

FCC Appendix RF Test Data for BLE

FCC ID : 2BQHT-T11620-6

Company : DAMASCO TRADING LLC

EUT : 10.95 inch Tablet

Model Number : T11620-6

Report No. : CTA25112200106

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	0.652	2401.688	2402.340	0.5	PASS
		2440	0.644	2439.692	2440.336	0.5	PASS
		2480	0.640	2479.696	2480.336	0.5	PASS
BLE_2M	Ant1	2402	1.120	2401.444	2402.564	0.5	PASS
		2440	1.100	2439.444	2440.544	0.5	PASS
		2480	1.092	2479.452	2480.544	0.5	PASS

Agilent Spectrum Analyzer - Sweep SA

Center Freq 2.402000000 GHz

Ref Offset 0.7 dB
Ref 20.00 dBm

Trig: Free Run
#Att: 30 dB

#Avg Type: RMS
Avg/Hold: 100/100

TYPE: Δ P P P P P
DET: P P P P P

Frequency

Auto Tune

Center Freq
2.402000000 GHz

Start Freq
2.400000000 GHz

Stop Freq
2.404000000 GHz

CF Step
400.000 kHz

Auto

Freq Offset
0 Hz

Log

10 dB/div

Ref Offset 0.7 dB
Ref 20.00 dBm

Span 4.000 MHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep (#Swp) 1.000 ms (1001 pts)

MR MODE TRG SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE

1	N	1	f	2.401 688 GHz	-9.539 dBm			
2	N	1	f	2.402 038 GHz	-3.598 dBm			
3	Δ 1	1	f (Δ)	652 kHz (Δ)	-0.032 dB			

MSG

STATUS

BLE_1M_Ant1_2402

Agilent Spectrum Analyzer - Sweep SA

Center Freq 2.440000000 GHz

Ref Offset 0.7 dB
Ref 20.00 dBm

Trig: Free Run
#Att: 30 dB

#Avg Type: RMS
Avg/Hold: 100/100

TYPE: Δ P P P P P
DET: P P P P P

Frequency

Auto Tune

Center Freq
2.440000000 GHz

Start Freq
2.438000000 GHz

Stop Freq
2.442000000 GHz

CF Step
400.000 kHz

Auto

Freq Offset
0 Hz

Log

10 dB/div

Ref Offset 0.7 dB
Ref 20.00 dBm

Span 4.000 MHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep (#Swp) 1.000 ms (1001 pts)

