

Case No. : <u>GTS20250616013-1-01</u>	
Ambient Condition: <u>23</u> °C, <u>53</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.6.23</u>	Test Engineer: <u>Evan ouyang</u>

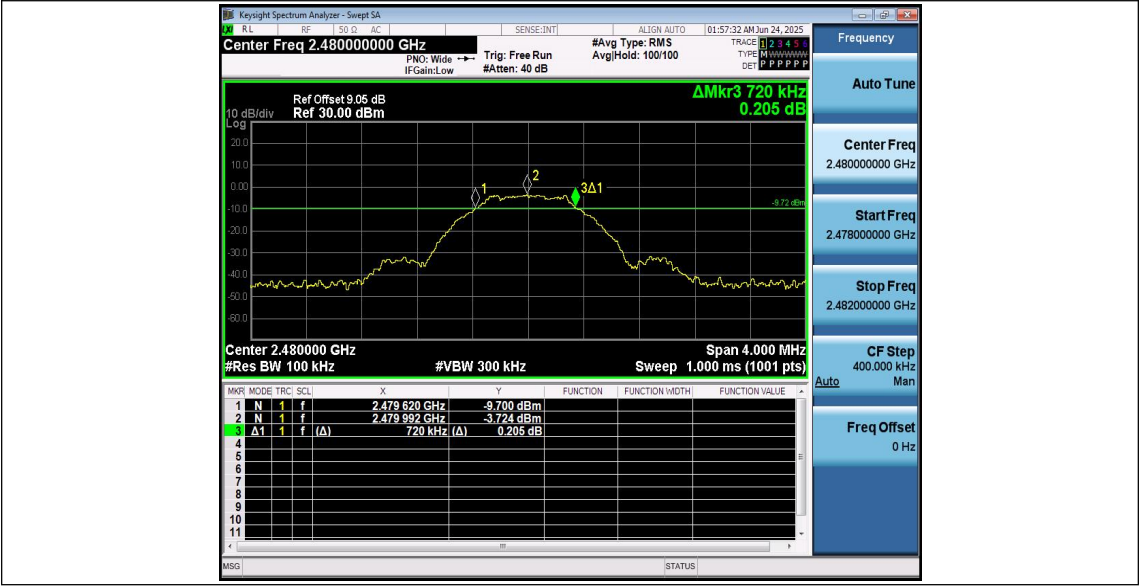
Appendix A.1: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_BT5.0	Ant1	2402	0.708	2401.632	2402.340	0.5	PASS
		2440	0.672	2439.656	2440.328	0.5	PASS
		2480	0.720	2479.620	2480.340	0.5	PASS

