

## Appendix:Bluetooth LE

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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	Ant1	2402	0.680	2401.768	2402.448	0.5	PASS
		2440	0.668	2439.768	2440.436	0.5	PASS
		2480	0.672	2479.772	2480.444	0.5	PASS

**Test Graphs**

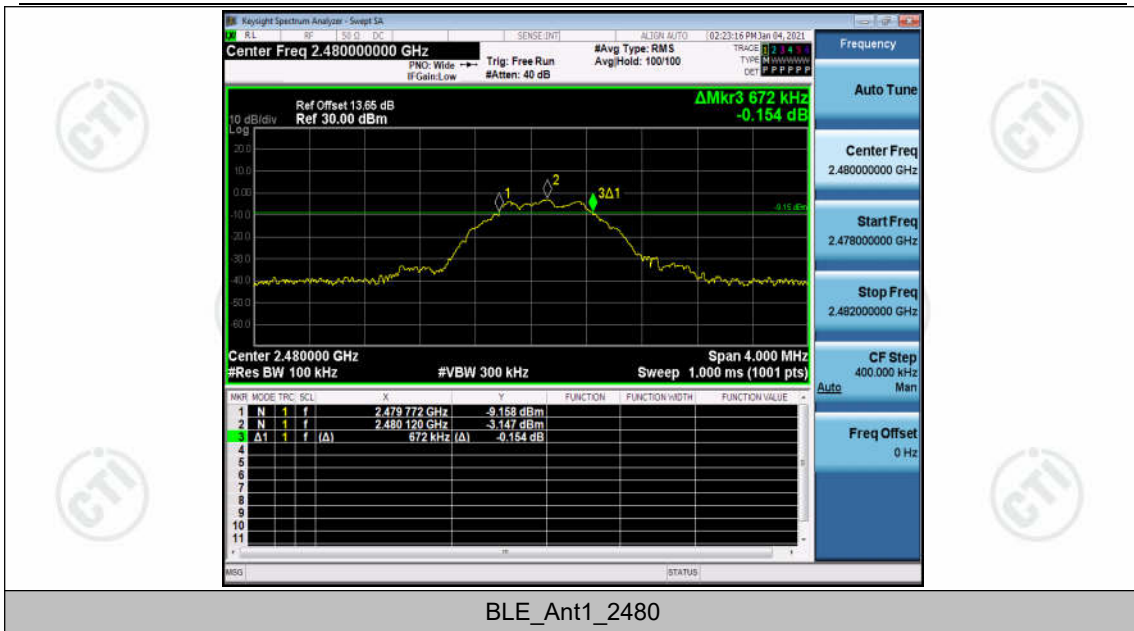


BLE\_Ant1\_2402



BLE\_Ant1\_2440

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## Appendix B: Occupied Channel Bandwidth

### Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0533	2401.575	2402.628	---	PASS
		2440	1.0523	2439.576	2440.628	---	PASS
		2480	1.0468	2479.580	2480.626	---	PASS

