

FCC Appendix RF Test Data

FCC ID : 2BMVR-E20

Company: : Shenzhen Tuohai Times Technology Co., Ltd.

EUT : Tablet

Model Number : E20

Report No. : CTA25032701301

Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.676	2402.336	0.5	PASS
		2440	0.648	2439.688	2440.336	0.5	PASS
		2480	0.648	2479.684	2480.332	0.5	PASS

Figure 10 shows two screenshots of the Agilent Spectrum Analyzer interface, displaying the results of a sweep measurement for the BLE_1M_Ant1_2402 and BLE_1M_Ant1_2440 channels. The top screenshot shows the spectrum for BLE_1M_Ant1_2402, with a center frequency of 2.402000000 GHz, a span of 4.000 MHz, and a resolution bandwidth of 100 kHz. The spectrum shows a peak at 2.401673 GHz with a power level of -9.033 dBm. The bottom screenshot shows the spectrum for BLE_1M_Ant1_2440, with a center frequency of 2.440000000 GHz, a span of 4.000 MHz, and a resolution bandwidth of 100 kHz. The spectrum shows a peak at 2.440016 GHz with a power level of -9.188 dBm. Both screenshots include a table of measurement results, showing the center frequency, power level, and other parameters for the detected signals.

Figure 10: Spectrum Analyzer Results

Top Screenshot: BLE_1M_Ant1_2402

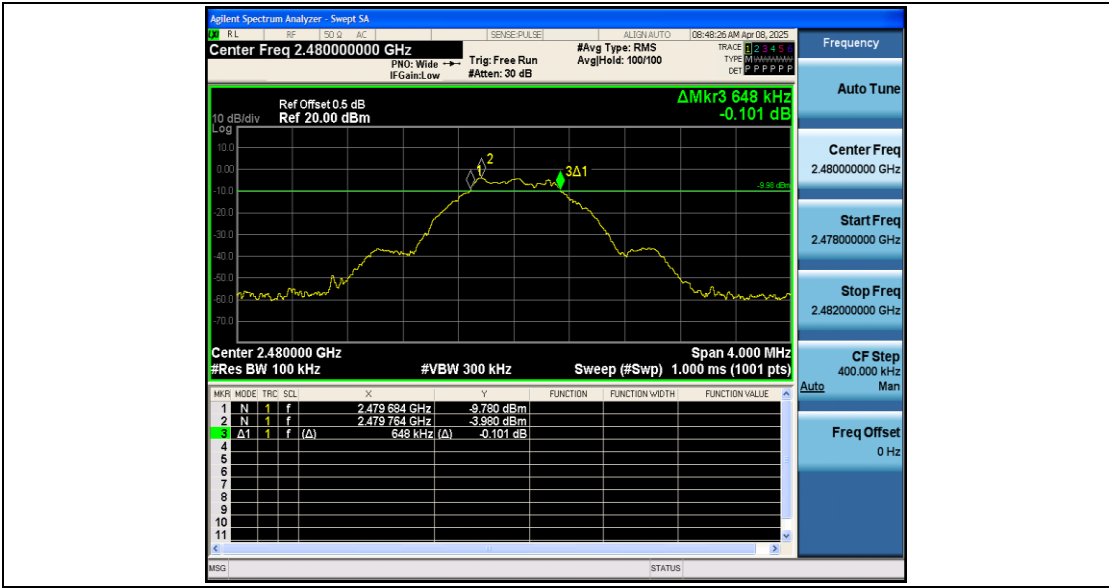
- Center Freq: 2.402000000 GHz
- Span: 4.000 MHz
- Res BW: 100 kHz
- Ref Offset: 0.5 dB
- Ref: 20.00 dBm
- Peak 1: 2.401673 GHz, -9.033 dBm
- Peak 2: 2.401763 GHz, -9.091 dBm
- Peak 3: 2.401863 GHz, -9.149 dBm

MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.401 673 GHz	-9.033 dBm			
2	N	1	f	2.401 763 GHz	-9.091 dBm			
3	Δ1	1	f (Δ)	660 kHz (Δ)	0.336 dB			

