

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

Product Name: Bluetooth adaptor

Trade Mark: Wet Sounds

Test Model: WW-BT VC-V2

FCC ID: 2AT9N-WW-BT-VC-V2

Environmental Conditions

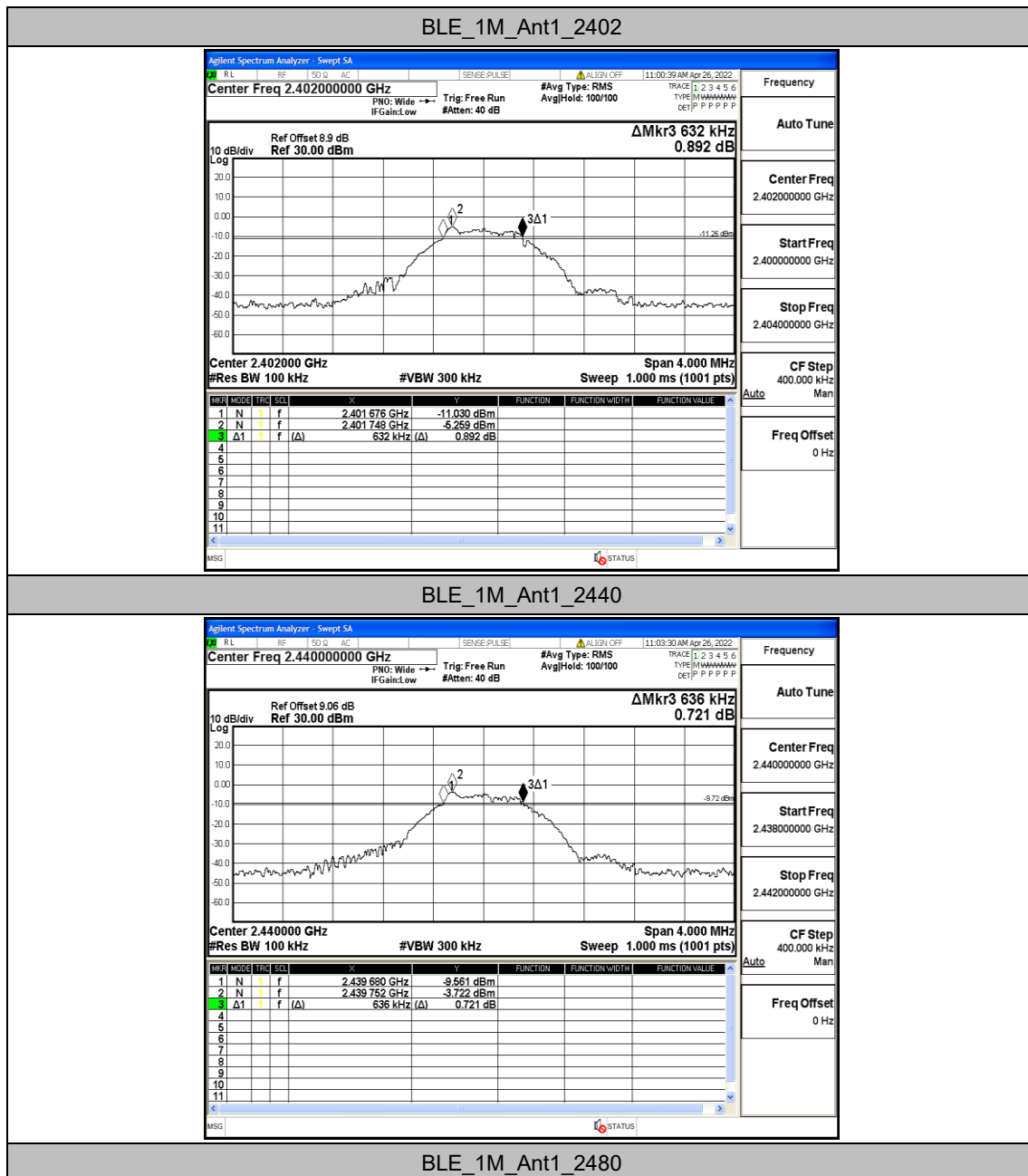
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

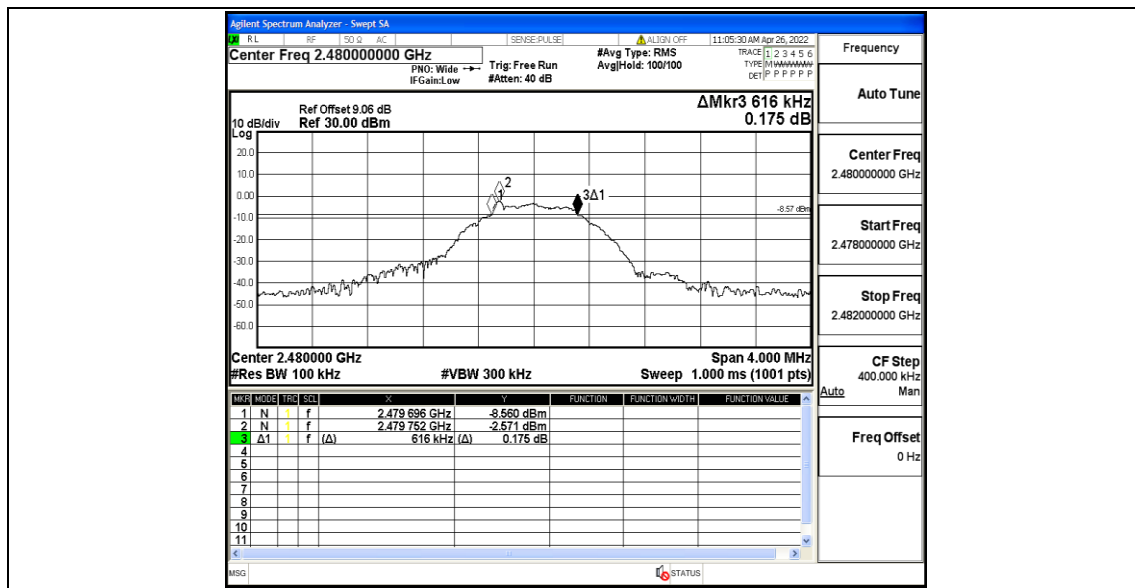
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.632	2401.676	2402.308	0.5	PASS
		2440	0.636	2439.680	2440.316	0.5	PASS
		2480	0.616	2479.696	2480.312	0.5	PASS

