

Appendix Test Data

Report No.:	18220WC20106201	Test Sample No.:	1-2-2
Start Test Date:	2022.5.16	Finish Test Date:	2022.5.25
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	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	0.756	2401.616	2402.372	≥0.5	PASS
		2440	0.744	2439.624	2440.368	≥0.5	PASS
		2480	0.756	2479.624	2480.380	≥0.5	PASS
BLE_2M	Ant1	2402	1.108	2401.472	2402.580	≥0.5	PASS
		2440	1.236	2439.356	2440.592	≥0.5	PASS
		2480	1.180	2479.384	2480.564	≥0.5	PASS

Test Graphs

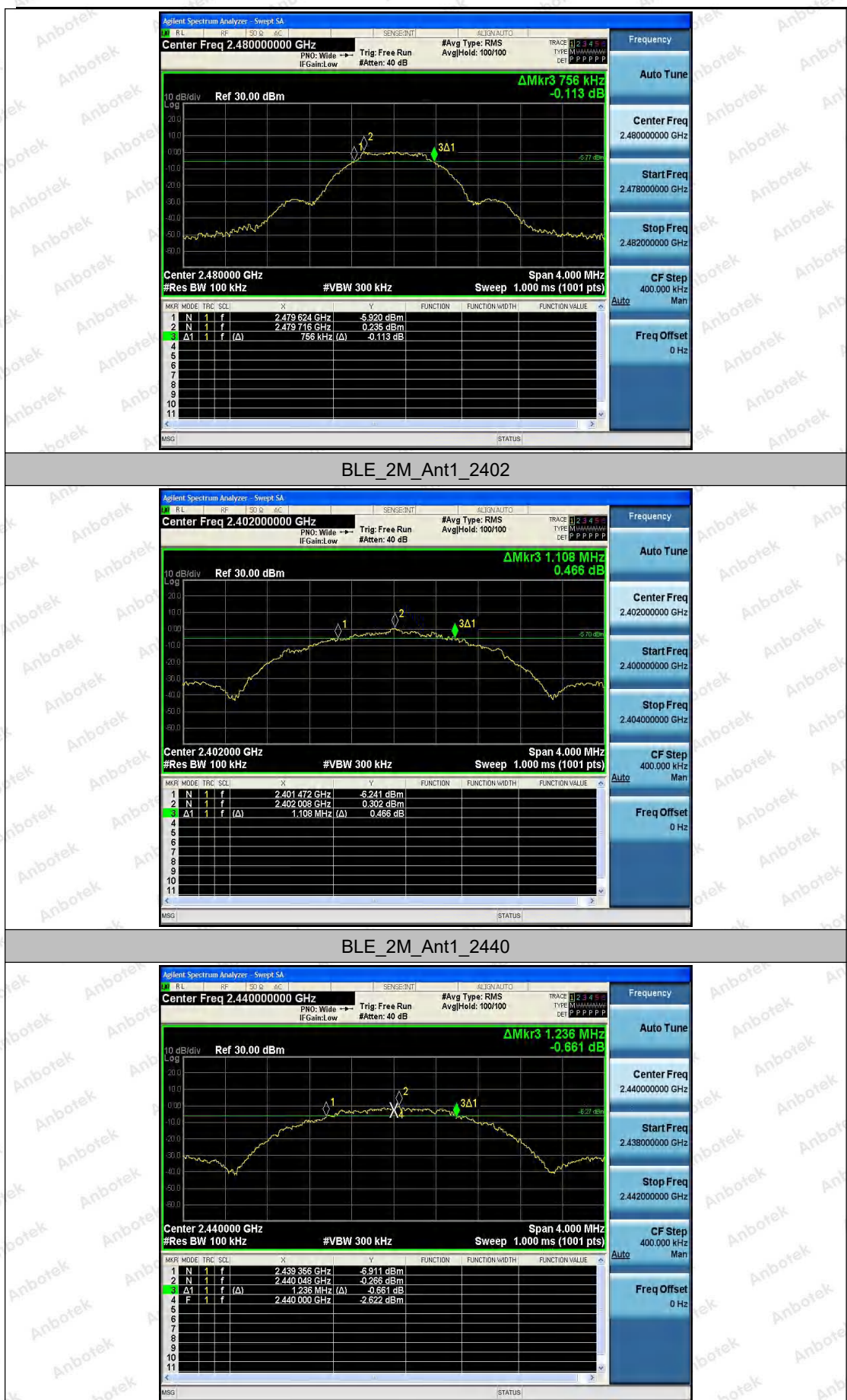
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



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Appendix B: Occupied Channel Bandwidth

