

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

Product Name: Tablet PC

Trade Mark: **ZDK**

Test Model: T30

FCC ID: 2A97PT30

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

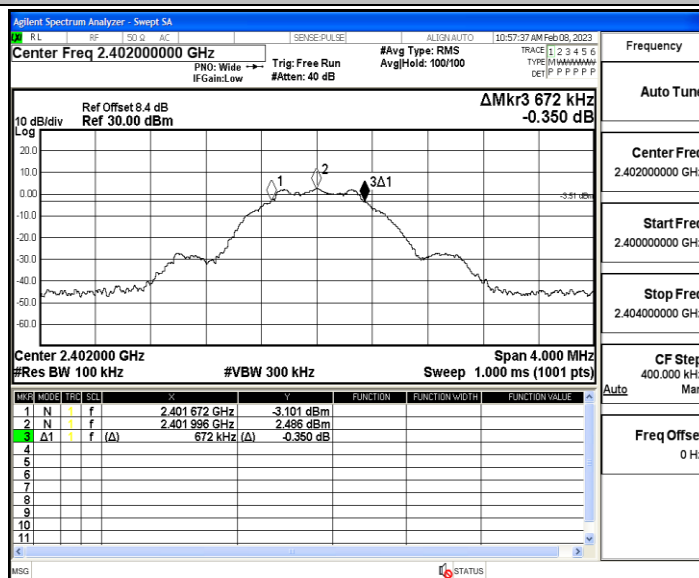
Appendix A: DTS Bandwidth

Test Result

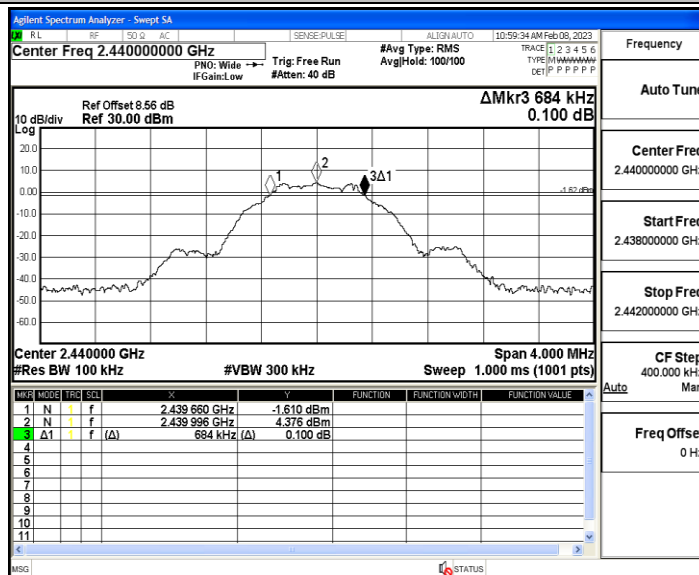
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.672	2401.672	2402.344	0.5	PASS
		2440	0.684	2439.660	2440.344	0.5	PASS
		2480	0.712	2479.636	2480.348	0.5	PASS

Test Graphs

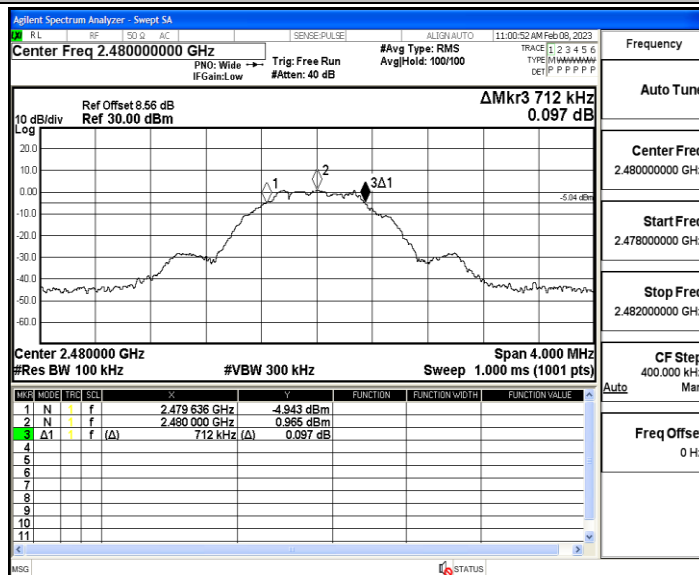
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



