

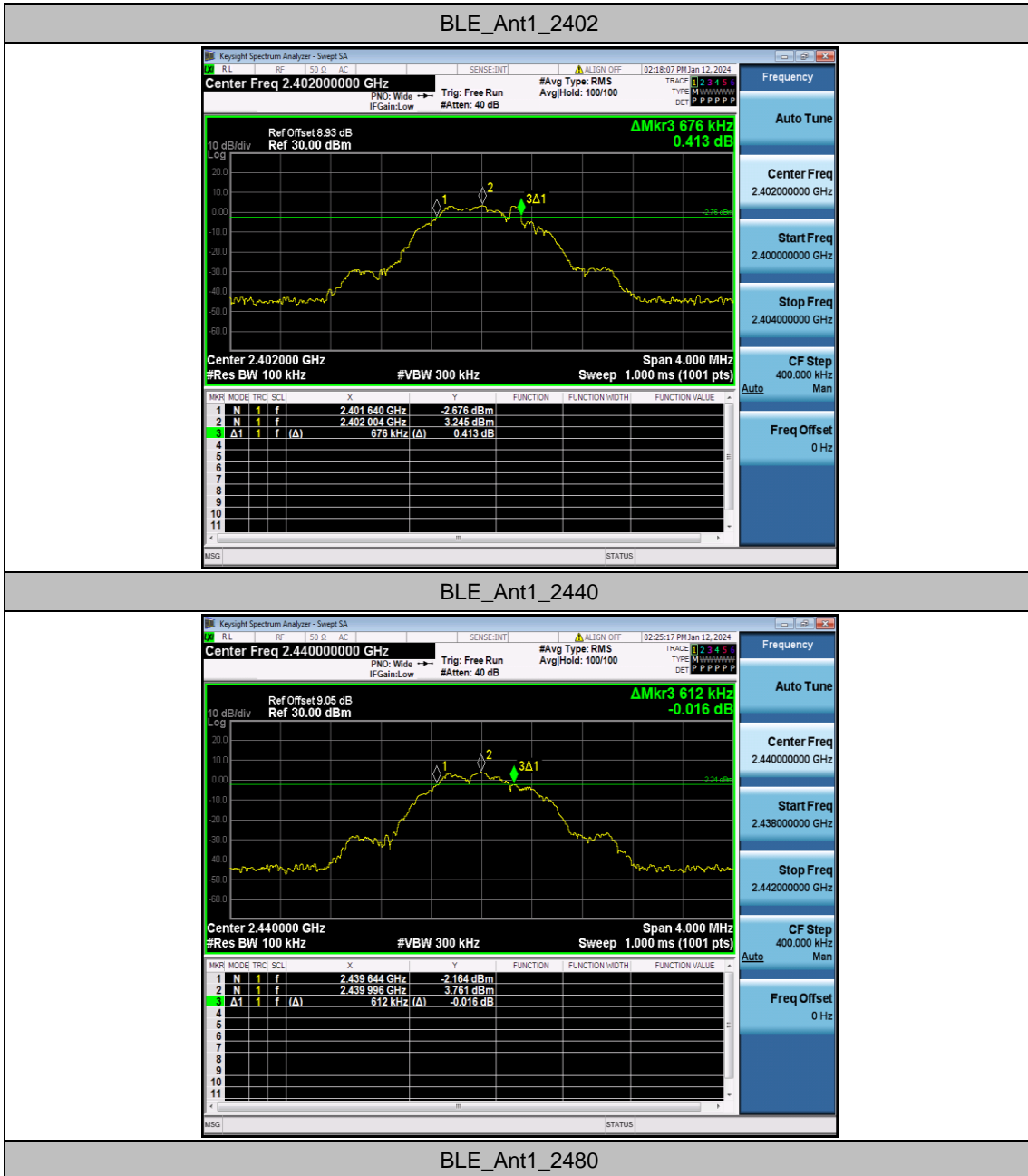
Case No. : <u>GTS20231120007-1-3</u>
Ambient Condition: <u>23 °C, 48 %RH</u>
According Standard: <u>■Part15C</u>
Test Date: <u>2024.1.11</u> Test Engineer: <u>Evan ouyang</u>

Appendix B.1: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.676	2401.640	2402.316	0.5	PASS
		2440	0.612	2439.644	2440.256	0.5	PASS
		2480	0.688	2479.664	2480.352	0.5	PASS

