

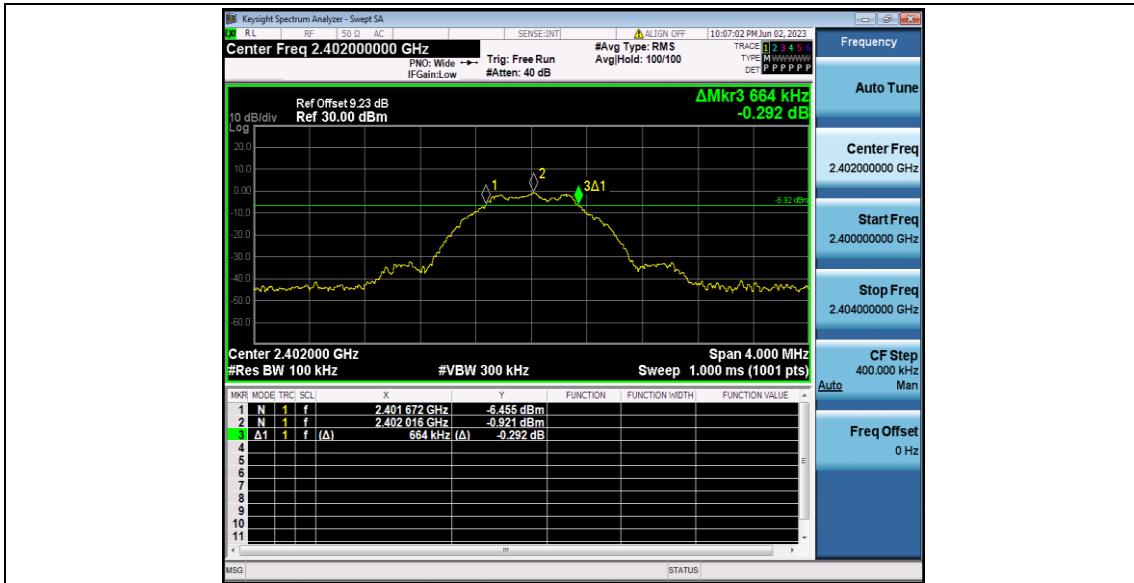
Case No. : <u>GTS20221215003-1-4</u>
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,
Test Date: <u>2023.6.1</u> Test Engineer: <u>Jenny zeng</u>

Appendix B.1: DTS Bandwidth

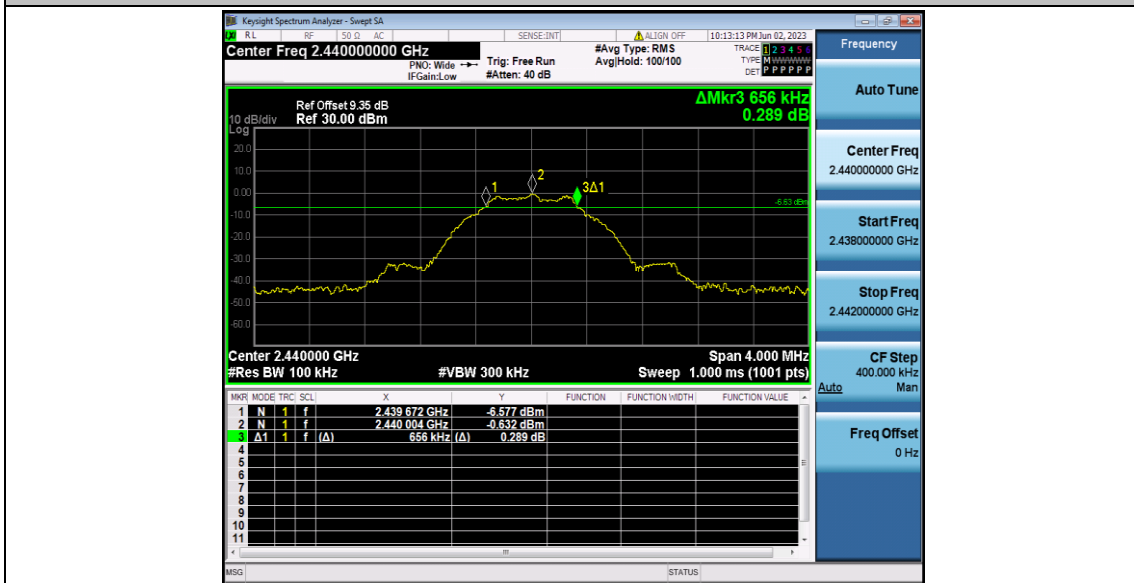
Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.664	2401.672	2402.336	0.5	PASS
		2440	0.656	2439.672	2440.328	0.5	PASS
		2480	0.724	2479.636	2480.360	0.5	PASS

