

FCC Appendix RF Test Data for BLE

FCC ID : 2BWUX-1798

Company : Shenzhen Haojinglai Technology Co.,Ltd

EUT : car monitor

Model Number : 1798

Report No. : CTA26061700401

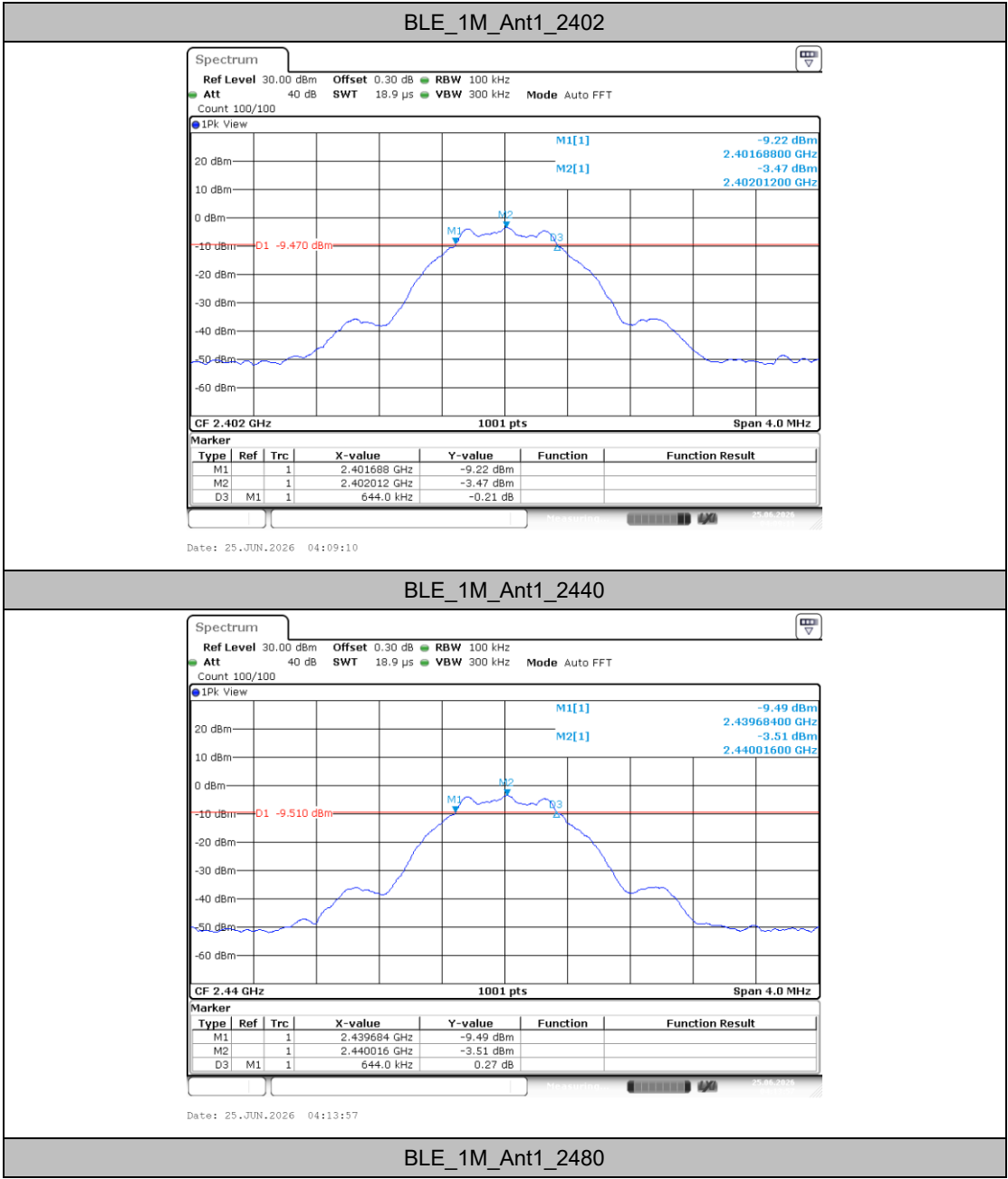
Reviewed By : Eric Wang

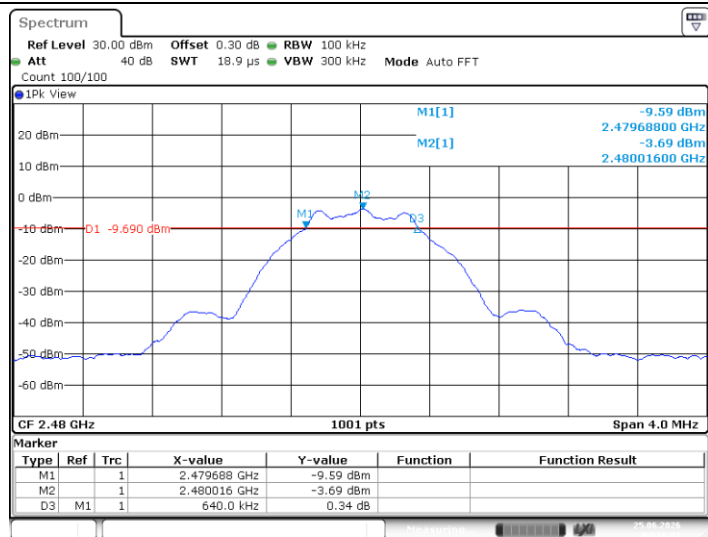
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.64	2401.69	2402.33	0.5	PASS
		2440	0.64	2439.68	2440.33	0.5	PASS
		2480	0.64	2479.69	2480.33	0.5	PASS

