

Case No. : <u>GTS20251009011-6-01</u>
Ambient Condition: <u>25</u> °C, <u>47</u> %RH
According Standard: ■Part15C
Test Date: <u>2025.10.14-2025.10.30</u> Test Engineer: <u>Evan ouyang</u>

AppendixA.1: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.664	2401.720	2402.384	0.5	PASS
		2440	0.644	2439.736	2440.380	0.5	PASS
		2480	0.656	2479.732	2480.388	0.5	PASS

Test Graphs



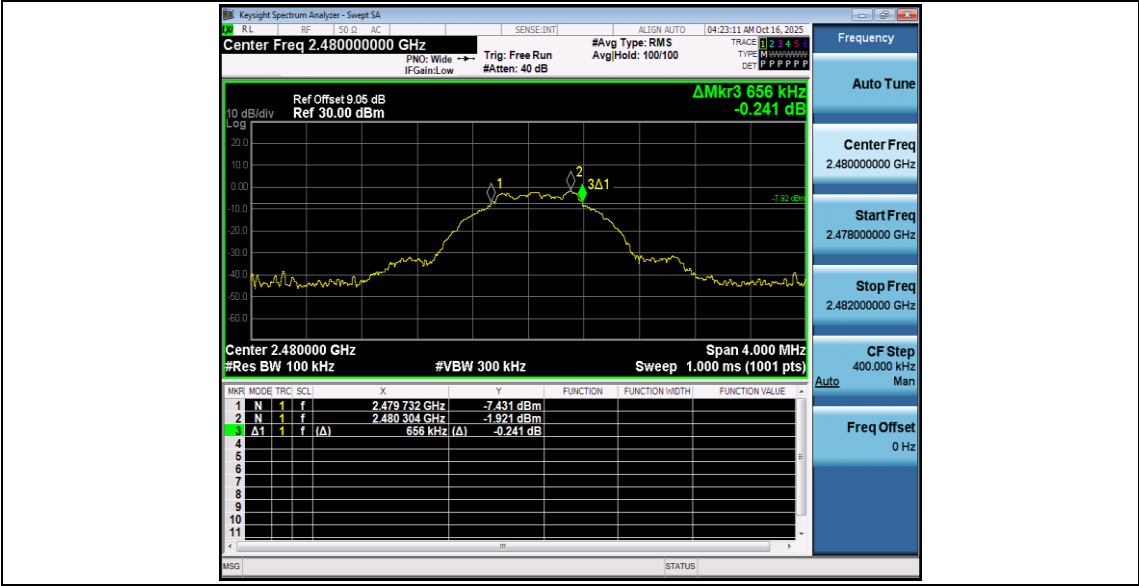
BLE_Ant1_2440

Frequency

Auto Tune

Center Freq
2.440000000 GHzStart Freq
2.438000000 GHzStop Freq
2.442000000 GHzCF Step
400.000 kHz
ManFreq Offset
0 Hz

