

Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: ROCK SPEAKER

Test Model: TS-OA2RS-SND

Environmental Conditions

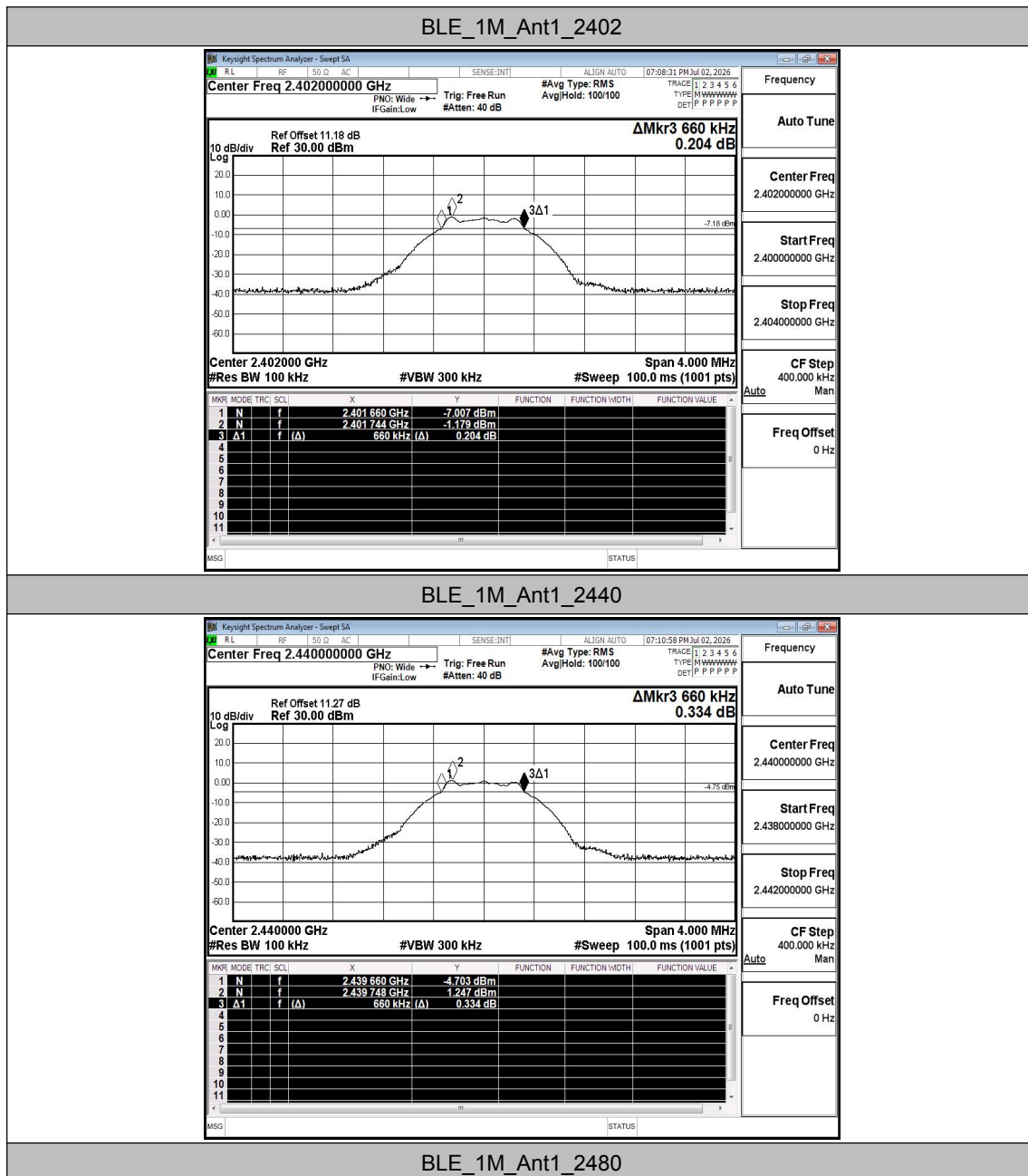
Temperature:	24.2°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

