

Appendix Test Data

Report No.:	18220WC30078301	Test Sample No.:	1-2-2
Start Test Date:	2023.05.09	Finish Test Date:	2023.05.10
Test Engineer:	RICK Luo	Auditor:	Edward Pan
Temperature:	26.0°C	Relative Humidity:	50%
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.632	2402.296	0.5	PASS
		2440	0.656	2439.624	2440.280	0.5	PASS
		2480	0.636	2479.632	2480.268	0.5	PASS
BLE_2M	Ant1	2402	1.340	2401.280	2402.620	0.5	PASS
		2440	1.060	2439.424	2440.484	0.5	PASS
		2480	1.244	2479.308	2480.552	0.5	PASS

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Test Graphs



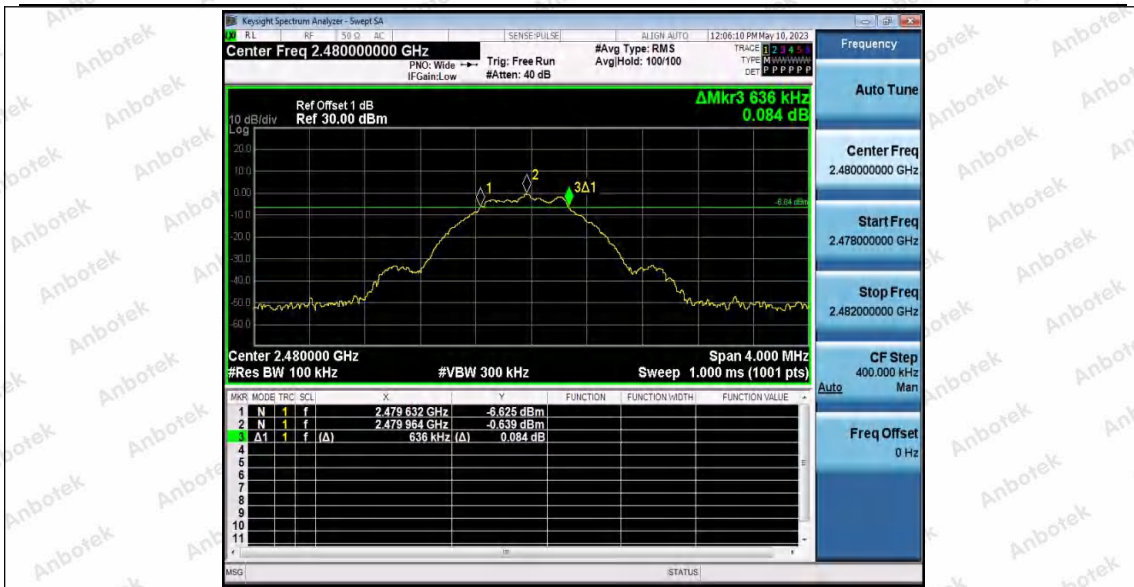
BLE_1M_Ant1_2480

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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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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	1.0253	2401.4506	2402.4759
		2440	1.0263	2439.4437	2440.4700
		2480	1.0186	2479.4439	2480.4625
BLE_2M	Ant1	2402	2.0520	2400.9487	2403.0007
		2440	2.0701	2438.9347	2441.0048
		2480	2.0712	2478.9301	2481.0013

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Test Graphs



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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	-0.91	≤30	PASS
		2440	-0.88	≤30	PASS
		2480	-0.3	≤30	PASS
BLE_2M	Ant1	2402	-0.86	≤30	PASS
		2440	-0.64	≤30	PASS
		2480	0.08	≤30	PASS

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Test Graphs Peak



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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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	-16.54	≤8.00	PASS
		2440	-16.01	≤8.00	PASS
		2480	-15.51	≤8.00	PASS
BLE_2M	Ant1	2402	-17.94	≤8.00	PASS
		2440	-17.57	≤8.00	PASS
		2480	-16.98	≤8.00	PASS



Test Graphs



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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	-55.27	≤-22.91	PASS
		High	2480	-1.80	-57.18	≤-21.8	PASS
BLE_2M	Ant1	Low	2402	-1.00	-49.89	≤-21	PASS
		High	2480	-1.63	-56.8	≤-21.63	PASS

