

Appendix Test Data

Report No.:	18220WC20231501	Test Sample No.:	1-2-2
Start Test Date:	2022.9.26	Finish Test Date:	2022.9.29
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	27.3°C	Relative Humidity:	47 %
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	0.688	2401.656	2402.344	0.5	PASS
		2440	0.648	2439.676	2440.324	0.5	PASS
		2480	0.672	2479.656	2480.328	0.5	PASS
BLE_2M	Ant1	2402	1.100	2401.444	2402.544	0.5	PASS
		2440	1.064	2439.496	2440.560	0.5	PASS
		2480	1.112	2479.456	2480.568	0.5	PASS

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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 B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0299	2401.4897	2402.5196
		2440	1.0366	2439.4912	2440.5278
		2480	1.0343	2479.4891	2480.5234
BLE_2M	Ant1	2402	2.0810	2400.9808	2403.0618
		2440	2.0995	2438.9650	2441.0645
		2480	2.1005	2478.9659	2481.0664

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Test Graphs





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	1.27	≤30	PASS
		2440	1.00	≤30	PASS
		2480	0.80	≤30	PASS
BLE_2M	Ant1	2402	1.28	≤30	PASS
		2440	1.00	≤30	PASS
		2480	0.79	≤30	PASS

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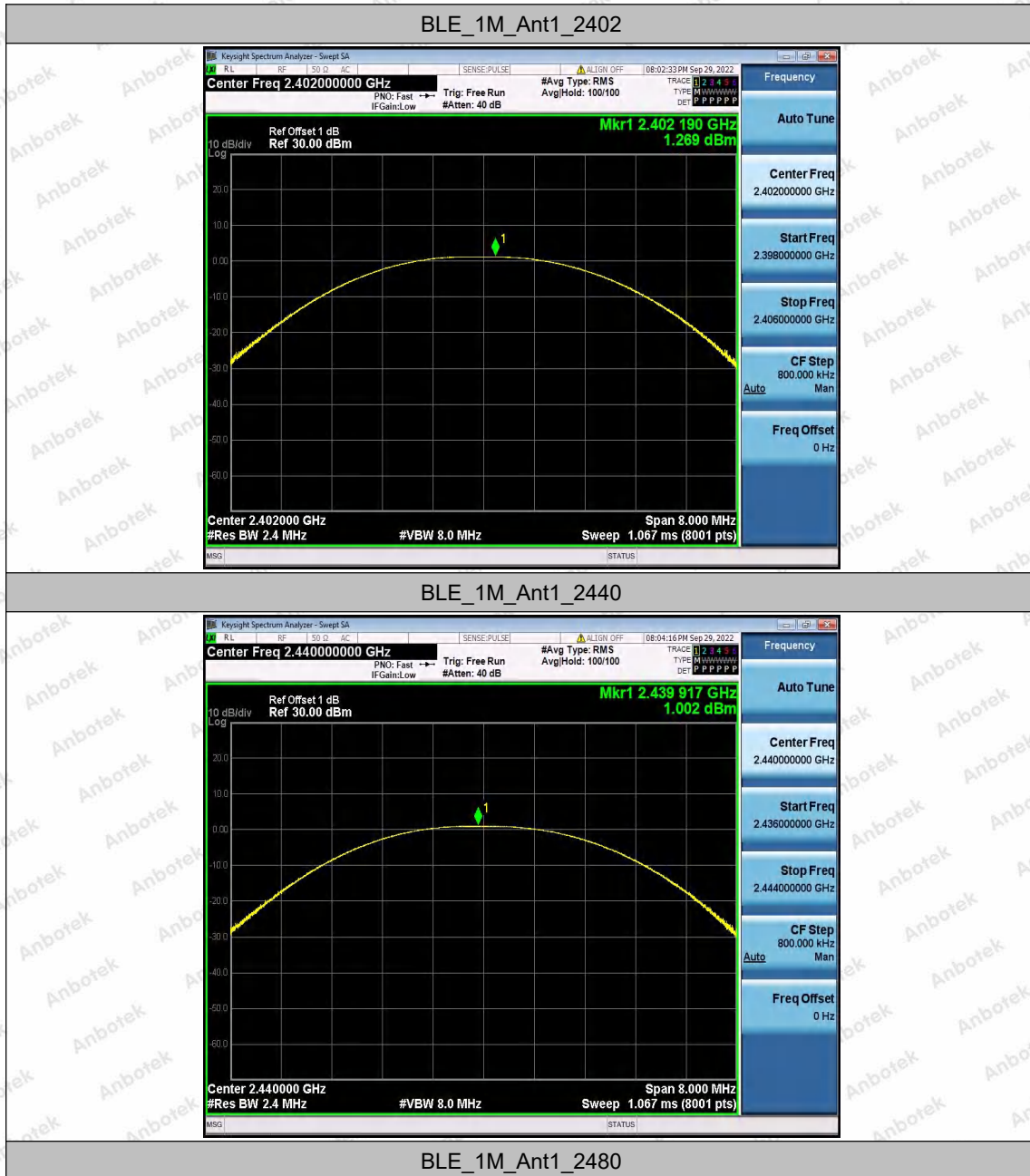
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Test Graphs Peak



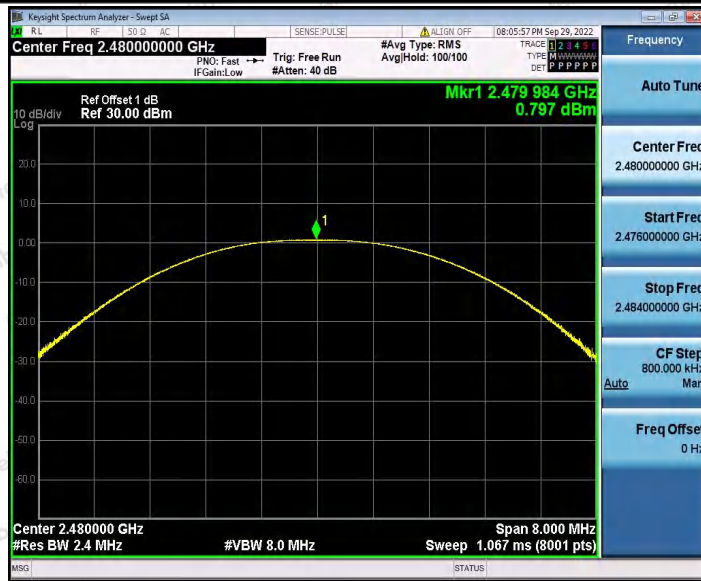
BLE_1M_Ant1_2480

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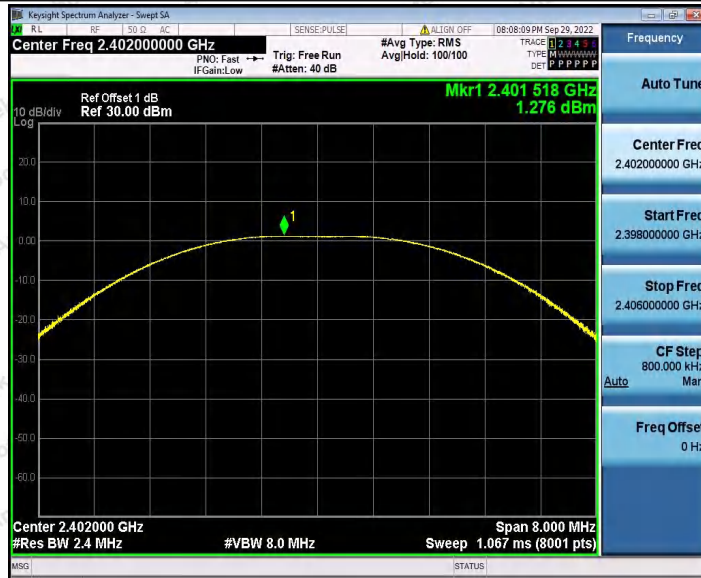
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BLE_2M_Ant1_2402



