

Case No. : <u>GTS20231018019-1-2</u>
Ambient Condition: <u>23 °C, 49 %RH, Atmos100.1Kpa,</u>
Test Date: <u>2023.11.6</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	0.620	2401.796	2402.416	0.5	PASS
		2440	0.512	2439.788	2440.300	0.5	PASS
		2480	0.512	2479.796	2480.308	0.5	PASS

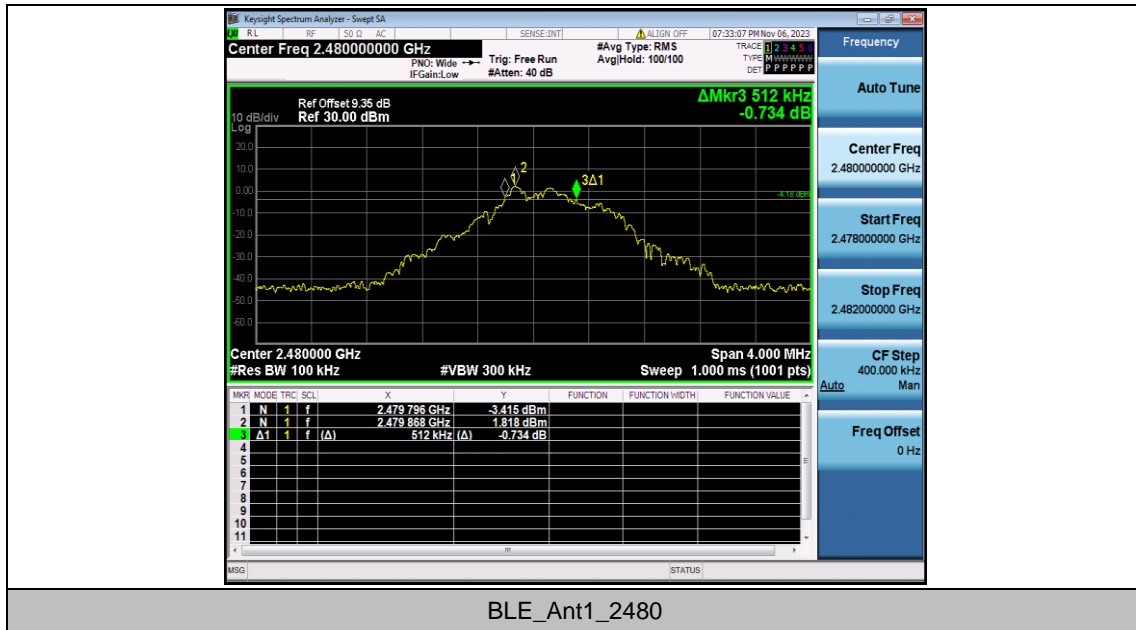
Test Graphs



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	1.0649	2401.587	2402.652	---	---
		2440	1.0635	2439.583	2440.647	---	---
		2480	1.1090	2479.542	2480.651	---	---

