

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

Product Name: 4K HDMI dongle

Trade Mark: Homatics

Test Model: SN8BAGC

FCC ID: 2A0VU-DONGLEQ

Environmental Conditions

Temperature:	24.3°C
Relative Humidity:	56%
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	0.652	2401.700	2402.352	0.5	PASS
		2440	0.652	2439.700	2440.352	0.5	PASS
		2480	0.676	2479.680	2480.356	0.5	PASS

Test Graphs

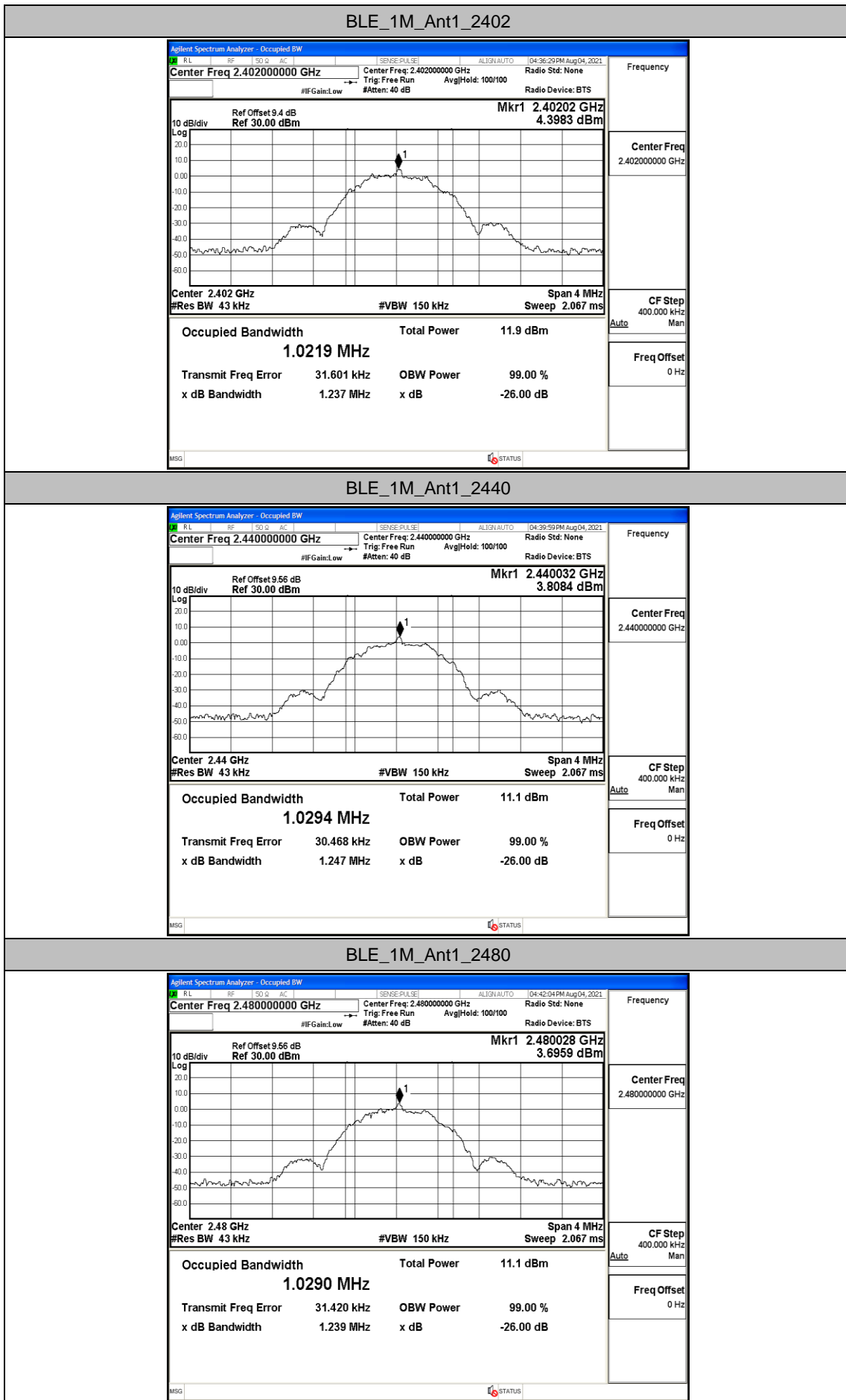


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0219	2401.521	2402.543	---	PASS
		2440	1.0294	2439.516	2440.545	---	PASS
		2480	1.0290	2479.517	2480.546	---	PASS

