

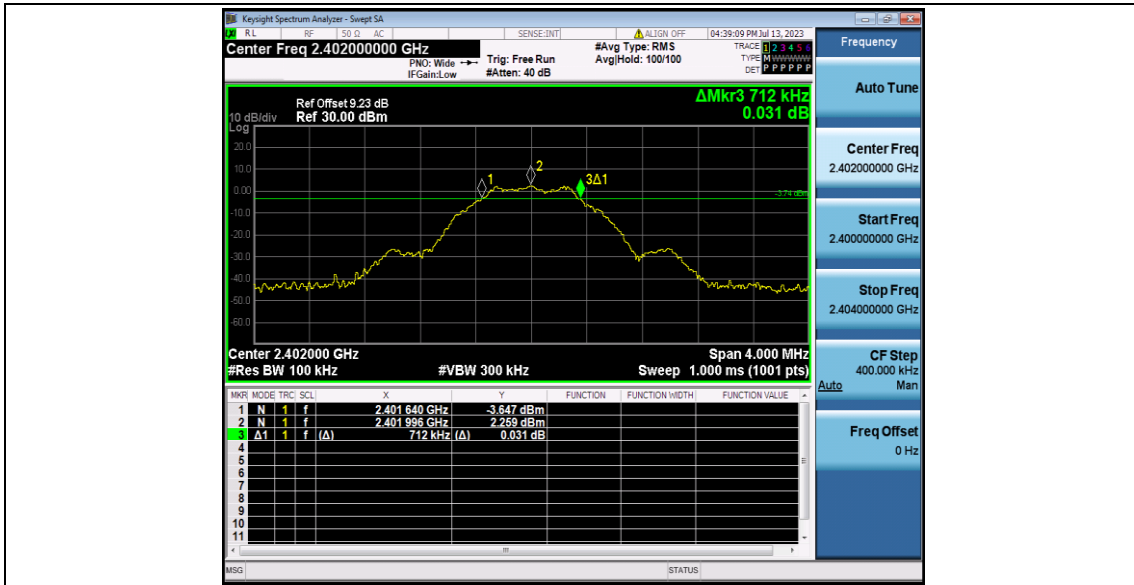
Case No. : <u>GTS20220803009-1-39</u>
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,
Test Date: <u>2023.7.6</u> Test Engineer: <u>Evan Ouyang</u>

Appendix B.1: DTS Bandwidth

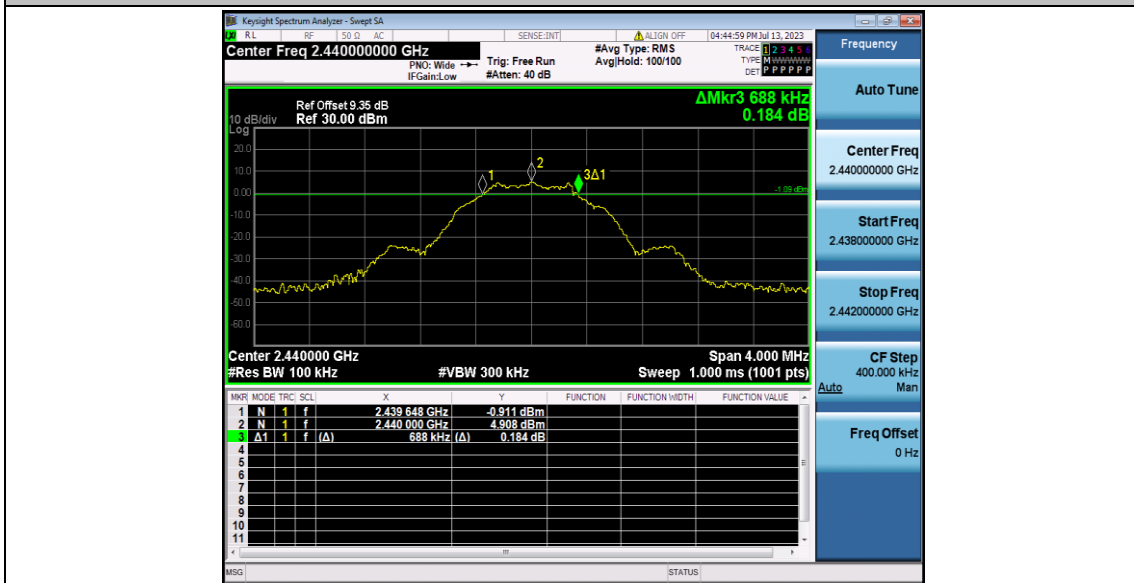
Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.712	2401.640	2402.352	0.5	PASS
		2440	0.688	2439.648	2440.336	0.5	PASS
		2480	0.664	2479.660	2480.324	0.5	PASS