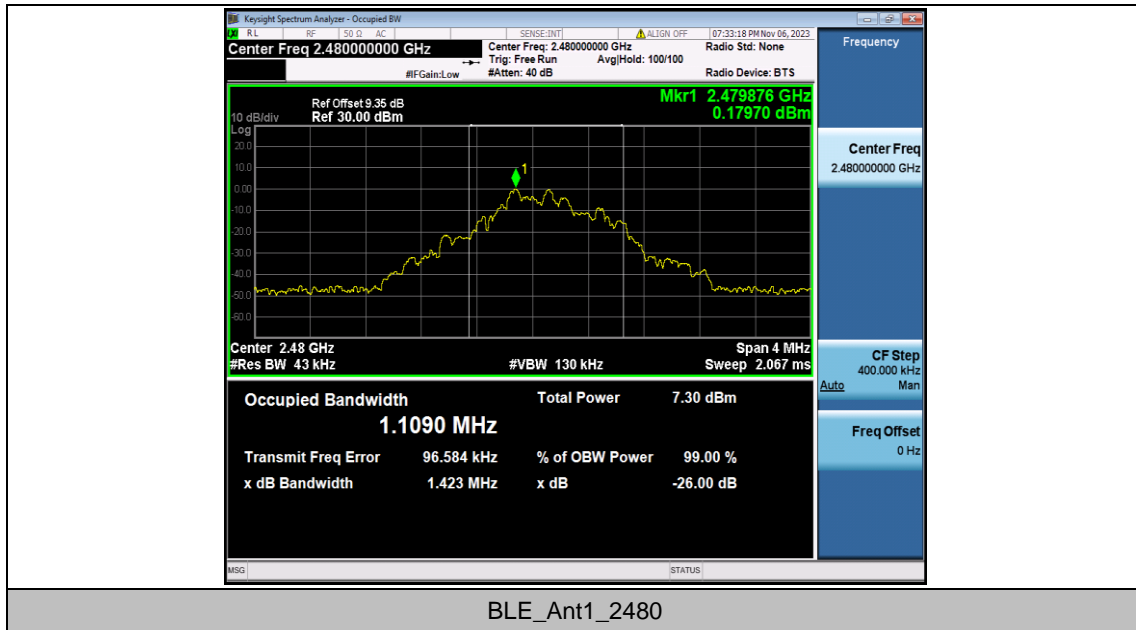
Test Graphs



BLE_Ant1_2402



BLE_Ant1_2440



BLE_Ant1_2480

Appendix B.3: Maximum conducted output power

Test Result Peak

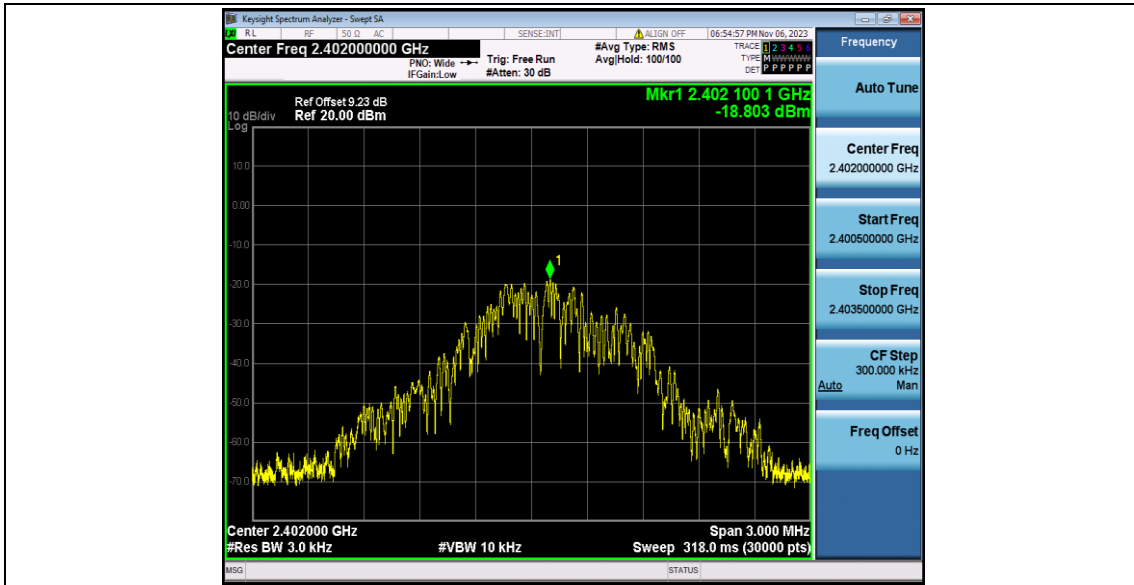
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	1.51	≤30	PASS
		2440	2.62	≤30	PASS
		2480	2.10	≤30	PASS

Appendix B.4: Maximum power spectral density

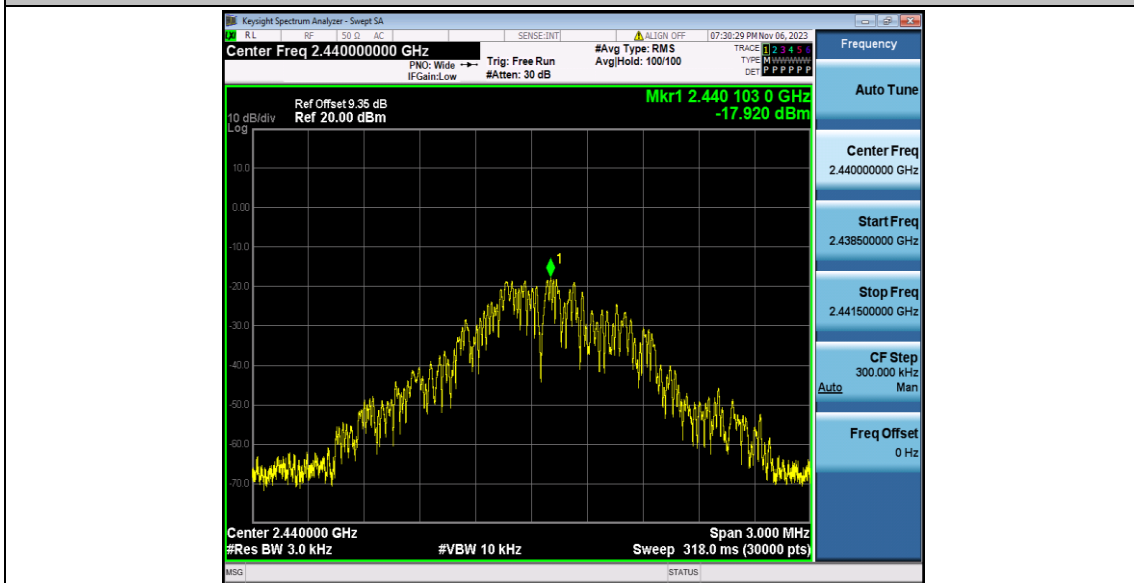
Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-18.8	≤8.00	PASS
		2440	-17.92	≤8.00	PASS
		2480	-18.91	≤8.00	PASS

