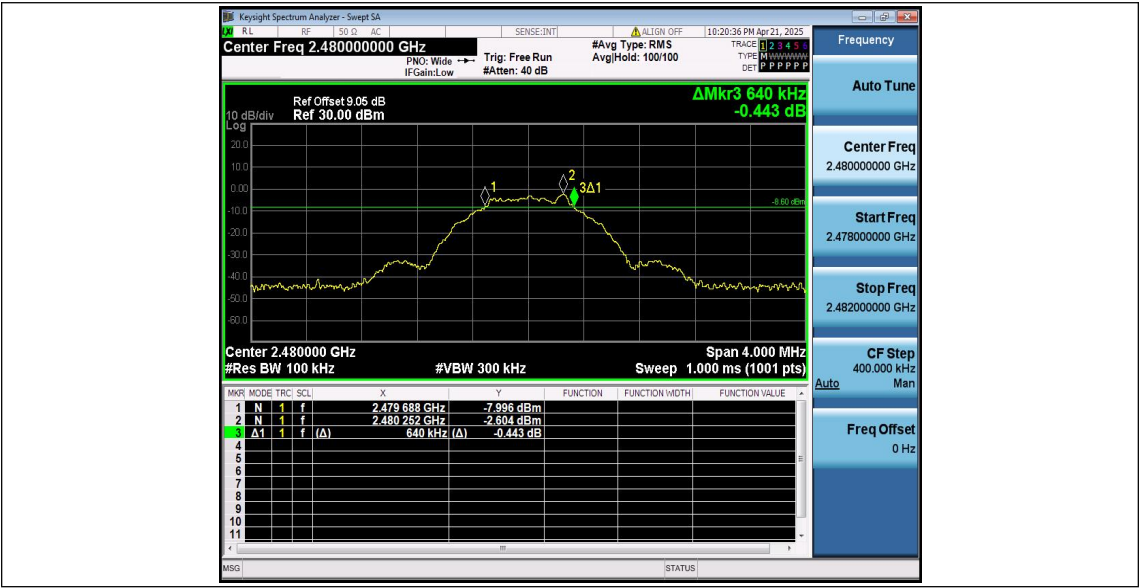


Case No. : <u>GTS20250225018-2-07</u>	
Ambient Condition: <u>22</u> °C, <u>53</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.4.21</u>	Test Engineer: <u>Evan ouyang</u>

Appendix B.1: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_BT4.0	Ant1	2402	0.628	2401.700	2402.328	0.5	PASS
		2440	0.708	2439.640	2440.348	0.5	PASS
		2480	0.640	2479.688	2480.328	0.5	PASS