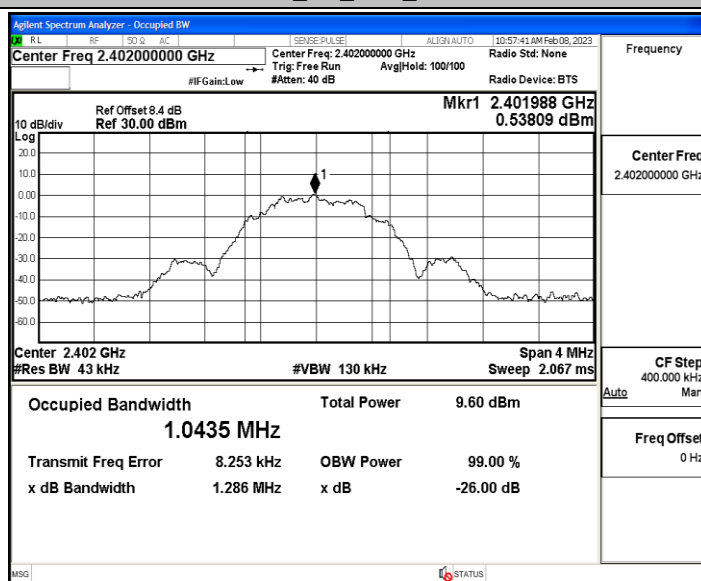
Appendix B: Occupied Channel Bandwidth

Test Result

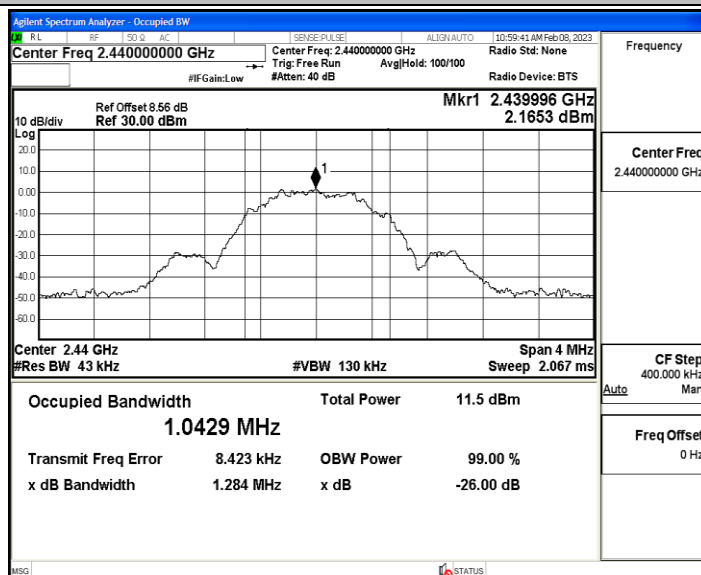
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0435	2401.4865	2402.5300	---	---
		2440	1.0429	2439.4870	2440.5299	---	---
		2480	1.0494	2479.4821	2480.5315	---	---

Test Graphs

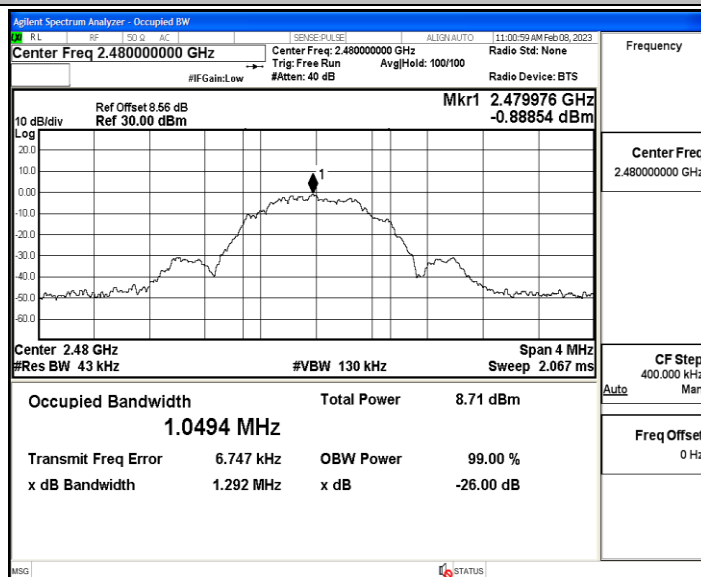
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



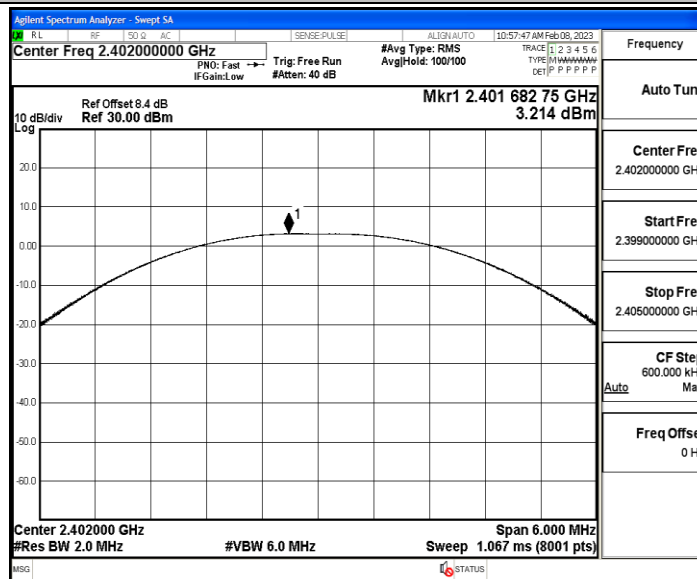
Appendix C: Maximum Peak conducted output power

Test Result

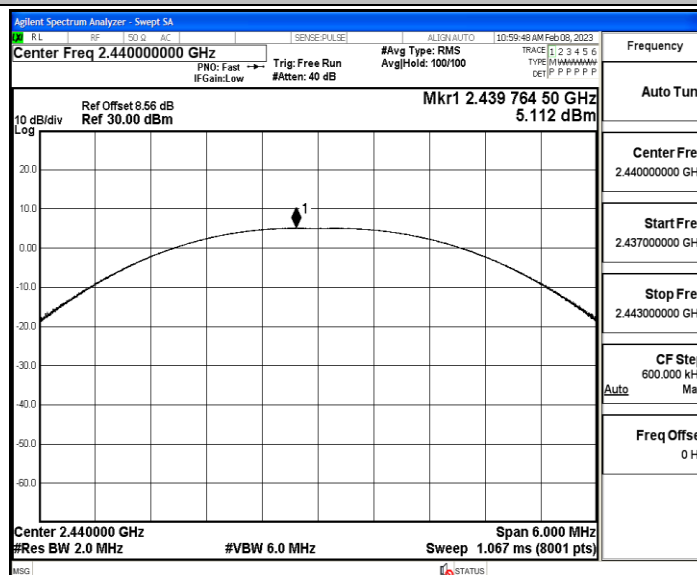
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.21	≤30	PASS
		2440	5.11	≤30	PASS
		2480	2.52	≤30	PASS

