

FCC Appendix RF Test Data for BLE

FCC ID : 2ART9-ELLIQNU310

Company : Intuition Robotics

EUT : ElliQ - K

Model Number : ElliQ NU310

Report No. : CTA26060201501

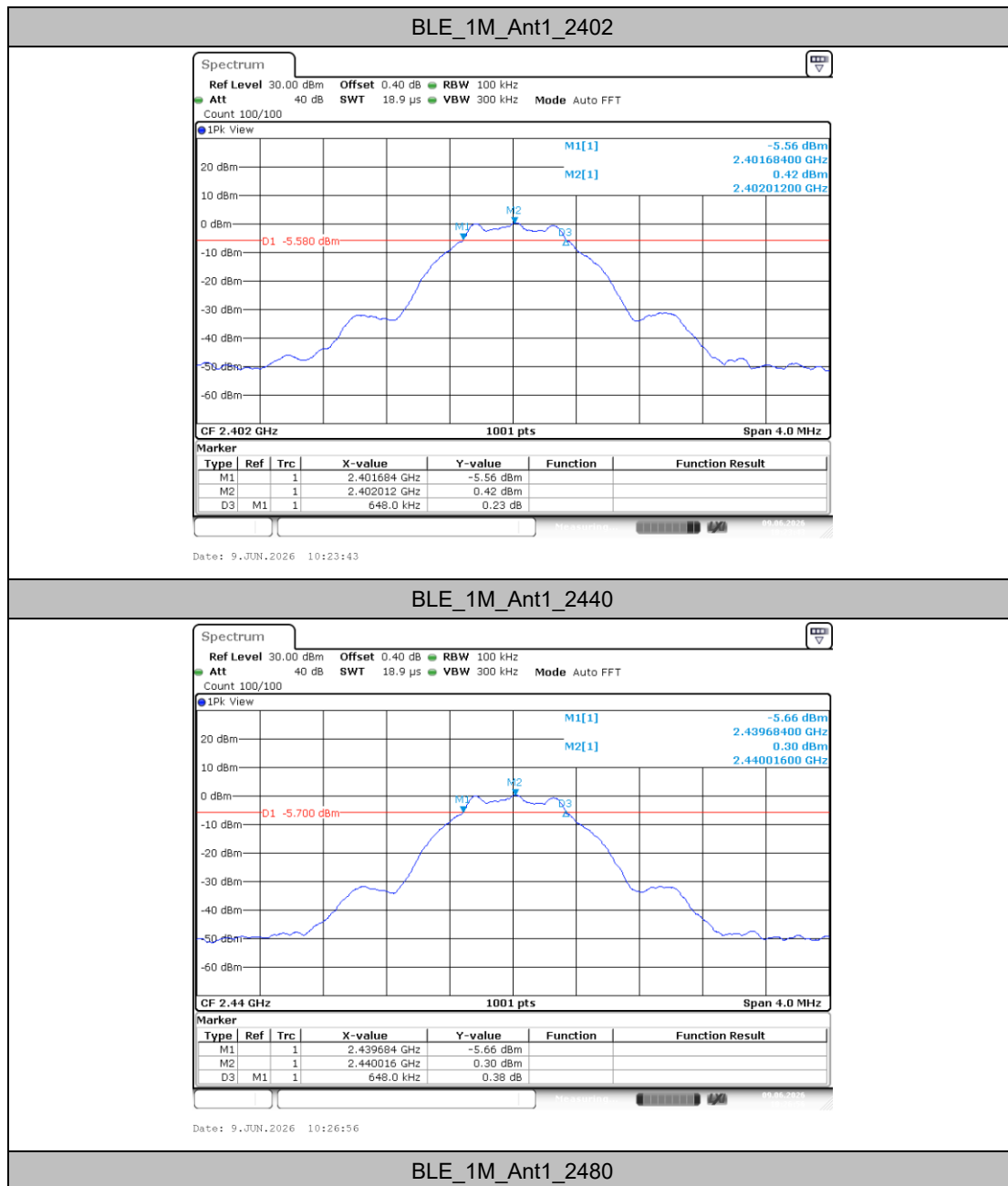
Reviewed By : Eric Wang

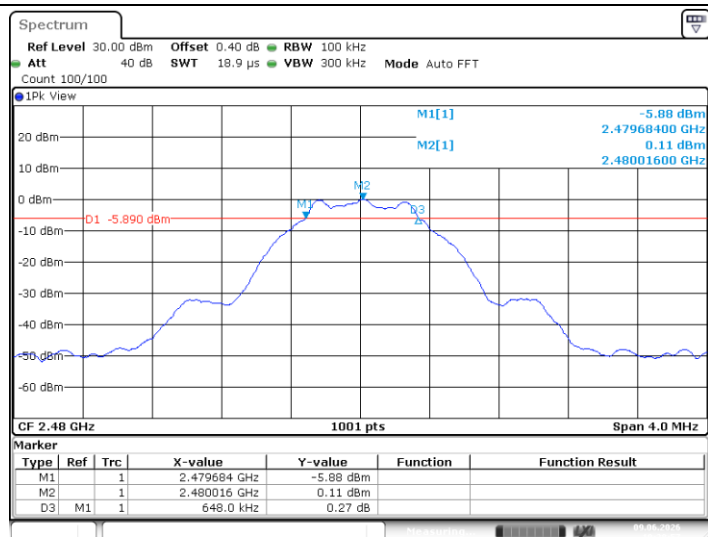
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.65	2401.68	2402.33	0.5	PASS
		2440	0.65	2439.68	2440.33	0.5	PASS
		2480	0.65	2479.68	2480.33	0.5	PASS

