

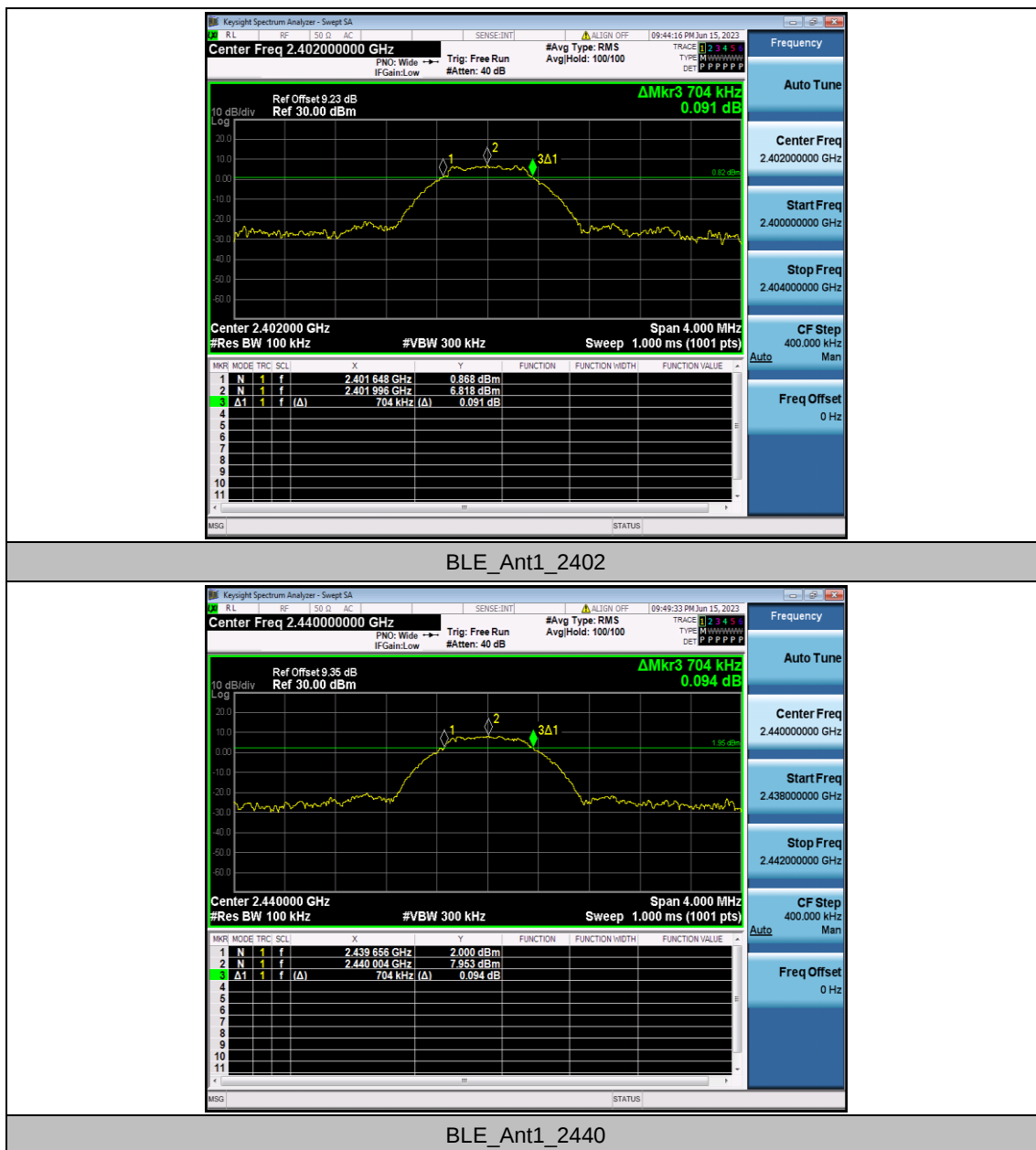
Case No. : <u>GTS20230523010-1-12</u>	
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.6.14</u>	Test Engineer: <u>Jenny zeng</u>

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	0.704	2401.648	2402.352	0.5	PASS
		2440	0.704	2439.656	2440.360	0.5	PASS
		2480	0.672	2479.660	2480.332	0.5	PASS

