



Appendix A: DTS Bandwidth

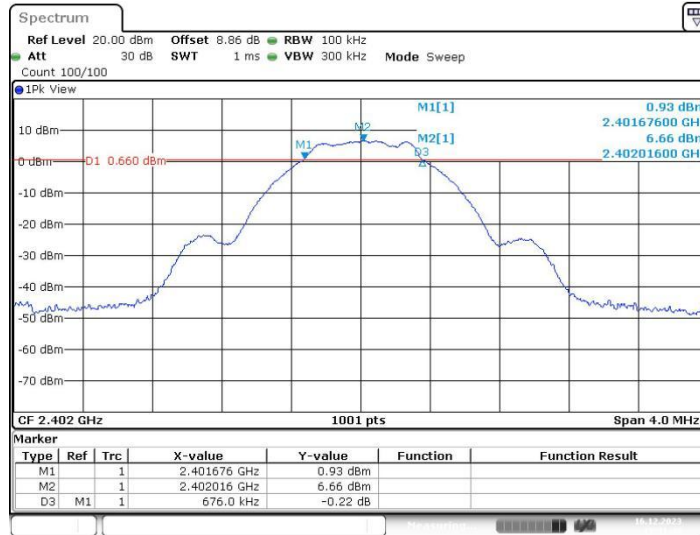
Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.68	2401.68	2402.35	0.5	PASS
		2440	0.68	2439.68	2440.36	0.5	PASS
		2480	0.68	2479.68	2480.35	0.5	PASS
BLE_2M	Ant1	2402	1.34	2401.34	2402.68	0.5	PASS
		2440	1.34	2439.34	2440.68	0.5	PASS
		2480	1.35	2479.34	2480.68	0.5	PASS

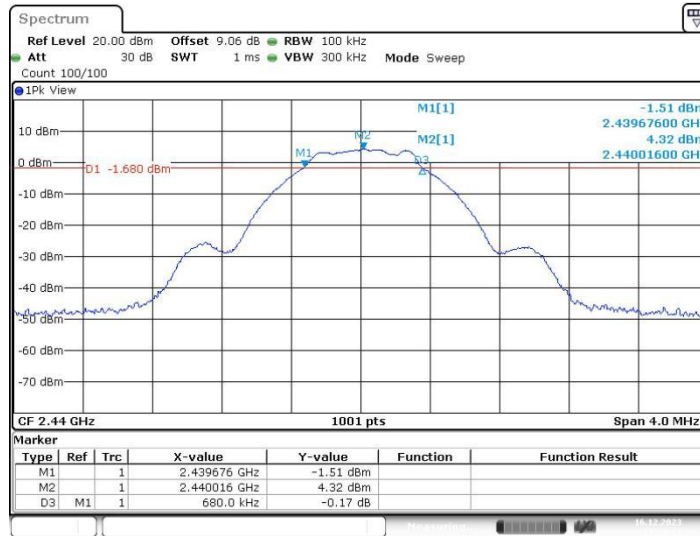


Test Graphs

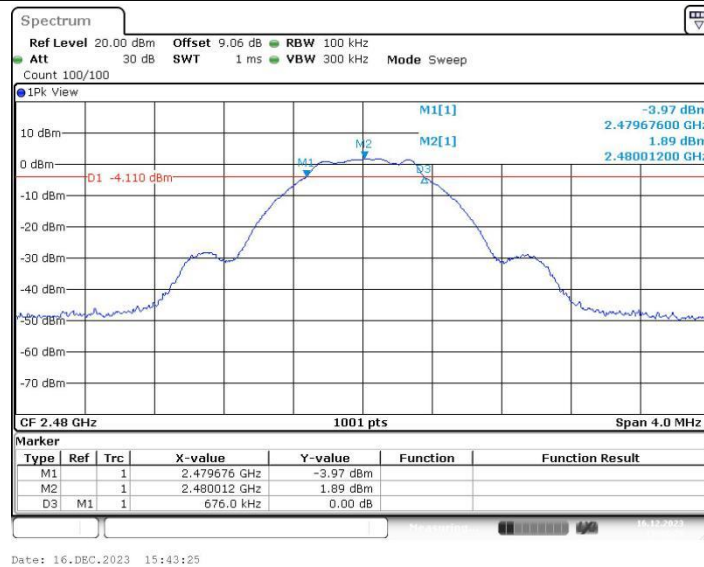
BLE_1M_Ant1_2402



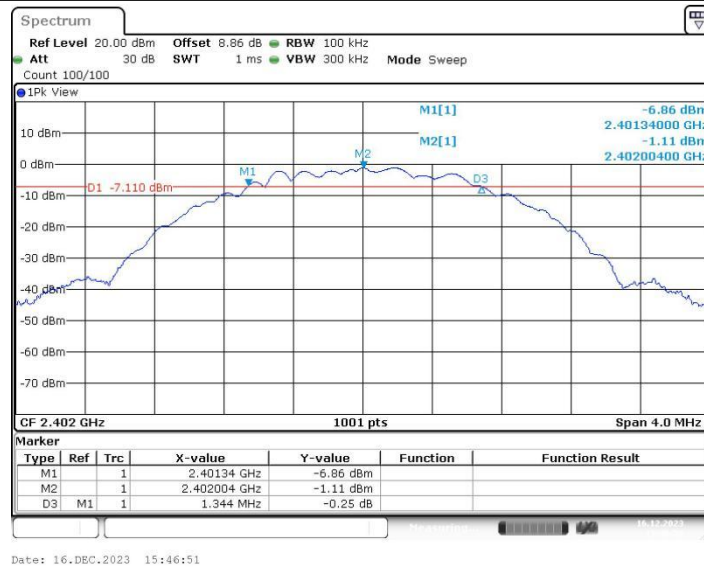
BLE_1M_Ant1_2440



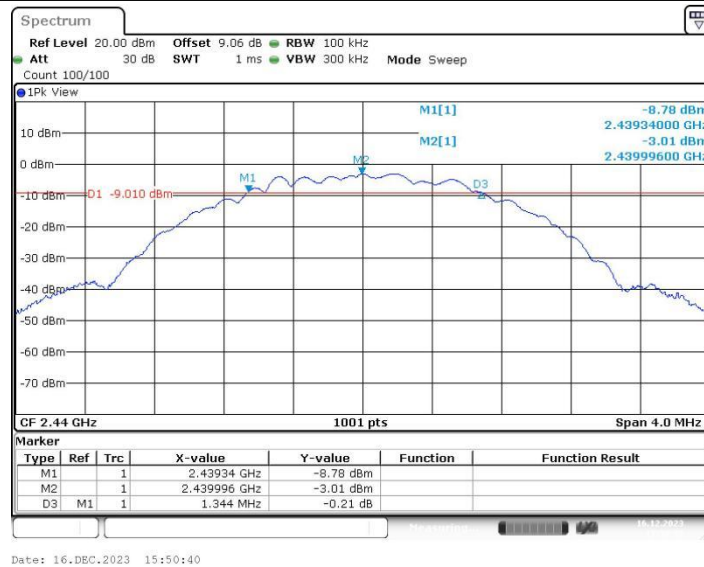
BLE_1M_Ant1_2480



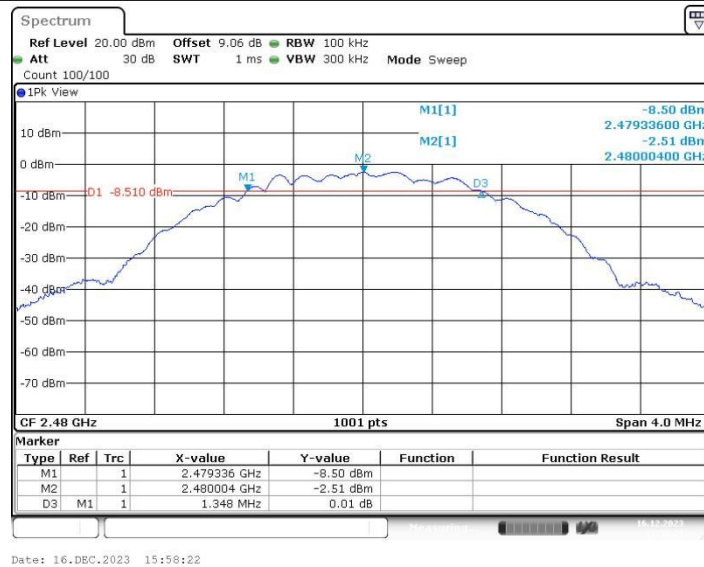
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480





