

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

Product Name: TWS Bluetooth headset

Trade Mark: N/A

Test Model: N35

FCC ID: 2BFD9-N35

Environmental Conditions

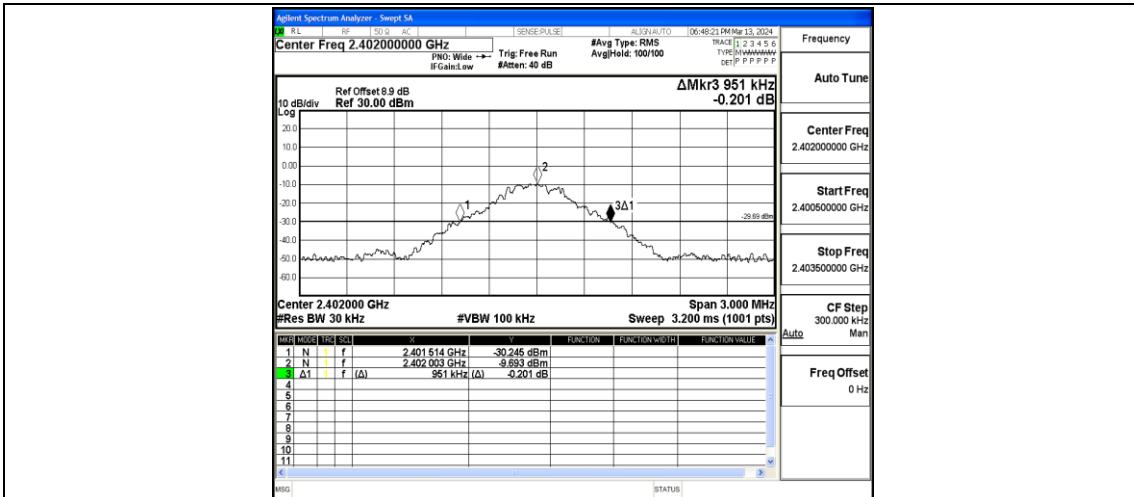
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: 20dB Emission Bandwidth

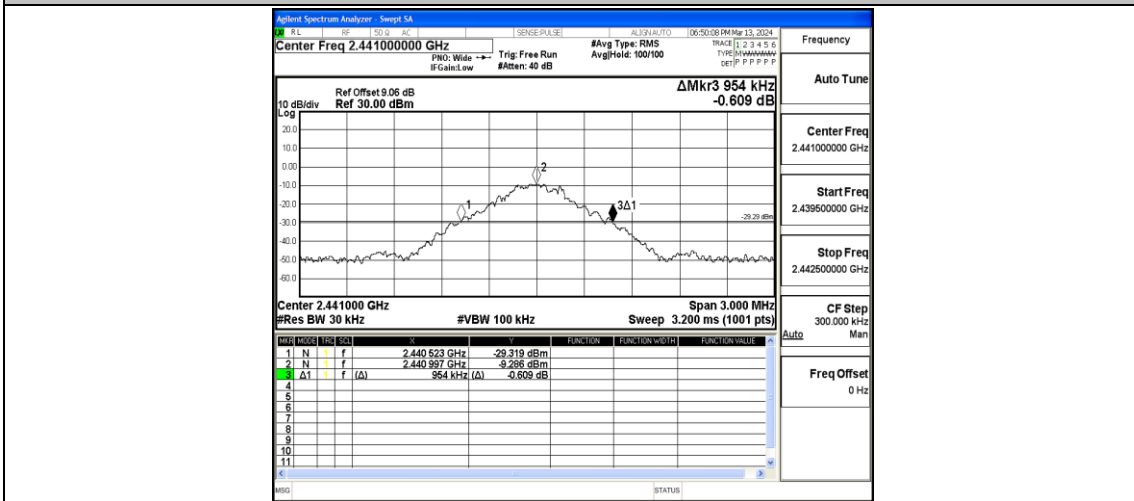
Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.951	2401.514	2402.465	---	---
DH5	Ant1	2441	0.954	2440.523	2441.477	---	---
DH5	Ant1	2480	0.945	2479.520	2480.465	---	---
2DH5	Ant1	2402	1.290	2401.352	2402.642	---	---
2DH5	Ant1	2441	1.338	2440.316	2441.654	---	---
2DH5	Ant1	2480	1.308	2479.331	2480.639	---	---

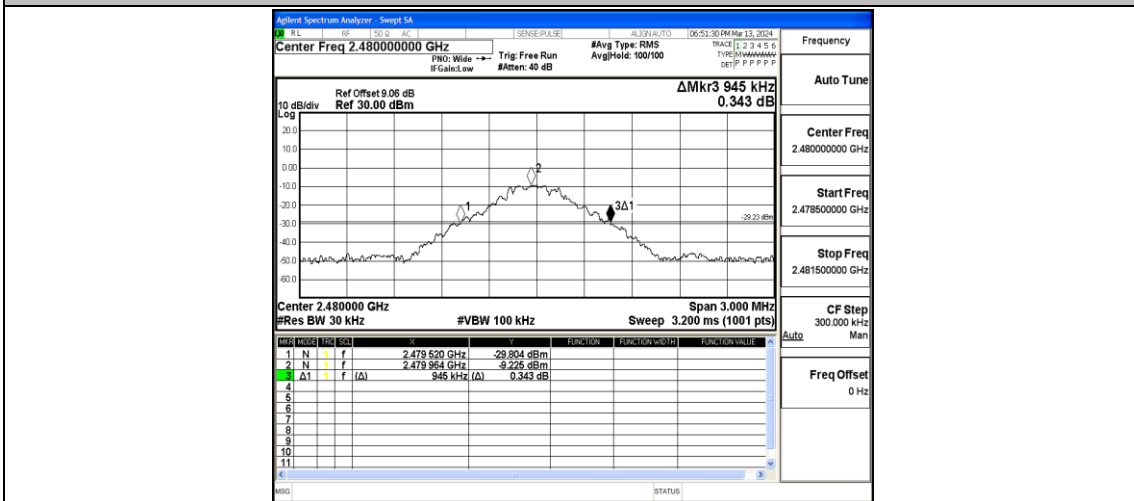
Test Graphs



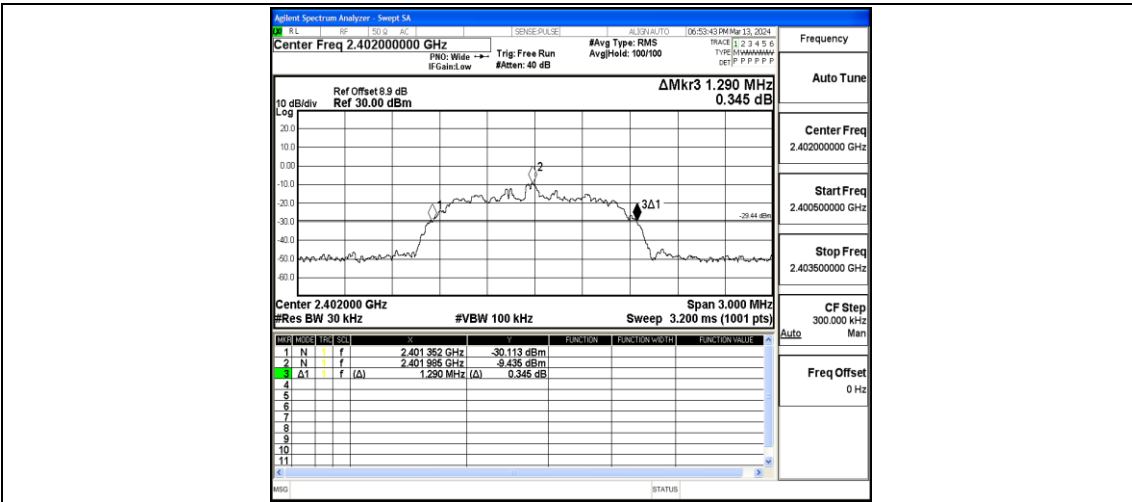
DH5-Ant1-2402



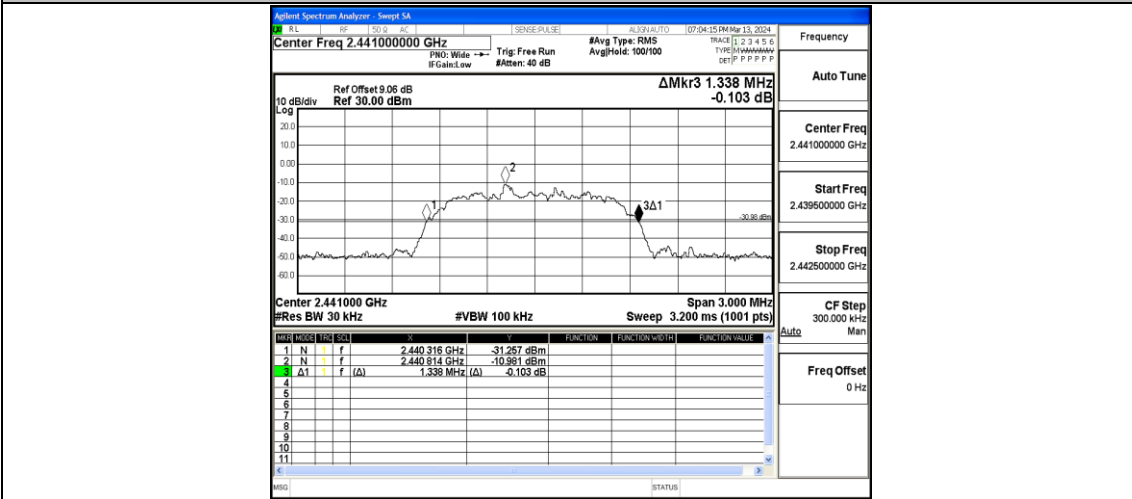
DH5-Ant1-2441



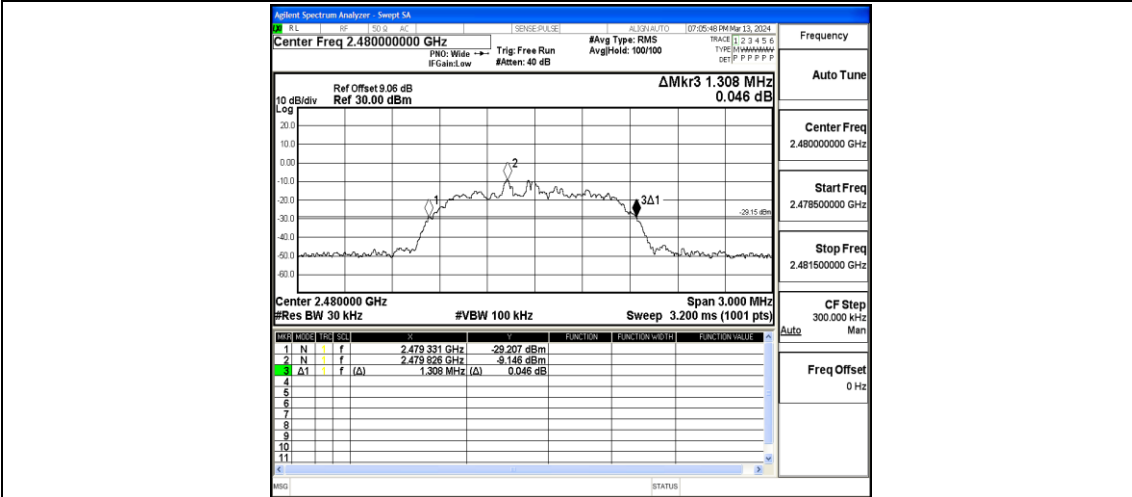
DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