Test Graphs





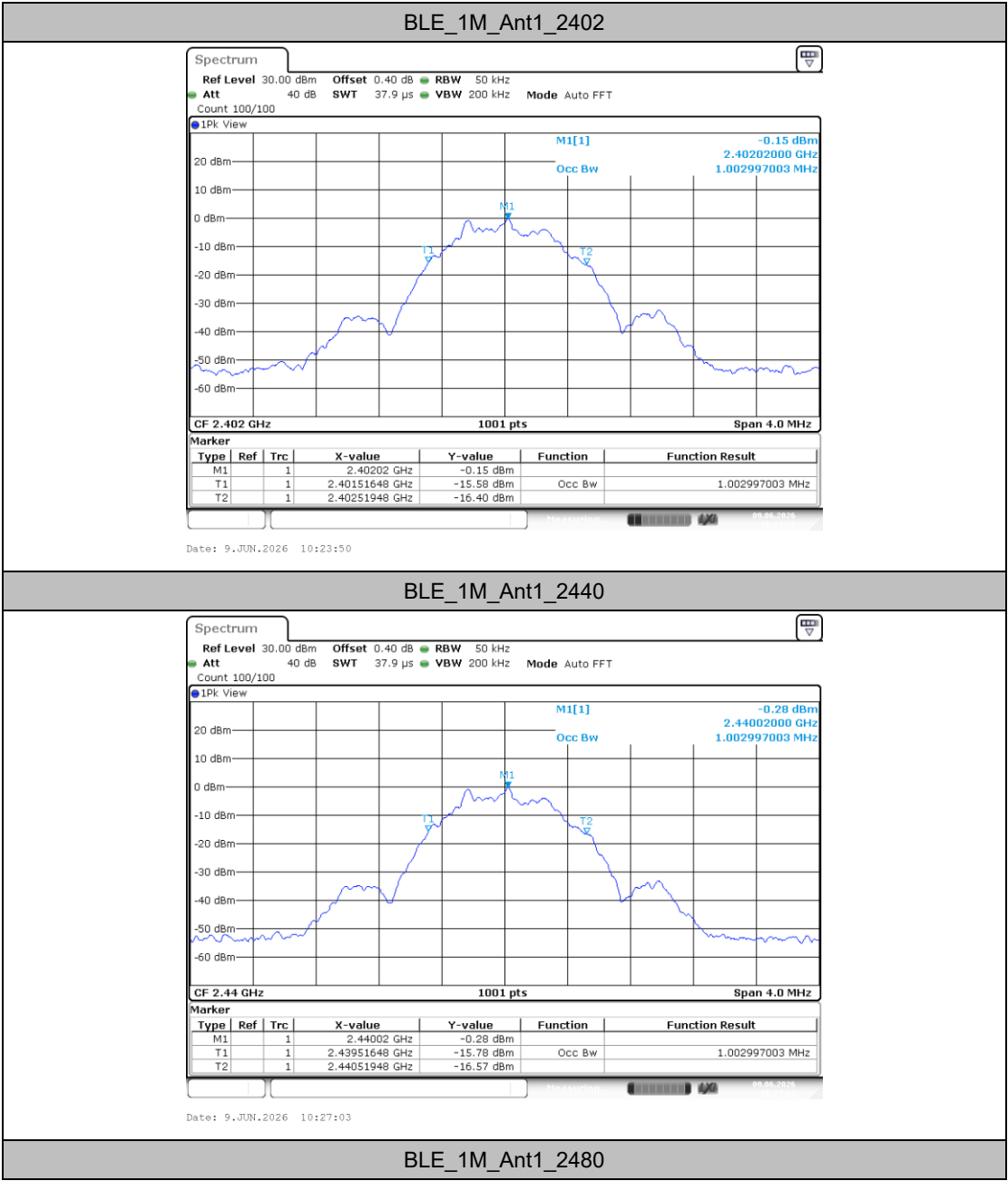
Date: 9.JUN.2026 10:28:57

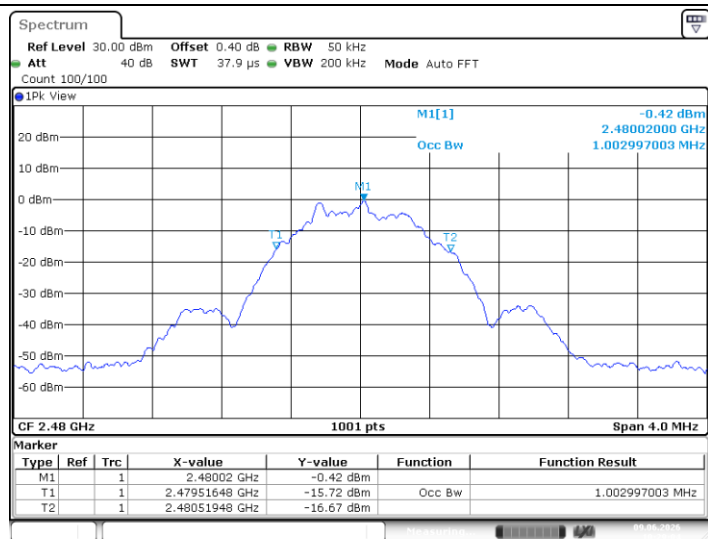
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0030	2401.5165	2402.5195	---	---
		2440	1.0030	2439.5165	2440.5195	---	---
		2480	1.0030	2479.5165	2480.5195	---	---

