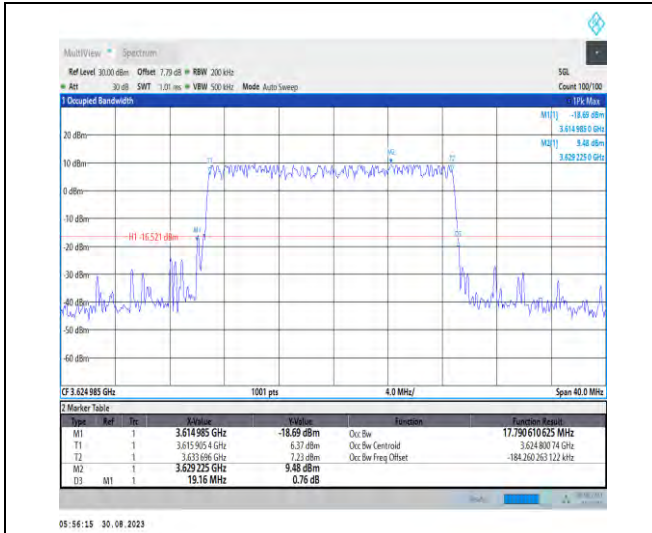
1-N48-PC3-30-20-M-2-DFT-PI2BPSK-Outer_Full-50@0-Ant5-17.75-18.760-≤20-PASS



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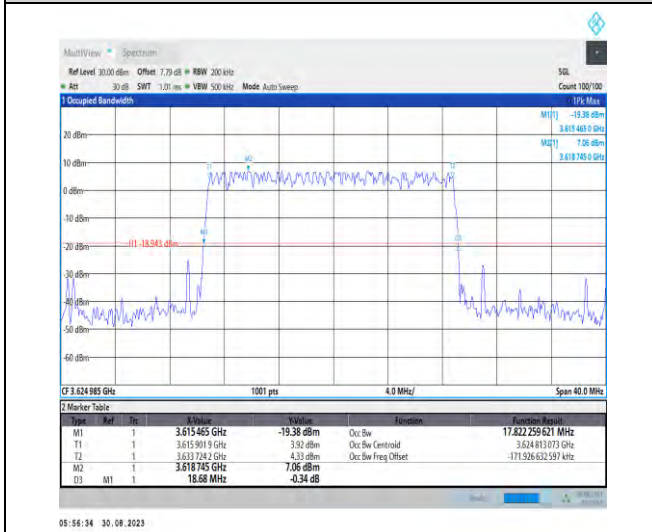
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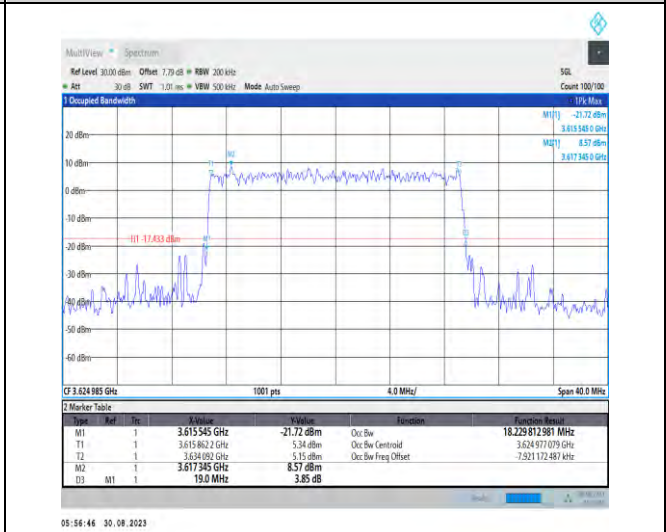
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0-Ant5-17.791-19.160-≤20-PASS



1-N48-PC3-30-20-M-4-DFT-64QAM-Outer_Full-50@
0-Ant5-17.811-18.800-≤20-PASS



1-N48-PC3-30-20-M-5-DFT-256QAM-Outer_Full-50@
0-Ant5-17.822-18.680-≤20-PASS



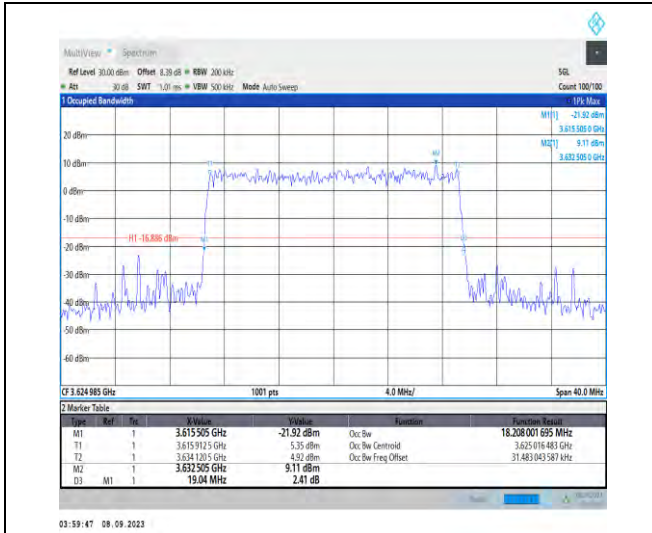
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Ant5-18.23-19.000-≤20-PASS



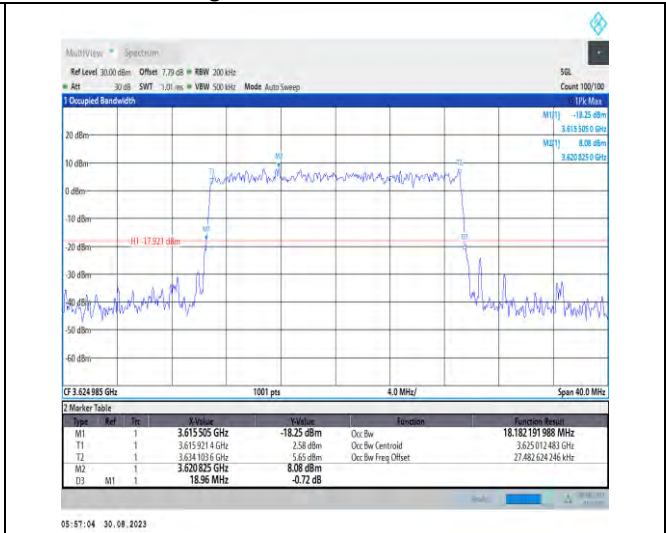
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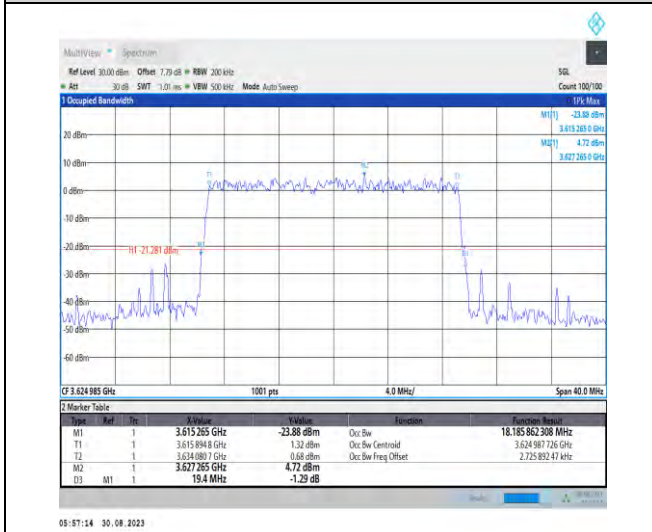
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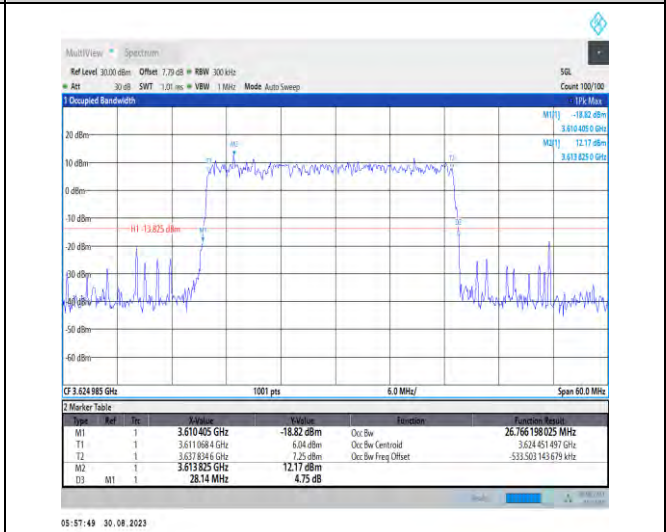
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-Ant5-18.208-19.04-<20-PASS



1-N48-PC3-30-20-M-8-CP-64QAM-Outer_Full-51@0
-Ant5-18.182-18.960-<20-PASS



1-N48-PC3-30-20-M-9-CP-256QAM-Outer_Full-51@0
0-Ant5-18.186-19.400-<20-PASS



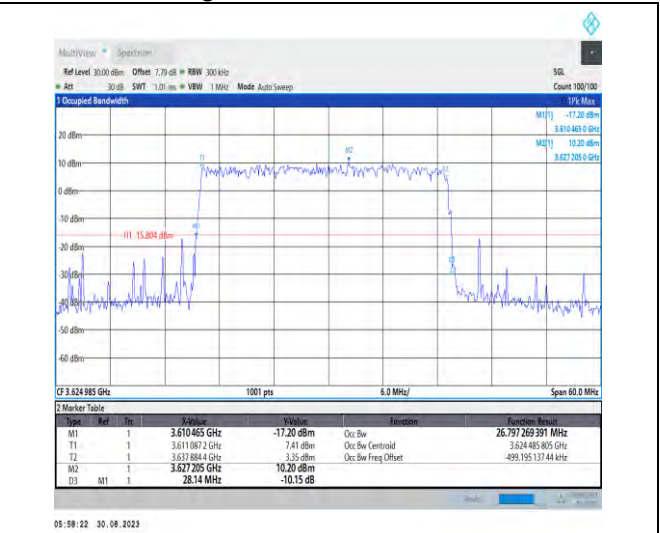
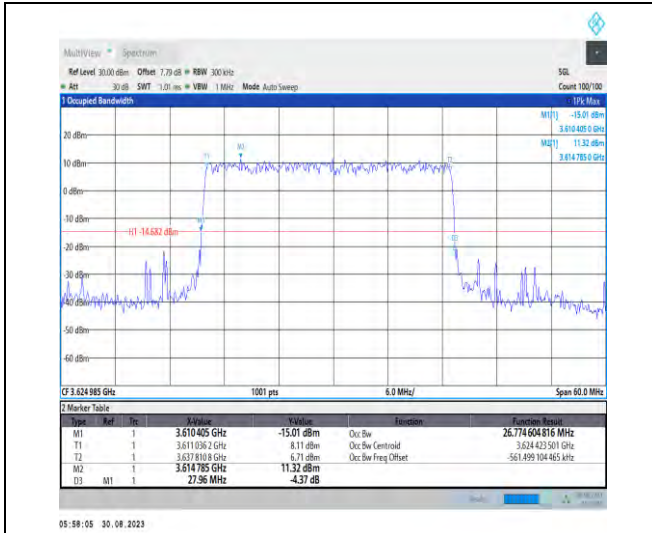
1-N48-PC3-30-30-M-1-DFT-QPSK-Outer_Full-75@0
-Ant5-26.766-28.140-<30-PASS



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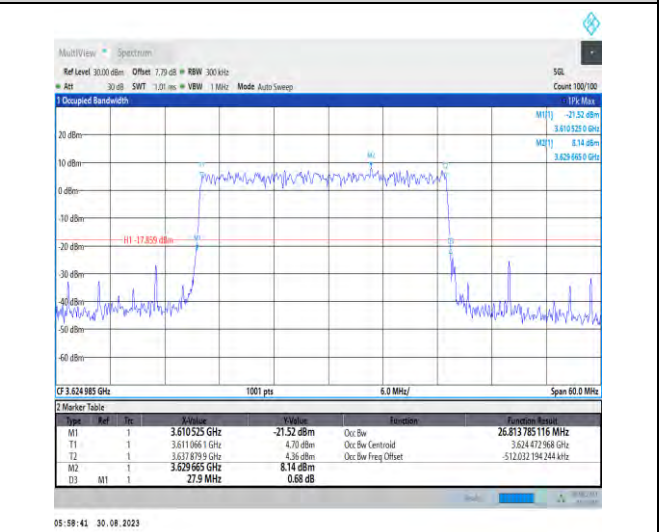
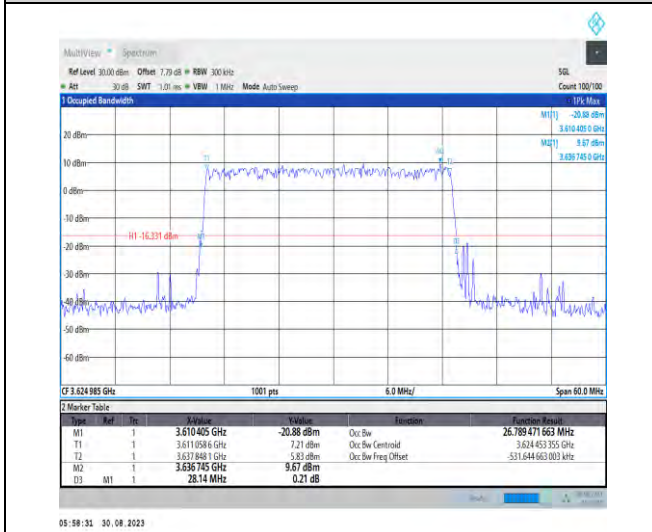
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1-N48-PC3-30-30-M-2-DFT-PI2BPSK-Outer_Full-75 @0-Ant5-26.775-27.960-≤30-PASS