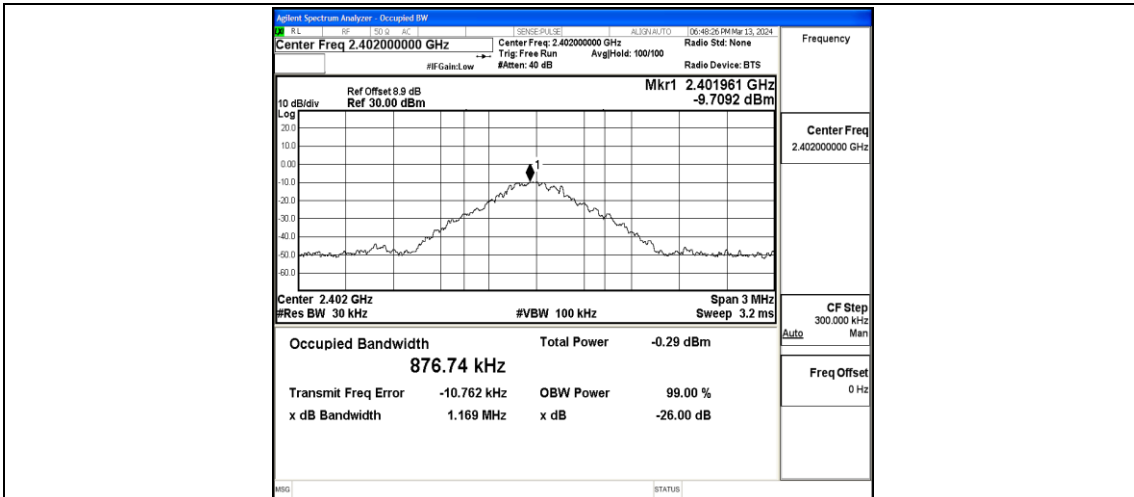
2DH5-Ant1-2480

Appendix B: Occupied Channel Bandwidth

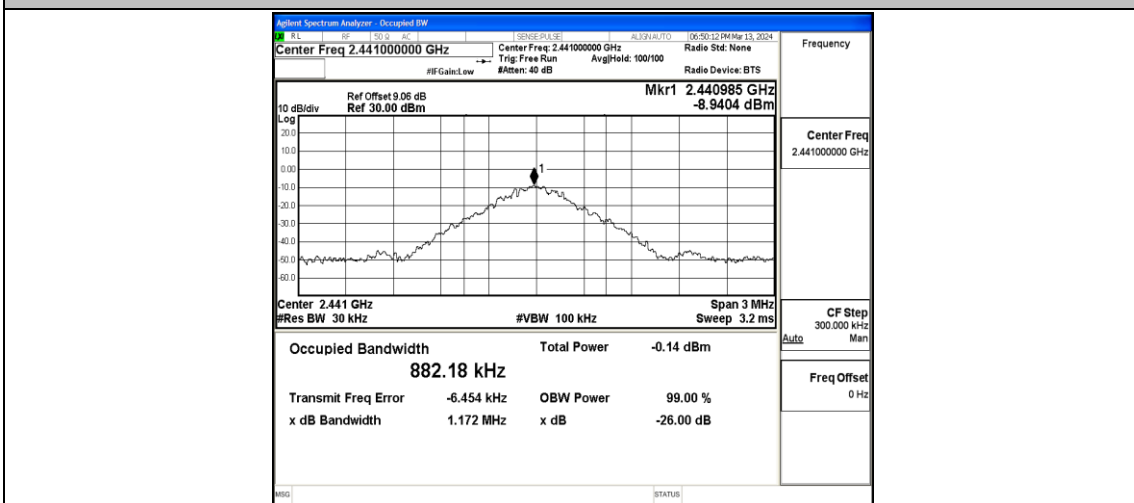
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87674	2401.5509	2402.4276	---	---
DH5	Ant1	2441	0.88218	2440.5525	2441.4346	---	---
DH5	Ant1	2480	0.88968	2479.5477	2480.4373	---	---
2DH5	Ant1	2402	1.2014	2401.3900	2402.5914	---	---
2DH5	Ant1	2441	1.1851	2440.3933	2441.5784	---	---
2DH5	Ant1	2480	1.1840	2479.3958	2480.5798	---	---

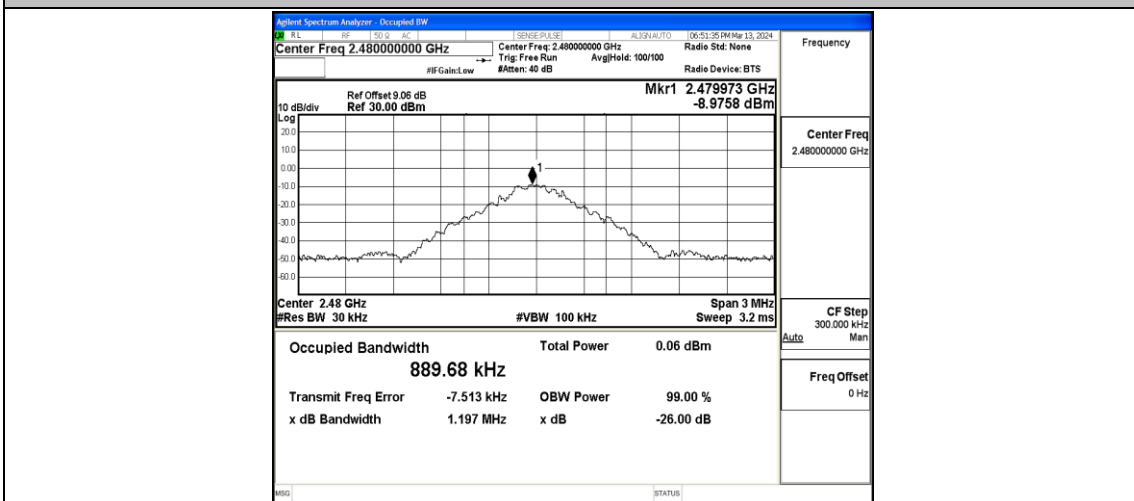
Test Graphs



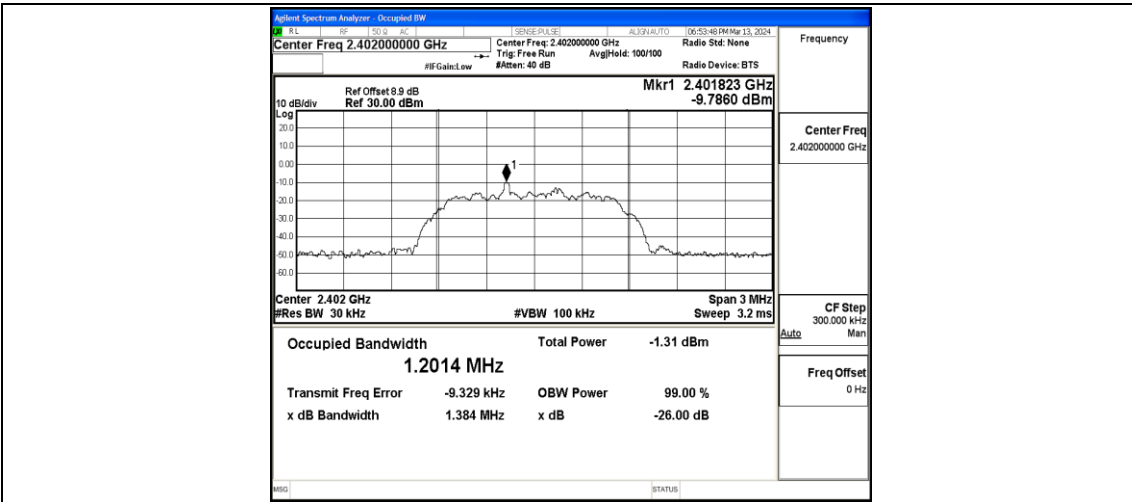
DH5-Ant1-2402



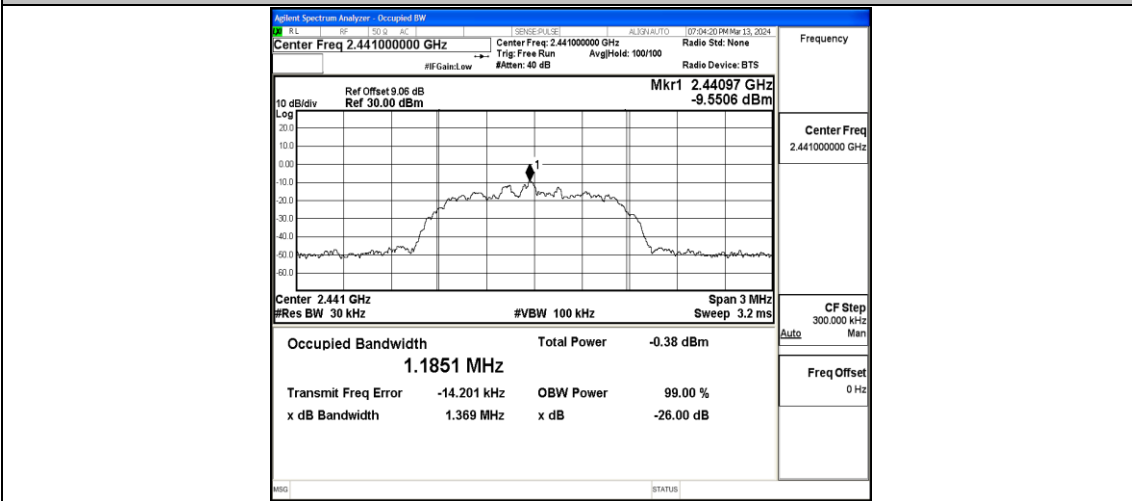
DH5-Ant1-2441



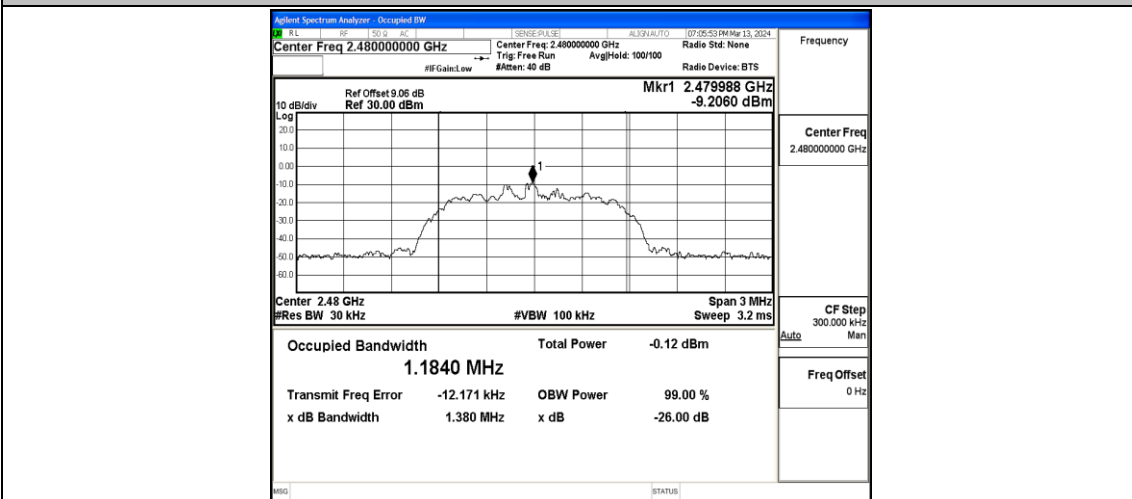
DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



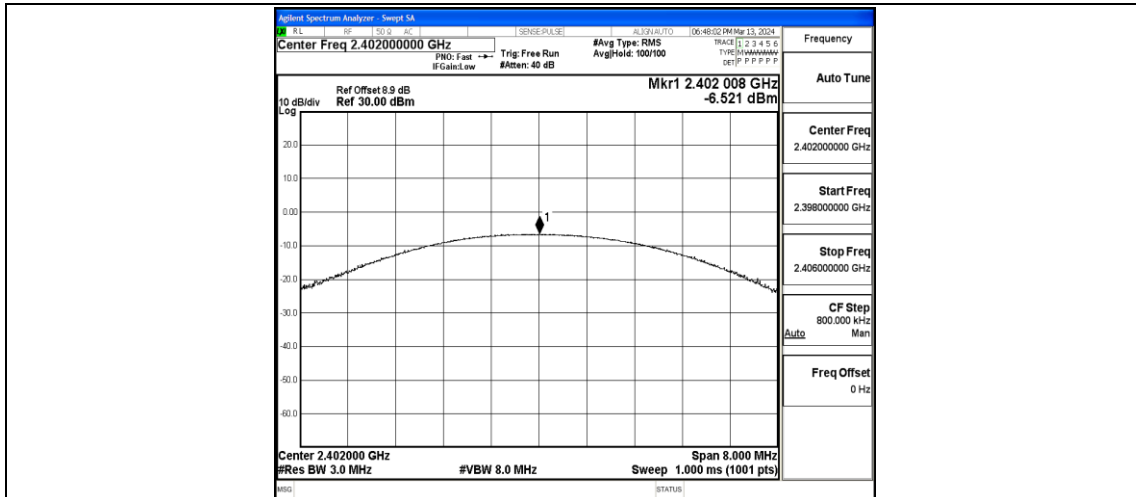
2DH5-Ant1-2480

Appendix C: Maximum peak conducted output power

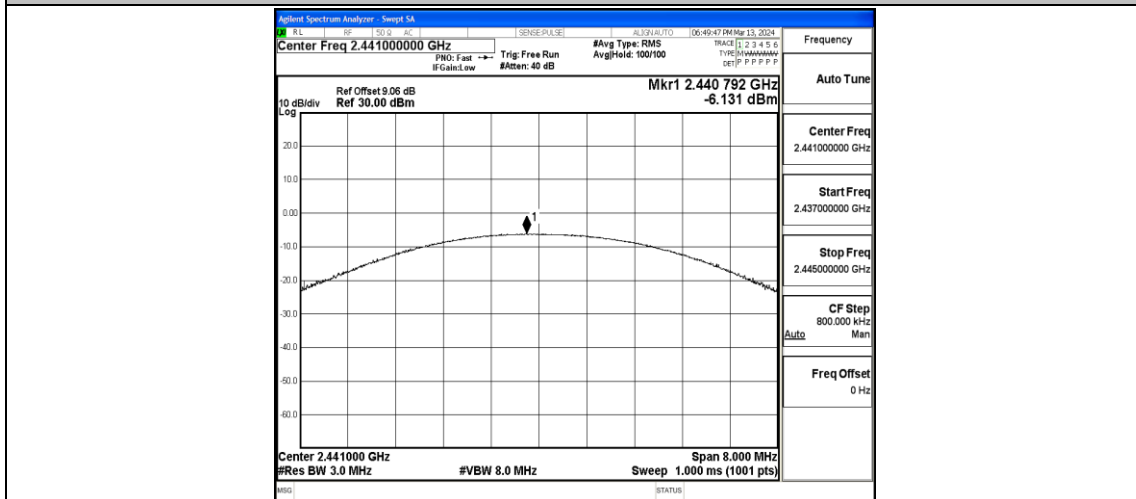
Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-6.52	≤30	PASS
DH5	Ant1	2441	-6.13	≤30	PASS
DH5	Ant1	2480	-5.88	≤30	PASS
2DH5	Ant1	2402	-5.76	≤20.97	PASS
2DH5	Ant1	2441	-5.43	≤20.97	PASS
2DH5	Ant1	2480	-5.36	≤20.97	PASS