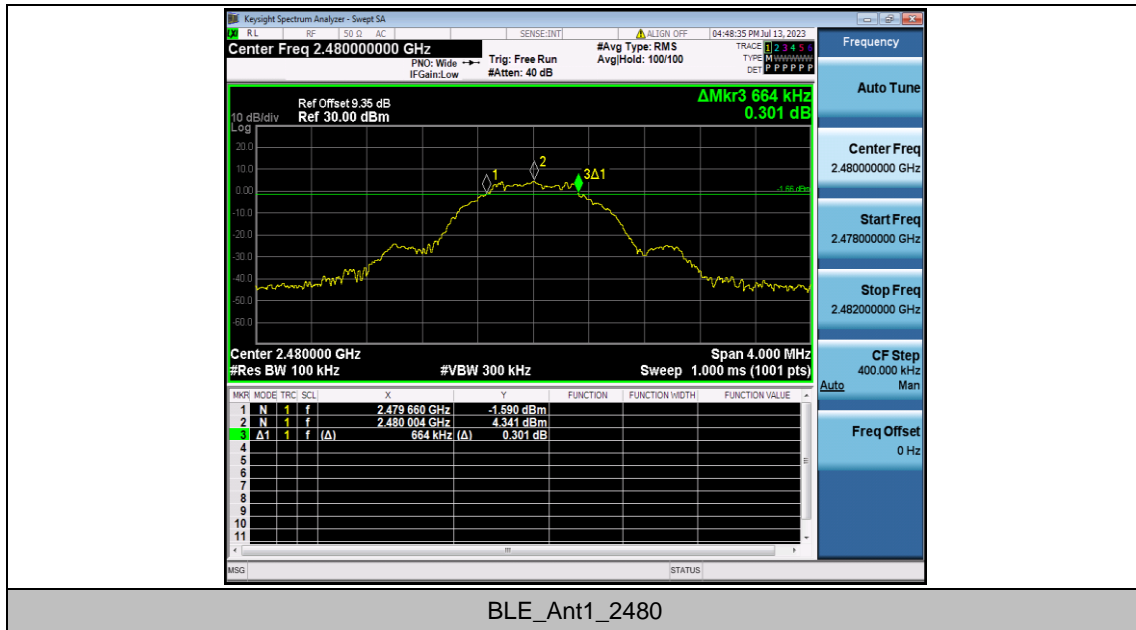
Test Graphs



BLE_Ant1_2402



BLE_Ant1_2440



BLE_Ant1_2480

Appendix B.2: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0598	2401.477	2402.536	---	---
		2440	1.0626	2439.480	2440.543	---	---
		2480	1.0630	2479.482	2480.545	---	---

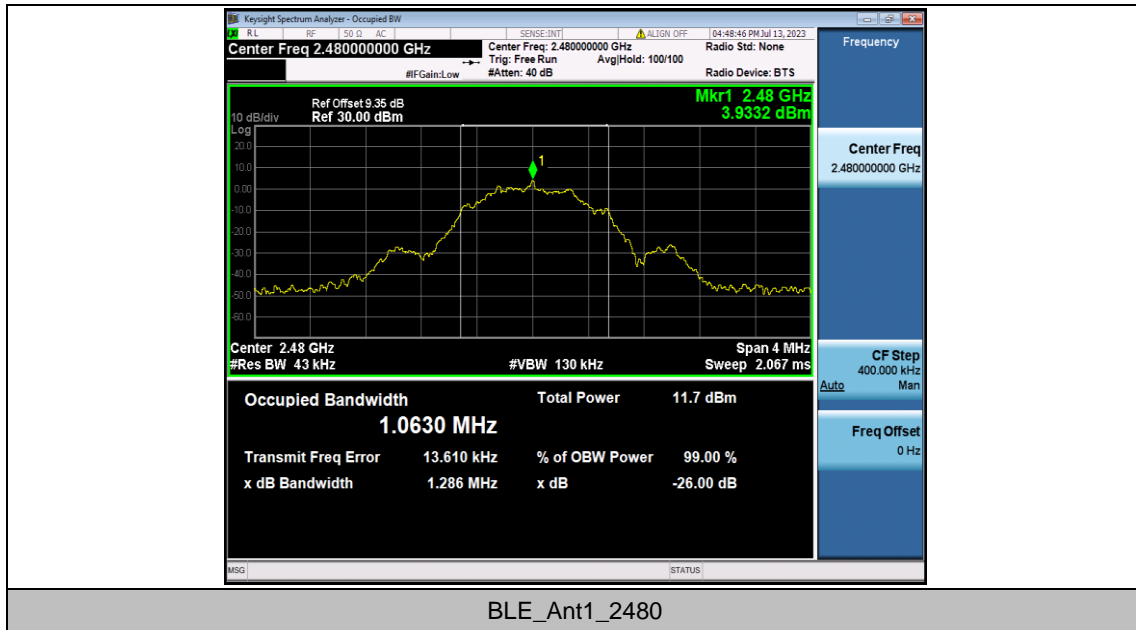
Test Graphs



BLE_Ant1_2402



BLE_Ant1_2440



BLE_Ant1_2480

Appendix B.3: Maximum conducted output power

Test Result Peak

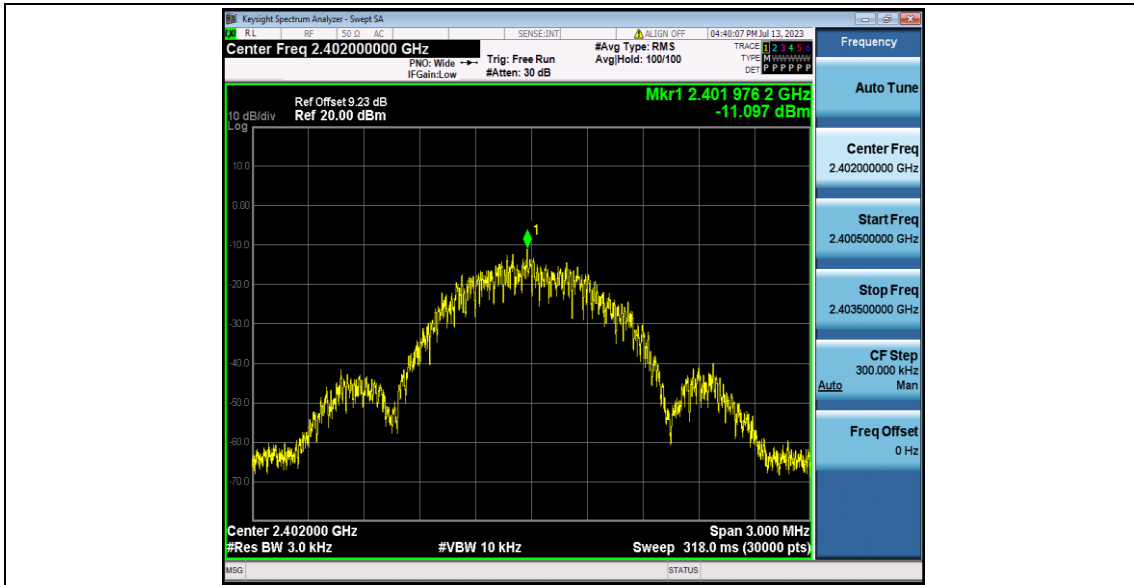
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	3.1	≤30	PASS
		2440	5.68	≤30	PASS
		2480	5.1	≤30	PASS

