

Appendix Test Data

Report No.:	18220WC20161502	Test Sample No.:	1-2-2
Start Test Date:	2022.7.18	Finish Test Date:	2022.8.9
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	22.5℃	Relative Humidity:	51.7 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.516	2401.712	2402.228	≥0.5	PASS
		2440	0.504	2439.720	2440.224	≥0.5	PASS
		2480	0.544	2479.708	2480.252	≥0.5	PASS
BLE_2M	Ant1	2402	0.668	2401.480	2402.148	≥0.5	PASS
		2440	0.820	2439.460	2440.280	≥0.5	PASS
		2480	0.672	2479.464	2480.136	≥0.5	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0284	2401.549	2402.578	---	PASS
		2440	1.0295	2439.548	2440.578	---	PASS
		2480	1.0319	2479.550	2480.582	---	PASS
BLE_2M	Ant1	2402	2.0385	2401.047	2403.086	---	PASS
		2440	2.0367	2439.047	2441.083	---	PASS
		2480	2.0432	2479.048	2481.091	---	PASS

Test Graphs



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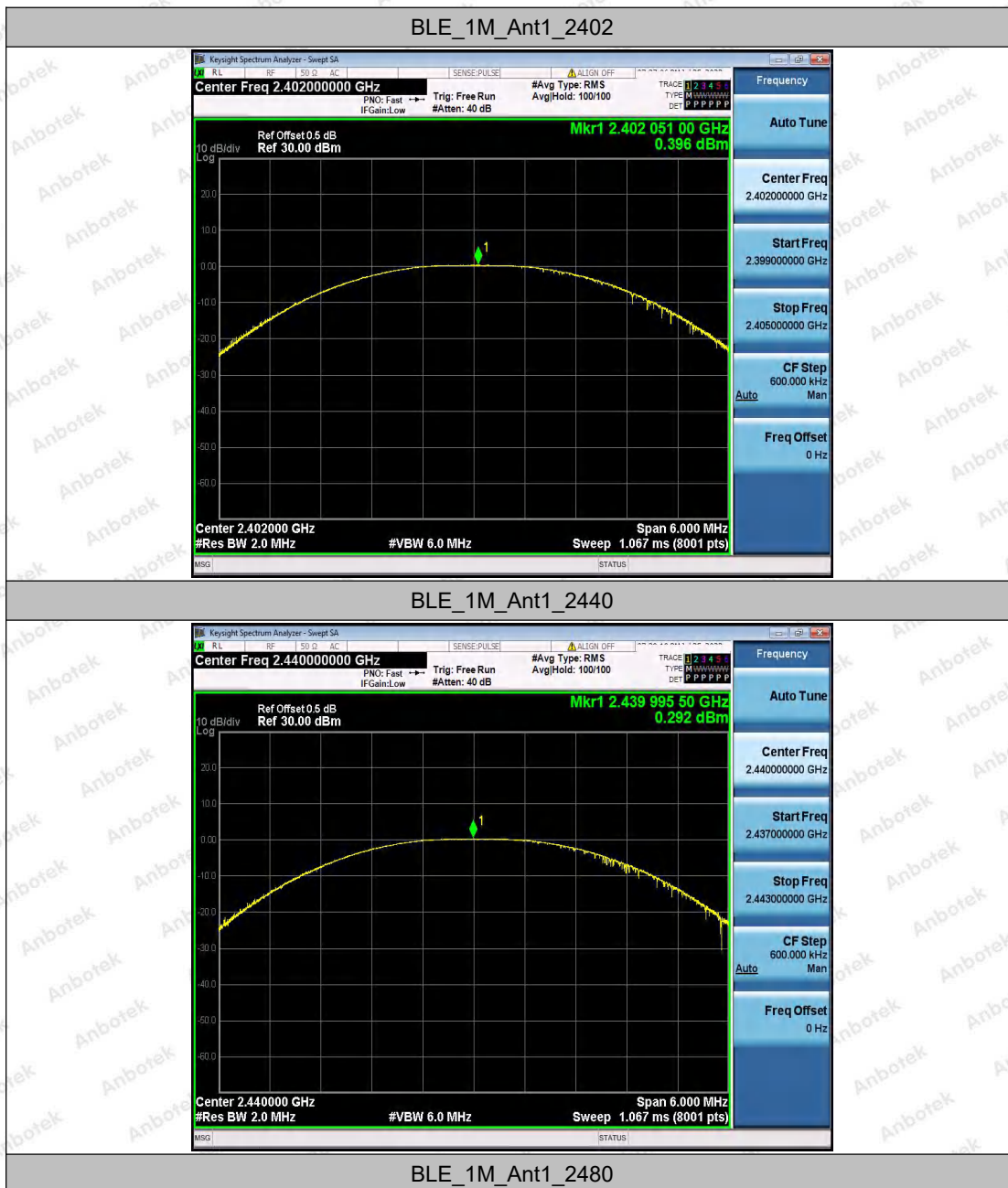
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.4	≤30	PASS
		2440	0.29	≤30	PASS
		2480	-0.53	≤30	PASS
BLE_2M	Ant1	2402	0.44	≤30	PASS
		2440	0.31	≤30	PASS
		2480	-0.47	≤30	PASS

