

Appendix Test Data

Report No.:	18220WC20148901	Test Sample No.:	1-2-2
Start Test Date:	2022.7.7	Finish Test Date:	2022.7.15
Test Engineer:	<i>Zong He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57.2 %
Pressure:	1012 hPa		

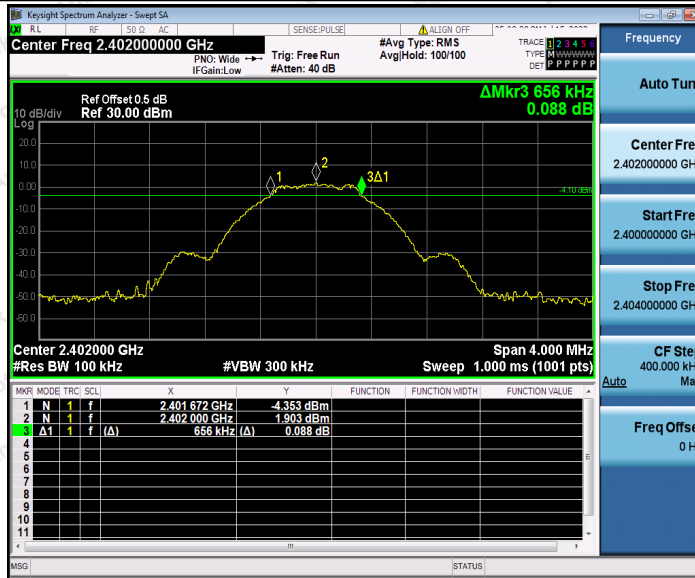
Appendix A: DTS Bandwidth

Test Result

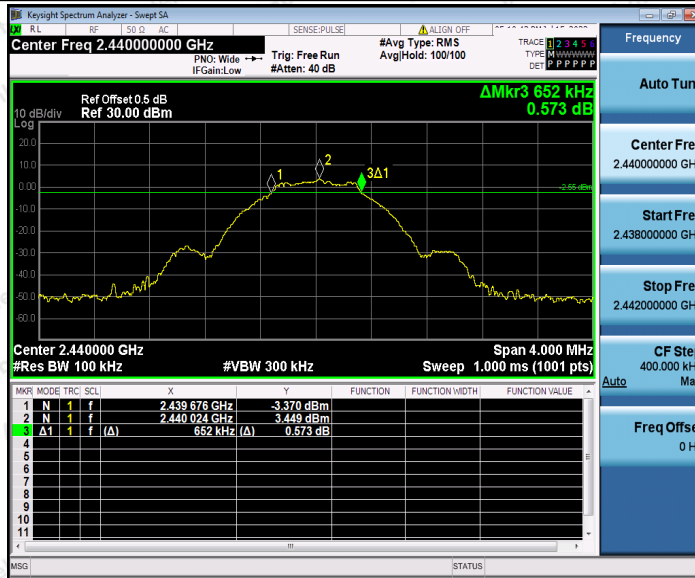
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.656	2401.672	2402.328	≥0.5	PASS
		2440	0.652	2439.676	2440.328	≥0.5	PASS
		2480	0.632	2479.680	2480.312	≥0.5	PASS
BLE_2M	Ant1	2402	1.068	2401.468	2402.536	≥0.5	PASS
		2440	1.084	2439.448	2440.532	≥0.5	PASS
		2480	1.096	2479.432	2480.528	≥0.5	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

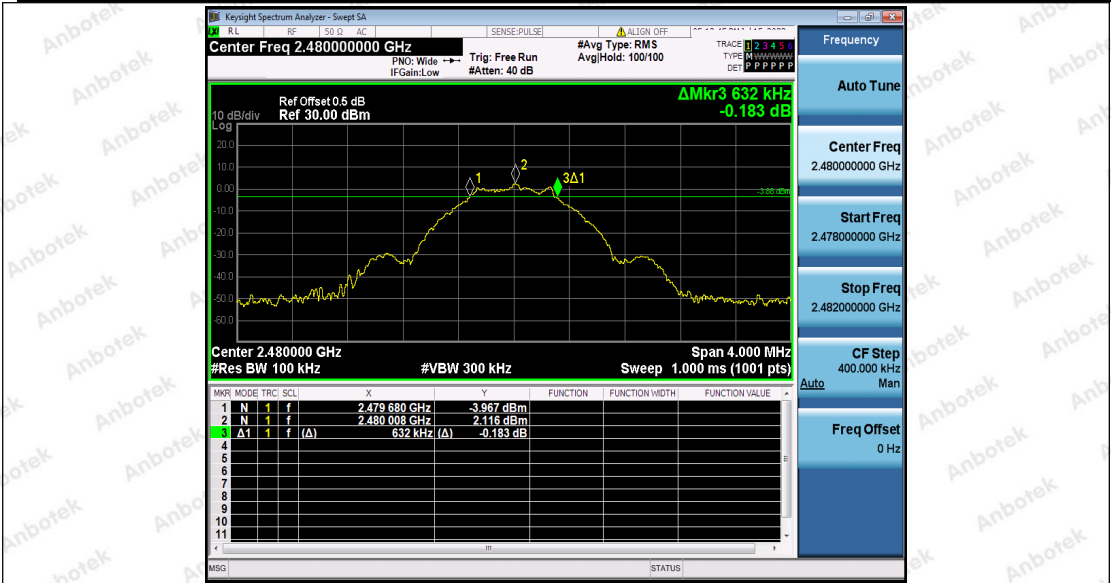


BLE_1M_Ant1_2480

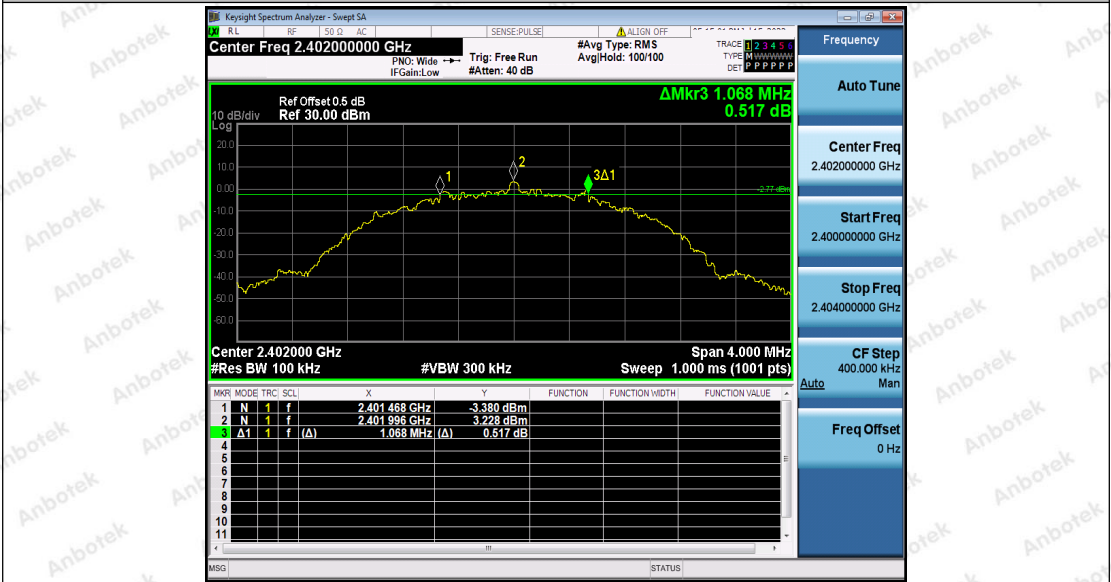
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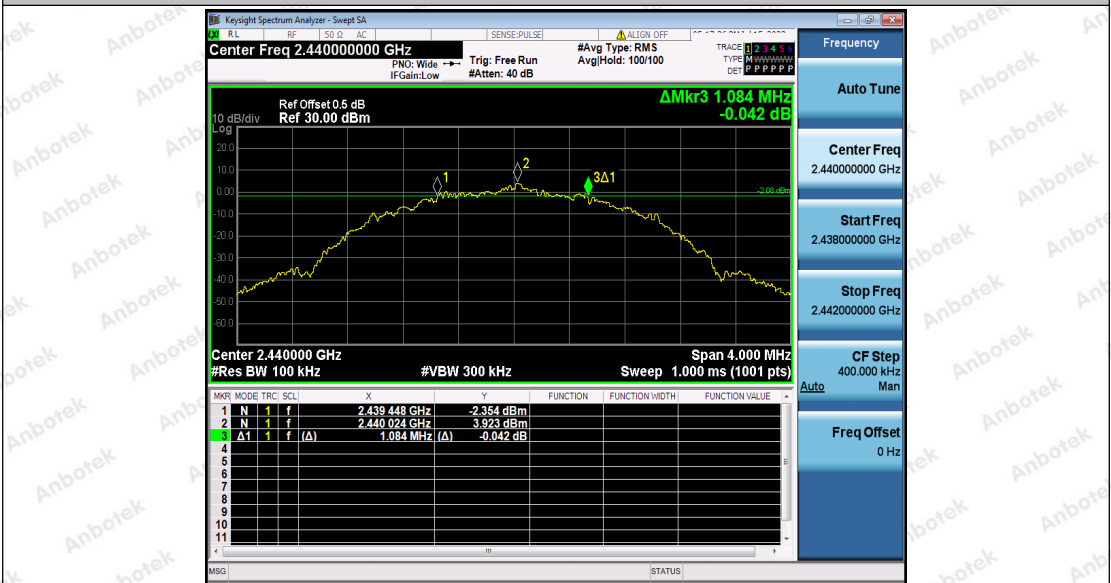
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BLE_2M_Ant1_2402



