

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

Product Name: Wanbo Projector

Trade Mark: wanbo

Test Model: T6 Max

FCC ID: 2A7PIT6MAX

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

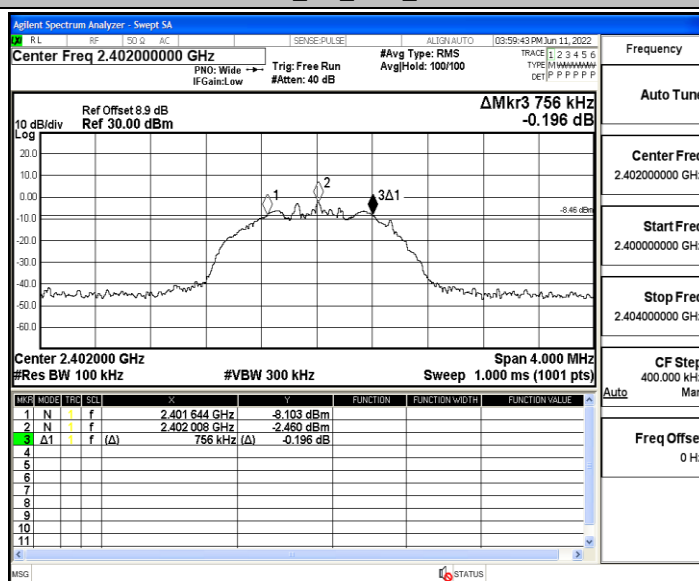
Appendix A: DTS Bandwidth

Test Result

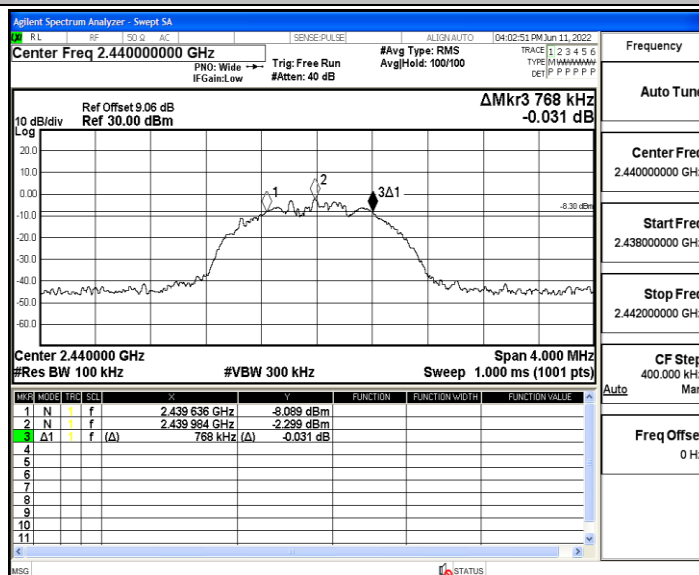
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.756	2401.644	2402.400	0.5	PASS
		2440	0.768	2439.636	2440.404	0.5	PASS
		2480	0.744	2479.656	2480.400	0.5	PASS

Test Graphs

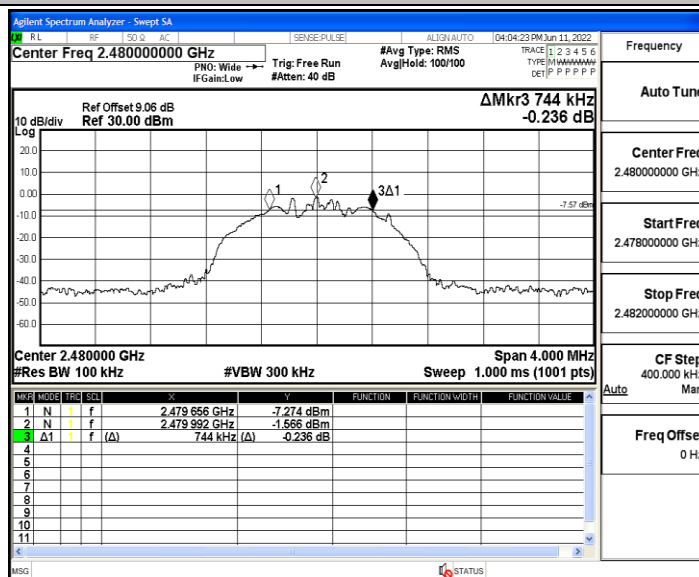
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



