

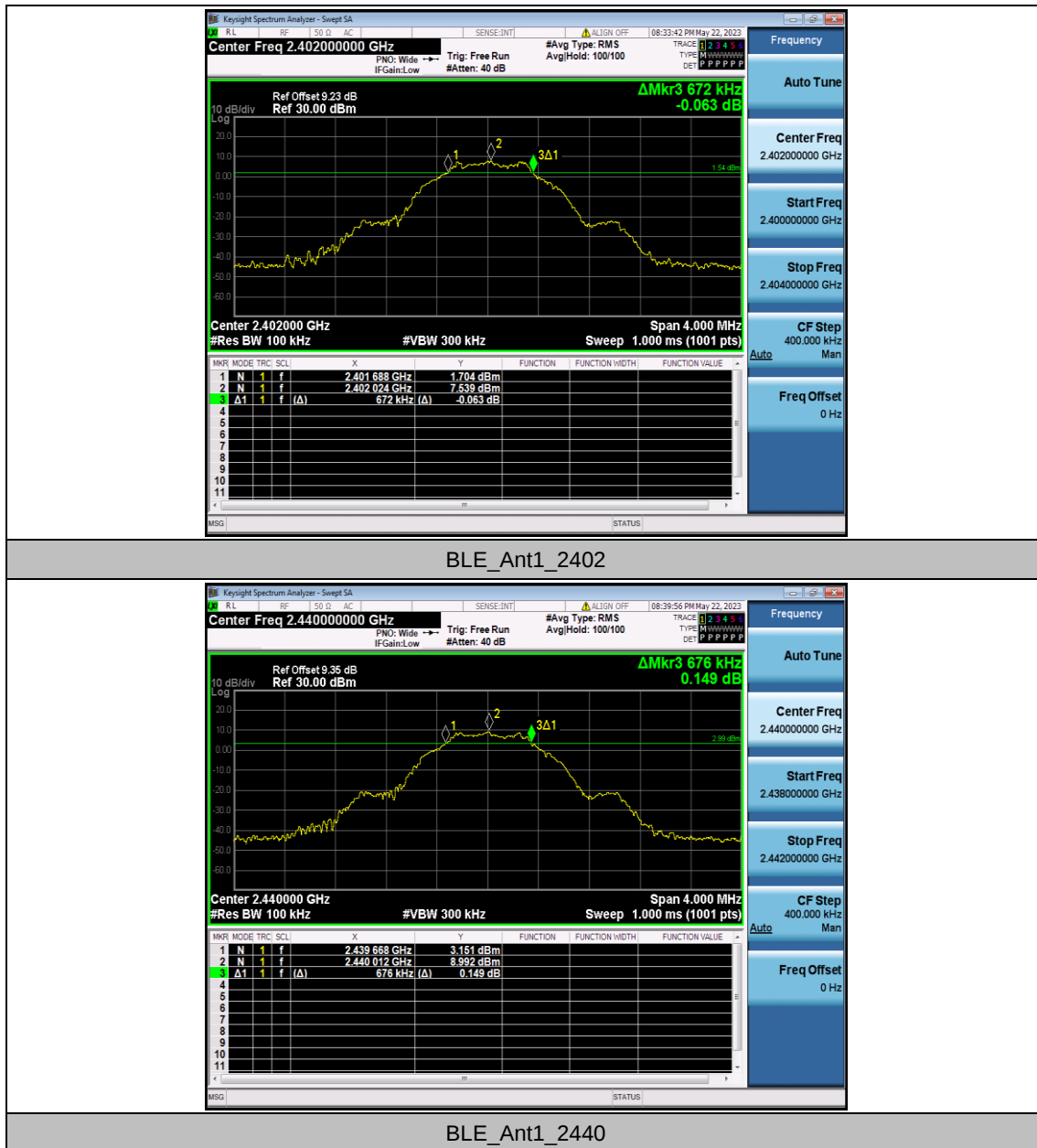
Case No. : <u>GTS20230417015-1-2</u>	
Ambient Condition: <u>25</u> °C, <u>50</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.5.22</u>	Test Engineer: <u>Jenny zeng</u>

Appendix A.1: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.672	2401.688	2402.360	0.5	PASS
		2440	0.676	2439.668	2440.344	0.5	PASS
		2480	0.672	2479.672	2480.344	0.5	PASS

