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

Product Name: TGAone Air conduction Bluetooth headset

Trade Mark: N/A

Test Model: TGAone

FCC ID: 2BF9J-TGAONE

Environmental Conditions

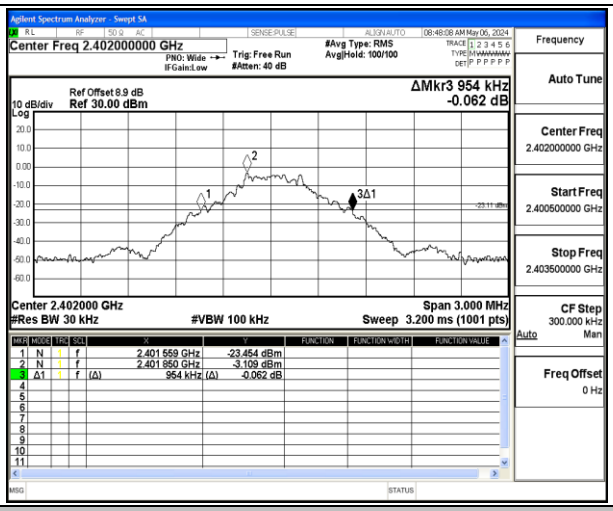
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: 20dB Emission Bandwidth

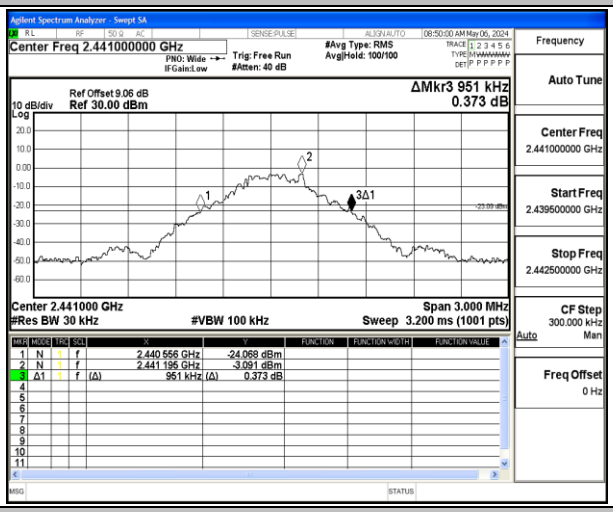
Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.559	2402.513	---	---
DH5	Ant1	2441	0.951	2440.556	2441.507	---	---
DH5	Ant1	2480	0.954	2479.583	2480.537	---	---
2DH5	Ant1	2402	1.317	2401.379	2402.696	---	---
2DH5	Ant1	2441	1.320	2440.331	2441.651	---	---
2DH5	Ant1	2480	1.284	2479.346	2480.630	---	---
3DH5	Ant1	2402	1.299	2401.340	2402.639	---	---
3DH5	Ant1	2441	1.290	2440.349	2441.639	---	---
3DH5	Ant1	2480	1.317	2479.331	2480.648	---	---

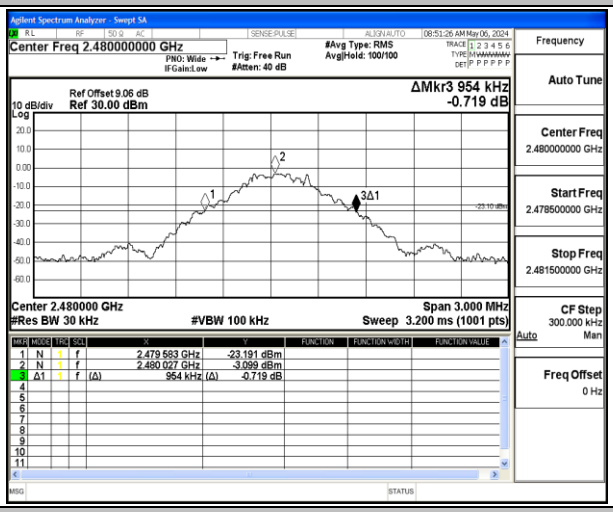
Test Graphs



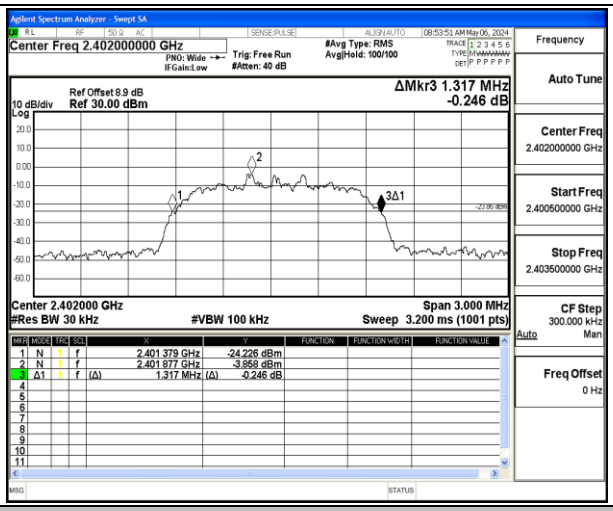
DH5-Ant1-2402



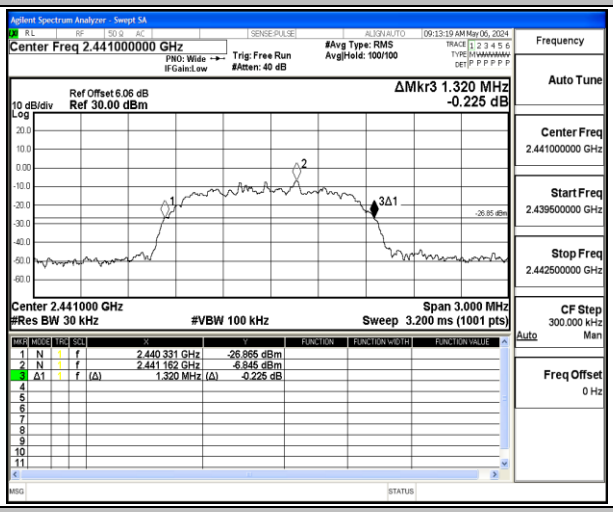
DH5-Ant1-2441



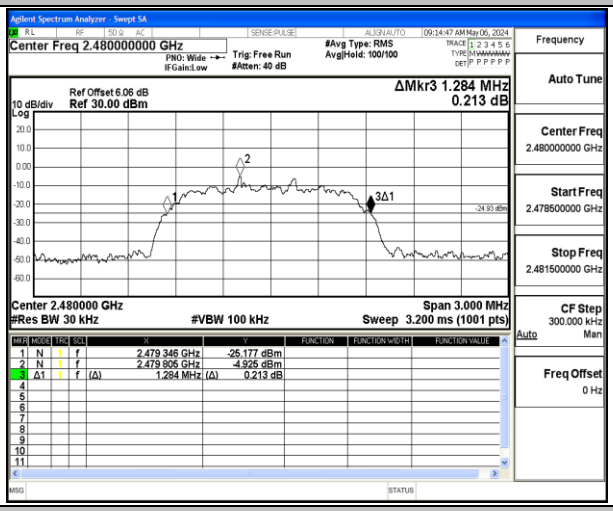
DH5-Ant1-2480



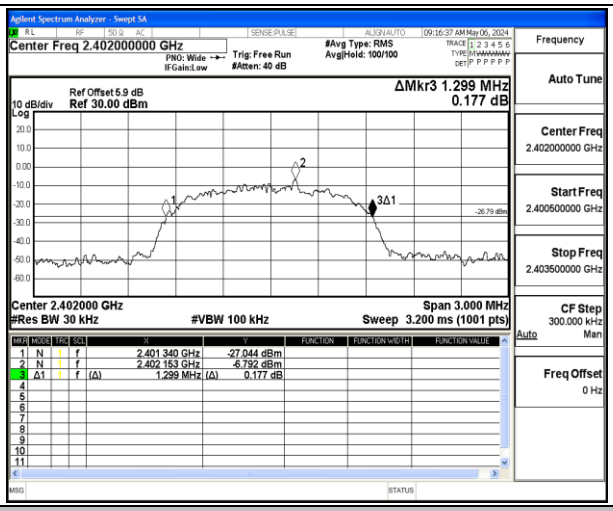
2DH5-Ant1-2402



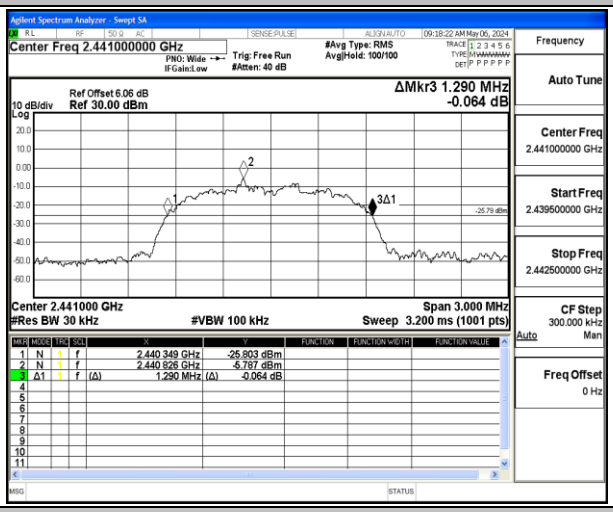
2DH5-Ant1-2441



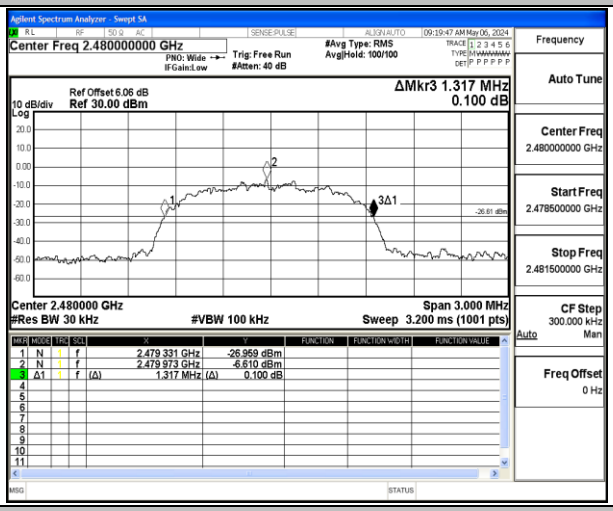
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