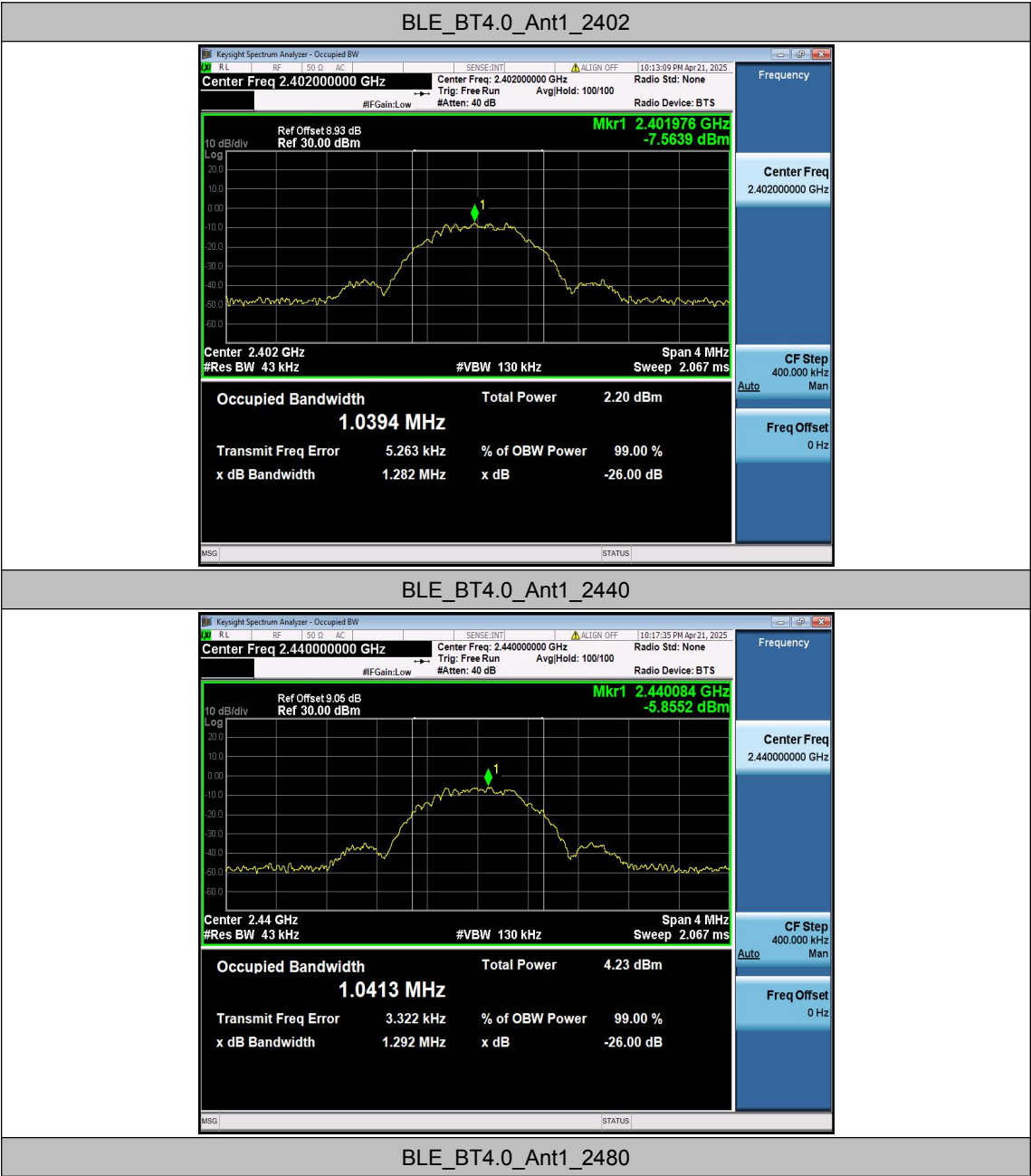


Appendix B.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_BT4.0	Ant1	2402	1.0394	2401.4856	2402.5250	---	---
		2440	1.0413	2439.4827	2440.5240	---	---
		2480	1.0379	2479.4863	2480.5242	---	---

Test Graphs





Appendix B.3: Maximum conducted output power

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_BT4.0	Ant1	2402	-4.31	≤30	PASS
		2440	-2.22	≤30	PASS
		2480	-2.18	≤30	PASS