Test Graphs

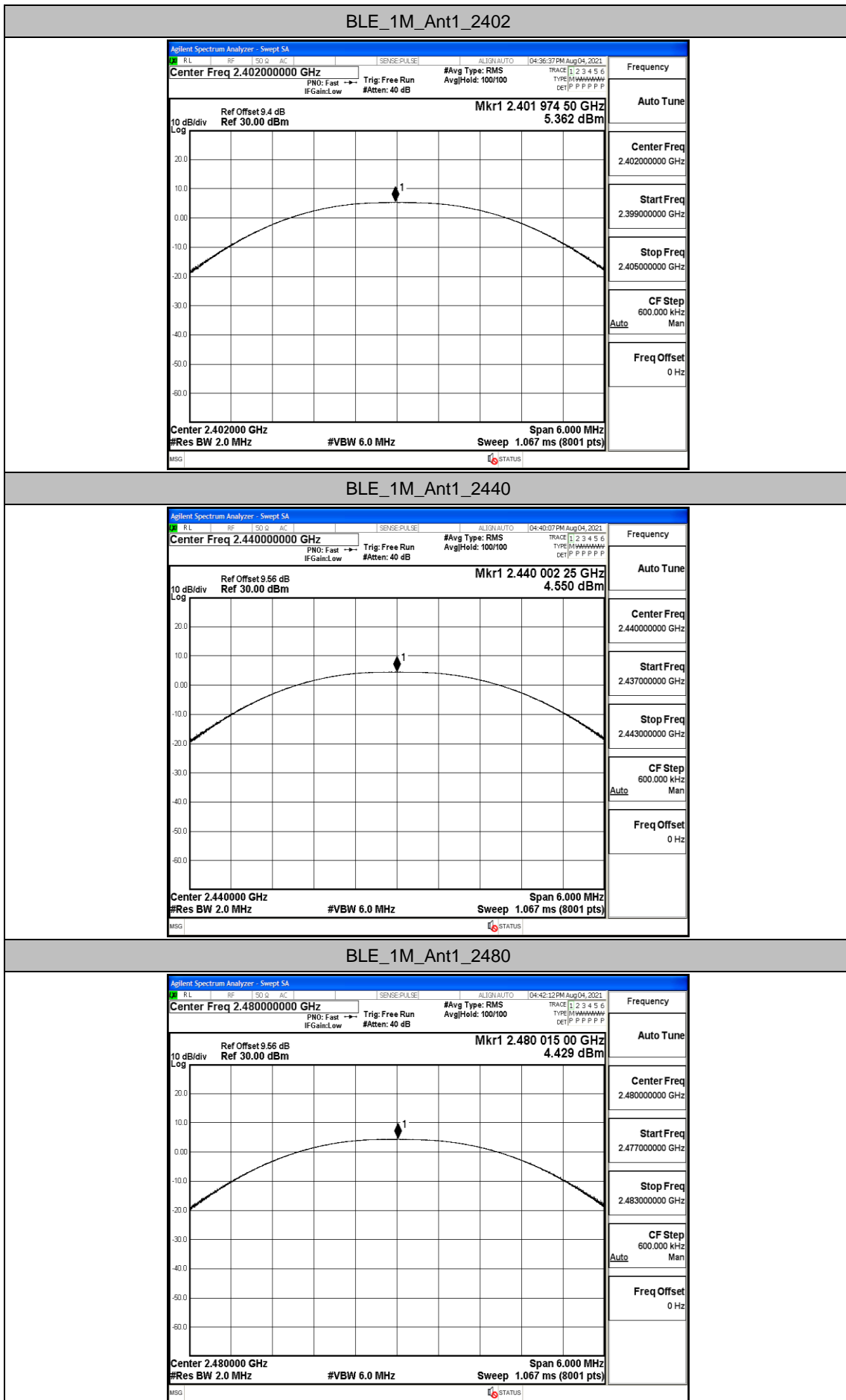


Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	5.36	≤30	PASS
		2440	4.55	≤30	PASS
		2480	4.43	≤30	PASS