BLE_Ant1_2480

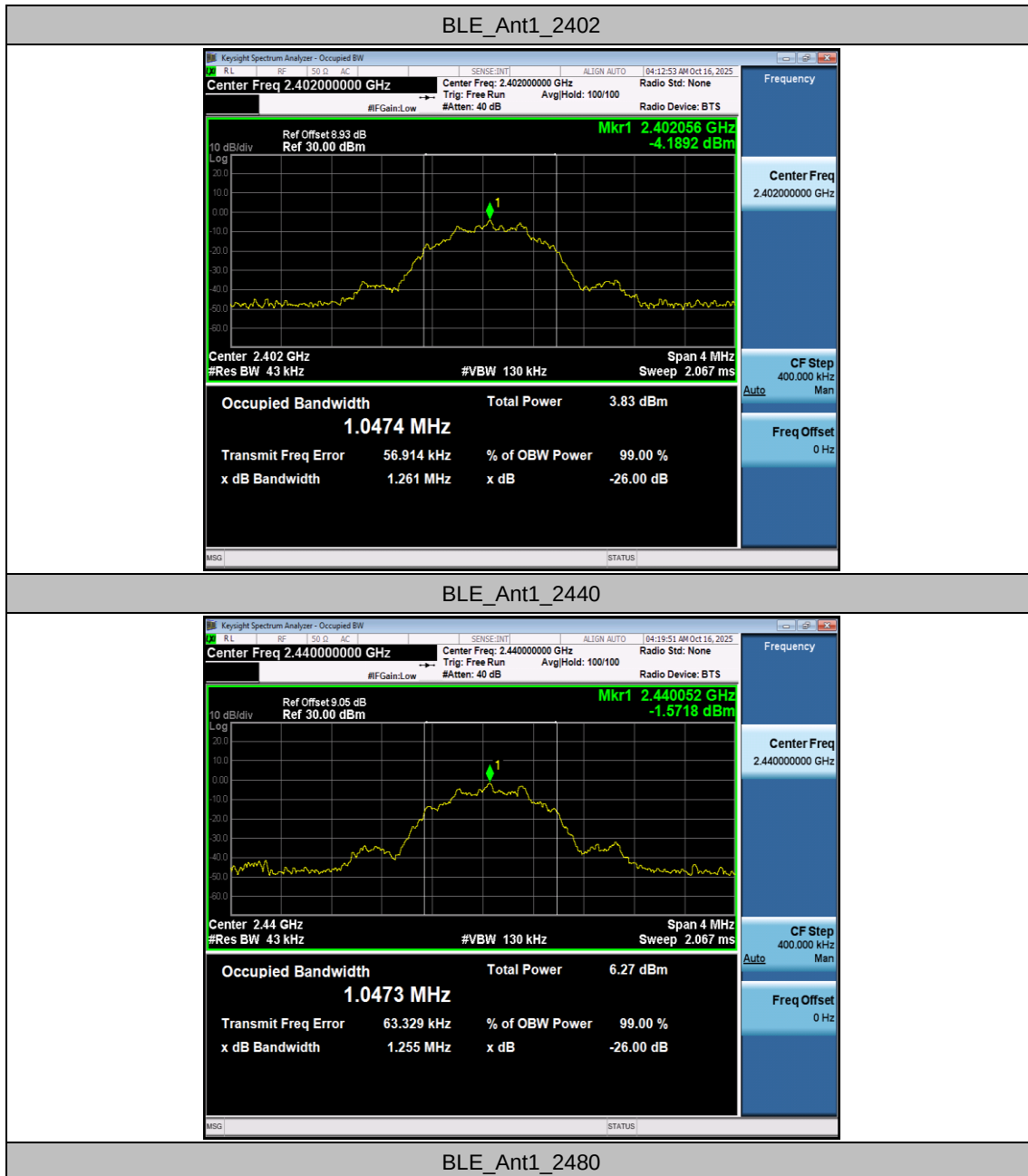


AppendixA.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0474	2401.5332	2402.5806	---	---
		2440	1.0473	2439.5397	2440.5870	---	---
		2480	1.0538	2479.5350	2480.5888	---	---

