

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

Product Name: VITURE One Neckband

Trade Mark: **VITURE**

Test Model: V1218

FCC ID: 2BBOT-V1218

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

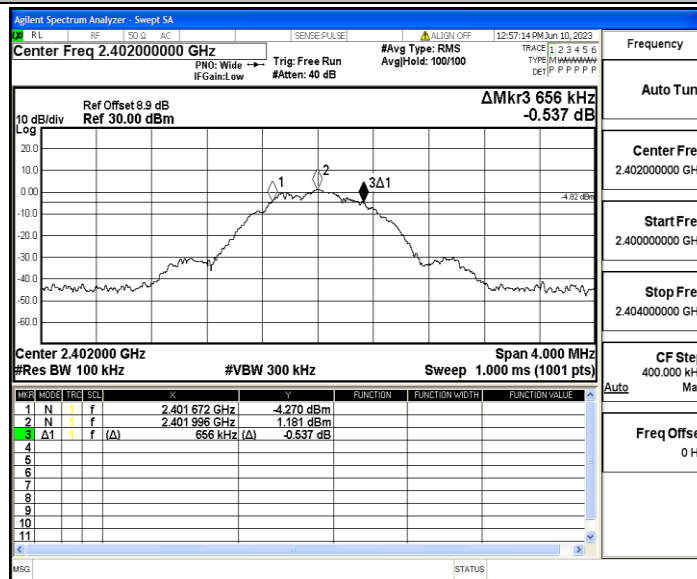
Appendix A: DTS Bandwidth

Test Result

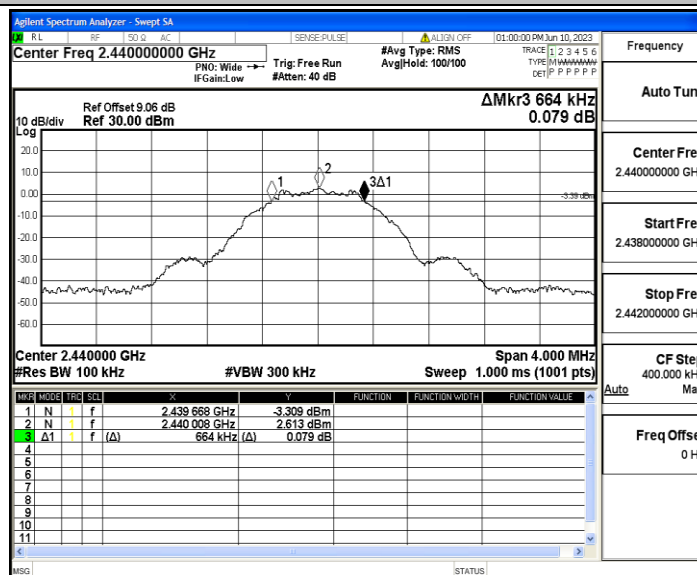
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.656	2401.672	2402.328	0.5	PASS
		2440	0.664	2439.668	2440.332	0.5	PASS
		2480	0.656	2479.668	2480.324	0.5	PASS

Test Graphs

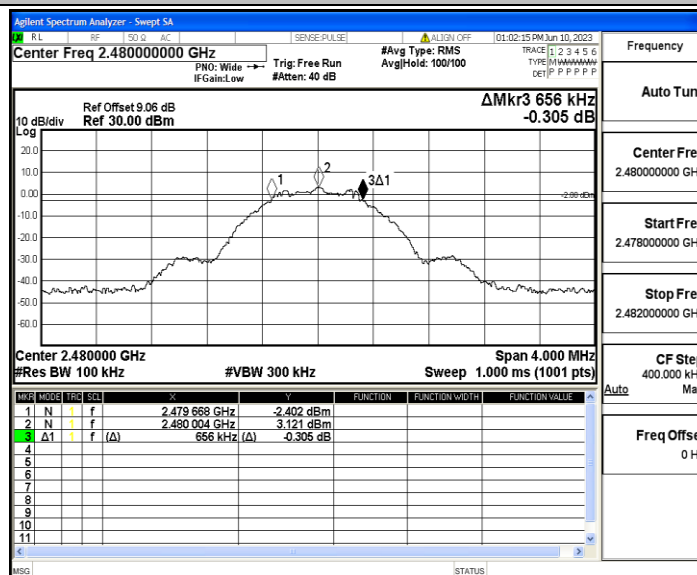
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



