



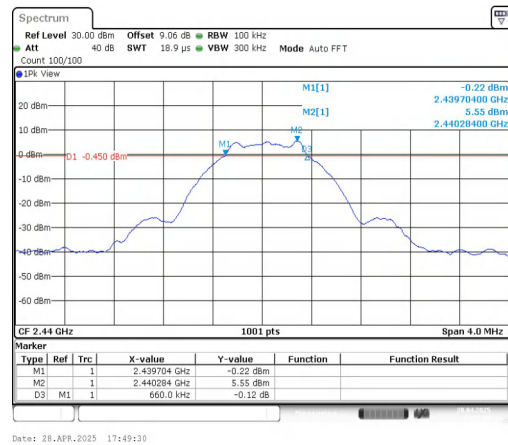
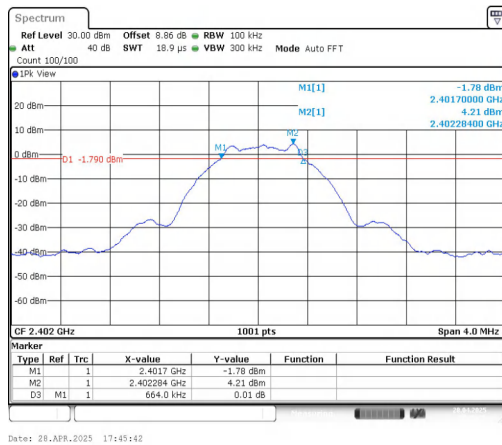
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.66	2401.70	2402.36	0.5	PASS
BLE_1M	Ant1	2440	0.66	2439.70	2440.36	0.5	PASS
BLE_1M	Ant1	2480	0.66	2479.70	2480.36	0.5	PASS
BLE_2M	Ant1	2402	1.15	2401.46	2402.61	0.5	PASS
BLE_2M	Ant1	2440	1.15	2439.46	2440.61	0.5	PASS
BLE_2M	Ant1	2480	1.16	2479.46	2480.62	0.5	PASS

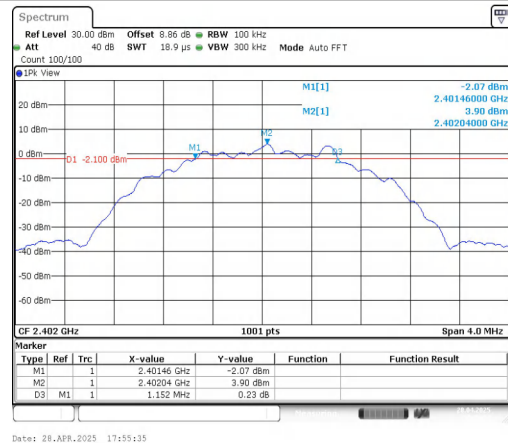
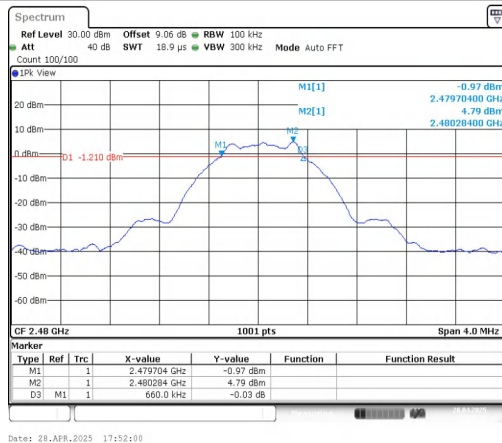


Test Graphs



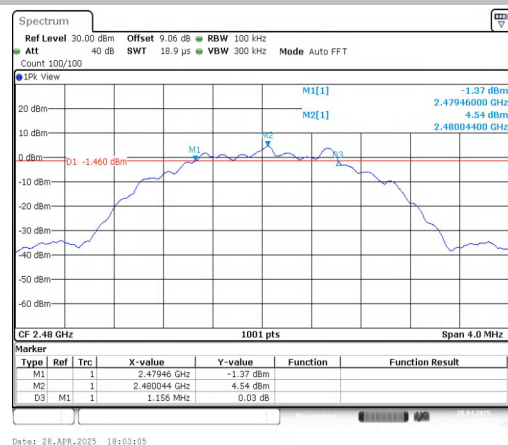
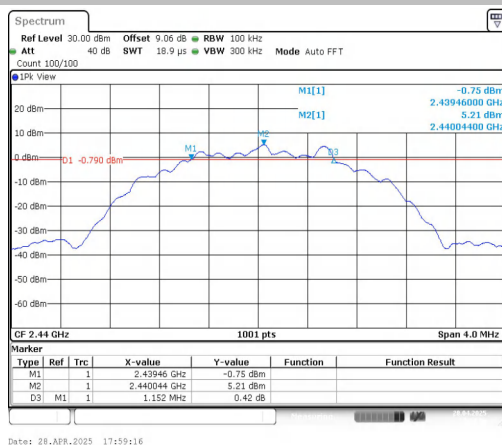
BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS

BLE_2M-Ant1-2480-PASS



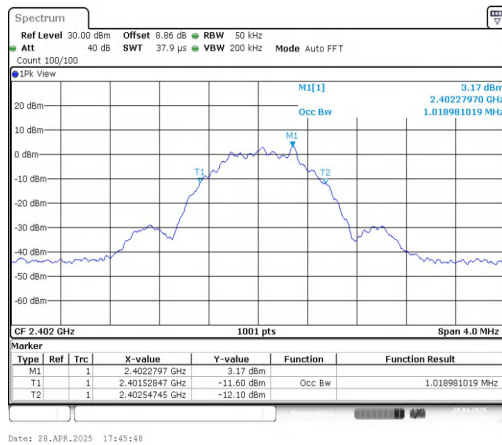
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.019	2401.5285	2402.5475	---	---
BLE_1M	Ant1	2440	1.019	2439.5285	2440.5475	---	---
BLE_1M	Ant1	2480	1.019	2479.5285	2480.5475	---	---
BLE_2M	Ant1	2402	1.998	2401.0490	2403.0470	---	---
BLE_2M	Ant1	2440	2.002	2439.0490	2441.0509	---	---
BLE_2M	Ant1	2480	2.006	2479.0450	2481.0509	---	---

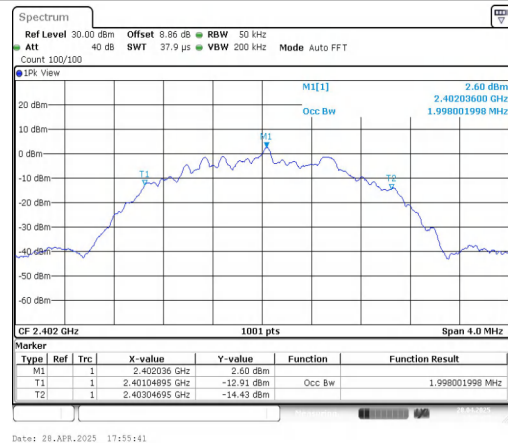
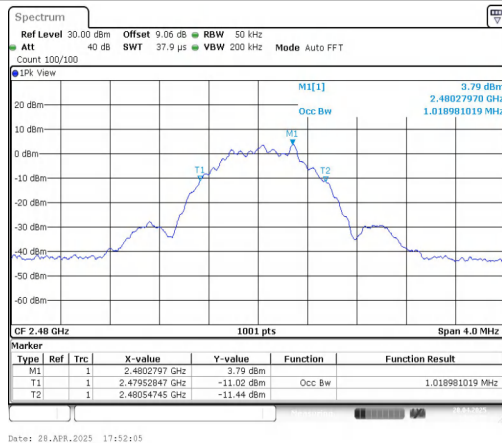


Test Graphs



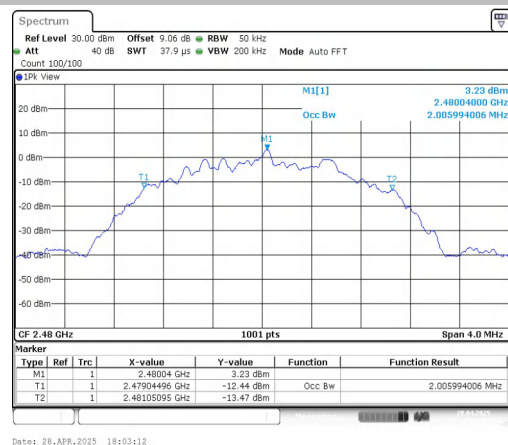
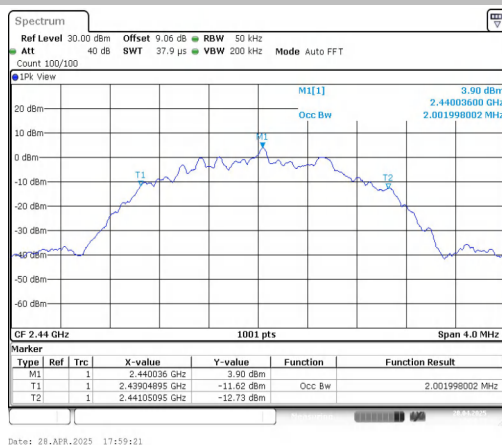
BLE_1M-Ant1-2402

BLE_1M-Ant1-2440



BLE_1M-Ant1-2480

BLE_2M-Ant1-2402



BLE_2M-Ant1-2440

BLE_2M-Ant1-2480



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Peak Power [dBm]	Peak Power Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
BLE_1M	Ant1	2402	4.73	≤30.00	-1.58	3.15	--	PASS
BLE_1M	Ant1	2440	6.04	≤30.00	-1.58	4.46	--	PASS
BLE_1M	Ant1	2480	5.31	≤30.00	-1.58	3.73	--	PASS
BLE_2M	Ant1	2402	4.78	≤30.00	-1.58	3.20	--	PASS
BLE_2M	Ant1	2440	6.07	≤30.00	-1.58	4.49	--	PASS
BLE_2M	Ant1	2480	5.38	≤30.00	-1.58	3.80	--	PASS