Appendix B: Occupied Channel Bandwidth

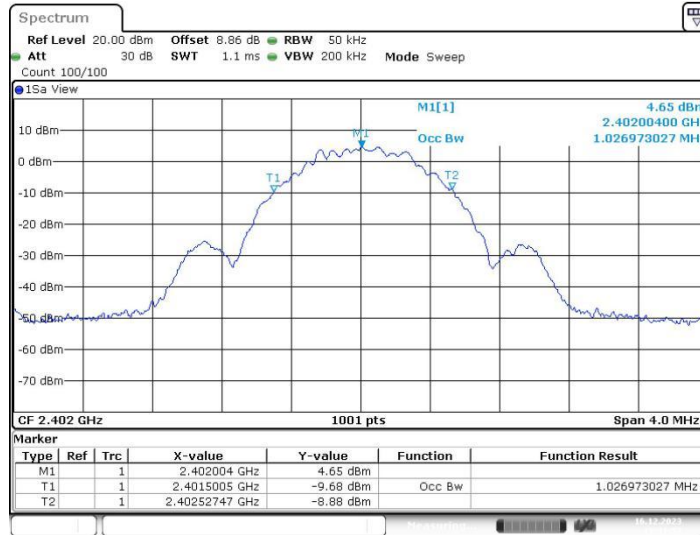
Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.027	2401.5005	2402.5275	---	---
		2440	1.027	2439.5005	2440.5275	---	---
		2480	1.027	2479.5005	2480.5275	---	---
BLE_2M	Ant1	2402	2.042	2401.0010	2403.0430	---	---
		2440	2.042	2439.0010	2441.0430	---	---
		2480	2.042	2479.0010	2481.0430	---	---