Test Graphs



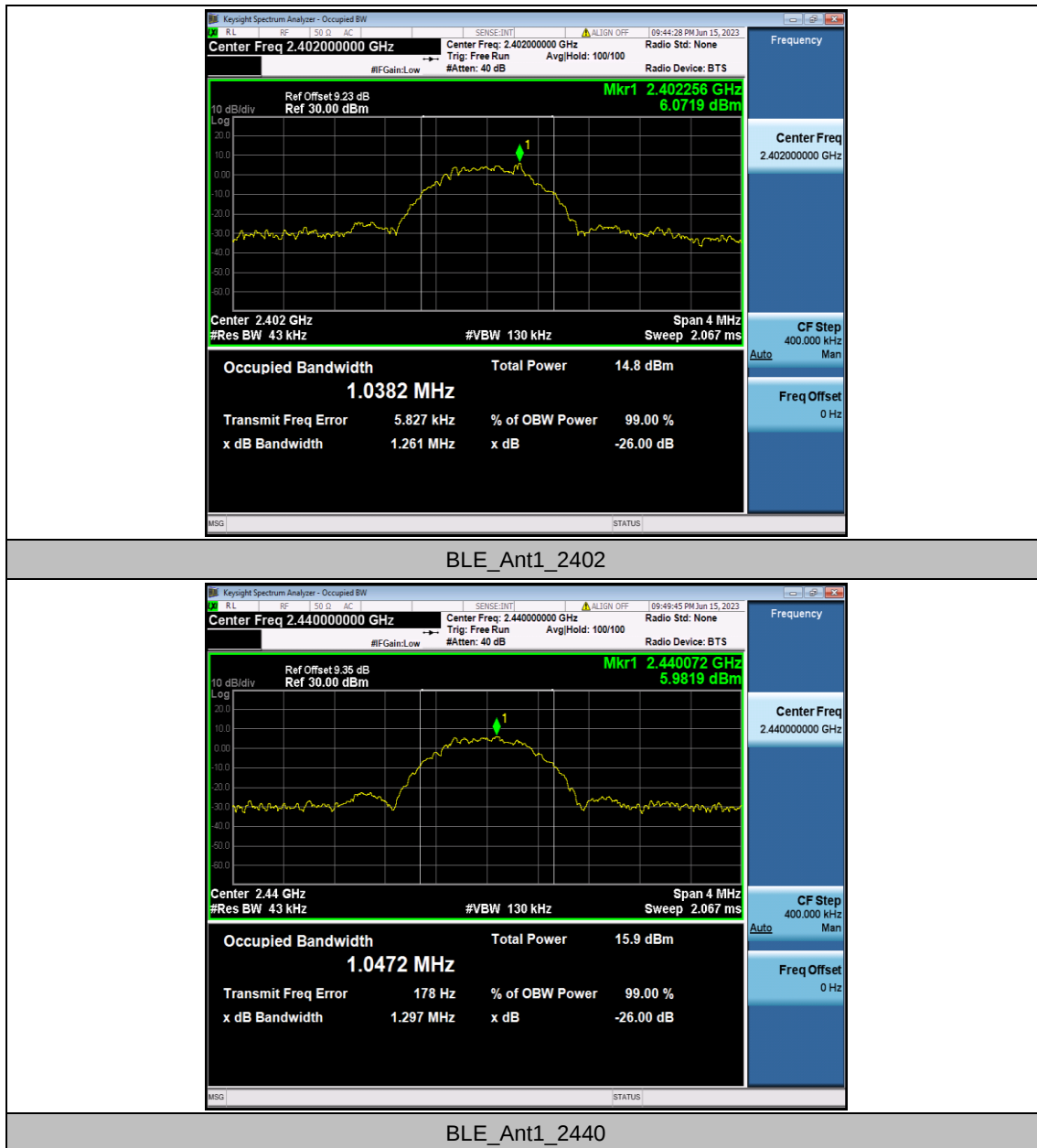


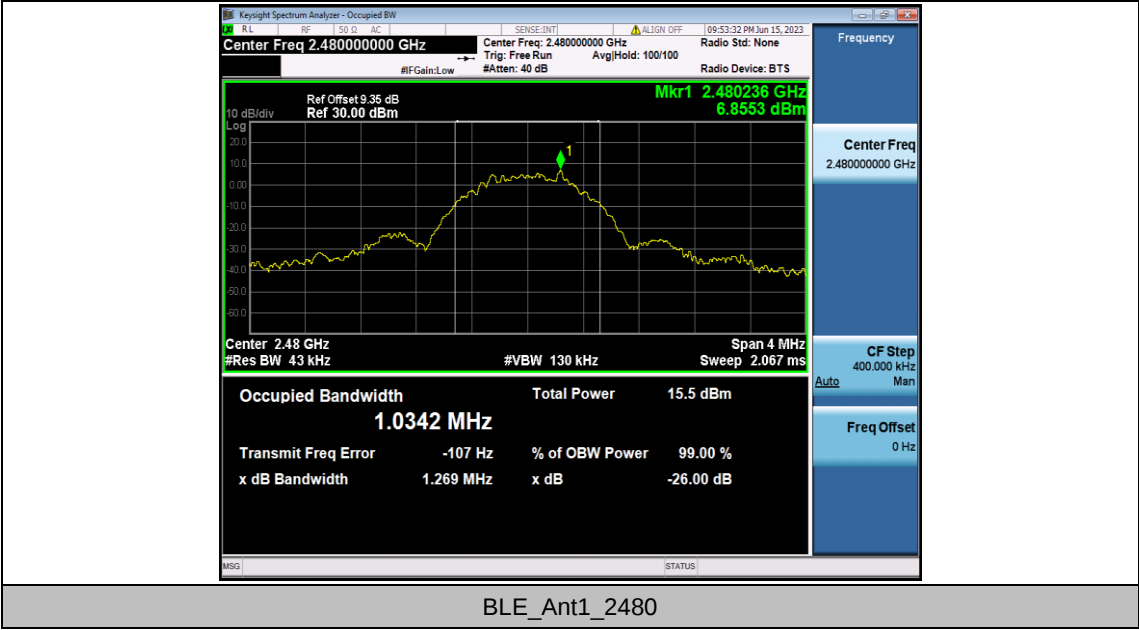
Appendix B.2: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0382	2401.487	2402.525	---	---
		2440	1.0472	2439.477	2440.524	---	---
		2480	1.0342	2479.483	2480.517	---	---