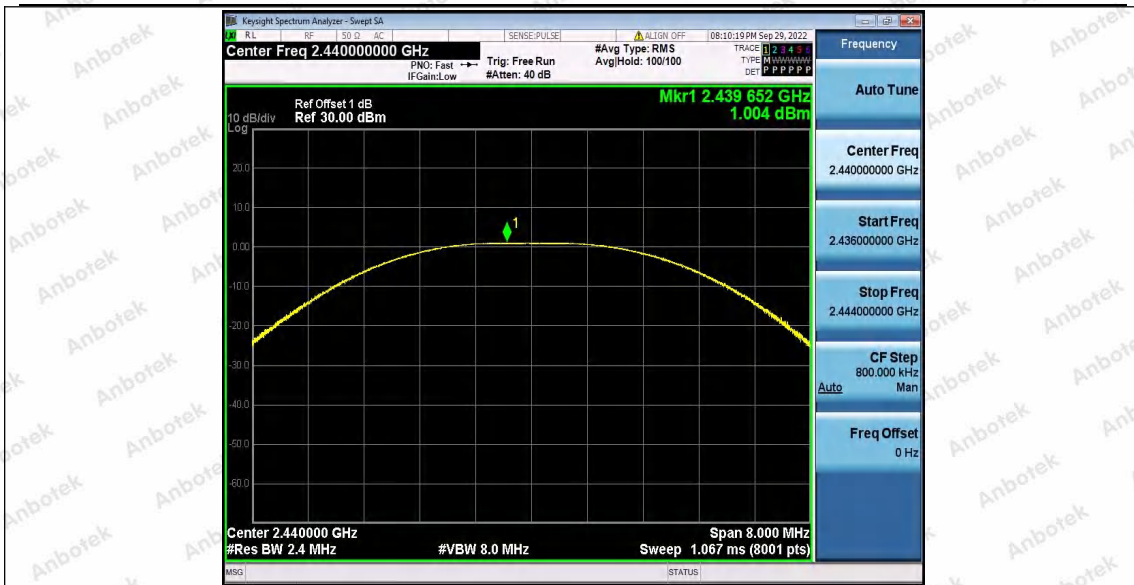
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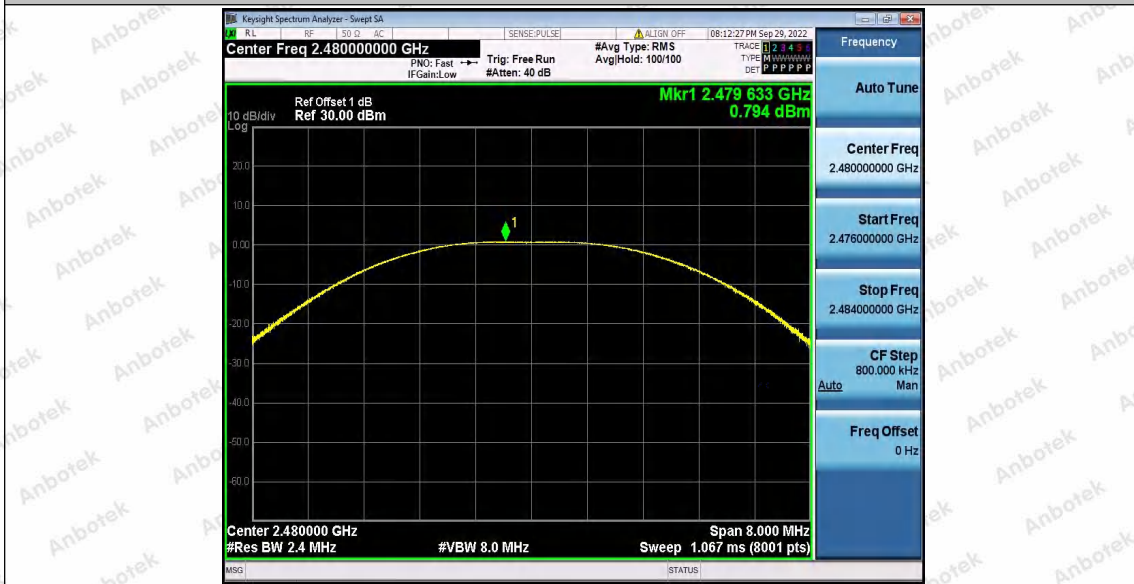
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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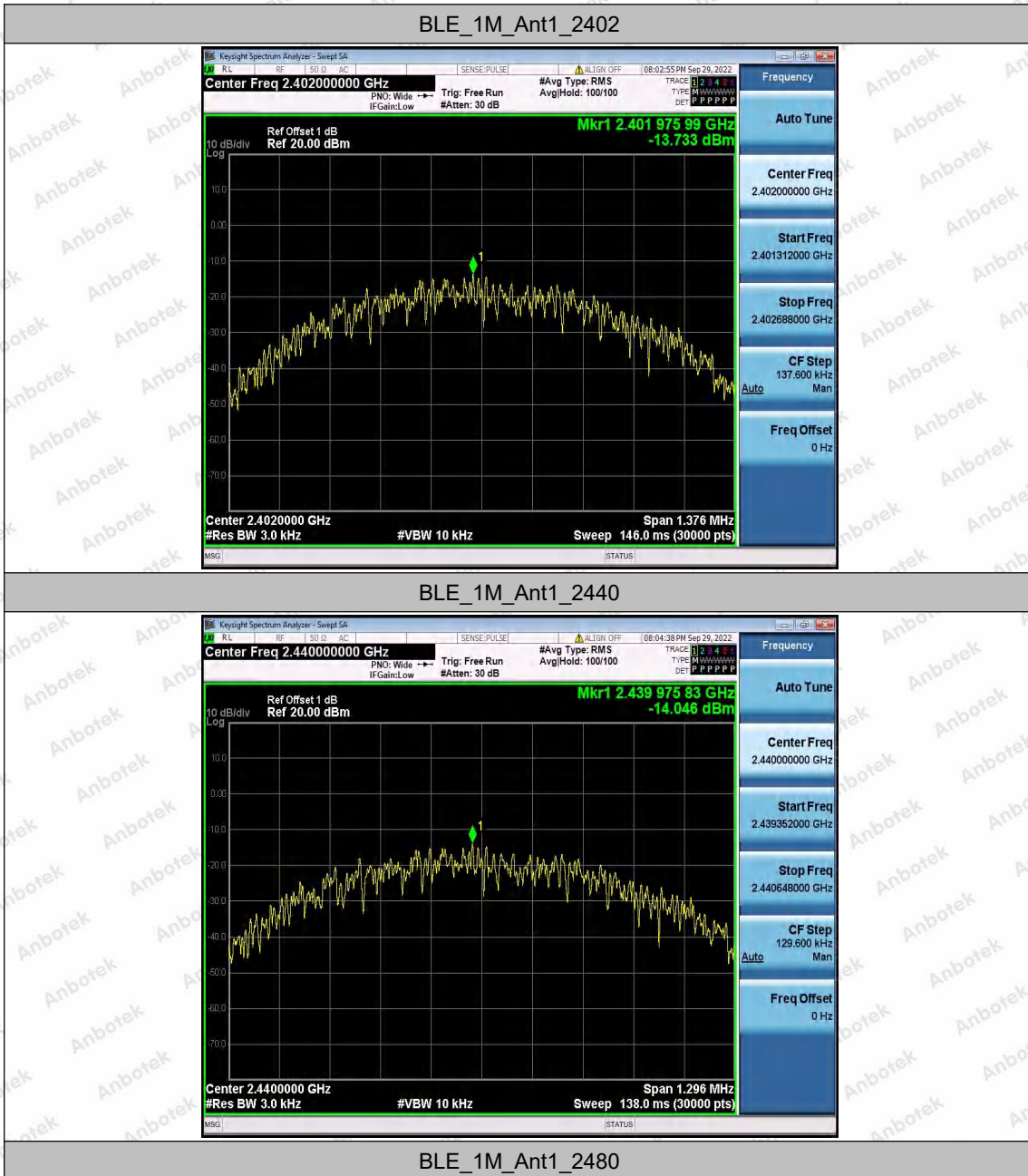
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.73	≤8.00	PASS
		2440	-14.05	≤8.00	PASS
		2480	-14.22	≤8.00	PASS
BLE_2M	Ant1	2402	-15.05	≤8.00	PASS
		2440	-15.37	≤8.00	PASS
		2480	-15.58	≤8.00	PASS