Test Graphs





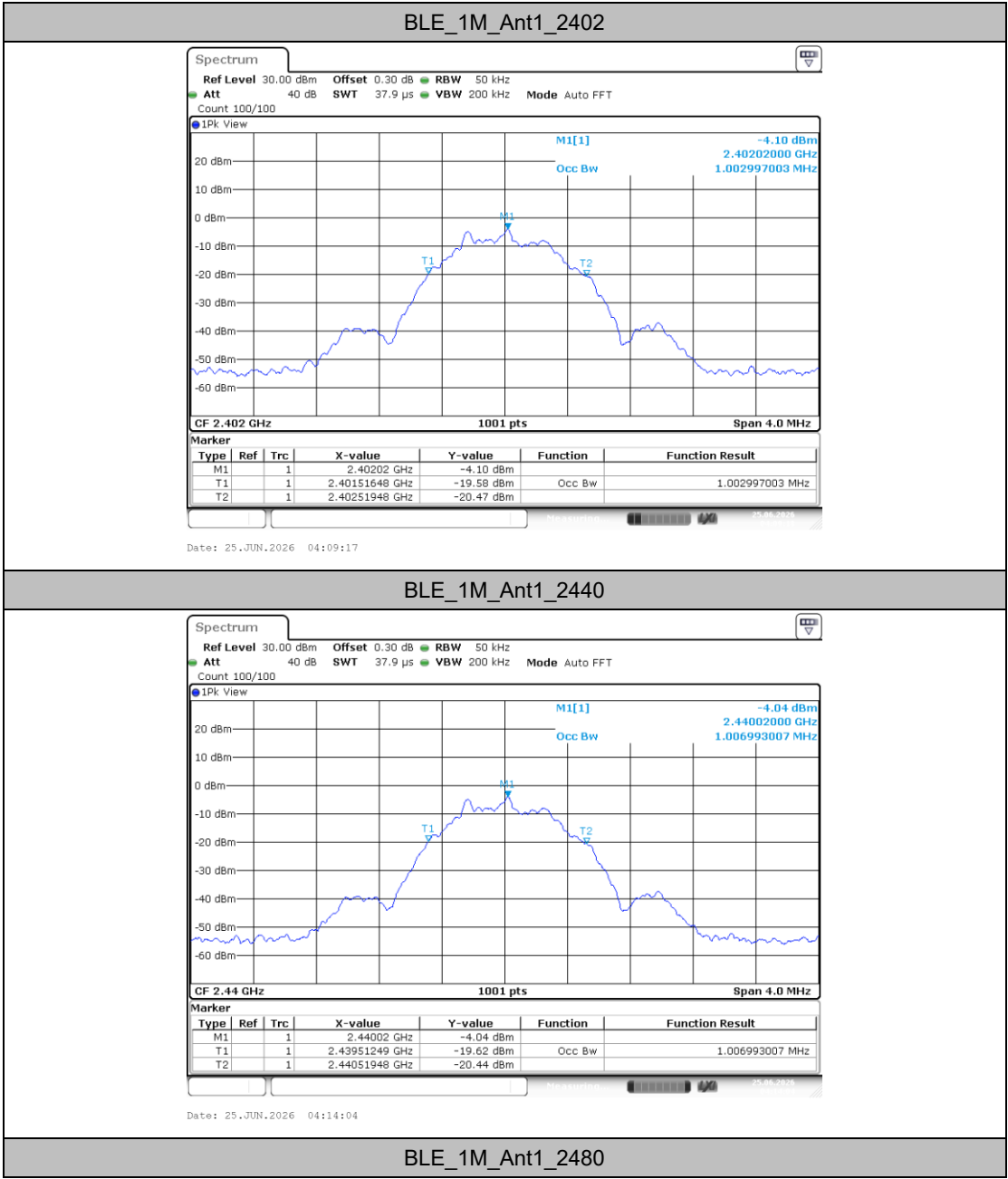
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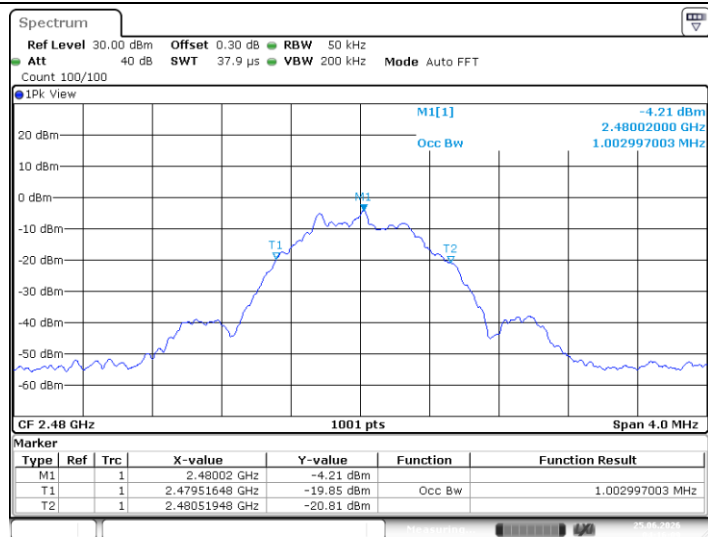
Appendix B: Occupied Channel Bandwidth

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	1.0070	2439.5125	2440.5195	---	---
		2480	1.0030	2479.5165	2480.5195	---	---

Test Graphs





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Appendix C: Maximum conducted output power

