

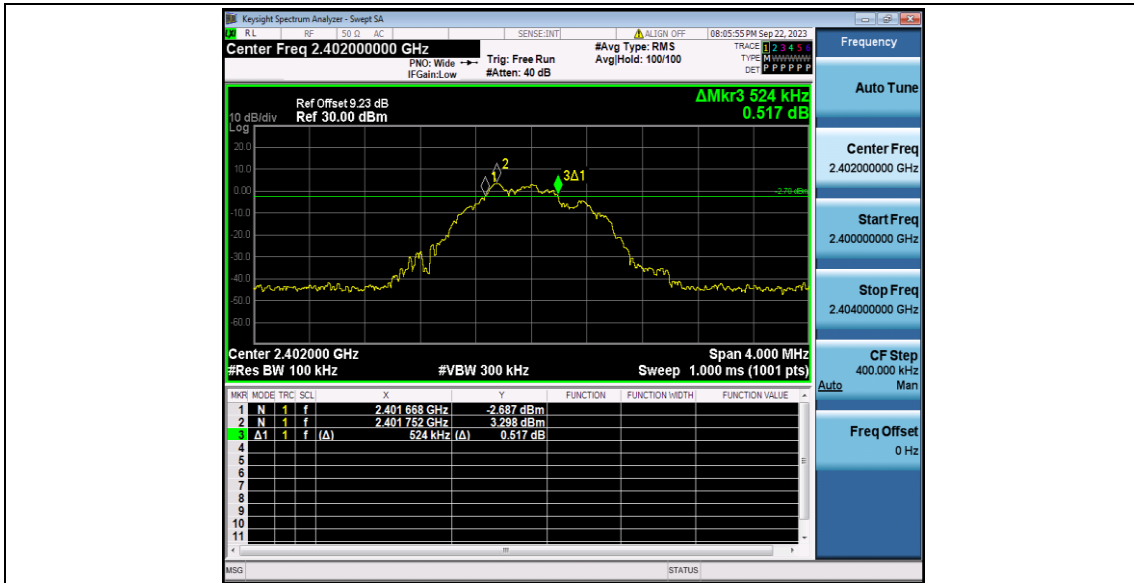
<b>Case No. :</b> <u>GTS20230822007-1-2</u>
<b>Ambient Condition:</b> <u>24</u> °C, <u>49</u> %RH, Atmos100.1Kpa,
<b>Test Date:</b> <u>2023.9.13</u> <b>Test Engineer:</b> <u>Evan ouyang</u>

## Appendix B.1: DTS Bandwidth

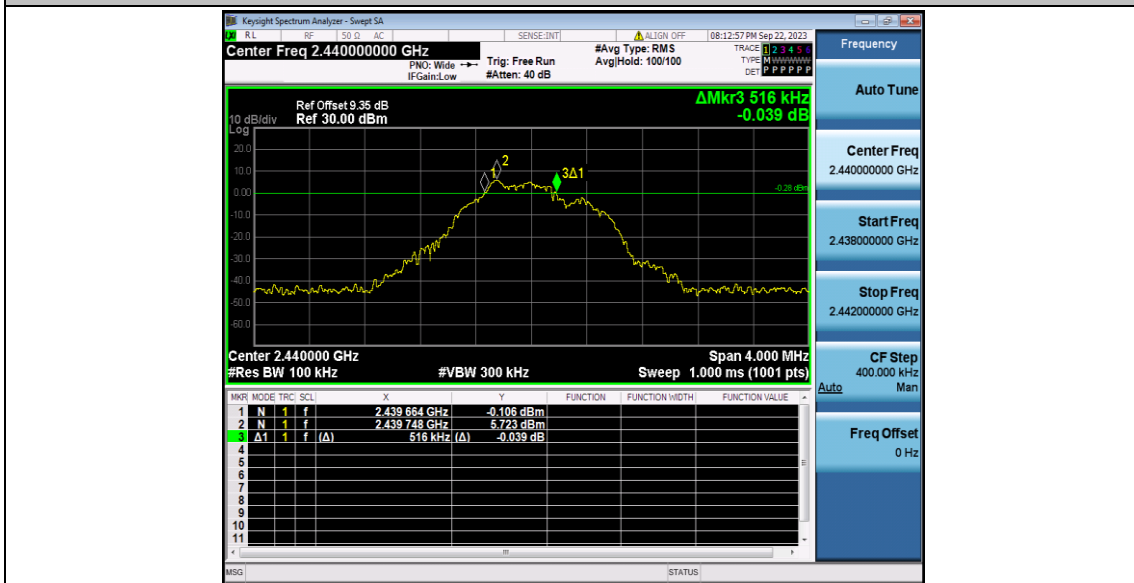
### Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.524	2401.668	2402.192	0.5	PASS
		2440	0.516	2439.664	2440.180	0.5	PASS
		2480	0.664	2479.668	2480.332	0.5	PASS

