

Test Data Appendix For BLE

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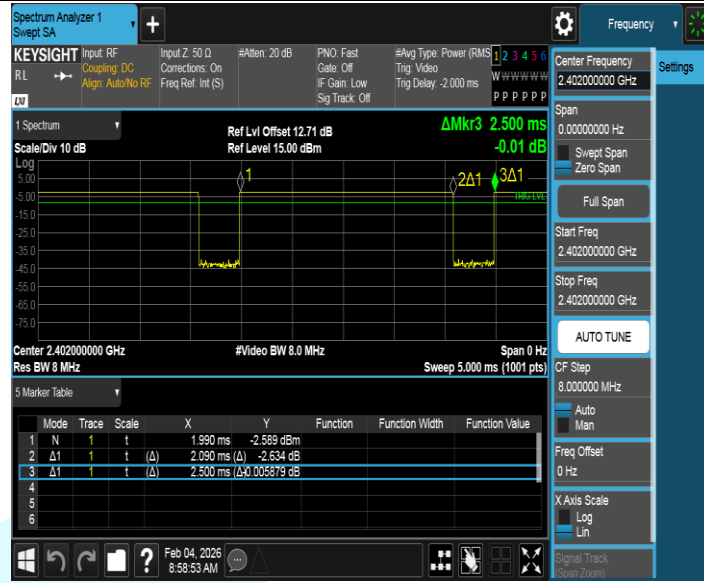
Duty Cycle

Test Mode	Antenna	Frequency (MHz)	ON Time [ms]	Period [ms]	X	DC [%]	X Factor
BLE_1M	Ant1	2402	2.09	2.50	0.8360	83.60	0.78
		2440	2.09	2.50	0.8360	83.60	0.78
		2480	2.09	2.50	0.8360	83.60	0.78
BLE_2M	Ant1	2402	1.06	1.87	0.5668	56.68	2.47
		2440	1.06	1.87	0.5668	56.68	2.47
		2480	1.06	1.87	0.5668	56.68	2.47

