

Appendix Test Data

Report No.:	18220WC20086701	Test Sample No.:	1-2-2
Start Test Date:	2022.4.24	Finish Test Date:	2022.4.29
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	56 %
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	0.620	2401.648	2402.268	≥0.5	PASS
		2440	0.700	2439.648	2440.348	≥0.5	PASS
		2480	0.708	2479.644	2480.352	≥0.5	PASS
BLE_2M	Ant1	2402	1.204	2401.376	2402.580	≥0.5	PASS
		2440	1.164	2439.404	2440.568	≥0.5	PASS
		2480	1.096	2479.400	2480.496	≥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	1.0395	2401.494	2402.533	---	PASS
		2440	1.0149	2439.500	2440.514	---	PASS
		2480	1.0449	2479.494	2480.539	---	PASS
BLE_2M	Ant1	2402	2.0505	2401.001	2403.051	---	PASS
		2440	2.0421	2439.000	2441.042	---	PASS
		2480	2.0814	2478.986	2481.067	---	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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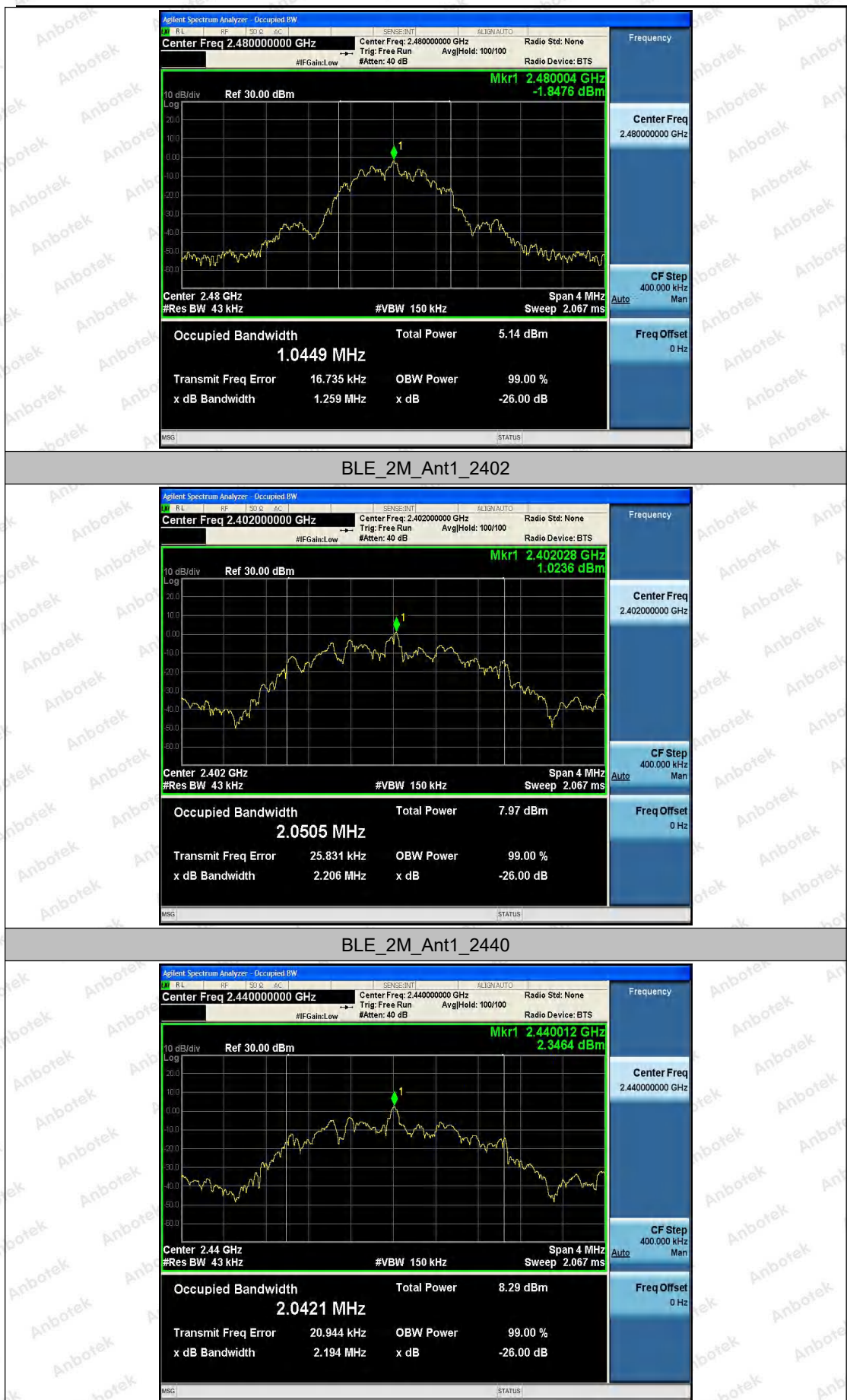
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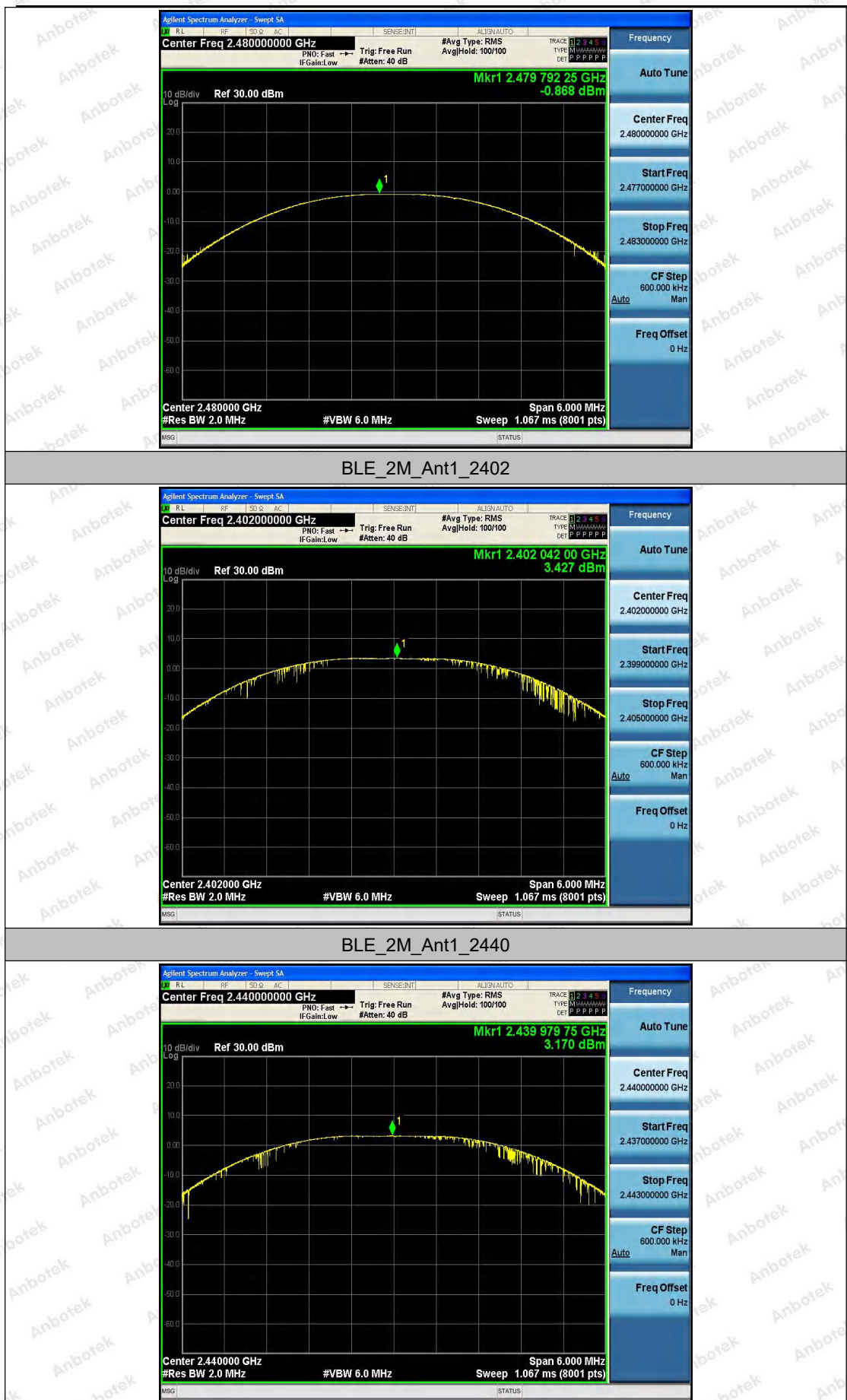
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.22	≤30	PASS
		2440	-0.7	≤30	PASS
		2480	-0.87	≤30	PASS
BLE_2M	Ant1	2402	3.43	≤30	PASS
		2440	3.17	≤30	PASS
		2480	3.51	≤30	PASS