1-N48-PC3-30-30-M-3-DFT-16QAM-Outer_Full-75 @0-Ant5-26.797-28.140-≤30-PASS



1-N48-PC3-30-30-M-4-DFT-64QAM-Outer_Full-75 @0-Ant5-26.789-28.140-≤30-PASS

1-N48-PC3-30-30-M-5-DFT-256QAM-Outer_Full-75 @0-Ant5-26.814-27.900-≤30-PASS



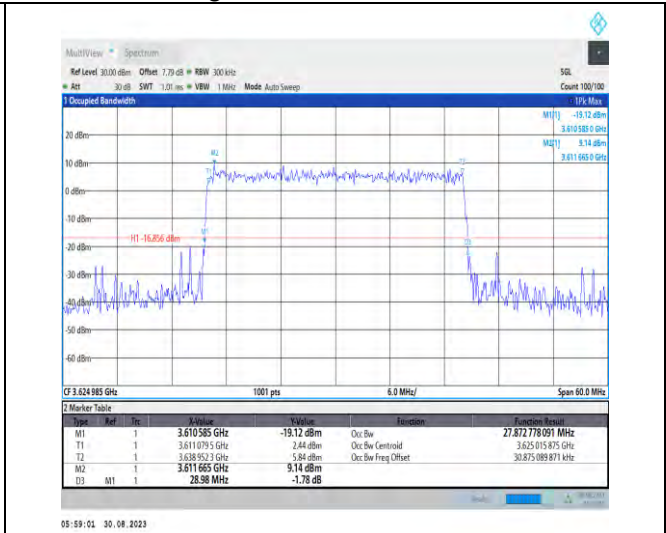
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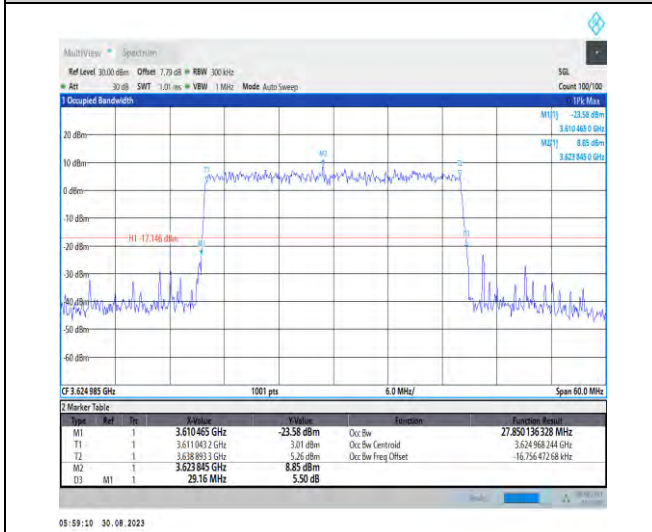
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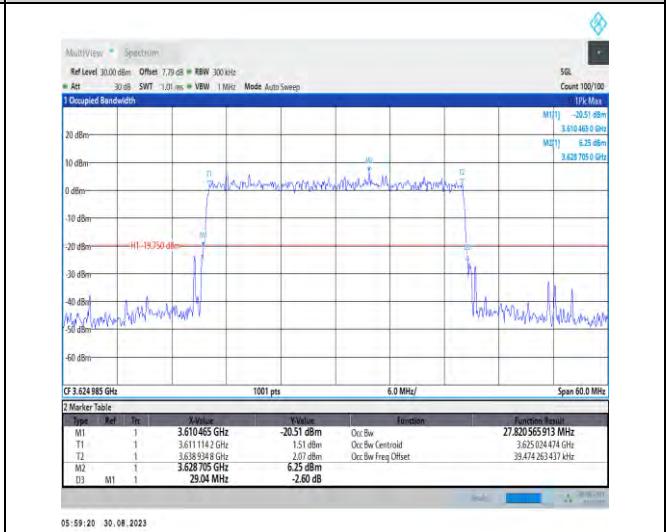
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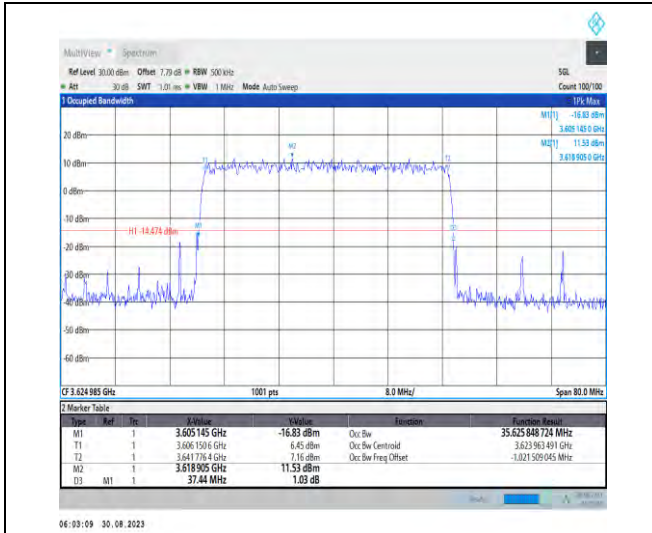
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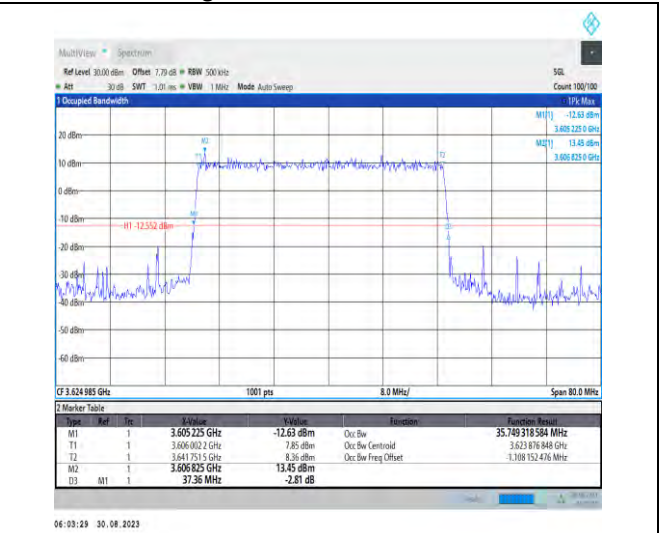
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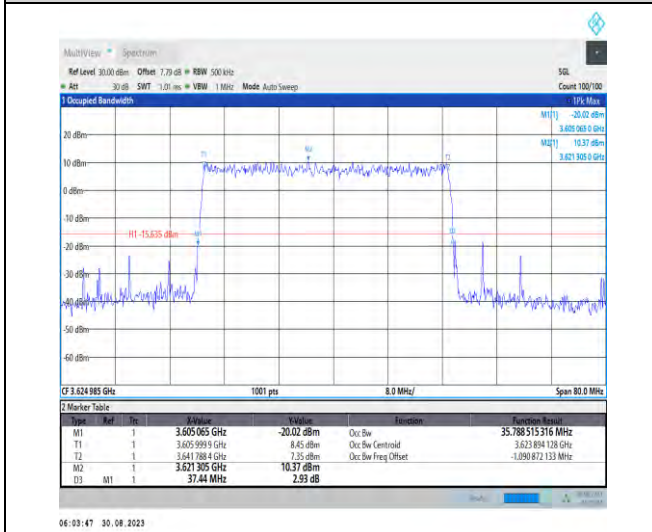
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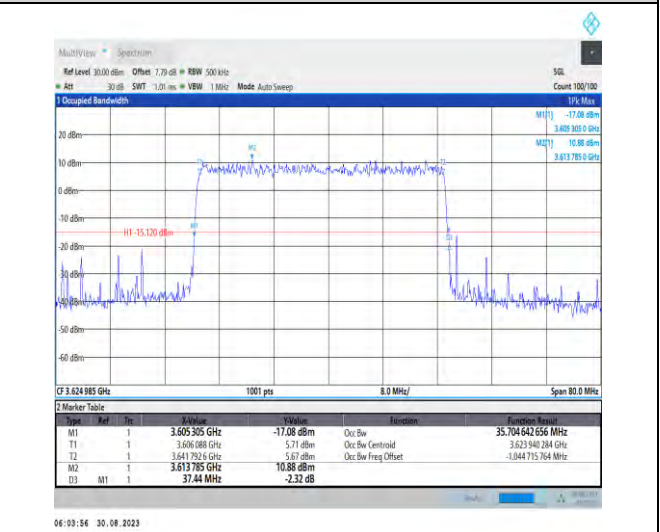
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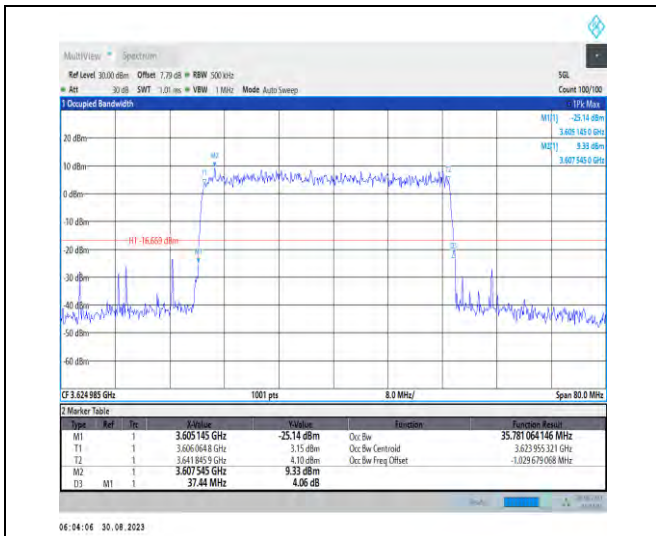
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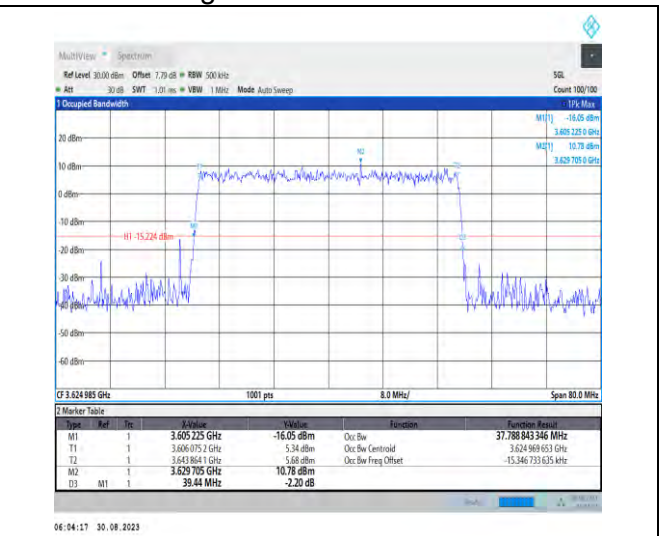
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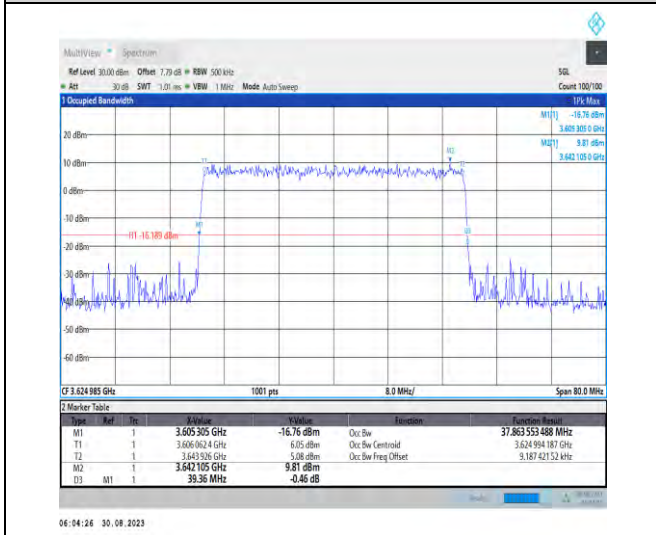
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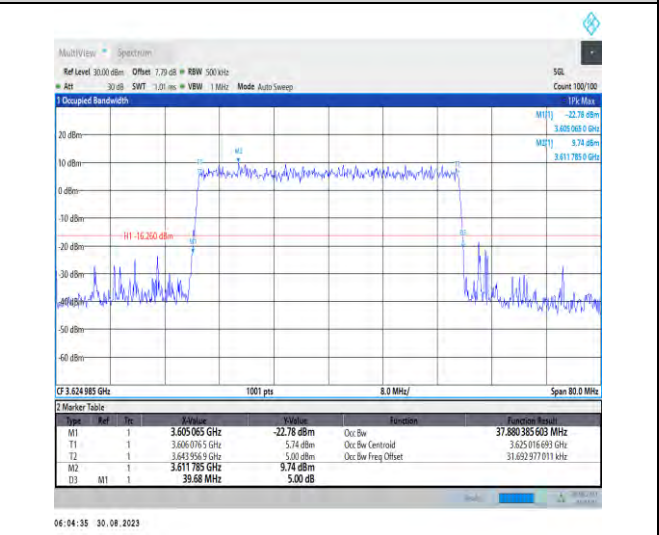
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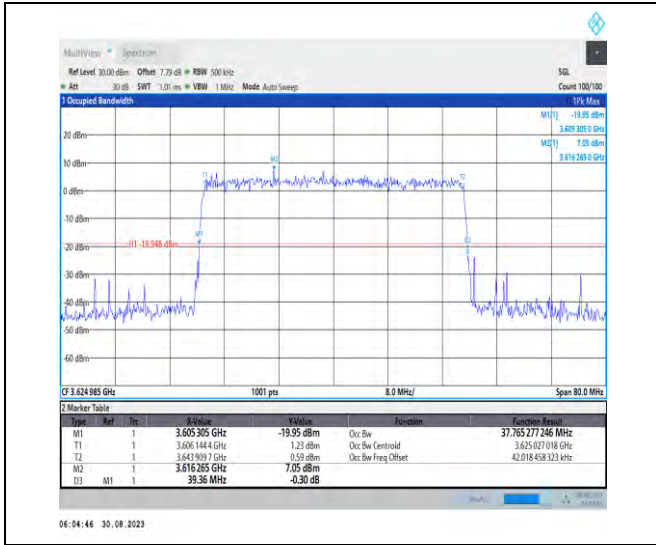
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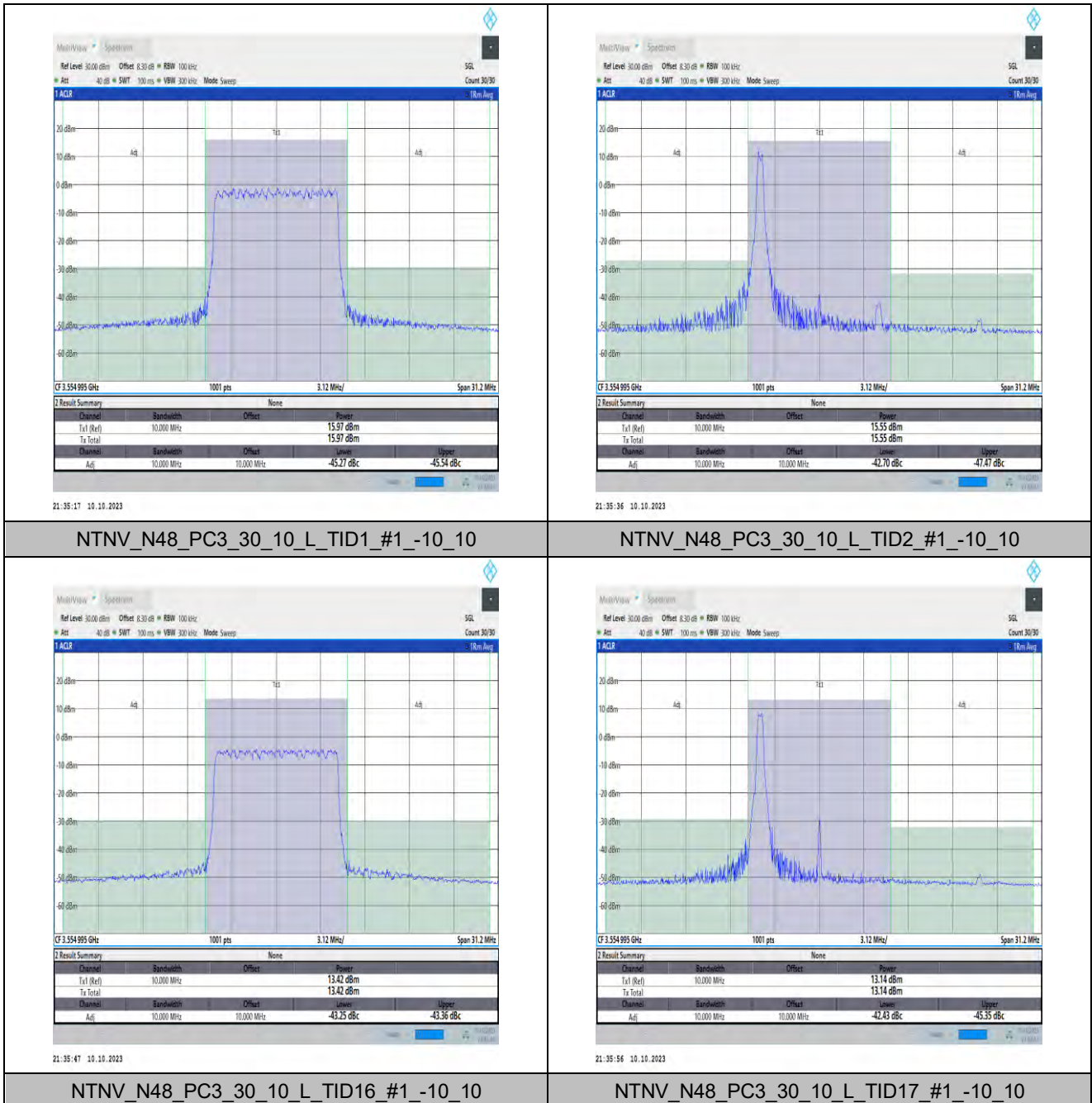
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ACLR for SA

Test Graphs



NTNV_N48_PC3_30_10_L_TID1 #1_-10_10

NTNV_N48_PC3_30_10_L_TID2 #1_-10_10

NTNV_N48_PC3_30_10_L_TID16 #1_-10_10

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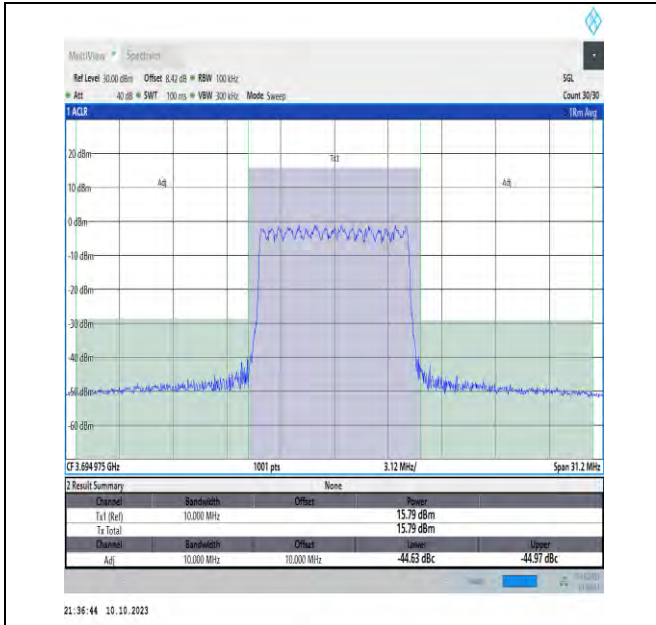


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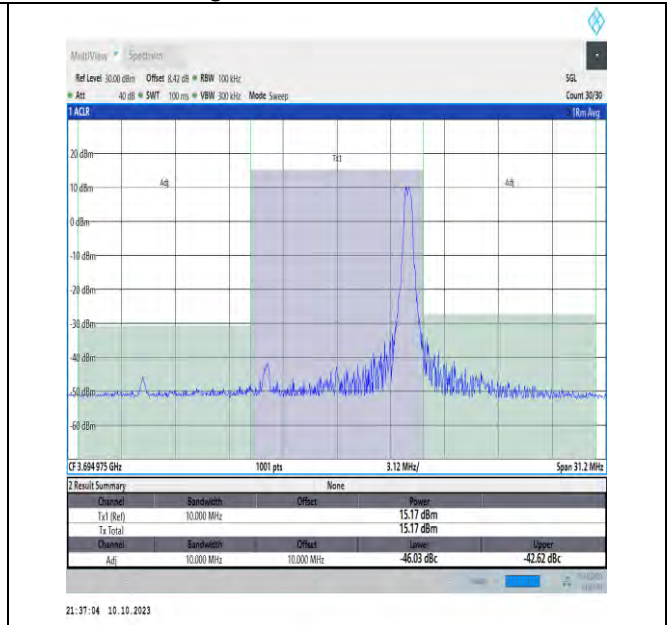
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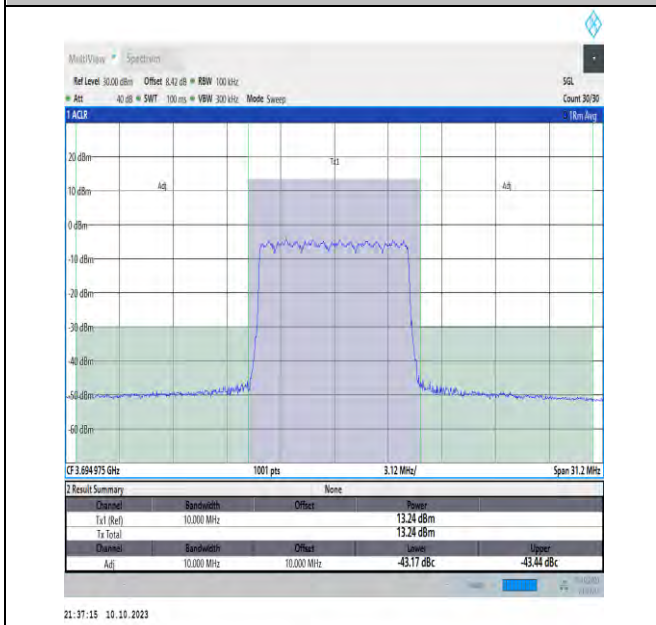
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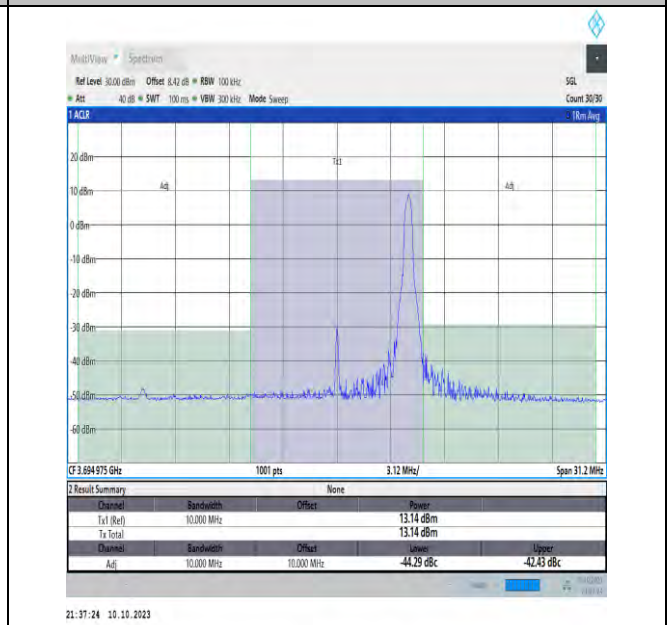
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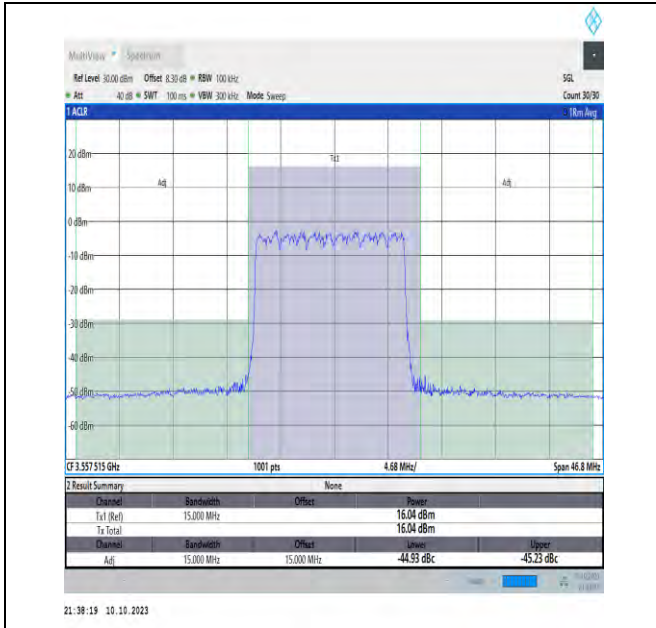


