



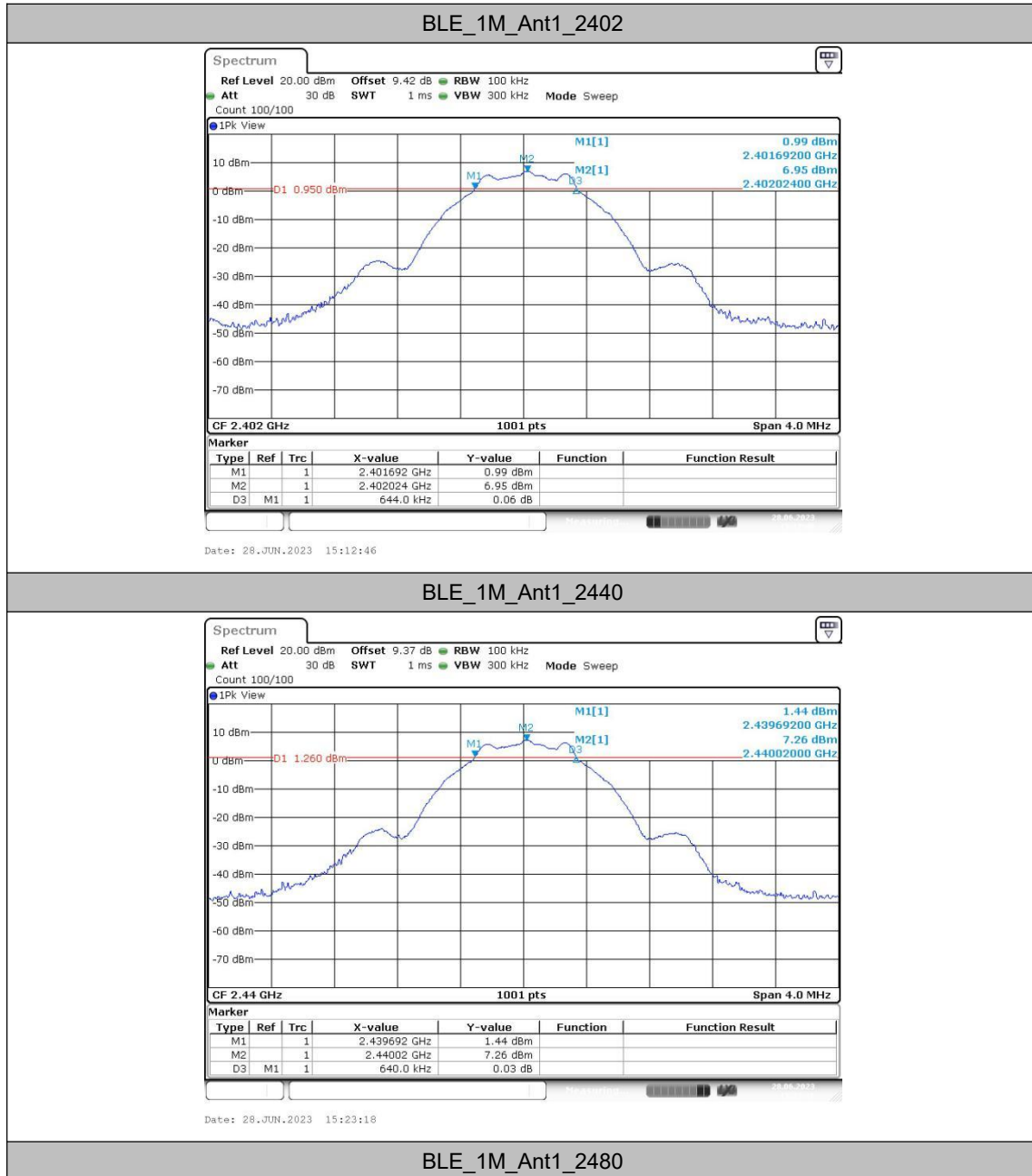
Appendix A: 6dB bandwidth

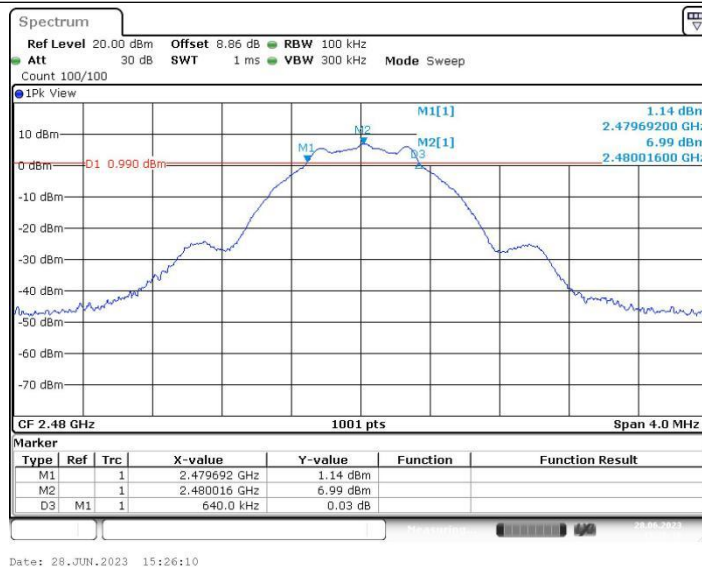
Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.64	2401.69	2402.34	0.5	PASS
		2440	0.64	2439.69	2440.33	0.5	PASS
		2480	0.64	2479.69	2480.33	0.5	PASS
BLE_2M	Ant1	2402	1.11	2401.47	2402.58	0.5	PASS
		2440	1.11	2439.48	2440.59	0.5	PASS
		2480	1.11	2479.48	2480.58	0.5	PASS

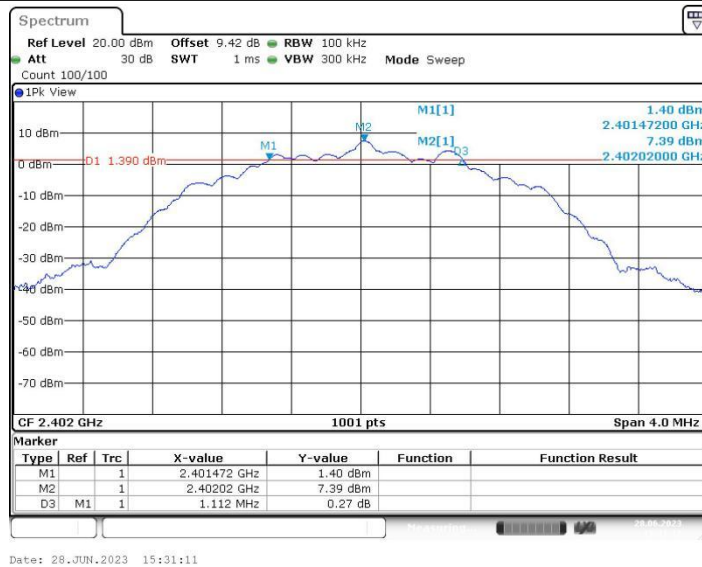


Test Graphs

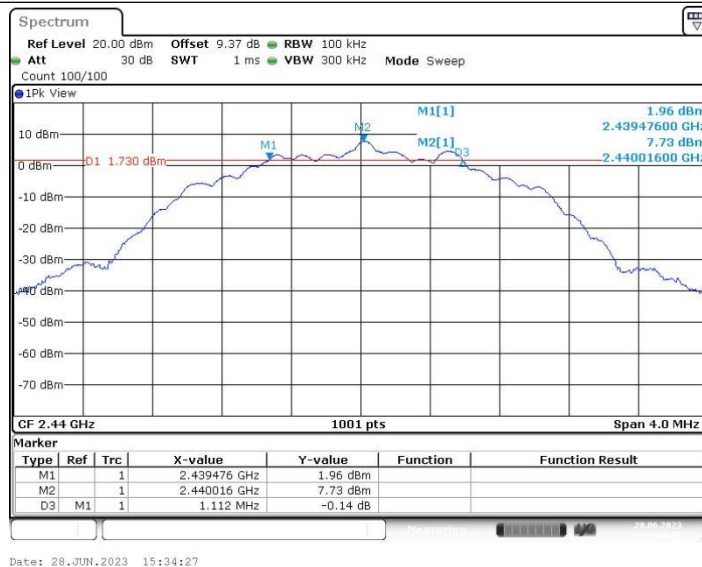




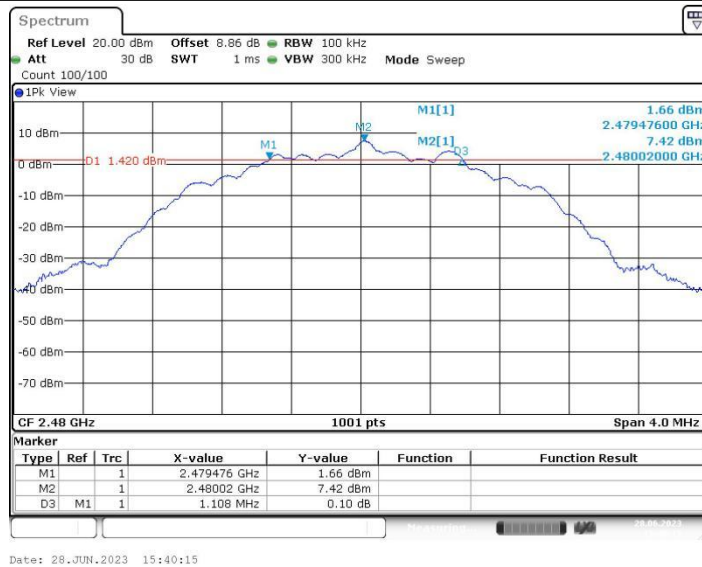
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480





