

Case No. : <u>GTS20251121009-3-01</u>	
Ambient Condition: <u>23</u> °C, <u>46</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.11.26</u>	Test Engineer: <u>Evan ouyang</u>

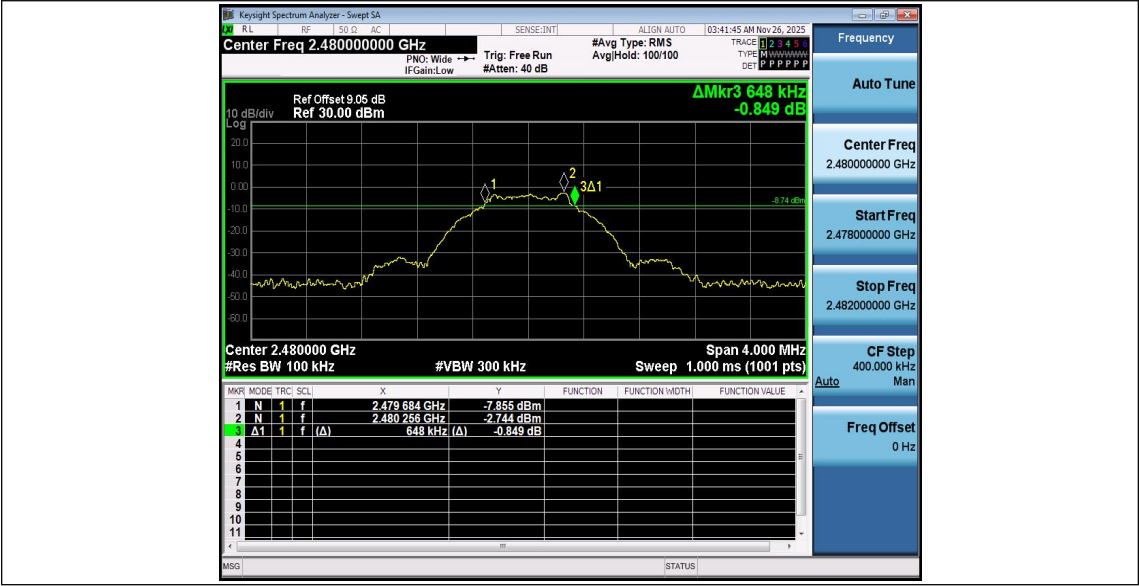
Appendix A.1: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_BT5.0	Ant1	2402	0.716	2401.640	2402.356	0.5	PASS
		2440	0.680	2439.668	2440.348	0.5	PASS
		2480	0.648	2479.684	2480.332	0.5	PASS

