

RF Test Data for BT(BLE) (Conducted Measurement)

Product Name: Bluetooth Media Button

Trade Mark: RECOIL

Test Model: PRC-1

FCC ID: 2A6RGPRC-1

Environmental Conditions

Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

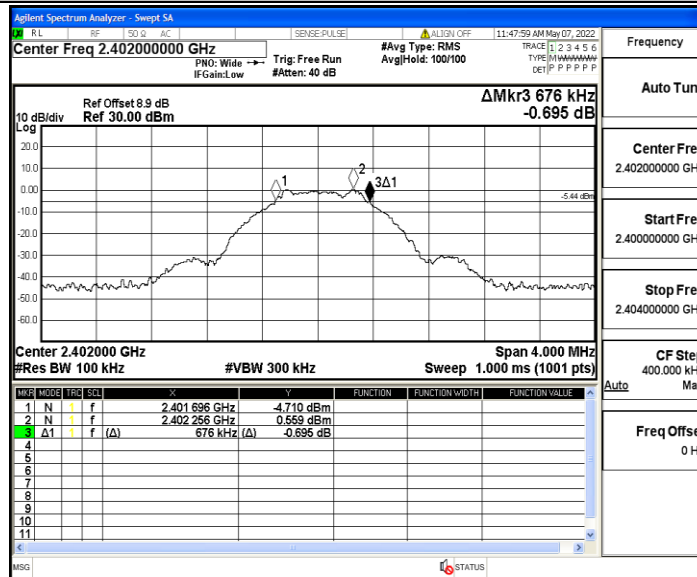
Appendix A: DTS Bandwidth

Test Result

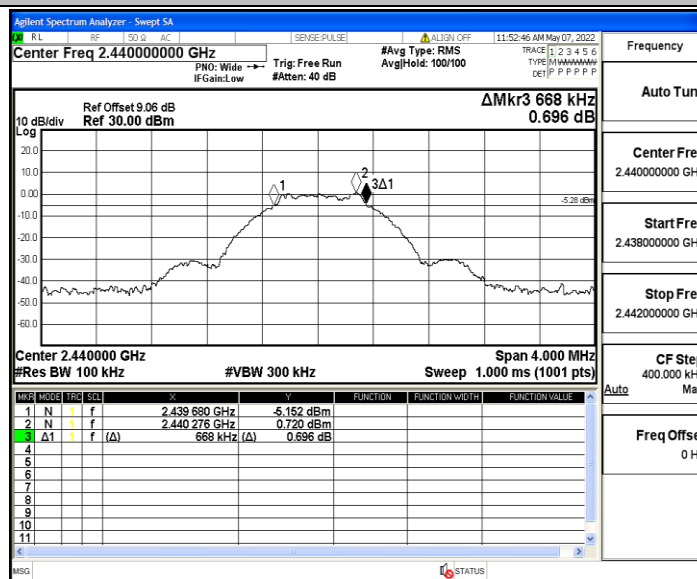
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.676	2401.696	2402.372	0.5	PASS
		2440	0.668	2439.680	2440.348	0.5	PASS
		2480	0.664	2479.692	2480.356	0.5	PASS

Test Graphs

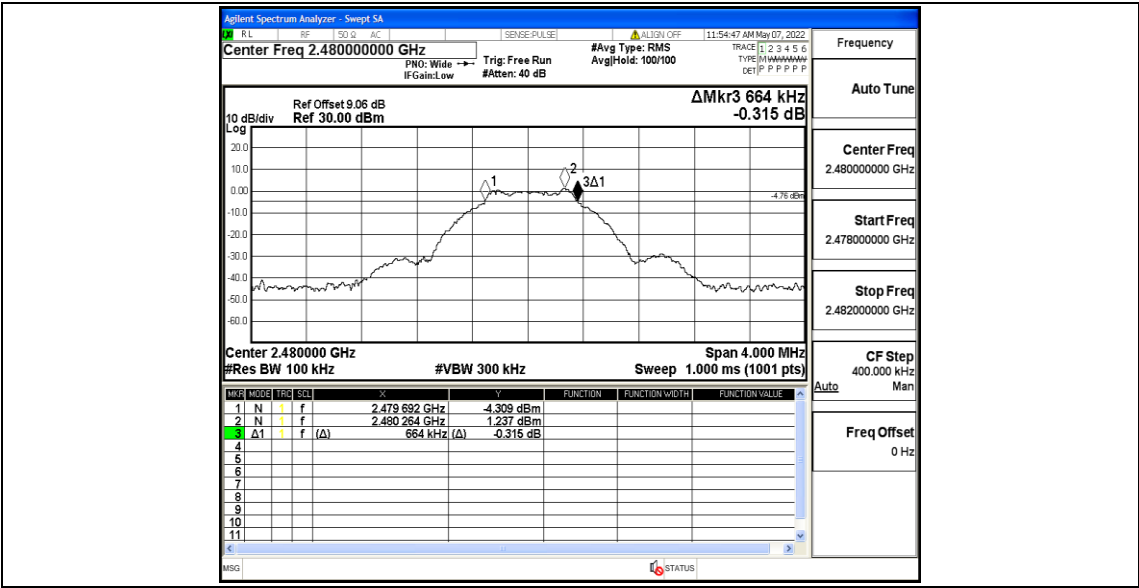
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