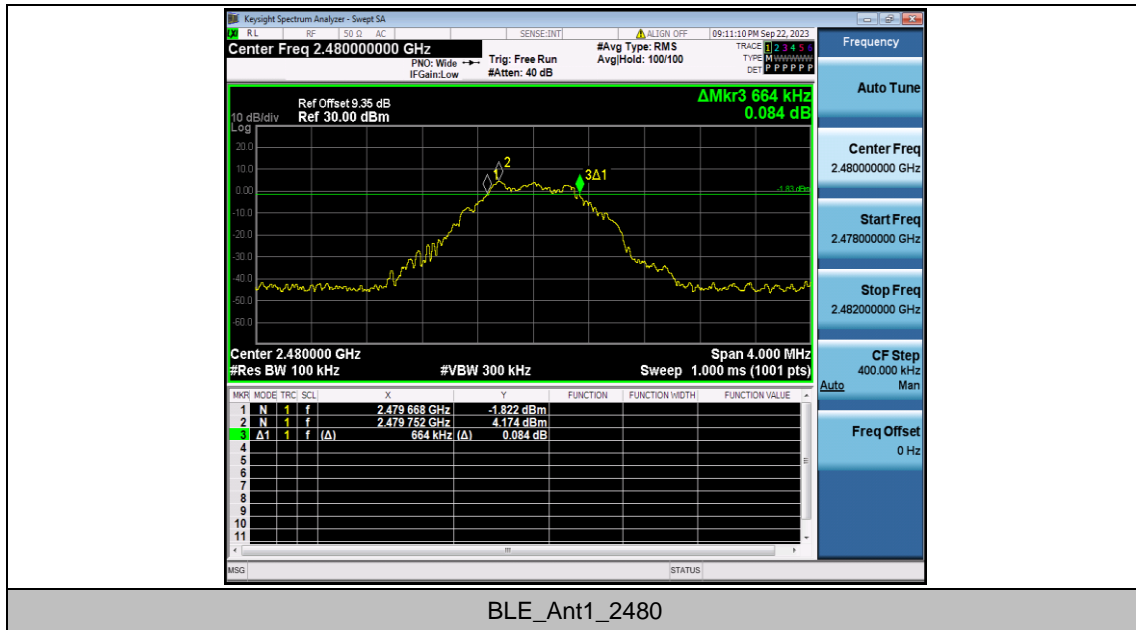
## Test Graphs



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	1.0175	2401.503	2402.521	---	---
		2440	1.0193	2439.504	2440.523	---	---
		2480	1.0185	2479.503	2480.521	---	---

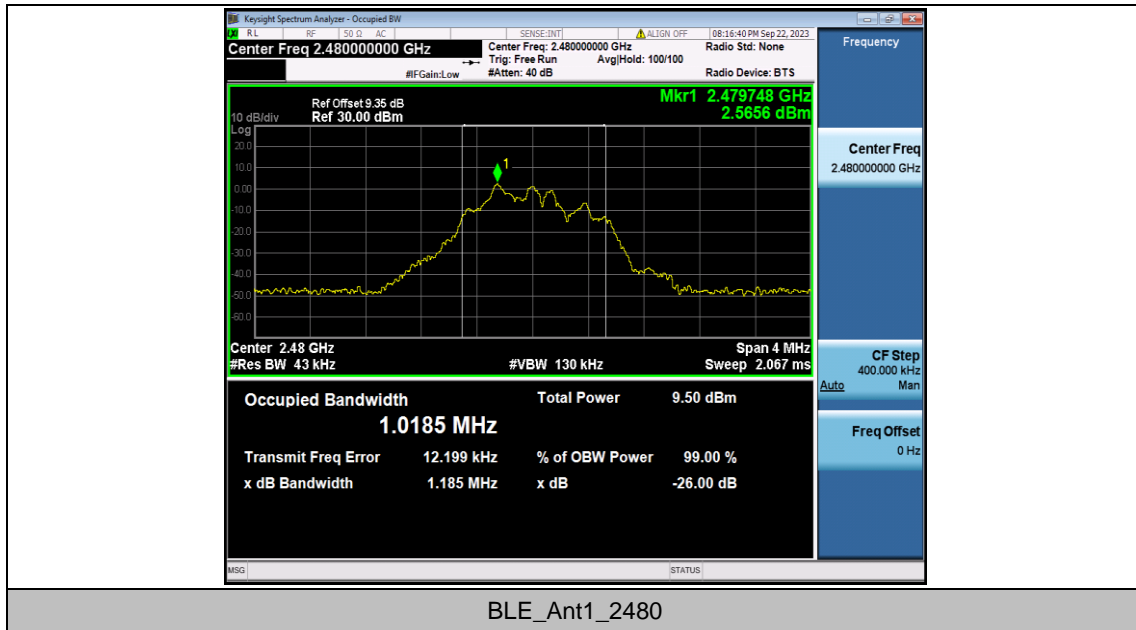
## Test Graphs



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	3.57	≤30	PASS
		2440	6	≤30	PASS
		2480	4.49	≤30	PASS