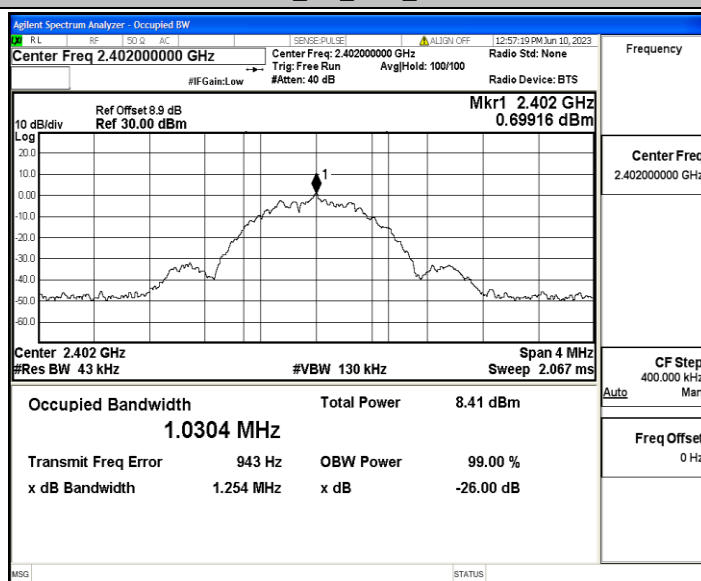
Appendix B: Occupied Channel Bandwidth

Test Result

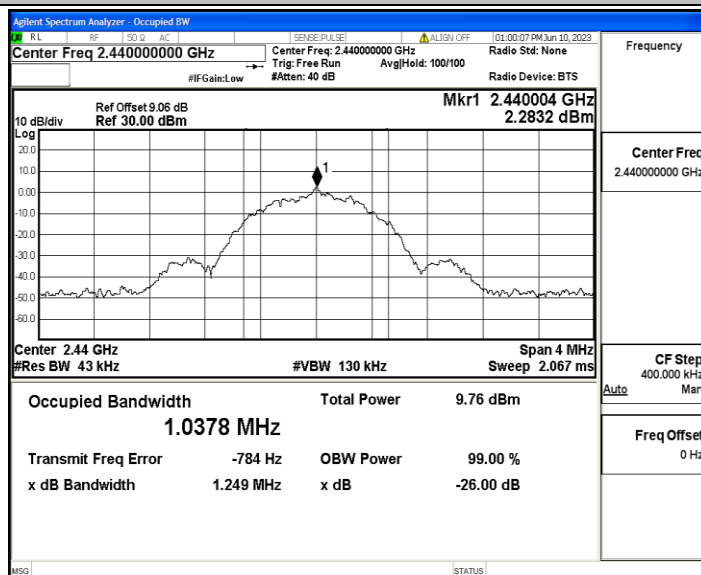
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0304	2401.4857	2402.5161	---	---
		2440	1.0378	2439.4803	2440.5181	---	---
		2480	1.0209	2479.4856	2480.5065	---	---

Test Graphs

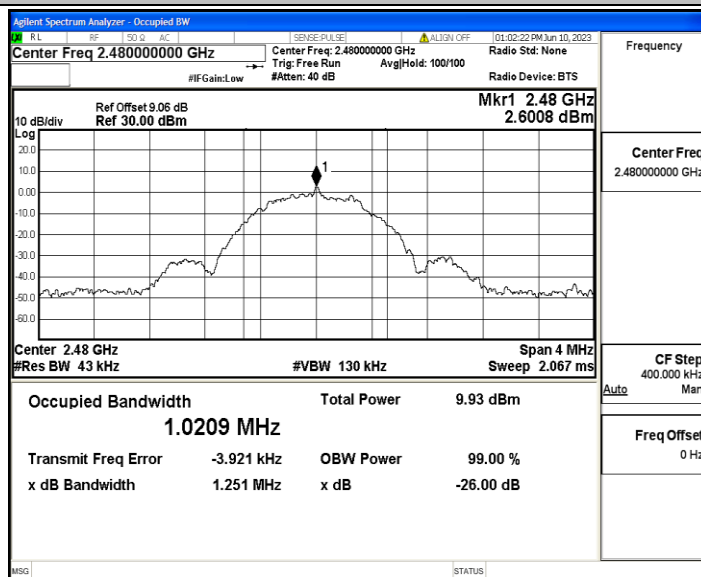
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



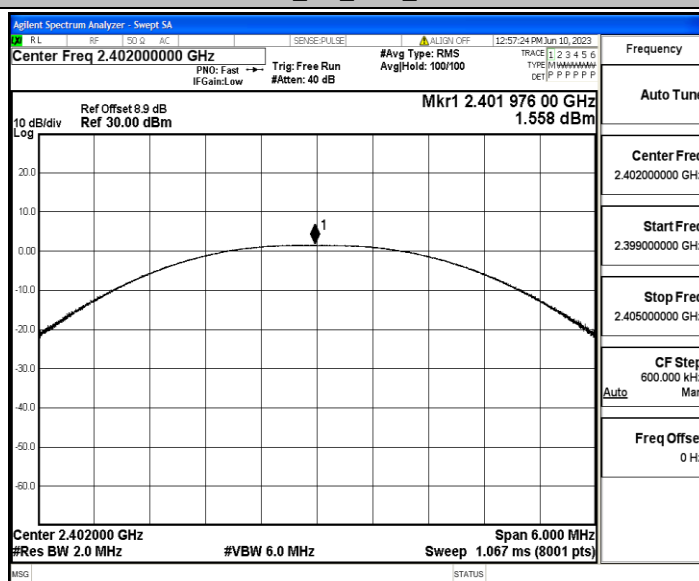
Appendix C: Maximum Peak conducted output power

