

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

Product Name: smart phone

Trade Mark: YEZZ

Test Model: MAX 3

FCC ID: 2APW4MAX3

Environmental Conditions

Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

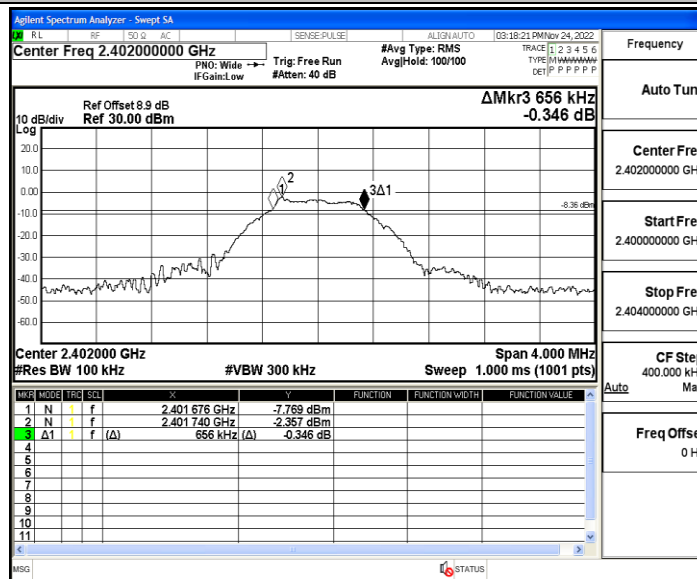
Appendix A: DTS Bandwidth

Test Result

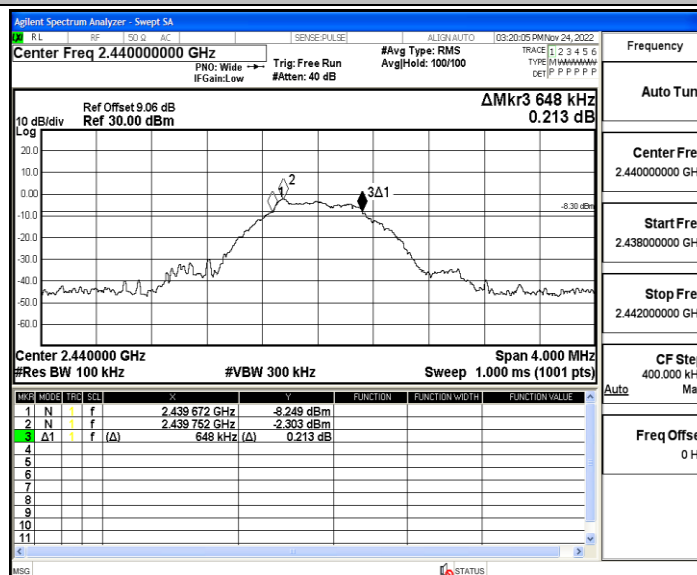
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.656	2401.676	2402.332	0.5	PASS
		2440	0.648	2439.672	2440.320	0.5	PASS
		2480	0.676	2479.660	2480.336	0.5	PASS

Test Graphs

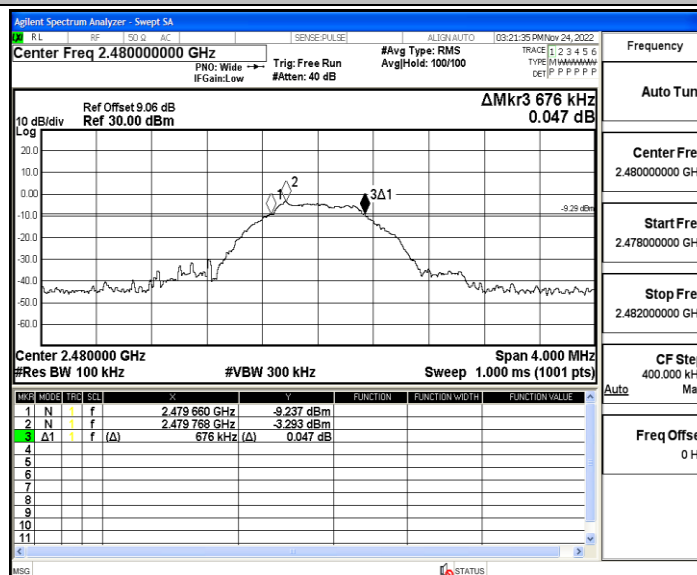
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