Test Graphs



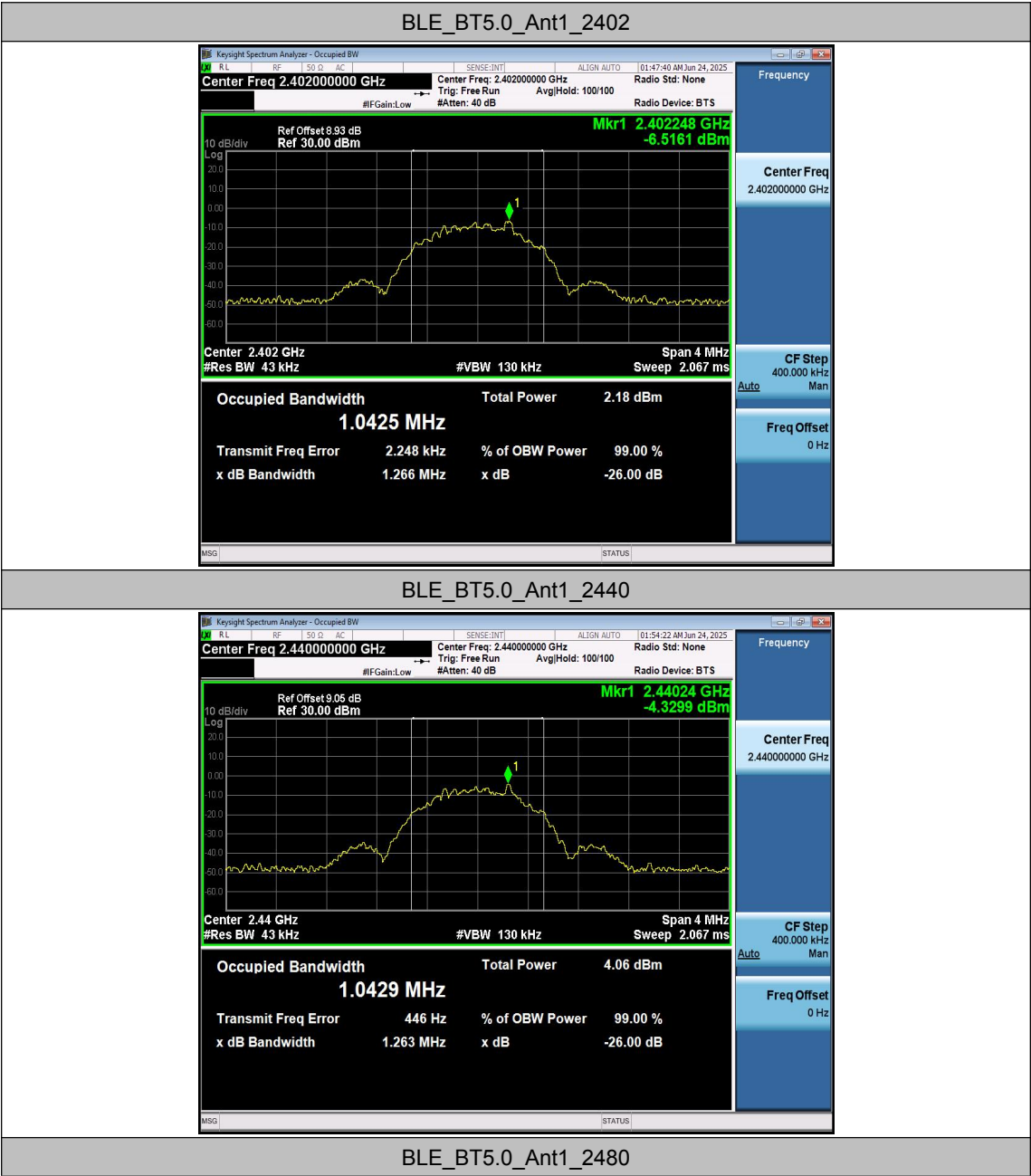


Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_BT5.0	Ant1	2402	1.0425	2401.4810	2402.5235	---	---
		2440	1.0429	2439.4790	2440.5219	---	---
		2480	1.0321	2479.4816	2480.5137	---	---

