Appendix B.49

NR CA_n7B

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Effective (Isotropic) Radiated Power Output Data for SA ULCA

Test ResultAnt1

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
CA_n7B	15+15	10+10	DFT-BPSK	L+L	Inner_Full	16.75	18.17	33.00	PASS
CA_n7B	15+15	10+10	DFT-BPSK	L+L	Inner_1RB_Left	16.89	18.31	33.00	PASS
CA_n7B	15+15	10+10	DFT-BPSK	L+L	Inner_1RB_Right	16.59	18.01	33.00	PASS
CA_n7B	15+15	10+10	DFT-QPSK	L+L	Inner_Full	16.52	17.94	33.00	PASS
CA_n7B	15+15	10+10	DFT-QPSK	L+L	Inner_1RB_Left	16.53	17.95	33.00	PASS
CA_n7B	15+15	10+10	DFT-QPSK	L+L	Inner_1RB_Right	16.65	18.07	33.00	PASS
CA_n7B	15+15	10+10	DFT-16QAM	L+L	Inner_Full	16.51	17.93	33.00	PASS
CA_n7B	15+15	10+10	DFT-16QAM	L+L	Inner_1RB_Left	16.89	18.31	33.00	PASS
CA_n7B	15+15	10+10	DFT-16QAM	L+L	Inner_1RB_Right	16.6	18.02	33.00	PASS
CA_n7B	15+15	10+10	DFT-64QAM	L+L	Inner_Full	16.62	18.04	33.00	PASS
CA_n7B	15+15	10+10	DFT-64QAM	L+L	Inner_1RB_Left	16.57	17.99	33.00	PASS
CA_n7B	15+15	10+10	DFT-64QAM	L+L	Inner_1RB_Right	16.44	17.86	33.00	PASS
CA_n7B	15+15	10+10	DFT-256QAM	L+L	Inner_Full	16.68	18.1	33.00	PASS
CA_n7B	15+15	10+10	DFT-256QAM	L+L	Inner_1RB_Left	16.46	17.88	33.00	PASS
CA_n7B	15+15	10+10	DFT-256QAM	L+L	Inner_1RB_Right	16.87	18.29	33.00	PASS
CA_n7B	15+15	20+20	DFT-BPSK	L+L	Inner_Full	16.7	18.12	33.00	PASS
CA_n7B	15+15	20+20	DFT-BPSK	L+L	Inner_1RB_Left	16.72	18.14	33.00	PASS

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CA_n7B	15+15	20+20	DFT-BPSK	L+L	Inner_1RB_Right	16.71	18.13	33.00	PASS
CA_n7B	15+15	20+20	DFT-QPSK	L+L	Inner_Full	16.54	17.96	33.00	PASS
CA_n7B	15+15	20+20	DFT-QPSK	L+L	Inner_1RB_Left	16.62	18.04	33.00	PASS
CA_n7B	15+15	20+20	DFT-QPSK	L+L	Inner_1RB_Right	16.72	18.14	33.00	PASS
CA_n7B	15+15	20+20	DFT-16QAM	L+L	Inner_Full	16.55	17.97	33.00	PASS
CA_n7B	15+15	20+20	DFT-16QAM	L+L	Inner_1RB_Left	16.76	18.18	33.00	PASS
CA_n7B	15+15	20+20	DFT-16QAM	L+L	Inner_1RB_Right	16.83	18.25	33.00	PASS
CA_n7B	15+15	20+20	DFT-64QAM	L+L	Inner_Full	16.62	18.04	33.00	PASS
CA_n7B	15+15	20+20	DFT-64QAM	L+L	Inner_1RB_Left	16.88	18.3	33.00	PASS
CA_n7B	15+15	20+20	DFT-64QAM	L+L	Inner_1RB_Right	16.44	17.86	33.00	PASS
CA_n7B	15+15	20+20	DFT-256QAM	L+L	Inner_Full	16.79	18.21	33.00	PASS
CA_n7B	15+15	20+20	DFT-256QAM	L+L	Inner_1RB_Left	16.49	17.91	33.00	PASS
CA_n7B	15+15	20+20	DFT-256QAM	L+L	Inner_1RB_Right	16.52	17.94	33.00	PASS
CA_n7B	15+15	10+10	DFT-BPSK	M+M	Inner_Full	16.76	18.18	33.00	PASS
CA_n7B	15+15	10+10	DFT-BPSK	M+M	Inner_1RB_Left	16.47	17.89	33.00	PASS
CA_n7B	15+15	10+10	DFT-BPSK	M+M	Inner_1RB_Right	16.65	18.07	33.00	PASS
CA_n7B	15+15	10+10	DFT-QPSK	M+M	Inner_Full	16.84	18.26	33.00	PASS
CA_n7B	15+15	10+10	DFT-QPSK	M+M	Inner_1RB_Left	16.5	17.92	33.00	PASS
CA_n7B	15+15	10+10	DFT-QPSK	M+M	Inner_1RB_Right	16.68	18.1	33.00	PASS
CA_n7B	15+15	10+10	DFT-	M+M	Inner_Full	16.87	18.29	33.00	PASS

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			16QAM						
CA_n7B	15+15	10+10	DFT-16QAM	M+M	Inner_1RB_Left	16.84	18.26	33.00	PASS
CA_n7B	15+15	10+10	DFT-16QAM	M+M	Inner_1RB_Right	16.76	18.18	33.00	PASS
CA_n7B	15+15	10+10	DFT-64QAM	M+M	Inner_Full	16.65	18.07	33.00	PASS
CA_n7B	15+15	10+10	DFT-64QAM	M+M	Inner_1RB_Left	16.62	18.04	33.00	PASS
CA_n7B	15+15	10+10	DFT-64QAM	M+M	Inner_1RB_Right	16.59	18.01	33.00	PASS
CA_n7B	15+15	10+10	DFT-256QAM	M+M	Inner_Full	16.51	17.93	33.00	PASS
CA_n7B	15+15	10+10	DFT-256QAM	M+M	Inner_1RB_Left	16.55	17.97	33.00	PASS
CA_n7B	15+15	10+10	DFT-256QAM	M+M	Inner_1RB_Right	16.81	18.23	33.00	PASS
CA_n7B	15+15	20+20	DFT-BPSK	M+M	Inner_Full	16.82	18.24	33.00	PASS
CA_n7B	15+15	20+20	DFT-BPSK	M+M	Inner_1RB_Left	16.48	17.9	33.00	PASS
CA_n7B	15+15	20+20	DFT-BPSK	M+M	Inner_1RB_Right	16.65	18.07	33.00	PASS
CA_n7B	15+15	20+20	DFT-QPSK	M+M	Inner_Full	16.57	17.99	33.00	PASS
CA_n7B	15+15	20+20	DFT-QPSK	M+M	Inner_1RB_Left	16.55	17.97	33.00	PASS
CA_n7B	15+15	20+20	DFT-QPSK	M+M	Inner_1RB_Right	16.76	18.18	33.00	PASS
CA_n7B	15+15	20+20	DFT-16QAM	M+M	Inner_Full	16.46	17.88	33.00	PASS
CA_n7B	15+15	20+20	DFT-16QAM	M+M	Inner_1RB_Left	16.62	18.04	33.00	PASS
CA_n7B	15+15	20+20	DFT-16QAM	M+M	Inner_1RB_Right	16.7	18.12	33.00	PASS
CA_n7B	15+15	20+20	DFT-64QAM	M+M	Inner_Full	16.7	18.12	33.00	PASS
CA_n7B	15+15	20+20	DFT-	M+M	Inner_1RB_Left	16.55	17.97	33.00	PASS