Appendix B.4: Maximum power spectral density

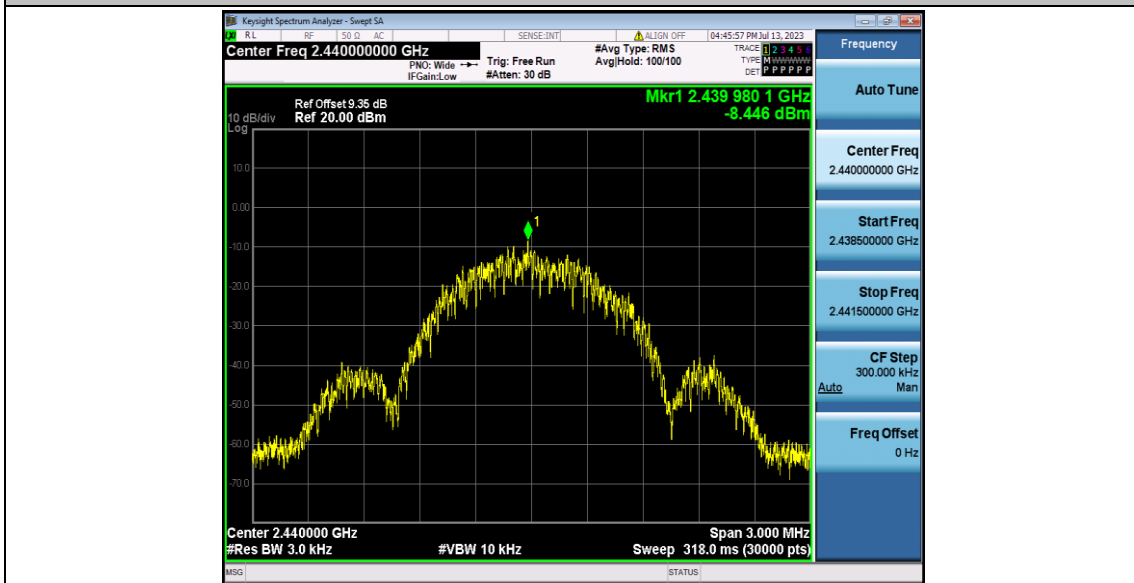
Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-11.1	≤8.00	PASS
		2440	-8.45	≤8.00	PASS
		2480	-8.96	≤8.00	PASS

