

Appendix: Bluetooth LE

## Contents

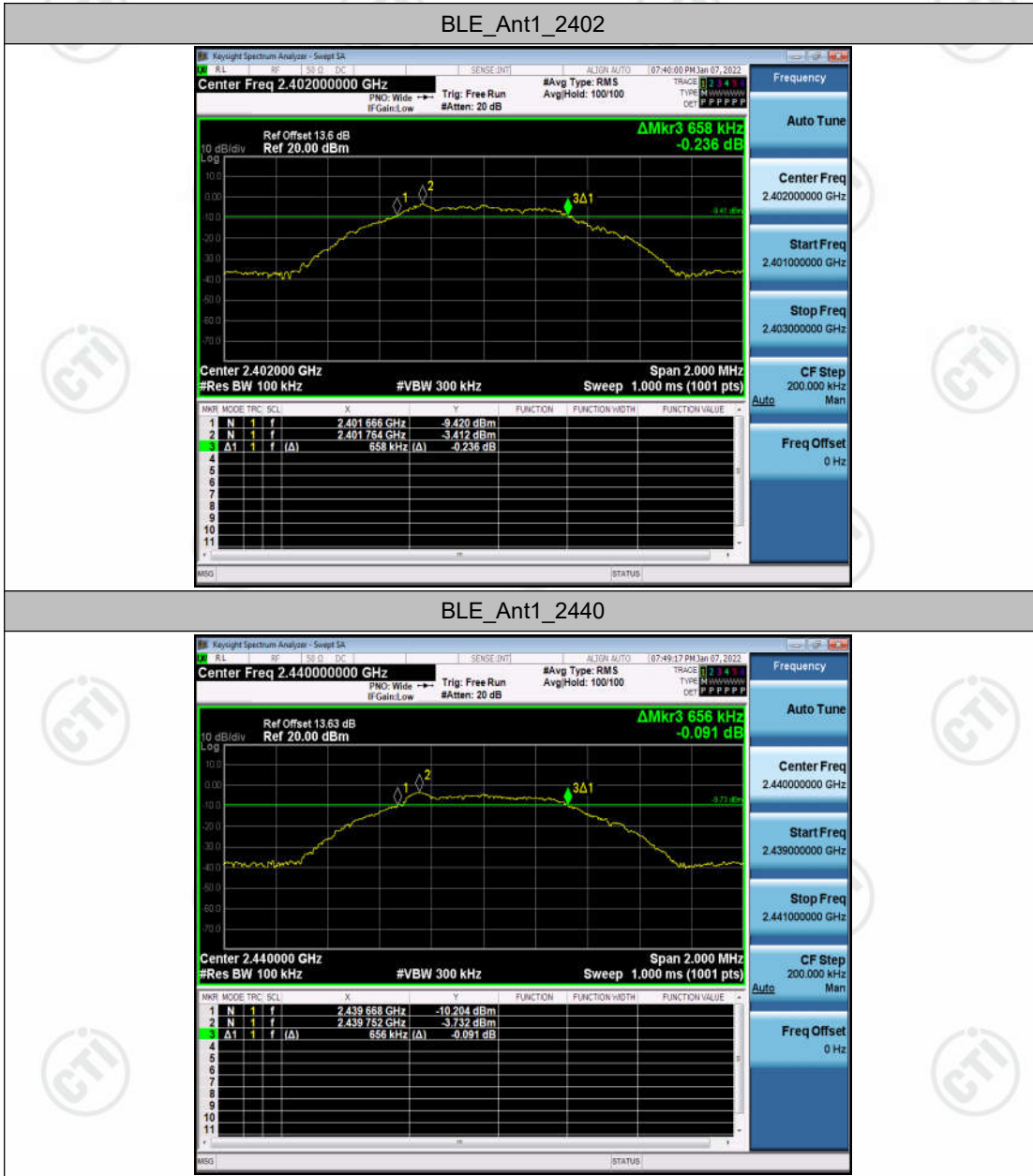
Appendix A: DTS Bandwidth.....	3
Test Result.....	3
Test Graphs.....	4
Appendix B: Occupied Channel Bandwidth.....	6
Test Result.....	6
Test Graphs.....	7
Appendix C: Maximum conducted output power.....	9
Test Result.....	9
Test Graphs.....	10
Appendix D: Maximum power spectral density.....	12
Test Result.....	12
Test Graphs.....	13
Appendix E: Band edge measurements.....	15
Test Result.....	15
Test Graphs.....	16
Appendix F: Conducted Spurious Emission.....	17
Test Result.....	17
Test Graphs.....	18
Appendix G: Duty Cycle.....	23
Test Result.....	23
Test Graphs.....	24

## Appendix A: DTS Bandwidth

### Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.658	2401.666	2402.324	0.5	PASS
		2440	0.656	2439.668	2440.324	0.5	PASS
		2480	0.680	2479.656	2480.336	0.5	PASS

