

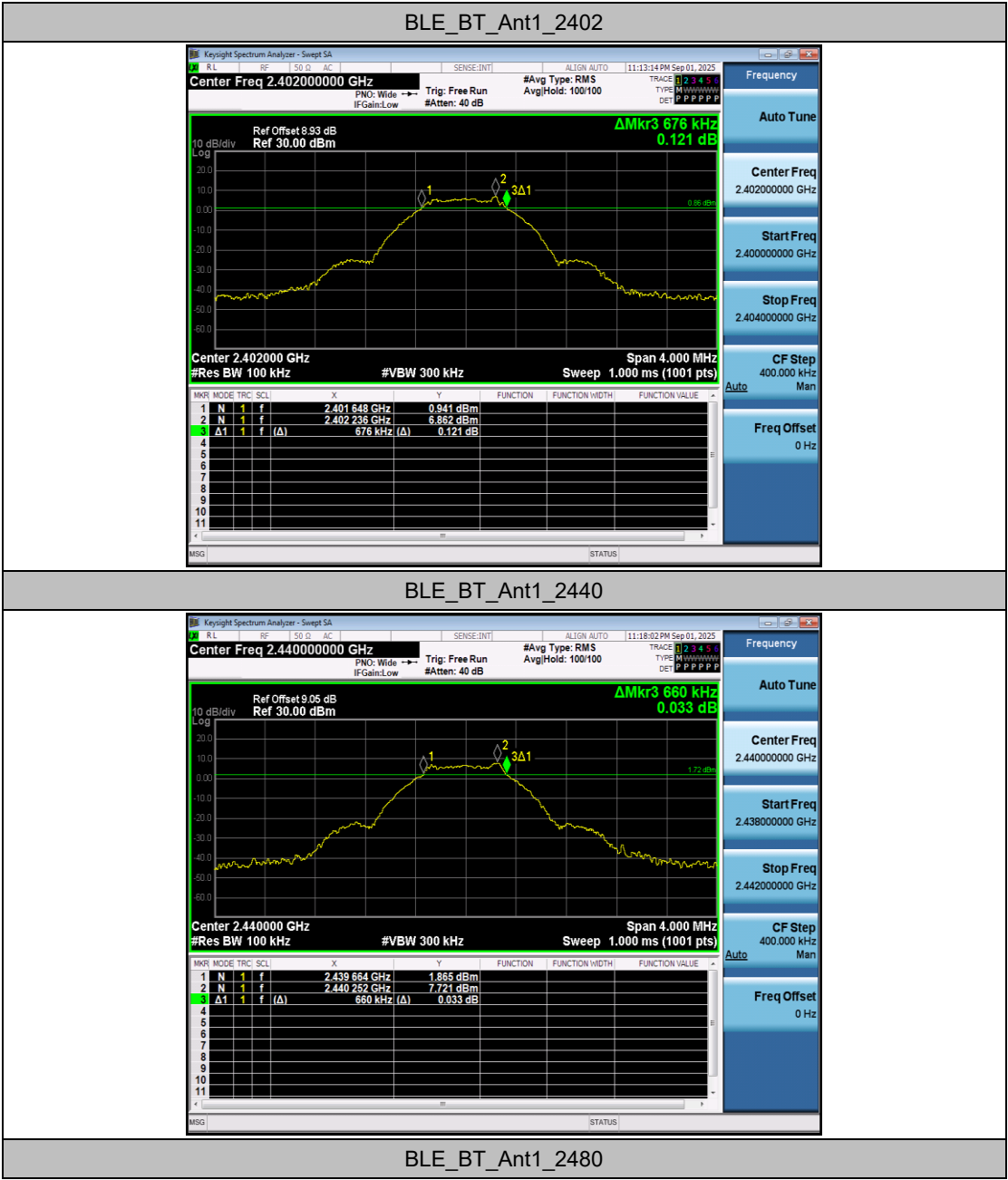
Case No. : <u>GTS20250626004-4-1</u>	
Ambient Condition: <u>22</u> °C, <u>59</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.9.1</u>	Test Engineer: <u>Evan ouyang</u>

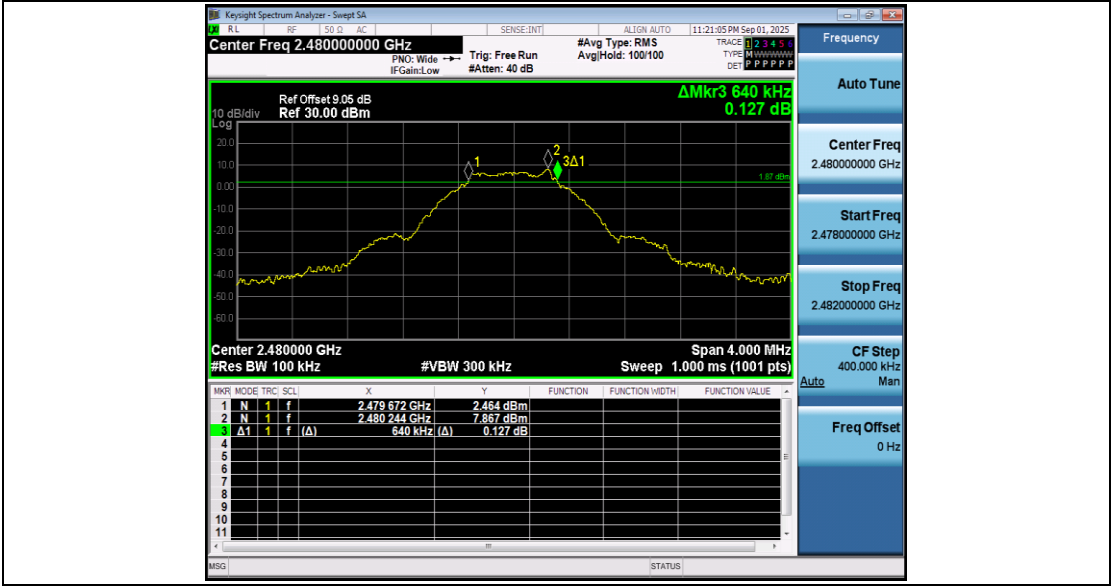
Appendix B.1: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_BT	Ant1	2402	0.676	2401.648	2402.324	0.5	PASS
		2440	0.660	2439.664	2440.324	0.5	PASS
		2480	0.640	2479.672	2480.312	0.5	PASS

