

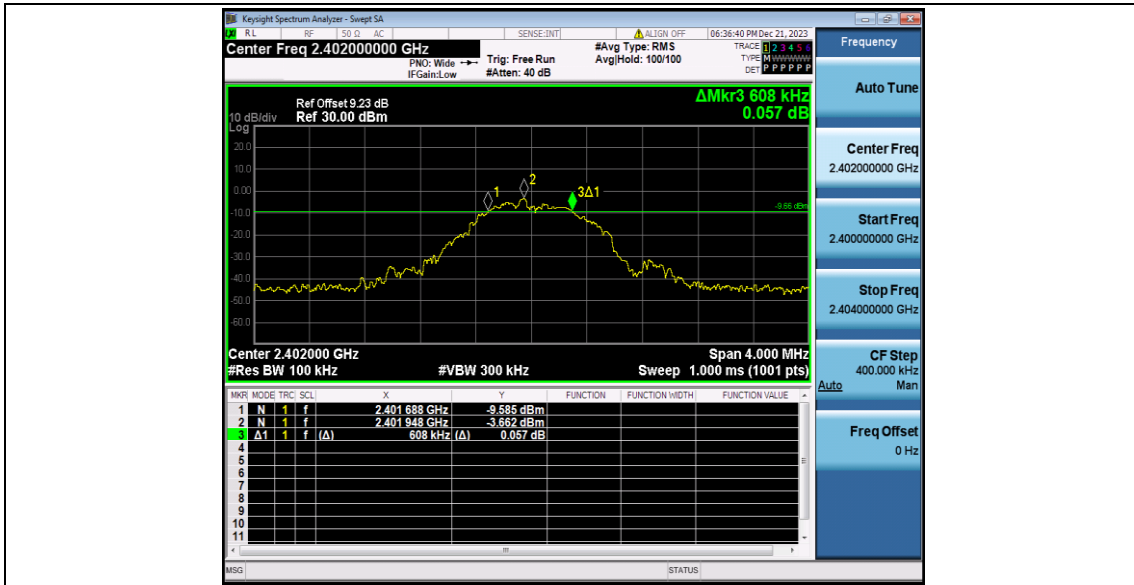
Case No. : <u>GTS20231113021-1-2</u>
Ambient Condition: <u>23</u> °C, <u>48</u> %RH, Atmos100.1Kpa,
Test Date: <u>2023.11.27</u> Test Engineer: <u>Evan ouyang</u>

Appendix A.1: DTS Bandwidth

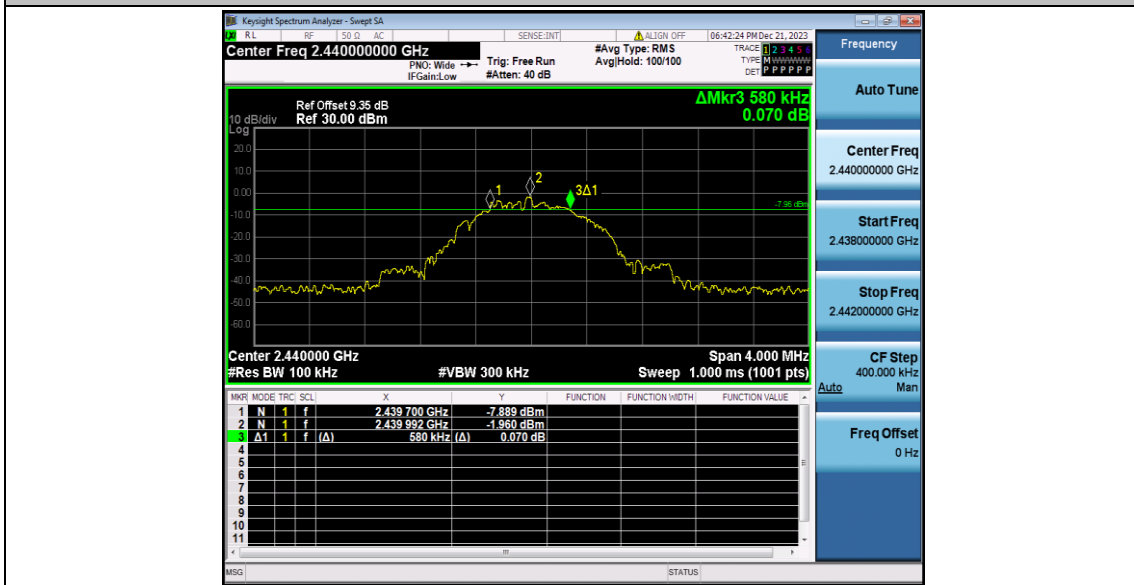
Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.608	2401.688	2402.296	0.5	PASS
		2440	0.580	2439.700	2440.280	0.5	PASS
		2480	0.608	2479.664	2480.272	0.5	PASS