## Test Graphs

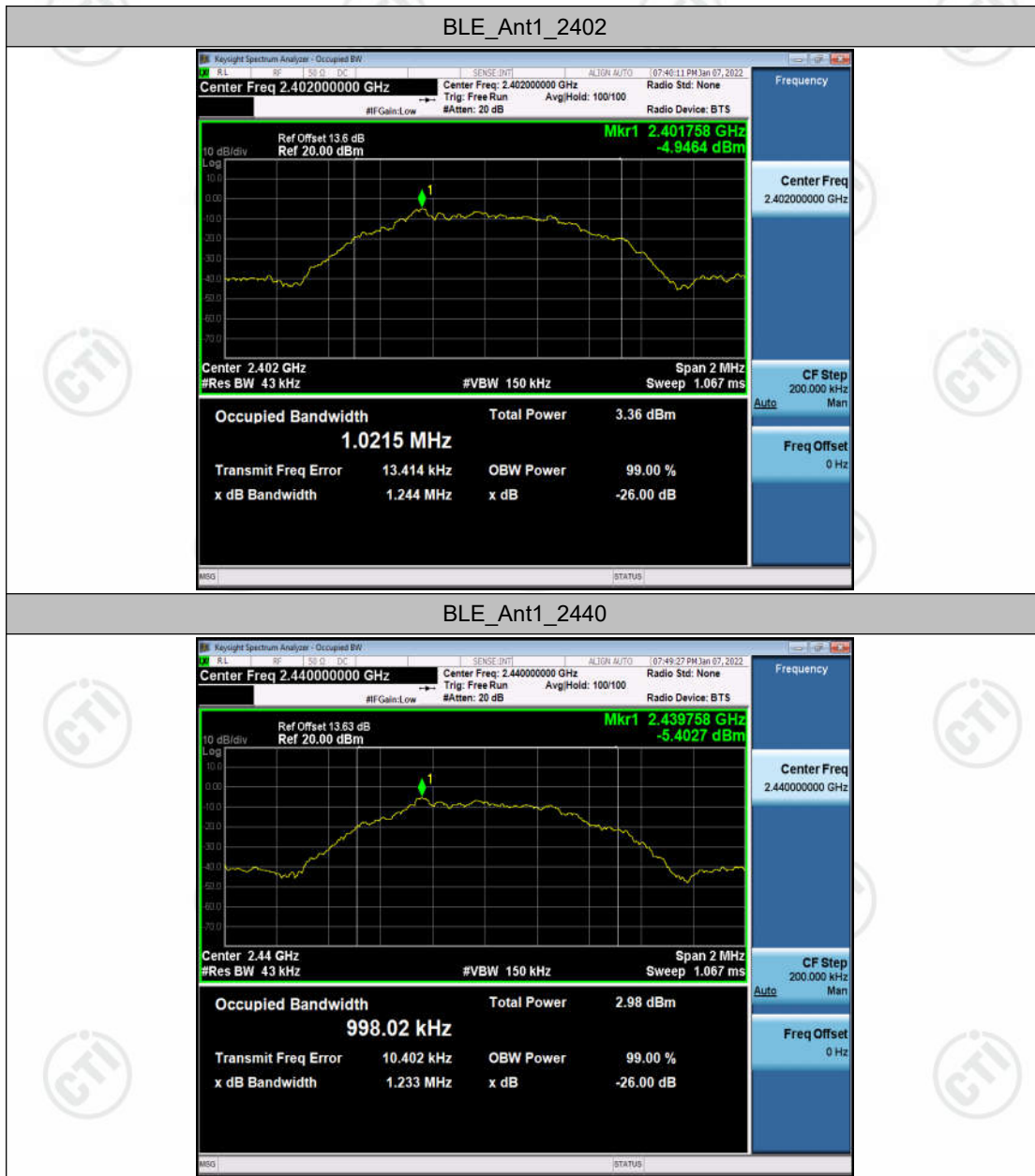




**Appendix B: Occupied Channel Bandwidth****Test Result**

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0215	2401.503	2402.524	---	PASS
		2440	0.99802	2439.511	2440.509	---	PASS
		2480	1.0301	2479.496	2480.526	---	PASS