Test Result Peak

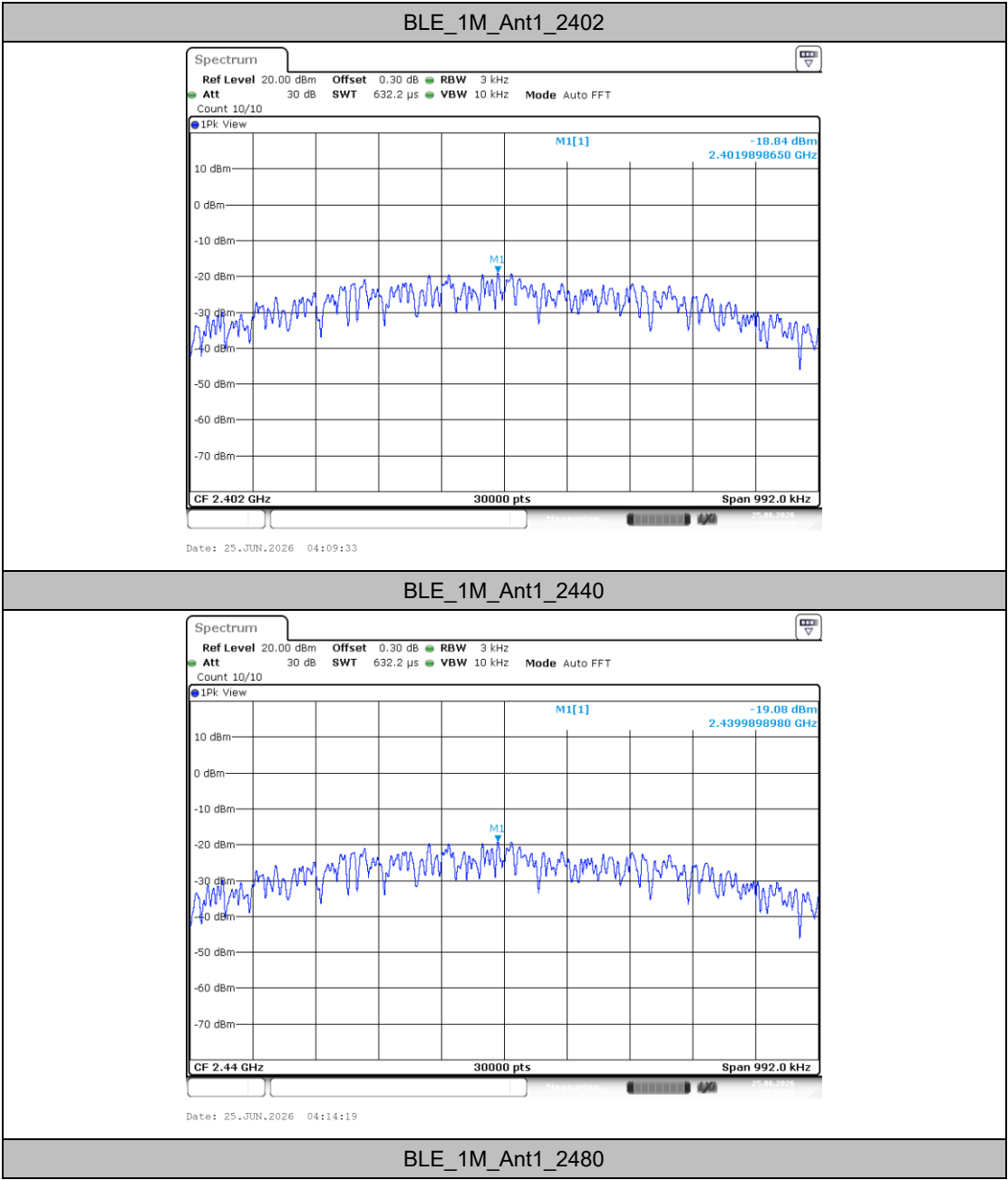
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.36	≤30	PASS
		2440	-3.44	≤30	PASS
		2480	-3.64	≤30	PASS

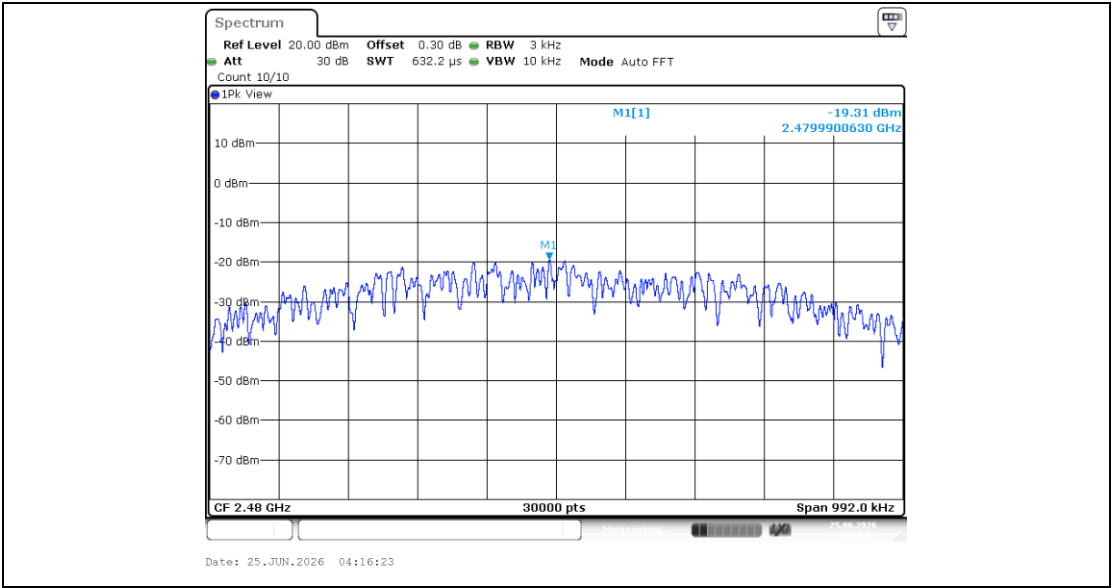
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.84	≤8.00	PASS
		2440	-19.08	≤8.00	PASS
		2480	-19.31	≤8.00	PASS

