

Appendix Test Data

Report No.:	18220WC20154701	Test Sample No.:	1-2-2
Start Test Date:	2022.7.13	Finish Test Date:	2022.7.22
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3℃	Relative Humidity:	57.1 %
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	0.664	2401.672	2402.336	≥0.5	PASS
		2440	0.660	2439.676	2440.336	≥0.5	PASS
		2480	0.672	2479.660	2480.332	≥0.5	PASS
BLE_2M	Ant1	2402	1.128	2401.428	2402.556	≥0.5	PASS
		2440	1.132	2439.444	2440.576	≥0.5	PASS
		2480	1.104	2479.448	2480.552	≥0.5	PASS

Test Graphs

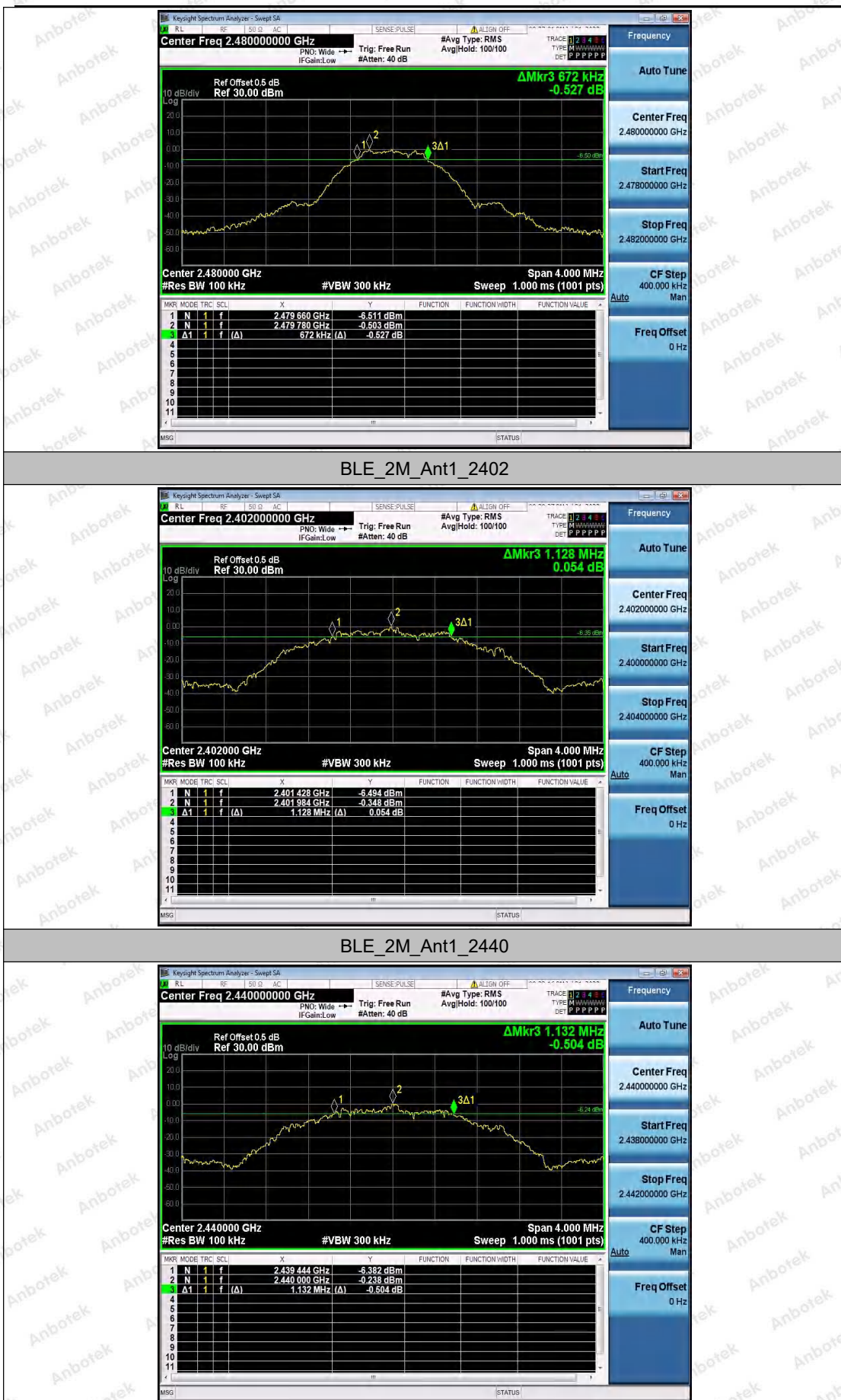
BLE_1M_Ant1_2402



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	1.0351	2401.491	2402.526	---	PASS
		2440	1.0343	2439.491	2440.525	---	PASS
		2480	1.0360	2479.492	2480.528	---	PASS
BLE_2M	Ant1	2402	2.0891	2400.971	2403.060	---	PASS
		2440	2.0747	2438.992	2441.067	---	PASS
		2480	2.0802	2478.981	2481.061	---	PASS

Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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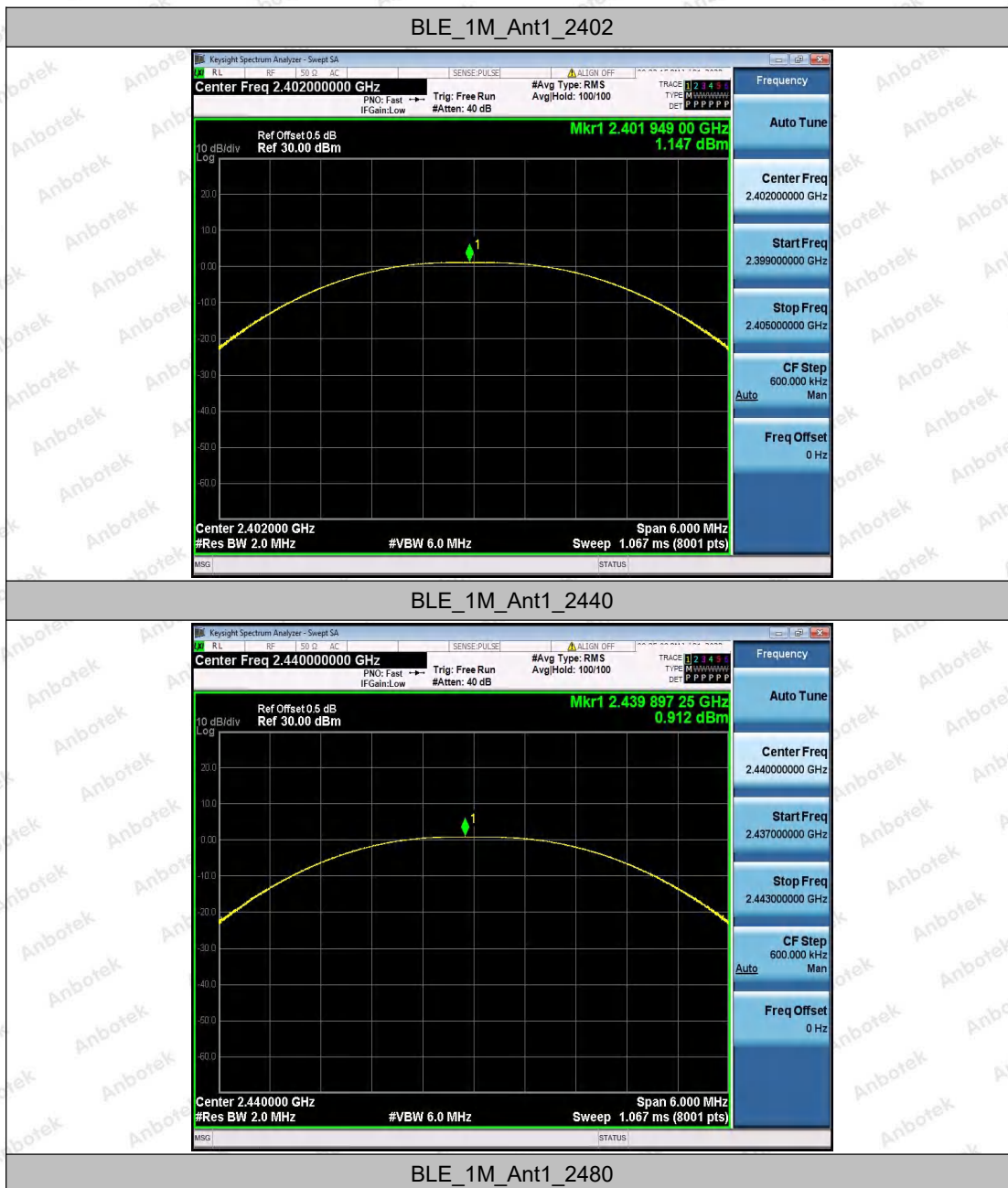
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.15	≤30	PASS
		2440	0.91	≤30	PASS
		2480	0.55	≤30	PASS
BLE_2M	Ant1	2402	1.24	≤30	PASS
		2440	0.98	≤30	PASS
		2480	0.62	≤30	PASS