Bottom Screenshot: BLE_1M_Ant1_2440

- Center Freq: 2.440000000 GHz
- Span: 4.000 MHz
- Res BW: 100 kHz
- Ref Offset: 0.5 dB
- Ref: 20.00 dBm
- Peak 1: 2.439688 GHz, -9.183 dBm
- Peak 2: 2.440016 GHz, -9.615 dBm
- Peak 3: 2.440328 GHz, -10.047 dBm

MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.439 688 GHz	-9.183 dBm			
2	N	1	f	2.440 016 GHz	-9.615 dBm			
3	Δ1	1	f (Δ)	648 kHz (Δ)	-0.188 dB			

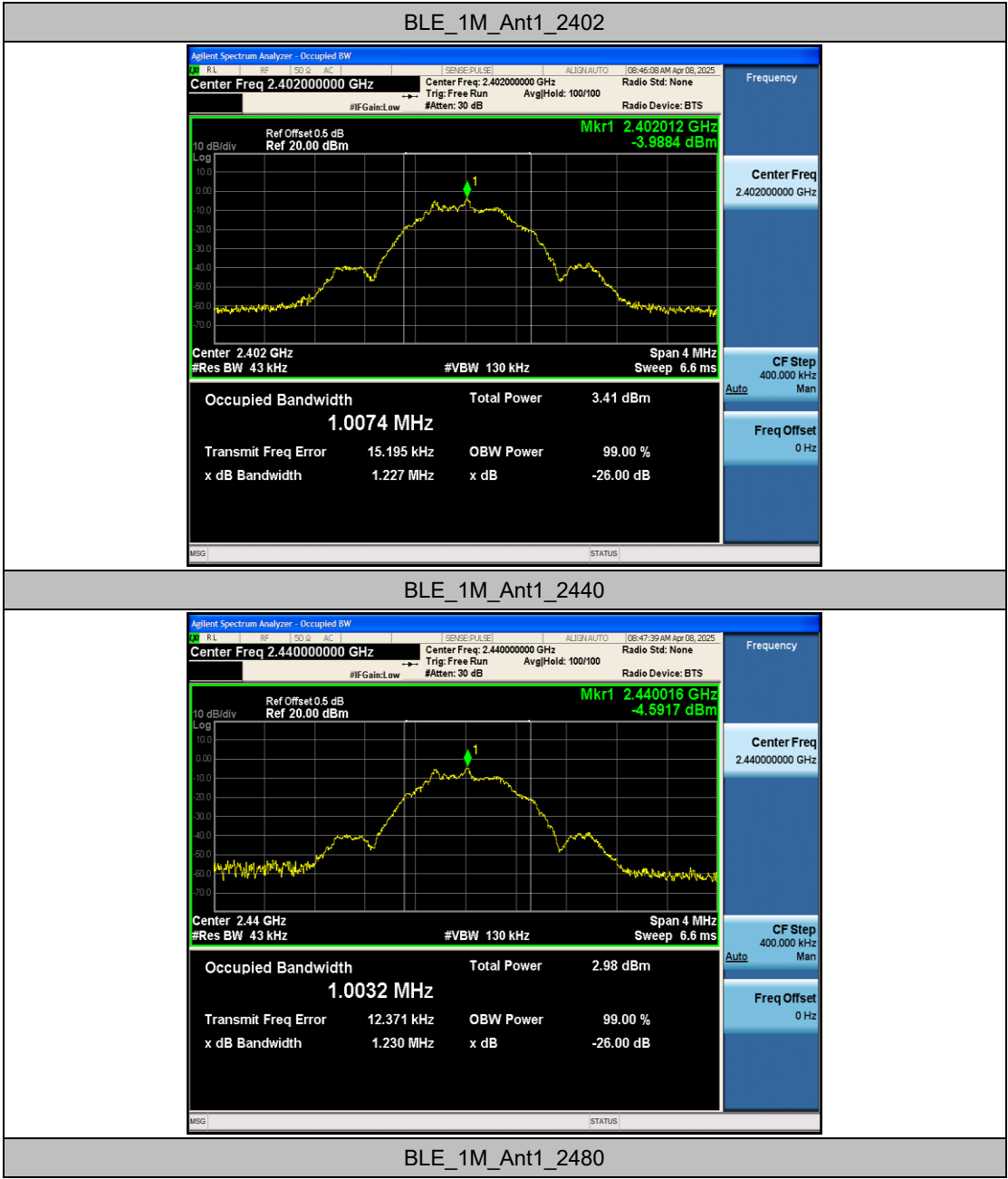


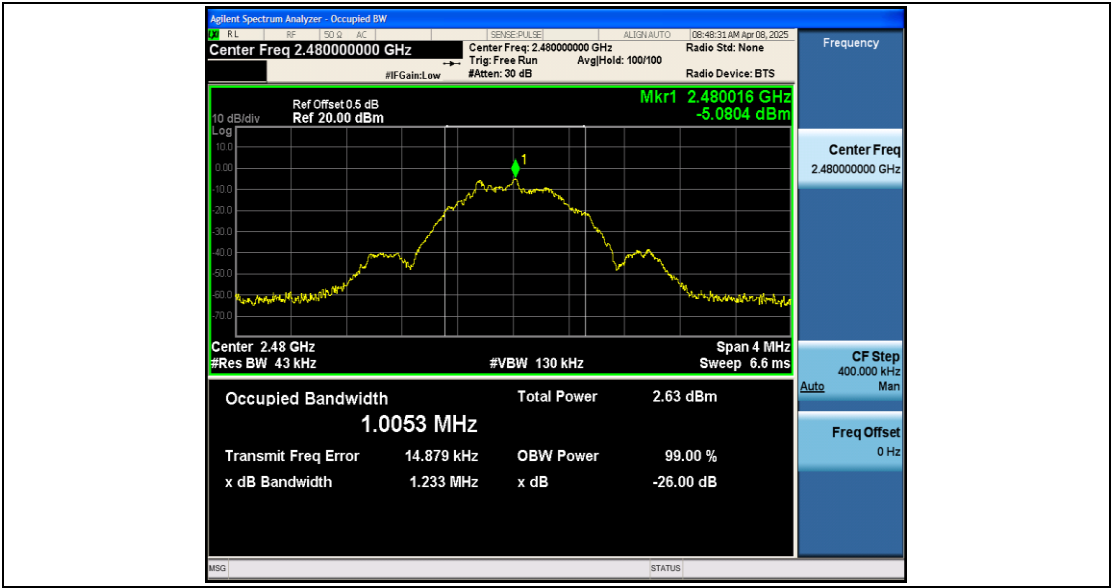
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0074	2401.5115	2402.5189	---	---
		2440	1.0032	2439.5108	2440.5140	---	---
		2480	1.0053	2479.5122	2480.5175	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