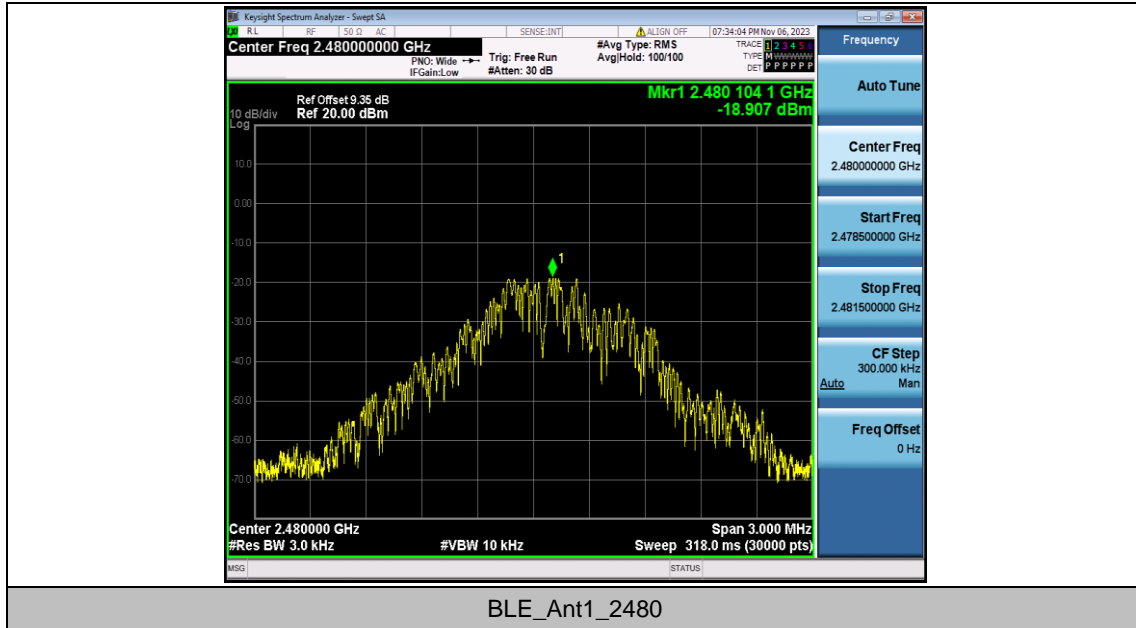
Test Graphs



BLE_Ant1_2402



BLE_Ant1_2440

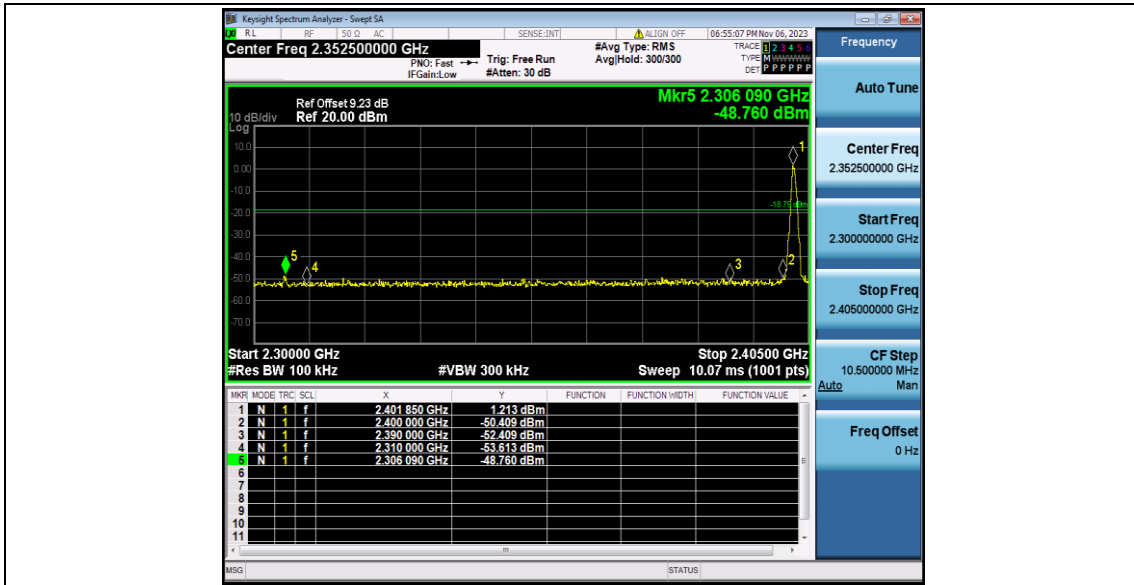


Appendix B.5: Band edge measurements

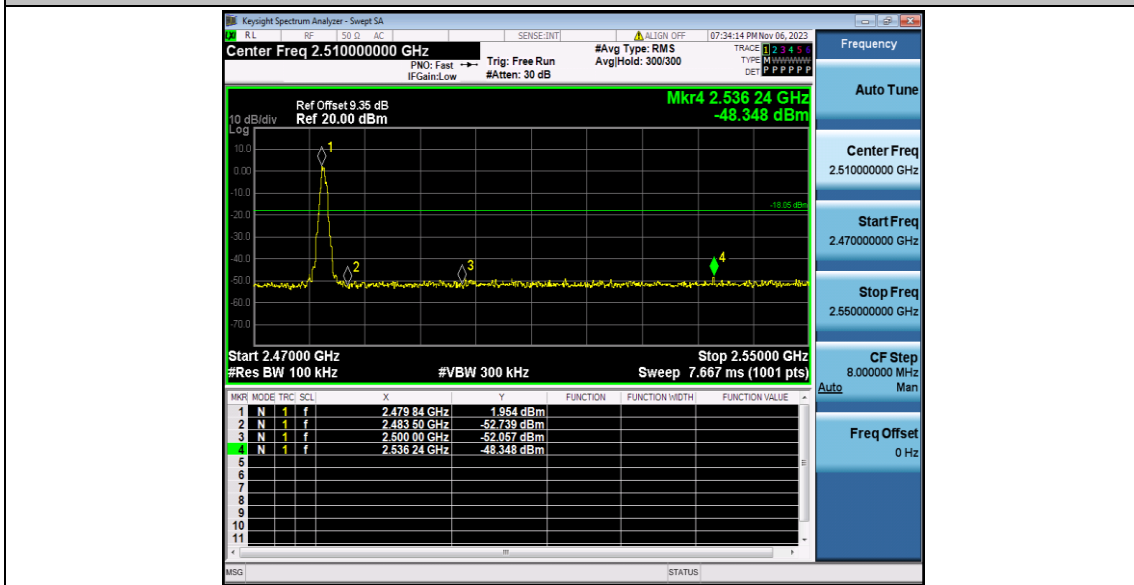
Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	1.21	-48.76	≤-18.79	PASS
		High	2480	1.95	-48.35	≤-18.05	PASS

Test Graphs



BLE_Ant1_Low_2402



BLE_Ant1_High_2480

Appendix B.6: Conducted Spurious Emission

