

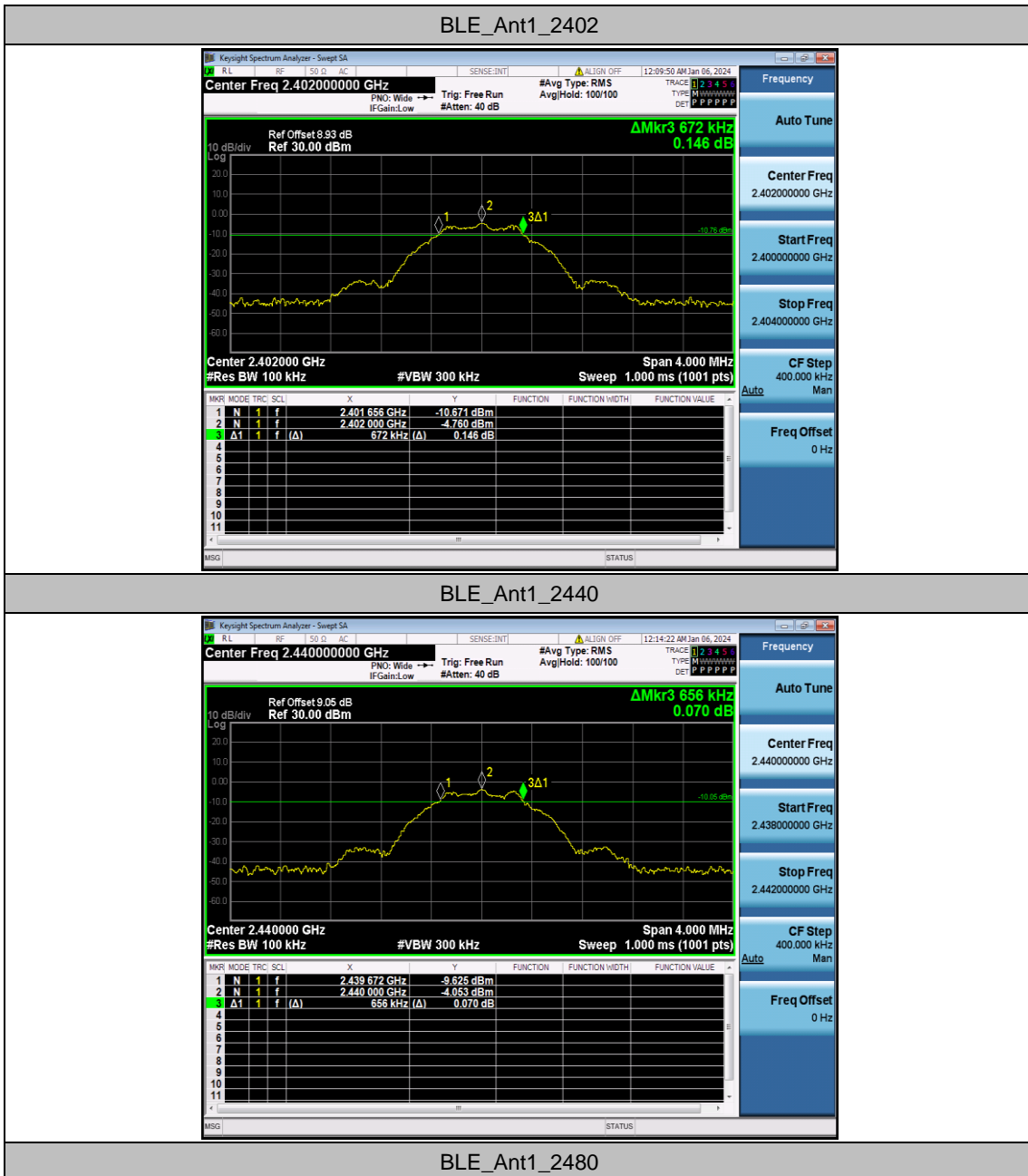
Case No. : <u>GTS20240102003-1-2</u>
Ambient Condition: <u>23 °C, 48 %RH</u>
According Standard: <u>■Part15C</u>
Test Date: <u>2024.1.5</u> Test Engineer: <u>Evan ouyang</u>

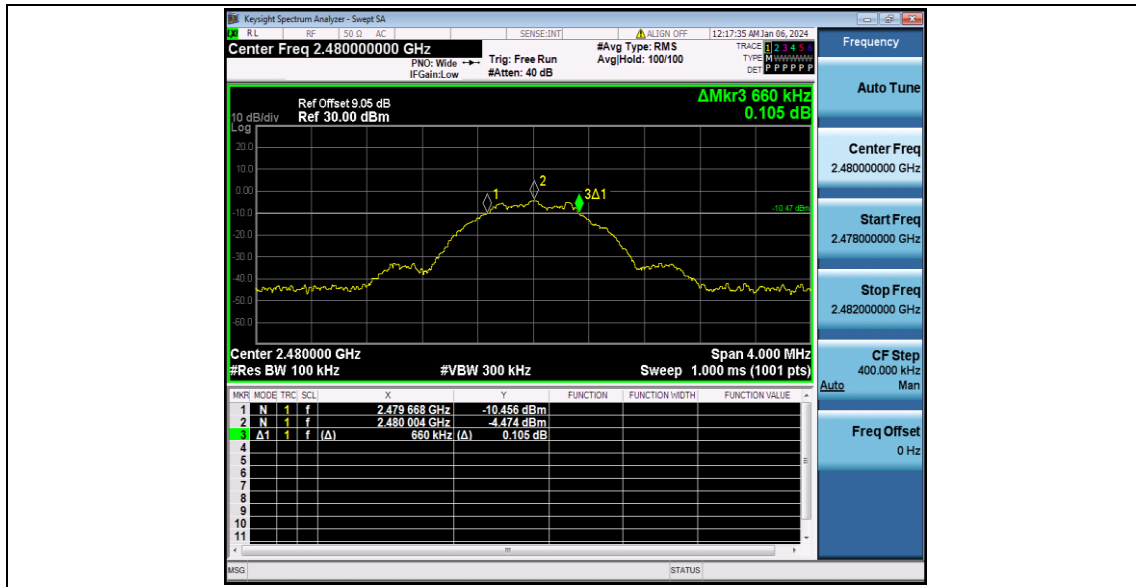
Appendix B.1: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.672	2401.656	2402.328	0.5	PASS
		2440	0.656	2439.672	2440.328	0.5	PASS
		2480	0.660	2479.668	2480.328	0.5	PASS