Test Graphs



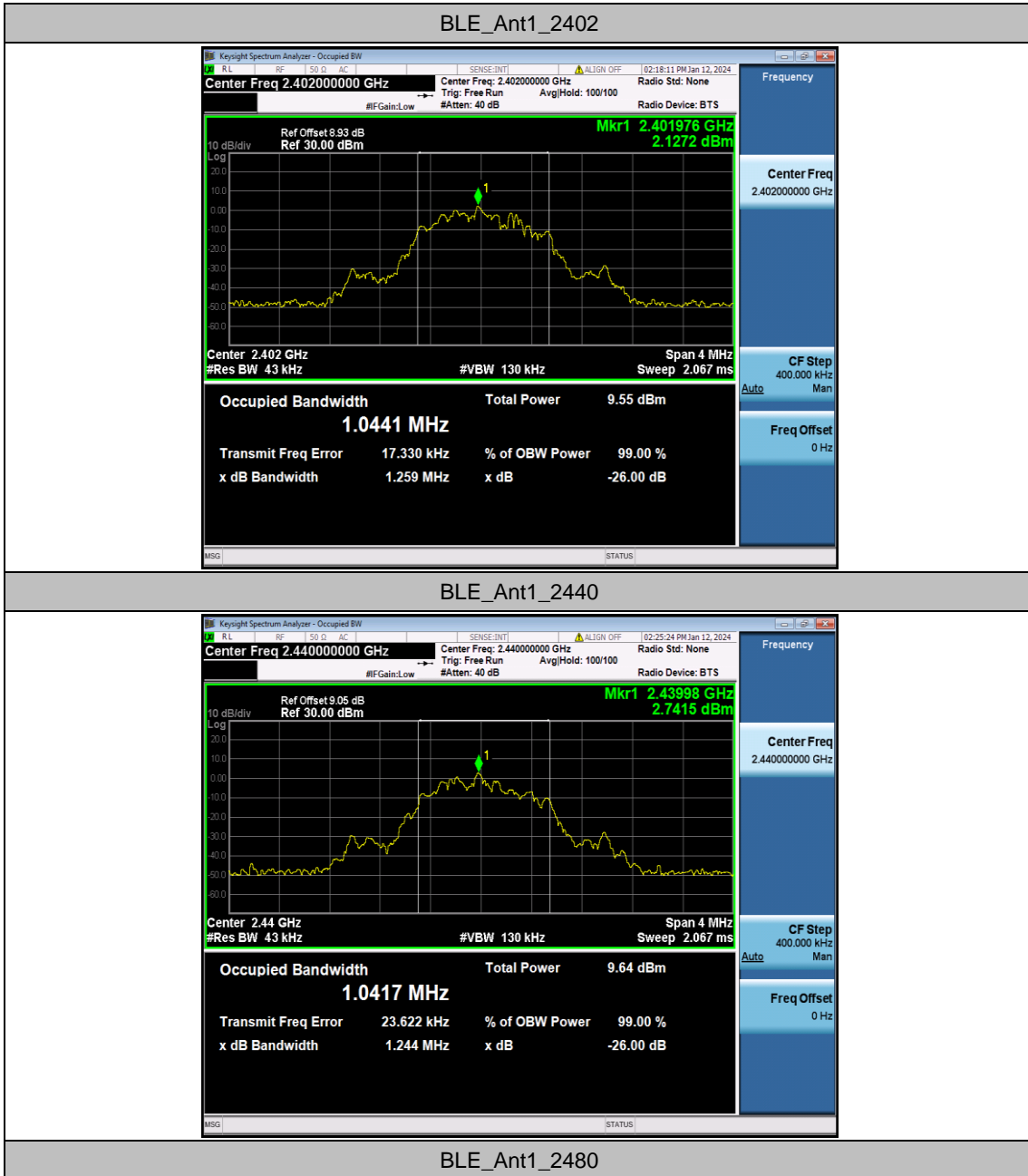


Appendix B.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0441	2401.4953	2402.5394	---	---
		2440	1.0417	2439.5028	2440.5445	---	---
		2480	1.0435	2479.4958	2480.5393	---	---

Test Graphs





Appendix B.3: Maximum conducted output power

Test Result

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	4.00	≤30	PASS
		2440	4.56	≤30	PASS
		2480	5.40	≤30	PASS