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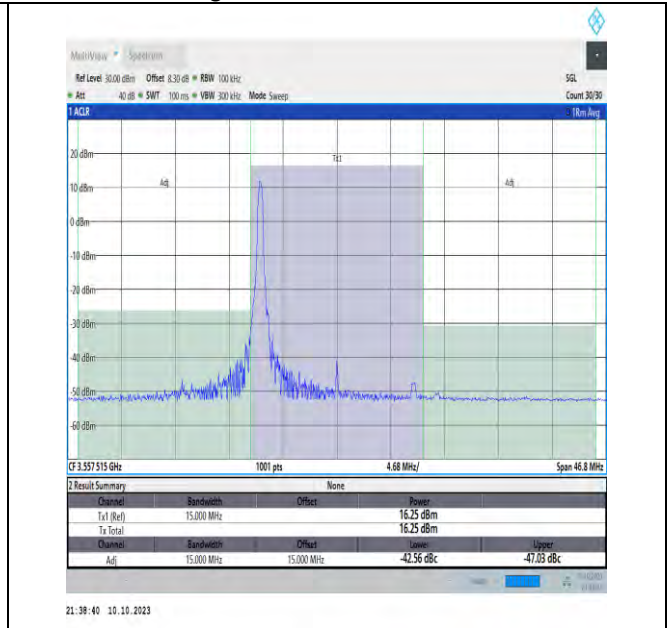


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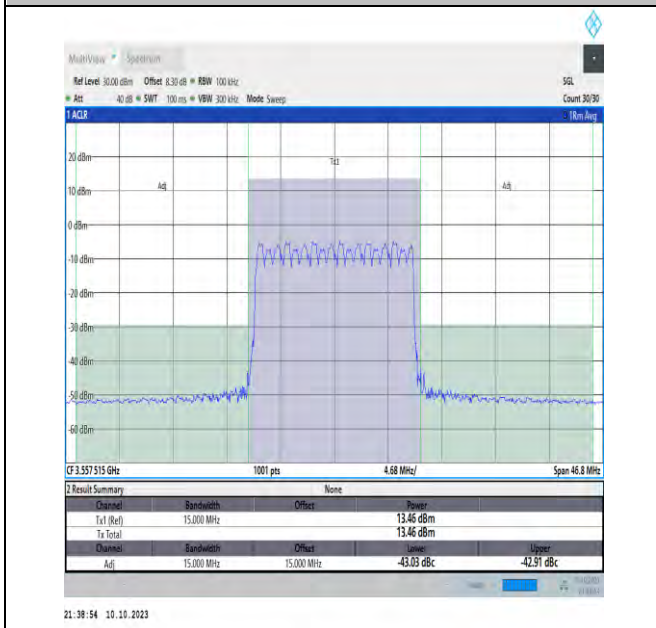
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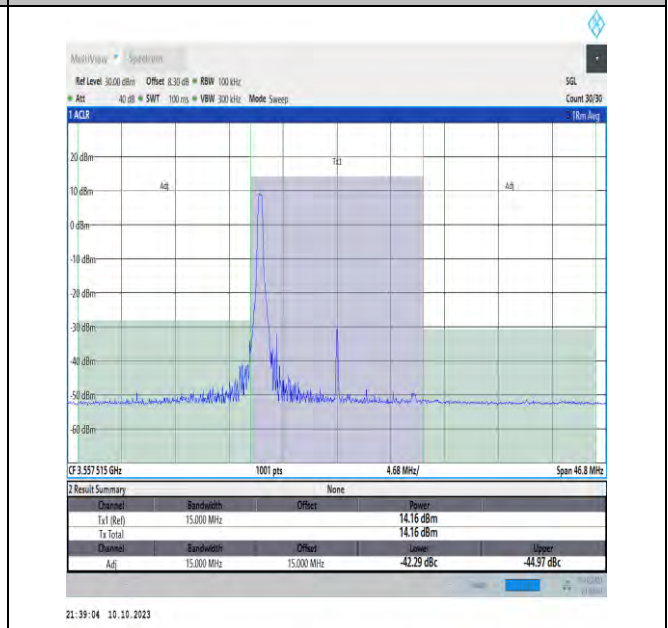
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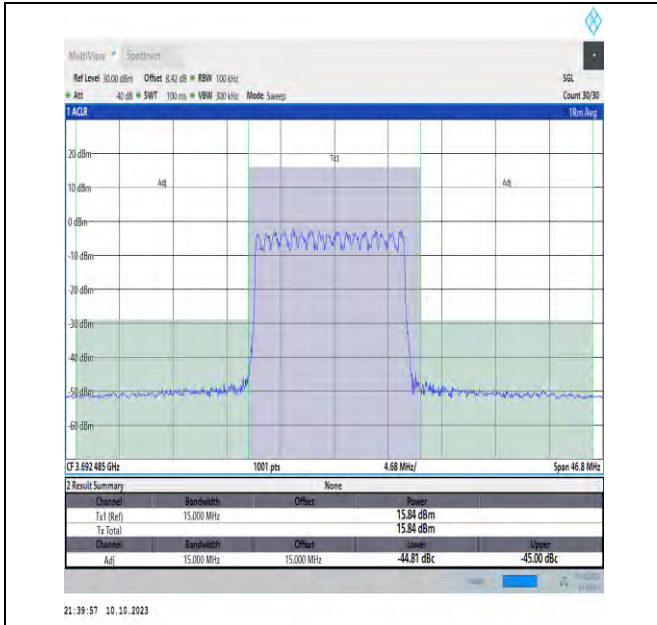
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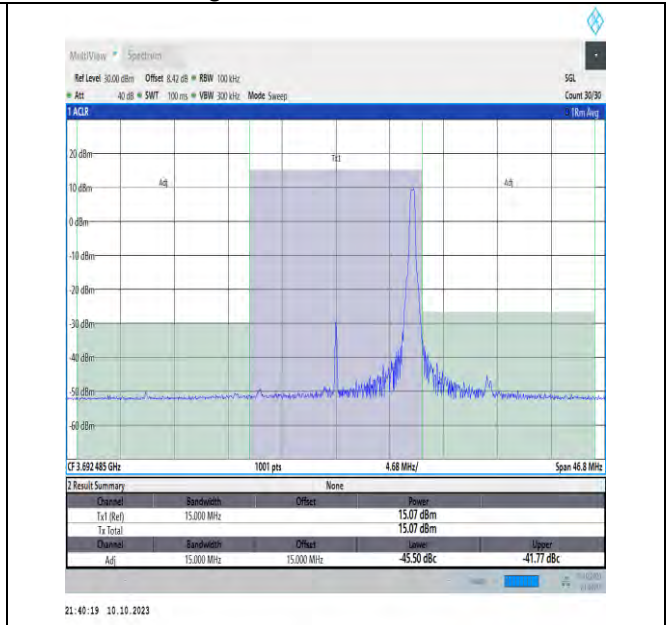
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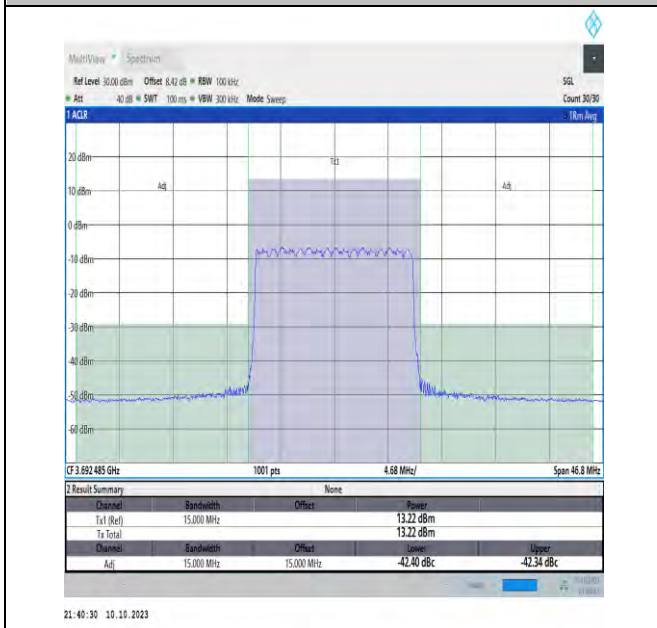
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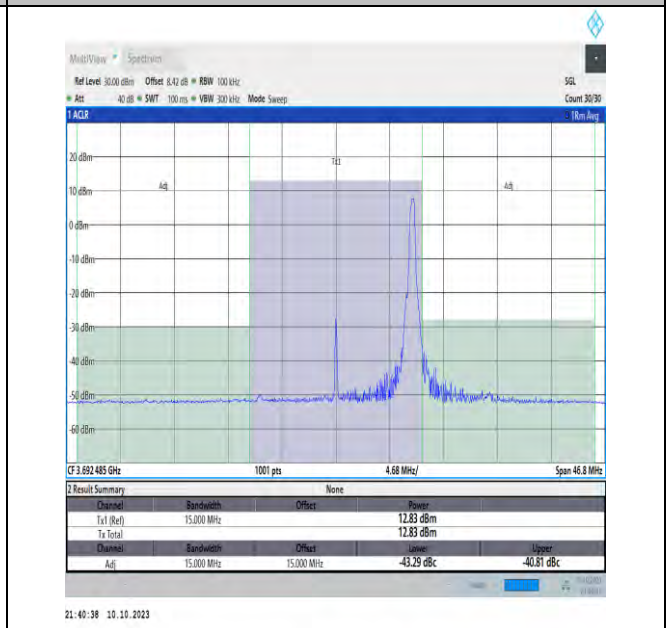
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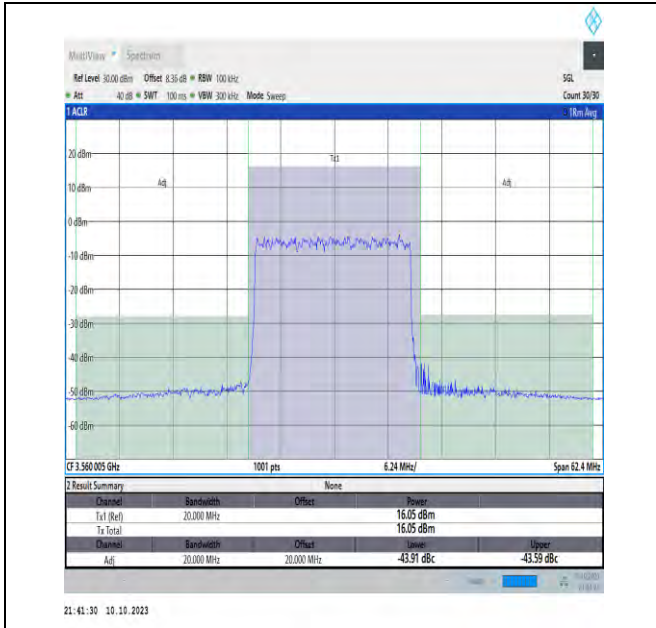


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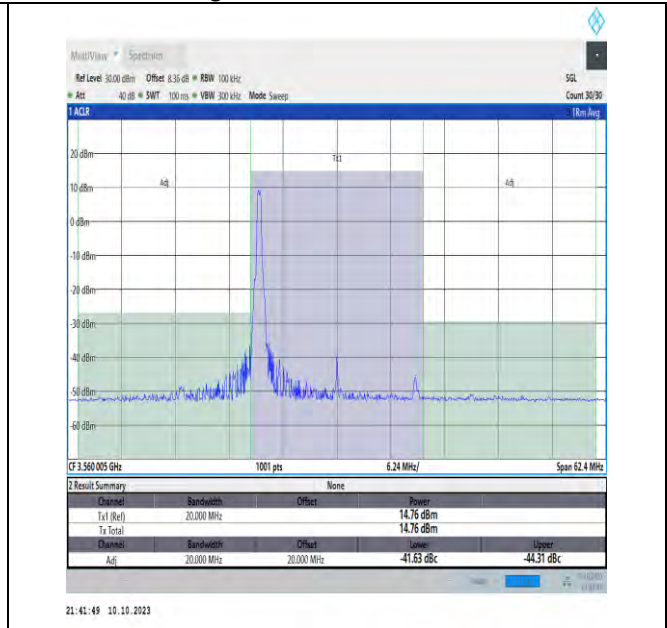


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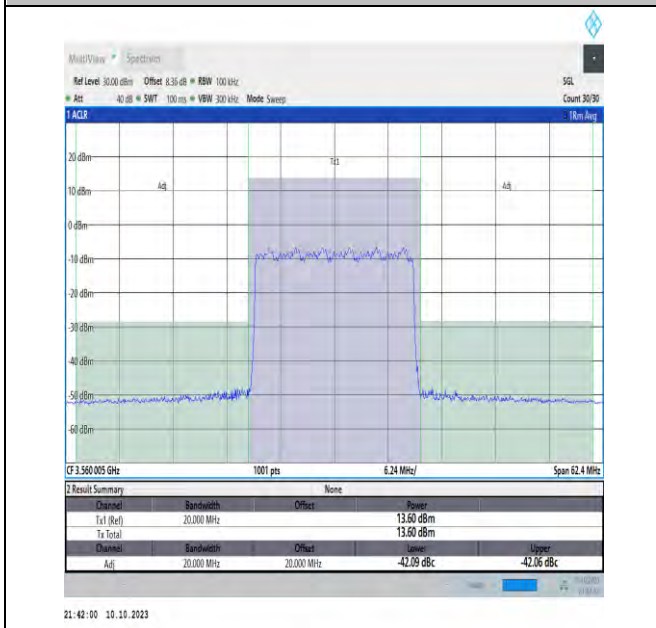
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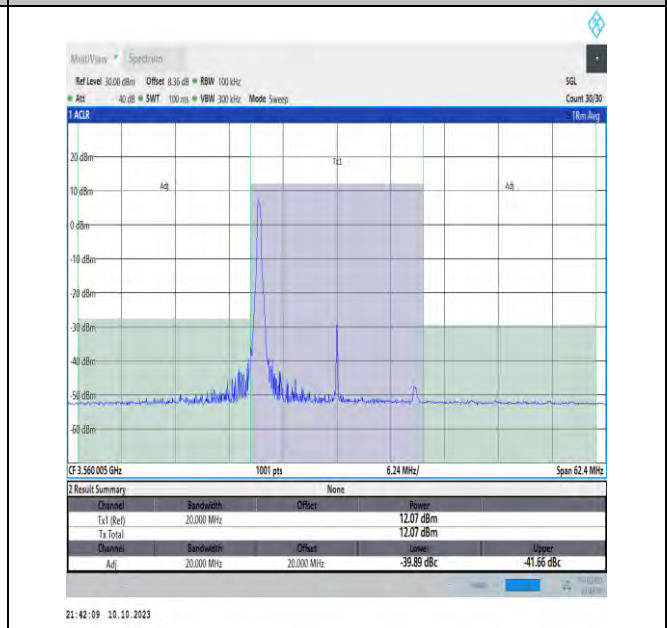
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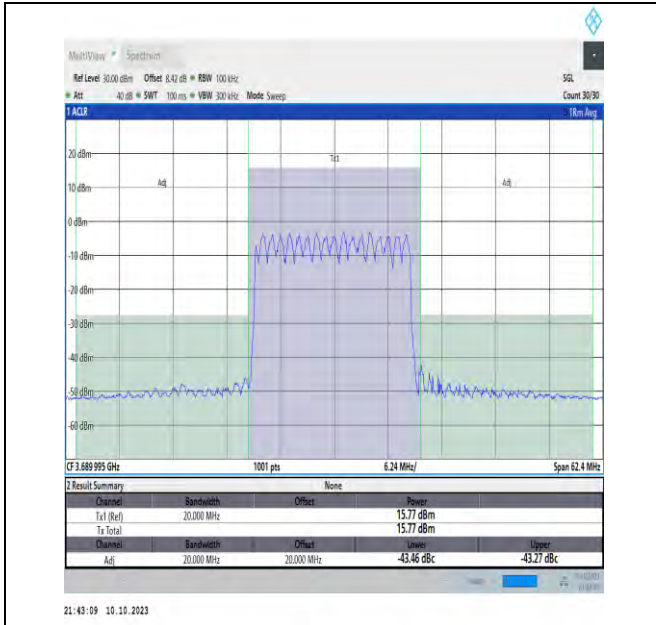
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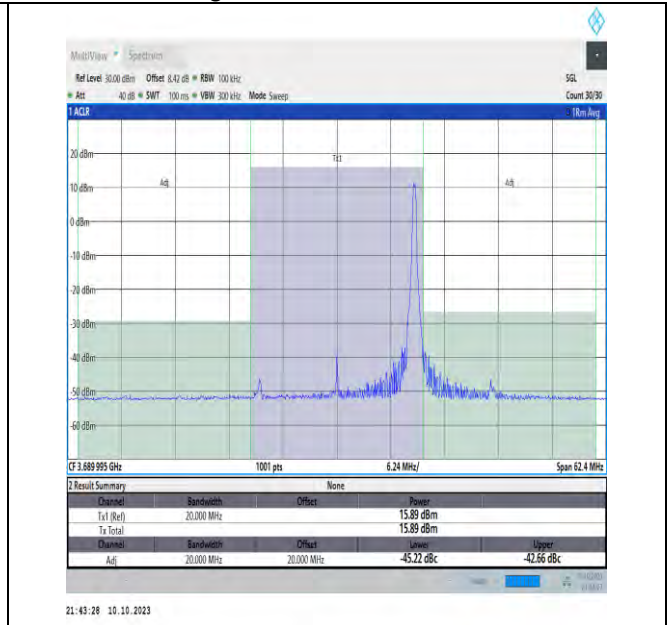
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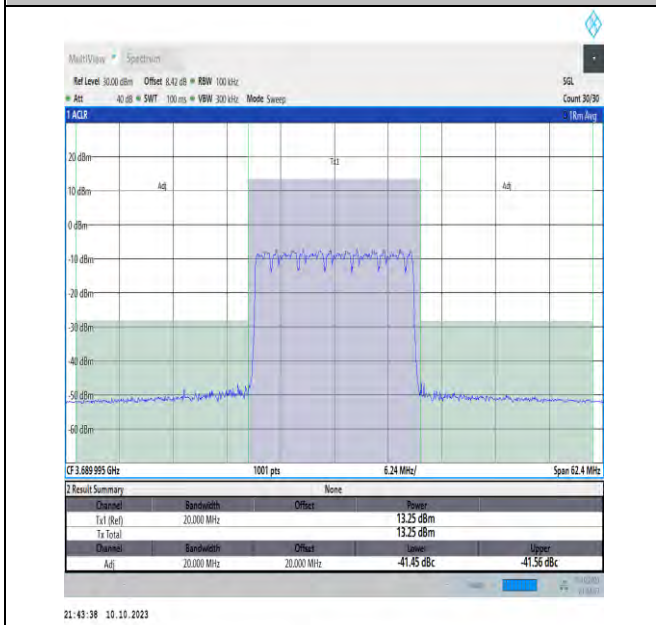
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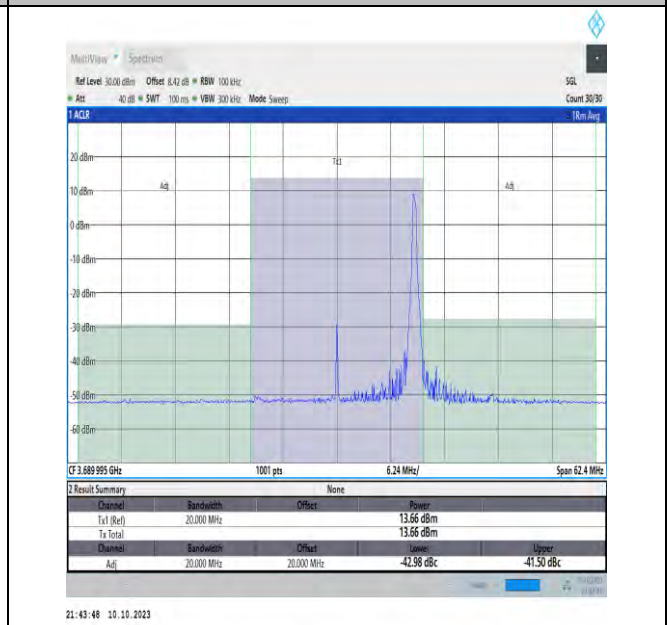
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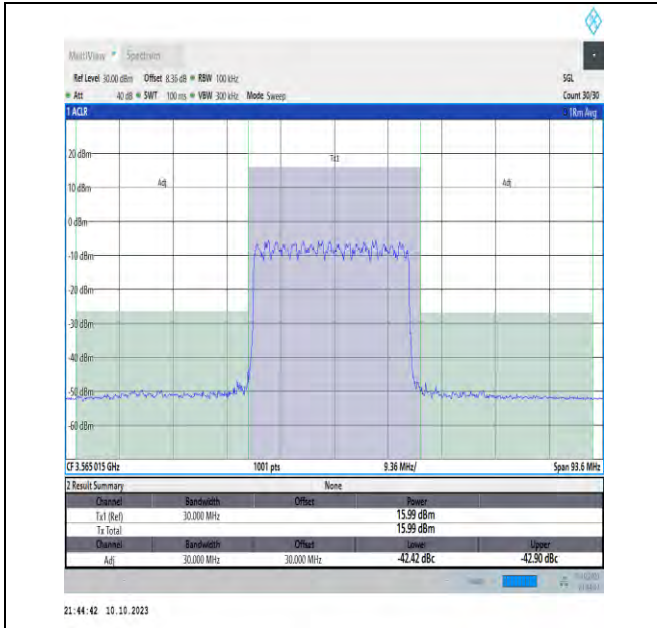
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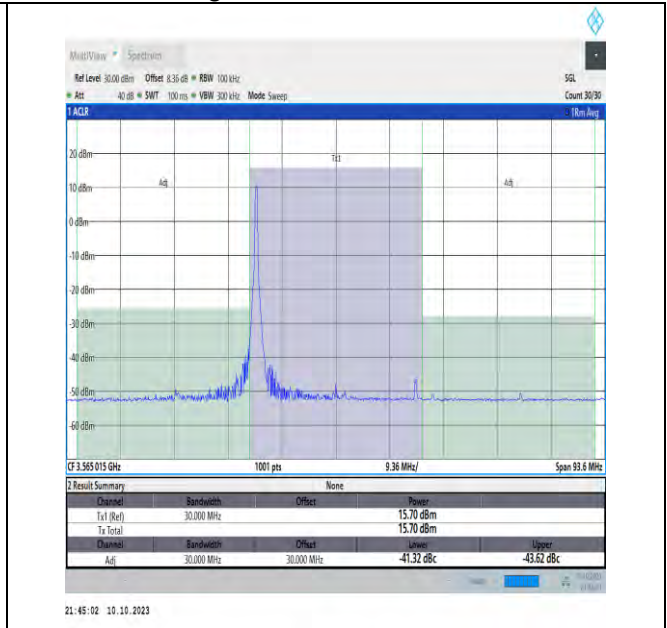
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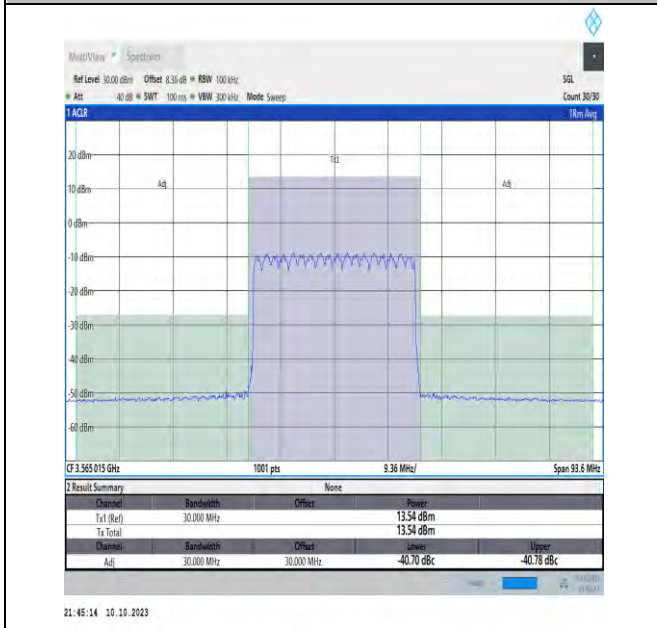
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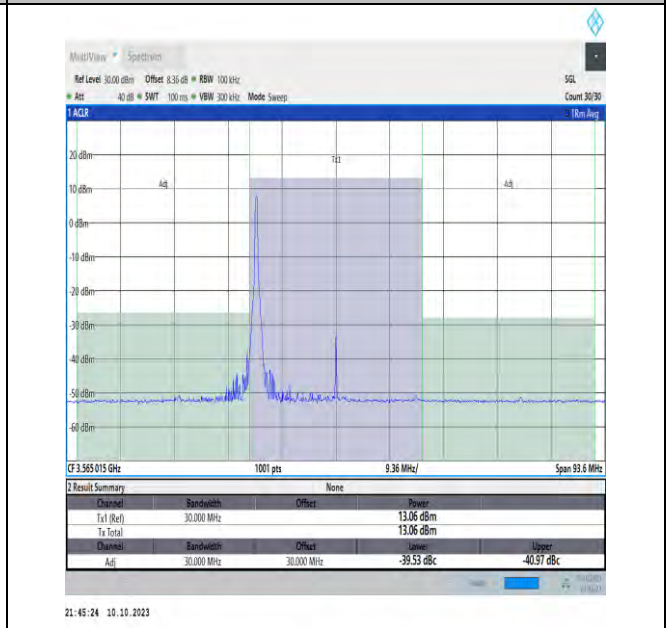
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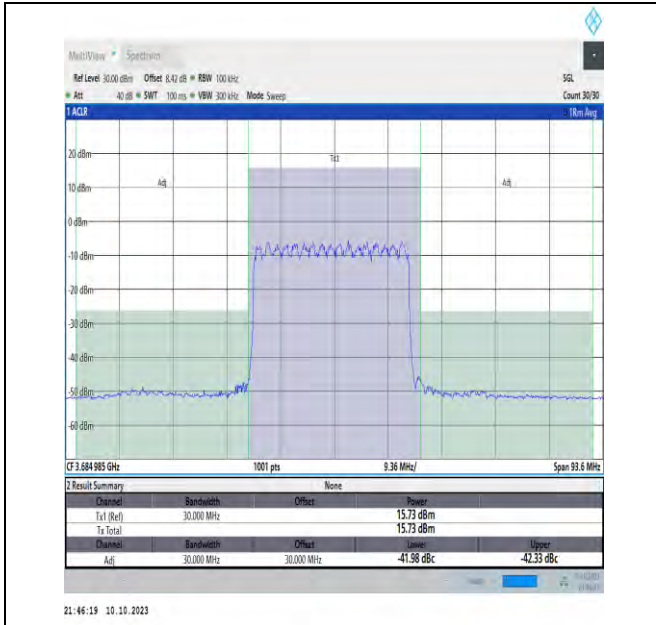


