

Appendix Test Data

Report No.:	18220WC20154601	Test Sample No.:	1-2-2
Start Test Date:	2022.7.13	Finish Test Date:	2022.7.22
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3°C	Relative Humidity:	57.1 %
Pressure:	1012 hPa		

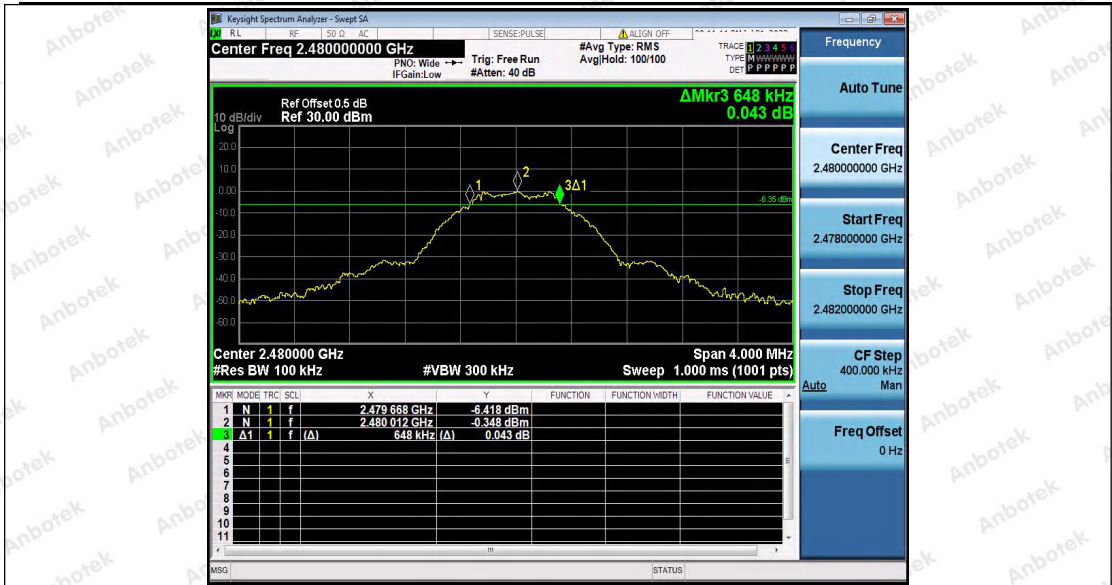
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.692	2401.656	2402.348	≥0.5	PASS
		2440	0.680	2439.656	2440.336	≥0.5	PASS
		2480	0.648	2479.668	2480.316	≥0.5	PASS
BLE_2M	Ant1	2402	1.132	2401.436	2402.568	≥0.5	PASS
		2440	1.172	2439.384	2440.556	≥0.5	PASS
		2480	1.232	2479.352	2480.584	≥0.5	PASS

Test Graphs





BLE_2M_Ant1_2402



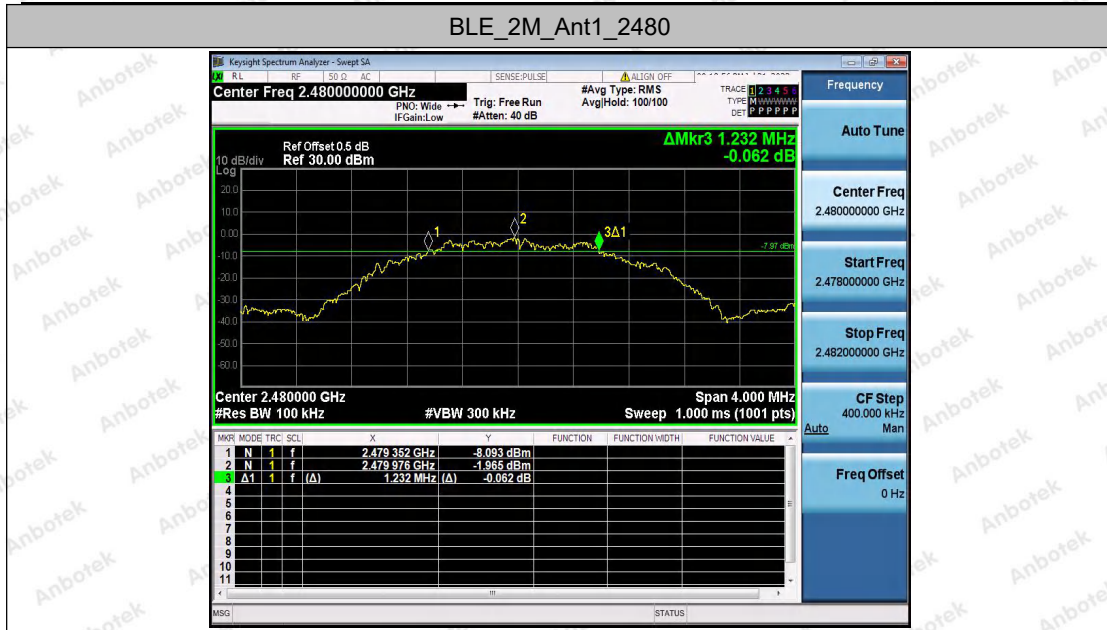
BLE_2M_Ant1_2440



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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	1.0374	2401.489	2402.527	---	PASS
		2440	1.0316	2439.495	2440.527	---	PASS
		2480	1.0321	2479.490	2480.522	---	PASS
BLE_2M	Ant1	2402	2.0792	2400.980	2403.059	---	PASS
		2440	2.0912	2438.970	2441.061	---	PASS
		2480	2.0911	2478.975	2481.066	---	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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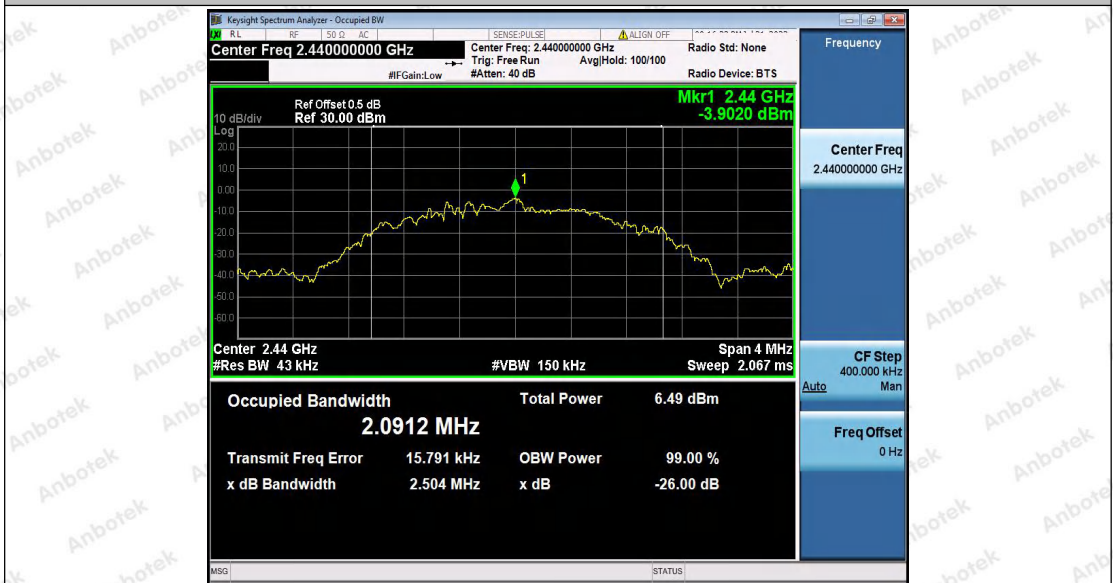
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.14	≤30	PASS
		2440	0.84	≤30	PASS
		2480	0.52	≤30	PASS
BLE_2M	Ant1	2402	1.19	≤30	PASS
		2440	0.85	≤30	PASS
		2480	0.61	≤30	PASS

