



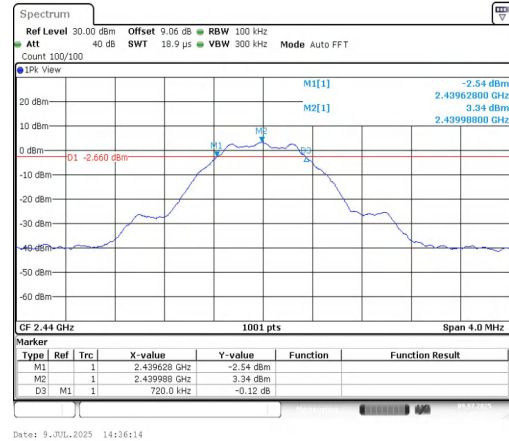
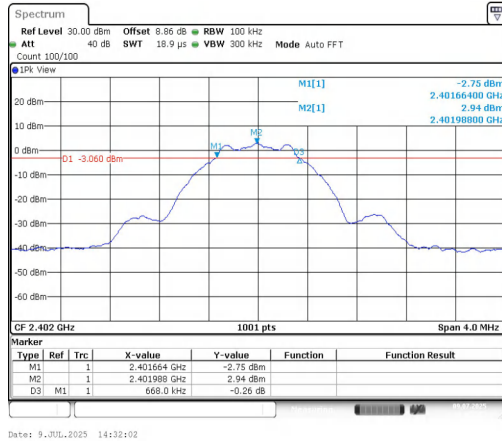
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.67	2401.66	2402.33	0.5	PASS
BLE_1M	Ant1	2440	0.72	2439.63	2440.35	0.5	PASS
BLE_1M	Ant1	2480	0.70	2479.63	2480.33	0.5	PASS
BLE_2M	Ant1	2402	1.07	2401.44	2402.51	0.5	PASS
BLE_2M	Ant1	2440	1.08	2439.44	2440.52	0.5	PASS
BLE_2M	Ant1	2480	0.94	2479.44	2480.38	0.5	PASS
BLE_125K	Ant1	2402	0.60	2401.71	2402.31	0.5	PASS
BLE_125K	Ant1	2440	0.60	2439.71	2440.31	0.5	PASS
BLE_125K	Ant1	2480	0.60	2479.71	2480.31	0.5	PASS
BLE_500K	Ant1	2402	0.67	2401.68	2402.36	0.5	PASS
BLE_500K	Ant1	2440	0.71	2439.66	2440.36	0.5	PASS
BLE_500K	Ant1	2480	0.71	2479.65	2480.36	0.5	PASS

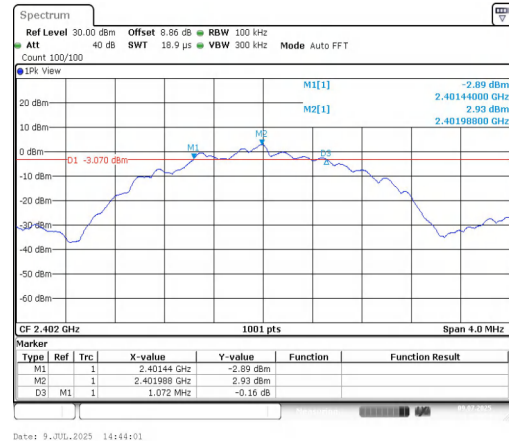
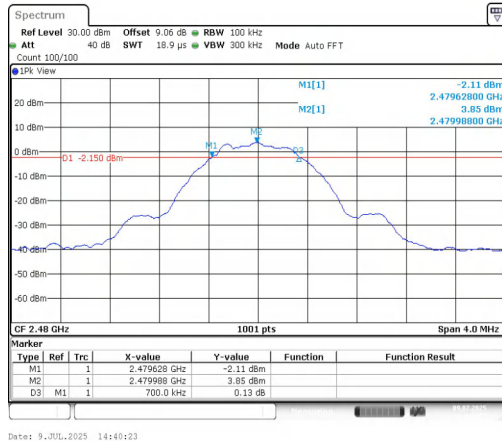


Test Graphs



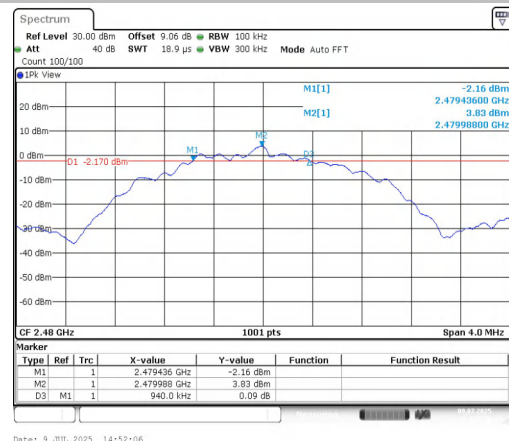
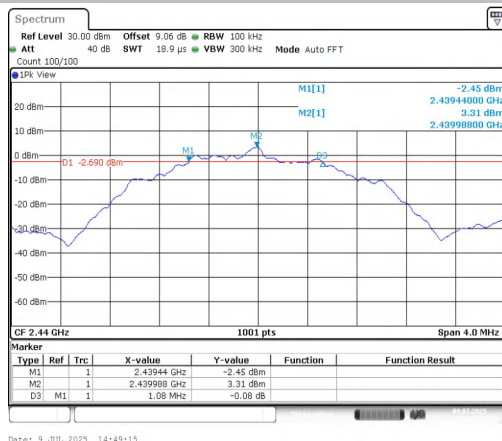
BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2440-PASS



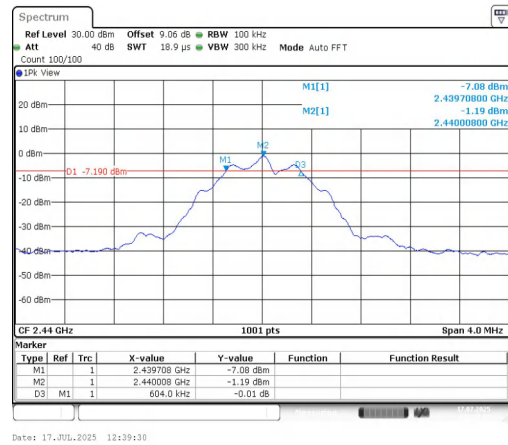
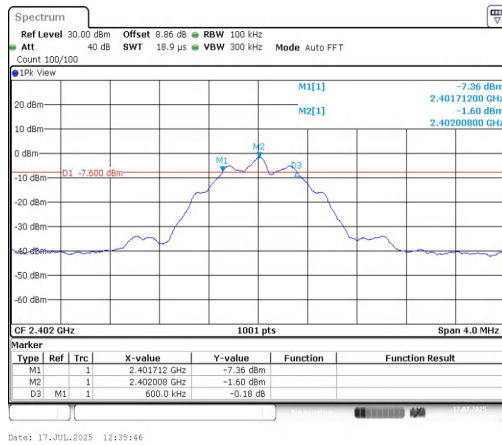
BLE_1M-Ant1-2480-PASS

BLE_2M-Ant1-2402-PASS



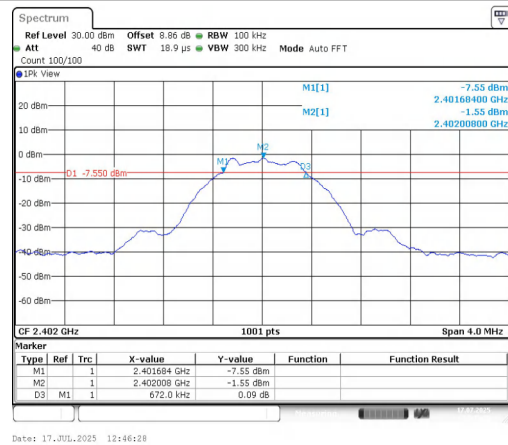
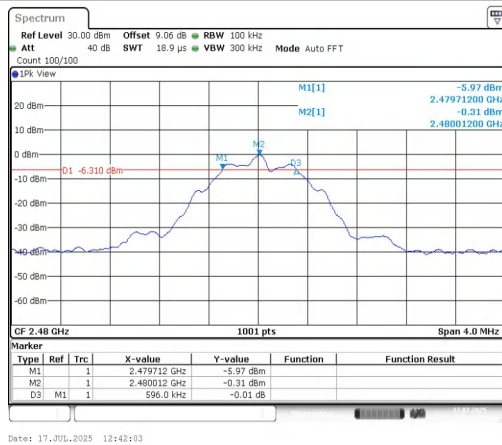
BLE_2M-Ant1-2440-PASS

BLE_2M-Ant1-2480-PASS



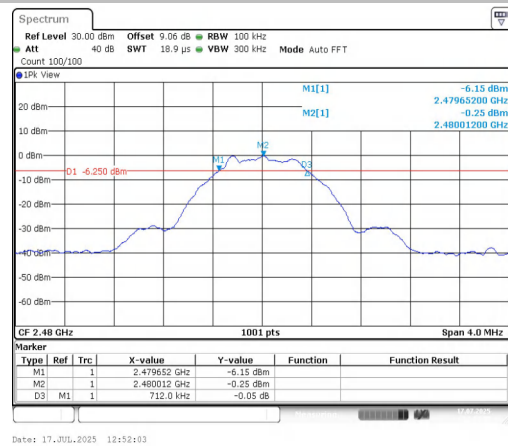
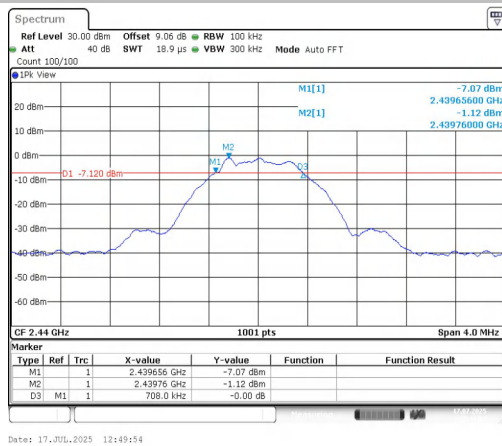
BLE_125K-Ant1-2402-PASS