Appendix B.4: Maximum power spectral density

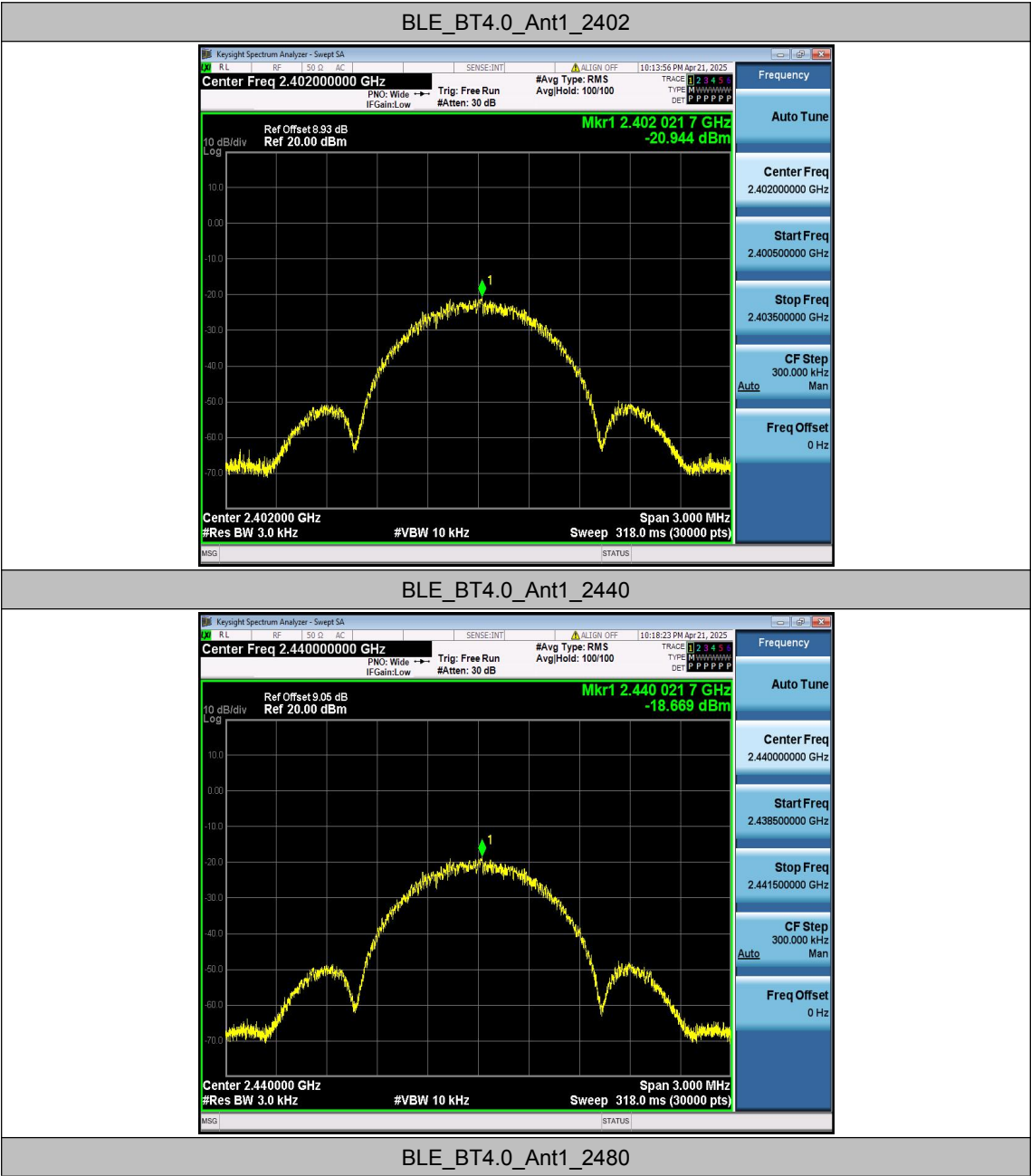
Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_BT4.0	Ant1	2402	-20.94	≤8.00	PASS
		2440	-18.67	≤8.00	PASS
		2480	-18.69	≤8.00	PASS

Note:

1. The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs





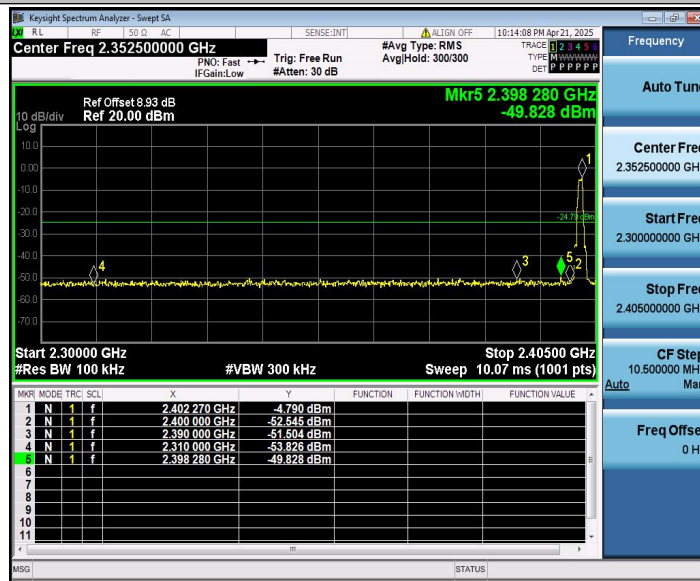
Appendix B.5: Band edge measurements

Test Result

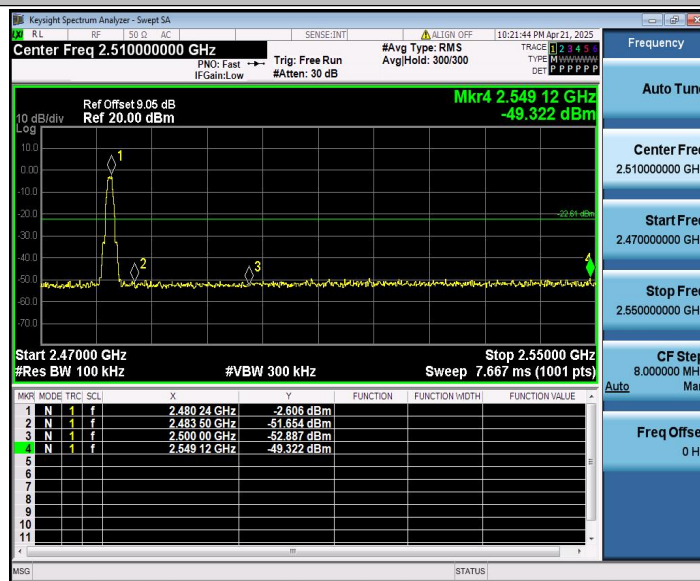
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT4.0	Ant1	Low	2402	-4.79	-49.83	≤ -24.79	PASS
		High	2480	-2.61	-49.32	≤ -22.61	PASS

Test Graphs

BLE_BT4.0_Ant1_Low_2402



BLE_BT4.0_Ant1_High_2480



Appendix B.6: Conducted Spurious Emission

Test Result

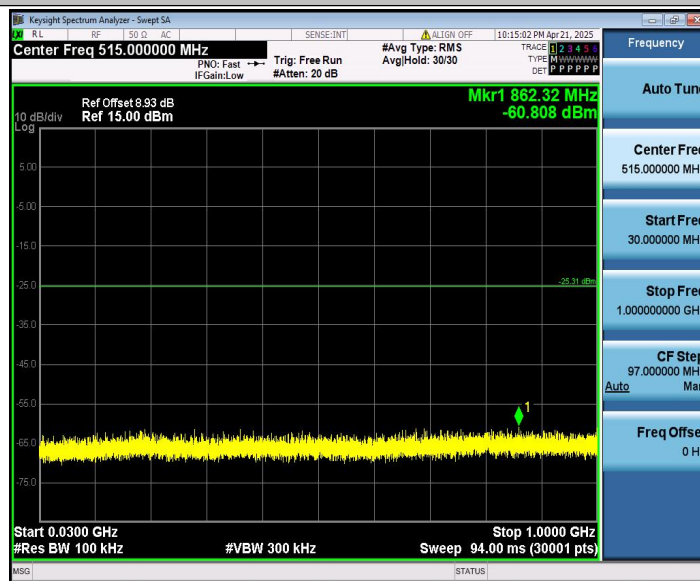
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT4.0	Ant1	2402	Reference	-5.31	-5.31	---	PASS
			30~1000	-5.31	-60.81	≤-25.31	PASS
			1000~26500	-5.31	-47.42	≤-25.31	PASS
		2440	Reference	-3.98	-3.98	---	PASS
			30~1000	-3.98	-60.74	≤-23.98	PASS
			1000~26500	-3.98	-47.21	≤-23.98	PASS
		2480	Reference	-3.11	-3.11	---	PASS
			30~1000	-3.11	-60.34	≤-23.11	PASS
			1000~26500	-3.11	-47.84	≤-23.11	PASS

