

Appendix Test Data

Report No.:	18220WC30184401	Test Sample No.:	1-2-2
Start Test Date:	2023.08.30	Finish Test Date:	2023.09.01
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.4°C	Relative Humidity:	48%
Pressure:	102kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.676	2402.340	0.5	PASS
		2440	0.656	2439.672	2440.328	0.5	PASS
		2480	0.664	2479.676	2480.340	0.5	PASS
BLE_2M	Ant1	2402	1.364	2401.308	2402.672	0.5	PASS
		2440	1.276	2439.336	2440.612	0.5	PASS
		2480	1.388	2479.276	2480.664	0.5	PASS

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Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



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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	1.0263	2401.4850	2402.5113
		2440	1.0381	2439.4822	2440.5203
		2480	1.0498	2479.4801	2480.5299
BLE_2M	Ant1	2402	2.0440	2400.9731	2403.0171
		2440	2.0812	2438.9588	2441.0400
		2480	2.0806	2478.9571	2481.0377

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Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	6.41	≤30	PASS
		2440	7.03	≤30	PASS
		2480	7.16	≤30	PASS
BLE_2M	Ant1	2402	6.43	≤30	PASS
		2440	7.08	≤30	PASS
		2480	7.17	≤30	PASS

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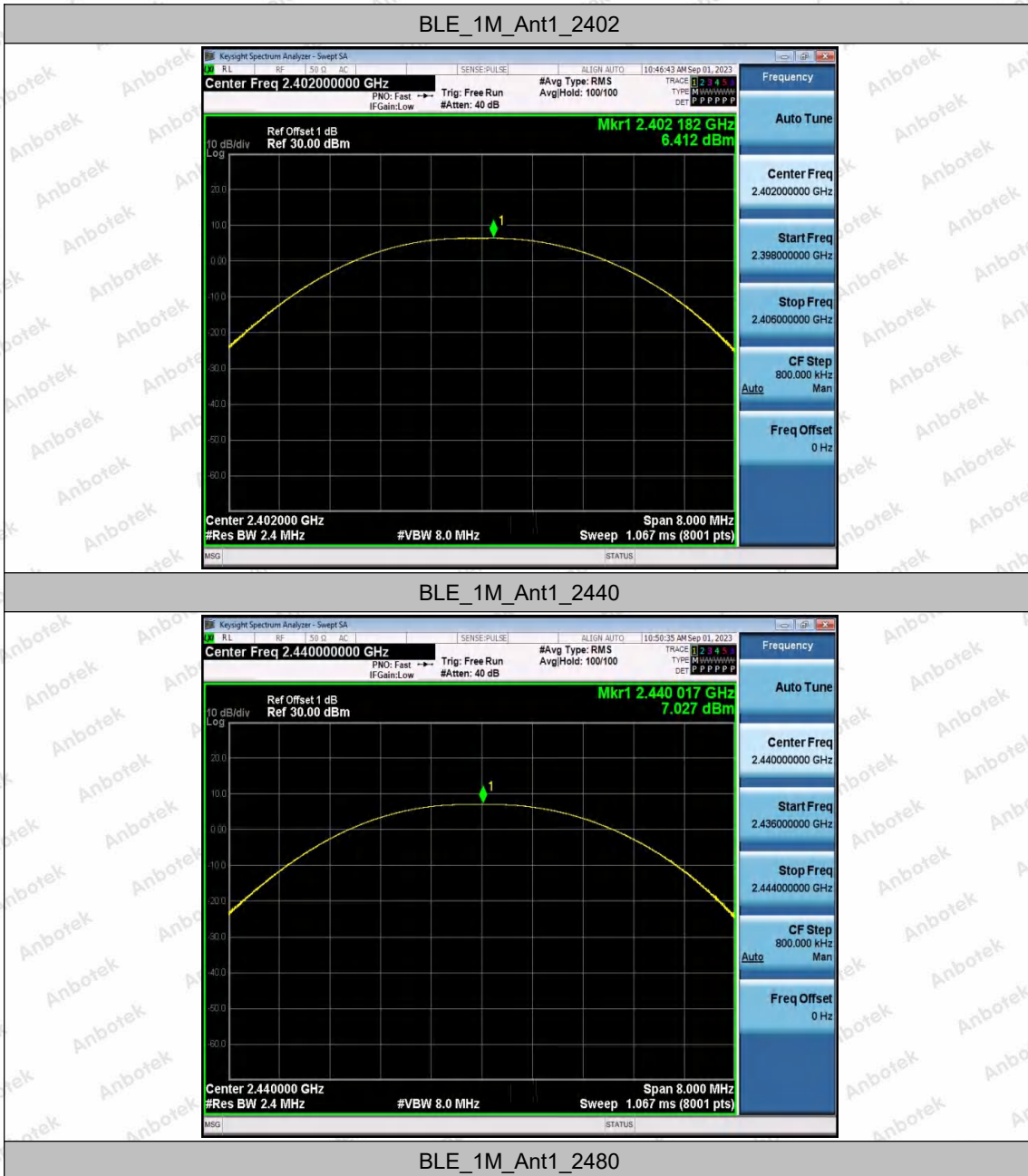
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Test Graphs Peak



