

Appendix: Bluetooth LE

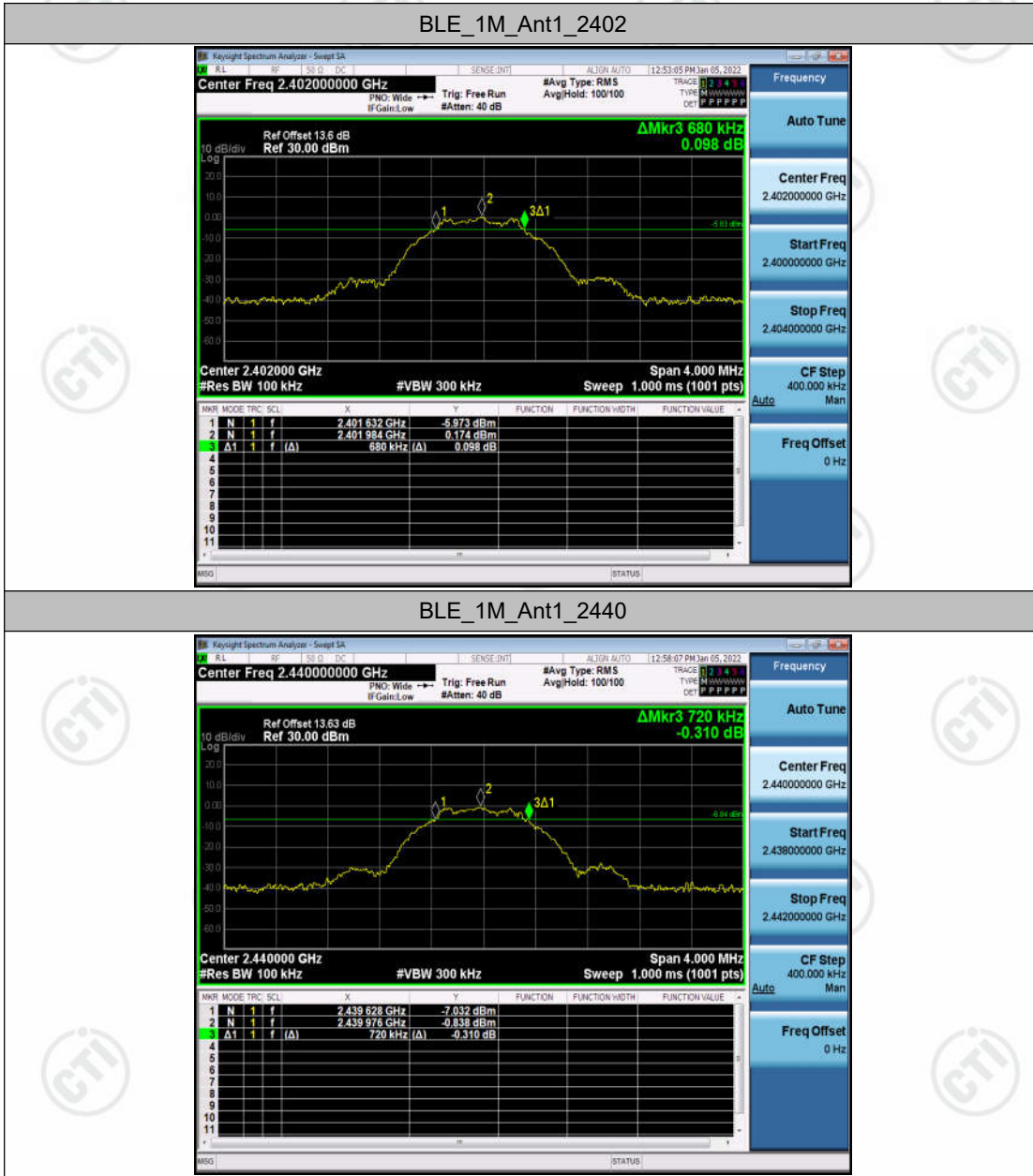
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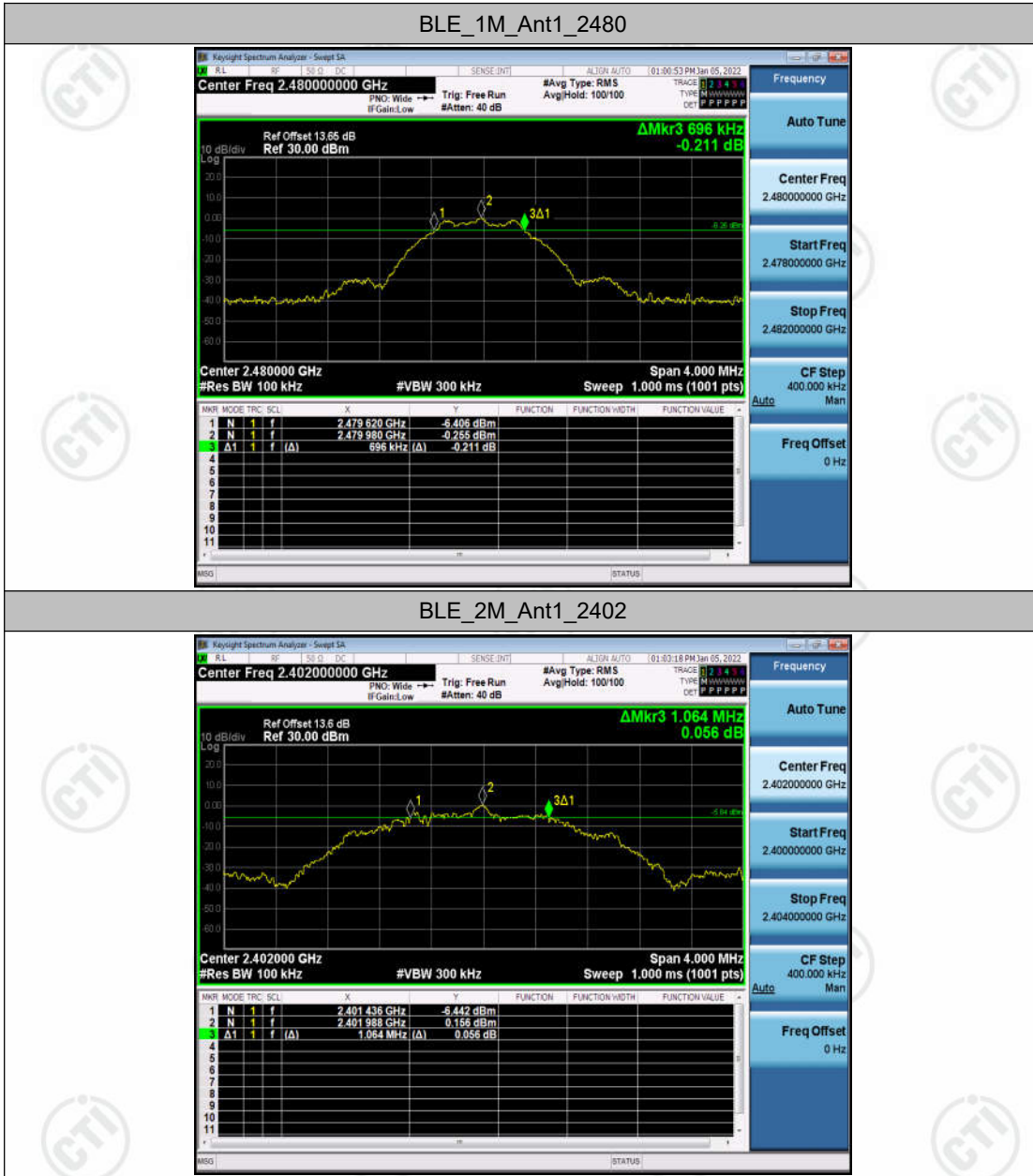
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**Appendix A: DTS Bandwidth****Test Result**

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.680	2401.632	2402.312	0.5	PASS
		2440	0.720	2439.628	2440.348	0.5	PASS
		2480	0.696	2479.620	2480.316	0.5	PASS
BLE_2M	Ant1	2402	1.064	2401.436	2402.500	0.5	PASS
		2440	1.144	2439.408	2440.552	0.5	PASS
		2480	1.132	2479.408	2480.540	0.5	PASS

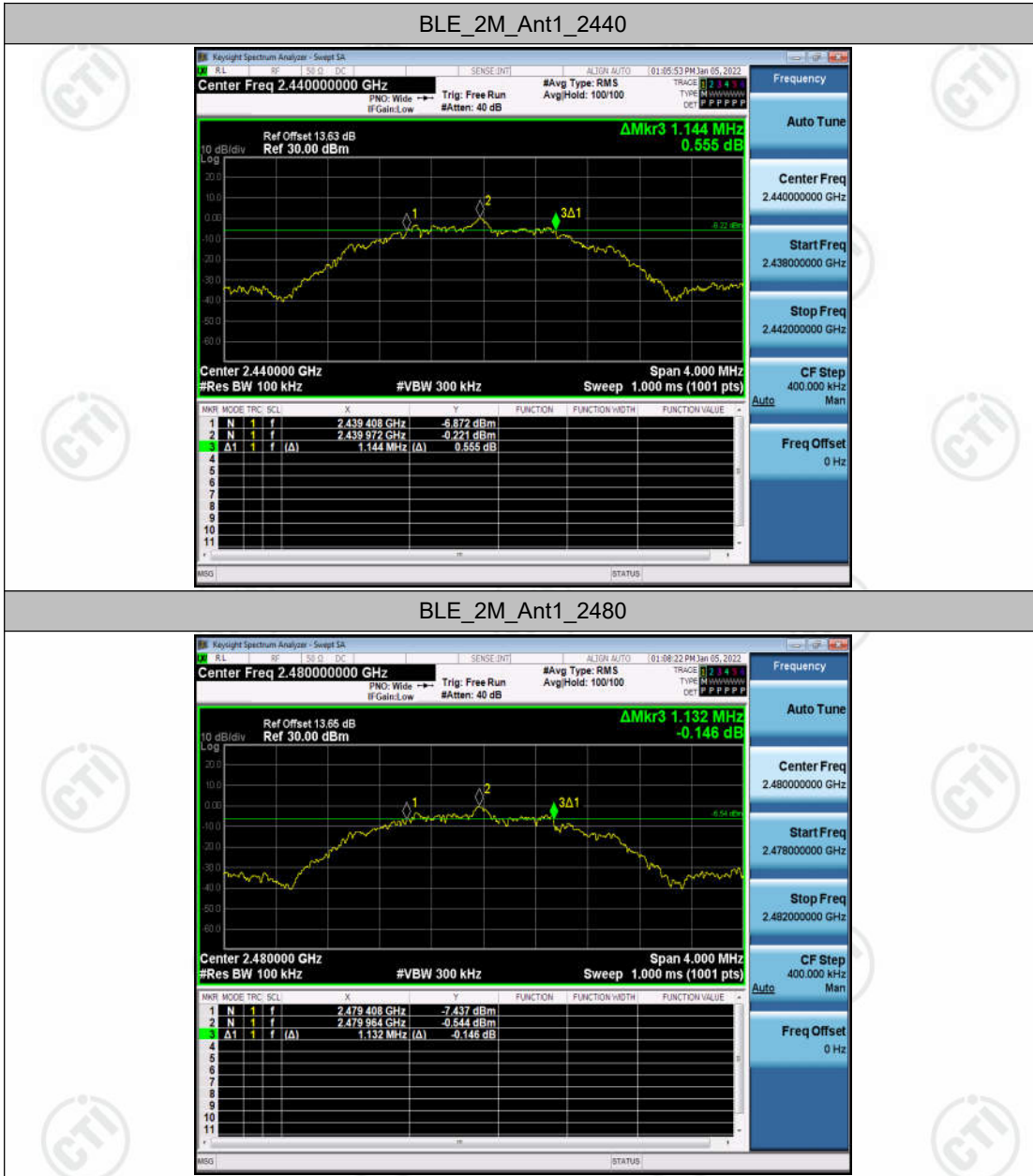
## Test Graphs




**BLE\_2M\_Ant1\_2402**

Frequency	
Auto Tune	
Center Freq	2.40200000 GHz
Start Freq	2.40000000 GHz
Stop Freq	2.40400000 GHz
CF Step	400.000 kHz
Auto	Man
Freq Offset	0 Hz

