

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

Product Name: short video remote controller & Self-timer

Trade Mark: 

Test Model: D01

FCC ID: 2A66I-D01

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

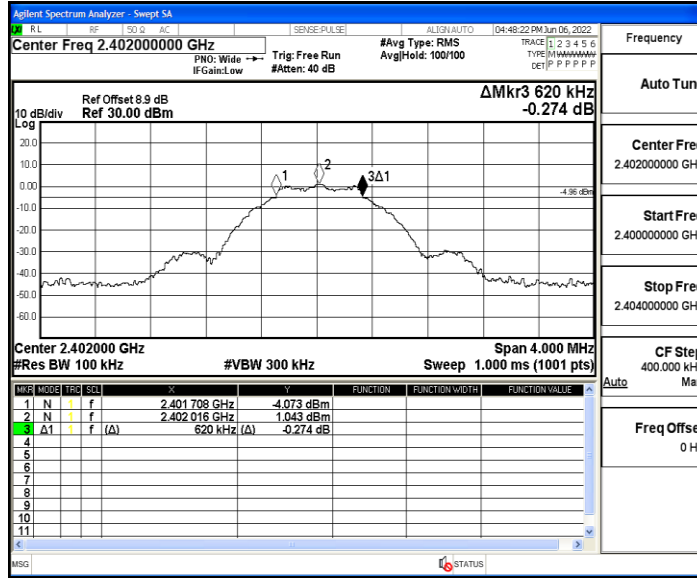
Appendix A: DTS Bandwidth

Test Result

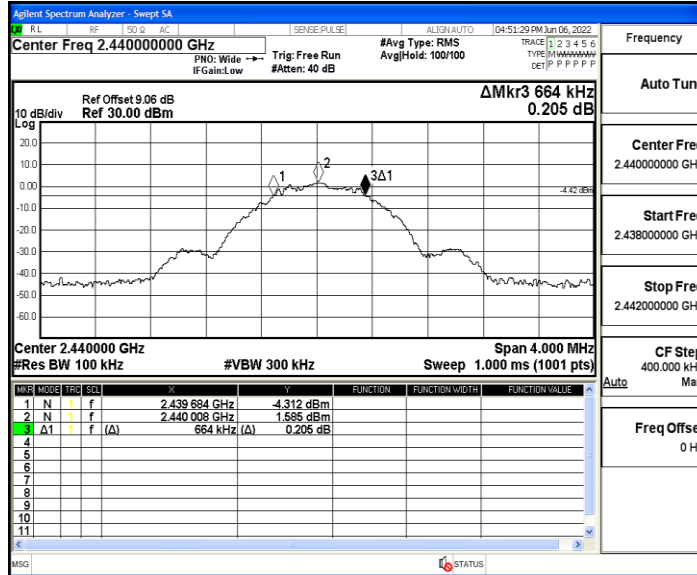
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.620	2401.708	2402.328	0.5	PASS
		2440	0.664	2439.684	2440.348	0.5	PASS
		2480	0.644	2479.696	2480.340	0.5	PASS

Test Graphs

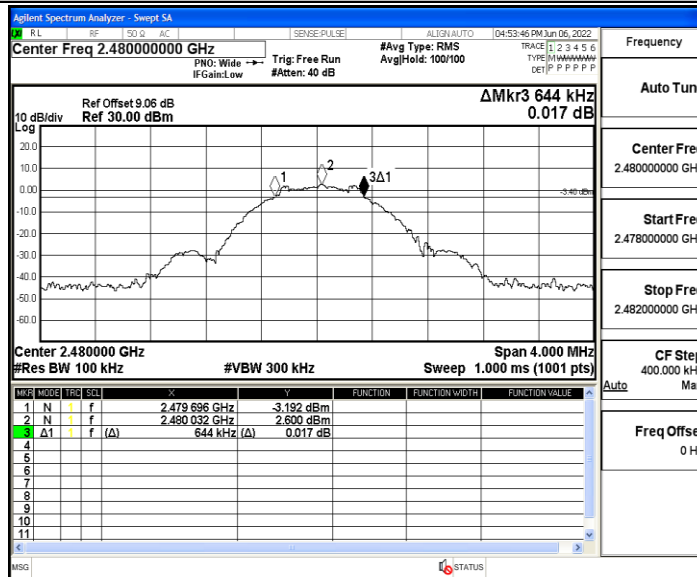
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



