

Appendix Test Data for Zigbee (Conducted Measurement)

Product Name: Smart Switch

Trade Mark: Dusun

Test Model: DSW-080

FCC ID: 2AUXB-DSW-080

Environmental Conditions

Temperature:	22.8℃
Relative Humidity:	59%
ATM Pressure:	100.0 kPa
Test :	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

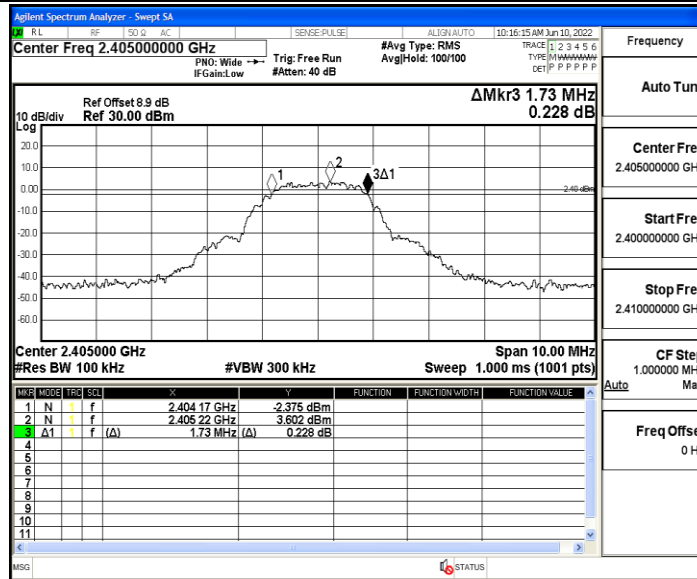
Appendix A: DTS Bandwidth

Test Result

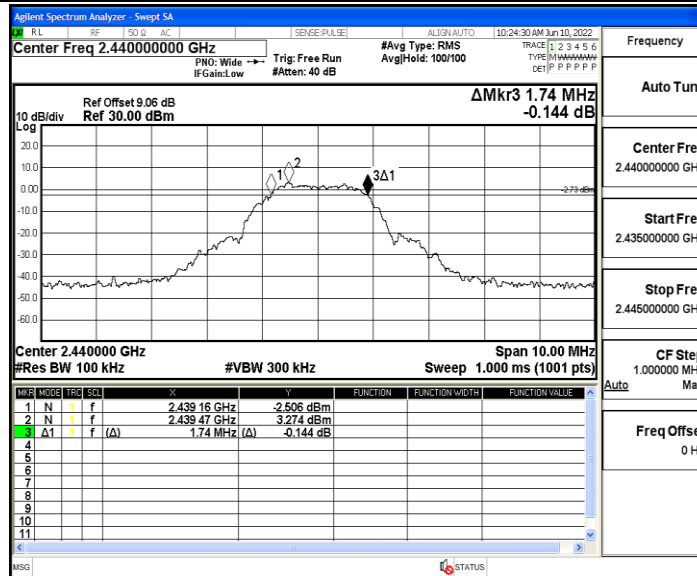
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
ZIGB	Ant1	2405	1.730	2404.170	2405.900	0.5	PASS
		2440	1.740	2439.160	2440.900	0.5	PASS
		2480	1.730	2479.170	2480.900	0.5	PASS