Test Graphs



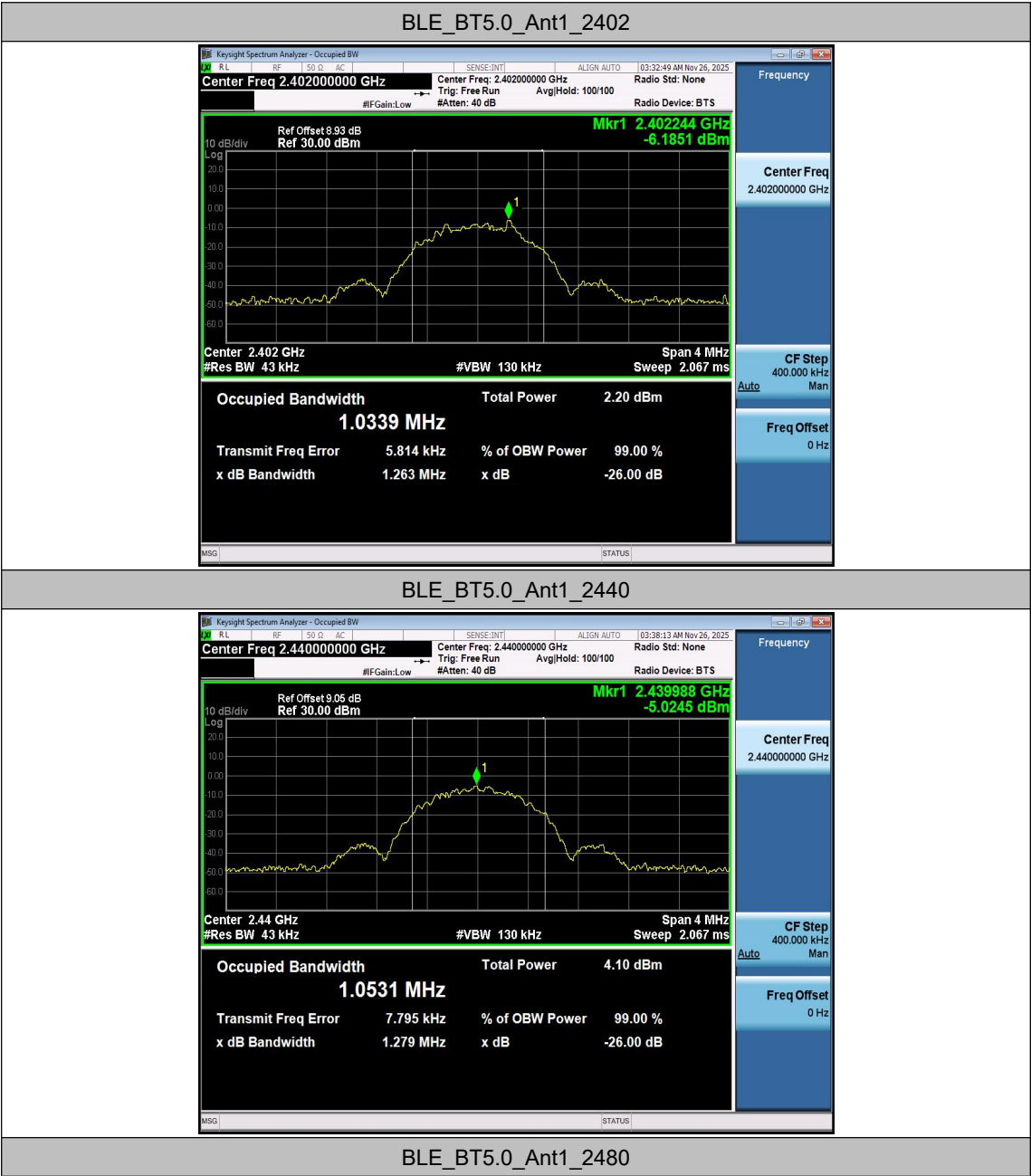


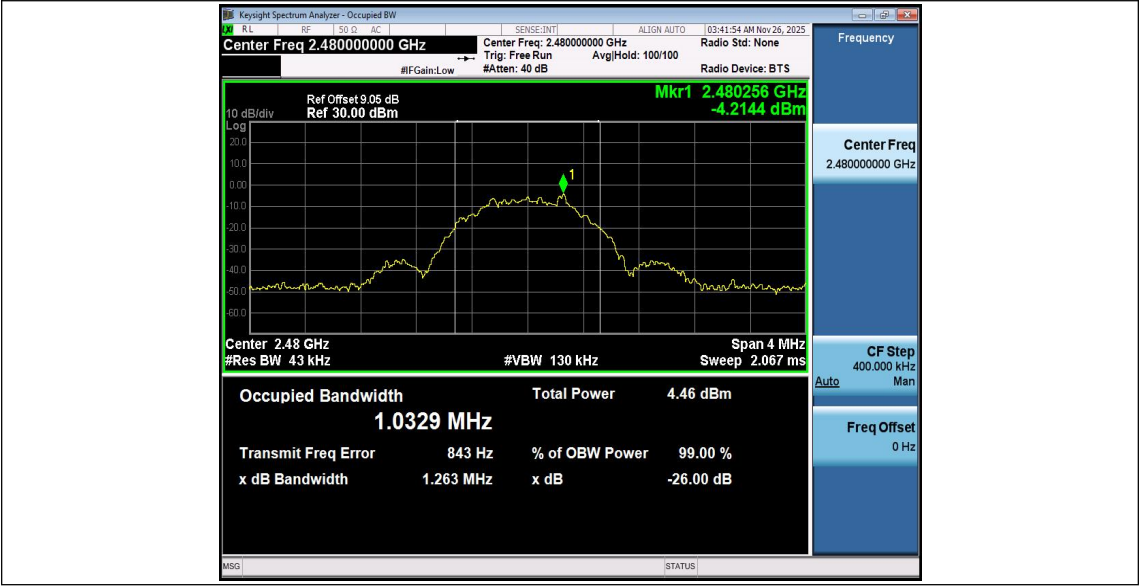
Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_BT5.0	Ant1	2402	1.0339	2401.4889	2402.5228	---	---
		2440	1.0531	2439.4813	2440.5344	---	---
		2480	1.0329	2479.4844	2480.5173	---	---

