

Case No. : <u>GTS20260804015-2-02</u>	
Ambient Condition: <u>24</u> °C, <u>49</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2026.8.13-2026.8.27</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	Ant1	2402	0.696	2401.820	2402.516	0.5	PASS
		2440	0.704	2439.808	2440.512	0.5	PASS
		2480	0.700	2479.808	2480.508	0.5	PASS

Test Graphs



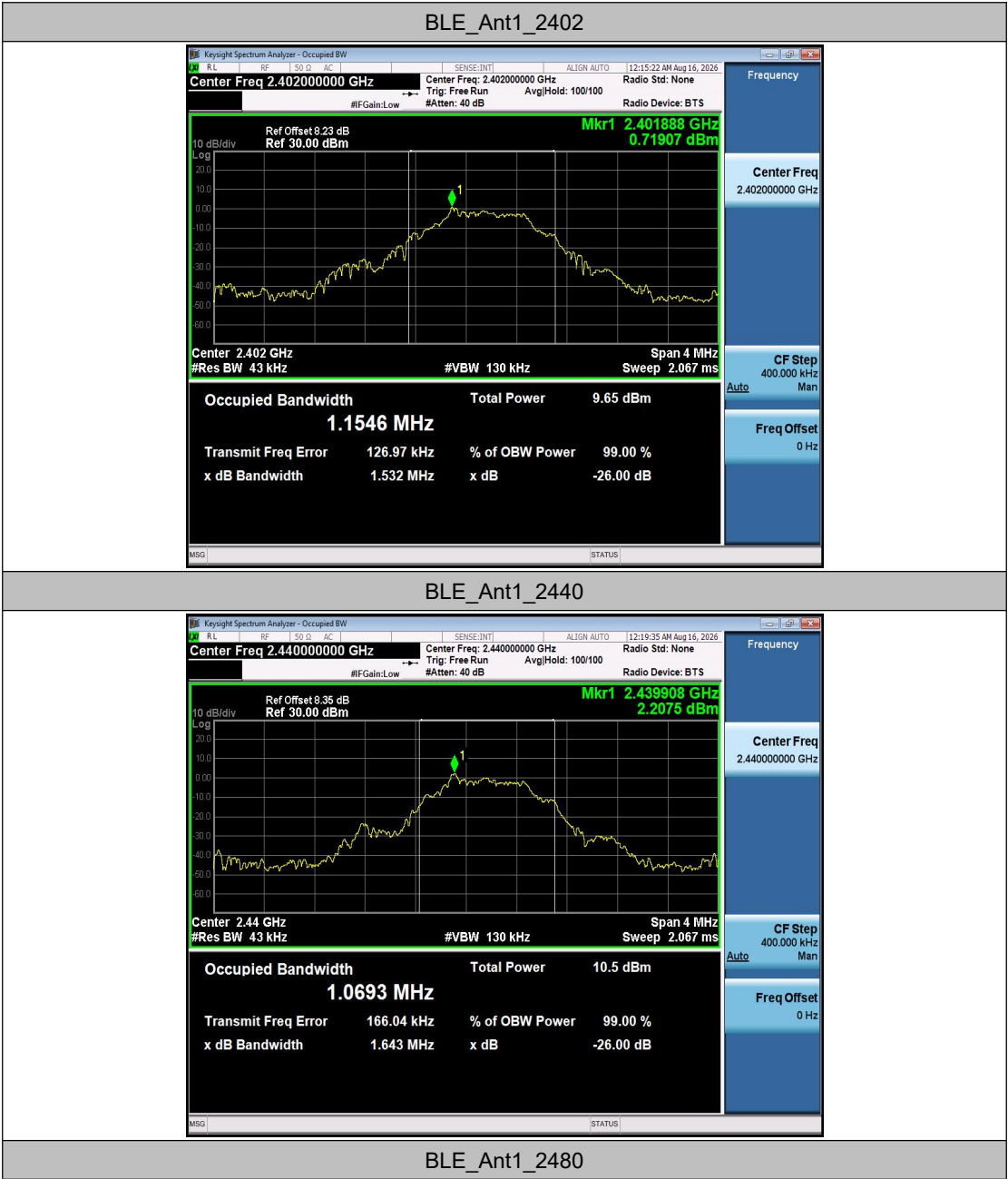


Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.1546	2401.5497	2402.7043	---	---
		2440	1.0693	2439.6314	2440.7007	---	---
		2480	1.0798	2479.6256	2480.7054	---	---