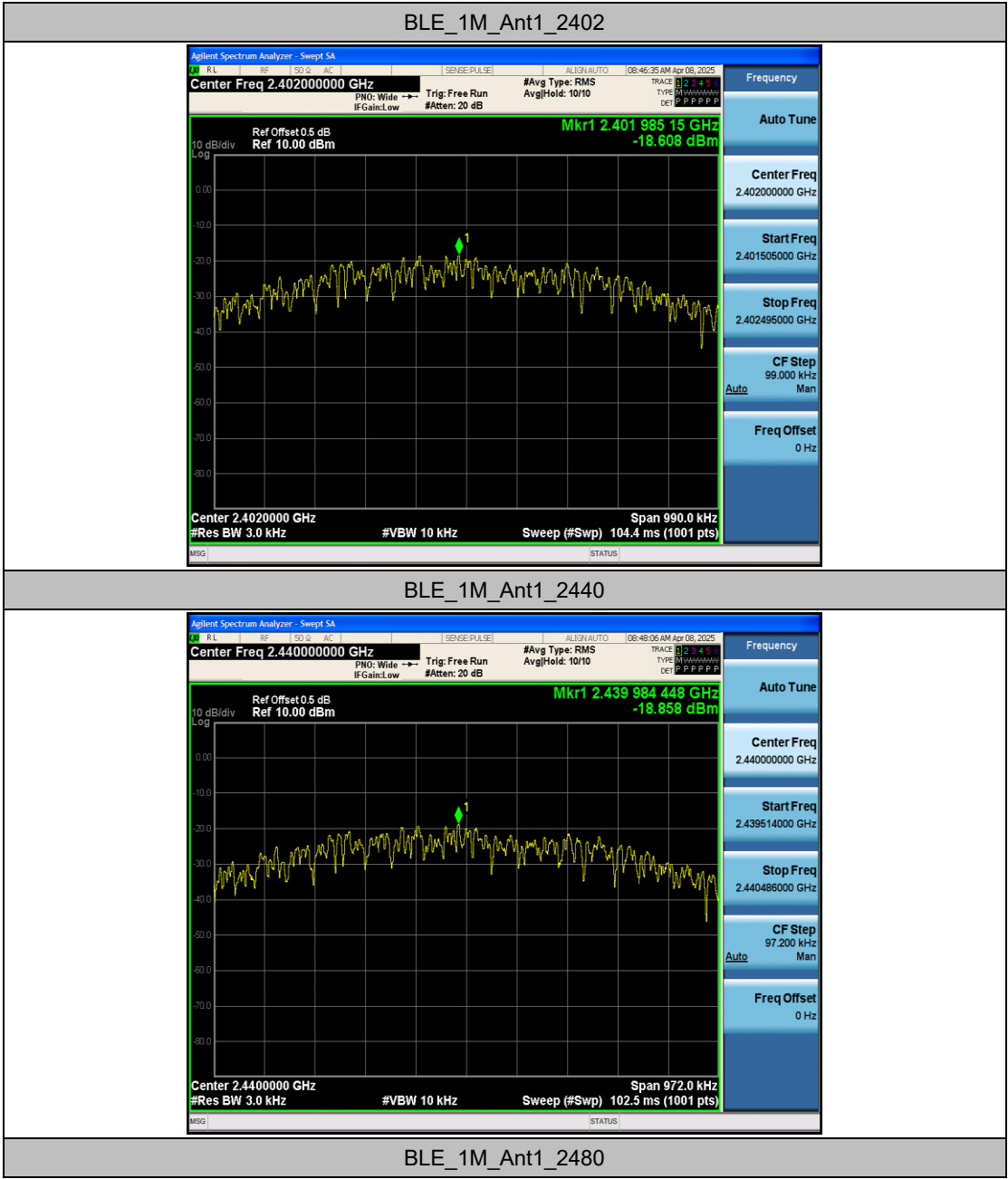
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.71	≤30	PASS
		2440	-3.28	≤30	PASS
		2480	-3.58	≤30	PASS