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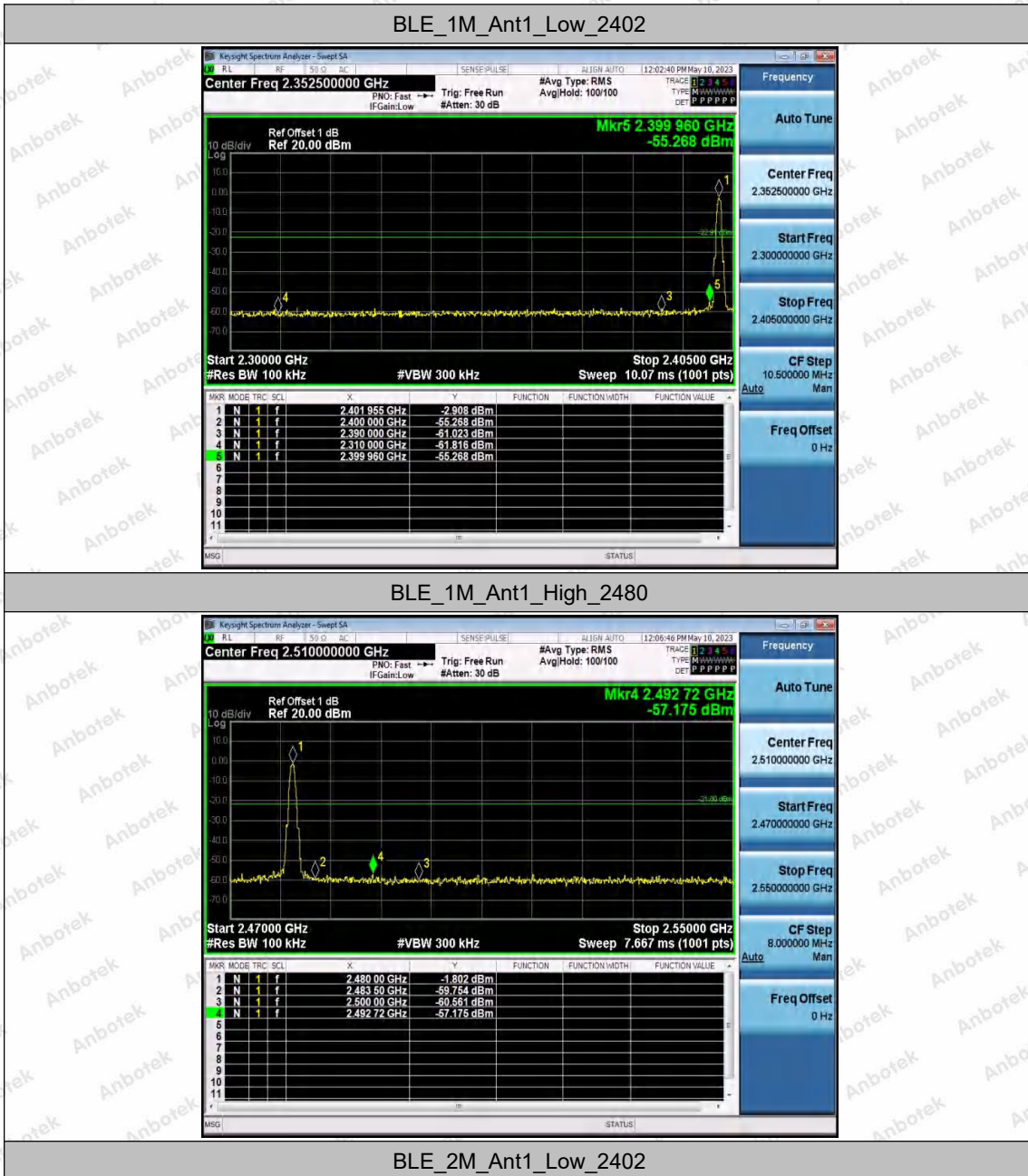
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Test Graphs



