

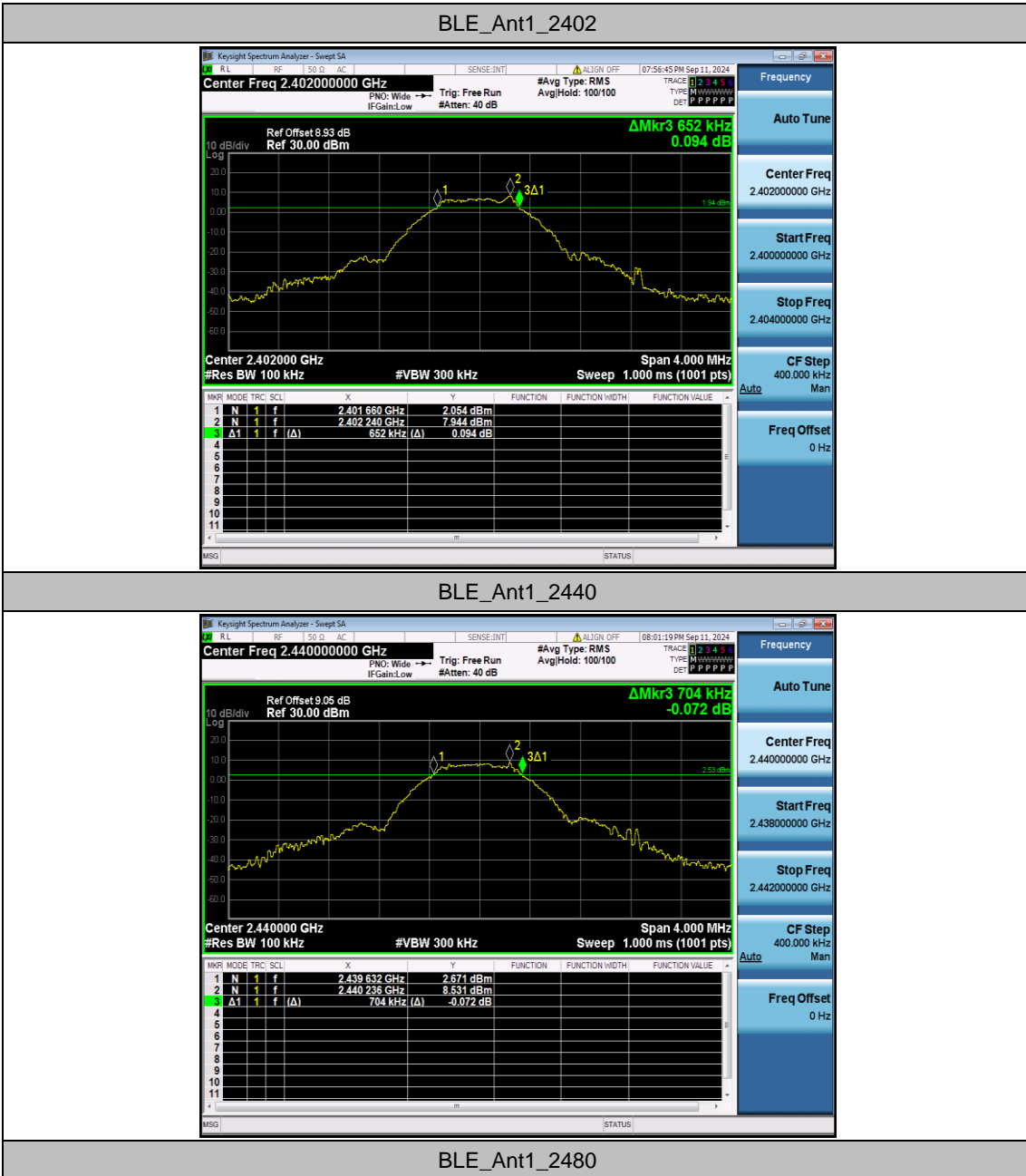
<b>Case No. :</b> <u>CTA24103100102</u>
<b>Ambient Condition:</b> <u>23</u> °C, <u>54</u> %RH
<b>According Standard:</b> ■Part15C
<b>Test Date:</b> <u>2024.9.6</u> <b>Test Engineer:</b> <u>Lushan Kong</u>

## Appendix B.1: DTS Bandwidth

### Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.652	2401.660	2402.312	0.5	PASS
		2440	0.704	2439.632	2440.336	0.5	PASS
		2480	0.668	2479.644	2480.312	0.5	PASS