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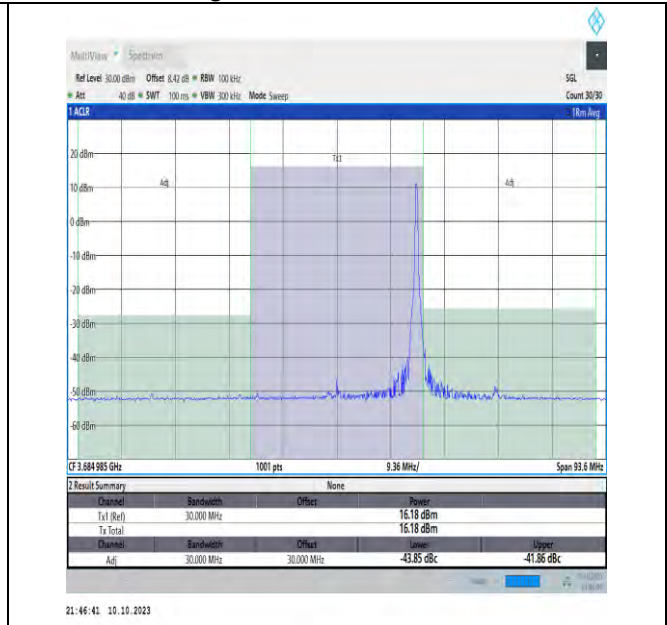
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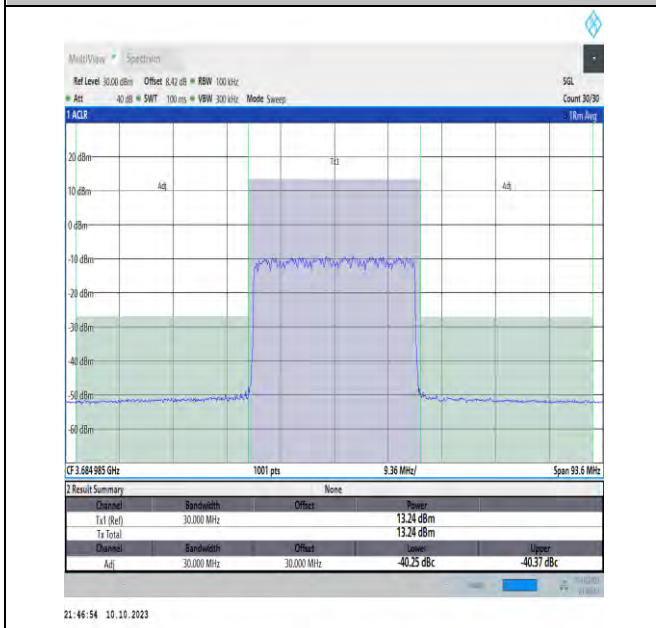
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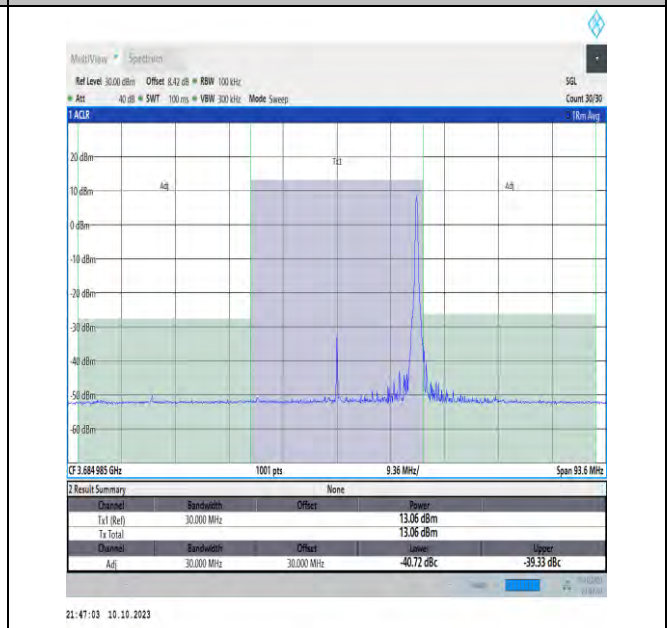
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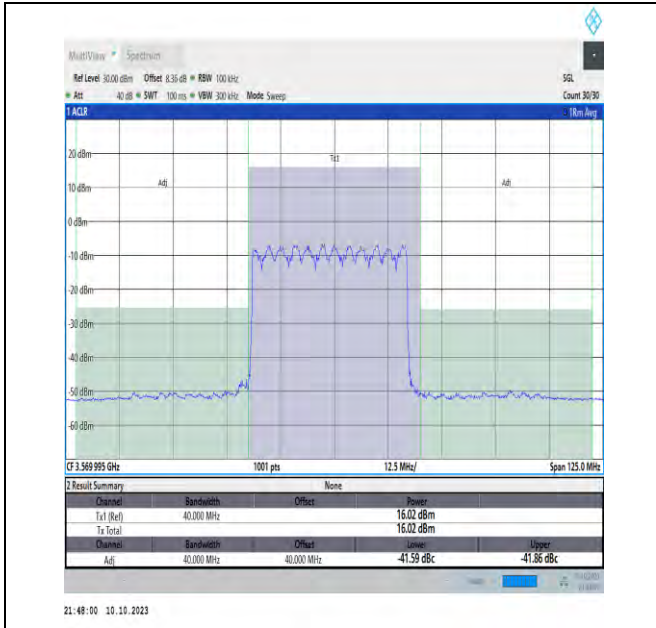


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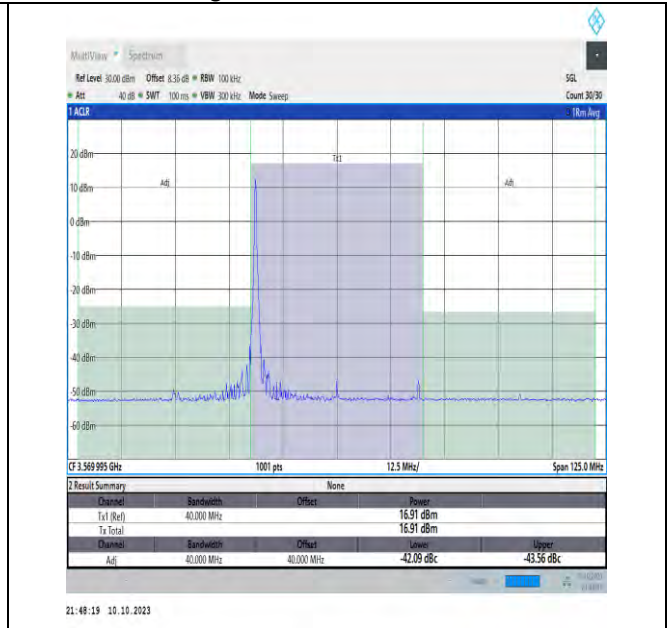


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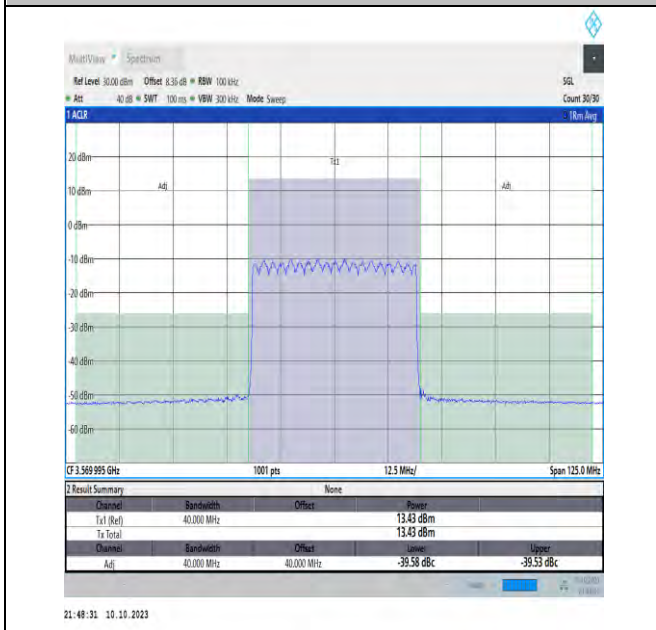
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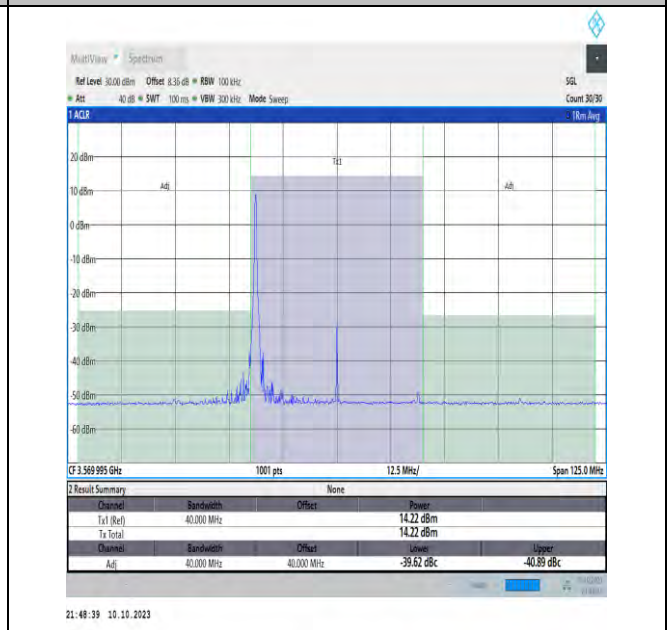
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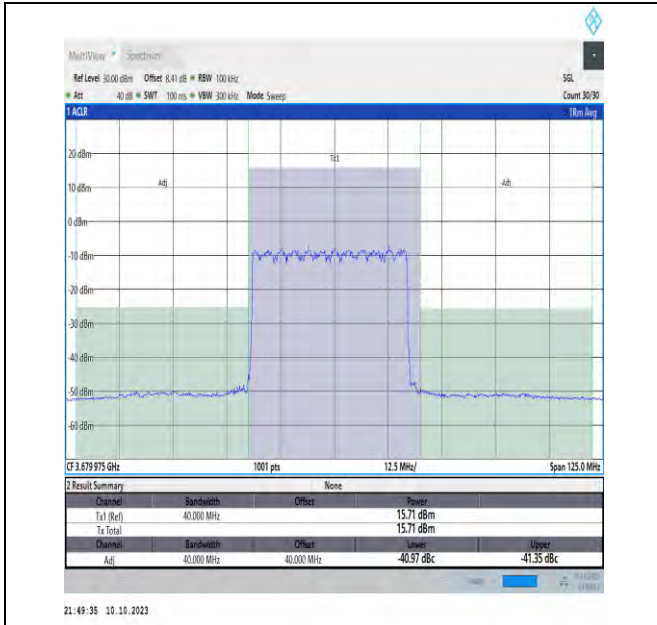


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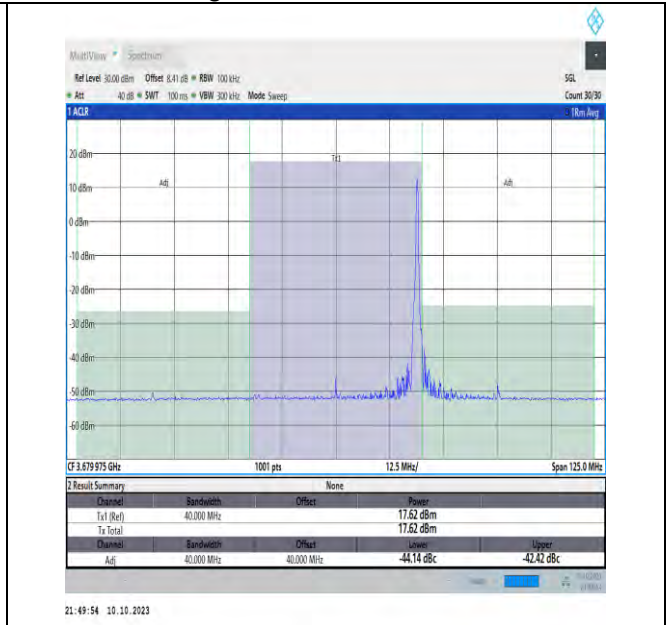


