

Appendix Test Data

Report No.:	18220WC30127601	Test Sample No.:	1-2-2
Start Test Date:	2023.06.26	Finish Test Date:	2023.06.27
Test Engineer:	RICK Luo	Auditor:	Edward Pan
Temperature:	25.1°C	Relative Humidity:	49%
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.792	2401.636	2402.428	0.5	PASS
		2440	0.744	2439.644	2440.388	0.5	PASS
		2480	0.748	2479.628	2480.376	0.5	PASS
BLE_2M	Ant1	2402	1.028	2401.484	2402.512	0.5	PASS
		2440	1.024	2439.480	2440.504	0.5	PASS
		2480	1.036	2479.484	2480.520	0.5	PASS

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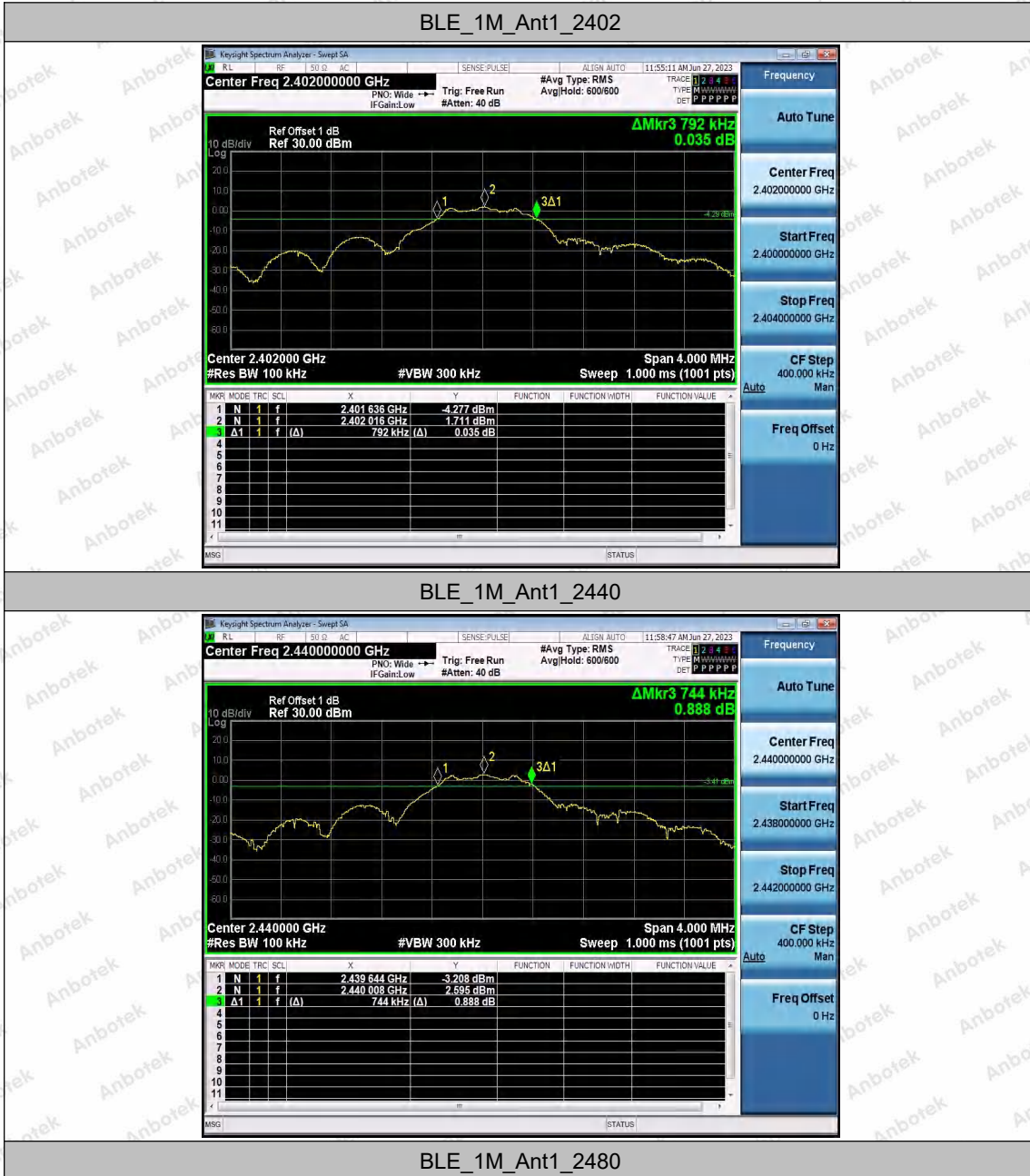
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Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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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	1.8608	2401.0293	2402.8901
		2440	1.7772	2439.0758	2440.8530
		2480	1.4263	2479.2538	2480.6801
BLE_2M	Ant1	2402	2.2484	2400.8810	2403.1294
		2440	2.2659	2438.8749	2441.1408
		2480	2.2633	2478.8844	2481.1477

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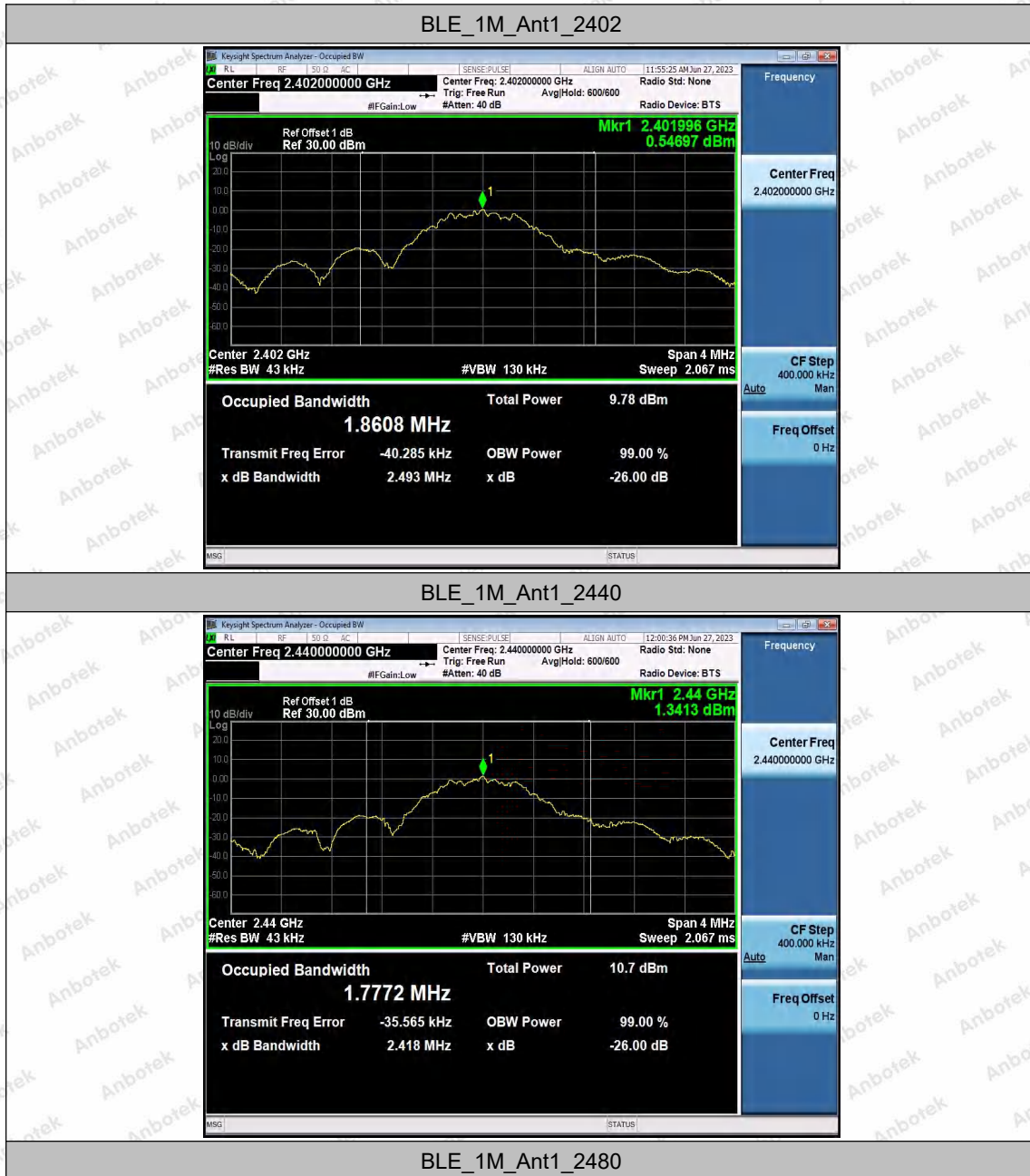
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.19	≤30	PASS
		2440	3.07	≤30	PASS
		2480	4.21	≤30	PASS
BLE_2M	Ant1	2402	2.20	≤30	PASS
		2440	3.09	≤30	PASS
		2480	4.25	≤30	PASS

