

Appendix Test Data

Report No.:	18220WC20095801	Test Sample No.:	1-2-2
Start Test Date:	2022.5.5	Finish Test Date:	2022.5.10
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3C°	Relative Humidity:	57.2 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.724	2401.640	2402.364	≥0.5	PASS
		2440	0.732	2439.628	2440.360	≥0.5	PASS
		2480	0.768	2479.616	2480.384	≥0.5	PASS
BLE_2M	Ant1	2402	1.232	2401.368	2402.600	≥0.5	PASS
		2440	1.196	2439.364	2440.560	≥0.5	PASS
		2480	1.156	2479.420	2480.576	≥0.5	PASS

Test Graphs





BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0485	2401.474	2402.522	---	PASS
		2440	1.0720	2439.458	2440.530	---	PASS
		2480	1.0624	2479.463	2480.525	---	PASS
BLE_2M	Ant1	2402	2.0728	2400.955	2403.028	---	PASS
		2440	2.0829	2438.940	2441.023	---	PASS
		2480	2.0832	2478.945	2481.028	---	PASS

Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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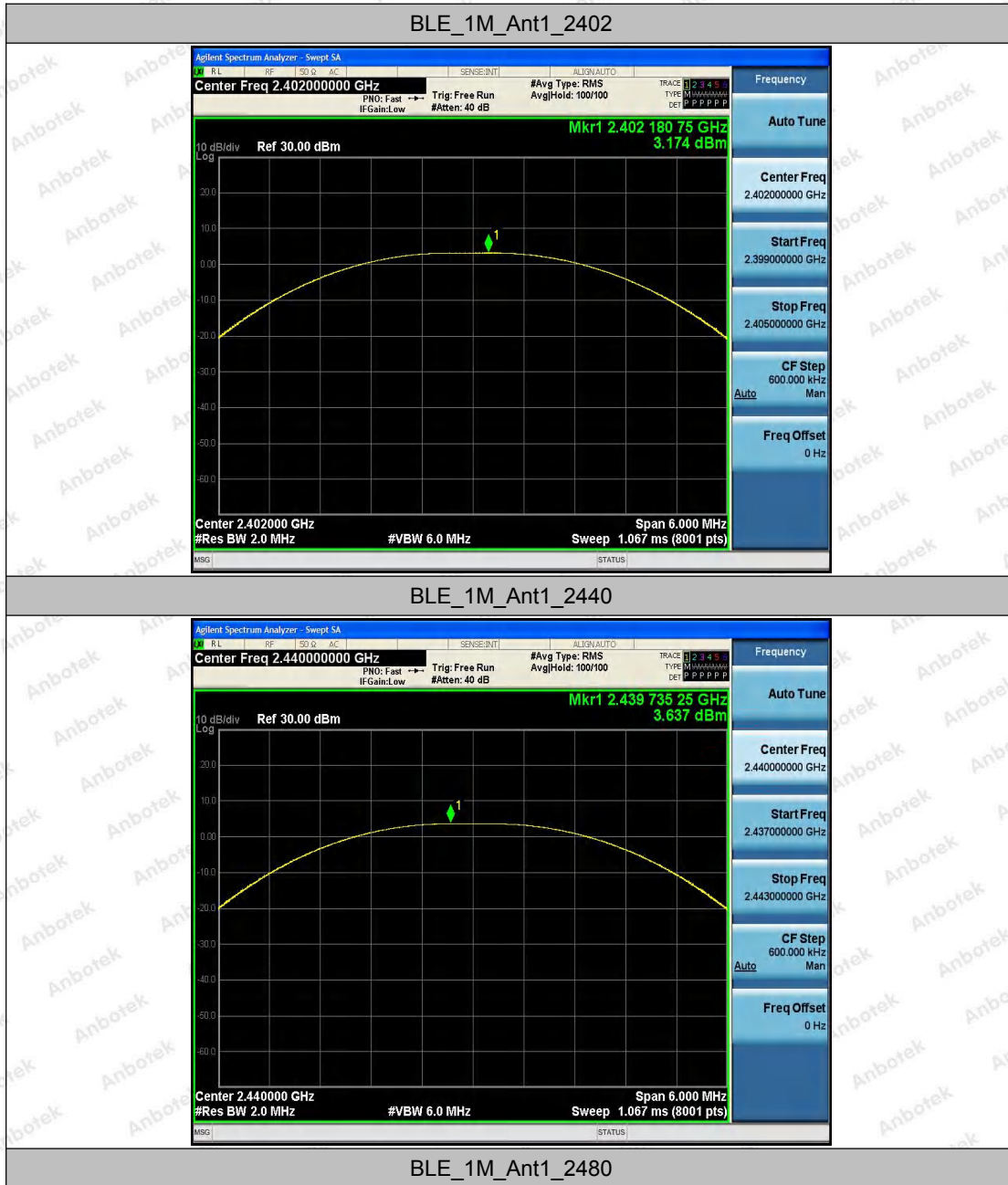
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.17	≤30	PASS
		2440	3.64	≤30	PASS
		2480	3.65	≤30	PASS
BLE_2M	Ant1	2402	3.2	≤30	PASS
		2440	3.62	≤30	PASS
		2480	3.66	≤30	PASS

Test Graphs



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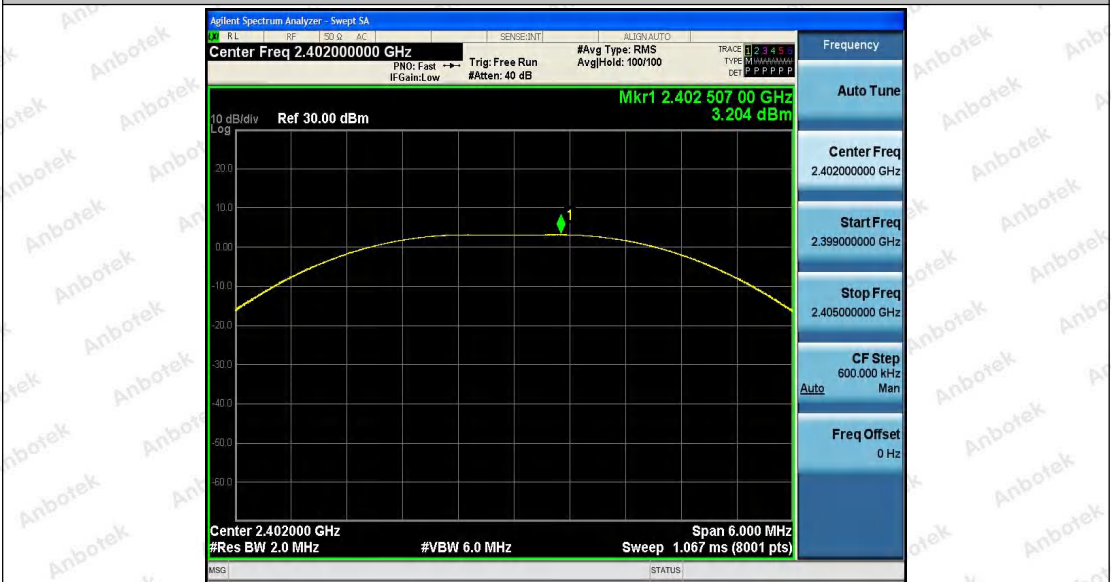
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