## Test Graphs





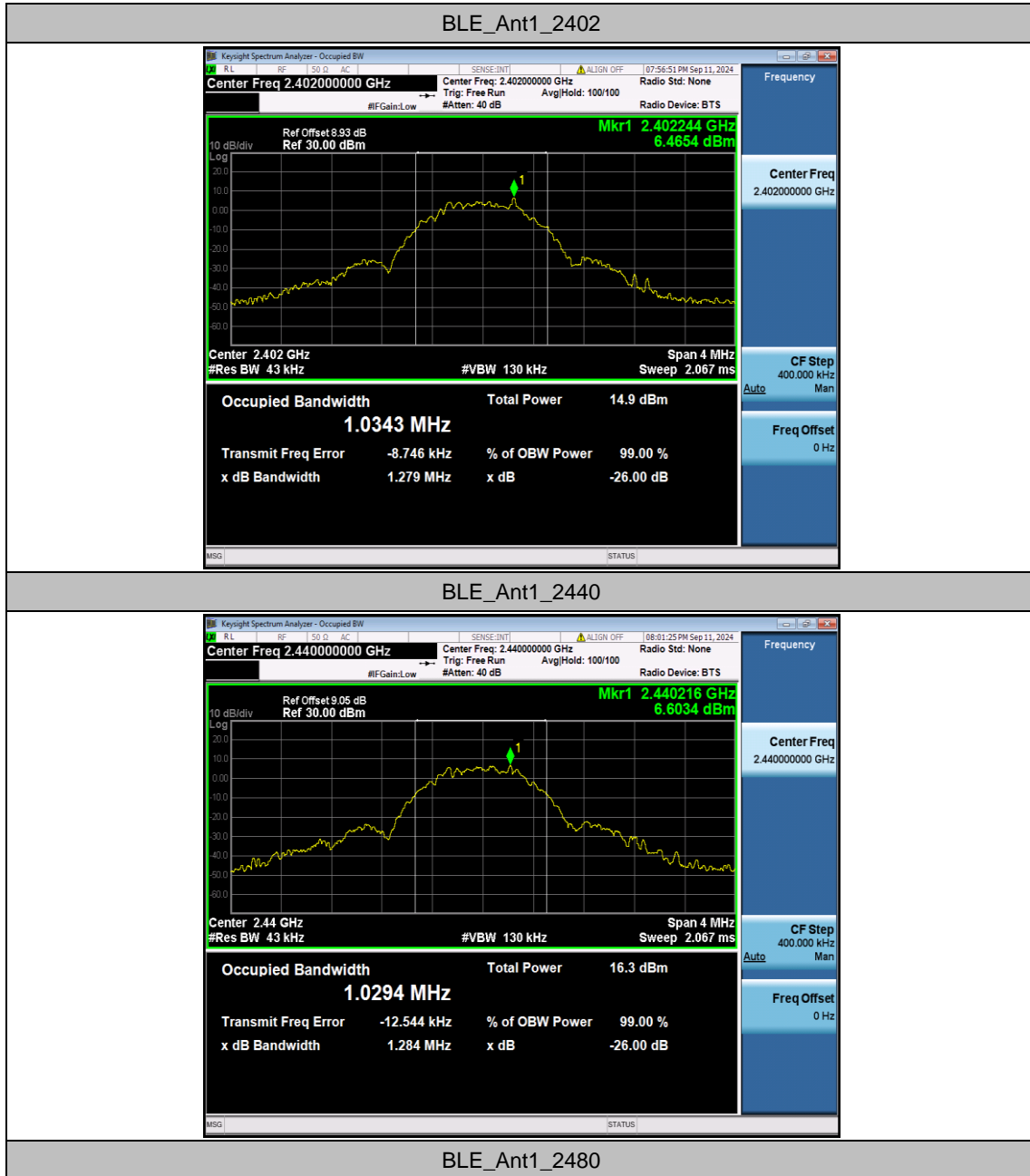
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## Appendix B.2: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0343	2401.4741	2402.5084	---	---
		2440	1.0294	2439.4728	2440.5022	---	---
		2480	1.0294	2479.4708	2480.5002	---	---

## Test Graphs





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## 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	8.31	≤30	PASS
		2440	9.70	≤30	PASS
		2480	9.37	≤30	PASS

## Appendix B.4: Maximum power spectral density

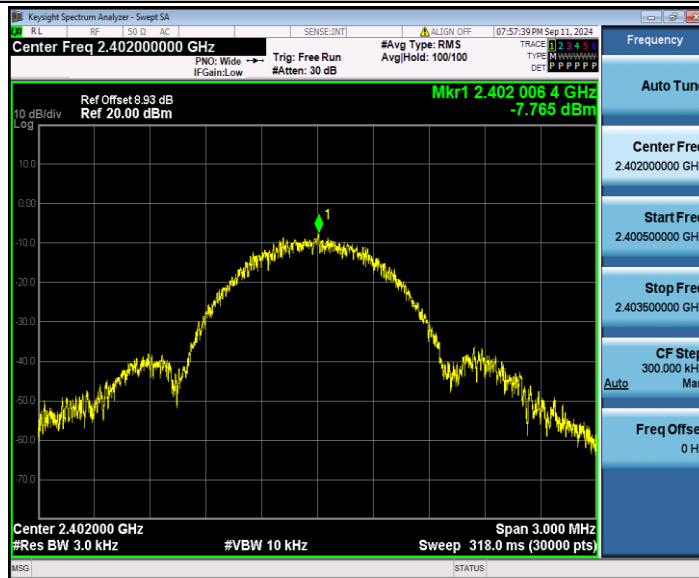
### Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-7.77	≤8.00	PASS
		2440	-6.35	≤8.00	PASS
		2480	-6.63	≤8.00	PASS