Test Graphs



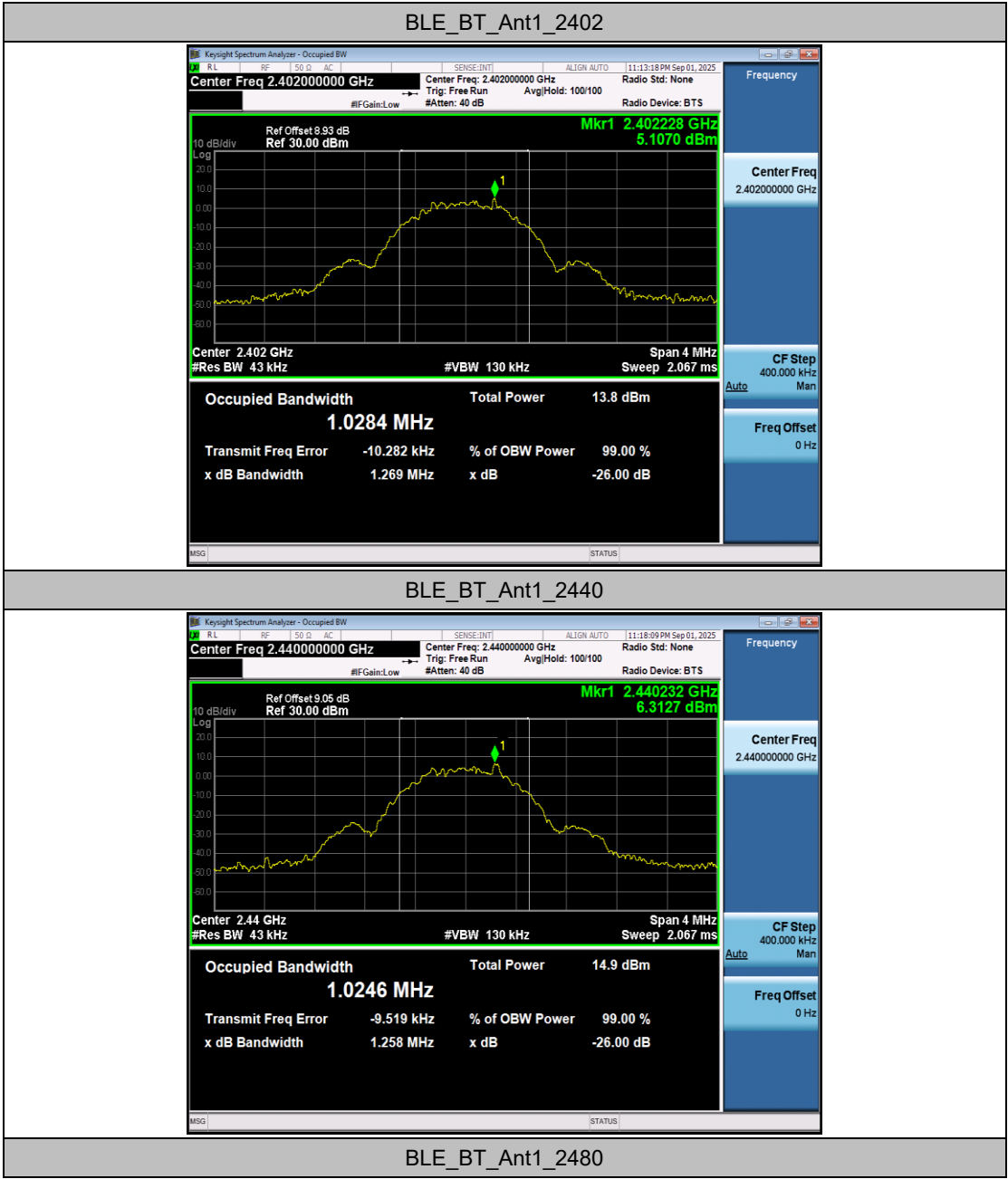


Appendix B.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_BT	Ant1	2402	1.0284	2401.4755	2402.5039	---	---
		2440	1.0246	2439.4782	2440.5028	---	---
		2480	1.0280	2479.4764	2480.5044	---	---

