

Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Commercial Audio 120W 70V Mixer Amp with Bluetooth,

Commercial Audio 240W 70V Mixer Amp with Bluetooth

Test Model: 45705

Environmental Conditions

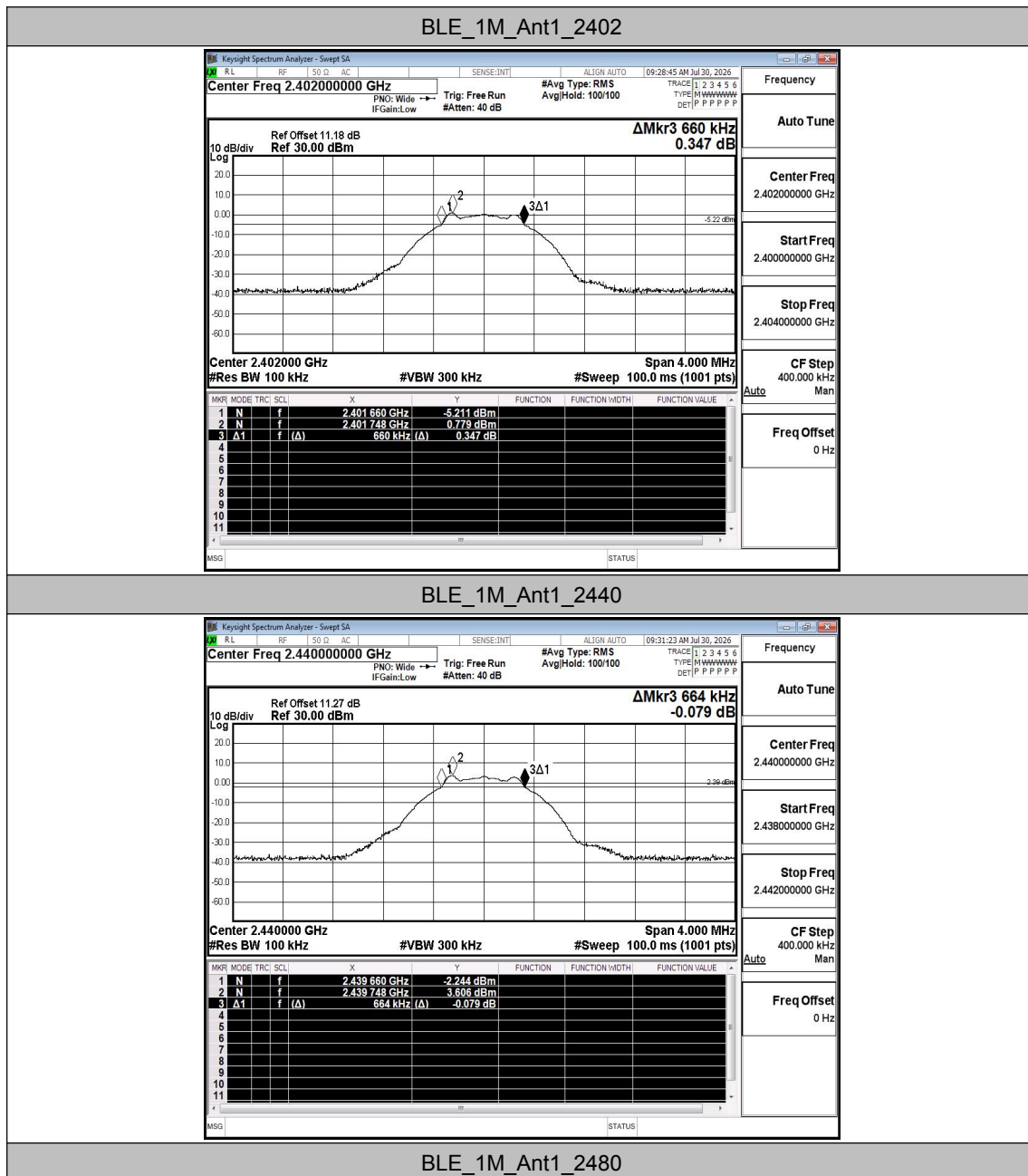
Temperature:	24.2°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

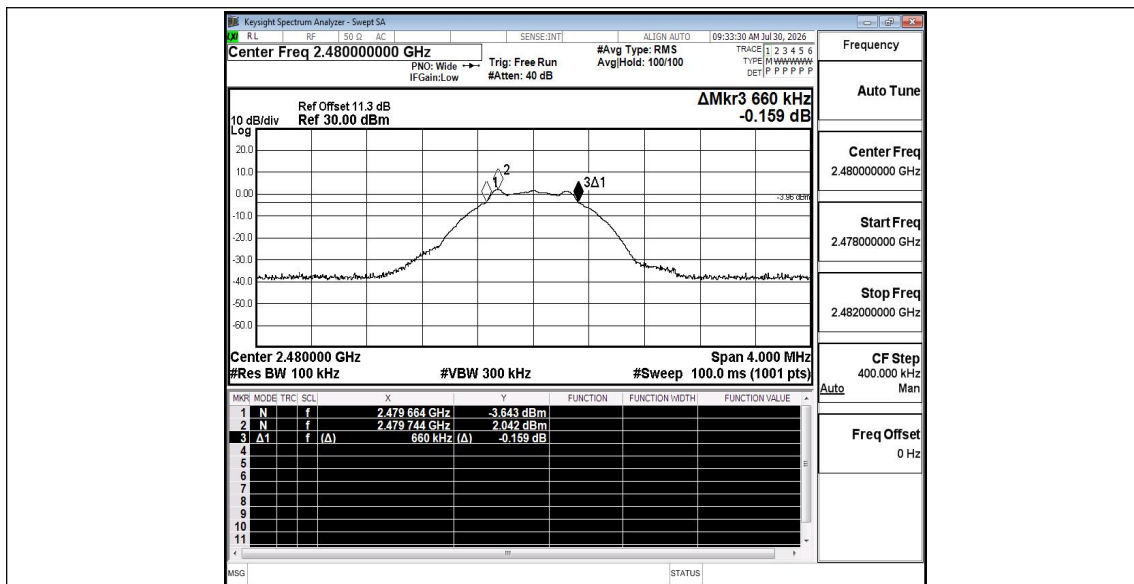
B.1 DTS Bandwidth

Test Result

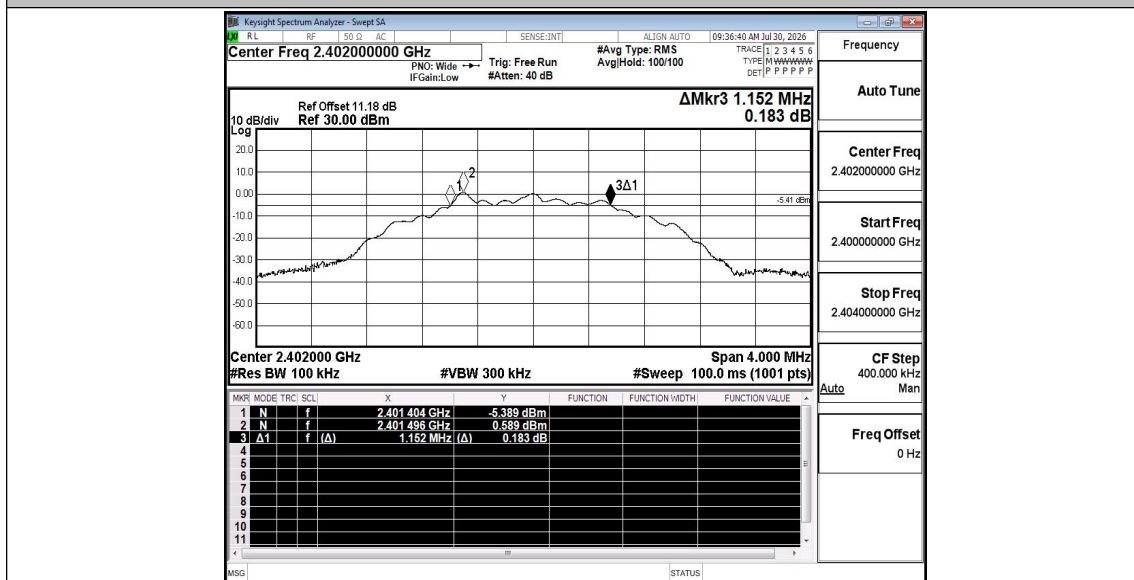
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.660	2402.320	0.5	PASS
		2440	0.664	2439.660	2440.324	0.5	PASS
		2480	0.660	2479.664	2480.324	0.5	PASS
BLE_2M	Ant1	2402	1.152	2401.404	2402.556	0.5	PASS
		2440	1.152	2439.404	2440.556	0.5	PASS
		2480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