Test Graphs



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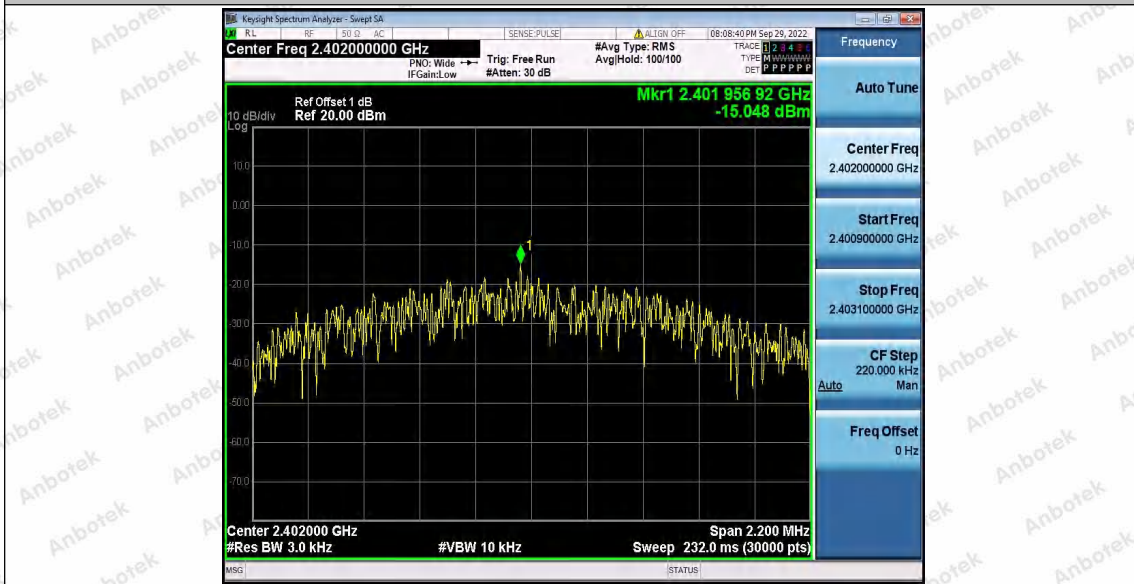
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BLE_2M_Ant1_2402



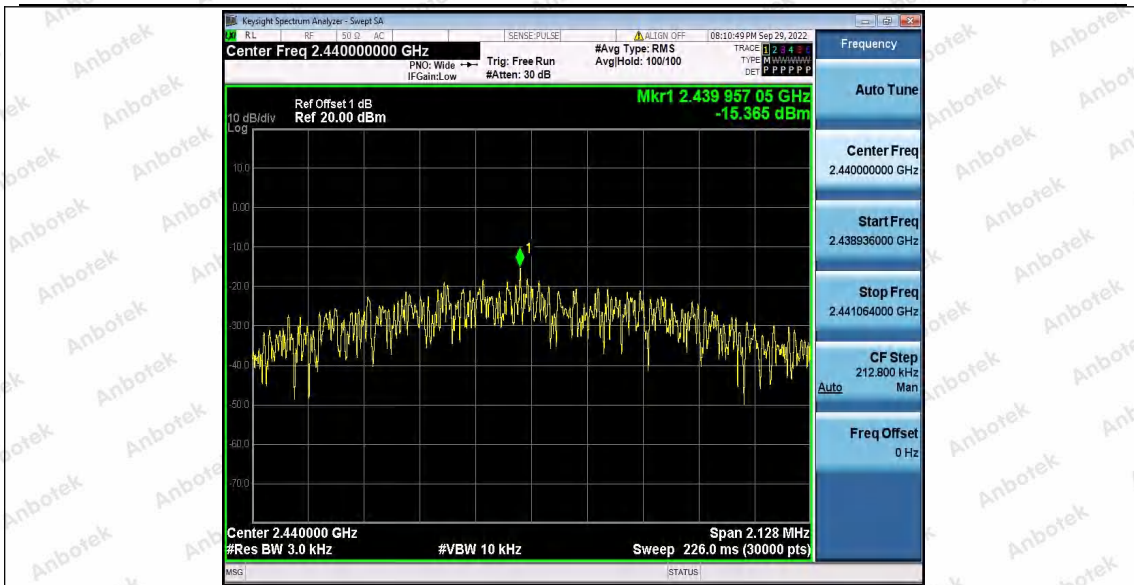
BLE_2M_Ant1_2440

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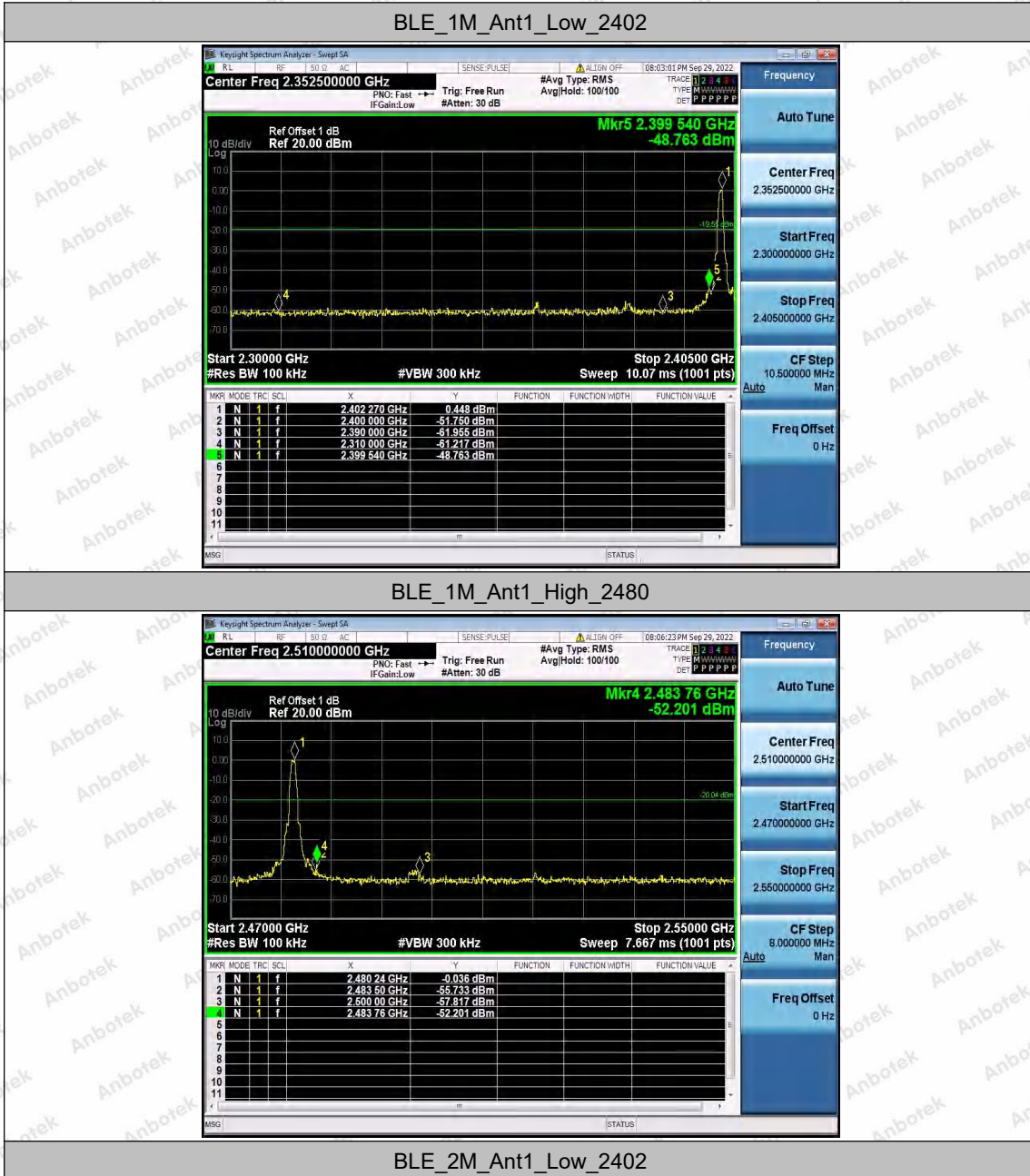
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.45	-48.76	≤-19.55	PASS
		High	2480	-0.04	-52.2	≤-20.04	PASS
BLE_2M	Ant1	Low	2402	0.03	-35.58	≤-19.97	PASS
		High	2480	-2.41	-54.19	≤-22.41	PASS