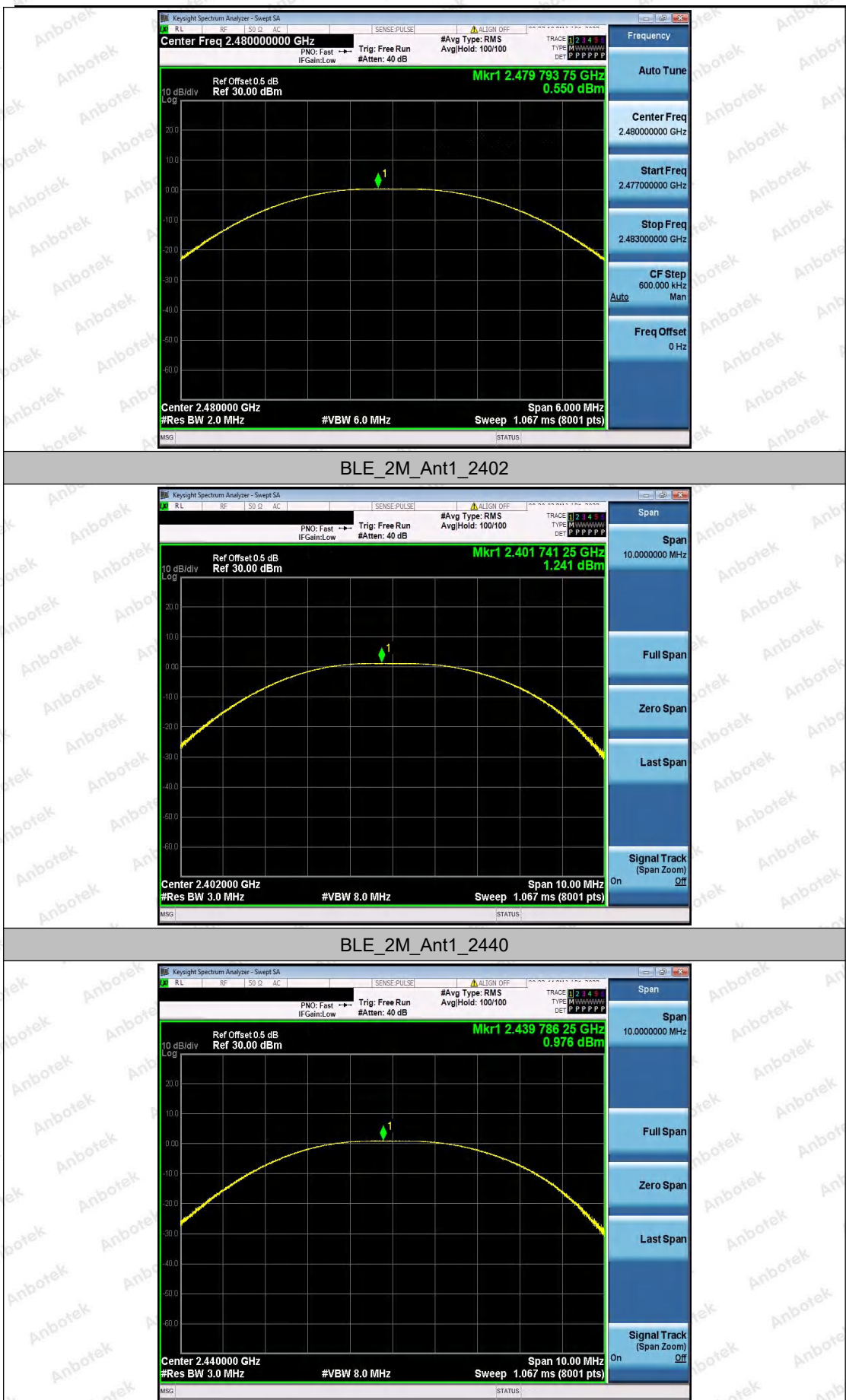
Test Graphs



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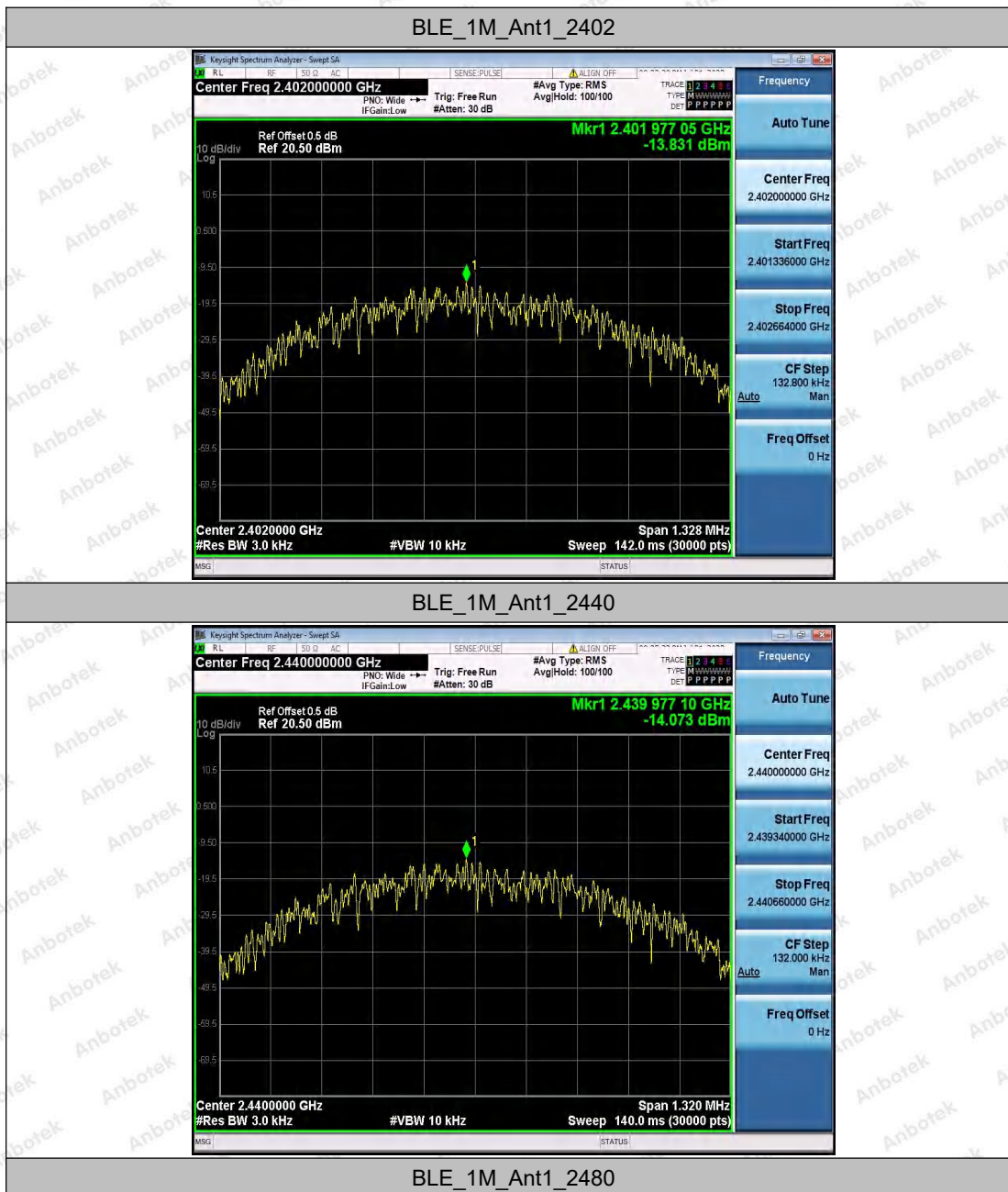
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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.83	≤8	PASS
		2440	-14.07	≤8	PASS
		2480	-14.42	≤8	PASS
BLE_2M	Ant1	2402	-15.11	≤8	PASS
		2440	-15.41	≤8	PASS
		2480	-15.74	≤8	PASS