Test Graphs

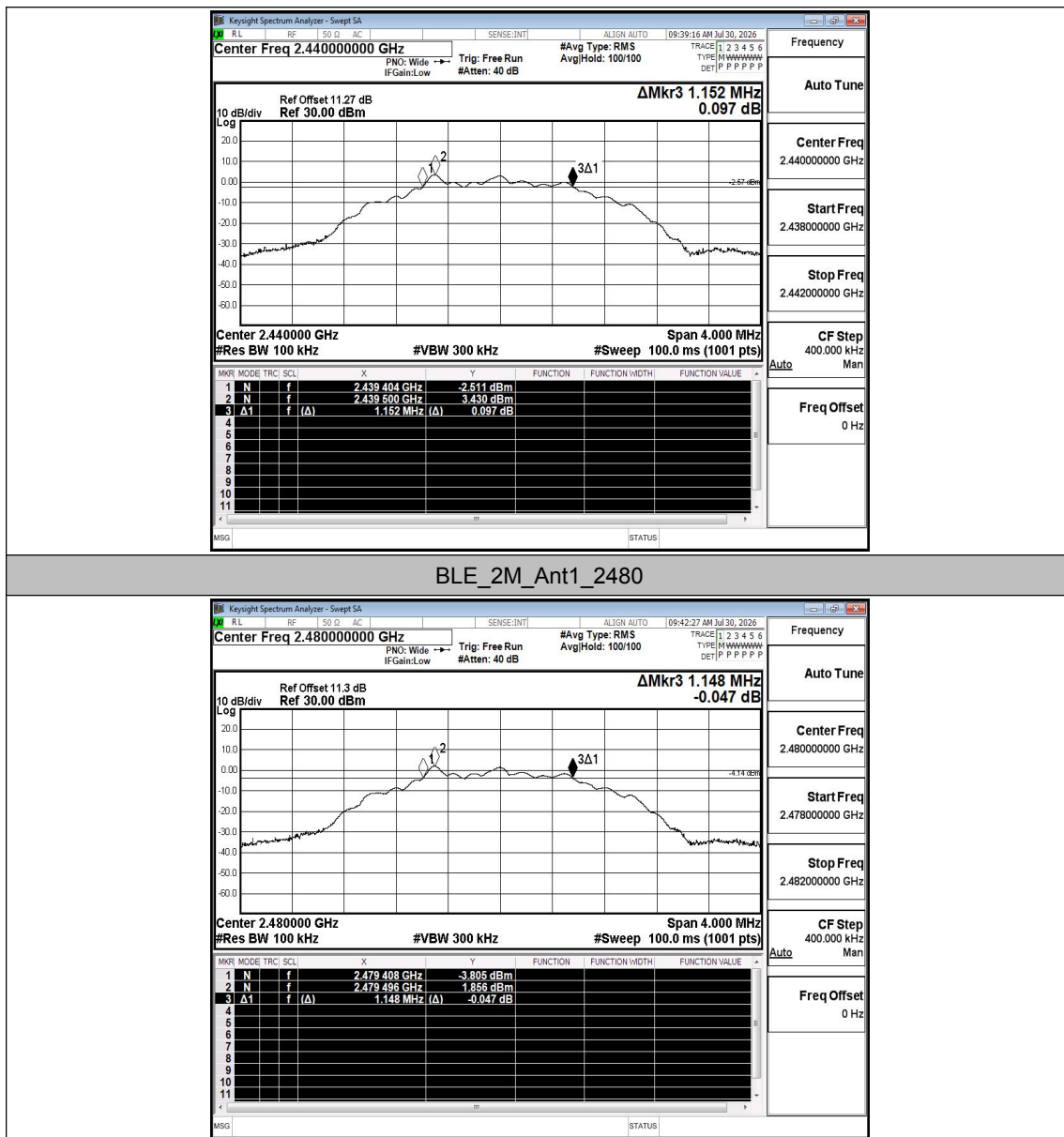




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

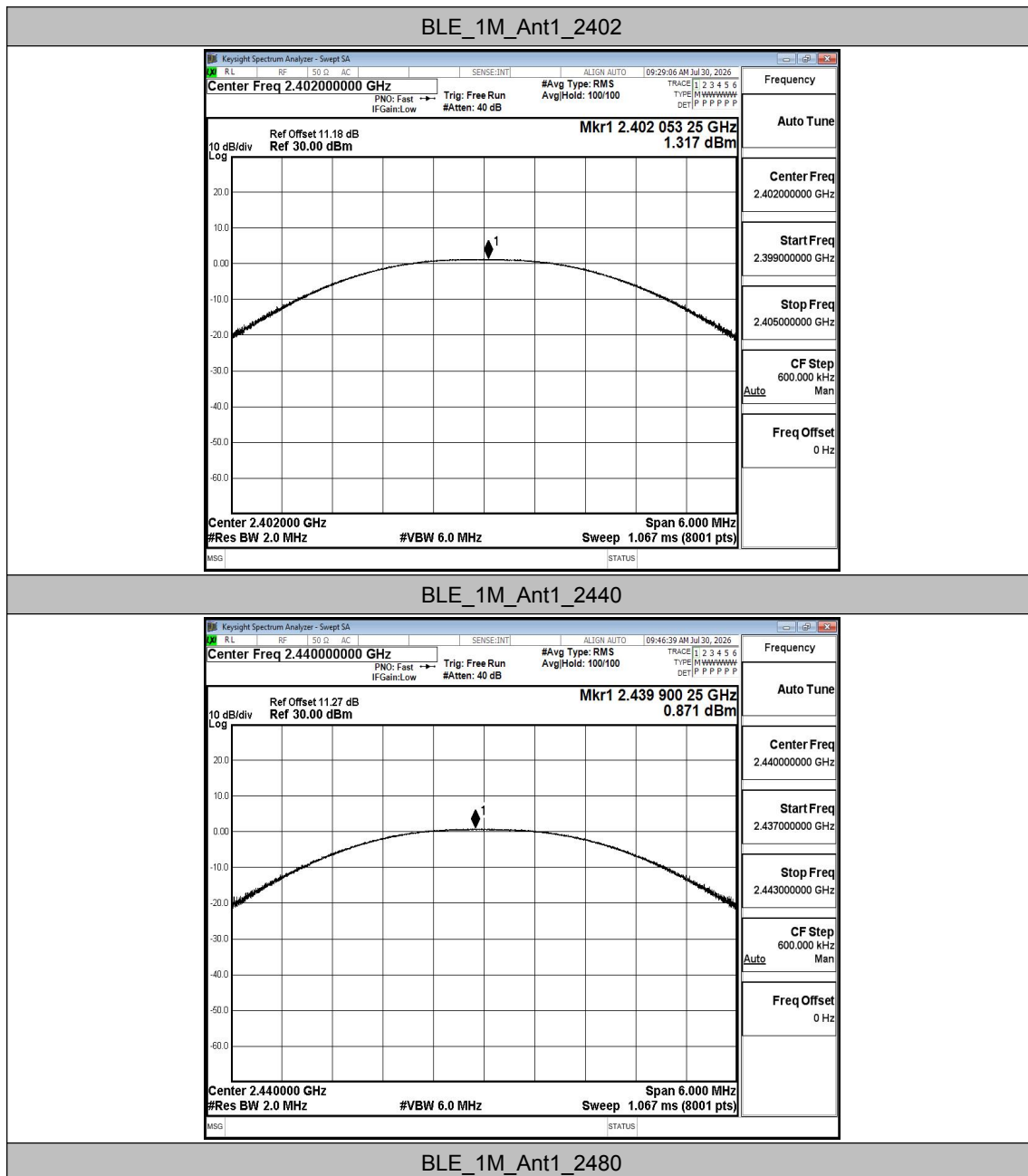


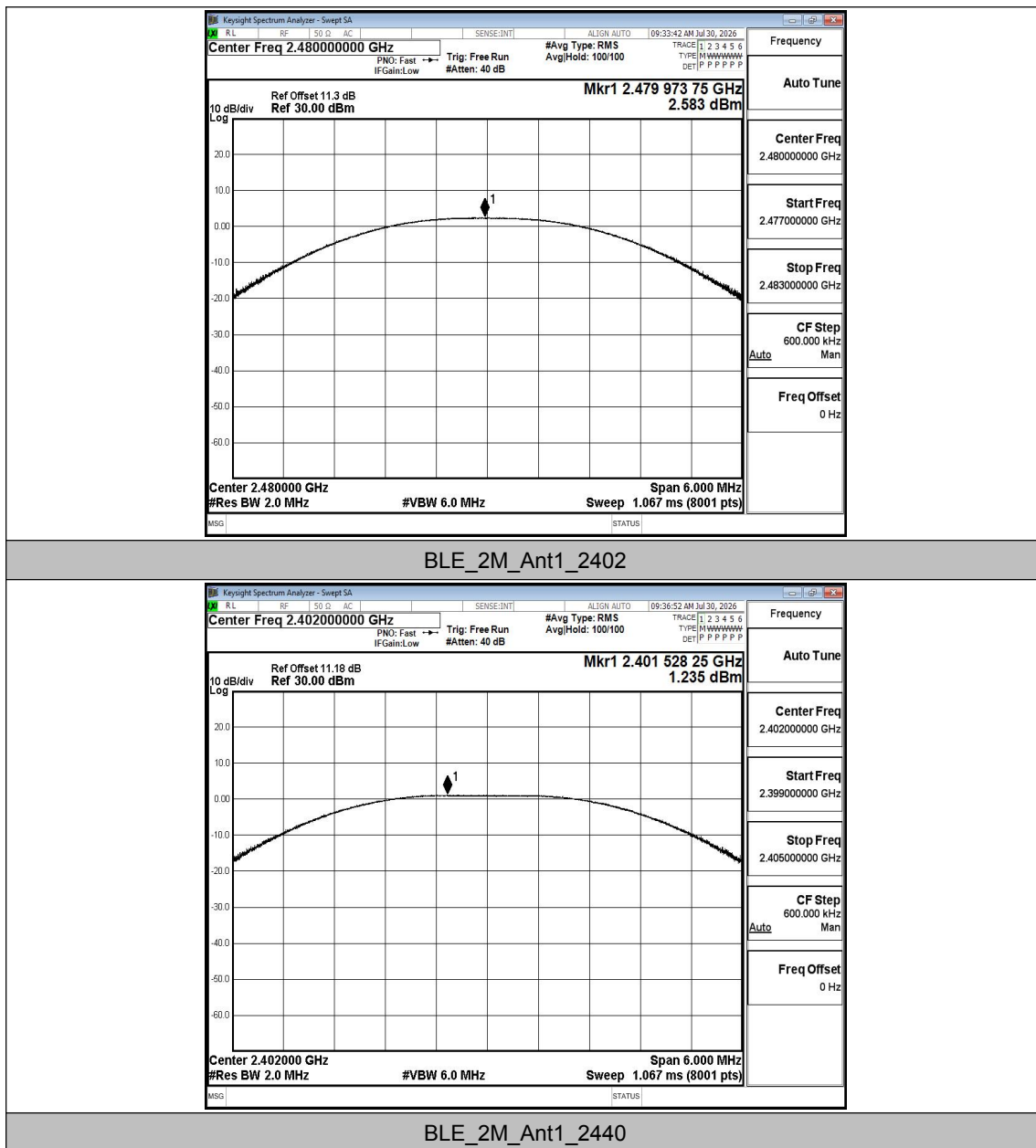
B.2 Maximum Peak conducted output power