Test Graphs



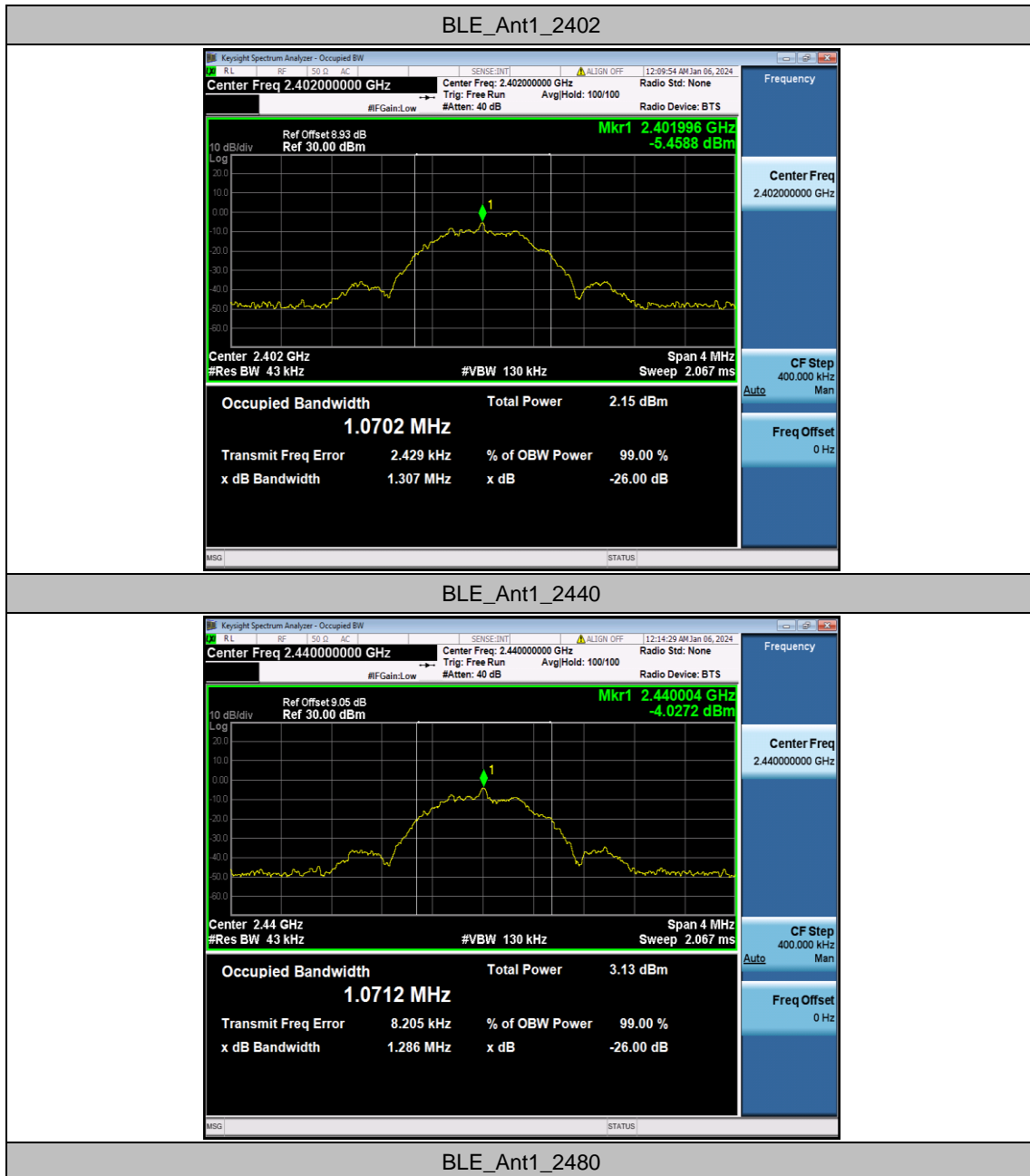


Appendix B.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0702	2401.4673	2402.5375	---	---
		2440	1.0712	2439.4726	2440.5438	---	---
		2480	1.0781	2479.4678	2480.5459	---	---