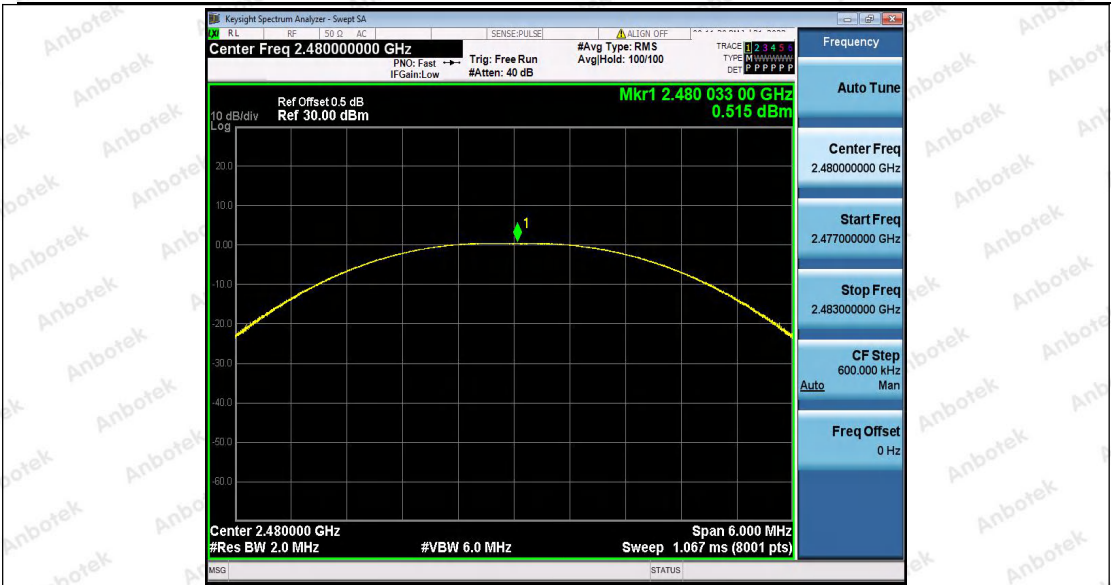
Test Graphs



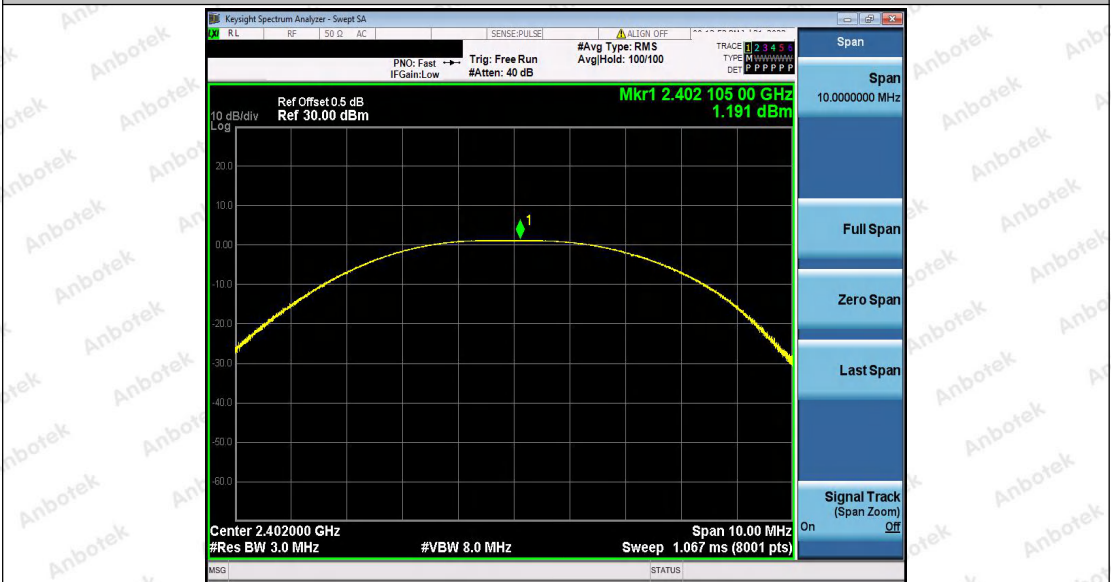
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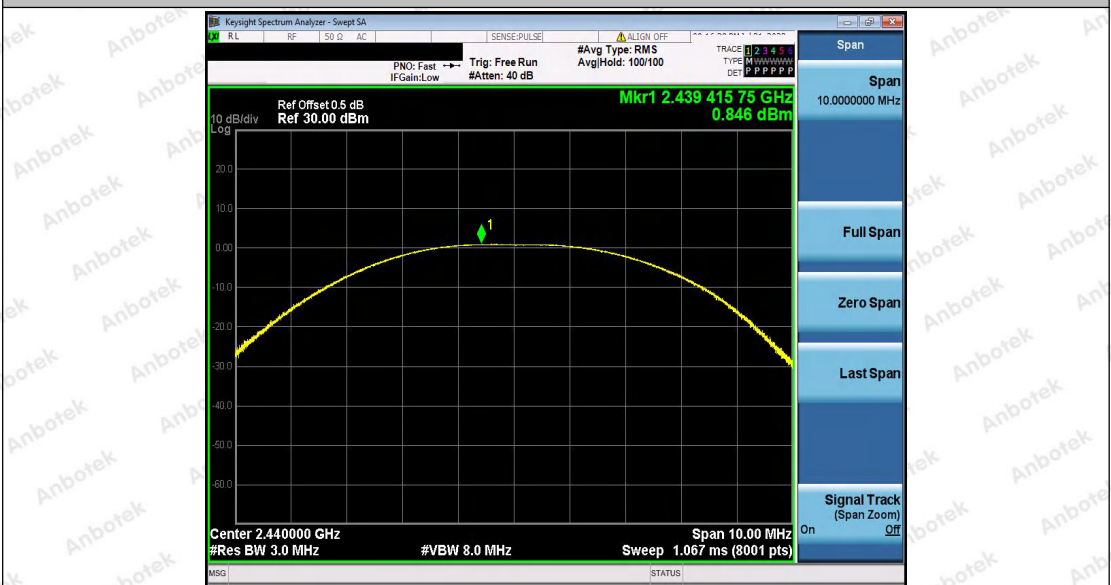
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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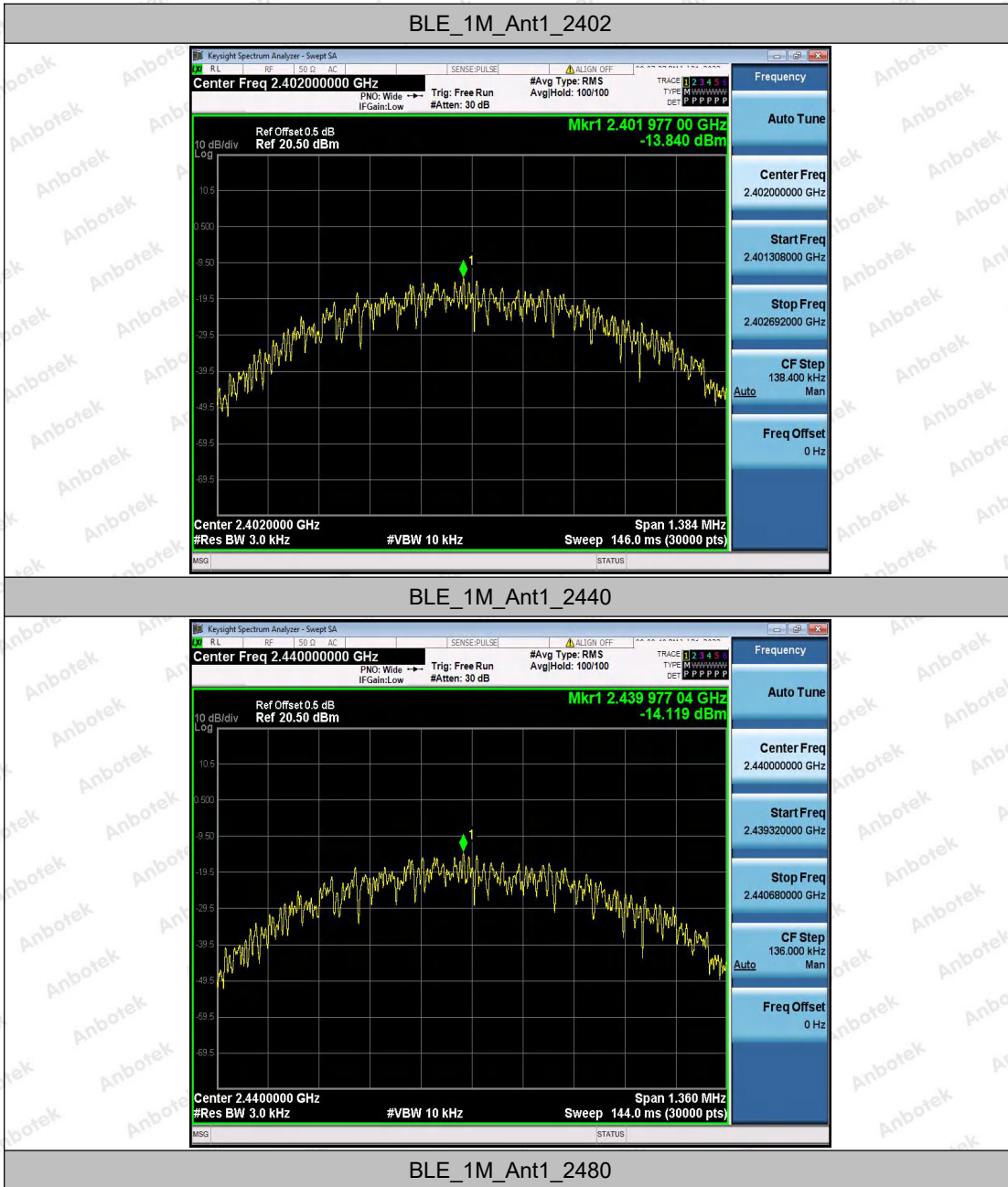
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.84	≤8	PASS
		2440	-14.12	≤8	PASS
		2480	-14.46	≤8	PASS
BLE_2M	Ant1	2402	-15.14	≤8	PASS
		2440	-15.44	≤8	PASS
		2480	-15.79	≤8	PASS