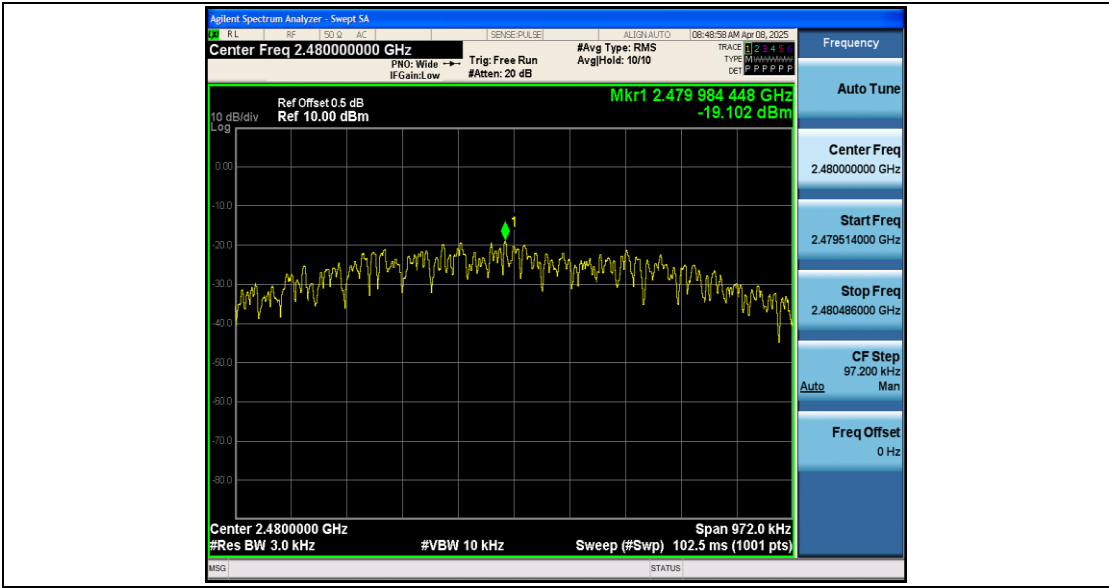
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.61	≤8.00	PASS
		2440	-18.86	≤8.00	PASS
		2480	-19.10	≤8.00	PASS

