

Appendix Test Data

Report No.:	18220WC30268901	Test Sample No.:	1-2-2
Start Test Date:	2023.12.24	Finish Test Date:	2023.12.25
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.4℃	Relative Humidity:	43%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.672	2401.728	2402.400	0.5	PASS
		2440	0.664	2439.732	2440.396	0.5	PASS
		2480	0.660	2479.736	2480.396	0.5	PASS
BLE_2M	Ant1	2402	1.100	2401.500	2402.600	0.5	PASS
		2440	1.108	2439.496	2440.604	0.5	PASS
		2480	1.132	2479.496	2480.628	0.5	PASS

Test Graphs



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BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



BLE_2M_Ant1_2402

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BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	0.98483	2401.5706	2402.5554
		2440	0.98418	2439.5787	2440.5629
		2480	0.99845	2479.5636	2480.5620
BLE_2M	Ant1	2402	1.9352	2401.1003	2403.0355
		2440	1.9528	2439.0967	2441.0495
		2480	1.9689	2479.0910	2481.0599

Test Graphs



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BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.91	≤30	PASS
		2440	4.18	≤30	PASS
		2480	4.08	≤30	PASS
BLE_2M	Ant1	2402	3.93	≤30	PASS
		2440	4.20	≤30	PASS
		2480	4.14	≤30	PASS

Test Graphs Peak



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BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.98	≤8.00	PASS
		2440	-10.93	≤8.00	PASS
		2480	-10.93	≤8.00	PASS
BLE_2M	Ant1	2402	-14.13	≤8.00	PASS
		2440	-14.36	≤8.00	PASS
		2480	-14.45	≤8.00	PASS

Test Graphs



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BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

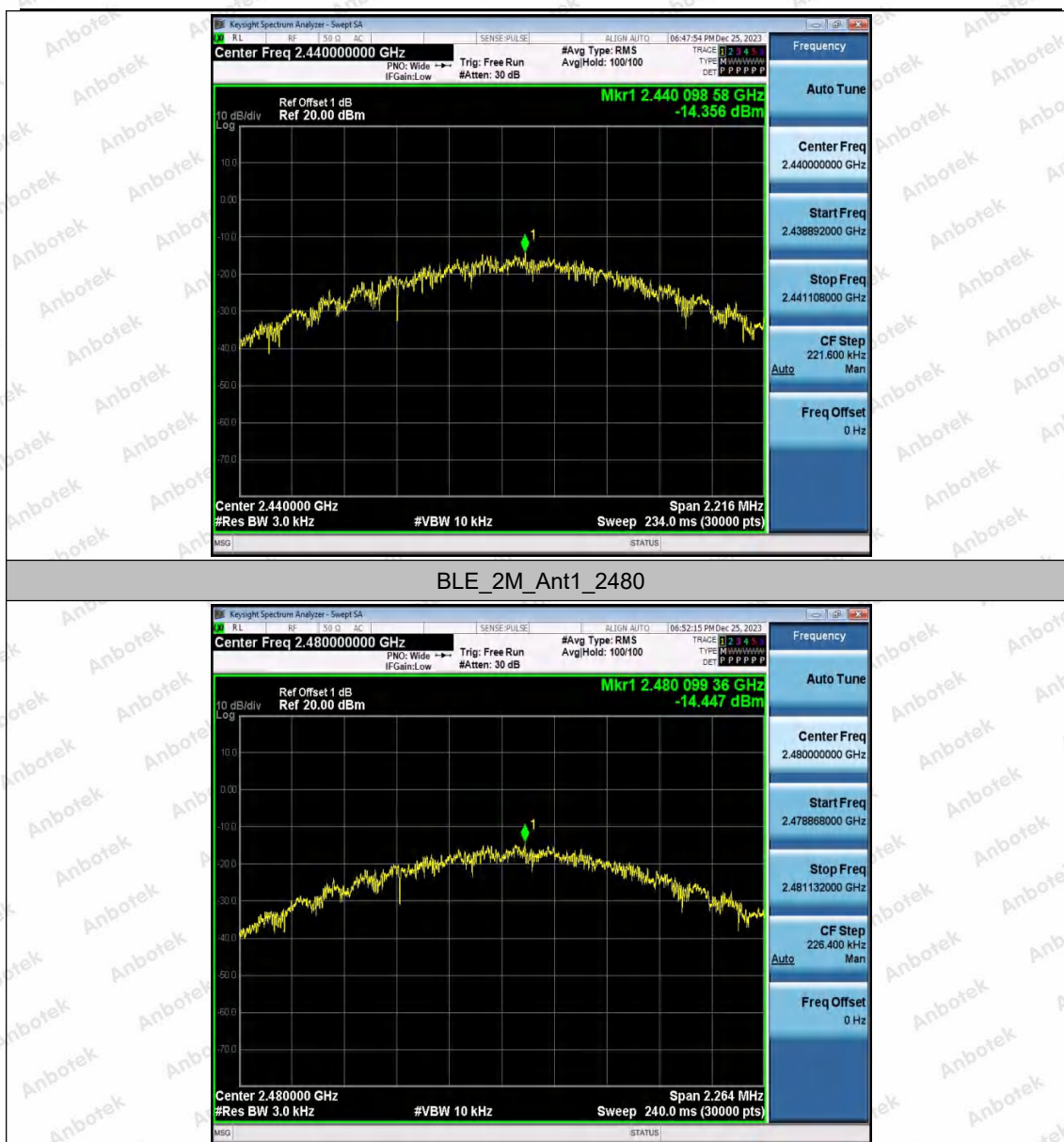
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.91	-48.86	≤-17.09	PASS
		High	2480	3.66	-52.66	≤-16.35	PASS
BLE_2M	Ant1	Low	2402	2.27	-36.56	≤-17.73	PASS
		High	2480	2.31	-46.15	≤-17.7	PASS

