Appendix B.48

NR CA_n5B

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Effective (Isotropic) Radiated Power Output Data for SA ULCA

Test ResultAnt1

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
CA_n5B	15+15	15+5	DFT-BPSK	L+L	Inner_Full	16.99	15.33	38.45	PASS
CA_n5B	15+15	15+5	DFT-BPSK	L+L	Inner_1RB_Left	16.84	15.18	38.45	PASS
CA_n5B	15+15	15+5	DFT-BPSK	L+L	Inner_1RB_Right	16.87	15.21	38.45	PASS
CA_n5B	15+15	15+5	DFT-QPSK	L+L	Inner_Full	16.95	15.29	38.45	PASS
CA_n5B	15+15	15+5	DFT-QPSK	L+L	Inner_1RB_Left	16.96	15.3	38.45	PASS
CA_n5B	15+15	15+5	DFT-QPSK	L+L	Inner_1RB_Right	16.67	15.01	38.45	PASS
CA_n5B	15+15	15+5	DFT-16QAM	L+L	Inner_Full	16.92	15.26	38.45	PASS
CA_n5B	15+15	15+5	DFT-16QAM	L+L	Inner_1RB_Left	16.27	14.61	38.45	PASS
CA_n5B	15+15	15+5	DFT-16QAM	L+L	Inner_1RB_Right	16.62	14.96	38.45	PASS
CA_n5B	15+15	15+5	DFT-64QAM	L+L	Inner_Full	16.95	15.29	38.45	PASS
CA_n5B	15+15	15+5	DFT-64QAM	L+L	Inner_1RB_Left	17.05	15.39	38.45	PASS
CA_n5B	15+15	15+5	DFT-64QAM	L+L	Inner_1RB_Right	16.88	15.22	38.45	PASS
CA_n5B	15+15	15+5	DFT-256QAM	L+L	Inner_Full	17.01	15.35	38.45	PASS
CA_n5B	15+15	15+5	DFT-256QAM	L+L	Inner_1RB_Left	16.94	15.28	38.45	PASS
CA_n5B	15+15	15+5	DFT-256QAM	L+L	Inner_1RB_Right	16.62	14.96	38.45	PASS
CA_n5B	15+15	10+10	DFT-BPSK	L+L	Inner_Full	16.91	15.25	38.45	PASS
CA_n5B	15+15	10+10	DFT-BPSK	L+L	Inner_1RB_Left	16.86	15.2	38.45	PASS
CA_n5B	15+15	10+10	DFT-BPSK	L+L	Inner_1RB_Right	16.72	15.06	38.45	PASS
CA_n5B	15+15	10+10	DFT-QPSK	L+L	Inner_Full	16.97	15.31	38.45	PASS
CA_n5B	15+15	10+10	DFT-QPSK	L+L	Inner_1RB_Left	16.68	15.02	38.45	PASS
CA_n5B	15+15	10+10	DFT-QPSK	L+L	Inner_1RB_Right	16.77	15.11	38.45	PASS
CA_n5B	15+15	10+10	DFT-16QAM	L+L	Inner_Full	16.97	15.31	38.45	PASS
CA_n5B	15+15	10+10	DFT-16QAM	L+L	Inner_1RB_Left	16.27	14.61	38.45	PASS
CA_n5B	15+15	10+10	DFT-16QAM	L+L	Inner_1RB_Right	16.61	14.95	38.45	PASS
CA_n5B	15+15	10+10	DFT-64QAM	L+L	Inner_Full	16.93	15.27	38.45	PASS
CA_n5B	15+15	10+10	DFT-64QAM	L+L	Inner_1RB_Left	16.58	14.92	38.45	PASS
CA_n5B	15+15	10+10	DFT-64QAM	L+L	Inner_1RB_Right	16.62	14.96	38.45	PASS
CA_n5B	15+15	10+10	DFT-256QAM	L+L	Inner_Full	16.89	15.23	38.45	PASS
CA_n5B	15+15	10+10	DFT-256QAM	L+L	Inner_1RB_Left	16.72	15.06	38.45	PASS
CA_n5B	15+15	10+10	DFT-256QAM	L+L	Inner_1RB_Right	16.58	14.92	38.45	PASS