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			64QAM						
CA_n7B	15+15	20+20	DFT-64QAM	M+M	Inner_1RB_Right	16.55	17.97	33.00	PASS
CA_n7B	15+15	20+20	DFT-256QAM	M+M	Inner_Full	16.79	18.21	33.00	PASS
CA_n7B	15+15	20+20	DFT-256QAM	M+M	Inner_1RB_Left	16.62	18.04	33.00	PASS
CA_n7B	15+15	20+20	DFT-256QAM	M+M	Inner_1RB_Right	16.49	17.91	33.00	PASS
CA_n7B	15+15	10+10	DFT-BPSK	H+H	Inner_Full	16.61	18.03	33.00	PASS
CA_n7B	15+15	10+10	DFT-BPSK	H+H	Inner_1RB_Left	16.49	17.91	33.00	PASS
CA_n7B	15+15	10+10	DFT-BPSK	H+H	Inner_1RB_Right	16.62	18.04	33.00	PASS
CA_n7B	15+15	10+10	DFT-QPSK	H+H	Inner_Full	16.86	18.28	33.00	PASS
CA_n7B	15+15	10+10	DFT-QPSK	H+H	Inner_1RB_Left	16.47	17.89	33.00	PASS
CA_n7B	15+15	10+10	DFT-QPSK	H+H	Inner_1RB_Right	16.45	17.87	33.00	PASS
CA_n7B	15+15	10+10	DFT-16QAM	H+H	Inner_Full	16.83	18.25	33.00	PASS
CA_n7B	15+15	10+10	DFT-16QAM	H+H	Inner_1RB_Left	16.88	18.3	33.00	PASS
CA_n7B	15+15	10+10	DFT-16QAM	H+H	Inner_1RB_Right	16.83	18.25	33.00	PASS
CA_n7B	15+15	10+10	DFT-64QAM	H+H	Inner_Full	16.62	18.04	33.00	PASS
CA_n7B	15+15	10+10	DFT-64QAM	H+H	Inner_1RB_Left	16.88	18.3	33.00	PASS
CA_n7B	15+15	10+10	DFT-64QAM	H+H	Inner_1RB_Right	16.47	17.89	33.00	PASS
CA_n7B	15+15	10+10	DFT-256QAM	H+H	Inner_Full	16.47	17.89	33.00	PASS
CA_n7B	15+15	10+10	DFT-256QAM	H+H	Inner_1RB_Left	16.79	18.21	33.00	PASS
CA_n7B	15+15	10+10	DFT-	H+H	Inner_1RB_Right	16.51	17.93	33.00	PASS

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			256QAM						
CA_n7B	15+15	20+20	DFT-BPSK	H+H	Inner_Full	16.78	18.2	33.00	PASS
CA_n7B	15+15	20+20	DFT-BPSK	H+H	Inner_1RB_Left	16.59	18.01	33.00	PASS
CA_n7B	15+15	20+20	DFT-BPSK	H+H	Inner_1RB_Right	16.77	18.19	33.00	PASS
CA_n7B	15+15	20+20	DFT-QPSK	H+H	Inner_Full	16.72	18.14	33.00	PASS
CA_n7B	15+15	20+20	DFT-QPSK	H+H	Inner_1RB_Left	16.49	17.91	33.00	PASS
CA_n7B	15+15	20+20	DFT-QPSK	H+H	Inner_1RB_Right	16.79	18.21	33.00	PASS
CA_n7B	15+15	20+20	DFT-16QAM	H+H	Inner_Full	16.56	17.98	33.00	PASS
CA_n7B	15+15	20+20	DFT-16QAM	H+H	Inner_1RB_Left	16.44	17.86	33.00	PASS
CA_n7B	15+15	20+20	DFT-16QAM	H+H	Inner_1RB_Right	16.61	18.03	33.00	PASS
CA_n7B	15+15	20+20	DFT-64QAM	H+H	Inner_Full	16.61	18.03	33.00	PASS
CA_n7B	15+15	20+20	DFT-64QAM	H+H	Inner_1RB_Left	16.61	18.03	33.00	PASS
CA_n7B	15+15	20+20	DFT-64QAM	H+H	Inner_1RB_Right	16.62	18.04	33.00	PASS
CA_n7B	15+15	20+20	DFT-256QAM	H+H	Inner_Full	16.64	18.06	33.00	PASS
CA_n7B	15+15	20+20	DFT-256QAM	H+H	Inner_1RB_Left	16.72	18.14	33.00	PASS
CA_n7B	15+15	20+20	DFT-256QAM	H+H	Inner_1RB_Right	16.49	17.91	33.00	PASS

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26dB Bandwidth and Occupied Bandwidth for SA ULCA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
CA_n7B	15+15	10+10	DFT-BPSK	M+M	Outer_Full	18.983	20.150	PASS
CA_n7B	15+15	10+10	DFT-QPSK	M+M	Outer_Full	18.984	20.150	PASS
CA_n7B	15+15	10+10	DFT-16QAM	M+M	Outer_Full	18.988	20.150	PASS
CA_n7B	15+15	10+10	DFT-64QAM	M+M	Outer_Full	18.984	20.150	PASS
CA_n7B	15+15	10+10	DFT-256QAM	M+M	Outer_Full	18.981	20.150	PASS
CA_n7B	15+15	10+10	CP-QPSK	M+M	Outer_Full	18.982	20.150	PASS
CA_n7B	15+15	10+10	CP-16QAM	M+M	Outer_Full	18.983	20.150	PASS
CA_n7B	15+15	10+10	CP-64QAM	M+M	Outer_Full	18.98	20.110	PASS
CA_n7B	15+15	10+10	CP-256QAM	M+M	Outer_Full	18.979	20.150	PASS
CA_n7B	15+15	20+20	DFT-BPSK	M+M	Outer_Full	37.637	39.151	PASS
CA_n7B	15+15	20+20	DFT-QPSK	M+M	Outer_Full	37.622	39.151	PASS
CA_n7B	15+15	20+20	DFT-16QAM	M+M	Outer_Full	37.695	39.151	PASS
CA_n7B	15+15	20+20	DFT-64QAM	M+M	Outer_Full	37.639	39.151	PASS
CA_n7B	15+15	20+20	DFT-256QAM	M+M	Outer_Full	37.626	39.151	PASS
CA_n7B	15+15	20+20	CP-QPSK	M+M	Outer_Full	37.631	39.151	PASS
CA_n7B	15+15	20+20	CP-16QAM	M+M	Outer_Full	37.632	39.151	PASS
CA_n7B	15+15	20+20	CP-64QAM	M+M	Outer_Full	37.629	39.151	PASS
CA_n7B	15+15	20+20	CP-256QAM	M+M	Outer_Full	37.628	39.151	PASS

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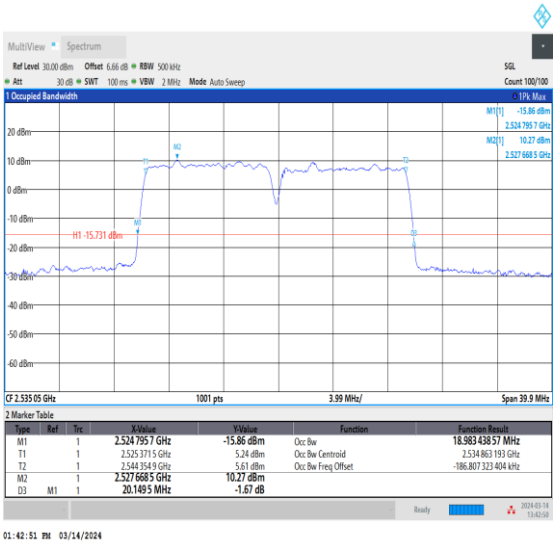
Test Graphs