Test Graphs





Date: 9.JUN.2026 10:29:04

Appendix C: Maximum conducted output power

Test Result Peak

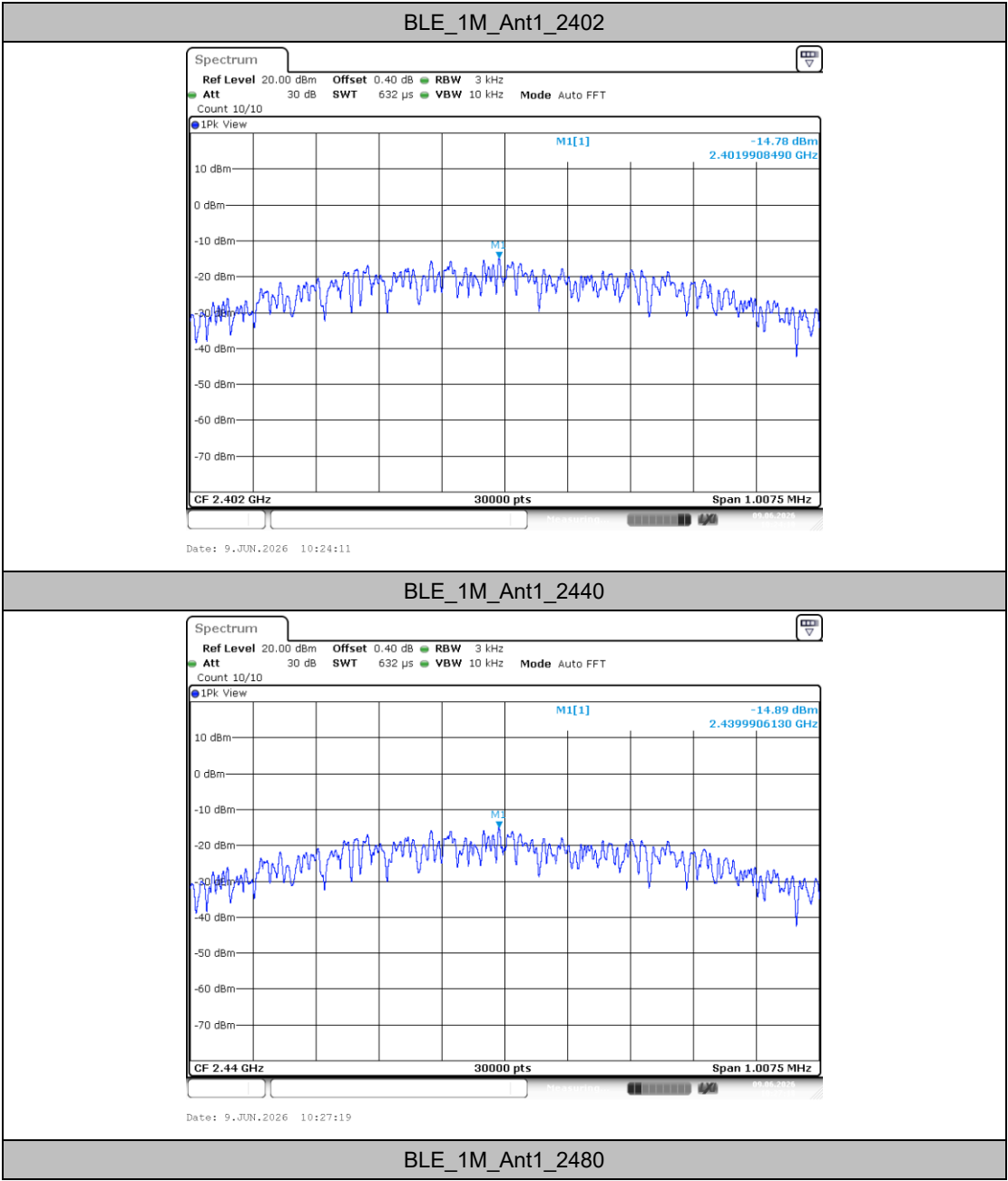
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.56	≤30	PASS
		2440	0.48	≤30	PASS
		2480	0.34	≤30	PASS

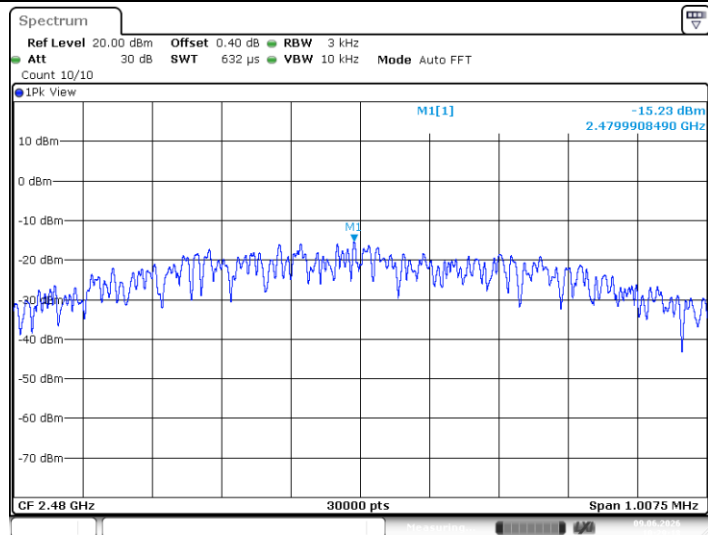
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.78	≤8.00	PASS
		2440	-14.89	≤8.00	PASS
		2480	-15.23	≤8.00	PASS