Test Result

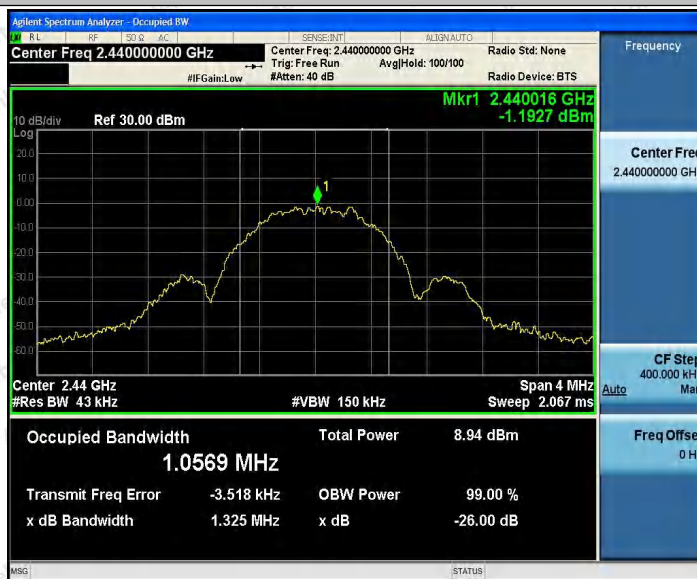
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0669	2401.462	2402.529	---	PASS
		2440	1.0569	2439.468	2440.525	---	PASS
		2480	1.0622	2479.457	2480.519	---	PASS
BLE_2M	Ant1	2402	2.0910	2400.941	2403.032	---	PASS
		2440	2.0678	2438.940	2441.008	---	PASS
		2480	2.0882	2478.928	2481.016	---	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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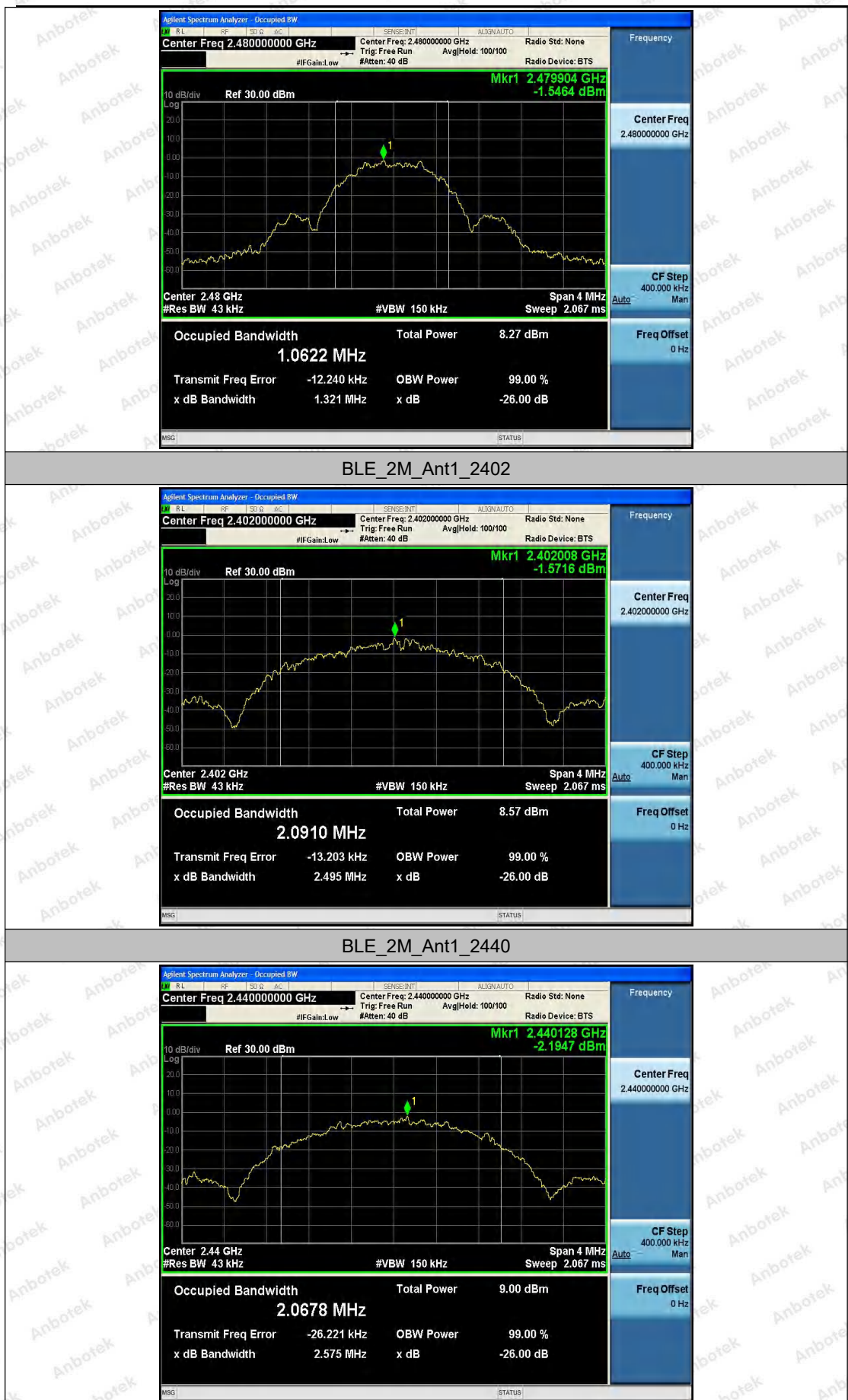
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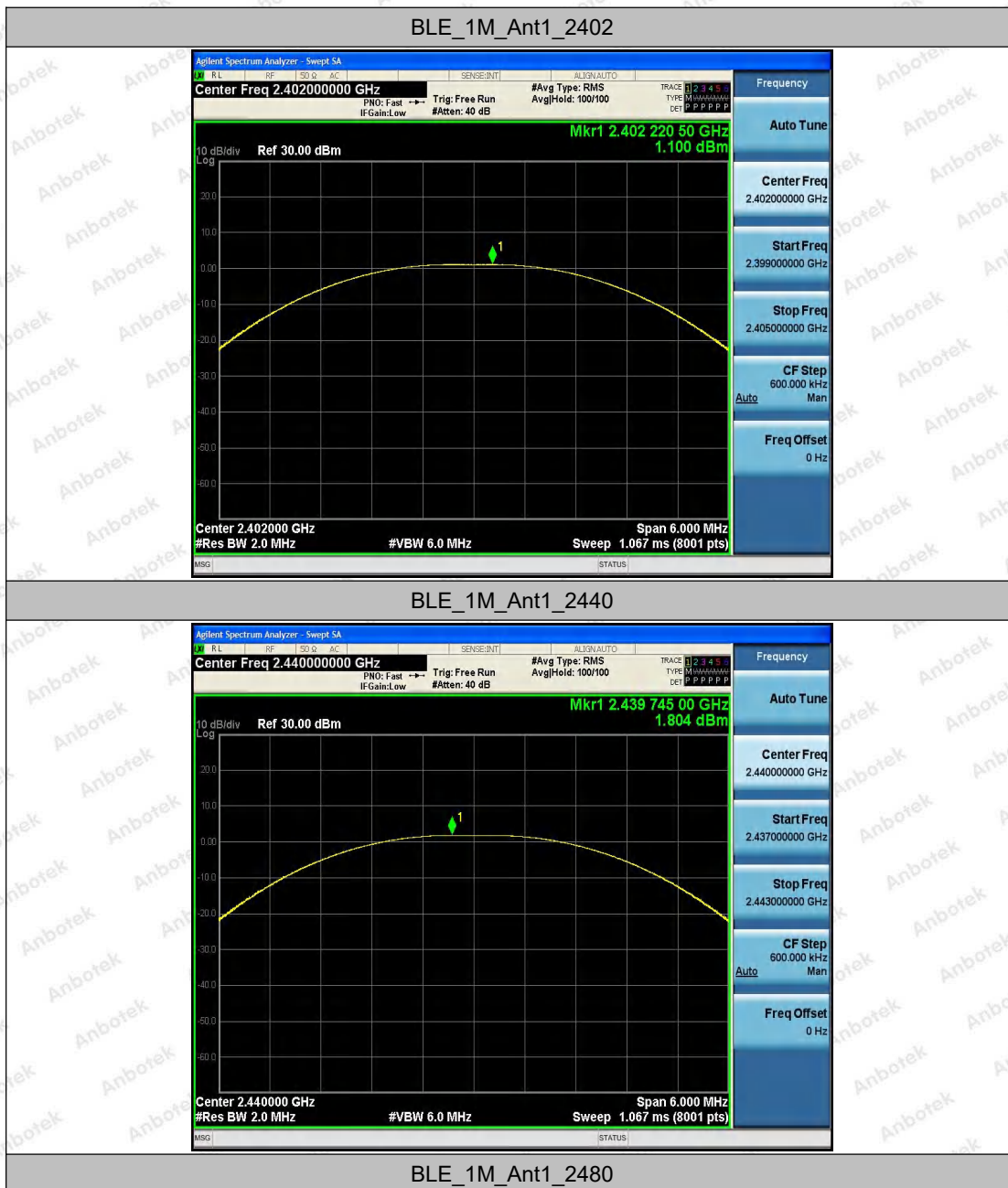
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.1	≤30	PASS
		2440	1.8	≤30	PASS
		2480	1.39	≤30	PASS
BLE_2M	Ant1	2402	1.04	≤30	PASS
		2440	1.65	≤30	PASS
		2480	1.3	≤30	PASS