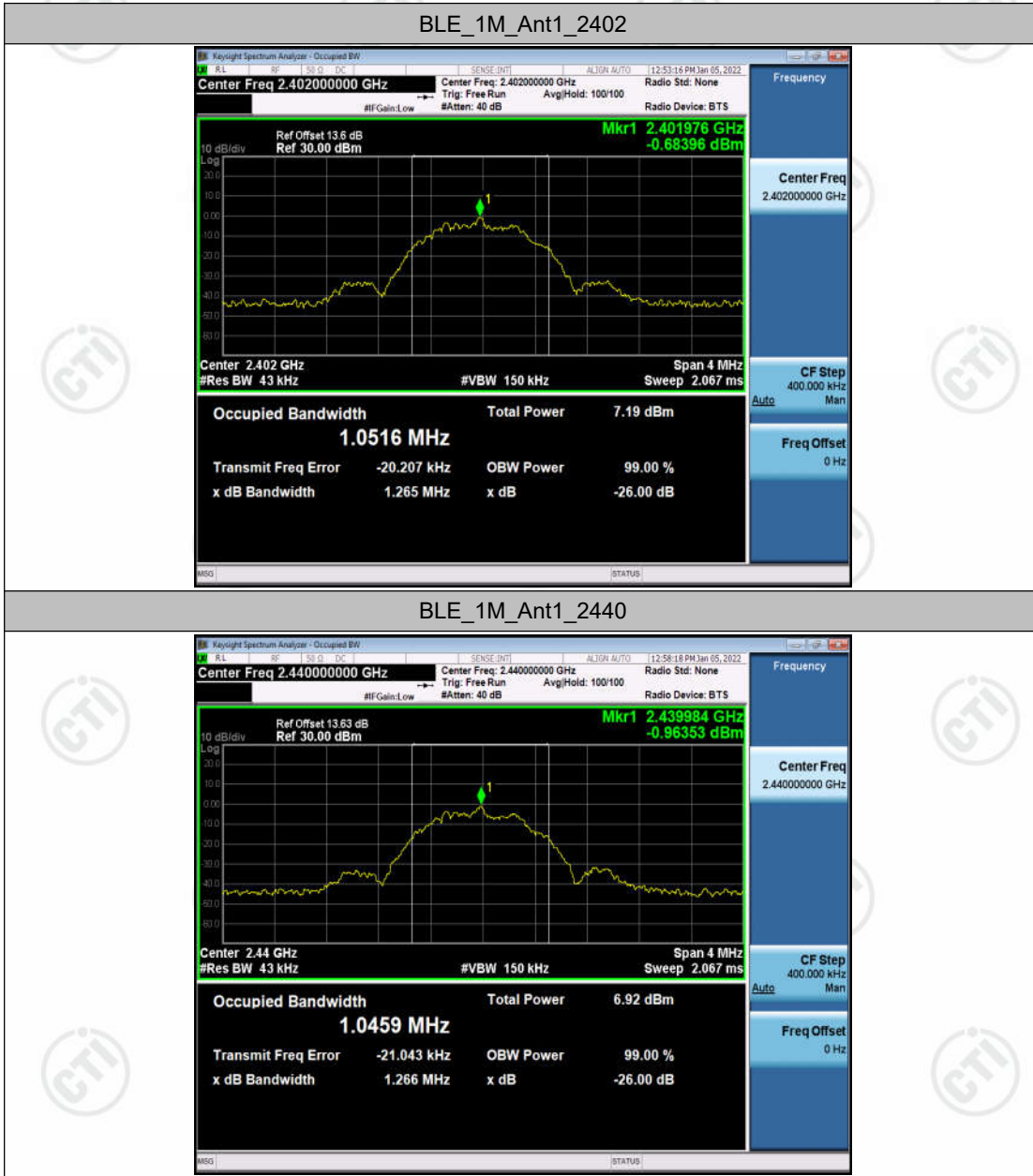




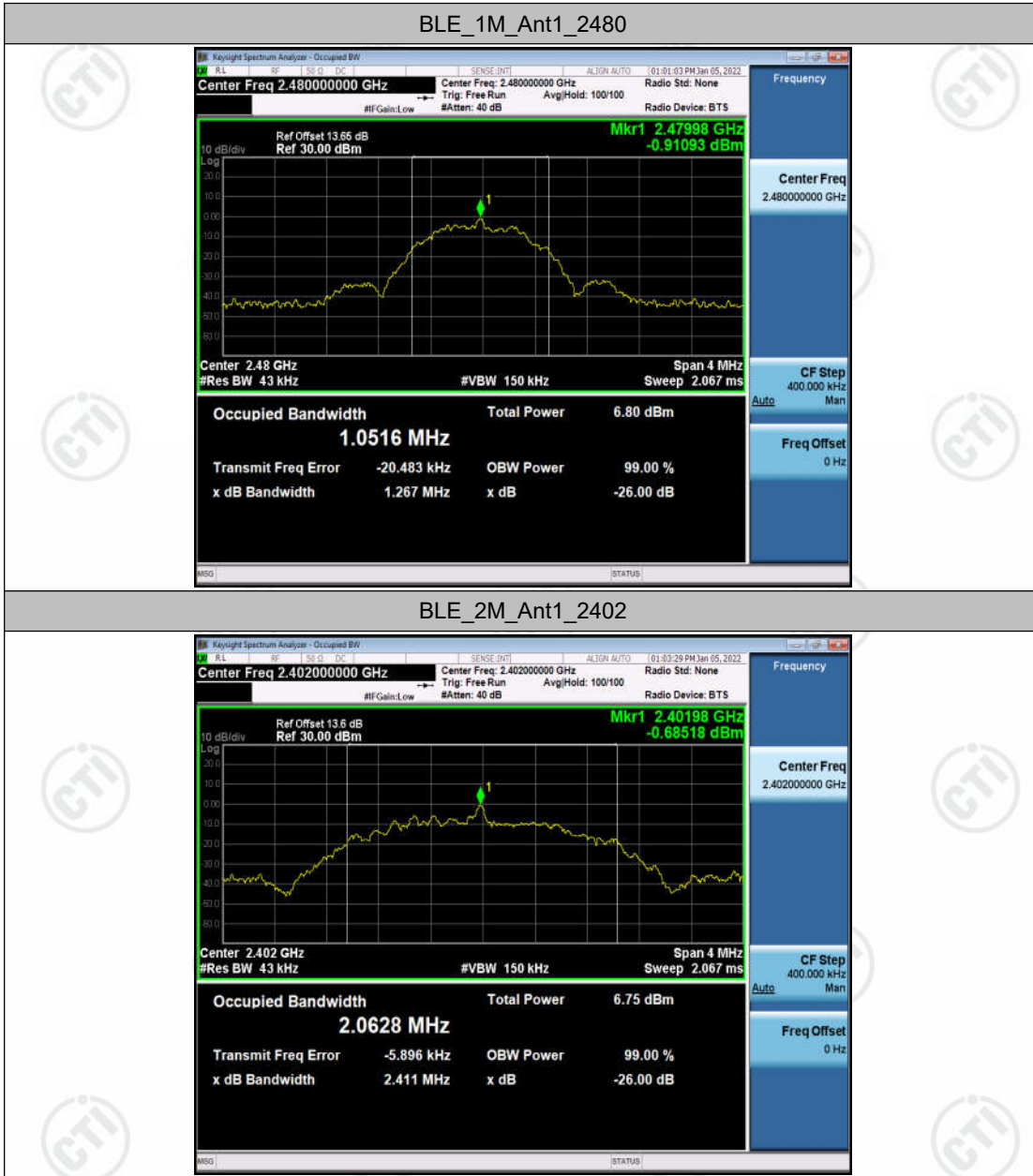
**Appendix B: Occupied Channel Bandwidth****Test Result**

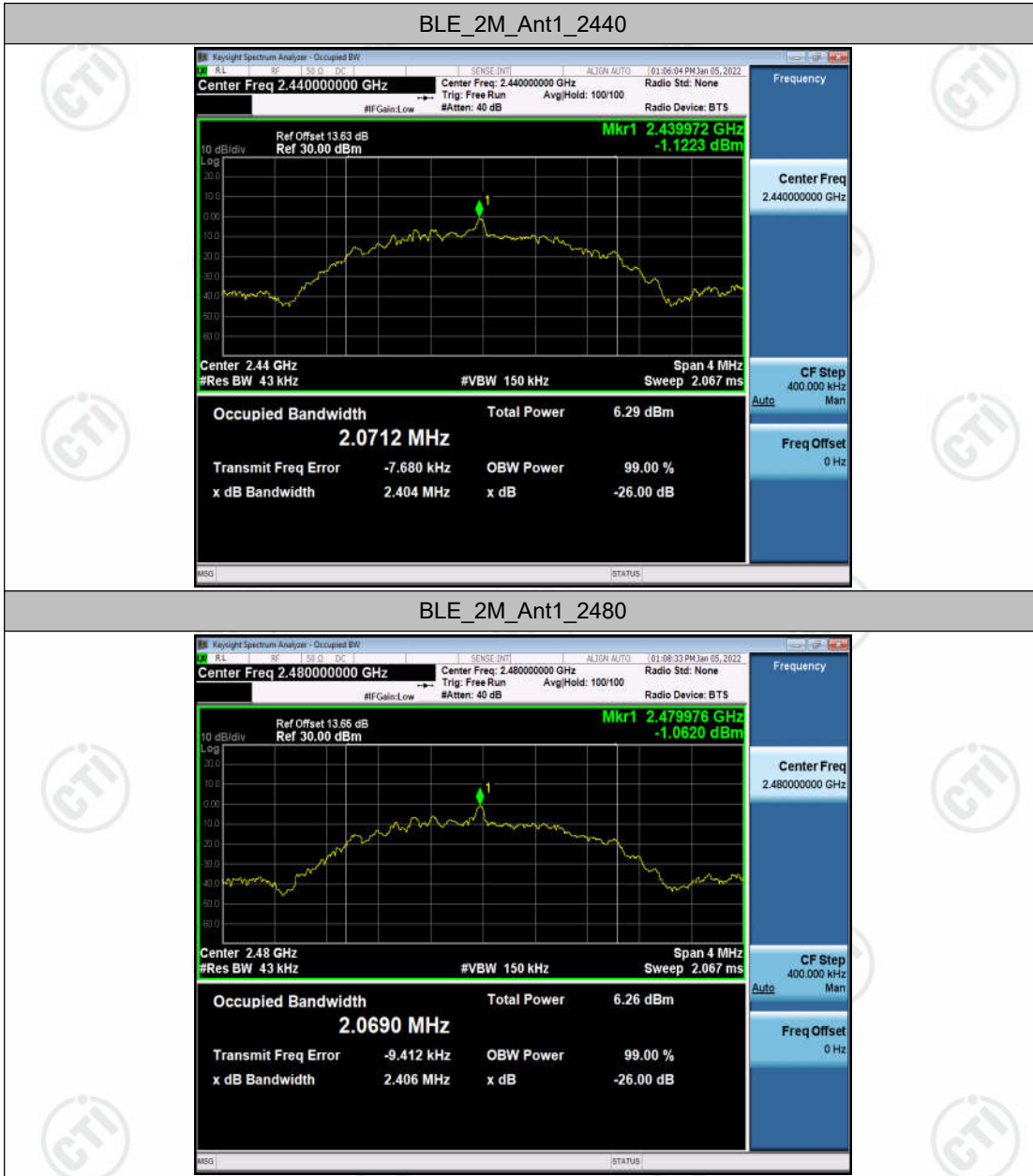
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0516	2401.454	2402.506	---	PASS
		2440	1.0459	2439.456	2440.502	---	PASS
		2480	1.0516	2479.454	2480.505	---	PASS
BLE_2M	Ant1	2402	2.0628	2400.963	2403.026	---	PASS
		2440	2.0712	2438.957	2441.028	---	PASS
		2480	2.0690	2478.956	2481.025	---	PASS