Test Graphs

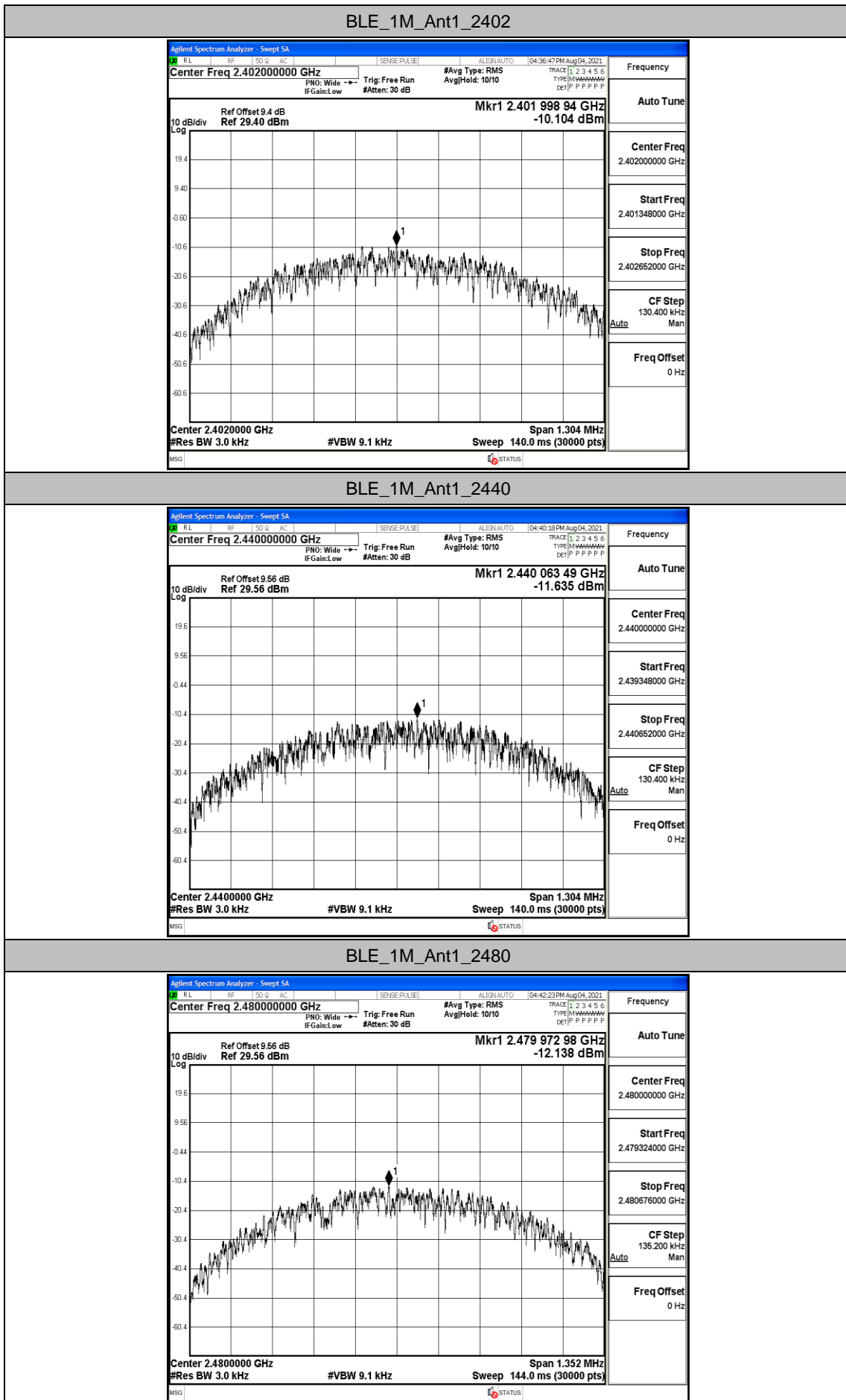


Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.1	≤8	PASS
		2440	-11.64	≤8	PASS
		2480	-12.14	≤8	PASS