Test Graphs

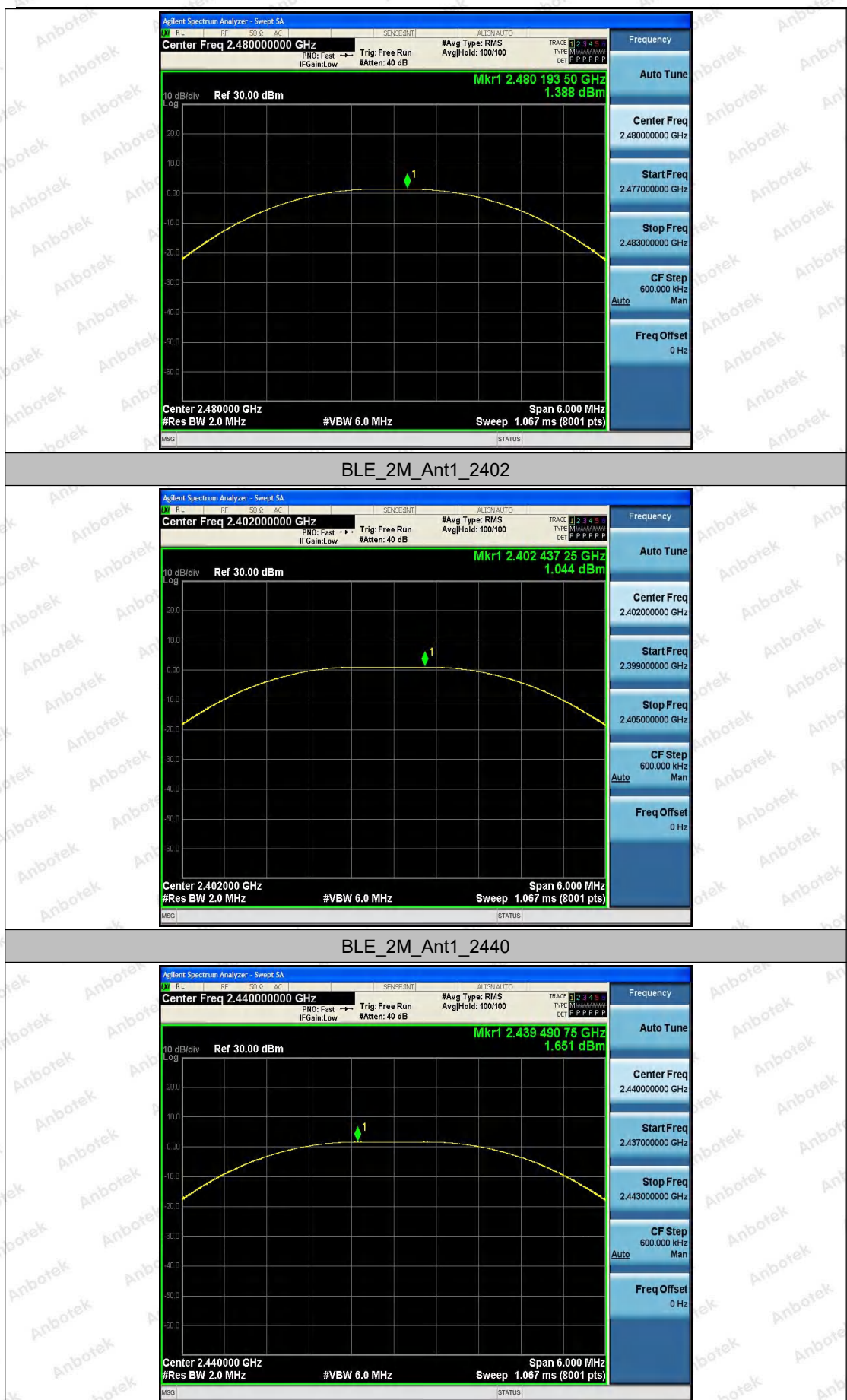


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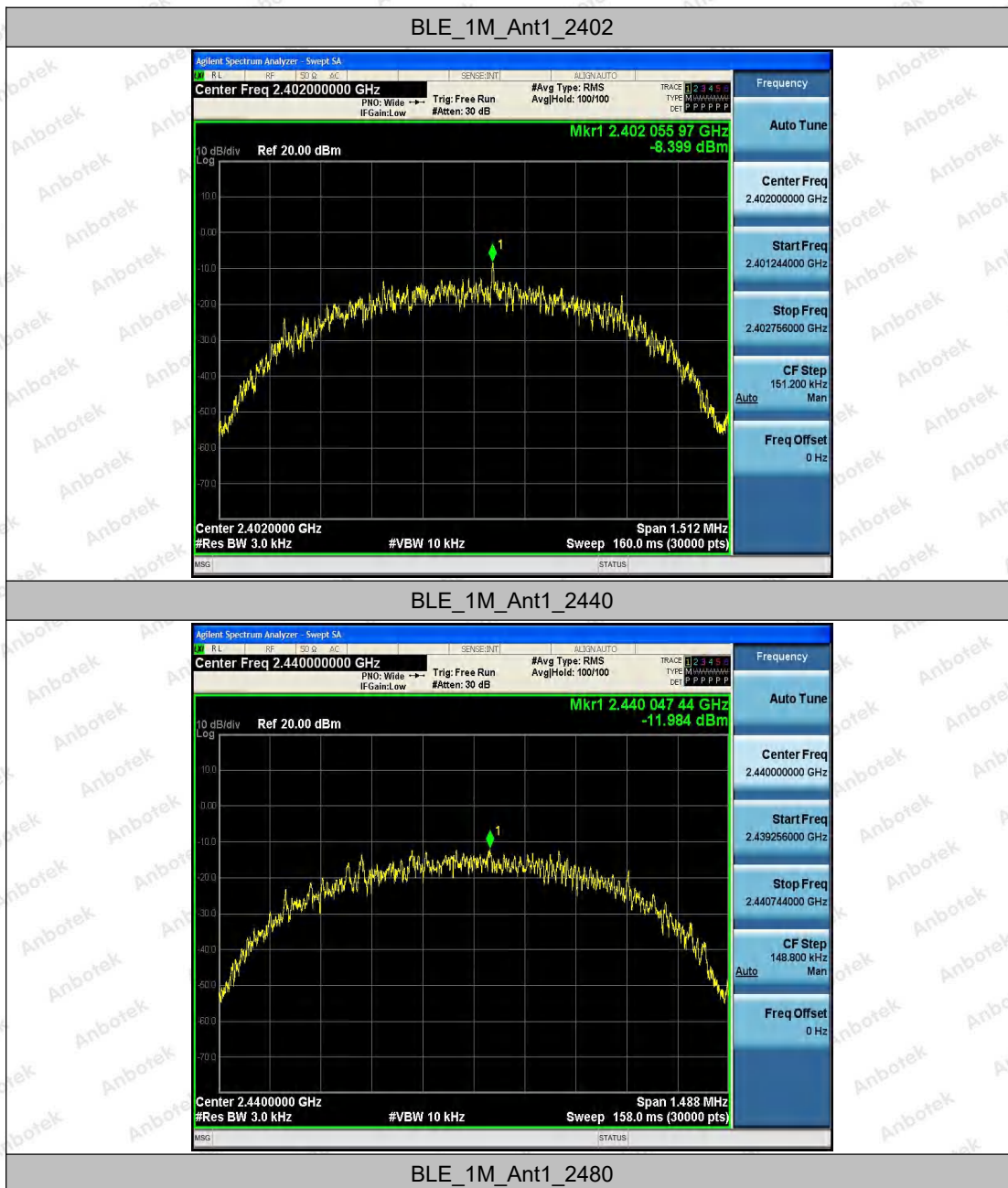
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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.4	≤8	PASS
		2440	-11.98	≤8	PASS
		2480	-12.3	≤8	PASS
BLE_2M	Ant1	2402	-14.23	≤8	PASS
		2440	-13.53	≤8	PASS
		2480	-13.16	≤8	PASS