Test Graphs



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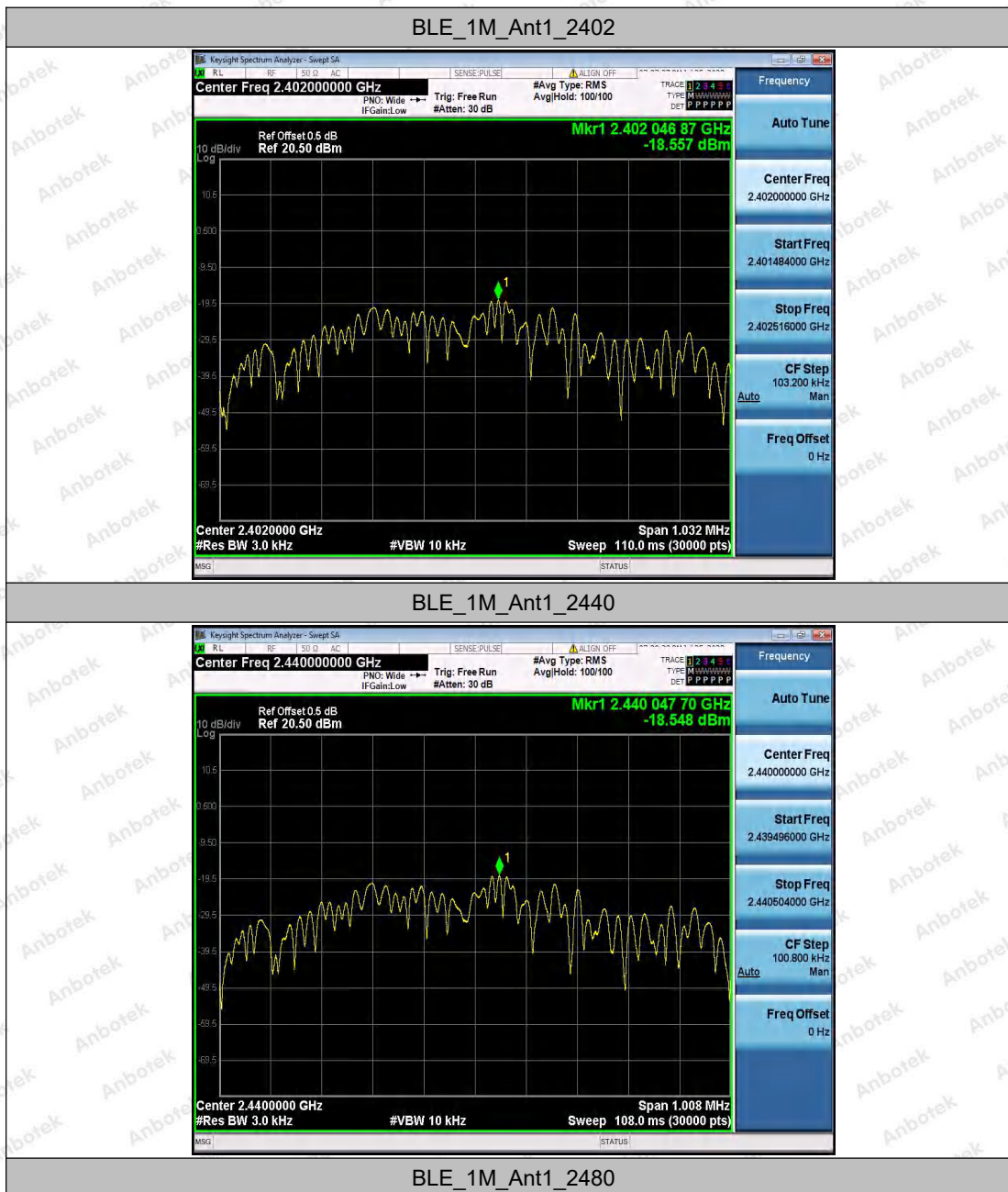
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.56	≤8	PASS
		2440	-18.55	≤8	PASS
		2480	-19.14	≤8	PASS
BLE_2M	Ant1	2402	-20.43	≤8	PASS
		2440	-20.57	≤8	PASS
		2480	-21.22	≤8	PASS

Test Graphs



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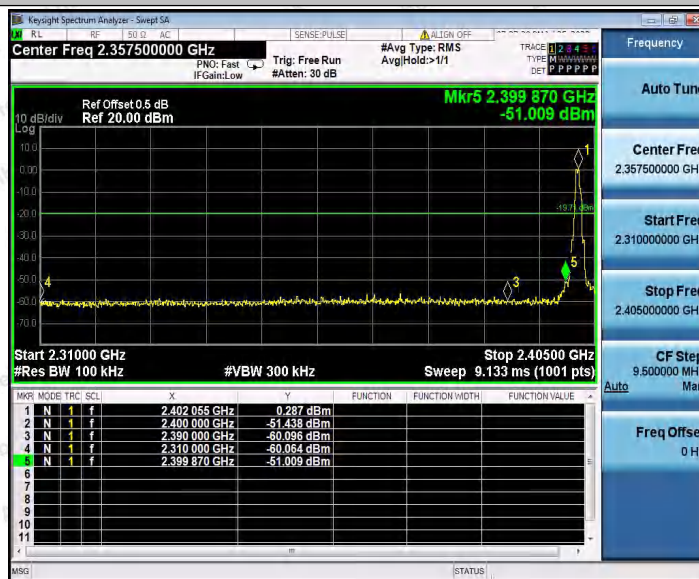
Appendix E: Band edge measurements

