Appendix Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: True Wireless Stereo Bluetooth Headset

Trade Mark: aigo

Test Model: TA70

FCC ID: 2ASNB-TA70

Environmental Conditions

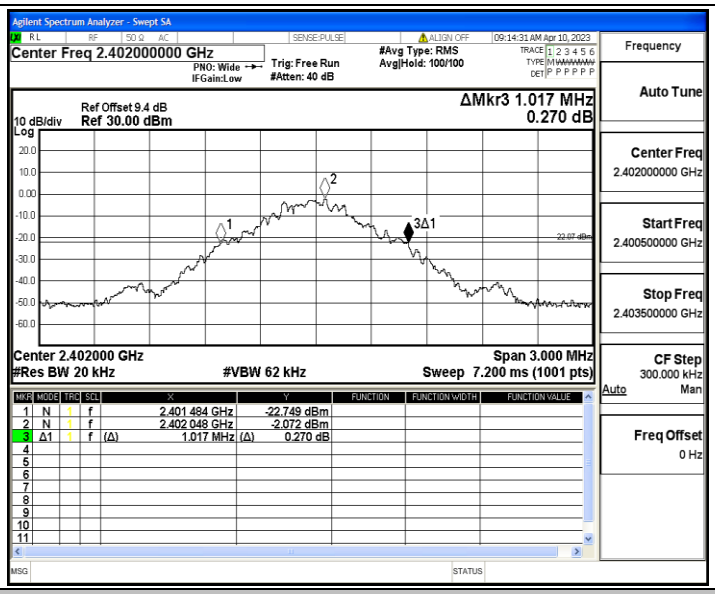
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: 20dB Emission Bandwidth

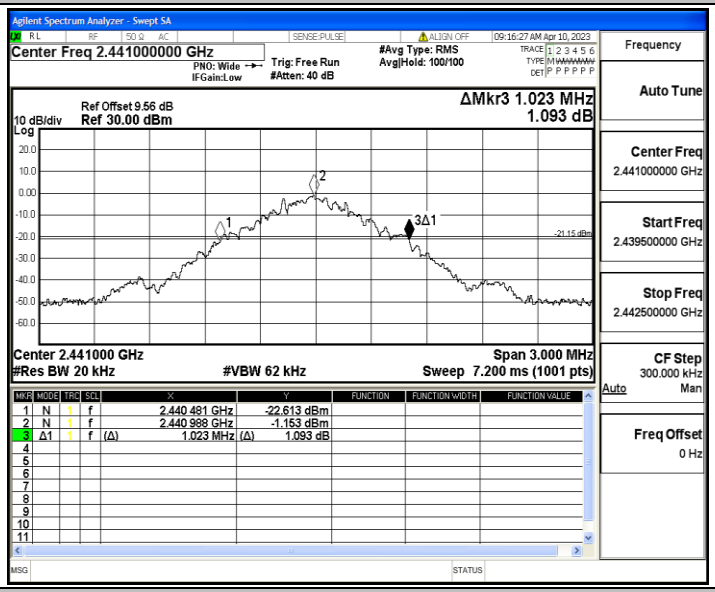
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.017	2401.484	2402.501	---	---
		2441	1.023	2440.481	2441.504	---	---
		2480	1.023	2479.481	2480.504	---	---
2DH5	Ant1	2402	1.311	2401.337	2402.648	---	---
		2441	1.275	2440.361	2441.636	---	---
		2480	1.347	2479.322	2480.669	---	---

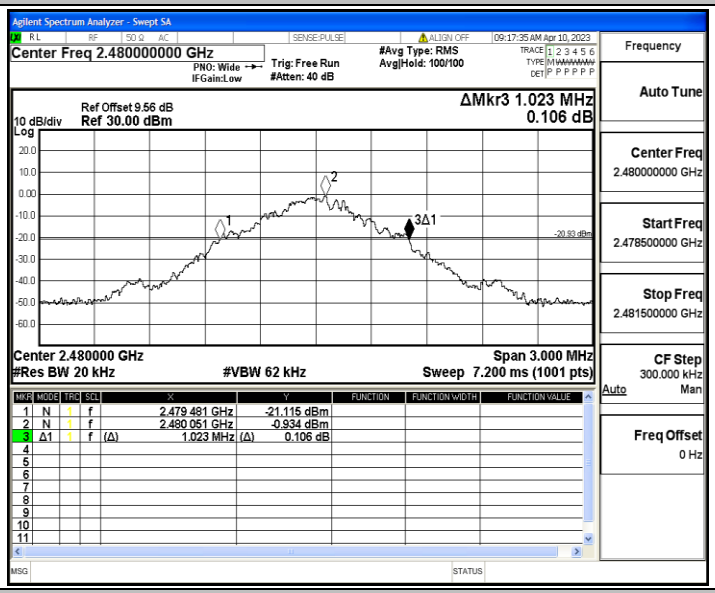
Test Graphs



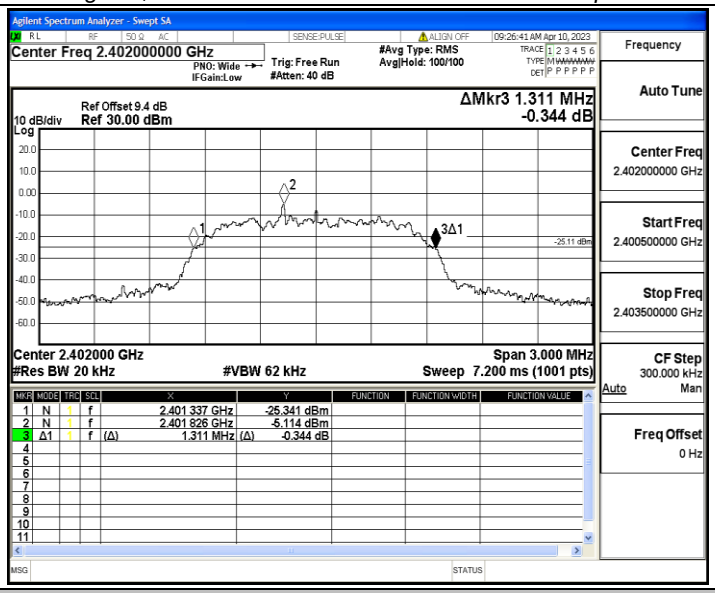
DH5_Ant1_2402



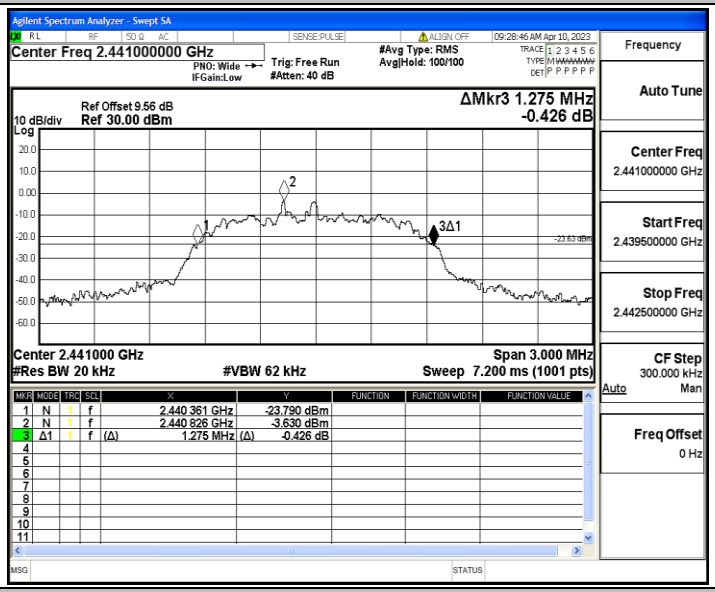
DH5_Ant1_2441



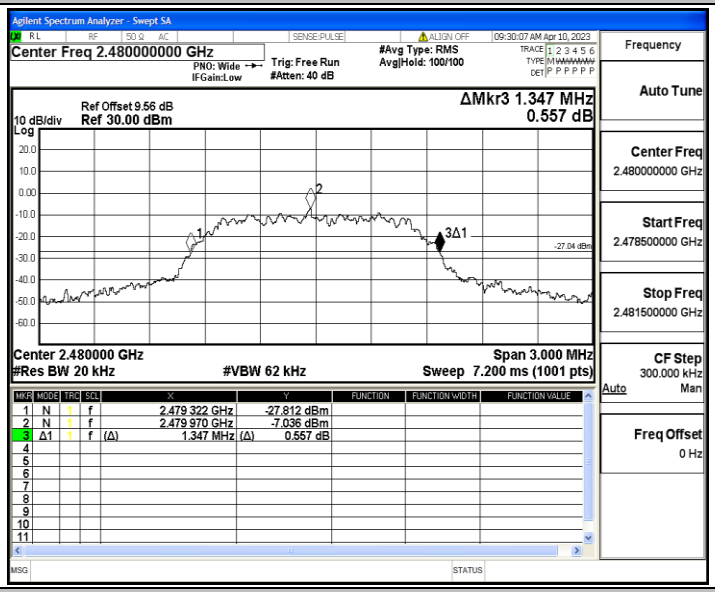
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



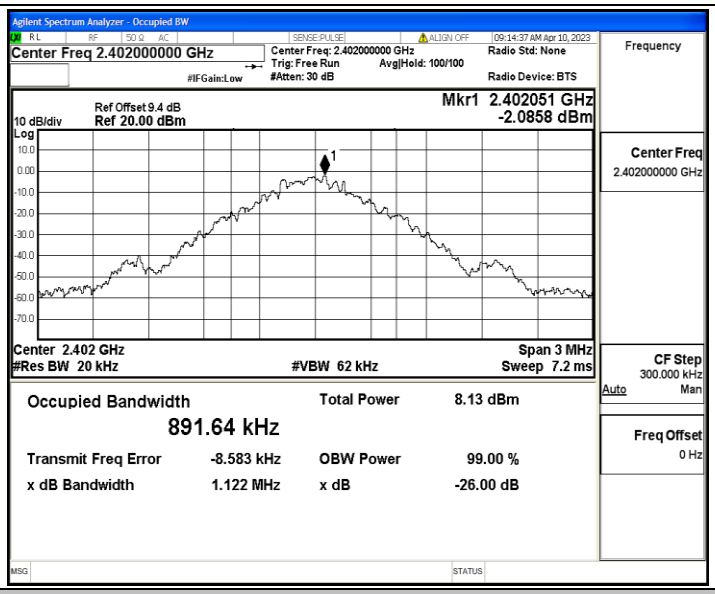
2DH5_Ant1_2480

Appendix B: Occupied Channel Bandwidth

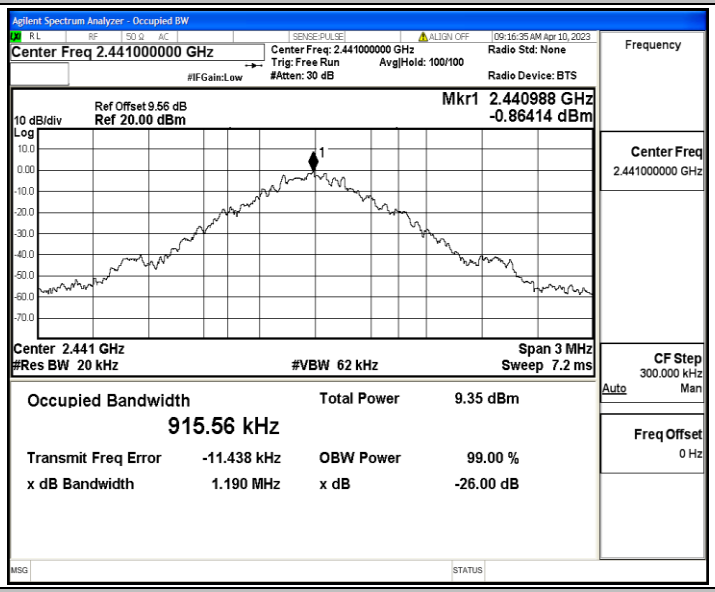
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89164	2401.5456	2402.4372	---	---
		2441	0.91556	2440.5308	2441.4463	---	---
		2480	0.94215	2479.5121	2480.4543	---	---
2DH5	Ant1	2402	1.1972	2401.3959	2402.5931	---	---
		2441	1.1895	2440.3962	2441.5857	---	---
		2480	1.1976	2479.3964	2480.5940	---	---

