

Appendix Test Data

Report No.:	18220WC30221701	Test Sample No.:	1-2-2
Start Test Date:	2023.10.16	Finish Test Date:	2023.10.19
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	24.4°C	Relative Humidity:	48.7%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.73	2401.66	2402.39	0.5	PASS
		2440	0.71	2439.67	2440.38	0.5	PASS
		2480	0.66	2479.70	2480.36	0.5	PASS

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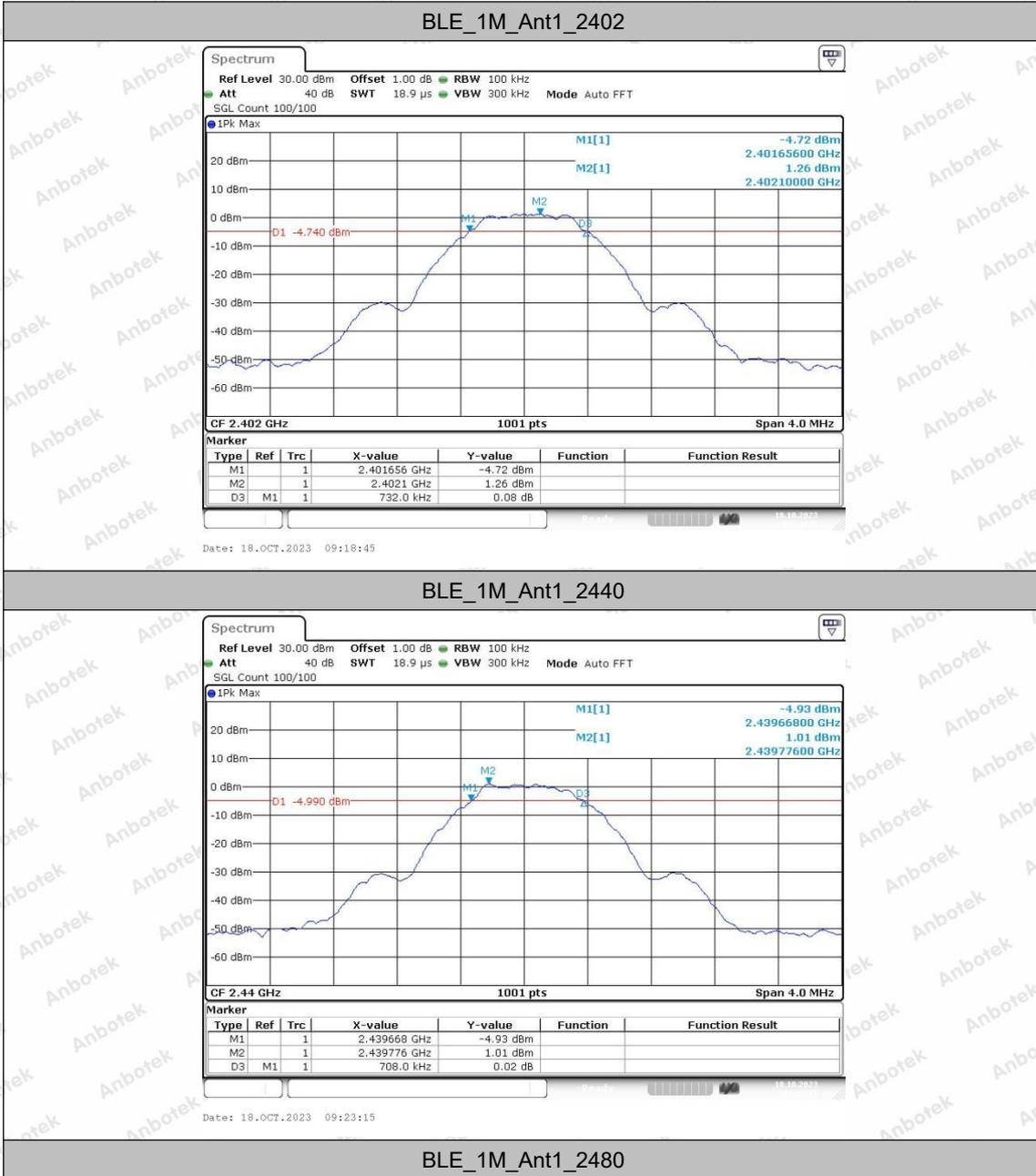
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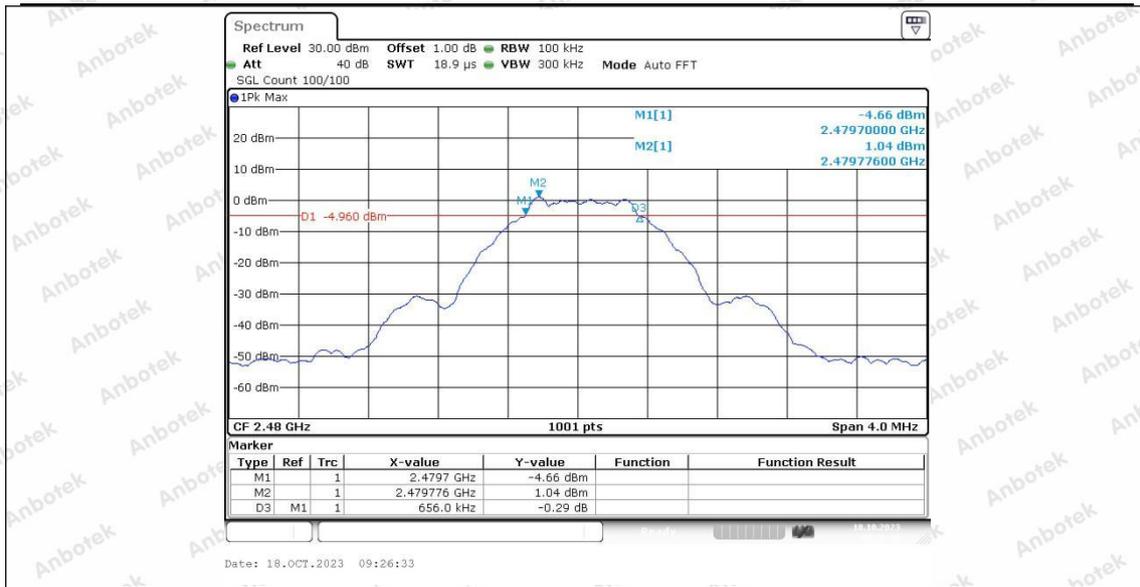