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CA_n5B	15+15	15+5	DFT-BPSK	M+M	Inner_Full	16.92	15.26	38.45	PASS
CA_n5B	15+15	15+5	DFT-BPSK	M+M	Inner_1RB_Left	16.84	15.18	38.45	PASS
CA_n5B	15+15	15+5	DFT-BPSK	M+M	Inner_1RB_Right	16.62	14.96	38.45	PASS
CA_n5B	15+15	15+5	DFT-QPSK	M+M	Inner_Full	16.67	15.01	38.45	PASS
CA_n5B	15+15	15+5	DFT-QPSK	M+M	Inner_1RB_Left	16.88	15.22	38.45	PASS
CA_n5B	15+15	15+5	DFT-QPSK	M+M	Inner_1RB_Right	16.88	15.22	38.45	PASS
CA_n5B	15+15	15+5	DFT-16QAM	M+M	Inner_Full	16.99	15.33	38.45	PASS
CA_n5B	15+15	15+5	DFT-16QAM	M+M	Inner_1RB_Left	16.83	15.17	38.45	PASS
CA_n5B	15+15	15+5	DFT-16QAM	M+M	Inner_1RB_Right	16.47	14.81	38.45	PASS
CA_n5B	15+15	15+5	DFT-64QAM	M+M	Inner_Full	16.78	15.12	38.45	PASS
CA_n5B	15+15	15+5	DFT-64QAM	M+M	Inner_1RB_Left	16.68	15.02	38.45	PASS
CA_n5B	15+15	15+5	DFT-64QAM	M+M	Inner_1RB_Right	16.52	14.86	38.45	PASS
CA_n5B	15+15	15+5	DFT-256QAM	M+M	Inner_Full	16.98	15.32	38.45	PASS
CA_n5B	15+15	15+5	DFT-256QAM	M+M	Inner_1RB_Left	16.81	15.15	38.45	PASS
CA_n5B	15+15	15+5	DFT-256QAM	M+M	Inner_1RB_Right	16.42	14.76	38.45	PASS
CA_n5B	15+15	15+5	DFT-BPSK	H+H	Inner_Full	16.46	14.8	38.45	PASS
CA_n5B	15+15	15+5	DFT-BPSK	H+H	Inner_1RB_Left	16.88	15.22	38.45	PASS
CA_n5B	15+15	15+5	DFT-BPSK	H+H	Inner_1RB_Right	16.72	15.06	38.45	PASS
CA_n5B	15+15	15+5	DFT-QPSK	H+H	Inner_Full	16.91	15.25	38.45	PASS
CA_n5B	15+15	15+5	DFT-QPSK	H+H	Inner_1RB_Left	16.94	15.28	38.45	PASS
CA_n5B	15+15	15+5	DFT-QPSK	H+H	Inner_1RB_Right	16.69	15.03	38.45	PASS
CA_n5B	15+15	15+5	DFT-16QAM	H+H	Inner_Full	16.88	15.22	38.45	PASS
CA_n5B	15+15	15+5	DFT-16QAM	H+H	Inner_1RB_Left	16.72	15.06	38.45	PASS
CA_n5B	15+15	15+5	DFT-16QAM	H+H	Inner_1RB_Right	16.67	15.01	38.45	PASS
CA_n5B	15+15	15+5	DFT-64QAM	H+H	Inner_Full	16.87	15.21	38.45	PASS
CA_n5B	15+15	15+5	DFT-64QAM	H+H	Inner_1RB_Left	16.8	15.14	38.45	PASS
CA_n5B	15+15	15+5	DFT-64QAM	H+H	Inner_1RB_Right	16.88	15.22	38.45	PASS
CA_n5B	15+15	15+5	DFT-256QAM	H+H	Inner_Full	16.86	15.2	38.45	PASS
CA_n5B	15+15	15+5	DFT-256QAM	H+H	Inner_1RB_Left	16.65	14.99	38.45	PASS
CA_n5B	15+15	15+5	DFT-256QAM	H+H	Inner_1RB_Right	16.54	14.88	38.45	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_n5B	15+15	15+5	DFT-BPSK	M+M	Outer_Full	18.954	20.156	PASS
CA_n5B	15+15	15+5	DFT-QPSK	M+M	Outer_Full	18.961	20.117	PASS
CA_n5B	15+15	15+5	DFT-16QAM	M+M	Outer_Full	18.958	20.156	PASS
CA_n5B	15+15	15+5	DFT-64QAM	M+M	Outer_Full	18.969	20.156	PASS
CA_n5B	15+15	15+5	DFT-256QAM	M+M	Outer_Full	18.959	20.156	PASS
CA_n5B	15+15	15+5	CP-QPSK	M+M	Outer_Full	18.959	20.156	PASS
CA_n5B	15+15	15+5	CP-16QAM	M+M	Outer_Full	18.953	20.156	PASS
CA_n5B	15+15	15+5	CP-64QAM	M+M	Outer_Full	18.969	20.156	PASS
CA_n5B	15+15	15+5	CP-256QAM	M+M	Outer_Full	18.971	20.156	PASS

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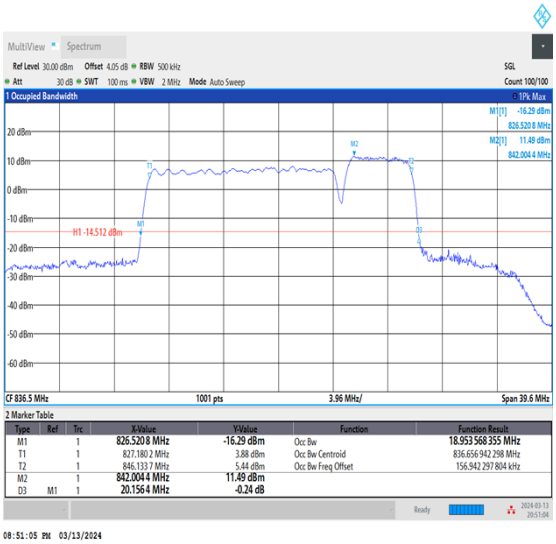
Test Graphs