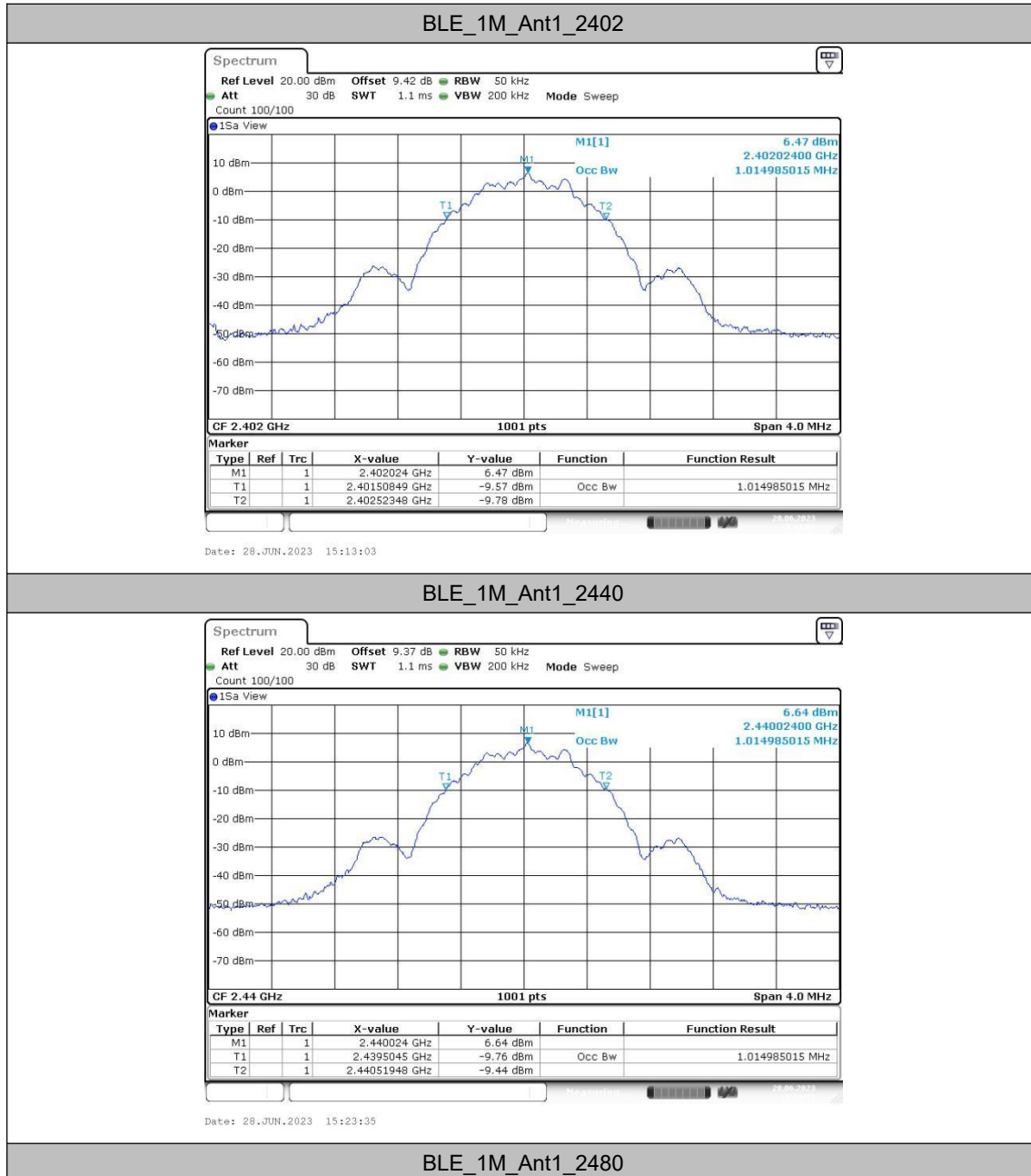
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.015	2401.508	2402.523	---	---
		2440	1.015	2439.504	2440.519	---	---
		2480	1.019	2479.504	2480.523	---	---
BLE_2M	Ant1	2402	2.03	2401.009	2403.039	---	---
		2440	2.03	2439.009	2441.039	---	---
		2480	2.03	2479.009	2481.039	---	---

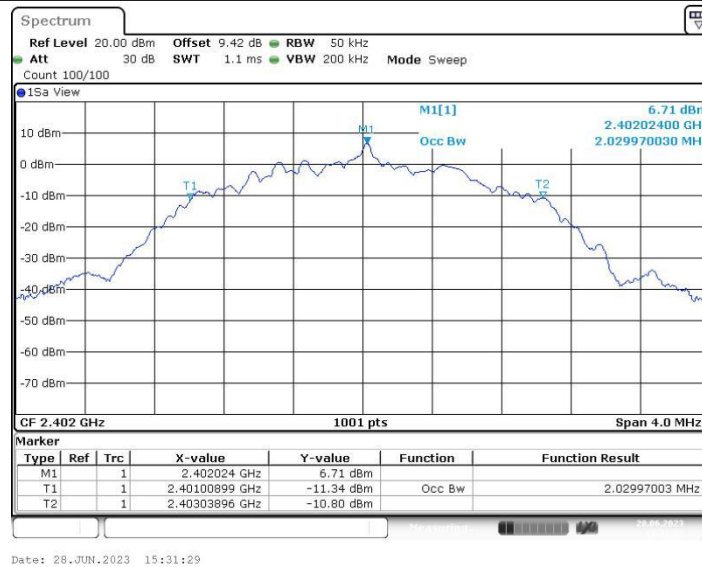


Test Graphs





BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480





Appendix C: Conducted Output power

Test Result Peak

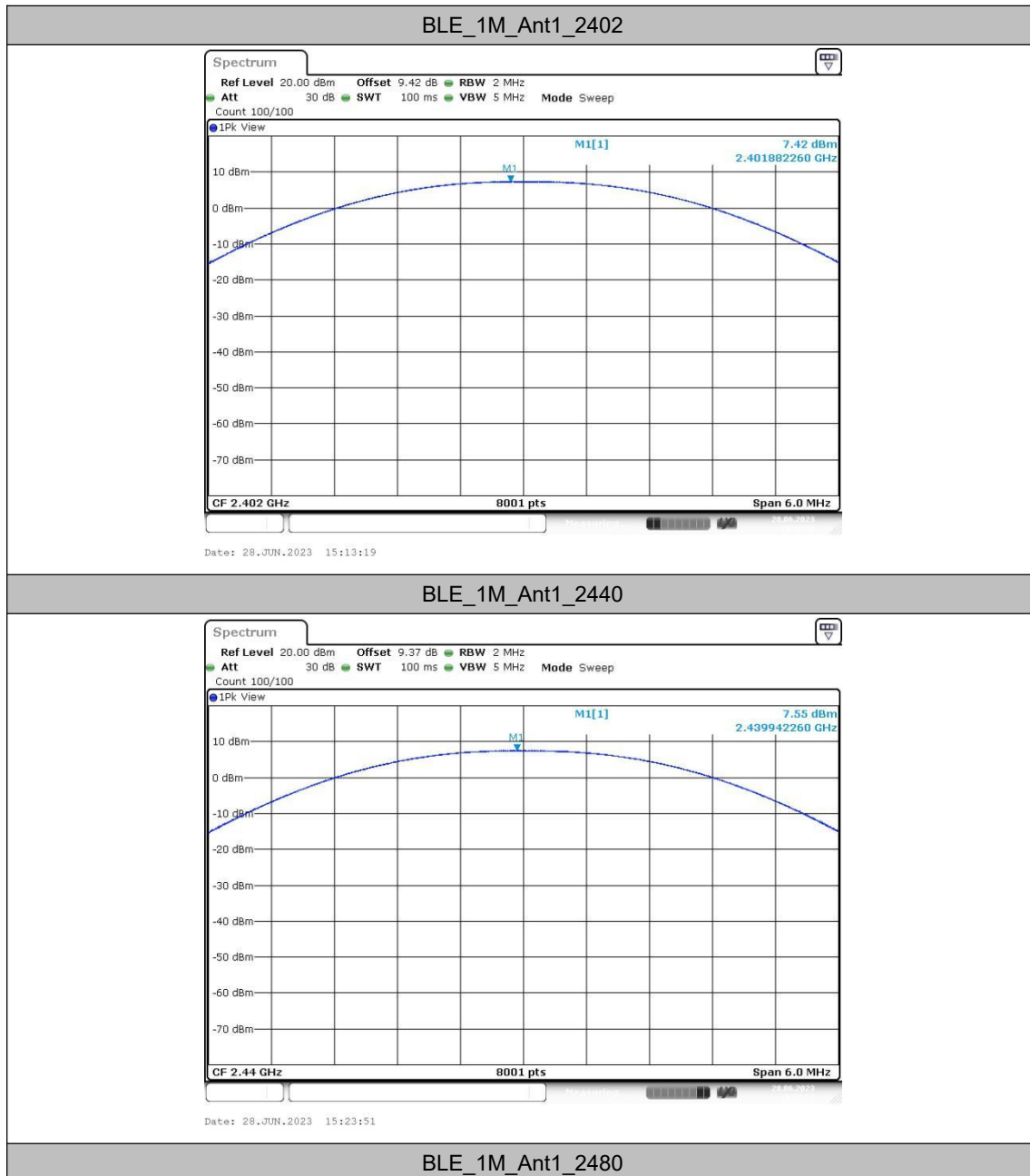
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	7.42	≤30	8.77	≤36	PASS
		2440	7.55	≤30	8.9	≤36	PASS
		2480	7.28	≤30	8.63	≤36	PASS
BLE_2M	Ant1	2402	7.63	≤30	8.98	≤36	PASS
		2440	7.9	≤30	9.25	≤36	PASS
		2480	7.61	≤30	8.96	≤36	PASS