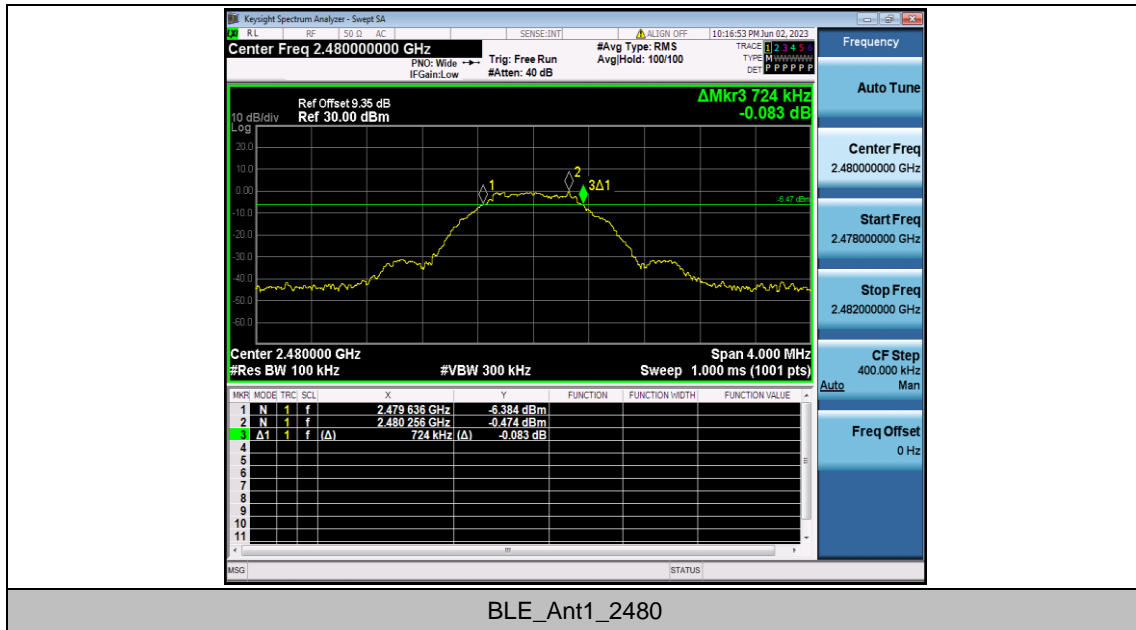
Test Graphs



BLE_Ant1_2402



BLE_Ant1_2440



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	1.0354	2401.495	2402.530	---	---
		2440	1.0358	2439.493	2440.529	---	---
		2480	1.0406	2479.491	2480.531	---	---

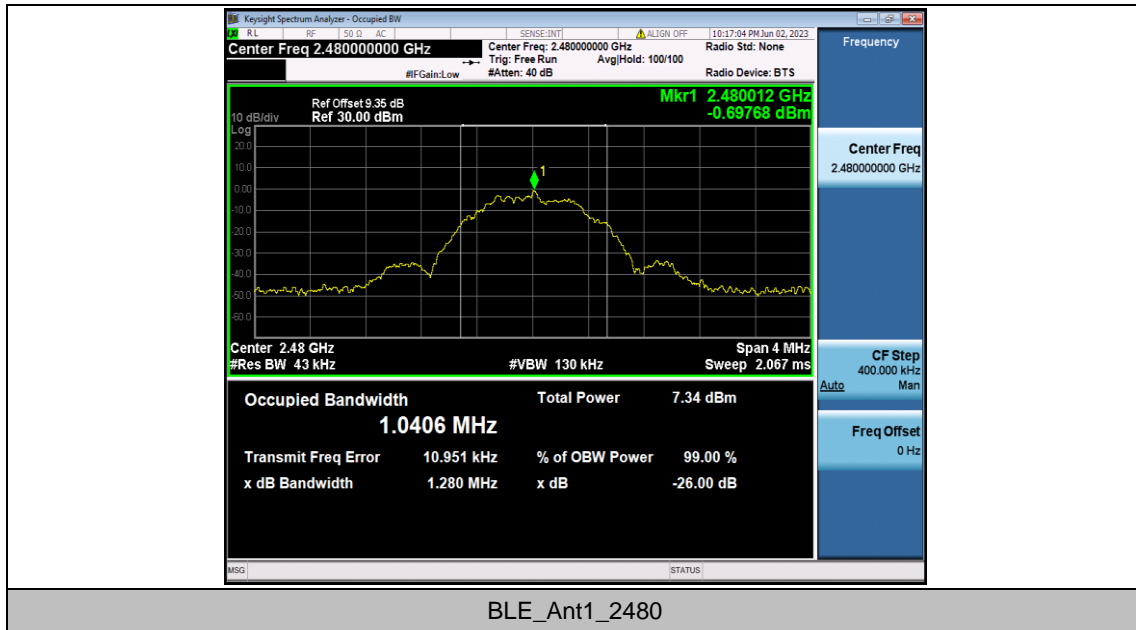
Test Graphs



BLE_Ant1_2402



BLE_Ant1_2440



BLE_Ant1_2480

Appendix B.3: Maximum conducted output power

Test Result Peak

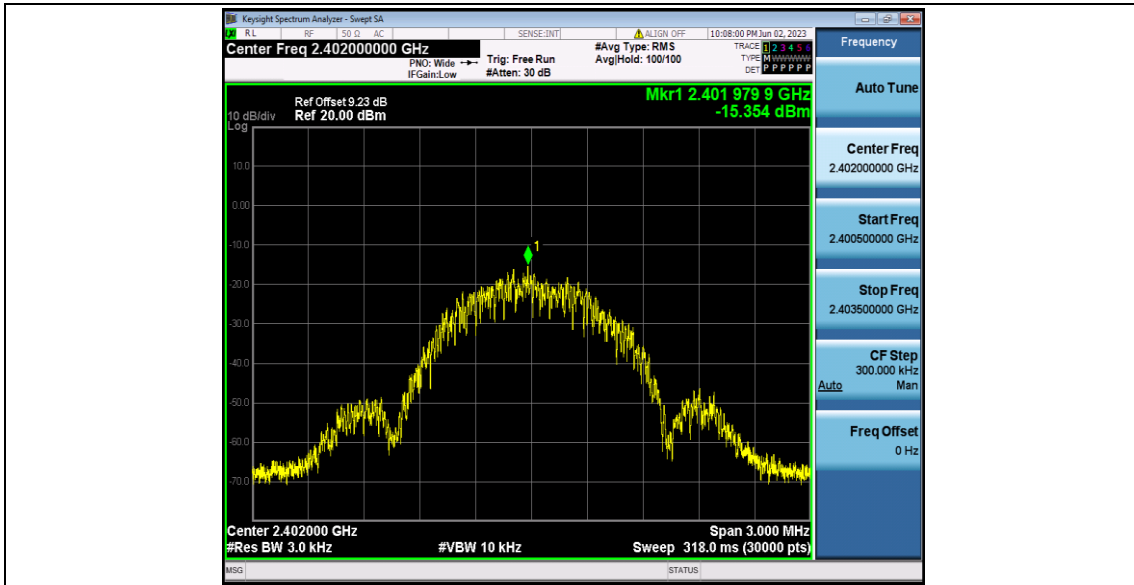
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	-0.39	≤30	PASS
		2440	-0.17	≤30	PASS
		2480	0.78	≤30	PASS