Test Result

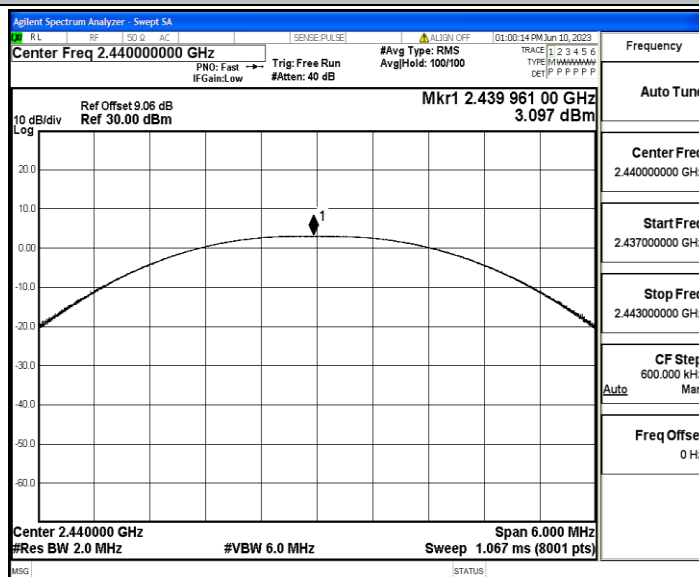
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.56	≤30	PASS
		2440	3.1	≤30	PASS
		2480	3.5	≤30	PASS

Test Graphs

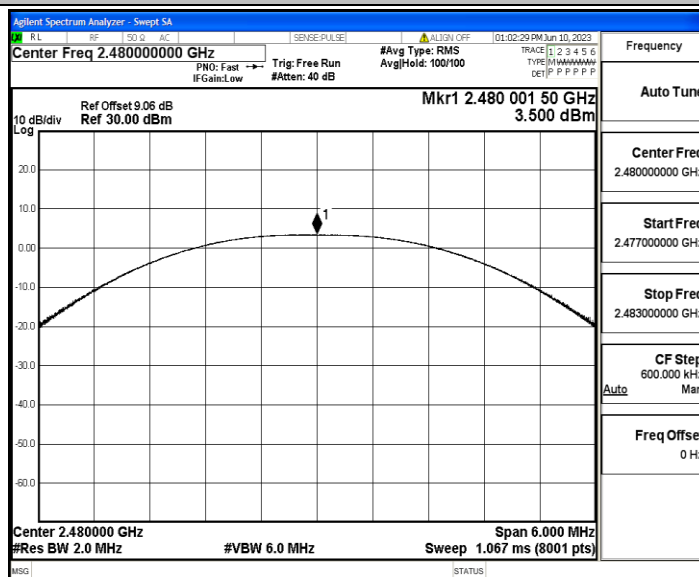
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



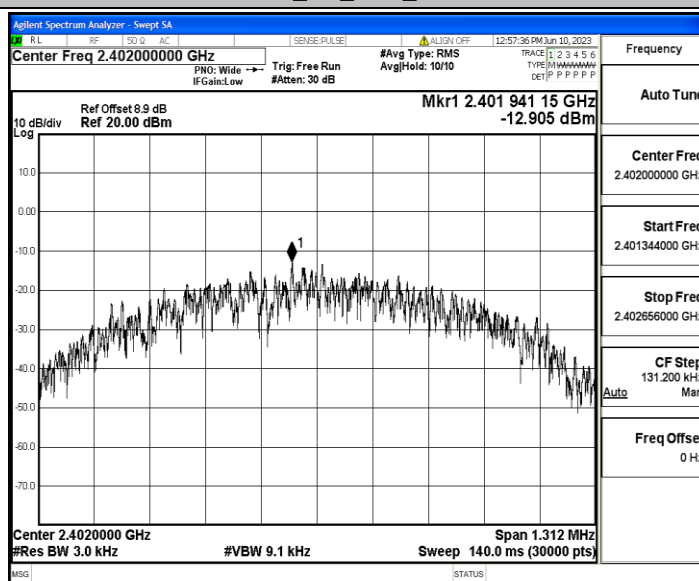
Appendix D: Maximum power spectral density

Test Result

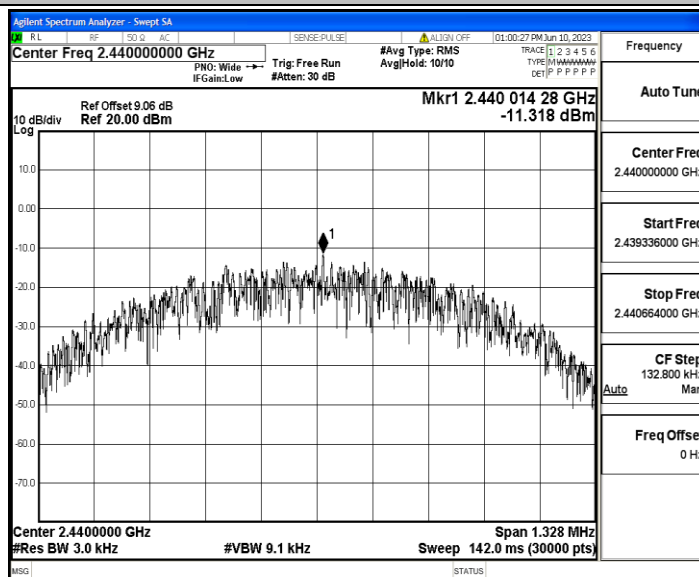
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.91	≤8.00	PASS
		2440	-11.32	≤8.00	PASS
		2480	-12.13	≤8.00	PASS

