

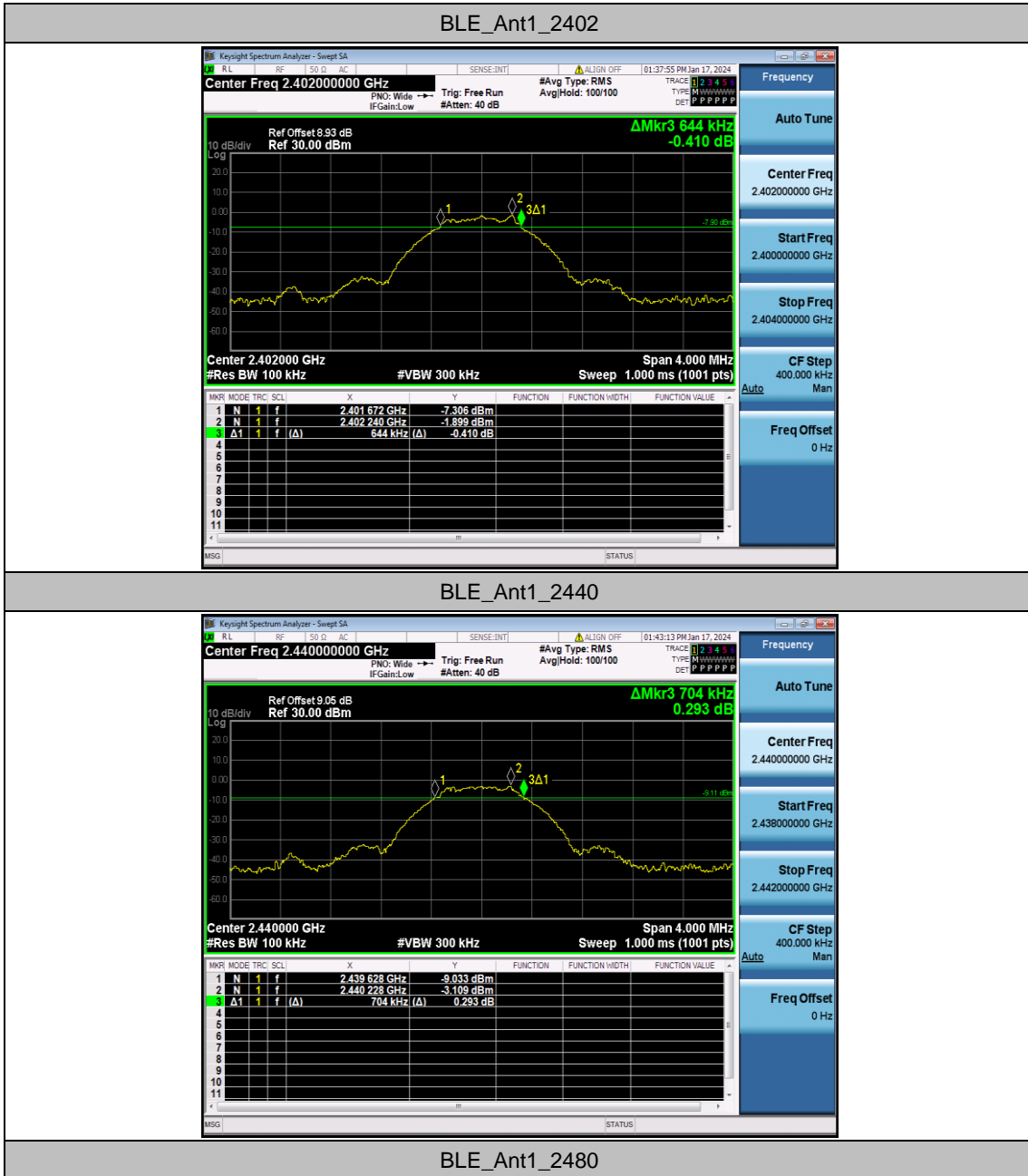
Case No. : <u>GTS20231222011-1-17</u>
Ambient Condition: <u>23 °C, 48 %RH</u>
According Standard: <u>■Part15C</u>
Test Date: <u>2024.1.16</u> Test Engineer: <u>Evan ouyang</u>