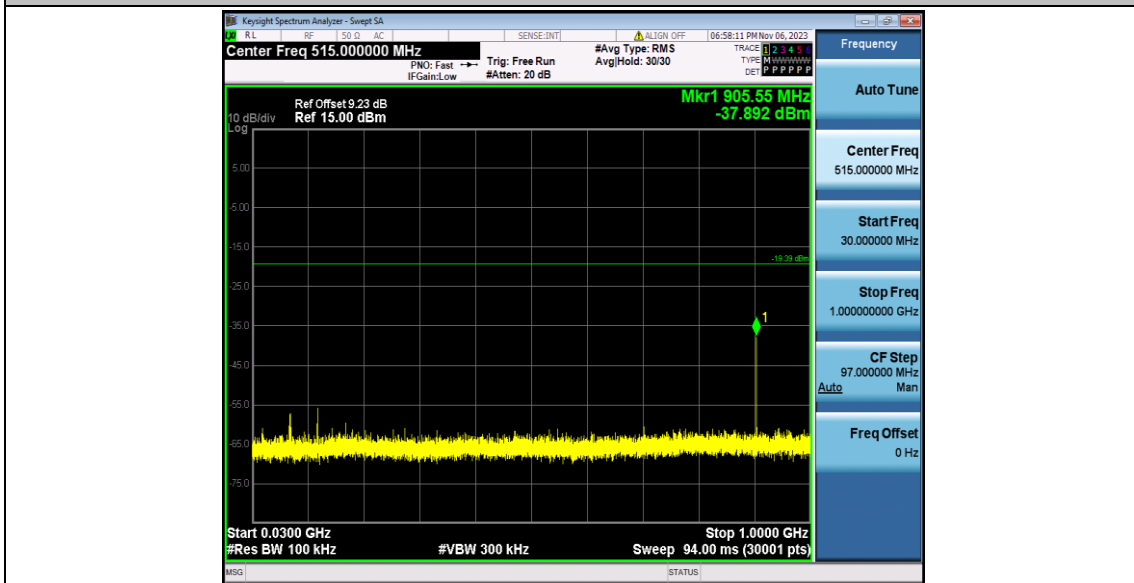
Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	0.61	0.61	---	PASS
			30~1000	0.61	-37.89	≤ -19.39	PASS
			1000~26500	0.61	-43.53	≤ -19.39	PASS
		2440	Reference	2.35	2.35	---	PASS
			30~1000	2.35	-54.71	≤ -17.65	PASS
			1000~26500	2.35	-41.52	≤ -17.65	PASS
		2480	Reference	1.74	1.74	---	PASS
			30~1000	1.74	-57.19	≤ -18.26	PASS
			1000~26500	1.74	-42.75	≤ -18.26	PASS