Test Graphs

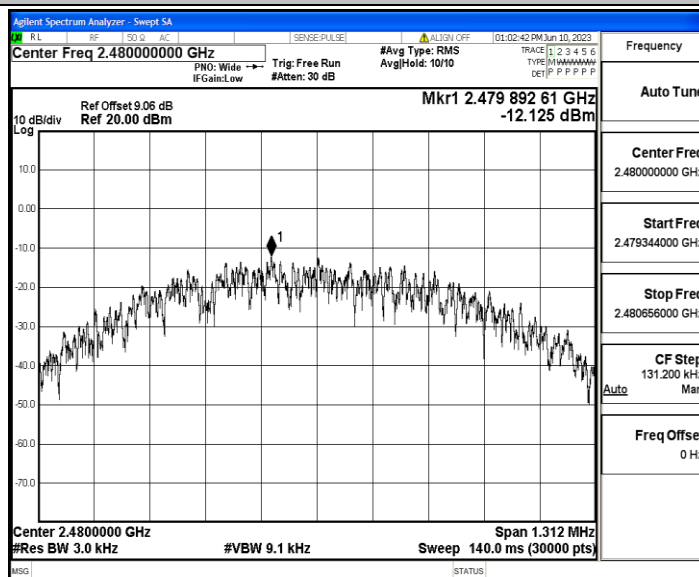
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



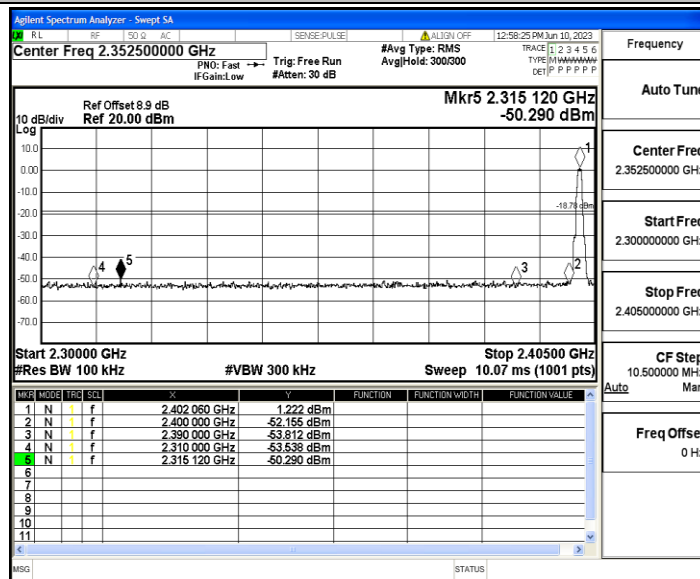
Appendix E: Band edge measurements

Test Result

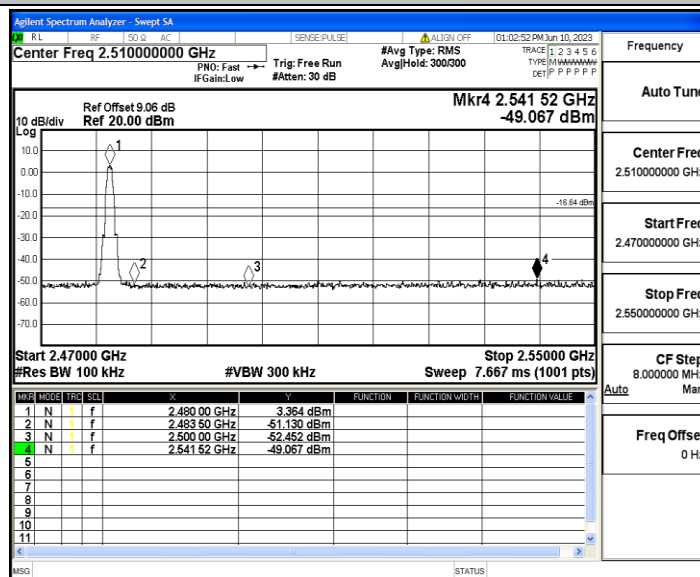
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.22	-50.29	≤-18.78	PASS
		High	2480	3.36	-49.07	≤-16.64	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