Appendix B.4: Maximum power spectral density

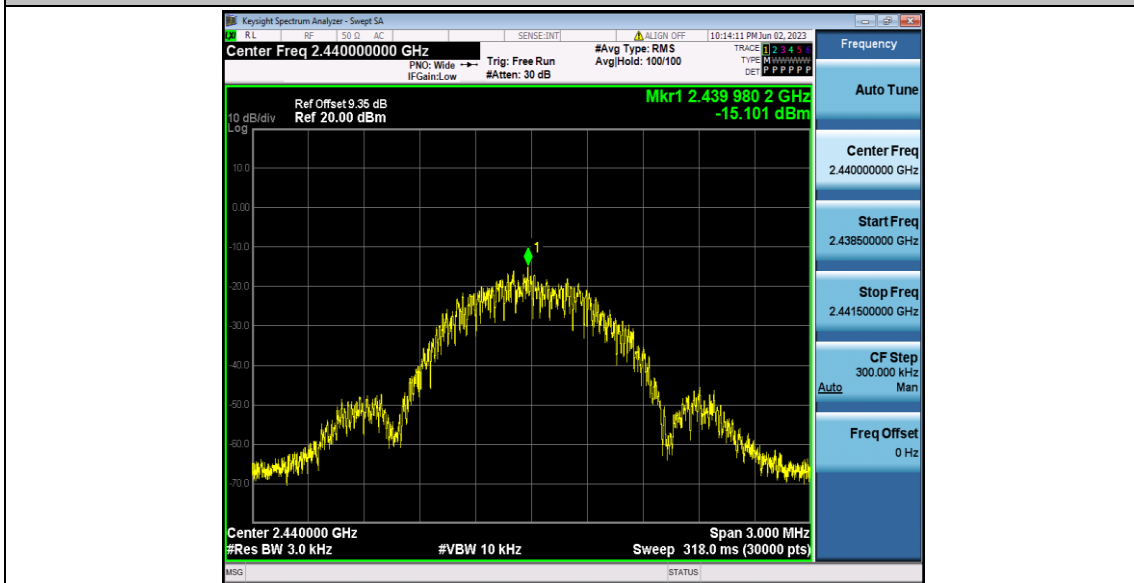
Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-15.35	≤8.00	PASS
		2440	-15.1	≤8.00	PASS
		2480	-14.1	≤8.00	PASS