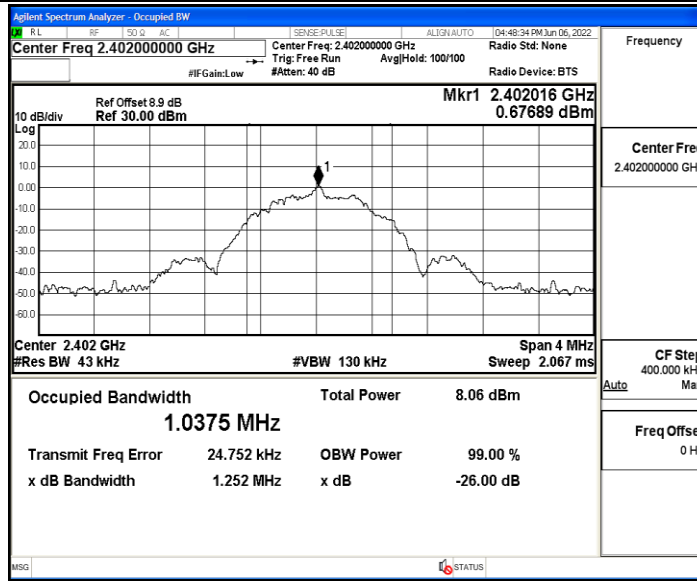
Appendix B: Occupied Channel Bandwidth

Test Result

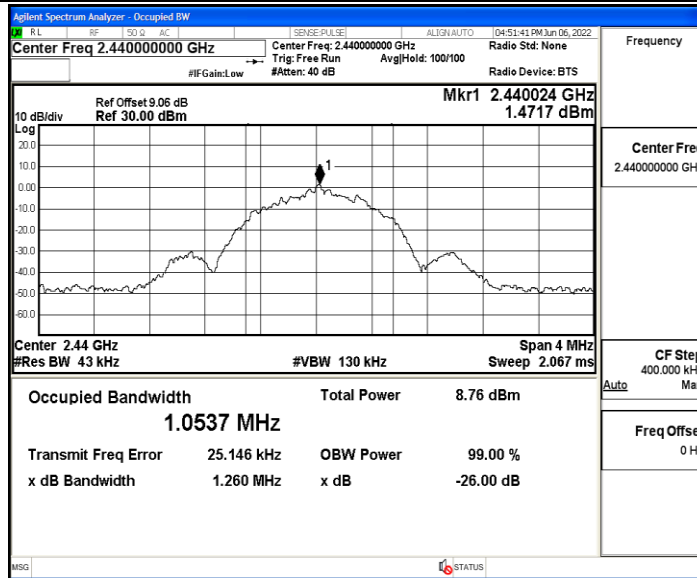
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0375	2401.506	2402.544	---	---
		2440	1.0537	2439.498	2440.552	---	---
		2480	1.0434	2479.506	2480.550	---	---

Test Graphs

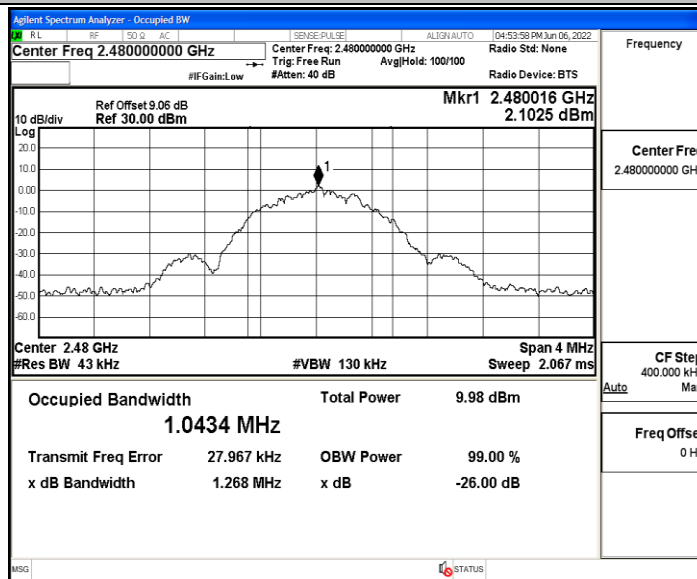
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