Test Graphs

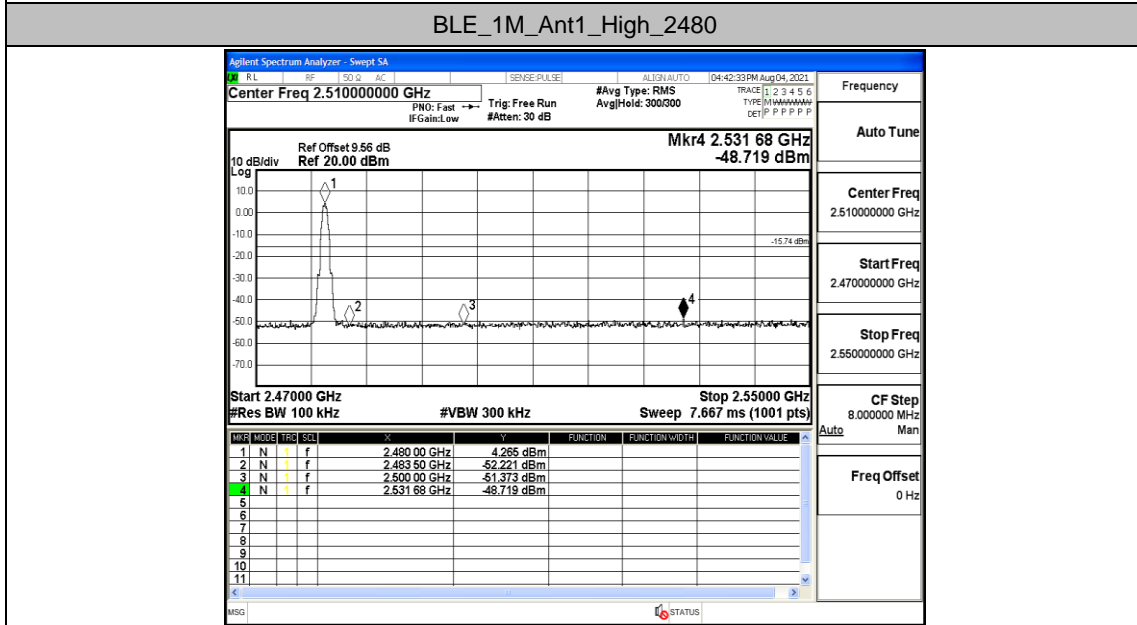
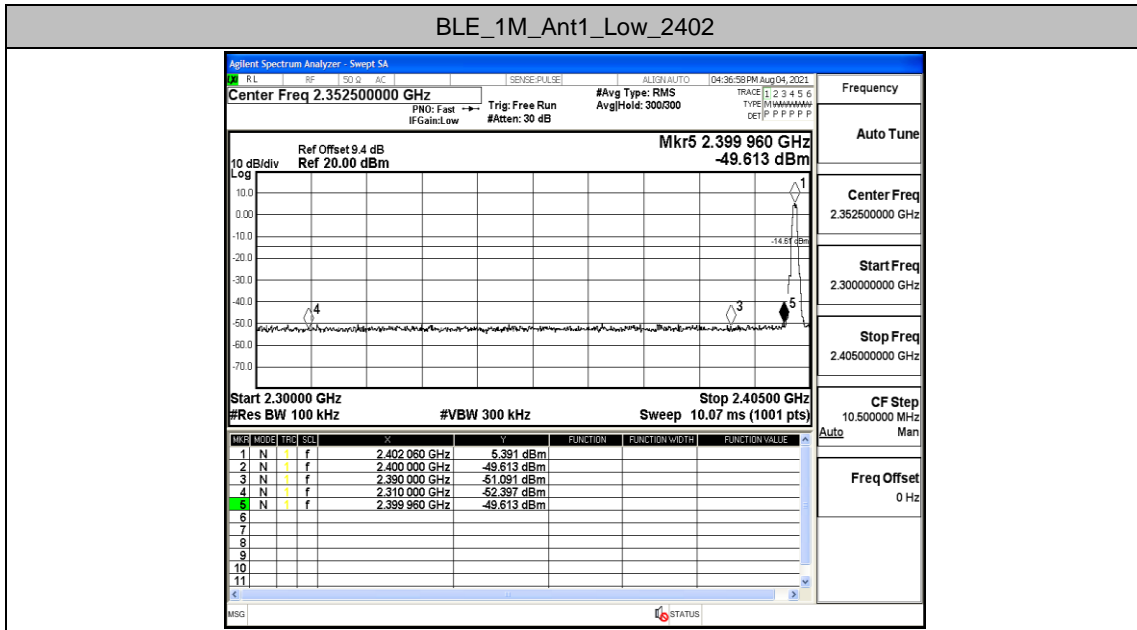


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	5.39	-49.61	≤-14.61	PASS
		High	2480	4.27	-48.72	≤-15.74	PASS