Note:

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

Appendix B.4: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-12.77	≤8.00	PASS
		2440	-10.89	≤8.00	PASS
		2480	-12.17	≤8.00	PASS

Note:

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

Test Graphs

BLE_Ant1_2402



BLE_Ant1_2440



BLE_Ant1_2480

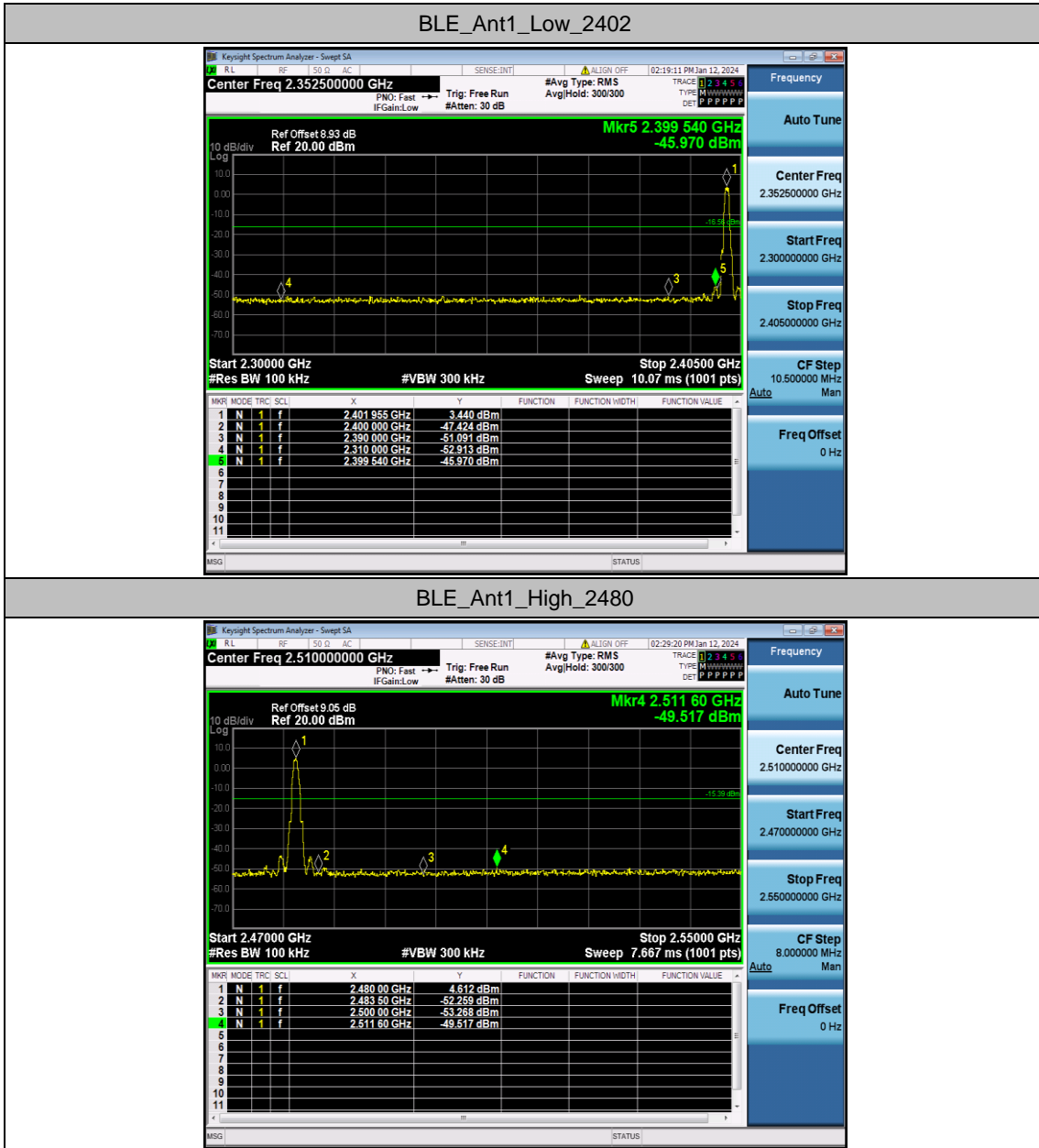


Appendix B.5: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE	Ant1	Low	2402	3.44	-45.97	≤-16.56	PASS
		High	2480	4.61	-49.52	≤-15.39	PASS