Test Result

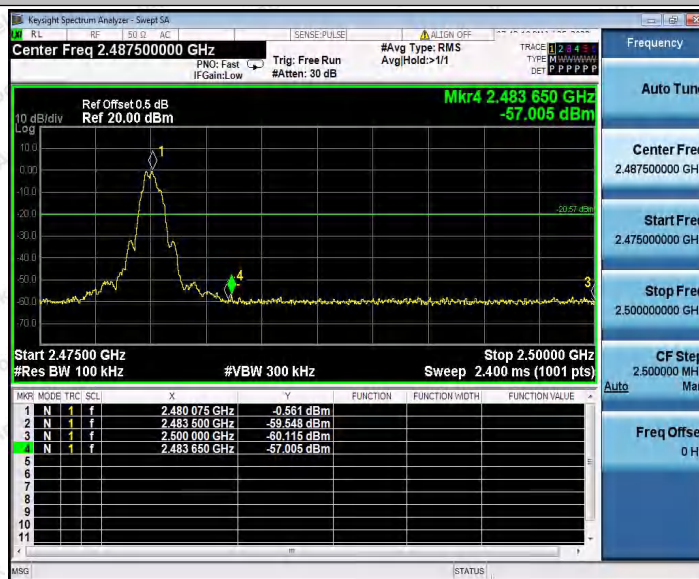
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.29	-51.01	≤-19.71	PASS
		High	2480	-0.57	-57.01	≤-20.57	PASS
BLE_2M	Ant1	Low	2402	0.26	-33.81	≤-19.74	PASS
		High	2480	-0.62	-49.36	≤-20.62	PASS

Test Graphs

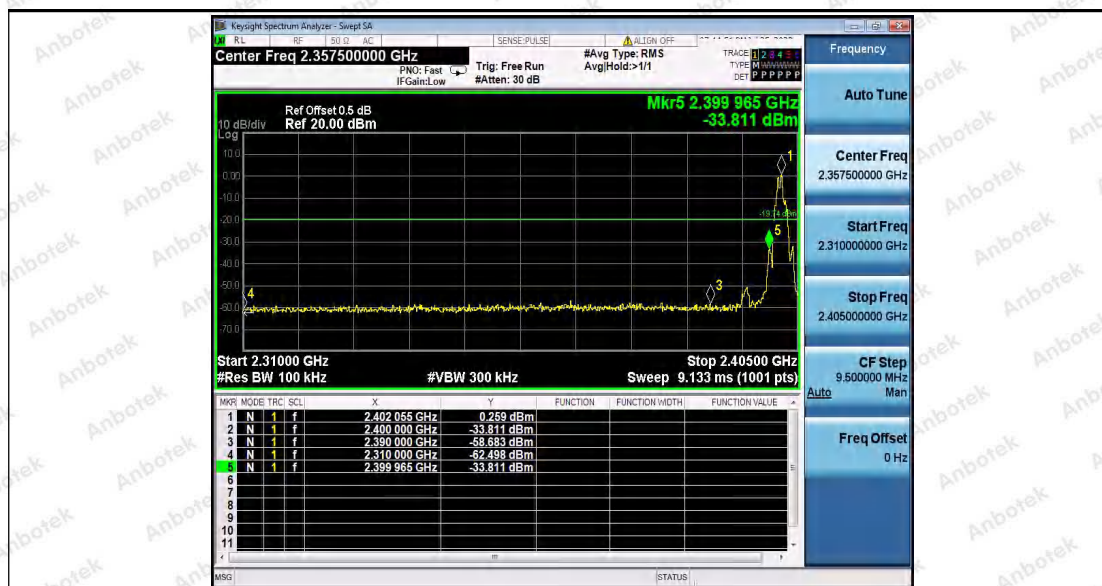
BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402



BLE_2M_Ant1_High_2480



Appendix F: Conducted Spurious Emission

Test Result

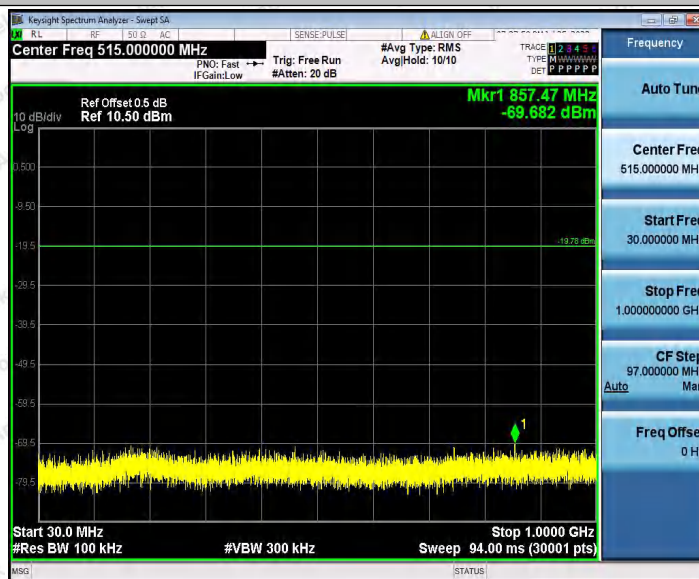
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.22	0.22	---	PASS
			30~1000	0.22	-69.68	≤ -19.78	PASS
			1000~26500	0.22	-39.91	≤ -19.78	PASS
		2440	Reference	0.10	0.10	---	PASS
			30~1000	0.10	-69.84	≤ -19.9	PASS
			1000~26500	0.10	-39.03	≤ -19.9	PASS
		2480	Reference	-0.70	-0.70	---	PASS
			30~1000	-0.70	-68.33	≤ -20.7	PASS
			1000~26500	-0.70	-41.63	≤ -20.7	PASS
BLE_2M	Ant1	2402	Reference	0.08	0.08	---	PASS
			30~1000	0.08	-69.28	≤ -19.92	PASS
			1000~26500	0.08	-39.59	≤ -19.92	PASS
		2440	Reference	-0.17	-0.17	---	PASS
			30~1000	-0.17	-70.21	≤ -20.17	PASS
			1000~26500	-0.17	-39.3	≤ -20.17	PASS
		2480	Reference	-0.85	-0.85	---	PASS
			30~1000	-0.85	-69.99	≤ -20.85	PASS
			1000~26500	-0.85	-41.71	≤ -20.85	PASS

