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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	23.17	22.17	23.00	PASS
N48	30	10	DFT-16QAM	L	Inner_1RB_Left	22.33	21.33	23.00	PASS
N48	30	10	DFT-QPSK	M	Inner_1RB_Left	23.41	22.41	23.00	PASS
N48	30	10	DFT-16QAM	M	Inner_1RB_Left	22.32	21.32	23.00	PASS
N48	30	10	DFT-QPSK	H	Inner_1RB_Left	22.85	21.85	23.00	PASS
N48	30	10	DFT-16QAM	H	Inner_1RB_Left	22.45	21.45	23.00	PASS
N48	30	15	DFT-QPSK	L	Inner_1RB_Left	23.34	22.34	23.00	PASS
N48	30	15	DFT-16QAM	L	Inner_1RB_Left	22.57	21.57	23.00	PASS
N48	30	15	DFT-QPSK	M	Inner_1RB_Left	23.17	22.17	23.00	PASS
N48	30	15	DFT-16QAM	M	Inner_1RB_Left	22.38	21.38	23.00	PASS
N48	30	15	DFT-QPSK	H	Inner_1RB_Left	23.03	22.03	23.00	PASS
N48	30	15	DFT-16QAM	H	Inner_1RB_Left	22.48	21.48	23.00	PASS
N48	30	20	DFT-QPSK	L	Inner_1RB_Left	23.43	22.43	23.00	PASS
N48	30	20	DFT-16QAM	L	Inner_1RB_Left	22.50	21.5	23.00	PASS
N48	30	20	DFT-QPSK	M	Inner_1RB_Left	23.15	22.15	23.00	PASS
N48	30	20	DFT-16QAM	M	Inner_1RB_Left	22.28	21.28	23.00	PASS
N48	30	20	DFT-QPSK	H	Inner_1RB_Left	22.94	21.94	23.00	PASS
N48	30	20	DFT-16QAM	H	Inner_1RB_Left	22.30	21.3	23.00	PASS
N48	30	30	DFT-QPSK	L	Inner_1RB_Left	23.41	22.41	23.00	PASS
N48	30	30	DFT-16QAM	L	Inner_1RB_Left	22.38	21.38	23.00	PASS
N48	30	30	DFT-QPSK	M	Inner_1RB_Left	23.24	22.24	23.00	PASS
N48	30	30	DFT-16QAM	M	Inner_1RB_Left	22.48	21.48	23.00	PASS
N48	30	30	DFT-QPSK	H	Inner_1RB_Left	23.06	22.06	23.00	PASS
N48	30	30	DFT-16QAM	H	Inner_1RB_Left	22.36	21.36	23.00	PASS
N48	30	40	DFT-PI2BPSK	L	Inner_1RB_Left	23.17	22.17	23.00	PASS
N48	30	40	DFT-PI2BPSK	L	Inner_1RB_Right	23.39	22.39	23.00	PASS
N48	30	40	DFT-PI2BPSK	L	Outer_Full	22.96	21.96	23.00	PASS
N48	30	40	DFT-QPSK	L	Inner_1RB_Left	23.59	22.59	23.00	PASS
N48	30	40	DFT-QPSK	L	Inner_1RB_Right	23.32	22.32	23.00	PASS



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N48	30	40	DFT-QPSK	L	Outer_Full	22.52	21.52	23.00	PASS
N48	30	40	DFT-16QAM	L	Inner_1RB_Left	22.73	21.73	23.00	PASS
N48	30	40	DFT-16QAM	L	Inner_1RB_Right	22.51	21.51	23.00	PASS
N48	30	40	DFT-16QAM	L	Outer_Full	21.54	20.54	23.00	PASS
N48	30	40	DFT-64QAM	L	Inner_1RB_Left	20.87	19.87	23.00	PASS
N48	30	40	DFT-64QAM	L	Inner_1RB_Right	20.73	19.73	23.00	PASS
N48	30	40	DFT-64QAM	L	Outer_Full	20.32	19.32	23.00	PASS
N48	30	40	DFT-256QAM	L	Inner_1RB_Left	19.23	18.23	23.00	PASS
N48	30	40	DFT-256QAM	L	Inner_1RB_Right	19.36	18.36	23.00	PASS
N48	30	40	DFT-256QAM	L	Outer_Full	18.79	17.79	23.00	PASS
N48	30	40	DFT-PI2BPSK	M	Inner_1RB_Left	22.92	21.92	23.00	PASS
N48	30	40	DFT-PI2BPSK	M	Inner_1RB_Right	23.04	22.04	23.00	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	22.53	21.53	23.00	PASS
N48	30	40	DFT-QPSK	M	Inner_1RB_Left	23.28	22.28	23.00	PASS
N48	30	40	DFT-QPSK	M	Inner_1RB_Right	23	22	23.00	PASS
N48	30	40	DFT-QPSK	M	Outer_Full	22.22	21.22	23.00	PASS
N48	30	40	DFT-16QAM	M	Inner_1RB_Left	22.34	21.34	23.00	PASS
N48	30	40	DFT-16QAM	M	Inner_1RB_Right	22.29	21.29	23.00	PASS
N48	30	40	DFT-16QAM	M	Outer_Full	21.3	20.3	23.00	PASS
N48	30	40	DFT-64QAM	M	Inner_1RB_Left	20.56	19.56	23.00	PASS
N48	30	40	DFT-64QAM	M	Inner_1RB_Right	20.57	19.57	23.00	PASS
N48	30	40	DFT-64QAM	M	Outer_Full	20.08	19.08	23.00	PASS
N48	30	40	DFT-256QAM	M	Inner_1RB_Left	18.97	17.97	23.00	PASS
N48	30	40	DFT-256QAM	M	Inner_1RB_Right	19.05	18.05	23.00	PASS
N48	30	40	DFT-256QAM	M	Outer_Full	18.74	17.74	23.00	PASS
N48	30	40	DFT-PI2BPSK	H	Inner_1RB_Left	22.95	21.95	23.00	PASS
N48	30	40	DFT-PI2BPSK	H	Inner_1RB_Right	22.98	21.98	23.00	PASS
N48	30	40	DFT-PI2BPSK	H	Outer_Full	22.57	21.57	23.00	PASS
N48	30	40	DFT-QPSK	H	Inner_1RB_Left	23.28	22.28	23.00	PASS
N48	30	40	DFT-QPSK	H	Inner_1RB_Right	22.94	21.94	23.00	PASS
N48	30	40	DFT-QPSK	H	Outer_Full	22.28	21.28	23.00	PASS
N48	30	40	DFT-16QAM	H	Inner_1RB_Left	22.29	21.29	23.00	PASS
N48	30	40	DFT-16QAM	H	Inner_1RB_Right	22.29	21.29	23.00	PASS
N48	30	40	DFT-16QAM	H	Outer_Full	21.34	20.34	23.00	PASS
N48	30	40	DFT-64QAM	H	Inner_1RB_Left	20.53	19.53	23.00	PASS
N48	30	40	DFT-64QAM	H	Inner_1RB_Right	20.58	19.58	23.00	PASS
N48	30	40	DFT-64QAM	H	Outer_Full	20.08	19.08	23.00	PASS



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N48	30	40	DFT-256QAM	H	Inner_1RB_Left	18.9	17.9	23.00	PASS
N48	30	40	DFT-256QAM	H	Inner_1RB_Right	19.11	18.11	23.00	PASS
N48	30	40	DFT-256QAM	H	Outer_Full	18.72	17.72	23.00	PASS



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Peak-to-Average Ratio for SA

Test Result

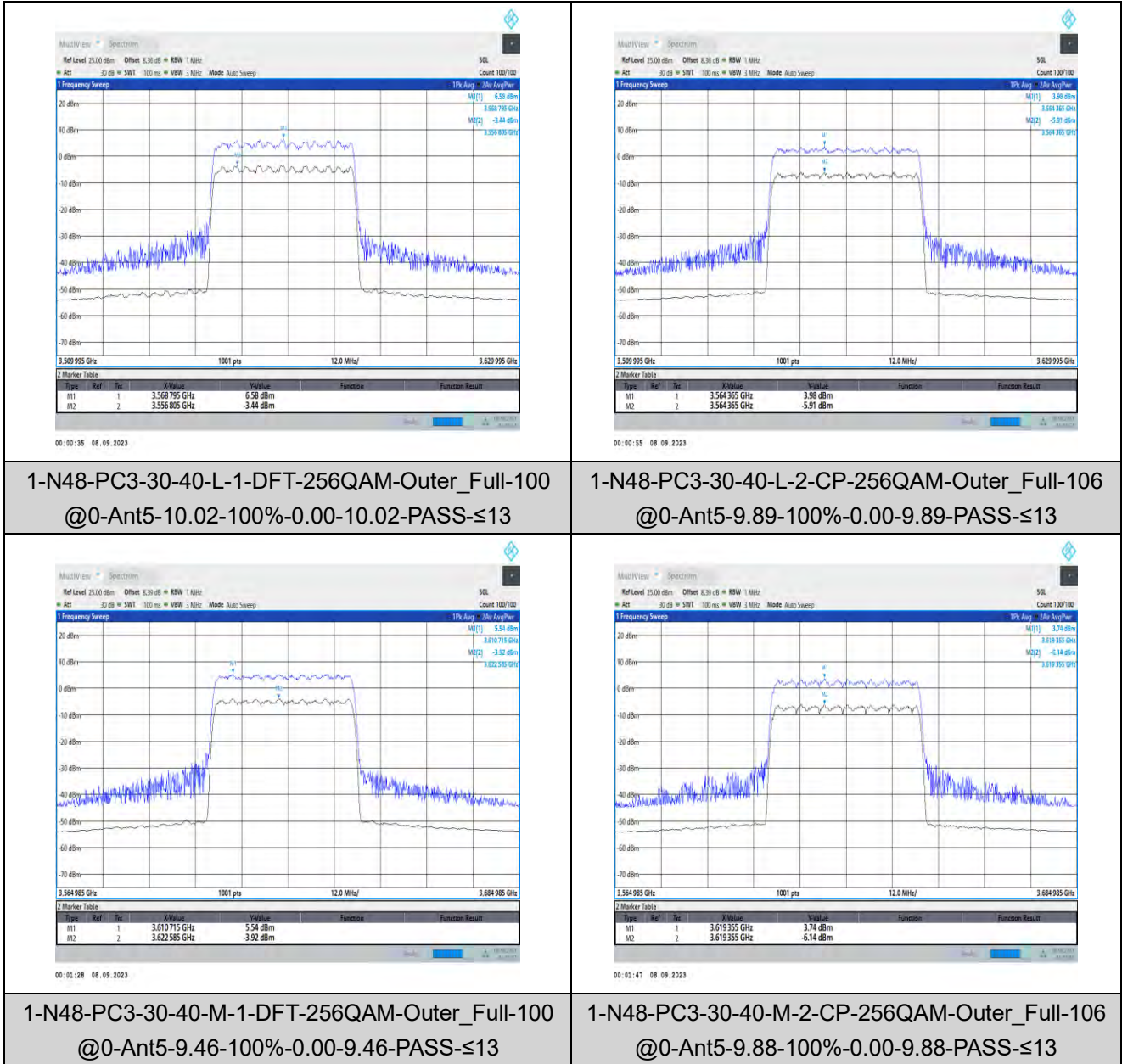
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N48	30	40	DFT-256QAM	L	Outer_Full	10.02	≤13	PASS
N48	30	40	CP-256QAM	L	Outer_Full	9.89	≤13	PASS
N48	30	40	DFT-256QAM	M	Outer_Full	9.46	≤13	PASS
N48	30	40	CP-256QAM	M	Outer_Full	9.88	≤13	PASS
N48	30	40	DFT-256QAM	H	Outer_Full	9.58	≤13	PASS
N48	30	40	CP-256QAM	H	Outer_Full	9.64	≤13	PASS



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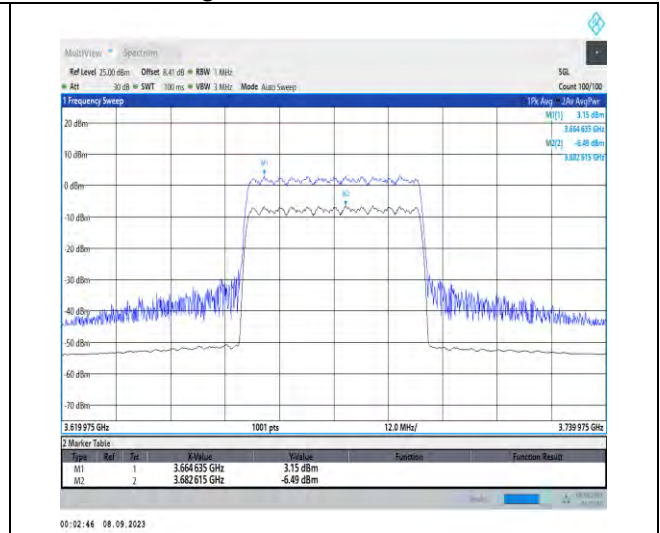
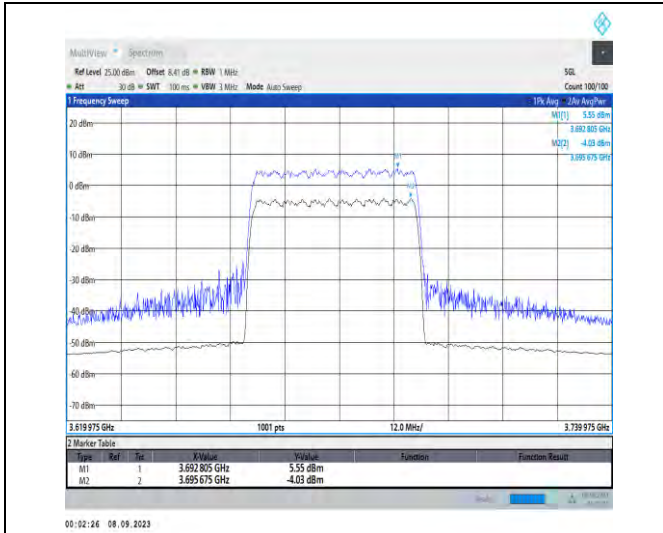
Test Graphs



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1-N48-PC3-30-40-H-1-DFT-256QAM-Outer_Full-100
@0-Ant5-9.58-100%-0.00-9.58-PASS≤13

1-N48-PC3-30-40-H-2-CP-256QAM-Outer_Full-106
@0-Ant5-9.64-100%-0.00-9.64-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	8.554	9.200	PASS
N48	30	10	DFT-PI2BPSK	M	Outer_Full	8.58	9.140	PASS
N48	30	10	DFT-16QAM	M	Outer_Full	8.595	9.080	PASS
N48	30	10	DFT-64QAM	M	Outer_Full	8.539	9.080	PASS
N48	30	10	DFT-256QAM	M	Outer_Full	8.616	9.000	PASS
N48	30	10	CP-QPSK	M	Outer_Full	8.566	9.060	PASS
N48	30	10	CP-16QAM	M	Outer_Full	8.578	9.040	PASS
N48	30	10	CP-64QAM	M	Outer_Full	8.607	9.400	PASS
N48	30	10	CP-256QAM	M	Outer_Full	8.585	9.140	PASS
N48	30	15	DFT-QPSK	M	Outer_Full	12.892	13.590	PASS
N48	30	15	DFT-PI2BPSK	M	Outer_Full	12.875	13.620	PASS
N48	30	15	DFT-16QAM	M	Outer_Full	12.852	13.620	PASS
N48	30	15	DFT-64QAM	M	Outer_Full	12.853	13.530	PASS
N48	30	15	DFT-256QAM	M	Outer_Full	12.854	13.680	PASS
N48	30	15	CP-QPSK	M	Outer_Full	13.513	14.340	PASS
N48	30	15	CP-16QAM	M	Outer_Full	13.602	14.460	PASS
N48	30	15	CP-64QAM	M	Outer_Full	13.612	14.250	PASS
N48	30	15	CP-256QAM	M	Outer_Full	13.585	14.460	PASS
N48	30	20	DFT-QPSK	M	Outer_Full	17.828	18.840	PASS
N48	30	20	DFT-PI2BPSK	M	Outer_Full	17.753	18.600	PASS
N48	30	20	DFT-16QAM	M	Outer_Full	17.806	18.640	PASS
N48	30	20	DFT-64QAM	M	Outer_Full	17.856	19.040	PASS
N48	30	20	DFT-256QAM	M	Outer_Full	17.705	18.640	PASS
N48	30	20	CP-QPSK	M	Outer_Full	18.243	18.880	PASS
N48	30	20	CP-16QAM	M	Outer_Full	18.26	19.120	PASS
N48	30	20	CP-64QAM	M	Outer_Full	18.185	19.160	PASS
N48	30	20	CP-256QAM	M	Outer_Full	18.188	19.000	PASS
N48	30	30	DFT-QPSK	M	Outer_Full	26.823	27.900	PASS
N48	30	30	DFT-PI2BPSK	M	Outer_Full	26.691	28.080	PASS



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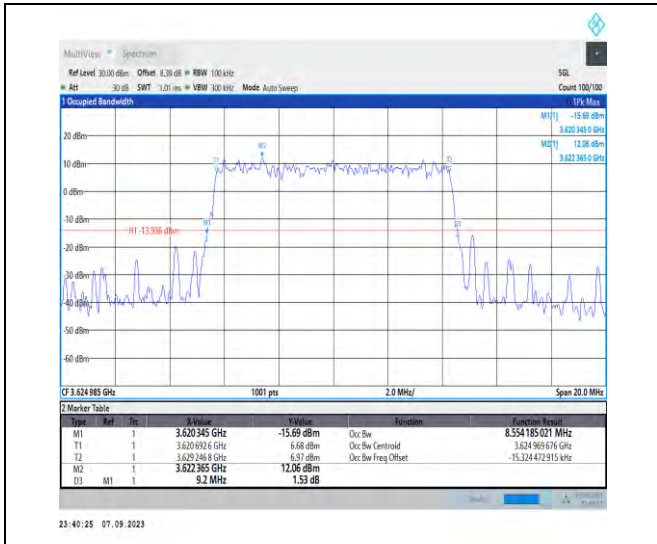
N48	30	30	DFT-16QAM	M	Outer_Full	26.754	28.140	PASS
N48	30	30	DFT-64QAM	M	Outer_Full	26.745	28.140	PASS
N48	30	30	DFT-256QAM	M	Outer_Full	26.707	27.840	PASS
N48	30	30	CP-QPSK	M	Outer_Full	27.767	29.100	PASS
N48	30	30	CP-16QAM	M	Outer_Full	27.785	29.280	PASS
N48	30	30	CP-64QAM	M	Outer_Full	27.665	28.920	PASS
N48	30	30	CP-256QAM	M	Outer_Full	27.813	29.040	PASS
N48	30	40	DFT-QPSK	M	Outer_Full	35.837	37.200	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	35.742	37.280	PASS
N48	30	40	DFT-16QAM	M	Outer_Full	35.74	37.680	PASS
N48	30	40	DFT-64QAM	M	Outer_Full	35.661	37.520	PASS
N48	30	40	DFT-256QAM	M	Outer_Full	35.736	39.040	PASS
N48	30	40	CP-QPSK	M	Outer_Full	37.787	39.360	PASS
N48	30	40	CP-16QAM	M	Outer_Full	37.802	39.360	PASS
N48	30	40	CP-64QAM	M	Outer_Full	37.776	39.360	PASS
N48	30	40	CP-256QAM	M	Outer_Full	37.761	41.280	PASS



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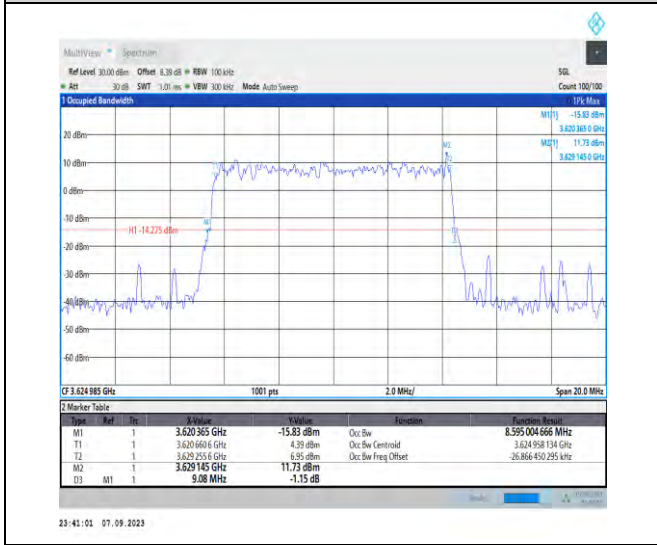
Test Graphs



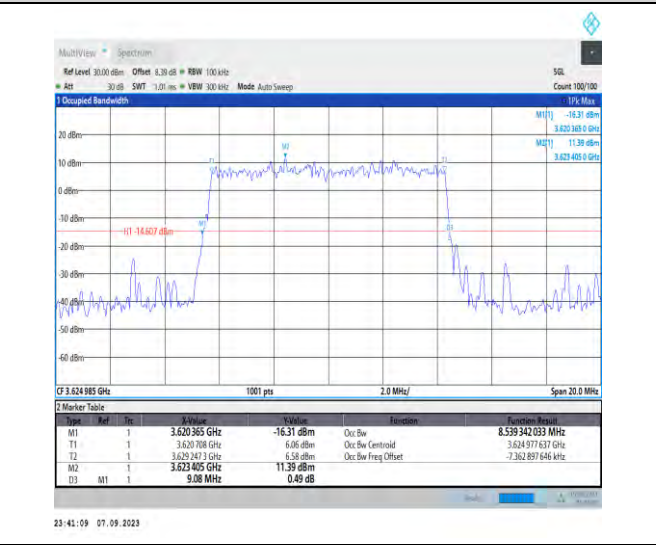
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 @0-Ant5-8.58-9.140-≤10-PASS



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 -Ant5-8.595-9.080-≤10-PASS



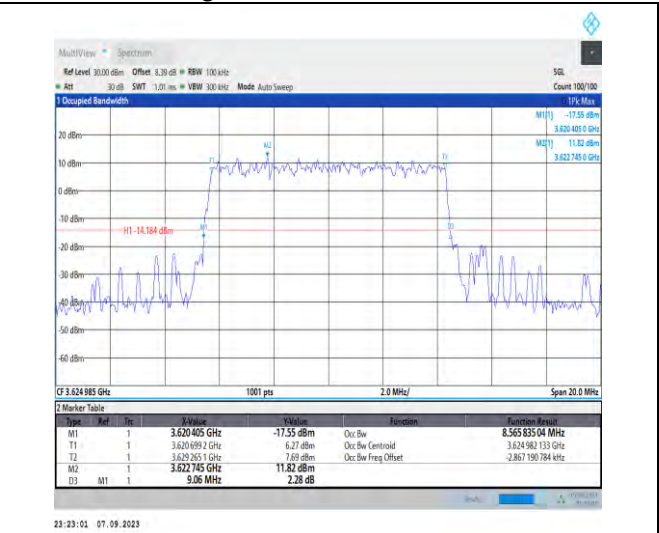
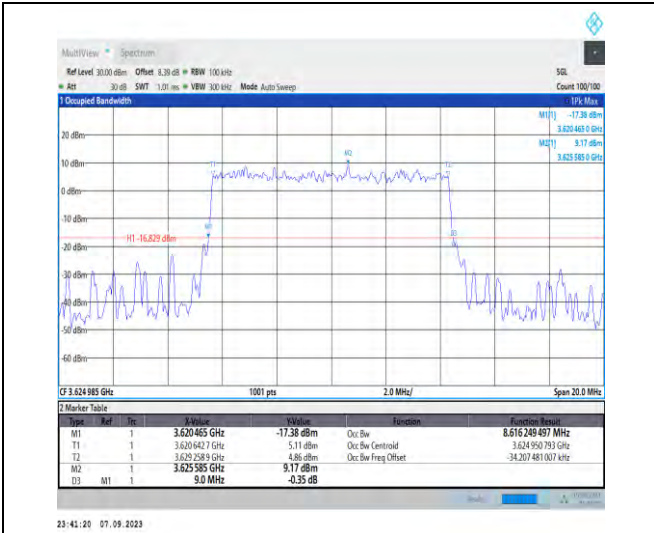
1-N48-PC3-30-10-M-4-DFT-64QAM-Outer_Full-24@0
 -Ant5-8.539-9.080-≤10-PASS



