

Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Power Amplifiers

Test Model: T-B240DTB

Environmental Conditions

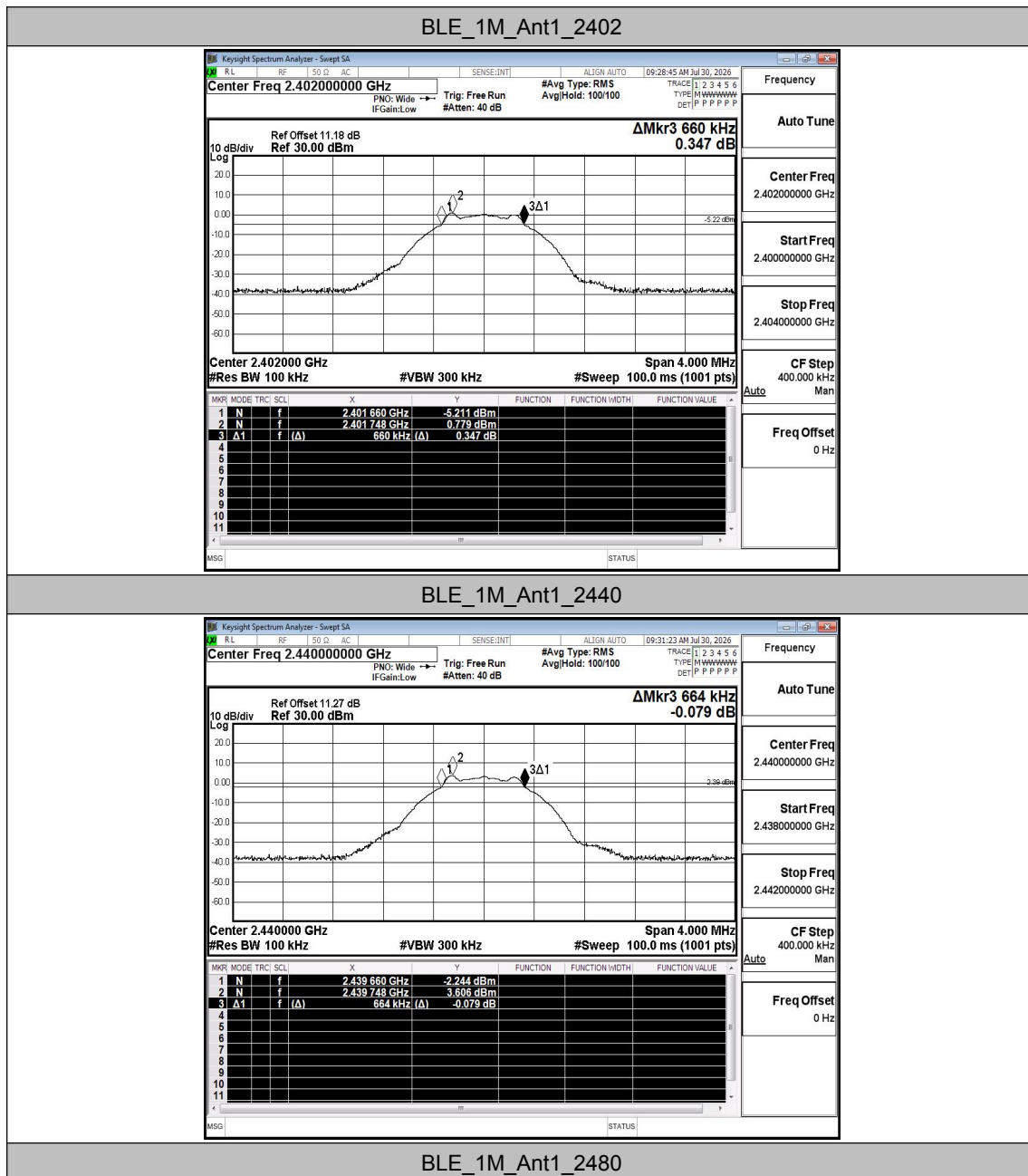
Temperature:	24.2°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