Test Graphs





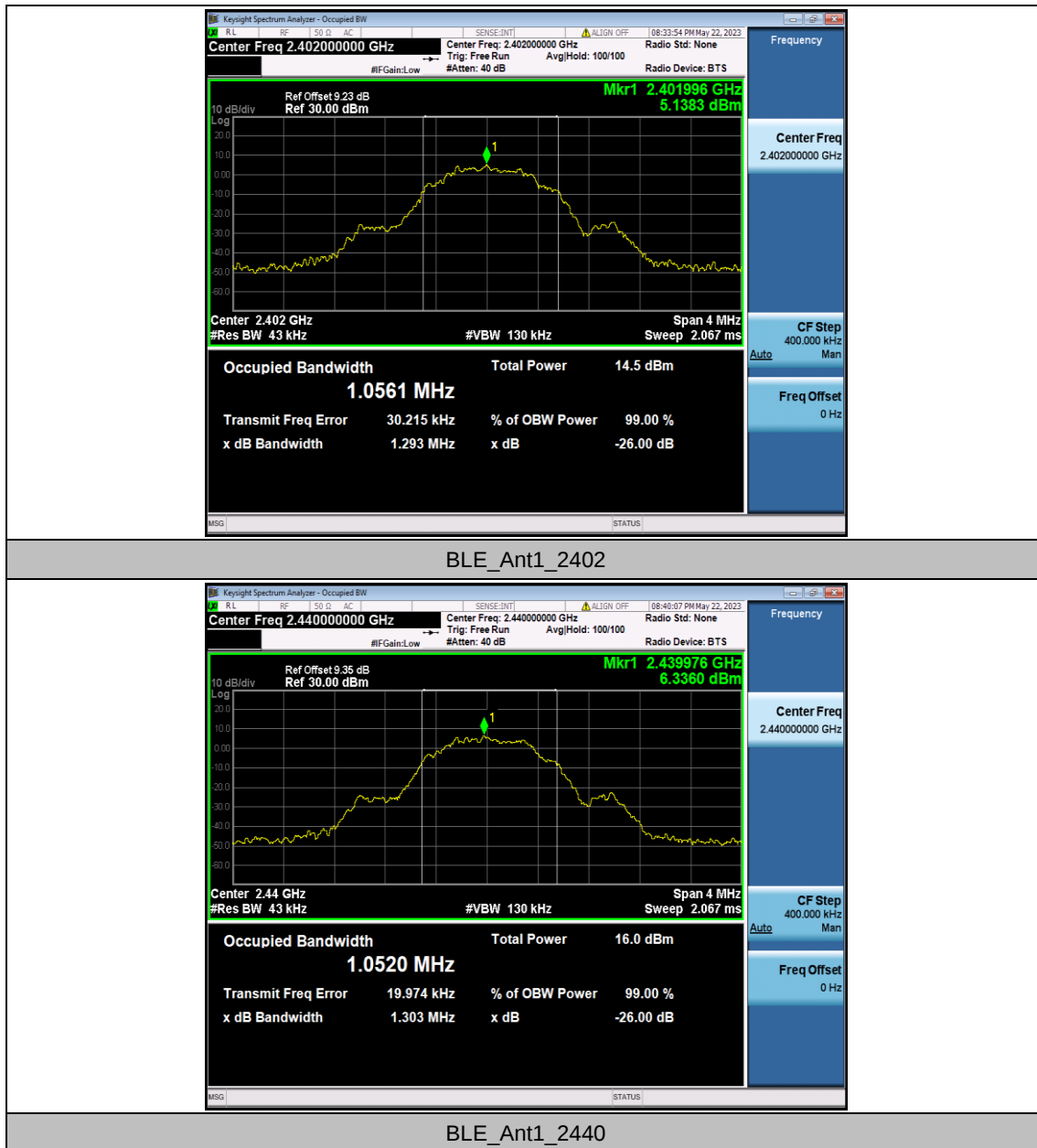
BLE_Ant1_2480

Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0561	2401.502	2402.558	---	---
		2440	1.0520	2439.494	2440.546	---	---
		2480	1.0508	2479.491	2480.541	---	---