## Test Graphs



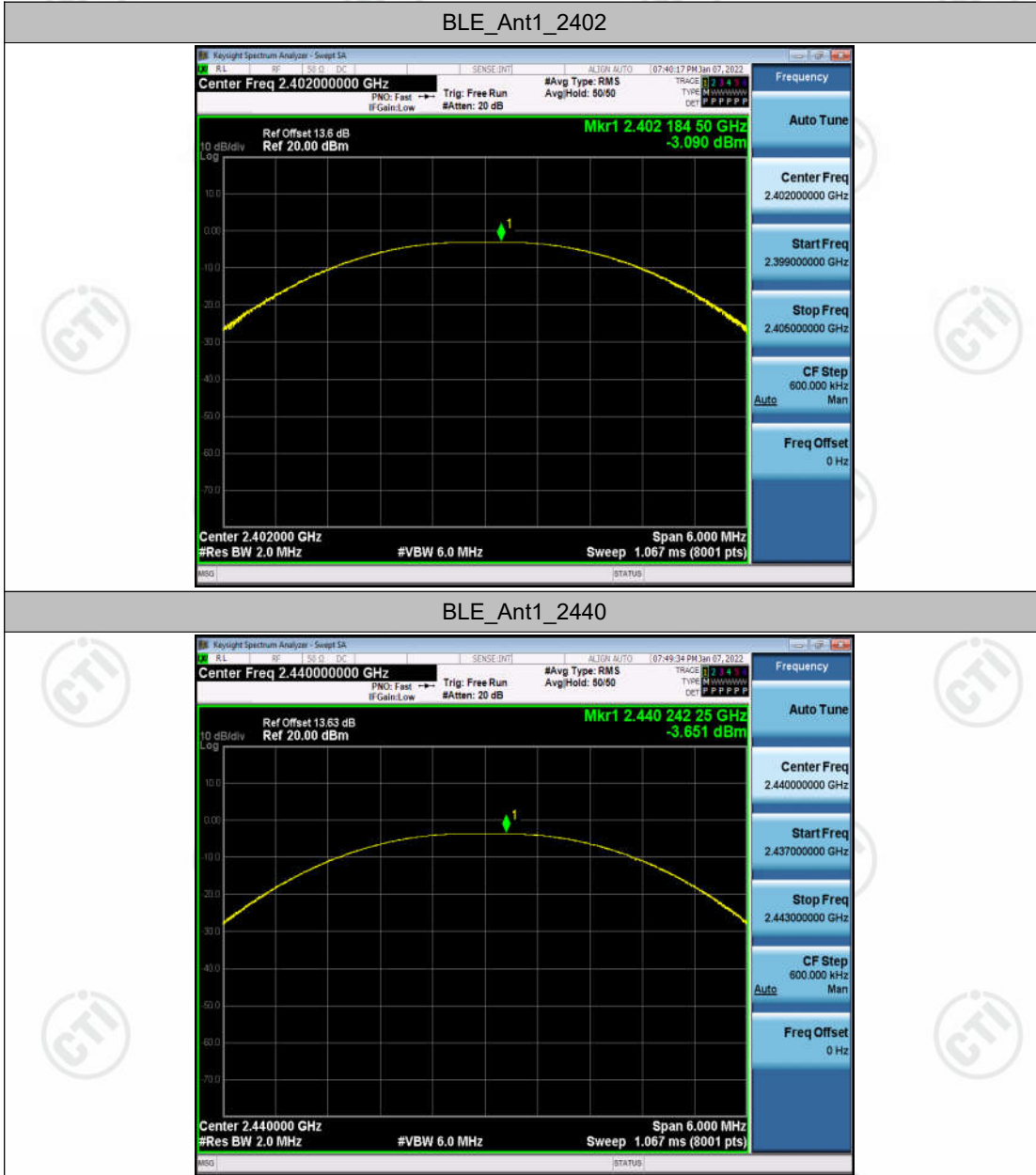


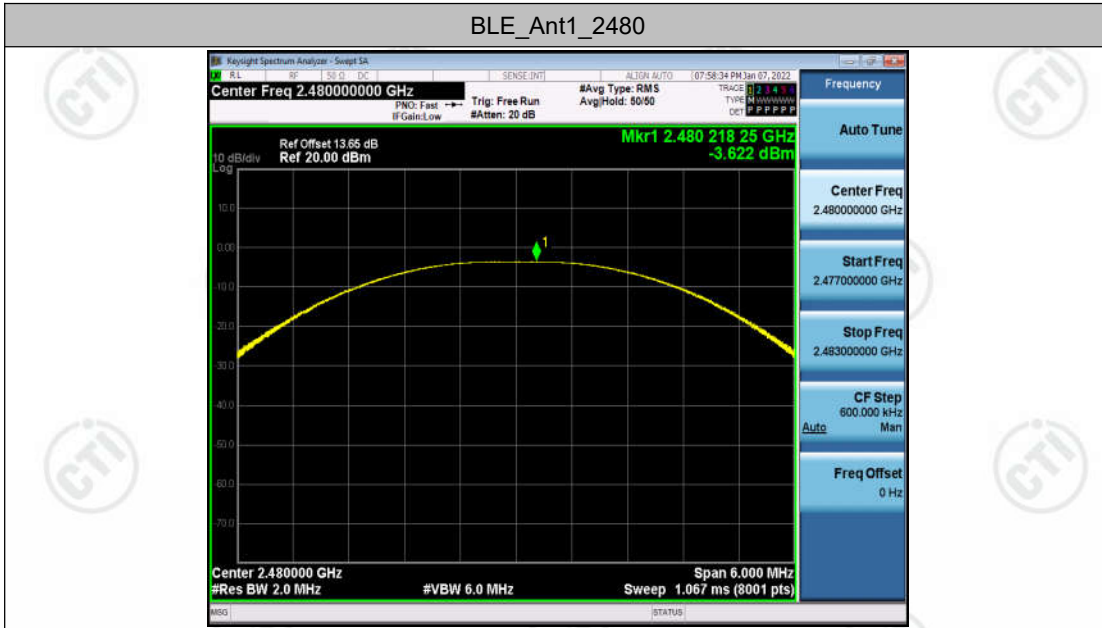


**Appendix C: Maximum conducted output power****Test Result**

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	-3.09	<=30	PASS
		2440	-3.65	<=30	PASS
		2480	-3.62	<=30	PASS