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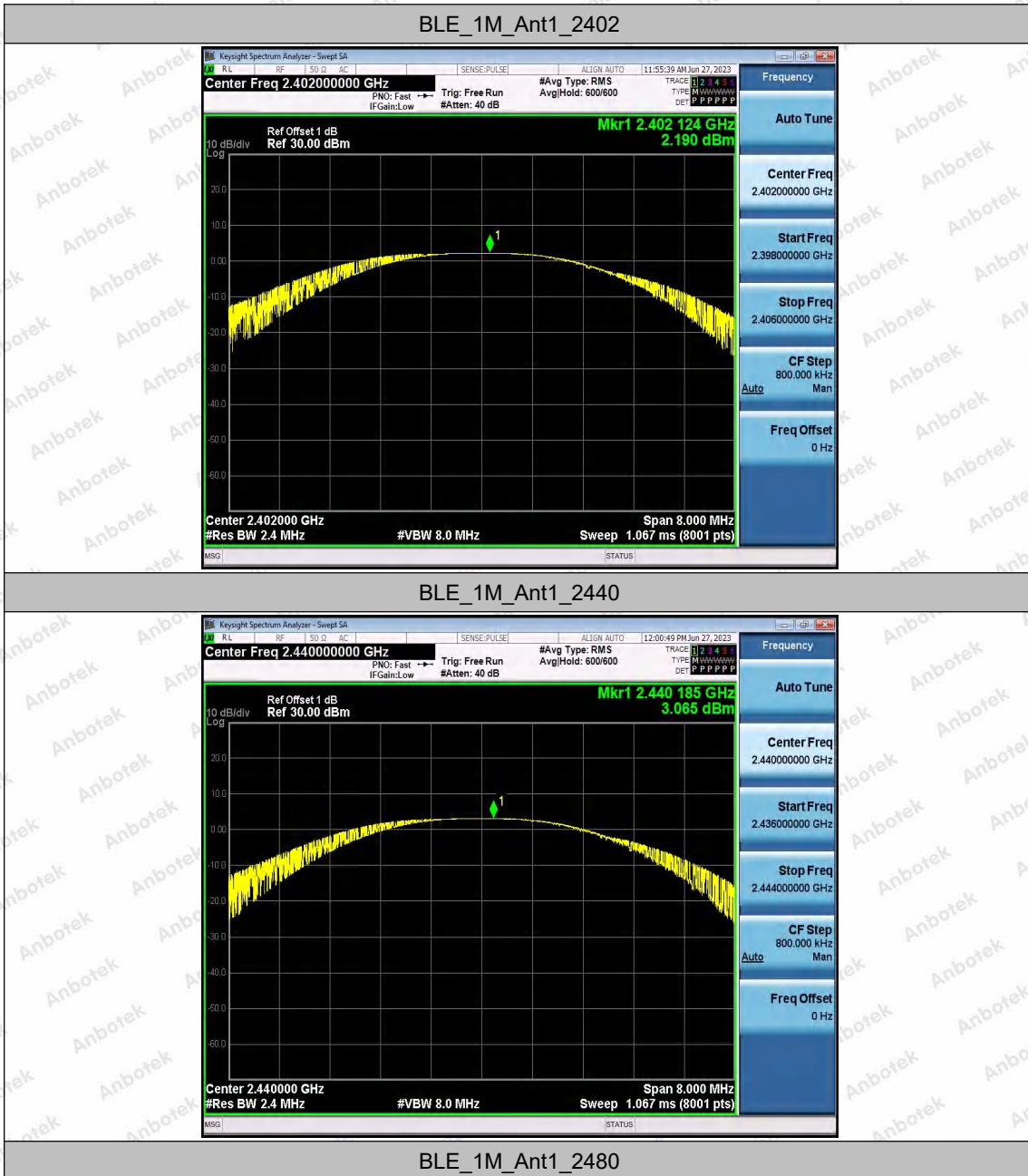
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Test Graphs Peak



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



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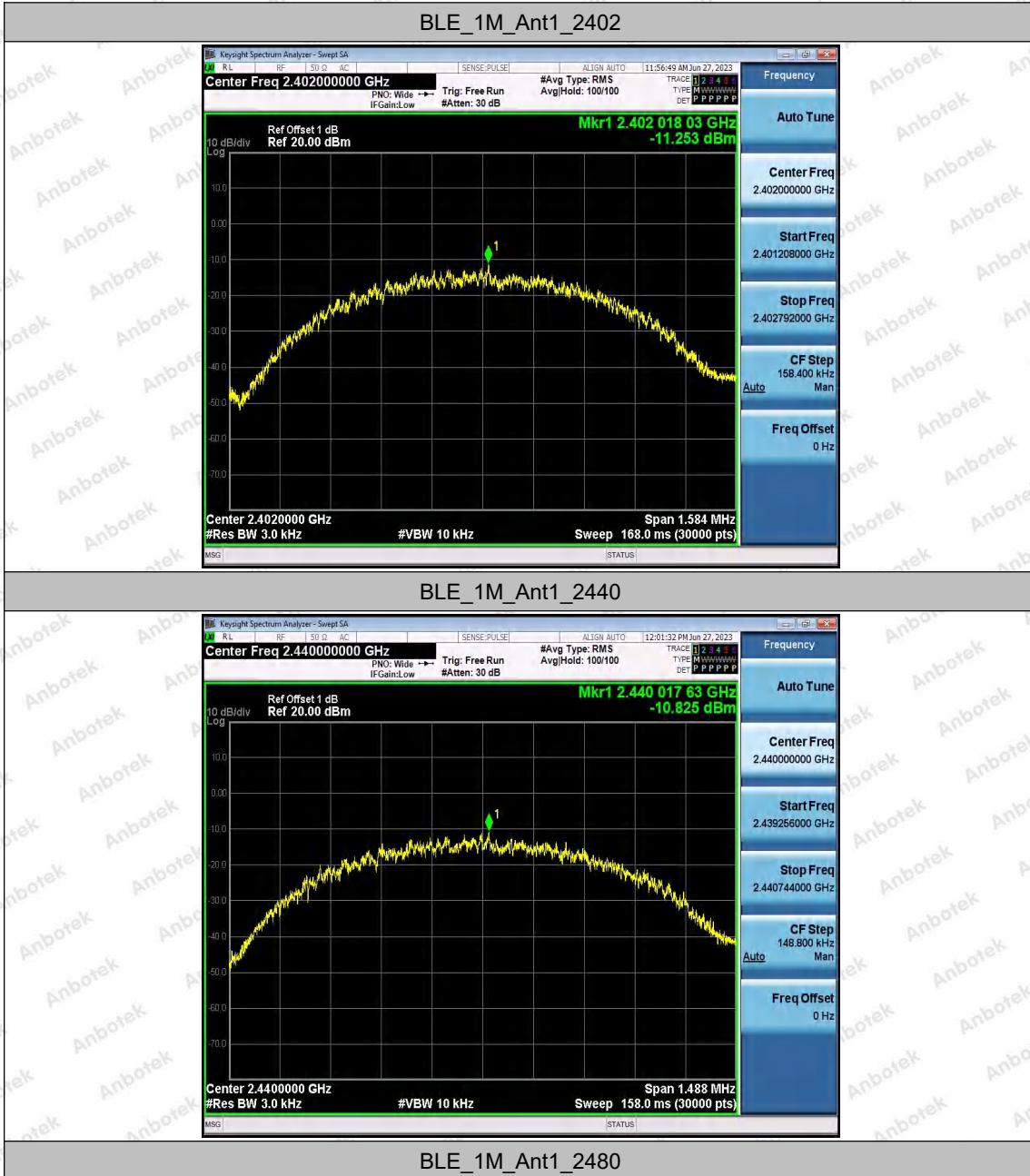
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.25	≤8.00	PASS
		2440	-10.83	≤8.00	PASS
		2480	-9.25	≤8.00	PASS
BLE_2M	Ant1	2402	-14.01	≤8.00	PASS
		2440	-12.14	≤8.00	PASS
		2480	-11.89	≤8.00	PASS