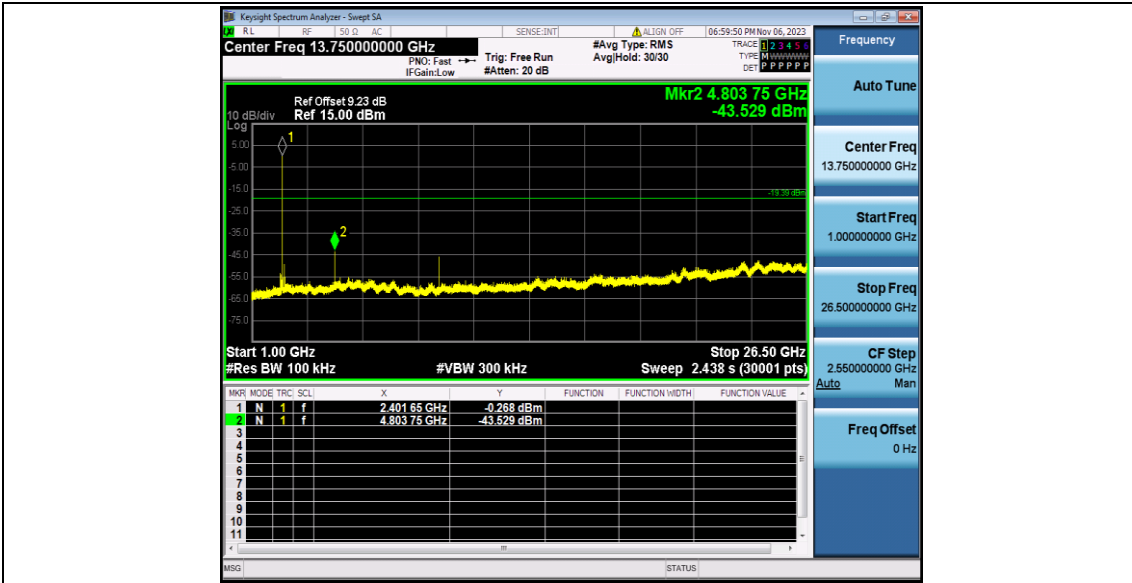
Test Graphs



BLE_Ant1_2402_0~Reference



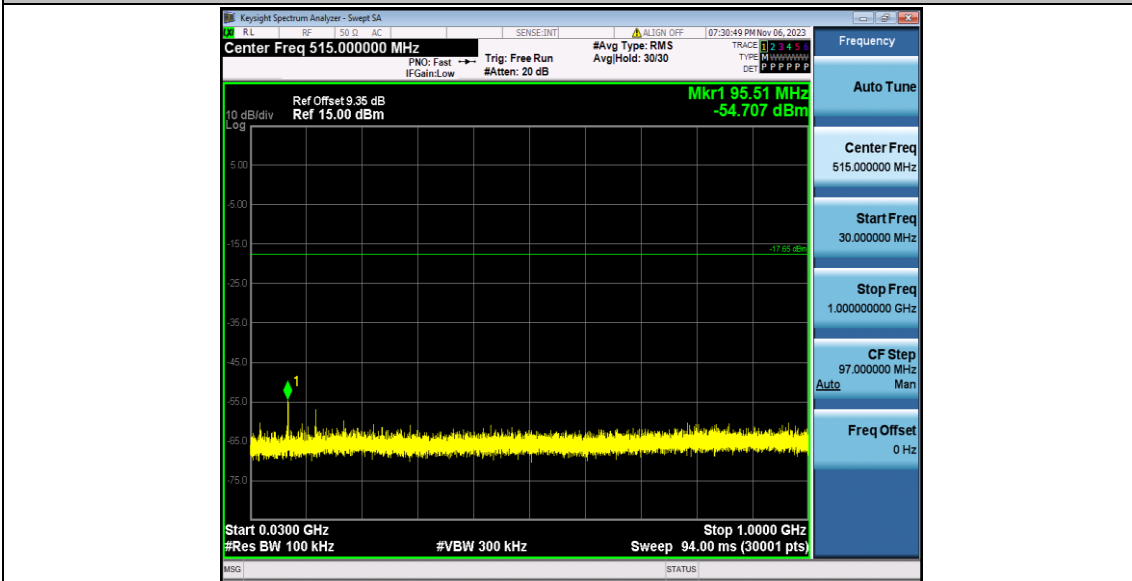
BLE_Ant1_2402_30~1000



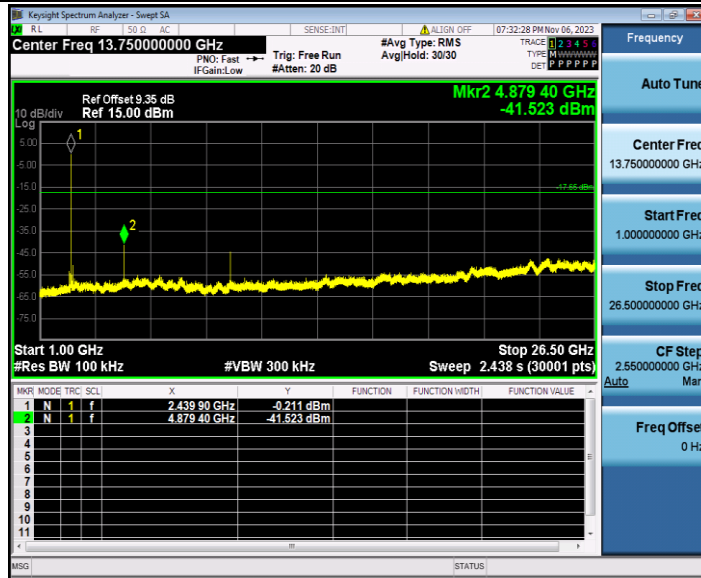
BLE_Ant1_2402_1000~26500



BLE_Ant1_2440_0~Reference



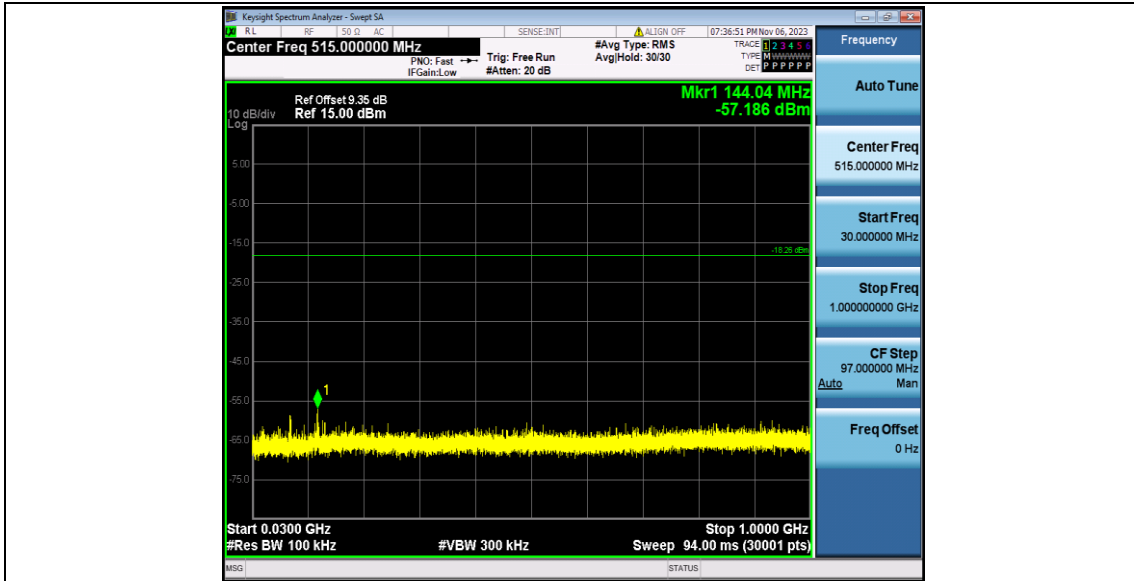
BLE_Ant1_2440_30~1000



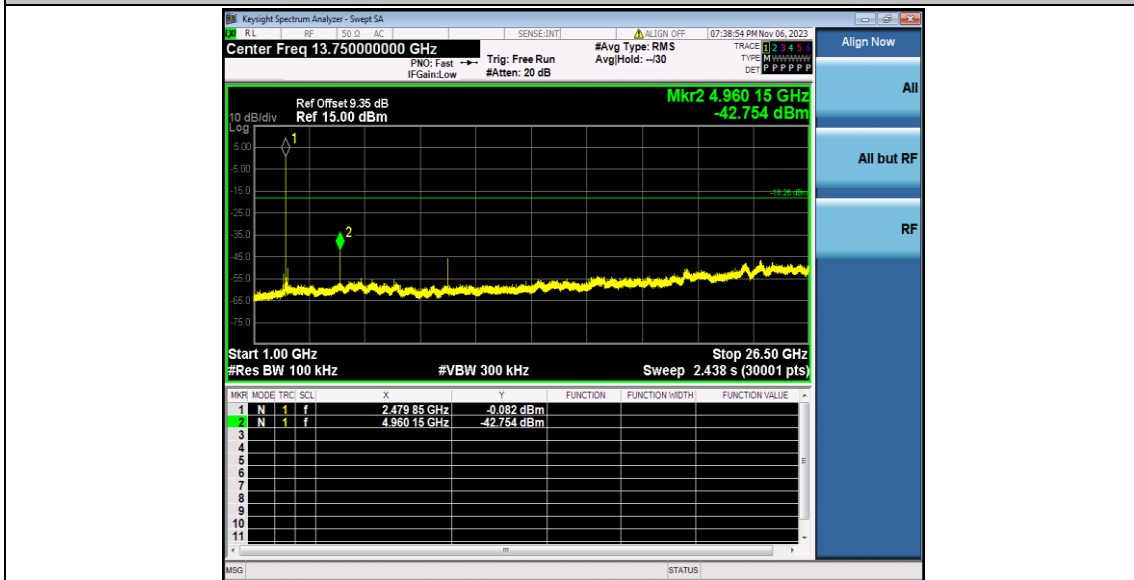
BLE_Ant1_2440_1000~26500



BLE_Ant1_2480_0~Reference



BLE_Ant1_2480_30~1000