Test Graphs





Appendix A.3: Maximum conducted output power

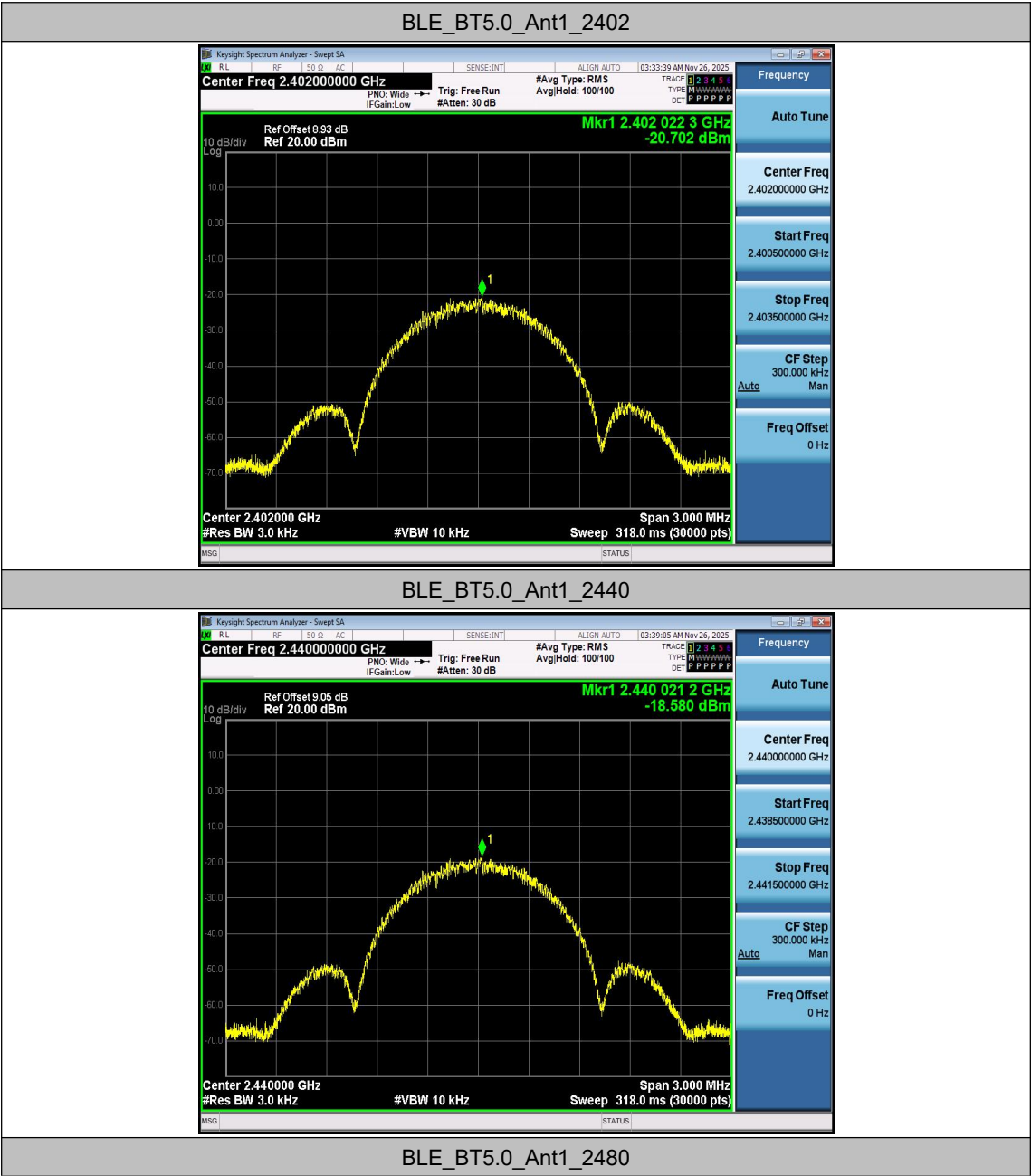
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_BT5.0	Ant1	2402	-3.22	≤30	PASS
		2440	-1.09	≤30	PASS
		2480	-1.14	≤30	PASS

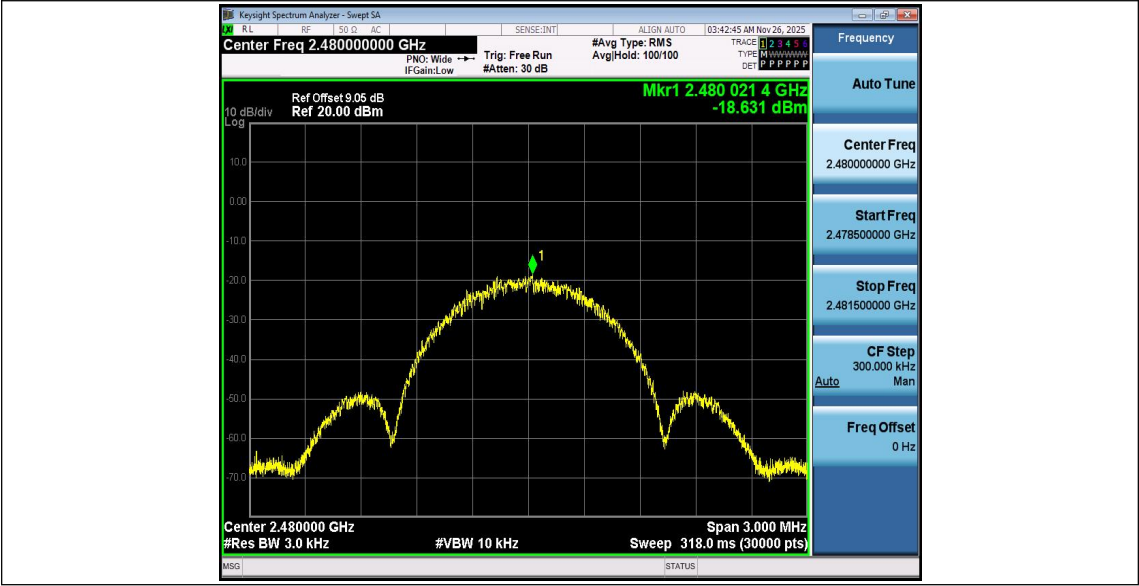
Appendix A.4: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_BT5.0	Ant1	2402	-20.70	≤8.00	PASS
		2440	-18.58	≤8.00	PASS
		2480	-18.63	≤8.00	PASS