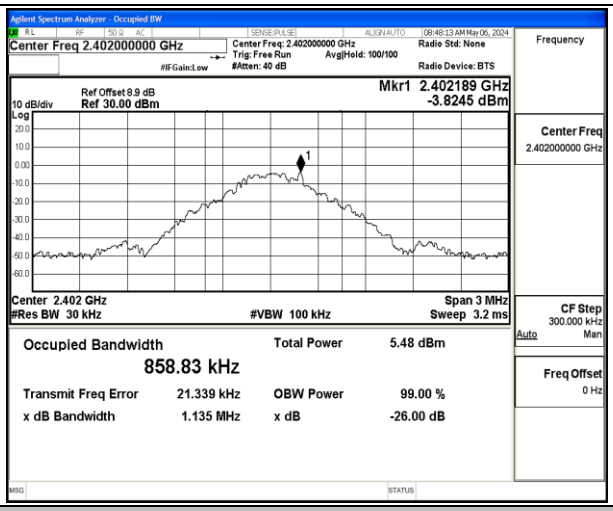
3DH5-Ant1-2480

Appendix B: Occupied Channel Bandwidth

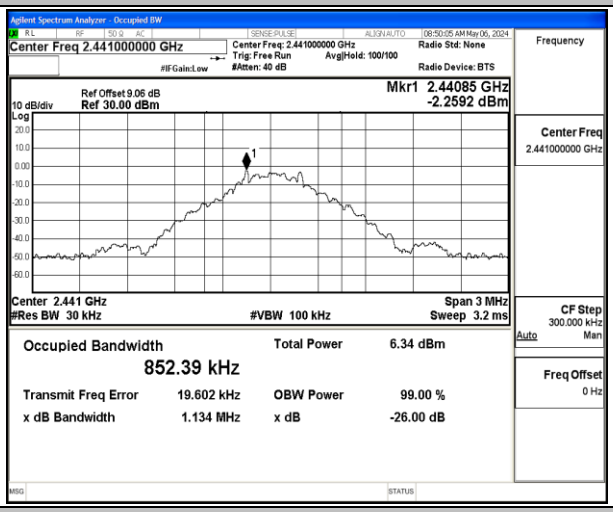
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85883	2401.5919	2402.4508	---	---
DH5	Ant1	2441	0.85239	2440.5934	2441.4458	---	---
DH5	Ant1	2480	0.85129	2479.6211	2480.4724	---	---
2DH5	Ant1	2402	1.1840	2401.4449	2402.6289	---	---
2DH5	Ant1	2441	1.1769	2440.4029	2441.5798	---	---
2DH5	Ant1	2480	1.1899	2479.3847	2480.5746	---	---
3DH5	Ant1	2402	1.1703	2401.4080	2402.5783	---	---
3DH5	Ant1	2441	1.1863	2440.3969	2441.5832	---	---
3DH5	Ant1	2480	1.1782	2479.3998	2480.5780	---	---

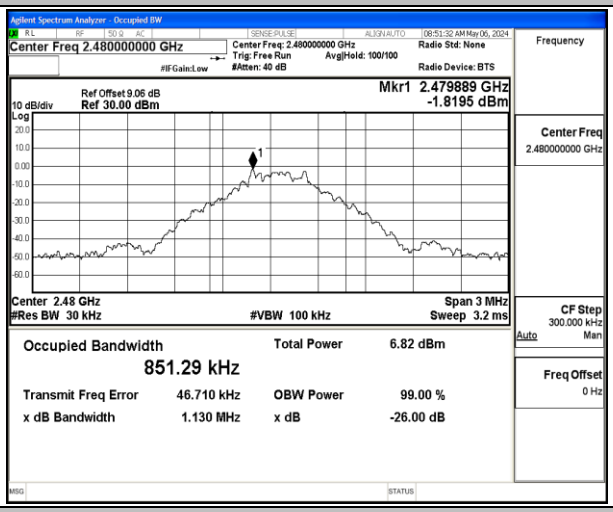
Test Graphs



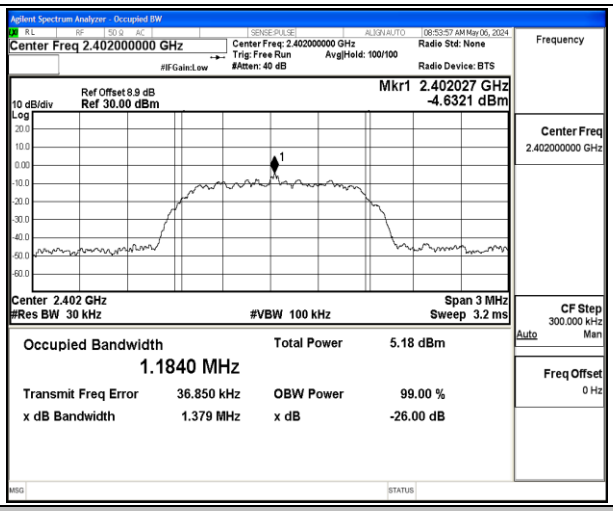
DH5-Ant1-2402



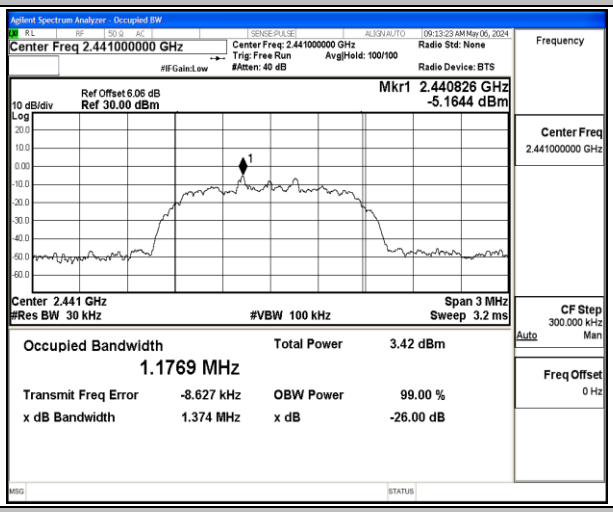
DH5-Ant1-2441



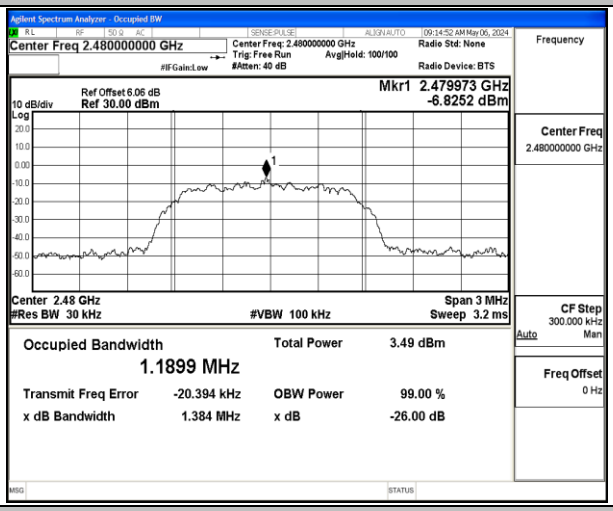
DH5-Ant1-2480



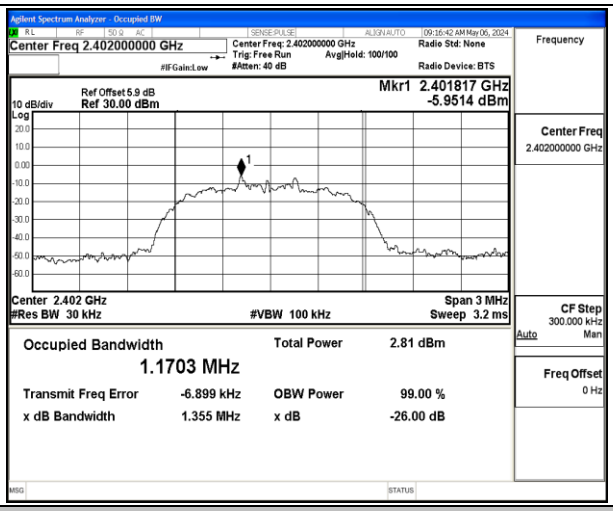
2DH5-Ant1-2402



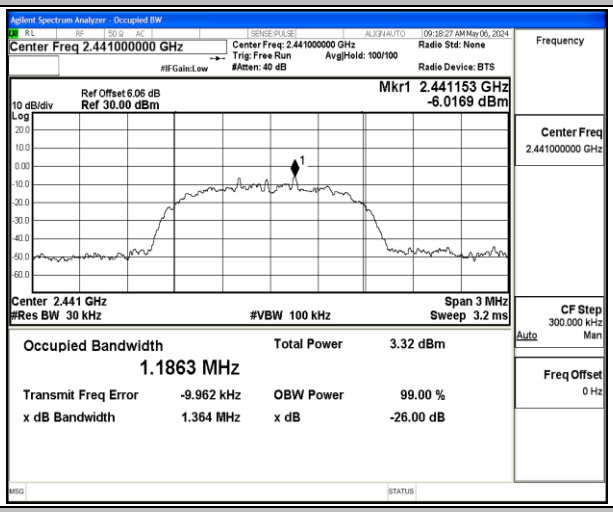
2DH5-Ant1-2441



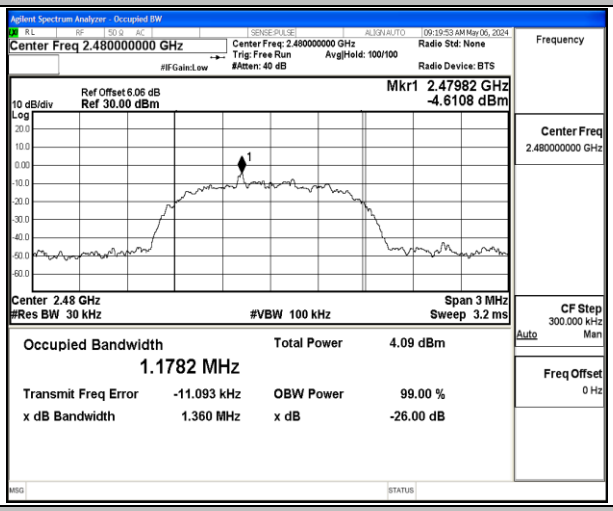
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