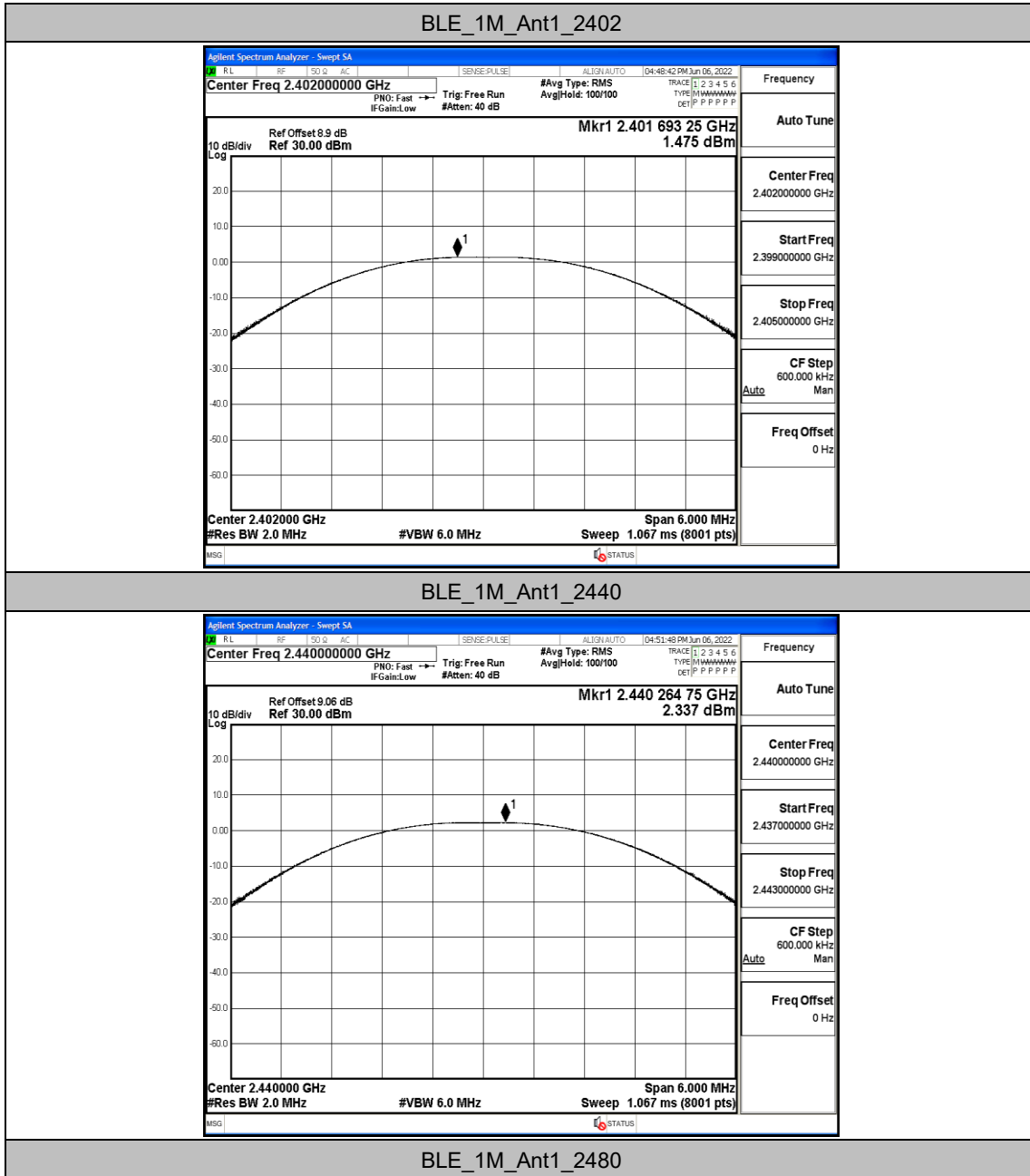


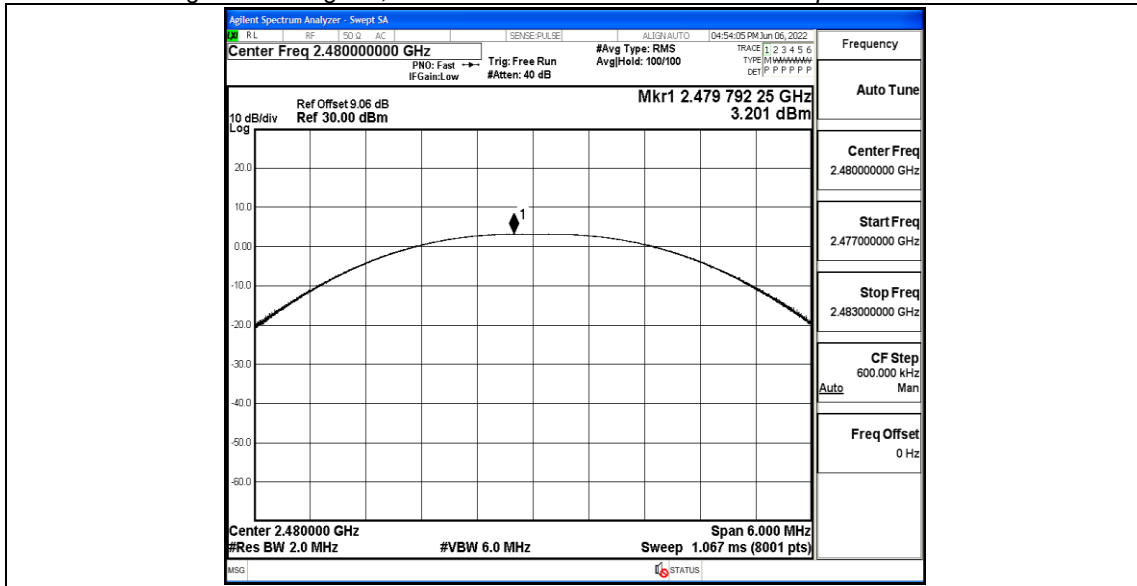
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.48	≤30	PASS
		2440	2.34	≤30	PASS
		2480	3.2	≤30	PASS