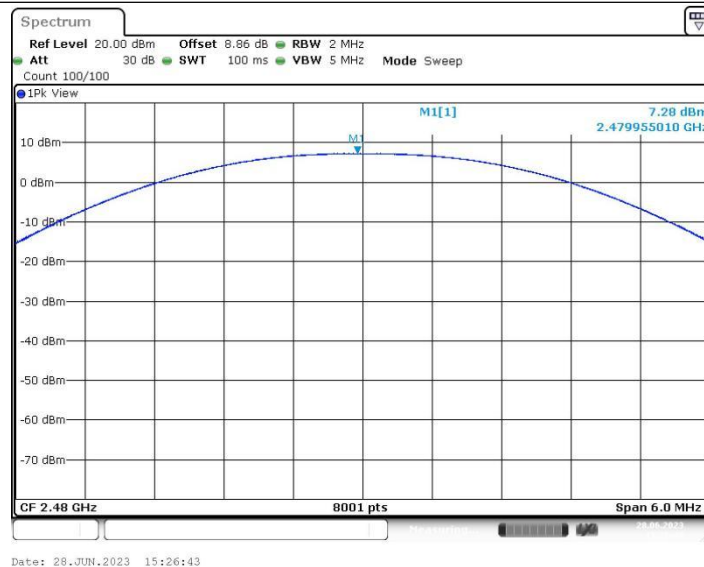
Test Result Average

Test Mode	Antenna	Freq (MHz)	Conducted Sensor power[dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
BLE_1M	Ant1	2402	4.18	84.00	0.76	4.94	≤30.00	1.35	6.29	≤36.00	PASS
		2440	4.70	84.00	0.76	5.46	≤30.00	1.35	6.81	≤36.00	PASS
		2480	4.74	84.00	0.76	5.50	≤30.00	1.35	6.85	≤36.00	PASS
BLE_2M	Ant1	2402	2.80	56.91	2.45	5.25	≤30.00	1.35	6.60	≤36.00	PASS
		2440	3.38	56.91	2.45	5.83	≤30.00	1.35	7.18	≤36.00	PASS
		2480	3.39	56.91	2.45	5.84	≤30.00	1.35	7.19	≤36.00	PASS

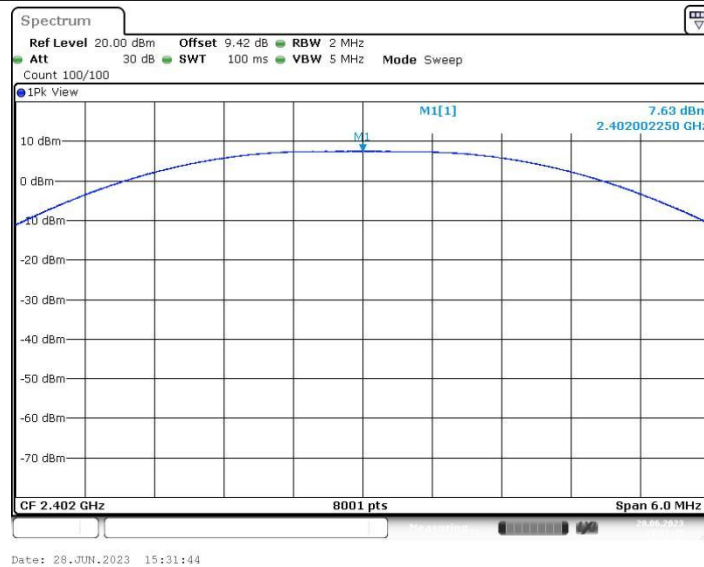


Test Graphs Peak





BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





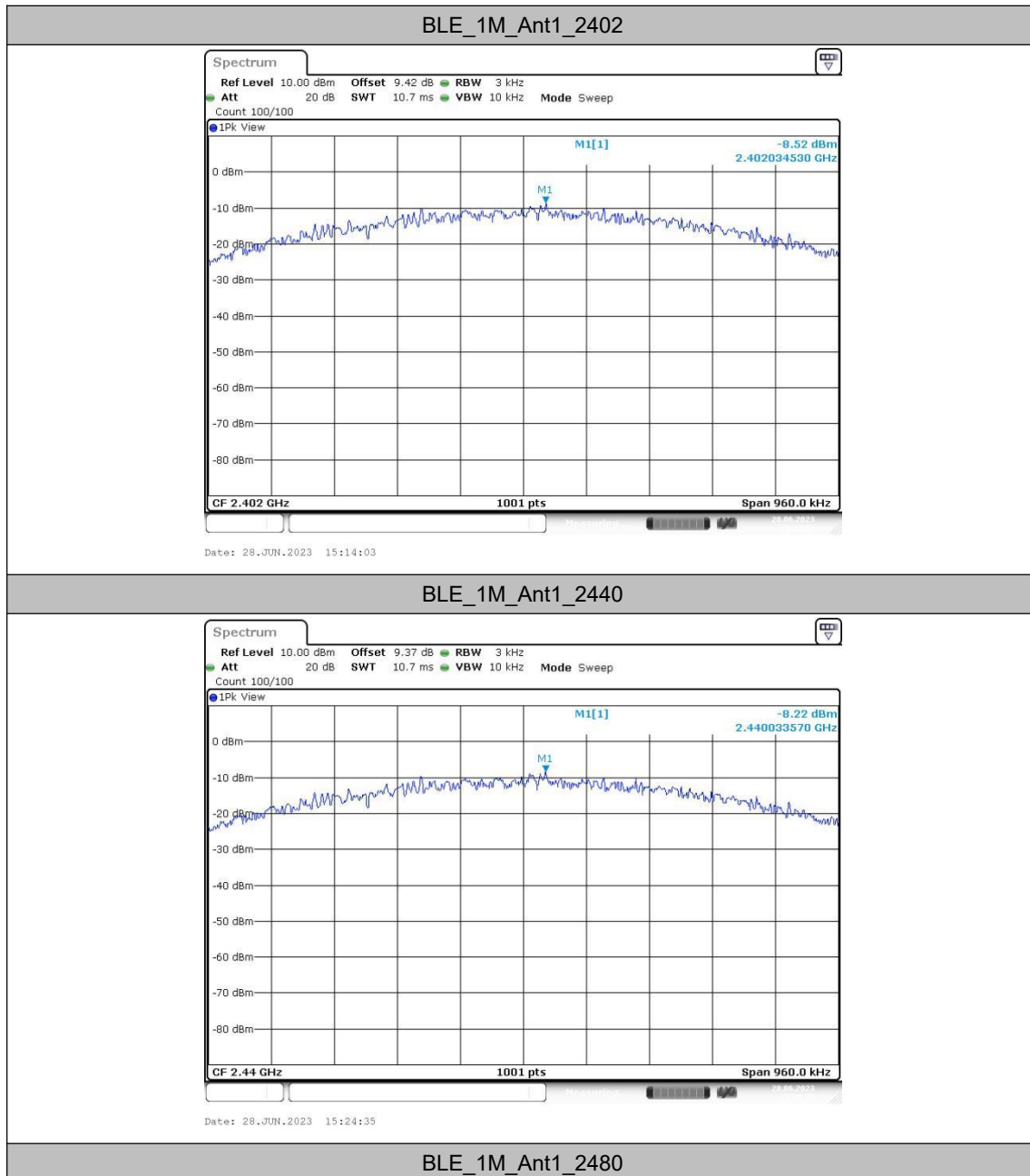
Appendix D: Power Spectral Density

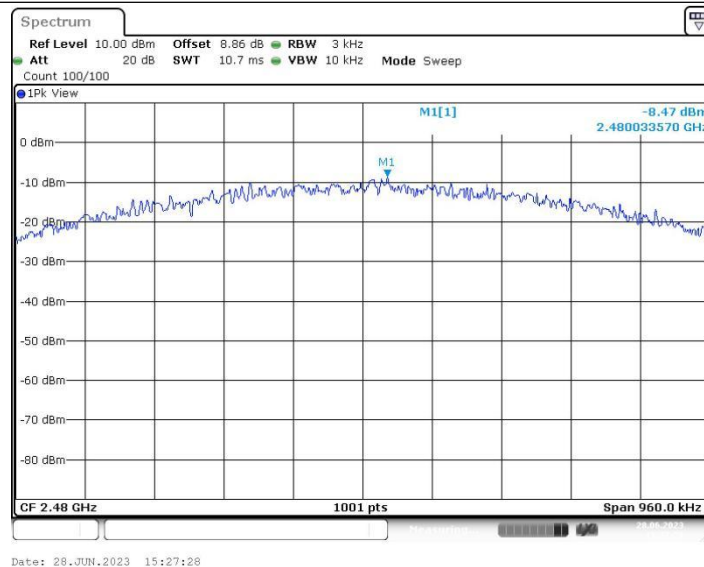
Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.52	≤8.00	PASS
		2440	-8.22	≤8.00	PASS
		2480	-8.47	≤8.00	PASS
BLE_2M	Ant1	2402	-10	≤8.00	PASS
		2440	-9.71	≤8.00	PASS
		2480	-9.84	≤8.00	PASS