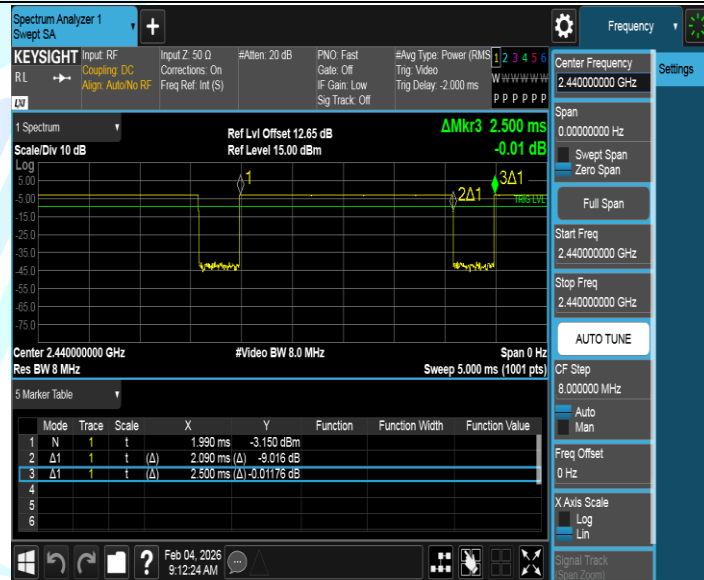


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

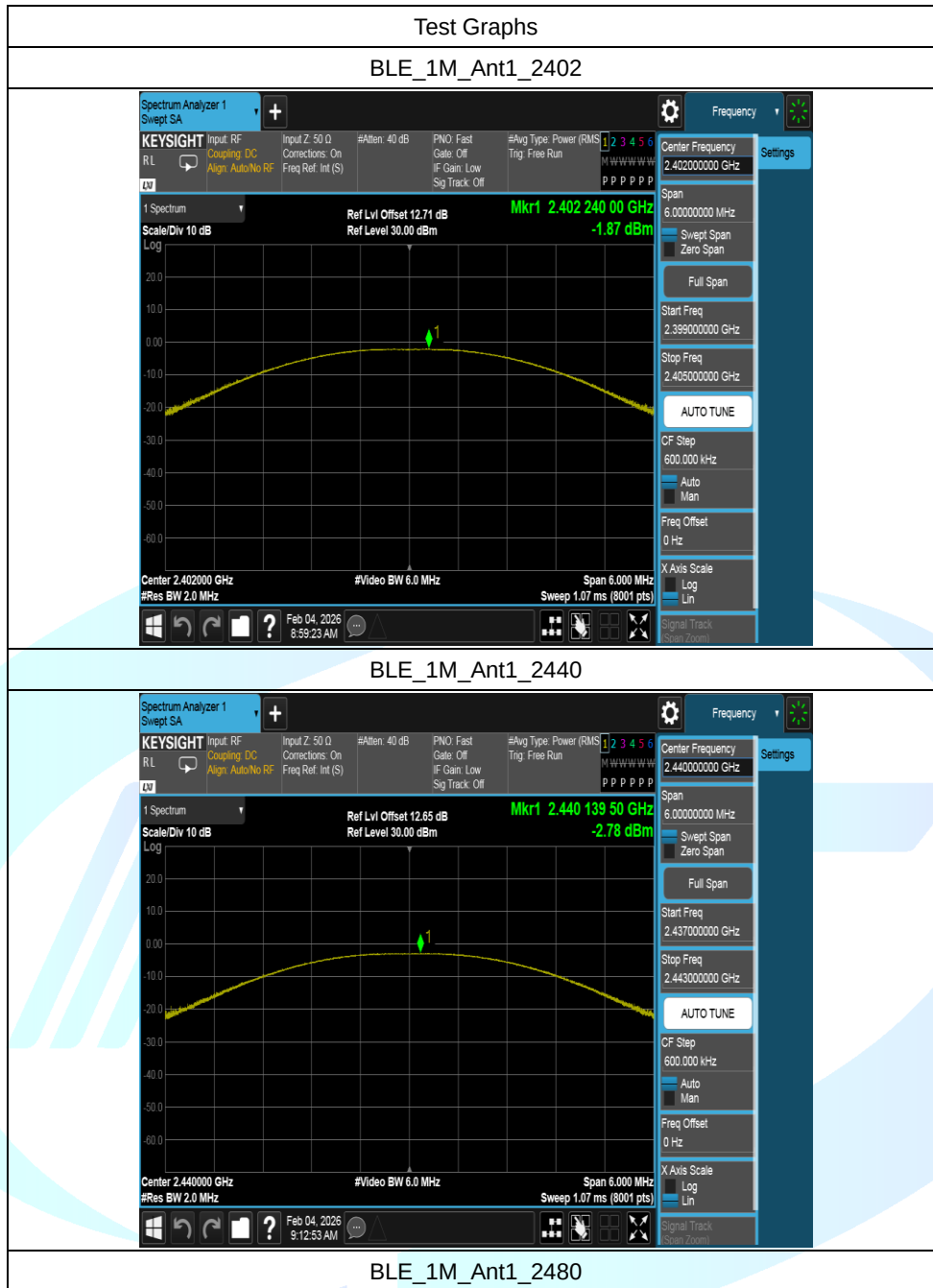


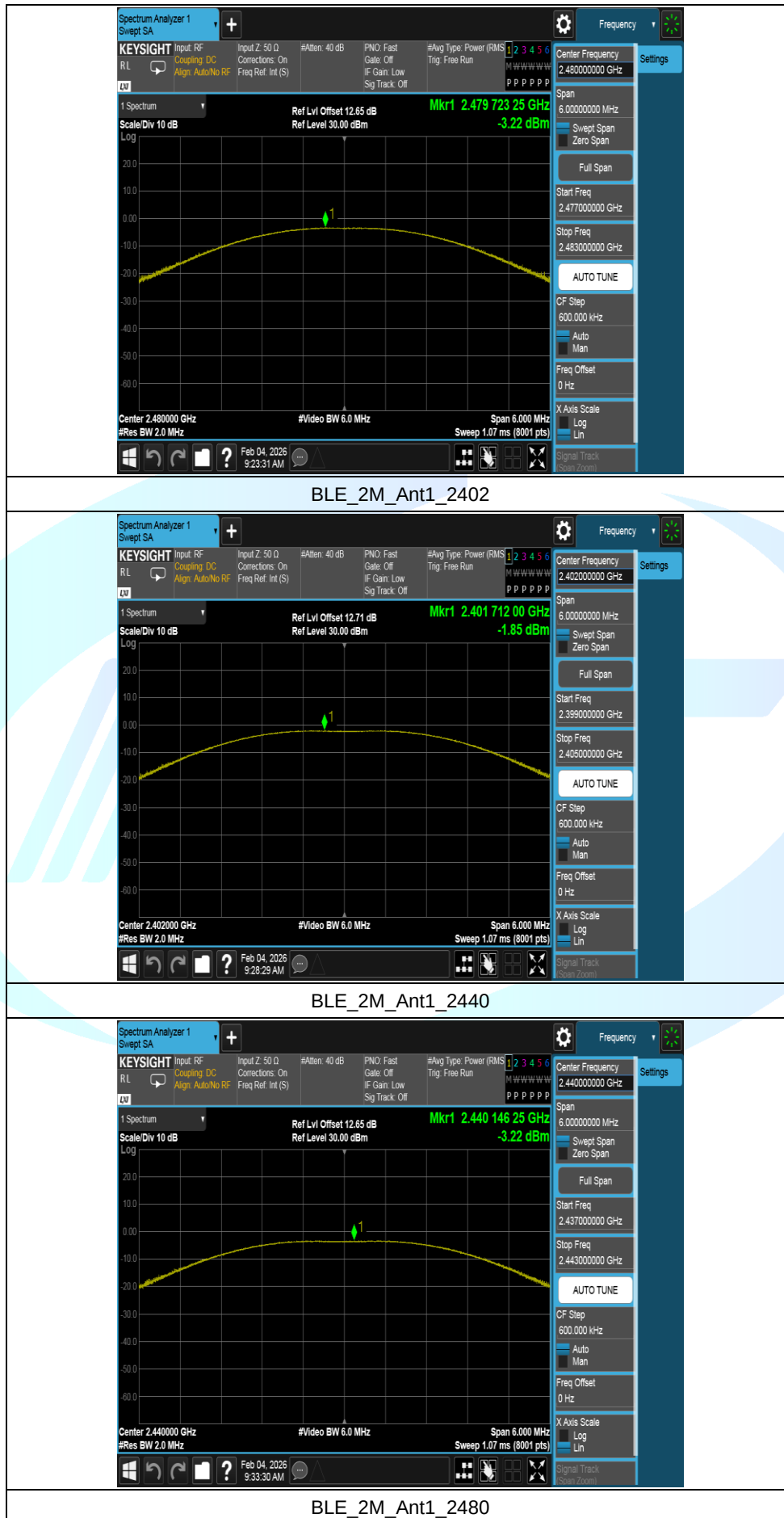


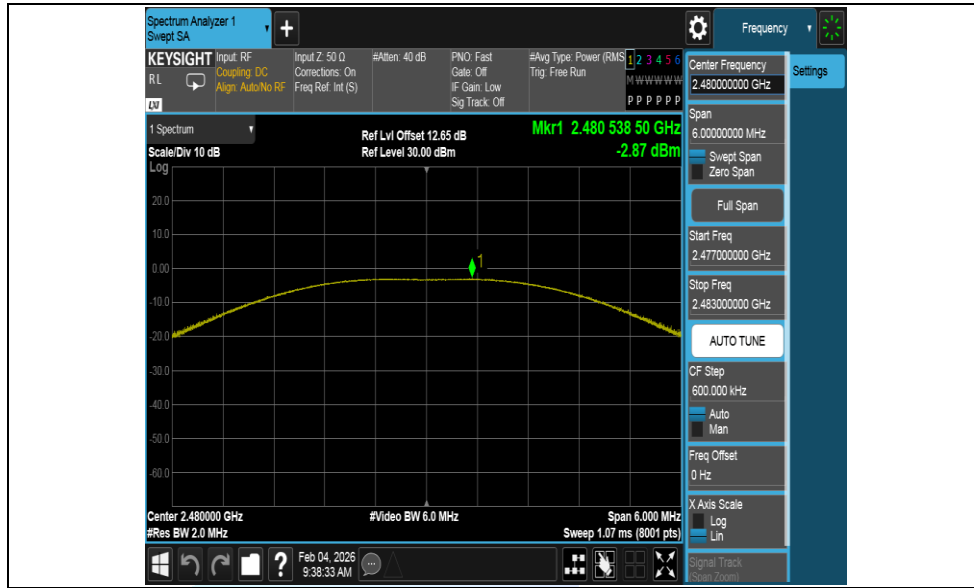
Maximum Peak Conducted Output Power

Test Mode	Antenna	Frequency (MHz)	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	-1.87	≤30	PASS
		2440	-2.78	≤30	PASS
		2480	-3.22	≤30	PASS
BLE_2M	Ant1	2402	-1.85	≤30	PASS
		2440	-3.22	≤30	PASS
		2480	-2.87	≤30	PASS









-6dB Emission Bandwidth

Test Mode	Antenna	Frequency (MHz)	DTS BW [MHz]	FL[MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.684	2402.352	0.5	PASS
		2440	0.668	2439.688	2440.356	0.5	PASS
		2480	0.696	2479.672	2480.368	0.5	PASS
BLE_2M	Ant1	2402	1.156	2401.456	2402.612	0.5	PASS
		2440	1.164	2439.440	2440.604	0.5	PASS
		2480	1.168	2479.444	2480.612	0.5	PASS









Occupied Bandwidth

Test Mode	Antenna	Frequency (MHz)	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0534	2401.5014	2402.5548	---	---
		2440	1.0527	2439.5011	2440.5538	---	---
		2480	1.0584	2479.4950	2480.5534	---	---
BLE_2M	Ant1	2402	2.0938	2400.9862	2403.0800	---	---
		2440	2.0960	2438.9892	2441.0852	---	---
		2480	2.0918	2478.9888	2481.0806	---	---