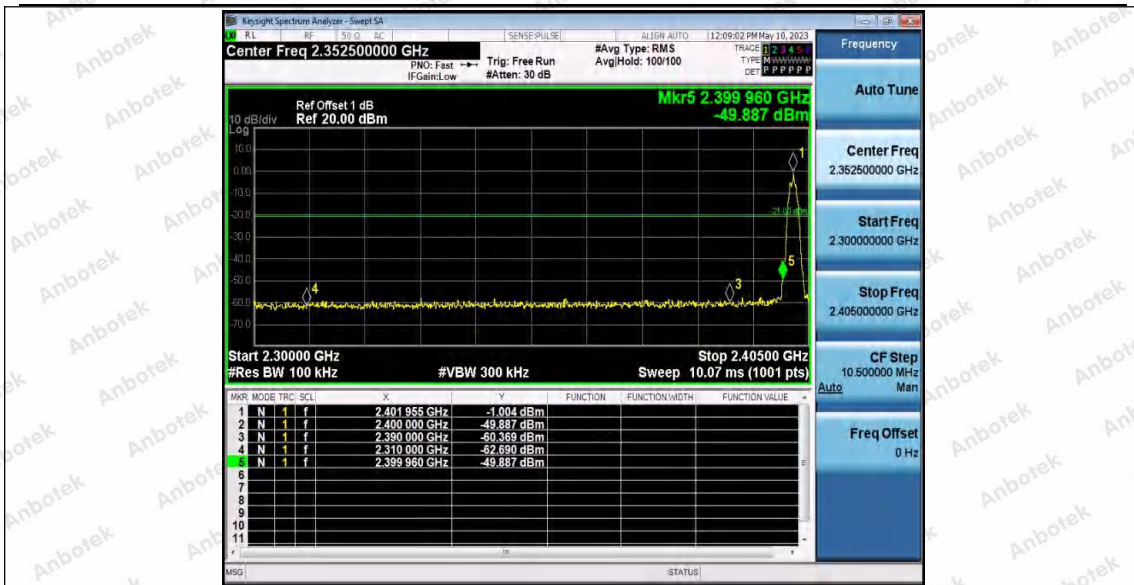
BLE_2M_Ant1_Low_2402

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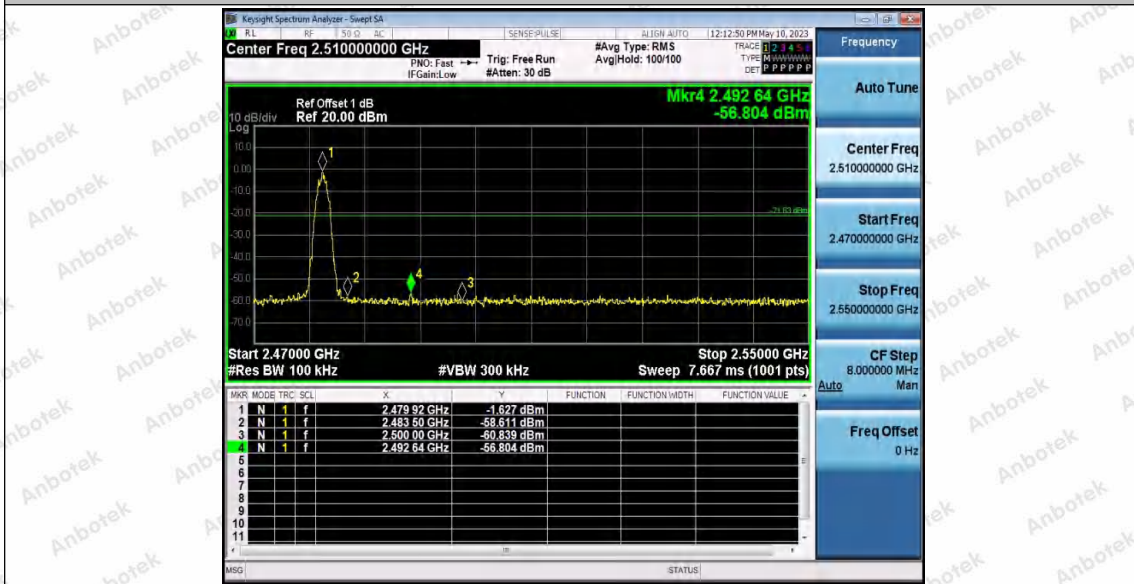
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BLE_2M_Ant1_High_2480



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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	-3.06	-3.06	---	PASS
			30~1000	-3.06	-68.79	≤-23.06	PASS
			1000~26500	-3.06	-53.27	≤-23.06	PASS
		2440	Reference	-2.82	-2.82	---	PASS
			30~1000	-2.82	-68.95	≤-22.82	PASS
			1000~26500	-2.82	-52.74	≤-22.82	PASS
		2480	Reference	-2.53	-2.53	---	PASS
			30~1000	-2.53	-68.59	≤-22.53	PASS
			1000~26500	-2.53	-53.55	≤-22.53	PASS
BLE_2M	Ant1	2402	Reference	-5.77	-5.77	---	PASS
			30~1000	-5.77	-68.88	≤-25.77	PASS
			1000~26500	-5.77	-53.15	≤-25.77	PASS
		2440	Reference	-2.97	-2.97	---	PASS
			30~1000	-2.97	-68.7	≤-22.97	PASS
			1000~26500	-2.97	-53.32	≤-22.97	PASS
		2480	Reference	-4.14	-4.14	---	PASS
			30~1000	-4.14	-68.85	≤-24.14	PASS
			1000~26500	-4.14	-52.92	≤-24.14	PASS



Test Graphs



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BLE_1M_Ant1_2440_0~Reference