Test Graphs





Appendix B.3: Maximum conducted output power

Test Result Peak

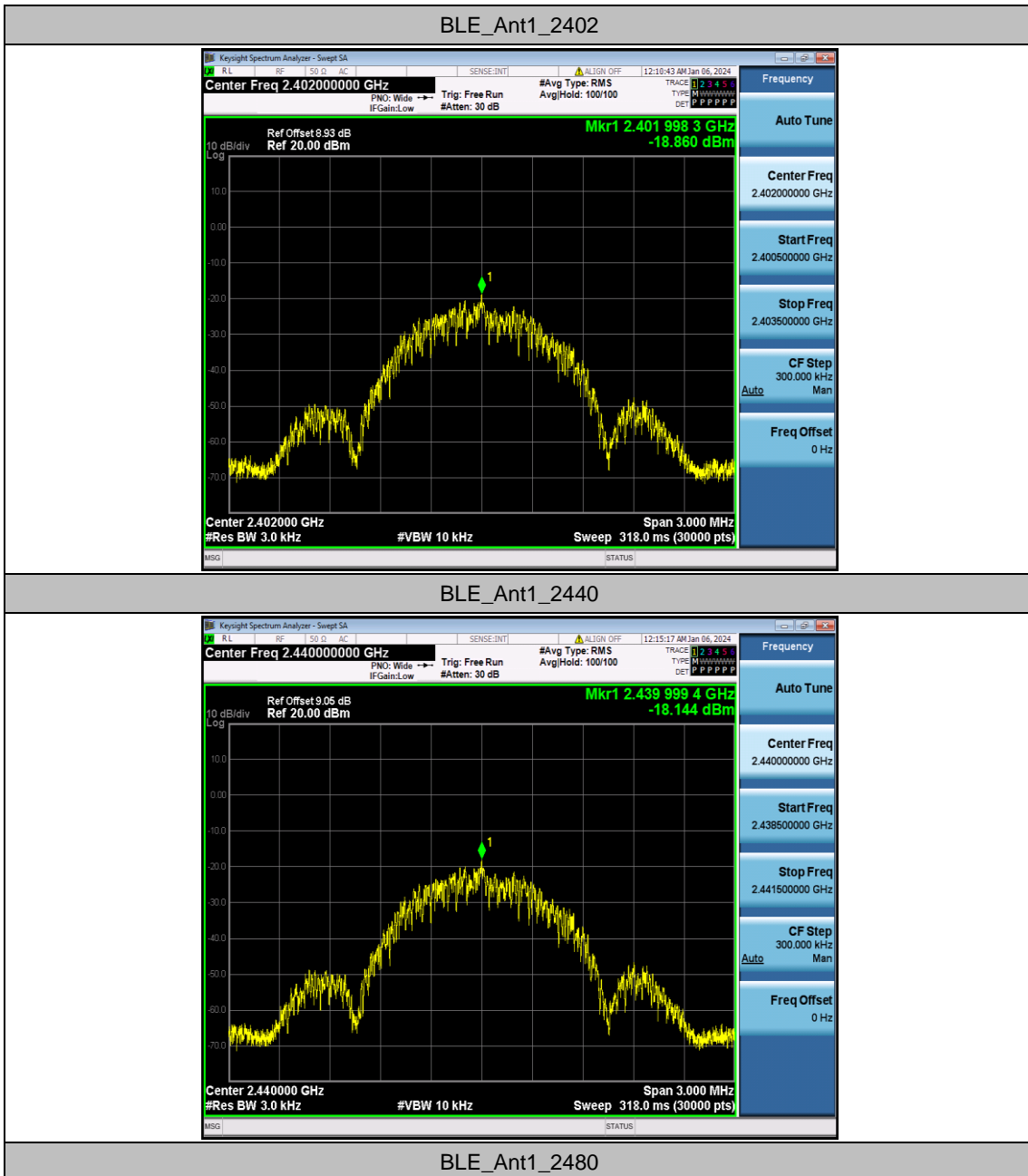
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	-3.90	≤30	PASS
		2440	-3.29	≤30	PASS
		2480	-3.68	≤30	PASS

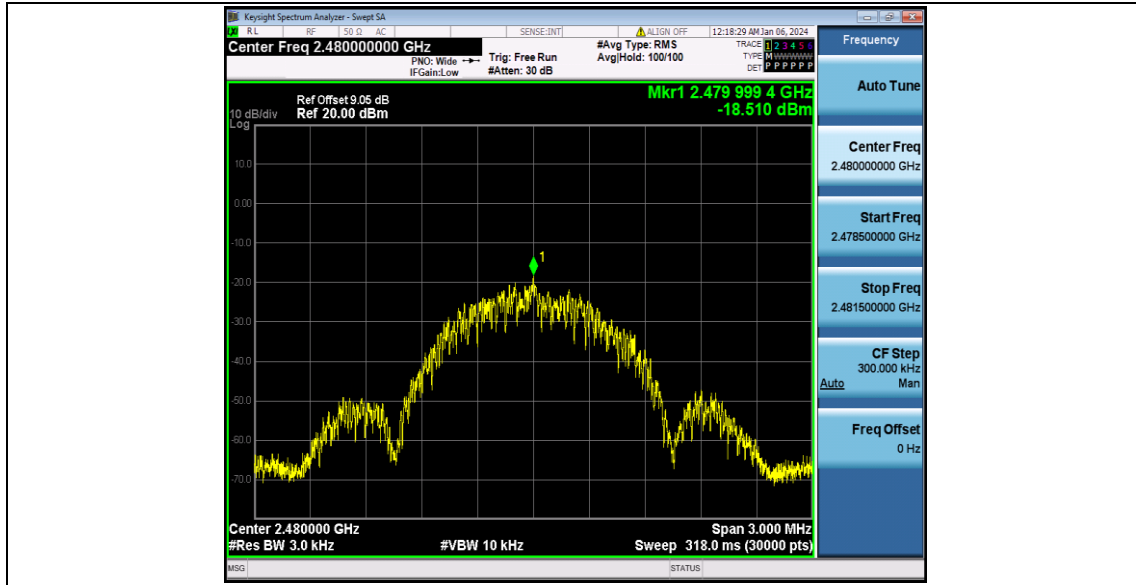
Appendix B.4: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-18.86	≤8.00	PASS
		2440	-18.14	≤8.00	PASS
		2480	-18.51	≤8.00	PASS

