

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

Product Name: 3-AXIS GIMBAL STABILIZER

Trade Mark: TETFIT

Test Model: M01

FCC ID: 2ASXW-M01

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

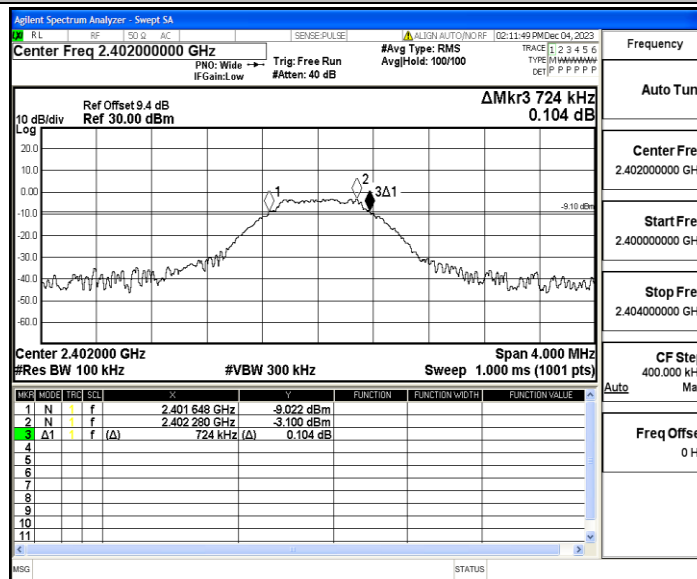
Appendix A: DTS Bandwidth

Test Result

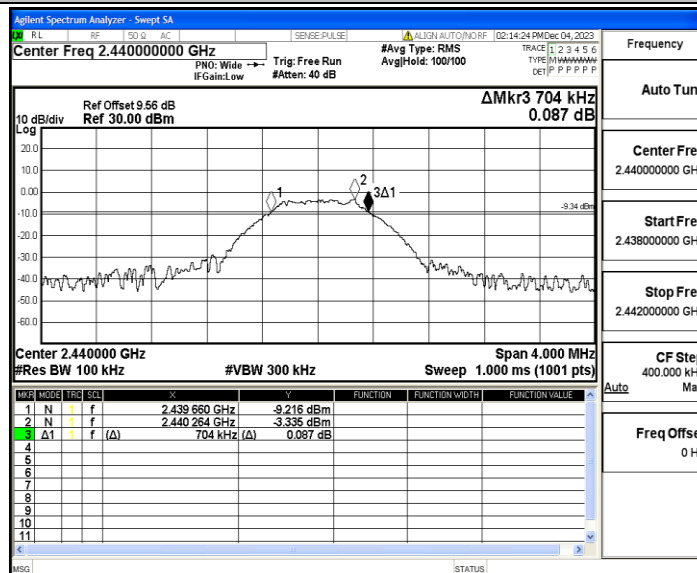
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.724	2401.648	2402.372	0.5	PASS
		2440	0.704	2439.660	2440.364	0.5	PASS
		2480	0.732	2479.648	2480.380	0.5	PASS

Test Graphs

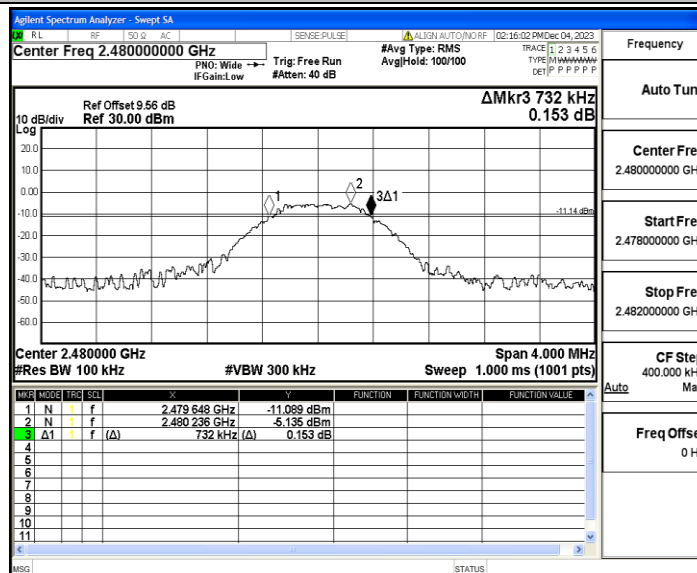
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