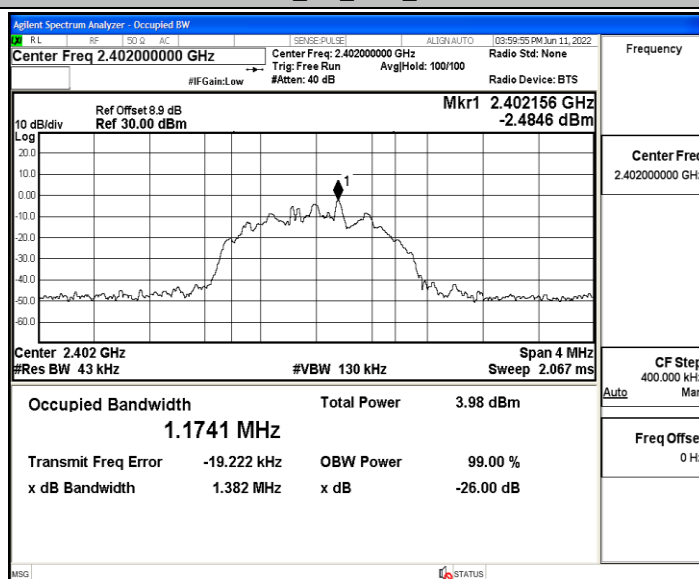
Appendix B: Occupied Channel Bandwidth

Test Result

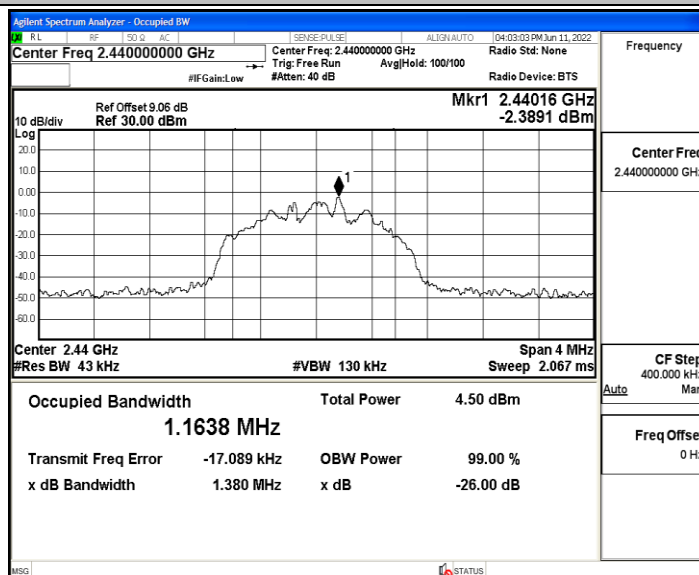
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.1741	2401.394	2402.568	---	---
		2440	1.1638	2439.401	2440.565	---	---
		2480	1.1741	2479.396	2480.571	---	---

Test Graphs

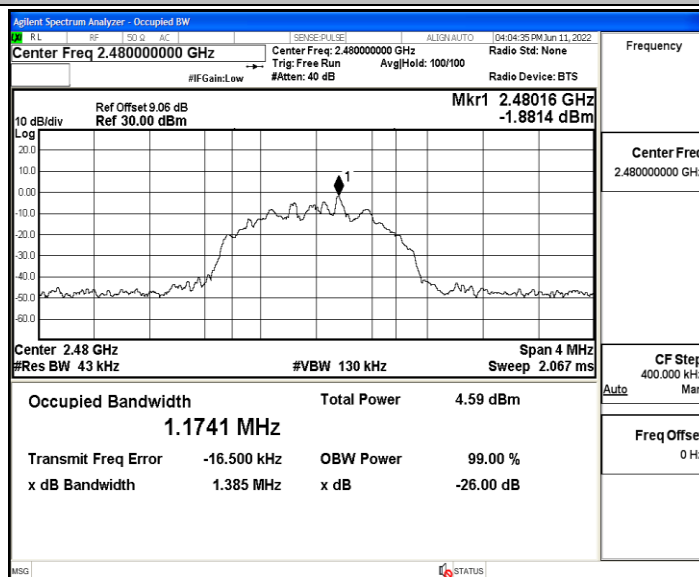
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