Test Graphs





AppendixA.3: Maximum conducted output power

Test Result Peak

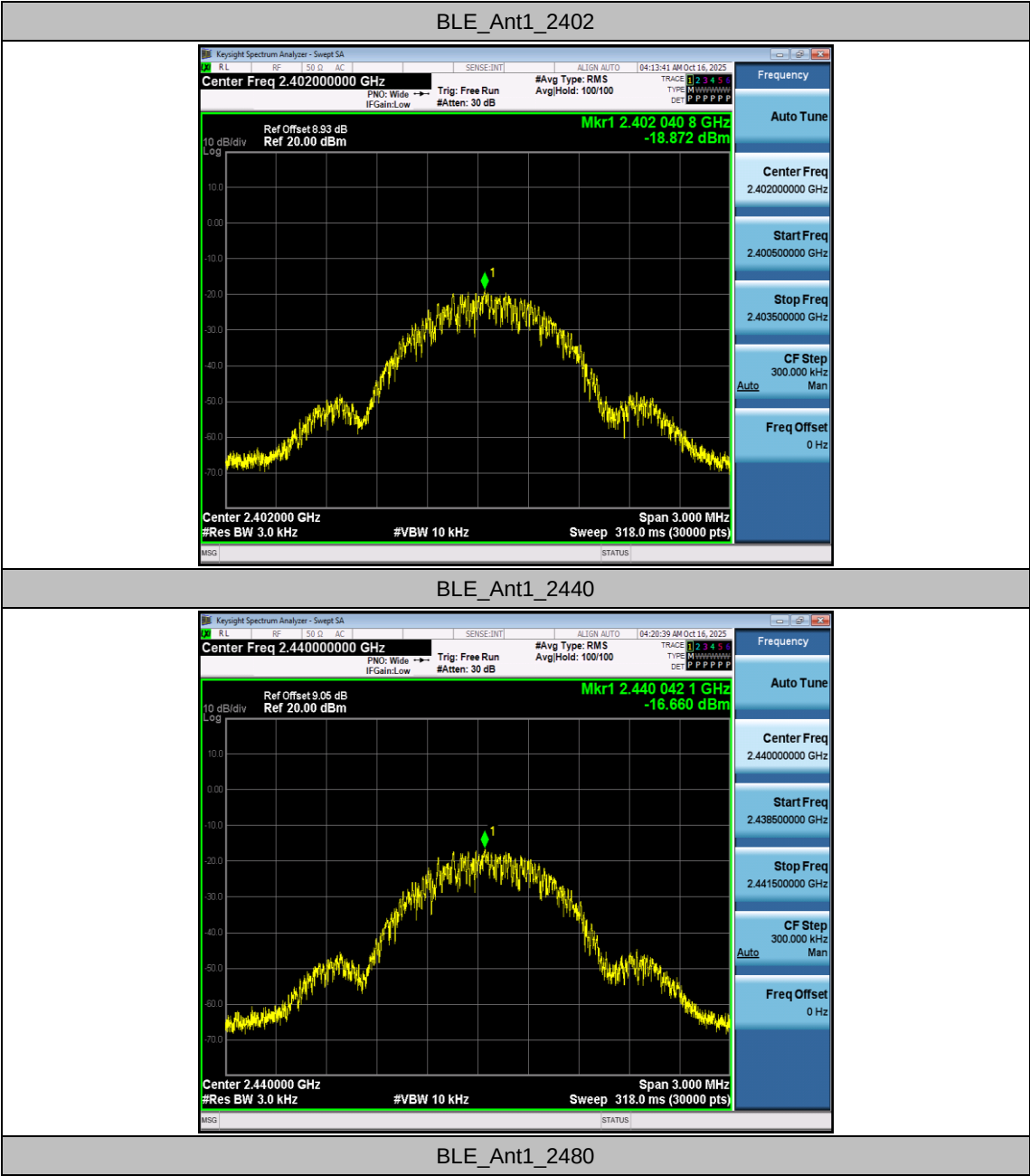
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	-1.84	≤30	PASS
		2440	0.38	≤30	PASS
		2480	-0.56	≤30	PASS

AppendixA.4: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-18.87	≤8.00	PASS
		2440	-16.66	≤8.00	PASS
		2480	-17.46	≤8.00	PASS