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BLE_2M_Ant1_2402



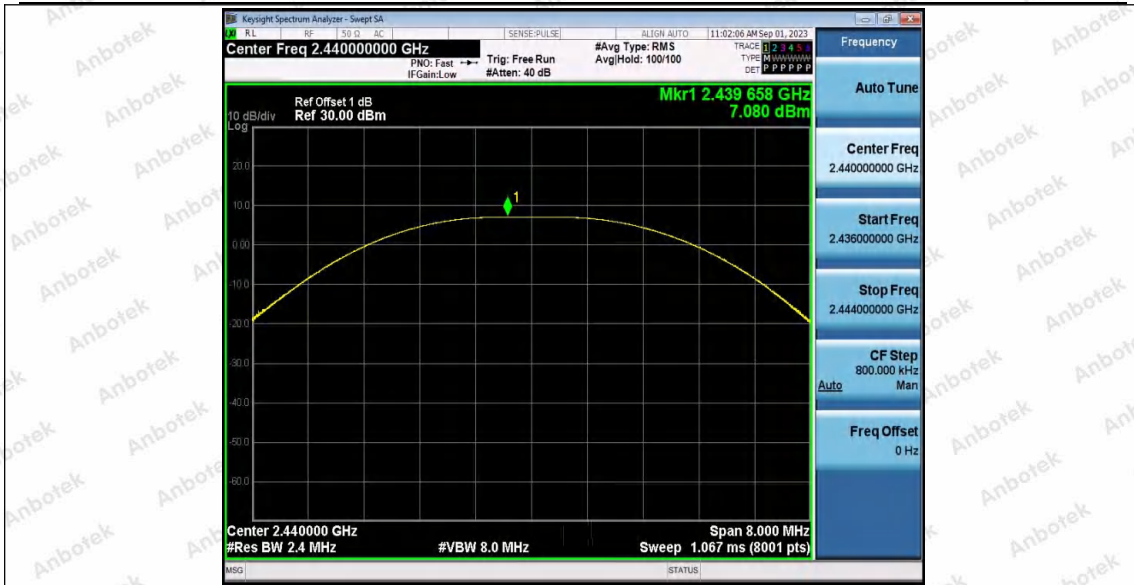
BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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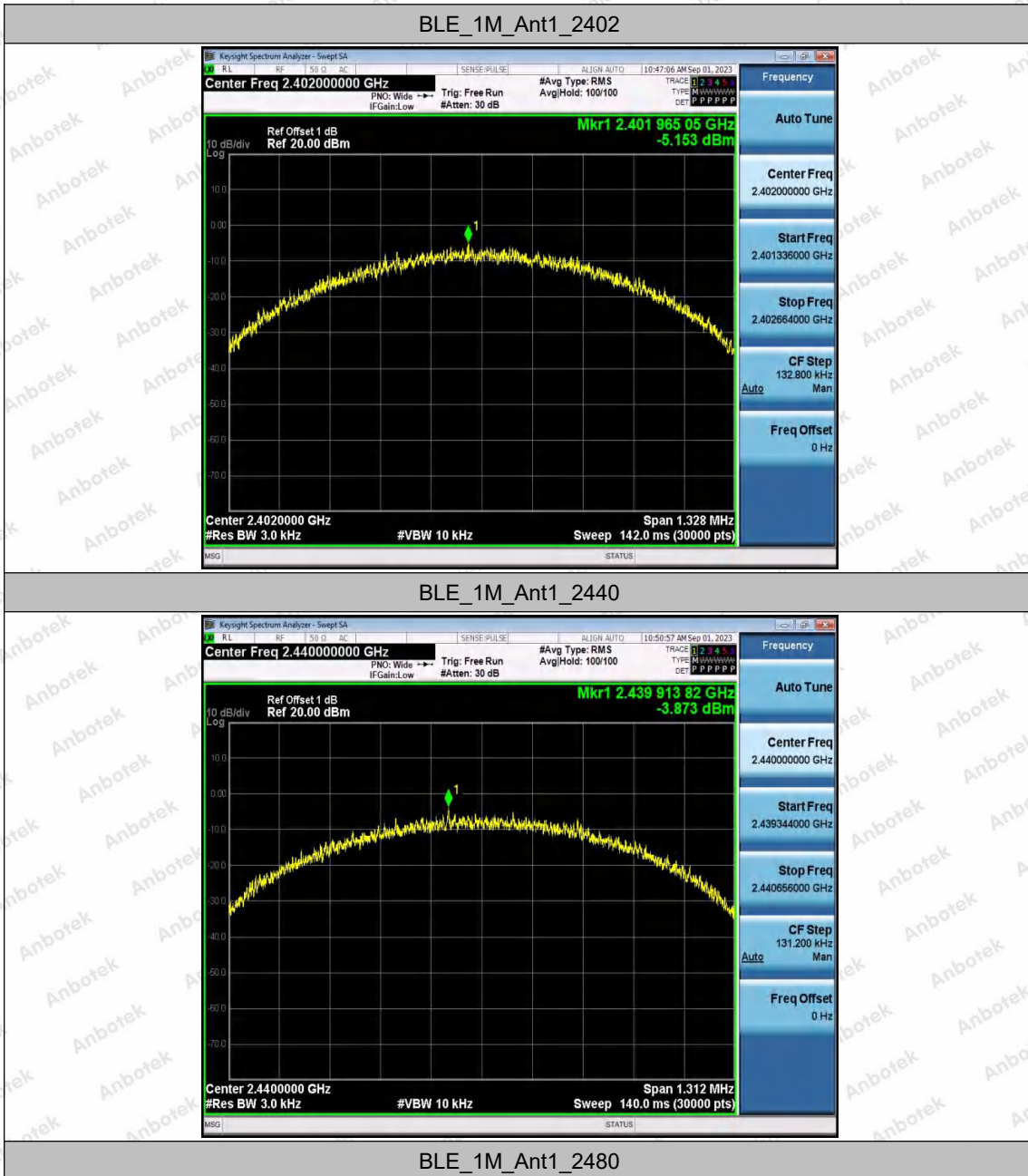
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-5.15	≤8.00	PASS
		2440	-3.87	≤8.00	PASS
		2480	-3.87	≤8.00	PASS
BLE_2M	Ant1	2402	-8.27	≤8.00	PASS
		2440	-7.02	≤8.00	PASS
		2480	-7.91	≤8.00	PASS



Test Graphs



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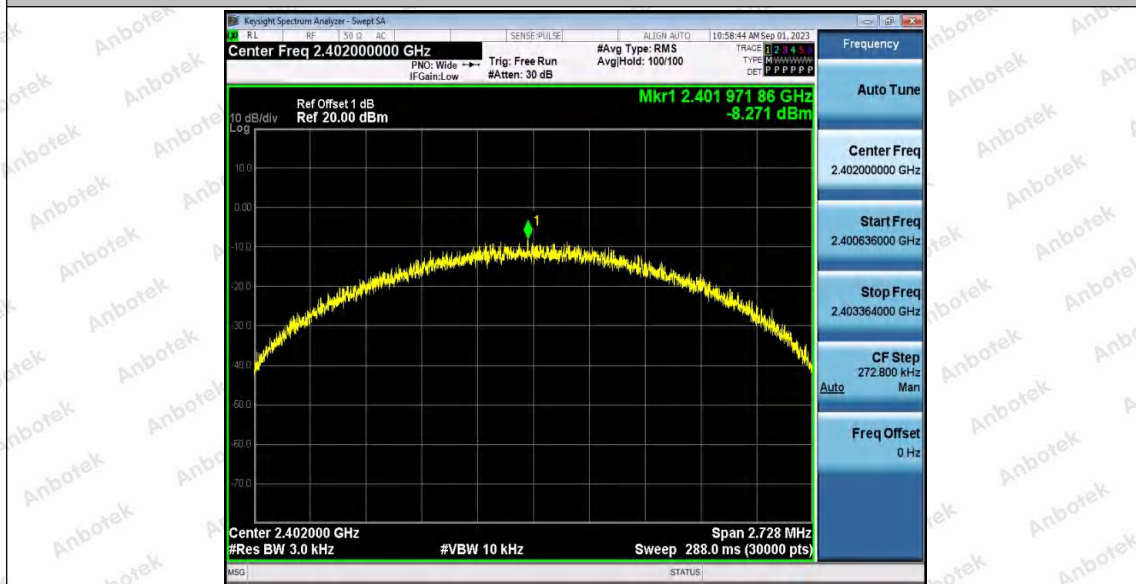
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BLE_2M_Ant1_2402