Test Graphs





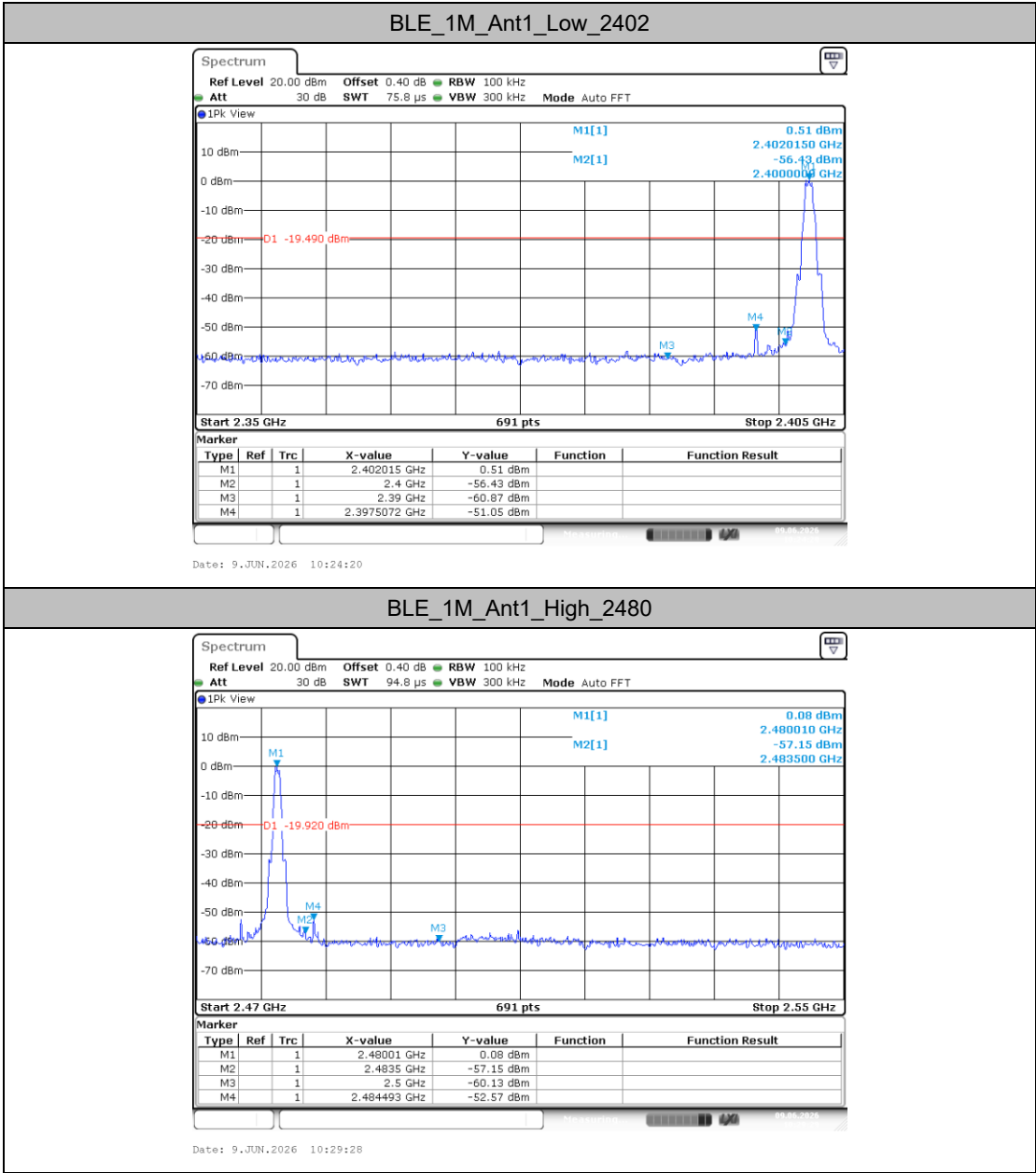
Date: 9.JUN.2026 10:29:19

Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.51	-51.05	≤-19.49	PASS
		High	2480	0.08	-52.57	≤-19.92	PASS

