



Appendix A

RF Test Data for BLE (Conducted Measurement)

Product Name: Gamepad

Test Model: MOCUTE-060

Environmental Conditions

Temperature:	22.8° C
Relative Humidity:	53.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Bill Zhu
Supervised by:	Li Huan

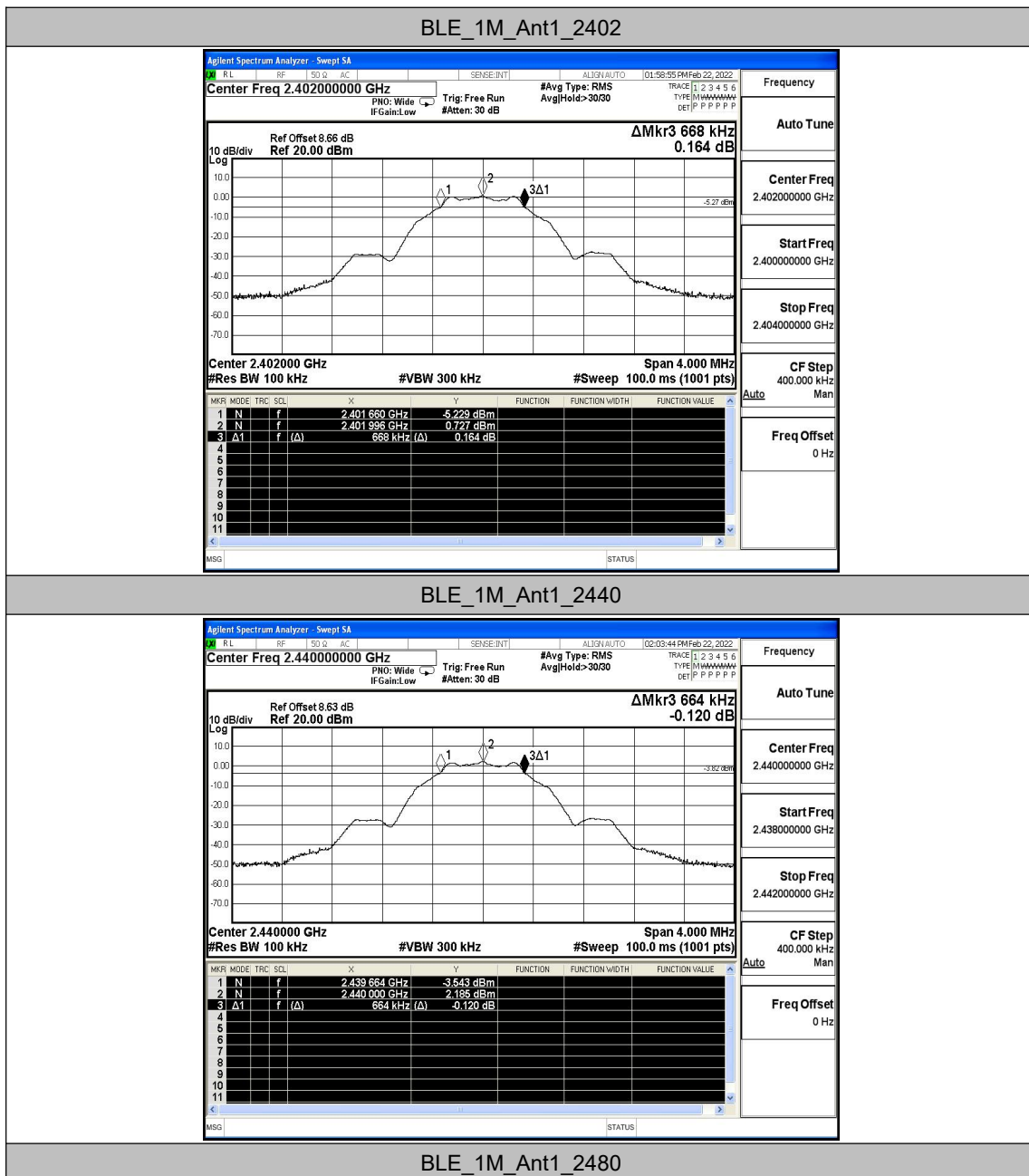


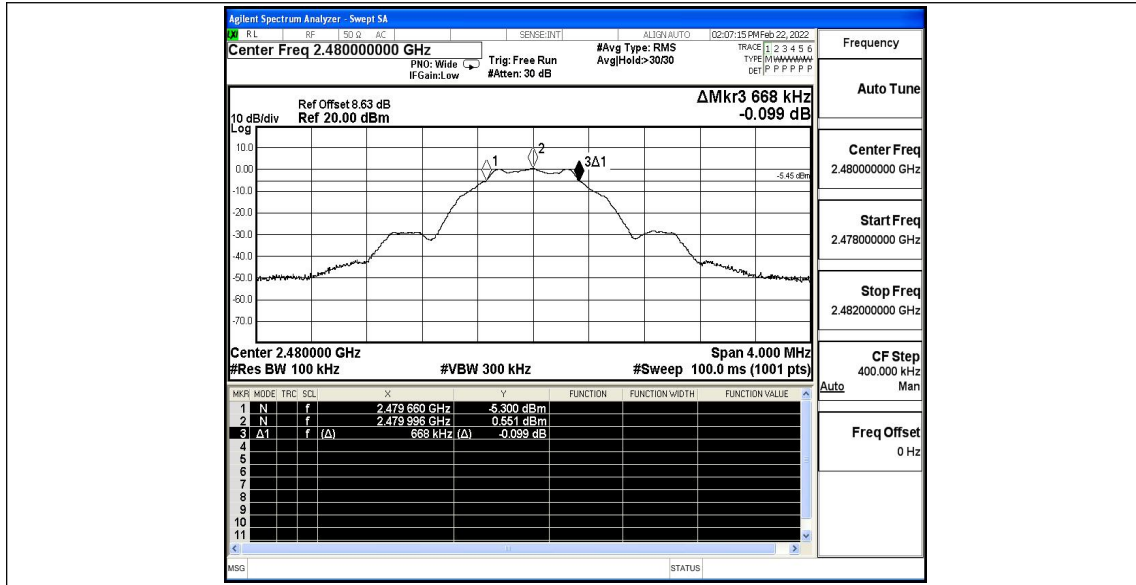
A.1 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.660	2402.328	0.5	PASS
		2440	0.664	2439.664	2440.328	0.5	PASS
		2480	0.668	2479.660	2480.328	0.5	PASS

