

FCC Appendix RF Test Data for BLE

FCC ID : 2BU7L-1-L-TAG01P

Company : Shenzhen Tenbay IoT Technology Co., Ltd.

EUT : Lenovo TAG Pro

Model Number : L-TAG01P

Report No. : CTA26030200401

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	0.636	2401.696	2402.332	0.5	PASS
		2440	0.656	2439.684	2440.340	0.5	PASS
		2480	0.656	2479.688	2480.344	0.5	PASS

Test Graphs



BLE_1M_Ant1_2440

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.440000000 GHz

Ref Offset 0.3 dB
Ref 30.00 dBm

10 dB/div
Log

Span 4.000 MHz

Center 2.440000 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 1.000 ms (1001 pts)

Trig: Free Run

#Att: 40 dB

#Avg Type: RMS

Avg/Hold: 100/100

01:26:42 AM Mar 04, 2026

TYPE M P P P P P P

DET P P P P P P P

Auto Tune

Center Freq 2.440000000 GHz

Start Freq 2.438000000 GHz

Stop Freq 2.442000000 GHz

CF Step 400.000 kHz

Man

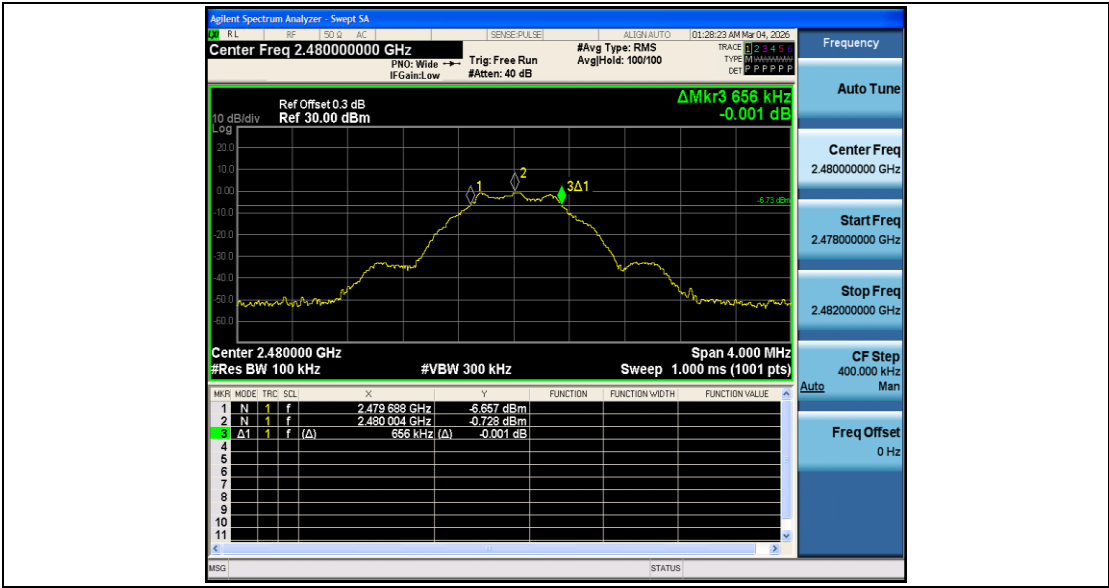
Freq Offset 0 Hz

MSG

STATUS

MARK	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.439684 GHz	-5.552 dBm			
2	N	1	f	2.439764 GHz	-0.759 dBm			
3	Δ	1	f (Δ)	656 kHz (Δ)	0.117 dB			