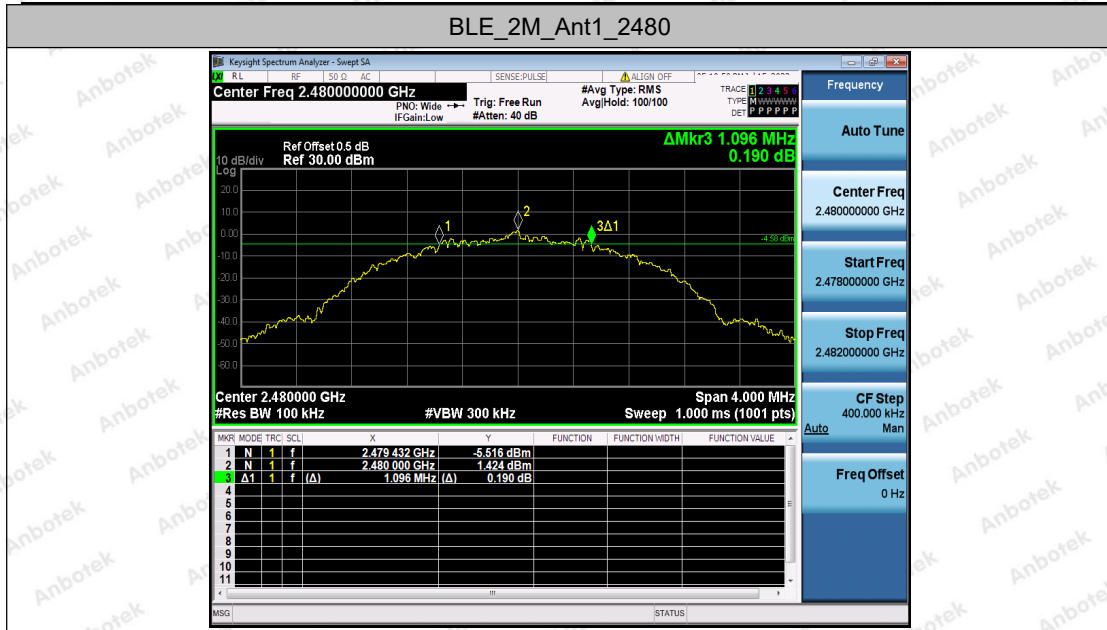
BLE_2M_Ant1_2440



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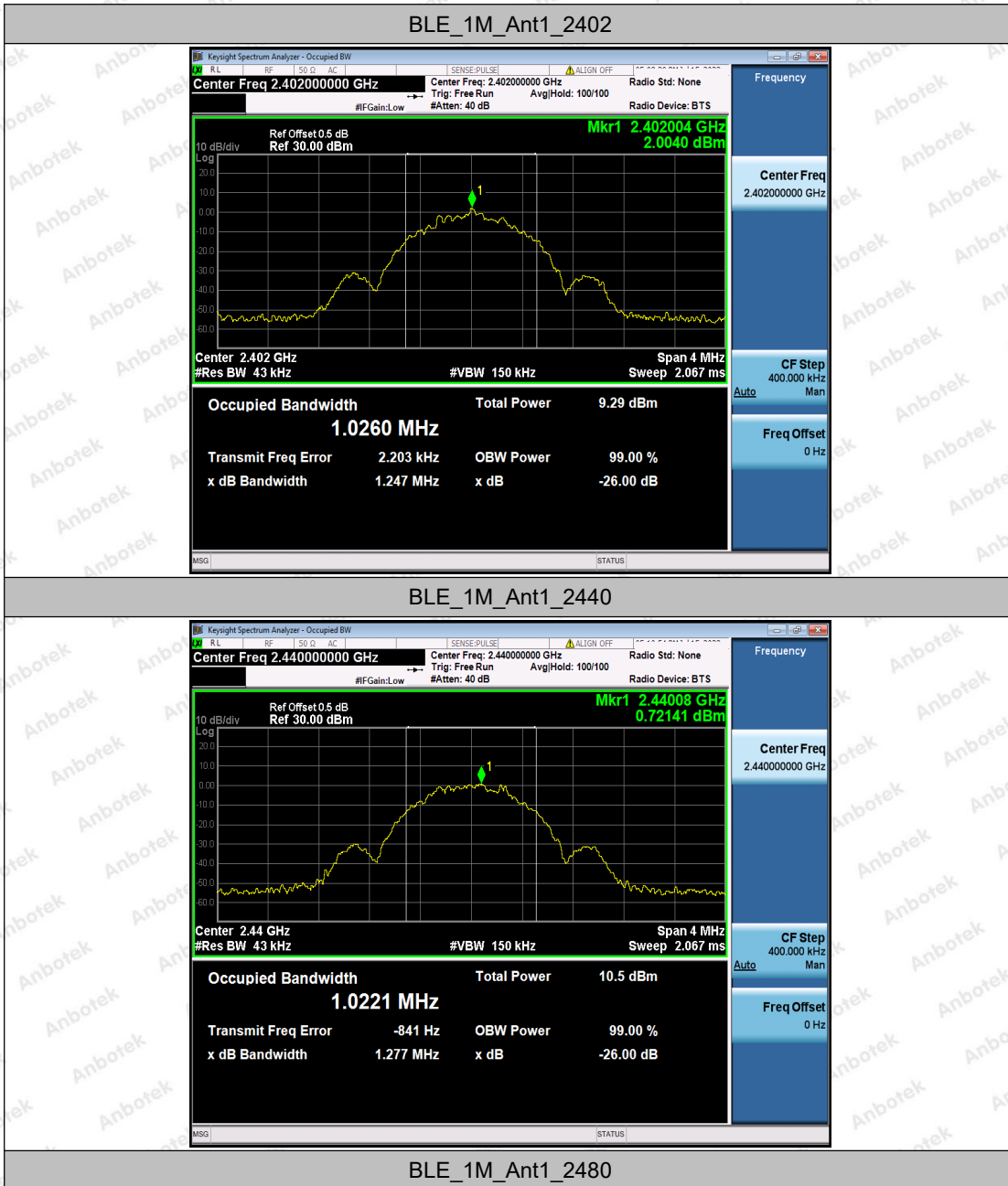
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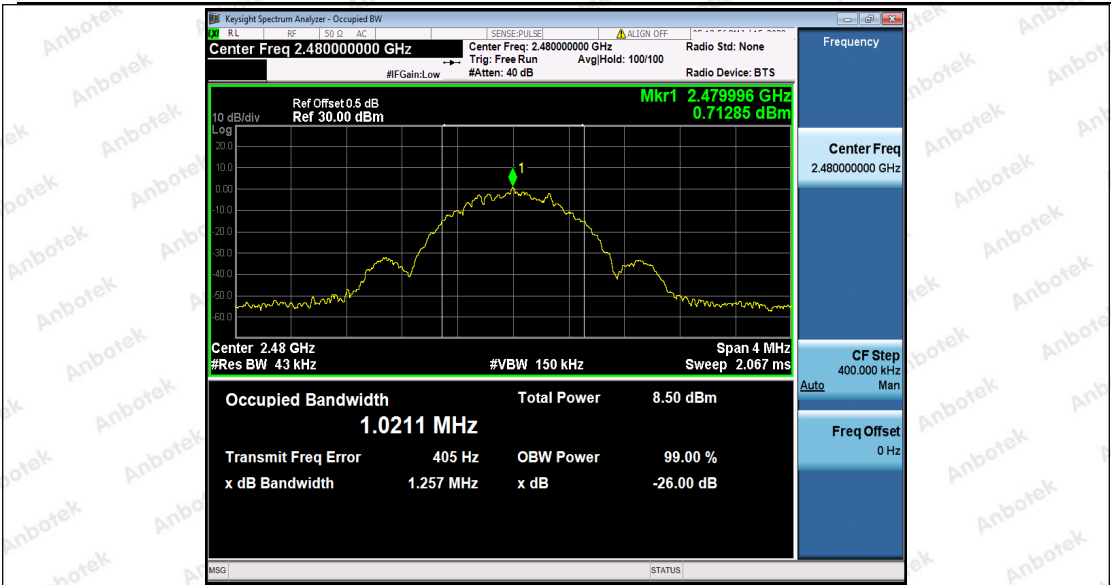
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0260	2401.489	2402.515	---	PASS
		2440	1.0221	2439.488	2440.510	---	PASS
		2480	1.0211	2479.490	2480.511	---	PASS
BLE_2M	Ant1	2402	2.0542	2400.987	2403.041	---	PASS
		2440	2.0534	2438.983	2441.036	---	PASS
		2480	2.0377	2479.000	2481.038	---	PASS

Test Graphs





BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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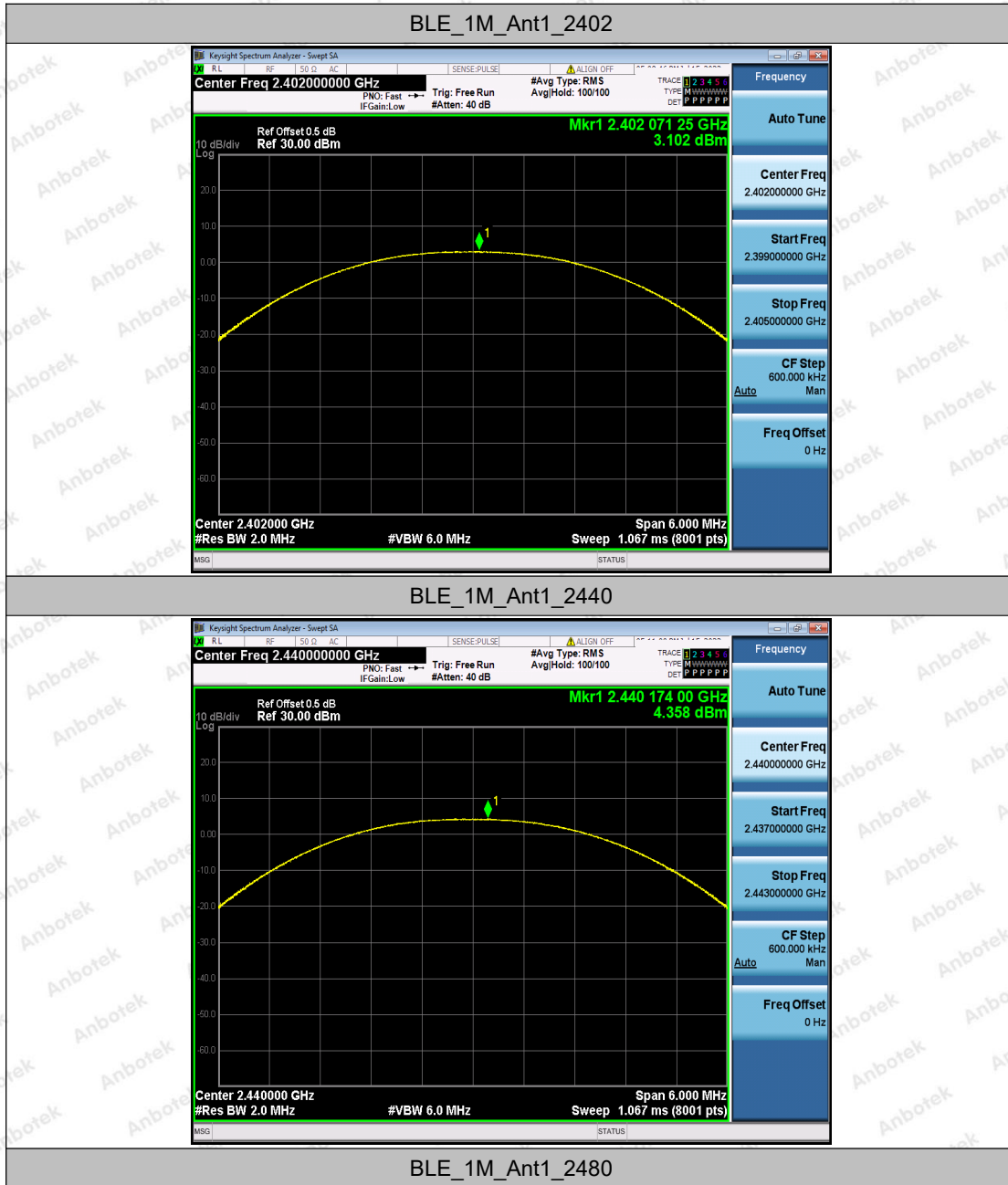
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.1	≤30	PASS
		2440	4.36	≤30	PASS
		2480	2.38	≤30	PASS
BLE_2M	Ant1	2402	3.45	≤30	PASS
		2440	4.83	≤30	PASS
		2480	2.54	≤30	PASS

