

Case No. : <u>GTS20230704026-1-39</u>
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,
Test Date: <u>2023.8.23</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	Ant2	2402	0.504	2401.676	2402.180	0.5	PASS
		2440	0.612	2439.716	2440.328	0.5	PASS
		2480	0.508	2479.668	2480.176	0.5	PASS

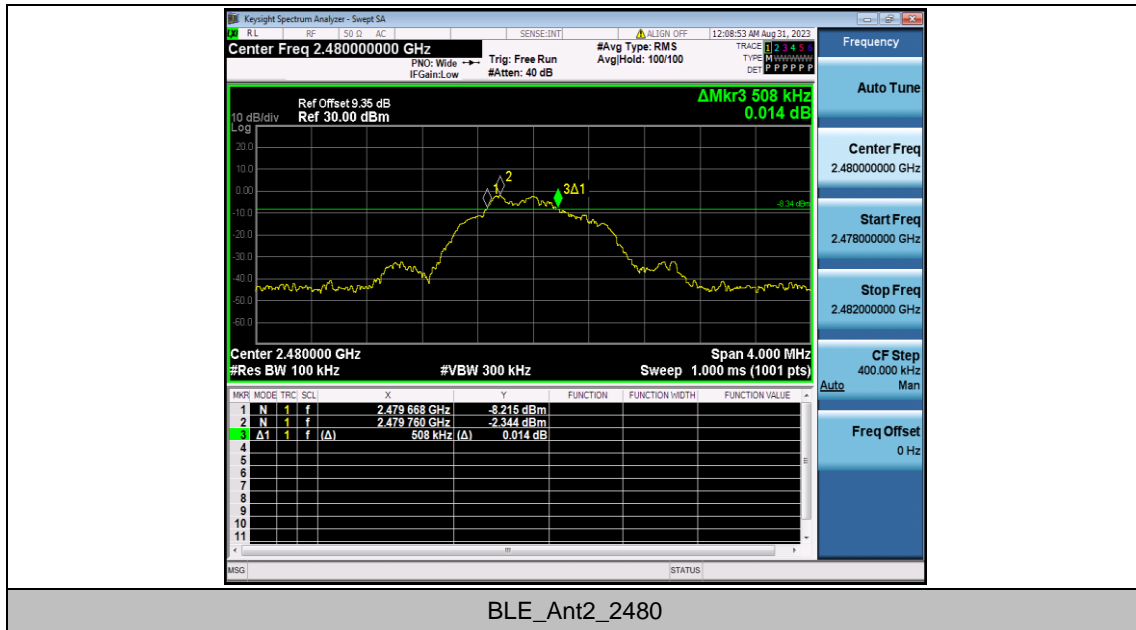
Test Graphs



BLE_Ant2_2402



BLE_Ant2_2440



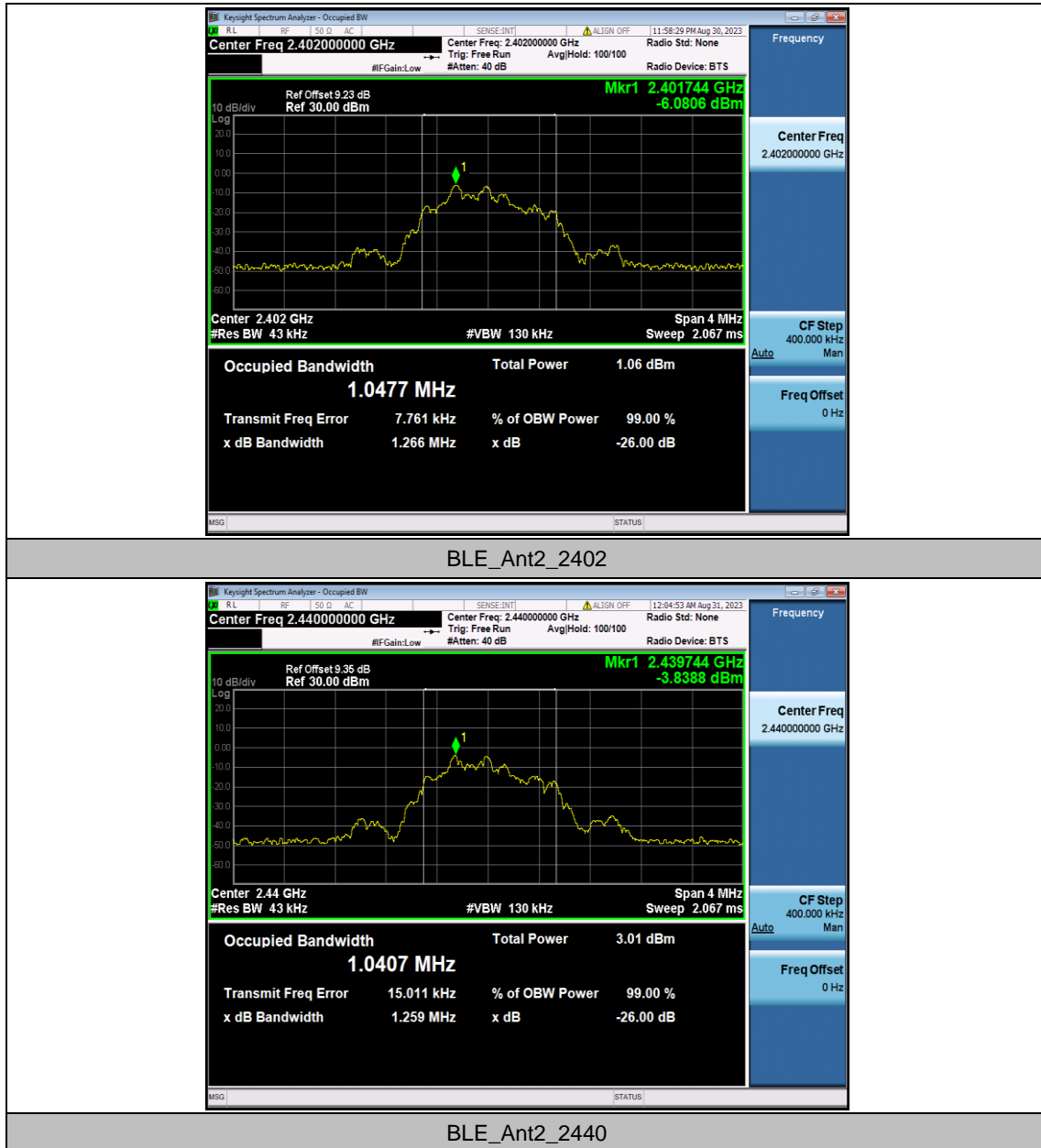
BLE_Ant2_2480

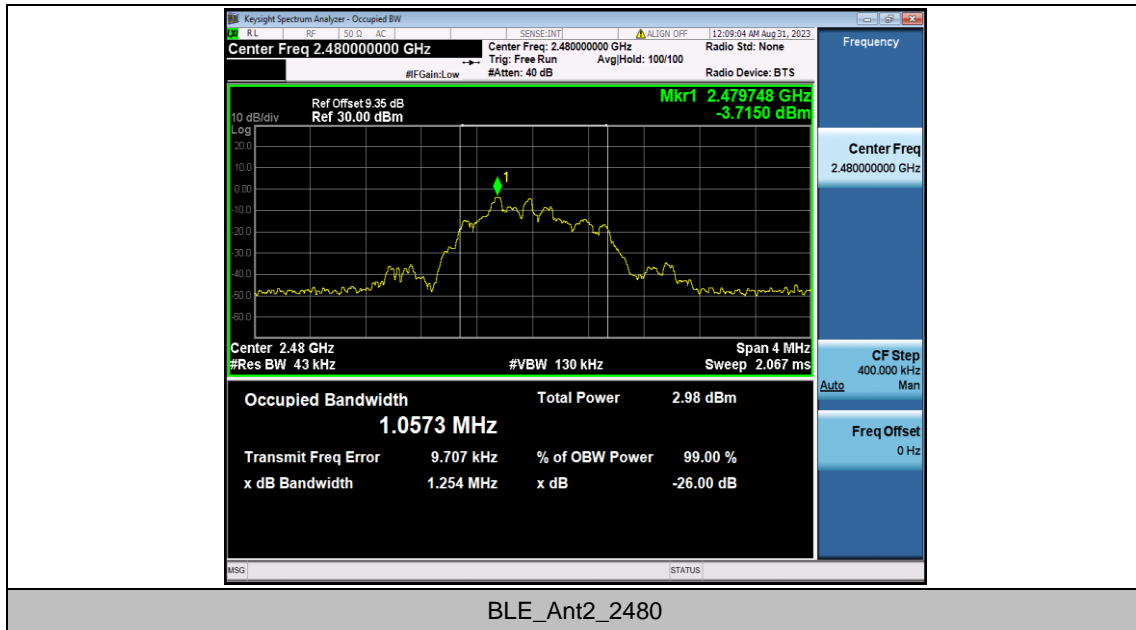
Appendix B.2: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant2	2402	1.0477	2401.484	2402.532	---	---
		2440	1.0407	2439.495	2440.535	---	---
		2480	1.0573	2479.481	2480.538	---	---

Test Graphs





BLE_Ant2_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	Ant2	2402	-3.92	≤30	PASS
		2440	-1.72	≤30	PASS
		2480	-1.7	≤30	PASS

Appendix B.4: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant2	2402	-23.14	≤8.00	PASS
		2440	-21.03	≤8.00	PASS
		2480	-20.88	≤8.00	PASS