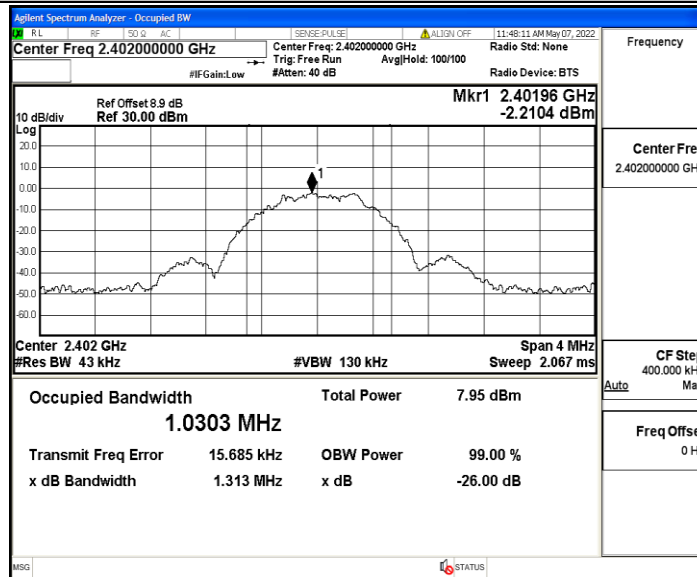
Appendix B: Occupied Channel Bandwidth

Test Result

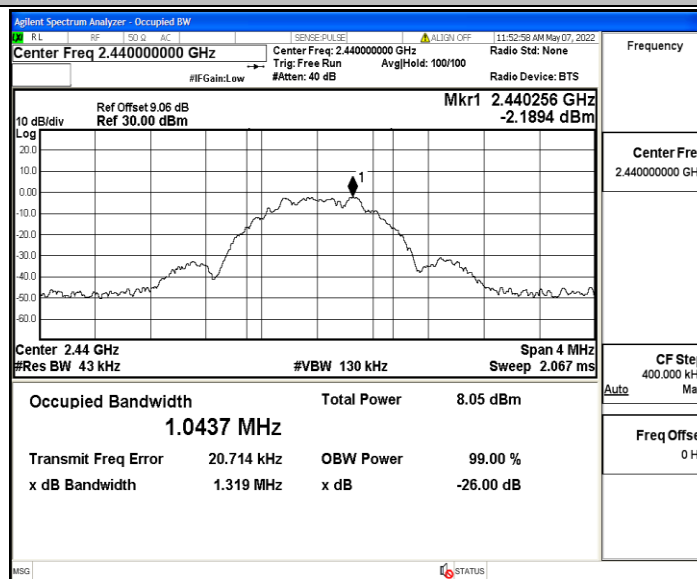
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0303	2401.501	2402.531	---	---
		2440	1.0437	2439.499	2440.543	---	---
		2480	1.0329	2479.503	2480.536	---	---

Test Graphs

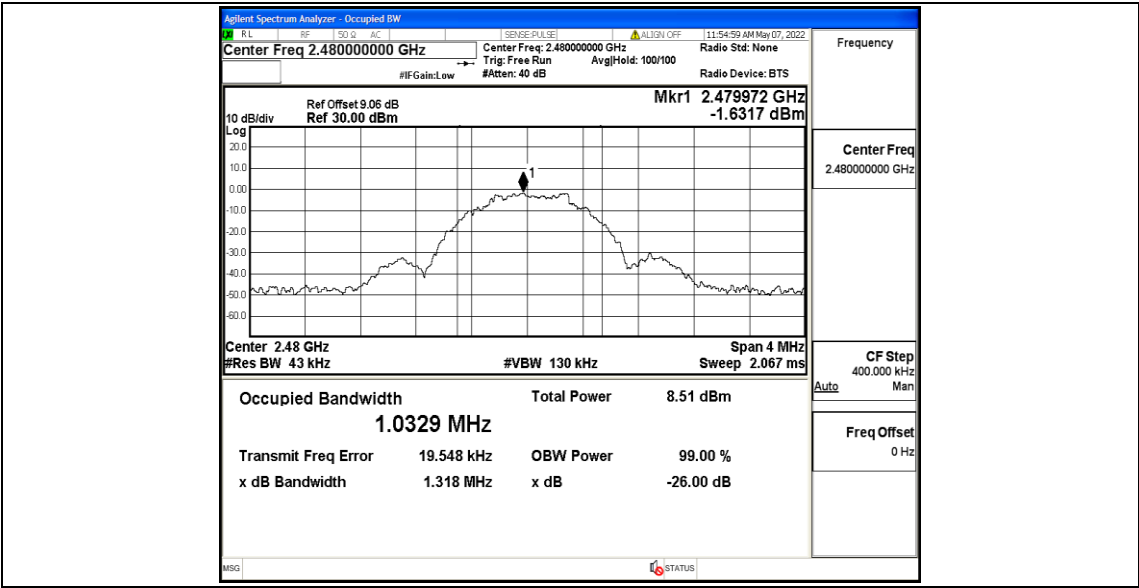
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