Test Graphs

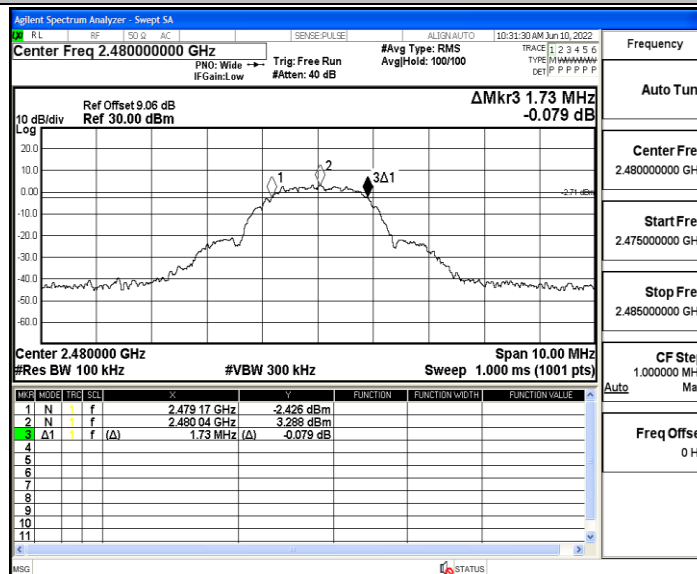
ZIGB_Ant1_2405



ZIGB_Ant1_2440



ZIGB_Ant1_2480



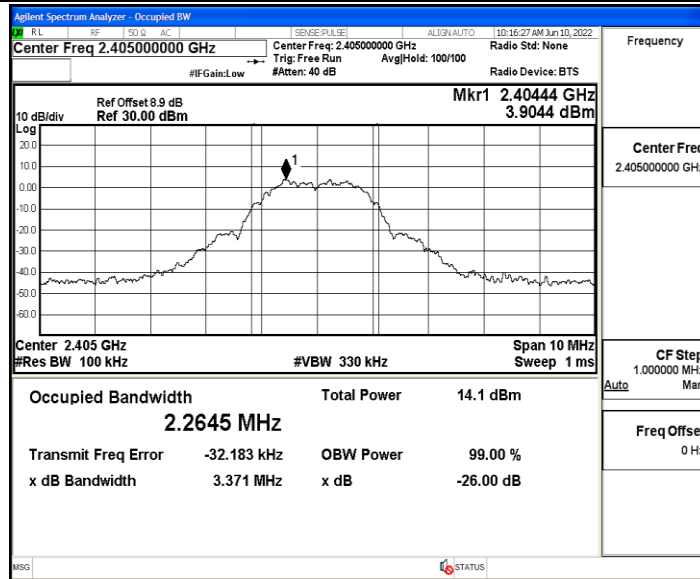
Appendix B: Occupied Channel Bandwidth

Test Result

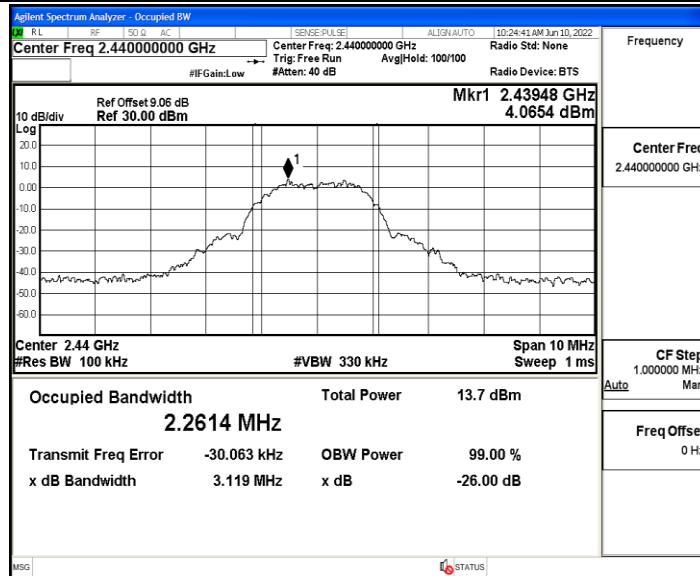
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
ZIGB	Ant1	2405	2.2645	2403.836	2406.100	---	---
		2440	2.2614	2438.839	2441.101	---	---
		2480	2.2887	2478.820	2481.109	---	---