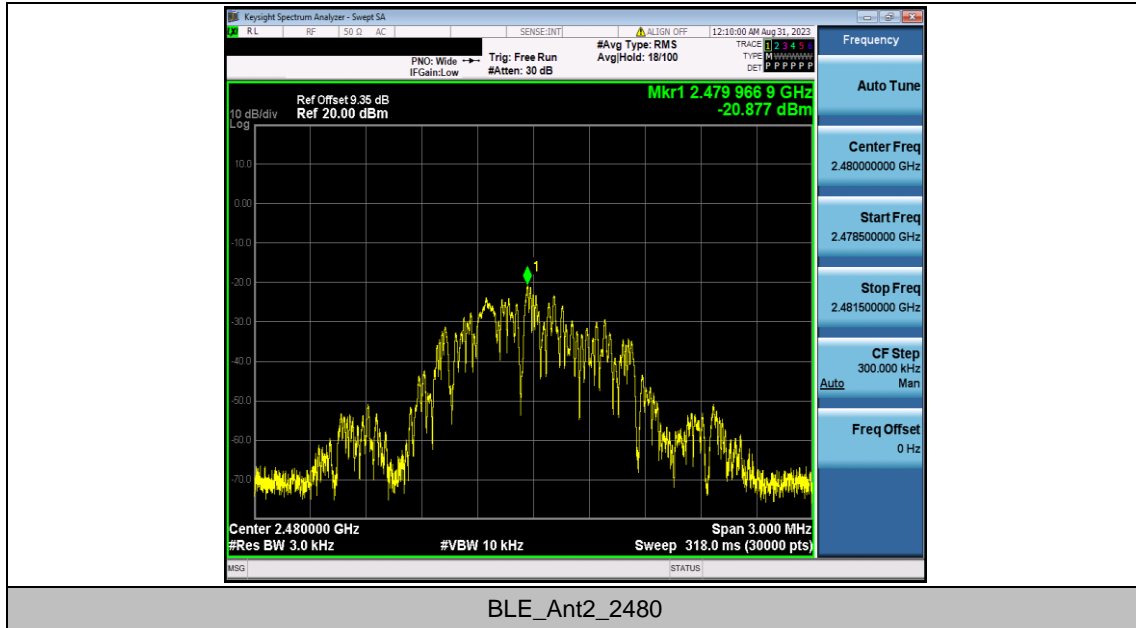
Test Graphs



BLE_Ant2_2402



BLE_Ant2_2440

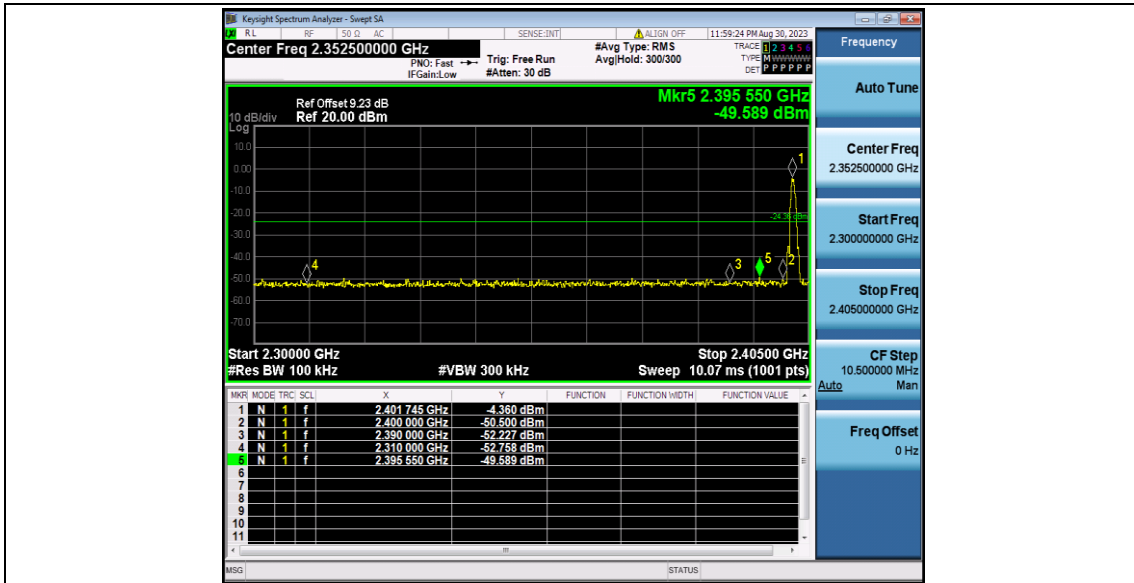


Appendix B.5: Band edge measurements