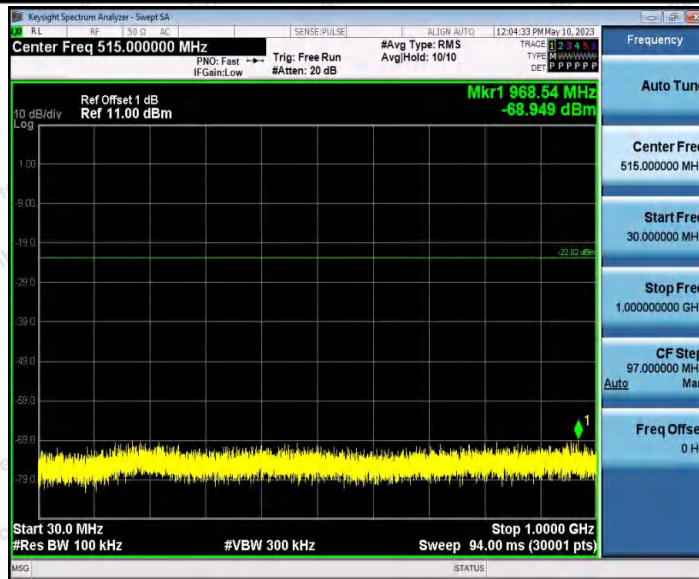
BLE_1M_Ant1_2440_30~1000

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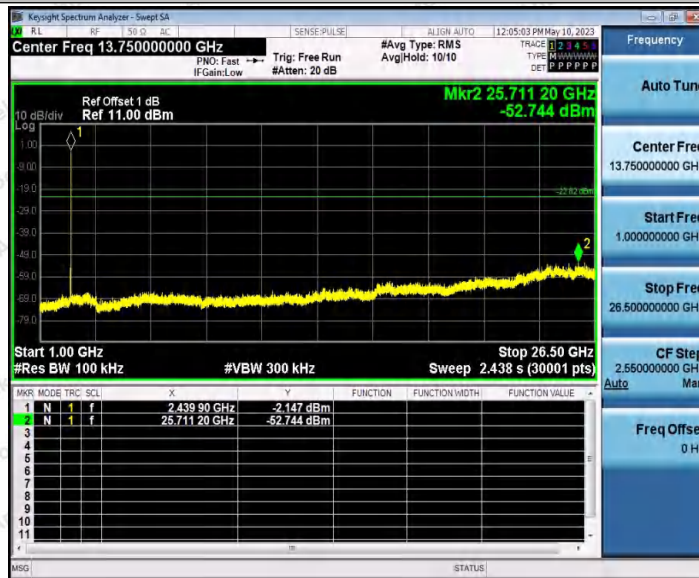
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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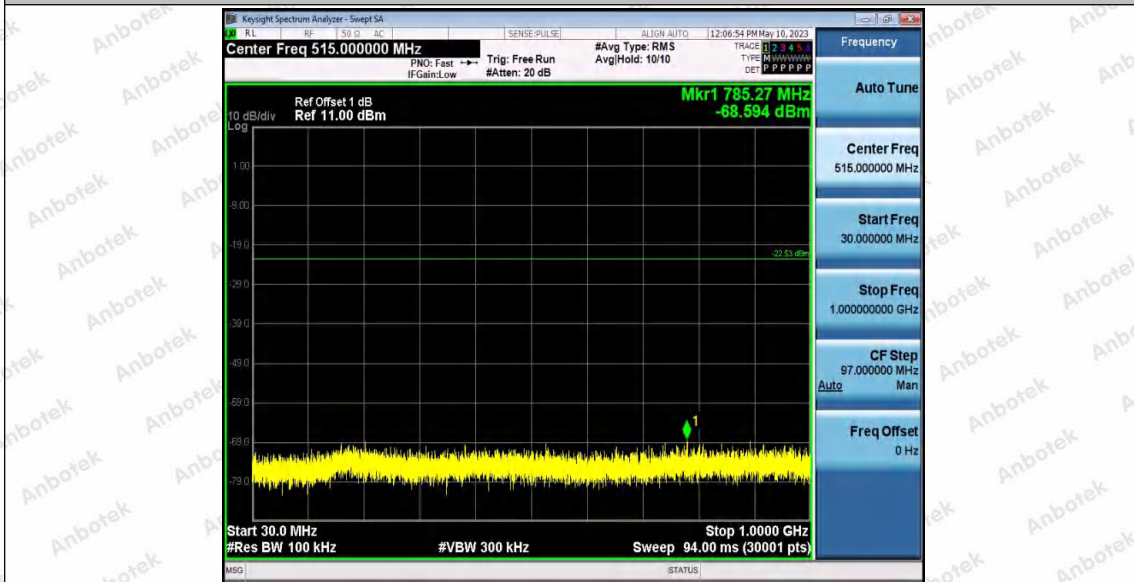
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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BLE_1M_Ant1_2480_30~1000



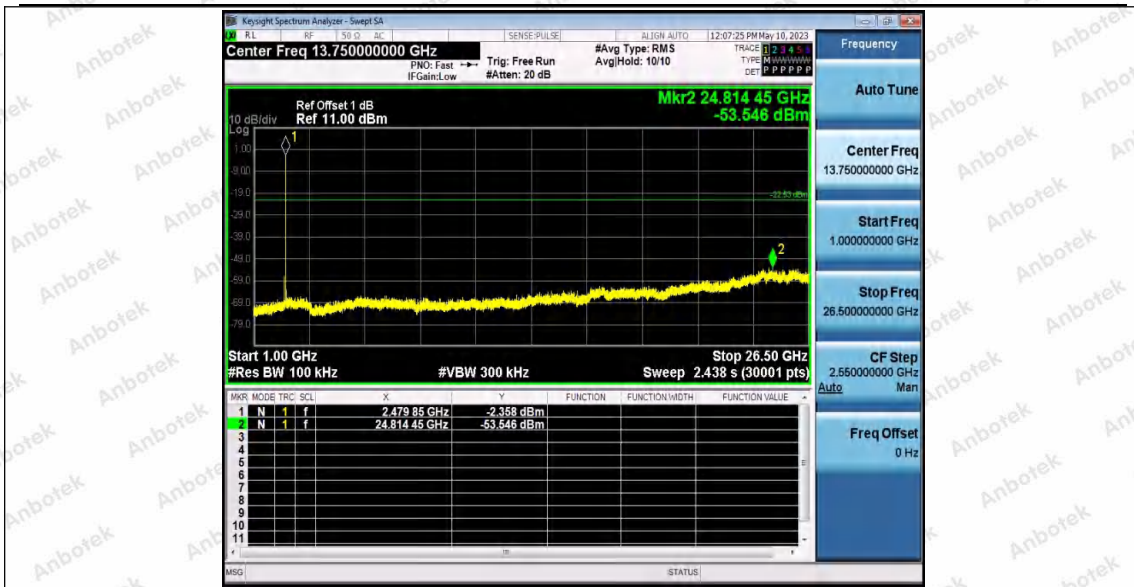
BLE_1M_Ant1_2480_1000~26500

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BLE_2M_Ant1_2402_0~Reference