Test Graphs

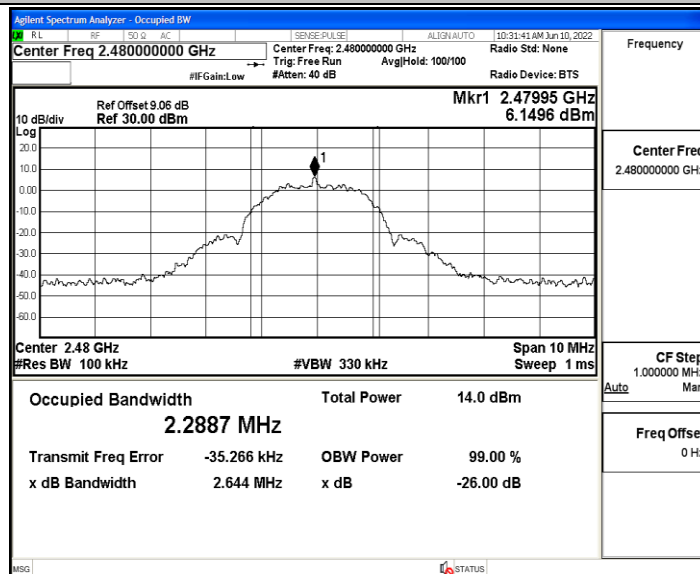
ZIGB_Ant1_2405



ZIGB_Ant1_2440



ZIGB_Ant1_2480



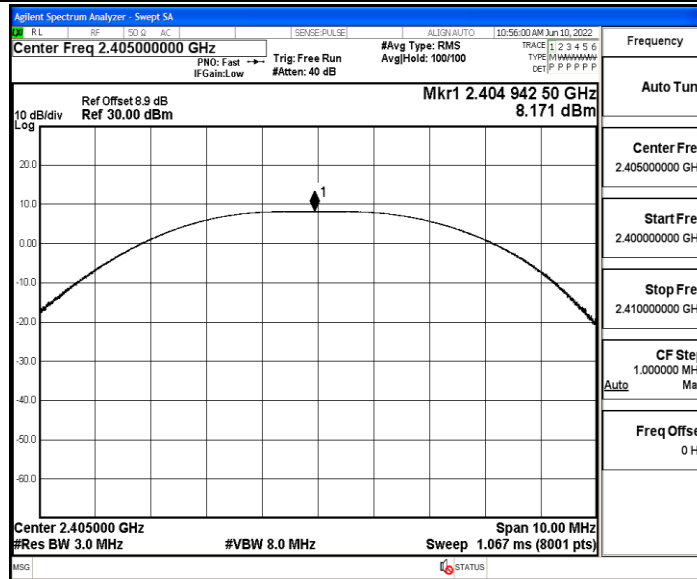
Appendix C: Maximum conducted output power

Test Result

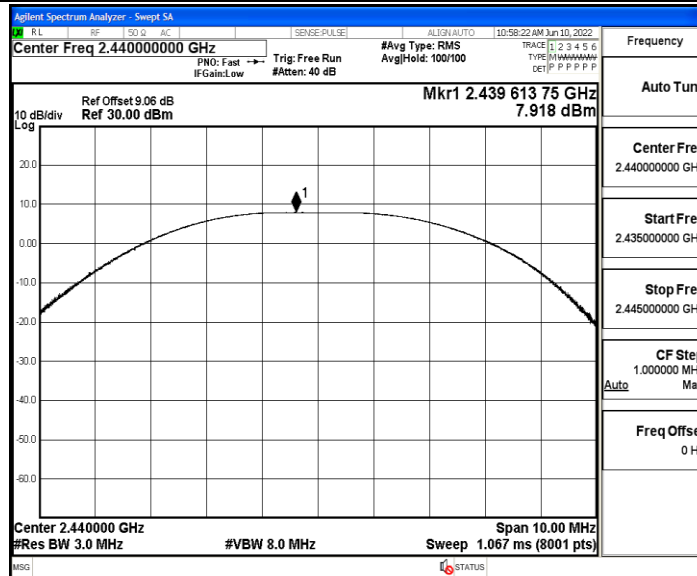
TestMode	Antenna	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
ZIGB	Ant1	2405	8.17	≤30	PASS
		2440	7.92	≤30	PASS
		2480	7.93	≤30	PASS