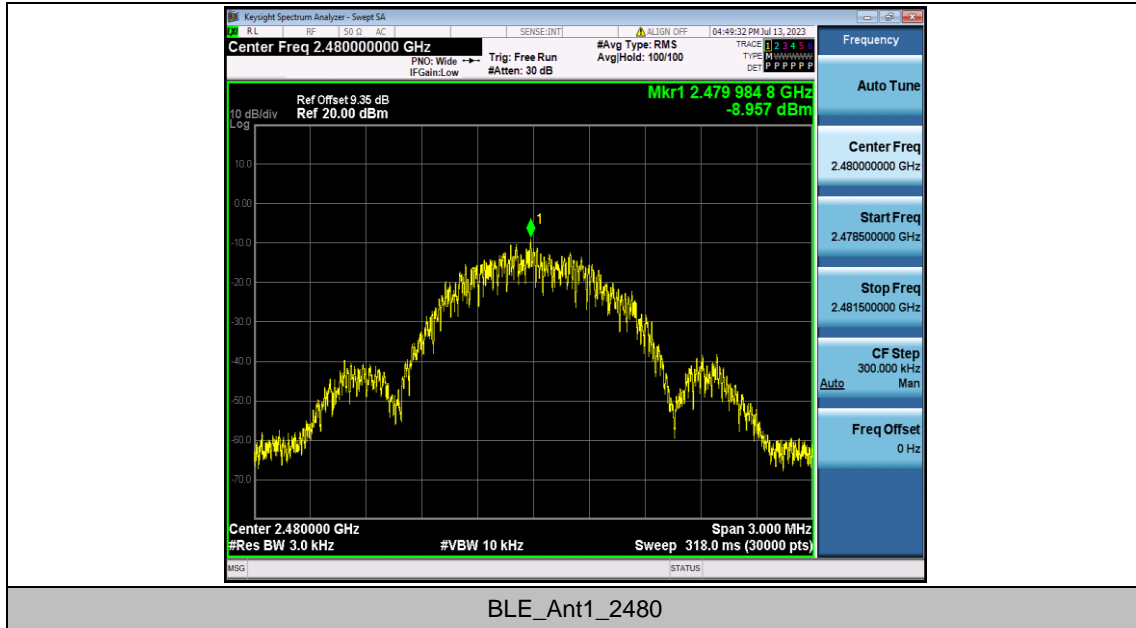
Test Graphs



BLE_Ant1_2402



BLE_Ant1_2440

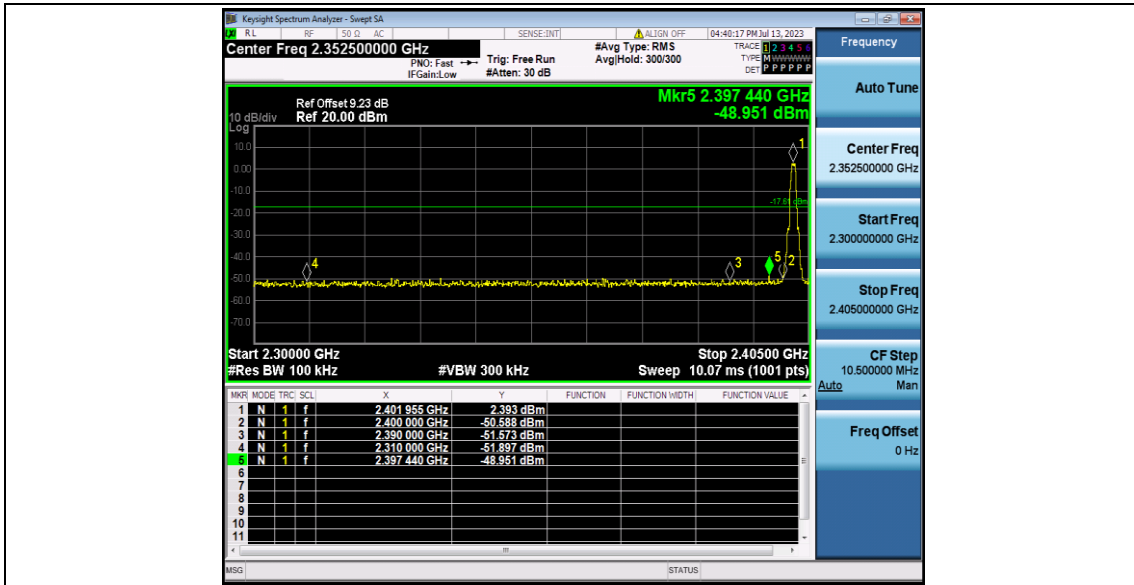


Appendix B.5: Band edge measurements

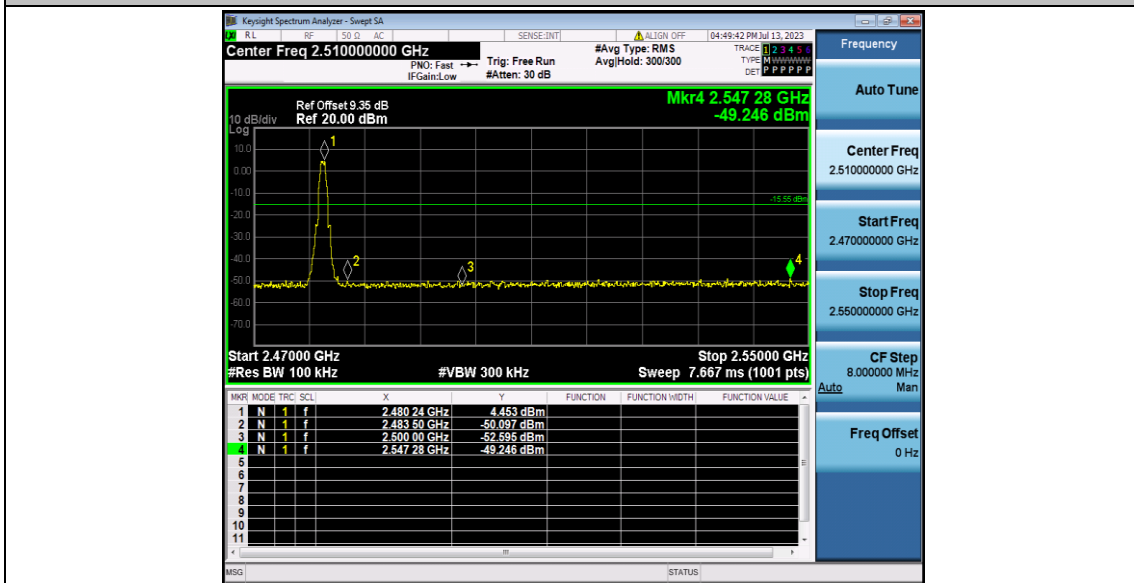
Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	2.39	-48.95	≤-17.61	PASS
		High	2480	4.45	-49.25	≤-15.55	PASS

