

Appendix Test Data

Report No.:	18220WC20066901	Test Sample No.:	1-2-2
Start Test Date:	2022.4.1	Finish Test Date:	2022.4.7
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	55.7 %
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	0.692	2401.664	2402.356	≥0.5	PASS
		2440	0.692	2439.660	2440.352	≥0.5	PASS
		2480	0.700	2479.656	2480.356	≥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	1.0552	2401.483	2402.539	---	PASS
		2440	1.0582	2439.482	2440.540	---	PASS
		2480	1.0628	2479.487	2480.550	---	PASS

Test Graphs



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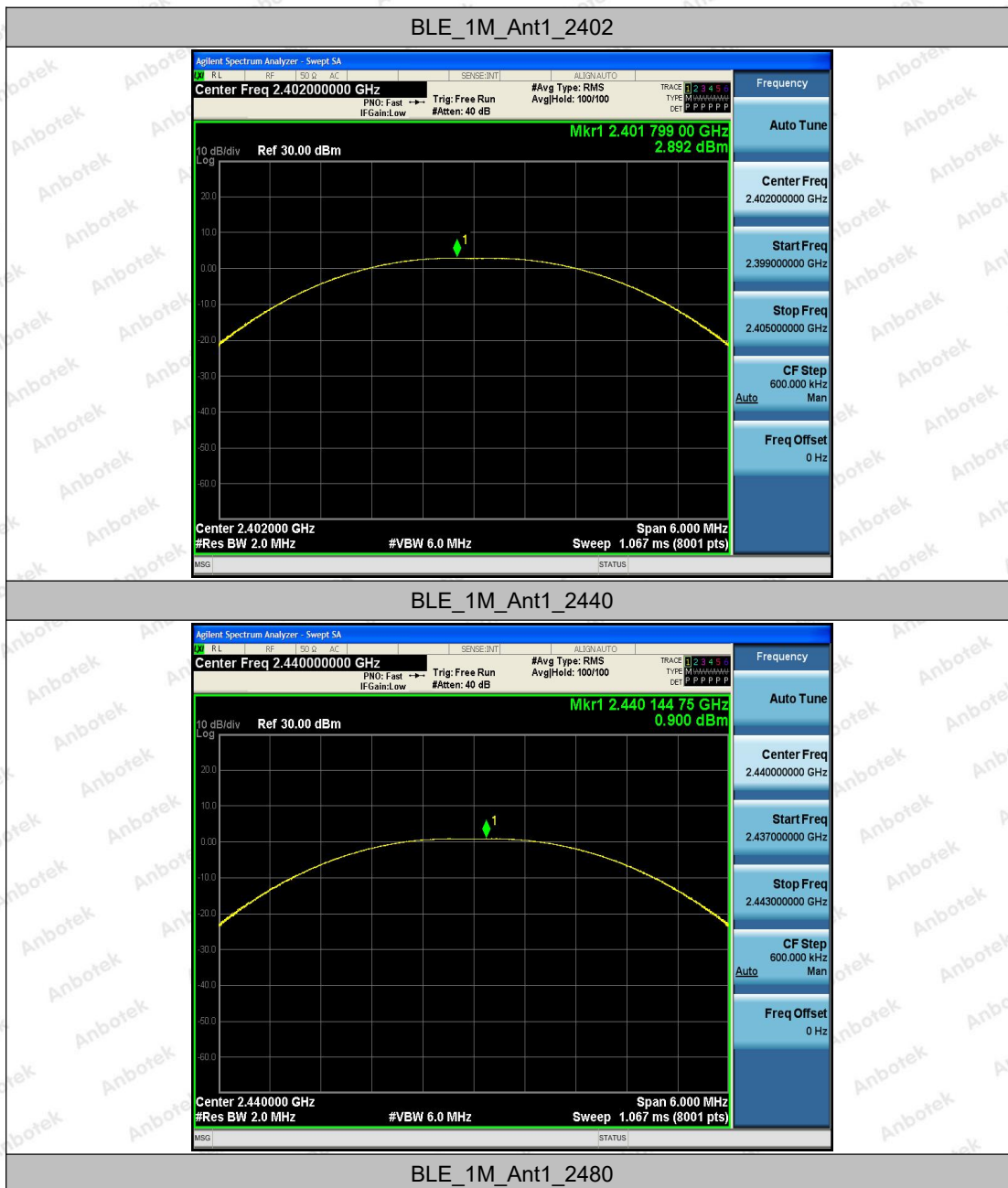
Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.89	≤28.45	PASS
		2440	0.9	≤28.45	PASS
		2480	1.56	≤28.45	PASS