Test Graphs





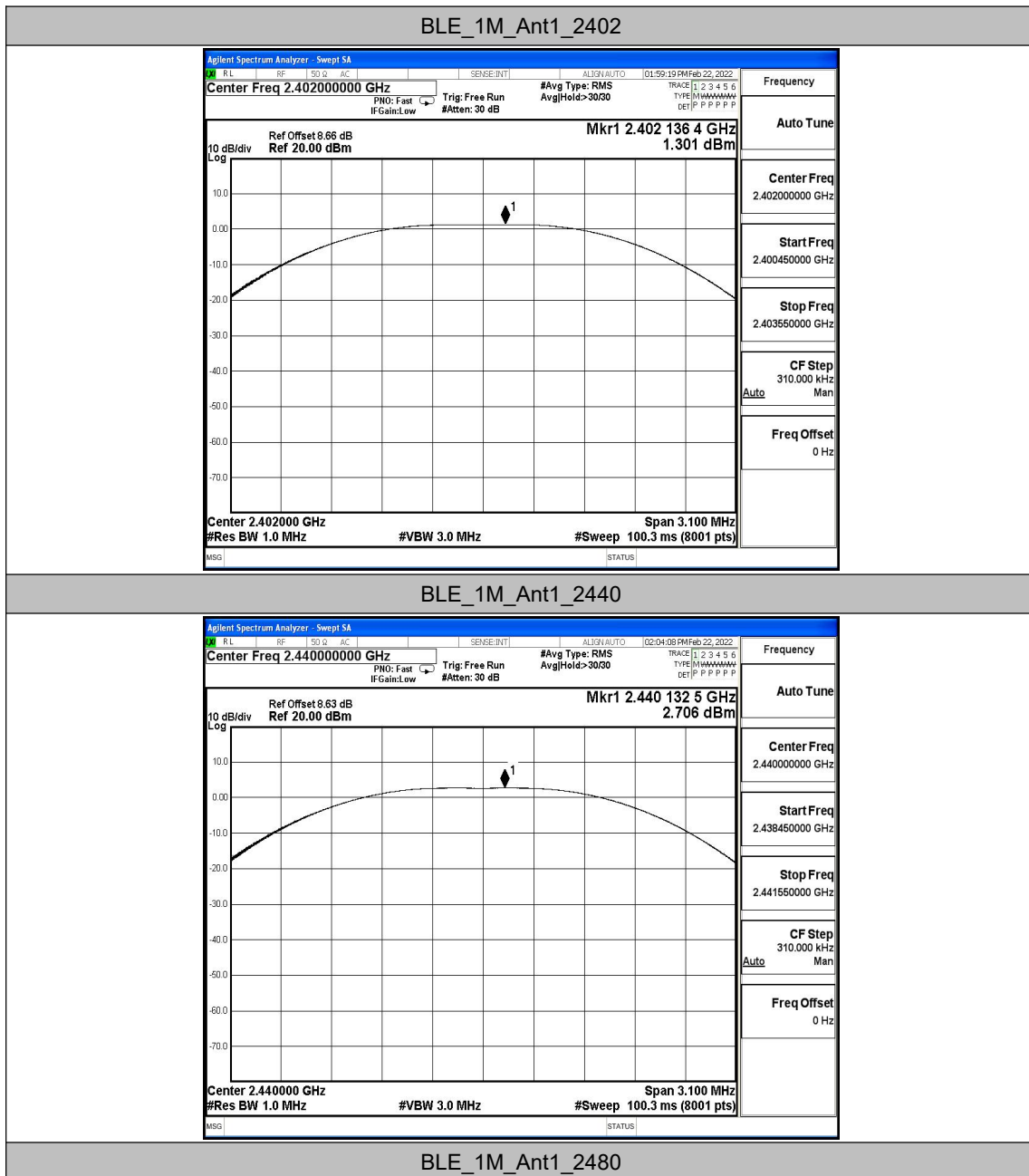


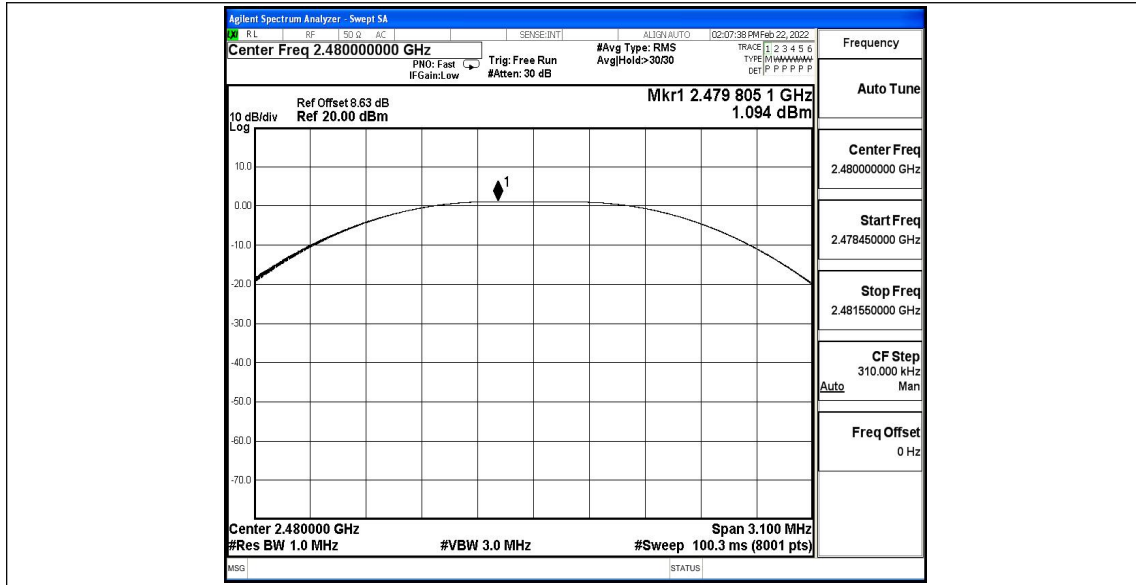
A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.3	≤30	PASS
		2440	2.71	≤30	PASS
		2480	1.09	≤30	PASS