## Test Graphs





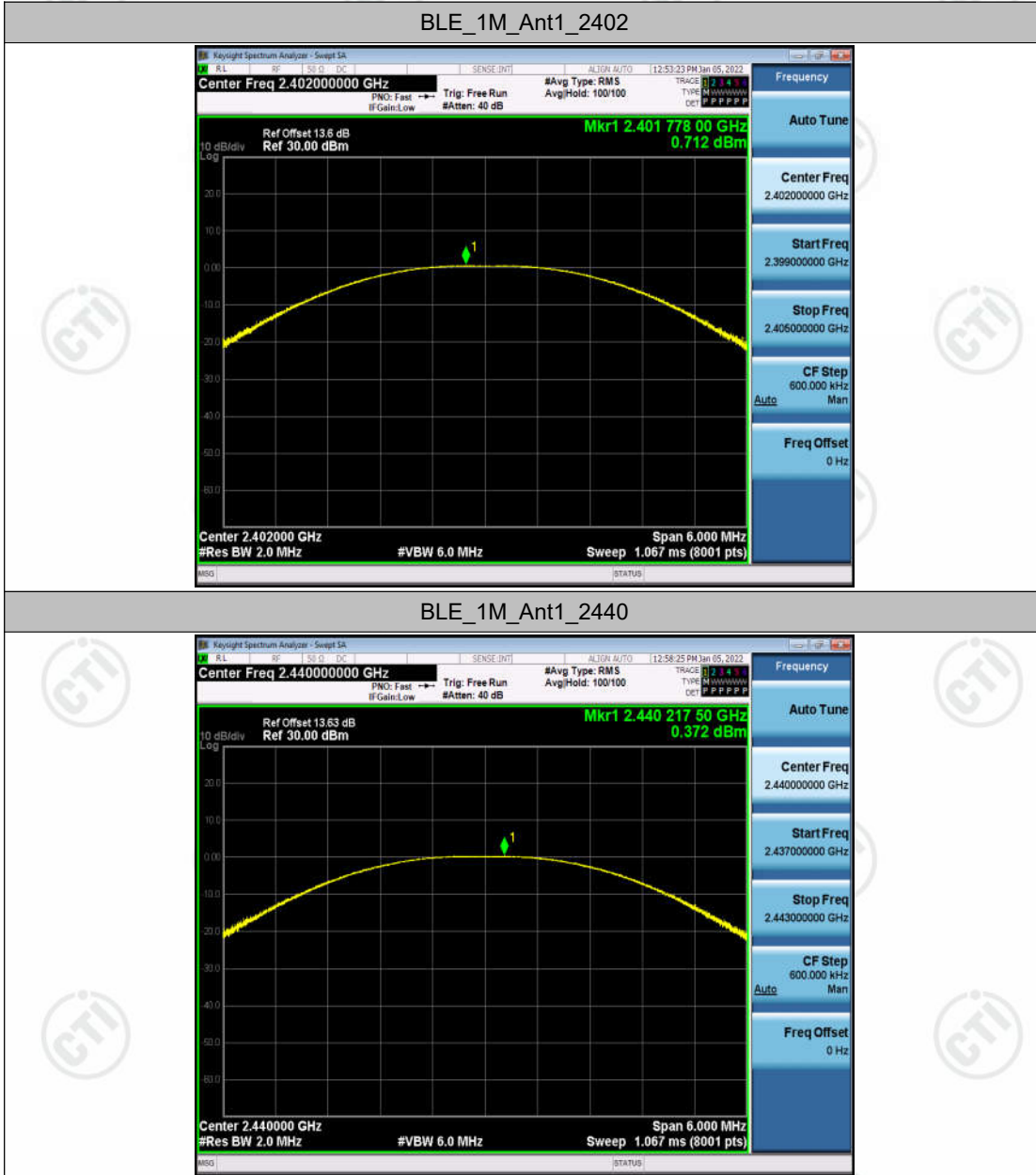


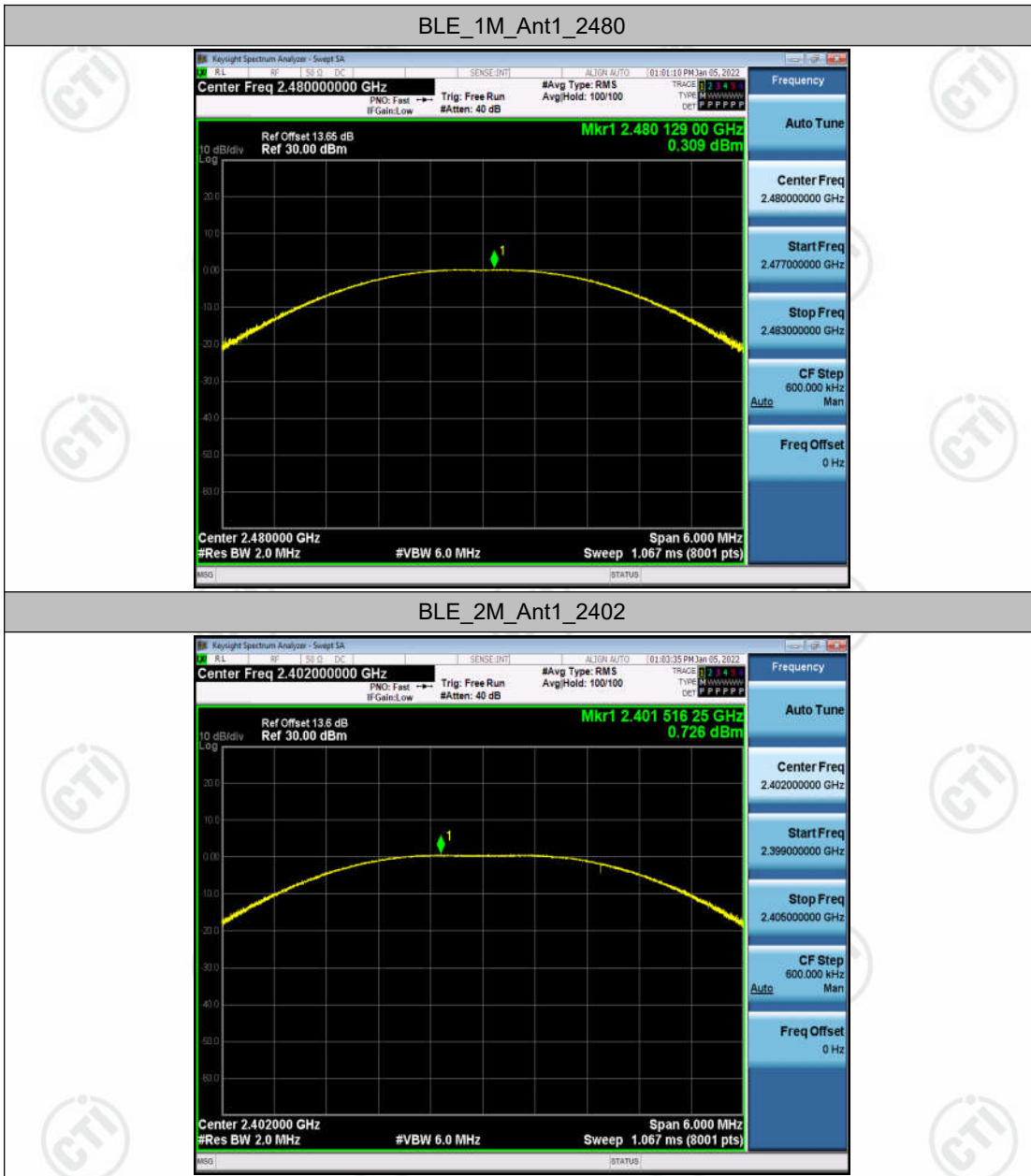


**Appendix C: Maximum conducted output power****Test Result**

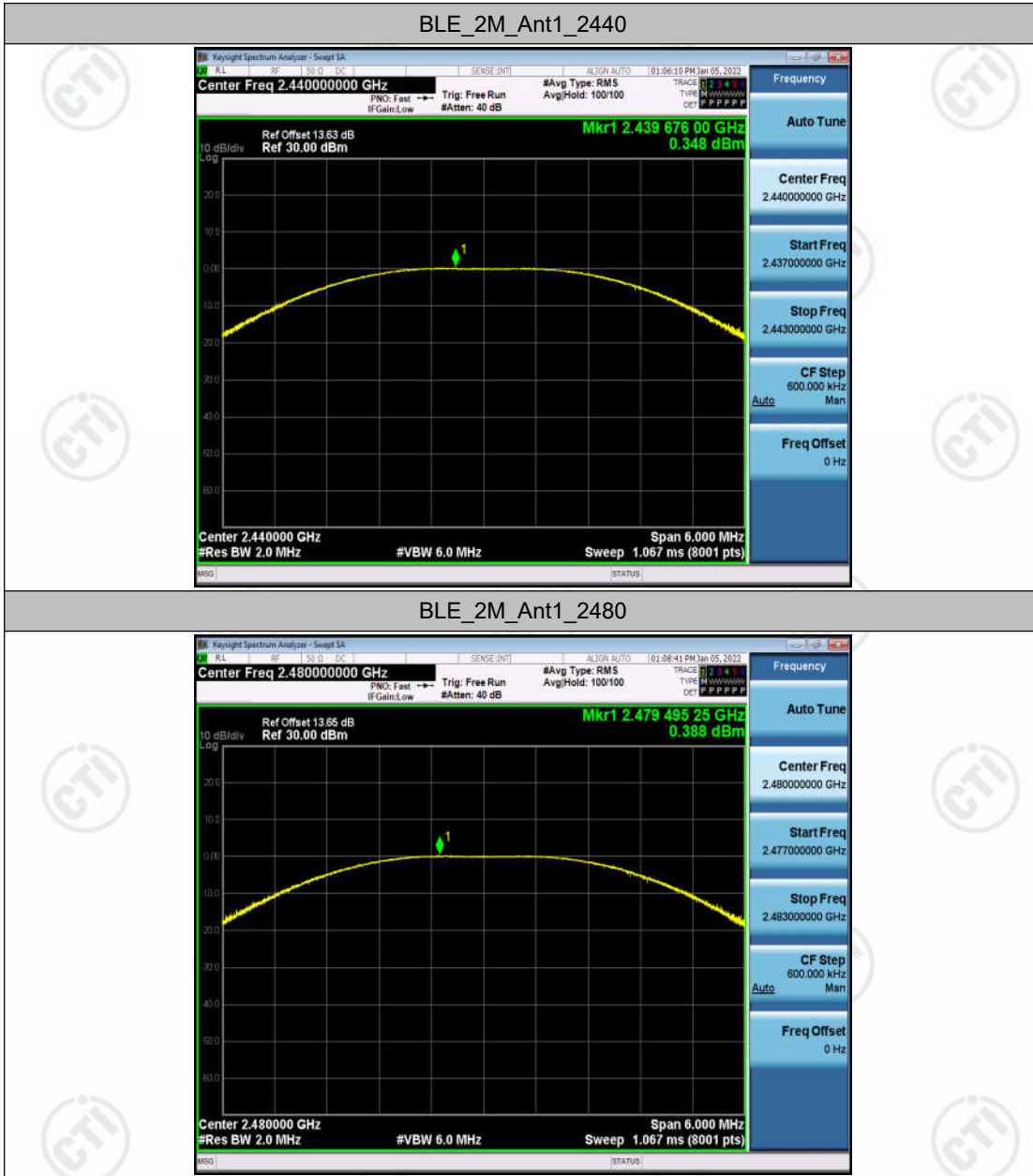
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.71	<=30	PASS
		2440	0.37	<=30	PASS
		2480	0.31	<=30	PASS
BLE_2M	Ant1	2402	0.73	<=30	PASS
		2440	0.35	<=30	PASS
		2480	0.39	<=30	PASS