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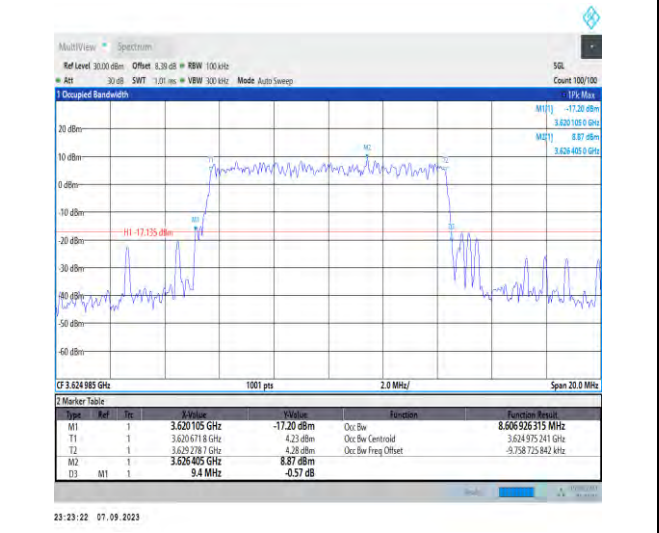
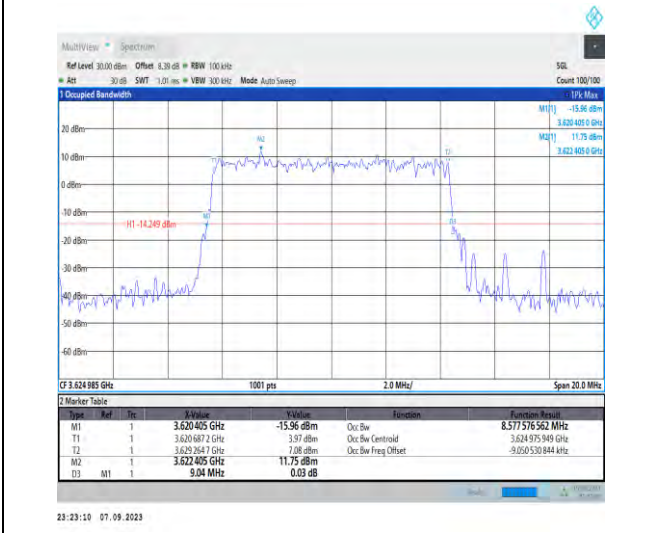
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1-N48-PC3-30-10-M-5-DFT-256QAM-Outer_Full-24@0-Ant5-8.616-9.000-≤10-PASS

1-N48-PC3-30-10-M-6-CP-QPSK-Outer_Full-24@0-Ant5-8.566-9.060-≤10-PASS



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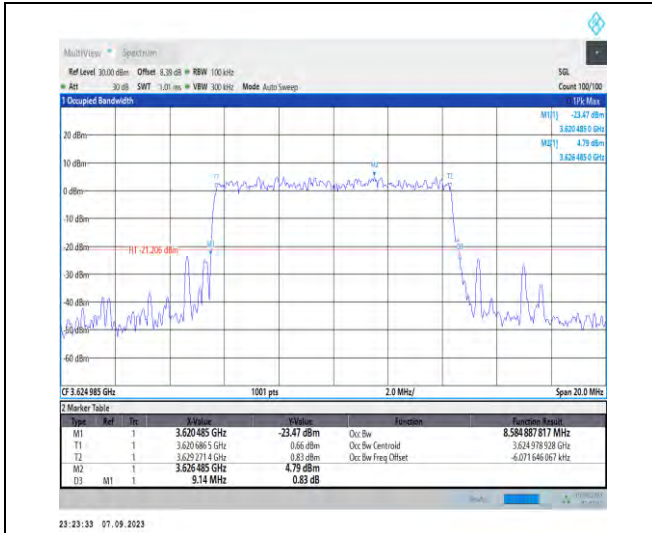
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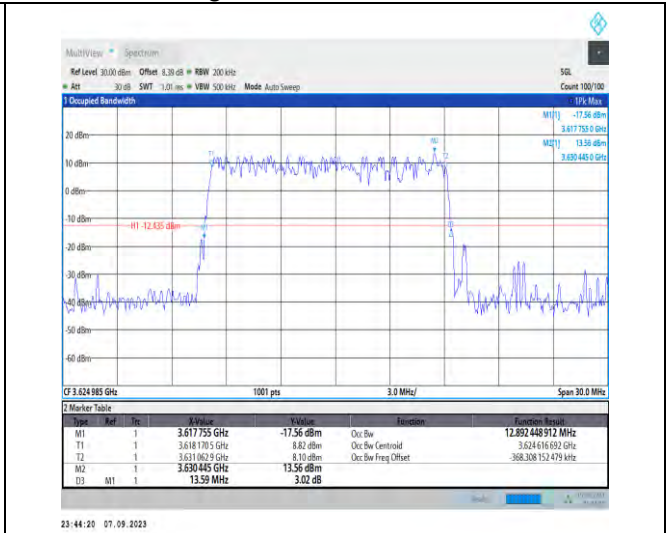
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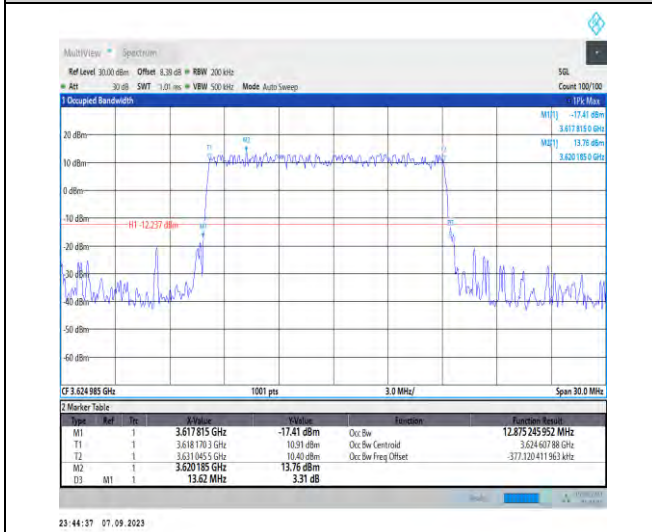
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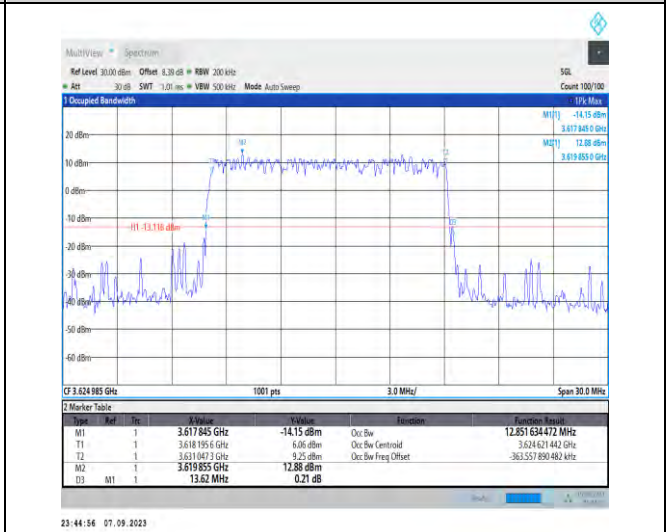
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0-Ant5-8.585-9.140-≤10-PASS



1-N48-PC3-30-15-M-1-DFT-QPSK-Outer_Full-36@
0-Ant5-12.892-13.590-≤15-PASS



1-N48-PC3-30-15-M-2-DFT-PI2BPSK-Outer_Full-36@
0-Ant5-12.875-13.620-≤15-PASS



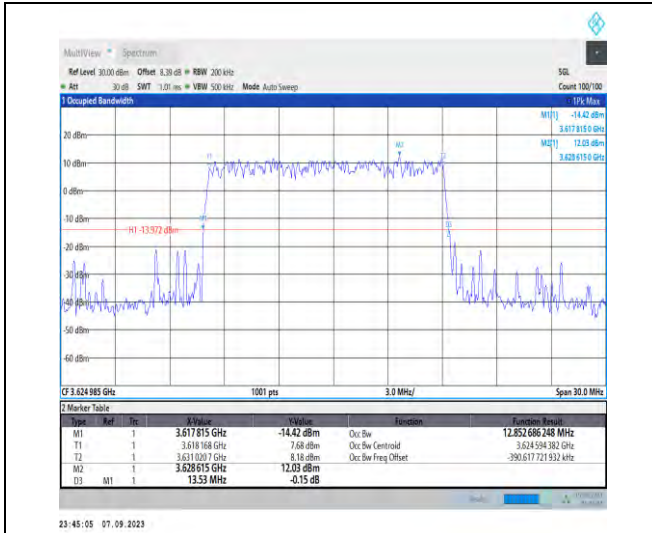
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0-Ant5-12.852-13.620-≤15-PASS



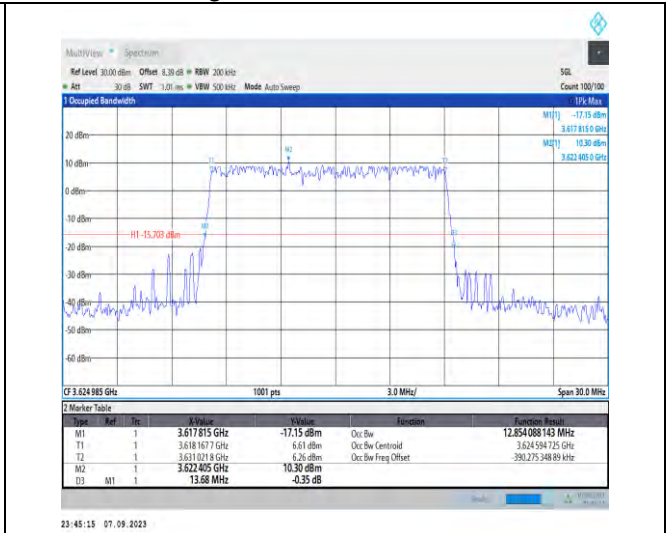
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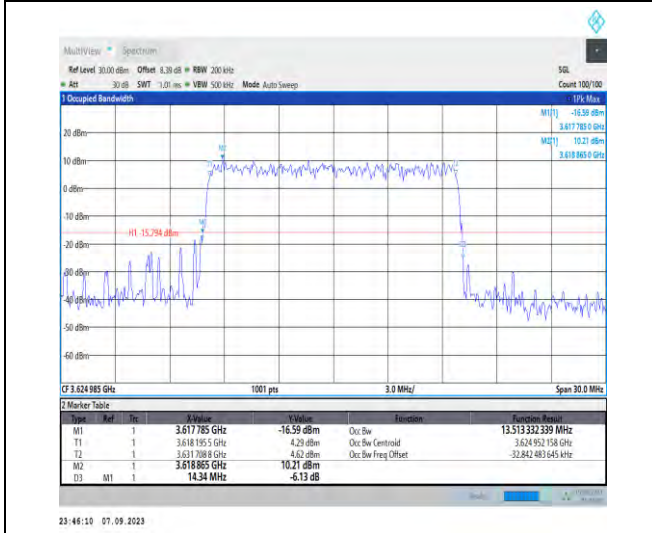
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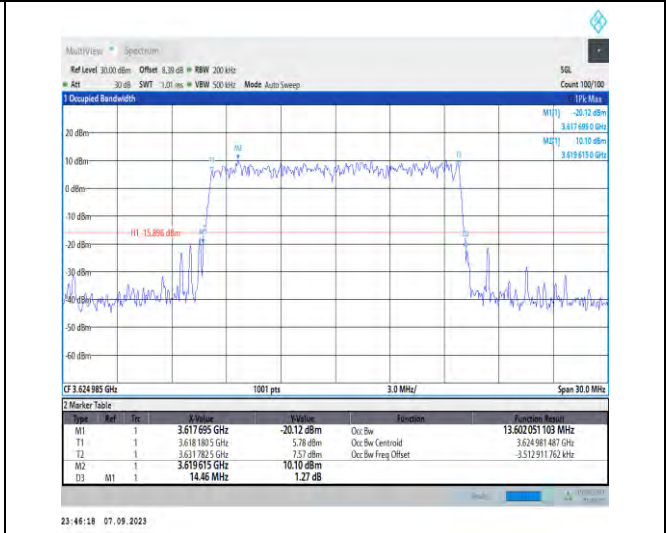
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0-Ant5-12.853-13.530-≤15-PASS



1-N48-PC3-30-15-M-5-DFT-256QAM-Outer_Full-36@
0-Ant5-12.854-13.680-≤15-PASS



1-N48-PC3-30-15-M-6-CP-QPSK-Outer_Full-38@0-
Ant5-13.513-14.340-≤15-PASS



1-N48-PC3-30-15-M-7-CP-16QAM-Outer_Full-38@0-
Ant5-13.602-14.460-≤15-PASS



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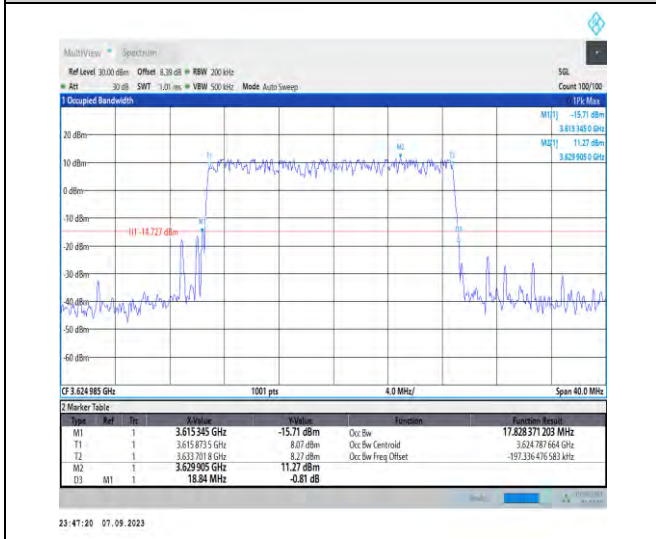
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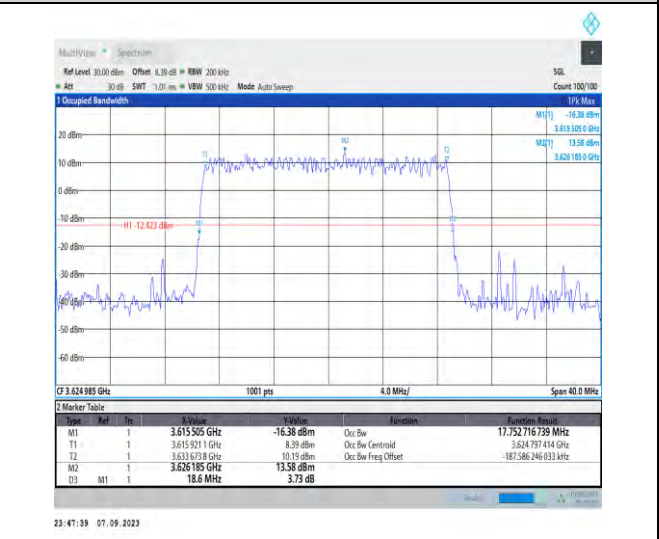
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-Ant5-13.612-14.250-≤15-PASS



1-N48-PC3-30-15-M-9-CP-256QAM-Outer_Full-38@0
-Ant5-13.585-14.460-≤15-PASS



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-Ant5-17.828-18.840-≤20-PASS



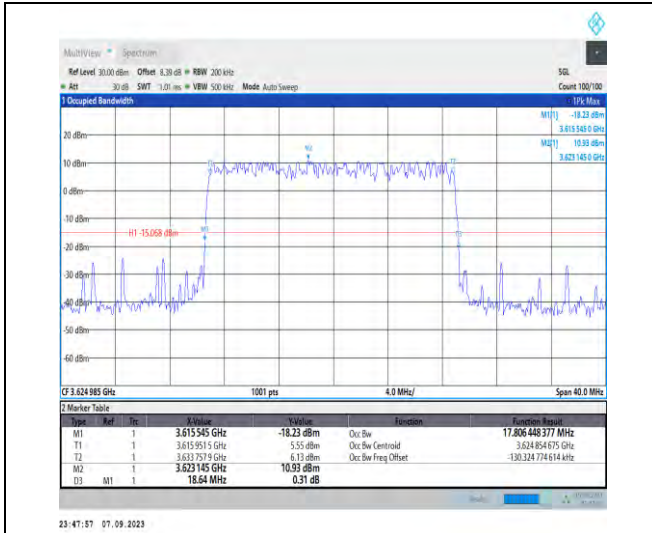
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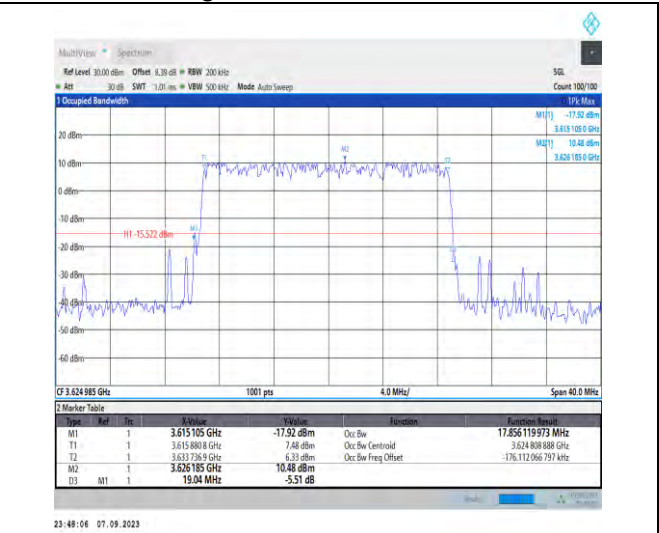
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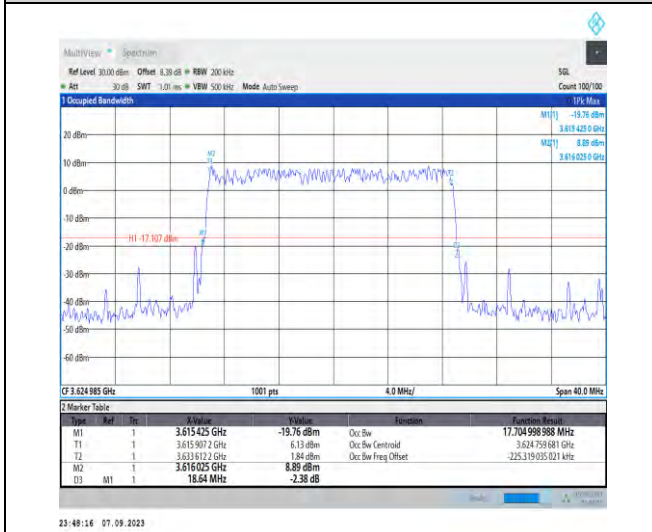
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1-N48-PC3-30-20-M-3-DFT-16QAM-Outer_Full-50@
0-Ant5-17.806-18.640-≤20-PASS



1-N48-PC3-30-20-M-4-DFT-64QAM-Outer_Full-50@
0-Ant5-17.856-19.040-≤20-PASS



1-N48-PC3-30-20-M-5-DFT-256QAM-Outer_Full-50@
0-Ant5-17.705-18.640-≤20-PASS



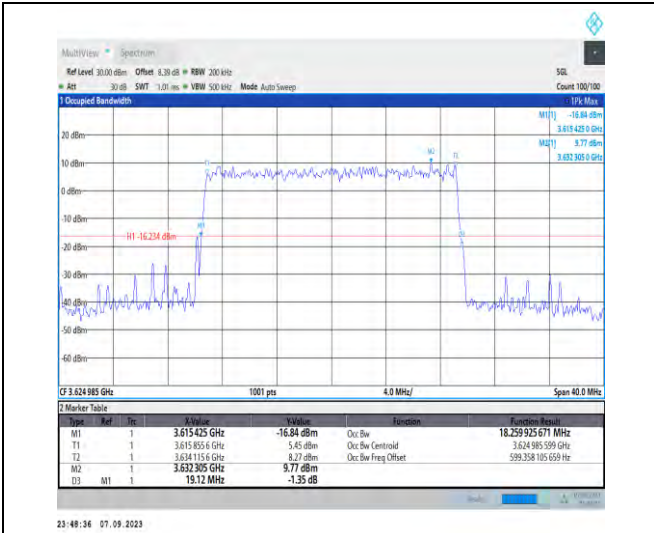
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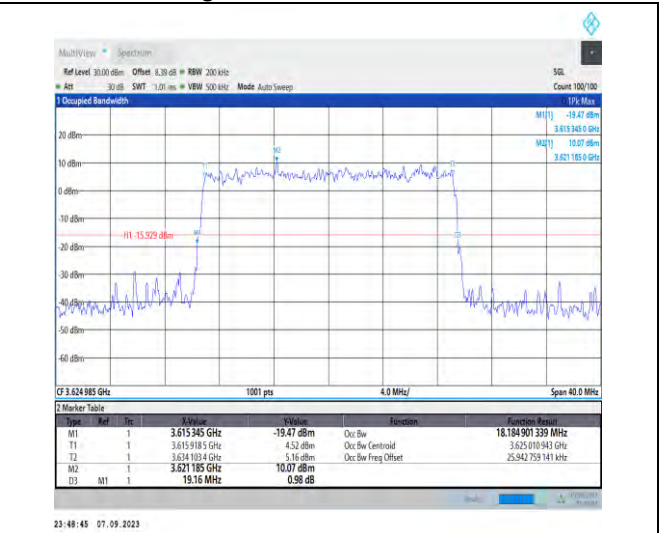
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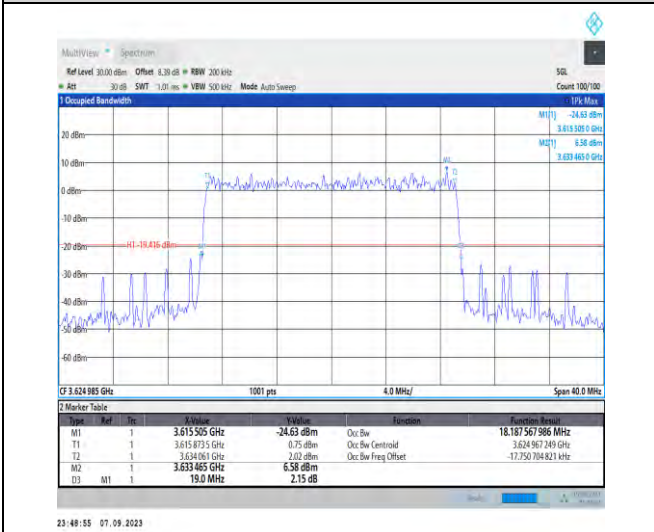
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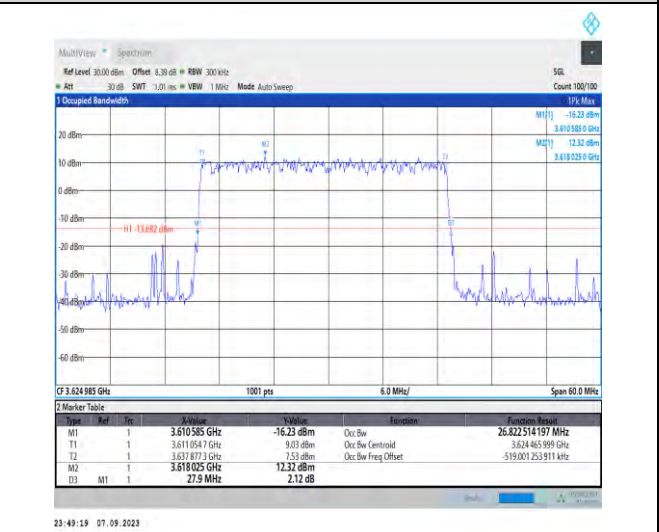
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-Ant5-18.185-19.160-≤20-PASS