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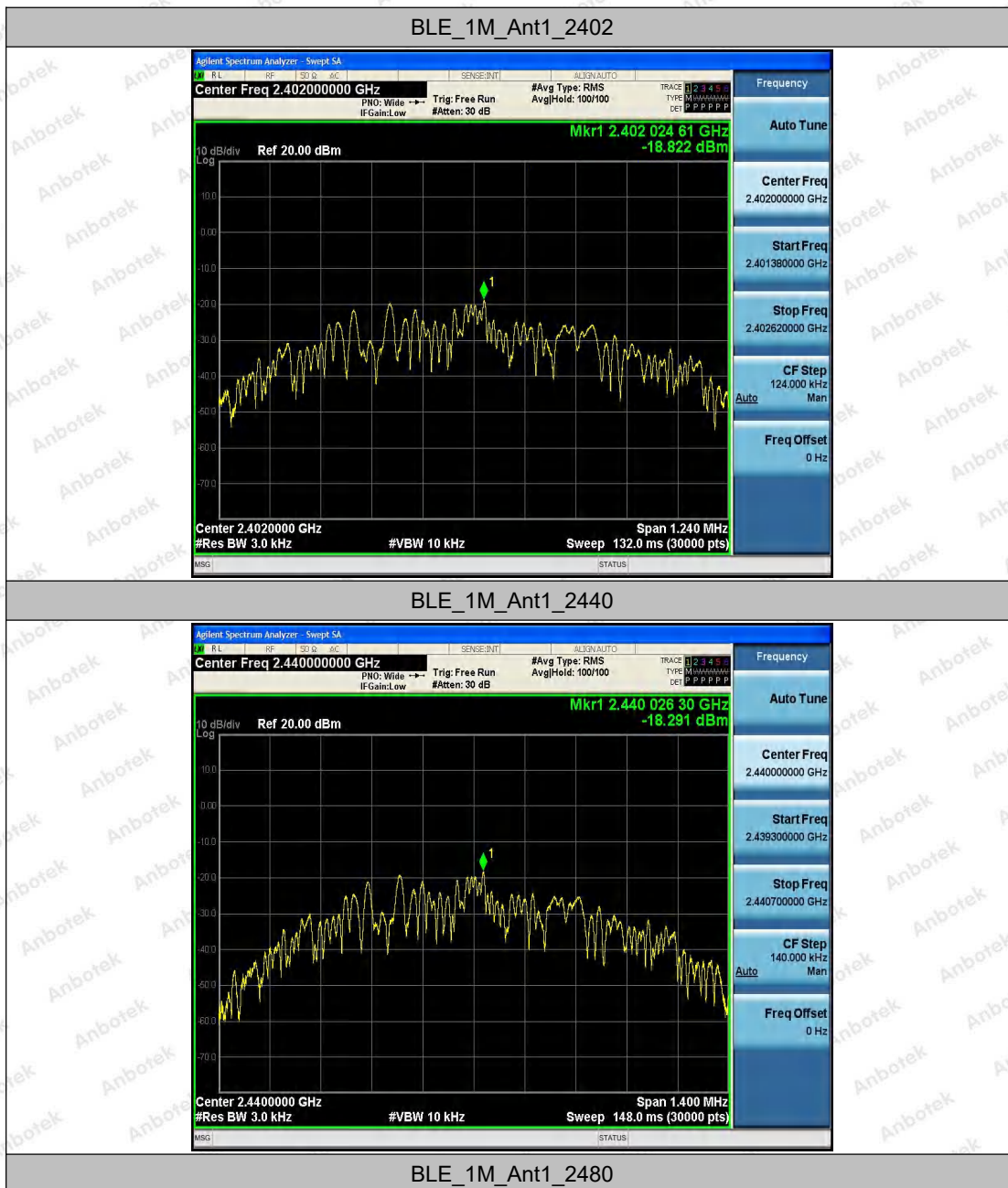
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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.82	≤8	PASS
		2440	-18.29	≤8	PASS
		2480	-18.41	≤8	PASS
BLE_2M	Ant1	2402	-16.15	≤8	PASS
		2440	-16.28	≤8	PASS
		2480	-16.02	≤8	PASS