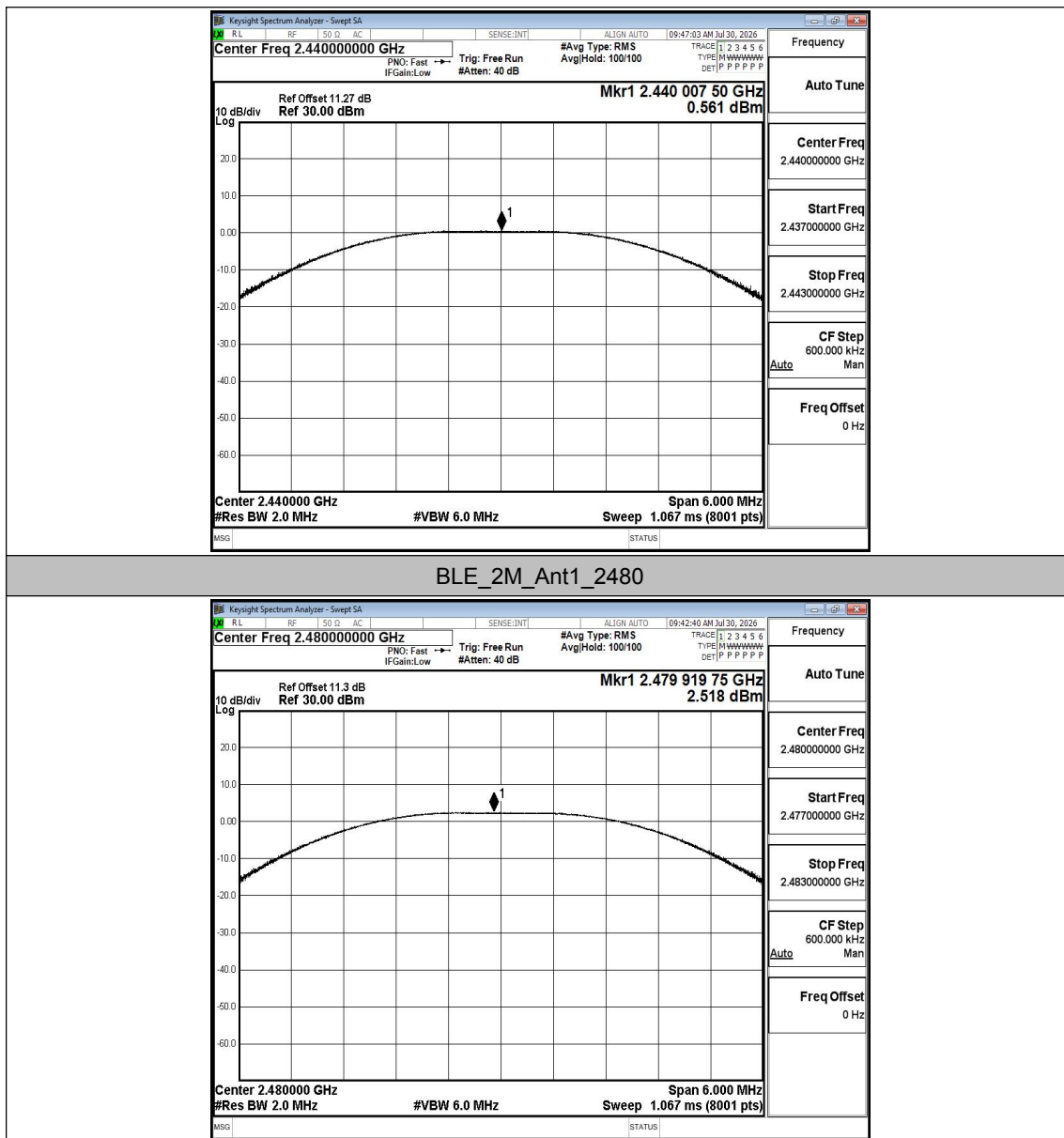
Test Result Peak

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





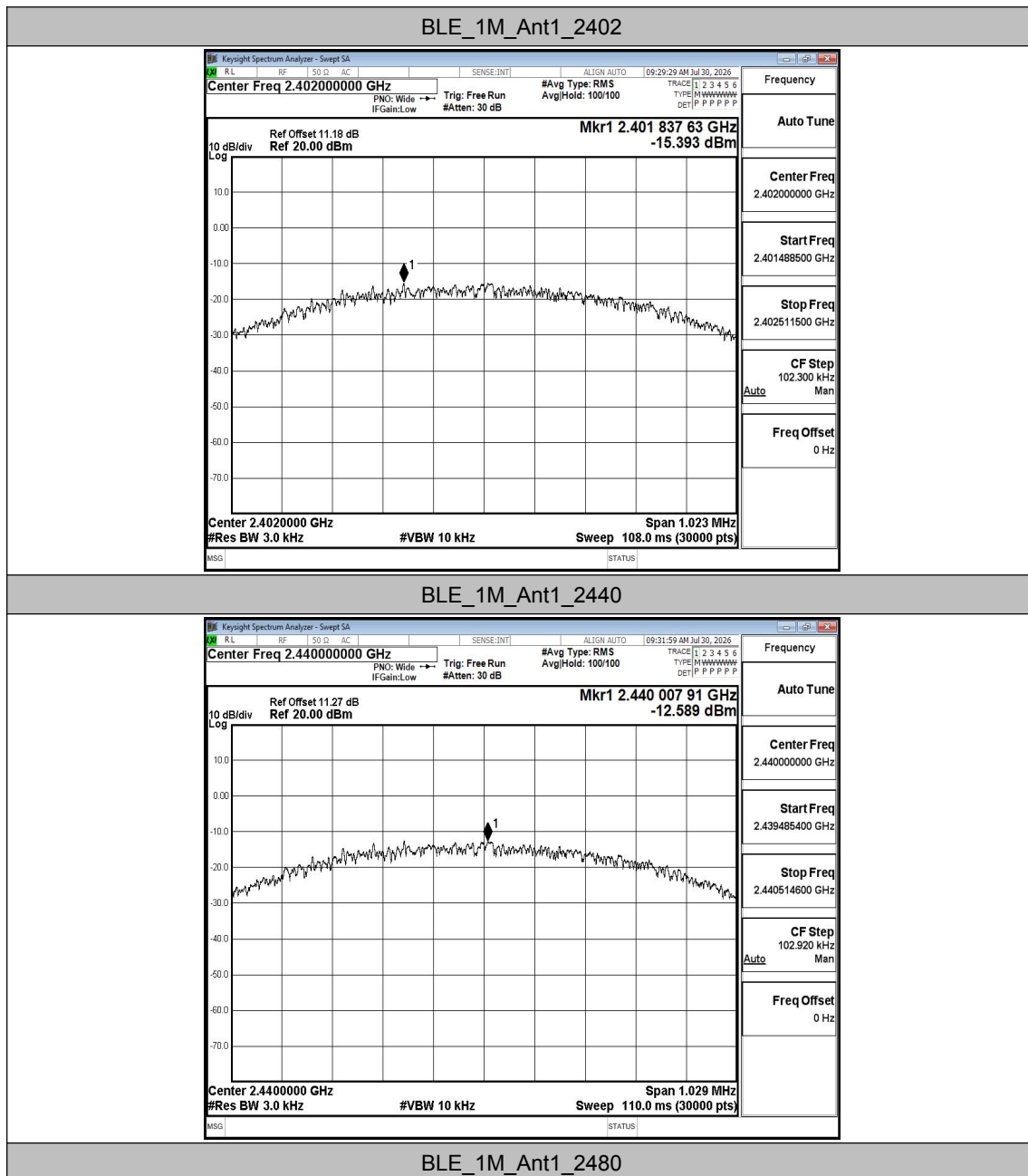


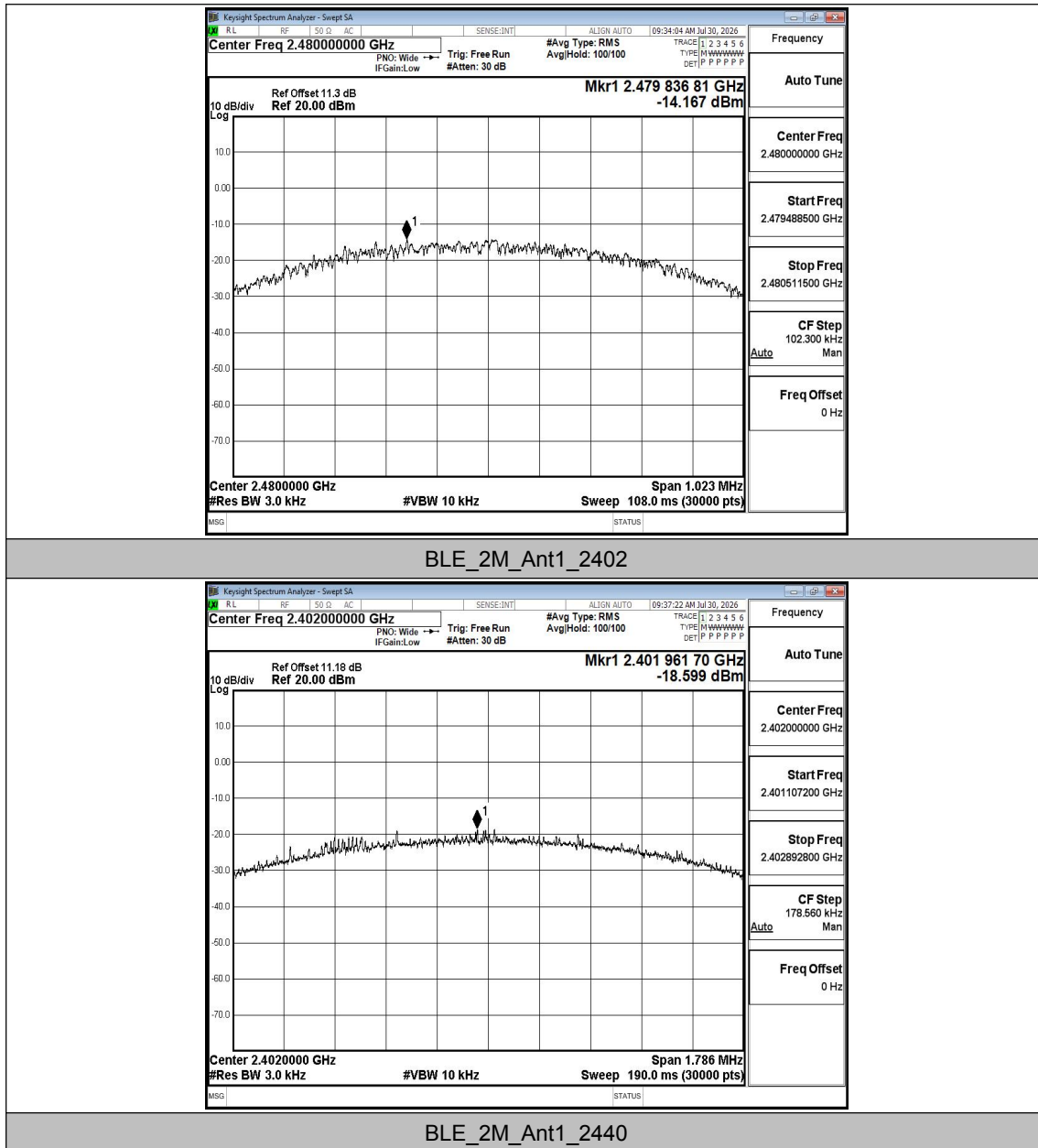
B.3 Maximum power spectral density