Test Graphs

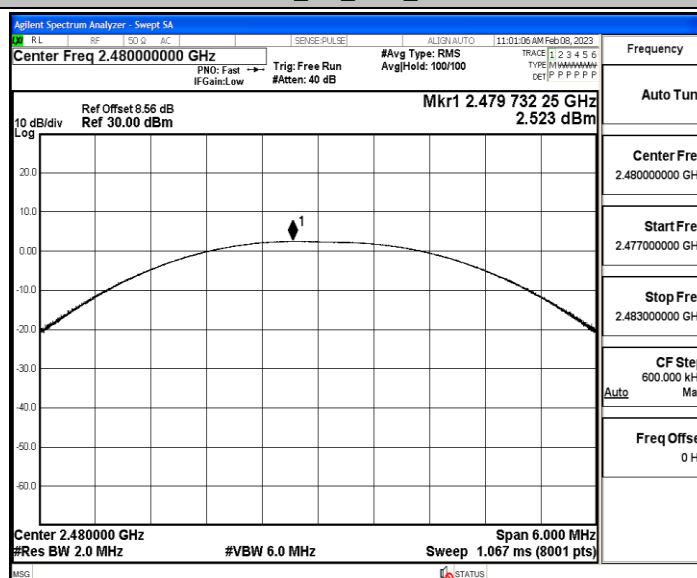
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



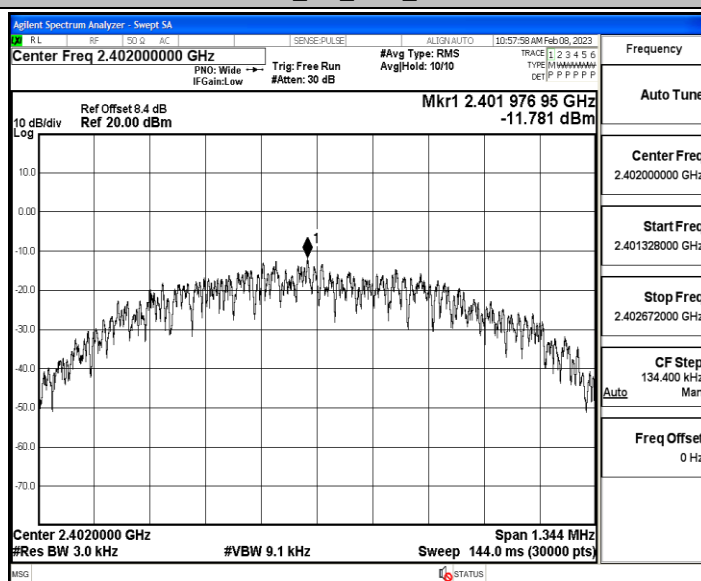
Appendix D: Maximum power spectral density

Test Result

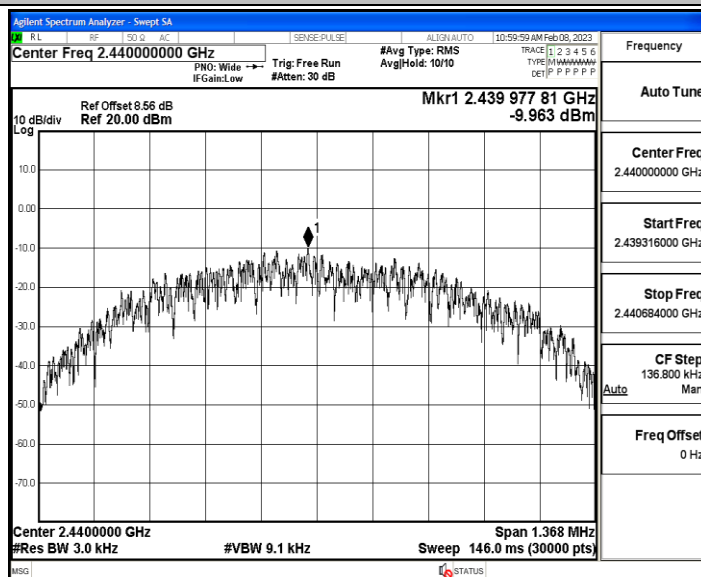
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.78	≤8.00	PASS
		2440	-9.96	≤8.00	PASS
		2480	-12.39	≤8.00	PASS

Test Graphs

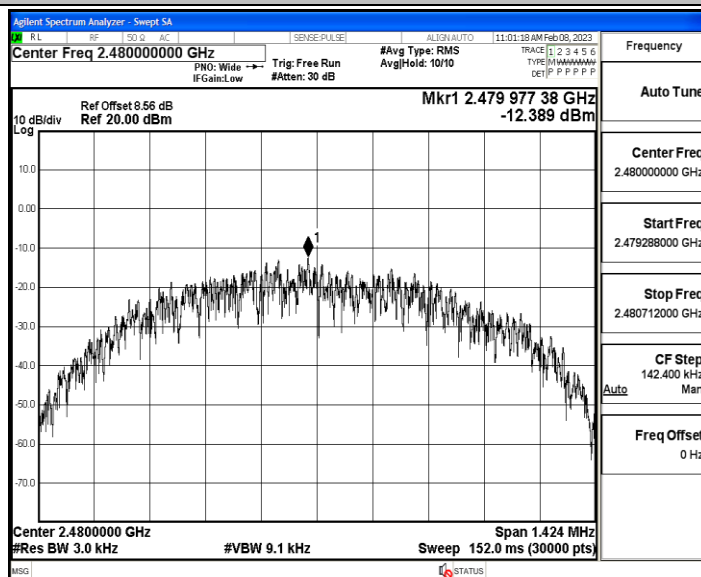
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