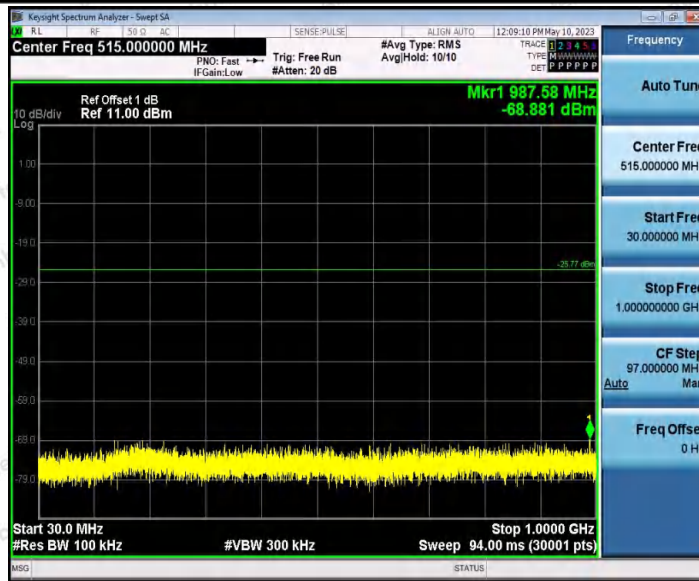
BLE_2M_Ant1_2402_30~100

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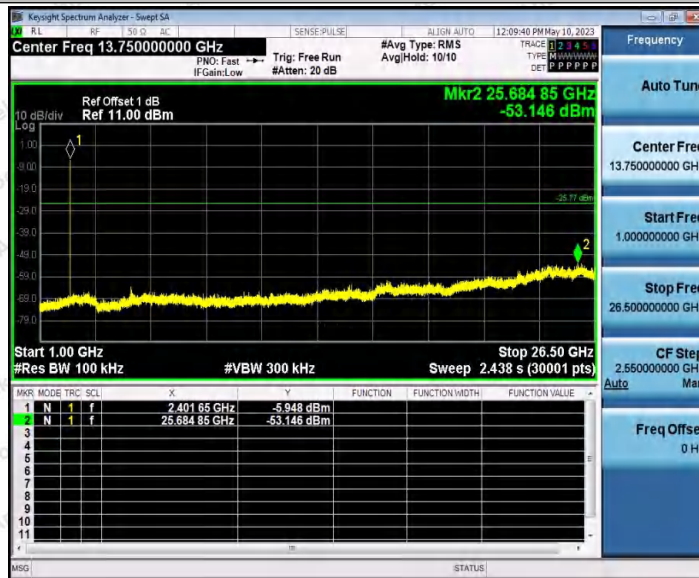
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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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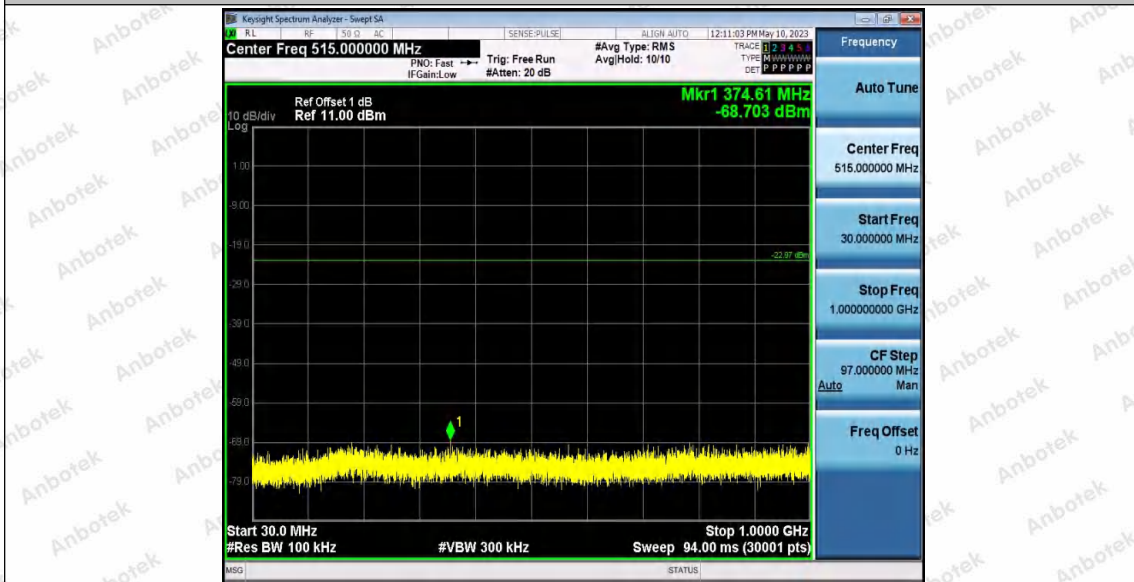
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BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