Test Graphs



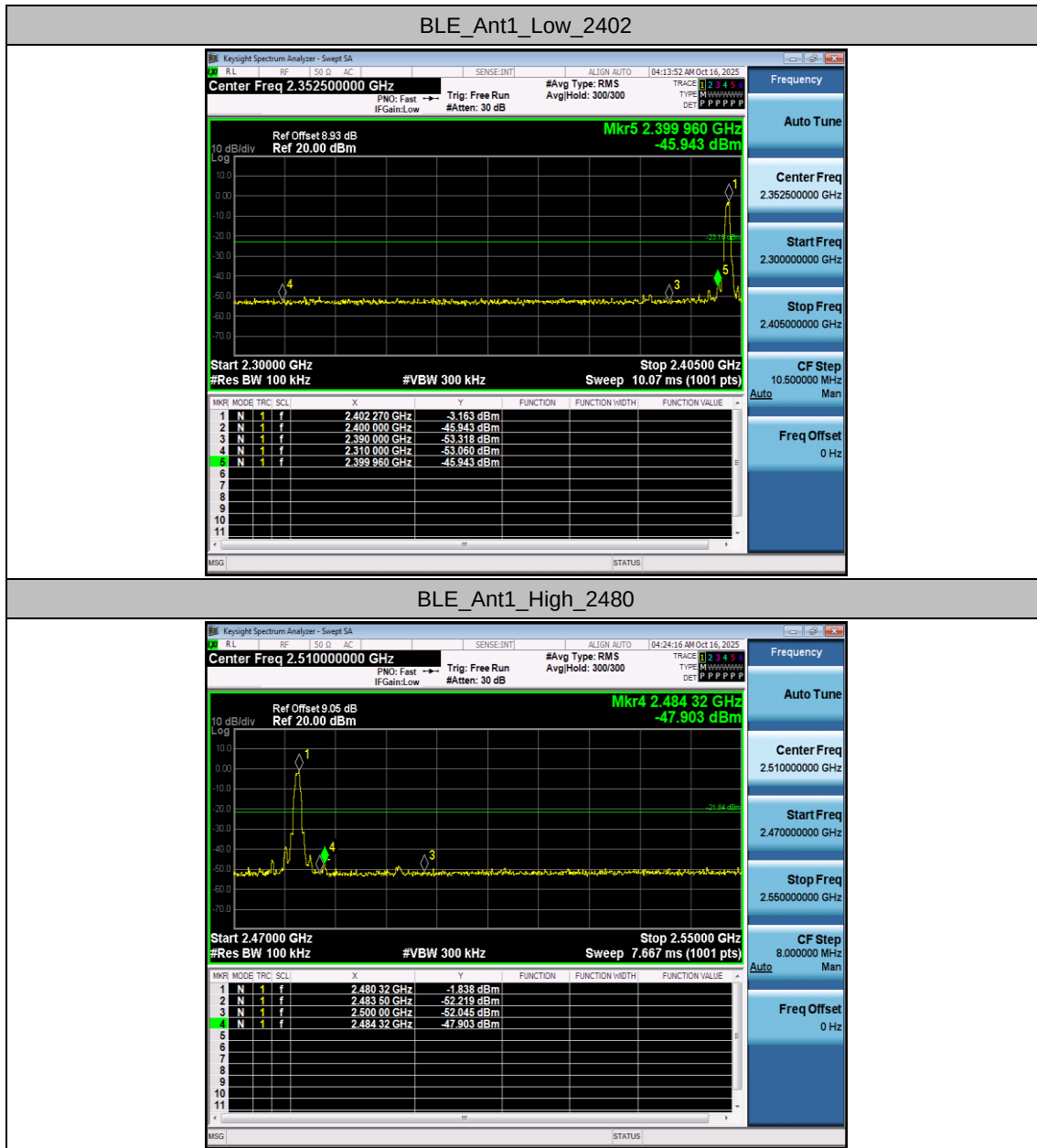


Appendix A.5: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	-3.16	-45.94	≤ -23.16	PASS
		High	2480	-1.84	-47.9	≤ -21.84	PASS