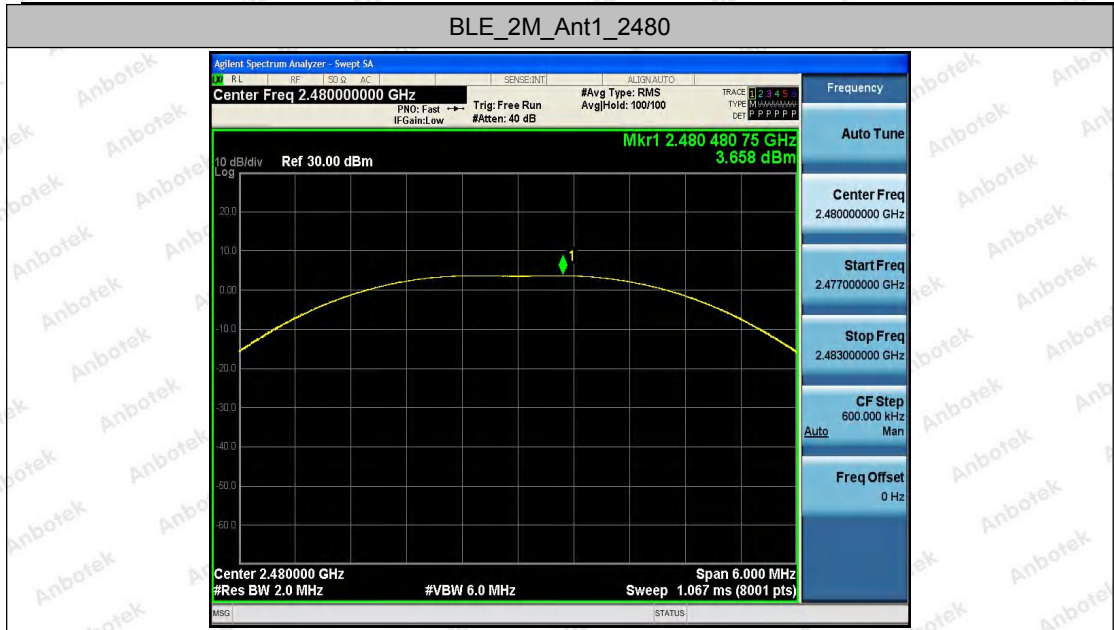


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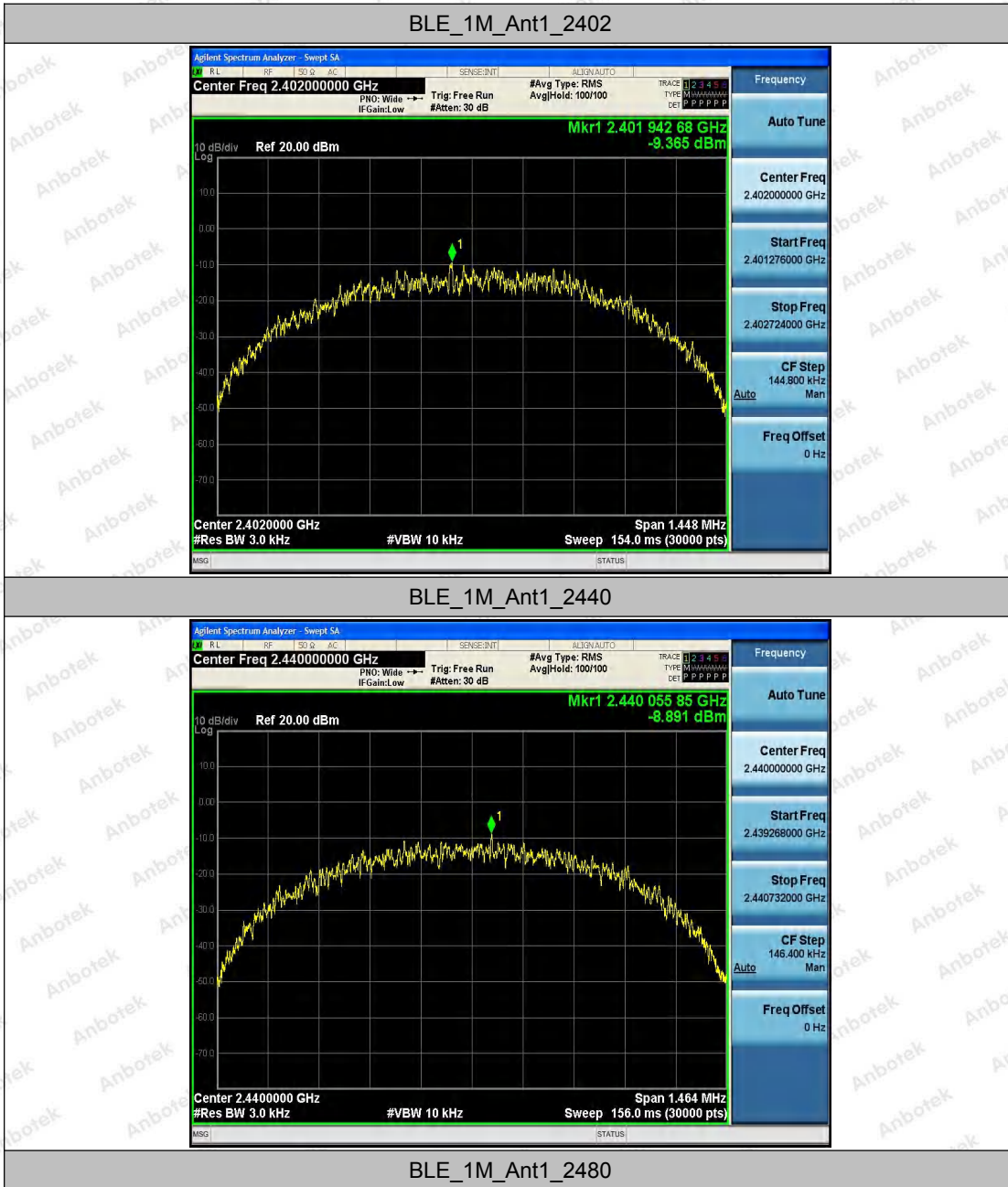
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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.37	≤8	PASS
		2440	-8.89	≤8	PASS
		2480	-9.31	≤8	PASS
BLE_2M	Ant1	2402	-13.21	≤8	PASS
		2440	-12.26	≤8	PASS
		2480	-11.47	≤8	PASS

