

Case No. : <u>GTS20231117002-1-2</u>
Ambient Condition: <u>25</u> °C, <u>48</u> %RH, Atmos100.1Kpa,
Test Date: <u>2023.11.28</u> Test Engineer: <u>Evan ouyang</u>

Appendix B.1: DTS Bandwidth

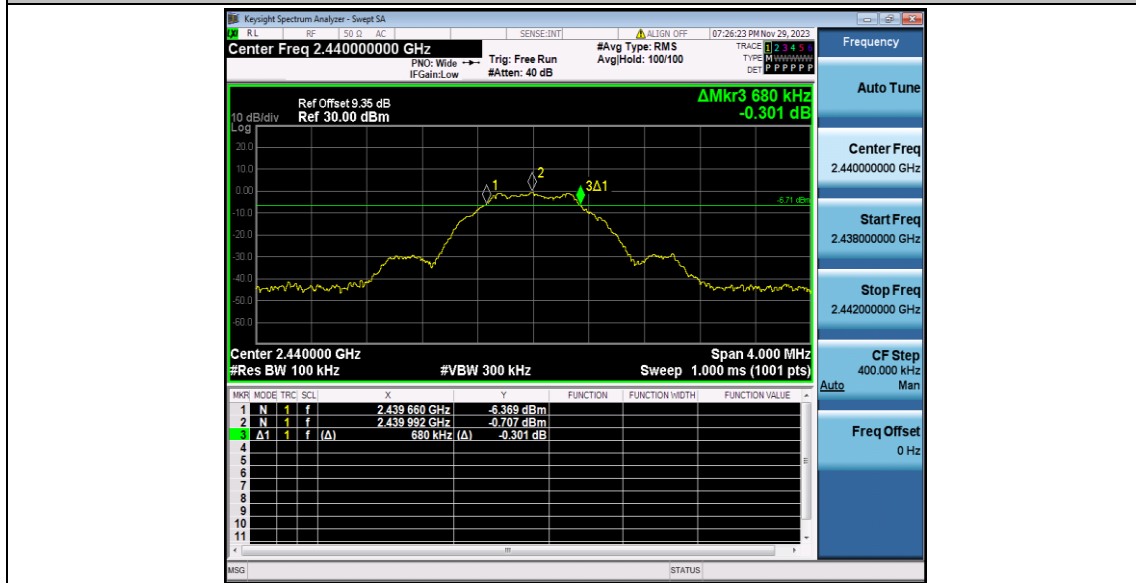
Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.700	2401.648	2402.348	0.5	PASS
		2440	0.680	2439.660	2440.340	0.5	PASS
		2480	0.736	2479.624	2480.360	0.5	PASS

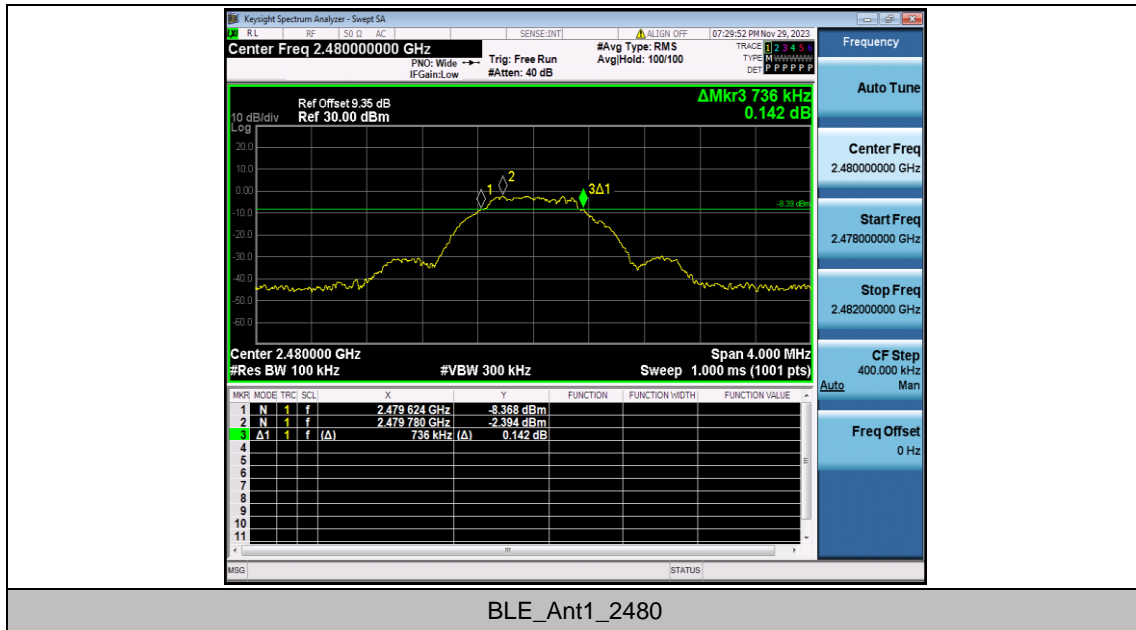
Test Graphs



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	1.0407	2401.486	2402.527	---	---
		2440	1.0409	2439.486	2440.527	---	---
		2480	1.0366	2479.488	2480.524	---	---