### Test Graphs

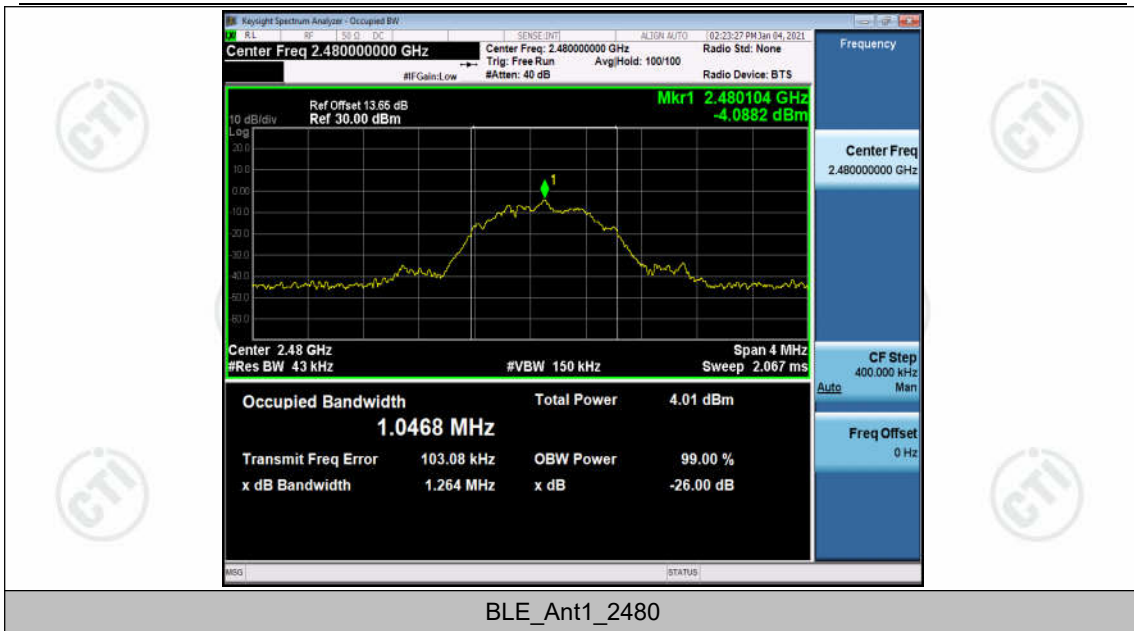


BLE\_Ant1\_2402



BLE\_Ant1\_2440

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## Appendix C: Maximum conducted output power

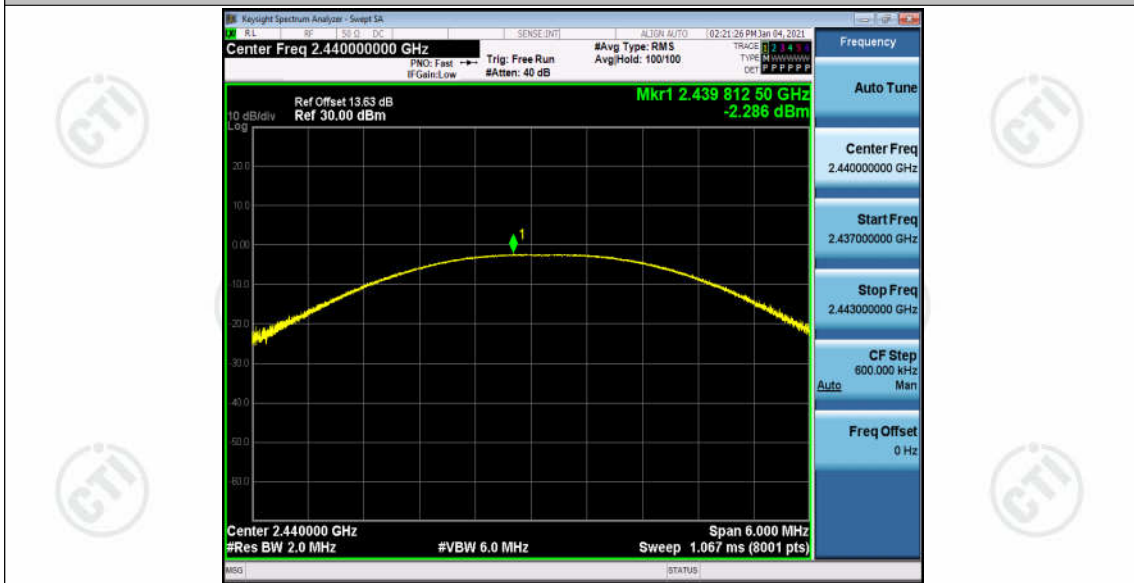
### Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	-2.06	<=30	PASS
		2440	-2.29	<=30	PASS
		2480	-2.42	<=30	PASS