Test Graphs





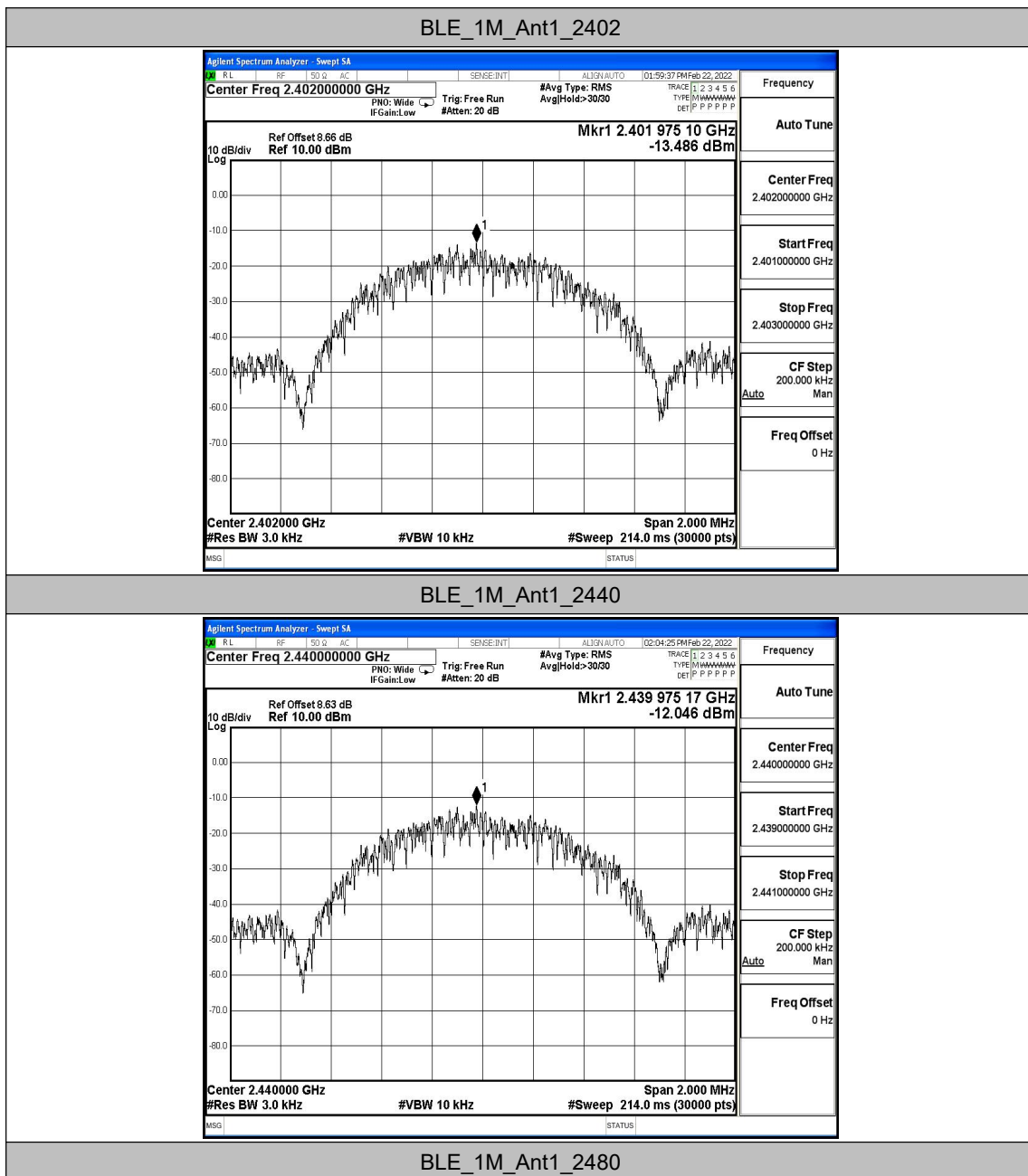


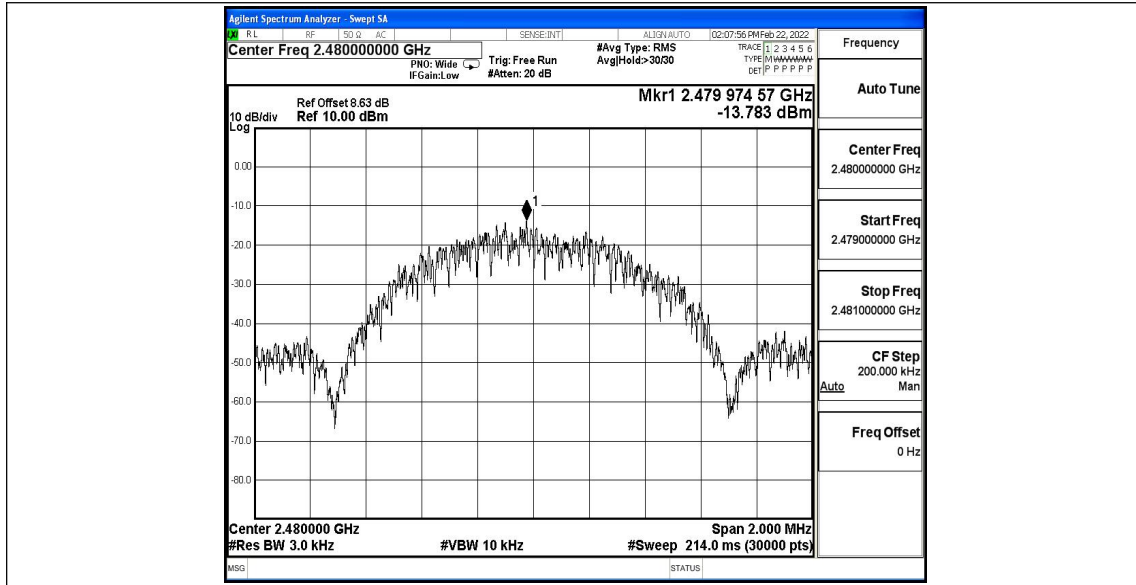
A.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.49	≤8.00	PASS
		2440	-12.05	≤8.00	PASS
		2480	-13.78	≤8.00	PASS

