

Case No. : <u>GTS20241227012-28-01</u>
Ambient Condition: <u>22</u> °C, <u>48</u> %RH
According Standard: ■Part15C
Test Date: <u>2025.7.28-2025.8.11</u> Test Engineer: <u>Evan ouyang</u>

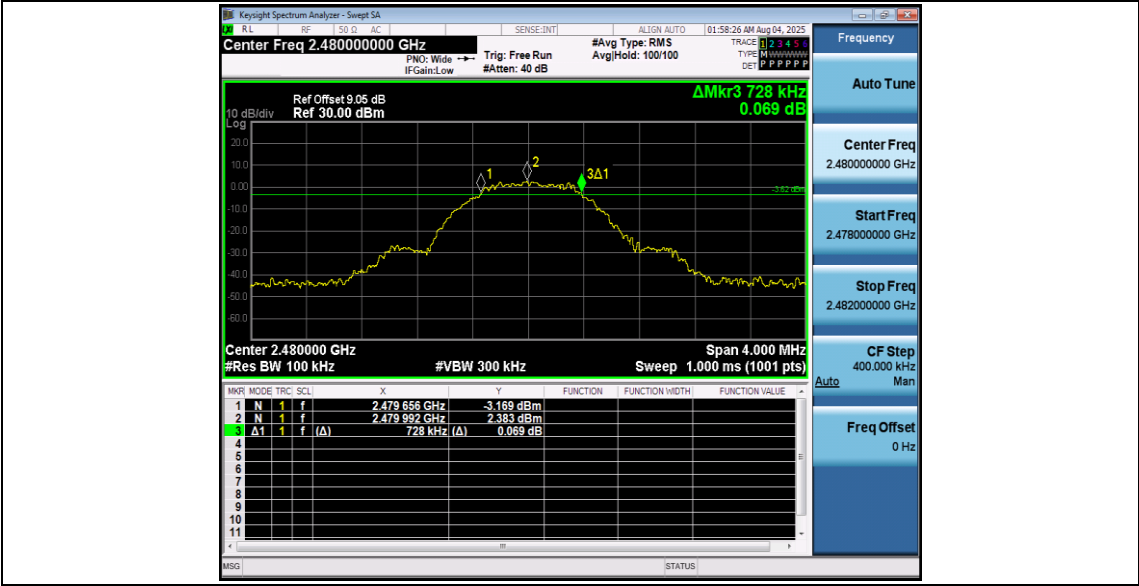
AppendixA.1: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.704	2401.648	2402.352	0.5	PASS
		2440	0.704	2439.664	2440.368	0.5	PASS
		2480	0.728	2479.656	2480.384	0.5	PASS