Test Graphs



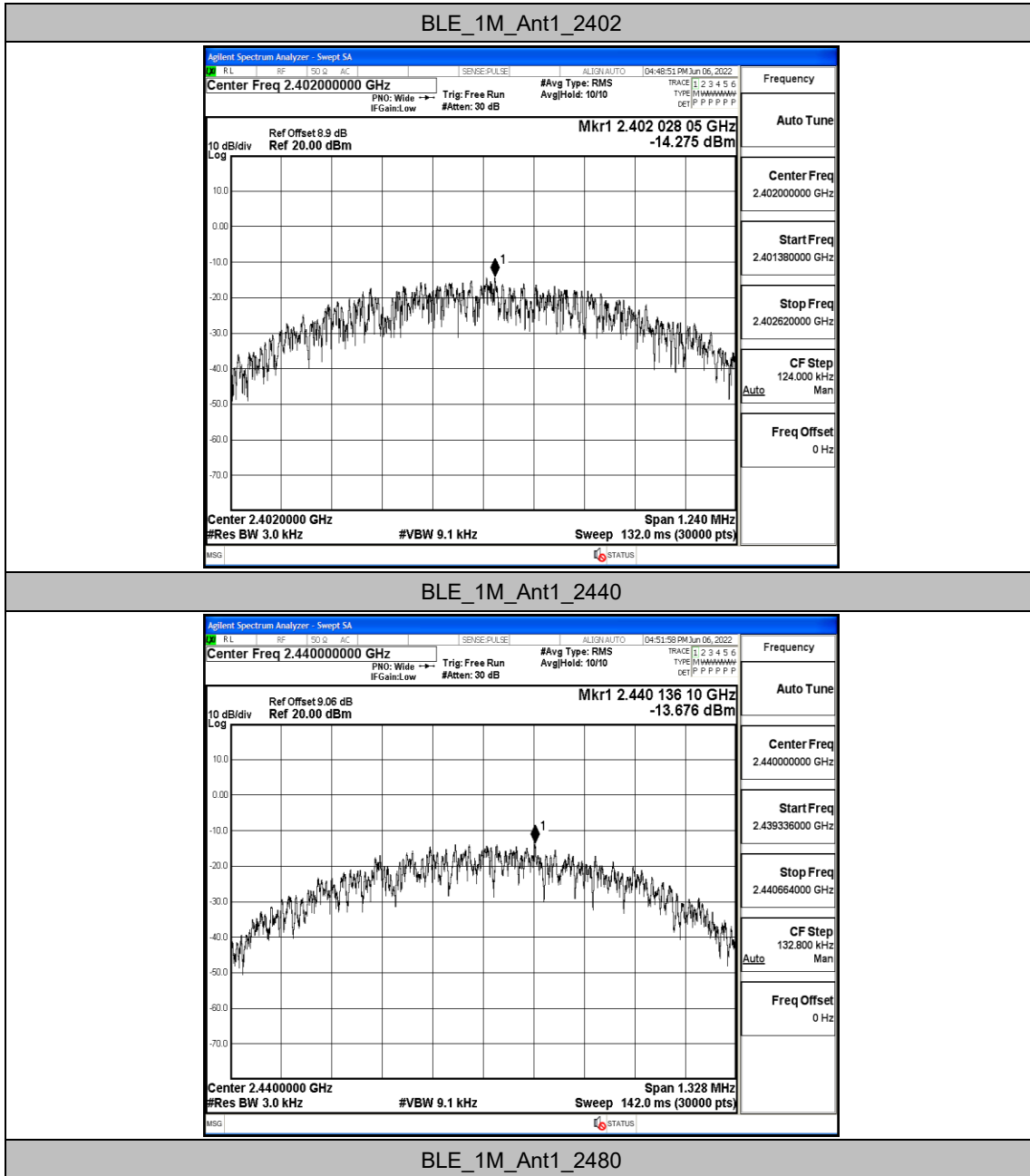


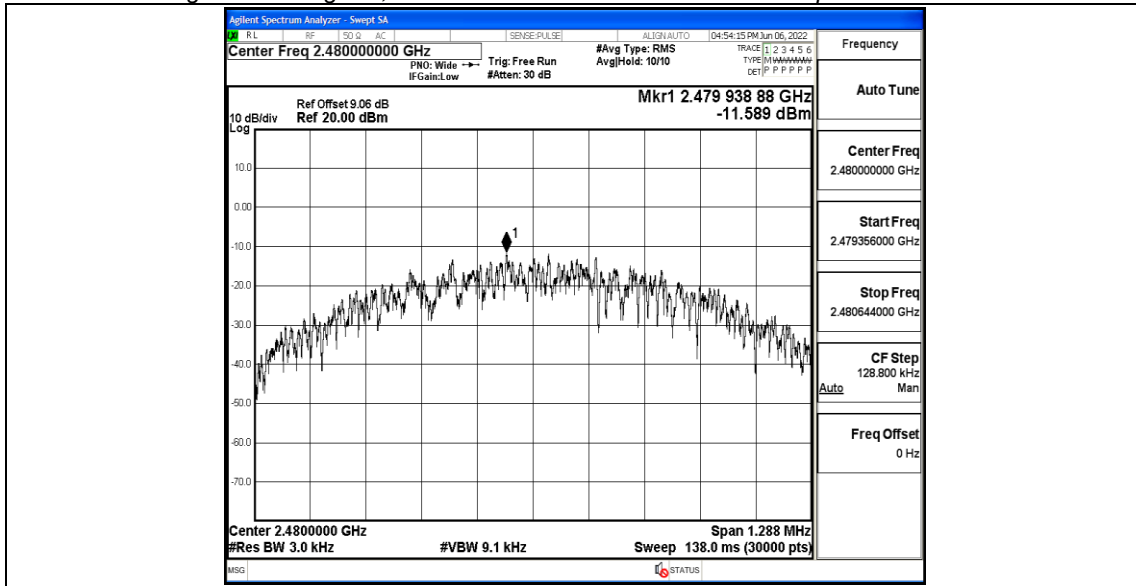
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.28	≤8.00	PASS
		2440	-13.68	≤8.00	PASS
		2480	-11.59	≤8.00	PASS