Test Graphs





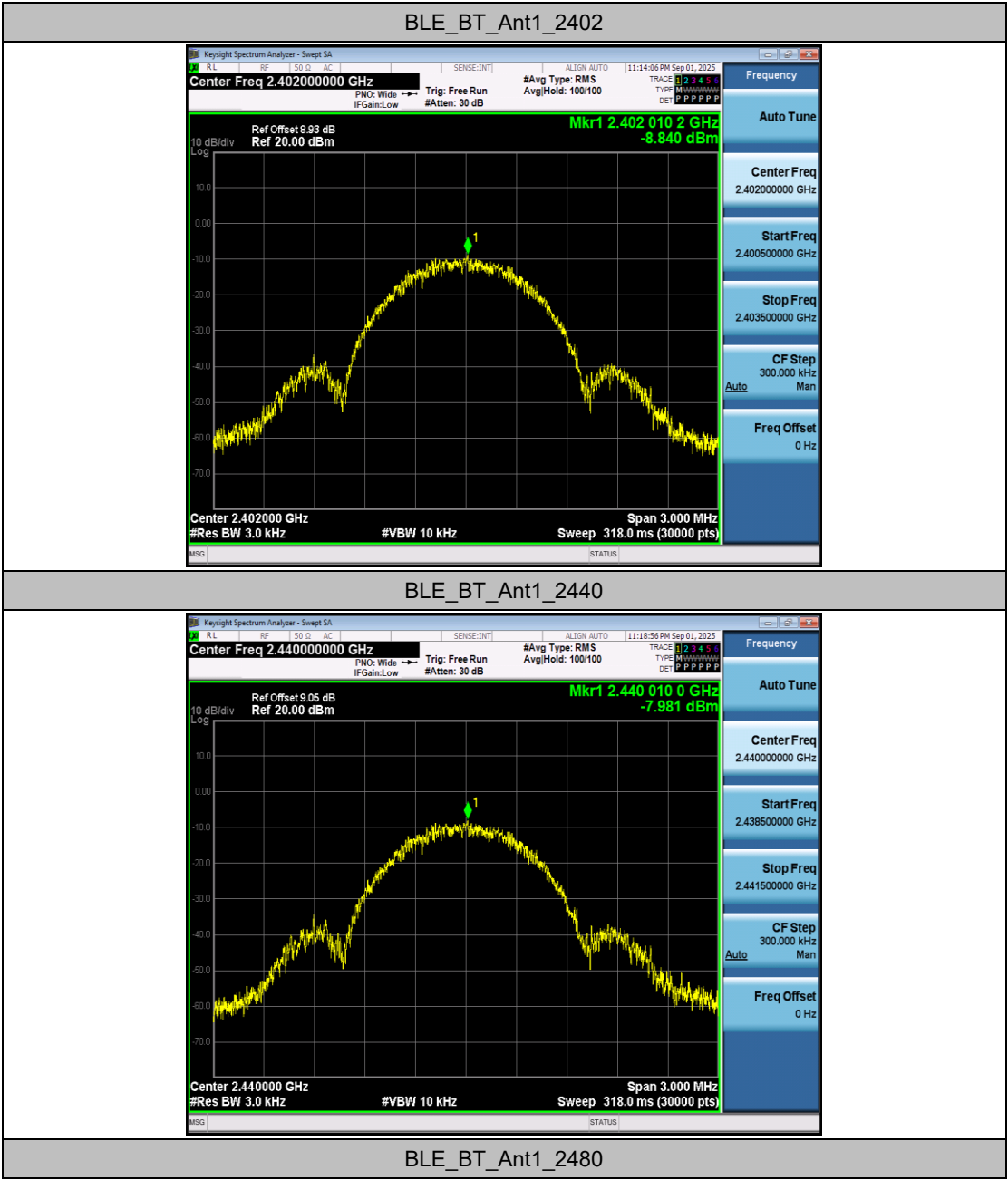
Appendix B.3: Maximum conducted output power

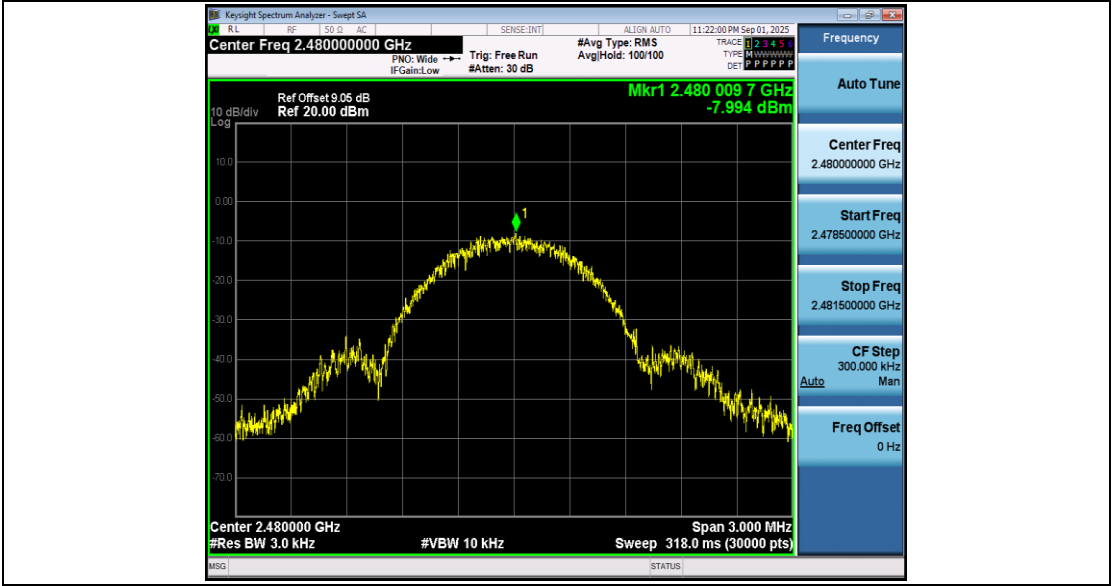
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_BT	Ant1	2402	7.27	≤30	PASS
		2440	8.18	≤30	PASS
		2480	8.19	≤30	PASS

Appendix B.4: Maximum power spectral density

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_BT	Ant1	2402	-8.84	≤8.00	PASS
		2440	-7.98	≤8.00	PASS
		2480	-7.99	≤8.00	PASS