Test Graphs

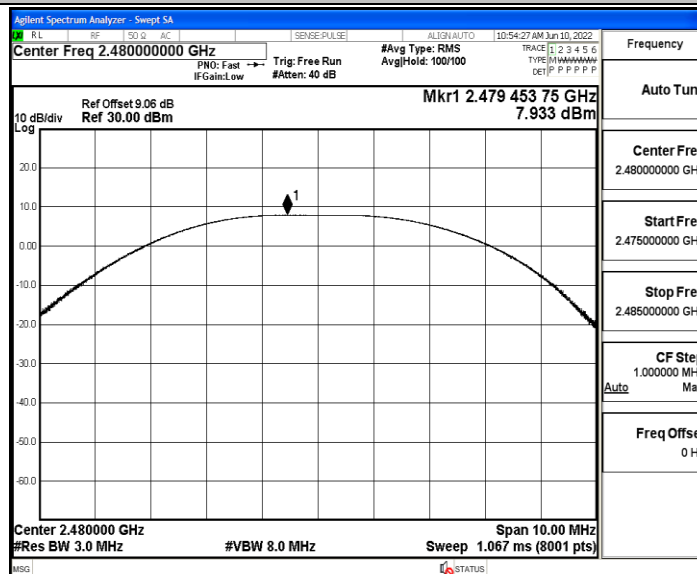
ZIGB_Ant1_2405



ZIGB_Ant1_2440



ZIGB_Ant1_2480



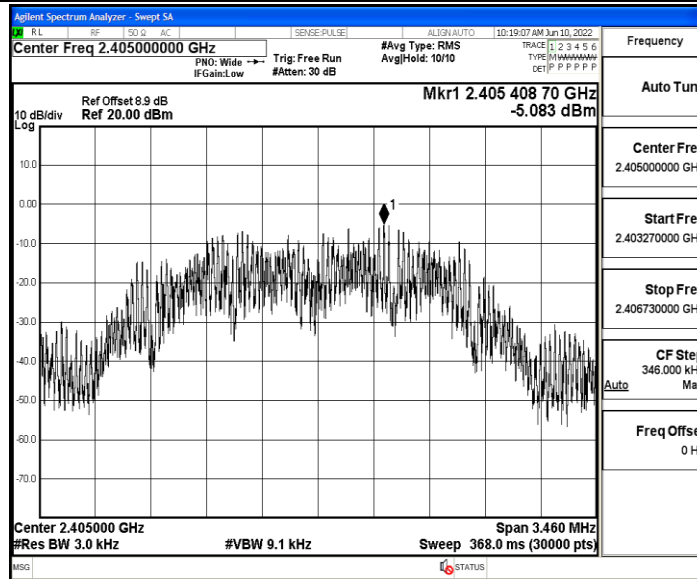
Appendix D: Maximum power spectral density

Test Result

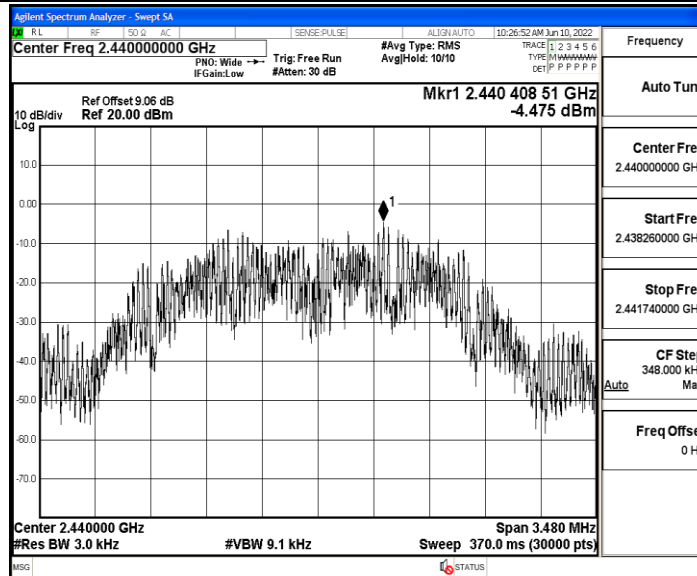
TestMode	Antenna	Freq(MHz)	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
ZIGB	Ant1	2405	-5.08	≤8.00	PASS
		2440	-4.48	≤8.00	PASS
		2480	-4.44	≤8.00	PASS