Test Graphs

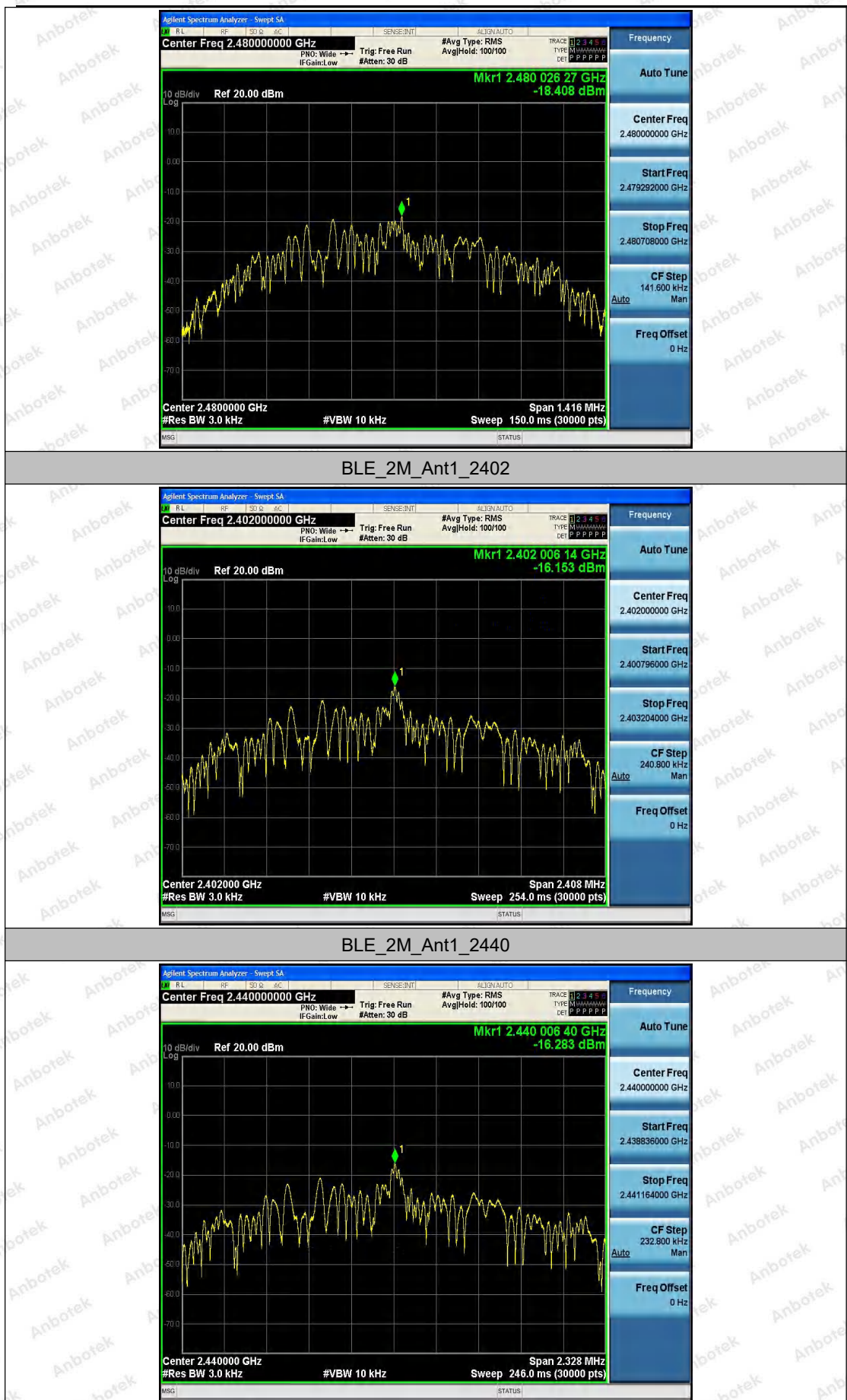


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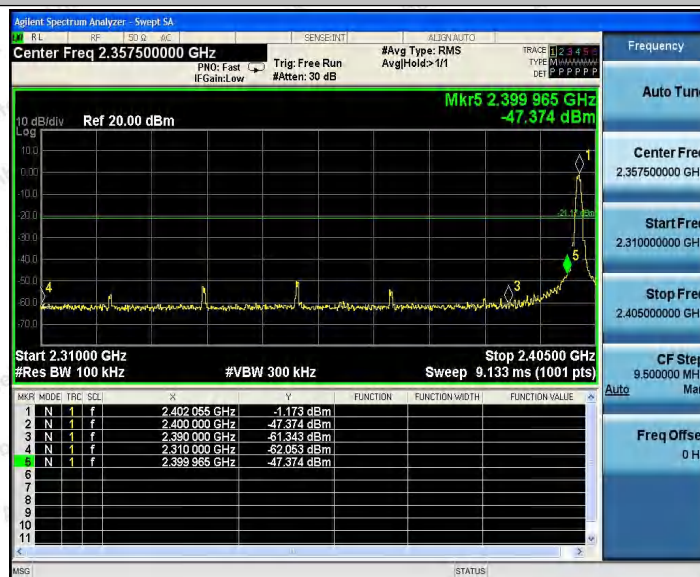
Appendix E: Band edge measurements

Test Result

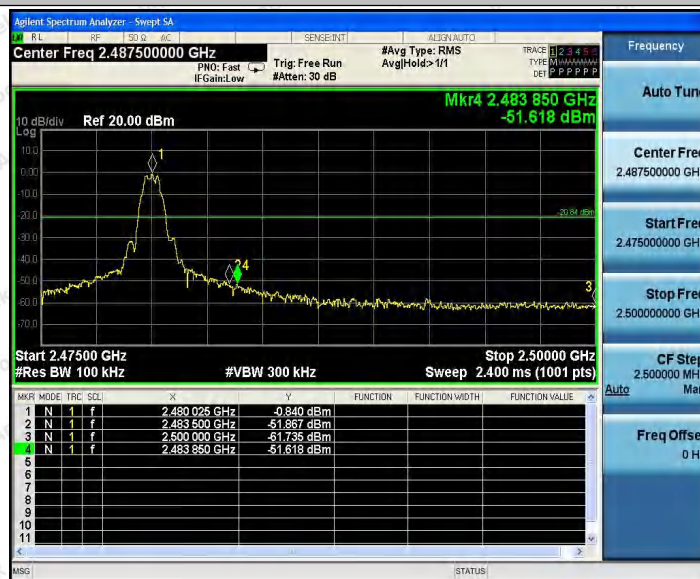
Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.17	-47.37	≤ -21.17	PASS
		High	2480	-0.84	-52.27	≤ -20.84	PASS
BLE_2M	Ant1	Low	2402	3.42	-28.66	≤ -16.58	PASS
		High	2480	3.64	-47	≤ -16.36	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