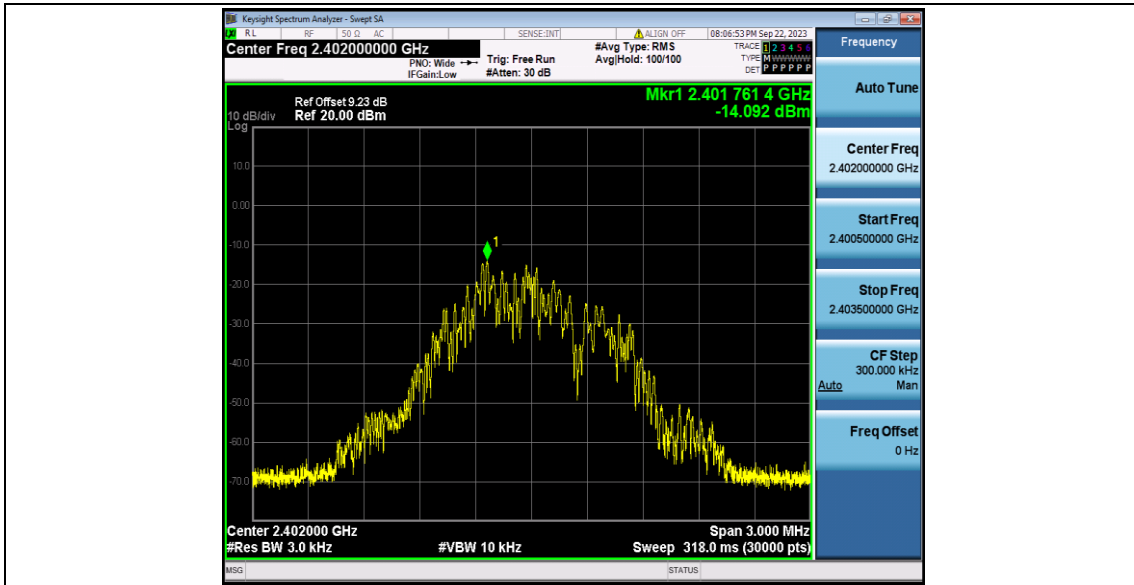
## Appendix B.4: Maximum power spectral density

### Test Result

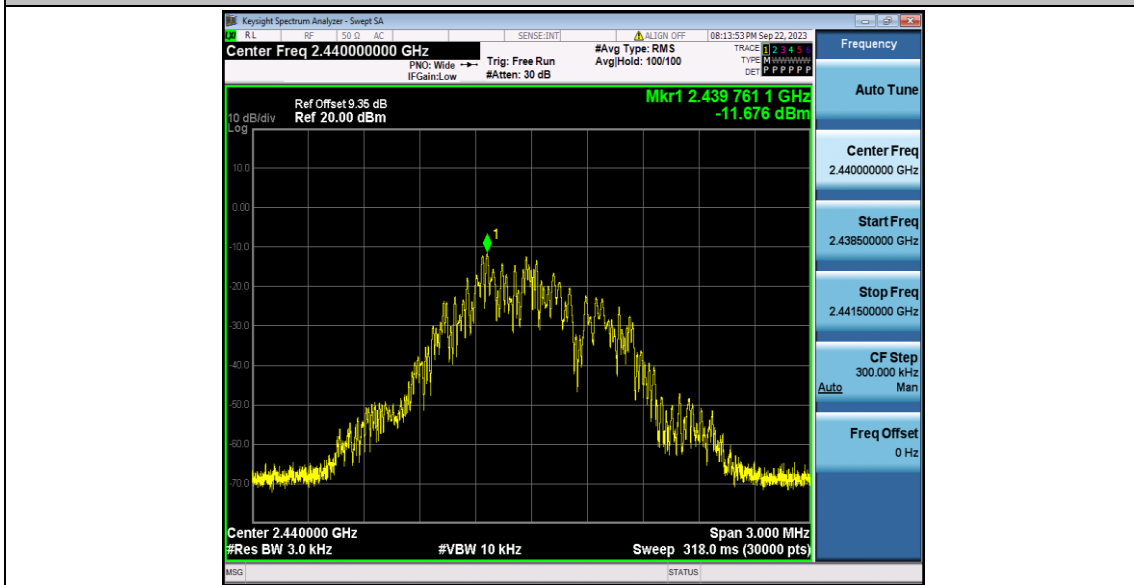
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-14.09	≤8.00	PASS
		2440	-11.68	≤8.00	PASS
		2480	-13.2	≤8.00	PASS