Test Graphs





Appendix A.3: Maximum conducted output power

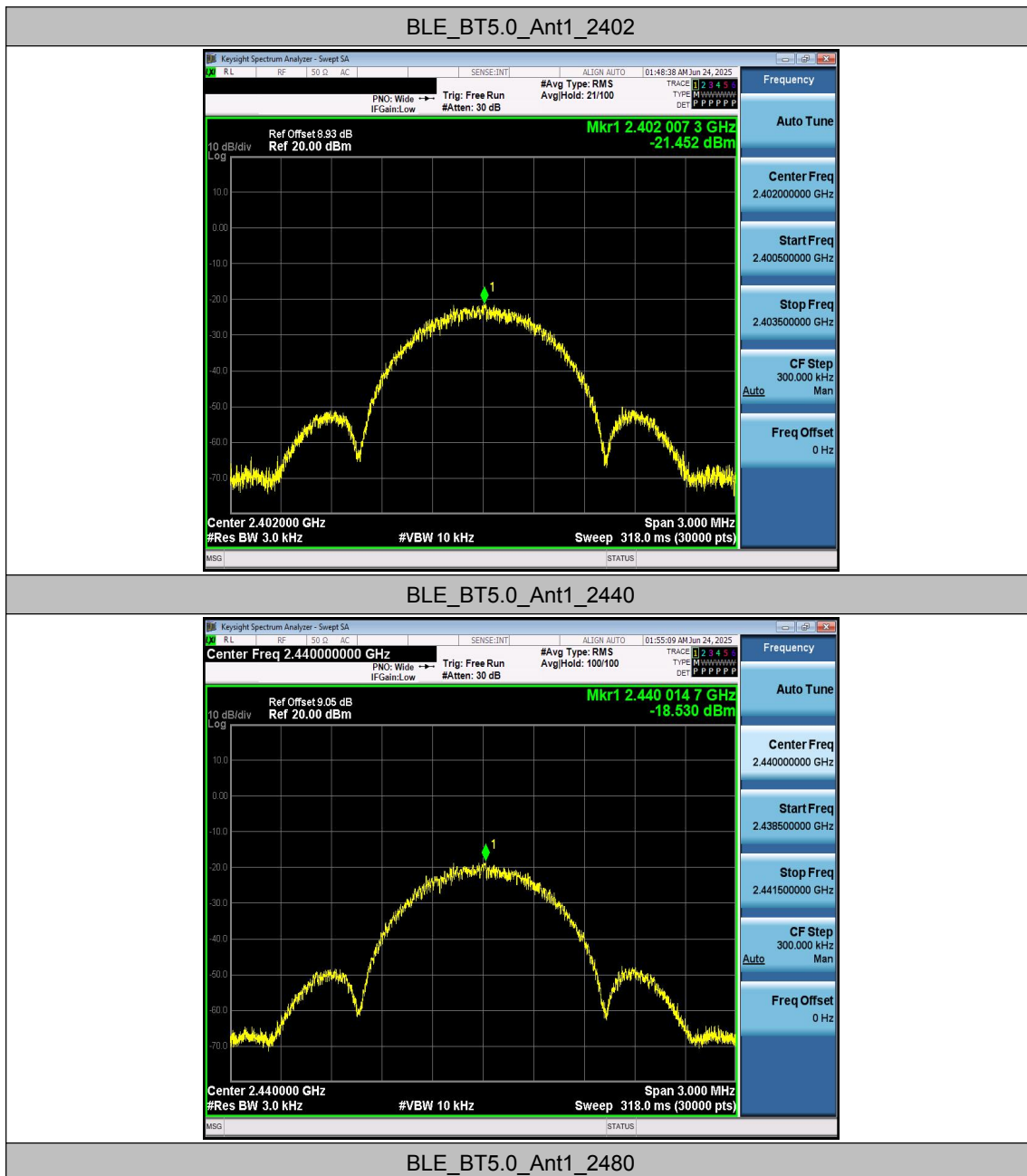
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_BT5.0	Ant1	2402	-4.40	≤30	PASS
		2440	-2.47	≤30	PASS
		2480	-2.03	≤30	PASS

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	-21.45	≤8.00	PASS
		2440	-18.53	≤8.00	PASS
		2480	-18.48	≤8.00	PASS