Test Graphs



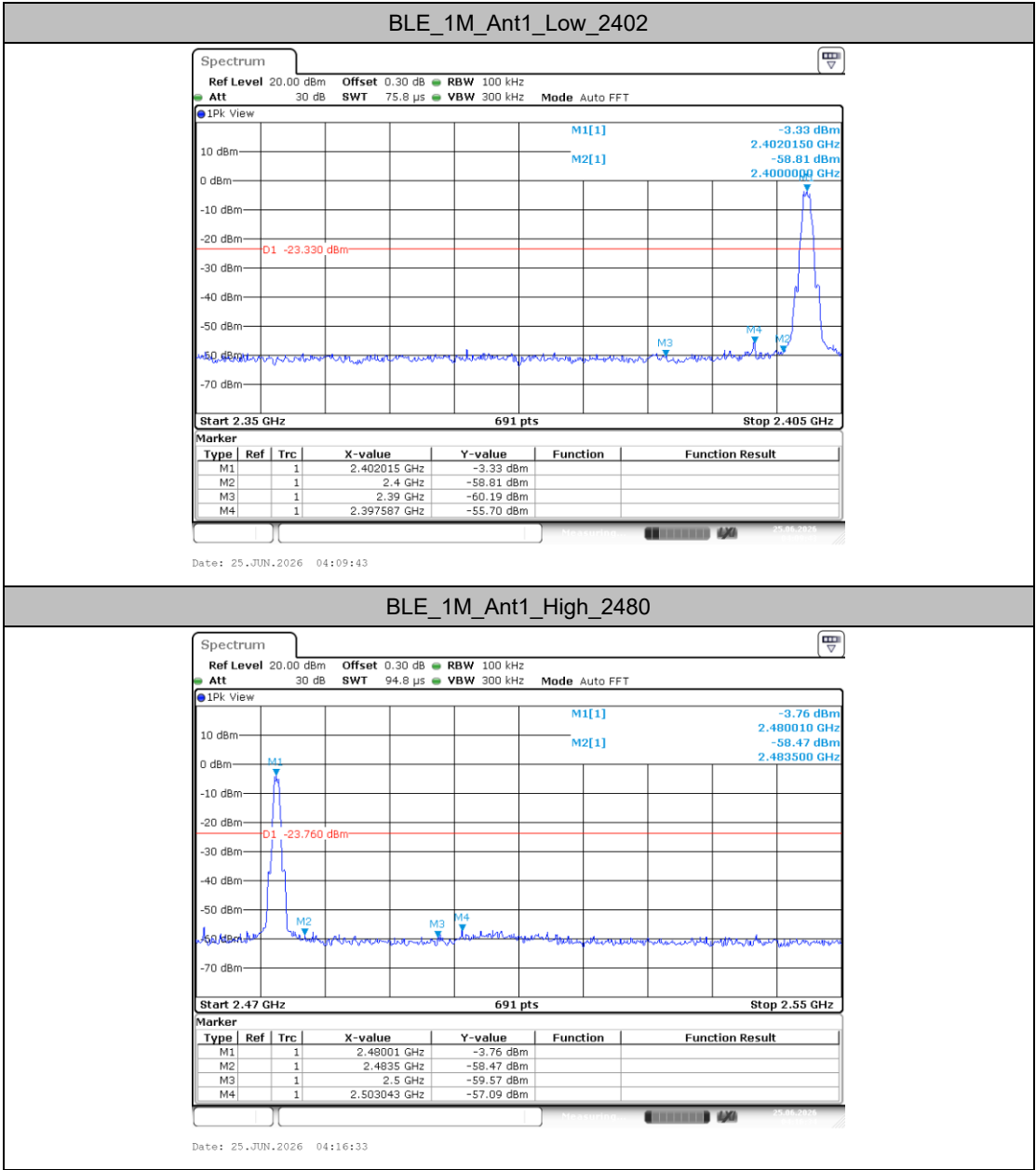


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.33	-55.7	≤-23.33	PASS
		High	2480	-3.76	-57.09	≤-23.76	PASS