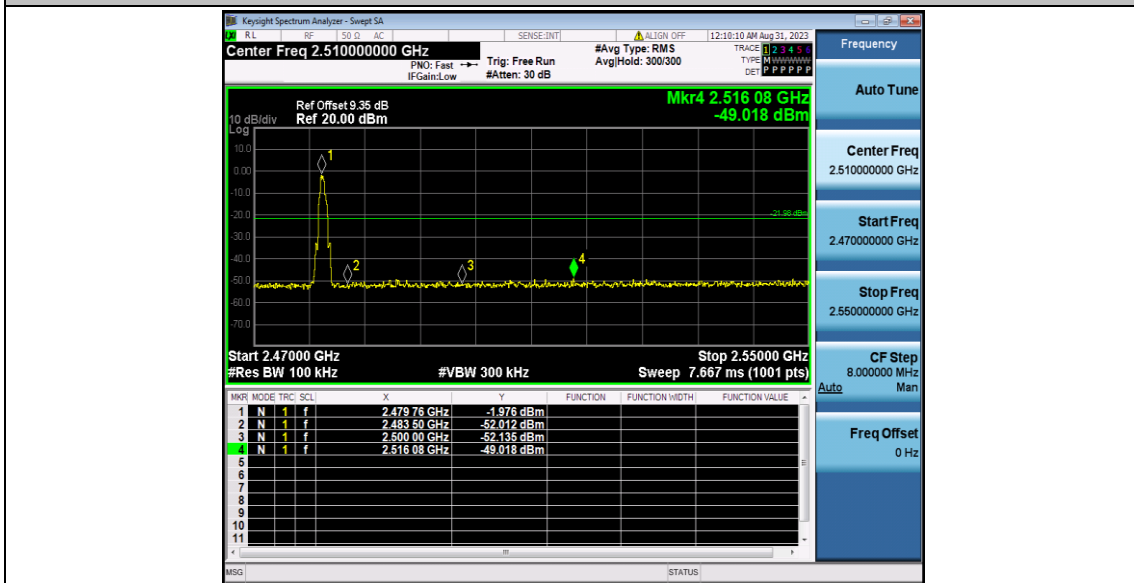
Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant2	Low	2402	-4.36	-49.59	≤-24.36	PASS
		High	2480	-1.98	-49.02	≤-21.98	PASS