Test Graphs



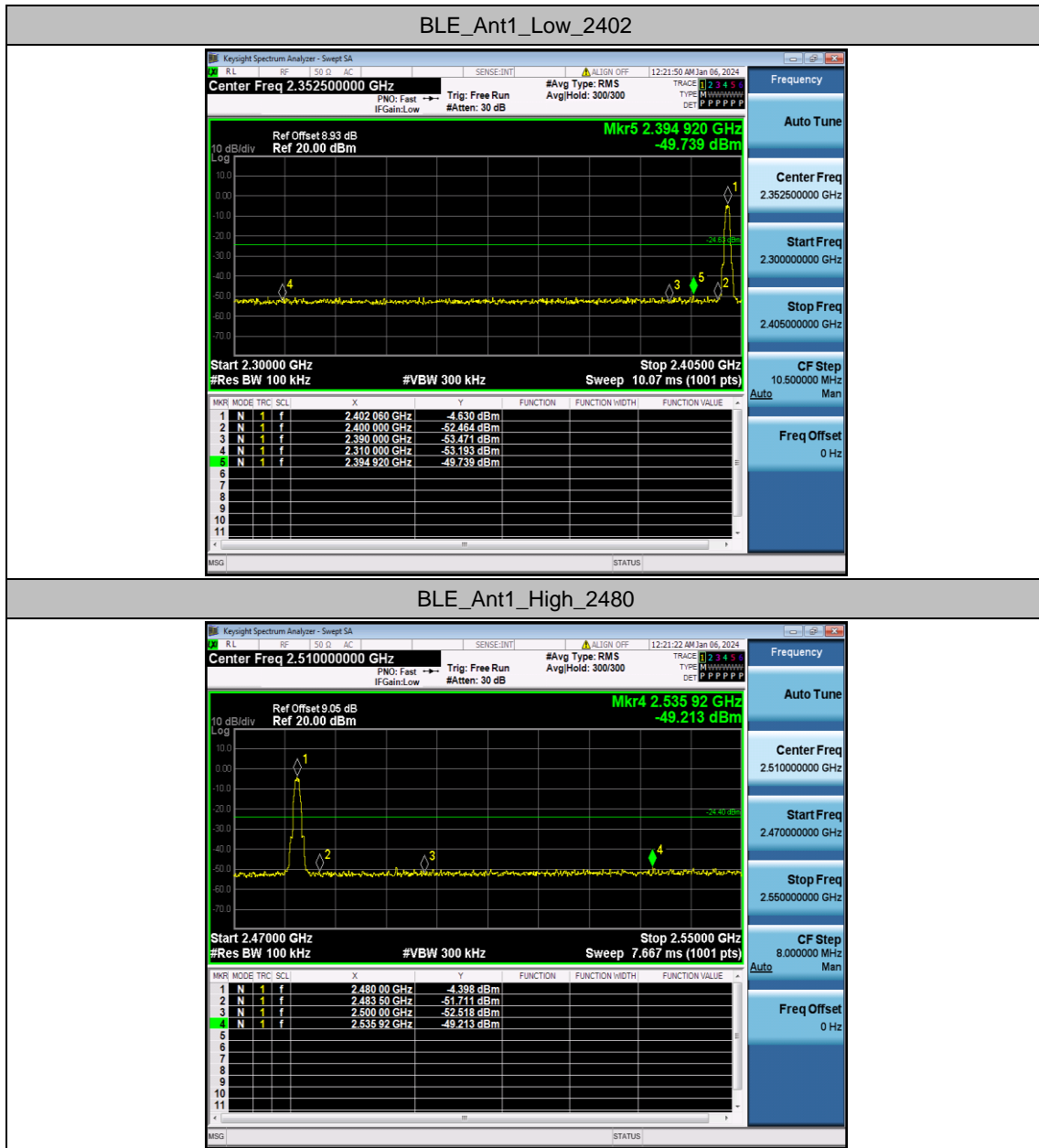


Appendix B.5: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	-4.63	-49.74	≤-24.63	PASS
		High	2480	-4.40	-49.21	≤-24.4	PASS