Test Graphs

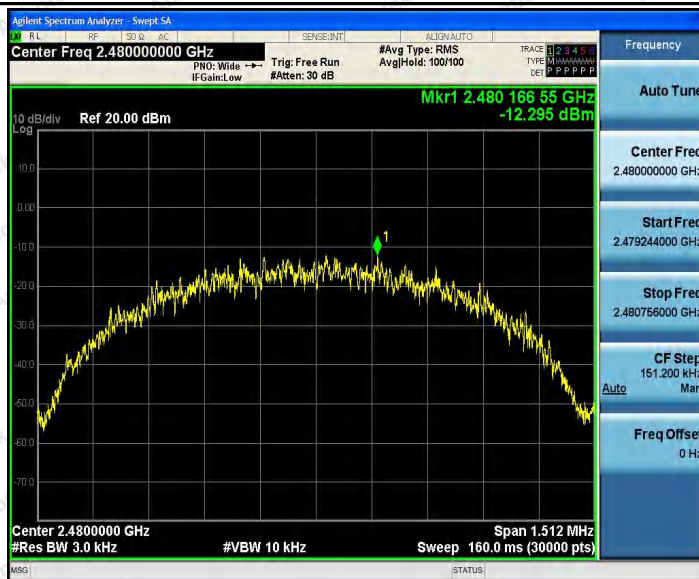


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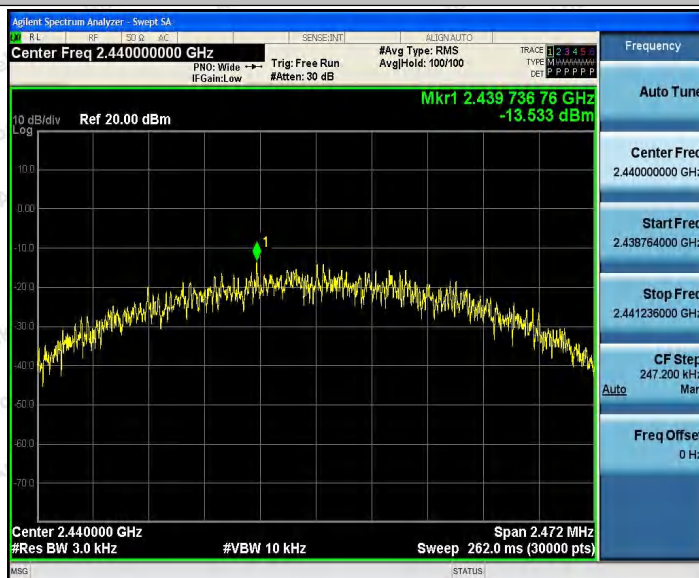
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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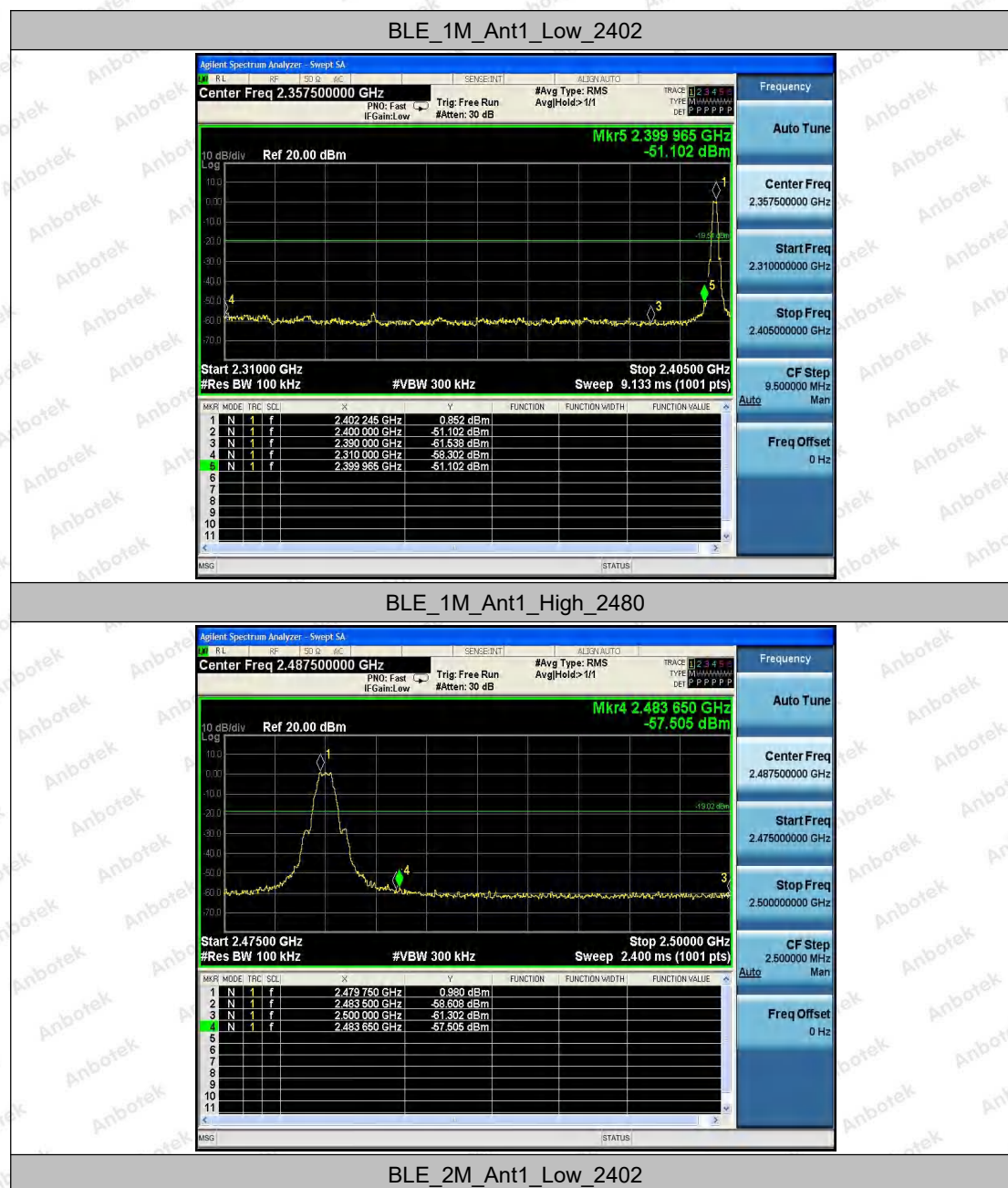
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.46	-51.1	≤-19.54	PASS
		High	2480	0.98	-57.51	≤-19.02	PASS
BLE_2M	Ant1	Low	2402	-1.68	-31.11	≤-21.68	PASS
		High	2480	0.58	-54.34	≤-19.43	PASS

Test Graphs

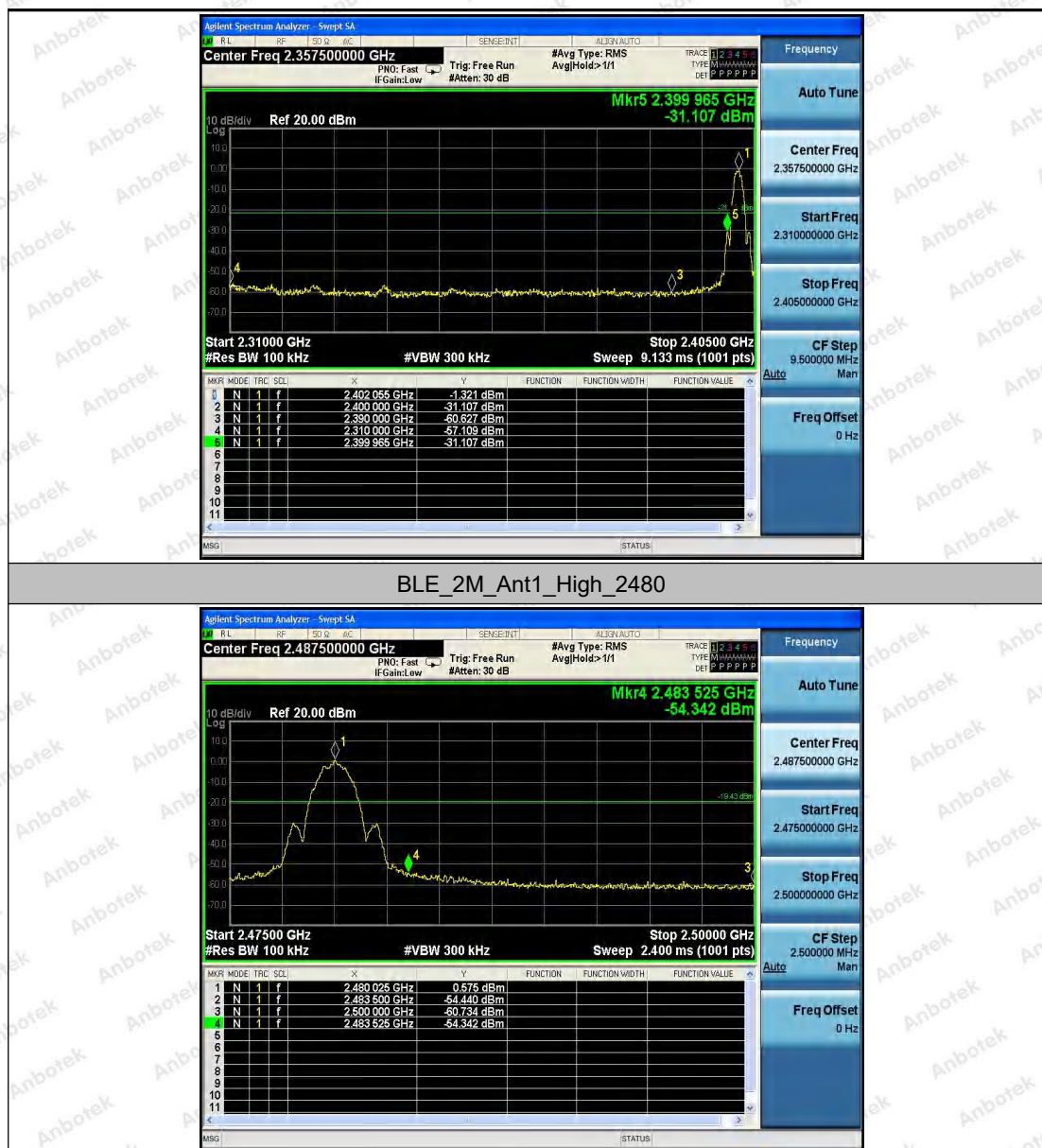


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Appendix F: Conducted Spurious Emission