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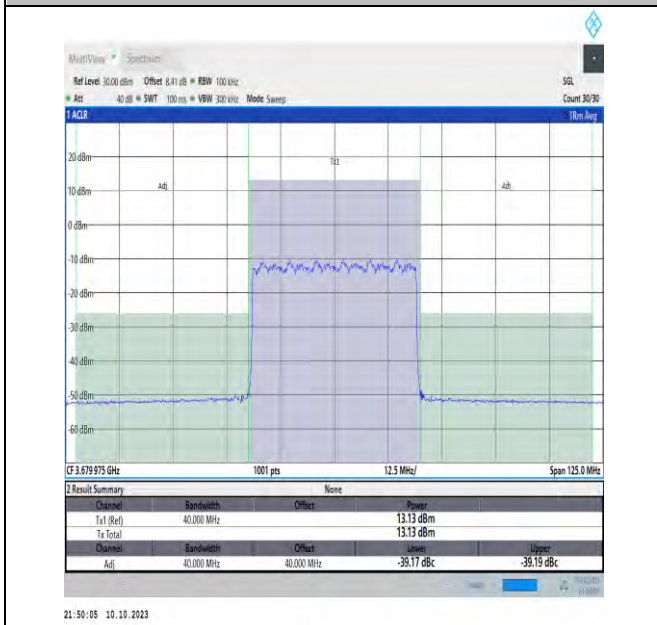
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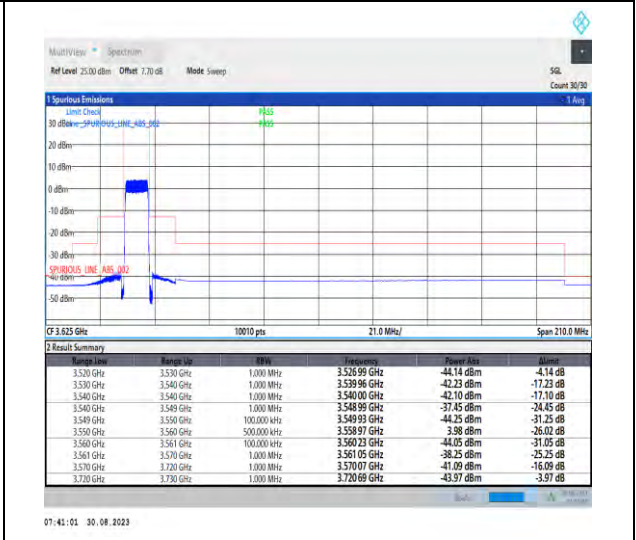
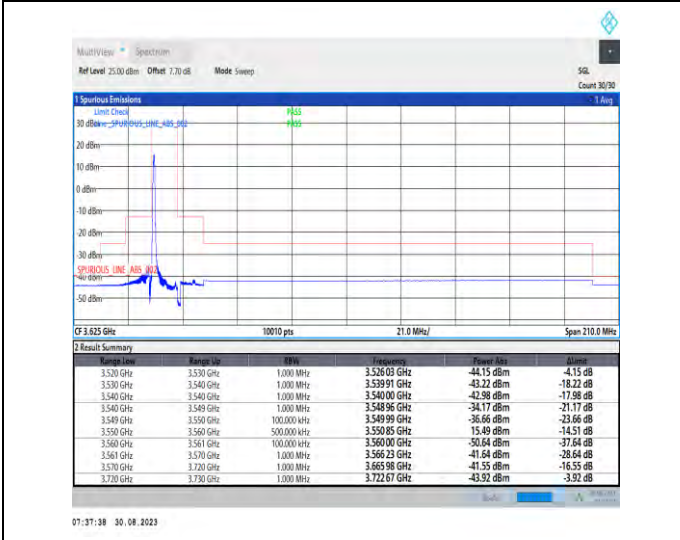
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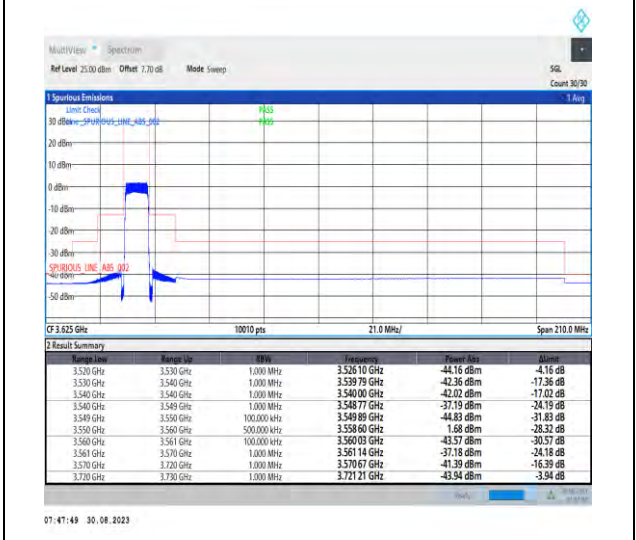
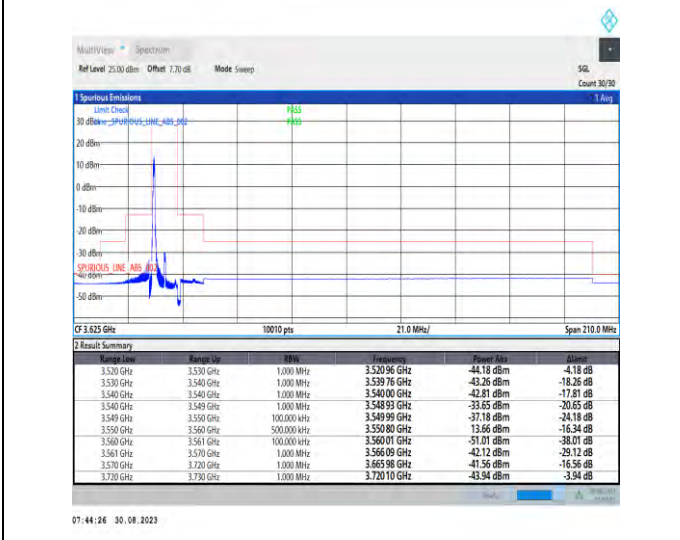
Band Edge for SA

Test Graphs



1-N48-PC3-30-10-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph

1-N48-PC3-30-10-L-3-DFT-PI2BPSK-Outer_Full-24@0-Ant5-1--PASS-see graph



1-N48-PC3-30-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph

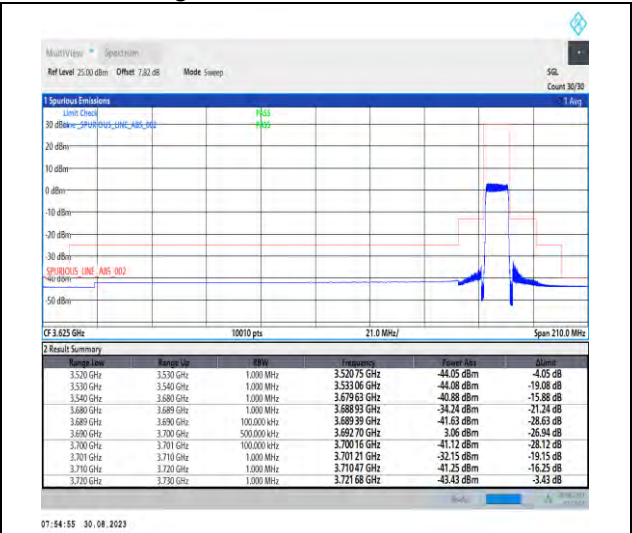
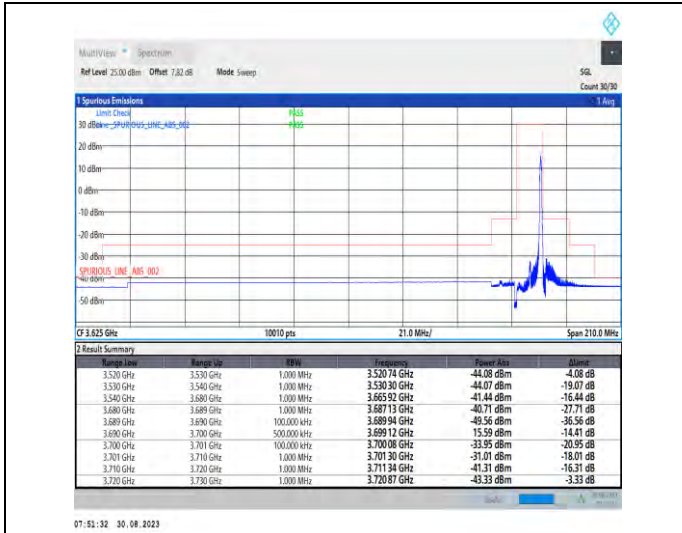
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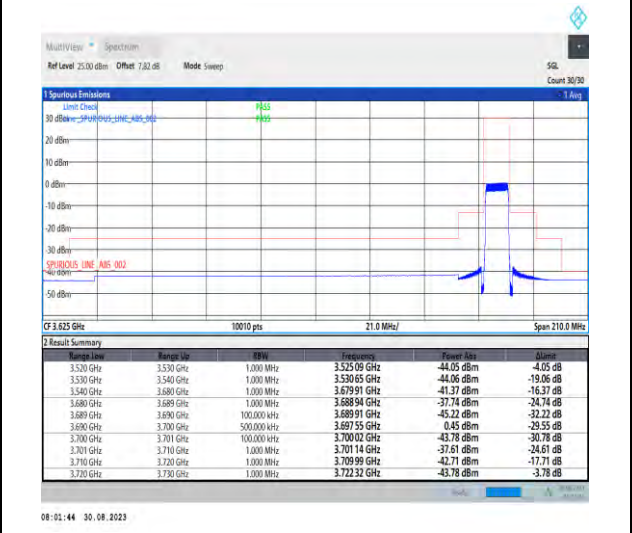
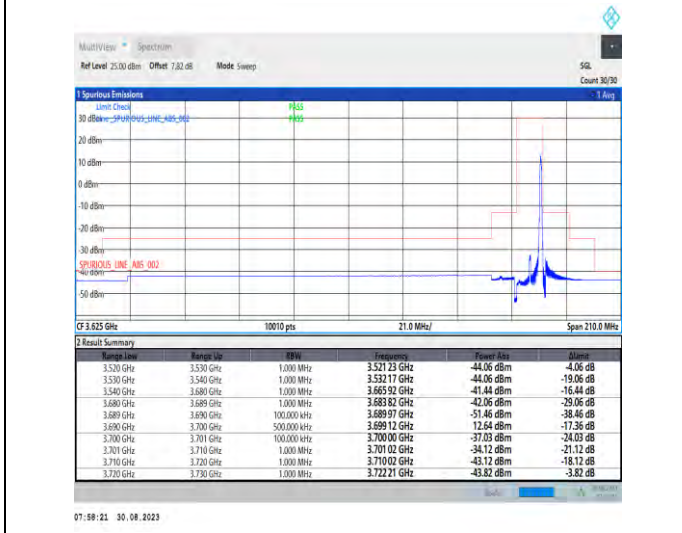
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1-N48-PC3-30-10-H-2-DFT-PI2BPSK-Edge_1RB_Righ t-1@23-Ant5-1--PASS-see graph

1-N48-PC3-30-10-H-3-DFT-PI2BPSK-Outer_Full-2 4@0-Ant5-1--PASS-see graph



1-N48-PC3-30-10-H-5-CP-QPSK-Edge_1RB_Right-1 @23-Ant5-1--PASS-see graph

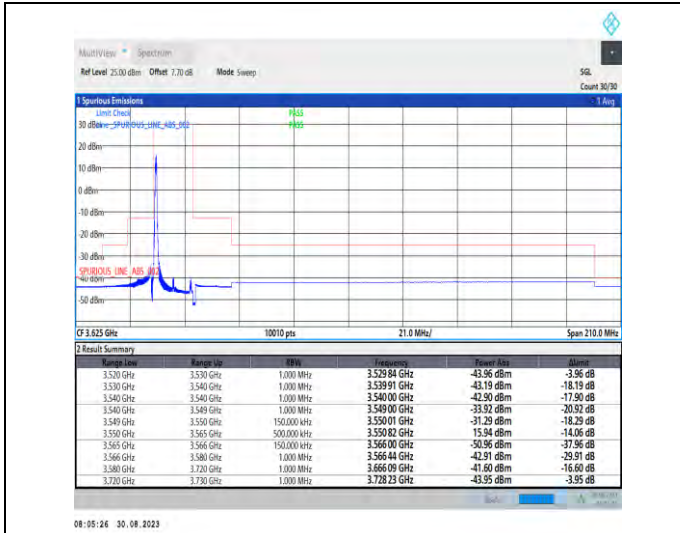
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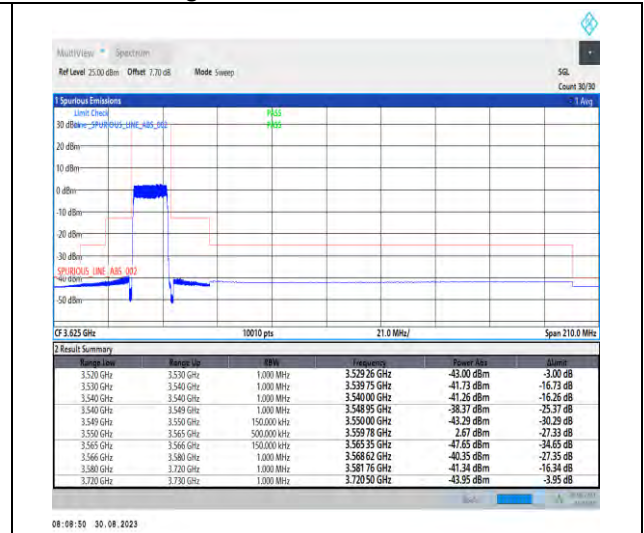
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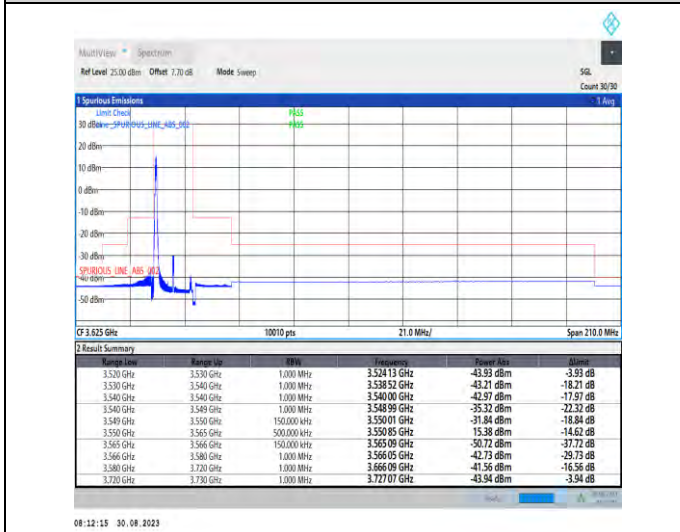
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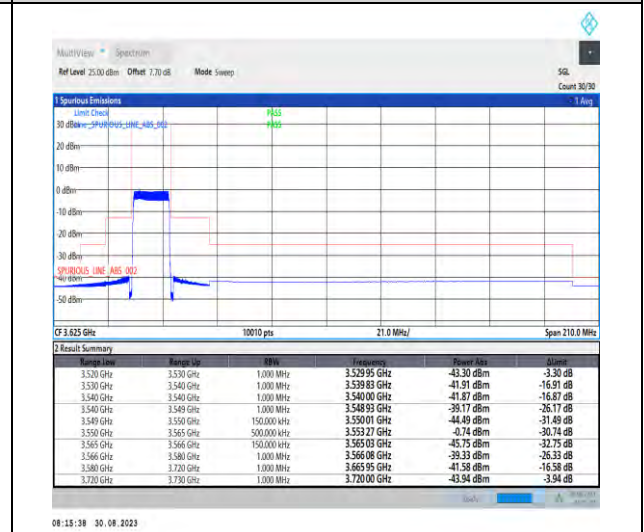
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1-N48-PC3-30-15-L-3-DFT-PI2BPSK-Outer_Full-36@0-Ant5-1--PASS-see graph



1-N48-PC3-30-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph



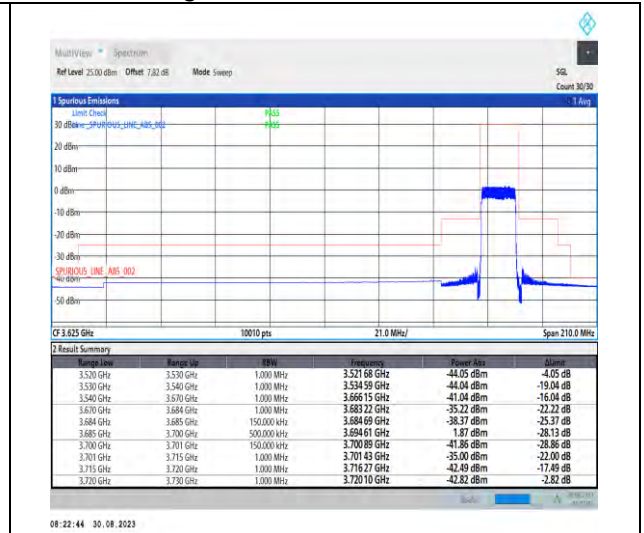
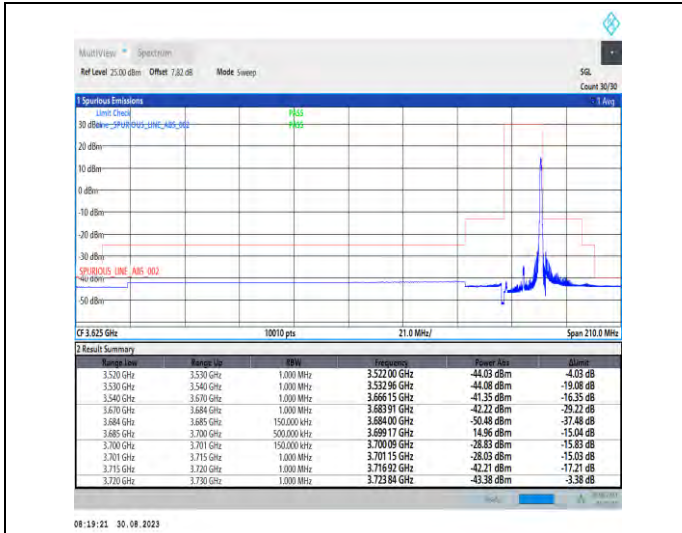
1-N48-PC3-30-15-L-6-CP-QPSK-Outer_Full-38@0-Ant5-1--PASS-see graph



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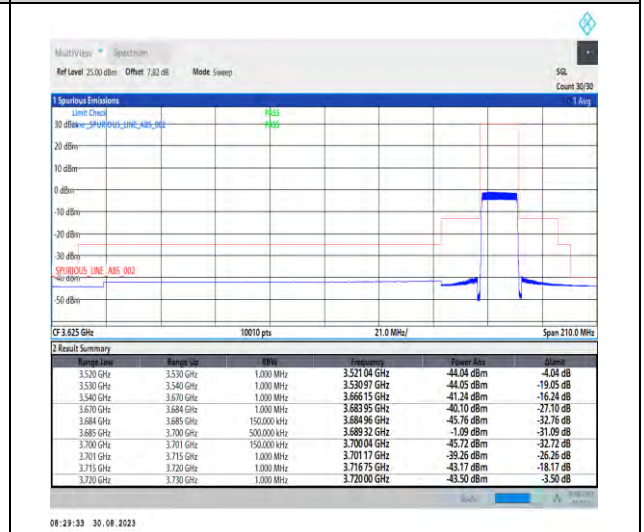
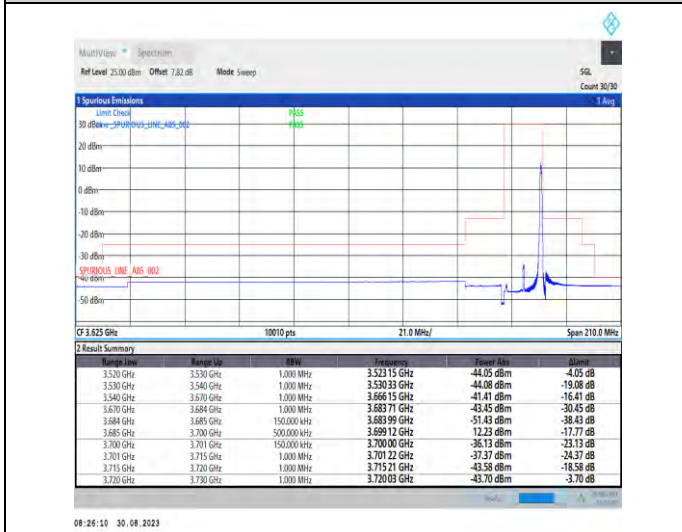
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1-N48-PC3-30-15-H-2-DFT-PI2BPSK-Edge_1RB_Righ t-1@37-Ant5-1--PASS-see graph