Test Graphs





BLE_Ant1_2480

Appendix B.3: Maximum conducted output power

Test Result Peak

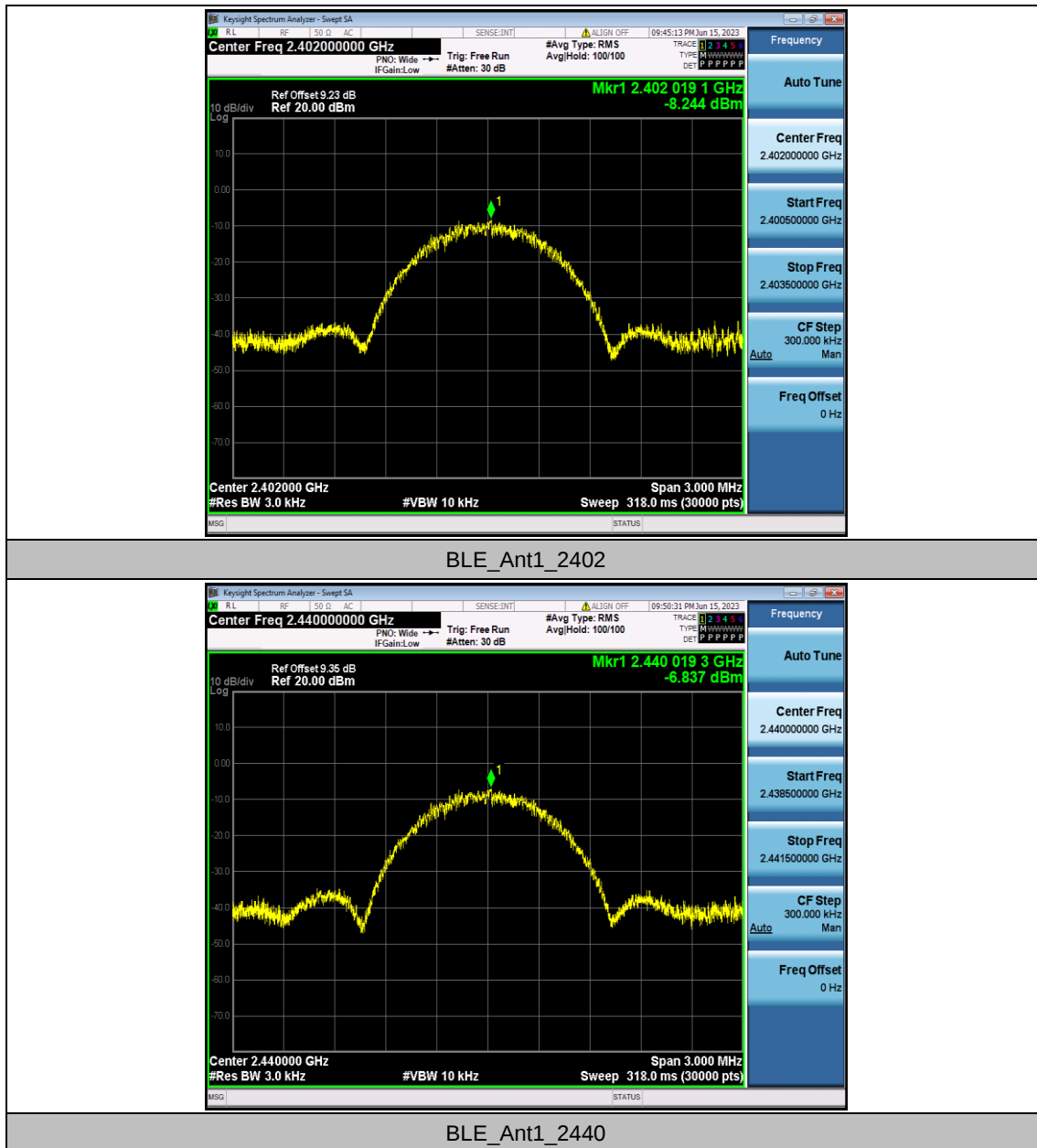
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	7.8	≤30	PASS
		2440	9.2	≤30	PASS
		2480	8.66	≤30	PASS