Test Graphs



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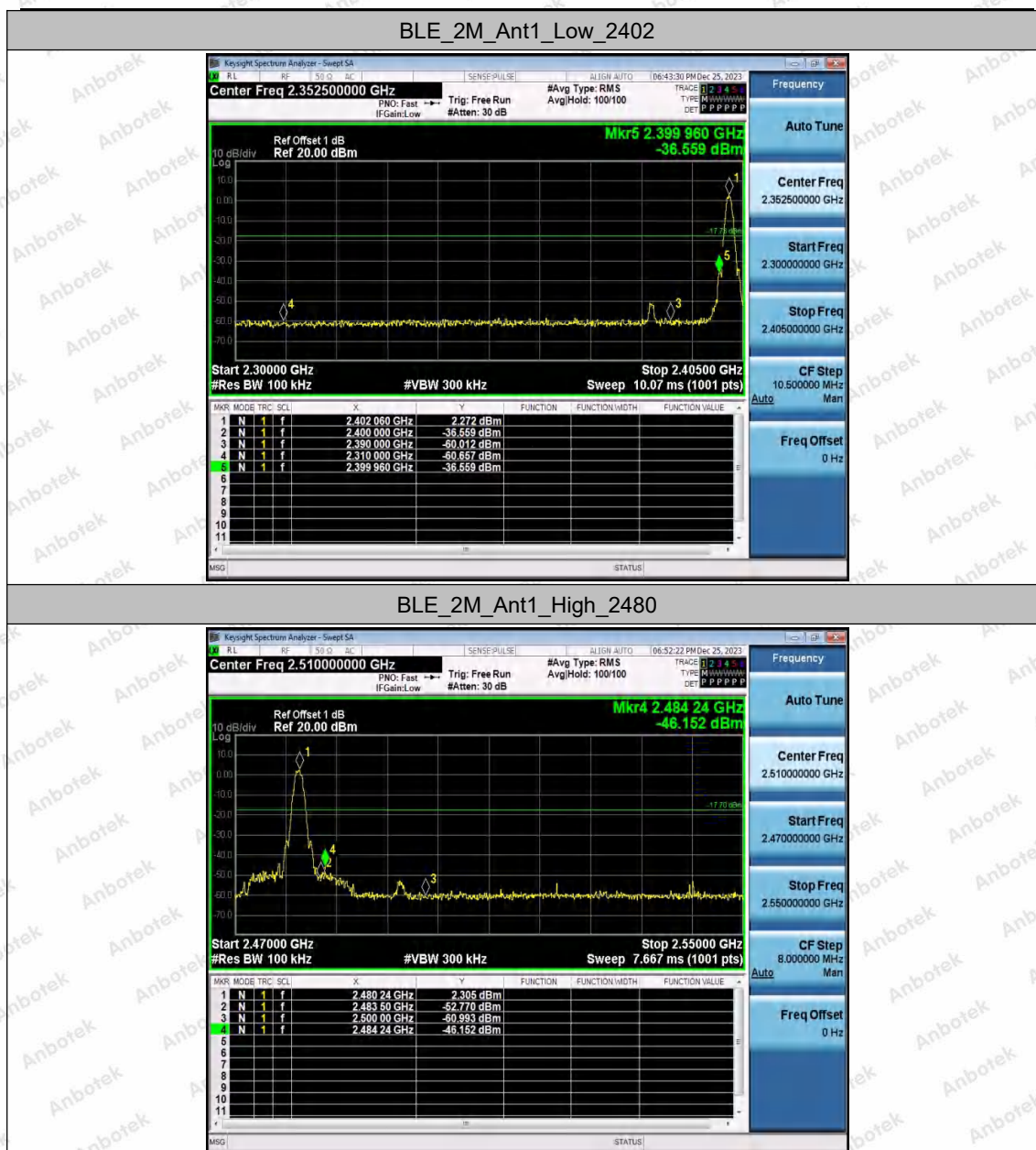