Test Graphs



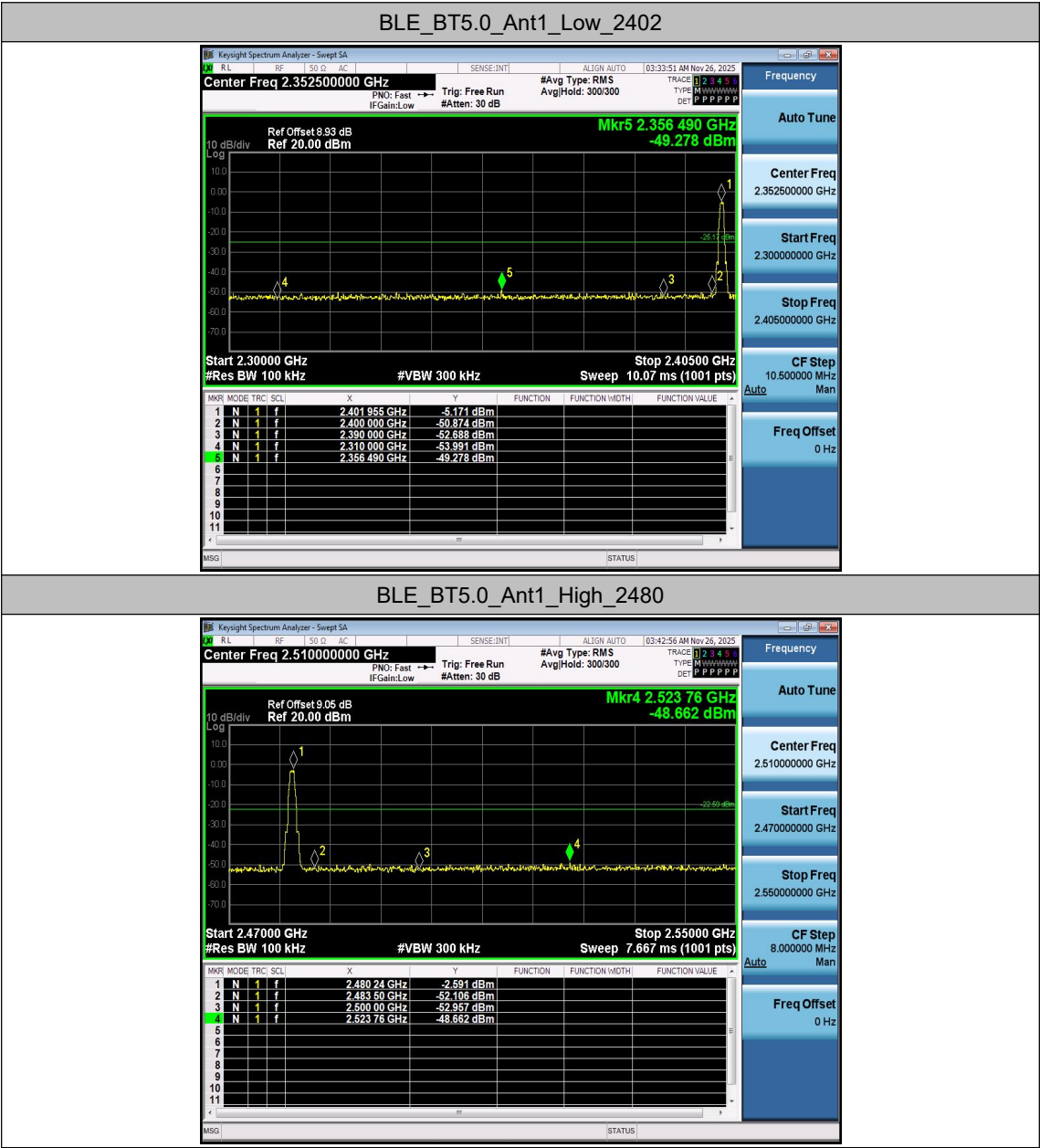


Appendix A.5: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT5.0	Ant1	Low	2402	-5.17	-49.28	≤ -25.17	PASS
		High	2480	-2.59	-48.66	≤ -22.59	PASS