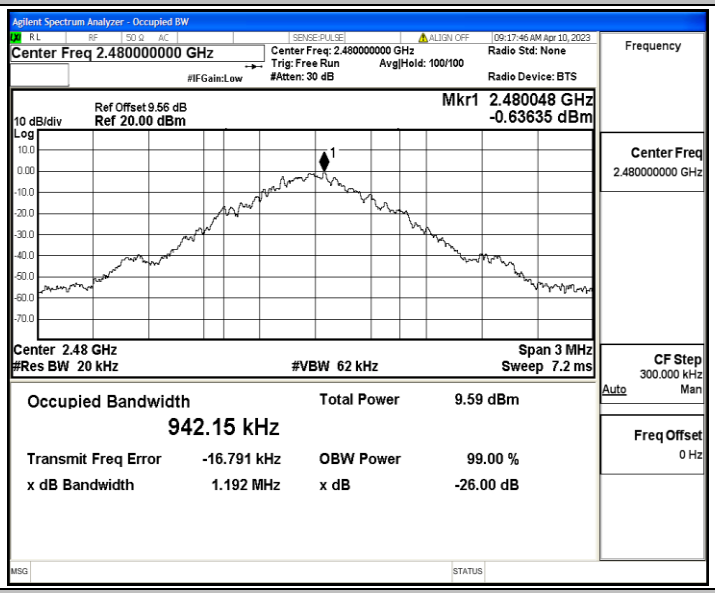
Test Graphs



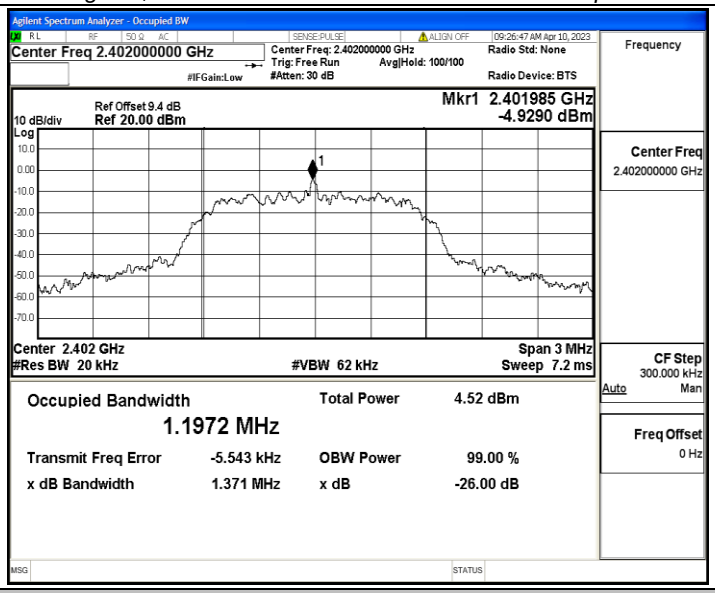
DH5_Ant1_2402



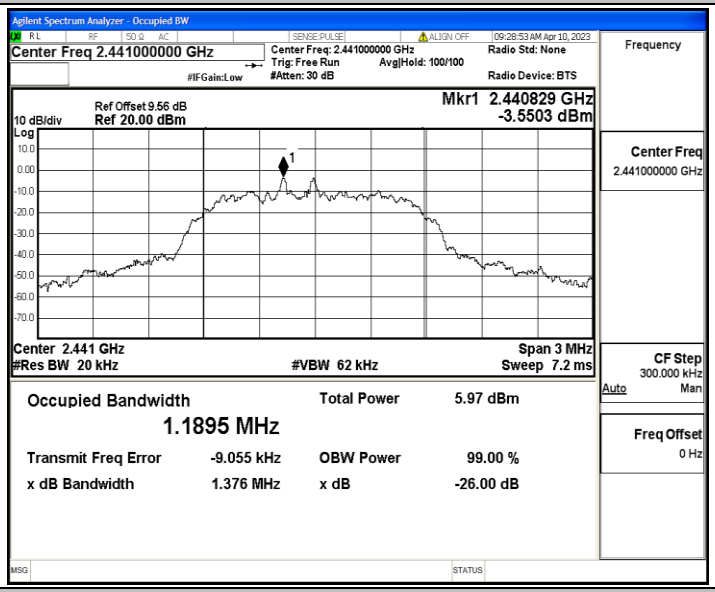
DH5_Ant1_2441



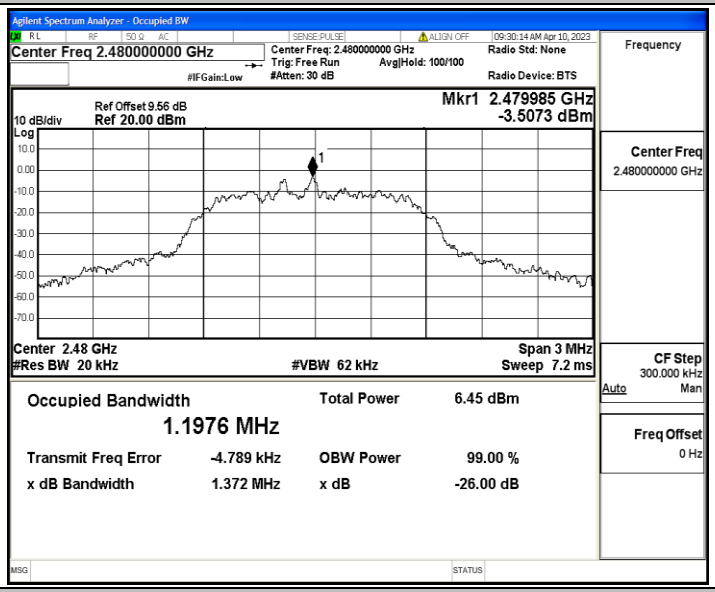
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



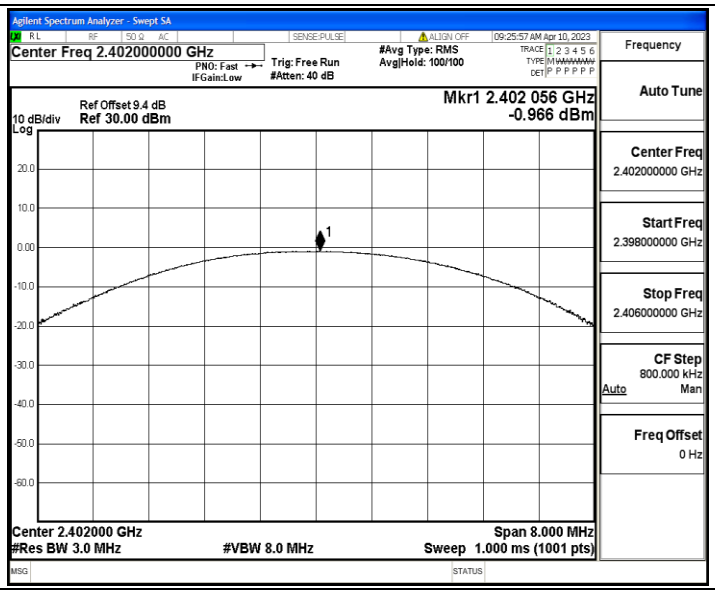
2DH5_Ant1_2480

Appendix C: Maximum Peak conducted output power

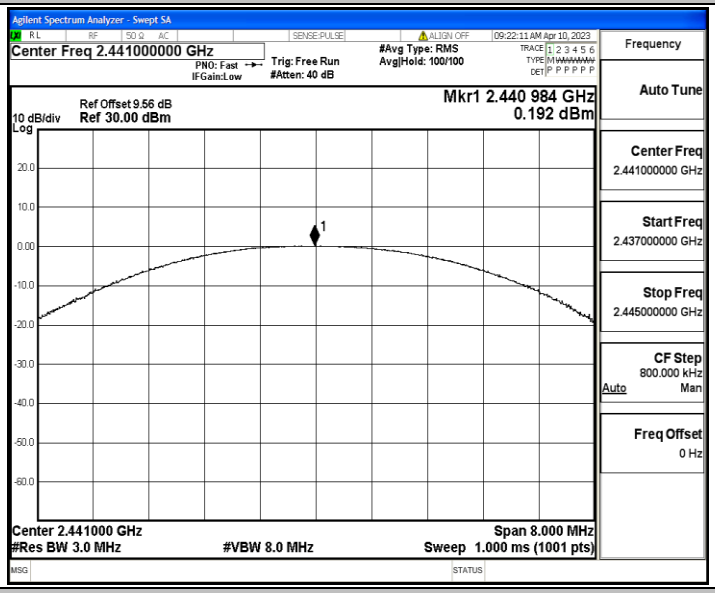
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.97	≤30	PASS
		2441	0.19	≤30	PASS
		2480	0.43	≤30	PASS
2DH5	Ant1	2402	-0.28	≤20.97	PASS
		2441	0.95	≤20.97	PASS
		2480	1.18	≤20.97	PASS

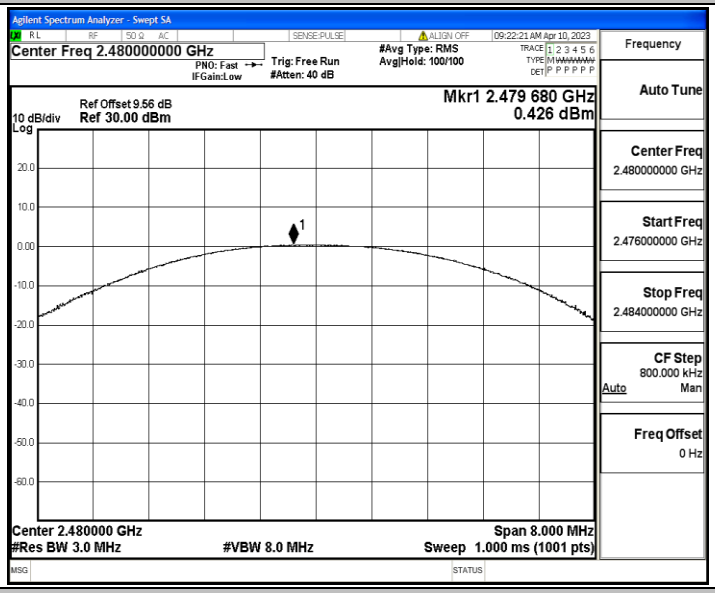
Test Graphs



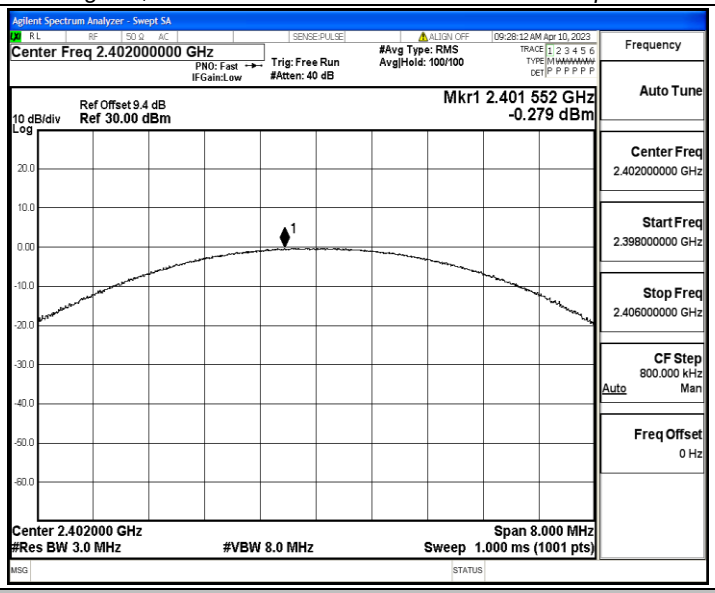
DH5_Ant1_2402



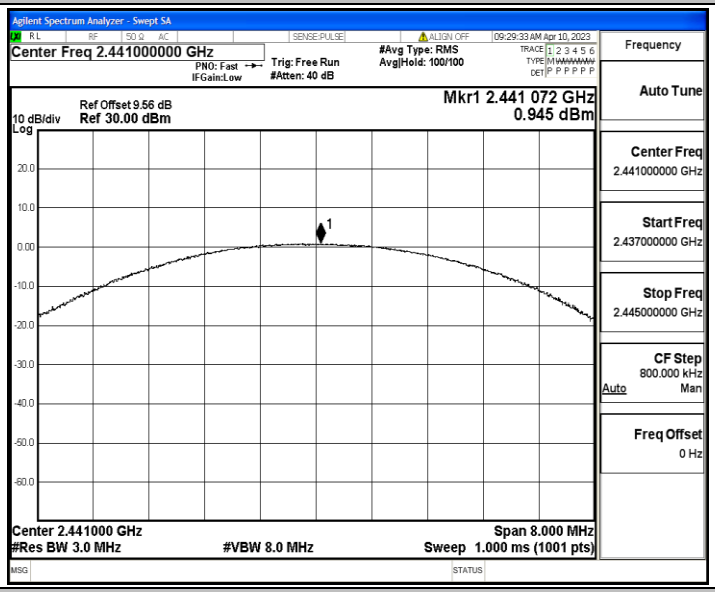
DH5_Ant1_2441



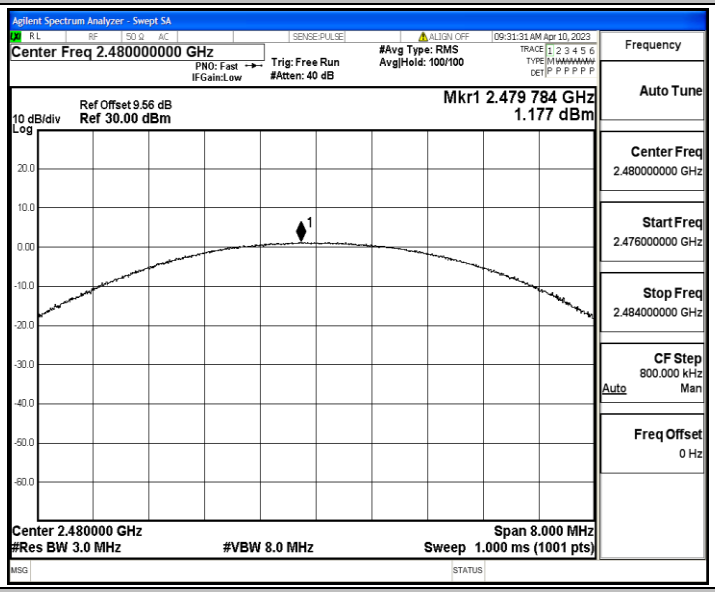
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