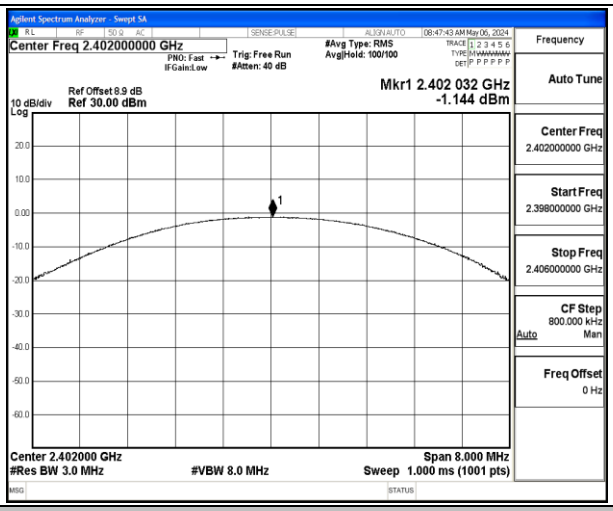
3DH5-Ant1-2480

Appendix C: Maximum peak conducted output power

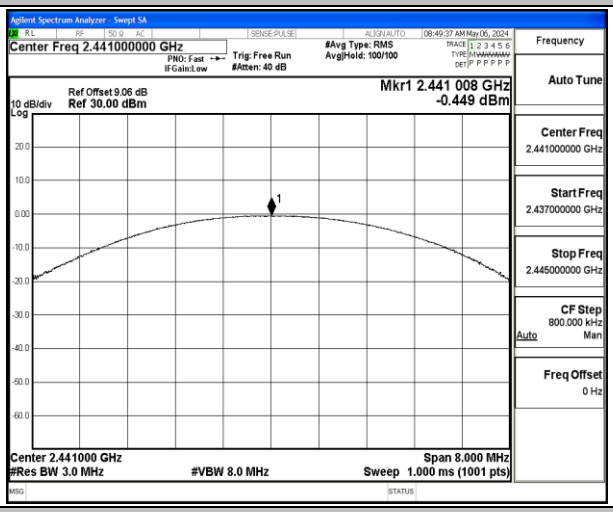
Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-1.14	≤30	PASS
DH5	Ant1	2441	-0.45	≤30	PASS
DH5	Ant1	2480	0.06	≤30	PASS
2DH5	Ant1	2402	0.81	≤20.97	PASS
2DH5	Ant1	2441	-1.32	≤20.97	PASS
2DH5	Ant1	2480	-0.80	≤20.97	PASS
3DH5	Ant1	2402	-1.62	≤20.97	PASS
3DH5	Ant1	2441	-0.83	≤20.97	PASS
3DH5	Ant1	2480	-0.20	≤20.97	PASS