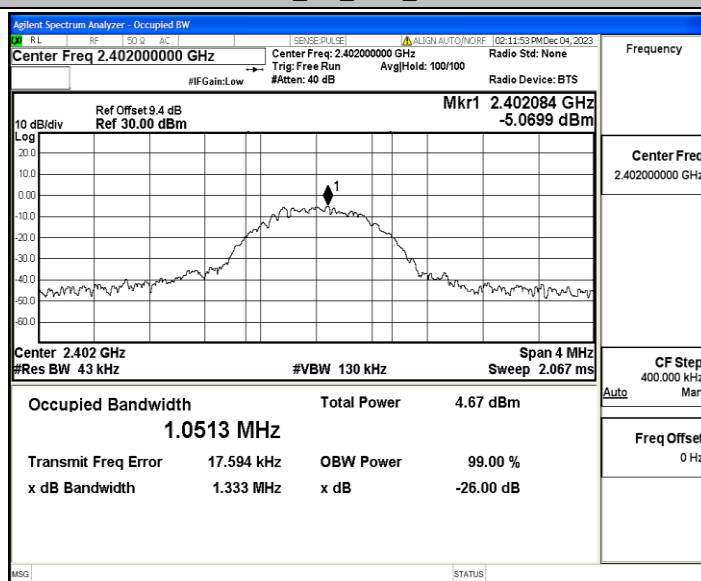
Appendix B: Occupied Channel Bandwidth

Test Result

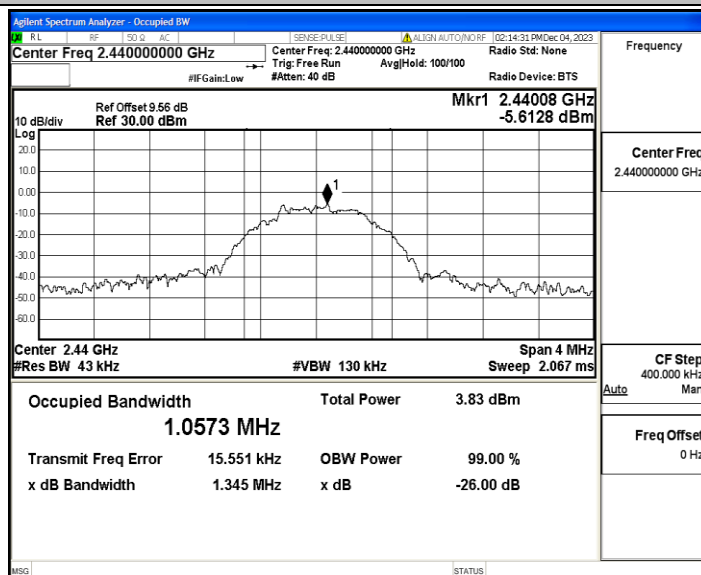
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0513	2401.4919	2402.5432	---	---
		2440	1.0573	2439.4869	2440.5442	---	---
		2480	1.0447	2479.4926	2480.5373	---	---

Test Graphs

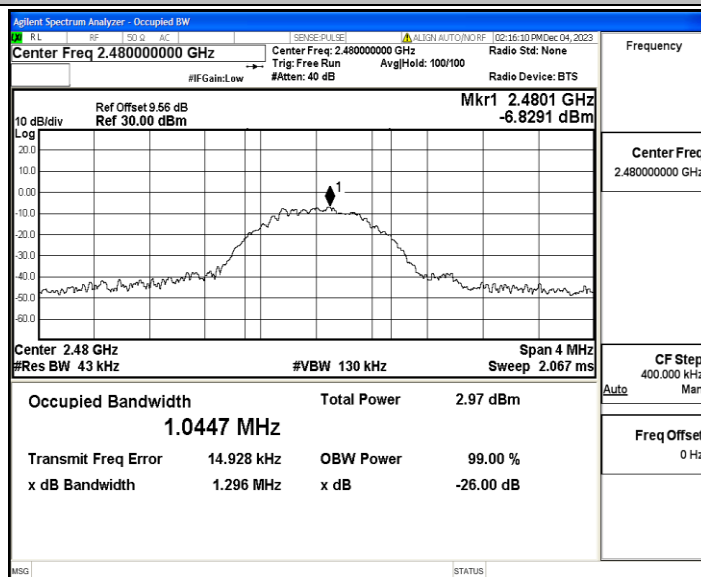
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



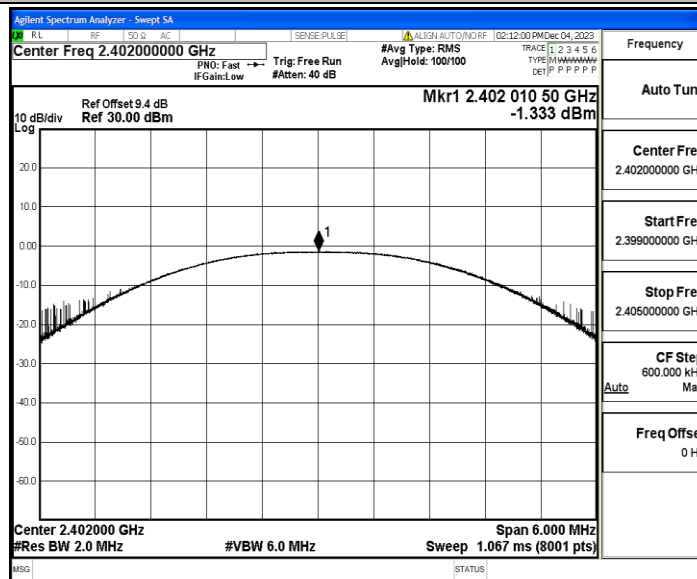
Appendix C: Maximum Peak conducted output power