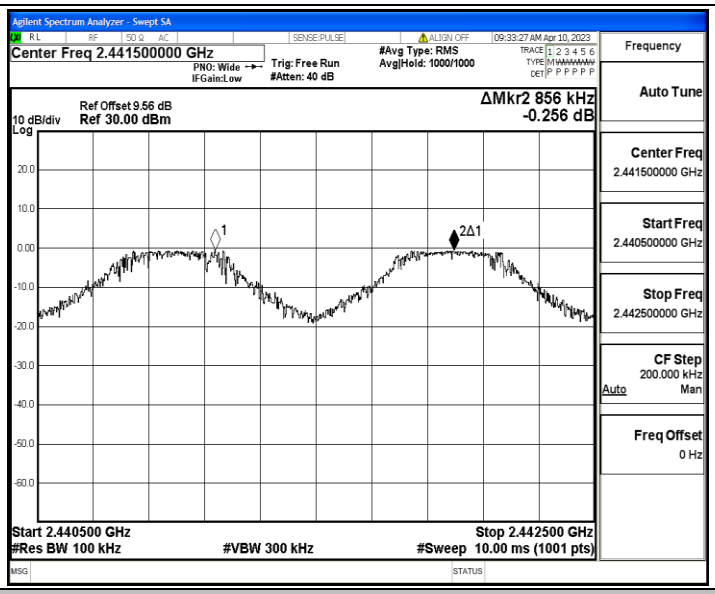
2DH5_Ant1_2480

Appendix D: Carrier frequency separation

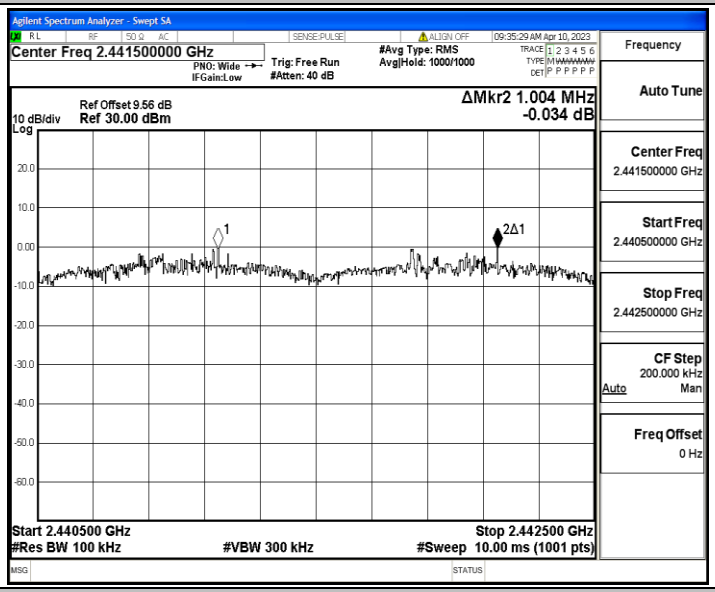
Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.856	≥0.682	PASS
2DH5	Ant1	Hop	1.004	≥0.898	PASS

Test Graphs



DH5_Ant1_Hop



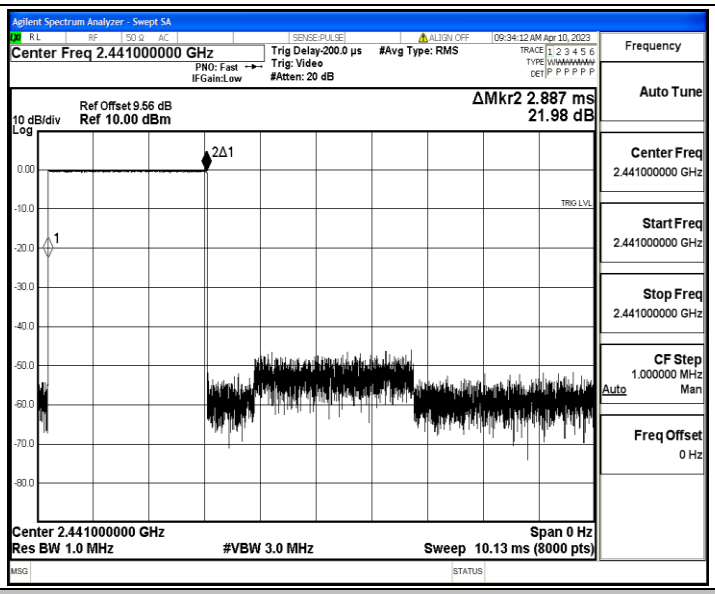
2DH5_Ant1_Hop

Appendix E: Time of occupancy

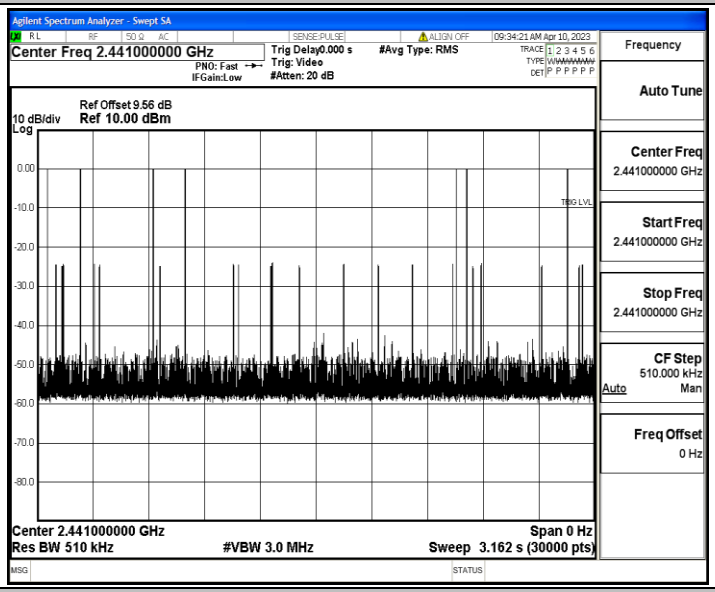
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.887	80	0.231	≤0.4	PASS
2DH5	Ant1	Hop	2.891	110	0.318	≤0.4	PASS

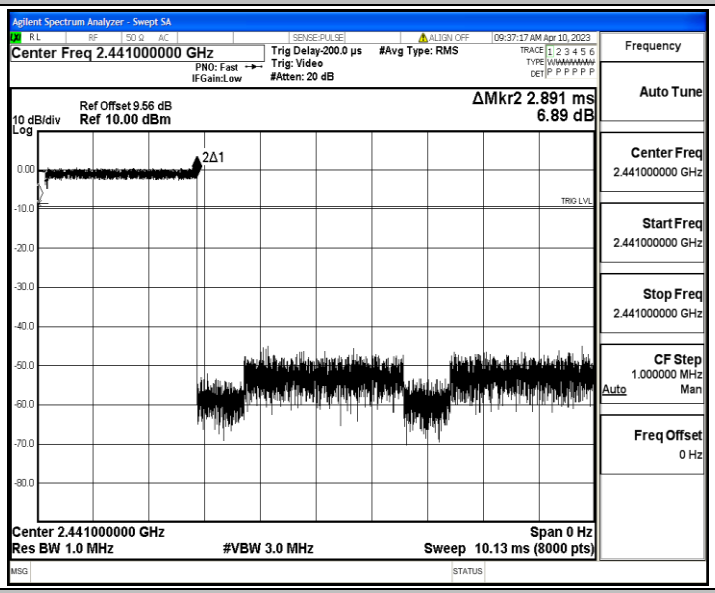
Test Graphs



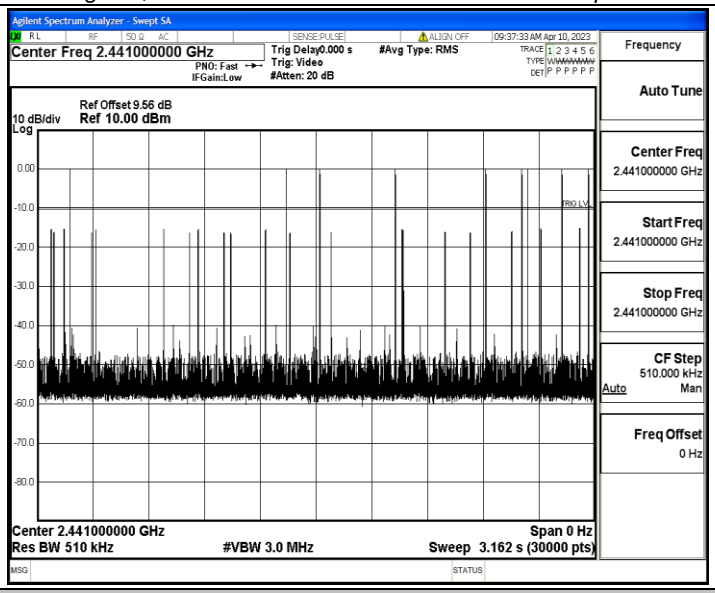
DH5_Ant1_Hop



DH5_Ant1_Hop



2DH5_Ant1_Hop



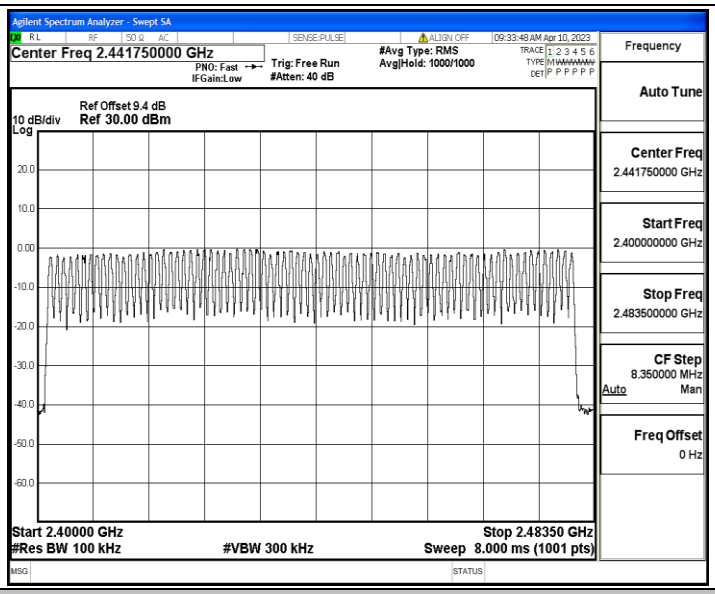
2DH5_Ant1_Hop

Appendix F: Number of hopping channels

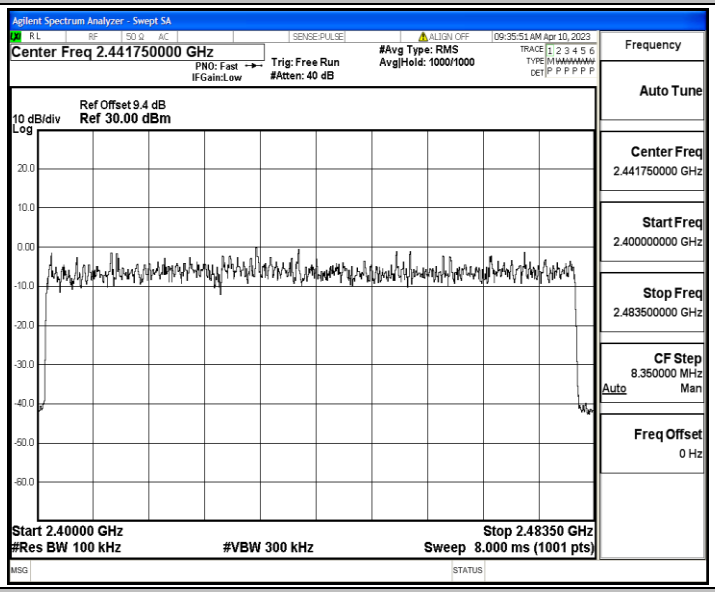
Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