Test Graphs

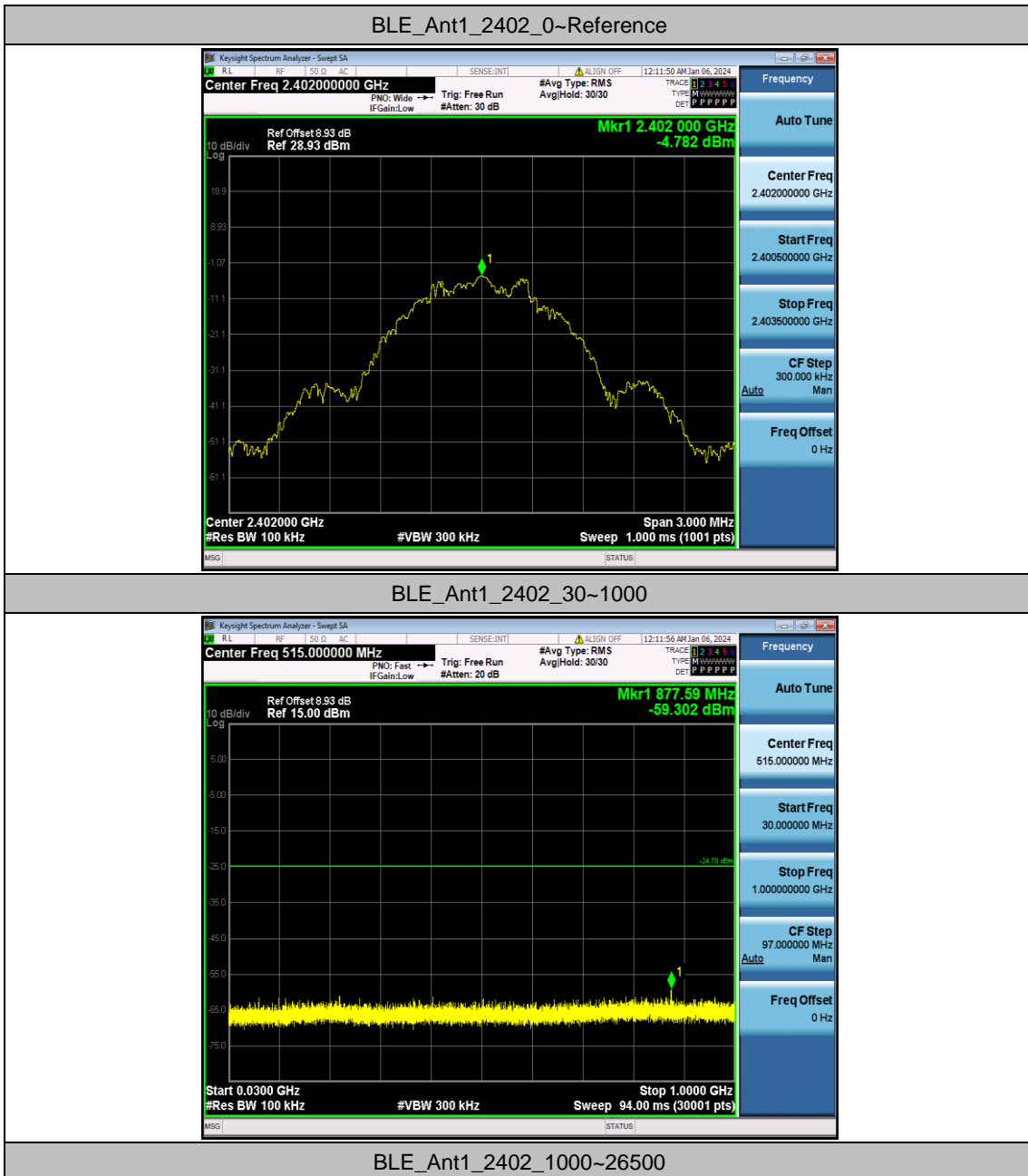


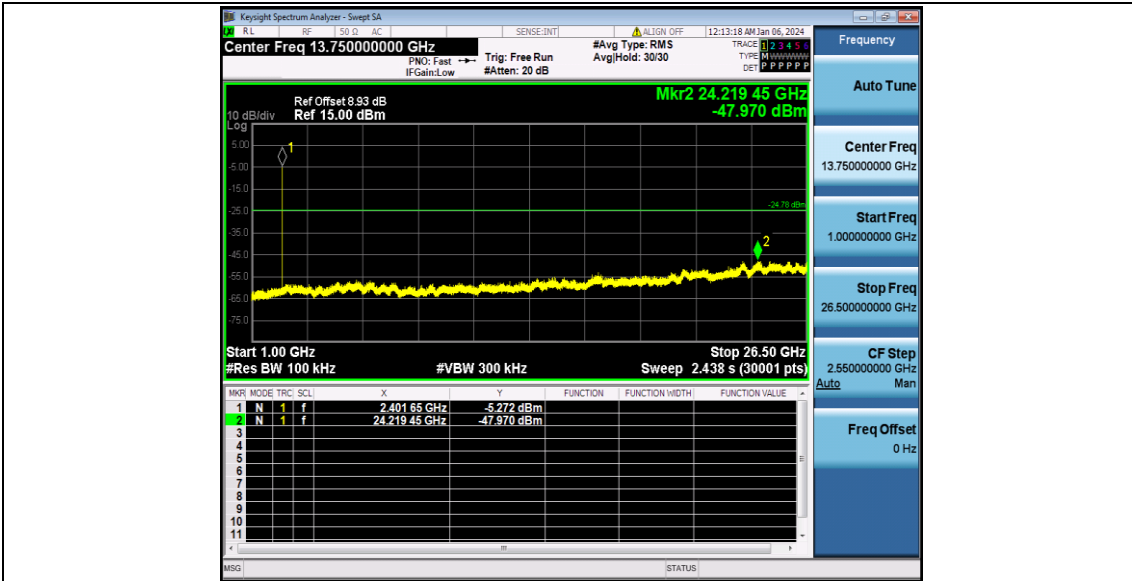
Appendix B.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	-4.78	-4.78	---	PASS
			30~1000	-4.78	-59.3	≤ -24.78	PASS
			1000~26500	-4.78	-47.97	≤ -24.78	PASS
		2440	Reference	-4.11	-4.11	---	PASS
			30~1000	-4.11	-60.95	≤ -24.11	PASS
			1000~26500	-4.11	-47.76	≤ -24.11	PASS
		2480	Reference	-4.51	-4.51	---	PASS
			30~1000	-4.51	-60.19	≤ -24.51	PASS
			1000~26500	-4.51	-47.2	≤ -24.51	PASS