Test Result

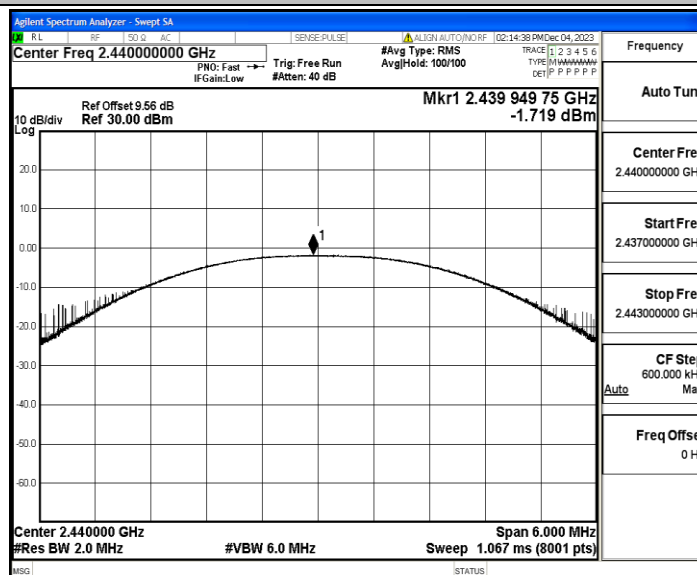
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.33	≤30	PASS
		2440	-1.72	≤30	PASS
		2480	-3.13	≤30	PASS

Test Graphs

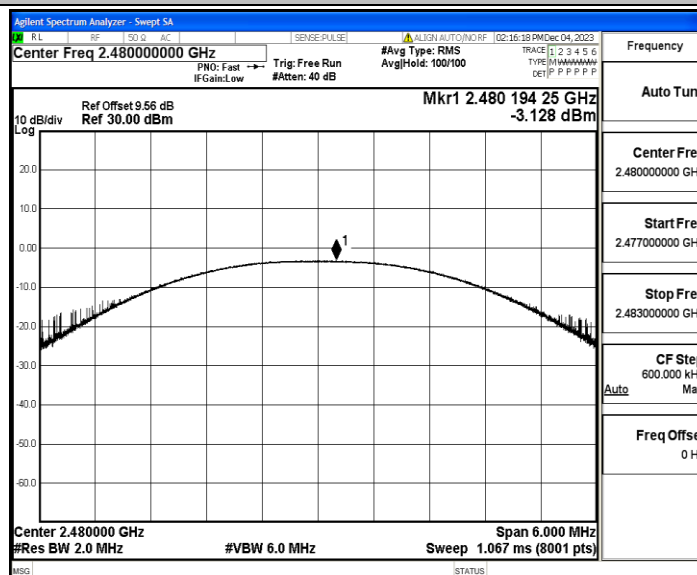
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



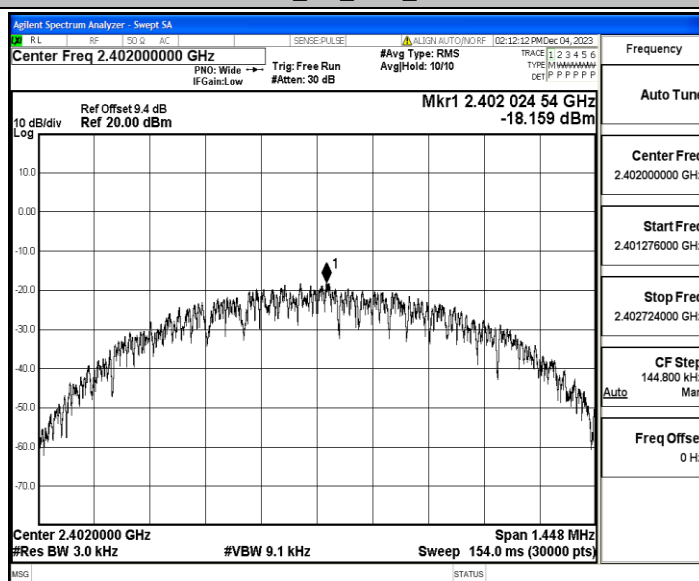
Appendix D: Maximum power spectral density

Test Result

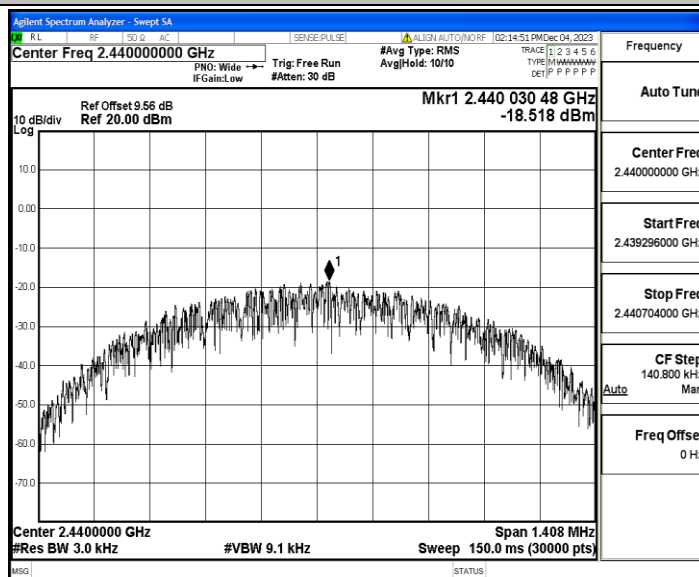
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.16	≤8.00	PASS
		2440	-18.52	≤8.00	PASS
		2480	-19.81	≤8.00	PASS