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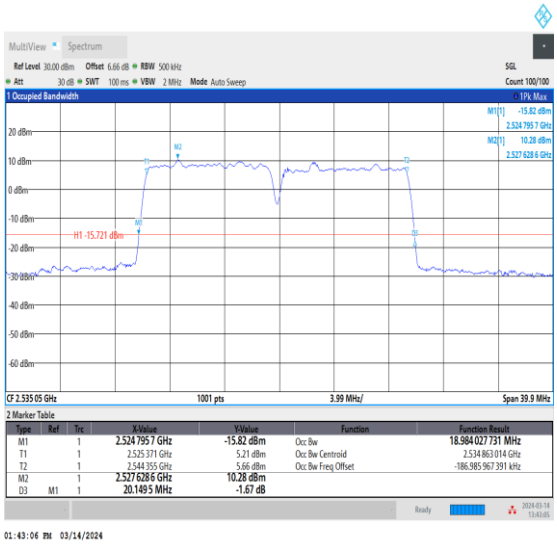

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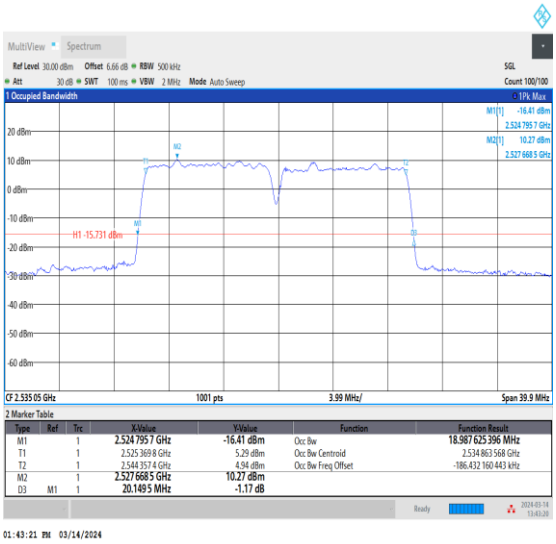

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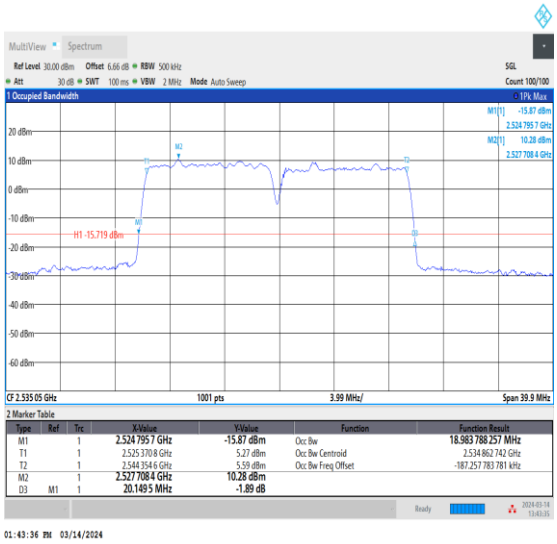

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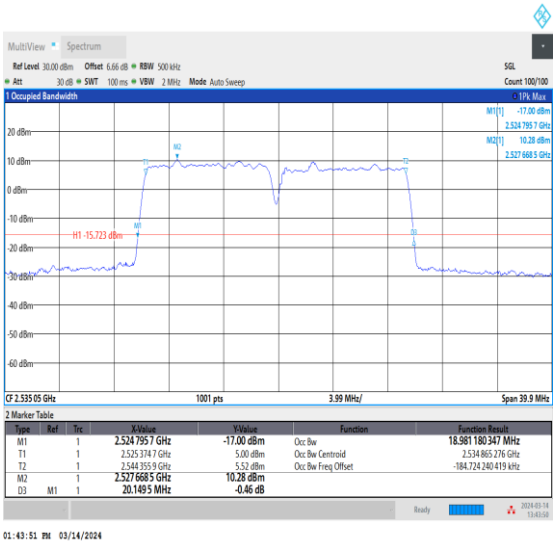

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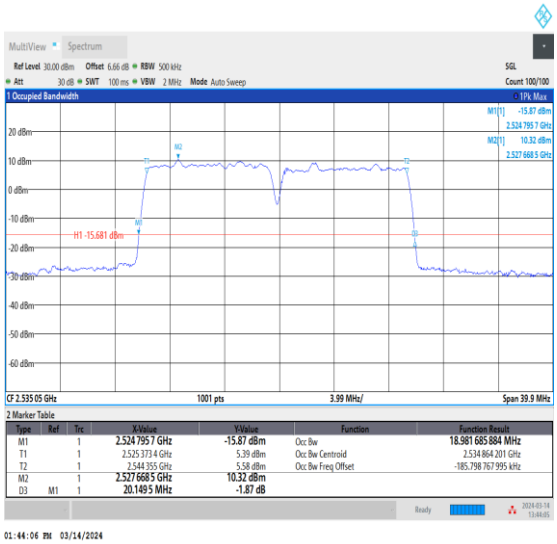

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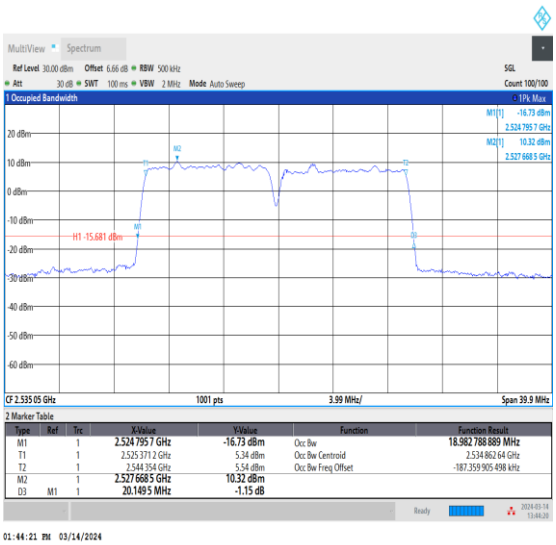

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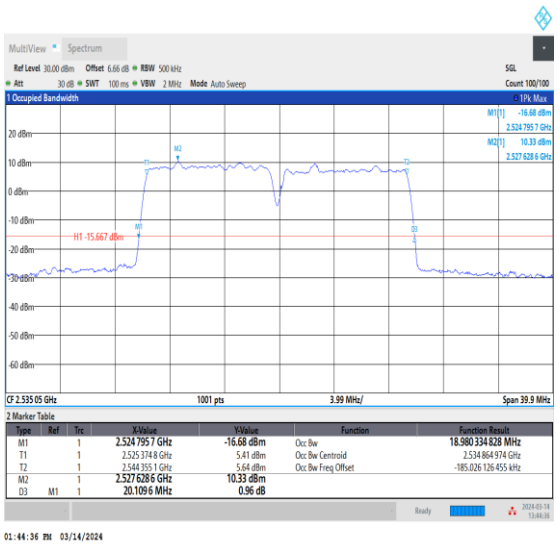

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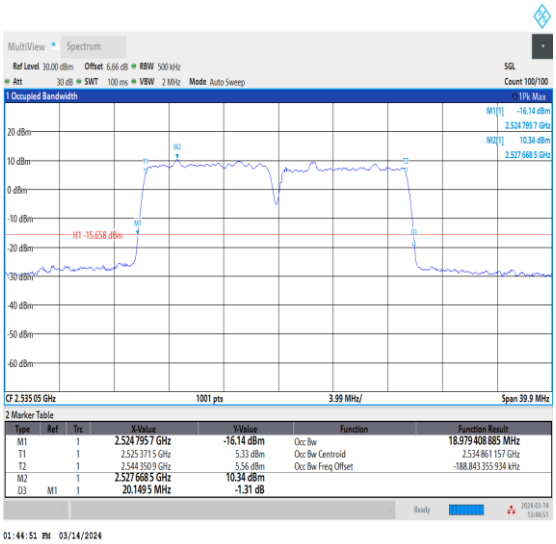