BLE_1M_Ant1_2480

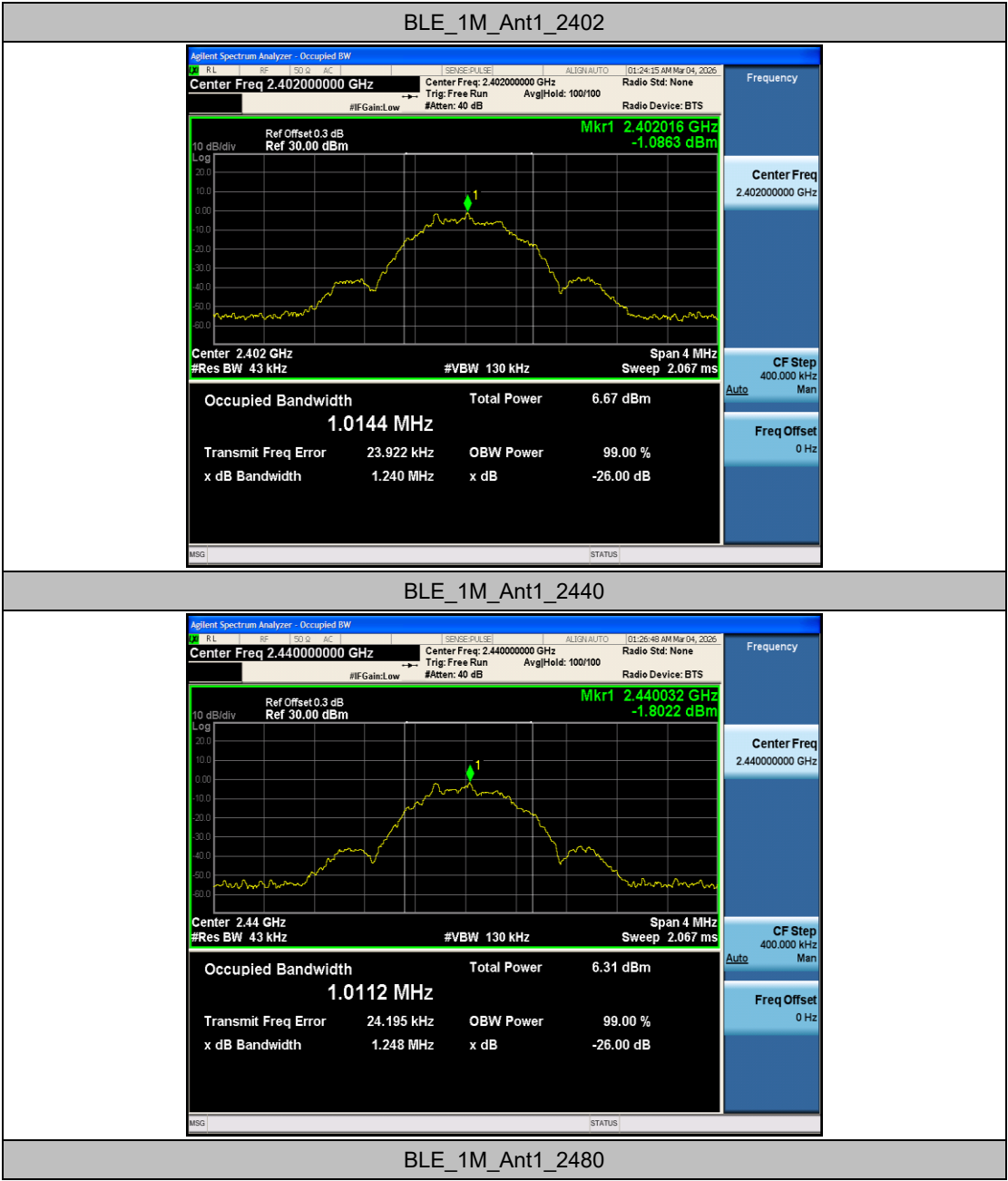


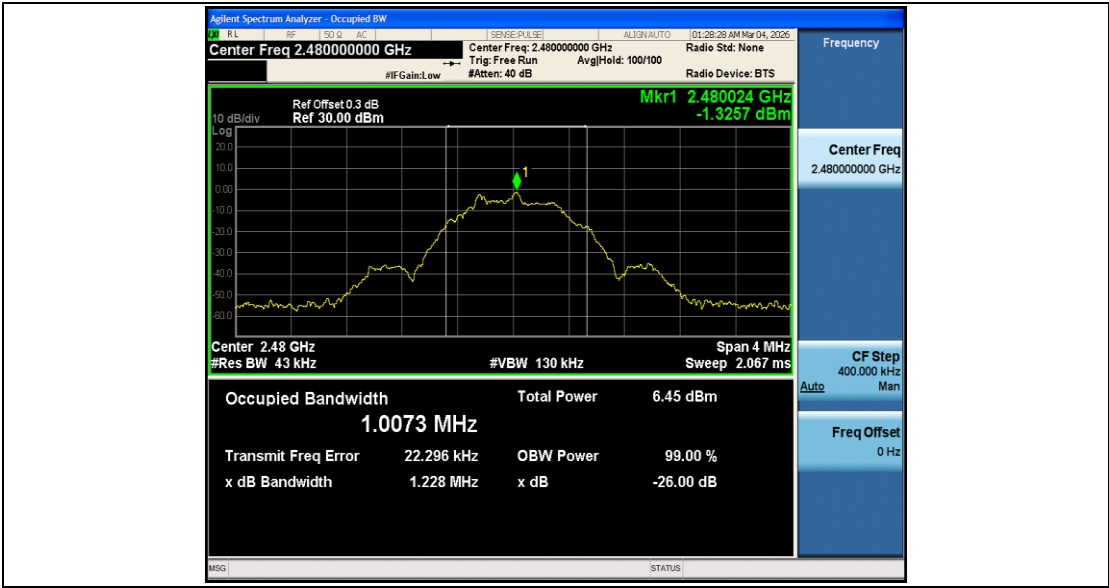
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0144	2401.5167	2402.5311	---	---
		2440	1.0112	2439.5186	2440.5298	---	---
		2480	1.0073	2479.5187	2480.5260	---	---

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	0.14	≤30	PASS
		2440	-0.24	≤30	PASS
		2480	-0.31	≤30	PASS

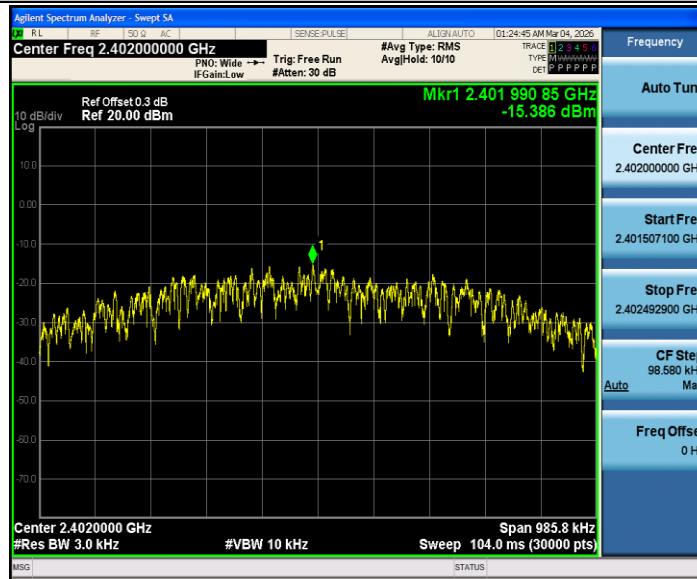
Appendix D: Maximum power spectral density