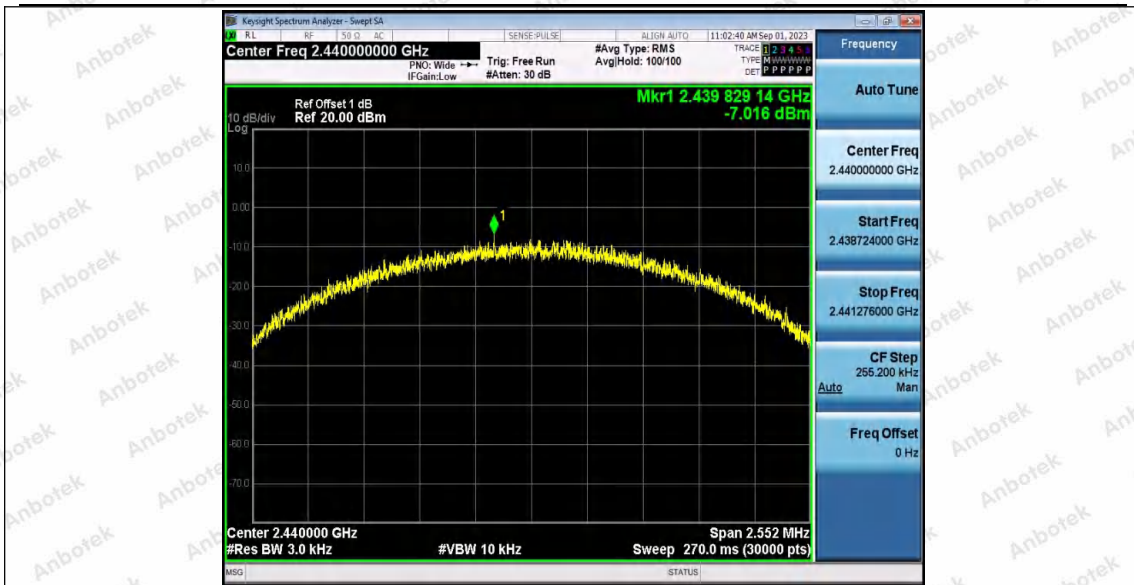
BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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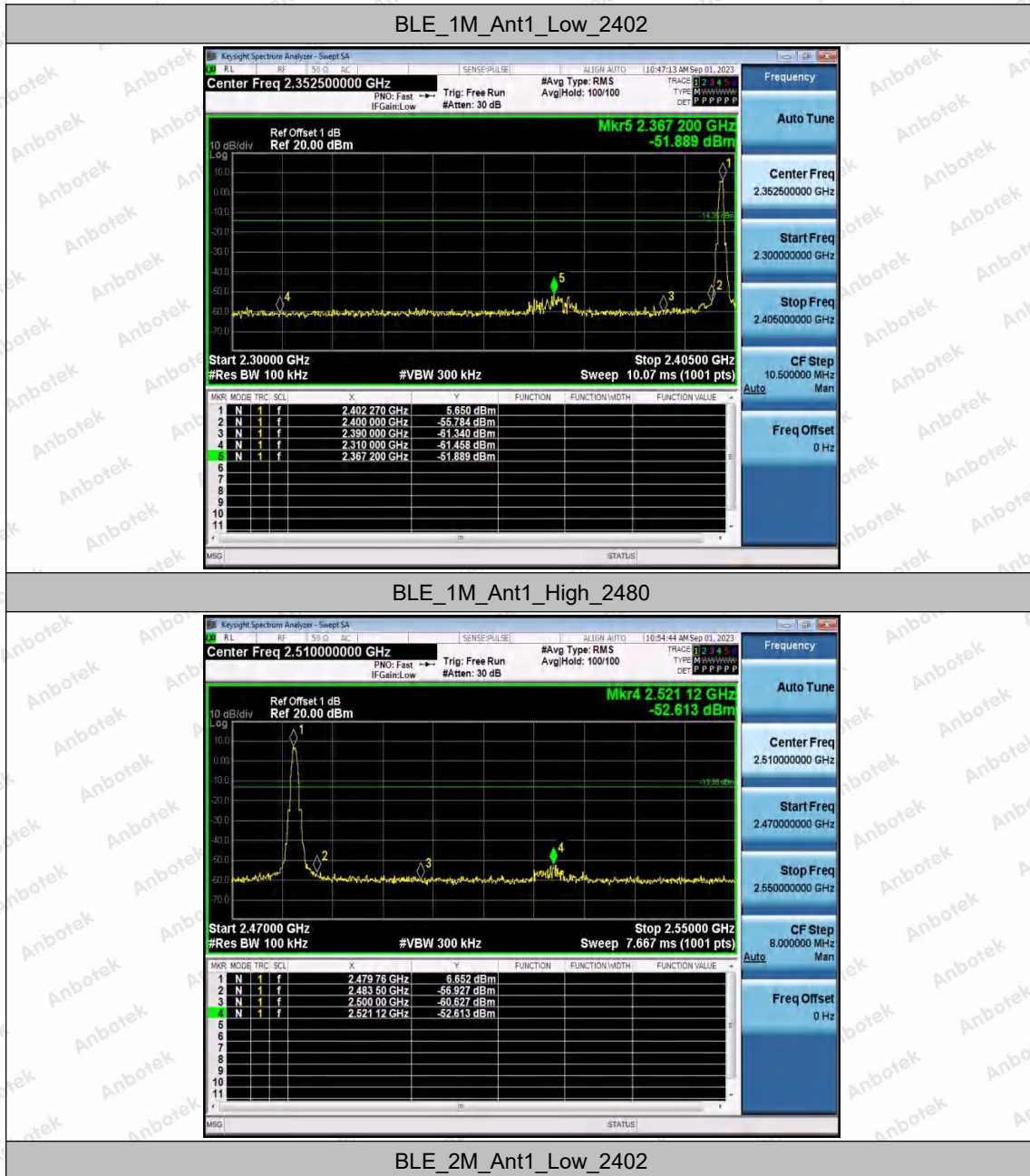
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	5.65	-51.89	≤-14.35	PASS
		High	2480	6.65	-52.61	≤-13.35	PASS
BLE_2M	Ant1	Low	2402	5.01	-28.86	≤-14.99	PASS
		High	2480	5.03	-50.91	≤-14.97	PASS