## Test Graphs





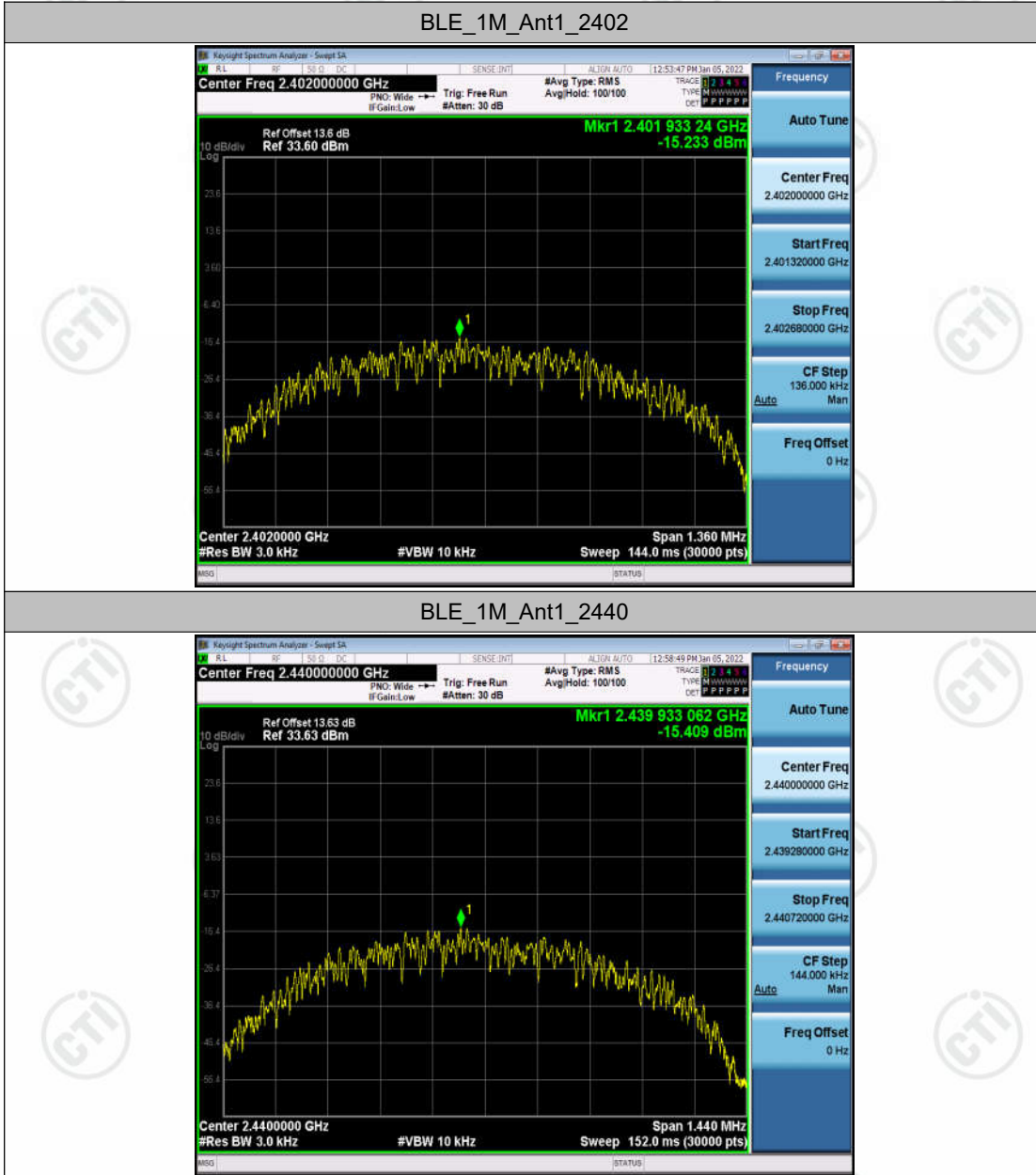


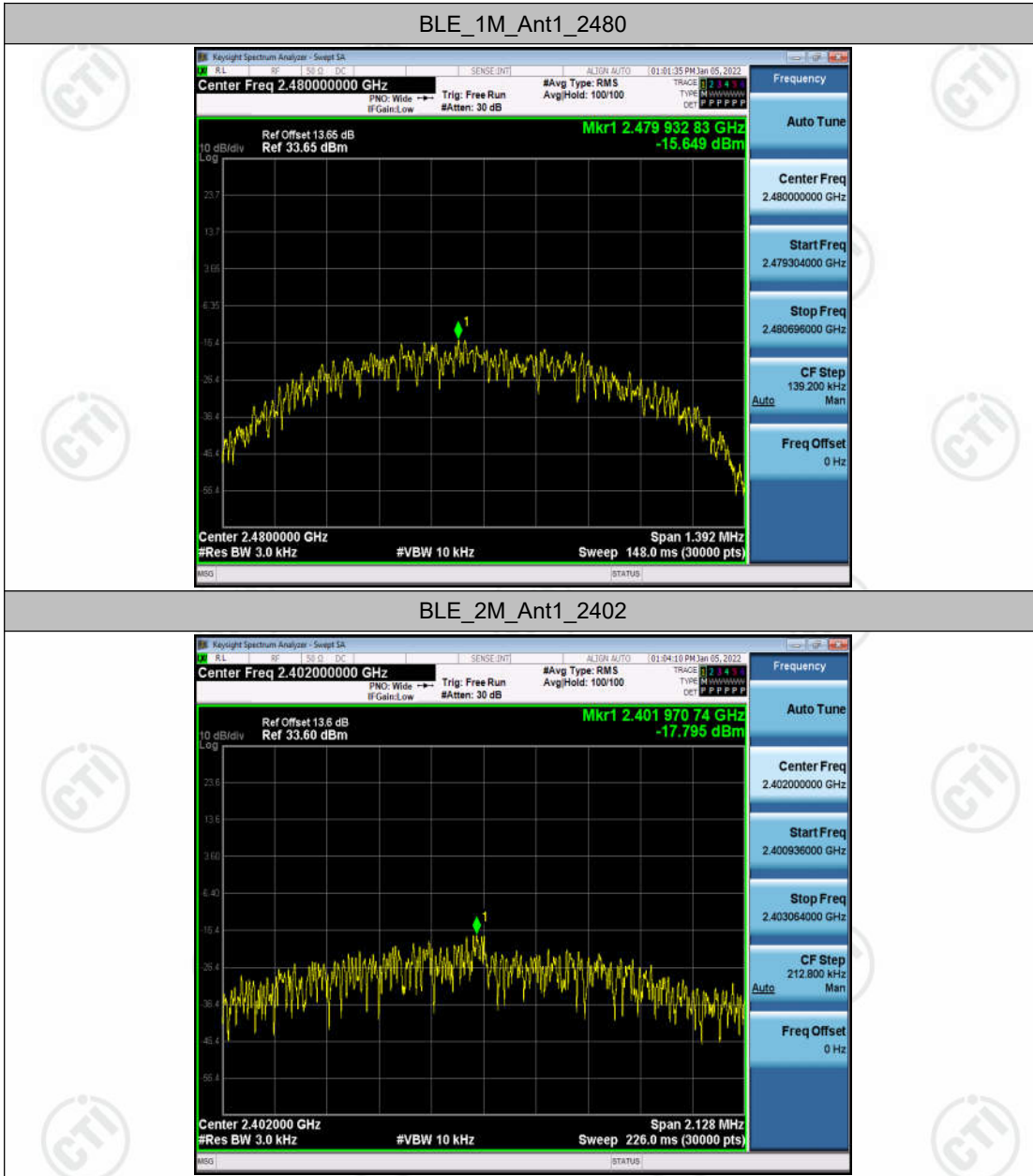


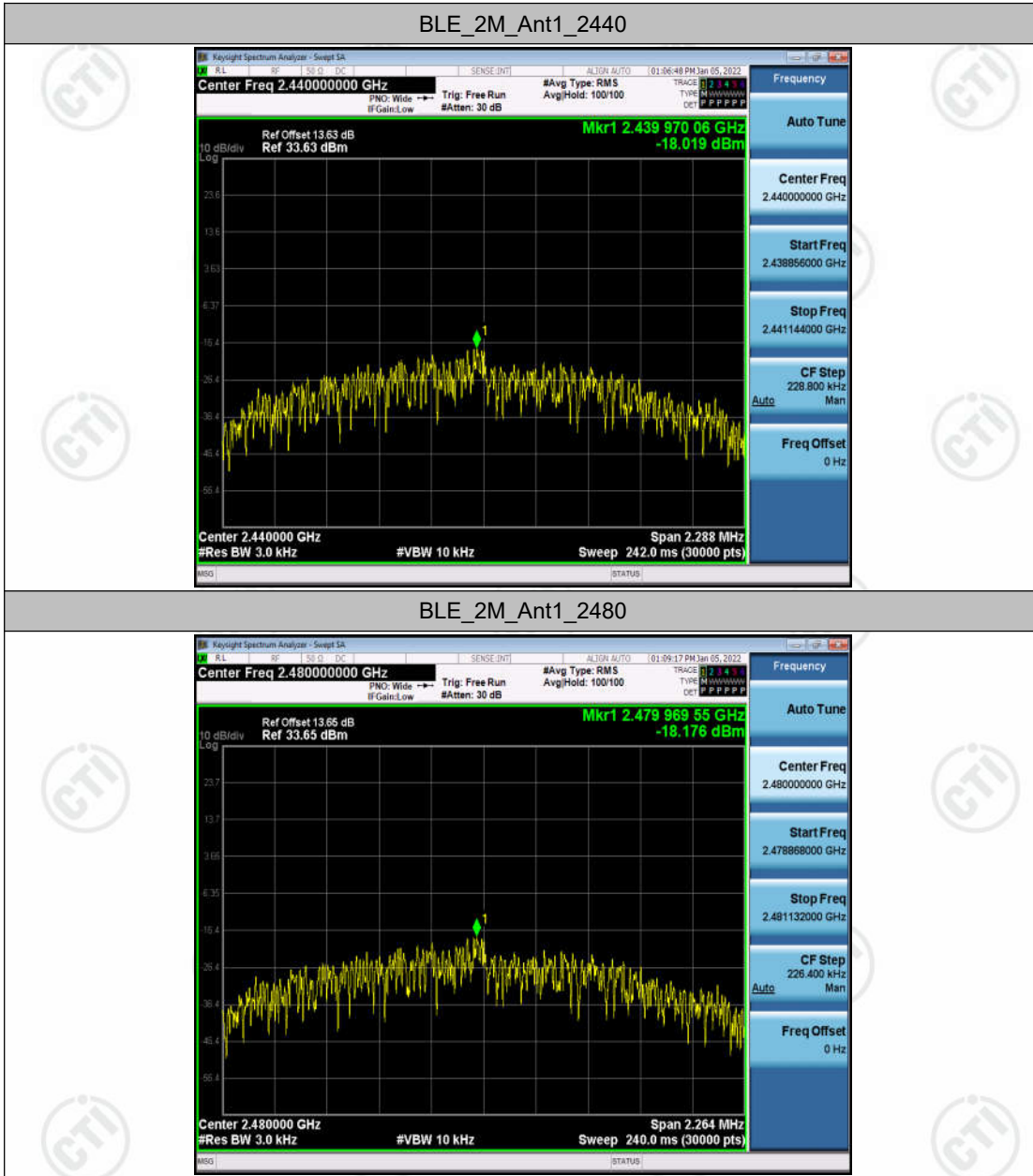
**Appendix D: Maximum power spectral density****Test Result**

Test Mode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.23	<=8	PASS
		2440	-15.41	<=8	PASS
		2480	-15.65	<=8	PASS
BLE_2M	Ant1	2402	-17.8	<=8	PASS
		2440	-18.02	<=8	PASS
		2480	-18.18	<=8	PASS