Test Graphs

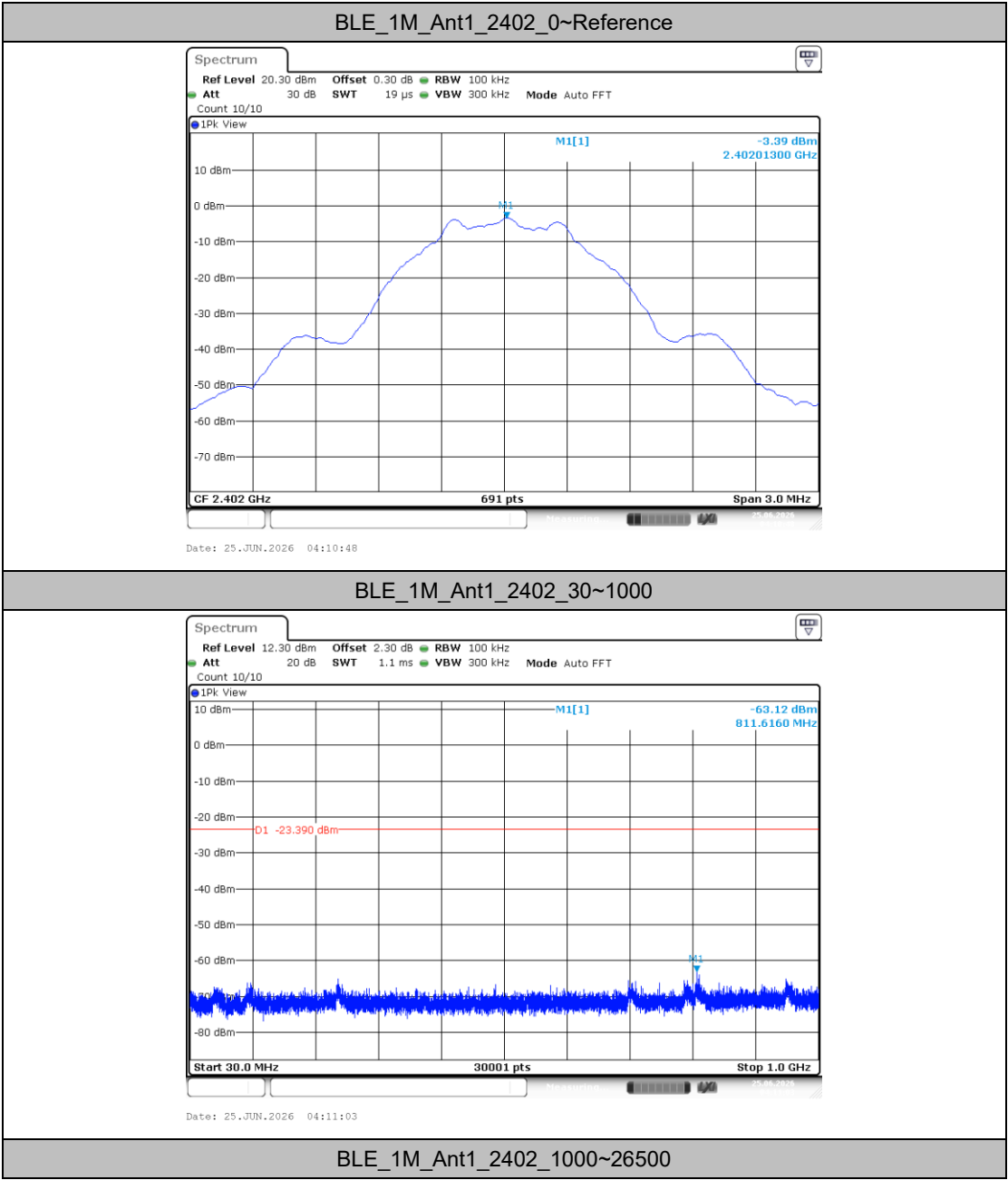


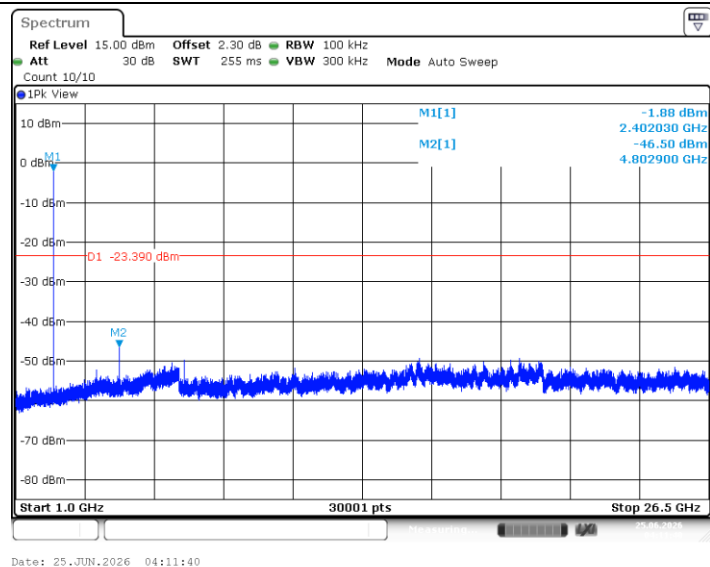
Appendix F: Conducted Spurious Emission

Test Result

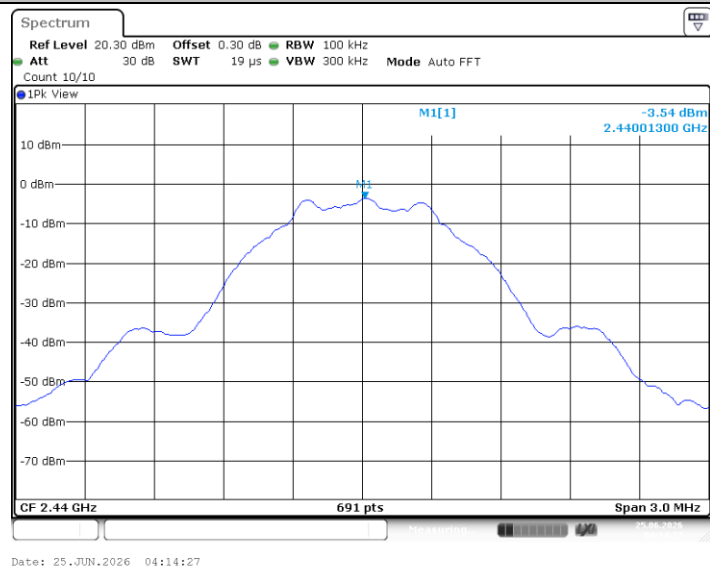
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.39	-3.39	---	PASS
			30~1000	-3.39	-63.12	≤-23.39	PASS
			1000~26500	-3.39	-46.5	≤-23.39	PASS
		2440	Reference	-3.54	-3.54	---	PASS
			30~1000	-3.54	-63.96	≤-23.54	PASS
			1000~26500	-3.54	-47.53	≤-23.54	PASS
		2480	Reference	-3.80	-3.80	---	PASS
			30~1000	-3.80	-62.57	≤-23.8	PASS
			1000~26500	-3.80	-48.37	≤-23.8	PASS