Test Result

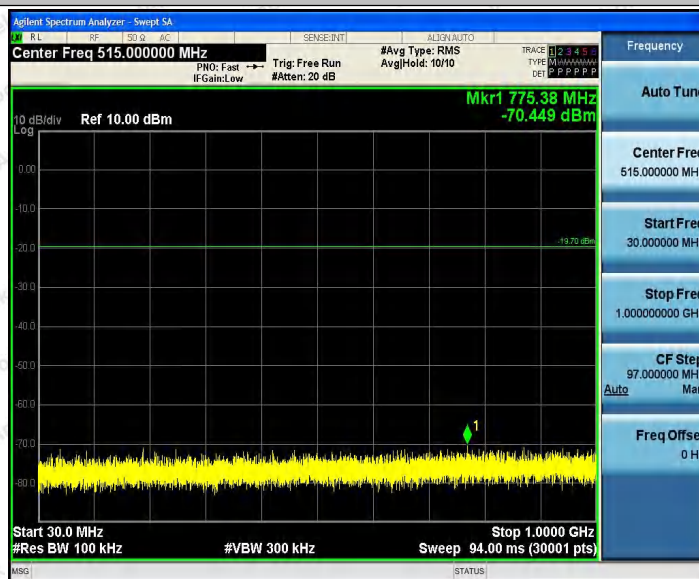
Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.30	0.30	---	PASS
			30~1000	0.30	-70.45	≤-19.7	PASS
			1000~26500	0.30	-54.82	≤-19.7	PASS
		2440	Reference	1.02	1.02	---	PASS
			30~1000	1.02	-70.78	≤-18.99	PASS
			1000~26500	1.02	-54.56	≤-18.99	PASS
		2480	Reference	0.69	0.69	---	PASS
			30~1000	0.69	-70.8	≤-19.31	PASS
			1000~26500	0.69	-53.82	≤-19.31	PASS
BLE_2M	Ant1	2402	Reference	0.29	0.29	---	PASS
			30~1000	0.29	-70.51	≤-19.71	PASS
			1000~26500	0.29	-55.39	≤-19.71	PASS
		2440	Reference	0.19	0.19	---	PASS
			30~1000	0.19	-70.52	≤-19.81	PASS
			1000~26500	0.19	-55.65	≤-19.81	PASS
		2480	Reference	-0.04	-0.04	---	PASS
			30~1000	-0.04	-70.34	≤-20.04	PASS
			1000~26500	-0.04	-55.01	≤-20.04	PASS

Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

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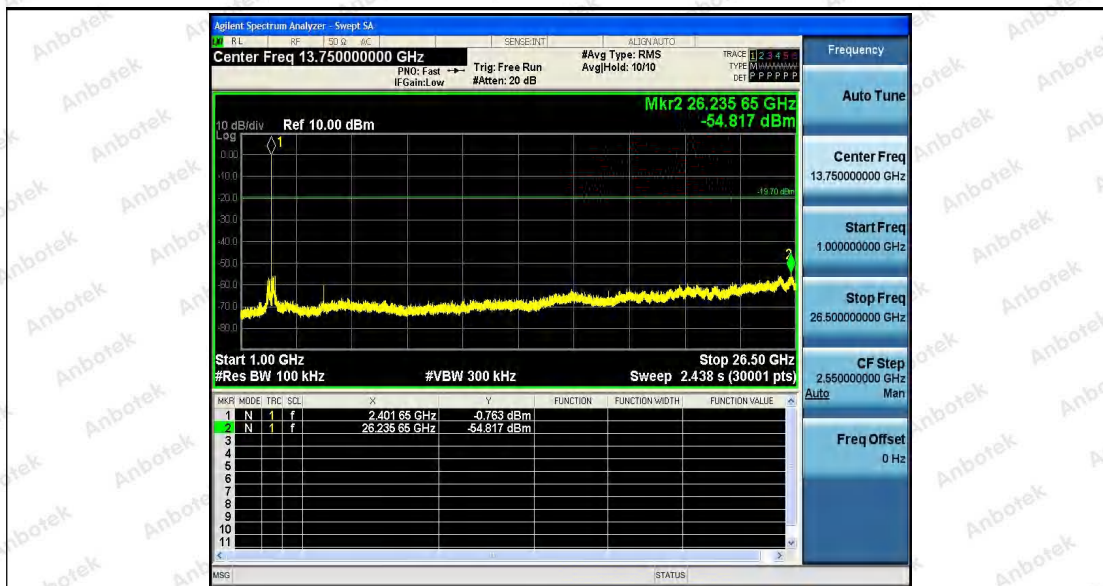
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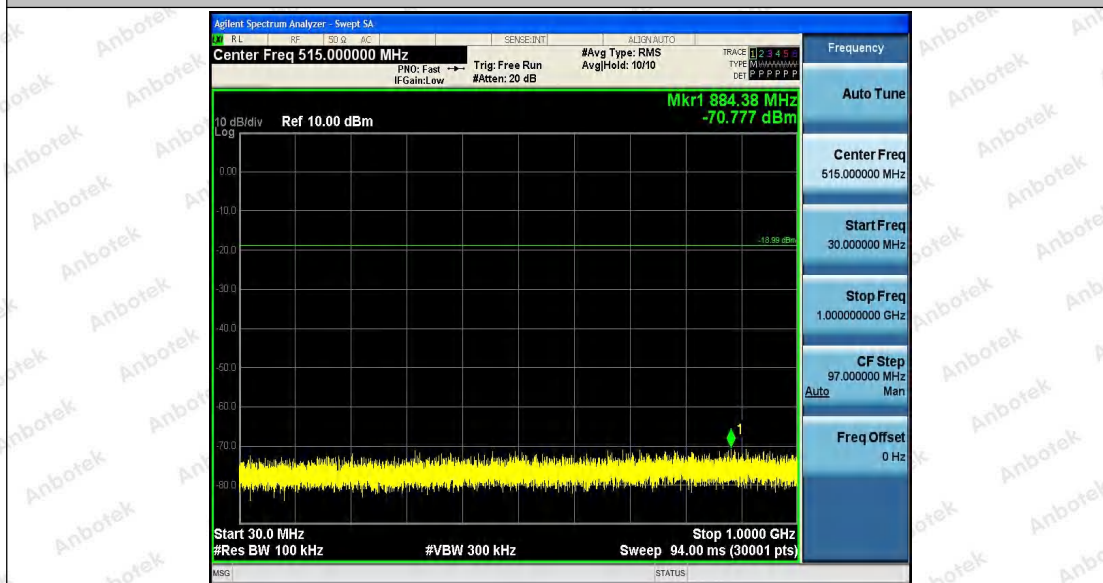
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