**Test Graphs**

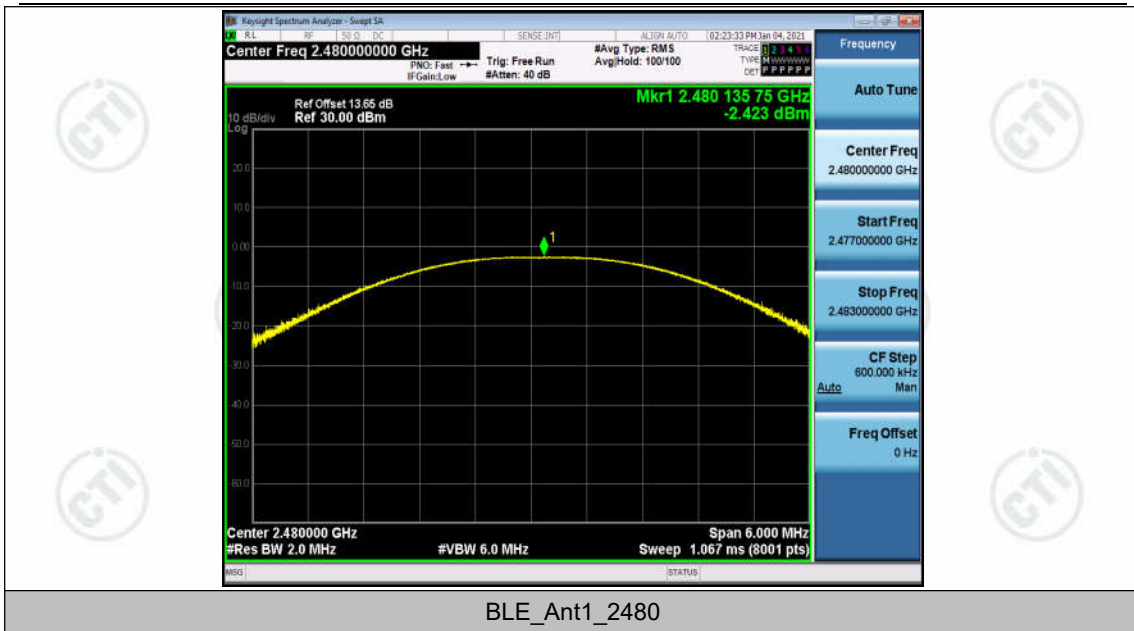


BLE\_Ant1\_2402



BLE\_Ant1\_2440

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BLE\_Ant1\_2480

## Appendix D: Maximum power spectral density

### Test Result

Test Mode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-11.6	<=8	PASS
		2440	-11.66	<=8	PASS
		2480	-11.92	<=8	PASS

**Test Graphs**



BLE\_Ant1\_2402



BLE\_Ant1\_2440

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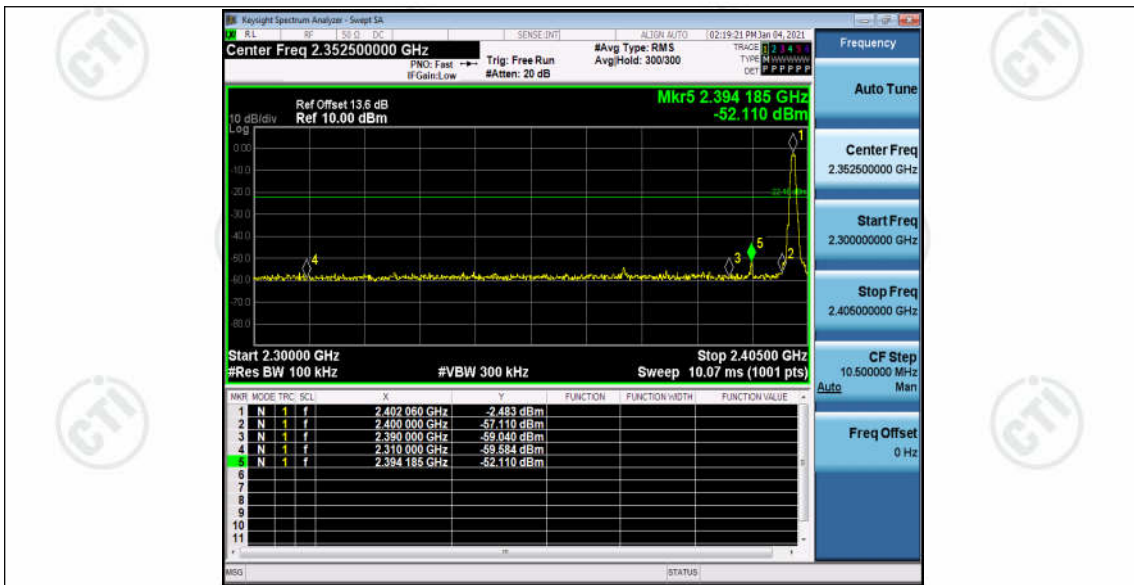
BLE\_Ant1\_2480