Test Graphs





Appendix A.3: Maximum conducted output power

Test Result

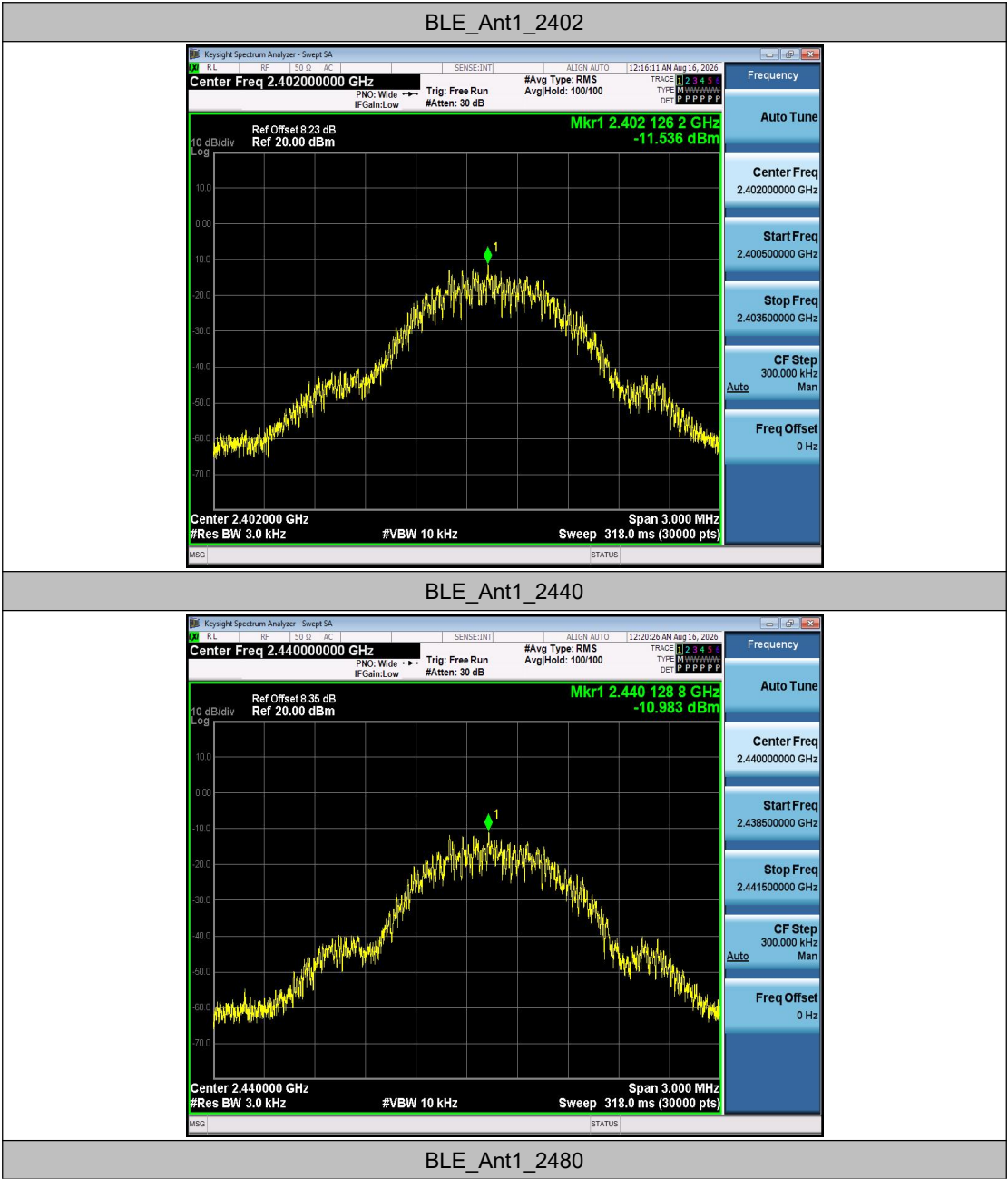
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	2.75	≤30	PASS
		2440	3.49	≤30	PASS
		2480	3.65	≤30	PASS