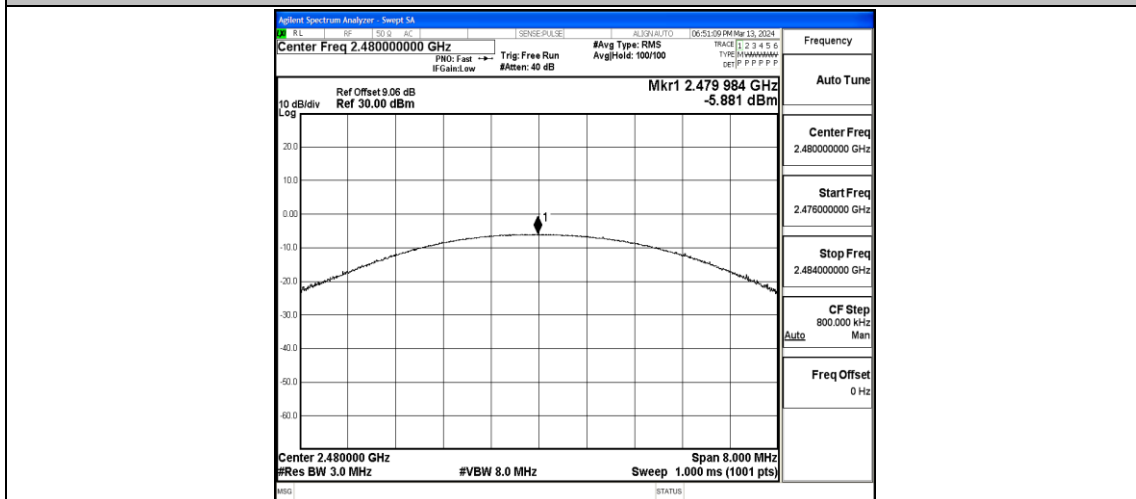
Test Graphs



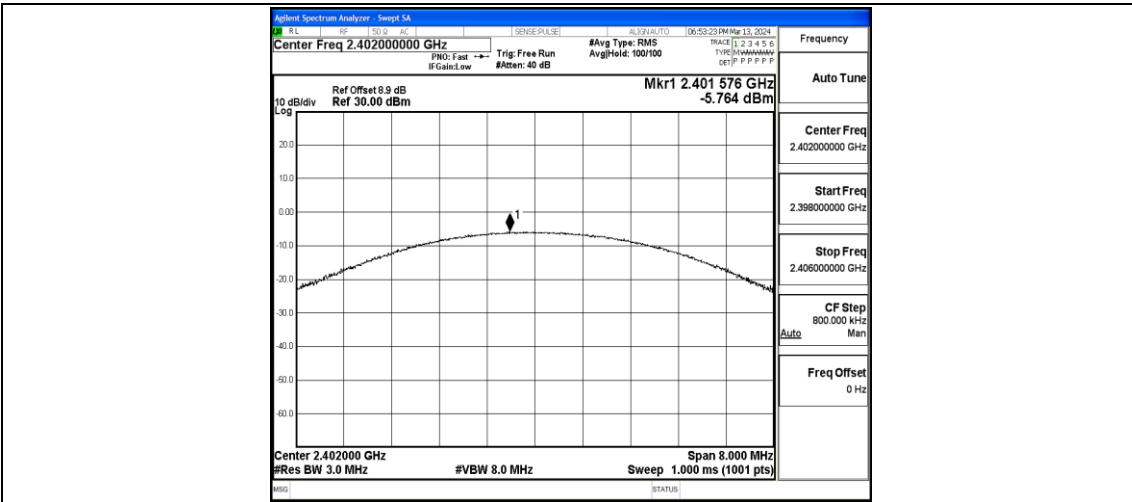
DH5-Ant1-2402-PASS



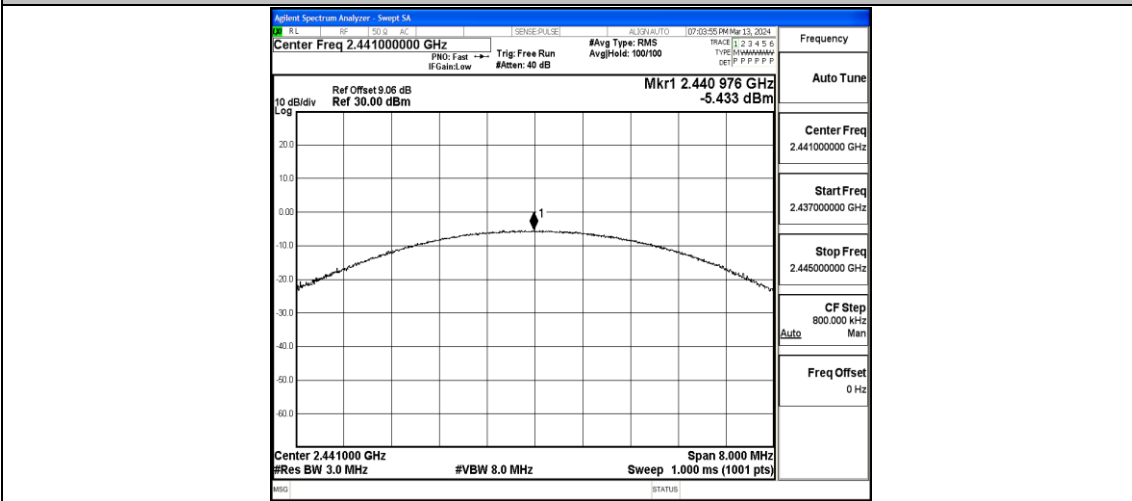
DH5-Ant1-2441-PASS



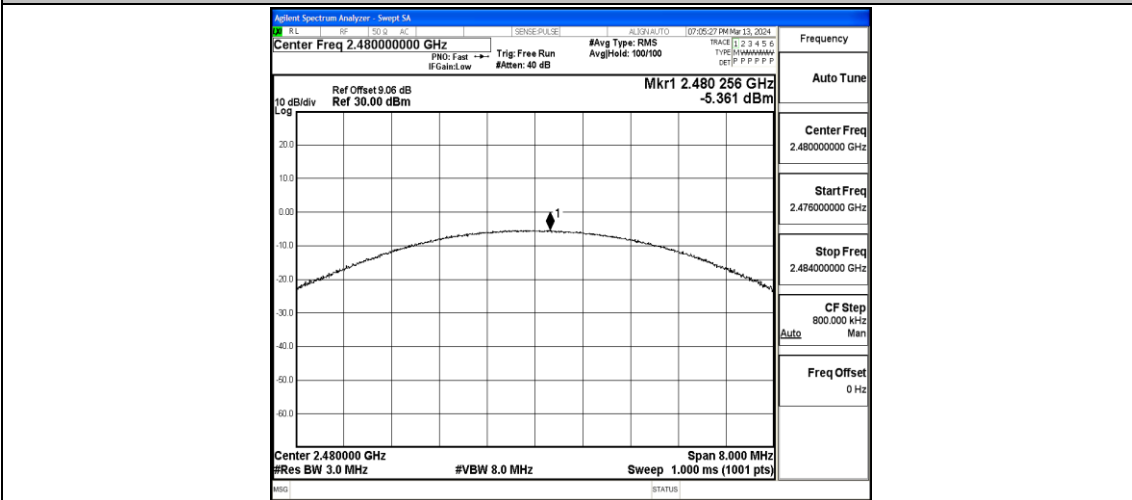
DH5-Ant1-2480-PASS



2DH5-Ant1-2402-PASS



2DH5-Ant1-2441-PASS



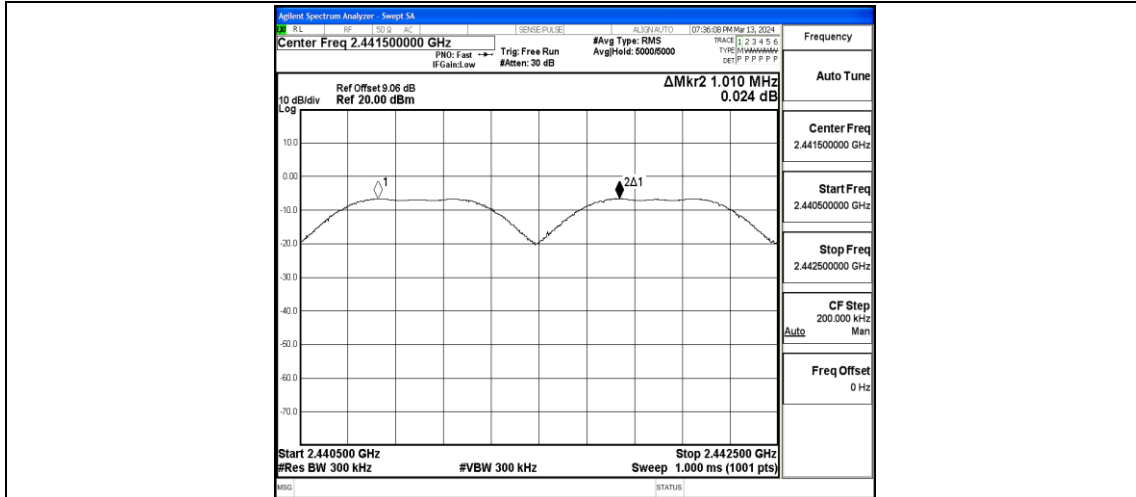
2DH5-Ant1-2480-PASS

Appendix D: Carrier frequency separation

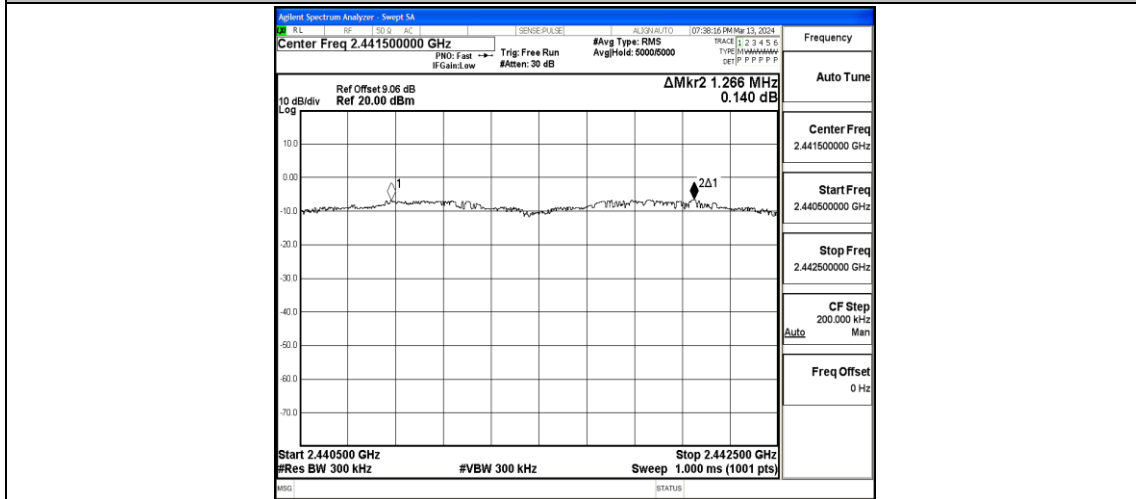
Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.01	≥ 0.954	PASS
2DH5	Ant1	Hop	1.266	≥ 0.892	PASS