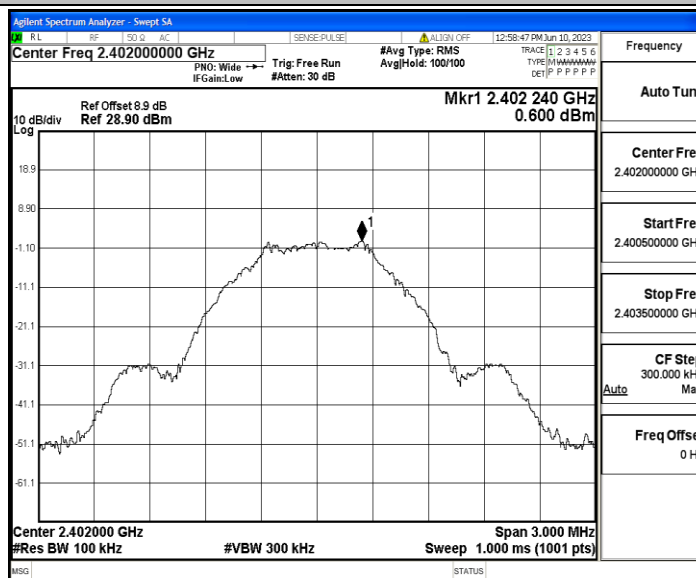
Appendix F: Conducted Spurious Emission

Test Result

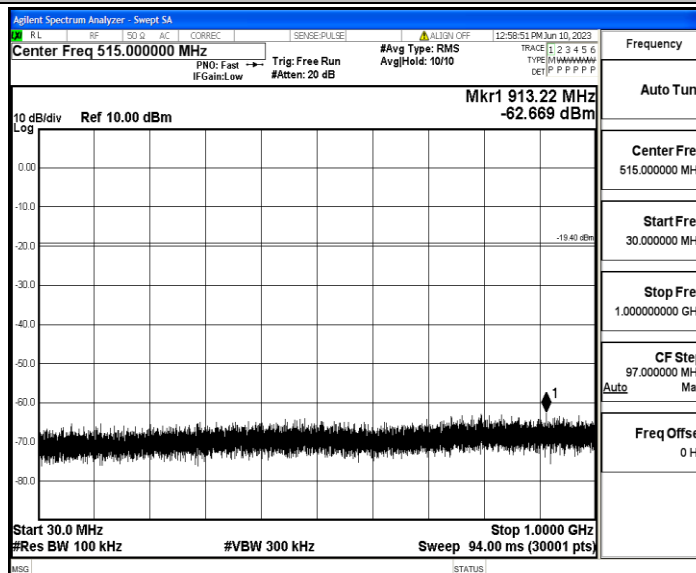
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.60	0.60	---	PASS
			30~1000	0.60	-62.67	≤-19.4	PASS
			1000~26500	0.60	-44.85	≤-19.4	PASS
		2440	Reference	2.11	2.11	---	PASS
			30~1000	2.11	-61.8	≤-17.89	PASS
			1000~26500	2.11	-48.65	≤-17.89	PASS
		2480	Reference	3.03	3.03	---	PASS
			30~1000	3.03	-62.23	≤-16.97	PASS
			1000~26500	3.03	-51.03	≤-16.97	PASS