DH5_Ant1_Hop



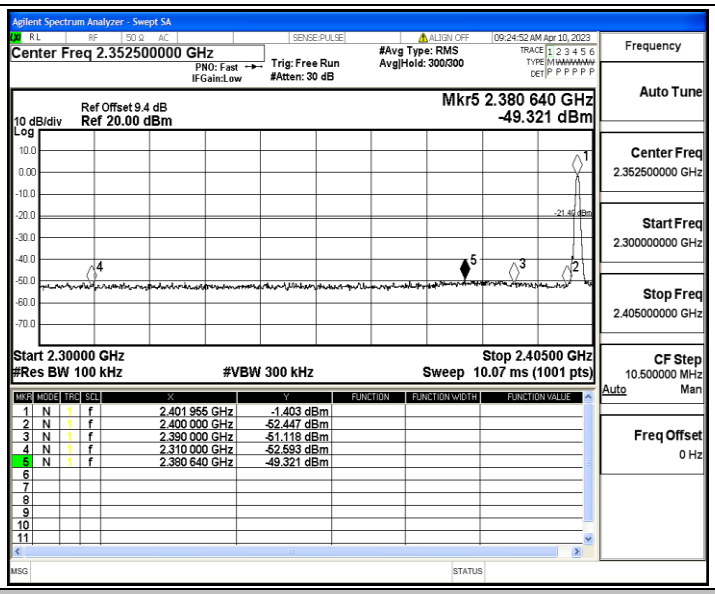
2DH5_Ant1_Hop

Appendix G: Band edge measurements

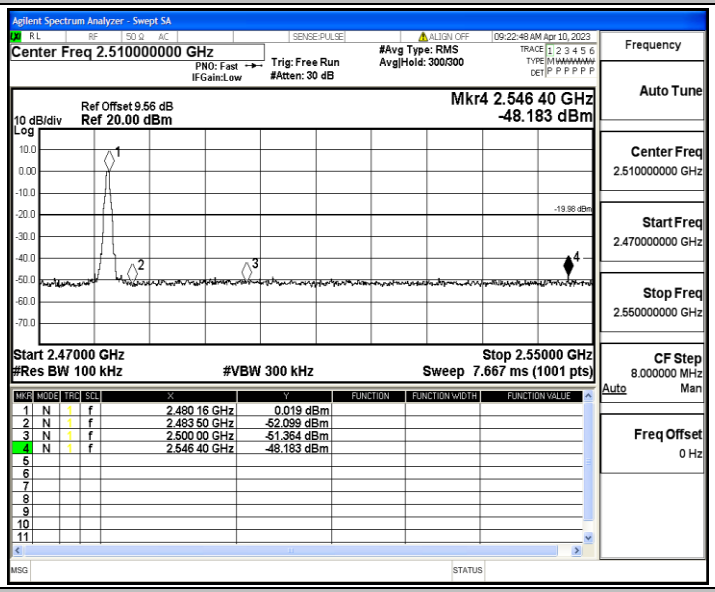
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.40	-49.32	≤-21.4	PASS
		High	2480	0.02	-48.18	≤-19.98	PASS
		Low	Hop_2402	-3.05	-49.86	≤-23.05	PASS
		High	Hop_2480	0.03	-49.13	≤-19.97	PASS
2DH5	Ant1	Low	2402	-1.39	-48.62	≤-21.39	PASS
		High	2480	0.11	-48.61	≤-19.89	PASS
		Low	Hop_2402	-6.99	-50.05	≤-26.99	PASS
		High	Hop_2480	-3.08	-49.47	≤-23.08	PASS