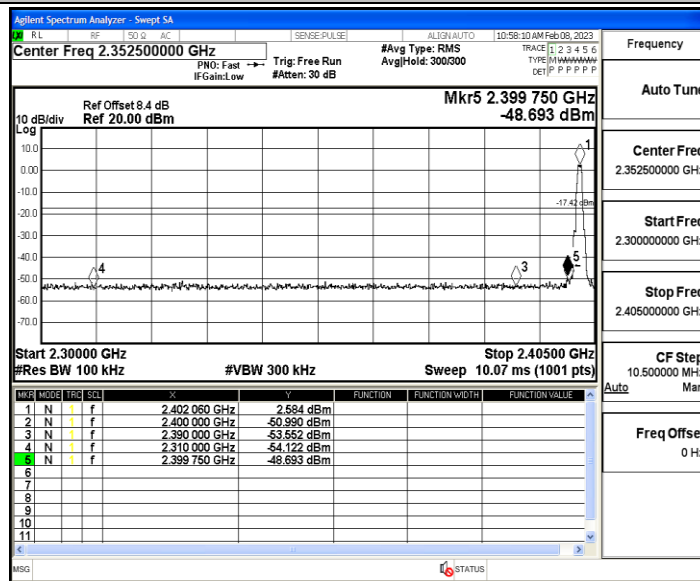
Appendix E: Band edge measurements

Test Result

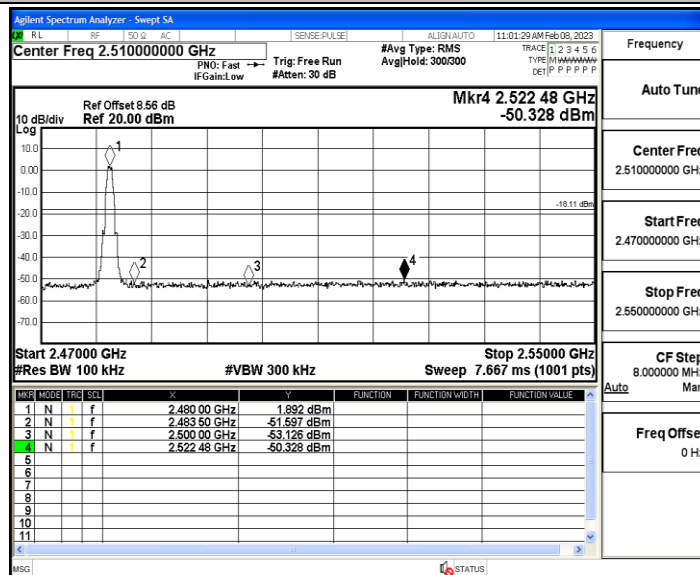
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.58	-48.69	≤-17.42	PASS
		High	2480	1.89	-50.33	≤-18.11	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