Test Graphs





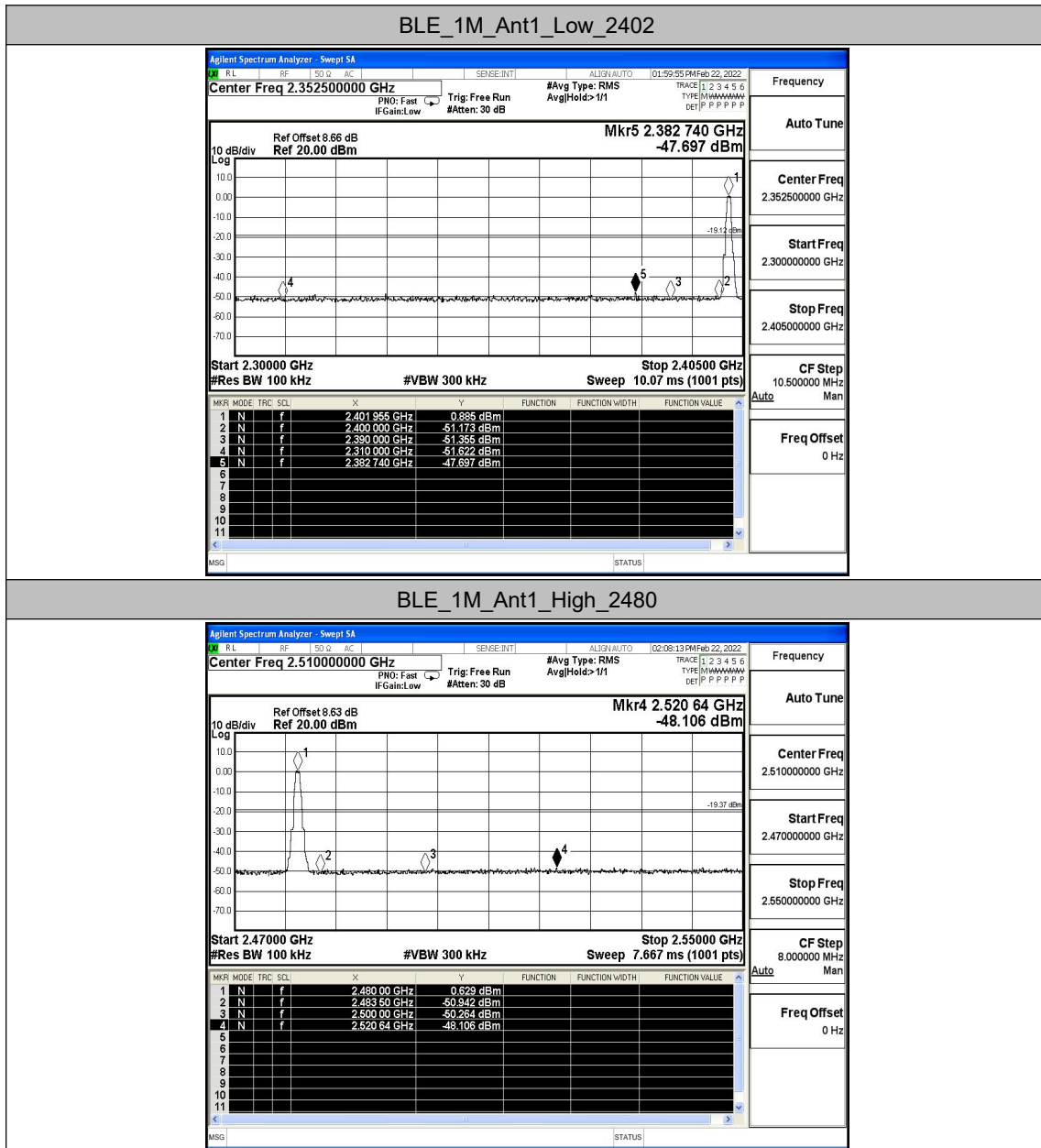


A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.89	-47.7	≤-19.12	PASS
		High	2480	0.63	-48.11	≤-19.37	PASS