Test Graphs

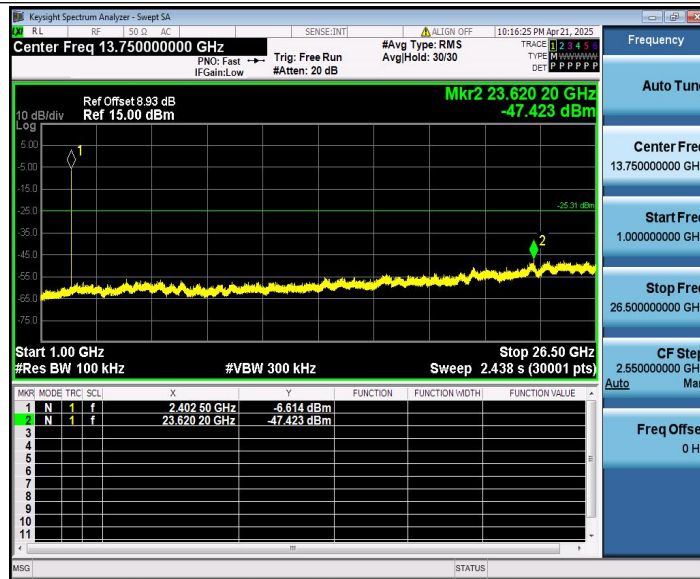
BLE_BT4.0_Ant1_2402_0~Reference



BLE_BT4.0_Ant1_2402_30~1000



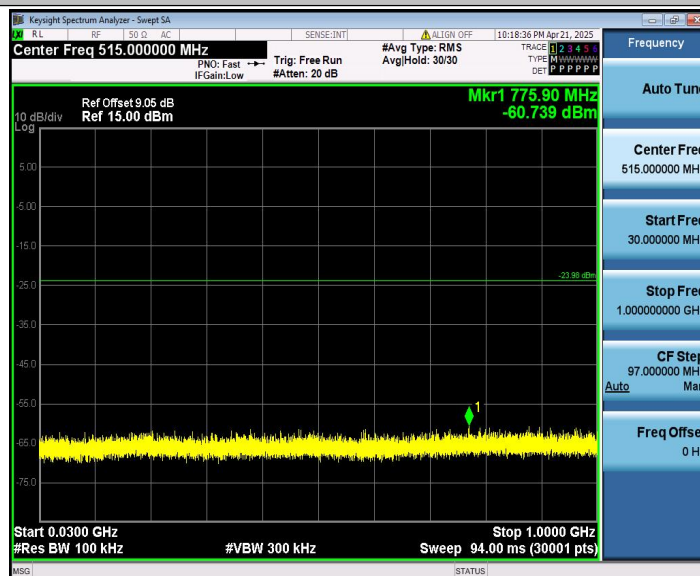
BLE_BT4.0_Ant1_2402_1000~26500



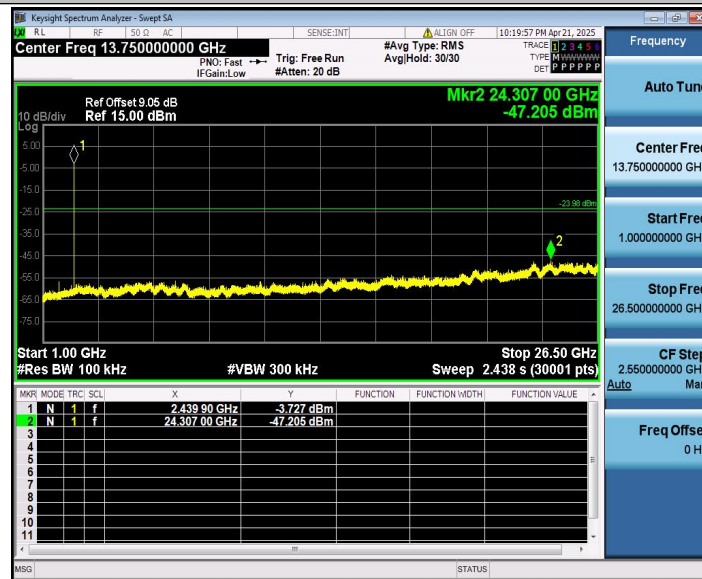
BLE_BT4.0_Ant1_2440_0~Reference



BLE_BT4.0_Ant1_2440_30~1000



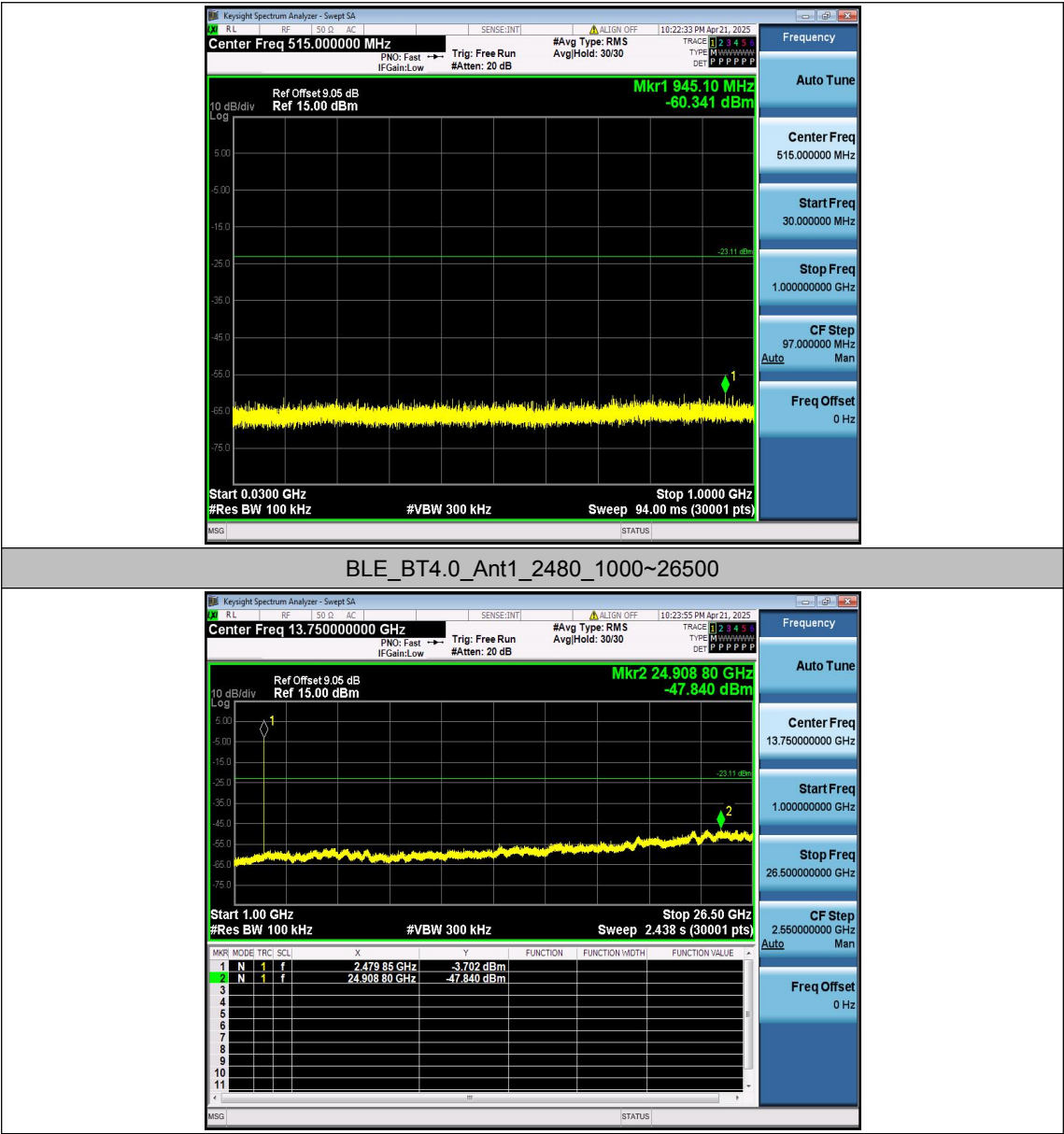