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Test Graphs





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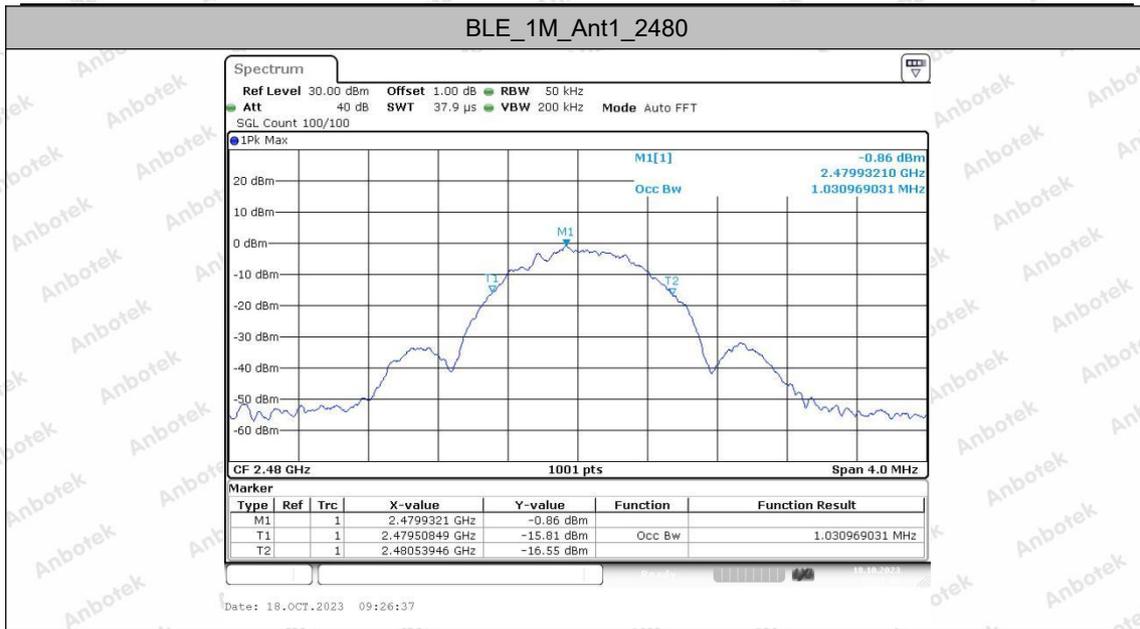
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.031	2401.5045	2402.5355
		2440	1.019	2439.5125	2440.5315
		2480	1.031	2479.5085	2480.5395