Test Graphs



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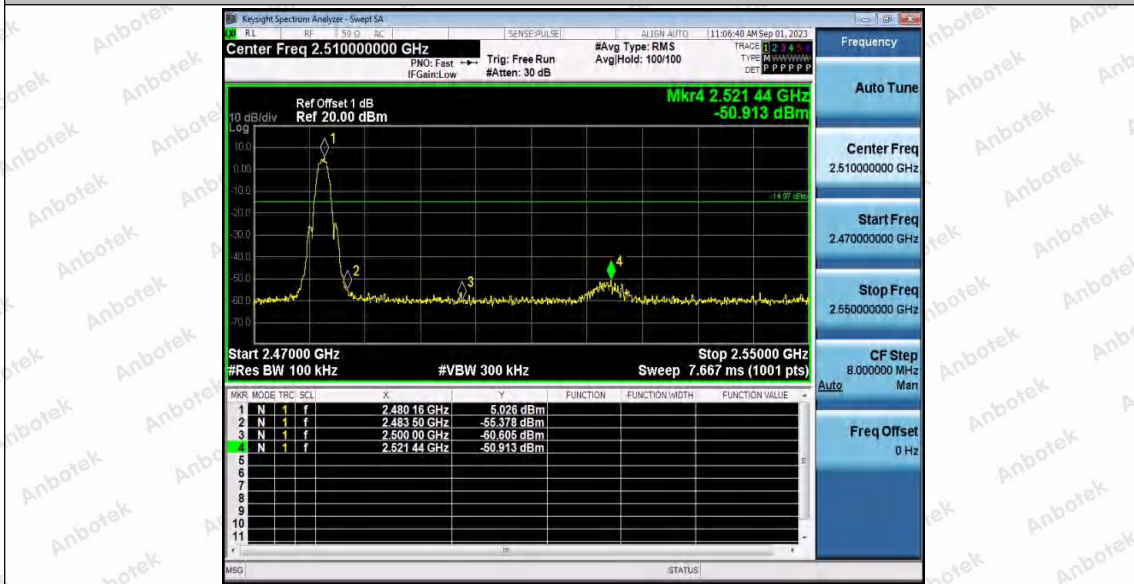
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BLE_2M_Ant1_High_2480



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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	4.92	4.92	---	PASS
			30~1000	4.92	-69.24	≤-15.08	PASS
			1000~26500	4.92	-28.39	≤-15.08	PASS
		2440	Reference	5.61	5.61	---	PASS
			30~1000	5.61	-69.2	≤-14.39	PASS
			1000~26500	5.61	-26.27	≤-14.39	PASS
		2480	Reference	6.09	6.09	---	PASS
			30~1000	6.09	-68.92	≤-13.91	PASS
			1000~26500	6.09	-27.94	≤-13.91	PASS
BLE_2M	Ant1	2402	Reference	3.46	3.46	---	PASS
			30~1000	3.46	-69.21	≤-16.54	PASS
			1000~26500	3.46	-30.2	≤-16.54	PASS
		2440	Reference	4.45	4.45	---	PASS
			30~1000	4.45	-68.99	≤-15.55	PASS
			1000~26500	4.45	-30.32	≤-15.55	PASS
		2480	Reference	4.33	4.33	---	PASS
			30~1000	4.33	-69.26	≤-15.67	PASS
			1000~26500	4.33	-30.13	≤-15.67	PASS



Test Graphs

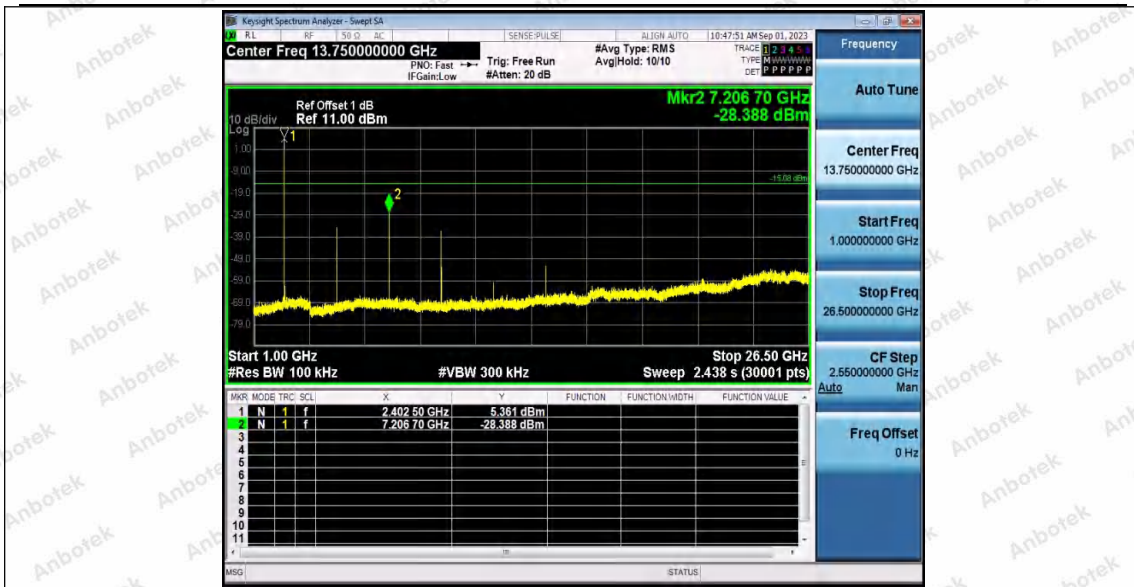


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BLE_1M_Ant1_2440_0~Reference