Test Graphs



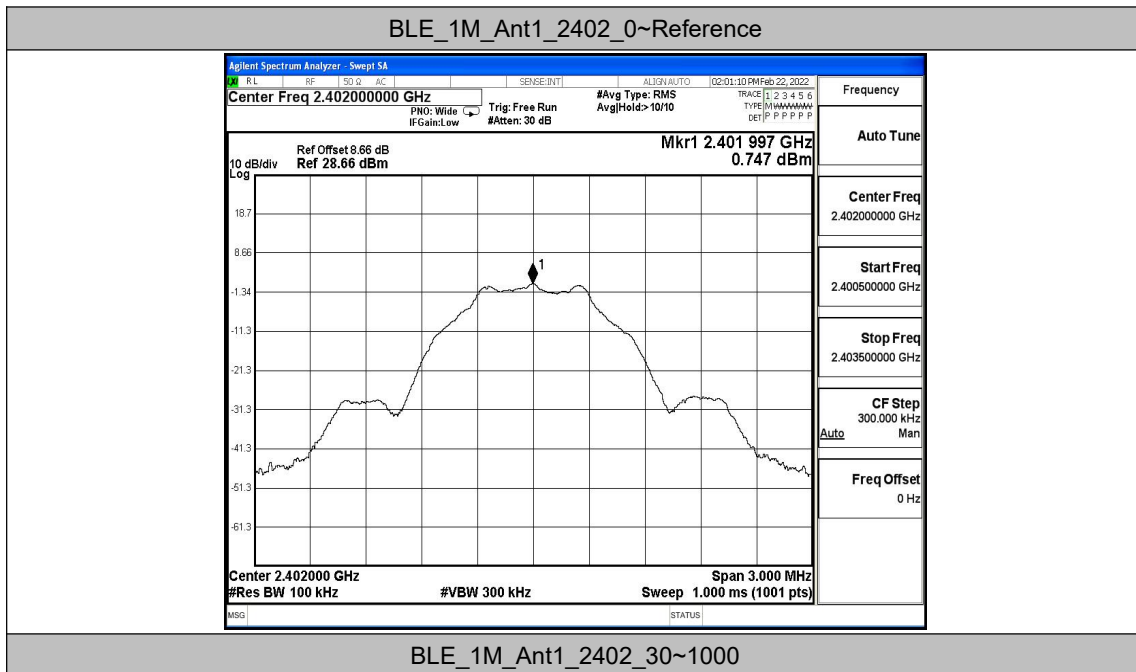


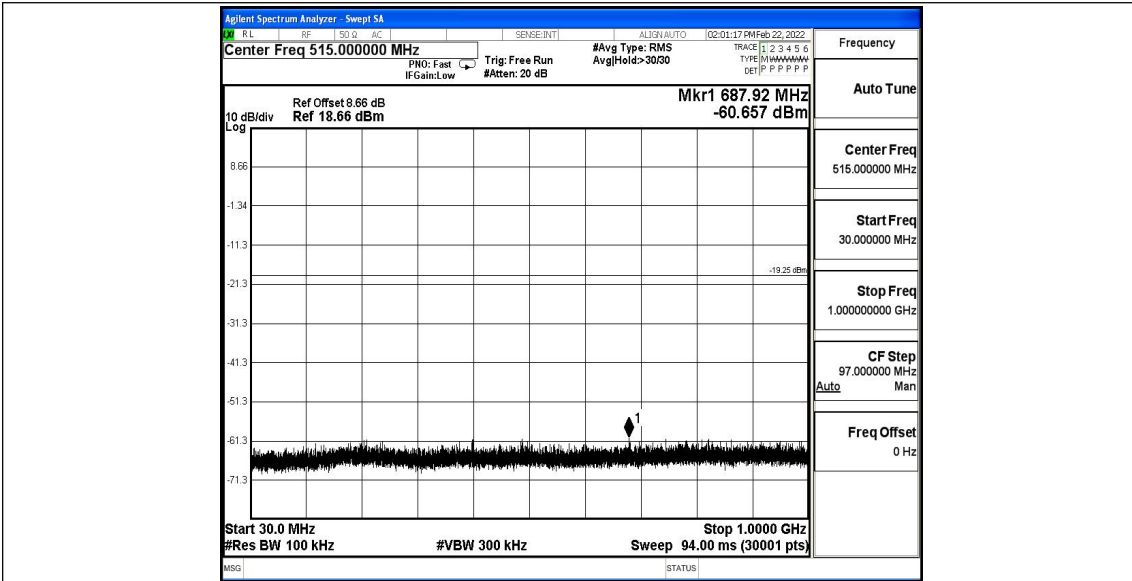
A.5 Conducted Spurious Emission

Test Result

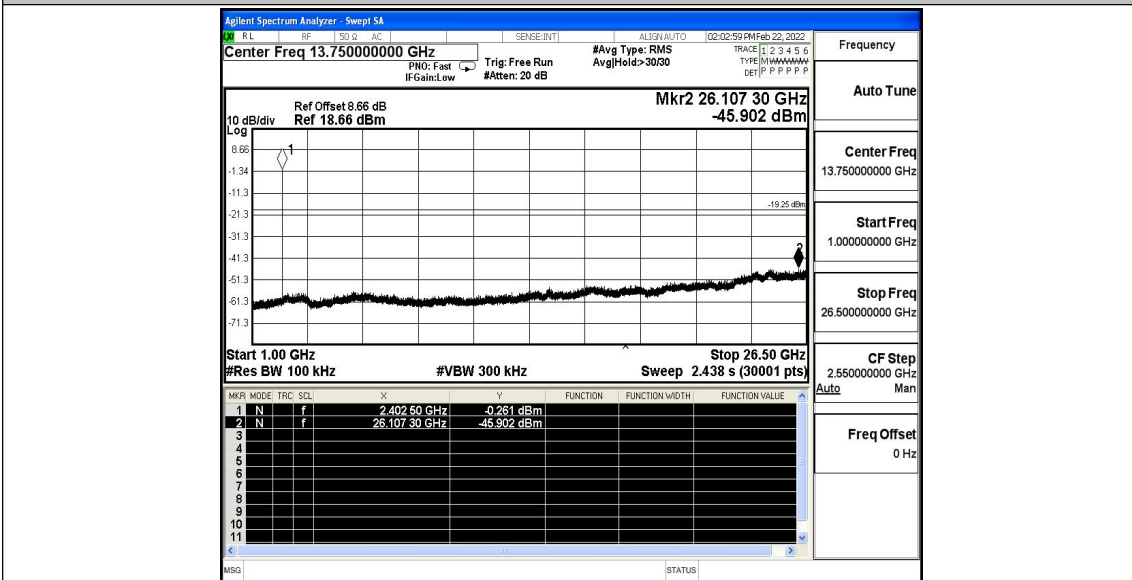
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.75	0.75	---	PASS
			30~1000	0.75	-60.66	≤-19.25	PASS
			1000~26500	0.75	-45.9	≤-19.25	PASS
		2440	Reference	2.20	2.20	---	PASS
			30~1000	2.20	-61.04	≤-17.8	PASS
			1000~26500	2.20	-45.6	≤-17.8	PASS
		2480	Reference	0.59	0.59	---	PASS
			30~1000	0.59	-60.96	≤-19.41	PASS
			1000~26500	0.59	-46.61	≤-19.41	PASS