BLE_125K-Ant1-2440-PASS



BLE_125K-Ant1-2480-PASS

BLE_500K-Ant1-2402-PASS



BLE_500K-Ant1-2440-PASS

BLE_500K-Ant1-2480-PASS



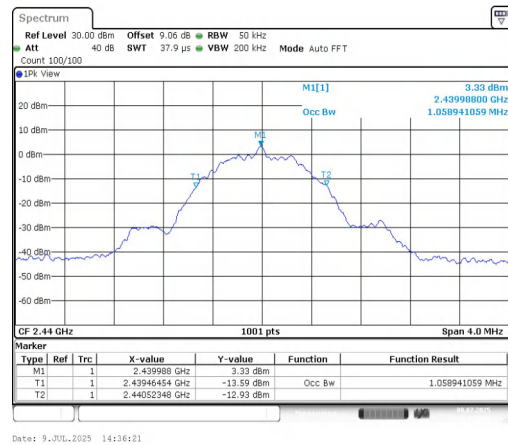
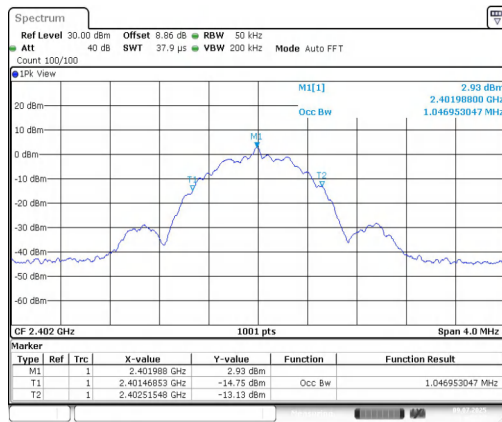
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.047	2401.4685	2402.5155	---	---
BLE_1M	Ant1	2440	1.059	2439.4645	2440.5235	---	---
BLE_1M	Ant1	2480	1.063	2479.4605	2480.5235	---	---
BLE_2M	Ant1	2402	2.066	2400.9770	2403.0430	---	---
BLE_2M	Ant1	2440	2.058	2438.9730	2441.0310	---	---
BLE_2M	Ant1	2480	2.062	2478.9690	2481.0310	---	---
BLE_125K	Ant1	2402	1.055	2401.4845	2402.5395	---	---
BLE_125K	Ant1	2440	1.059	2439.4805	2440.5395	---	---
BLE_125K	Ant1	2480	1.079	2479.4685	2480.5475	---	---
BLE_500K	Ant1	2402	1.039	2401.4925	2402.5315	---	---
BLE_500K	Ant1	2440	1.039	2439.4925	2440.5315	---	---
BLE_500K	Ant1	2480	1.047	2479.4885	2480.5355	---	---

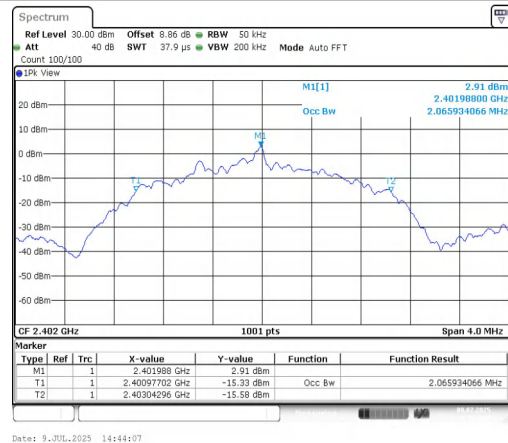
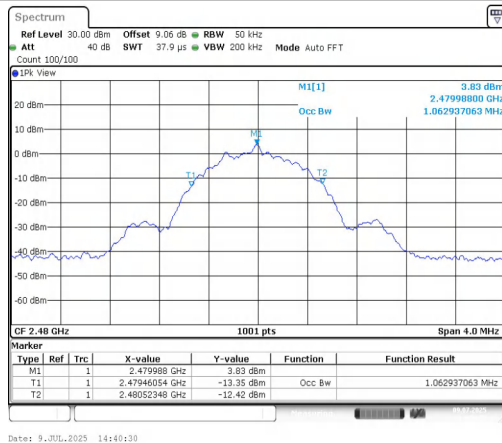


Test Graphs



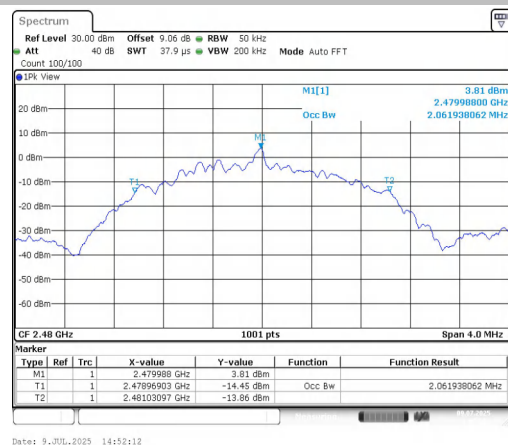
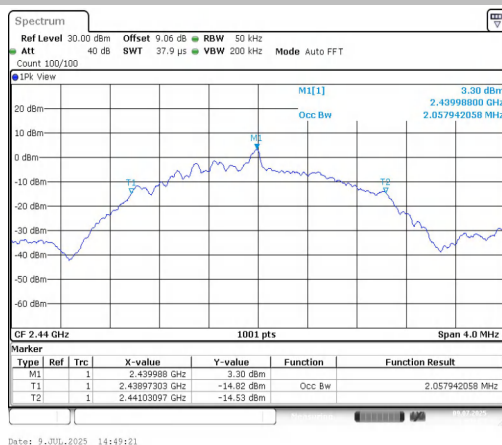
BLE_1M-Ant1-2402

BLE_1M-Ant1-2440



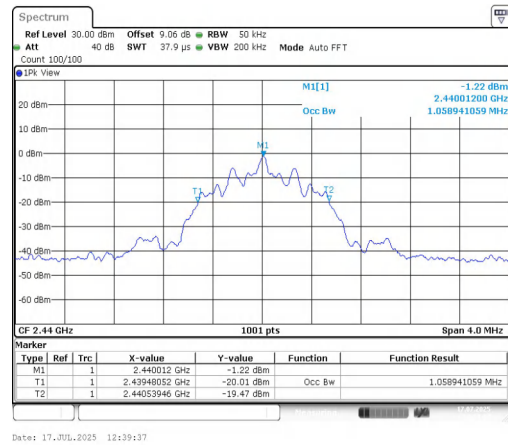
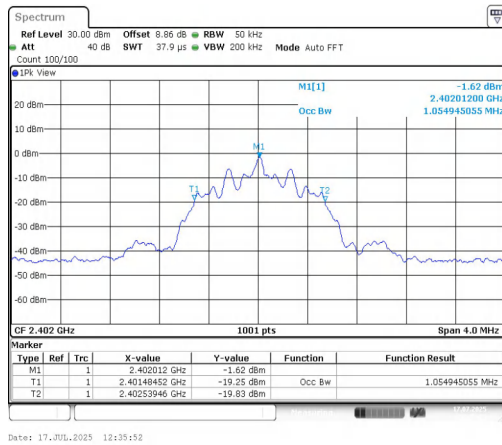
BLE_1M-Ant1-2480

BLE_2M-Ant1-2402



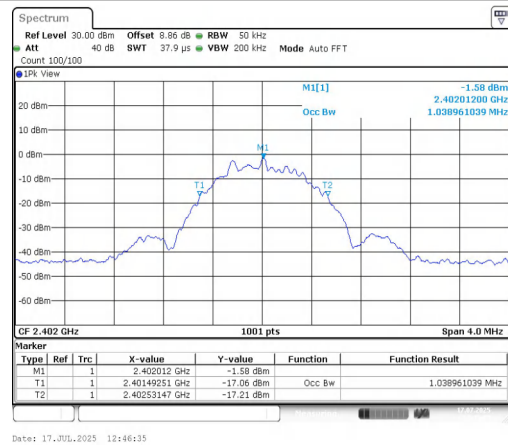
BLE_2M-Ant1-2440

BLE_2M-Ant1-2480



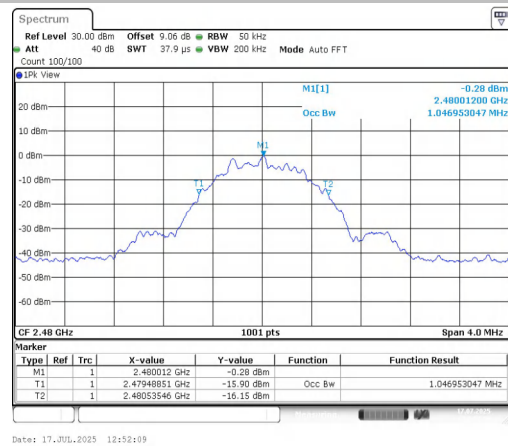
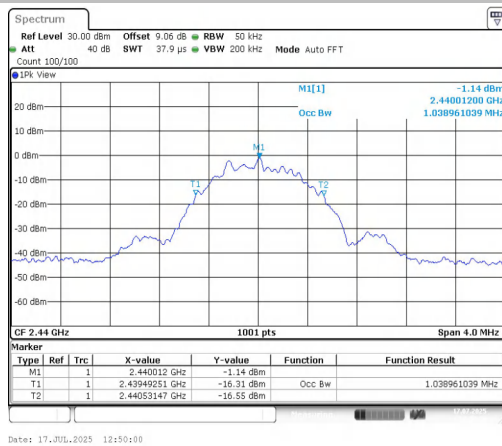
BLE_125K-Ant1-2402

BLE_125K-Ant1-2440



BLE_125K-Ant1-2480

BLE_500K-Ant1-2402



BLE_500K-Ant1-2440

BLE_500K-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	3.28	≤30.00	1.21	4.49	--	PASS
BLE_1M	Ant1	2440	3.64	≤30.00	1.21	4.85	--	PASS
BLE_1M	Ant1	2480	4.13	≤30.00	1.21	5.34	--	PASS
BLE_2M	Ant1	2402	3.26	≤30.00	1.21	4.47	--	PASS
BLE_2M	Ant1	2440	3.62	≤30.00	1.21	4.83	--	PASS
BLE_2M	Ant1	2480	4.10	≤30.00	1.21	5.31	--	PASS
BLE_125K	Ant1	2402	-1.20	≤30.00	1.21	0.01	--	PASS
BLE_125K	Ant1	2440	-0.84	≤30.00	1.21	0.37	--	PASS
BLE_125K	Ant1	2480	0.05	≤30.00	1.21	1.26	--	PASS
BLE_500K	Ant1	2402	-1.19	≤30.00	1.21	0.02	--	PASS
BLE_500K	Ant1	2440	-0.80	≤30.00	1.21	0.41	--	PASS
BLE_500K	Ant1	2480	0.07	≤30.00	1.21	1.28	--	PASS