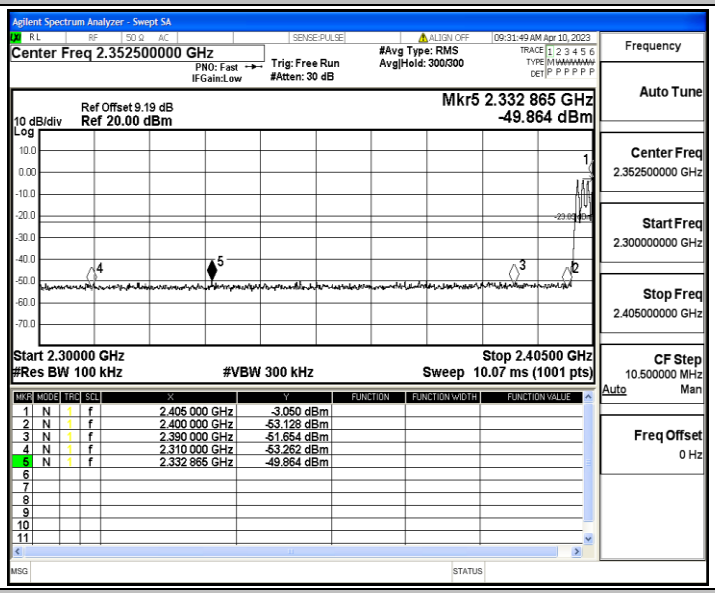
Test Graphs



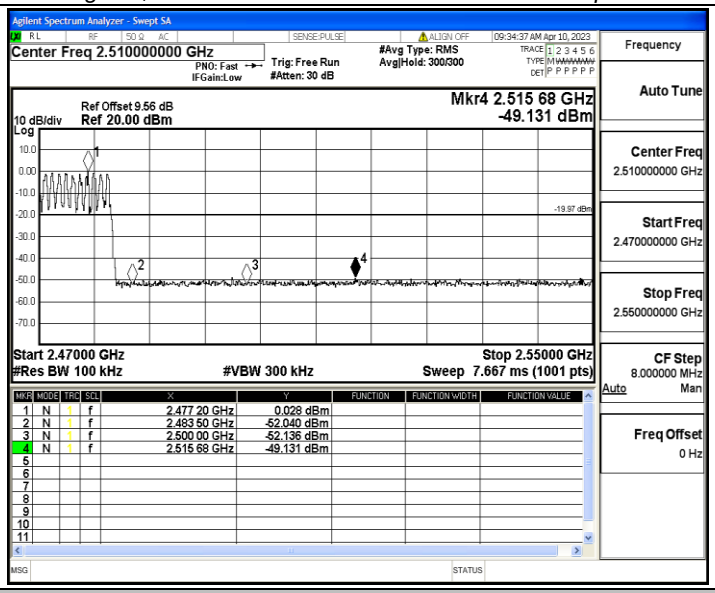
DH5_Ant1_Low_2402



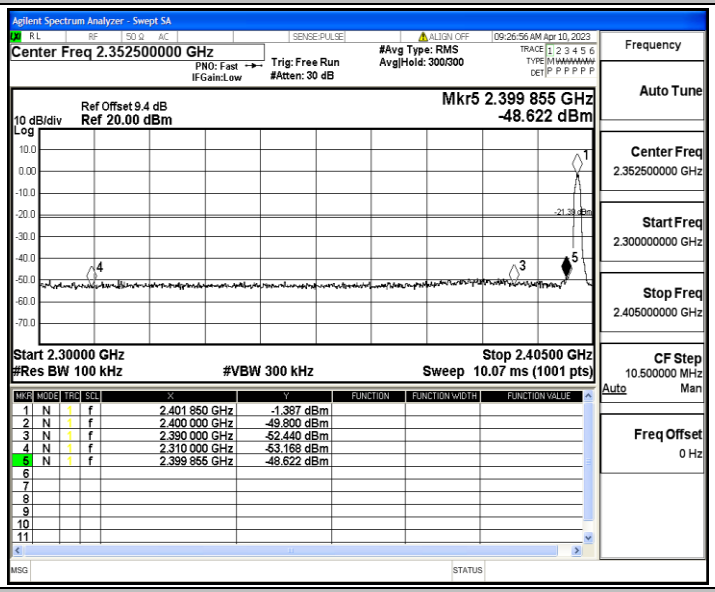
DH5_Ant1_High_2480



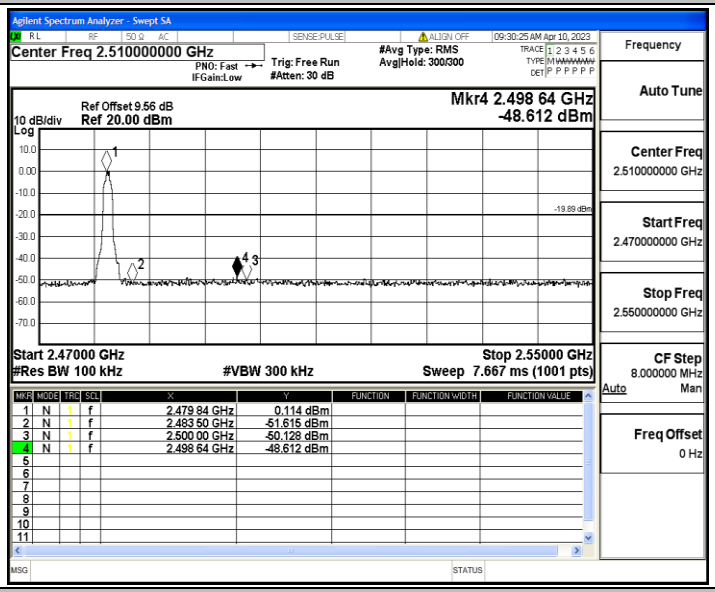
DH5_Ant1_Low_Hop_2402



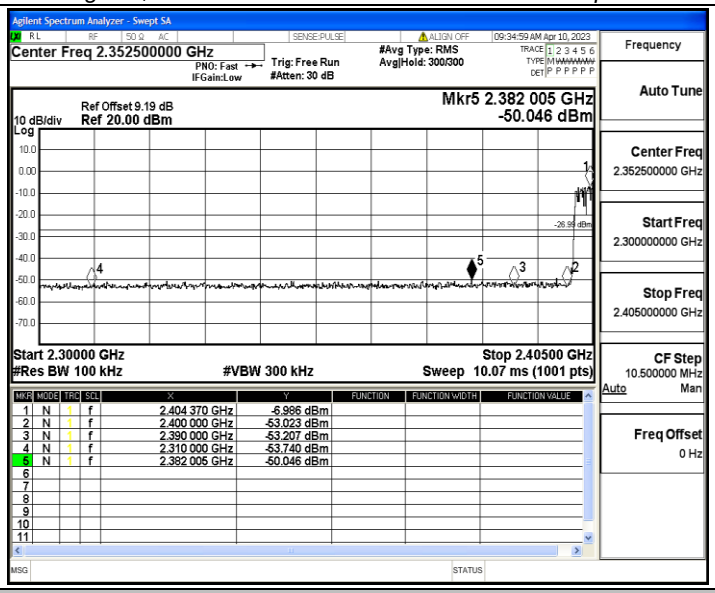
DH5_Ant1_High_Hop_2480



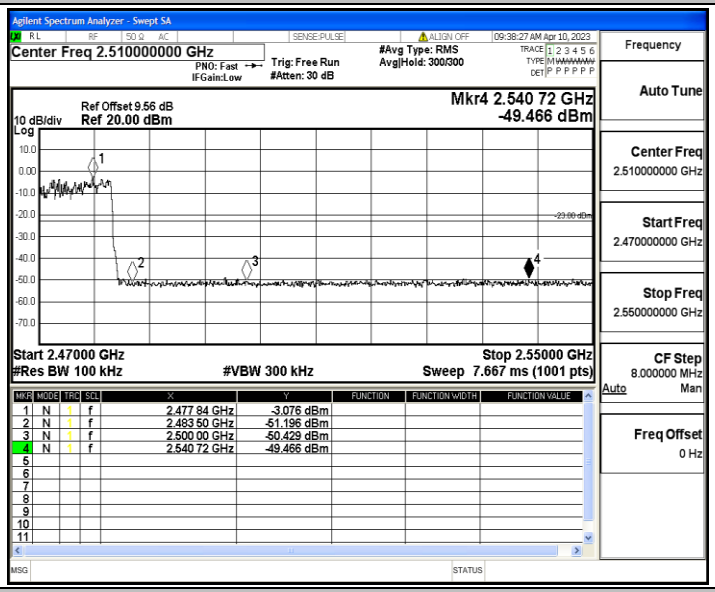
2DH5_Ant1_Low_2402



2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



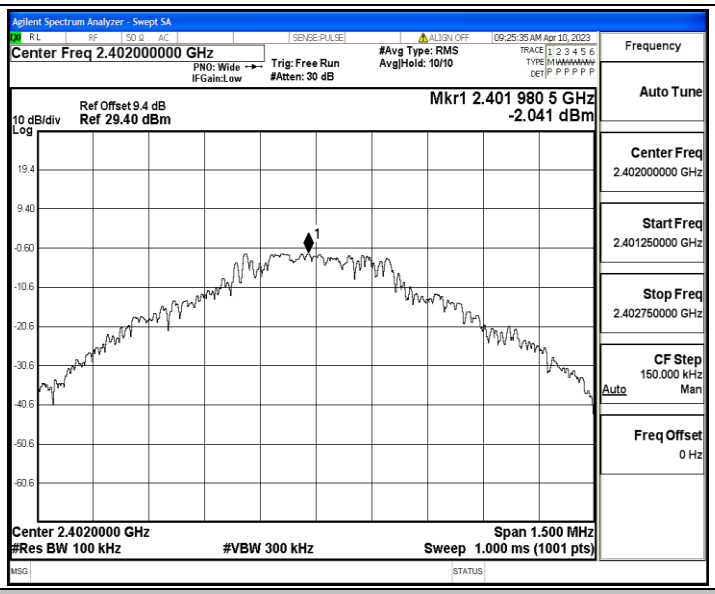
2DH5_Ant1_High_Hop_2480

Appendix H: Conducted Spurious Emission

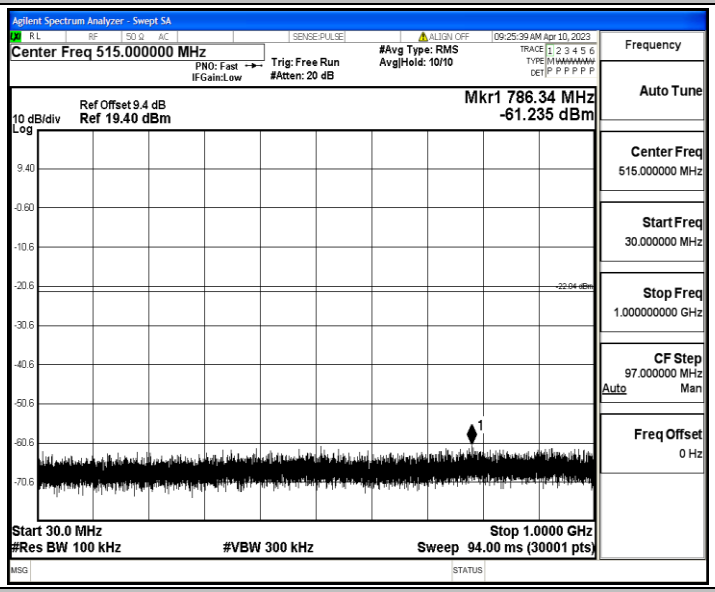
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-2.04	-2.04	---	PASS
			30~1000	-2.04	-61.24	≤-22.04	PASS
			1000~26500	-2.04	-51.11	≤-22.04	PASS
		2441	Reference	-0.90	-0.90	---	PASS
			30~1000	-0.90	-61.09	≤-20.9	PASS
			1000~26500	-0.90	-51.21	≤-20.9	PASS
		2480	Reference	-0.29	-0.29	---	PASS
			30~1000	-0.29	-60.08	≤-20.29	PASS
			1000~26500	-0.29	-50.33	≤-20.29	PASS
2DH5	Ant1	2402	Reference	-4.63	-4.63	---	PASS
			30~1000	-4.63	-60.86	≤-24.63	PASS
			1000~26500	-4.63	-50.92	≤-24.63	PASS
		2441	Reference	-0.44	-0.44	---	PASS
			30~1000	-0.44	-60.53	≤-20.44	PASS
			1000~26500	-0.44	-51.56	≤-20.44	PASS
		2480	Reference	-3.34	-3.34	---	PASS
			30~1000	-3.34	-61.18	≤-23.34	PASS
			1000~26500	-3.34	-50.51	≤-23.34	PASS