Test Graphs

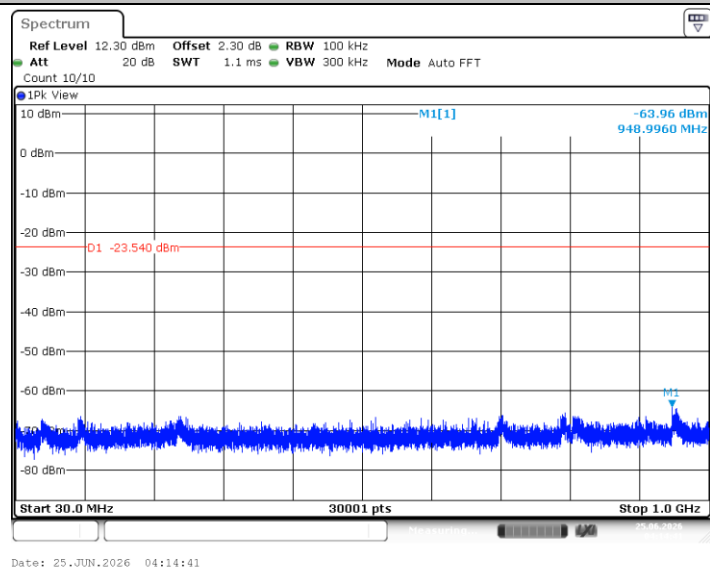




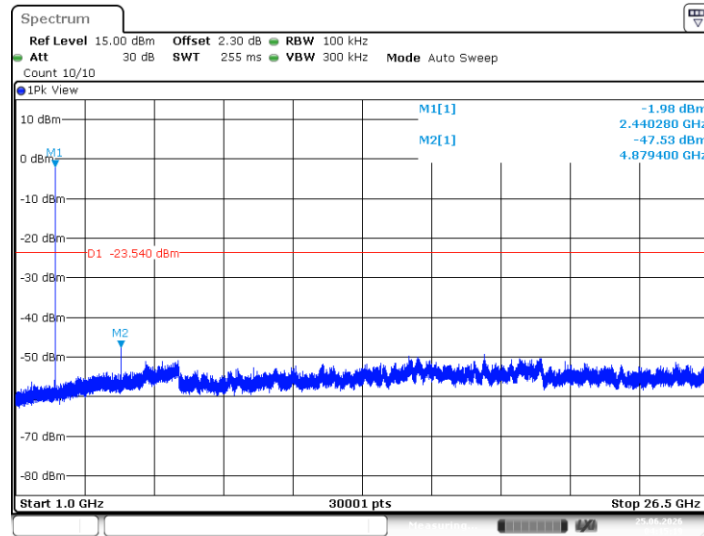
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



BLE_1M_Ant1_2440_1000~26500



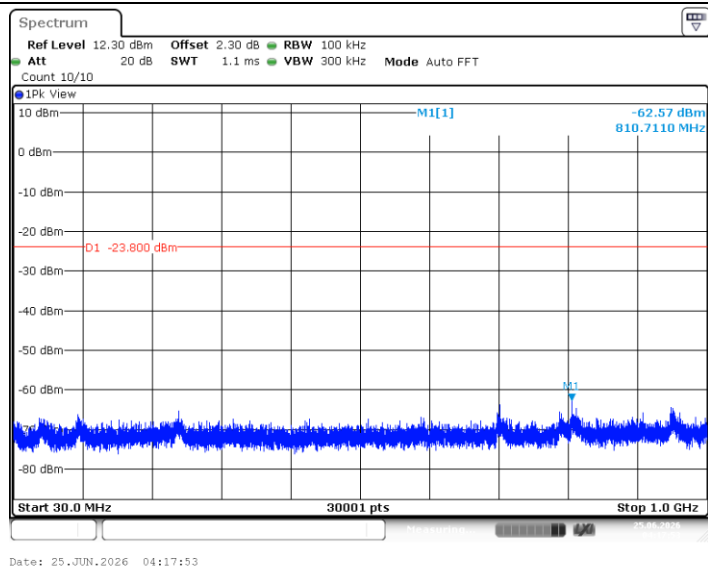
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BLE_1M_Ant1_2480_0~Reference

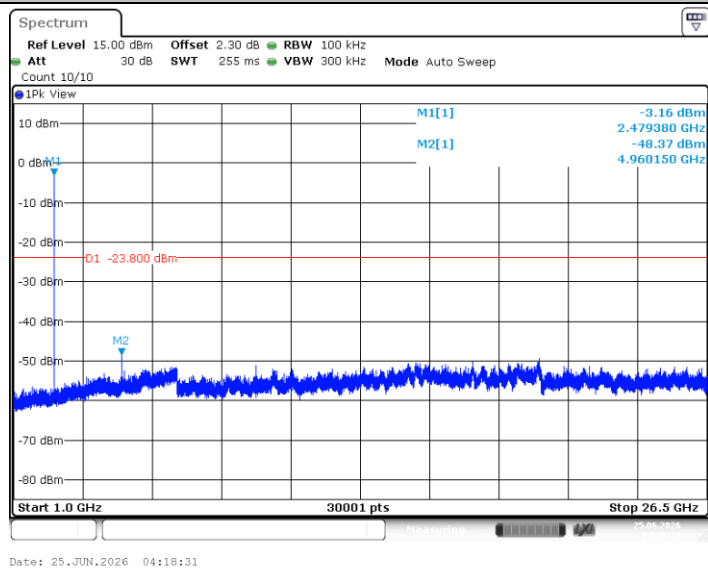


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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