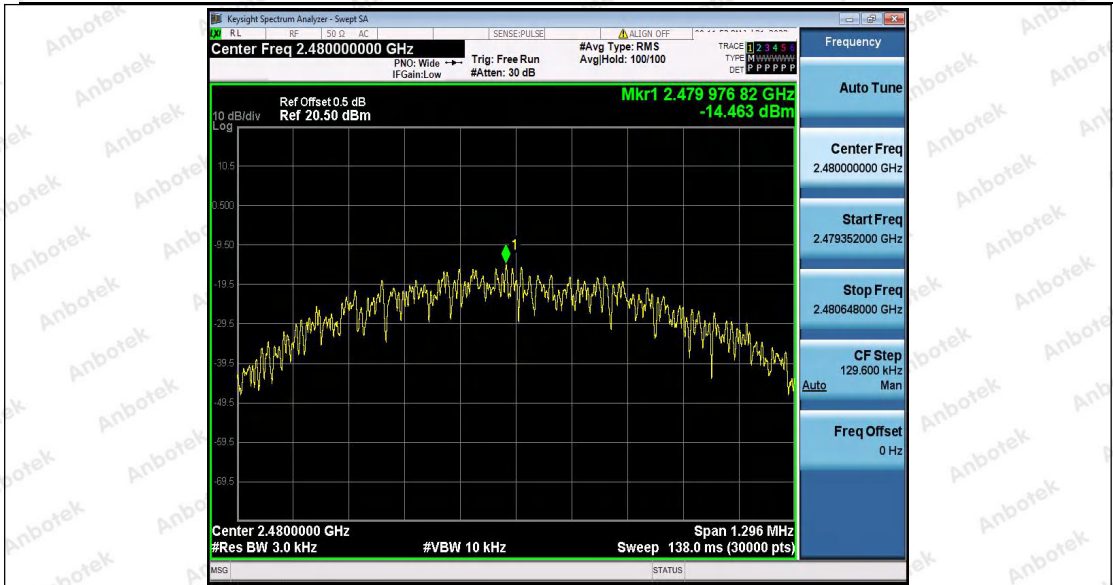
Test Graphs



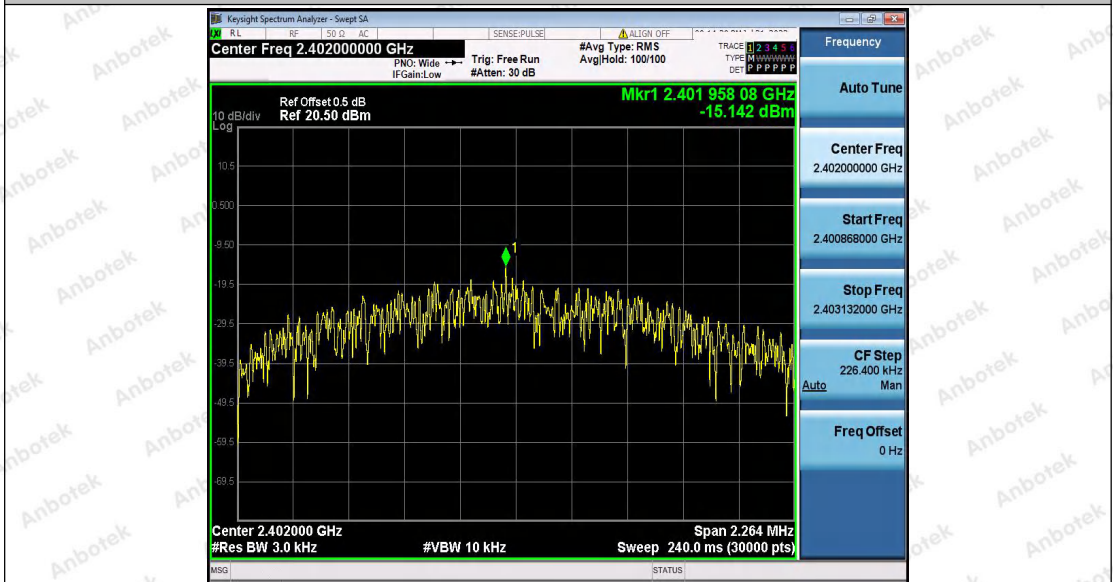
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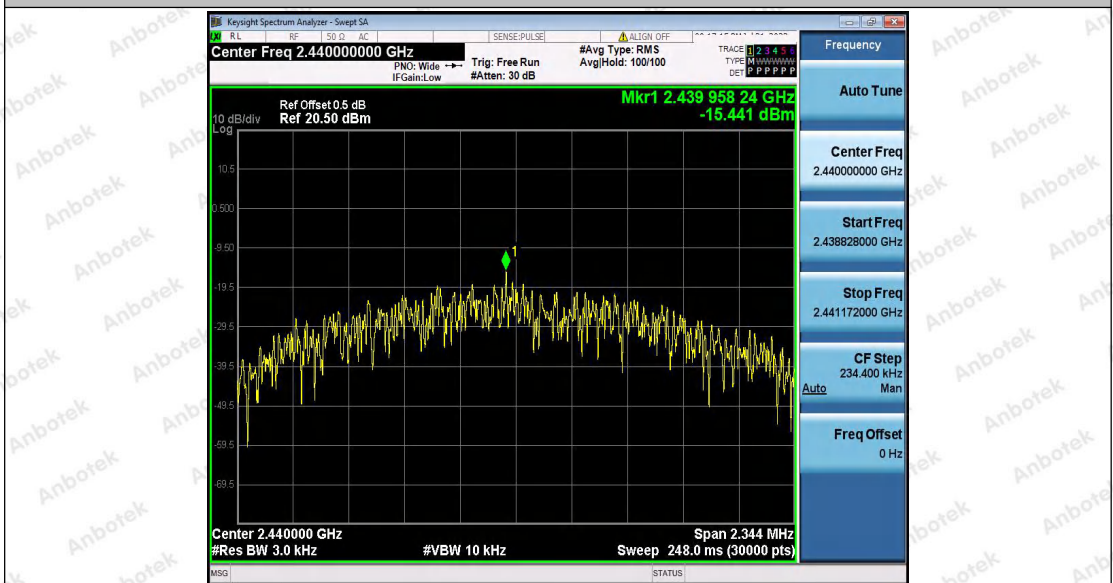
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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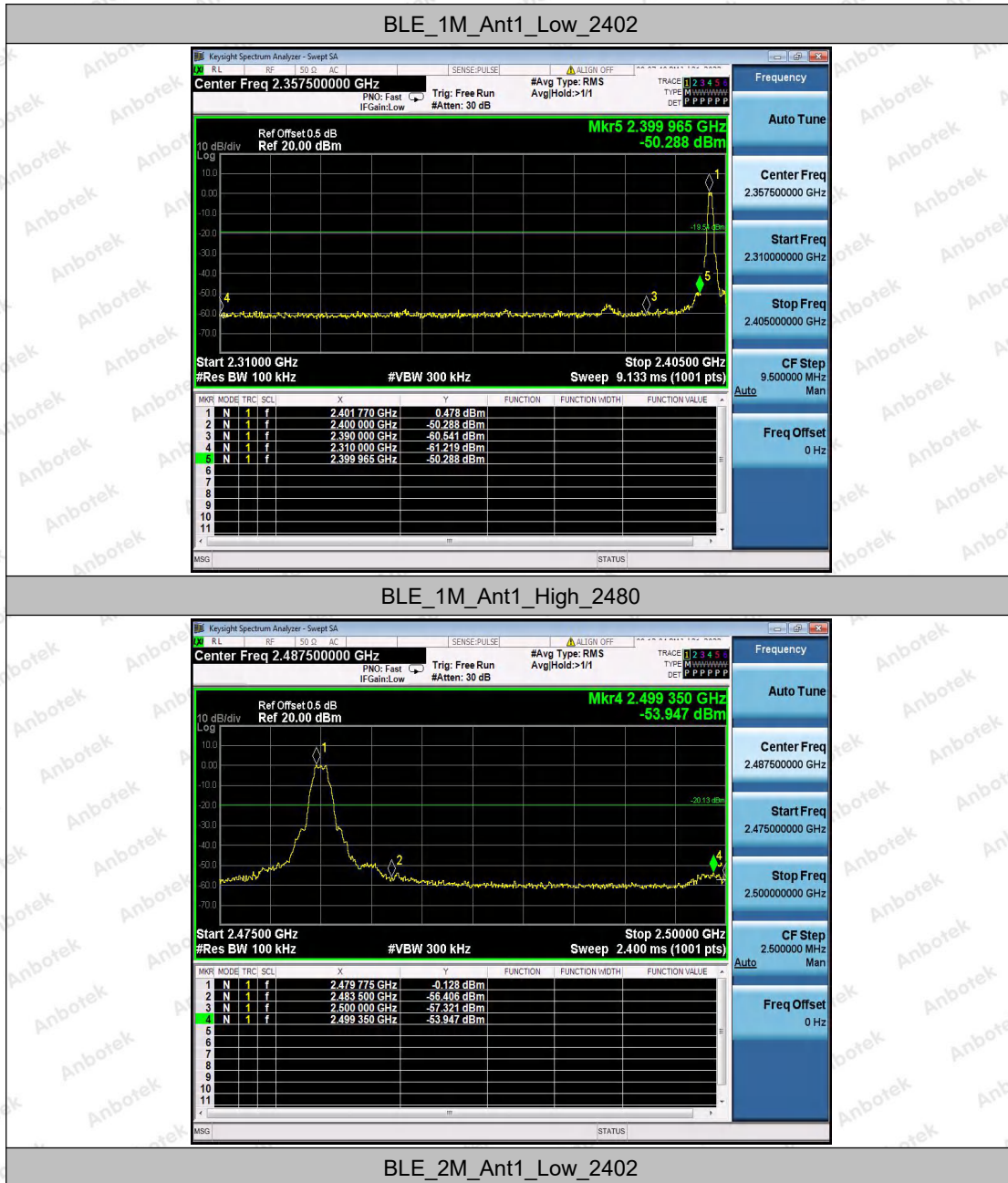
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.46	-50.29	≤-19.54	PASS
		High	2480	-0.13	-53.95	≤-20.13	PASS
BLE_2M	Ant1	Low	2402	0.01	-31.49	≤-20	PASS
		High	2480	-0.64	-51.44	≤-20.64	PASS