Test Result

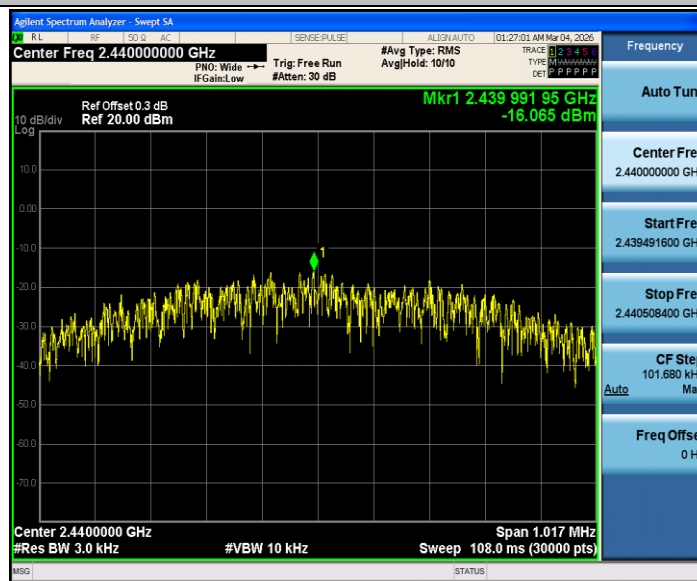
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.39	≤8.00	PASS
		2440	-16.07	≤8.00	PASS
		2480	-15.88	≤8.00	PASS

Test Graphs

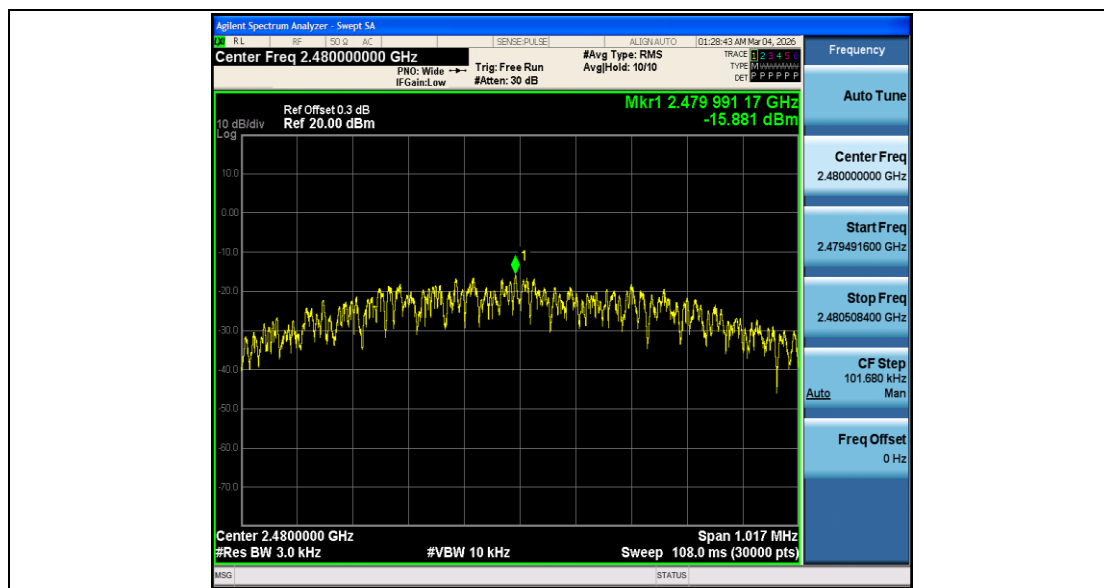
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