Test Graphs



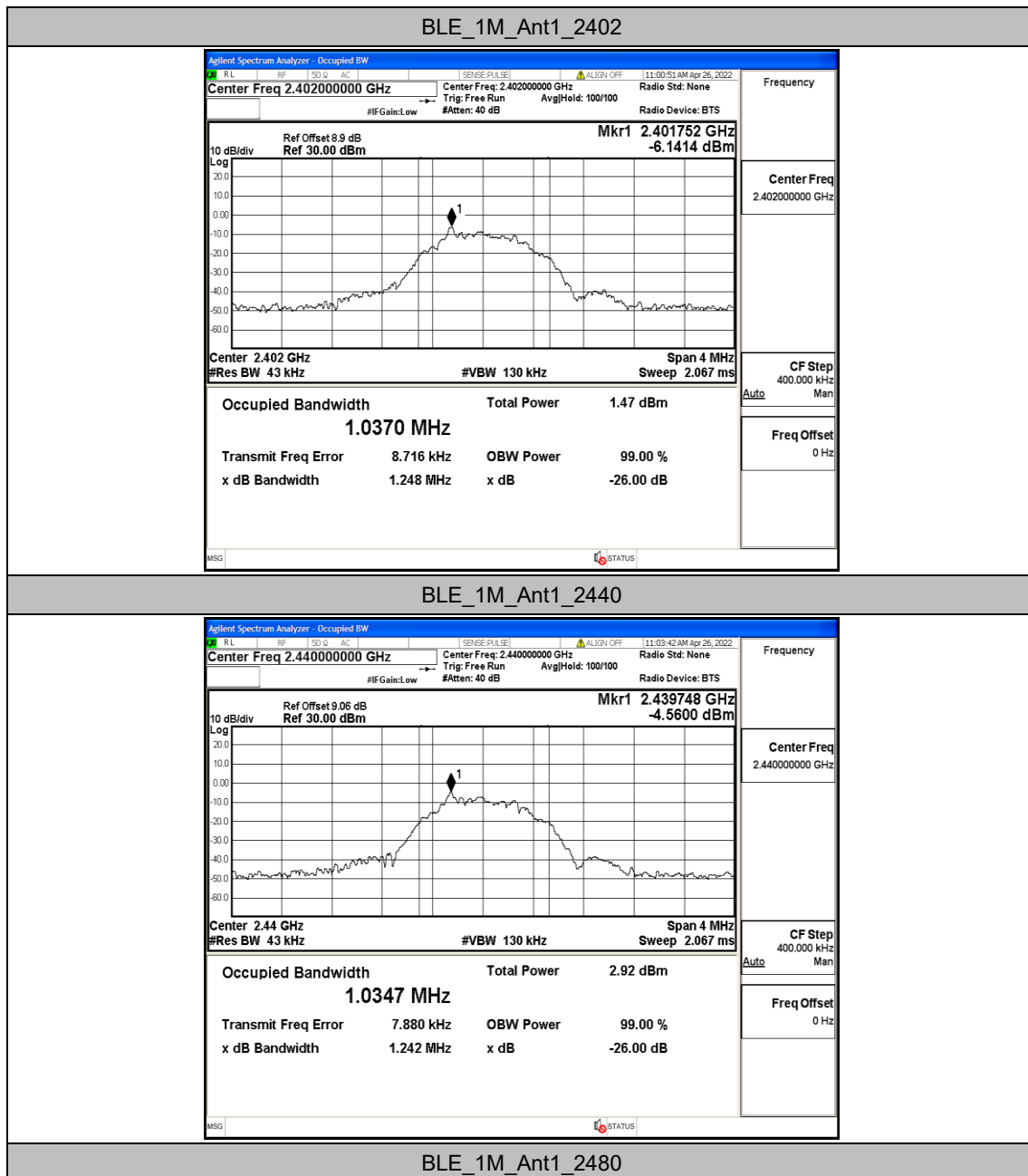


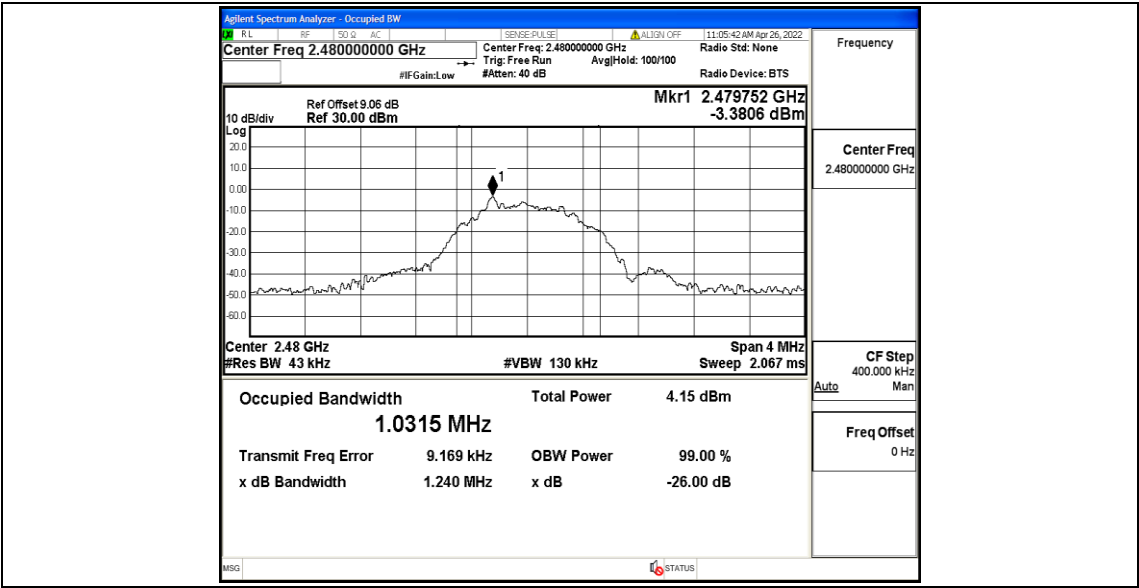
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0370	2401.490	2402.527	---	---
		2440	1.0347	2439.491	2440.525	---	---
		2480	1.0315	2479.493	2480.525	---	---