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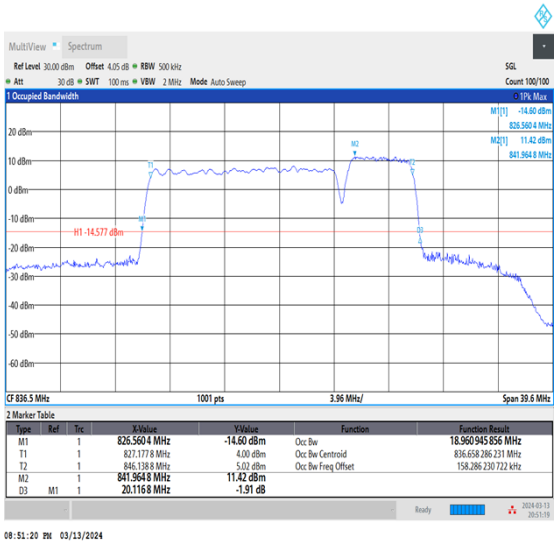

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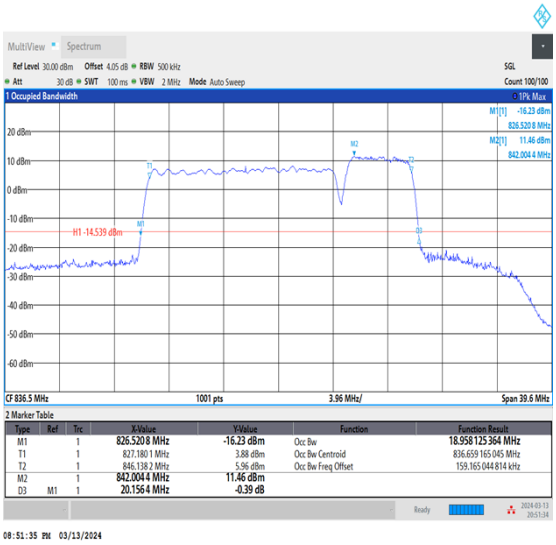

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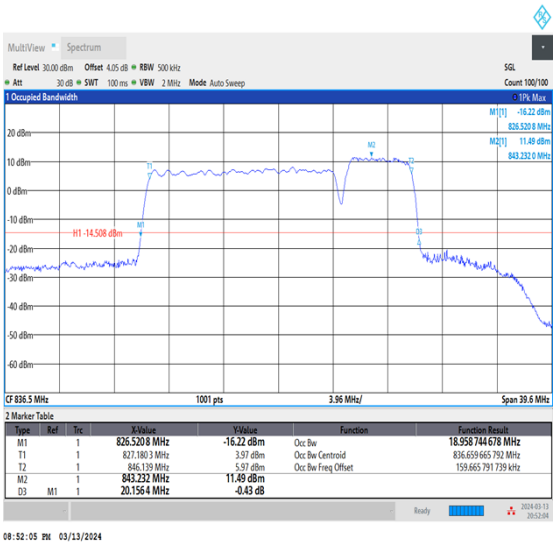

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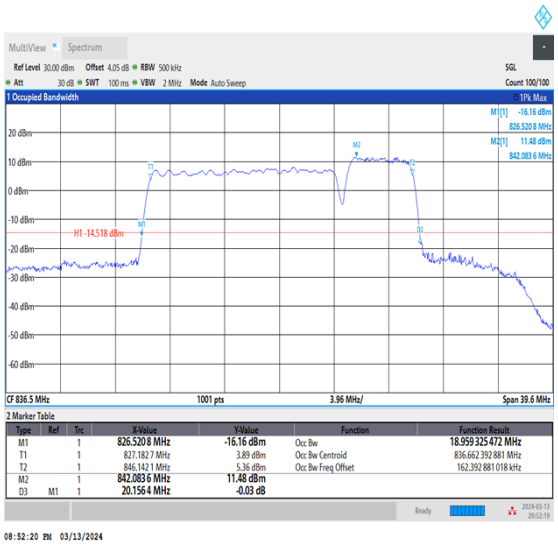

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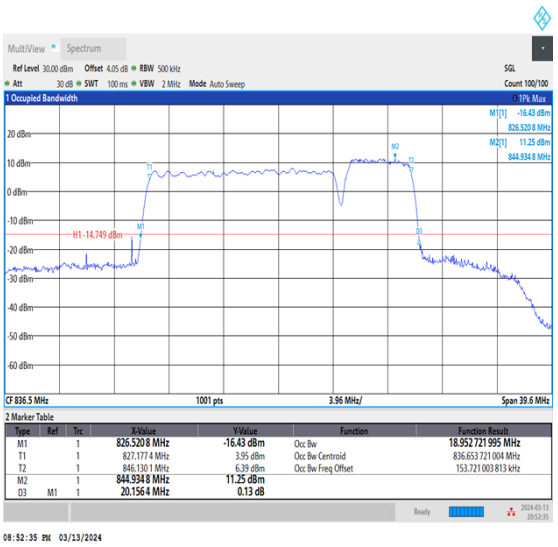