Test Graphs



BLE_Ant1_Low_2402



BLE_Ant1_High_2480

Appendix B.6: Conducted Spurious Emission

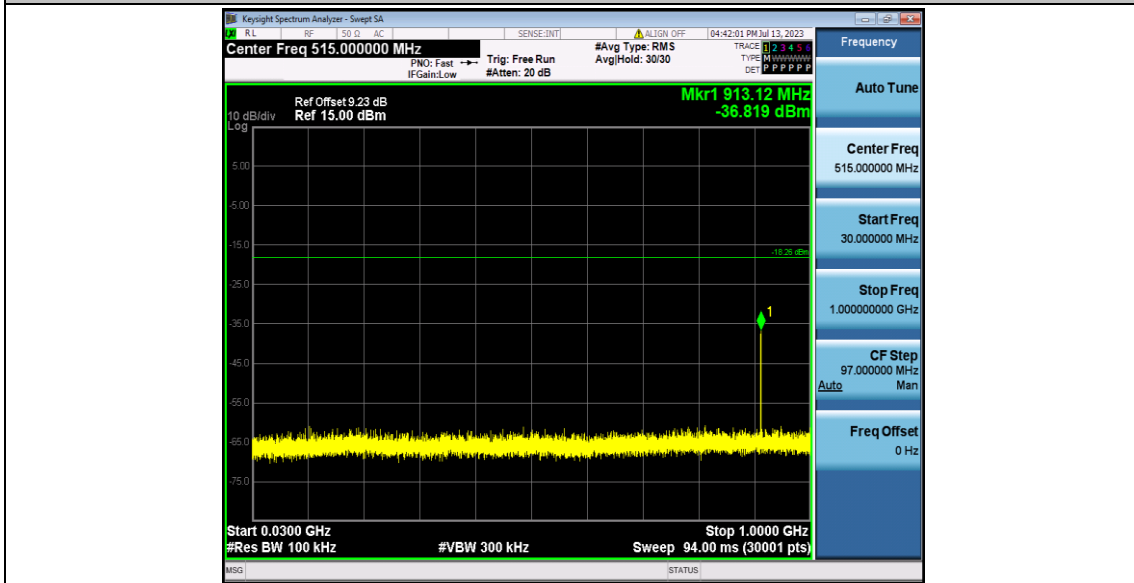
Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	1.74	1.74	---	PASS
			30~1000	1.74	-36.82	≤ -18.26	PASS
			1000~26500	1.74	-47.1	≤ -18.26	PASS
		2440	Reference	4.57	4.57	---	PASS
			30~1000	4.57	-51.8	≤ -15.43	PASS
			1000~26500	4.57	-47.41	≤ -15.43	PASS
		2480	Reference	4.06	4.06	---	PASS
			30~1000	4.06	-59.42	≤ -15.94	PASS
			1000~26500	4.06	-47.42	≤ -15.94	PASS