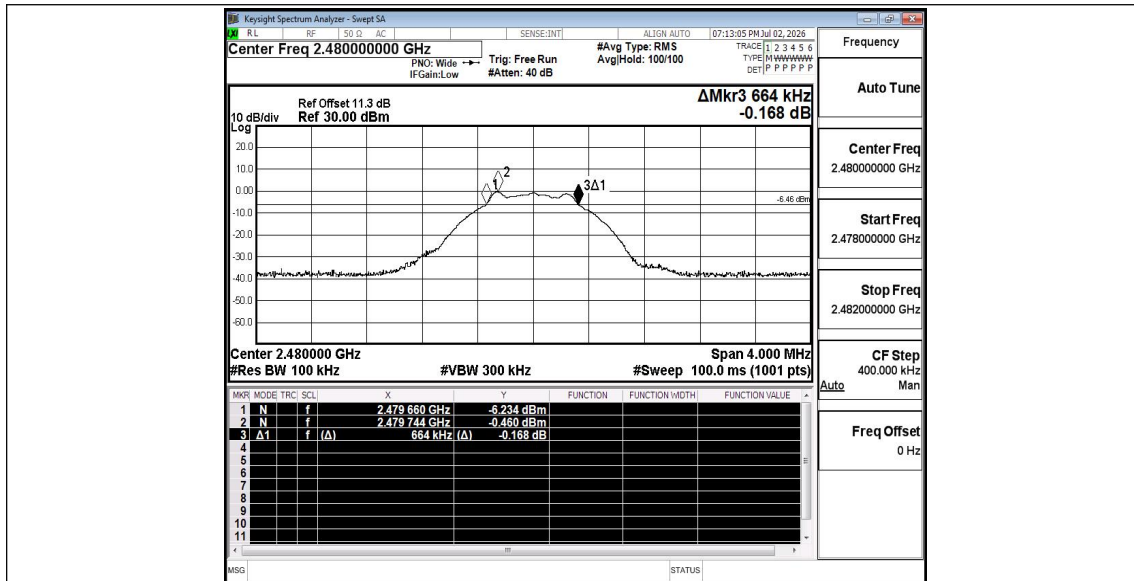
B.1 DTS Bandwidth

Test Result

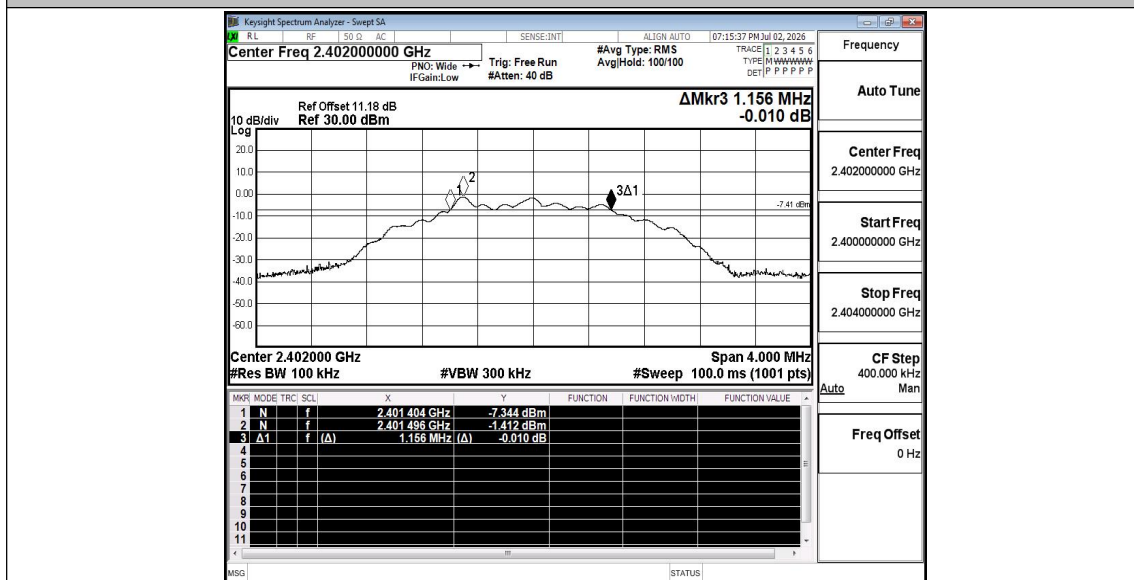
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.660	2402.320	0.5	PASS
		2440	0.660	2439.660	2440.320	0.5	PASS
		2480	0.664	2479.660	2480.324	0.5	PASS
BLE_2M	Ant1	2402	1.156	2401.404	2402.560	0.5	PASS
		2440	1.152	2439.404	2440.556	0.5	PASS
		2480	1.156	2479.404	2480.560	0.5	PASS