Test Graphs

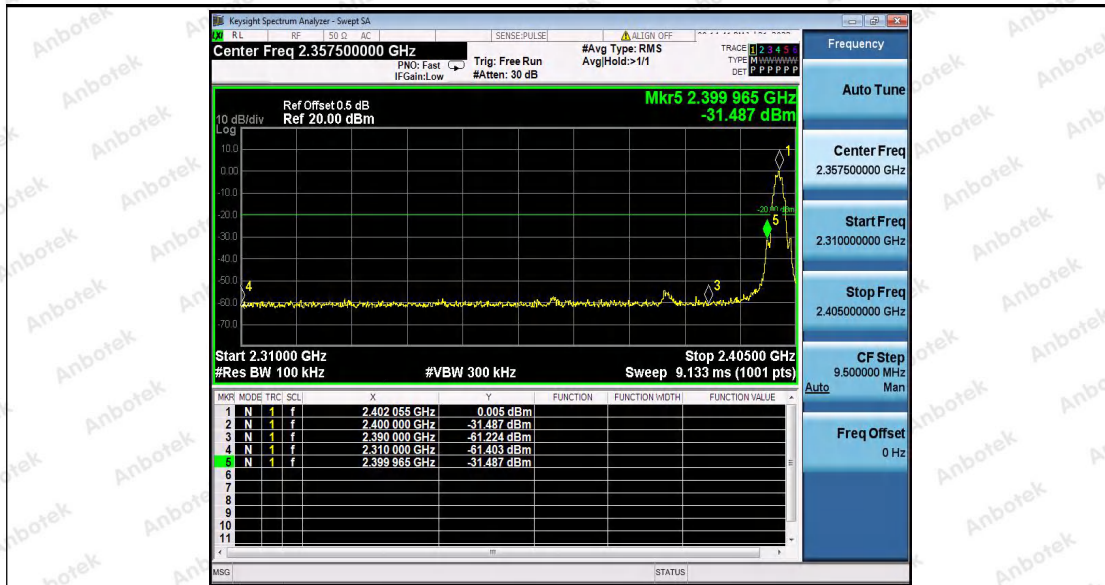


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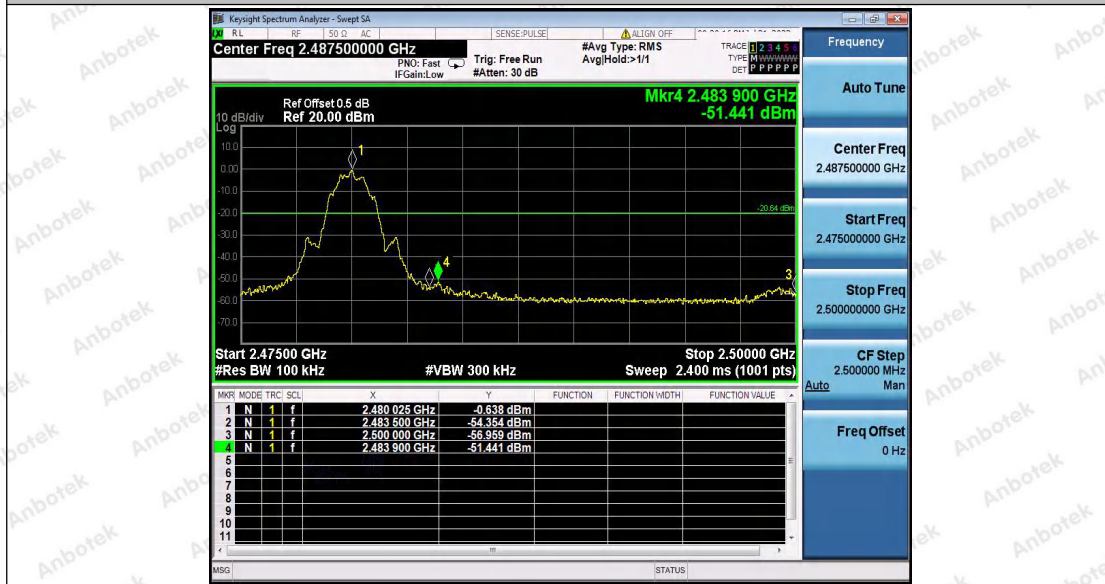
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BLE_2M_Ant1_High_2480



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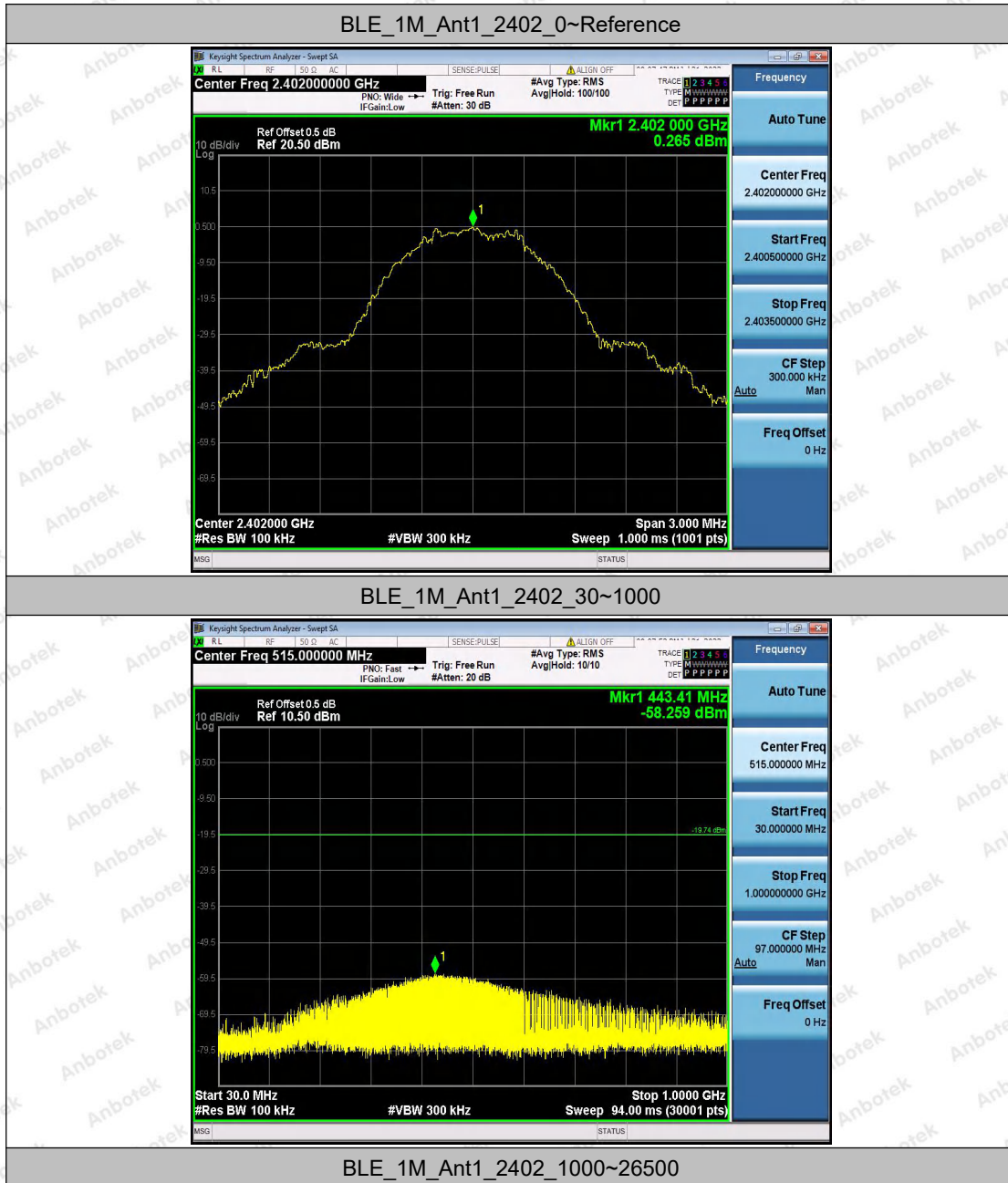
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.27	0.27	---	PASS
			30~1000	0.27	-58.26	≤-19.74	PASS
			1000~26500	0.27	-53.17	≤-19.74	PASS
		2440	Reference	0.03	0.03	---	PASS
			30~1000	0.03	-58.16	≤-19.97	PASS
			1000~26500	0.03	-53.33	≤-19.97	PASS
		2480	Reference	-0.29	-0.29	---	PASS
			30~1000	-0.29	-58.07	≤-20.29	PASS
			1000~26500	-0.29	-54.15	≤-20.29	PASS
BLE_2M	Ant1	2402	Reference	0.14	0.14	---	PASS
			30~1000	0.14	-58.17	≤-19.86	PASS
			1000~26500	0.14	-53.49	≤-19.86	PASS
		2440	Reference	-0.14	-0.14	---	PASS
			30~1000	-0.14	-58.13	≤-20.14	PASS
			1000~26500	-0.14	-54.01	≤-20.14	PASS
		2480	Reference	-0.47	-0.47	---	PASS
			30~1000	-0.47	-57.83	≤-20.47	PASS
			1000~26500	-0.47	-53.02	≤-20.47	PASS