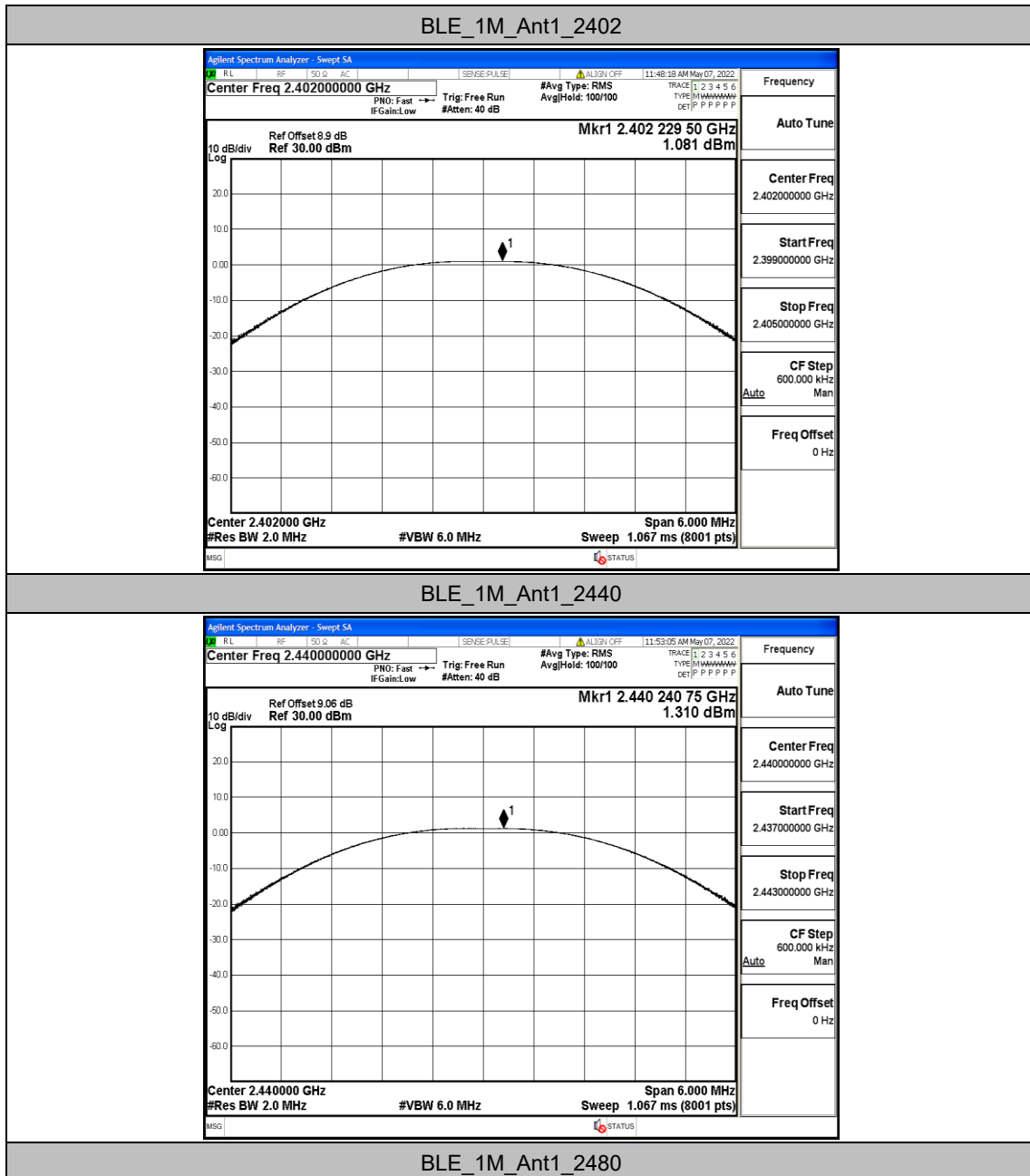


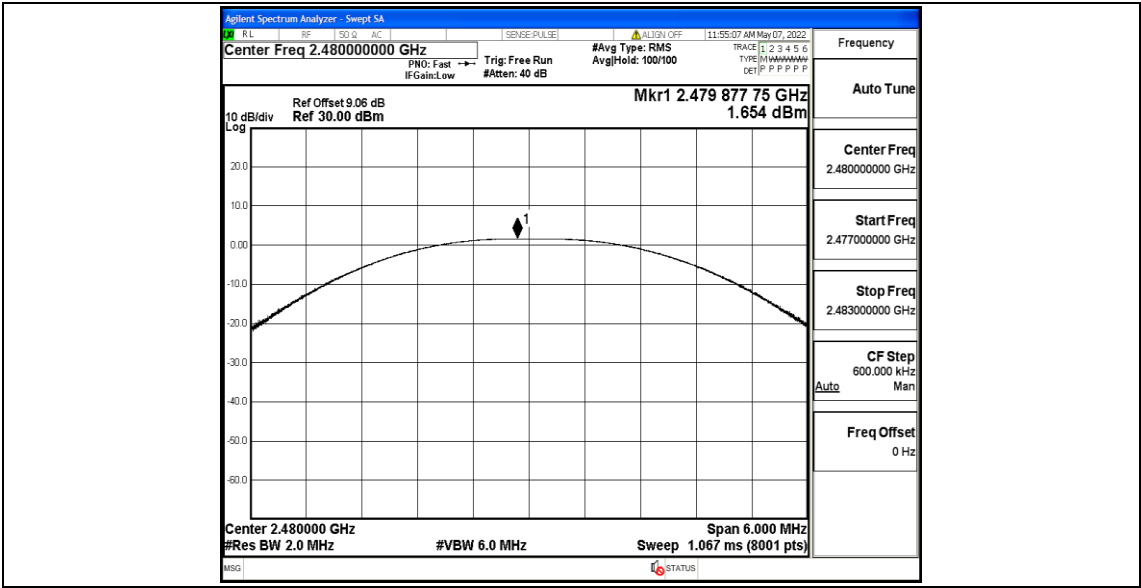
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.08	≤30	PASS
		2440	1.31	≤30	PASS
		2480	1.65	≤30	PASS