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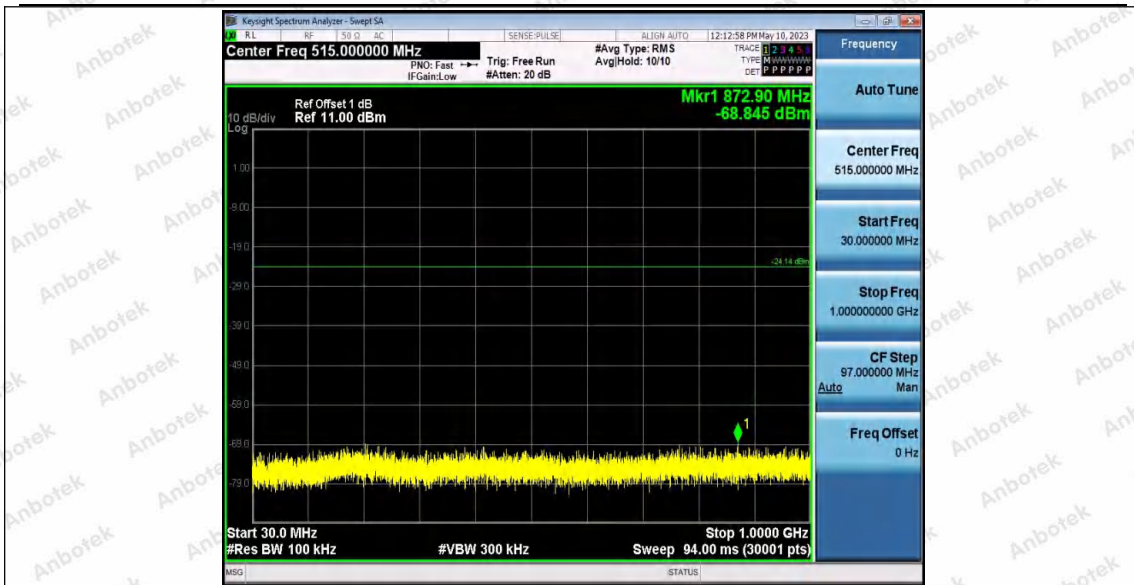
BLE_2M_Ant1_2480_30~100

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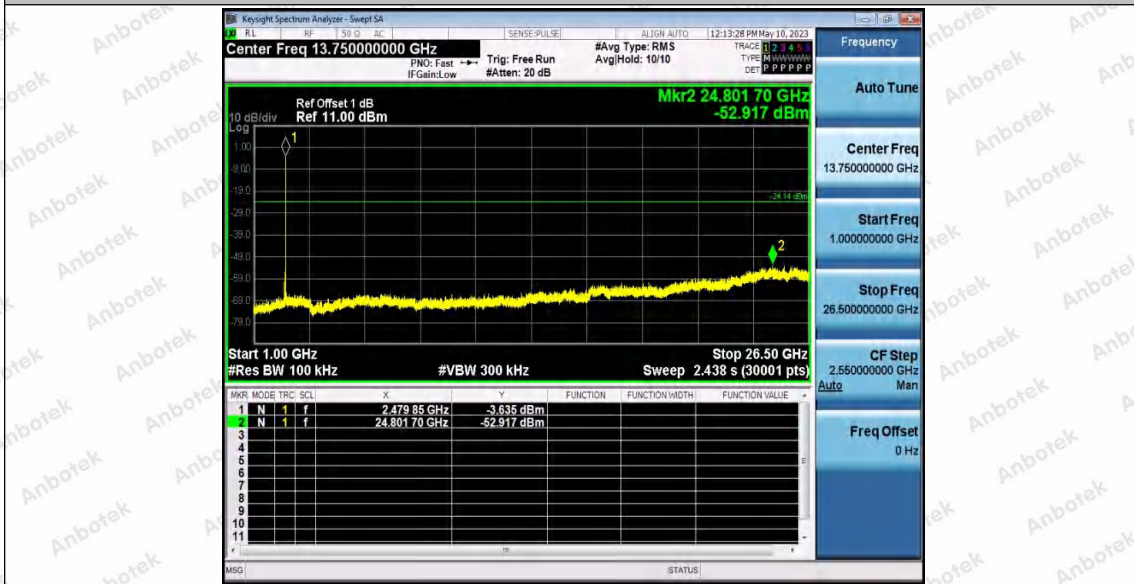
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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.10	2.50	84.00	0.76
		2440	2.10	2.50	84.00	0.76
		2480	2.10	2.50	84.00	0.76
BLE_2M	Ant1	2402	1.06	1.88	56.38	2.49
		2440	1.06	1.88	56.38	2.49
		2480	1.06	1.88	56.38	2.49