Test Graphs



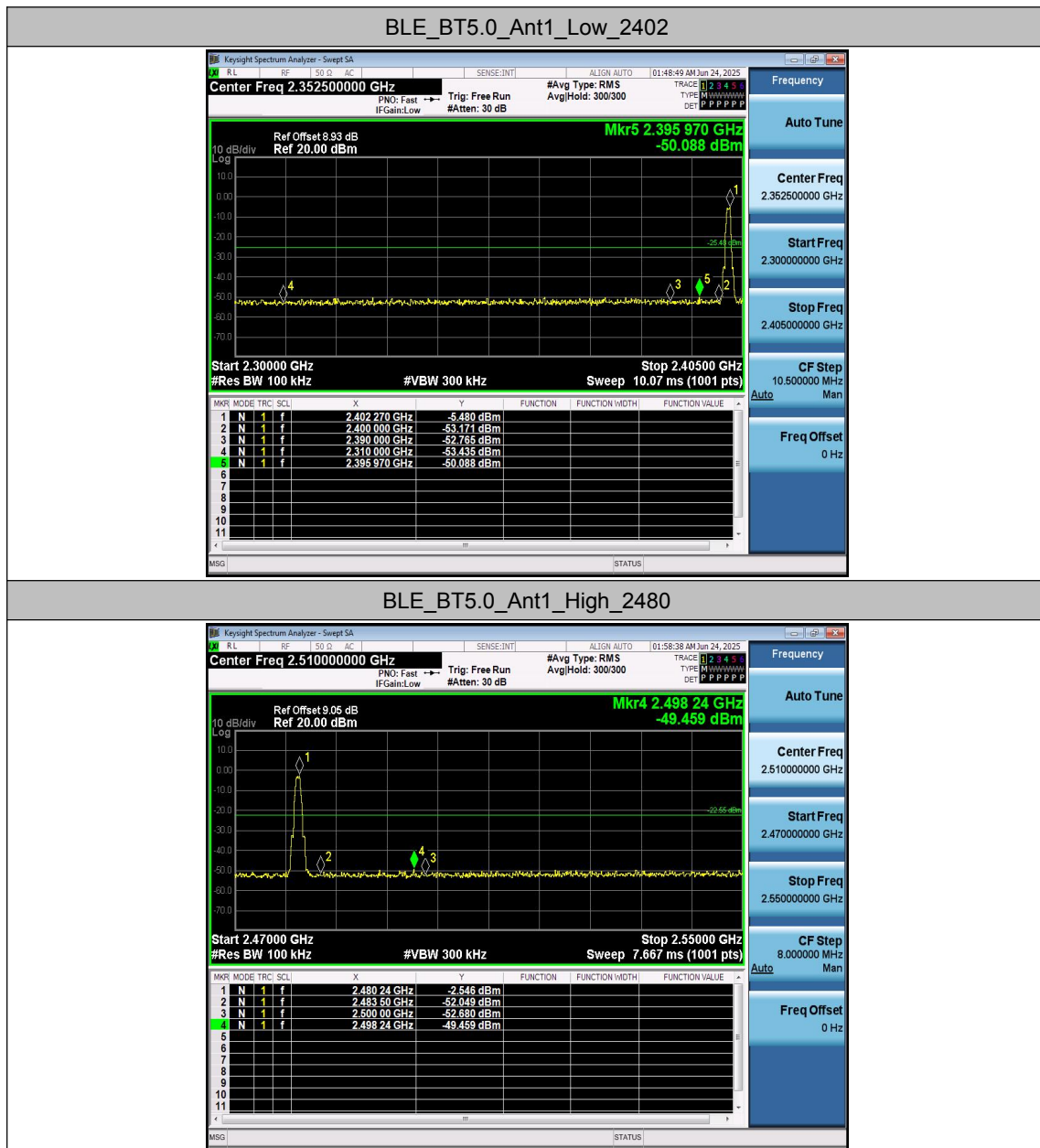


Appendix A.5: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT5.0	Ant1	Low	2402	-5.48	-50.09	≤-25.48	PASS
		High	2480	-2.55	-49.46	≤-22.55	PASS

Test Graphs



Appendix A.6: Conducted Spurious Emission

Test Result

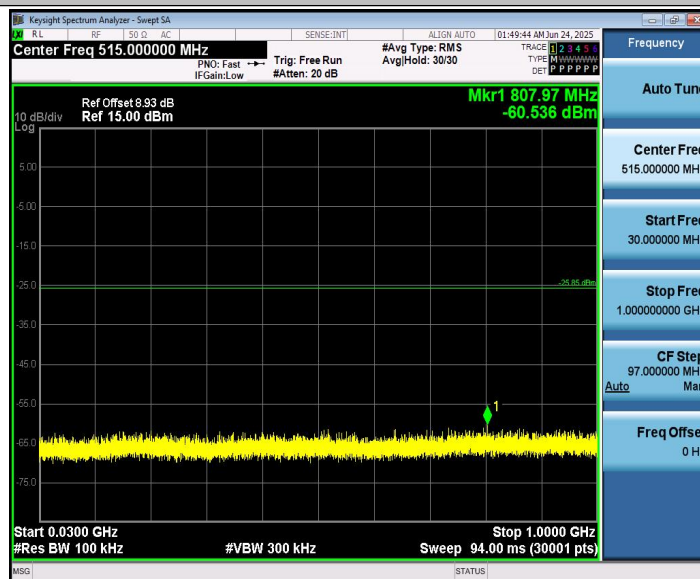
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT5.0	Ant1	2402	Reference	-5.85	-5.85	---	PASS
			30~1000	-5.85	-60.54	≤ -25.85	PASS
			1000~26500	-5.85	-47.98	≤ -25.85	PASS
		2440	Reference	-2.56	-2.56	---	PASS
			30~1000	-2.56	-60.92	≤ -22.56	PASS
			1000~26500	-2.56	-47.78	≤ -22.56	PASS
		2480	Reference	-3.85	-3.85	---	PASS
			30~1000	-3.85	-60.57	≤ -23.85	PASS
			1000~26500	-3.85	-46.65	≤ -23.85	PASS