MR MODE TRG SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE

1	N	1	f	2.439 692 GHz	-9.496 dBm			
2	N	1	f	2.439 764 GHz	-4.029 dBm			
3	Δ 1	1	f (Δ)	644 kHz (Δ)	0.074 dB			

MSG

STATUS

BLE_1M_Ant1_2440



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

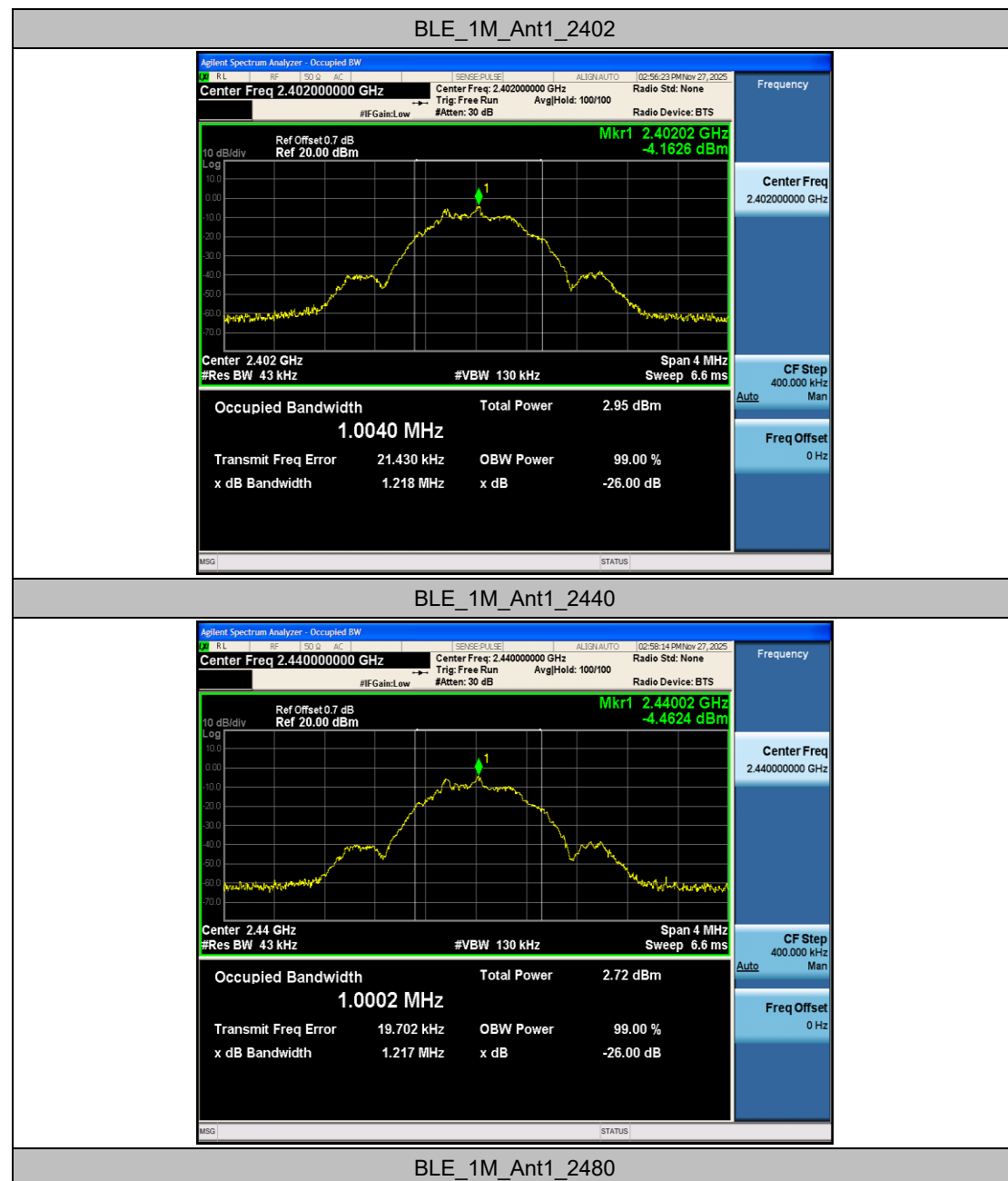


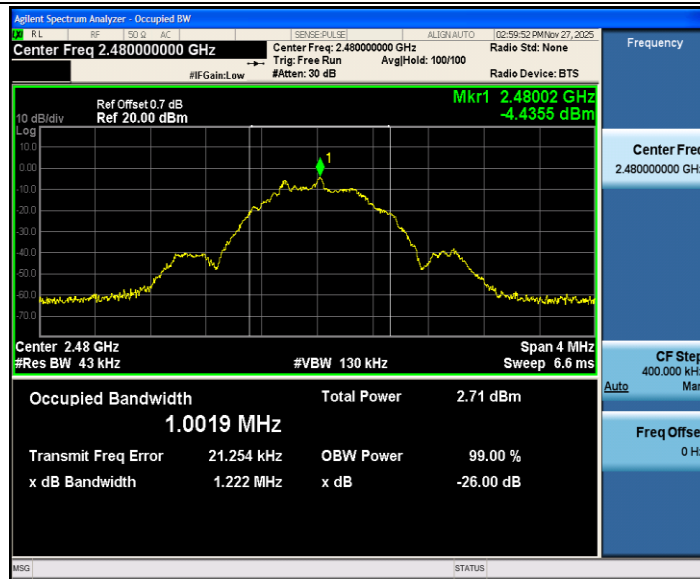
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0040	2401.5194	2402.5234	---	---
		2440	1.0002	2439.5196	2440.5198	---	---
		2480	1.0019	2479.5203	2480.5222	---	---
BLE_2M	Ant1	2402	1.9931	2401.0354	2403.0285	---	---
		2440	2.0033	2439.0309	2441.0342	---	---
		2480	1.9905	2479.0323	2481.0228	---	---

Test Graphs





BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

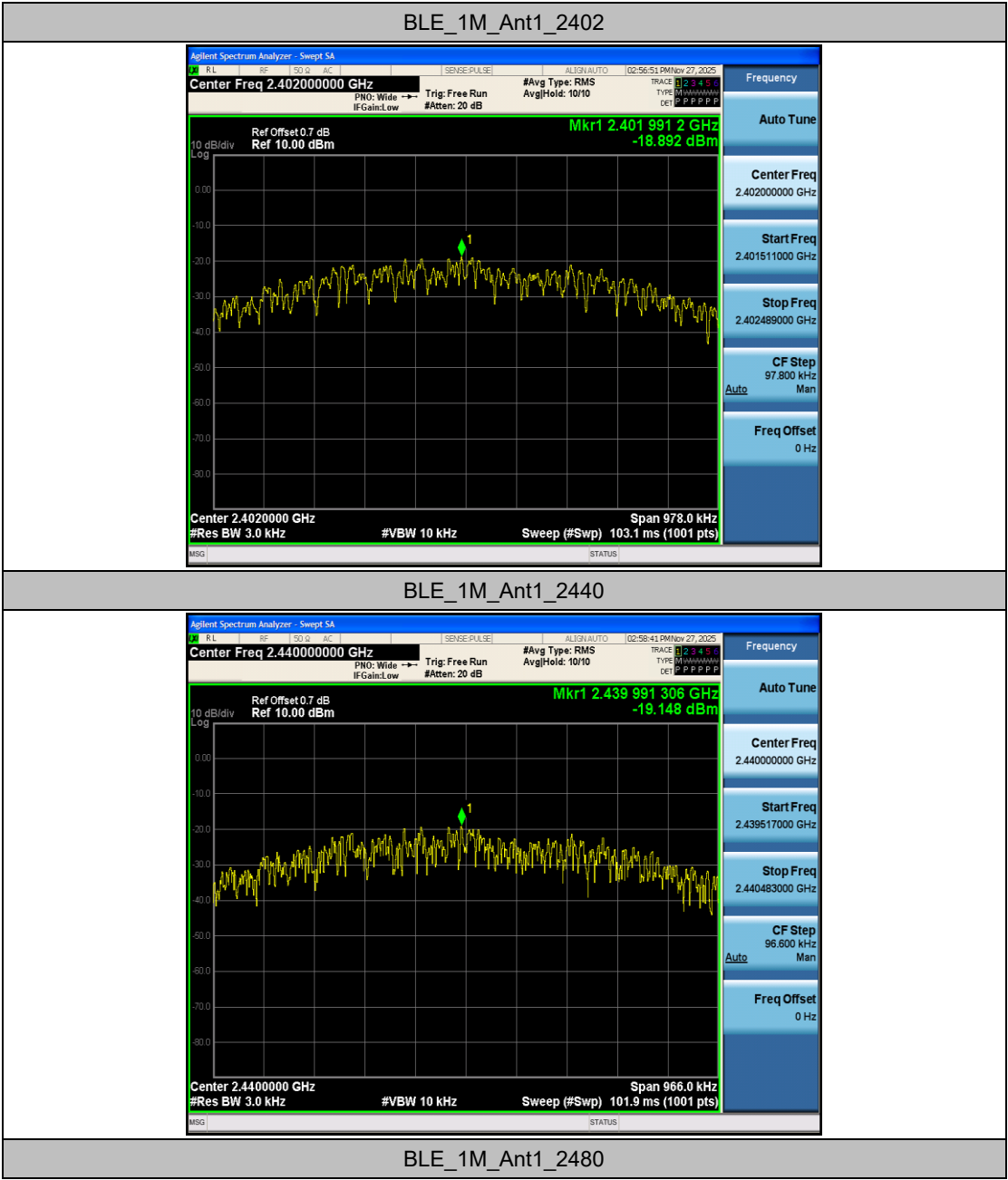
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.06	≤30	PASS
		2440	-3.39	≤30	PASS
		2480	-3.40	≤30	PASS
BLE_2M	Ant1	2402	-3.09	≤30	PASS
		2440	-3.39	≤30	PASS
		2480	-3.40	≤30	PASS

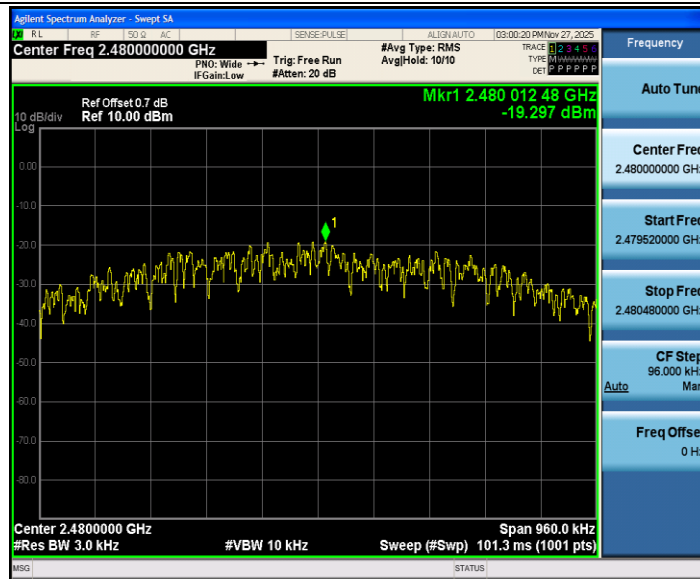
Appendix D: Maximum power spectral density