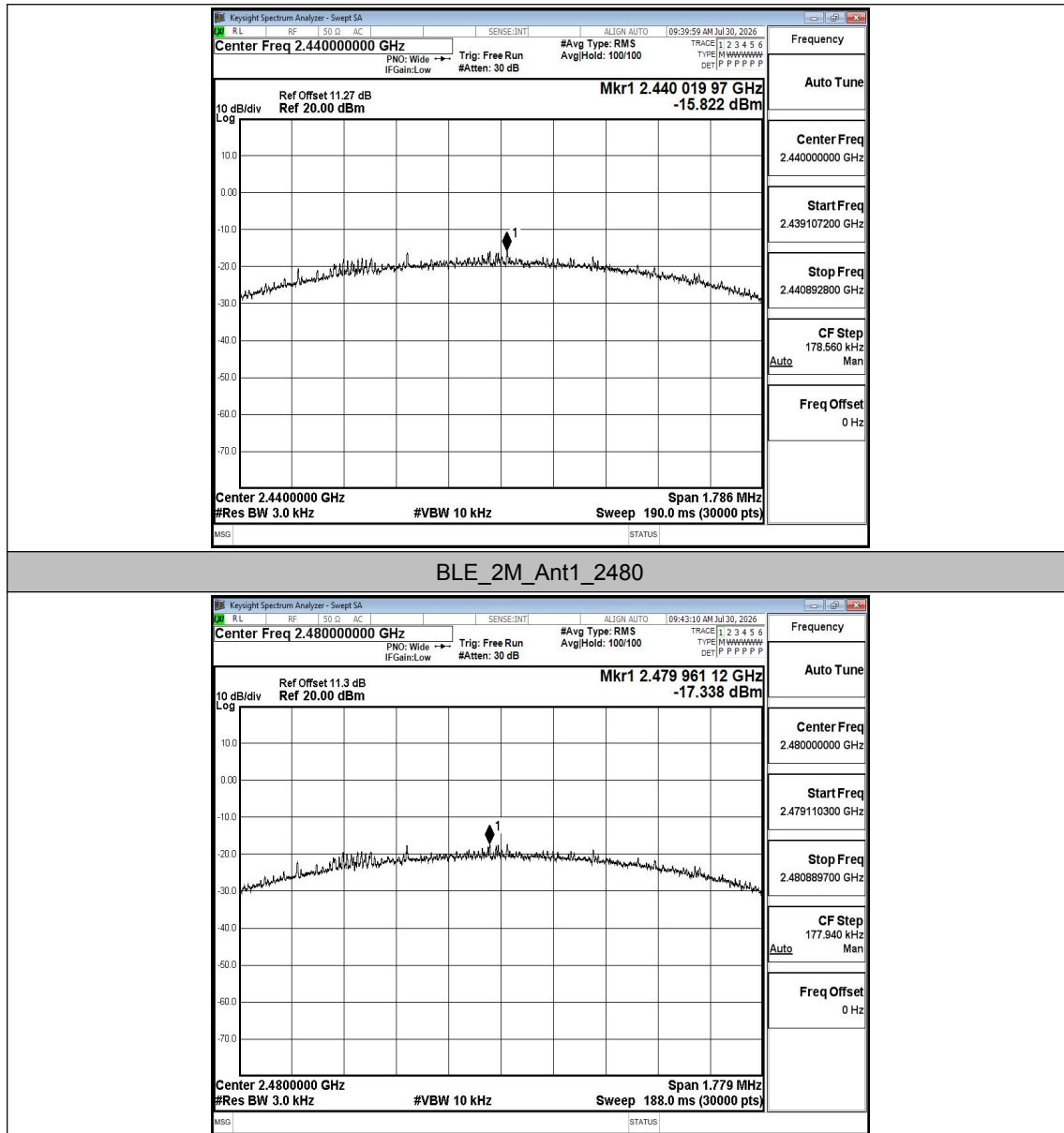
Test Result

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





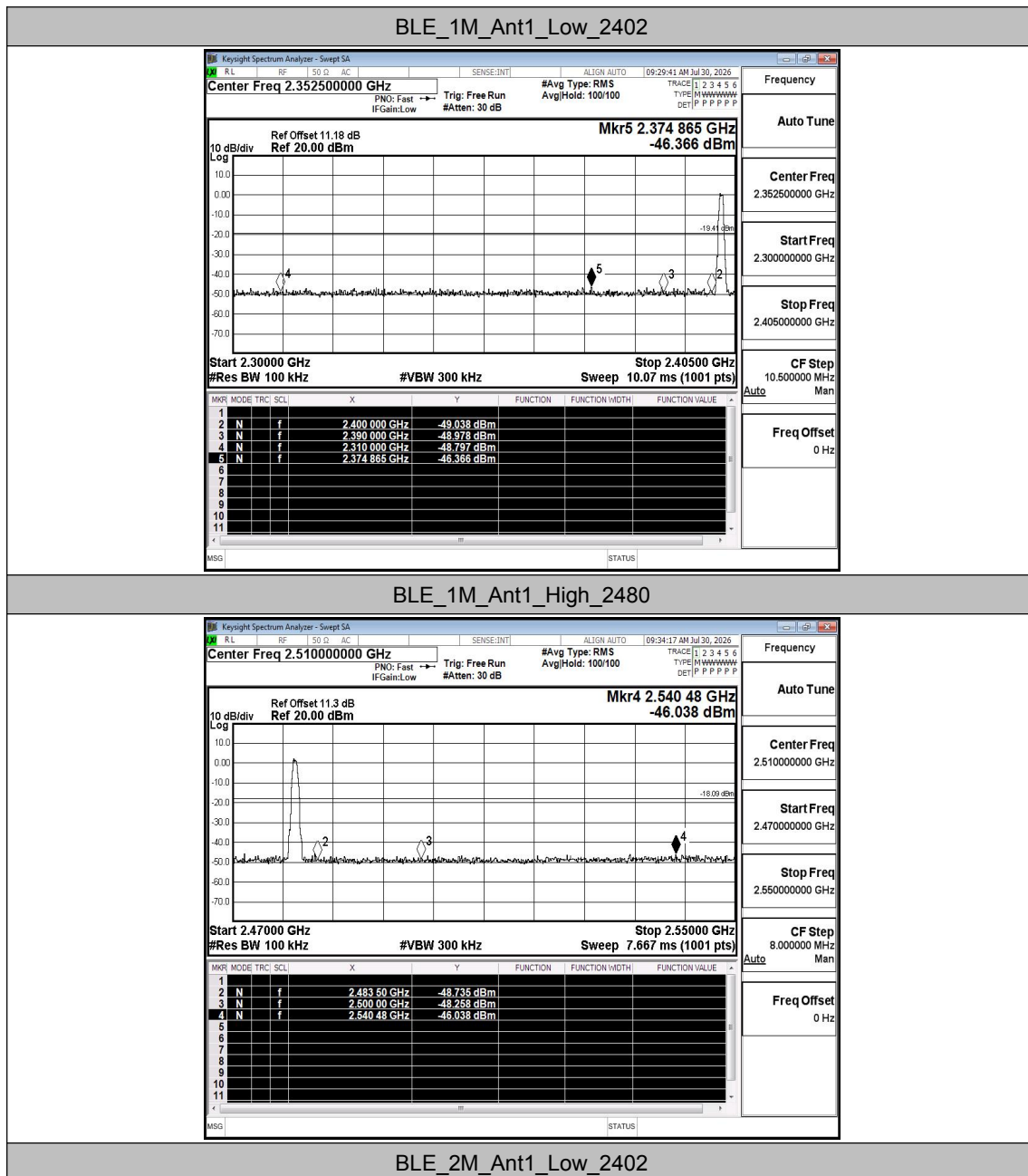


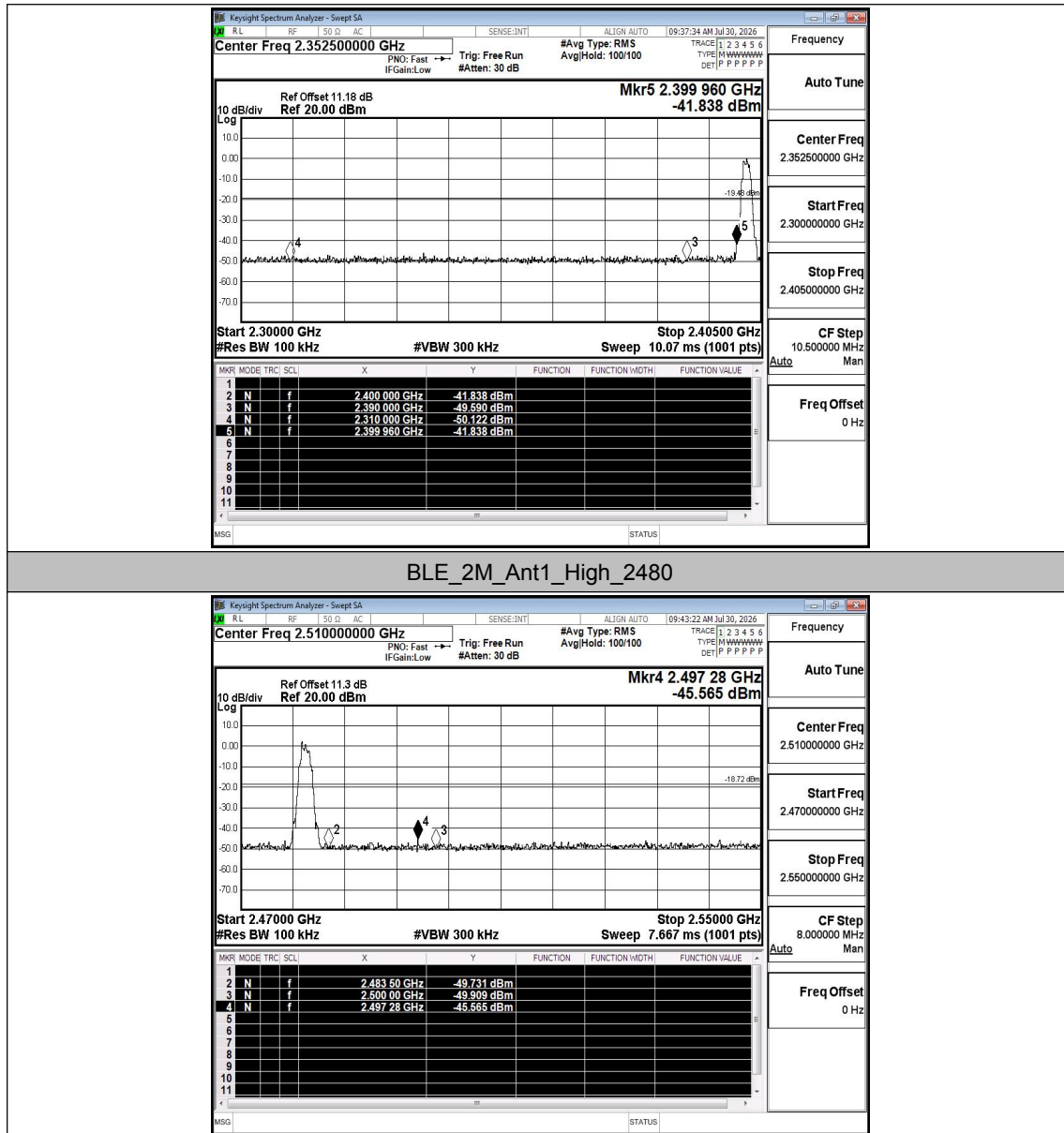
B.4 Band edge measurements

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