Test Graphs



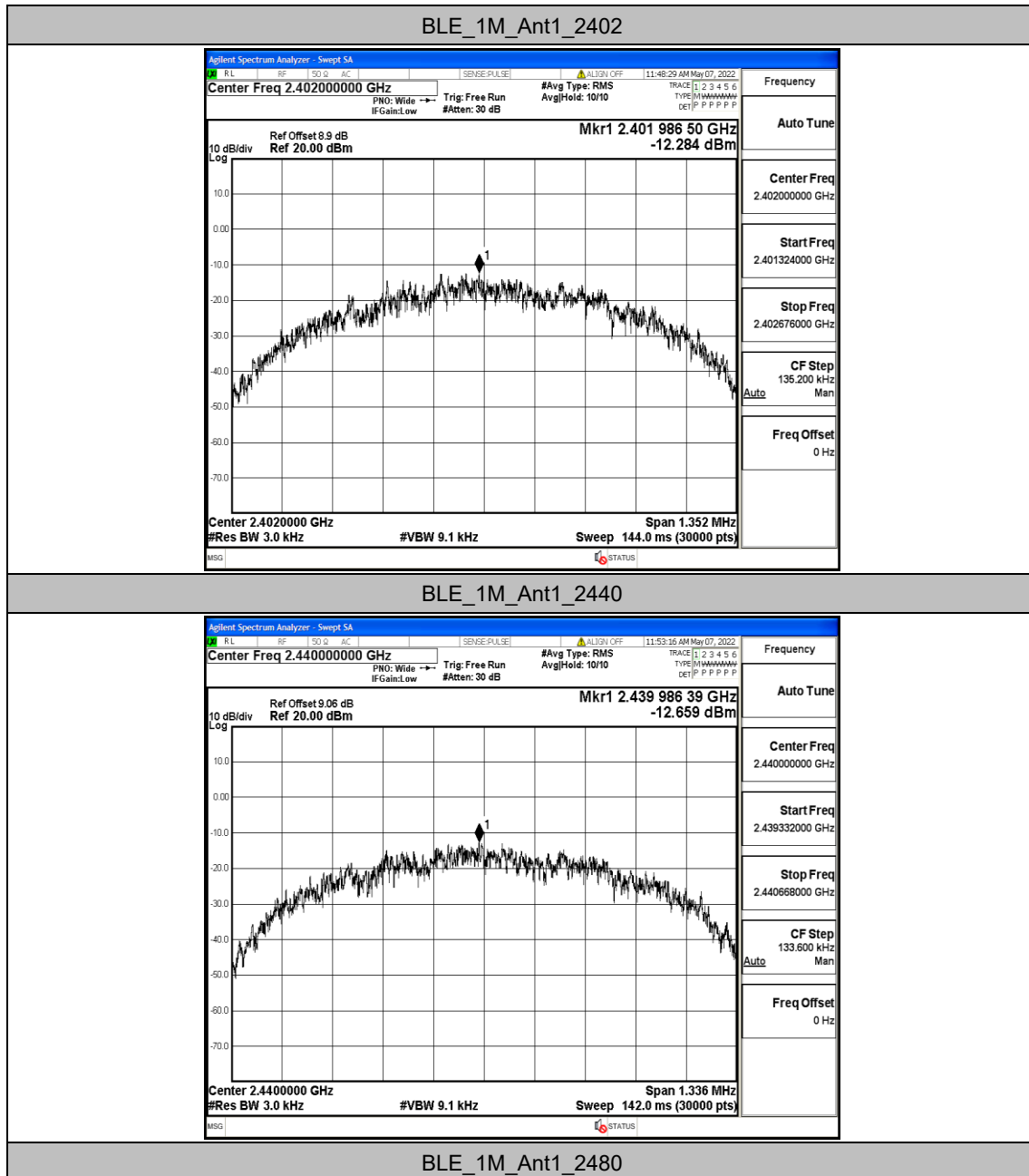


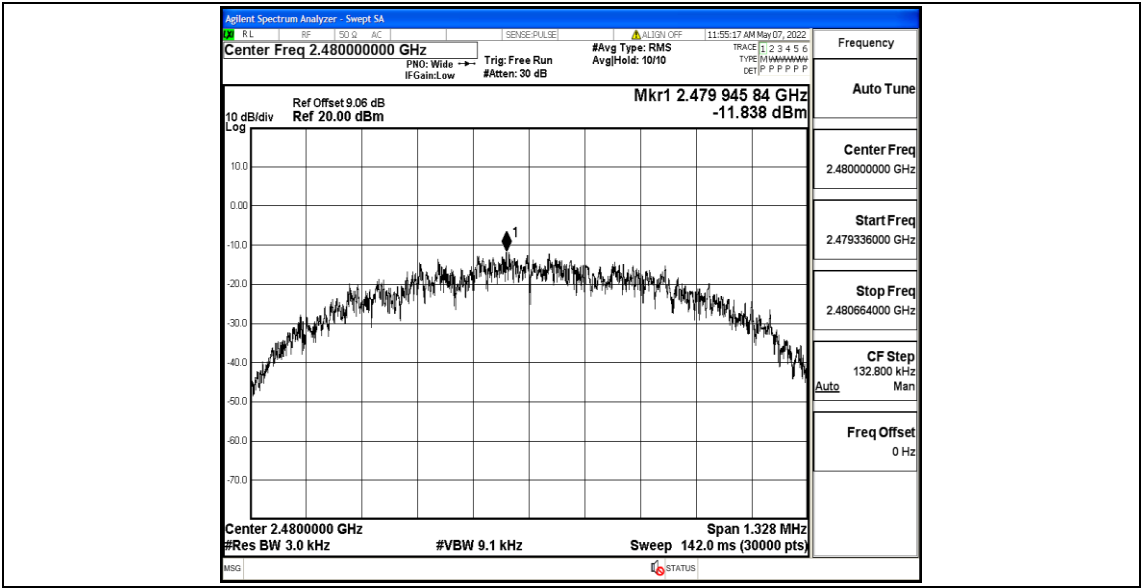
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.28	≤8.00	PASS
		2440	-12.66	≤8.00	PASS
		2480	-11.84	≤8.00	PASS