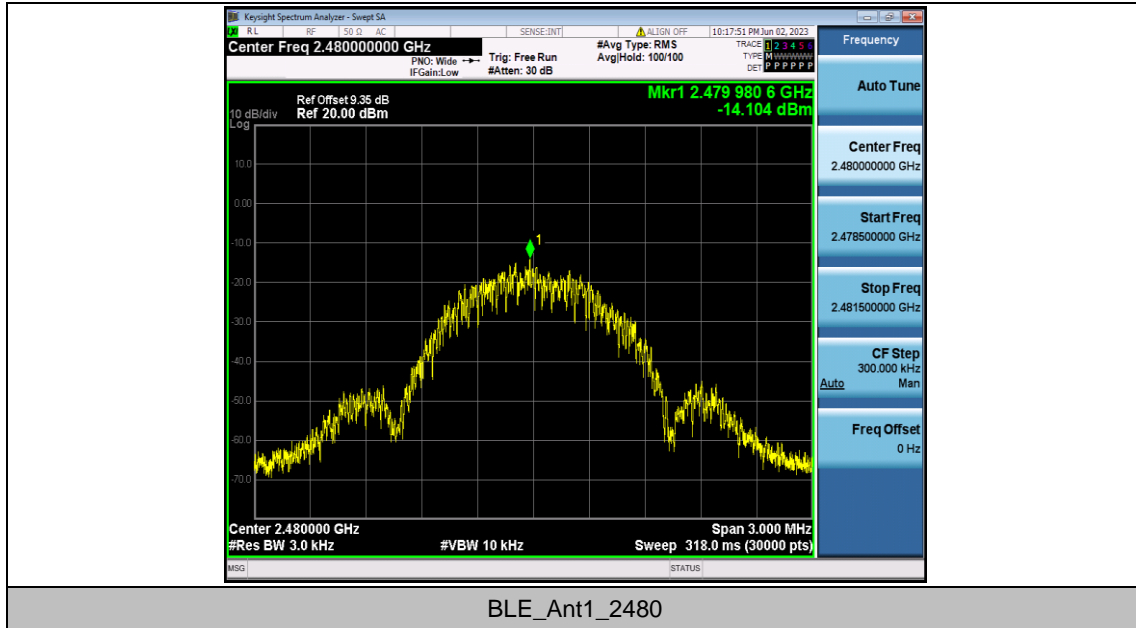
Test Graphs



BLE_Ant1_2402



BLE_Ant1_2440



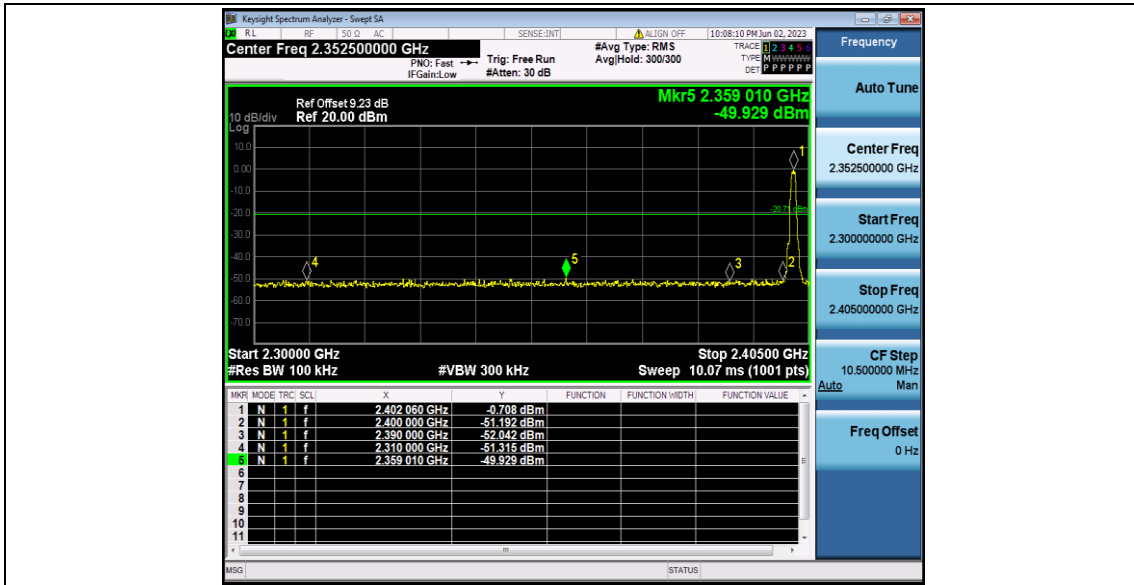
BLE_Ant1_2480

Appendix B.5: Band edge measurements

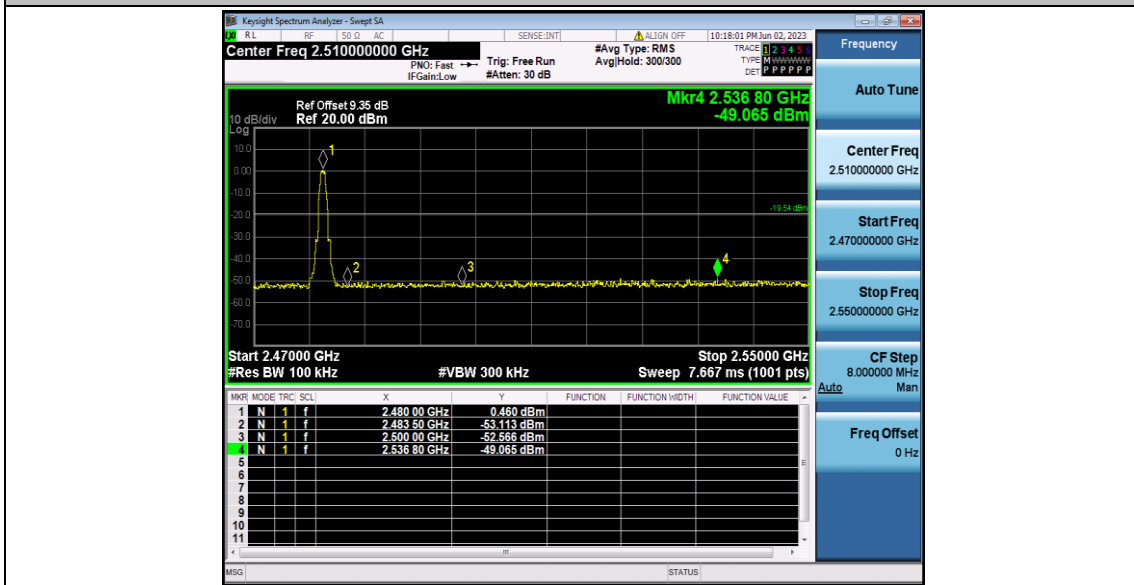
Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	-0.71	-49.93	≤-20.71	PASS
		High	2480	0.46	-49.07	≤-19.54	PASS