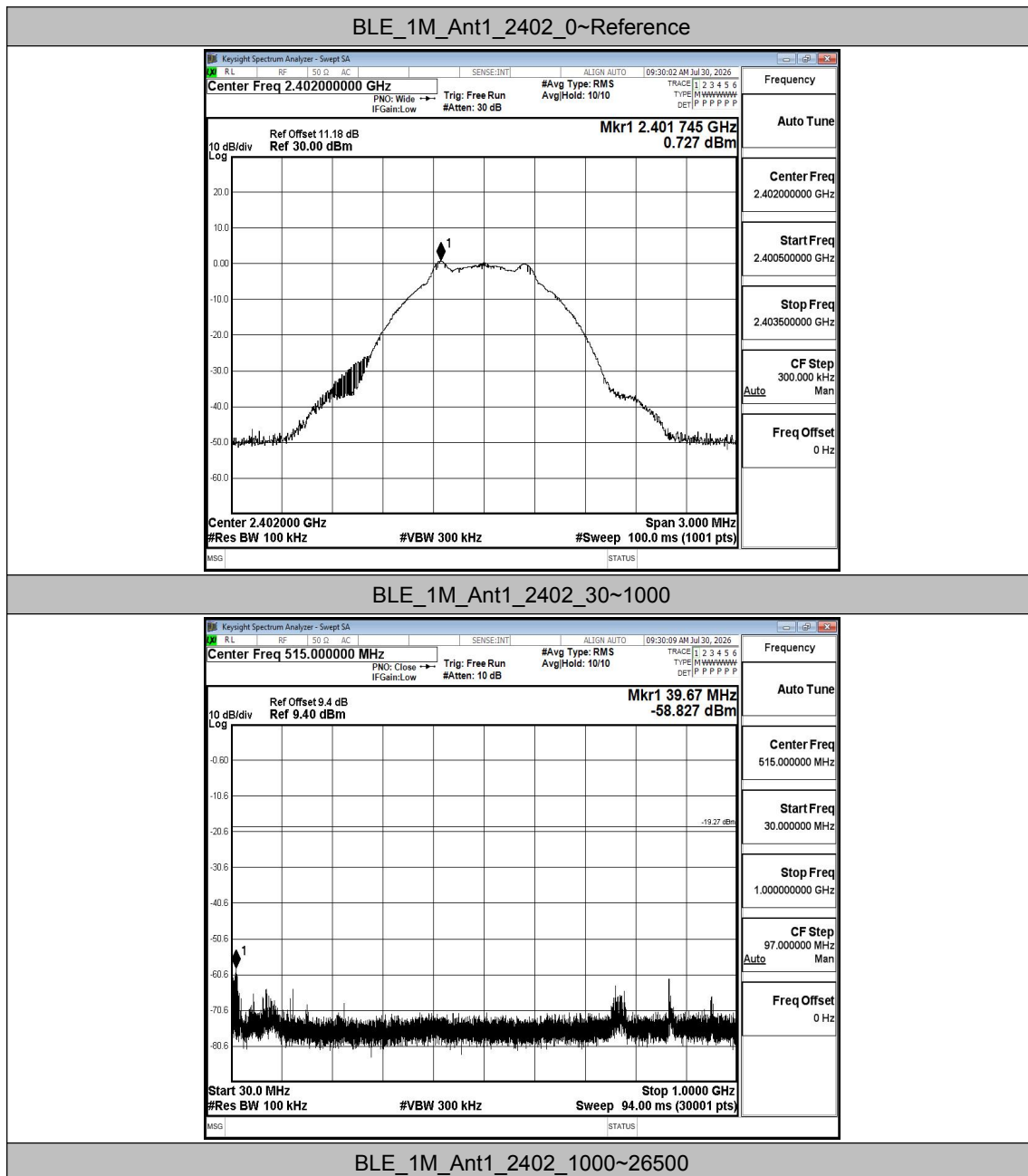


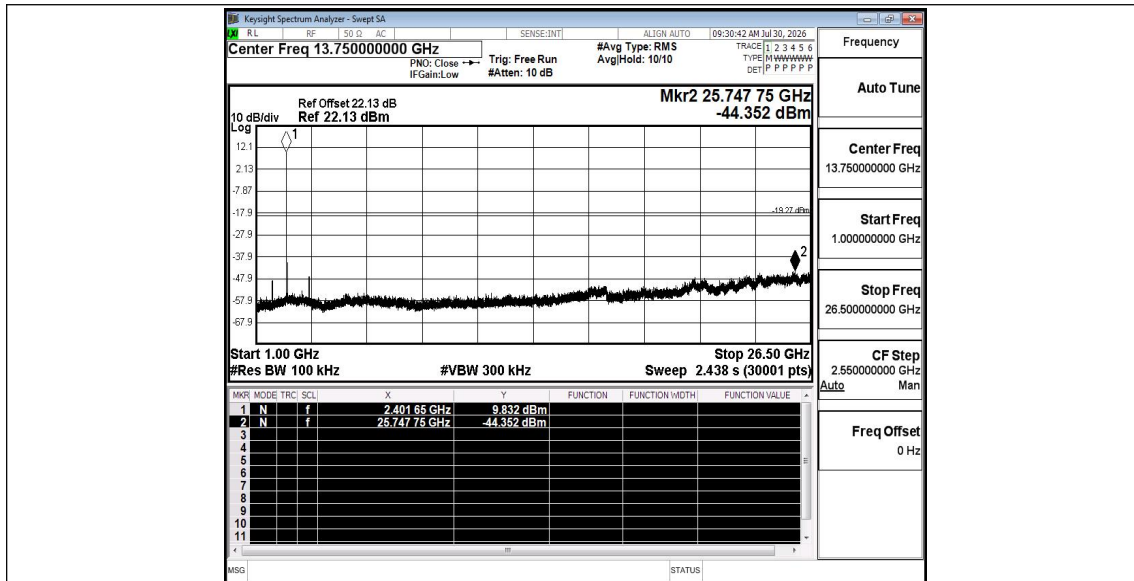
B.5 Conducted Spurious Emission

Test Result

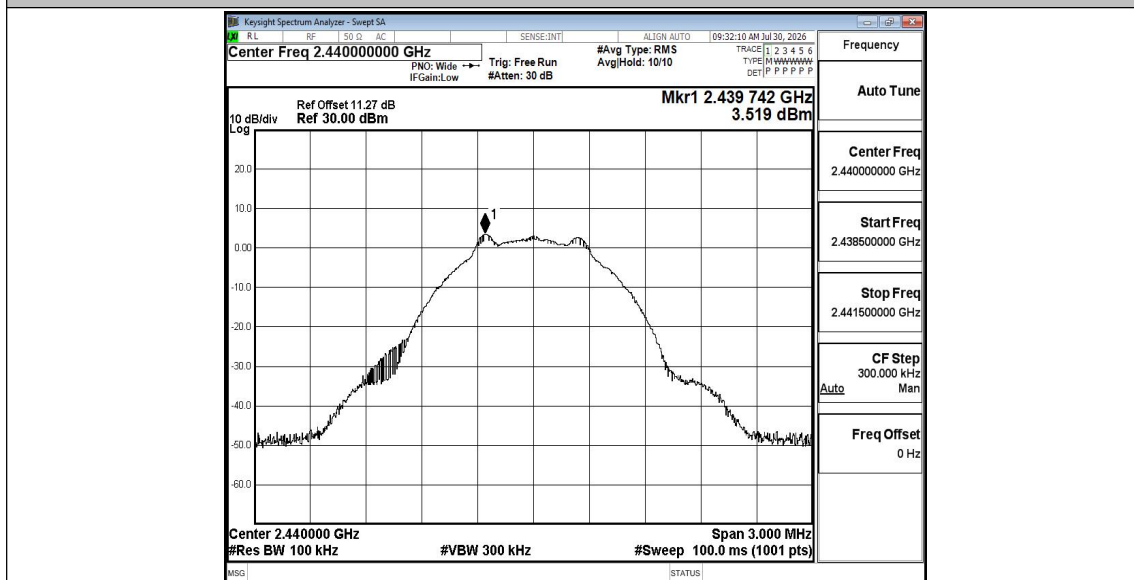
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.73	0.73	---	PASS
			30~1000	0.73	-58.83	≤-19.27	PASS
			1000~26500	0.73	-44.35	≤-19.27	PASS
		2440	Reference	3.52	3.52	---	PASS
			30~1000	3.52	-59.07	≤-16.48	PASS
			1000~26500	3.52	-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