Test Graphs

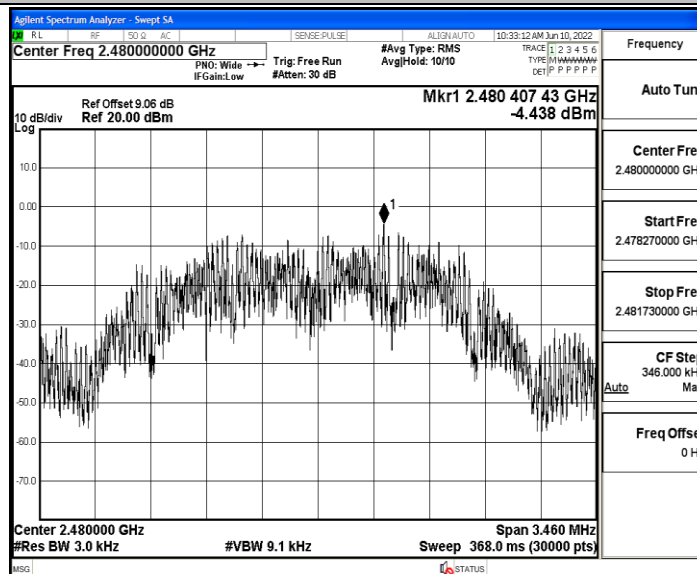
ZIGB_Ant1_2405



ZIGB_Ant1_2440



ZIGB_Ant1_2480



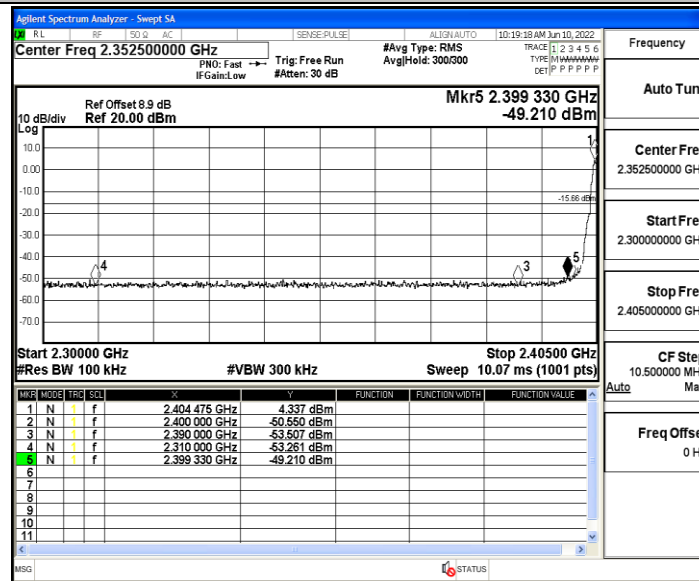
Appendix E: Band edge measurements

Test Result

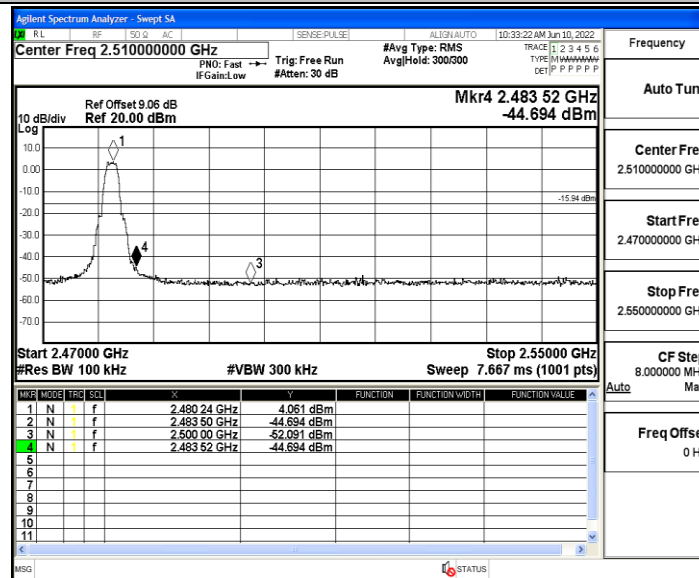
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
ZIGB	Ant1	Low	2405	4.34	-49.21	≤ -15.66	PASS
		High	2480	4.06	-44.69	≤ -15.94	PASS