## Test Graphs

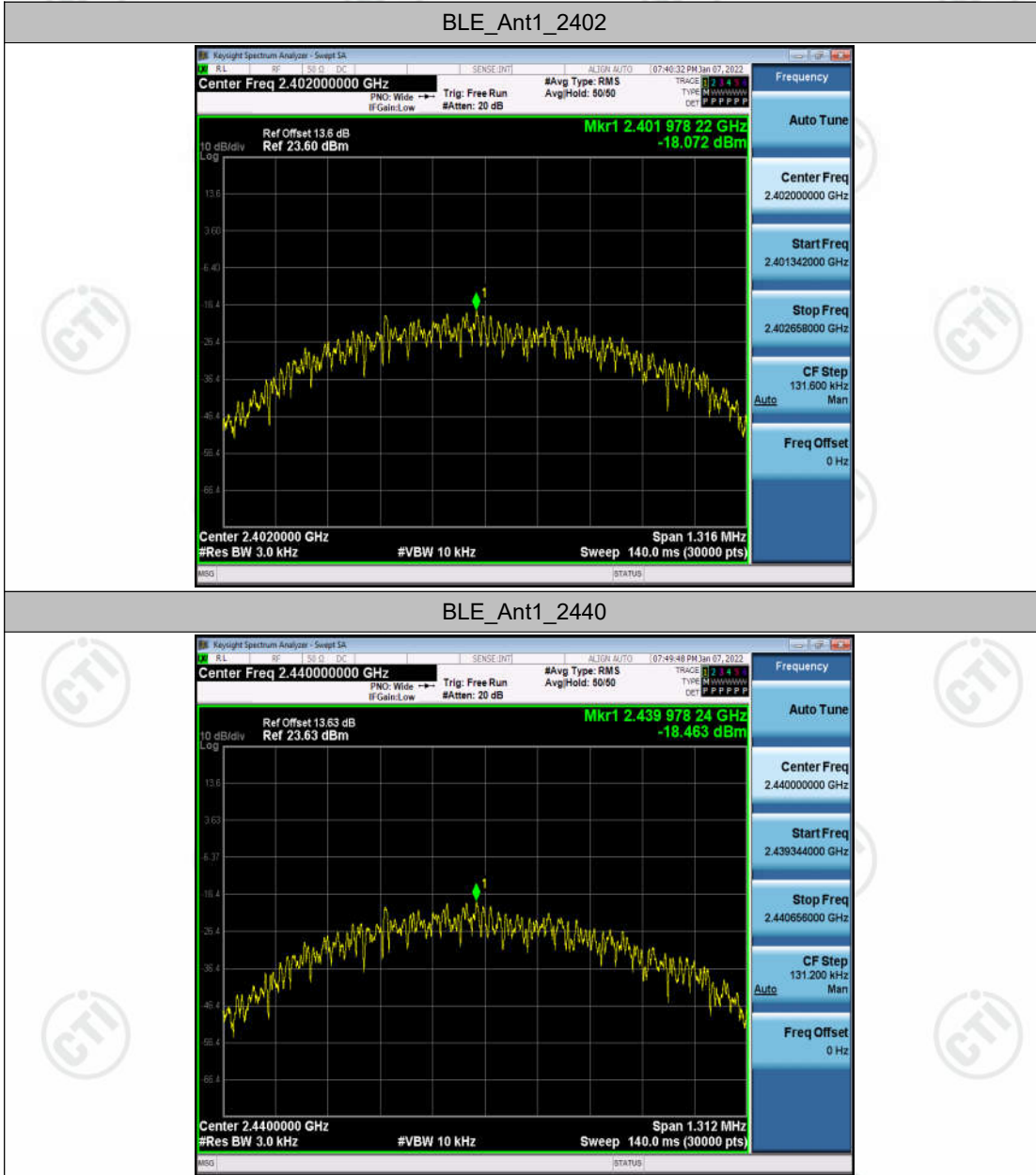




**Appendix D: Maximum power spectral density****Test Result**

Test Mode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-18.07	<=8	PASS
		2440	-18.46	<=8	PASS
		2480	-18.6	<=8	PASS