## Test Graphs





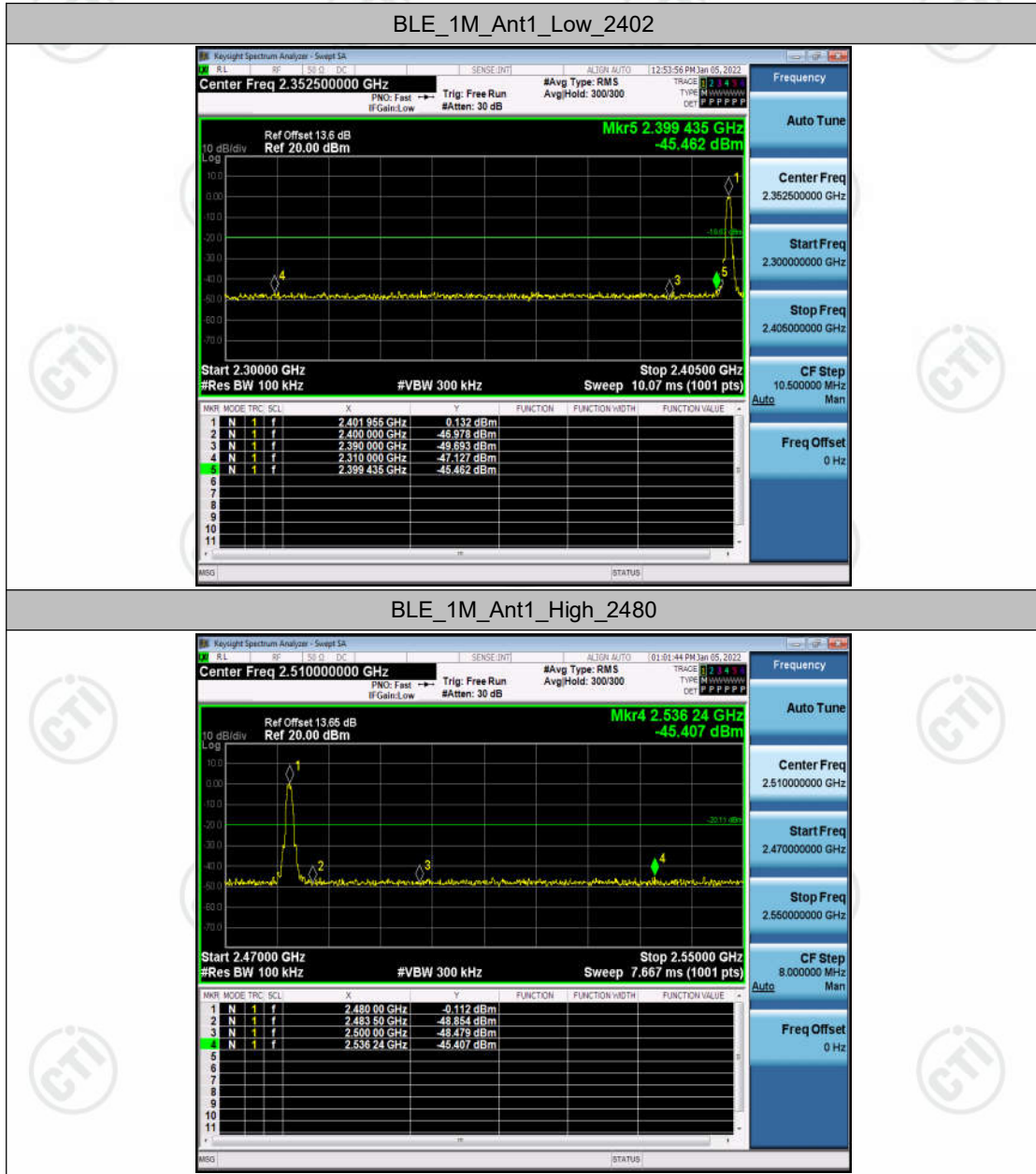


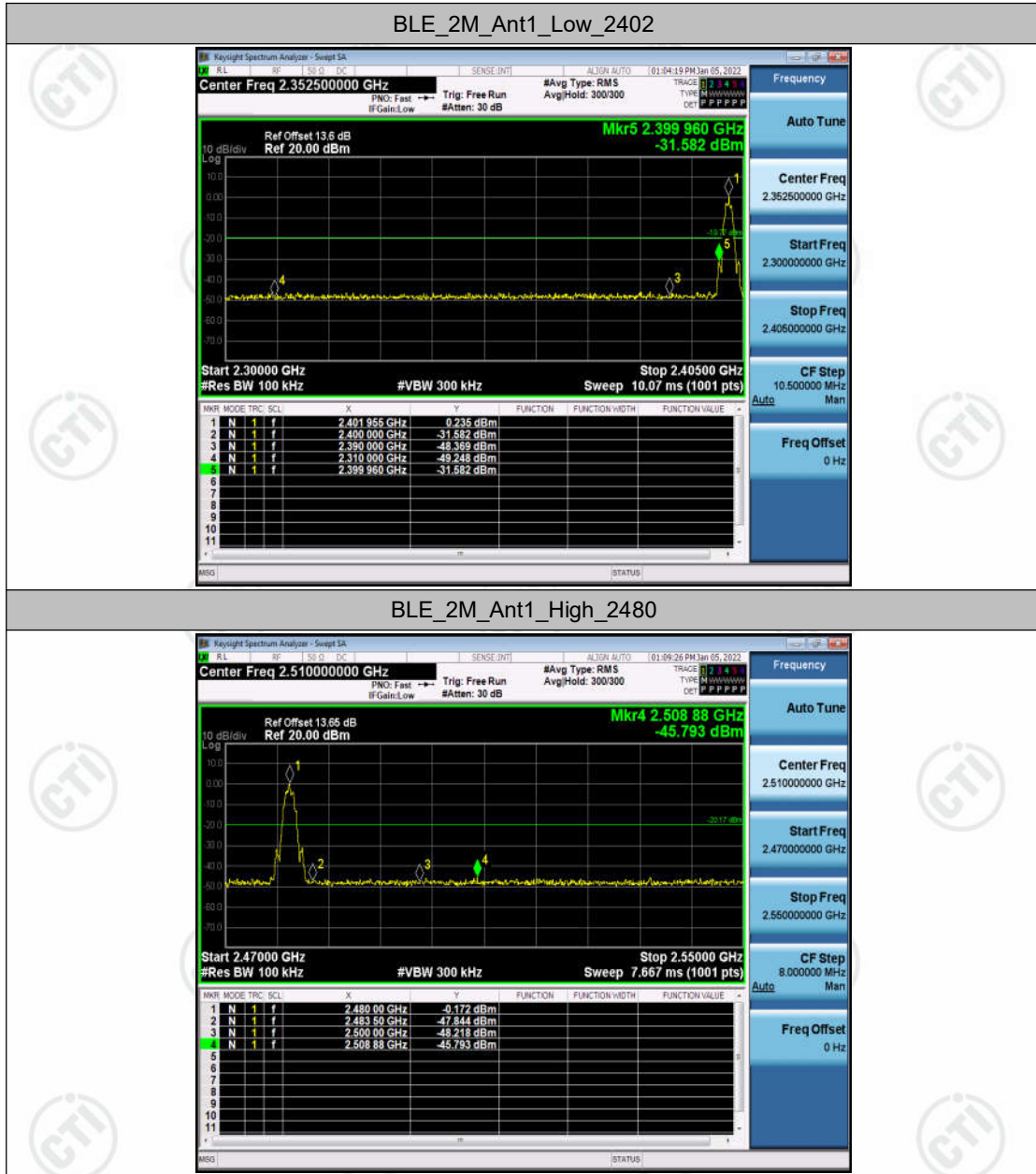


**Appendix E: Band edge measurements****Test Result**

Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.13	-45.46	<=-19.87	PASS
		High	2480	-0.11	-45.41	<=-20.11	PASS
BLE_2M	Ant1	Low	2402	0.24	-31.58	<=-19.77	PASS
		High	2480	-0.17	-45.79	<=-20.17	PASS