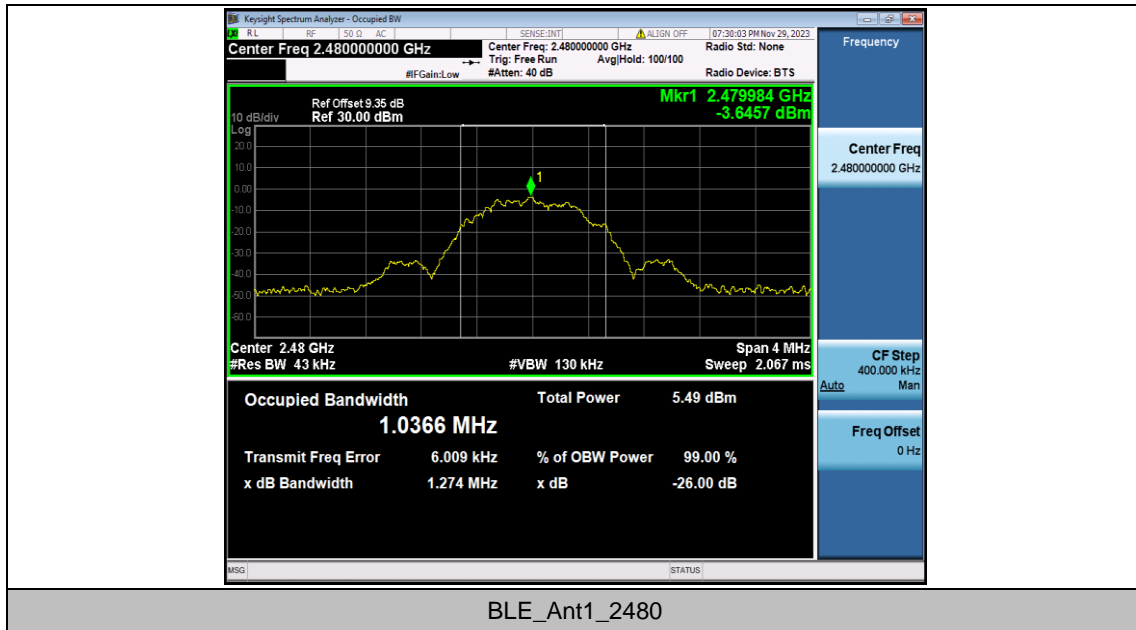
Test Graphs



BLE_Ant1_2402



BLE_Ant1_2440



BLE_Ant1_2480

Appendix B.3: Maximum conducted output power

Test Result Peak

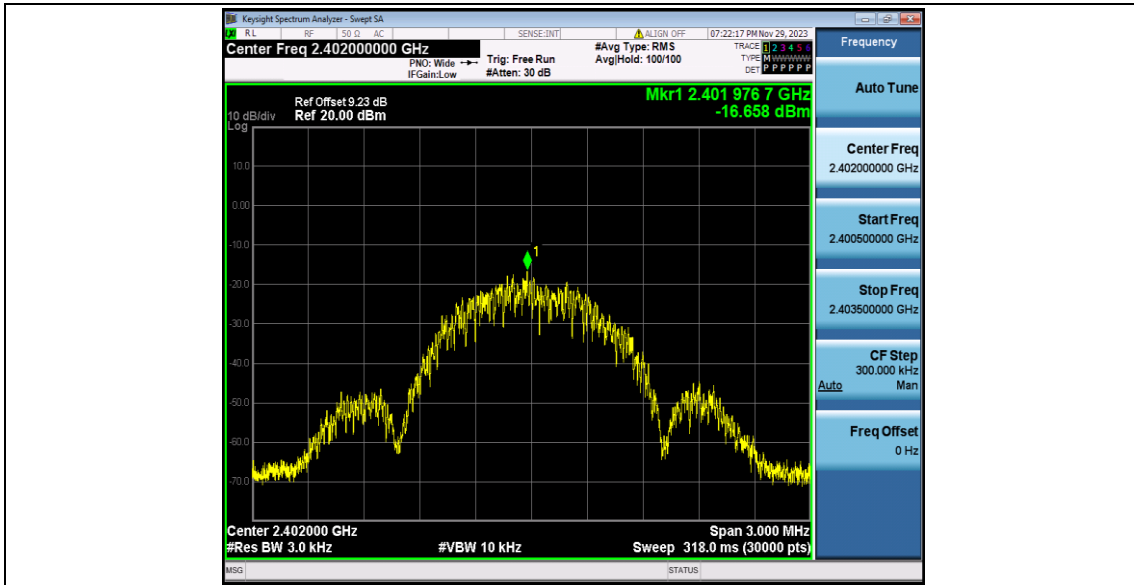
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	-1.49	≤30	PASS
		2440	0.23	≤30	PASS
		2480	-0.82	≤30	PASS