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Conducted Sensor 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	1.45	71.43	1.46	2.91	≤30.00	1.21	4.12	--	PASS
BLE_1M	Ant1	2440	1.45	71.43	1.46	2.91	≤30.00	1.21	4.12	--	PASS
BLE_1M	Ant1	2480	1.46	71.43	1.46	2.92	≤30.00	1.21	4.13	--	PASS
BLE_2M	Ant1	2402	-0.96	41.27	3.84	2.88	≤30.00	1.21	4.09	--	PASS
BLE_2M	Ant1	2440	-0.96	41.27	3.84	2.88	≤30.00	1.21	4.09	--	PASS
BLE_2M	Ant1	2480	-0.95	41.27	3.84	2.89	≤30.00	1.21	4.1	--	PASS
BLE_125K	Ant1	2402	-1.36	90.83	0.42	-0.94	≤30.00	1.21	0.27	--	PASS
BLE_125K	Ant1	2440	-1.32	90.70	0.42	-0.90	≤30.00	1.21	0.31	--	PASS
BLE_125K	Ant1	2480	-1.22	90.83	0.42	-0.80	≤30.00	1.21	0.41	--	PASS
BLE_500K	Ant1	2402	-2.11	75.60	1.21	-0.90	≤30.00	1.21	0.31	--	PASS
BLE_500K	Ant1	2440	-2.06	75.60	1.21	-0.85	≤30.00	1.21	0.36	--	PASS
BLE_500K	Ant1	2480	-1.97	76.00	1.19	-0.78	≤30.00	1.21	0.43	--	PASS



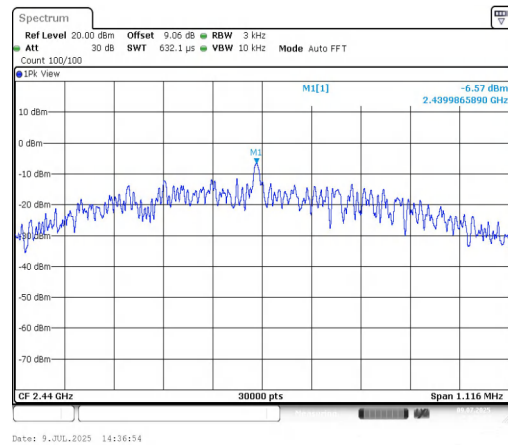
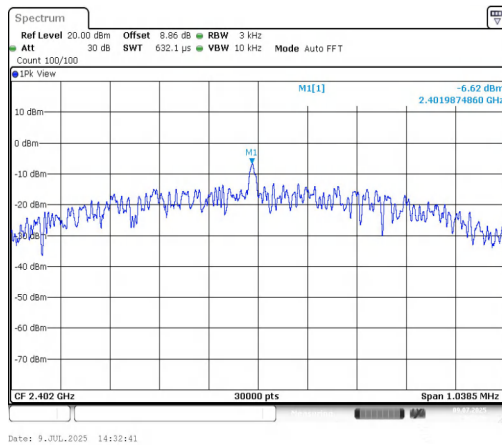
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-6.62	≤8.00	PASS
BLE_1M	Ant1	2440	-6.57	≤8.00	PASS
BLE_1M	Ant1	2480	-5.85	≤8.00	PASS
BLE_2M	Ant1	2402	-8.45	≤8.00	PASS
BLE_2M	Ant1	2440	-7.89	≤8.00	PASS
BLE_2M	Ant1	2480	-7.43	≤8.00	PASS
BLE_125K	Ant1	2402	-7.32	≤8.00	PASS
BLE_125K	Ant1	2440	-6.68	≤8.00	PASS
BLE_125K	Ant1	2480	-5.99	≤8.00	PASS
BLE_500K	Ant1	2402	-7.48	≤8.00	PASS
BLE_500K	Ant1	2440	-6.90	≤8.00	PASS
BLE_500K	Ant1	2480	-6.12	≤8.00	PASS

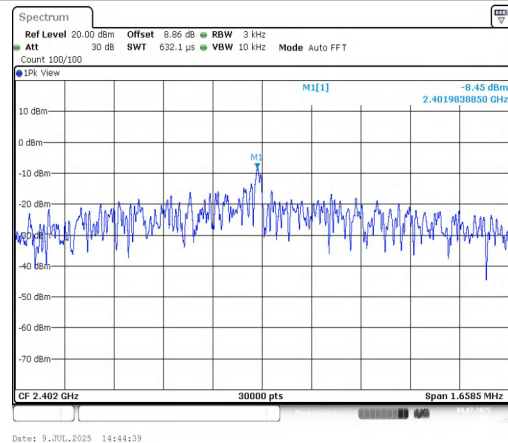
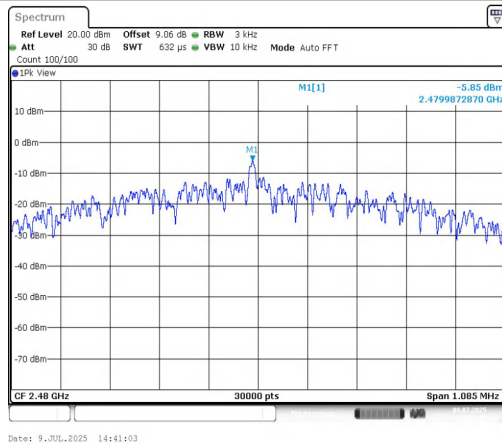


Test Graphs



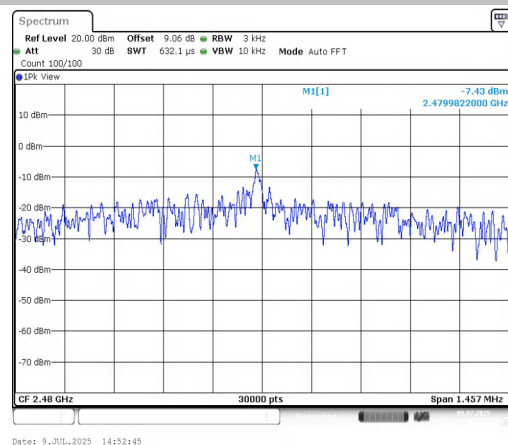
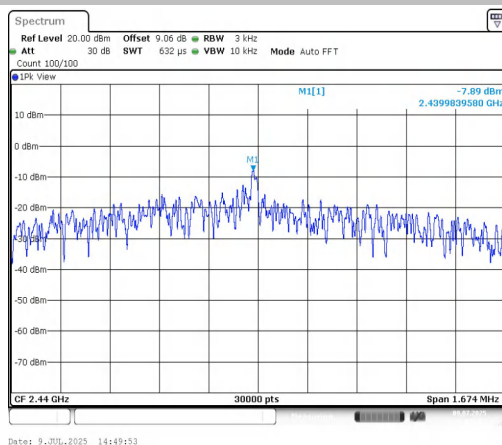
BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2440-PASS



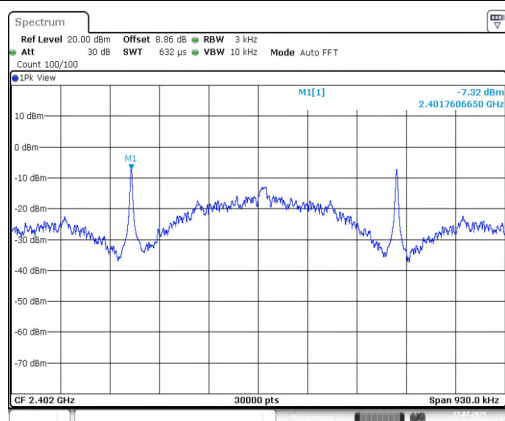
BLE_1M-Ant1-2480-PASS

BLE_2M-Ant1-2402-PASS

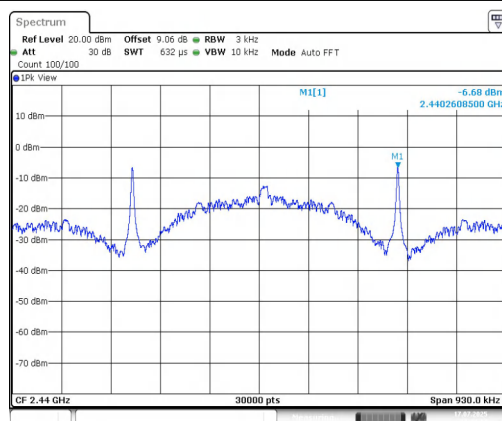


BLE_2M-Ant1-2440-PASS

BLE_2M-Ant1-2480-PASS



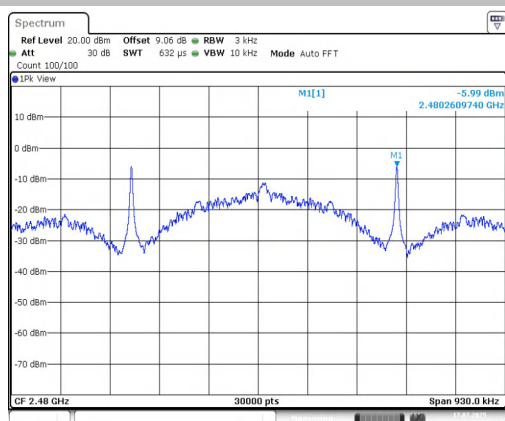
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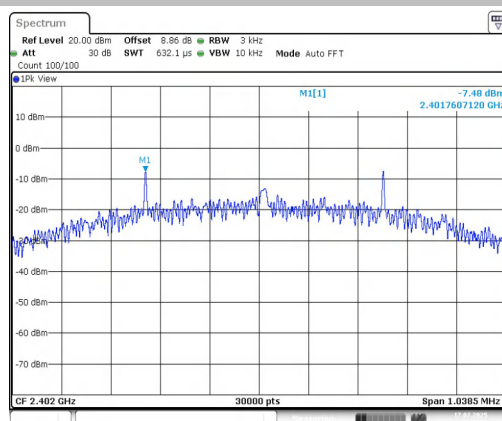
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BLE_125K-Ant1-2402-PASS