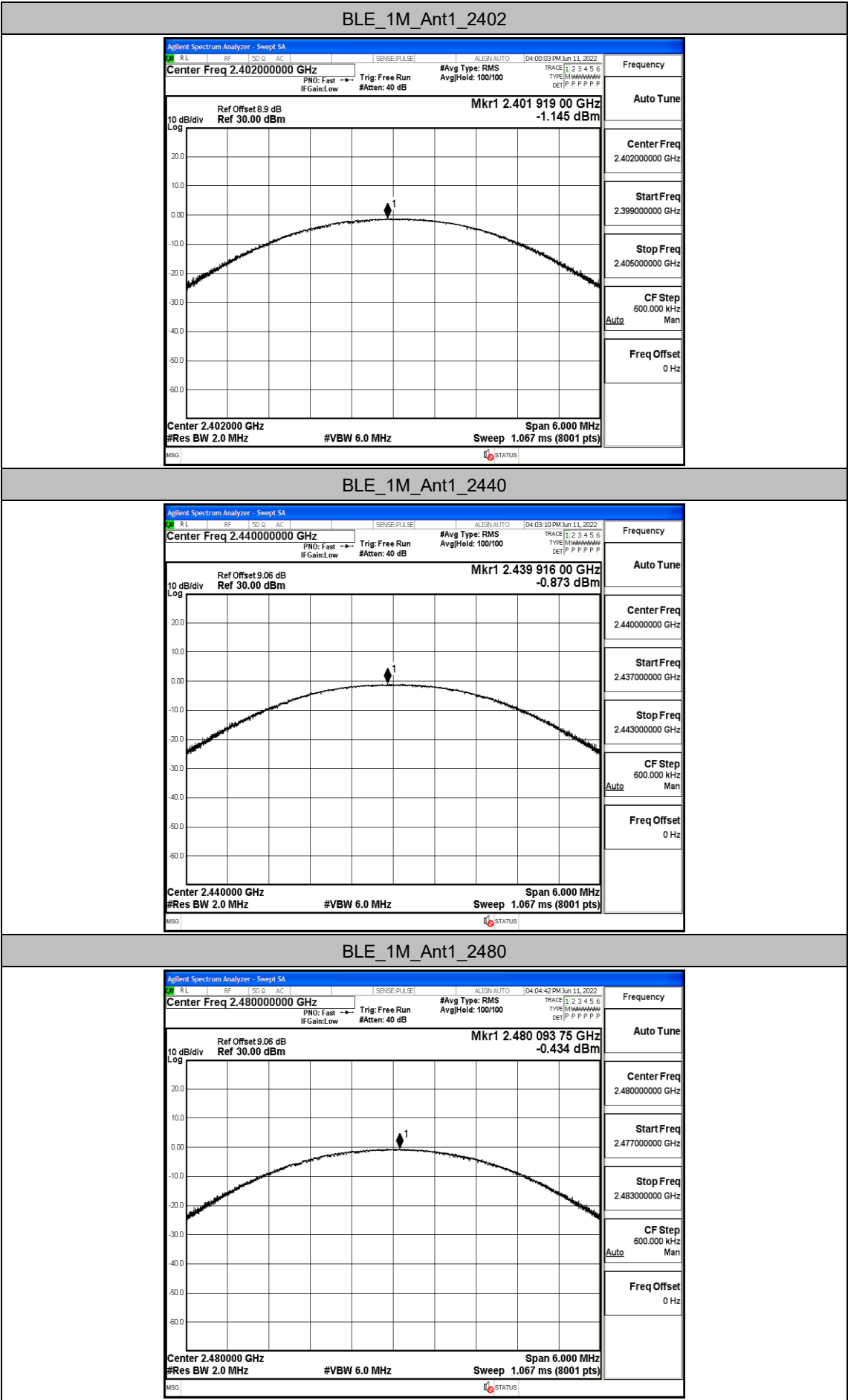


Appendix C: Maximum Peak conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.15	≤30	PASS
		2440	-0.87	≤30	PASS
		2480	-0.43	≤30	PASS

Test Graphs



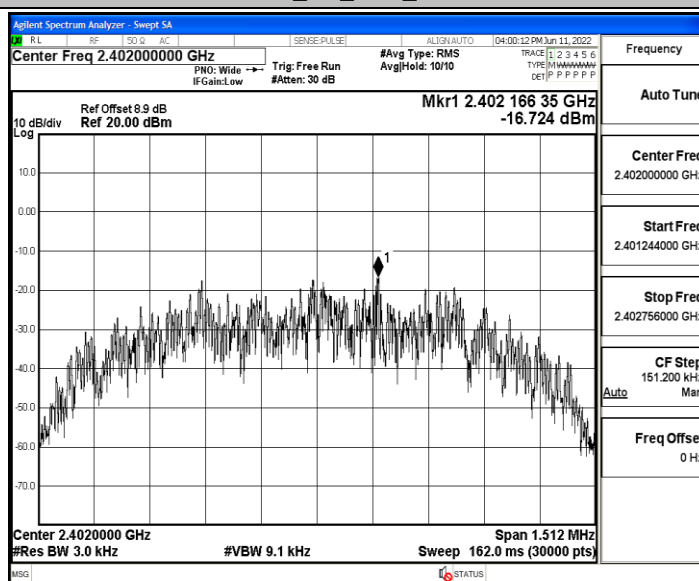
Appendix D: Maximum power spectral density

Test Result

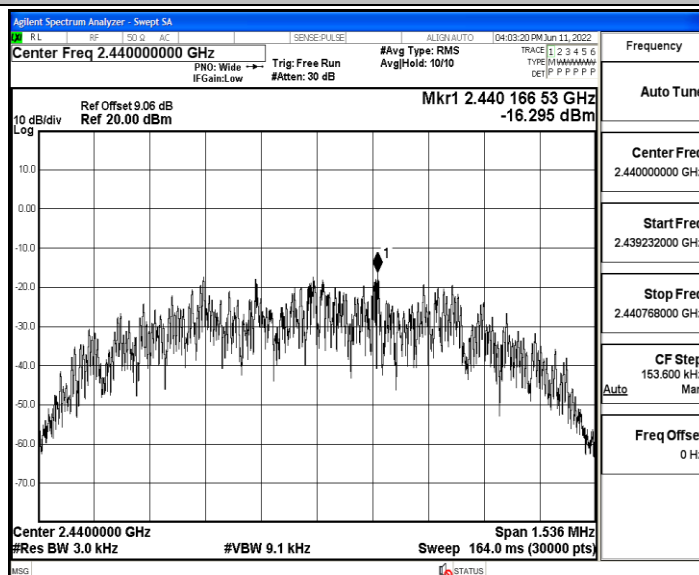
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.72	≤8.00	PASS
		2440	-16.3	≤8.00	PASS
		2480	-16.16	≤8.00	PASS