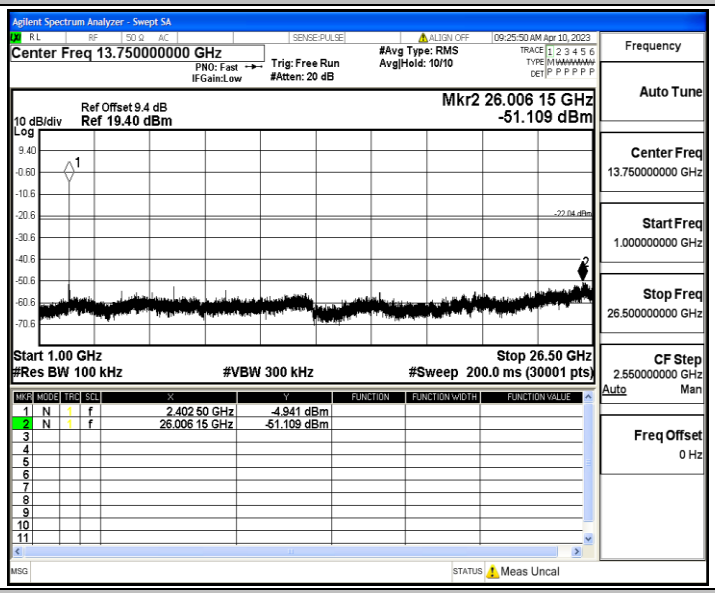
Test Graphs



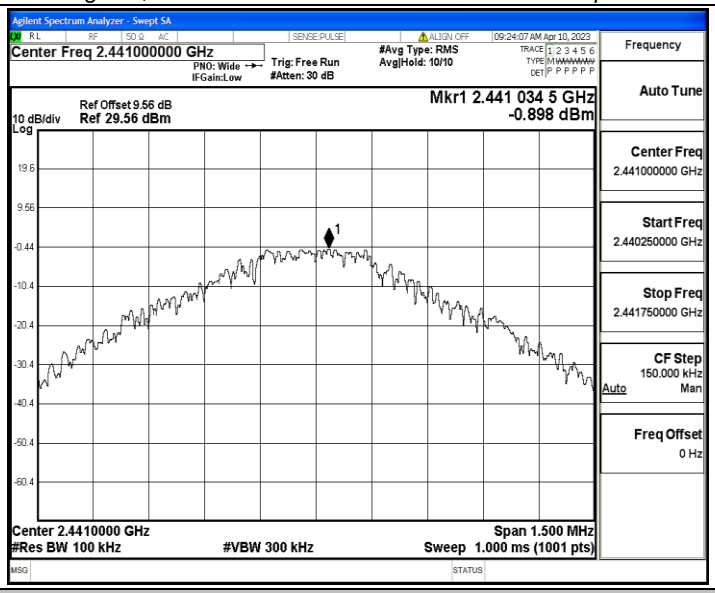
DH5_Ant1_2402_0~Reference



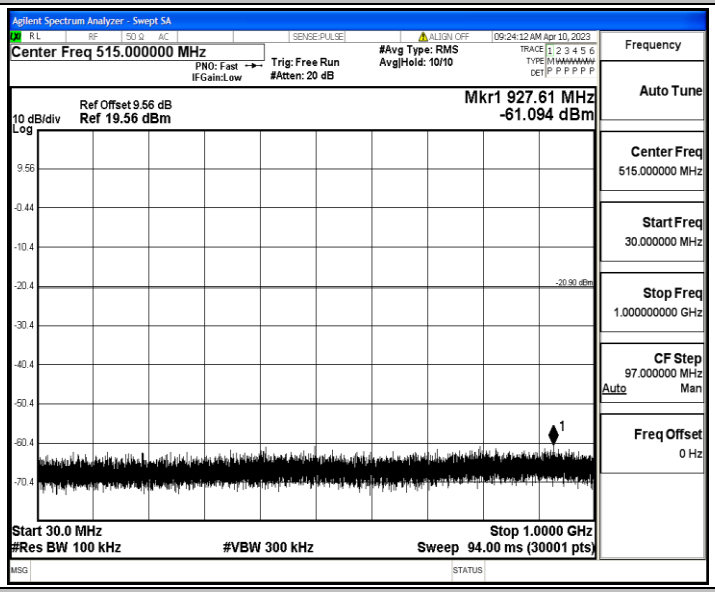
DH5_Ant1_2402_30~1000



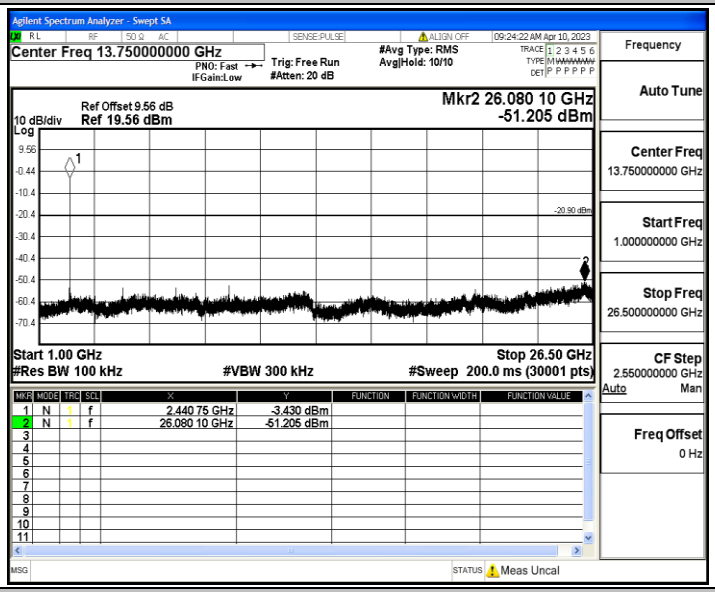
DH5_Ant1_2402_1000~26500



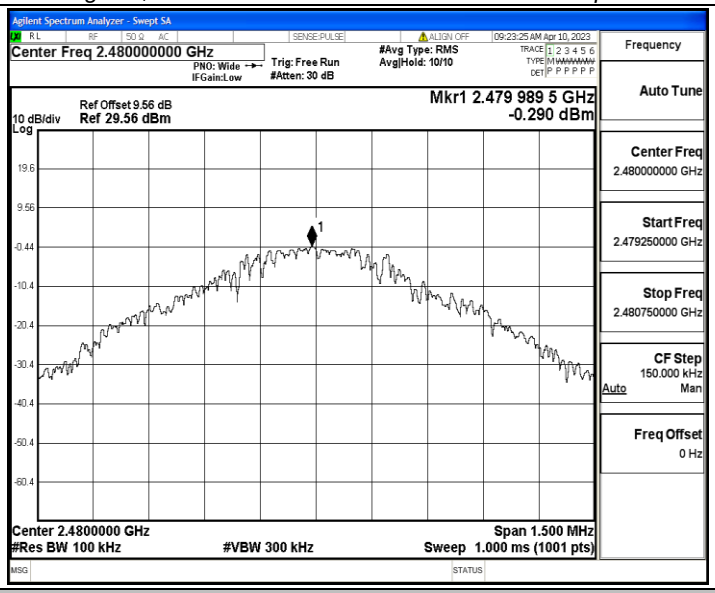
DH5_Ant1_2441_0~Reference



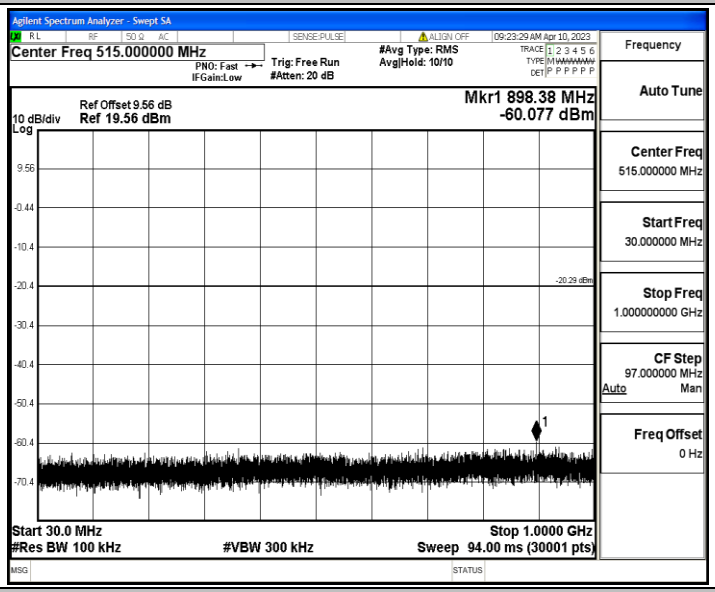
DH5_Ant1_2441_30~1000



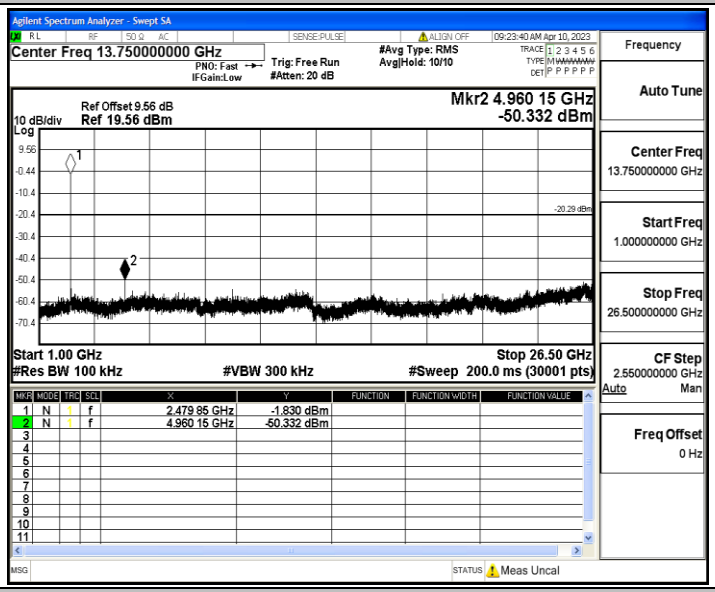
DH5_Ant1_2441_1000~26500



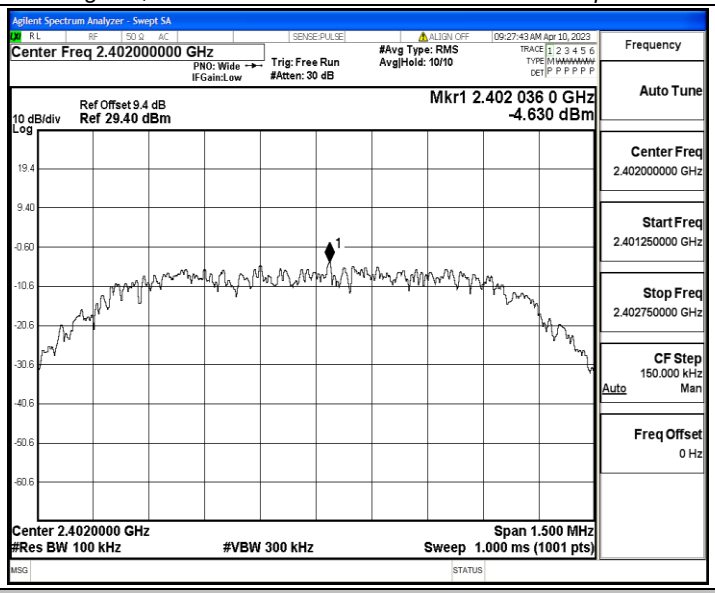
DH5_Ant1_2480_0~Reference



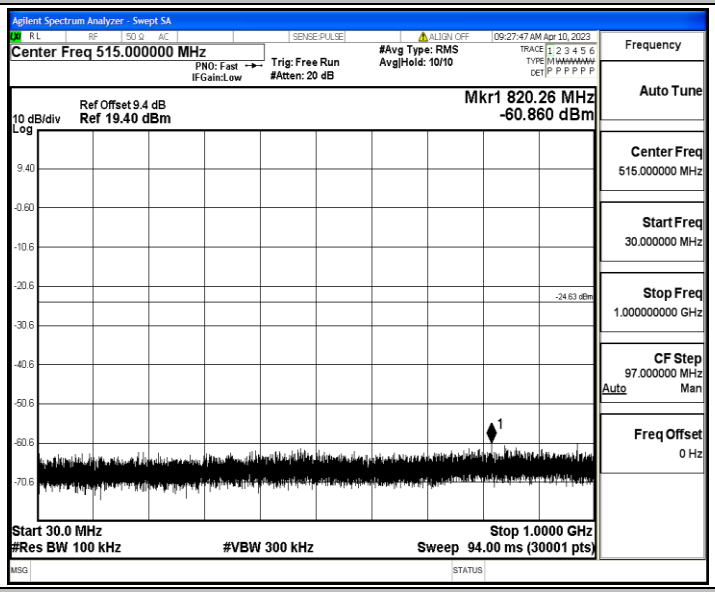
DH5_Ant1_2480_30~1000



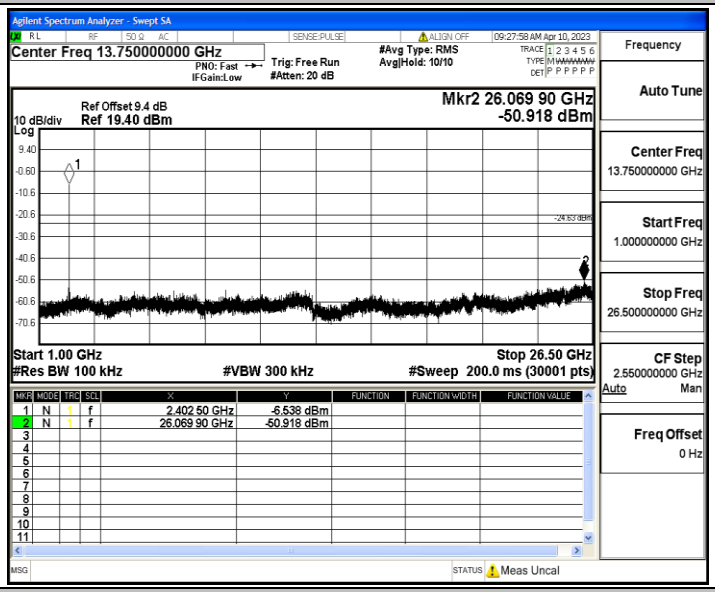
DH5_Ant1_2480_1000~26500



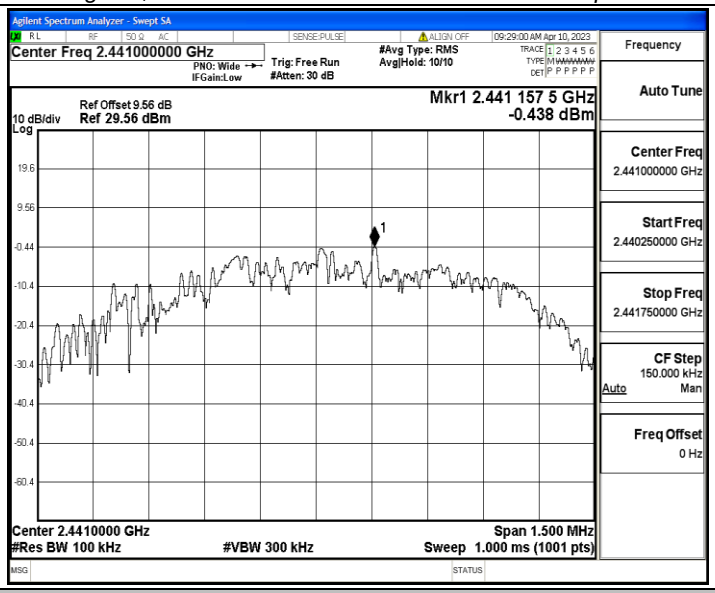
2DH5_Ant1_2402_0~Reference



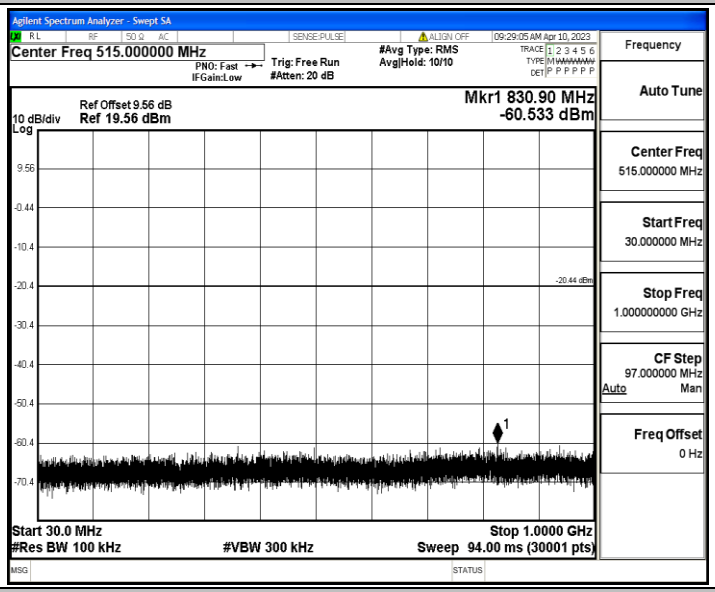
2DH5_Ant1_2402_30~1000



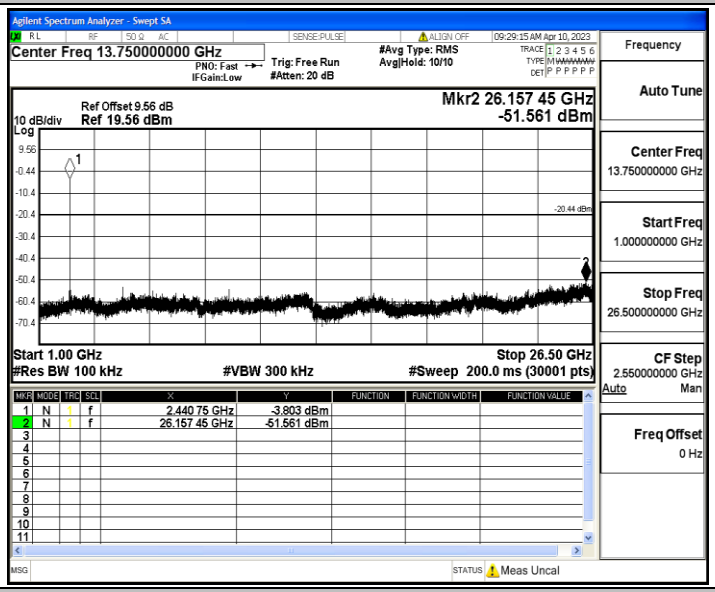
2DH5_Ant1_2402_1000~26500