Test Graphs

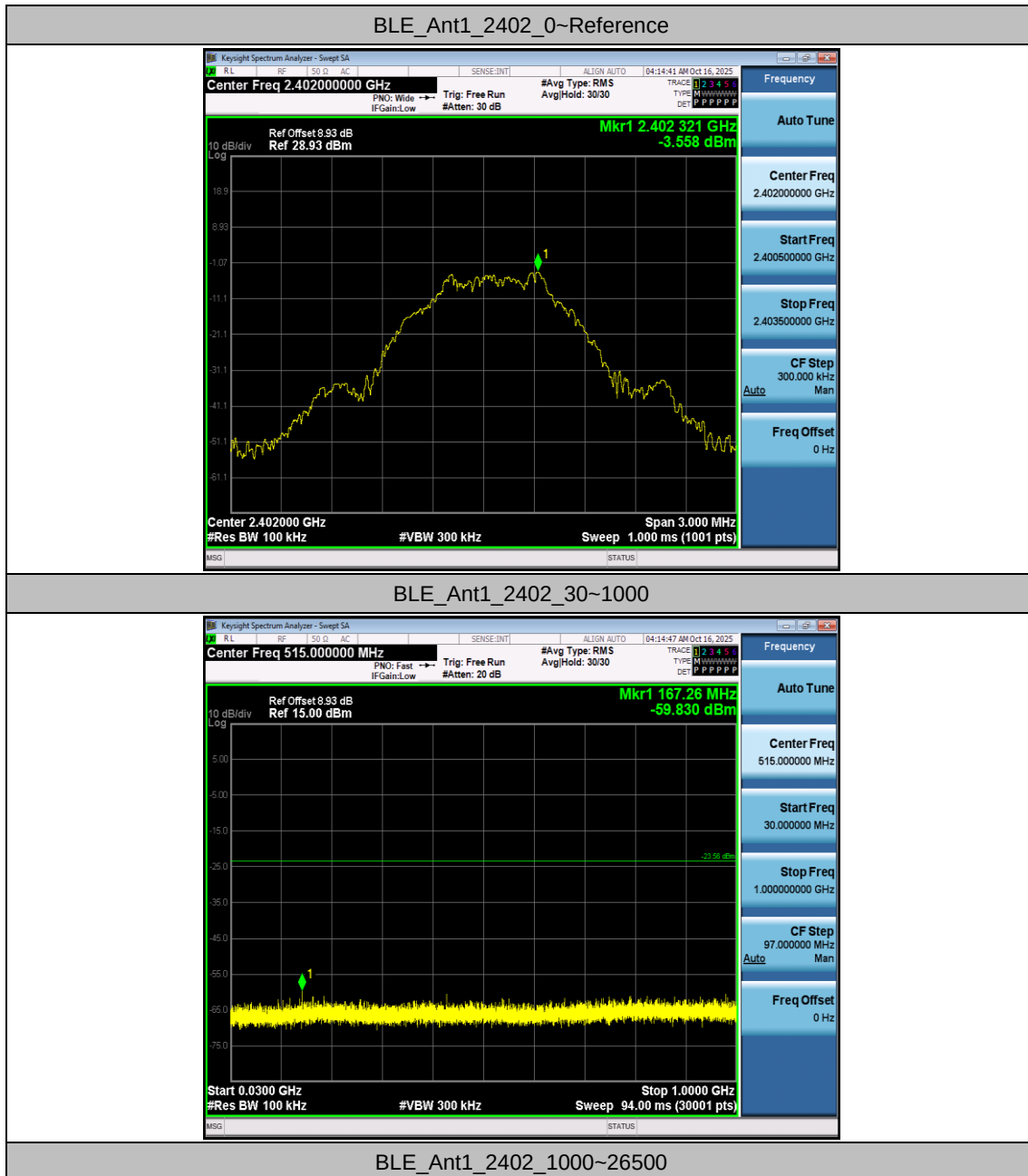


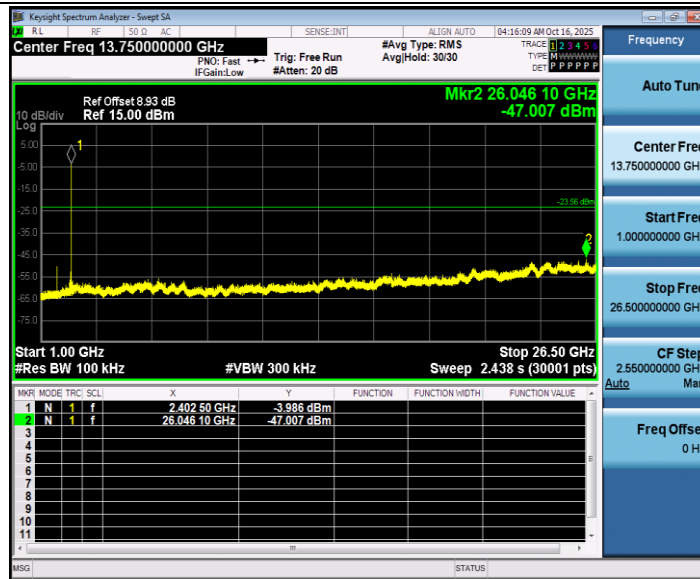
Appendix A.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	-3.56	-3.56	---	PASS
			30~1000	-3.56	-59.83	≤ -23.56	PASS
			1000~26500	-3.56	-47.01	≤ -23.56	PASS
		2440	Reference	-1.88	-1.88	---	PASS
			30~1000	-1.88	-60.39	≤ -21.88	PASS
			1000~26500	-1.88	-47.37	≤ -21.88	PASS
		2480	Reference	-1.99	-1.99	---	PASS
			30~1000	-1.99	-60.3	≤ -21.99	PASS
			1000~26500	-1.99	-47.45	≤ -21.99	PASS