Test Graphs





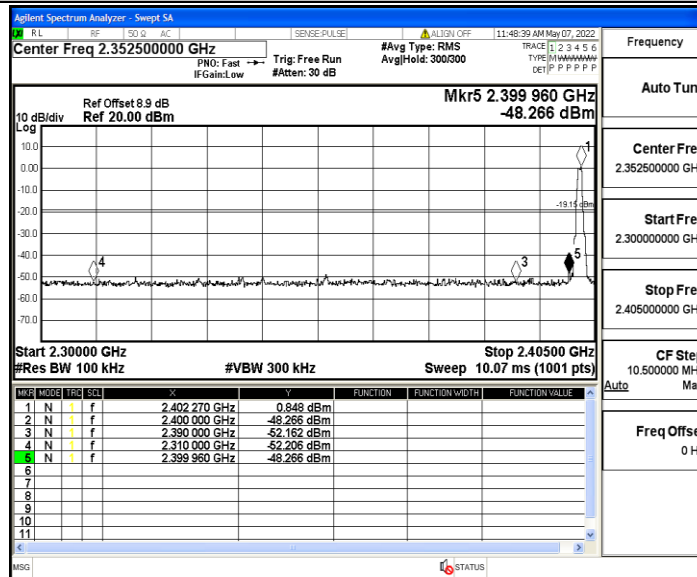
Appendix E: Band edge measurements

Test Result

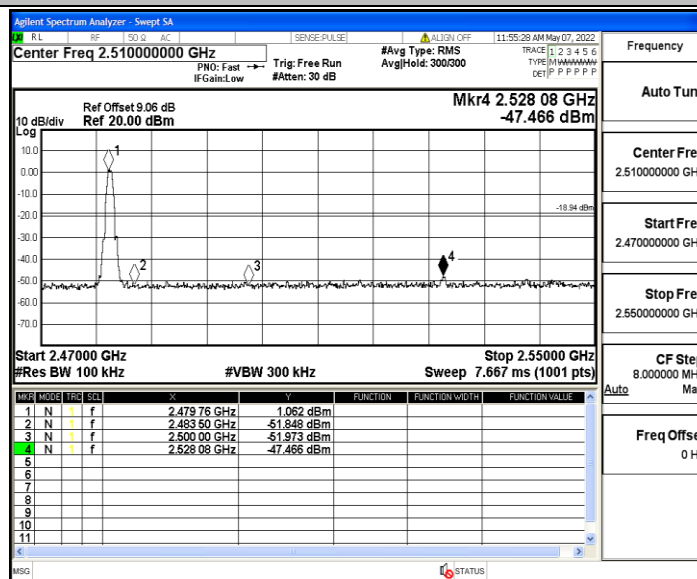
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.85	-48.27	≤-19.15	PASS
		High	2480	1.06	-47.47	≤-18.94	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



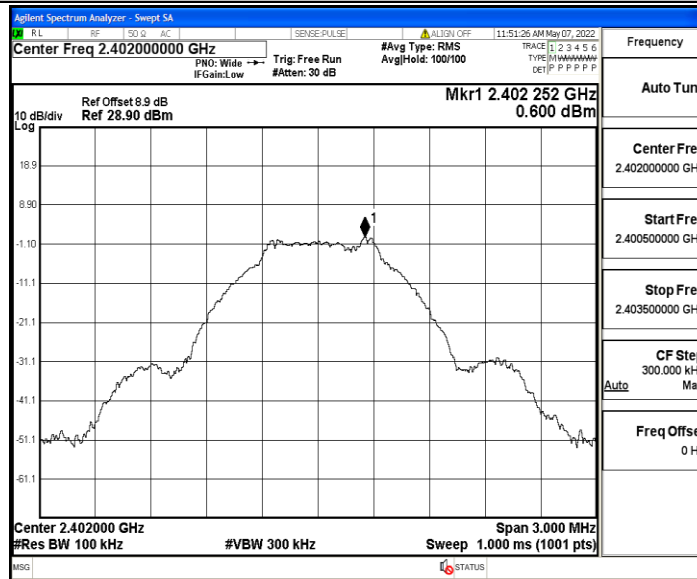
Appendix F: Conducted Spurious Emission

Test Result

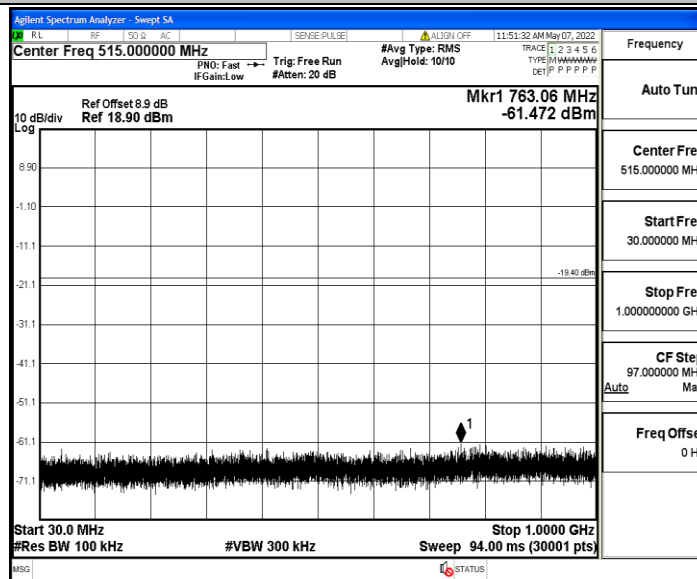
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.60	0.60	---	PASS
			30~1000	0.60	-61.47	≤-19.4	PASS
			1000~26500	0.60	-32.07	≤-19.4	PASS
		2440	Reference	0.92	0.92	---	PASS
			30~1000	0.92	-61.44	≤-19.08	PASS
			1000~26500	0.92	-33.56	≤-19.08	PASS
		2480	Reference	1.12	1.12	---	PASS
			30~1000	1.12	-61.69	≤-18.88	PASS
			1000~26500	1.12	-35.21	≤-18.88	PASS