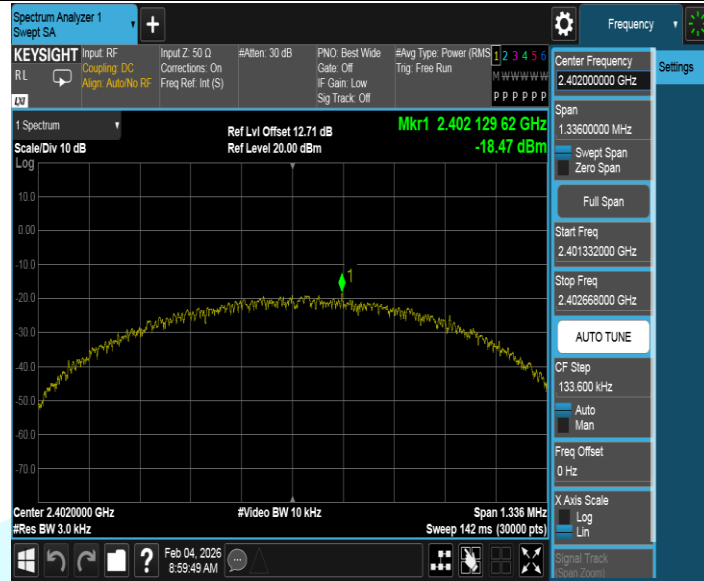
Power Spectral Density

Test Mode	Antenna	Frequency (MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.47	≤8.00	PASS
		2440	-19.05	≤8.00	PASS
		2480	-19.61	≤8.00	PASS
BLE_2M	Ant1	2402	-20.98	≤8.00	PASS
		2440	-21.56	≤8.00	PASS
		2480	-22.21	≤8.00	PASS