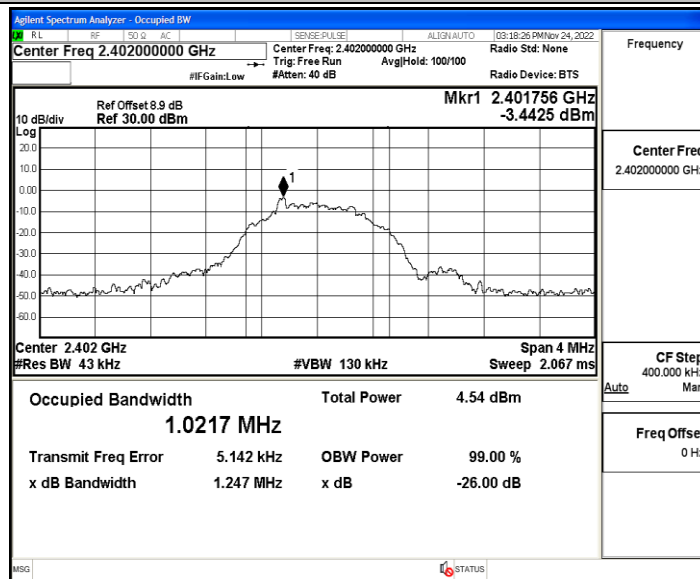
Appendix B: Occupied Channel Bandwidth

Test Result

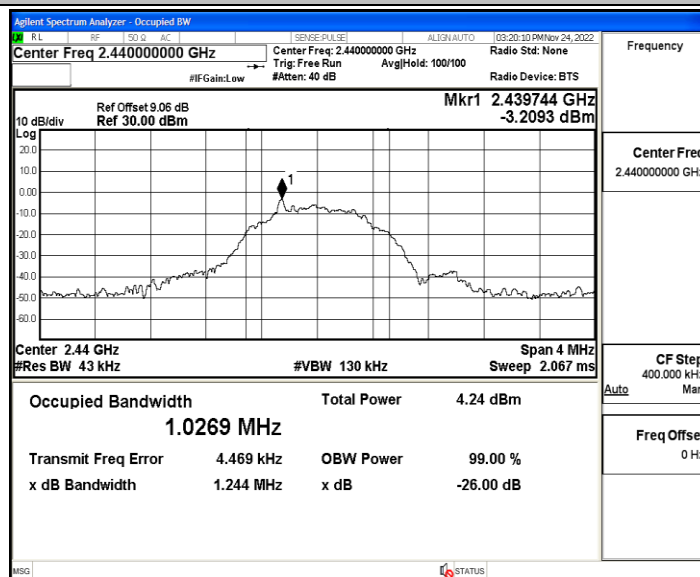
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0217	2401.4943	2402.5160	---	---
		2440	1.0269	2439.4910	2440.5179	---	---
		2480	1.0331	2479.4899	2480.5230	---	---

Test Graphs

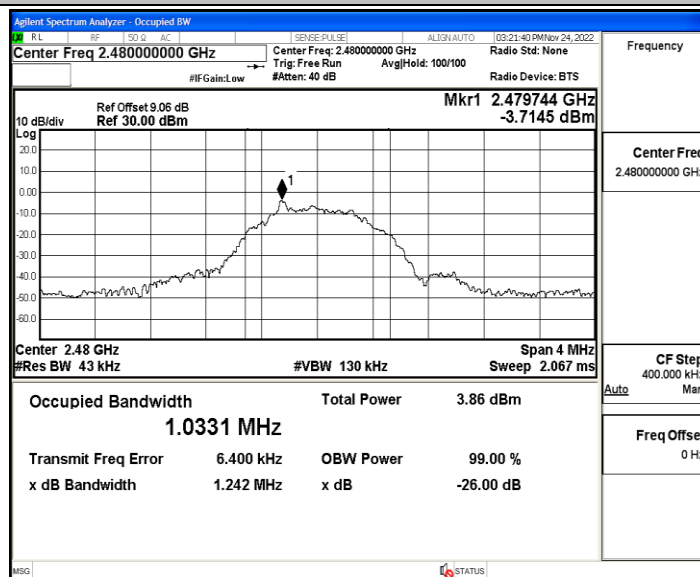
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



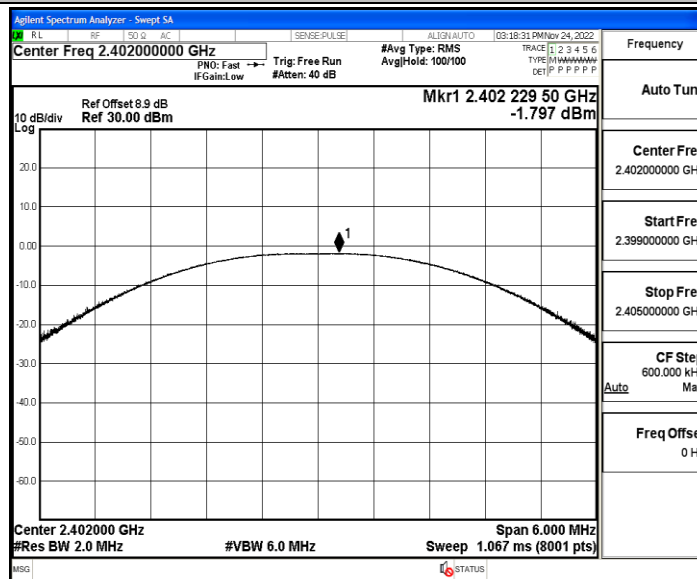
Appendix C: Maximum Peak conducted output power