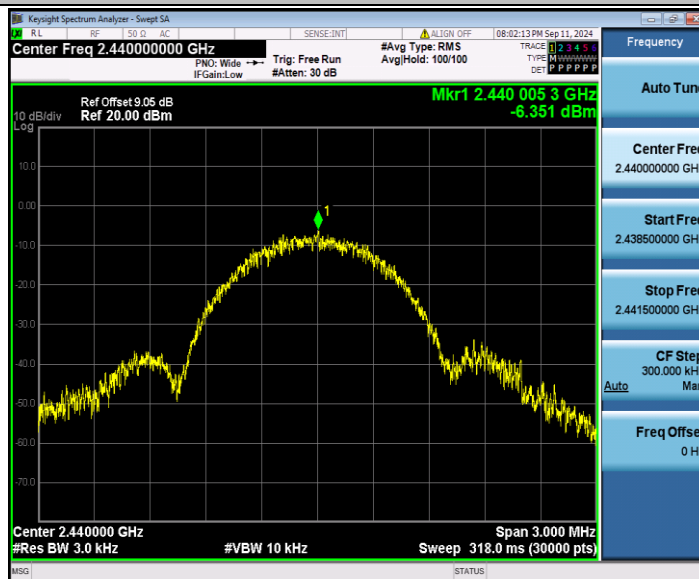


## Test Graphs

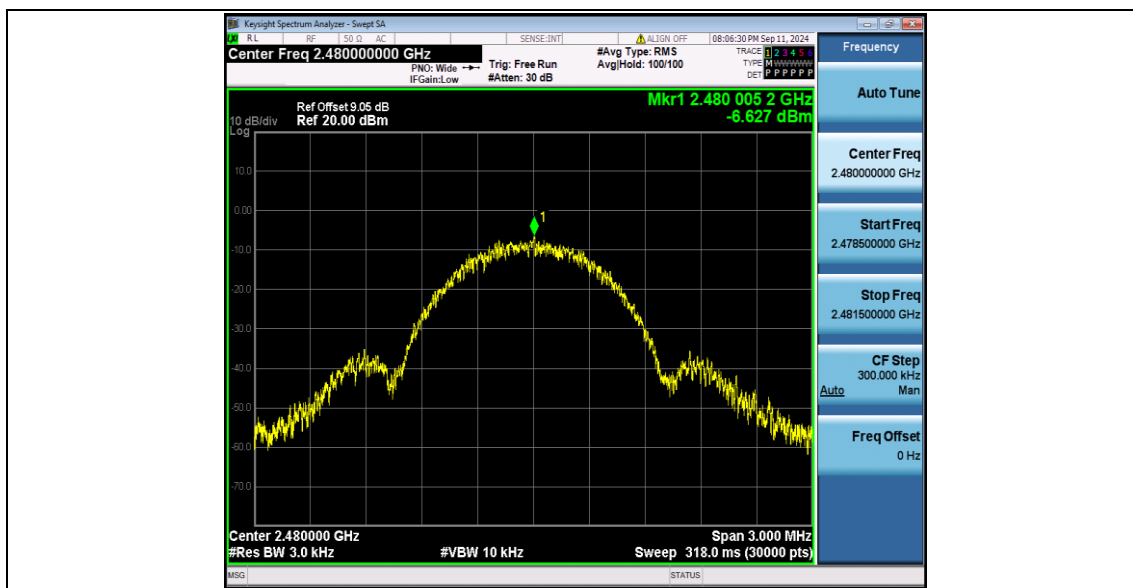
BLE\_Ant1\_2402



BLE\_Ant1\_2440



BLE\_Ant1\_2480

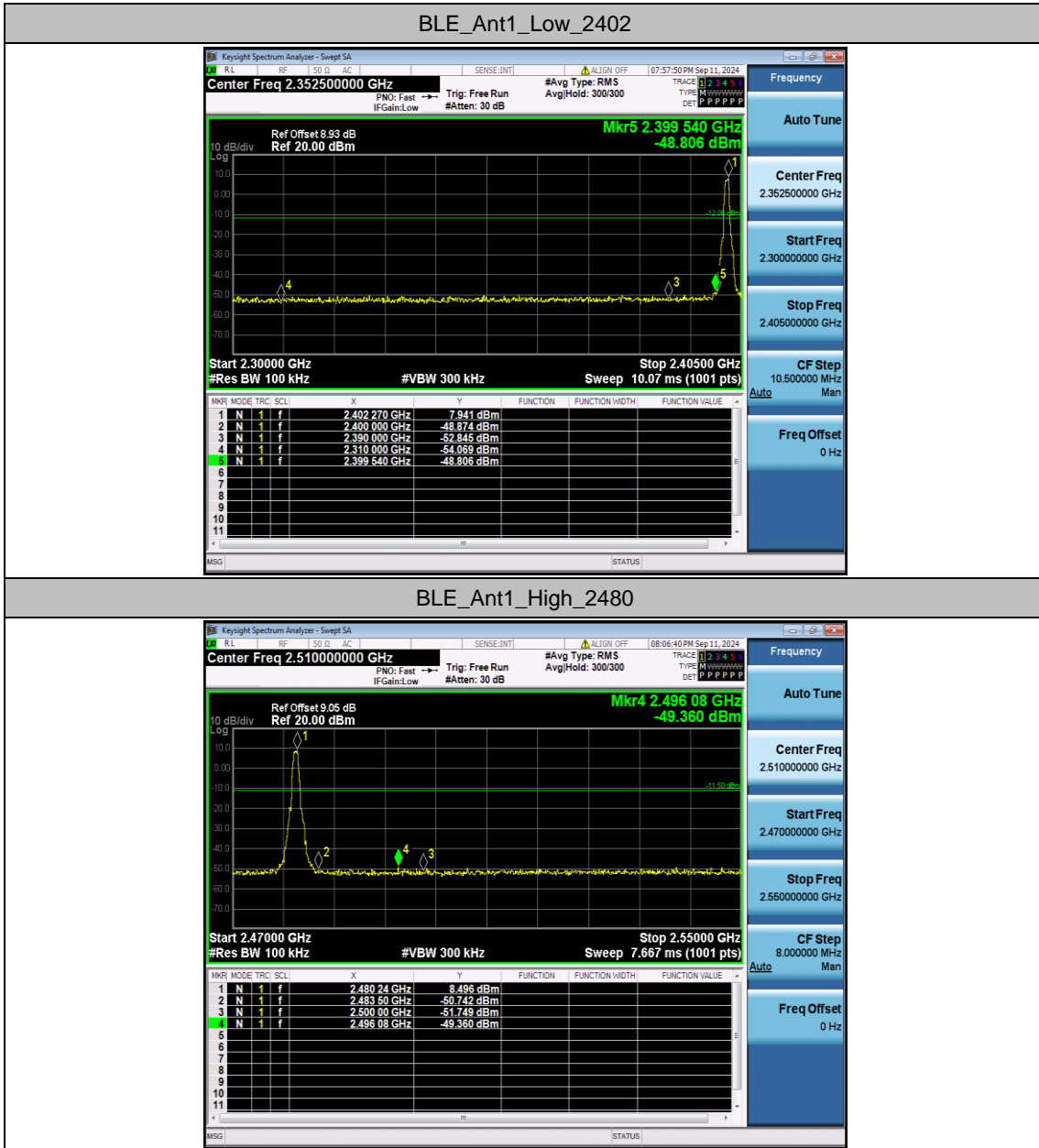


## Appendix B.5: Band edge measurements

### Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	7.94	-48.81	≤-12.06	PASS
		High	2480	8.50	-49.36	≤-11.5	PASS

