



Appendix B

RF Test Data for BLE (Conducted Measurement)

Product Name: Tablet

Test Model: 8WB1

Environmental Conditions

Temperature:	23.7° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling. Zhu
Supervised by:	Lihua



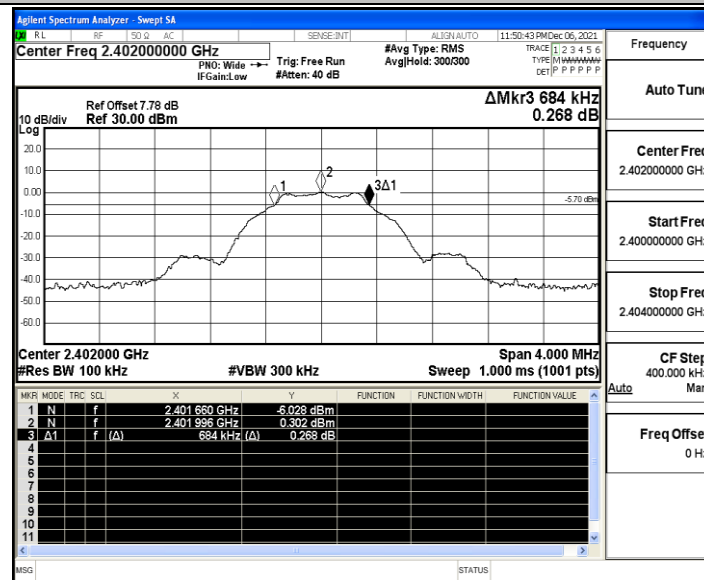
B.1 6dB Bandwidth

Test Result

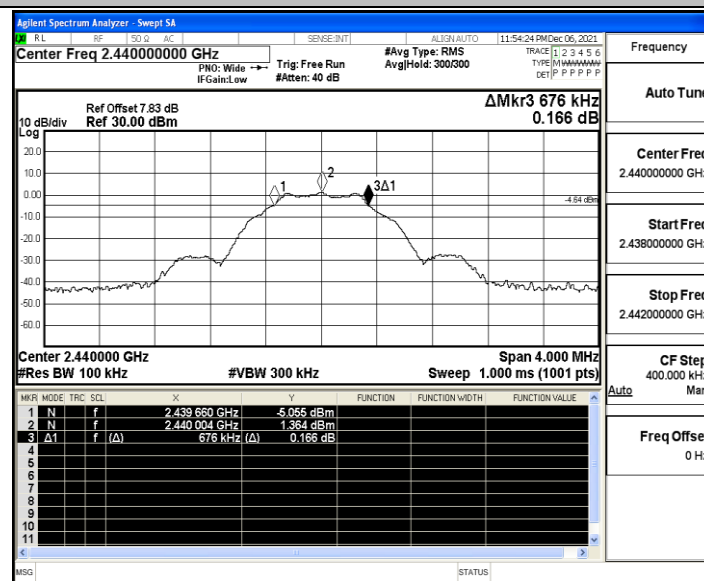
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.684	2401.660	2402.344	≥ 0.5	PASS
		2440	0.676	2439.660	2440.336	≥ 0.5	PASS
		2480	0.680	2479.660	2480.340	≥ 0.5	PASS

Test Graphs

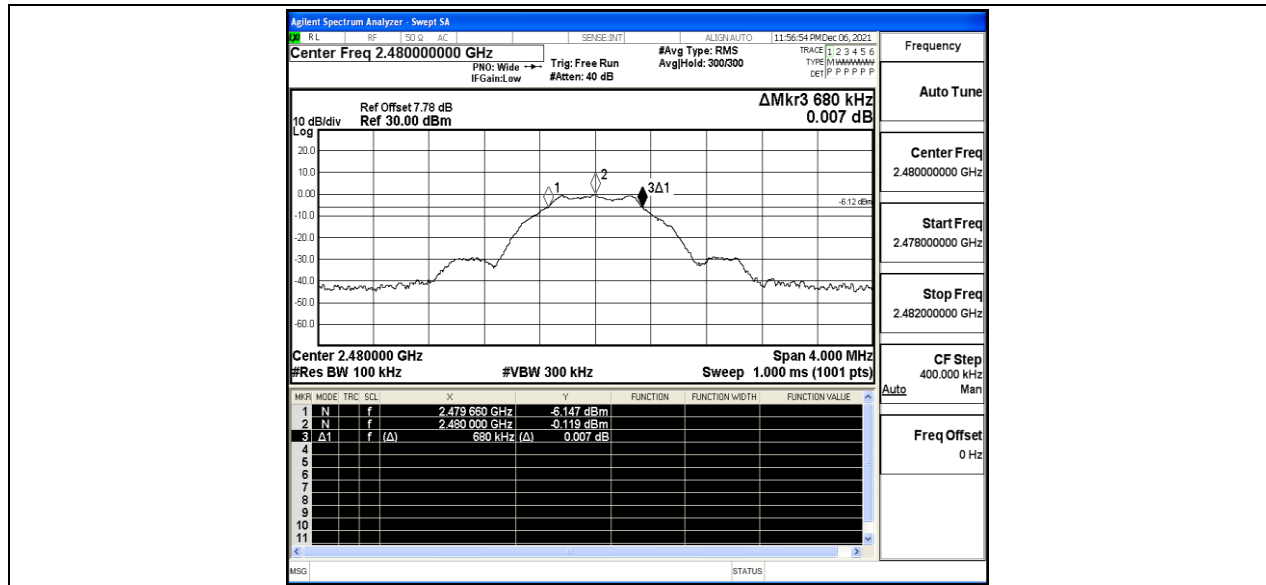
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