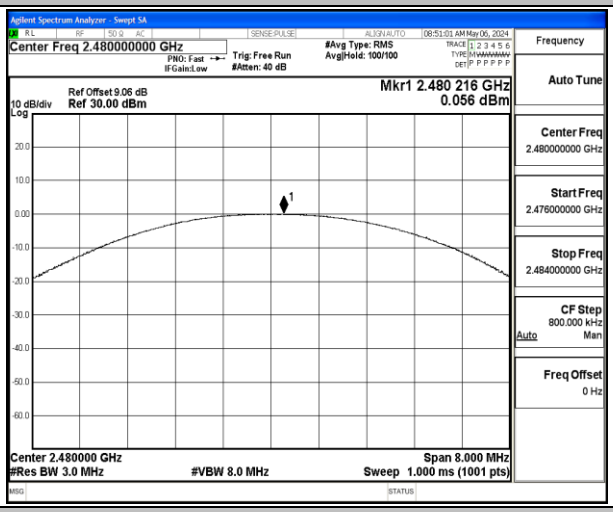
Test Graphs



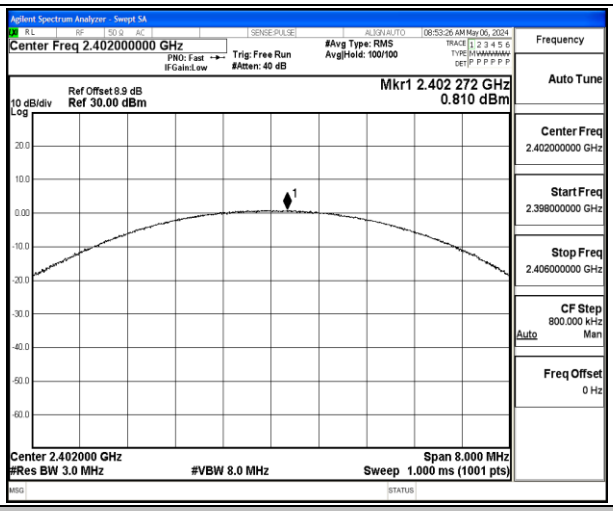
DH5-Ant1-2402-PASS



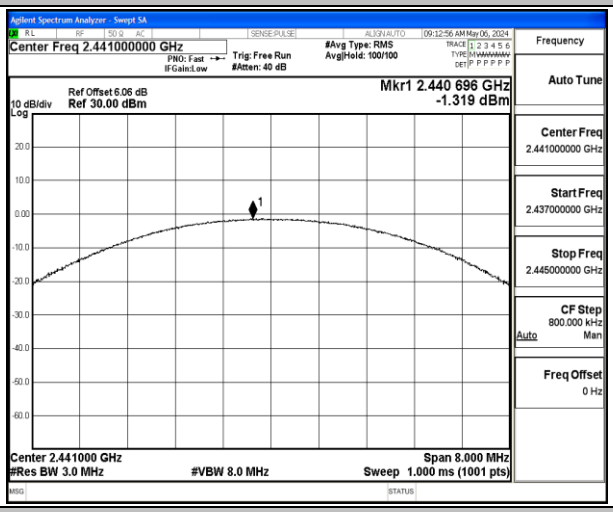
DH5-Ant1-2441-PASS



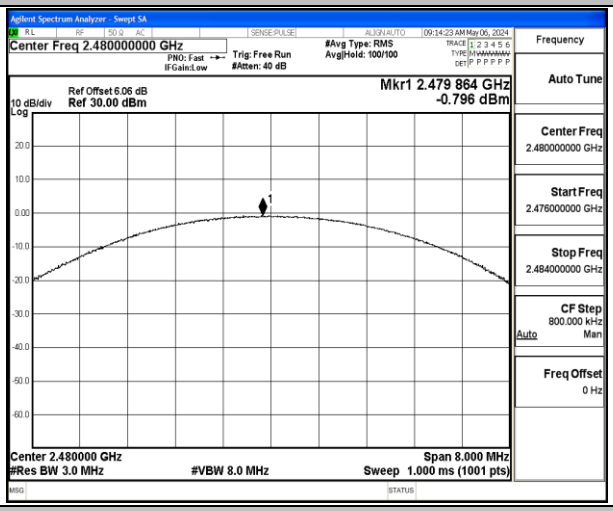
DH5-Ant1-2480-PASS



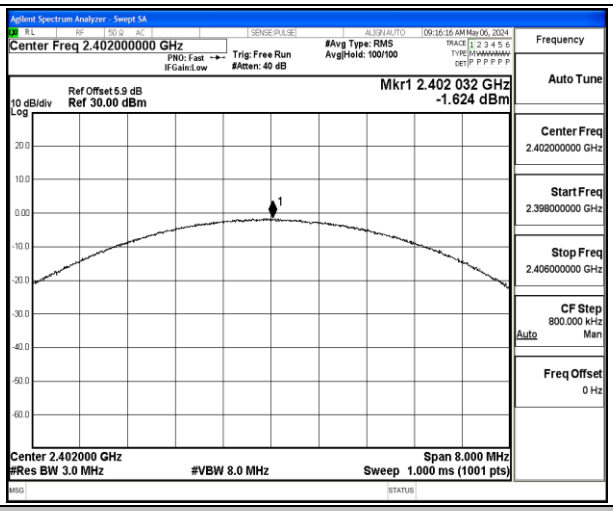
2DH5-Ant1-2402-PASS



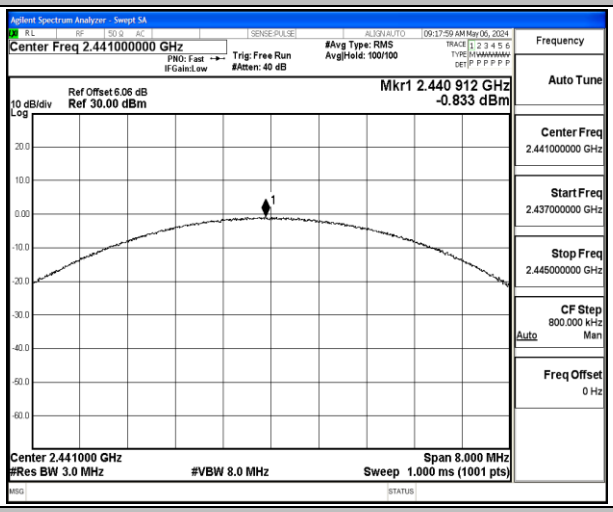
2DH5-Ant1-2441-PASS



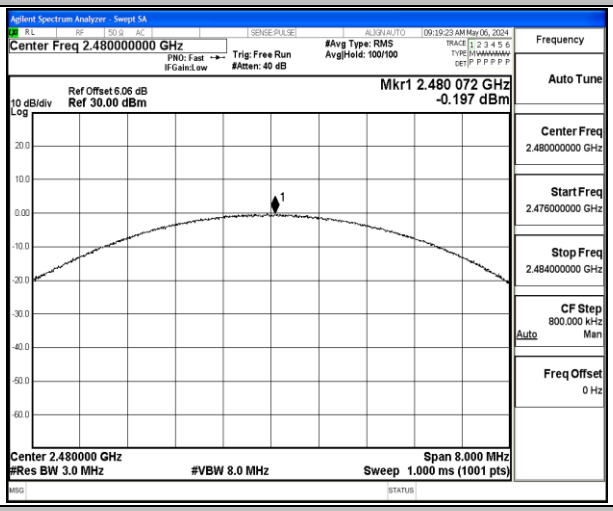
2DH5-Ant1-2480-PASS



3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS



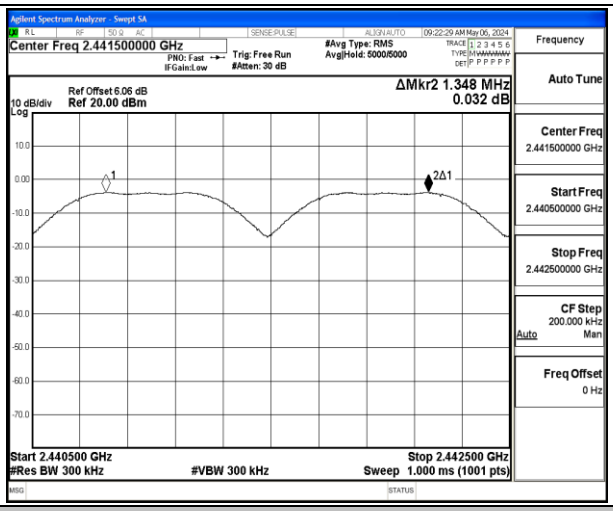
3DH5-Ant1-2480-PASS

Appendix D: Carrier frequency separation

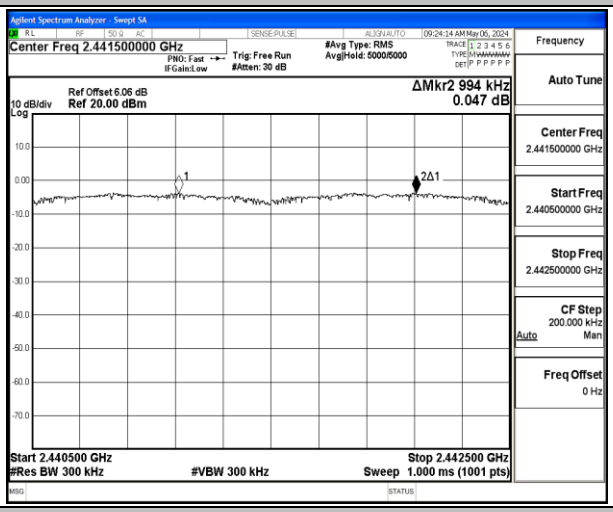
Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.348	≥0.954	PASS
2DH5	Ant1	Hop	0.994	≥0.880	PASS
3DH5	Ant1	Hop	0.98	≥0.878	PASS

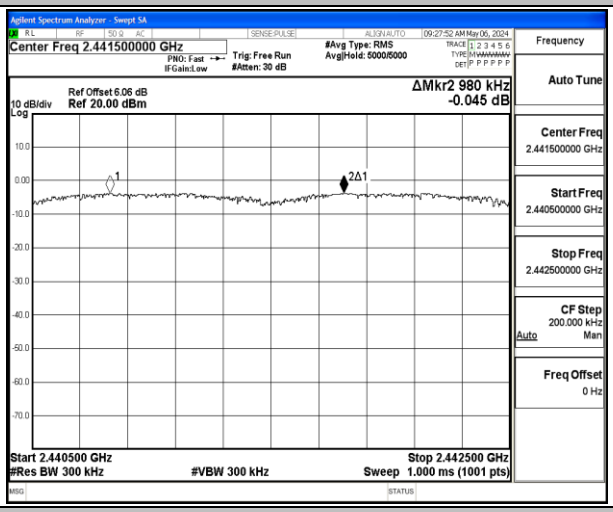
Test Graphs



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



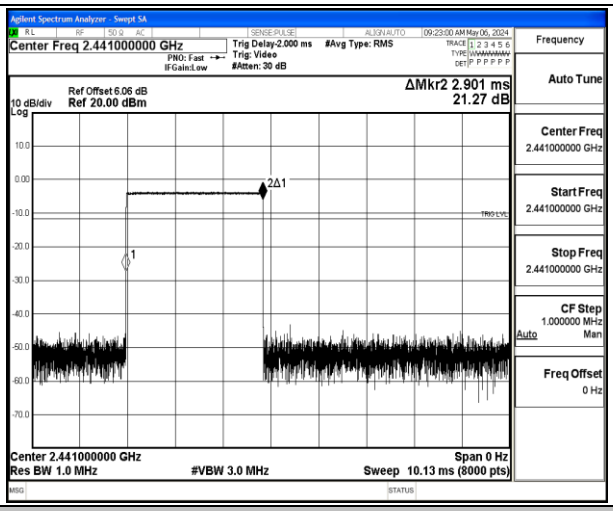
3DH5-Ant1-Hop-PASS

Appendix E: Time of occupancy

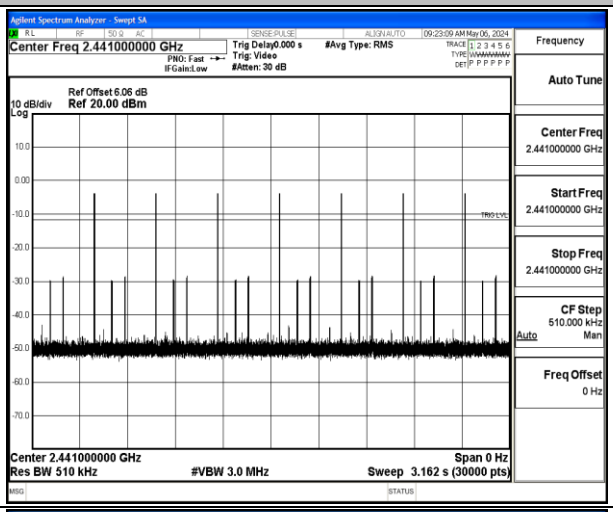
Test Result

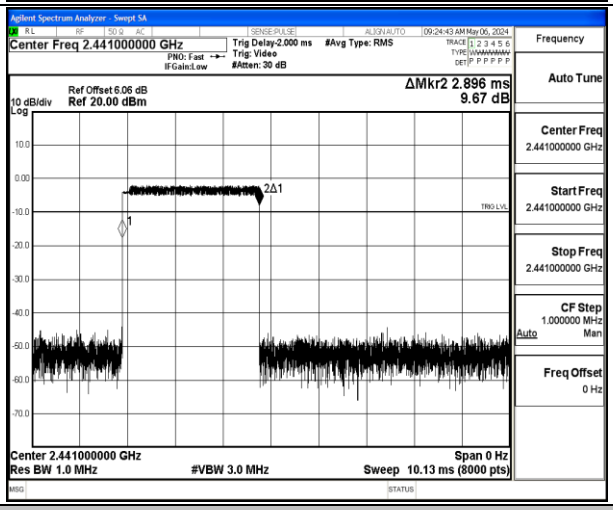
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.901	100	0.29	≤0.4	PASS
2DH5	Ant1	Hop	2.896	120	0.348	≤0.4	PASS
3DH5	Ant1	Hop	2.896	110	0.319	≤0.4	PASS