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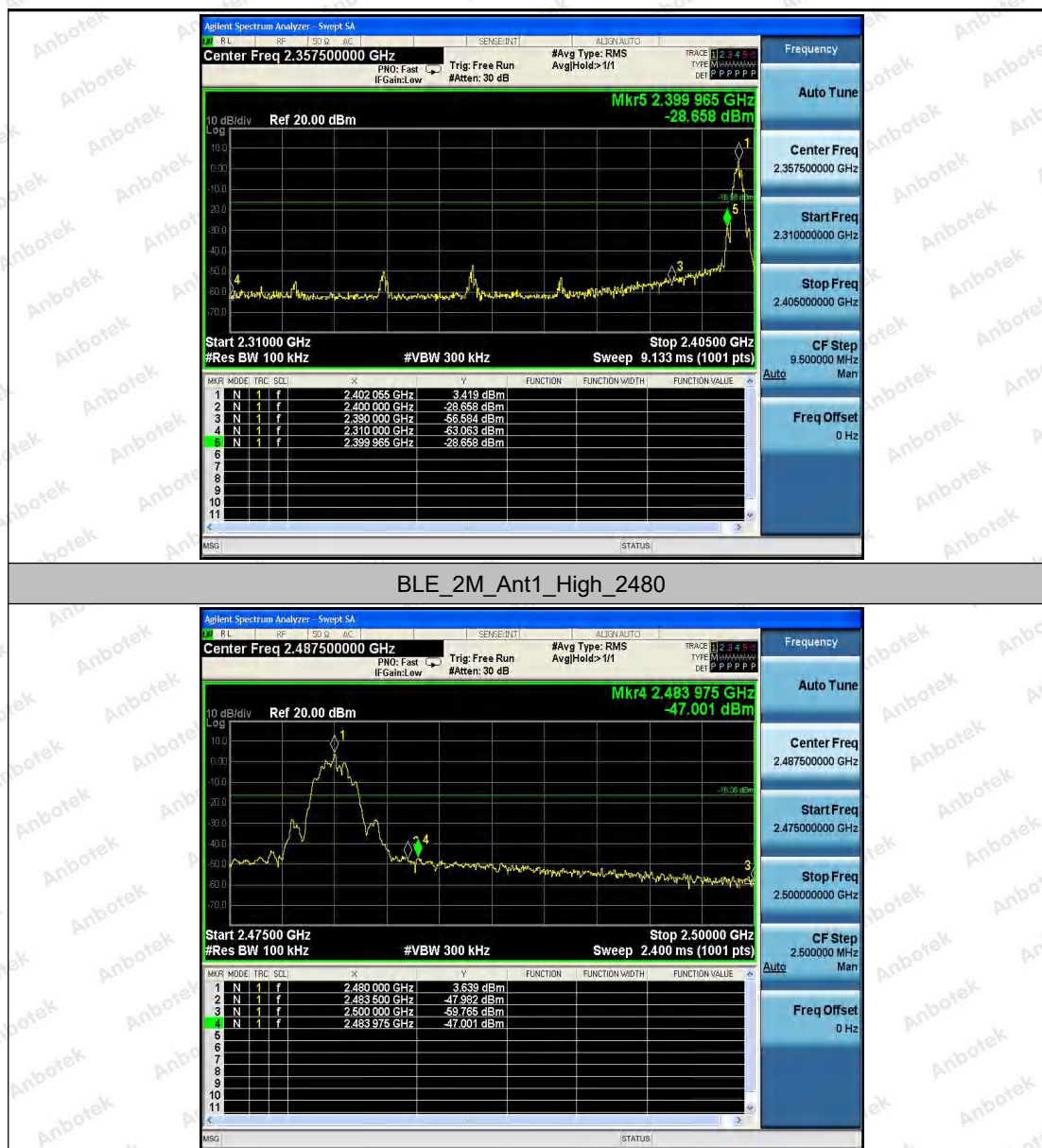
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Appendix F: Conducted Spurious Emission