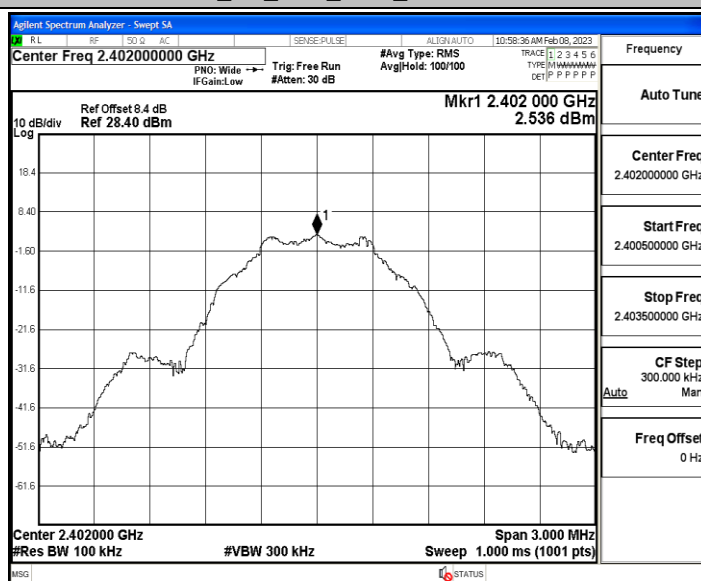
Appendix F: Conducted Spurious Emission

Test Result

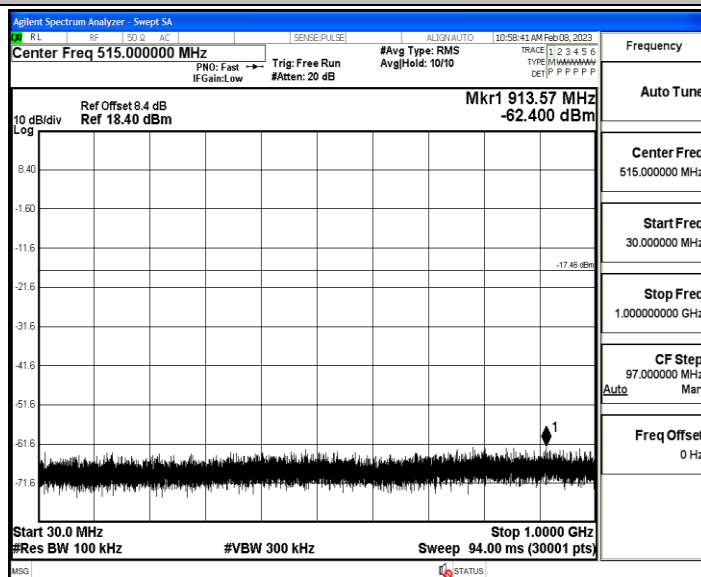
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.54	2.54	---	PASS
			30~1000	2.54	-62.4	≤-17.46	PASS
			1000~26500	2.54	-52.36	≤-17.46	PASS
		2440	Reference	4.43	4.43	---	PASS
			30~1000	4.43	-61.99	≤-15.57	PASS
			1000~26500	4.43	-51.95	≤-15.57	PASS
		2480	Reference	1.71	1.71	---	PASS
			30~1000	1.71	-61.9	≤-18.29	PASS
			1000~26500	1.71	-51.29	≤-18.29	PASS