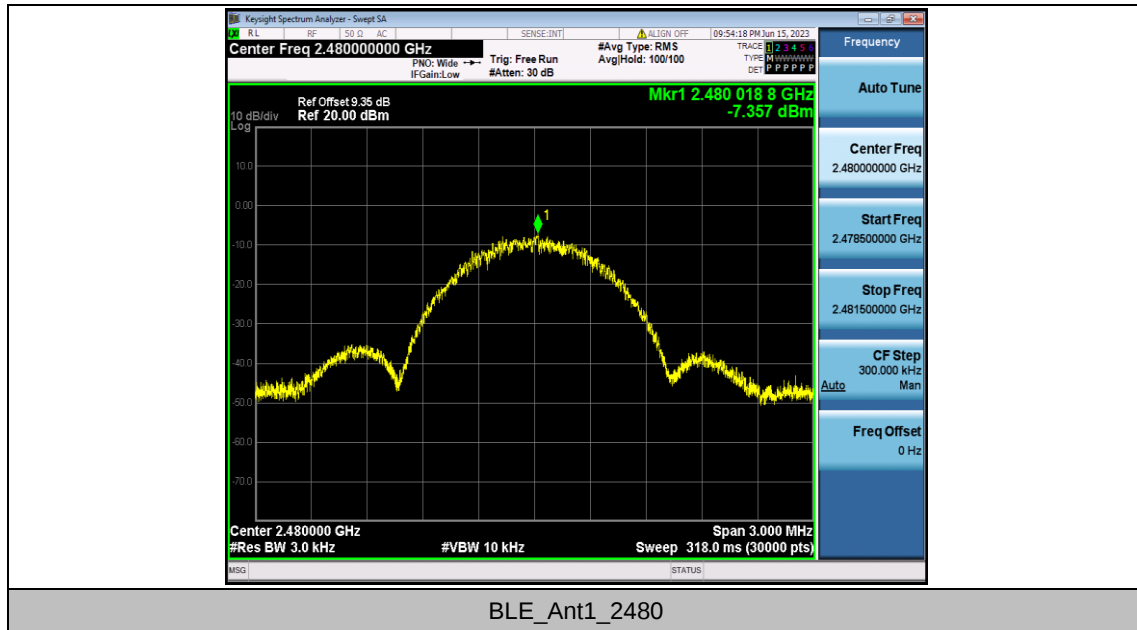
Appendix B.4: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-8.24	≤8.00	PASS
		2440	-6.84	≤8.00	PASS
		2480	-7.36	≤8.00	PASS