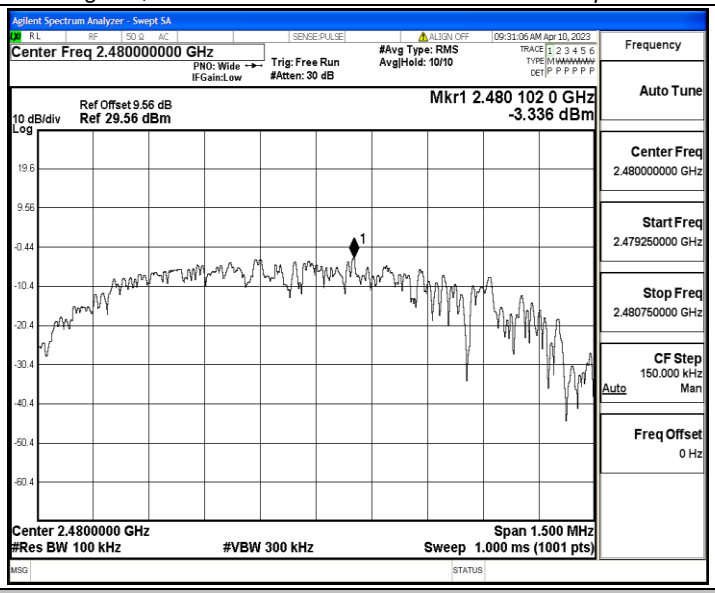
2DH5_Ant1_2441_0~Reference



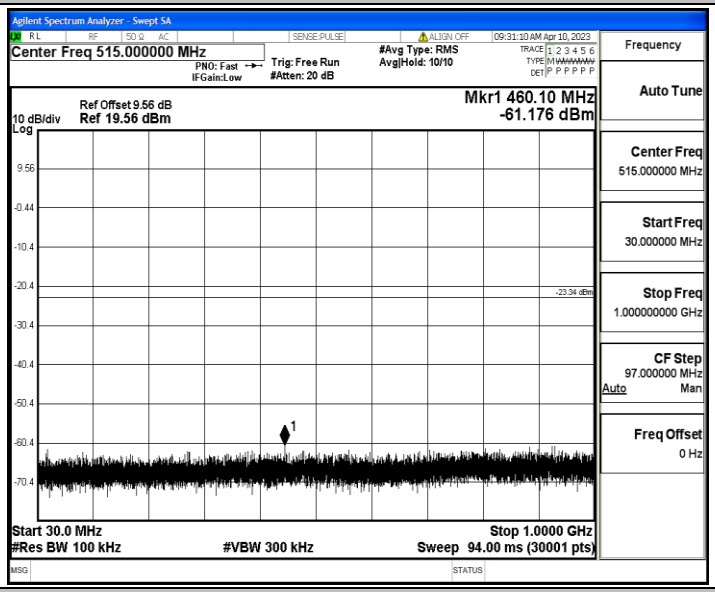
2DH5_Ant1_2441_30~1000



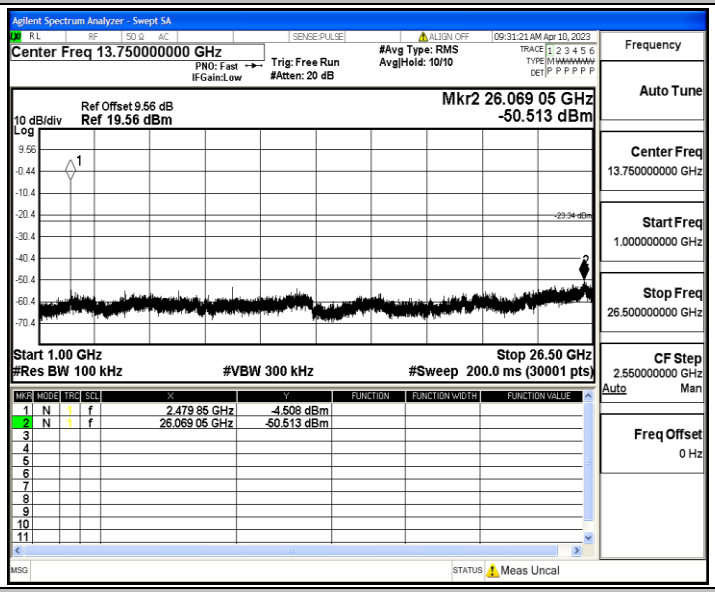
2DH5_Ant1_2441_1000~26500



2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



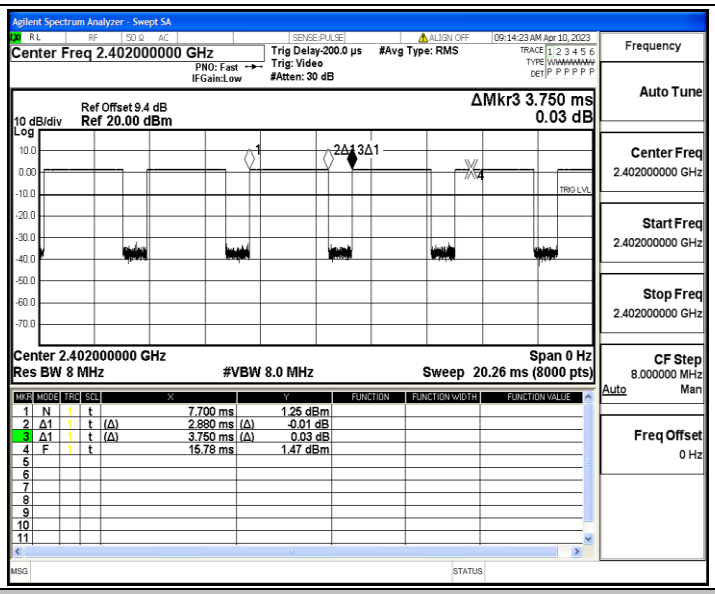
2DH5_Ant1_2480_1000~26500

Appendix I: Duty Cycle

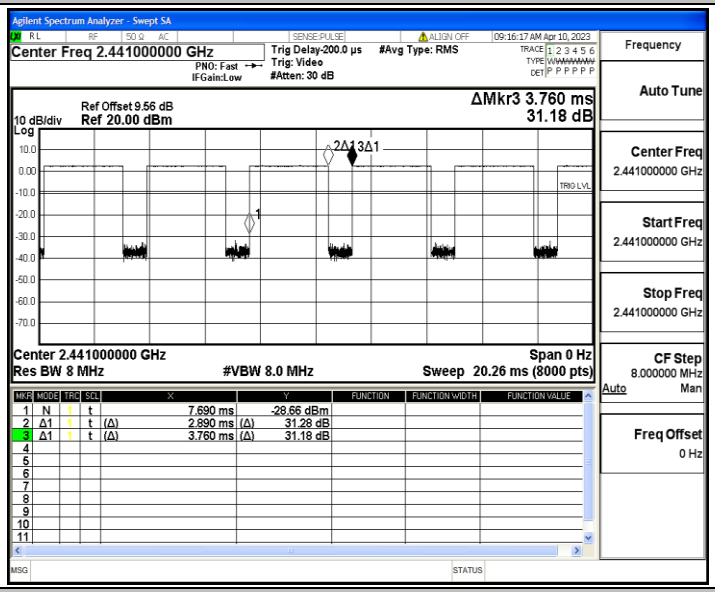
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
DH5	Ant1	2402	2.88	3.75	76.80	0.35
		2441	2.89	3.76	76.86	0.35
		2480	2.89	3.75	77.07	0.35
2DH5	Ant1	2402	2.89	3.75	77.07	0.35
		2441	2.89	3.75	77.07	0.35
		2480	2.89	3.75	77.07	0.35

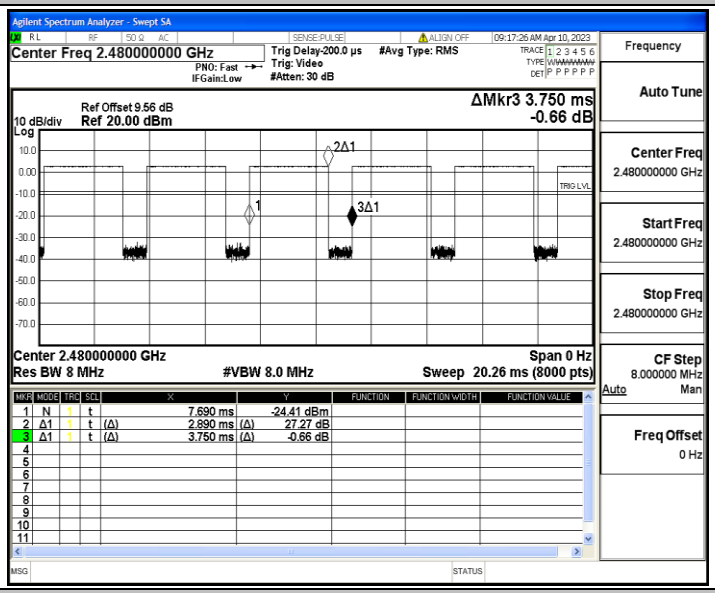
Test Graphs



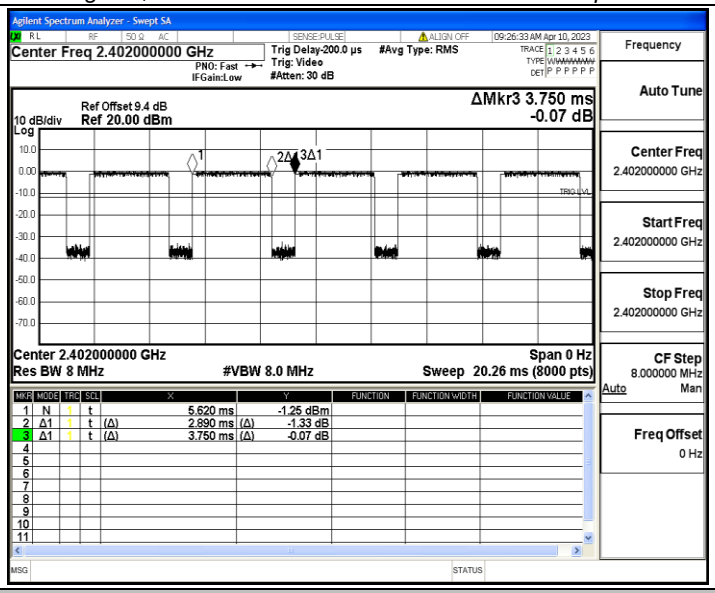
DH5_Ant1_2402



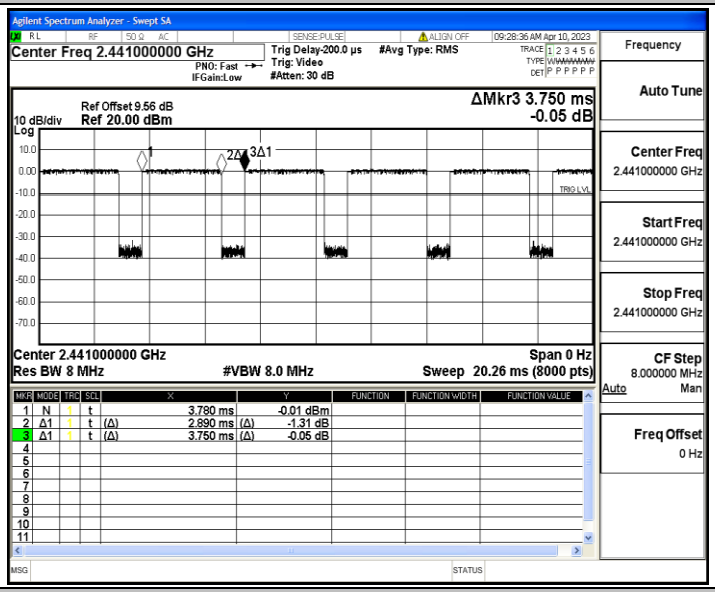
DH5_Ant1_2441



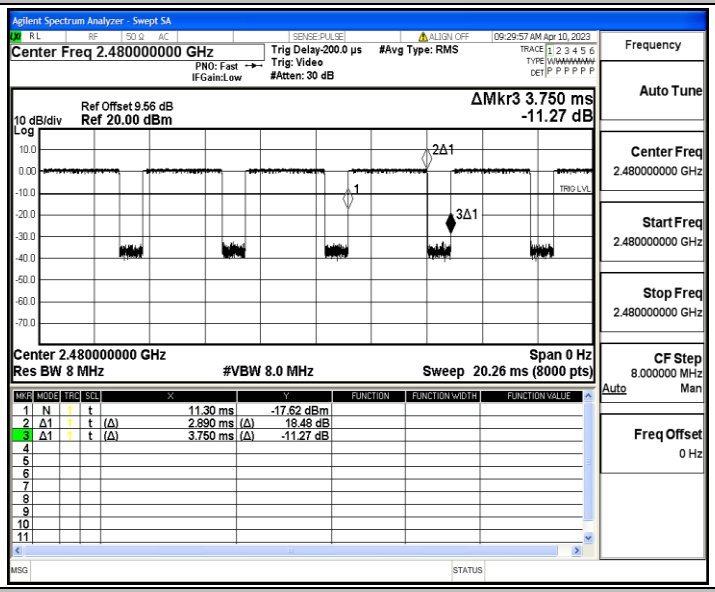
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