1-N48-PC3-30-20-M-9-CP-256QAM-Outer_Full-51@0
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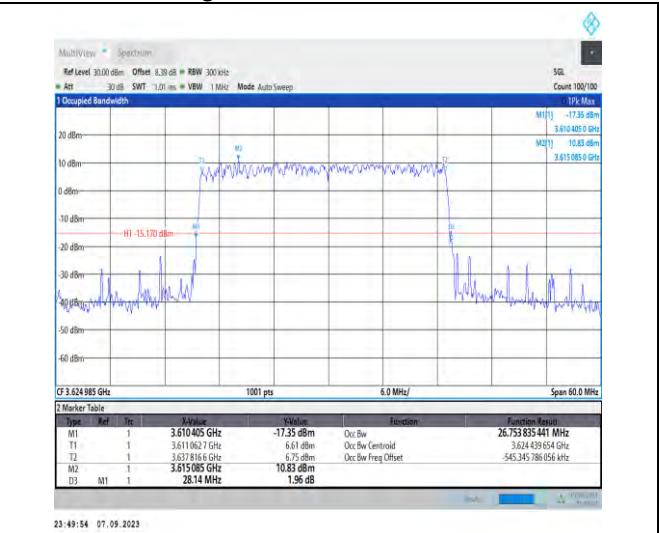
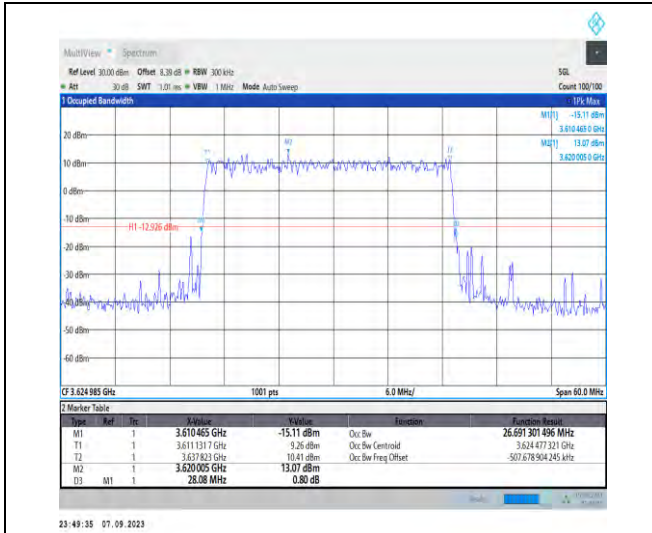
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-Ant5-26.823-27.900-≤30-PASS



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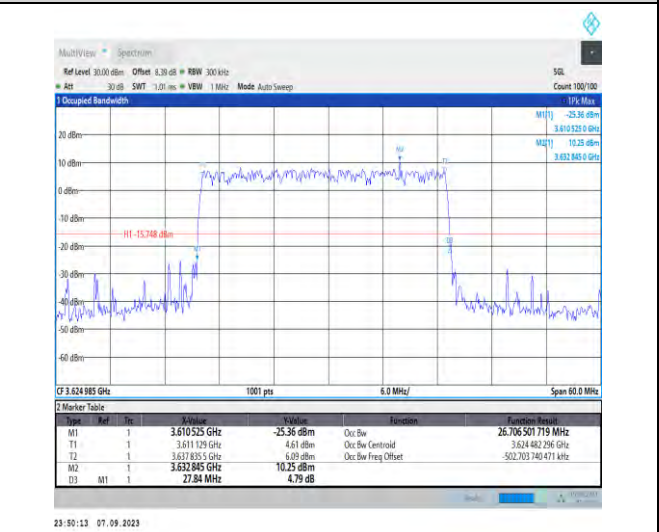
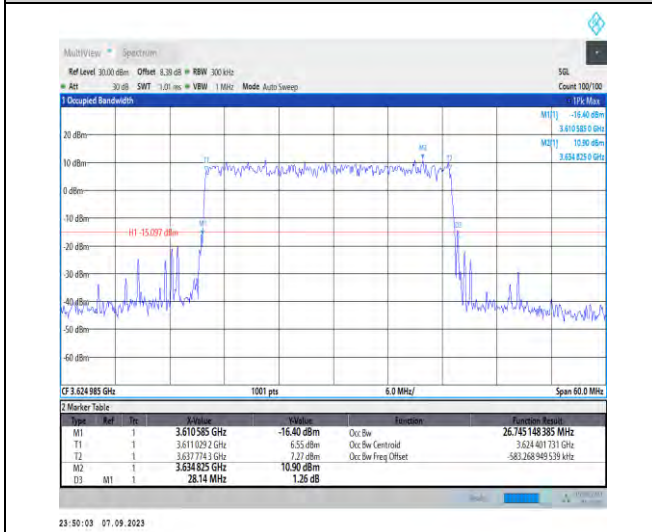
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1-N48-PC3-30-30-M-2-DFT-PI2BPSK-Outer_Full-75 @0-Ant5-26.691-28.080-≤30-PASS

1-N48-PC3-30-30-M-3-DFT-16QAM-Outer_Full-75 @0-Ant5-26.754-28.140-≤30-PASS



1-N48-PC3-30-30-M-4-DFT-64QAM-Outer_Full-75 @0-Ant5-26.745-28.140-≤30-PASS

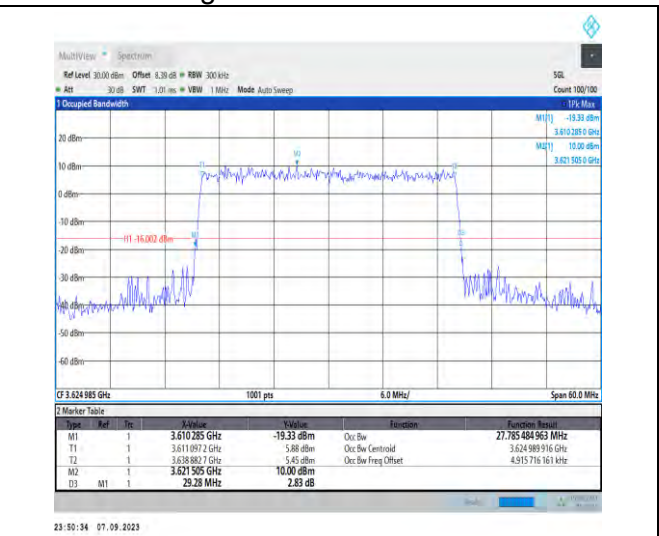
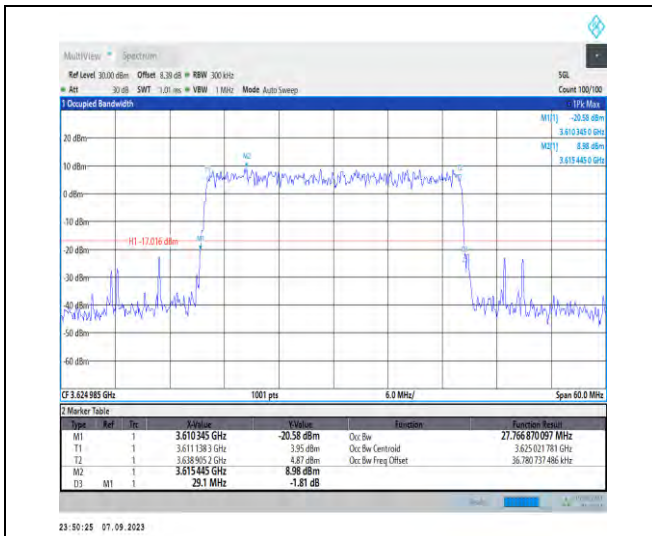
1-N48-PC3-30-30-M-5-DFT-256QAM-Outer_Full-75 @0-Ant5-26.707-27.840-≤30-PASS



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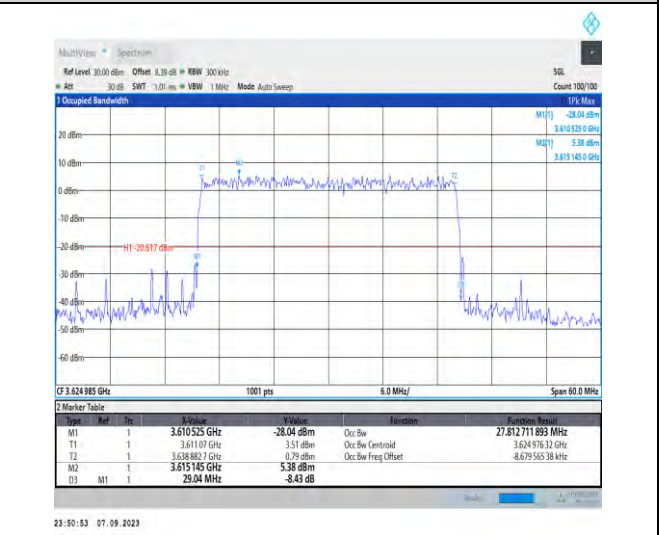
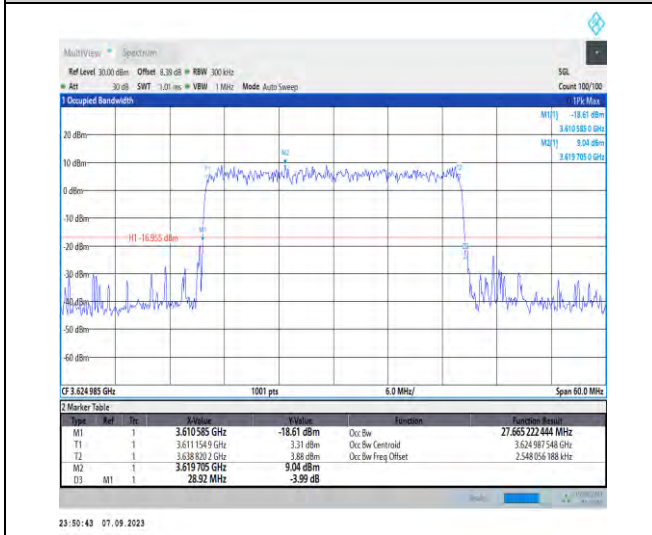
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1-N48-PC3-30-30-M-6-CP-QPSK-Outer_Full-78@0-Ant5-27.767-29.100-≤30-PASS

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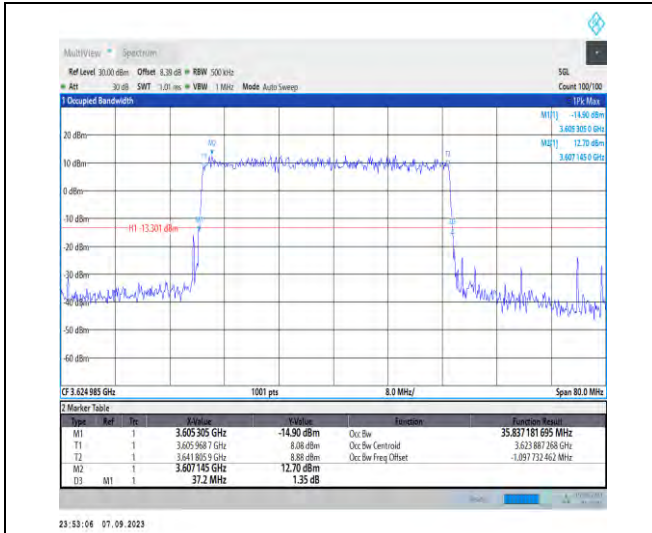
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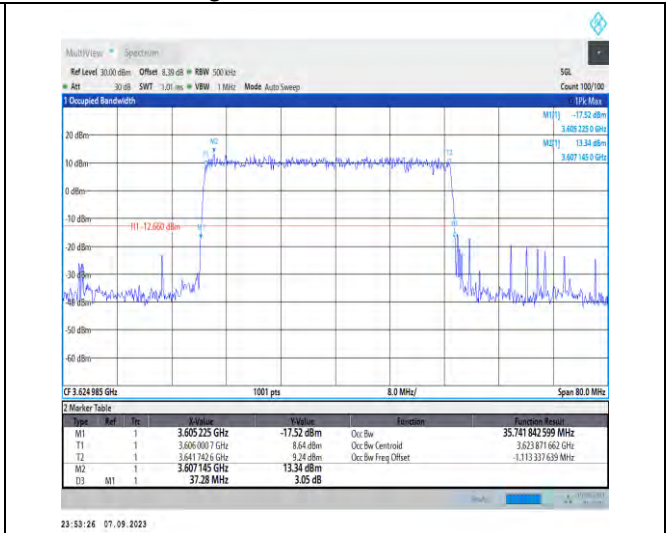


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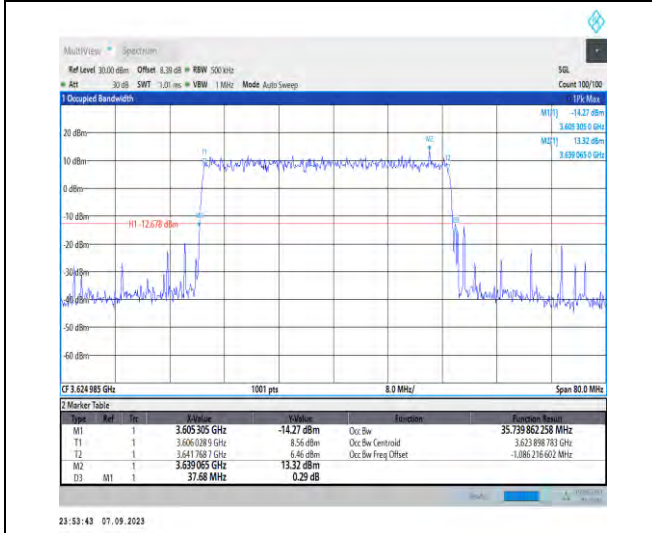
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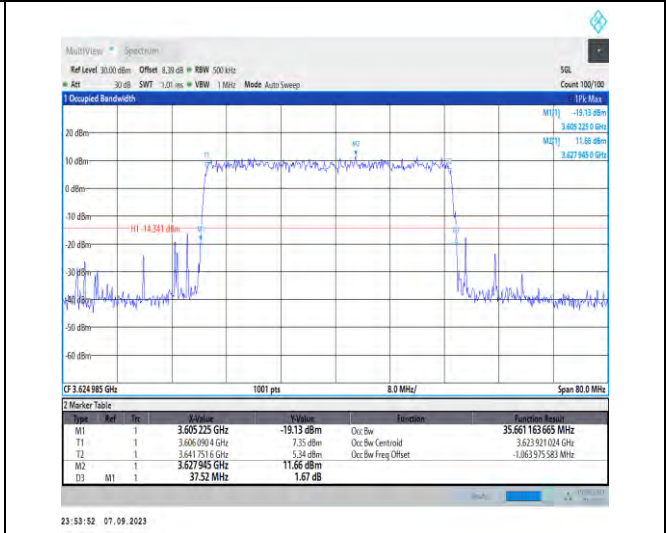
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1-N48-PC3-30-40-M-3-DFT-16QAM-Outer_Full-100@0-Ant5-35.74-37.680-≤40-PASS



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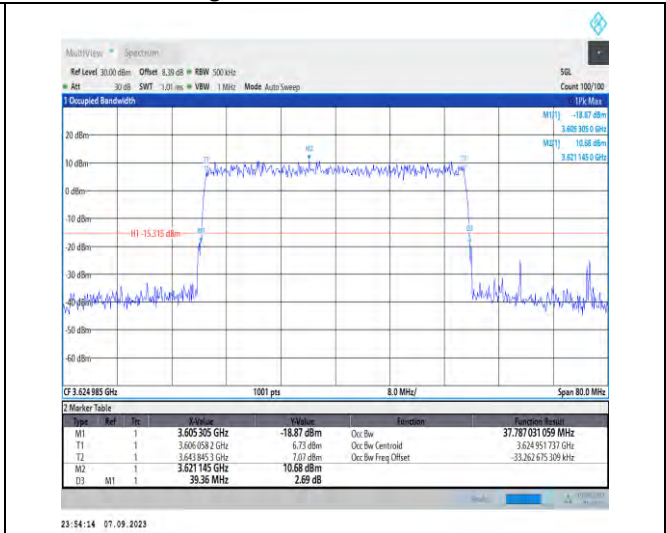
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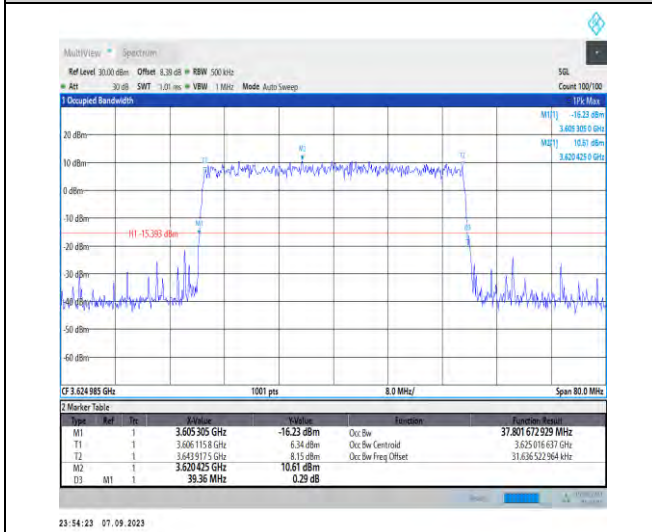
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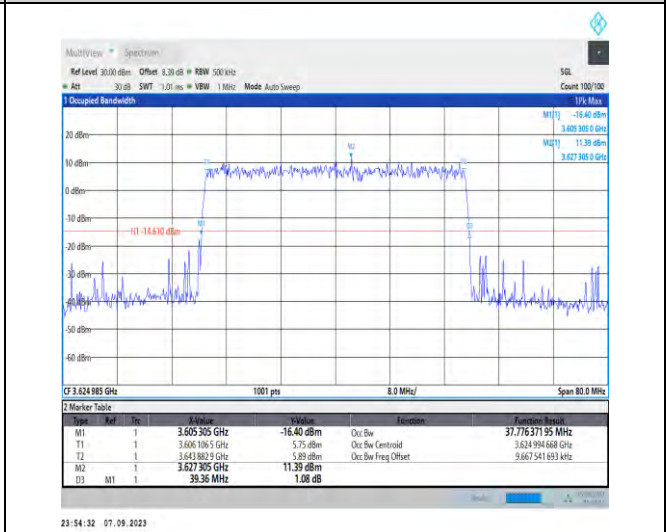
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1-N48-PC3-30-40-M-7-CP-16QAM-Outer_Full-106@0-Ant5-37.802-39.360-≤40-PASS



1-N48-PC3-30-40-M-8-CP-64QAM-Outer_Full-106@0-Ant5-37.776-39.360-≤40-PASS



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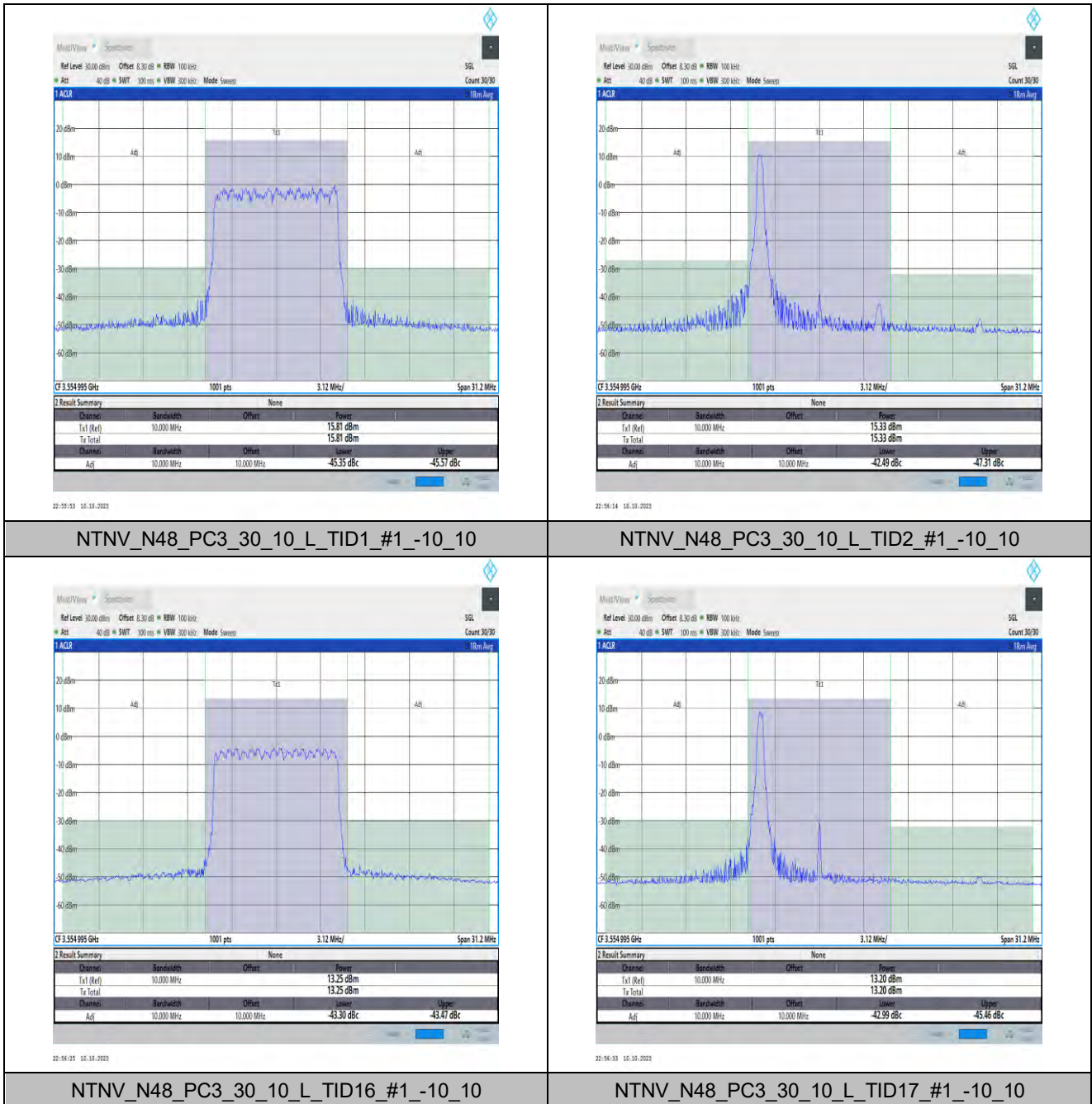
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Test Graphs