Test Graphs

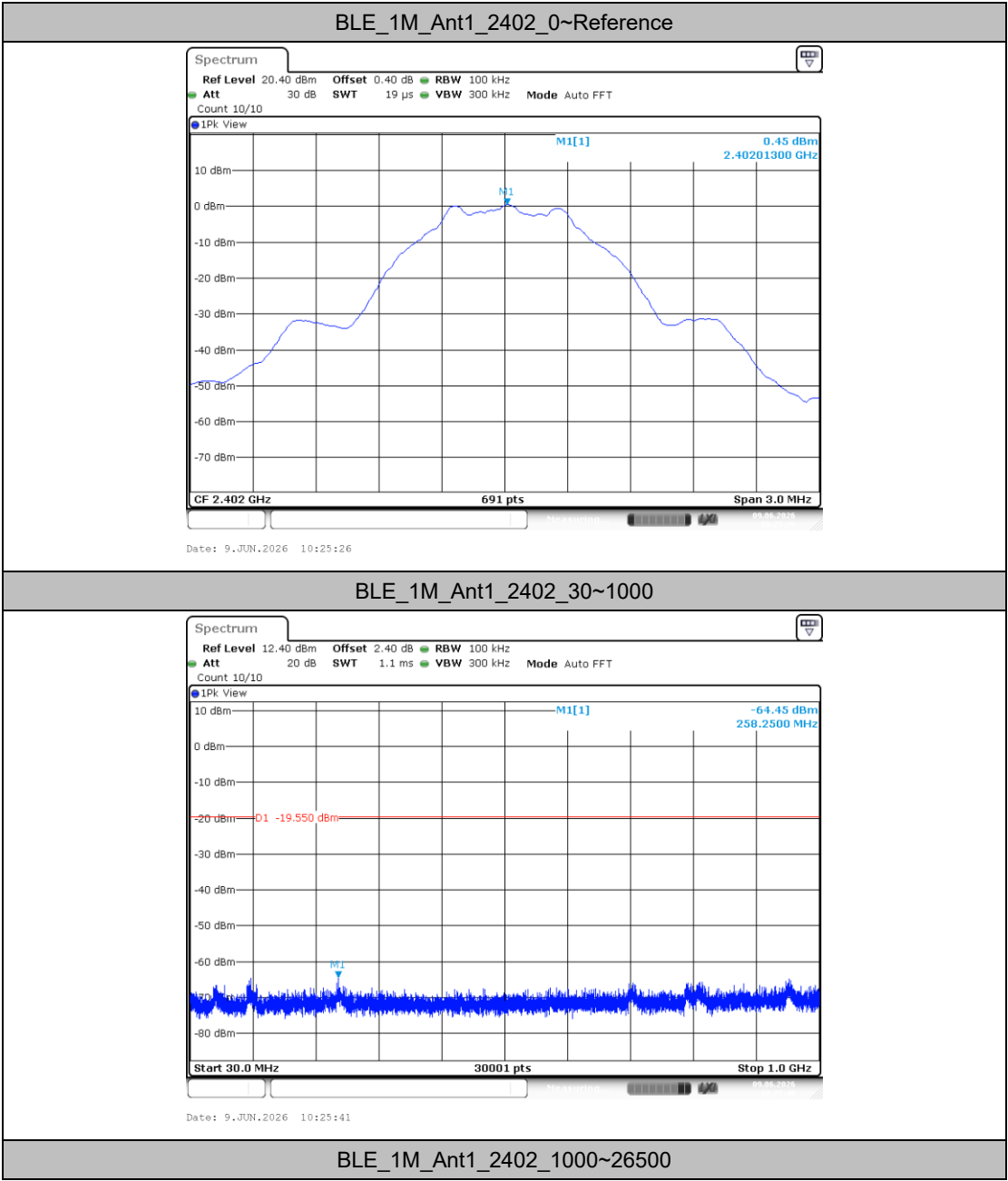


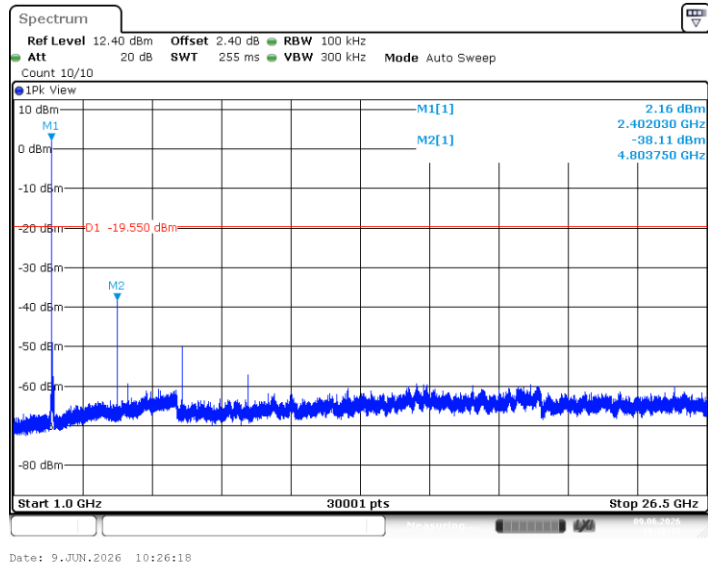
Appendix F: Conducted Spurious Emission

Test Result

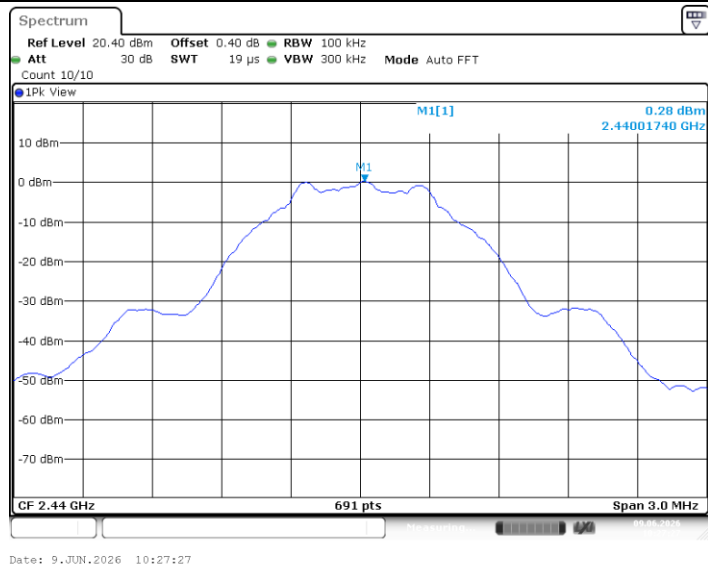
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.45	0.45	---	PASS
			30~1000	0.45	-64.45	≤-19.55	PASS
			1000~26500	0.45	-38.11	≤-19.55	PASS
		2440	Reference	0.28	0.28	---	PASS