Test Graphs

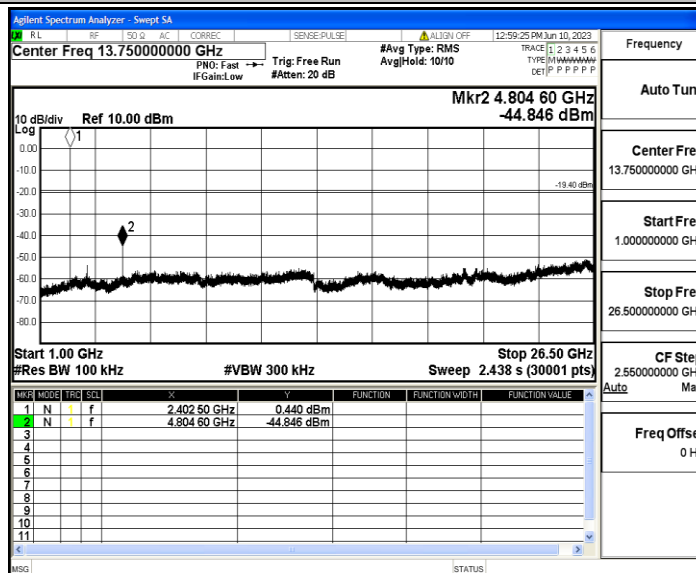
BLE_1M_Ant1_2402_0~Reference



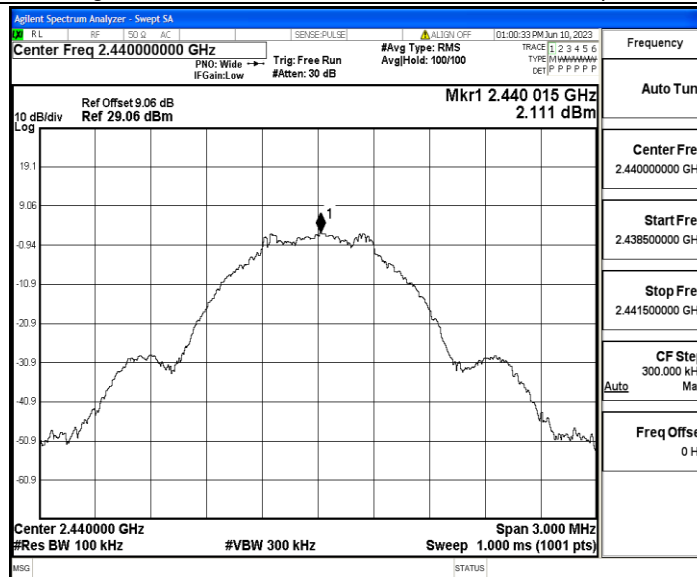
BLE_1M_Ant1_2402_30~1000



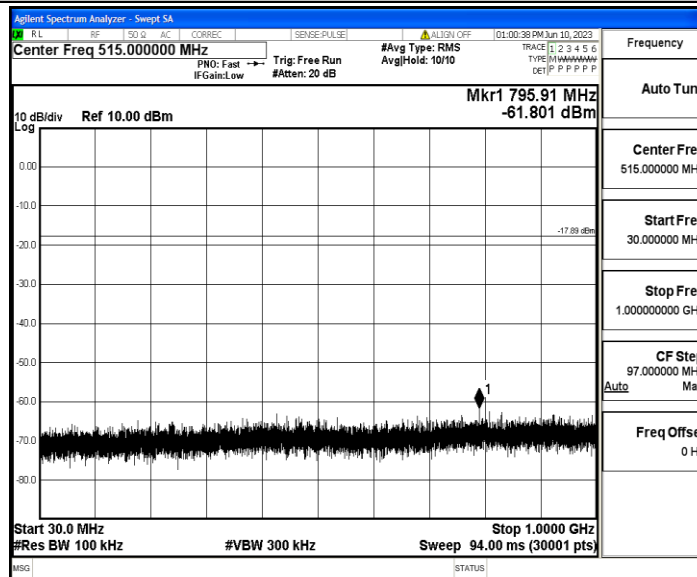
BLE_1M_Ant1_2402_1000~26500



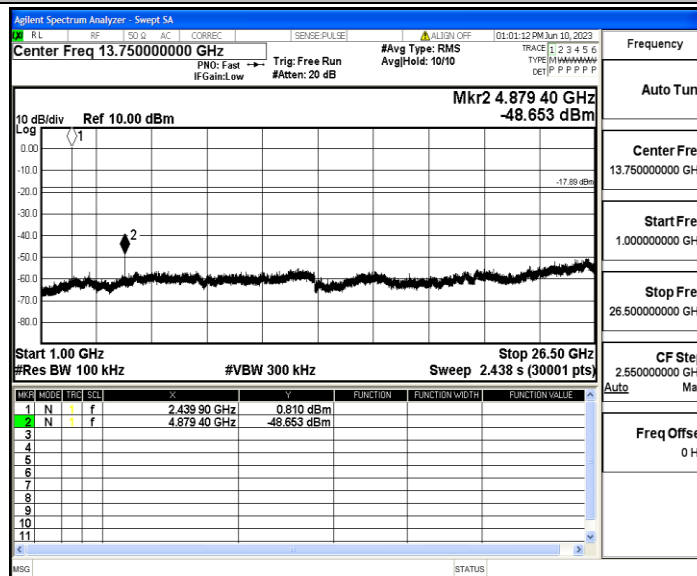
BLE_1M_Ant1_2440_0~Reference



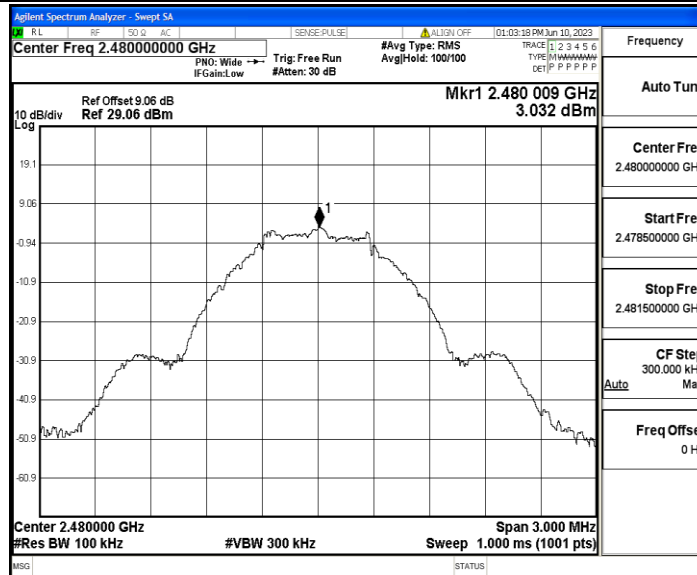
BLE_1M_Ant1_2440_30~1000