Test Graphs

ZIGB_Ant1_Low_2405



ZIGB_Ant1_High_2480



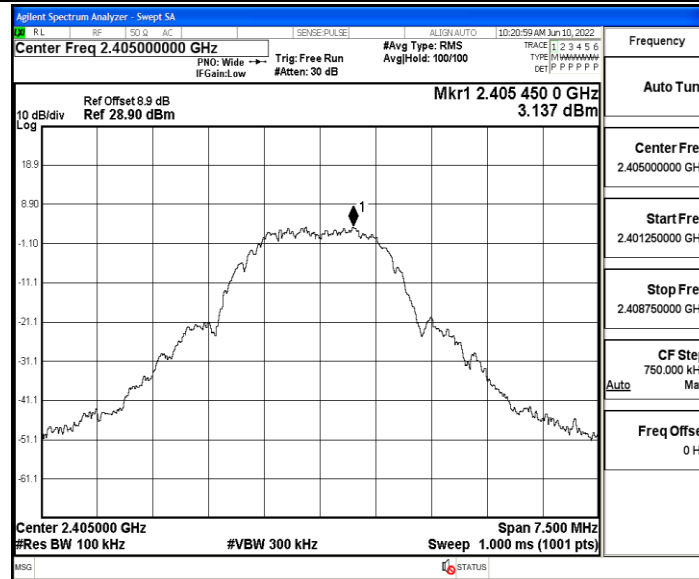
Appendix F: Conducted Spurious Emission

Test Result

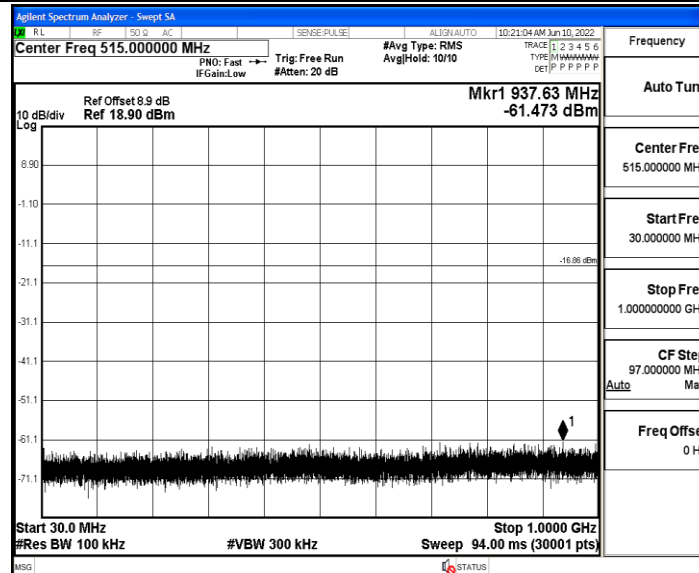
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
ZIGB	Ant1	2405	Reference	3.14	3.14	---	PASS
			30~1000	3.14	-61.47	≤-16.86	PASS
			1000~26500	3.14	-50.59	≤-16.86	PASS
		2440	Reference	3.93	3.93	---	PASS
			30~1000	3.93	-60.06	≤-16.07	PASS
			1000~26500	3.93	-51.27	≤-16.07	PASS
		2480	Reference	4.80	4.80	---	PASS
			30~1000	4.80	-60.31	≤-15.2	PASS
			1000~26500	4.80	-50.94	≤-15.2	PASS