Test Graphs

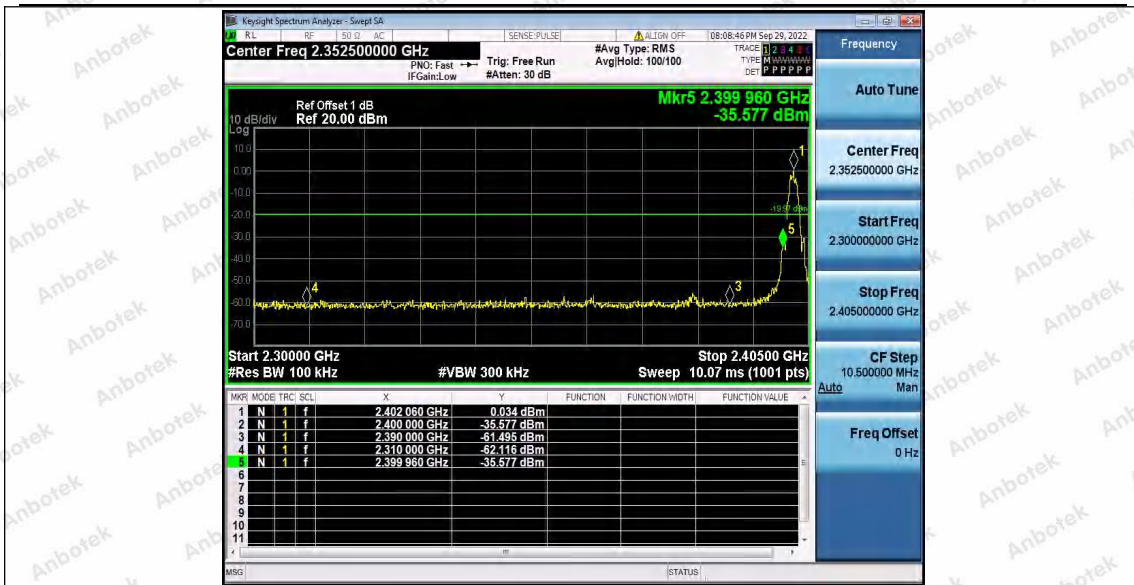


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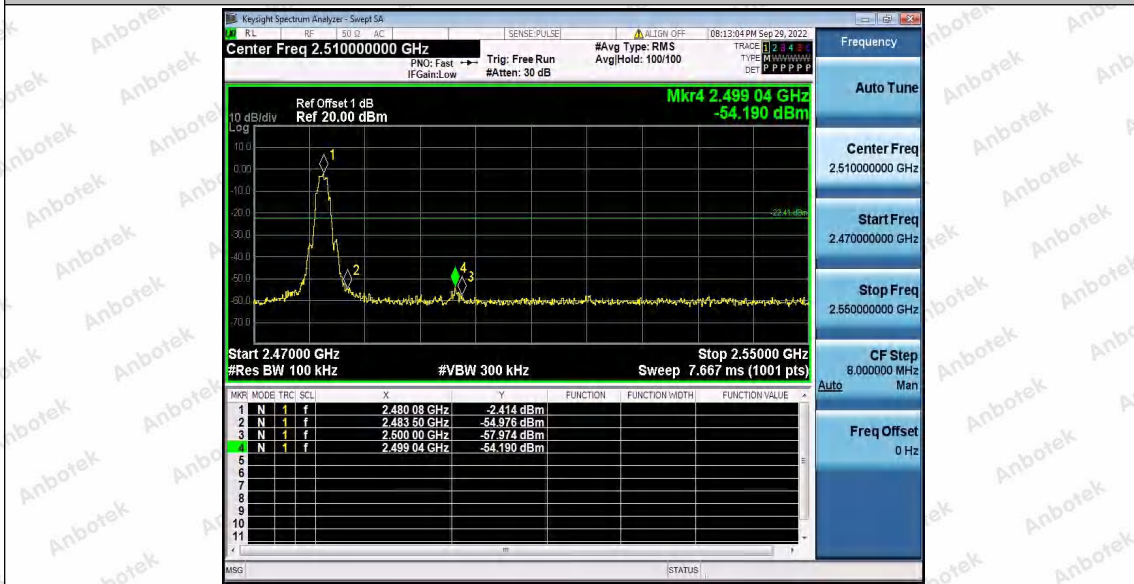
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BLE_2M_Ant1_High_2480