1-N48-PC3-30-15-H-3-DFT-PI2BPSK-Outer_Full-3 6@0-Ant5-1--PASS-see graph



1-N48-PC3-30-15-H-5-CP-QPSK-Edge_1RB_Right-1 @37-Ant5-1--PASS-see graph

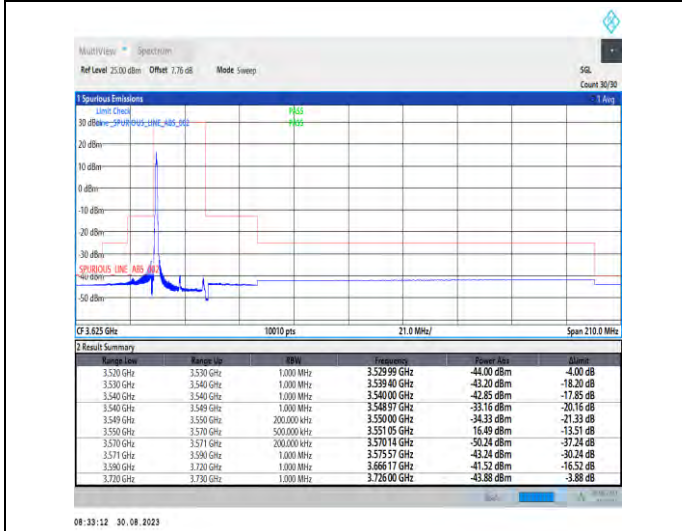
1-N48-PC3-30-15-H-6-CP-QPSK-Outer_Full-38@ 0-Ant5-1--PASS-see graph



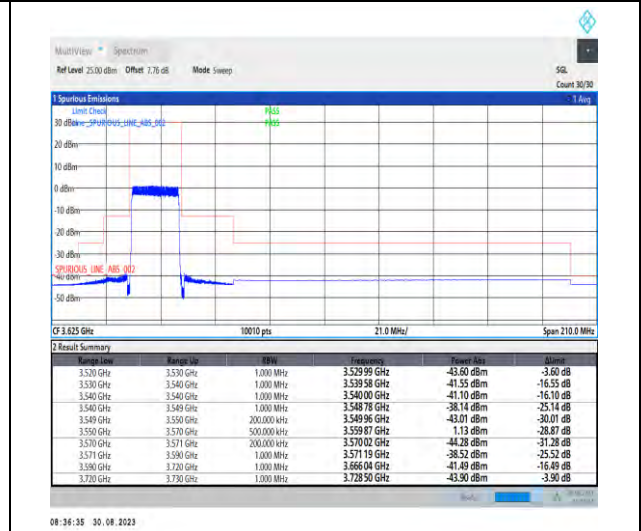
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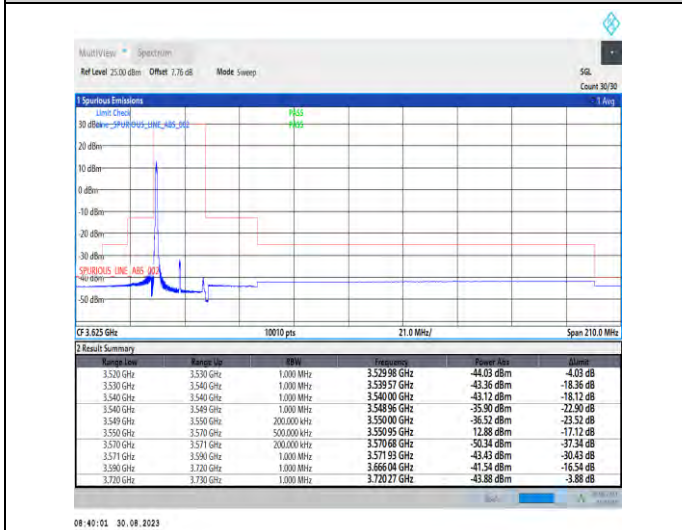
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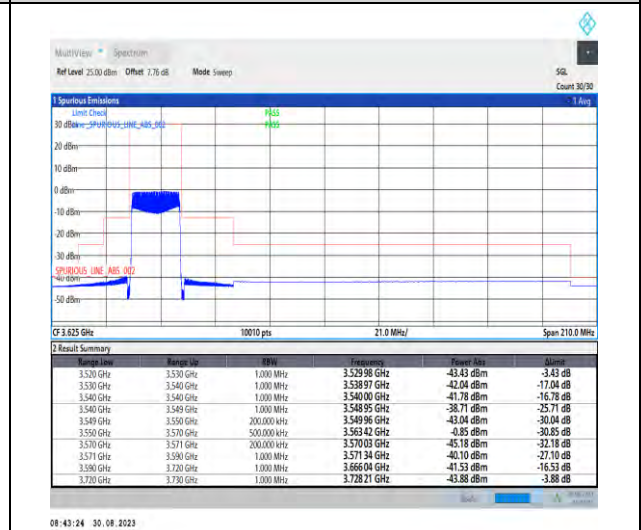
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1-N48-PC3-30-20-L-3-DFT-PI2BPSK-Outer_Full-50@0-Ant5-1--PASS-see graph



1-N48-PC3-30-20-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph



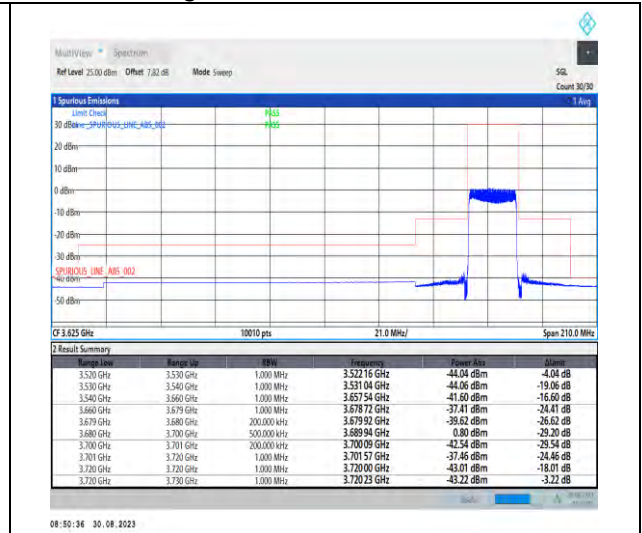
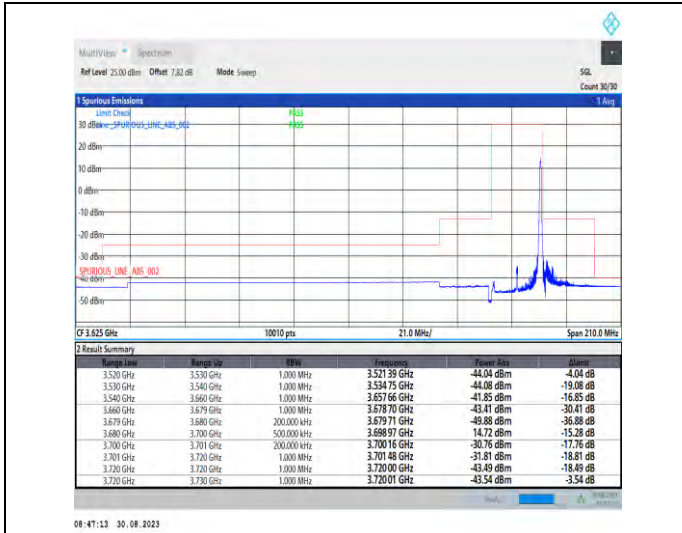
1-N48-PC3-30-20-L-6-CP-QPSK-Outer_Full-51@0-Ant5-1--PASS-see graph



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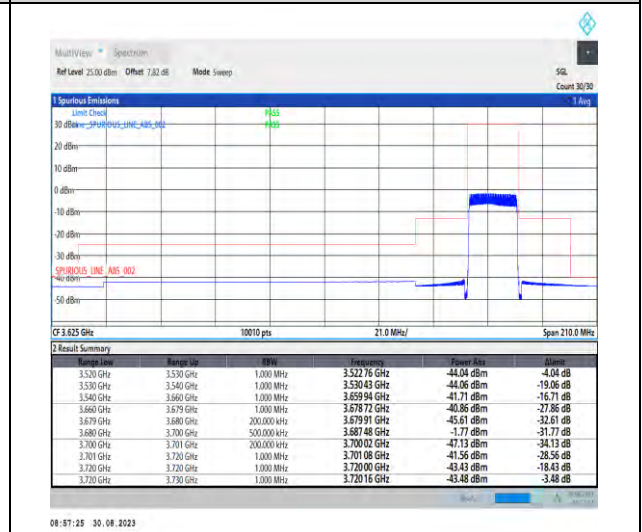
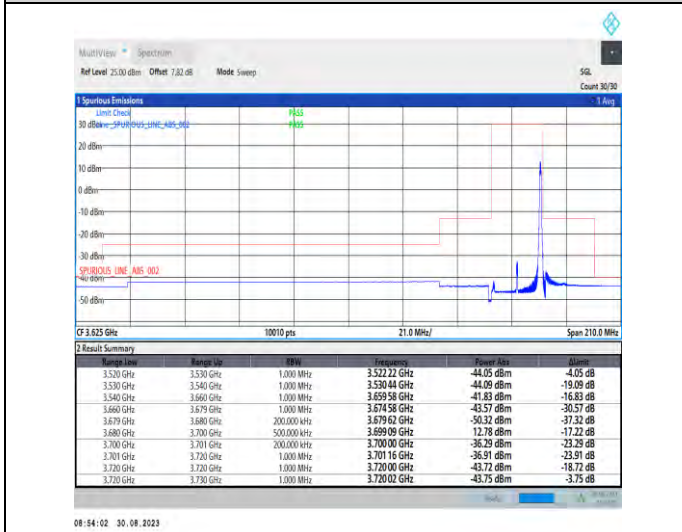
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1-N48-PC3-30-20-H-2-DFT-PI2BPSK-Edge_1RB_Right-t-1@50-Ant5-1--PASS-see graph

1-N48-PC3-30-20-H-3-DFT-PI2BPSK-Outer_Full-50@0-Ant5-1--PASS-see graph



1-N48-PC3-30-20-H-5-CP-QPSK-Edge_1RB_Right-1@50-Ant5-1--PASS-see graph

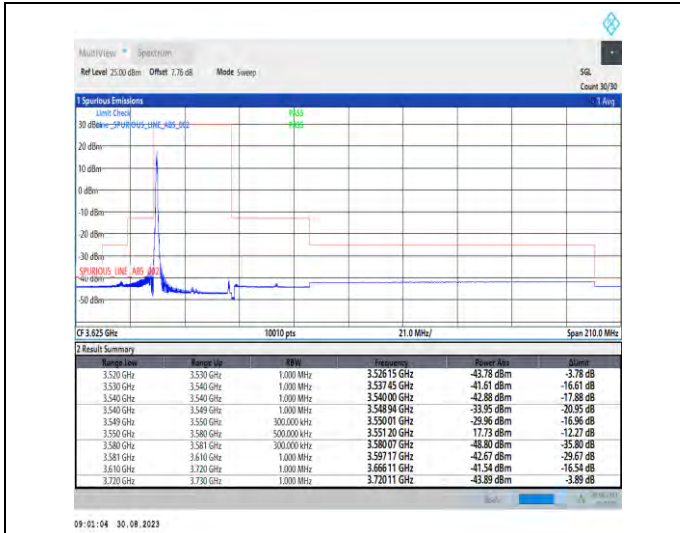
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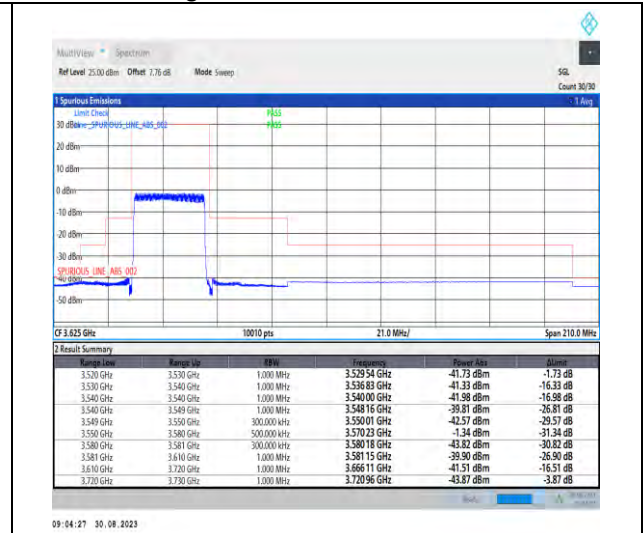
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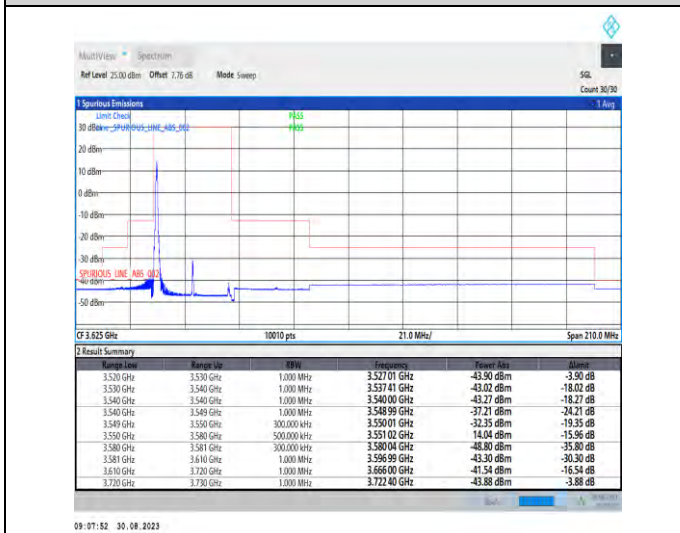
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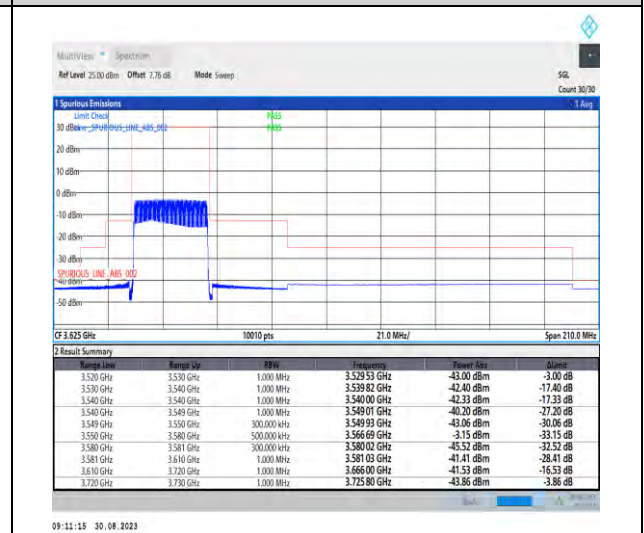
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1-N48-PC3-30-30-L-3-DFT-PI2BPSK-Outer_Full-75@0-Ant5-1--PASS-see graph



1-N48-PC3-30-30-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph

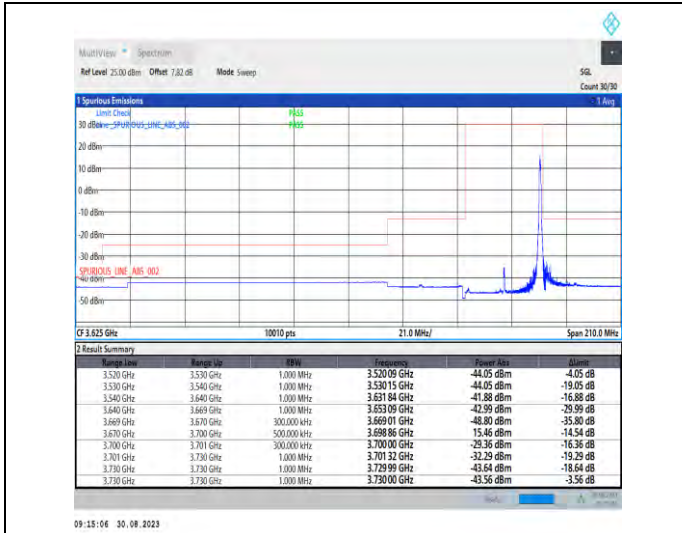


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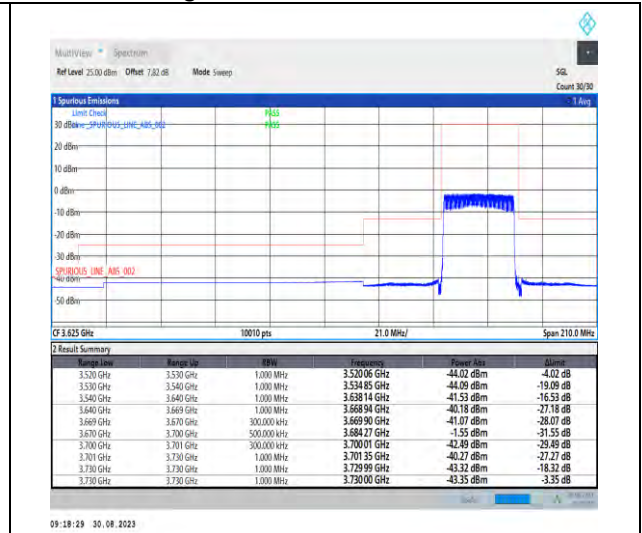


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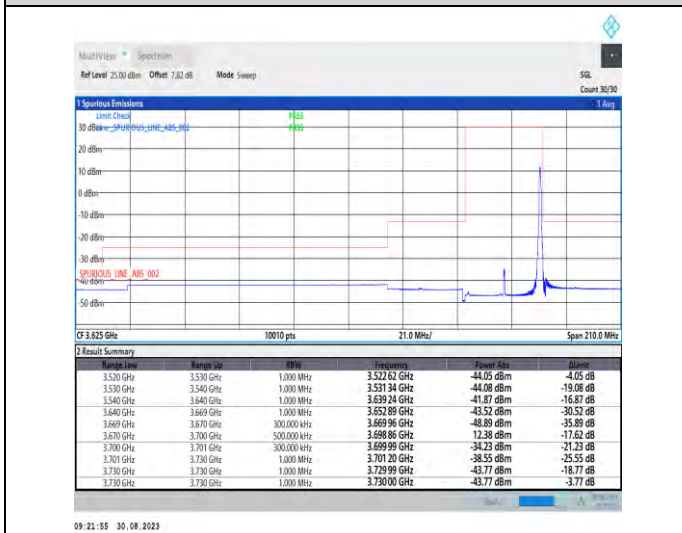
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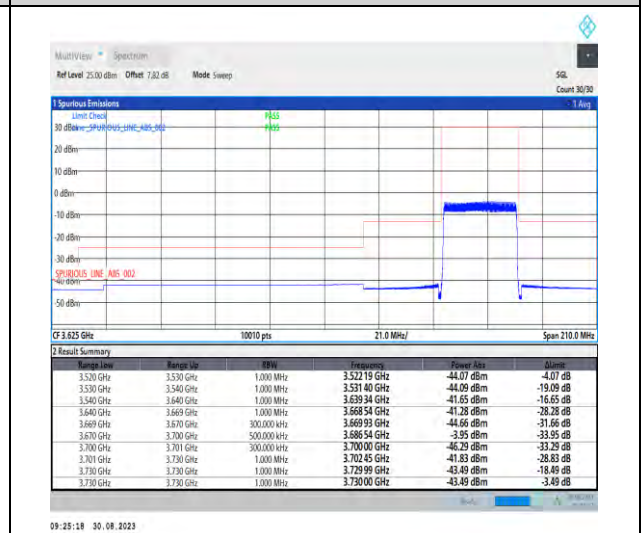
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1-N48-PC3-30-30-H-3-DFT-PI2BPSK-Outer_Full-7 5@0-Ant5-1--PASS-see graph