## Test Graphs



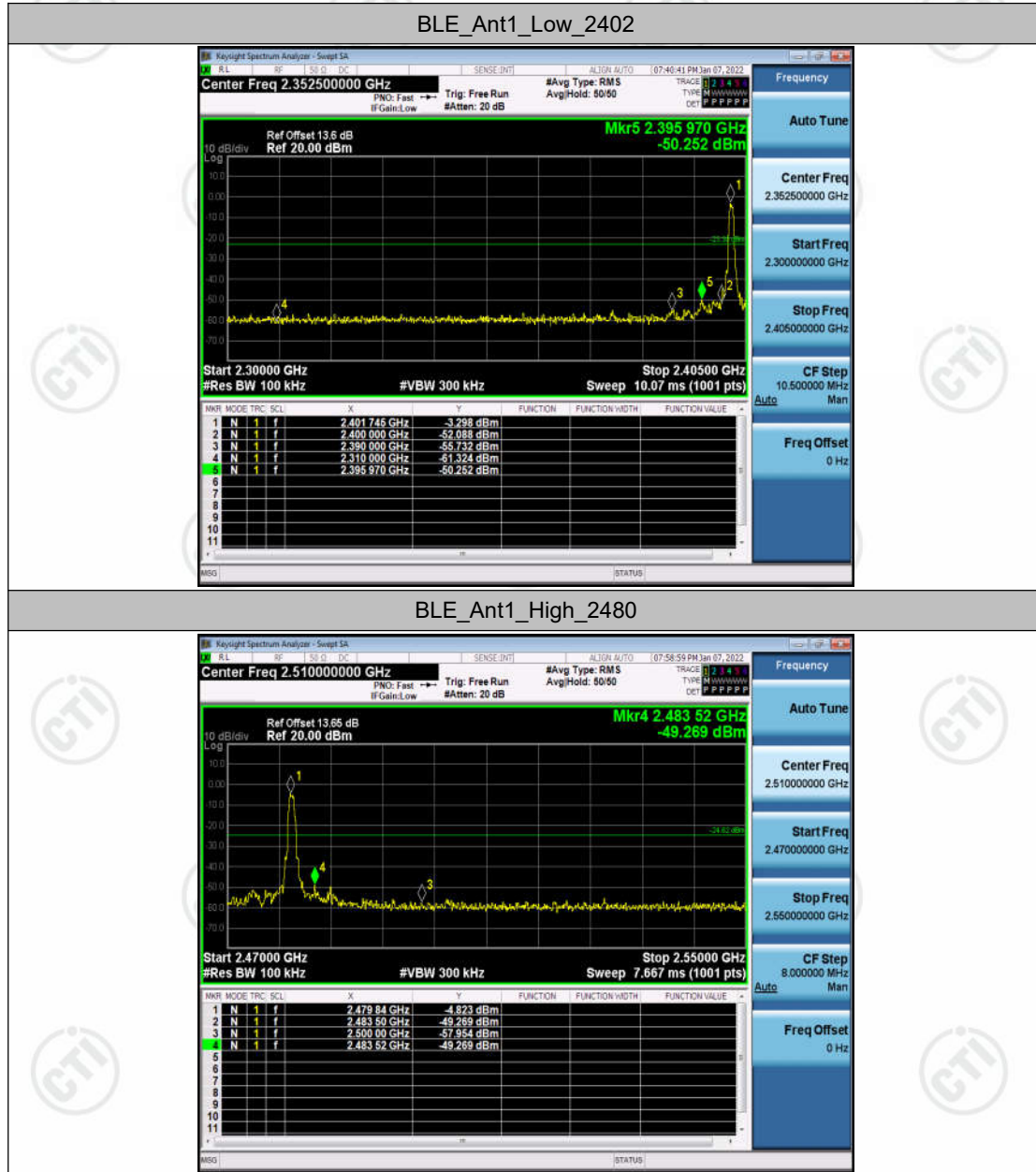


## Appendix E: Band edge measurements

### Test Result

Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	-3.30	-50.25	$\leq -23.3$	PASS
		High	2480	-4.82	-49.27	$\leq -24.82$	PASS