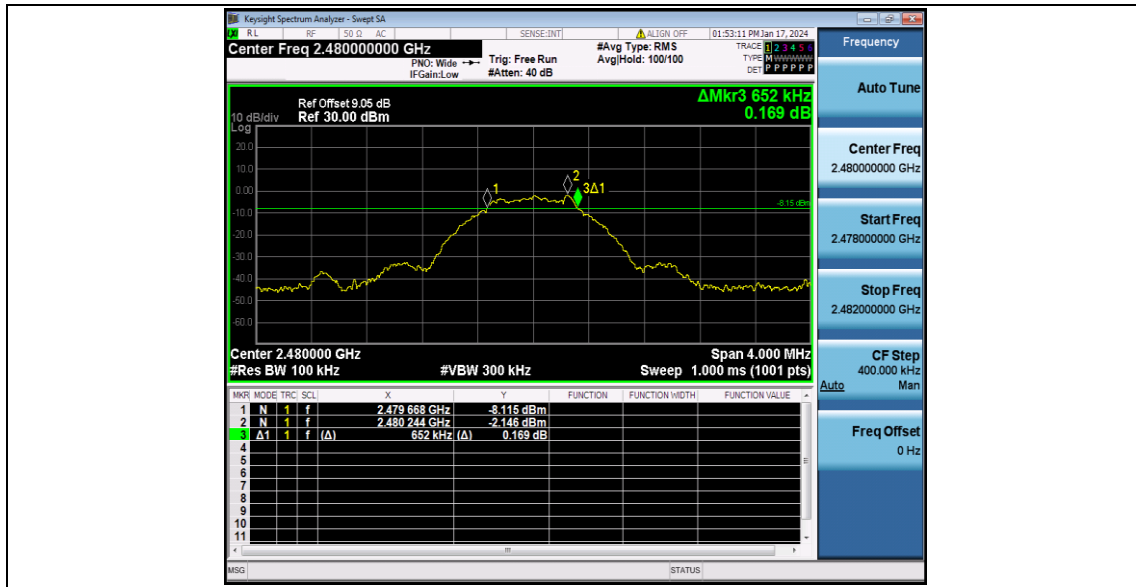
Appendix B.1: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.644	2401.672	2402.316	0.5	PASS
		2440	0.704	2439.628	2440.332	0.5	PASS
		2480	0.652	2479.668	2480.320	0.5	PASS