Appendix B.4: Maximum power spectral density

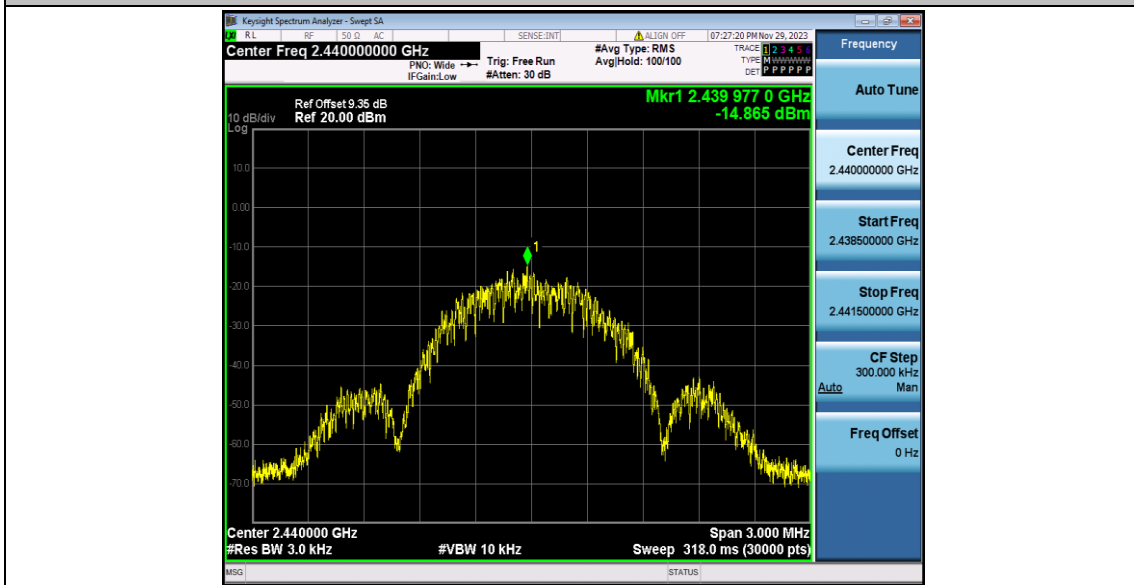
Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-16.66	≤8.00	PASS
		2440	-14.87	≤8.00	PASS
		2480	-15.78	≤8.00	PASS