Test Graphs

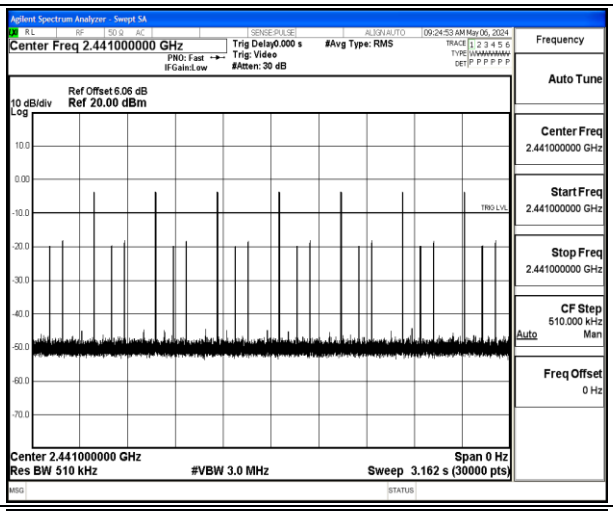


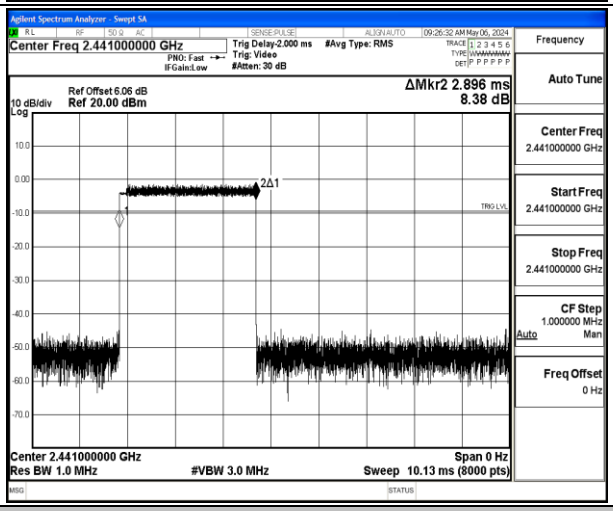
DH5-Ant1-Hop-PASS



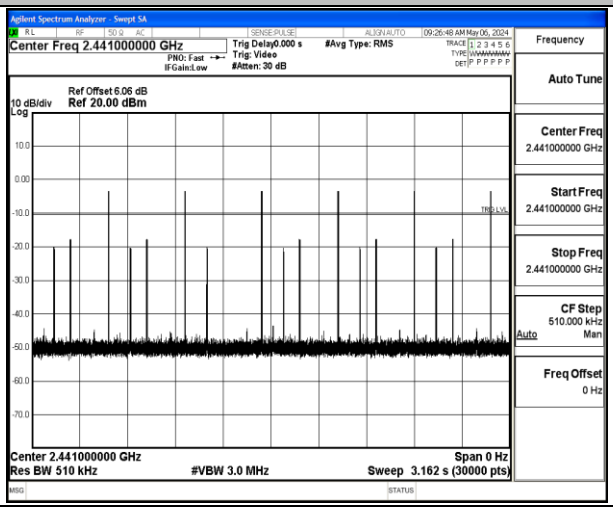


2DH5-Ant1-Hop-PASS





3DH5-Ant1-Hop-PASS

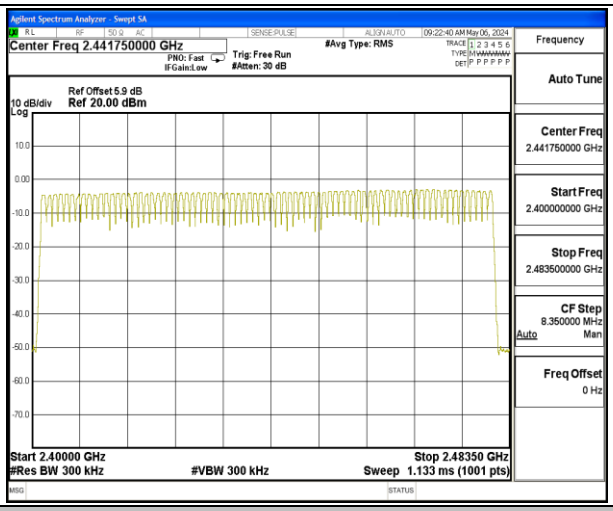


Appendix F: Number of hopping channels

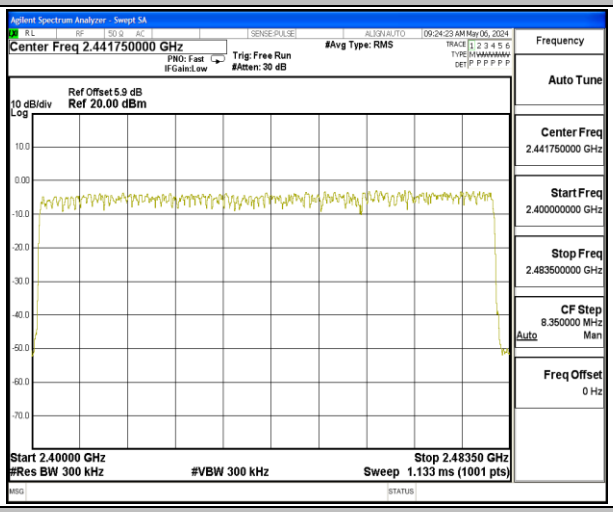
Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

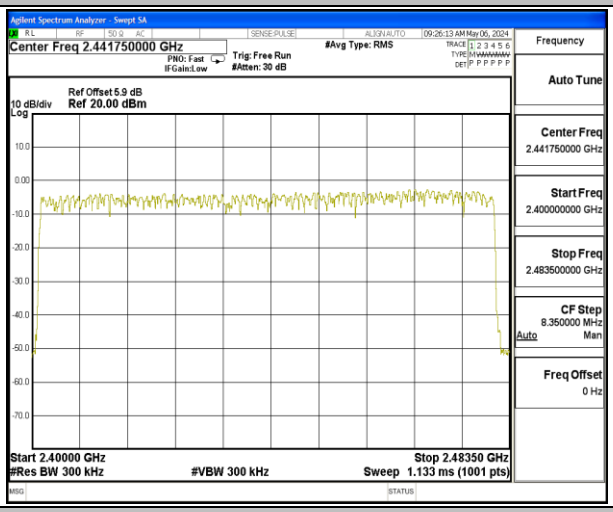
Test Graphs



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



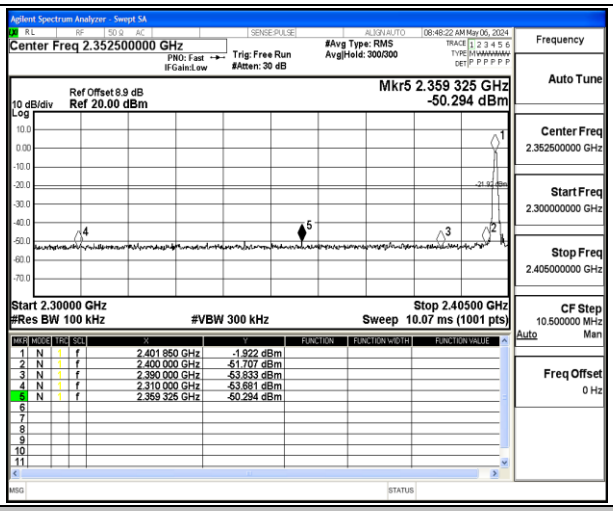
3DH5-Ant1-Hop-PASS

Appendix G: Band edge measurements

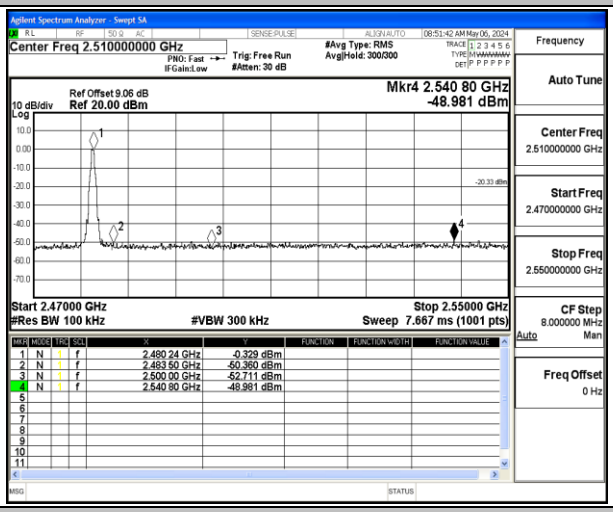
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.92	-50.29	≤-21.92	PASS
DH5	Ant1	High	2480	-0.33	-48.98	≤-20.33	PASS
DH5	Ant1	Low	Hop_2402	-5.21	-53.44	≤-25.21	PASS
DH5	Ant1	High	Hop_2480	-3.44	-52.56	≤-23.44	PASS
2DH5	Ant1	Low	2402	-1.72	-49.94	≤-21.72	PASS
2DH5	Ant1	High	2480	-3.32	-52.81	≤-23.32	PASS
2DH5	Ant1	Low	Hop_2402	-6.93	-53.36	≤-26.93	PASS
2DH5	Ant1	High	Hop_2480	-4.19	-52.14	≤-24.19	PASS
3DH5	Ant1	Low	2402	-4.72	-52.63	≤-24.72	PASS
3DH5	Ant1	High	2480	-3.26	-52.51	≤-23.26	PASS
3DH5	Ant1	Low	Hop_2402	-7.41	-53.53	≤-27.41	PASS
3DH5	Ant1	High	Hop_2480	-4.47	-52.42	≤-24.47	PASS