Note: Limit[dBm]=30dBm-(7.55dBi-6dB)=28.45dBm

Test Graphs

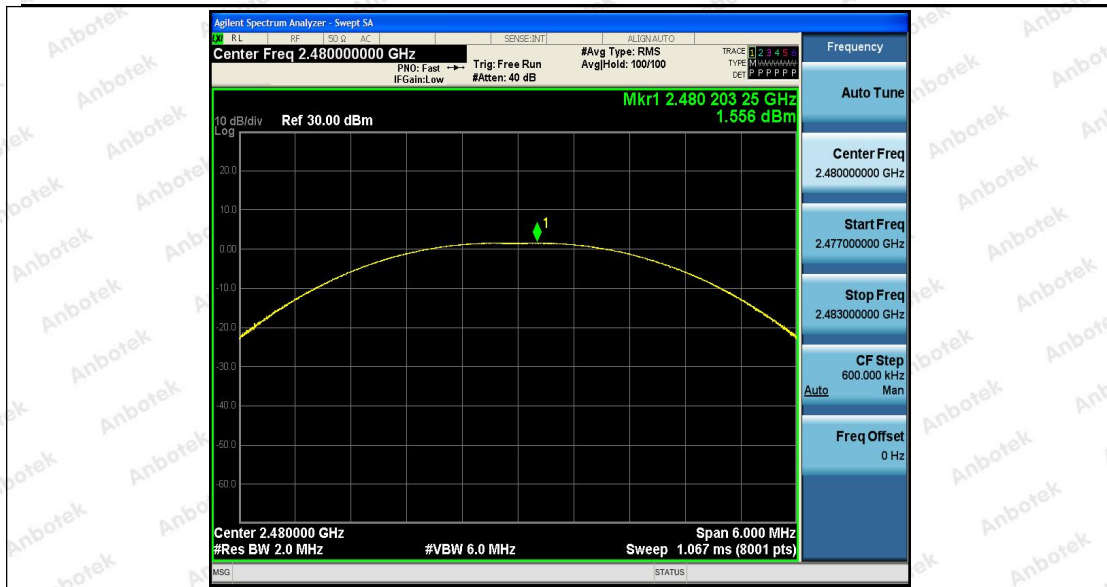


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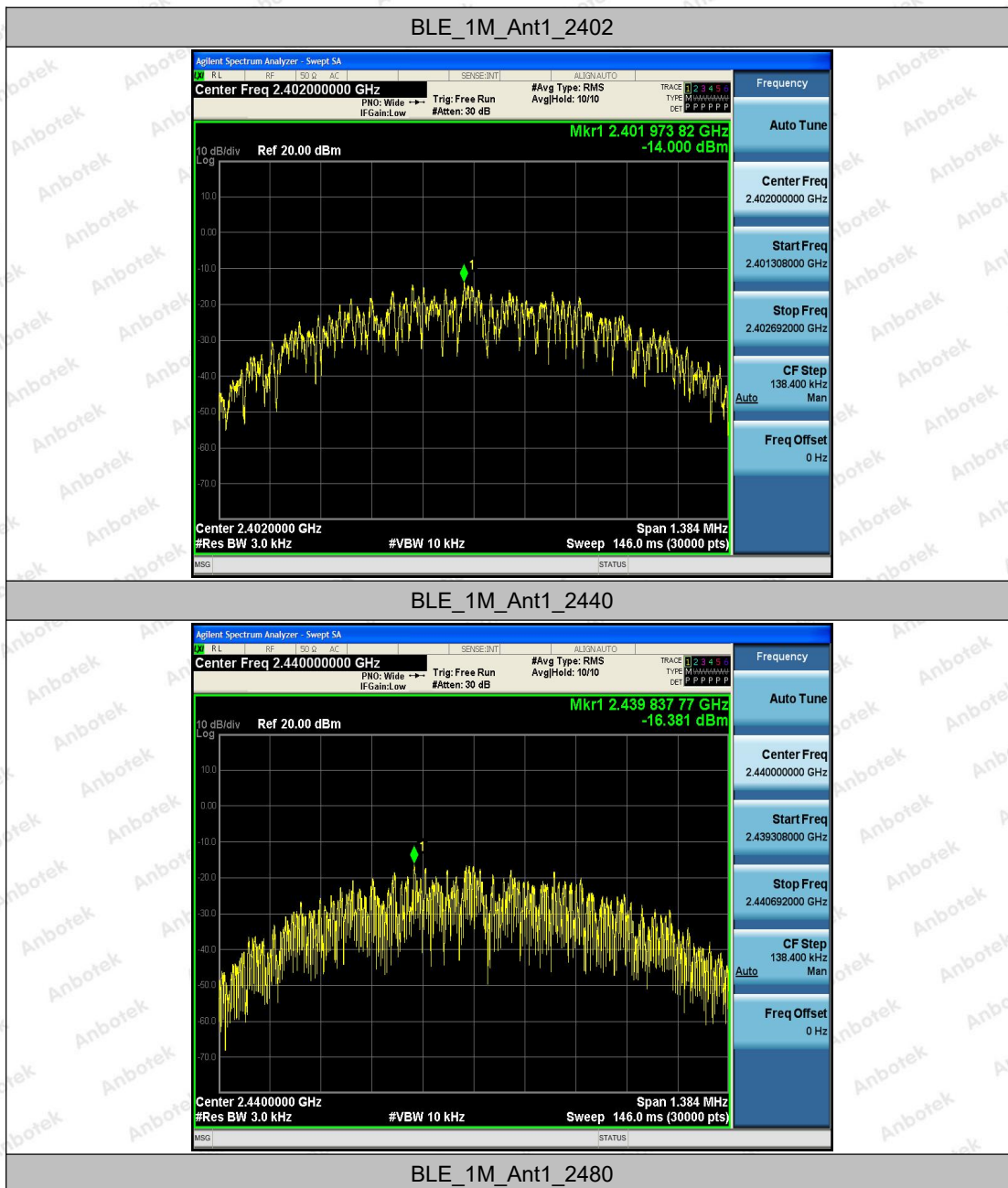
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.00	≤6.45	PASS
		2440	-16.38	≤6.45	PASS
		2480	-15.24	≤6.45	PASS

Note: Limit[dBm/3KHz]=8[dBm/3KHz]-(Gain7.55dBi-6dB)=8-1.55=6.45[dBm/3KHz]