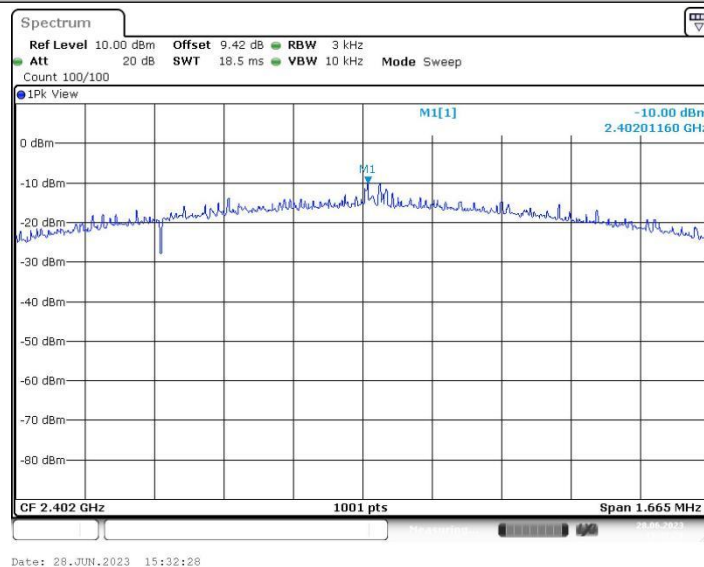


Test Graphs

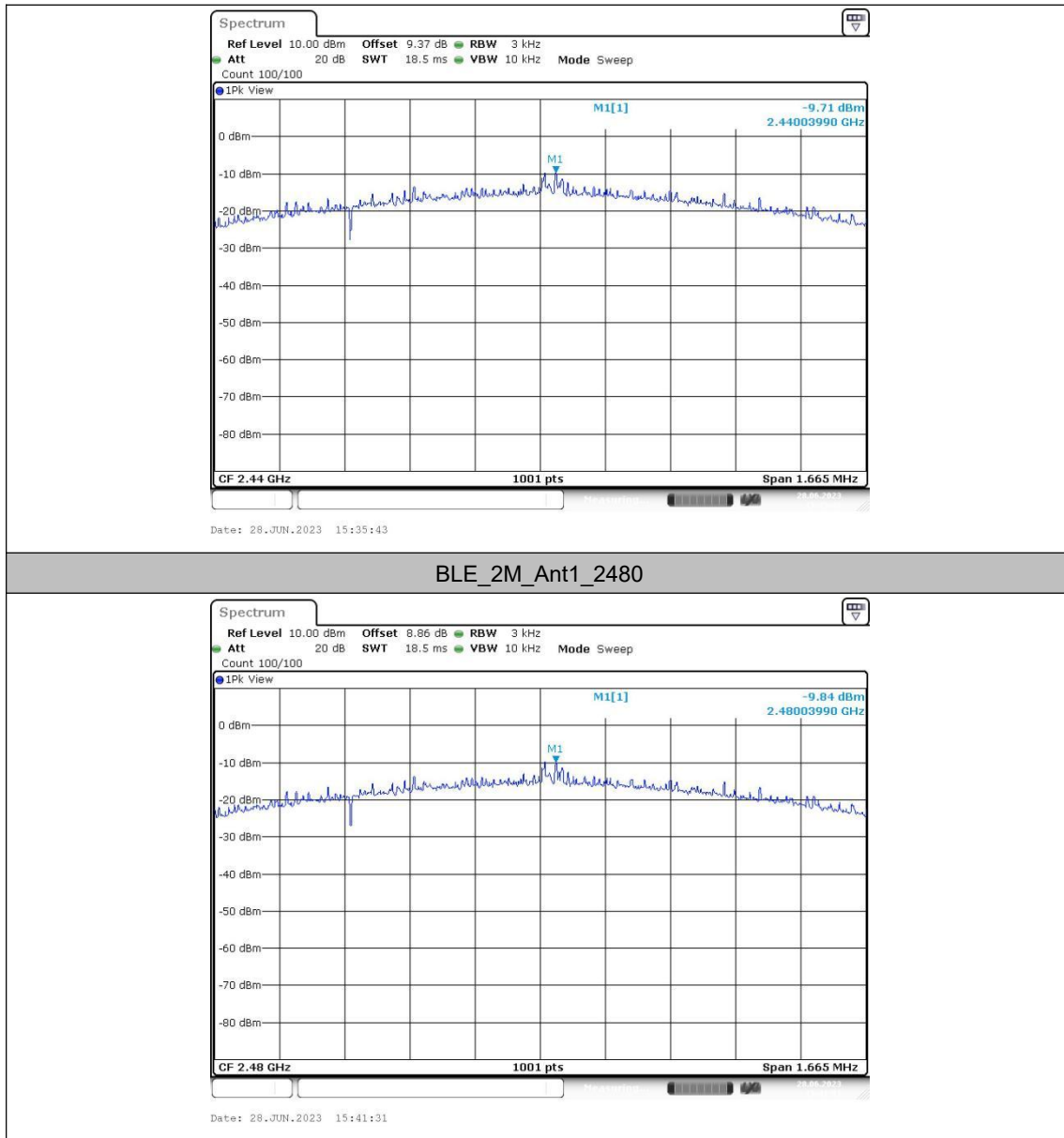




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





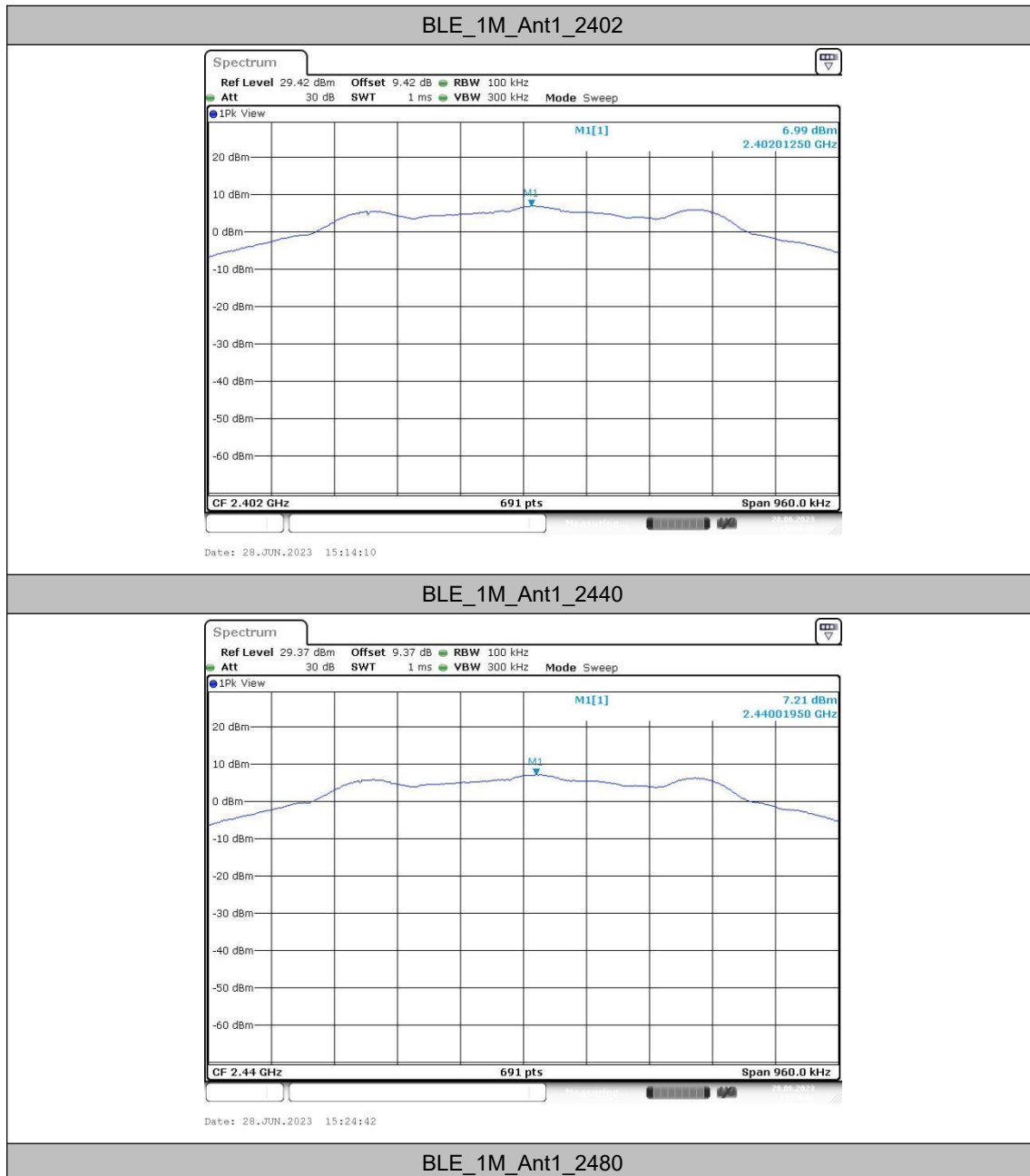
ppendix E: Reference level measurement

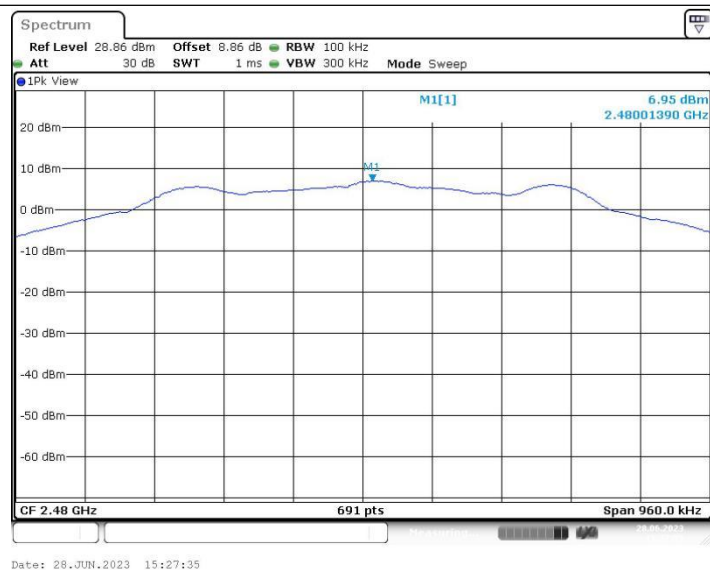
Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2402.01	6.99
		2440	2440.02	7.21
		2480	2480.01	6.95
BLE_2M	Ant1	2402	2402.02	7.39
		2440	2440.02	7.69
		2480	2480.02	7.47