Test Result

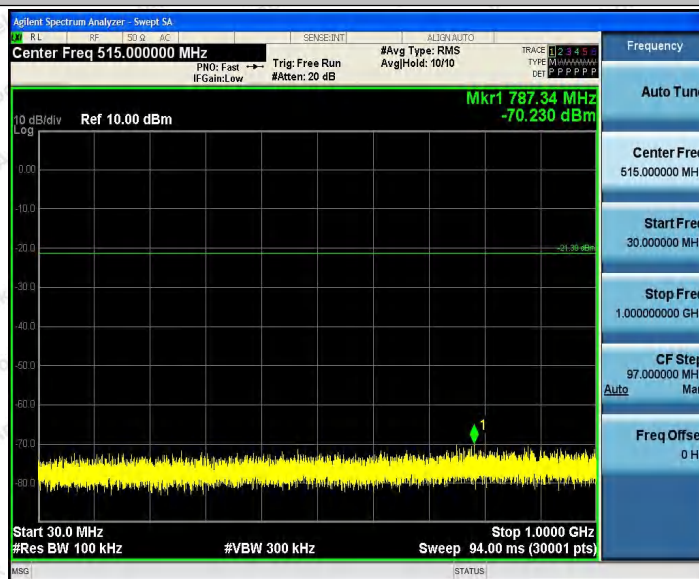
Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.39	-1.39	---	PASS
			30~1000	-1.39	-70.23	≤ -21.39	PASS
			1000~26500	-1.39	-45.34	≤ -21.39	PASS
		2440	Reference	-0.93	-0.93	---	PASS
			30~1000	-0.93	-70.71	≤ -20.93	PASS
			1000~26500	-0.93	-47.59	≤ -20.93	PASS
		2480	Reference	-2.01	-2.01	---	PASS
			30~1000	-2.01	-69.36	≤ -22.01	PASS
			1000~26500	-2.01	-45.61	≤ -22.01	PASS
BLE_2M	Ant1	2402	Reference	3.12	3.12	---	PASS
			30~1000	3.12	-70.33	≤ -16.88	PASS
			1000~26500	3.12	-43.51	≤ -16.88	PASS
		2440	Reference	3.10	3.10	---	PASS
			30~1000	3.10	-70.31	≤ -16.9	PASS
			1000~26500	3.10	-46.37	≤ -16.9	PASS
		2480	Reference	3.43	3.43	---	PASS
			30~1000	3.43	-65.28	≤ -16.57	PASS
			1000~26500	3.43	-42.81	≤ -16.57	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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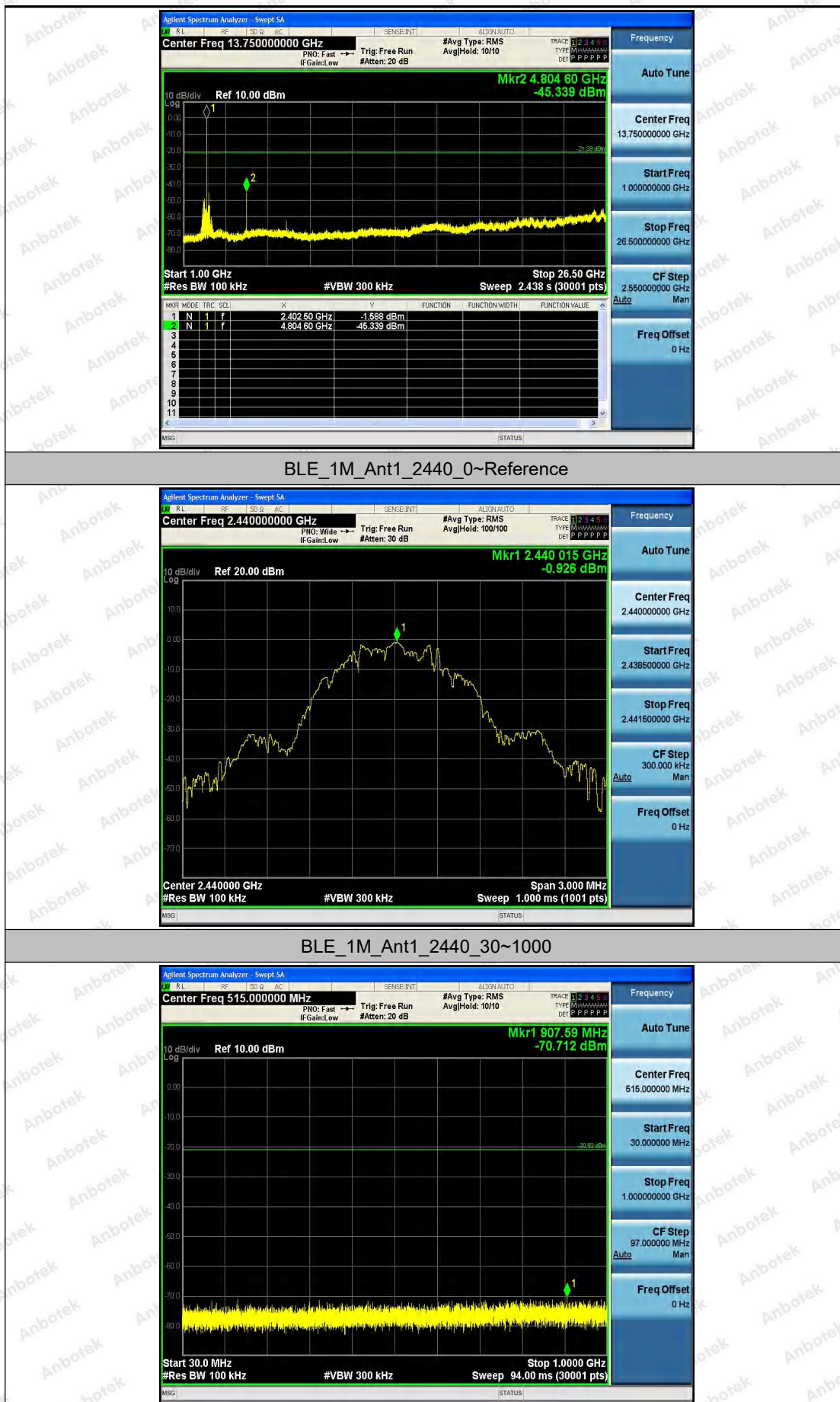
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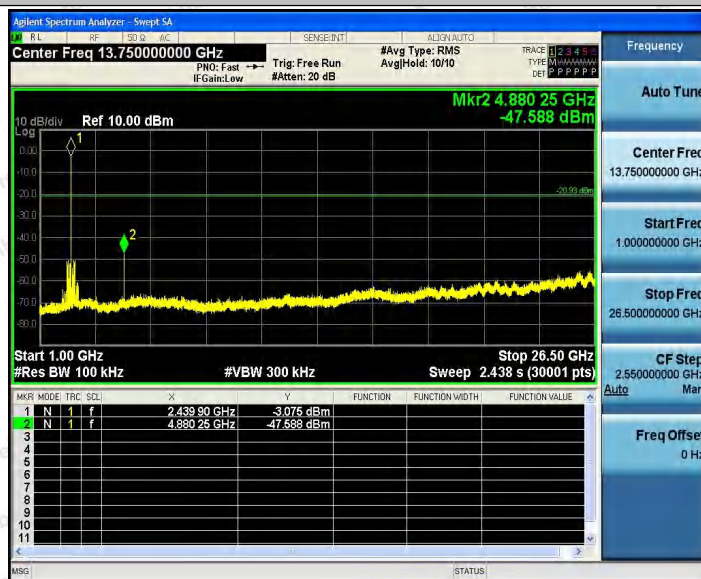
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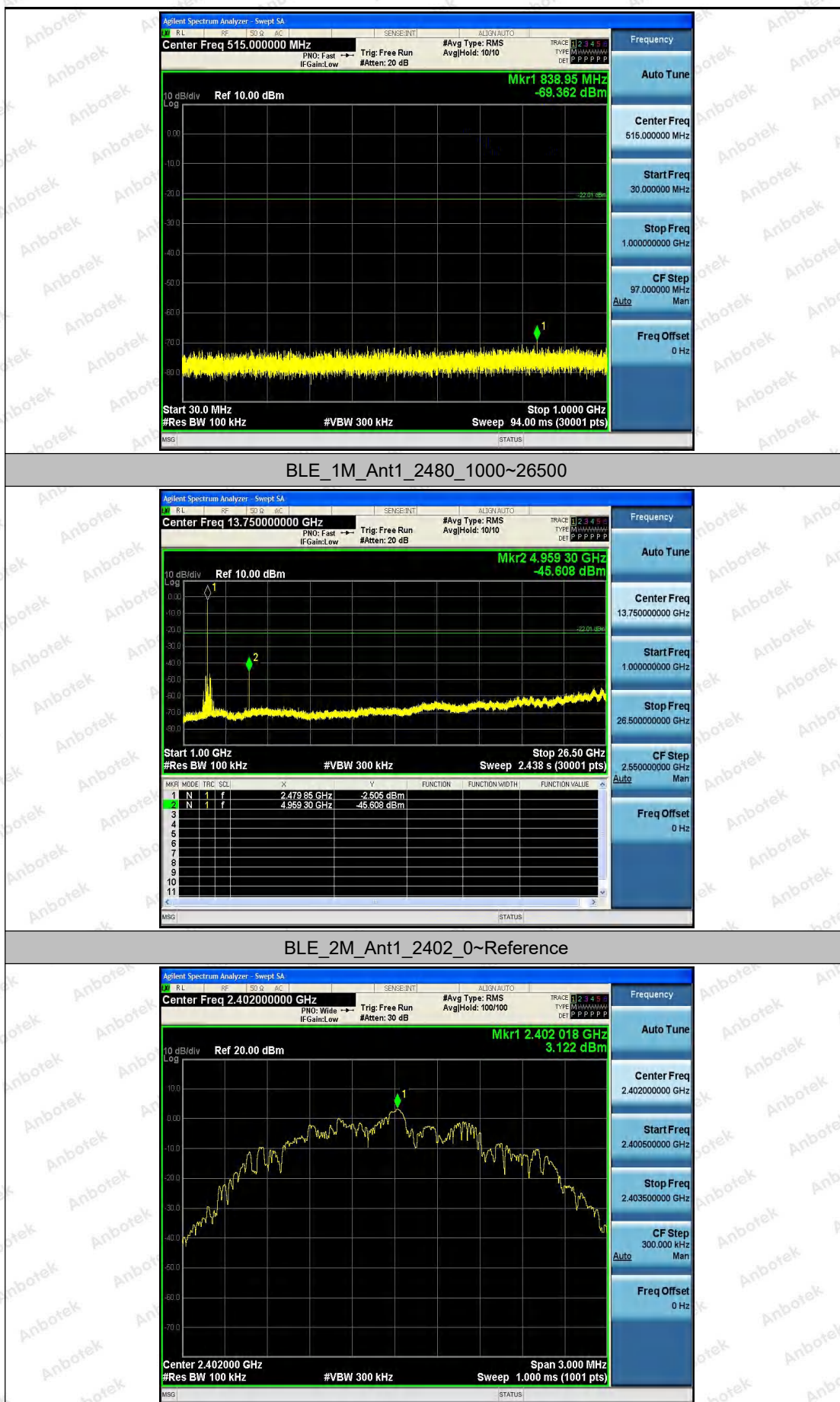
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