Test Graphs

BLE_BT5.0_Ant1_2402_0~Reference



BLE_BT5.0_Ant1_2402_30~1000



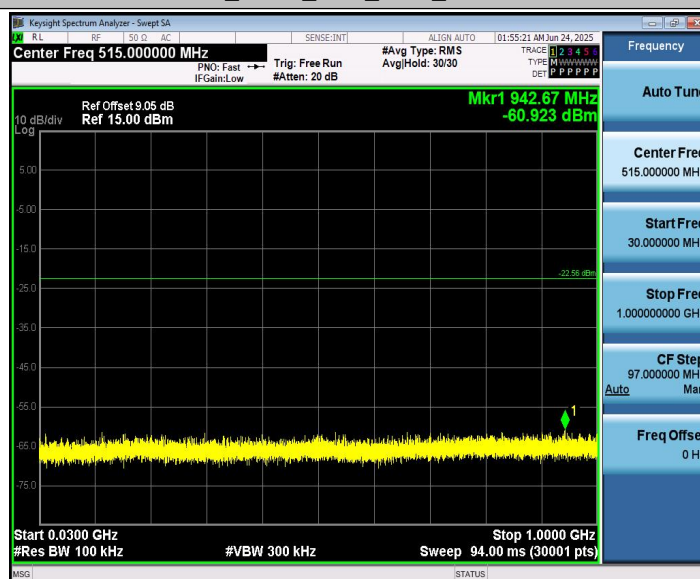
BLE_BT5.0_Ant1_2402_1000~26500

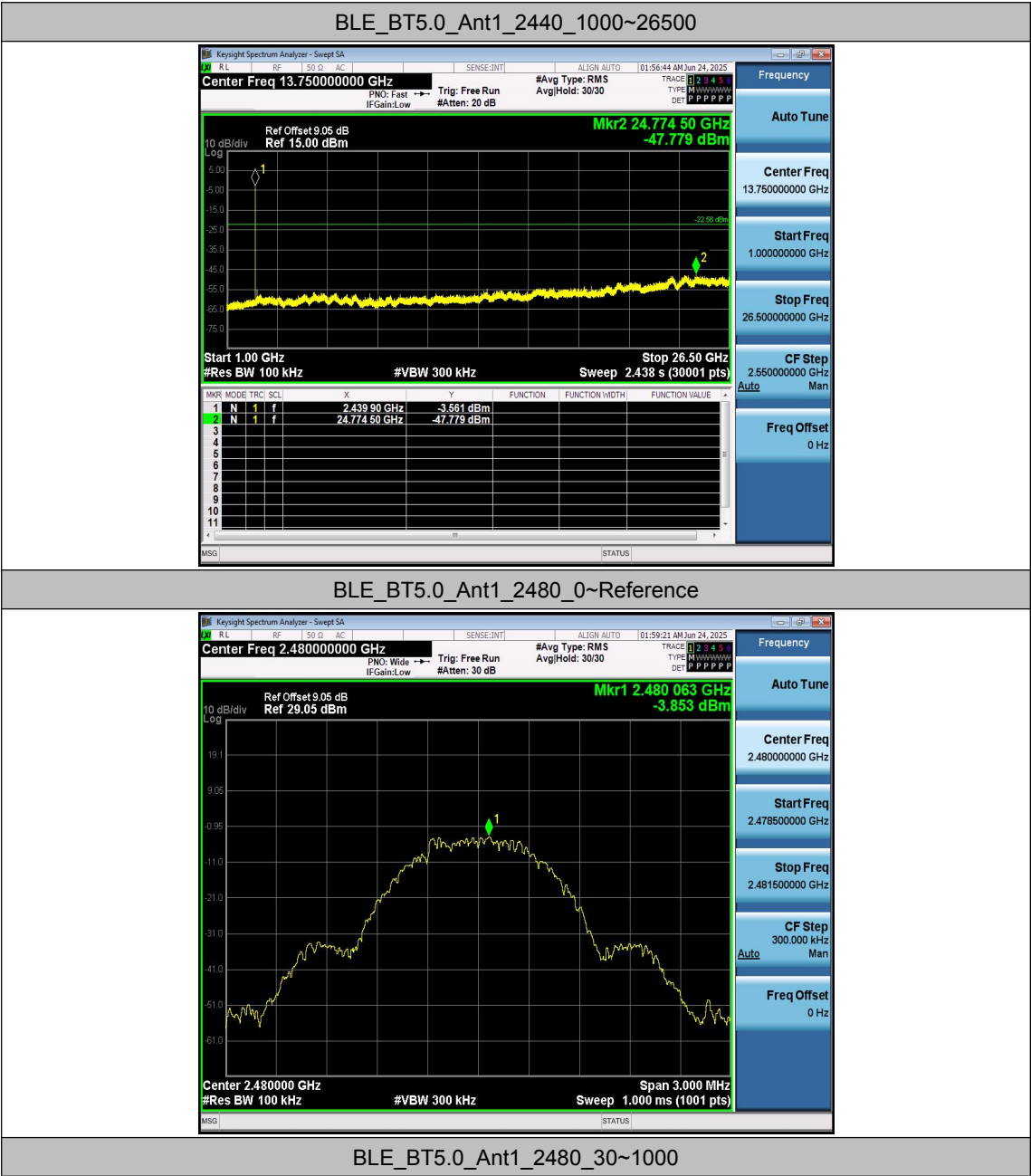


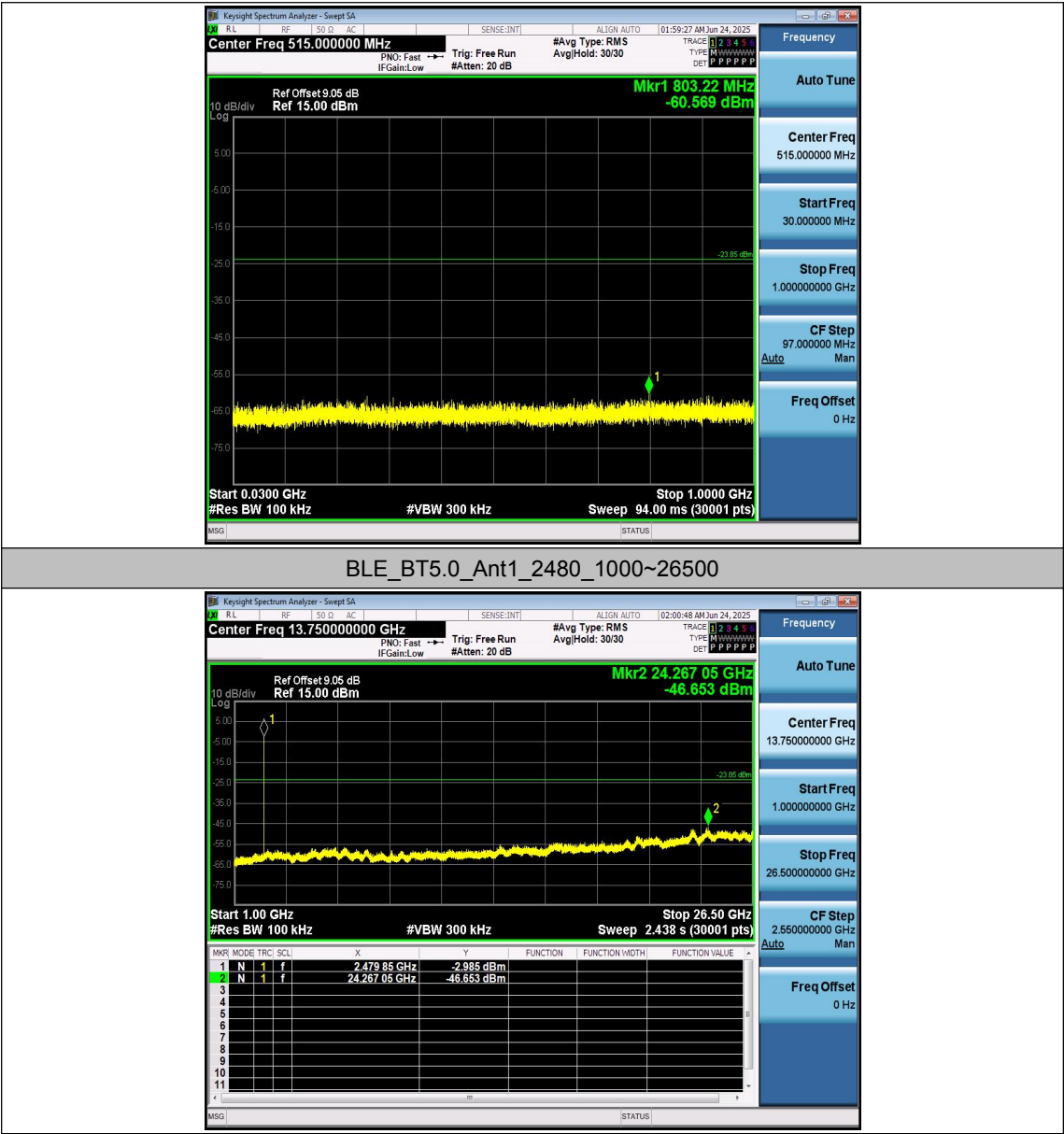
BLE_BT5.0_Ant1_2440_0~Reference



BLE_BT5.0_Ant1_2440_30~1000