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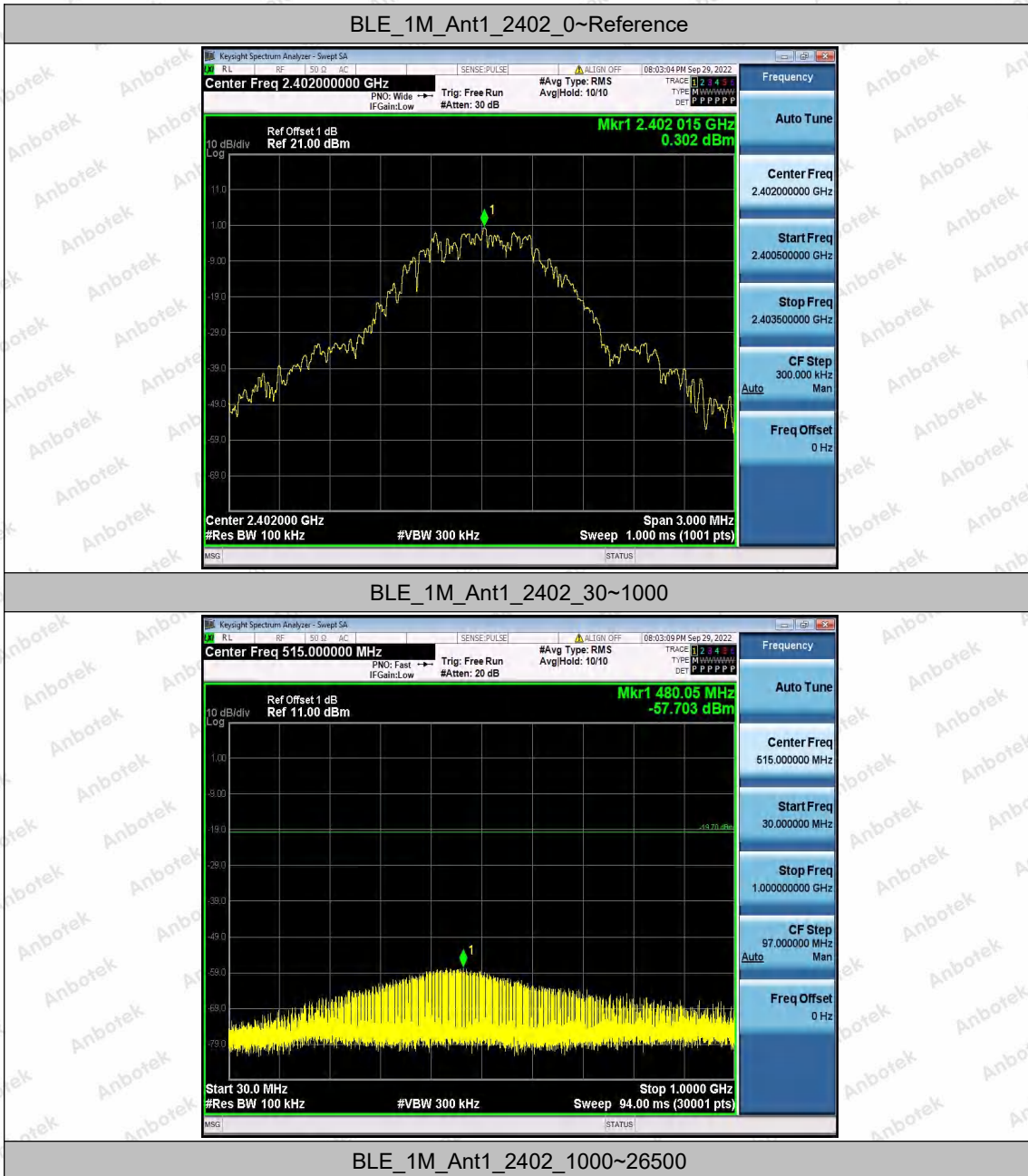
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.30	0.30	---	PASS
			30~1000	0.30	-57.7	≤-19.7	PASS
			1000~26500	0.30	-53.43	≤-19.7	PASS
		2440	Reference	-0.45	-0.45	---	PASS
			30~1000	-0.45	-57.67	≤-20.45	PASS
			1000~26500	-0.45	-53.87	≤-20.45	PASS
		2480	Reference	-0.39	-0.39	---	PASS
			30~1000	-0.39	-57.81	≤-20.39	PASS
			1000~26500	-0.39	-53.45	≤-20.39	PASS
BLE_2M	Ant1	2402	Reference	-2.17	-2.17	---	PASS
			30~1000	-2.17	-57.66	≤-22.17	PASS
			1000~26500	-2.17	-53.38	≤-22.17	PASS
		2440	Reference	-3.47	-3.47	---	PASS
			30~1000	-3.47	-57.94	≤-23.47	PASS
			1000~26500	-3.47	-54.15	≤-23.47	PASS
		2480	Reference	-1.93	-1.93	---	PASS
			30~1000	-1.93	-57.49	≤-21.93	PASS
			1000~26500	-1.93	-53.6	≤-21.93	PASS



Test Graphs

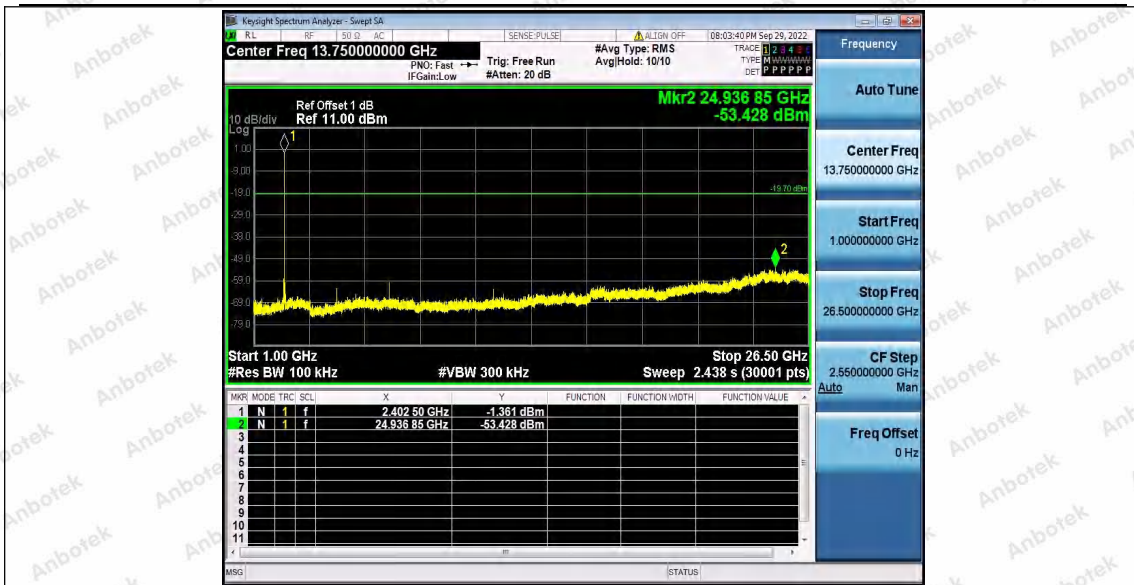


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BLE_1M_Ant1_2440_0~Reference



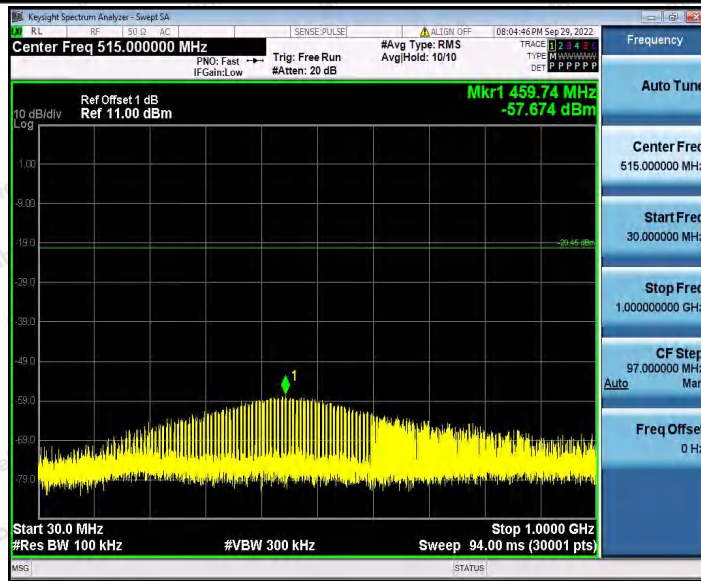
BLE_1M_Ant1_2440_30~1000

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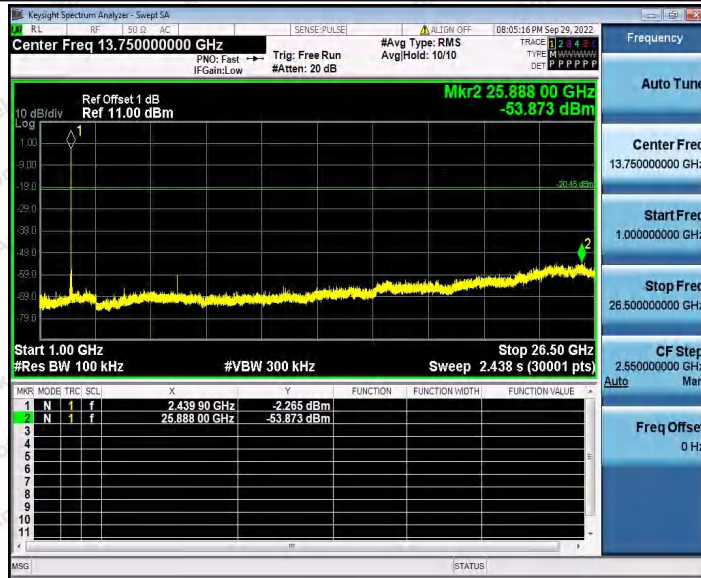
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BLE_1M_Ant1_2440_1000~26500