Test Result

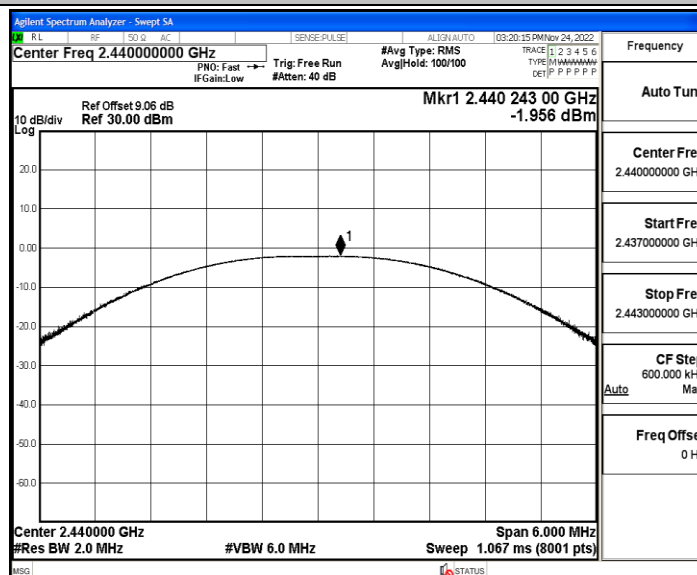
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.8	≤30	PASS
		2440	-1.96	≤30	PASS
		2480	-2.48	≤30	PASS

Test Graphs

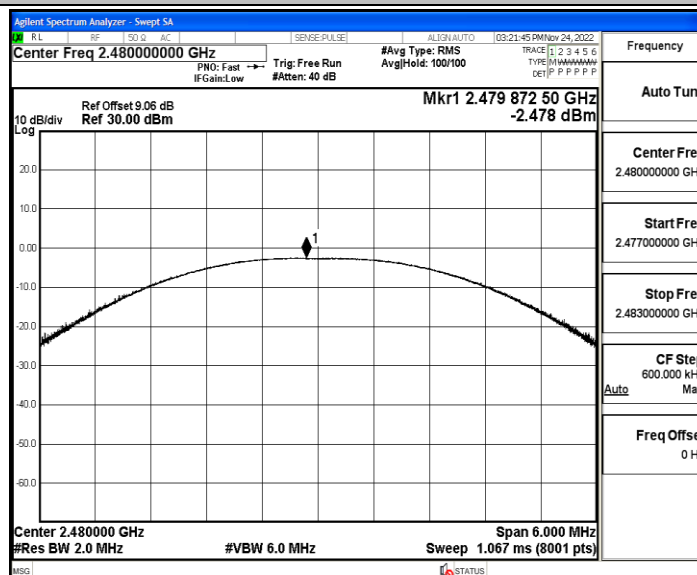
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



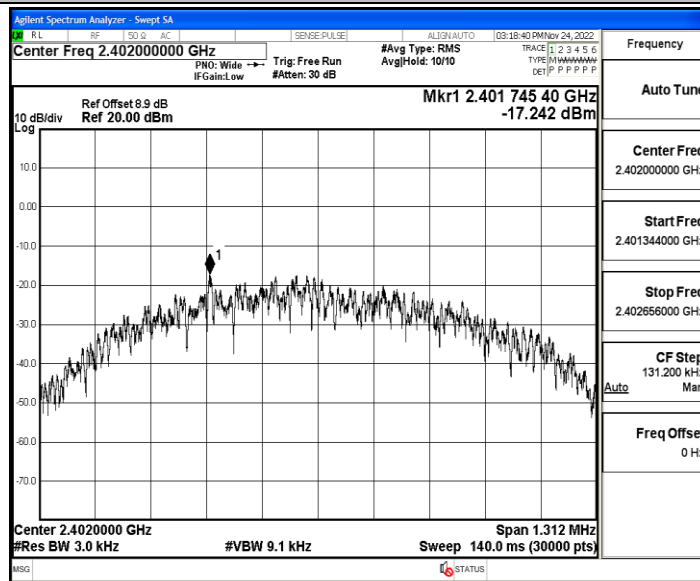
Appendix D: Maximum power spectral density

Test Result

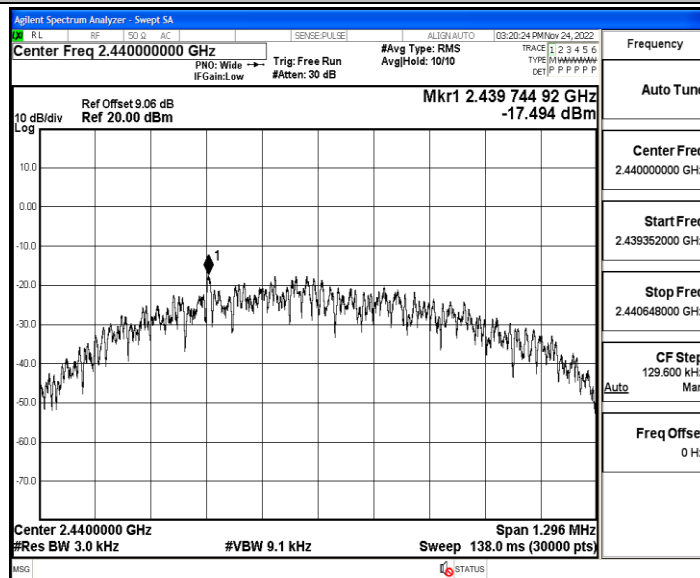
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.24	≤8.00	PASS
		2440	-17.49	≤8.00	PASS
		2480	-17.9	≤8.00	PASS