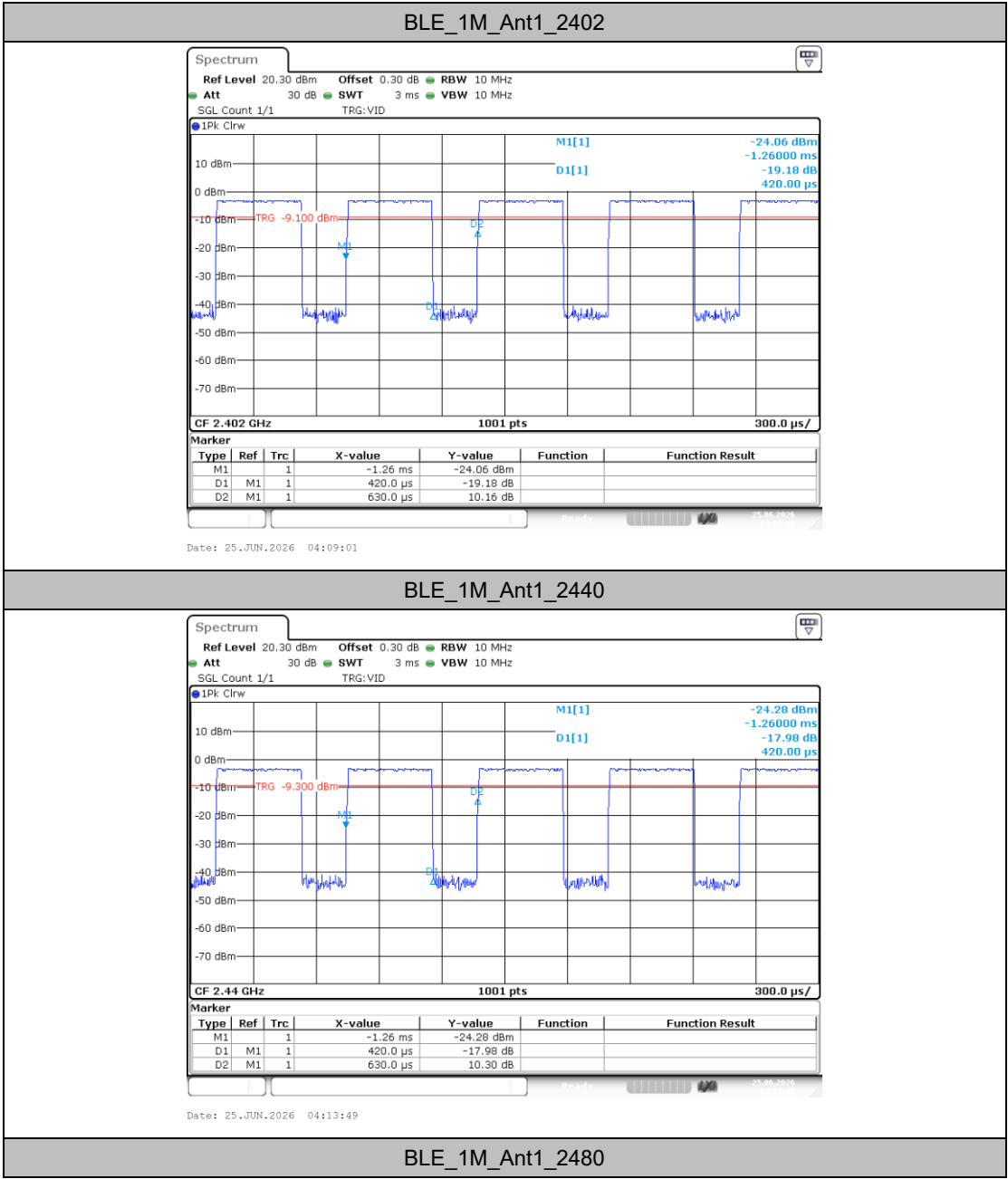


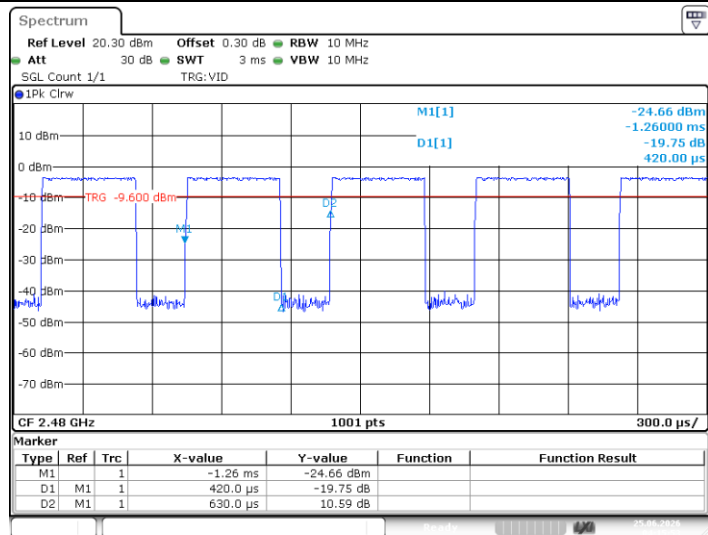
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.42	0.63	0.6667	66.67	1.76	---	---
		2440	0.42	0.63	0.6667	66.67	1.76	---	---
		2480	0.42	0.63	0.6667	66.67	1.76	---	---

Test Graphs





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Appendix H: Emissions in Restricted Bands