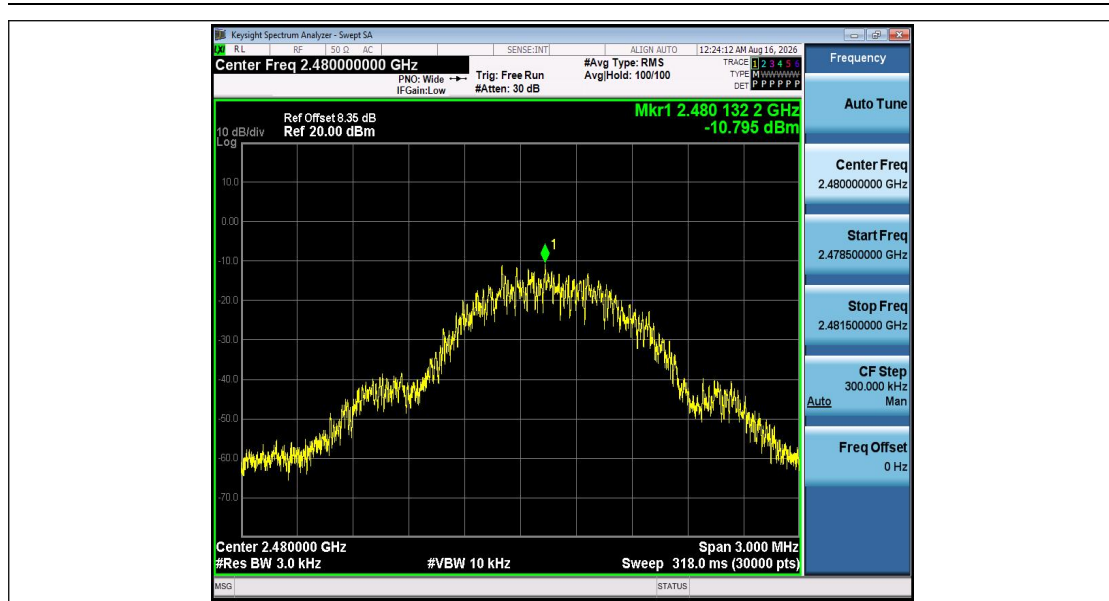
Appendix A.4: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-11.54	≤ 8.00	PASS
		2440	-10.98	≤ 8.00	PASS
		2480	-10.80	≤ 8.00	PASS