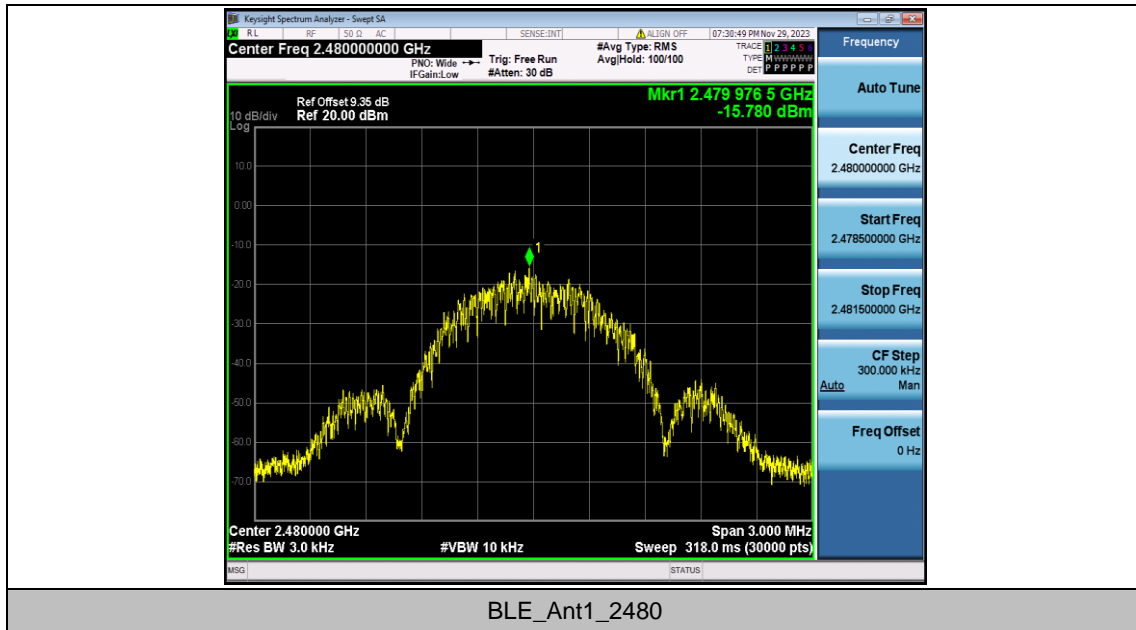
Test Graphs



BLE_Ant1_2402



BLE_Ant1_2440

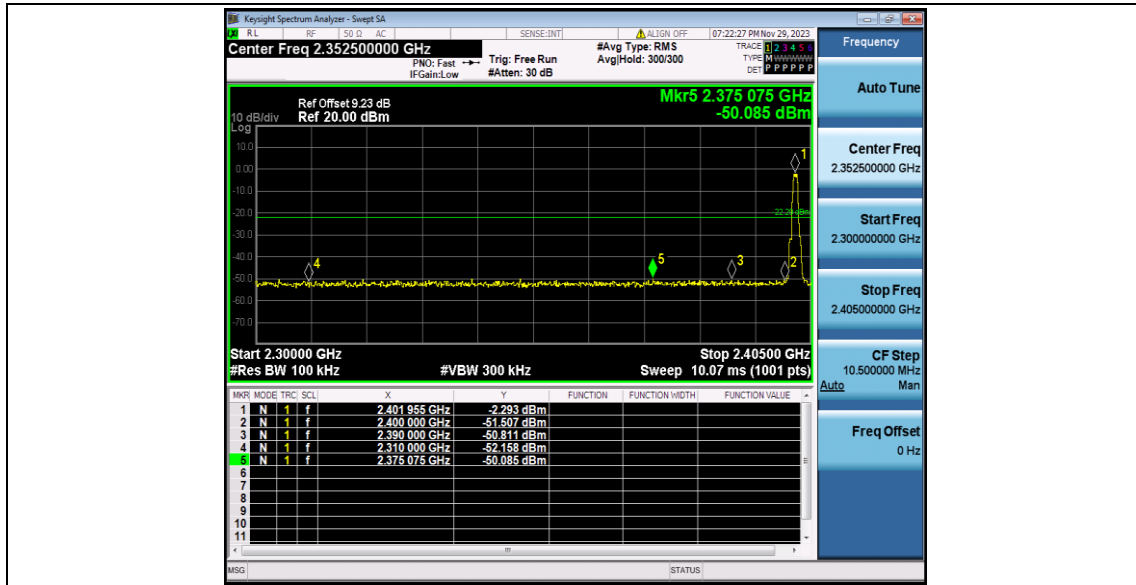


Appendix B.5: Band edge measurements

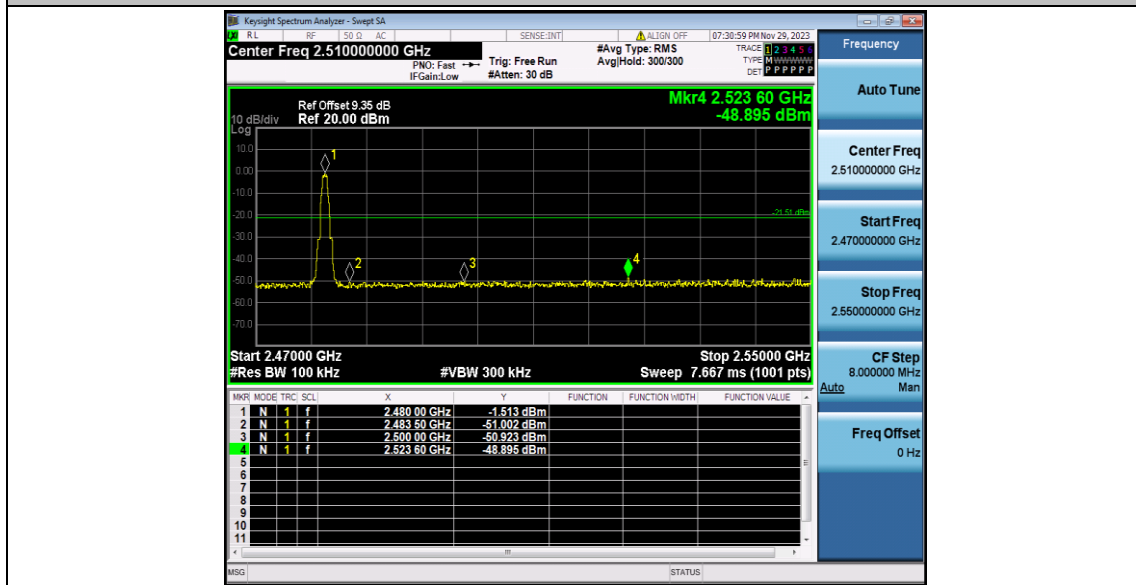
Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	-2.29	-50.09	≤-22.29	PASS
		High	2480	-1.51	-48.9	≤-21.51	PASS

Test Graphs



BLE_Ant1_Low_2402



BLE_Ant1_High_2480

Appendix B.6: Conducted Spurious Emission

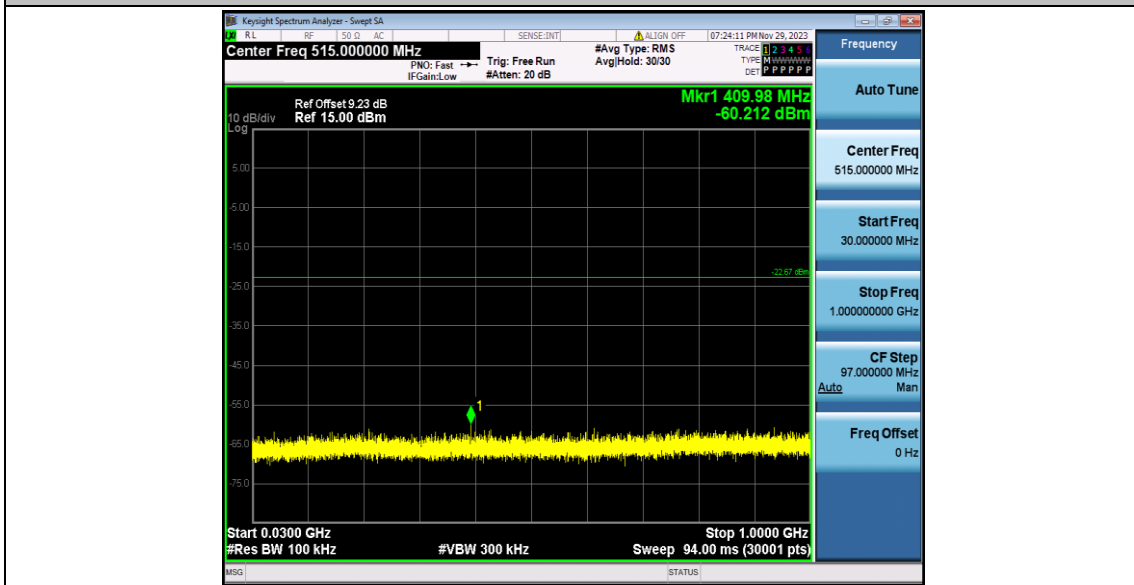
Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	-2.67	-2.67	---	PASS
			30~1000	-2.67	-60.21	≤ -22.67	PASS
			1000~26500	-2.67	-47.46	≤ -22.67	PASS
		2440	Reference	-1.08	-1.08	---	PASS
			30~1000	-1.08	-59.98	≤ -21.08	PASS
			1000~26500	-1.08	-47.43	≤ -21.08	PASS
		2480	Reference	-1.66	-1.66	---	PASS
			30~1000	-1.66	-60.33	≤ -21.66	PASS
			1000~26500	-1.66	-47.51	≤ -21.66	PASS