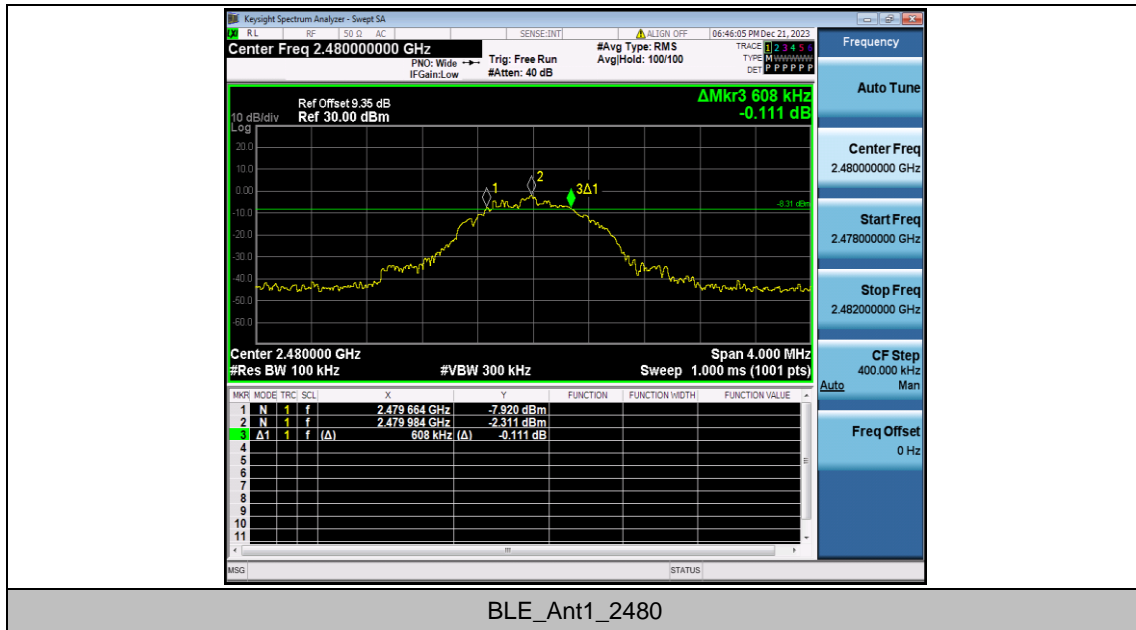
Test Graphs



BLE_Ant1_2402



BLE_Ant1_2440



Appendix A.2: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0459	2401.483	2402.529	---	---
		2440	1.0317	2439.484	2440.516	---	---
		2480	1.0291	2479.488	2480.517	---	---

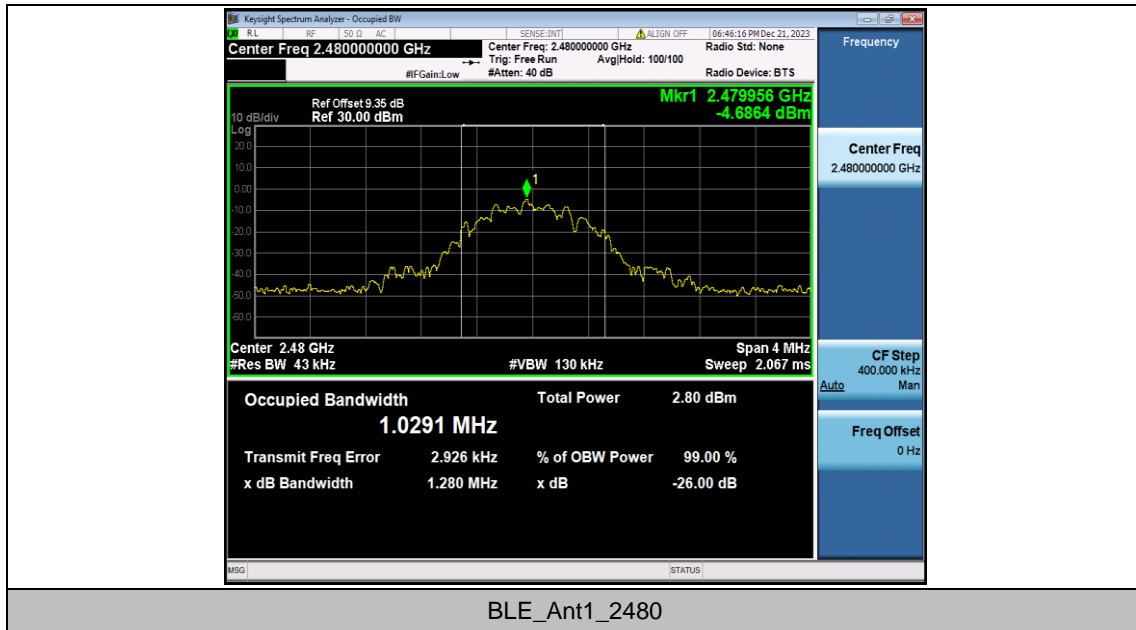
Test Graphs



BLE_Ant1_2402



BLE_Ant1_2440



BLE_Ant1_2480

Appendix A.3: Maximum conducted output power

Test Result Peak

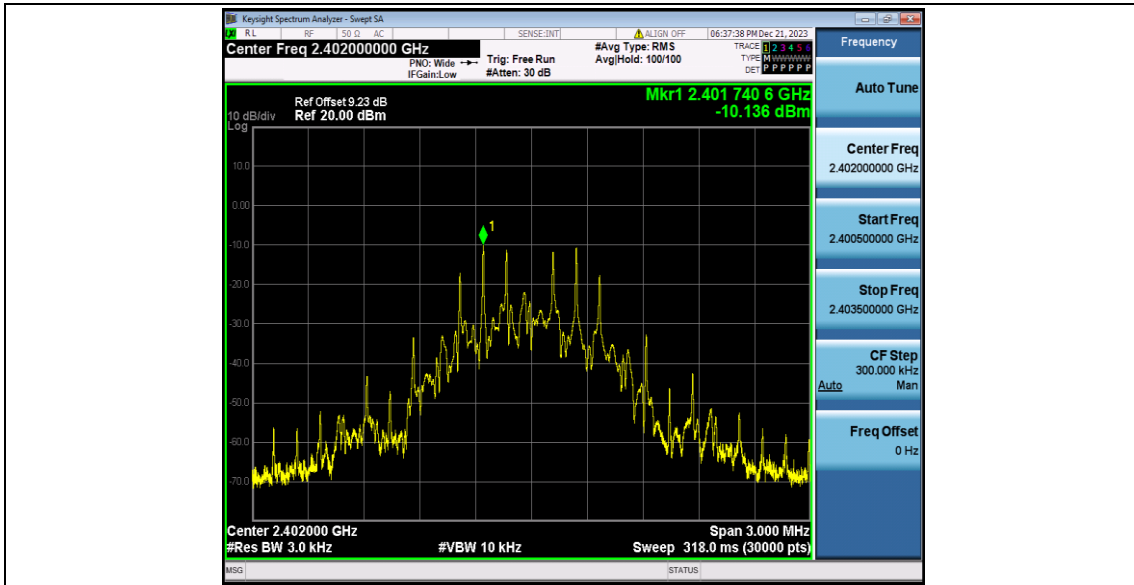
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	-1.73	≤30	PASS
		2440	-0.93	≤30	PASS
		2480	-1.3	≤30	PASS