Test Graphs

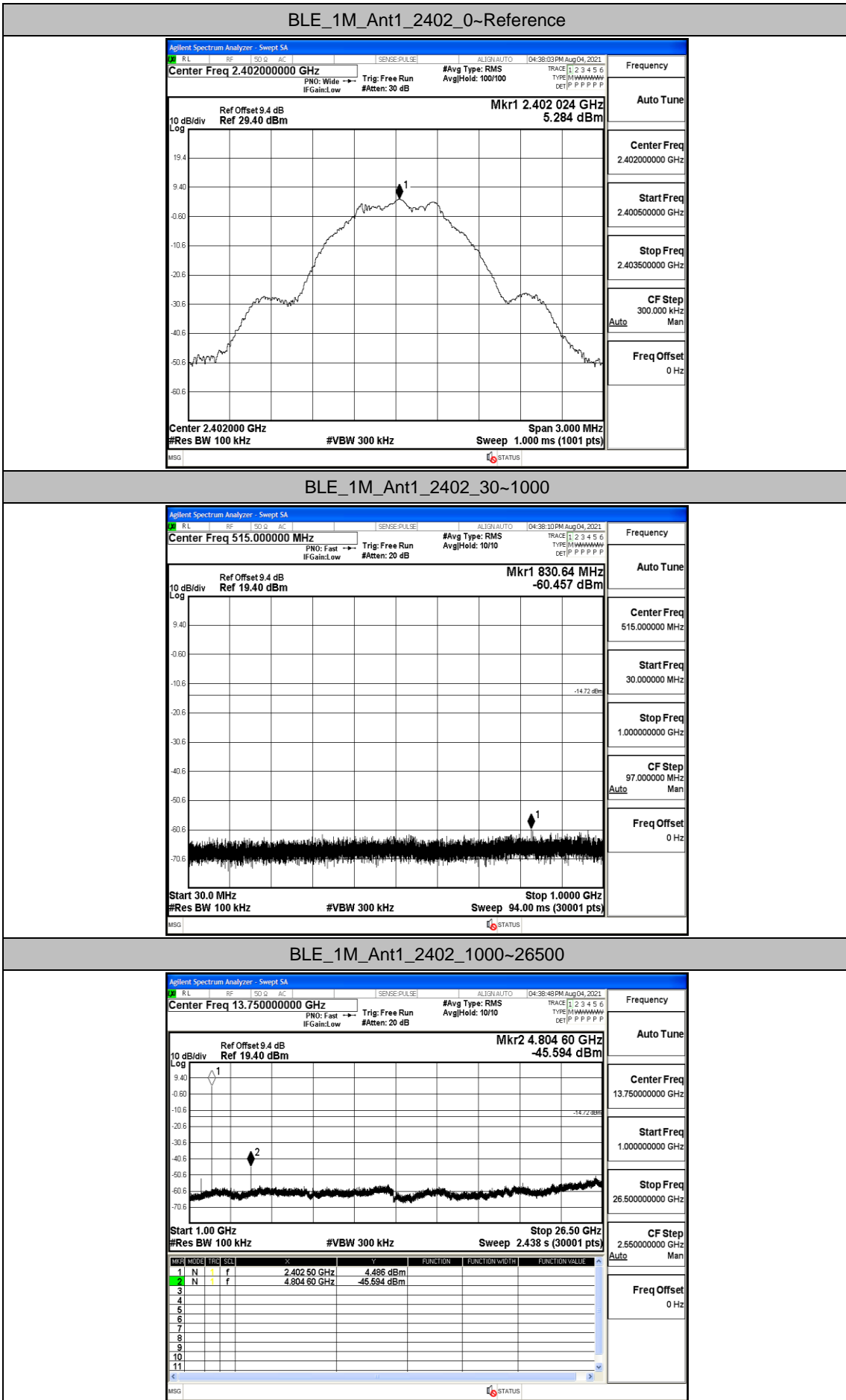


Appendix F: Conducted Spurious Emission

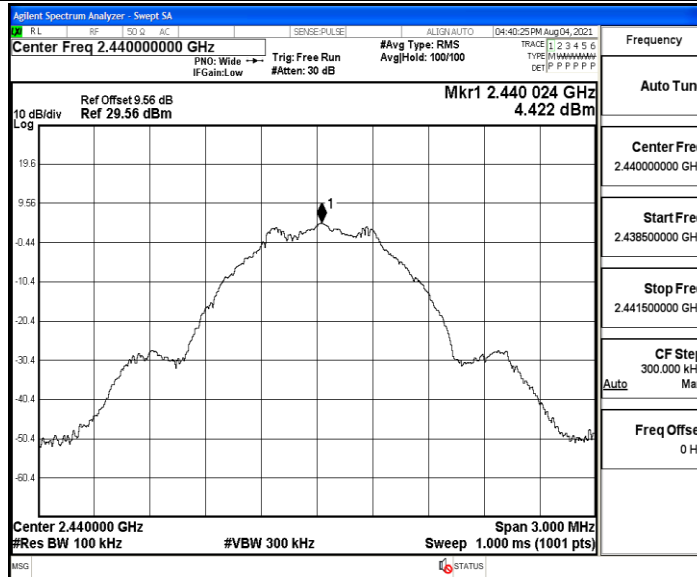
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	5.28	5.28	---	PASS
			30~1000	5.28	-60.46	≤-14.72	PASS
			1000~26500	5.28	-45.59	≤-14.72	PASS
		2440	Reference	4.42	4.42	---	PASS
			30~1000	4.42	-60.86	≤-15.58	PASS
			1000~26500	4.42	-44.16	≤-15.58	PASS
		2480	Reference	4.22	4.22	---	PASS
			30~1000	4.22	-60.85	≤-15.78	PASS
			1000~26500	4.22	-48.37	≤-15.78	PASS