NTNV_N48_PC3_30_10_L_TID1_#1_-10_10

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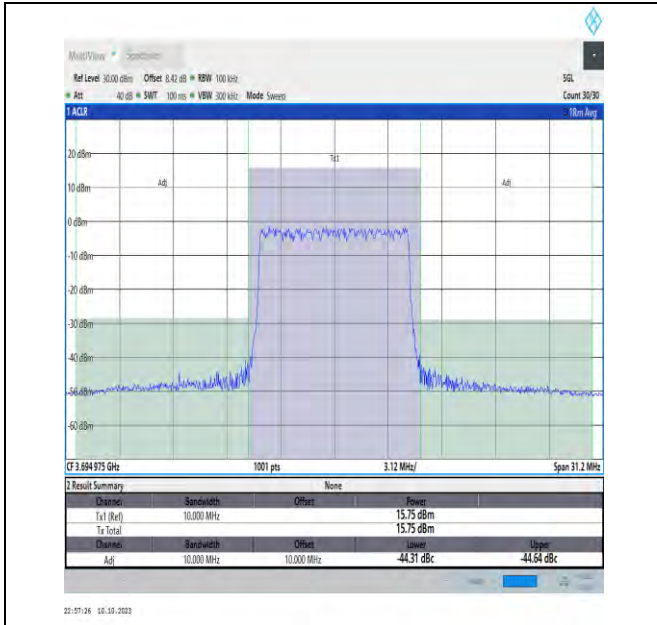
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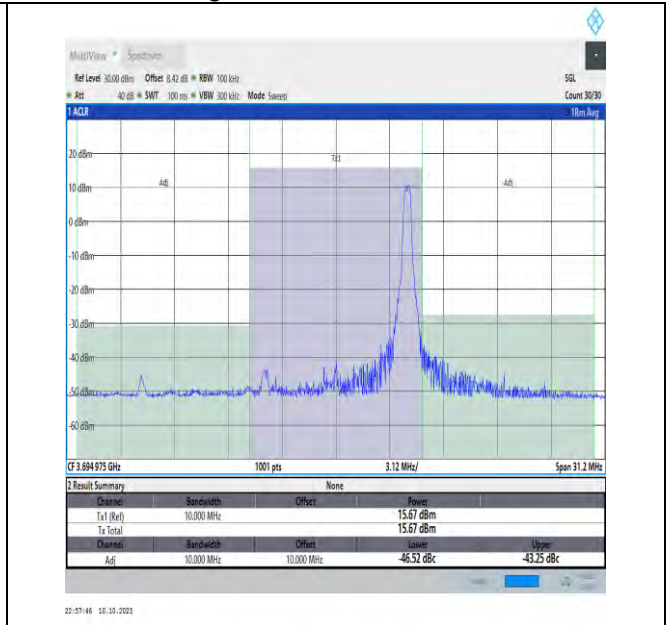
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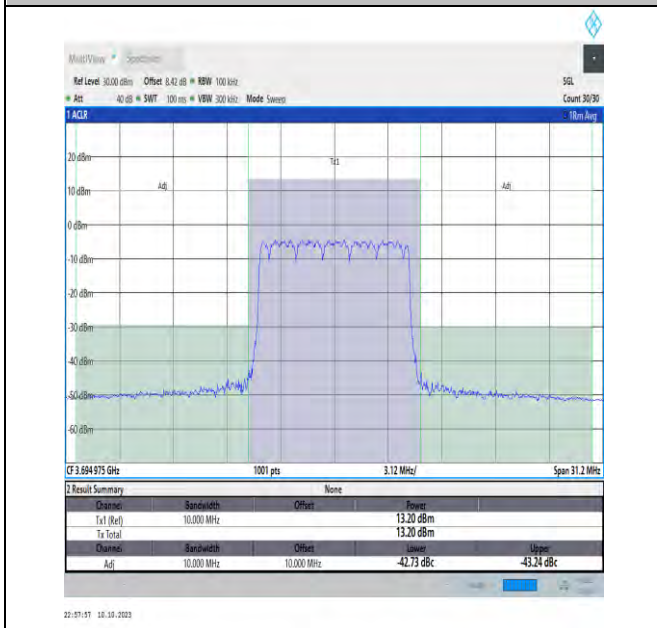
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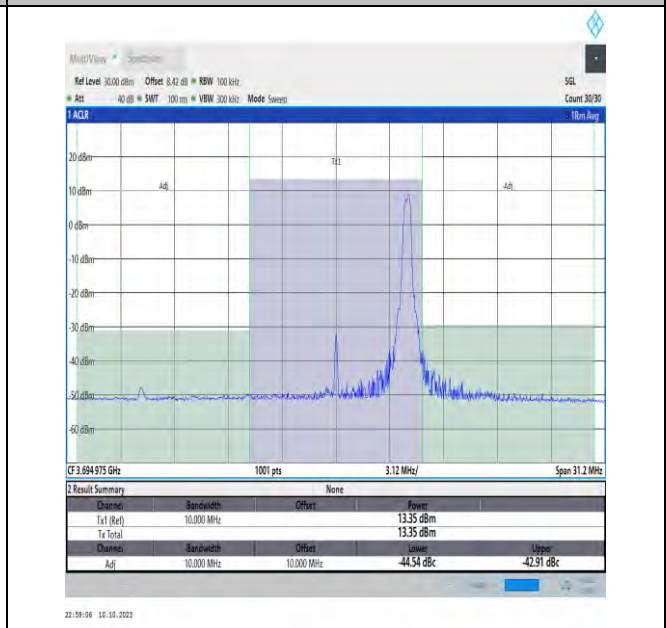
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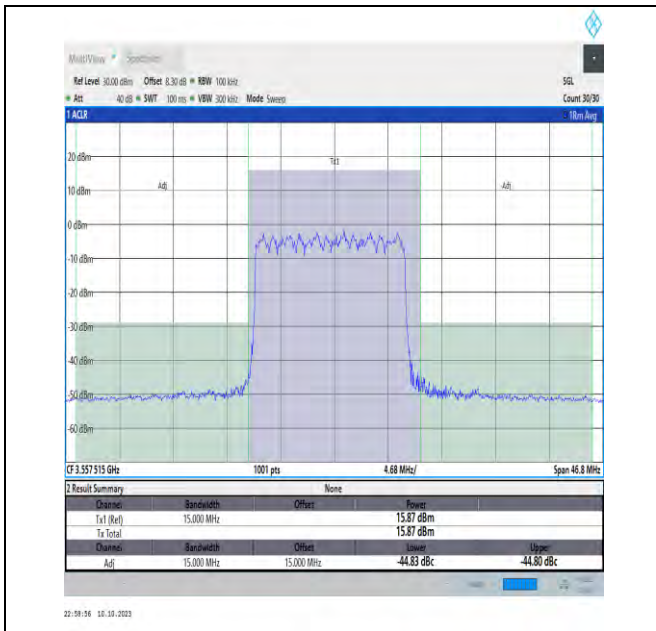
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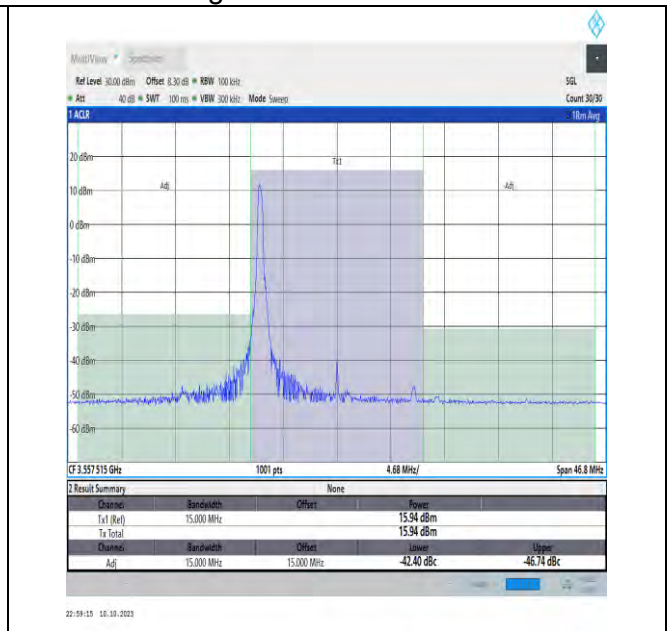
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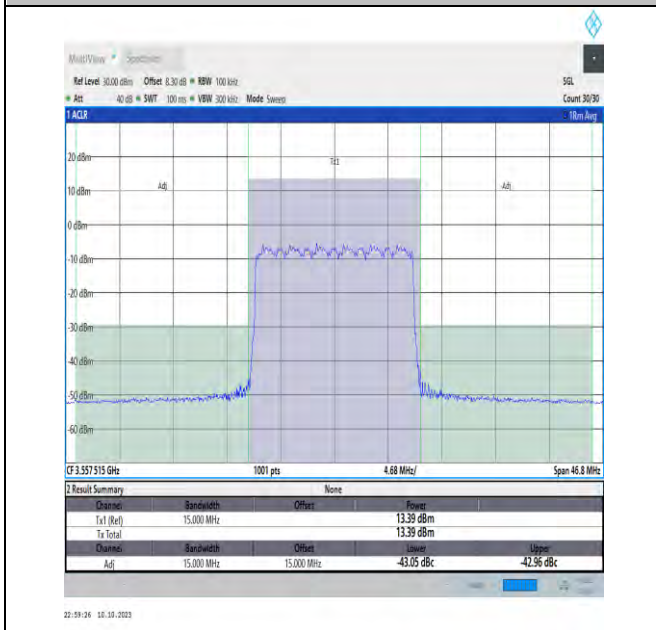
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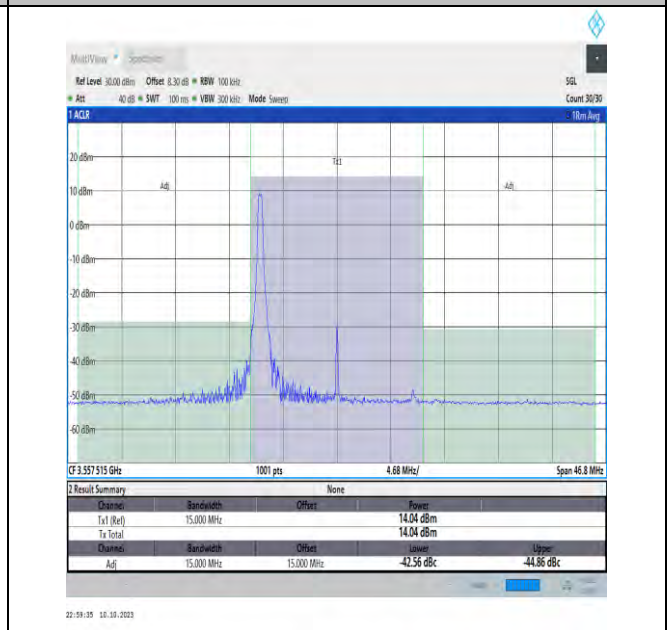
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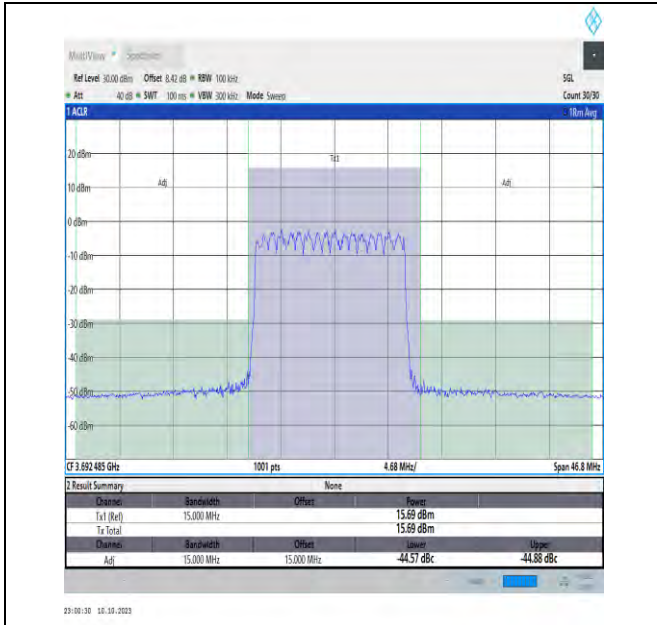
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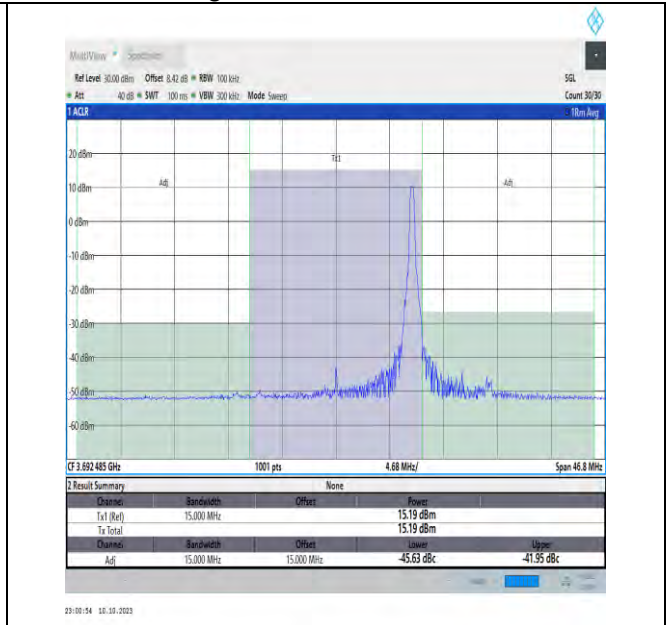
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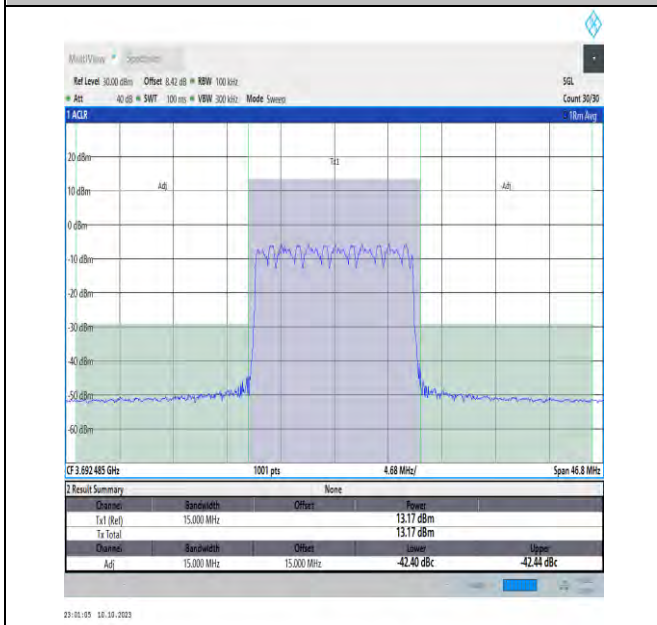
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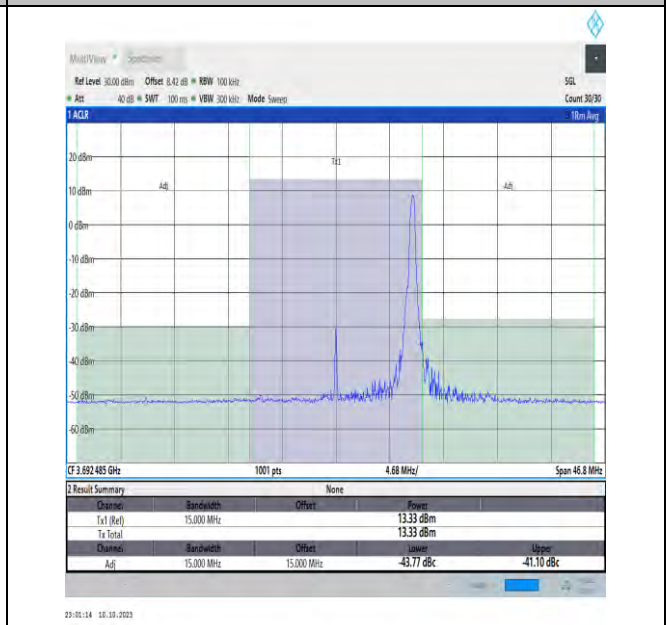
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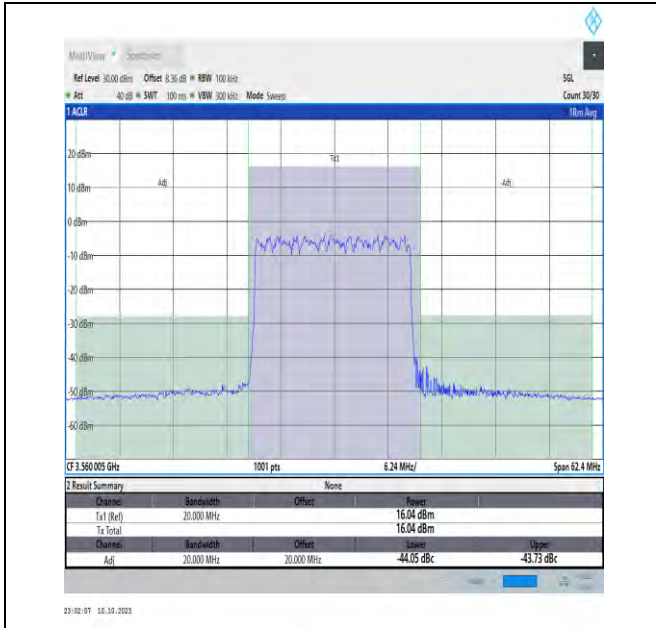
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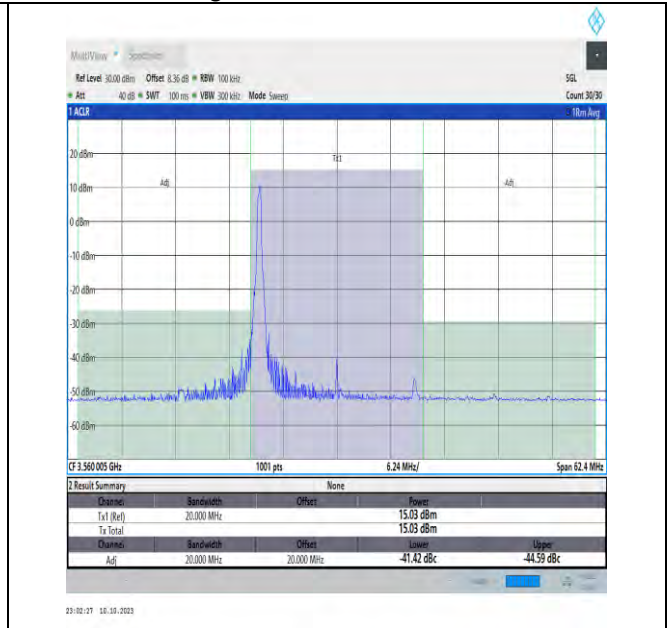
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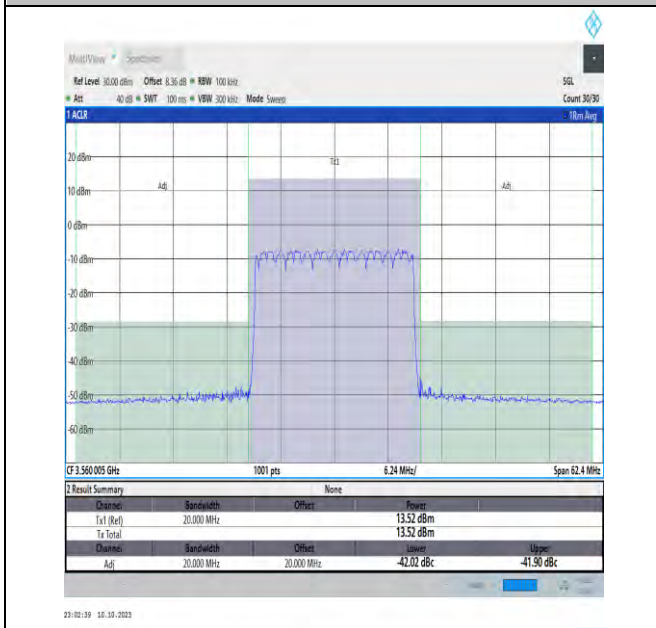
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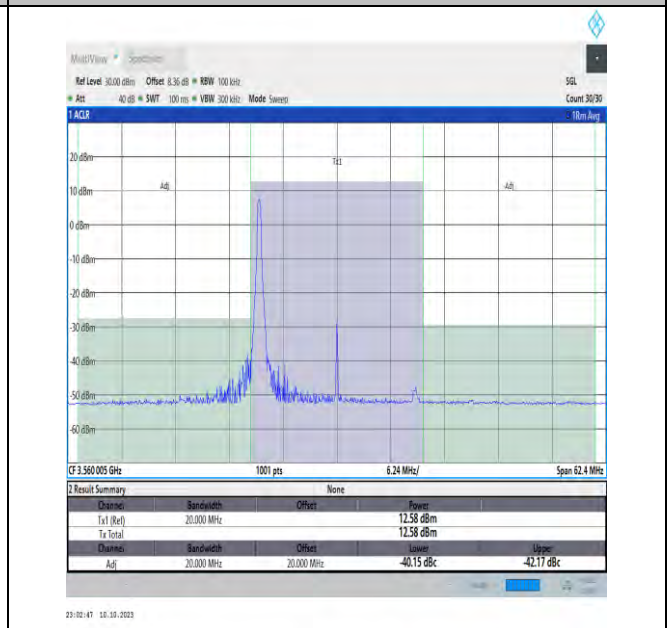
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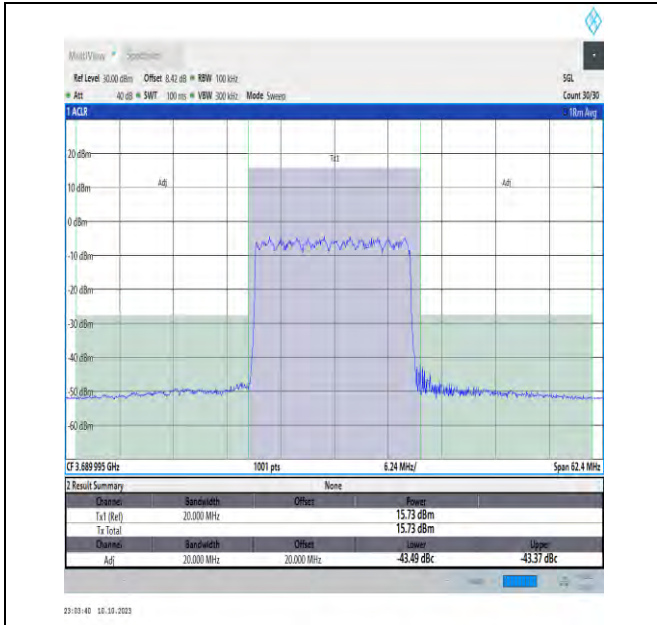
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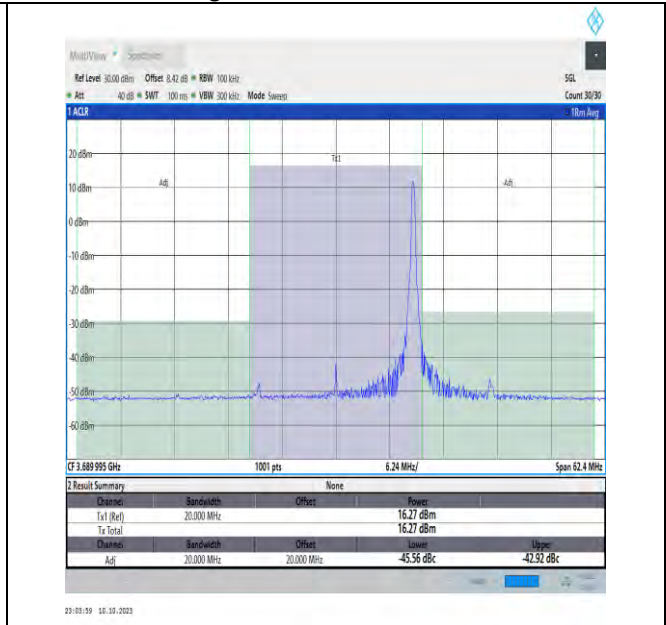
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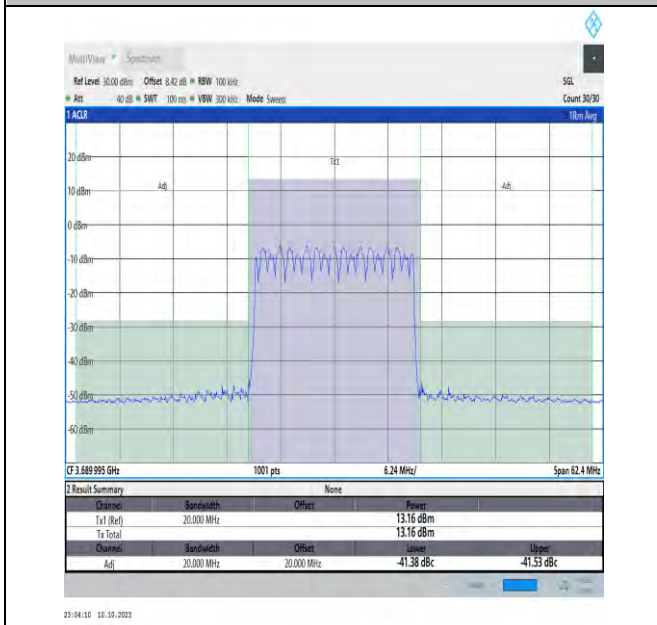