Test Graphs



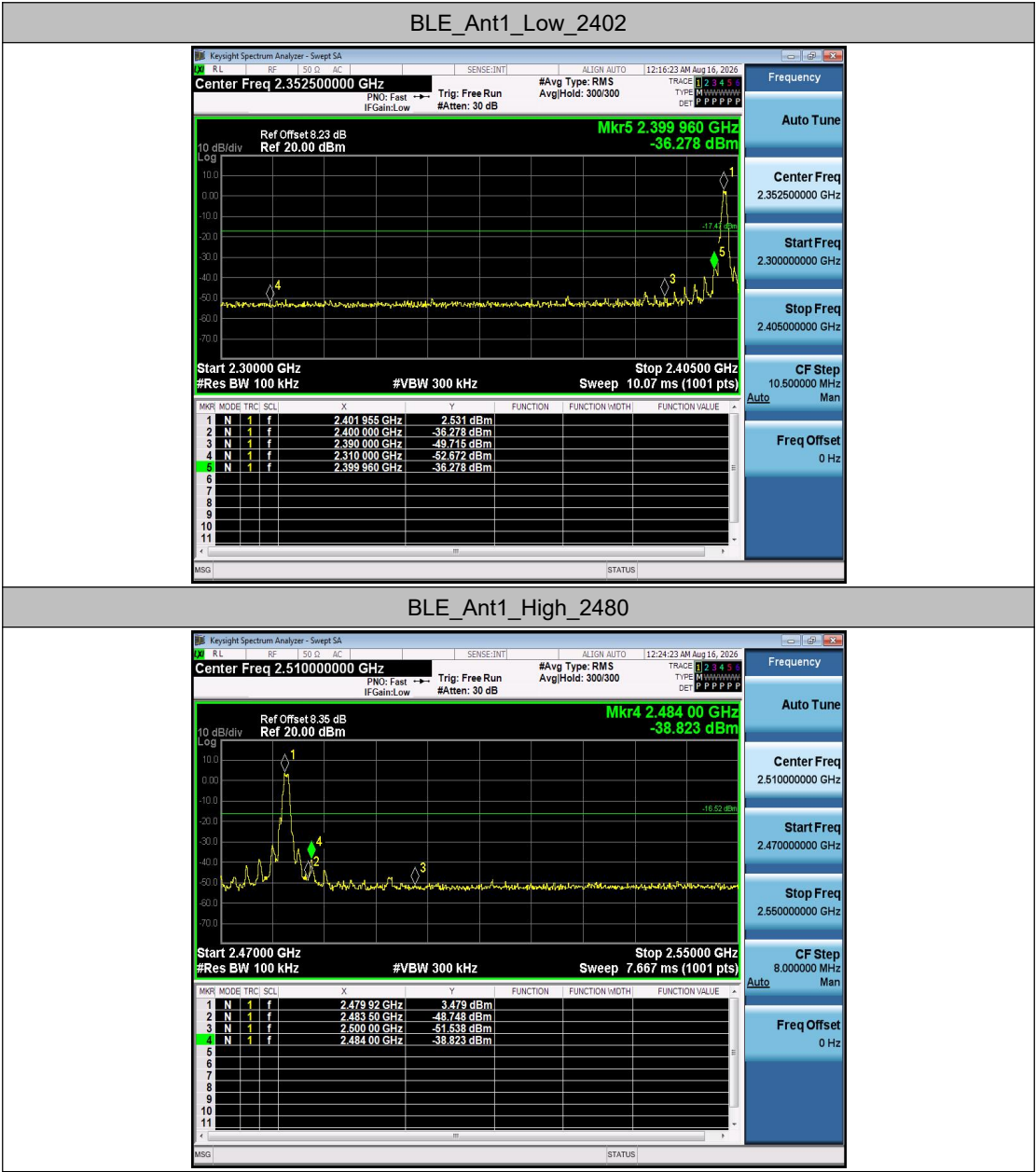


Appendix A.5: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE	Ant1	Low	2402	2.53	-36.28	≤-17.47	PASS
		High	2480	3.48	-38.82	≤-16.52	PASS