Appendix A.4: Maximum power spectral density

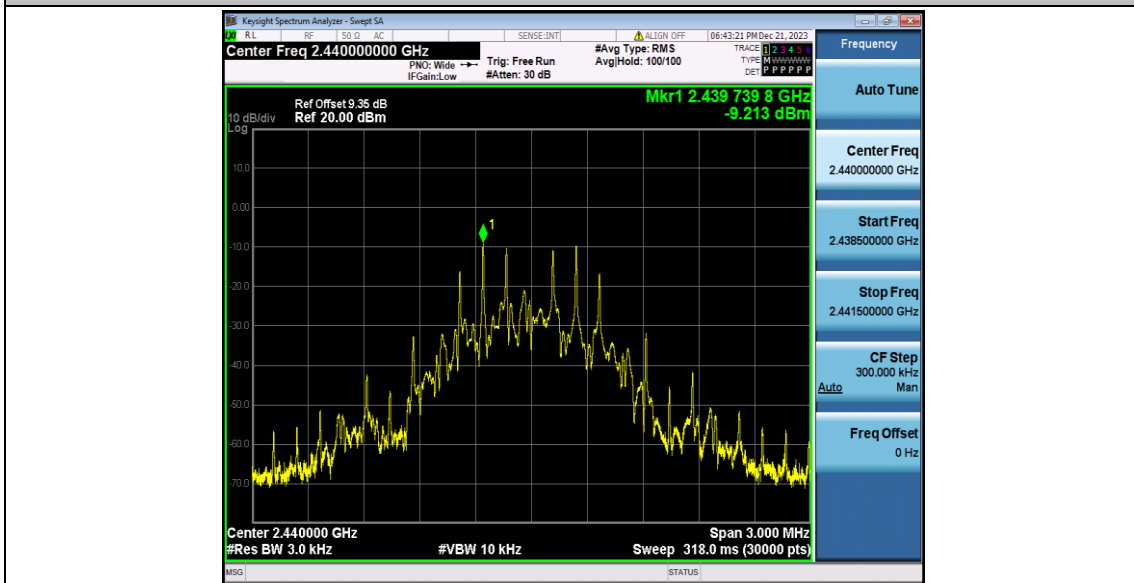
Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-10.14	≤8.00	PASS
		2440	-9.21	≤8.00	PASS
		2480	-9.61	≤8.00	PASS