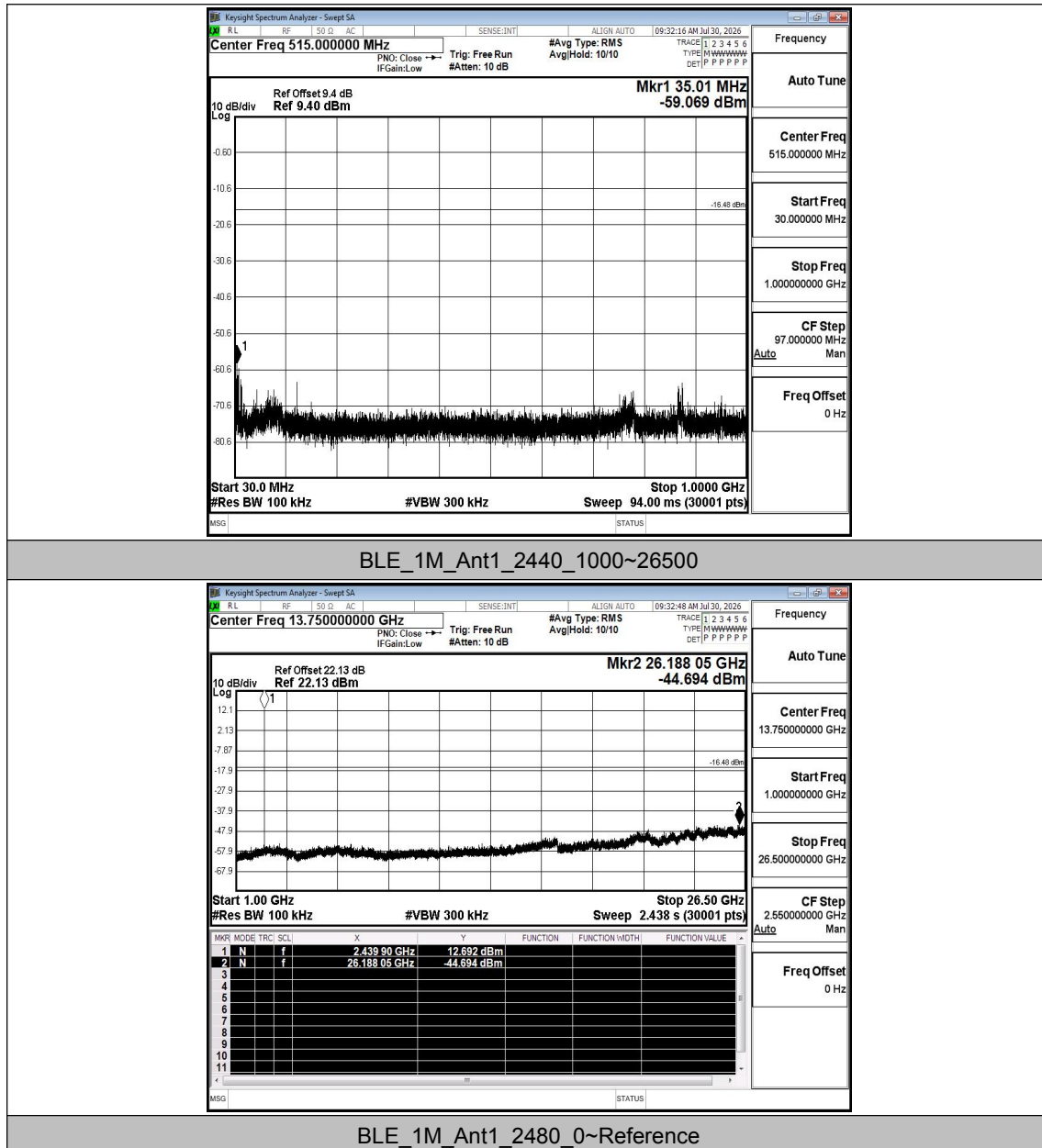


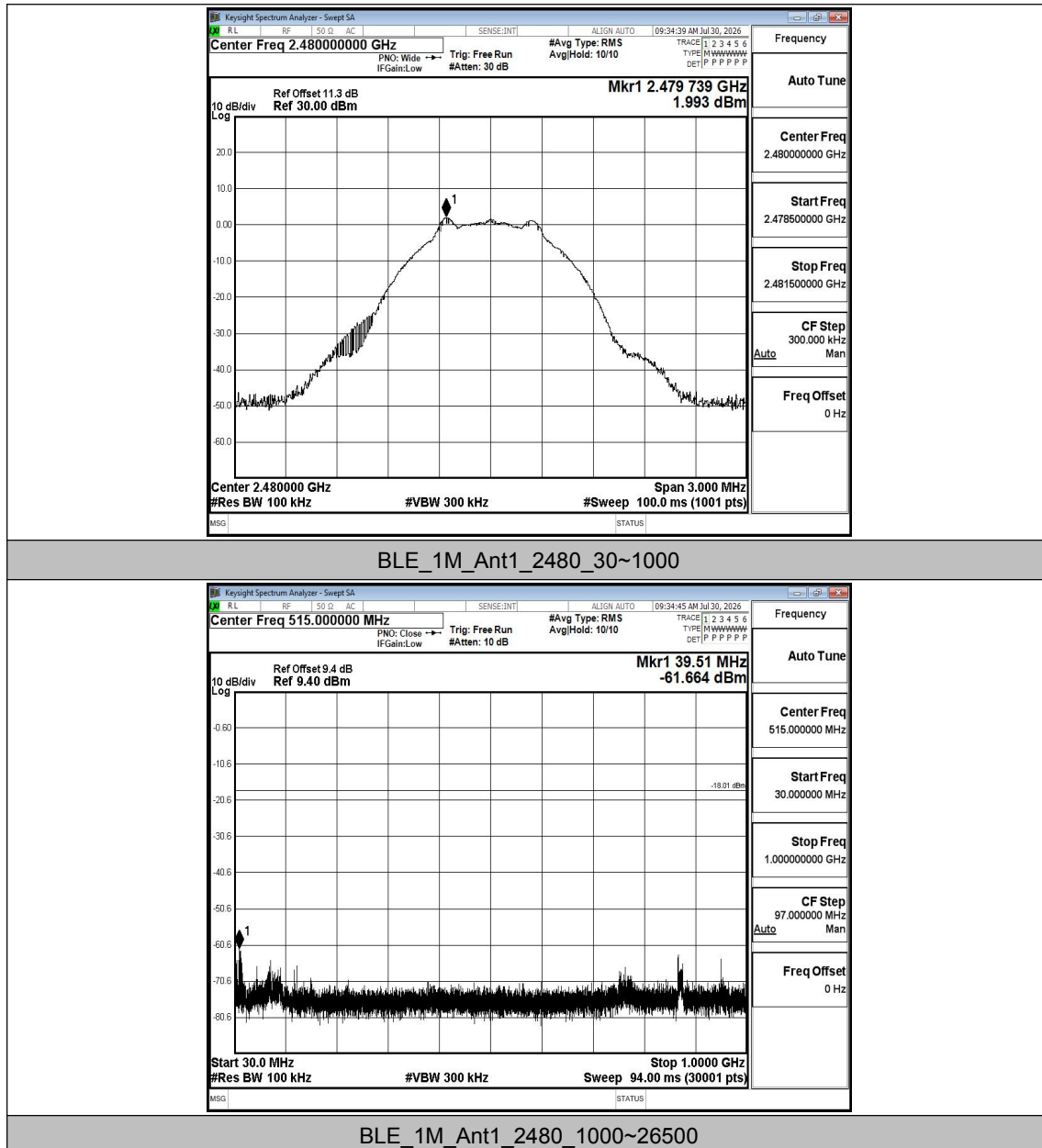


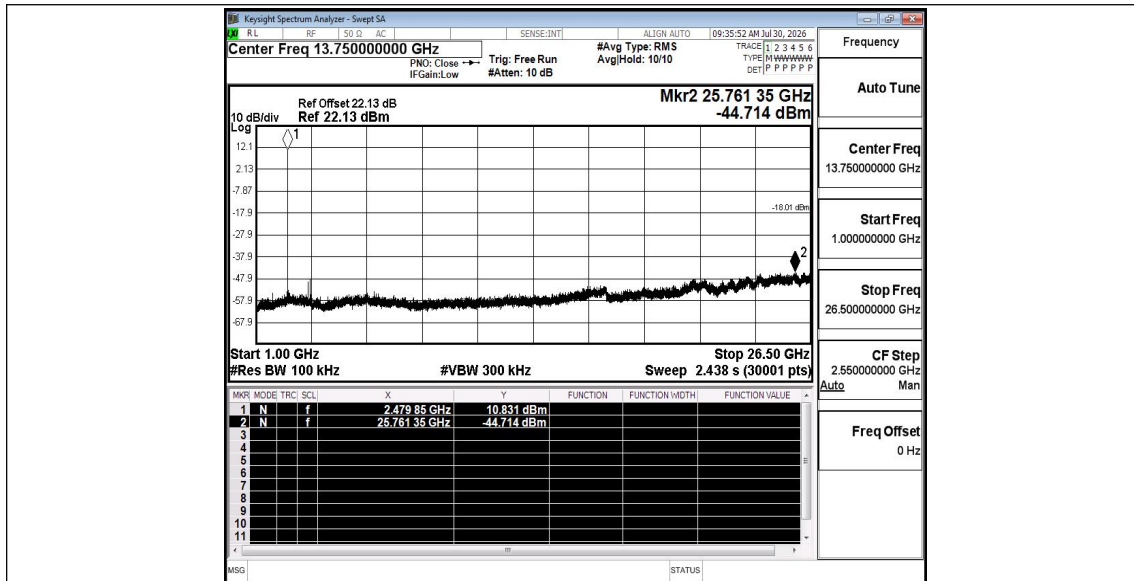
BLE_1M_Ant1_2440_0~Reference