Test Graphs



Appendix A.3: Maximum conducted output power

Test Result Peak

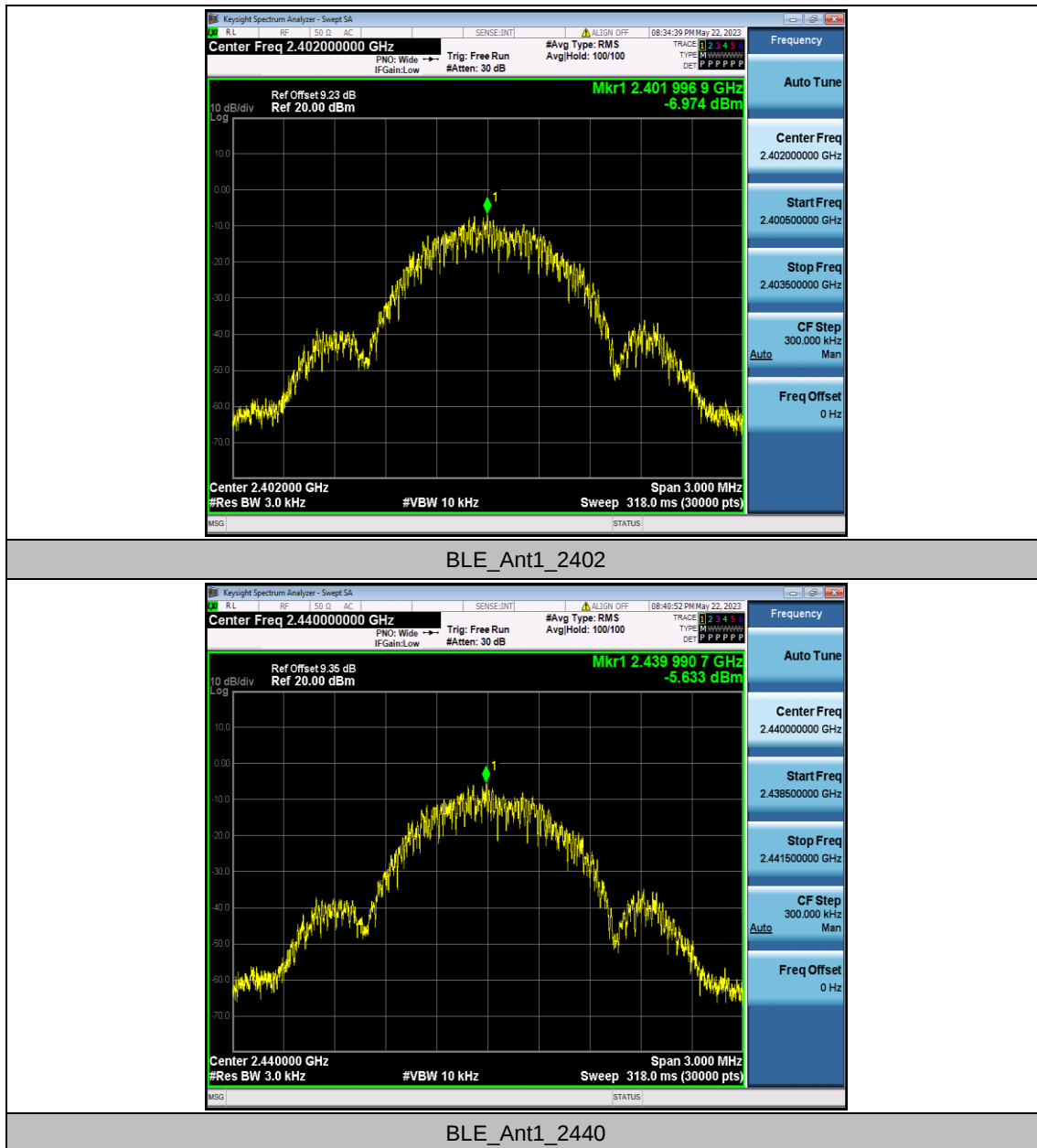
TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	8.76	≤30	PASS
		2440	10.08	≤30	PASS
		2480	9.46	≤30	PASS

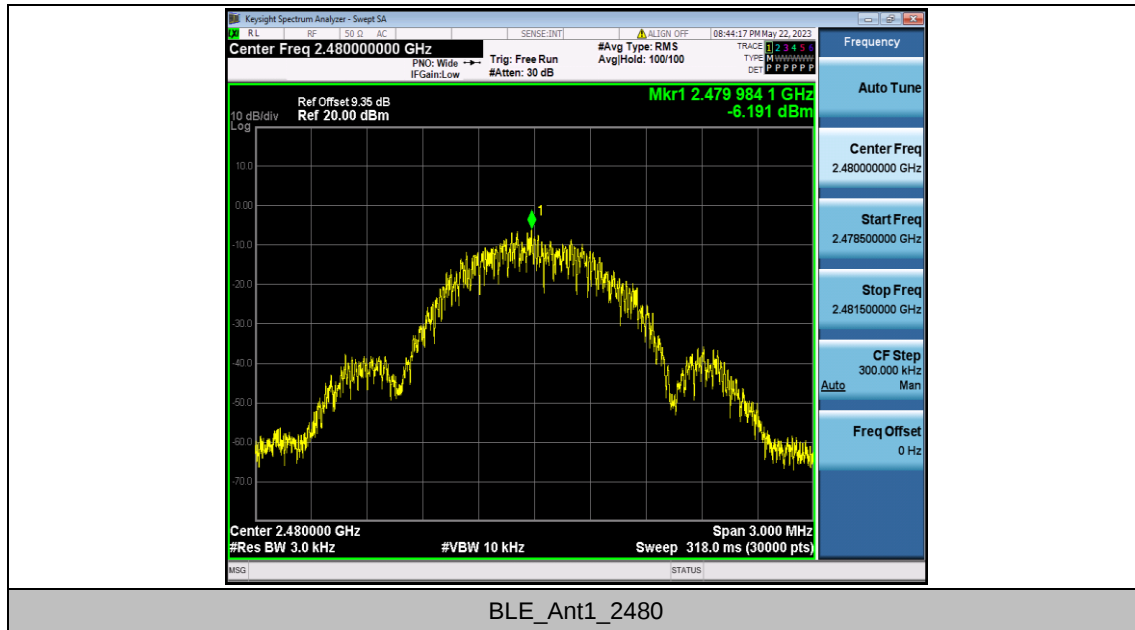
Appendix A.4: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-6.97	≤8.00	PASS
		2440	-5.63	≤8.00	PASS
		2480	-6.19	≤8.00	PASS