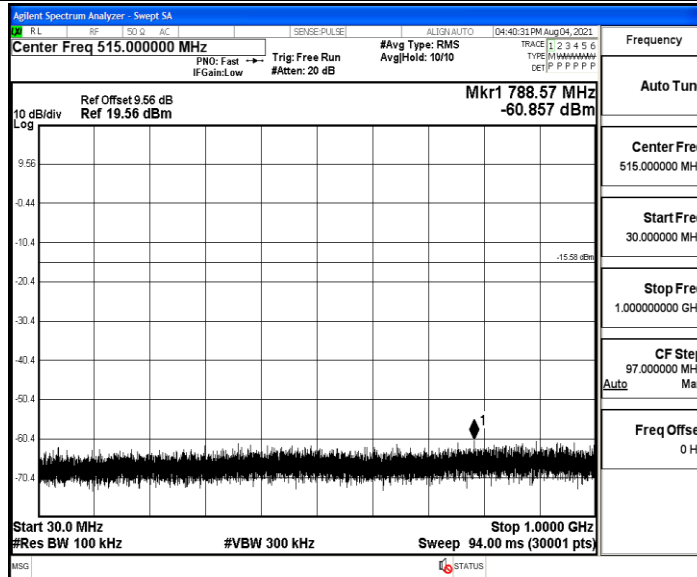
Test Graphs



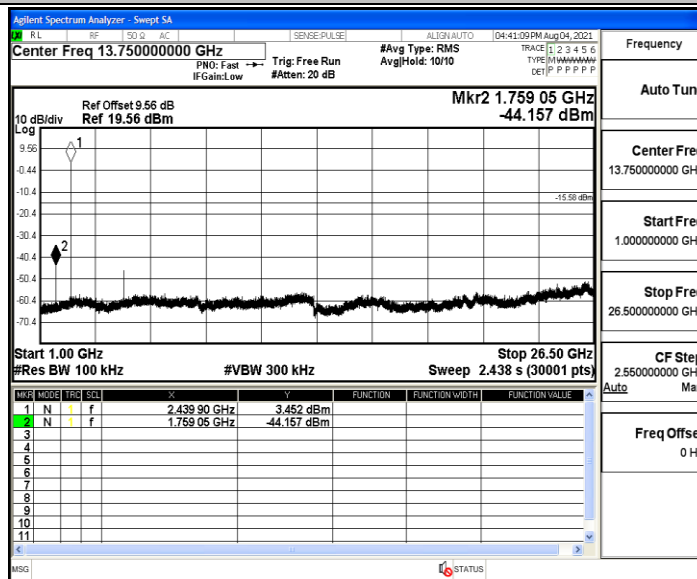
BLE_1M_Ant1_2440_0~Reference



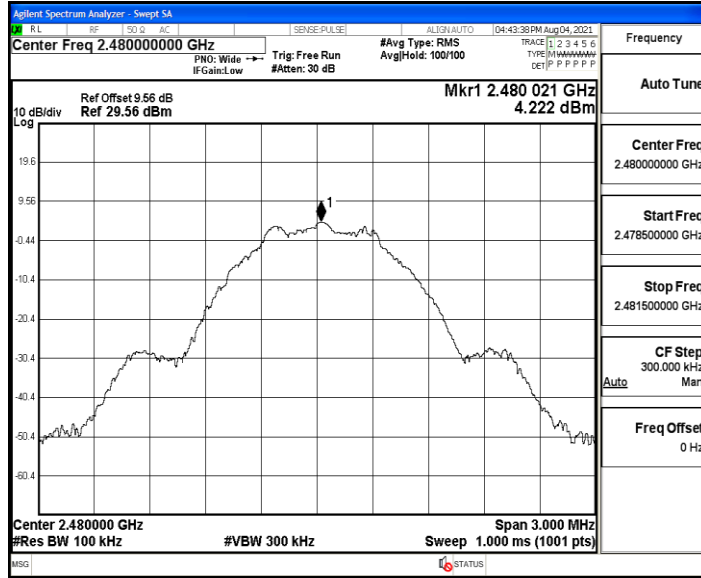
BLE_1M_Ant1_2440_30~1000



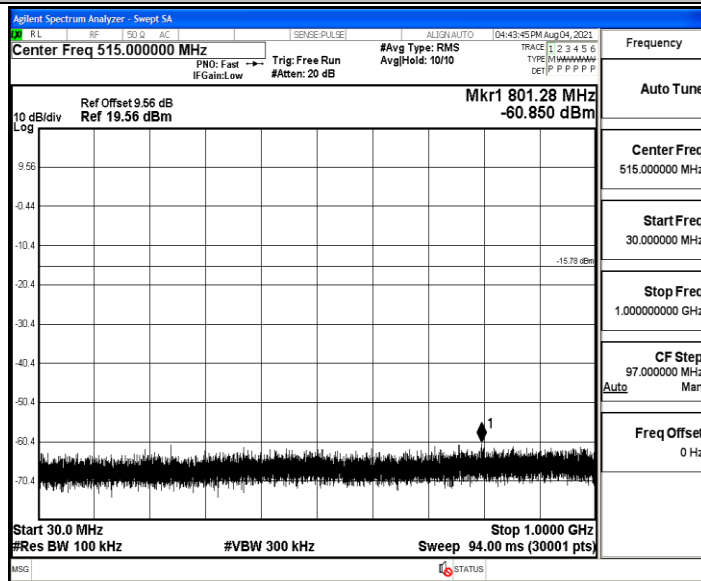
BLE_1M_Ant1_2440_1000~26500



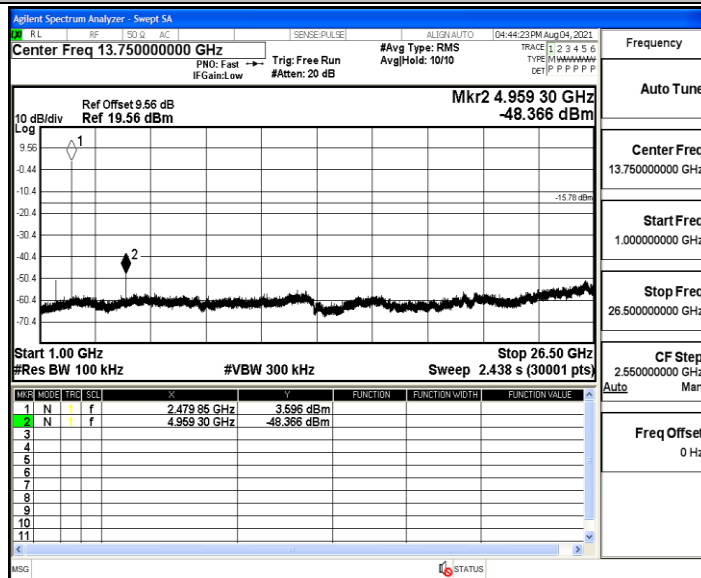
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