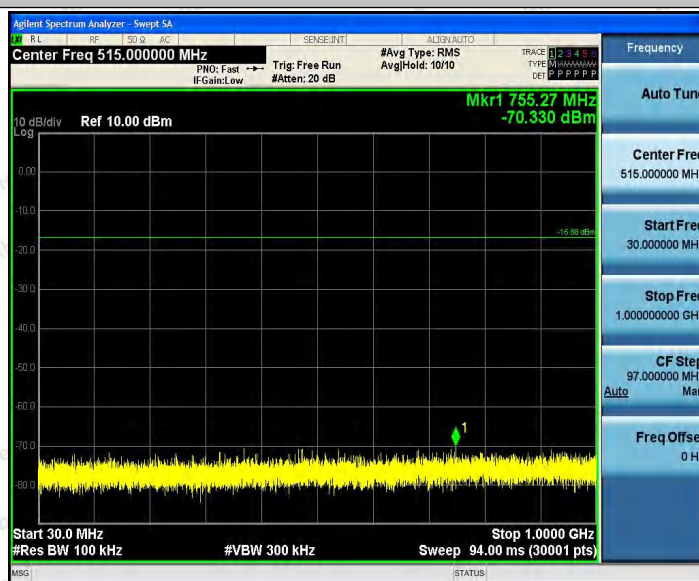
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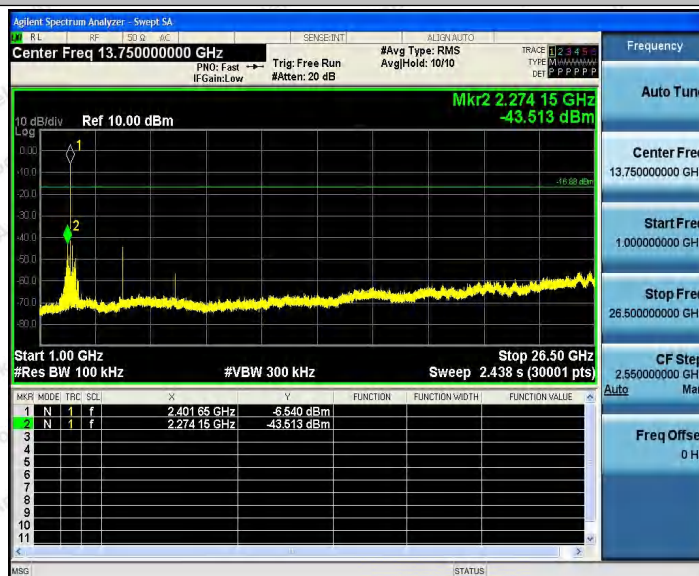
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BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



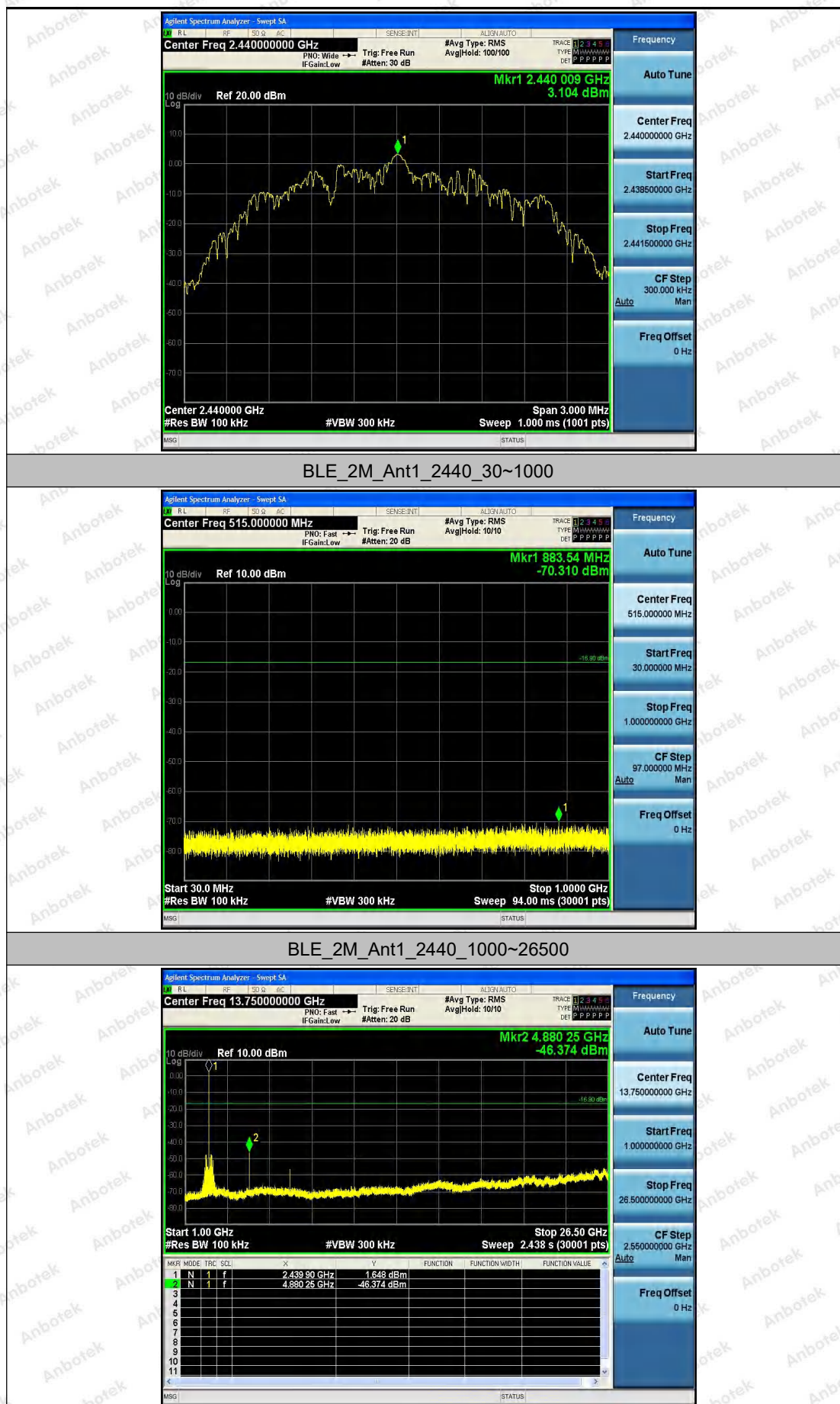
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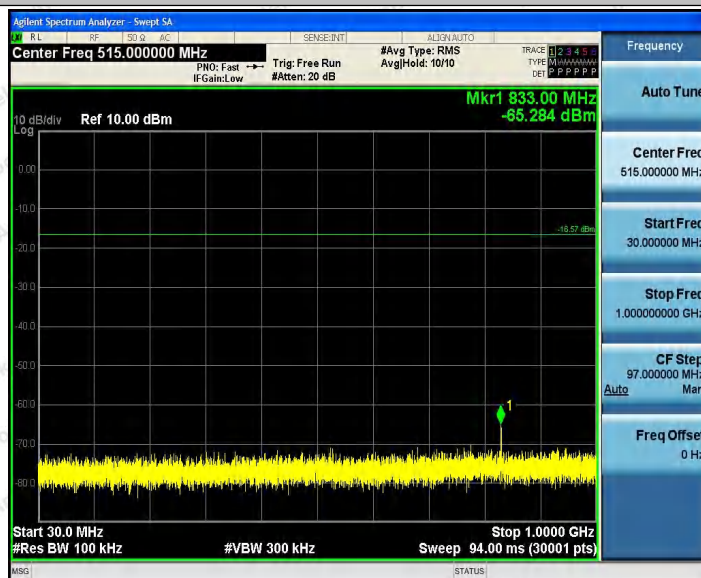
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