Test Graphs



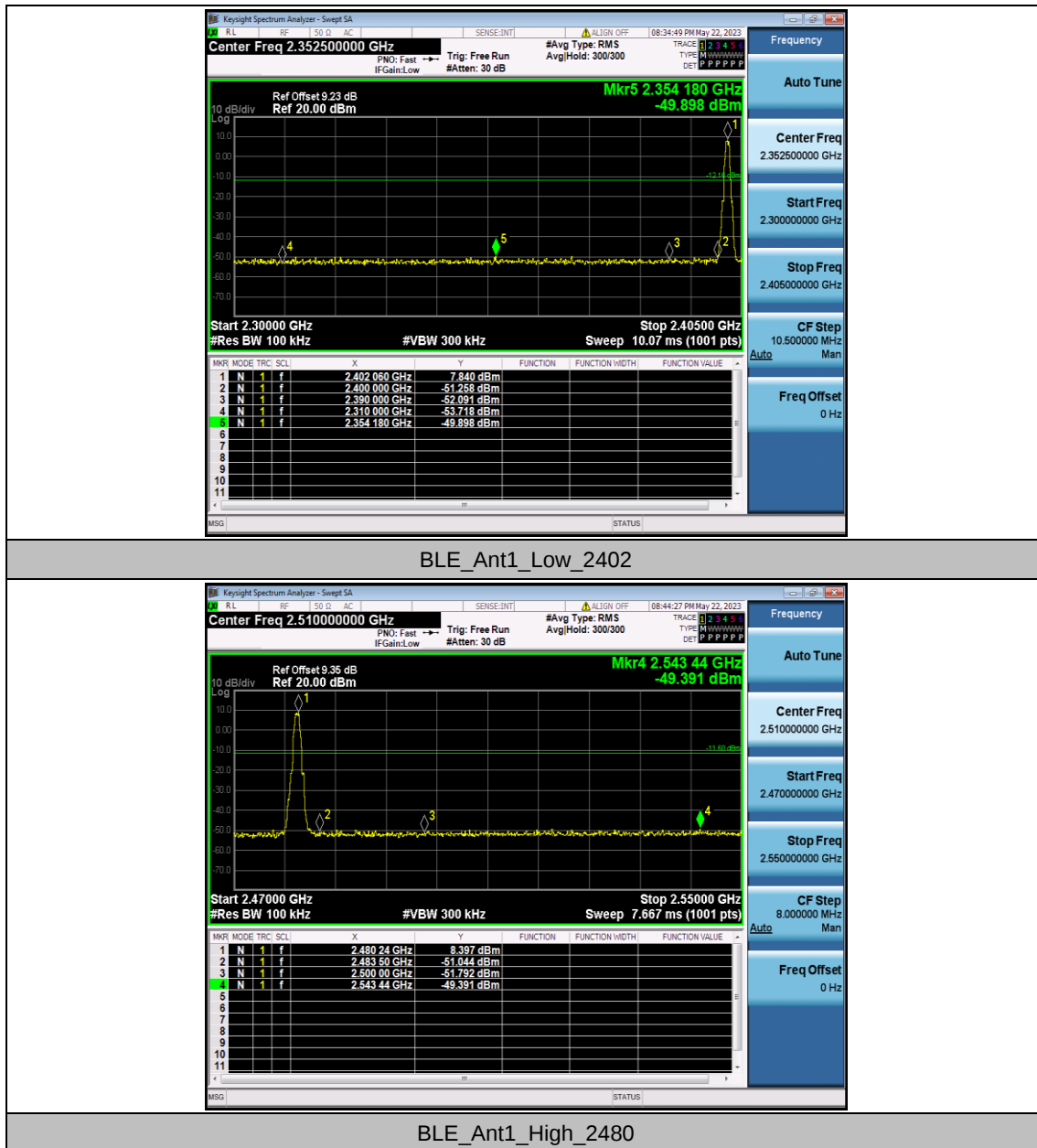


Appendix A.5: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	7.84	-49.9	≤-12.16	PASS
		High	2480	8.40	-49.39	≤-11.6	PASS