Test Graphs

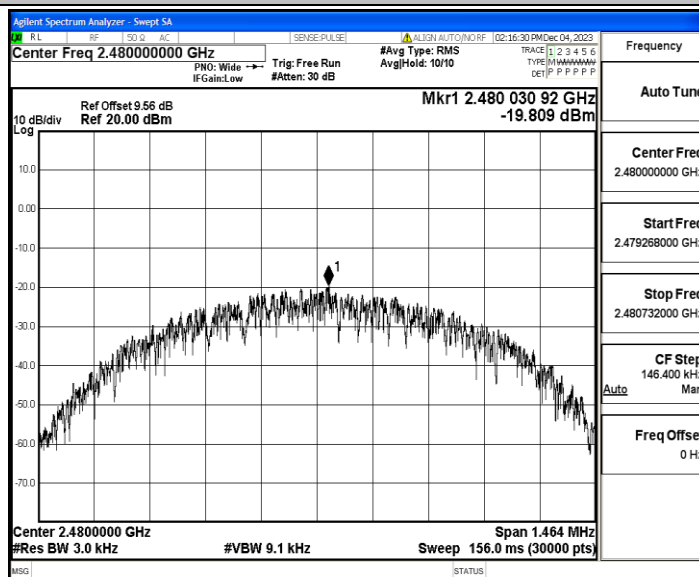
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



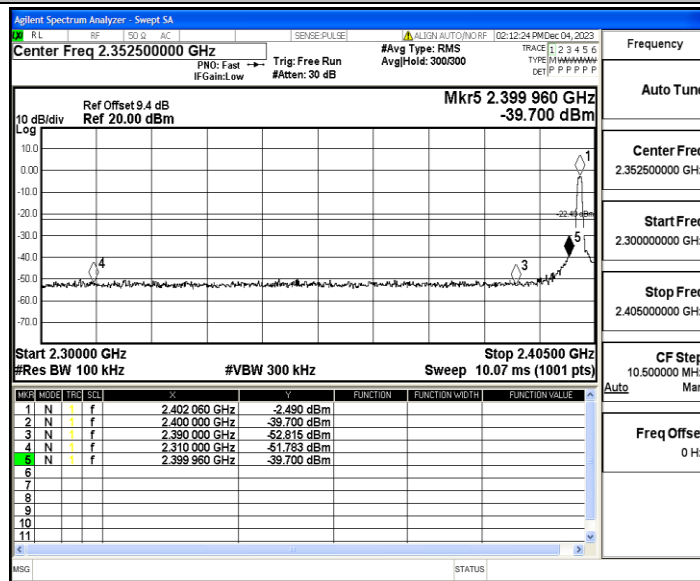
Appendix E: Band edge measurements

Test Result

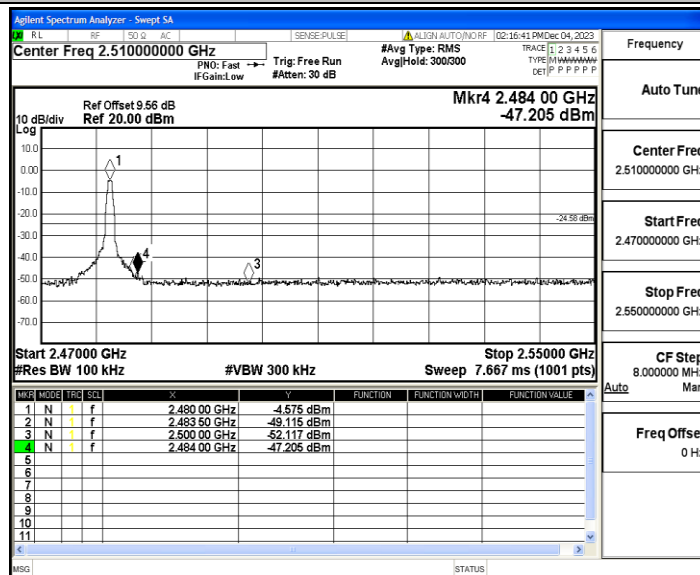
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.49	-39.7	≤-22.49	PASS
		High	2480	-4.58	-47.21	≤-24.58	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