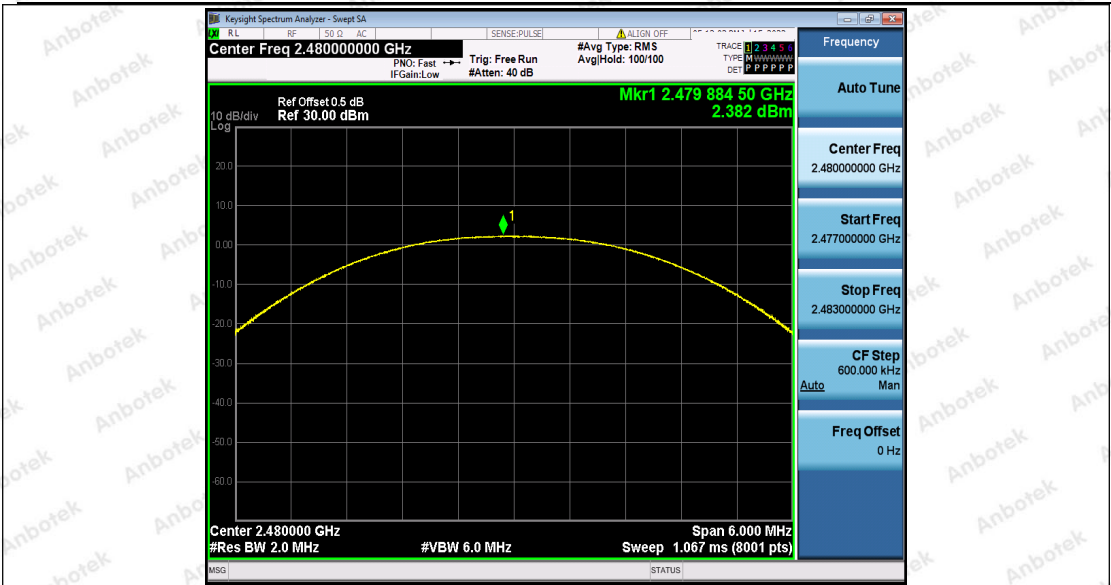
Test Graphs



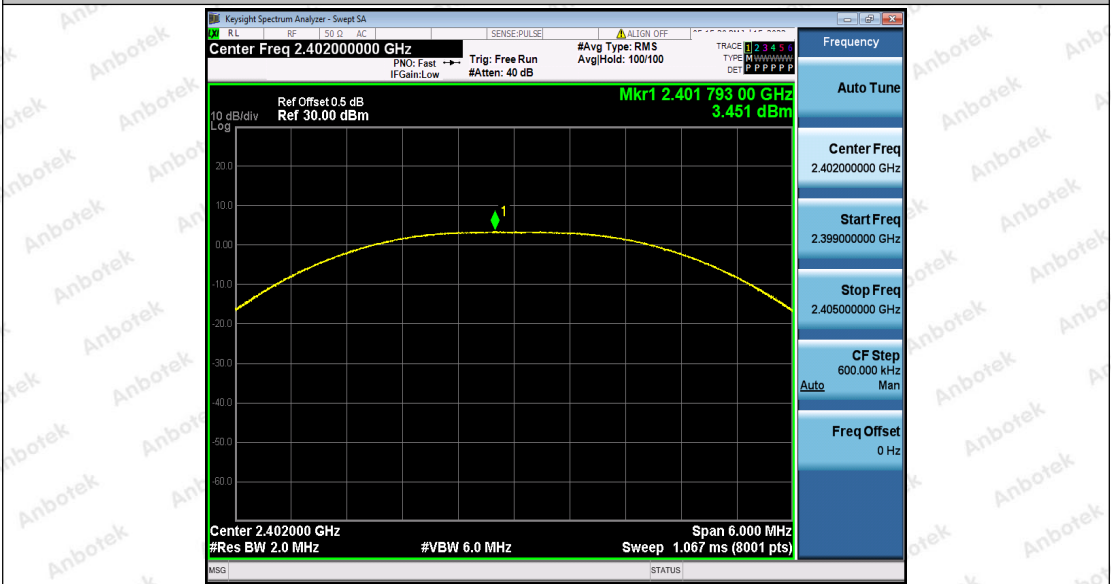
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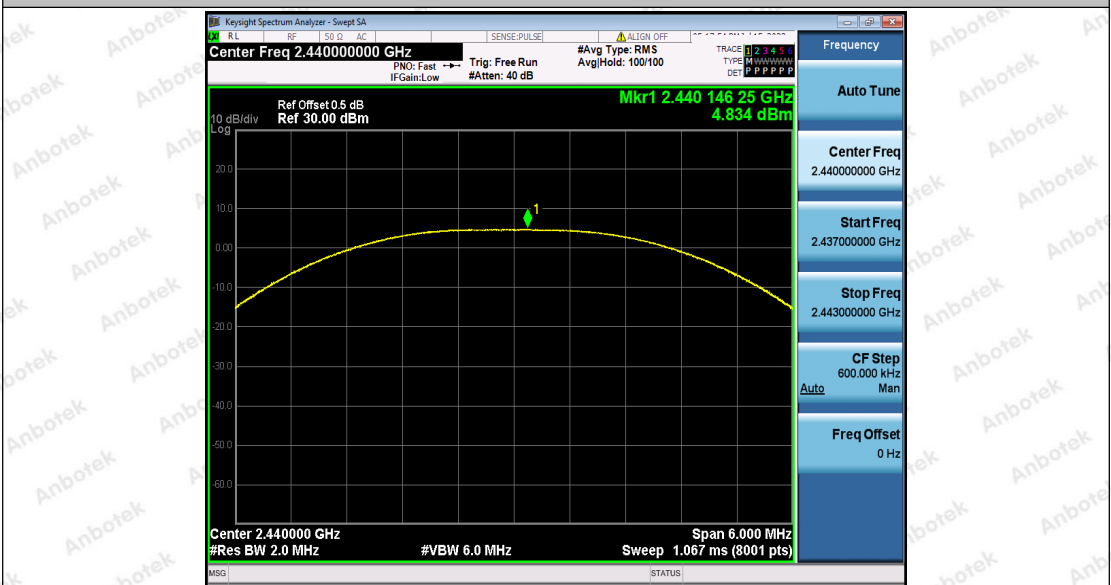
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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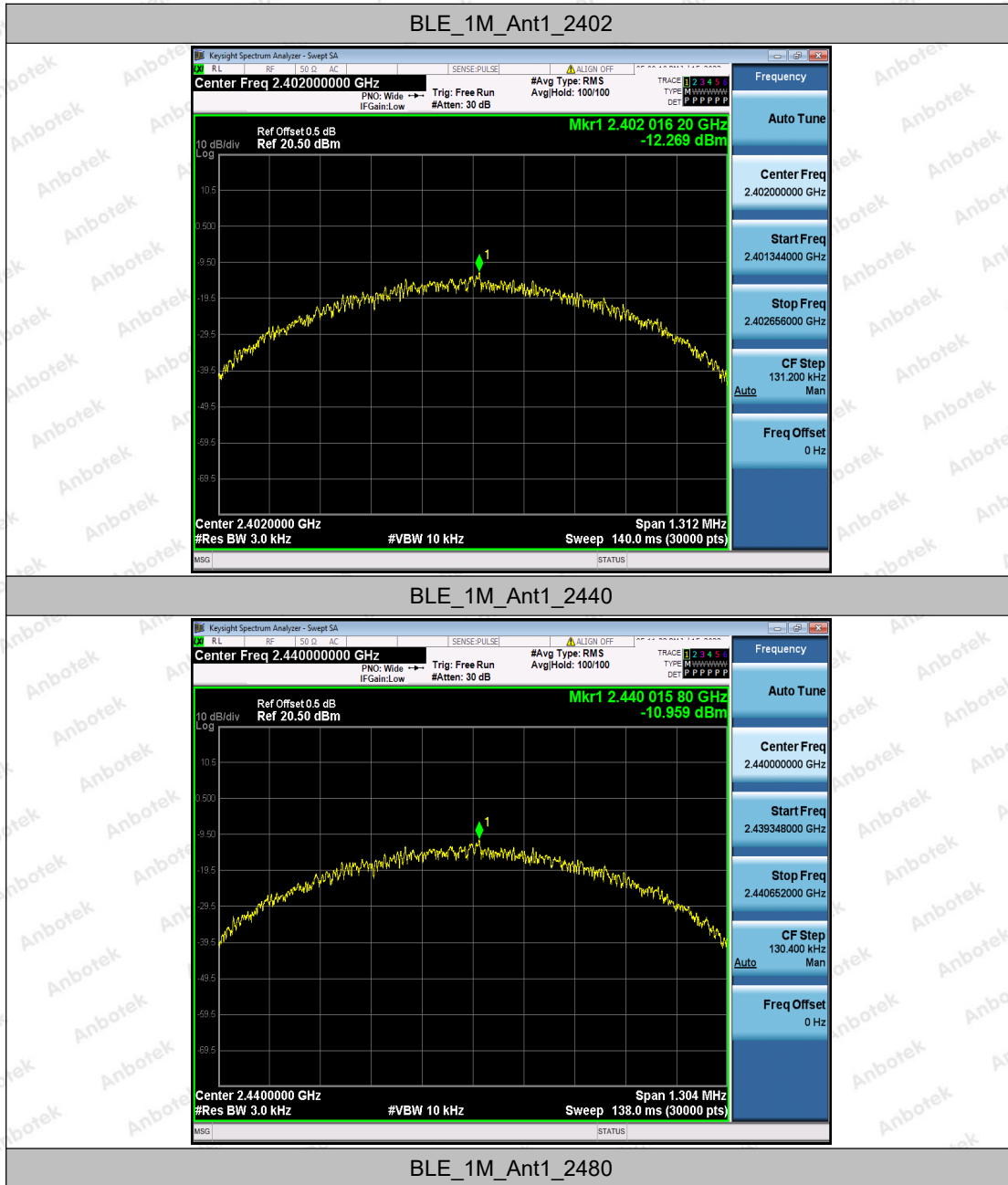
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.27	≤8	PASS
		2440	-10.96	≤8	PASS
		2480	-12.99	≤8	PASS
BLE_2M	Ant1	2402	-13.77	≤8	PASS
		2440	-12.49	≤8	PASS
		2480	-14.87	≤8	PASS