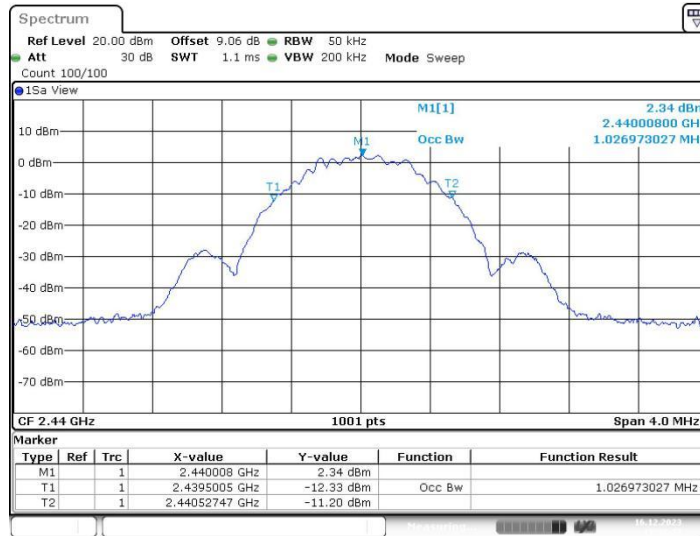


Test Graphs

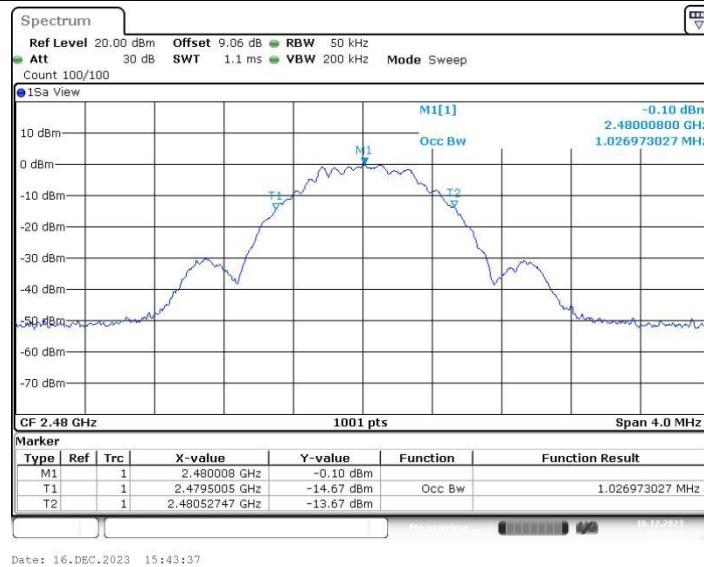
BLE_1M_Ant1_2402



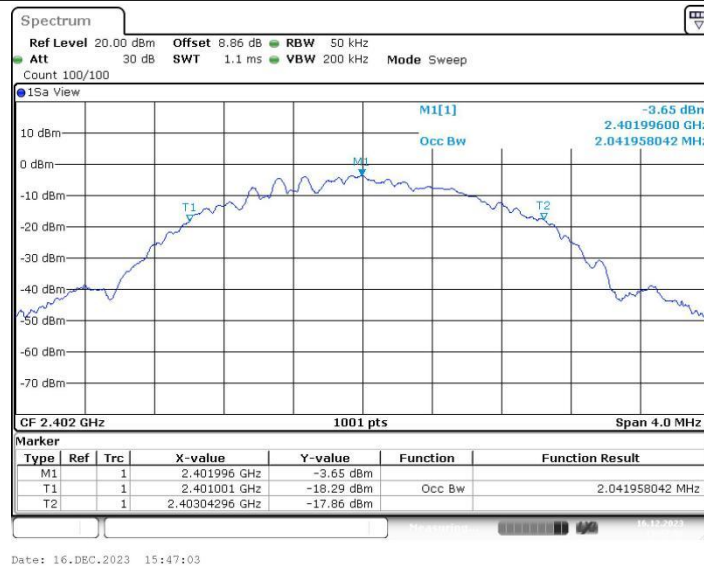
BLE_1M_Ant1_2440



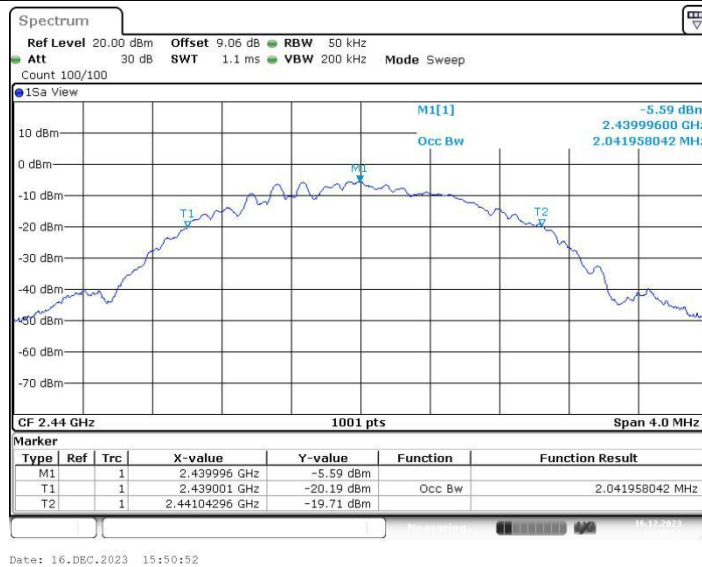
BLE_1M_Ant1_2480



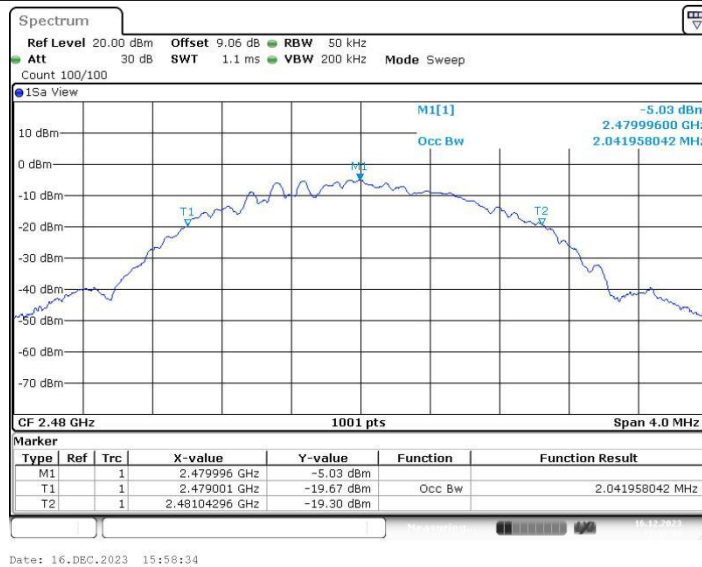
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480





Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	8.13	≤30	10.94	≤36	PASS
		2440	5.83	≤30	8.64	≤36	PASS
		2480	3.42	≤30	6.23	≤36	PASS
BLE_2M	Ant1	2402	5.37	≤30	8.18	≤36	PASS
		2440	3.16	≤30	5.97	≤36	PASS
		2480	0.85	≤30	3.66	≤36	PASS

Test Result Average

Test Mode	Antenna	Freq(MHz)	Conducted Sensor power[dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
BLE_1M	Ant1	2402	6.62	≤30.00	2.81	9.43	≤36.00	PASS
		2440	4.09	≤30.00	2.81	6.90	≤36.00	PASS
		2480	1.22	≤30.00	2.81	4.03	≤36.00	PASS
BLE_2M	Ant1	2402	4.06	≤30.00	2.81	6.87	≤36.00	PASS
		2440	1.72	≤30.00	2.81	4.53	≤36.00	PASS
		2480	-1.03	≤30.00	2.81	1.78	≤36.00	PASS



Appendix D: Maximum power spectral density

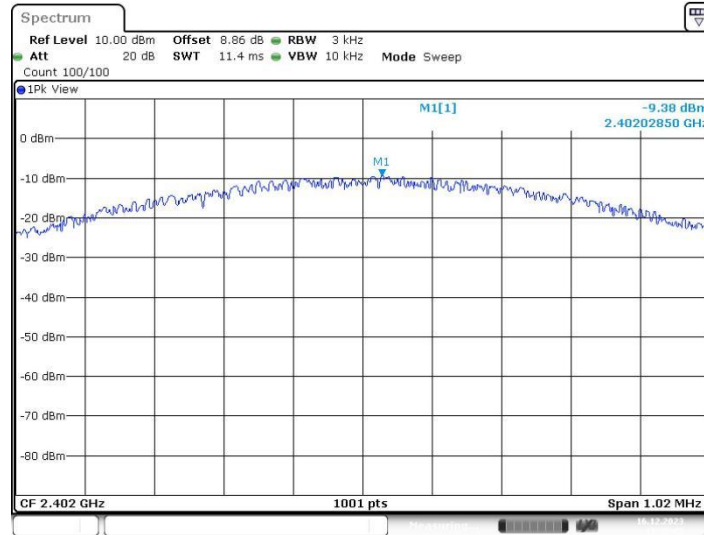
Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.38	≤8.00	PASS
		2440	-11.7	≤8.00	PASS
		2480	-14	≤8.00	PASS
BLE_2M	Ant1	2402	-17.22	≤8.00	PASS
		2440	-19.45	≤8.00	PASS
		2480	-21.42	≤8.00	PASS