Test Graphs

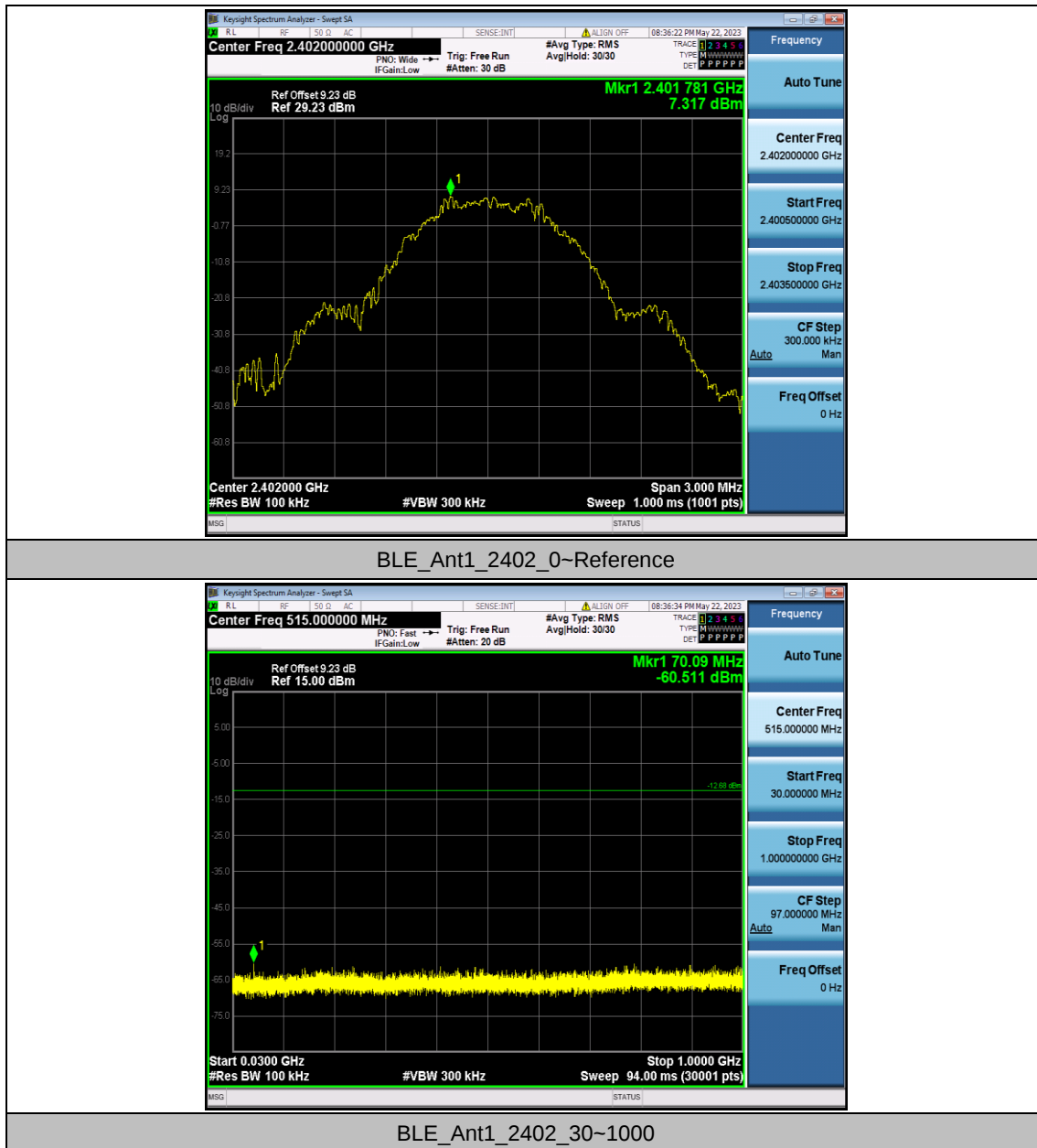


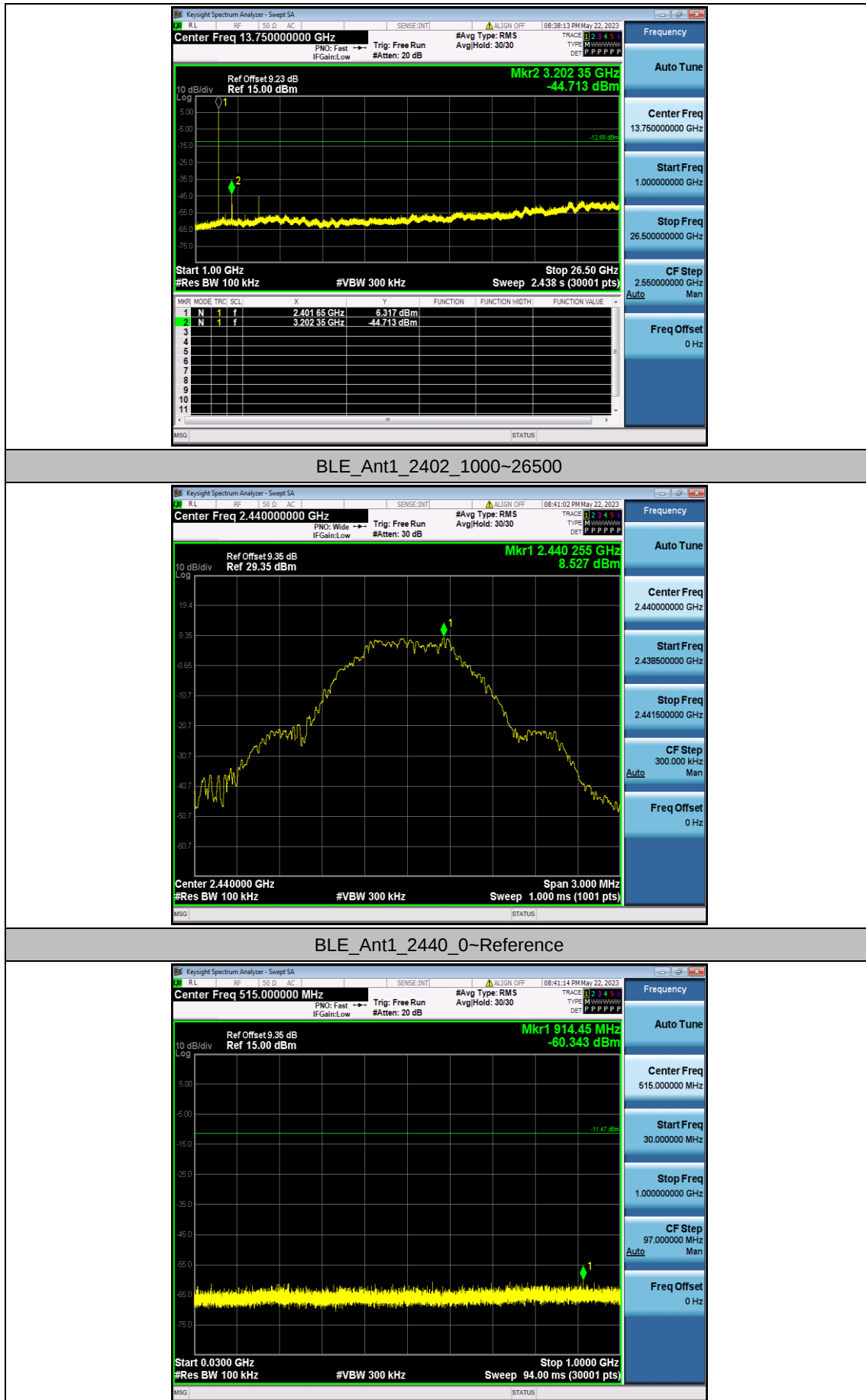
Appendix A.6: Conducted Spurious Emission