Test Graphs



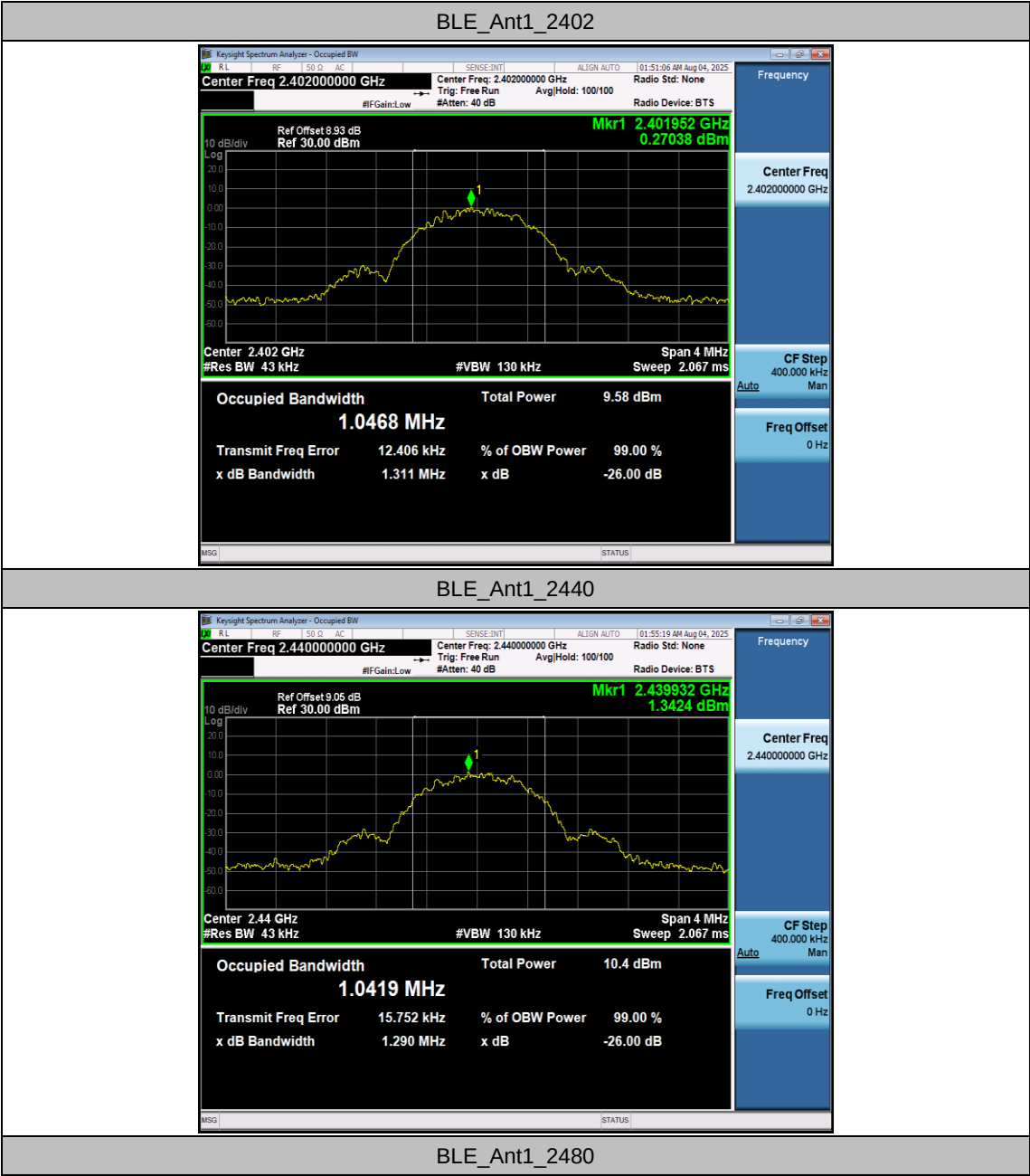


AppendixA.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0468	2401.4890	2402.5358	---	---
		2440	1.0419	2439.4948	2440.5367	---	---
		2480	1.0442	2479.4909	2480.5351	---	---