Test Graphs



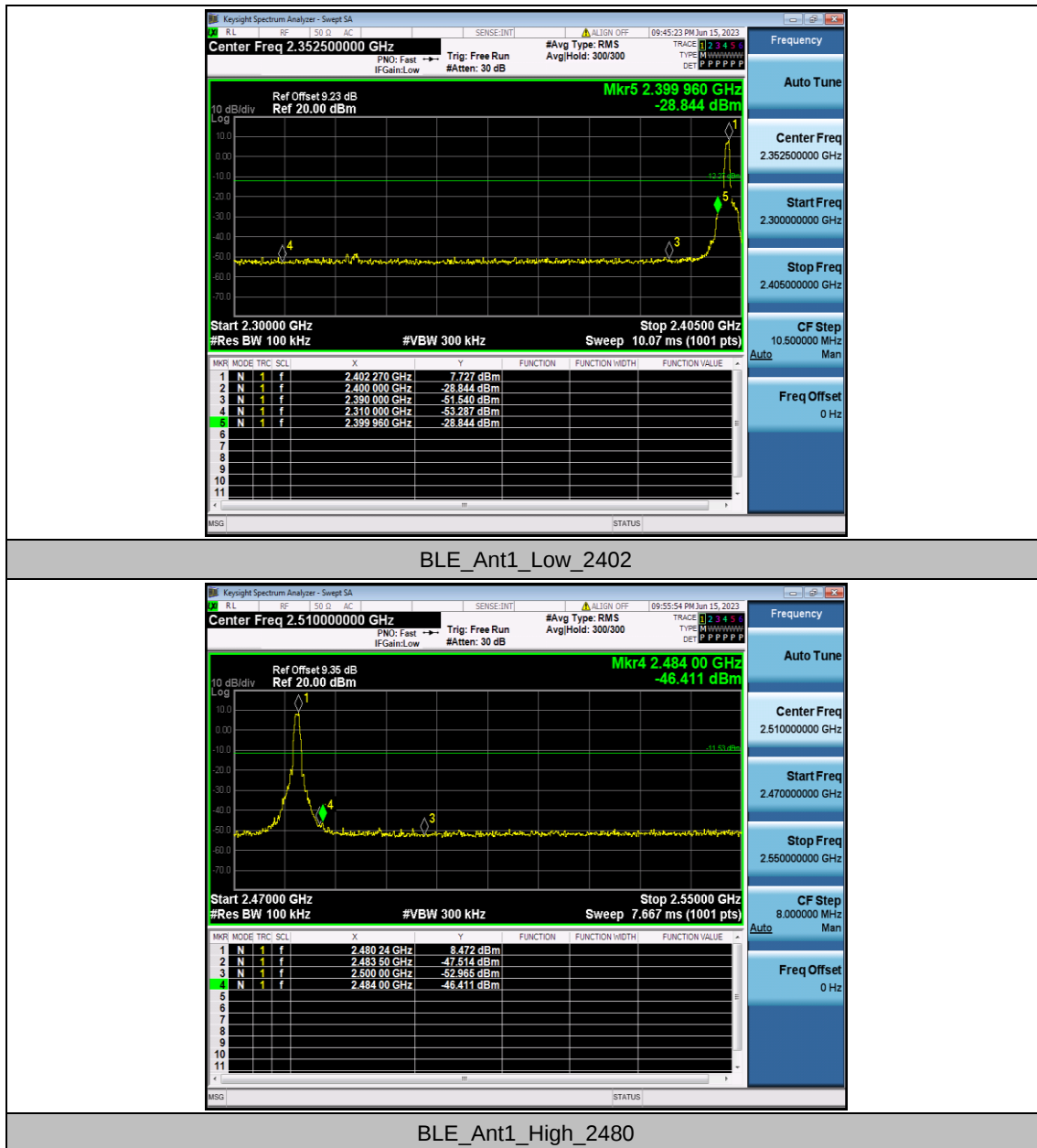


Appendix B.5: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	7.73	-28.84	≤ -12.27	PASS
		High	2480	8.47	-46.41	≤ -11.53	PASS