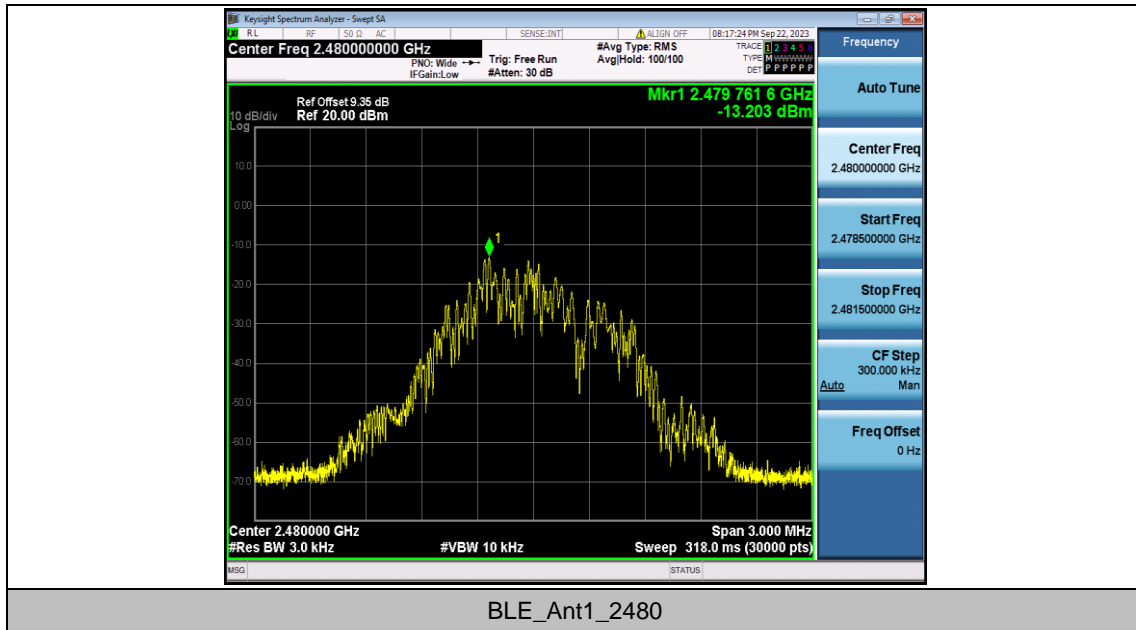
## Test Graphs



BLE\_Ant1\_2402



BLE\_Ant1\_2440



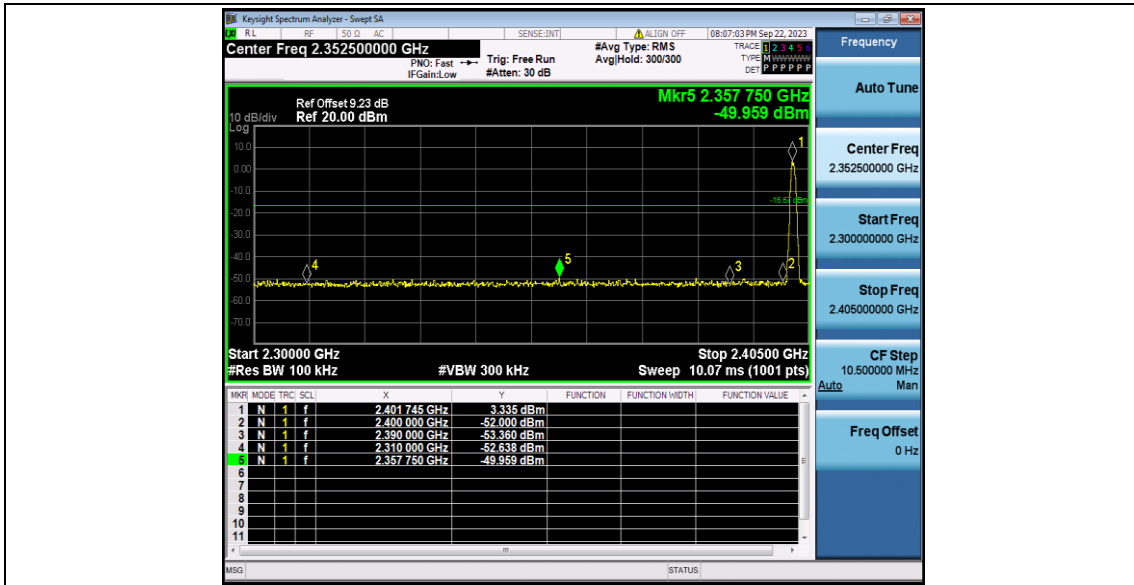
BLE\_Ant1\_2480

## Appendix B.5: Band edge measurements

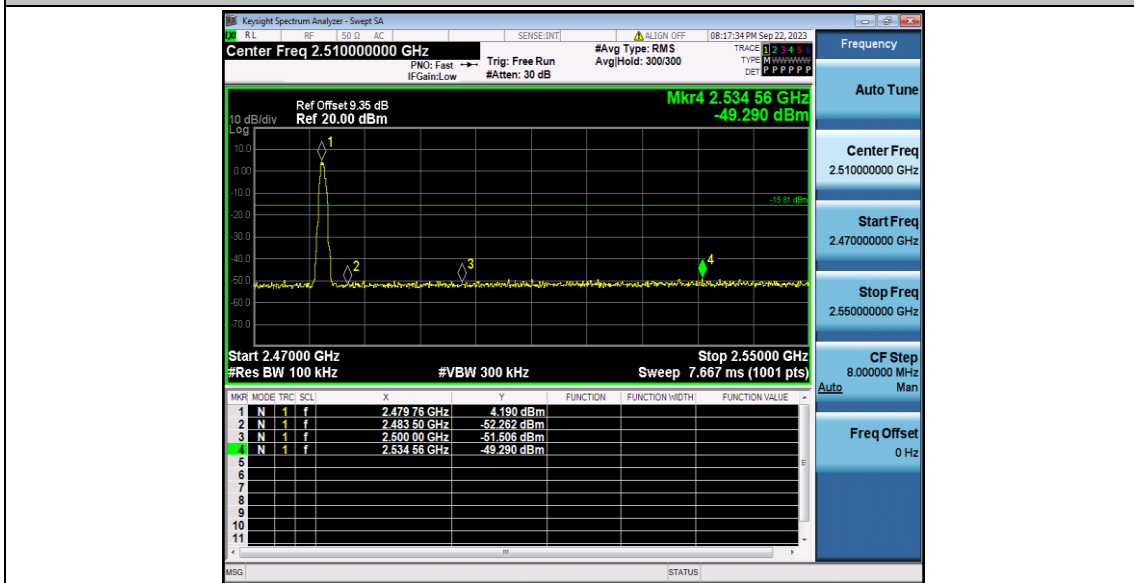
### Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	3.34	-49.96	≤-16.67	PASS
		High	2480	4.19	-49.29	≤-15.81	PASS