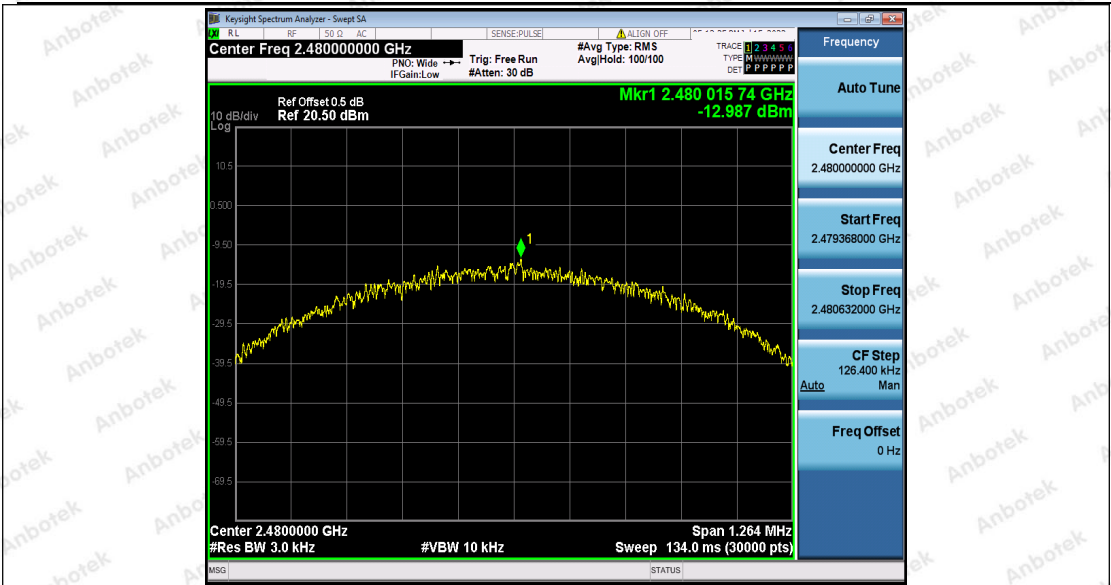
Test Graphs



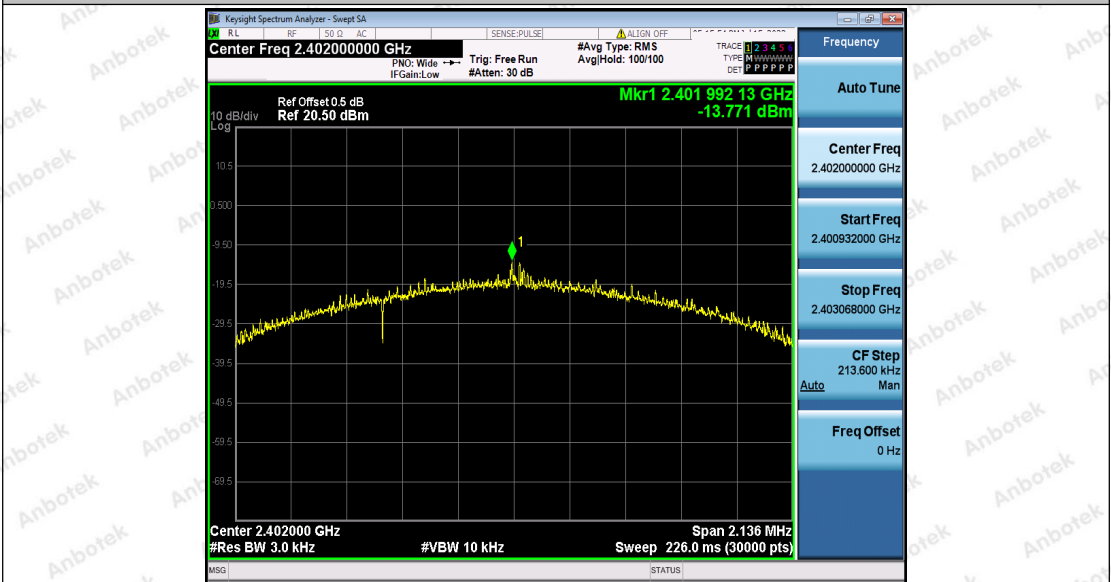
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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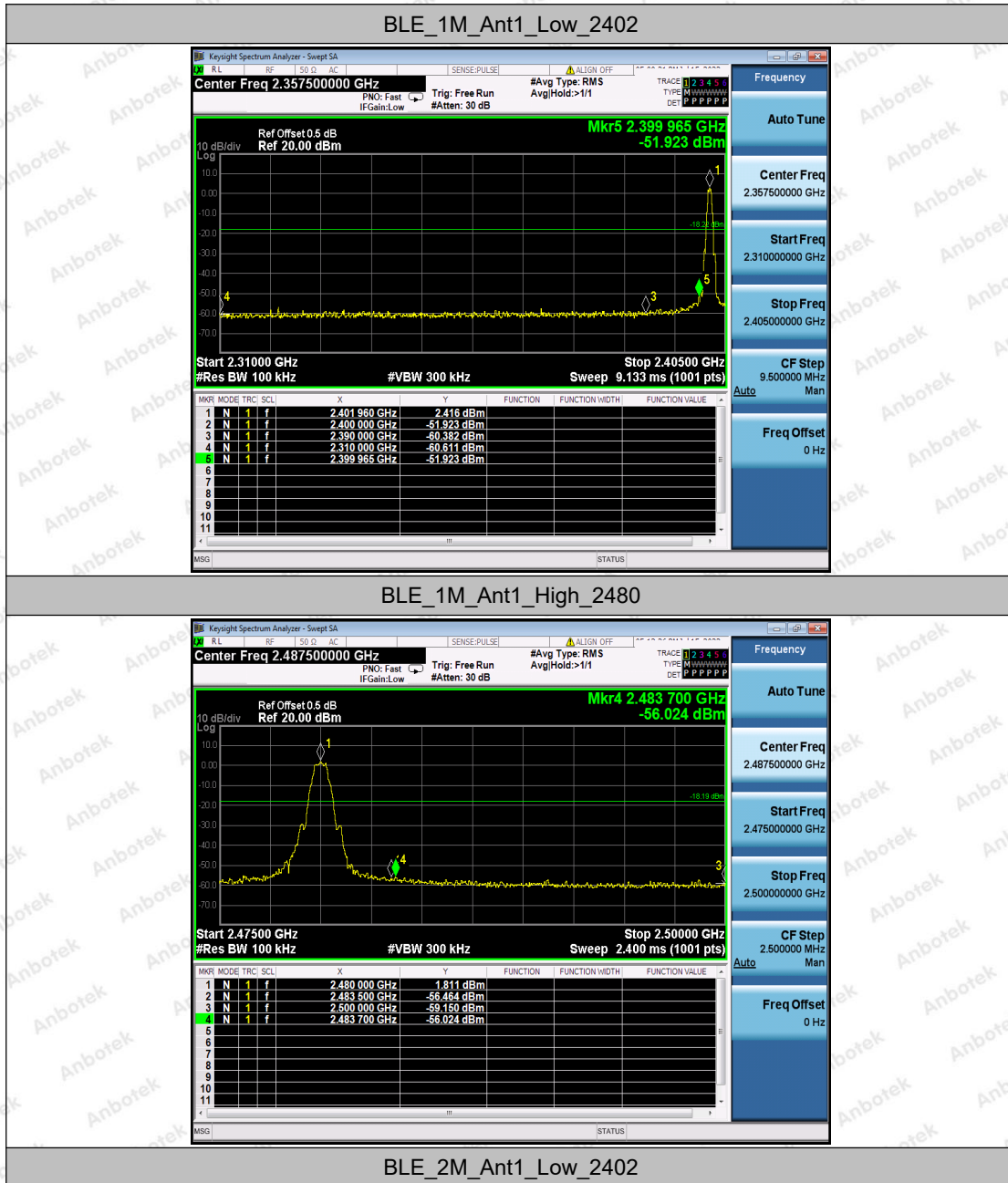
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.78	-51.92	≤-18.22	PASS
		High	2480	1.81	-56.02	≤-18.19	PASS
BLE_2M	Ant1	Low	2402	3.39	-45.83	≤-16.61	PASS
		High	2480	2.50	-56.01	≤-17.5	PASS

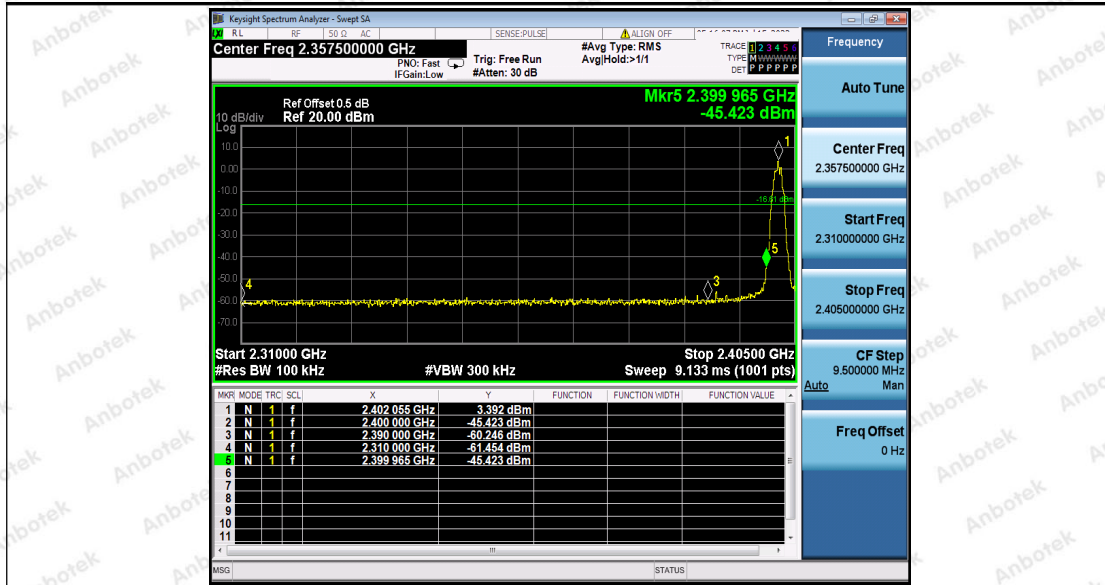
Test Graphs



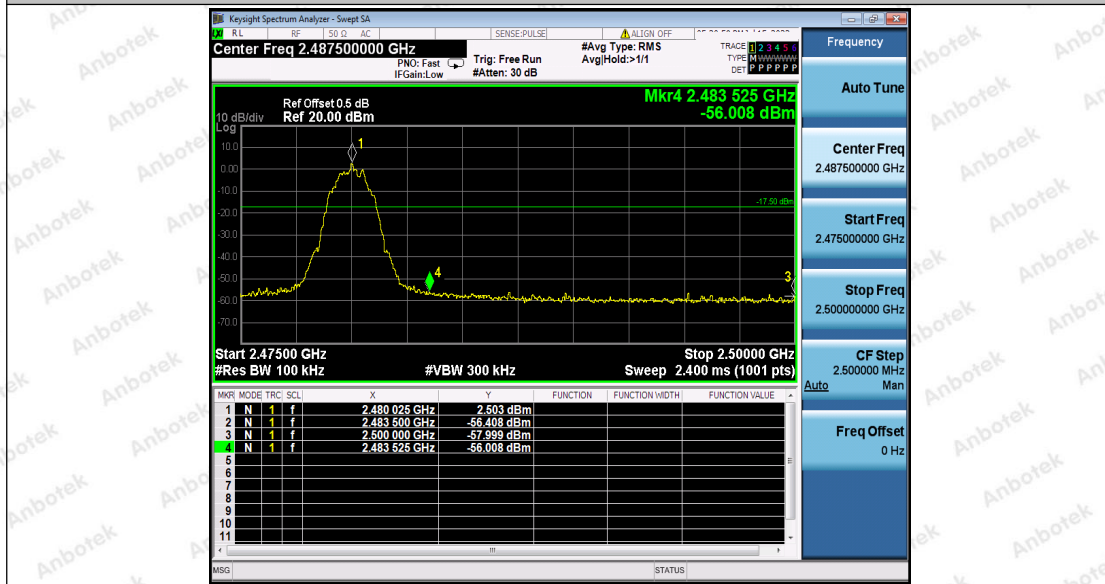
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BLE_2M_Ant1_High_2480