Test Graphs

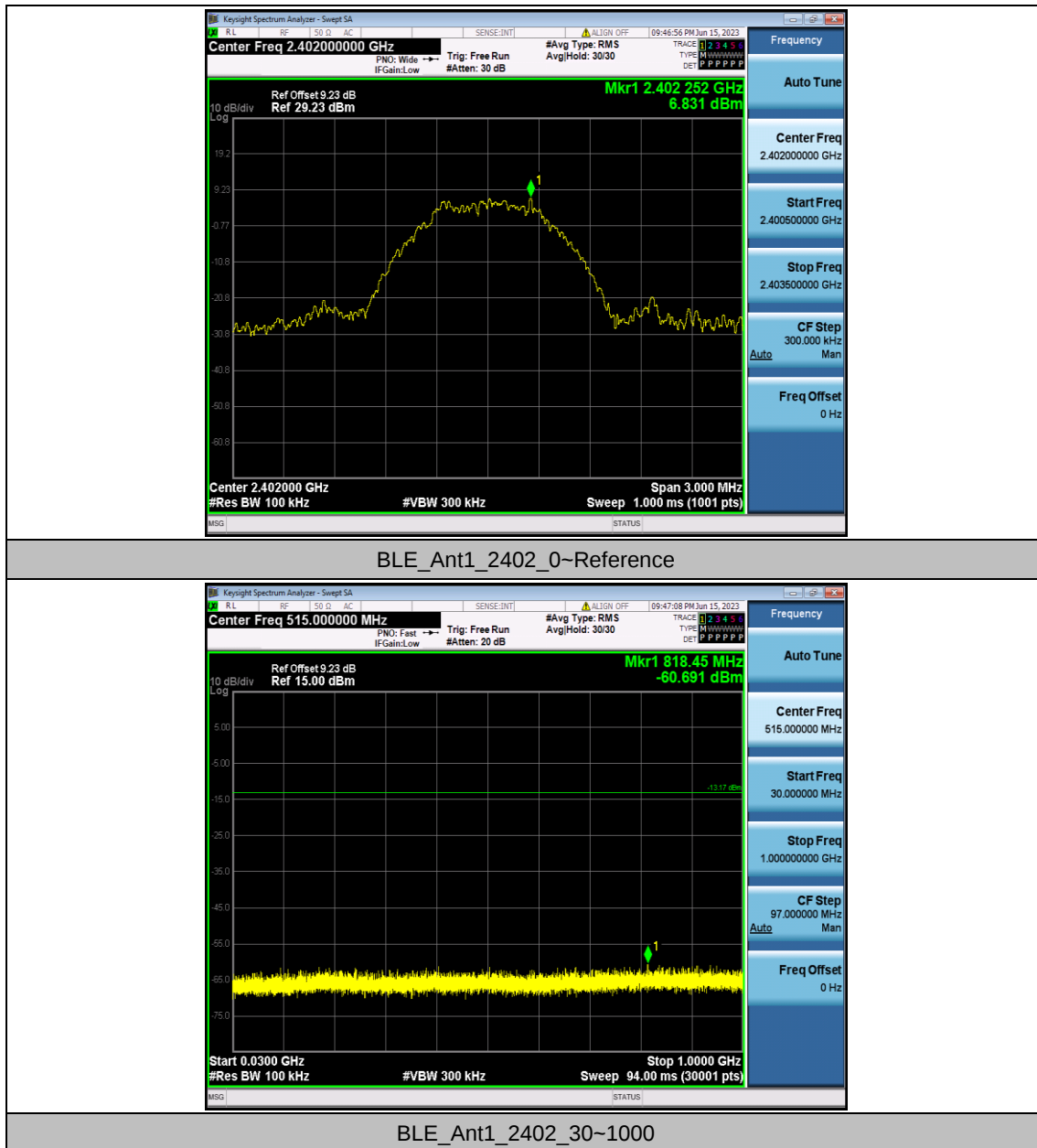


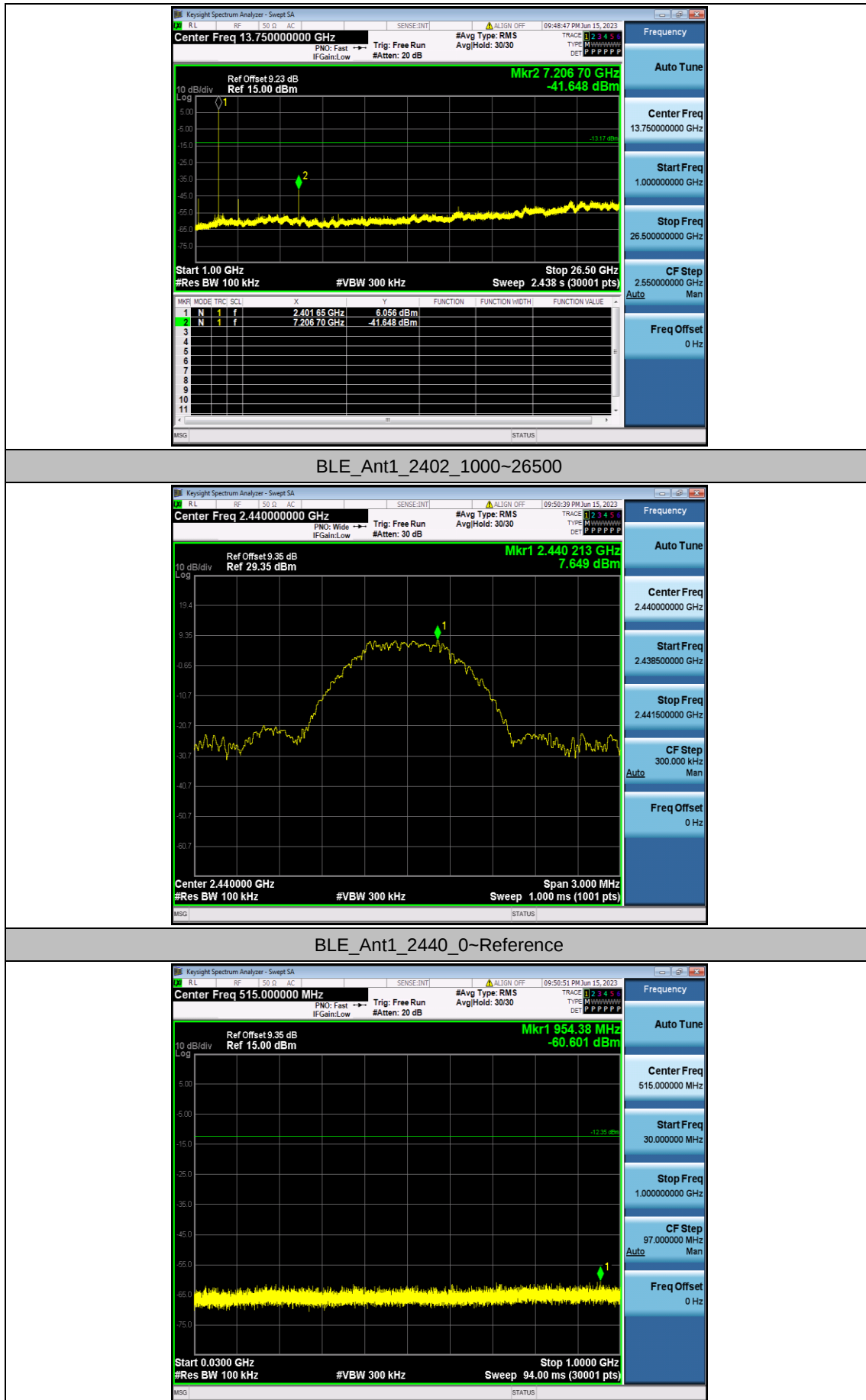
Appendix B.6: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	6.83	6.83	---	PASS
			30~1000	6.83	-60.69	≤ -13.17	PASS
			1000~26500	6.83	-41.65	≤ -13.17	PASS
		2440	Reference	7.65	7.65	---	PASS
			30~1000	7.65	-60.6	≤ -12.35	PASS
			1000~26500	7.65	-45.55	≤ -12.35	PASS
		2480	Reference	7.34	7.34	---	PASS
			30~1000	7.34	-60.47	≤ -12.66	PASS
			1000~26500	7.34	-43.99	≤ -12.66	PASS