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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.94	2.94	---	PASS
			30~1000	2.94	-67.26	≤-17.06	PASS
			1000~26500	2.94	-27.62	≤-17.06	PASS
		2440	Reference	3.24	3.24	---	PASS
			30~1000	3.24	-66.69	≤-16.76	PASS
			1000~26500	3.24	-28.17	≤-16.76	PASS
		2480	Reference	2.71	2.71	---	PASS
			30~1000	2.71	-28.37	≤-17.29	PASS
			1000~26500	2.71	-31.58	≤-17.29	PASS
BLE_2M	Ant1	2402	Reference	1.02	1.02	---	PASS
			30~1000	1.02	-24.18	≤-18.98	PASS
			1000~26500	1.02	-31.28	≤-18.98	PASS
		2440	Reference	1.34	1.34	---	PASS
			30~1000	1.34	-27.75	≤-18.66	PASS
			1000~26500	1.34	-32.11	≤-18.66	PASS
		2480	Reference	2.00	2.00	---	PASS
			30~1000	2.00	-27.05	≤-18	PASS
			1000~26500	2.00	-34.81	≤-18	PASS



Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

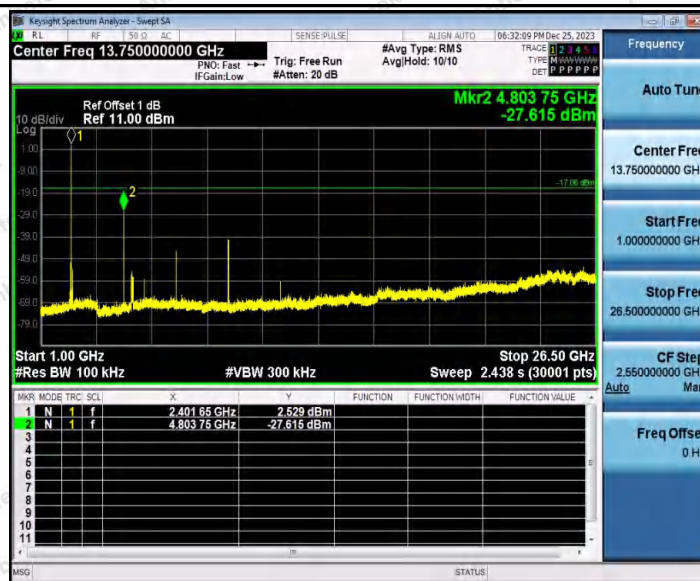
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