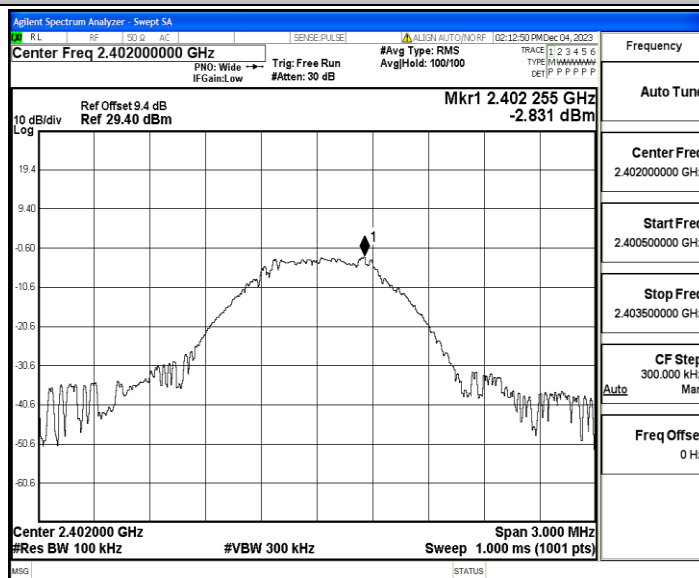
Appendix F: Conducted Spurious Emission

Test Result

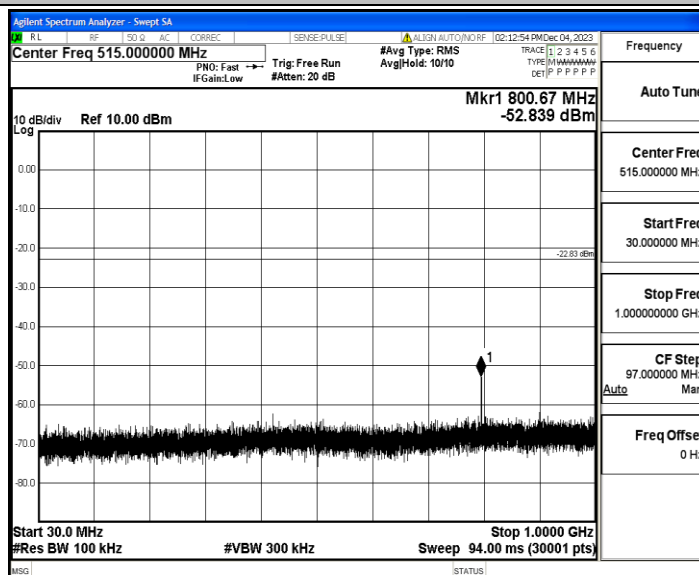
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.83	-2.83	---	PASS
			30~1000	-2.83	-52.84	≤-22.83	PASS
			1000~26500	-2.83	-33.99	≤-22.83	PASS
		2440	Reference	-3.31	-3.31	---	PASS
			30~1000	-3.31	-51.56	≤-23.31	PASS
			1000~26500	-3.31	-33.02	≤-23.31	PASS
		2480	Reference	-4.85	-4.85	---	PASS
			30~1000	-4.85	-50.2	≤-24.85	PASS
			1000~26500	-4.85	-34	≤-24.85	PASS