Test Graphs

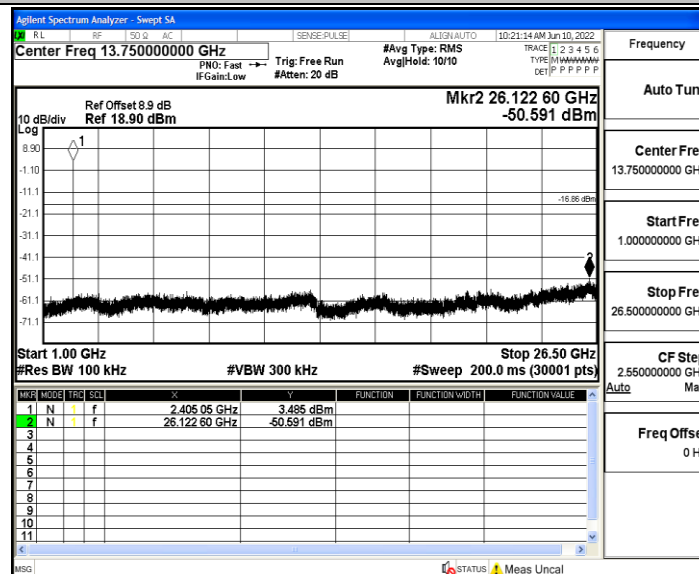
ZIGB_Ant1_2405_0~Reference



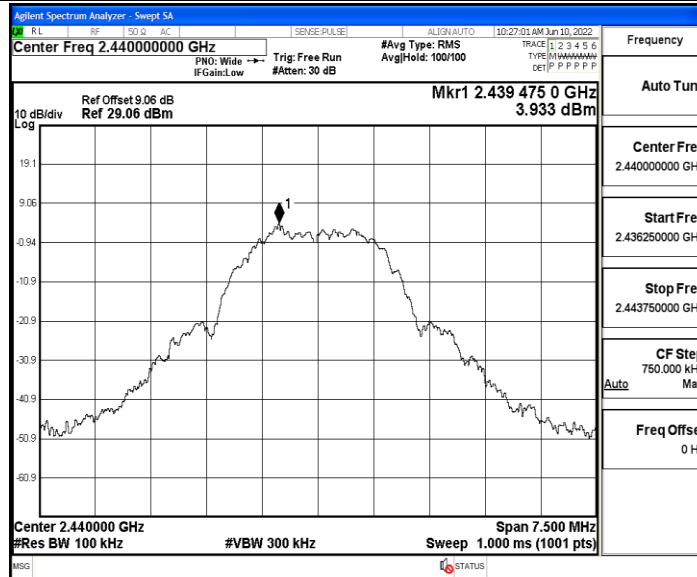
ZIGB_Ant1_2405_30~1000



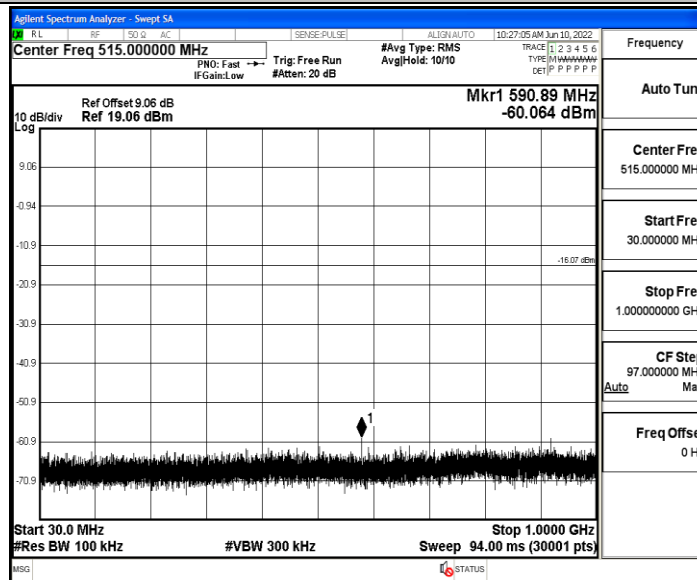
ZIGB_Ant1_2405_1000~26500



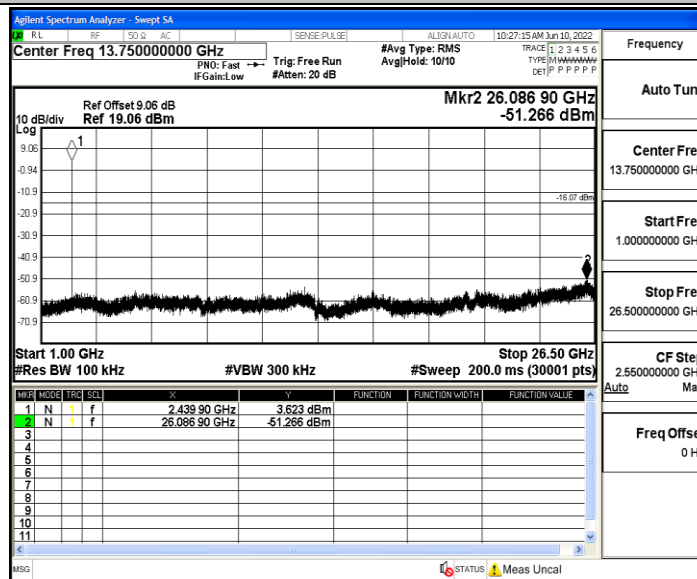
ZIGB_Ant1_2440_0~Reference



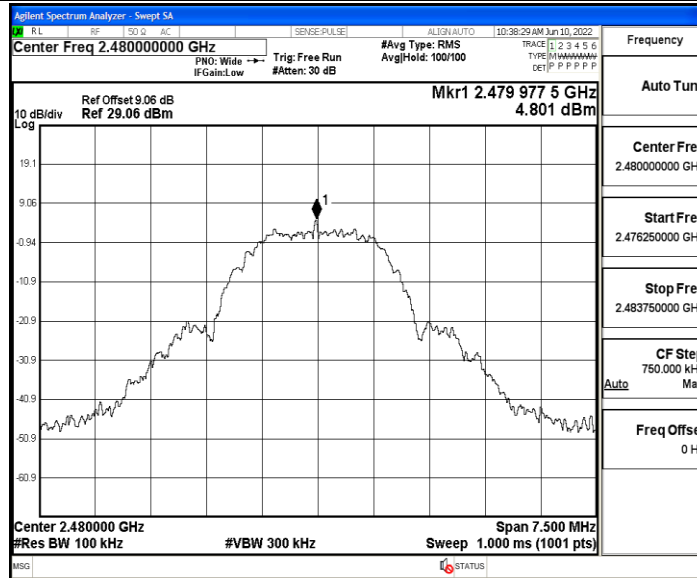
ZIGB_Ant1_2440_30~1000



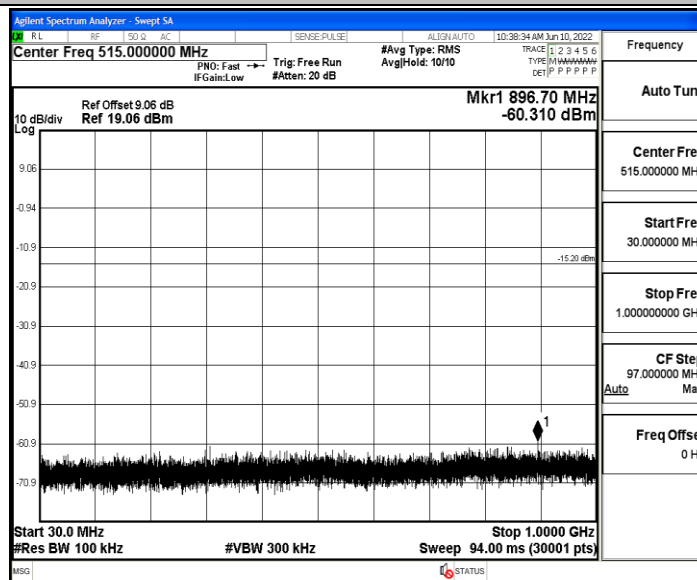
ZIGB_Ant1_2440_1000~26500