Test Graphs

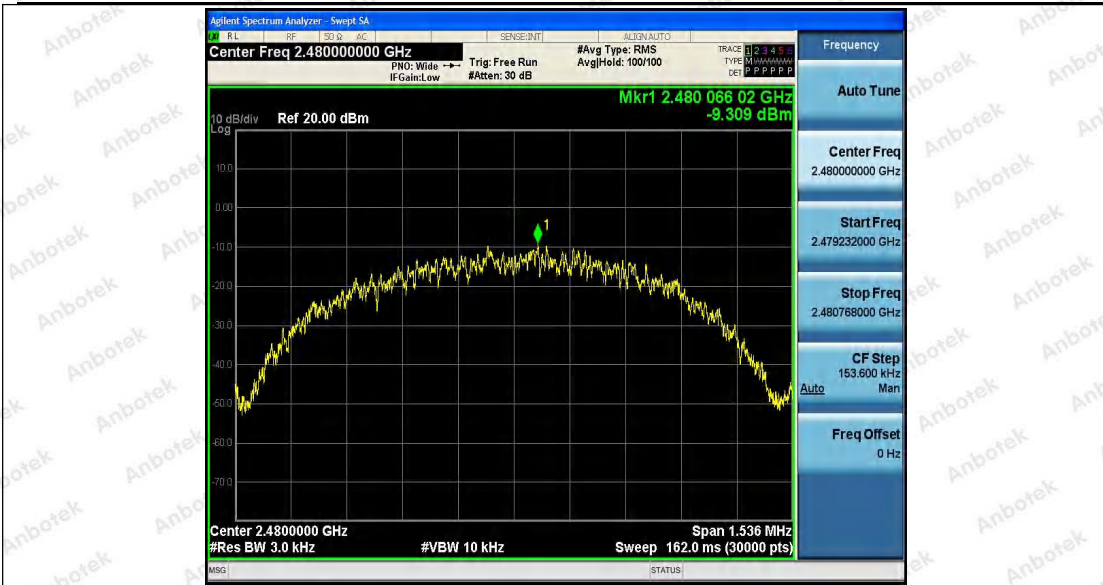


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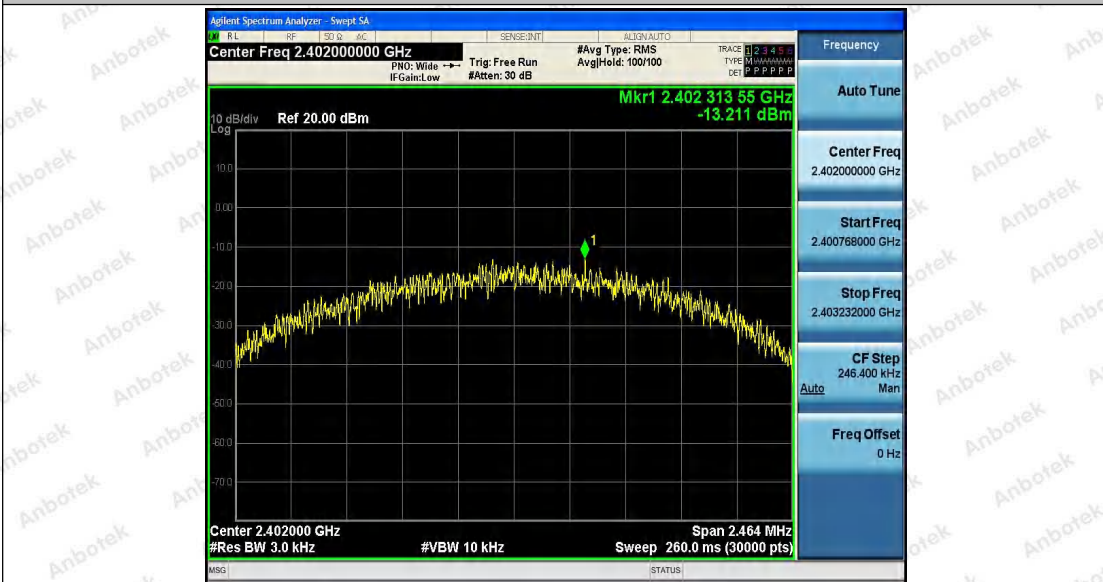
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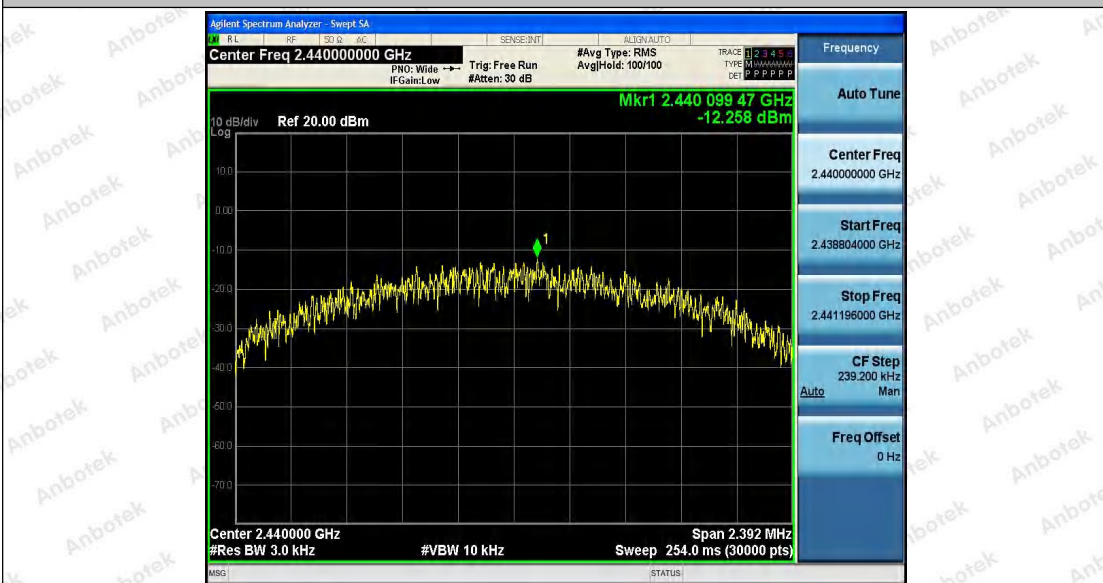
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