Test Graphs



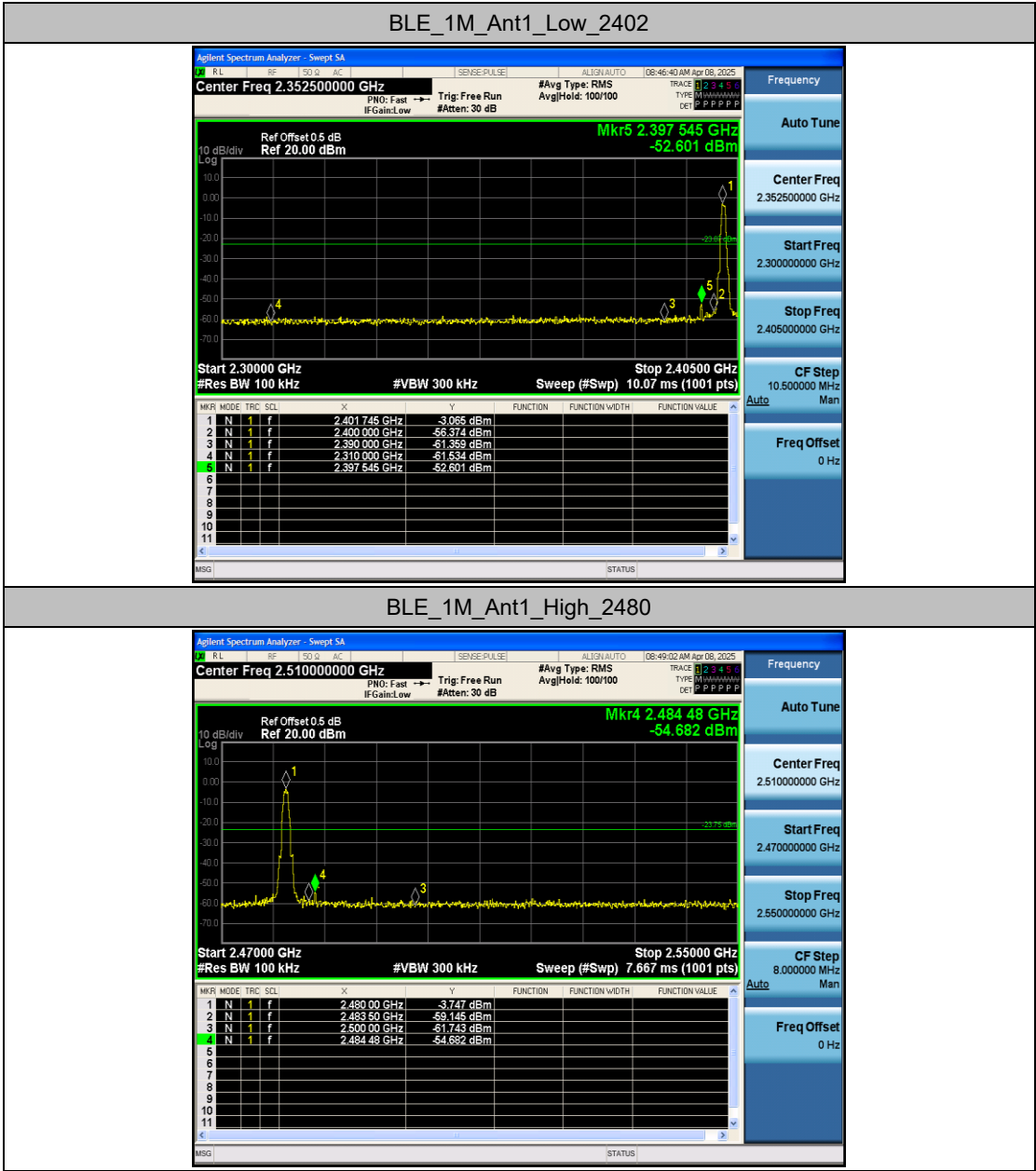


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.07	-52.6	≤ -23.07	PASS
		High	2480	-3.75	-54.68	≤ -23.75	PASS