Test Graphs

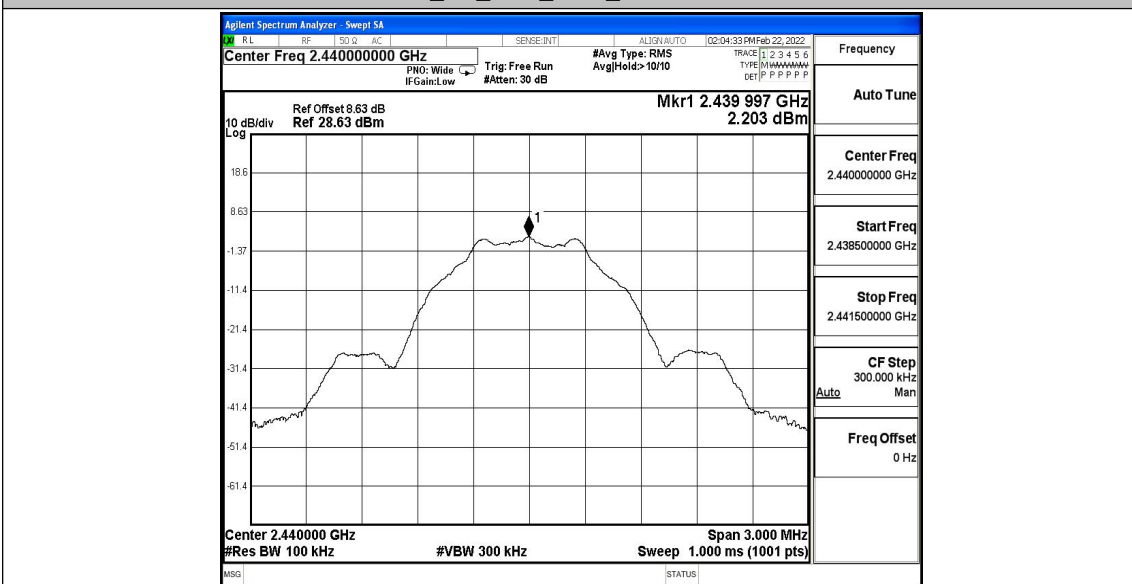




BLE_1M_Ant1_2402_1000~26500

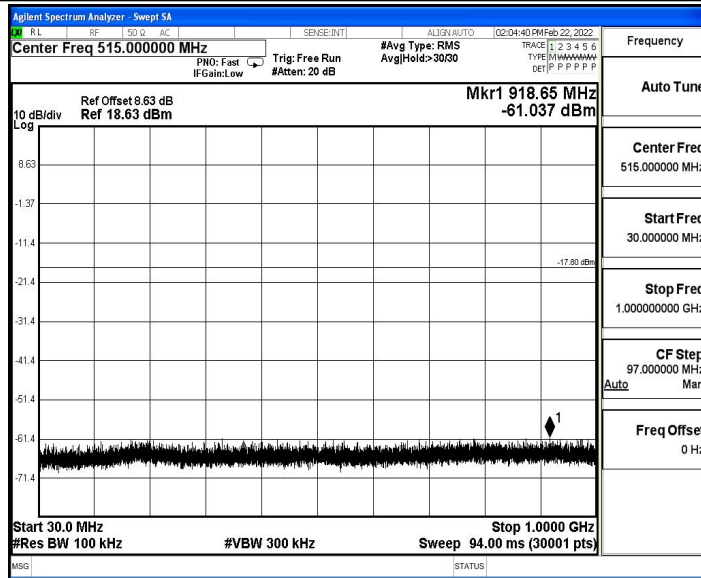


BLE_1M_Ant1_2440_0~Reference

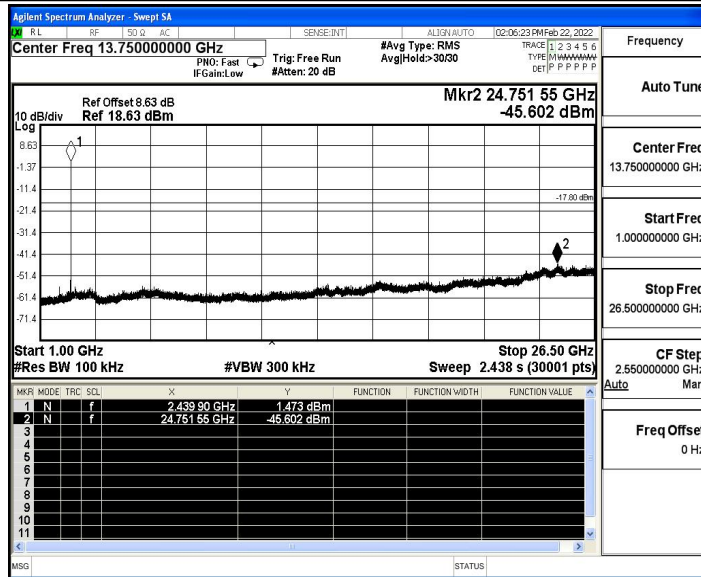




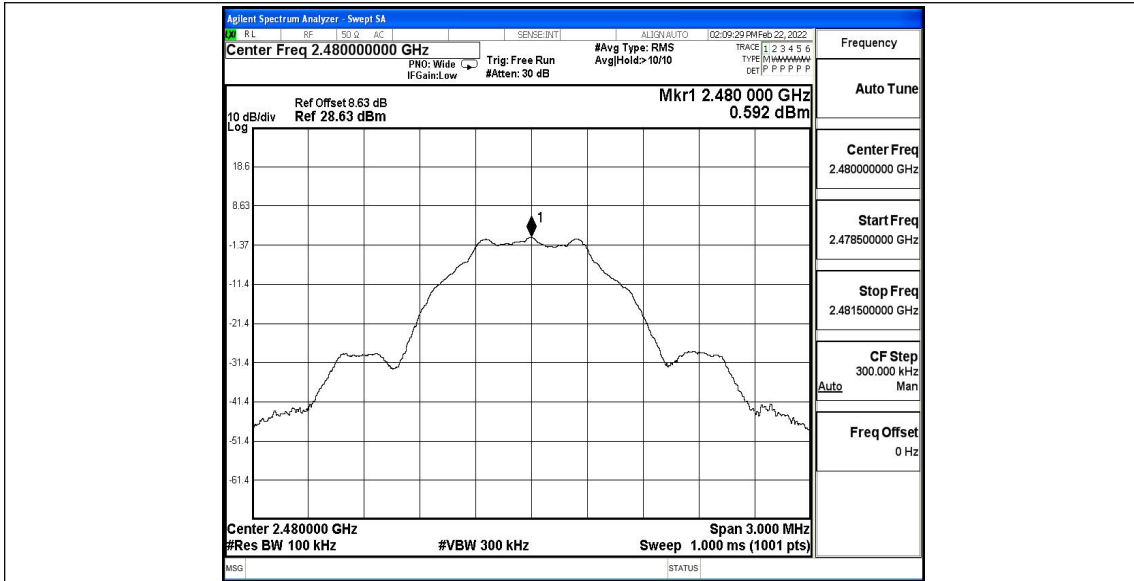
BLE_1M_Ant1_2440_30~1000



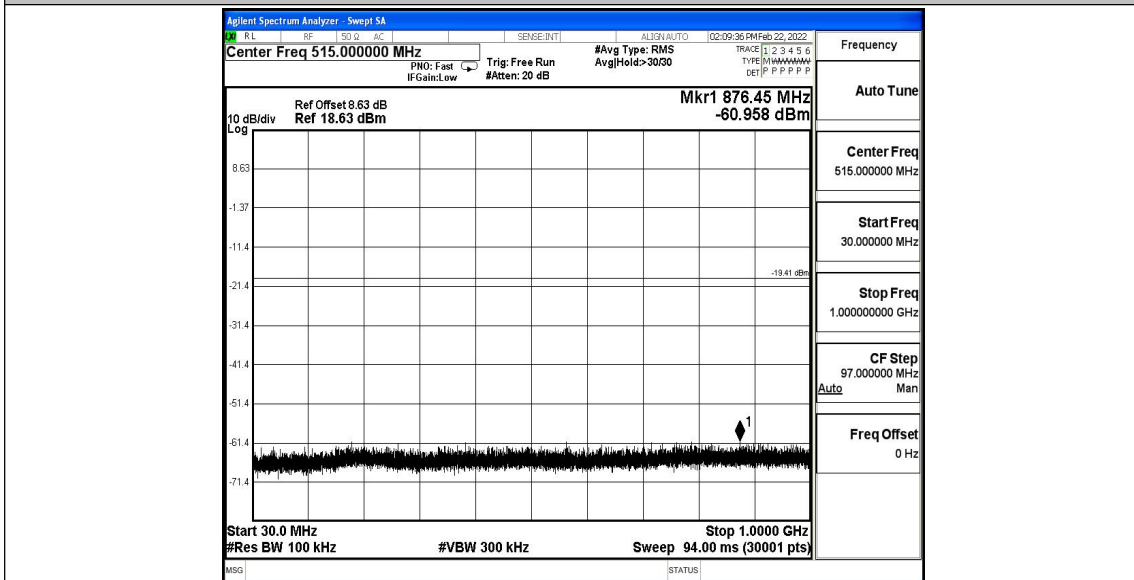
BLE_1M_Ant1_2440_1000~26500



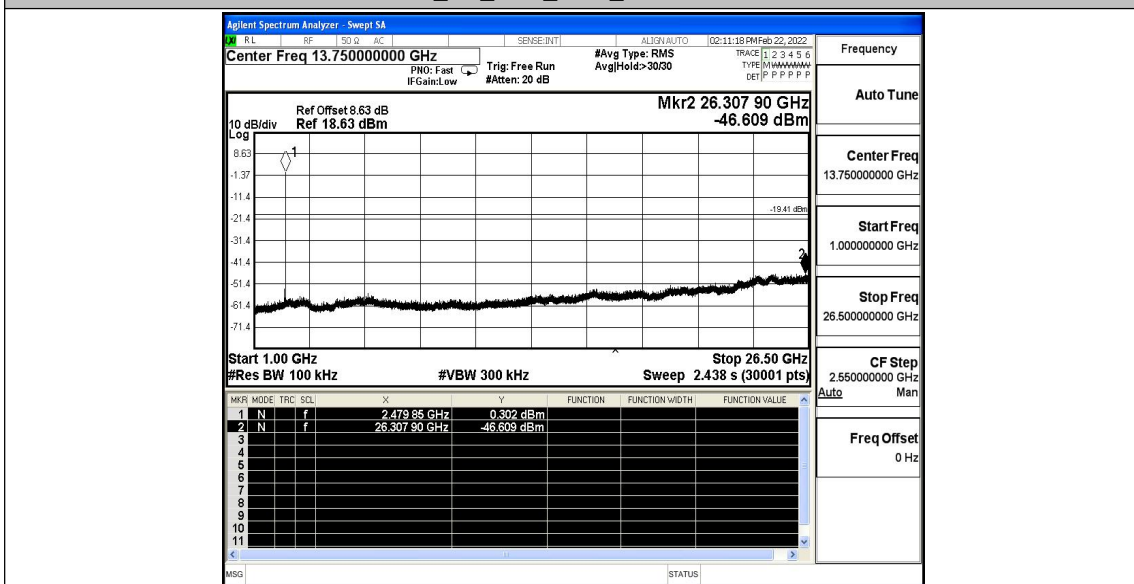
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~100