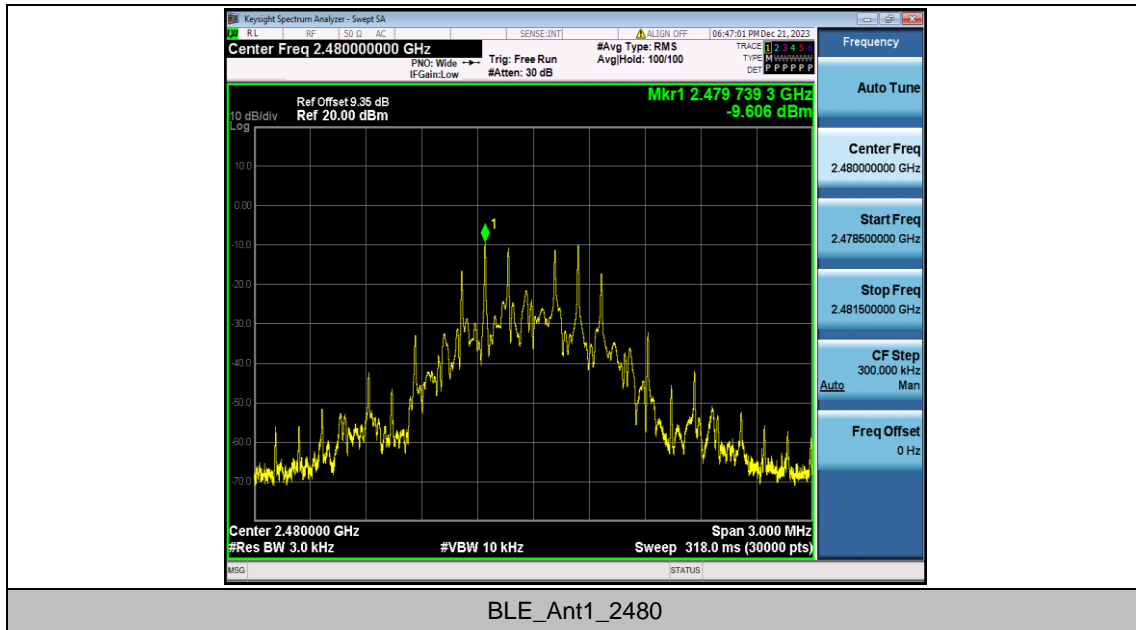
Test Graphs



BLE_Ant1_2402



BLE_Ant1_2440

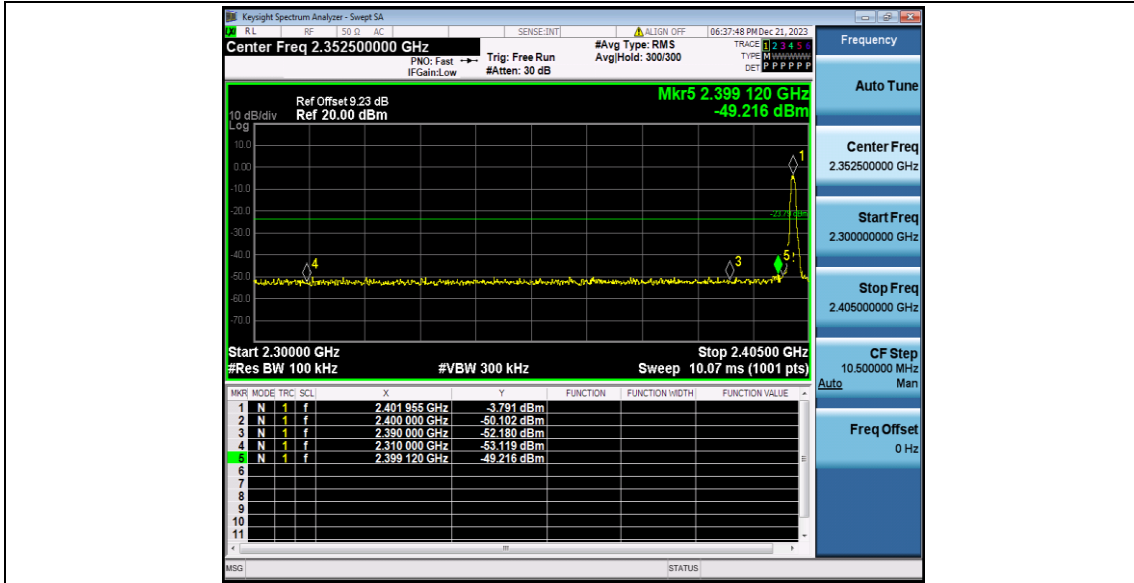


Appendix A.5: Band edge measurements

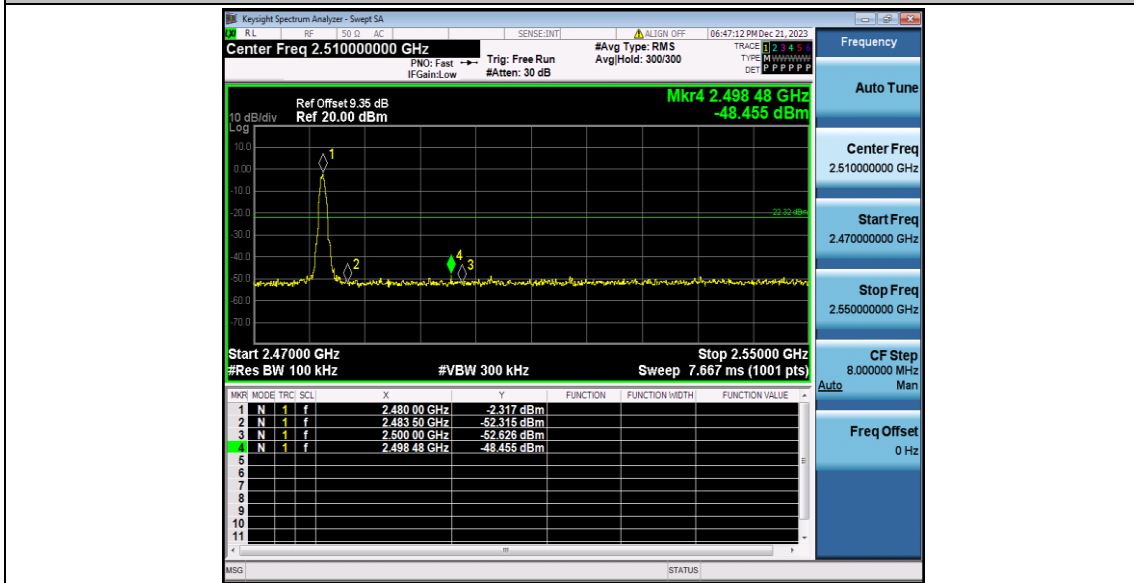
Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	-3.79	-49.22	≤-23.79	PASS
		High	2480	-2.32	-48.46	≤-22.32	PASS