Test Graphs



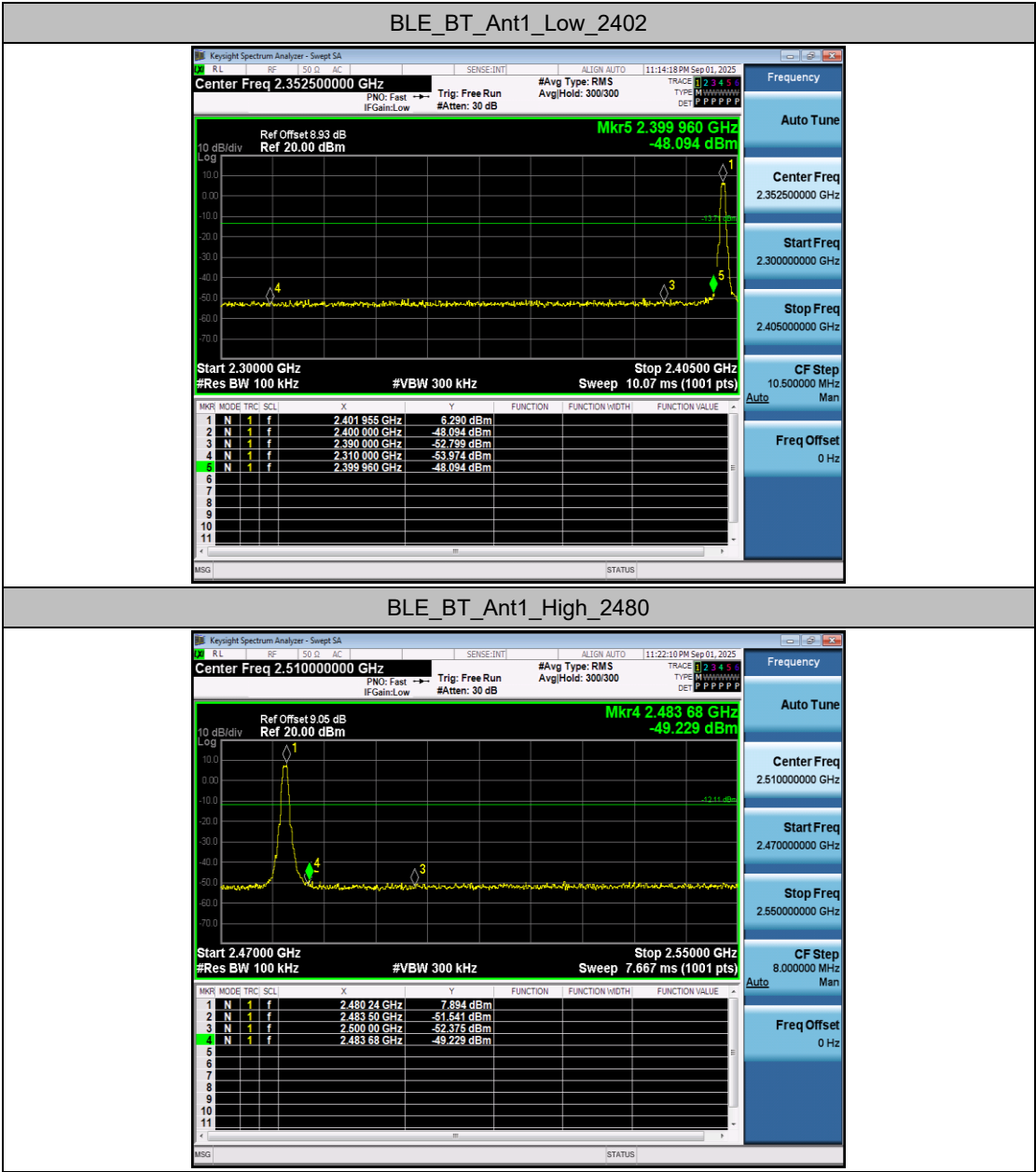


Appendix B.5: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT	Ant1	Low	2402	6.29	-48.09	≤-13.71	PASS
		High	2480	7.89	-49.23	≤-12.11	PASS