Appendix J: Emissions in Restricted Bands

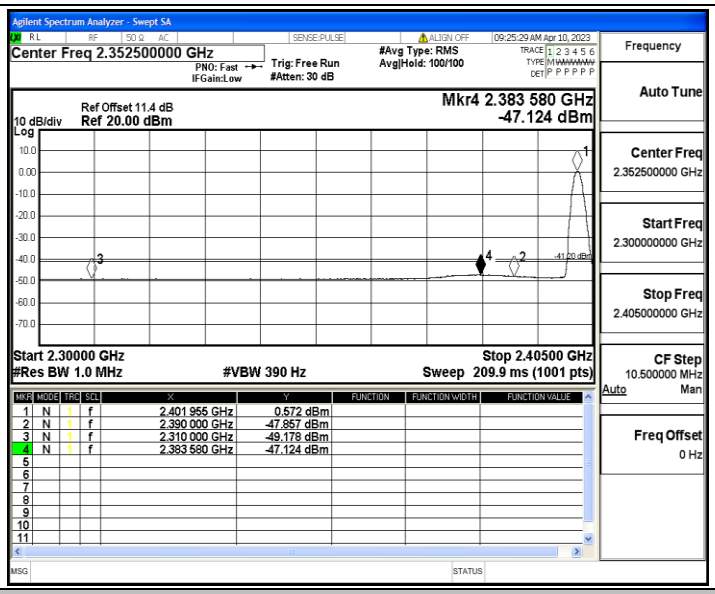
Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.18	≤-41.20	PASS
				AV	2383.580	-47.12	≤-41.20	PASS
				AV	2390.000	-47.86	≤-41.20	PASS
				Peak	2310.000	-41.34	≤-21.20	PASS
				Peak	2381.585	-37.49	≤-21.20	PASS
				Peak	2390.000	-41.53	≤-21.20	PASS
		High	2480	AV	2483.500	-47.67	≤-41.20	PASS
				AV	2499.840	-47.07	≤-41.20	PASS
				AV	2500.000	-47.13	≤-41.20	PASS
				Peak	2483.500	-40.28	≤-21.20	PASS
				Peak	2497.840	-37.29	≤-21.20	PASS
				Peak	2500.000	-40.04	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.22	≤-41.20	PASS
				AV	2382.635	-47.17	≤-41.20	PASS
				AV	2390.000	-47.87	≤-41.20	PASS
				Peak	2310.000	-41.89	≤-21.20	PASS
				Peak	2380.535	-37.52	≤-21.20	PASS
				Peak	2390.000	-41.7	≤-21.20	PASS
		High	2480	AV	2483.500	-47.49	≤-41.20	PASS
				AV	2498.080	-47.03	≤-41.20	PASS
				AV	2500.000	-47.13	≤-41.20	PASS
				Peak	2483.500	-40.15	≤-21.20	PASS
				Peak	2498.240	-38.38	≤-21.20	PASS
				Peak	2500.000	-40.95	≤-21.20	PASS

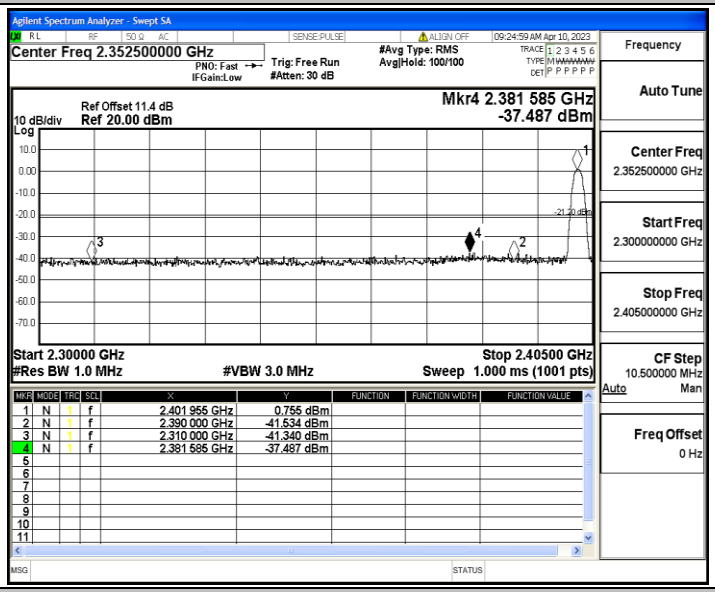
Note：

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.

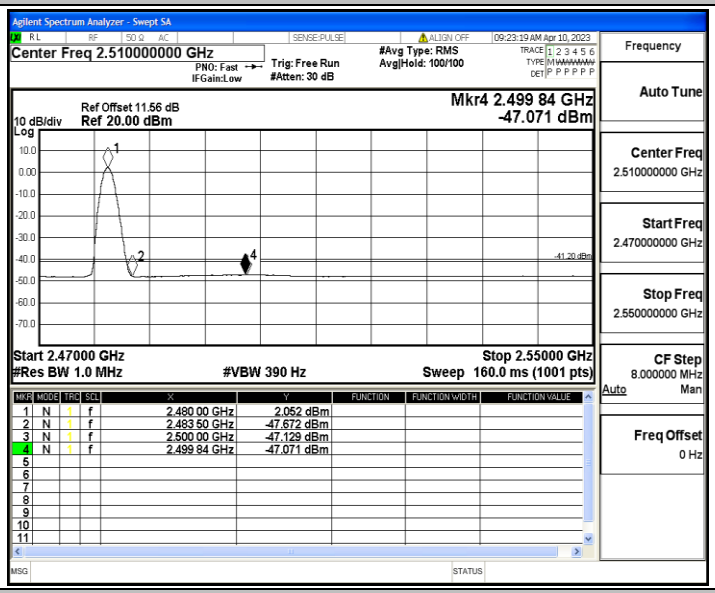
Test Graphs



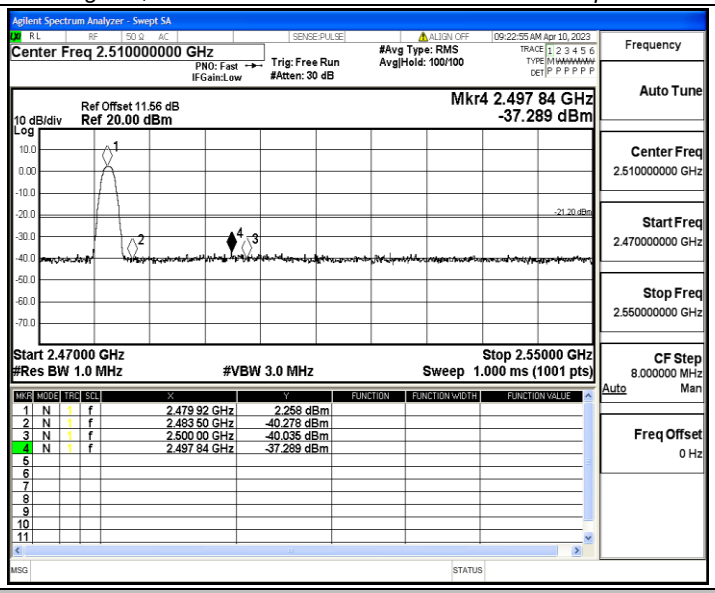
DH5_Ant1_Low_2402_AV



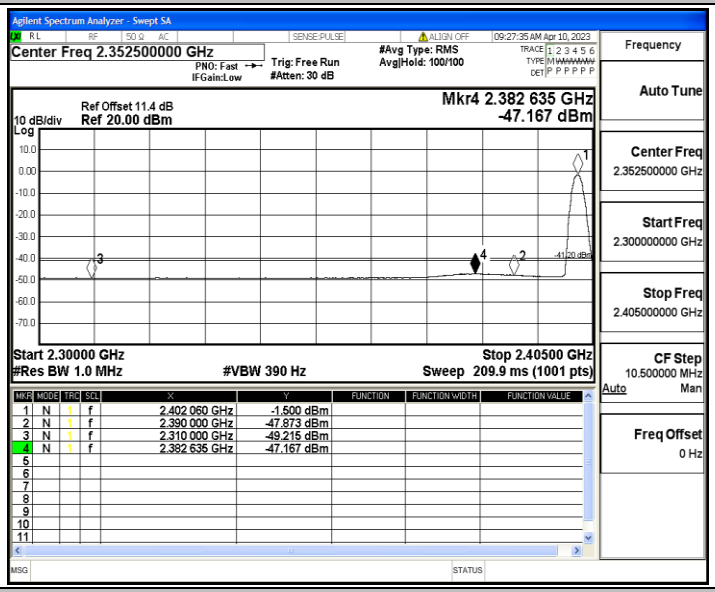
DH5_Ant1_Low_2402_Peak



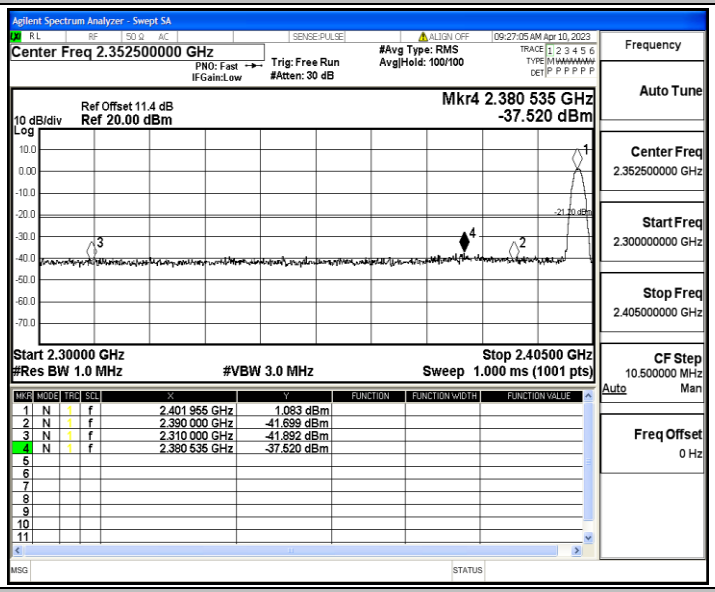
DH5_Ant1_High_2480_AV



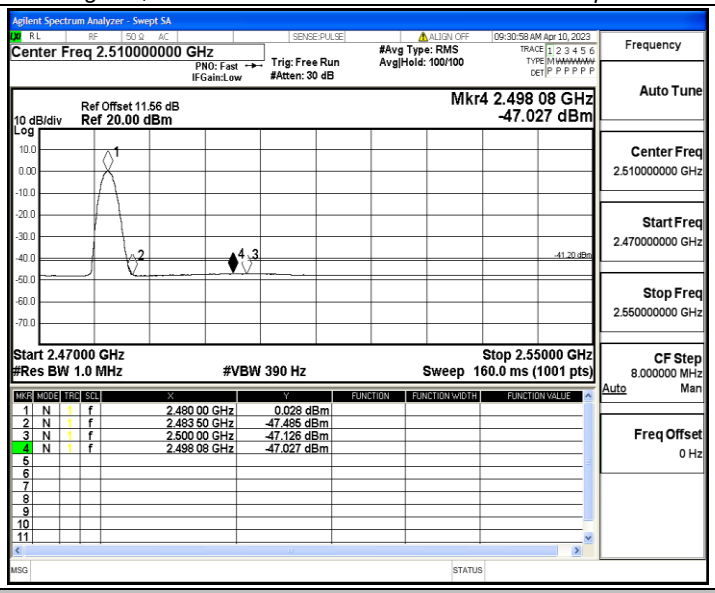
DH5_Ant1_High_2480_Peak



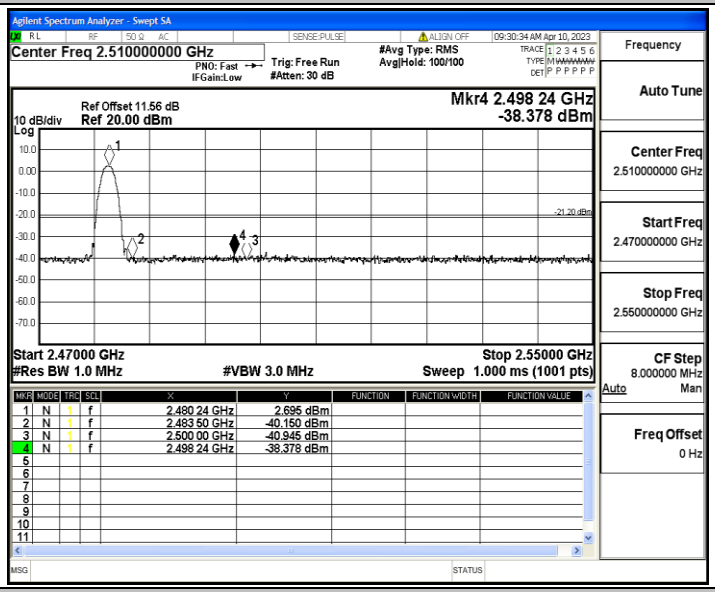
2DH5_Ant1_Low_2402_AV



2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV



2DH5_Ant1_High_2480_Peak