Test Graphs



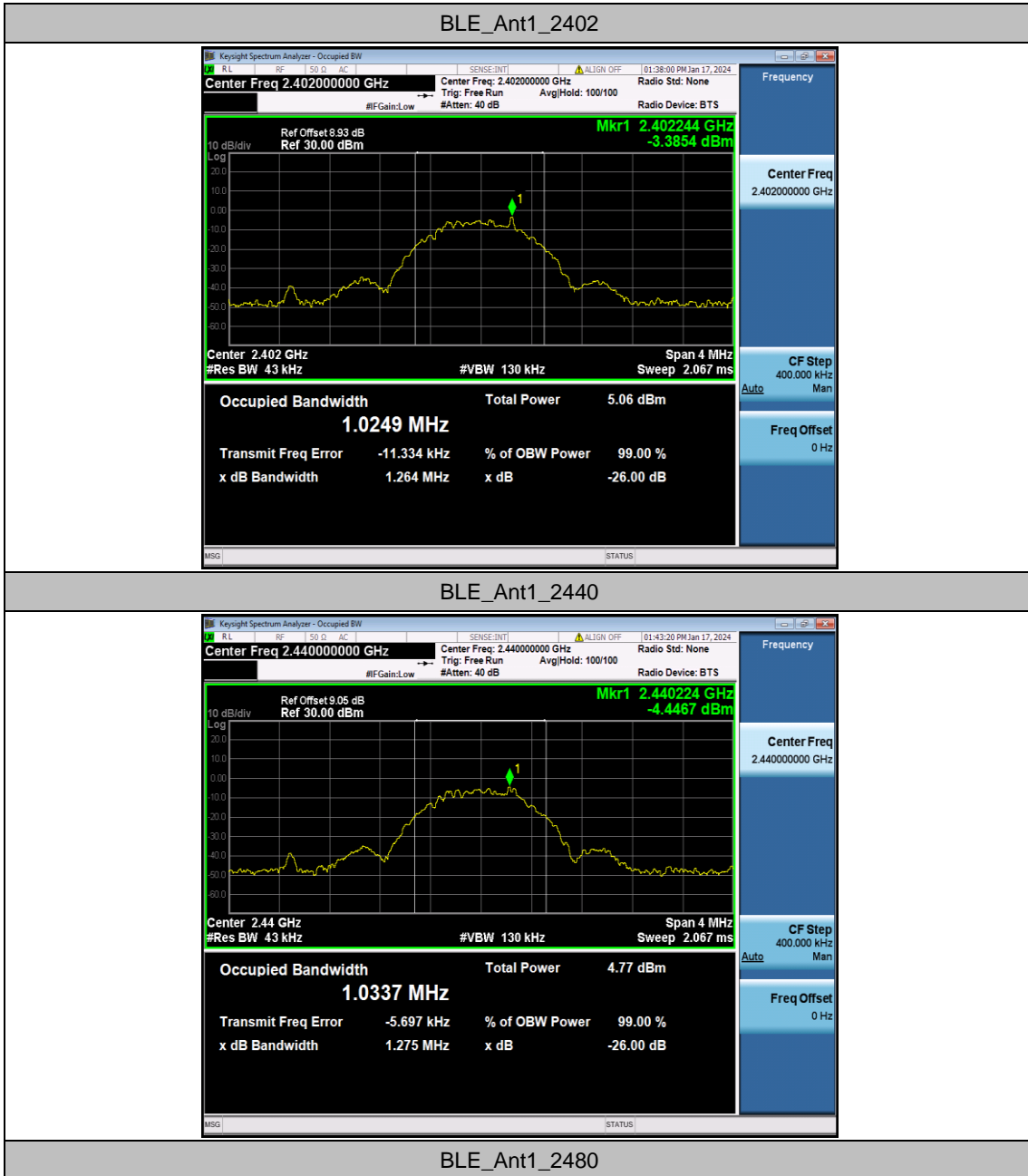


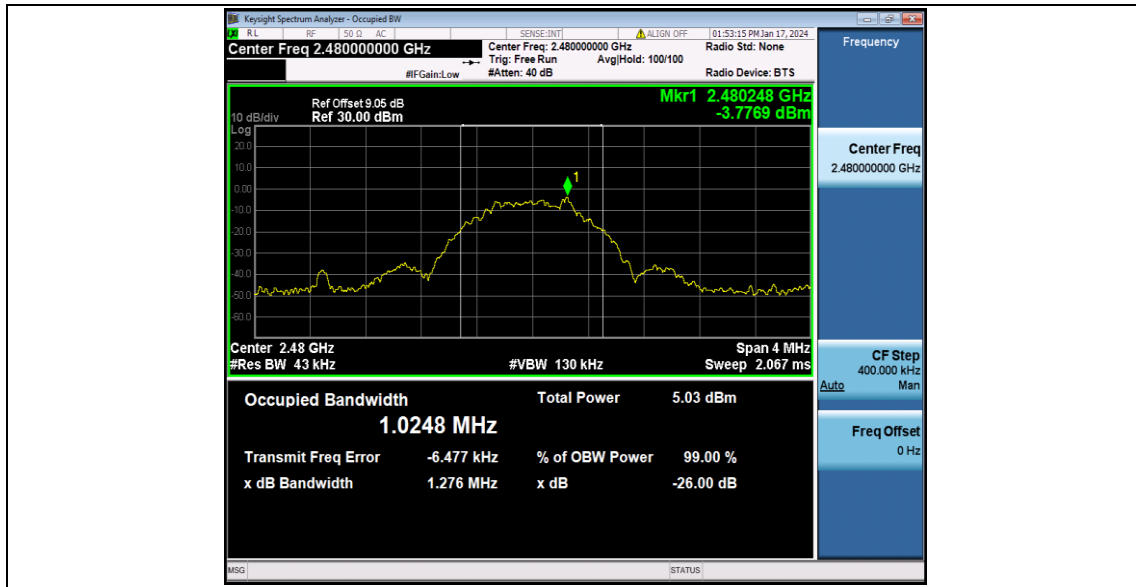
Appendix B.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0249	2401.4762	2402.5011	---	---
		2440	1.0337	2439.4775	2440.5112	---	---
		2480	1.0248	2479.4811	2480.5059	---	---

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	-1.51	≤30	PASS
		2440	-1.81	≤30	PASS
		2480	-1.72	≤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	-17.84	≤8.00	PASS
		2440	-18.16	≤8.00	PASS
		2480	-17.94	≤8.00	PASS

Note:

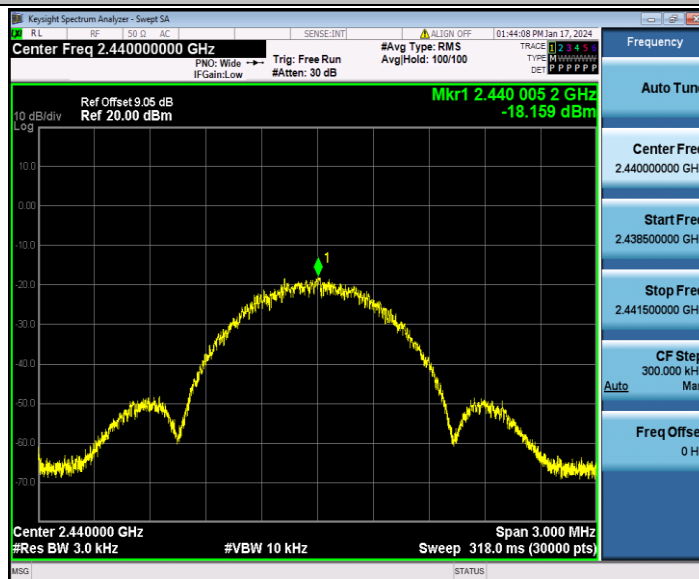
1. The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