Test Graphs





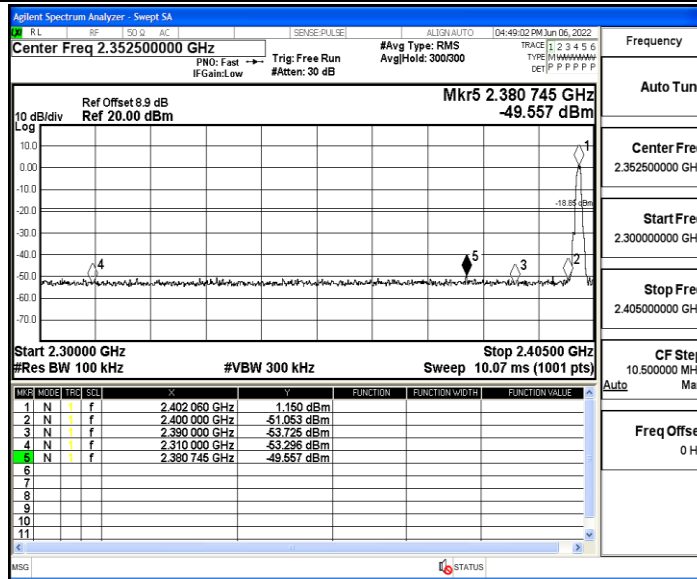
Appendix E: Band edge measurements

Test Result

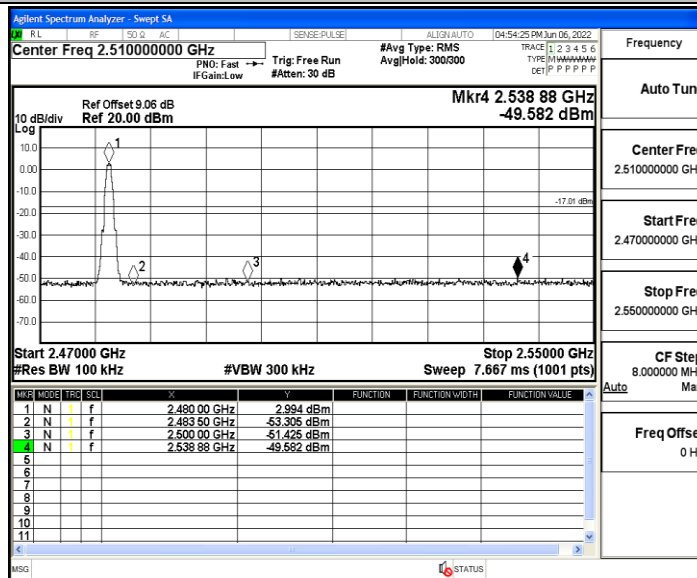
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.15	-49.56	≤-18.85	PASS
		High	2480	2.99	-49.58	≤-17.01	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