## Test Graphs



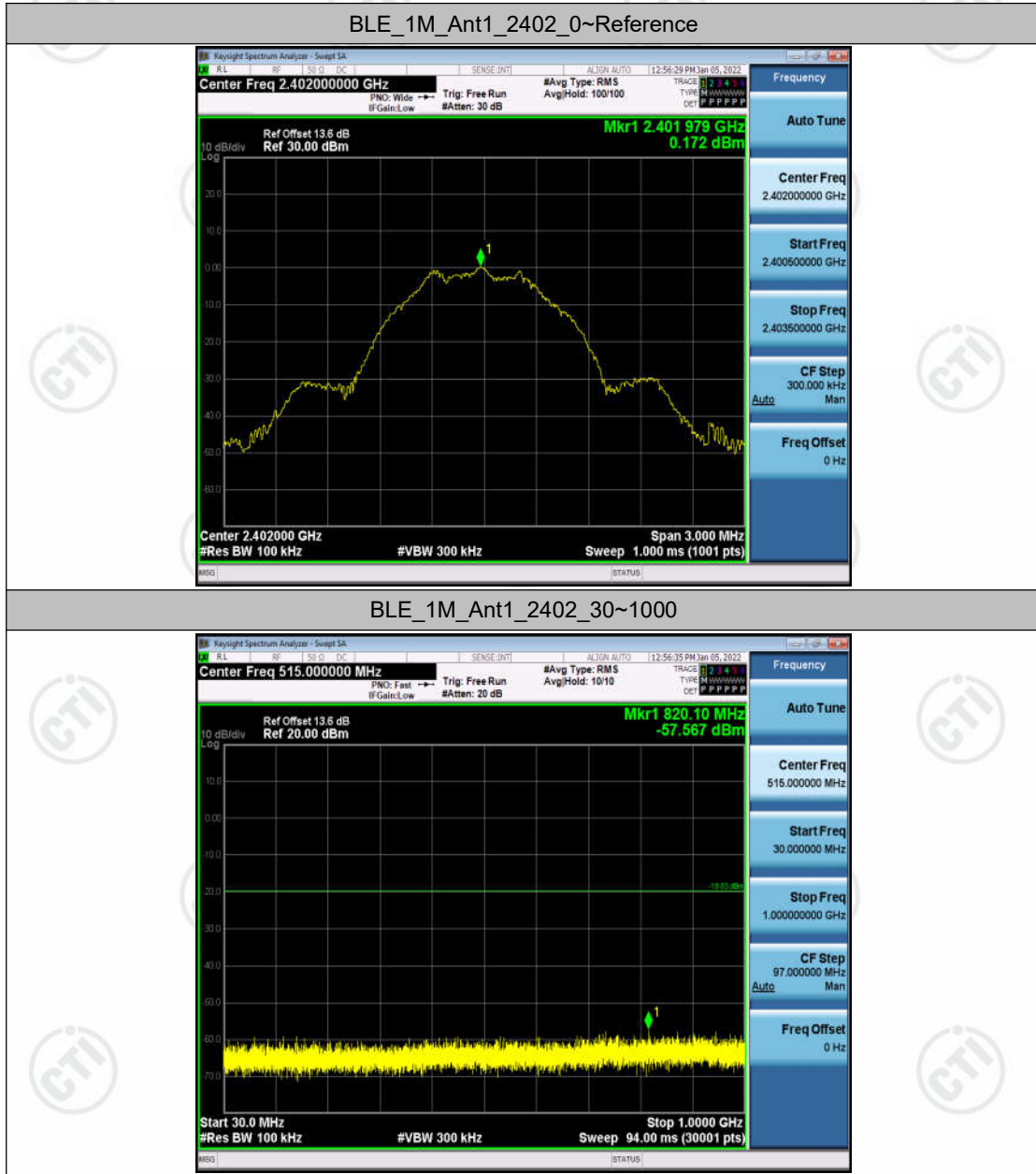


## Appendix F: Conducted Spurious Emission

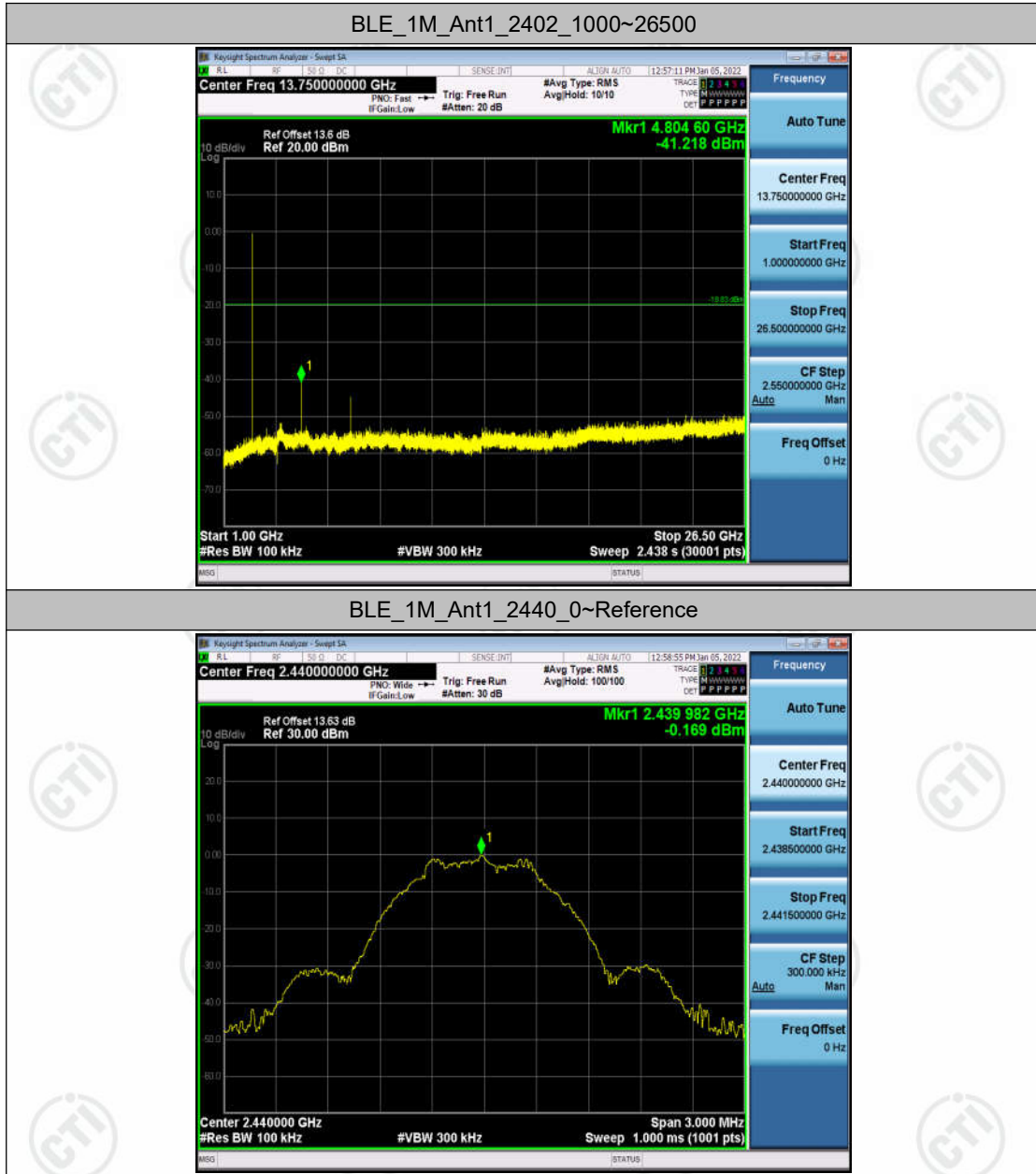
### Test Result

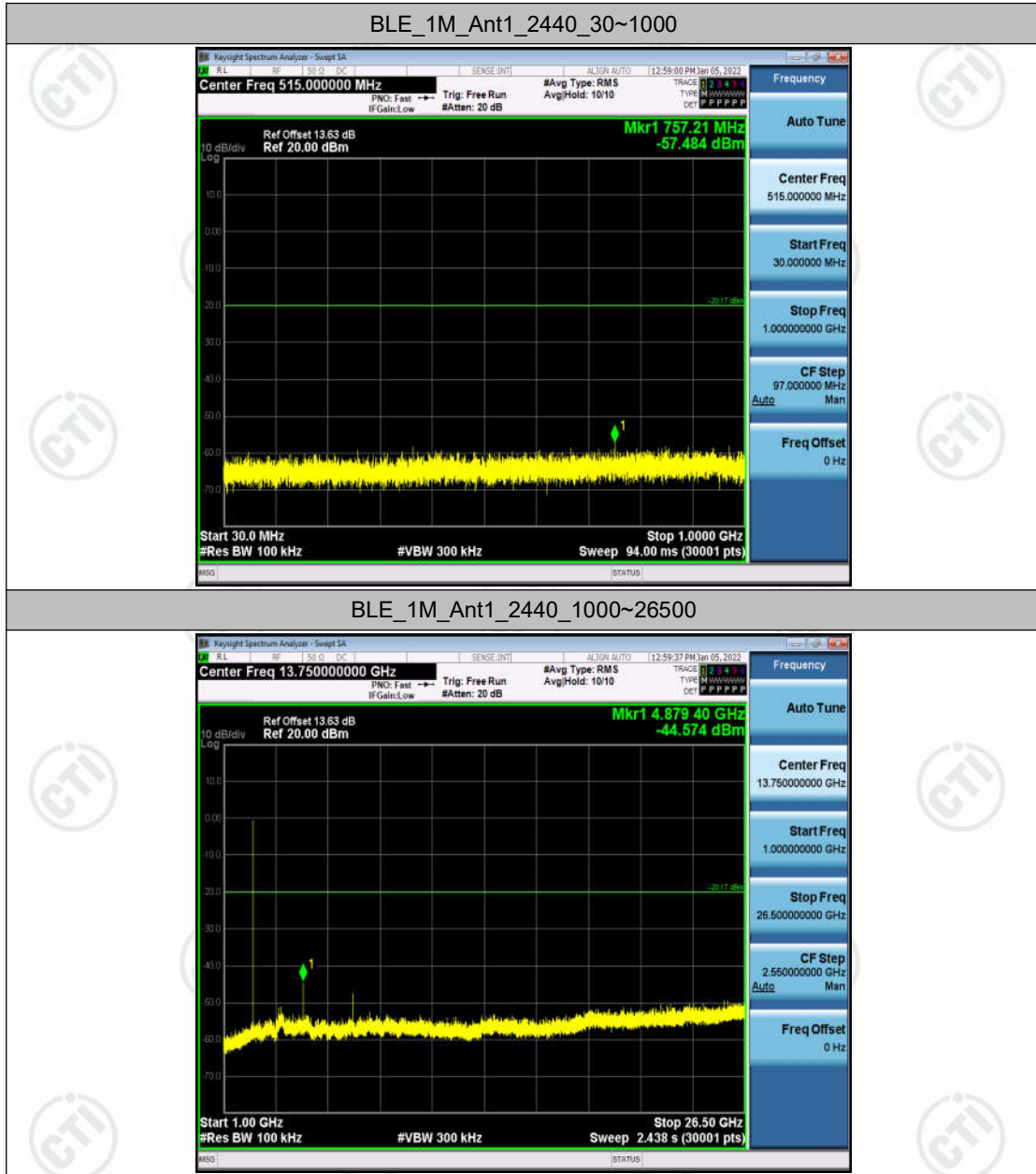
Test Mode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.17	0.17	---	PASS
			30~1000	---	-57.567	<=-19.828	PASS
			1000~26500	---	-41.218	<=-19.828	PASS
		2440	Reference	-0.17	-0.17	---	PASS
			30~1000	---	-57.484	<=-20.169	PASS
			1000~26500	---	-44.574	<=-20.169	PASS
		2480	Reference	-0.64	-0.64	---	PASS
			30~1000	---	-57.387	<=-20.635	PASS
			1000~26500	---	-40.369	<=-20.635	PASS
BLE_2M	Ant1	2402	Reference	0.03	0.03	---	PASS
			30~1000	---	-56.799	<=-19.971	PASS
			1000~26500	---	-46.385	<=-19.971	PASS
		2440	Reference	-0.24	-0.24	---	PASS
			30~1000	---	-57.437	<=-20.241	PASS
			1000~26500	---	-44.036	<=-20.241	PASS
		2480	Reference	-0.32	-0.32	---	PASS
			30~1000	---	-57.848	<=-20.322	PASS
			1000~26500	---	-44.658	<=-20.322	PASS