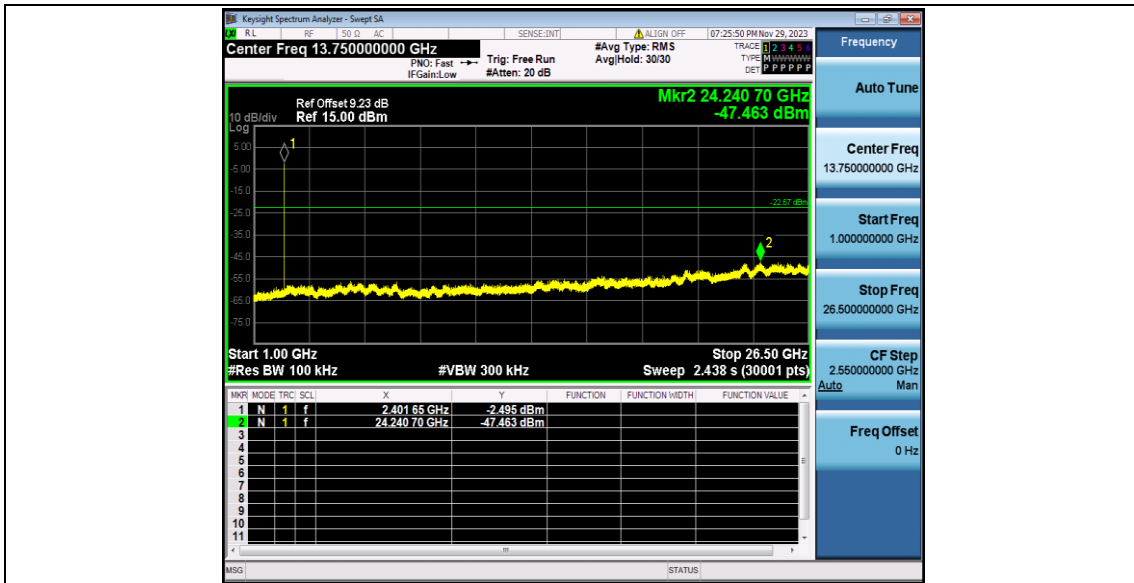
Test Graphs



BLE_Ant1_2402_0~Reference



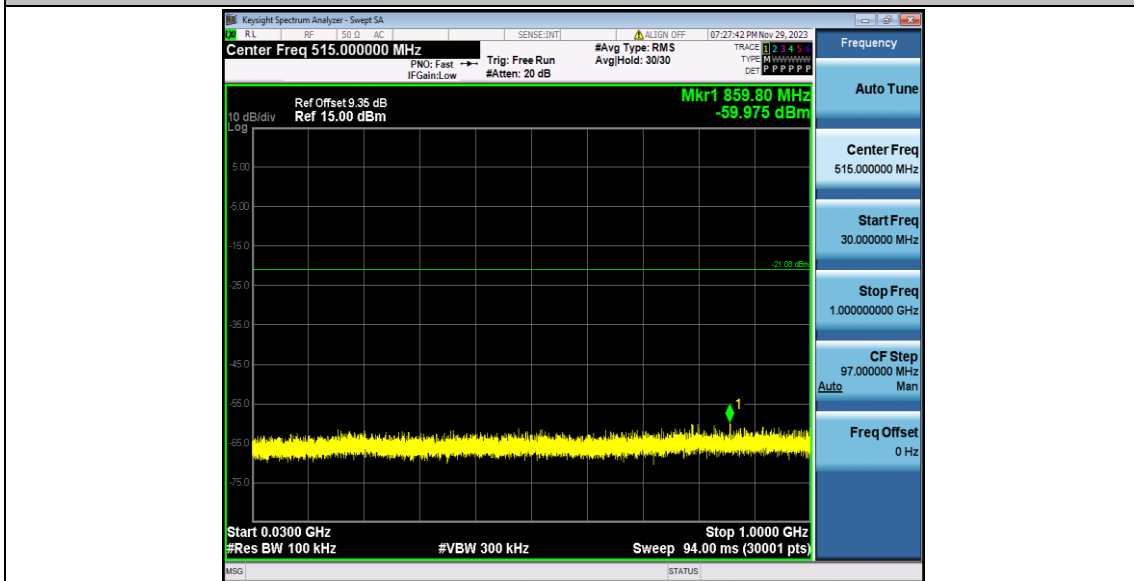
BLE_Ant1_2402_30~1000



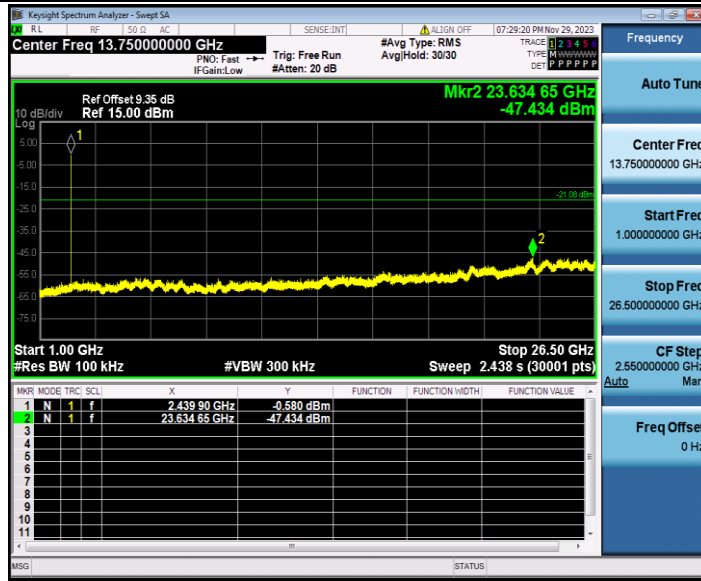
BLE_Ant1_2402_1000~26500



BLE_Ant1_2440_0~Reference



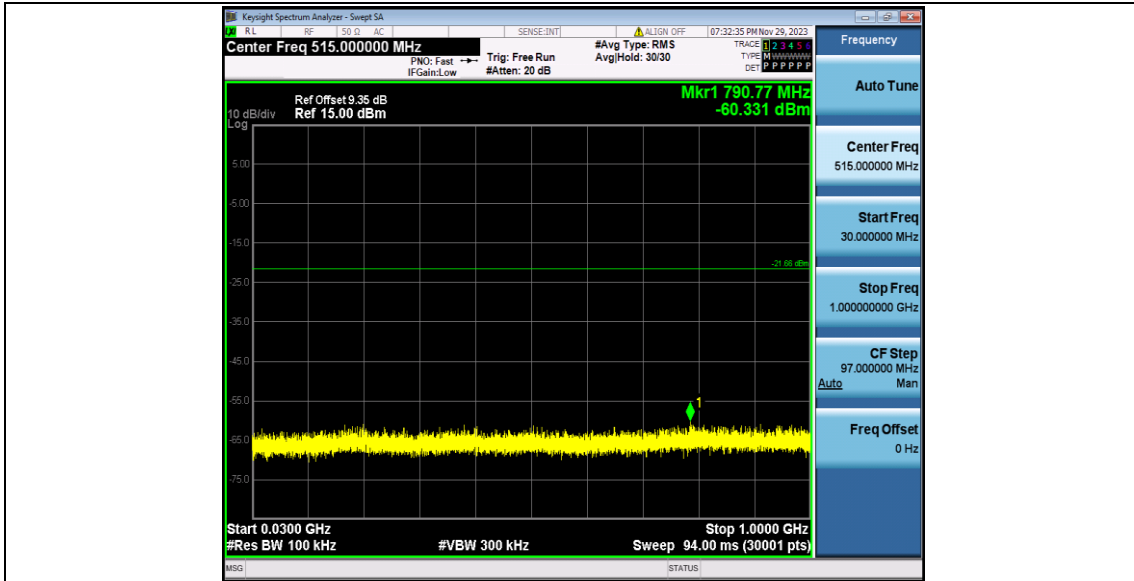
BLE_Ant1_2440_30~1000



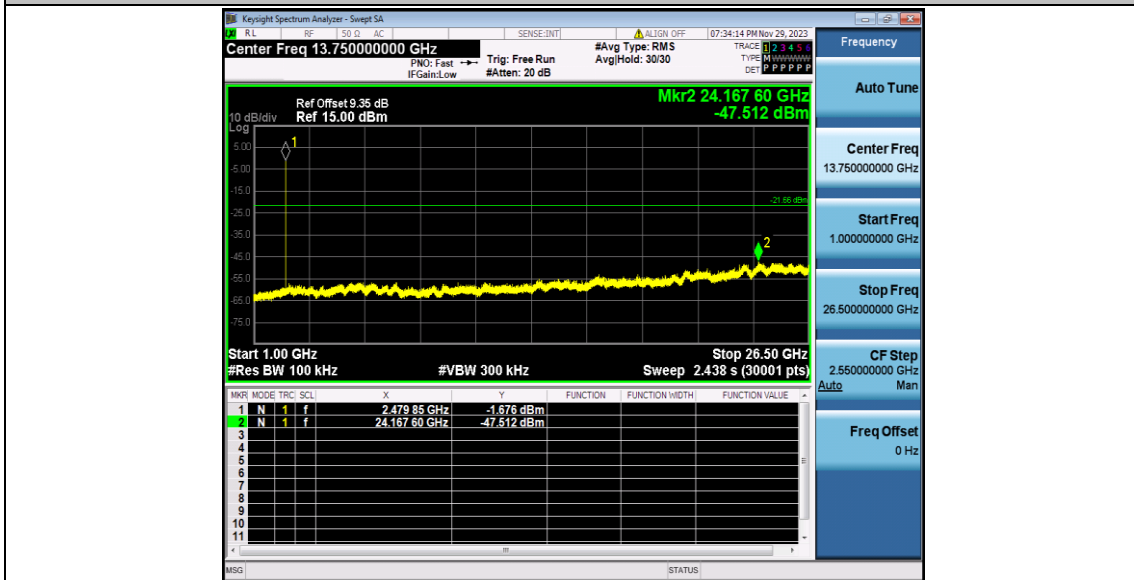
BLE_Ant1_2440_1000~26500



BLE_Ant1_2480_0~Reference