Test Graphs





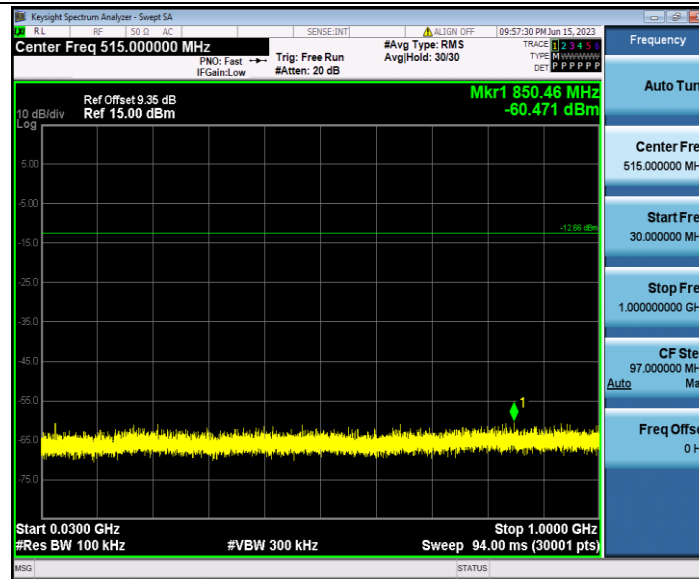
BLE_Ant1_2440_30~1000



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

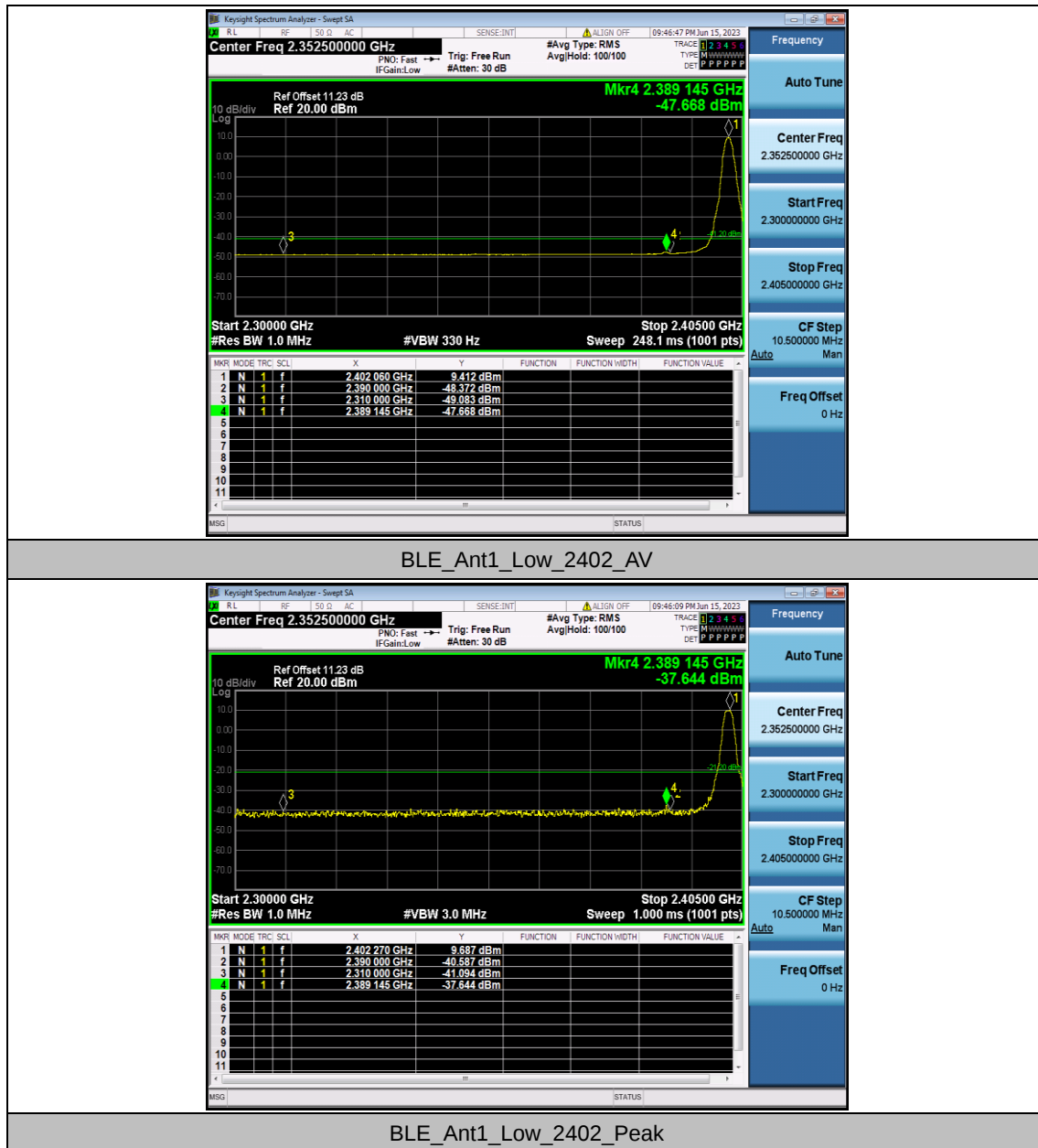
Test Result

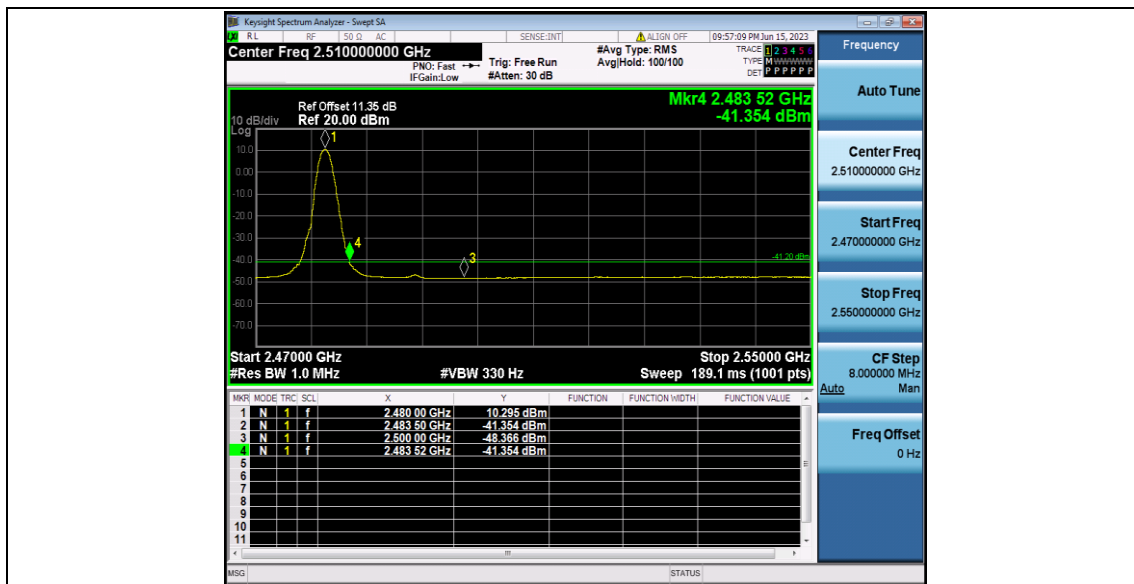
Test Mode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	Ant1	Low	2402	AV	2310.000	-49.08	≤-41.20	46.12	≤54	PASS
				AV	2389.145	-47.67	≤-41.20	47.53	≤54	PASS
				AV	2390.000	-48.37	≤-41.20	46.83	≤54	PASS
				Peak	2310.000	-41.09	≤-21.20	54.11	≤74	PASS
				Peak	2389.145	-37.64	≤-21.20	57.56	≤74	PASS