BLE_125K-Ant1-2440-PASS



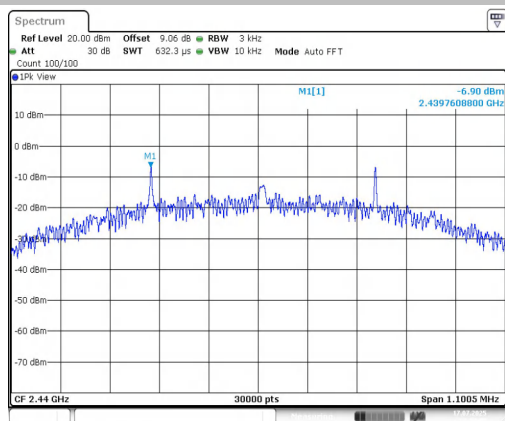
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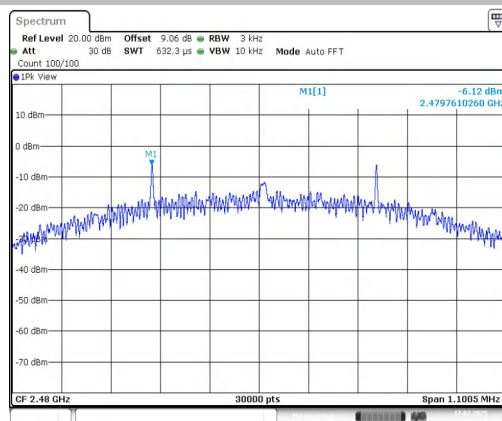
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BLE_125K-Ant1-2480-PASS

BLE_500K-Ant1-2402-PASS



Date: 17-JUL-2025 12:50:33



Date: 17-JUL-2025 12:52:43

BLE_500K-Ant1-2440-PASS

BLE_500K-Ant1-2480-PASS



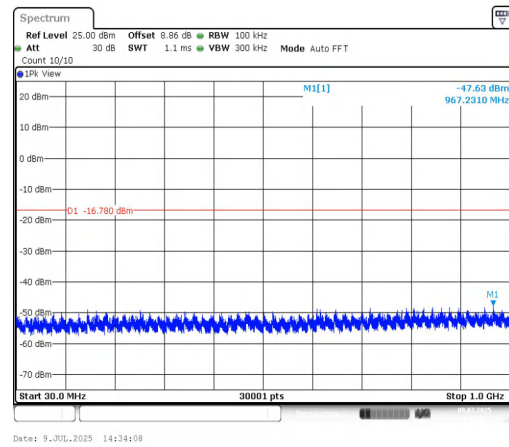
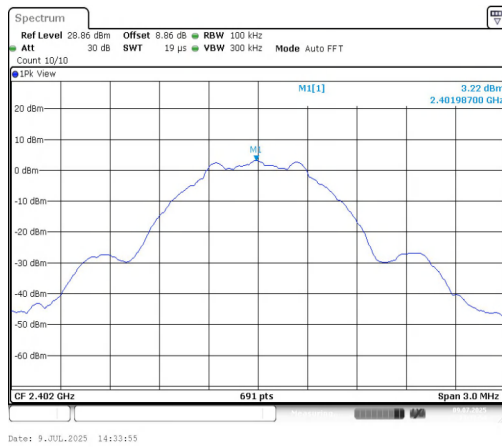
Appendix E: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	3.22	3.22	---	PASS
BLE_1M	Ant1	2402	30~1000	3.22	-47.63	≤-16.78	PASS
BLE_1M	Ant1	2402	1000~26500	3.22	-37.23	≤-16.78	PASS
BLE_1M	Ant1	2440	0~Reference	3.58	3.58	---	PASS
BLE_1M	Ant1	2440	30~1000	3.58	-48.15	≤-16.42	PASS
BLE_1M	Ant1	2440	1000~26500	3.58	-37.1	≤-16.42	PASS
BLE_1M	Ant1	2480	0~Reference	4.05	4.05	---	PASS
BLE_1M	Ant1	2480	30~1000	4.05	-48.13	≤-15.95	PASS
BLE_1M	Ant1	2480	1000~26500	4.05	-37.44	≤-15.95	PASS
BLE_2M	Ant1	2402	0~Reference	3.20	3.20	---	PASS
BLE_2M	Ant1	2402	30~1000	3.20	-47.93	≤-16.8	PASS
BLE_2M	Ant1	2402	1000~26500	3.20	-37.28	≤-16.8	PASS
BLE_2M	Ant1	2440	0~Reference	3.56	3.56	---	PASS
BLE_2M	Ant1	2440	30~1000	3.56	-47.8	≤-16.44	PASS
BLE_2M	Ant1	2440	1000~26500	3.56	-37.07	≤-16.44	PASS
BLE_2M	Ant1	2480	0~Reference	4.04	4.04	---	PASS
BLE_2M	Ant1	2480	30~1000	4.04	-48.29	≤-15.96	PASS
BLE_2M	Ant1	2480	1000~26500	4.04	-37.3	≤-15.96	PASS
BLE_125K	Ant1	2402	0~Reference	-1.34	-1.34	---	PASS
BLE_125K	Ant1	2402	30~1000	-1.34	-27.39	≤-21.34	PASS
BLE_125K	Ant1	2402	1000~26500	-1.34	-36.91	≤-21.34	PASS
BLE_125K	Ant1	2440	0~Reference	-0.97	-0.97	---	PASS
BLE_125K	Ant1	2440	30~1000	-0.97	-24.9	≤-20.97	PASS
BLE_125K	Ant1	2440	1000~26500	-0.97	-36.89	≤-20.97	PASS
BLE_125K	Ant1	2480	0~Reference	-0.08	-0.08	---	PASS
BLE_125K	Ant1	2480	30~1000	-0.08	-42.25	≤-20.08	PASS
BLE_125K	Ant1	2480	1000~26500	-0.08	-36.64	≤-20.08	PASS
BLE_500K	Ant1	2402	0~Reference	-1.29	-1.29	---	PASS
BLE_500K	Ant1	2402	30~1000	-1.29	-29.96	≤-21.29	PASS
BLE_500K	Ant1	2402	1000~26500	-1.29	-33.88	≤-21.29	PASS
BLE_500K	Ant1	2440	0~Reference	-0.87	-0.87	---	PASS
BLE_500K	Ant1	2440	30~1000	-0.87	-25.83	≤-20.87	PASS
BLE_500K	Ant1	2440	1000~26500	-0.87	-36.18	≤-20.87	PASS
BLE_500K	Ant1	2480	0~Reference	-0.03	-0.03	---	PASS
BLE_500K	Ant1	2480	30~1000	-0.03	-39.37	≤-20.03	PASS
BLE_500K	Ant1	2480	1000~26500	-0.03	-36.6	≤-20.03	PASS

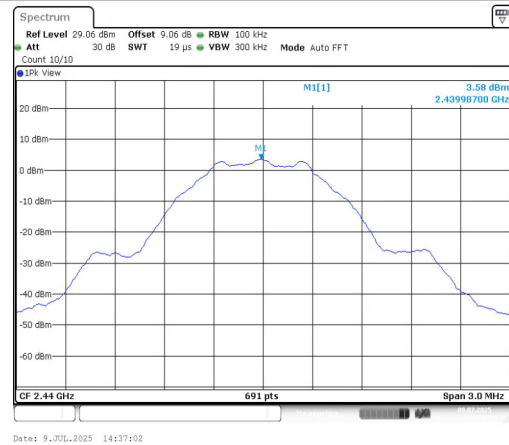
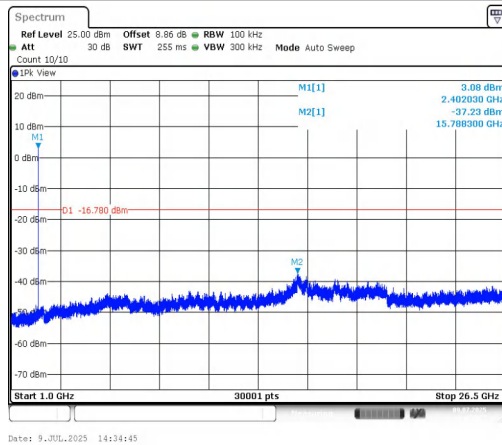


Test Graphs



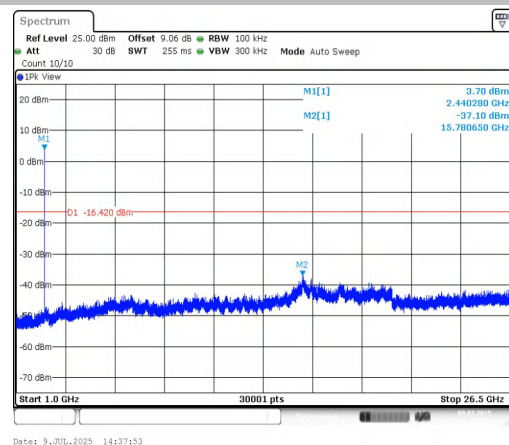
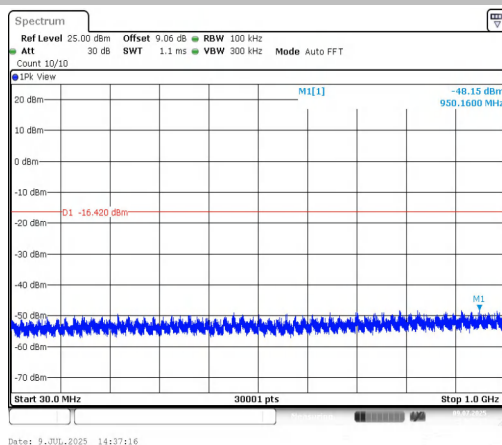
BLE_1M-Ant1-2402-0~Reference-PASS