Test Graphs



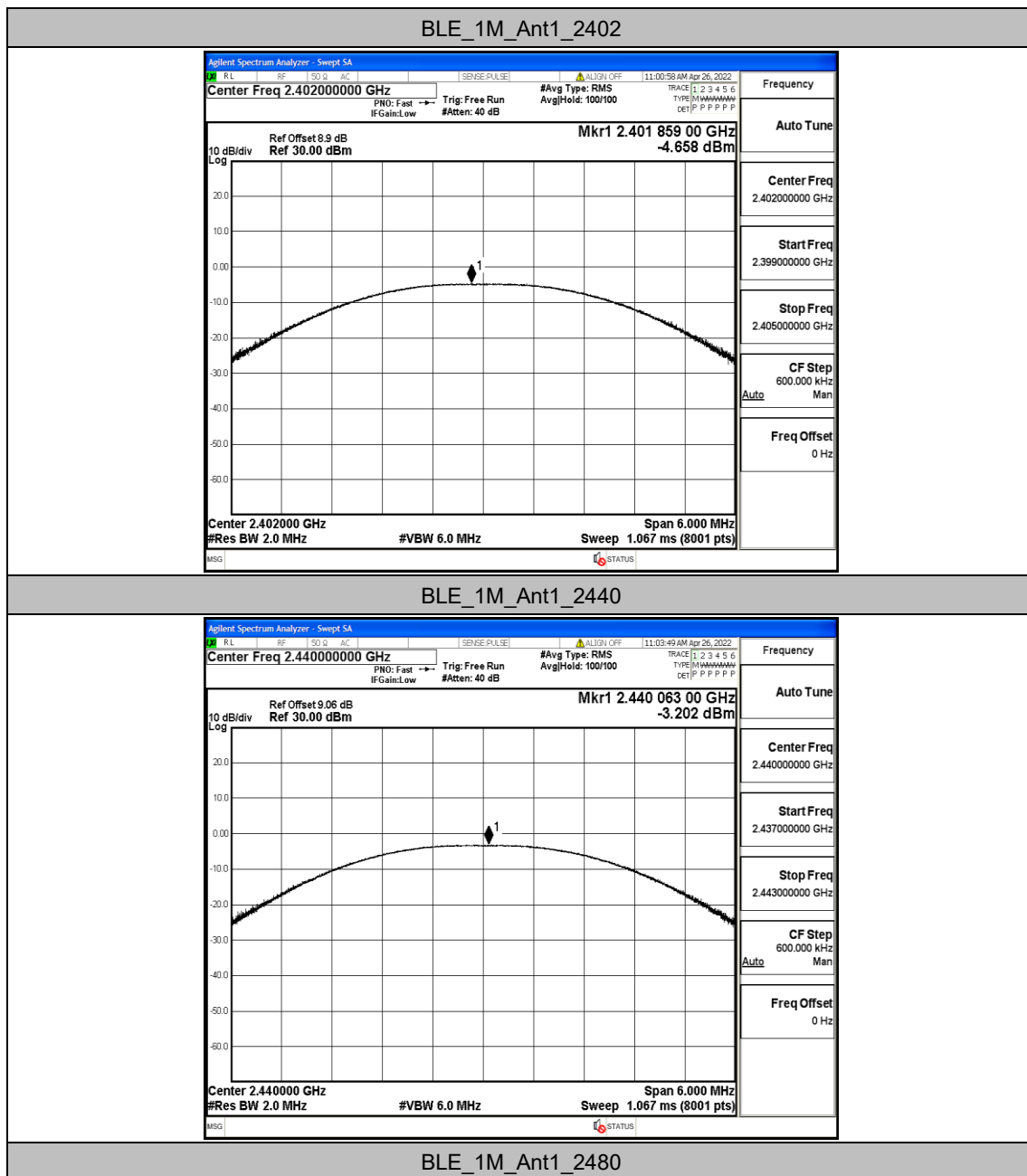


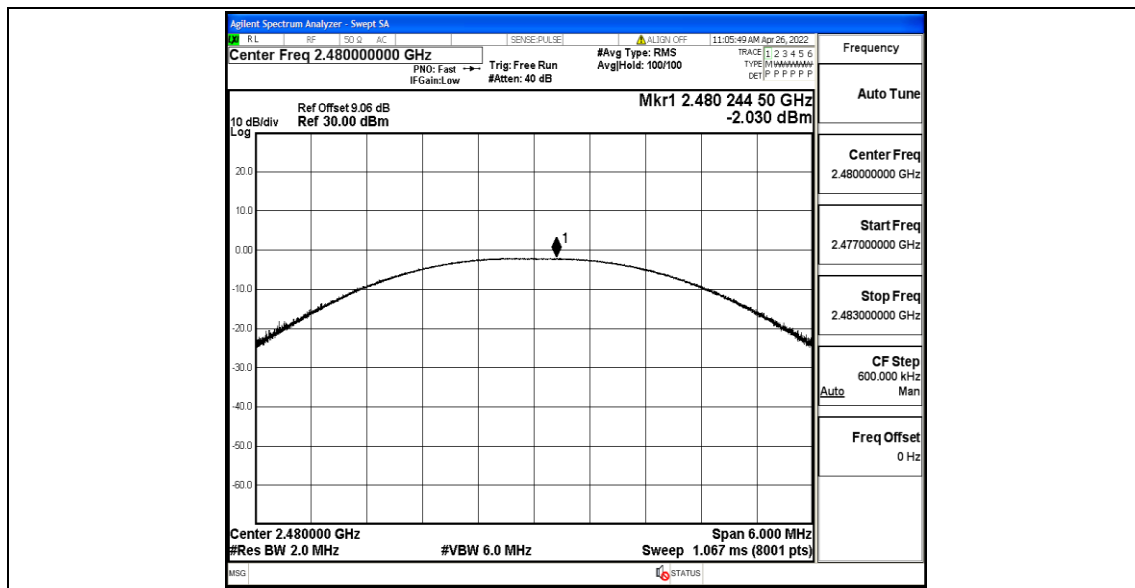
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-4.66	≤30	PASS
		2440	-3.2	≤30	PASS
		2480	-2.03	≤30	PASS