Test Graphs

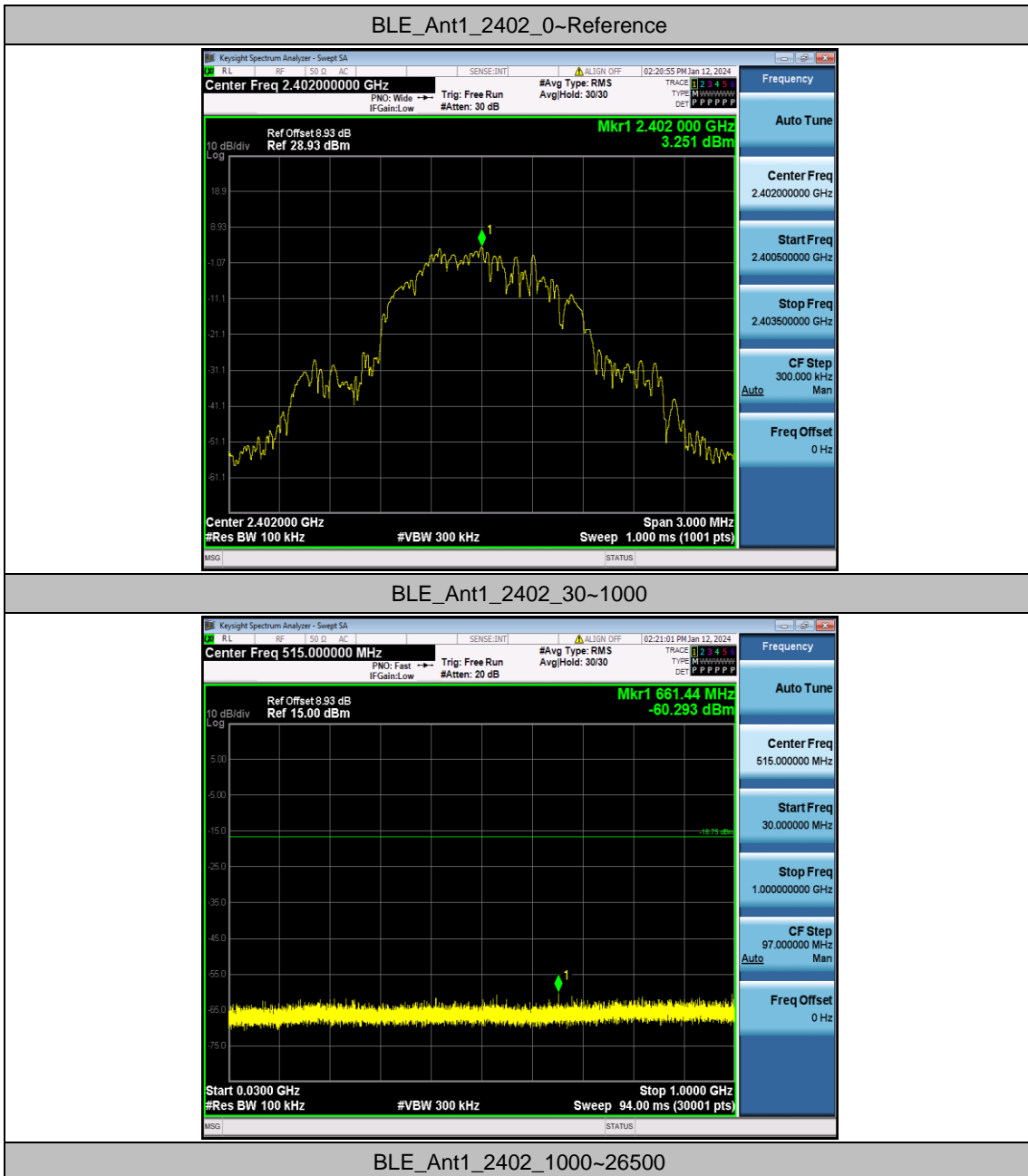


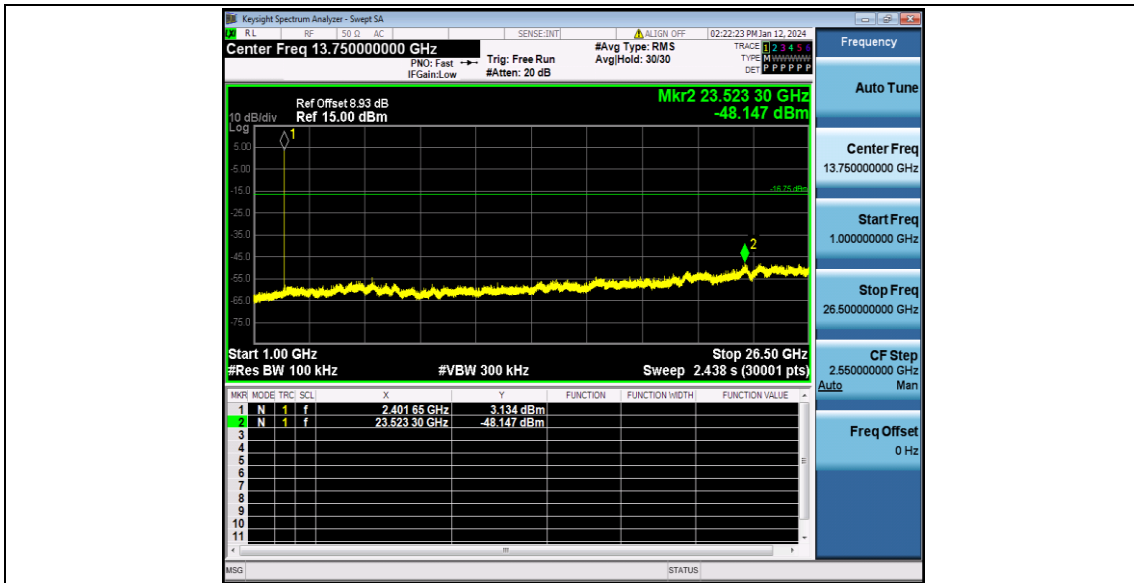
Appendix B.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	3.25	3.25	---	PASS
			30~1000	3.25	-60.29	≤-16.75	PASS
			1000~26500	3.25	-48.15	≤-16.75	PASS
		2440	Reference	3.71	3.71	---	PASS
			30~1000	3.71	-60.14	≤-16.29	PASS
			1000~26500	3.71	-48.35	≤-16.29	PASS
		2480	Reference	3.88	3.88	---	PASS
			30~1000	3.88	-59.95	≤-16.12	PASS
			1000~26500	3.88	-48.02	≤-16.12	PASS