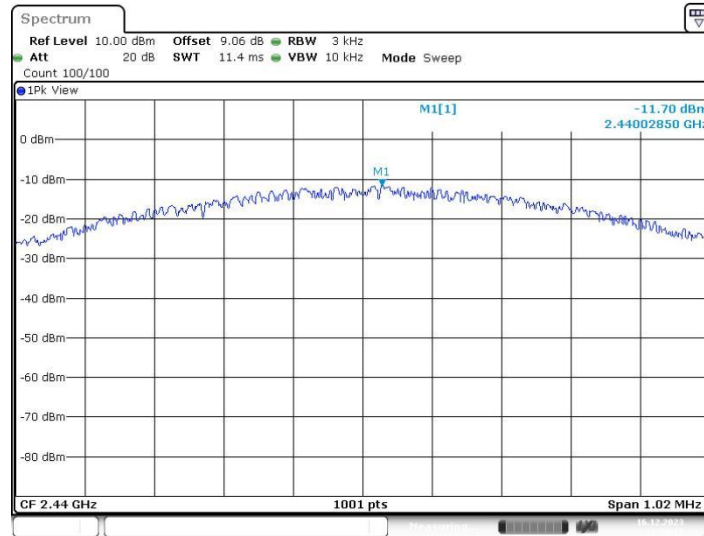


Test Graphs

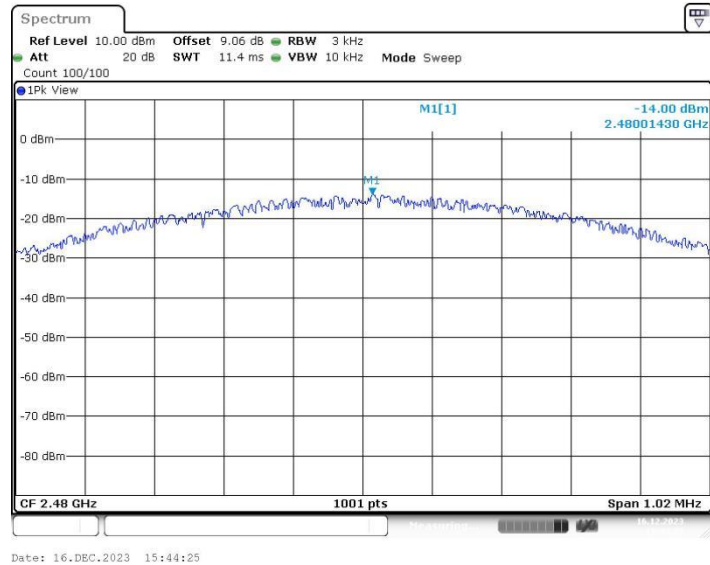
BLE_1M_Ant1_2402



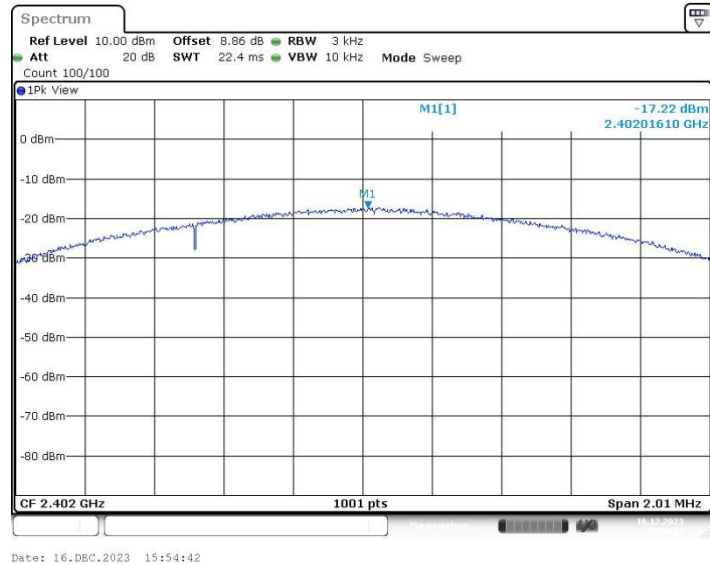
BLE_1M_Ant1_2440



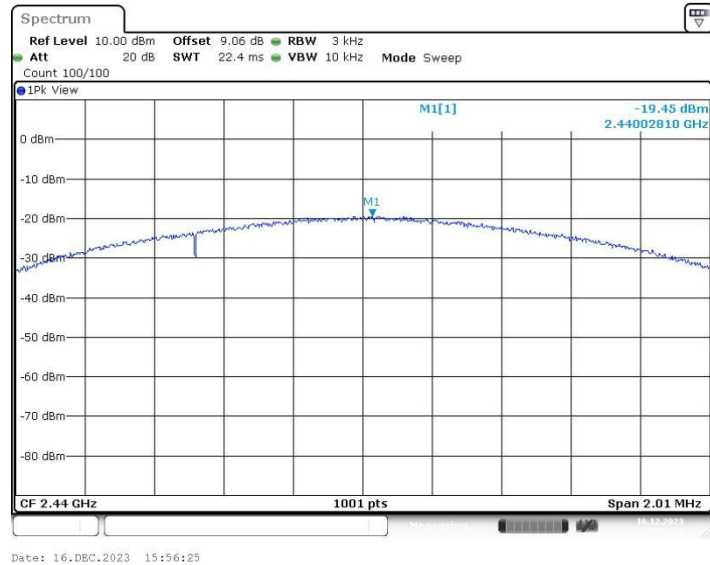
BLE_1M_Ant1_2480



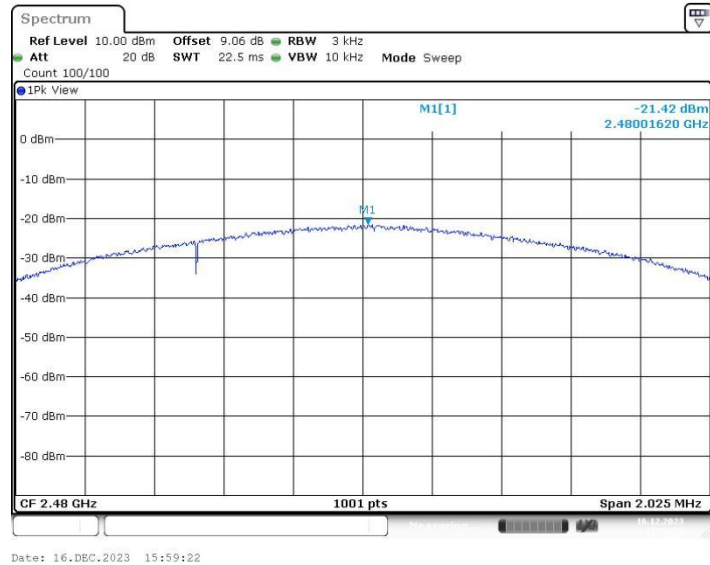
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480





ppendix E: Reference level measurement

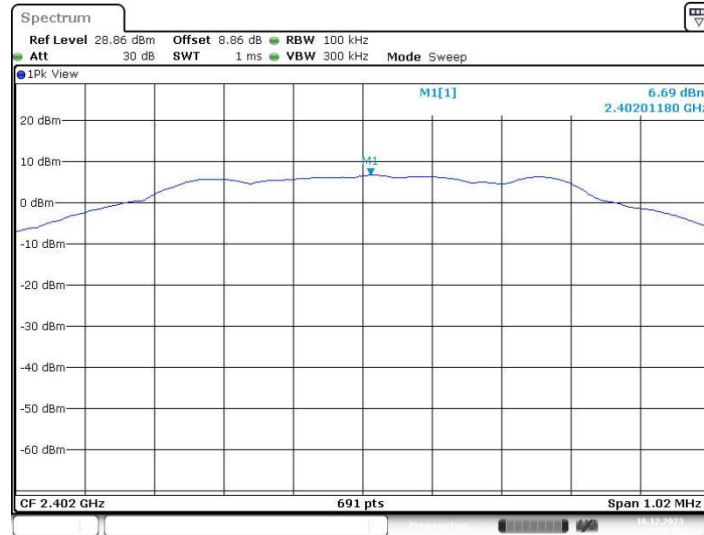
Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2402.01	6.69
		2440	2440.02	4.38
		2480	2480.02	2.02
BLE_2M	Ant1	2402	2402.00	-1.12
		2440	2440.00	-3.00
		2480	2480.00	-2.45