Test Graphs

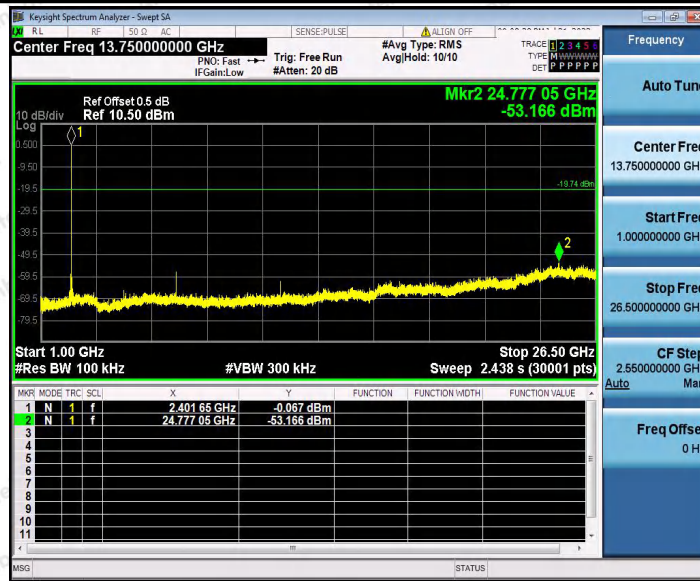


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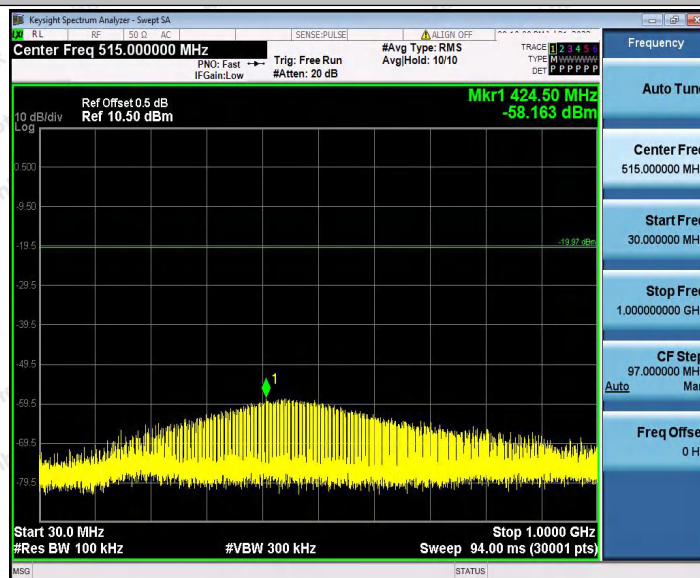
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



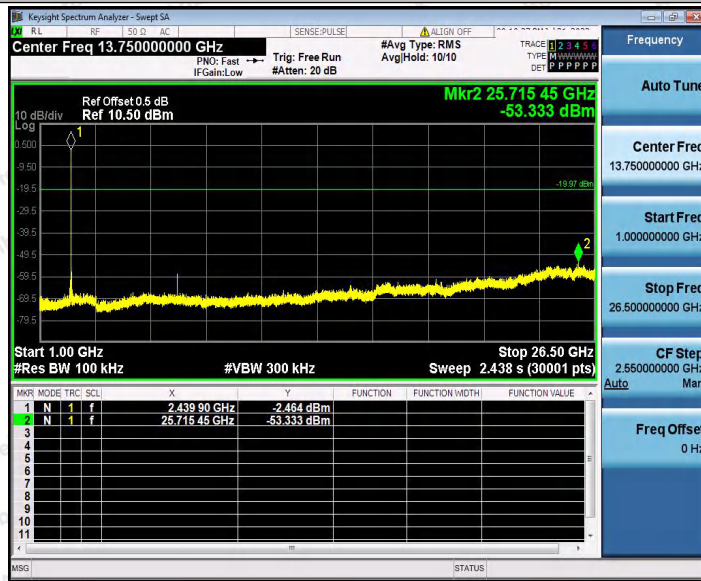
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



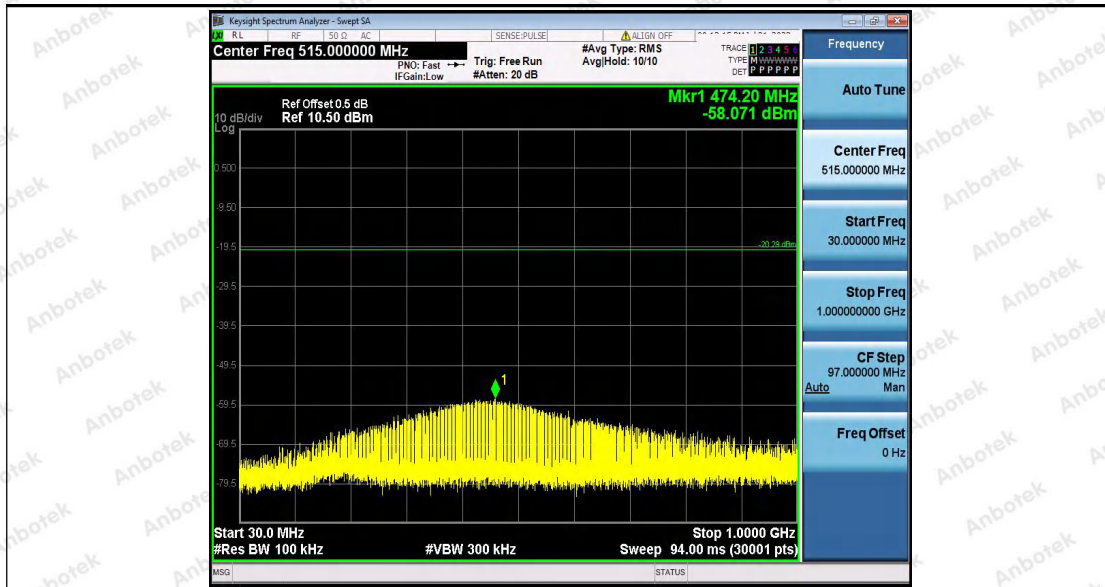
BLE_1M_Ant1_2480_30~1000

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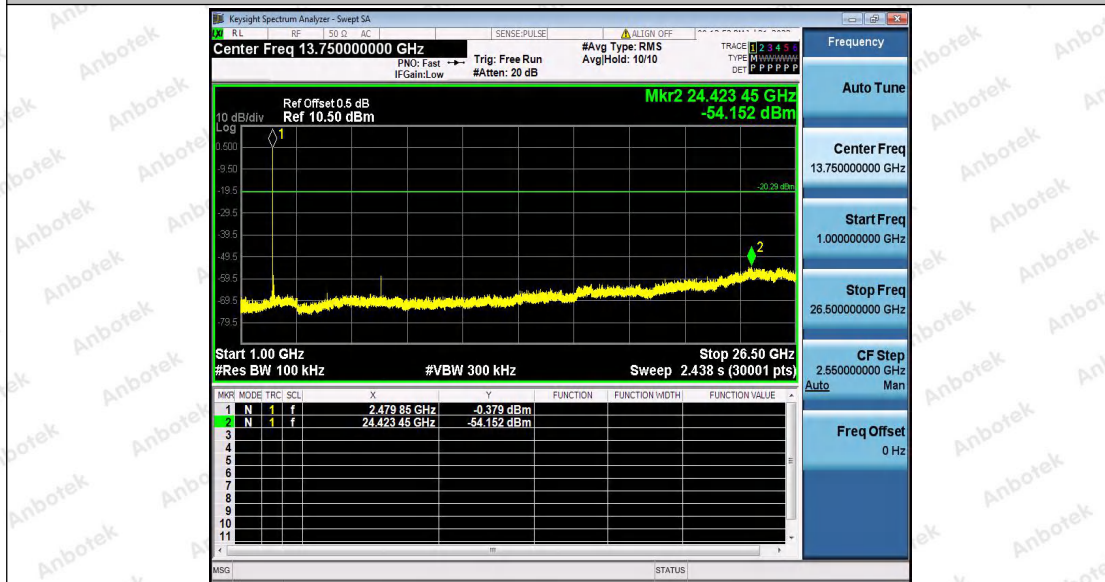
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BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference

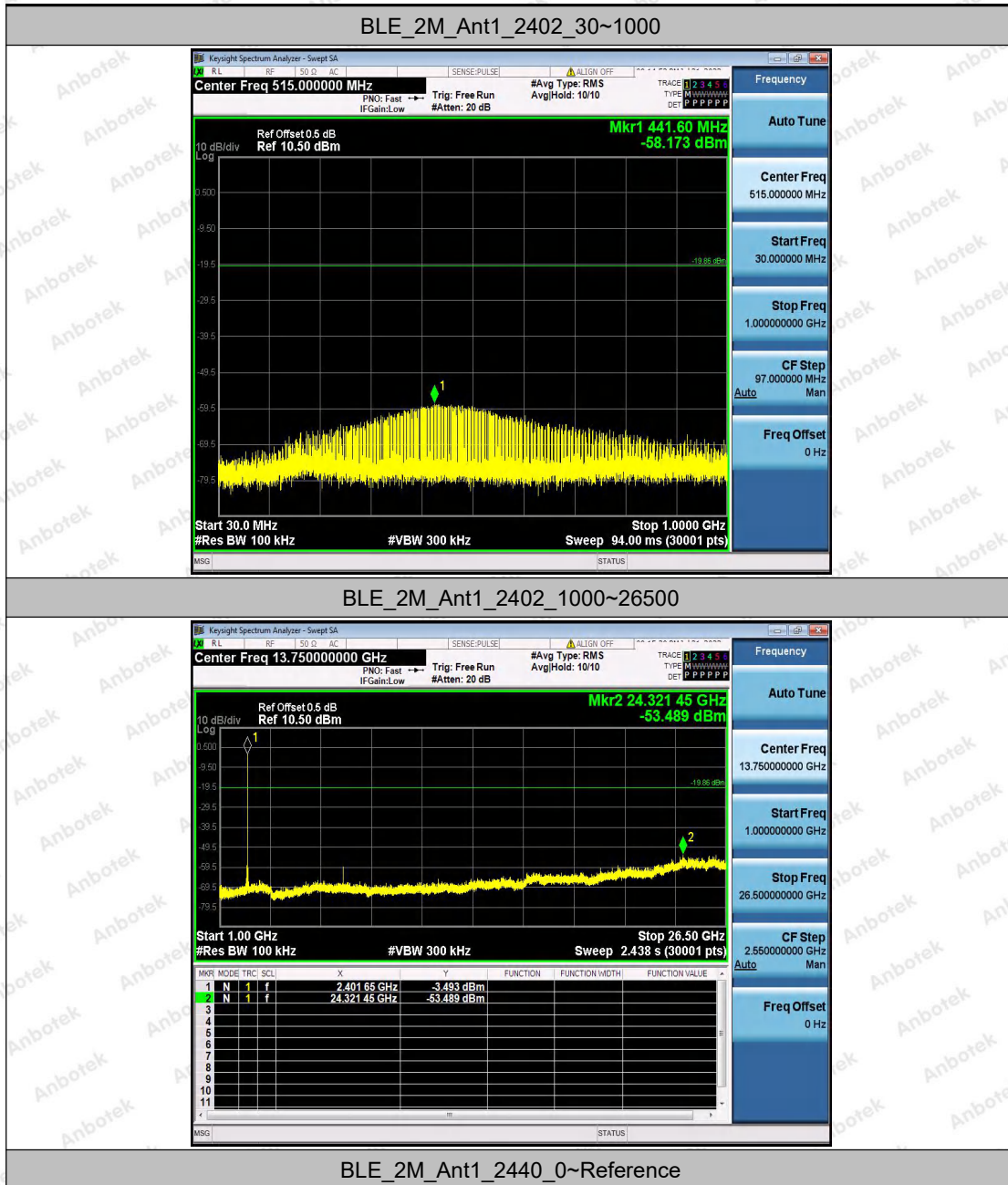


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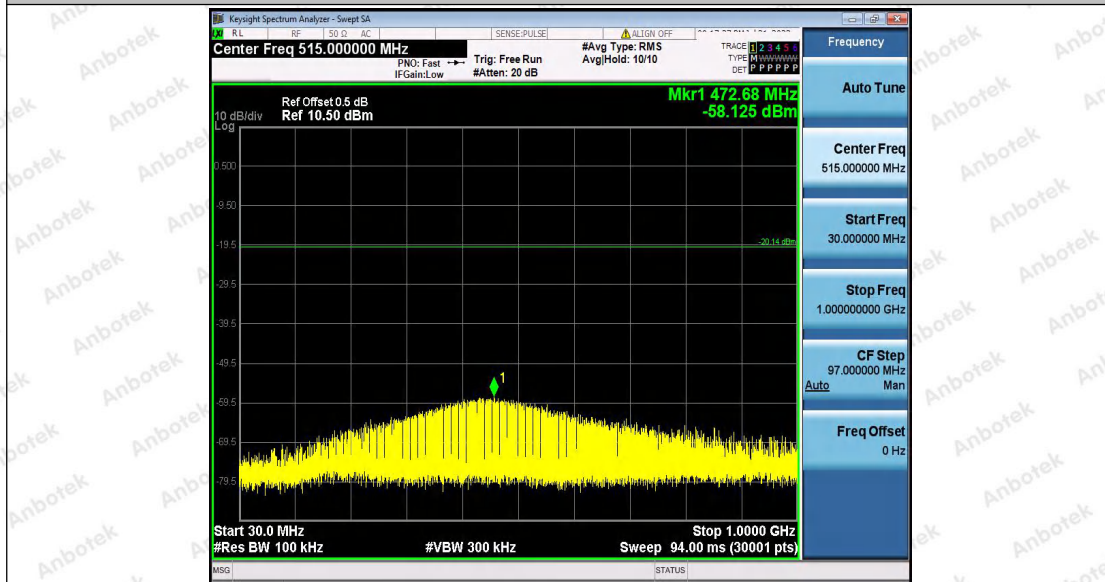
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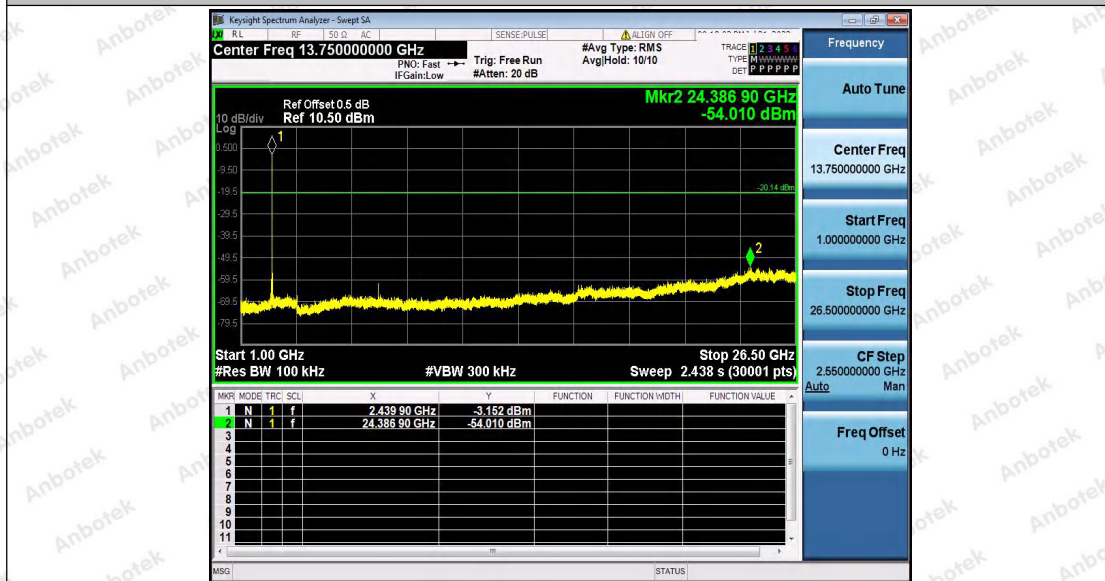
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BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