Test Result

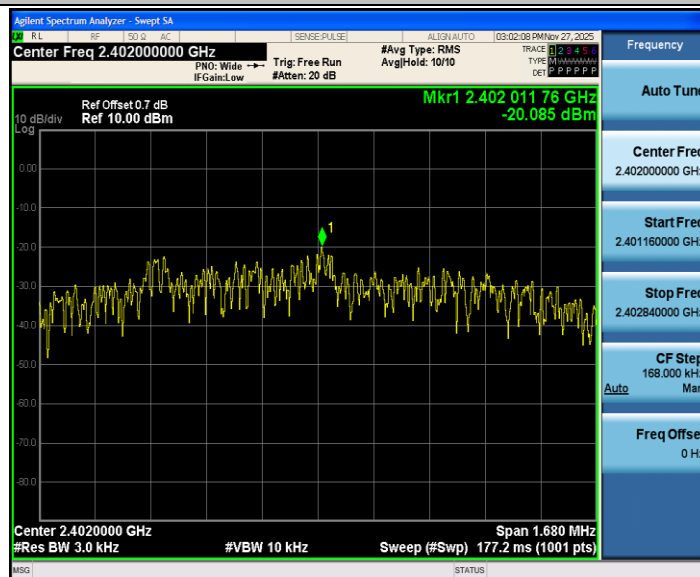
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.89	≤8.00	PASS
		2440	-19.15	≤8.00	PASS
		2480	-19.30	≤8.00	PASS
BLE_2M	Ant1	2402	-20.09	≤8.00	PASS
		2440	-20.60	≤8.00	PASS
		2480	-20.88	≤8.00	PASS

Test Graphs

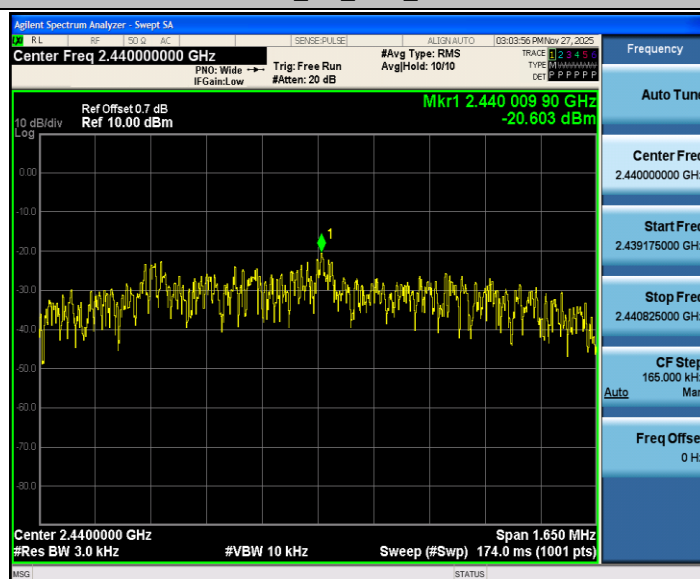




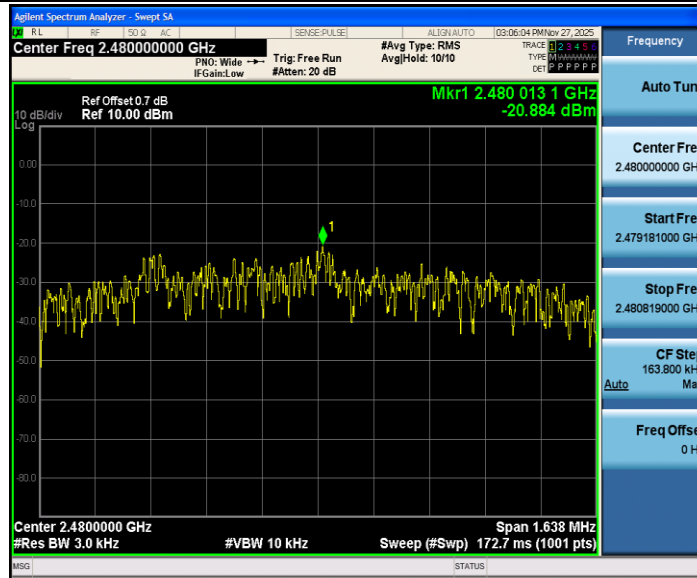
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