Test Graphs

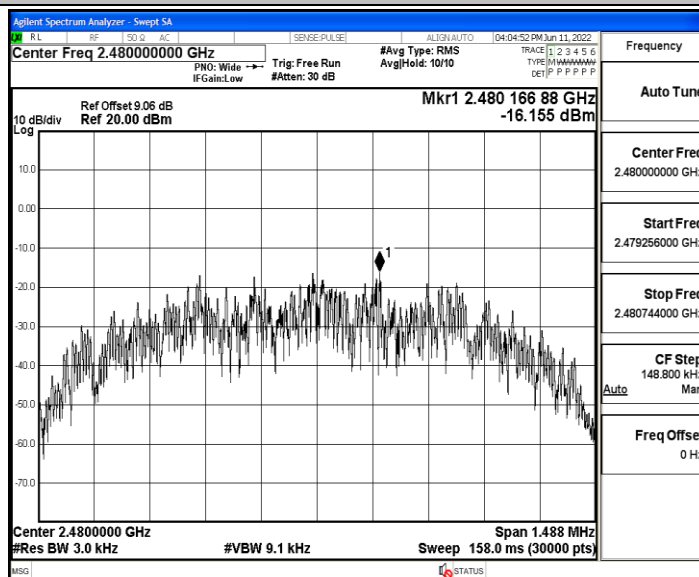
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

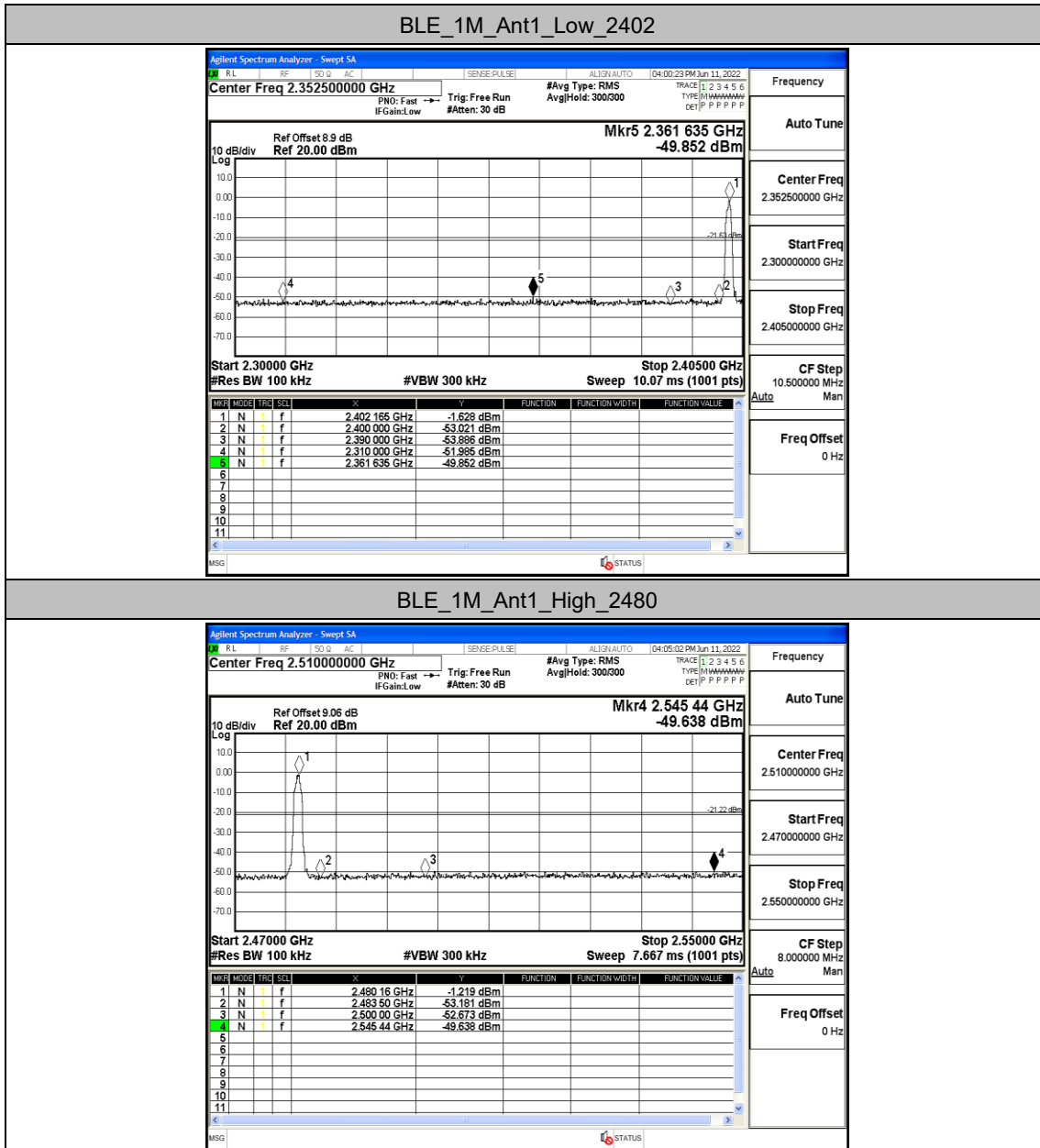


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.63	-49.85	≤ -21.63	PASS
		High	2480	-1.22	-49.64	≤ -21.22	PASS