Test Graphs

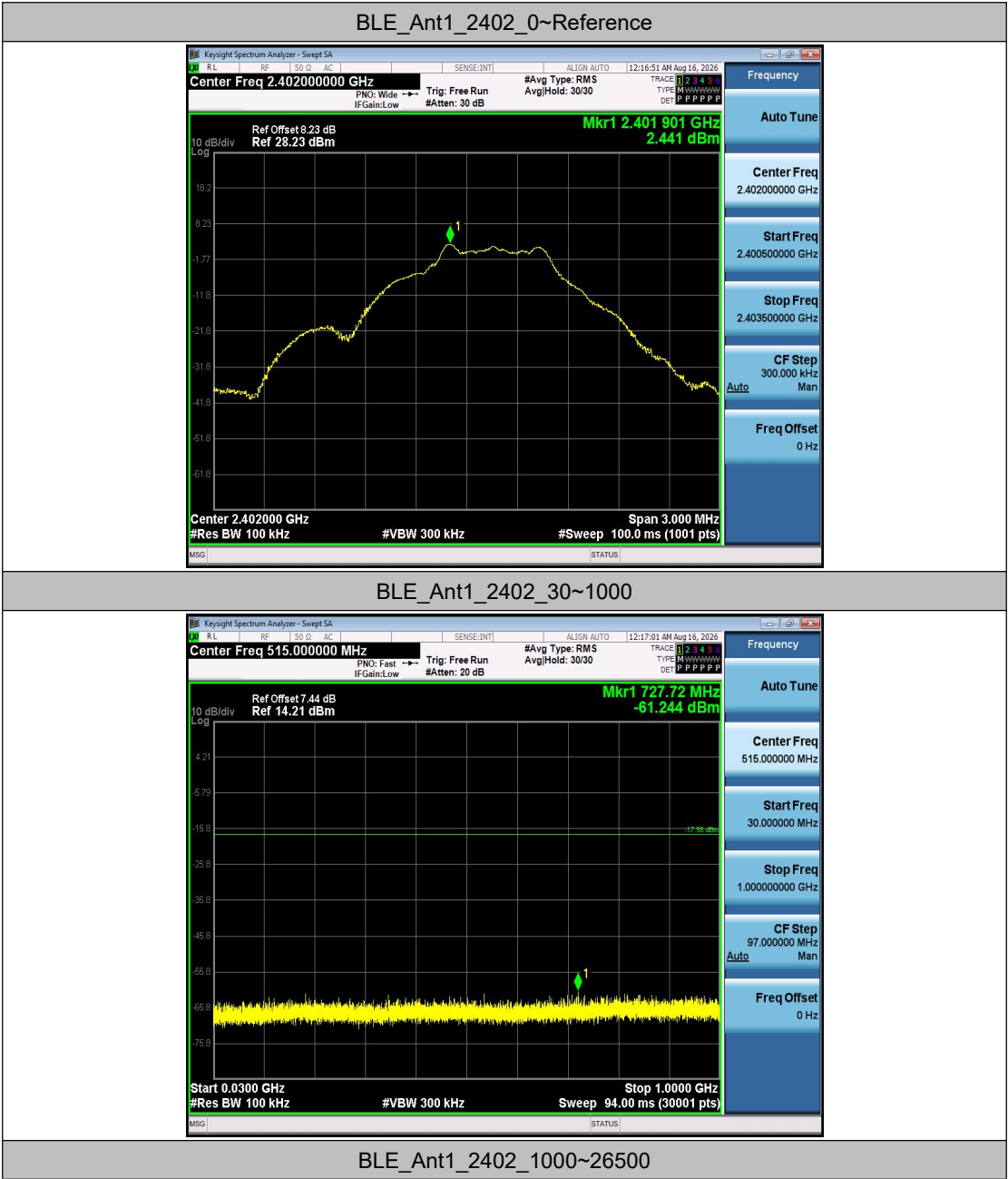


Appendix A.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	2.44	2.44	---	PASS
			30~1000	2.44	-61.24	≤-17.56	PASS
			1000~26500	2.44	-47.4	≤-17.56	PASS
		2440	Reference	3.20	3.20	---	PASS
			30~1000	3.20	-61.56	≤-16.8	PASS
			1000~26500	3.20	-47.6	≤-16.8	PASS
		2480	Reference	3.46	3.46	---	PASS
			30~1000	3.46	-60.31	≤-16.54	PASS
			1000~26500	3.46	-48.18	≤-16.54	PASS