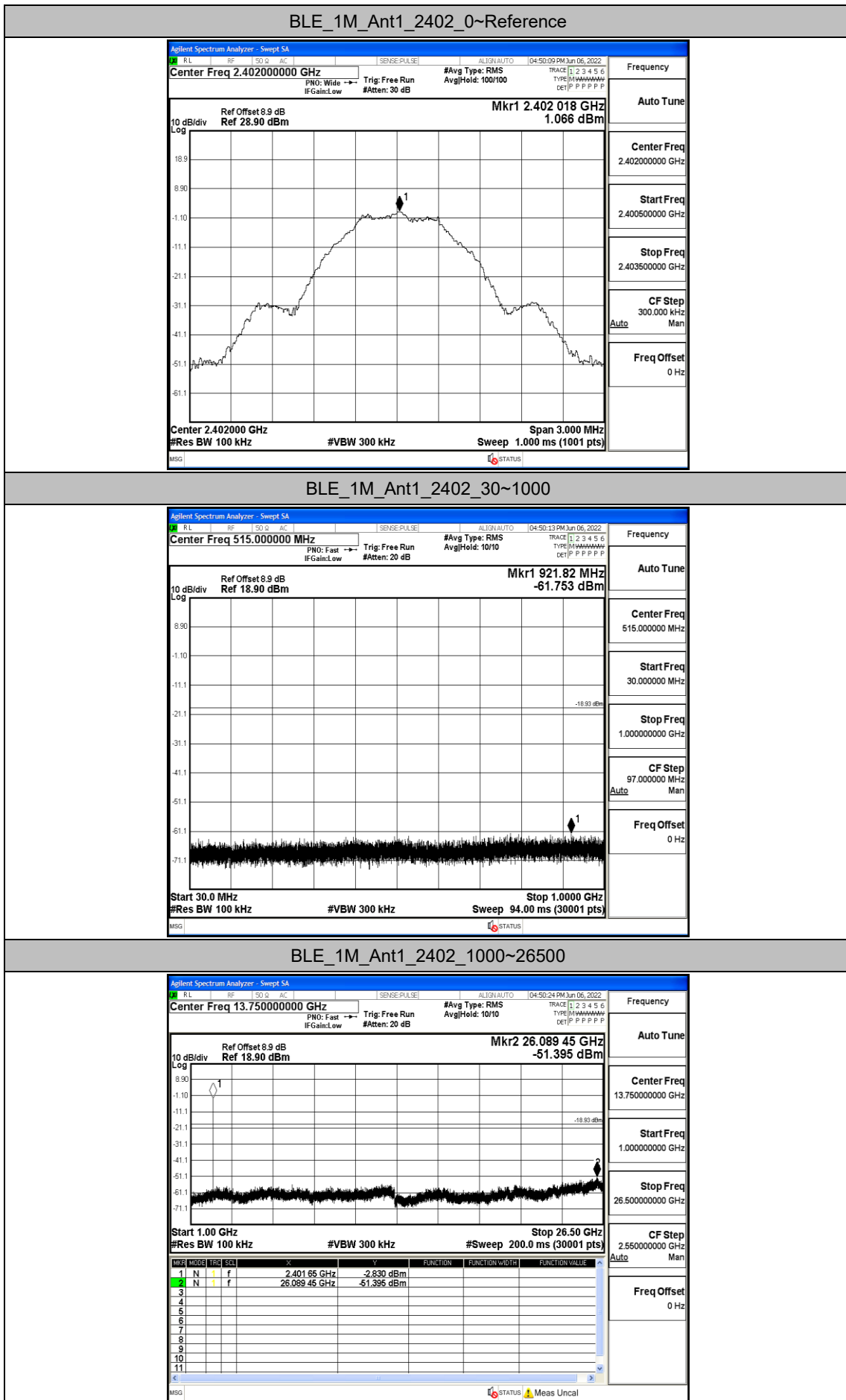


Appendix F: Conducted Spurious Emission

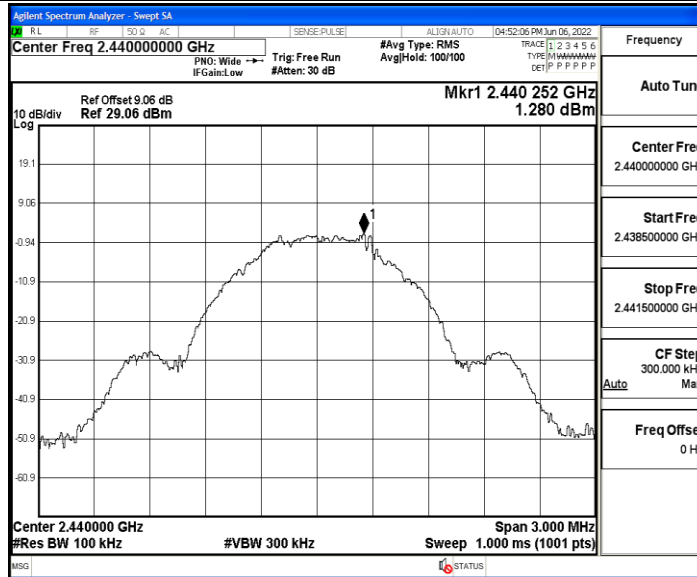
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	1.07	1.07	---	PASS
			30~1000	1.07	-61.75	≤-18.93	PASS
			1000~26500	1.07	-51.4	≤-18.93	PASS
		2440	Reference	1.28	1.28	---	PASS
			30~1000	1.28	-61.77	≤-18.72	PASS
			1000~26500	1.28	-51.83	≤-18.72	PASS
		2480	Reference	2.31	2.31	---	PASS
			30~1000	2.31	-60.72	≤-17.69	PASS
			1000~26500	2.31	-51.4	≤-17.69	PASS