Test Graphs

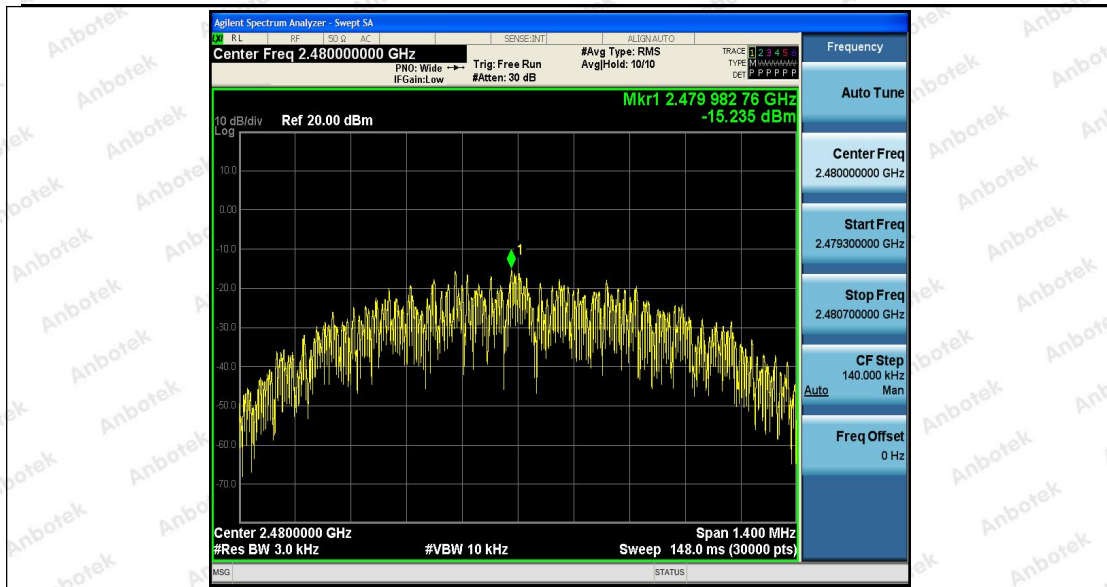


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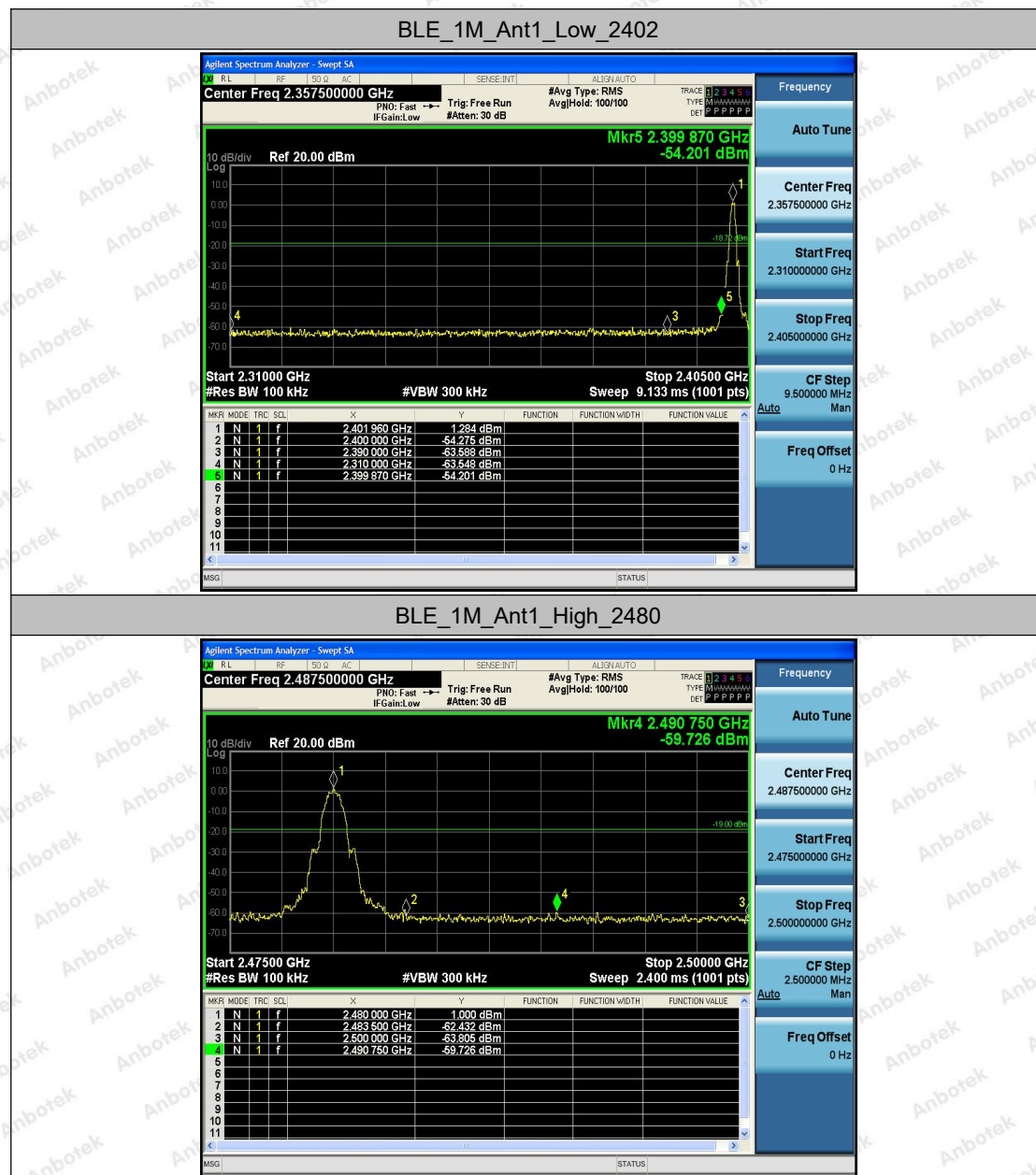
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.28	-54.2	≤-18.72	PASS
		High	2480	1.00	-59.73	≤-19	PASS