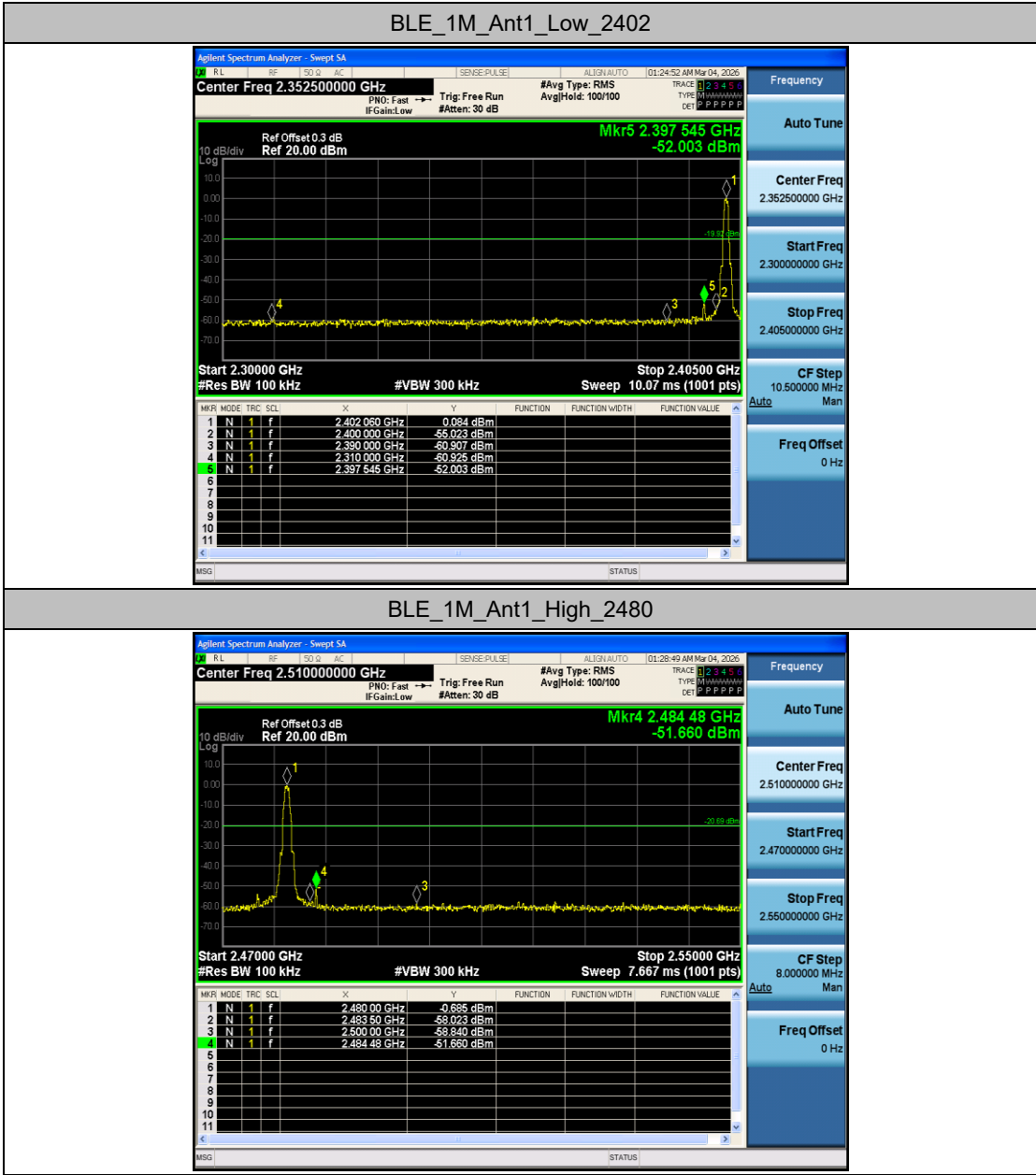


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.08	-52	≤-19.92	PASS
		High	2480	-0.69	-51.66	≤-20.69	PASS