BLE_BT4.0_Ant1_2440_1000~26500



BLE_BT4.0_Ant1_2480_0~Reference



BLE_BT4.0_Ant1_2480_30~1000



Appendix B.7: Emissions in Restricted Bands

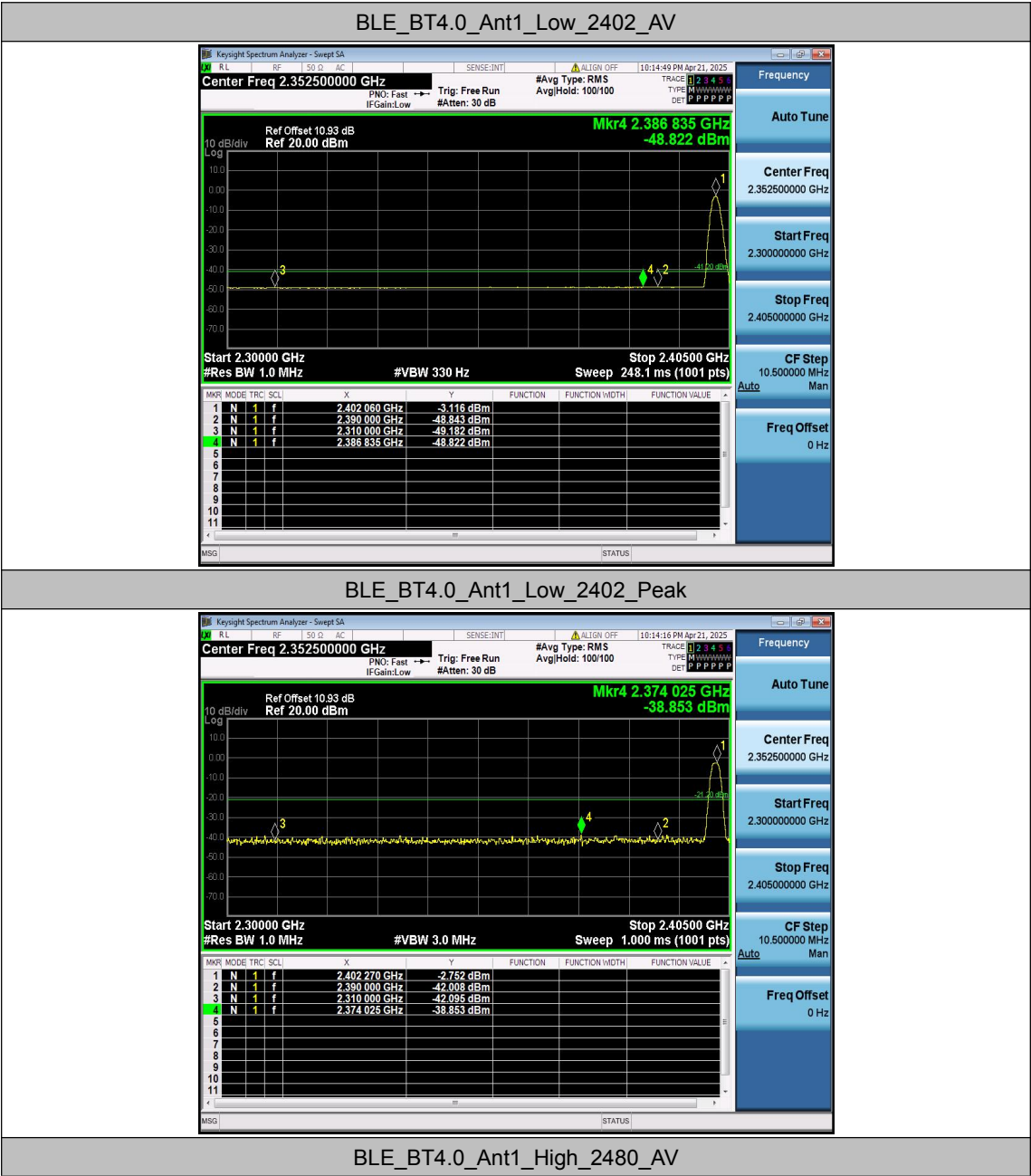
Test Result

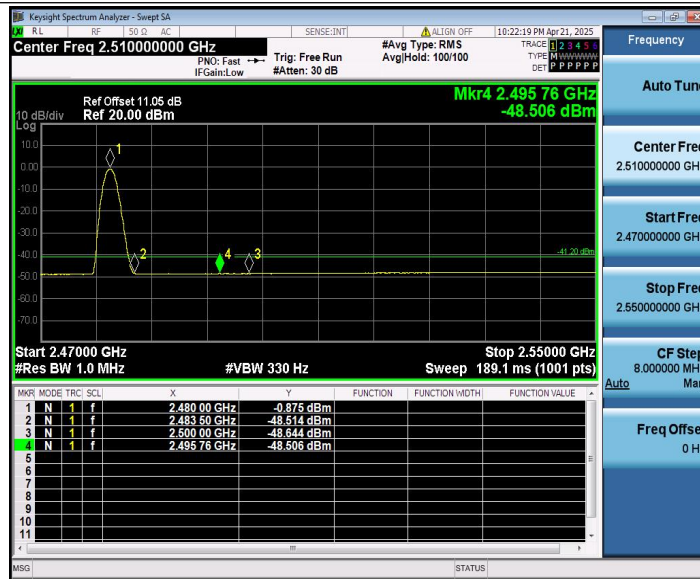
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_BT4 .0	Ant1	Low	2402	AV	2310.000	-49.18	≤-41.20	46.02	≤54	PASS
				AV	2386.835	-48.82	≤-41.20	46.38	≤54	PASS
				AV	2390.000	-48.84	≤-41.20	46.36	≤54	PASS
				Peak	2310.000	-42.1	≤-21.20	53.10	≤74	PASS
				Peak	2374.025	-38.85	≤-21.20	56.35	≤74	PASS
				Peak	2390.000	-42.01	≤-21.20	53.19	≤74	PASS
		High	2480	AV	2483.500	-48.51	≤-41.20	46.69	≤54	PASS
				AV	2495.760	-48.51	≤-41.20	46.69	≤54	PASS
				AV	2500.000	-48.64	≤-41.20	46.56	≤54	PASS
				Peak	2483.500	-39.96	≤-21.20	55.24	≤74	PASS
				Peak	2489.360	-38.66	≤-21.20	56.54	≤74	PASS
				Peak	2500.000	-40.69	≤-21.20	54.51	≤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_BT4.0_Ant1_High_2480_Peak