Test Graphs

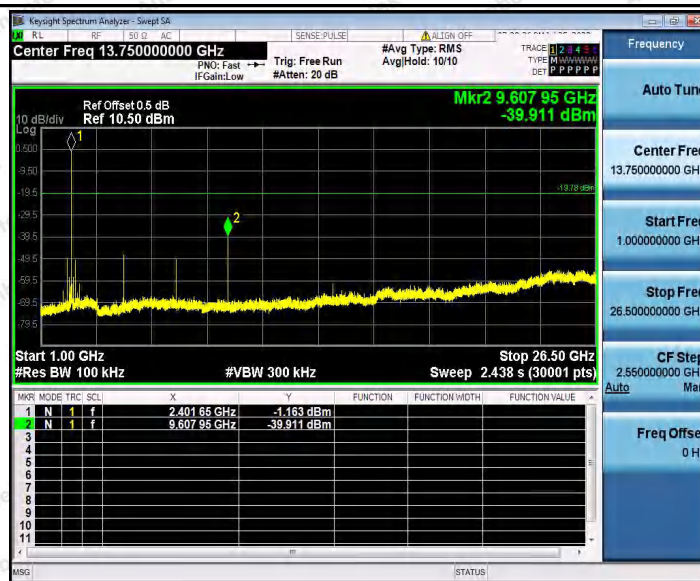
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BLE_1M_Ant1_2402_30~1000



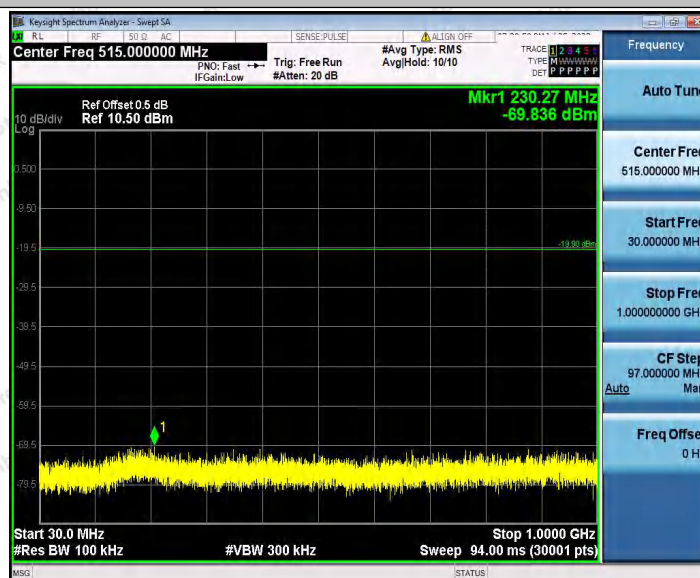
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



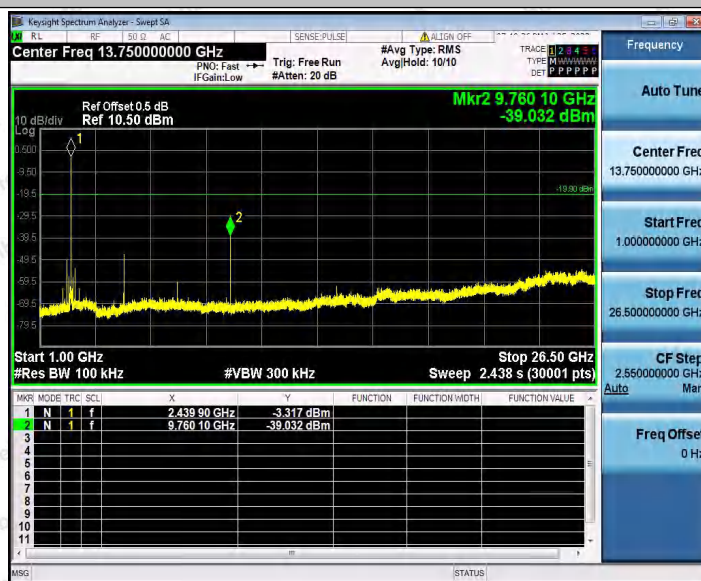
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