Test Graphs

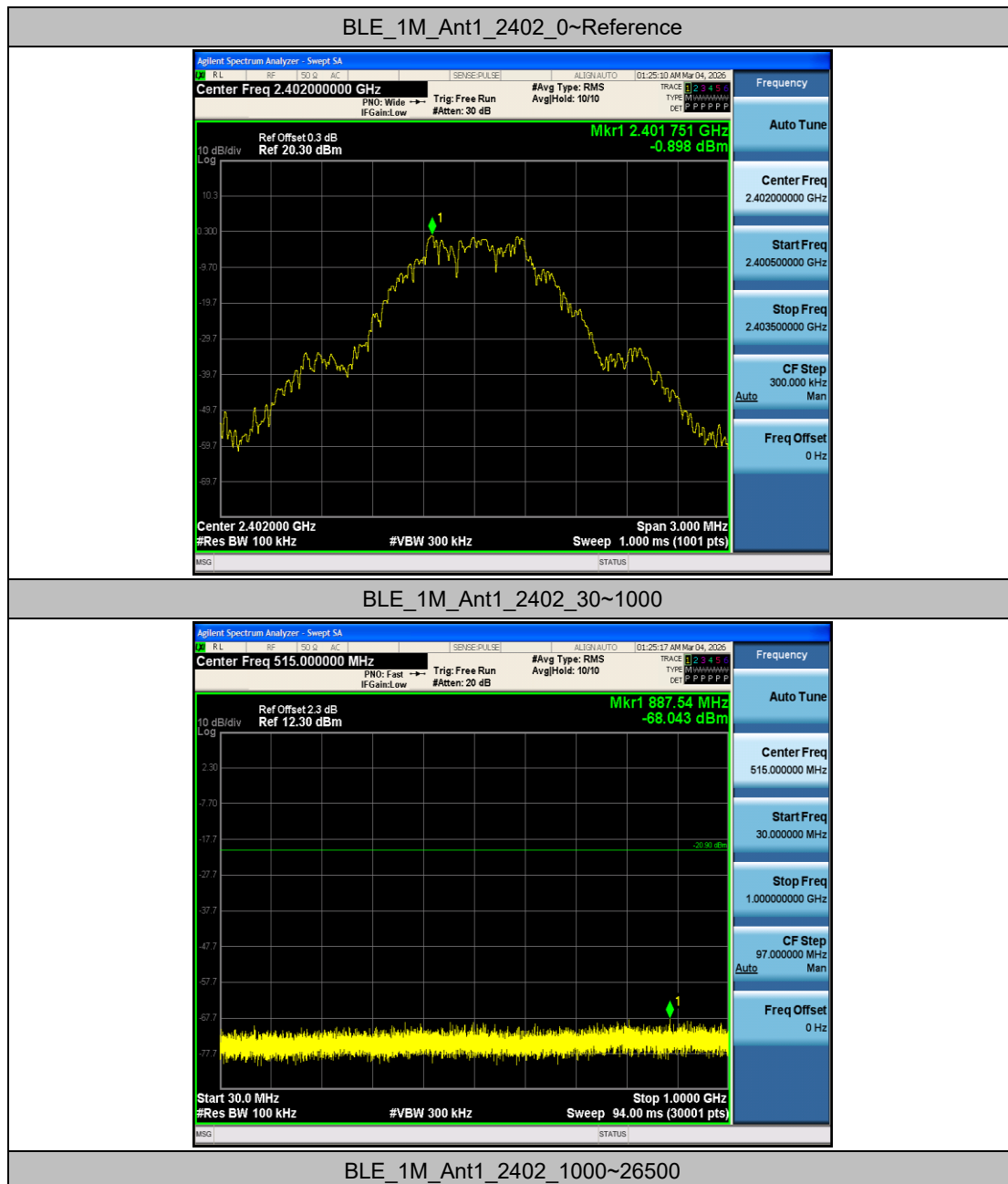


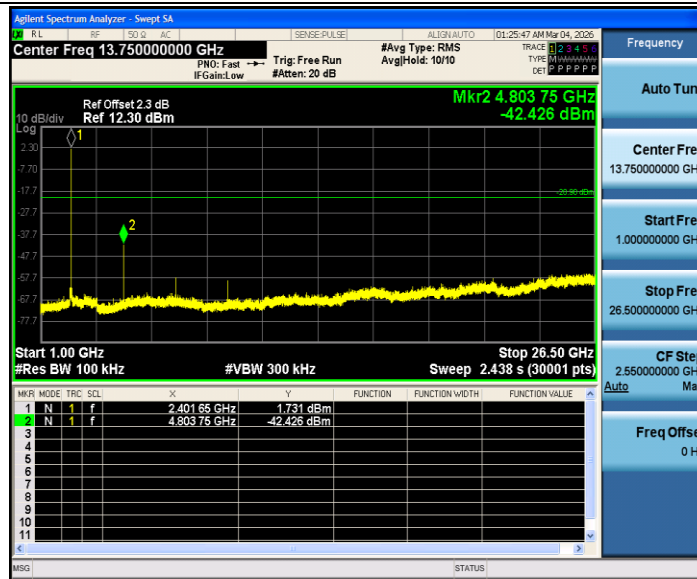
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.90	-0.90	---	PASS
			30~1000	-0.90	-68.04	≤-20.9	PASS
			1000~26500	-0.90	-42.43	≤-20.9	PASS
		2440	Reference	-2.16	-2.16	---	PASS
			30~1000	-2.16	-68.46	≤-22.16	PASS
			1000~26500	-2.16	-43.79	≤-22.16	PASS
		2480	Reference	-2.11	-2.11	---	PASS
			30~1000	-2.11	-67.98	≤-22.11	PASS
			1000~26500	-2.11	-43.95	≤-22.11	PASS

Test Graphs

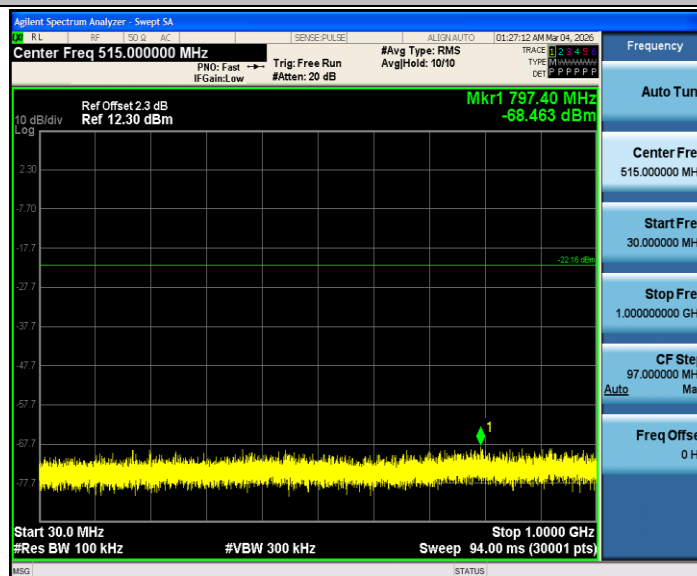




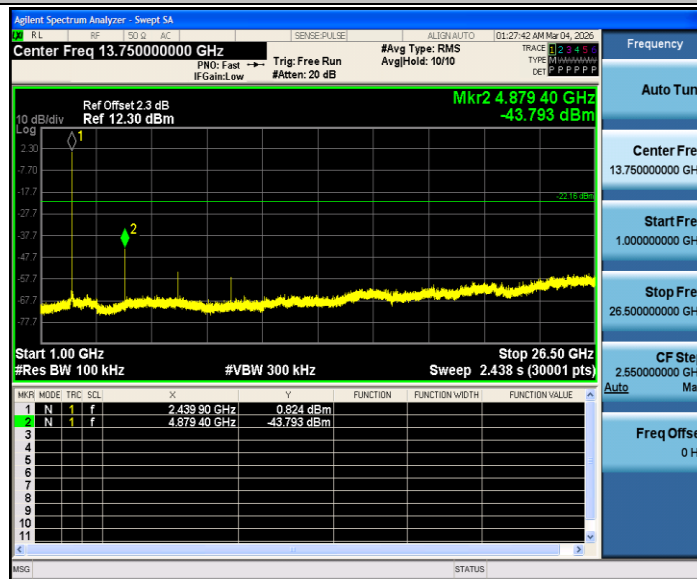
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