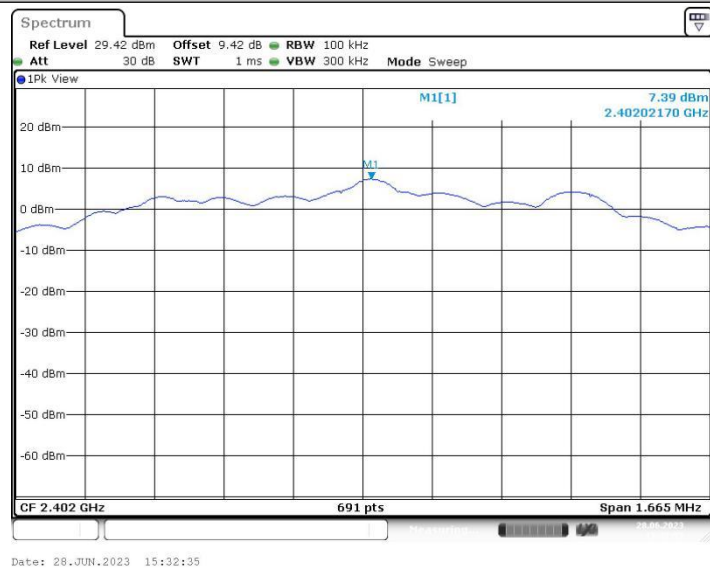


Test Graphs

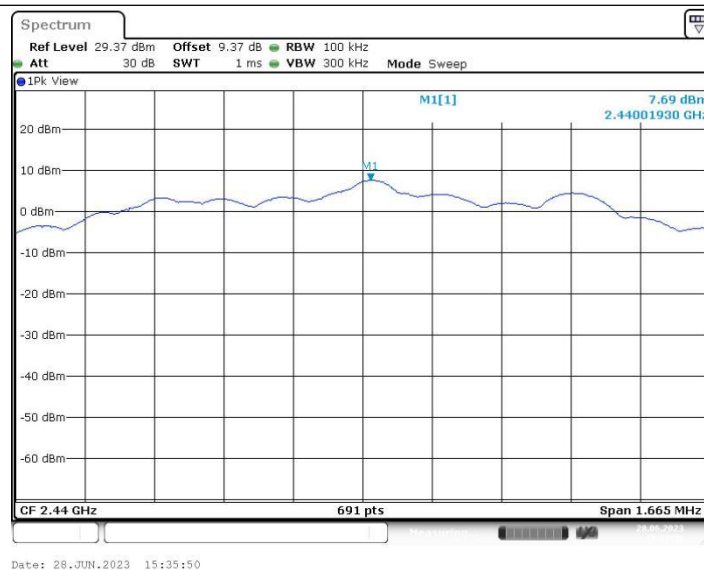




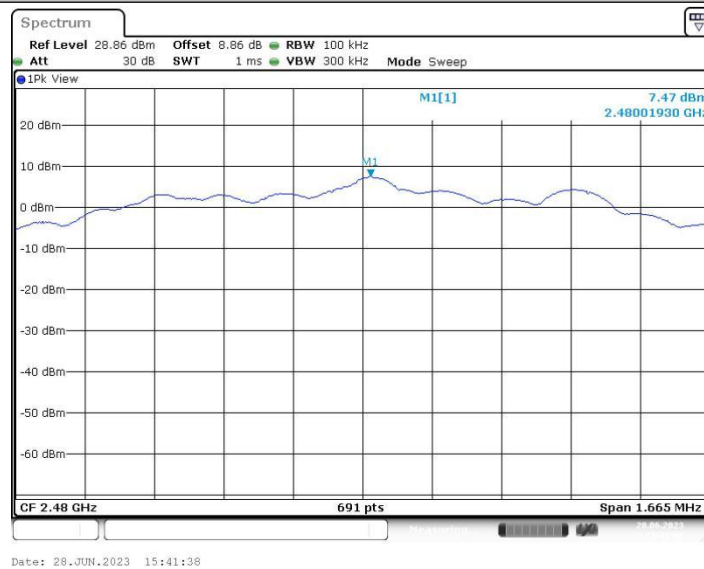
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480





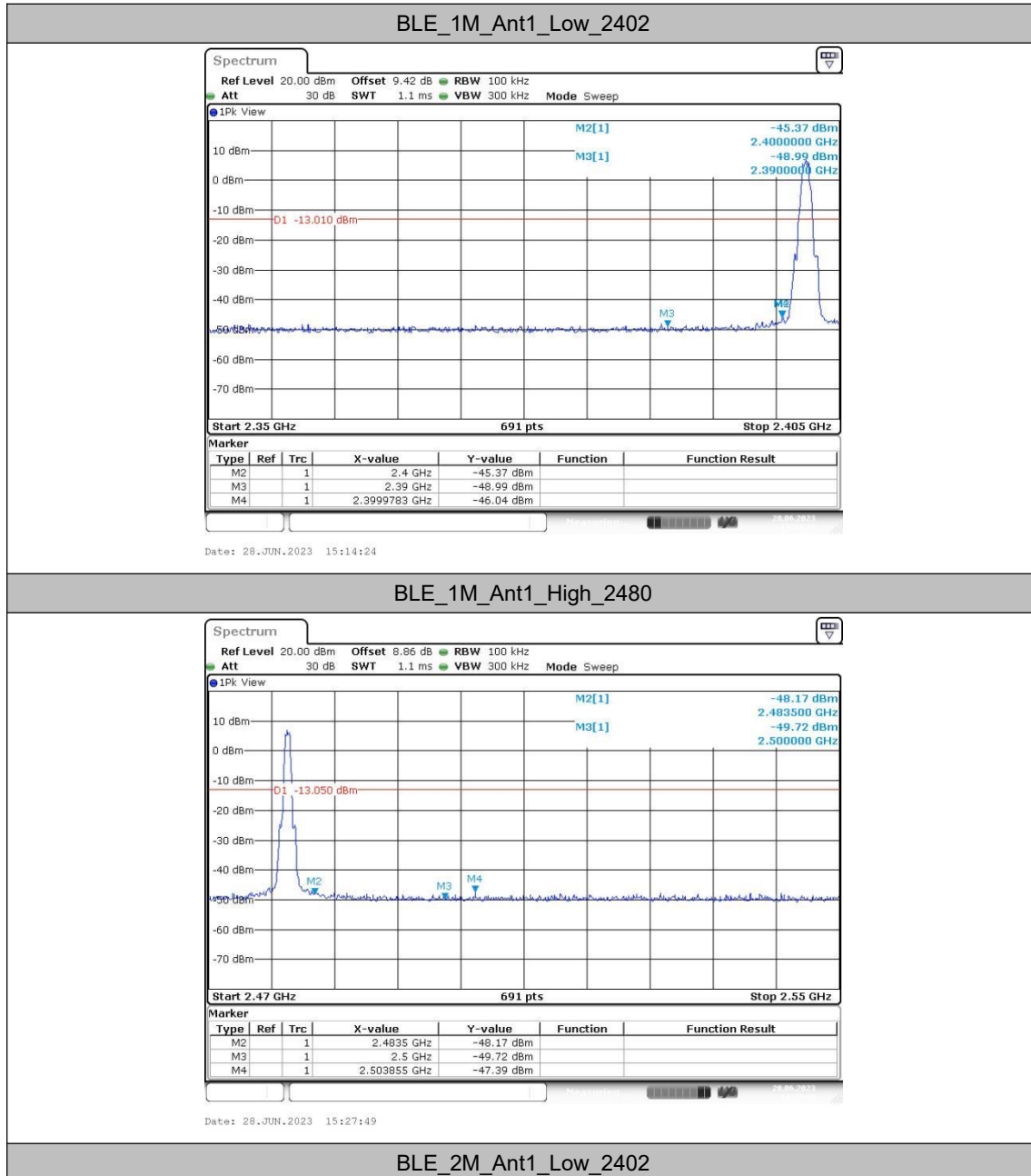
Appendix F: Band edge measurements

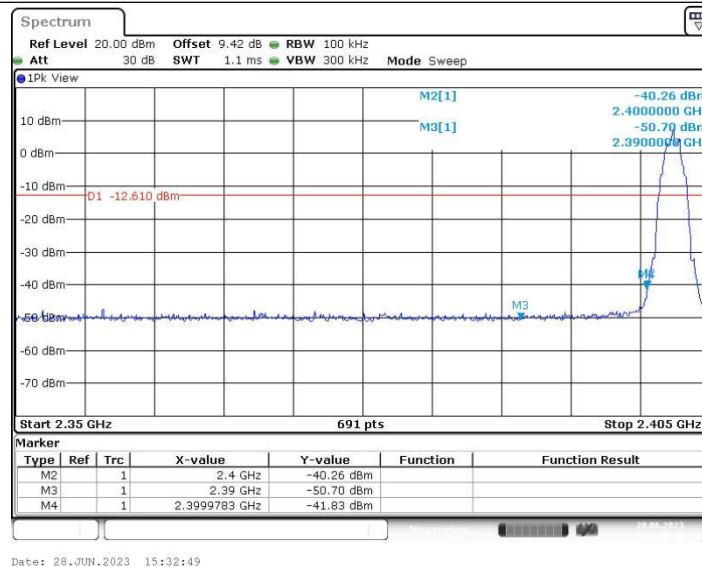
Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	6.99	-46.04	≤ -13.01	PASS
		High	2480	6.95	-47.39	≤ -13.05	PASS
BLE_2M	Ant1	Low	2402	7.39	-41.83	≤ -12.61	PASS
		High	2480	7.47	-47.57	≤ -12.53	PASS