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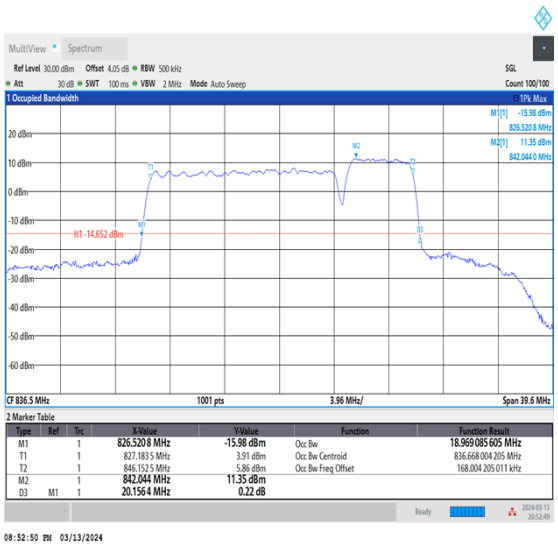

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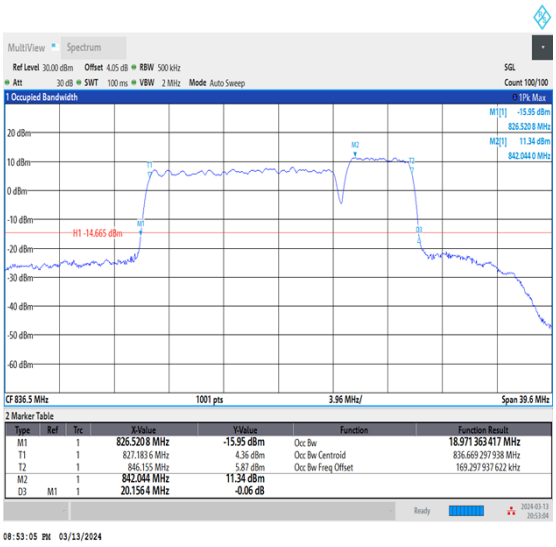

NTNV_CA_n5B_PC3_15+15_15+5_M+M_Ant1_TID9_1_#1

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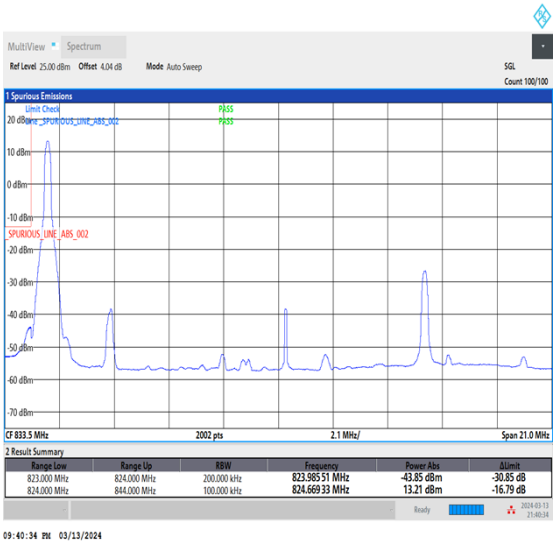
Band Edge for SA ULCA

Test Graphs

NTNV_CA_n5B_PC3_15+15_15+5_L+L_TID1_1_#1

NTNV_CA_n5B_PC3_15+15_15+5_L+L_TID3_1_#1



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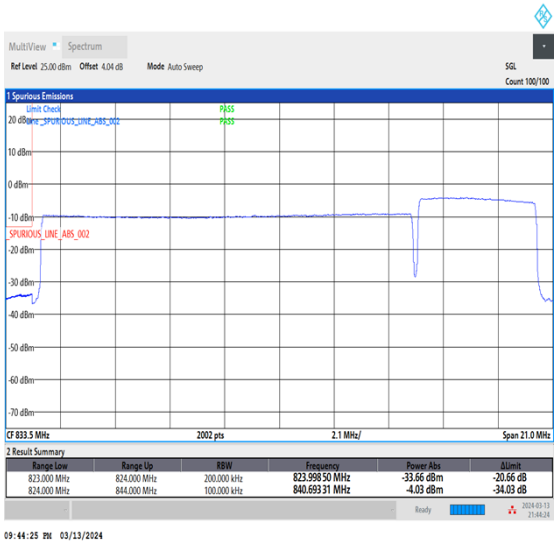

NTNV_CA_n5B_PC3_15+15_15+5_L+L_TID6_1_#1

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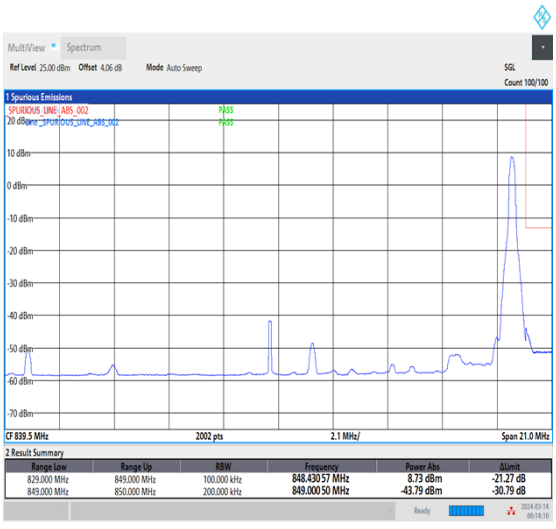