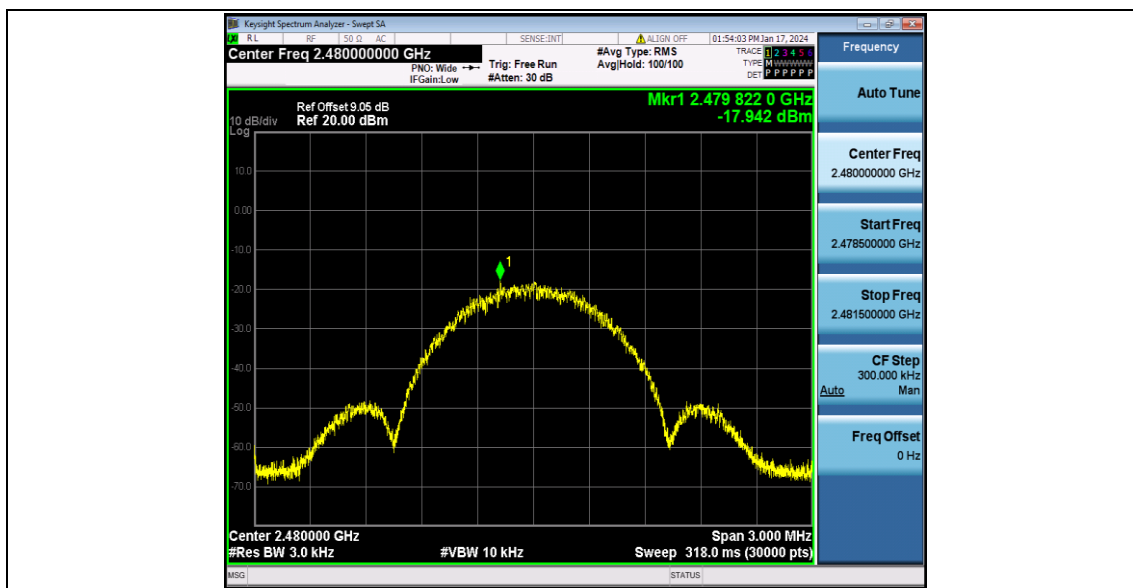
BLE_Ant1_2402



BLE_Ant1_2440



BLE_Ant1_2480

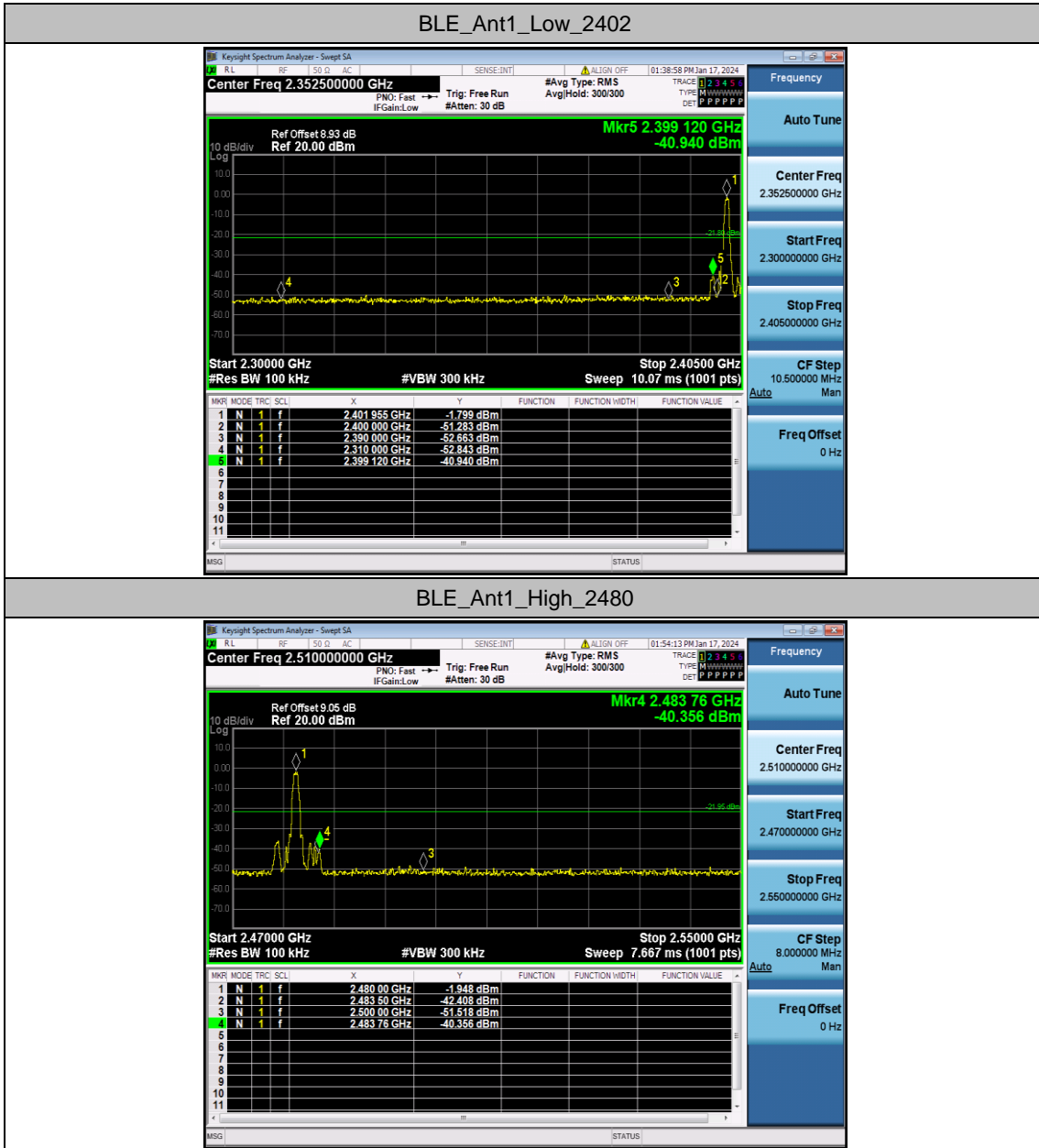


Appendix B.5: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	-1.80	-40.94	≤-21.8	PASS
		High	2480	-1.95	-40.36	≤-21.95	PASS