Test Graphs

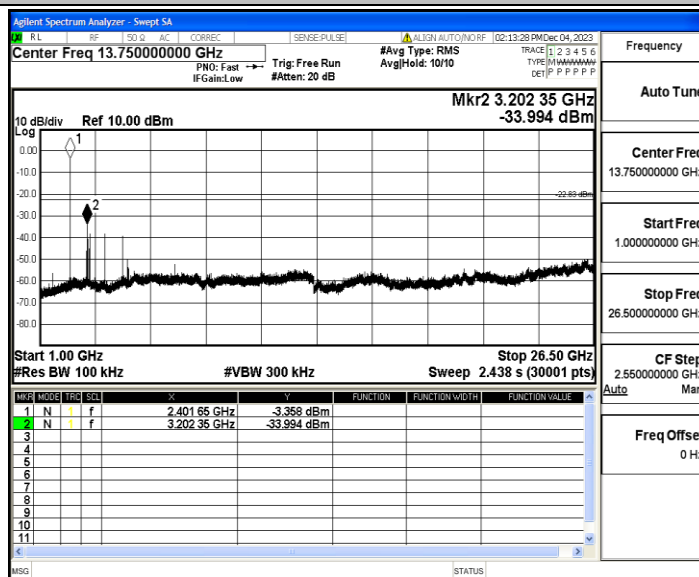
BLE_1M_Ant1_2402_0~Reference



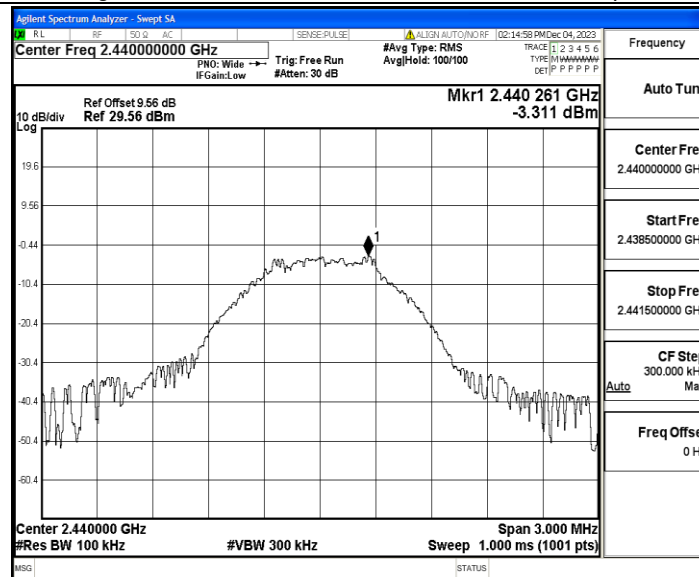
BLE_1M_Ant1_2402_30~1000



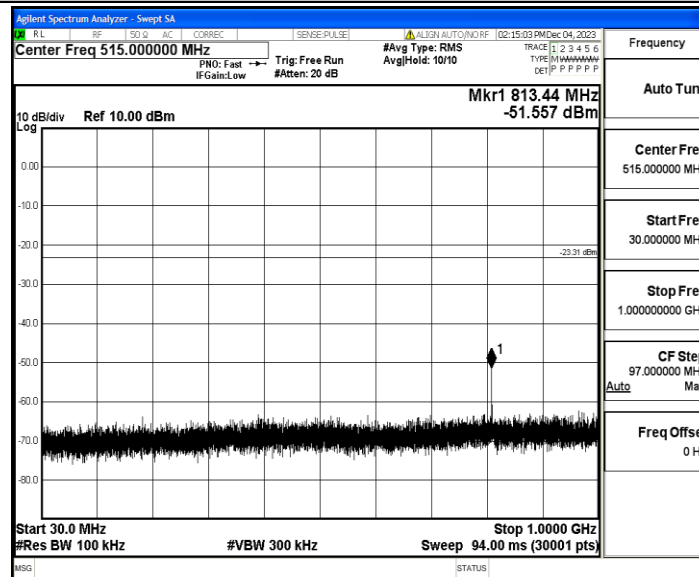
BLE_1M_Ant1_2402_1000~26500



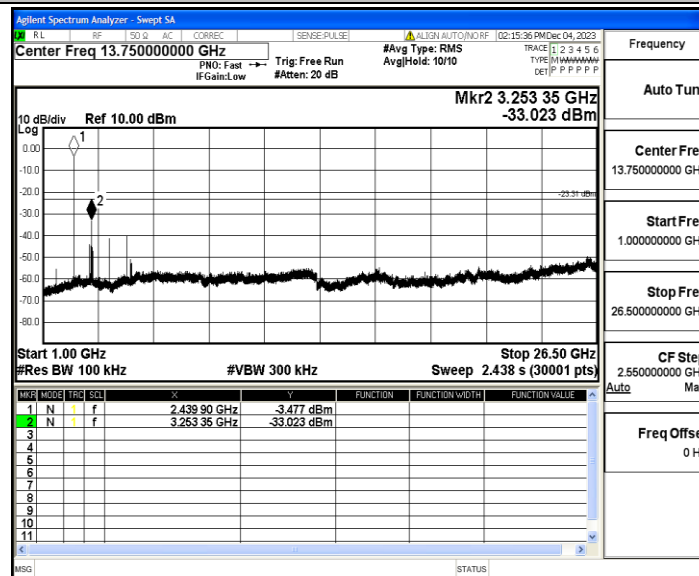
BLE_1M_Ant1_2440_0~Reference



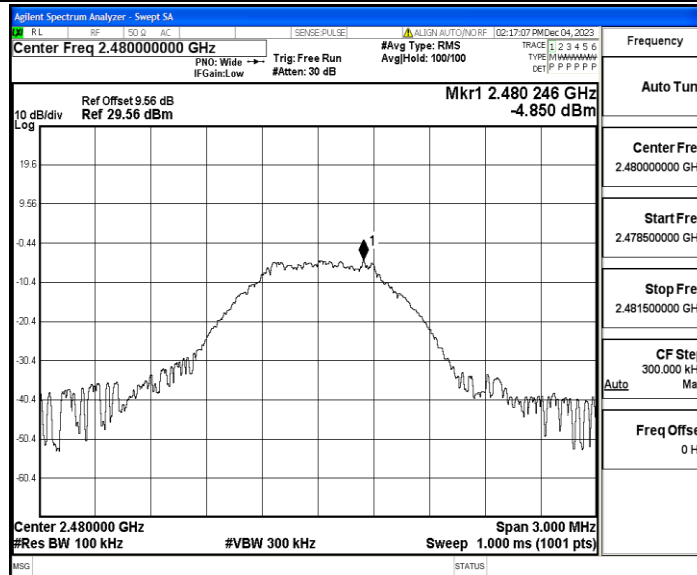
BLE_1M_Ant1_2440_30~1000



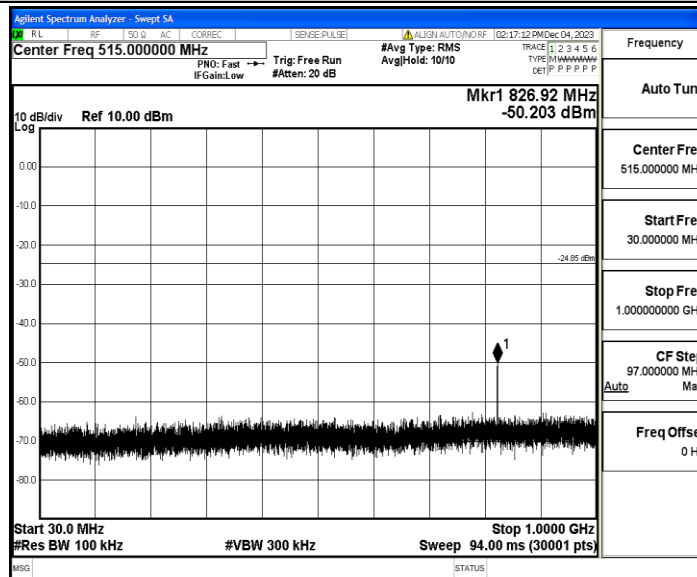
BLE_1M_Ant1_2440_1000~26500



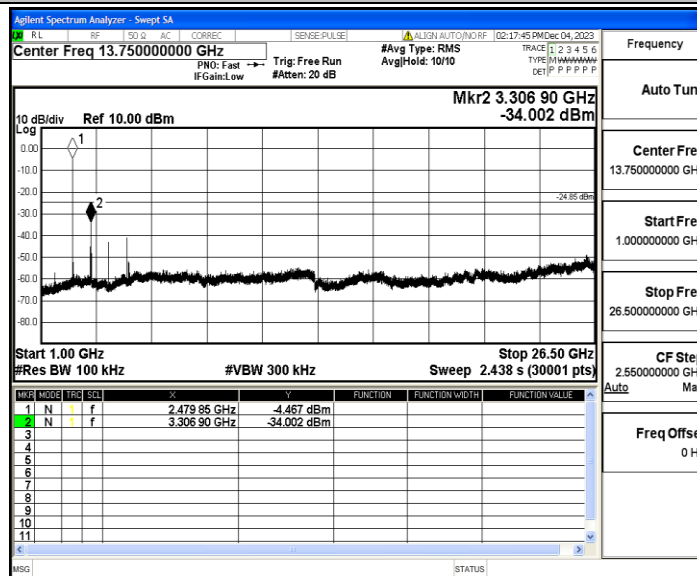