BLE_1M_Ant1_2480_1000~26500



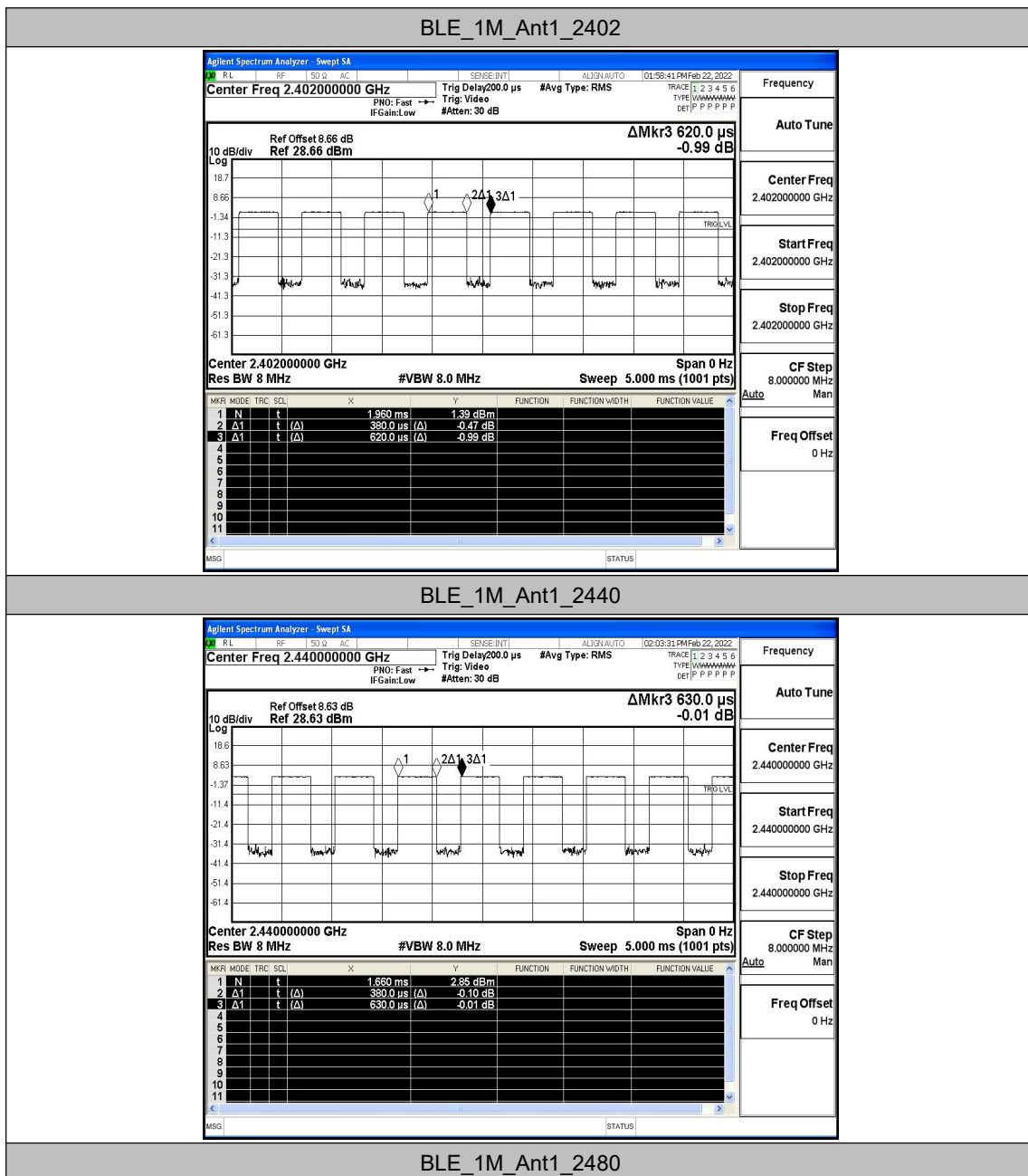


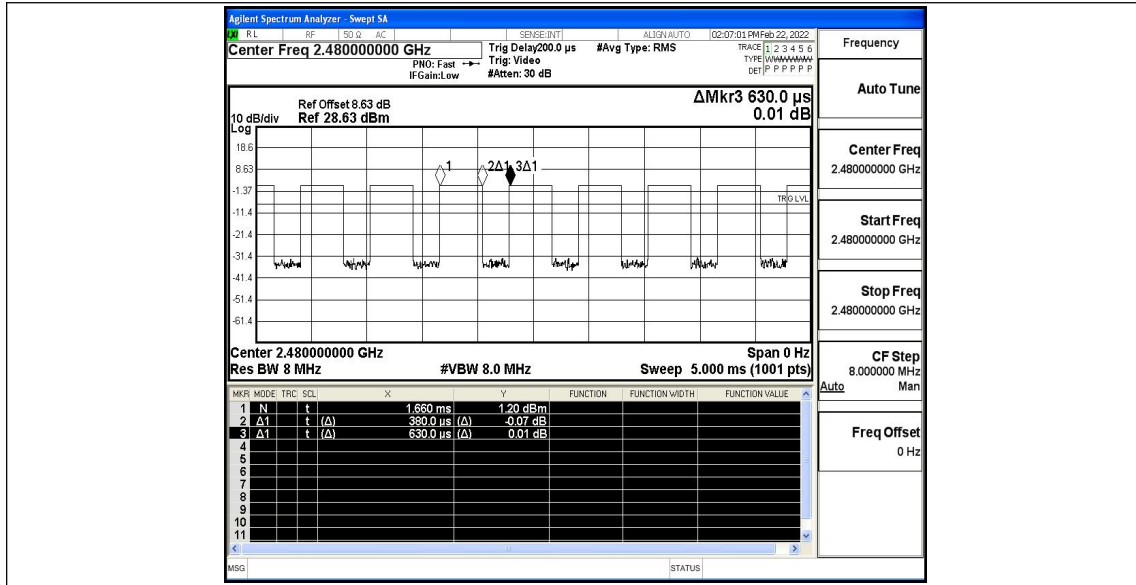
A.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Minimum VBW(KHz)	Limit	Verdict
BLE_1M	Ant1	2402	0.38	0.62	0.6129	61.29	2.13	2.63	---	---
		2440	0.38	0.63	0.6032	60.32	2.20	2.63	---	---
		2480	0.38	0.63	0.6032	60.32	2.20	2.63	---	---