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

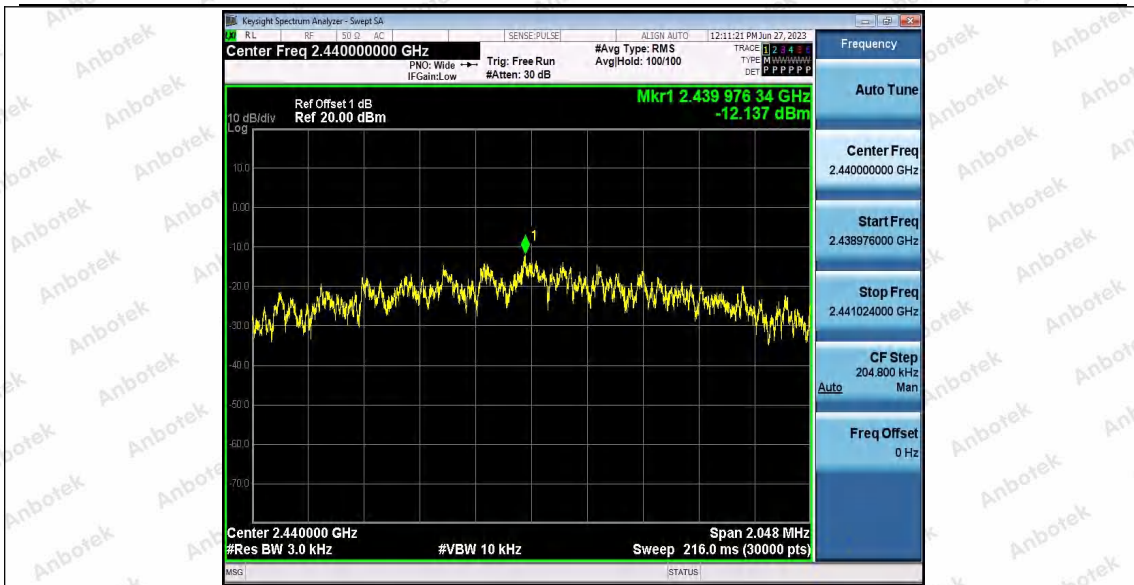
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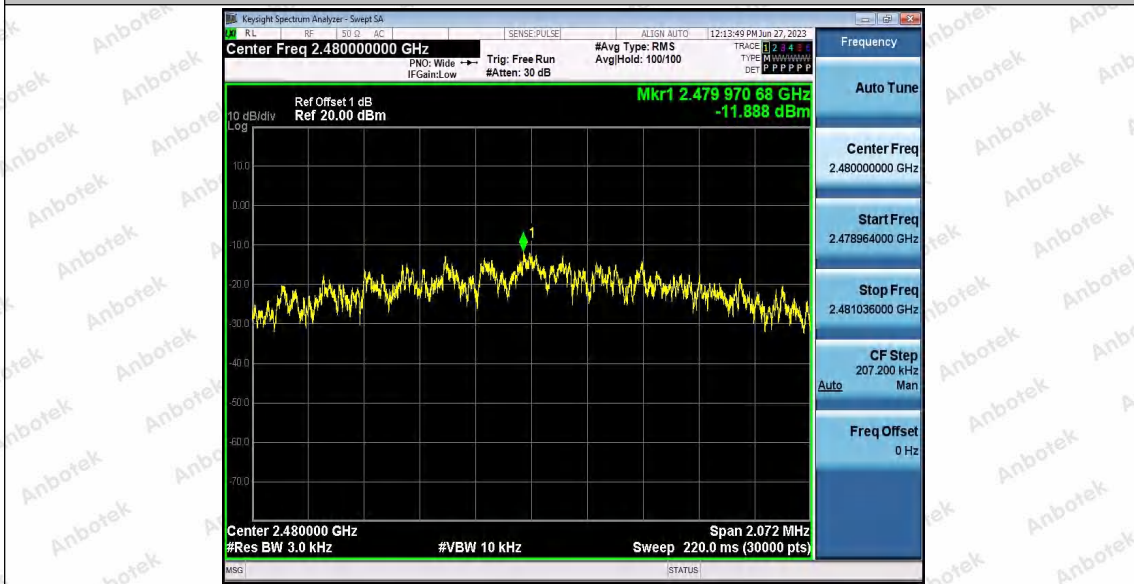