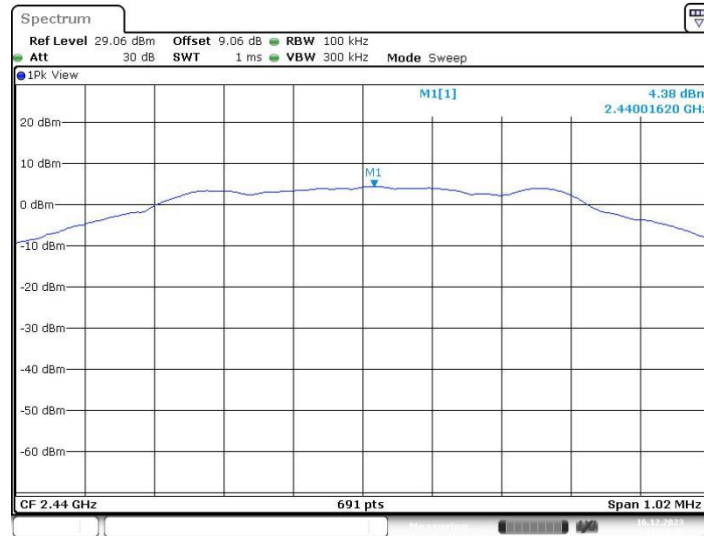
Test Graphs

BLE_1M_Ant1_2402



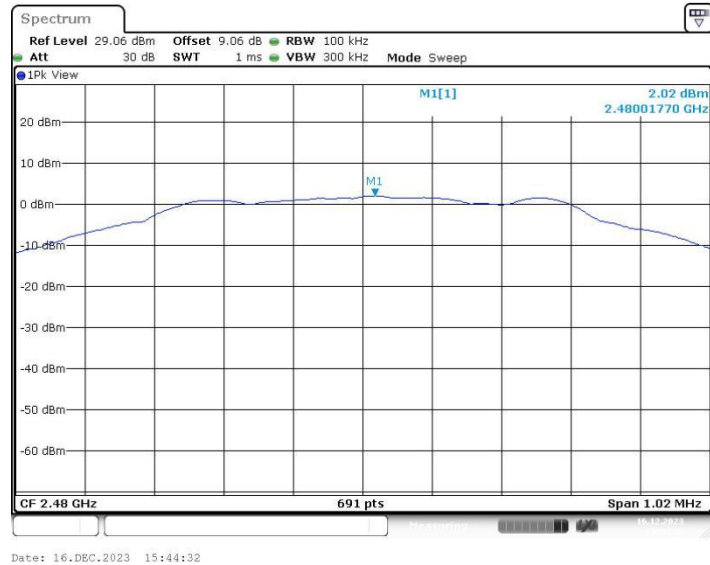
Date: 16.DEC.2023 15:32:53

BLE_1M_Ant1_2440

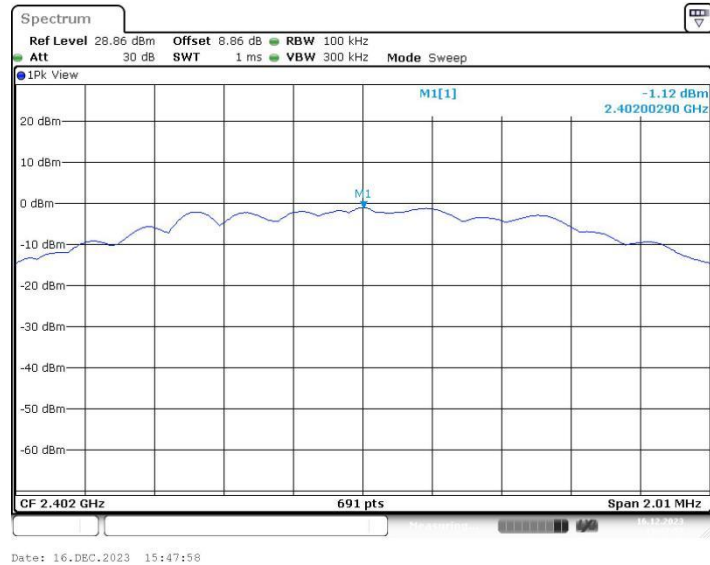


Date: 16.DEC.2023 15:39:23

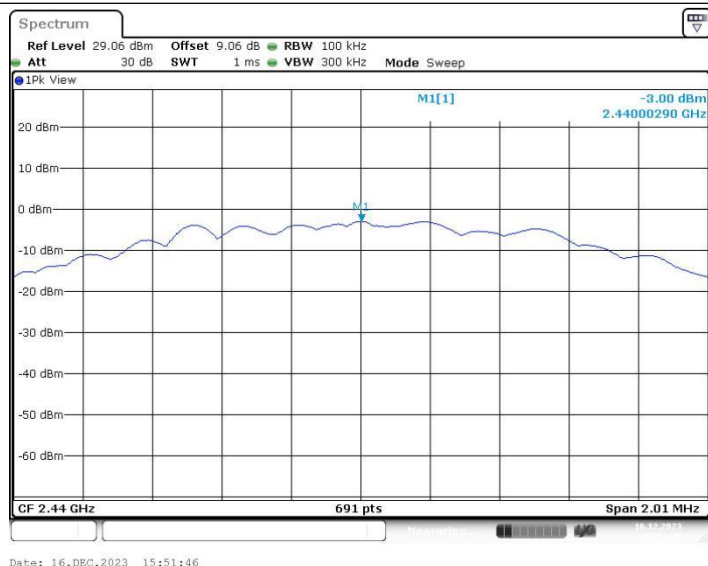
BLE_1M_Ant1_2480



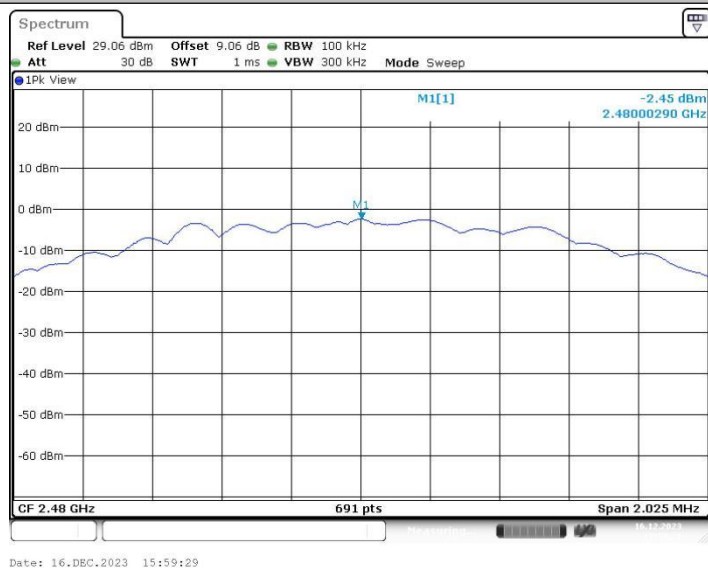
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480