Test Graphs



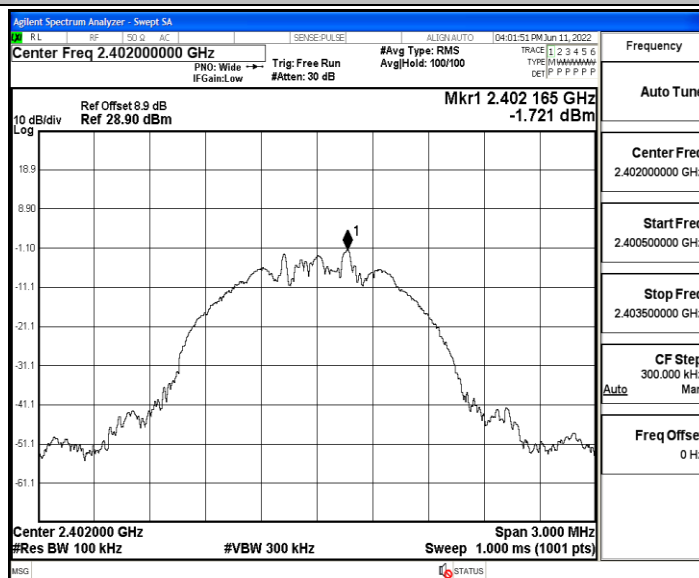
Appendix F: Conducted Spurious Emission

Test Result

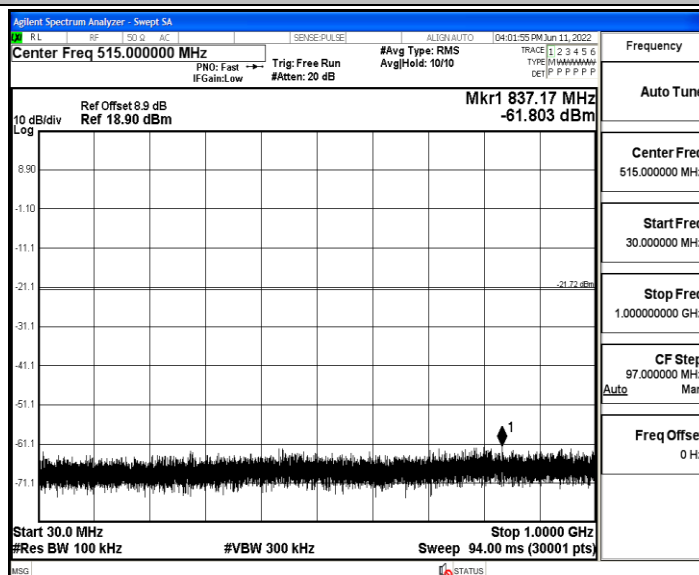
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.72	-1.72	---	PASS
			30~1000	-1.72	-61.8	≤ -21.72	PASS
			1000~26500	-1.72	-50.92	≤ -21.72	PASS
		2440	Reference	-1.93	-1.93	---	PASS
			30~1000	-1.93	-61.77	≤ -21.93	PASS
			1000~26500	-1.93	-50.59	≤ -21.93	PASS
		2480	Reference	-1.54	-1.54	---	PASS
			30~1000	-1.54	-61.6	≤ -21.54	PASS
			1000~26500	-1.54	-50.61	≤ -21.54	PASS