			30~1000	0.28	-64.42	≤-19.72	PASS
			1000~26500	0.28	-40.54	≤-19.72	PASS
		2480	Reference	0.05	0.05	---	PASS
			30~1000	0.05	-64.75	≤-19.95	PASS
			1000~26500	0.05	-43.74	≤-19.95	PASS

Test Graphs

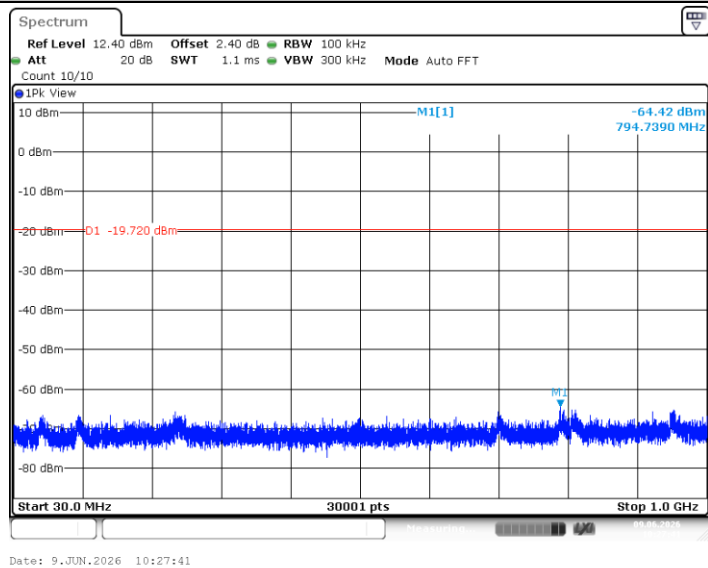




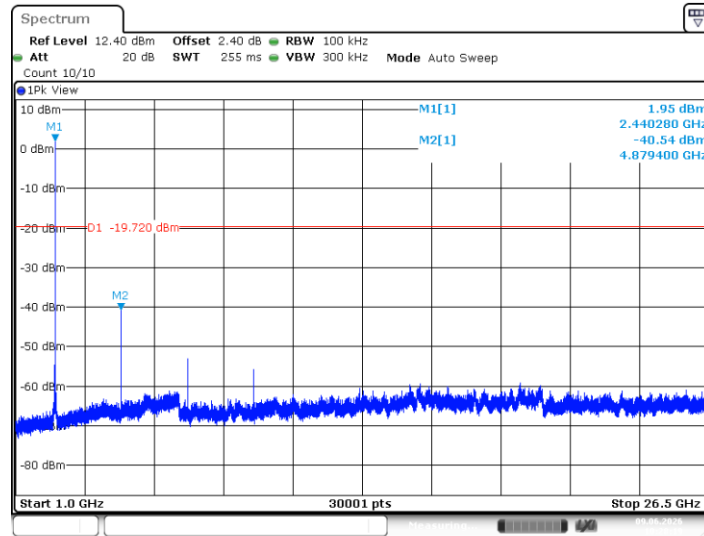
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