Appendix A.7: Emissions in Restricted Bands

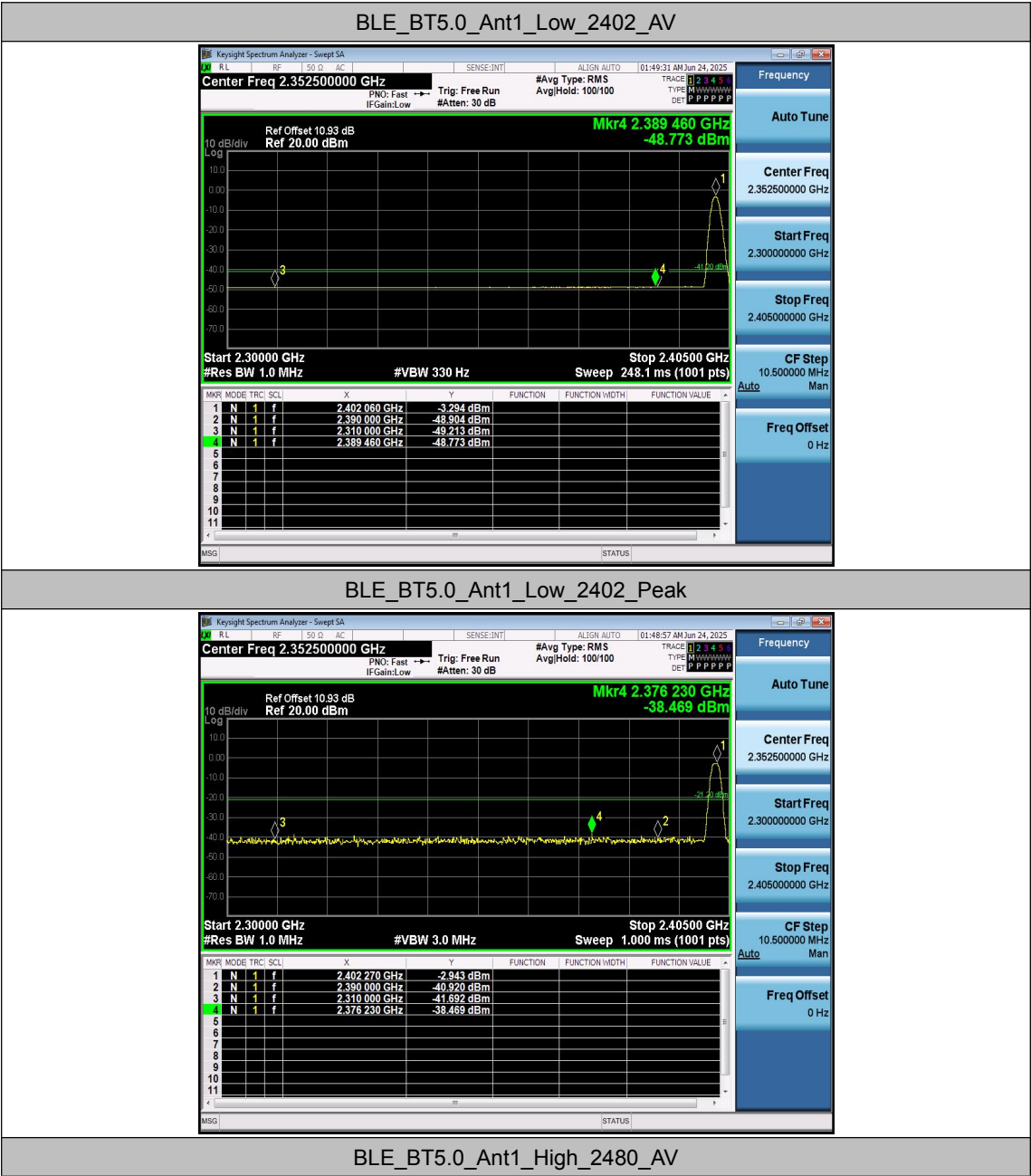
Test Result

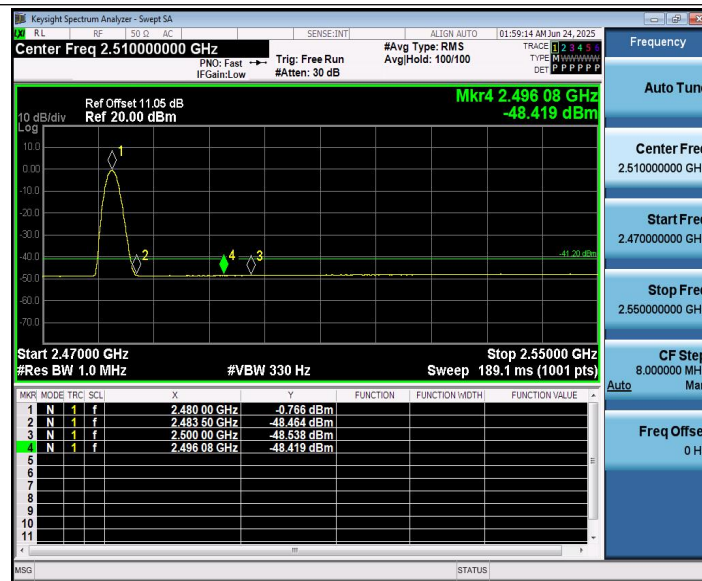
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_BT5.0	Ant1	Low	2402	AV	2310.000	-49.21	≤-41.20	45.99	≤54	PASS
				AV	2389.460	-48.77	≤-41.20	46.43	≤54	PASS
				AV	2390.000	-48.9	≤-41.20	46.30	≤54	PASS
				Peak	2310.000	-41.69	≤-21.20	53.51	≤74	PASS
				Peak	2376.230	-38.47	≤-21.20	56.73	≤74	PASS
				Peak	2390.000	-40.92	≤-21.20	54.28	≤74	PASS
		High	2480	AV	2483.500	-48.46	≤-41.20	46.74	≤54	PASS
				AV	2496.080	-48.42	≤-41.20	46.78	≤54	PASS
				AV	2500.000	-48.54	≤-41.20	46.66	≤54	PASS
				Peak	2483.500	-40.47	≤-21.20	54.73	≤74	PASS
				Peak	2484.320	-38.91	≤-21.20	56.29	≤74	PASS
				Peak	2500.000	-42.75	≤-21.20	52.45	≤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





BLE_BT5.0_Ant1_High_2480_Peak