Test Graphs

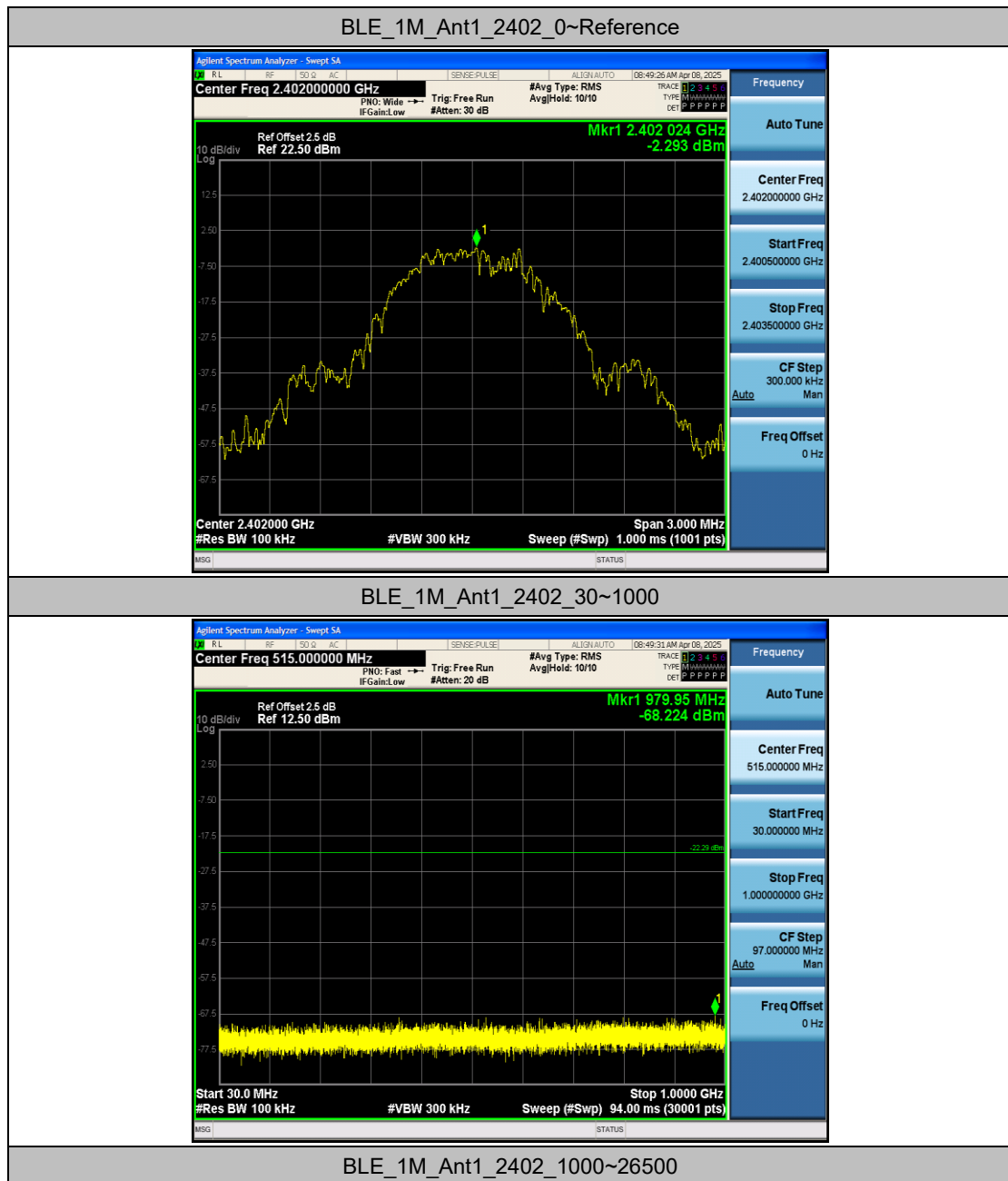


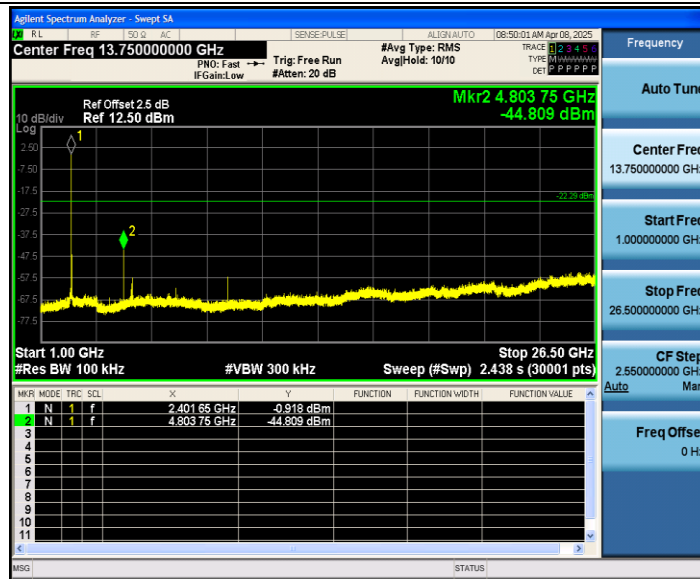
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.29	-2.29	---	PASS
			30~1000	-2.29	-68.22	≤-22.29	PASS
			1000~26500	-2.29	-44.81	≤-22.29	PASS
		2440	Reference	-2.97	-2.97	---	PASS
			30~1000	-2.97	-68.23	≤-22.97	PASS
			1000~26500	-2.97	-45.75	≤-22.97	PASS
		2480	Reference	-2.47	-2.47	---	PASS
			30~1000	-2.47	-67.4	≤-22.47	PASS
			1000~26500	-2.47	-46.2	≤-22.47	PASS