Test Graphs

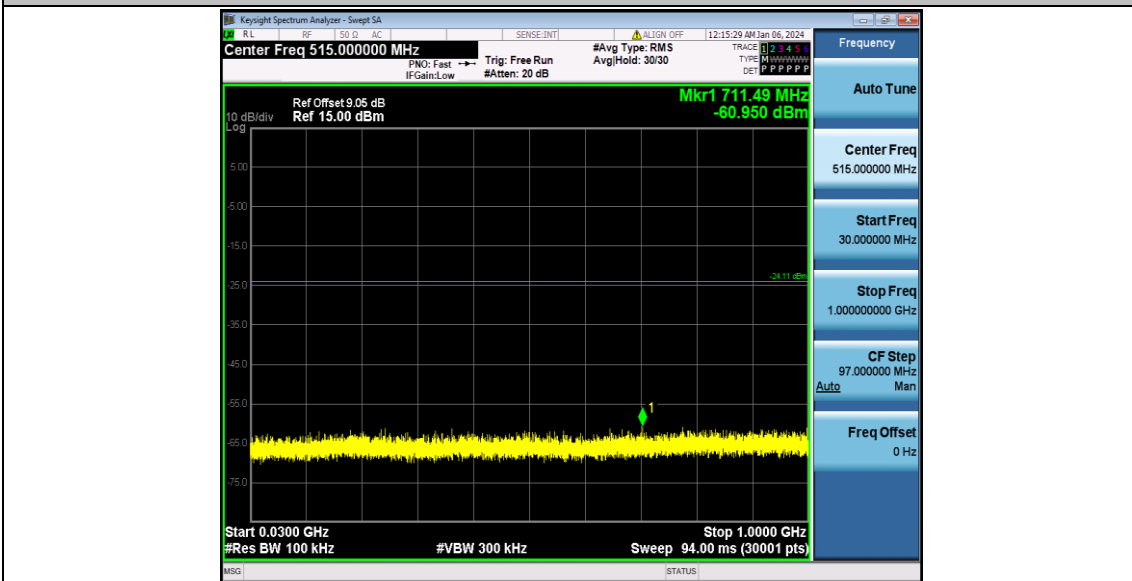




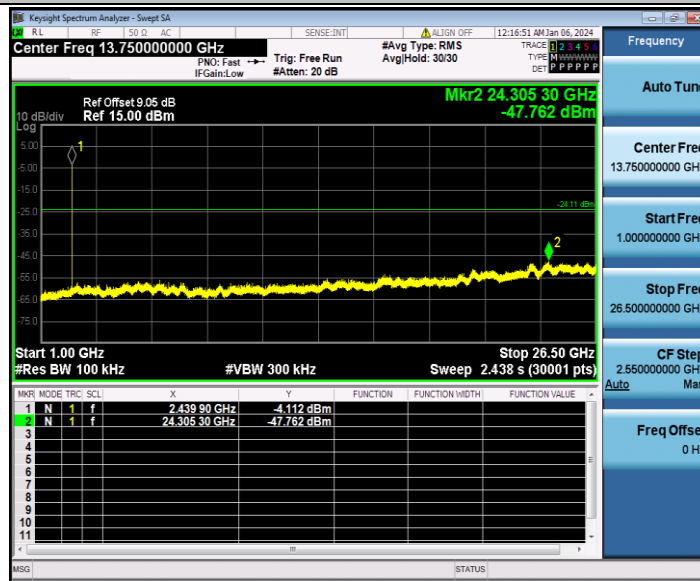
BLE_Ant1_2440_0-Reference



BLE_Ant1_2440_30-1000



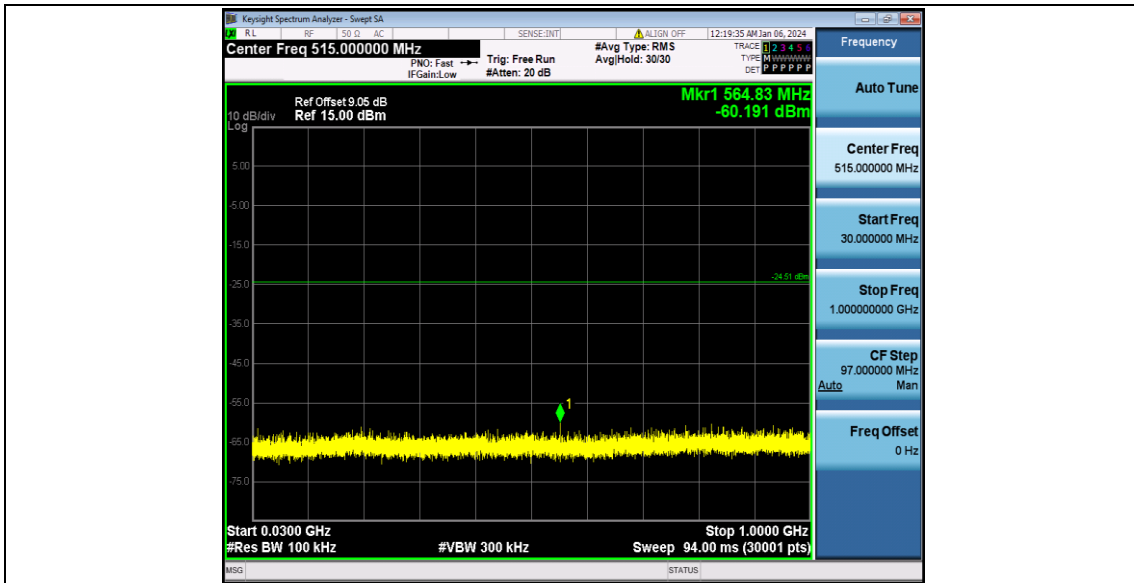
BLE_Ant1_2440_1000~26500



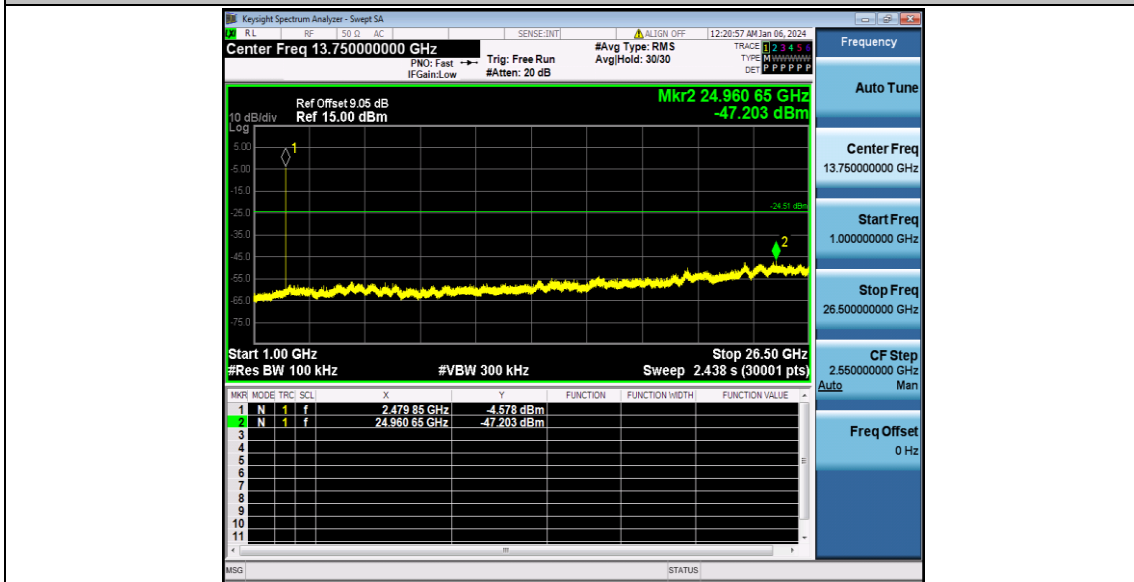
BLE_Ant1_2480_0~Reference



BLE_Ant1_2480_30~1000



BLE_Ant1_2480_1000~26500



Appendix B.7: Emissions in Restricted Bands

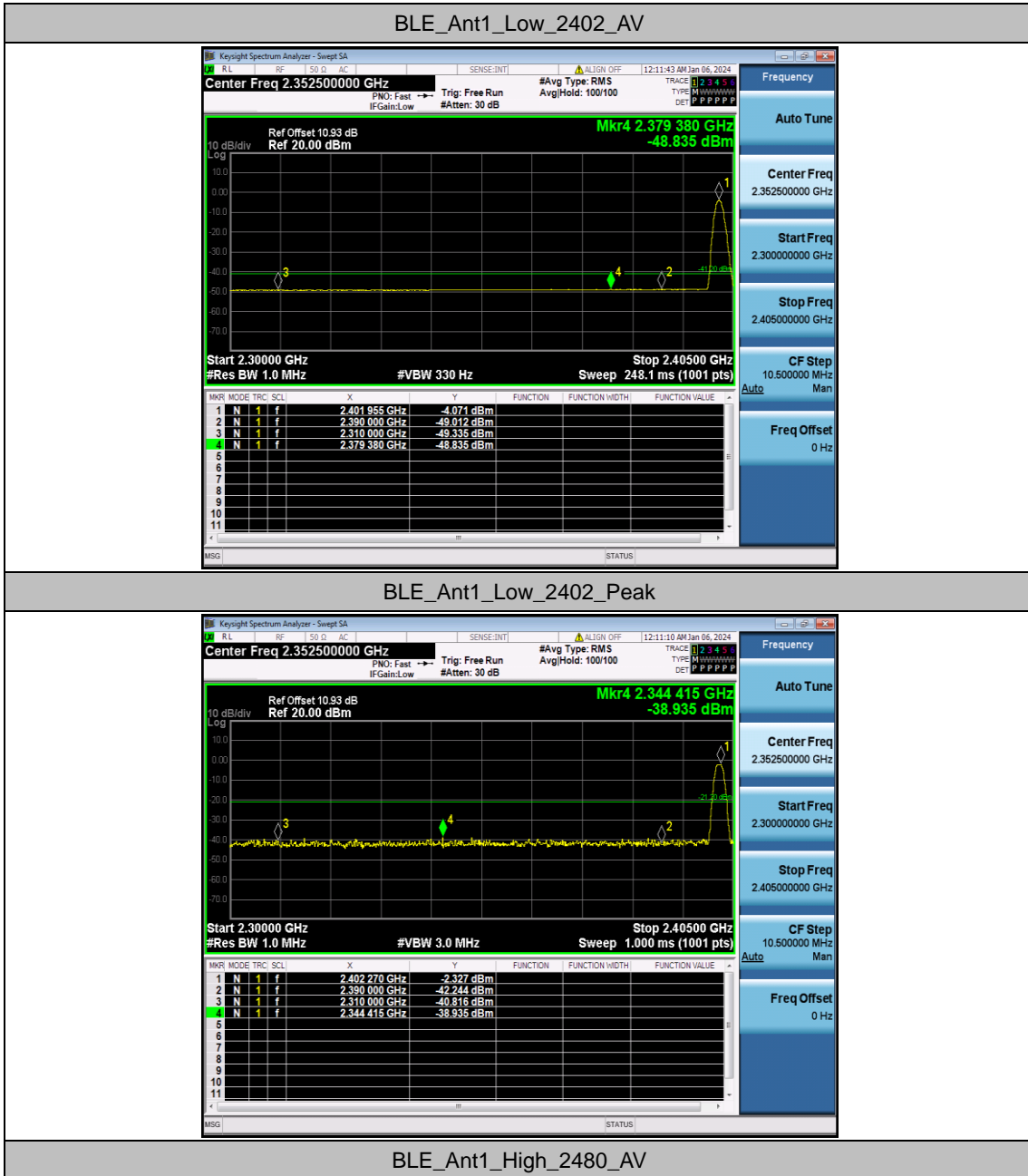