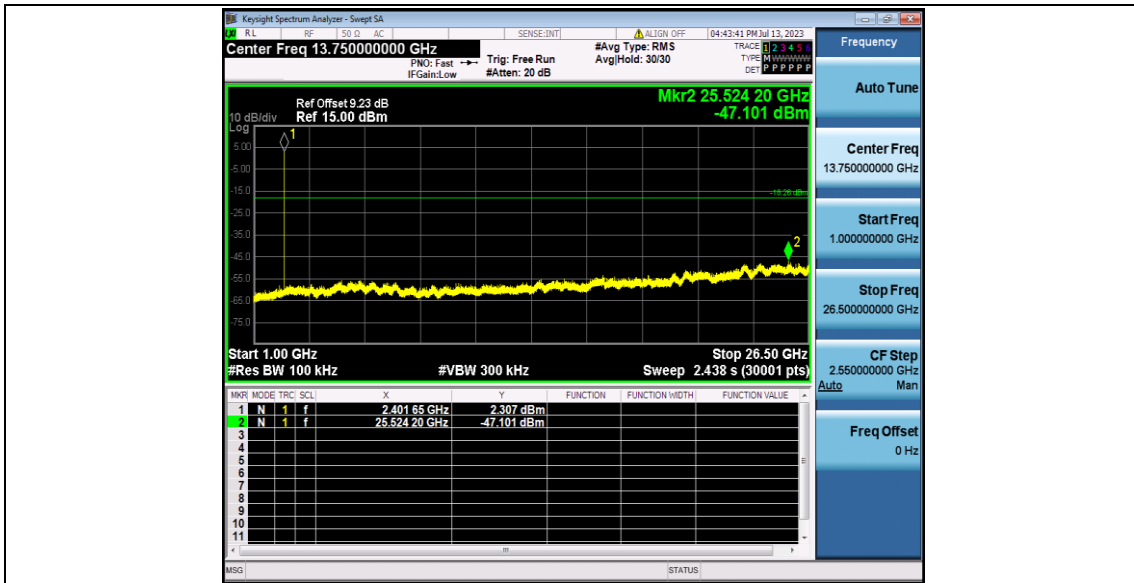
Test Graphs



BLE_Ant1_2402_0~Reference



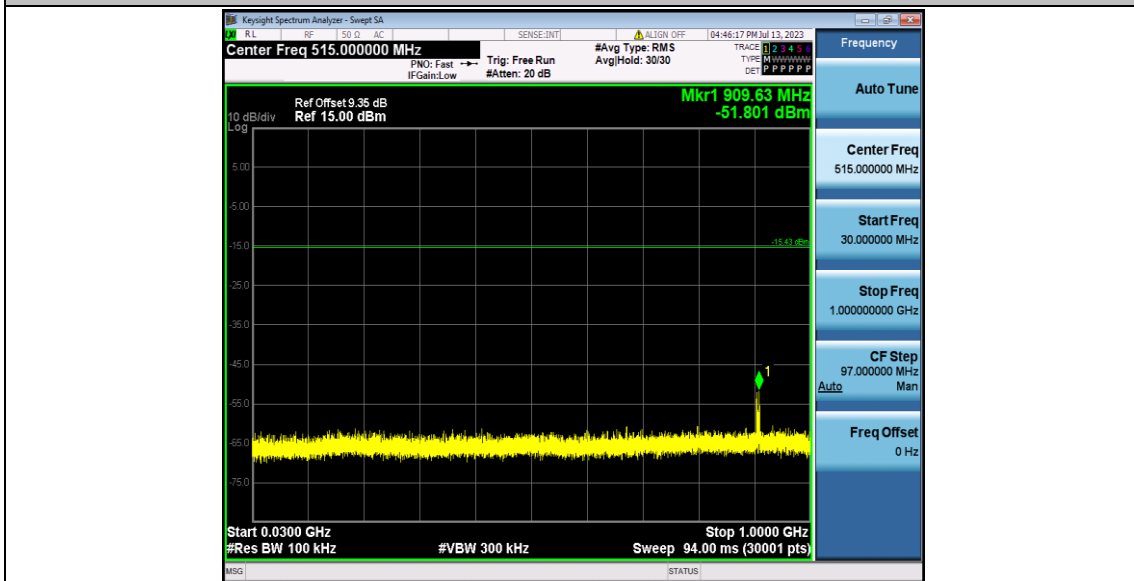
BLE_Ant1_2402_30~1000



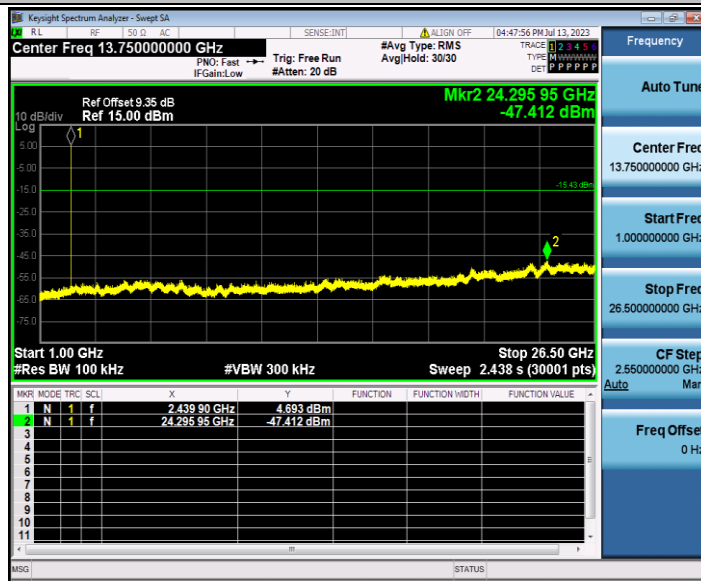
BLE_Ant1_2402_1000~26500



BLE_Ant1_2440_0~Reference



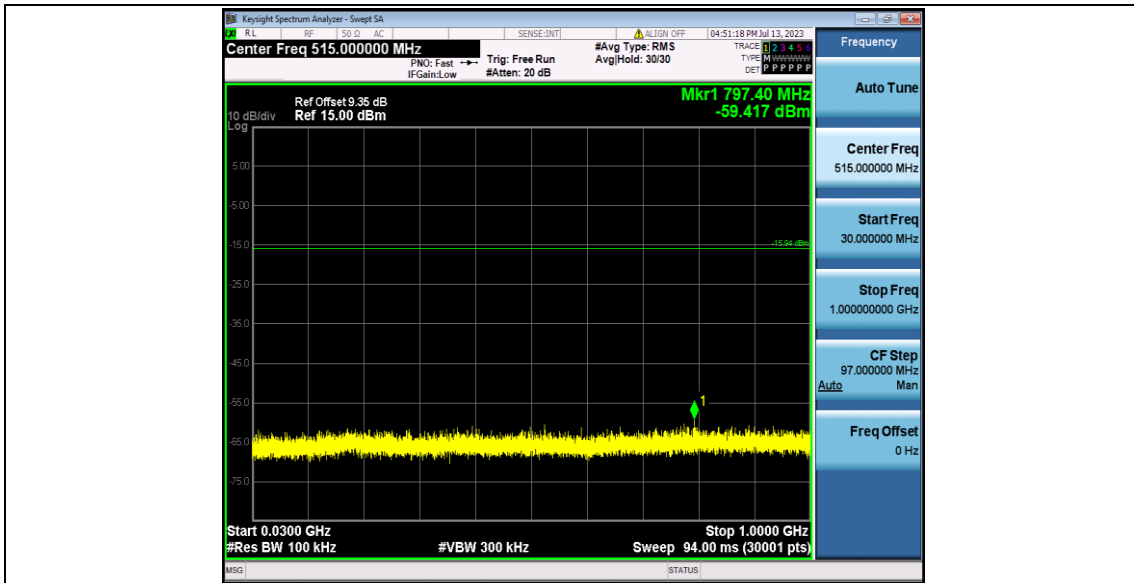
BLE_Ant1_2440_30~1000



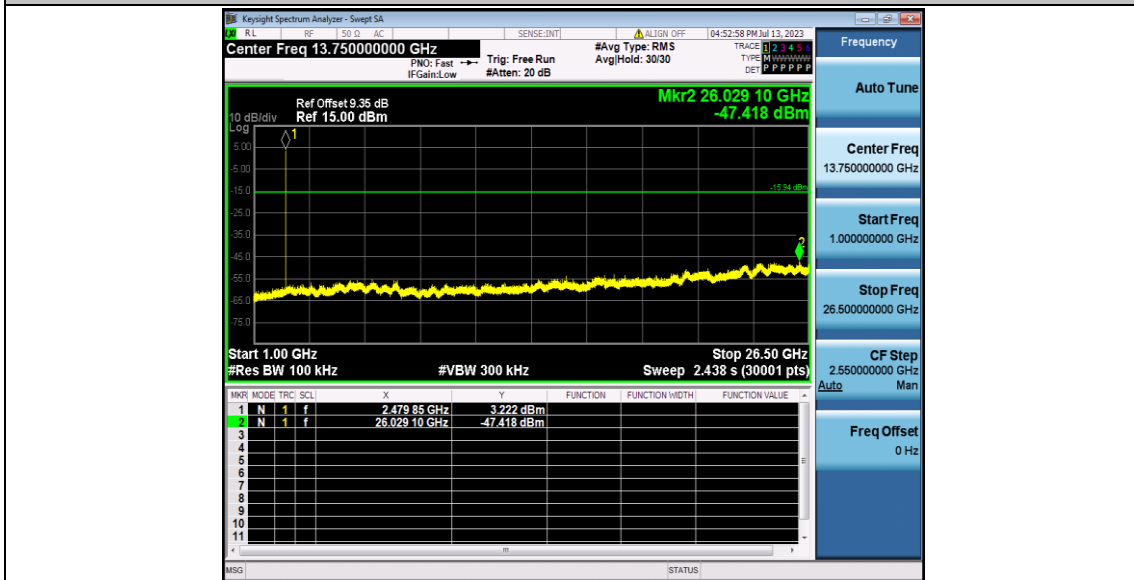
BLE_Ant1_2440_1000~26500



BLE_Ant1_2480_0~Reference



BLE_Ant1_2480_30~1000



BLE_Ant1_2480_1000~26500

Appendix B.7: Emissions in Restricted Bands

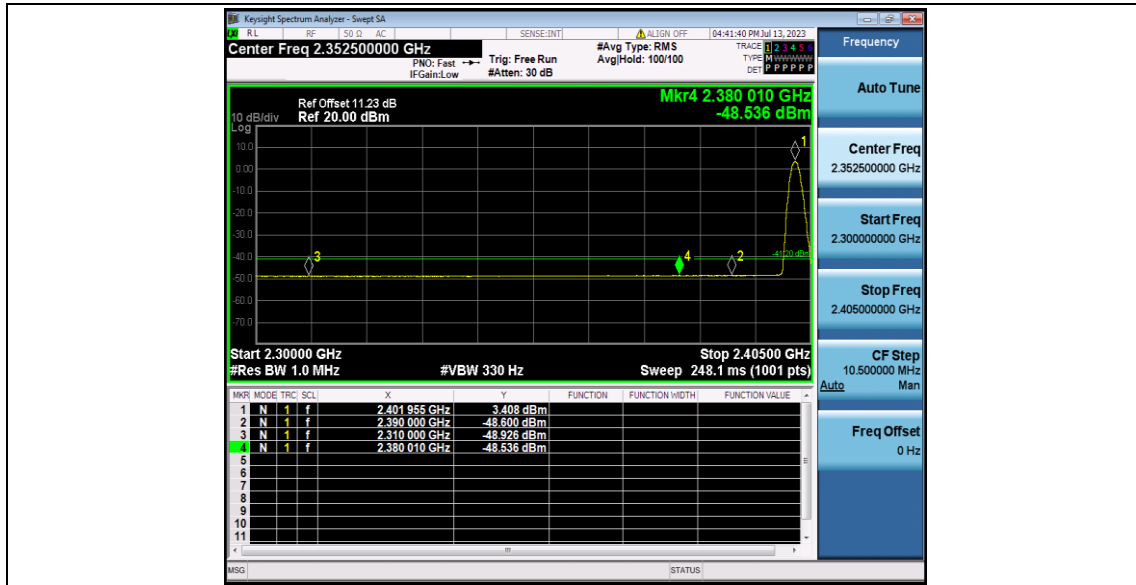
Test Result

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	-48.93	≤-41.20	46.27	≤54	PASS