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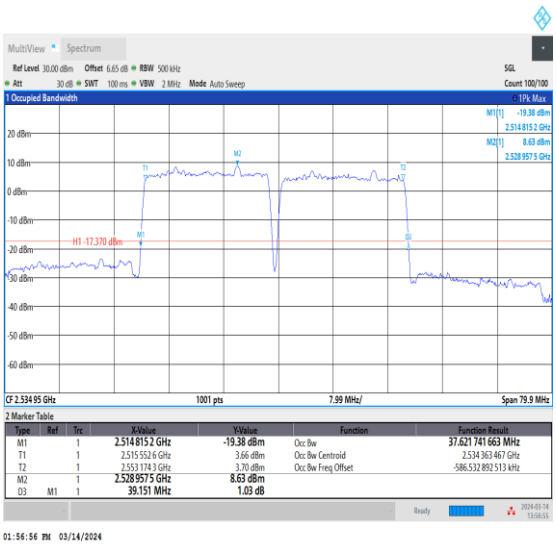

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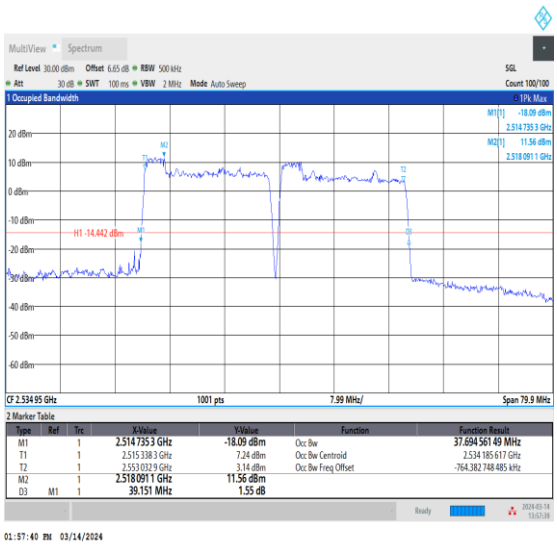

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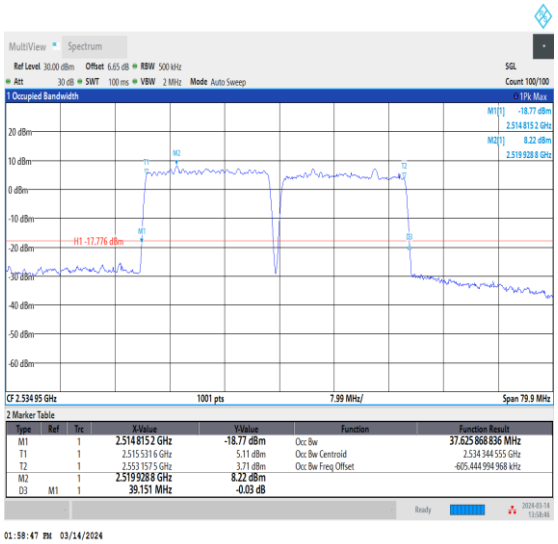

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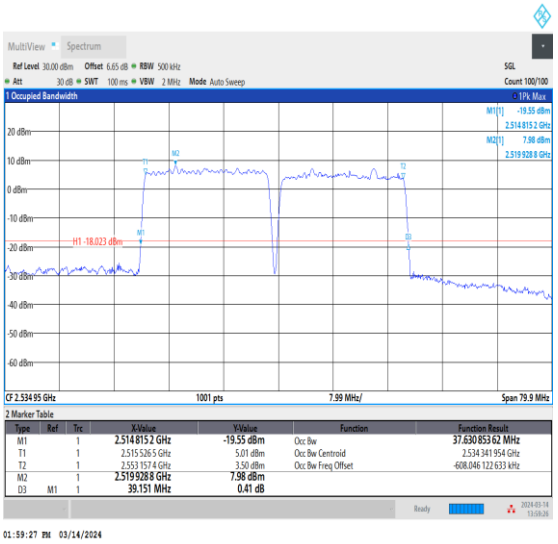

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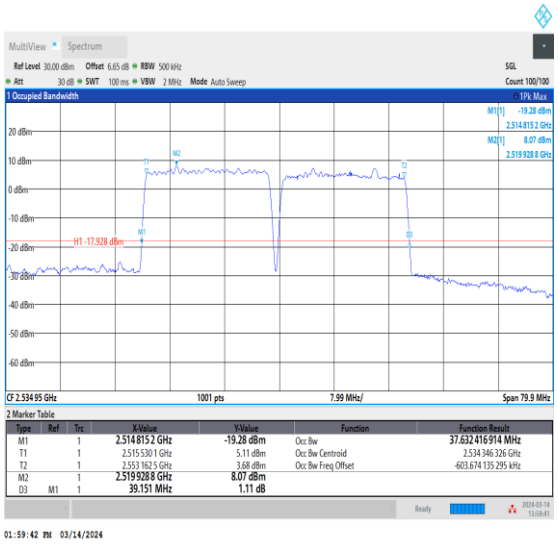

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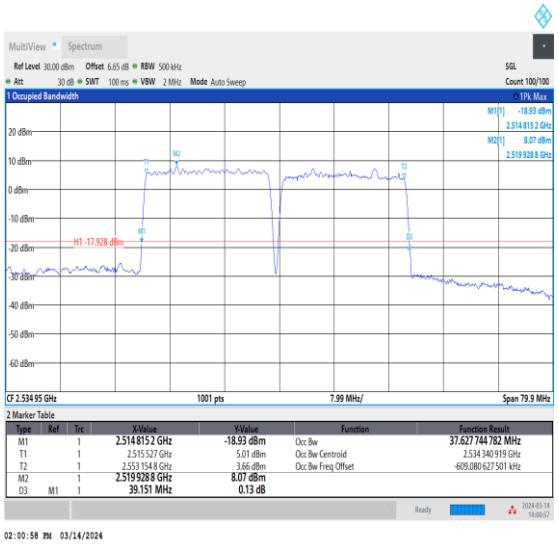

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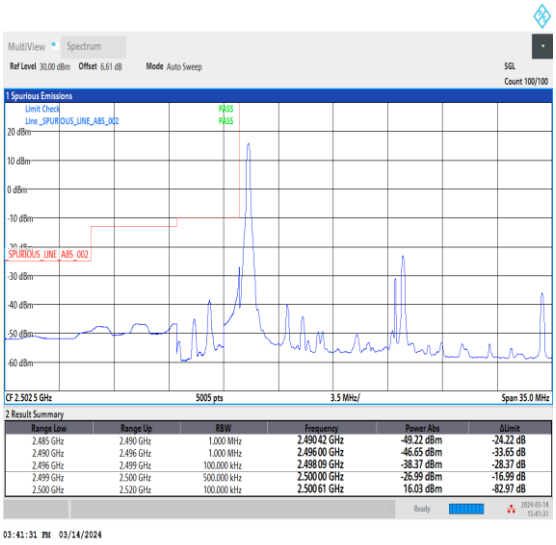
Band Edge for SA ULCA

Test Graphs



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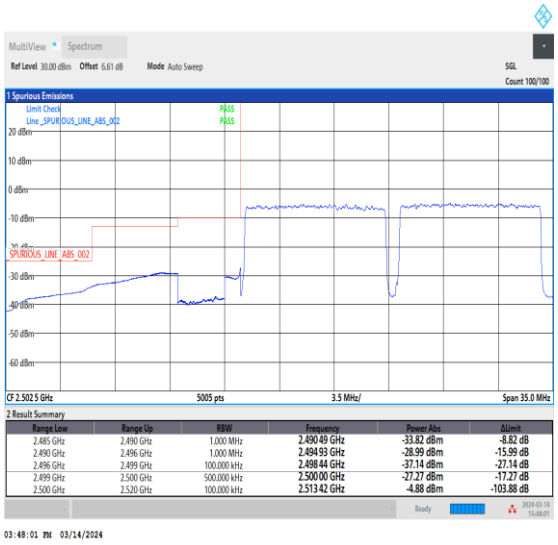