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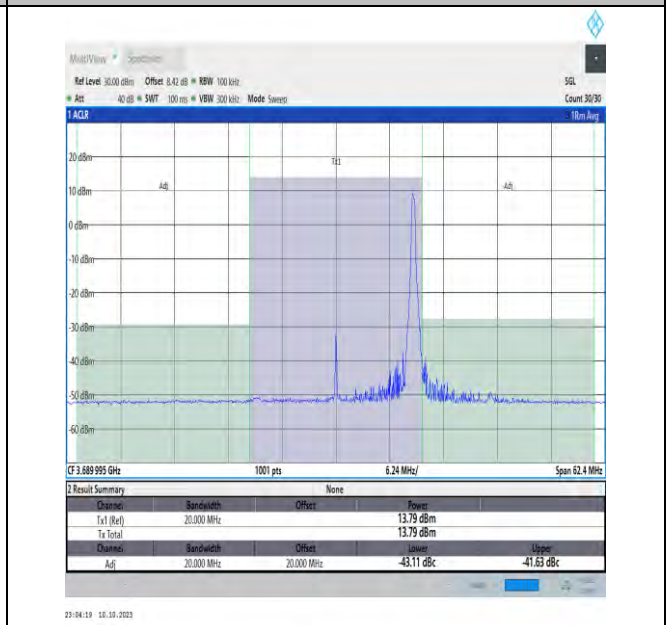
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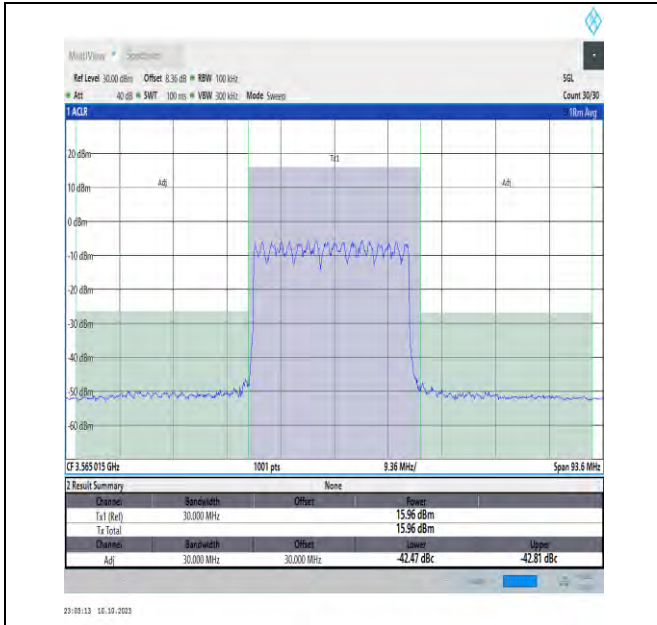
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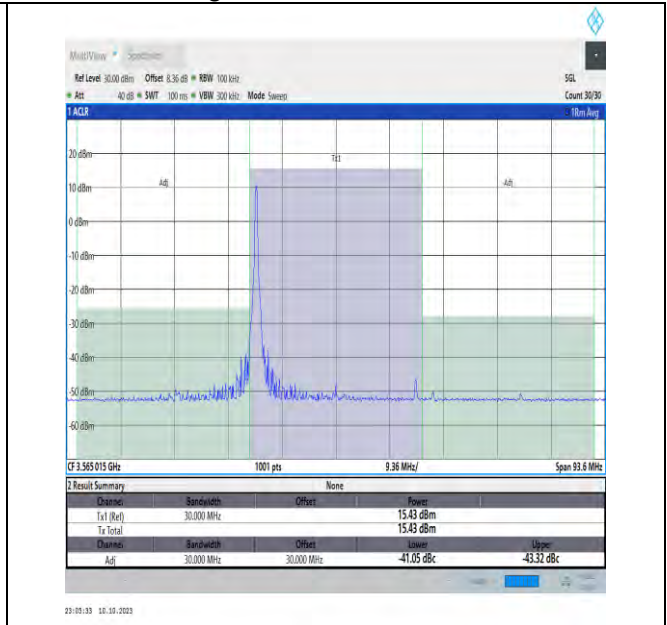
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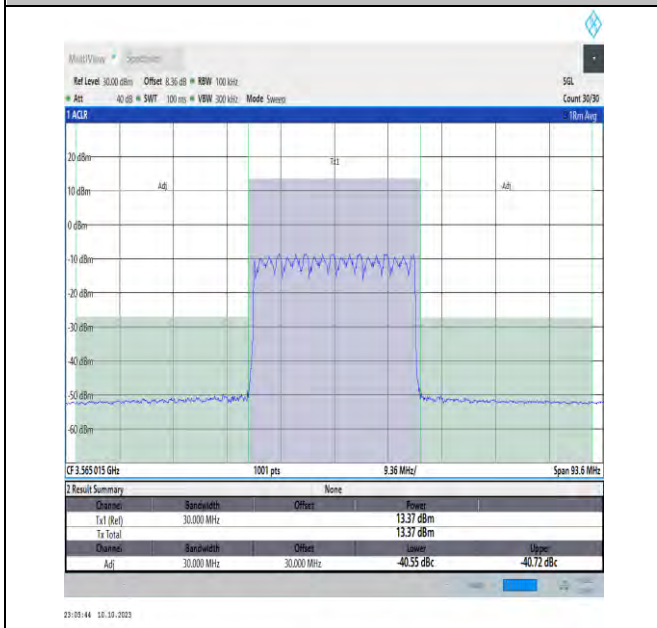
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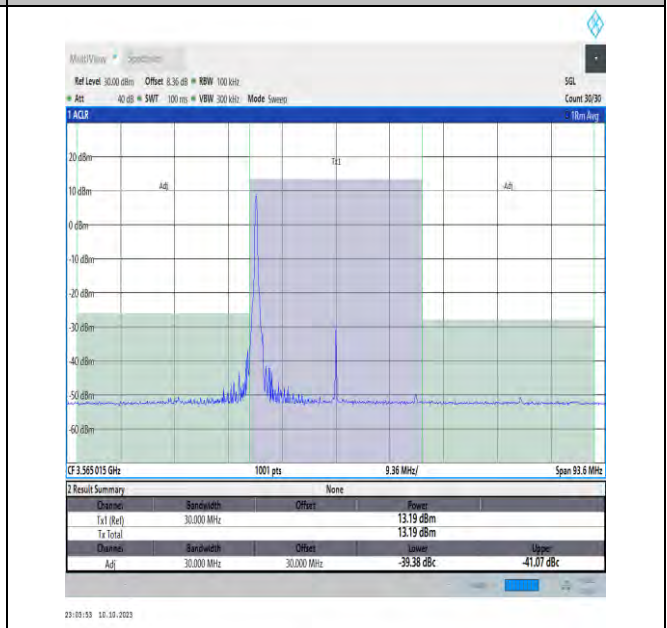
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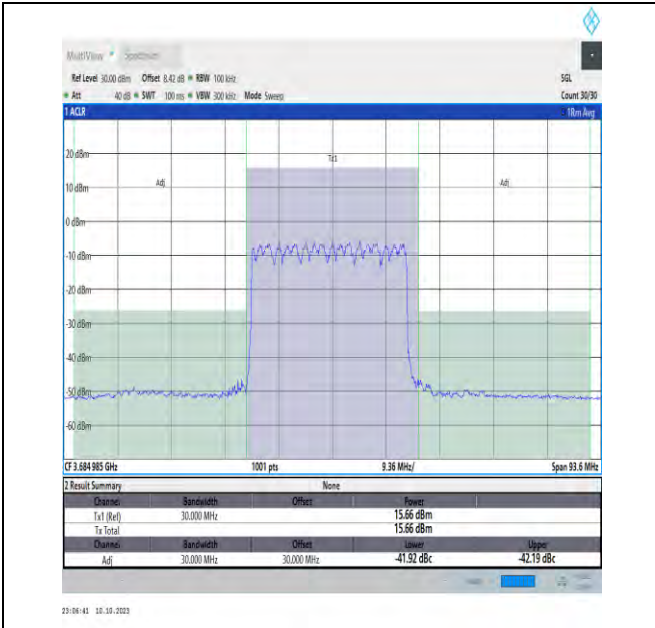
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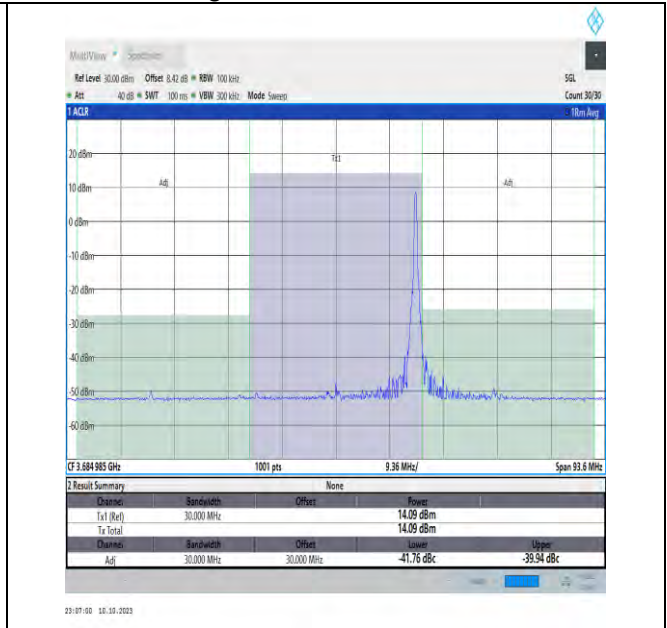
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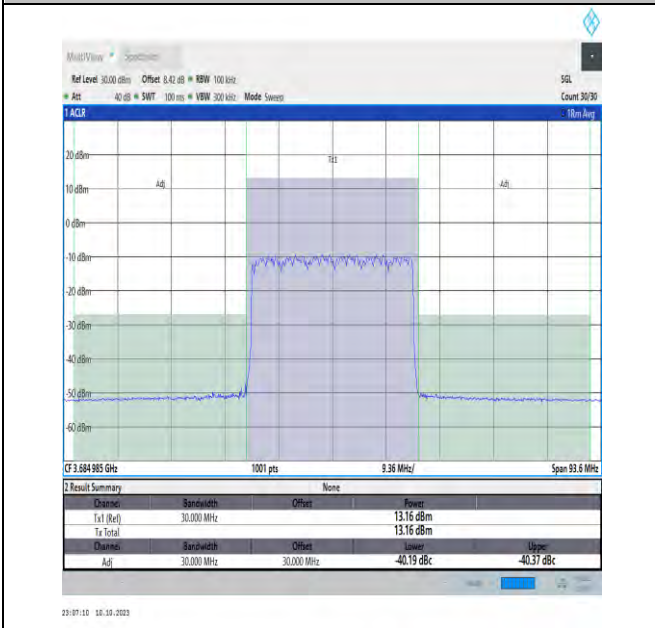
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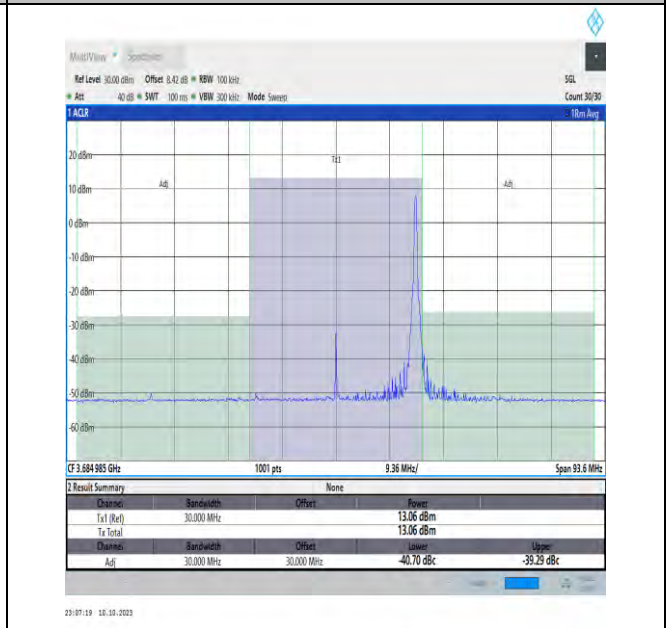
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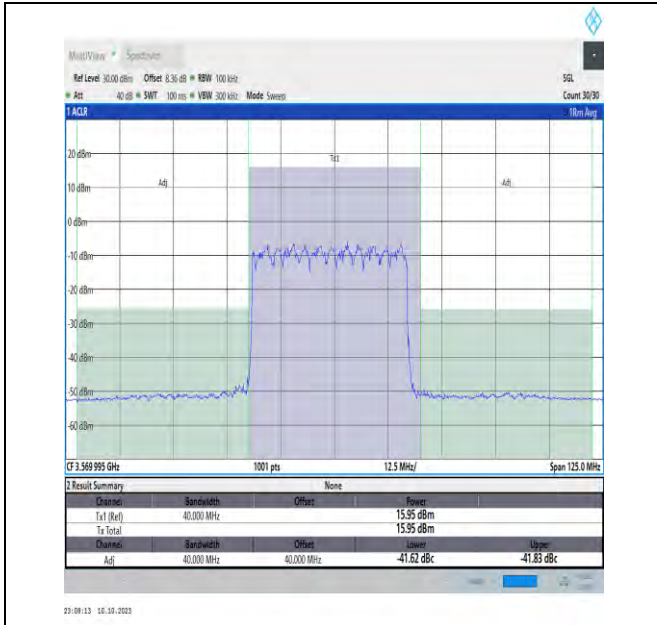
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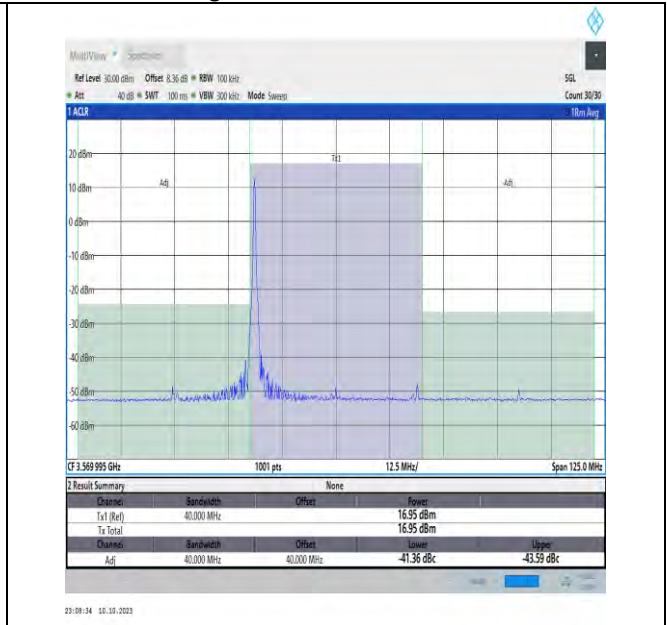
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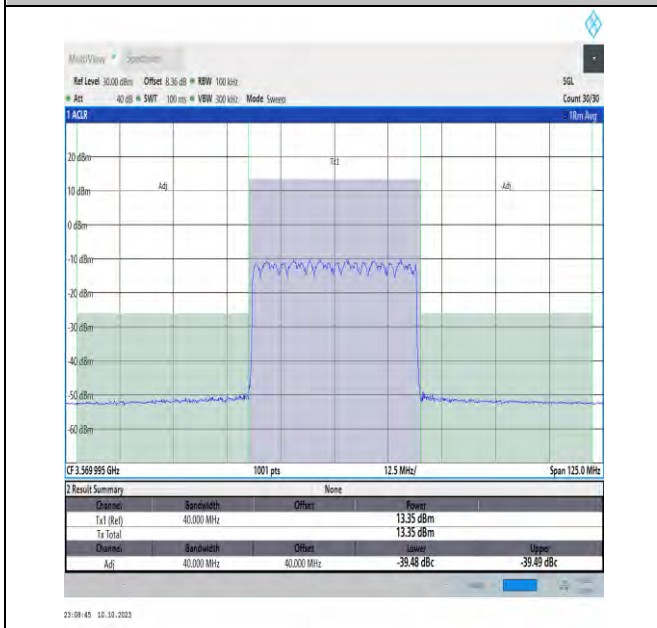
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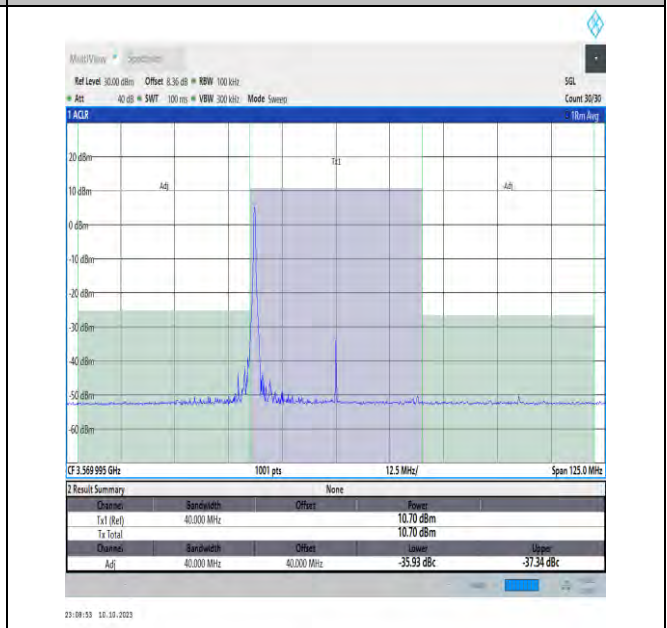
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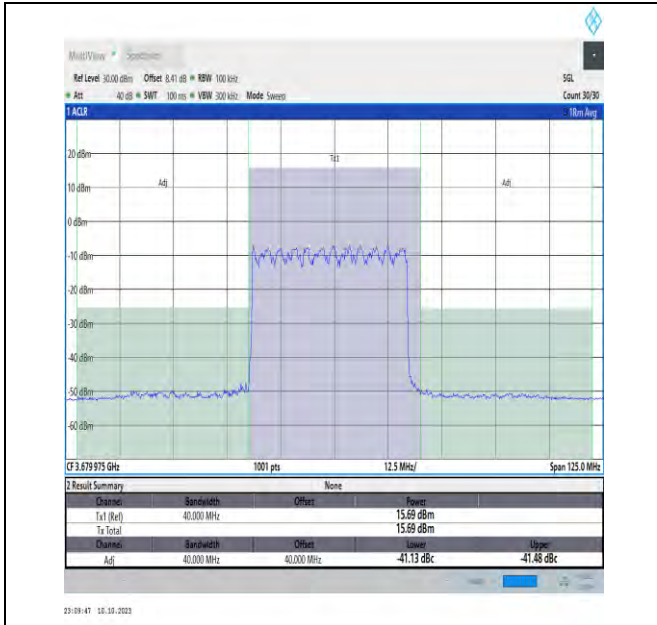
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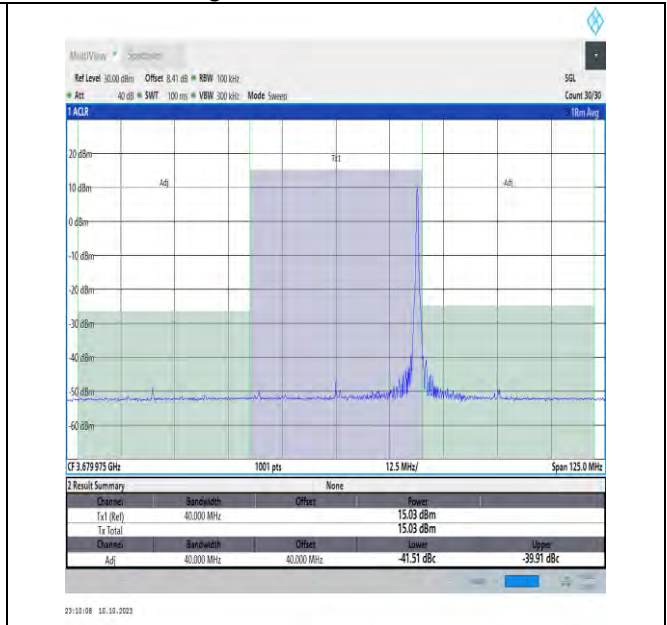
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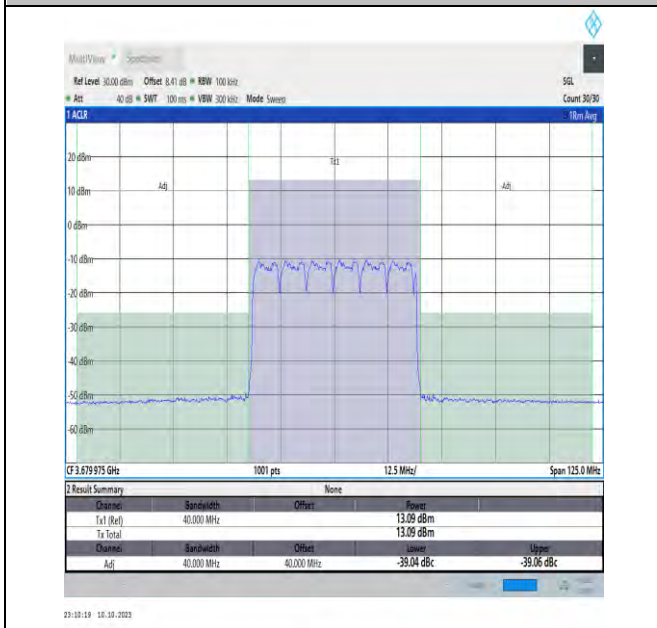
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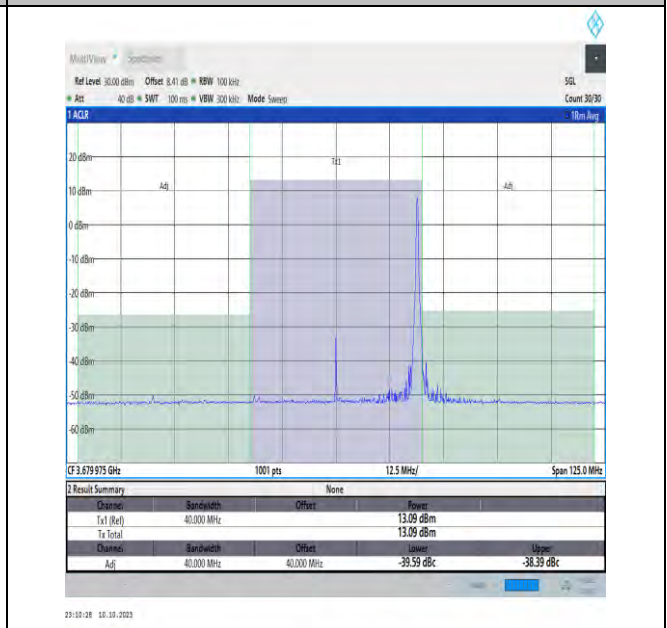
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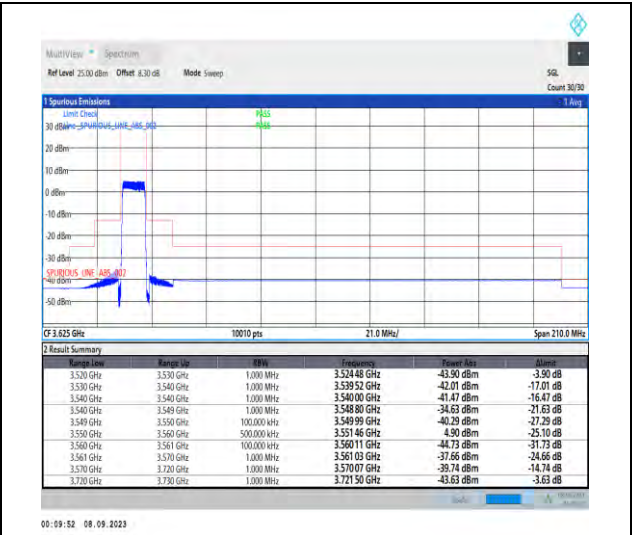
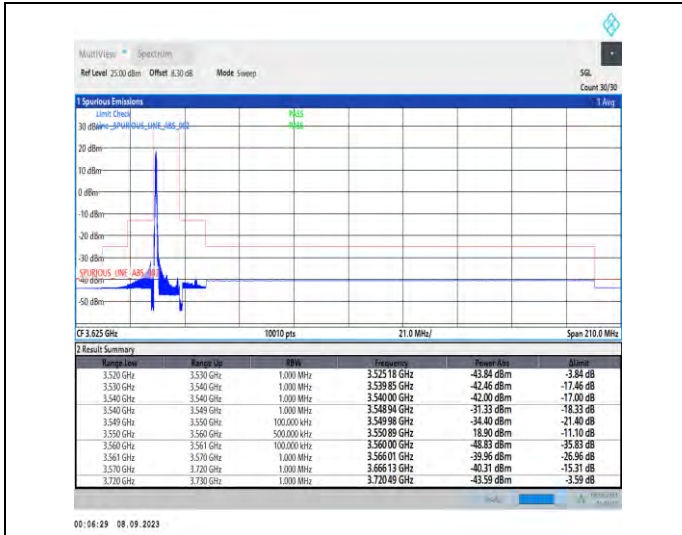
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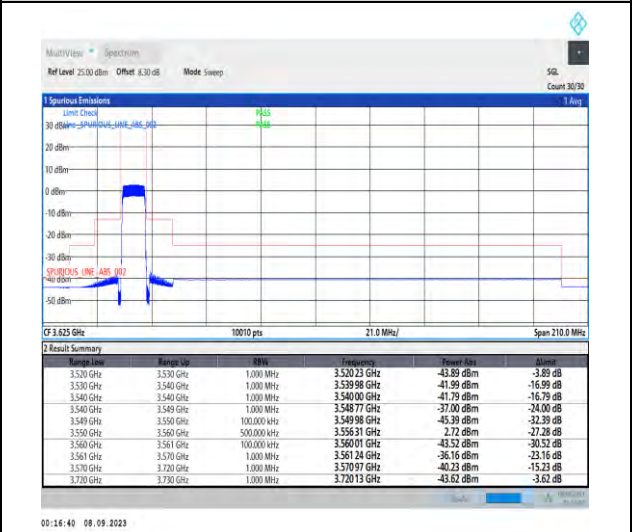
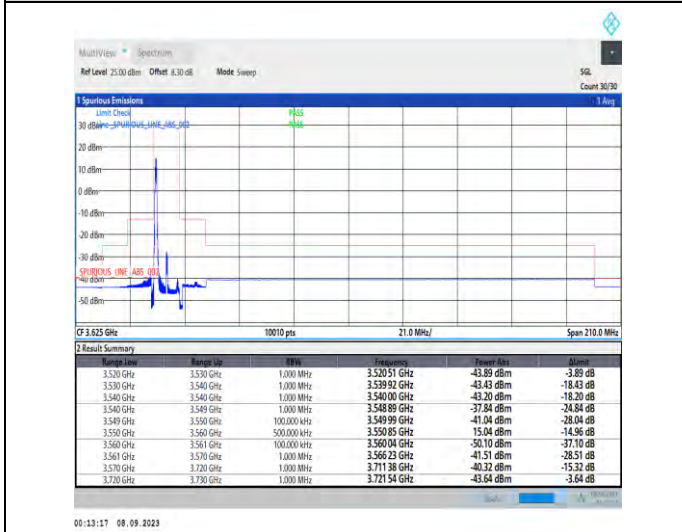
Band Edge for SA