Test Graphs

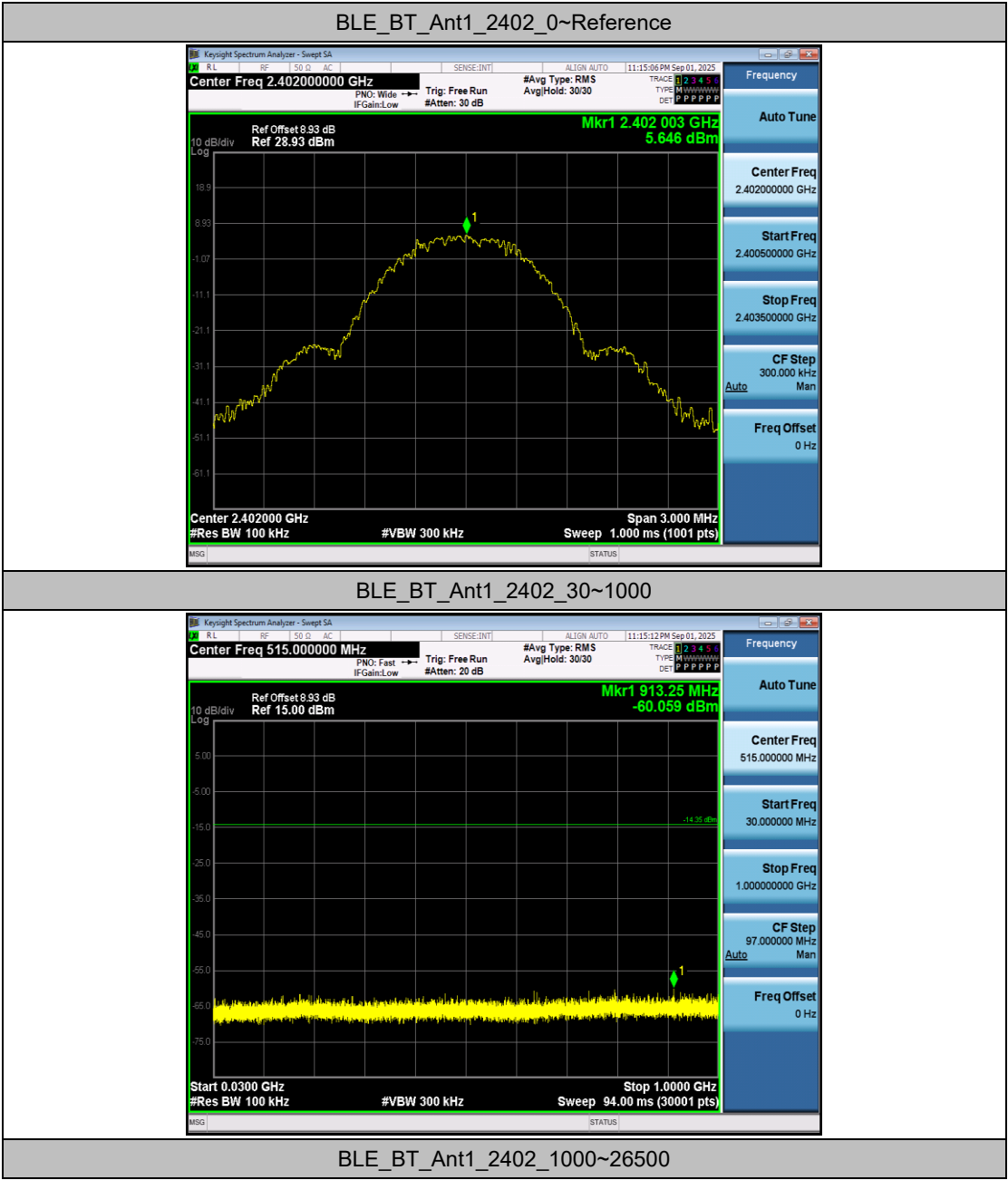


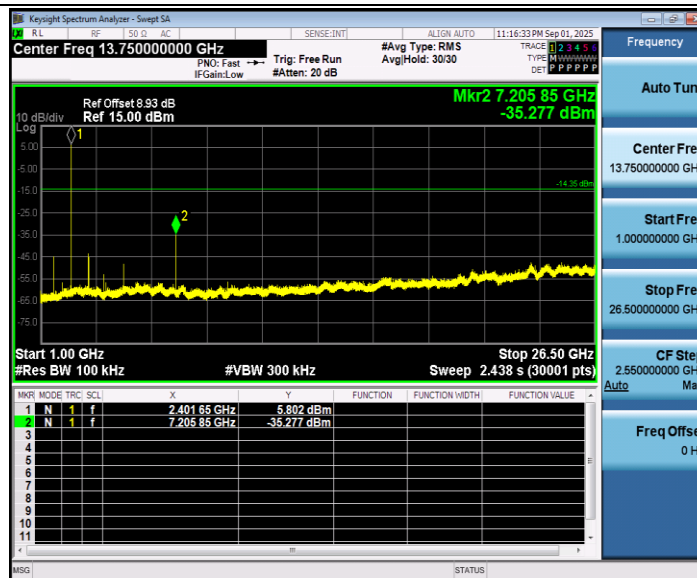
Appendix B.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT	Ant1	2402	Reference	5.65	5.65	---	PASS
			30~1000	5.65	-60.06	≤-14.35	PASS
			1000~26500	5.65	-35.28	≤-14.35	PASS
		2440	Reference	7.16	7.16	---	PASS
			30~1000	7.16	-60.15	≤-12.84	PASS
			1000~26500	7.16	-37.13	≤-12.84	PASS
		2480	Reference	6.74	6.74	---	PASS
			30~1000	6.74	-60.58	≤-13.26	PASS
			1000~26500	6.74	-41.85	≤-13.26	PASS