## Appendix E:Band edge measurements

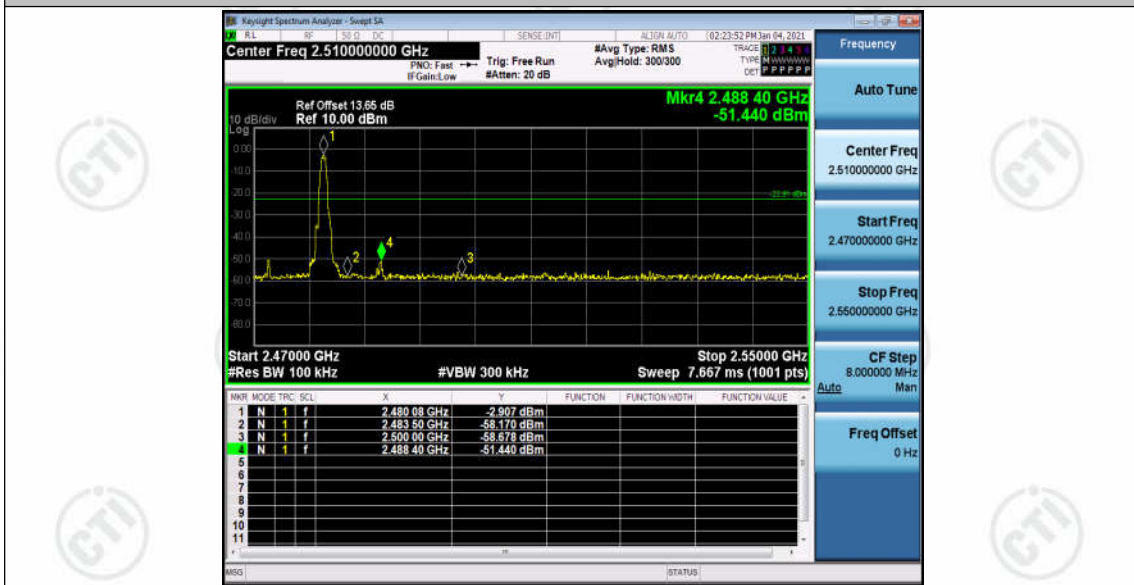
### Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE	Ant1	Low	2402	-2.48	-52.11	<=-22.48	PASS
		High	2480	-2.91	-51.44	<=-22.91	PASS