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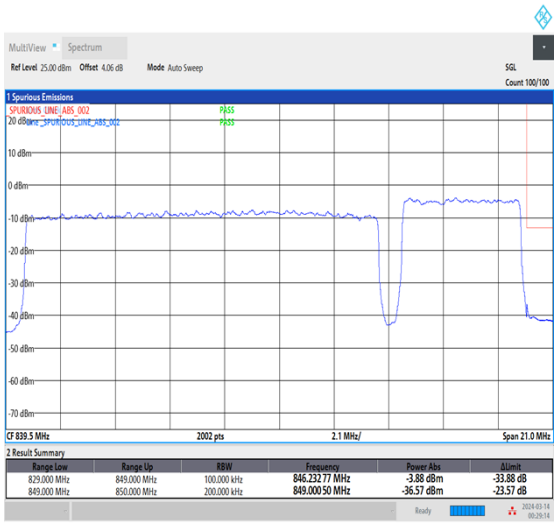

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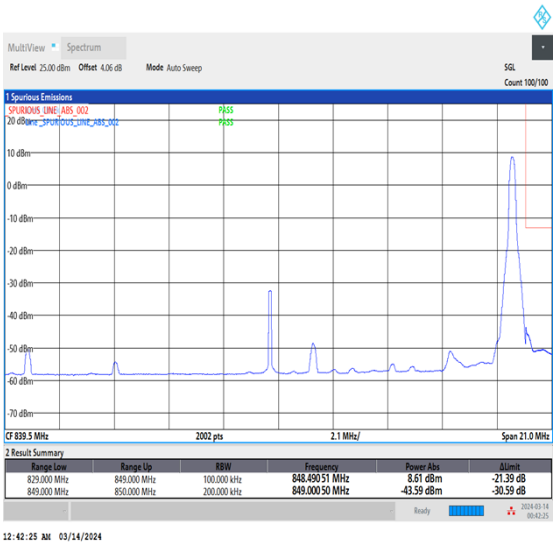

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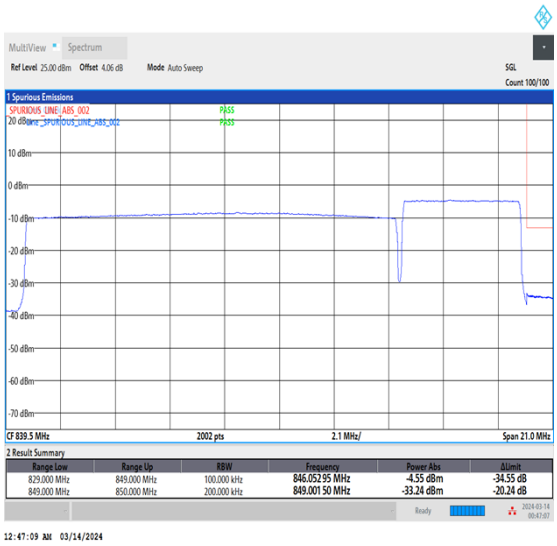

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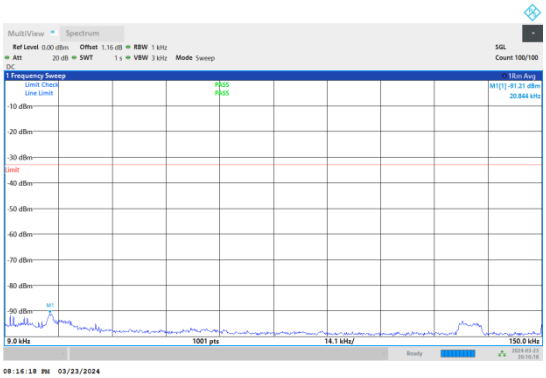
Conducted Spurious Emission for SA ULCA

Test Graphs



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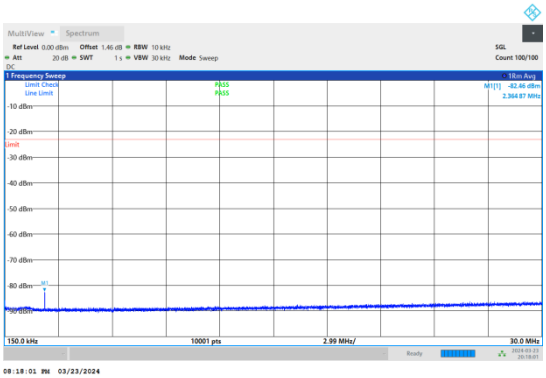

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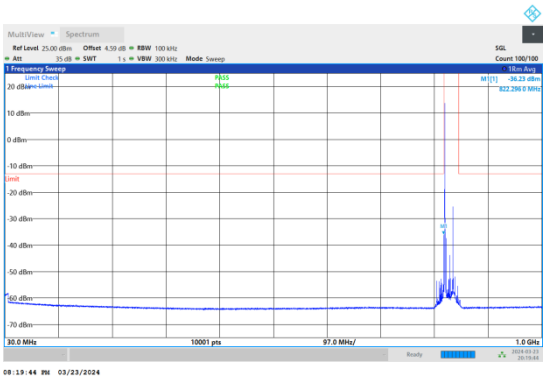