Test Graphs

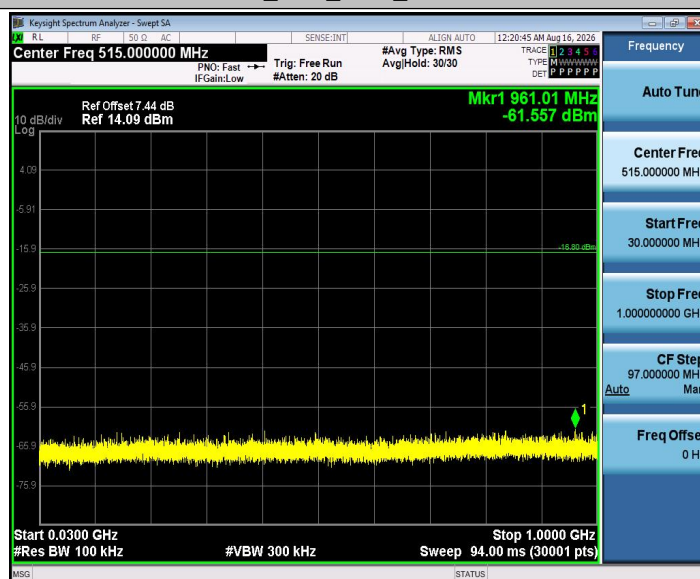


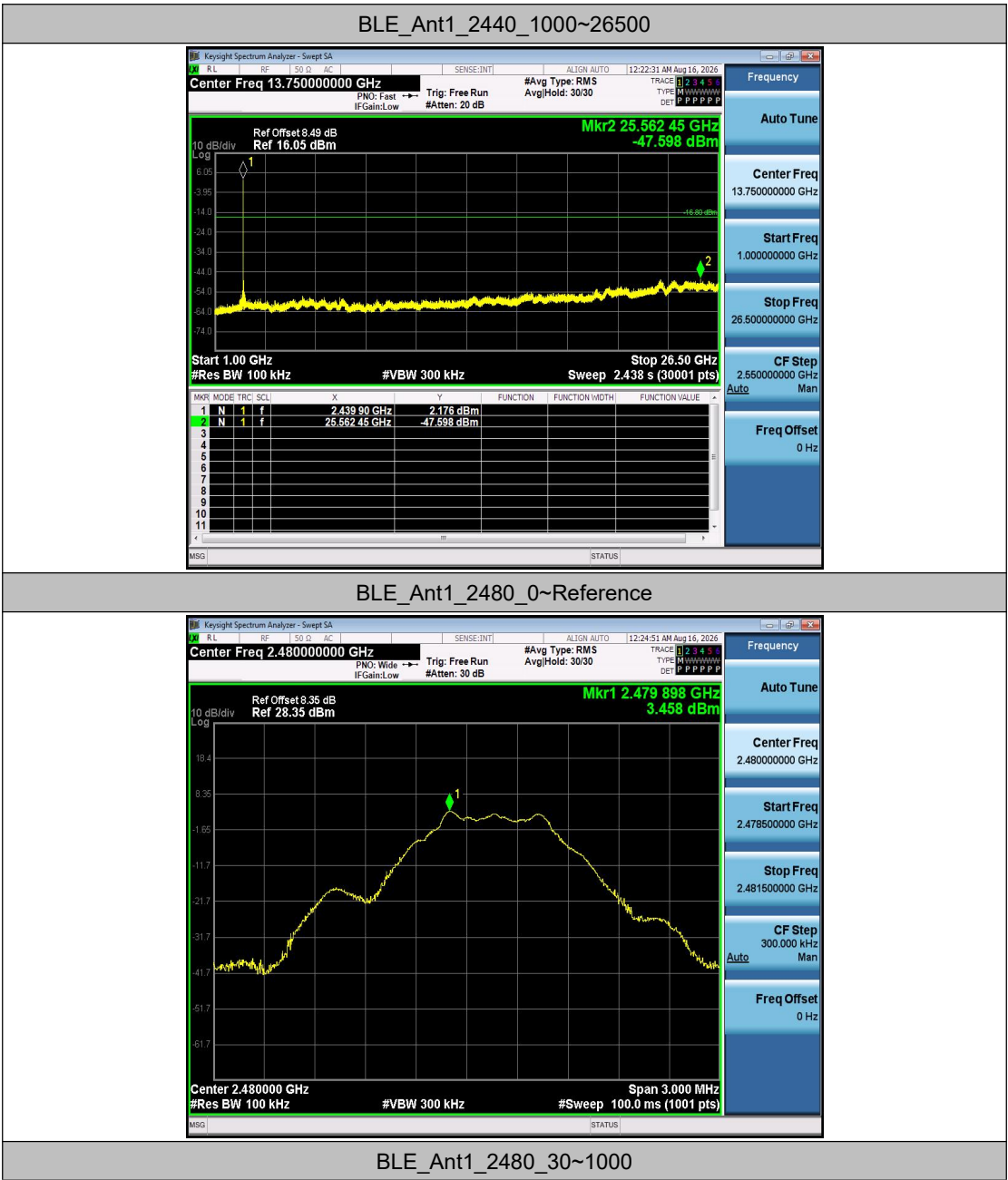


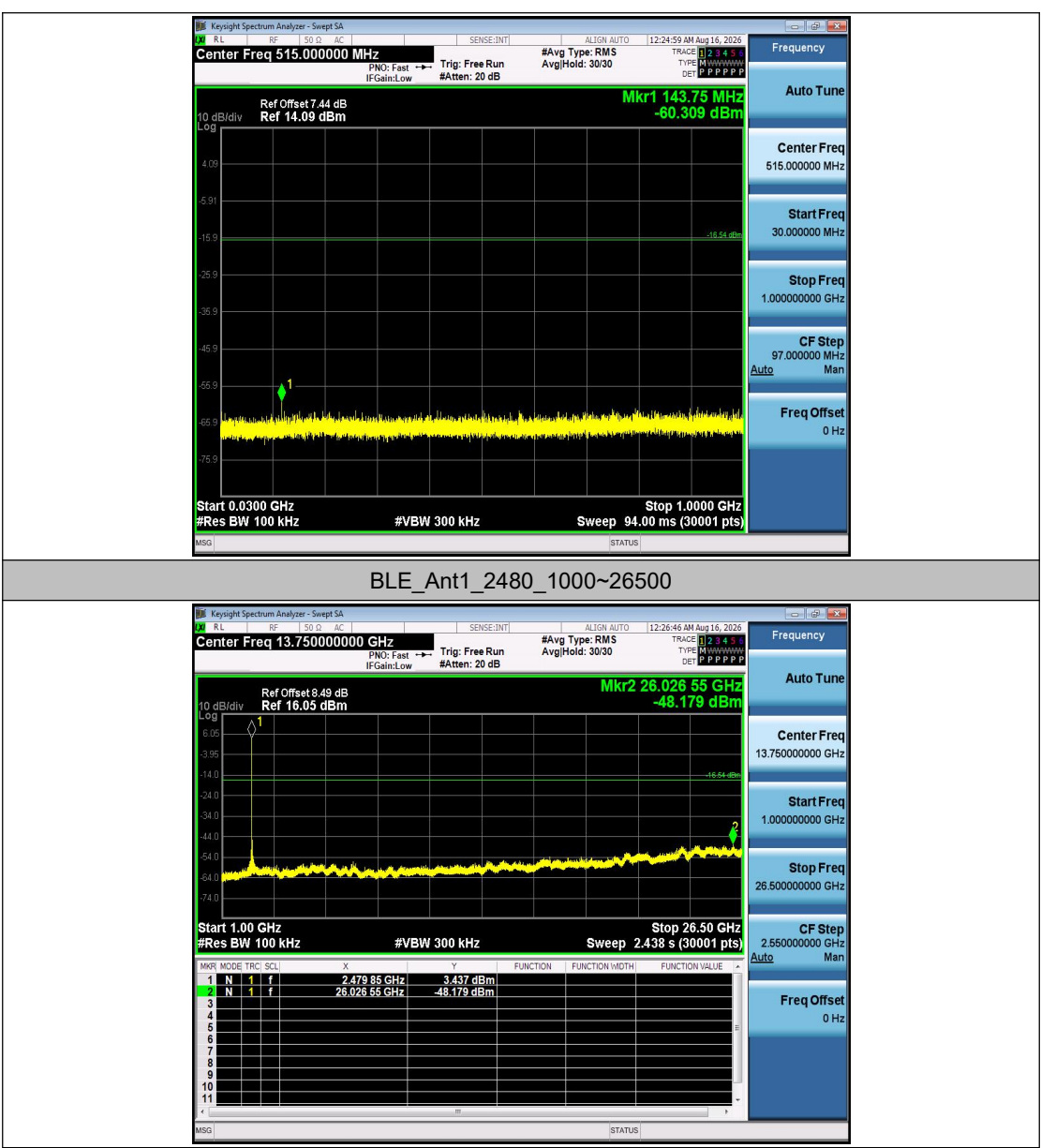
BLE_Ant1_2440_0~Reference



BLE_Ant1_2440_30~1000





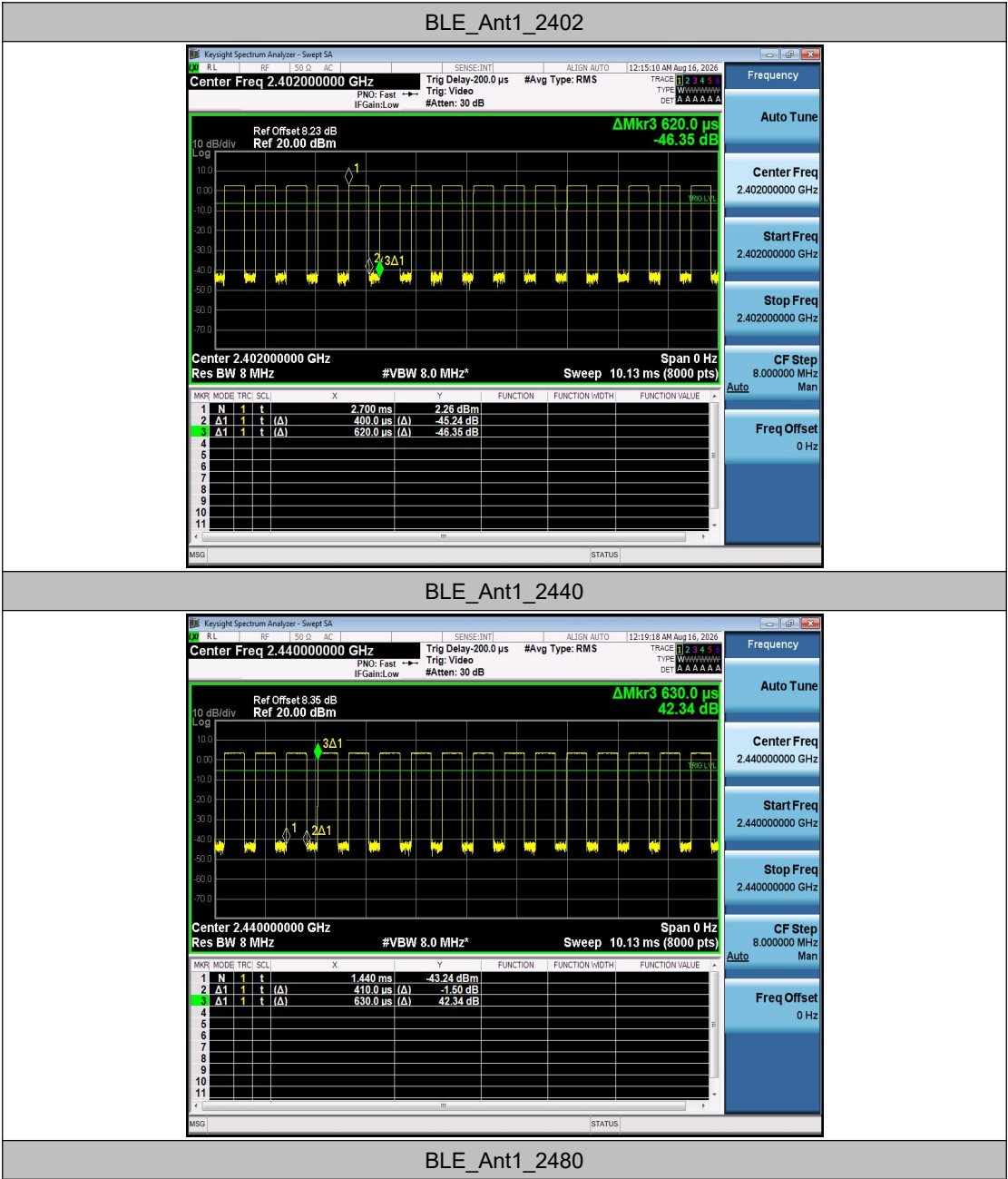


Appendix A.7: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
BLE	Ant1	2402	0.40	0.62	0.6452	64.52	1.90	2.50
		2440	0.41	0.63	0.6508	65.08	1.87	2.44
		2480	0.40	0.63	0.6349	63.49	1.97	2.50

Test Graphs



BLE_Ant1_2440

KeySight Spectrum Analyzer - Swept SA

RF: 150.0 AC

SENSE:INT

ALIGN: AUTO

12:19:18 AM Aug 16, 2026

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

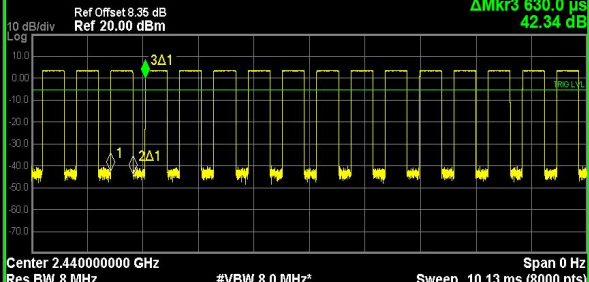