Test Graphs

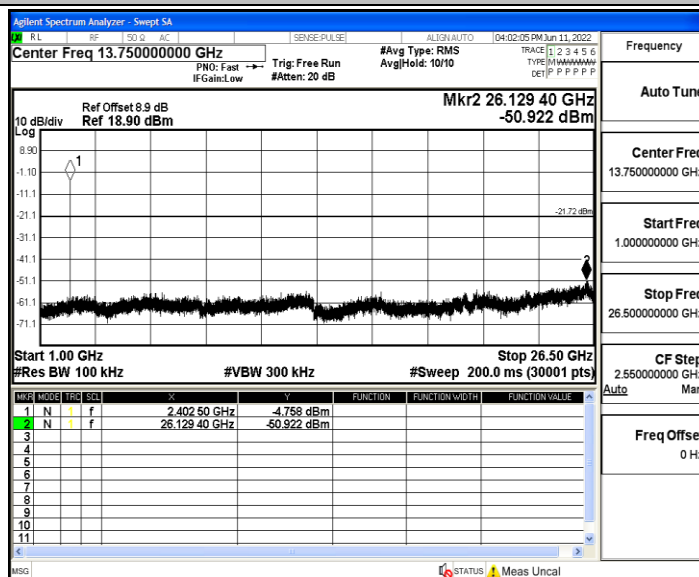
BLE_1M_Ant1_2402_0~Reference



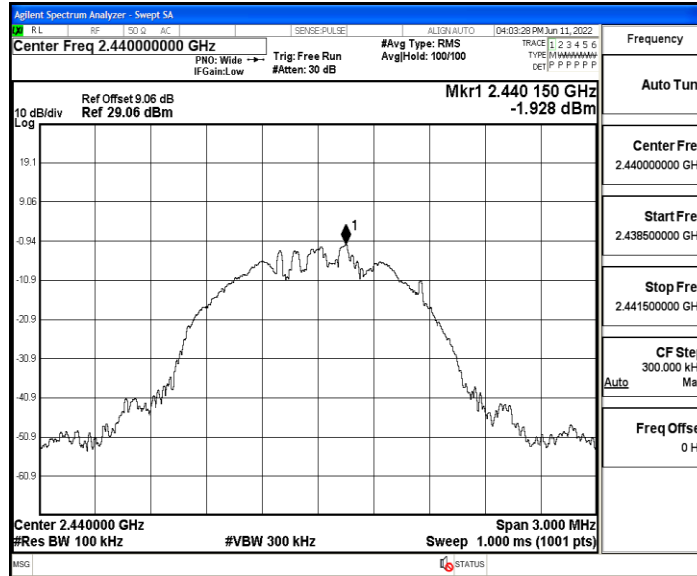
BLE_1M_Ant1_2402_30~1000



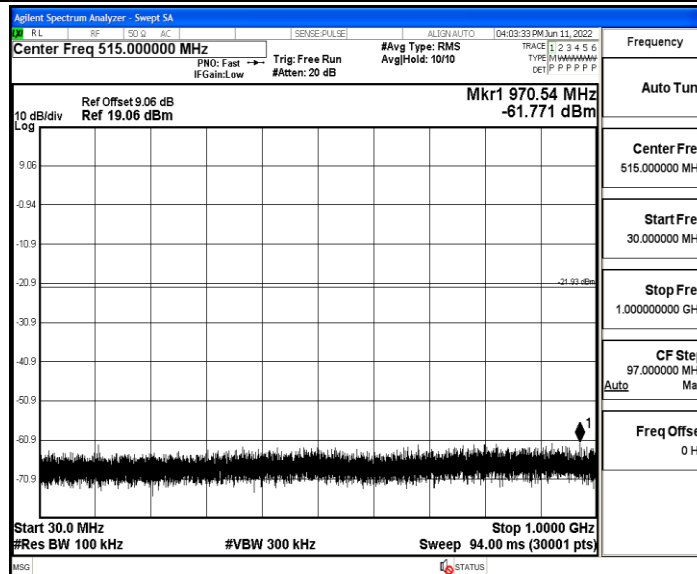
BLE_1M_Ant1_2402_1000~26500



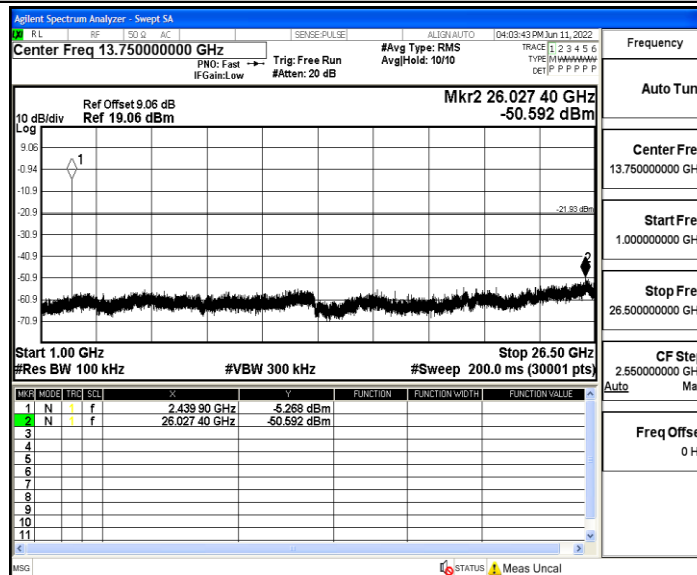
BLE_1M_Ant1_2440_0~Reference



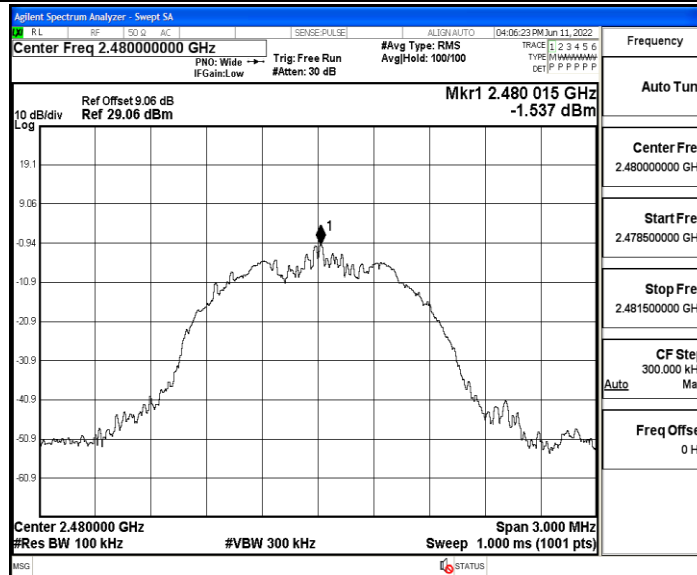
BLE_1M_Ant1_2440_30~1000



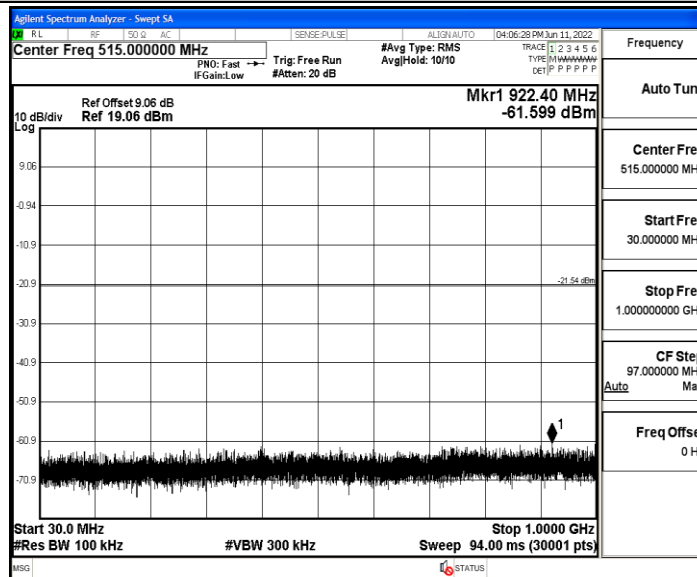
BLE_1M_Ant1_2440_1000~26500



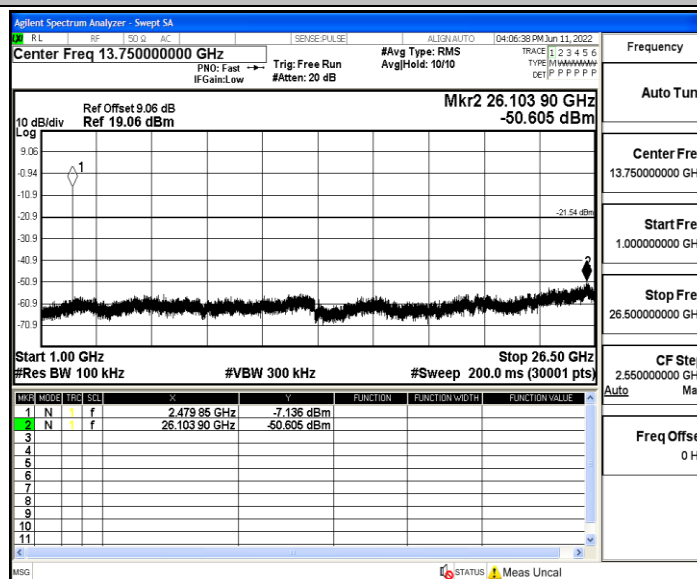