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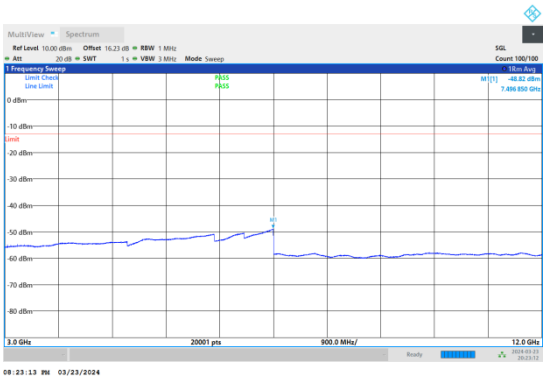

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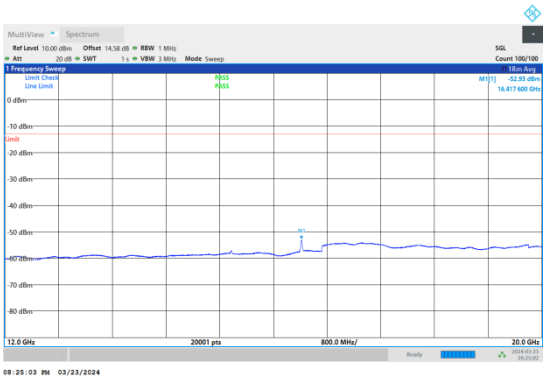

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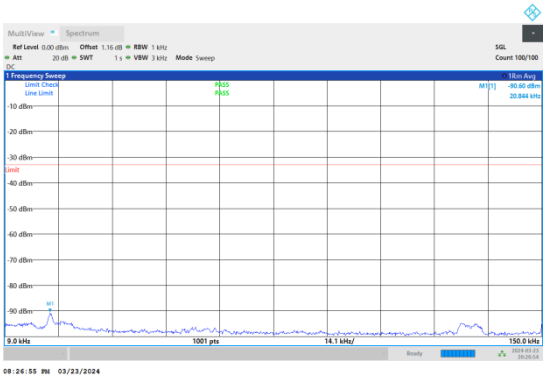

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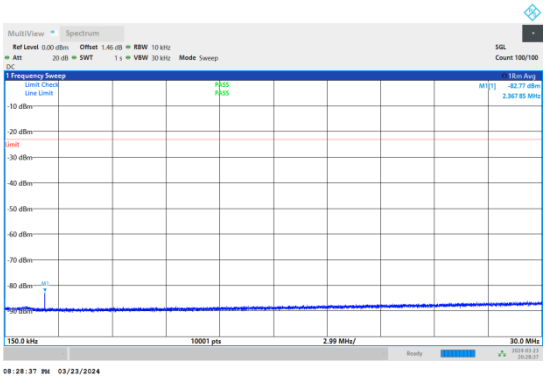

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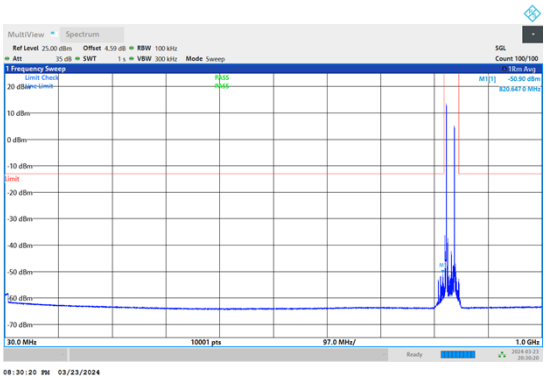

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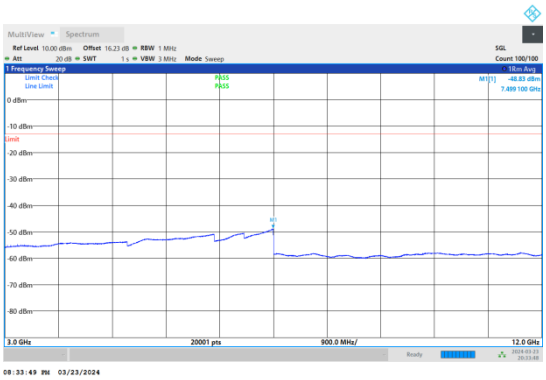

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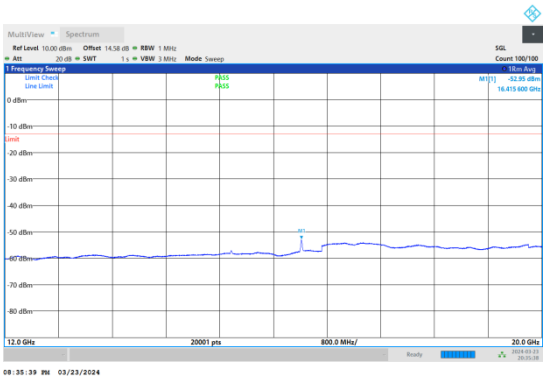