Test Graphs

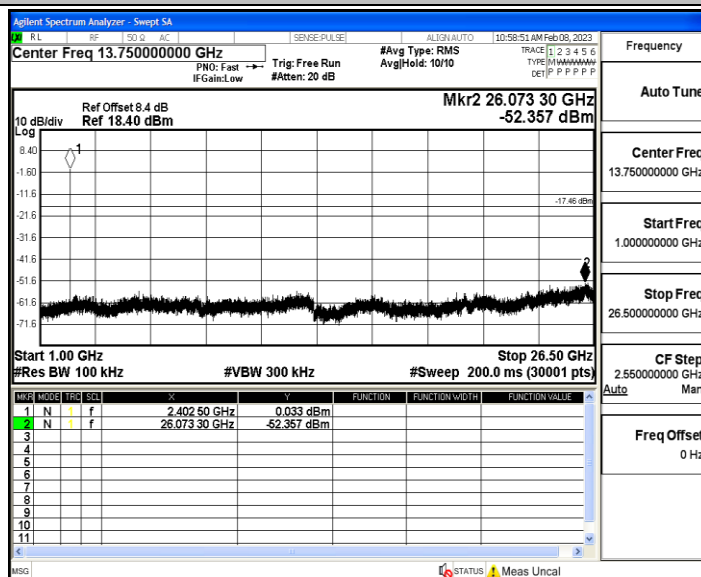
BLE_1M_Ant1_2402_0~Reference



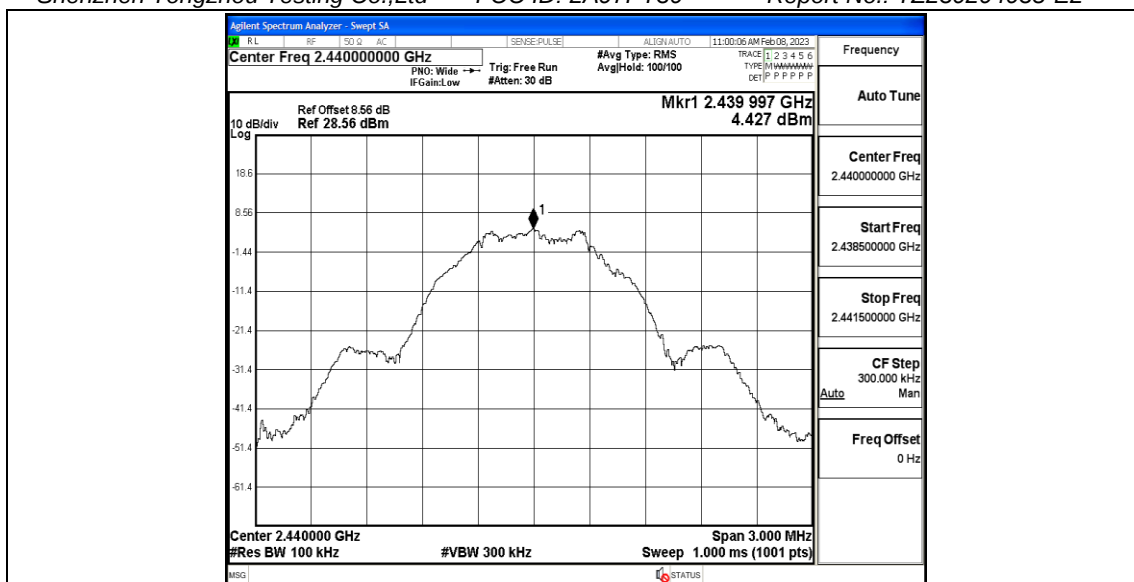
BLE_1M_Ant1_2402_30~1000



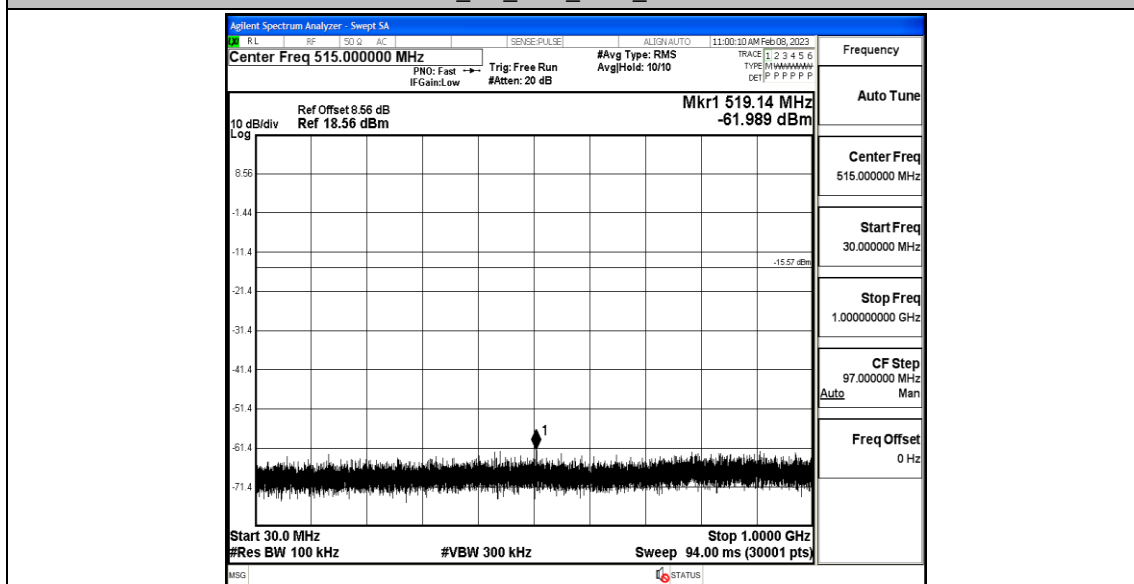
BLE_1M_Ant1_2402_1000~26500



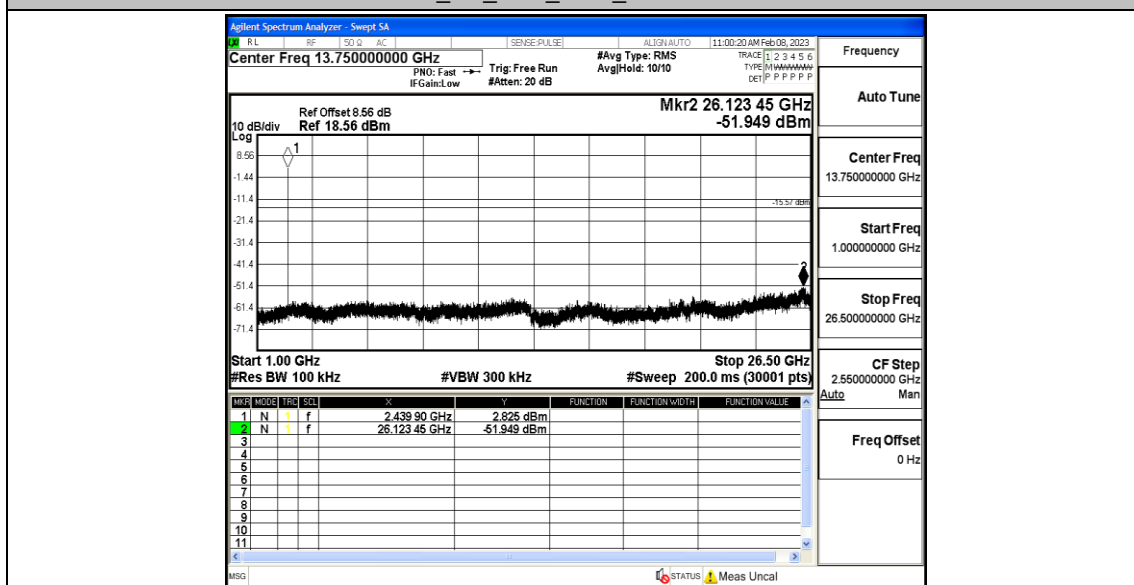
BLE_1M_Ant1_2440_0~Reference



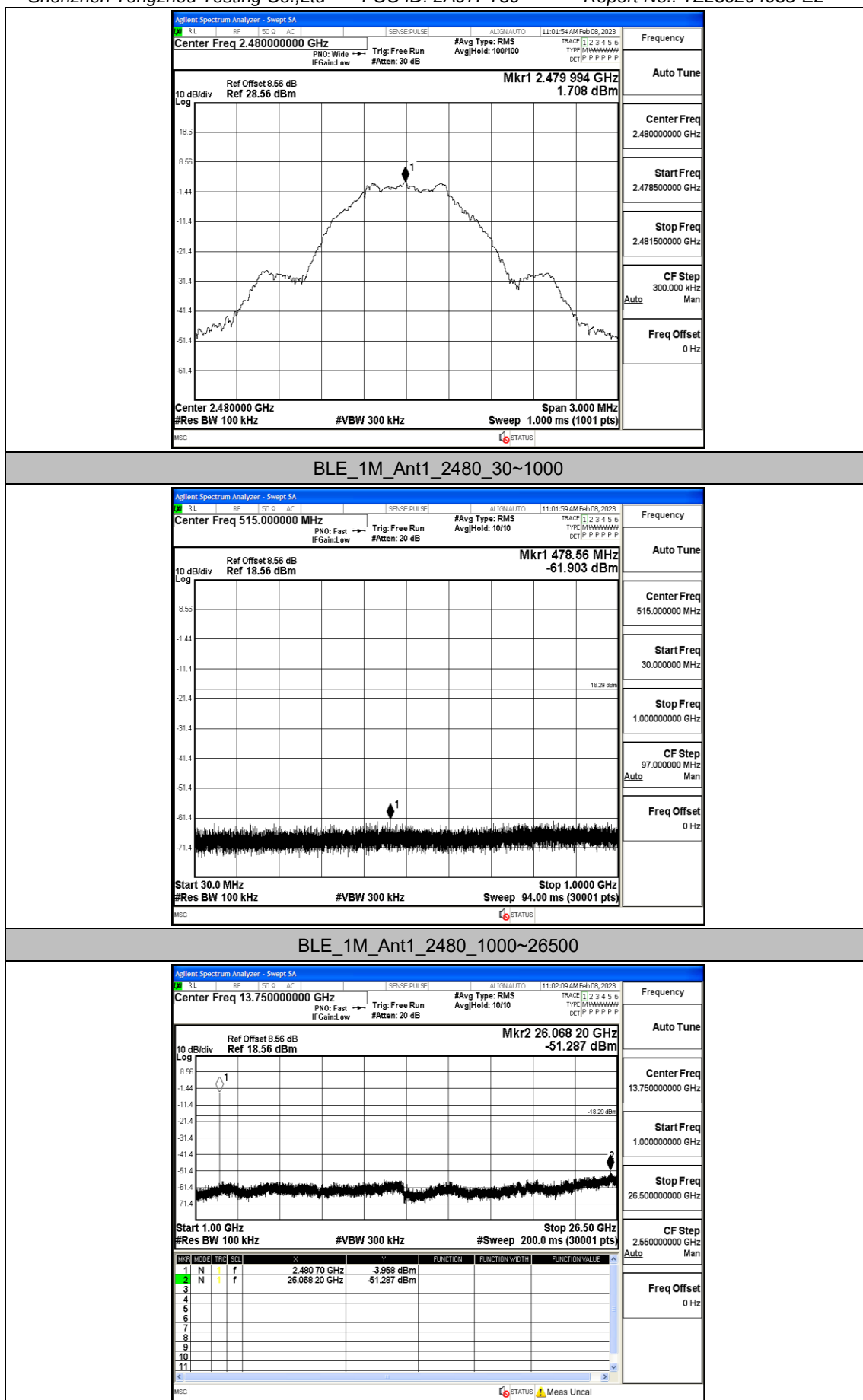