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



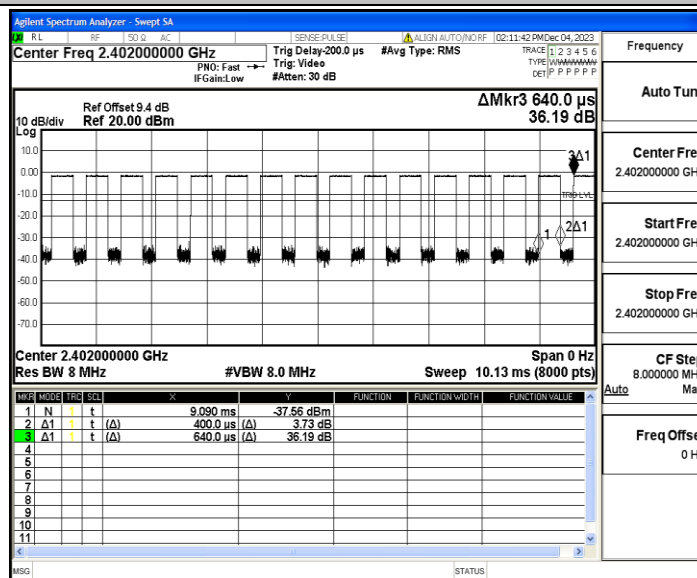
Appendix G: Duty Cycle

Test Result

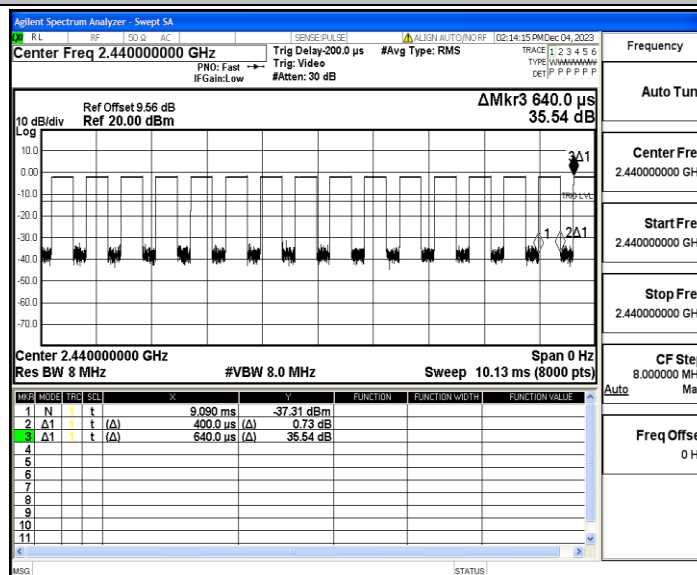
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
BLE_1M	Ant1	2402	0.40	0.64	62.50	2.50
		2440	0.40	0.64	62.50	2.50
		2480	0.39	0.63	61.90	2.56

Test Graphs

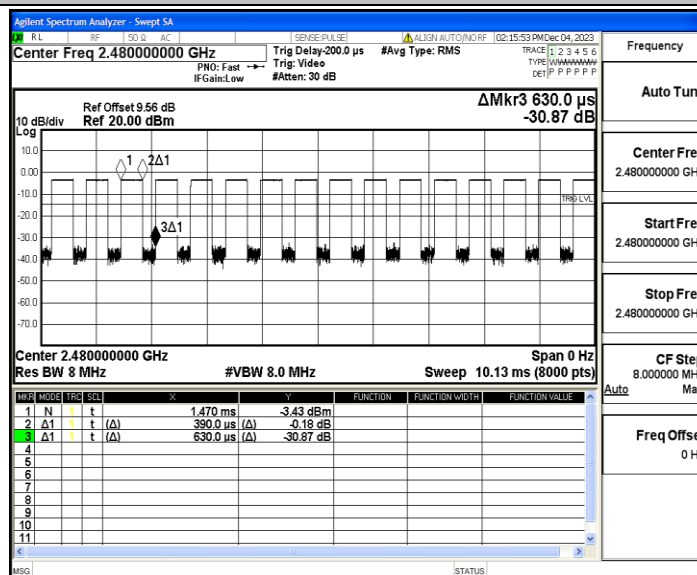
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix H: Emissions in Restricted Bands