Test Graphs



Appendix F: Conducted Spurious Emission

Test Result

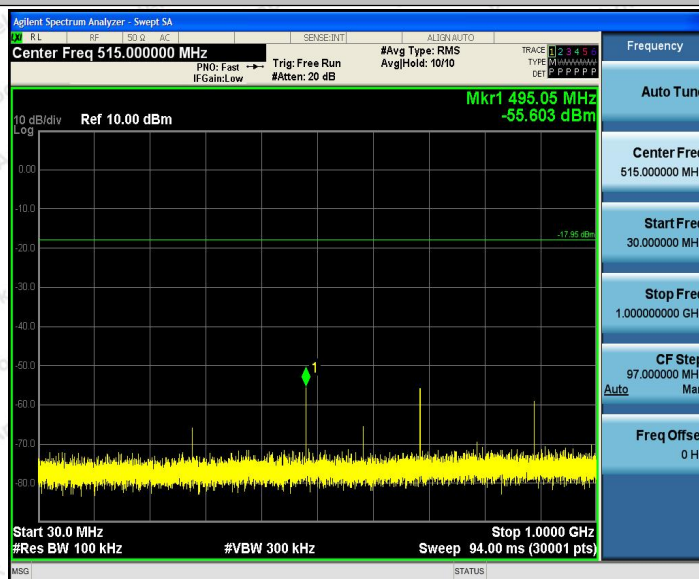
Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.05	2.05	---	PASS
			30~1000	2.05	-55.6	≤ -17.95	PASS
			1000~26500	2.05	-54.71	≤ -17.95	PASS
		2440	Reference	0.21	0.21	---	PASS
			30~1000	0.21	-55.62	≤ -19.79	PASS
			1000~26500	0.21	-55.29	≤ -19.79	PASS
		2480	Reference	0.87	0.87	---	PASS
			30~1000	0.87	-55.92	≤ -19.13	PASS
			1000~26500	0.87	-54.63	≤ -19.13	PASS

Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



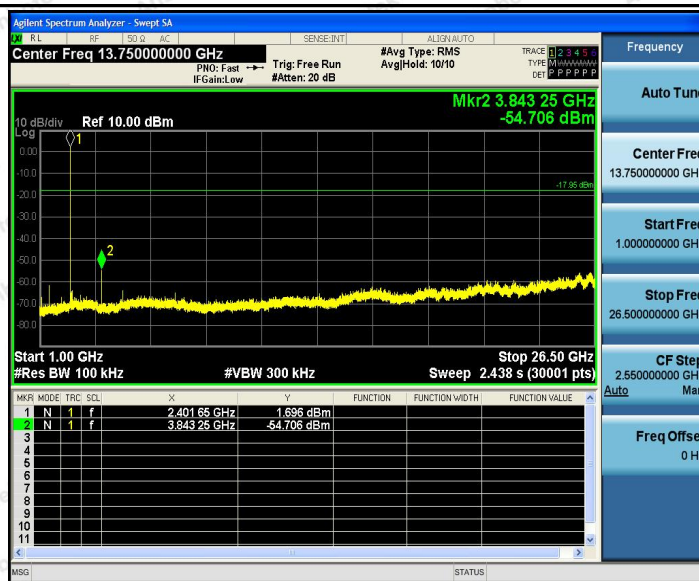
BLE_1M_Ant1_2402_1000~26500

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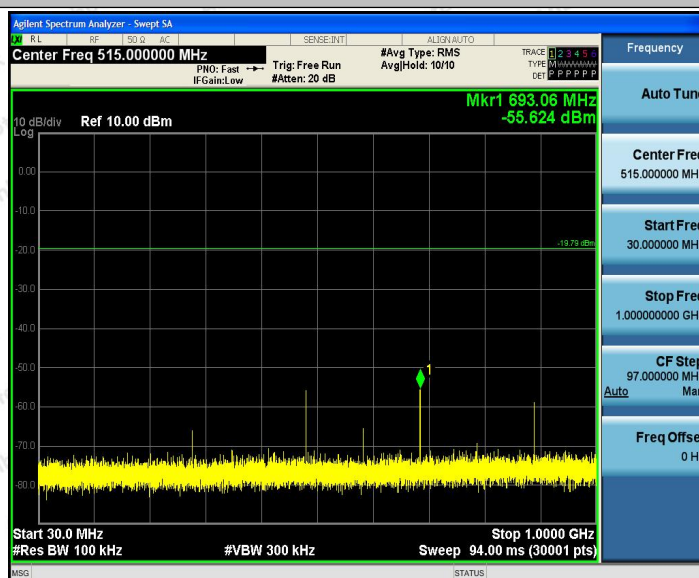
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



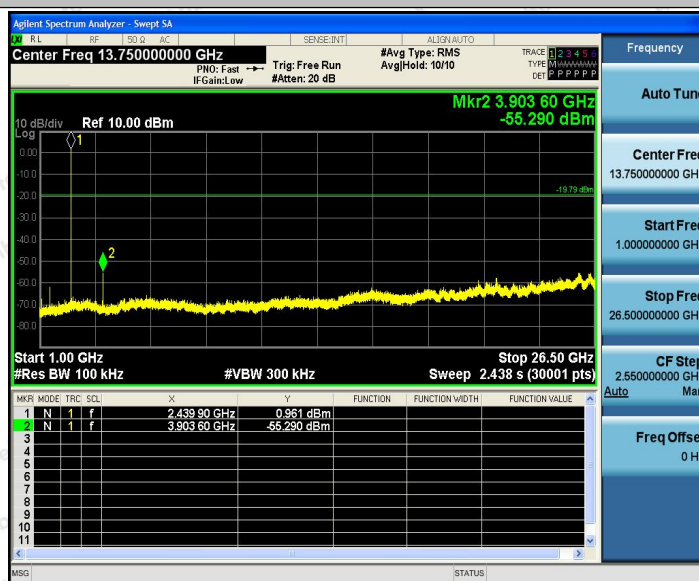
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