Test Graphs



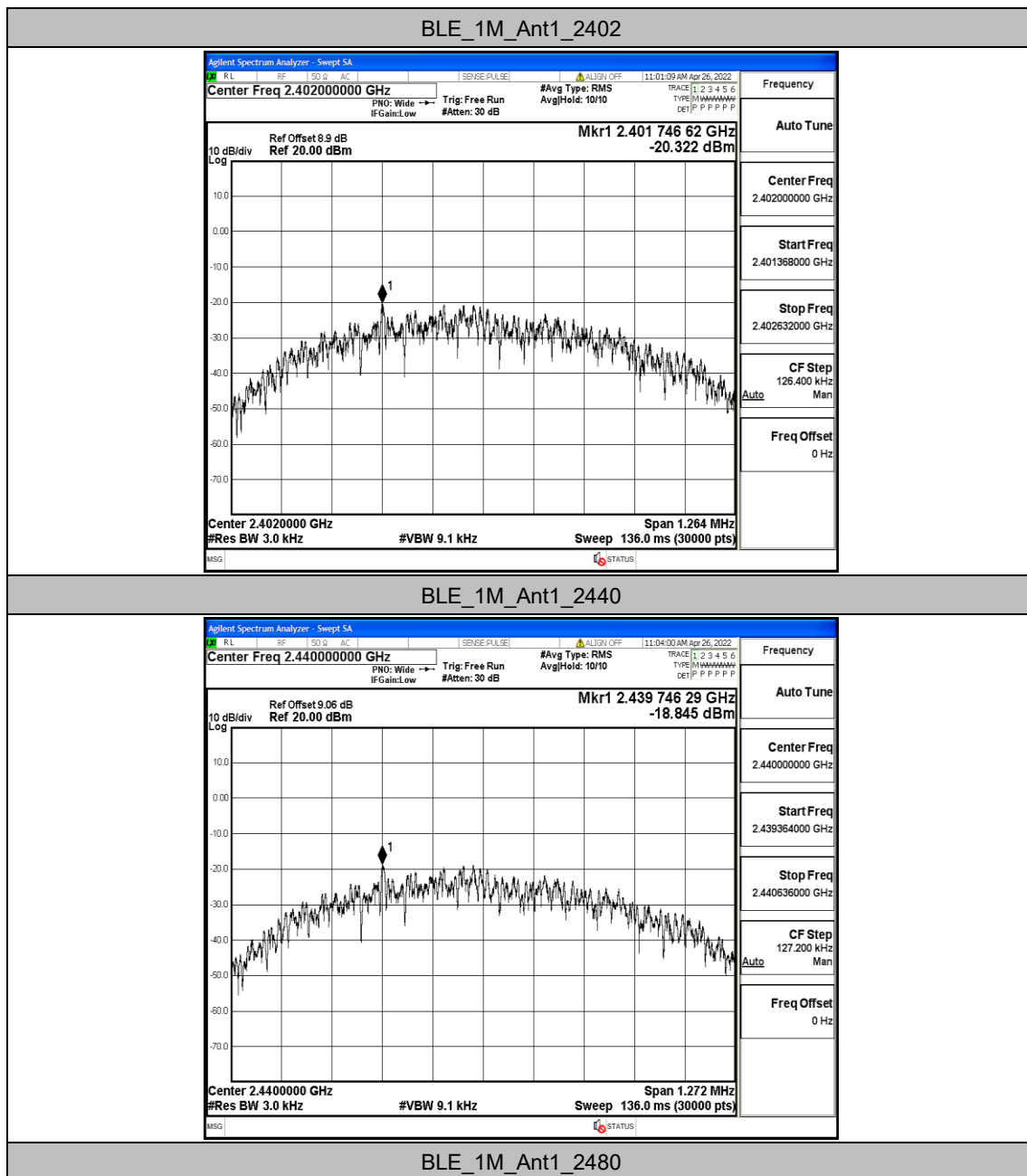


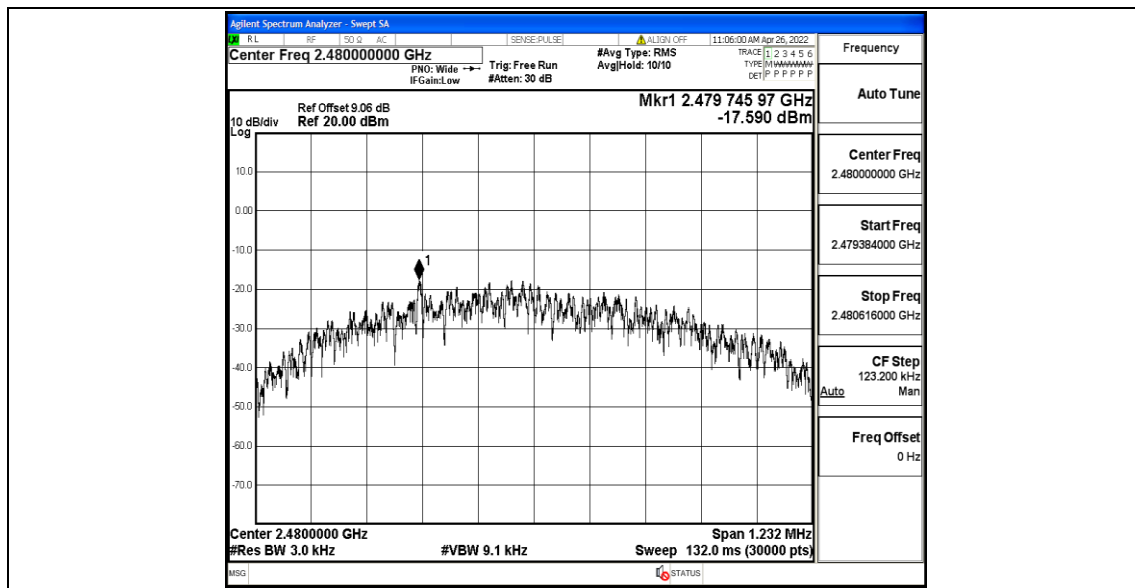
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-20.32	≤8.00	PASS
		2440	-18.85	≤8.00	PASS
		2480	-17.59	≤8.00	PASS