Test Graphs

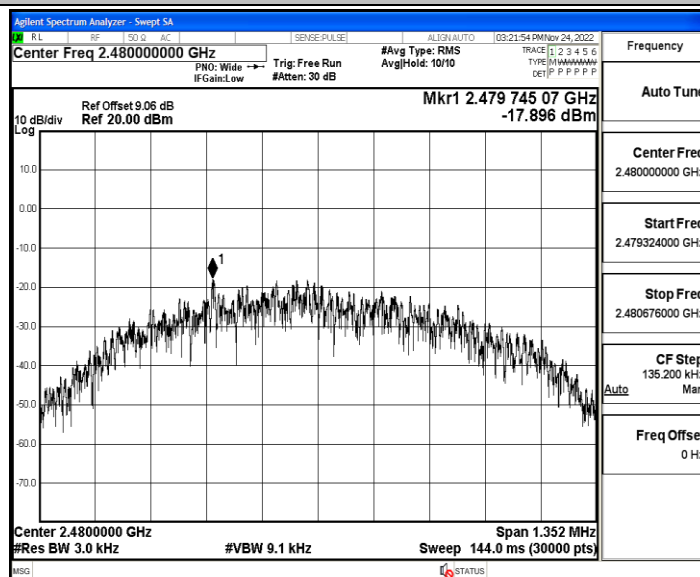
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

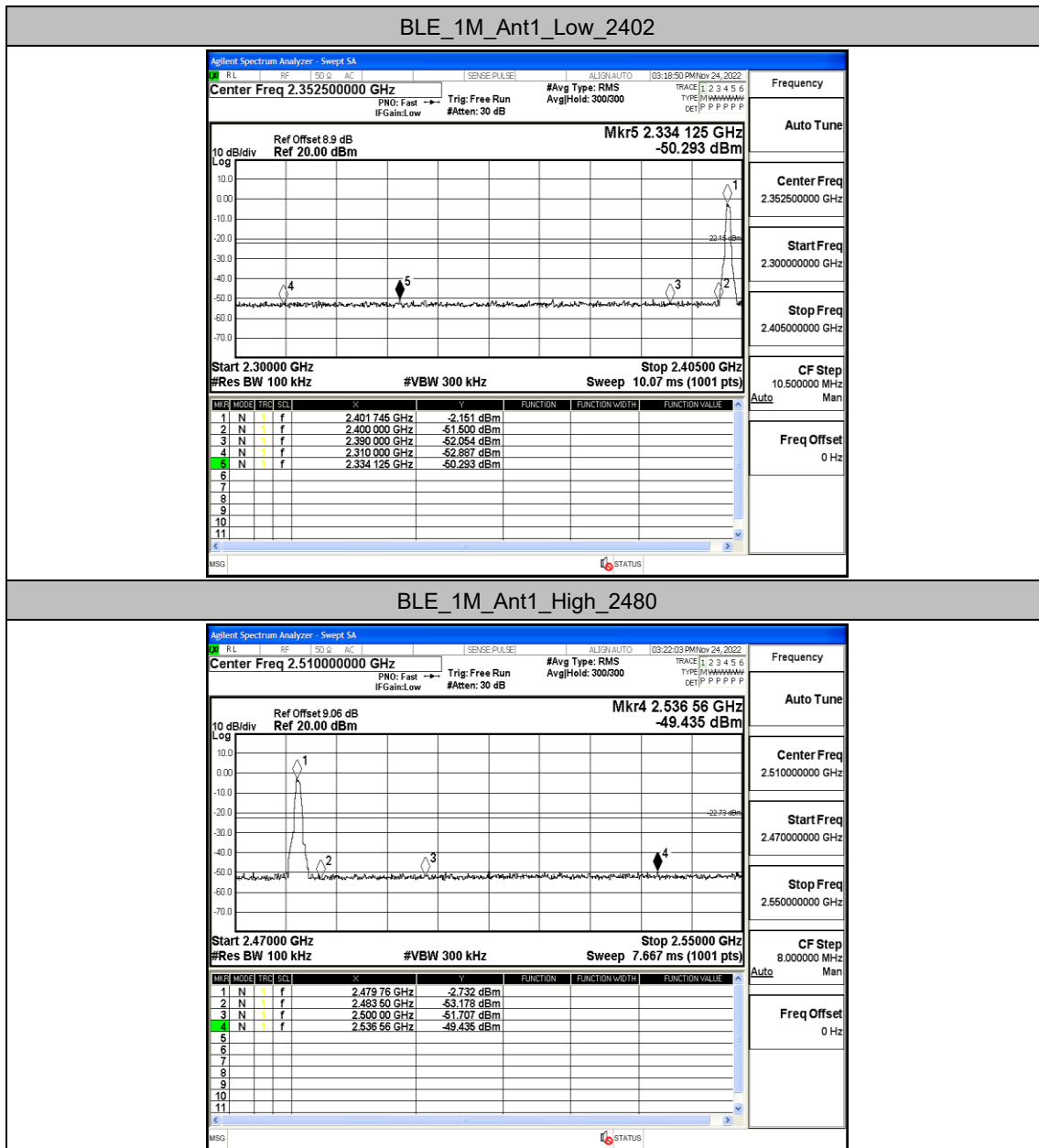


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.15	-50.29	≤-22.15	PASS
		High	2480	-2.73	-49.44	≤-22.73	PASS