Test Graphs



BLE_Ant2_Low_2402



BLE_Ant2_High_2480

Appendix B.6: Conducted Spurious Emission

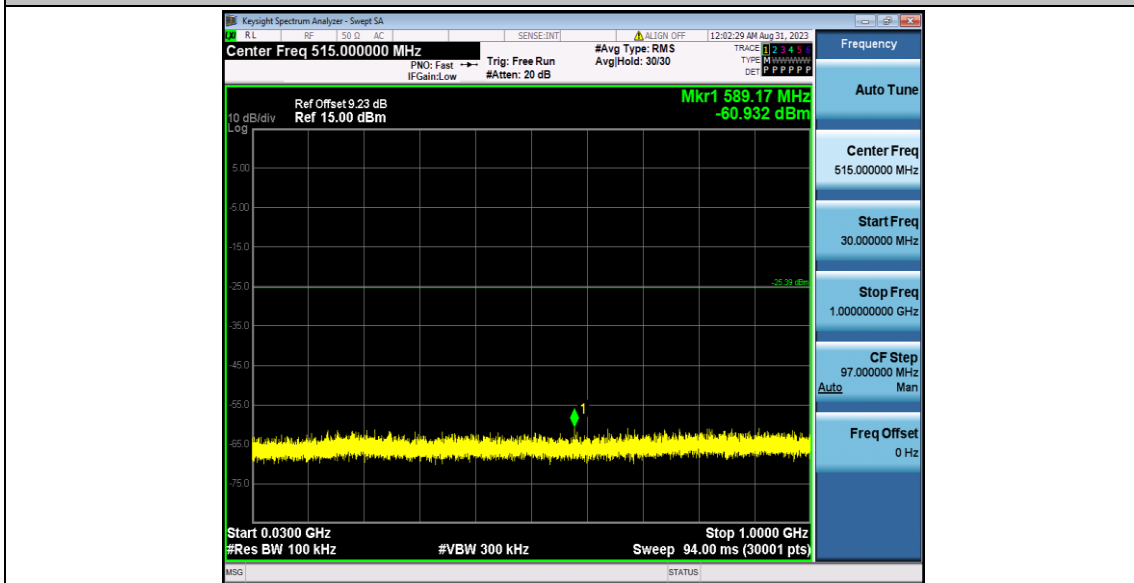
Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant2	2402	Reference	-5.39	-5.39	---	PASS
			30~1000	-5.39	-60.93	≤ -25.39	PASS
			1000~26500	-5.39	-47.89	≤ -25.39	PASS
		2440	Reference	-2.73	-2.73	---	PASS
			30~1000	-2.73	-60.28	≤ -22.73	PASS
			1000~26500	-2.73	-48.17	≤ -22.73	PASS
		2480	Reference	-2.03	-2.03	---	PASS
			30~1000	-2.03	-60.56	≤ -22.03	PASS
			1000~26500	-2.03	-47.66	≤ -22.03	PASS