Test Graphs



BLE_Ant1_Low_2402



BLE_Ant1_High_2480

Appendix A.6: Conducted Spurious Emission

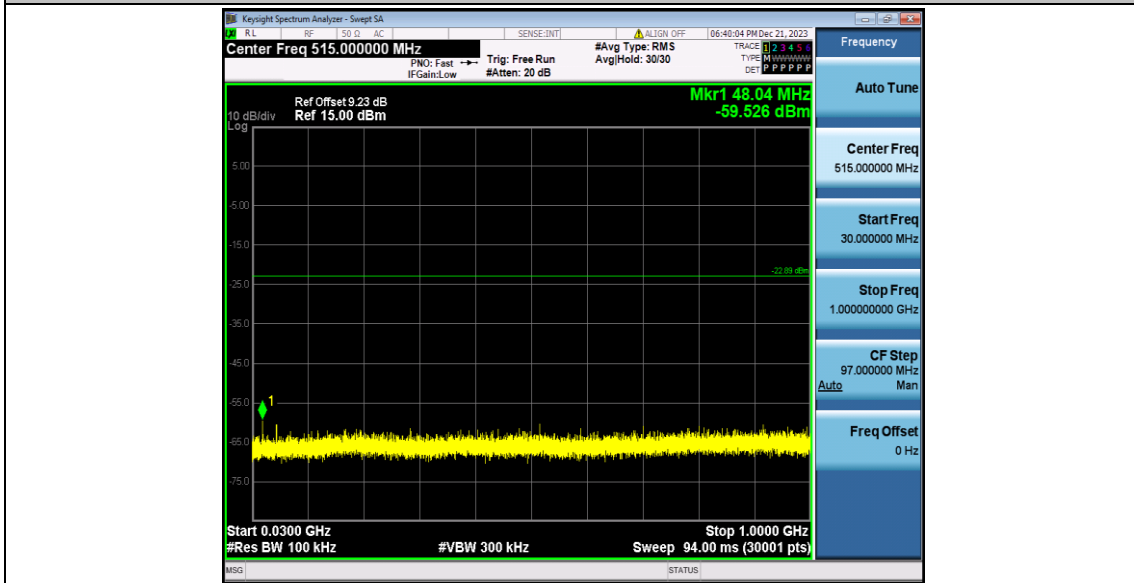
Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	-2.89	-2.89	---	PASS
			30~1000	-2.89	-59.53	≤ -22.89	PASS
			1000~26500	-2.89	-47.74	≤ -22.89	PASS
		2440	Reference	-4.52	-4.52	---	PASS
			30~1000	-4.52	-59.17	≤ -24.52	PASS
			1000~26500	-4.52	-47.57	≤ -24.52	PASS
		2480	Reference	-2.64	-2.64	---	PASS
			30~1000	-2.64	-60.32	≤ -22.64	PASS
			1000~26500	-2.64	-33.99	≤ -22.64	PASS