Test Graphs

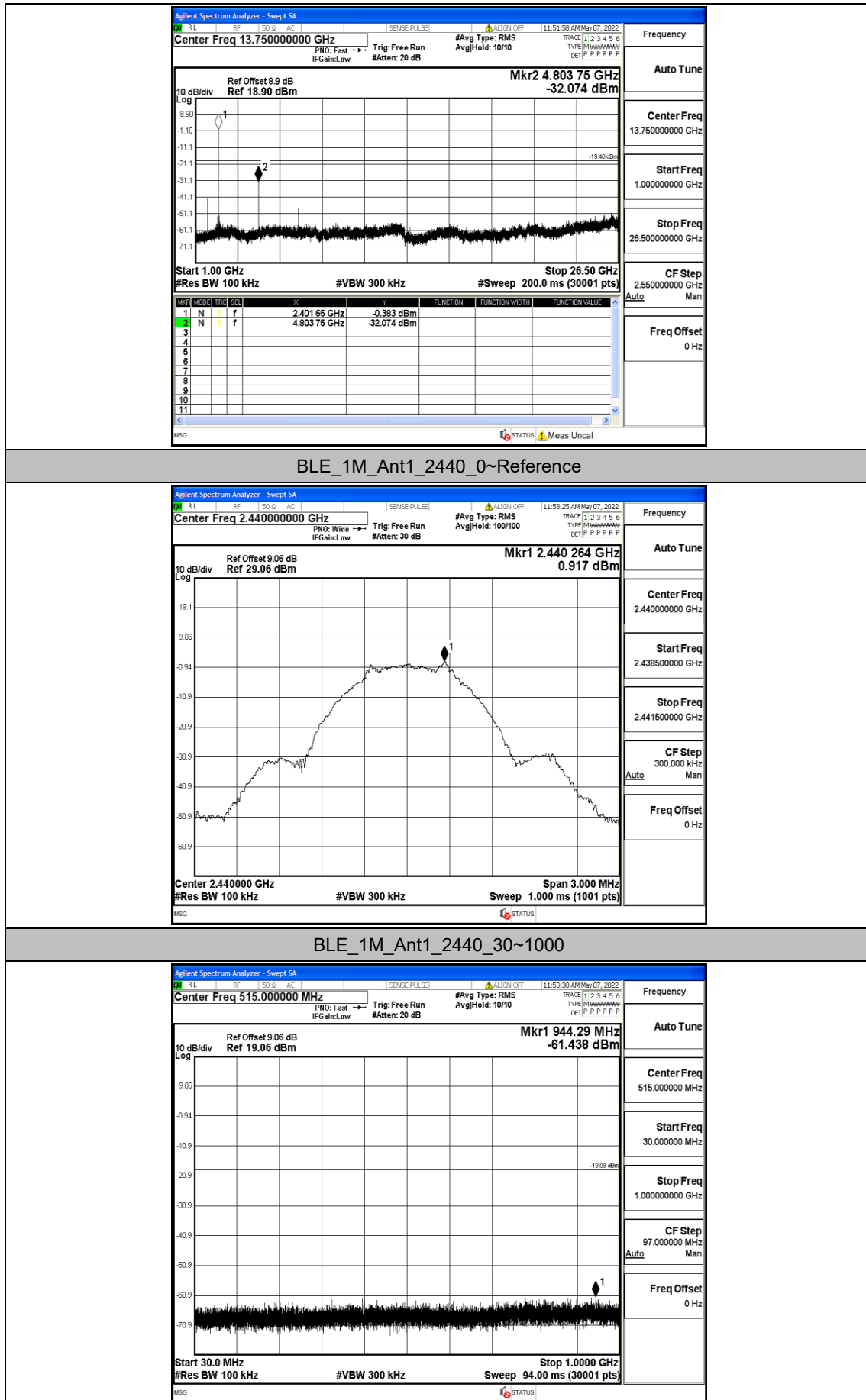
BLE_1M_Ant1_2402_0~Reference



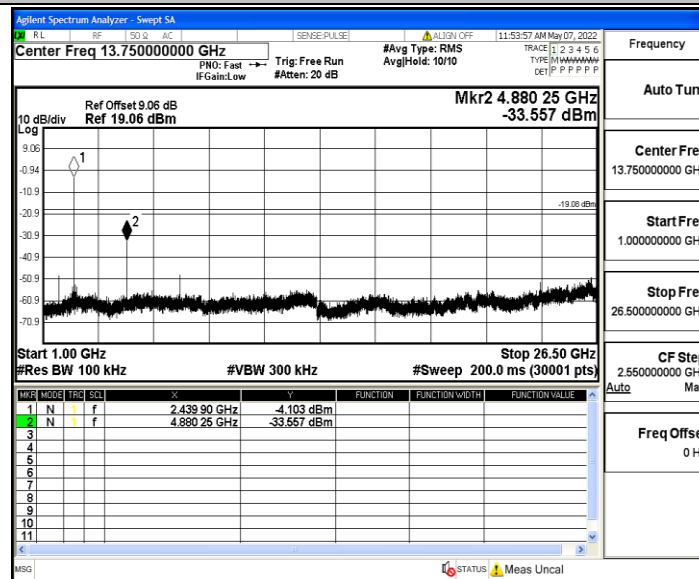
BLE_1M_Ant1_2402_30~1000



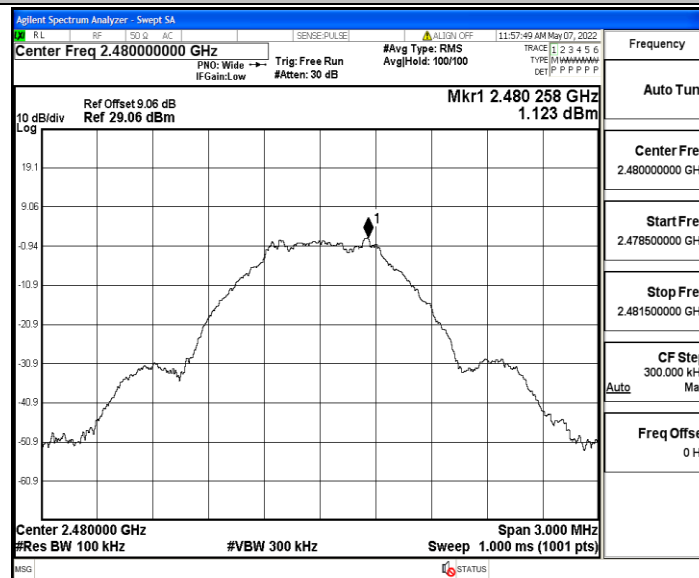
BLE_1M_Ant1_2402_1000~26500



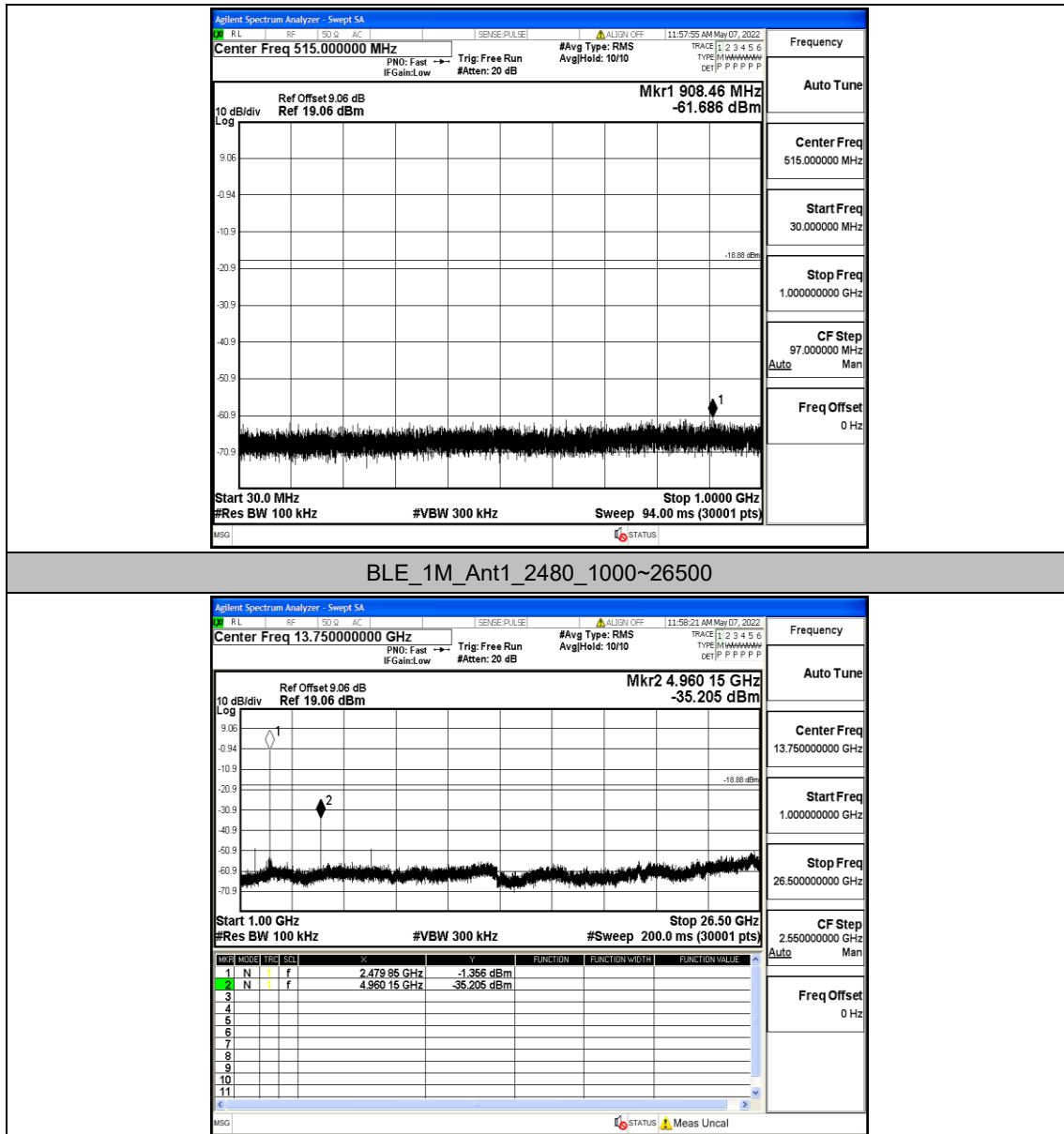