Test Graphs

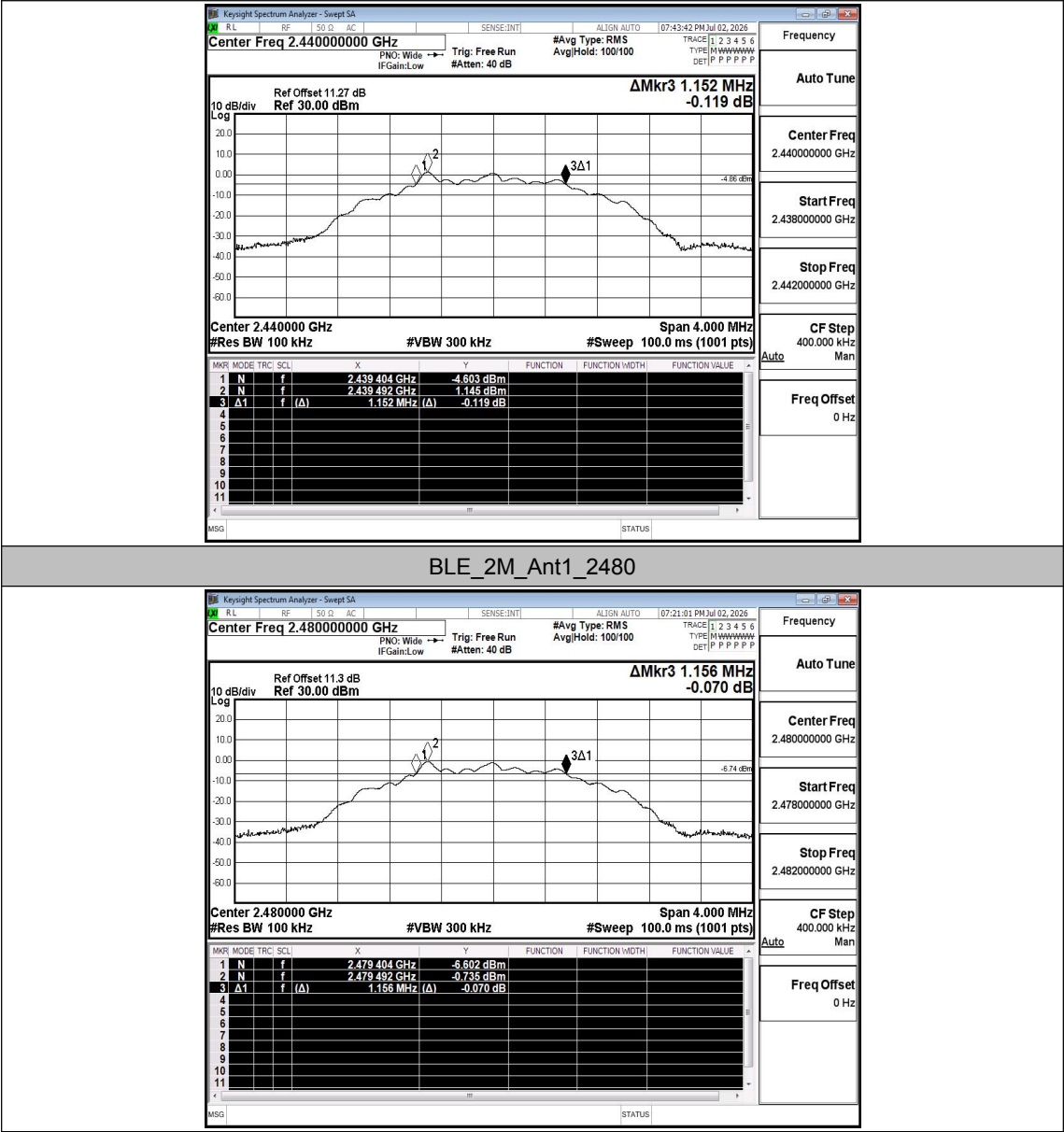




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

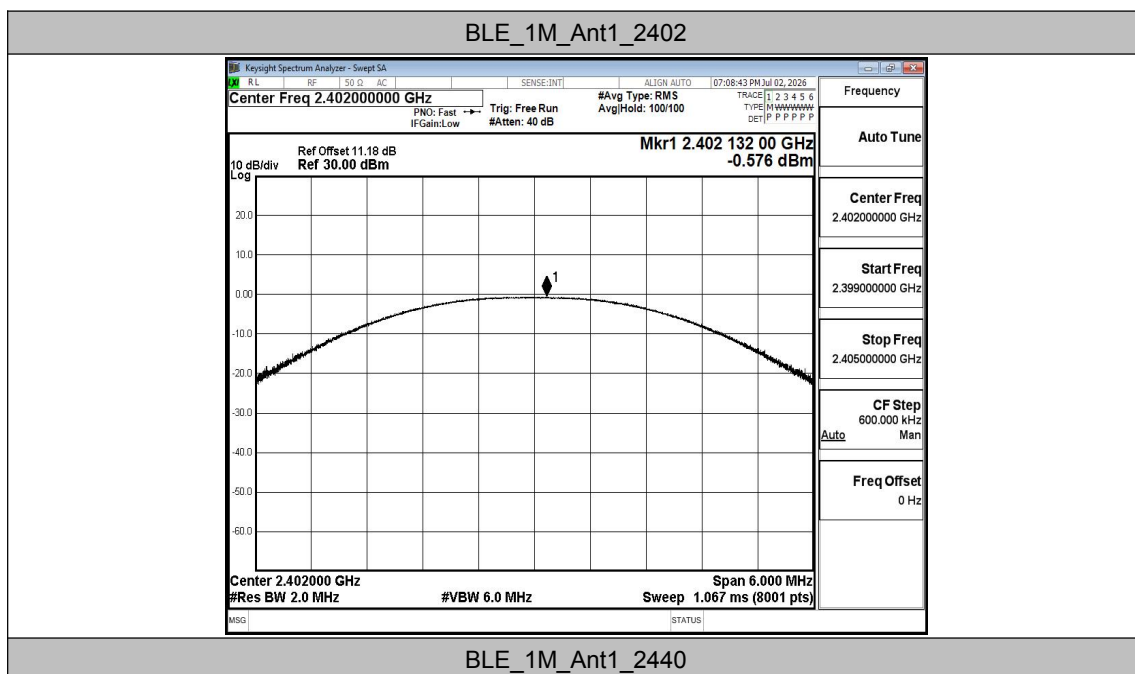


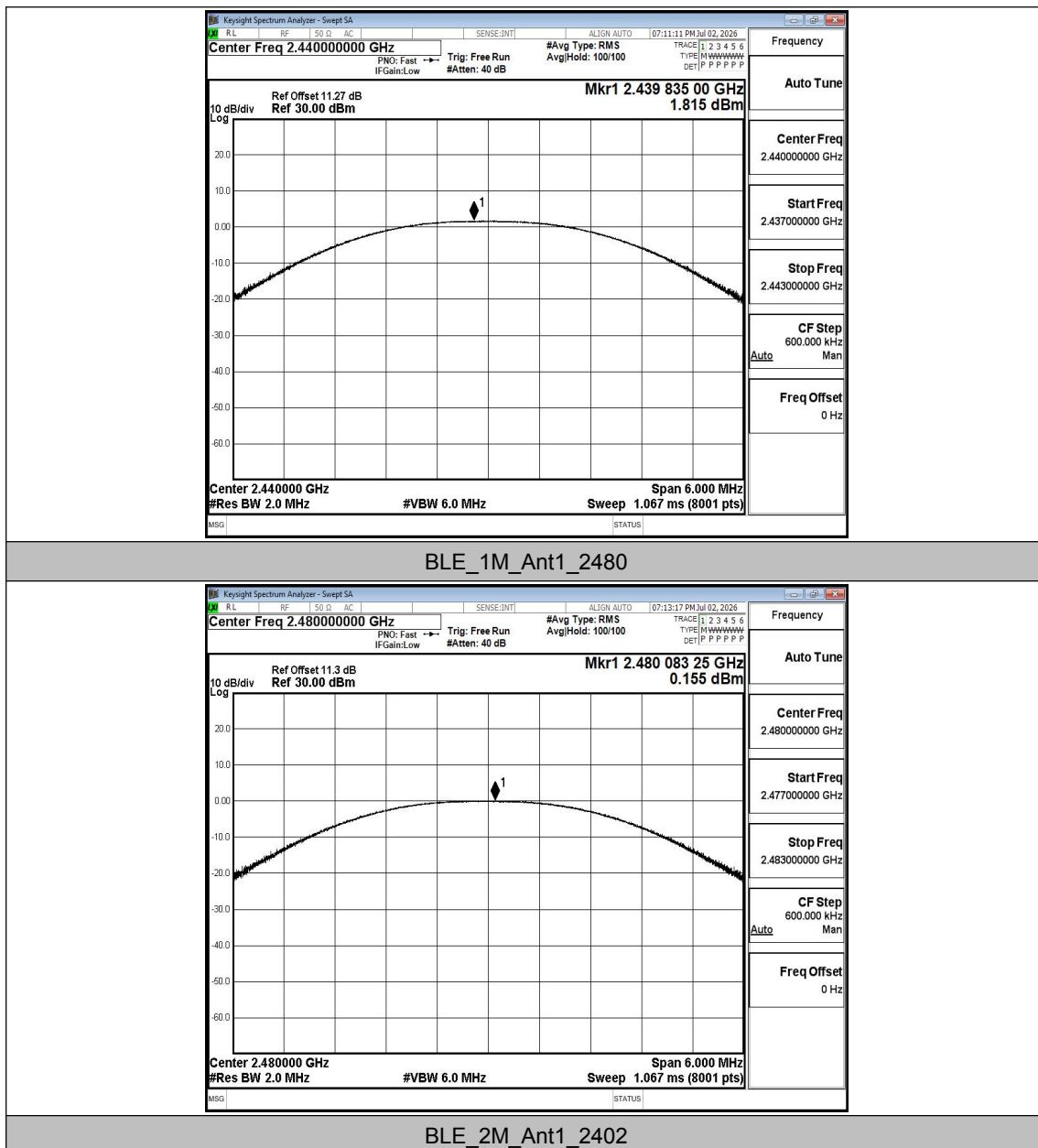
B.2 Maximum Peak conducted output power

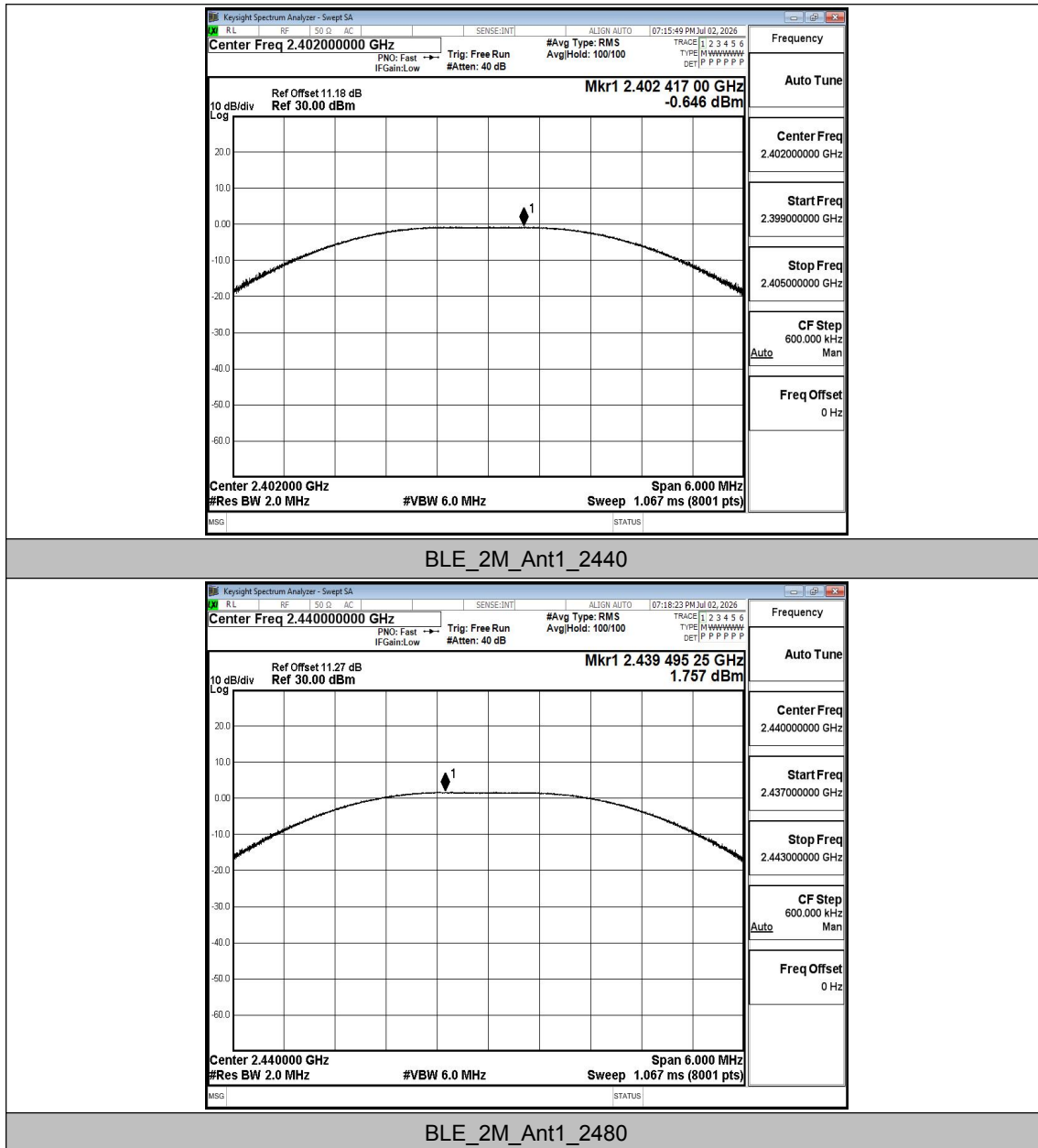