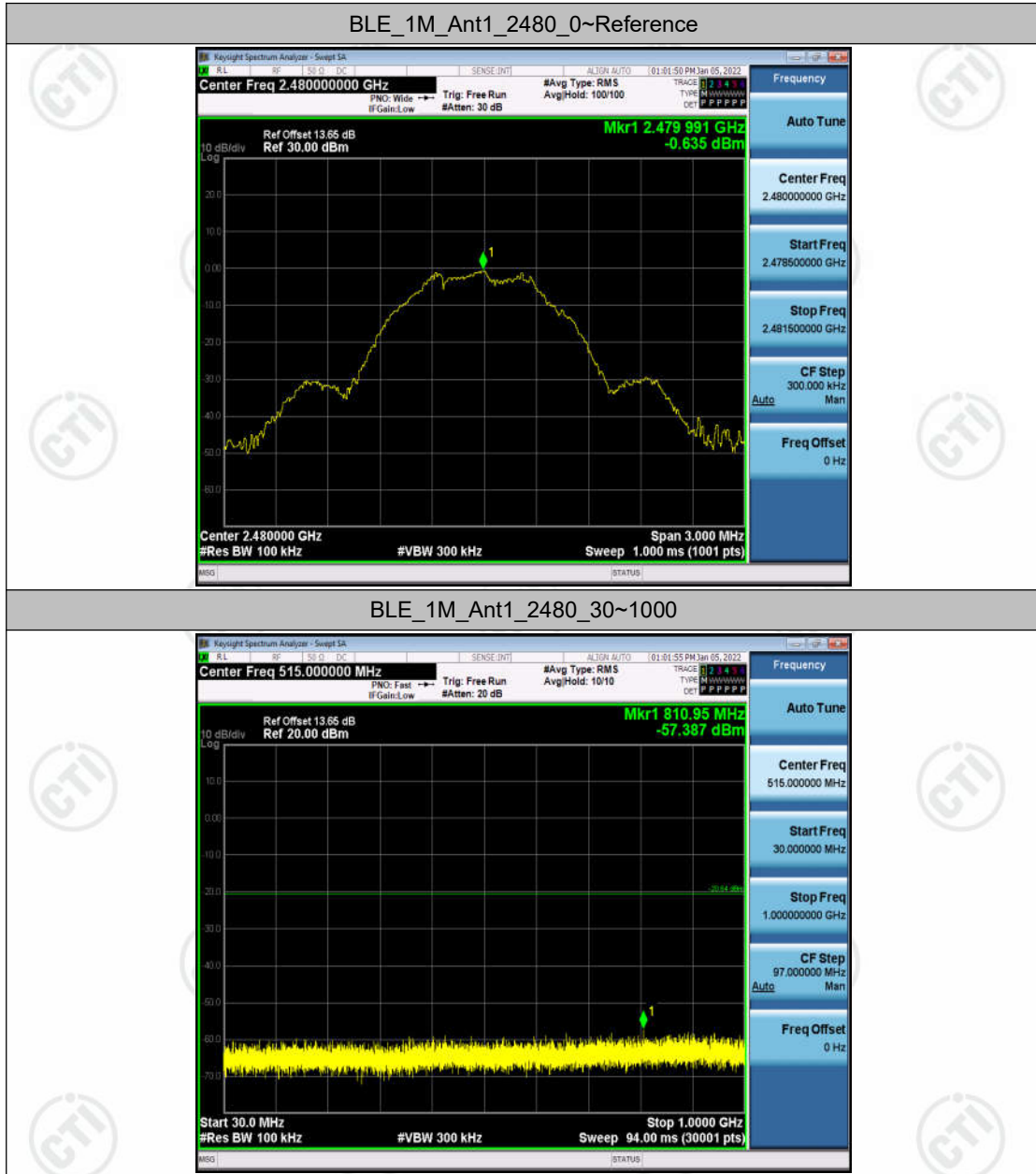
## Test Graphs

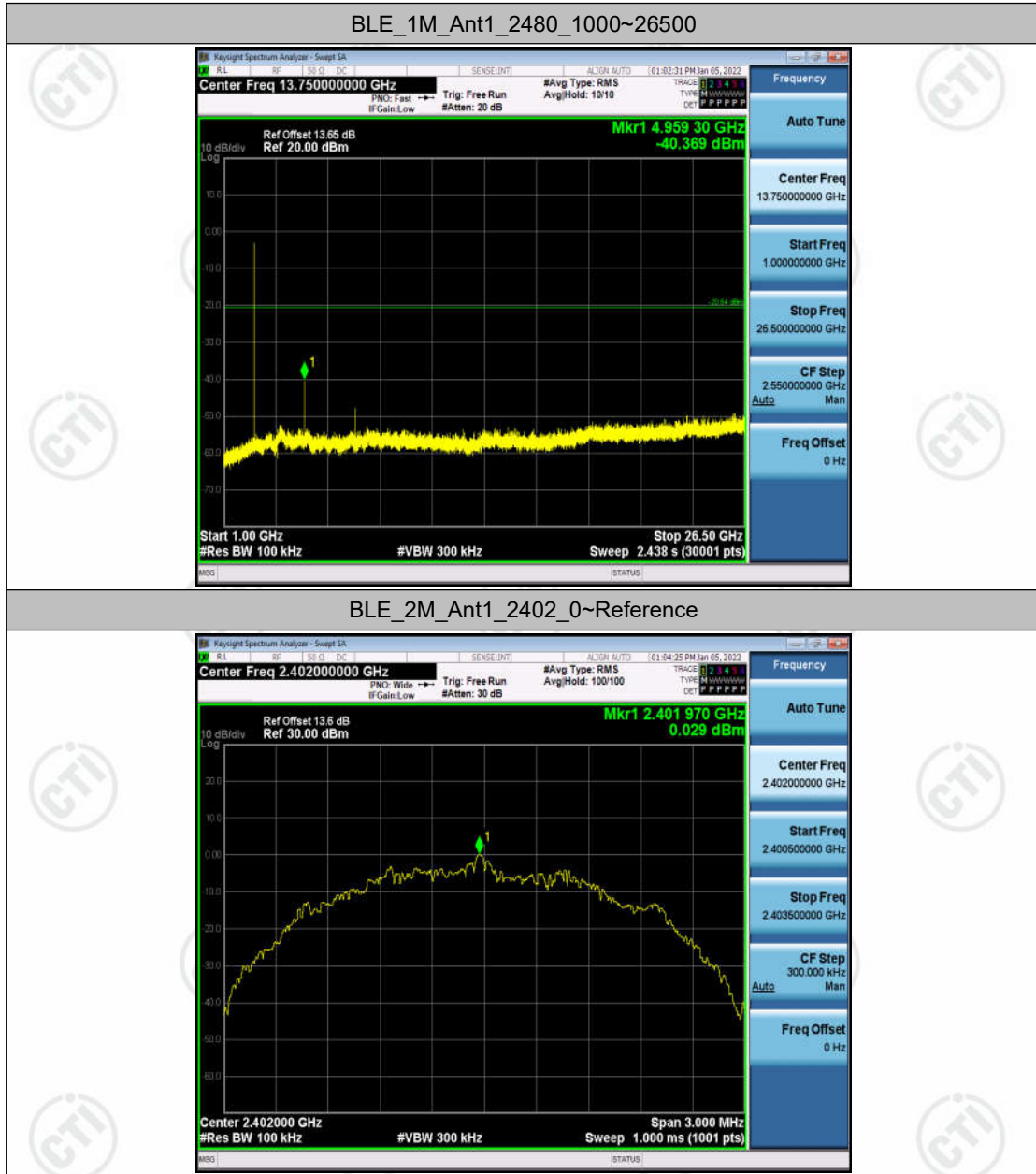




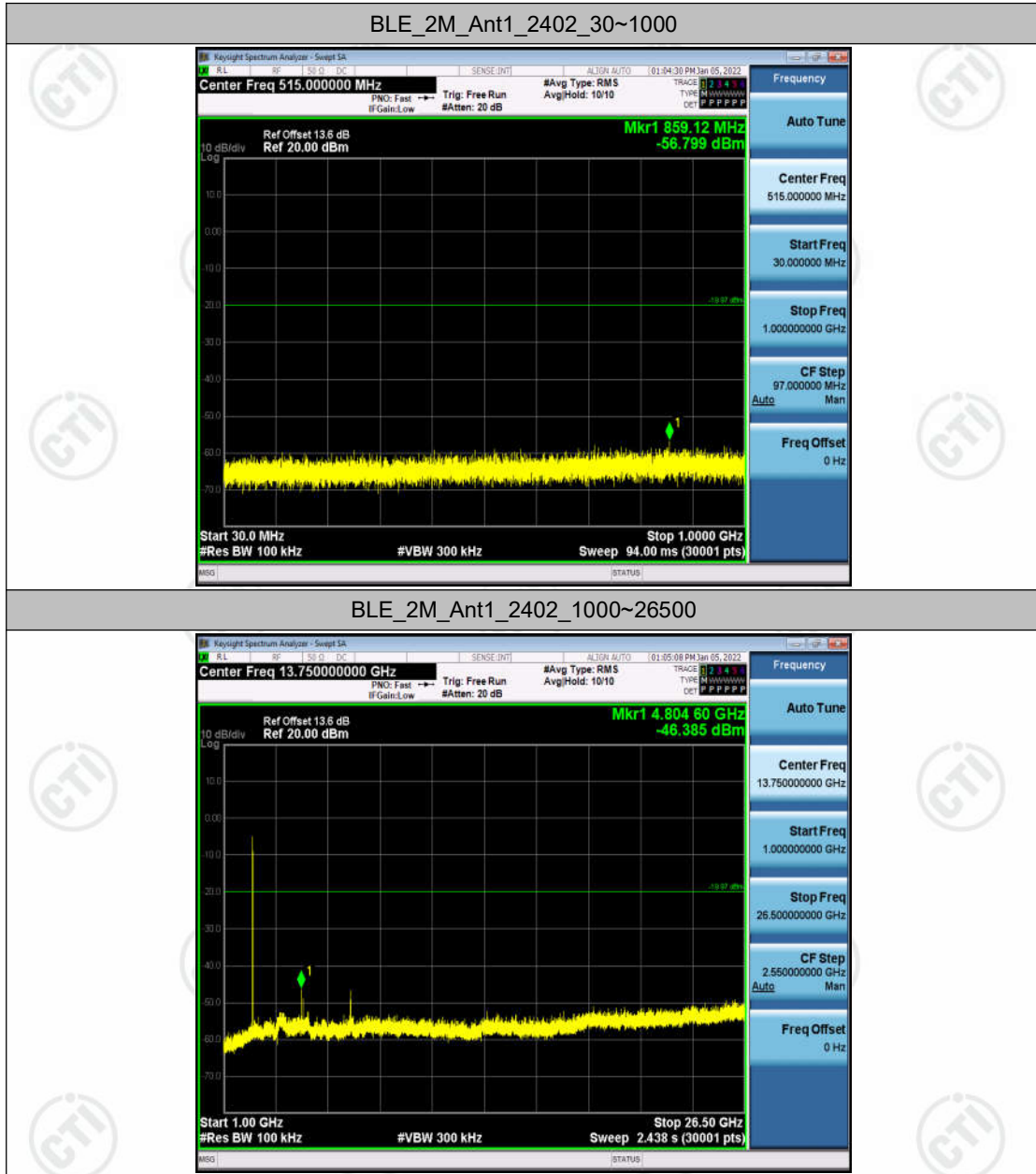




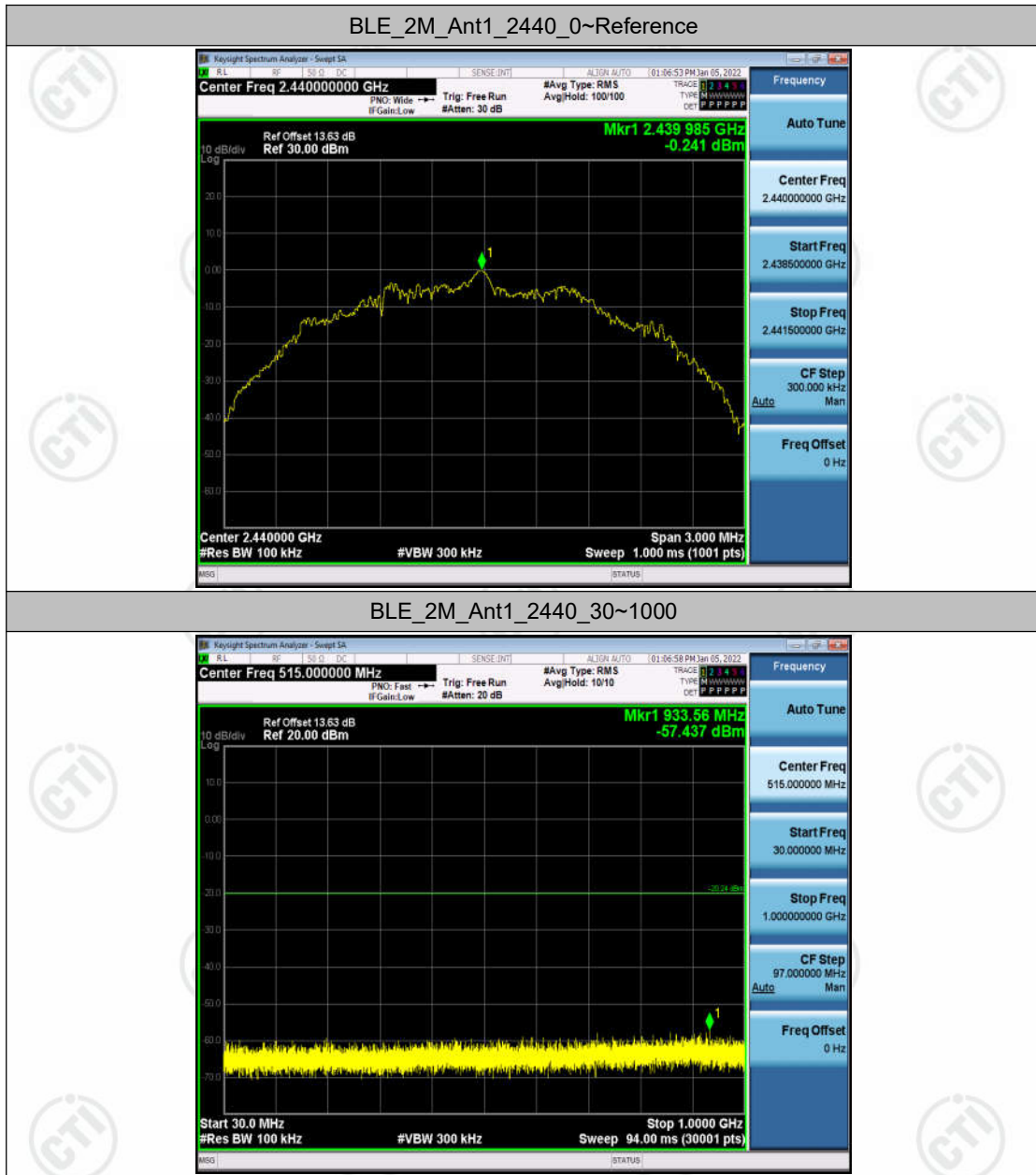


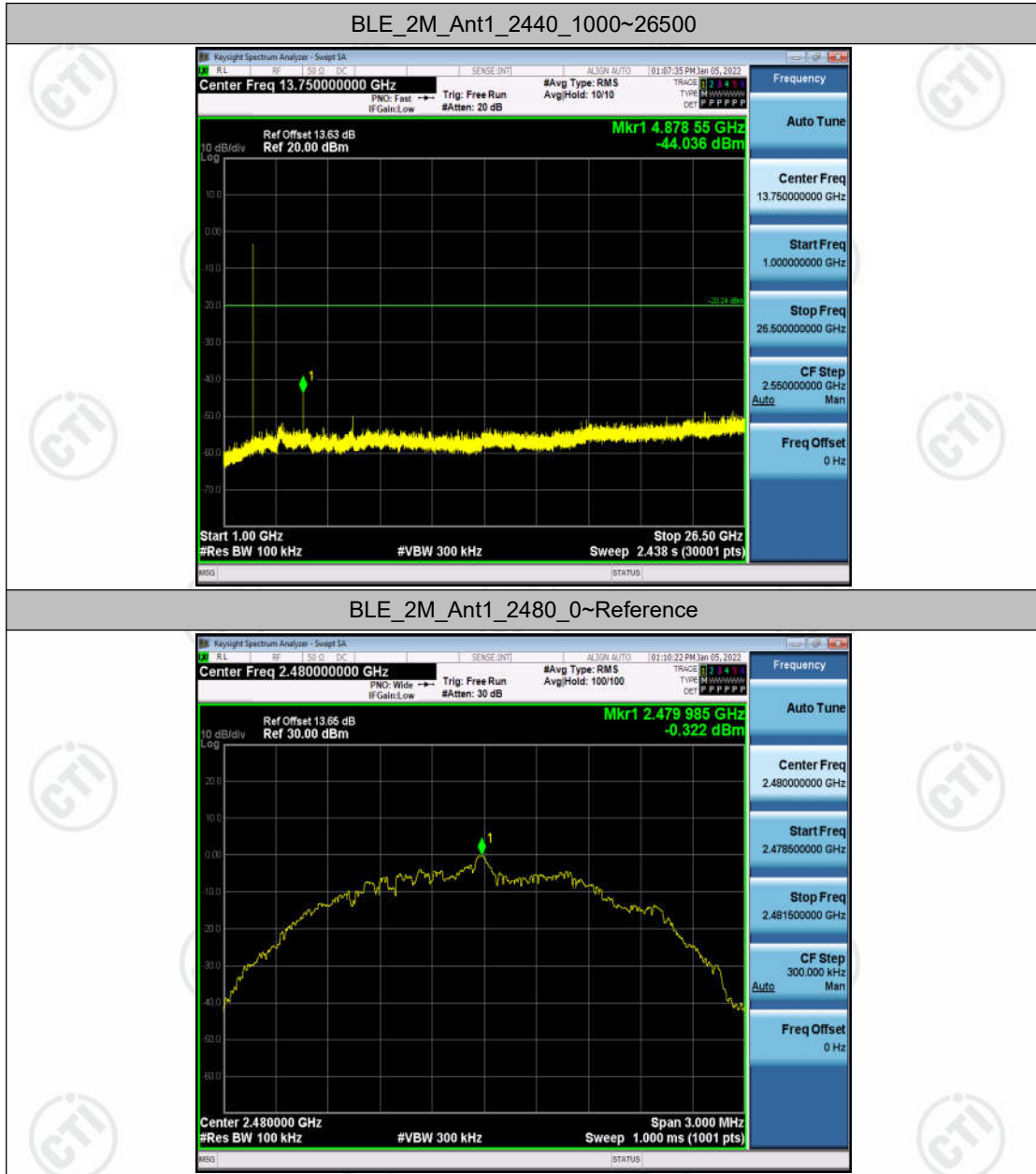


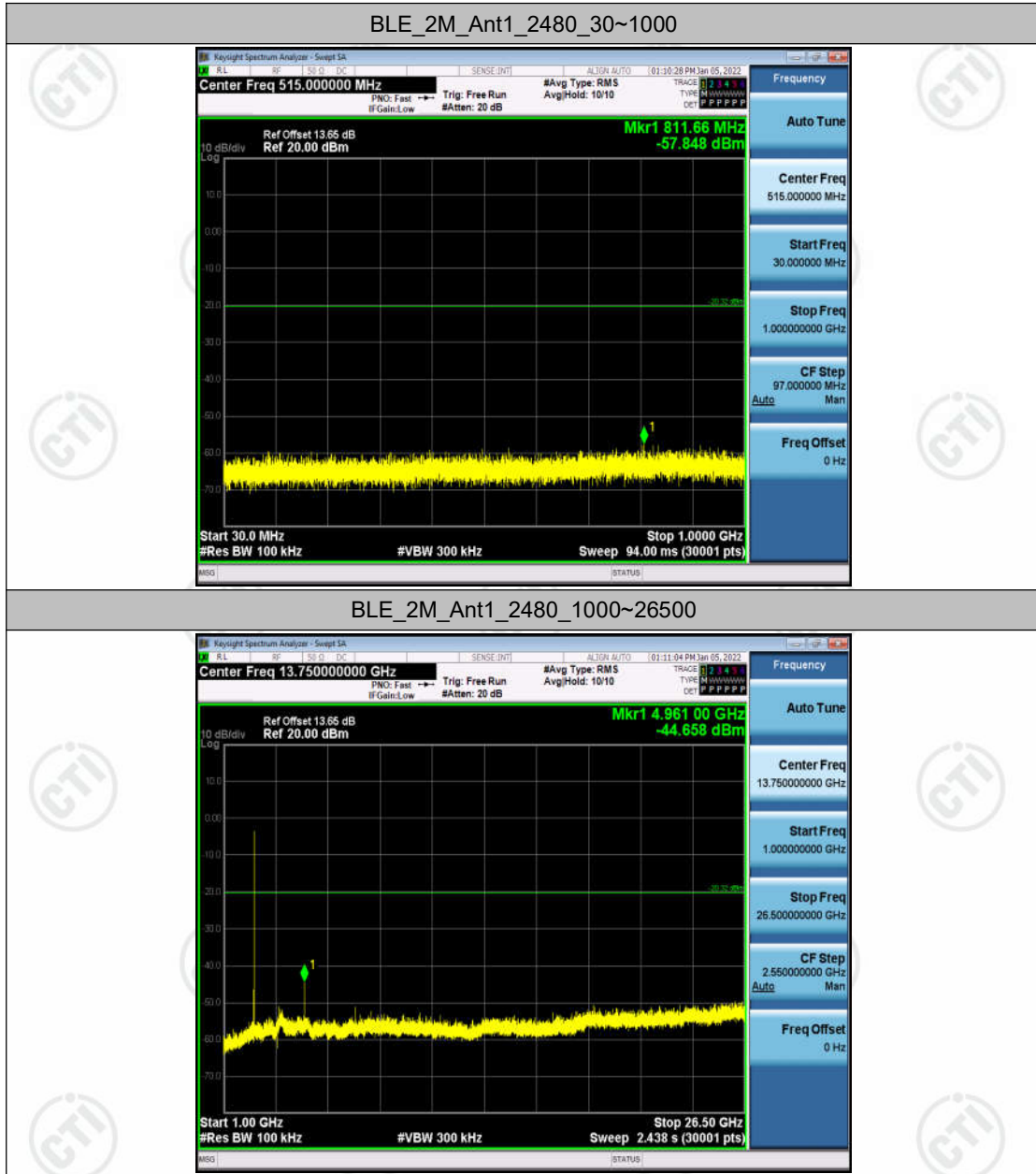








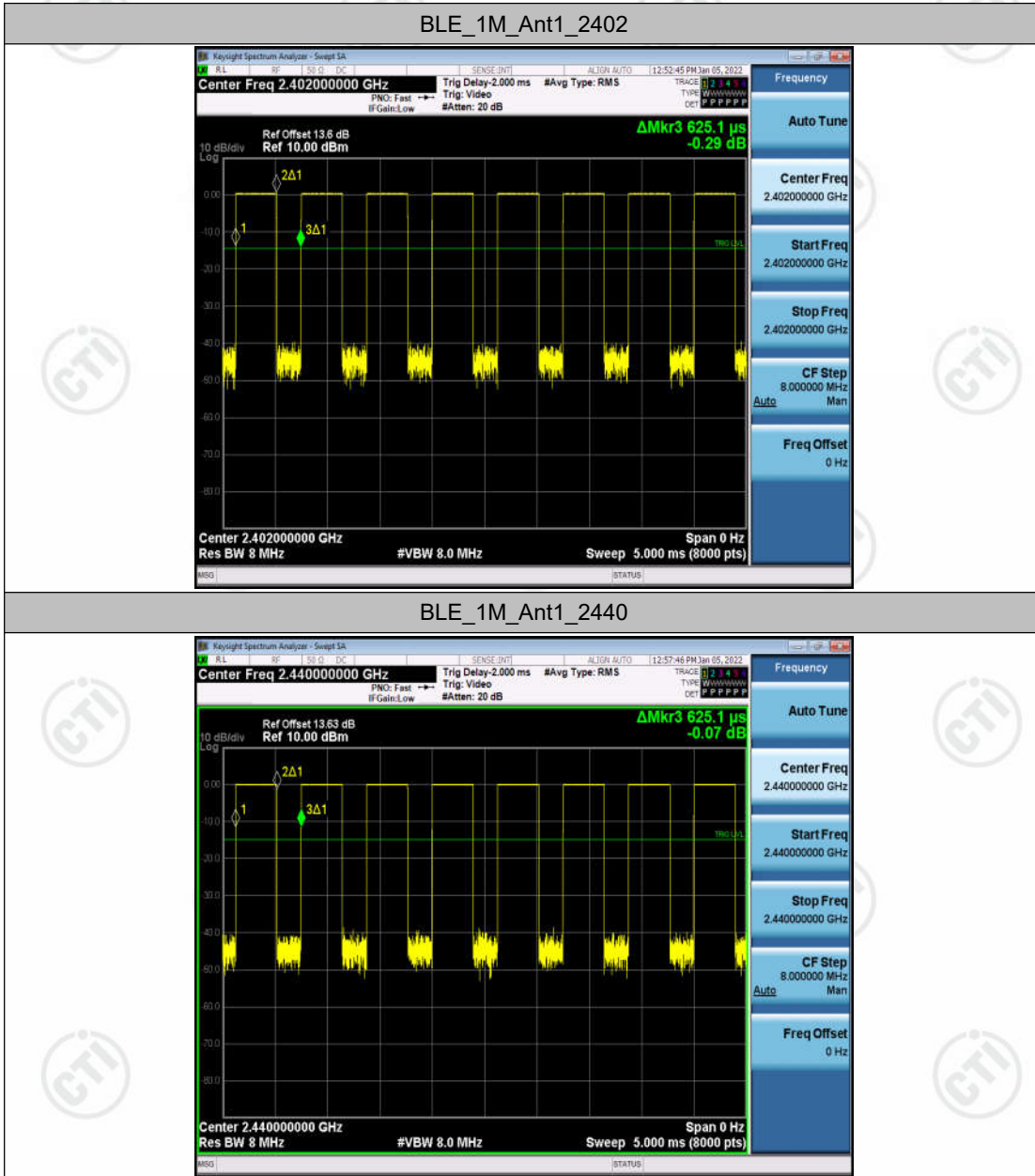




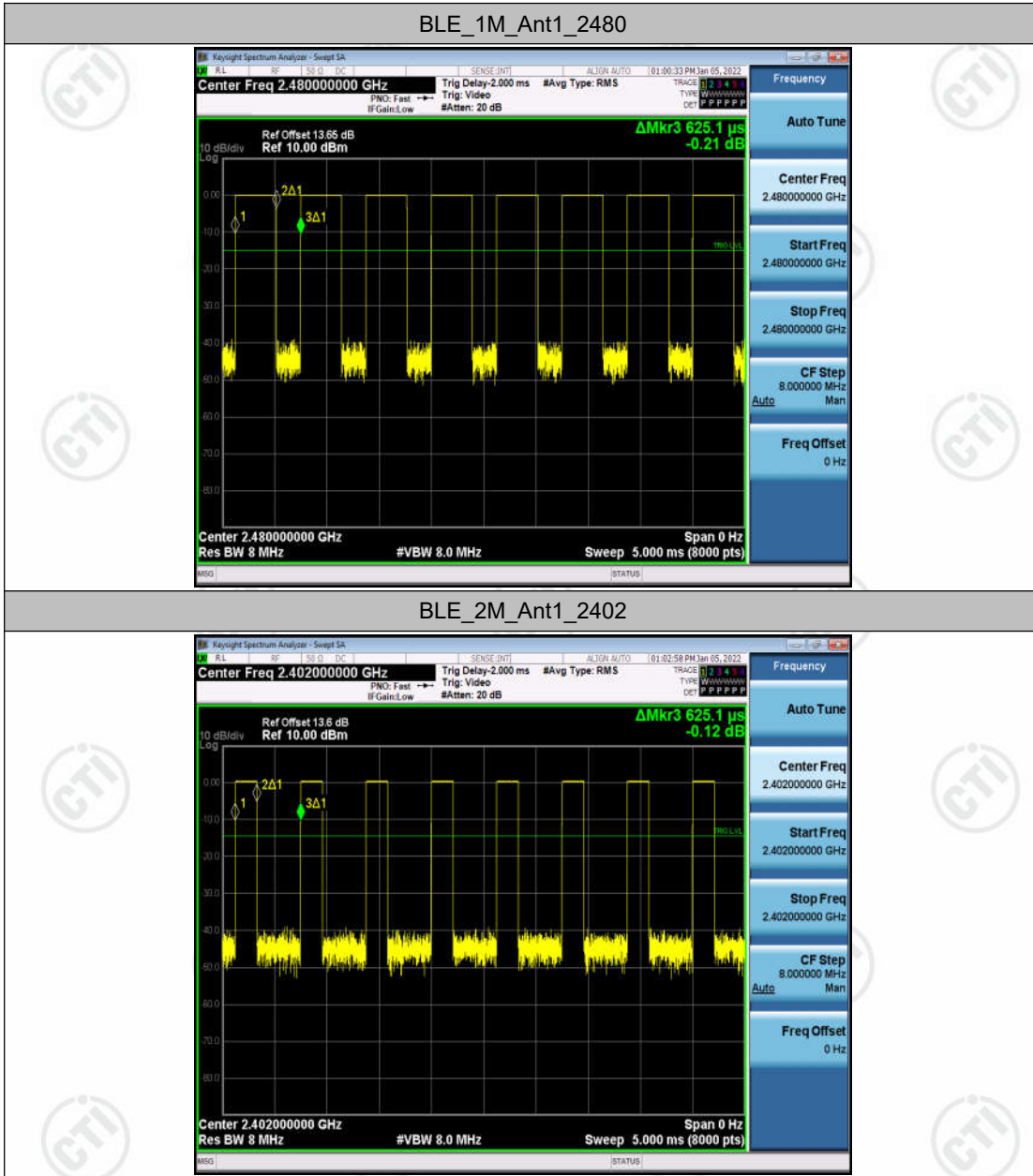