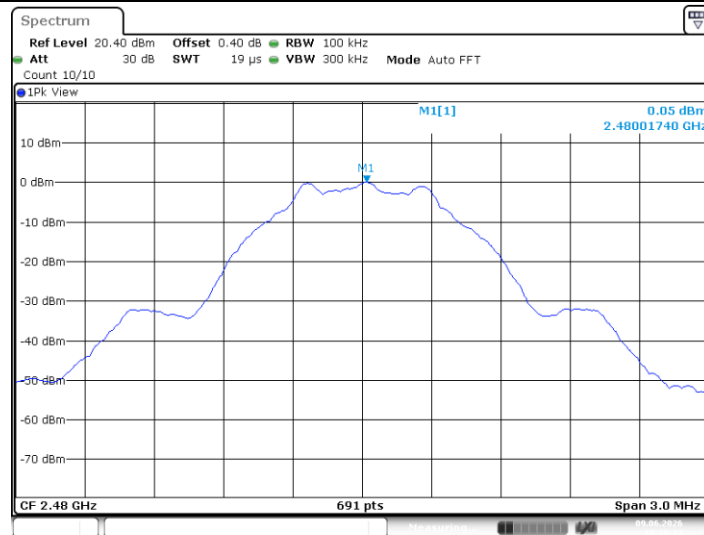


BLE_1M_Ant1_2440_1000~26500



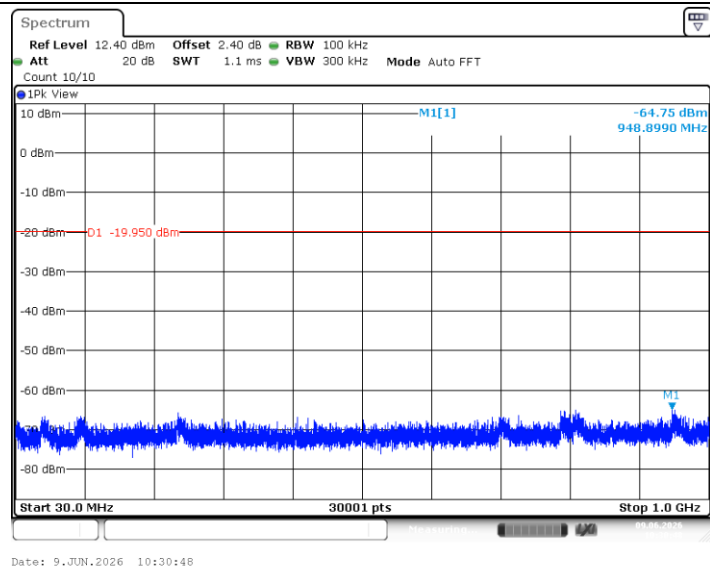
Date: 9.JUN.2026 10:28:19

BLE_1M_Ant1_2480_0~Reference

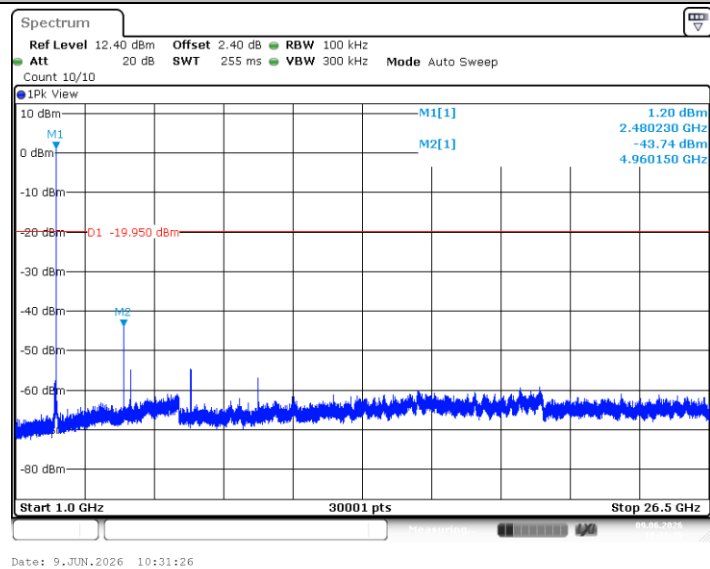


Date: 9.JUN.2026 10:30:34

BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

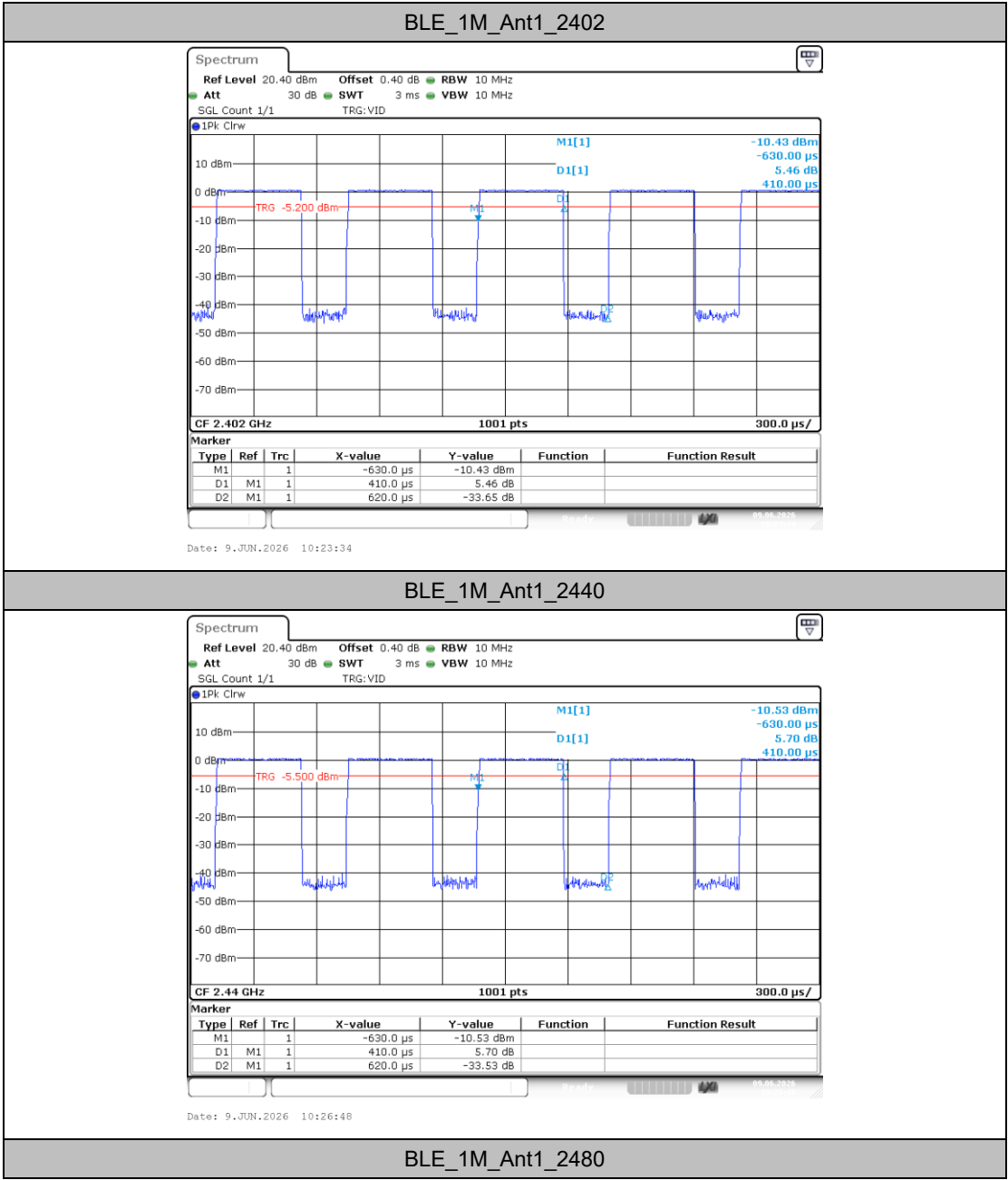


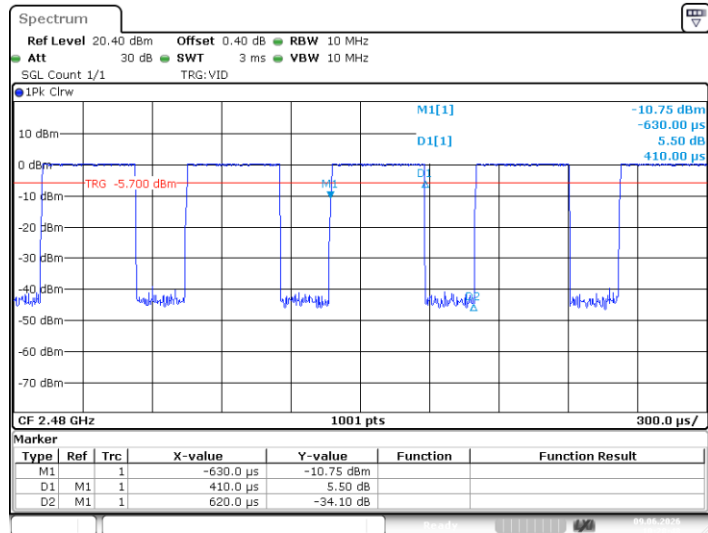
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.41	0.62	0.6613	66.13	1.80	---	---
		2440	0.41	0.62	0.6613	66.13	1.80	---	---
		2480	0.41	0.62	0.6613	66.13	1.80	---	---