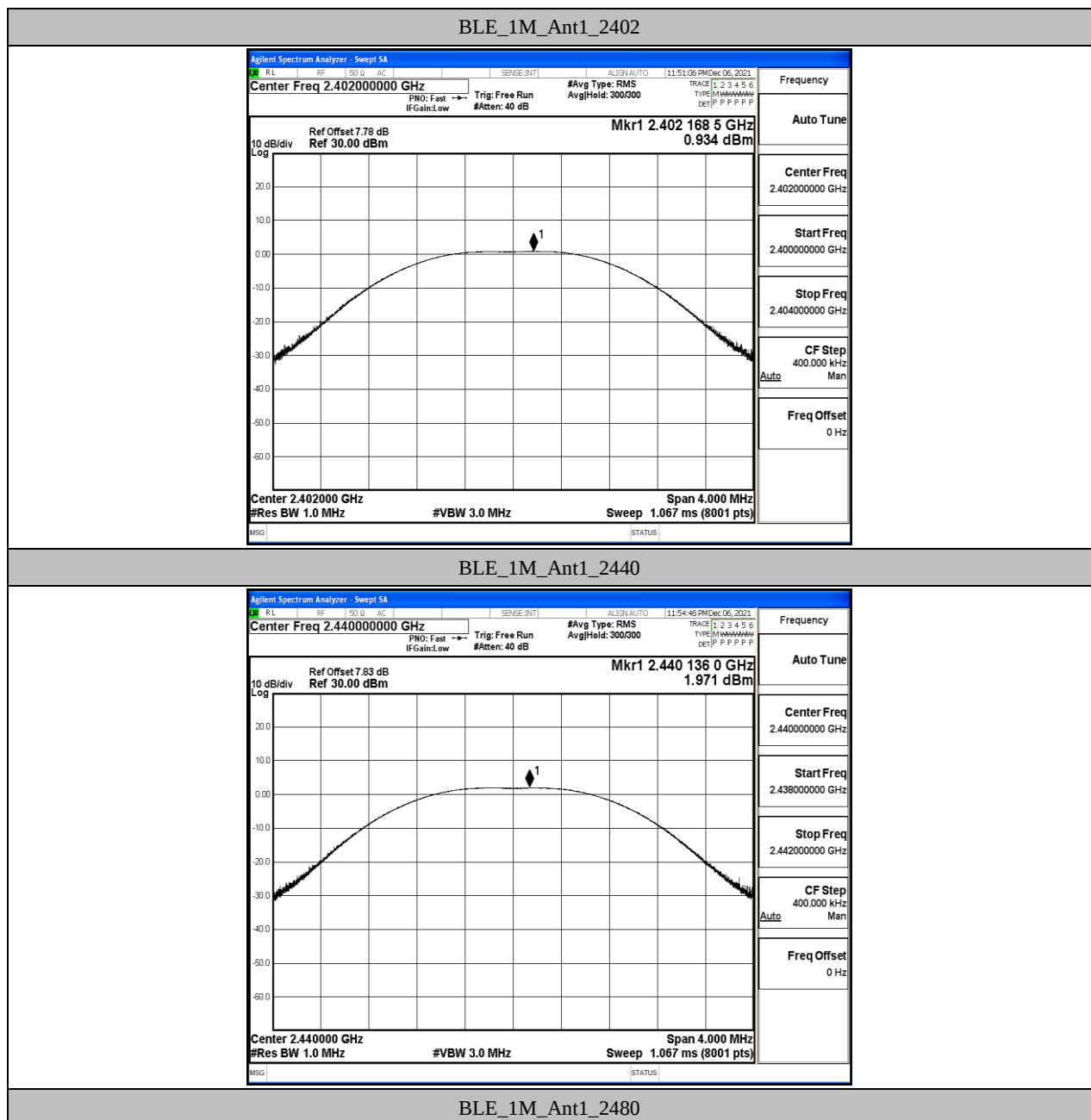


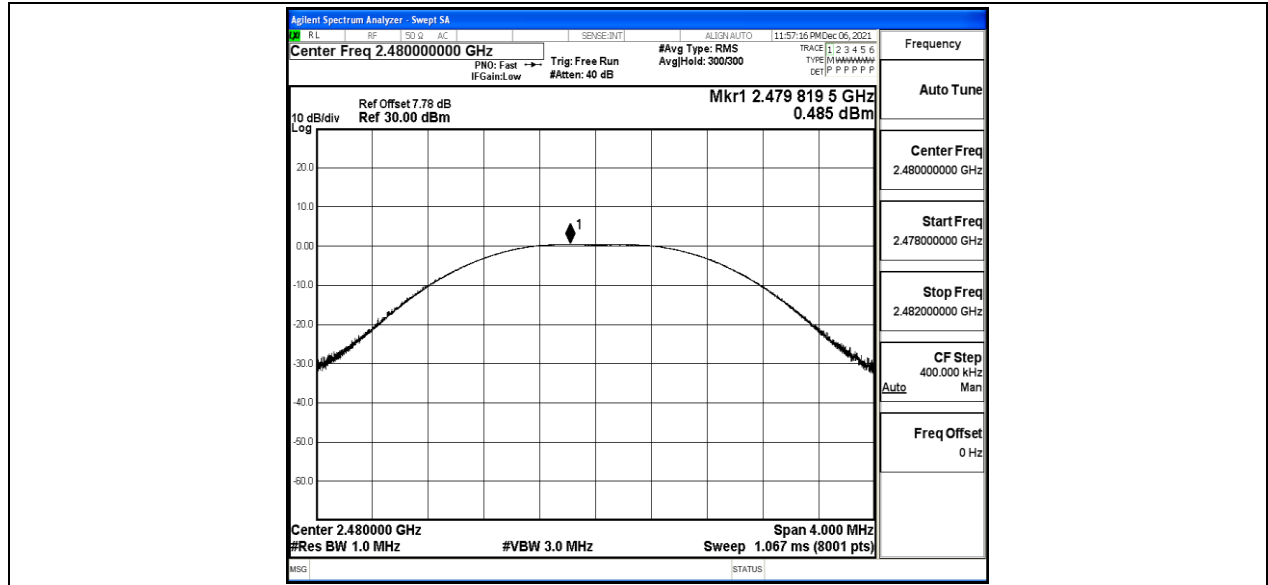
B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.93	≤30	PASS
		2440	1.97	≤30	PASS
		2480	0.49	≤30	PASS