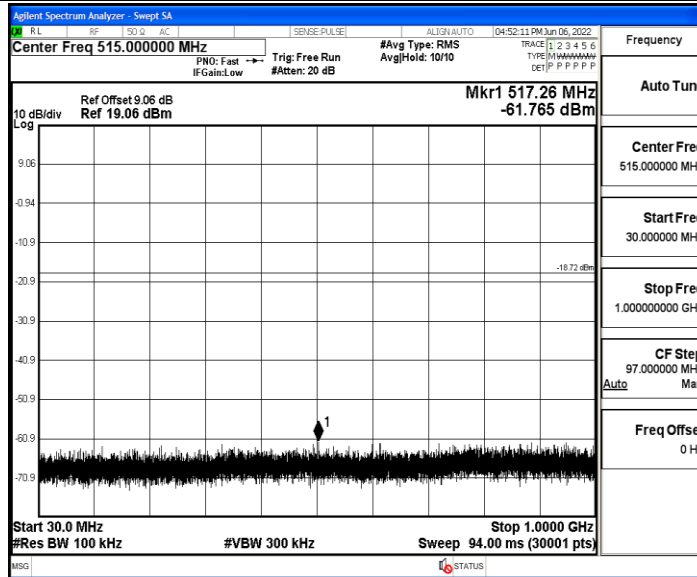
Test Graphs



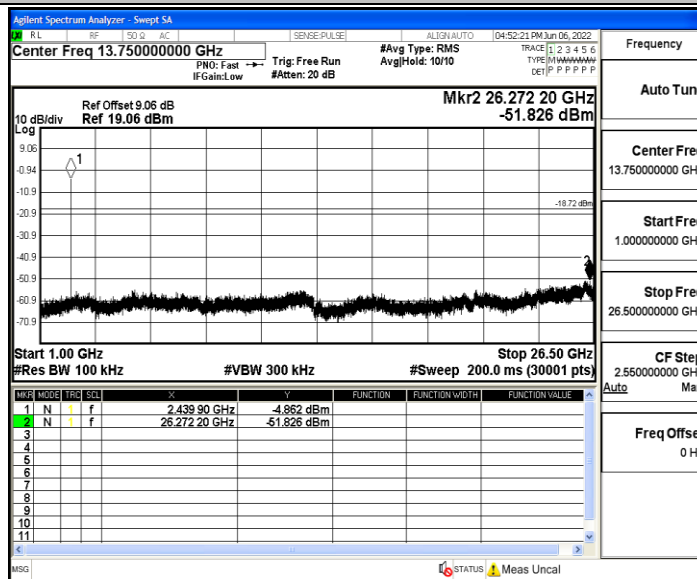
BLE_1M_Ant1_2440_0~Reference



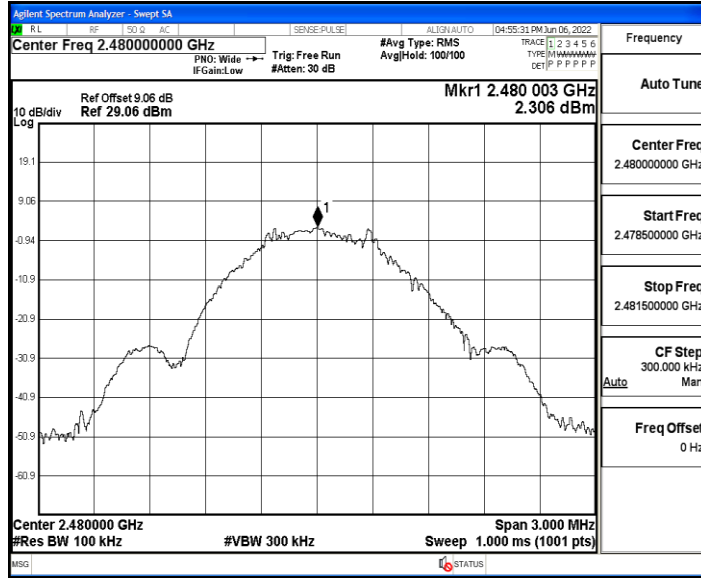
BLE_1M_Ant1_2440_30~1000



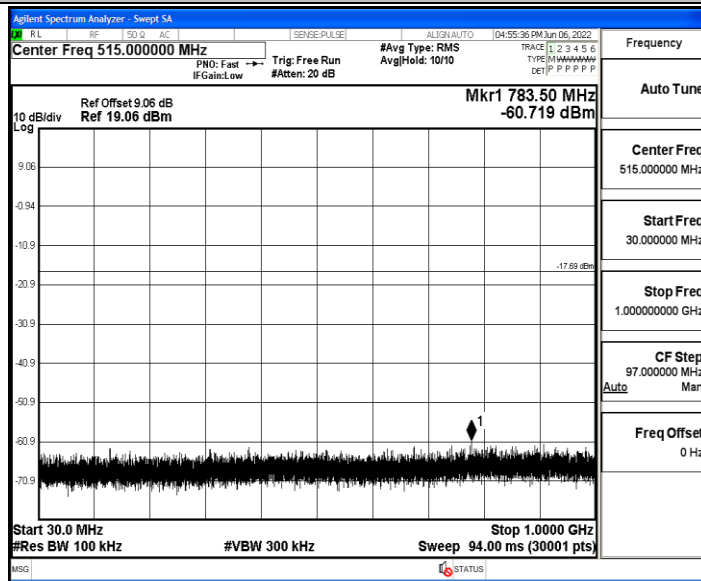
BLE_1M_Ant1_2440_1000~26500



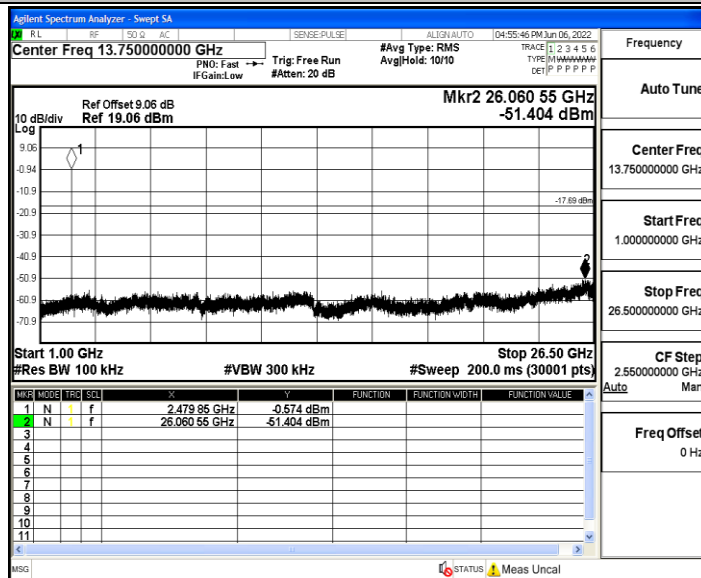
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



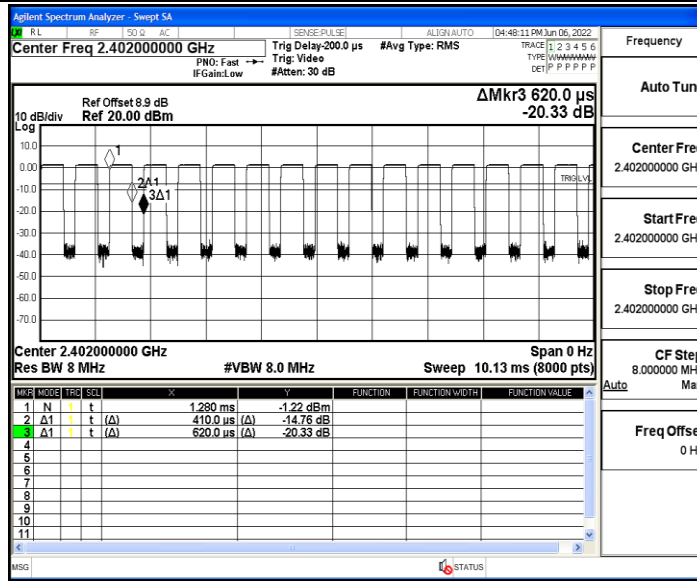
Appendix G: Duty Cycle

Test Result

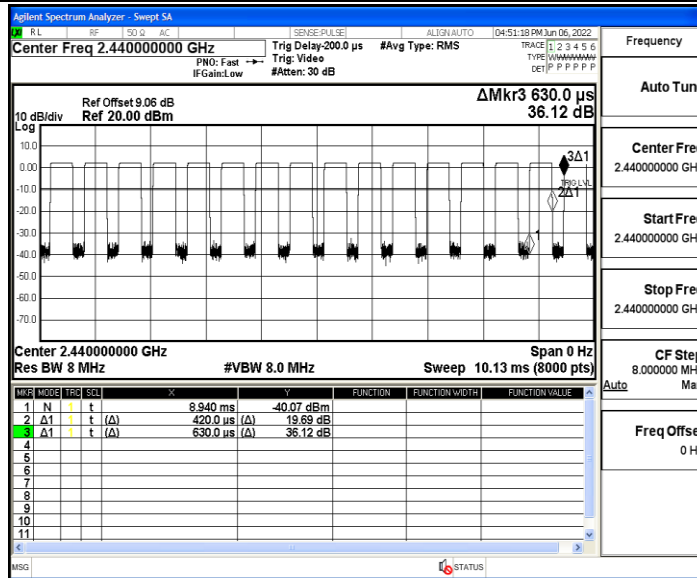
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
BLE_1M	Ant1	2402	0.41	0.62	66.13	2.44
		2440	0.42	0.63	66.67	2.38
		2480	0.42	0.63	66.67	2.38