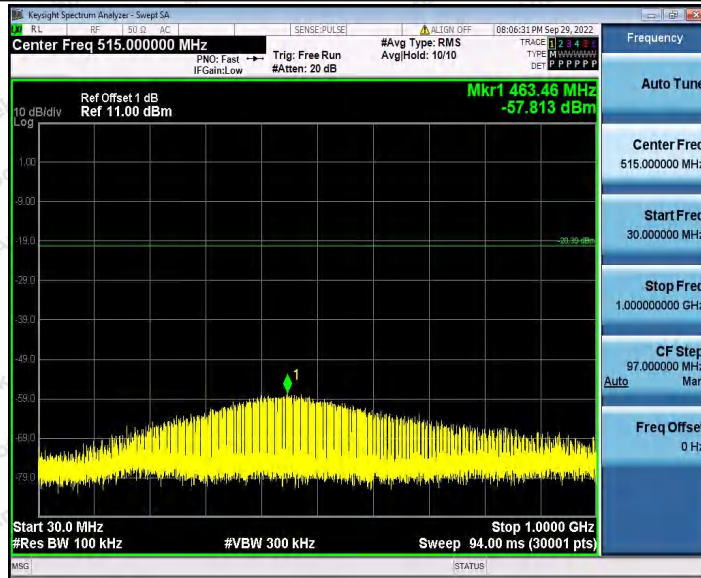


BLE_1M_Ant1_2480_0~Reference





BLE_1M_Ant1_2480_30~1000



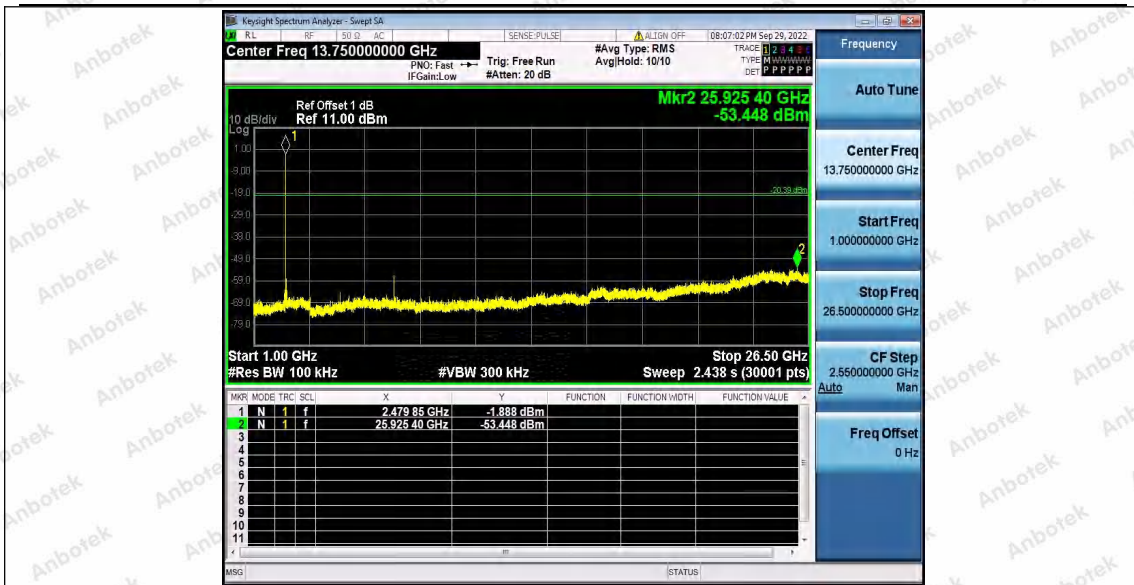
BLE_1M_Ant1_2480_1000~26500

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BLE_2M_Ant1_2402_0~Reference



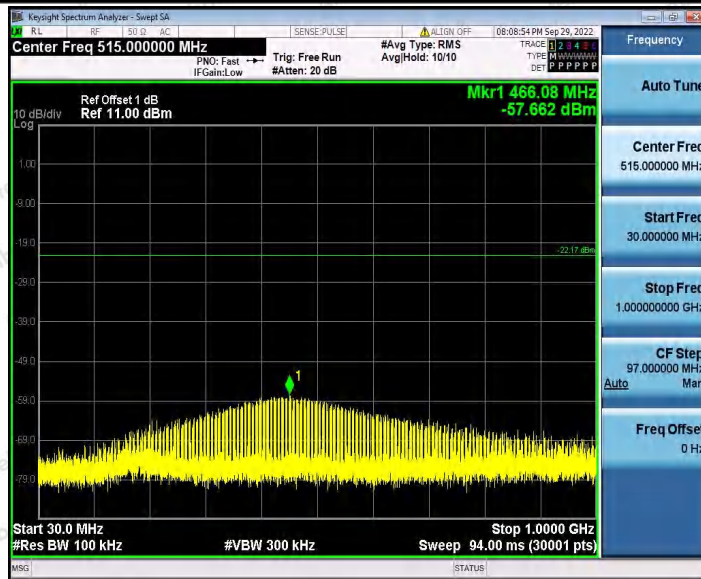
BLE_2M_Ant1_2402_30~100

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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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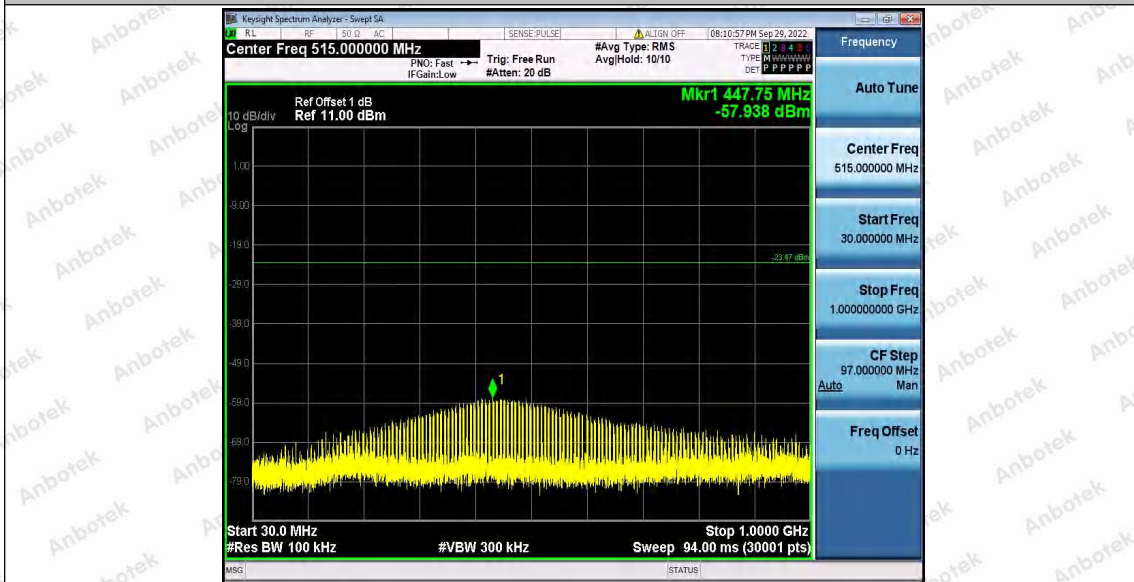
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BLE_2M_Ant1_2440_30~1000