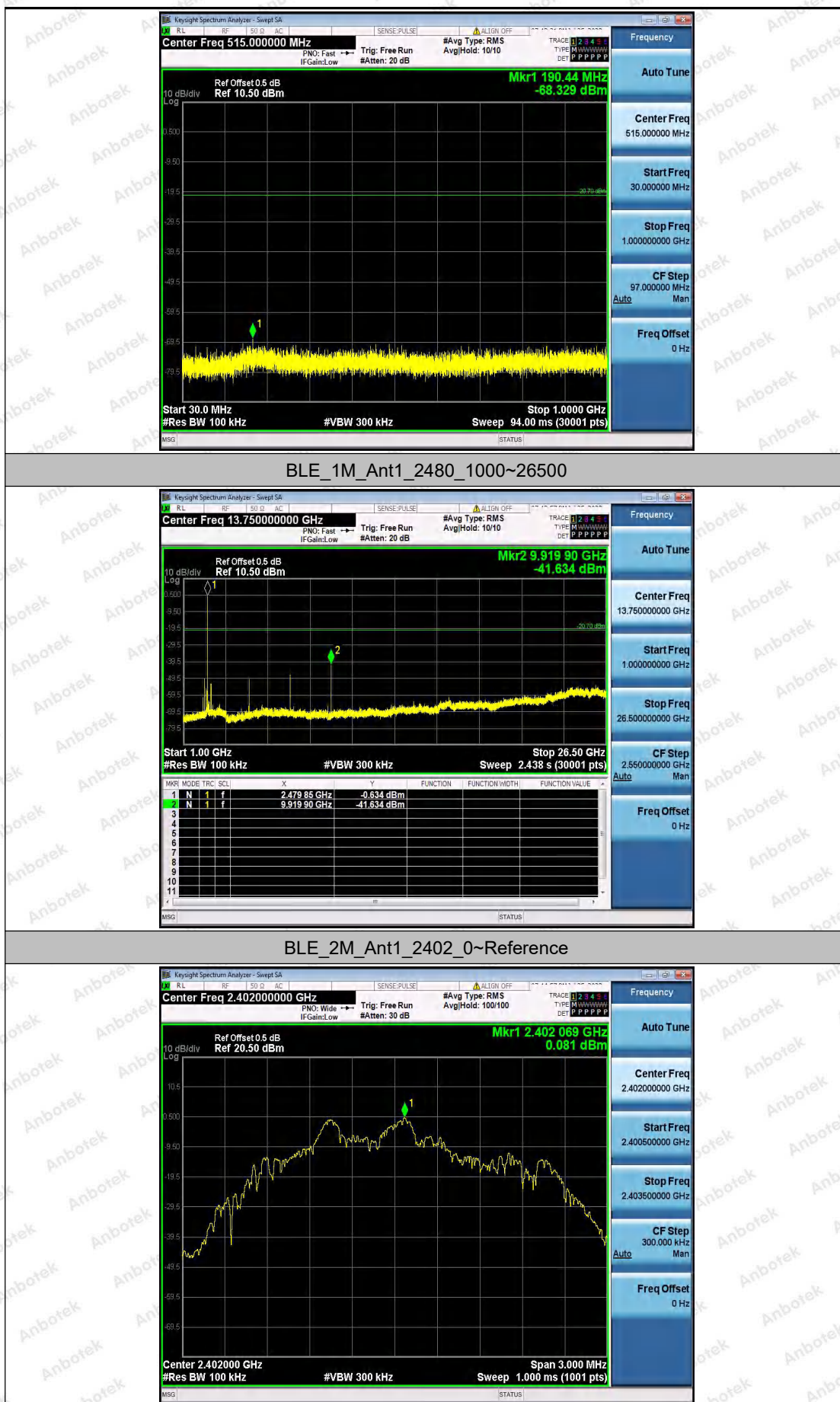
BLE_1M_Ant1_2480_30~1000

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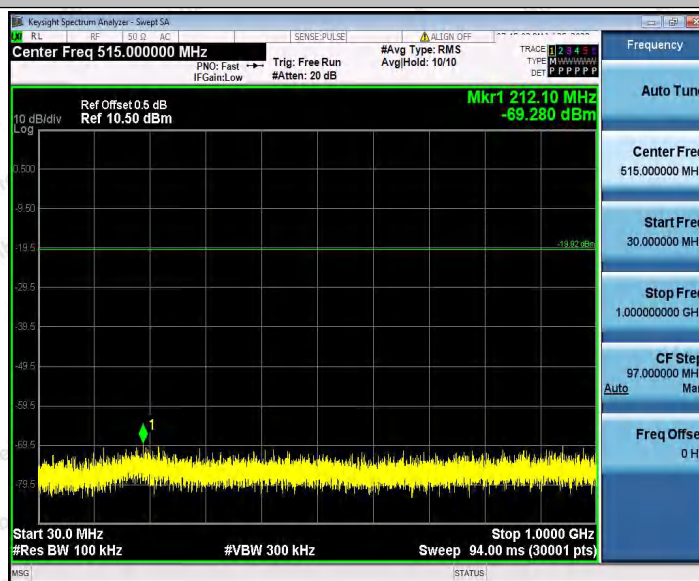
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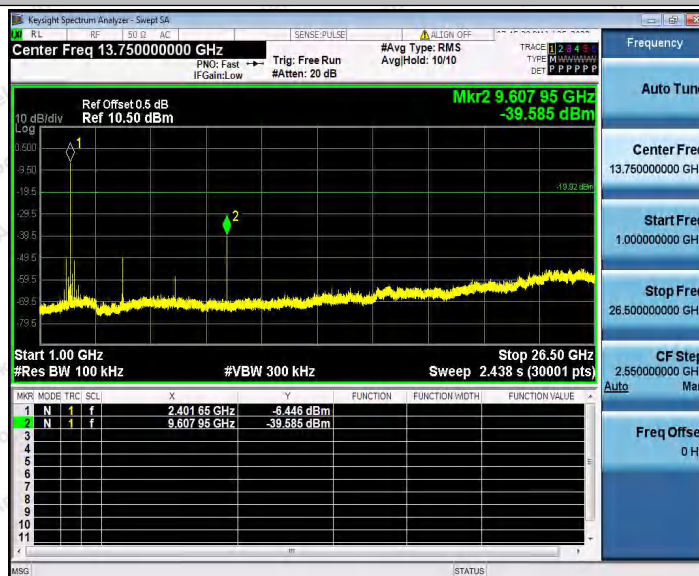
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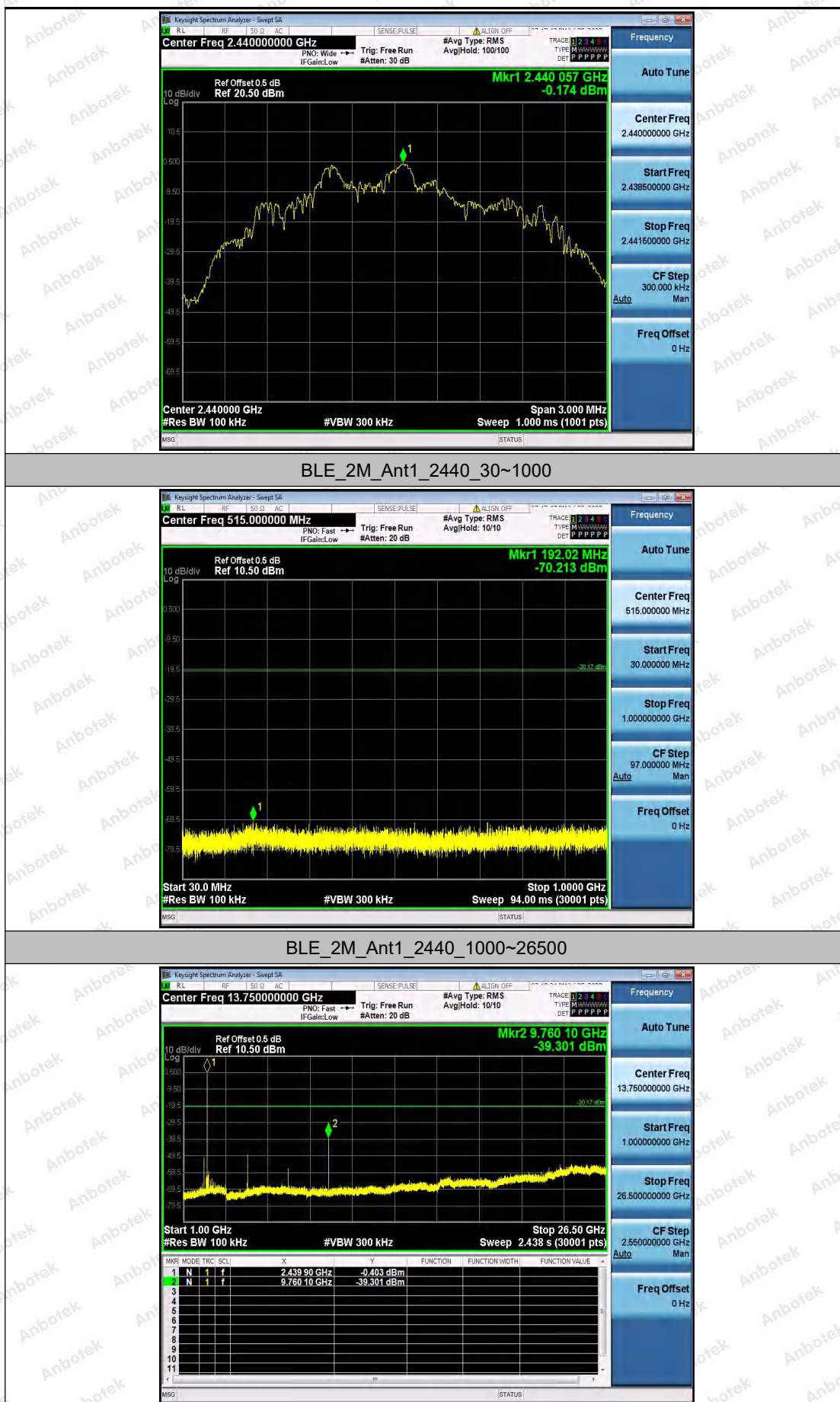
BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference