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



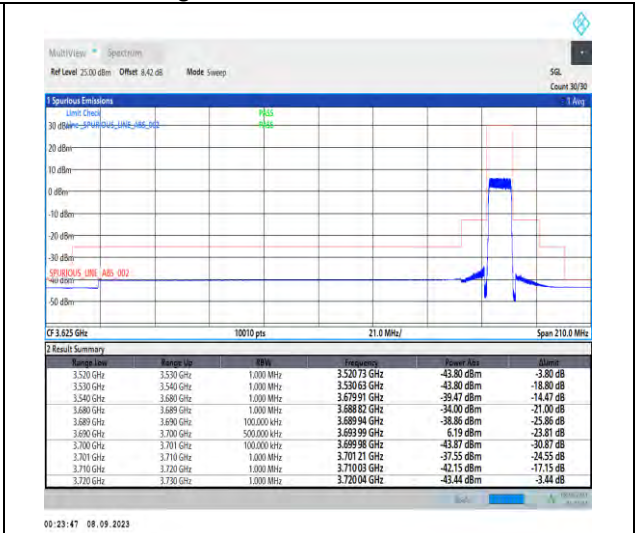
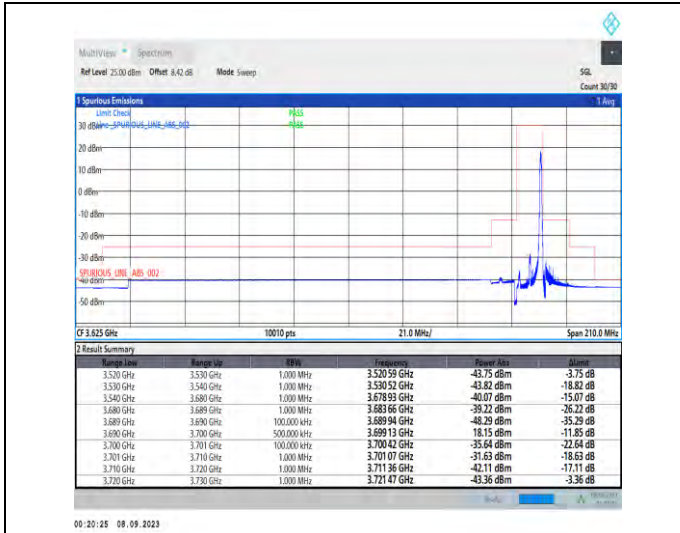
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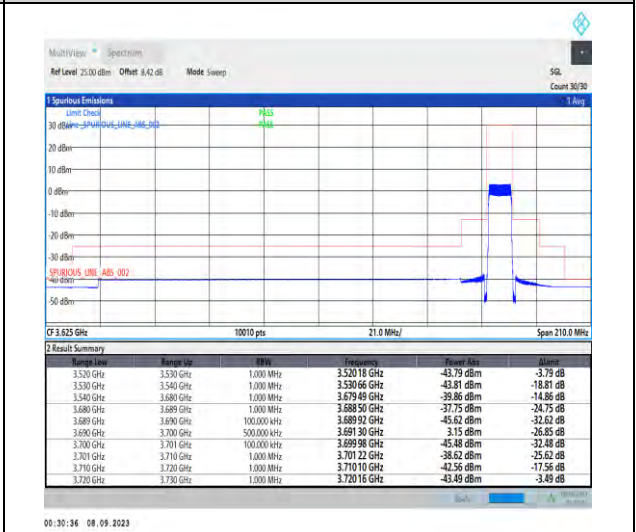
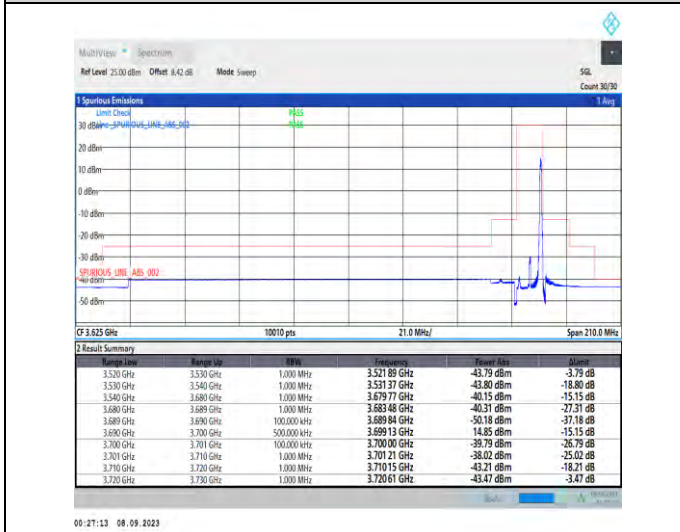
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1-N48-PC3-30-10-H-2-DFT-PI2BPSK-Edge_1RB_Right-t-1@23-Ant5-1--PASS-see graph

1-N48-PC3-30-10-H-3-DFT-PI2BPSK-Outer_Full-24@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

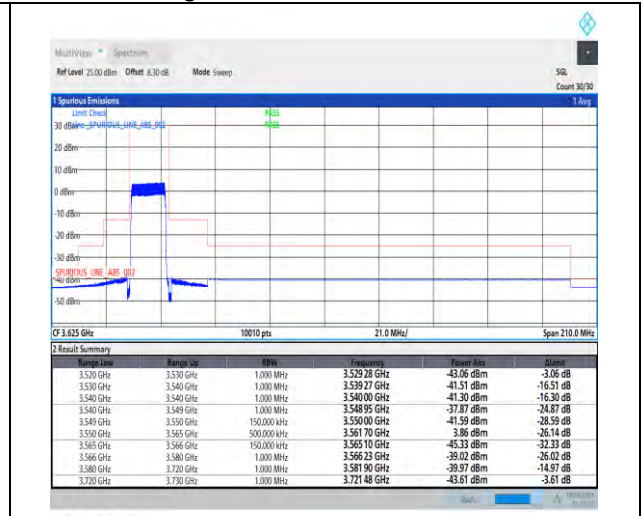
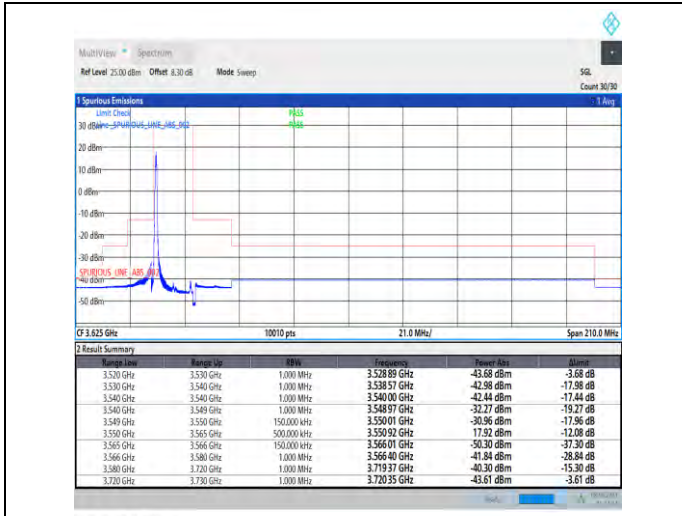
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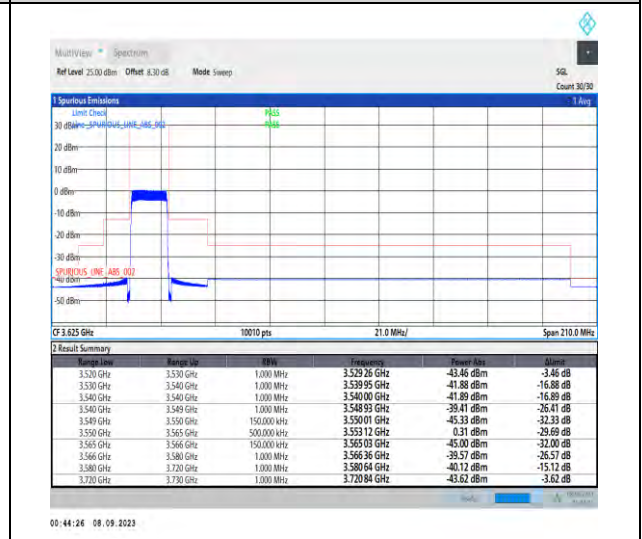
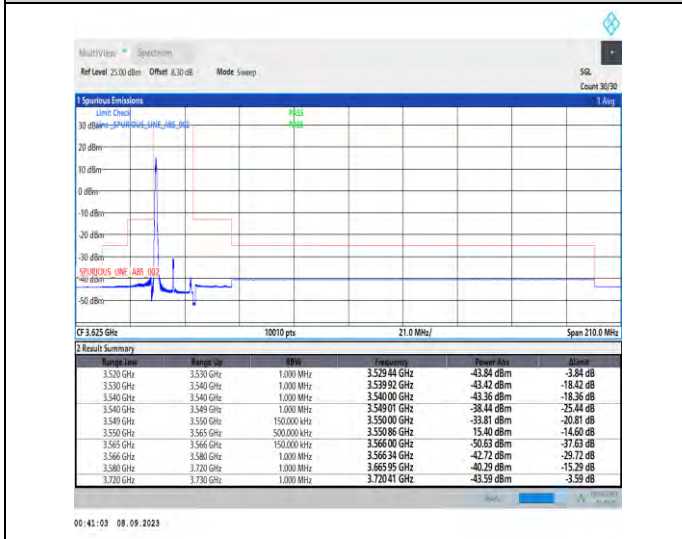
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1-N48-PC3-30-15-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph

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

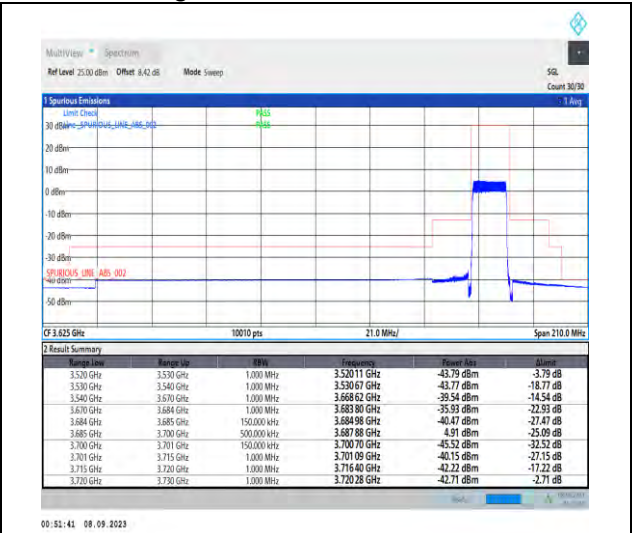
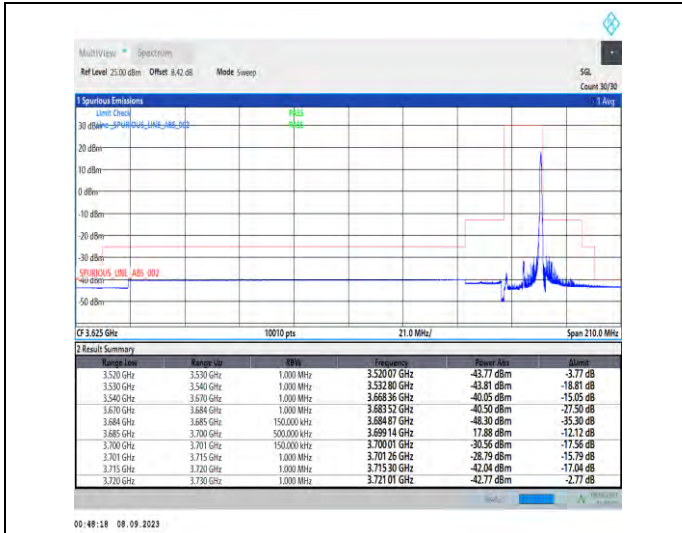
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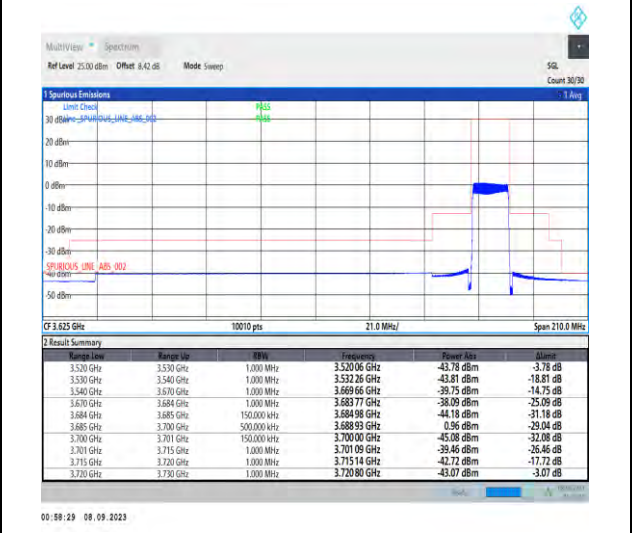
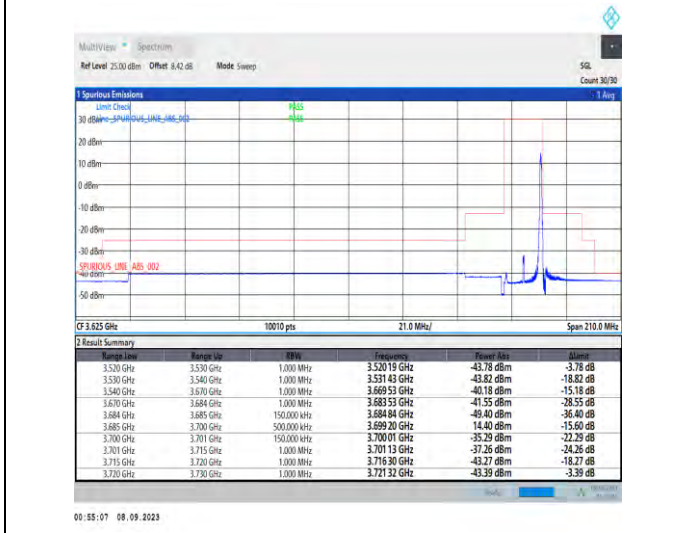
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1-N48-PC3-30-15-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@37-Ant5-1--PASS-see graph

1-N48-PC3-30-15-H-3-DFT-PI2BPSK-Outer_Full-36@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

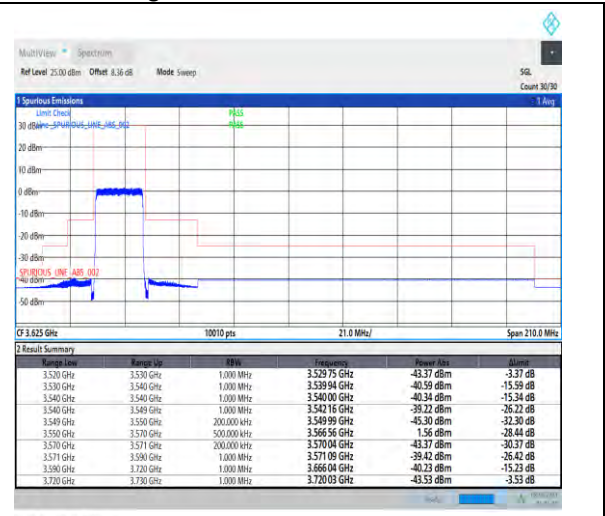
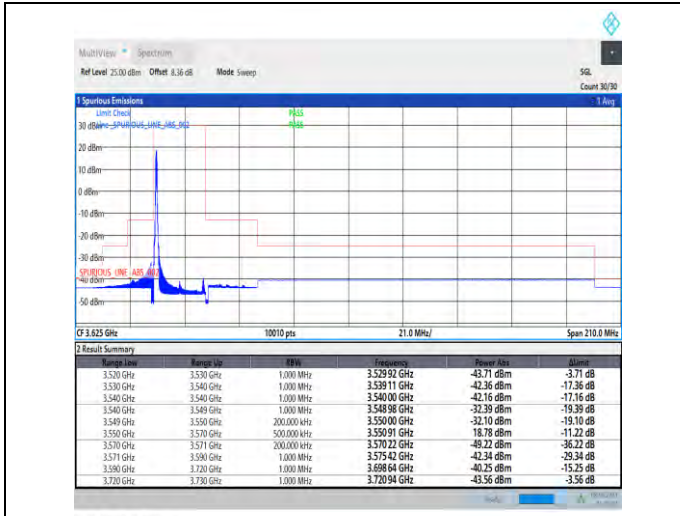
1-N48-PC3-30-15-H-6-CP-QPSK-Outer_Full-38@0-Ant5-1--PASS-see graph



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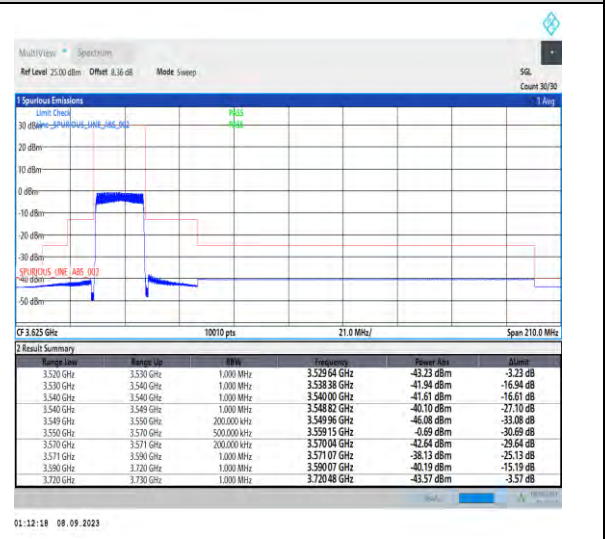
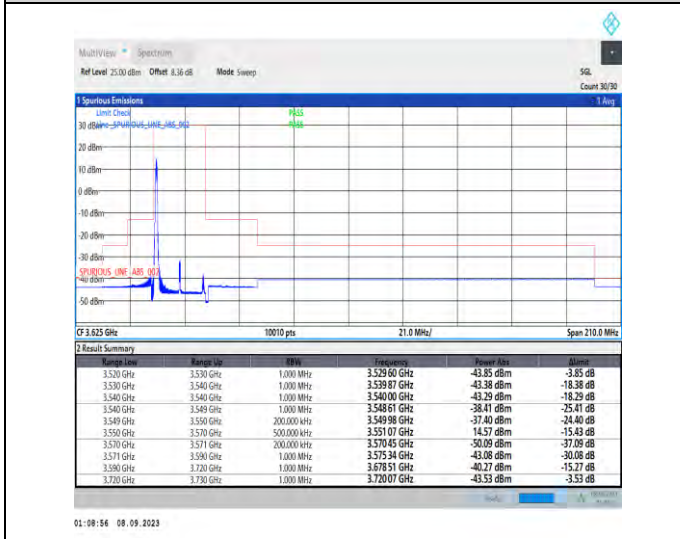
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1-N48-PC3-30-20-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph

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

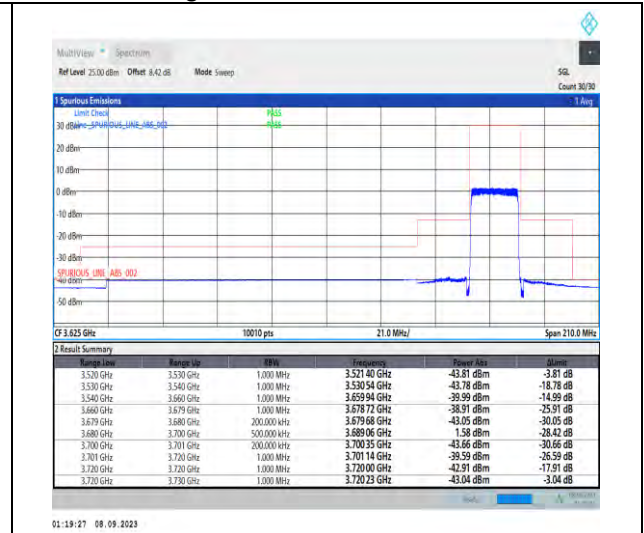
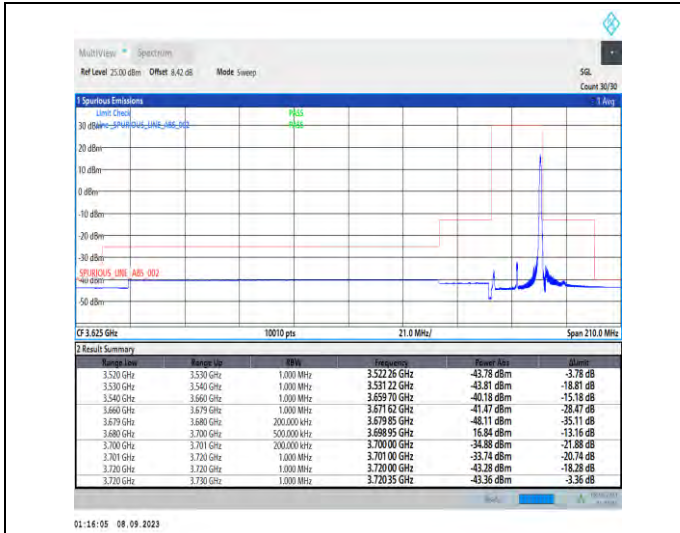
1-N48-PC3-30-20-L-6-CP-QPSK-Outer_Full-51@0-Ant5-1--PASS-see graph