Test Graphs





AppendixA.3: Maximum conducted output power

Test Result Peak

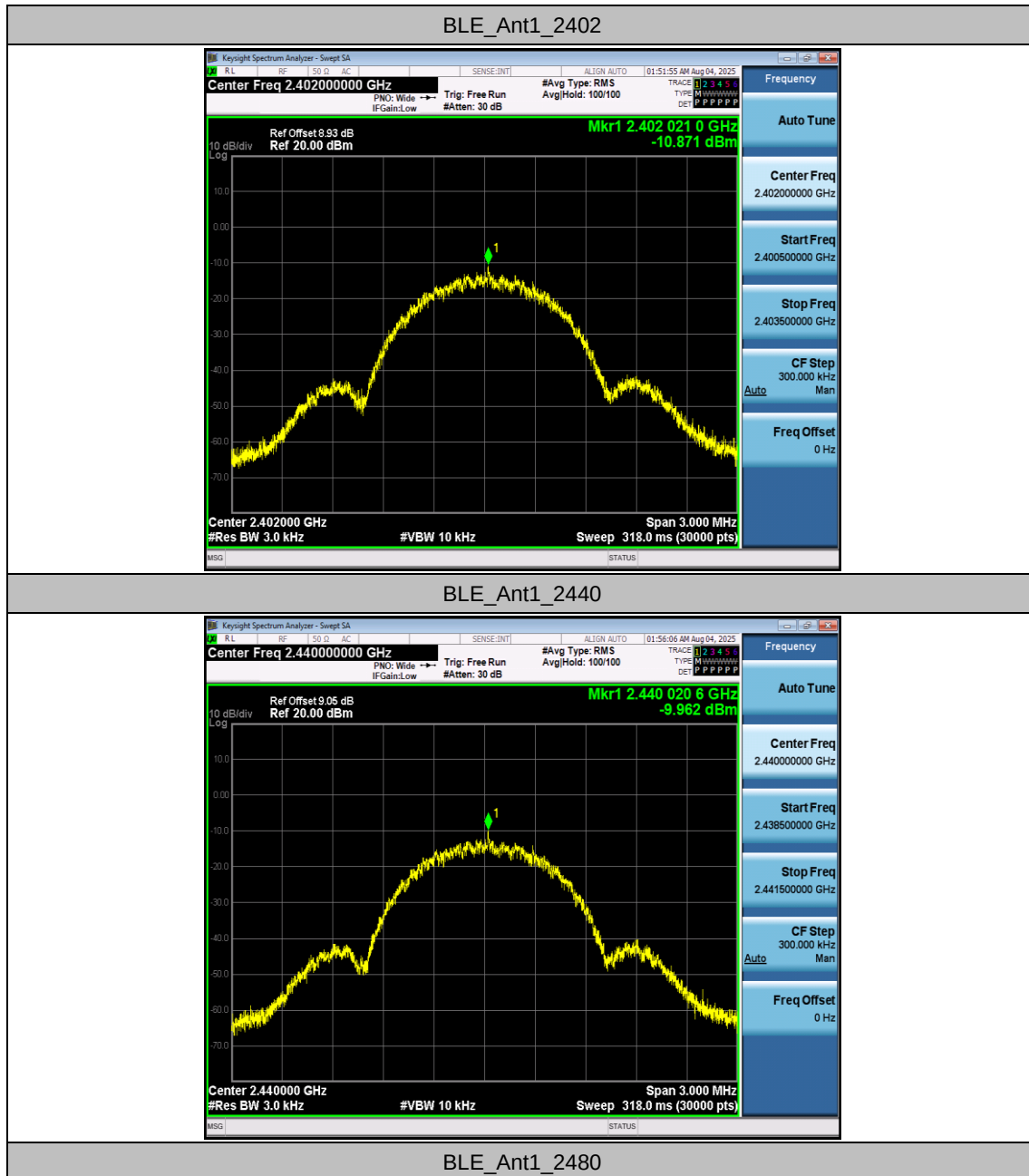
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	4.47	≤30	PASS
		2440	5.29	≤30	PASS
		2480	5.16	≤30	PASS