Test Result Peak

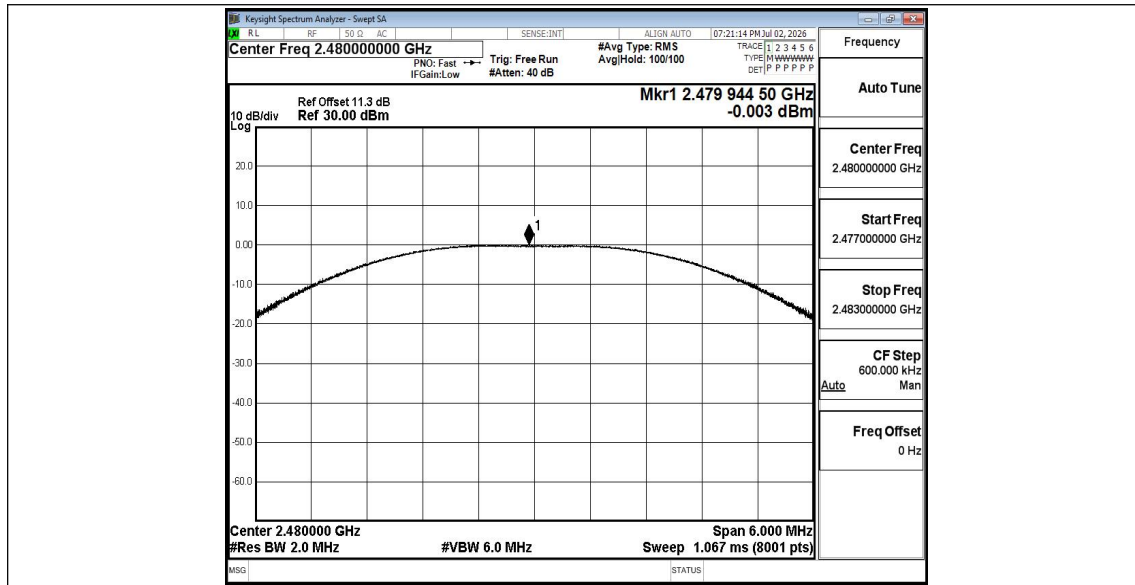
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.58	≤30	PASS
		2440	1.82	≤30	PASS
		2480	0.16	≤30	PASS
BLE_2M	Ant1	2402	-0.65	≤30	PASS
		2440	1.76	≤30	PASS
		2480	0.00	≤30	PASS