BLE_1M_Ant1_2440_30~1000



BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



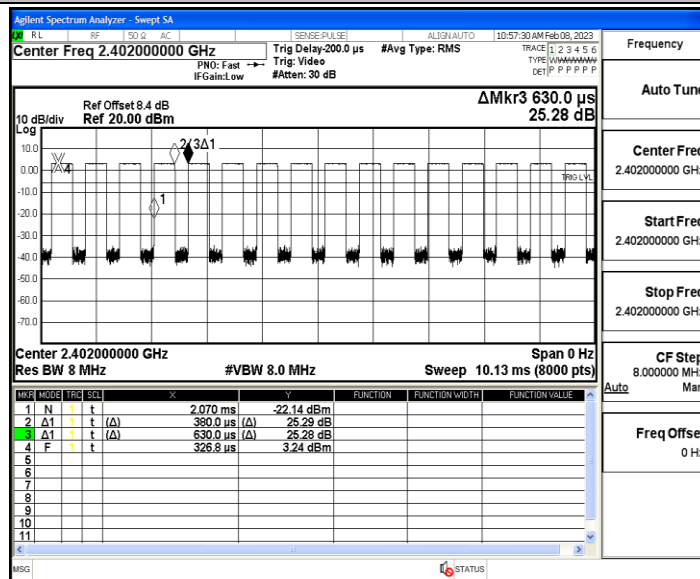
Appendix G: Duty Cycle

Test Result

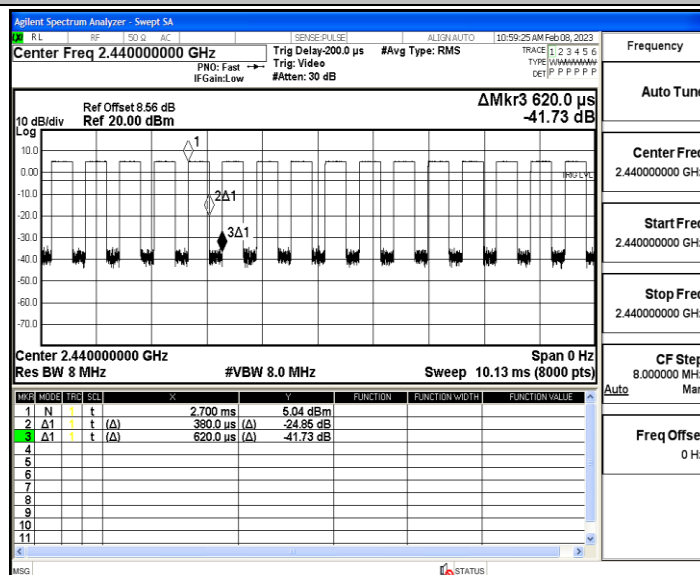
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
BLE_1M	Ant1	2402	0.38	0.63	60.32	2.63
		2440	0.38	0.62	61.29	2.63
		2480	0.38	0.63	60.32	2.63