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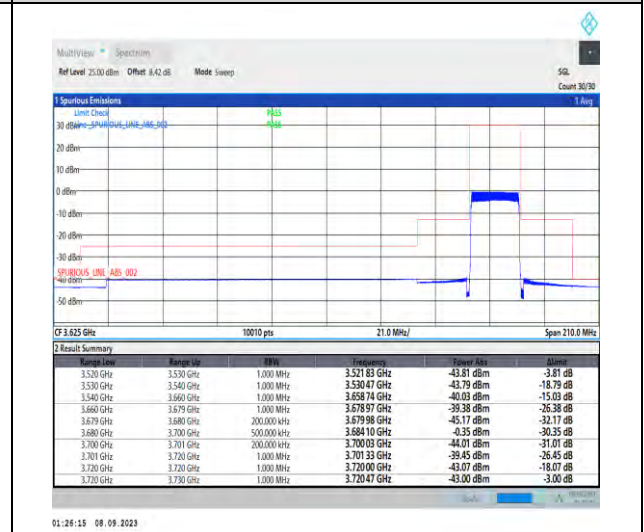
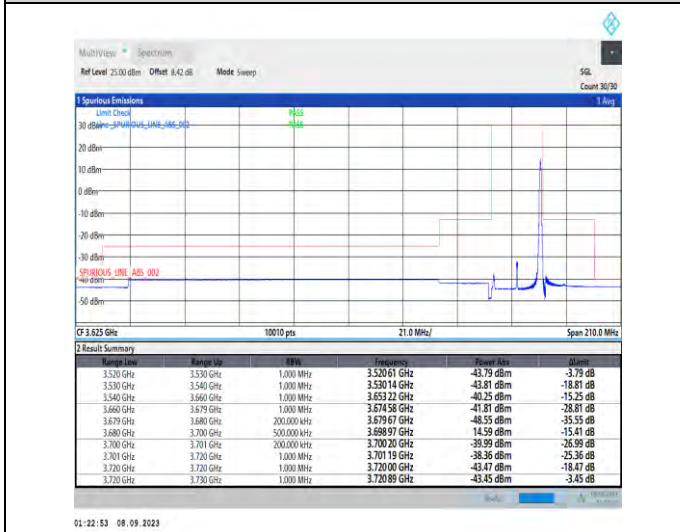
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1-N48-PC3-30-20-H-2-DFT-PI2BPSK-Edge_1RB_Right-t-1@50-Ant5-1--PASS-see graph

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

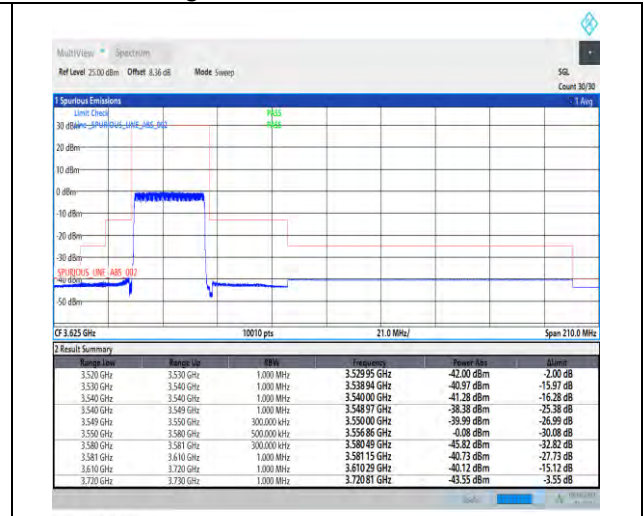
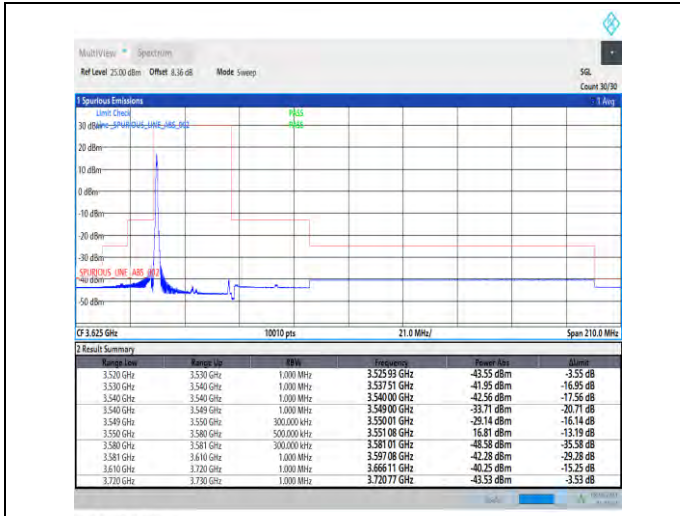
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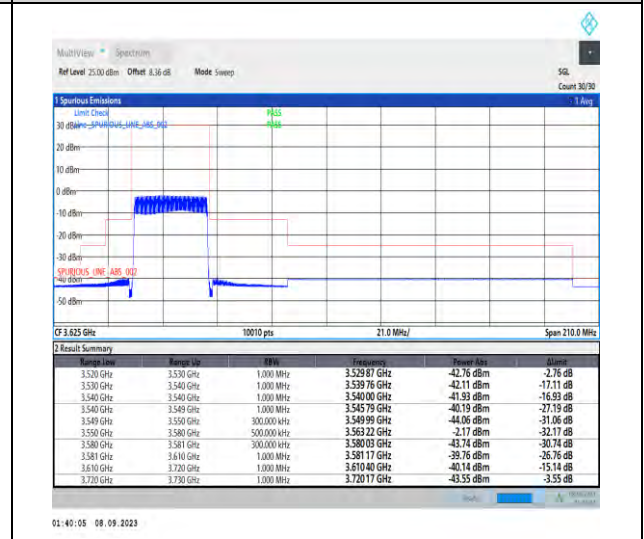
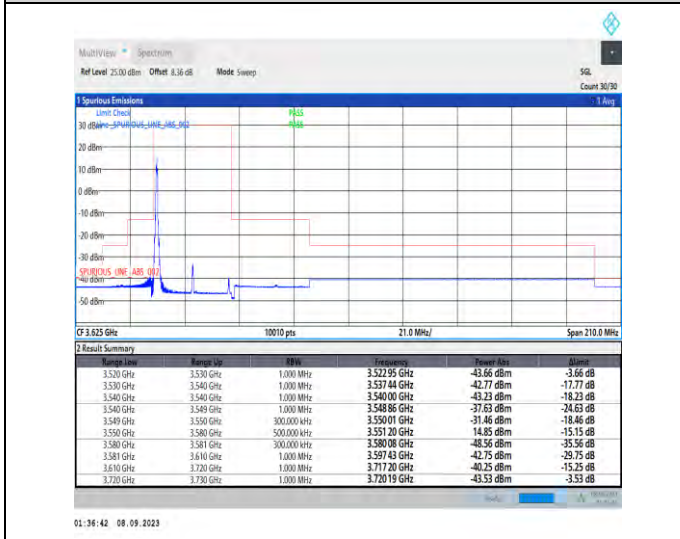
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1-N48-PC3-30-30-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph

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



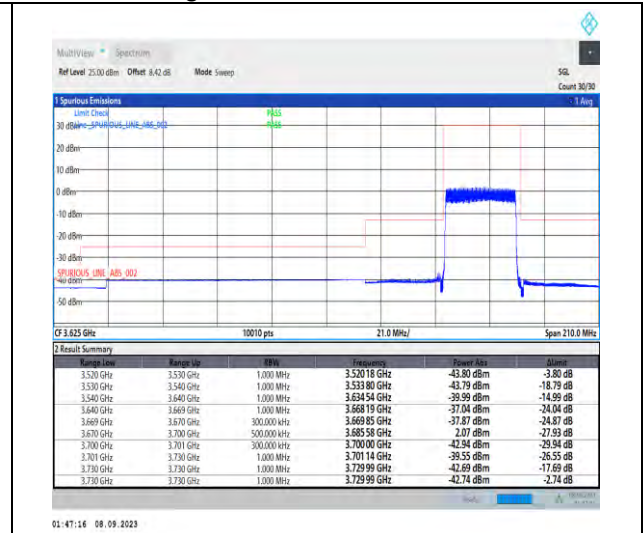
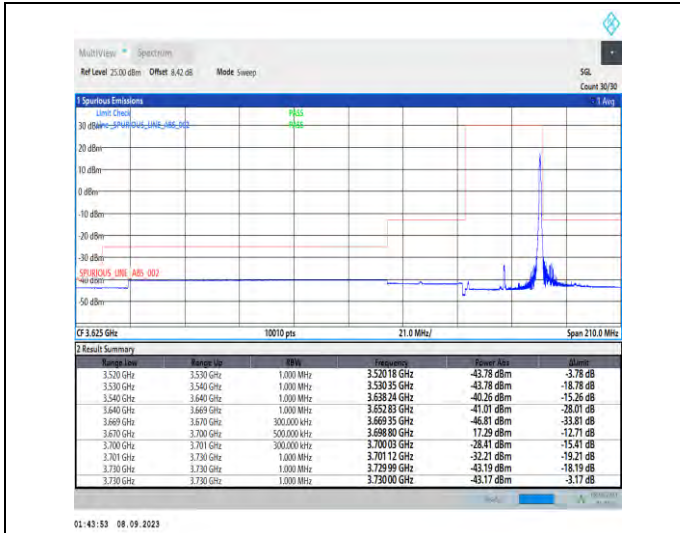
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1-N48-PC3-30-30-L-6-CP-QPSK-Outer_Full-78@0-Ant5-1--PASS-see graph



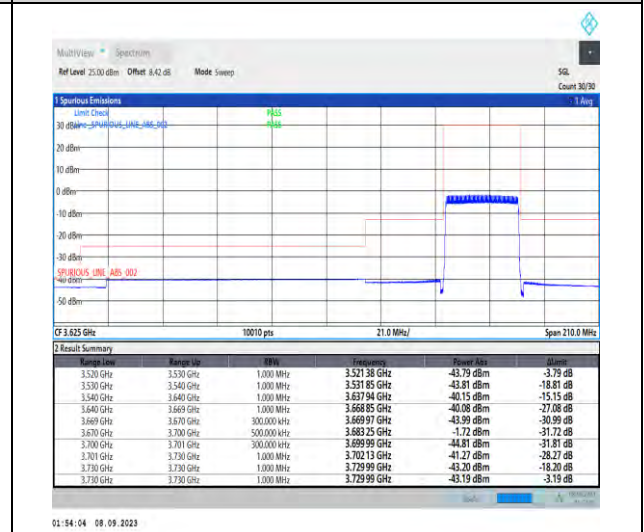
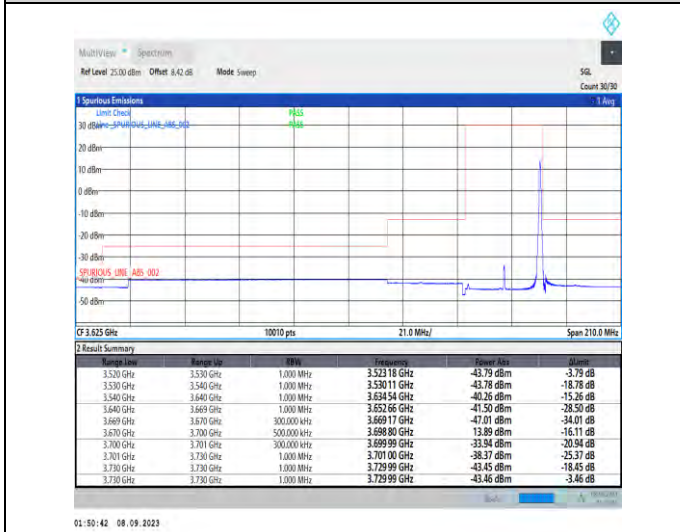
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1-N48-PC3-30-30-H-2-DFT-PI2BPSK-Edge_1RB_Right-t-1@77-Ant5-1--PASS-see graph

1-N48-PC3-30-30-H-3-DFT-PI2BPSK-Outer_Full-75@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

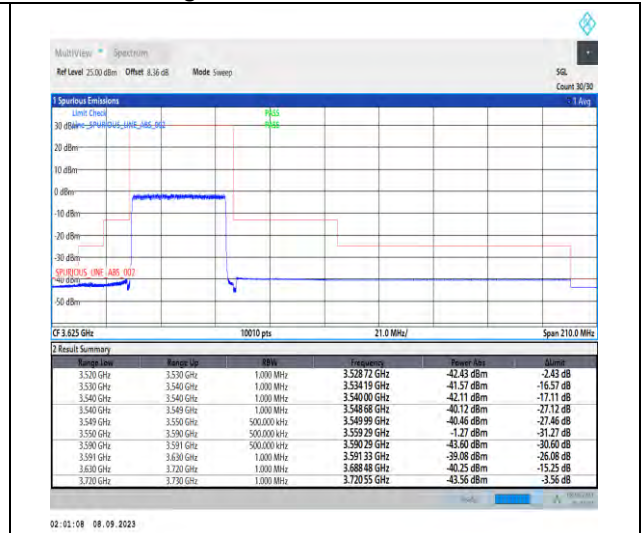
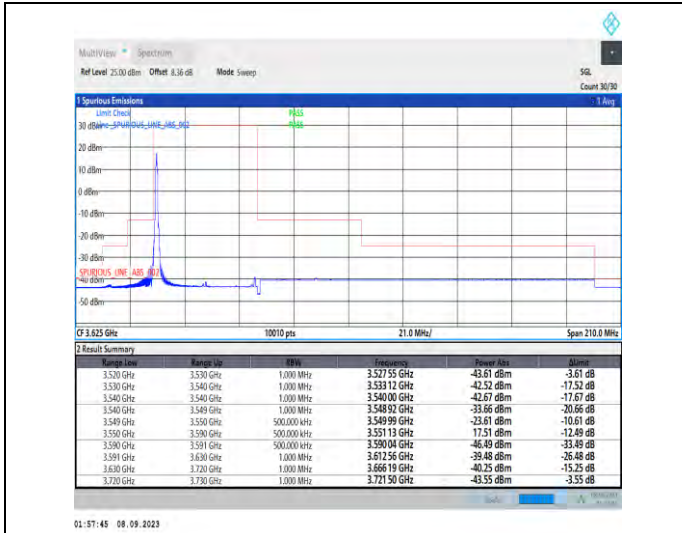
1-N48-PC3-30-30-H-6-CP-QPSK-Outer_Full-78@0-Ant5-1--PASS-see graph



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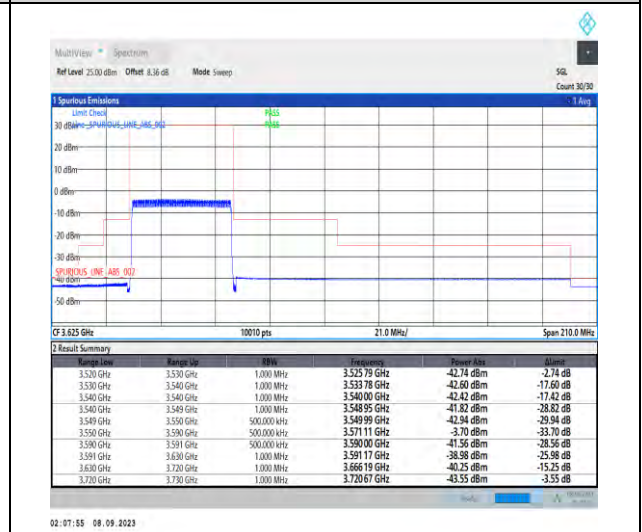
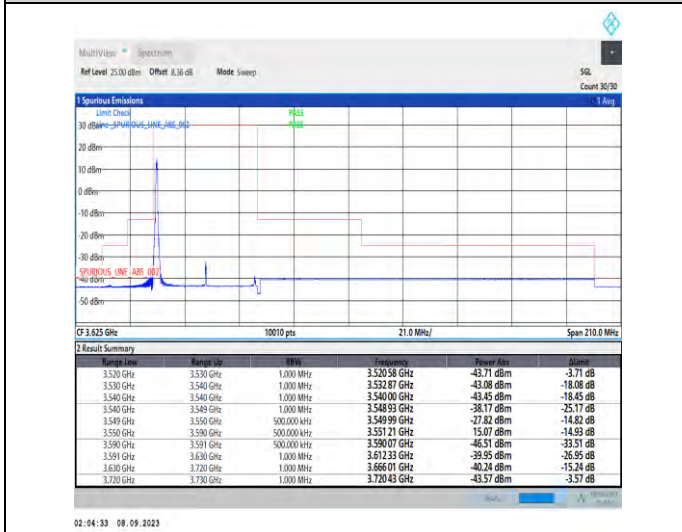
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1-N48-PC3-30-40-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph

1-N48-PC3-30-40-L-3-DFT-PI2BPSK-Outer_Full-100@0-Ant5-1--PASS-see graph



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

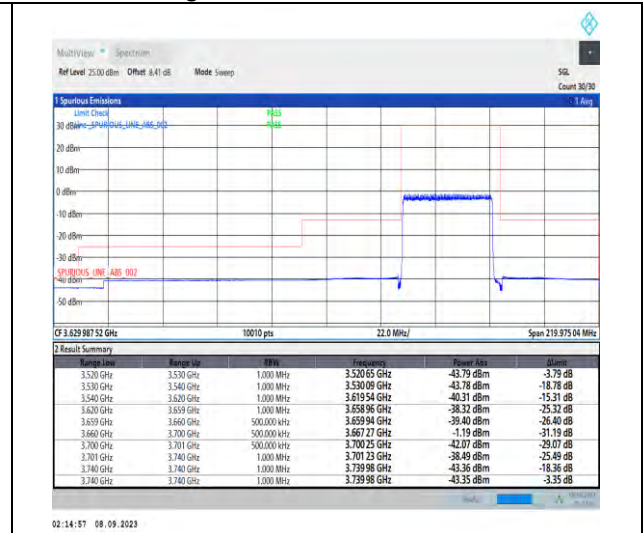
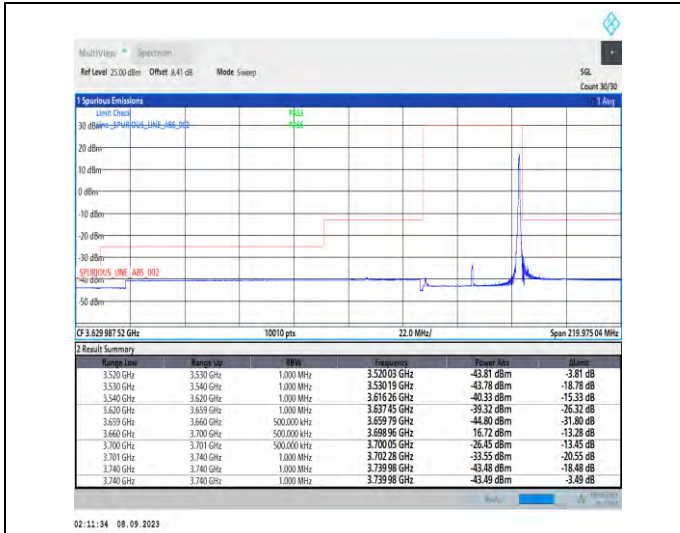
1-N48-PC3-30-40-L-6-CP-QPSK-Outer_Full-106@0-Ant5-1--PASS-see graph



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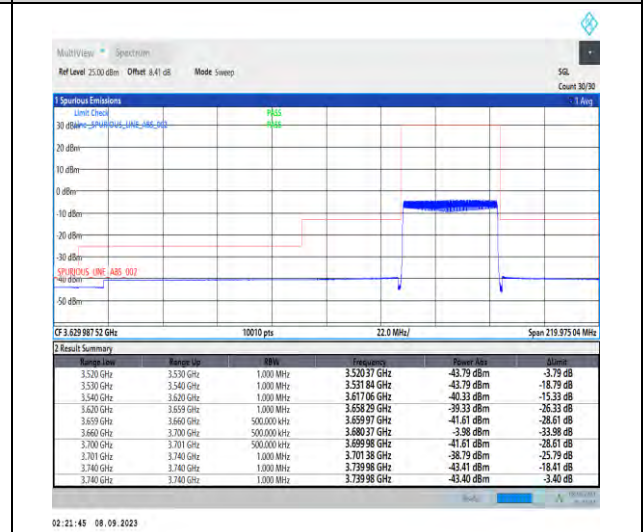
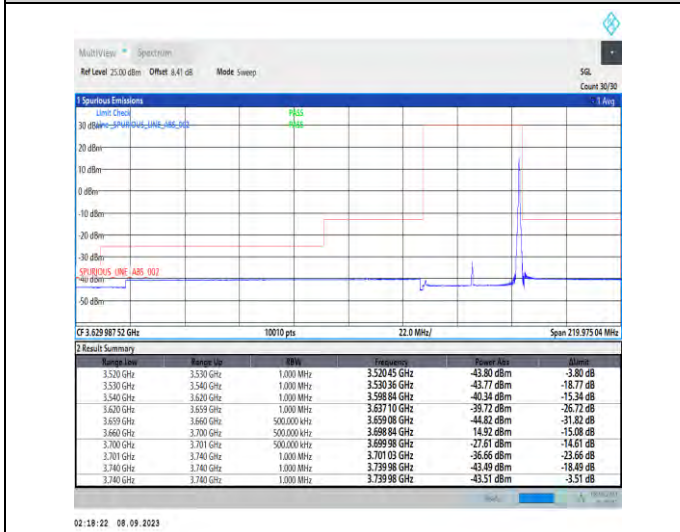
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1-N48-PC3-30-40-H-2-DFT-PI2BPSK-Edge_1RB_Righ t-1@105-Ant5-1--PASS-see graph