Test Graphs Peak







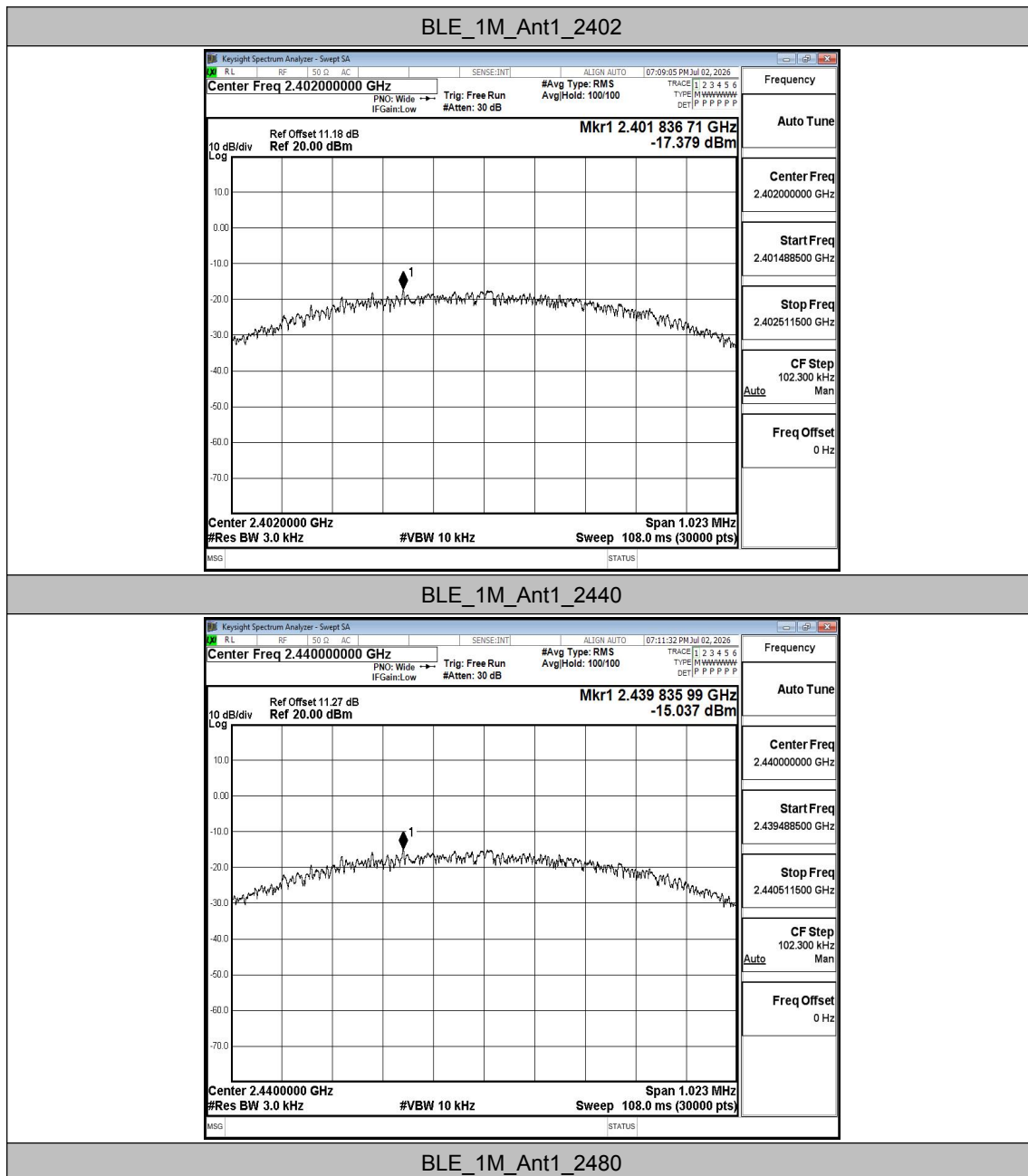


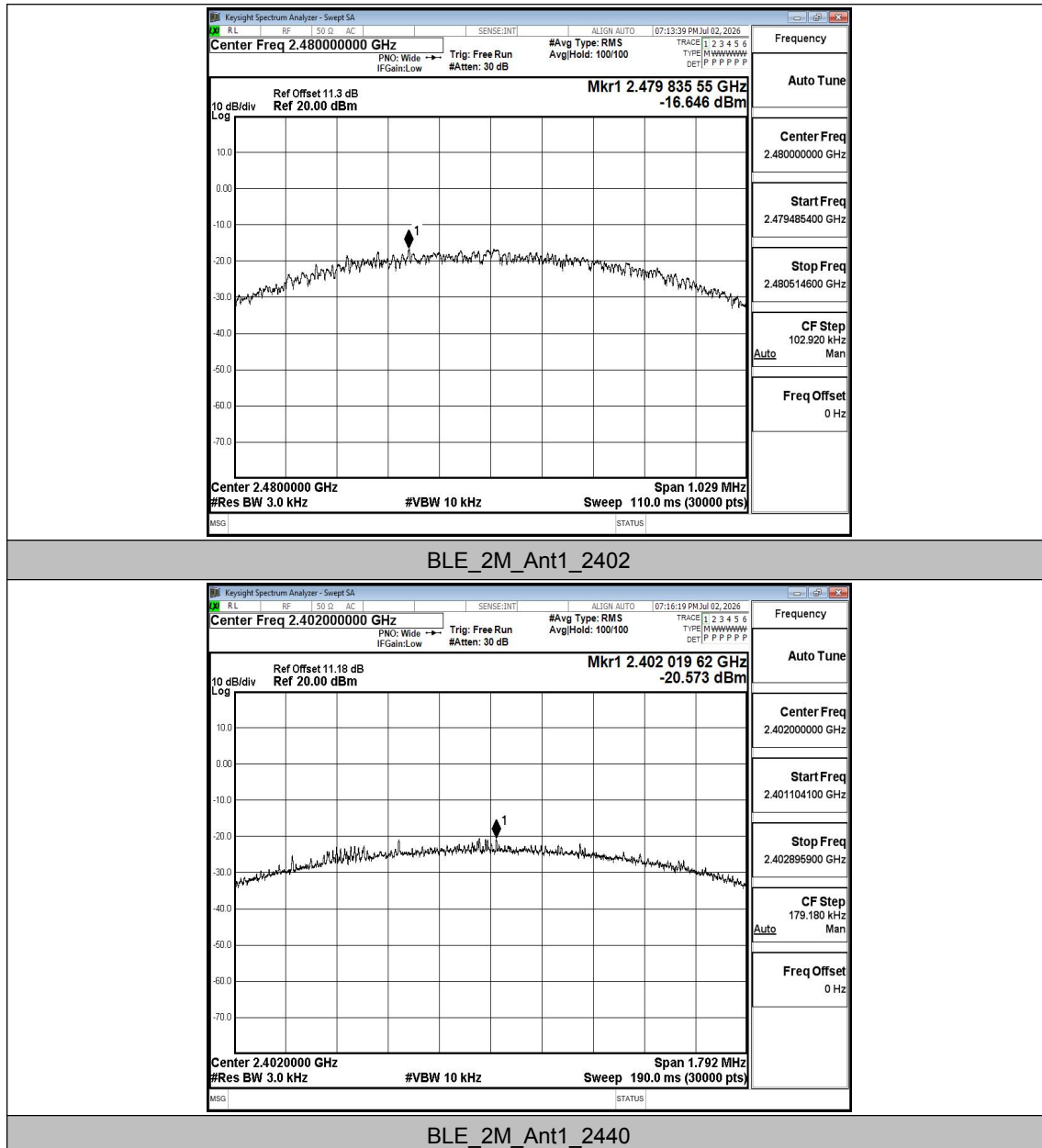
B.3 Maximum power spectral density

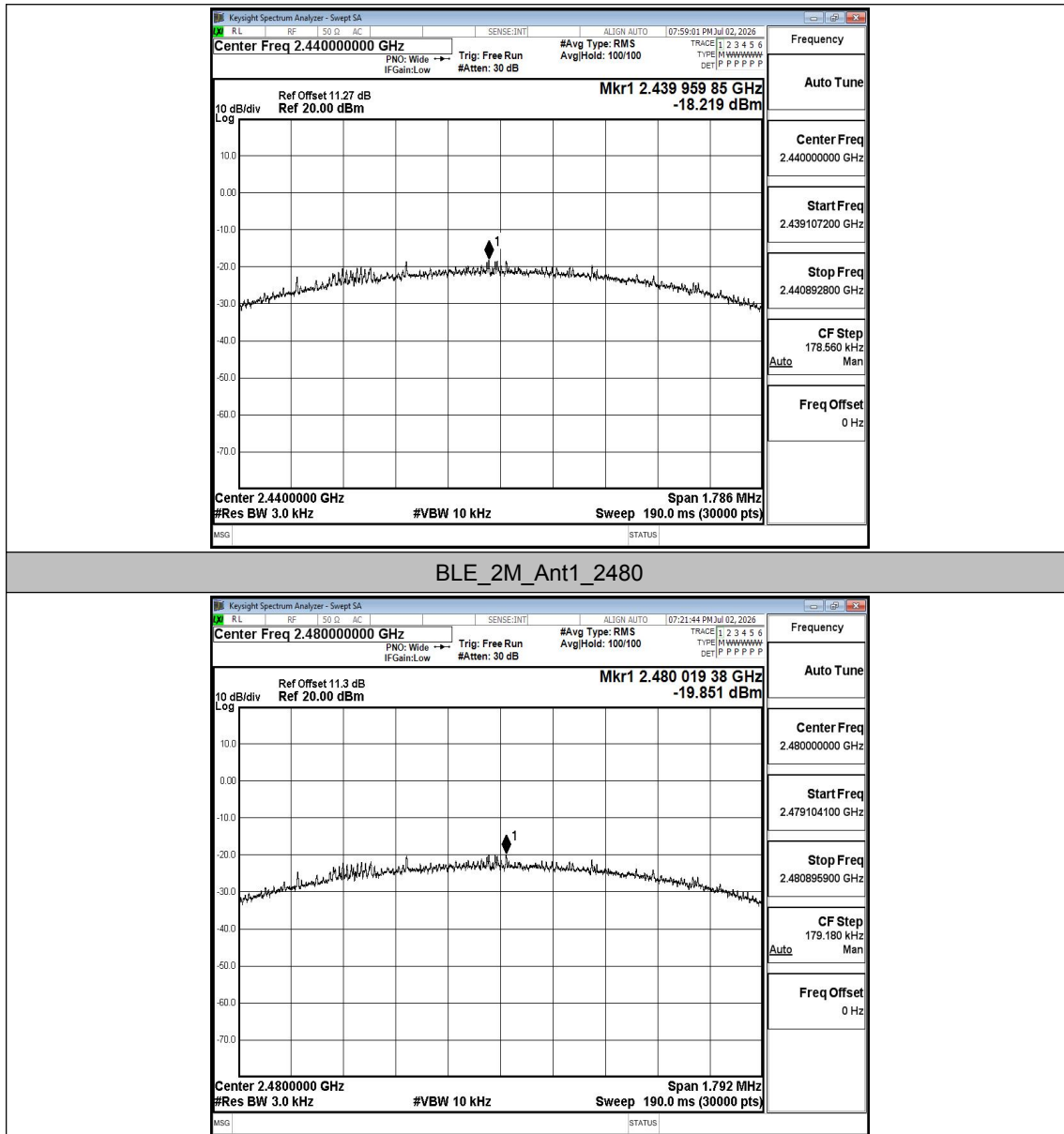
Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.38	≤8.00	PASS
		2440	-15.04	≤8.00	PASS
		2480	-16.65	≤8.00	PASS
BLE_2M	Ant1	2402	-20.57	≤8.00	PASS
		2440	-18.22	≤8.00	PASS
		2480	-19.85	≤8.00	PASS