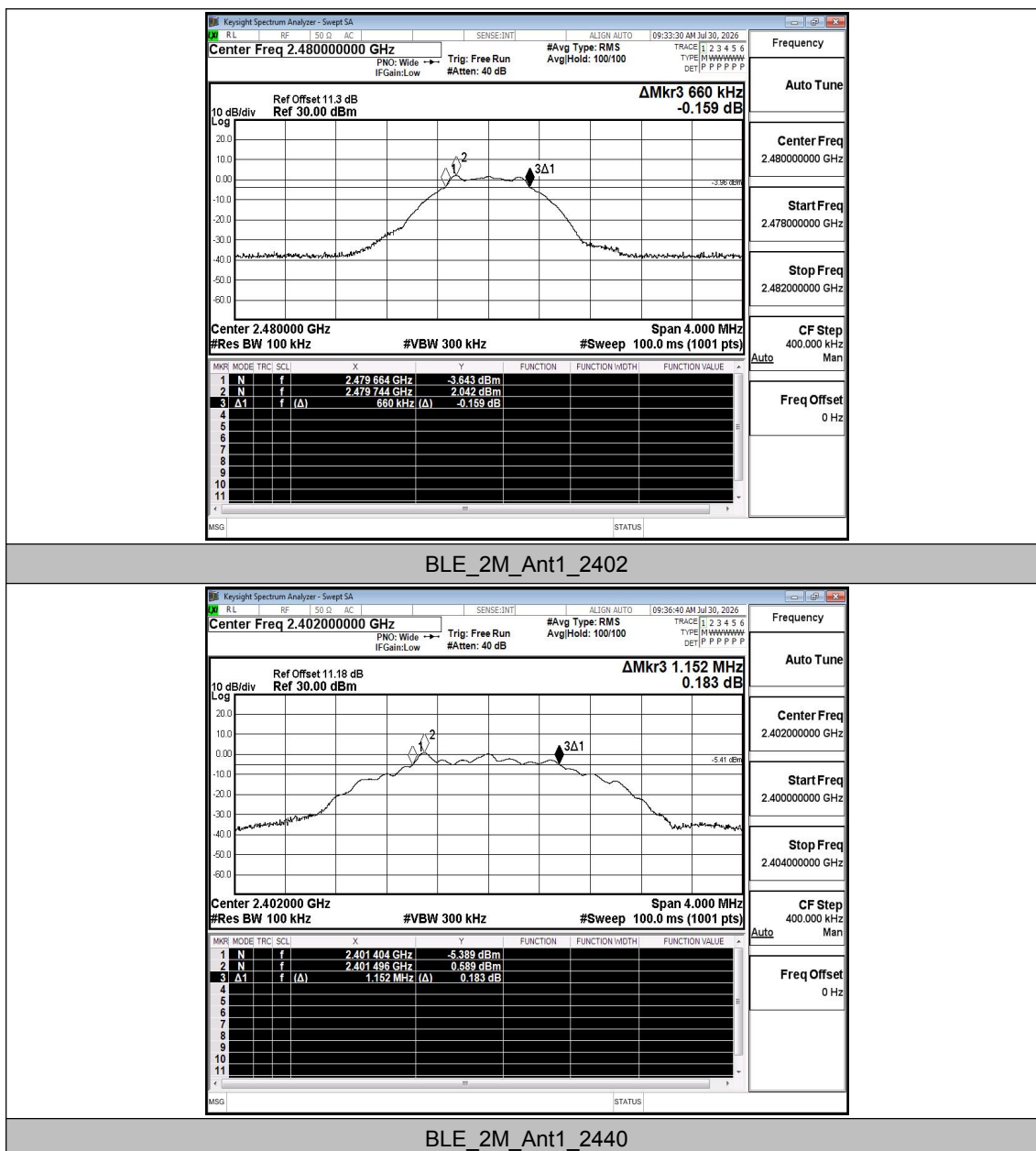
B.1 DTS Bandwidth

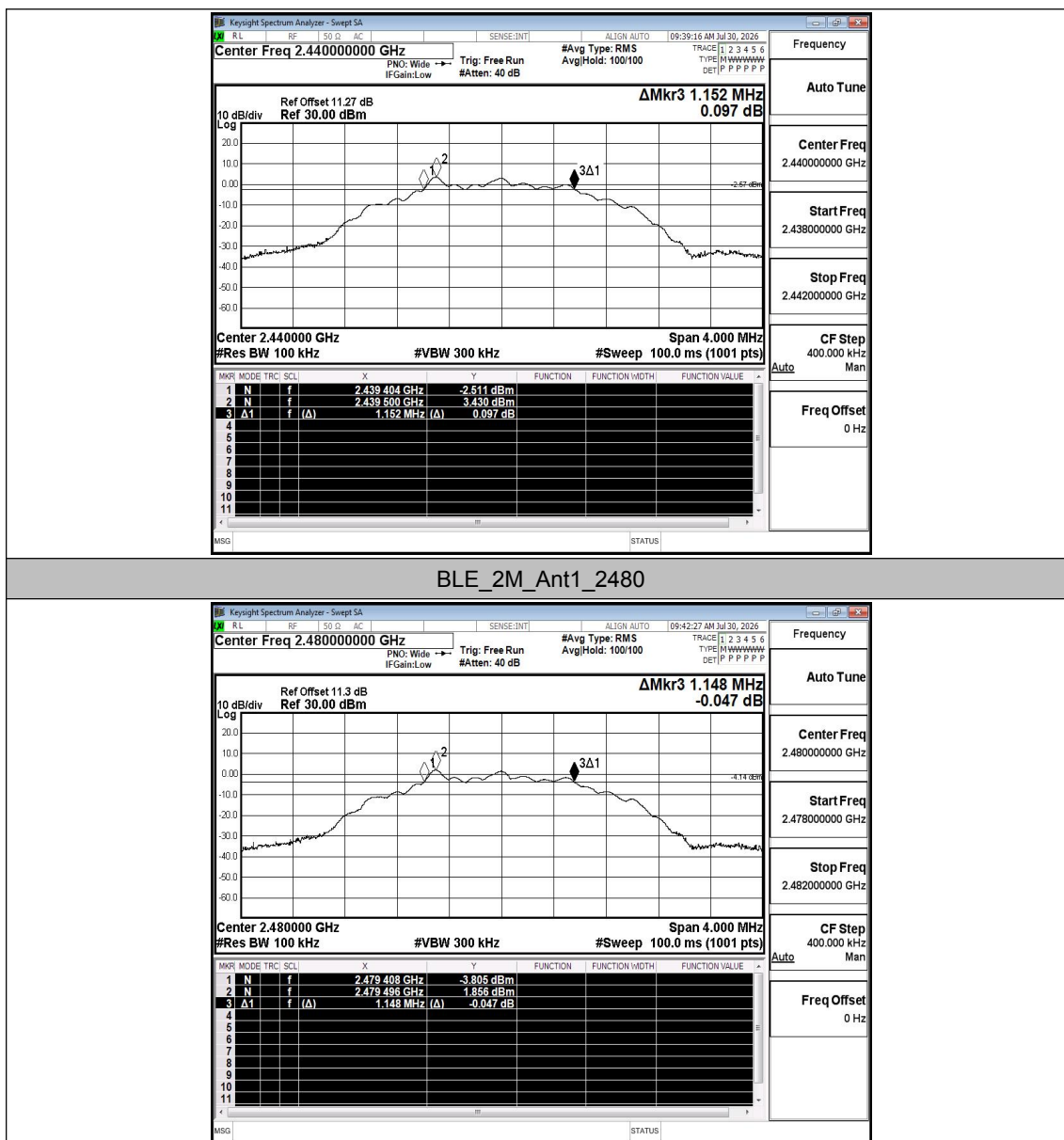
Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.660	2402.320	0.5	PASS
		2440	0.664	2439.660	2440.324	0.5	PASS
		2480	0.660	2479.664	2480.324	0.5	PASS
BLE_2M	Ant1	2402	1.152	2401.404	2402.556	0.5	PASS
		2440	1.152	2439.404	2440.556	0.5	PASS
		2480	1.148	2479.408	2480.556	0.5	PASS