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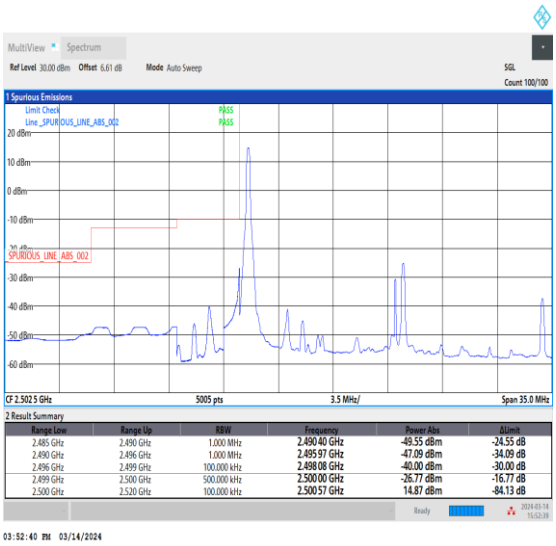

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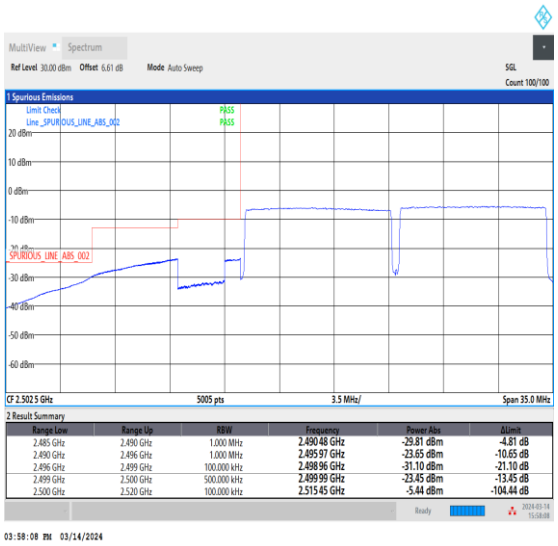

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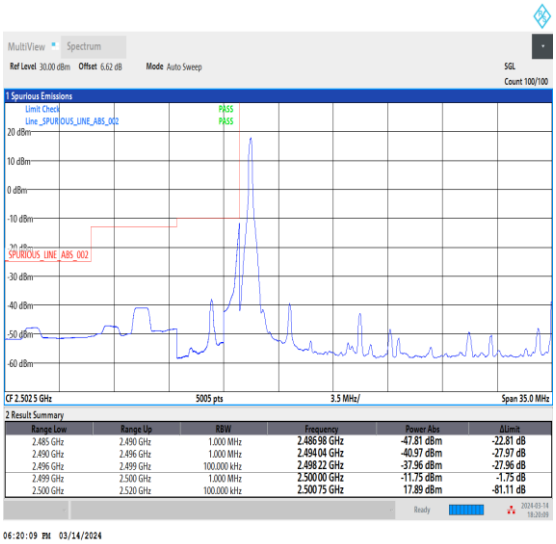

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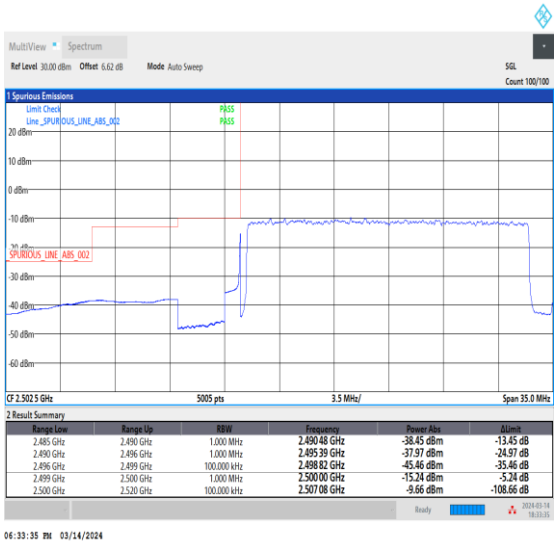

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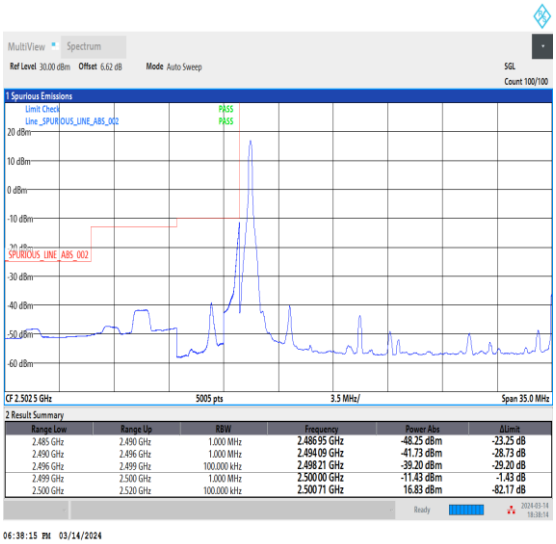

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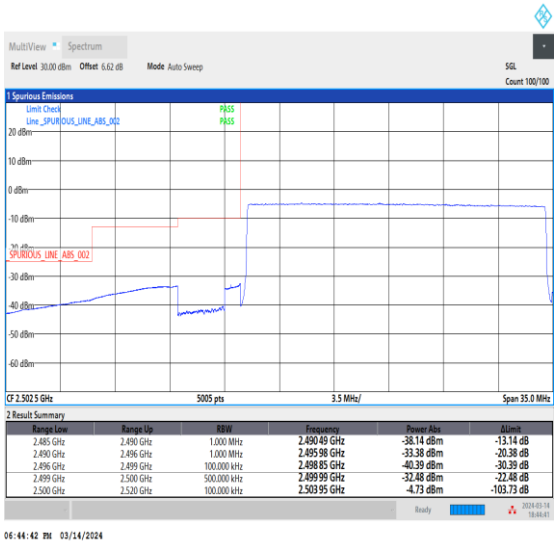

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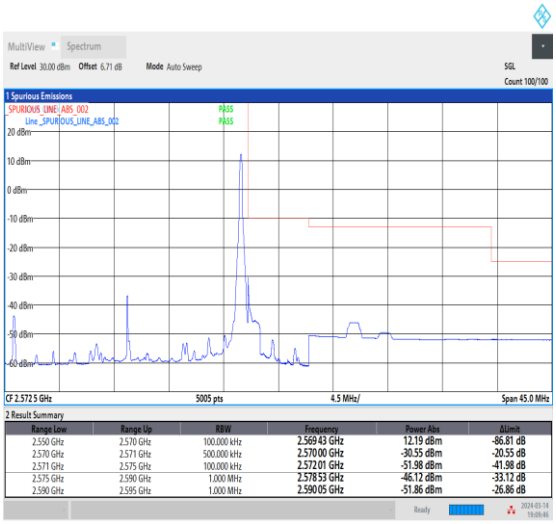