Test Graphs



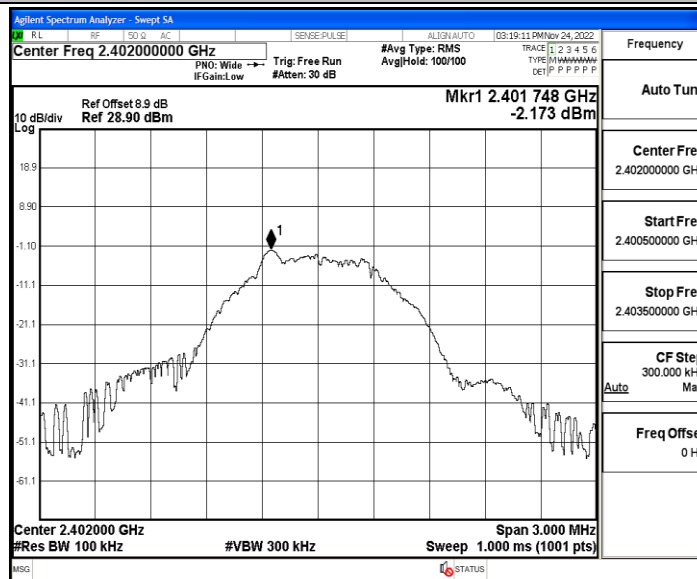
Appendix F: Conducted Spurious Emission

Test Result

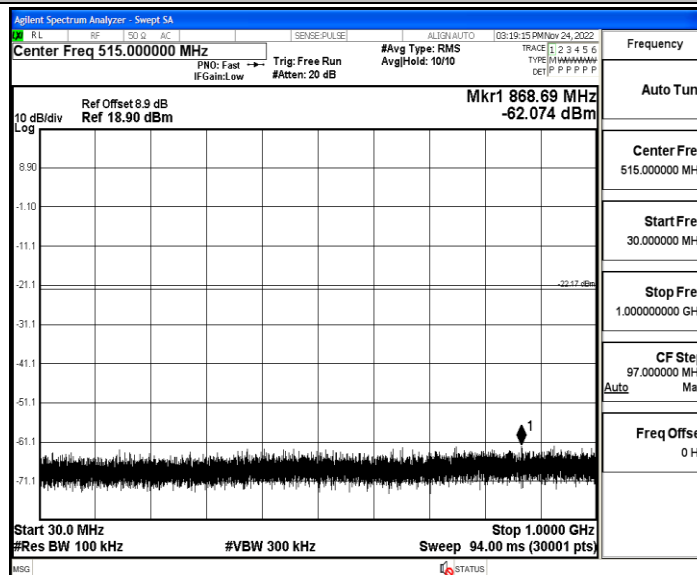
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.17	-2.17	---	PASS
			30~1000	-2.17	-62.07	≤-22.17	PASS
			1000~26500	-2.17	-51.7	≤-22.17	PASS
		2440	Reference	-2.30	-2.30	---	PASS
			30~1000	-2.30	-61.75	≤-22.3	PASS
			1000~26500	-2.30	-51.6	≤-22.3	PASS
		2480	Reference	-3.02	-3.02	---	PASS
			30~1000	-3.02	-61.53	≤-23.02	PASS
			1000~26500	-3.02	-51.04	≤-23.02	PASS