BLE_Ant1_2480_1000~26500

Appendix B.7: Emissions in Restricted Bands

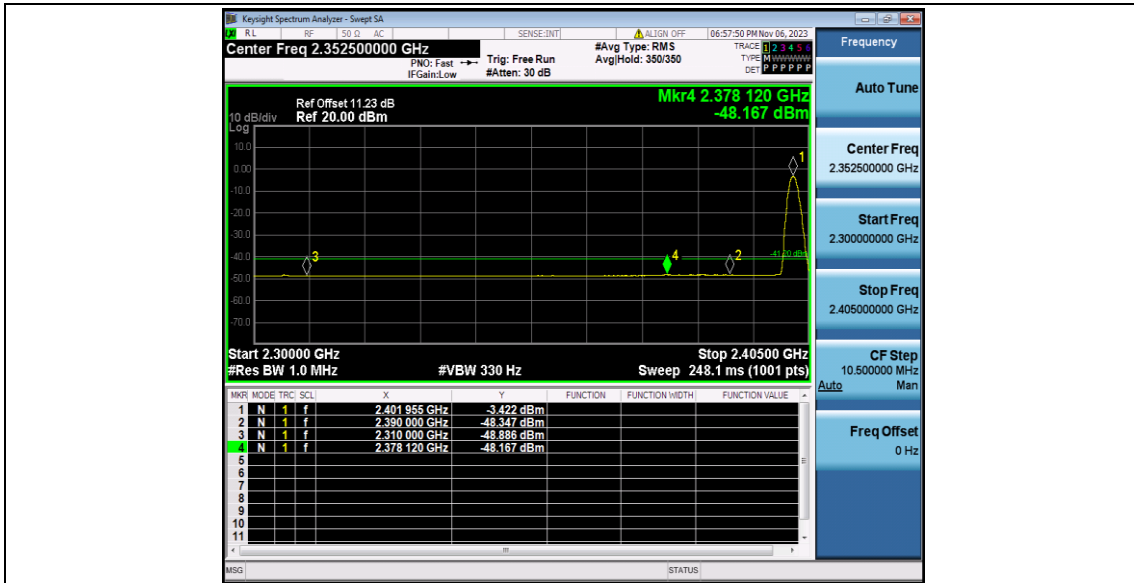
Test Result

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	-48.89	≤-41.20	46.31	≤54	PASS
				AV	2378.120	-48.17	≤-41.20	47.03	≤54	PASS
				AV	2390.000	-48.35	≤-41.20	46.85	≤54	PASS
				Peak	2310.000	-39.36	≤-21.20	55.84	≤74	PASS
				Peak	2386.940	-38.18	≤-21.20	57.02	≤74	PASS