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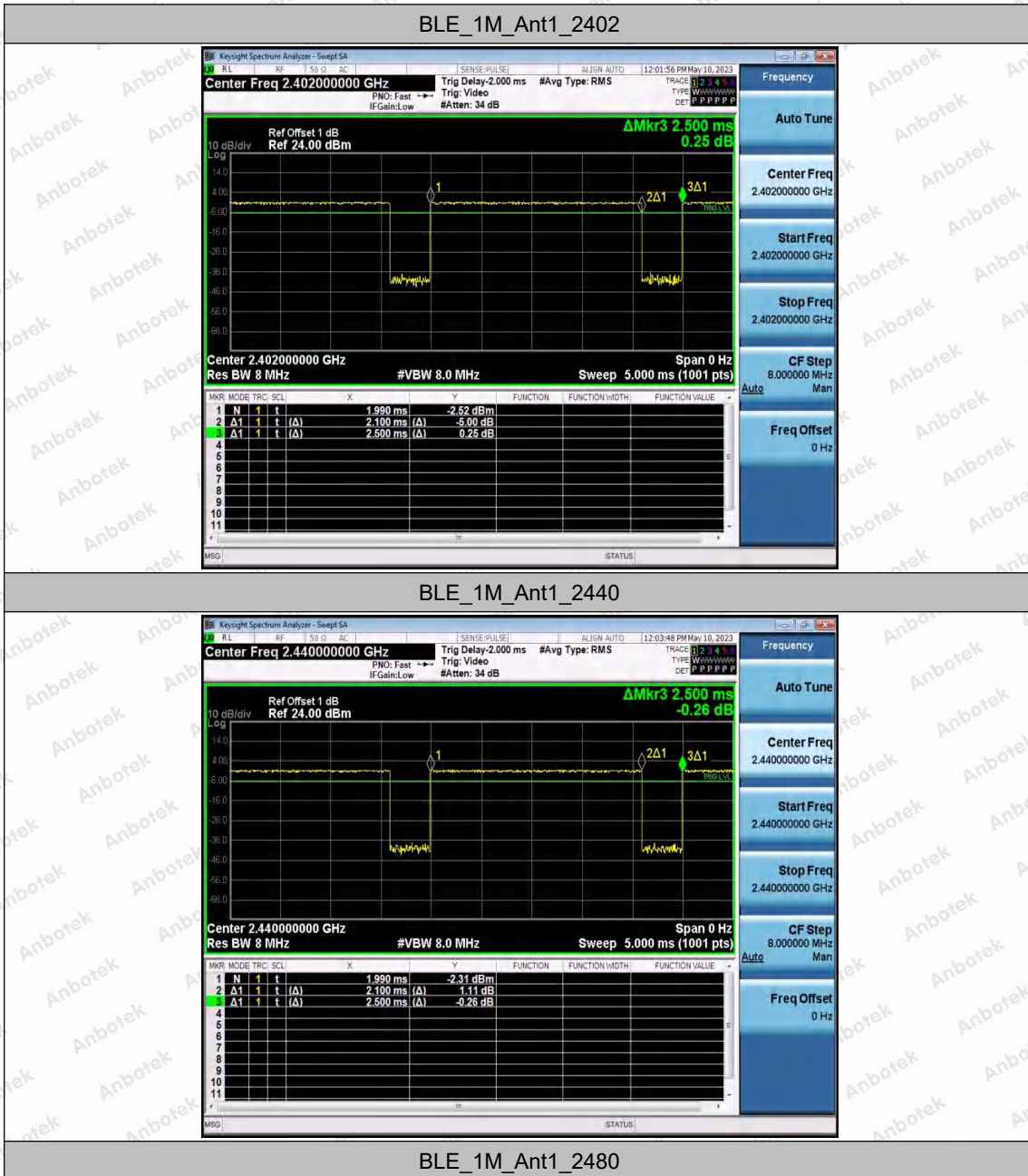
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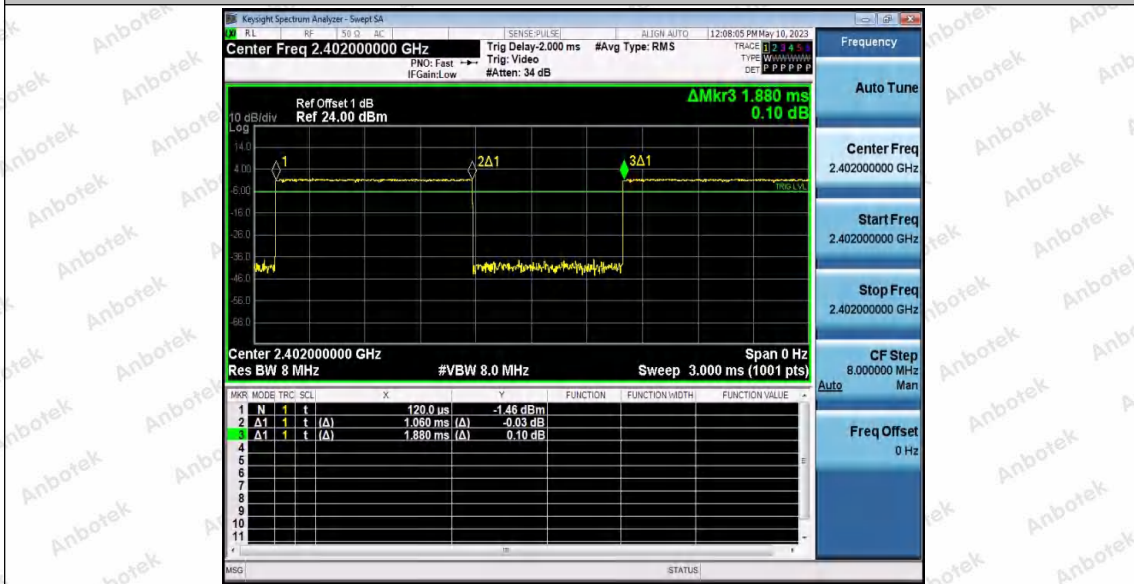
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BLE_2M_Ant1_2402