Test Graphs

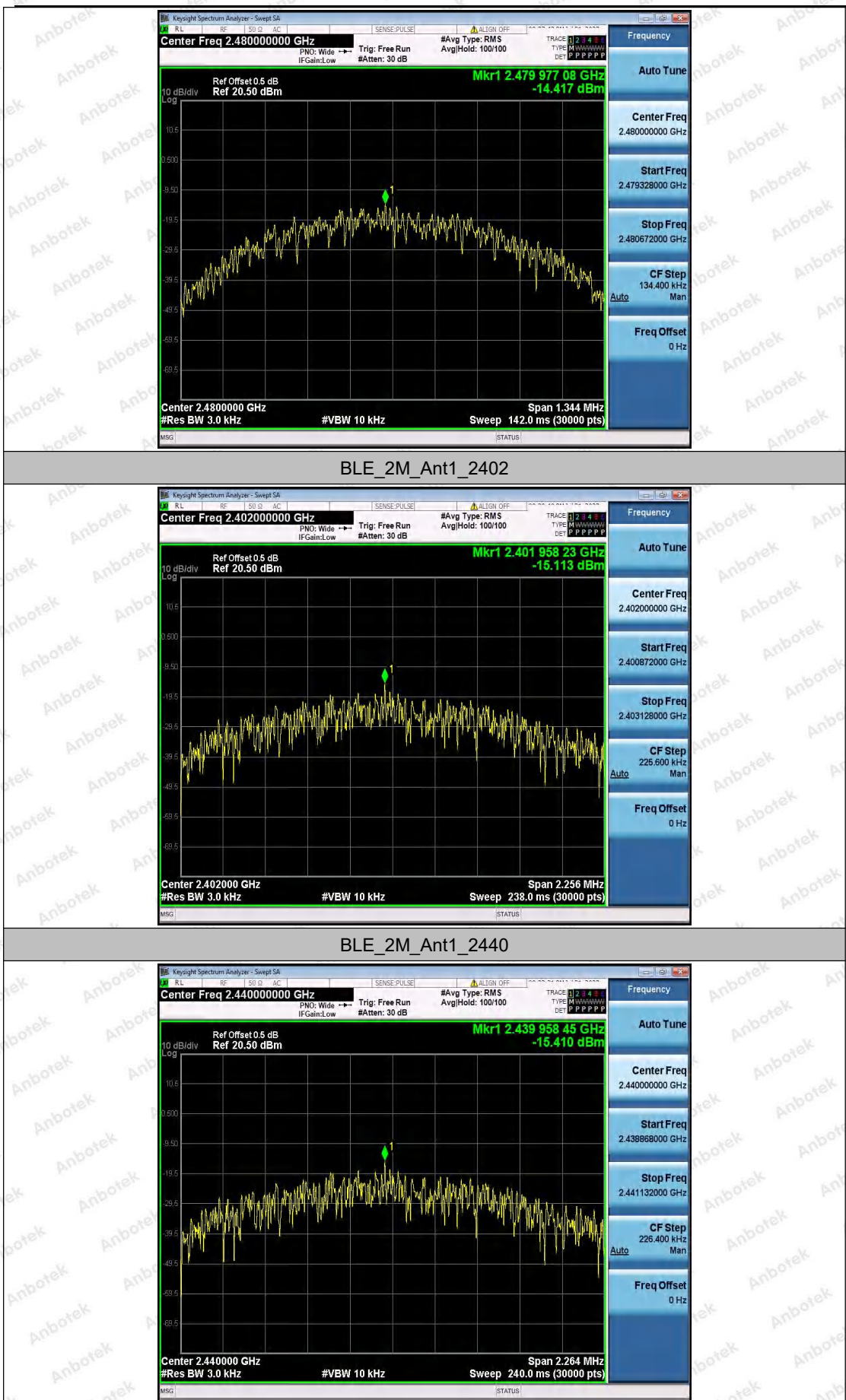


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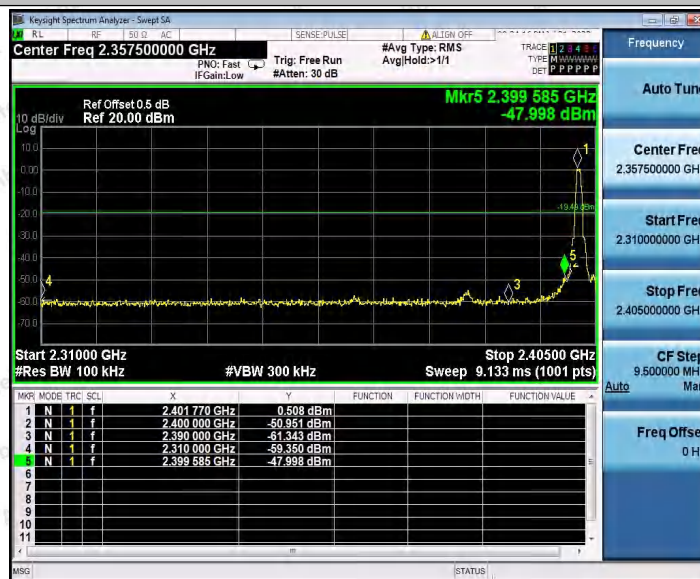
Appendix E: Band edge measurements

Test Result

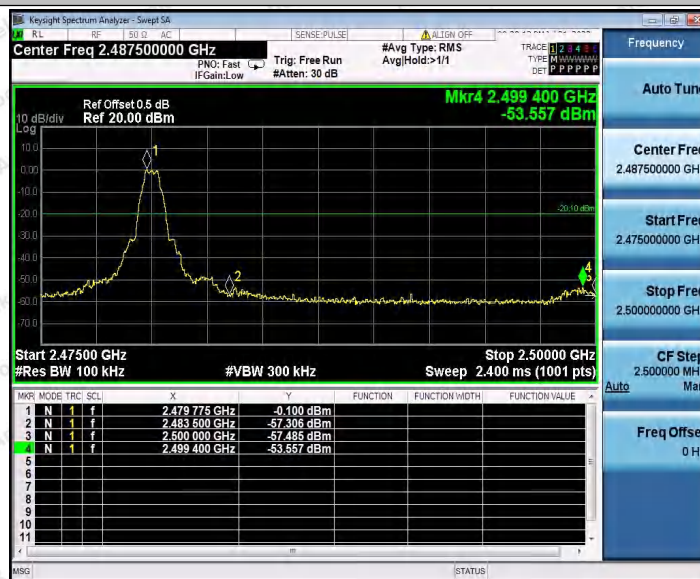
Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.51	-48	≤ -19.49	PASS
		High	2480	-0.10	-53.56	≤ -20.1	PASS
BLE_2M	Ant1	Low	2402	0.01	-31.79	≤ -19.99	PASS
		High	2480	-0.61	-52.1	≤ -20.61	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

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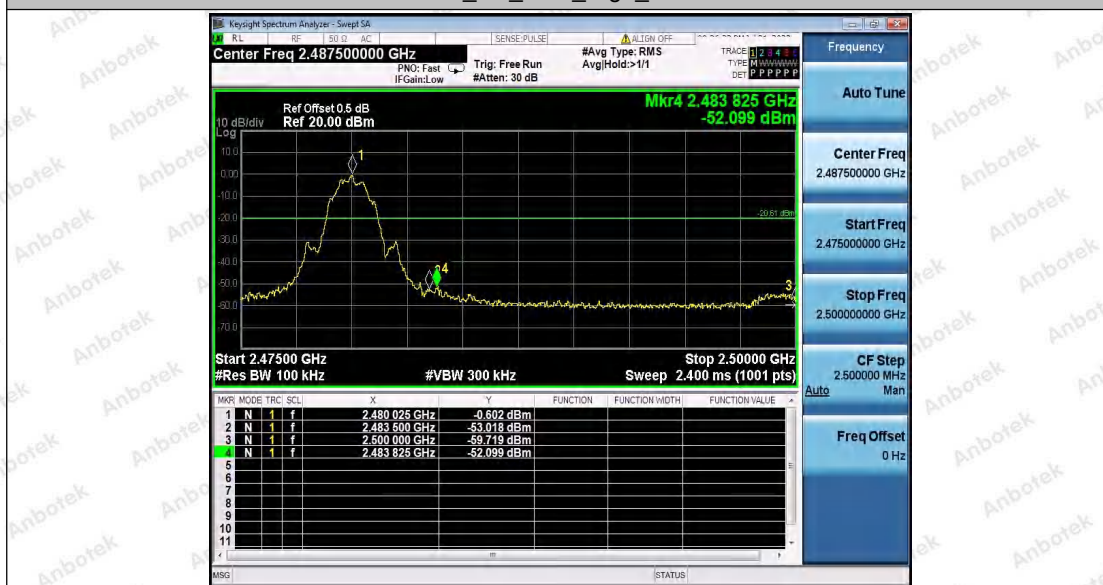
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BLE_2M_Ant1_High_2480