Test Result

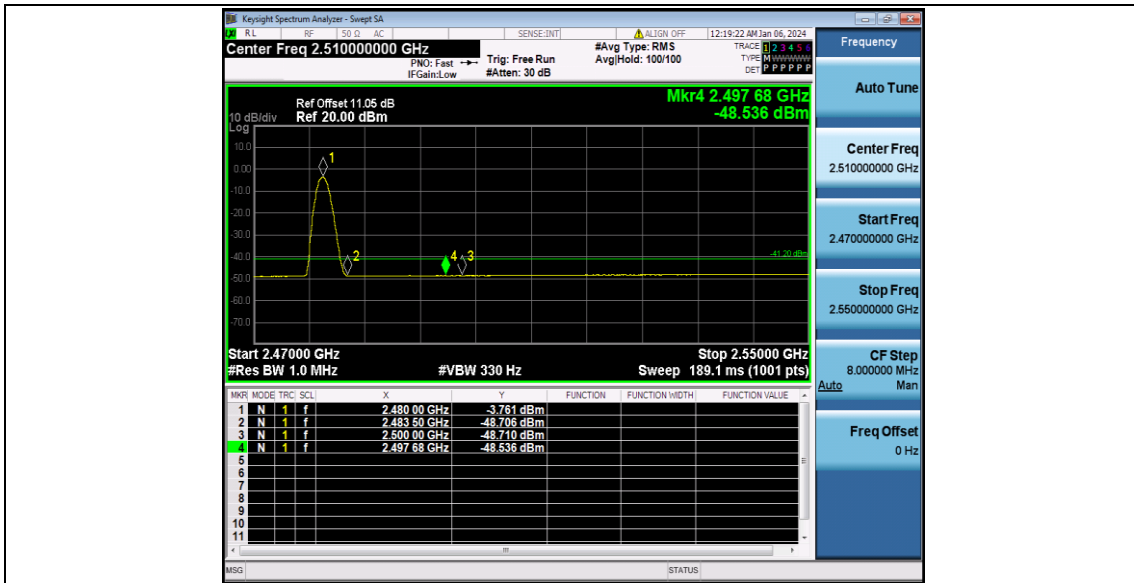
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	Ant1	Low	2402	AV	2310.000	-49.34	≤-41.20	45.86	≤54	PASS
				AV	2379.380	-48.84	≤-41.20	46.36	≤54	PASS
				AV	2390.000	-49.01	≤-41.20	46.19	≤54	PASS
				Peak	2310.000	-40.82	≤-21.20	54.38	≤74	PASS
				Peak	2344.415	-38.93	≤-21.20	56.27	≤74	PASS
				Peak	2390.000	-42.24	≤-21.20	52.96	≤74	PASS
		High	2480	AV	2483.500	-48.71	≤-41.20	46.49	≤54	PASS
				AV	2497.680	-48.54	≤-41.20	46.66	≤54	PASS
				AV	2500.000	-48.71	≤-41.20	46.49	≤54	PASS
				Peak	2483.500	-42.17	≤-21.20	53.03	≤74	PASS
				Peak	2488.960	-38.34	≤-21.20	56.86	≤74	PASS
				Peak	2500.000	-39.41	≤-21.20	55.79	≤74	PASS

Note:

1. The Antenna Gain is compensated in the graph.
2. 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_Ant1_High_2480_Peak