Test Result

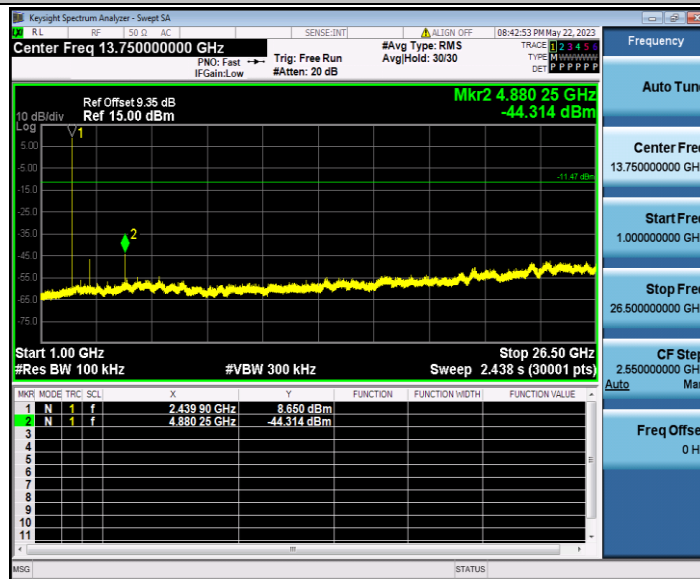
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	7.32	7.32	---	PASS
			30~1000	7.32	-60.51	≤ -12.68	PASS
			1000~26500	7.32	-44.71	≤ -12.68	PASS
		2440	Reference	8.53	8.53	---	PASS
			30~1000	8.53	-60.34	≤ -11.47	PASS
			1000~26500	8.53	-44.31	≤ -11.47	PASS
		2480	Reference	8.46	8.46	---	PASS
			30~1000	8.46	-60.4	≤ -11.54	PASS
			1000~26500	8.46	-47.37	≤ -11.54	PASS