Test Graphs

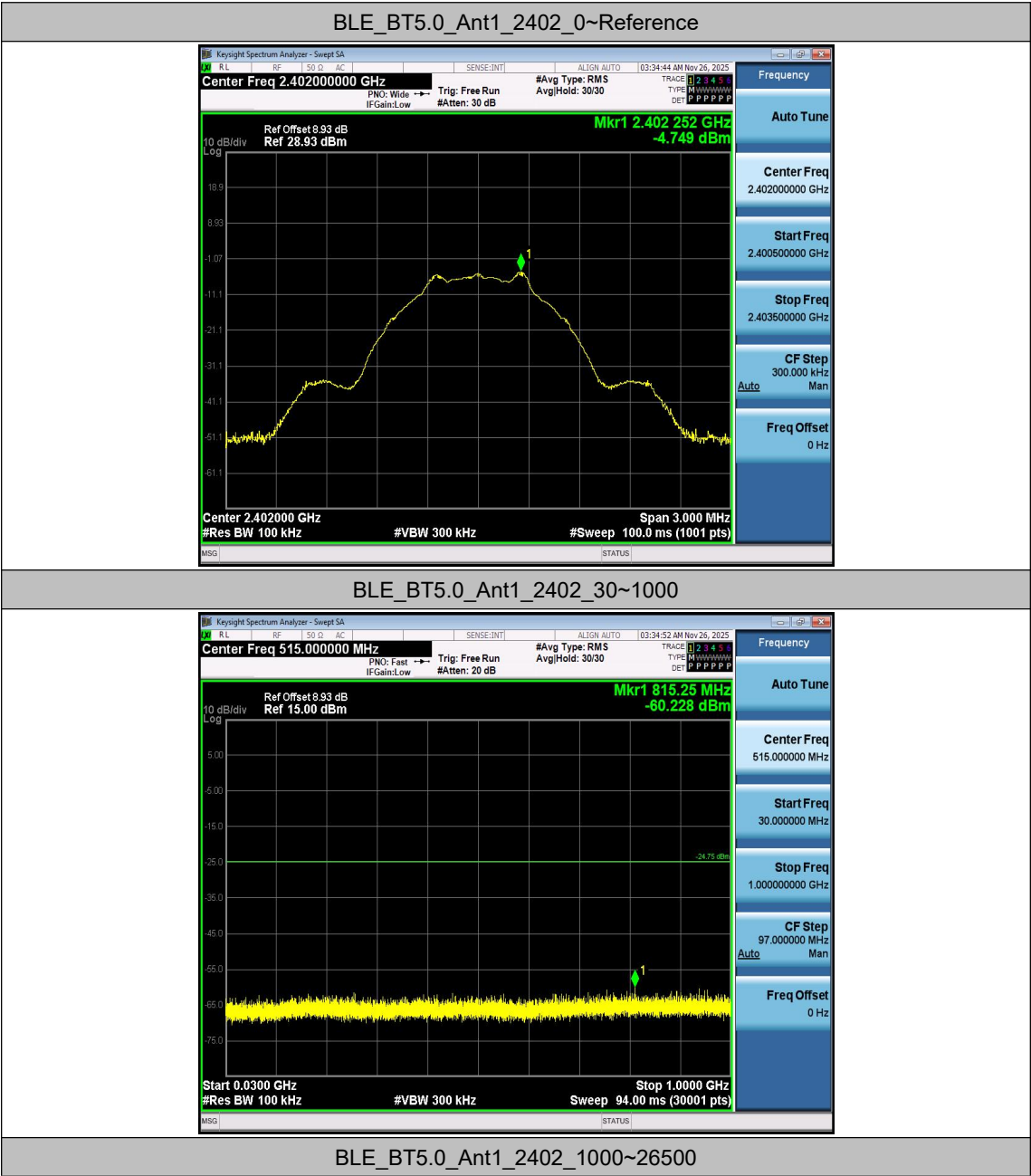


Appendix A.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT5.0	Ant1	2402	Reference	-4.75	-4.75	---	PASS
			30~1000	-4.75	-60.23	≤-24.75	PASS
			1000~26500	-4.75	-46.55	≤-24.75	PASS
		2440	Reference	-2.58	-2.58	---	PASS
			30~1000	-2.58	-60.87	≤-22.58	PASS
			1000~26500	-2.58	-47.55	≤-22.58	PASS
		2480	Reference	-2.66	-2.66	---	PASS
			30~1000	-2.66	-60.4	≤-22.66	PASS
			1000~26500	-2.66	-47.68	≤-22.66	PASS