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



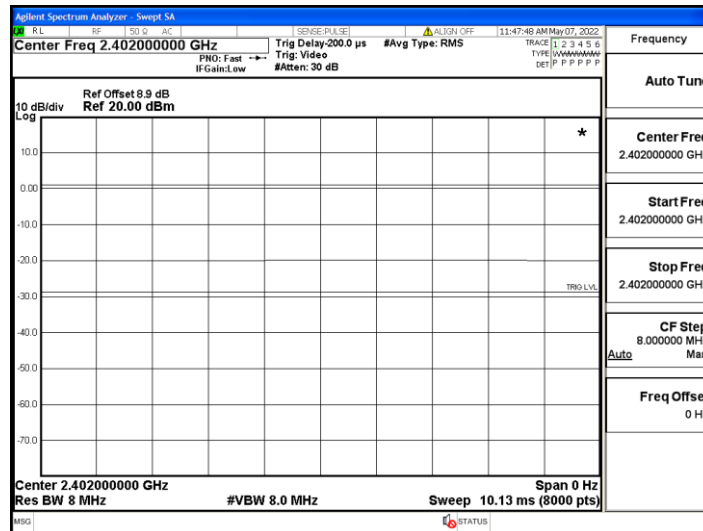
Appendix G: Duty Cycle

Test Result

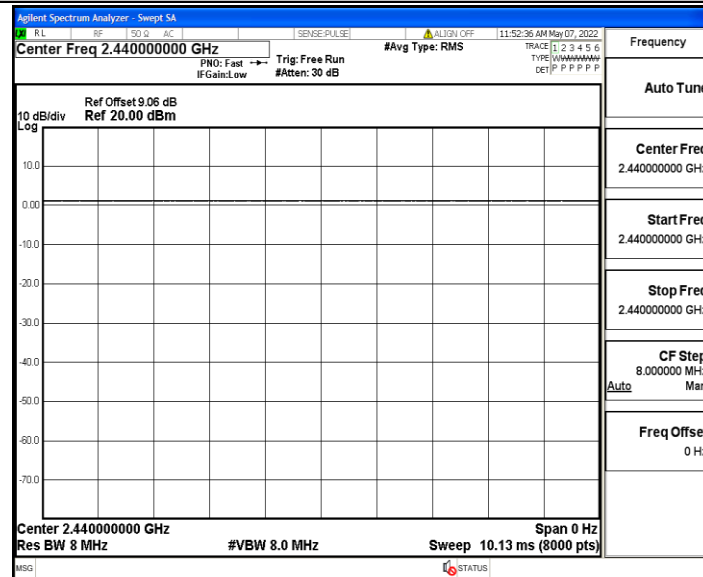
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T
BLE_1M	Ant1	2402	100	100	100	10
		2440	100	100	100	10
		2480	100	100	100	10