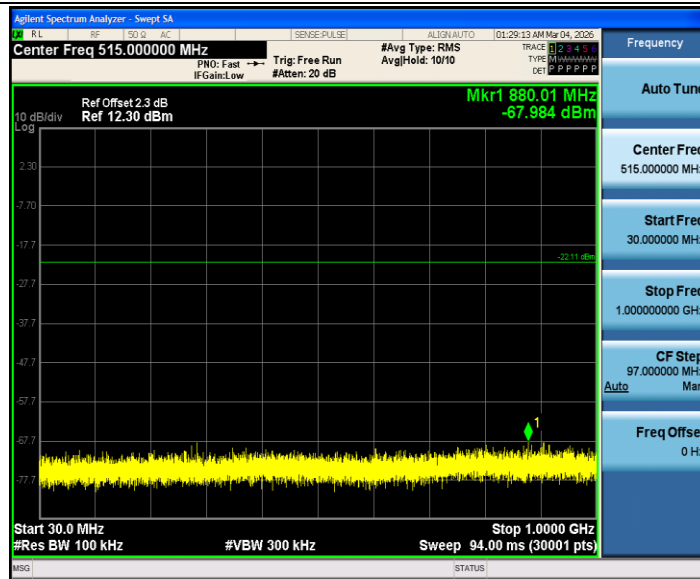
BLE_1M_Ant1_2440_1000~26500



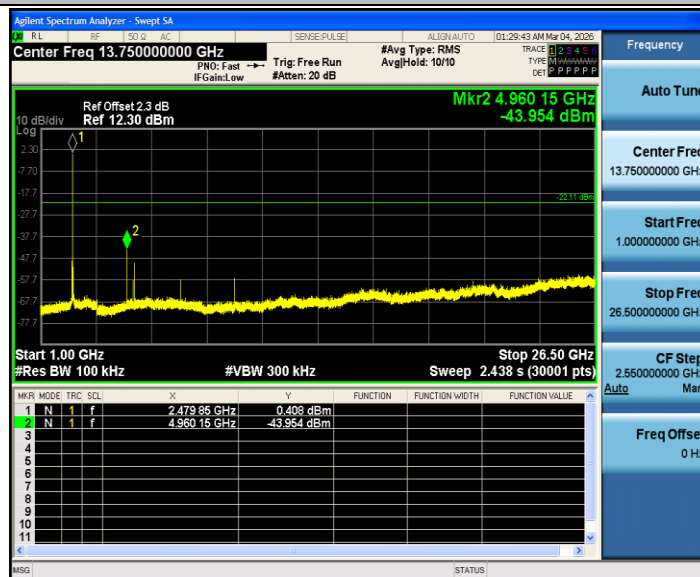
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