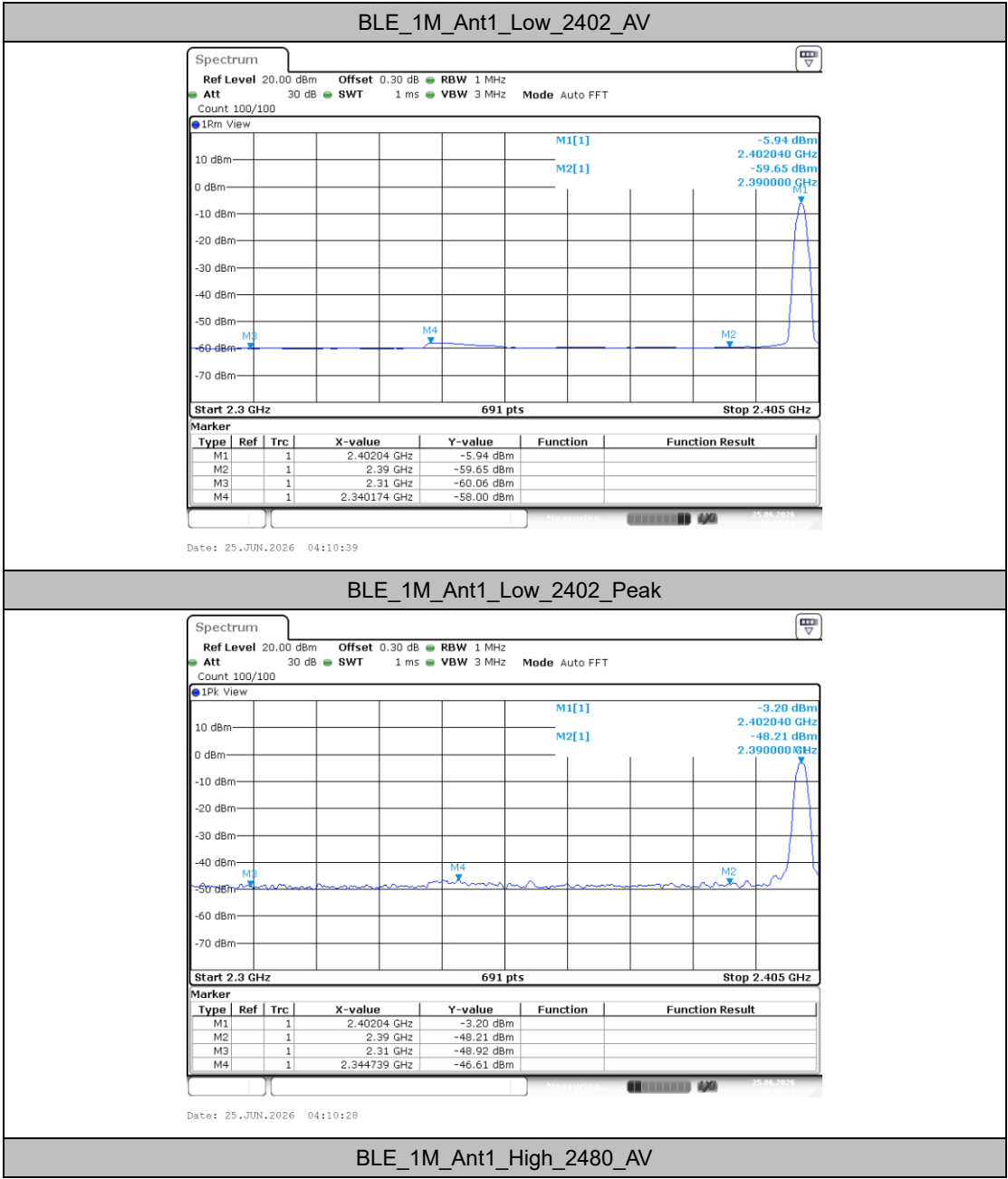
Test Result

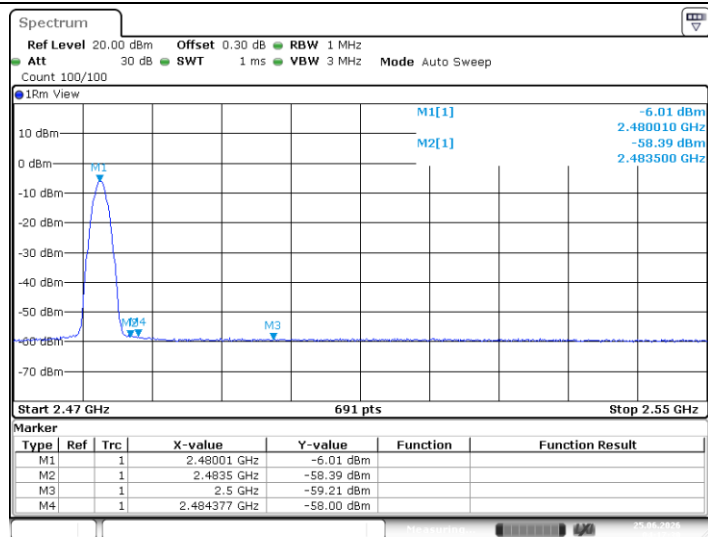
TestMode	Antenna	Channel	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-60.06	2.00	1.76	38.90	≤54	PASS
				AV	2340.174	-58	2.00	1.76	40.96	≤54	PASS
				AV	2390.000	-59.65	2.00	1.76	39.31	≤54	PASS
				Peak	2310.000	-48.92	2.00	0.00	48.28	≤74	PASS
				Peak	2344.739	-46.61	2.00	0.00	50.59	≤74	PASS
				Peak	2390.000	-48.21	2.00	0.00	48.99	≤74	PASS
		High	2480	AV	2483.500	-58.39	2.00	1.76	40.57	≤54	PASS
				AV	2484.377	-58	2.00	1.76	40.96	≤54	PASS
				AV	2500.000	-59.21	2.00	1.76	39.75	≤54	PASS
				Peak	2483.500	-47.54	2.00	0.00	49.66	≤74	PASS
				Peak	2484.377	-44.54	2.00	0.00	52.66	≤74	PASS
				Peak	2500.000	-48.88	2.00	0.00	48.32	≤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.

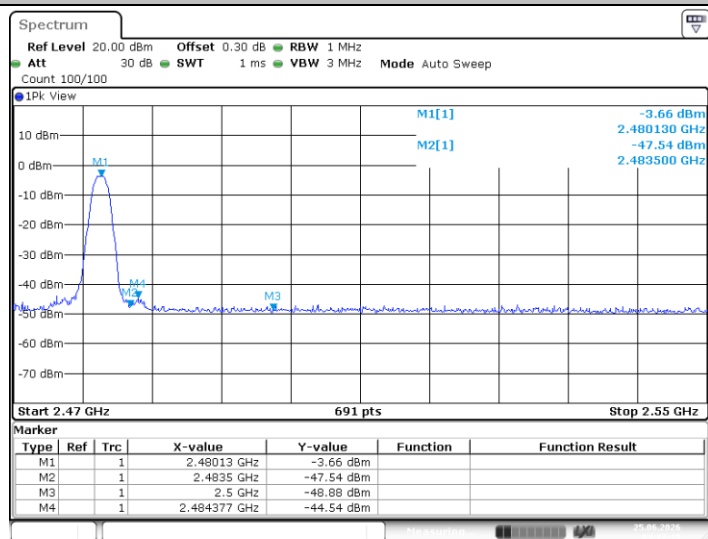
Test Graphs





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BLE_1M_Ant1_High_2480_Peak



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