Test Graphs





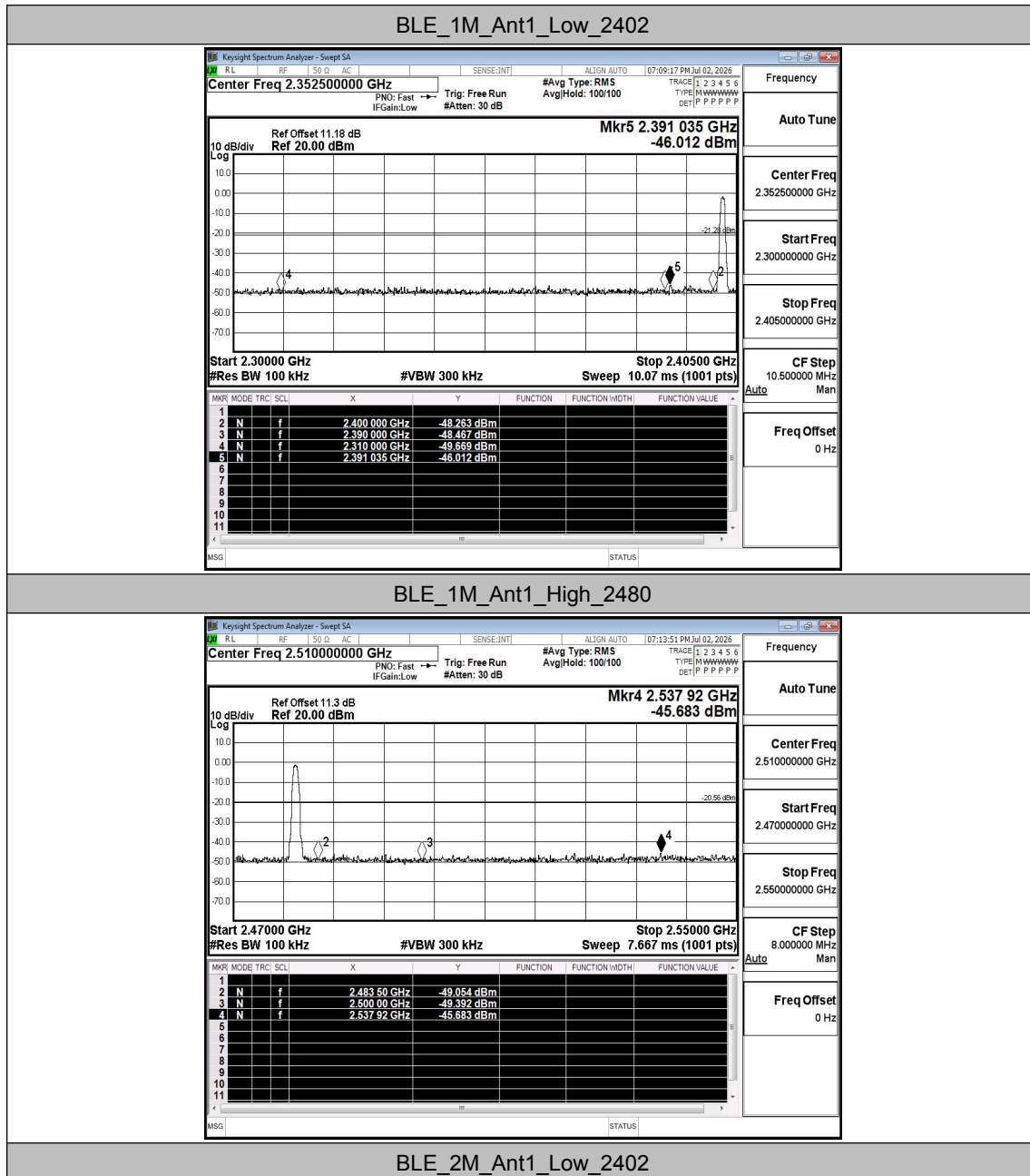


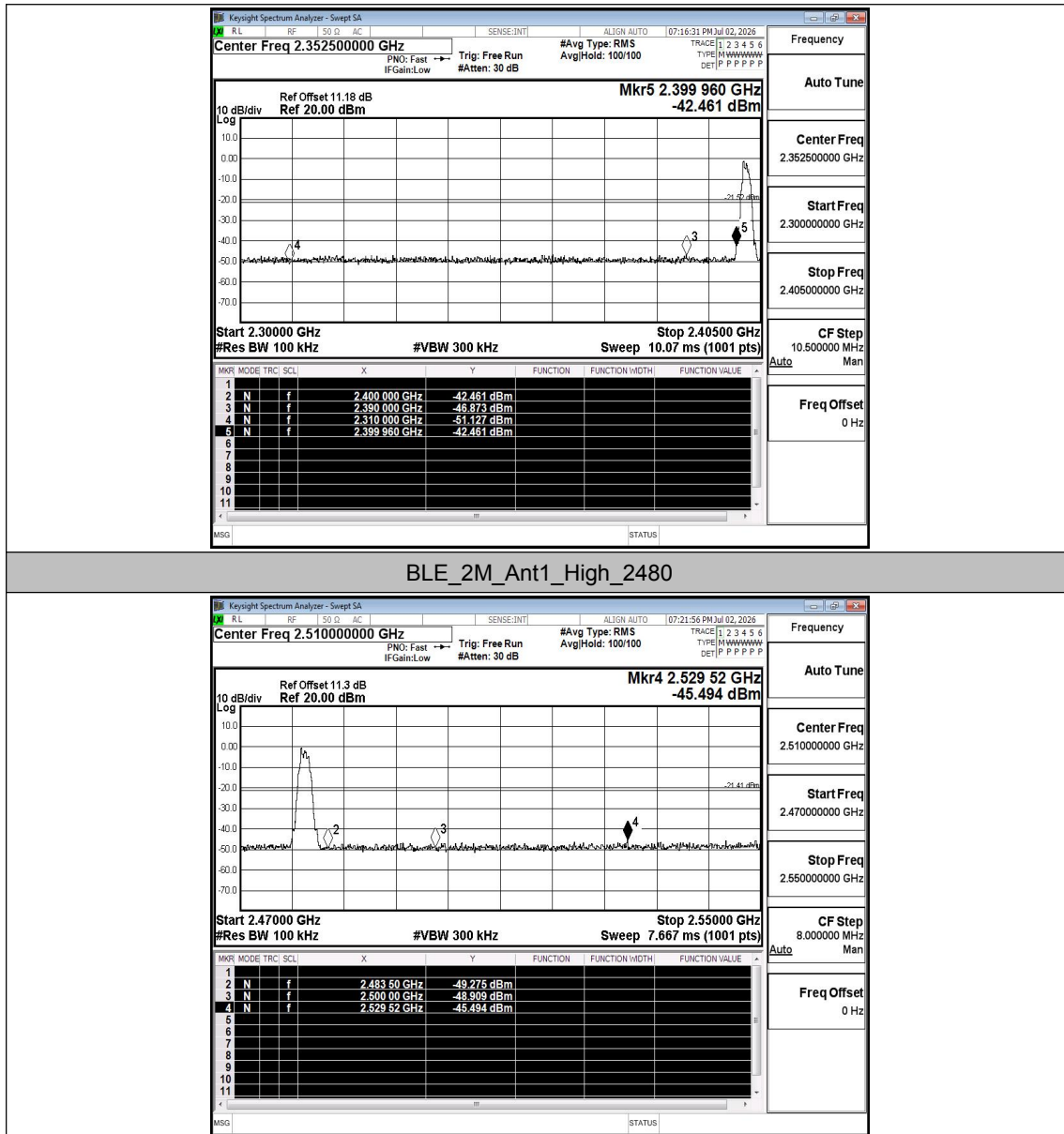
B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.28	-46.01	≤ -21.28	PASS
		High	2480	-0.56	-45.68	≤ -20.56	PASS
BLE_2M	Ant1	Low	2402	-1.52	-42.46	≤ -21.52	PASS
		High	2480	-1.41	-45.49	≤ -21.41	PASS

Test Graphs



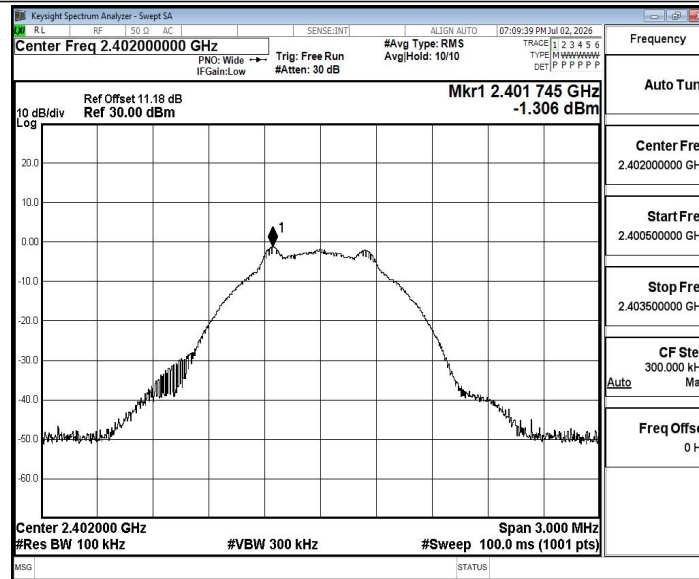


B.5 Conducted Spurious Emission**Test Result**

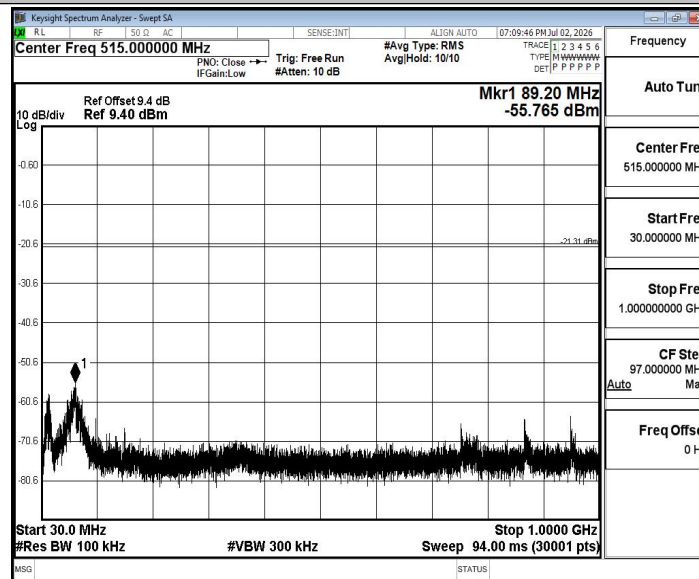
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.31	-1.31	---	PASS
			30~1000	-1.31	-55.77	≤-21.31	PASS
			1000~26500	-1.31	-44.25	≤-21.31	PASS
		2440	Reference	1.12	1.12	---	PASS
			30~1000	1.12	-55.83	≤-18.88	PASS
			1000~26500	1.12	-45.22	≤-18.88	PASS
		2480	Reference	-0.52	-0.52	---	PASS
			30~1000	-0.52	-55.44	≤-20.52	PASS
			1000~26500	-0.52	-44.9	≤-20.52	PASS
BLE_2M	Ant1	2402	Reference	-1.48	-1.48	---	PASS
			30~1000	-1.48	-56.67	≤-21.48	PASS
			1000~26500	-1.48	-44.26	≤-21.48	PASS
		2440	Reference	1.08	1.08	---	PASS
			30~1000	1.08	-56.23	≤-18.92	PASS
			1000~26500	1.08	-45.07	≤-18.92	PASS
		2480	Reference	-0.78	-0.78	---	PASS
			30~1000	-0.78	-55.59	≤-20.78	PASS
			1000~26500	-0.78	-44.61	≤-20.78	PASS

Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