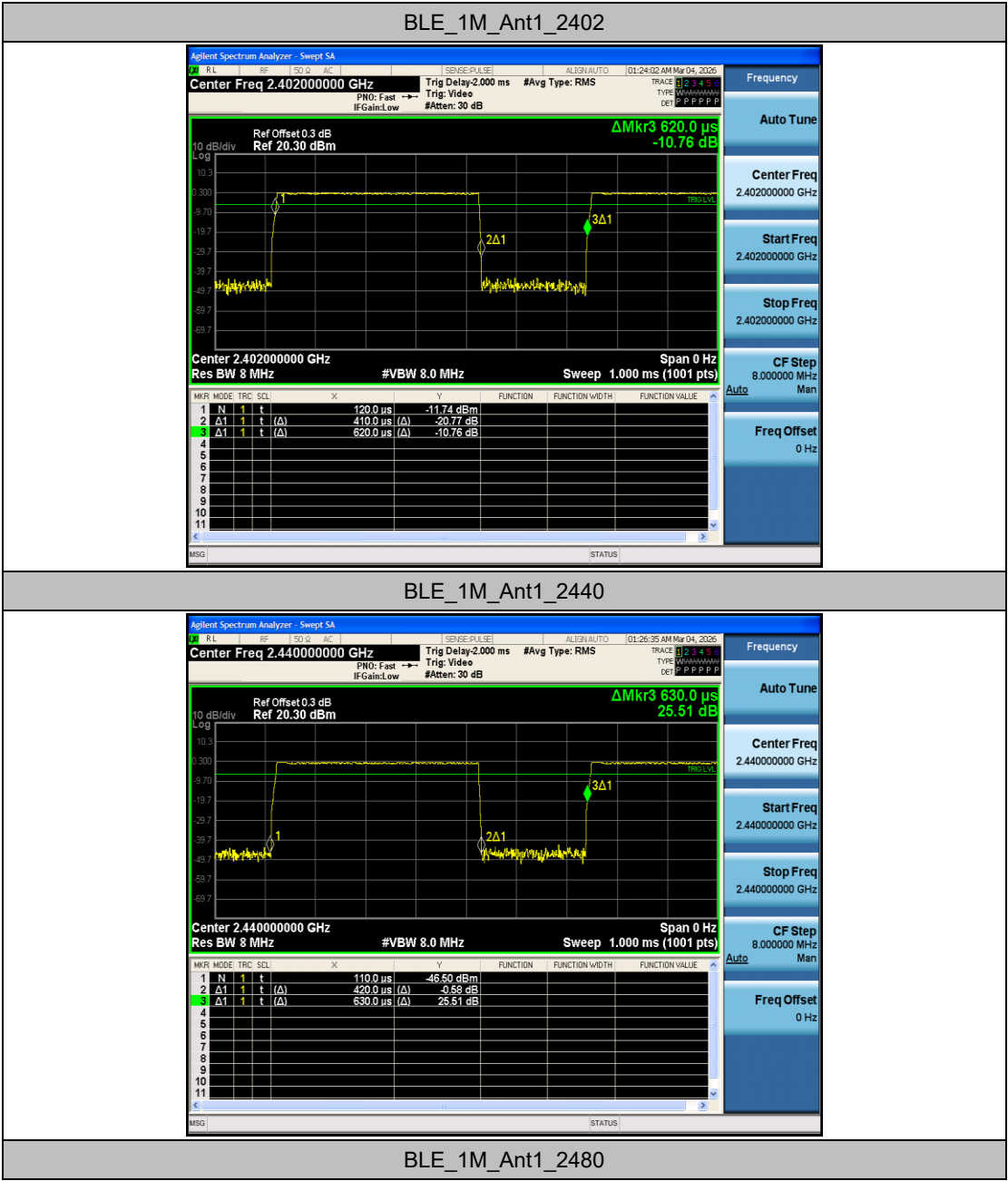


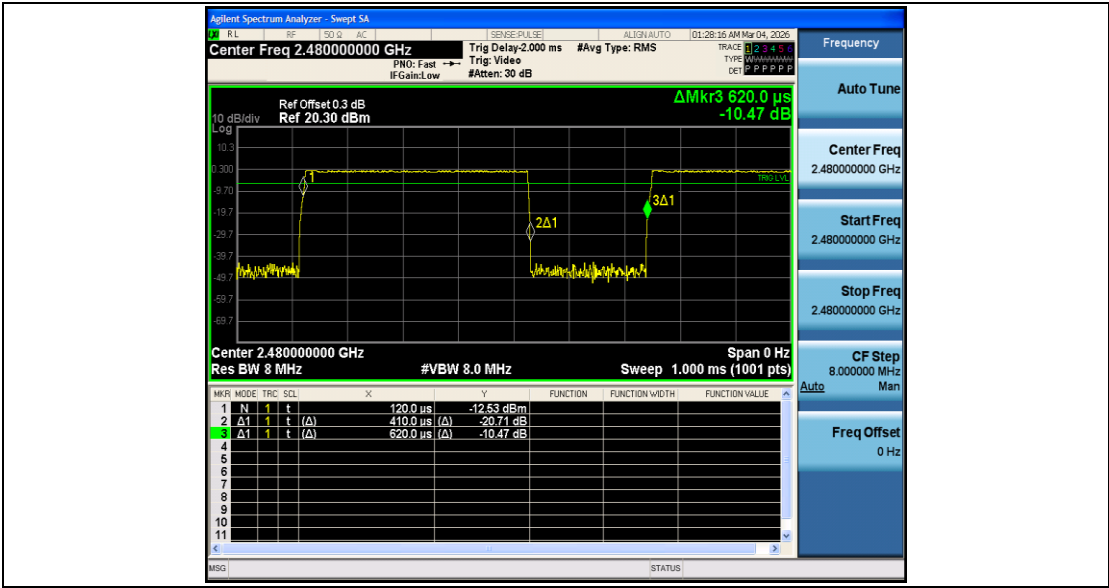
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.41	0.62	0.6613	66.13	1.80	---	---
		2440	0.42	0.63	0.6667	66.67	1.76	---	---
		2480	0.41	0.62	0.6613	66.13	1.80	---	---