Test Graphs







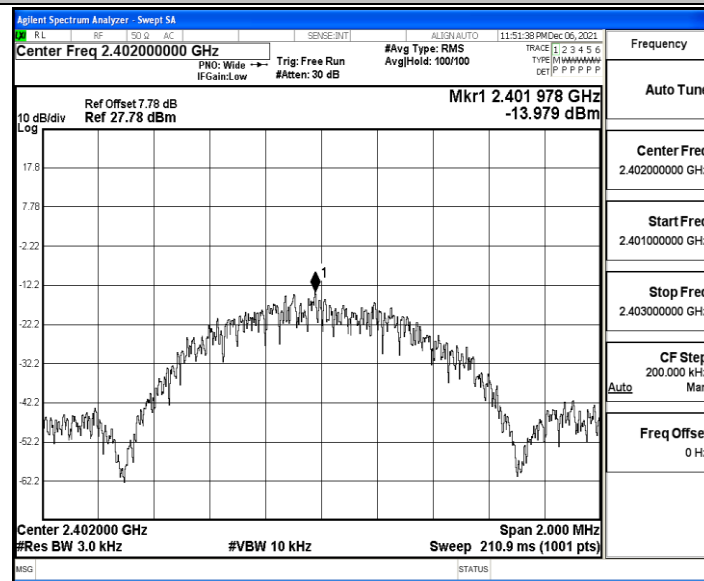
B.3 Maximum power spectral density

Test Result

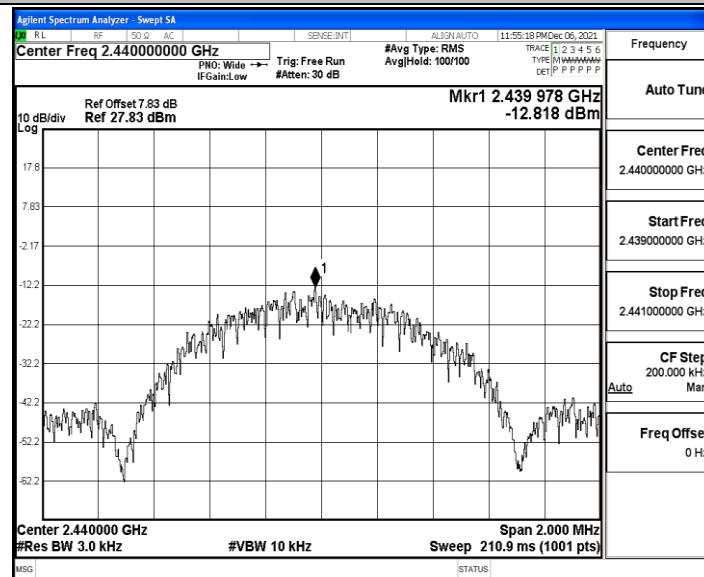
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.98	≤ 8	PASS
		2440	-12.82	≤ 8	PASS
		2480	-14.31	≤ 8	PASS

Test Graphs

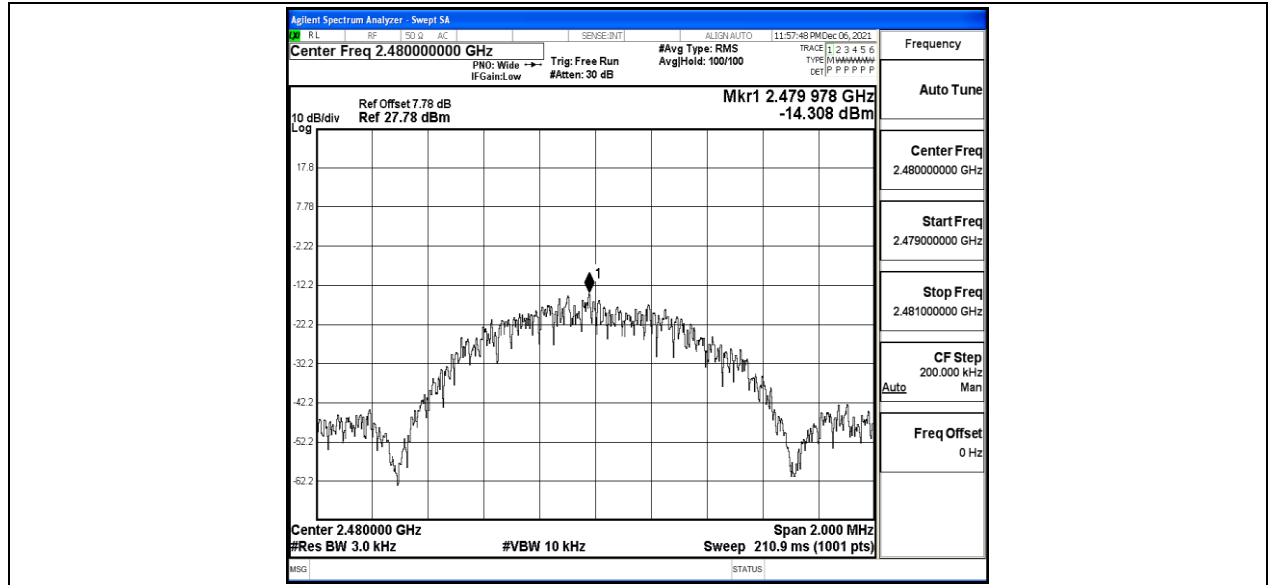
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