**Appendix G: Duty Cycle****Test Result**

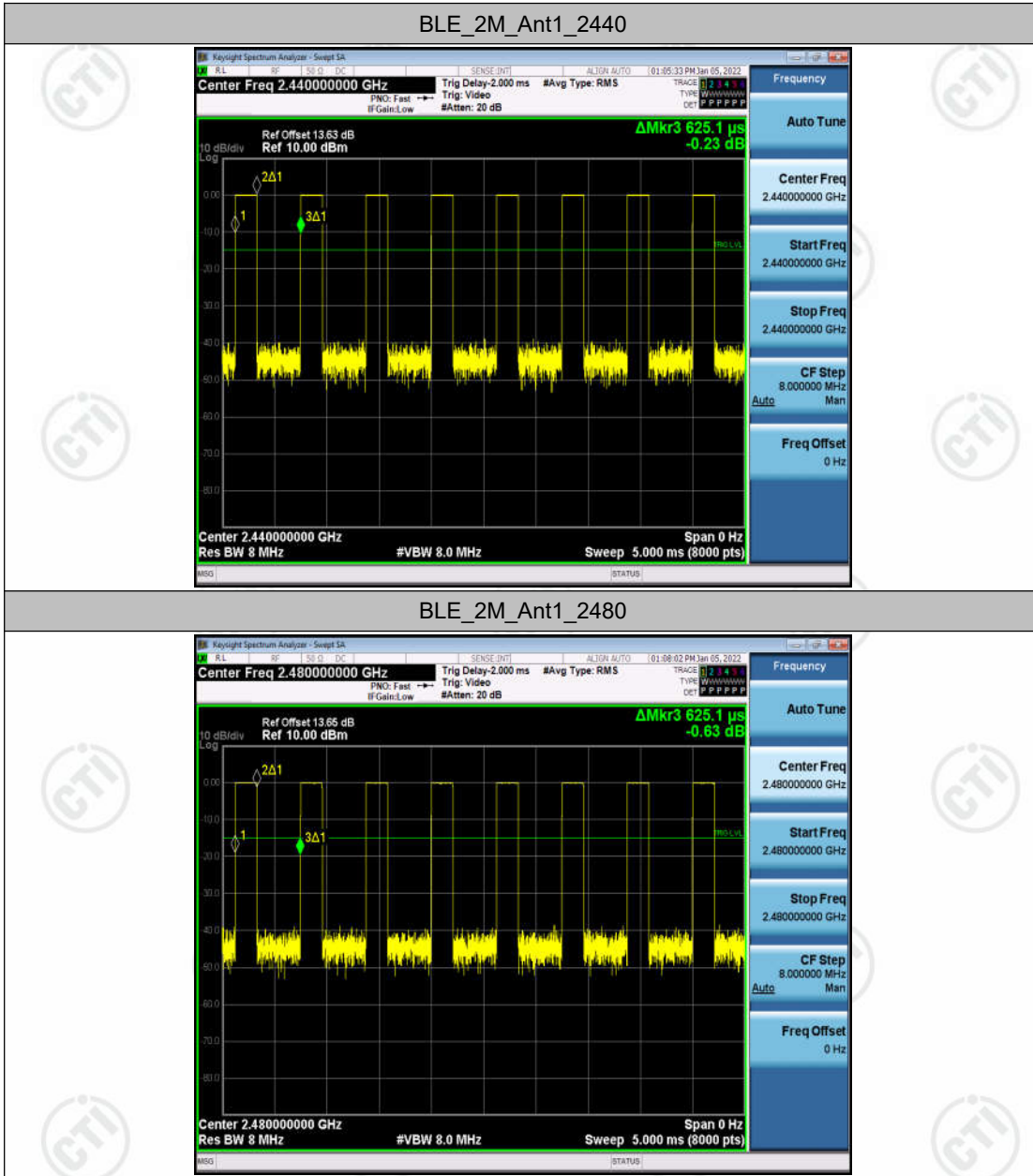
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
BLE_1M	Ant1	2402	0.39	0.63	63.00	---	PASS
		2440	0.39	0.63	63.00	---	PASS
		2480	0.39	0.63	63.00	---	PASS
BLE_2M	Ant1	2402	0.21	0.63	33.30	---	PASS
		2440	0.21	0.63	33.20	---	PASS
		2480	0.21	0.63	33.30	---	PASS

## Test Graphs









\*\*\* End of Report \*\*\*