Test Graphs



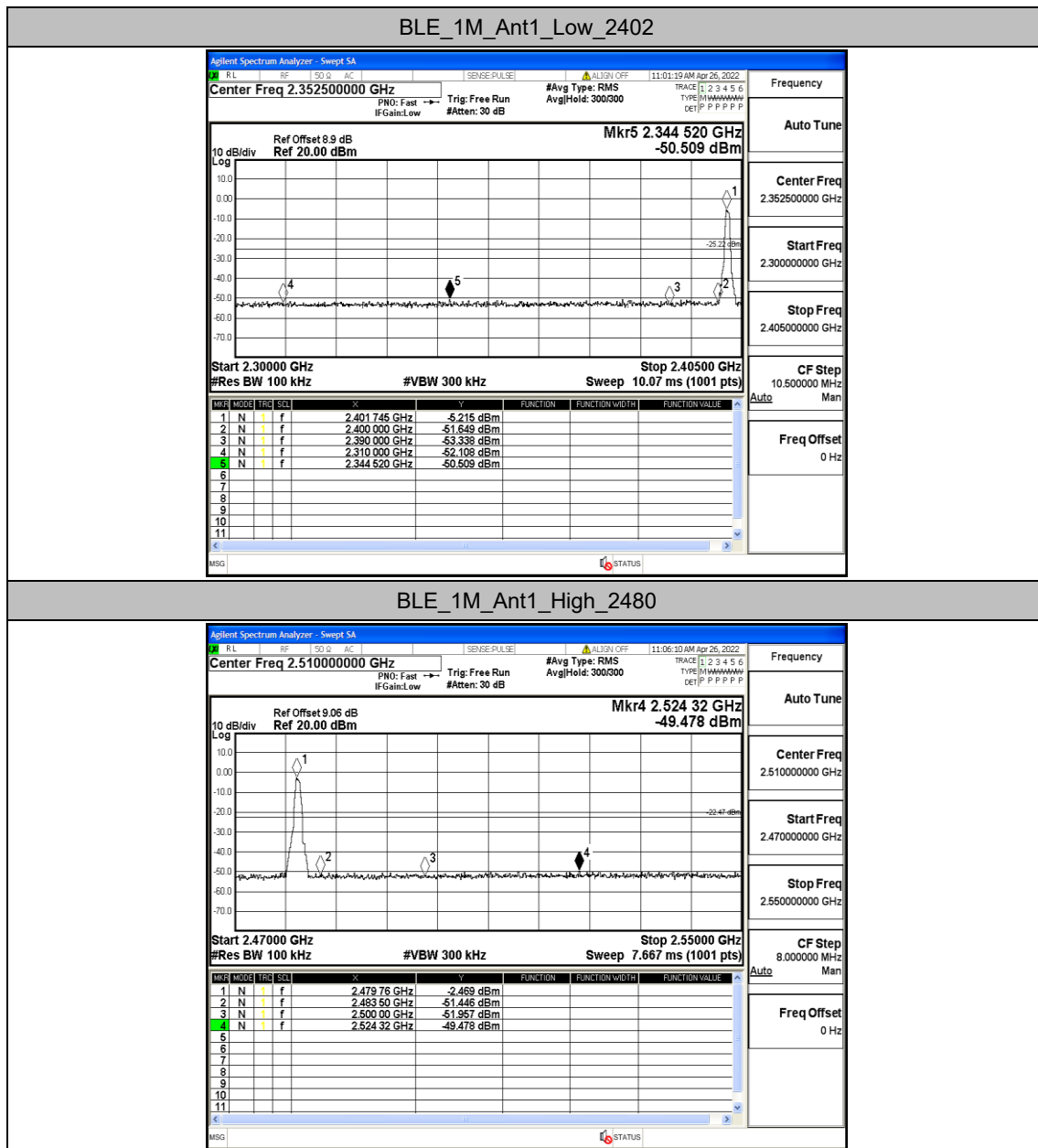


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-5.22	-50.51	≤-25.22	PASS
		High	2480	-2.47	-49.48	≤-22.47	PASS

Test Graphs



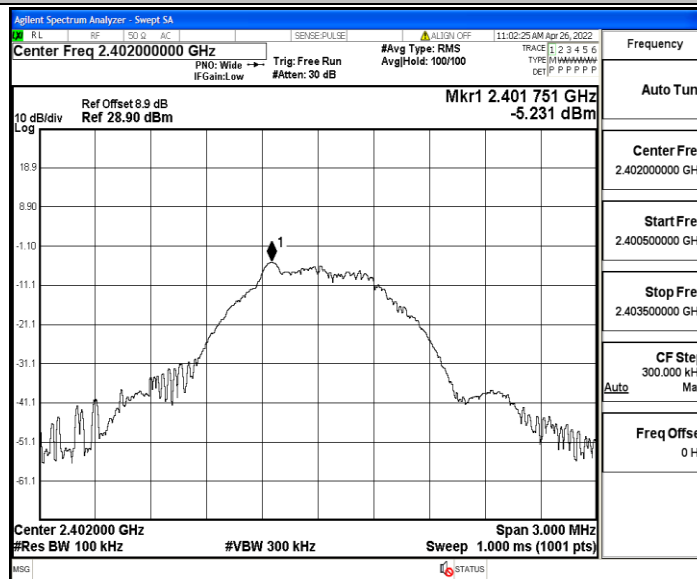
Appendix F: Conducted Spurious Emission

Test Result

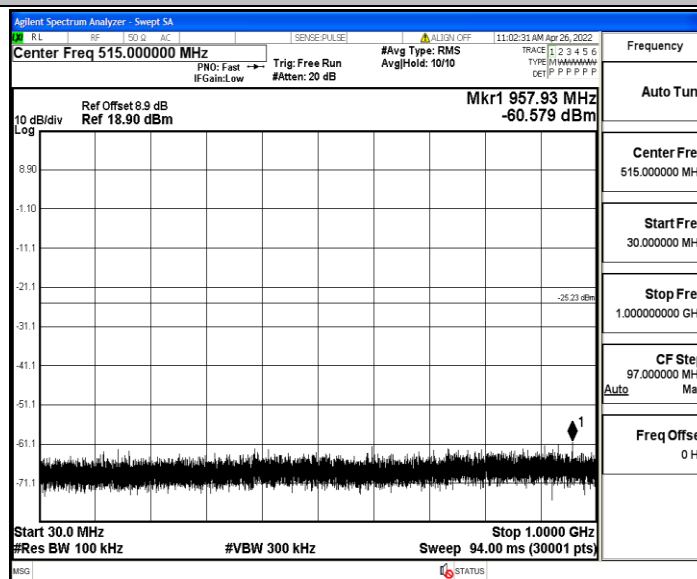
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-5.23	-5.23	---	PASS
			30~1000	-5.23	-60.58	≤-25.23	PASS
			1000~26500	-5.23	-51.72	≤-25.23	PASS
		2440	Reference	-3.71	-3.71	---	PASS
			30~1000	-3.71	-62.01	≤-23.71	PASS
			1000~26500	-3.71	-50.58	≤-23.71	PASS
		2480	Reference	-2.51	-2.51	---	PASS
			30~1000	-2.51	-60.97	≤-22.51	PASS
			1000~26500	-2.51	-51.05	≤-22.51	PASS