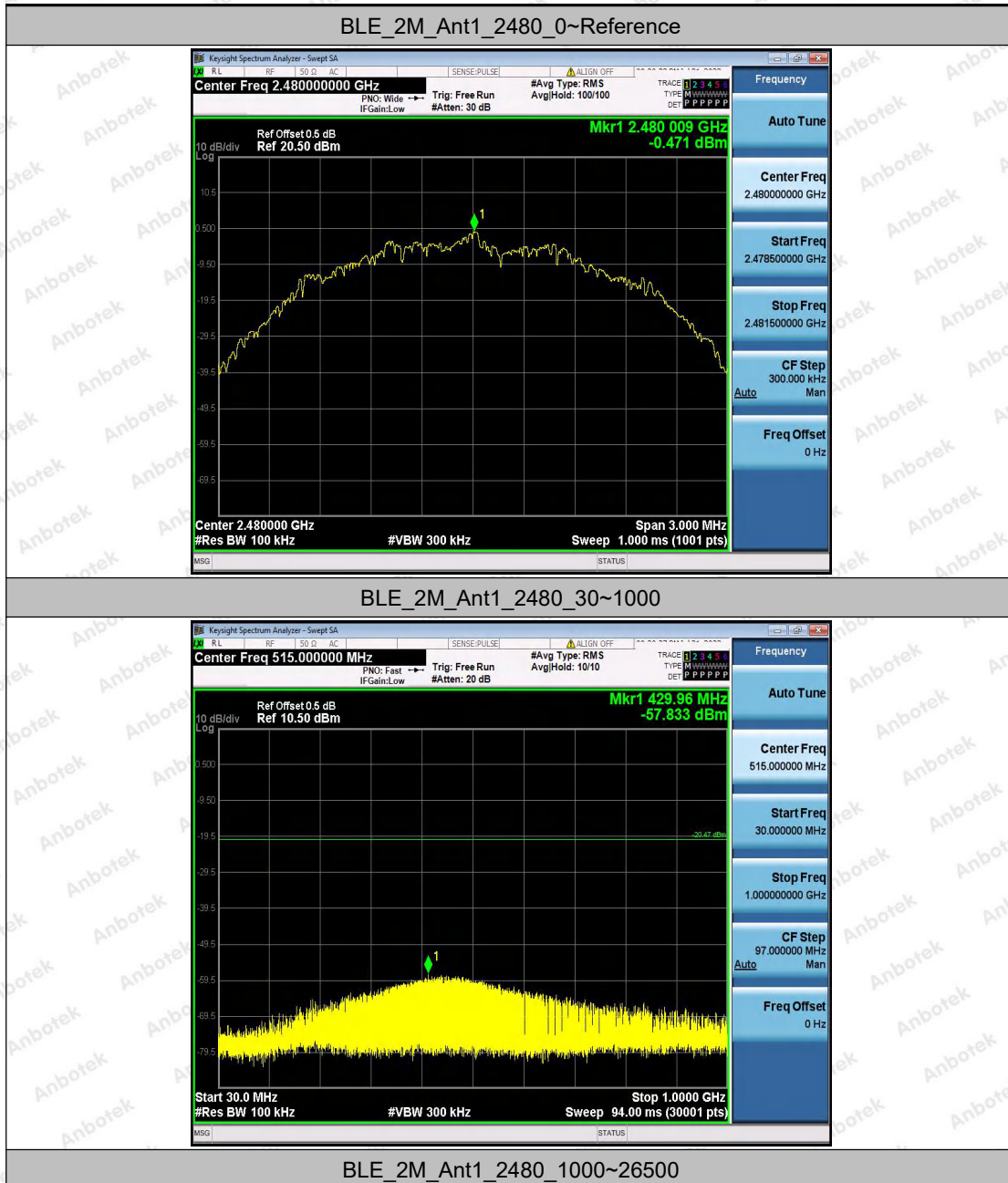


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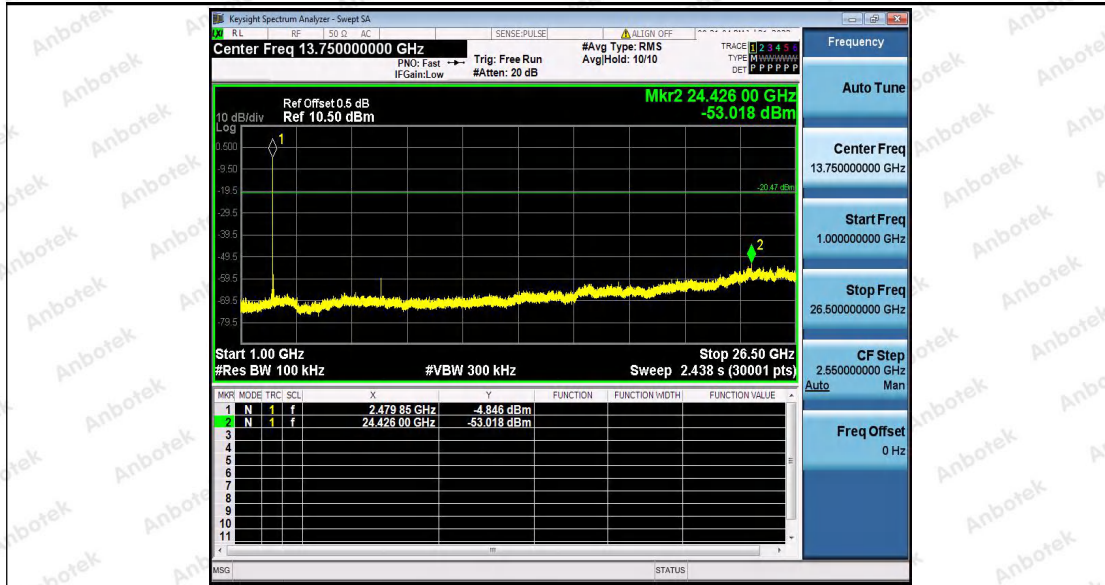


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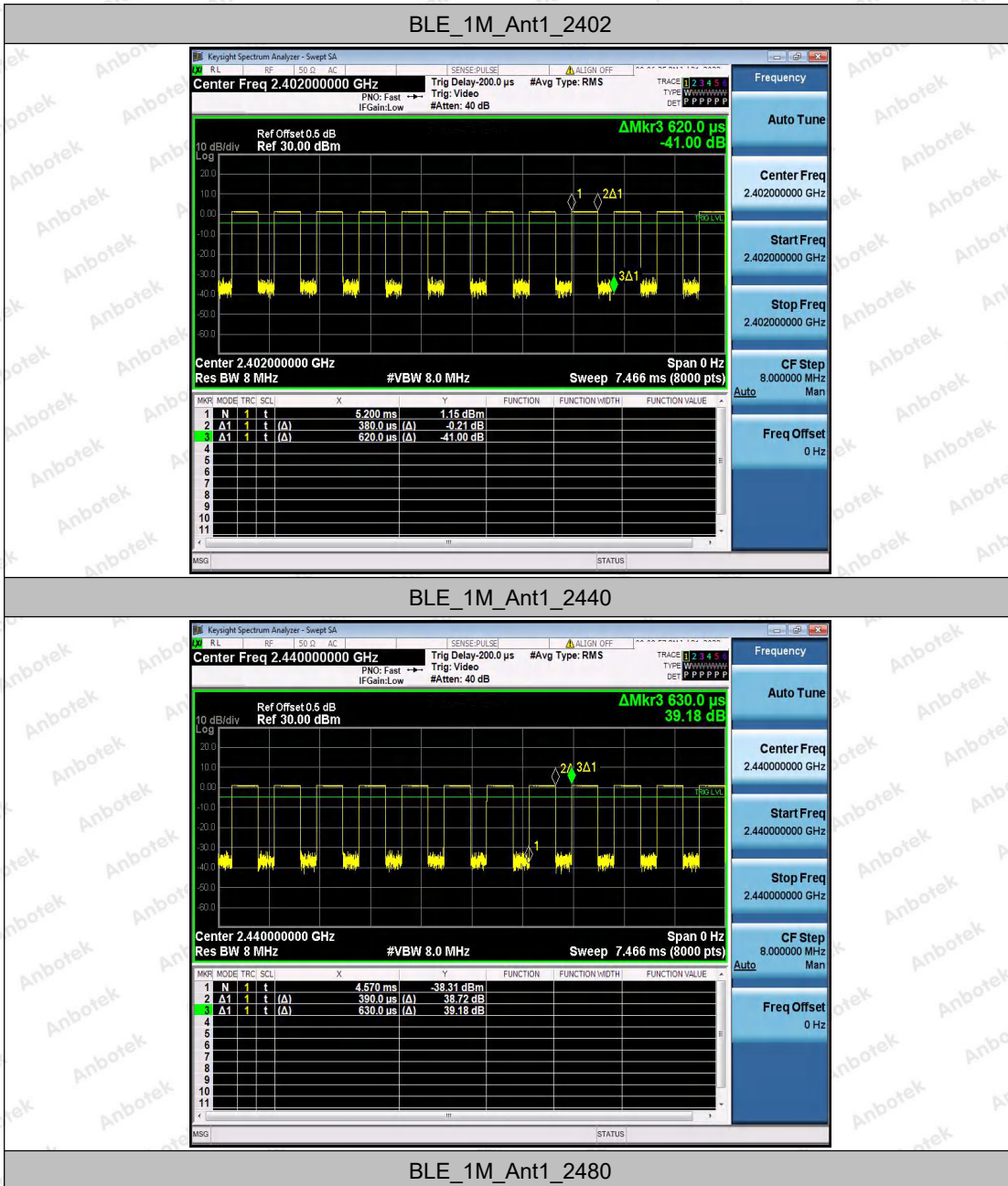
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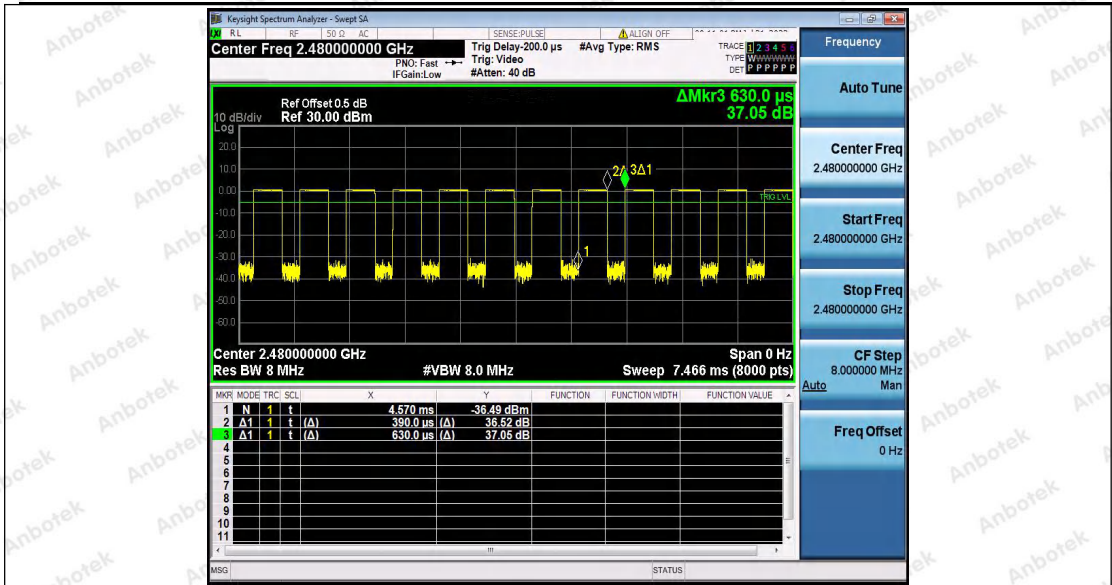
Appendix G: Duty Cycle