Test Graphs

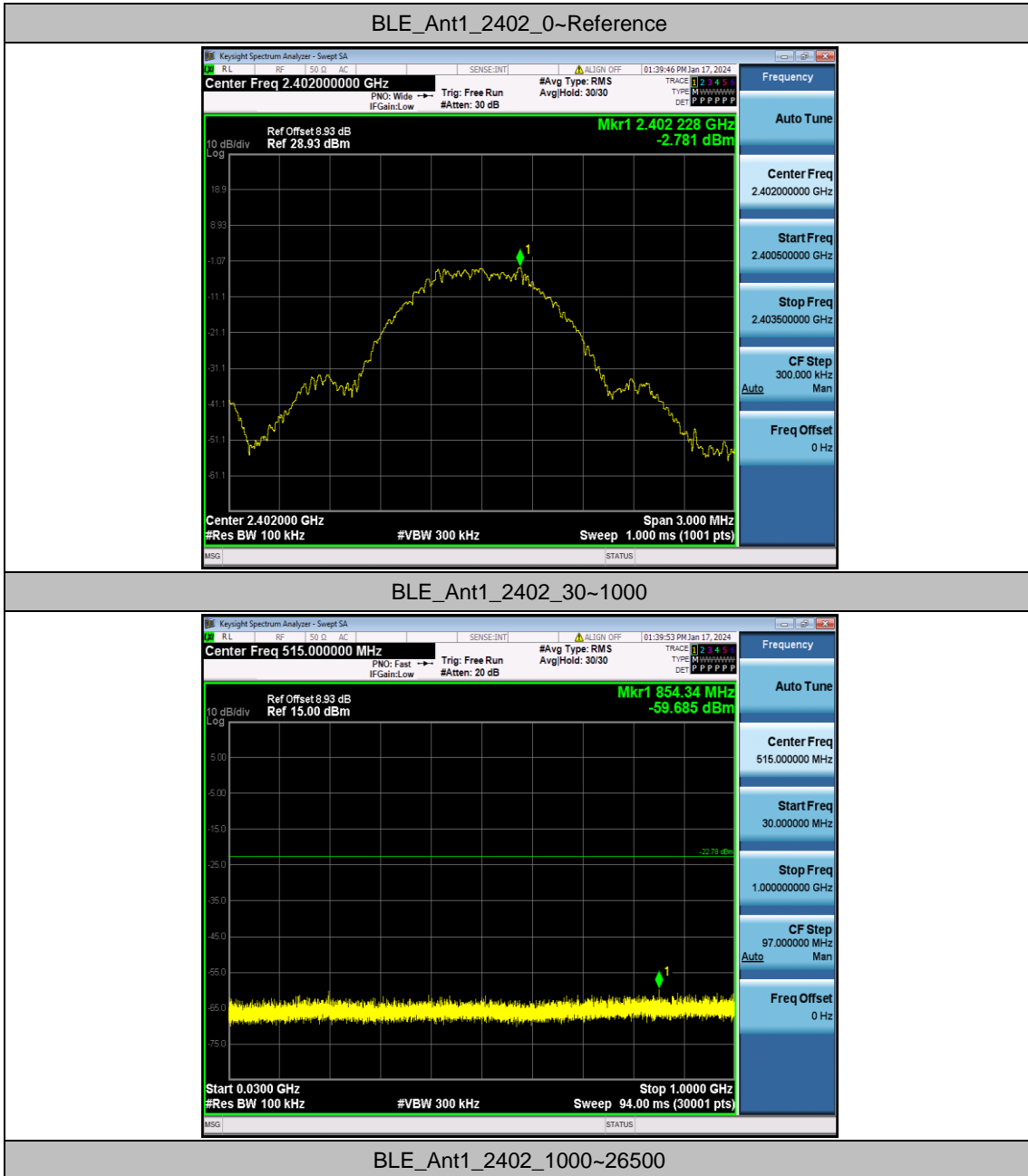


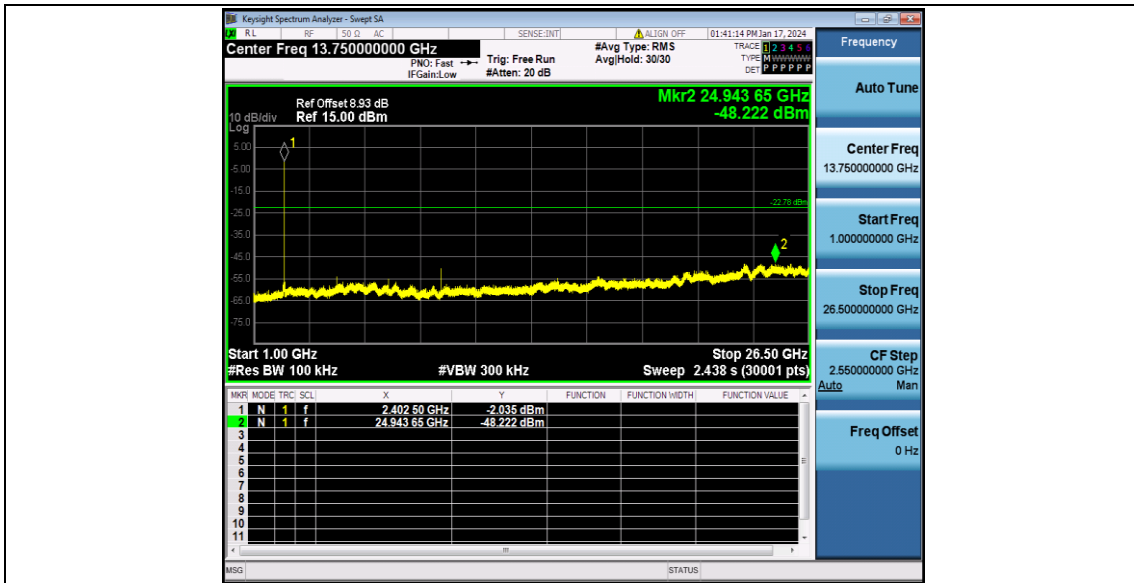
Appendix B.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	-2.78	-2.78	---	PASS
			30~1000	-2.78	-59.69	≤-22.78	PASS
			1000~26500	-2.78	-48.22	≤-22.78	PASS
		2440	Reference	-2.93	-2.93	---	PASS
			30~1000	-2.93	-59.87	≤-22.93	PASS
			1000~26500	-2.93	-47.52	≤-22.93	PASS
		2480	Reference	-2.77	-2.77	---	PASS
			30~1000	-2.77	-60.27	≤-22.77	PASS
			1000~26500	-2.77	-47.48	≤-22.77	PASS