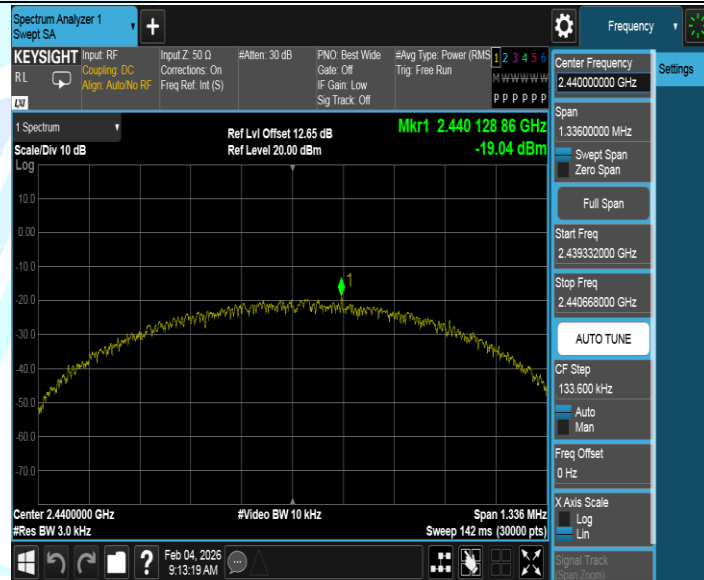


Test Graphs

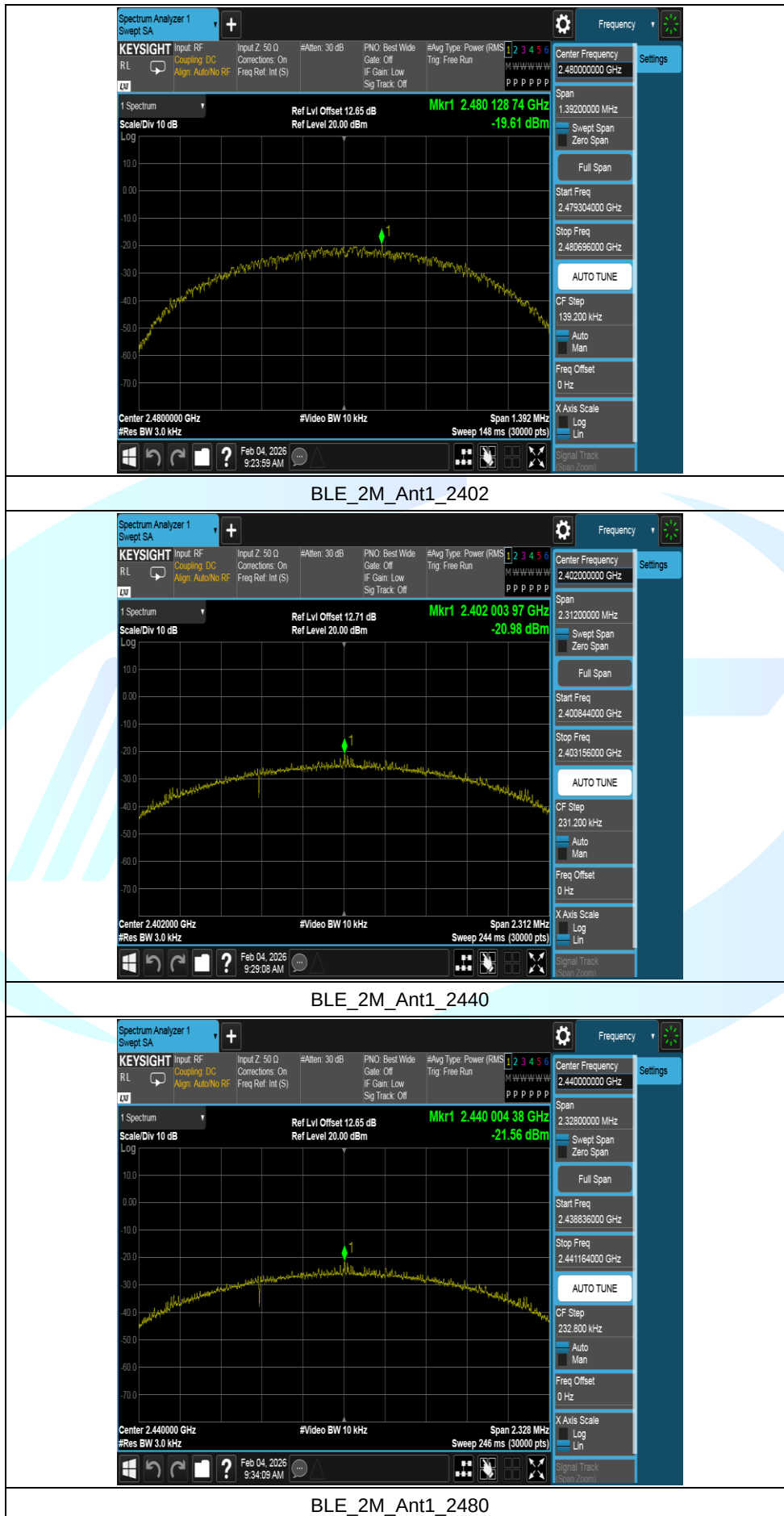
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





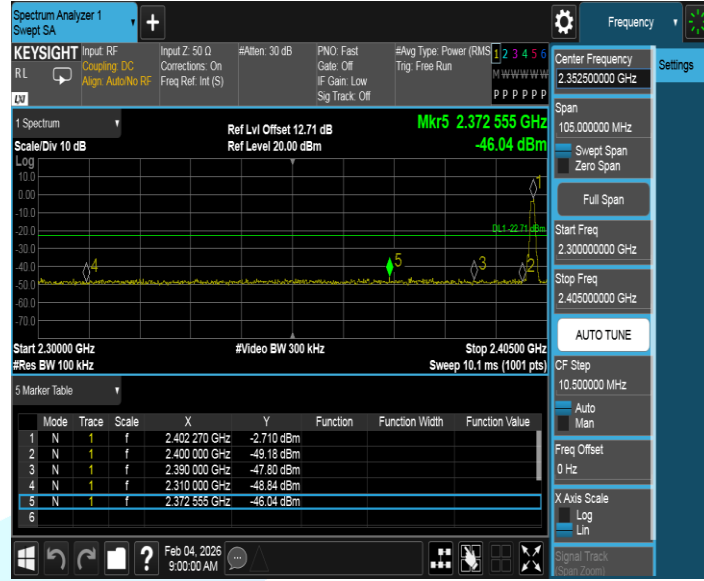
Band-edge Emission

Test Mode	Antenna	Ch Name	Frequency (MHz)	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.71	-46.04	≤ -22.71	PASS
		High	2480	-3.84	-38.58	≤ -23.84	PASS
BLE_2M	Ant1	Low	2402	-3.14	-34.83	≤ -23.14	PASS
		High	2480	-4.36	-45.49	≤ -24.36	PASS