Test Graphs

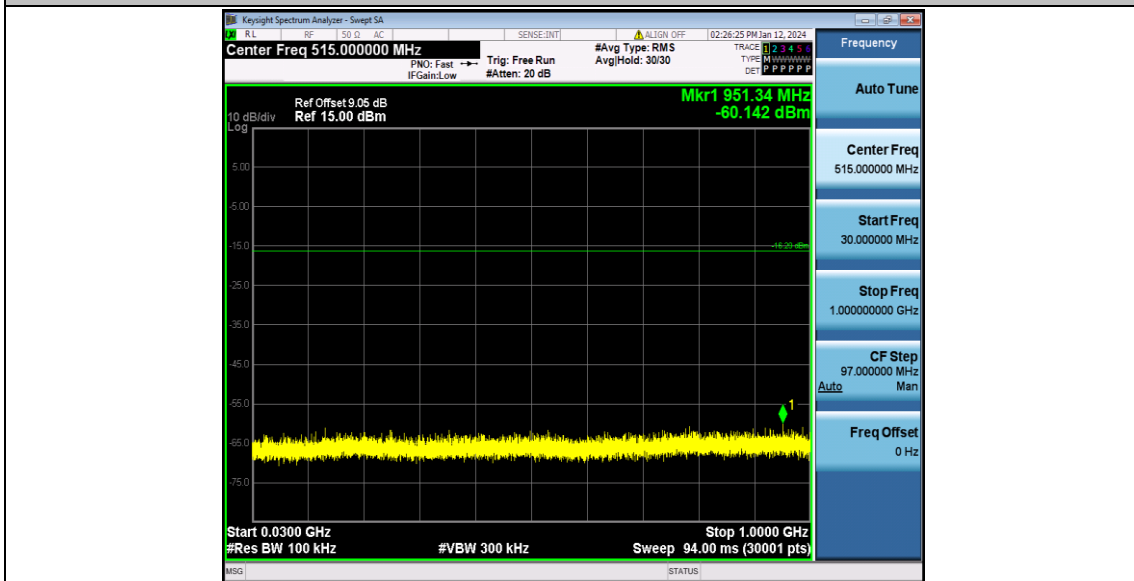




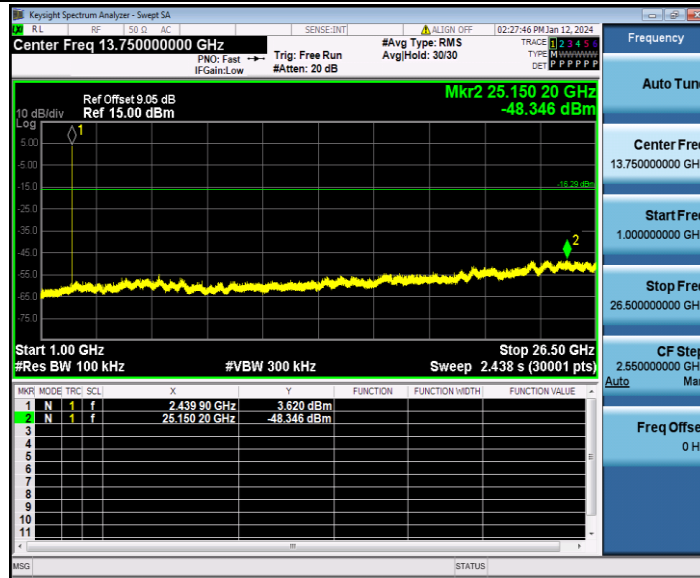
BLE_Ant1_2440_0-Reference



BLE_Ant1_2440_30-1000



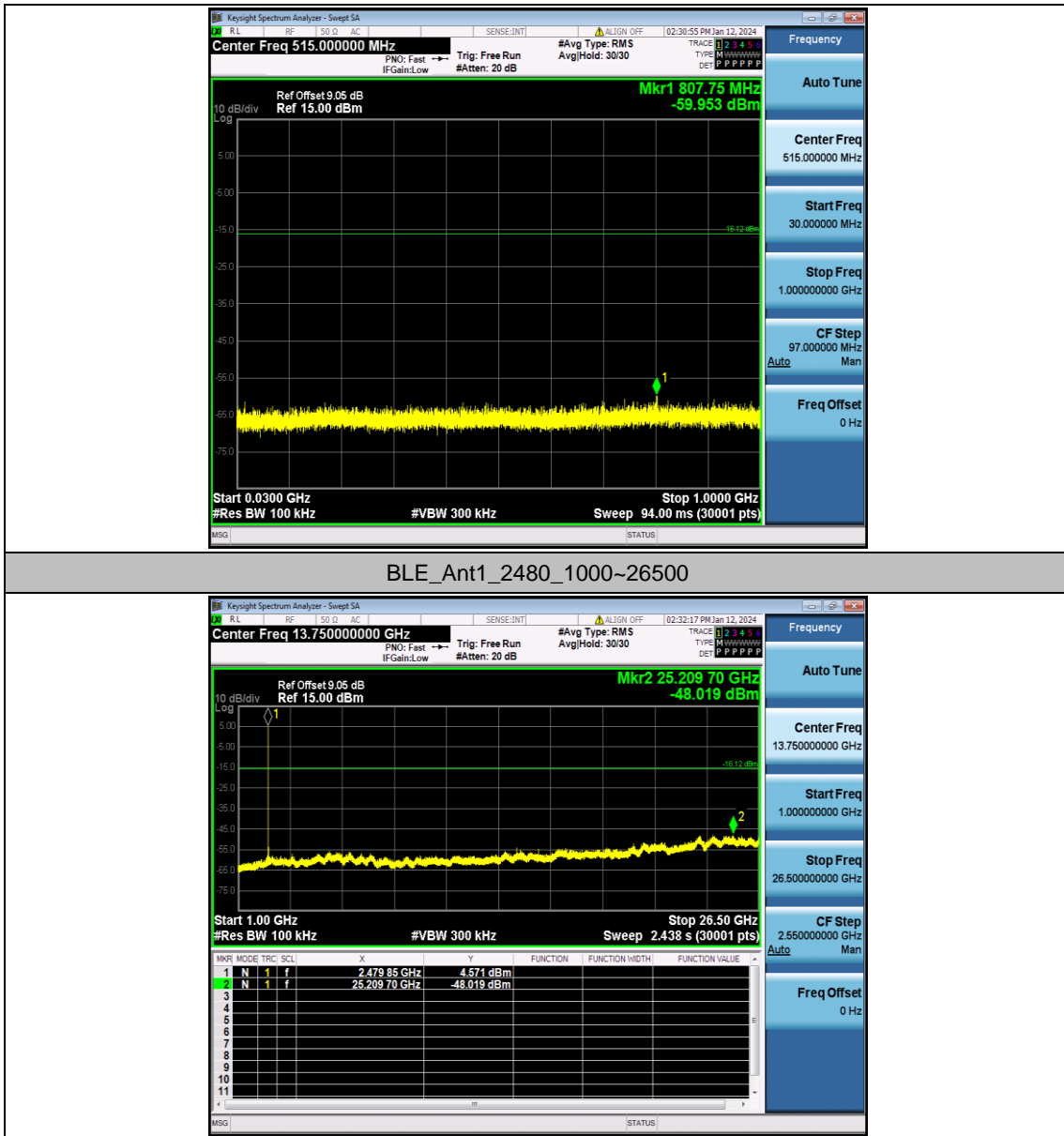
BLE_Ant1_2440_1000~26500



BLE_Ant1_2480_0~Reference



BLE_Ant1_2480_30~1000



Appendix B.7: Emissions in Restricted Bands

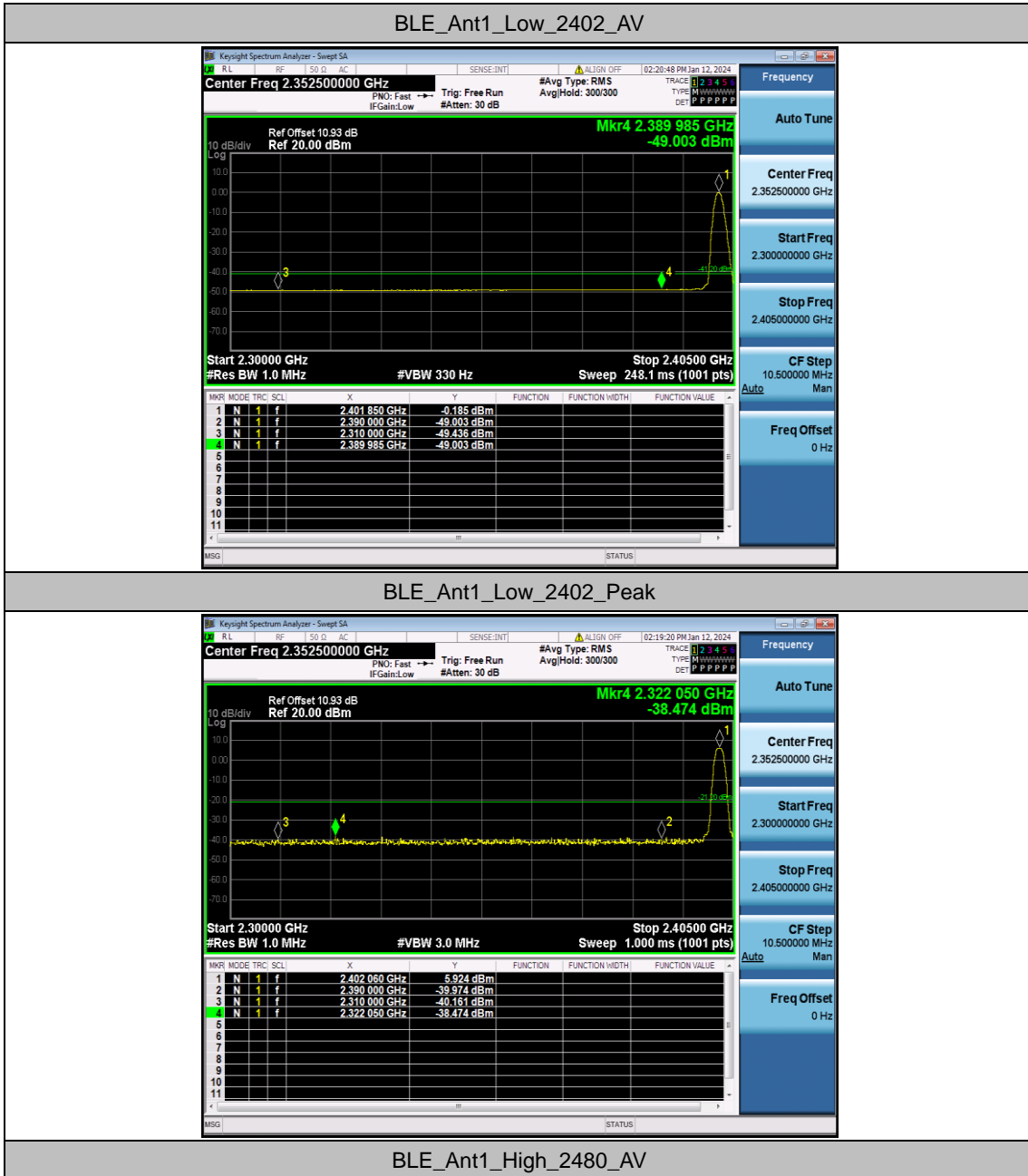
Test Result

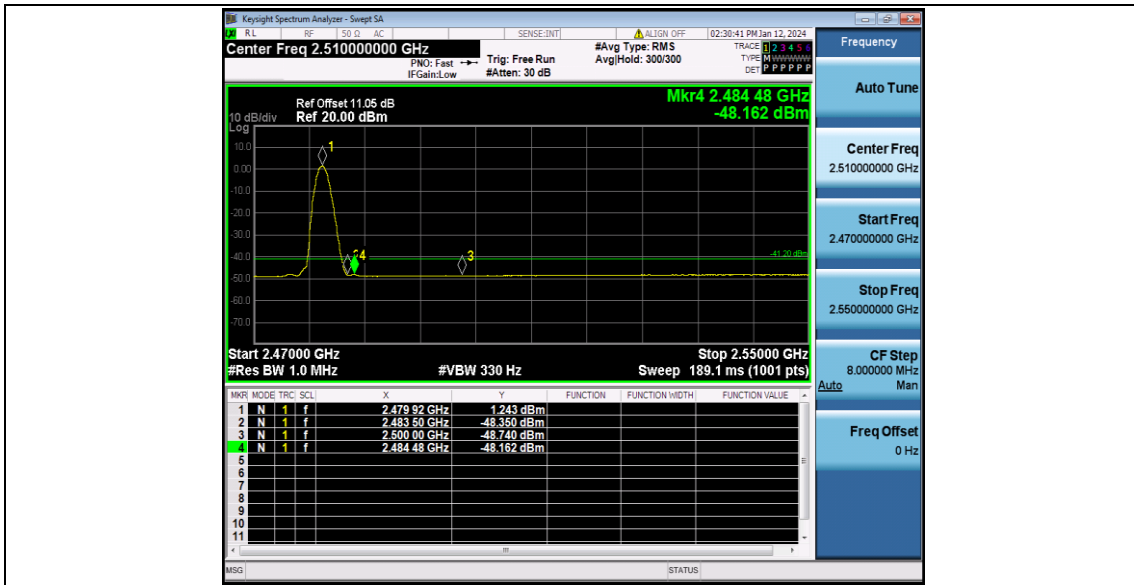
TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	Ant1	Low	2402	AV	2310.000	-49.44	≤-41.20	45.76	≤54	PASS
				AV	2389.985	-49	≤-41.20	46.20	≤54	PASS
				AV	2390.000	-49	≤-41.20	46.20	≤54	PASS
				Peak	2310.000	-40.16	≤-21.20	55.04	≤74	PASS
				Peak	2322.050	-38.47	≤-21.20	56.73	≤74	PASS
				Peak	2390.000	-39.97	≤-21.20	55.23	≤74	PASS
		High	2480	AV	2483.500	-48.35	≤-41.20	46.85	≤54	PASS
				AV	2484.480	-48.16	≤-41.20	47.04	≤54	PASS
				AV	2500.000	-48.74	≤-41.20	46.46	≤54	PASS
				Peak	2483.500	-41.34	≤-21.20	53.86	≤74	PASS
				Peak	2499.440	-37.73	≤-21.20	57.47	≤74	PASS
				Peak	2500.000	-40.69	≤-21.20	54.51	≤74	PASS

Note:

- The Antenna Gain is compensated in the graph.
- The Duty Cycle Factor and RBW Factor is compensated in the graph.
- 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