Test Graphs





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Appendix C: Maximum Conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Limit [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	2.65	≤30	2.65	≤36	PASS
		2440	2.27	≤30	2.27	≤36	PASS
		2480	1.67	≤30	1.67	≤36	PASS

Test Graphs Peak





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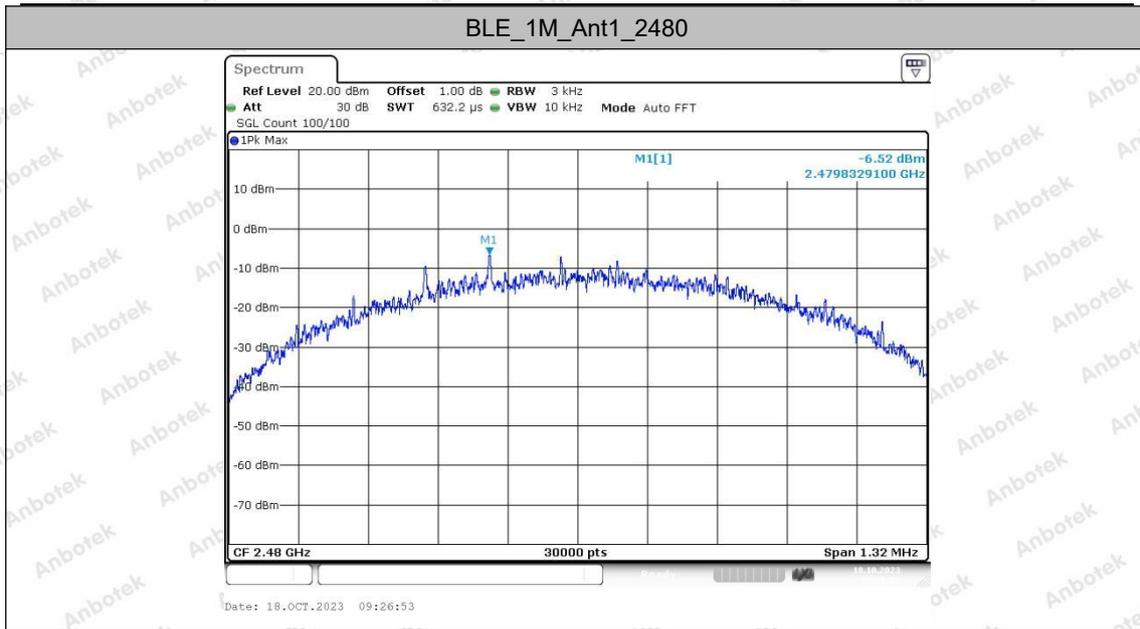
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.35	≤8.00	PASS
		2440	-9.19	≤8.00	PASS
		2480	-6.52	≤8.00	PASS

Test Graphs





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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.30	-58.57	≤-18.7	PASS
		High	2480	0.83	-57.17	≤-19.17	PASS

Test Graphs



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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	Reference	1.25	1.25	---	PASS
			30~1000	1.25	-65.6	≤-18.75	PASS
			1000~26500	1.25	-48.2	≤-18.75	PASS
		2440	Reference	0.98	0.98	---	PASS
			30~1000	0.98	-66.09	≤-19.02	PASS
			1000~26500	0.98	-48.36	≤-19.02	PASS
		2480	Reference	-0.30	-0.30	---	PASS
			30~1000	-0.30	-66.08	≤-20.3	PASS
			1000~26500	-0.30	-47.87	≤-20.3	PASS