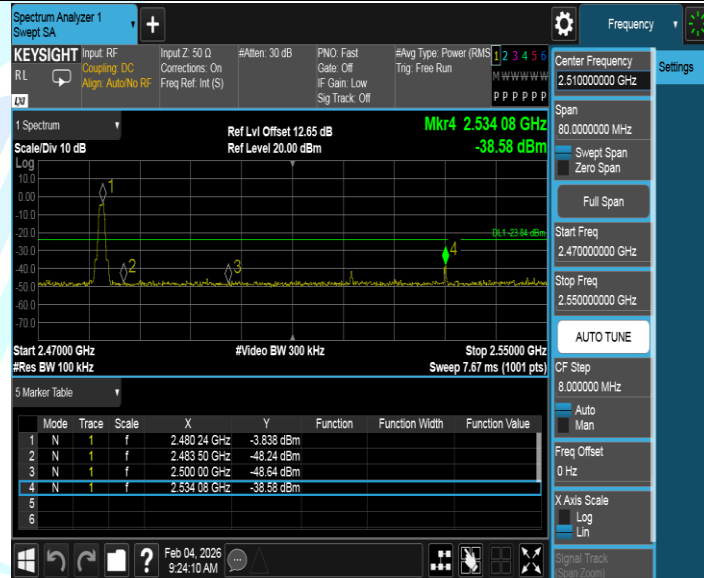


Test Graphs

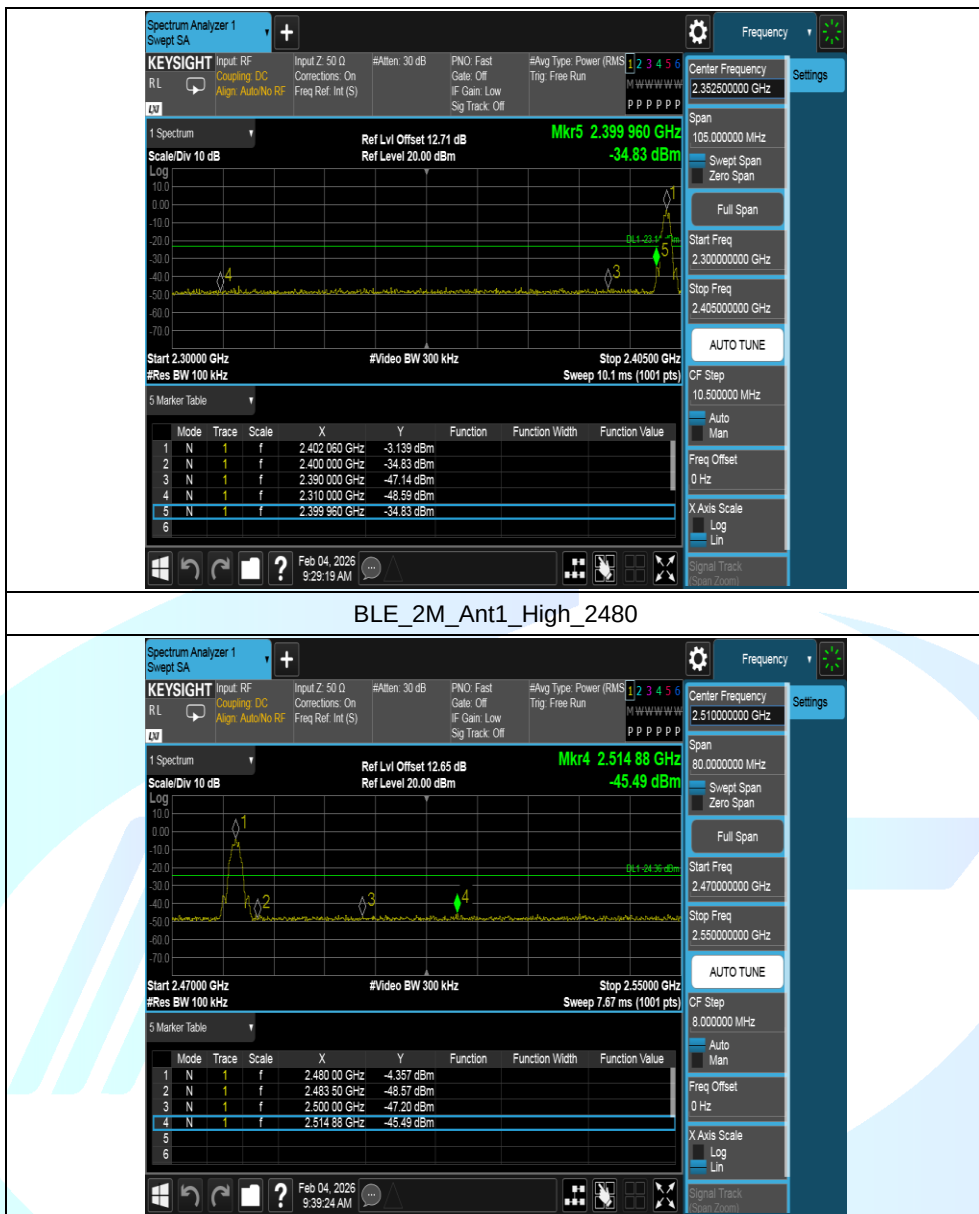
BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402