1-N48-PC3-30-30-H-5-CP-QPSK-Edge_1RB_Right-1 @77-Ant5-1--PASS-see graph



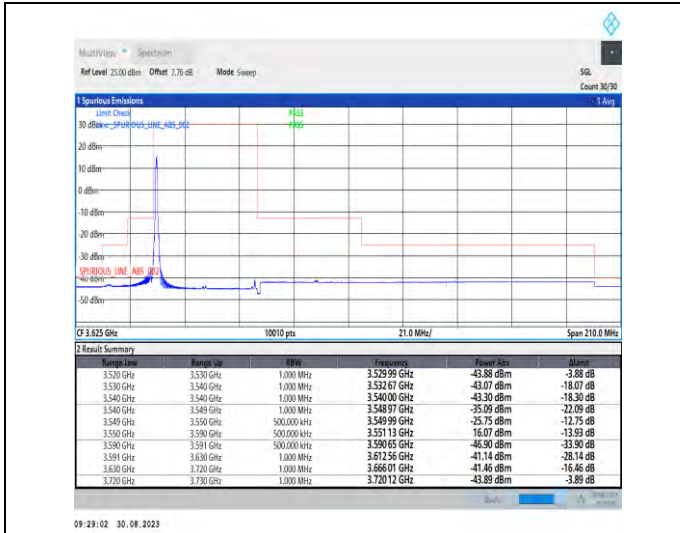
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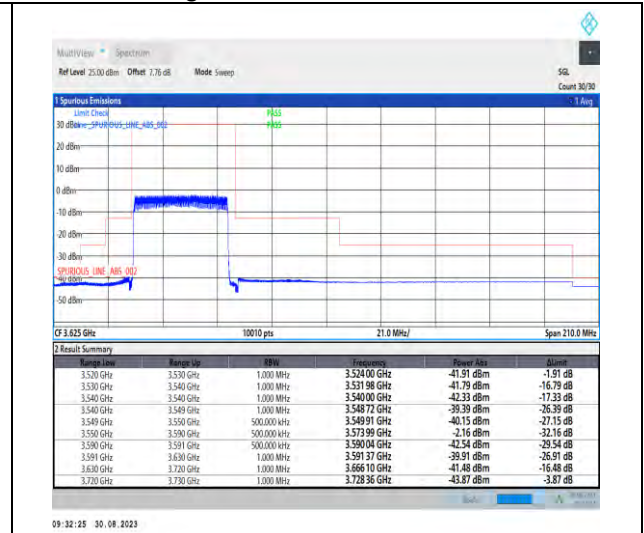
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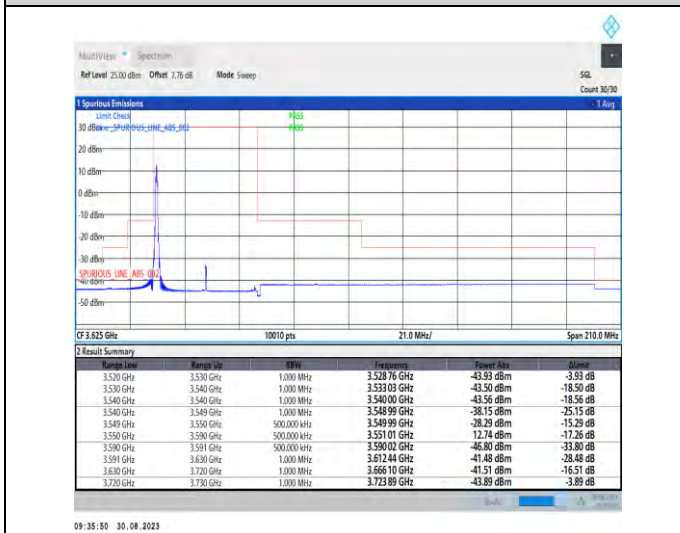
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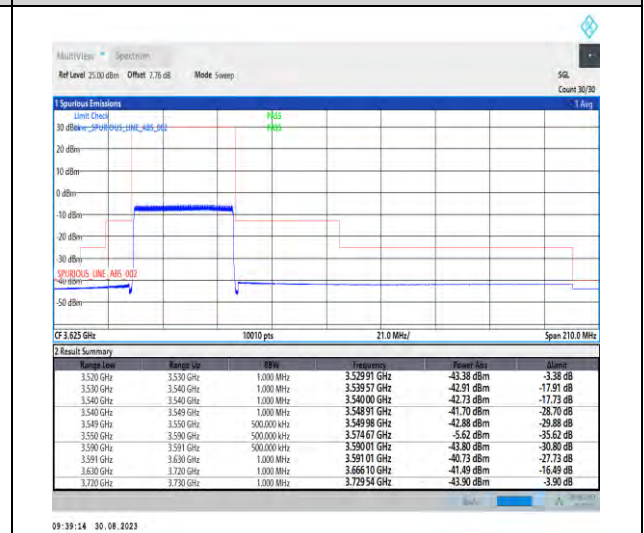
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1-N48-PC3-30-40-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph



1-N48-PC3-30-40-L-6-CP-QPSK-Outer_Full-106@0-Ant5-1--PASS-see graph

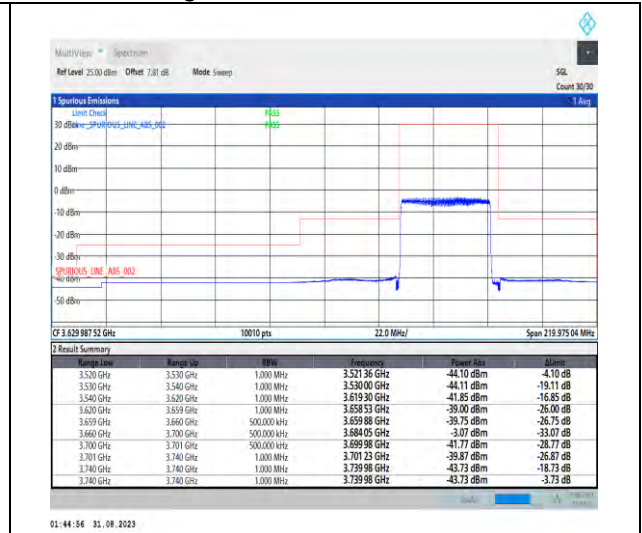
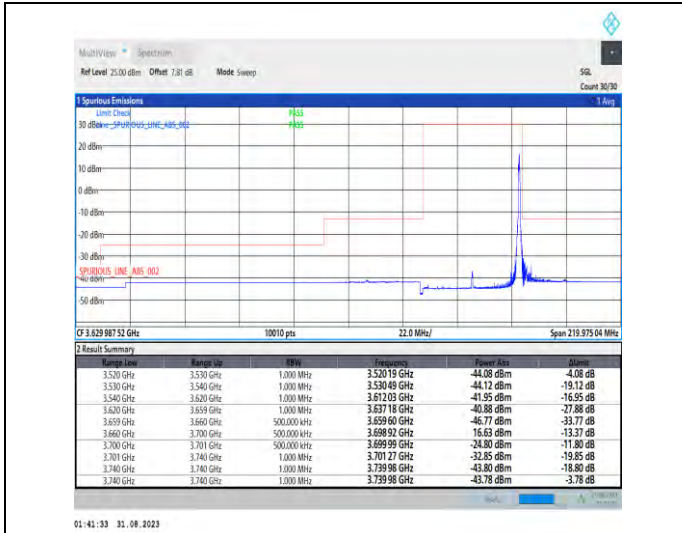


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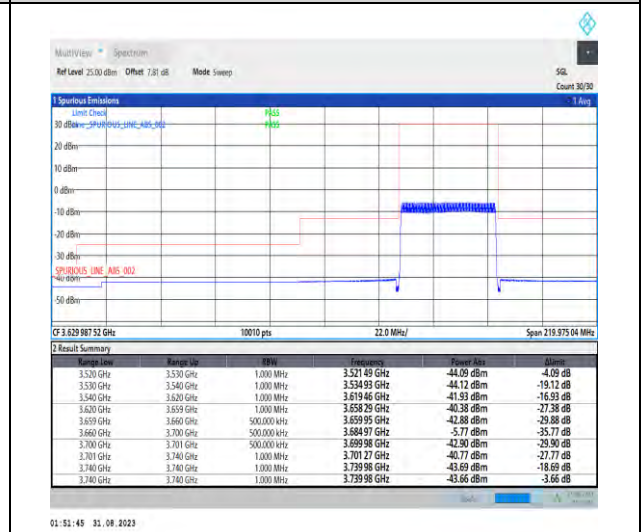
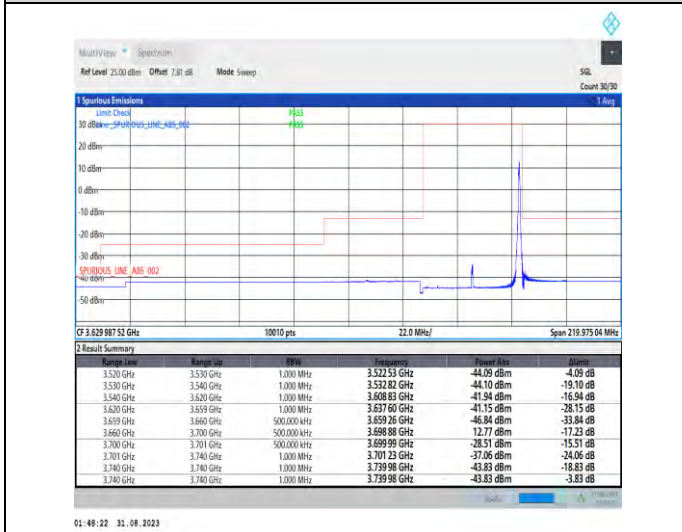
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1-N48-PC3-30-40-H-2-DFT-PI2BPSK-Edge_1RB_Righ t-1@105-Ant5-1--PASS-see graph

1-N48-PC3-30-40-H-3-DFT-PI2BPSK-Outer_Full-1 00@0-Ant5-1--PASS-see graph



1-N48-PC3-30-40-H-5-CP-QPSK-Edge_1RB_Righ t-1@105-Ant5-1--PASS-see graph

1-N48-PC3-30-40-H-6-CP-QPSK-Outer_Full-106 @0-Ant5-1--PASS-see graph



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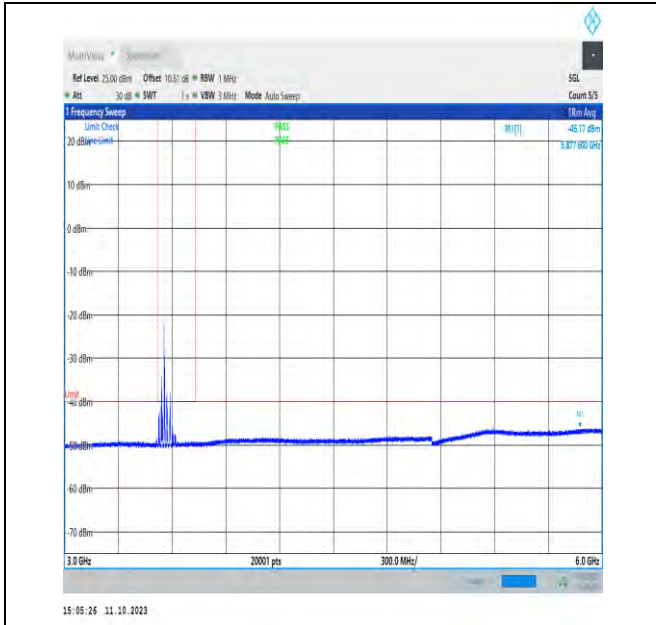
Test Graphs



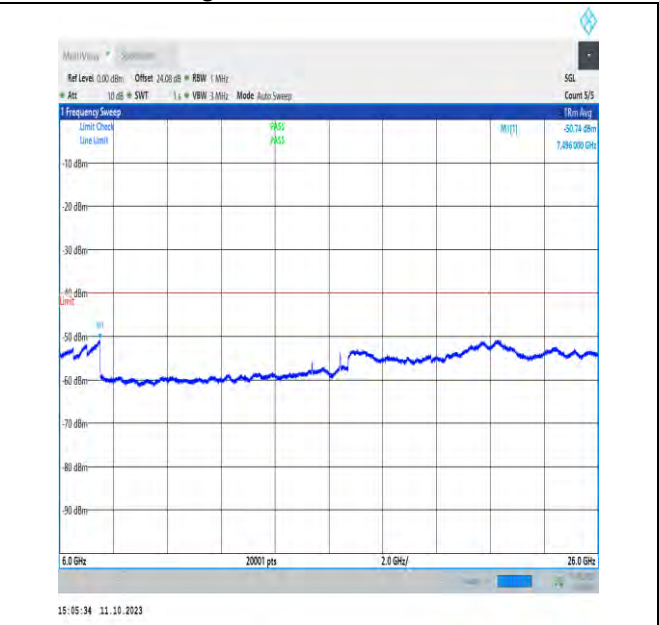
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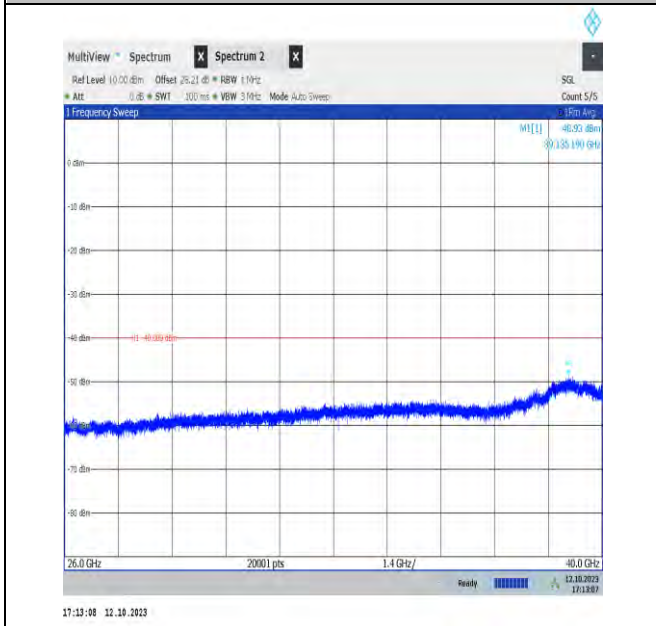
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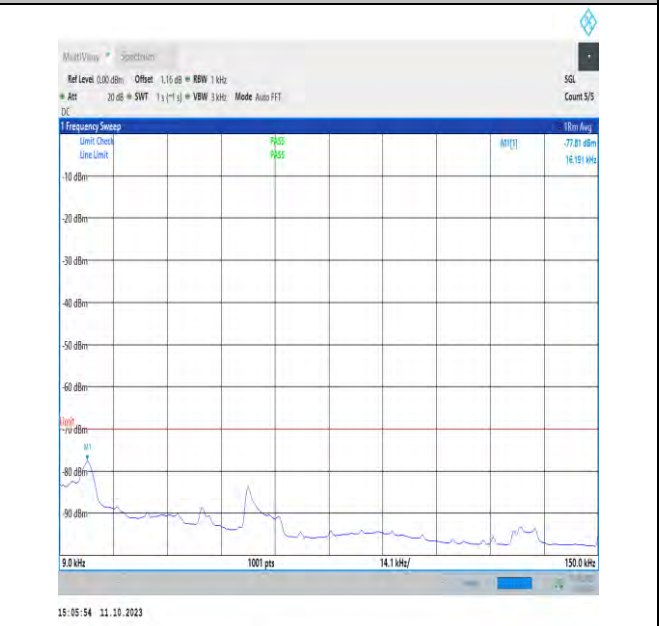
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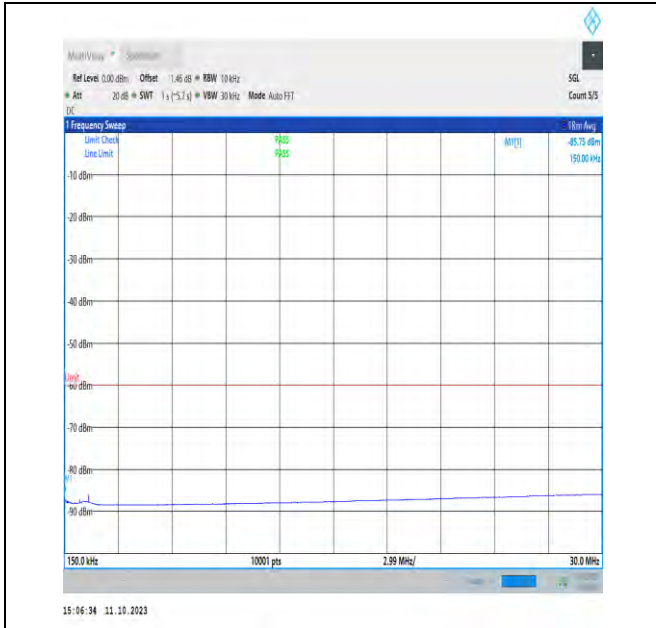


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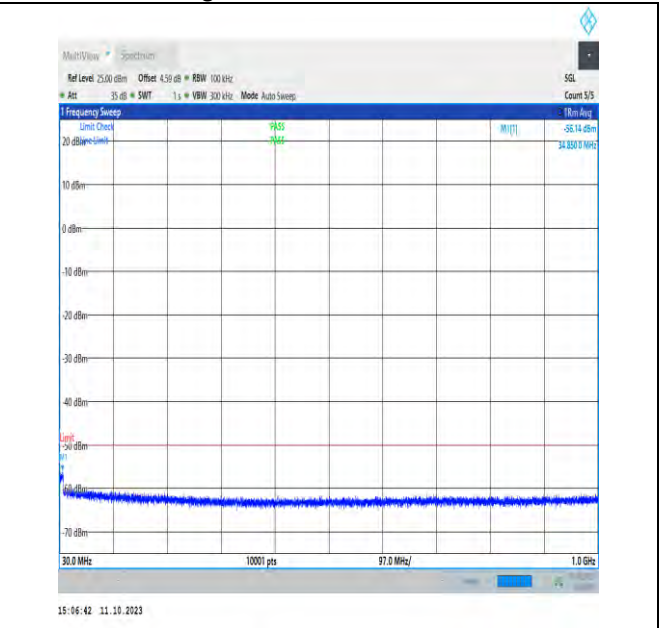