Test Graphs



DH5-Ant1-Hop-PASS



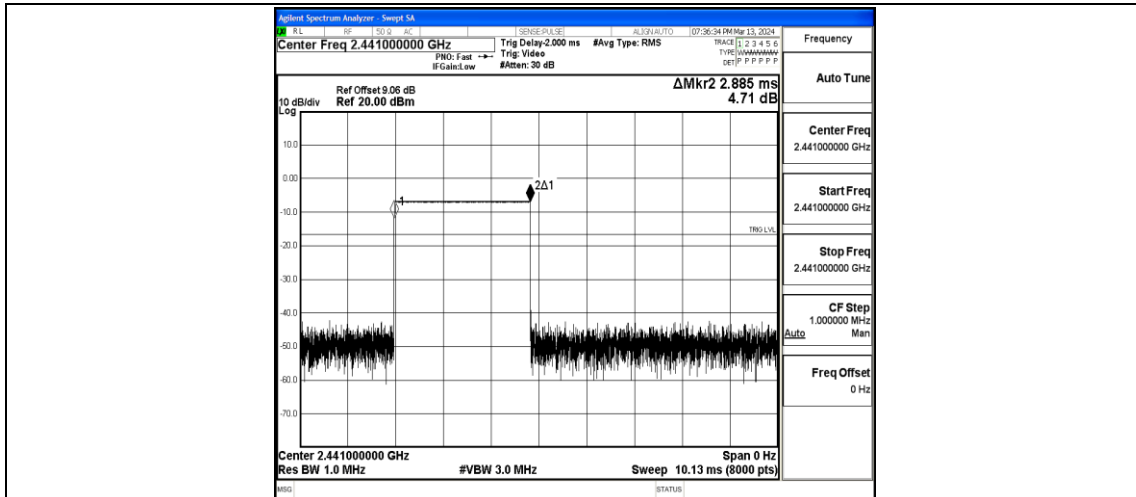
2DH5-Ant1-Hop-PASS

Appendix E: Time of occupancy

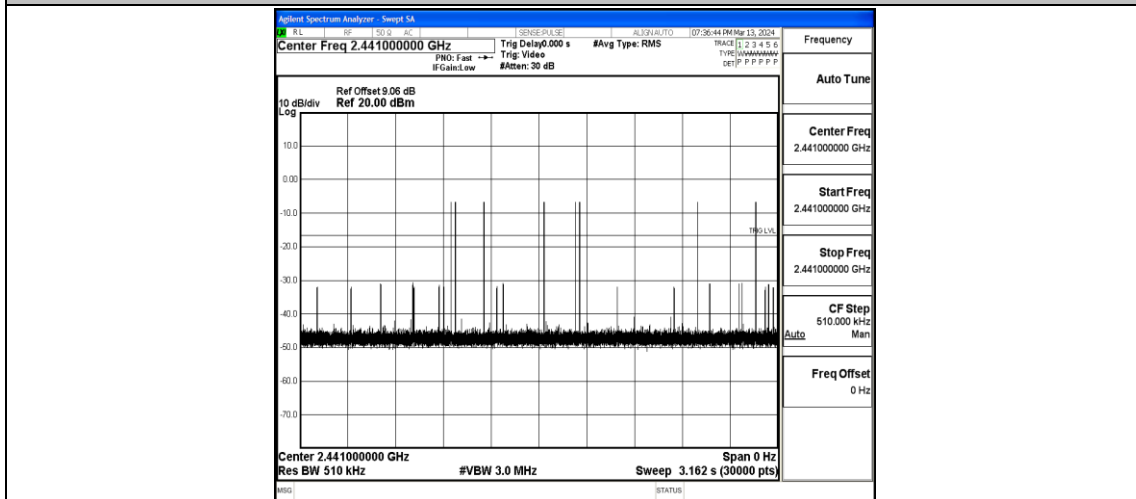
Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.885	90	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.891	70	0.202	≤0.4	PASS

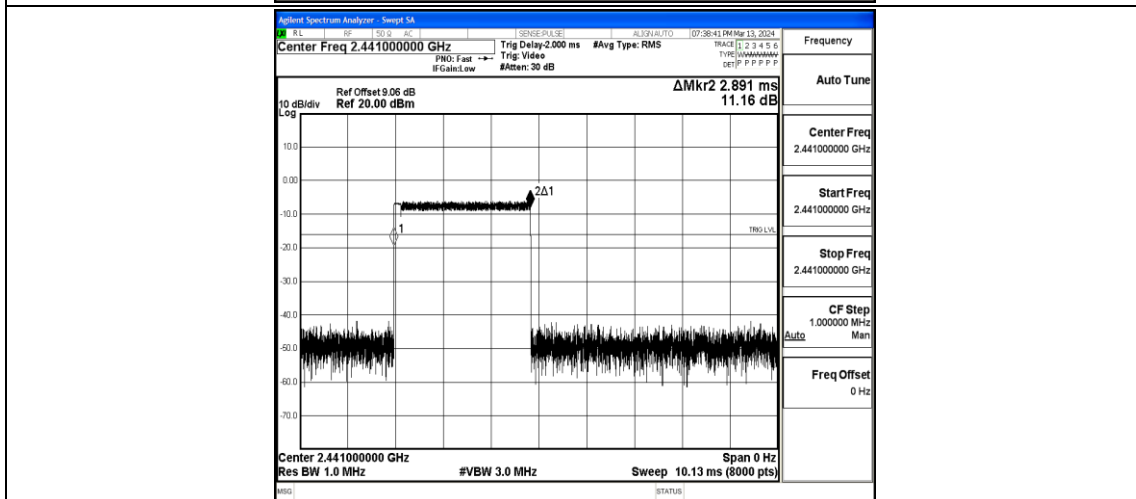
Test Graphs



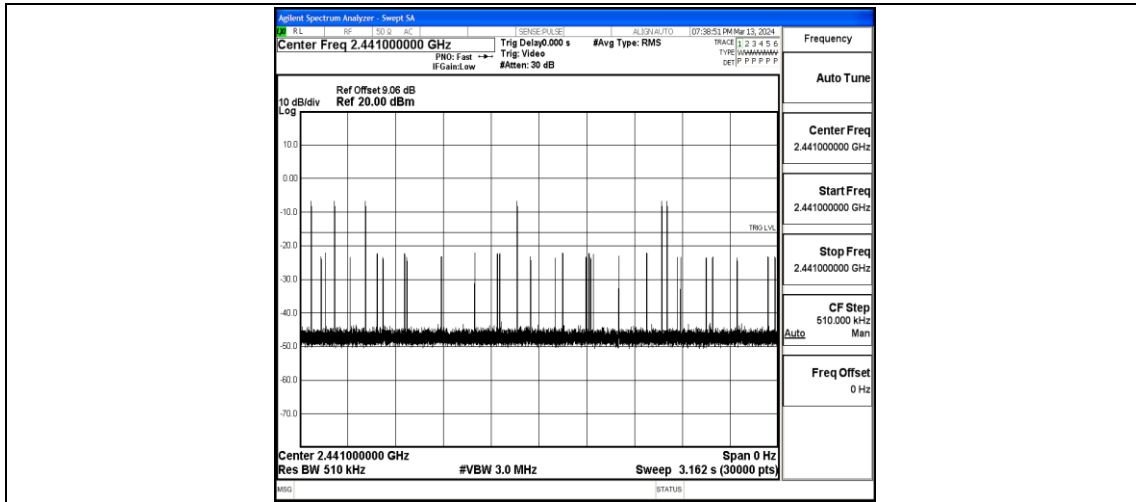
DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS

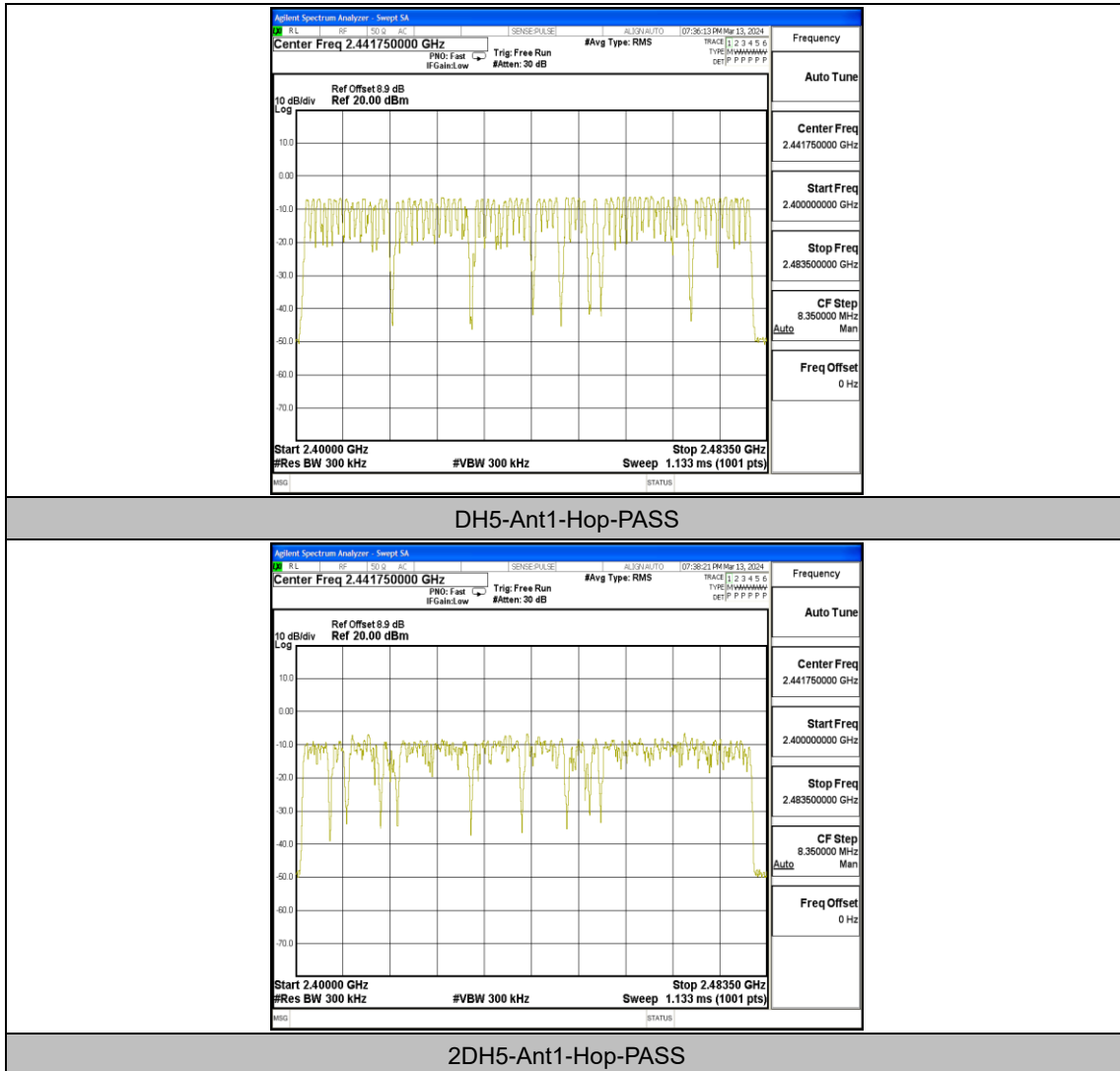


Appendix F: Number of hopping channels

Test Result

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

Test Graphs

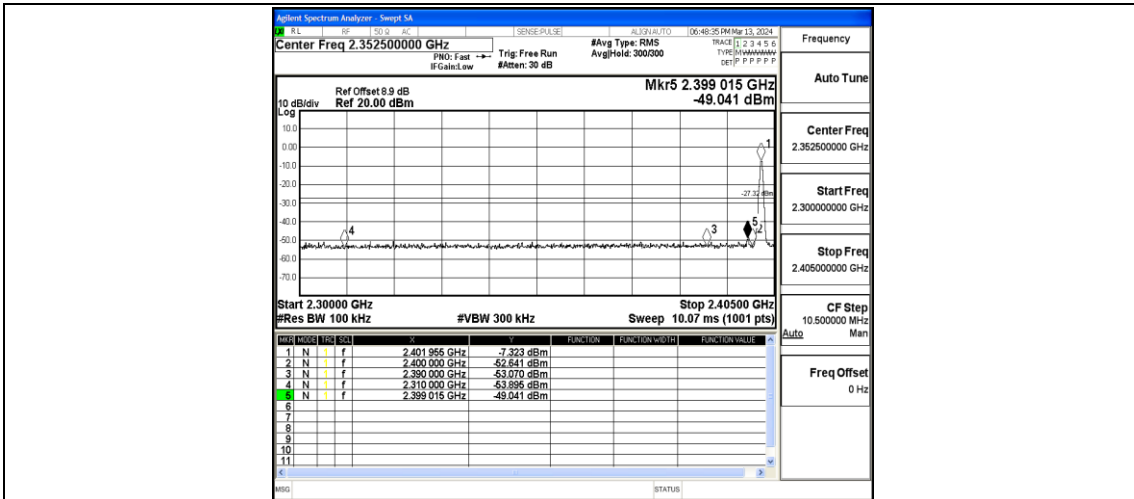


Appendix G: Band edge measurements

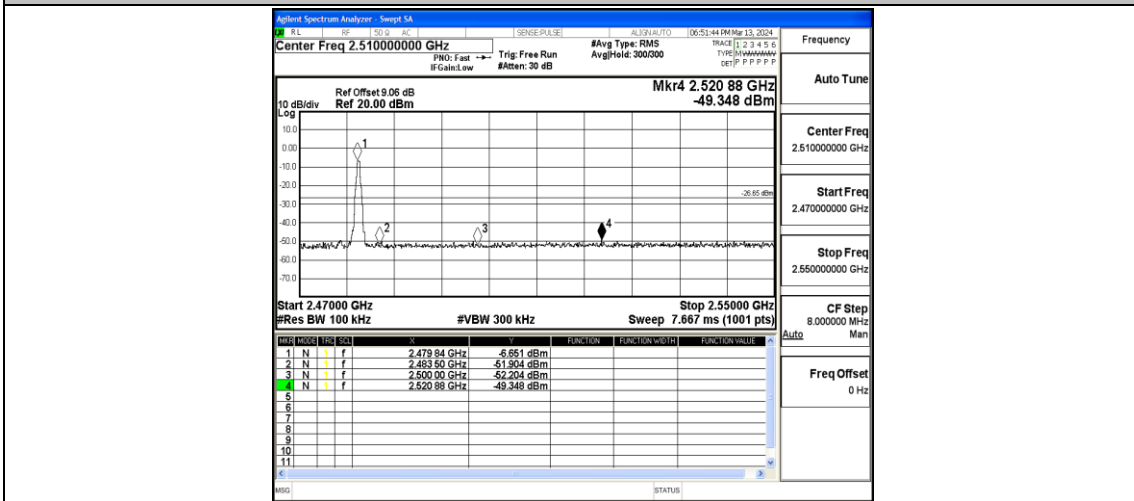
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-7.32	-49.04	≤-27.32	PASS
DH5	Ant1	High	2480	-6.65	-49.35	≤-26.65	PASS
DH5	Ant1	Low	Hop_2402	-7.29	-50.53	≤-27.29	PASS
DH5	Ant1	High	Hop_2480	-6.91	-49.47	≤-26.91	PASS
2DH5	Ant1	Low	2402	-7.20	-50.12	≤-27.2	PASS
2DH5	Ant1	High	2480	-6.99	-49.79	≤-26.99	PASS
2DH5	Ant1	Low	Hop_2402	-7.38	-50.39	≤-27.38	PASS
2DH5	Ant1	High	Hop_2480	-10.24	-49.16	≤-30.24	PASS

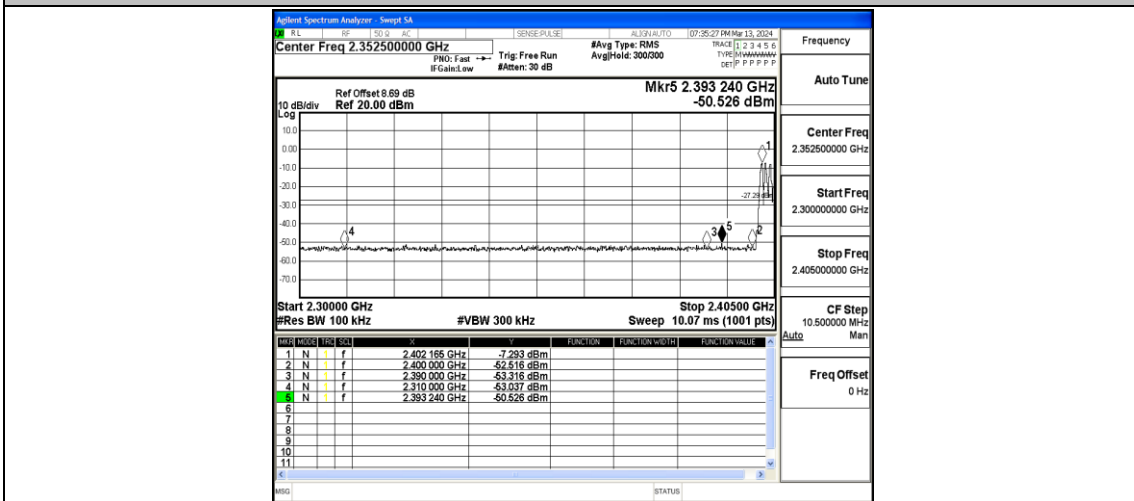
Test Graphs



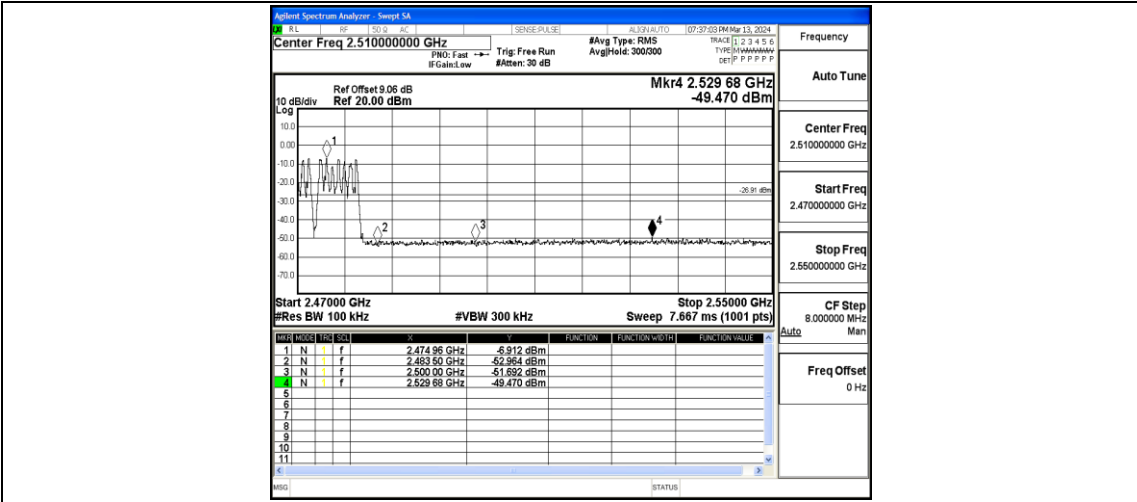
DH5-Ant1-2402-PASS



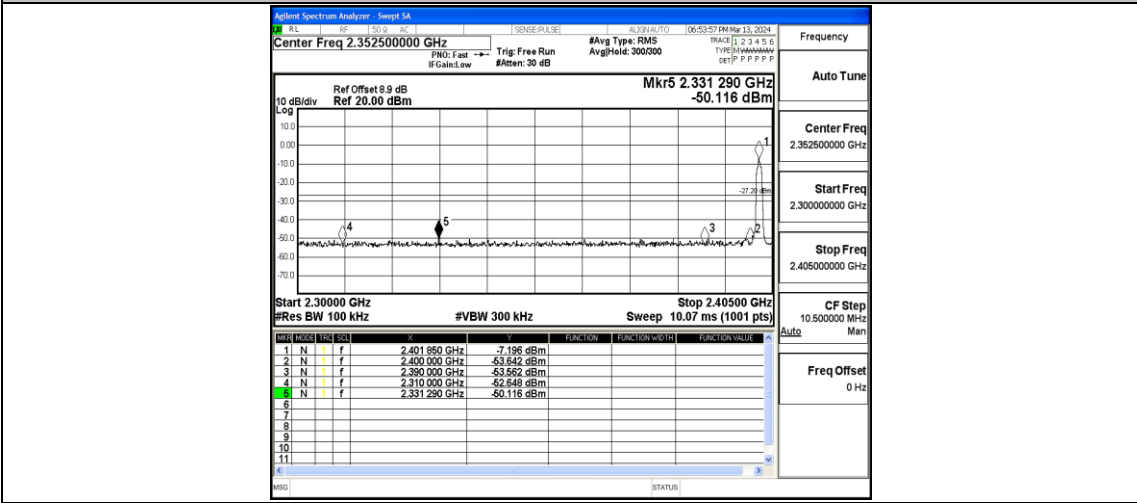
DH5-Ant1-2480-PASS



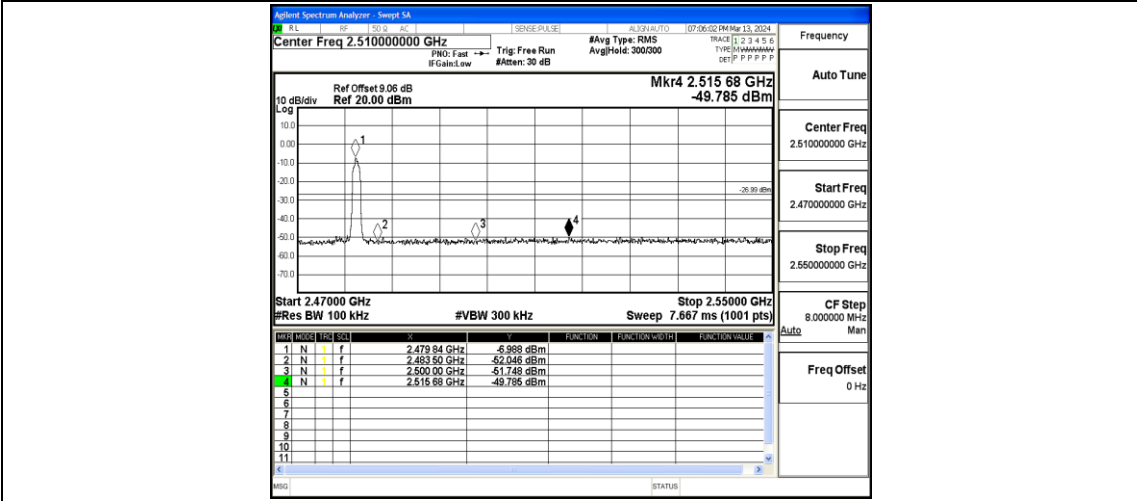
DH5-Ant1-Hop_2402-PASS



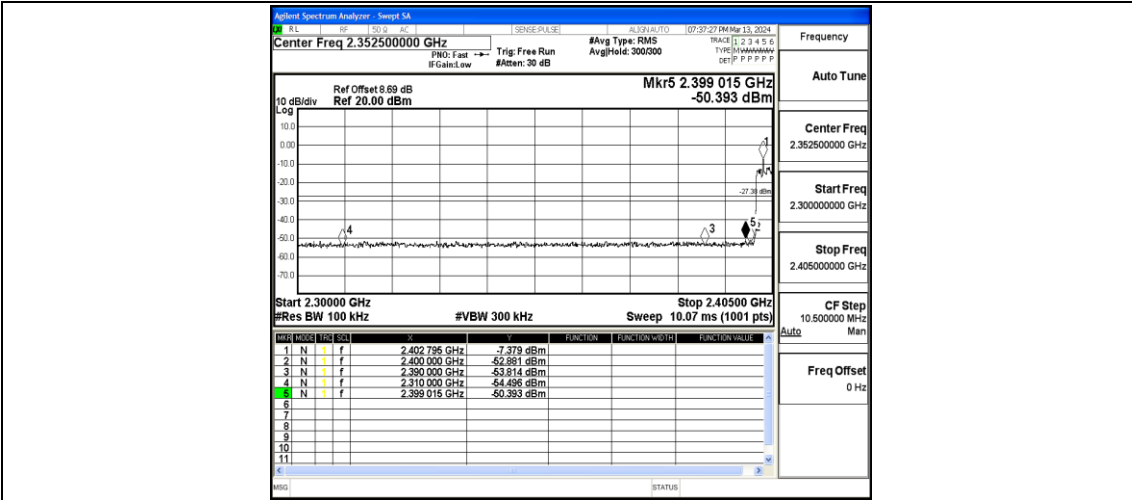
DH5-Ant1-Hop_2480-PASS



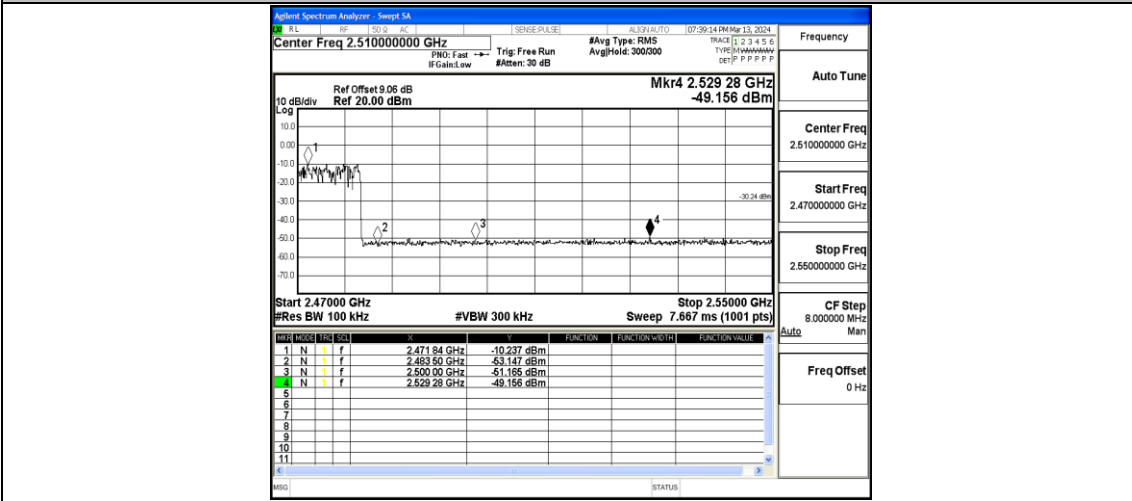
2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS



2DH5-Ant1-Hop_2402-PASS



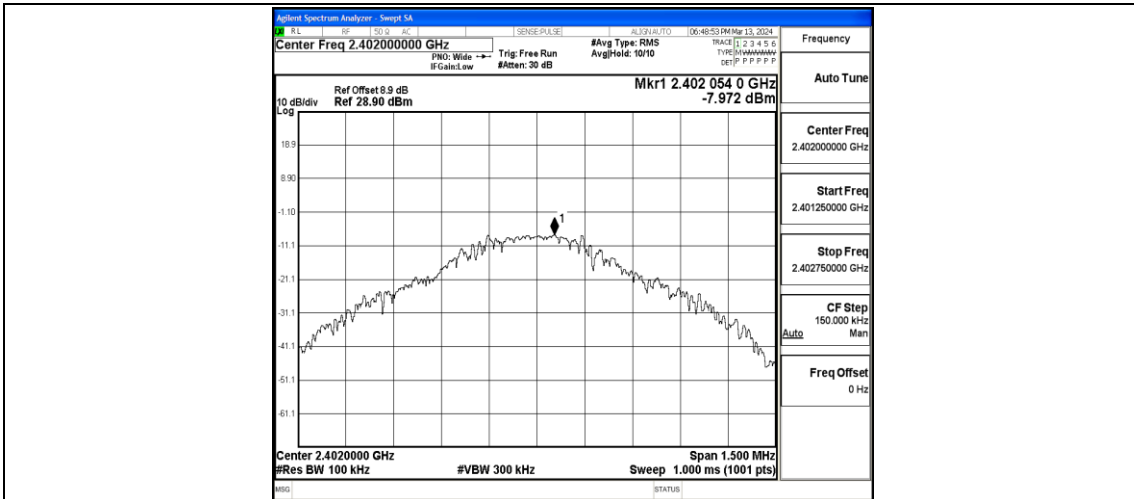
2DH5-Ant1-Hop_2480-PASS

Appendix H: Conducted Spurious Emission

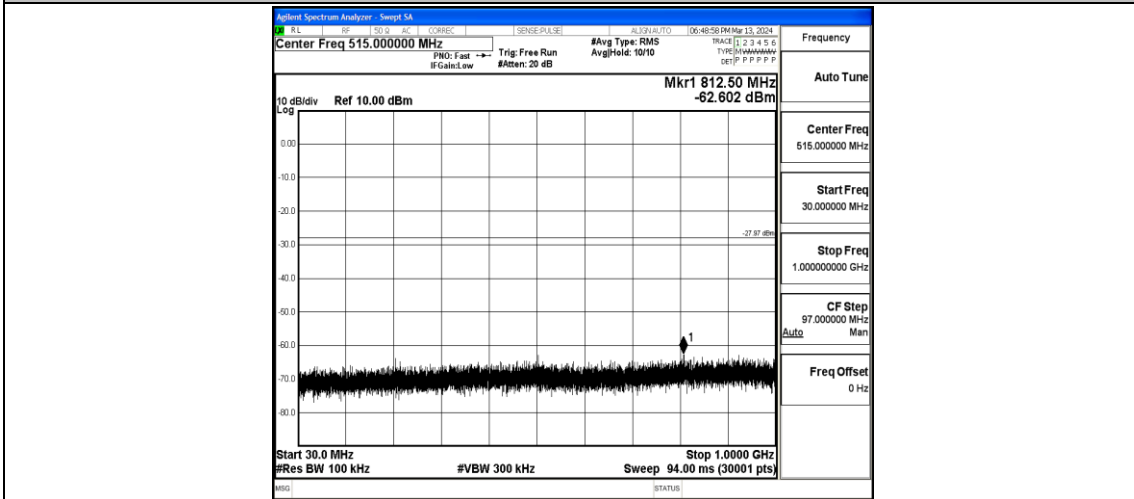
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-7.97	-7.97	---	PASS
DH5	Ant1	2402	30~1000	-7.97	-62.6	≤-27.97	PASS
DH5	Ant1	2402	1000~26500	-7.97	-50.44	≤-27.97	PASS
DH5	Ant1	2441	0~Reference	-7.50	-7.50	---	PASS
DH5	Ant1	2441	30~1000	-7.50	-62.99	≤-27.5	PASS
DH5	Ant1	2441	1000~26500	-7.50	-50.77	≤-27.5	PASS
DH5	Ant1	2480	0~Reference	-7.31	-7.31	---	PASS
DH5	Ant1	2480	30~1000	-7.31	-62.37	≤-27.31	PASS
DH5	Ant1	2480	1000~26500	-7.31	-50.91	≤-27.31	PASS
2DH5	Ant1	2402	0~Reference	-7.22	-7.22	---	PASS
2DH5	Ant1	2402	30~1000	-7.22	-62	≤-27.22	PASS
2DH5	Ant1	2402	1000~26500	-7.22	-50.1	≤-27.22	PASS
2DH5	Ant1	2441	0~Reference	-8.37	-8.37	---	PASS
2DH5	Ant1	2441	30~1000	-8.37	-63.09	≤-28.37	PASS
2DH5	Ant1	2441	1000~26500	-8.37	-50.43	≤-28.37	PASS
2DH5	Ant1	2480	0~Reference	-10.07	-10.07	---	PASS
2DH5	Ant1	2480	30~1000	-10.07	-61.9	≤-30.07	PASS
2DH5	Ant1	2480	1000~26500	-10.07	-51.05	≤-30.07	PASS