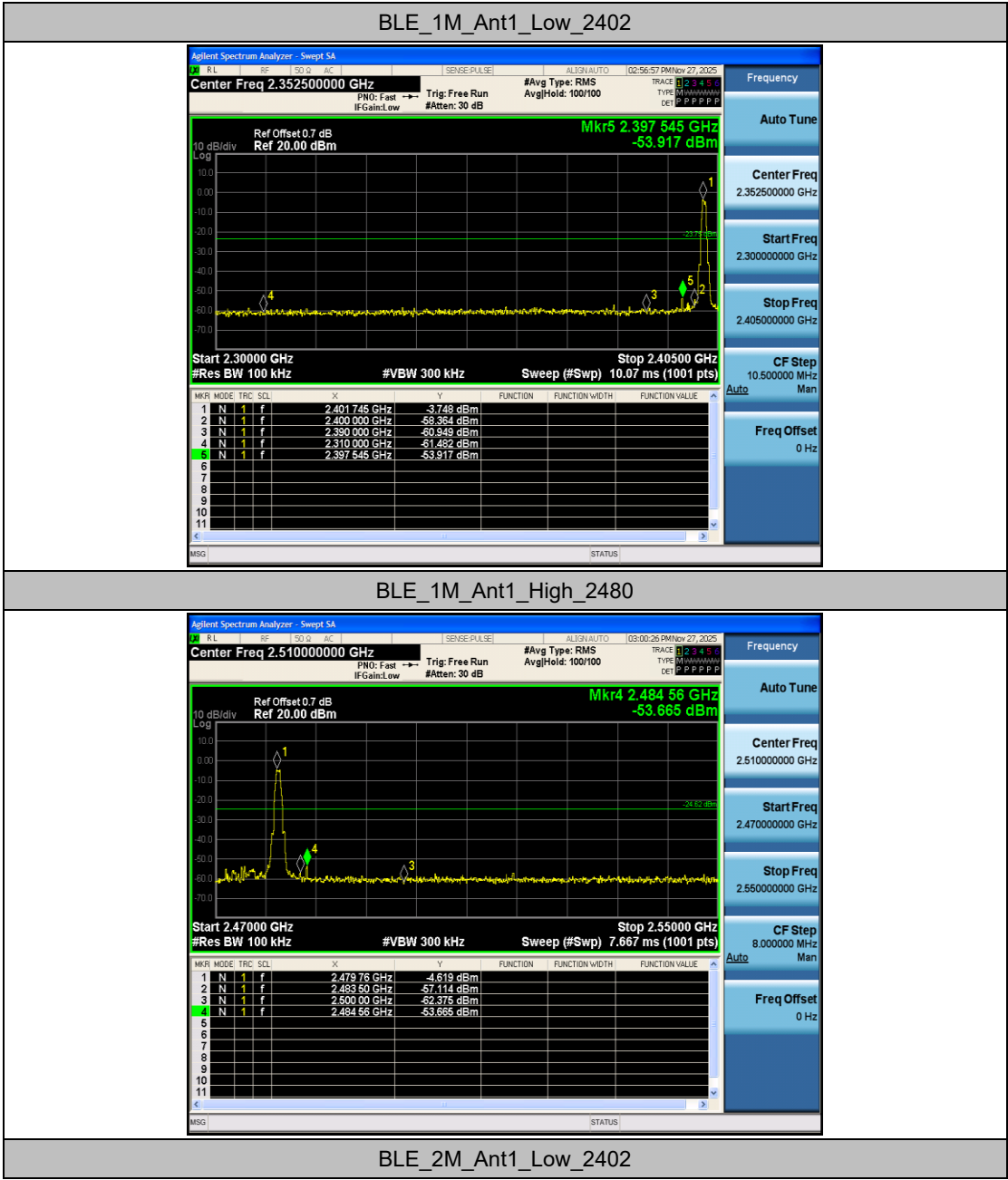


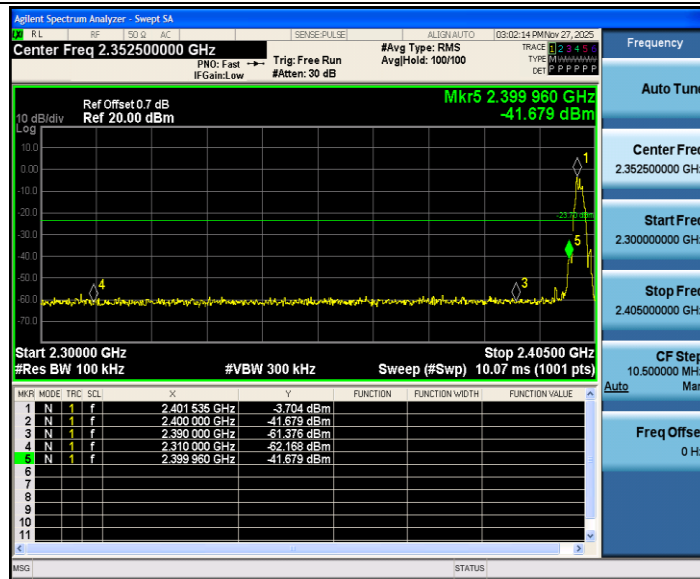
Appendix E: Band edge measurements

Test Result

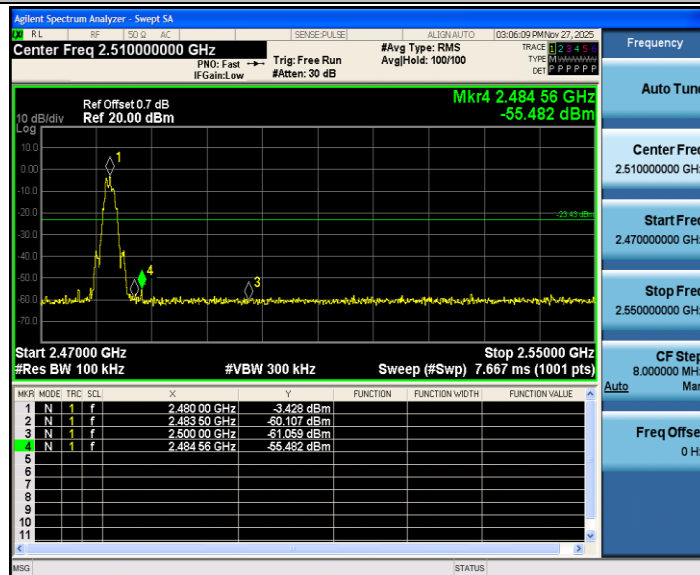
TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-3.75	-53.92	≤-23.75	PASS
		High	2480	-4.62	-53.67	≤-24.62	PASS
BLE_2M	Ant1	Low	2402	-3.70	-41.68	≤-23.7	PASS
		High	2480	-3.43	-55.48	≤-23.43	PASS