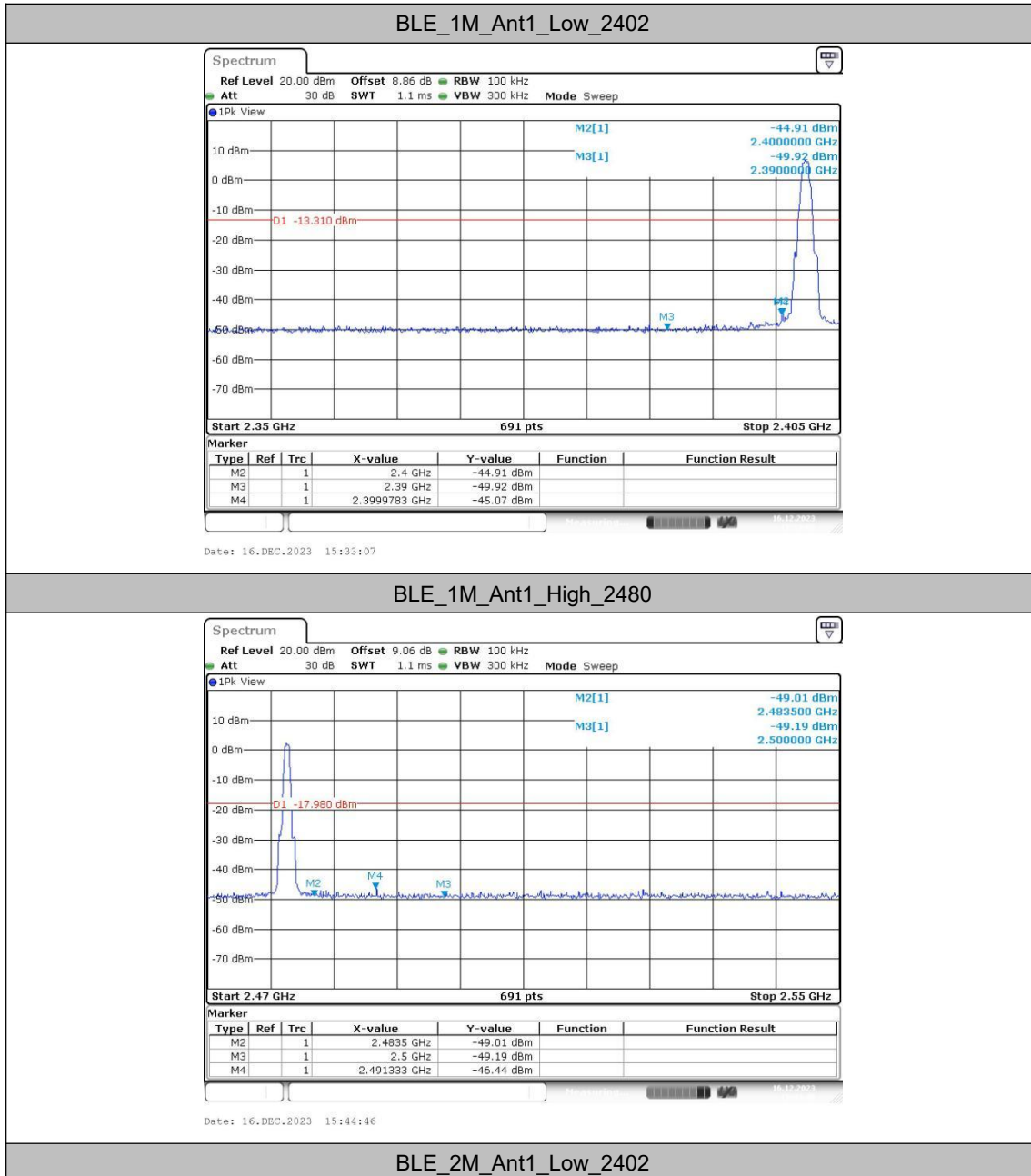
Appendix F: Band edge measurements

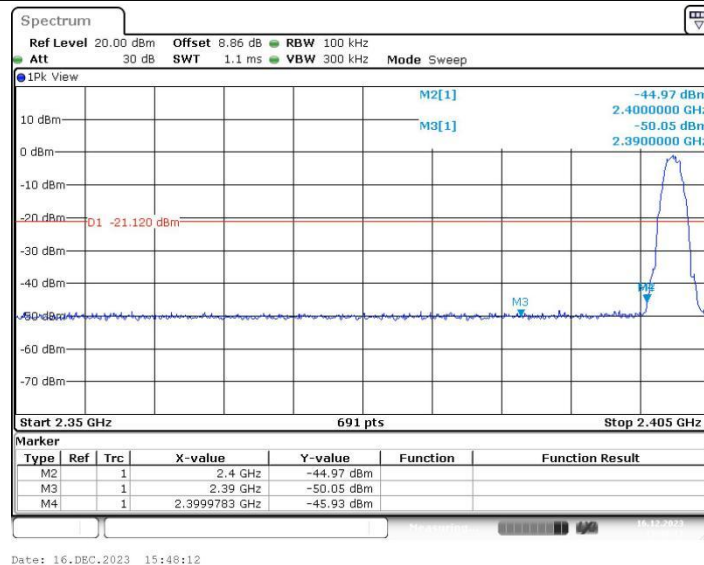
Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	6.69	-45.07	≤-13.31	PASS
		High	2480	2.02	-46.44	≤-17.98	PASS
BLE_2M	Ant1	Low	2402	-1.12	-45.93	≤-21.12	PASS
		High	2480	-2.45	-46.91	≤-22.45	PASS