AppendixA.4: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-10.87	≤8.00	PASS
		2440	-9.96	≤8.00	PASS
		2480	-10.28	≤8.00	PASS

Test Graphs



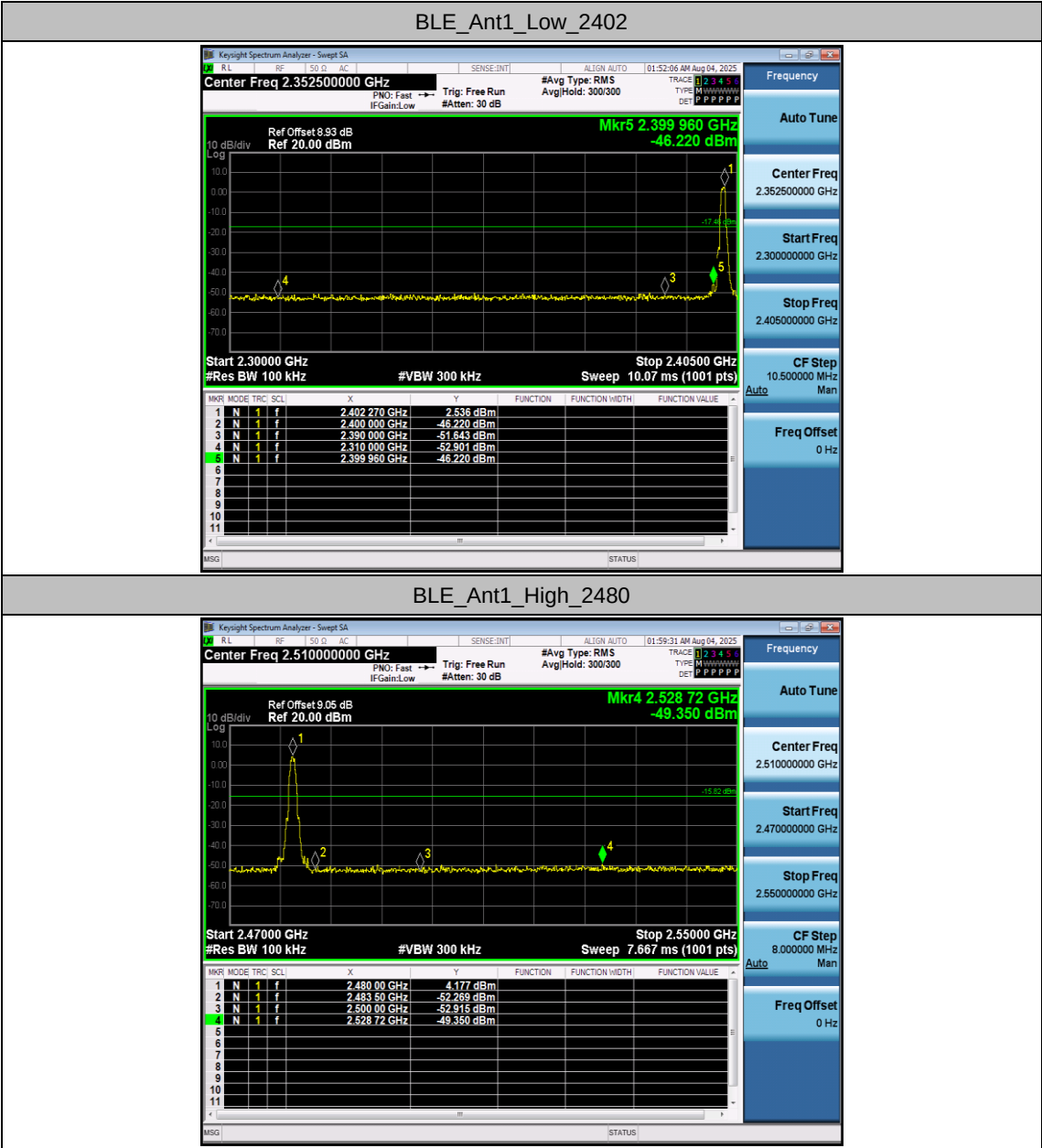


Appendix A.5: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	2.54	-46.22	≤ -17.46	PASS
		High	2480	4.18	-49.35	≤ -15.82	PASS