Test Graphs

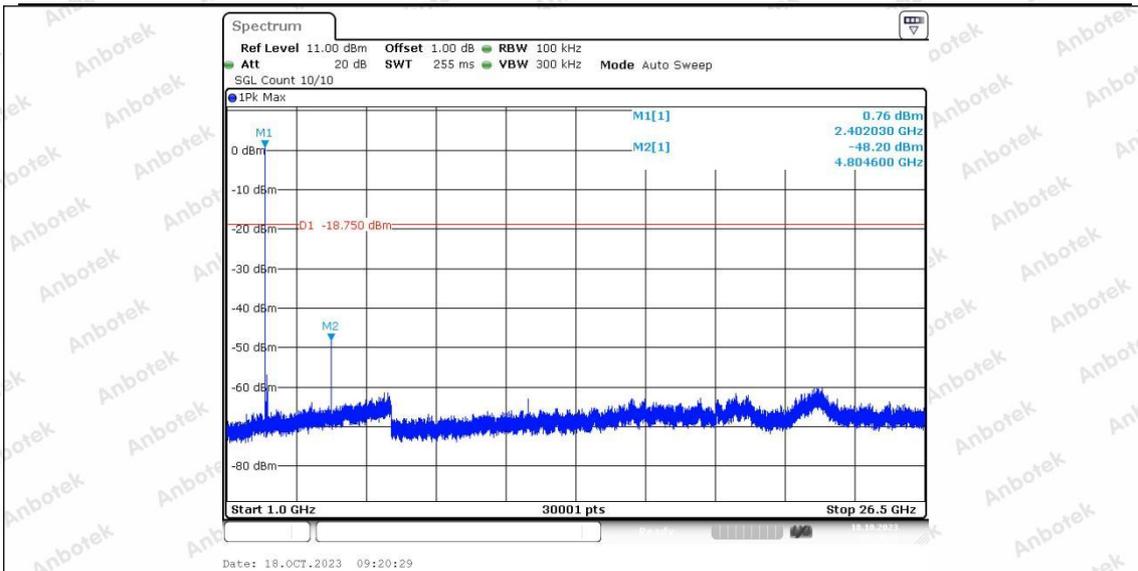


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