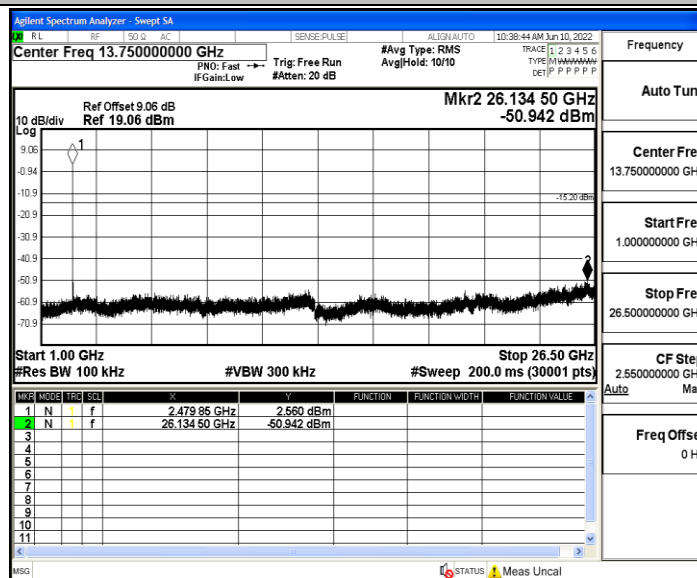
ZIGB_Ant1_2480_0~Reference



ZIGB_Ant1_2480_30~1000



ZIGB_Ant1_2480_1000~26500



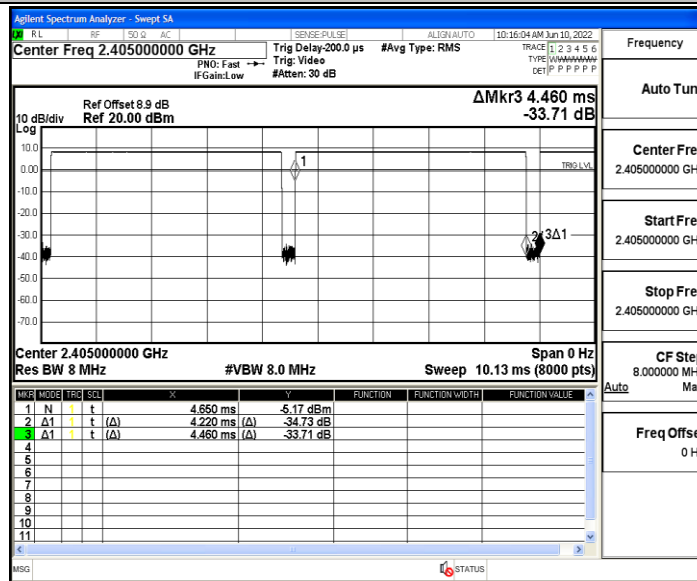
Appendix G: Duty Cycle

Test Result

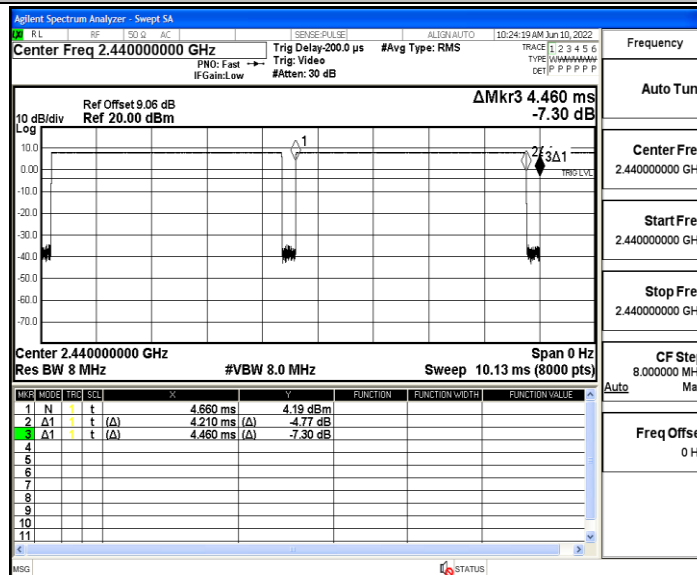
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/B [kHz]
ZIGB	Ant1	2405	4.22	4.46	94.62	0.24
		2440	4.21	4.46	94.39	0.24
		2480	4.22	4.47	94.41	0.24

Test Graphs

ZIGB_Ant1_2405



ZIGB_Ant1_2440



ZIGB_Ant1_2480