Test Graphs





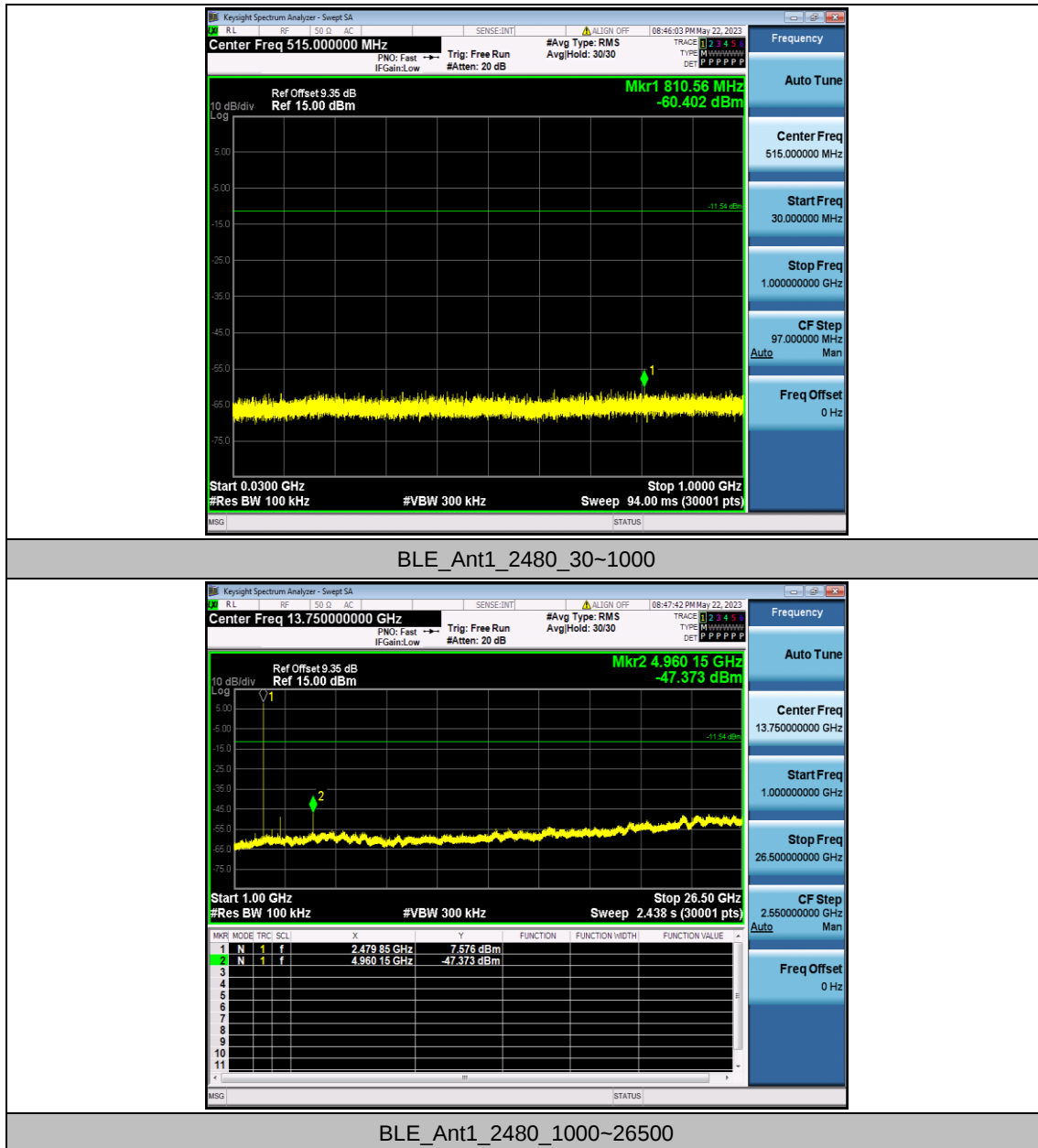
BLE_Ant1_2440_30~1000



BLE_Ant1_2440_1000~26500



BLE_Ant1_2480_0~Reference



Appendix A.7: Emissions in Restricted Bands

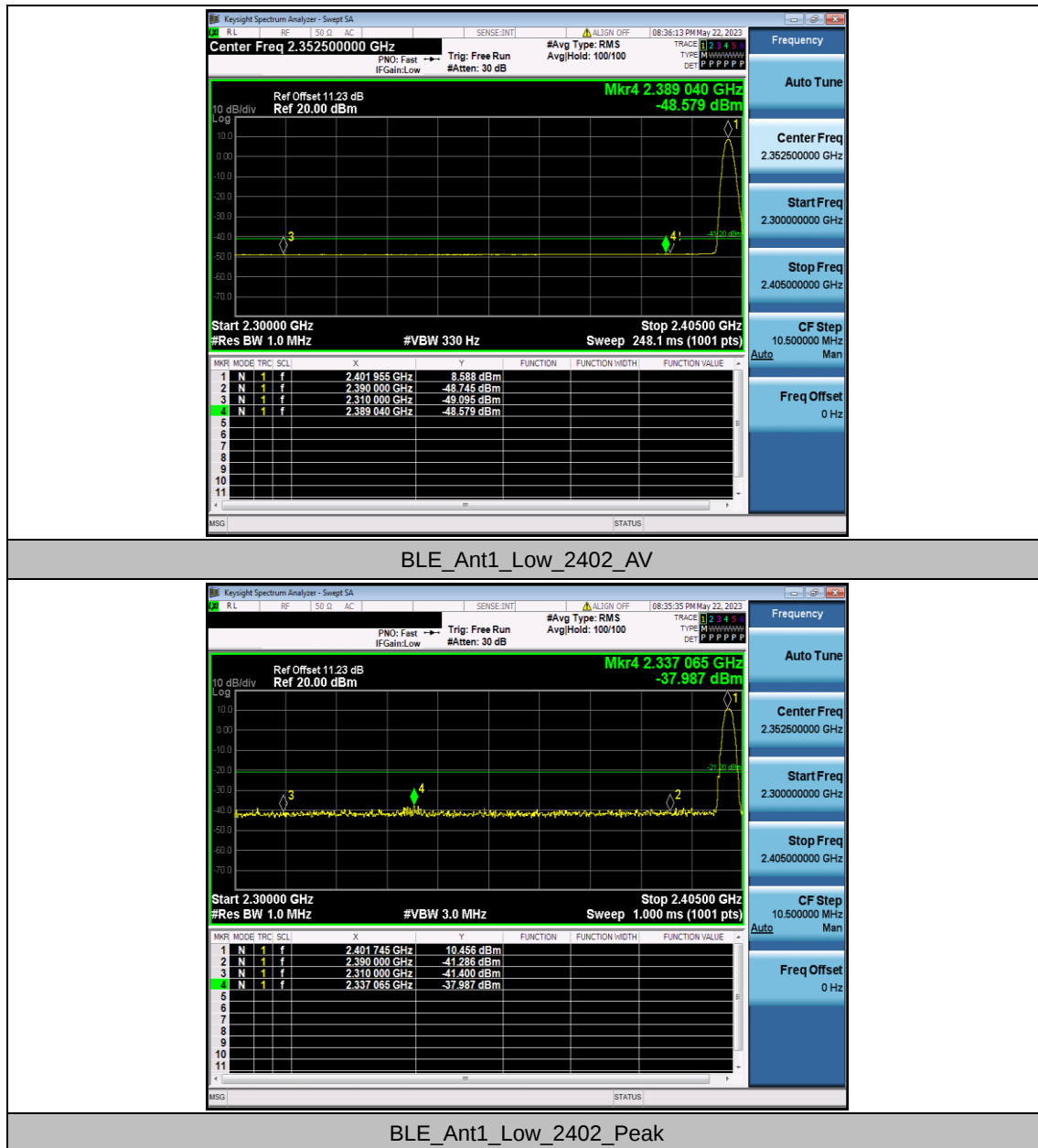
Test Result

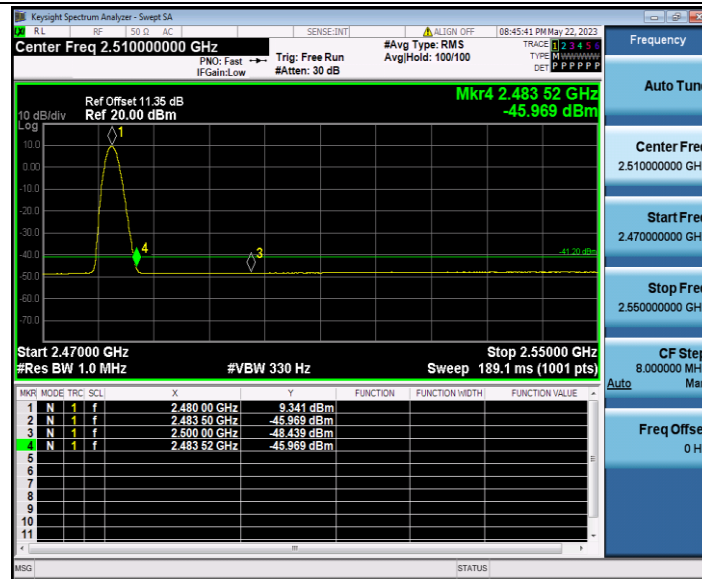
TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	Ant1	Low	2402	AV	2310.000	-49.1	≤-41.20	46.10	≤54	PASS
				AV	2389.040	-48.58	≤-41.20	46.62	≤54	PASS
				AV	2390.000	-48.75	≤-41.20	46.45	≤54	PASS
				Peak	2310.000	-41.4	≤-21.20	53.80	≤74	PASS