Test Graphs

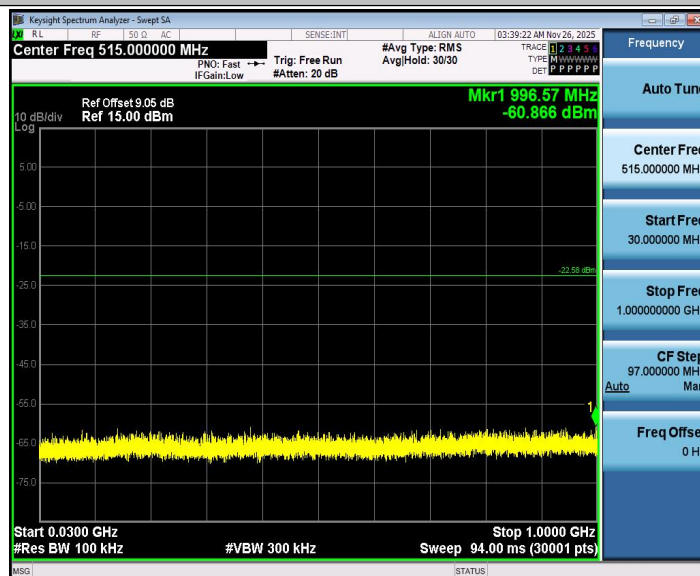


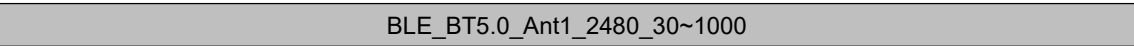
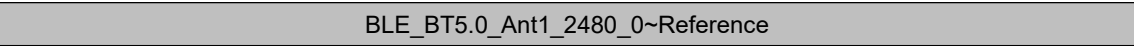