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BLE_2M_Ant1_2480



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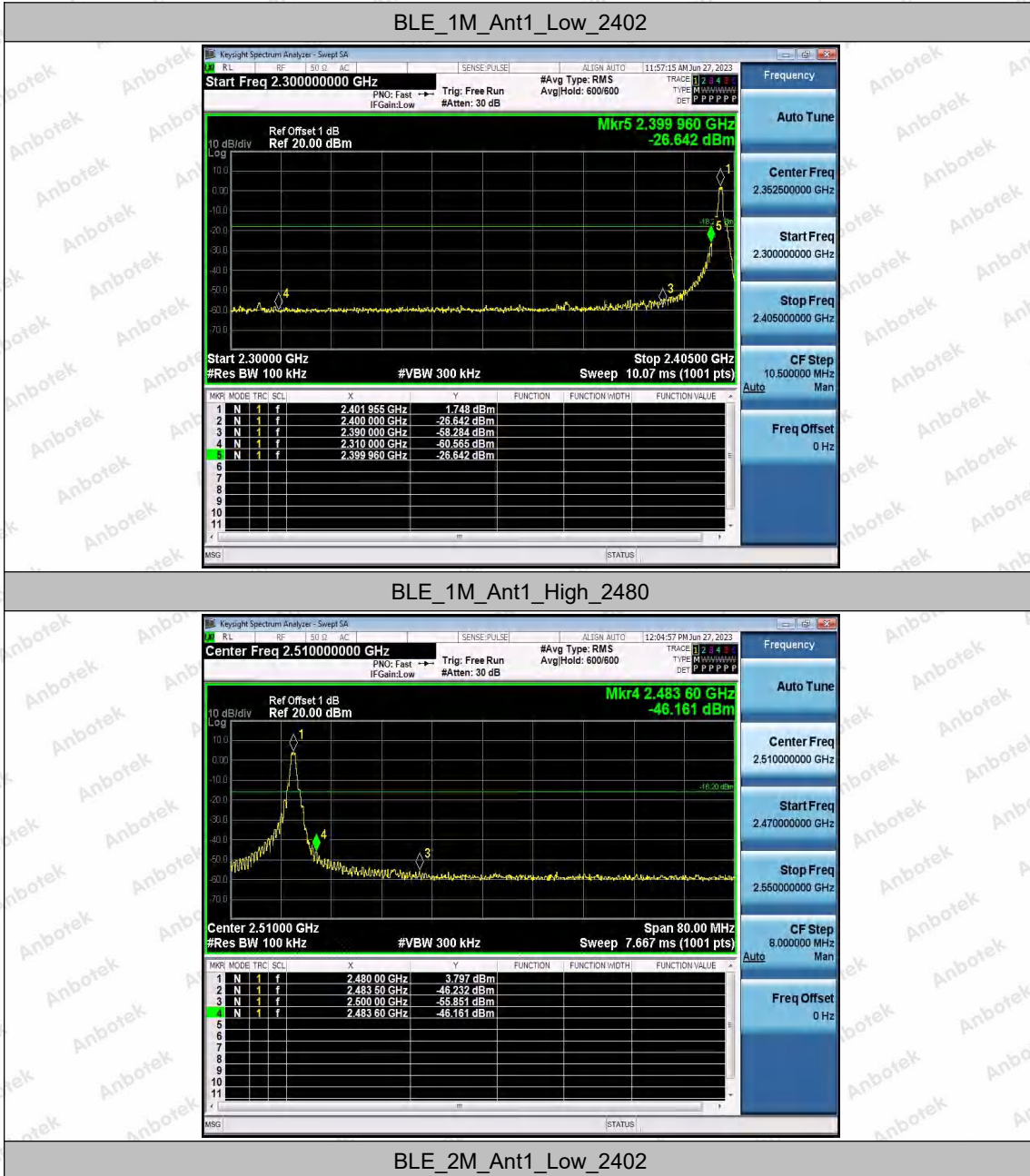
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.75	-26.64	≤-18.25	PASS
		High	2480	3.80	-46.16	≤-16.2	PASS
BLE_2M	Ant1	Low	2402	1.61	-26.33	≤-18.39	PASS
		High	2480	3.69	-46.13	≤-16.31	PASS



Test Graphs

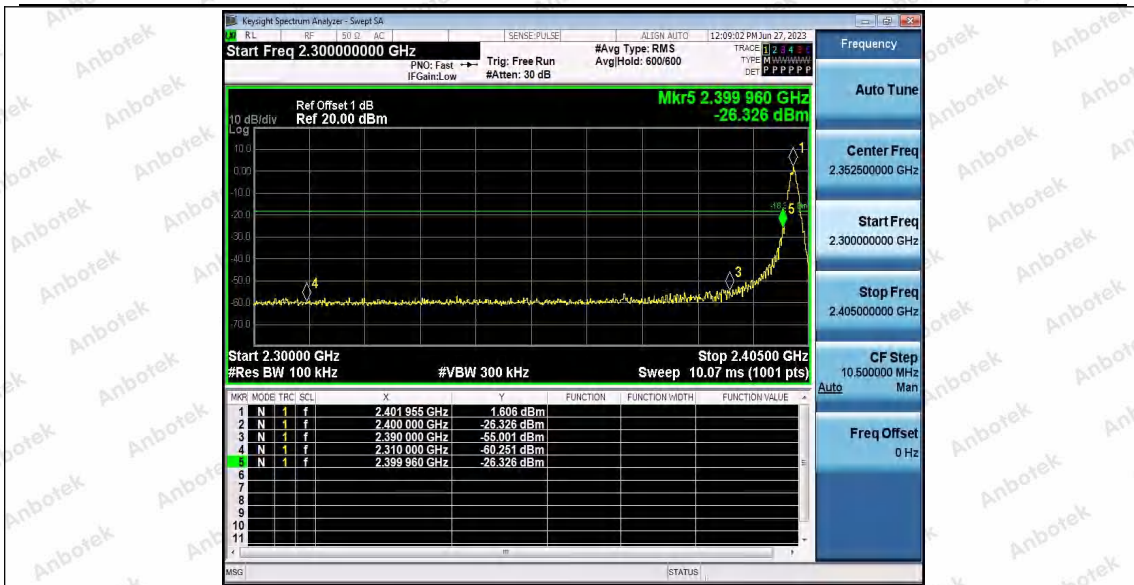


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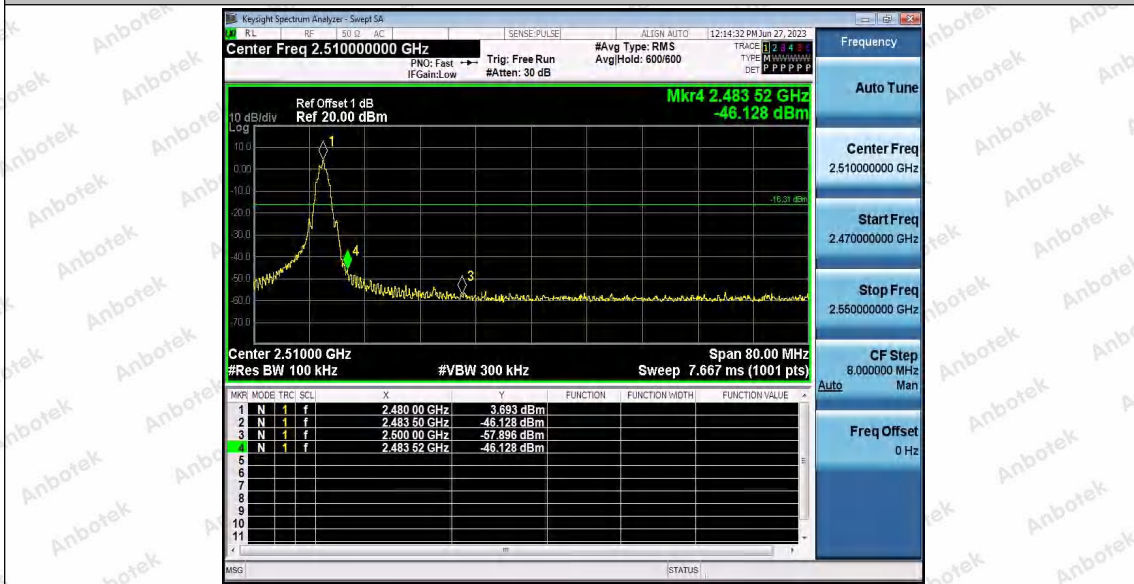
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BLE_2M_Ant1_High_2480



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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	1.81	1.81	---	PASS
			30~1000	1.81	-66.48	≤-18.19	PASS
			1000~26500	1.81	-23.83	≤-18.19	PASS
		2440	Reference	2.71	2.71	---	PASS
			30~1000	2.71	-66.27	≤-17.29	PASS
			1000~26500	2.71	-21.32	≤-17.29	PASS
		2480	Reference	3.88	3.88	---	PASS
			30~1000	3.88	-67.21	≤-16.12	PASS
			1000~26500	3.88	-21.83	≤-16.12	PASS
BLE_2M	Ant1	2402	Reference	1.76	1.76	---	PASS
			30~1000	1.76	-67.59	≤-18.24	PASS
			1000~26500	1.76	-25.87	≤-18.24	PASS
		2440	Reference	2.63	2.63	---	PASS
			30~1000	2.63	-67.21	≤-17.37	PASS
			1000~26500	2.63	-21.13	≤-17.37	PASS
		2480	Reference	3.90	3.90	---	PASS
			30~1000	3.90	-66.99	≤-16.1	PASS
			1000~26500	3.90	-22.08	≤-16.1	PASS