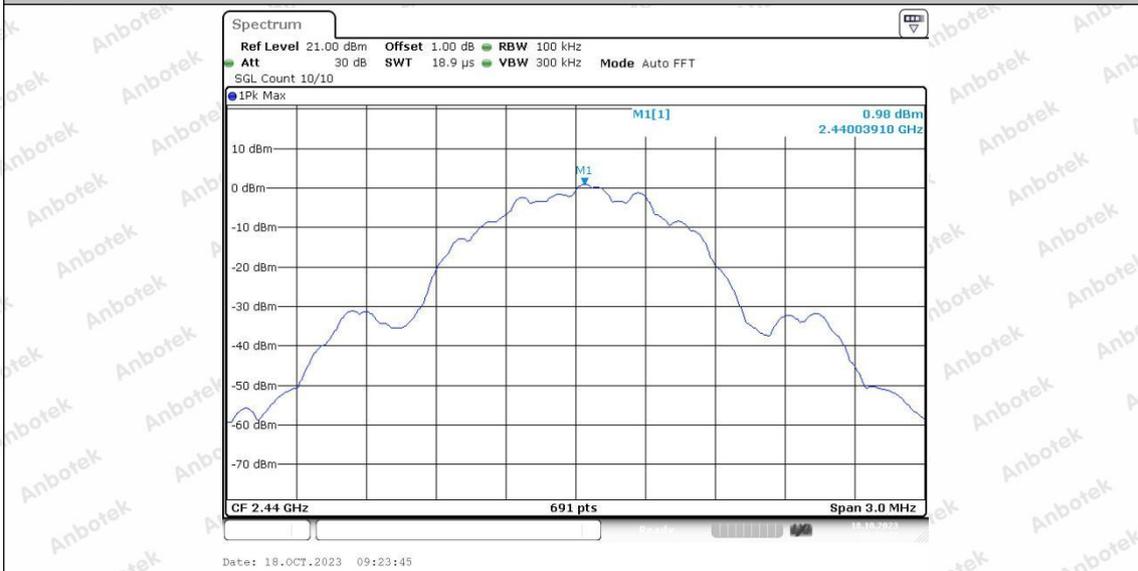
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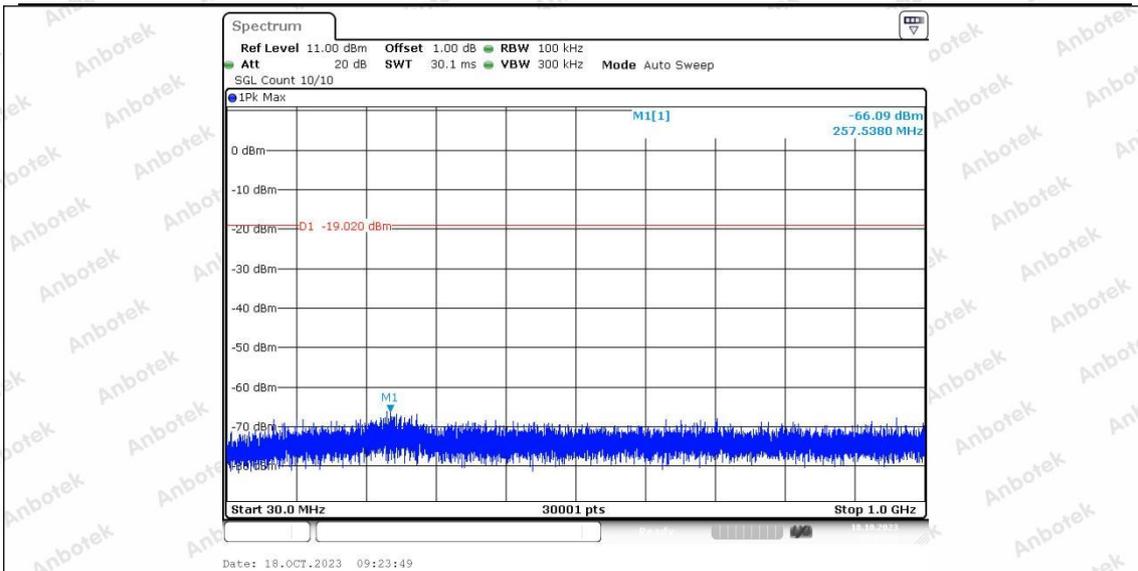