BLE_1M-Ant1-2402-30~1000-PASS



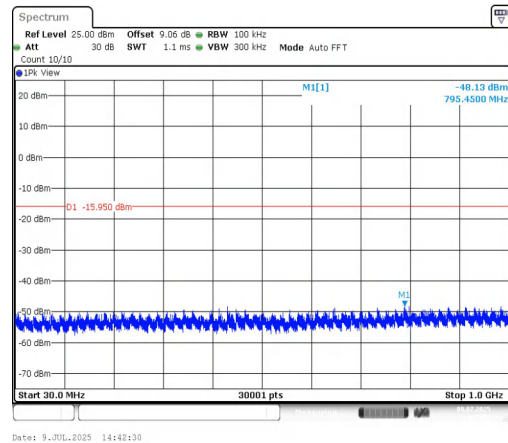
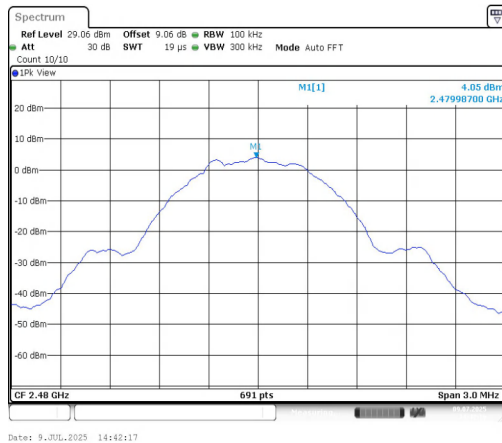
BLE_1M-Ant1-2402-1000~26500-PASS

BLE_1M-Ant1-2440-0~Reference-PASS



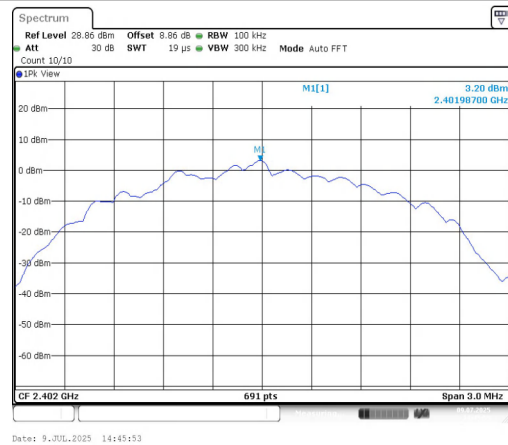
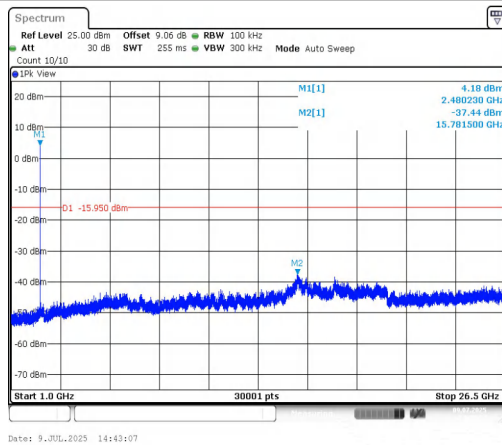
BLE_1M-Ant1-2440-30~1000-PASS

BLE_1M-Ant1-2440-1000~26500-PASS



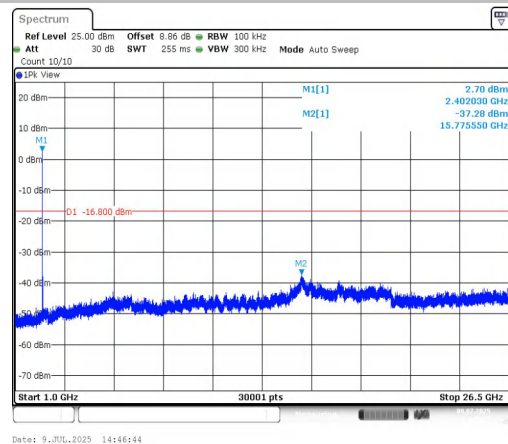
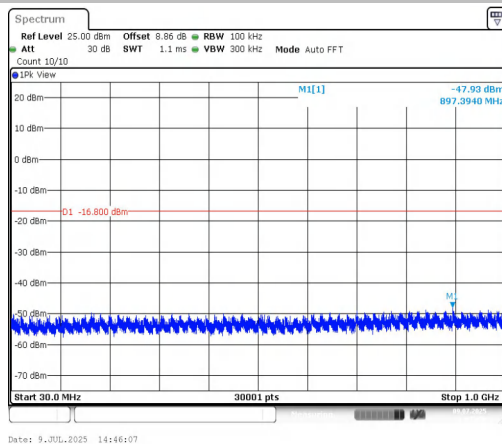
BLE_1M-Ant1-2480-0~Reference-PASS

BLE_1M-Ant1-2480-30~1000-PASS



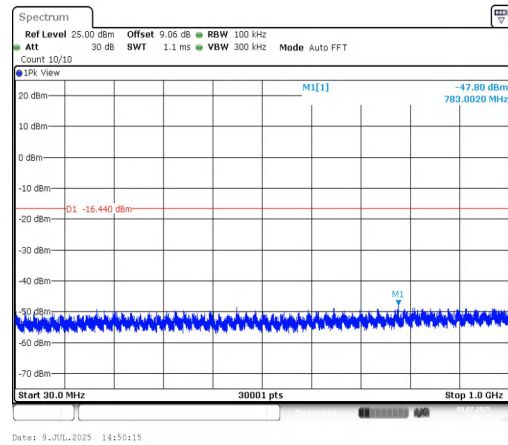
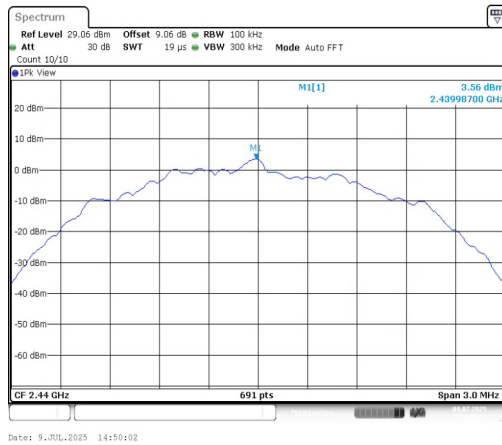
BLE_1M-Ant1-2480-1000~26500-PASS

BLE_2M-Ant1-2402-0~Reference-PASS



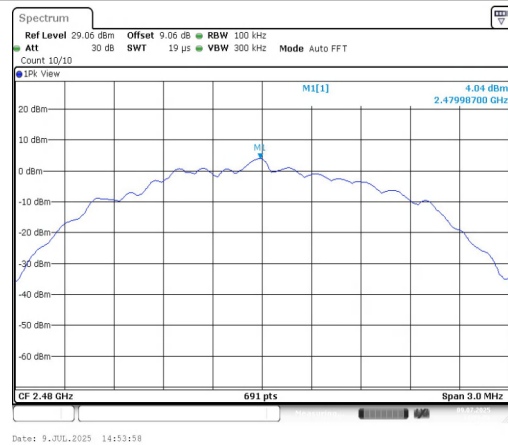
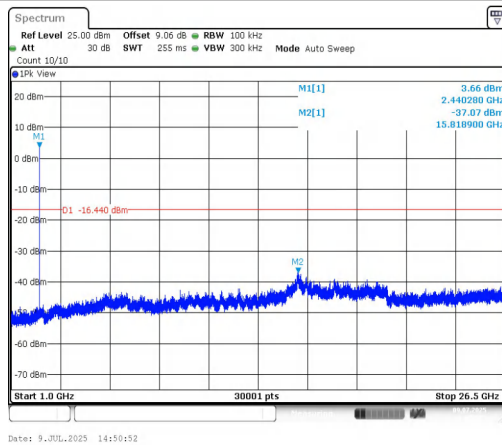
BLE_2M-Ant1-2402-30~1000-PASS

BLE_2M-Ant1-2402-1000~26500-PASS



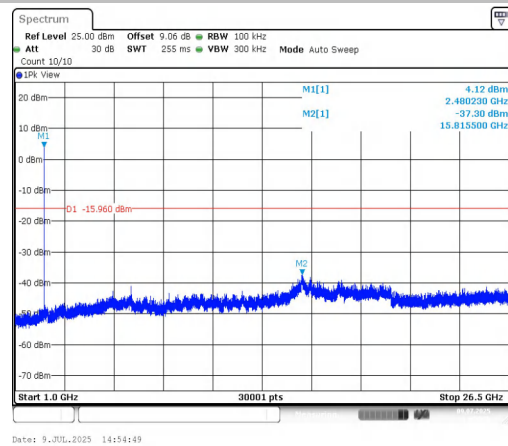
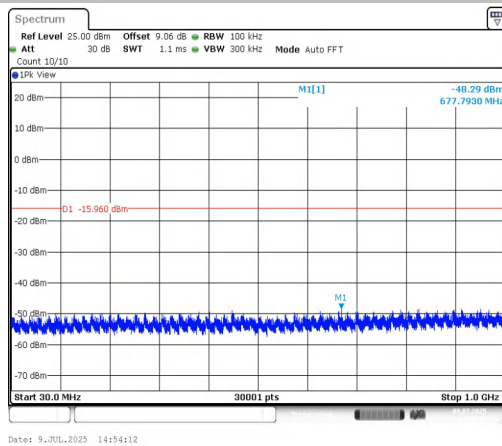
BLE_2M-Ant1-2440-0~Reference-PASS