Test Graphs





BLE_2M_Ant1_High_2480

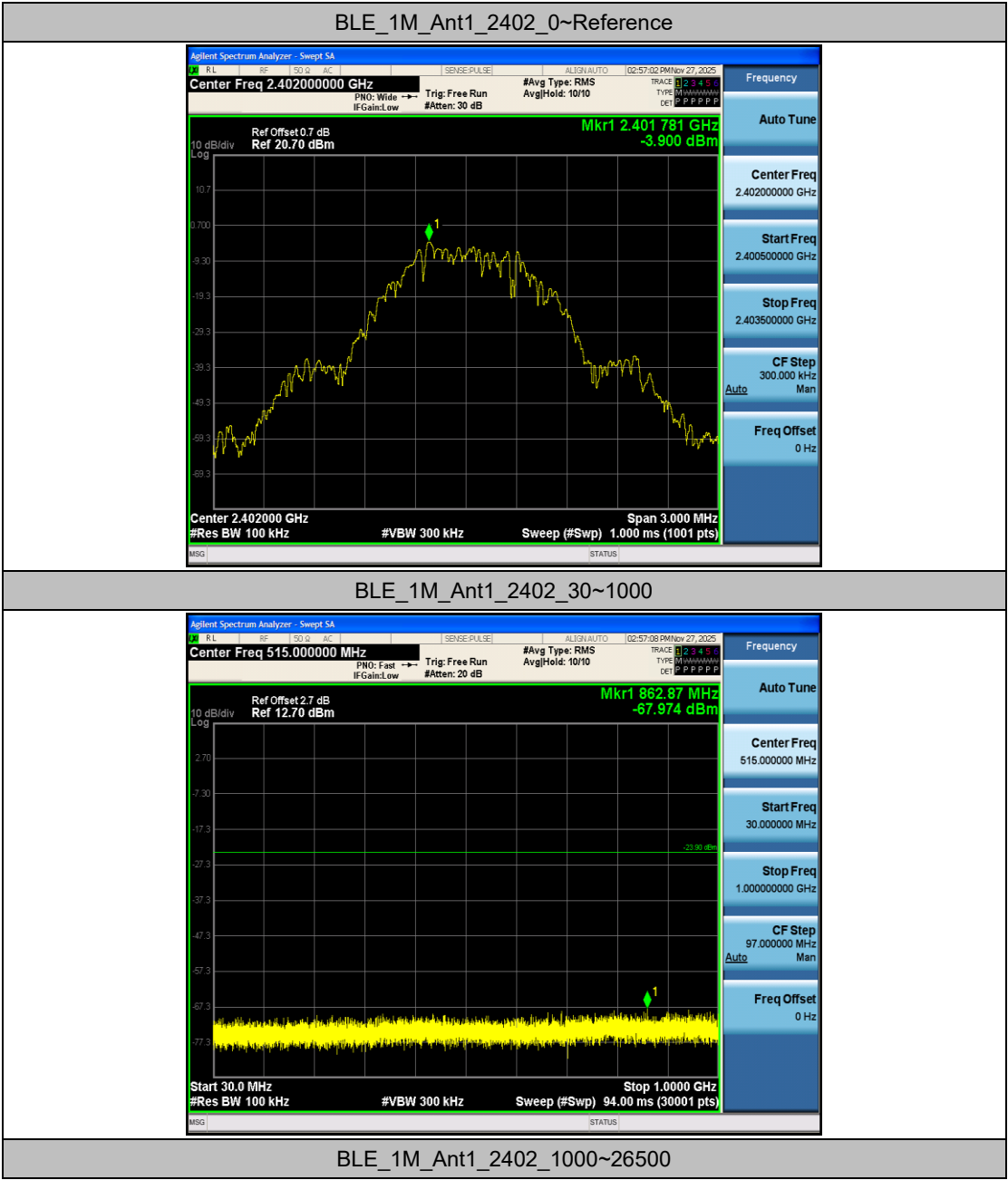


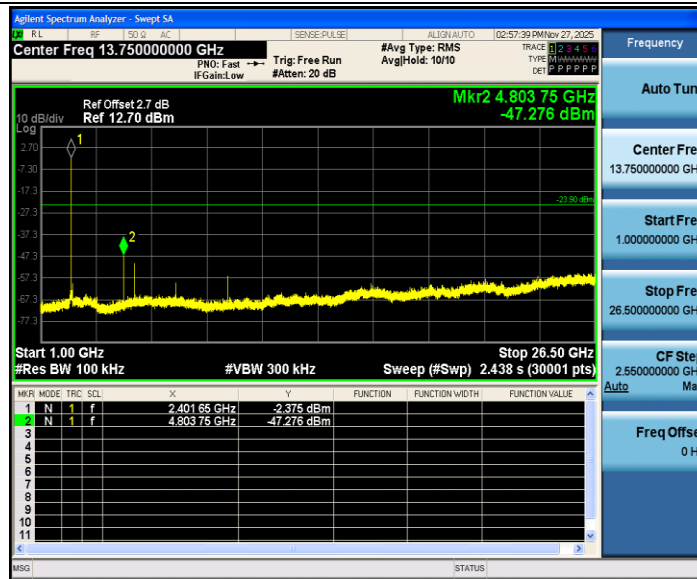
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.90	-3.90	---	PASS
			30~1000	-3.90	-67.97	≤-23.9	PASS
			1000~26500	-3.90	-47.28	≤-23.9	PASS
		2440	Reference	-3.82	-3.82	---	PASS
			30~1000	-3.82	-67.93	≤-23.82	PASS
			1000~26500	-3.82	-44.65	≤-23.82	PASS
		2480	Reference	-3.58	-3.58	---	PASS
			30~1000	-3.58	-66.48	≤-23.58	PASS
			1000~26500	-3.58	-47.74	≤-23.58	PASS
BLE_2M	Ant1	2402	Reference	-5.68	-5.68	---	PASS
			30~1000	-5.68	-68.16	≤-25.68	PASS
			1000~26500	-5.68	-48.4	≤-25.68	PASS
		2440	Reference	-4.38	-4.38	---	PASS
			30~1000	-4.38	-67.28	≤-24.38	PASS
			1000~26500	-4.38	-47.38	≤-24.38	PASS
		2480	Reference	-4.35	-4.35	---	PASS
			30~1000	-4.35	-66.76	≤-24.35	PASS
			1000~26500	-4.35	-49.26	≤-24.35	PASS

Test Graphs

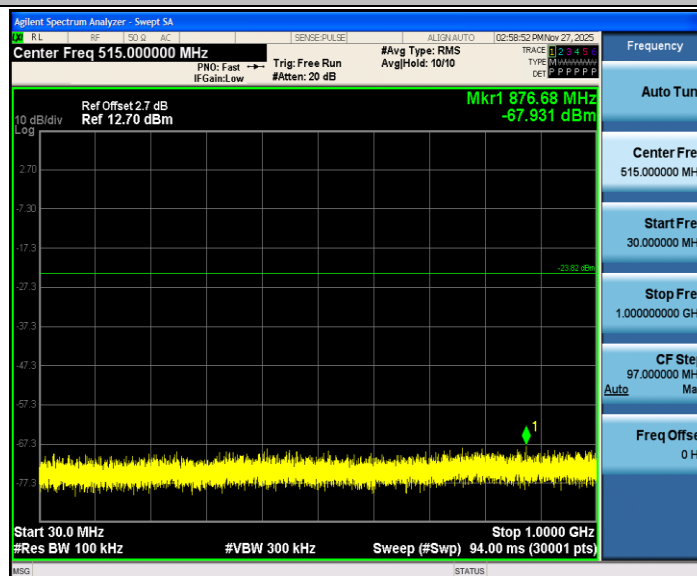




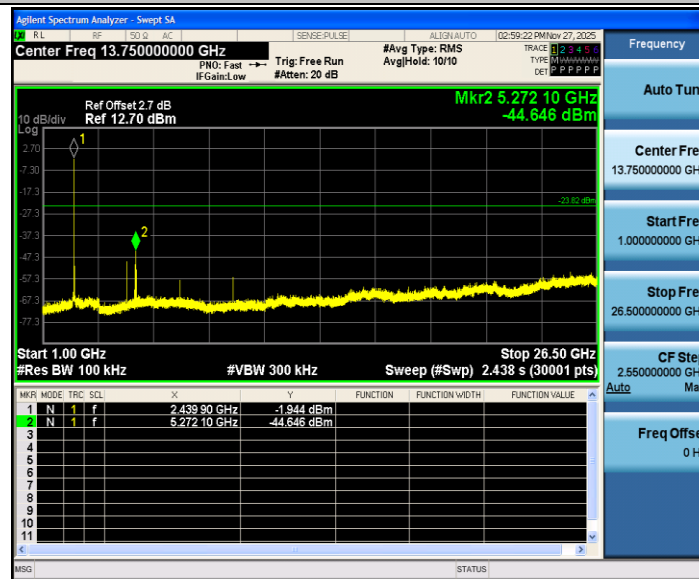
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