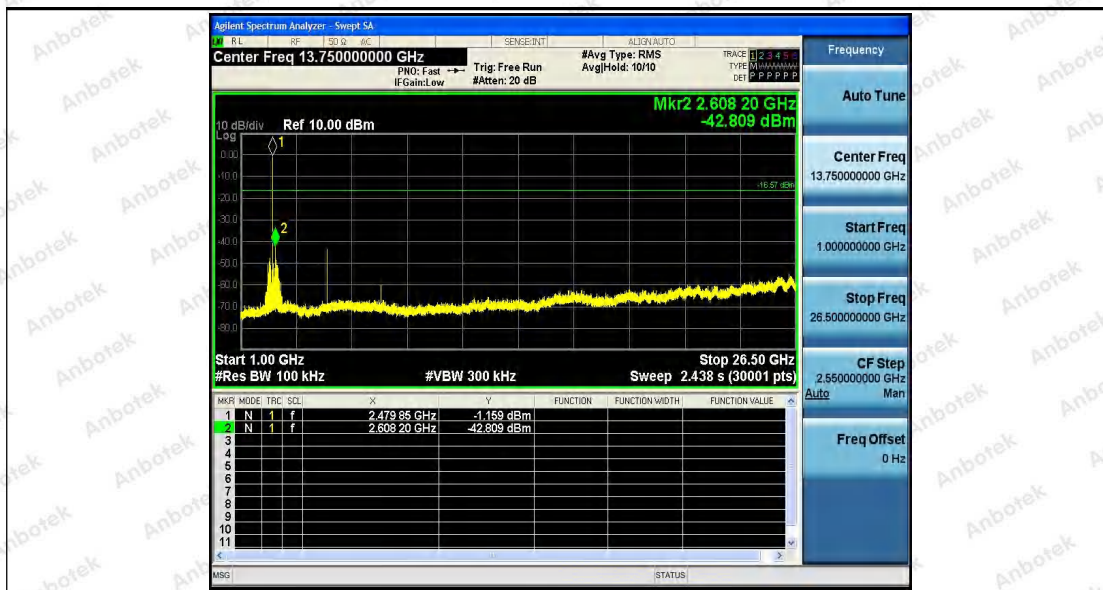
BLE_2M_Ant1_2480_1000~26500

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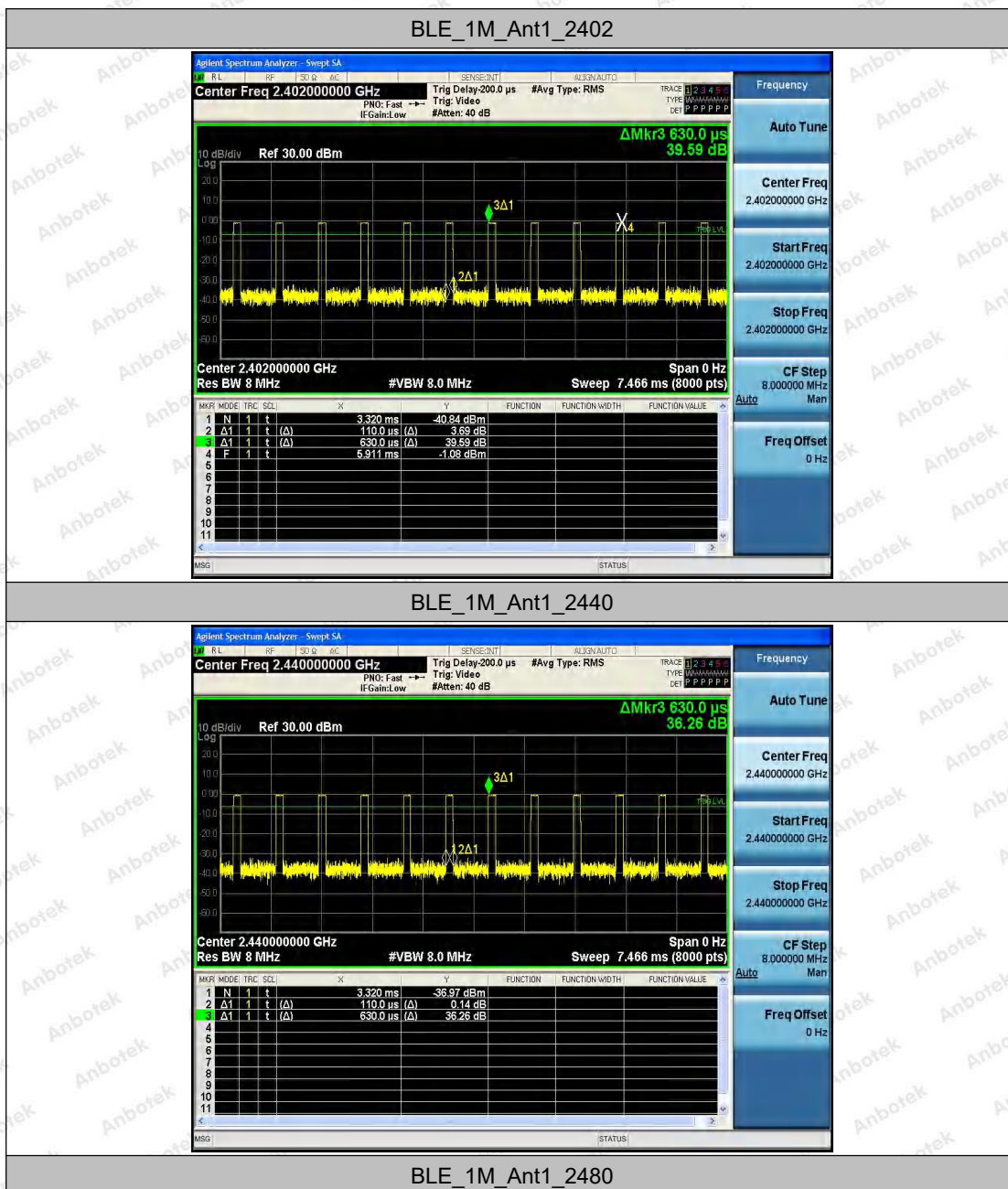
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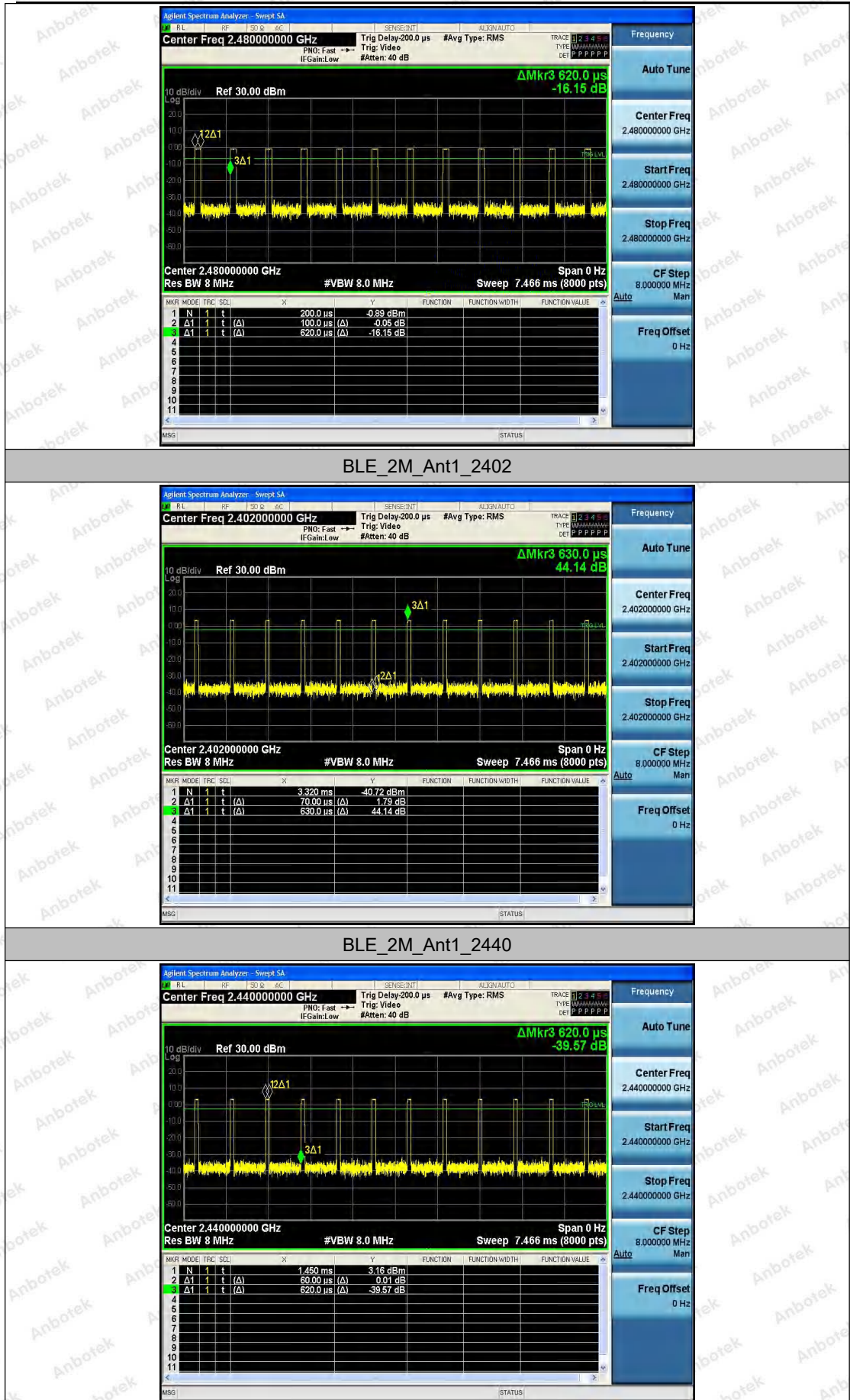
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
BLE_1M	Ant1	2402	0.11	0.63	0.1746	17.46	7.58	---	PASS