BLE_1M_Ant1_2440_0~Reference

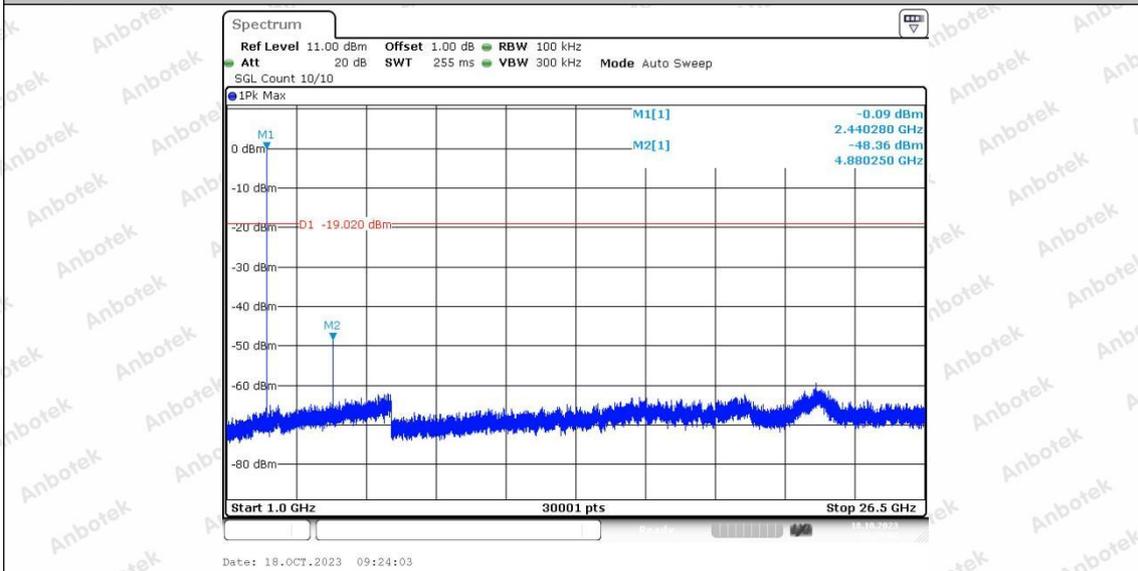


BLE_1M_Ant1_2440_30~1000





BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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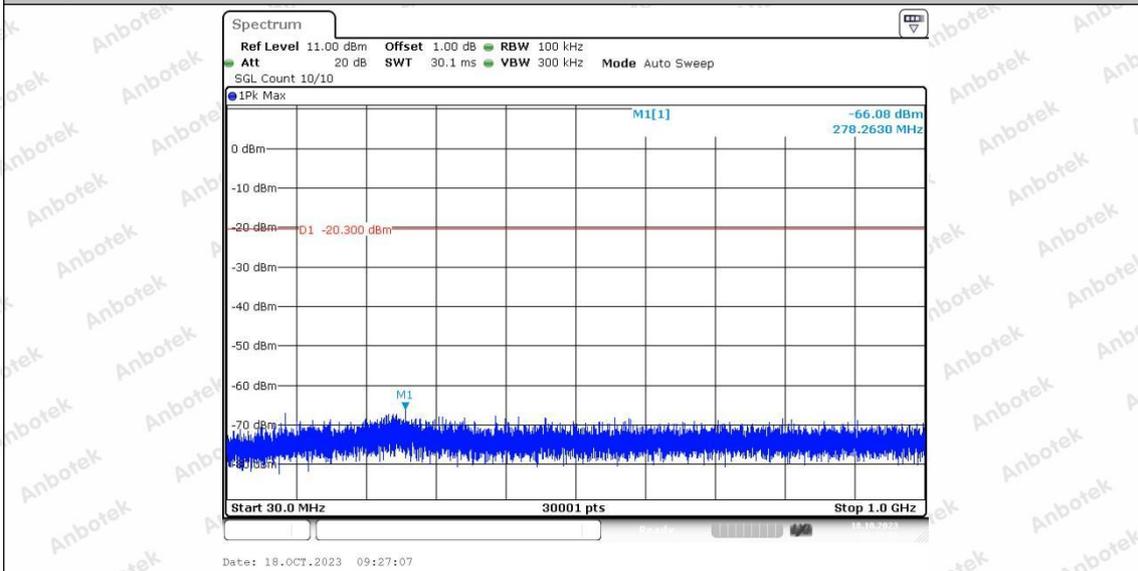
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BLE_1M_Ant1_2480_30~1000