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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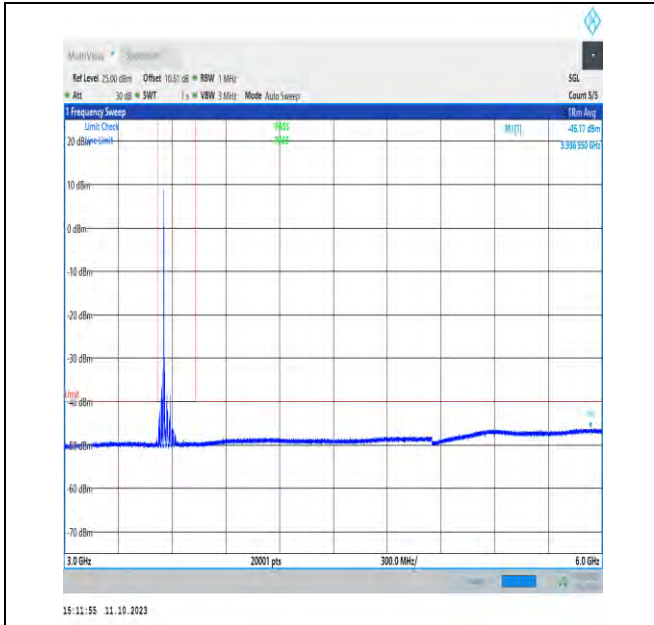
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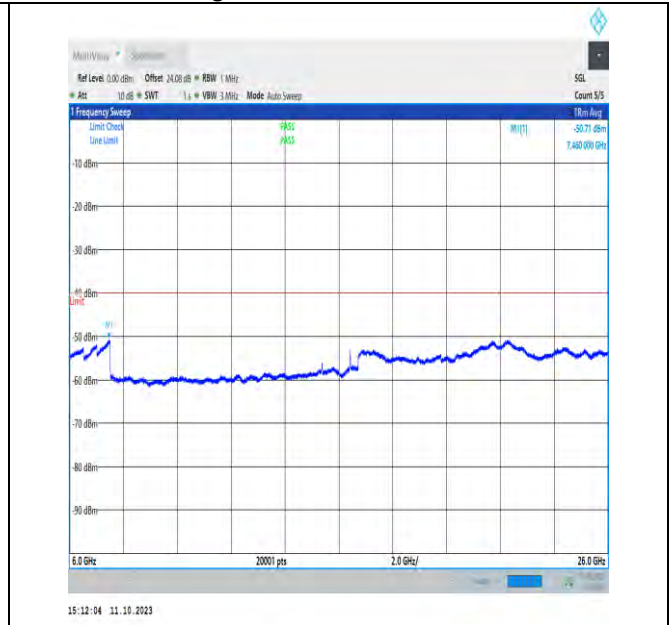
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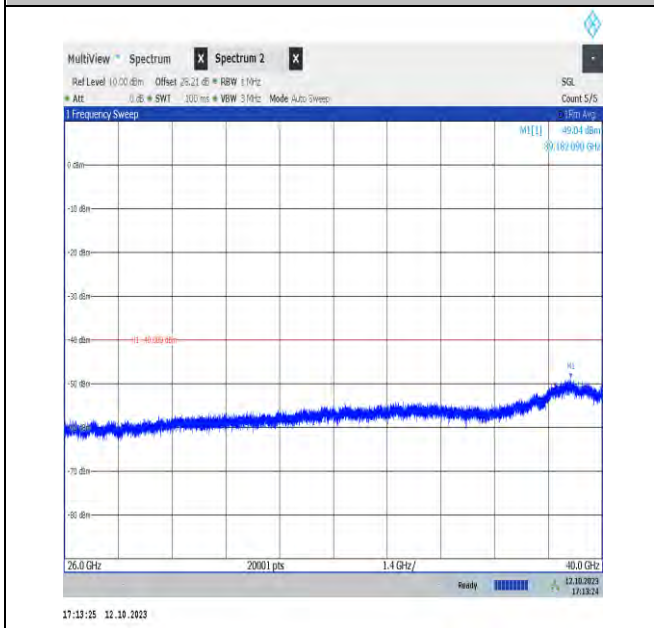
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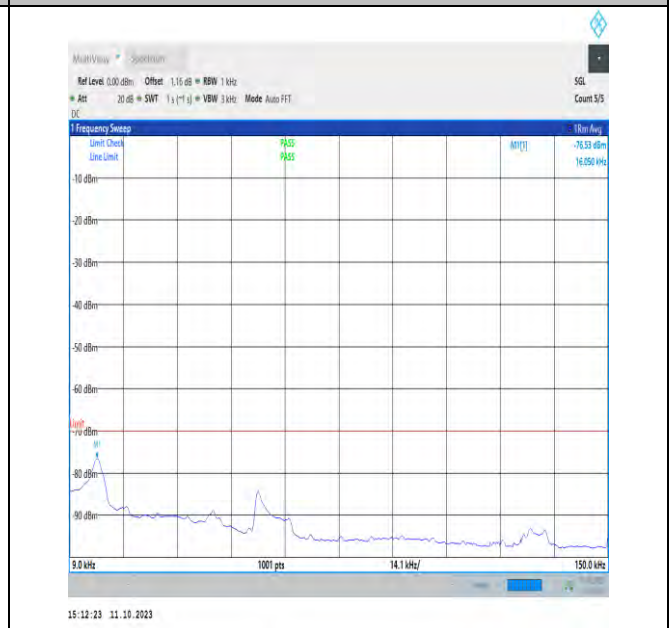
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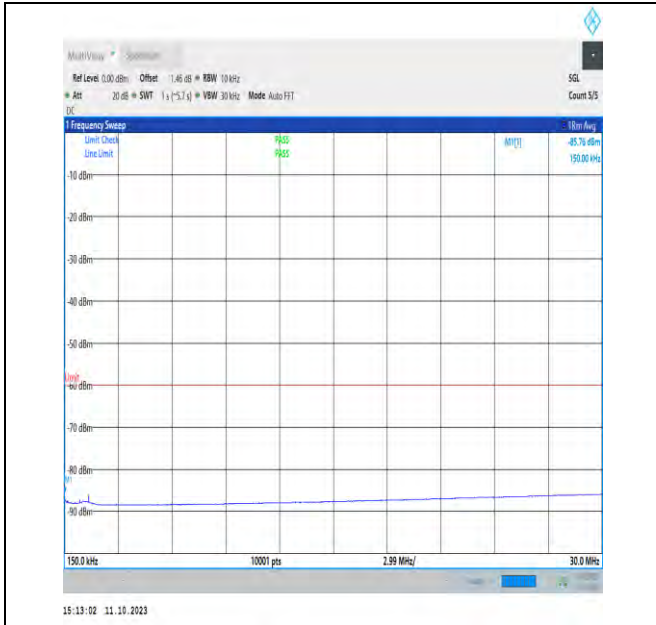
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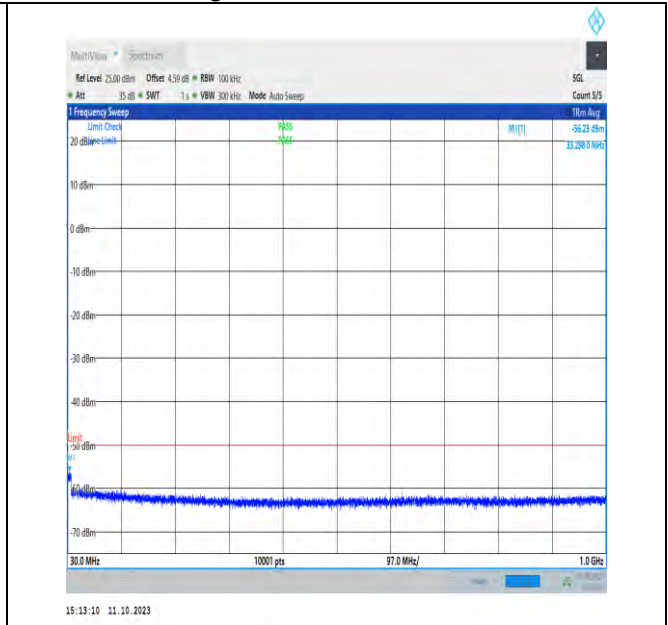
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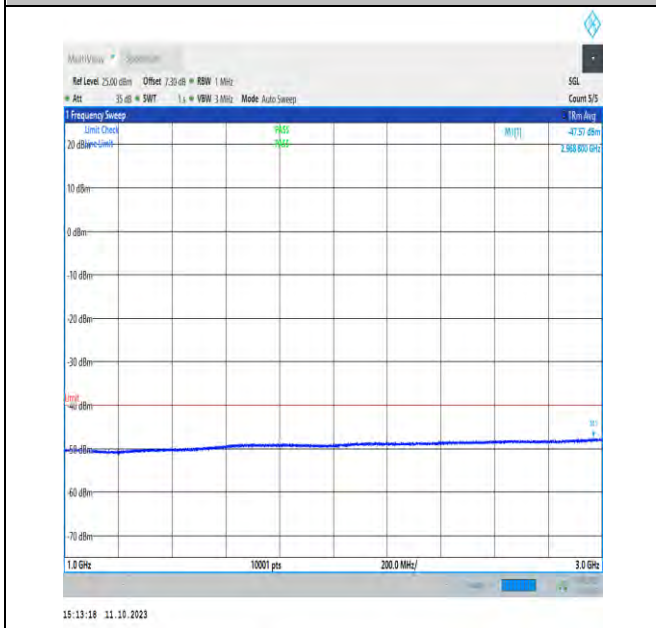
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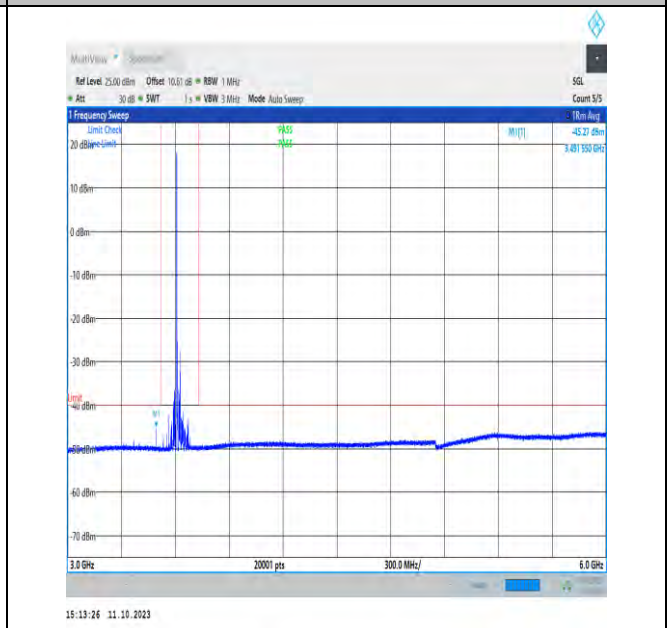
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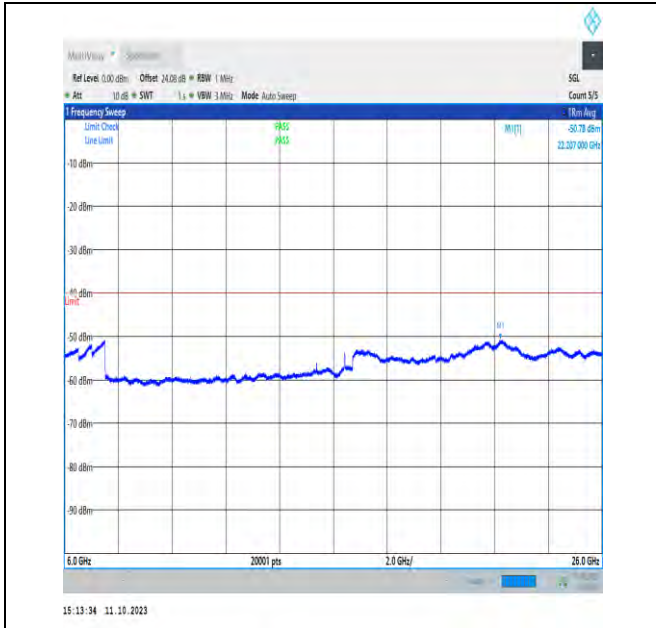
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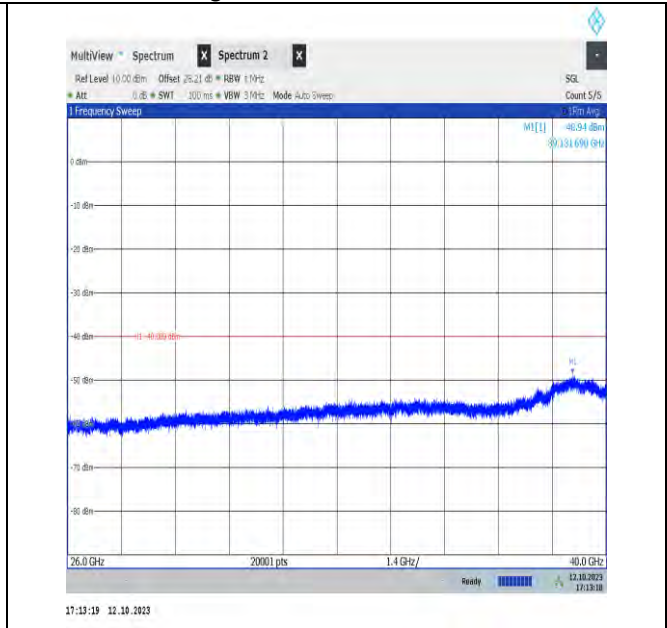
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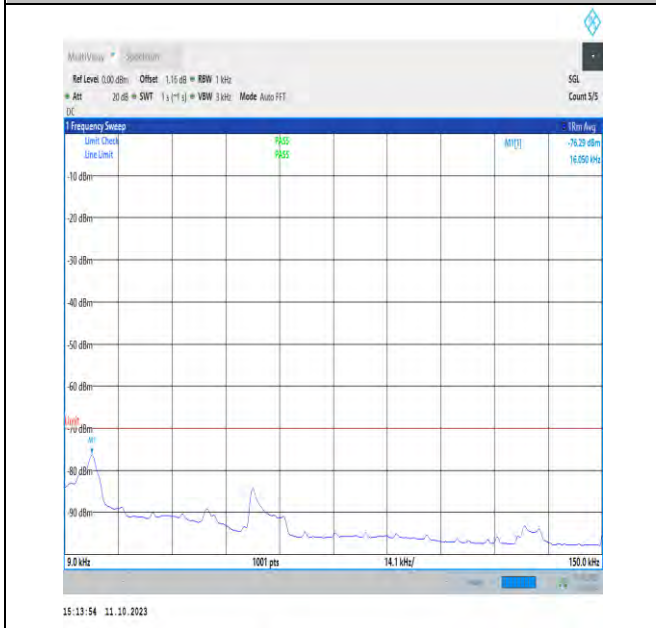
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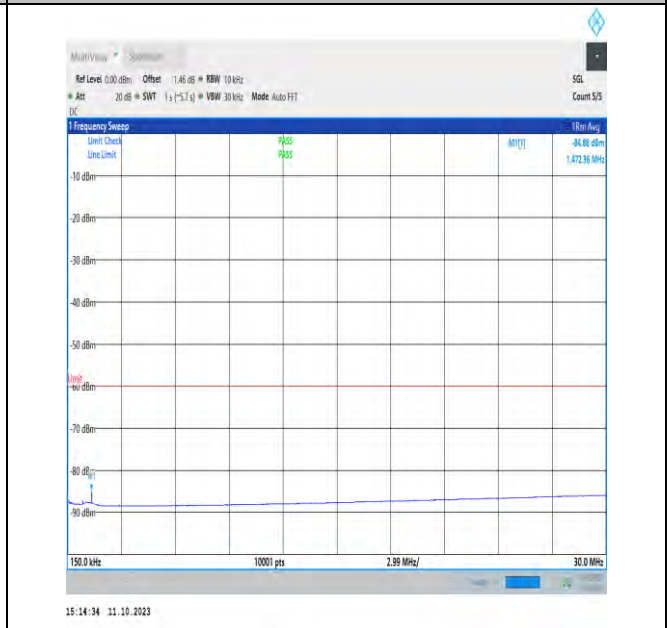


NTVN_N48_PC3_30_40_M_TID1_NS_01_26000_40000_#1

#1



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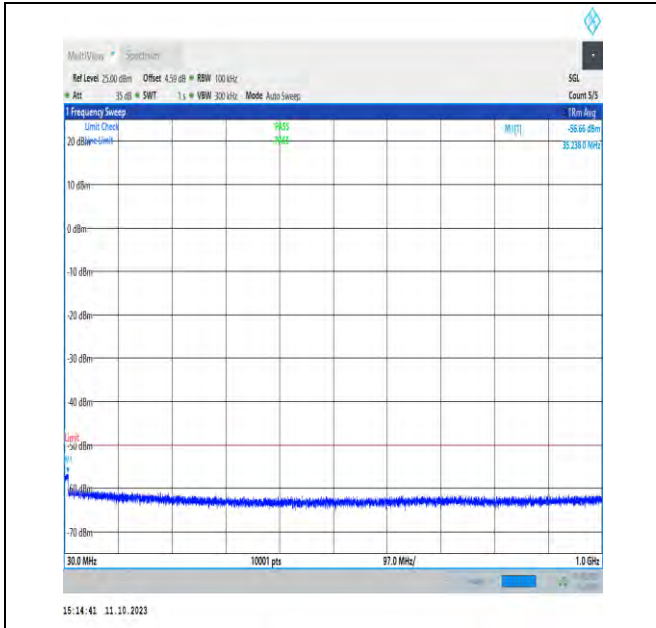
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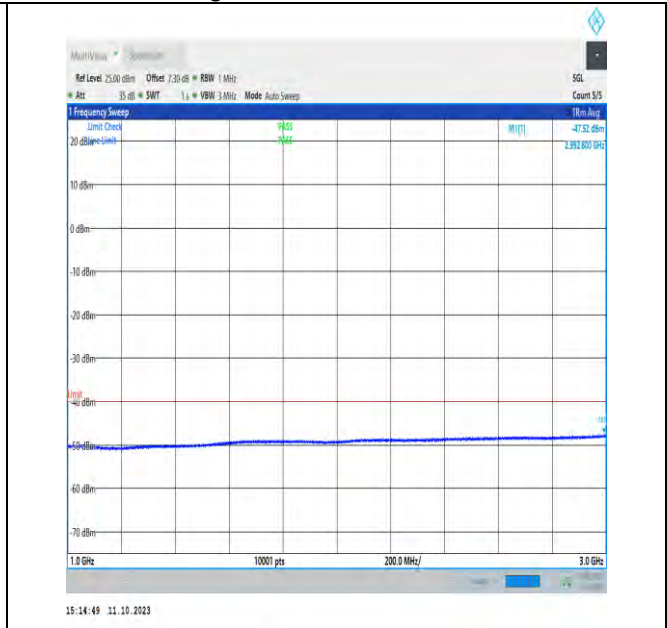
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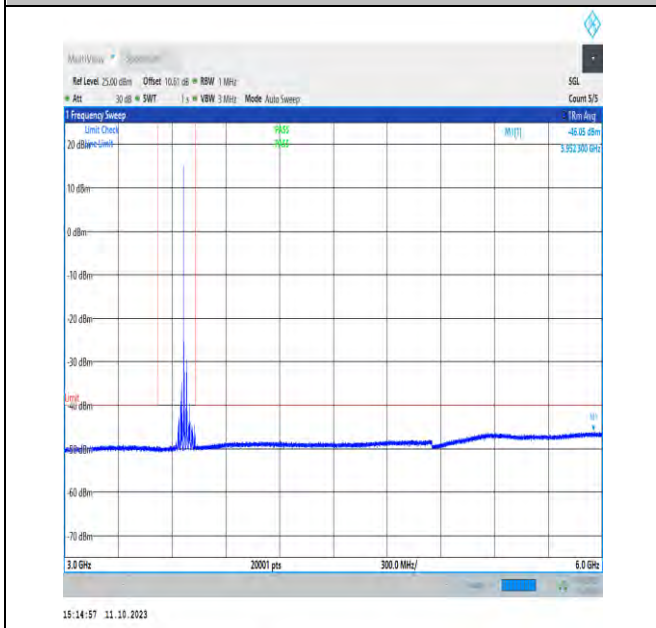
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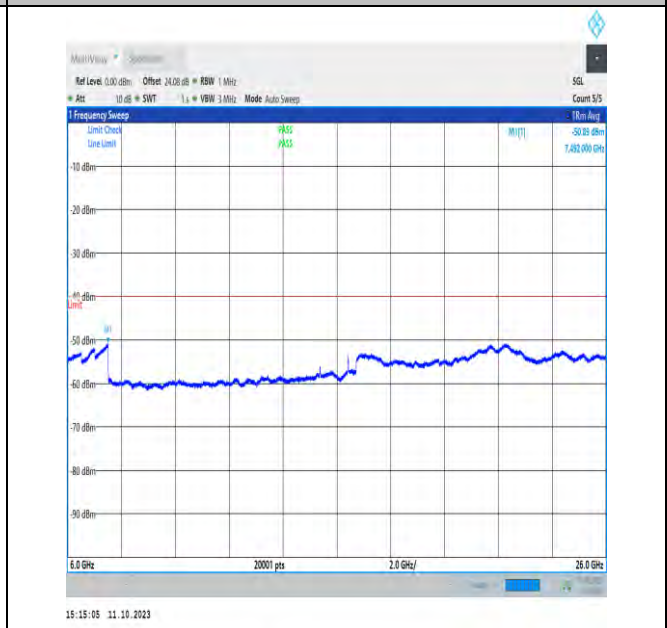
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NTNV_N48_PC3_30_40_H_TID1_NS_01_3000_6000_#1



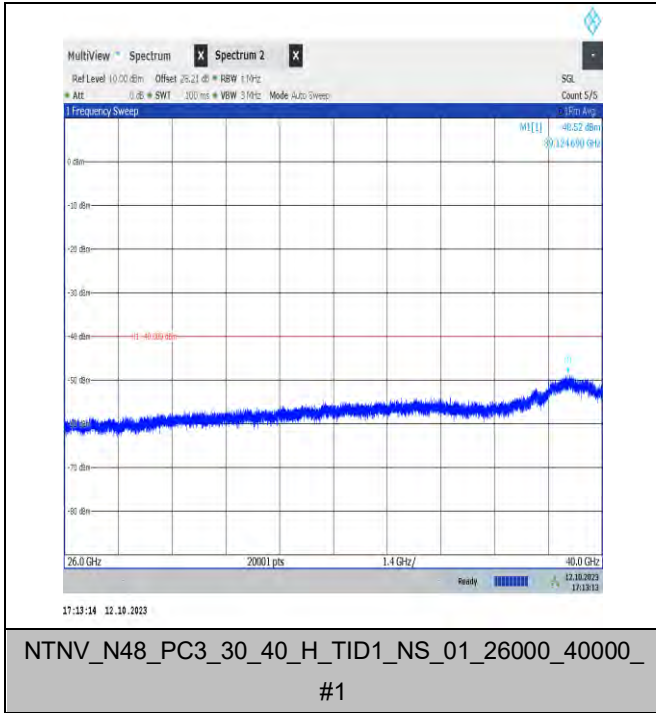
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Field Strength of Spurious Radiation

Test Band = SA Band 48_40MHz_TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8904.4583	34.60	-35.28	37.55	-58.39	-40.00	18.39	Horizontal
2	12848.9583	31.19	-29.81	39.42	-54.46	-40.00	14.46	Horizontal
3	7104.18	33.88	-37.81	36.13	-63.07	-40.00	23.07	Horizontal
4	10656.27	29.72	-31.20	38.23	-58.51	-40.00	18.51	Horizontal
5	14208.36	29.20	-29.67	40.26	-55.48	-40.00	15.48	Horizontal
6	17760.45	27.63	-24.00	40.73	-50.91	-40.00	10.91	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8485.6667	35.04	-35.70	37.34	-58.58	-40.00	18.58	Vertical
2	12774.6875	31.17	-29.66	39.33	-54.42	-40.00	14.42	Vertical
3	7104.18	35.20	-37.81	36.13	-61.75	-40.00	21.75	Vertical
4	10656.27	29.78	-31.20	38.23	-58.45	-40.00	18.45	Vertical
5	14208.36	28.75	-29.67	40.26	-55.93	-40.00	15.93	Vertical
6	17760.45	27.09	-24.00	40.73	-51.45	-40.00	11.45	Vertical



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Test Band = SA Band 48_40MHz_TM1
Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	9503.8958	34.45	-33.89	37.75	-56.95	-40.00	16.95	Horizontal
2	13470.9167	31.23	-29.35	39.93	-53.45	-40.00	13.45	Horizontal
3	17766.1667	28.78	-23.96	40.74	-49.70	-40.00	9.70	Horizontal
4	7232.18	34.15	-37.79	36.28	-62.62	-40.00	22.62	Horizontal
5	10848.27	30.31	-30.69	38.32	-57.32	-40.00	17.32	Horizontal
6	14464.36	28.21	-28.99	40.21	-55.84	-40.00	15.84	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8961.9583	34.48	-34.81	37.58	-58.00	-40.00	18.00	Vertical
2	12953.8958	31.34	-29.88	39.54	-54.26	-40.00	14.26	Vertical
3	16841.375	31.28	-25.94	38.79	-51.13	-40.00	11.13	Vertical
4	7232.18	35.24	-37.79	36.28	-61.53	-40.00	21.53	Vertical
5	10848.27	28.78	-30.69	38.32	-58.85	-40.00	18.85	Vertical
6	14464.36	29.29	-28.99	40.21	-54.76	-40.00	14.76	Vertical



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Test Band = SA Band 48_40MHz_TM1

Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7380.2292	37.84	-37.80	36.46	-58.76	-40.00	18.76	Horizontal
2	9510.6042	34.36	-33.86	37.75	-57.01	-40.00	17.01	Horizontal
3	11136.4167	30.62	-30.19	38.40	-56.43	-40.00	16.43	Horizontal
4	12925.1458	31.60	-30.01	39.51	-54.16	-40.00	14.16	Horizontal
5	14516.4583	30.89	-29.11	40.20	-53.28	-40.00	13.28	Horizontal
6	17963.5833	29.16	-24.55	41.21	-49.44	-40.00	9.44	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7380.7083	39.27	-37.80	36.46	-57.33	-40.00	17.33	Vertical
2	8973.4583	33.86	-34.71	37.59	-58.52	-40.00	18.52	Vertical
3	11179.0625	31.11	-30.28	38.40	-56.03	-40.00	16.03	Vertical
4	13623.7708	31.71	-28.90	40.04	-52.41	-40.00	12.41	Vertical
5	16425.4583	29.84	-26.73	38.50	-53.65	-40.00	13.65	Vertical
6	17787.25	28.59	-23.81	40.79	-49.69	-40.00	9.69	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
N48	30	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	-3.300000	-0.000910	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	-3.000000	-0.000828	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	-1.900000	-0.000524	PASS
N48	30	40	CP-QPSK	M	Outer_Full	VH	NT	-3.400000	-0.000938	PASS
N48	30	40	CP-QPSK	M	Outer_Full	VN	NT	-3.100000	-0.000855	PASS
N48	30	40	CP-QPSK	M	Outer_Full	VL	NT	-2.400000	-0.000662	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	-5.000000	-0.001379	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	-1.800000	-0.000497	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	-3.300000	-0.000910	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	0	-1.800000	-0.000497	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	10	-4.500000	-0.001241	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	20	-4.800000	-0.001324	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	30	-3.600000	-0.000993	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	40	-4.500000	-0.001241	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	50	-4.400000	-0.001214	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	-30	-2.900000	-0.000800	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	-20	-1.200000	-0.000331	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	-10	-3.900000	-0.001076	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	0	-4.300000	-0.001186	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	10	-3.800000	-0.001048	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	20	-4.600000	-0.001269	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	30	-2.200000	-0.000607	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	40	-2.000000	-0.000552	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	50	-3.300000	-0.000910	PASS

---End of Attachment---



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