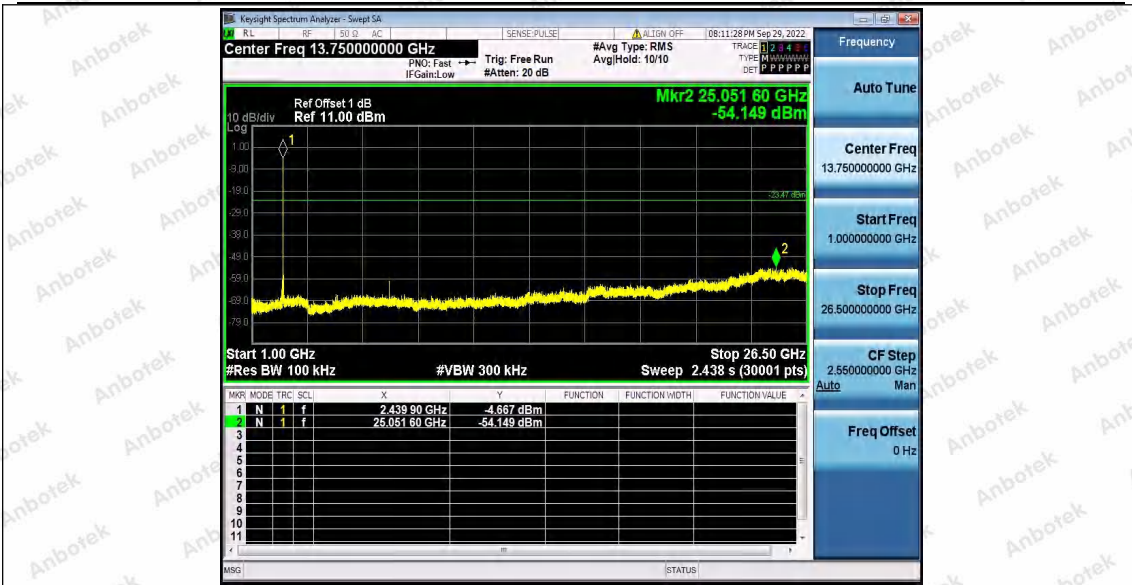
BLE_2M_Ant1_2440_1000~26500

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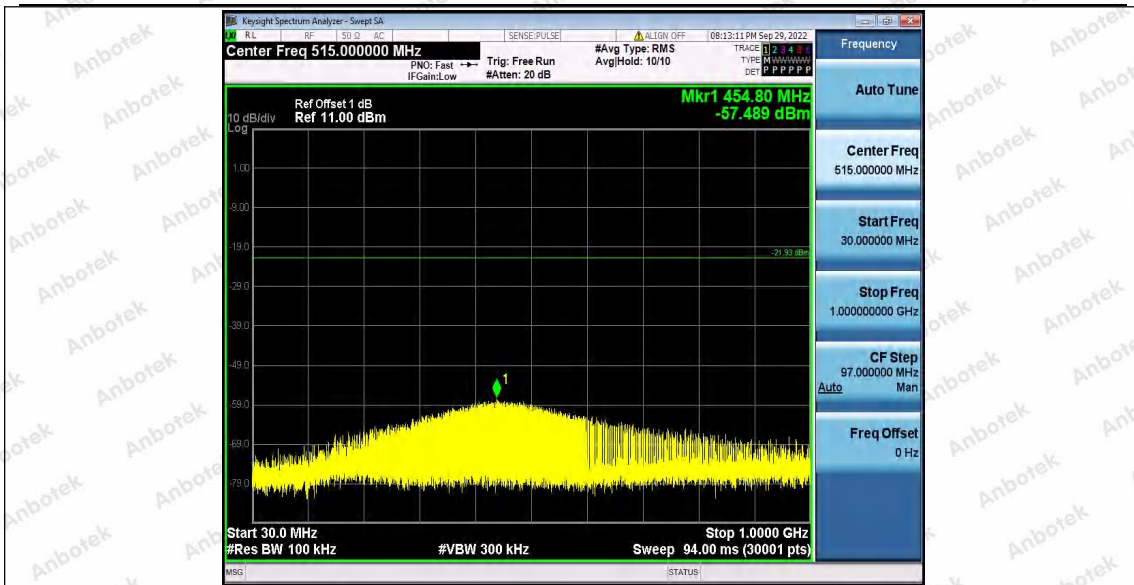


BLE_2M_Ant1_2480_0~Reference



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	0.39	0.63	61.90	2.08
		2440	0.39	0.63	61.90	2.08
		2480	0.39	0.63	61.90	2.08
BLE_2M	Ant1	2402	0.21	0.63	33.33	4.77
		2440	0.20	0.63	31.75	4.98
		2480	0.21	0.63	33.33	4.77

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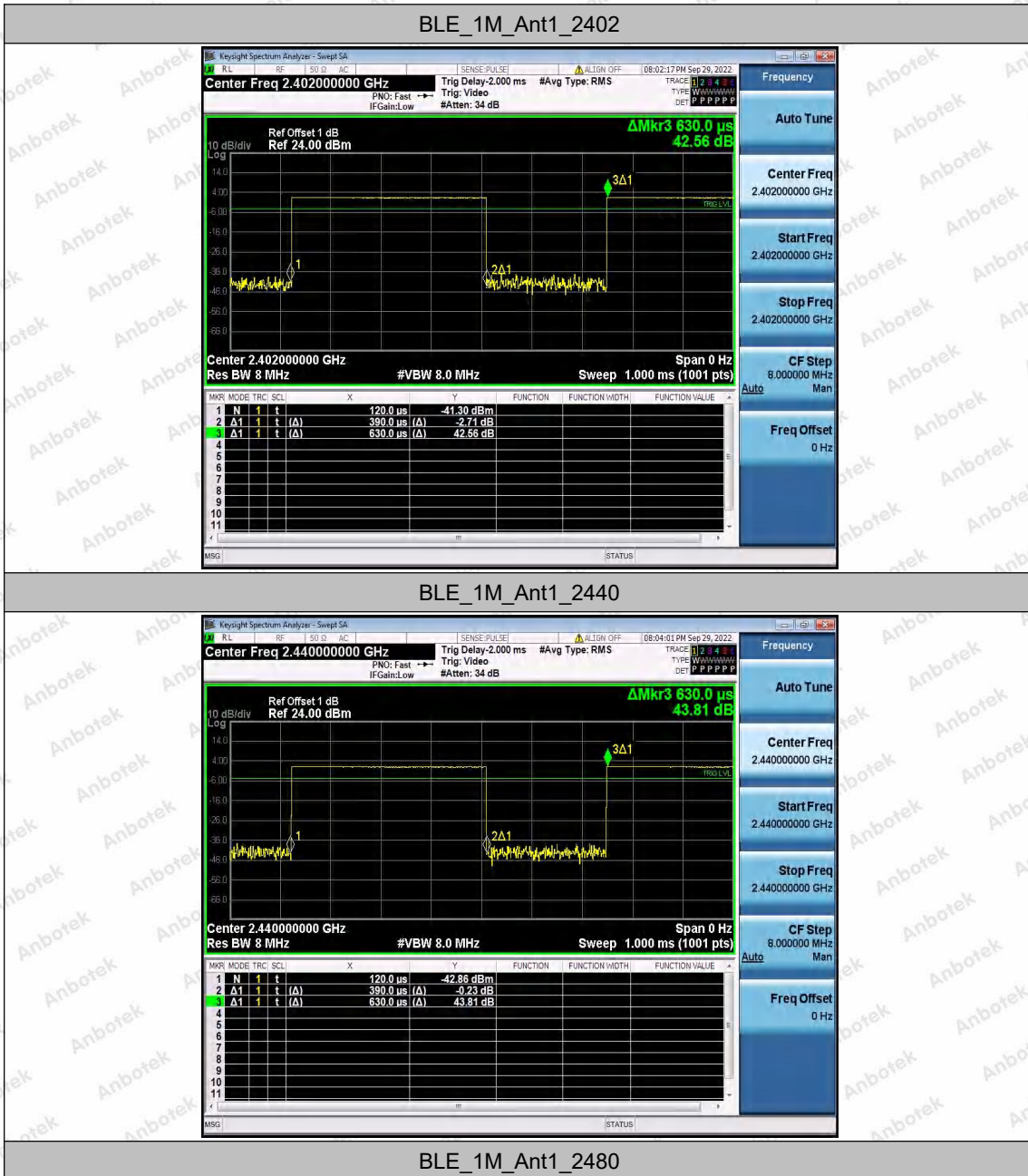
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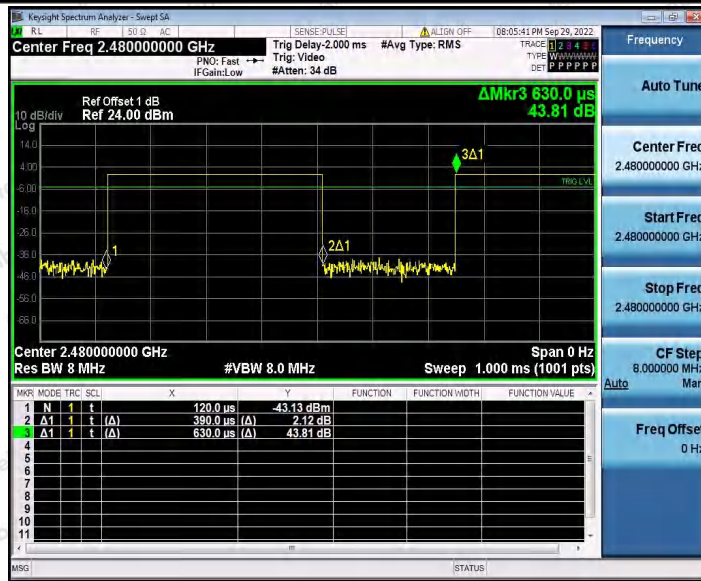