Test Graphs



BLE_Ant2_2402_0~Reference



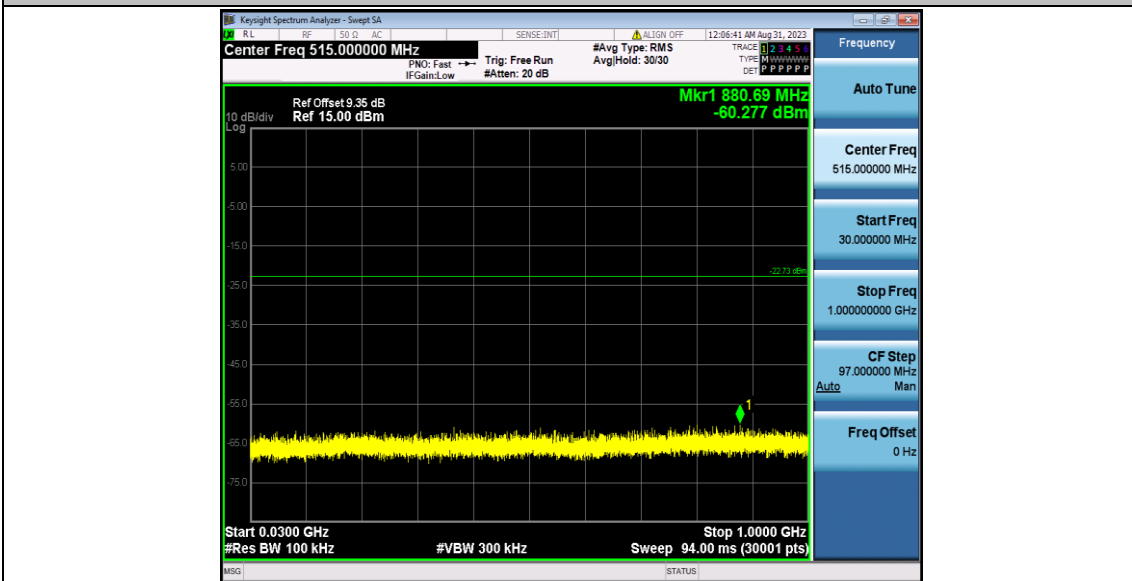
BLE_Ant2_2402_30~1000



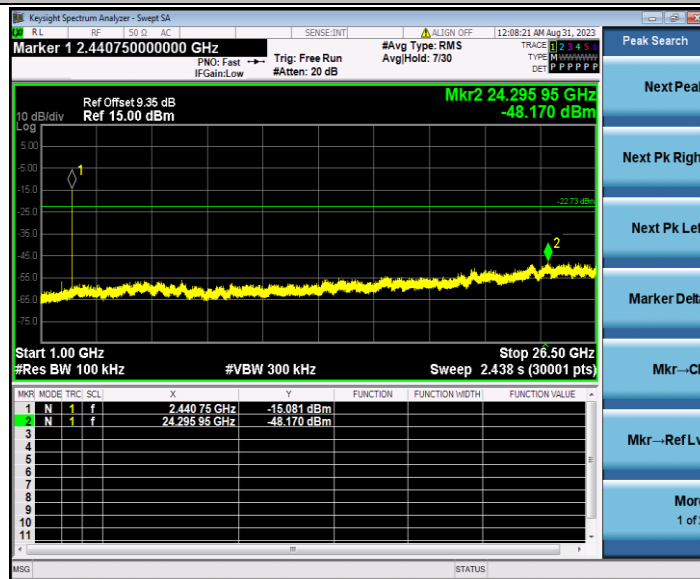
BLE_Ant2_2402_1000~26500



BLE_Ant2_2440_0~Reference