Test Graphs

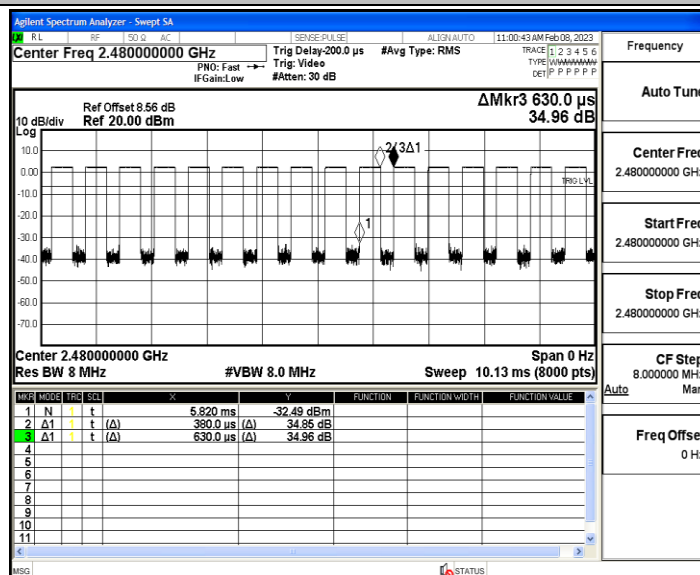
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix H: Emissions in Restricted Bands

Test Result

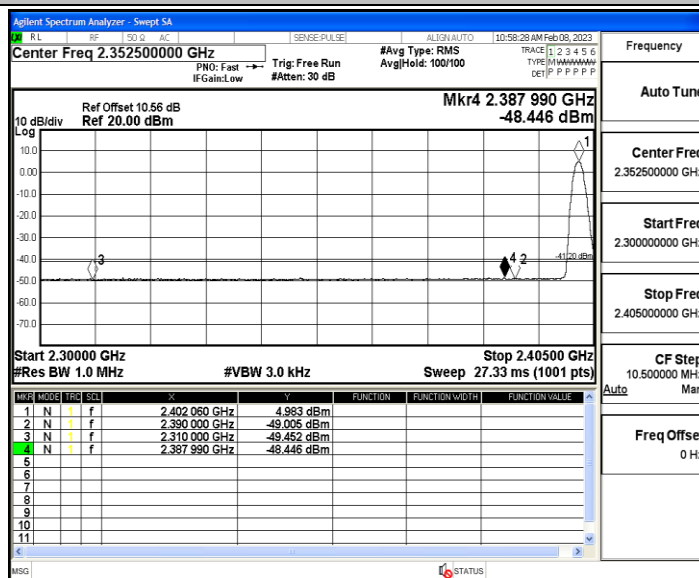
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-49.45	≤-41.20	PASS
				AV	2387.990	-48.45	≤-41.20	PASS
				AV	2390.000	-49.01	≤-41.20	PASS
				Peak	2310.000	-43.52	≤-21.20	PASS
				Peak	2339.900	-39.72	≤-21.20	PASS
				Peak	2390.000	-43.26	≤-21.20	PASS
		High	2480	AV	2483.500	-47.64	≤-41.20	PASS
				AV	2483.520	-47.64	≤-41.20	PASS
				AV	2500.000	-47.81	≤-41.20	PASS
				Peak	2483.500	-42.45	≤-21.20	PASS
				Peak	2498.480	-39.43	≤-21.20	PASS
				Peak	2500.000	-41.2	≤-21.20	PASS

Note:

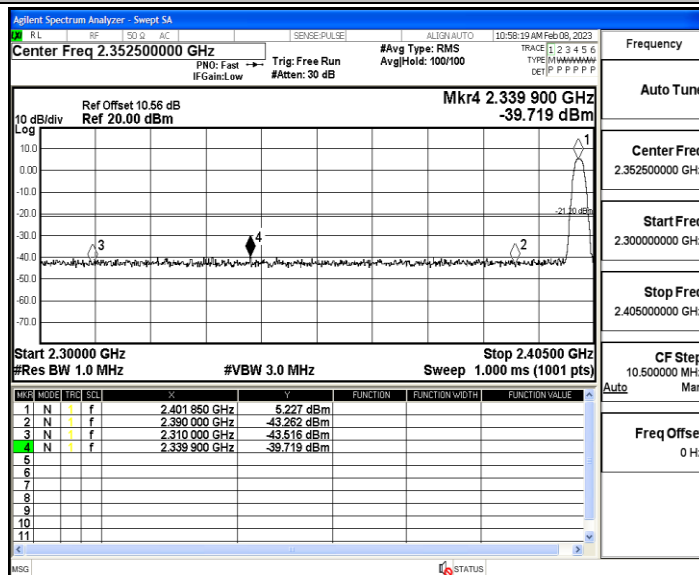
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

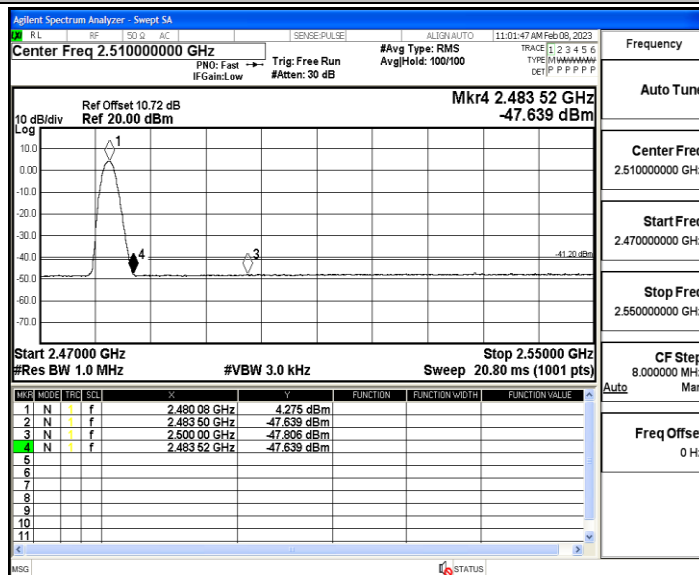
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