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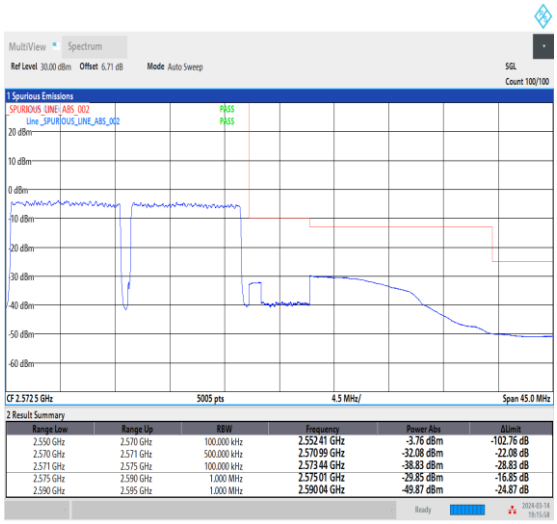

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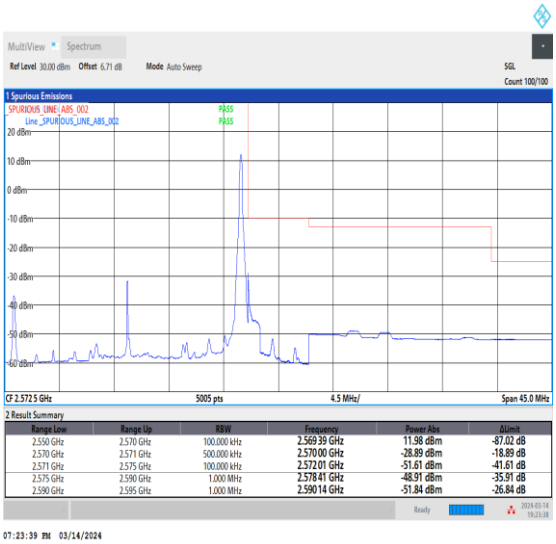

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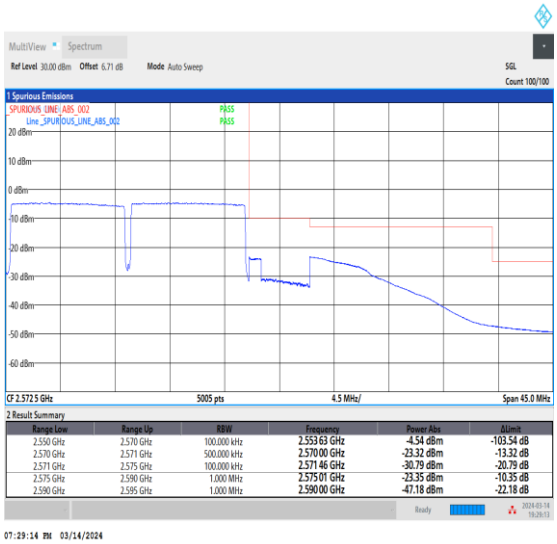

NTNV_CA_n7B_PC3_15+15_10+10_H+H_TID6_1_#1

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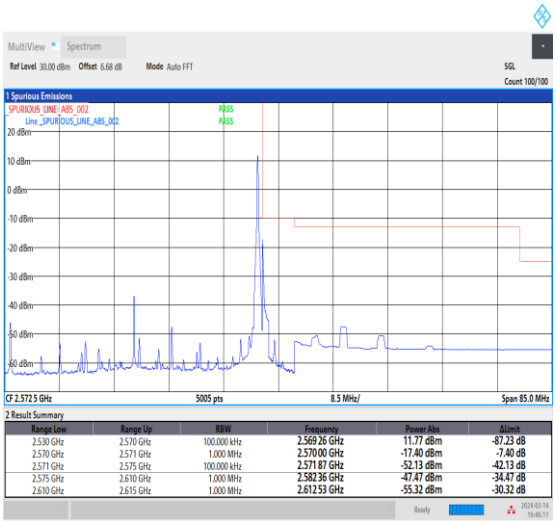

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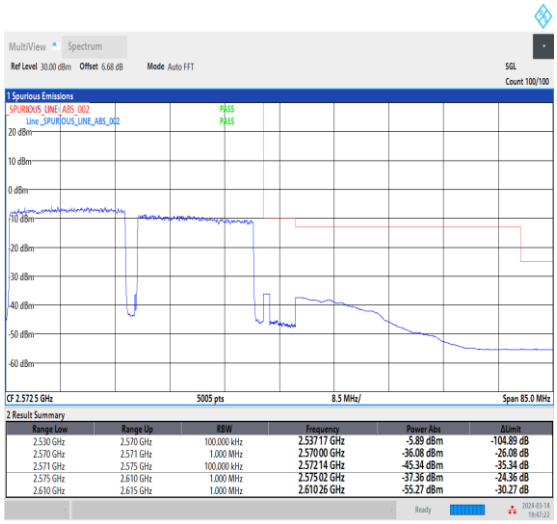

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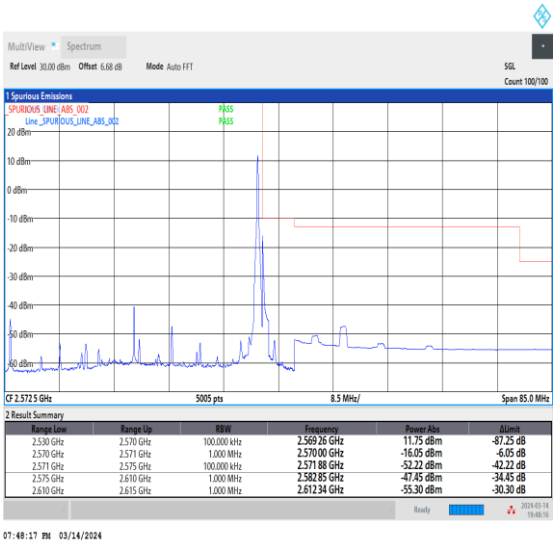

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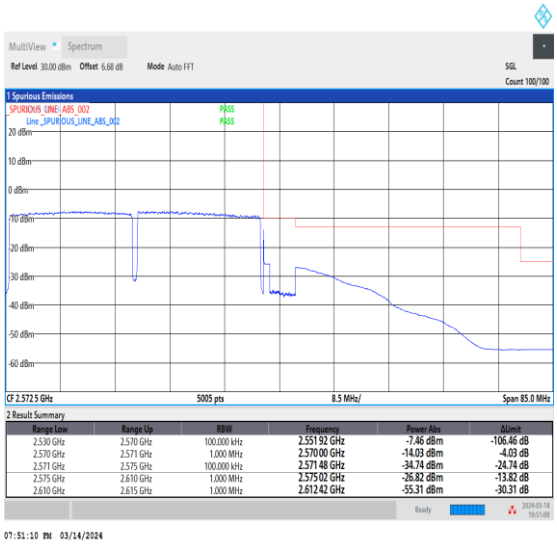

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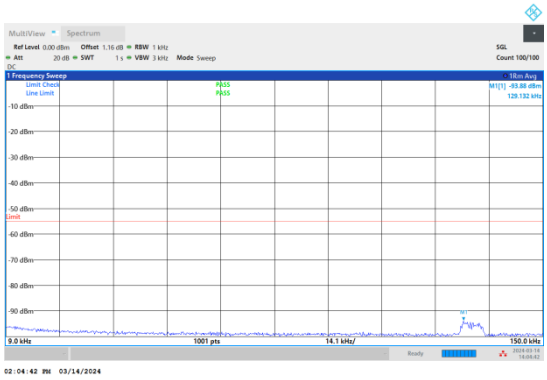
Conducted Spurious Emission for SA ULCA

Test Graphs



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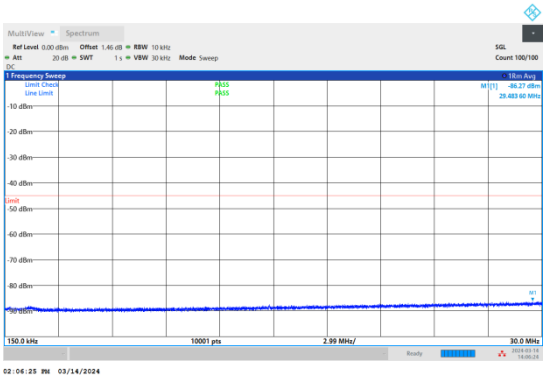