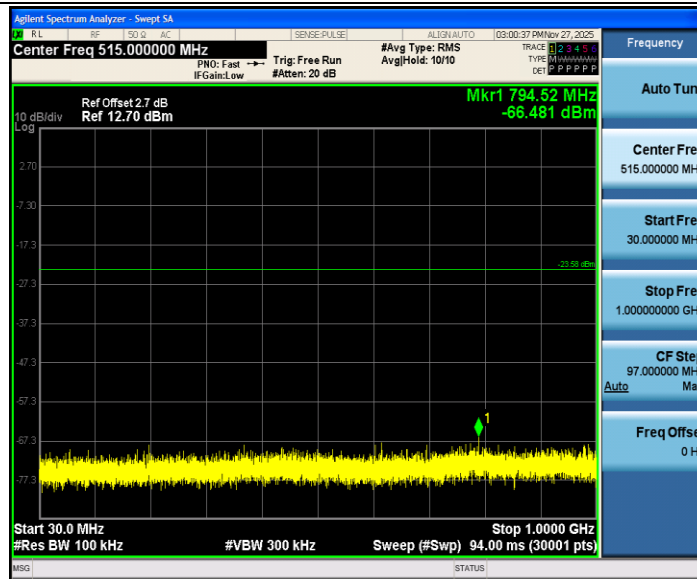
BLE_1M_Ant1_2440_1000~26500



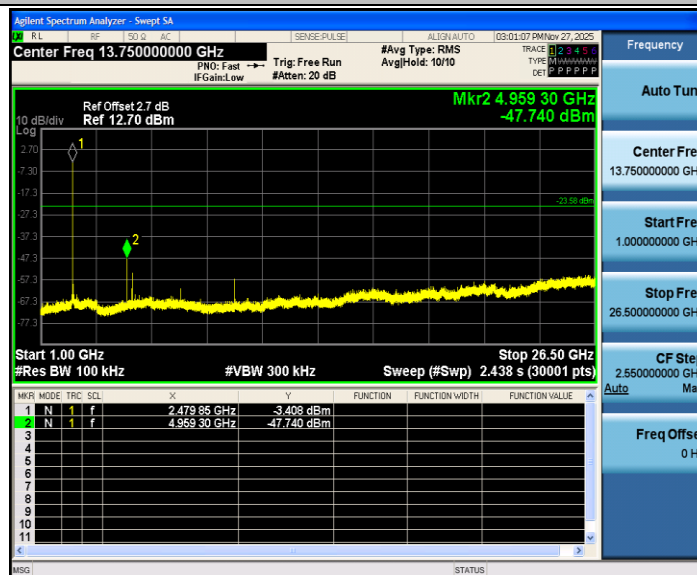
BLE_1M_Ant1_2480_0~Reference



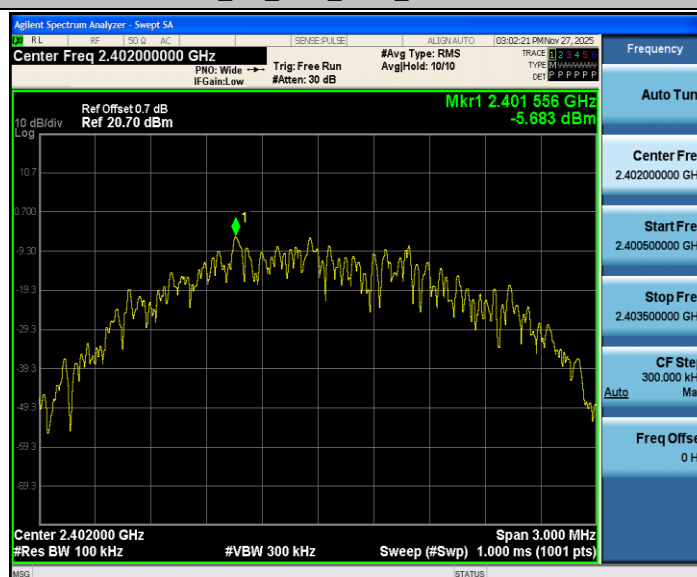
BLE_1M_Ant1_2480_30~1000



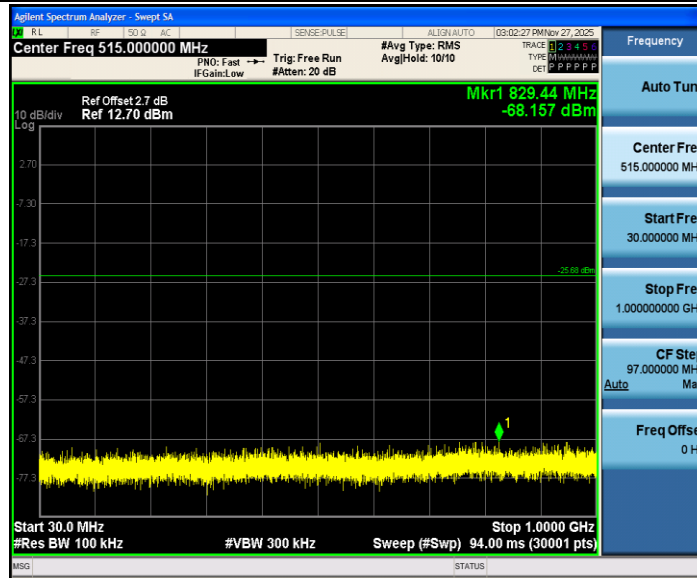
BLE_1M_Ant1_2480_1000~26500



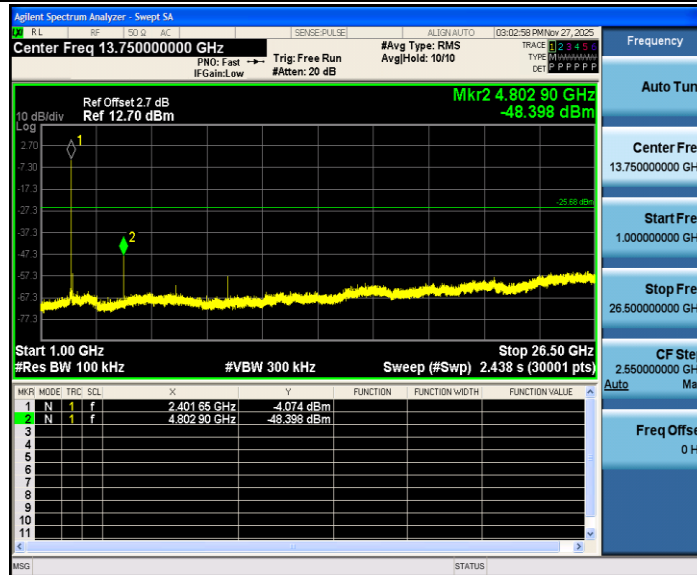
BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000