## Test Graphs



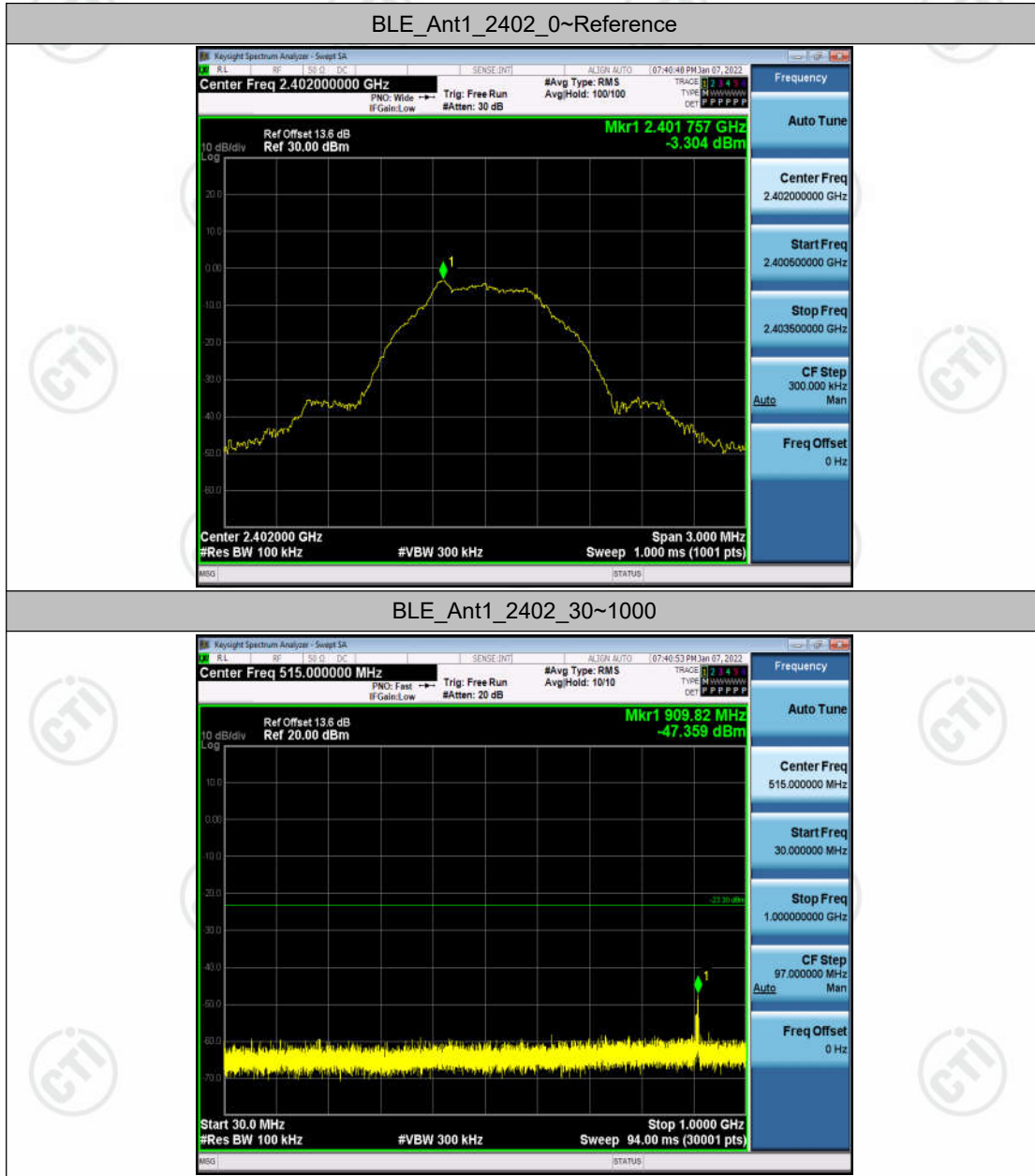


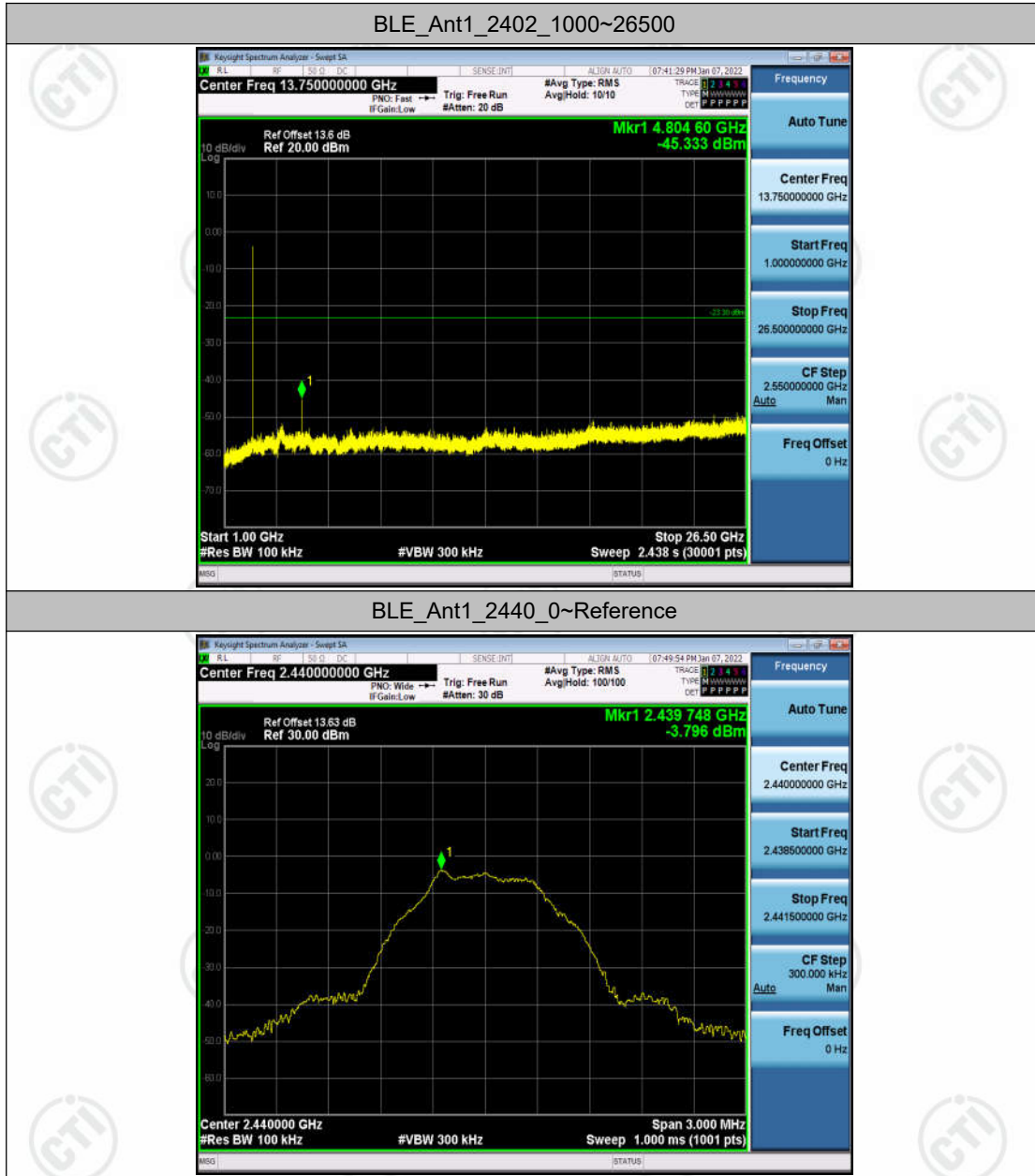
## Appendix F: Conducted Spurious Emission