Test Graphs

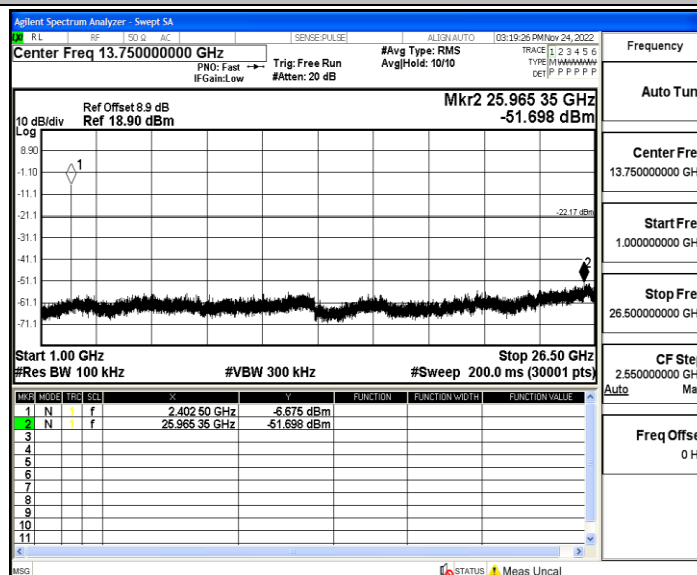
BLE_1M_Ant1_2402_0~Reference



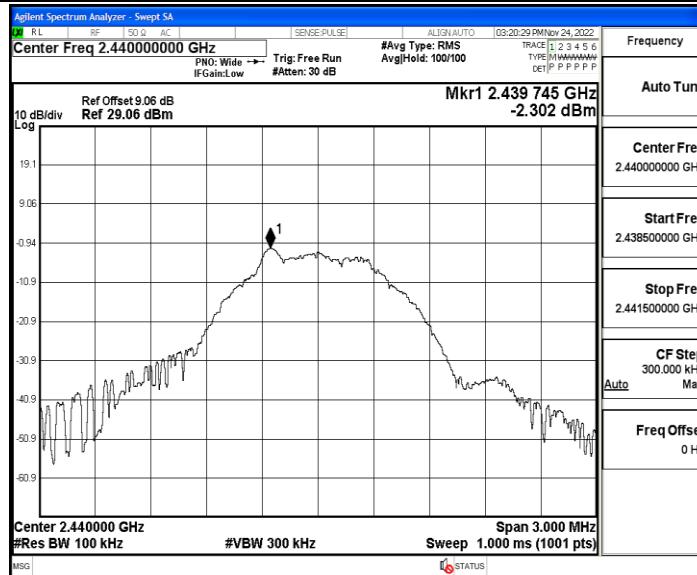
BLE_1M_Ant1_2402_30~1000



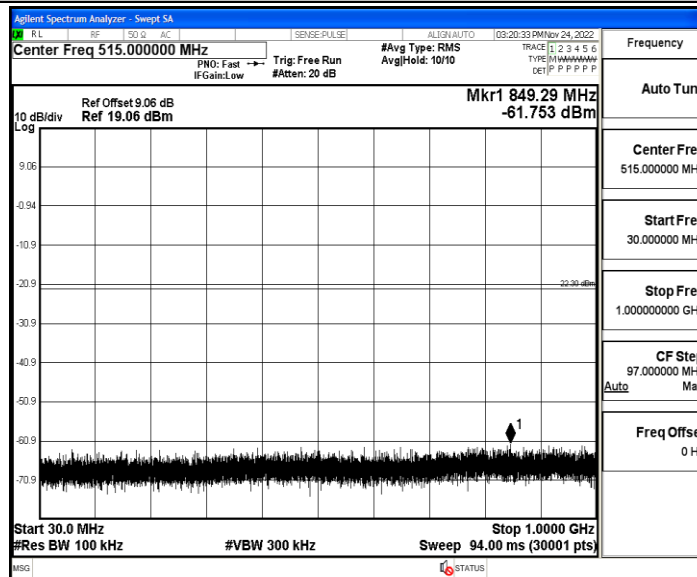
BLE_1M_Ant1_2402_1000~26500



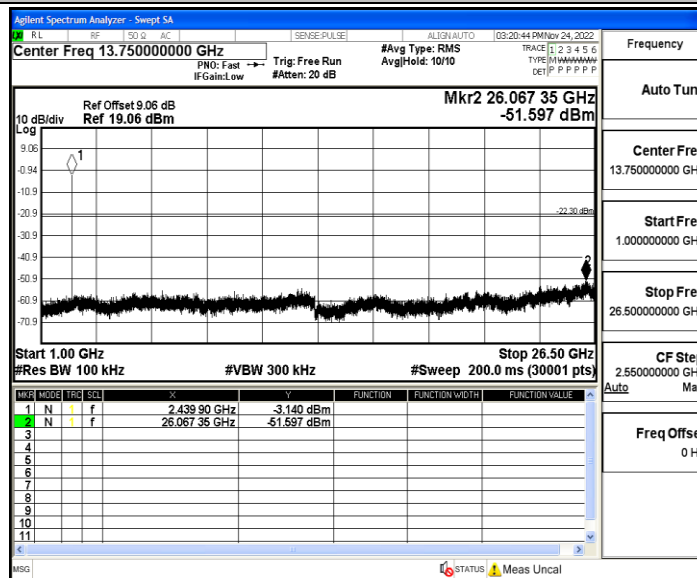