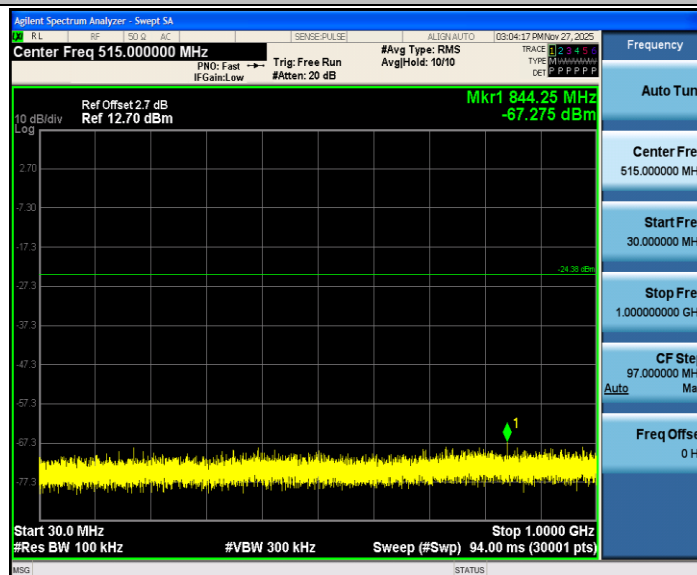
BLE_2M_Ant1_2402_1000~26500



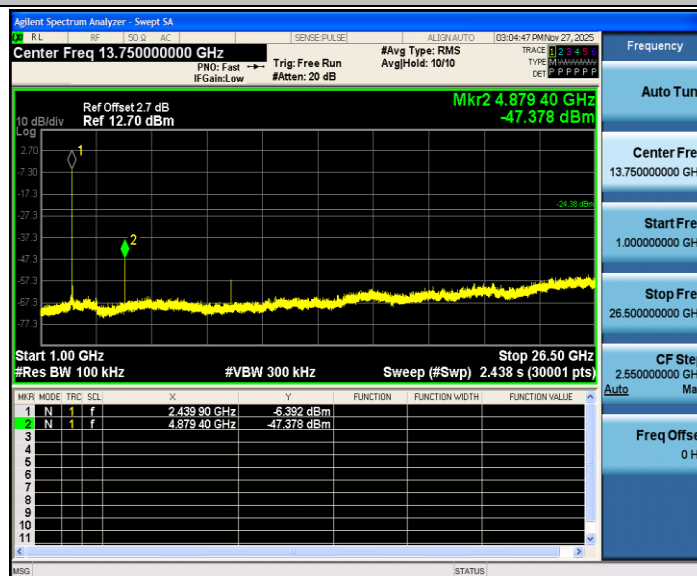
BLE_2M_Ant1_2440_0~Reference



BLE_2M_Ant1_2440_30~1000



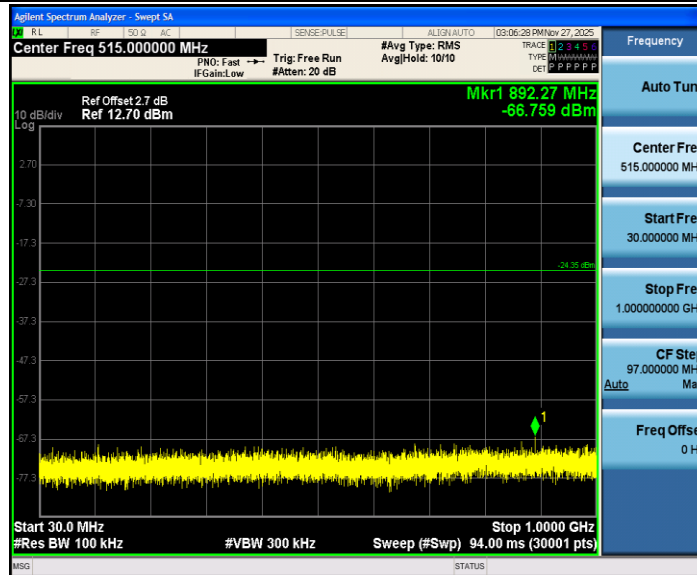
BLE_2M_Ant1_2440_1000~26500



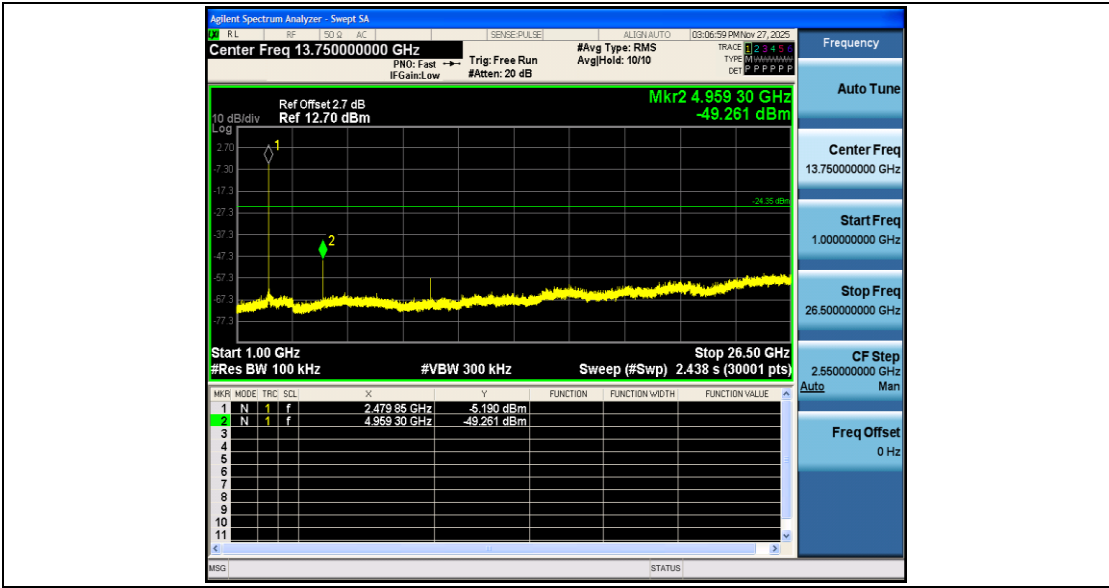
BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500