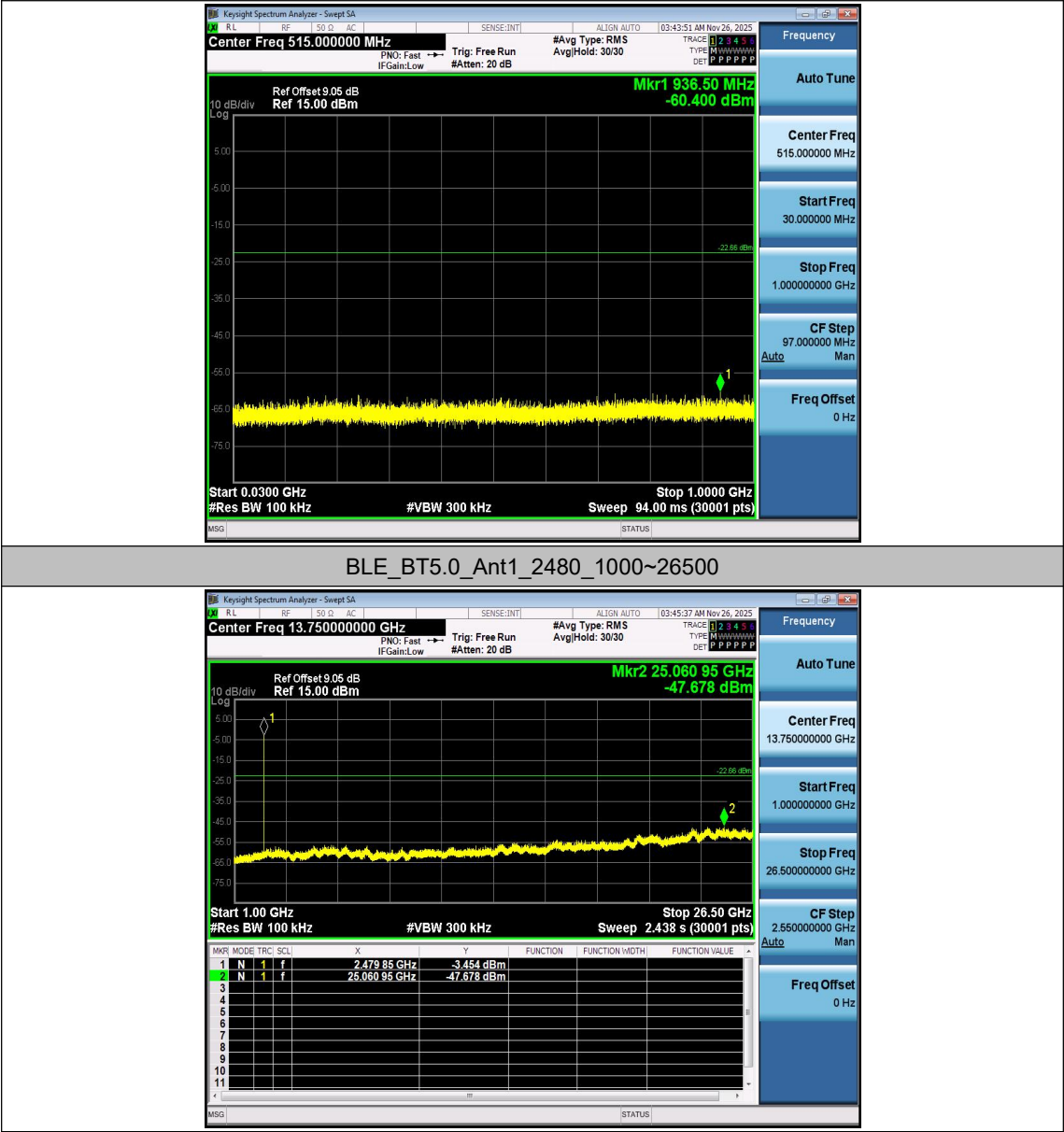
BLE_BT5.0_Ant1_2440_0~Reference



BLE_BT5.0_Ant1_2440_30~1000





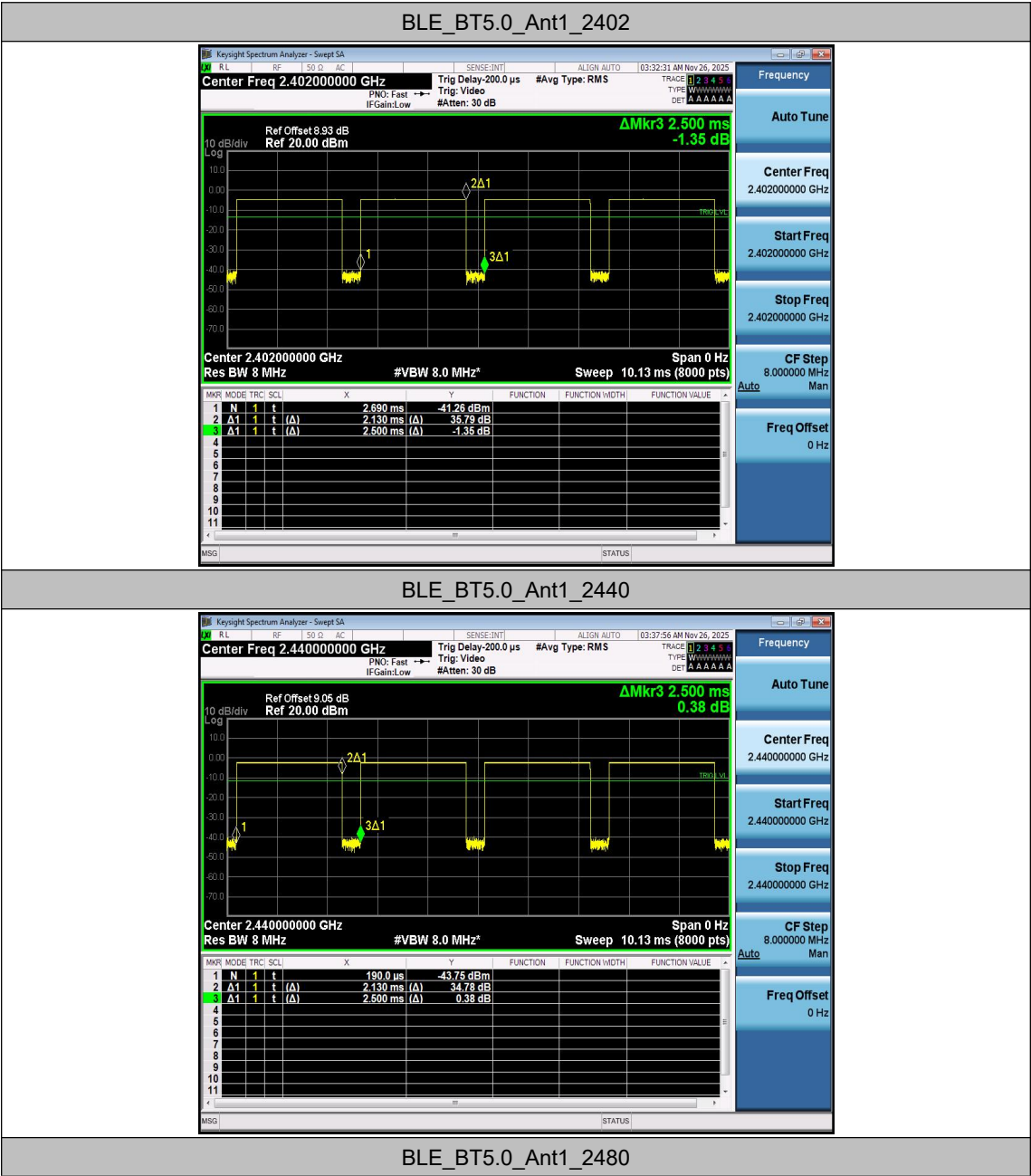


Appendix A.7: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
BLE_BT5.0	Ant1	2402	2.13	2.50	0.8520	85.20	0.70	0.47
		2440	2.13	2.50	0.8520	85.20	0.70	0.47
		2480	2.13	2.51	0.8486	84.86	0.71	0.47