## Test Graphs

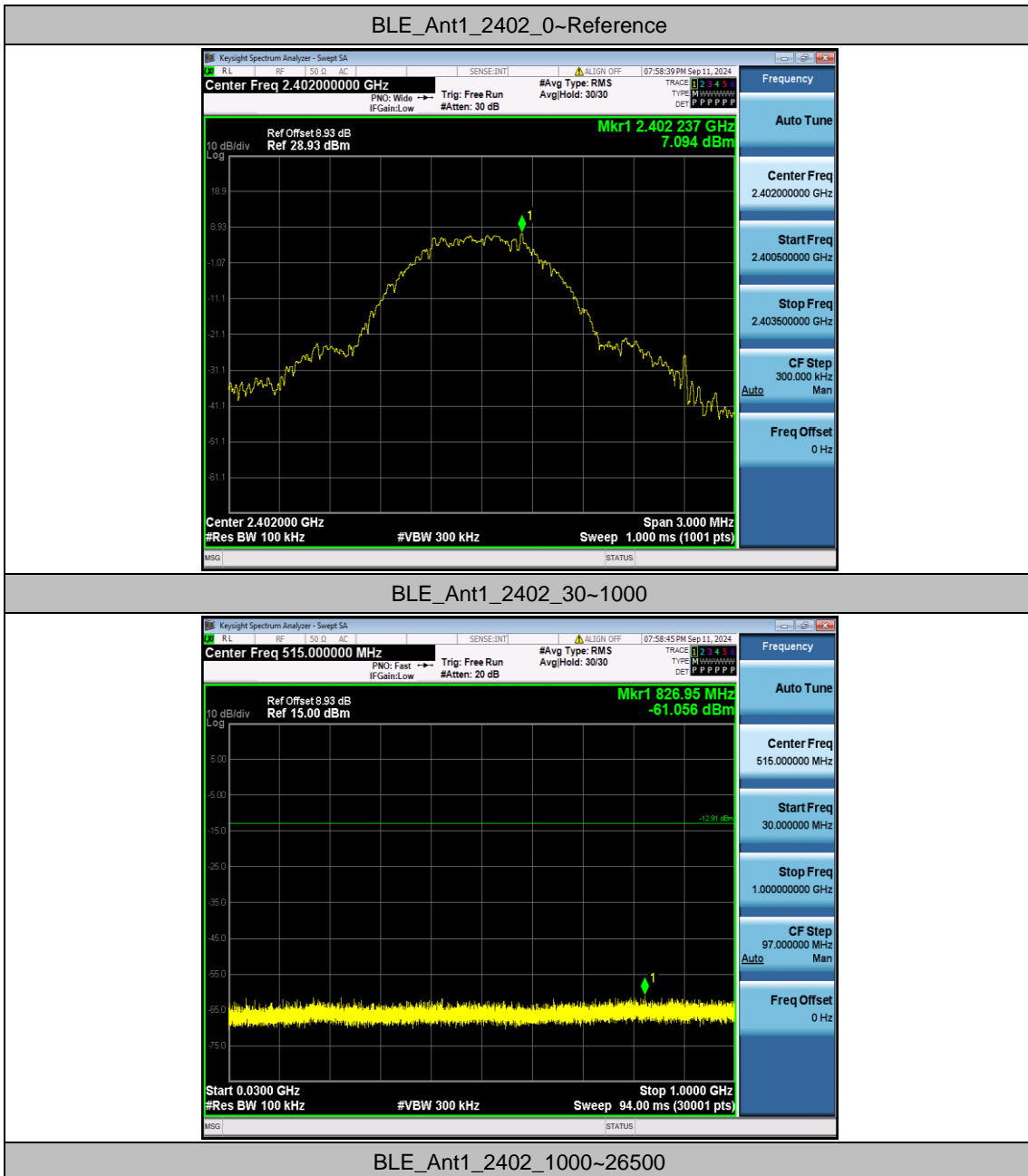


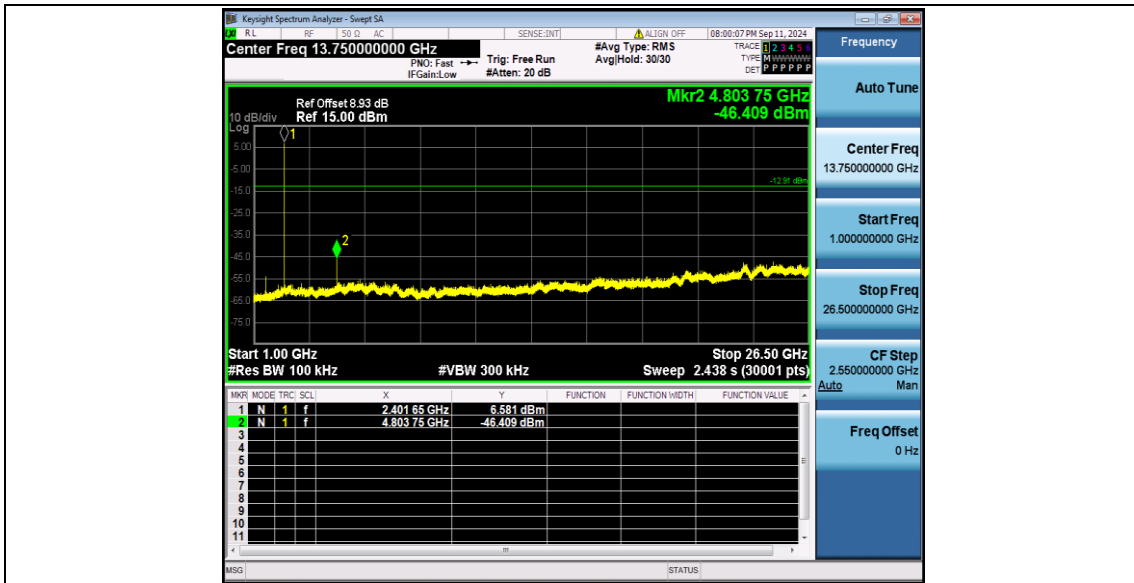
## Appendix B.6: Conducted Spurious Emission

### Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	7.09	7.09	---	PASS
			30~1000	7.09	-61.06	≤-12.91	PASS
			1000~26500	7.09	-46.41	≤-12.91	PASS
		2440	Reference	7.93	7.93	---	PASS
			30~1000	7.93	-60.45	≤-12.07	PASS
			1000~26500	7.93	-47.74	≤-12.07	PASS
		2480	Reference	8.24	8.24	---	PASS
			30~1000	8.24	-60.79	≤-11.76	PASS
			1000~26500	8.24	-47.71	≤-11.76	PASS