## Test Graphs



BLE\_Ant1\_Low\_2402



BLE\_Ant1\_High\_2480

## Appendix B.6: Conducted Spurious Emission

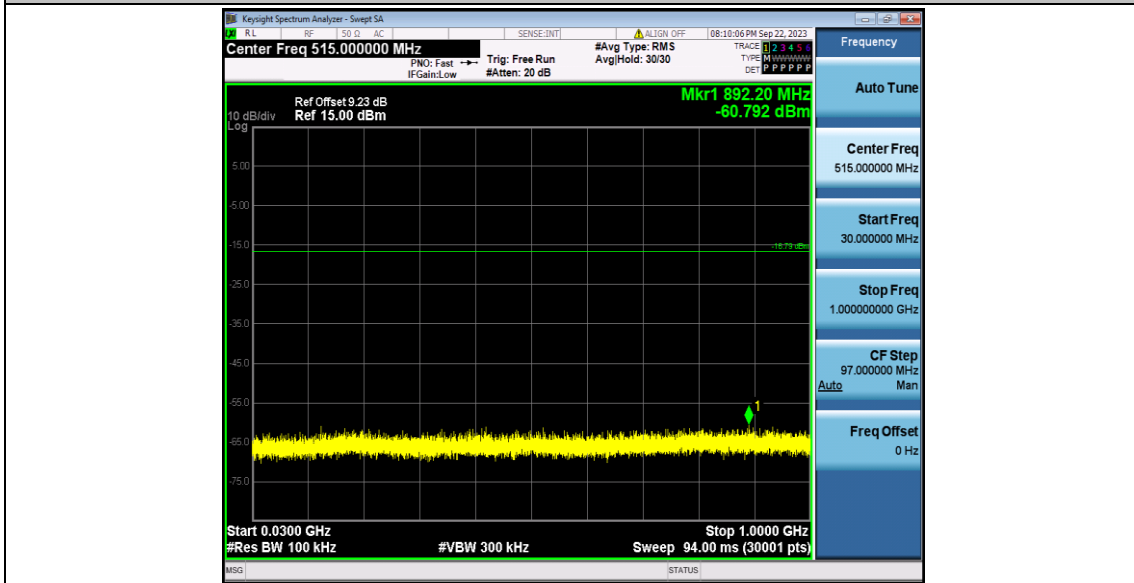
### Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	3.21	3.21	---	PASS
			30~1000	3.21	-60.79	$\leq -16.79$	PASS
			1000~26500	3.21	-47.44	$\leq -16.79$	PASS
		2440	Reference	5.56	5.56	---	PASS
			30~1000	5.56	-60.32	$\leq -14.44$	PASS
			1000~26500	5.56	-47.31	$\leq -14.44$	PASS
		2480	Reference	3.74	3.74	---	PASS
			30~1000	3.74	-60.31	$\leq -16.26$	PASS
			1000~26500	3.74	-47.72	$\leq -16.26$	PASS