Test Graphs





Appendix H: Emissions in Restricted Bands

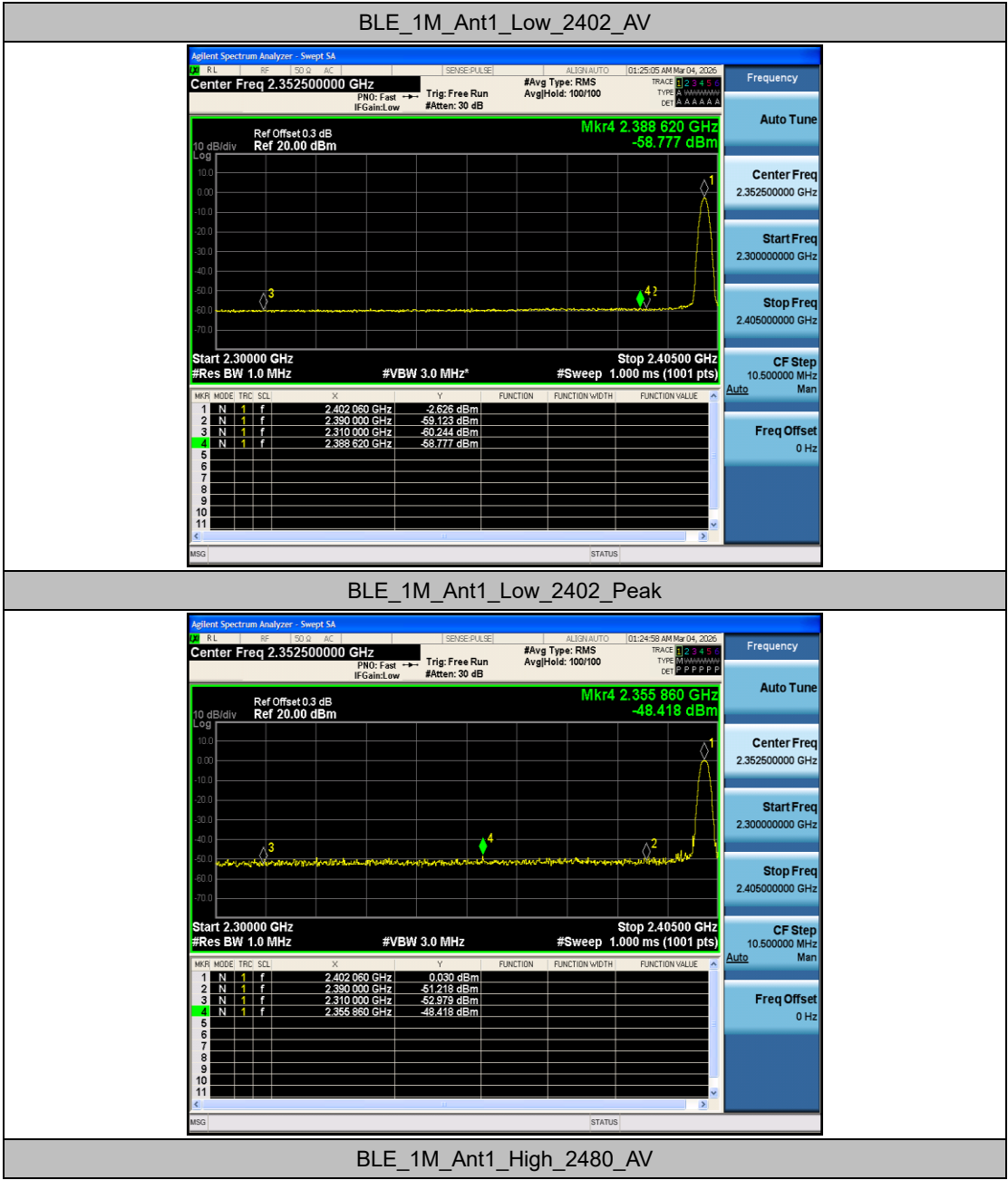
Test Result

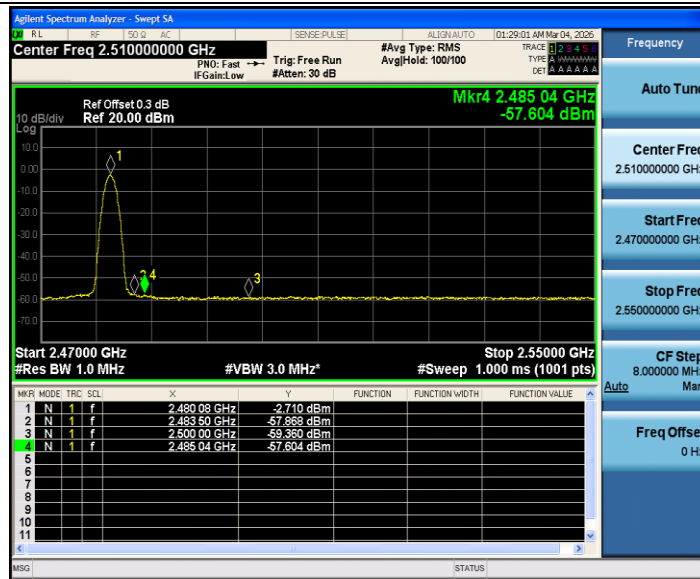
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-60.24	2.7	1.80	39.46	≤54	PASS
				AV	2388.620	-58.78	2.7	1.80	40.92	≤54	PASS
				AV	2390.000	-59.12	2.7	1.80	40.58	≤54	PASS
				Peak	2310.000	-52.98	2.7	0.00	44.92	≤74	PASS
				Peak	2355.860	-48.42	2.7	0.00	49.48	≤74	PASS
				Peak	2390.000	-51.22	2.7	0.00	46.68	≤74	PASS
		High	2480	AV	2483.500	-57.87	2.7	1.80	41.83	≤54	PASS
				AV	2485.040	-57.6	2.7	1.80	42.1	≤54	PASS
				AV	2500.000	-59.36	2.7	1.80	40.34	≤54	PASS
				Peak	2483.500	-49.88	2.7	0.00	48.02	≤74	PASS
				Peak	2485.120	-44.99	2.7	0.00	52.91	≤74	PASS
				Peak	2500.000	-52.67	2.7	0.00	45.23	≤74	PASS

Note:

1. 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_1M_Ant1_High_2480_Peak