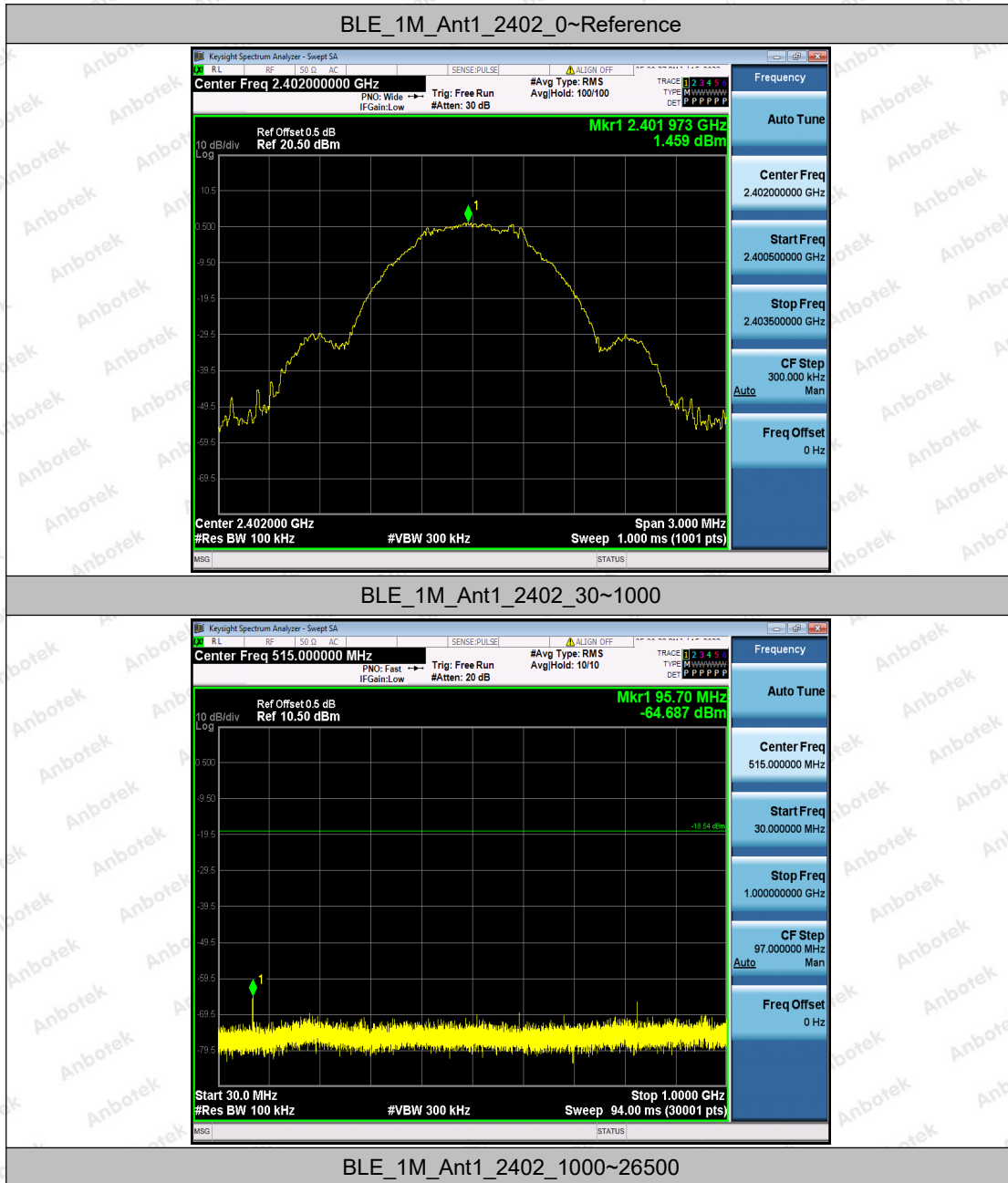


Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	1.46	1.46	---	PASS
			30~1000	1.46	-64.69	≤-18.54	PASS
			1000~265 00	1.46	-53.91	≤-18.54	PASS
		2440	Reference	2.95	2.95	---	PASS
			30~1000	2.95	-64.39	≤-17.05	PASS
			1000~265 00	2.95	-53.86	≤-17.05	PASS
		2480	Reference	1.98	1.98	---	PASS
			30~1000	1.98	-62.31	≤-18.02	PASS
			1000~265 00	1.98	-54.08	≤-18.02	PASS
BLE_2M	Ant1	2402	Reference	3.33	3.33	---	PASS
			30~1000	3.33	-64.99	≤-16.67	PASS
			1000~265 00	3.33	-54.36	≤-16.67	PASS
		2440	Reference	3.48	3.48	---	PASS
			30~1000	3.48	-65.19	≤-16.52	PASS
			1000~265 00	3.48	-53.98	≤-16.52	PASS
		2480	Reference	1.54	1.54	---	PASS
			30~1000	1.54	-65.26	≤-18.46	PASS
			1000~265 00	1.54	-53.61	≤-18.46	PASS

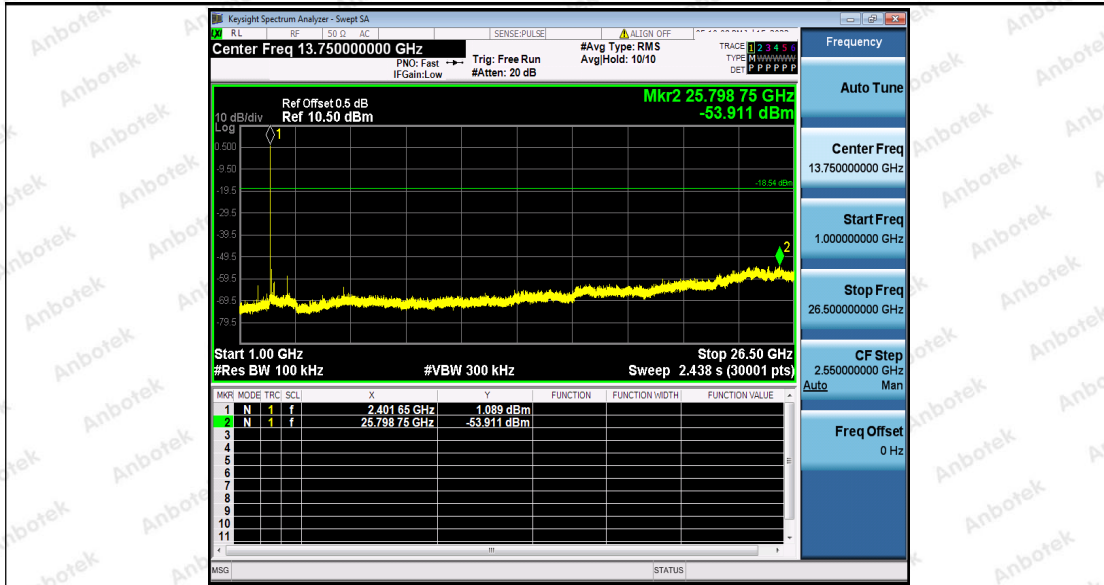
Test Graphs



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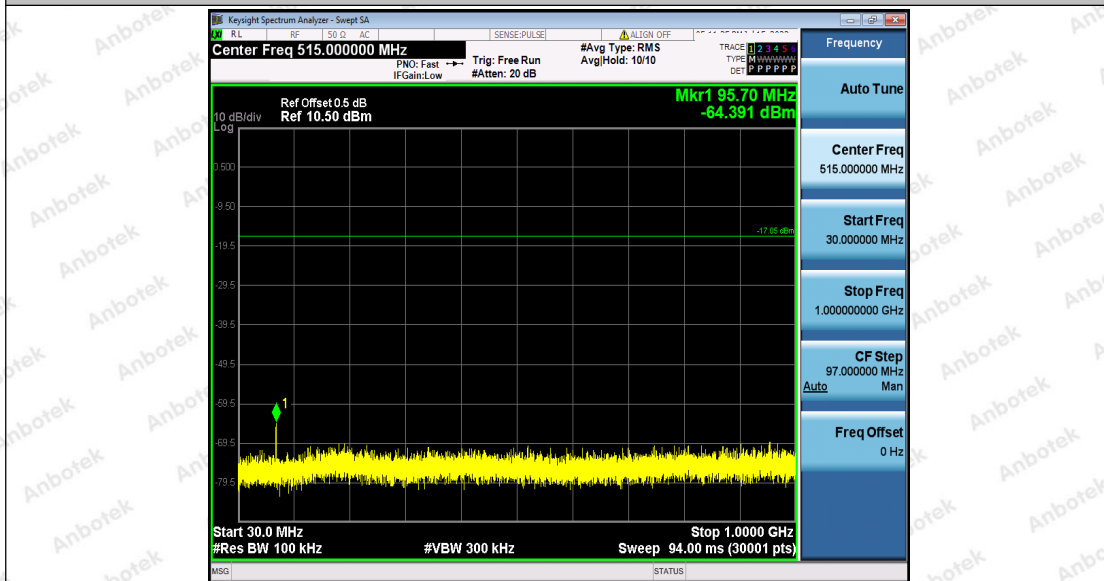
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BLE_1M_Ant1_2440_0~Reference