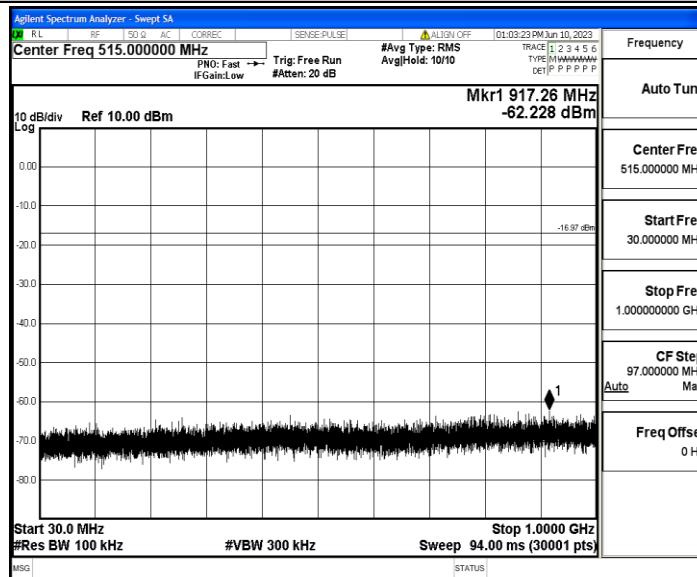
BLE_1M_Ant1_2440_1000~26500



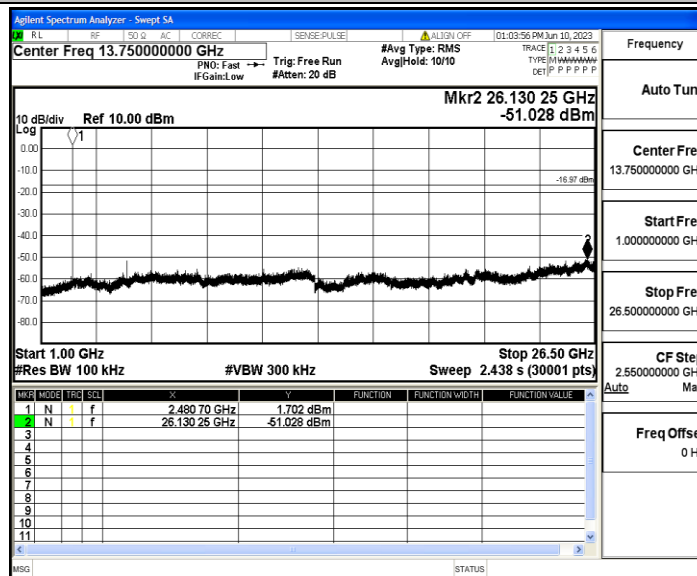
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

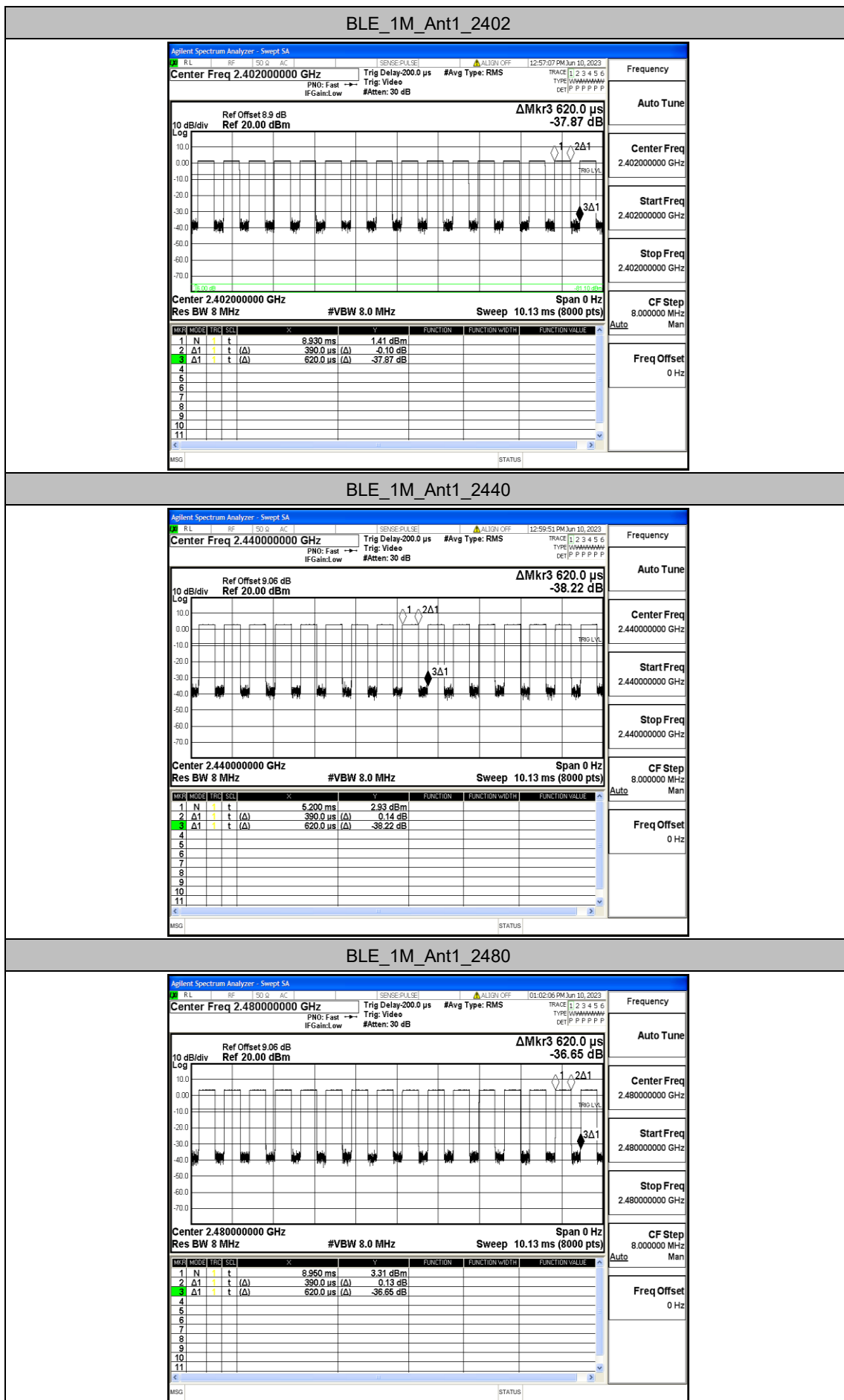


Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
BLE_1M	Ant1	2402	0.39	0.62	62.90	2.56
		2440	0.39	0.62	62.90	2.56
		2480	0.39	0.62	62.90	2.56