## Test Graphs



BLE\_Ant1\_2402\_0~Reference



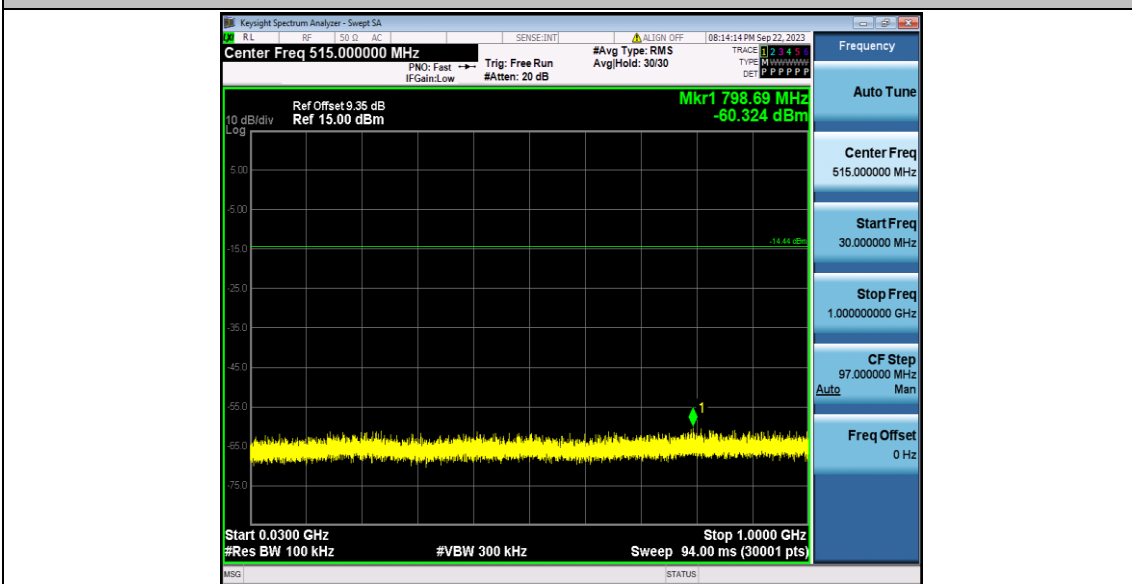
BLE\_Ant1\_2402\_30~1000



BLE\_Ant1\_2402\_1000~26500



BLE\_Ant1\_2440\_0~Reference



BLE\_Ant1\_2440\_30~1000

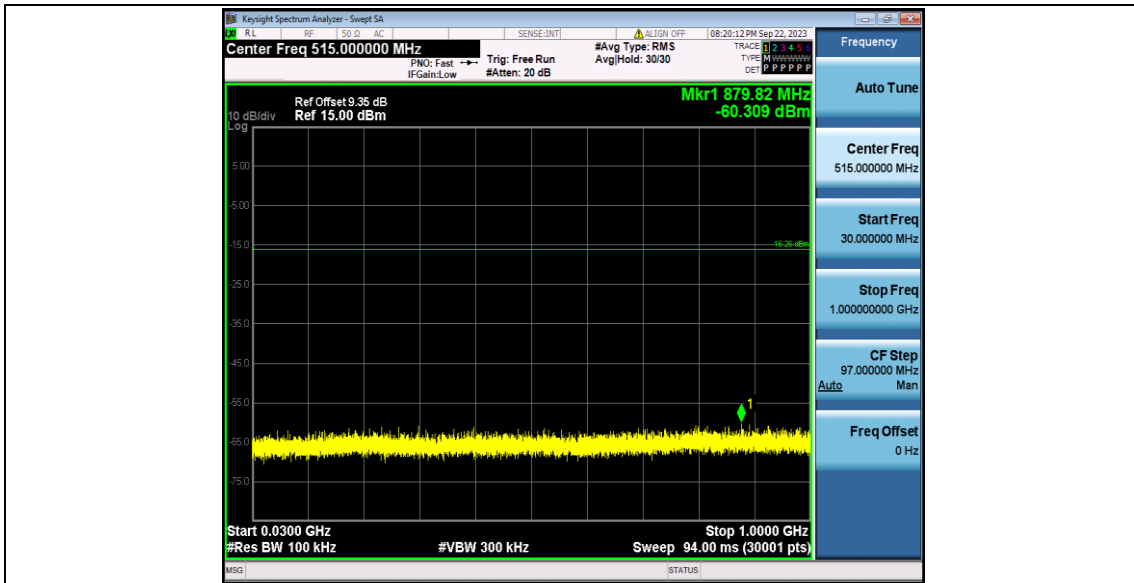


BLE\_Ant1\_2440\_1000~26500

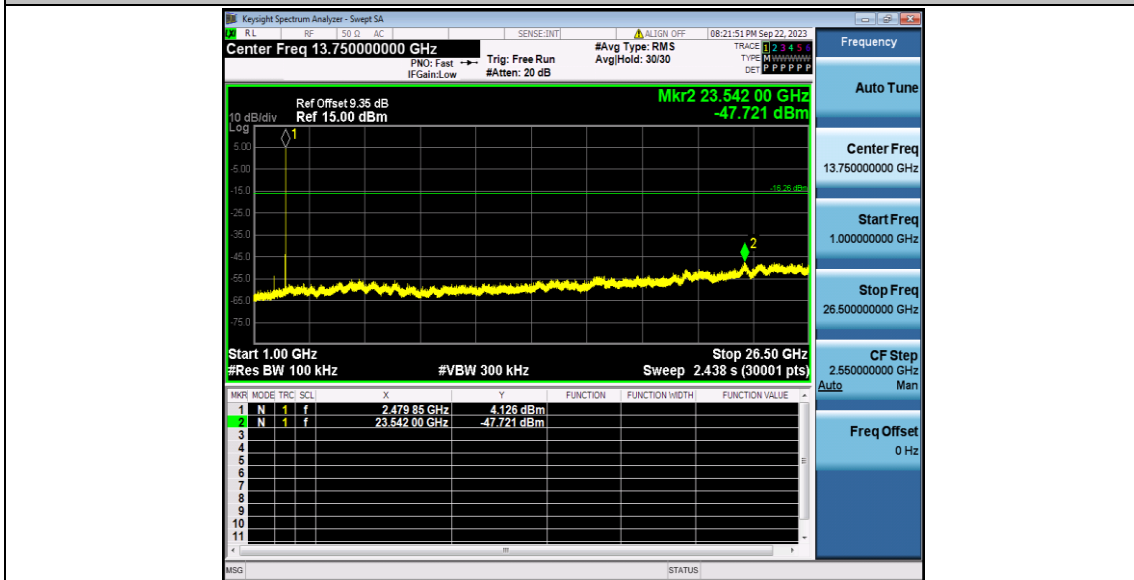


BLE\_Ant1\_2480\_0~Reference





BLE\_Ant1\_2480\_30~1000



BLE\_Ant1\_2480\_1000~26500

## Appendix B.7: Emissions in Restricted Bands

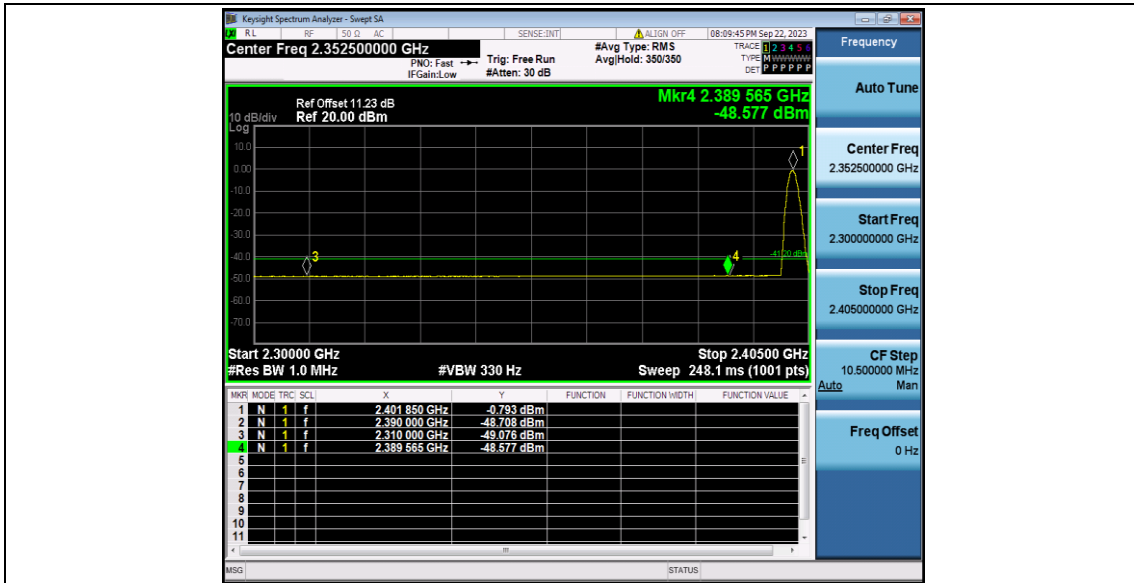
### Test Result

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	-49.08	≤-41.20	46.12	≤54	PASS