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Reading Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	AV Power [dBm]	AV Power Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
BLE_1M	Ant1	2402	3.10	85.60	0.68	3.78	≤30.00	-1.58	2.20	--	PASS
BLE_1M	Ant1	2440	4.11	85.60	0.68	4.79	≤30.00	-1.58	3.21	--	PASS
BLE_1M	Ant1	2480	2.99	85.20	0.70	3.69	≤30.00	-1.58	2.11	--	PASS
BLE_2M	Ant1	2402	1.40	57.45	2.41	3.81	≤30.00	-1.58	2.23	--	PASS
BLE_2M	Ant1	2440	2.39	57.45	2.41	4.80	≤30.00	-1.58	3.22	--	PASS
BLE_2M	Ant1	2480	1.32	57.45	2.41	3.73	≤30.00	-1.58	2.15	--	PASS

$$\text{AV Power [dBm]} = \text{Reading power} + \text{DC Factor}$$



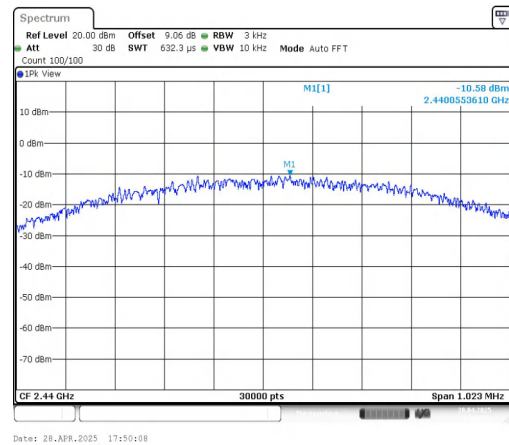
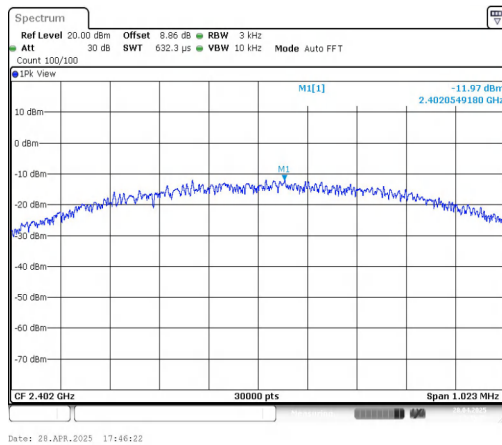
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.97	≤8.00	PASS
BLE_1M	Ant1	2440	-10.58	≤8.00	PASS
BLE_1M	Ant1	2480	-11.37	≤8.00	PASS
BLE_2M	Ant1	2402	-14.54	≤8.00	PASS
BLE_2M	Ant1	2440	-13.09	≤8.00	PASS
BLE_2M	Ant1	2480	-13.96	≤8.00	PASS

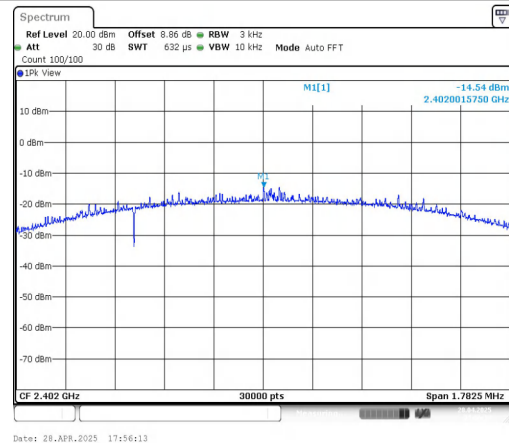
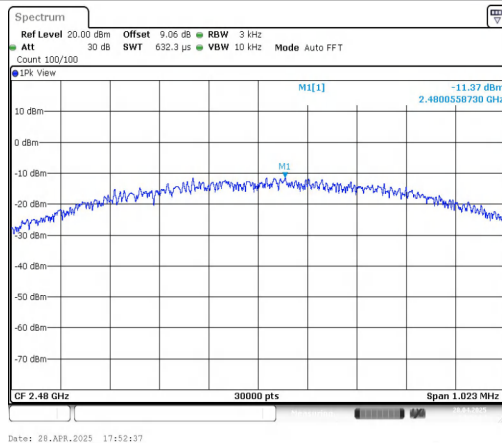