BLE_1M_Ant1_2440_0~Reference



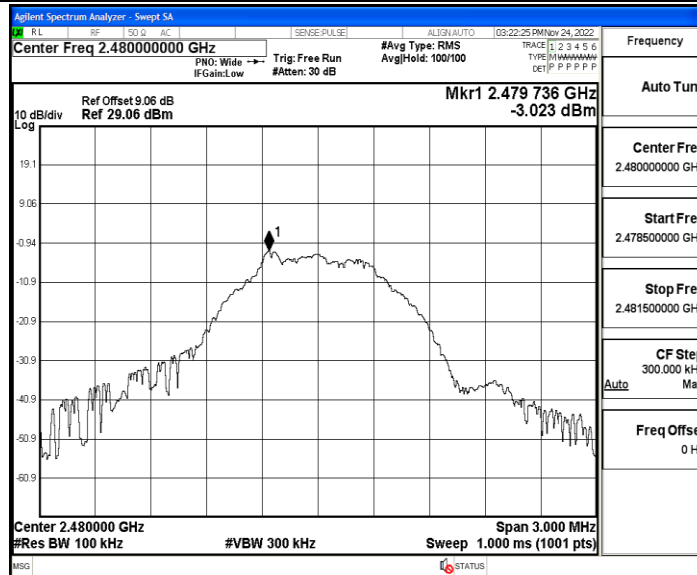
BLE_1M_Ant1_2440_30~1000



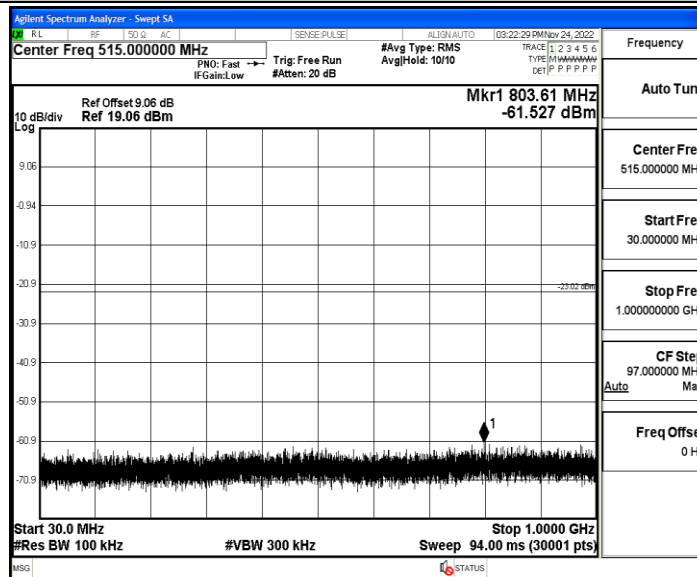
BLE_1M_Ant1_2440_1000~26500



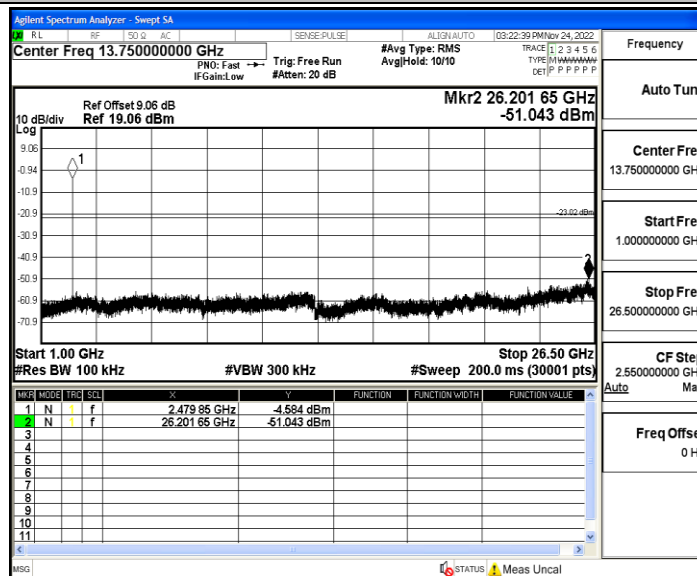
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