Test Graphs

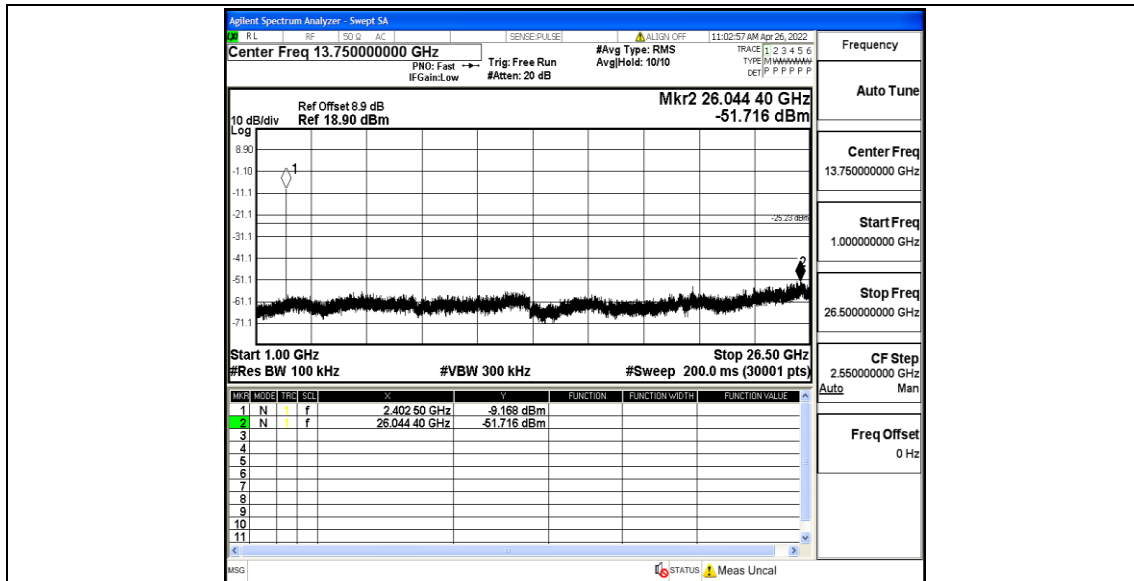
BLE_1M_Ant1_2402_0~Reference



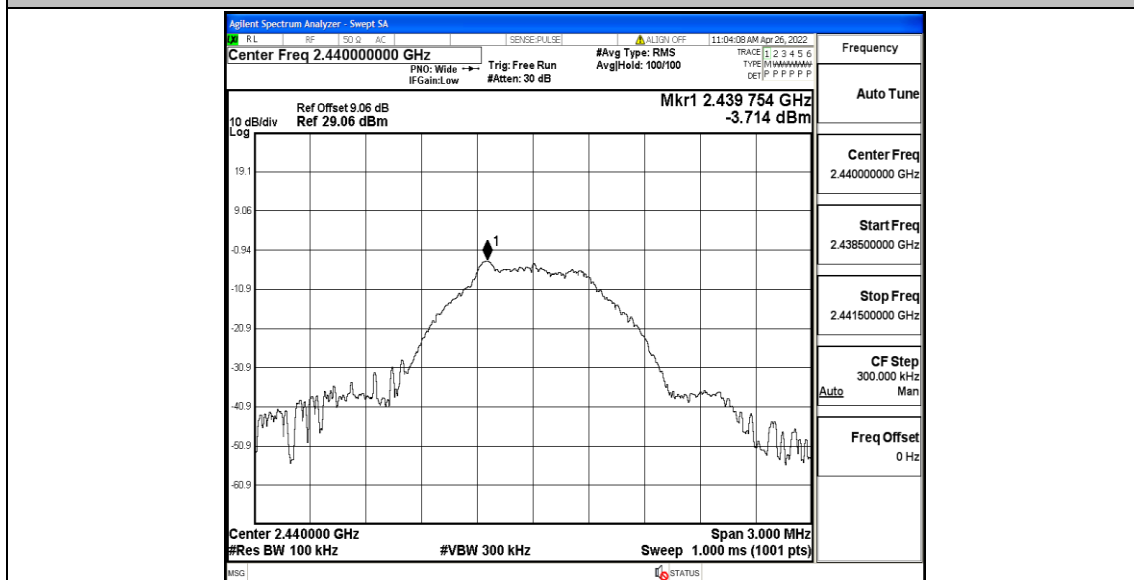
BLE_1M_Ant1_2402_30~1000



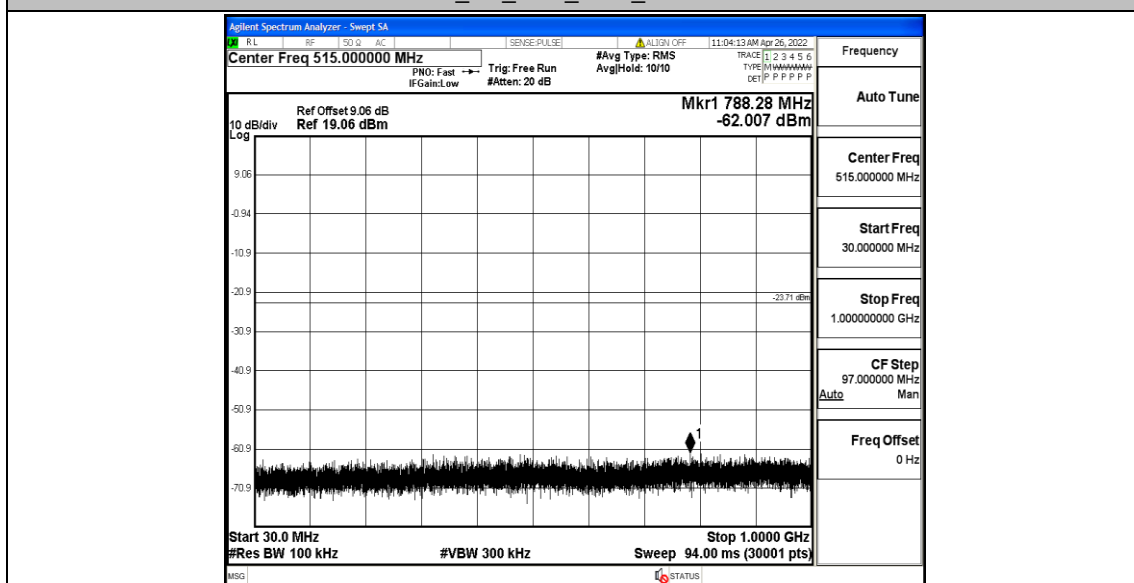
BLE_1M_Ant1_2402_1000~26500