**Test Graphs**



BLE\_Ant1\_Low\_2402



BLE\_Ant1\_High\_2480



## Appendix F:Conducted Spurious Emission

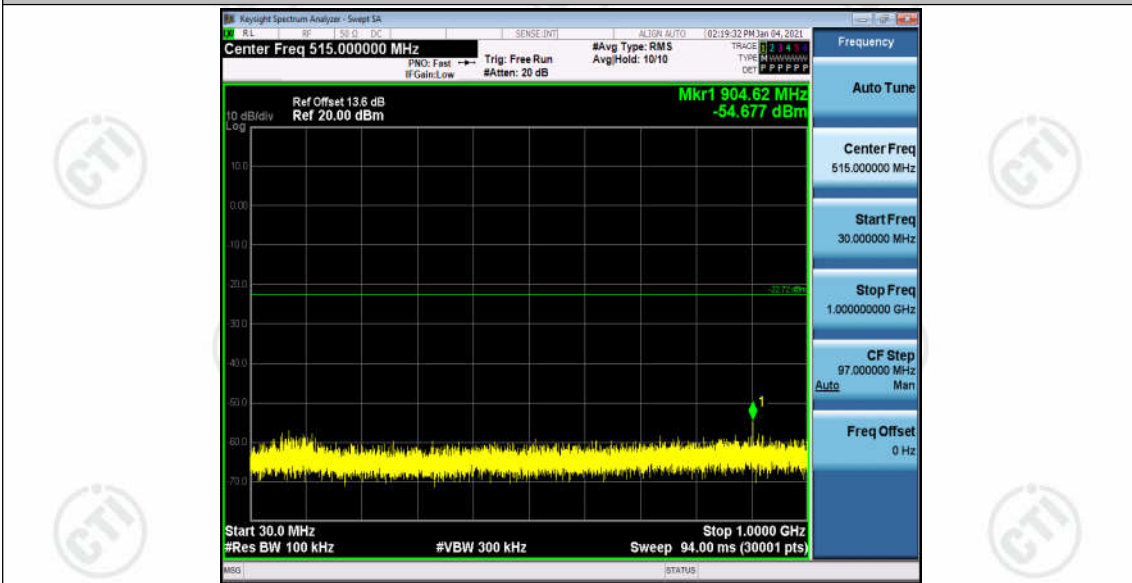
### Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE	Ant1	2402	Reference	-2.72	-2.72	---	PASS
			30~1000	30~1000	-54.677	<=-22.718	PASS
			1000~26500	1000~26500	-49.398	<=-22.718	PASS
		2440	Reference	-3.14	-3.14	---	PASS
			30~1000	30~1000	-54.98	<=-23.143	PASS
			1000~26500	1000~26500	-47.702	<=-23.143	PASS
		2480	Reference	-3.16	-3.16	---	PASS
			30~1000	30~1000	-56.125	<=-23.156	PASS
			1000~26500	1000~26500	-48.511	<=-23.156	PASS