				Peak	2390.000	-40.59	≤-21.20	54.61	≤74	PASS
		High	2480	AV	2483.500	-41.35	≤-41.20	53.85	≤54	PASS
				AV	2483.520	-41.35	≤-41.20	53.85	≤54	PASS
				AV	2500.000	-48.37	≤-41.20	46.83	≤54	PASS
				Peak	2483.500	-33.98	≤-21.20	61.22	≤74	PASS
				Peak	2483.600	-32.4	≤-21.20	62.80	≤74	PASS
				Peak	2500.000	-41.57	≤-21.20	53.63	≤74	PASS

Note:

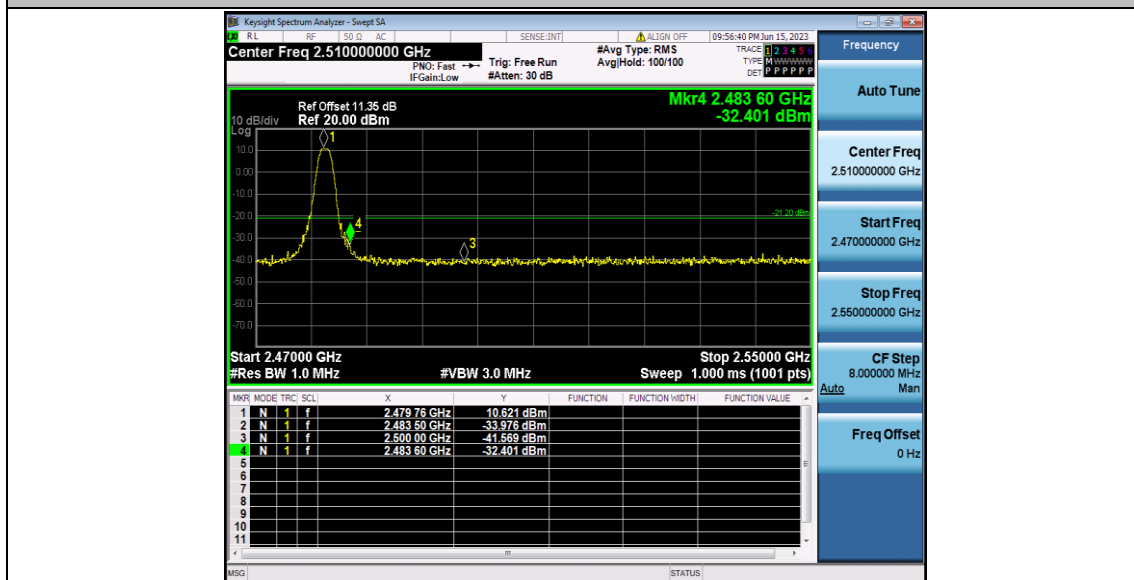
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs





BLE_Ant1_High_2480_AV



BLE_Ant1_High_2480_Peak