				Peak	2390.000	-41.08	≤-21.20	54.12	≤74	PASS
		High	2480	AV	2483.500	-48.21	≤-41.20	46.99	≤54	PASS
				AV	2499.040	-47.93	≤-41.20	47.27	≤54	PASS
				AV	2500.000	-48.05	≤-41.20	47.15	≤54	PASS
				Peak	2483.500	-36.94	≤-21.20	58.26	≤74	PASS
				Peak	2483.520	-36.94	≤-21.20	58.26	≤74	PASS
				Peak	2500.000	-40.36	≤-21.20	54.84	≤74	PASS

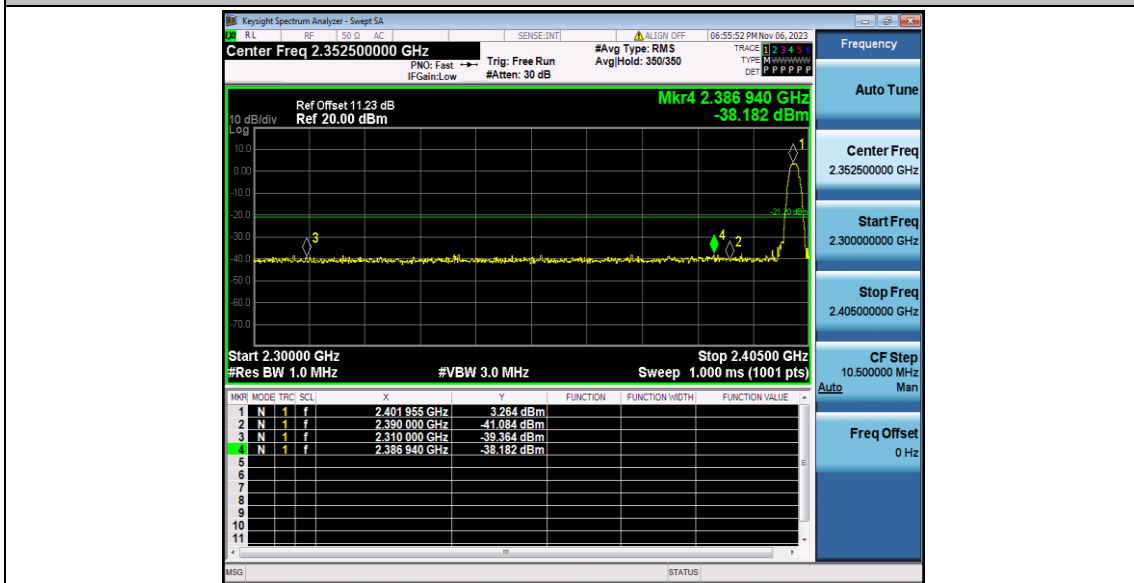
Note:

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.