BLE_2M-Ant1-2440-30~1000-PASS



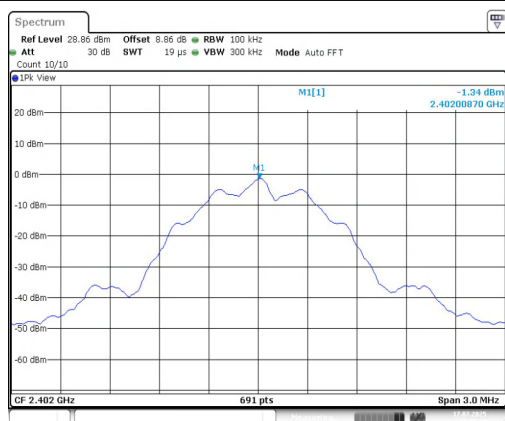
BLE_2M-Ant1-2440-1000~26500-PASS

BLE_2M-Ant1-2480-0~Reference-PASS

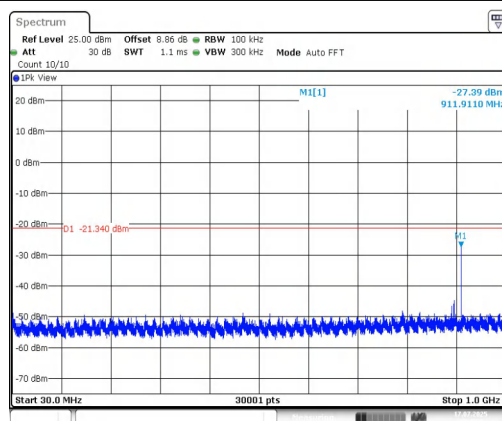


BLE_2M-Ant1-2480-30~1000-PASS

BLE_2M-Ant1-2480-1000~26500-PASS



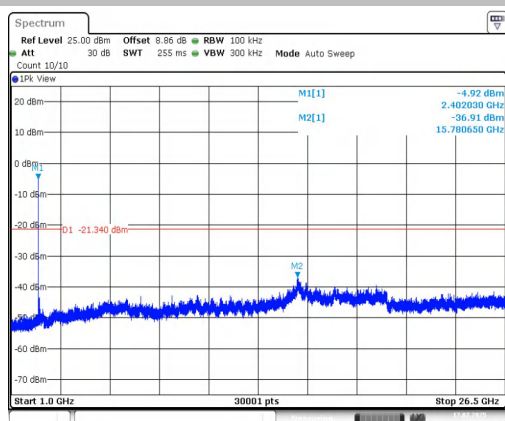
Date: 17-JUL-2025 12:37:55



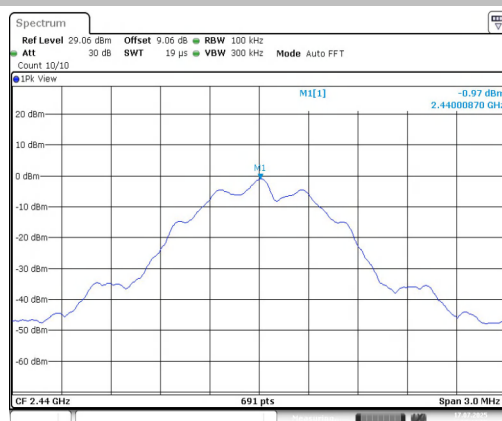
Date: 17-JUL-2025 12:38:08

BLE_125K-Ant1-2402-0~Reference-PASS

BLE_125K-Ant1-2402-30~1000-PASS



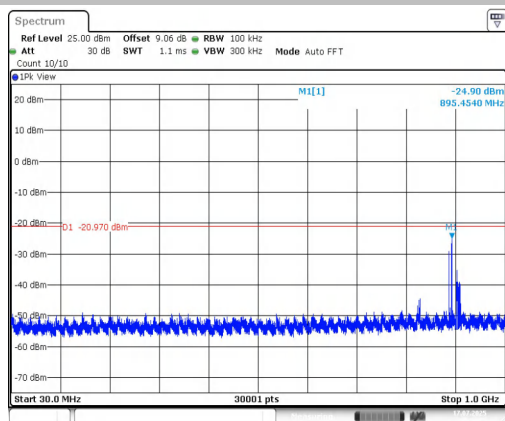
Date: 17-JUL-2025 12:38:45



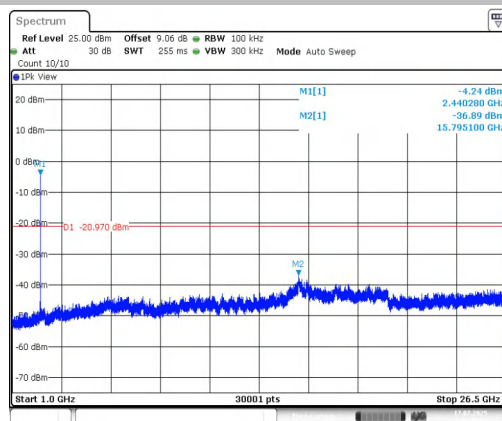
Date: 17-JUL-2025 12:40:19

BLE_125K-Ant1-2402-1000~26500-PASS

BLE_125K-Ant1-2440-0~Reference-PASS



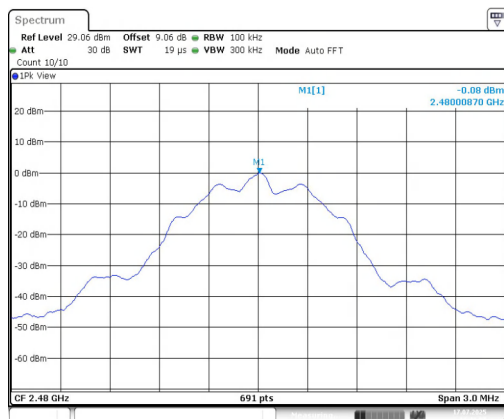
Date: 17-JUL-2025 12:40:32



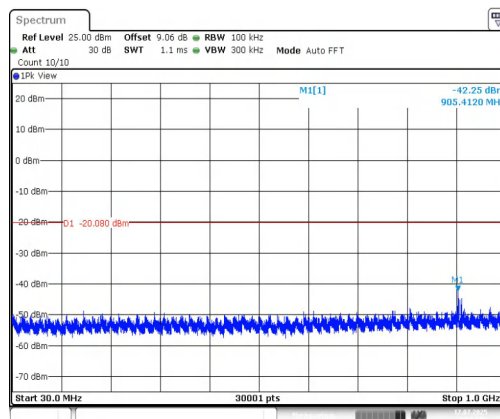
Date: 17-JUL-2025 12:41:09

BLE_125K-Ant1-2440-30~1000-PASS

BLE_125K-Ant1-2440-1000~26500-PASS



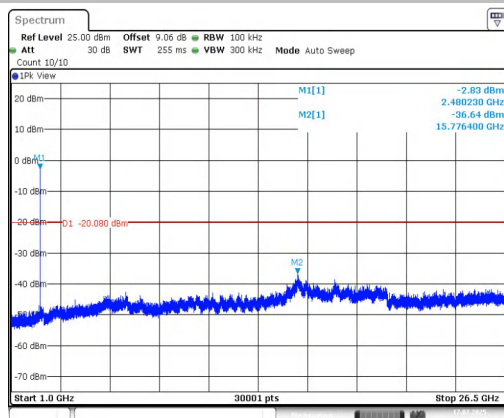
Date: 17-JUL-2025 12:43:57



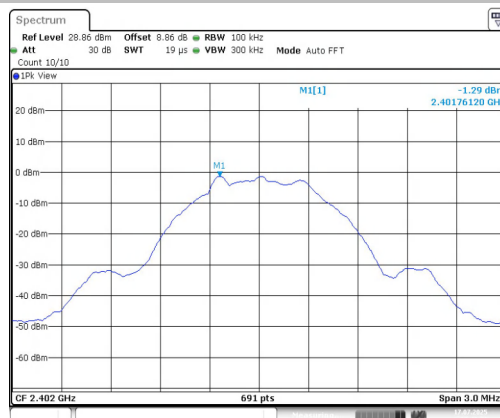
Date: 17-JUL-2025 12:44:10

BLE_125K-Ant1-2480-0~Reference-PASS

BLE_125K-Ant1-2480-30~1000-PASS



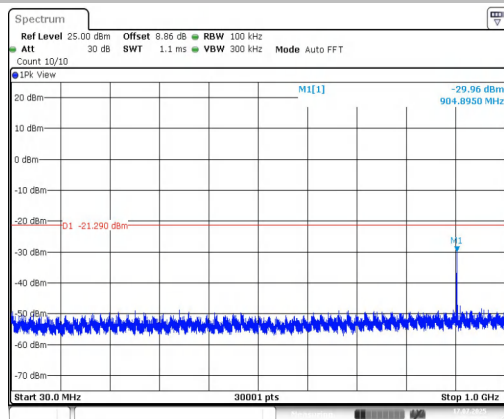
Date: 17-JUL-2025 12:44:27



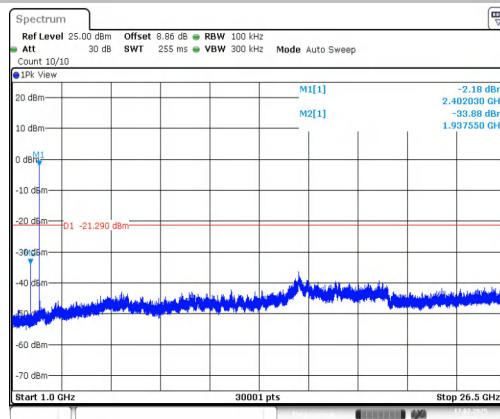
Date: 17-JUL-2025 12:44:21

BLE_125K-Ant1-2480-1000~26500-PASS

BLE_500K-Ant1-2402-0~Reference-PASS



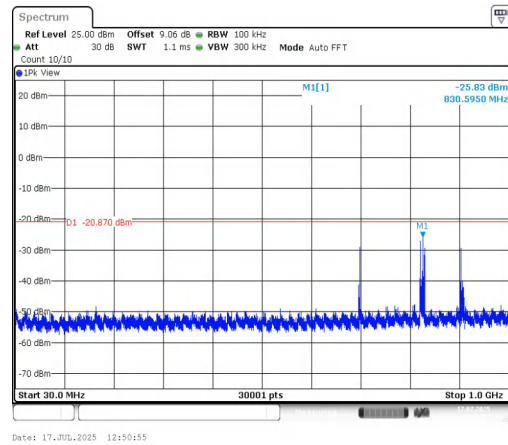
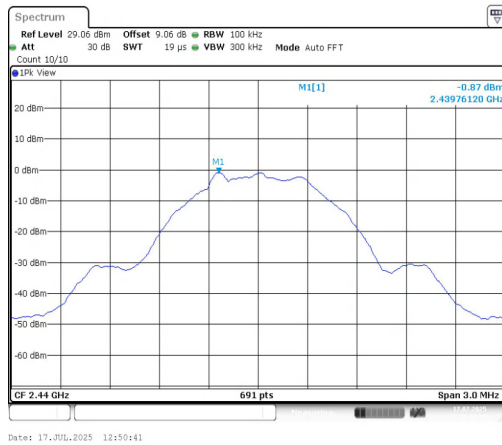
Date: 17-JUL-2025 12:48:35