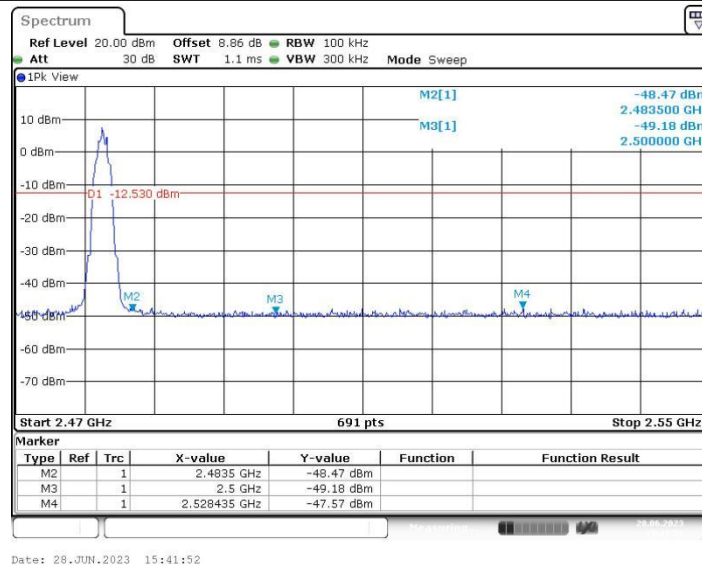


Test Graphs





BLE_2M_Ant1_High_2480





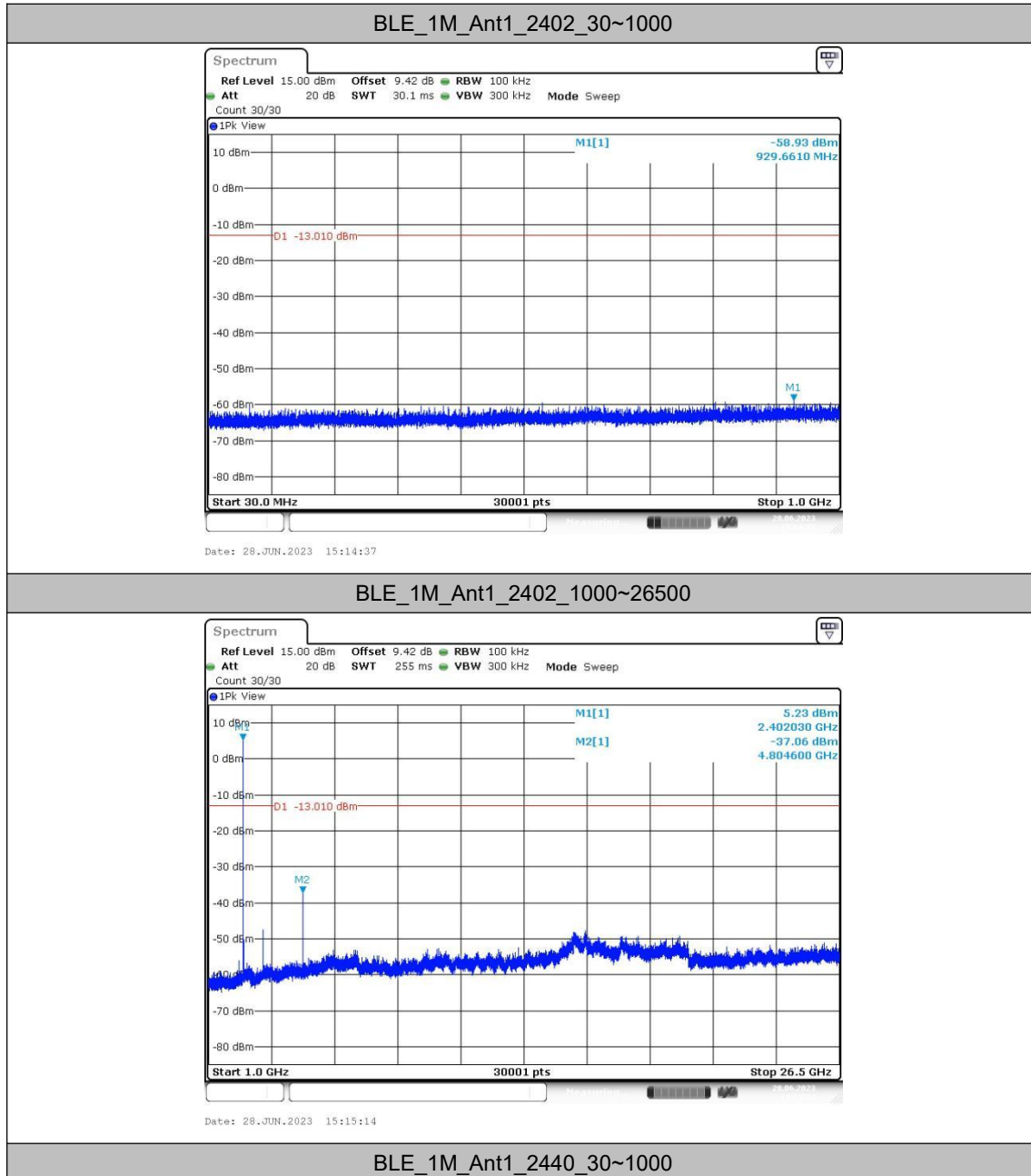
Appendix G: Conducted Spurious Emission

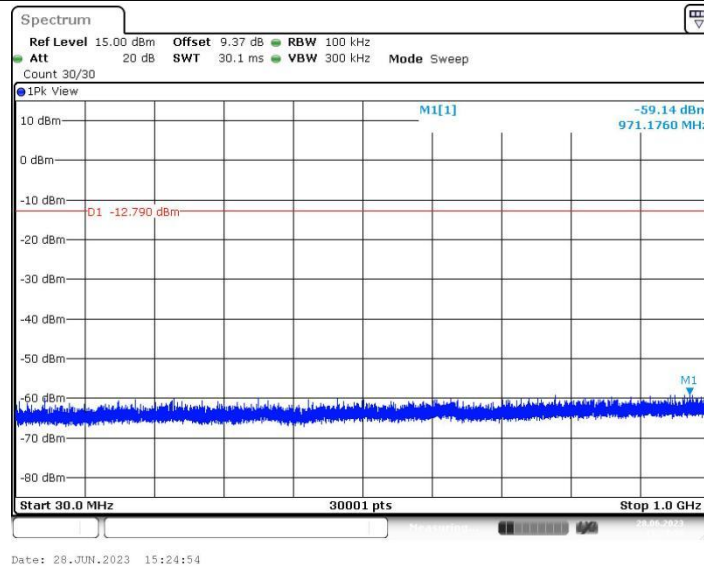
Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~1000	6.99	-58.93	≤-13.01	PASS
			1000~26500	6.99	-37.06	≤-13.01	PASS
		2440	30~1000	7.21	-59.14	≤-12.79	PASS
			1000~26500	7.21	-35.16	≤-12.79	PASS
		2480	30~1000	6.95	-59.55	≤-13.05	PASS
			1000~26500	6.95	-39.69	≤-13.05	PASS
BLE_2M	Ant1	2402	30~1000	7.39	-59.31	≤-12.61	PASS
			1000~26500	7.39	-35.36	≤-12.61	PASS
		2440	30~1000	7.69	-58.6	≤-12.31	PASS
			1000~26500	7.69	-37.88	≤-12.31	PASS
		2480	30~1000	7.47	-59.73	≤-12.53	PASS
			1000~26500	7.47	-40.9	≤-12.53	PASS