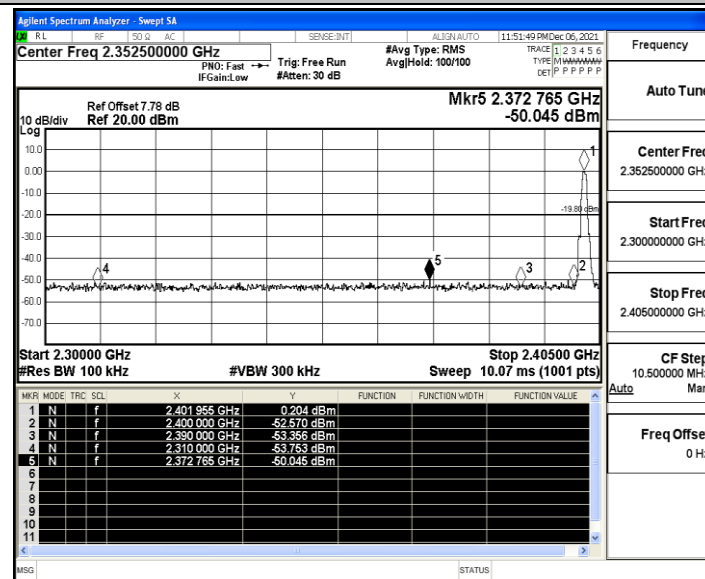
B.4 Band edge measurements

Test Result

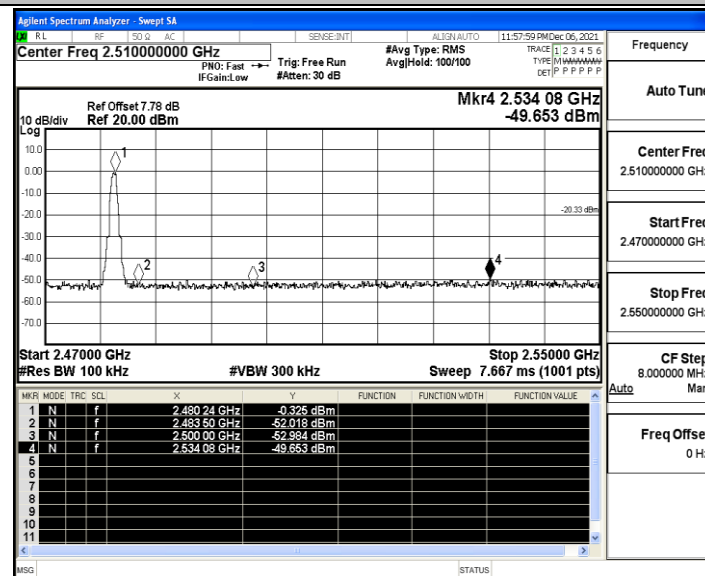
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.20	-50.05	≤-19.8	PASS
		High	2480	-0.33	-49.65	≤-20.33	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