Conducted Spurious Emission

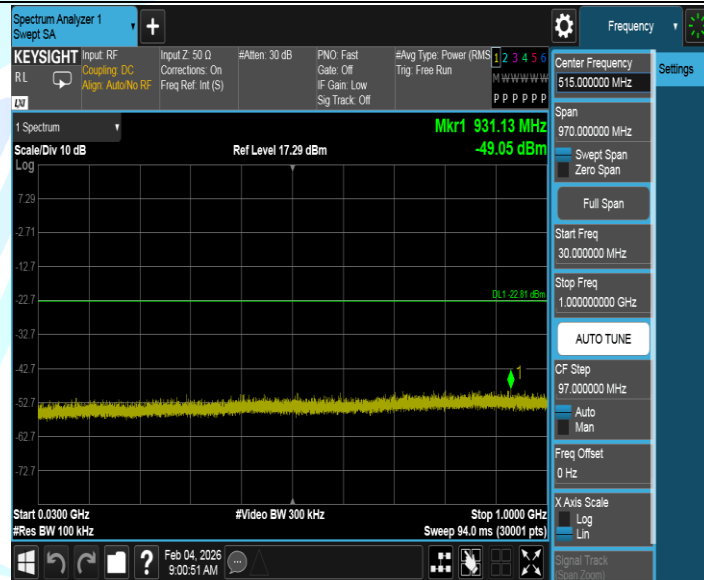
Test Mode	Antenna	Frequency (MHz)	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.81	-2.81	---	PASS
			30~1000	-2.81	-49.05	≤ -22.81	PASS
			1000~26500	-2.81	-33.05	≤ -22.81	PASS
		2440	Reference	-3.51	-3.51	---	PASS
			30~1000	-3.51	-48.73	≤ -23.51	PASS
			1000~26500	-3.51	-28.4	≤ -23.51	PASS
		2480	Reference	-3.97	-3.97	---	PASS
			30~1000	-3.97	-48.48	≤ -23.97	PASS
			1000~26500	-3.97	-25.37	≤ -23.97	PASS
BLE_2M	Ant1	2402	Reference	-3.16	-3.16	---	PASS
			30~1000	-3.16	-48.66	≤ -23.16	PASS
			1000~26500	-3.16	-27.17	≤ -23.16	PASS
		2440	Reference	-3.76	-3.76	---	PASS
			30~1000	-3.76	-48.49	≤ -23.76	PASS
			1000~26500	-3.76	-33	≤ -23.76	PASS
		2480	Reference	-4.32	-4.32	---	PASS
			30~1000	-4.32	-47.9	≤ -24.32	PASS
			1000~26500	-4.32	-32.61	≤ -24.32	PASS

Test Graphs

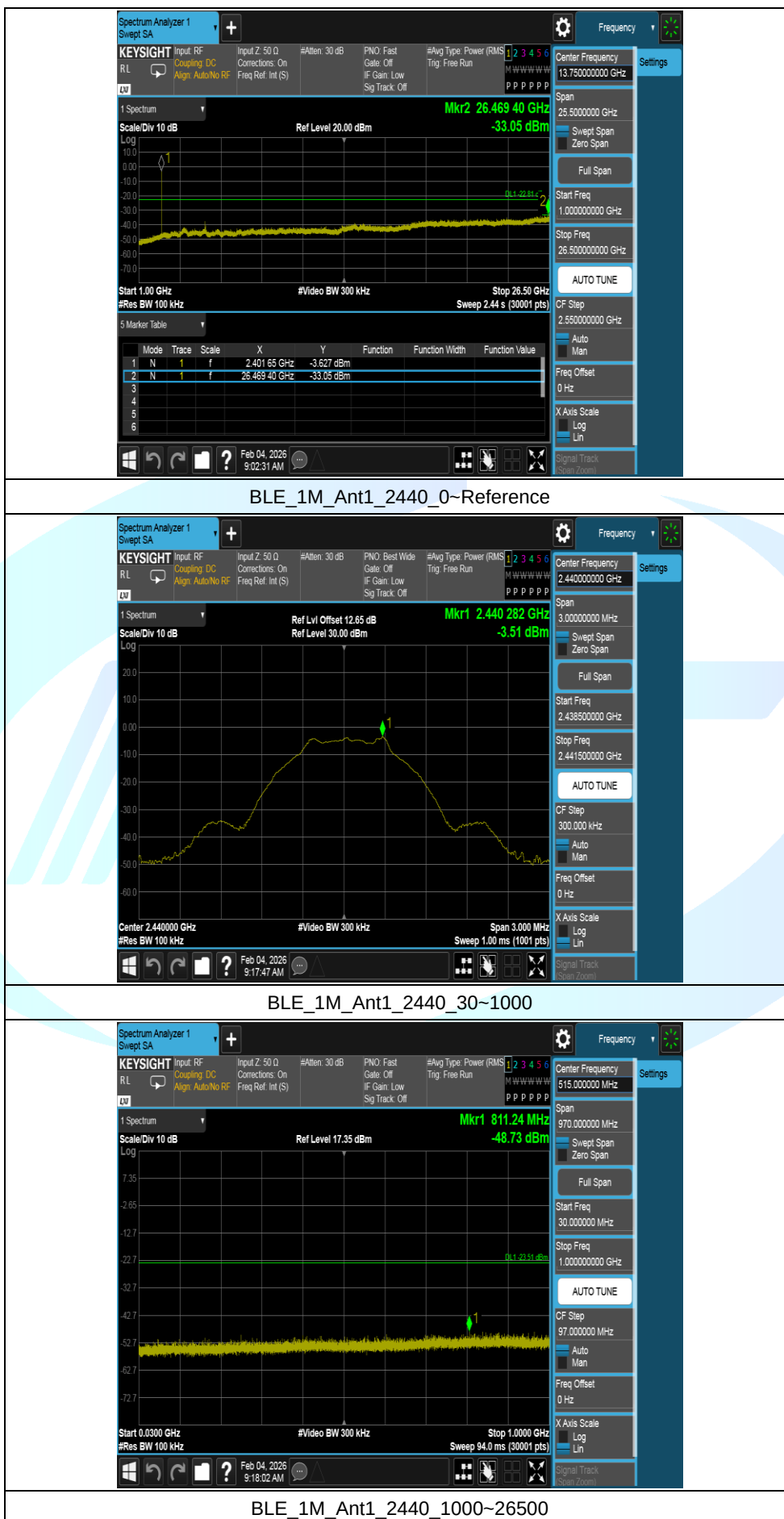
BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500





BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



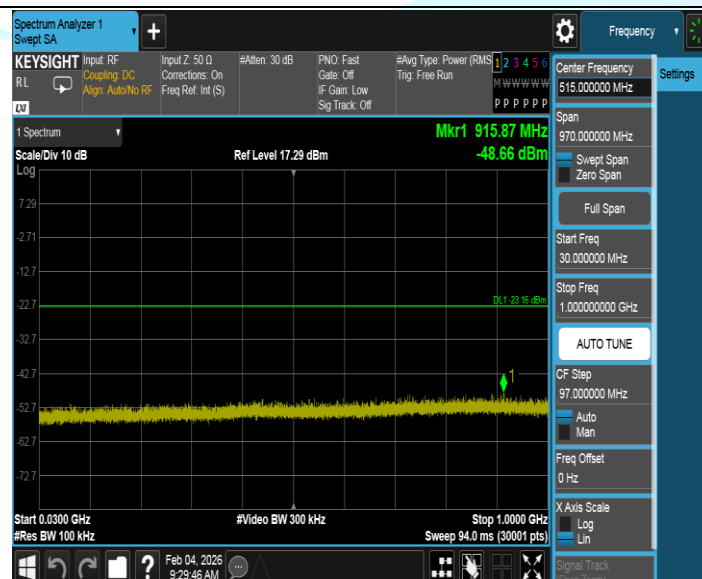
BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500

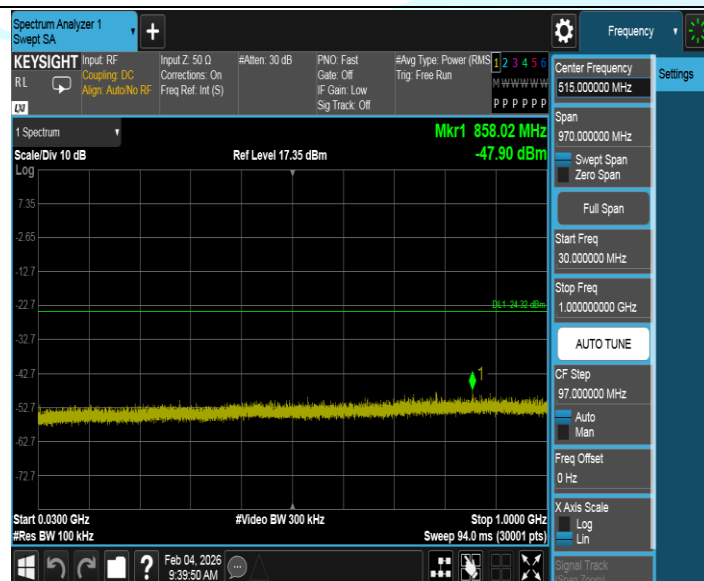




BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500