				AV	2389.565	-48.58	≤-41.20	46.62	≤54	PASS
				AV	2390.000	-48.71	≤-41.20	46.49	≤54	PASS
				Peak	2310.000	-41.55	≤-21.20	53.65	≤74	PASS
				Peak	2338.955	-38.33	≤-21.20	56.87	≤74	PASS
				Peak	2390.000	-40.2	≤-21.20	55.00	≤74	PASS
		High	2480	AV	2483.500	-48.32	≤-41.20	46.88	≤54	PASS
				AV	2498.400	-48.28	≤-41.20	46.92	≤54	PASS
				AV	2500.000	-48.31	≤-41.20	46.89	≤54	PASS
				Peak	2483.500	-41.05	≤-21.20	54.15	≤74	PASS
				Peak	2497.200	-38.05	≤-21.20	57.15	≤74	PASS
				Peak	2500.000	-40.29	≤-21.20	54.91	≤74	PASS

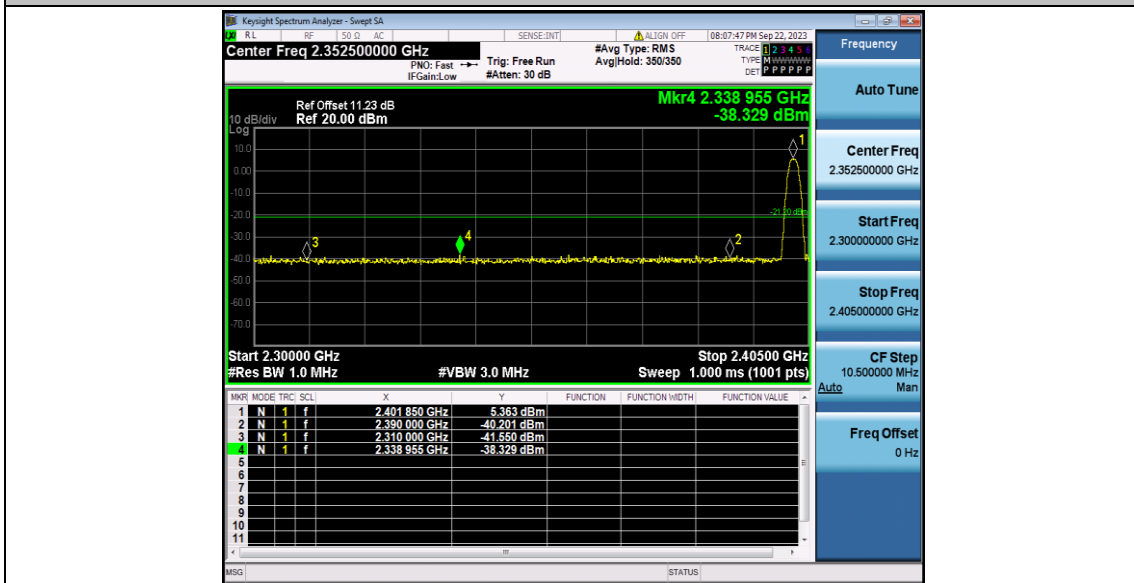
Note:

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.