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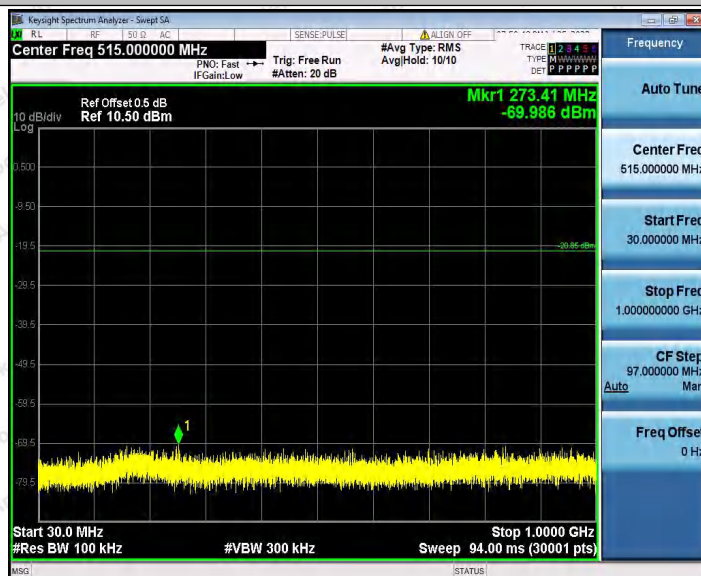
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