## Test Graphs

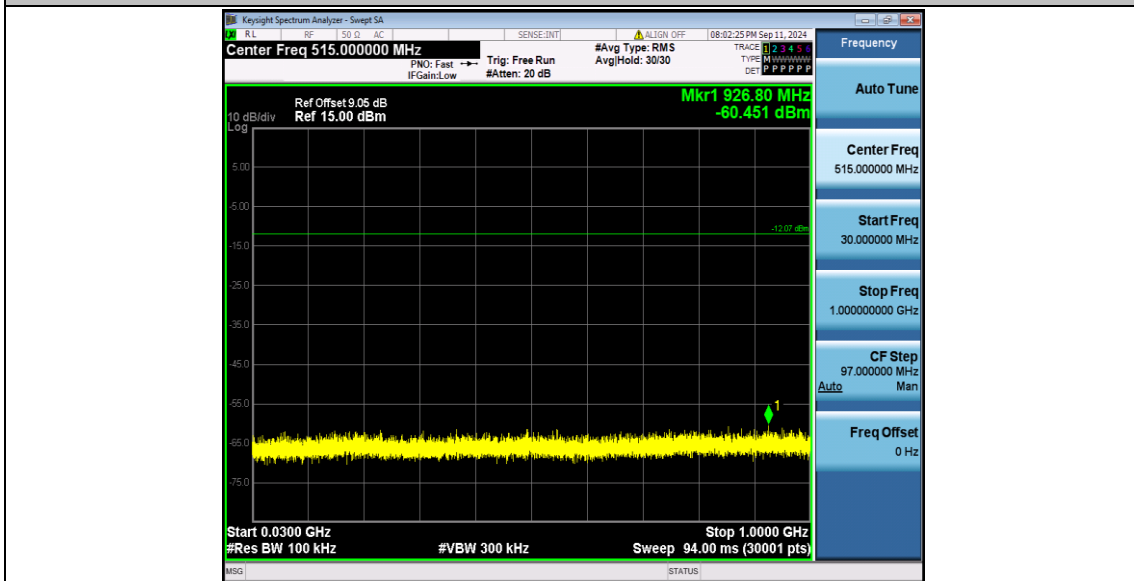




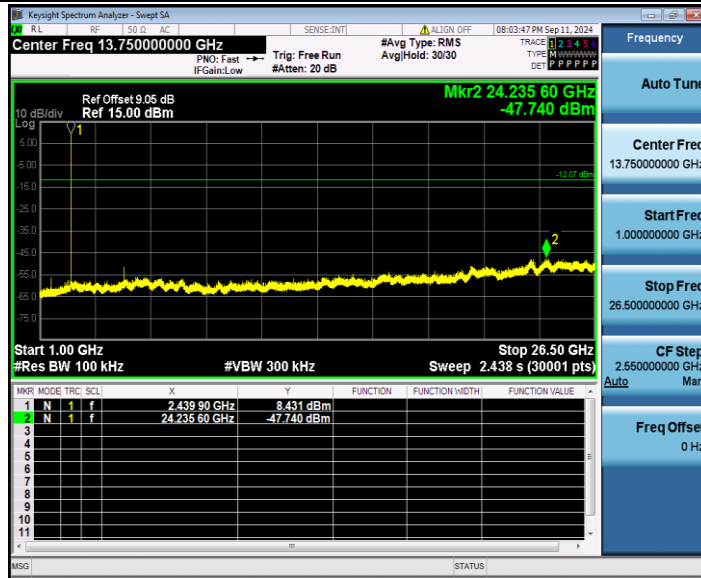
BLE\_Ant1\_2440\_0-Reference



BLE\_Ant1\_2440\_30-1000



BLE\_Ant1\_2440\_1000~26500

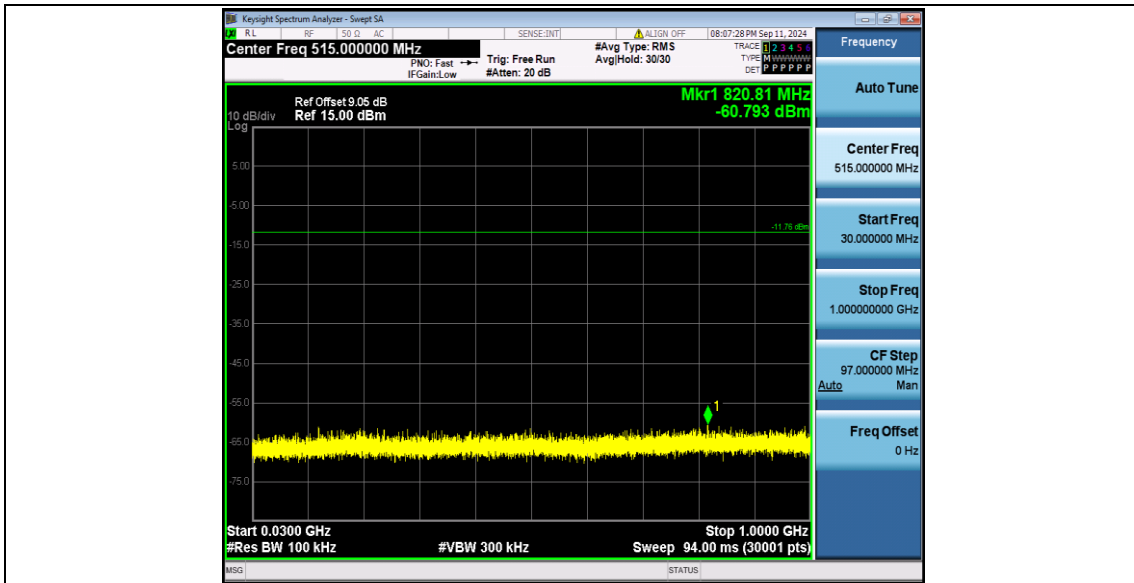


BLE\_Ant1\_2480\_0~Reference

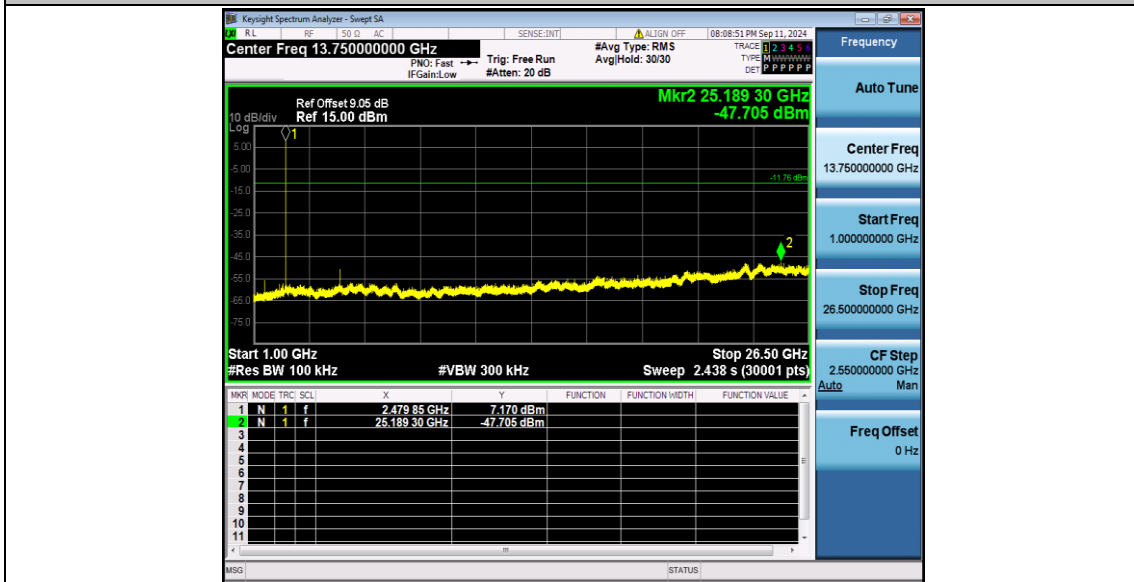


BLE\_Ant1\_2480\_30~1000





BLE\_Ant1\_2480\_1000~26500



## Appendix B.7: Emissions in Restricted Bands

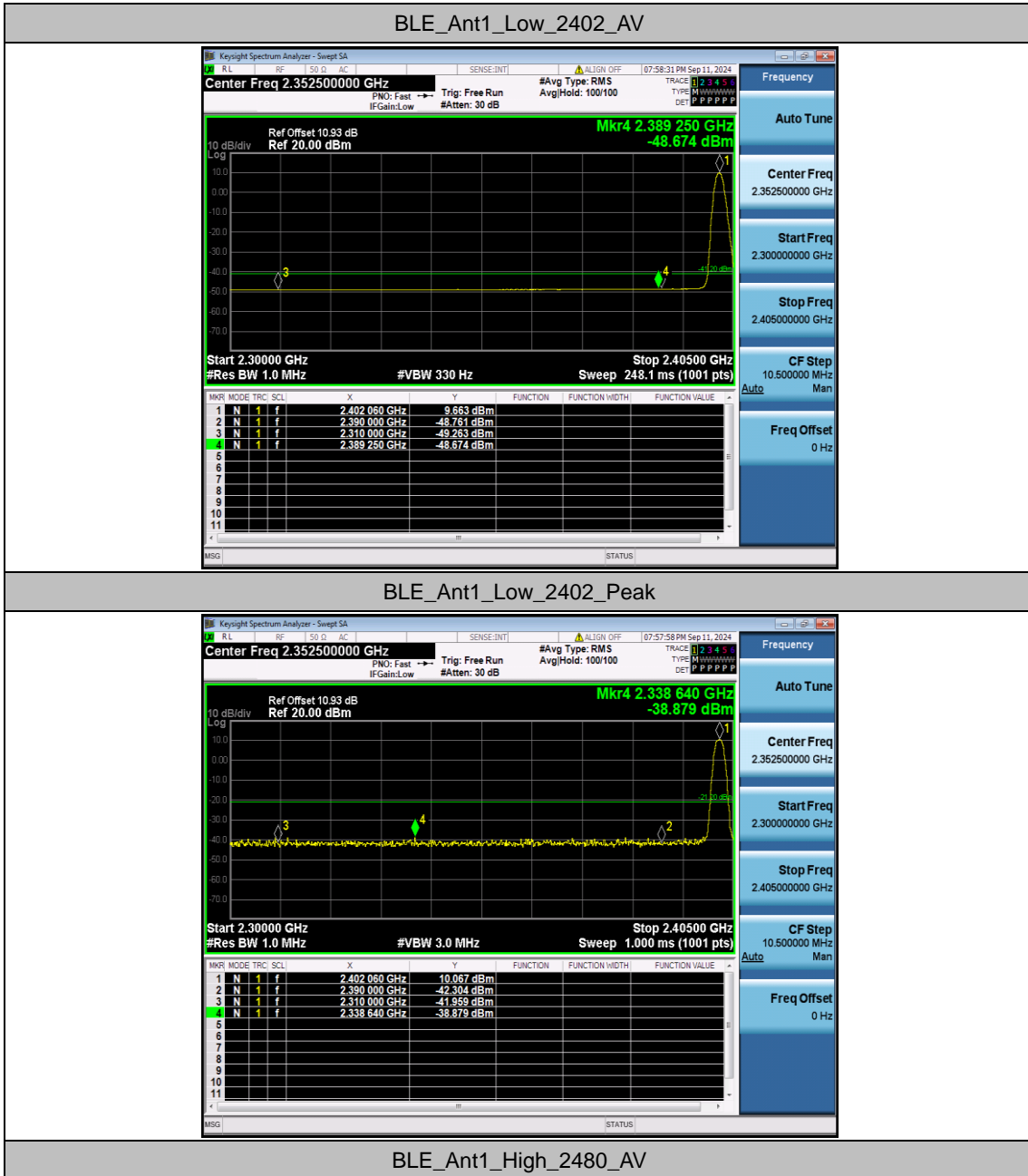