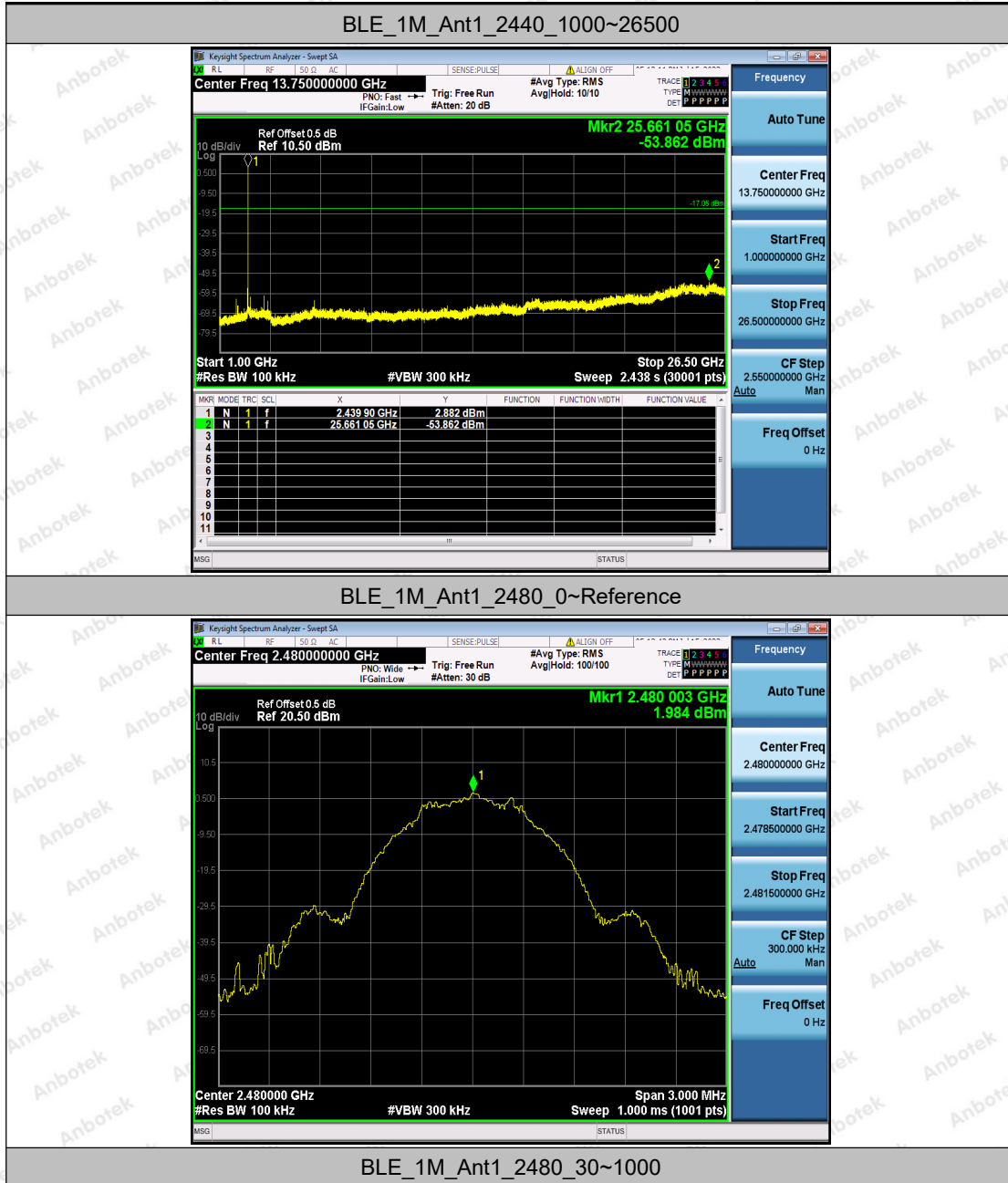
BLE_1M_Ant1_2440_30~1000



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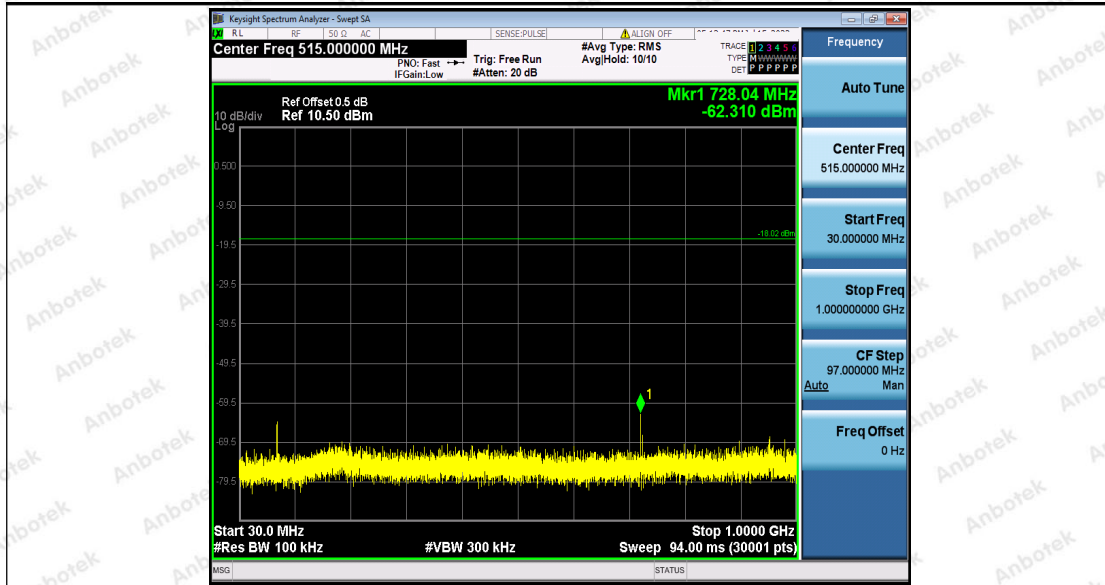
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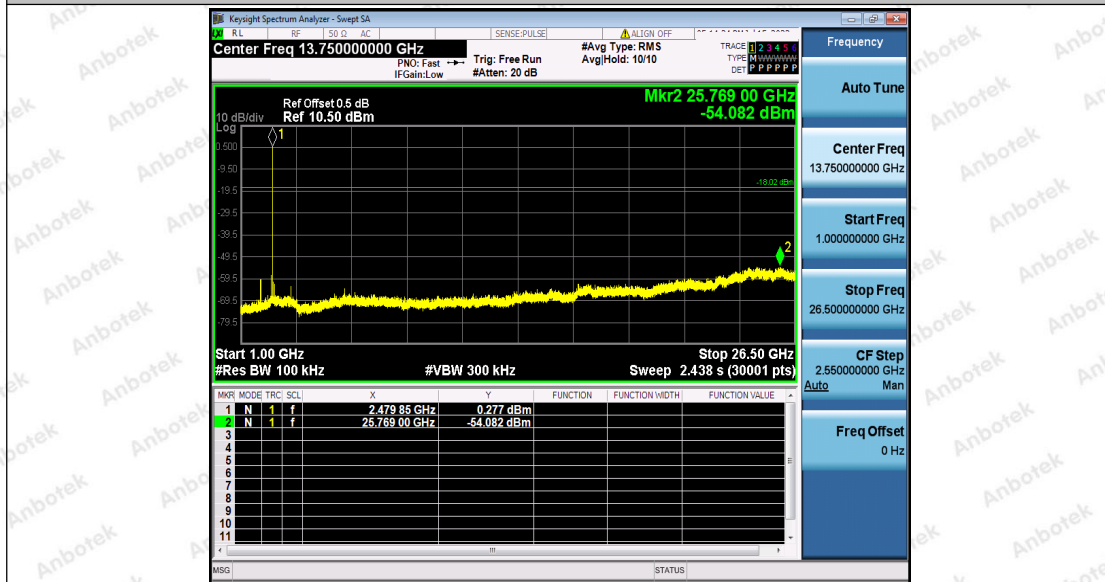
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BLE_1M_Ant1_2480_1000~26500



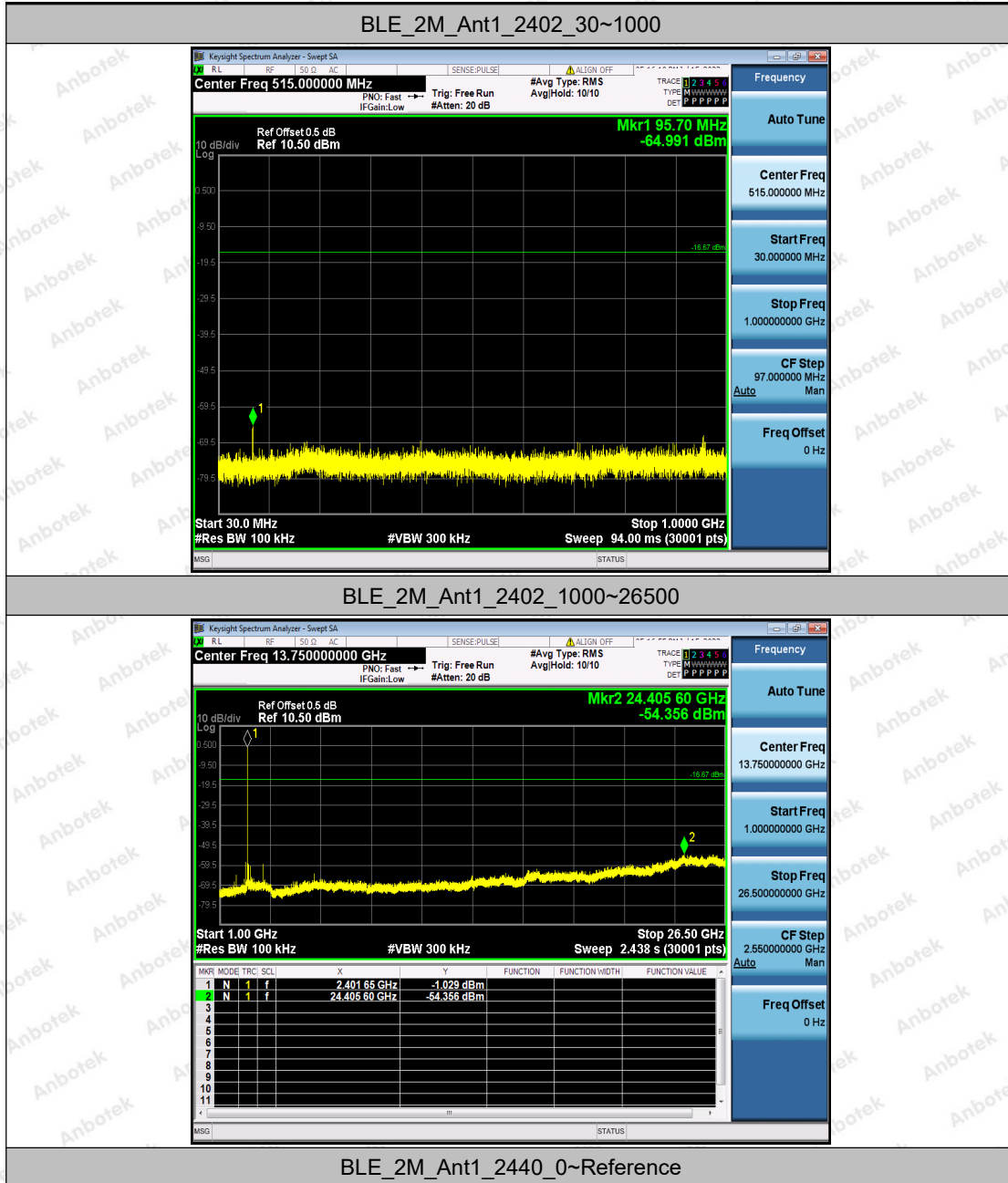
BLE_2M_Ant1_2402_0~Reference



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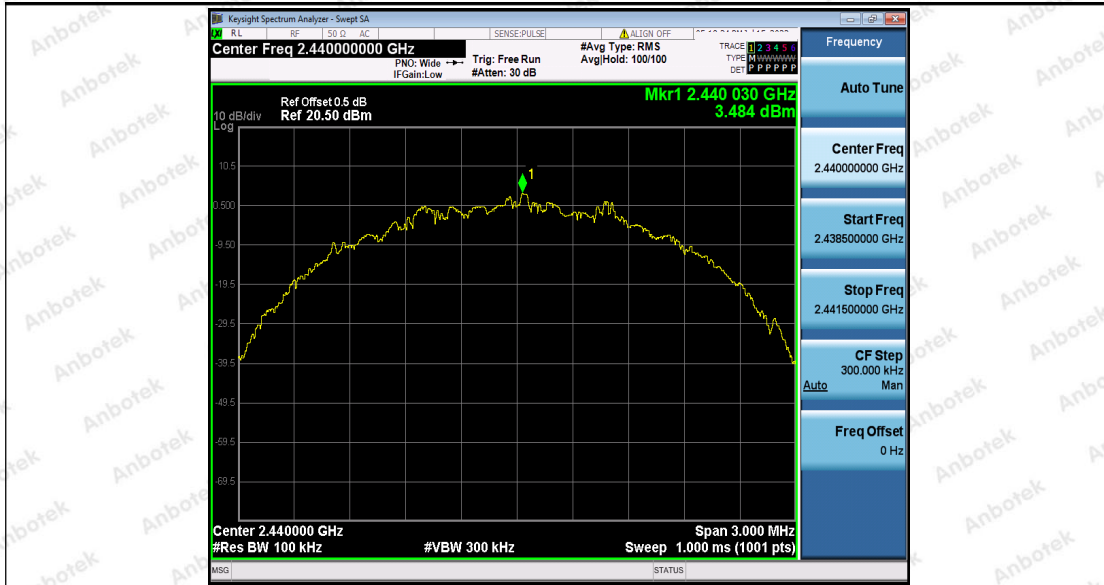