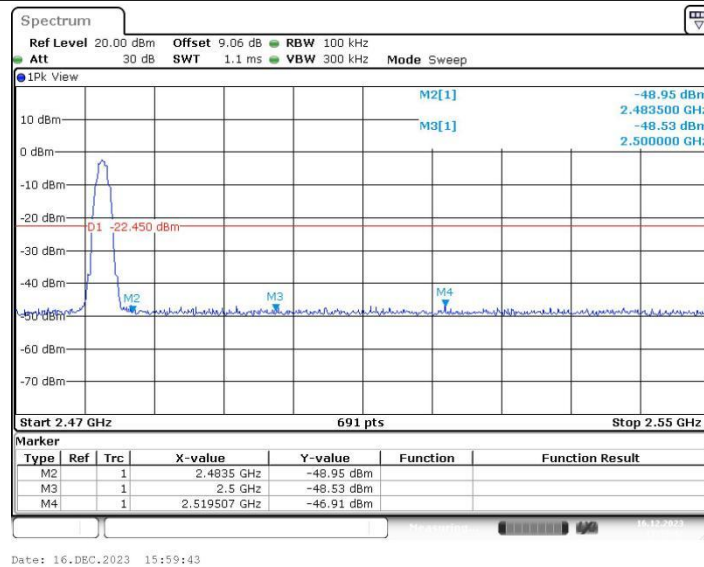


Test Graphs





BLE_2M_Ant1_High_2480





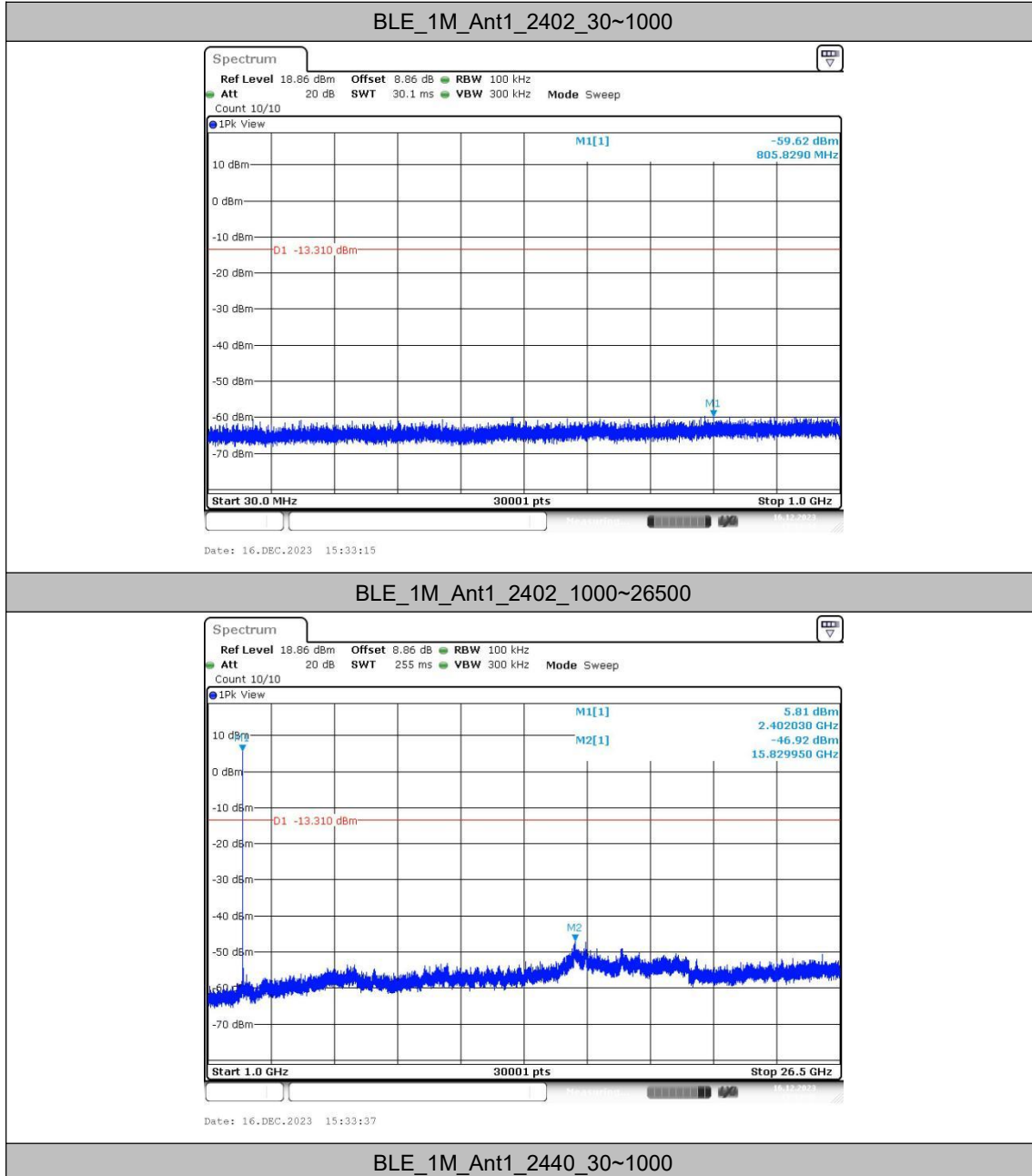
Appendix G: Conducted Spurious Emission

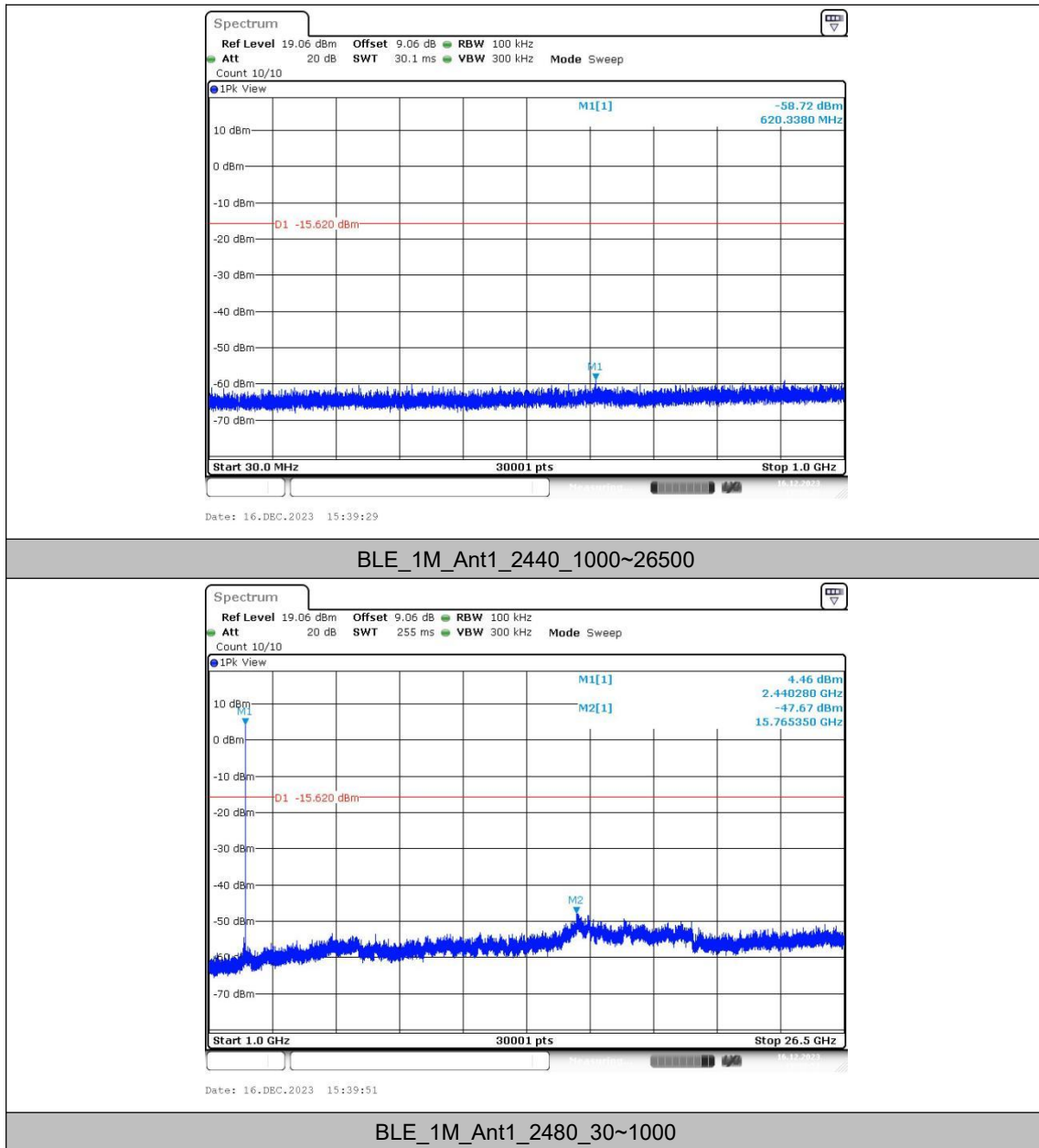
Test Result

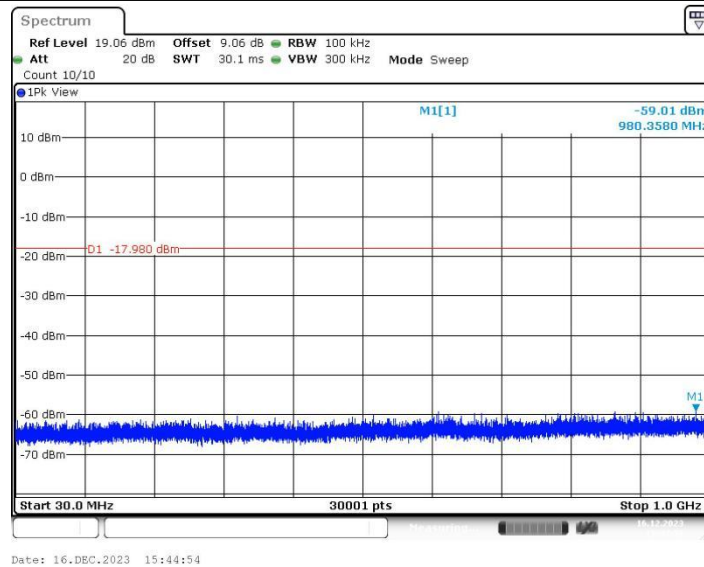
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~1000	6.69	-59.62	≤-13.31	PASS
			1000~26500	6.69	-46.92	≤-13.31	PASS
		2440	30~1000	4.38	-58.72	≤-15.62	PASS
			1000~26500	4.38	-47.67	≤-15.62	PASS
		2480	30~1000	2.02	-59.01	≤-17.98	PASS
			1000~26500	2.02	-48.1	≤-17.98	PASS
BLE_2M	Ant1	2402	30~1000	-1.12	-59.39	≤-21.12	PASS
			1000~26500	-1.12	-47.56	≤-21.12	PASS
		2440	30~1000	-3.00	-59.07	≤-23	PASS
			1000~26500	-3.00	-46.48	≤-23	PASS
		2480	30~1000	-2.45	-58.31	≤-22.45	PASS
			1000~26500	-2.45	-46.59	≤-22.45	PASS