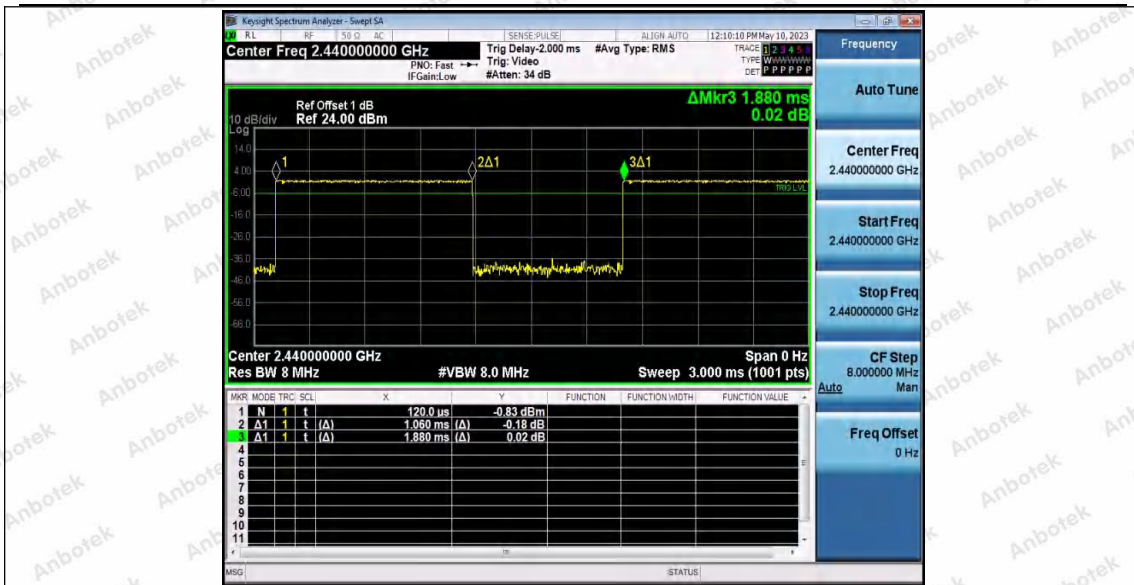
BLE_2M_Ant1_2440

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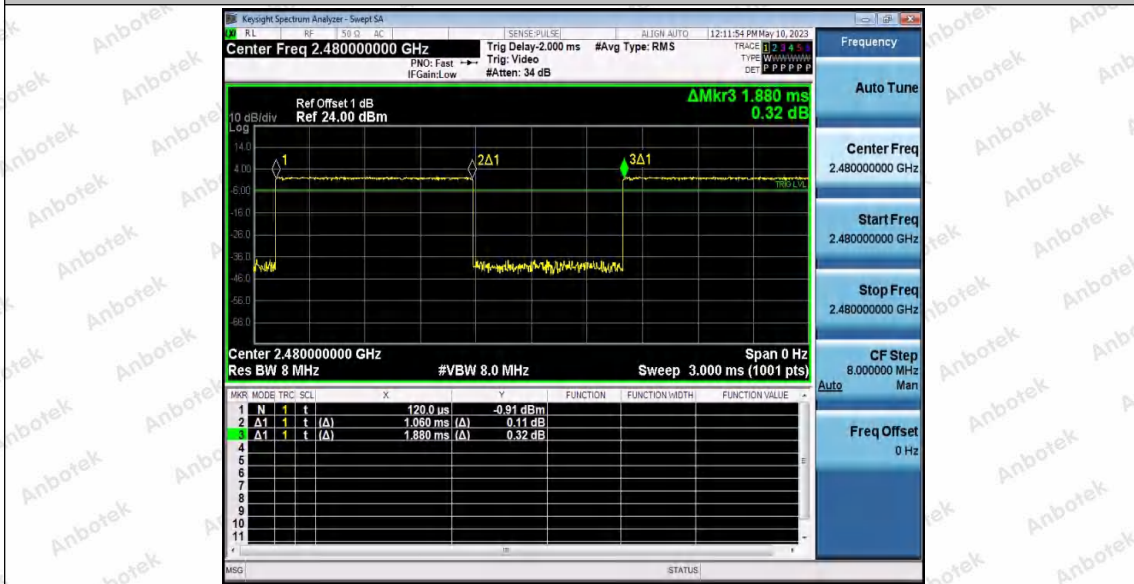
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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BLE_2M_Ant1_2480



---End---