				AV	2380.010	-48.54	≤-41.20	46.66	≤54	PASS
				AV	2390.000	-48.6	≤-41.20	46.60	≤54	PASS
				Peak	2310.000	-40.96	≤-21.20	54.24	≤74	PASS
				Peak	2387.360	-38.86	≤-21.20	56.34	≤74	PASS
				Peak	2390.000	-42.85	≤-21.20	52.35	≤74	PASS
		High	2480	AV	2483.500	-47.18	≤-41.20	48.02	≤54	PASS
				AV	2483.520	-47.18	≤-41.20	48.02	≤54	PASS
				AV	2500.000	-48.35	≤-41.20	46.85	≤54	PASS
				Peak	2483.500	-41.79	≤-21.20	53.41	≤74	PASS
				Peak	2490.160	-38.87	≤-21.20	56.33	≤74	PASS
				Peak	2500.000	-41.74	≤-21.20	53.46	≤74	PASS

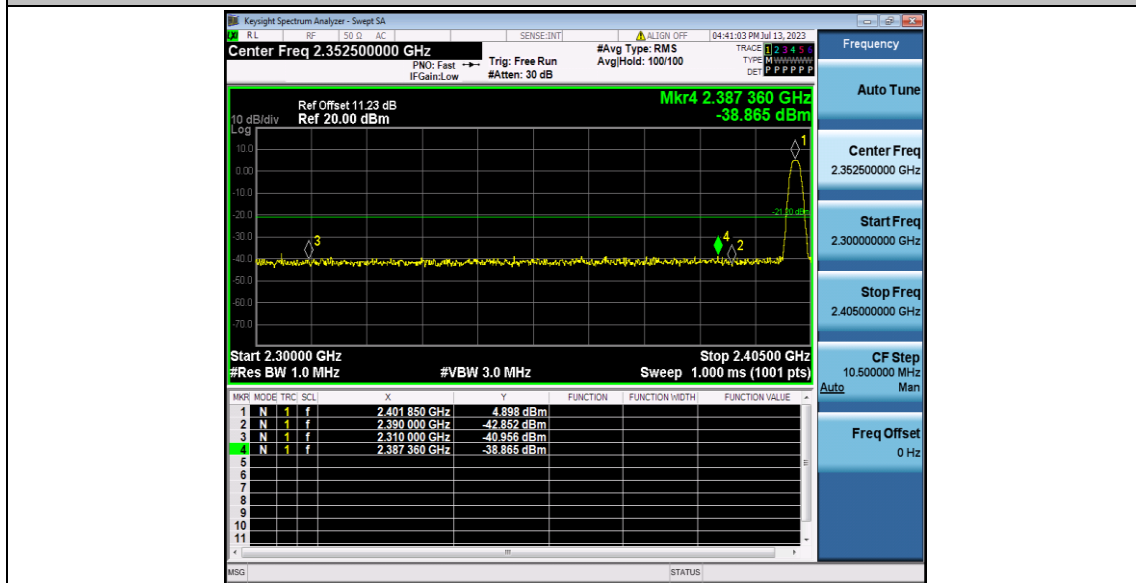
Note:

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.

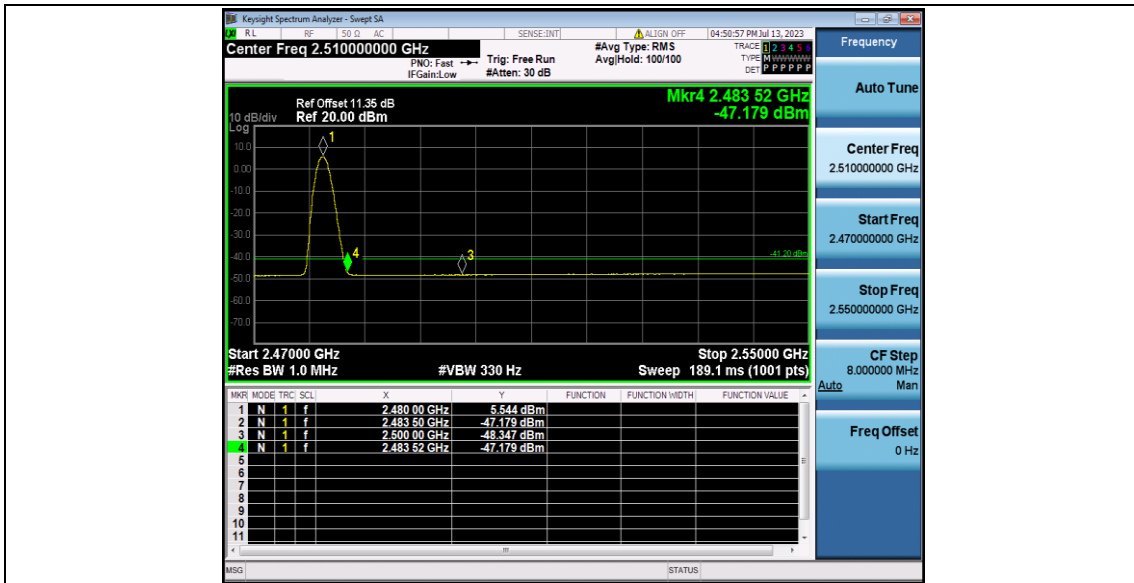
Test Graphs



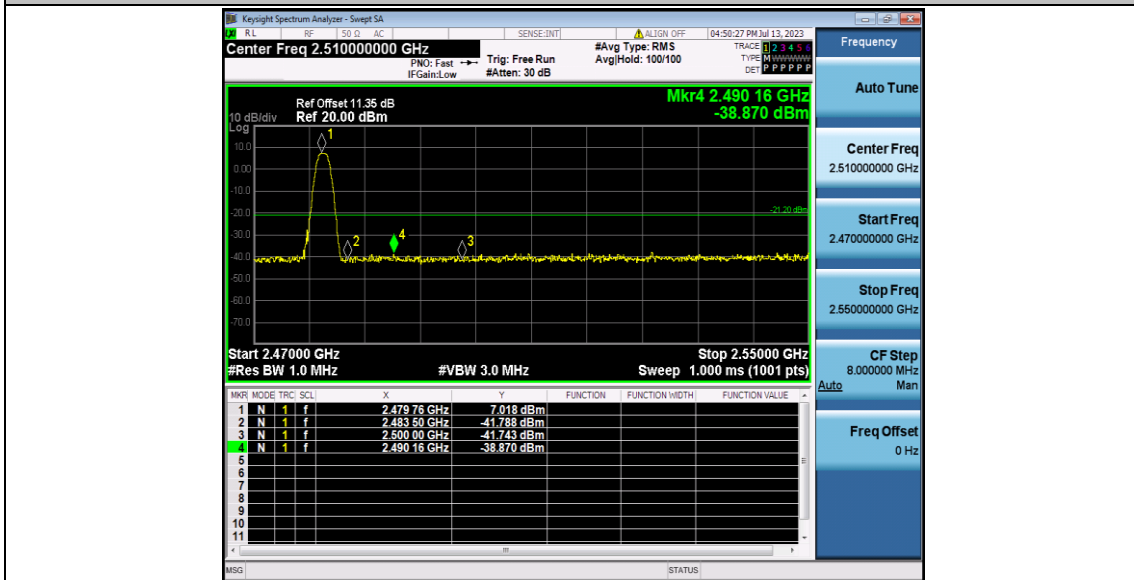
BLE_Ant1_Low_2402_AV



BLE_Ant1_Low_2402_Peak



BLE_Ant1_High_2480_AV



BLE_Ant1_High_2480_Peak