Test Graphs

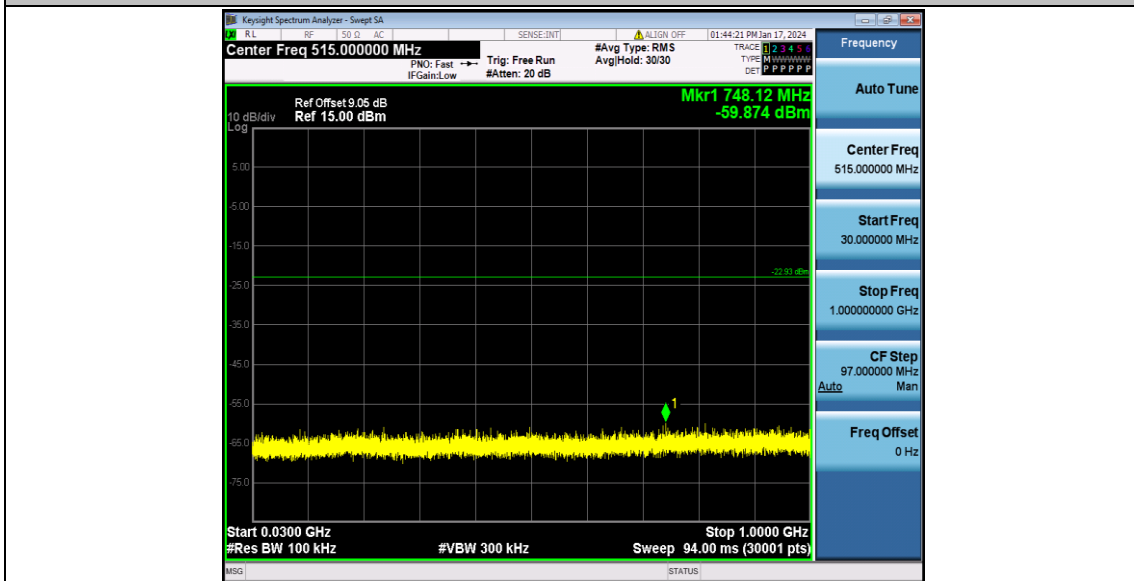




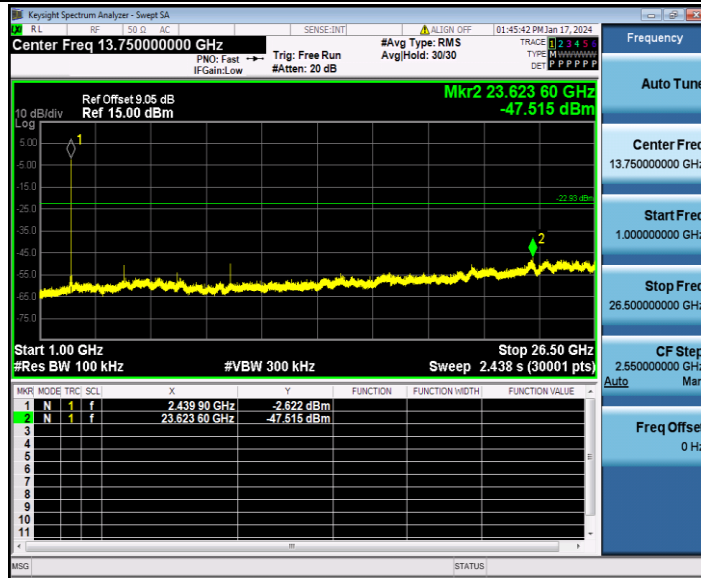
BLE_Ant1_2440_0-Reference



BLE_Ant1_2440_30-1000



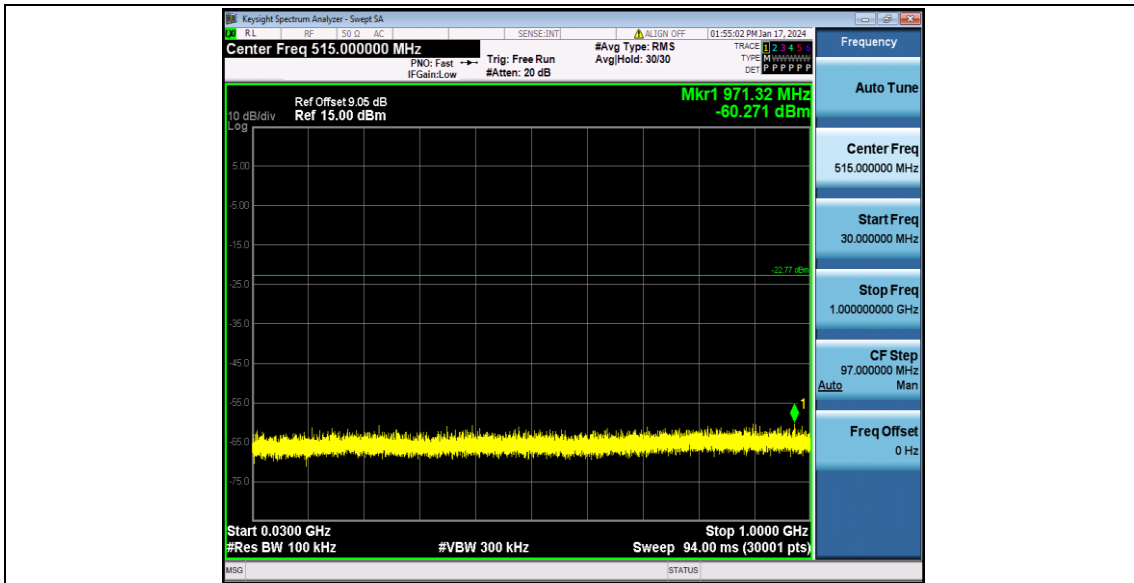
BLE_Ant1_2440_1000~26500



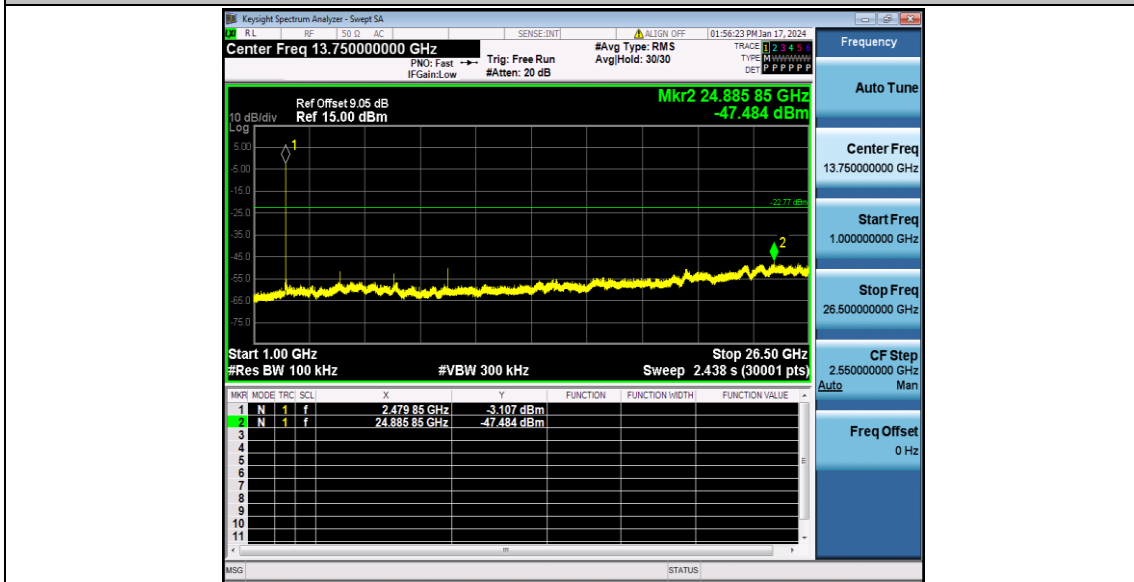
BLE_Ant1_2480_0~Reference



BLE_Ant1_2480_30~1000



BLE_Ant1_2480_1000~26500



Appendix B.7: Emissions in Restricted Bands