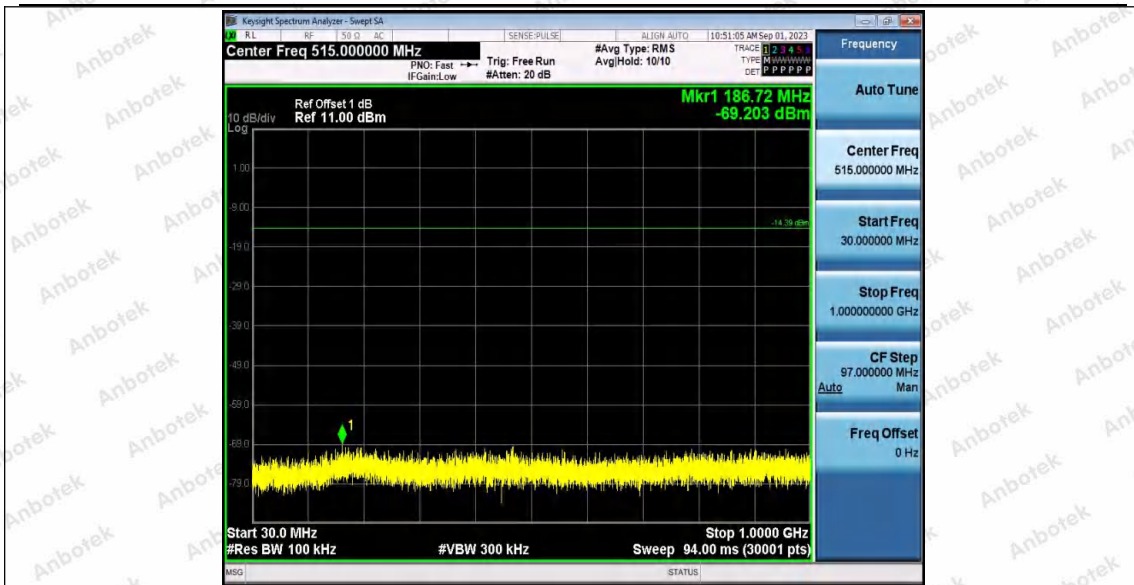
BLE_1M_Ant1_2440_30~1000

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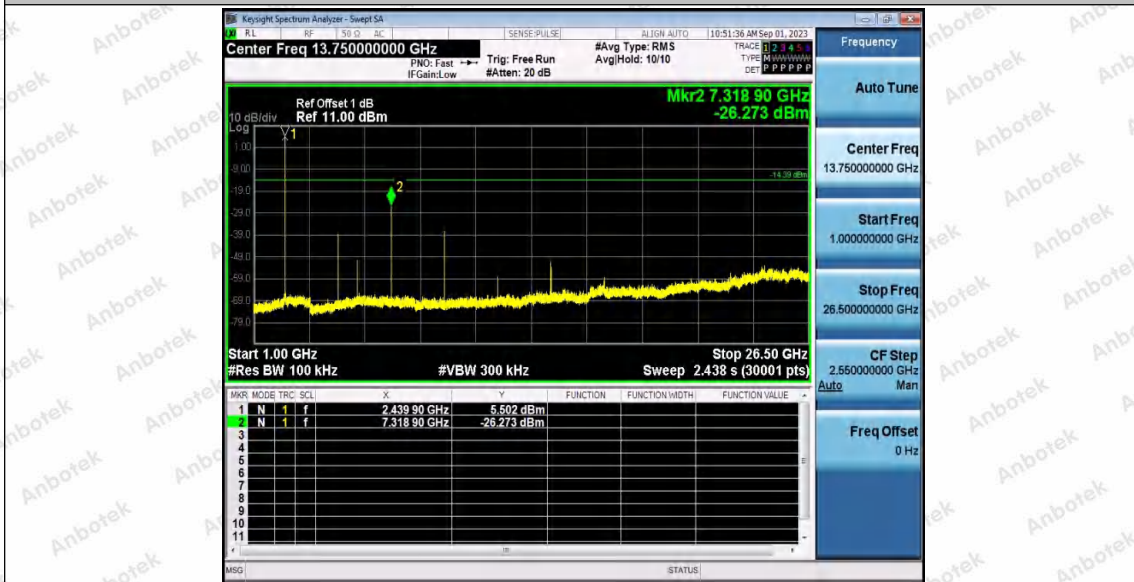
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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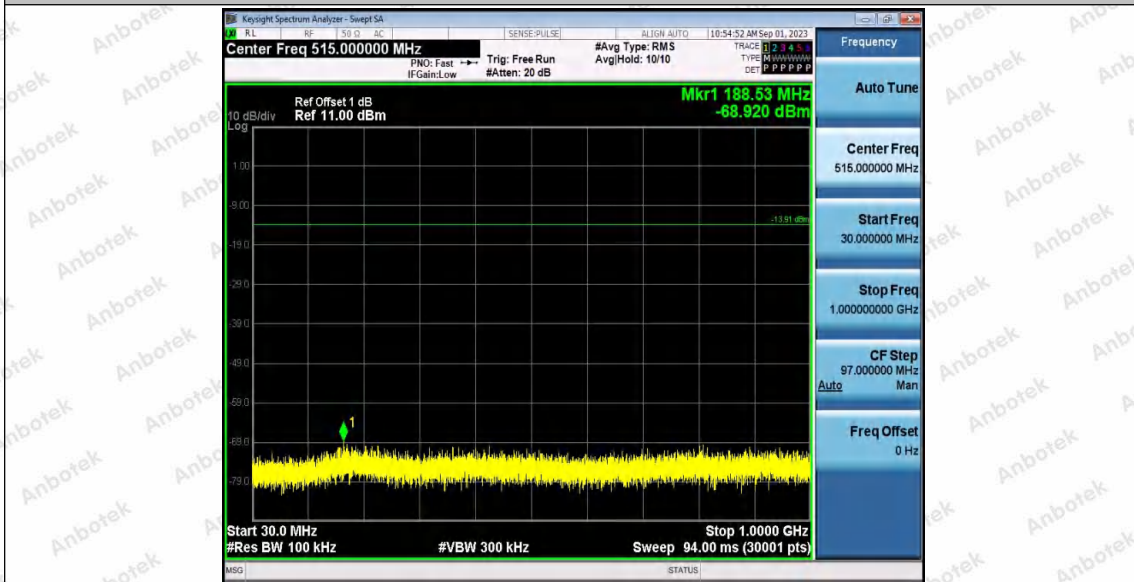
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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

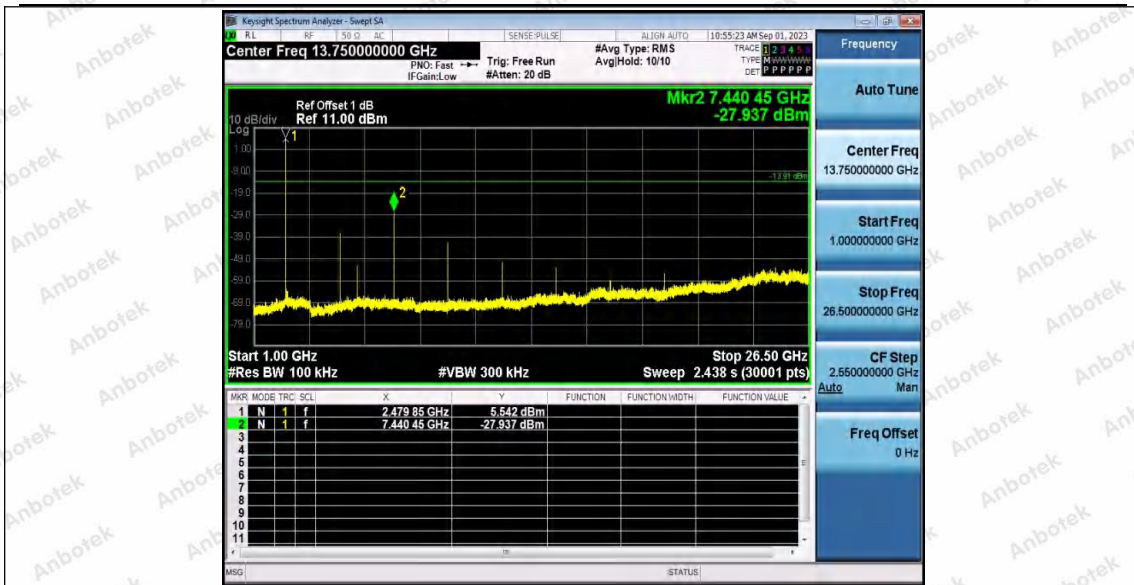
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BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000