**Test Graphs**

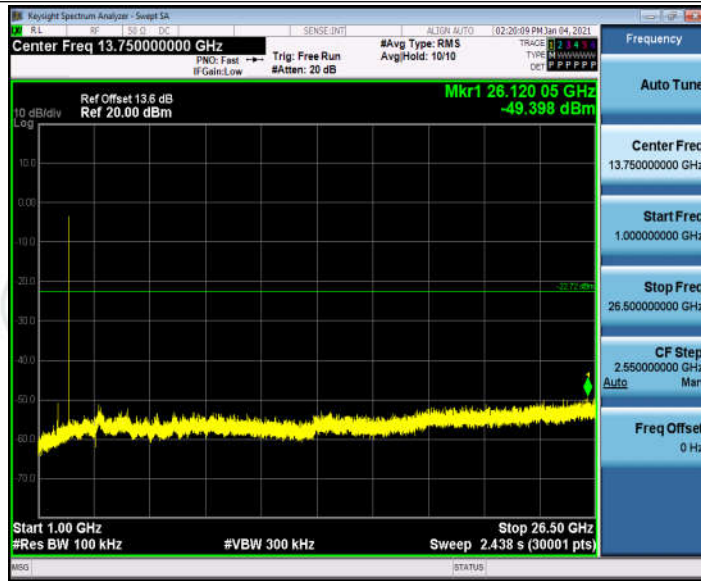


BLE\_Ant1\_2402\_0~Reference



BLE\_Ant1\_2402\_30~1000

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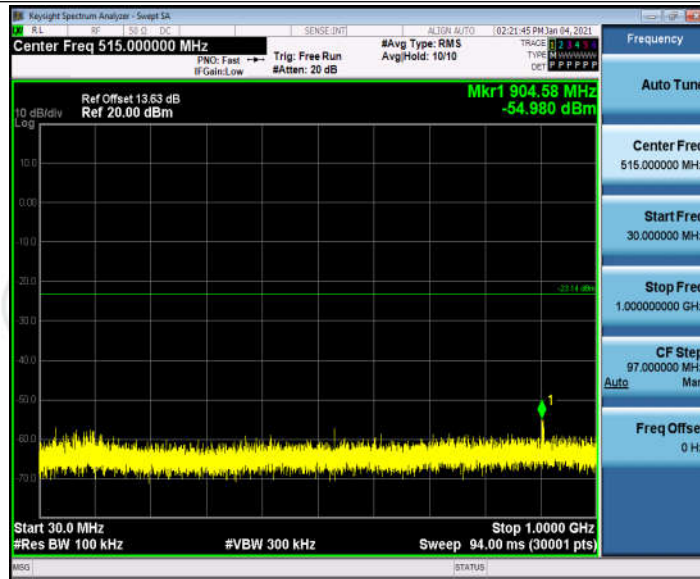