Test Graphs





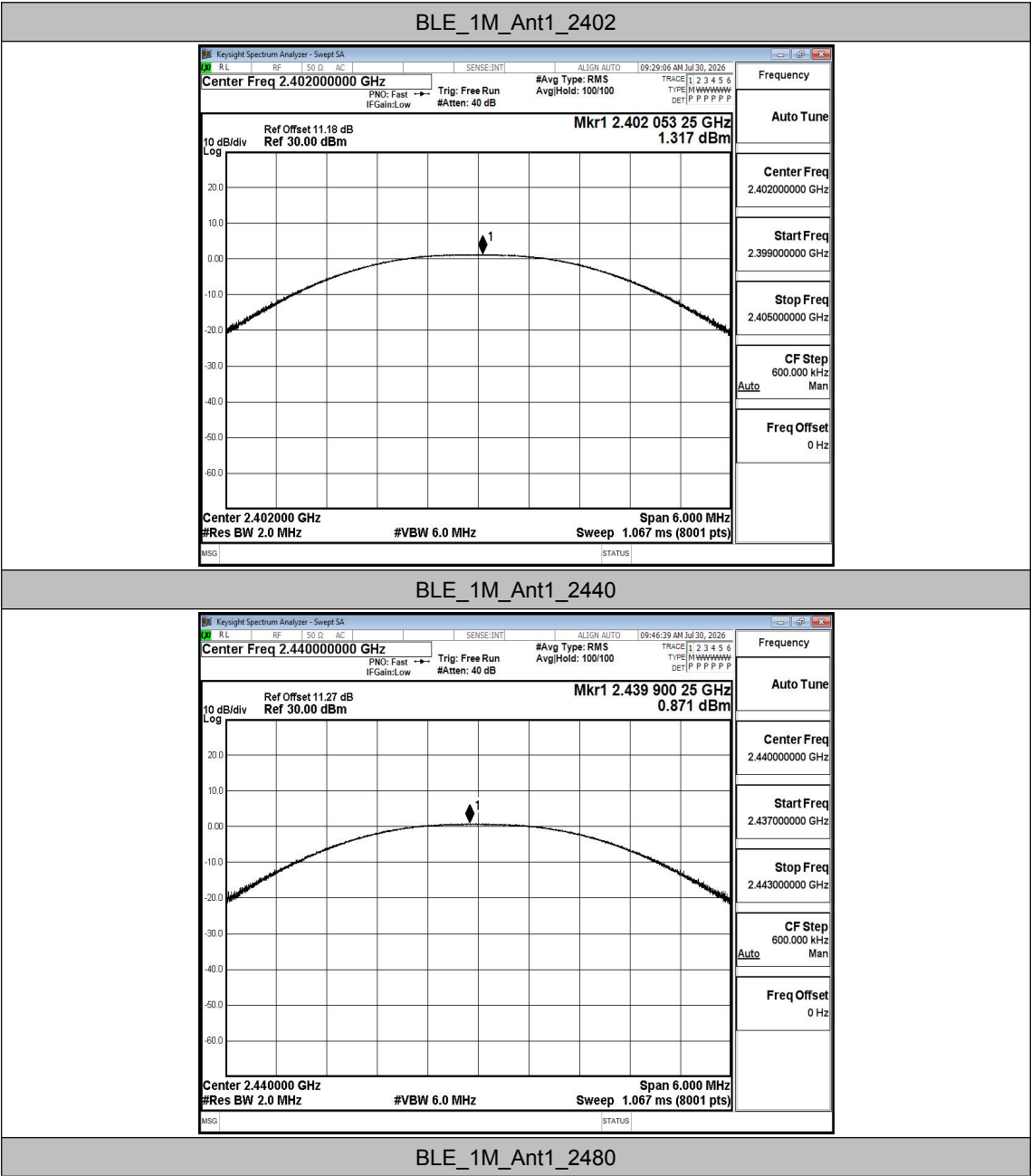


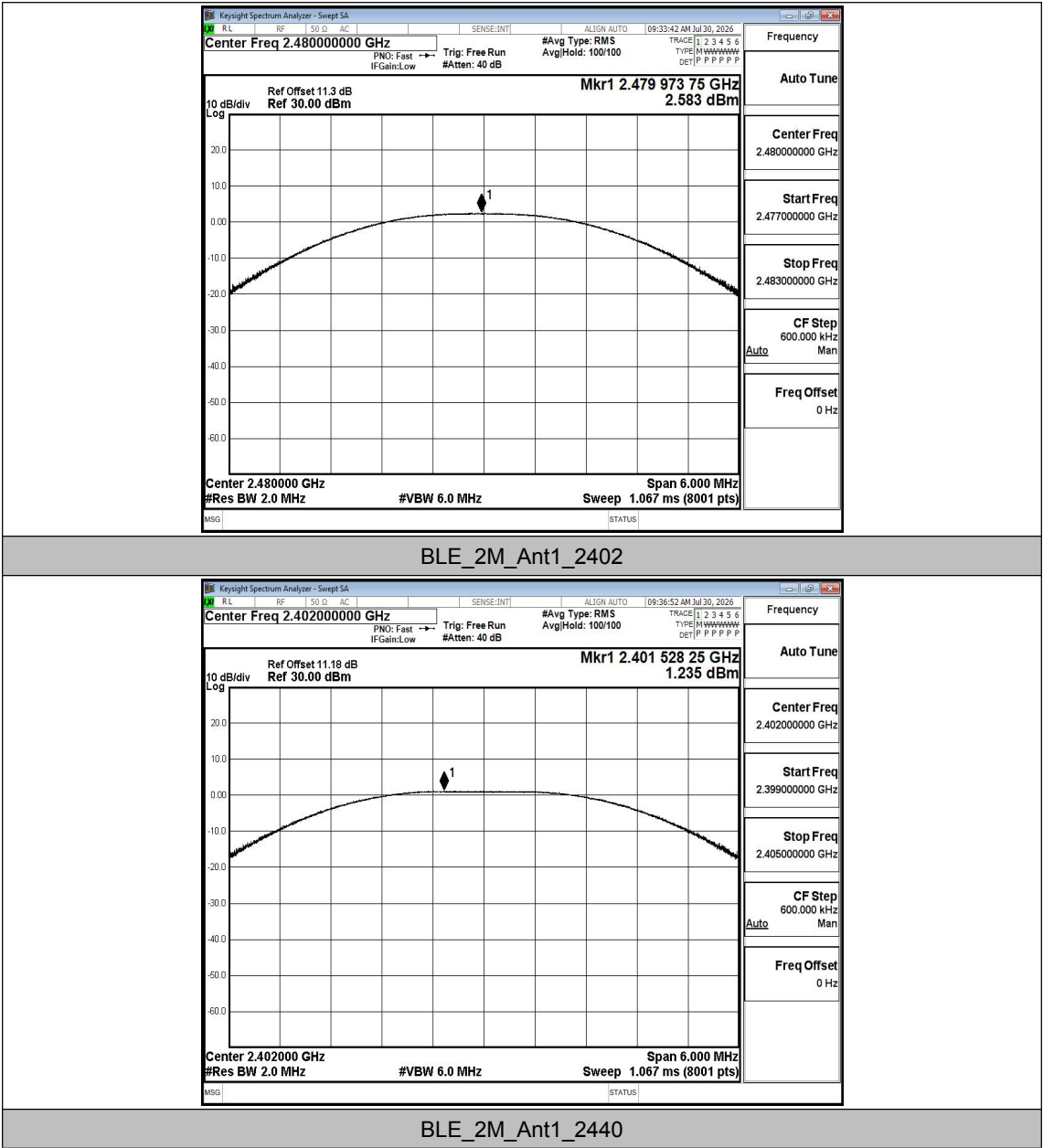
B.2 Maximum Peak conducted output power

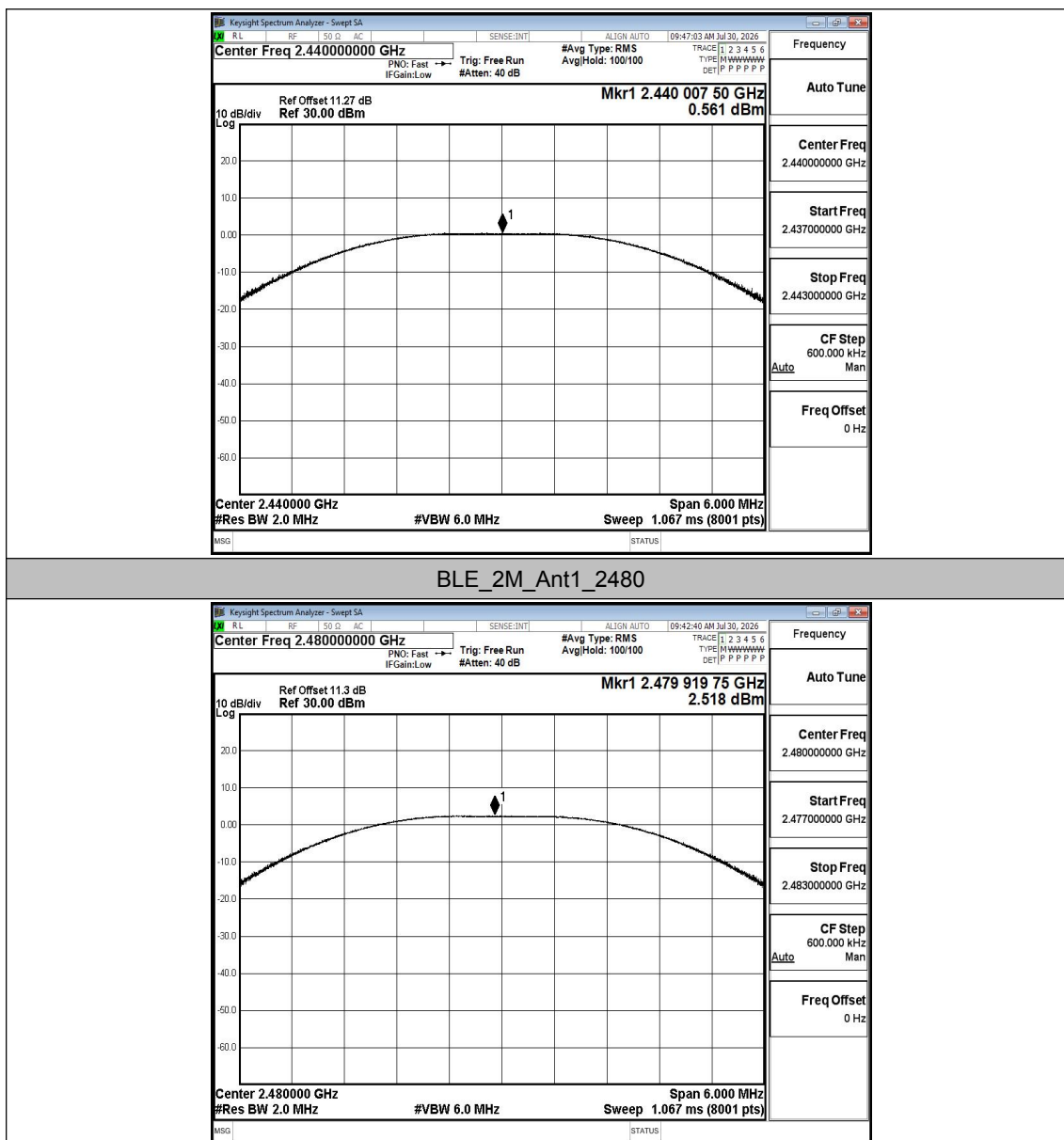
Test Result Peak

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.32	≤30	PASS
		2440	0.87	≤30	PASS
		2480	2.58	≤30	PASS
BLE_2M	Ant1	2402	1.24	≤30	PASS
		2440	0.56	≤30	PASS
		2480	2.52	≤30	PASS