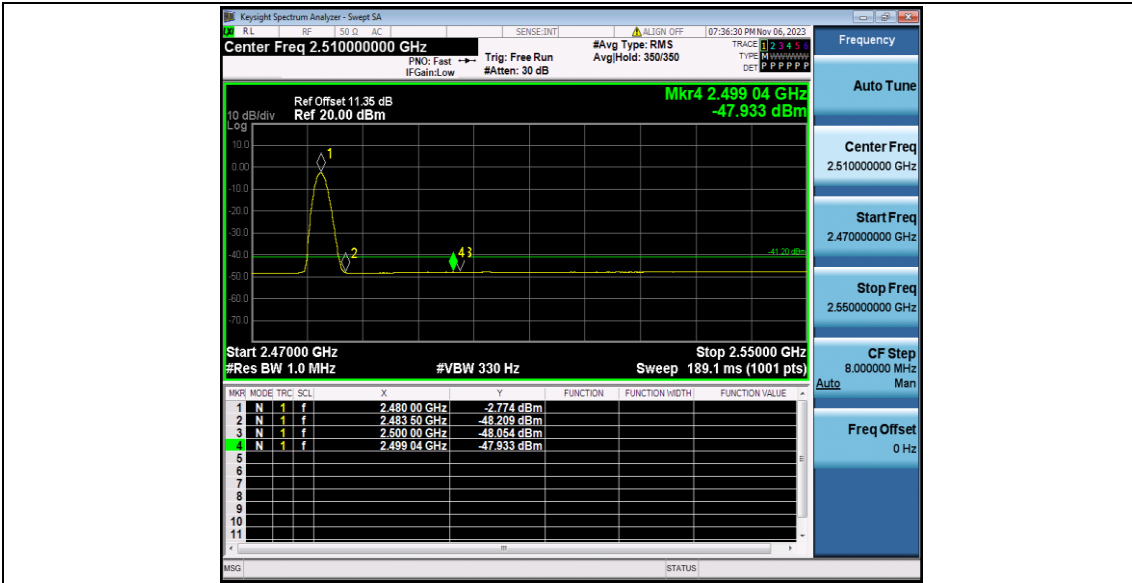
Test Graphs



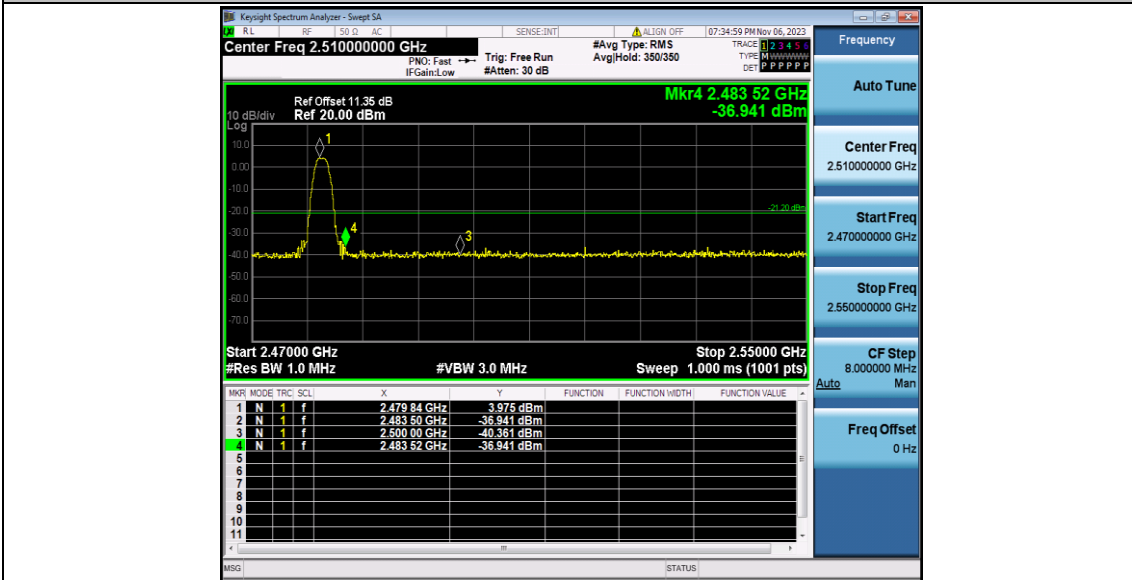
BLE_Ant1_Low_2402_AV



BLE_Ant1_Low_2402_Peak



BLE_Ant1_High_2480_AV



BLE_Ant1_High_2480_Peak