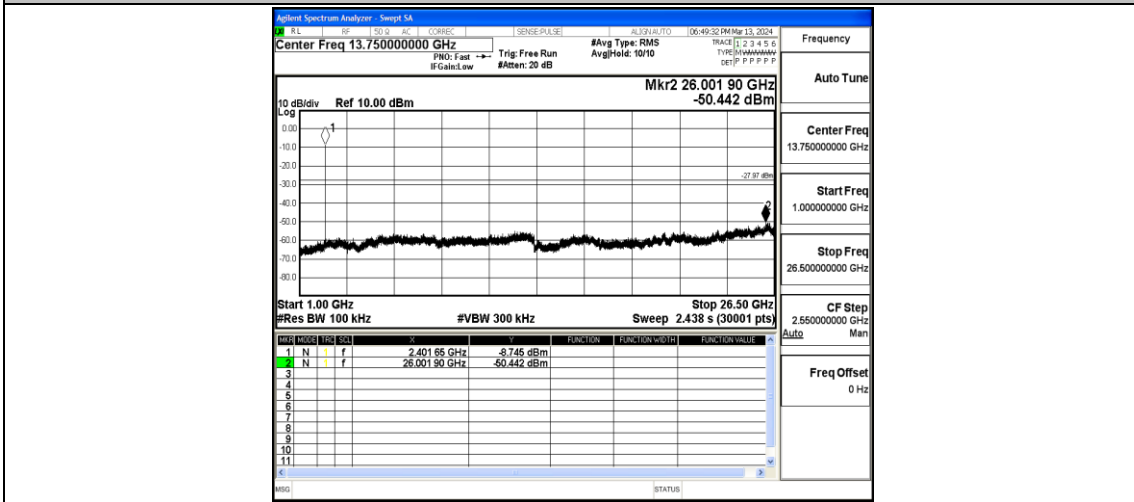
Test Graphs



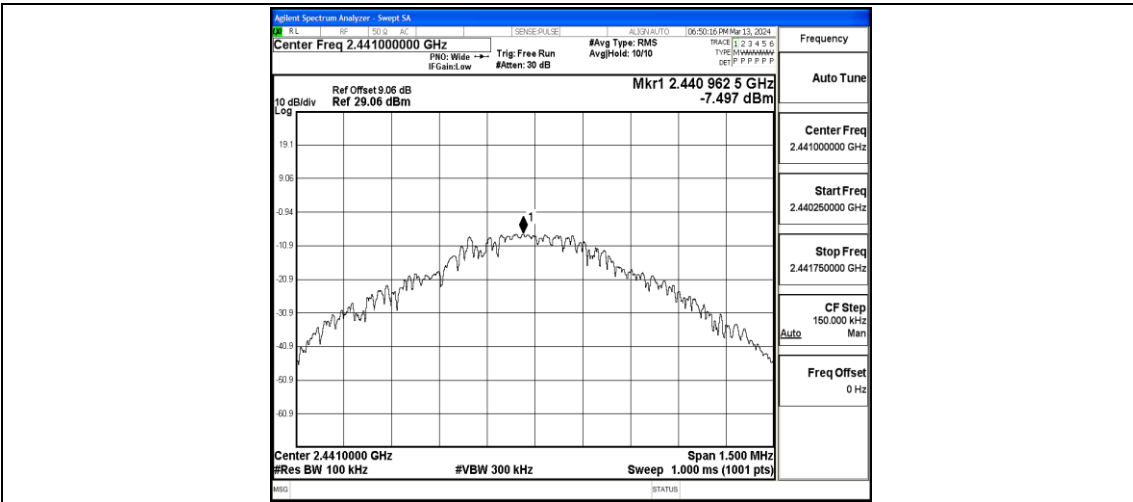
DH5-Ant1-2402-0~Reference-PASS



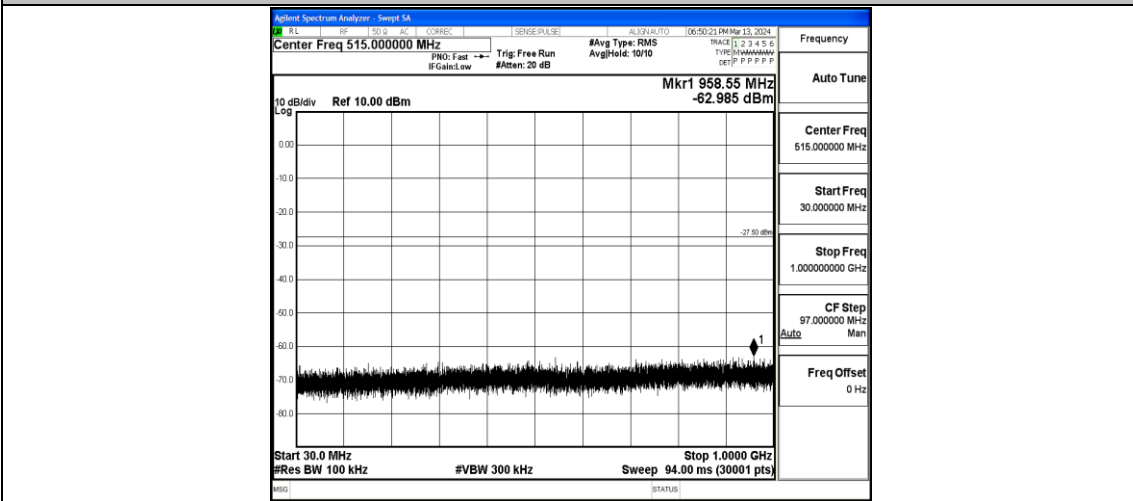
DH5-Ant1-2402-30~1000-PASS



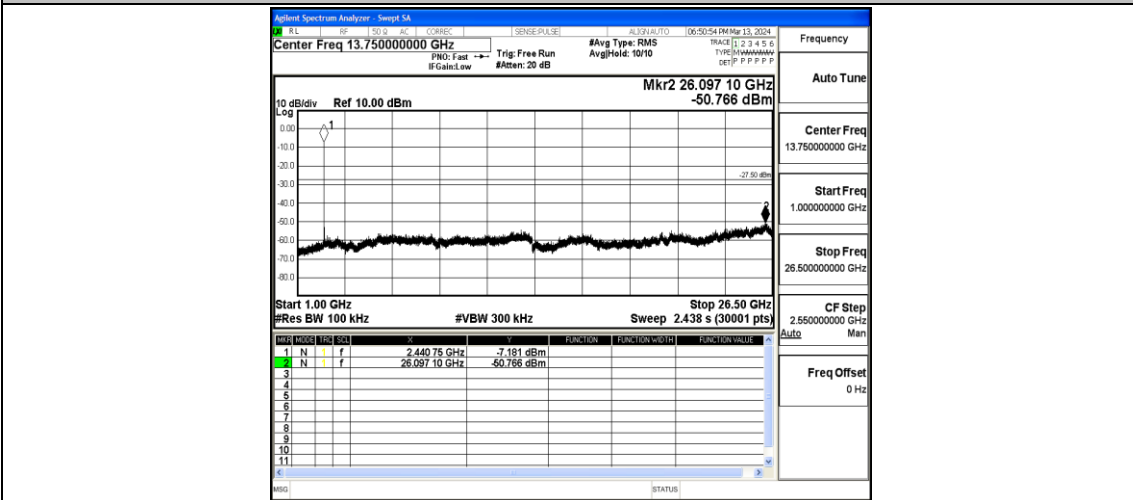
DH5-Ant1-2402-1000~26500-PASS



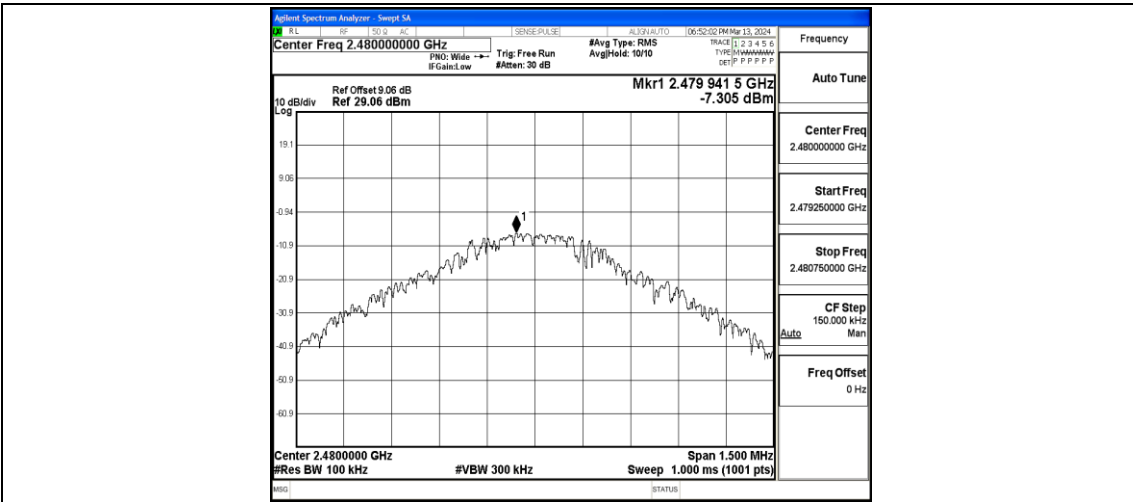
DH5-Ant1-2441-0~Reference-PASS



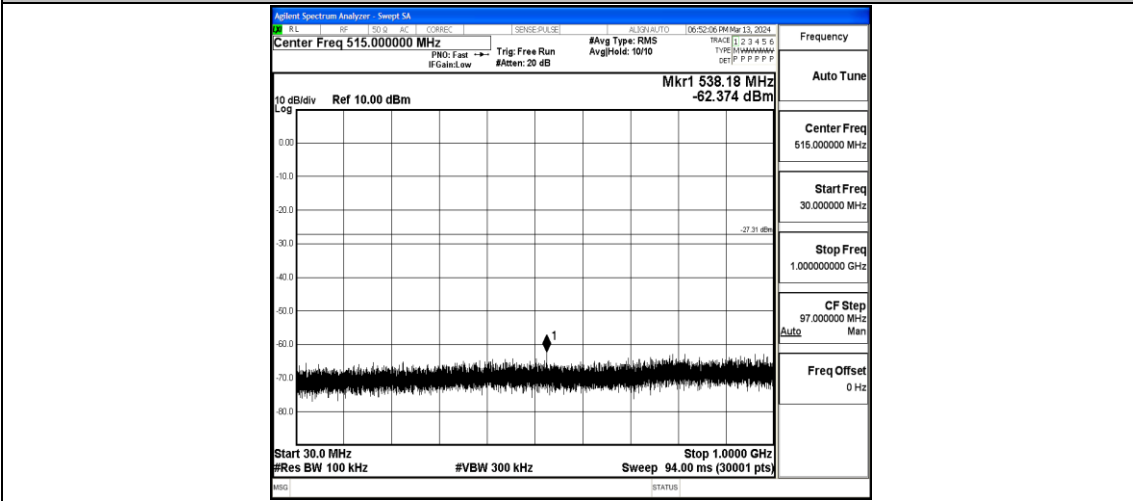
DH5-Ant1-2441-30~1000-PASS



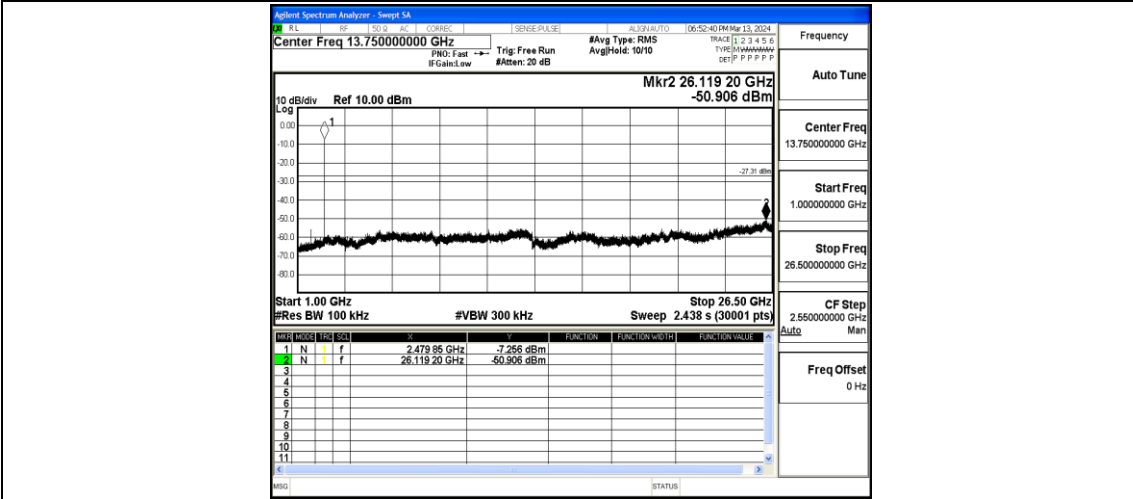
DH5-Ant1-2441-1000~26500-PASS



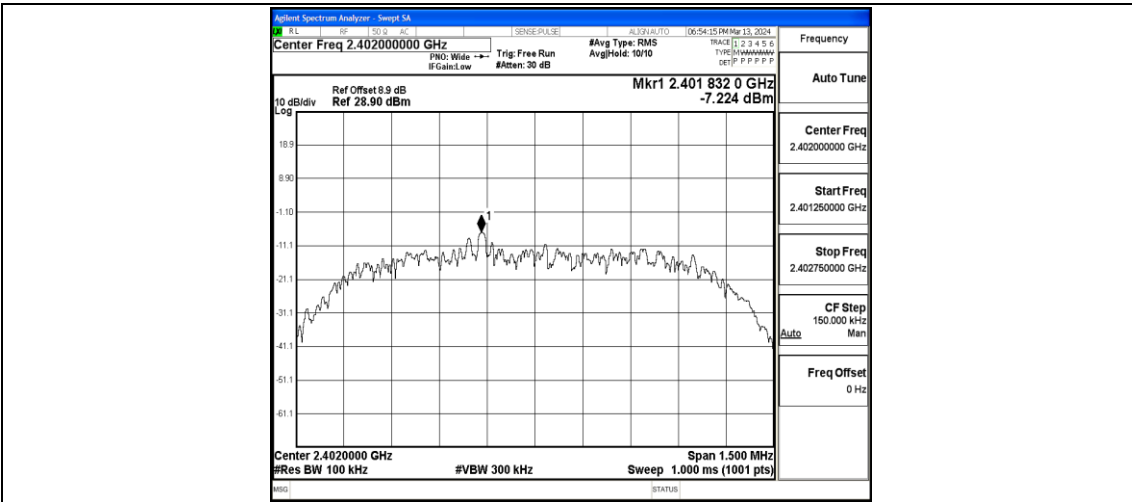
DH5-Ant1-2480-0~Reference-PASS



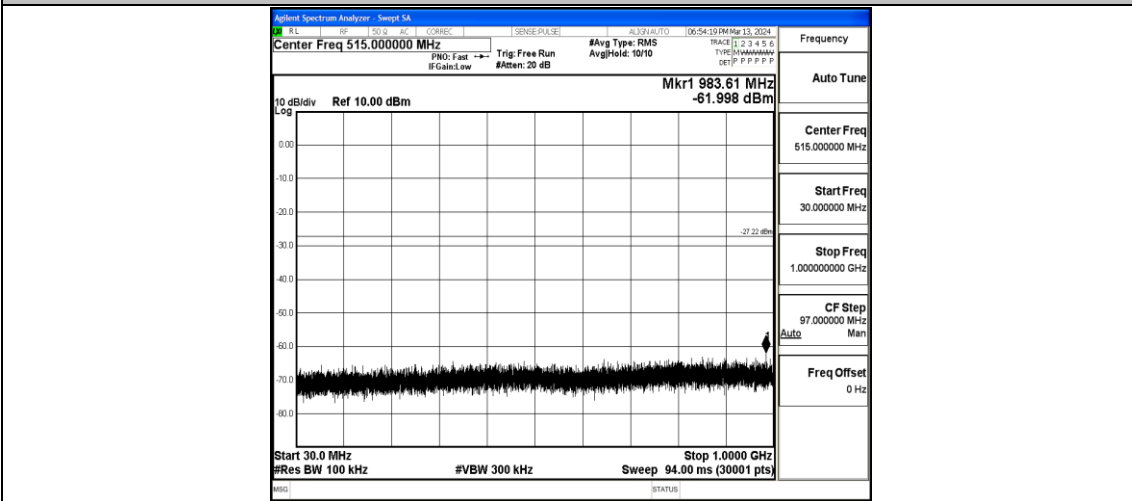
DH5-Ant1-2480-30~1000-PASS



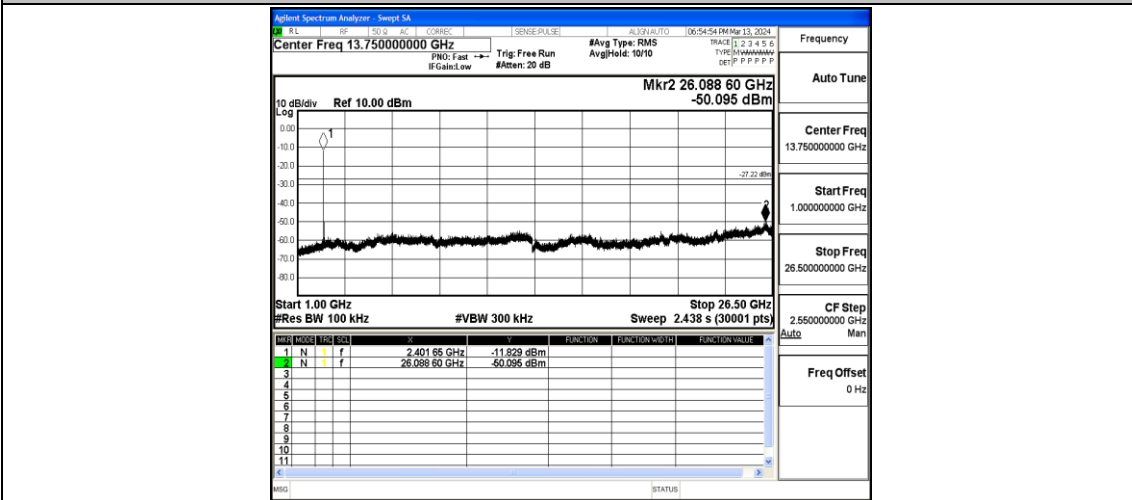