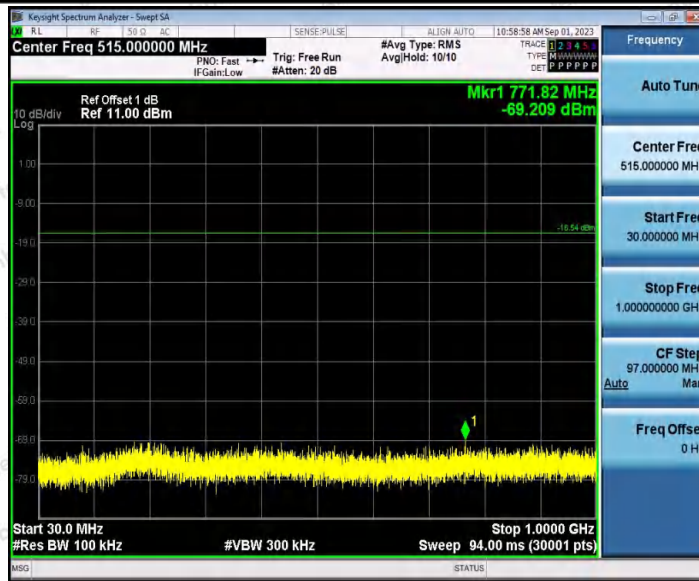
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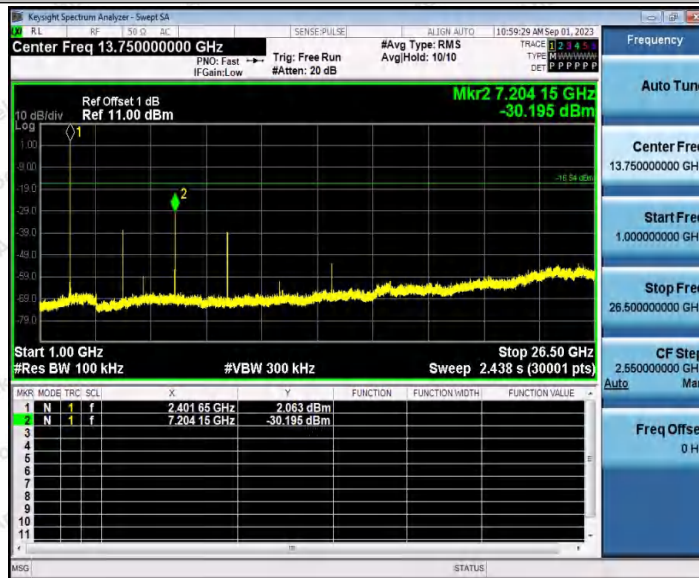


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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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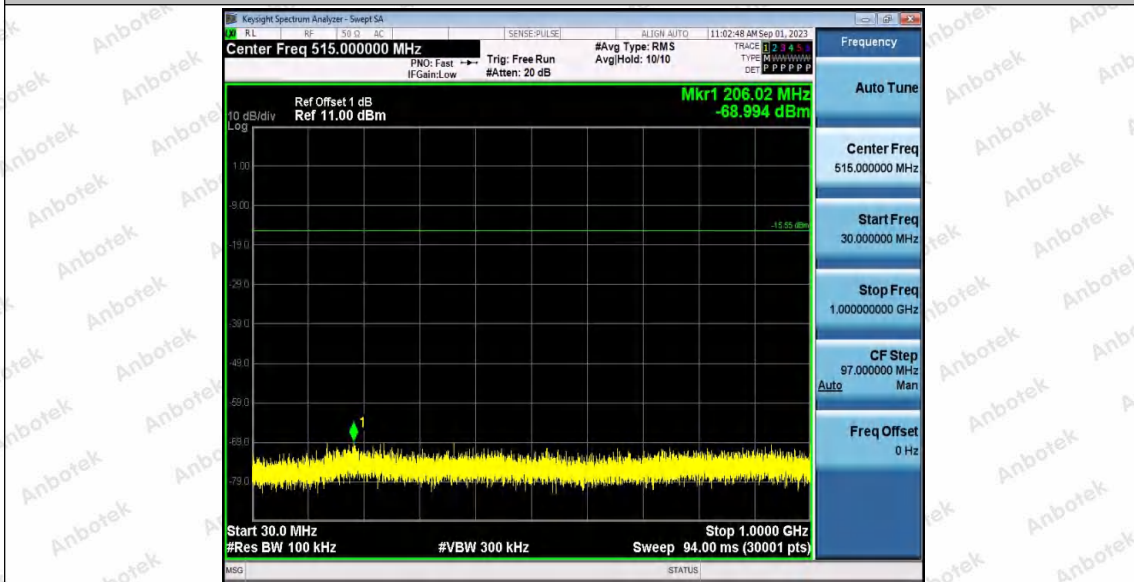
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BLE_2M_Ant1_2440_30~1000



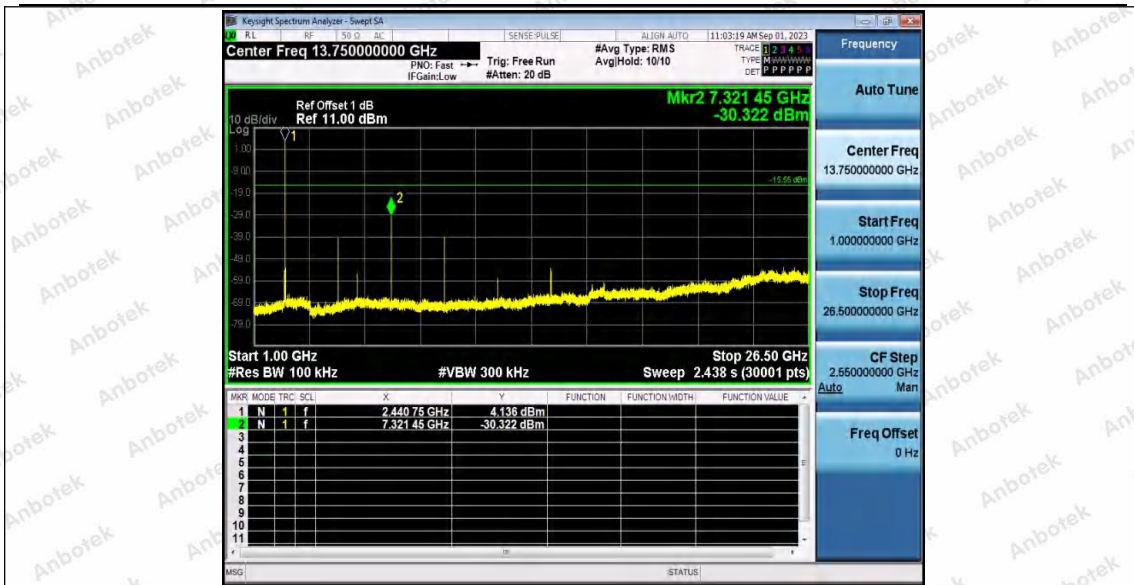
BLE_2M_Ant1_2440_1000~26500

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BLE_2M_Ant1_2480_0~Reference