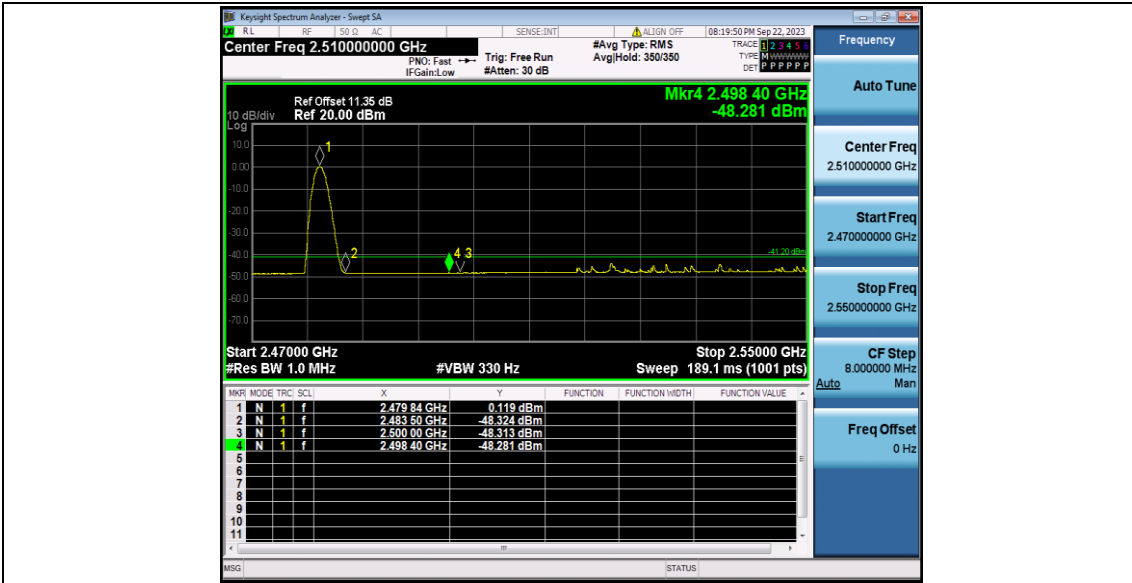
## Test Graphs



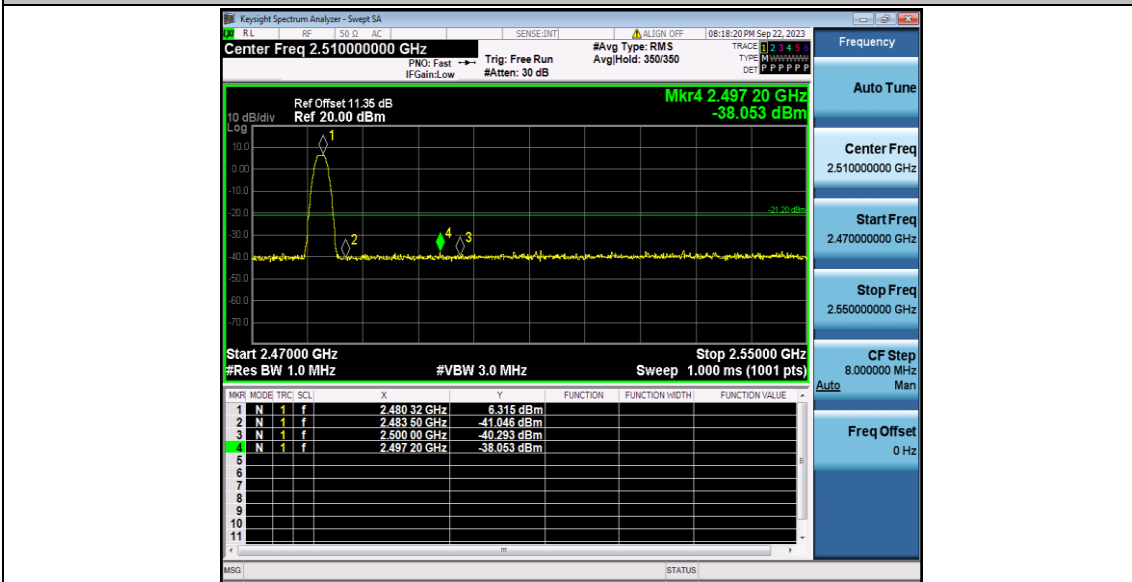
BLE\_Ant1\_Low\_2402\_AV



BLE\_Ant1\_Low\_2402\_Peak



BLE\_Ant1\_High\_2480\_AV



BLE\_Ant1\_High\_2480\_Peak