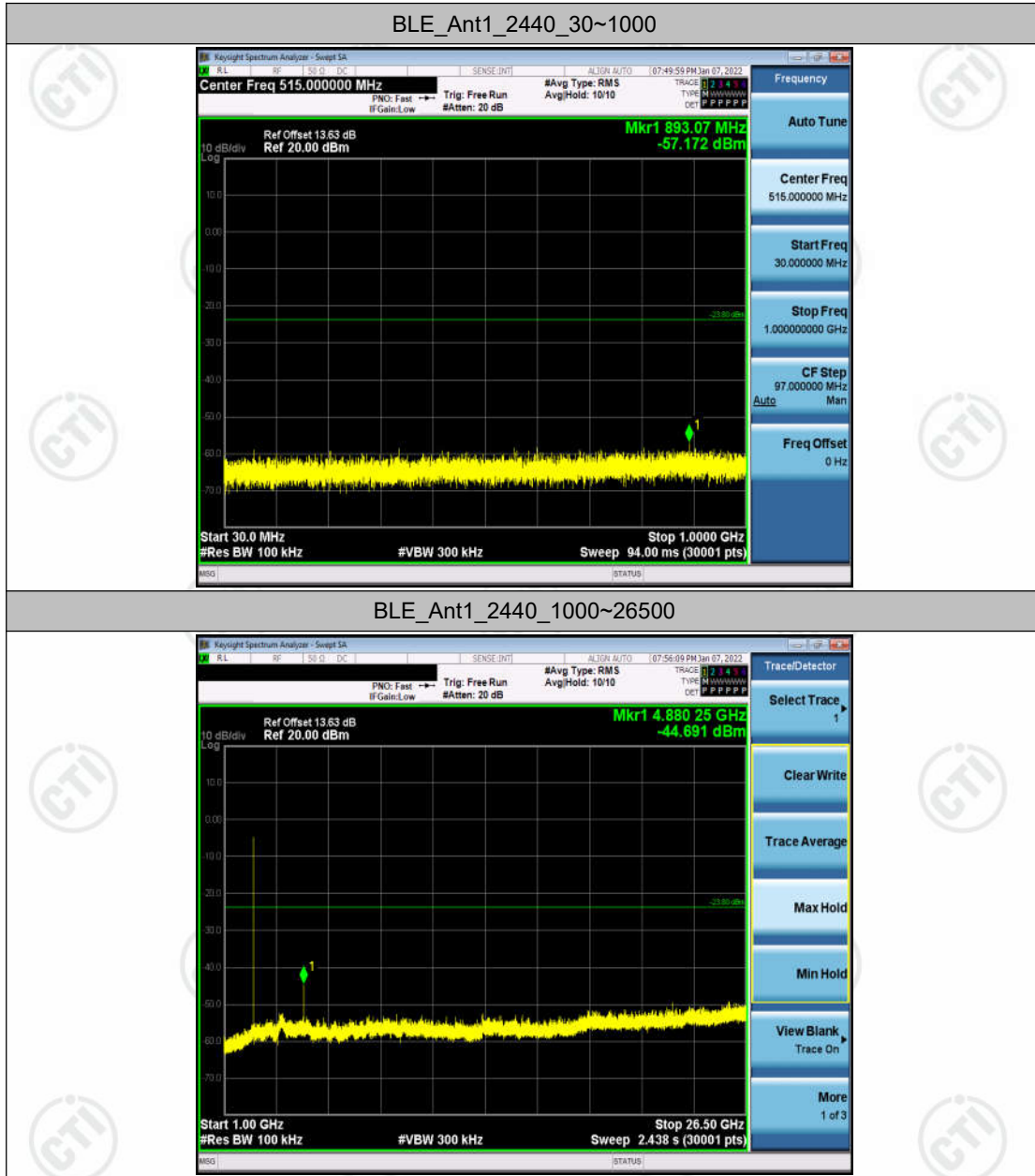
### Test Result

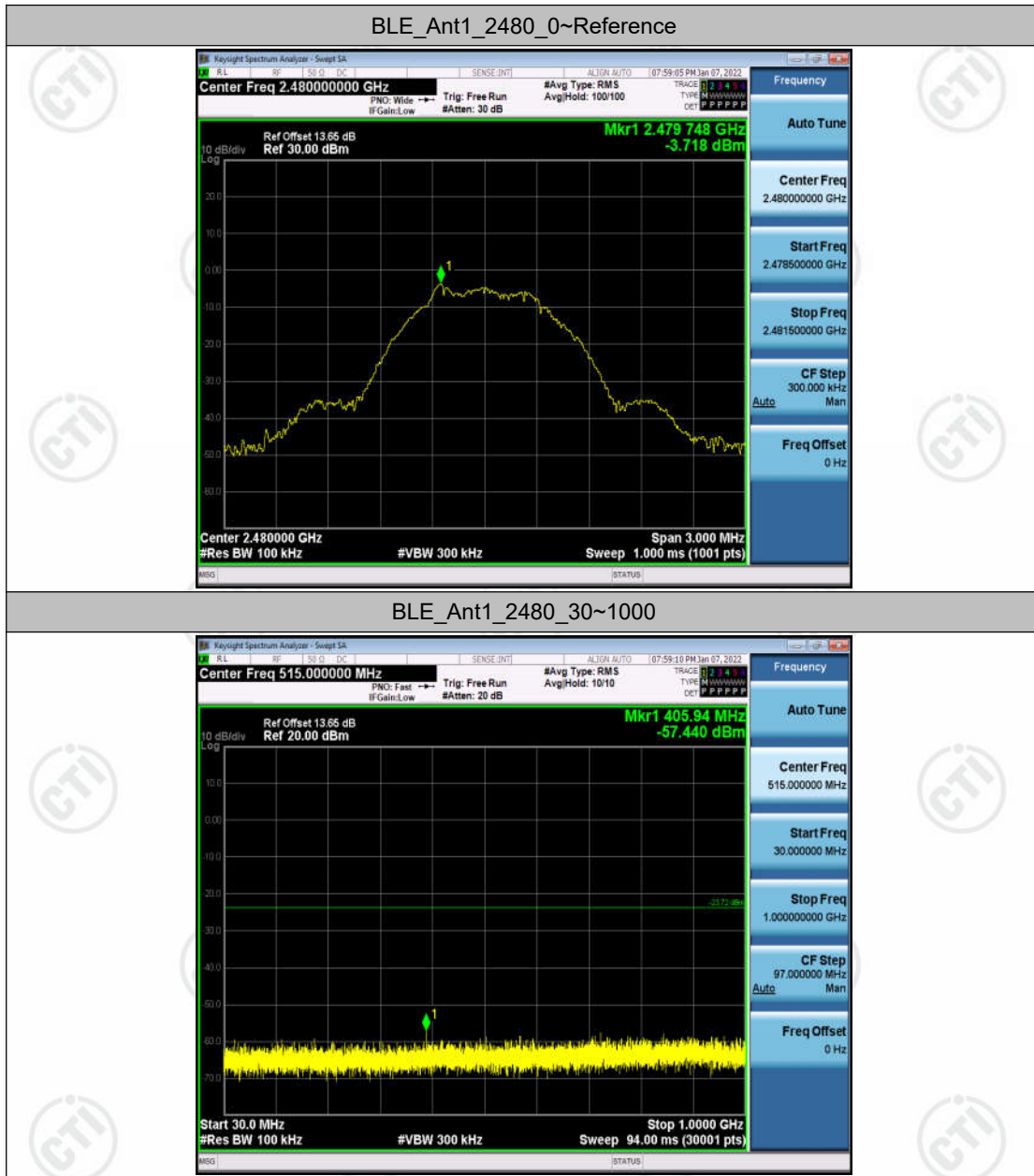
Test Mode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	-3.30	-3.30	---	PASS
			30~1000	---	-47.359	<=-23.304	PASS
			1000~26500	---	-45.333	<=-23.304	PASS
		2440	Reference	-3.80	-3.80	---	PASS
			30~1000	---	-57.172	<=-23.796	PASS
			1000~26500	---	-44.691	<=-23.796	PASS
		2480	Reference	-3.72	-3.72	---	PASS
			30~1000	---	-57.44	<=-23.718	PASS
			1000~26500	---	-44.576	<=-23.718	PASS