Test Graphs

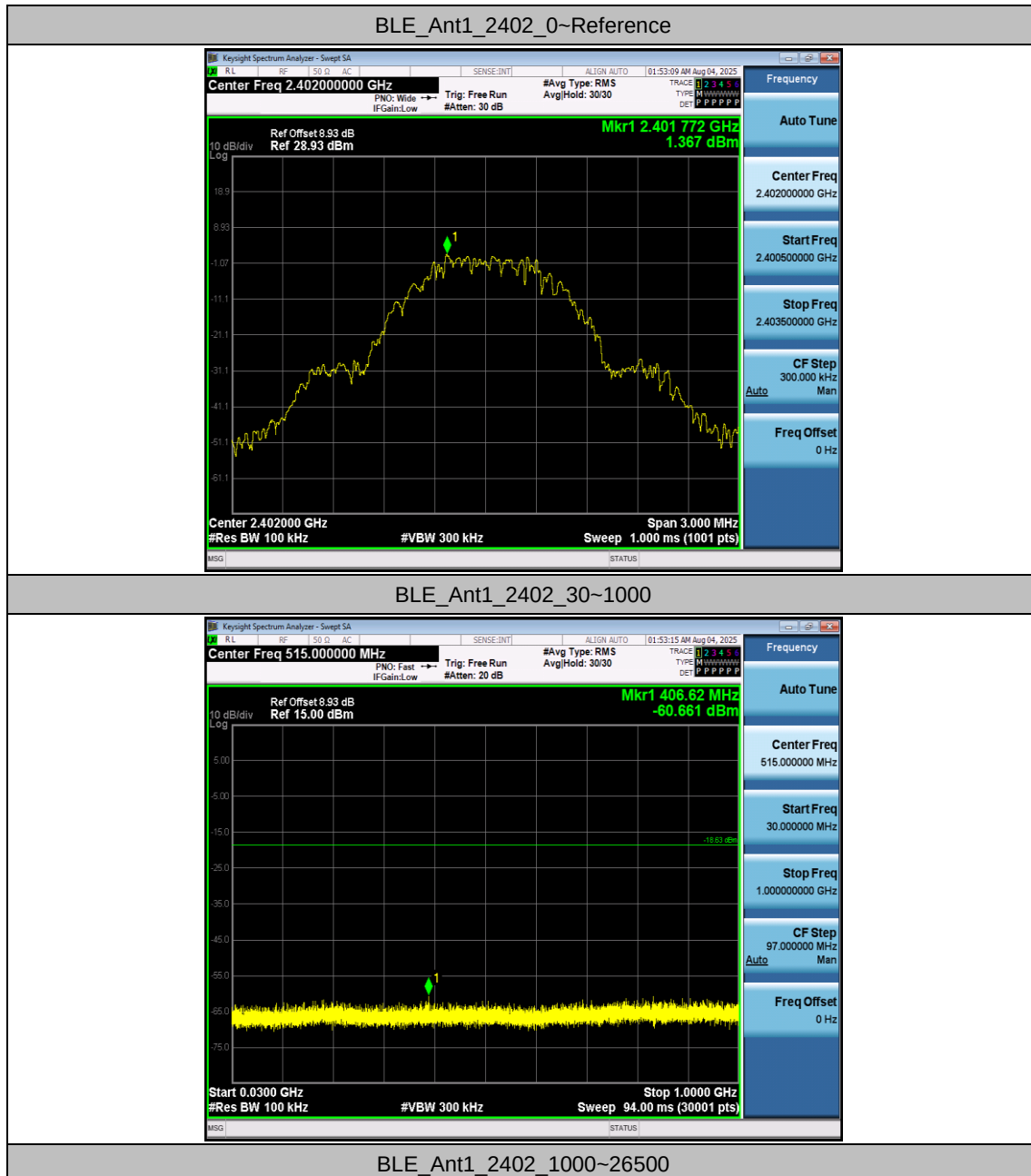


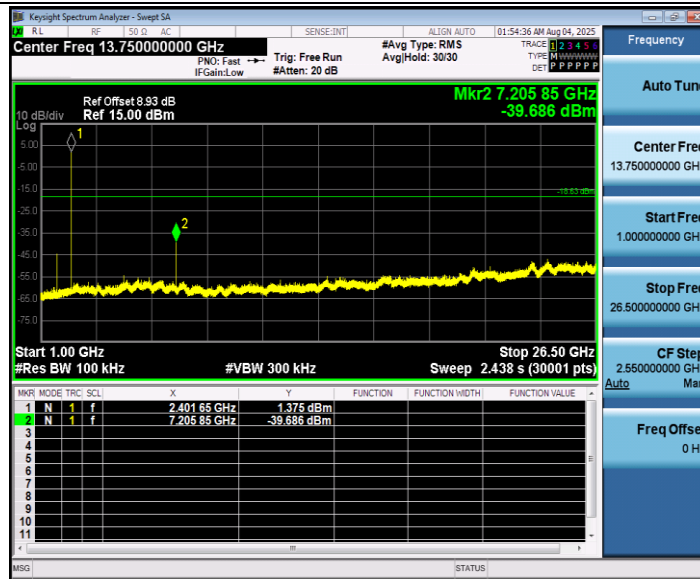
Appendix A.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	1.37	1.37	---	PASS
			30~1000	1.37	-60.66	≤ -18.63	PASS
			1000~26500	1.37	-39.69	≤ -18.63	PASS
		2440	Reference	3.60	3.60	---	PASS
			30~1000	3.60	-60.91	≤ -16.4	PASS
			1000~26500	3.60	-37.93	≤ -16.4	PASS
		2480	Reference	2.42	2.42	---	PASS
			30~1000	2.42	-60.21	≤ -17.58	PASS
			1000~26500	2.42	-45.13	≤ -17.58	PASS