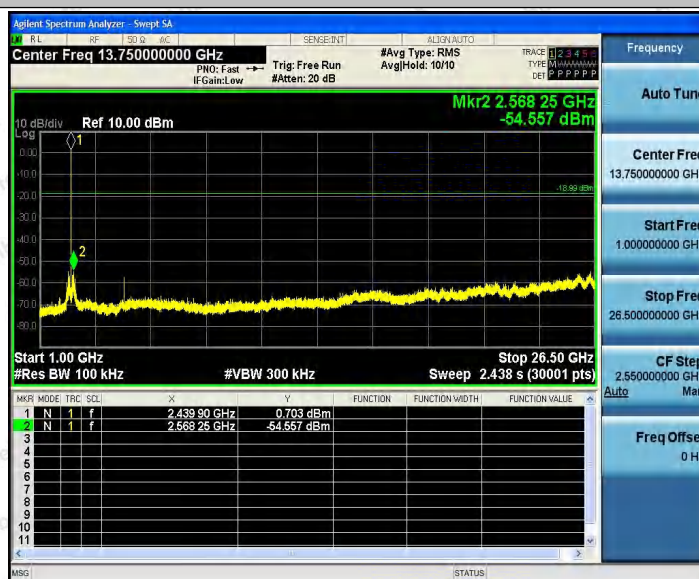
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



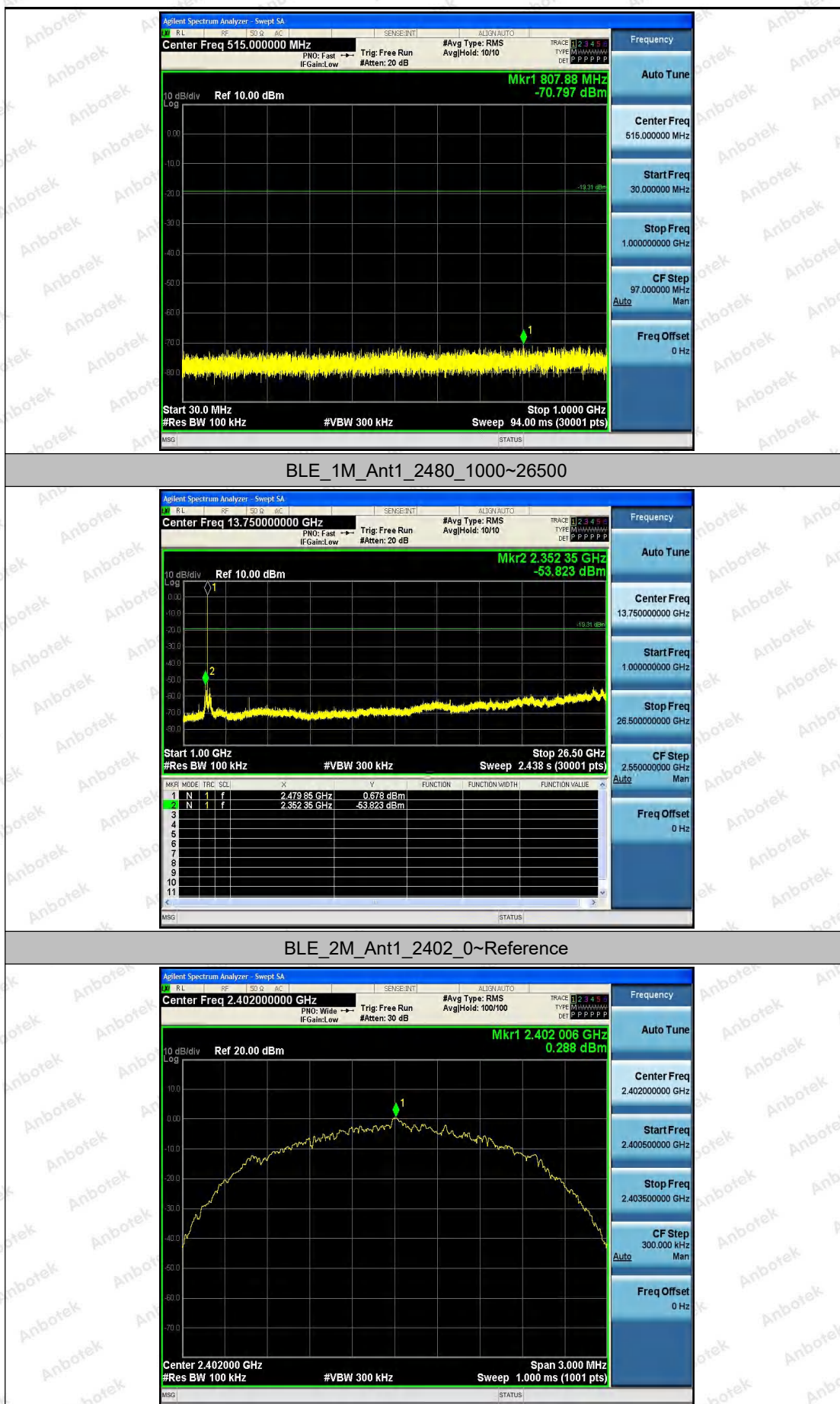
BLE_1M_Ant1_2480_30~1000

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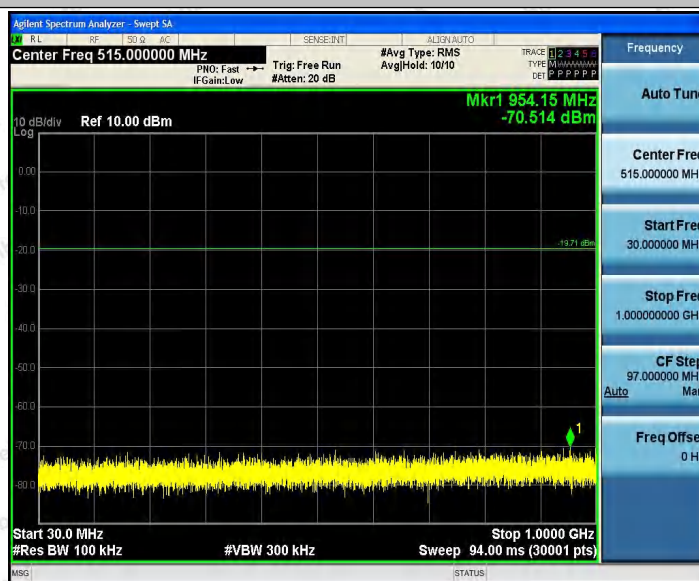
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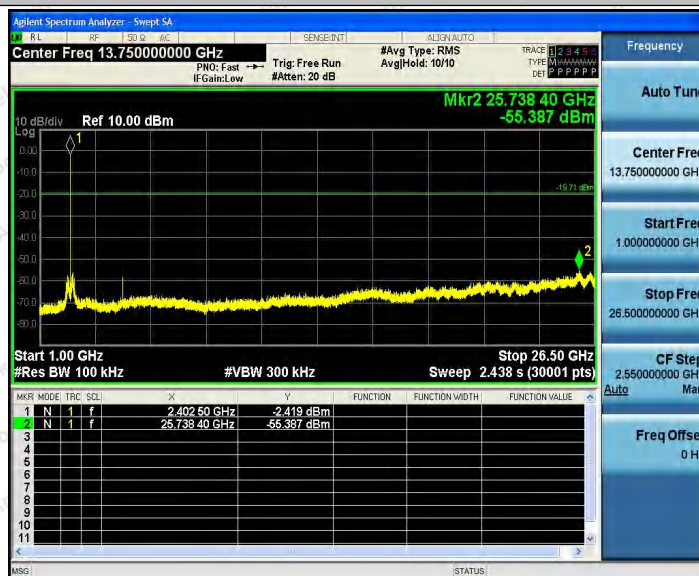
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BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