### Test Result

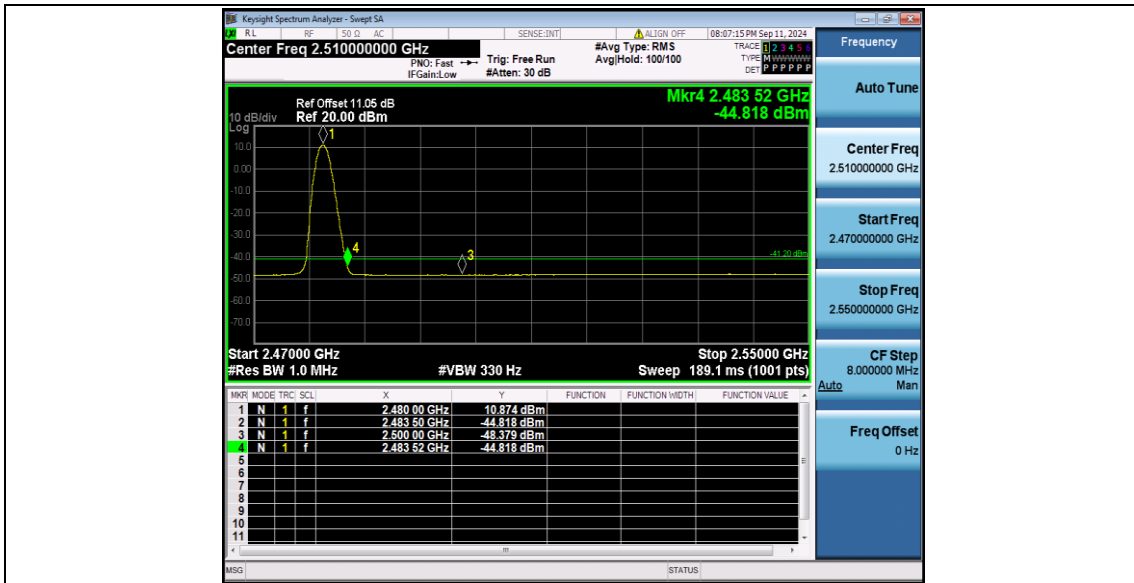
TestMode	Antenna	ChName	Freq(MHz )	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	Ant1	Low	2402	AV	2310.000	-49.26	≤-41.20	45.94	≤54	PASS
				AV	2389.250	-48.67	≤-41.20	46.53	≤54	PASS
				AV	2390.000	-48.76	≤-41.20	46.44	≤54	PASS
				Peak	2310.000	-41.96	≤-21.20	53.24	≤74	PASS
				Peak	2338.640	-38.88	≤-21.20	56.32	≤74	PASS
				Peak	2390.000	-42.3	≤-21.20	52.90	≤74	PASS
		High	2480	AV	2483.500	-44.82	≤-41.20	50.38	≤54	PASS
				AV	2483.520	-44.82	≤-41.20	50.38	≤54	PASS
				AV	2500.000	-48.38	≤-41.20	46.82	≤54	PASS
				Peak	2483.500	-40.7	≤-21.20	54.50	≤74	PASS
				Peak	2495.760	-38.41	≤-21.20	56.79	≤74	PASS
				Peak	2500.000	-39.69	≤-21.20	55.51	≤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\_Ant1\_High\_2480\_Peak