Test Graphs



BLE_Ant1_Low_2402



BLE_Ant1_High_2480

Appendix B.6: Conducted Spurious Emission

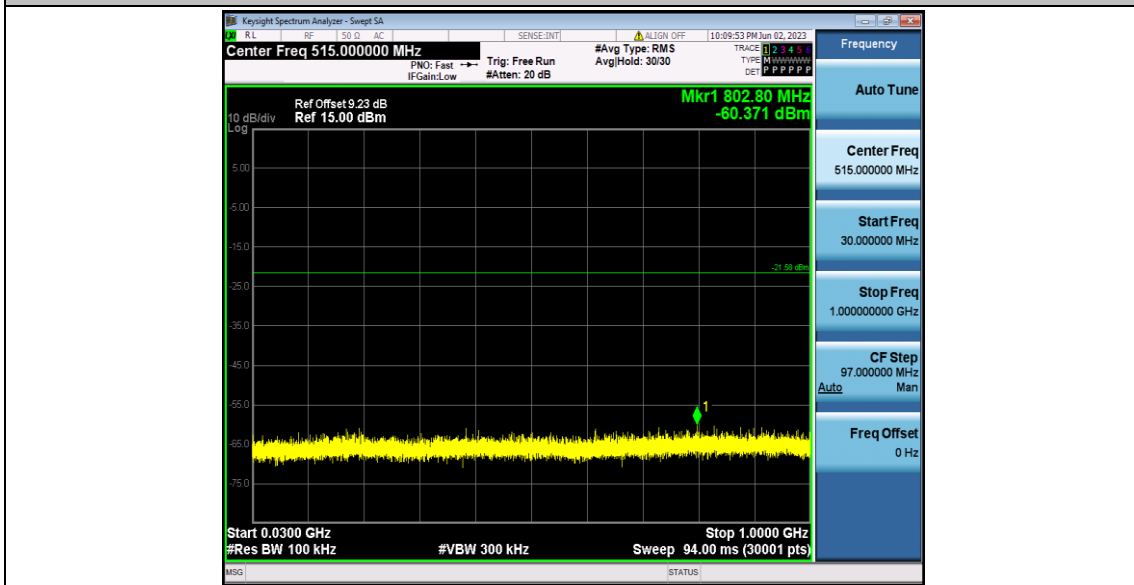
Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	-1.58	-1.58	---	PASS
			30~1000	-1.58	-60.37	≤ -21.58	PASS
			1000~26500	-1.58	-47.54	≤ -21.58	PASS
		2440	Reference	-0.91	-0.91	---	PASS
			30~1000	-0.91	-60.6	≤ -20.91	PASS
			1000~26500	-0.91	-47.21	≤ -20.91	PASS
		2480	Reference	-0.08	-0.08	---	PASS
			30~1000	-0.08	-60.67	≤ -20.08	PASS
			1000~26500	-0.08	-47.1	≤ -20.08	PASS