Test Graphs

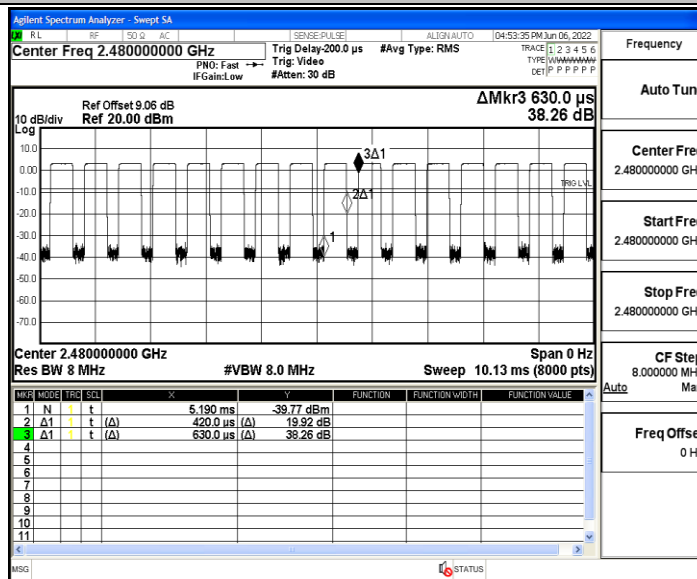
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix H: Emissions in Restricted Bands

Test Result

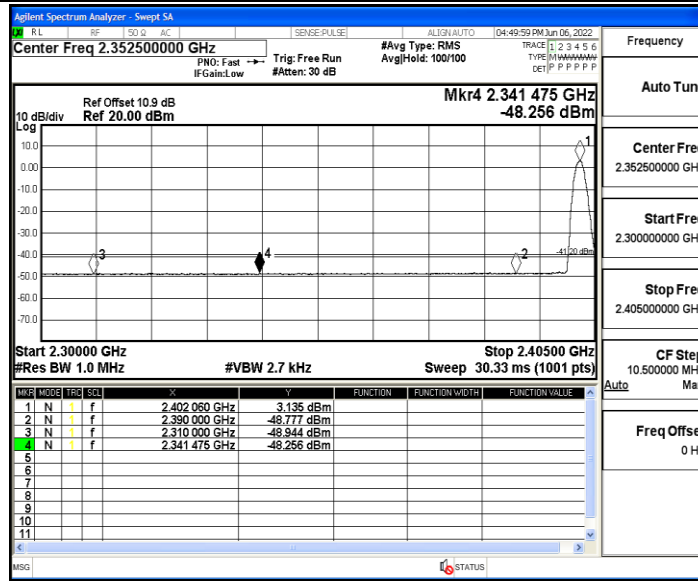
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-48.94	≤-41.20	PASS
				AV	2341.475	-48.26	≤-41.20	PASS
				AV	2390.000	-48.78	≤-41.20	PASS
				Peak	2310.000	-41.22	≤-21.20	PASS
				Peak	2337.590	-39.44	≤-21.20	PASS
				Peak	2390.000	-41.92	≤-21.20	PASS
		High	2480	AV	2483.500	-46.71	≤-41.20	PASS
				AV	2483.520	-46.71	≤-41.20	PASS
				AV	2500.000	-48.03	≤-41.20	PASS
				Peak	2483.500	-41.4	≤-21.20	PASS
				Peak	2484.560	-38.54	≤-21.20	PASS
				Peak	2500.000	-40.75	≤-21.20	PASS

Note:

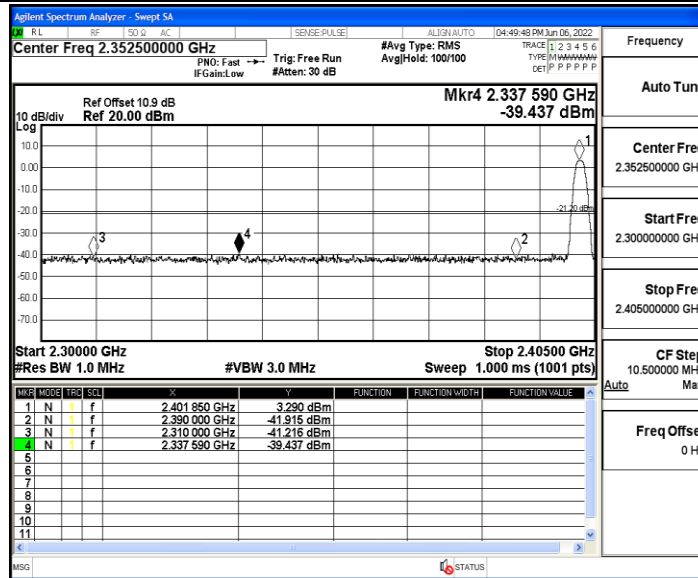
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

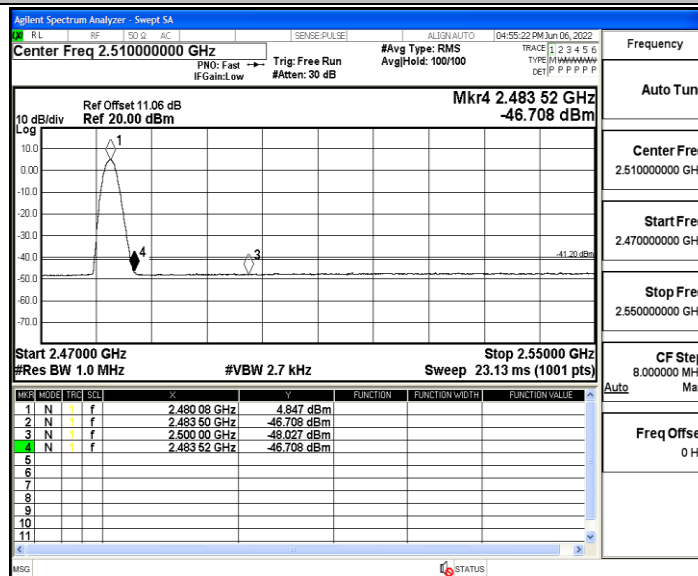
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