Test Result

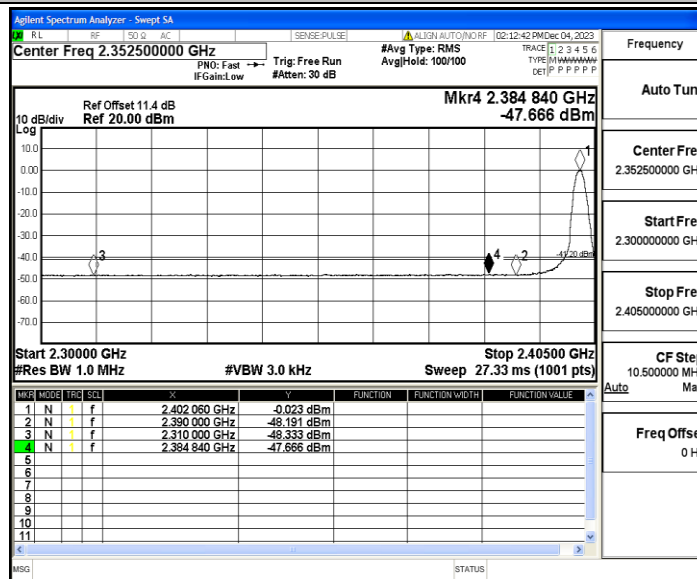
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-48.33	≤-41.20	PASS
				AV	2384.840	-47.67	≤-41.20	PASS
				AV	2390.000	-48.19	≤-41.20	PASS
				Peak	2310.000	-42.84	≤-21.20	PASS
				Peak	2361.950	-38.17	≤-21.20	PASS
				Peak	2390.000	-42.28	≤-21.20	PASS
		High	2480	AV	2483.500	-45.02	≤-41.20	PASS
				AV	2483.600	-44.94	≤-41.20	PASS
				AV	2500.000	-47.24	≤-41.20	PASS
				Peak	2483.500	-39.97	≤-21.20	PASS
				Peak	2484.320	-30.89	≤-21.20	PASS
				Peak	2500.000	-39.81	≤-21.20	PASS

Note:

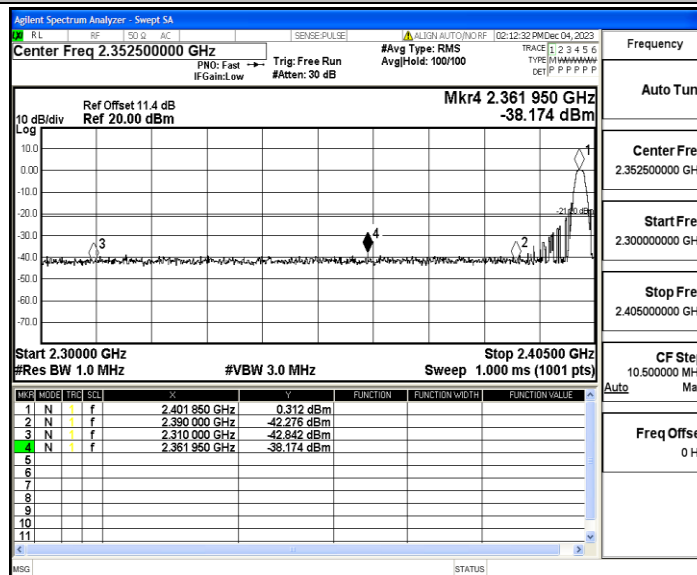
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

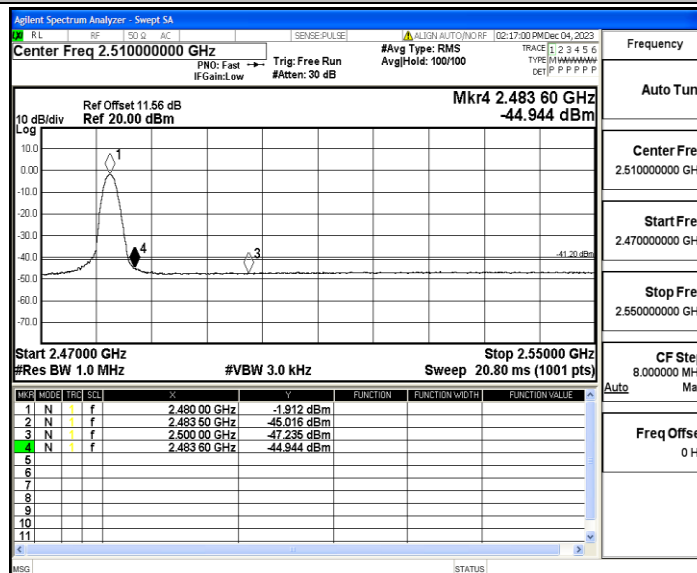
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