BLE_Ant1_2480_30~1000



BLE_Ant1_2480_1000~26500

Appendix B.7: Emissions in Restricted Bands

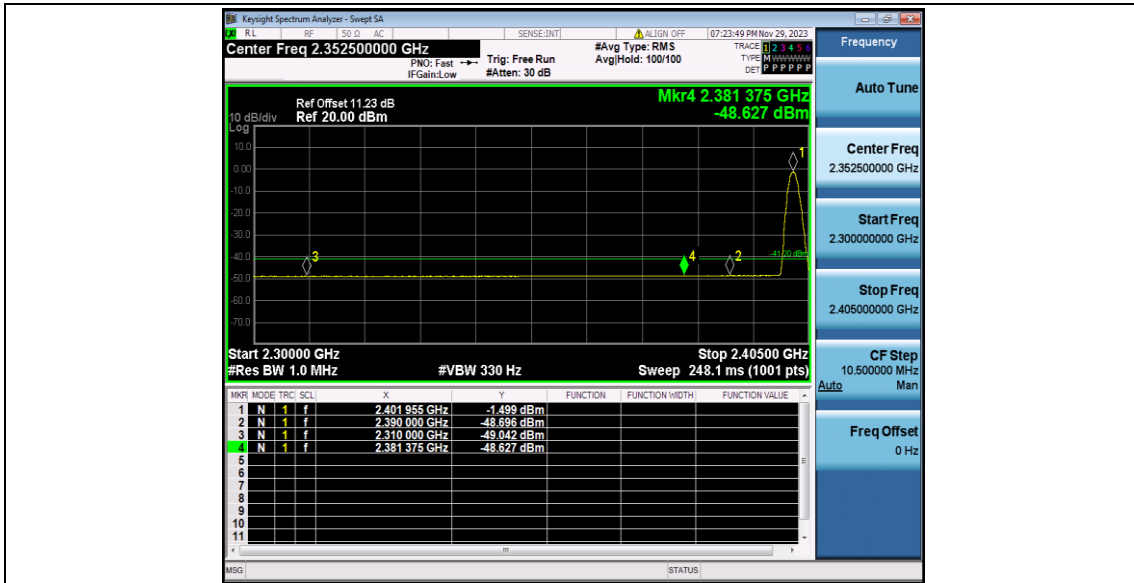
Test Result

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	-49.04	≤-41.20	46.16	≤54	PASS
				AV	2381.375	-48.63	≤-41.20	46.57	≤54	PASS
				AV	2390.000	-48.7	≤-41.20	46.50	≤54	PASS
				Peak	2310.000	-40.87	≤-21.20	54.33	≤74	PASS
				Peak	2356.595	-38.73	≤-21.20	56.47	≤74	PASS