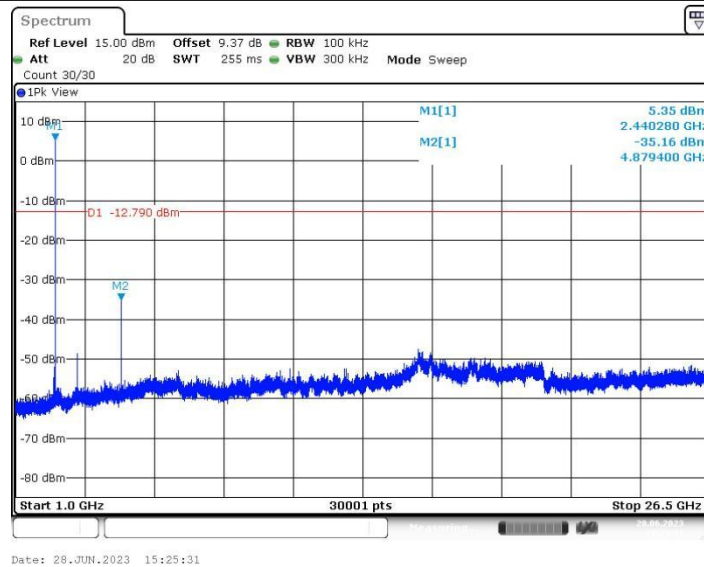


Test Graphs

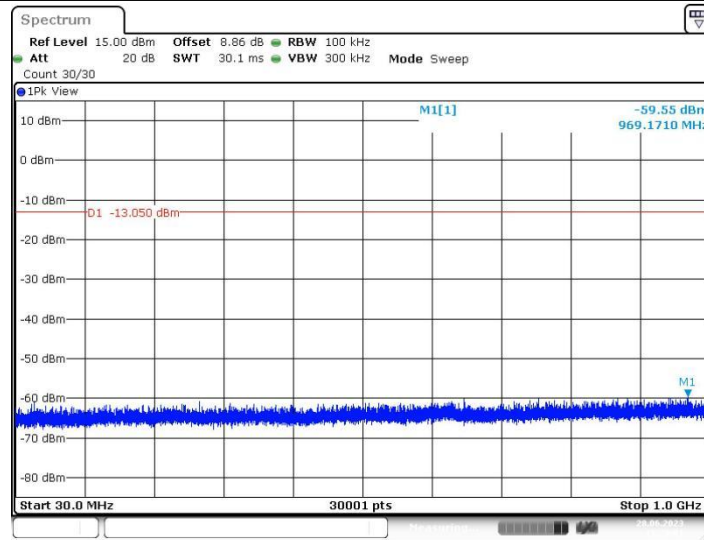




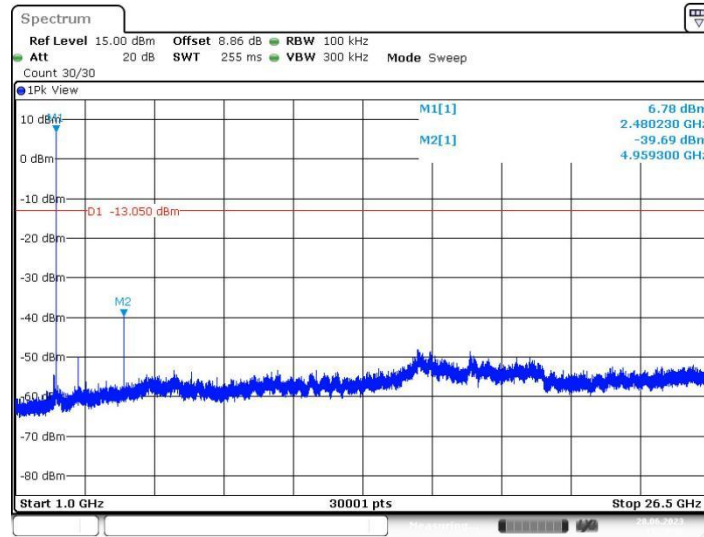
BLE_1M_Ant1_2440_1000~26500



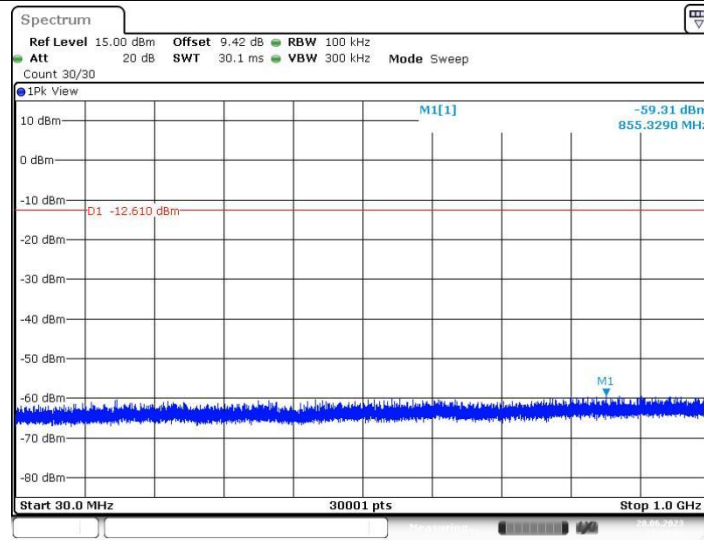
BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