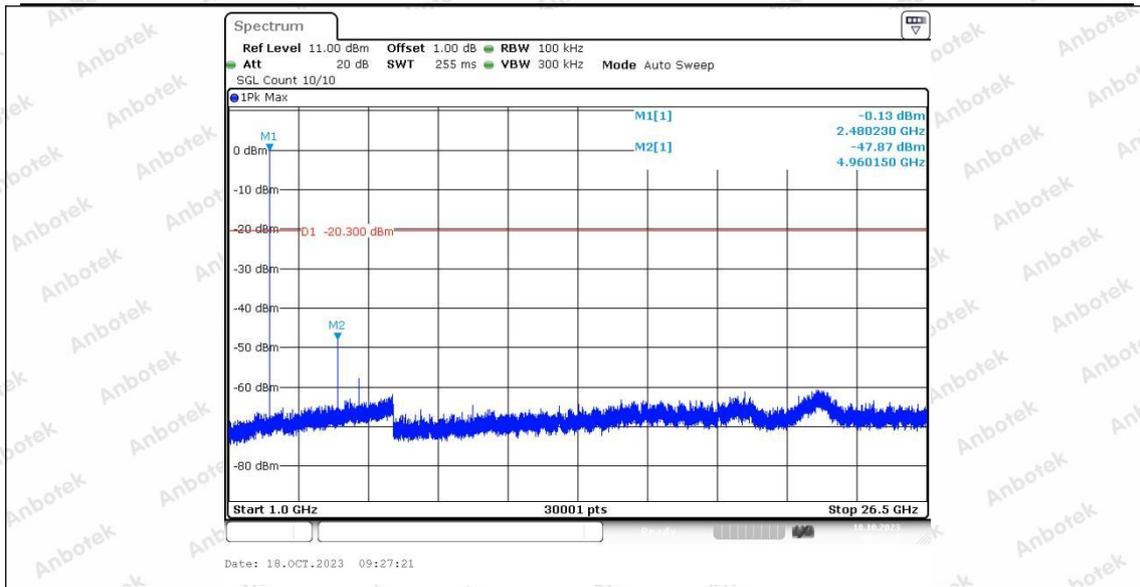
BLE_1M_Ant1_2480_1000~26500

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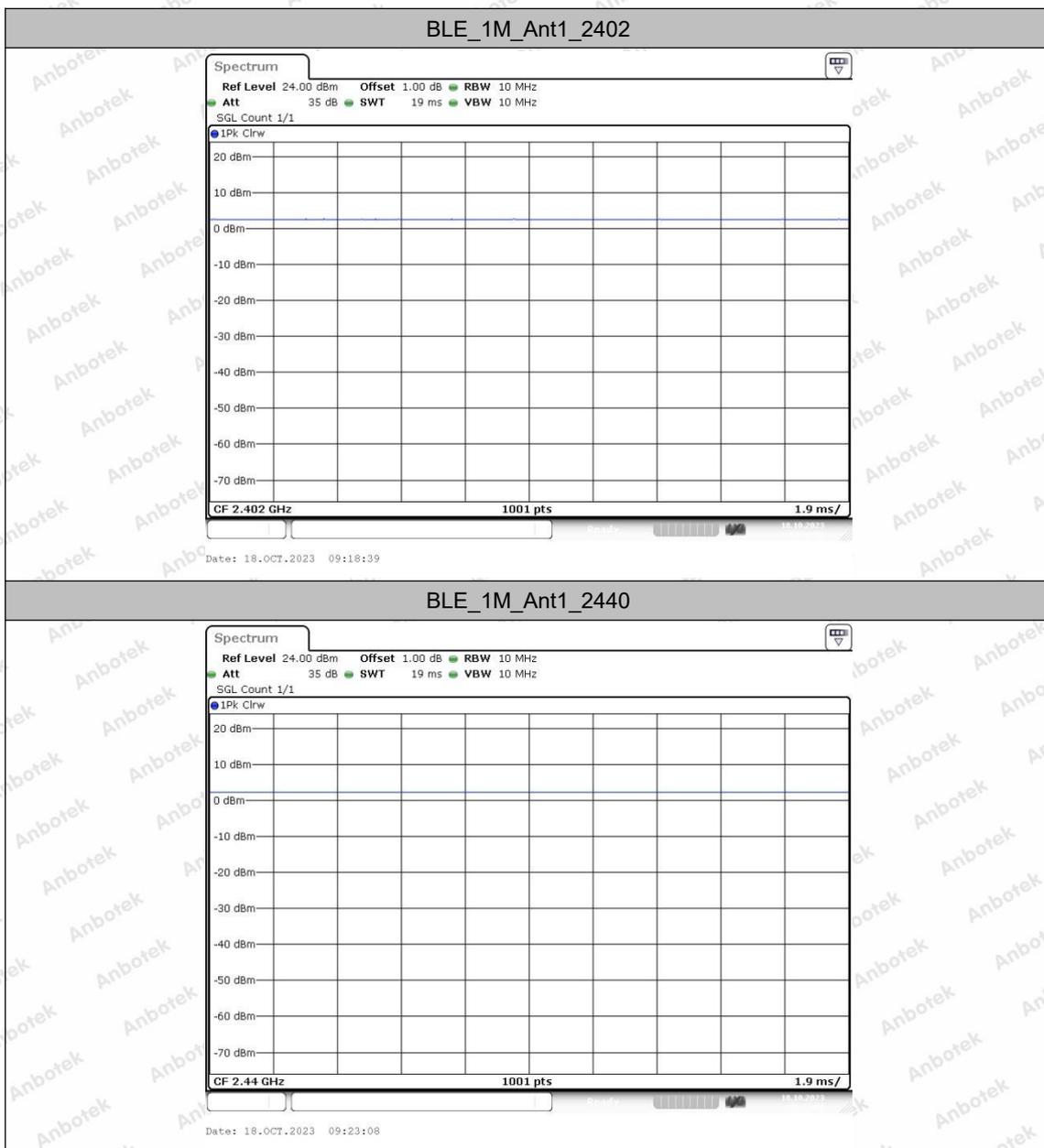


Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	19.00	19.00	100	0.00
		2440	19.00	19.00	100	0.00
		2480	19.00	19.00	100	0.00

Test Graphs





---End---

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