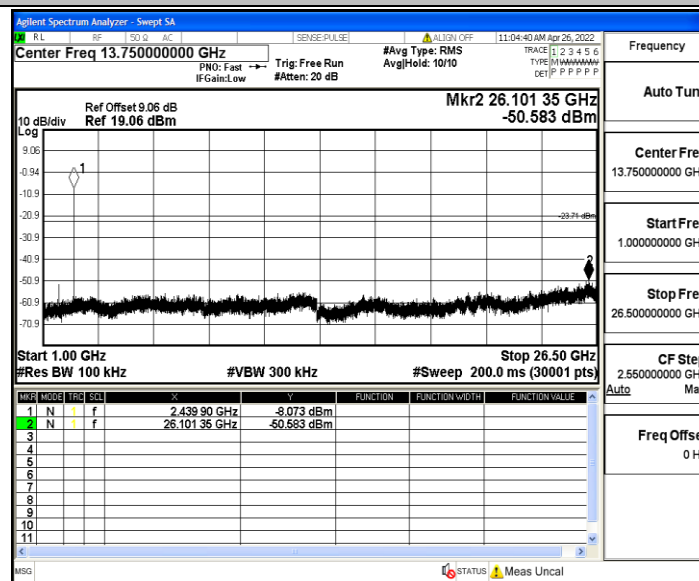
BLE_1M_Ant1_2440_0~Reference



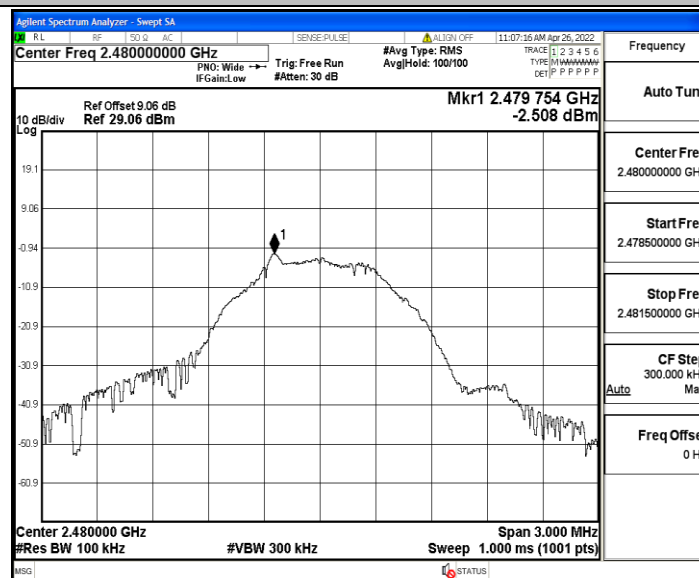
BLE_1M_Ant1_2440_30~1000



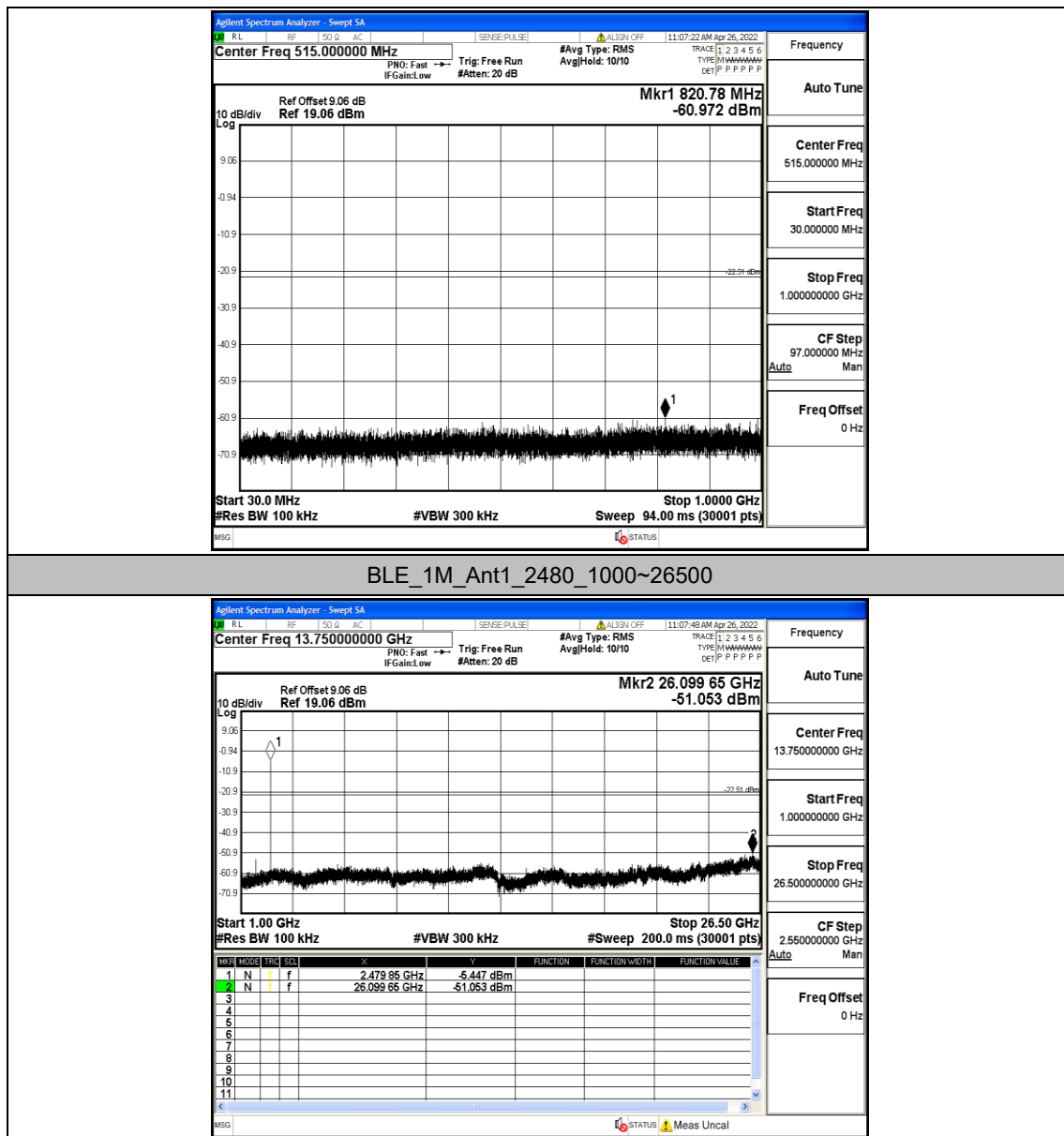
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