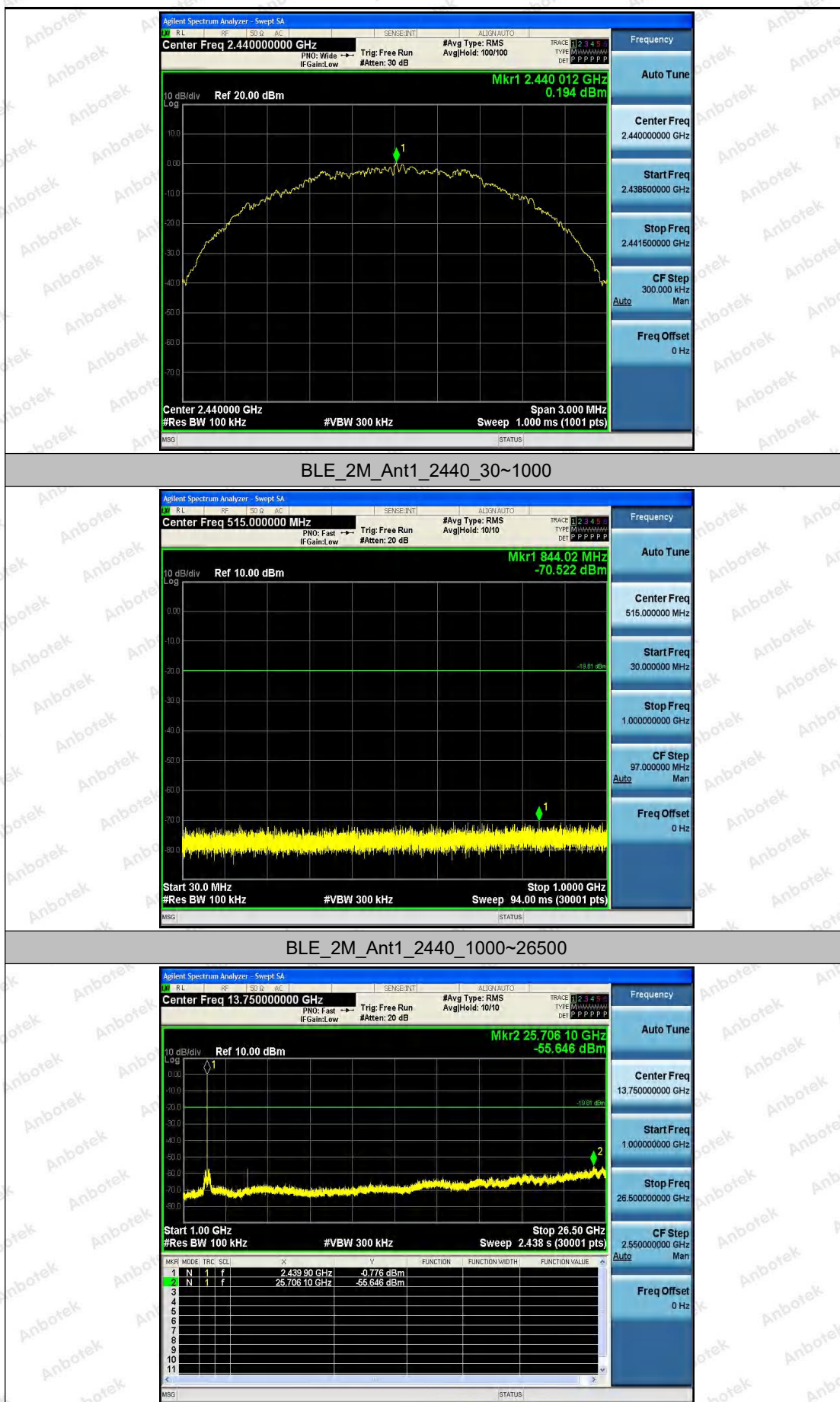
BLE_2M_Ant1_2440_0~Reference

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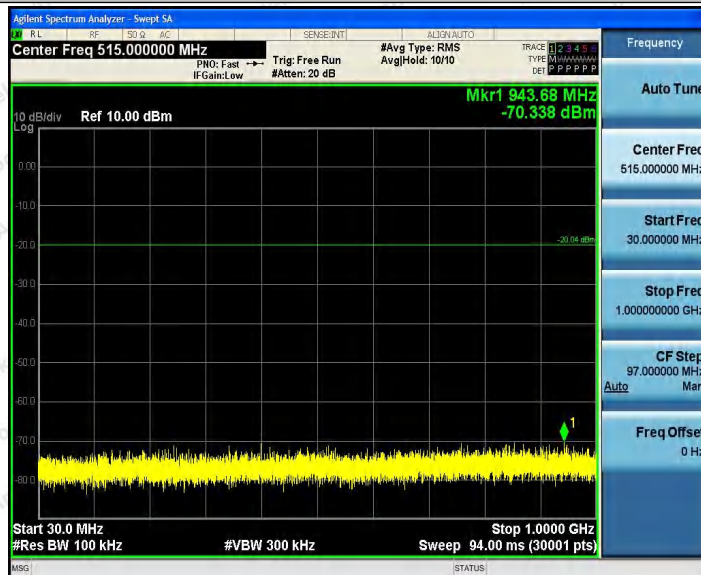
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



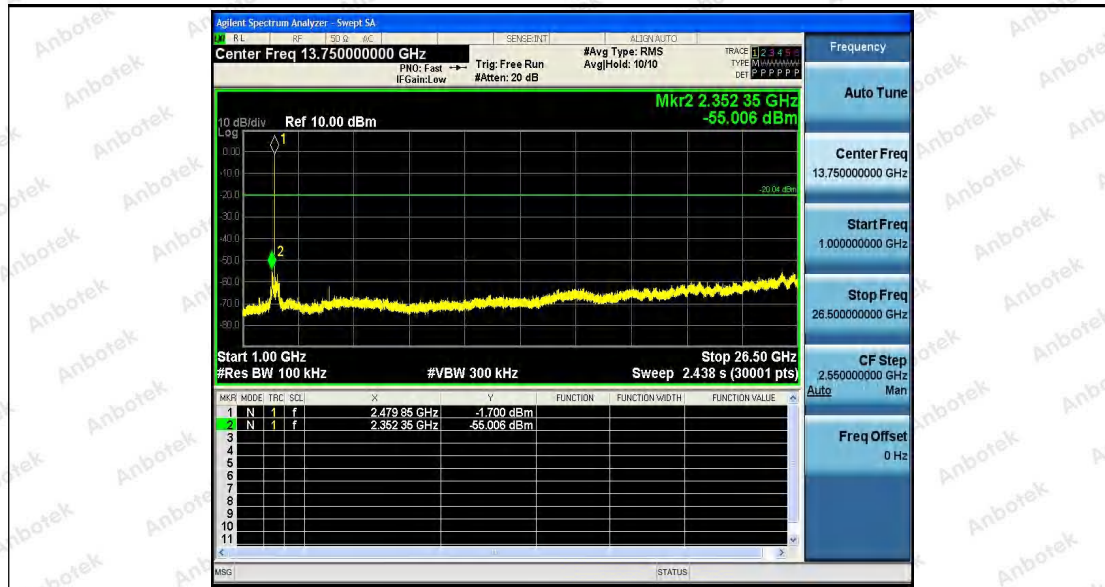
BLE_2M_Ant1_2480_1000~26500

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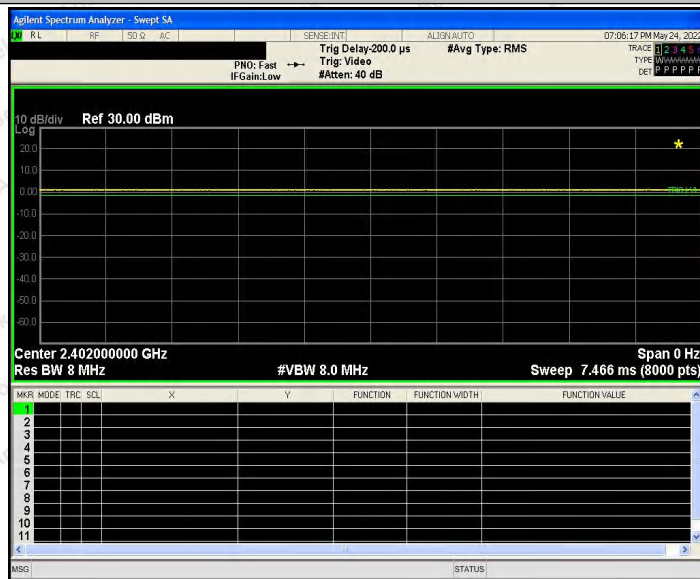
Appendix G: Duty Cycle