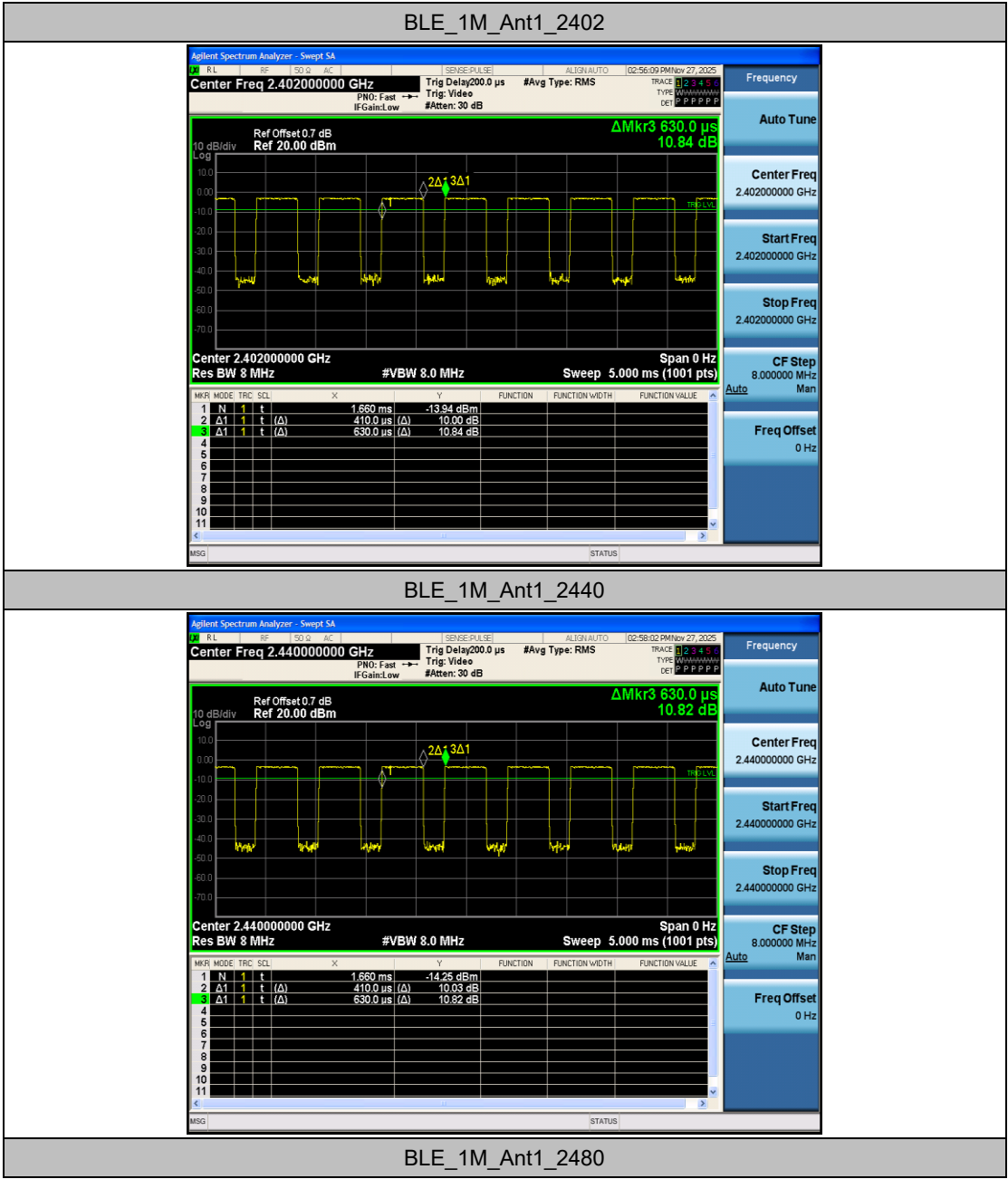


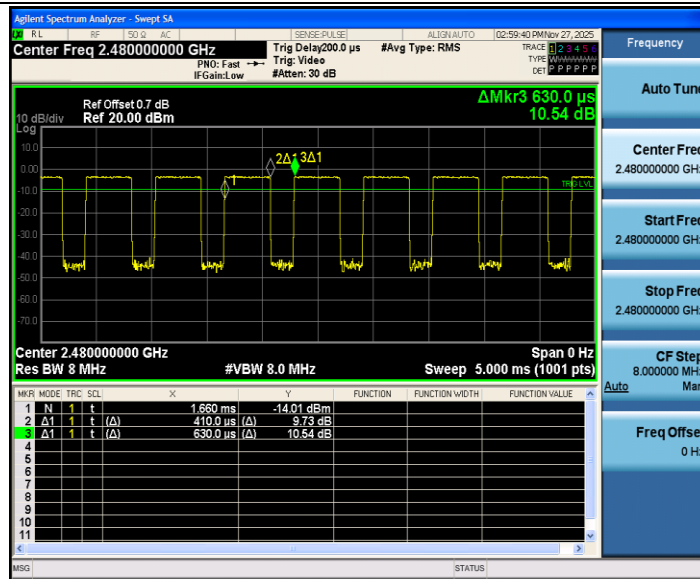
Appendix G: Duty Cycle

Test Result

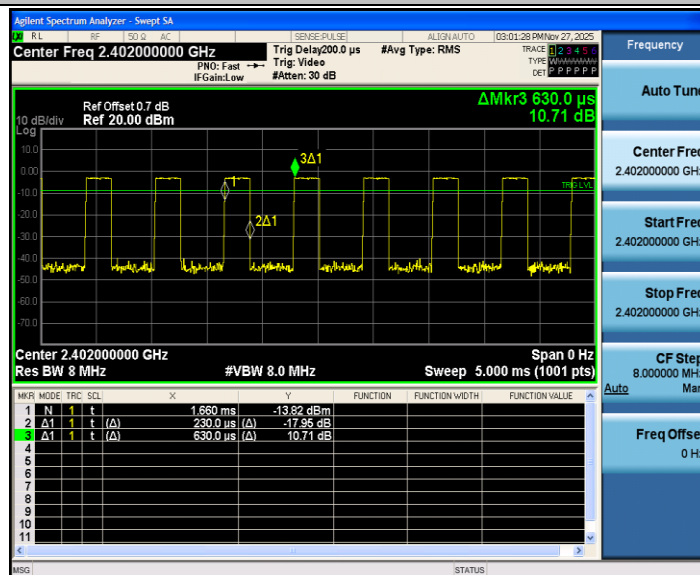
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.41	0.63	0.6508	65.08	1.87	---	---
		2440	0.41	0.63	0.6508	65.08	1.87	---	---
		2480	0.41	0.63	0.6508	65.08	1.87	---	---
BLE_2M	Ant1	2402	0.23	0.63	0.3651	36.51	4.38	---	---
		2440	0.23	0.63	0.3651	36.51	4.38	---	---
		2480	0.23	0.63	0.3651	36.51	4.38	---	---

Test Graphs

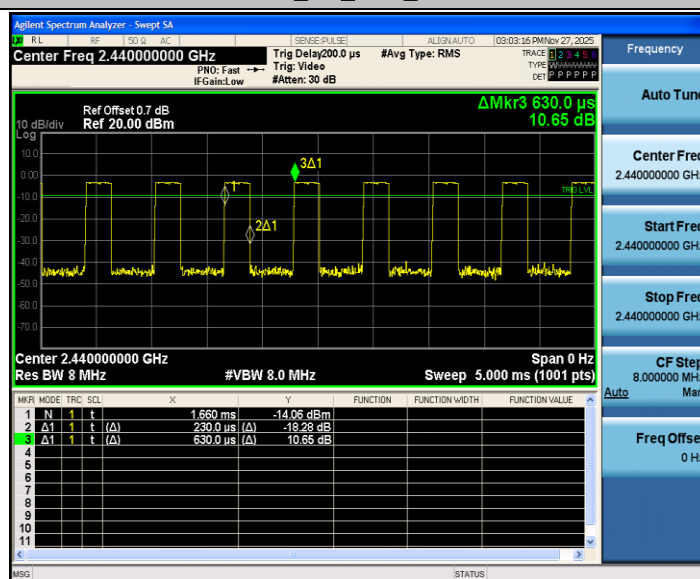




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