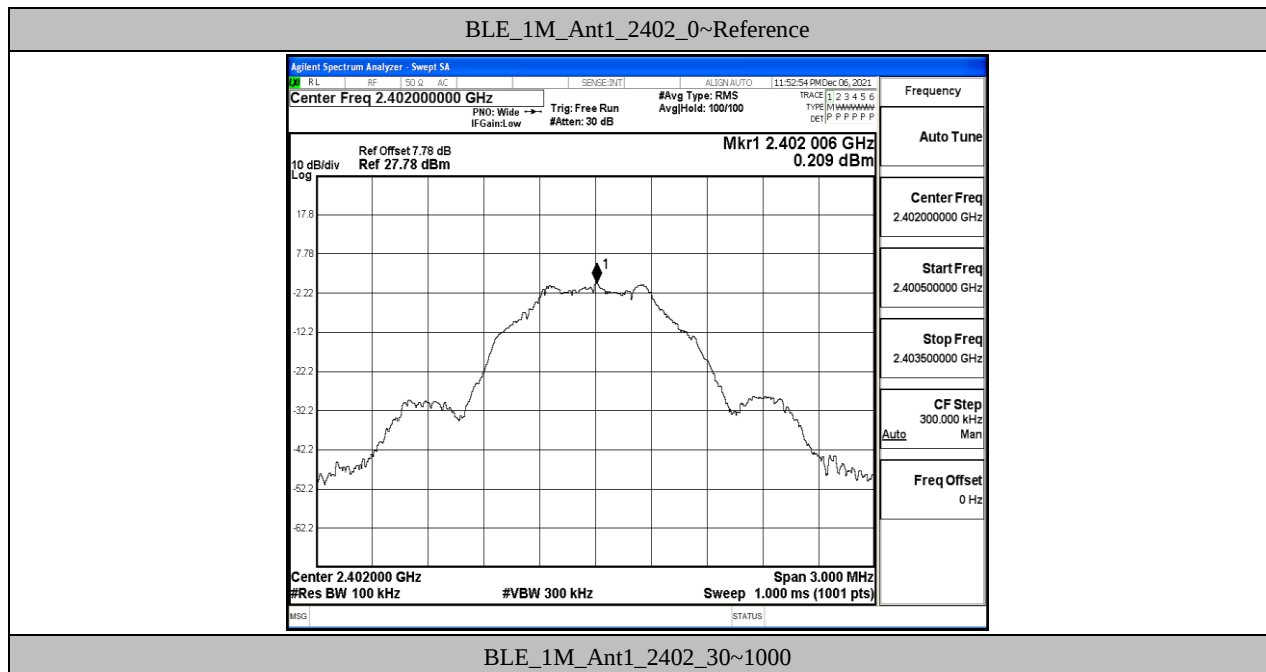


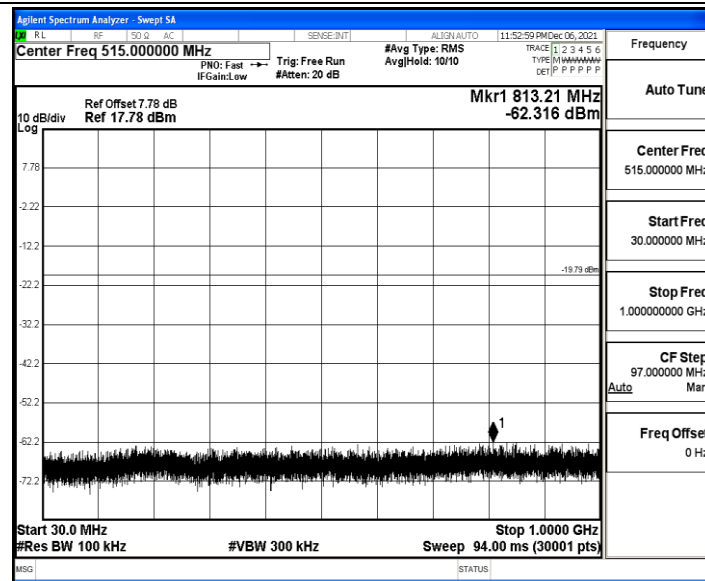
B.5 Conducted Spurious Emission

Test Result

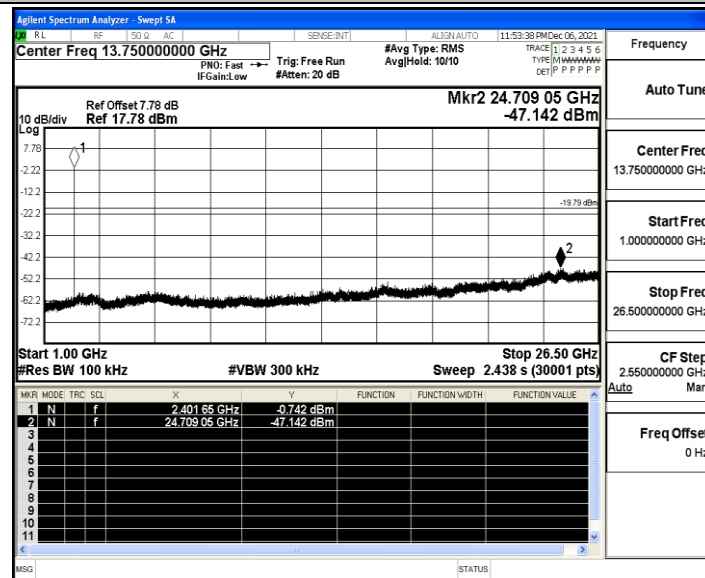
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.21	0.21	---	PASS
			30~1000	0.21	-62.32	≤ -19.79	PASS
			1000~26500	0.21	-47.14	≤ -19.79	PASS
		2440	Reference	0.89	0.89	---	PASS
			30~1000	0.89	-61.45	≤ -19.11	PASS
			1000~26500	0.89	-46.42	≤ -19.11	PASS
		2480	Reference	-0.81	-0.81	---	PASS
			30~1000	-0.81	-61.16	≤ -20.81	PASS
			1000~26500	-0.81	-47.03	≤ -20.81	PASS