Appendix F: Conducted Spurious Emission

Test Result

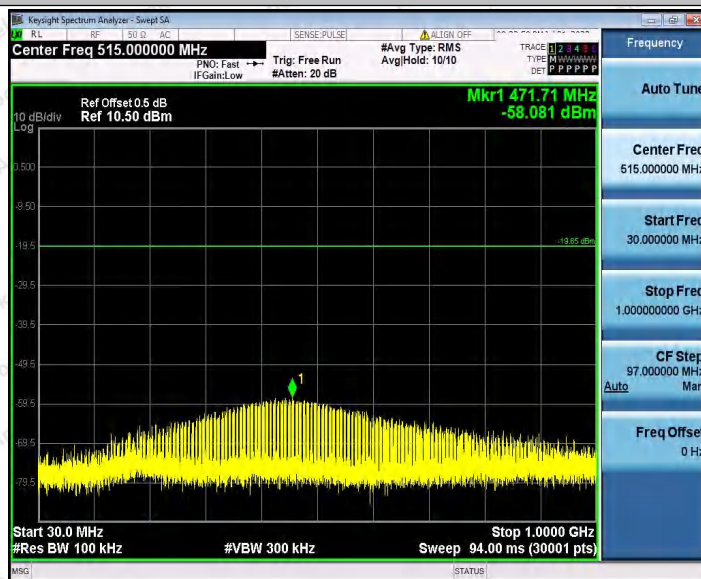
Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.35	0.35	---	PASS
			30~1000	0.35	-58.08	≤-19.65	PASS
			1000~26500	0.35	-54.39	≤-19.65	PASS
		2440	Reference	0.07	0.07	---	PASS
			30~1000	0.07	-58.32	≤-19.93	PASS
			1000~26500	0.07	-53.97	≤-19.93	PASS
		2480	Reference	-0.25	-0.25	---	PASS
			30~1000	-0.25	-58	≤-20.25	PASS
			1000~26500	-0.25	-54.12	≤-20.25	PASS
BLE_2M	Ant1	2402	Reference	-0.37	-0.37	---	PASS
			30~1000	-0.37	-57.82	≤-20.37	PASS
			1000~26500	-0.37	-54.55	≤-20.37	PASS
		2440	Reference	-0.21	-0.21	---	PASS
			30~1000	-0.21	-58.33	≤-20.21	PASS
			1000~26500	-0.21	-53.75	≤-20.21	PASS
		2480	Reference	-0.62	-0.62	---	PASS
			30~1000	-0.62	-58.2	≤-20.62	PASS
			1000~26500	-0.62	-54.03	≤-20.62	PASS

Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



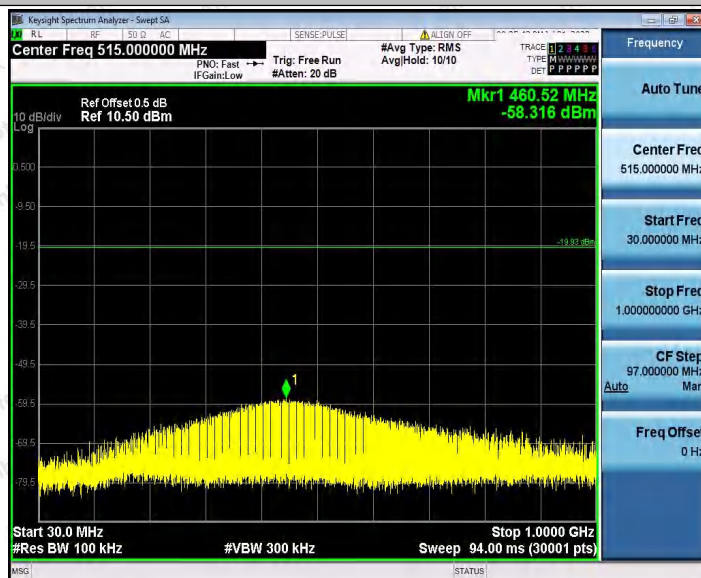
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

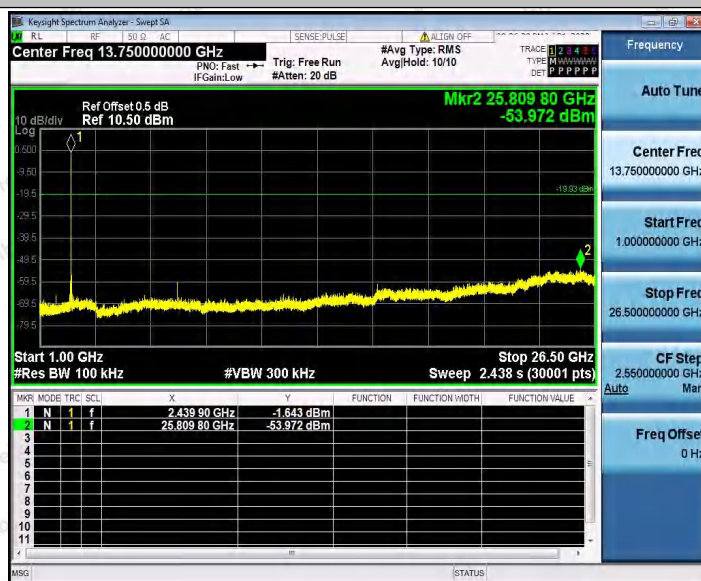


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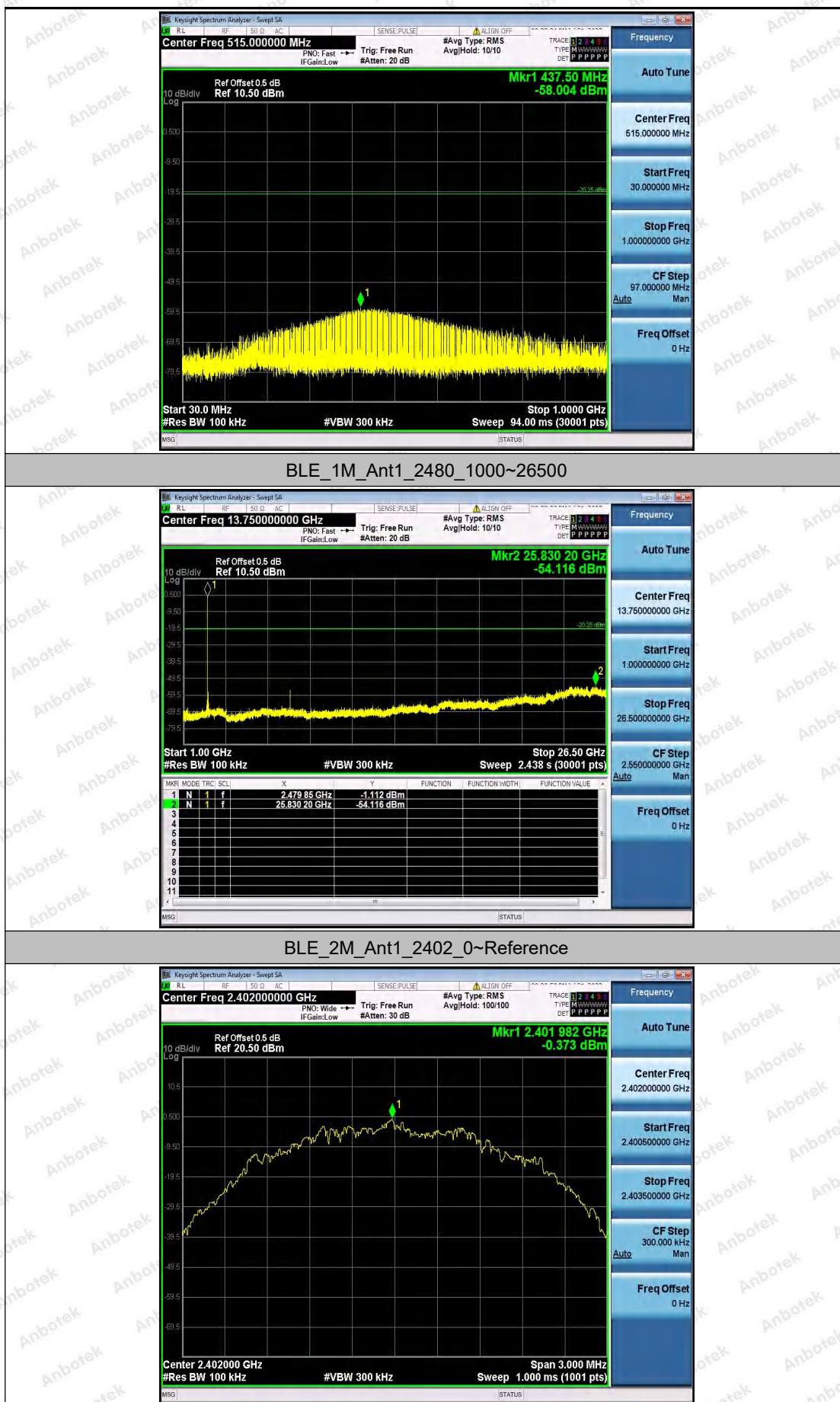
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