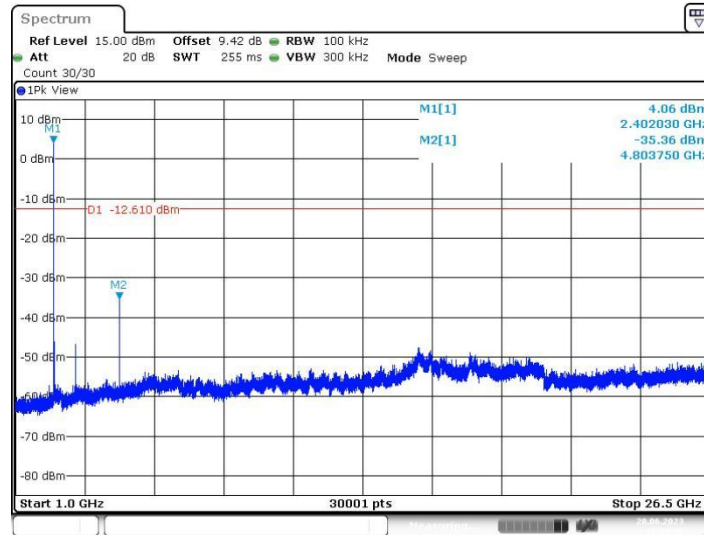


BLE_2M_Ant1_2402_30~1000



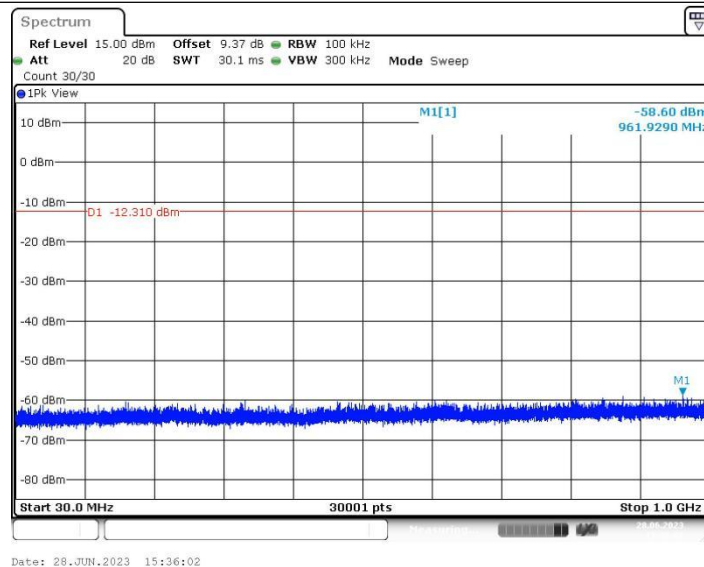
Date: 28.JUN.2023 15:33:01

BLE_2M_Ant1_2402_1000~26500

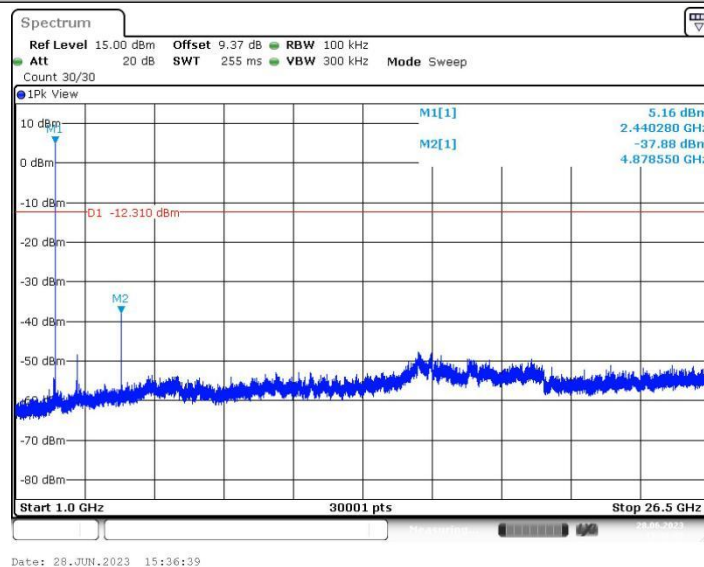


Date: 28.JUN.2023 15:33:38

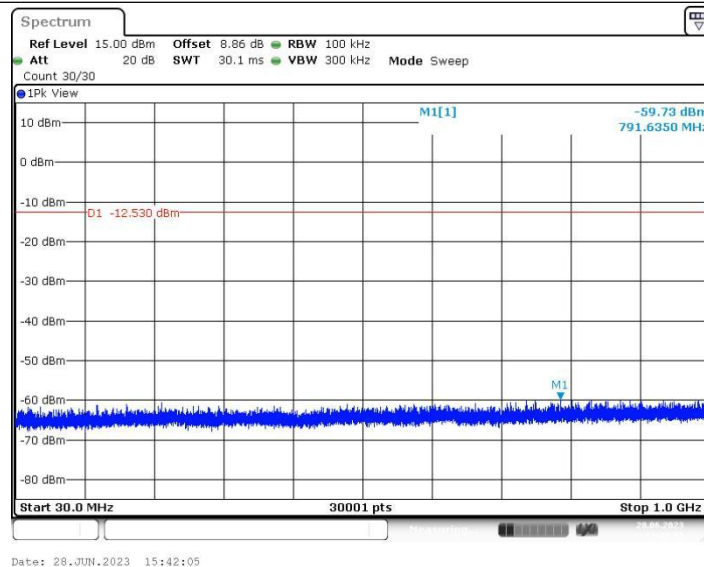
BLE_2M_Ant1_2440_30~1000



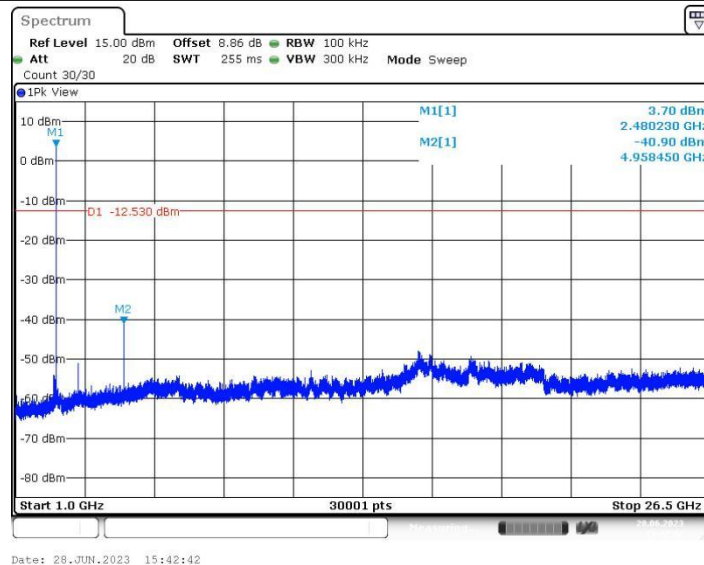
BLE_2M_Ant1_2440_1000~26500



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500





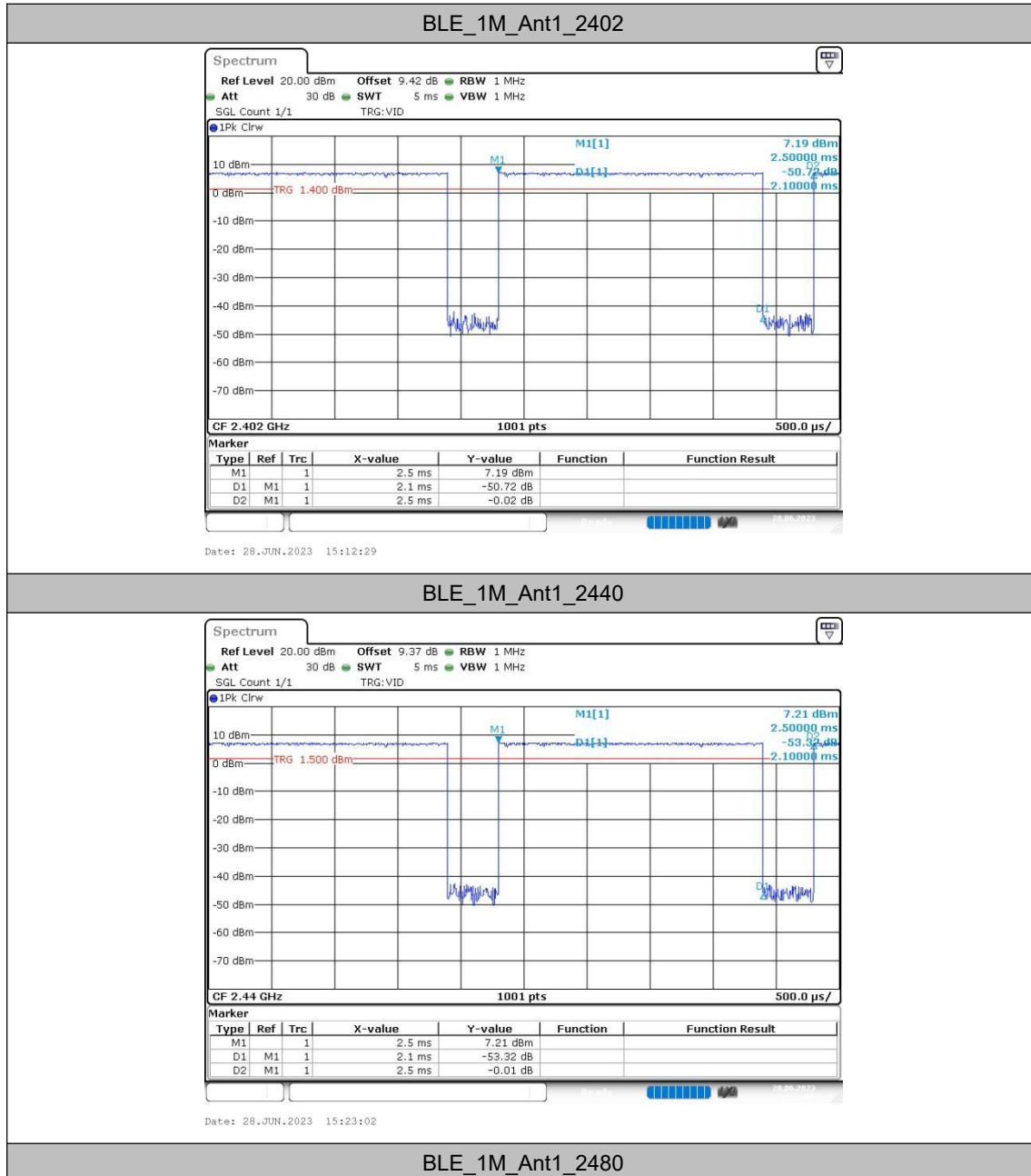
Appendix H: Duty Cycle

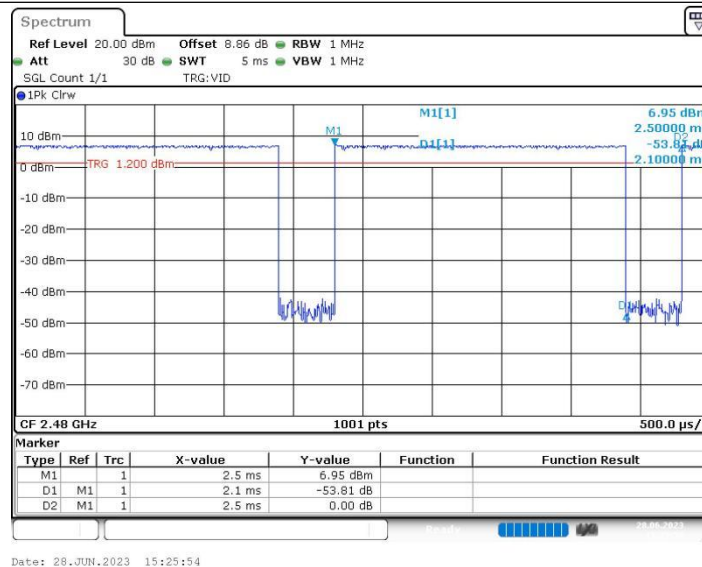
Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	2.10	2.50	0.8400	84.00	0.76	---	---
		2440	2.10	2.50	0.8400	84.00	0.76	---	---
		2480	2.10	2.50	0.8400	84.00	0.76	---	---
BLE_2M	Ant1	2402	1.07	1.88	0.5691	56.91	2.45	---	---
		2440	1.07	1.88	0.5691	56.91	2.45	---	---
		2480	1.07	1.88	0.5691	56.91	2.45	---	---

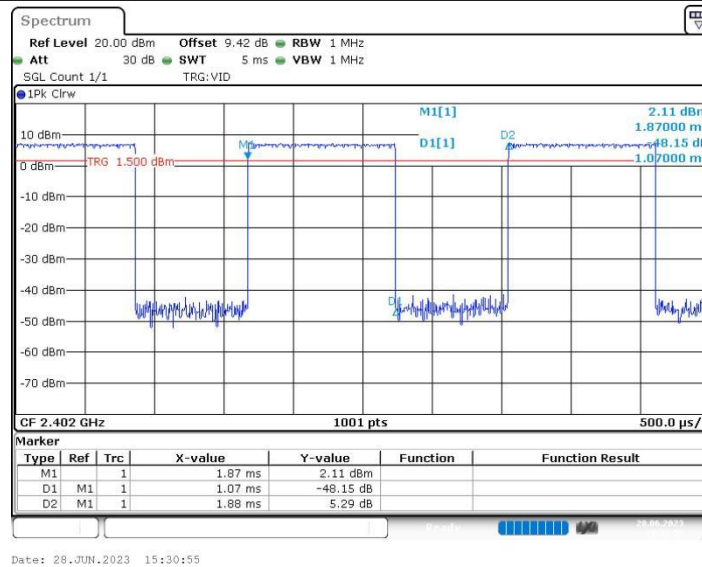


Test Graphs

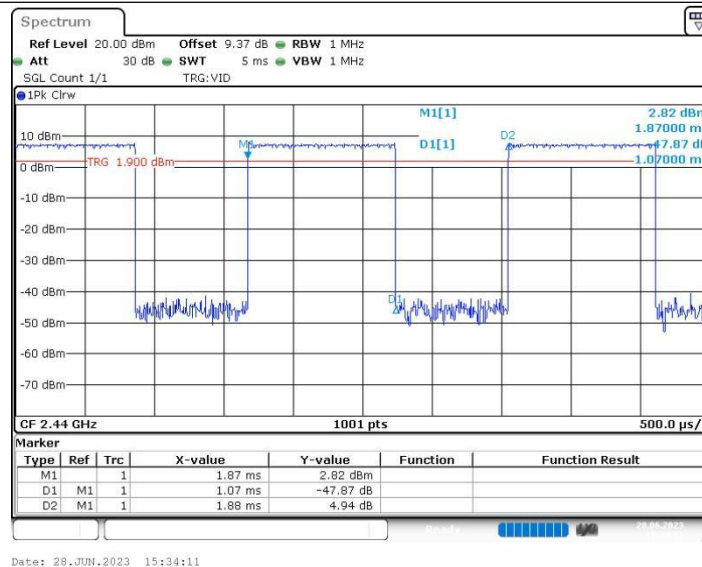




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