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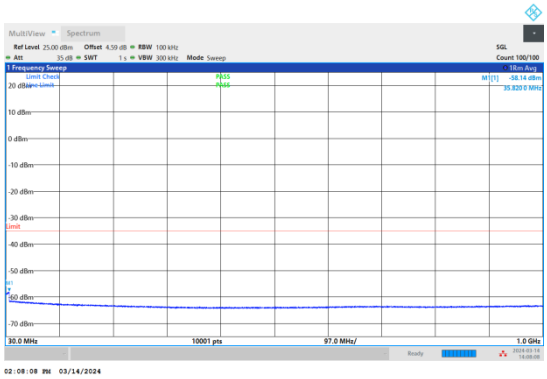

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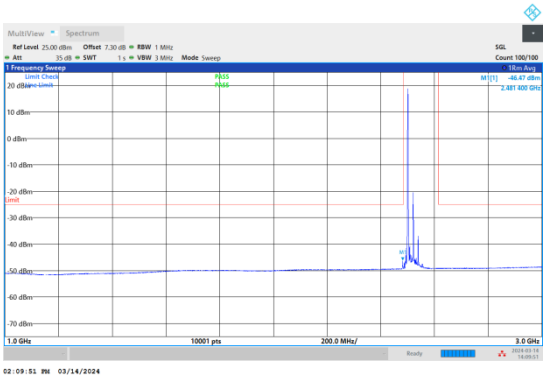

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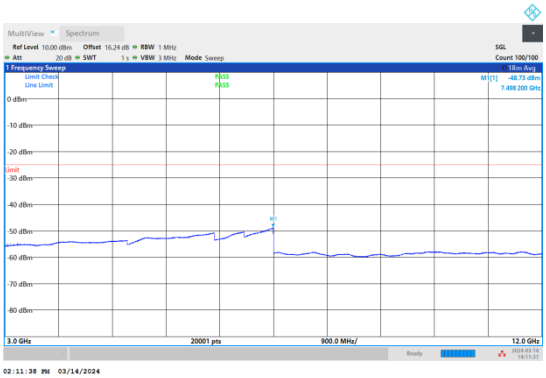

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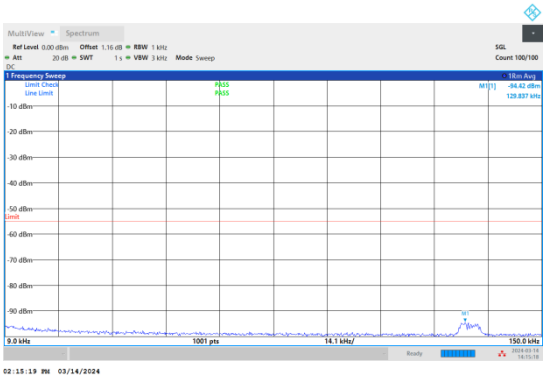

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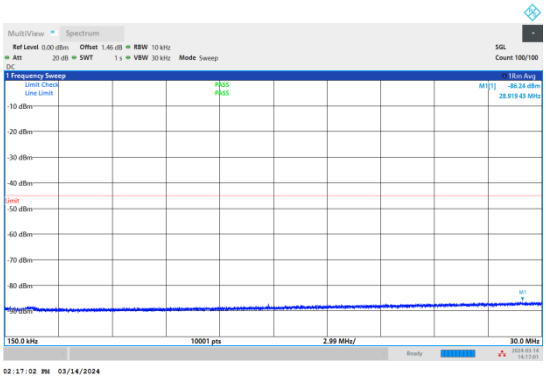

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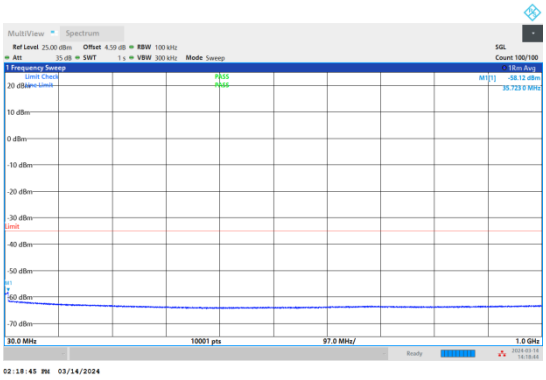

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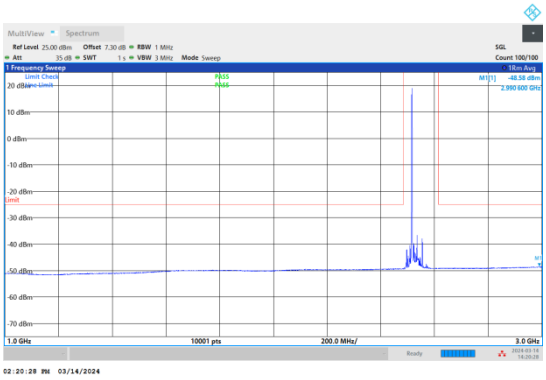

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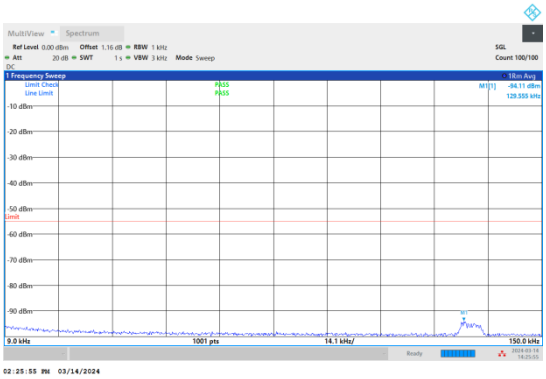

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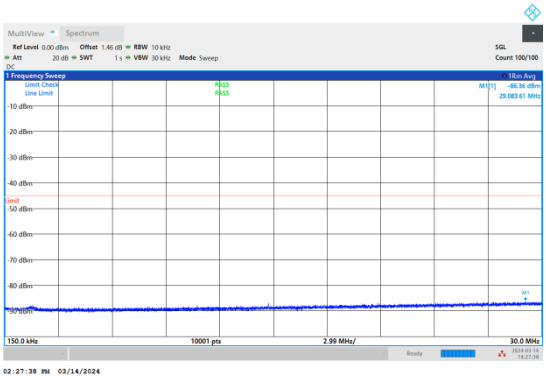

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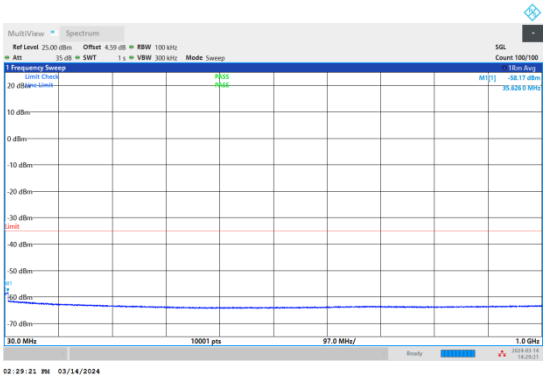