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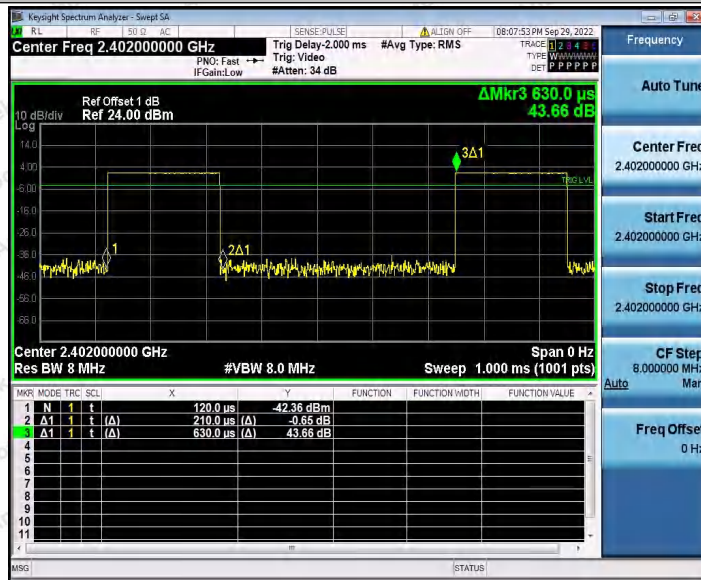
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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BLE_2M_Ant1_2402



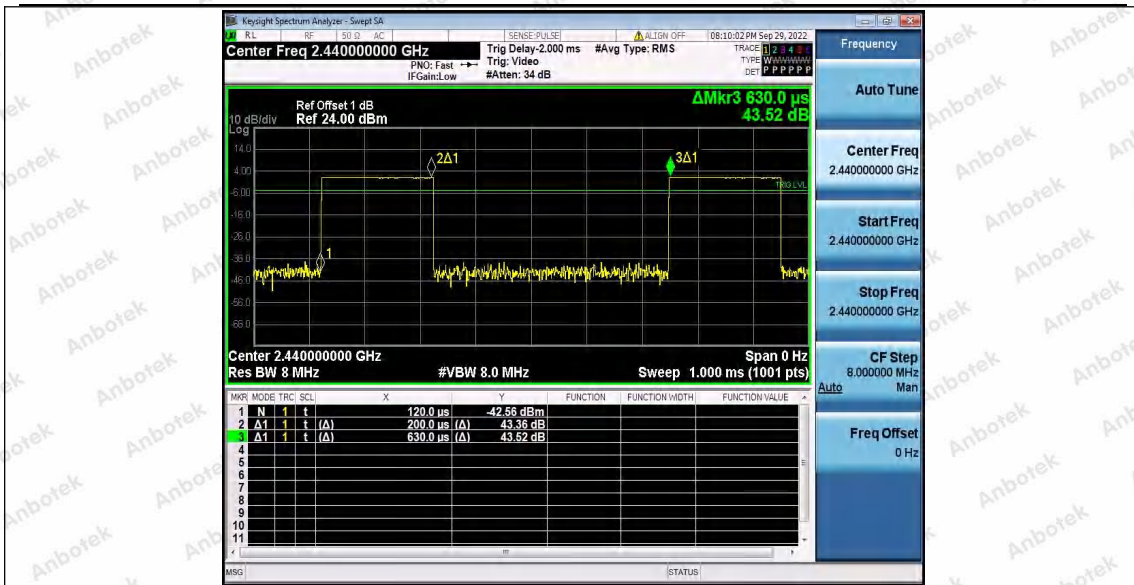
BLE_2M_Ant1_2440

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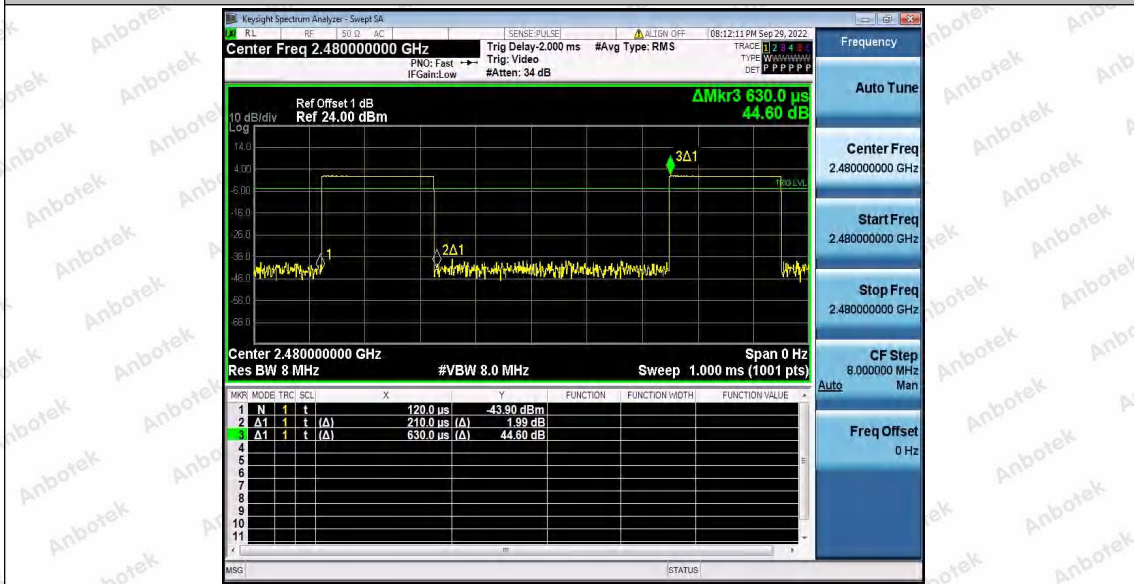
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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BLE_2M_Ant1_2480



---End---