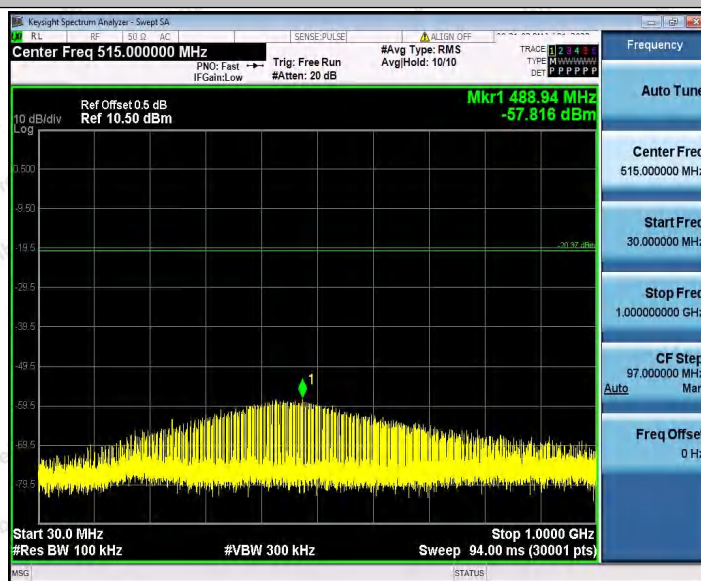


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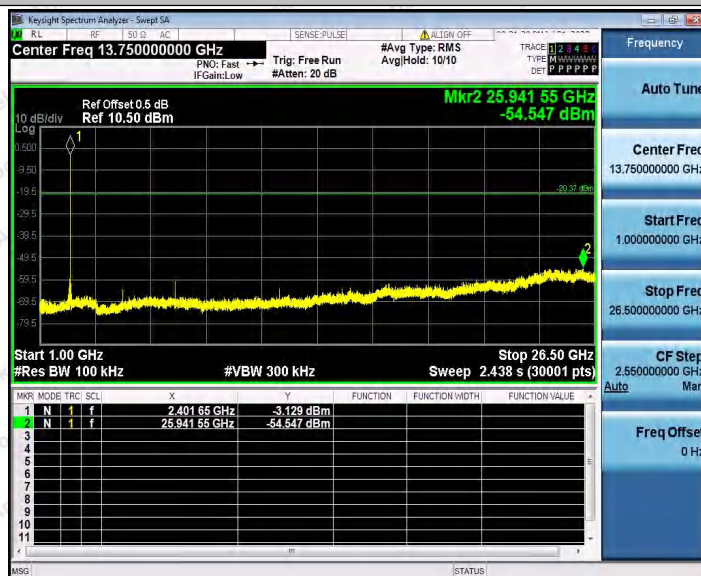
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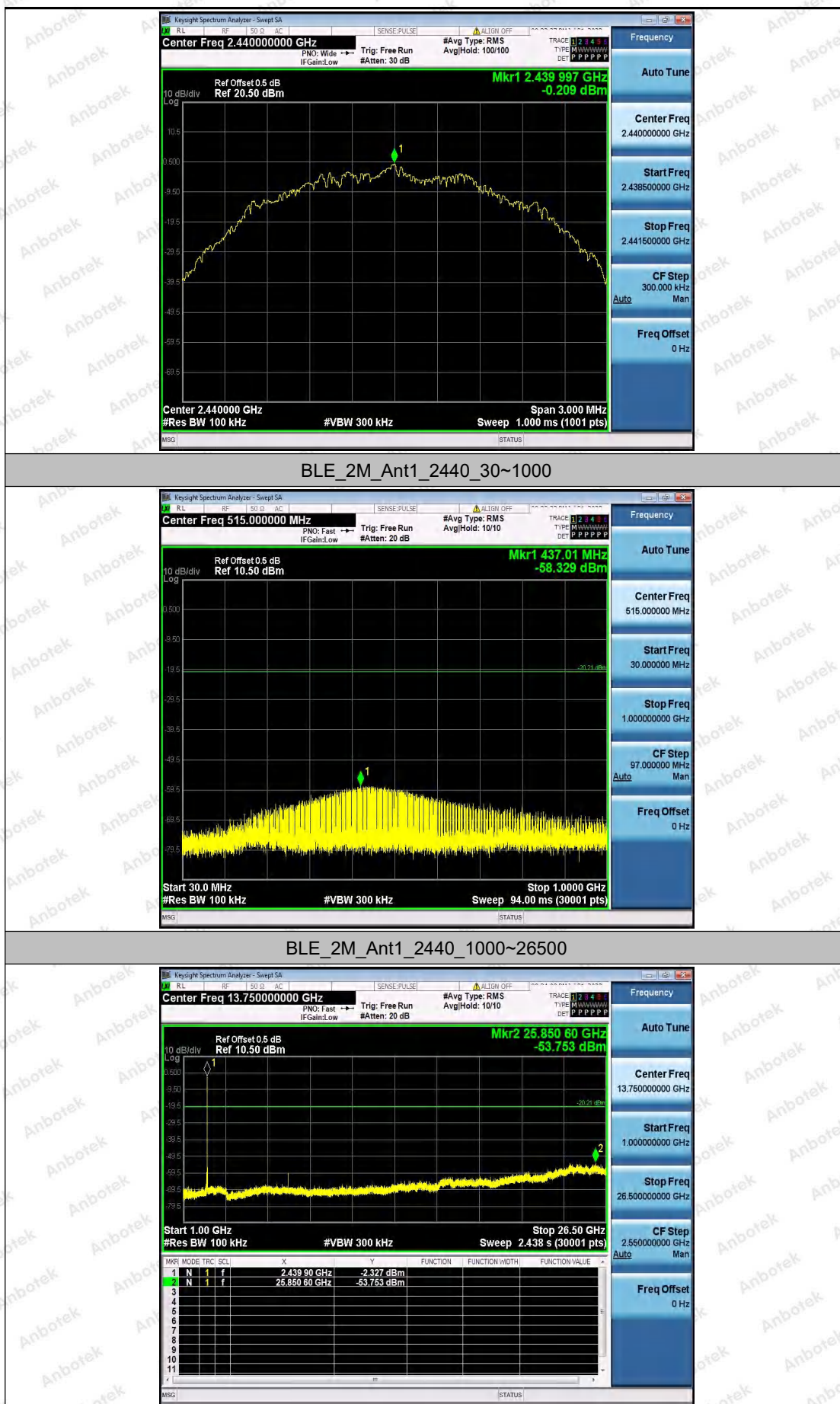
BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference



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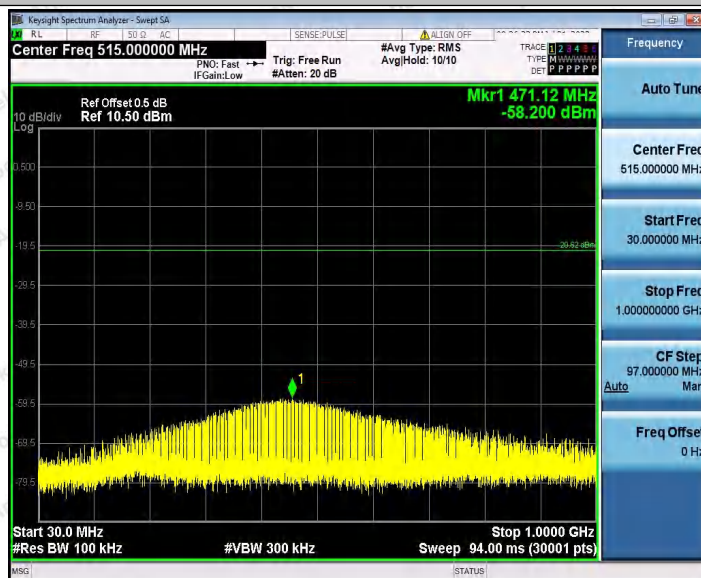
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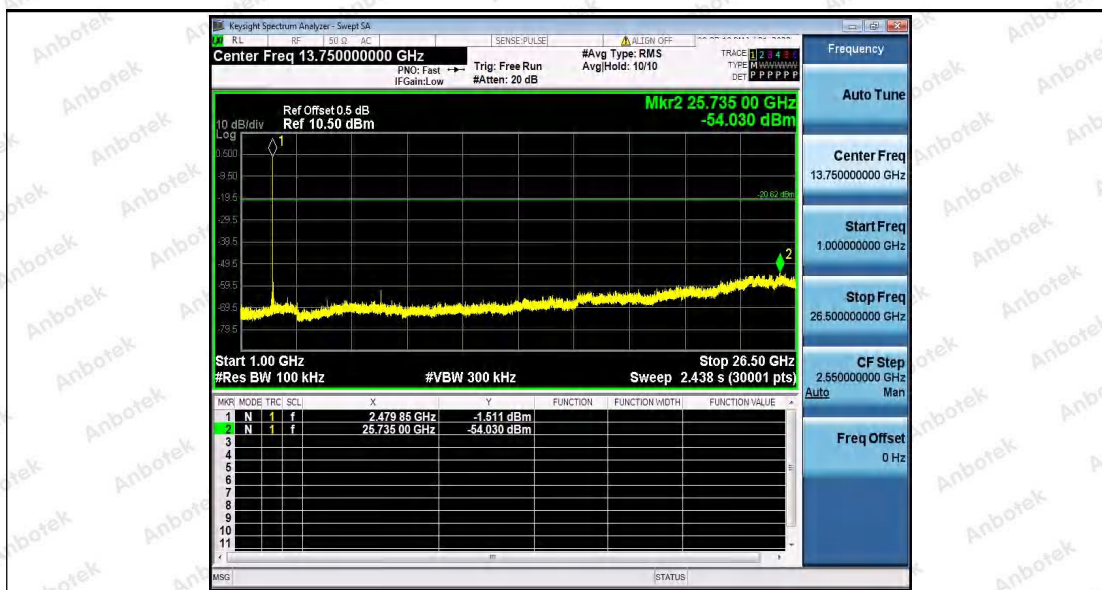
BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500



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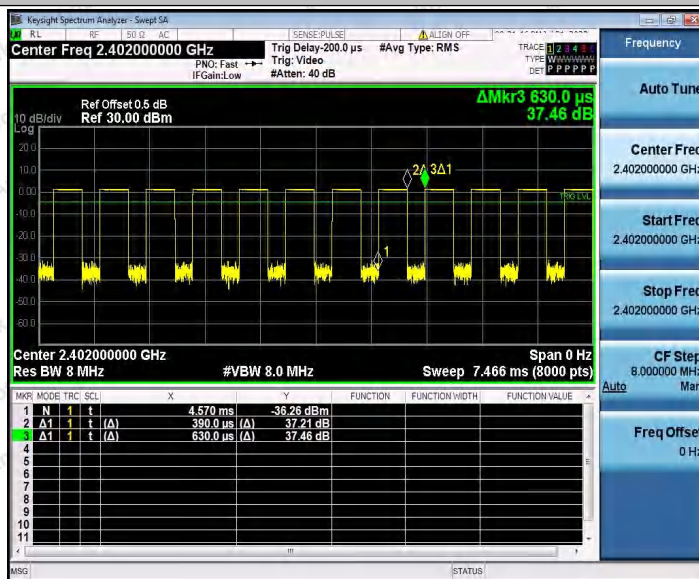
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
BLE_1M	Ant1	2402	0.39	0.63	0.6190	61.90	2.08	---	PASS
		2440	0.38	0.62	0.6129	61.29	2.13	---	PASS
		2480	0.38	0.62	0.6129	61.29	2.13	---	PASS
BLE_2M	Ant1	2402	0.20	0.62	0.3226	32.26	4.91	---	PASS
		2440	0.20	0.62	0.3226	32.26	4.91	---	PASS
		2480	0.20	0.62	0.3226	32.26	4.91	---	PASS