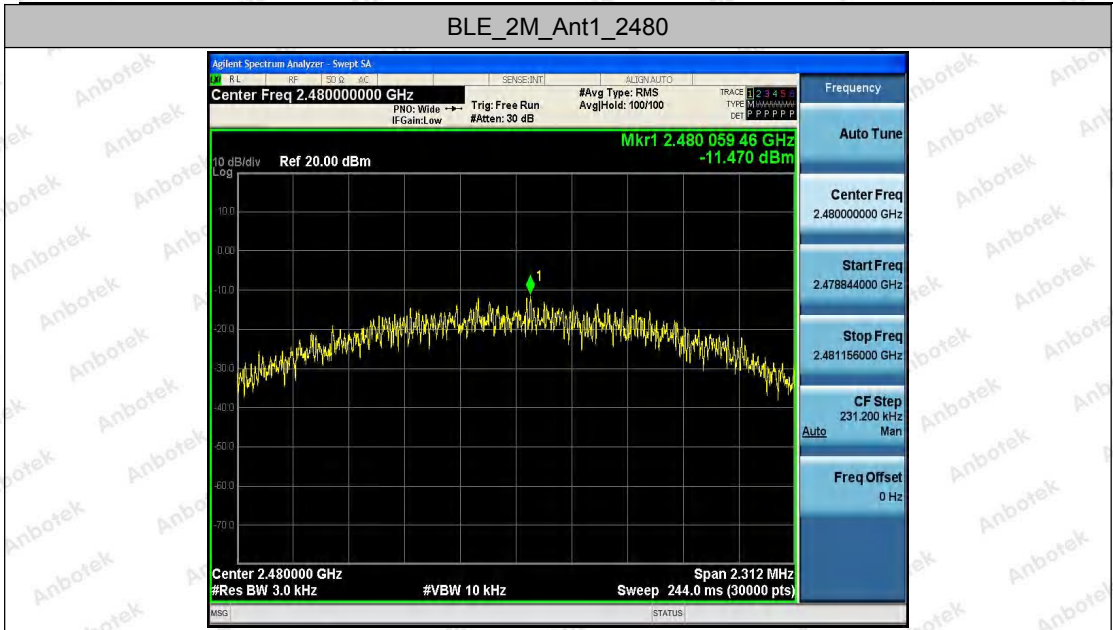


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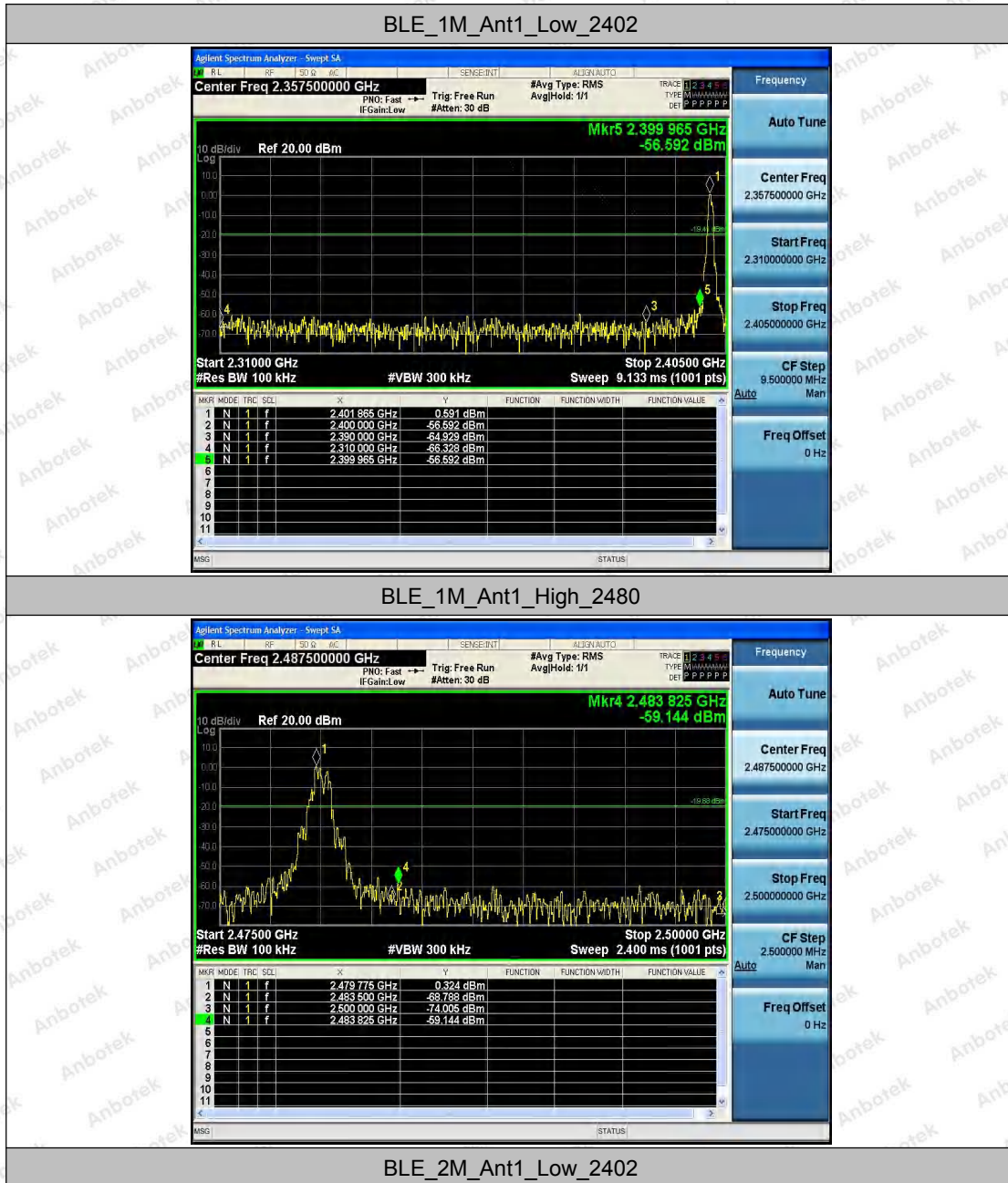
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.59	-56.59	≤-19.41	PASS
		High	2480	0.32	-59.14	≤-19.68	PASS
BLE_2M	Ant1	Low	2402	-2.12	-37.87	≤-22.12	PASS
		High	2480	-1.70	-54.46	≤-21.7	PASS

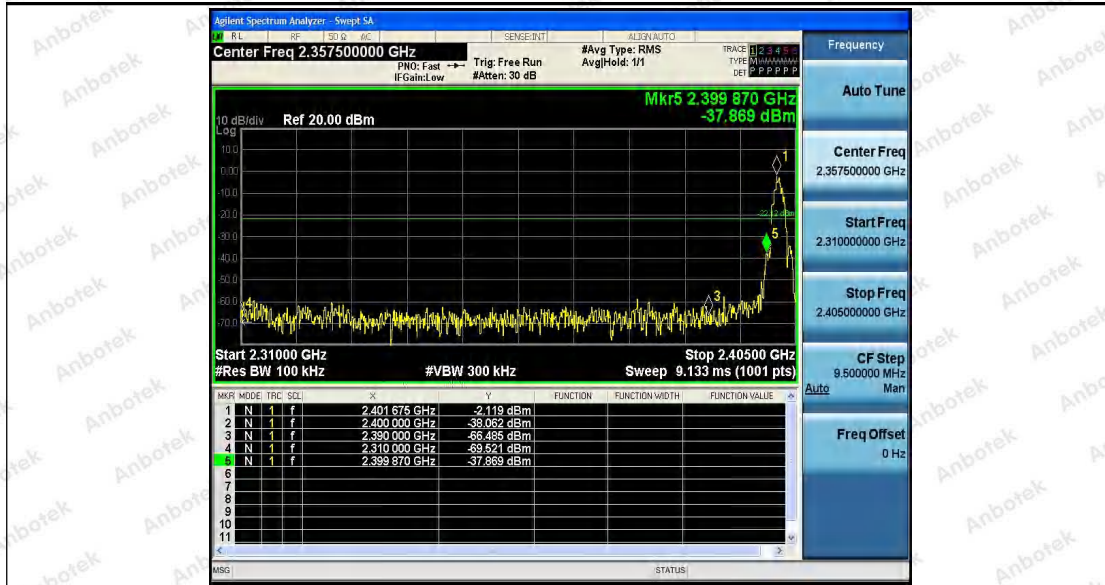
Test Graphs



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BLE_2M_Ant1_High_2480



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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.86	2.86	---	PASS
			30~1000	2.86	-70.66	≤-17.14	PASS
			1000~26500	2.86	-46.91	≤-17.14	PASS
		2440	Reference	2.76	2.76	---	PASS
			30~1000	2.76	-70.09	≤-17.25	PASS
			1000~26500	2.76	-48.27	≤-17.25	PASS
		2480	Reference	2.75	2.75	---	PASS
			30~1000	2.75	-69.73	≤-17.25	PASS
			1000~26500	2.75	-51.26	≤-17.25	PASS
BLE_2M	Ant1	2402	Reference	1.15	1.15	---	PASS
			30~1000	1.15	-70.28	≤-18.85	PASS
			1000~26500	1.15	-46.07	≤-18.85	PASS
		2440	Reference	2.08	2.08	---	PASS
			30~1000	2.08	-70.4	≤-17.92	PASS
			1000~26500	2.08	-49.29	≤-17.92	PASS
		2480	Reference	2.22	2.22	---	PASS
			30~1000	2.22	-70.61	≤-17.78	PASS
			1000~26500	2.22	-53.32	≤-17.78	PASS