Test Result

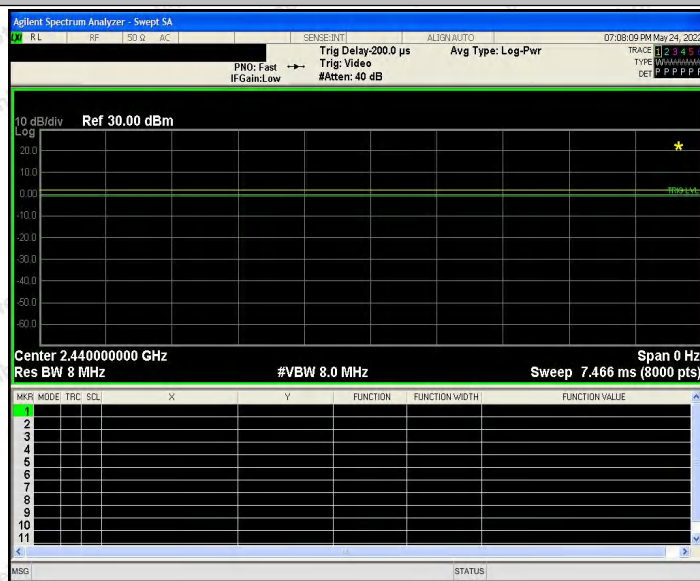
Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
BLE_1M	Ant1	2402	7.466	7.466	1	100	0	---	PASS
		2440	7.466	7.466	1	100	0	---	PASS
		2480	7.466	7.466	1	100	0	---	PASS
BLE_2M	Ant1	2402	7.466	7.466	1	100	0	---	PASS
		2440	7.466	7.466	1	100	0	---	PASS
		2480	7.466	7.466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

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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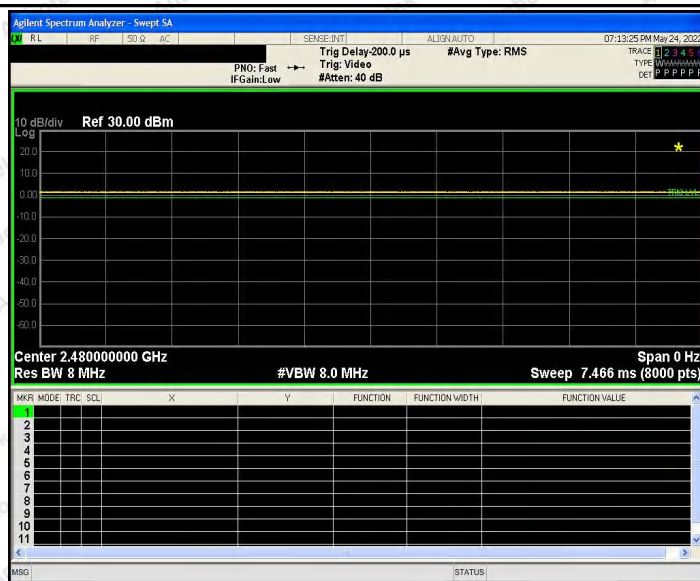
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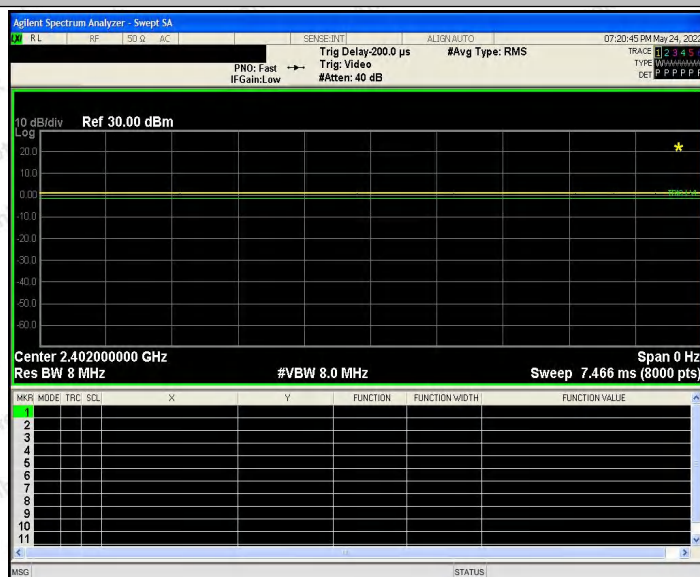
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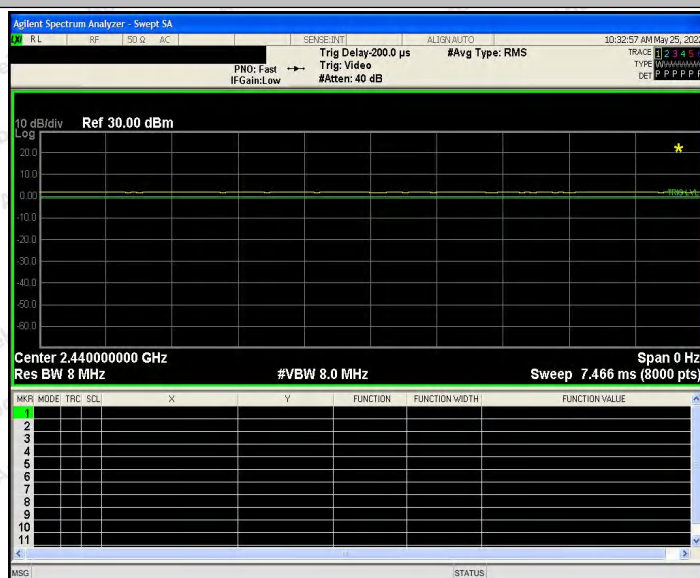
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

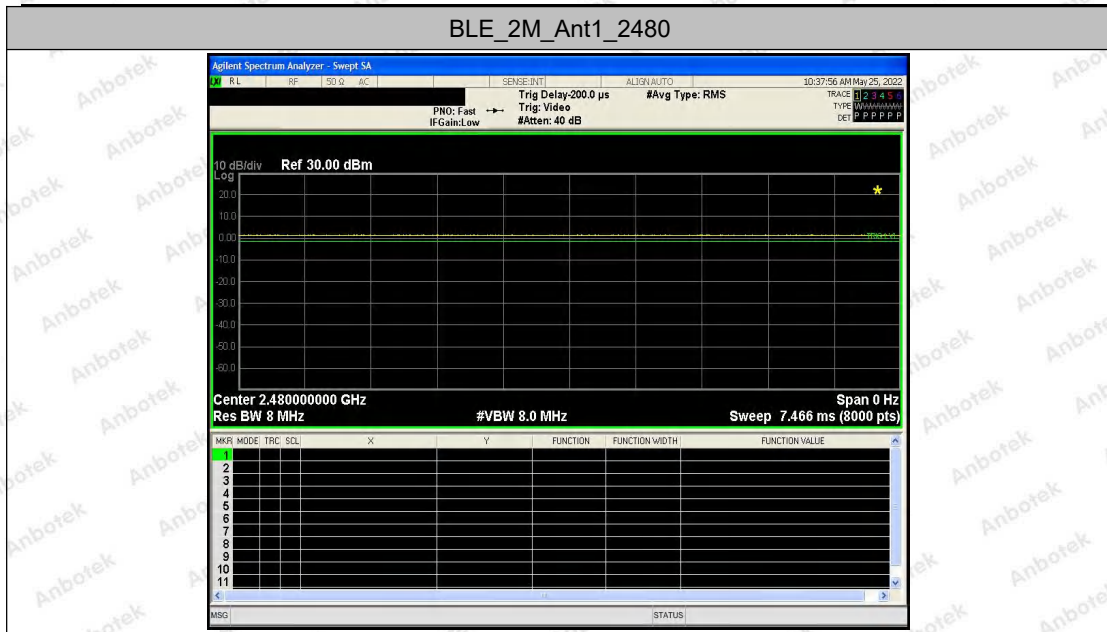


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