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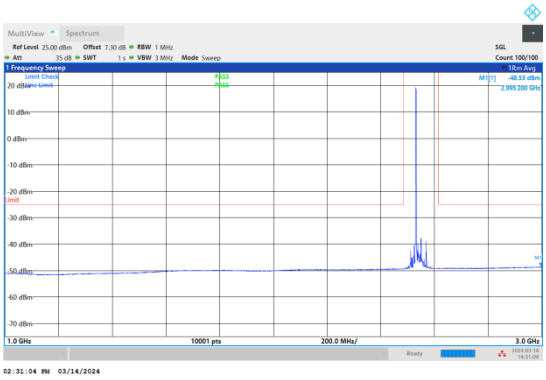

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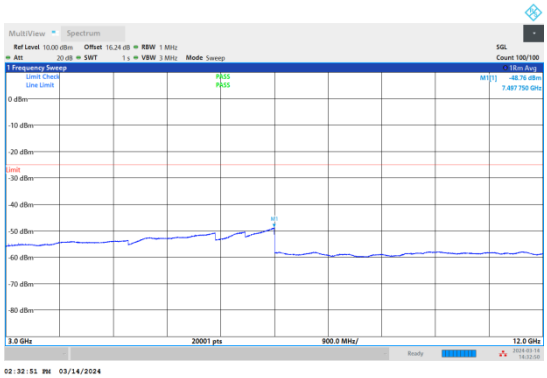	
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Field Strength of Spurious Radiation

Test Band = NR CA n7B_ 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	3985.5	45.40	-48.20	29.38	-68.68	-25.00	43.68	Horizontal
2	6344.5	44.61	-47.15	33.97	-63.83	-25.00	38.83	Horizontal
3	8350	42.22	-44.33	36.69	-60.68	-25.00	35.68	Horizontal
4	10282.5	39.20	-41.32	38.75	-58.63	-25.00	33.63	Horizontal
5	12110	38.35	-39.65	39.13	-57.43	-25.00	32.43	Horizontal
6	15209.5	35.66	-36.76	39.70	-56.66	-25.00	31.66	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3947.5	45.21	-48.24	29.33	-68.96	-25.00	43.96	Vertical
2	5264.5	45.19	-47.82	32.13	-65.75	-25.00	40.75	Vertical
3	7677.5	43.25	-45.07	36.59	-60.49	-25.00	35.49	Vertical
4	9239	42.16	-43.28	37.82	-58.57	-25.00	33.57	Vertical
5	10871.5	38.61	-40.21	39.28	-57.58	-25.00	32.58	Vertical
6	14753	36.65	-36.77	40.30	-55.08	-25.00	30.08	Vertical

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Test Band = NR CA n7B_ 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	3592.5	45.70	-48.28	28.83	-69.01	-25.00	44.01	Horizontal
2	5310.5	44.98	-47.77	32.25	-65.81	-25.00	40.81	Horizontal
3	7786.5	43.39	-44.95	36.46	-60.36	-25.00	35.36	Horizontal
4	9292.5	42.17	-42.93	37.86	-58.16	-25.00	33.16	Horizontal
5	11404	38.46	-40.08	39.32	-57.56	-25.00	32.56	Horizontal
6	14392.5	36.89	-38.57	40.59	-56.35	-25.00	31.35	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3291	46.02	-48.04	28.62	-68.67	-25.00	43.67	Vertical
2	5108.5	44.01	-47.83	31.76	-67.32	-25.00	42.32	Vertical
3	6653.5	44.52	-46.78	34.84	-62.68	-25.00	37.68	Vertical
4	7662	43.18	-44.97	36.61	-60.44	-25.00	35.44	Vertical
5	10570	38.90	-41.07	39.01	-58.42	-25.00	33.42	Vertical
6	14107.5	36.79	-38.44	40.81	-56.09	-25.00	31.09	Vertical

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Test Band = NR CA n7B_ 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	3552	45.20	-48.28	28.77	-69.57	-25.00	44.57	Horizontal
2	4660	45.47	-47.98	30.68	-67.08	-25.00	42.08	Horizontal
3	6309.5	44.08	-47.28	33.85	-64.61	-25.00	39.61	Horizontal
4	8746	42.05	-44.06	37.24	-60.03	-25.00	35.03	Horizontal
5	11384.5	38.41	-40.14	39.32	-57.67	-25.00	32.67	Horizontal
6	14828.5	36.39	-37.00	40.24	-55.63	-25.00	30.63	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3789	45.54	-48.22	29.10	-68.83	-25.00	43.83	Vertical
2	5617.5	44.82	-47.66	32.72	-65.38	-25.00	40.38	Vertical
3	7224.5	43.55	-46.19	36.14	-61.76	-25.00	36.76	Vertical
4	9281.5	41.54	-43.00	37.85	-58.87	-25.00	33.87	Vertical
5	11987	38.03	-39.49	39.20	-57.52	-25.00	32.52	Vertical
6	14733	36.43	-36.74	40.31	-55.25	-25.00	30.25	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 ULCA

Test Result

Frequency Error VS. Voltage

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N7B	15	20+20	DFT-PI2BPSK	M	Outer_Full	VH	NT	-4.300000	-0.005935	PASS
N7B	15	20+20	DFT-PI2BPSK	M	Outer_Full	VN	NT	-3.700000	-0.005099	PASS
N7B	15	20+20	DFT-PI2BPSK	M	Outer_Full	VL	NT	-4.900000	-0.006896	PASS
N7B	15	20+20	CP-QPSK	M	Outer_Full	VH	NT	-7.800000	-0.009640	PASS
N7B	15	20+20	CP-QPSK	M	Outer_Full	VN	NT	-5.900000	-0.008444	PASS
N7B	15	20+20	CP-QPSK	M	Outer_Full	VL	NT	-5.000000	-0.006889	PASS

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Frequency Error VS. Temperature

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N7B	15	20+20	DFT-PI2BPSK	M	Outer_Full	NV	-30	-4.600000	-0.005927	PASS
N7B	15	20+20	DFT-PI2BPSK	M	Outer_Full	NV	-20	-3.800000	-0.005105	PASS
N7B	15	20+20	DFT-PI2BPSK	M	Outer_Full	NV	-10	-5.000000	-0.006904	PASS
N7B	15	20+20	DFT-PI2BPSK	M	Outer_Full	NV	0	-7.900000	-0.009633	PASS
N7B	15	20+20	DFT-PI2BPSK	M	Outer_Full	NV	10	-5.900000	-0.008443	PASS
N7B	15	20+20	DFT-PI2BPSK	M	Outer_Full	NV	20	-5.200000	-0.006888	PASS
N7B	15	20+20	DFT-PI2BPSK	M	Outer_Full	NV	30	0.100000	0.000030	PASS
N7B	15	20+20	DFT-PI2BPSK	M	Outer_Full	NV	40	0.300000	0.000016	PASS
N7B	15	20+20	DFT-PI2BPSK	M	Outer_Full	NV	50	3.000000	0.001046	PASS
N7B	15	20+20	CP-QPSK	M	Outer_Full	NV	-30	-3.600000	-0.001467	PASS
N7B	15	20+20	CP-QPSK	M	Outer_Full	NV	-20	-5.400000	-0.002191	PASS
N7B	15	20+20	CP-QPSK	M	Outer_Full	NV	-10	-5.400000	-0.002303	PASS
N7B	15	20+20	CP-QPSK	M	Outer_Full	NV	0	-3.800000	-0.001624	PASS
N7B	15	20+20	CP-QPSK	M	Outer_Full	NV	10	-4.800000	-0.002033	PASS
N7B	15	20+20	CP-QPSK	M	Outer_Full	NV	20	-2.900000	-0.001169	PASS
N7B	15	20+20	CP-QPSK	M	Outer_Full	NV	30	-2.100000	-	PASS

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									0.001050	
N7B	15	20+20	CP-QPSK	M	Outer_Full	NV	40	-3.300000	-0.001486	PASS
N7B	15	20+20	CP-QPSK	M	Outer_Full	NV	50	-1.100000	-0.000502	PASS

---End of Attachment---

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