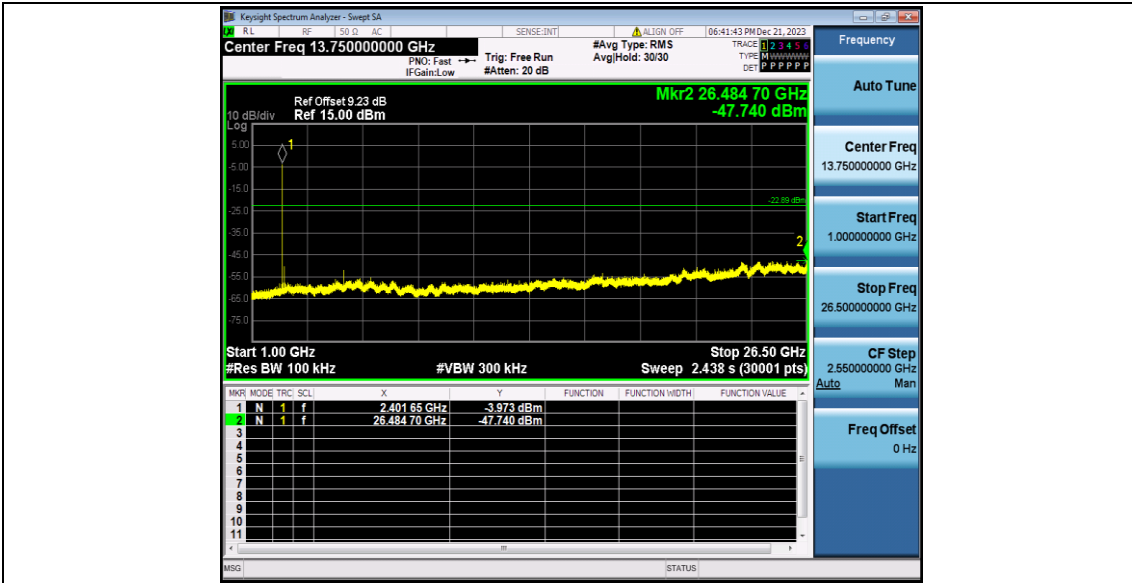
Test Graphs



BLE_Ant1_2402_0~Reference



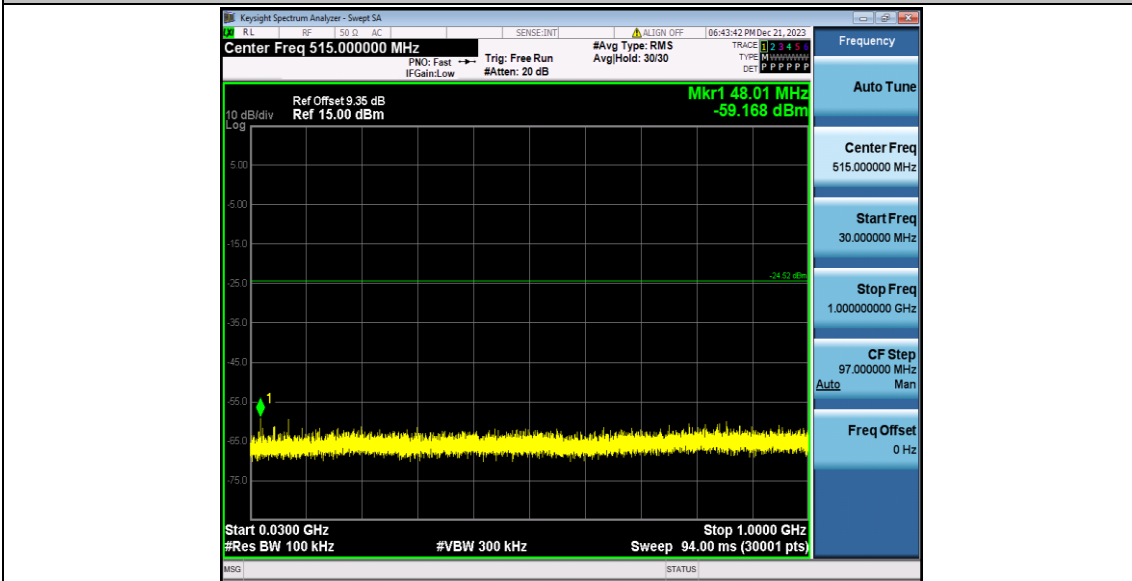
BLE_Ant1_2402_30~1000



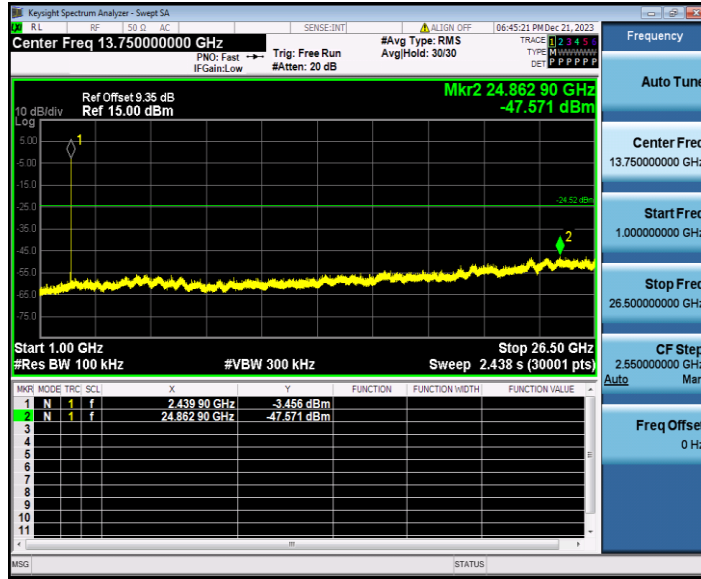
BLE_Ant1_2402_1000~26500



BLE_Ant1_2440_0~Reference



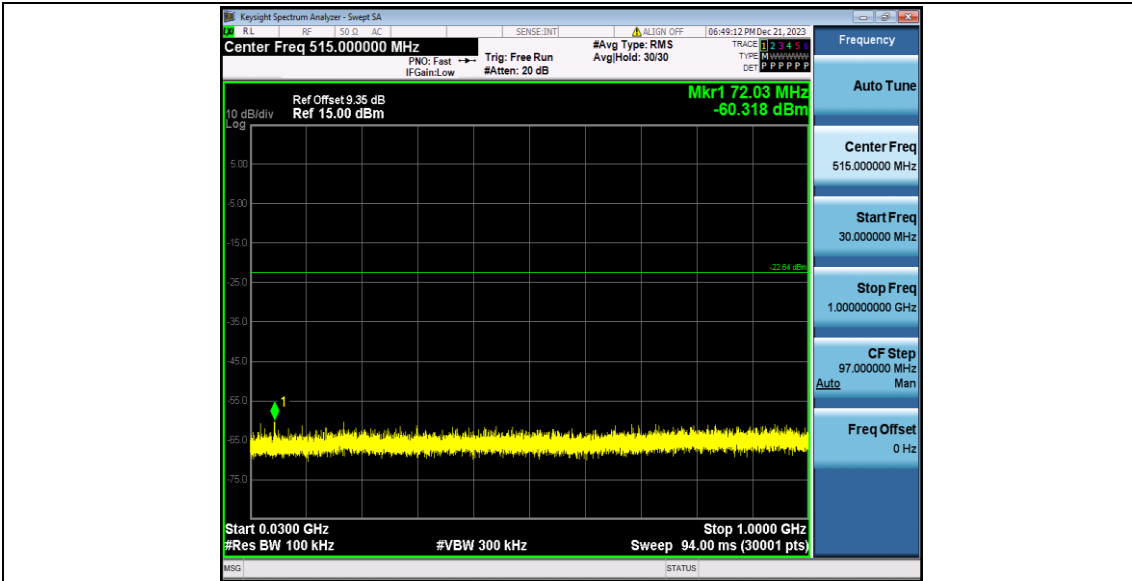
BLE_Ant1_2440_30~1000



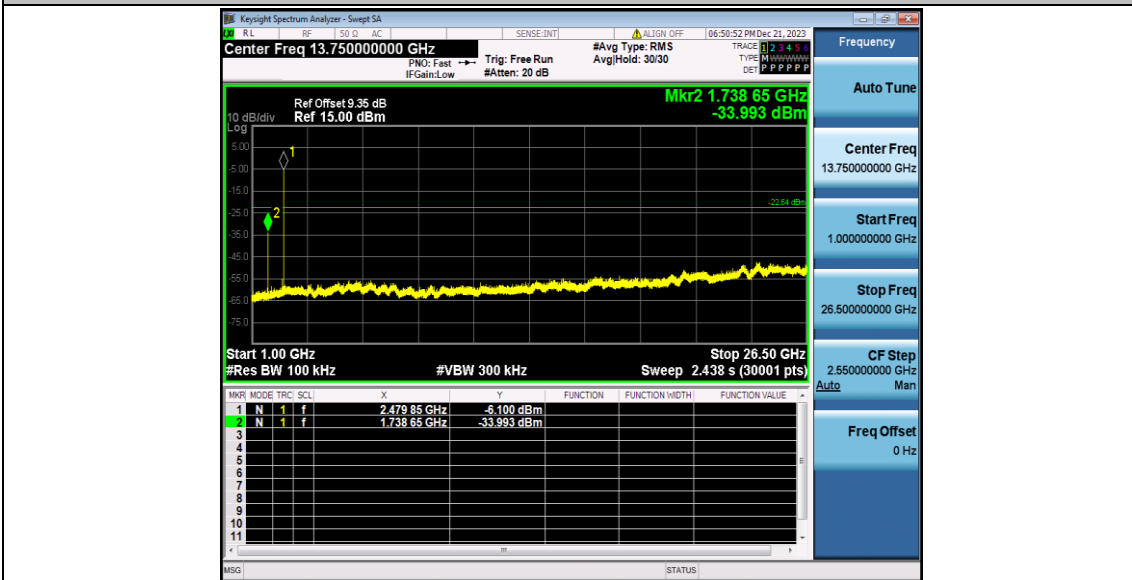
BLE_Ant1_2440_1000~26500



BLE_Ant1_2480_0~Reference



BLE_Ant1_2480_30~1000



BLE_Ant1_2480_1000~26500

Appendix A.7: Emissions in Restricted Bands

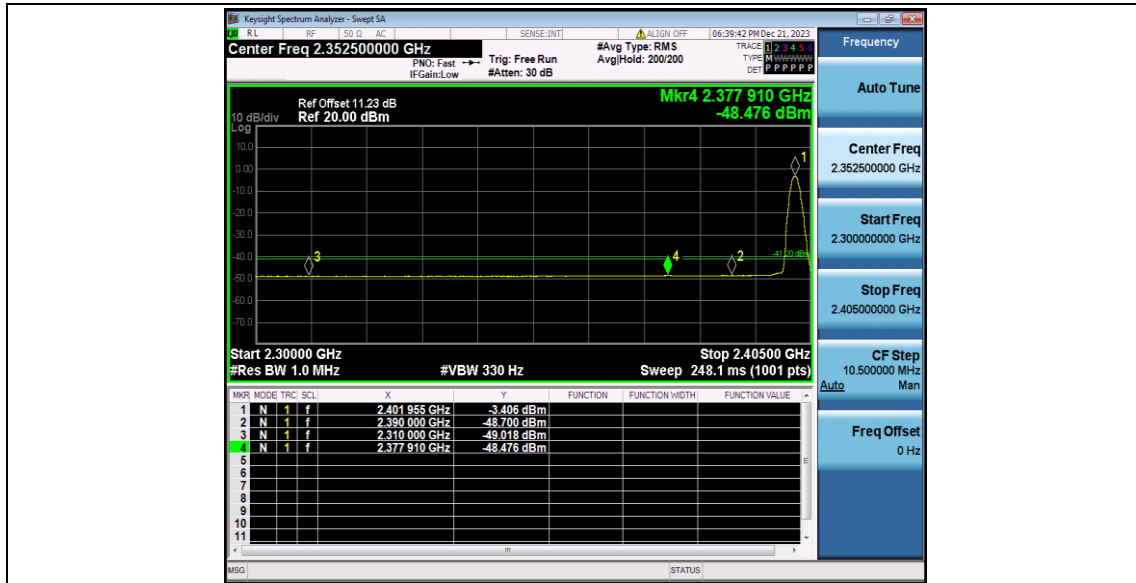
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	Ant1	Low	2402	AV	2310.000	-49.02	≤-41.20	46.18	≤54	PASS