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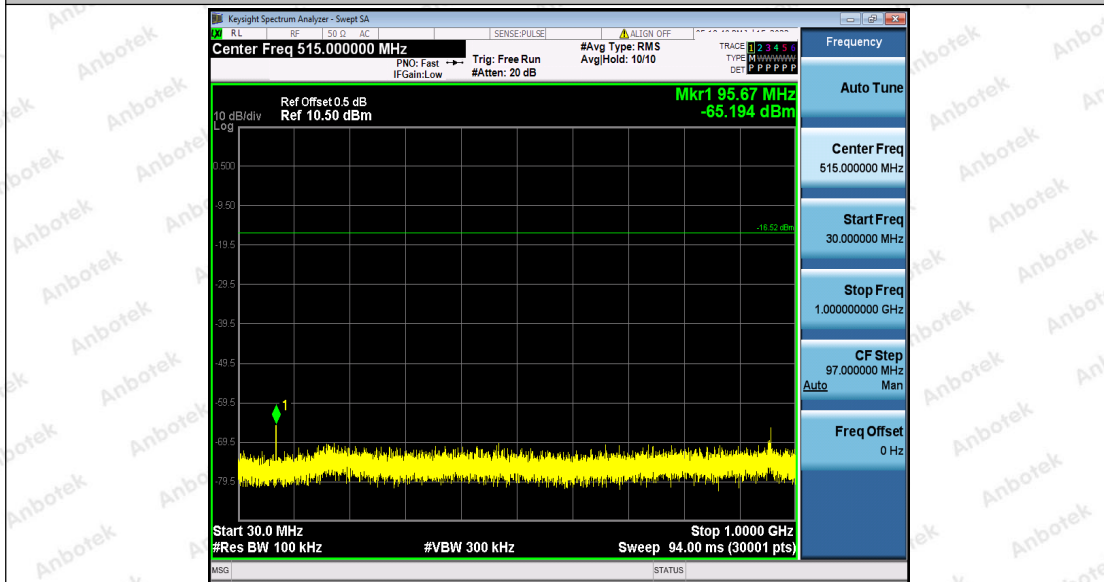
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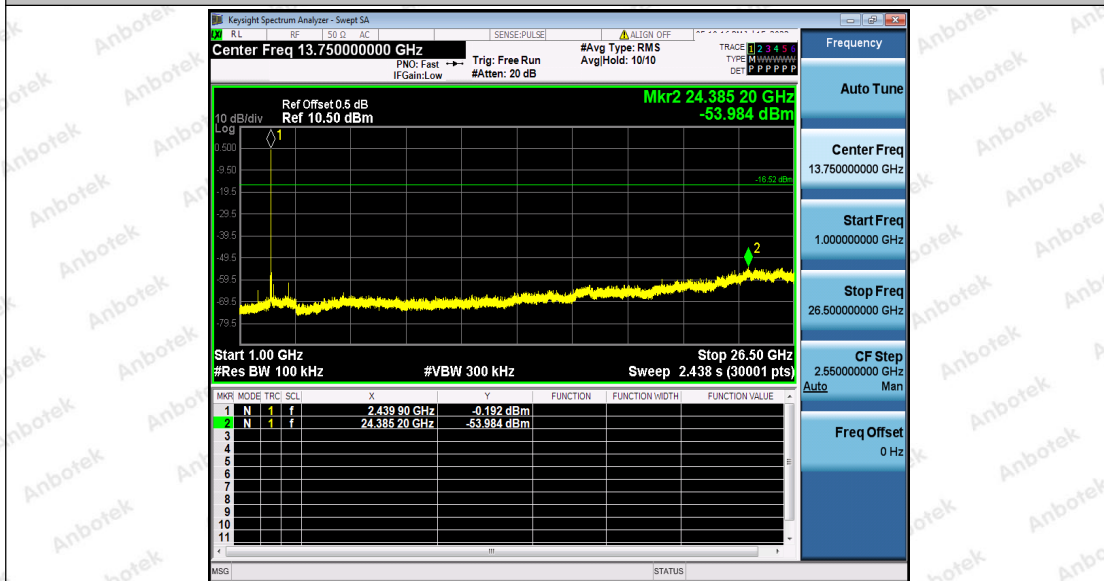
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BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