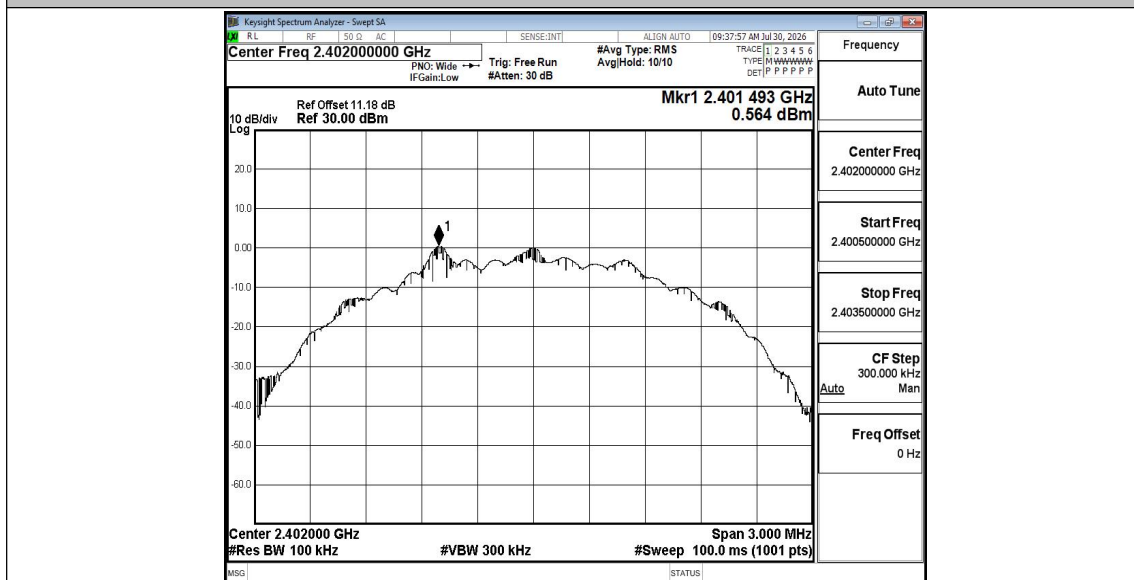
BLE_1M_Ant1_2440_30~1000







BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000