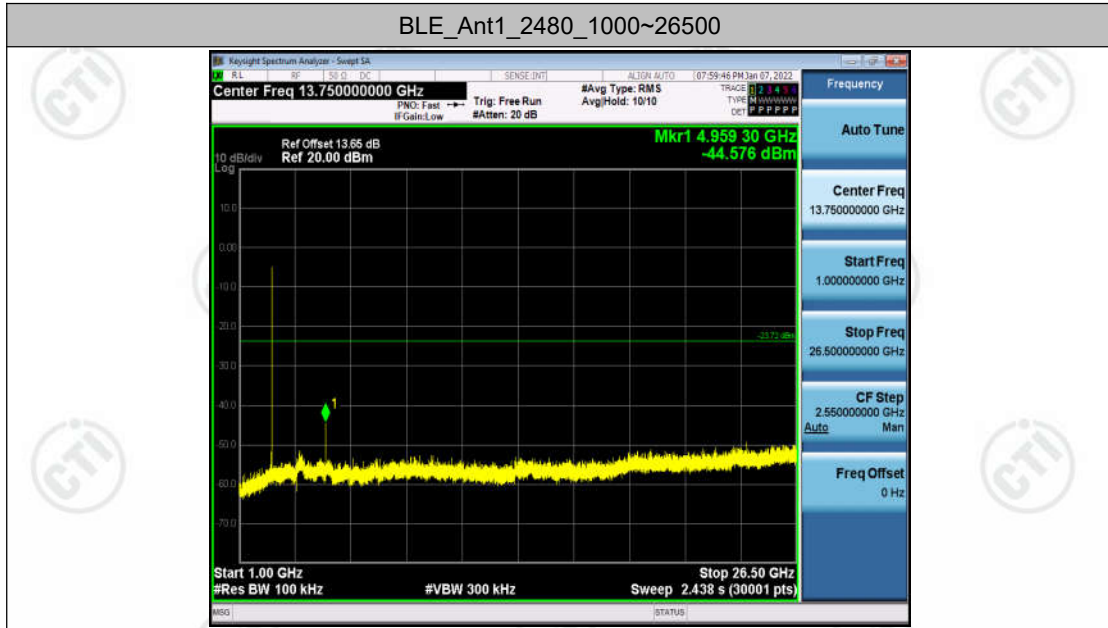
## Test Graphs









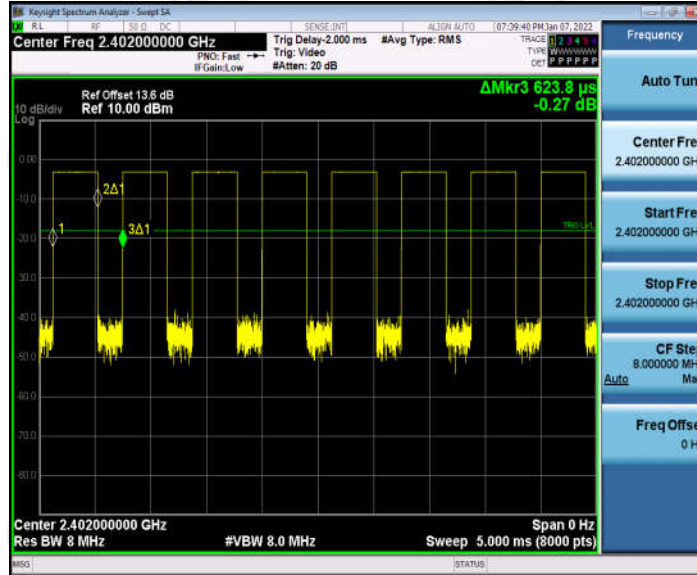


**Appendix G: Duty Cycle****Test Result**

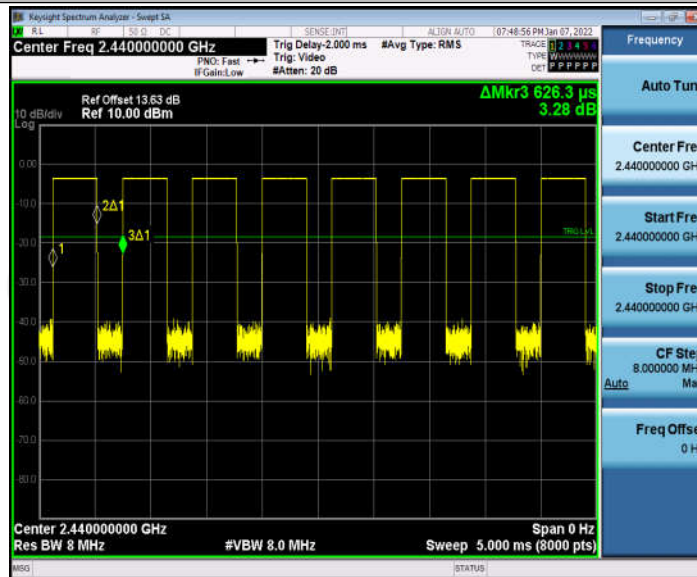
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
BLE	Ant1	2402	0.40	0.62	64.03	---	PASS
		2440	0.40	0.63	63.87	---	PASS
		2480	0.40	0.62	64.03	---	PASS

## Test Graphs

BLE\_Ant1\_2402



BLE\_Ant1\_2440







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