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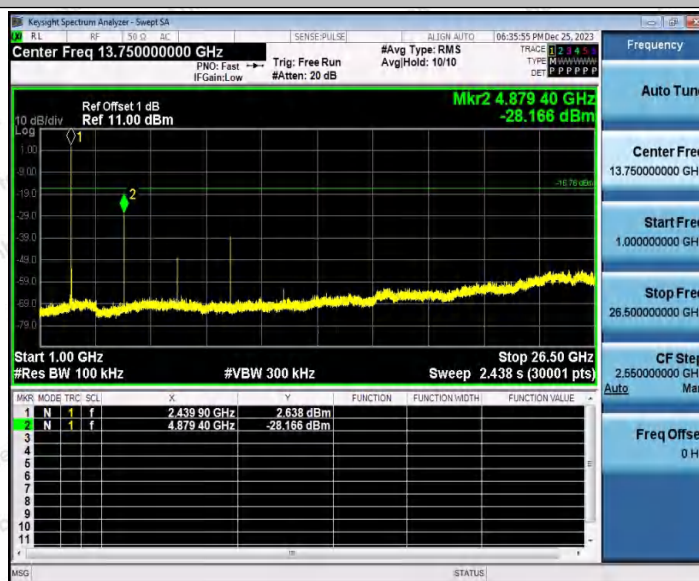
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

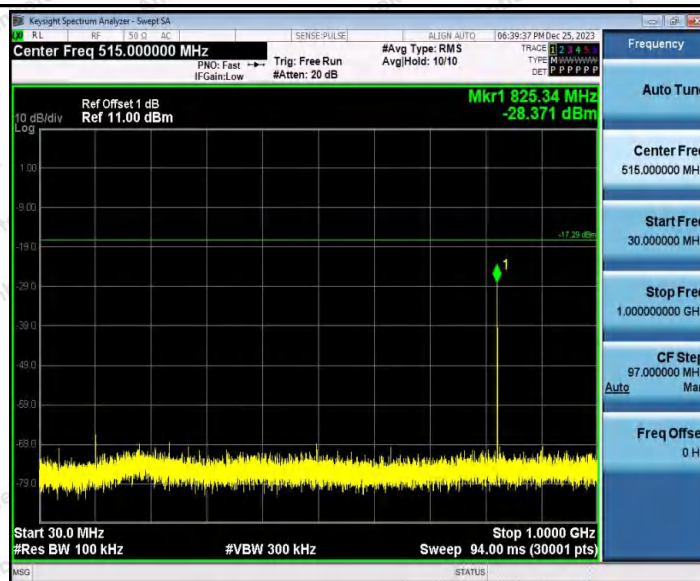
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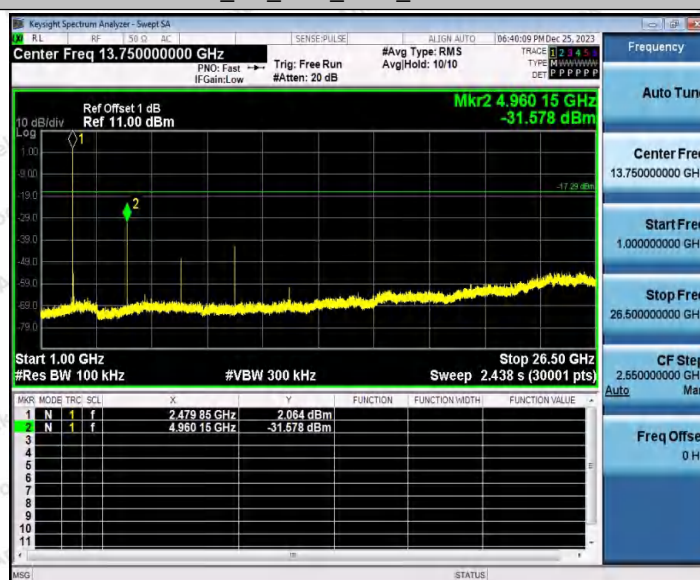


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BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference



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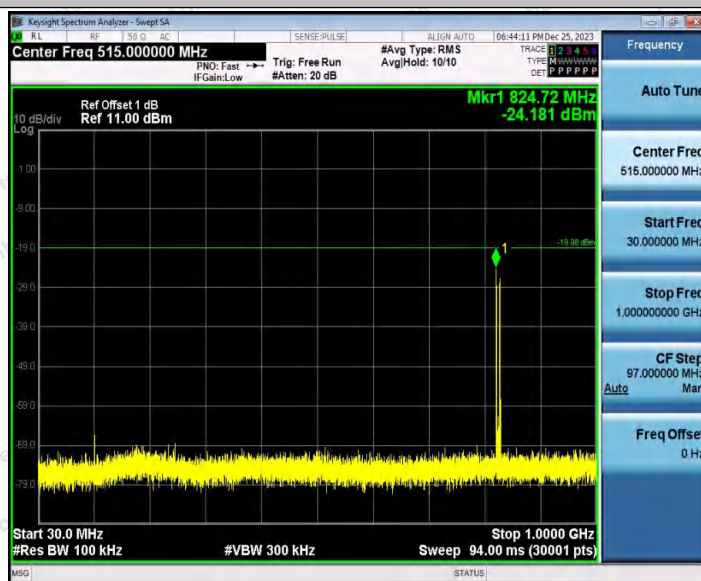
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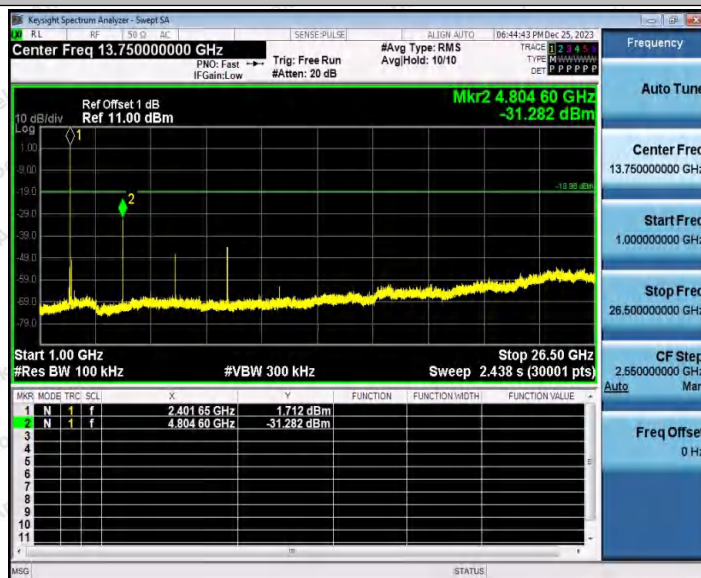
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BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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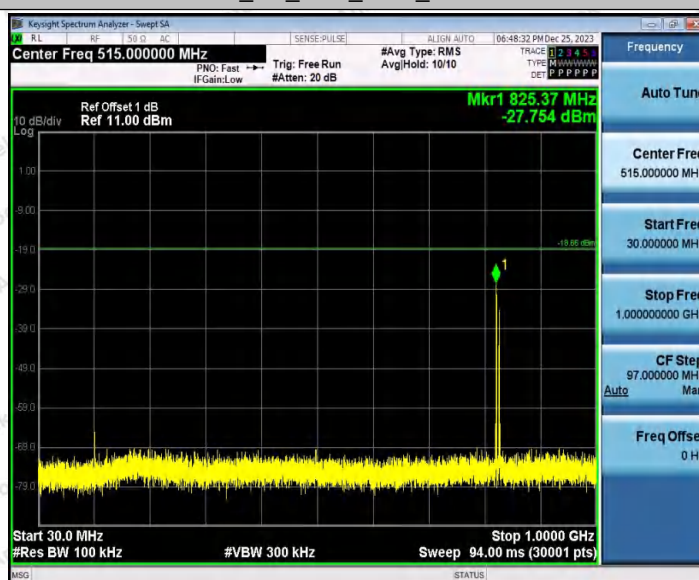


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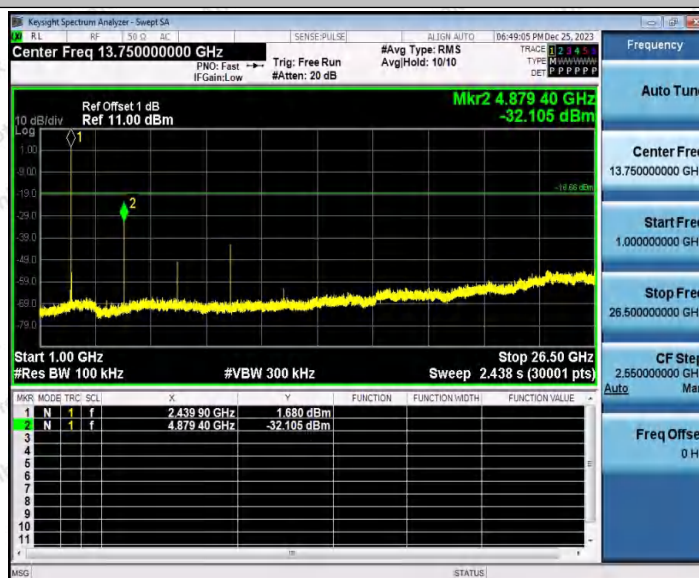




BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



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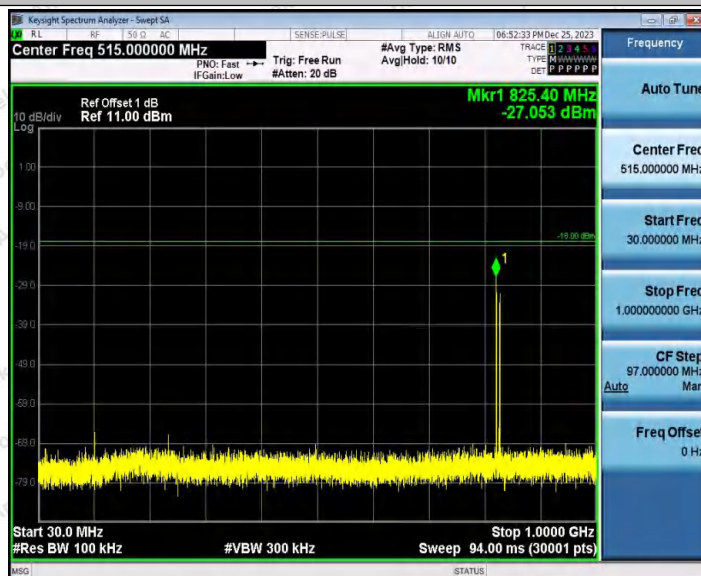
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500

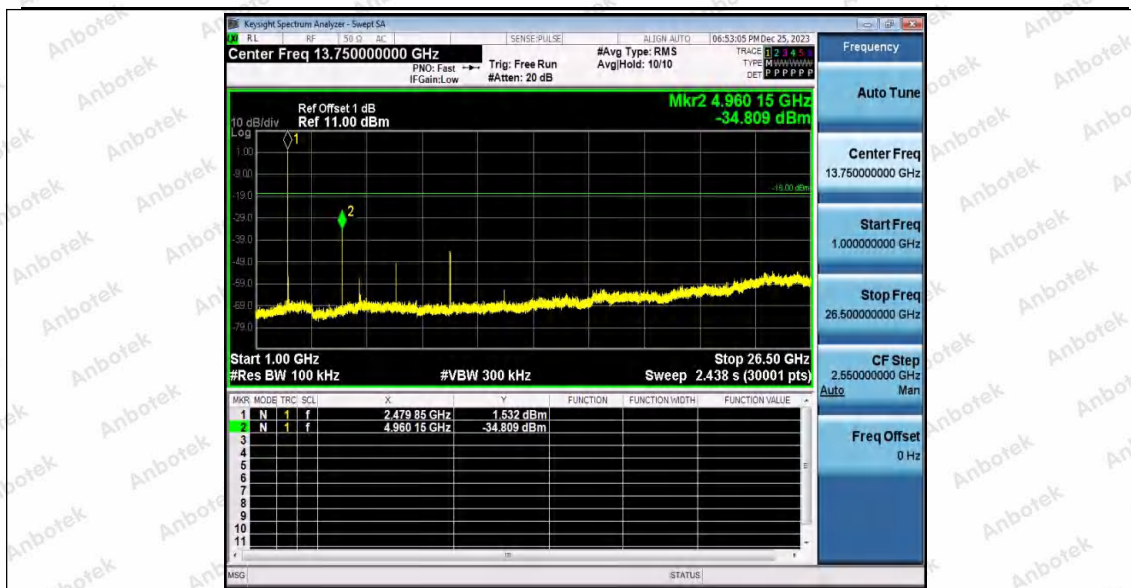
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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	19.00	19.00	100	0.00
		2440	19.00	19.00	100	0.00
		2480	19.00	19.00	100	0.00
BLE_2M	Ant1	2402	19.00	19.00	100	0.00
		2440	19.00	19.00	100	0.00
		2480	19.00	19.00	100	0.00

Test Graphs



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



BLE_2M_Ant1_2402

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BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

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