Test Graphs

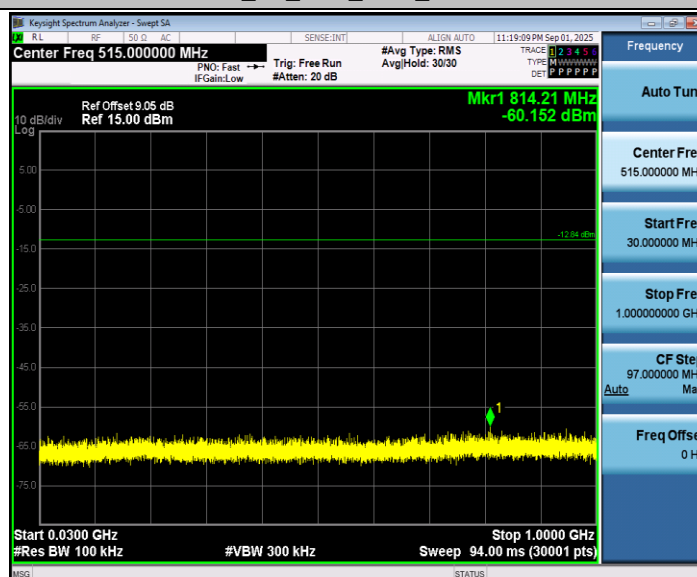


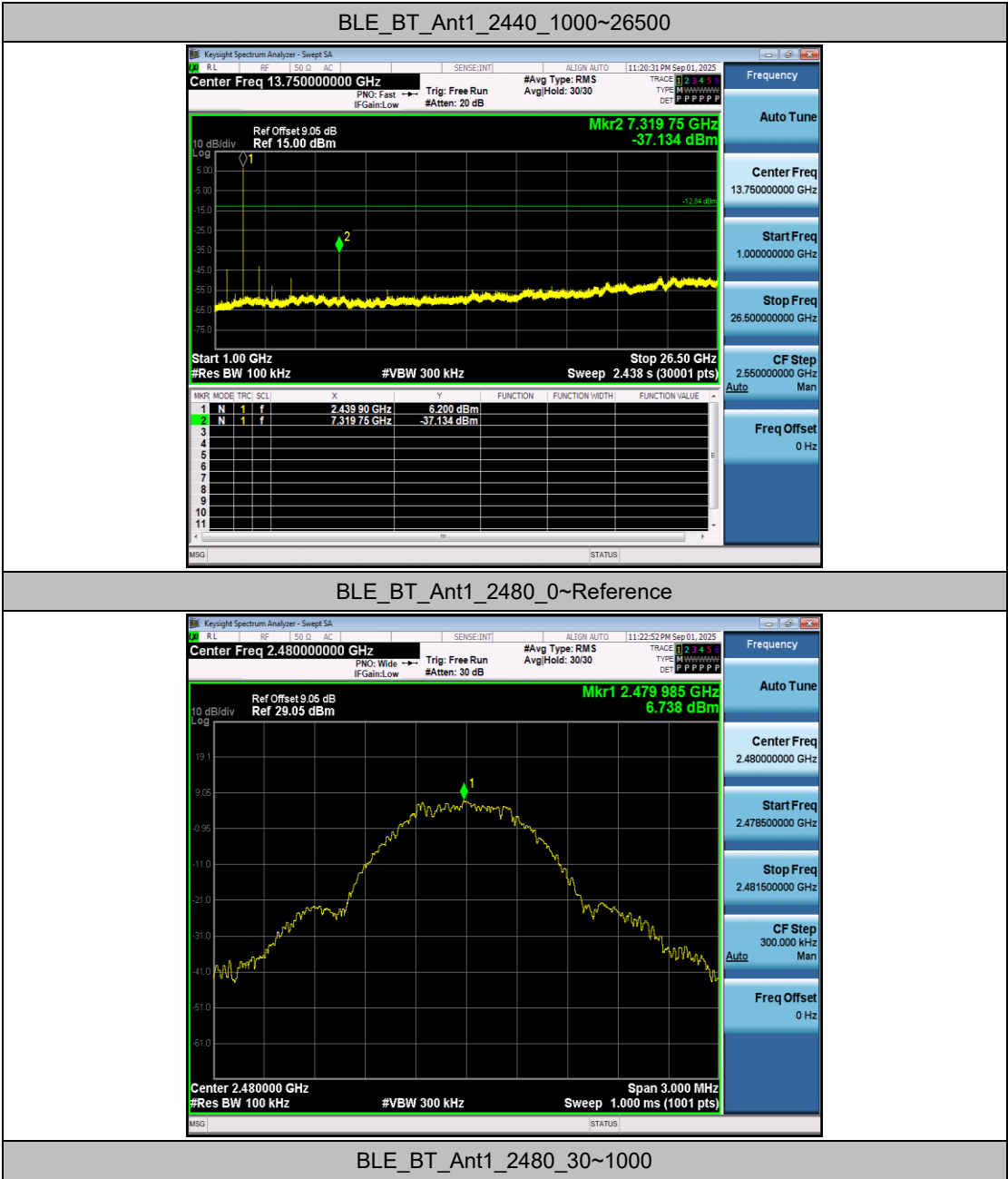


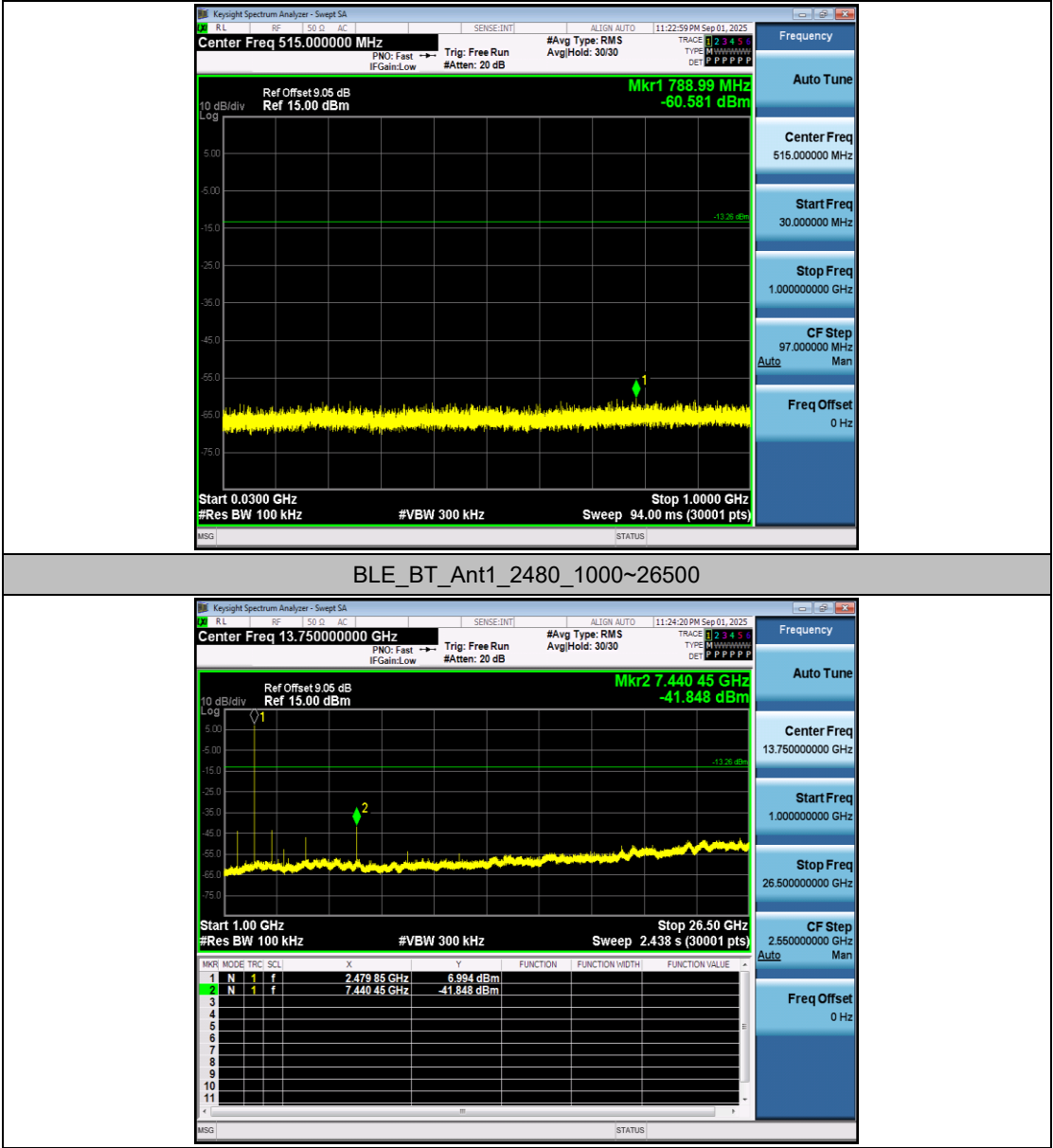
BLE_BT_Ant1_2440_0~Reference



BLE_BT_Ant1_2440_30~1000





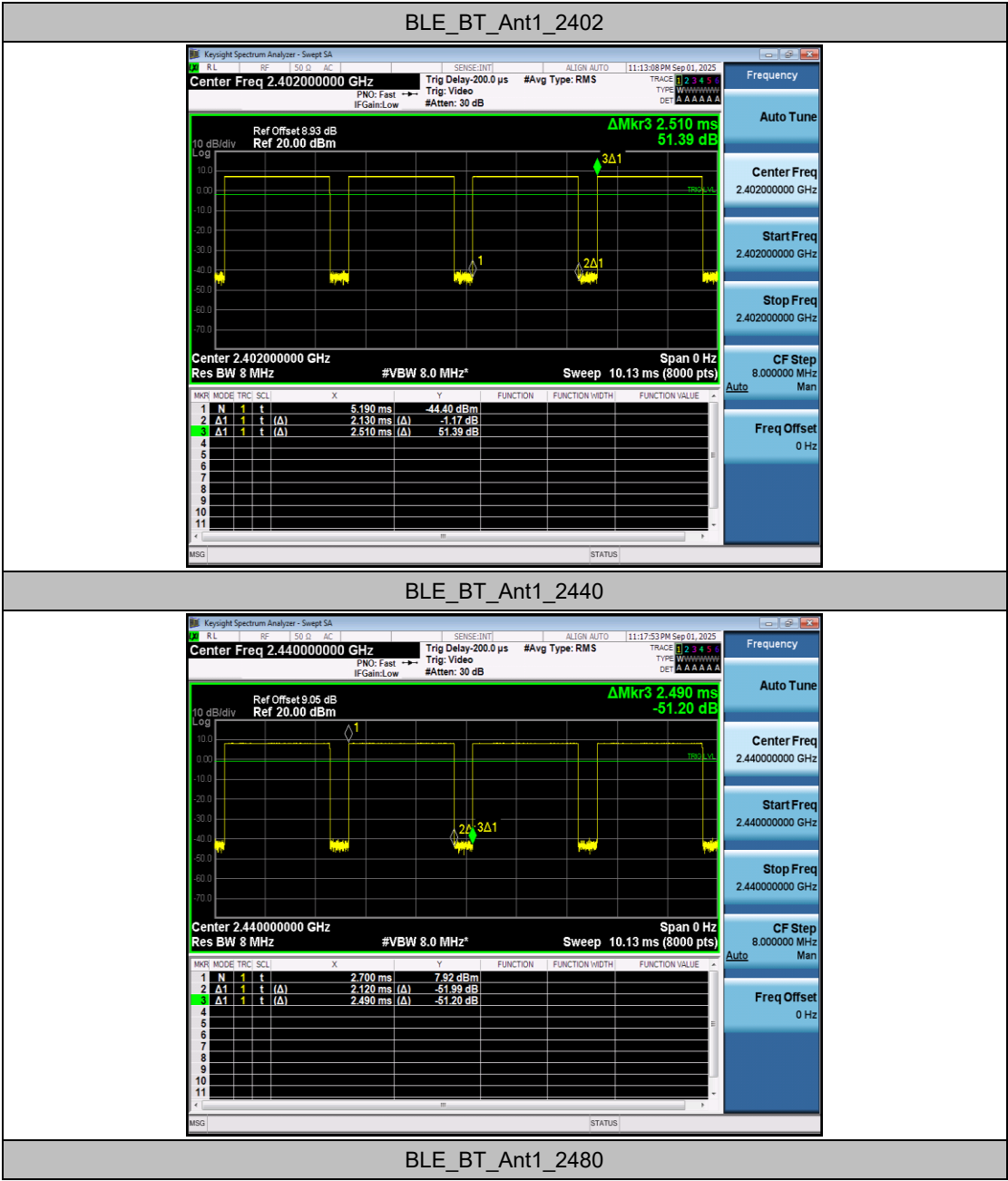


Appendix B.7: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
BLE_BT	Ant1	2402	2.13	2.51	0.8486	84.86	0.71	0.47
		2440	2.12	2.49	0.8514	85.14	0.70	0.47
		2480	2.13	2.51	0.8486	84.86	0.71	0.47

Test Graphs



Frequency

Auto Tune

Center Freq
2.402000000 GHz

Start Freq
2.402000000 GHz

Stop Freq
2.402000000 GHz

CF Step
8.0000000 MHz
Man

Freq Offset
0 Hz

BLE_BT_Ant1_2440

KeySight Spectrum Analyzer - Sweep SA

RF 150.0 AC

SENSE:INT1

ALIGN AUTO

11:17:53 PM Sep 01, 2025