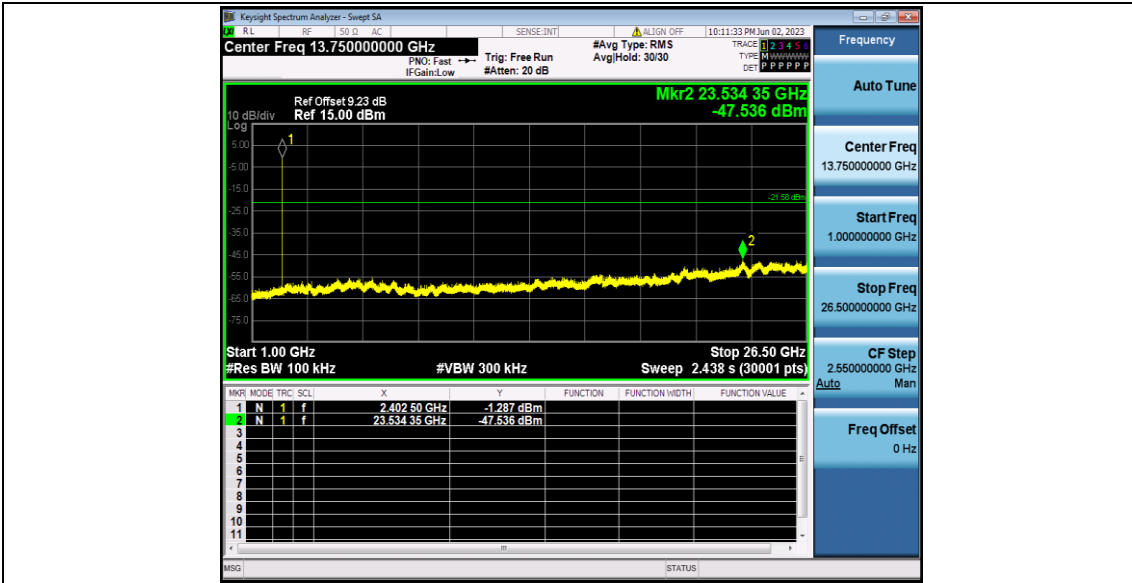
Test Graphs



BLE_Ant1_2402_0~Reference



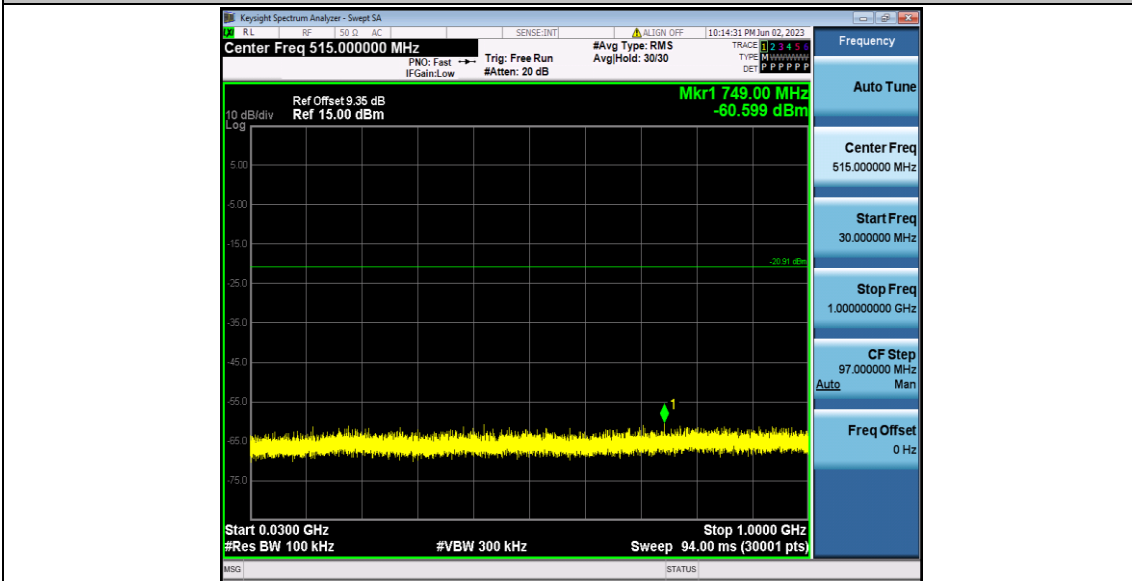
BLE_Ant1_2402_30~1000



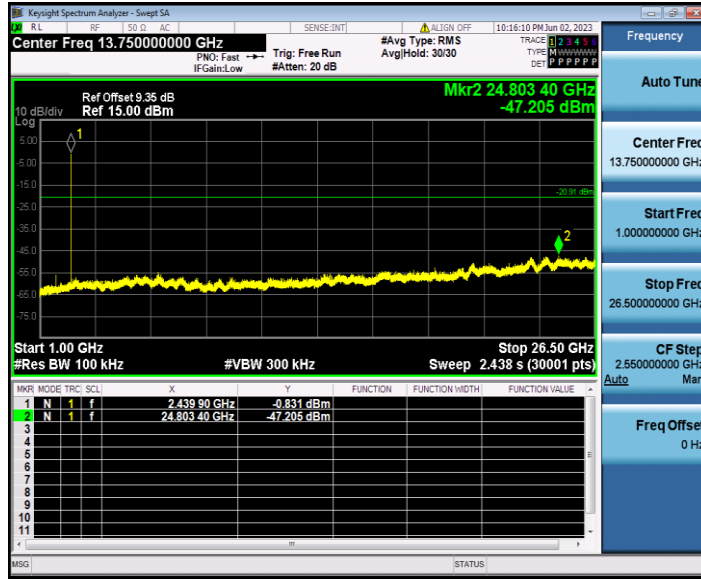
BLE_Ant1_2402_1000~26500



BLE_Ant1_2440_0~Reference



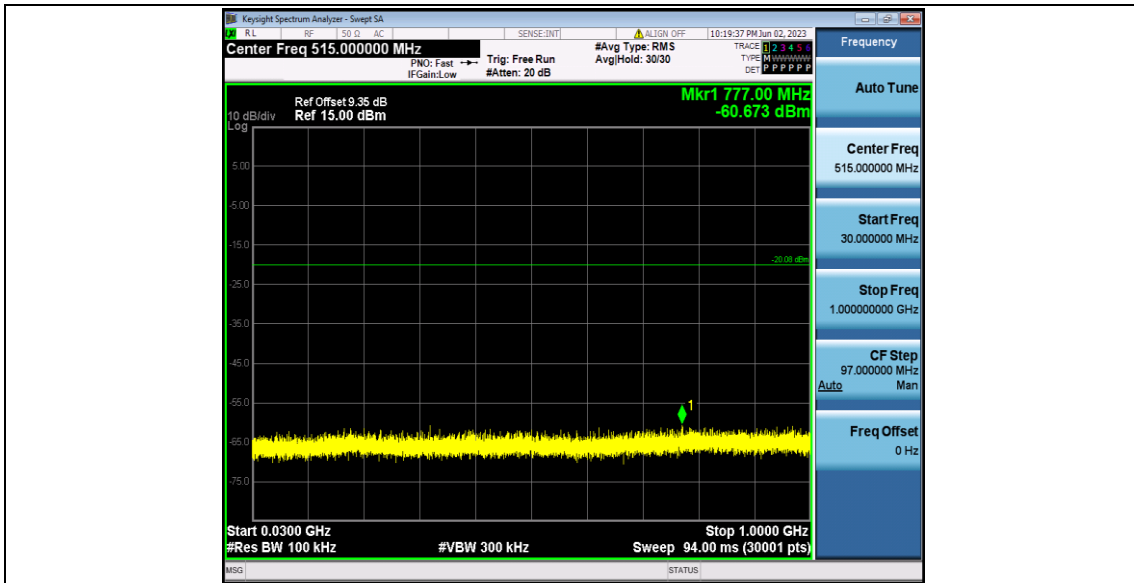
BLE_Ant1_2440_30~1000



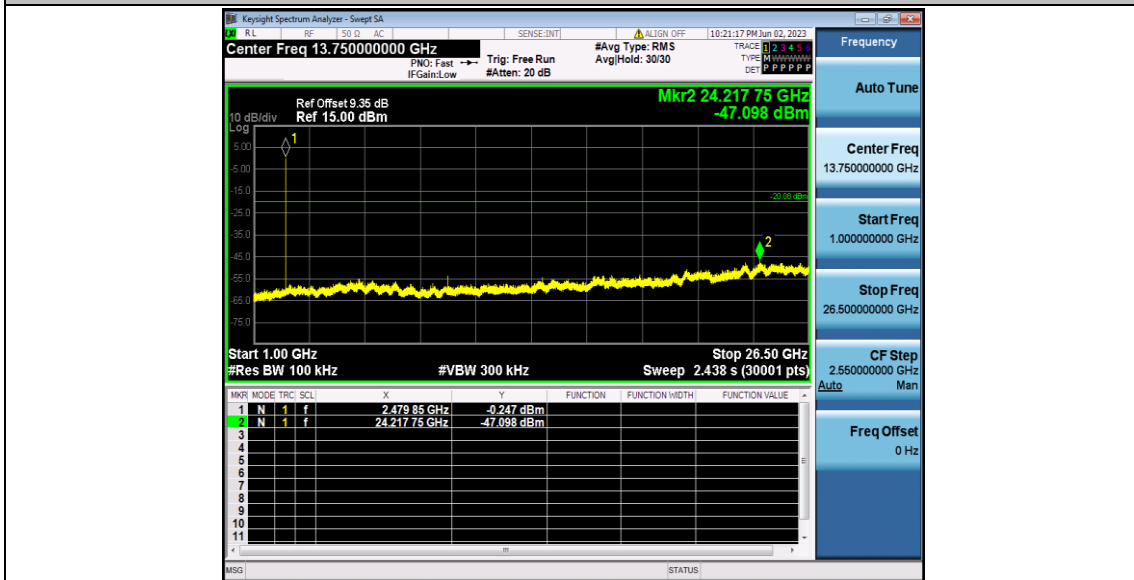
BLE_Ant1_2440_1000~26500



BLE_Ant1_2480_0~Reference



BLE_Ant1_2480_30~1000



BLE_Ant1_2480_1000~26500

Appendix B.7: Emissions in Restricted Bands

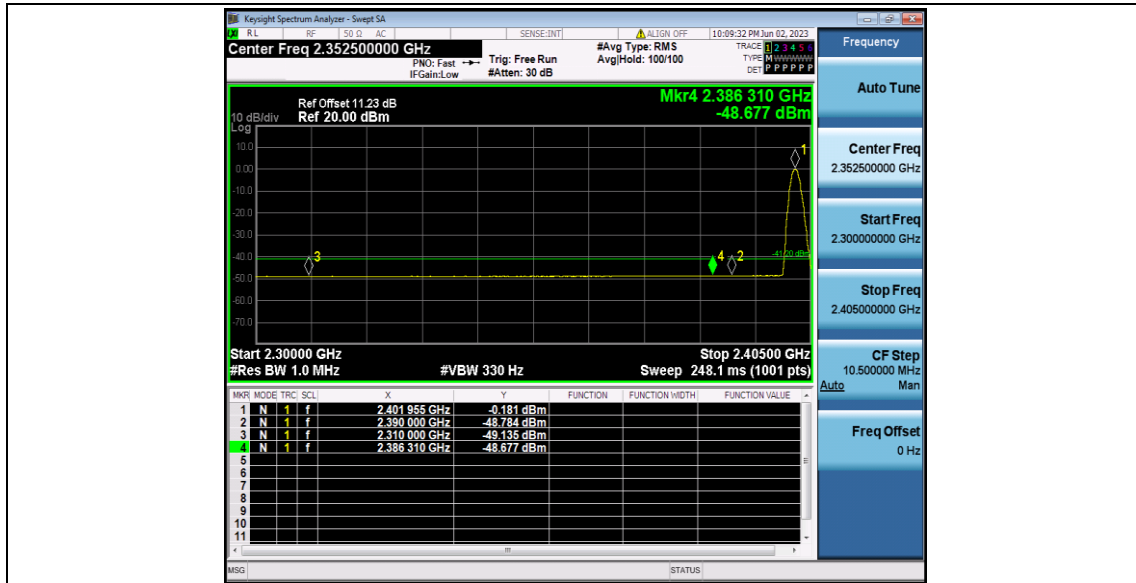
Test Result

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	-49.14	≤-41.20	46.06	≤54	PASS