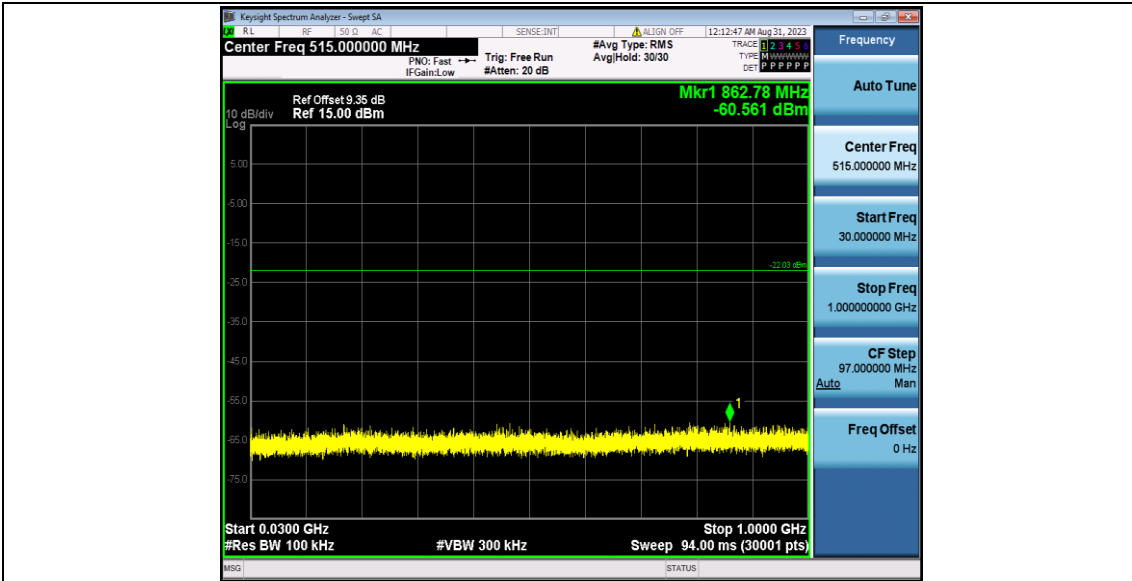
BLE_Ant1_2440_30~1000



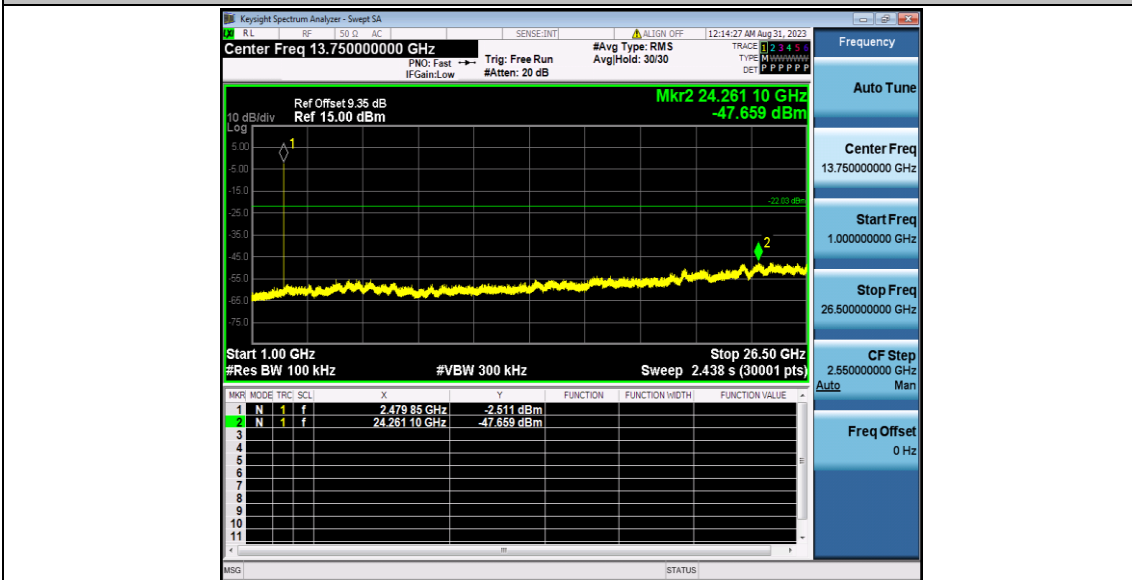
BLE_Ant2_2440_1000~26500



BLE_Ant2_2480_0~Reference



BLE_Ant2_2480_30~1000



BLE_Ant2_2480_1000~26500