Test Graphs Peak





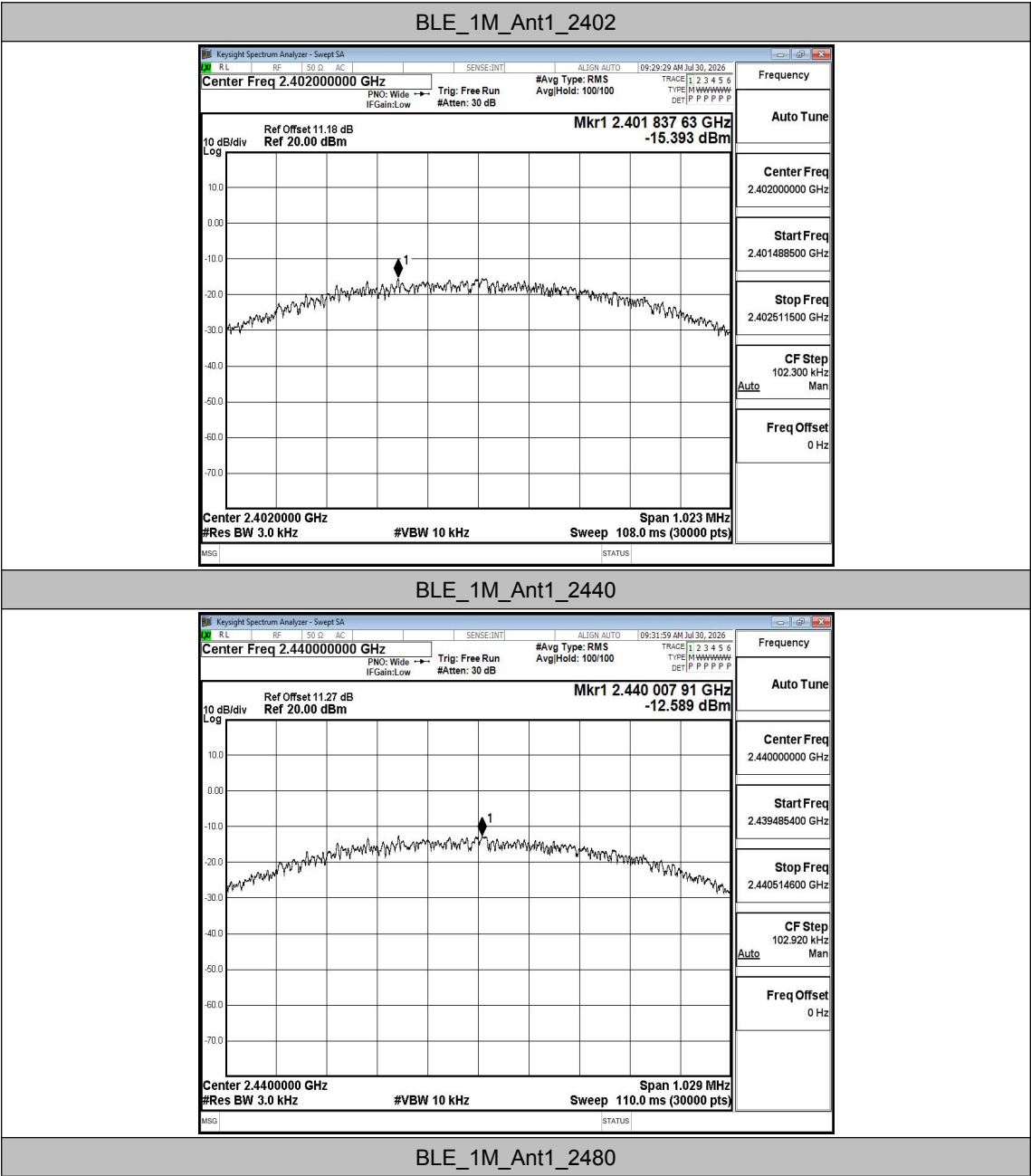


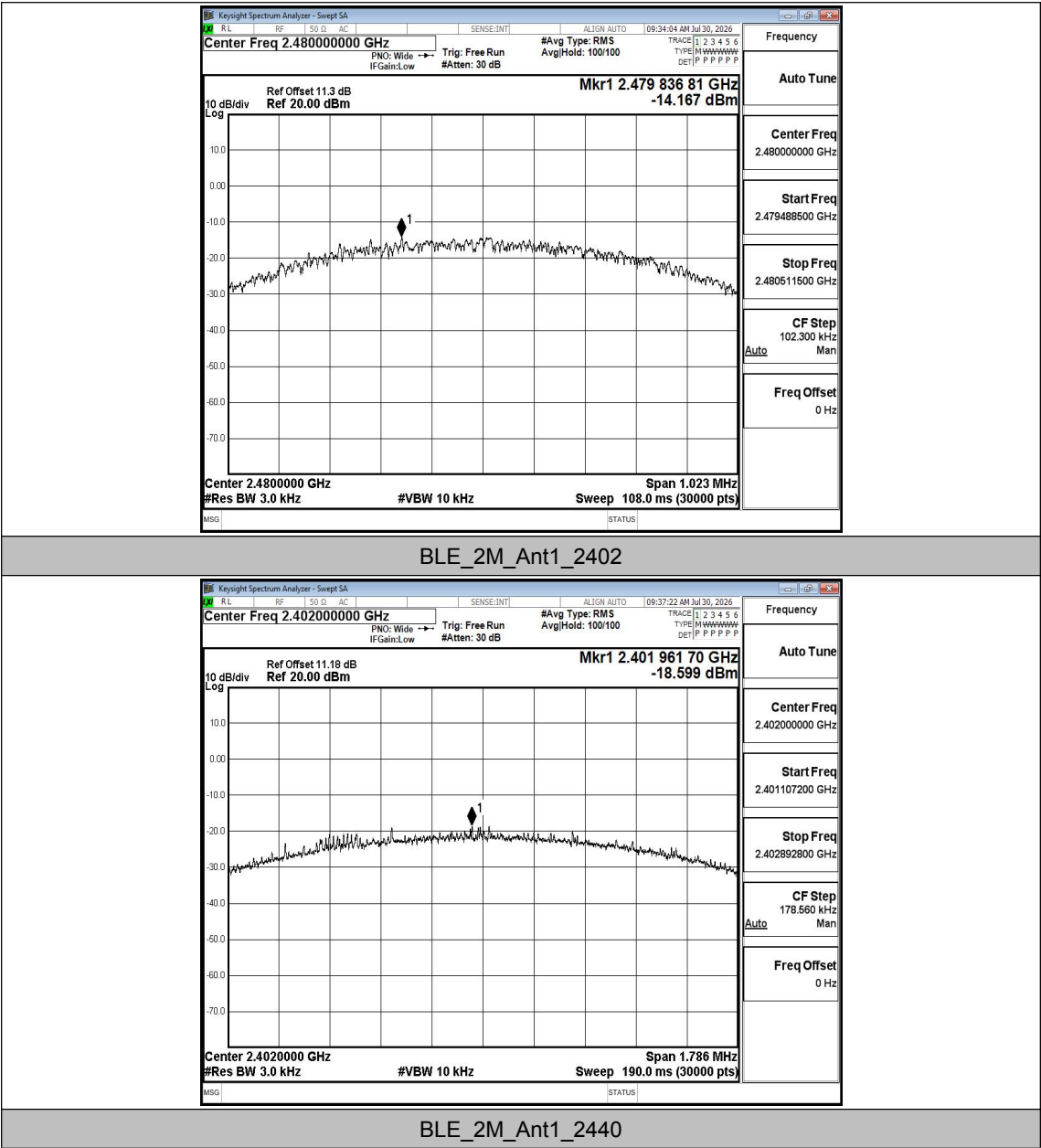
B.3 Maximum power spectral density

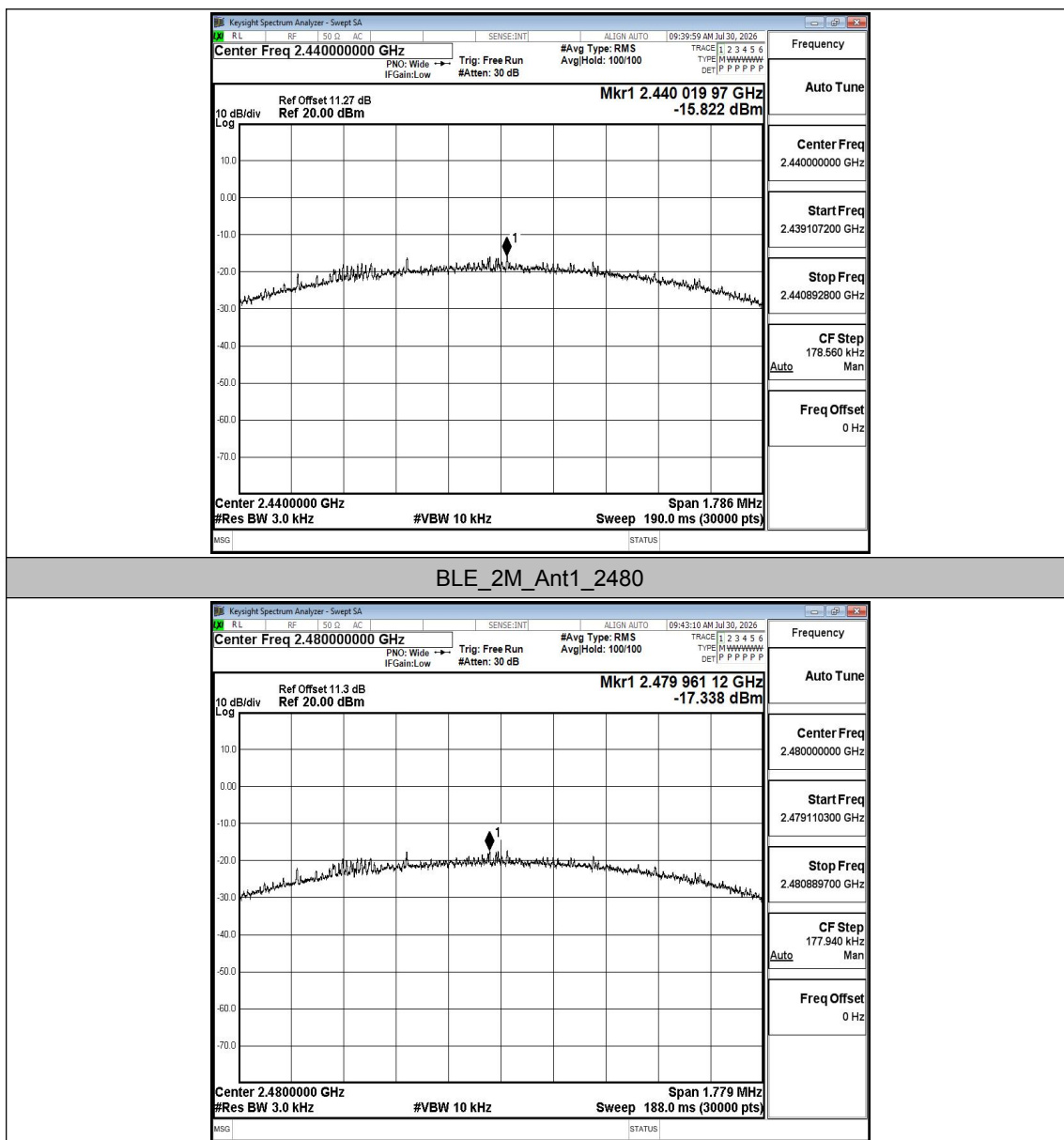
Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.39	≤8.00	PASS
		2440	-12.59	≤8.00	PASS
		2480	-14.17	≤8.00	PASS
BLE_2M	Ant1	2402	-18.60	≤8.00	PASS
		2440	-15.82	≤8.00	PASS
		2480	-17.34	≤8.00	PASS