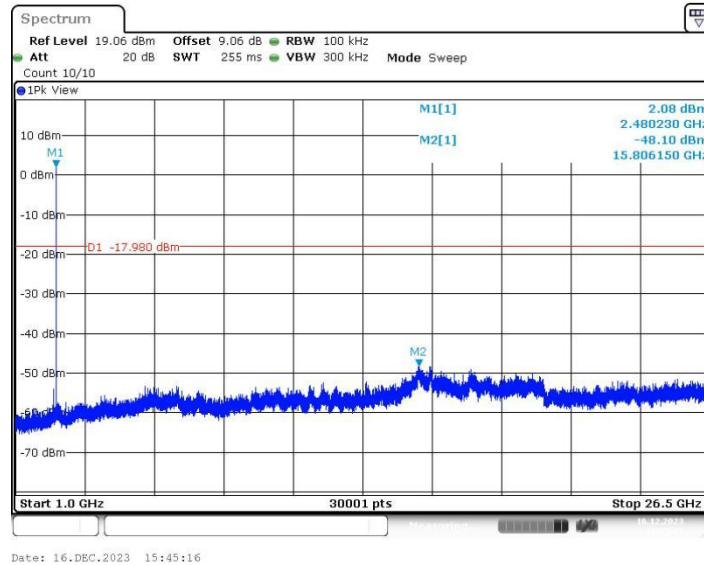
Test Graphs



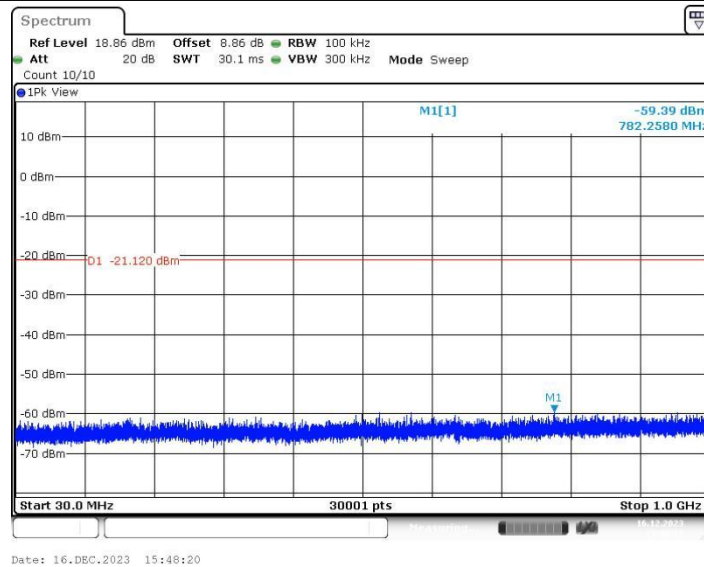




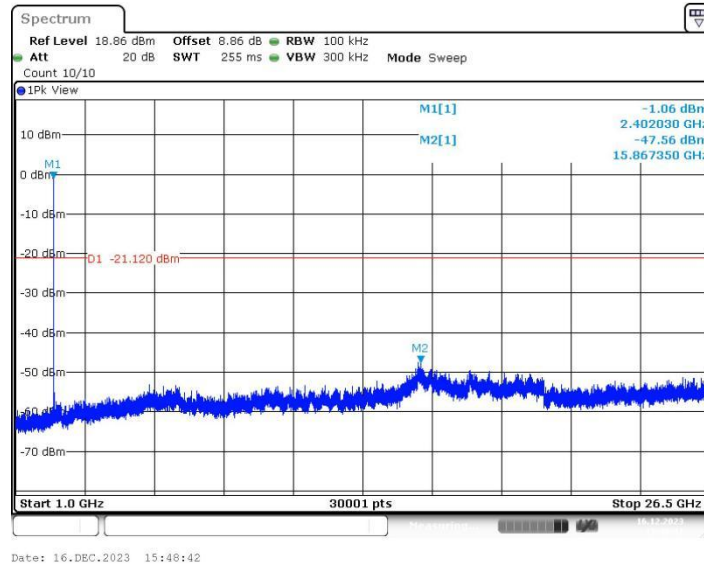
BLE_1M_Ant1_2480_1000~26500



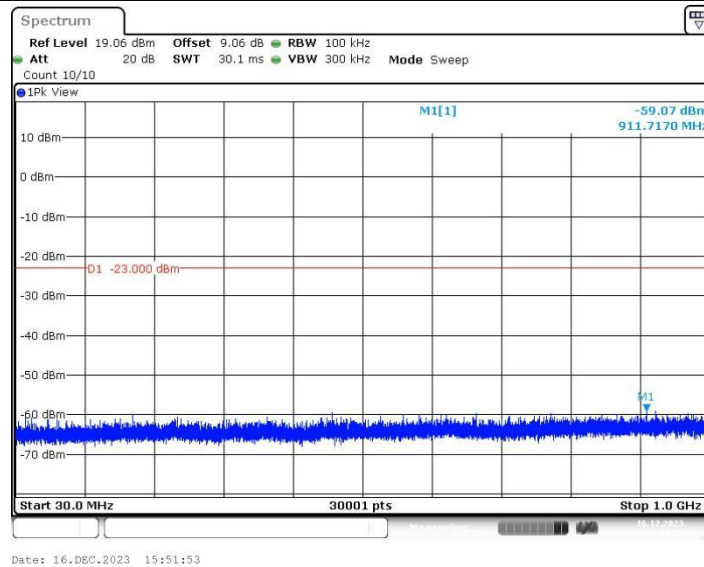
BLE_2M_Ant1_2402_30~1000



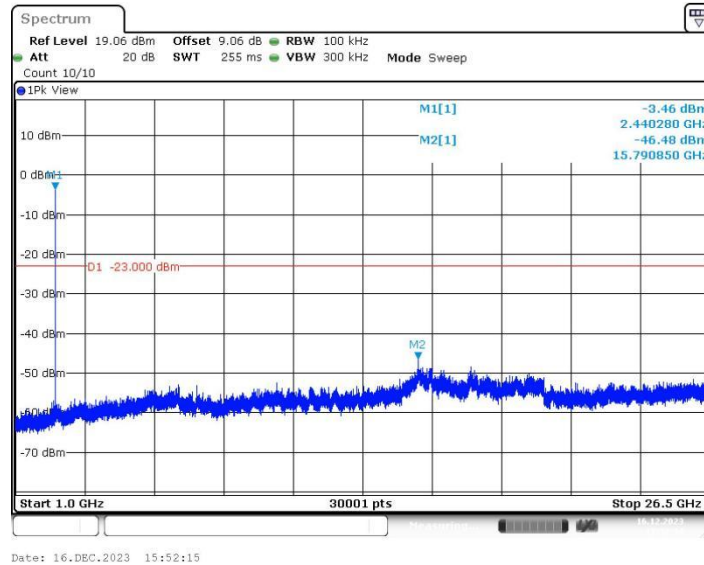
BLE_2M_Ant1_2402_1000~26500



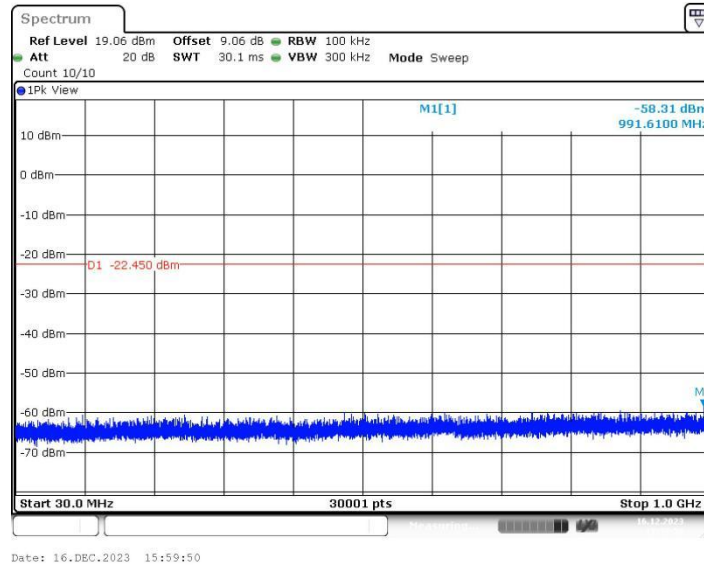
BLE_2M_Ant1_2440_30~1000



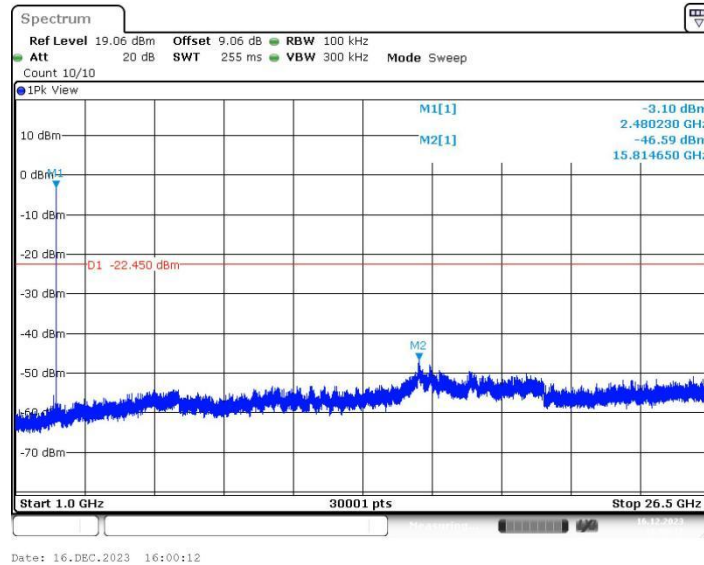
BLE_2M_Ant1_2440_1000~26500



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	0.00	0.00	NaN	100	NaN	---	---
		2440	0.00	0.00	NaN	100	NaN	---	---
		2480	0.00	0.00	NaN	100	NaN	---	---
BLE_2M	Ant1	2402	20.00	20.00	1.0000	100.00	0.00	---	---
		2440	20.00	20.00	1.0000	100.00	0.00	---	---
		2480	20.00	20.00	1.0000	100.00	0.00	---	---



Test Graphs