Test Result

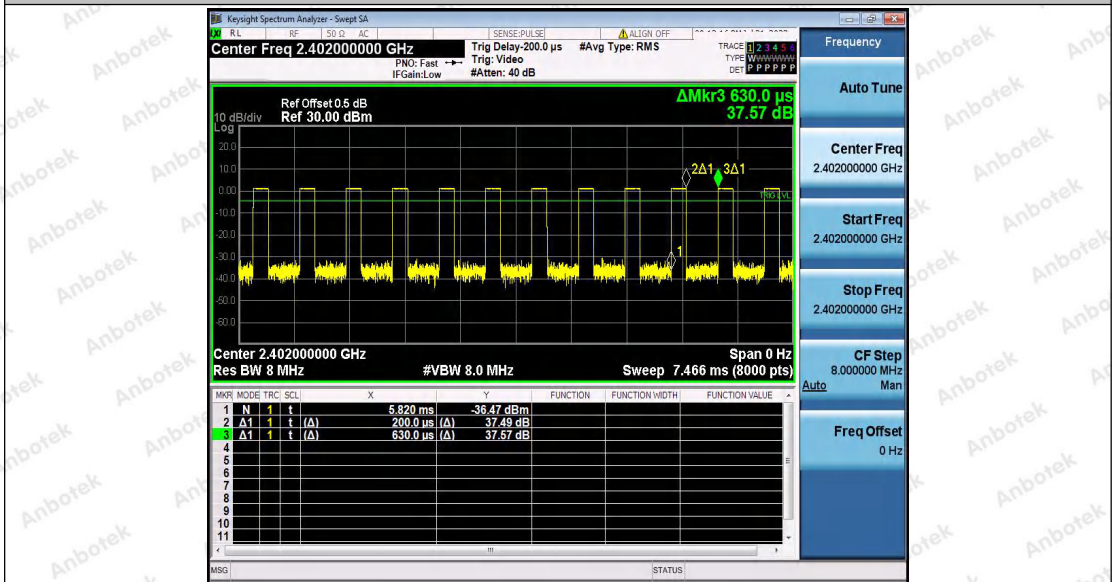
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.38	0.62	0.6129	61.29	2.13	---	PASS
		2440	0.39	0.63	0.6190	61.90	2.08	---	PASS
		2480	0.39	0.63	0.6190	61.90	2.08	---	PASS
BLE_2M	Ant1	2402	0.20	0.63	0.3175	31.75	4.98	---	PASS
		2440	0.20	0.62	0.3226	32.26	4.91	---	PASS
		2480	0.20	0.62	0.3226	32.26	4.91	---	PASS

Test Graphs

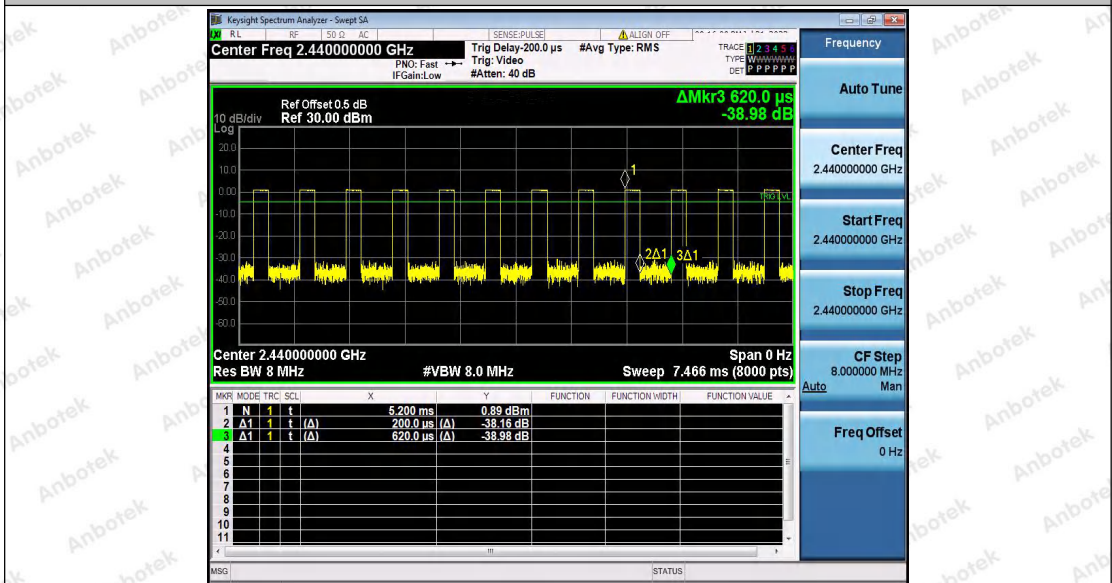




BLE_2M_Ant1_2402



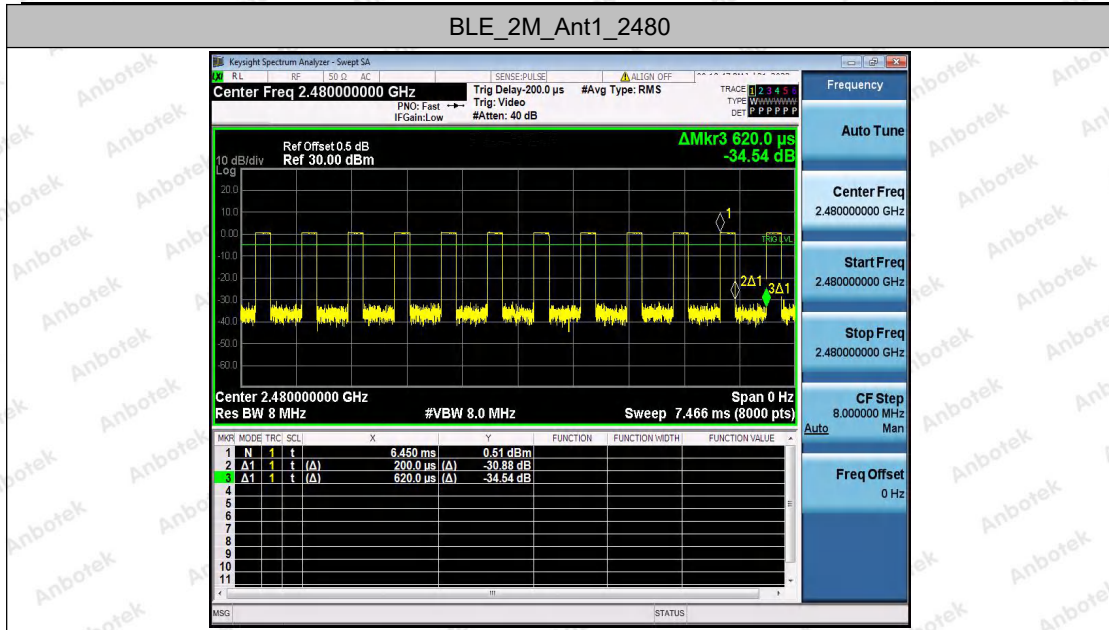
BLE_2M_Ant1_2440



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