Test Graphs



Appendix H: Emissions in Restricted Bands

Test Result

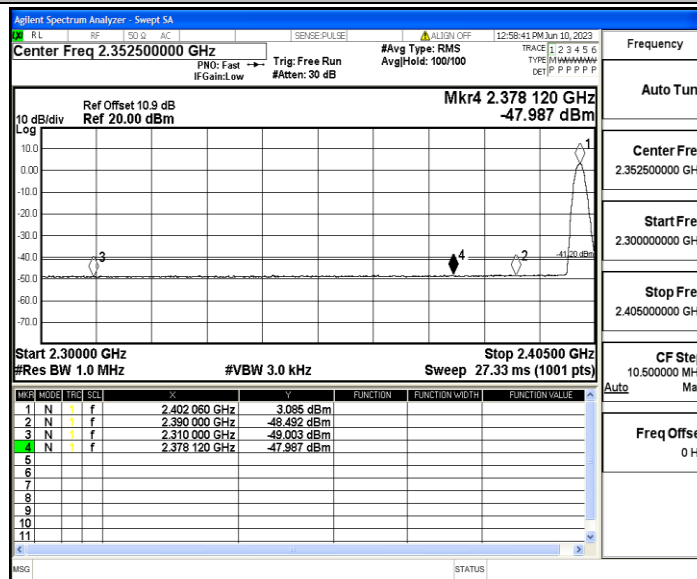
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-49	≤ -41.20	PASS
				AV	2378.120	-47.99	≤ -41.20	PASS
				AV	2390.000	-48.49	≤ -41.20	PASS
				Peak	2310.000	-42.44	≤ -21.20	PASS
				Peak	2322.785	-39.13	≤ -21.20	PASS
				Peak	2390.000	-43.66	≤ -21.20	PASS
		High	2480	AV	2483.500	-46.91	≤ -41.20	PASS
				AV	2483.520	-46.91	≤ -41.20	PASS
				AV	2500.000	-47.87	≤ -41.20	PASS
				Peak	2483.500	-40.65	≤ -21.20	PASS
				Peak	2498.160	-38.49	≤ -21.20	PASS
				Peak	2500.000	-41.48	≤ -21.20	PASS

Note:

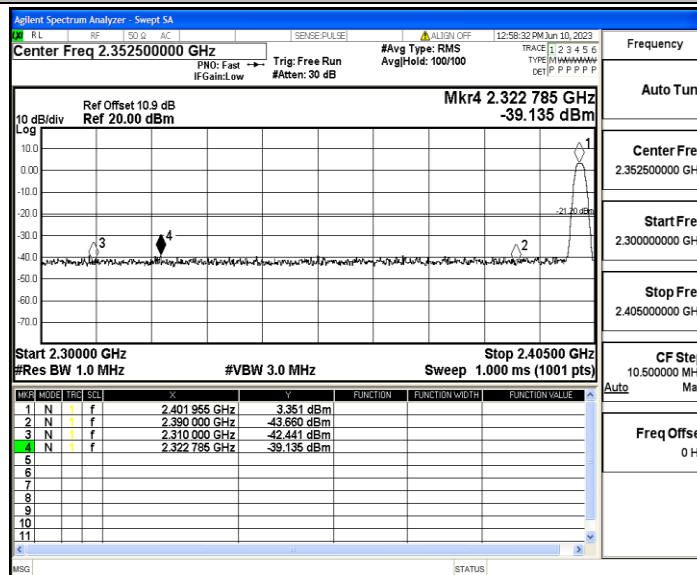
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

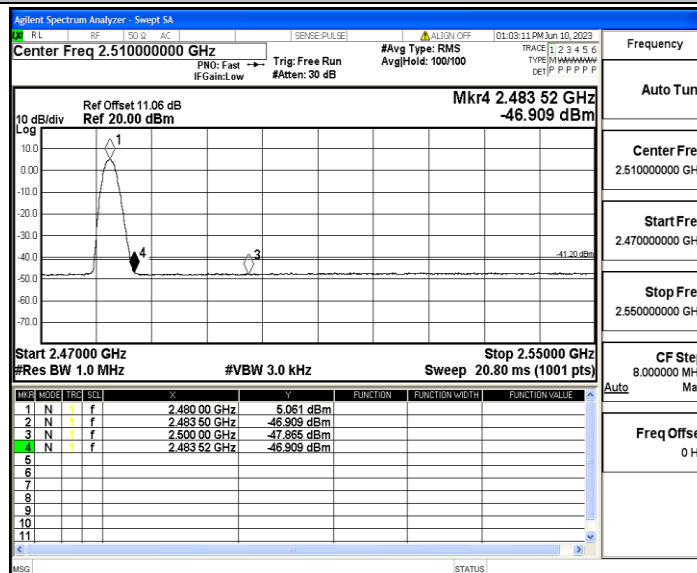
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