Test Graphs

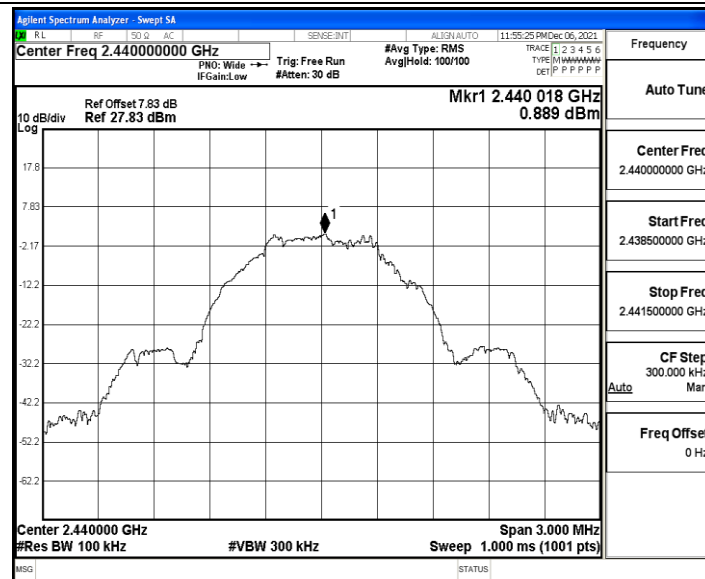




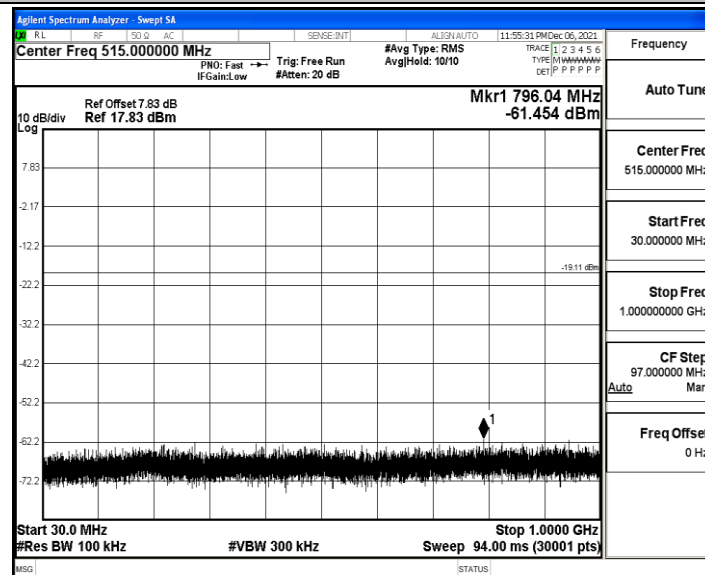
BLE_1M_Ant1_2402_1000~26500



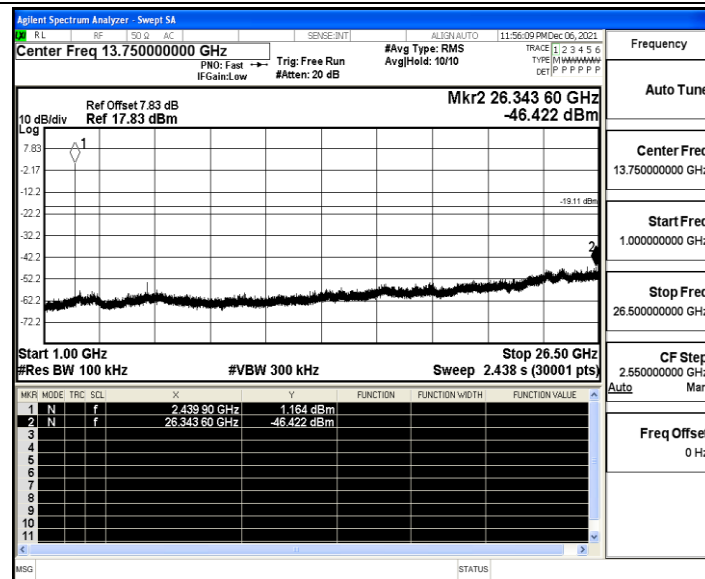
BLE_1M_Ant1_2440_0~Reference



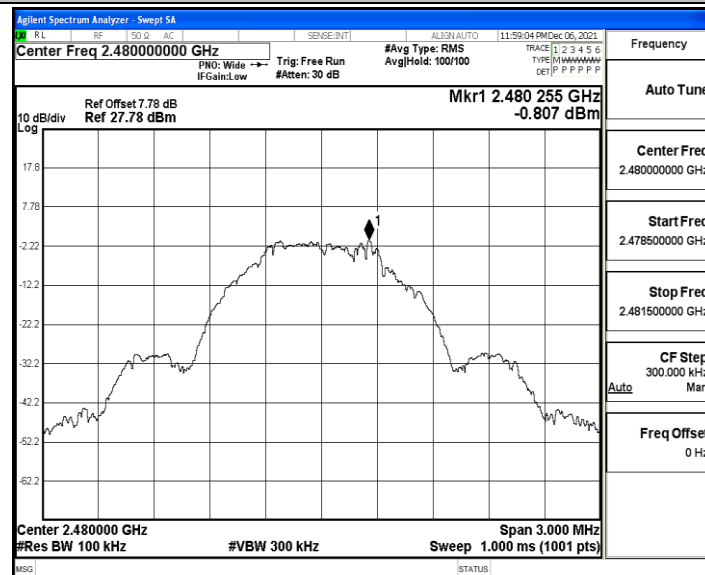
BLE_1M_Ant1_2440_30~1000



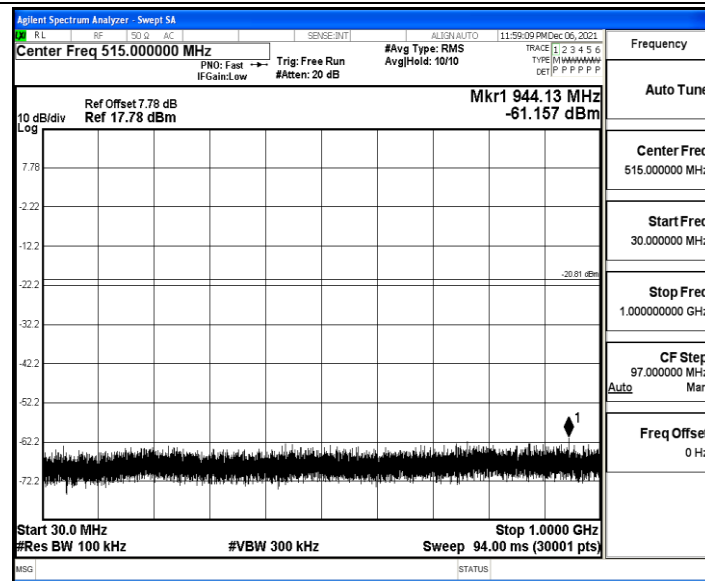
BLE_1M_Ant1_2440_1000~26500



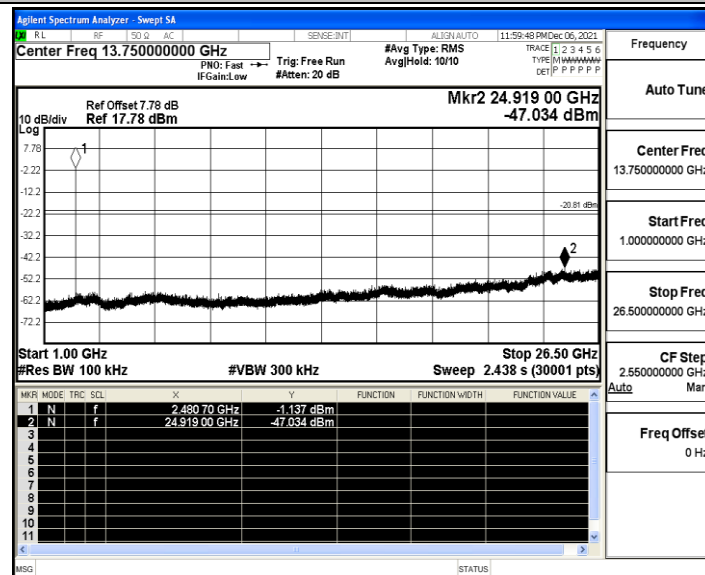
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