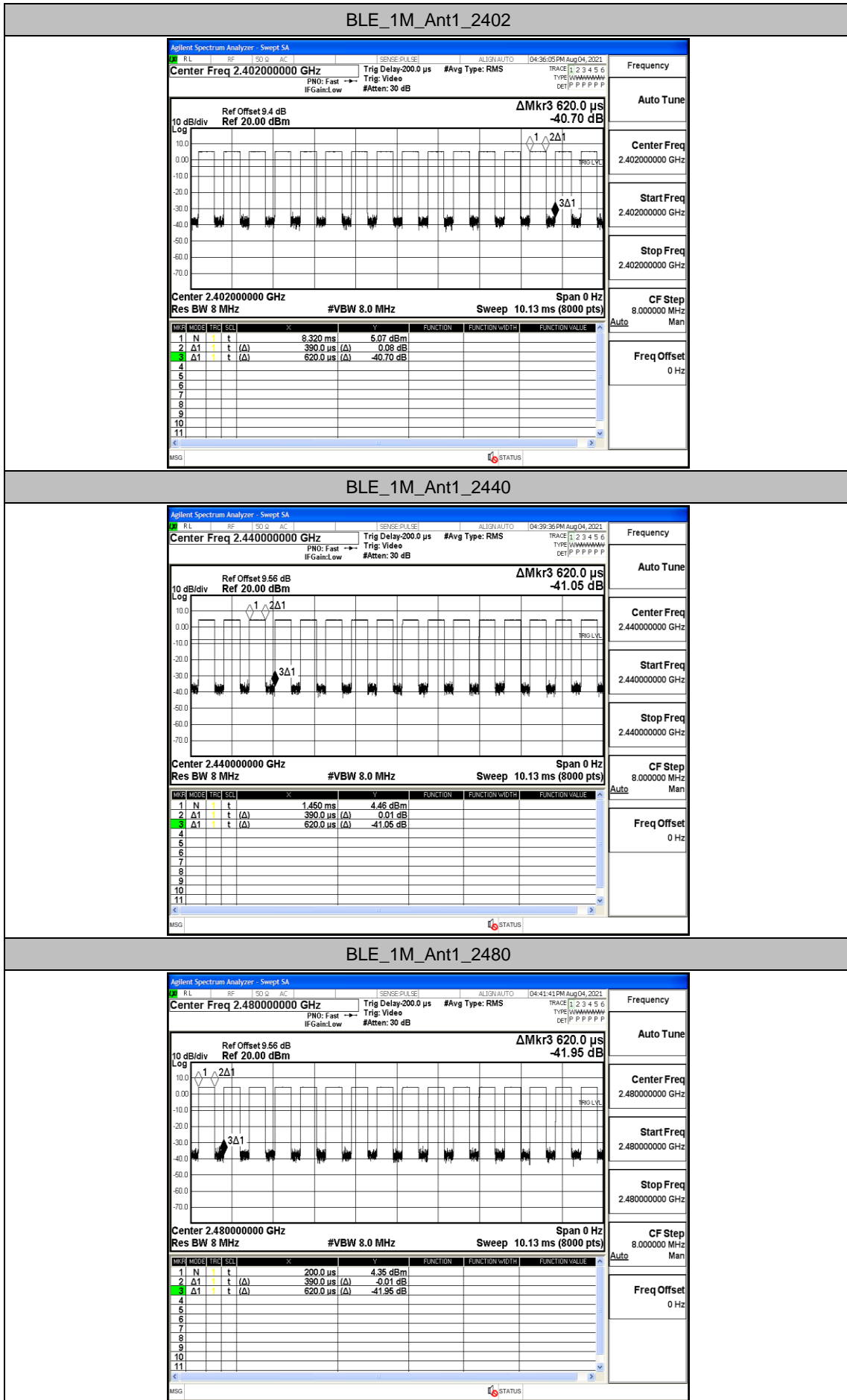


Appendix G: Duty Cycle

Test Result

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

Test Graphs



Appendix H: Emissions in Restricted Bands

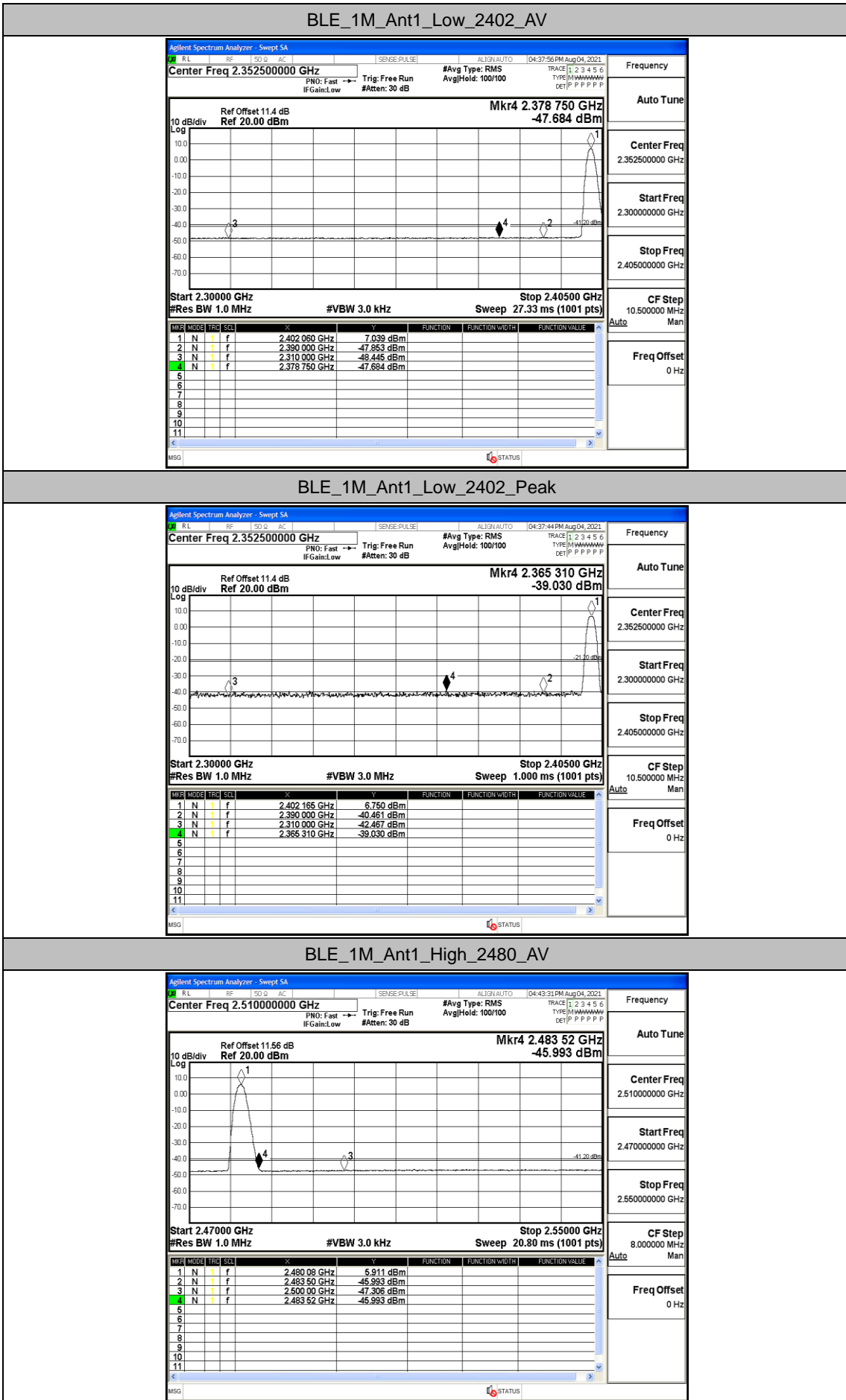
Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-48.45	≤-41.20	PASS
				AV	2378.750	-47.68	≤-41.20	PASS
				AV	2390.000	-47.85	≤-41.20	PASS
				Peak	2310.000	-42.47	≤-21.20	PASS
				Peak	2365.310	-39.03	≤-21.20	PASS
				Peak	2390.000	-40.46	≤-21.20	PASS
		High	2480	AV	2483.500	-45.99	≤-41.20	PASS
				AV	2483.520	-45.99	≤-41.20	PASS
				AV	2500.000	-47.31	≤-41.20	PASS
				Peak	2483.500	-40.36	≤-21.20	PASS
				Peak	2485.120	-38.06	≤-21.20	PASS
				Peak	2500.000	-40.22	≤-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_High_2480_Peak