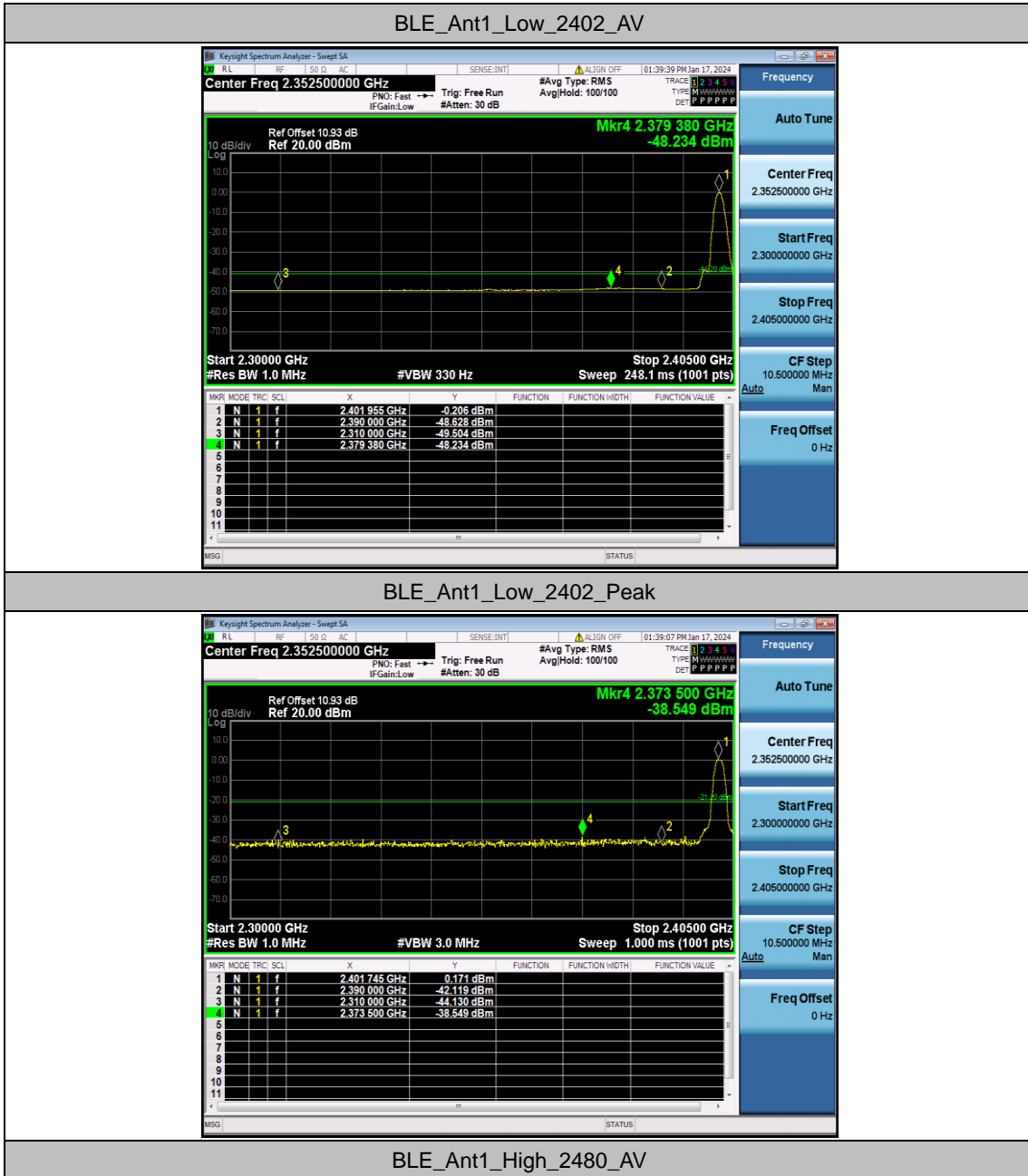
Test Result

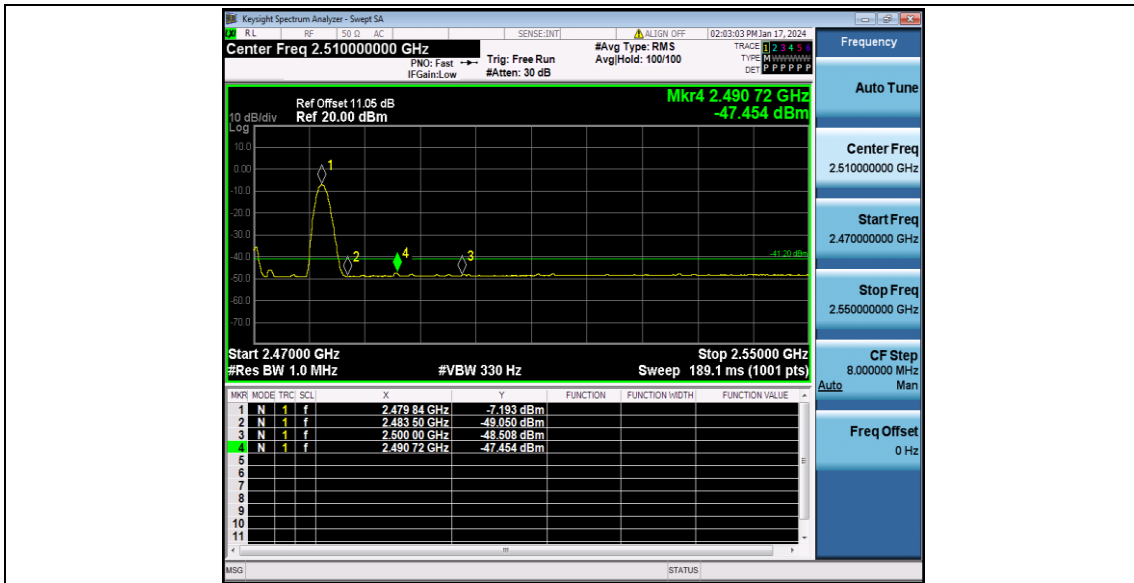
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	Ant1	Low	2402	AV	2310.000	-49.5	≤-41.20	45.70	≤54	PASS
				AV	2379.380	-48.23	≤-41.20	46.97	≤54	PASS
				AV	2390.000	-48.63	≤-41.20	46.57	≤54	PASS
				Peak	2310.000	-44.13	≤-21.20	51.07	≤74	PASS
				Peak	2373.500	-38.55	≤-21.20	56.65	≤74	PASS
				Peak	2390.000	-42.12	≤-21.20	53.08	≤74	PASS
		High	2480	AV	2483.500	-49.05	≤-41.20	46.15	≤54	PASS
				AV	2490.720	-47.45	≤-41.20	47.75	≤54	PASS
				AV	2500.000	-48.51	≤-41.20	46.69	≤54	PASS
				Peak	2483.500	-42.65	≤-21.20	52.55	≤74	PASS
				Peak	2499.280	-39.09	≤-21.20	56.11	≤74	PASS
				Peak	2500.000	-42.29	≤-21.20	52.91	≤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