Test Graphs



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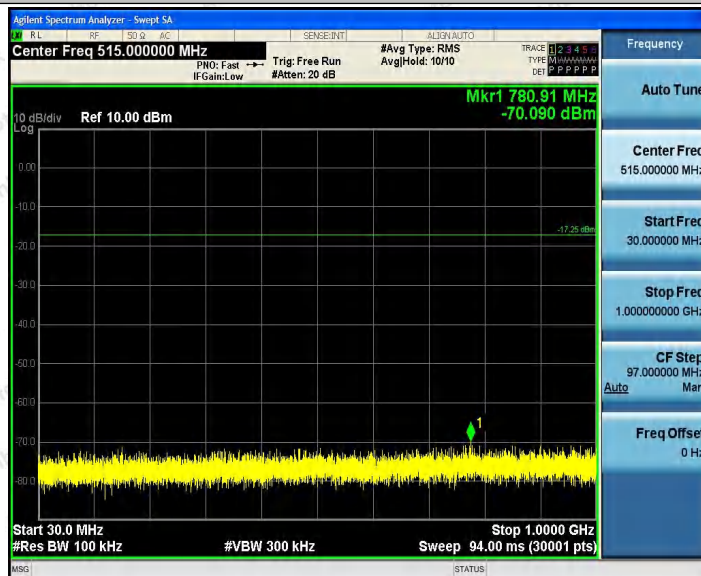
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

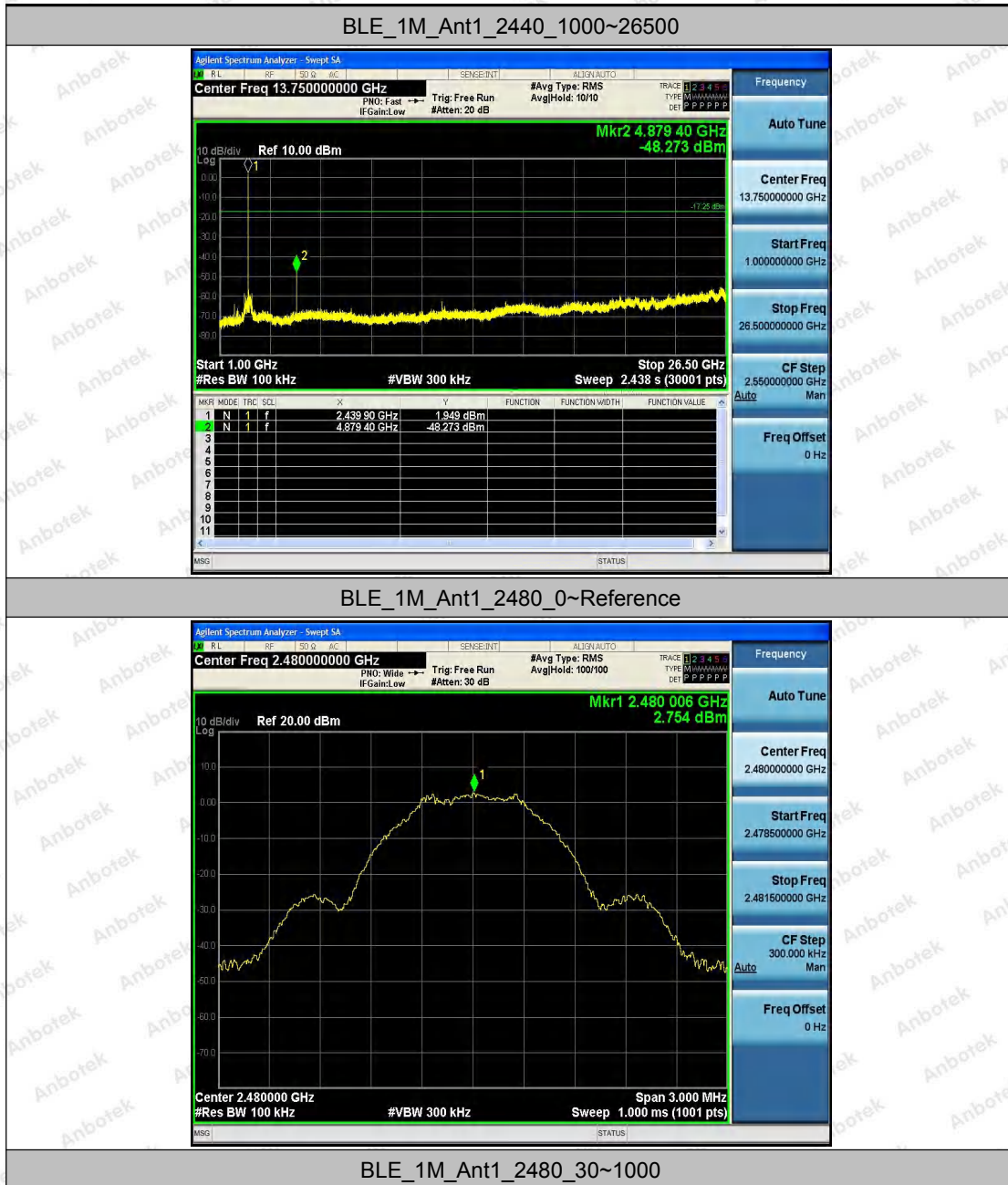


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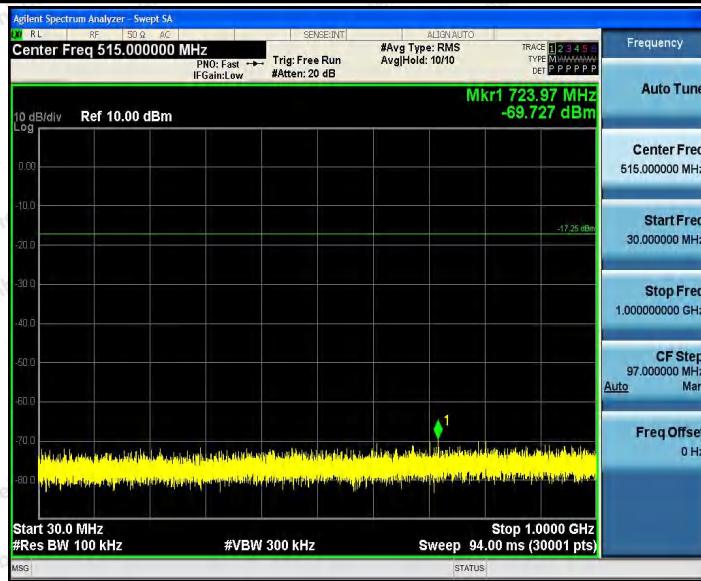


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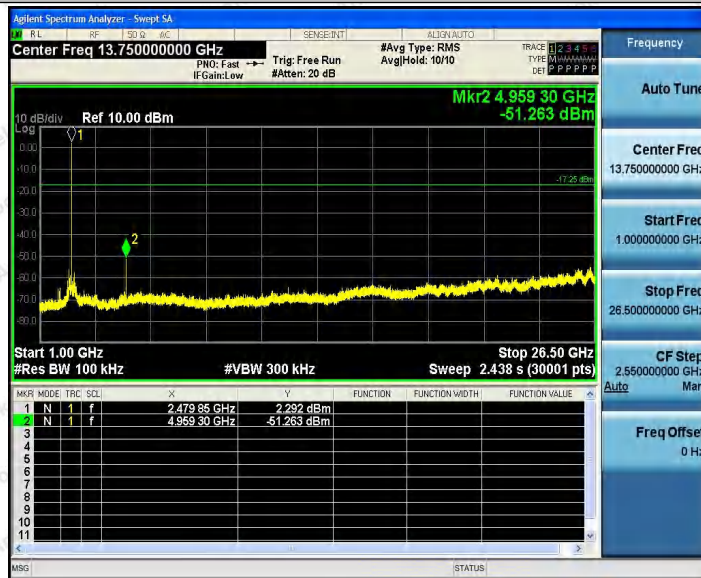
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BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference

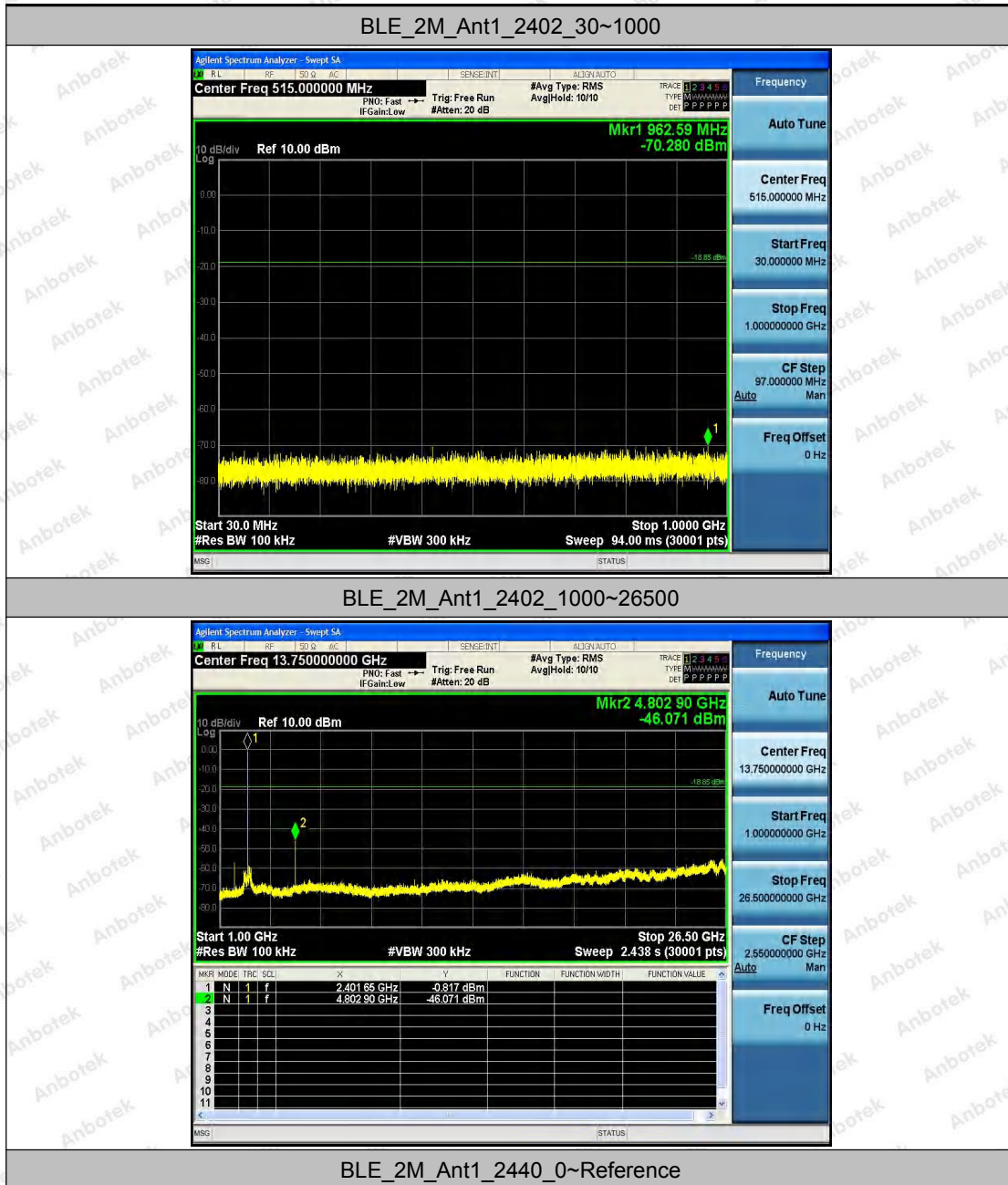


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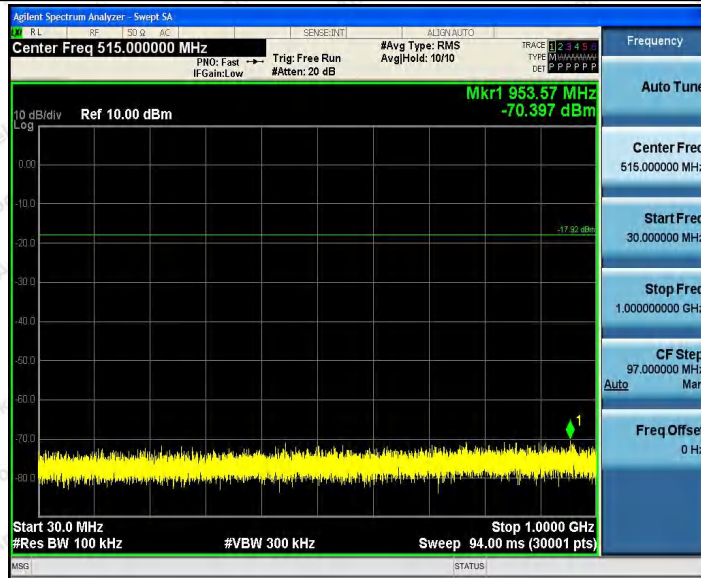
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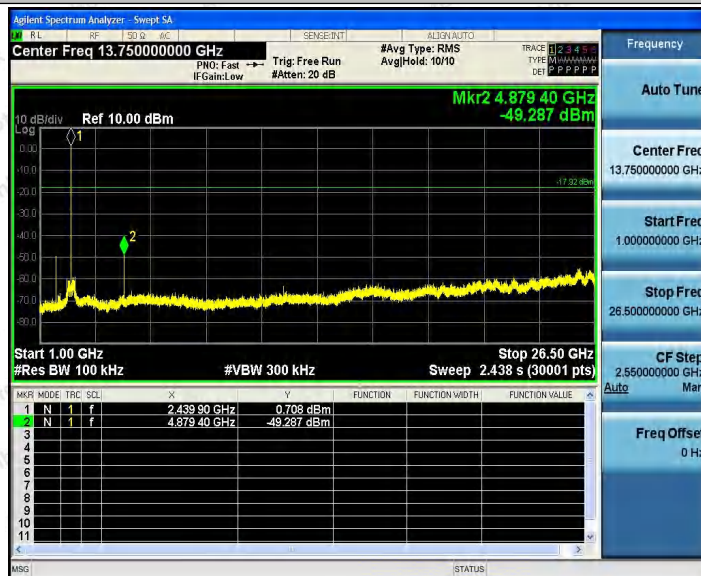
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BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