BLE\_Ant1\_2402\_1000~26500



BLE\_Ant1\_2440\_0~Reference

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BLE\_Ant1\_2440\_30~1000



BLE\_Ant1\_2440\_1000~26500

Report No. : EED32M00349201

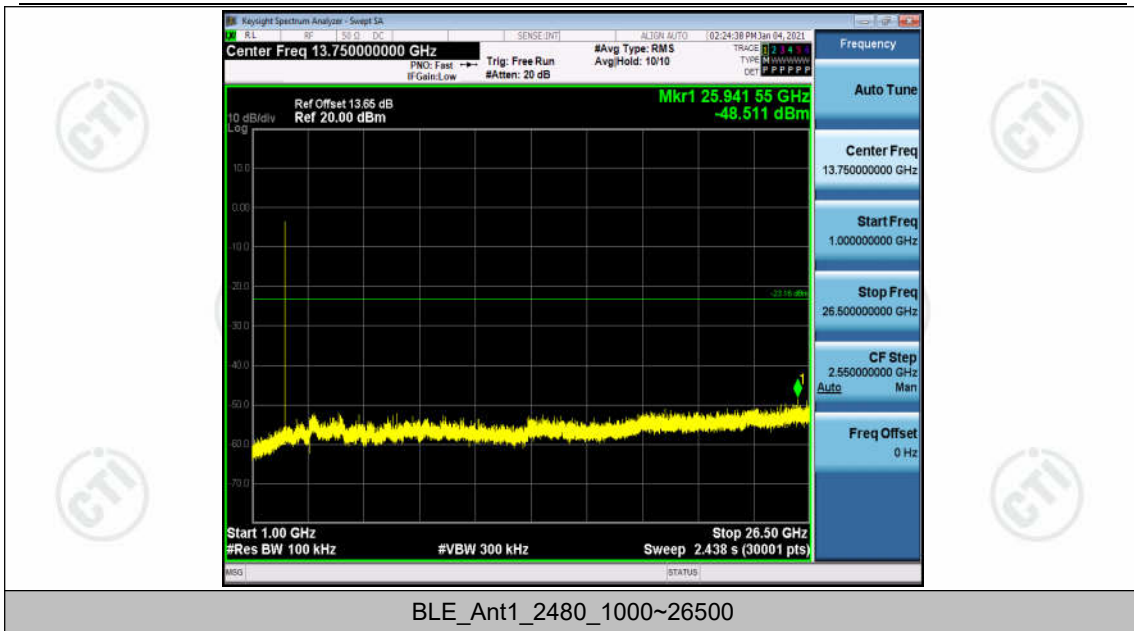


BLE\_Ant1\_2480\_0~Reference



BLE\_Ant1\_2480\_30~1000

Report No. : EED32M00349201



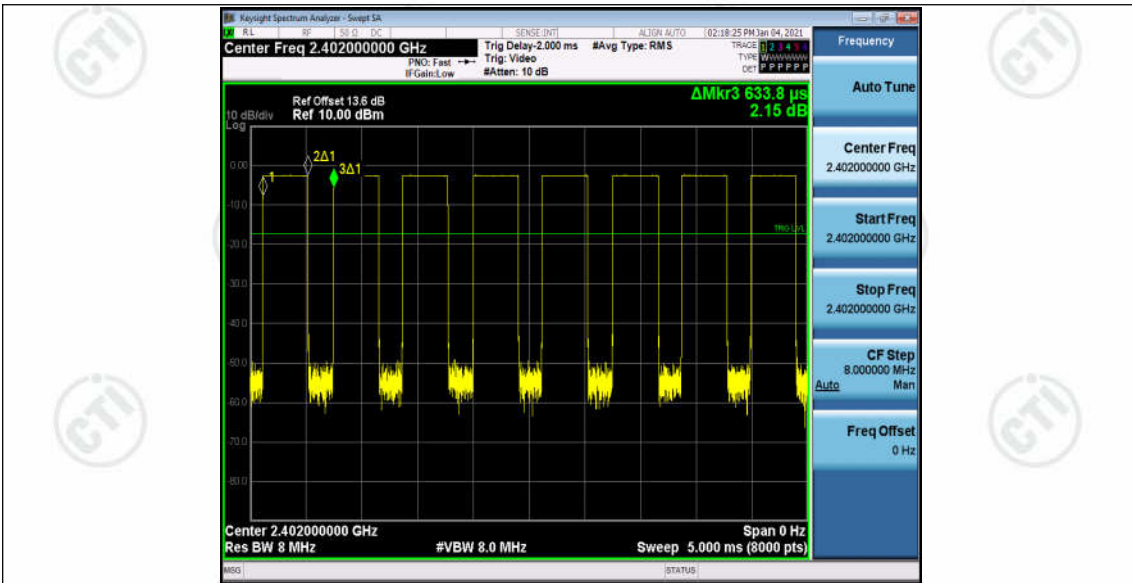
BLE\_Ant1\_2480\_1000~26500

## Appendix G: Duty Cycle

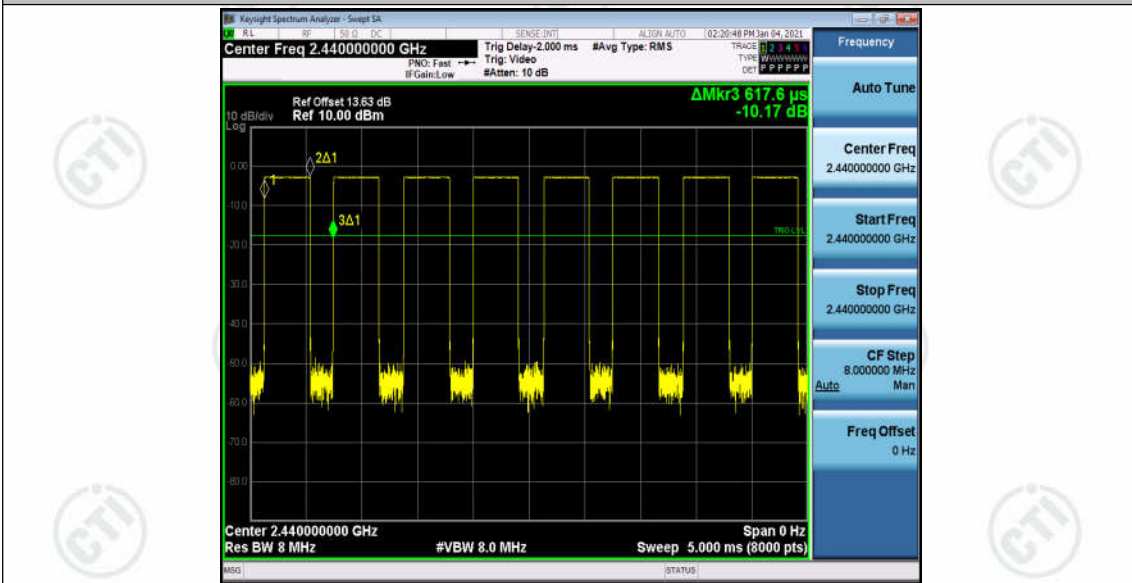
### Test Result

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
BLE	Ant1	2402	0.41	0.63	64.00	---	PASS