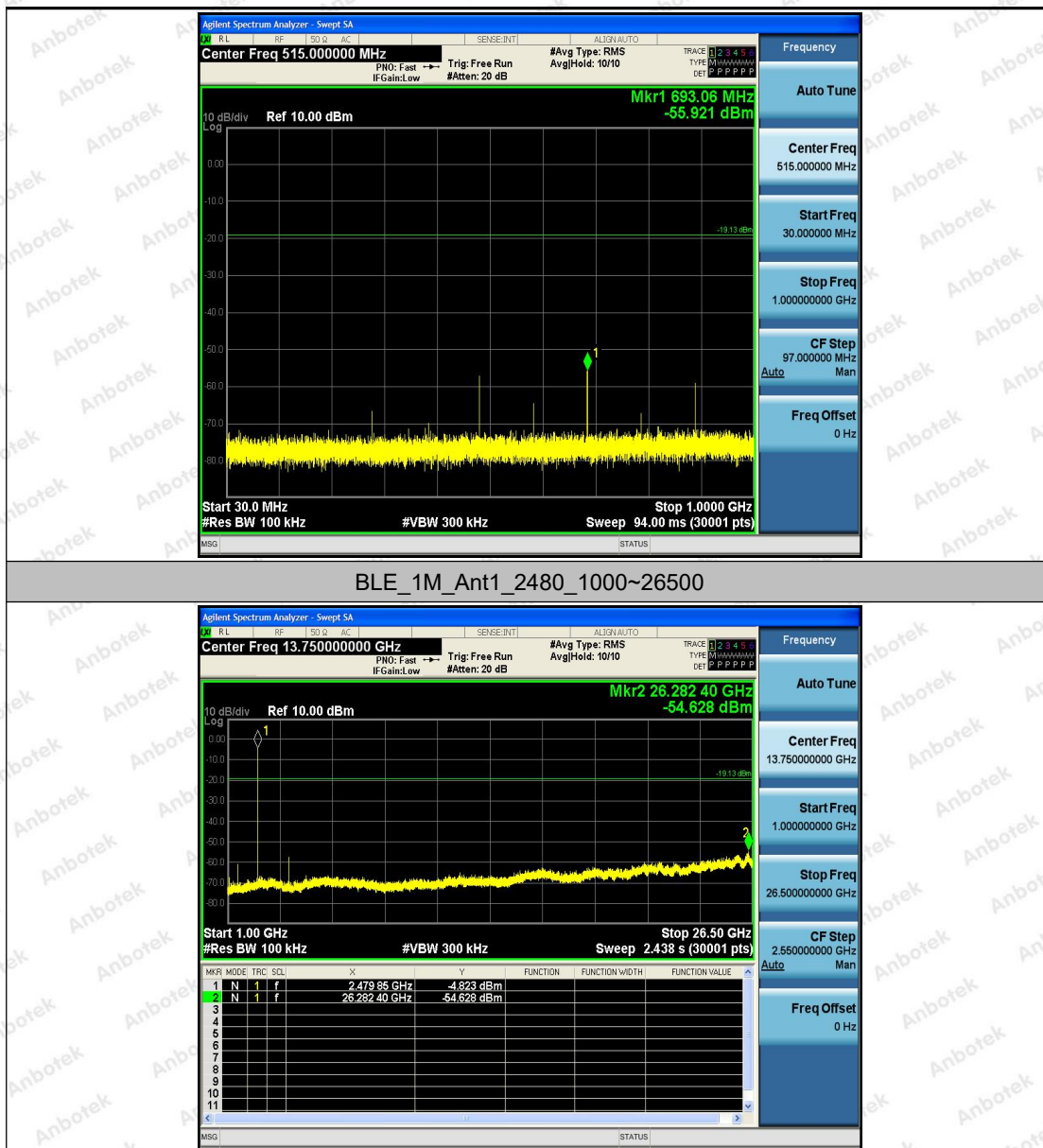
BLE_1M_Ant1_2480_30~1000

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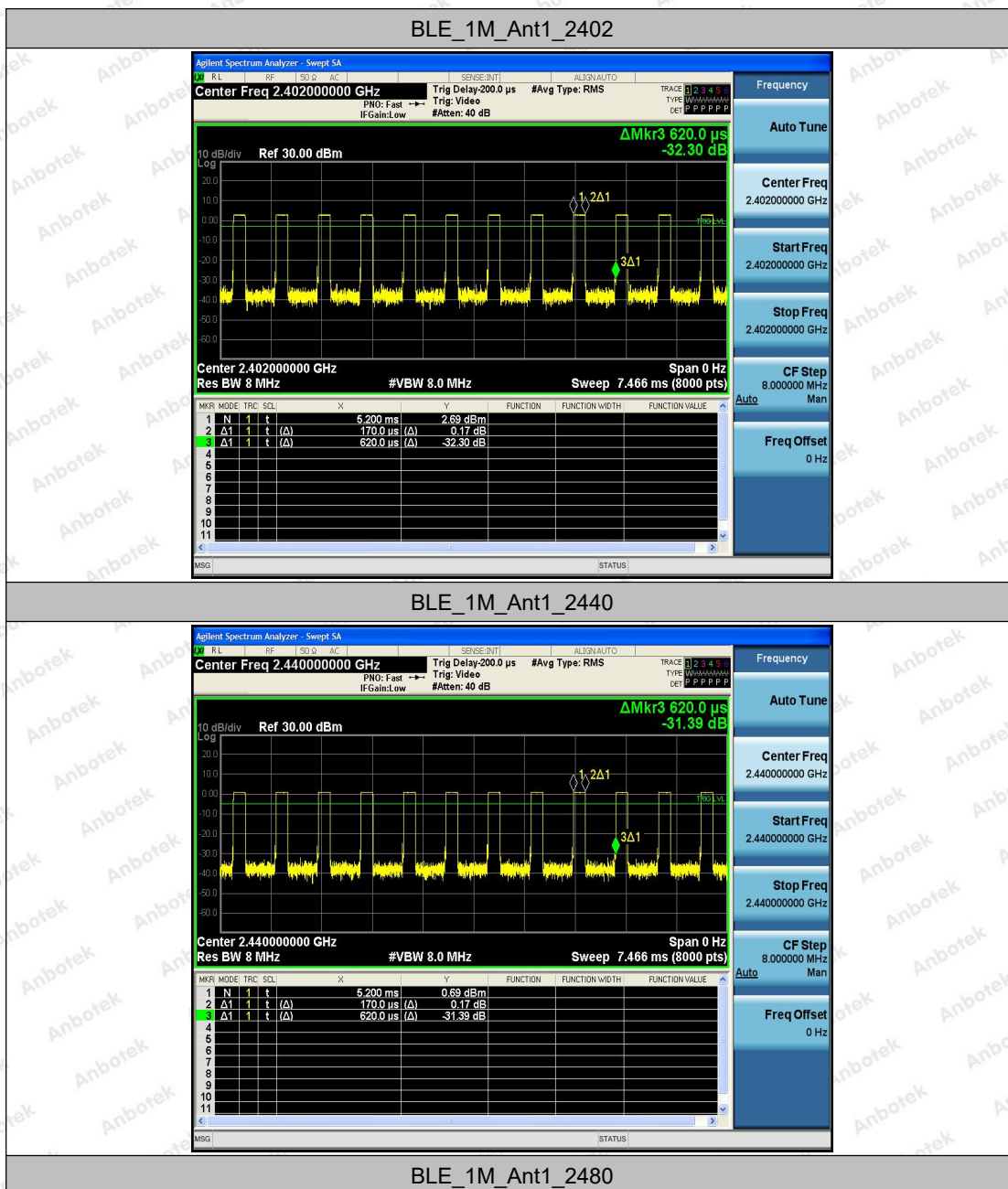
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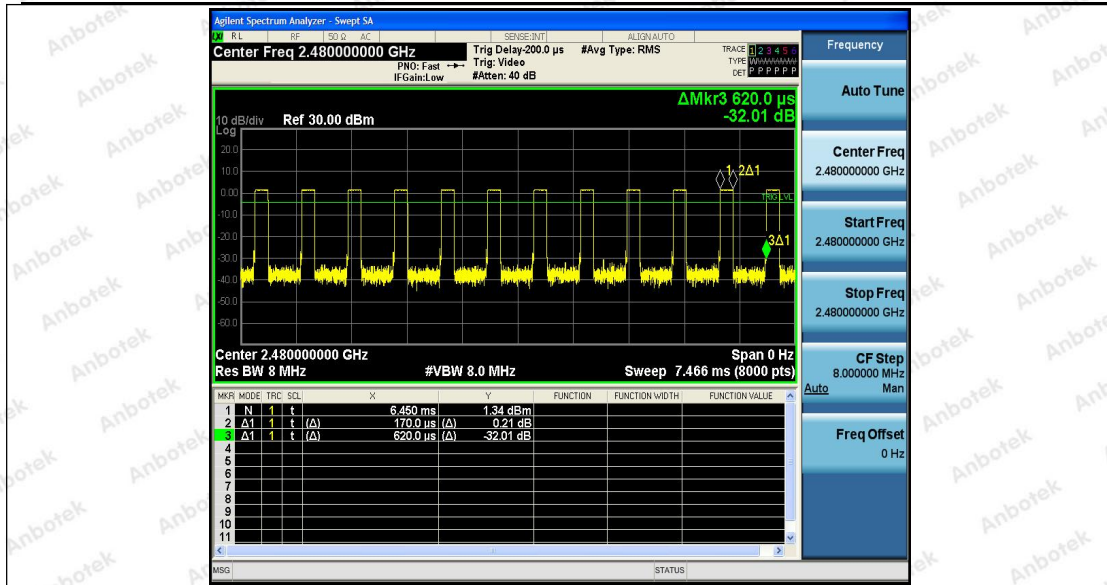
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
BLE_1M	Ant1	2402	0.17	0.62	0.2742	27.42	5.62	---	PASS
		2440	0.17	0.62	0.2742	27.42	5.62	---	PASS
		2480	0.17	0.62	0.2742	27.42	5.62	---	PASS

Test Graphs





---End---