Date: 17-JUL-2025 12:49:12

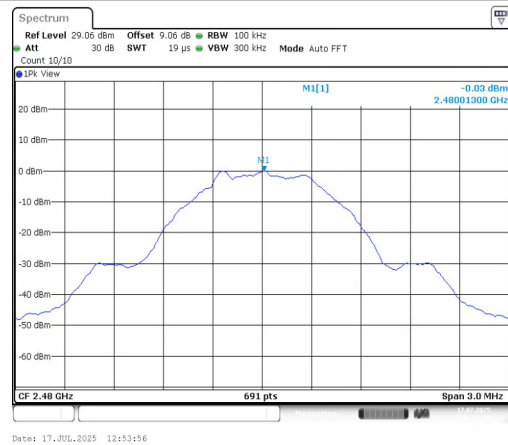
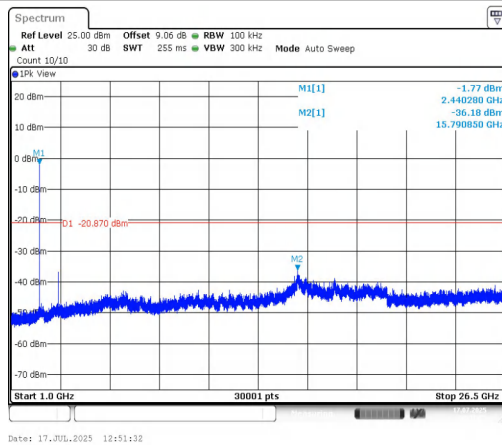
BLE_500K-Ant1-2402-30~1000-PASS

BLE_500K-Ant1-2402-1000~26500-PASS



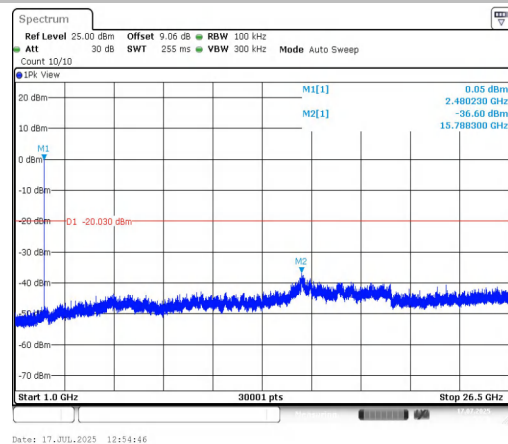
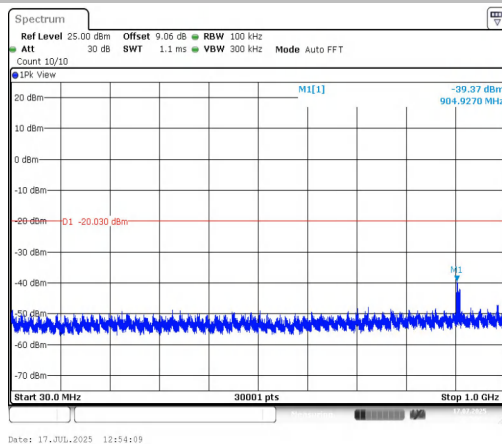
BLE_500K-Ant1-2440-0~Reference-PASS

BLE_500K-Ant1-2440-30~1000-PASS



BLE_500K-Ant1-2440-1000~26500-PASS

BLE_500K-Ant1-2480-0~Reference-PASS



BLE_500K-Ant1-2480-30~1000-PASS

BLE_500K-Ant1-2480-1000~26500-PASS



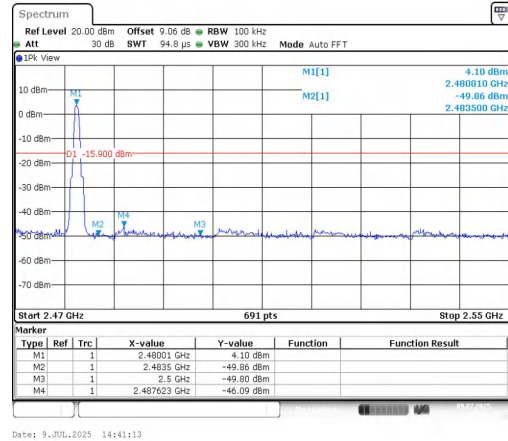
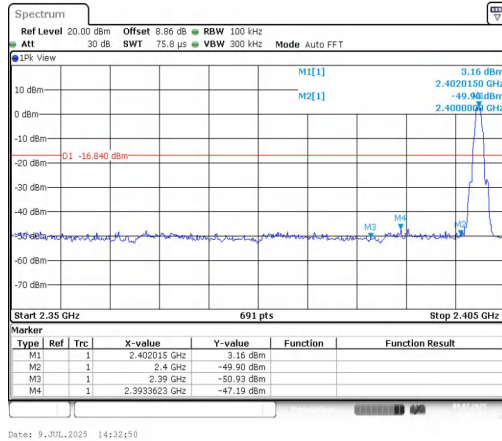
Appendix F: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.16	-47.19	≤ -16.84	PASS
BLE_1M	Ant1	High	2480	4.10	-46.09	≤ -15.9	PASS
BLE_2M	Ant1	Low	2402	3.13	-30.29	≤ -16.87	PASS
BLE_2M	Ant1	High	2480	4.08	-46.72	≤ -15.92	PASS
BLE_125K	Ant1	Low	2402	-1.38	-48.03	≤ -21.38	PASS
BLE_125K	Ant1	High	2480	-0.06	-46.32	≤ -20.06	PASS
BLE_500K	Ant1	Low	2402	-1.32	-47.25	≤ -21.32	PASS
BLE_500K	Ant1	High	2480	0.02	-46.89	≤ -19.98	PASS

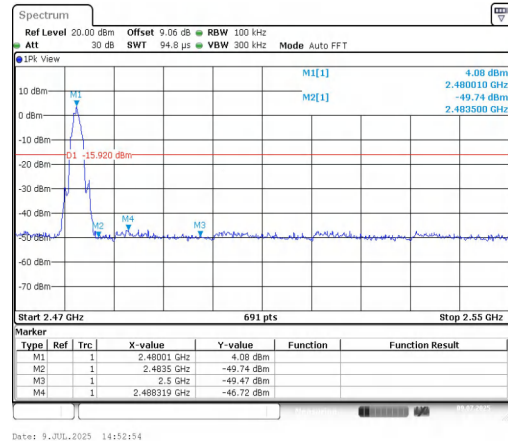
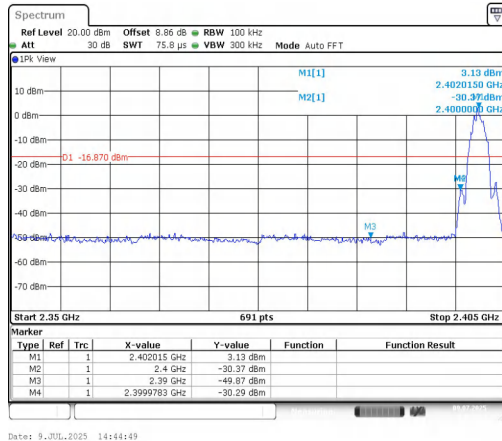


Test Graphs



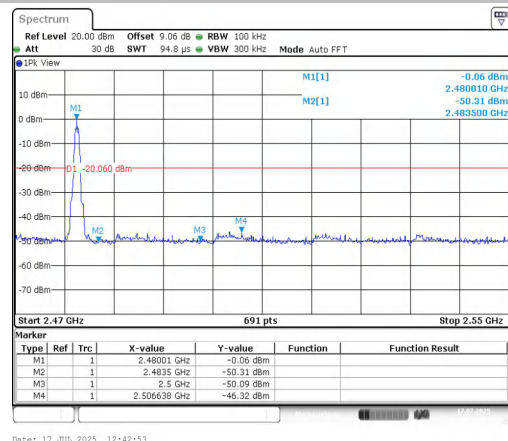
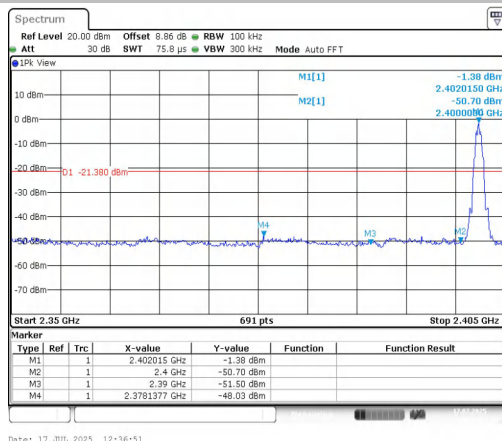
BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2480-PASS