		2440	0.41	0.62	65.69	---	PASS
		2480	0.41	0.62	65.62	---	PASS

**Test Graphs**



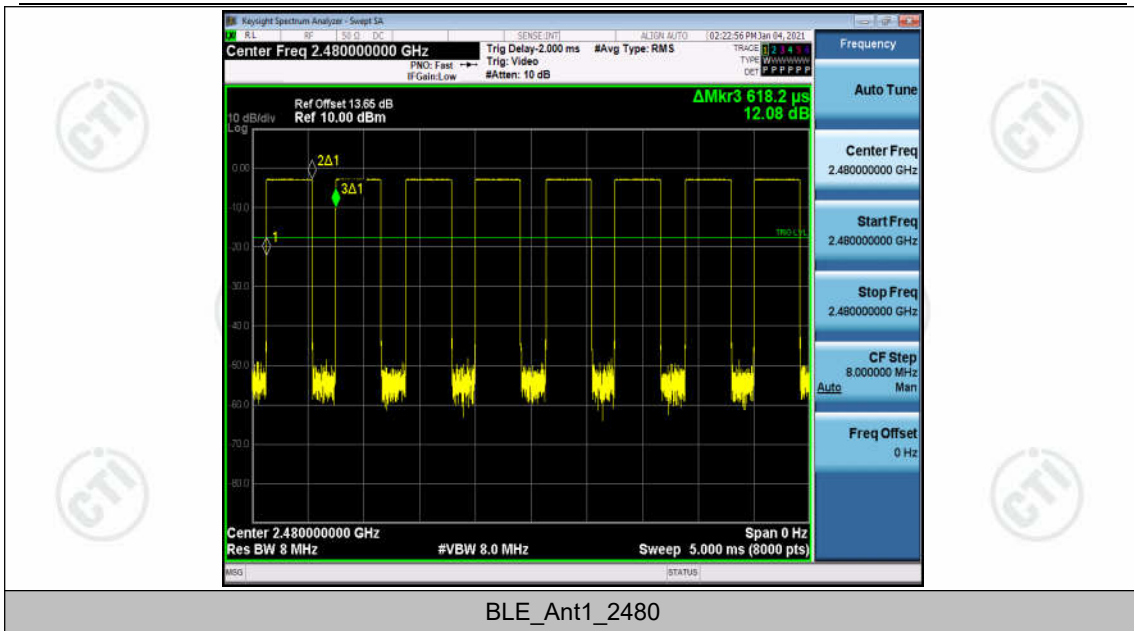
BLE\_Ant1\_2402



BLE\_Ant1\_2440



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BLE\_Ant1\_2480

## Appendix H: Emission sin Restricted Bands

### Test Result

Test Mode	Antenna	Ch Name	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
Test Mode	Antenna	Ch Name	Channel	Detector	Freq	Result	Limit	Verdict

Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

**Test Graphs**

Emission sin Restricted Bands measurements