Test Graphs





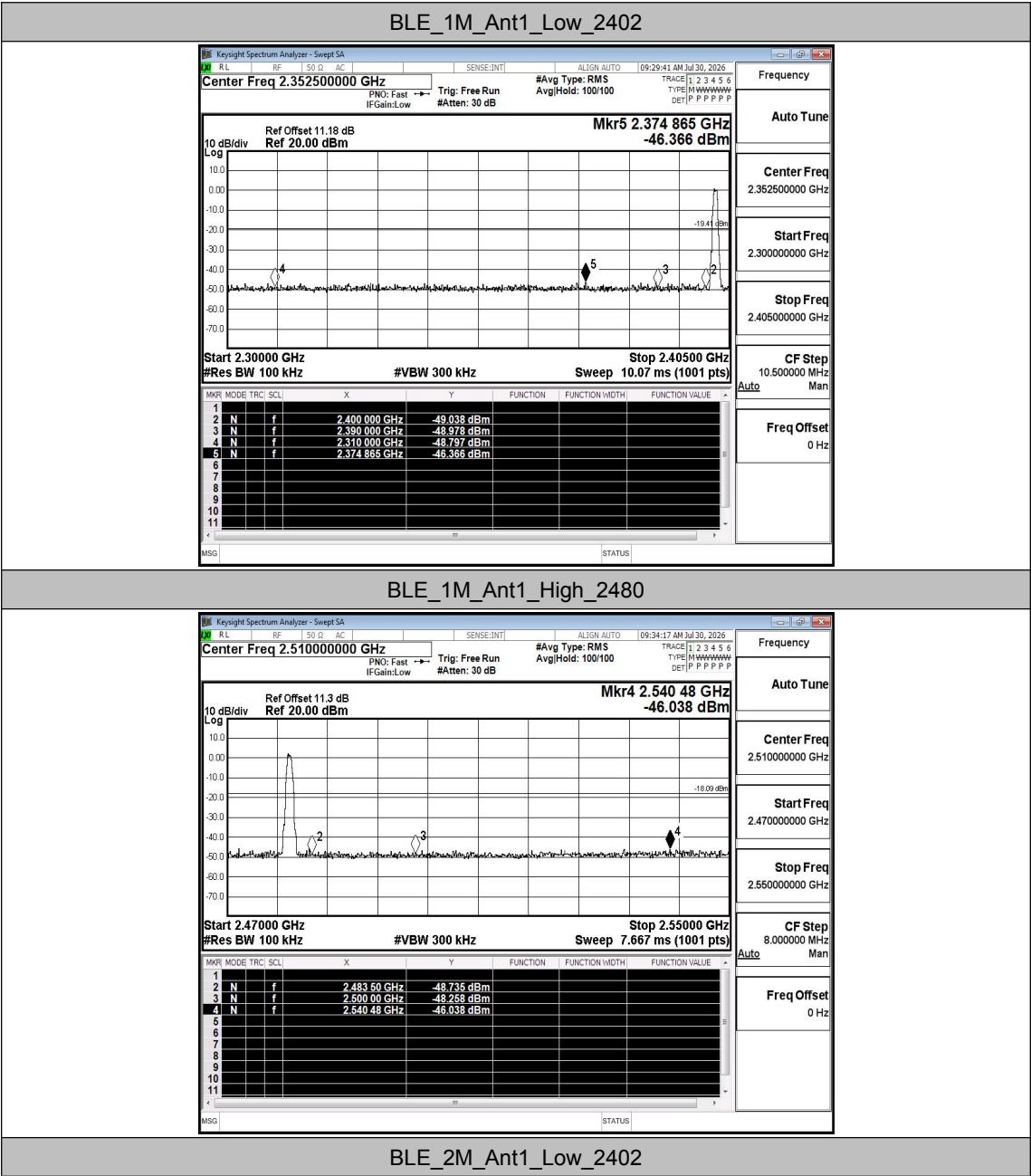


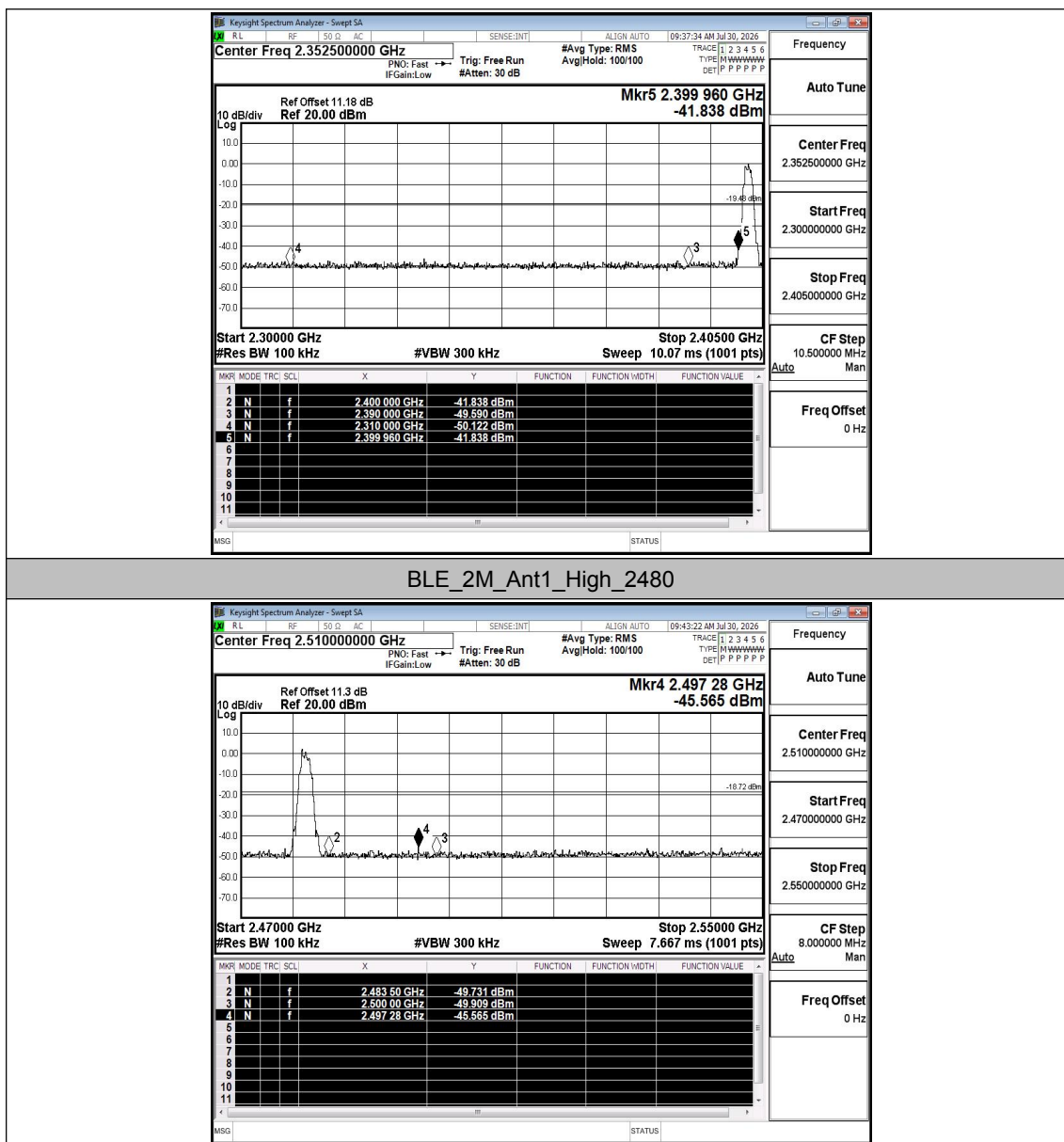
B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.59	-46.37	≤-19.41	PASS
		High	2480	1.91	-46.04	≤-18.09	PASS
BLE_2M	Ant1	Low	2402	0.52	-41.84	≤-19.48	PASS
		High	2480	1.28	-45.57	≤-18.72	PASS