Test Graphs







A.7 Emissions in Restricted Bands

Test Result

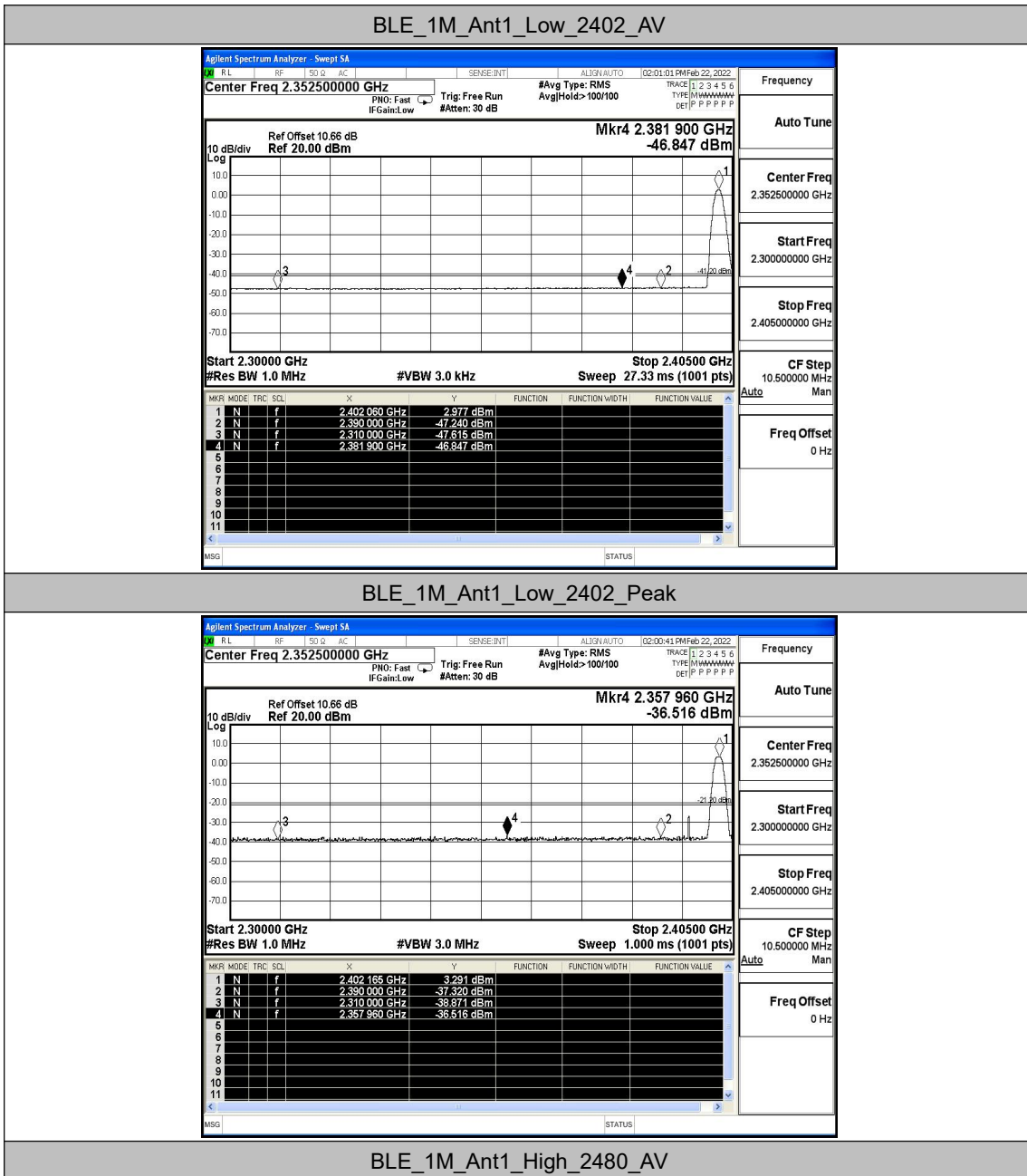
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-47.62	≤-41.20	47.58	≤54	PASS
				AV	2381.900	-46.85	≤-41.20	48.35	≤54	PASS
				AV	2390.000	-47.24	≤-41.20	47.96	≤54	PASS
				Peak	2310.000	-39	≤-21.20	56.20	≤74	PASS
				Peak	2357.960	-36.52	≤-21.20	58.68	≤74	PASS
				Peak	2390.000	-37.32	≤-21.20	57.88	≤74	PASS
		High	2480	AV	2483.500	-46.13	≤-41.20	49.07	≤54	PASS
				AV	2483.520	-46.13	≤-41.20	49.07	≤54	PASS
				AV	2500.000	-46.68	≤-41.20	48.52	≤54	PASS
				Peak	2483.500	-38.21	≤-21.20	56.99	≤74	PASS
				Peak	2485.120	-24.27	≤-21.20	70.93	≤74	PASS
				Peak	2500.000	-38.71	≤-21.20	56.49	≤74	PASS

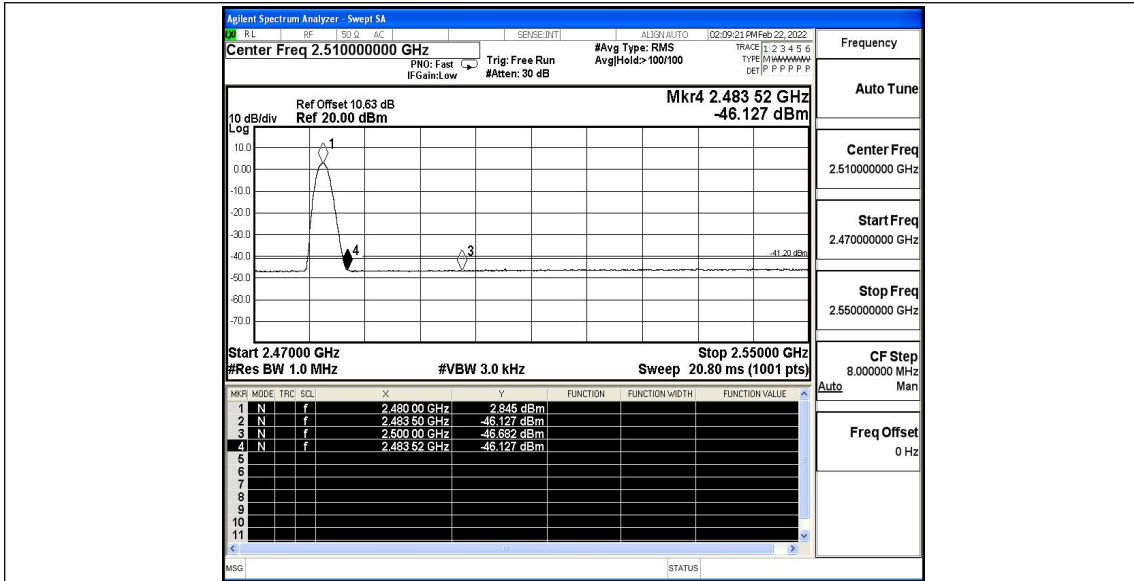
Note:

1. The Antenna Gain is compensated in the graph.
2. 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