Test Graphs



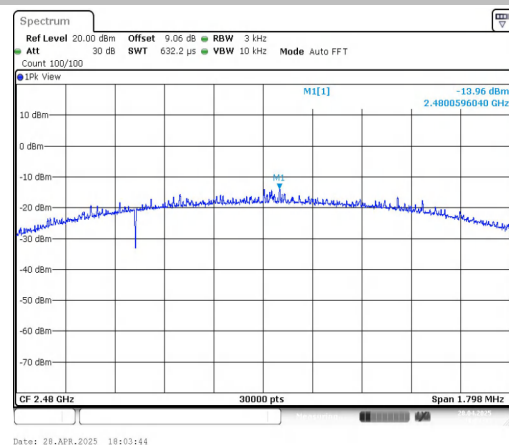
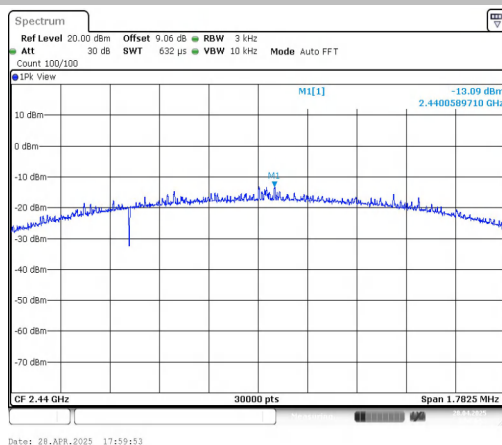
BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS

BLE_2M-Ant1-2480-PASS



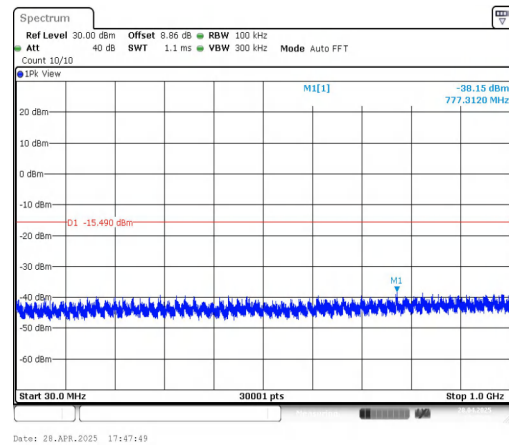
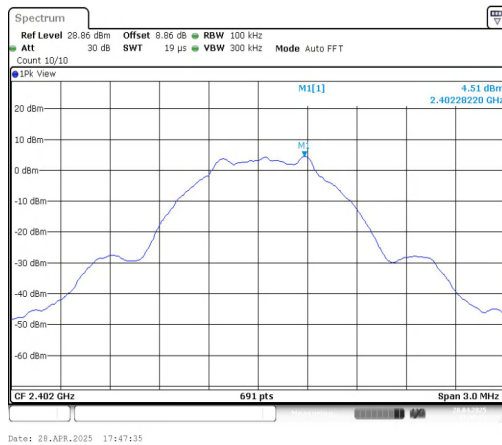
Appendix E: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	Freq Range [Mhz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	4.51	4.51	---	PASS
BLE_1M	Ant1	2402	30~1000	4.51	-38.15	≤-15.49	PASS
BLE_1M	Ant1	2402	1000~26500	4.51	-27.15	≤-15.49	PASS
BLE_1M	Ant1	2440	0~Reference	5.81	5.81	---	PASS
BLE_1M	Ant1	2440	30~1000	5.81	-38.01	≤-14.19	PASS
BLE_1M	Ant1	2440	1000~26500	5.81	-27.02	≤-14.19	PASS
BLE_1M	Ant1	2480	0~Reference	5.03	5.03	---	PASS
BLE_1M	Ant1	2480	30~1000	5.03	-37.84	≤-14.97	PASS
BLE_1M	Ant1	2480	1000~26500	5.03	-27.16	≤-14.97	PASS
BLE_2M	Ant1	2402	0~Reference	4.23	4.23	---	PASS
BLE_2M	Ant1	2402	30~1000	4.23	-38.51	≤-15.77	PASS
BLE_2M	Ant1	2402	1000~26500	4.23	-27.38	≤-15.77	PASS
BLE_2M	Ant1	2440	0~Reference	5.51	5.51	---	PASS
BLE_2M	Ant1	2440	30~1000	5.51	-37.47	≤-14.49	PASS
BLE_2M	Ant1	2440	1000~26500	5.51	-27.15	≤-14.49	PASS
BLE_2M	Ant1	2480	0~Reference	4.76	4.76	---	PASS
BLE_2M	Ant1	2480	30~1000	4.76	-38.18	≤-15.24	PASS
BLE_2M	Ant1	2480	1000~26500	4.76	-26.44	≤-15.24	PASS

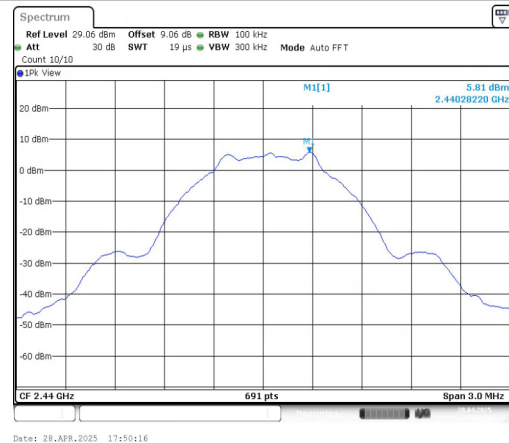
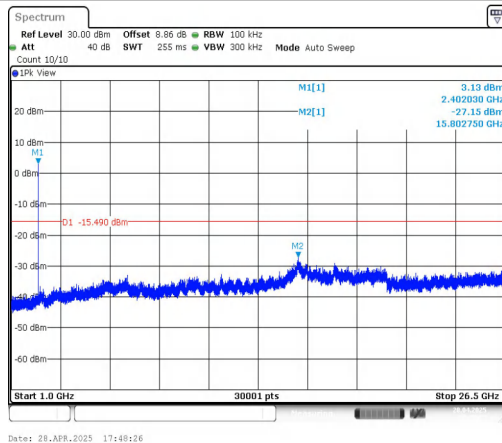


Test Graphs



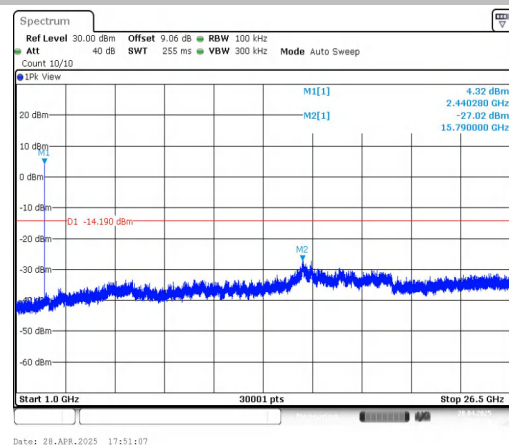
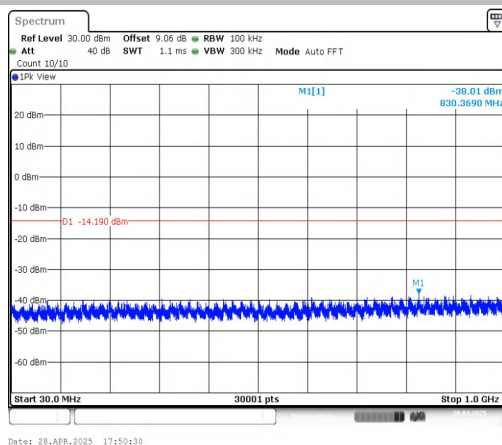
BLE_1M-Ant1-2402-0~Reference-PASS

BLE_1M-Ant1-2402-30~1000-PASS



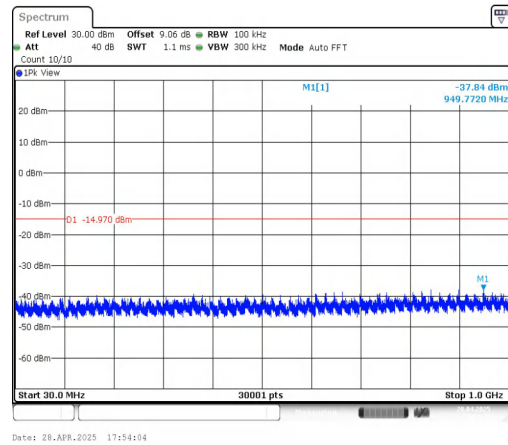
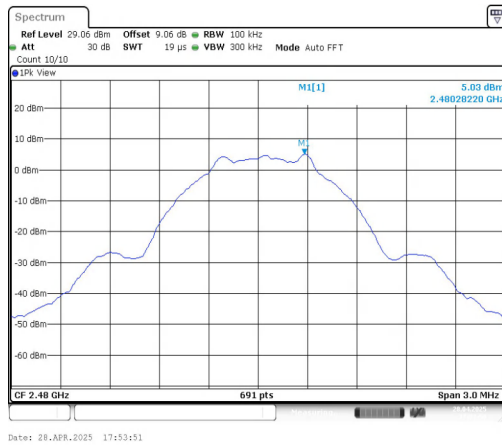
BLE_1M-Ant1-2402-1000~26500-PASS

BLE_1M-Ant1-2440-0~Reference-PASS



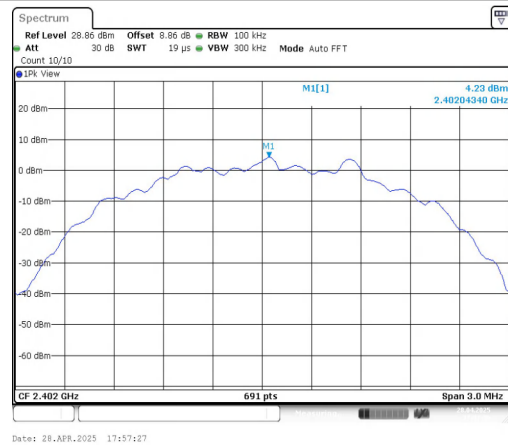
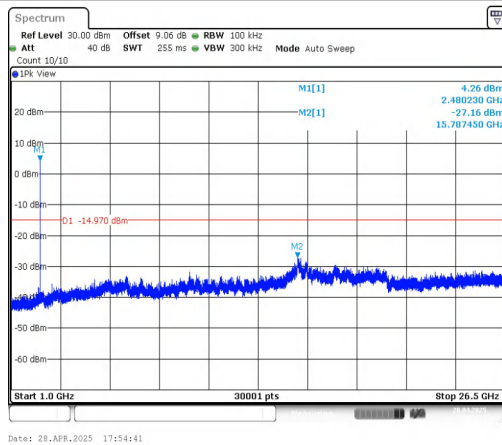
BLE_1M-Ant1-2440-30~1000-PASS

BLE_1M-Ant1-2440-1000~26500-PASS



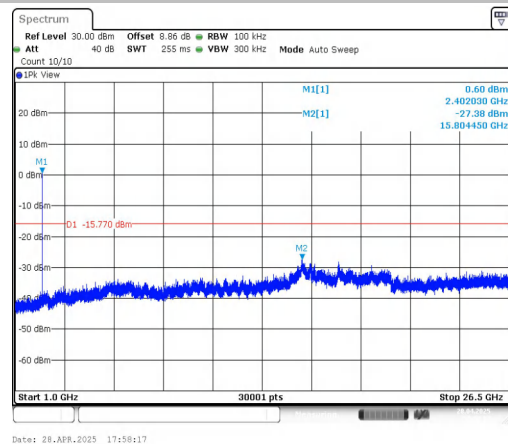
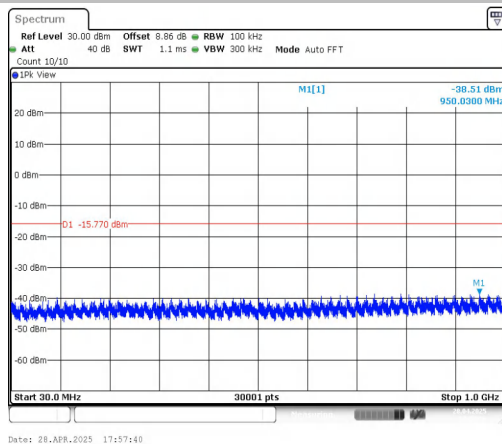
BLE_1M-Ant1-2480-0~Reference-PASS

BLE_1M-Ant1-2480-30~1000-PASS



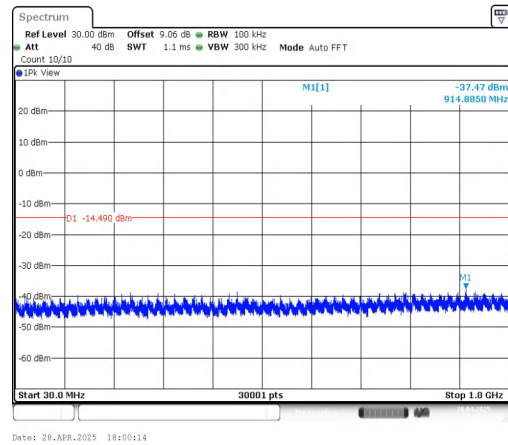
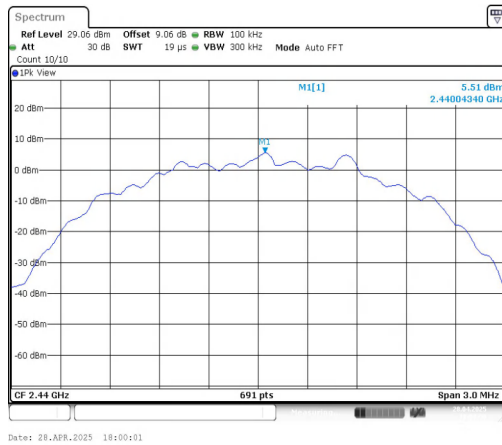
BLE_1M-Ant1-2480-1000~26500-PASS

BLE_2M-Ant1-2402-0~Reference-PASS



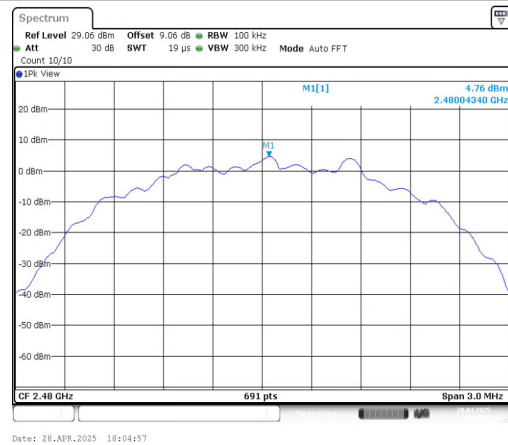
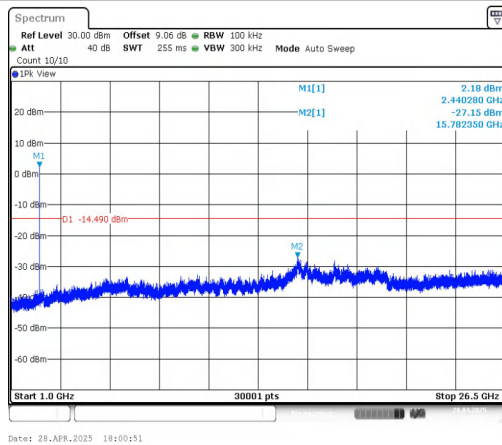
BLE_2M-Ant1-2402-30~1000-PASS

BLE_2M-Ant1-2402-1000~26500-PASS



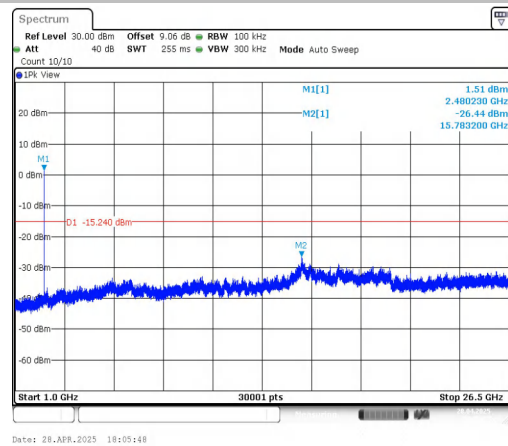
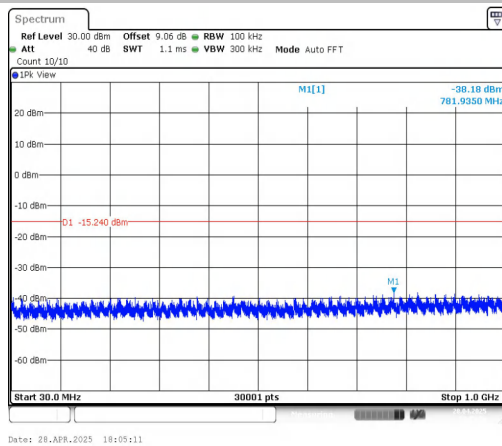
BLE_2M-Ant1-2440-0~Reference-PASS

BLE_2M-Ant1-2440-30~1000-PASS



BLE_2M-Ant1-2440-1000~26500-PASS

BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS

BLE_2M-Ant1-2480-1000~26500-PASS



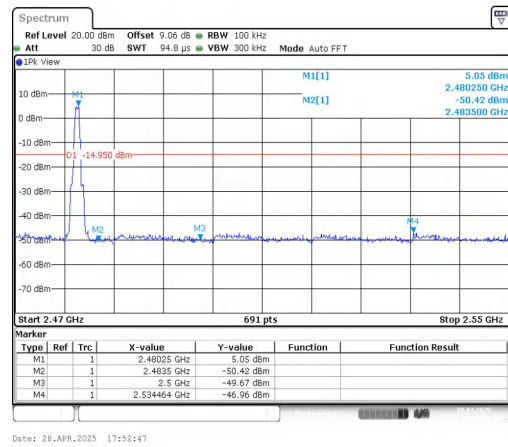
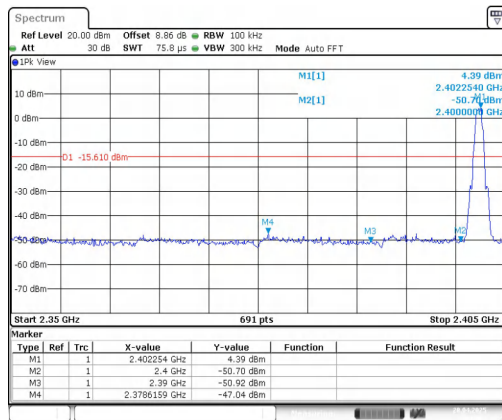
Appendix F: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	4.39	-47.04	≤-15.61	PASS
BLE_1M	Ant1	High	2480	5.05	-46.96	≤-14.95	PASS
BLE_2M	Ant1	Low	2402	4.15	-43.7	≤-15.85	PASS
BLE_2M	Ant1	High	2480	4.79	-46.82	≤-15.21	PASS

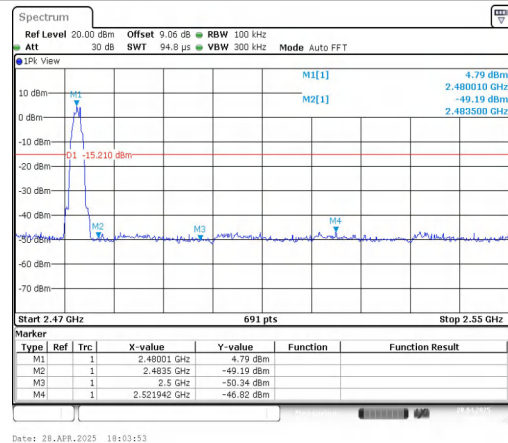
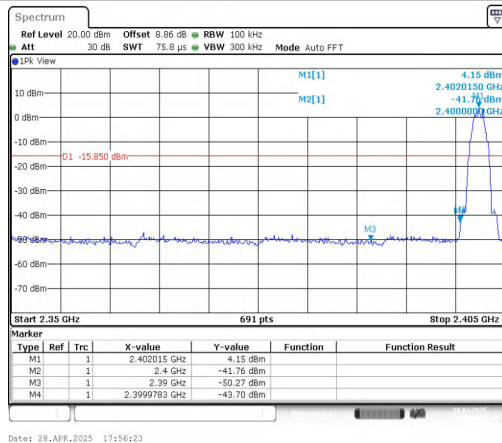