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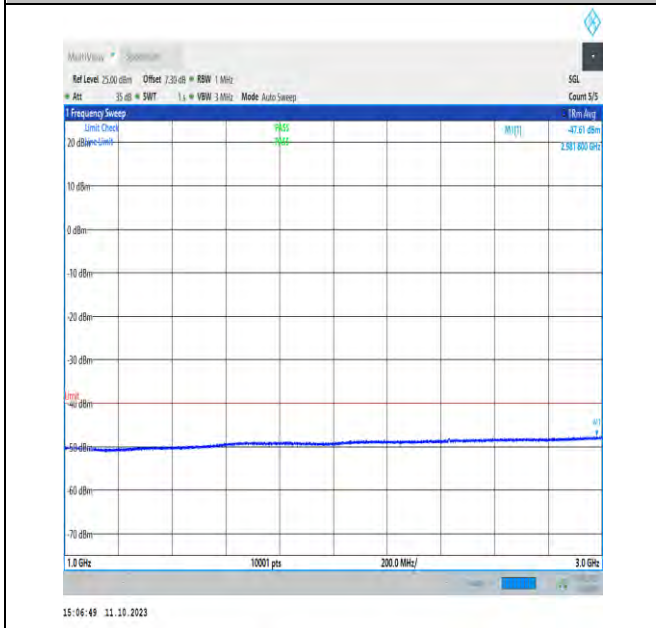
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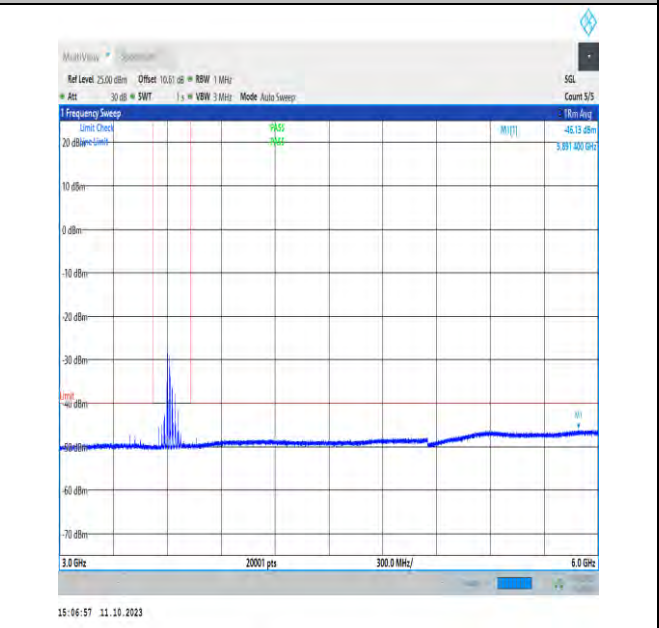
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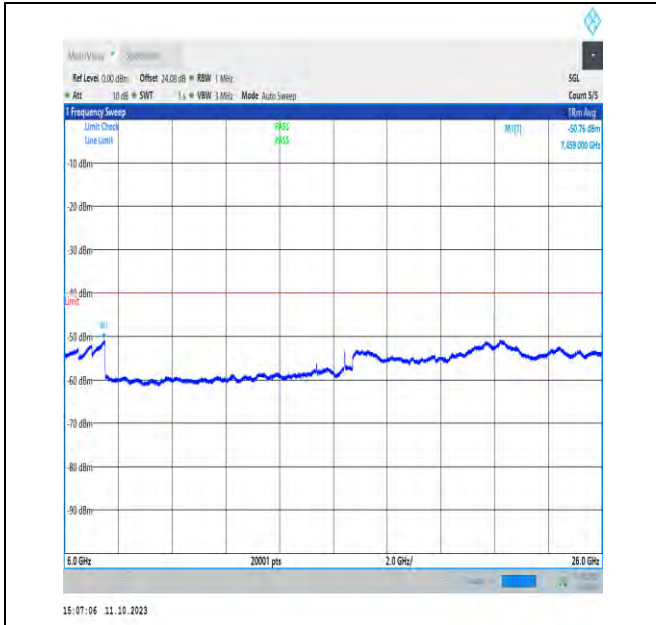


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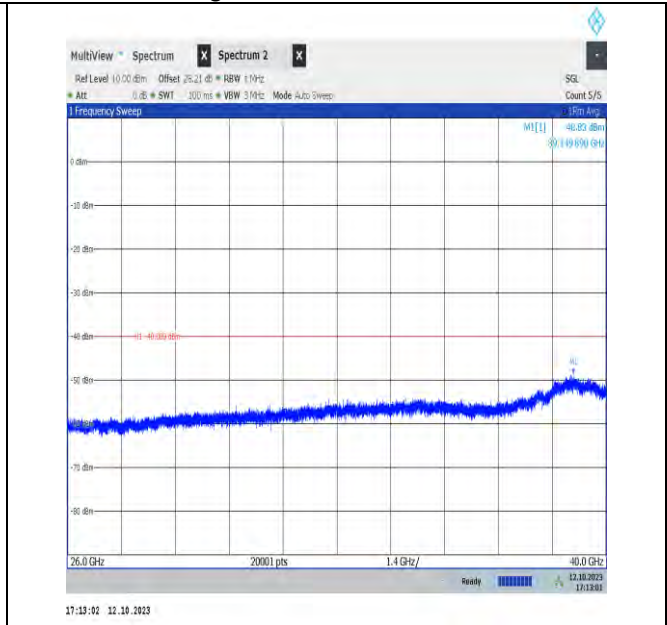


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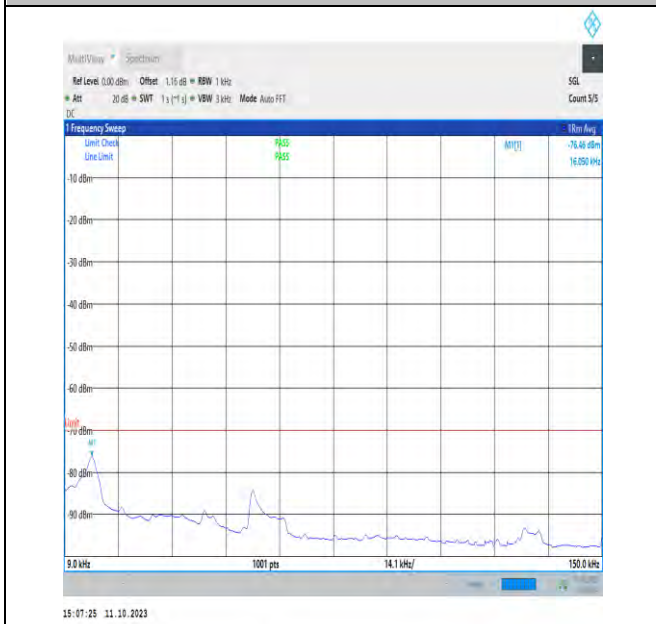
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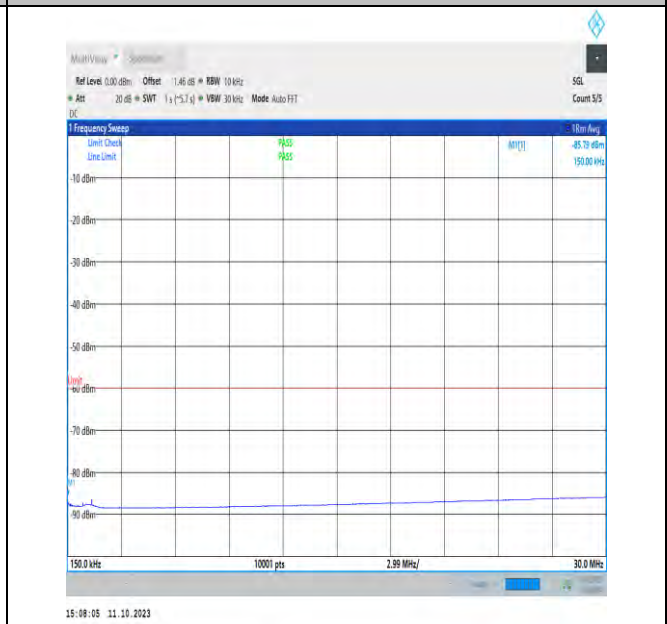
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NTVN_N48_PC3_30_40_H_TID1_NS_01_0.009_0.15_#1



NTVN_N48_PC3_30_40_H_TID1_NS_01_0.15_30_#1



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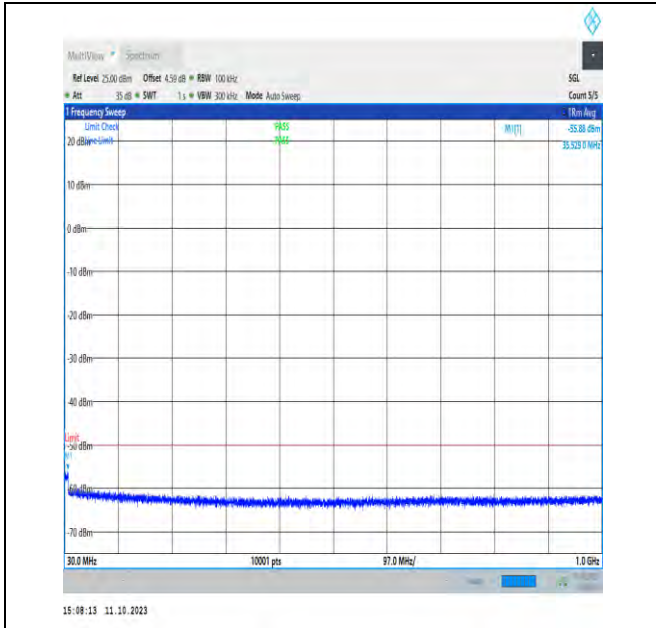
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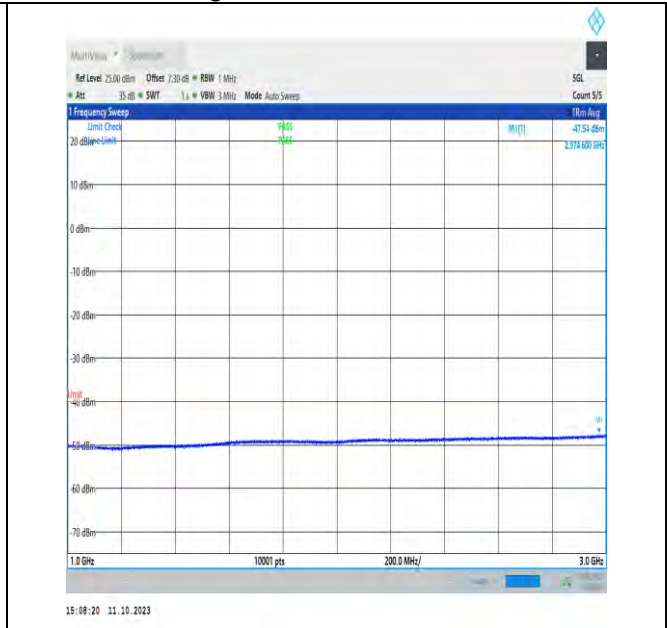
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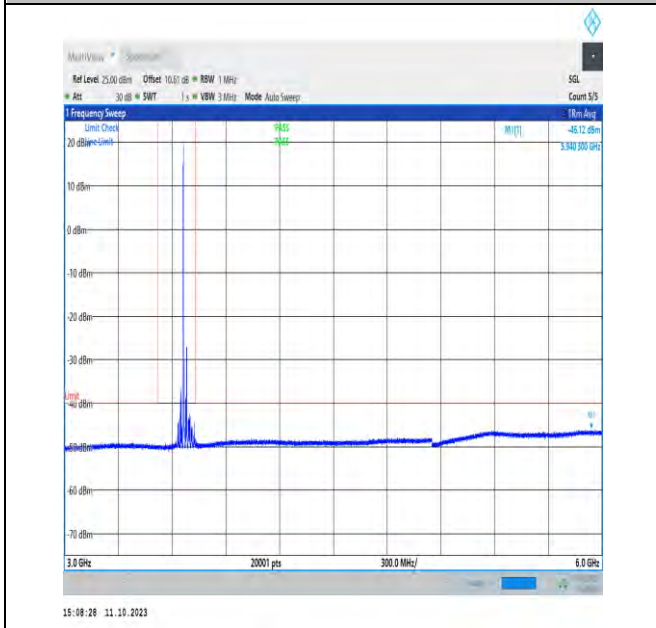
t (86-512) 62992980 sgs.china@sgs.com



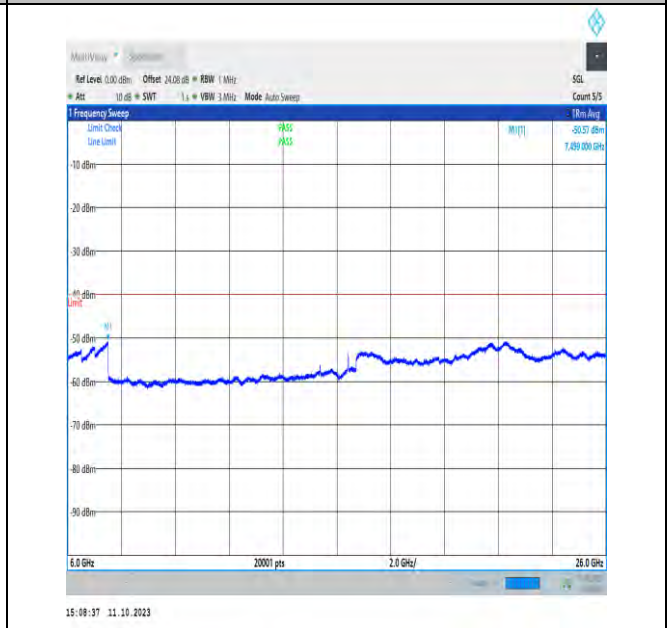
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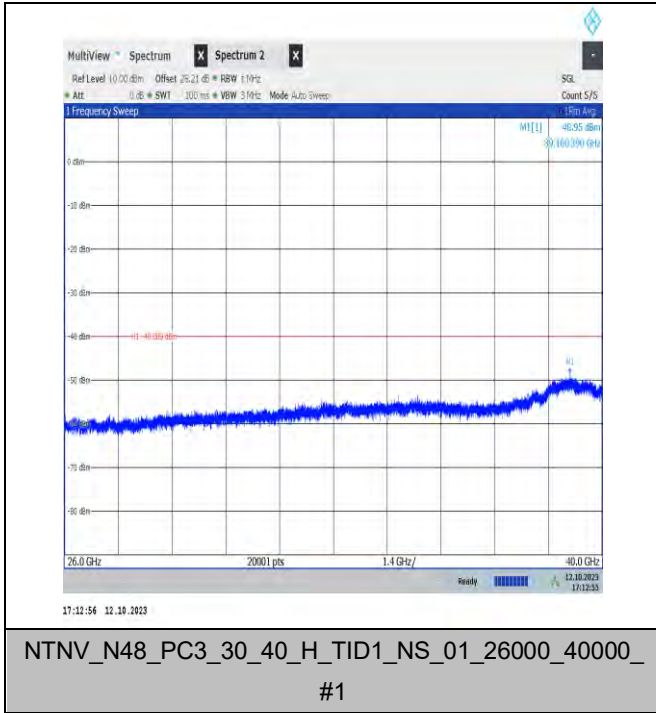
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Field Strength of Spurious Radiation

Test Band = SA Band48_40MHz_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	7010.1800	39.40	-43.06	35.23	-63.69	-40.00	23.69	Horizontal
2	10515.2700	33.04	-38.64	38.46	-62.40	-40.00	22.40	Horizontal
3	12658.825	30.78	-36.98	39.00	-62.46	-40.00	22.46	Horizontal
4	14020.3600	26.23	-35.04	40.91	-63.16	-40.00	23.16	Horizontal
5	16295.7	29.02	-34.44	40.12	-60.56	-40.00	20.56	Horizontal
6	17525.4500	29.15	-33.81	44.67	-55.26	-40.00	15.26	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7010.1800	39.91	-43.06	35.23	-63.18	-40.00	23.18	Vertical
2	10515.2700	32.81	-38.64	38.46	-62.63	-40.00	22.63	Vertical
3	12845.7	30.84	-36.73	39.05	-62.10	-40.00	22.10	Vertical
4	14020.3600	26.22	-35.04	40.91	-63.17	-40.00	23.17	Vertical
5	15821.9	28.01	-33.29	39.57	-60.97	-40.00	20.97	Vertical
6	17525.4500	28.74	-33.81	44.67	-55.67	-40.00	15.67	Vertical



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Test Band = SA Band48_40MHz_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	7160.1800	39.34	-43.63	35.65	-63.90	-40.00	23.90	Horizontal
2	7710.95	40.16	-42.91	36.68	-61.33	-40.00	21.33	Horizontal
3	10740.2700	31.20	-37.89	38.57	-63.38	-40.00	23.38	Horizontal
4	14320.3600	29.11	-35.70	41.03	-60.82	-40.00	20.82	Horizontal
5	15688.5	26.86	-33.39	39.85	-61.93	-40.00	21.93	Horizontal
6	17900.4500	30.55	-34.80	46.35	-53.15	-40.00	13.15	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7160.1800	39.05	-43.63	35.65	-64.19	-40.00	24.19	Vertical
2	7679.325	39.94	-42.91	36.67	-61.55	-40.00	21.55	Vertical
3	10740.2700	32.17	-37.89	38.57	-62.41	-40.00	22.41	Vertical
4	14320.3600	28.04	-35.70	41.03	-61.89	-40.00	21.89	Vertical
5	15315.9	27.95	-33.94	40.64	-60.62	-40.00	20.62	Vertical
6	17900.4500	30.54	-34.80	46.35	-53.16	-40.00	13.16	Vertical



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Test Band = SA Band48_40MHz_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	7310.1800	39.09	-43.27	36.07	-63.37	-40.00	23.37	Horizontal
2	8022.6	38.86	-41.95	36.79	-61.56	-40.00	21.56	Horizontal
3	10965.2700	31.16	-37.67	38.68	-63.08	-40.00	23.08	Horizontal
4	14620.3600	27.24	-35.23	41.15	-62.10	-40.00	22.10	Horizontal
5	15918.5	27.67	-34.28	39.37	-62.50	-40.00	22.50	Horizontal
6	17469.275	30.02	-34.13	44.41	-54.95	-40.00	14.95	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6761.05	41.57	-43.55	34.77	-62.47	-40.00	22.47	Vertical
2	7310.1800	39.10	-43.27	36.07	-63.36	-40.00	23.36	Vertical
3	10965.2700	30.24	-37.67	38.68	-64.00	-40.00	24.00	Vertical
4	14620.3600	27.24	-35.23	41.15	-62.10	-40.00	22.10	Vertical
5	15651.7	26.96	-33.80	39.93	-62.16	-40.00	22.16	Vertical
6	16470.5	30.24	-34.45	40.66	-58.81	-40.00	18.81	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N48	30	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	-4.500000	-0.001241	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	-4.500000	-0.001241	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	-1.500000	-0.000414	PASS
N48	30	40	CP-QPSK	M	Outer_Full	VH	NT	0.400000	0.000110	PASS
N48	30	40	CP-QPSK	M	Outer_Full	VN	NT	-3.300000	-0.000910	PASS
N48	30	40	CP-QPSK	M	Outer_Full	VL	NT	2.500000	0.000690	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	-1.200000	-0.000331	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	-1.400000	-0.000386	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	-1.500000	-0.000414	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	0	-3.700000	-0.001021	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	10	-2.900000	-0.000800	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	20	-2.800000	-0.000772	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	30	-3.400000	-0.000938	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	40	-2.400000	-0.000662	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	50	-2.700000	-0.000745	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	-30	-4.200000	-0.001159	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	-20	-5.000000	-0.001379	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	-10	-3.300000	-0.000910	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	0	-3.500000	-0.000966	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	10	-4.100000	-0.001131	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	20	-2.800000	-0.000772	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	30	-4.200000	-0.001159	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	40	-2.900000	-0.000800	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	50	-2.500000	-0.000690	PASS

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