Test Graphs



MSG

STATUS

BLE_BT5.0_Ant1_2440

KeySight Spectrum Analyzer - Swept SA

RF 150.0 AC

SENSE:INT

ALIGN: AUTO

03:37:56 AM Nov 26, 2025

Center Freq 2.440000000 GHz

Trig Delay: 200.0 μ s

#Avg Type: RMS

TRAC 1 2 3 4 5

PNO: Fast

IFGain: Low

Trig: Video

#Atten: 30 dB

TYPE: WWWW

DET: AAAAA

Ref Offset 9.05 dB

Ref 20.00 dBm

Δ Mkr3 2.500 ms

0.38 dB

Center 2.440000000 GHz

Res BW 8 MHz

#VBW 8.0 MHz*

Sweep 10.13 ms (8000 pts)

Span 0 Hz

Auto

CF Step 8.000000 MHz

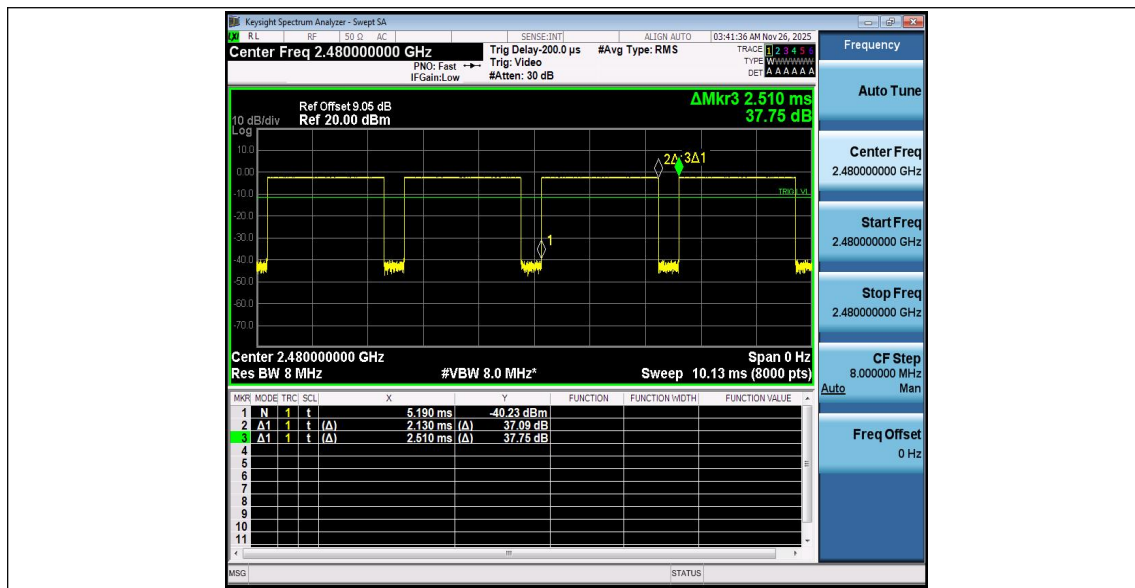
Man

Freq Offset 0 Hz

MSG

STATUS

BLE_BT5.0_Ant1_2480



Appendix A.8: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_BT5.0	Ant1	Low	2402	AV	2310.000	-49.26	≤-41.20	45.94	≤54	PASS
				AV	2388.830	-48.77	≤-41.20	46.43	≤54	PASS
				AV	2390.000	-48.89	≤-41.20	46.31	≤54	PASS
				Peak	2310.000	-42.06	≤-21.20	53.14	≤74	PASS
				Peak	2341.265	-37.79	≤-21.20	57.41	≤74	PASS
				Peak	2390.000	-40.79	≤-21.20	54.41	≤74	PASS
		High	2480	AV	2483.500	-48.41	≤-41.20	46.79	≤54	PASS
				AV	2483.520	-48.41	≤-41.20	46.79	≤54	PASS
				AV	2500.000	-48.61	≤-41.20	46.59	≤54	PASS
				Peak	2483.500	-41.42	≤-21.20	53.78	≤74	PASS
				Peak	2493.200	-38.09	≤-21.20	57.11	≤74	PASS
				Peak	2500.000	-41.83	≤-21.20	53.37	≤74	PASS

Note:

1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. 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