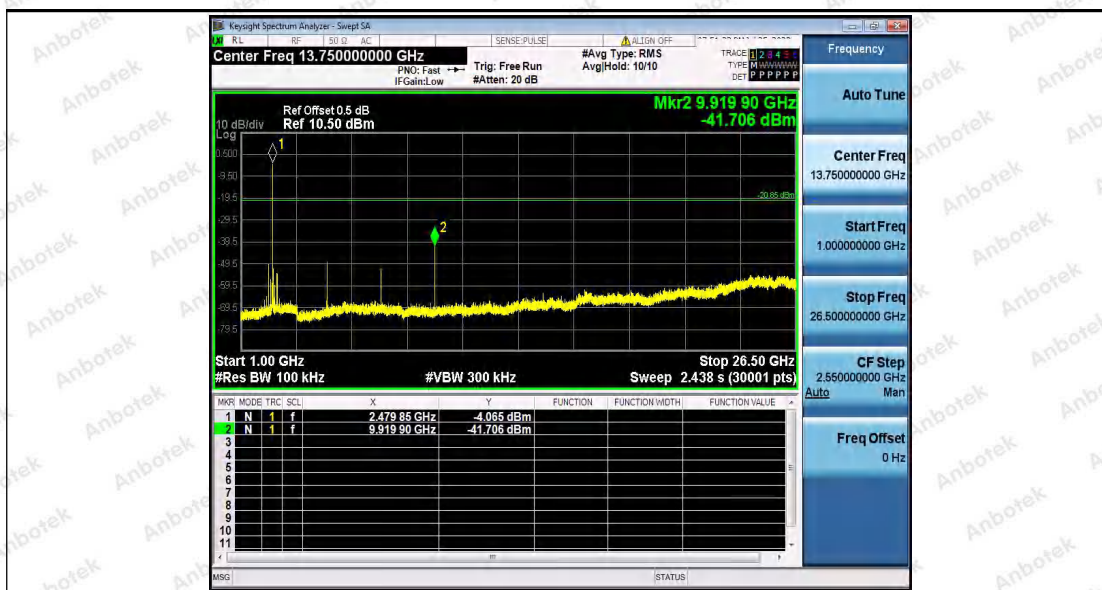
BLE_2M_Ant1_2480_1000~26500

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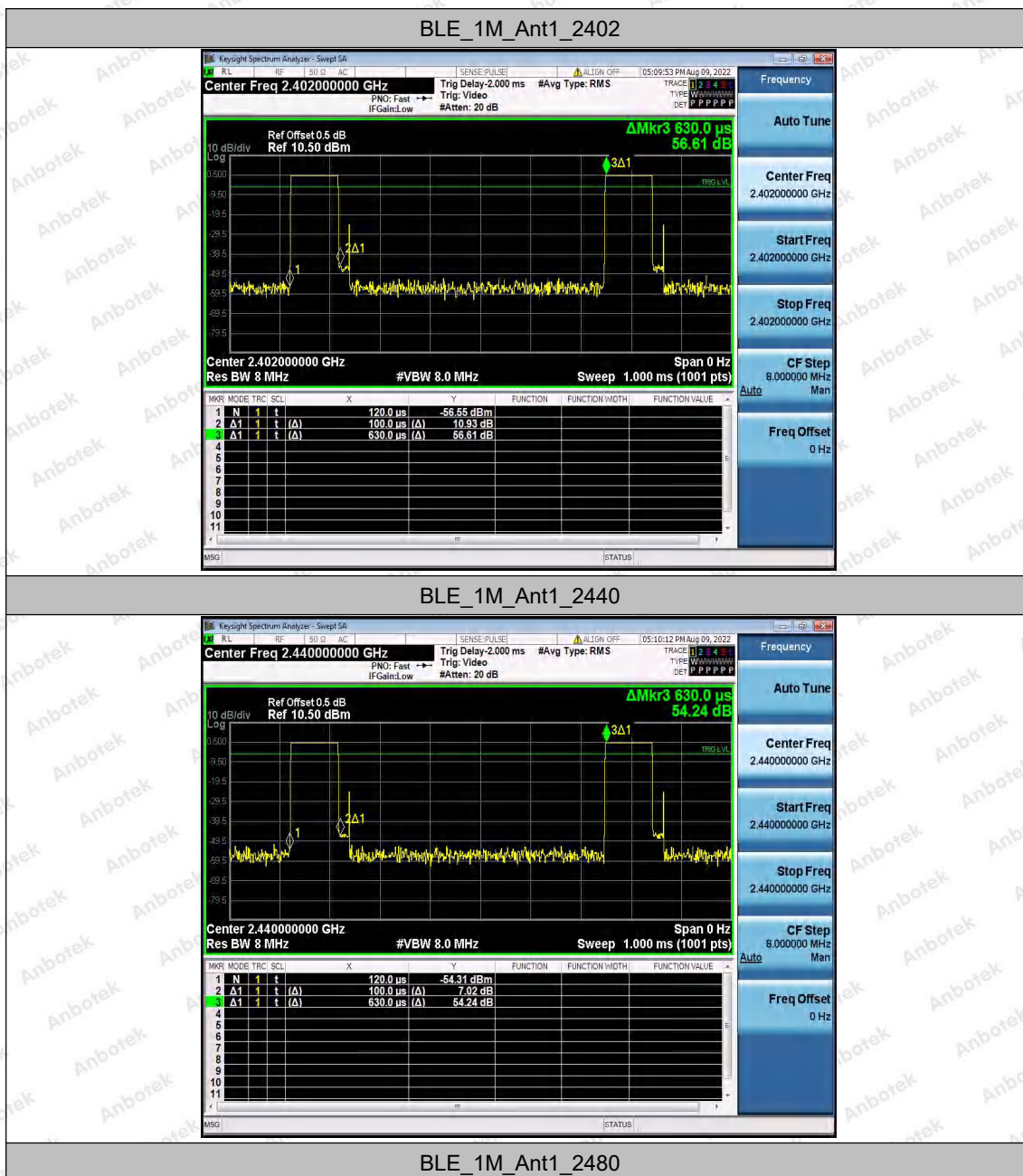
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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.10	0.63	15.87	7.99
		2440	0.10	0.63	15.87	7.99
		2480	0.10	0.63	15.87	7.99
BLE_2M	Ant1	2402	0.07	0.63	11.11	9.54
		2440	0.07	0.63	11.11	9.54
		2480	0.07	0.63	11.11	9.54