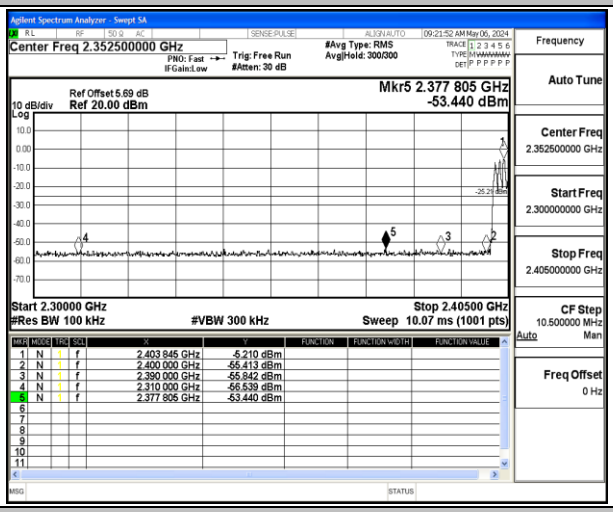
Test Graphs



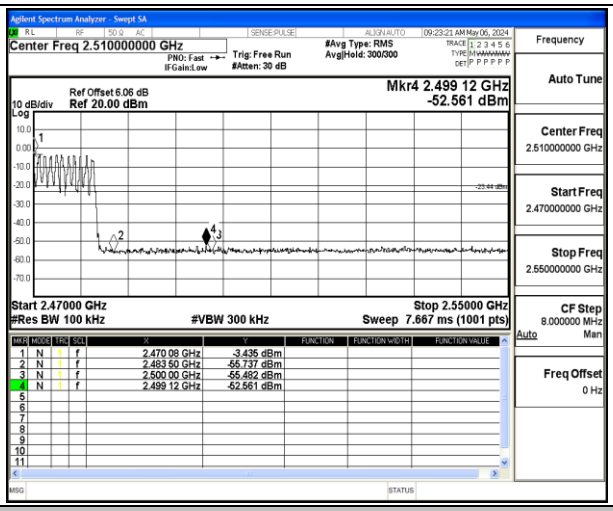
DH5-Ant1-2402-PASS



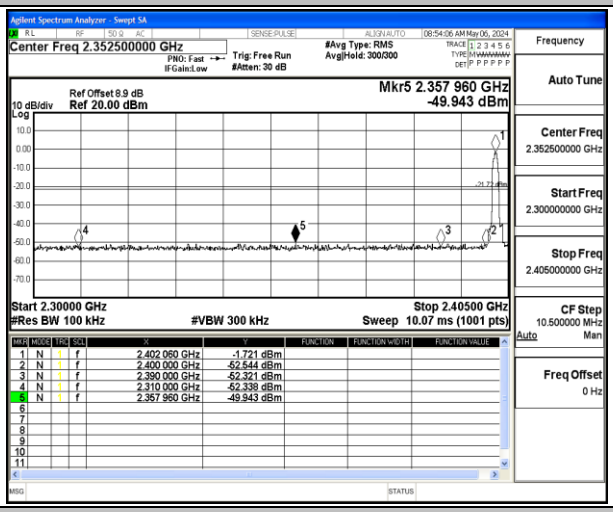
DH5-Ant1-2480-PASS



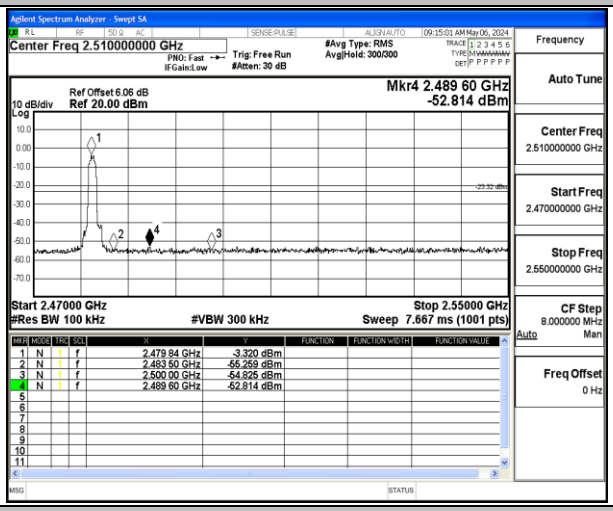
DH5-Ant1-Hop_2402-PASS



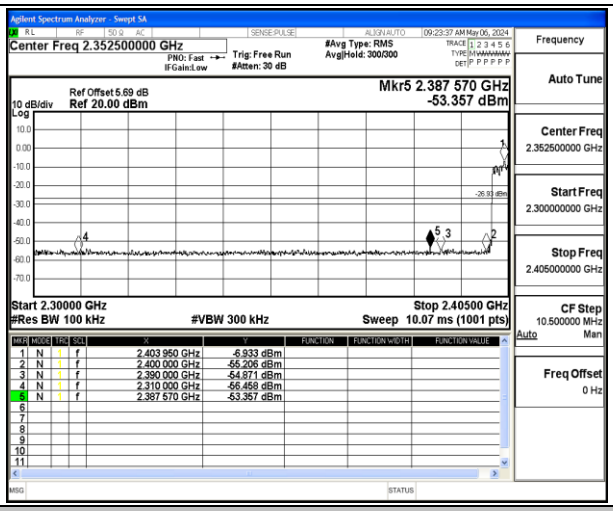
DH5-Ant1-Hop_2480-PASS



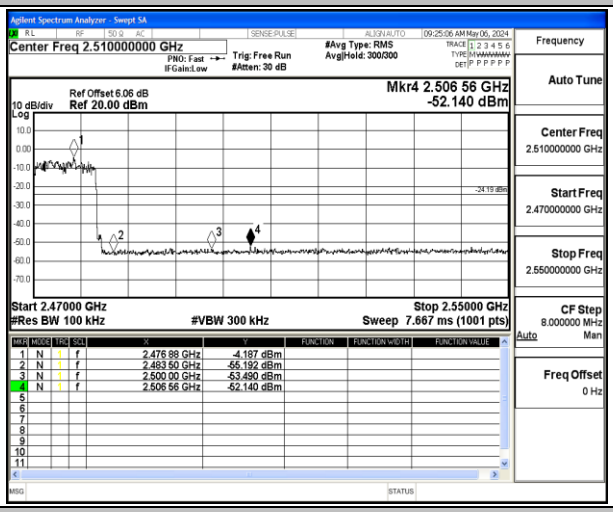
2DH5-Ant1-2402-PASS



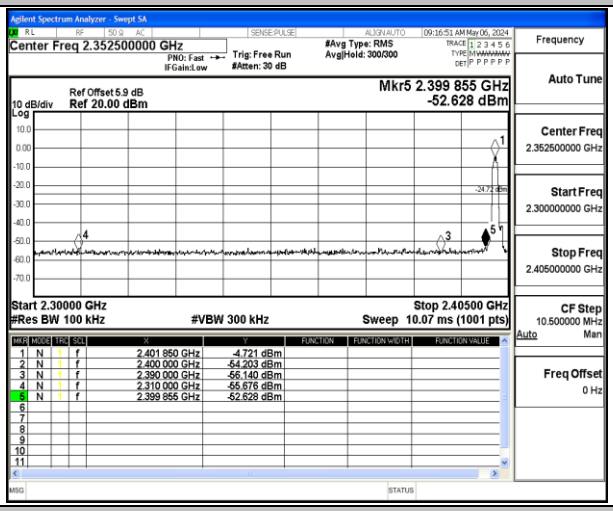
2DH5-Ant1-2480-PASS



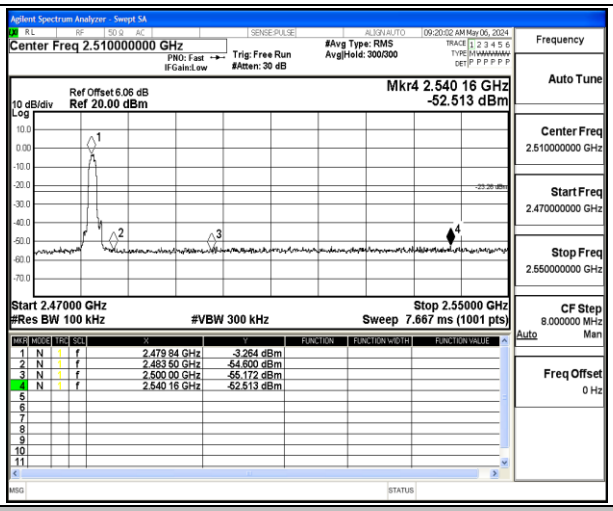
2DH5-Ant1-Hop_2402-PASS



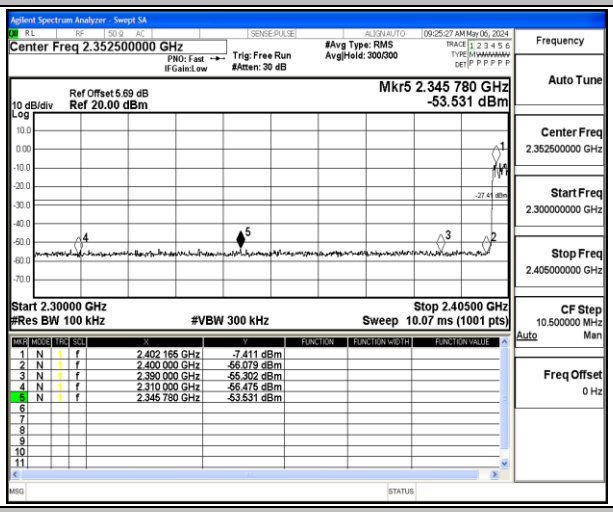
2DH5-Ant1-Hop_2480-PASS



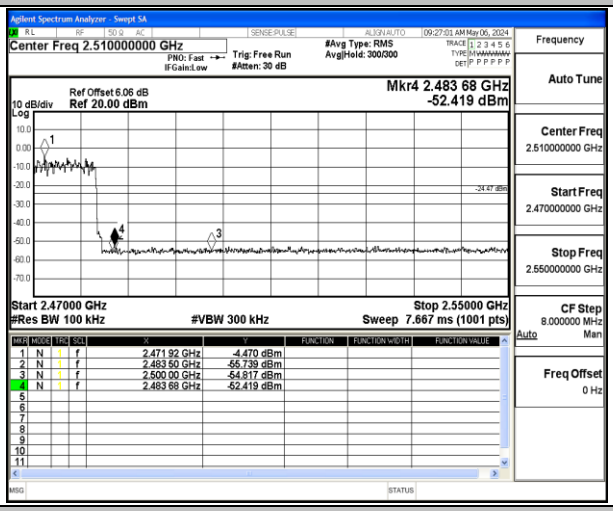
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS



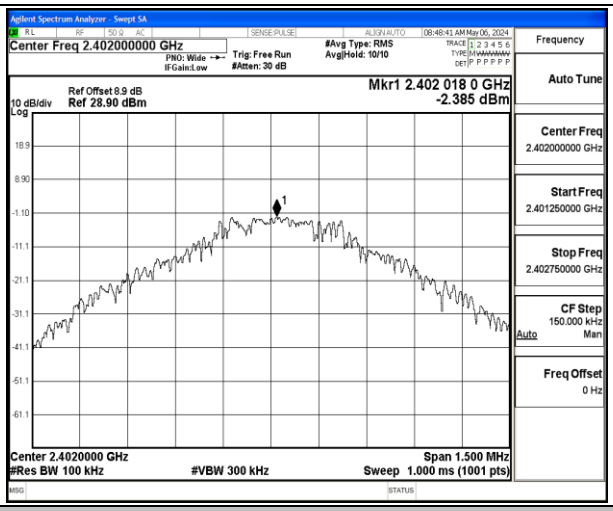
3DH5-Ant1-Hop_2480-PASS

Appendix H: Conducted Spurious Emission

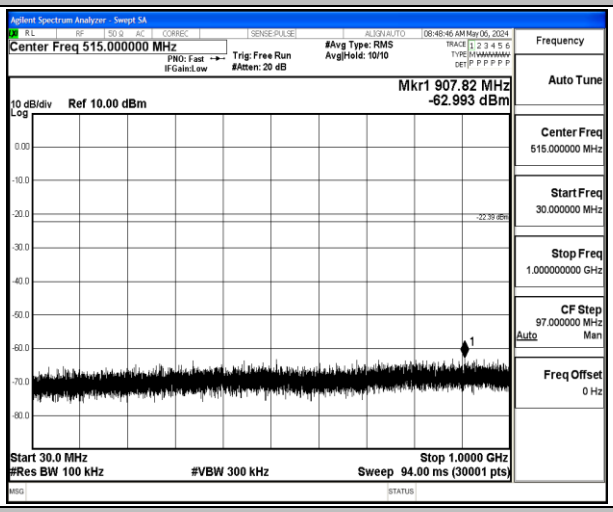
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-2.39	-2.39	---	PASS
DH5	Ant1	2402	30~1000	-2.39	-62.99	≤-22.39	PASS
DH5	Ant1	2402	1000~26500	-2.39	-50.45	≤-22.39	PASS
DH5	Ant1	2441	0~Reference	-1.59	-1.59	---	PASS
DH5	Ant1	2441	30~1000	-1.59	-62.9	≤-21.59	PASS
DH5	Ant1	2441	1000~26500	-1.59	-50.59	≤-21.59	PASS
DH5	Ant1	2480	0~Reference	-1.05	-1.05	---	PASS
DH5	Ant1	2480	30~1000	-1.05	-62.7	≤-21.05	PASS
DH5	Ant1	2480	1000~26500	-1.05	-50.36	≤-21.05	PASS
2DH5	Ant1	2402	0~Reference	-4.10	-4.10	---	PASS
2DH5	Ant1	2402	30~1000	-4.10	-63.14	≤-24.1	PASS
2DH5	Ant1	2402	1000~26500	-4.10	-50.13	≤-24.1	PASS
2DH5	Ant1	2441	0~Reference	-4.38	-4.38	---	PASS
2DH5	Ant1	2441	30~1000	-4.38	-65.25	≤-24.38	PASS
2DH5	Ant1	2441	1000~26500	-4.38	-53.75	≤-24.38	PASS
2DH5	Ant1	2480	0~Reference	-4.04	-4.04	---	PASS
2DH5	Ant1	2480	30~1000	-4.04	-65.2	≤-24.04	PASS
2DH5	Ant1	2480	1000~26500	-4.04	-53.36	≤-24.04	PASS
3DH5	Ant1	2402	0~Reference	-5.37	-5.37	---	PASS
3DH5	Ant1	2402	30~1000	-5.37	-65.12	≤-25.37	PASS
3DH5	Ant1	2402	1000~26500	-5.37	-52.85	≤-25.37	PASS
3DH5	Ant1	2441	0~Reference	-4.29	-4.29	---	PASS
3DH5	Ant1	2441	30~1000	-4.29	-66.15	≤-24.29	PASS
3DH5	Ant1	2441	1000~26500	-4.29	-53.11	≤-24.29	PASS
3DH5	Ant1	2480	0~Reference	-4.69	-4.69	---	PASS
3DH5	Ant1	2480	30~1000	-4.69	-65.97	≤-24.69	PASS
3DH5	Ant1	2480	1000~26500	-4.69	-53.33	≤-24.69	PASS