Test Graphs

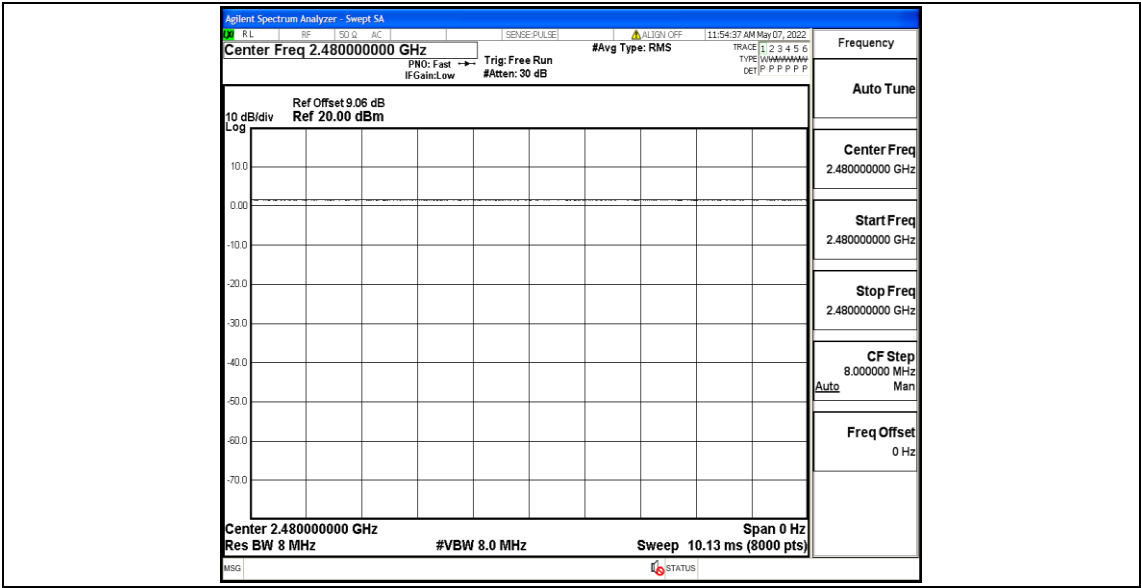
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix H: Emissions in Restricted Bands

Test Result

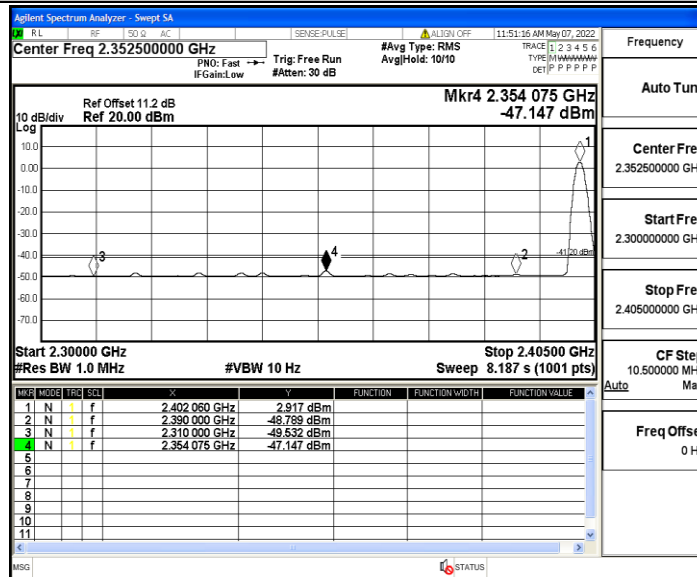
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-49.53	≤-41.20	PASS
				AV	2354.075	-47.15	≤-41.20	PASS
				AV	2390.000	-48.79	≤-41.20	PASS
				Peak	2310.000	-45.45	≤-21.20	PASS
				Peak	2369.825	-39.66	≤-21.20	PASS
				Peak	2390.000	-44.27	≤-21.20	PASS
		High	2480	AV	2483.500	-47.85	≤-41.20	PASS
				AV	2483.520	-47.85	≤-41.20	PASS
				AV	2500.000	-48.58	≤-41.20	PASS
				Peak	2483.500	-42.71	≤-21.20	PASS
				Peak	2487.600	-40.23	≤-21.20	PASS
				Peak	2500.000	-42.19	≤-21.20	PASS

Note:

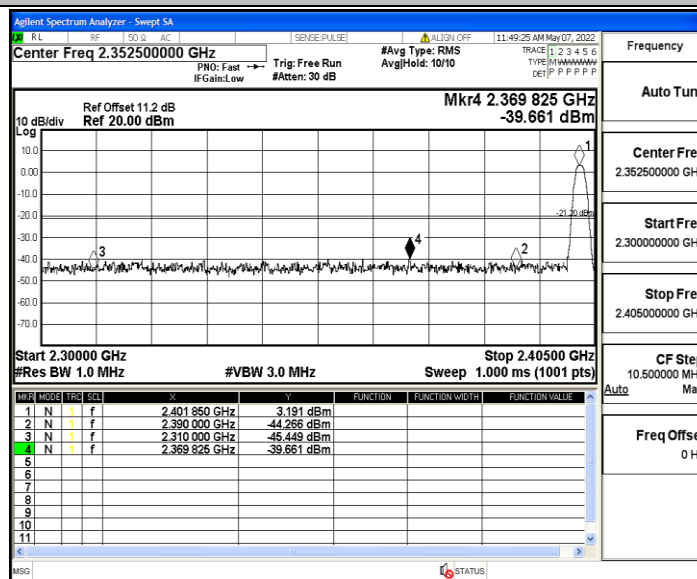
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV