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



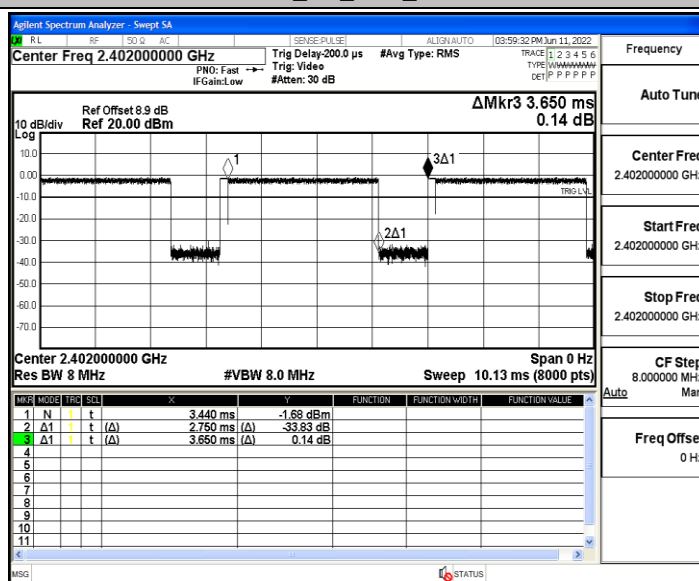
Appendix G: Duty Cycle

Test Result

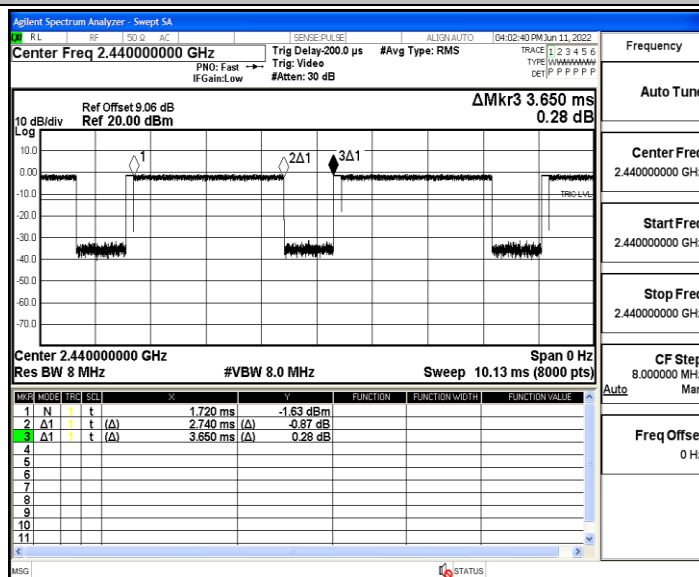
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
BLE_1M	Ant1	2402	2.75	3.65	75.34	0.36
		2440	2.74	3.65	75.07	0.36
		2480	2.74	3.65	75.07	0.36

Test Graphs

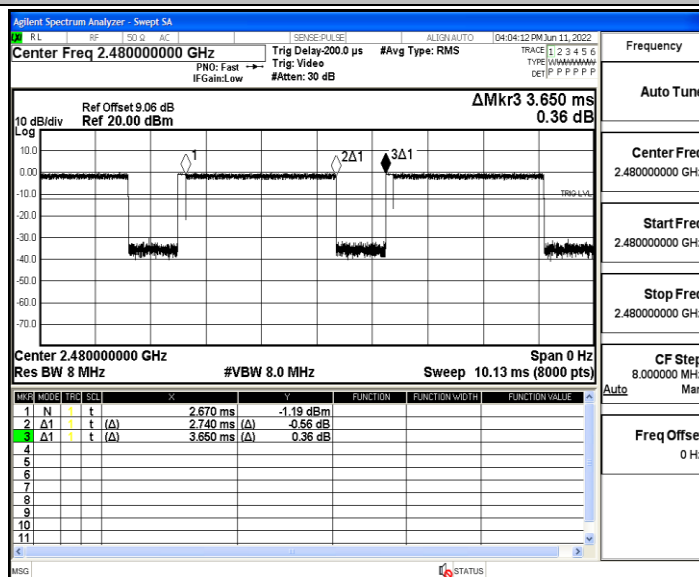
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix H: Emissions in Restricted Bands

Test Result

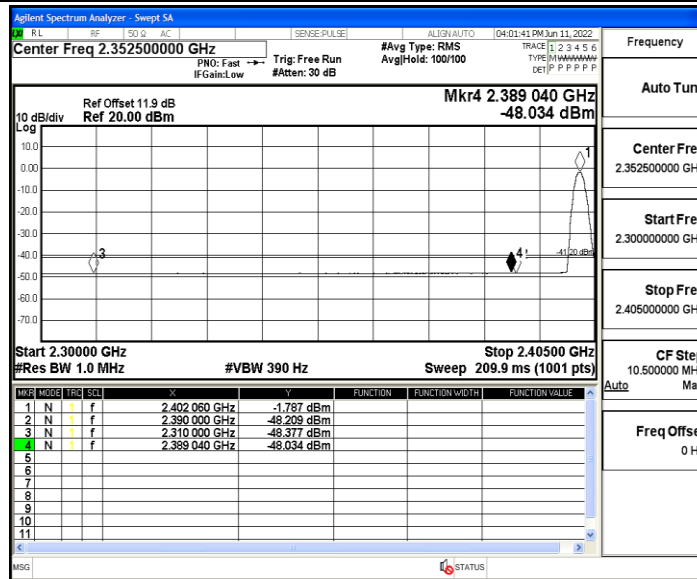
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-48.38	≤-41.20	PASS
				AV	2389.040	-48.03	≤-41.20	PASS
				AV	2390.000	-48.21	≤-41.20	PASS
				Peak	2310.000	-42.41	≤-21.20	PASS
				Peak	2376.650	-37.85	≤-21.20	PASS
				Peak	2390.000	-42.14	≤-21.20	PASS
		High	2480	AV	2483.500	-47.54	≤-41.20	PASS
				AV	2497.200	-47.42	≤-41.20	PASS
				AV	2500.000	-47.49	≤-41.20	PASS
				Peak	2483.500	-40.22	≤-21.20	PASS
				Peak	2486.000	-37.67	≤-21.20	PASS
				Peak	2500.000	-39.86	≤-21.20	PASS

Note:

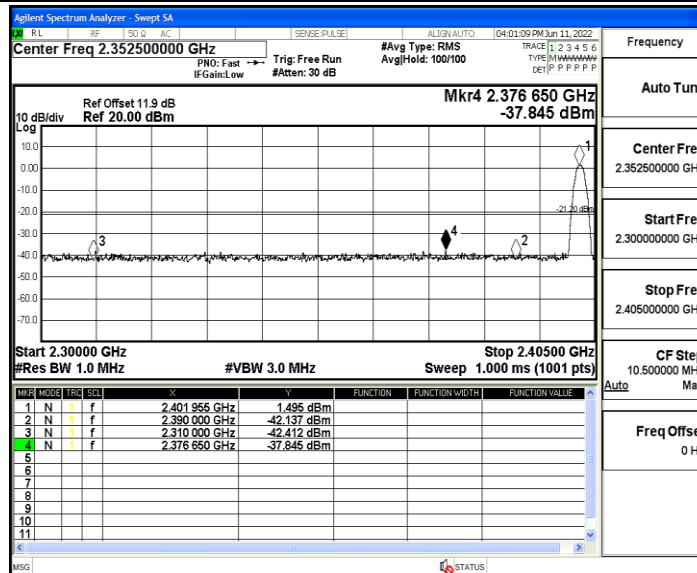
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

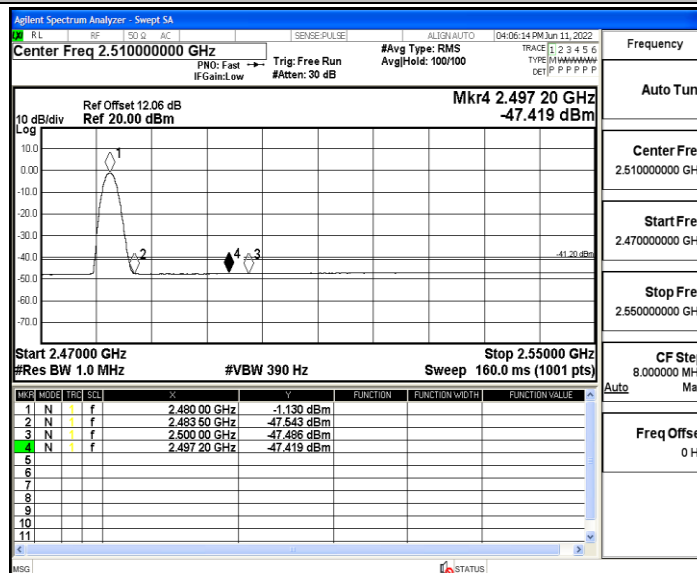
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