Test Graphs



BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

BLE_2M-Ant1-2480-PASS



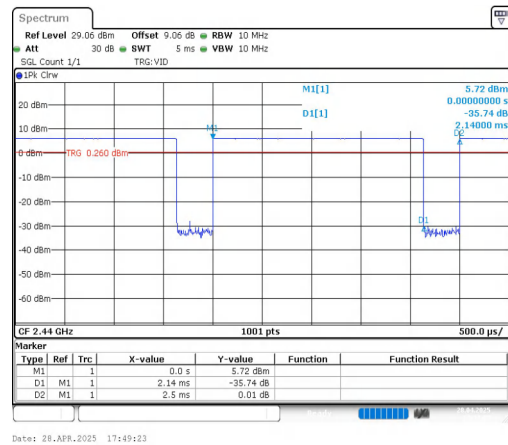
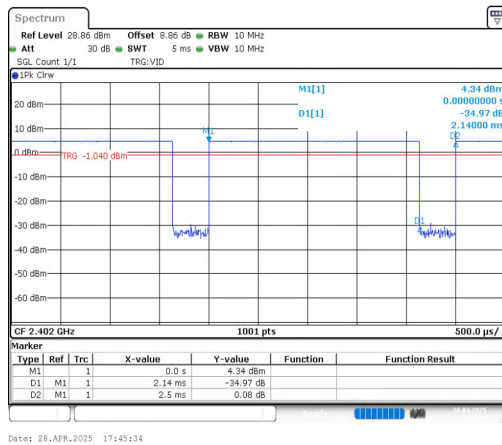
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
BLE_1M	Ant1	2402	2.14	2.50	85.60
BLE_1M	Ant1	2440	2.14	2.50	85.60
BLE_1M	Ant1	2480	2.13	2.50	85.20
BLE_2M	Ant1	2402	1.08	1.88	57.45
BLE_2M	Ant1	2440	1.08	1.88	57.45
BLE_2M	Ant1	2480	1.08	1.88	57.45

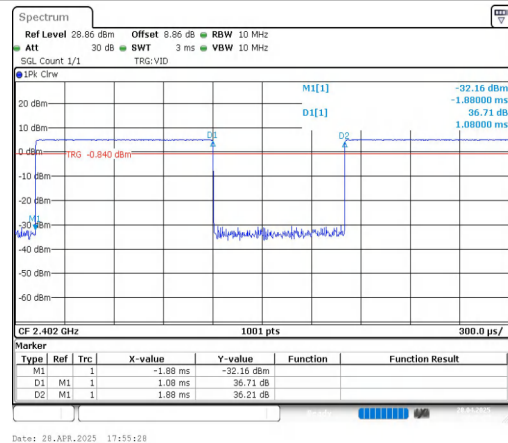
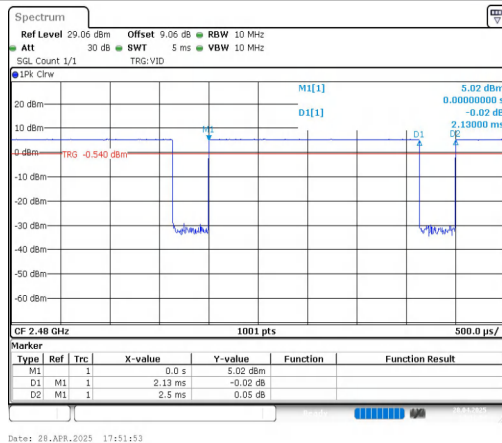


Test Graphs



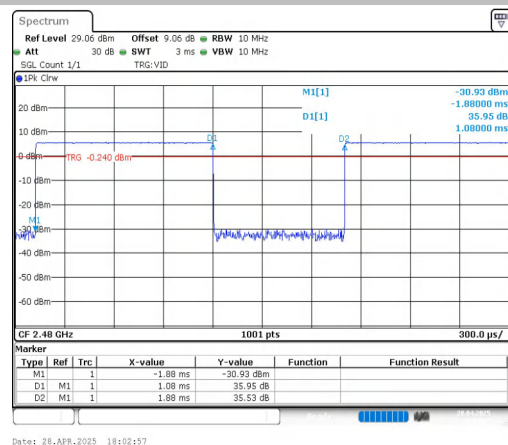
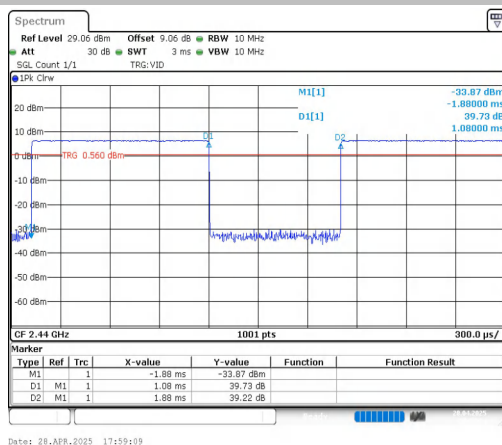
NTNV-BLE_1M-Ant1-2402

NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480

NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440

NTNV-BLE_2M-Ant1-2480

-----END-----