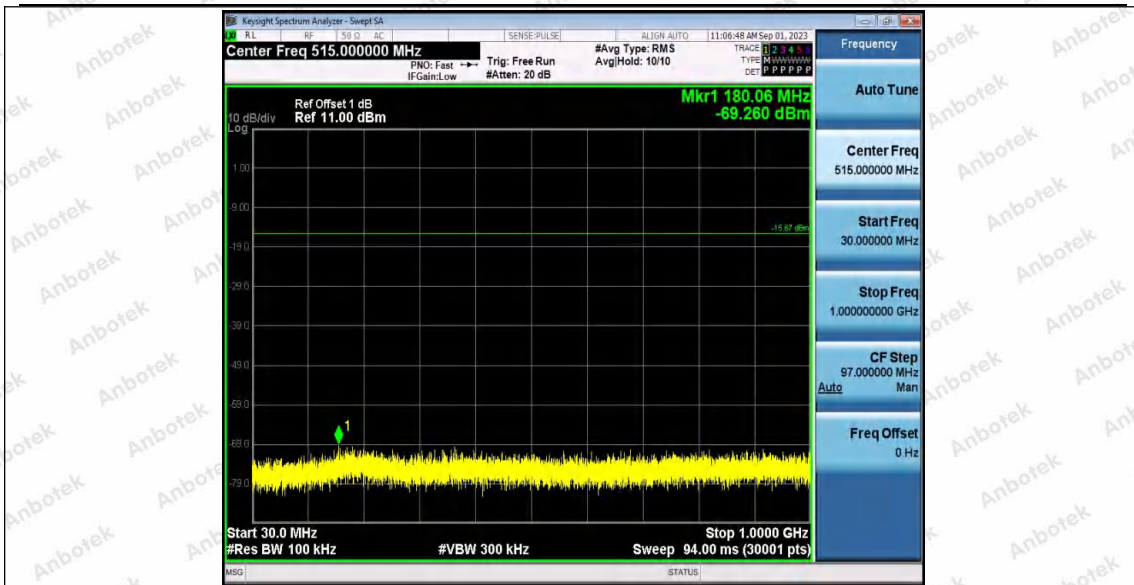
BLE_2M_Ant1_2480_30~1000

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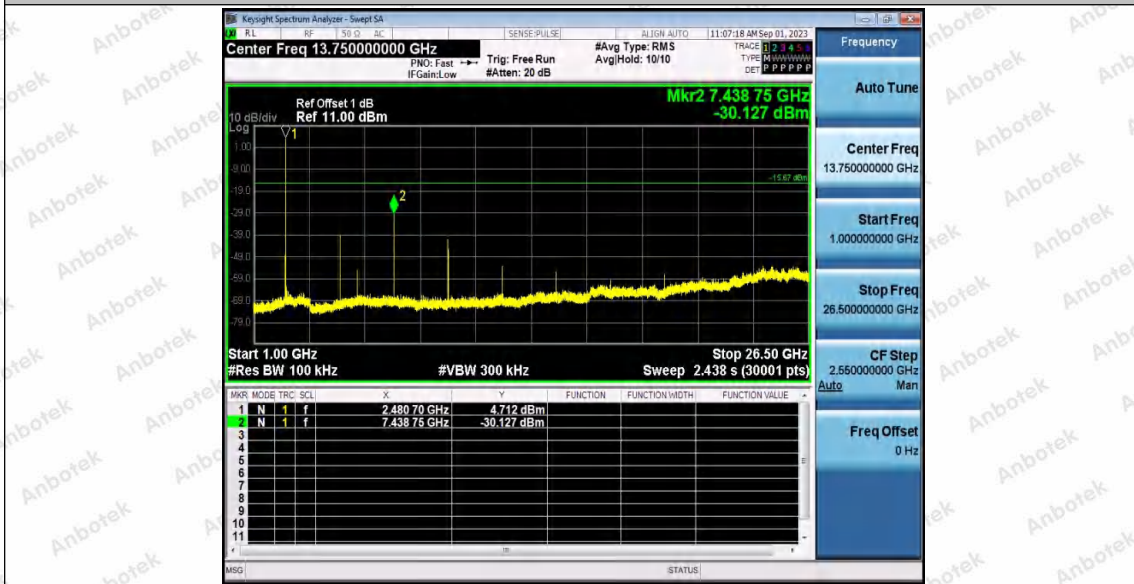
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BLE_2M_Ant1_2480_1000~26500



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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
BLE_2M	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