Test Graphs



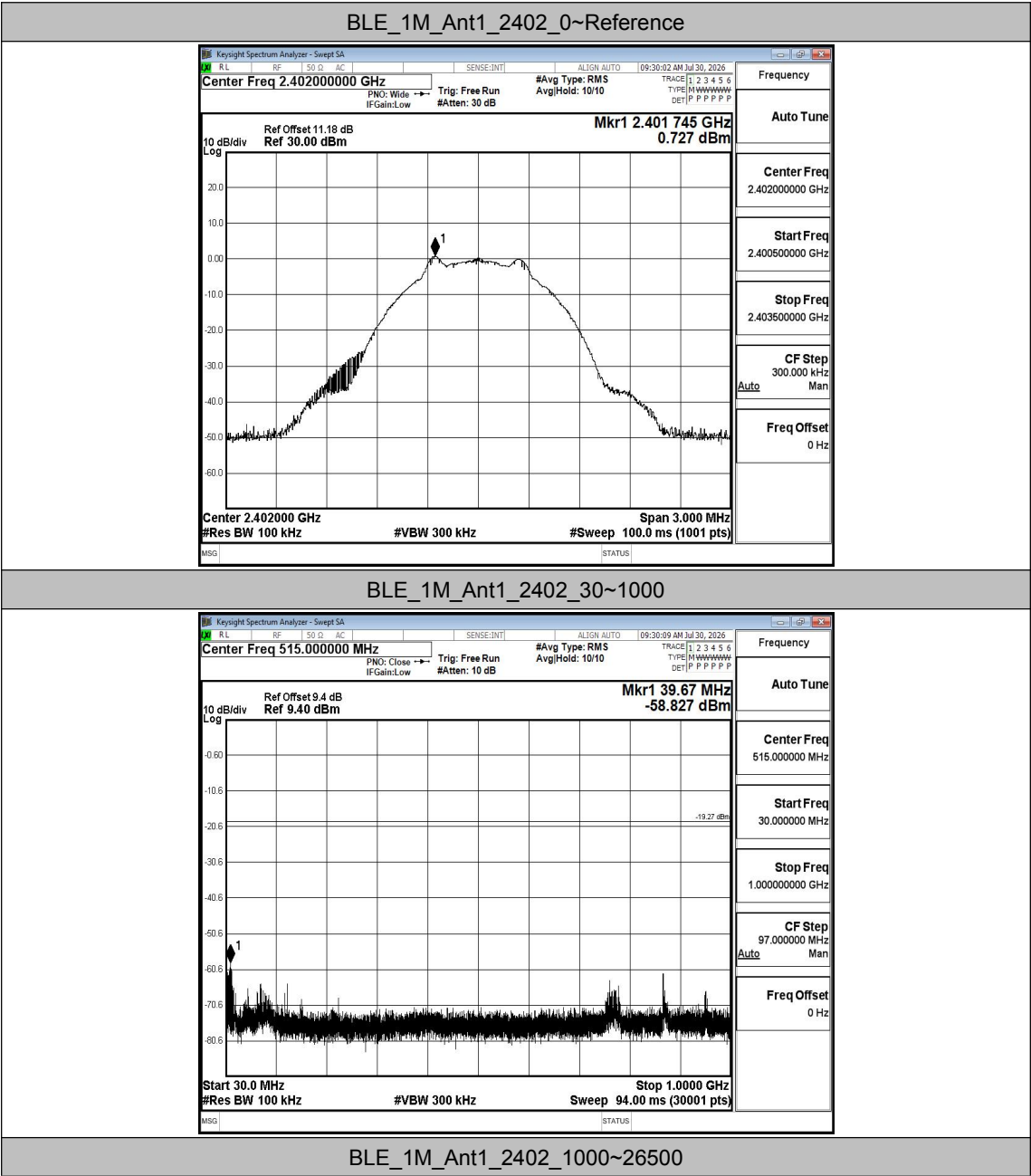


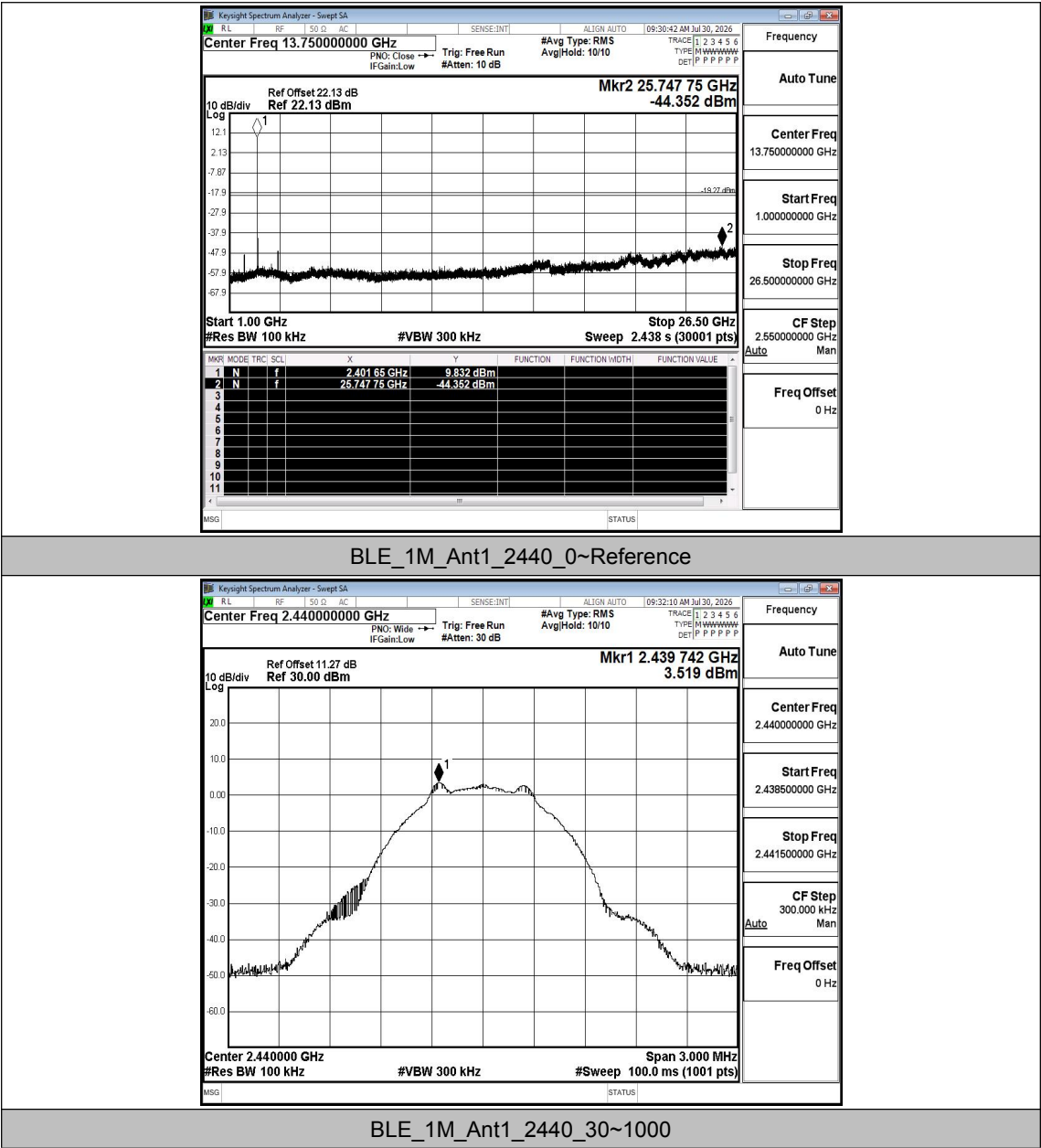
B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.73	0.73	---	PASS
			30~1000	0.73	-58.83	≤-19.27	PASS
			1000~26500	0.73	-44.35	≤-19.27	PASS
		2440	Reference	3.52	3.52	---	PASS
			30~1000	3.52	-59.07	≤-16.48	PASS
			1000~26500	3.52	-44.69	≤-16.48	PASS
		2480	Reference	1.99	1.99	---	PASS
			30~1000	1.99	-61.66	≤-18.01	PASS
			1000~26500	1.99	-44.71	≤-18.01	PASS
BLE_2M	Ant1	2402	Reference	0.56	0.56	---	PASS
			30~1000	0.56	-58.81	≤-19.44	PASS
			1000~26500	0.56	-44.59	≤-19.44	PASS
		2440	Reference	3.33	3.33	---	PASS
			30~1000	3.33	-57.52	≤-16.67	PASS
			1000~26500	3.33	-36.28	≤-16.67	PASS
		2480	Reference	1.81	1.81	---	PASS
			30~1000	1.81	-59.35	≤-18.19	PASS
			1000~26500	1.81	-44.73	≤-18.19	PASS

Test Graphs





BLE_1M_Ant1_2440_30~1000