Test Graphs

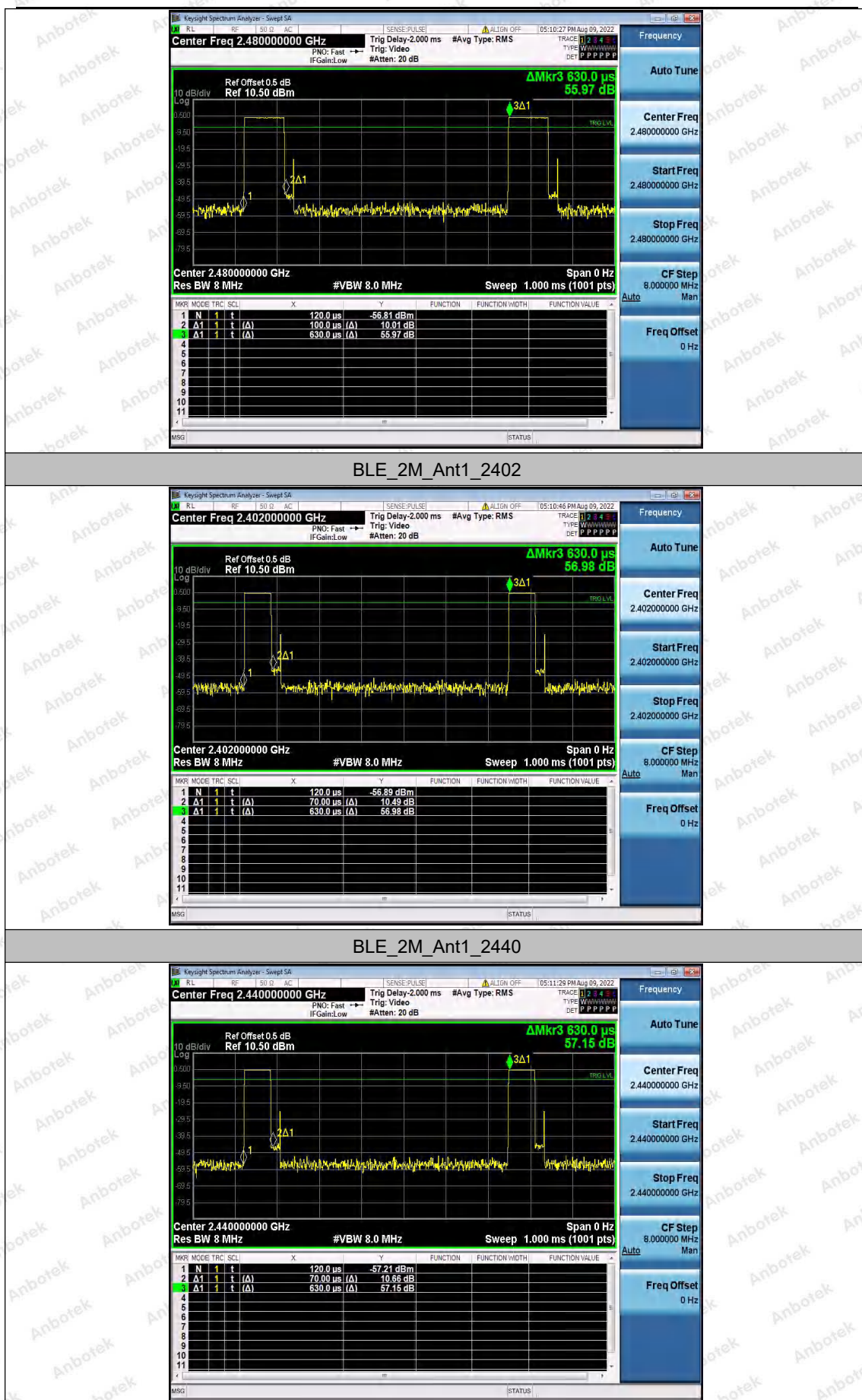


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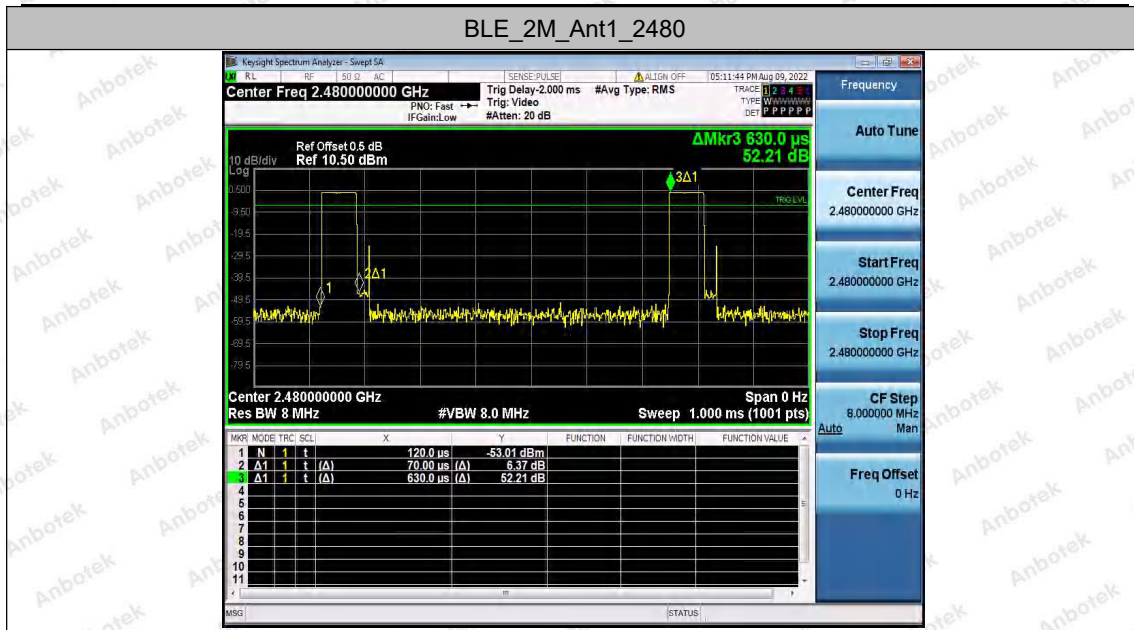
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