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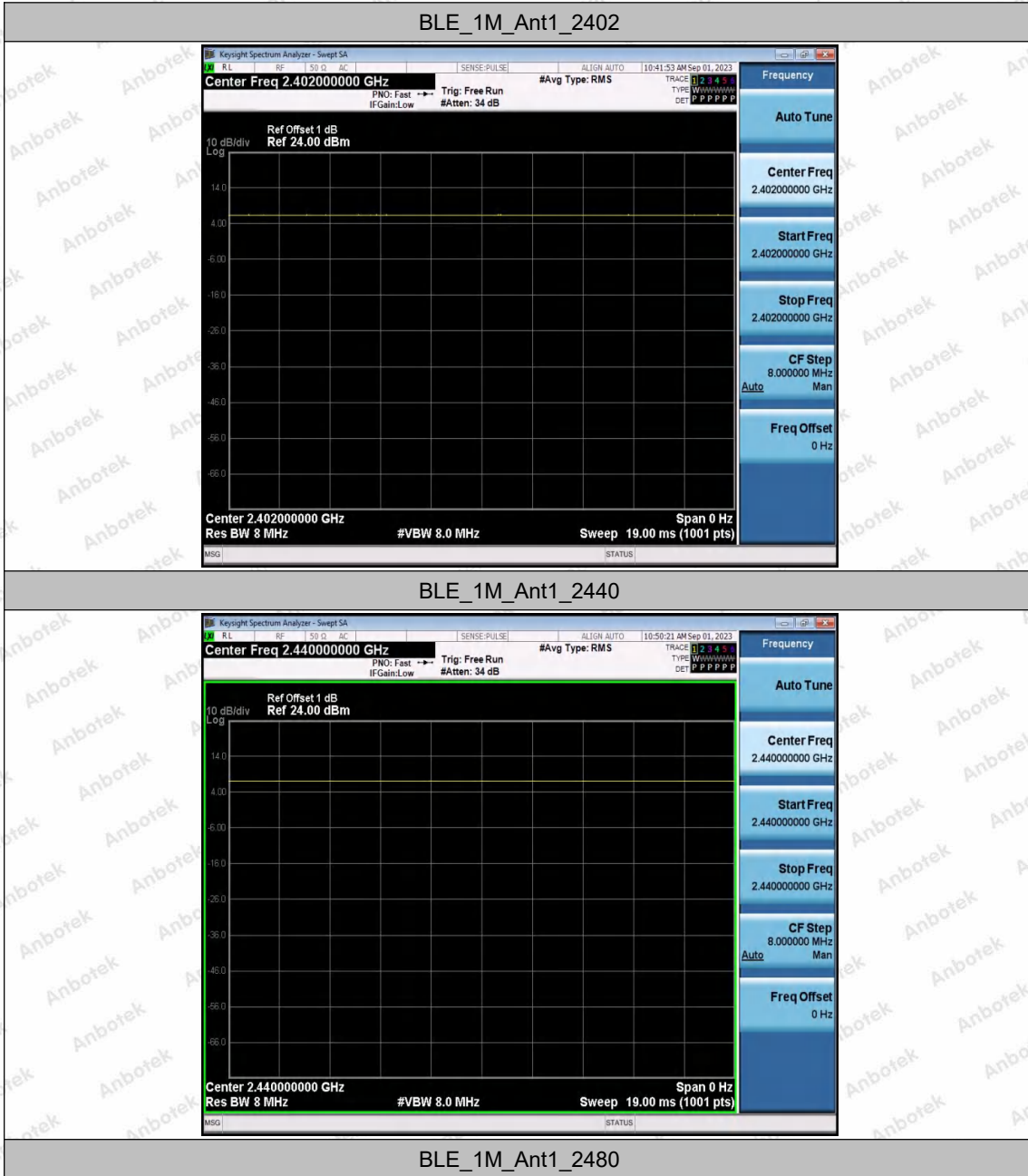
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Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

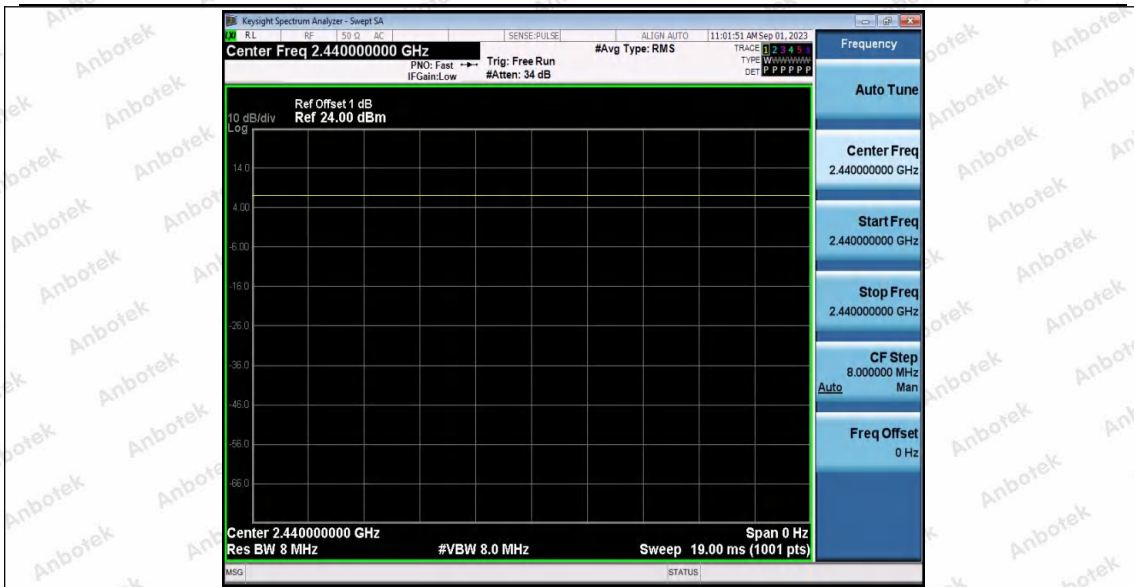
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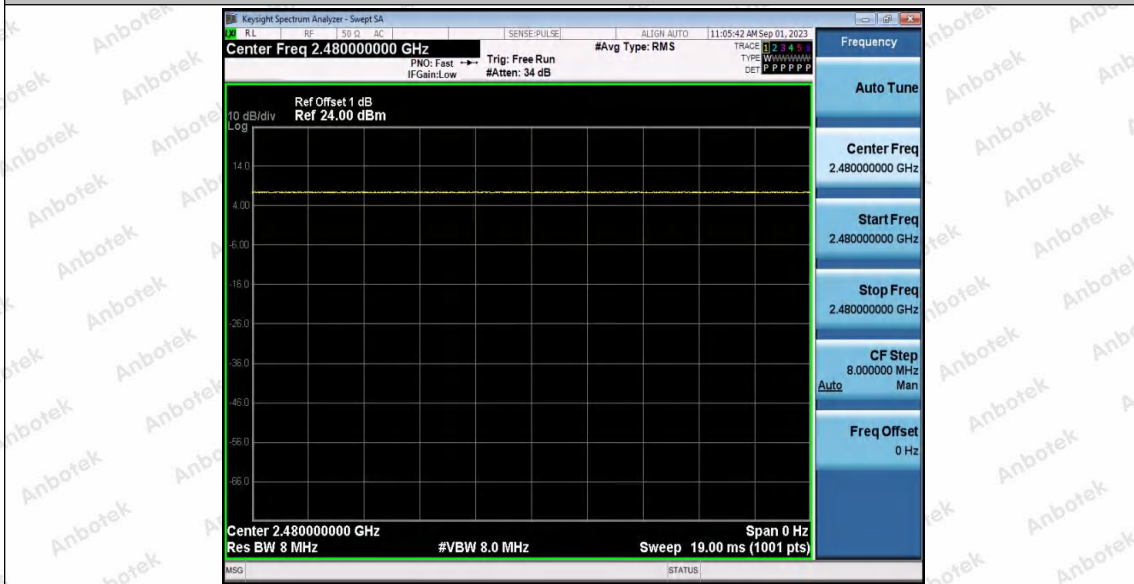


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BLE_2M_Ant1_2480



---End---