				Peak	2337.065	-37.99	≤-21.20	57.21	≤74	PASS
				Peak	2390.000	-41.29	≤-21.20	53.91	≤74	PASS
		High	2480	AV	2483.500	-45.97	≤-41.20	49.23	≤54	PASS
				AV	2483.520	-45.97	≤-41.20	49.23	≤54	PASS
				AV	2500.000	-48.44	≤-41.20	46.76	≤54	PASS
				Peak	2483.500	-41.07	≤-21.20	54.13	≤74	PASS
				Peak	2488.320	-39.33	≤-21.20	55.87	≤74	PASS
				Peak	2500.000	-41.06	≤-21.20	54.14	≤74	PASS

Note:

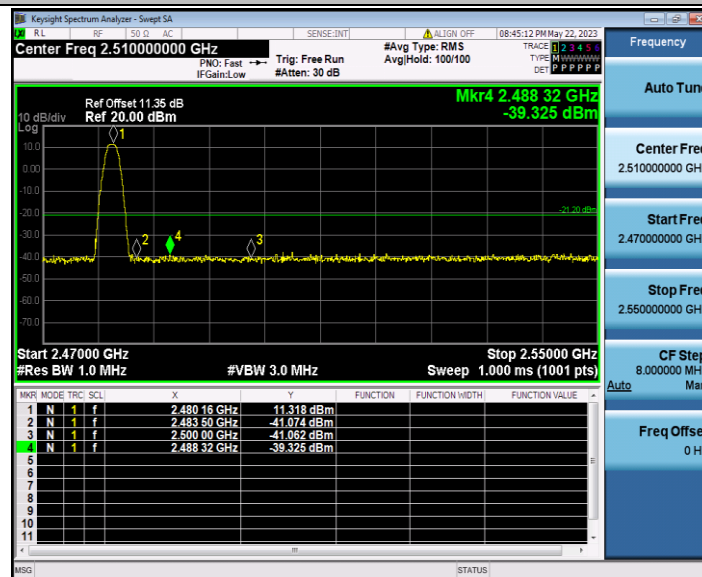
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs





BLE_Ant1_High_2480_AV



BLE_Ant1_High_2480_Peak