Test Graphs





Date: 9.JUN.2026 10:28:48

Appendix H: Emissions in Restricted Bands

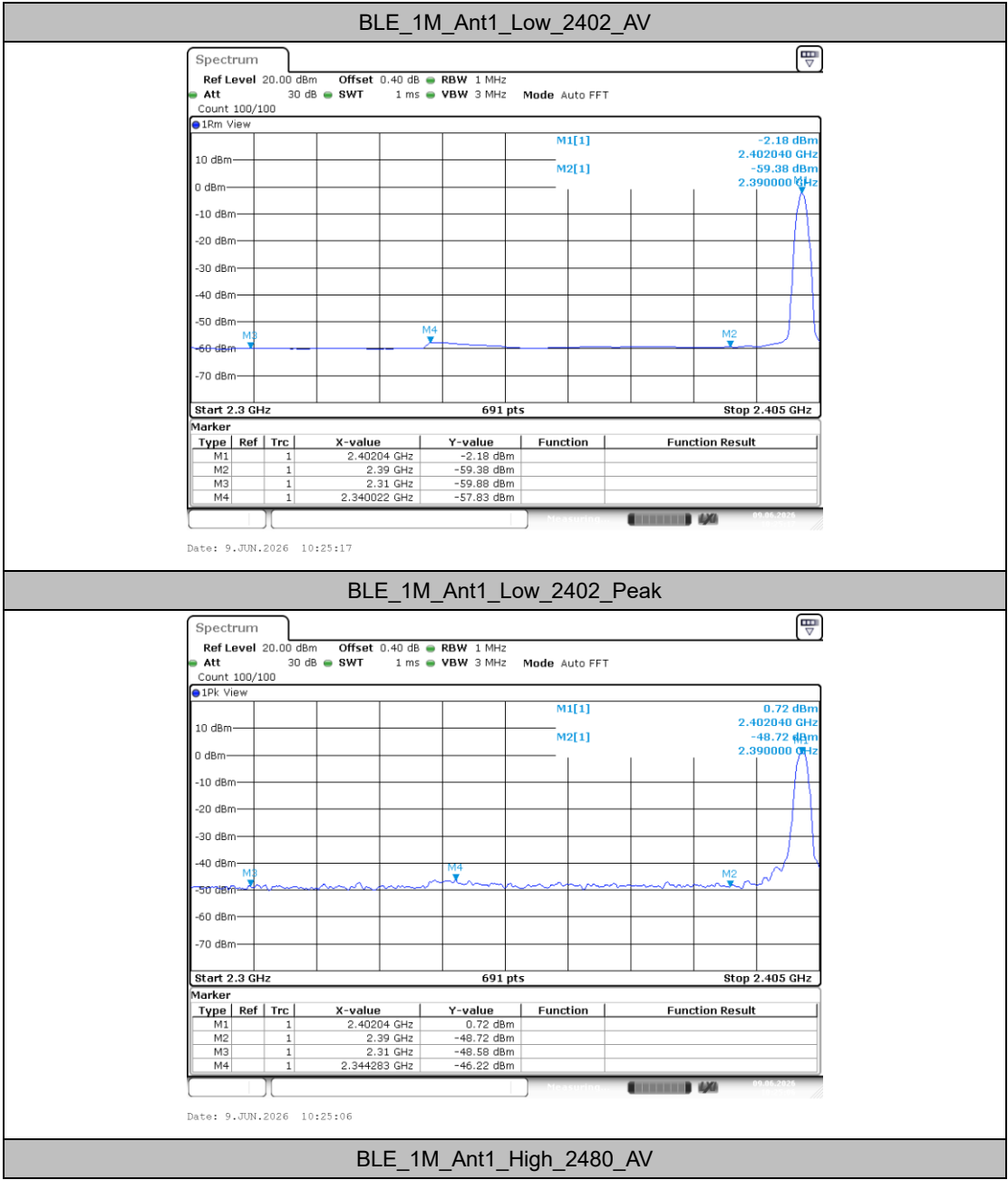
Test Result

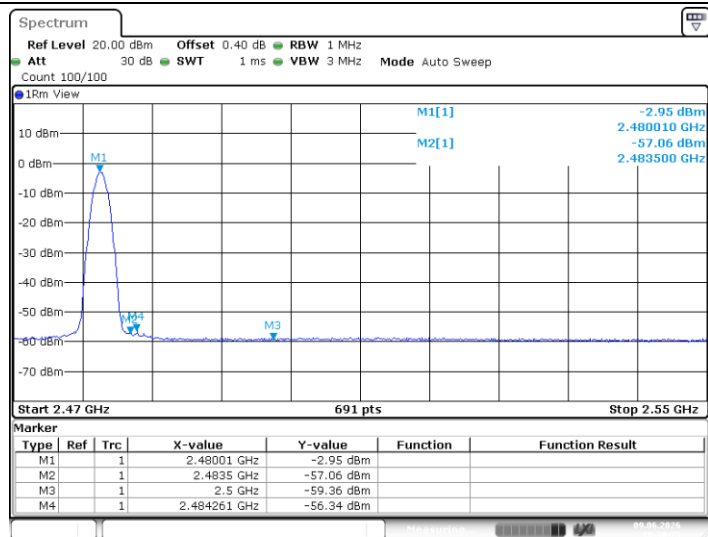
TestMode	Antenna	Channel Name	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-59.88	2.7	1.80	39.82	≤54	PASS
				AV	2340.022	-57.83	2.7	1.80	41.87	≤54	PASS
				AV	2390.000	-59.38	2.7	1.80	40.32	≤54	PASS
				Peak	2310.000	-48.58	2.7	0.00	49.32	≤74	PASS
				Peak	2344.283	-46.22	2.7	0.00	51.68	≤74	PASS
				Peak	2390.000	-48.72	2.7	0.00	49.18	≤74	PASS
		High	2480	AV	2483.500	-57.06	2.7	1.80	42.64	≤54	PASS
				AV	2484.261	-56.34	2.7	1.80	43.36	≤54	PASS
				AV	2500.000	-59.36	2.7	1.80	40.34	≤54	PASS
				Peak	2483.500	-45.27	2.7	0.00	52.63	≤74	PASS
				Peak	2484.493	-41.85	2.7	0.00	56.05	≤74	PASS
				Peak	2500.000	-48.72	2.7	0.00	49.18	≤74	PASS

Note:

- The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

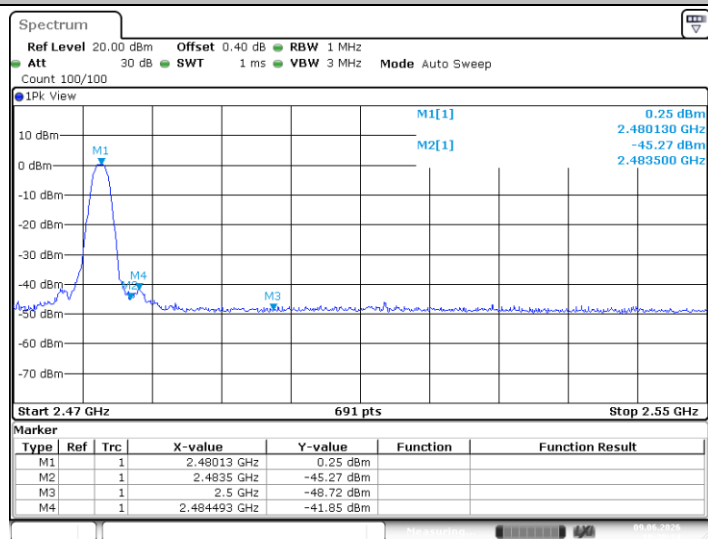
Test Graphs





Date: 9.JUN.2026 10:30:25

BLE_1M_Ant1_High_2480_Peak



Date: 9.JUN.2026 10:30:14