Center Freq 2.440000000 GHz

Trig Delay: 200.0 μ s

#Avg Type: RMS

TRACED 1 2 3 4 5

PNO: Fast

IFGain: Low

Trig: Video

#Atten: 30 dB

TYPE WWWWWWW

DET AAAAAA

10 dB/div

Ref Offset 9.05 dB

Ref 20.00 dBm

Δ Mkr3 2.490 ms

-51.20 dB

2 Δ 3 Δ 1

1

TRIG=VLA

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 WIDTH	FUNCTION VALUE
1	N	1	t	2.700 ms	7.92 dBm			
2	Δ 1	1	t	(Δ) 2.120 ms	-51.99 dB			
3	Δ 1	1	t	(Δ) 2.490 ms	-51.20 dB			
4								
5								
6								
7								
8								
9								
10								
11								

MSG

STATUS

Frequency

Auto Tune

Center Freq
2.440000000 GHz

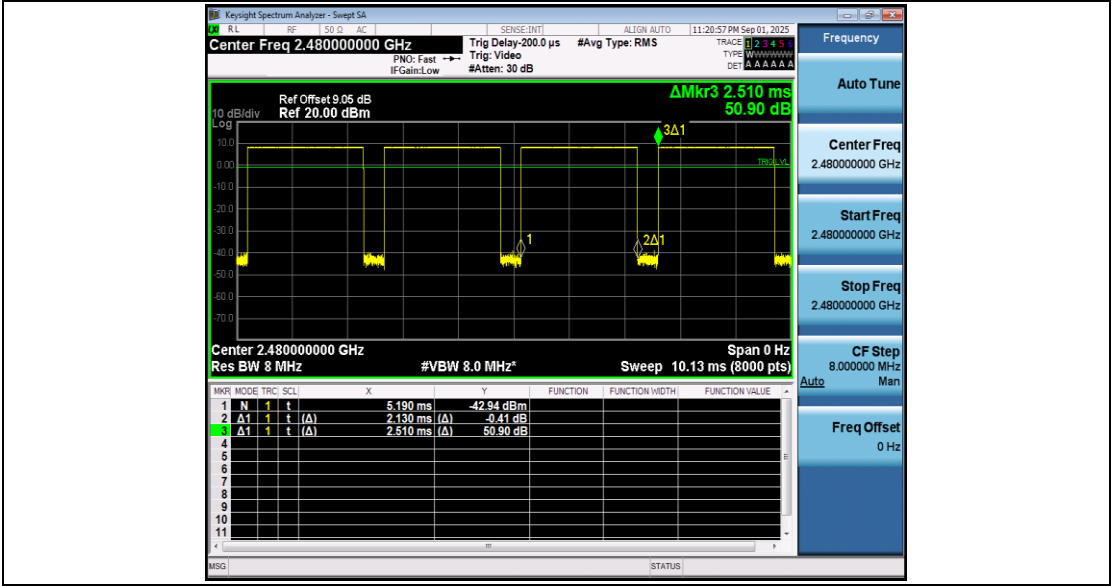
Start Freq
2.440000000 GHz

Stop Freq
2.440000000 GHz

CF Step
8.0000000 MHz
Man

Freq Offset
0 Hz

BLE_BT_Ant1_2480



Appendix B.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_BT	Ant1	Low	2402	AV	2310.000	-49.49	≤-41.20	45.71	≤54	PASS
				AV	2388.935	-49.01	≤-41.20	46.19	≤54	PASS
				AV	2390.000	-49.15	≤-41.20	46.05	≤54	PASS
				Peak	2310.000	-40.81	≤-21.20	54.39	≤74	PASS
				Peak	2374.235	-38.65	≤-21.20	56.55	≤74	PASS
				Peak	2390.000	-41.12	≤-21.20	54.08	≤74	PASS
		High	2480	AV	2483.500	-45.17	≤-41.20	50.03	≤54	PASS
				AV	2483.520	-45.17	≤-41.20	50.03	≤54	PASS
				AV	2500.000	-48.57	≤-41.20	46.63	≤54	PASS
				Peak	2483.500	-38.75	≤-21.20	56.45	≤74	PASS
				Peak	2483.520	-38.75	≤-21.20	56.45	≤74	PASS
				Peak	2500.000	-40.21	≤-21.20	54.99	≤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