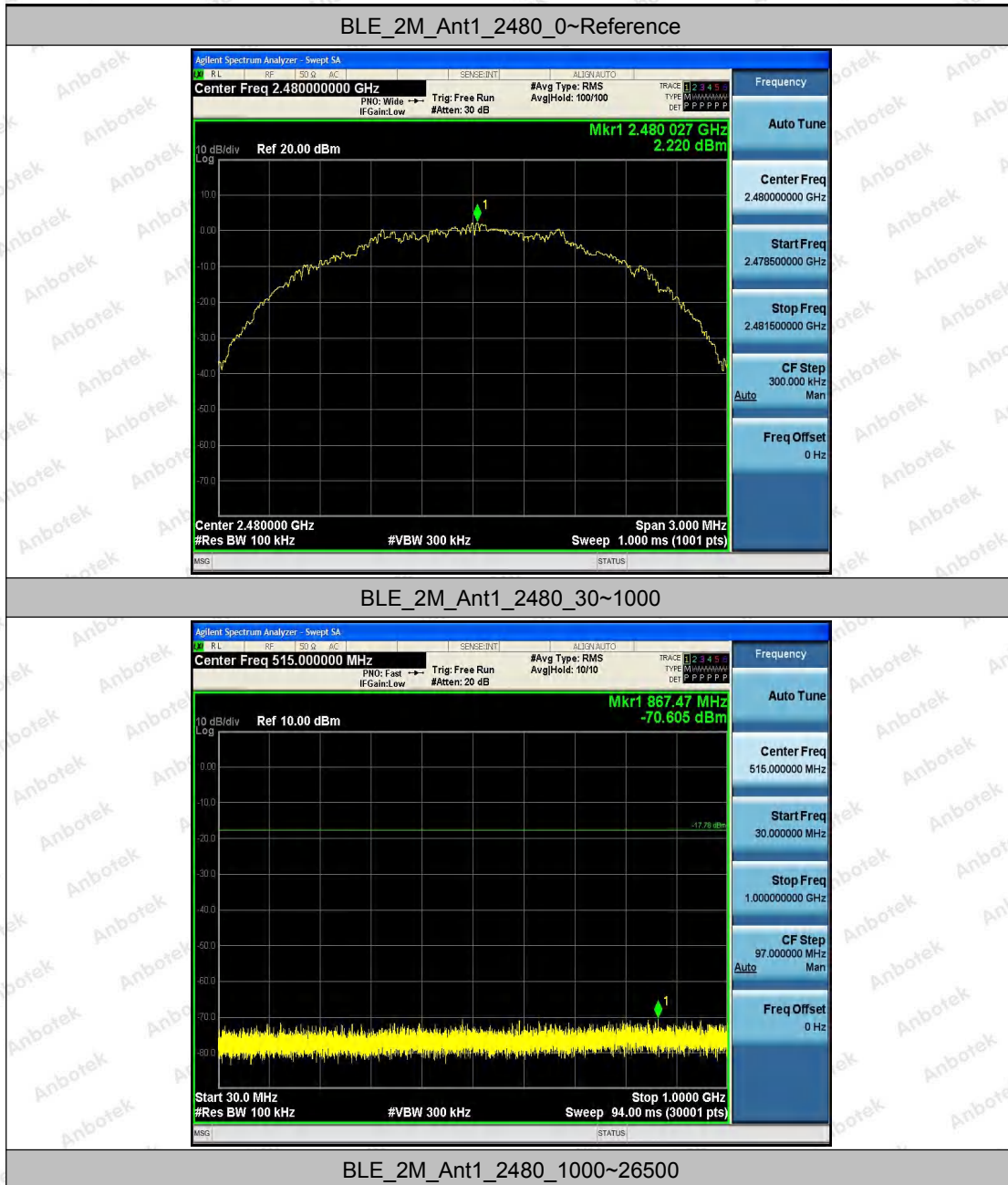


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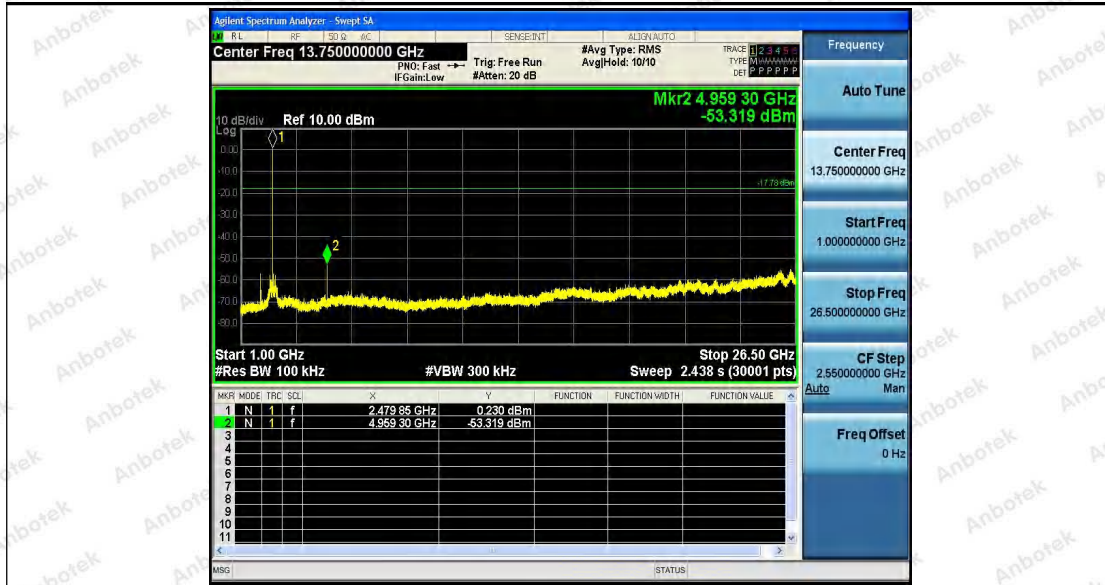


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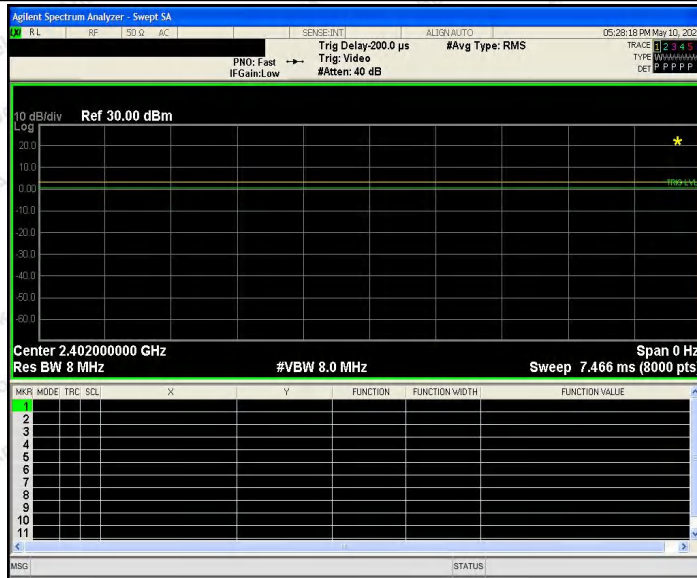
Appendix G: Duty Cycle