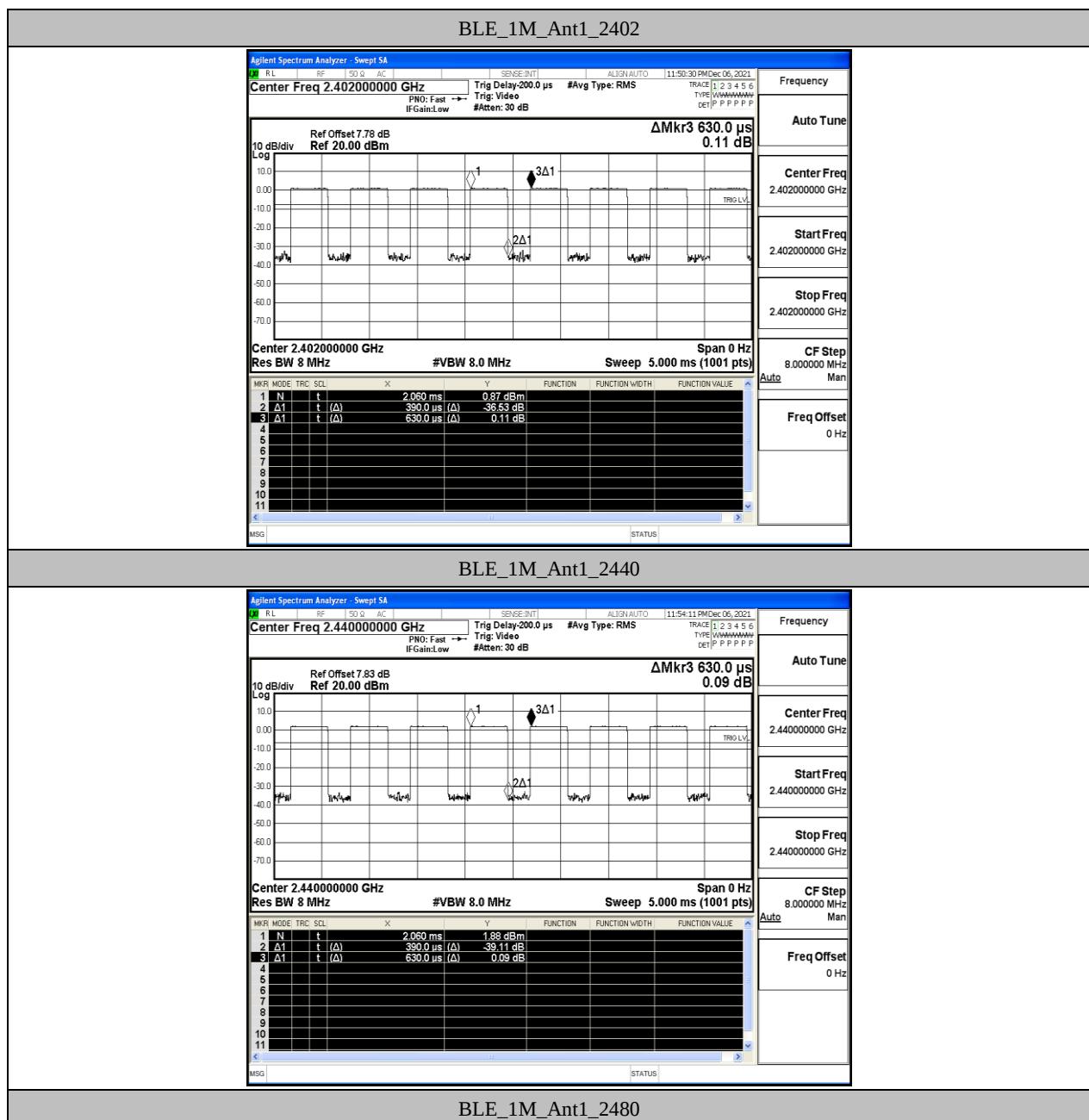


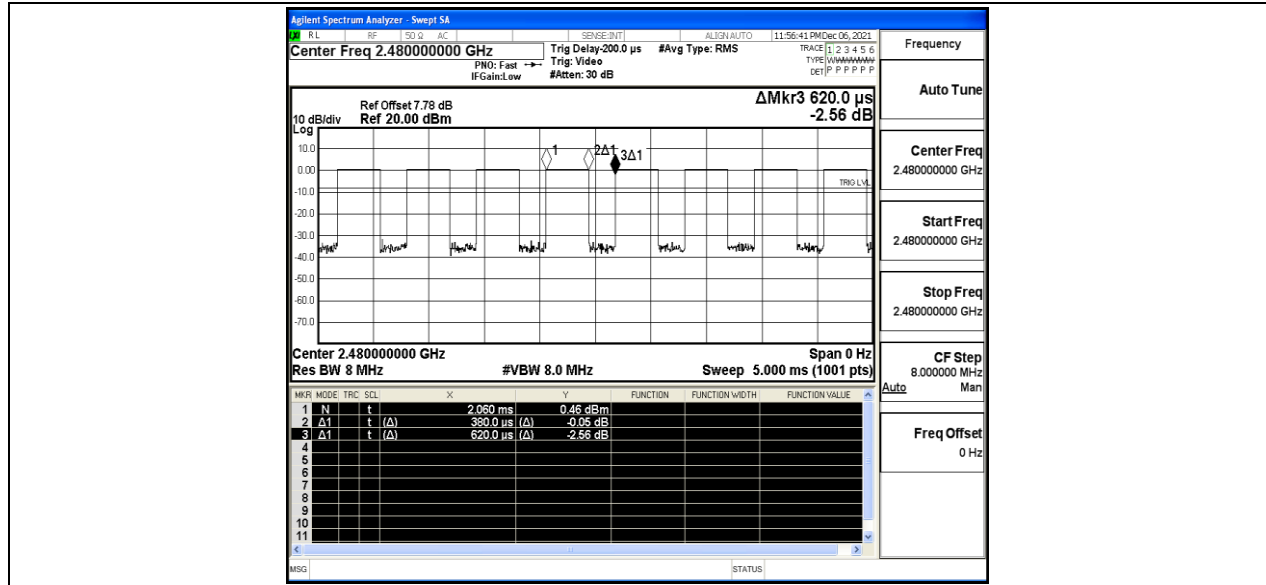
B.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.39	0.63	0.6190	61.90	2.08	---	PASS
		2440	0.39	0.63	0.6190	61.90	2.08	---	PASS
		2480	0.38	0.62	0.6129	61.29	2.13	---	PASS