Test Graphs

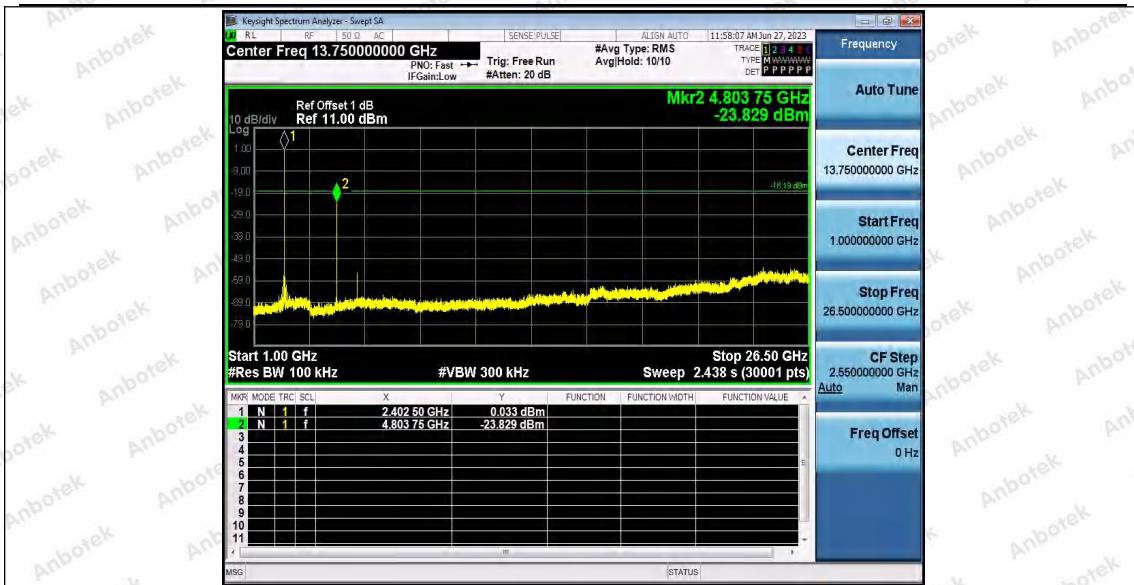


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BLE_1M_Ant1_2440_0~Reference



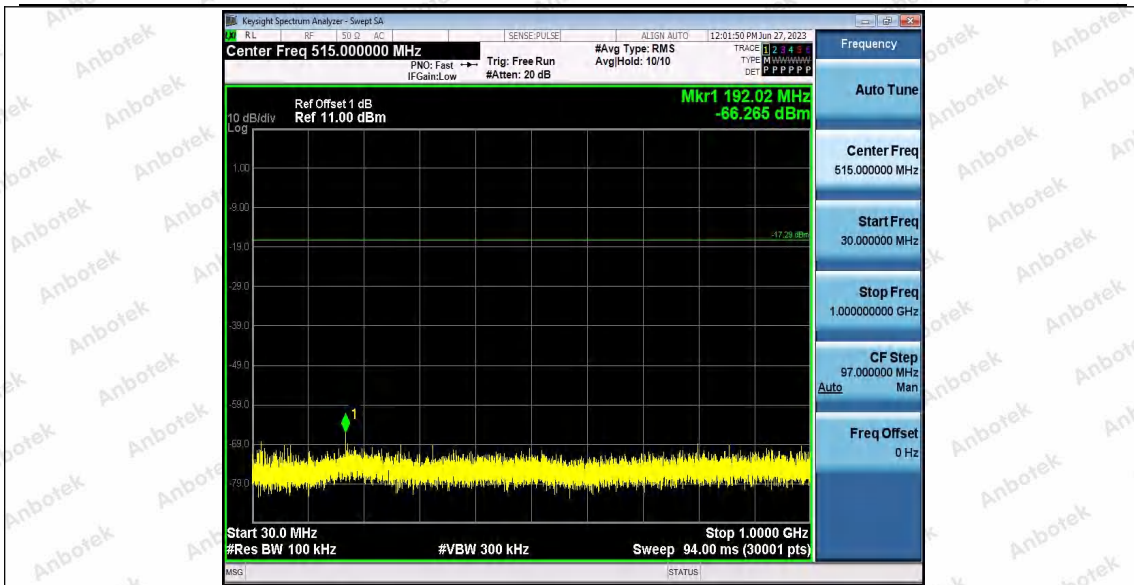
BLE_1M_Ant1_2440_30~1000

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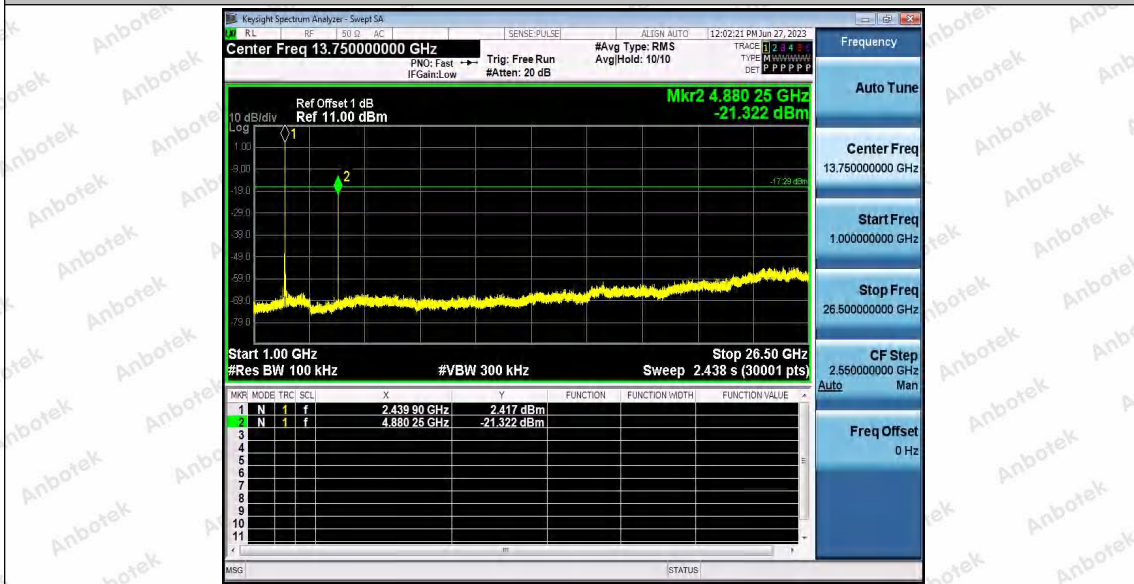
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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BLE_1M_Ant1_2480_30~1000



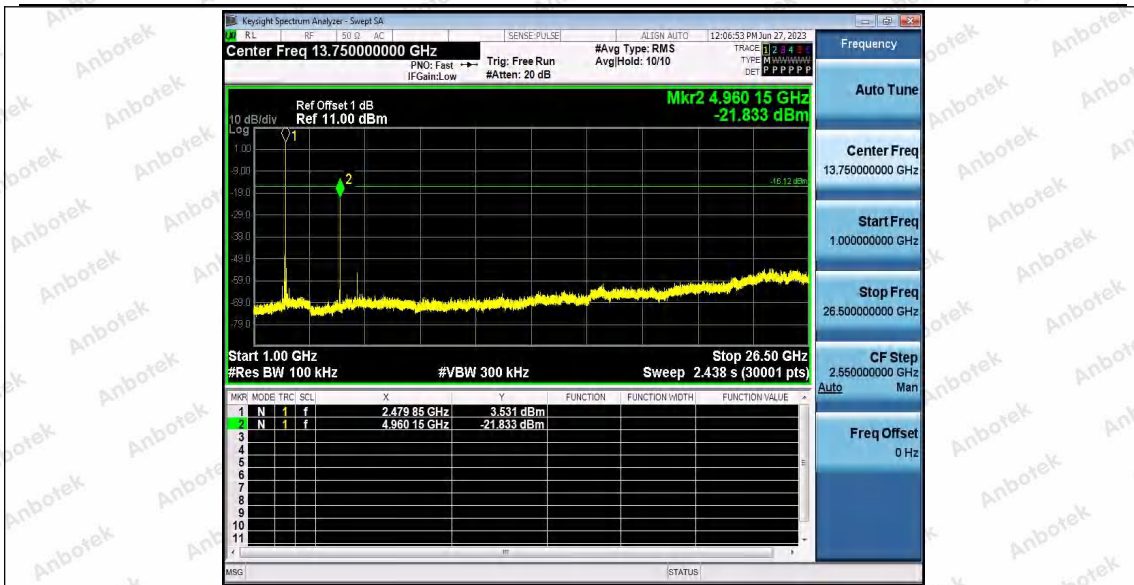
BLE_1M_Ant1_2480_1000~26500

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BLE_2M_Ant1_2402_0~Reference