		2440	0.11	0.63	0.1746	17.46	7.58	---	PASS
		2480	0.10	0.62	0.1613	16.13	7.92	---	PASS
BLE_2M	Ant1	2402	0.07	0.63	0.1111	11.11	9.54	---	PASS
		2440	0.06	0.62	0.0968	9.68	10.14	---	PASS
		2480	0.06	0.62	0.0968	9.68	10.14	---	PASS

Test Graphs



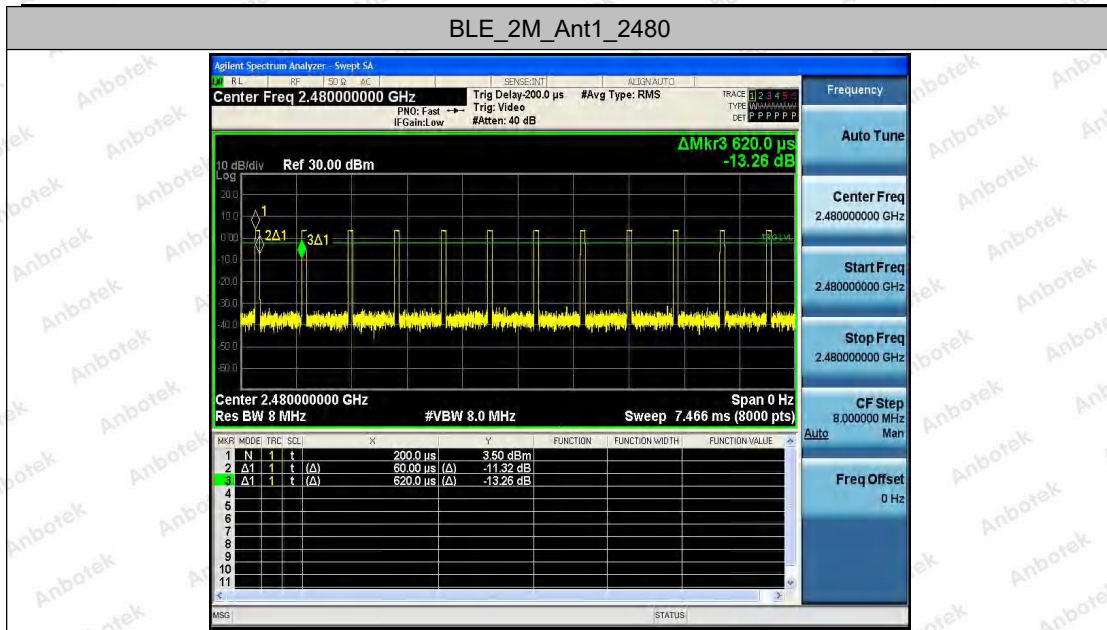


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