Test Graphs

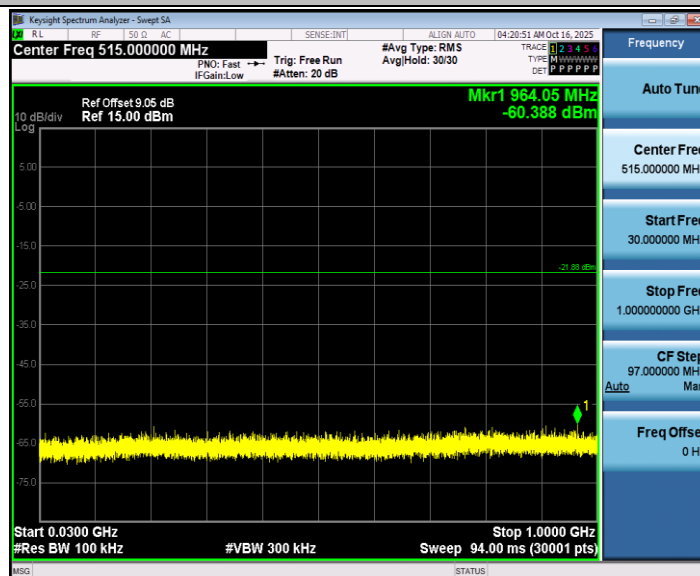




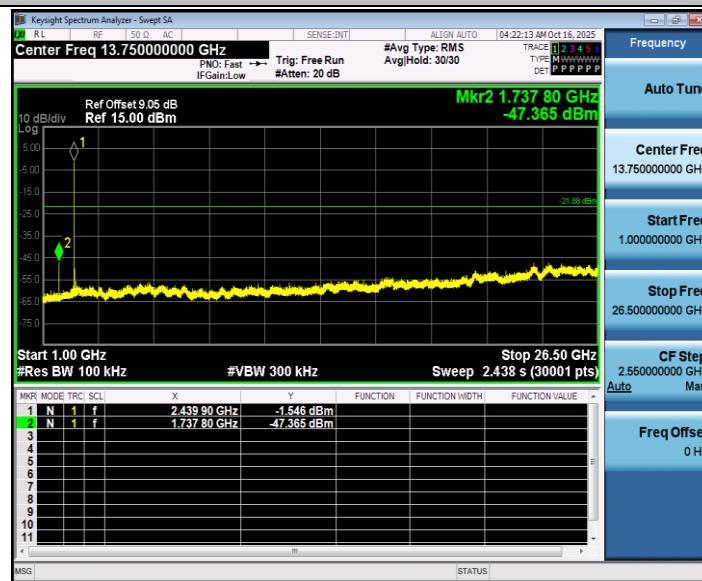
BLE_Ant1_2440_0~Reference



BLE_Ant1_2440_30~1000



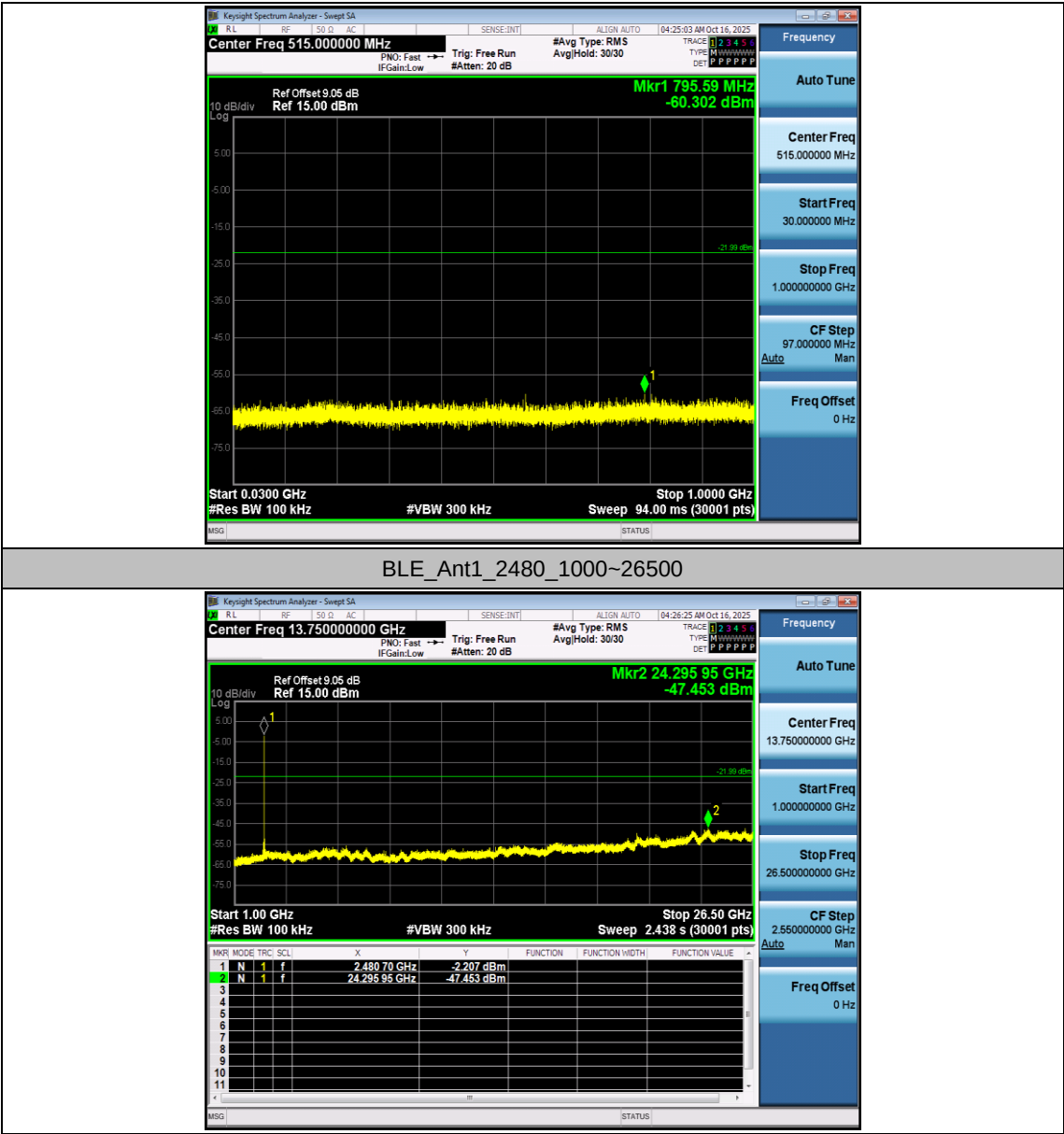
BLE_Ant1_2440_1000~26500



BLE_Ant1_2480_0~Reference



BLE_Ant1_2480_30~1000

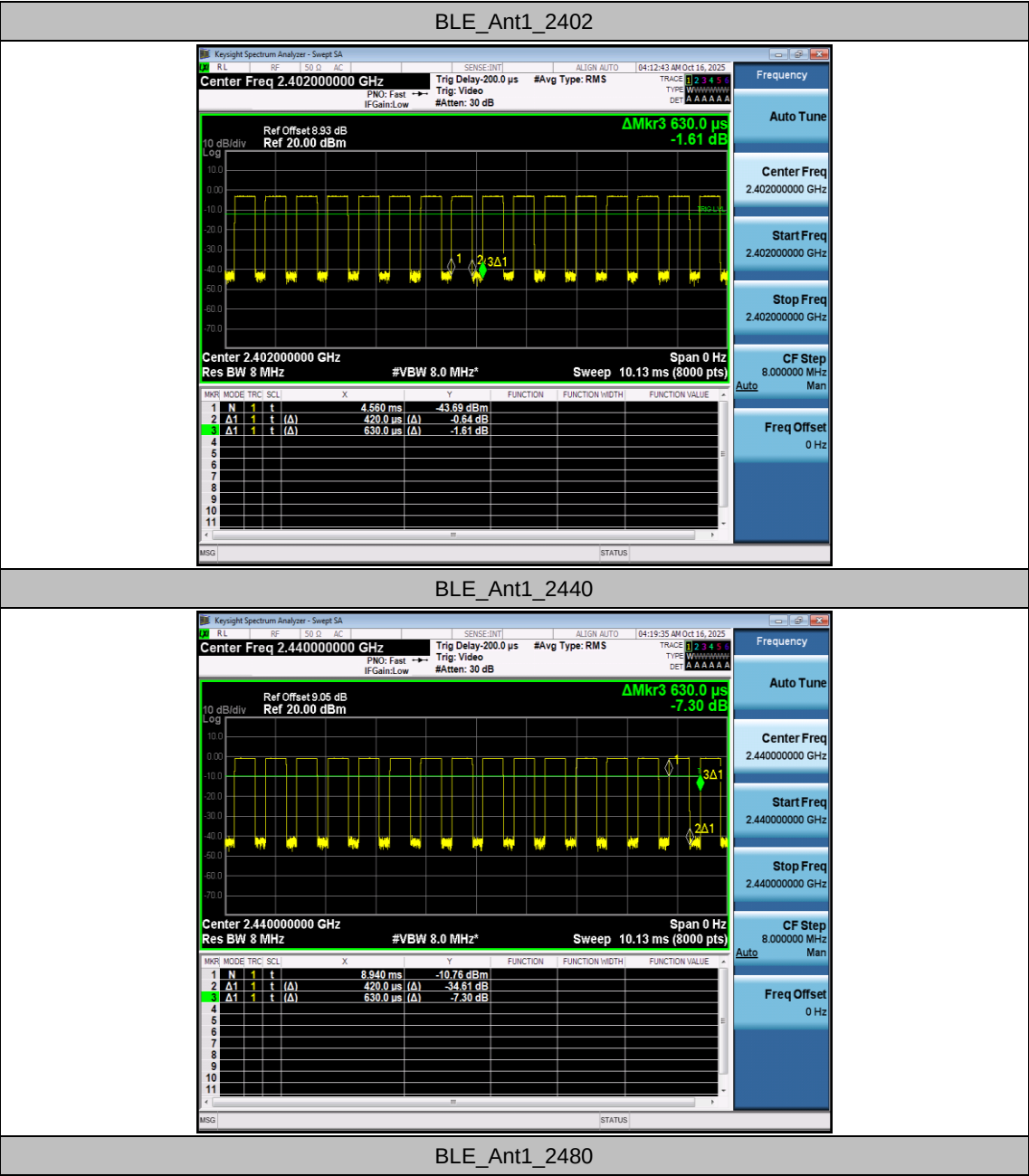


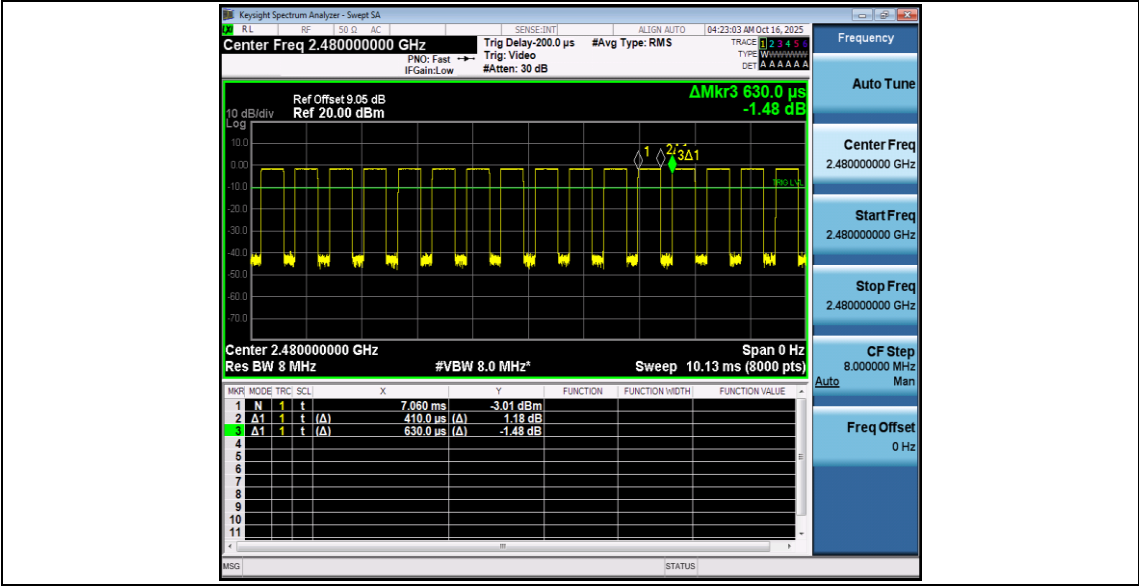
AppendixA.7: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
BLE	Ant1	2402	0.42	0.63	0.6667	66.67	1.76	2.38
		2440	0.42	0.63	0.6667	66.67	1.76	2.38
		2480	0.41	0.63	0.6508	65.08	1.87	2.44

Test Graphs





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	-49.46	≤-41.20	45.74	≤54	PASS
				AV	2385.995	-47.31	≤-41.20	47.89	≤54	PASS
				AV	2390.000	-49.13	≤-41.20	46.07	≤54	PASS
				Peak	2310.000	-42.32	≤-21.20	52.88	≤74	PASS
				Peak	2368.775	-38.94	≤-21.20	56.26	≤74	PASS
				Peak	2390.000	-43.07	≤-21.20	52.13	≤74	PASS
		High	2480	AV	2483.500	-47.73	≤-41.20	47.47	≤54	PASS
				AV	2496.160	-47.01	≤-41.20	48.19	≤54	PASS
				AV	2500.000	-48.56	≤-41.20	46.64	≤54	PASS
				Peak	2483.500	-39.36	≤-21.20	55.84	≤74	PASS
				Peak	2484.640	-37.86	≤-21.20	57.34	≤74	PASS
				Peak	2500.000	-39.54	≤-21.20	55.66	≤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