				AV	2386.310	-48.68	≤-41.20	46.52	≤54	PASS
				AV	2390.000	-48.78	≤-41.20	46.42	≤54	PASS
				Peak	2310.000	-41.86	≤-21.20	53.34	≤74	PASS
				Peak	2373.185	-38.99	≤-21.20	56.21	≤74	PASS
				Peak	2390.000	-43.2	≤-21.20	52.00	≤74	PASS
		High	2480	AV	2483.500	-48.24	≤-41.20	46.96	≤54	PASS
				AV	2483.520	-48.24	≤-41.20	46.96	≤54	PASS
				AV	2500.000	-48.43	≤-41.20	46.77	≤54	PASS
				Peak	2483.500	-40.2	≤-21.20	55.00	≤74	PASS
				Peak	2496.160	-38.81	≤-21.20	56.39	≤74	PASS
				Peak	2500.000	-41.25	≤-21.20	53.95	≤74	PASS

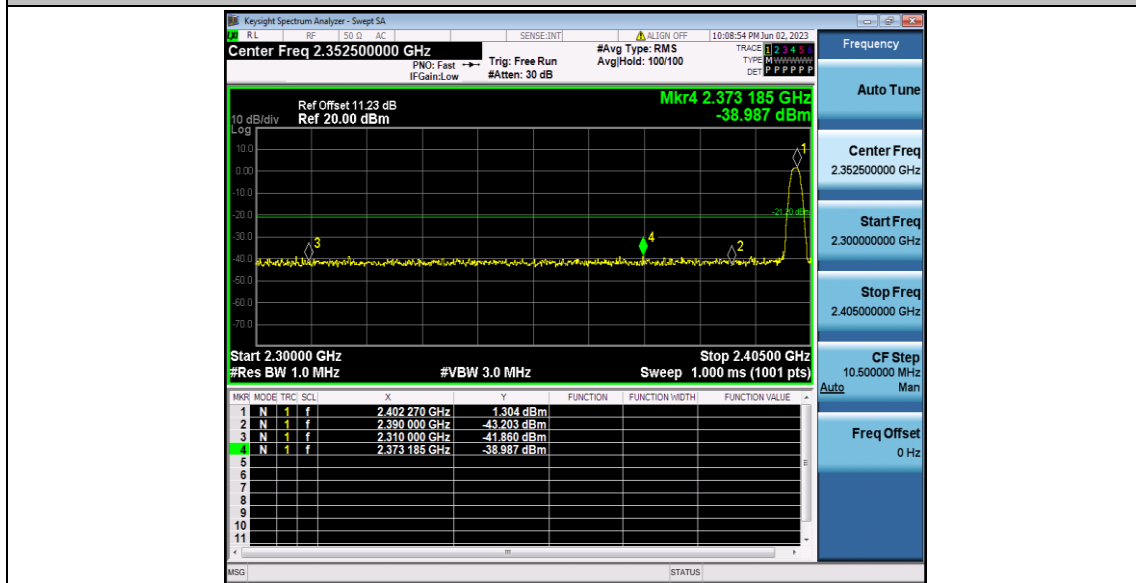
Note:

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.

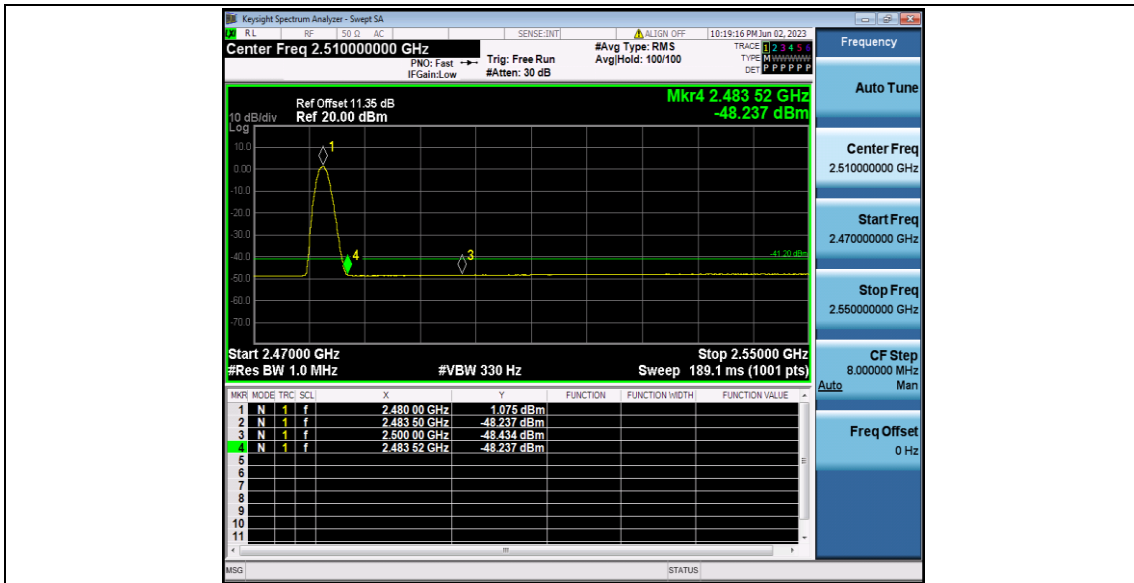
Test Graphs



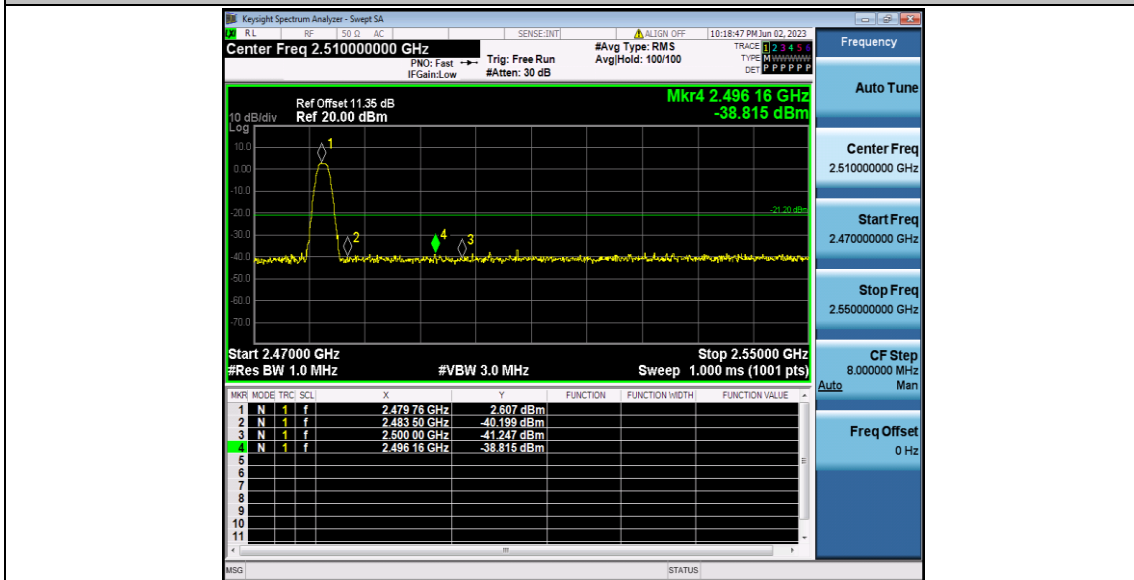
BLE_Ant1_Low_2402_AV



BLE_Ant1_Low_2402_Peak



BLE_Ant1_High_2480_AV



BLE_Ant1_High_2480_Peak