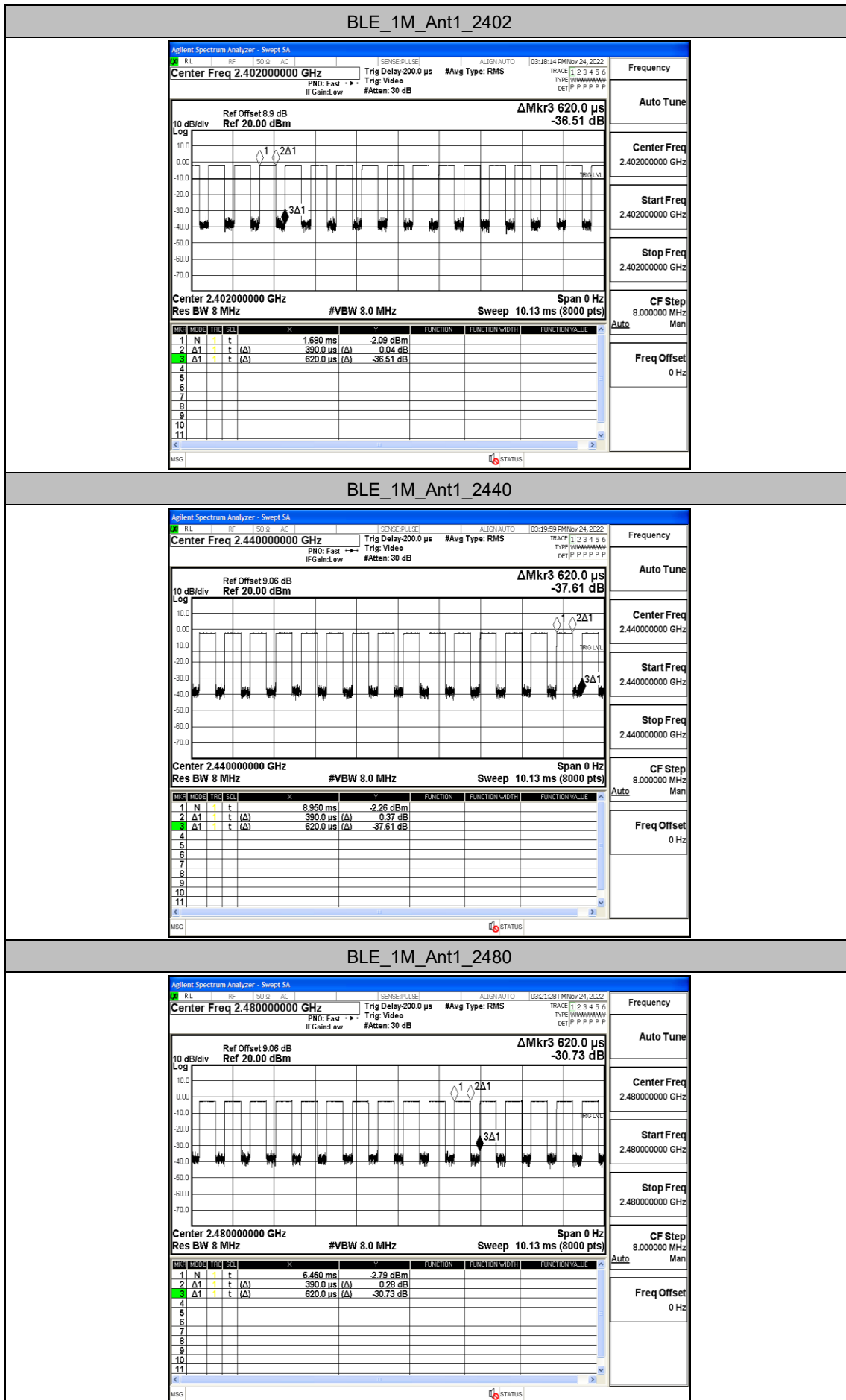


Appendix G: Duty Cycle

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

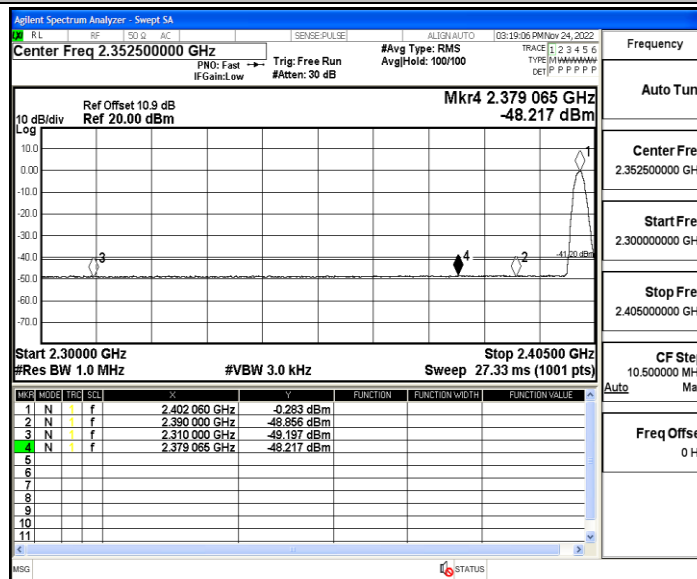
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-49.2	≤-41.20	PASS
				AV	2379.065	-48.22	≤-41.20	PASS
				AV	2390.000	-48.86	≤-41.20	PASS
				Peak	2310.000	-42.89	≤-21.20	PASS
				Peak	2318.375	-38.95	≤-21.20	PASS
				Peak	2390.000	-42.72	≤-21.20	PASS
		High	2480	AV	2483.500	-47.86	≤-41.20	PASS
				AV	2499.440	-47.58	≤-41.20	PASS
				AV	2500.000	-48.03	≤-41.20	PASS
				Peak	2483.500	-41.56	≤-21.20	PASS
				Peak	2492.400	-39.1	≤-21.20	PASS
				Peak	2500.000	-41.68	≤-21.20	PASS

Note:

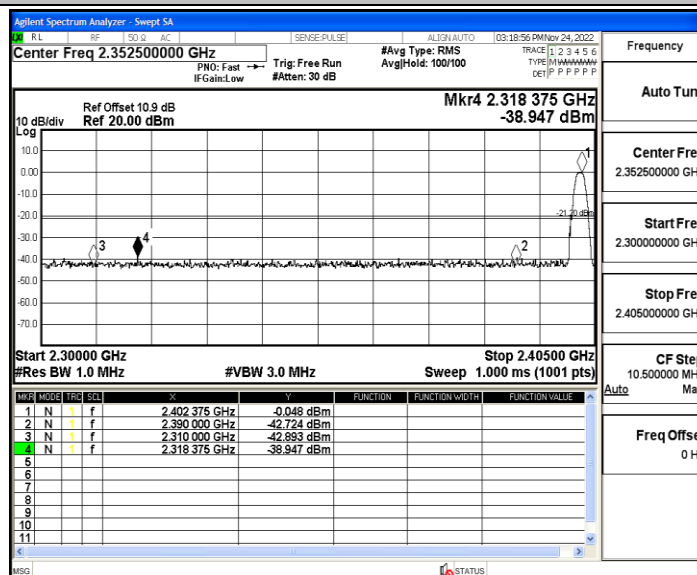
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

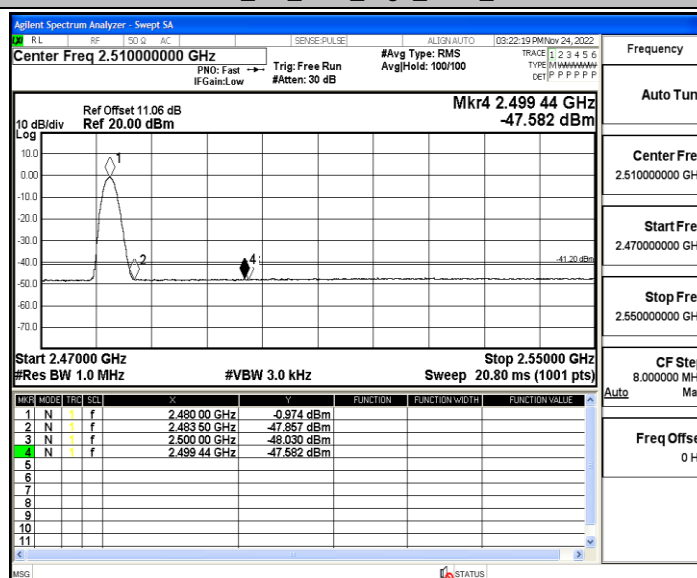
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