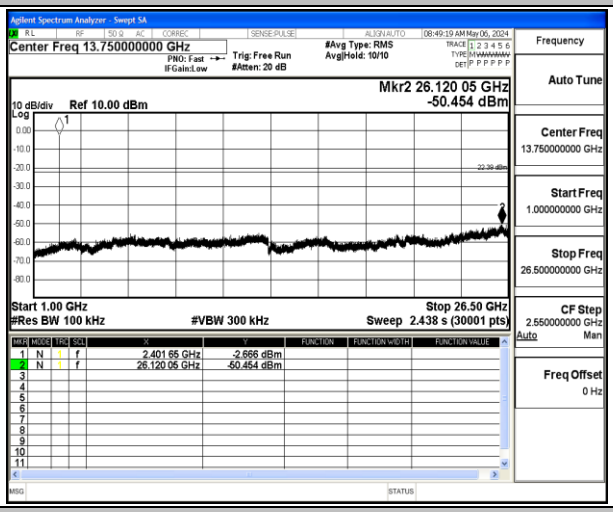
Test Graphs



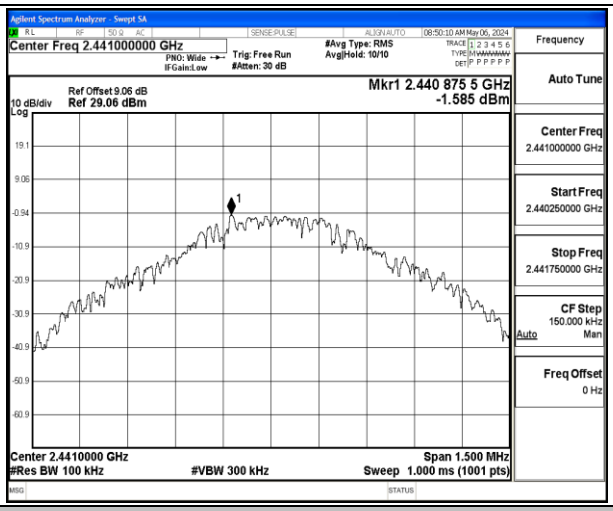
DH5-Ant1-2402-0~Reference-PASS



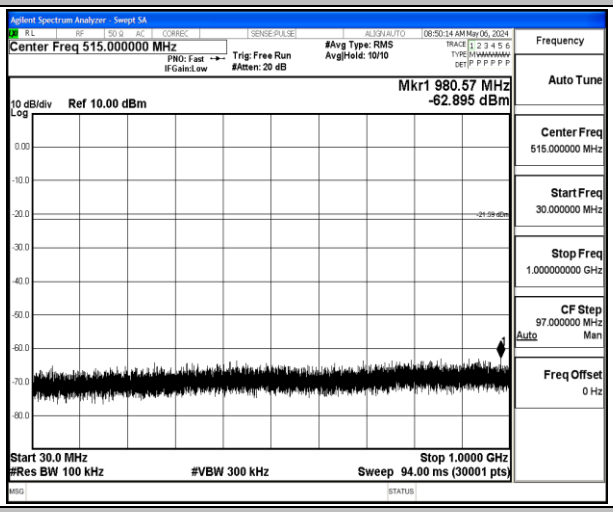
DH5-Ant1-2402-30~1000-PASS



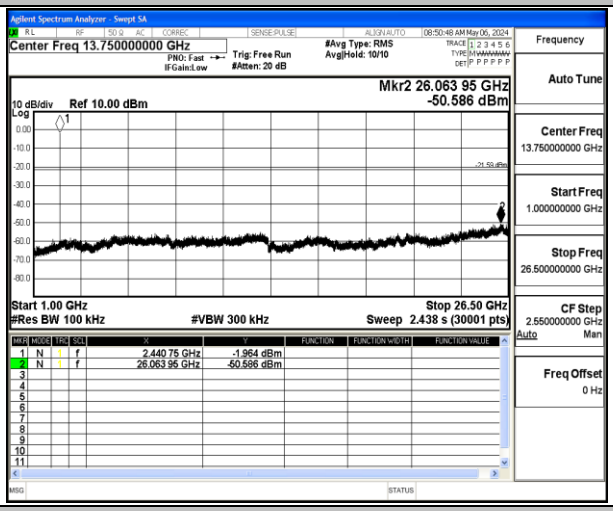
DH5-Ant1-2402-1000~26500-PASS



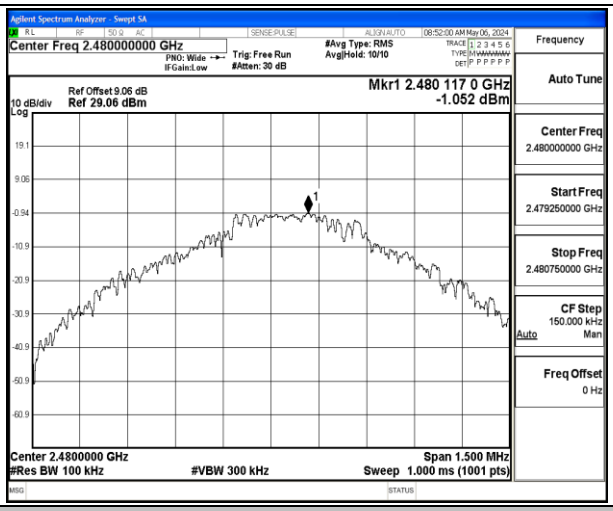
DH5-Ant1-2441-0~Reference-PASS



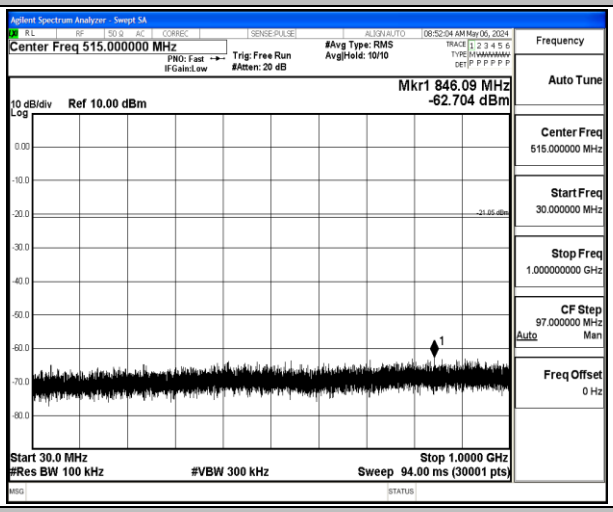
DH5-Ant1-2441-30~1000-PASS



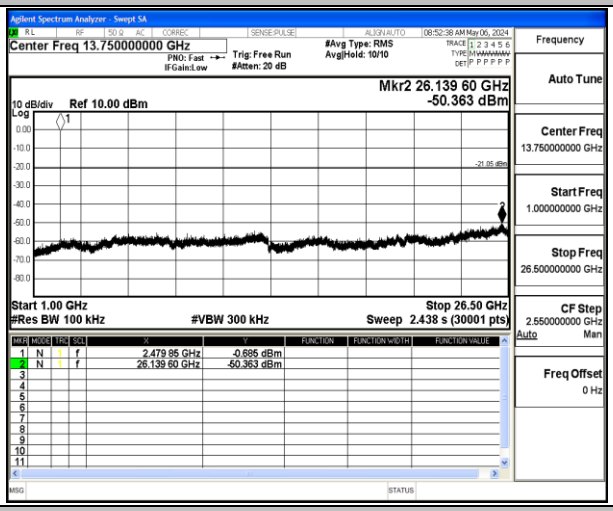
DH5-Ant1-2441-1000~26500-PASS



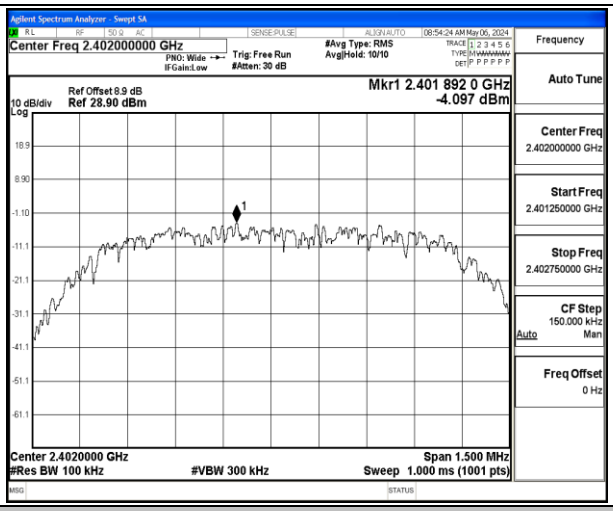
DH5-Ant1-2480-0~Reference-PASS



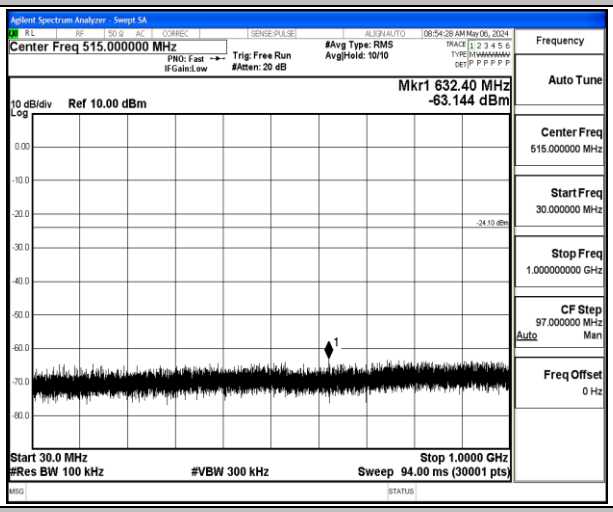
DH5-Ant1-2480-30~1000-PASS



DH5-Ant1-2480-1000~26500-PASS



2DH5-Ant1-2402-0~Reference-PASS



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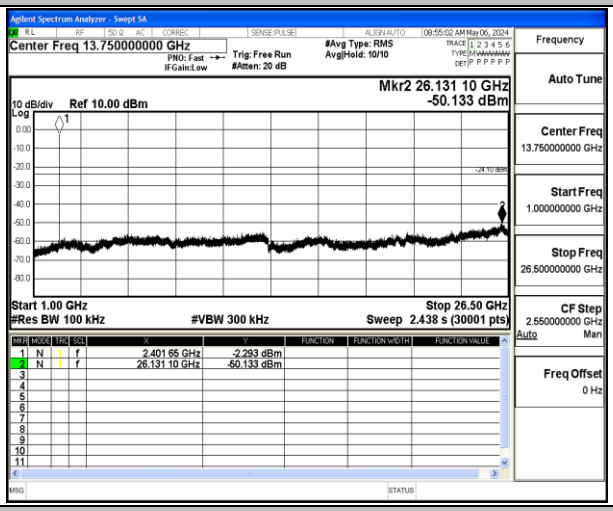

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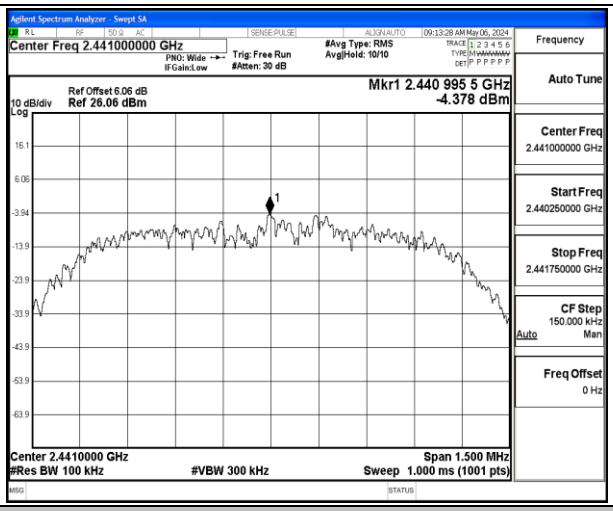
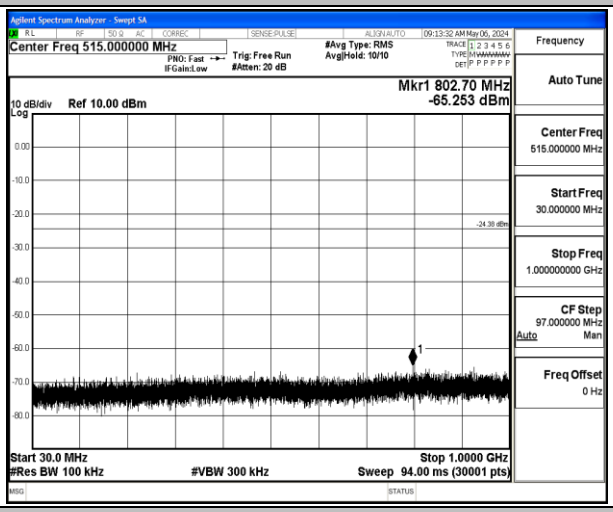
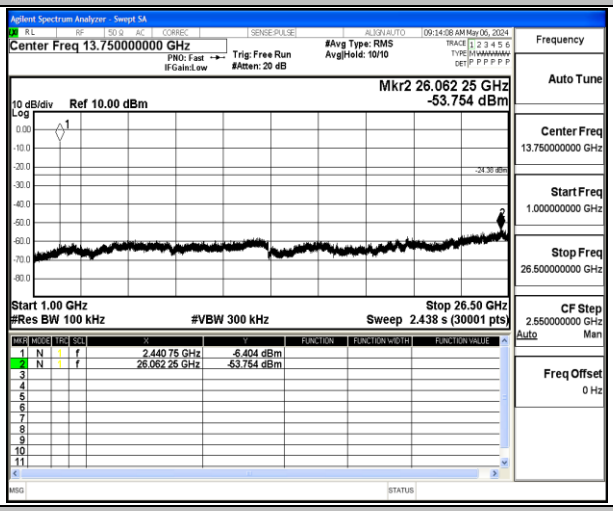


2DH5-Ant1-2441-0~Reference-PASS



2DH5-Ant1-2441-30~1000-PASS



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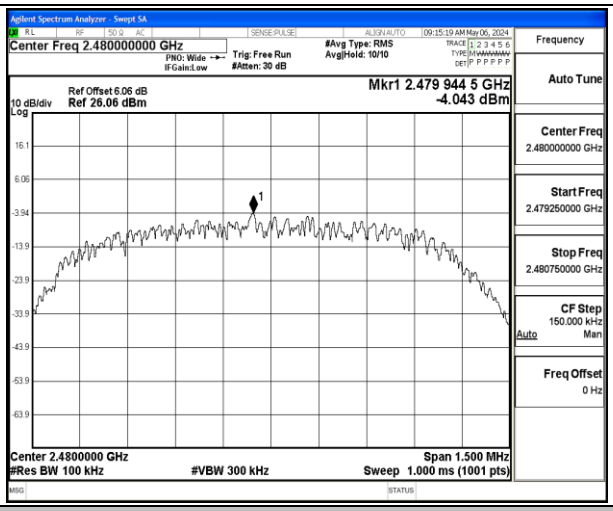
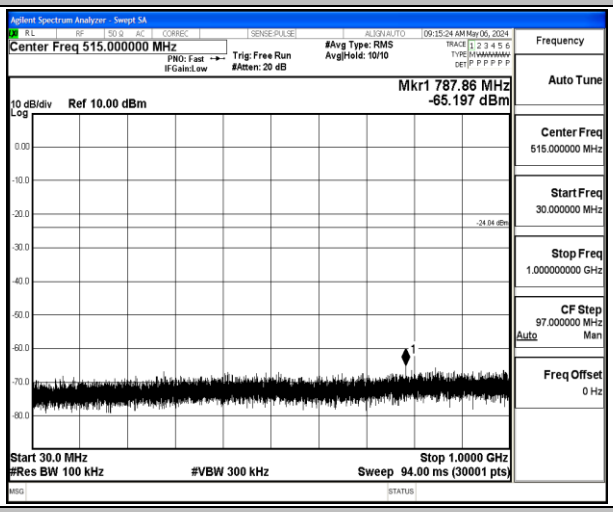
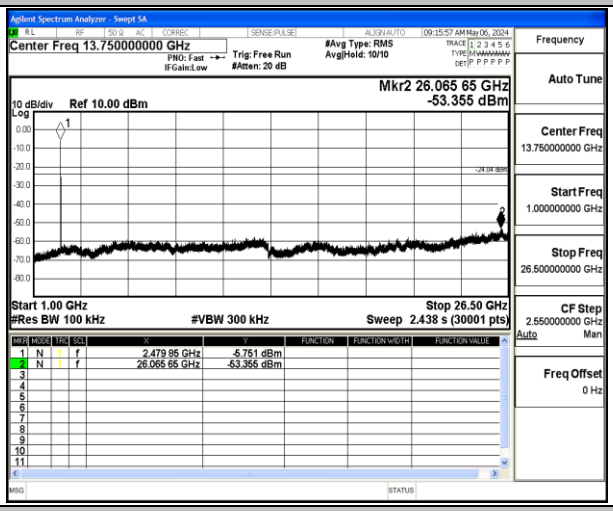


2DH5-Ant1-2480-0~Reference-PASS



2DH5-Ant1-2480-30~1000-PASS



2DH5-Ant1-2480-1000~26500-PASS