				AV	2377.910	-48.48	≤-41.20	46.72	≤54	PASS
				AV	2390.000	-48.7	≤-41.20	46.50	≤54	PASS
				Peak	2310.000	-41.9	≤-21.20	53.30	≤74	PASS
				Peak	2385.365	-38.54	≤-21.20	56.66	≤74	PASS
				Peak	2390.000	-41.82	≤-21.20	53.38	≤74	PASS
		High	2480	AV	2483.500	-47.66	≤-41.20	47.54	≤54	PASS
				AV	2483.600	-47.57	≤-41.20	47.63	≤54	PASS
				AV	2500.000	-48.29	≤-41.20	46.91	≤54	PASS
				Peak	2483.500	-38.86	≤-21.20	56.34	≤74	PASS
				Peak	2487.920	-38.01	≤-21.20	57.19	≤74	PASS
				Peak	2500.000	-39.76	≤-21.20	55.44	≤74	PASS

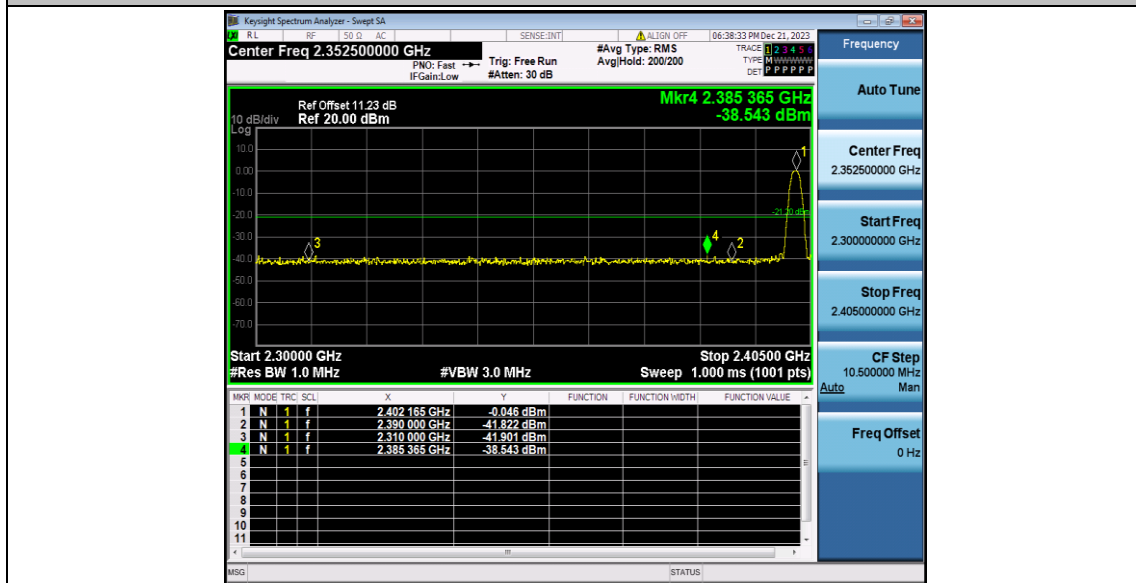
Note:

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.

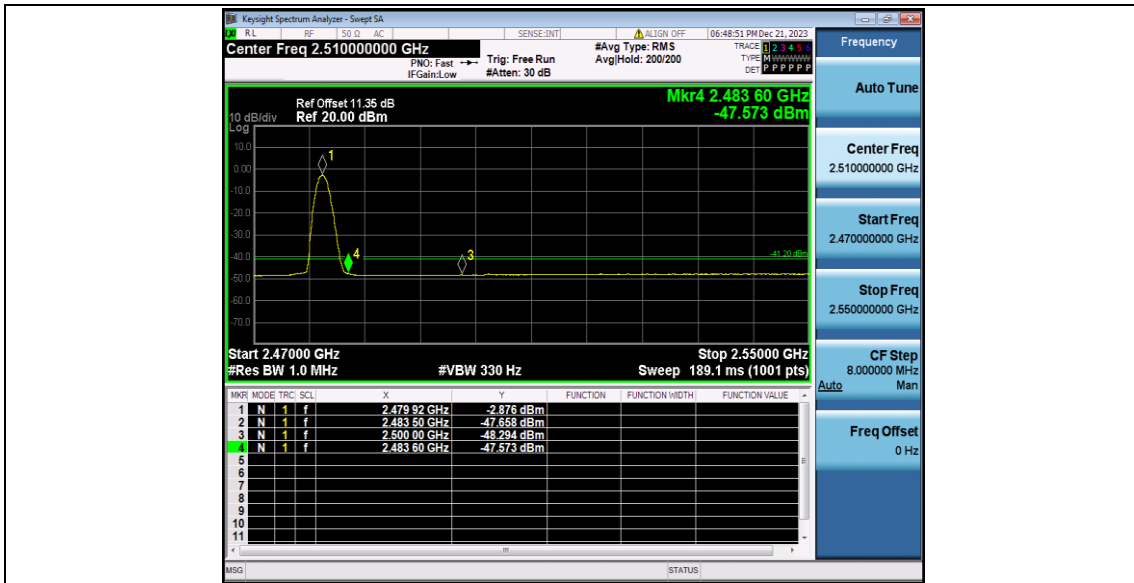
Test Graphs



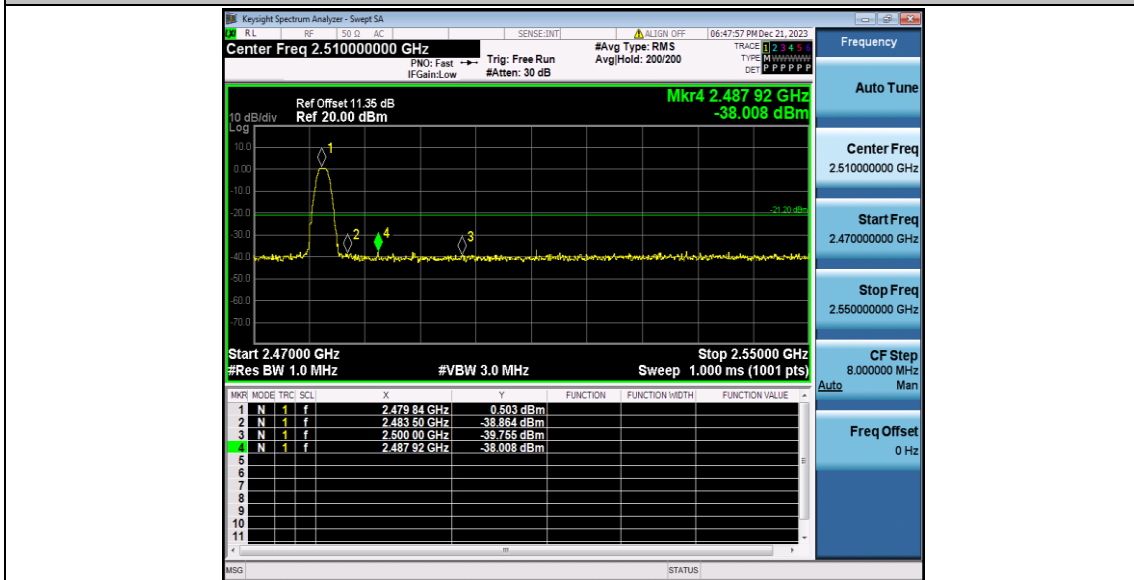
BLE_Ant1_Low_2402_AV



BLE_Ant1_Low_2402_Peak



BLE_Ant1_High_2480_AV



BLE_Ant1_High_2480_Peak