Test Graphs

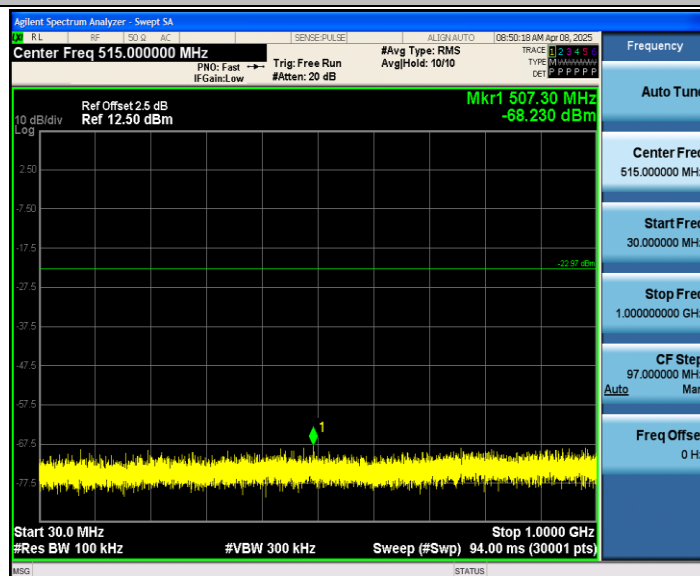




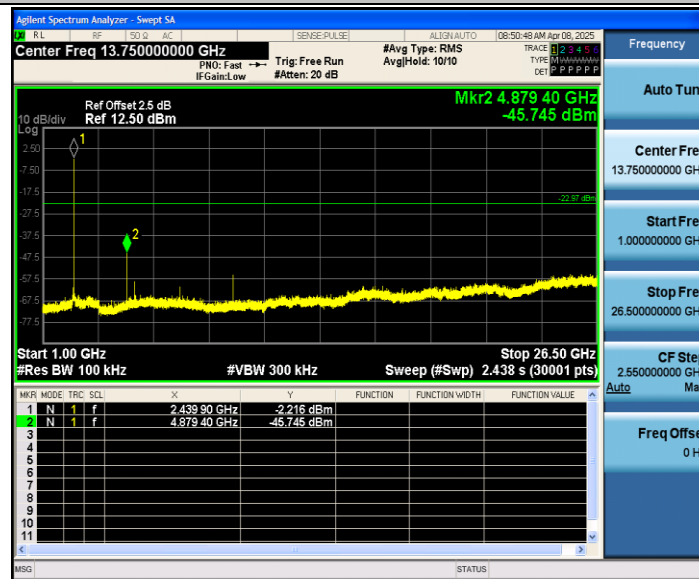
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



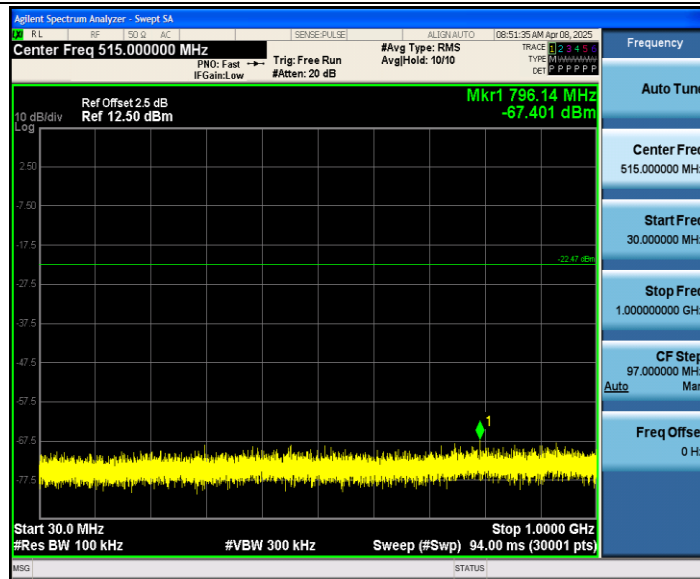
BLE_1M_Ant1_2440_1000~26500



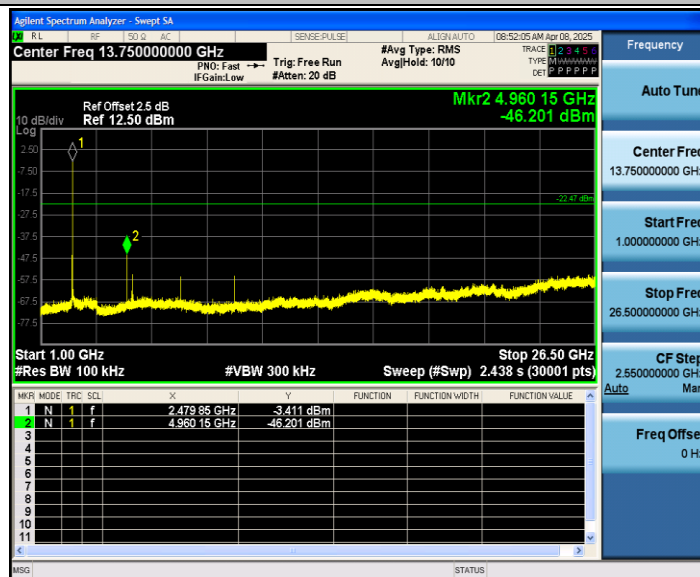
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.41	0.63	0.6508	65.08	1.87	---	---
		2440	0.41	0.63	0.6508	65.08	1.87	---	---
		2480	0.41	0.63	0.6508	65.08	1.87	---	---

Test Graphs