				Peak	2390.000	-41.08	≤-21.20	54.12	≤74	PASS
		High	2480	AV	2483.500	-48.28	≤-41.20	46.92	≤54	PASS
				AV	2483.520	-48.28	≤-41.20	46.92	≤54	PASS
				AV	2500.000	-48.3	≤-41.20	46.90	≤54	PASS
				Peak	2483.500	-42.04	≤-21.20	53.16	≤74	PASS
				Peak	2484.320	-38.5	≤-21.20	56.70	≤74	PASS
				Peak	2500.000	-40.65	≤-21.20	54.55	≤74	PASS

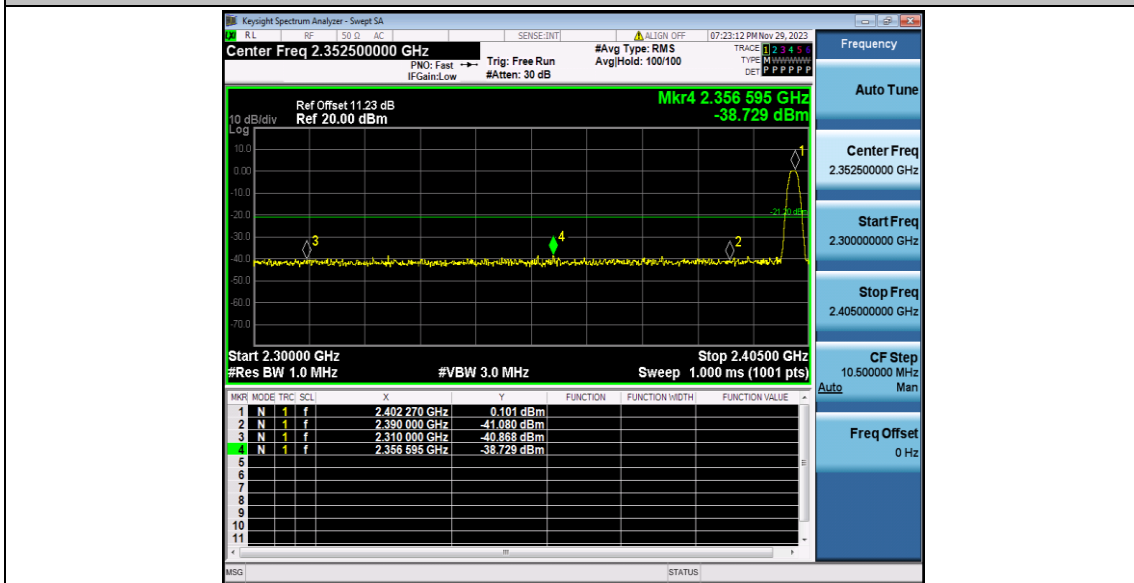
Note:

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.

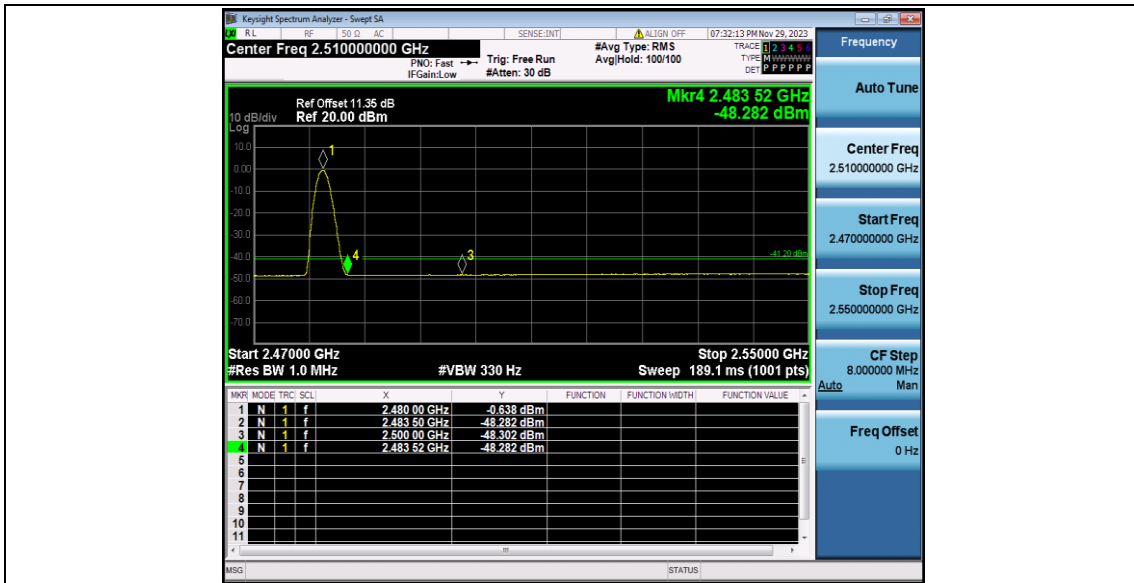
Test Graphs



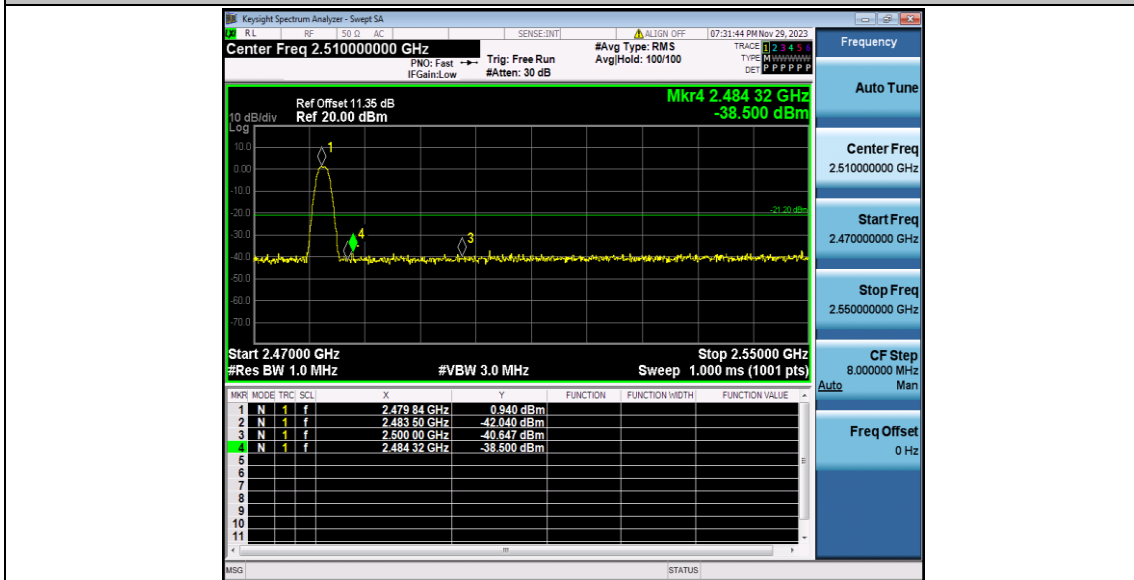
BLE_Ant1_Low_2402_AV



BLE_Ant1_Low_2402_Peak



BLE_Ant1_High_2480_AV



BLE_Ant1_High_2480_Peak