10 dB/div

Ref Offset 8.35 dB

Ref 20.00 dBm

Δ Mkr3 630.0 μ s

42.34 dB



Center 2.440000000 GHz

Res BW 8 MHz

#VBW 8.0 MHz

Sweep 10.13 ms (8000 pts)

Span 0 Hz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION (MATH)	FUNCTION VALUE
1	N	1	t	1.440 ms	-43.24 dBm			
2	Δ 1	1	t	410.0 μ s (Δ)	-1.50 dB			
3	Δ 1	1	t	630.0 μ s (Δ)	42.34 dB			
4								
5								
6								
7								
8								
9								
10								
11								

MSG

STATUS

Frequency

Auto Tune

Center Freq
2.440000000 GHz

Start Freq
2.440000000 GHz

Stop Freq
2.440000000 GHz

CF Step
8.000000 MHz
Auto Man

Freq Offset
0 Hz

BLE_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	Ant1	Low	2402	AV	2310.000	-49.12	≤-41.20	46.08	≤54	PASS
				AV	2385.890	-44.84	≤-41.20	50.36	≤54	PASS
				AV	2390.000	-47.44	≤-41.20	47.76	≤54	PASS
				Peak	2310.000	-44.02	≤-21.20	51.18	≤74	PASS
				Peak	2388.305	-36.12	≤-21.20	59.08	≤74	PASS
				Peak	2390.000	-40.31	≤-21.20	54.89	≤74	PASS
		High	2480	AV	2483.500	-44.87	≤-41.20	50.33	≤54	PASS
				AV	2483.520	-44.87	≤-41.20	50.33	≤54	PASS
				AV	2500.000	-48.98	≤-41.20	46.22	≤54	PASS
				Peak	2483.500	-39.31	≤-21.20	55.89	≤74	PASS
				Peak	2496.320	-38.75	≤-21.20	56.45	≤74	PASS
				Peak	2500.000	-42.62	≤-21.20	52.58	≤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