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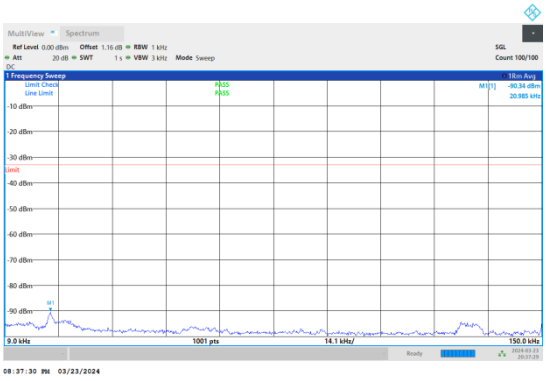

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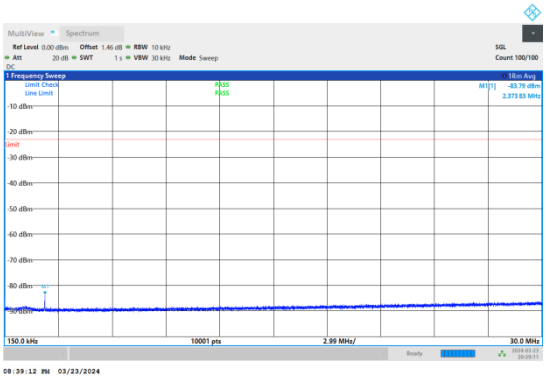

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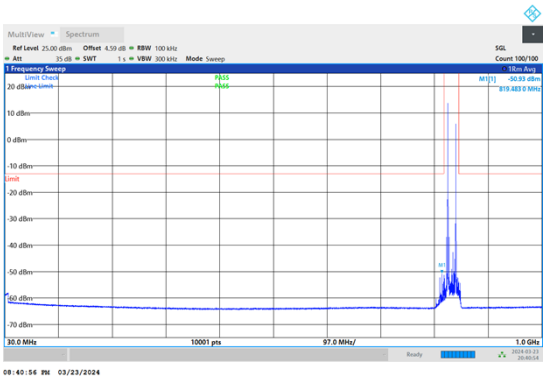

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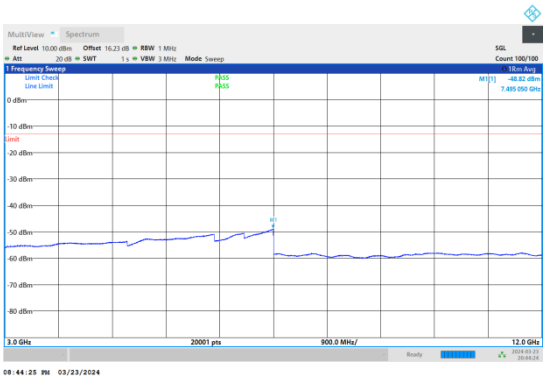	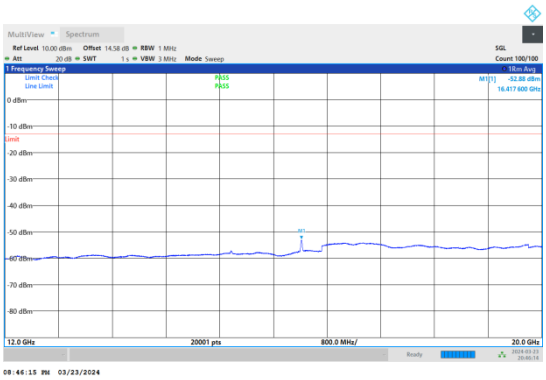
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Field Strength of Spurious Radiation

Test Band = NR CA n5B_ 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	1212.4444	46.87	-50.22	24.68	-73.93	-13.00	60.93	Horizontal
2	1754.6667	46.19	-49.79	25.72	-73.14	-13.00	60.14	Horizontal
3	2492.8889	45.52	-48.94	27.29	-71.39	-13.00	58.39	Horizontal
4	3781.3333	44.44	-48.46	29.09	-70.19	-13.00	57.19	Horizontal
5	5996.4444	44.09	-47.58	32.80	-65.95	-13.00	52.95	Horizontal
6	8257.7778	41.40	-44.55	36.56	-61.85	-13.00	48.85	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1288	46.96	-50.14	24.52	-73.92	-13.00	60.92	Vertical
2	1768	46.84	-49.80	25.77	-72.45	-13.00	59.45	Vertical
3	2546.6667	45.46	-49.03	27.41	-71.41	-13.00	58.41	Vertical
4	3678.2222	45.04	-48.65	28.95	-69.92	-13.00	56.92	Vertical
5	4326.2222	44.34	-48.03	29.99	-68.97	-13.00	55.97	Vertical
6	7258.6667	43.02	-46.13	36.22	-62.15	-13.00	49.15	Vertical

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Test Band = NR CA n5B_ 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	1286.2222	50.39	-50.14	24.53	-70.49	-13.00	57.49	Horizontal
2	1964	46.47	-49.70	26.56	-71.93	-13.00	58.93	Horizontal
3	2658.6667	45.65	-49.07	27.68	-71.00	-13.00	58.00	Horizontal
4	3454.6667	45.00	-48.55	28.68	-70.13	-13.00	57.13	Horizontal
5	4663.1111	44.32	-48.07	30.69	-68.31	-13.00	55.31	Horizontal
6	7319.1111	43.34	-46.07	36.37	-61.62	-13.00	48.62	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1361.3333	49.41	-50.06	24.38	-71.53	-13.00	58.53	Vertical
2	2223.1111	46.10	-49.41	26.97	-71.60	-13.00	58.60	Vertical
3	3239.1111	45.20	-48.62	28.60	-70.09	-13.00	57.09	Vertical
4	4133.3333	44.36	-48.29	29.64	-69.55	-13.00	56.55	Vertical
5	5495.1111	44.18	-47.39	32.69	-65.78	-13.00	52.78	Vertical
6	7665.3333	42.35	-45.07	36.60	-61.38	-13.00	48.38	Vertical