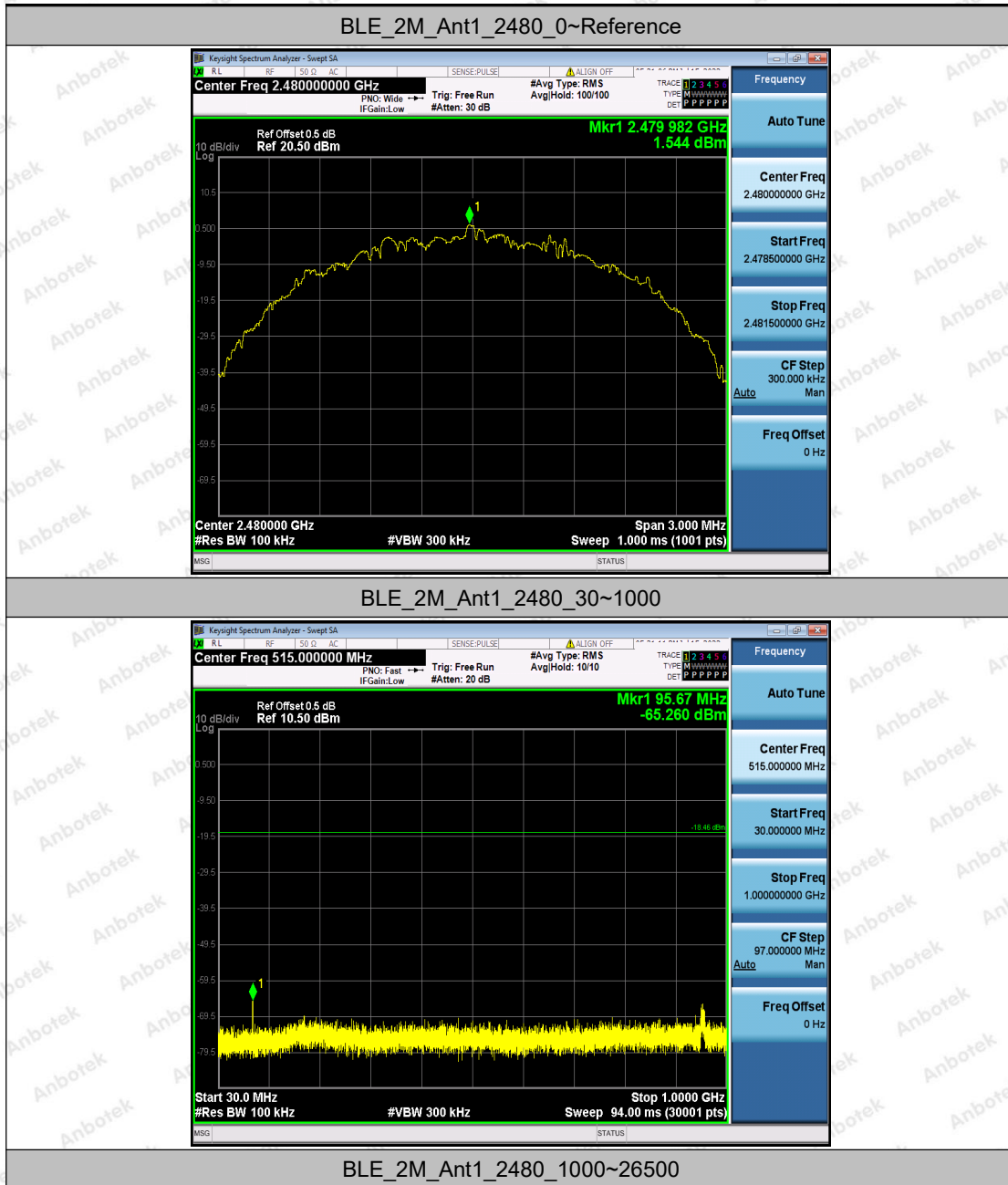


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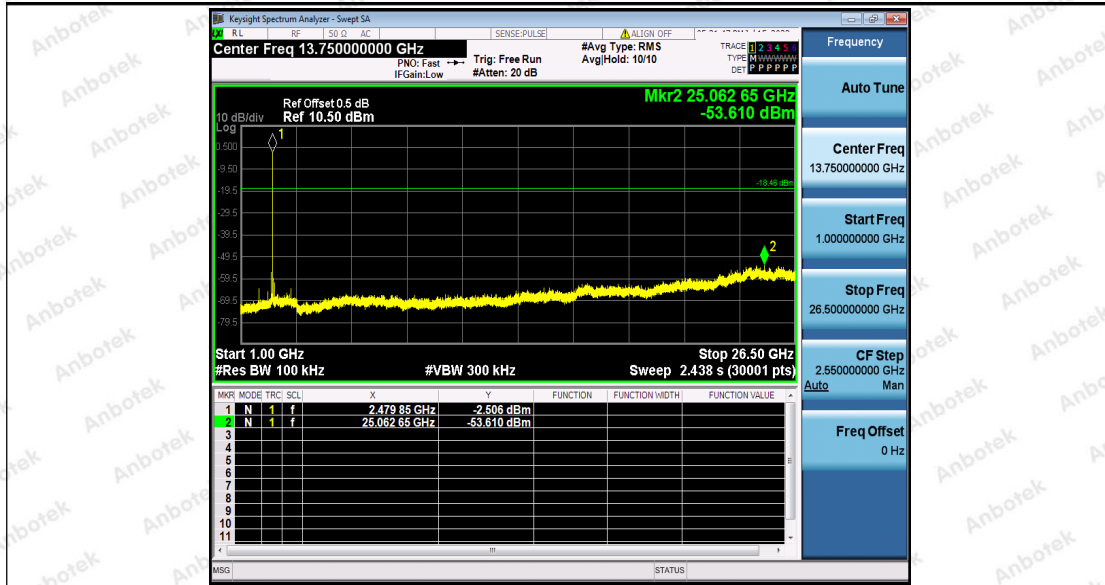
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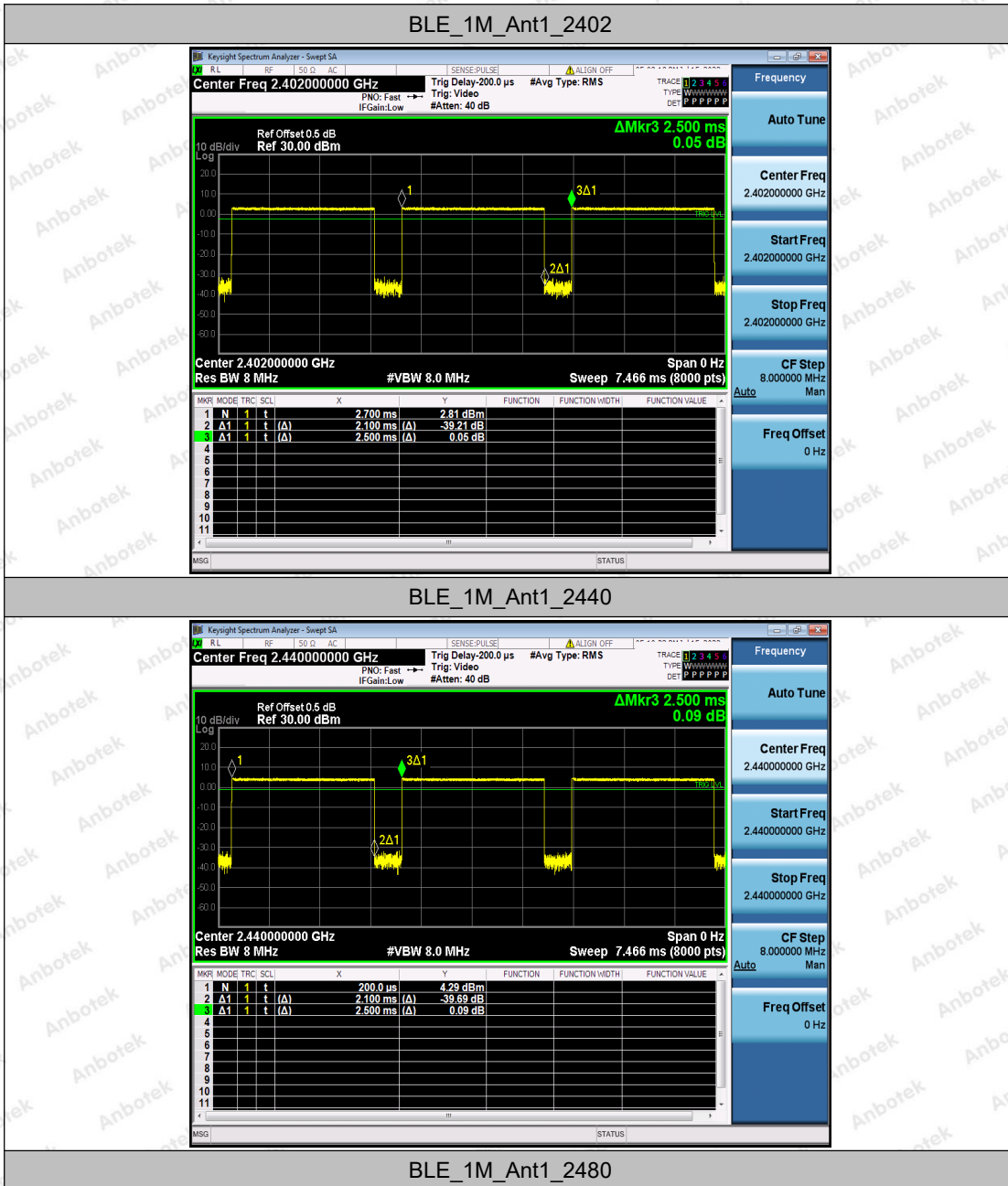
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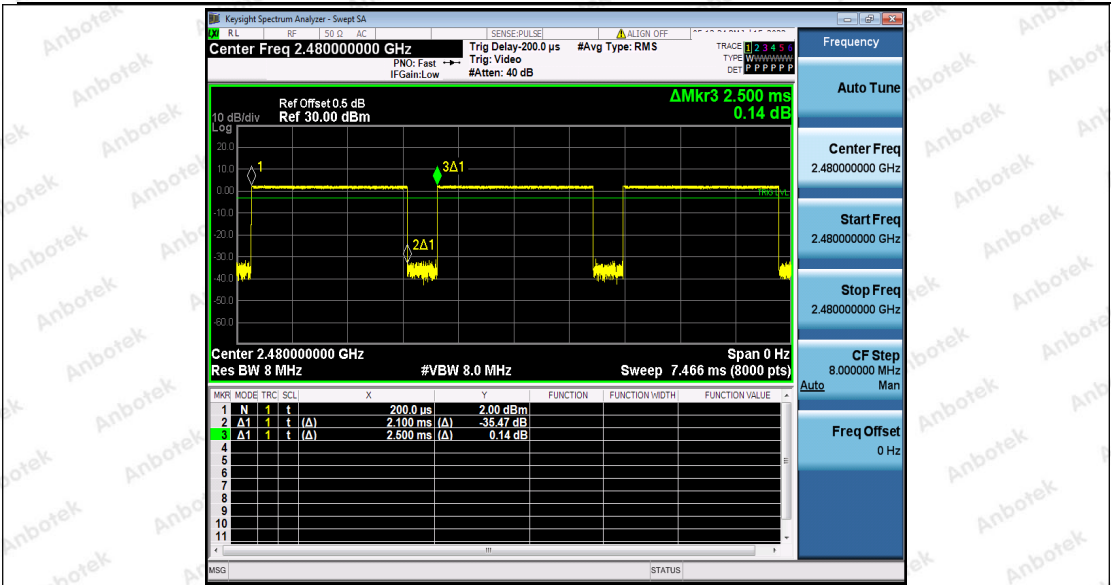
Appendix G: Duty Cycle

Test Result

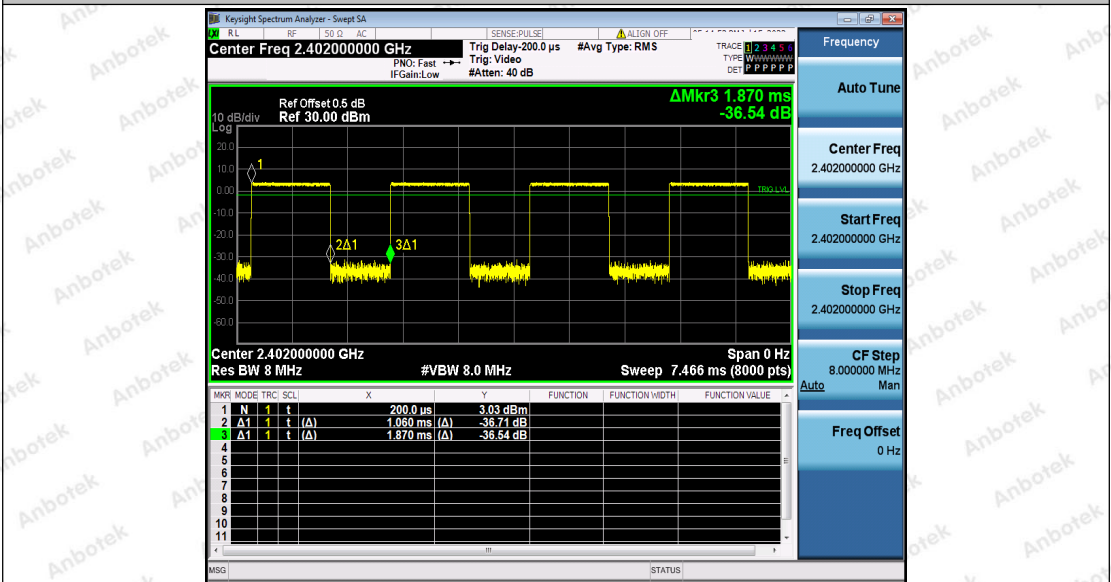
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	2.10	2.50	0.840 0	84.00	0.76	---	PASS
		2440	2.10	2.50	0.840 0	84.00	0.76	---	PASS
		2480	2.10	2.50	0.840 0	84.00	0.76	---	PASS
BLE_2M	Ant1	2402	1.06	1.87	0.566 8	56.68	2.47	---	PASS
		2440	1.06	1.87	0.566 8	56.68	2.47	---	PASS
		2480	1.06	1.88	0.563 8	56.38	2.49	---	PASS

Test Graphs

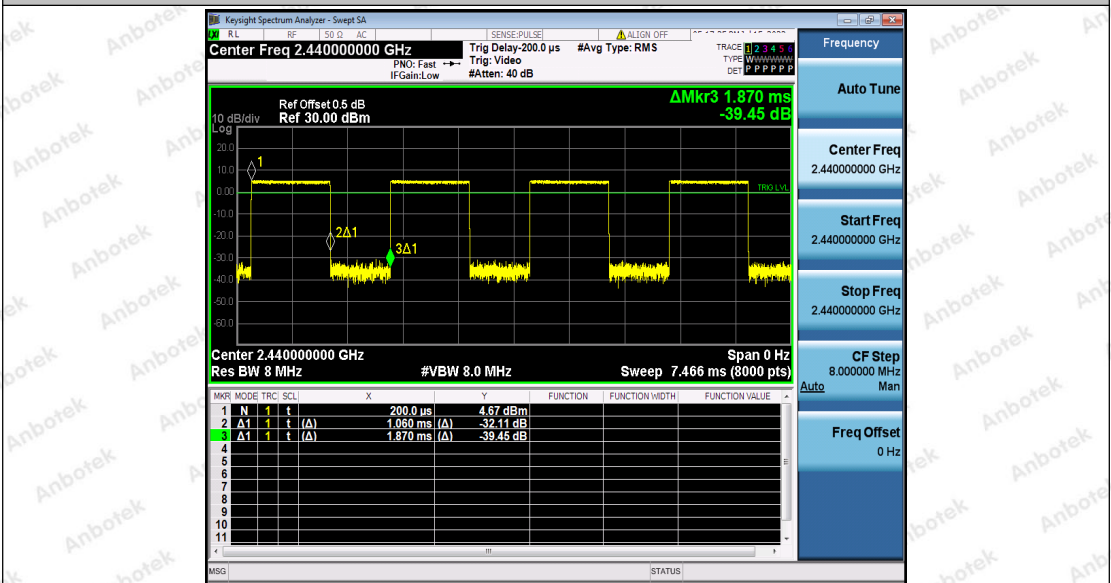




BLE_2M_Ant1_2402



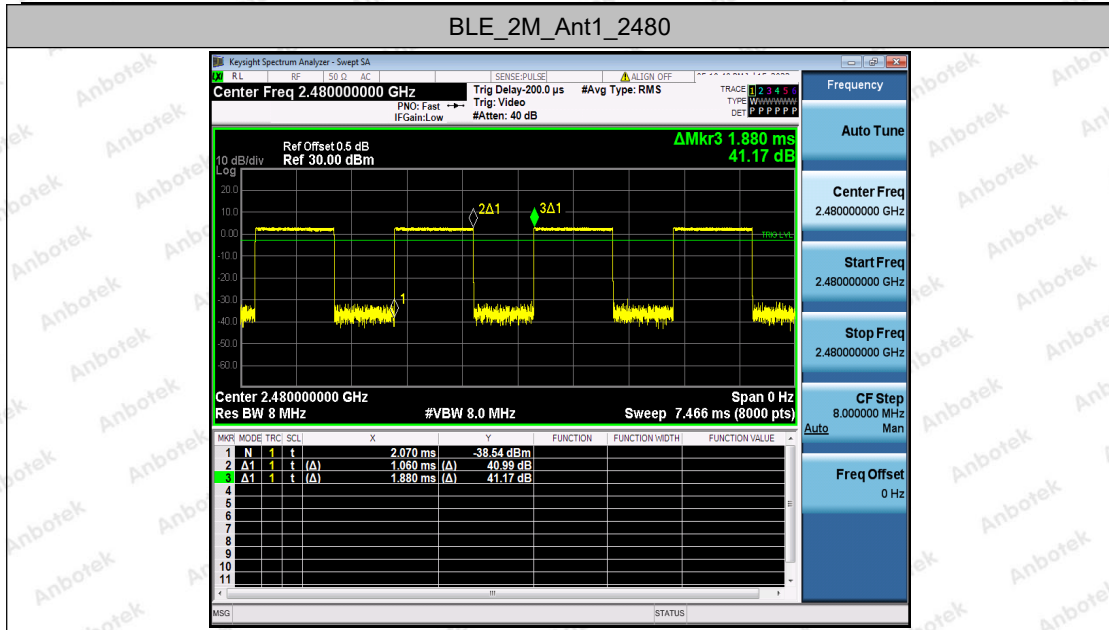
BLE_2M_Ant1_2440



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