Test Graphs

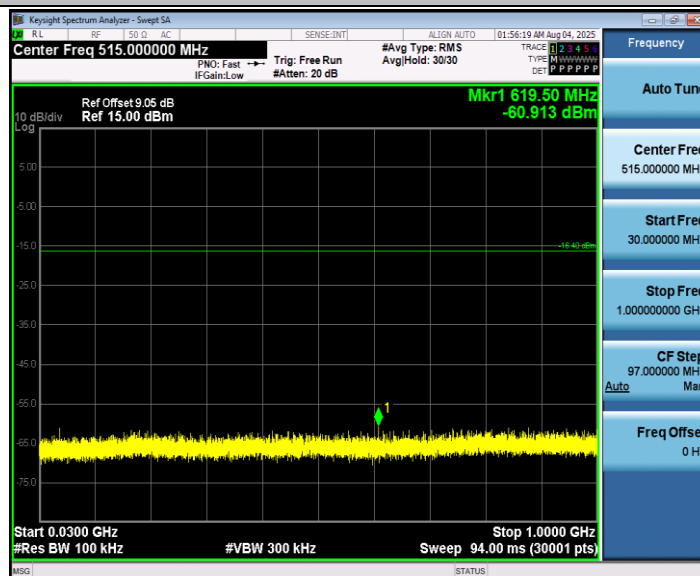


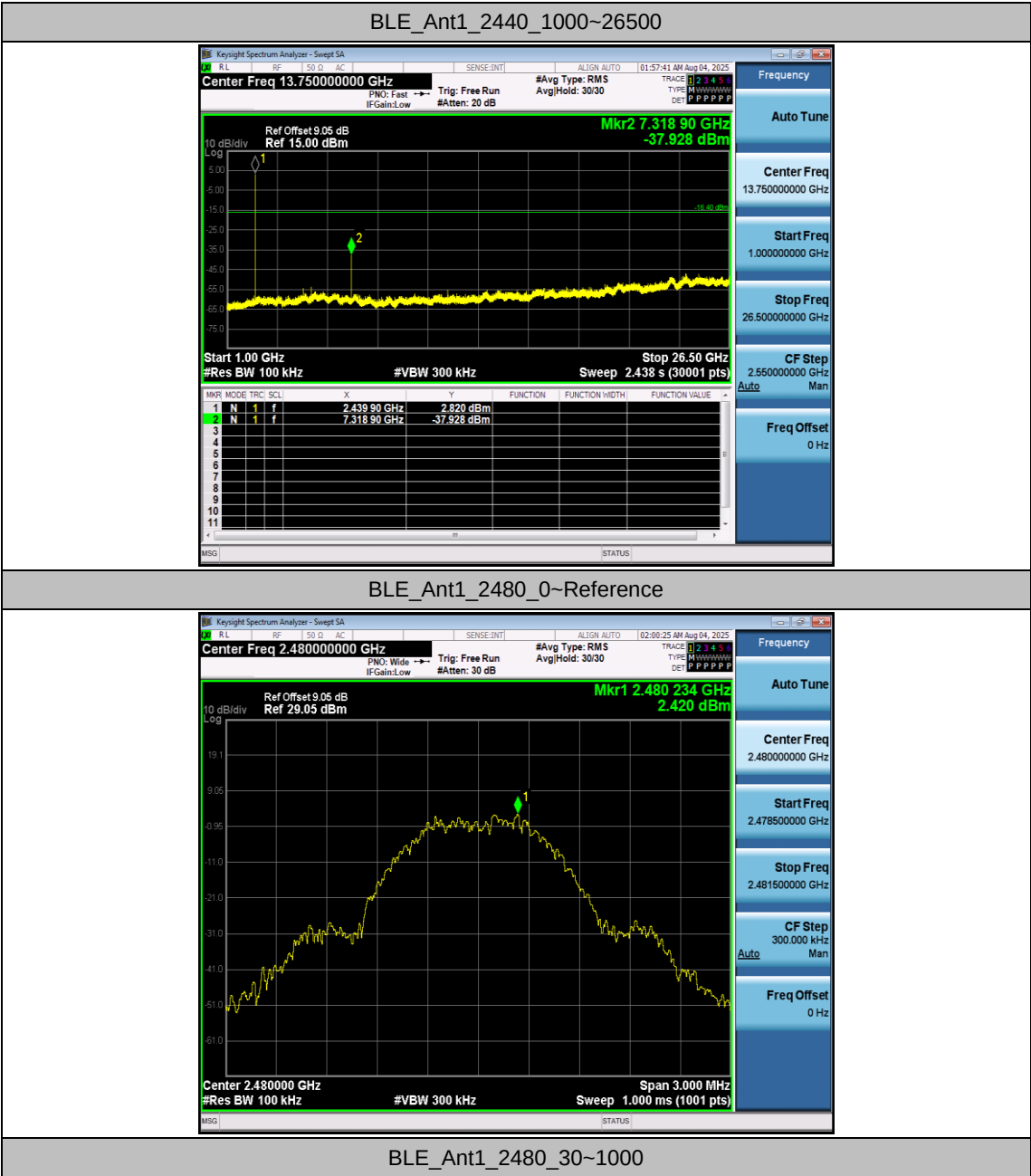


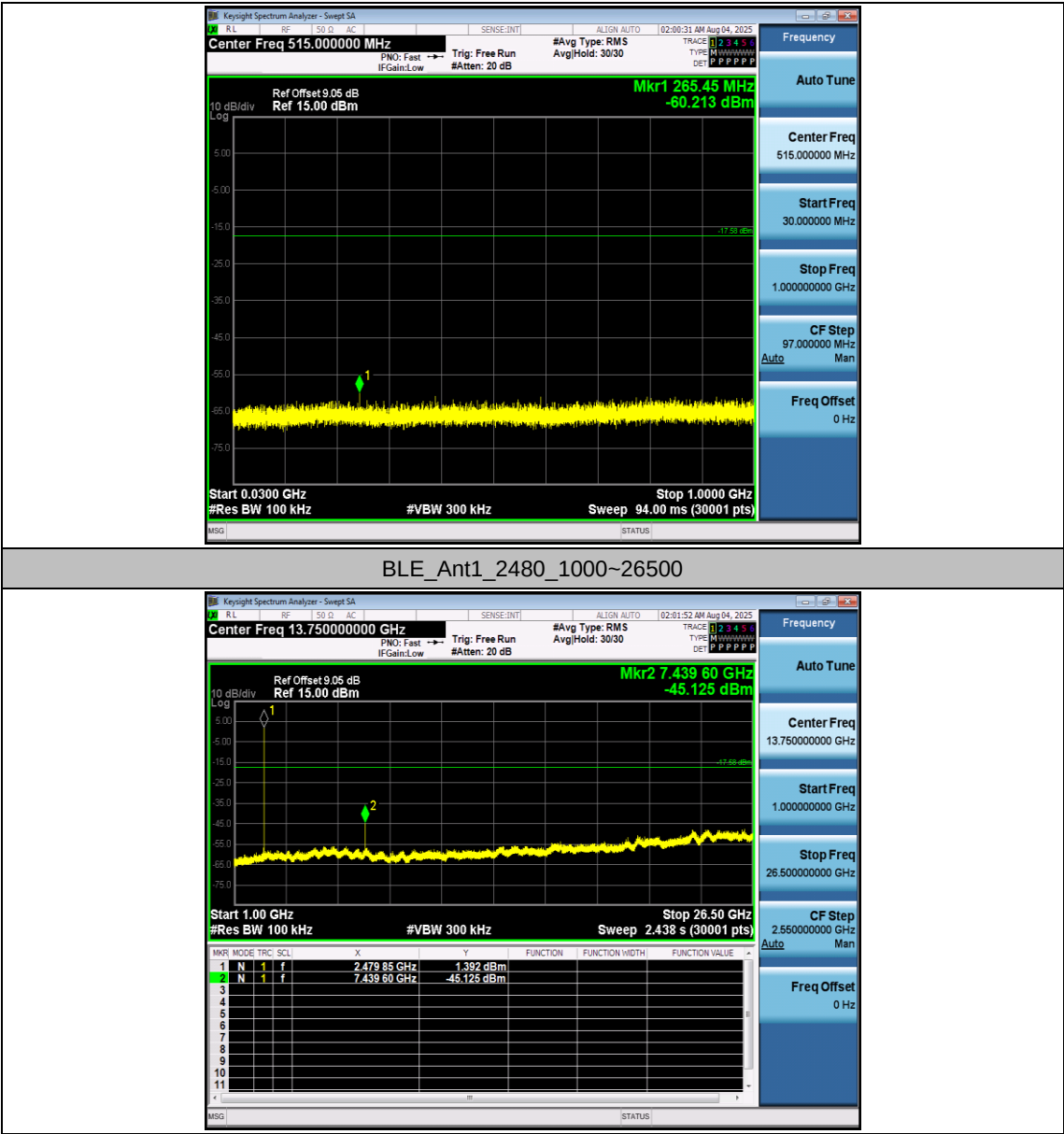
BLE_Ant1_2440_0~Reference



BLE_Ant1_2440_30~1000





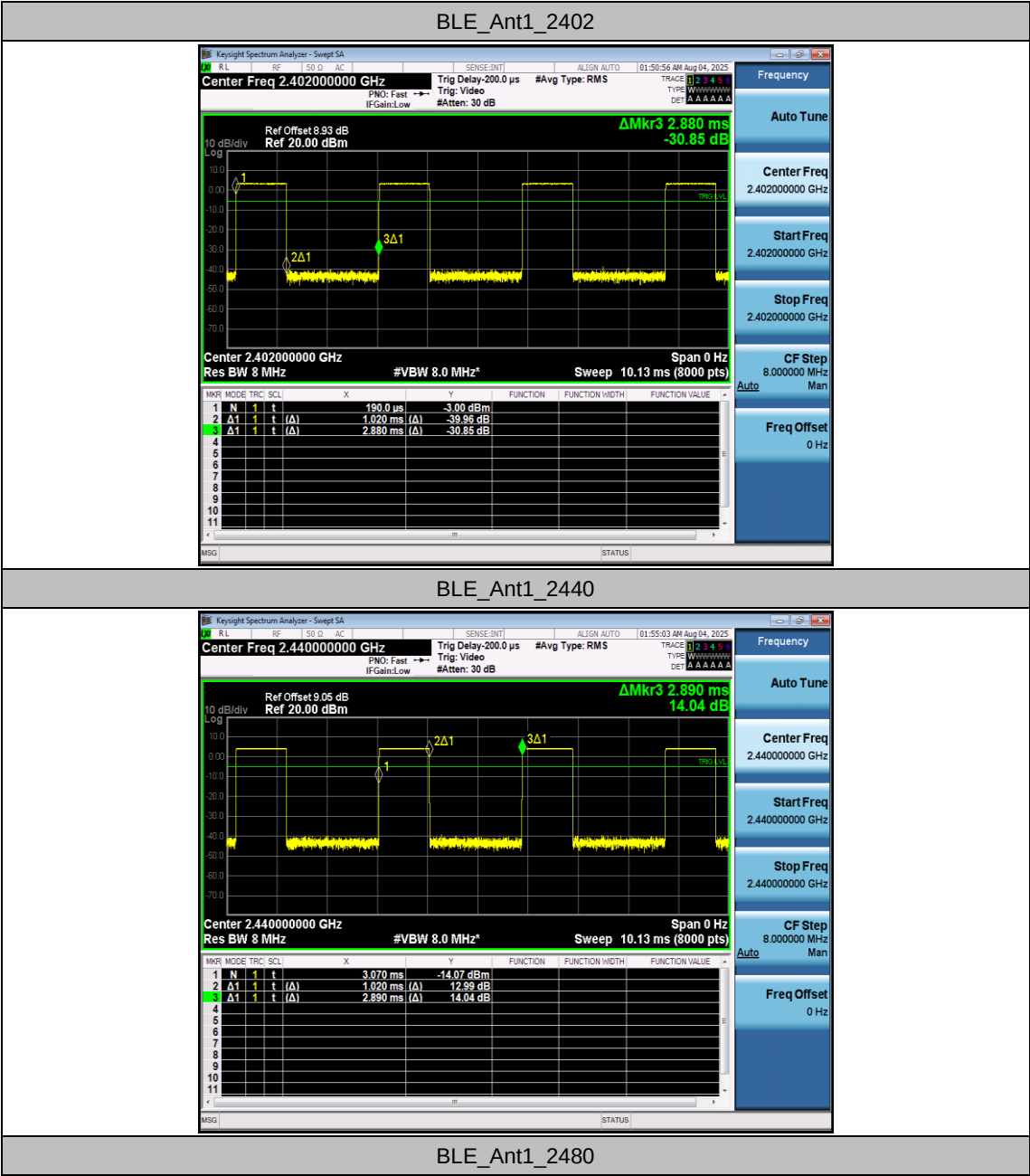


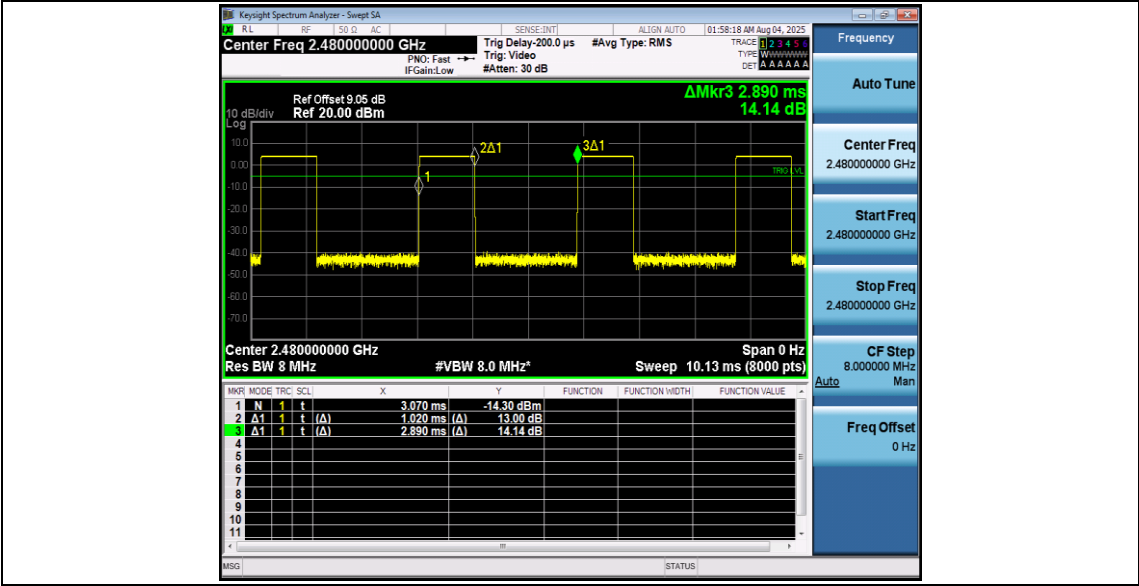
AppendixA.7: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
BLE	Ant1	2402	1.02	2.88	0.3542	35.42	4.51	0.98
		2440	1.02	2.89	0.3529	35.29	4.52	0.98
		2480	1.02	2.89	0.3529	35.29	4.52	0.98

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	-49.3	≤-41.20	45.90	≤54	PASS
				AV	2387.360	-48.86	≤-41.20	46.34	≤54	PASS
				AV	2390.000	-48.92	≤-41.20	46.28	≤54	PASS
				Peak	2310.000	-41.61	≤-21.20	53.59	≤74	PASS
				Peak	2384.315	-38.78	≤-21.20	56.42	≤74	PASS
				Peak	2390.000	-41.58	≤-21.20	53.62	≤74	PASS
		High	2480	AV	2483.500	-47.81	≤-41.20	47.39	≤54	PASS
				AV	2483.520	-47.81	≤-41.20	47.39	≤54	PASS
				AV	2500.000	-48.6	≤-41.20	46.60	≤54	PASS
				Peak	2483.500	-42.2	≤-21.20	53.00	≤74	PASS
				Peak	2492.080	-38.83	≤-21.20	56.37	≤74	PASS
				Peak	2500.000	-42.08	≤-21.20	53.12	≤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