Test Result

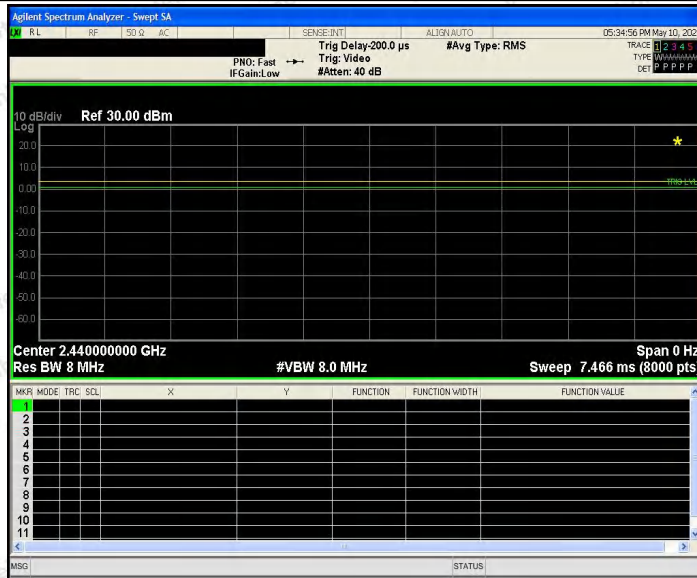
Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
BLE_1M	Ant1	2402	7.466	7.466	1	100%	0	---	PASS
		2440	7.466	7.466	1	100%	0	---	PASS
		2480	7.466	7.466	1	100%	0	---	PASS
BLE_2M	Ant1	2402	7.466	7.466	1	100%	0	---	PASS
		2440	7.466	7.466	1	100%	0	---	PASS
		2480	7.466	7.466	1	100%	0	---	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

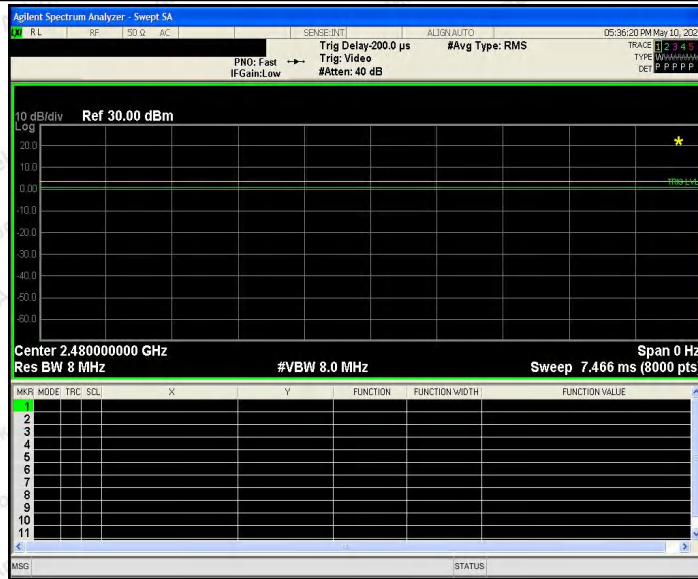


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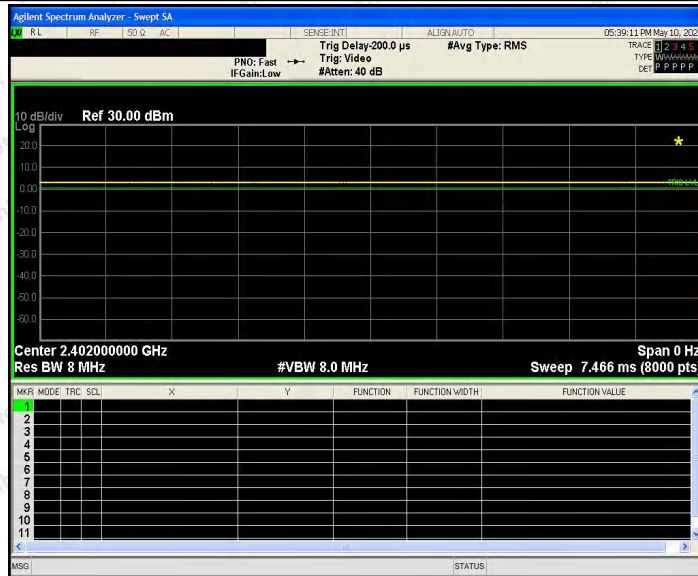
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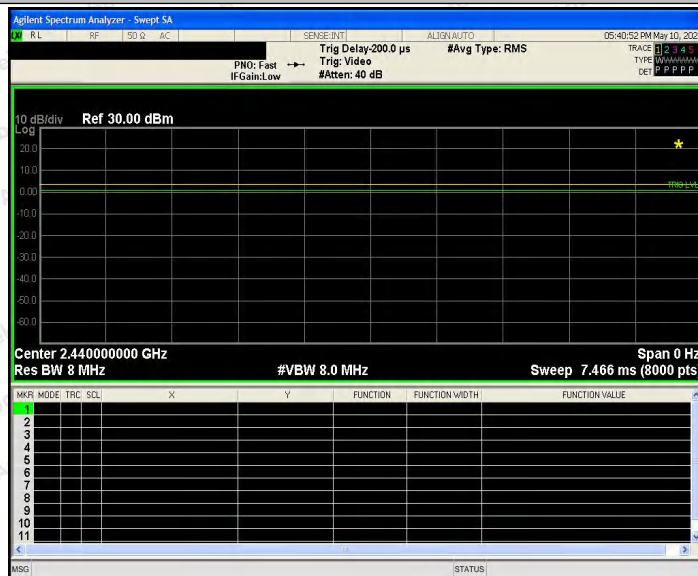
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BLE_2M_Ant1_2402



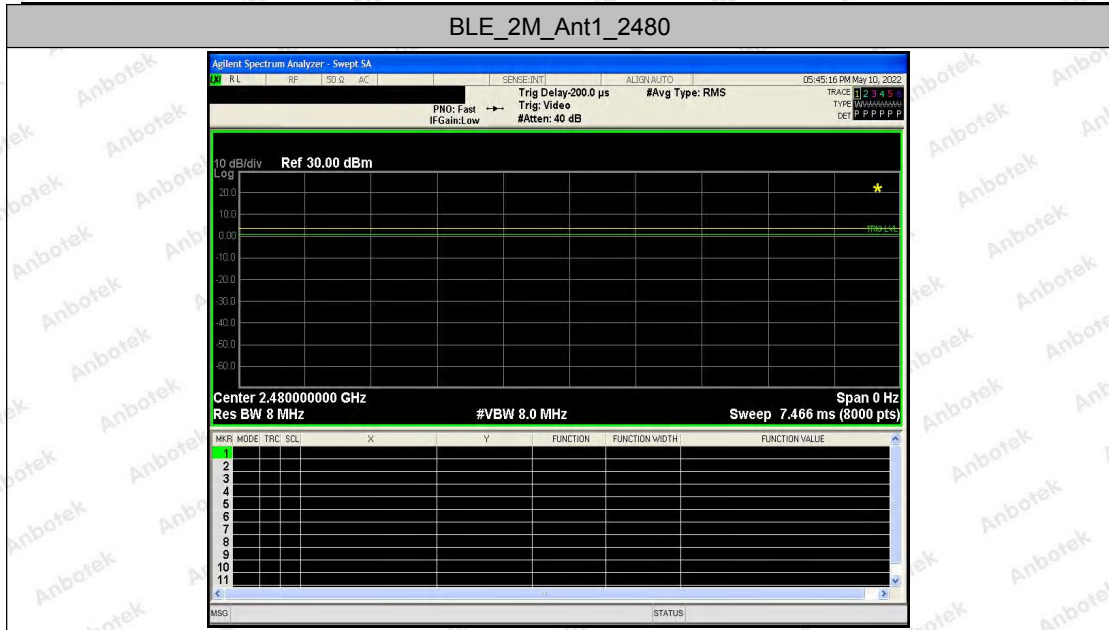
BLE_2M_Ant1_2440



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