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Test Band = NR CA n5B_ 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	1281.7778	50.43	-50.15	24.54	-70.44	-13.00	57.44	Horizontal
2	2005.3333	50.37	-49.66	26.71	-67.84	-13.00	54.84	Horizontal
3	2655.1111	45.51	-49.08	27.67	-71.15	-13.00	58.15	Horizontal
4	4414.2222	44.63	-48.07	30.15	-68.55	-13.00	55.55	Horizontal
5	6577.3333	43.15	-47.12	34.67	-64.56	-13.00	51.56	Horizontal
6	8330.2222	41.44	-44.54	36.66	-61.70	-13.00	48.70	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1176	46.95	-50.16	24.71	-73.76	-13.00	60.76	Vertical
2	1465.3333	46.83	-49.89	24.56	-73.76	-13.00	60.76	Vertical
3	2321.7778	45.54	-49.21	27.09	-71.84	-13.00	58.84	Vertical
4	3594.2222	44.65	-48.48	28.83	-70.26	-13.00	57.26	Vertical
5	6144.8889	43.91	-47.23	33.29	-65.28	-13.00	52.28	Vertical
6	7818.2222	42.55	-45.14	36.42	-61.43	-13.00	48.43	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)	Limit	Verdict
N5B	15	15+5	DFT-PI2BPSK	M	Outer_Full	VH	NT	-4.800000	-0.005951	±2.5	PASS
N5B	15	15+5	DFT-PI2BPSK	M	Outer_Full	VN	NT	-3.700000	-0.005122	±2.5	PASS
N5B	15	15+5	DFT-PI2BPSK	M	Outer_Full	VL	NT	-5.600000	-0.006922	±2.5	PASS
N5B	15	15+5	CP-QPSK	M	Outer_Full	VH	NT	-7.500000	-0.009671	±2.5	PASS
N5B	15	15+5	CP-QPSK	M	Outer_Full	VN	NT	-6.900000	-0.008465	±2.5	PASS
N5B	15	15+5	CP-QPSK	M	Outer_Full	VL	NT	-5.500000	-0.006911	±2.5	PASS

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Frequency Error VS. Temperature

Temperature											
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Limit	Verdict
N5B	15	15+5	DFT-PI2BPSK	M	Outer_Full	NV	-30	-5.900000	-0.007264	±2.5	PASS
N5B	15	15+5	DFT-PI2BPSK	M	Outer_Full	NV	-20	-3.900000	-0.005233	±2.5	PASS
N5B	15	15+5	DFT-PI2BPSK	M	Outer_Full	NV	-10	-3.300000	-0.004527	±2.5	PASS
N5B	15	15+5	DFT-PI2BPSK	M	Outer_Full	NV	0	-4.900000	-0.006191	±2.5	PASS
N5B	15	15+5	DFT-PI2BPSK	M	Outer_Full	NV	10	-3.500000	-0.004527	±2.5	PASS
N5B	15	15+5	DFT-PI2BPSK	M	Outer_Full	NV	20	-4.400000	-0.005950	±2.5	PASS
N5B	15	15+5	DFT-PI2BPSK	M	Outer_Full	NV	30	-4.300000	-0.005839	±2.5	PASS
N5B	15	15+5	DFT-PI2BPSK	M	Outer_Full	NV	40	-4.800000	-0.006192	±2.5	PASS
N5B	15	15+5	DFT-PI2BPSK	M	Outer_Full	NV	50	-4.500000	-0.005841	±2.5	PASS
N5B	15	15+5	CP-QPSK	M	Outer_Full	NV	-30	-6.800000	-0.008476	±2.5	PASS
N5B	15	15+5	CP-QPSK	M	Outer_Full	NV	-20	-6.500000	-0.008112	±2.5	PASS
N5B	15	15+5	CP-QPSK	M	Outer_Full	NV	-10	-6.200000	-0.008108	±2.5	PASS
N5B	15	15+5	CP-QPSK	M	Outer_Full	NV	0	-5.000000	-0.006073	±2.5	PASS
N5B	15	15+5	CP-QPSK	M	Outer_Full	NV	10	-4.500000	-0.005475	±2.5	PASS
N5B	15	15+5	CP-QPSK	M	Outer_Full	NV	20	-	-	±2.5	PASS

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								5.200000	0.006561		
N5B	15	15+5	CP-QPSK	M	Outer_Full	NV	30	-5.600000	-0.007381	±2.5	PASS
N5B	15	15+5	CP-QPSK	M	Outer_Full	NV	40	-6.400000	-0.008352	±2.5	PASS
N5B	15	15+5	CP-QPSK	M	Outer_Full	NV	50	-7.800000	-0.009672	±2.5	PASS

---End of Attachment---

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