Test Graphs

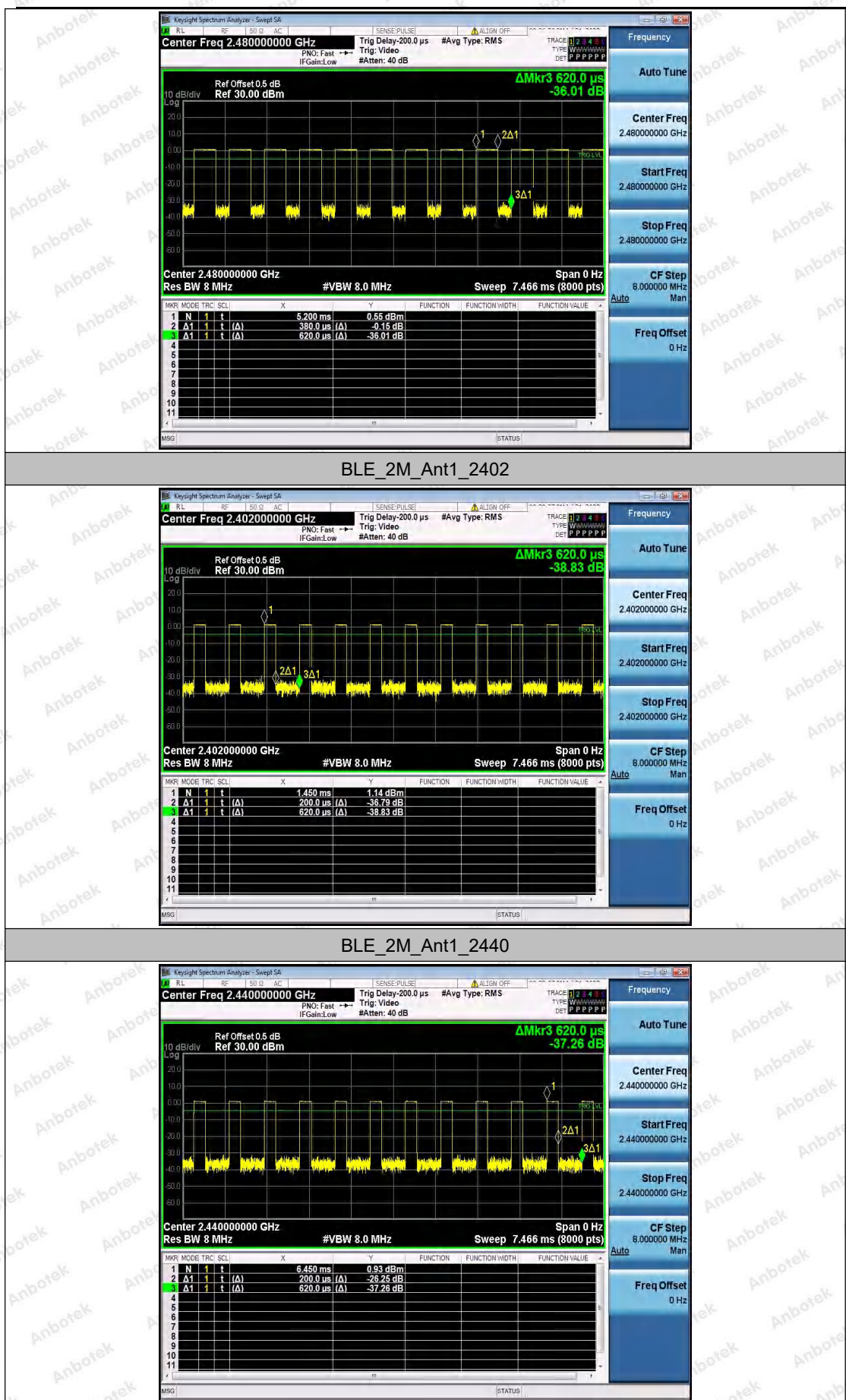
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

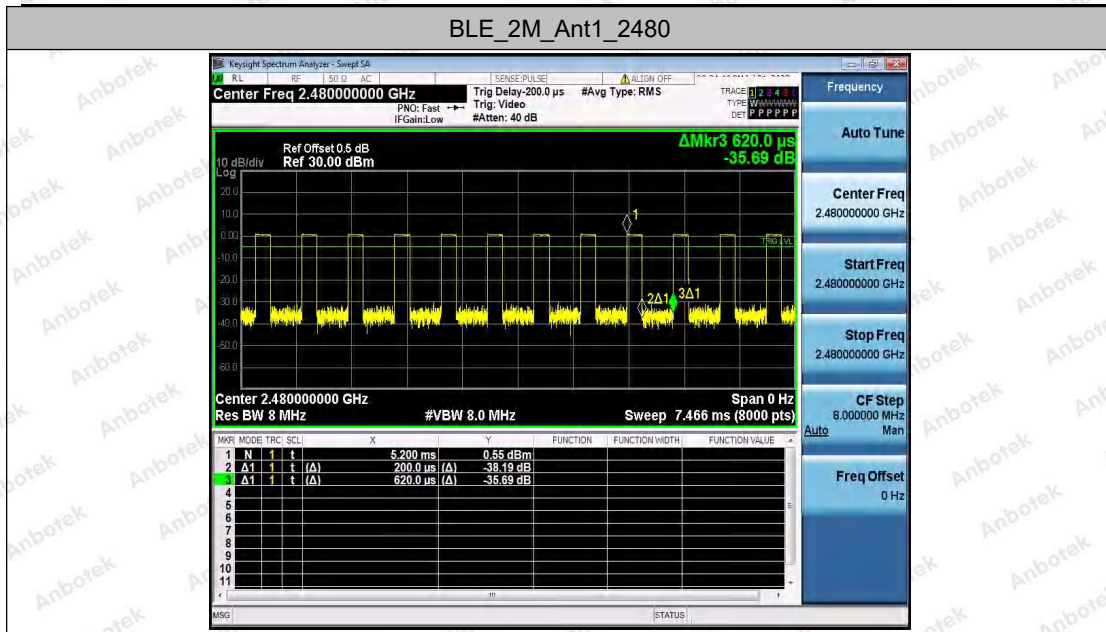


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