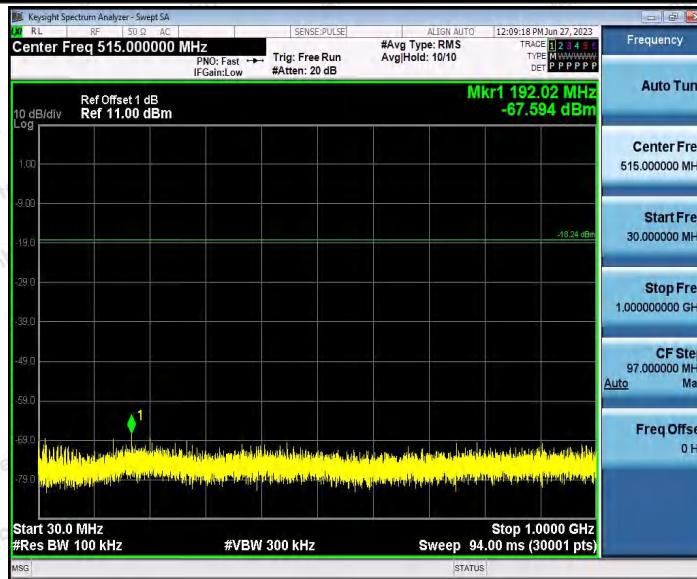
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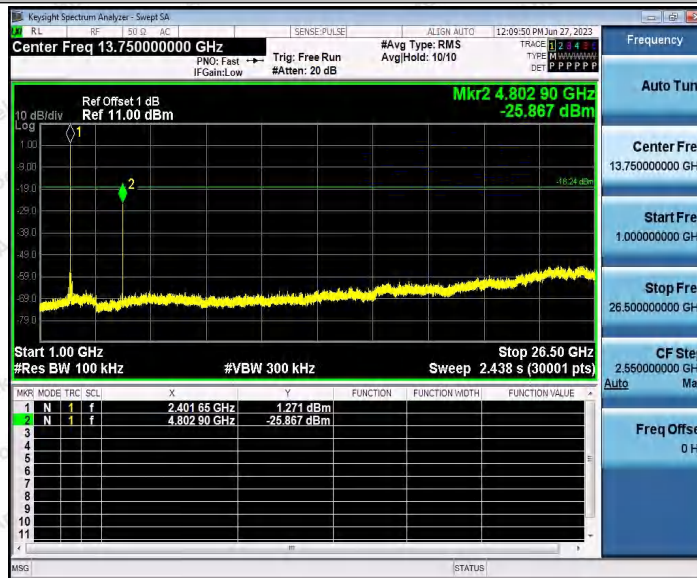
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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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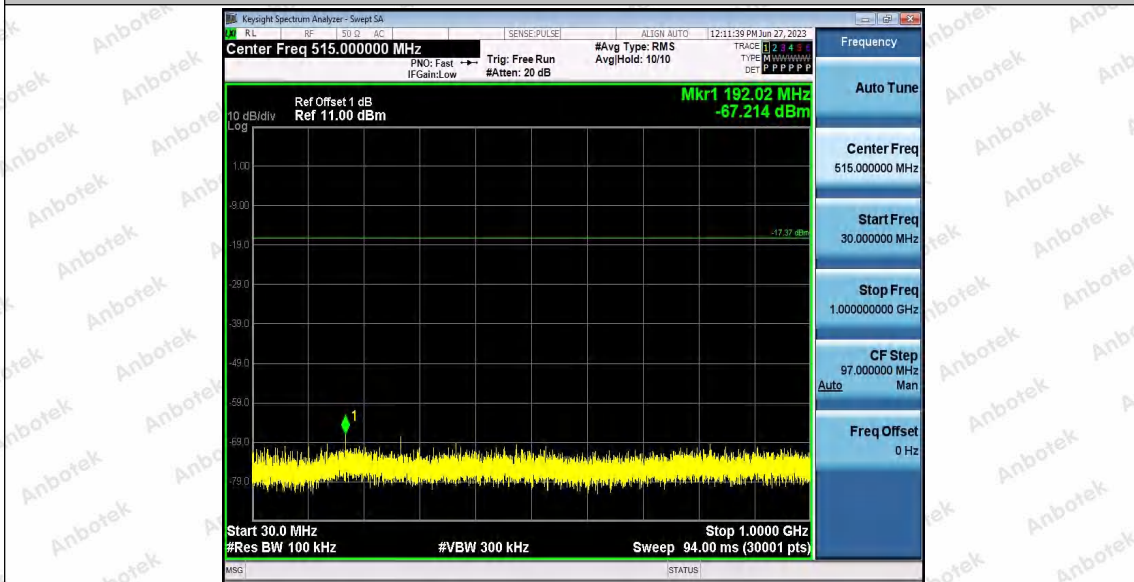
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BLE_2M_Ant1_2440_30~1000



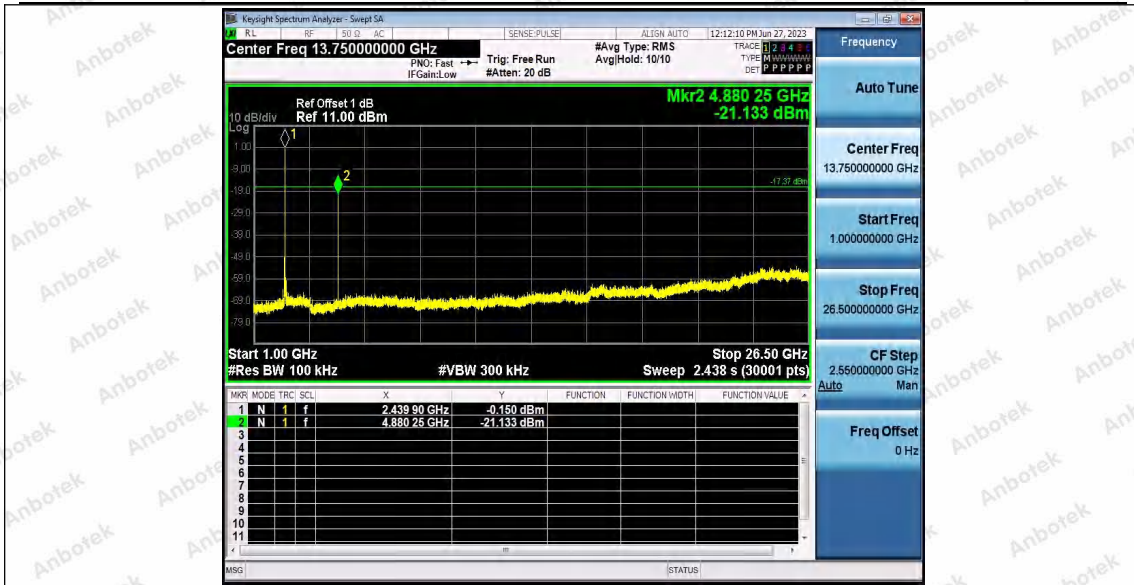
BLE_2M_Ant1_2440_1000~26500

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BLE_2M_Ant1_2480_0~Reference