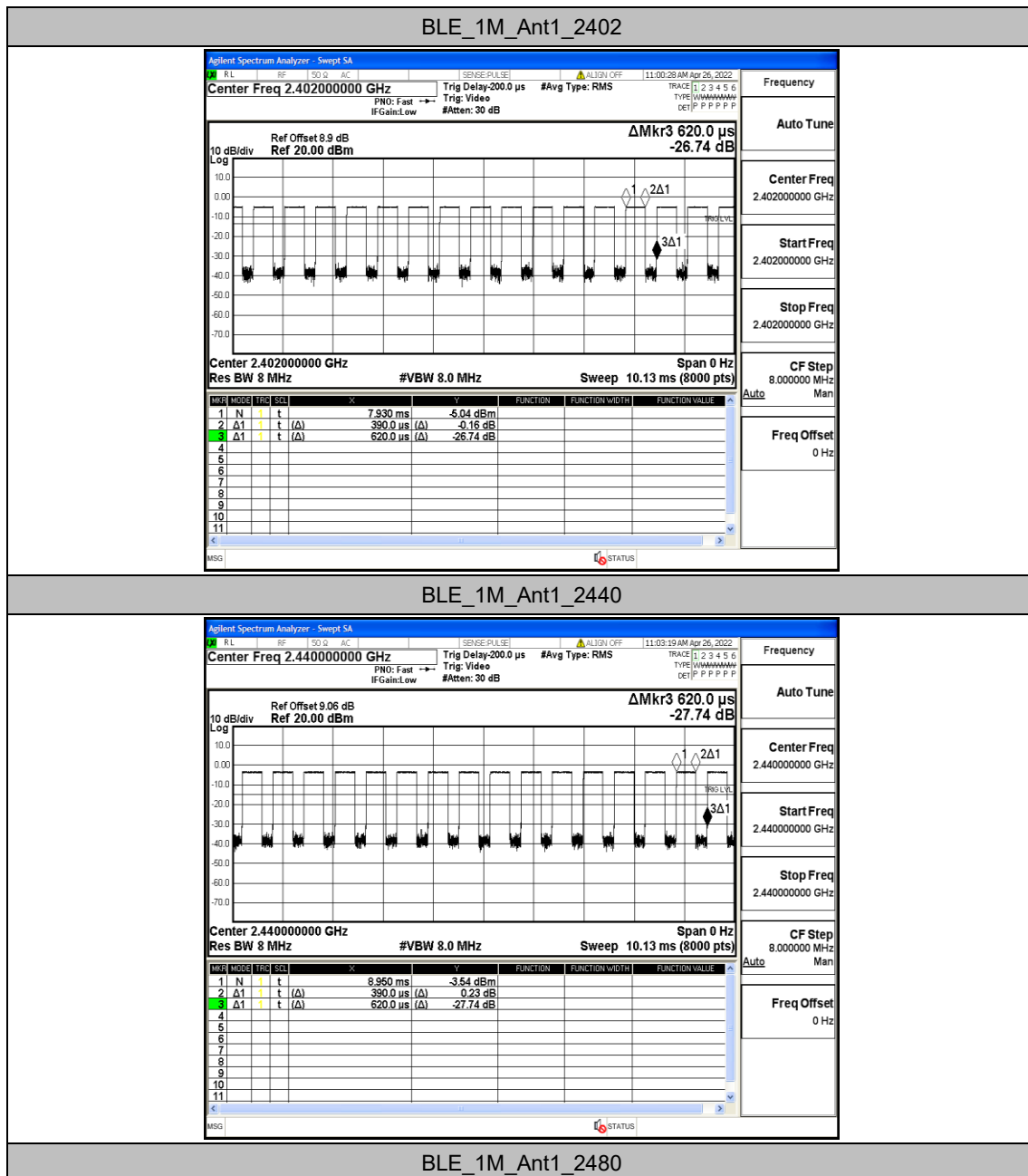


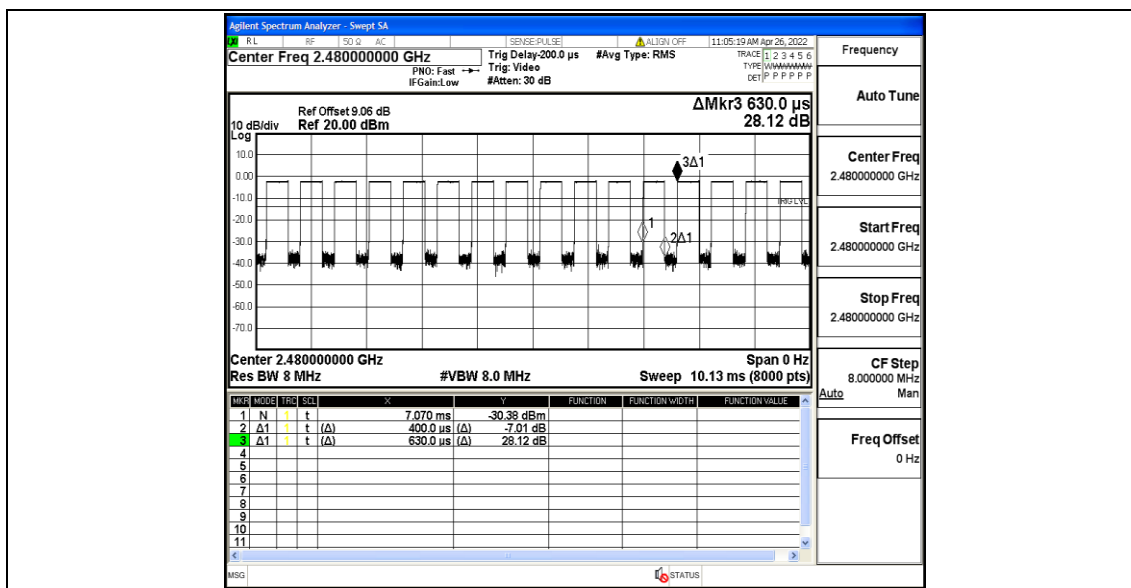
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T
BLE_1M	Ant1	2402	0.39	0.62	62.90	2.56
		2440	0.39	0.62	62.90	2.56
		2480	0.40	0.63	63.49	2.50

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	-49.02	≤-41.20	PASS
				AV	2385.575	-48.23	≤-41.20	PASS
				AV	2390.000	-48.38	≤-41.20	PASS
				Peak	2310.000	-42.46	≤-21.20	PASS
				Peak	2326.040	-39.12	≤-21.20	PASS
				Peak	2390.000	-42.85	≤-21.20	PASS
		High	2480	AV	2483.500	-47.89	≤-41.20	PASS
				AV	2499.280	-47.45	≤-41.20	PASS
				AV	2500.000	-48.05	≤-41.20	PASS
				Peak	2483.500	-41.9	≤-21.20	PASS
				Peak	2484.800	-39.56	≤-21.20	PASS
				Peak	2500.000	-42.21	≤-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