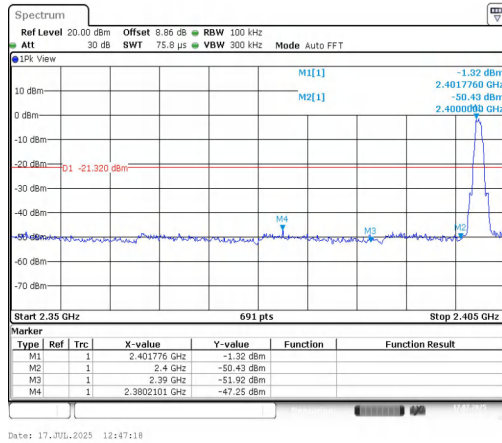
BLE_2M-Ant1-2402-PASS

BLE_2M-Ant1-2480-PASS

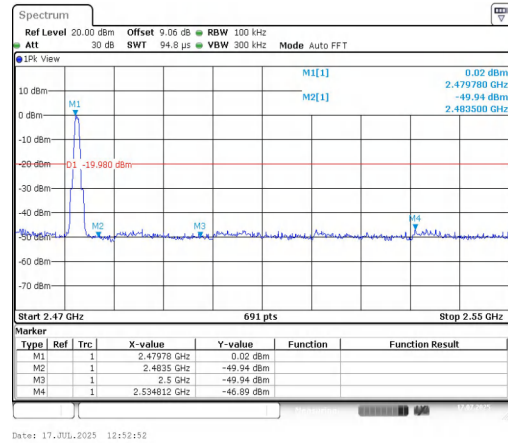


BLE_125K-Ant1-2402-PASS

BLE_125K-Ant1-2480-PASS



BLE_500K-Ant1-2402-PASS



BLE_500K-Ant1-2480-PASS



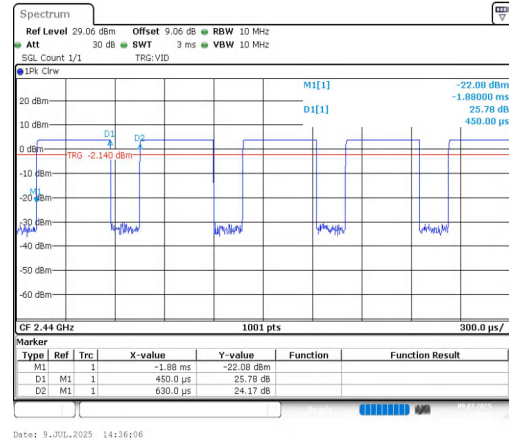
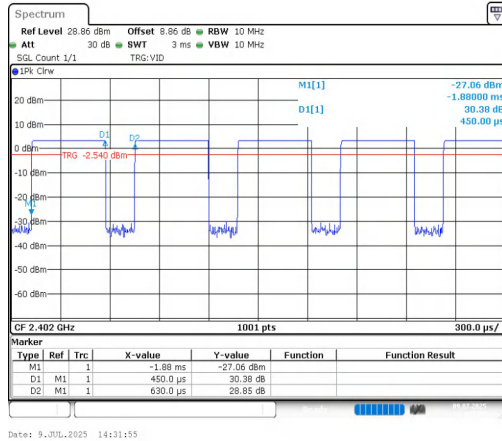
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
BLE_1M	Ant1	2402	0.45	0.63	71.43
BLE_1M	Ant1	2440	0.45	0.63	71.43
BLE_1M	Ant1	2480	0.45	0.63	71.43
BLE_2M	Ant1	2402	0.26	0.63	41.27
BLE_2M	Ant1	2440	0.26	0.63	41.27
BLE_2M	Ant1	2480	0.26	0.63	41.27
BLE_125K	Ant1	2402	6.24	6.87	90.83
BLE_125K	Ant1	2440	6.24	6.88	90.70
BLE_125K	Ant1	2480	6.24	6.87	90.83
BLE_500K	Ant1	2402	1.89	2.50	75.60
BLE_500K	Ant1	2440	1.89	2.50	75.60
BLE_500K	Ant1	2480	1.90	2.50	76.00

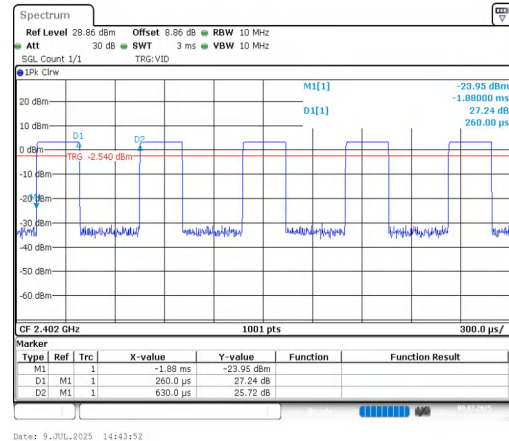
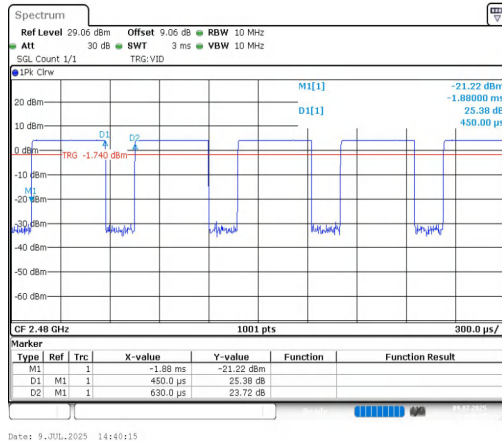


Test Graphs



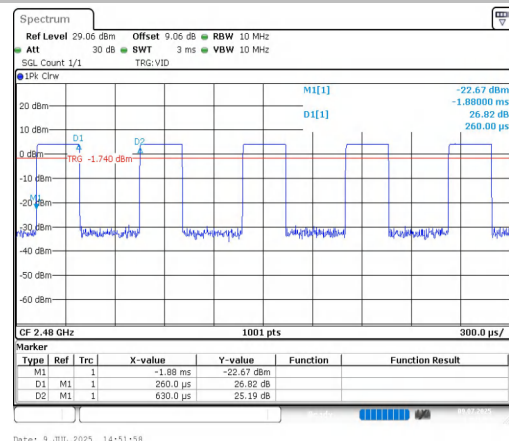
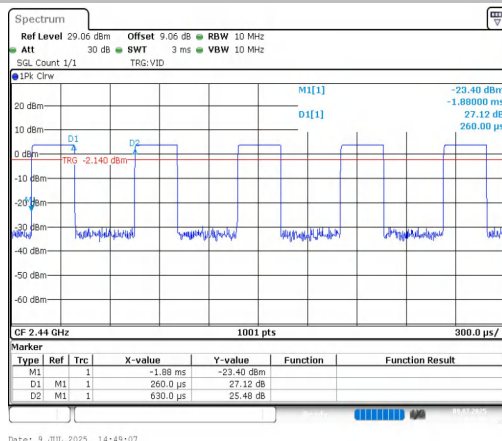
NTNV-BLE_1M-Ant1-2402

NTNV-BLE_1M-Ant1-2440



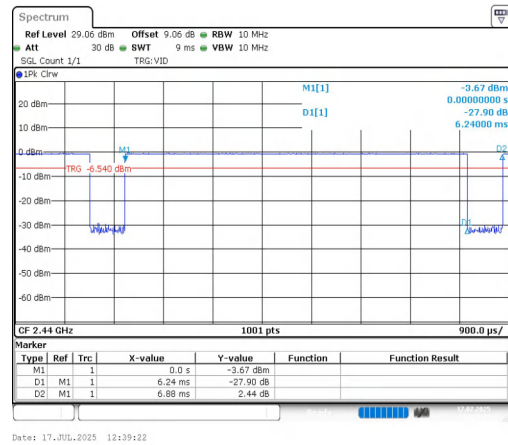
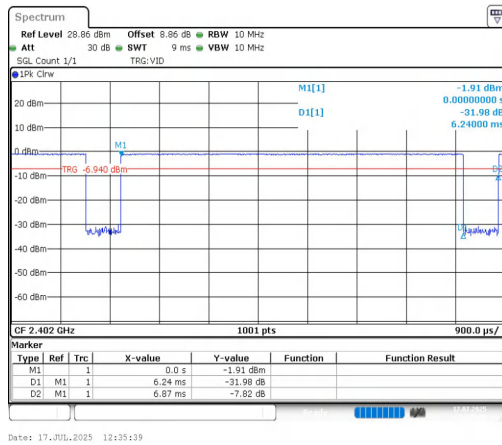
NTNV-BLE_1M-Ant1-2480

NTNV-BLE_2M-Ant1-2402



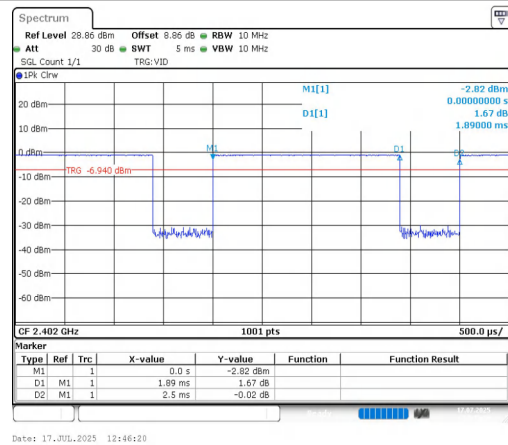
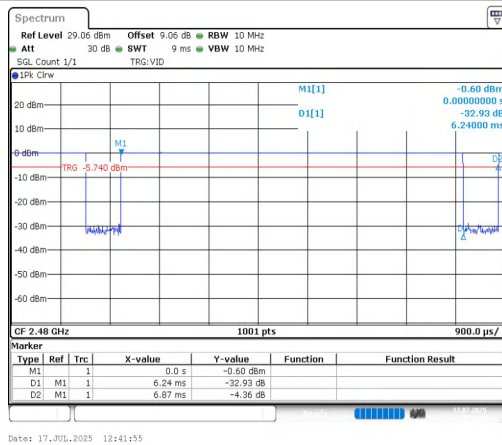
NTNV-BLE_2M-Ant1-2440

NTNV-BLE_2M-Ant1-2480



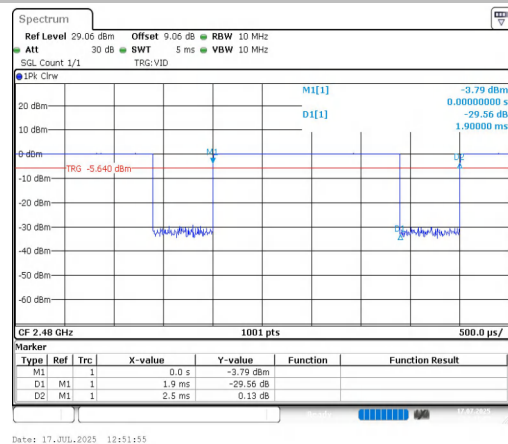
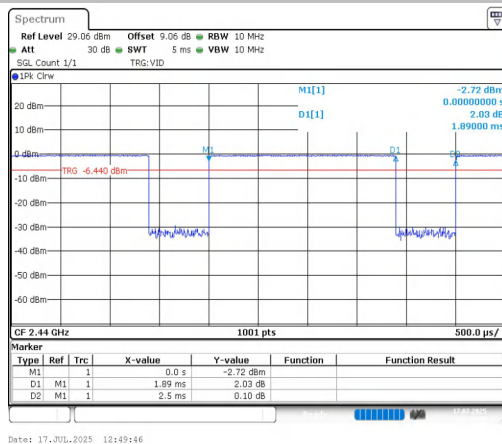
NTNV-BLE_125K-Ant1-2402

NTNV-BLE_125K-Ant1-2440



NTNV-BLE_125K-Ant1-2480

NTNV-BLE_500K-Ant1-2402



NTNV-BLE_500K-Ant1-2440

NTNV-BLE_500K-Ant1-2480

-----END-----