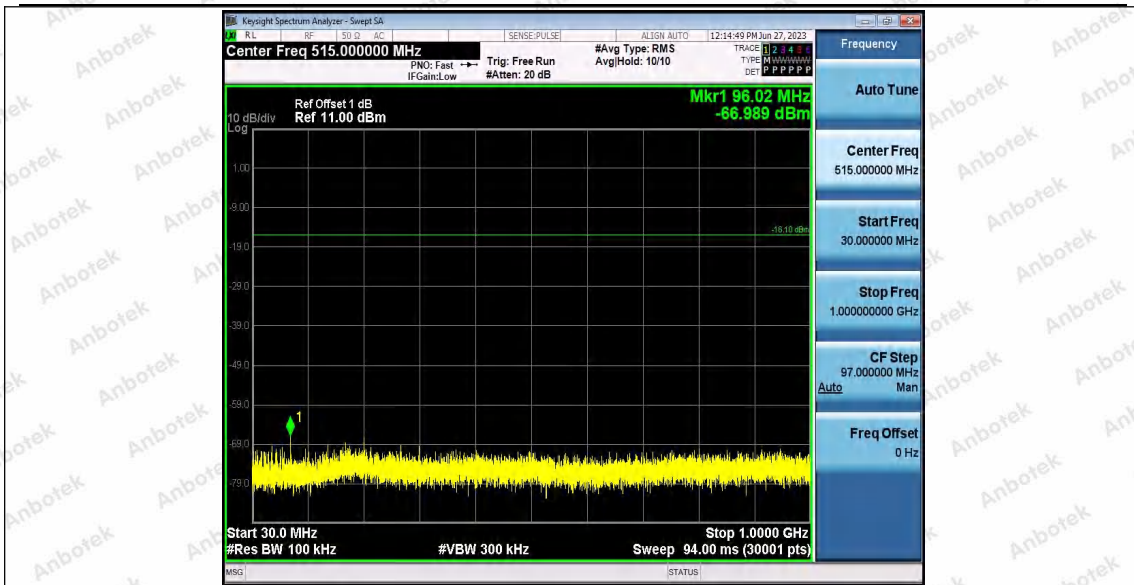
BLE_2M_Ant1_2480_30~1000

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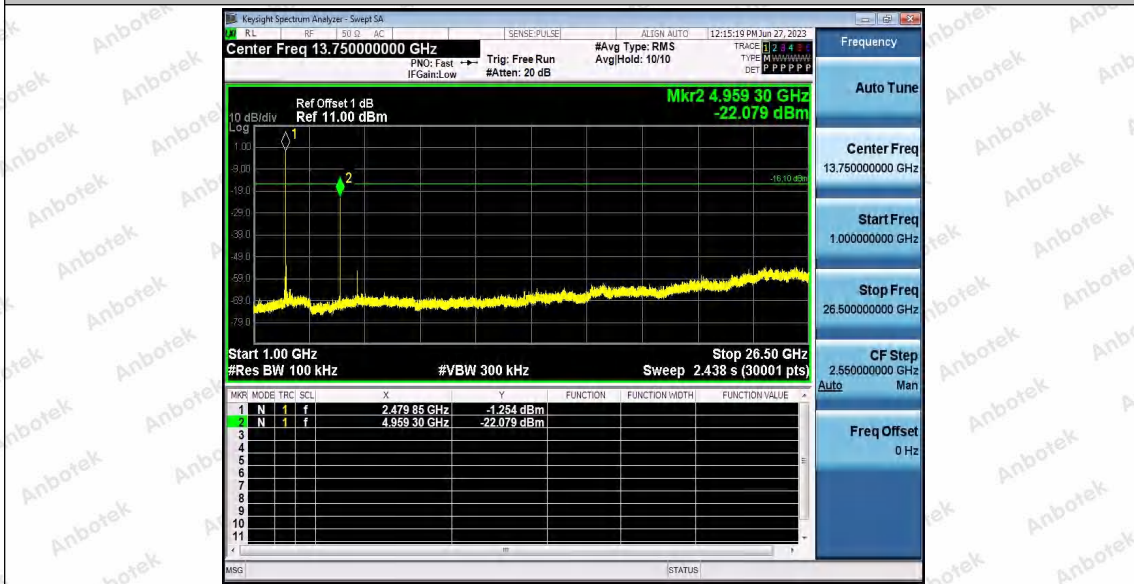
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BLE_2M_Ant1_2480_1000~26500



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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	0.41	0.62	66.13	1.80
		2440	0.41	0.62	66.13	1.80
		2480	0.41	0.62	66.13	1.80
BLE_2M	Ant1	2402	0.23	0.62	37.10	4.31
		2440	0.23	0.62	37.10	4.31
		2480	0.23	0.62	37.10	4.31

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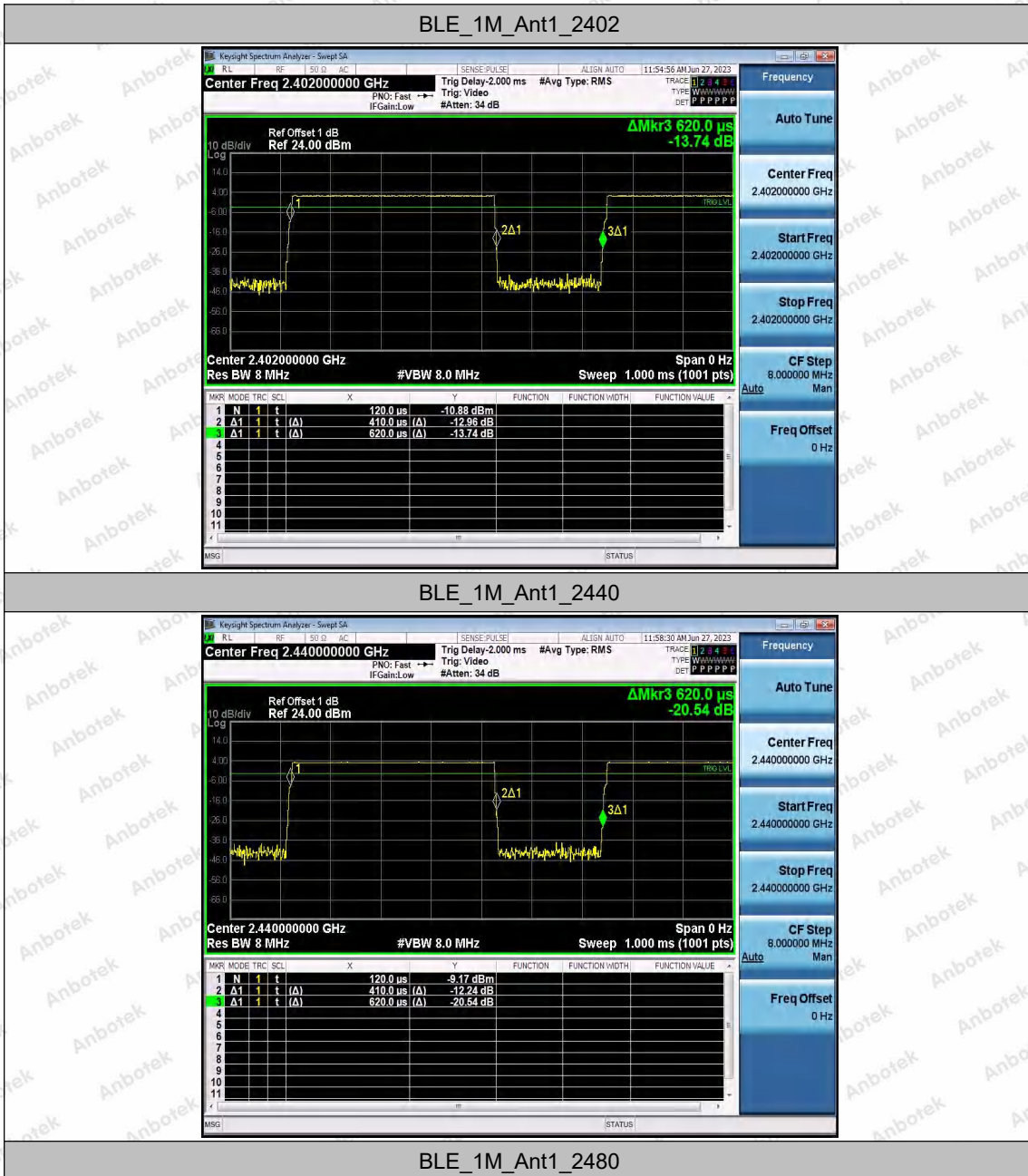
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