Test Graphs







B.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	-48.59	≤-41.20	46.61	≤54	PASS
				AV	2387.780	-47.66	≤-41.20	47.54	≤54	PASS
				AV	2390.000	-48.16	≤-41.20	47.04	≤54	PASS
				Peak	2310.000	-42.31	≤-21.20	52.89	≤74	PASS
				Peak	2341.790	-38.76	≤-21.20	56.44	≤74	PASS
				Peak	2390.000	-42.4	≤-21.20	52.80	≤74	PASS
		High	2480	AV	2483.500	-47.16	≤-41.20	48.04	≤54	PASS
				AV	2499.040	-47.13	≤-41.20	48.07	≤54	PASS
				AV	2500.000	-47.48	≤-41.20	47.72	≤54	PASS
				Peak	2483.500	-41.72	≤-21.20	53.48	≤74	PASS
				Peak	2483.920	-39.33	≤-21.20	55.87	≤74	PASS
				Peak	2500.000	-41.83	≤-21.20	53.37	≤74	PASS

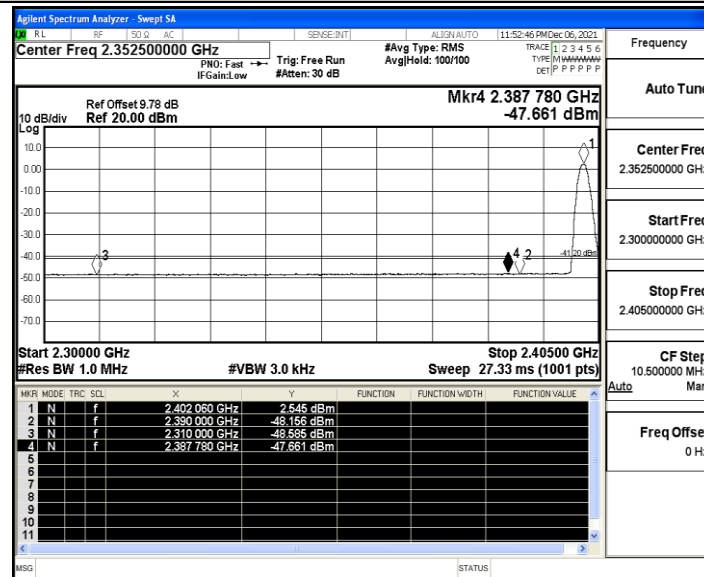
Note:

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.

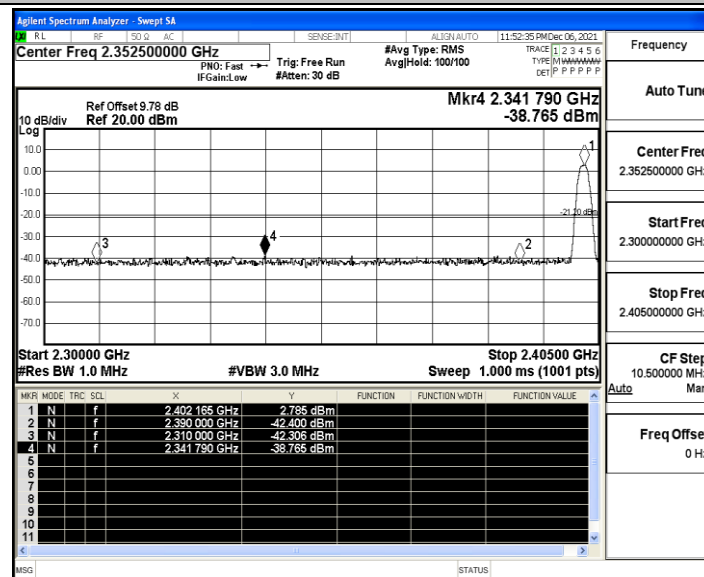


Test Graphs

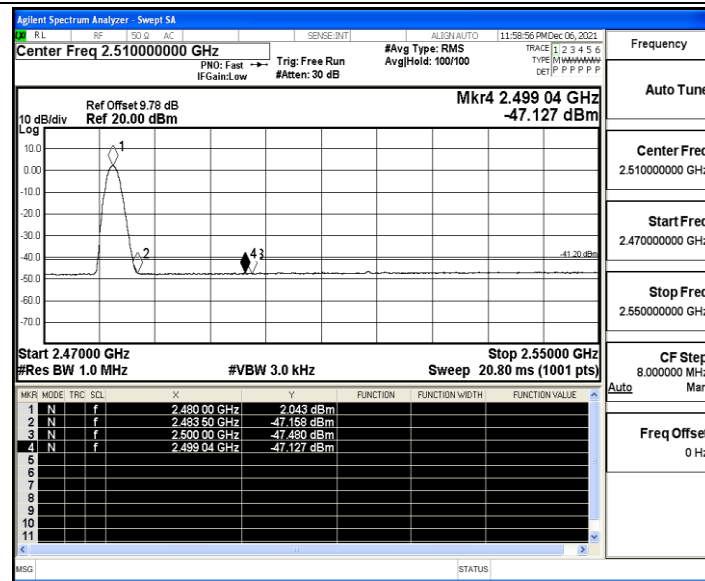
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