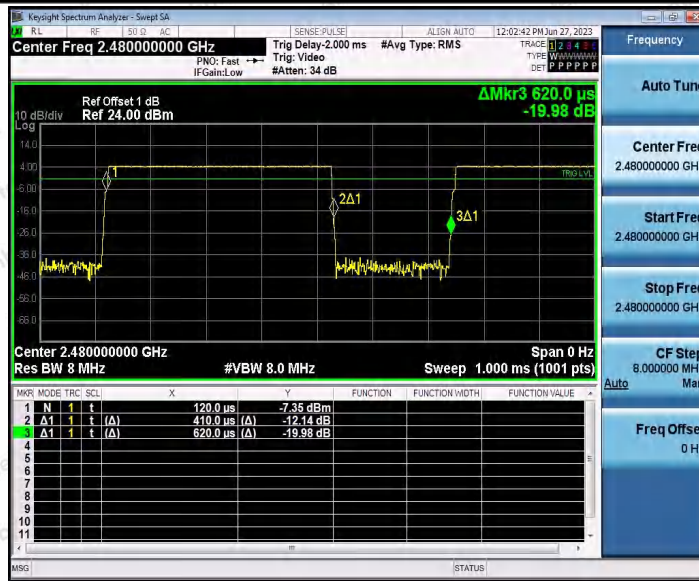


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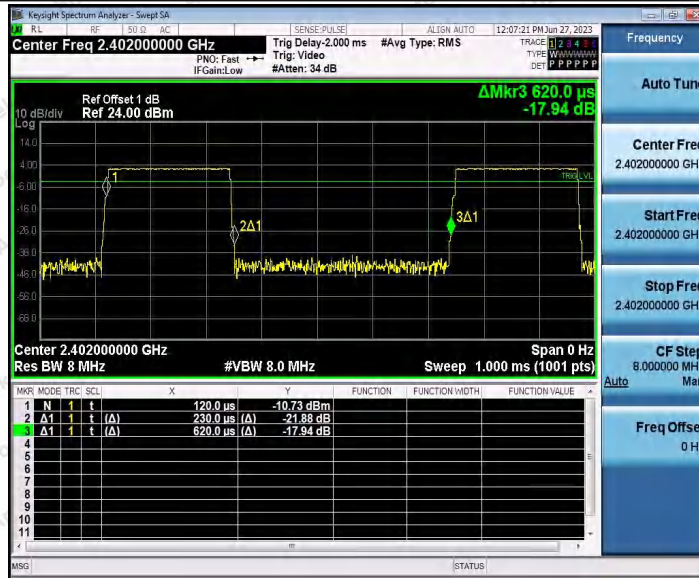


Test Graphs





BLE_2M_Ant1_2402



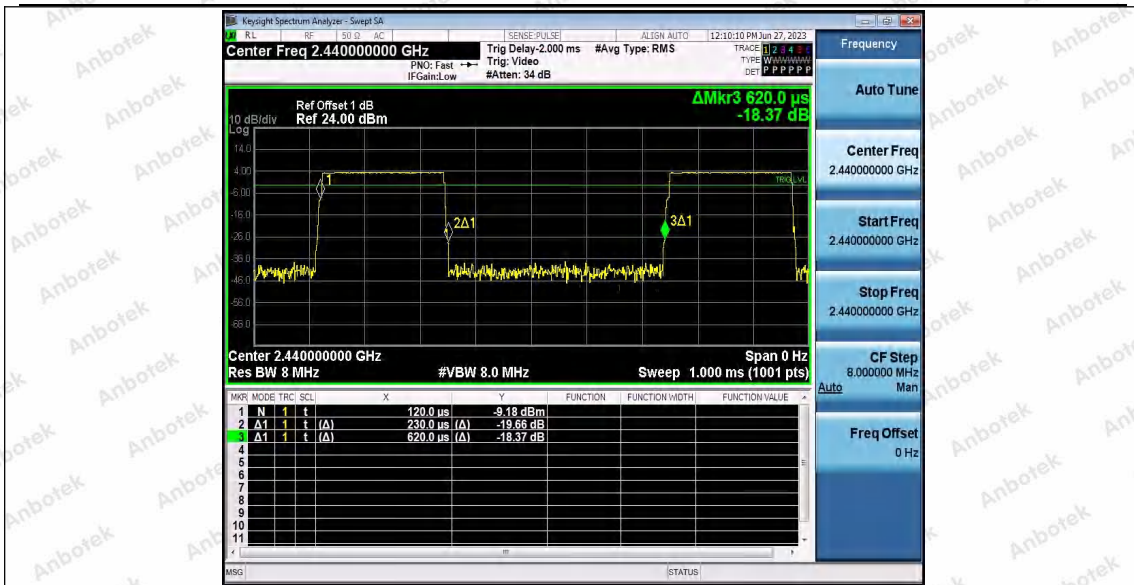
BLE_2M_Ant1_2440

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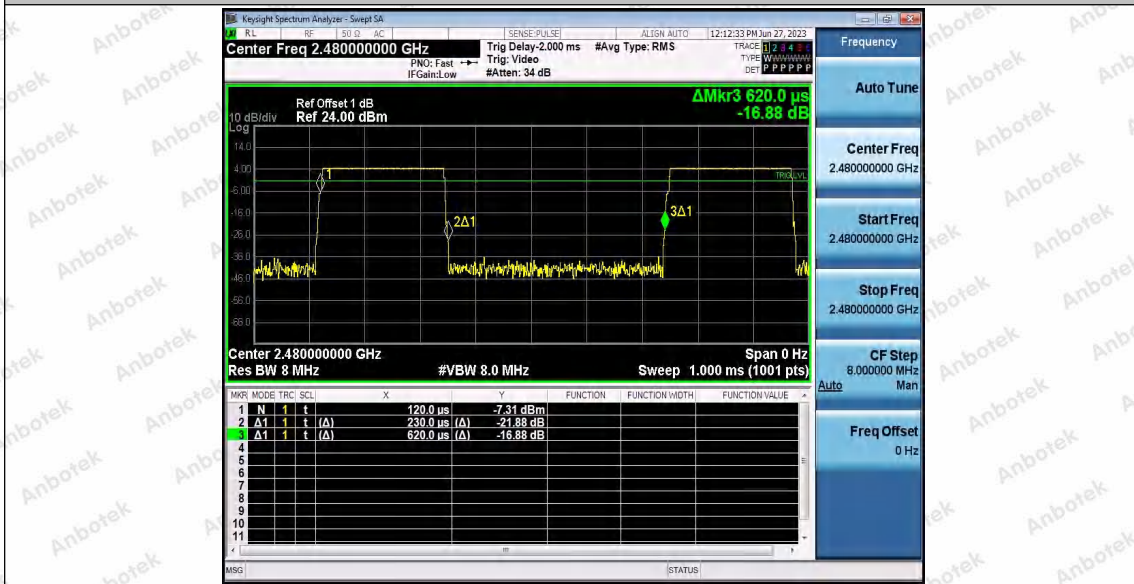
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BLE_2M_Ant1_2480



---End---

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