DH5-Ant1-2480-1000~26500-PASS



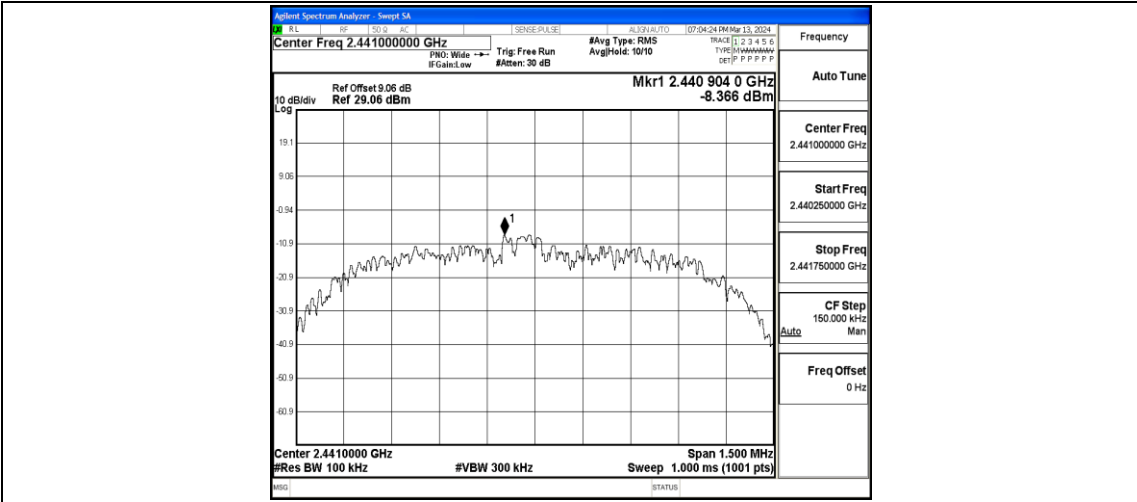
2DH5-Ant1-2402-0~Reference-PASS



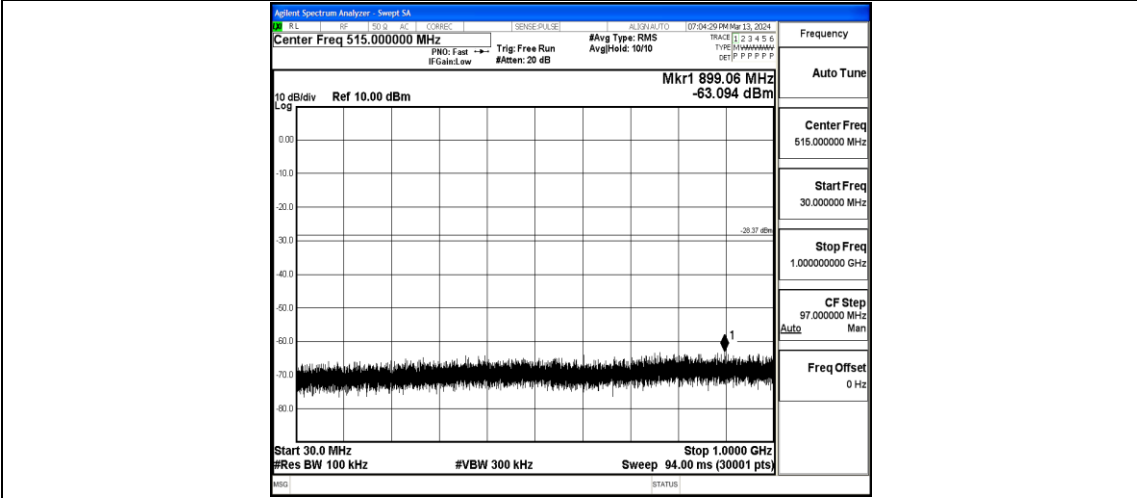
2DH5-Ant1-2402-30~1000-PASS



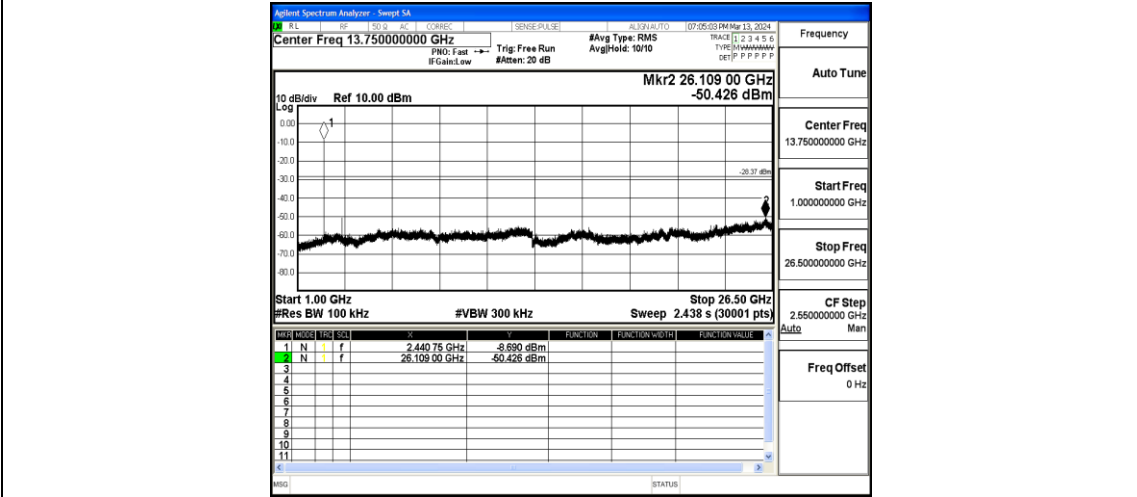
2DH5-Ant1-2402-1000~26500-PASS



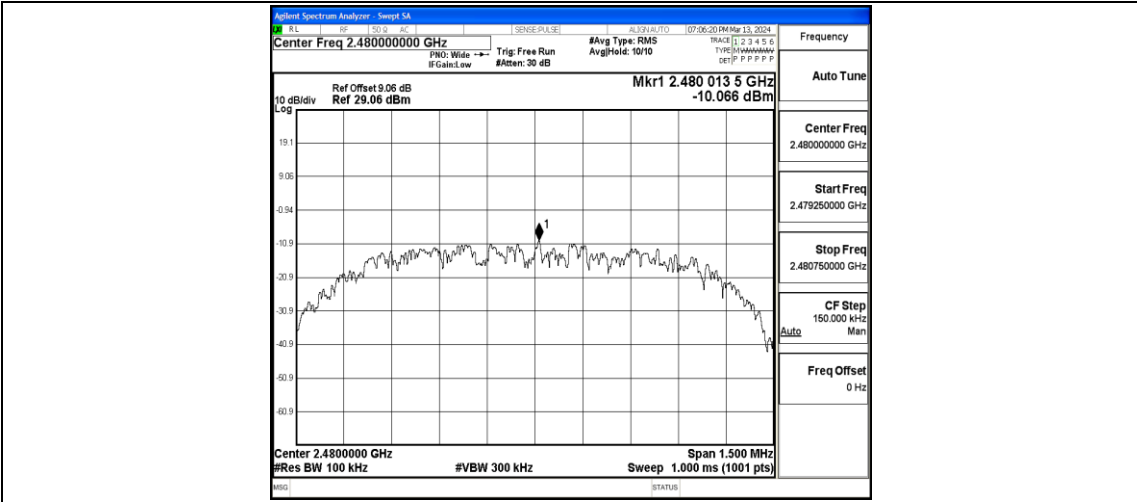
2DH5-Ant1-2441-0~Reference-PASS



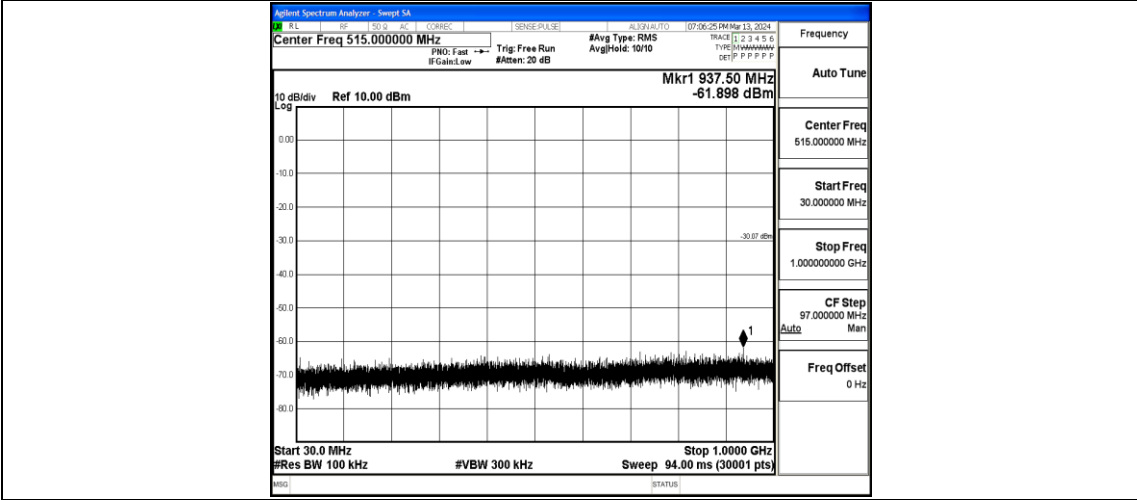
2DH5-Ant1-2441-30~1000-PASS



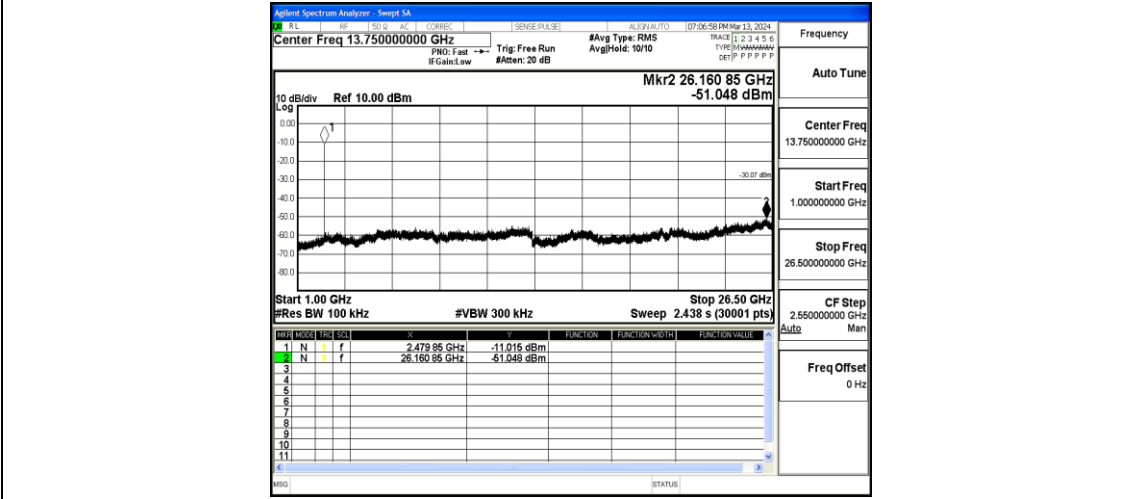
2DH5-Ant1-2441-1000~26500-PASS



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



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



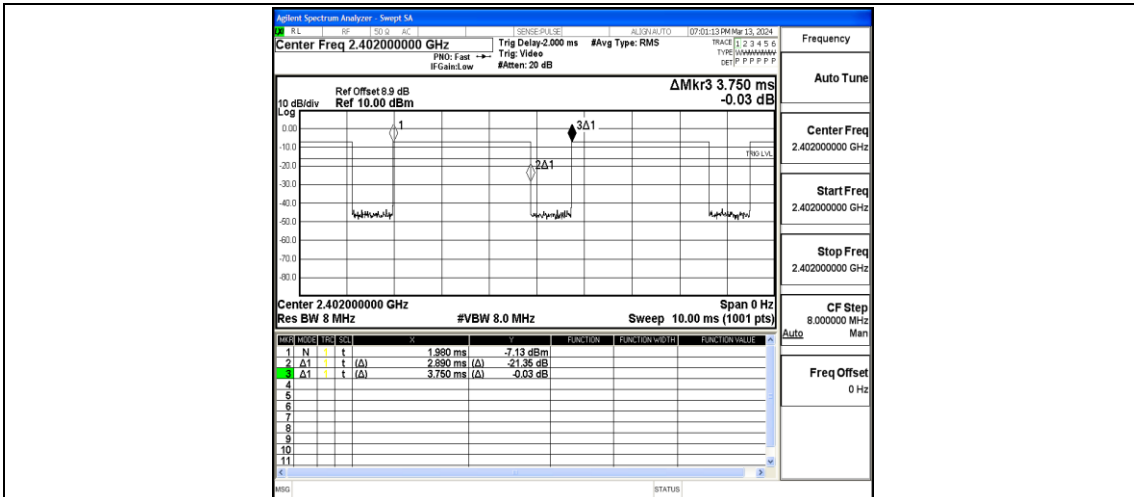
2DH5-Ant1-2480-1000~26500-PASS

Appendix I: Duty Cycle

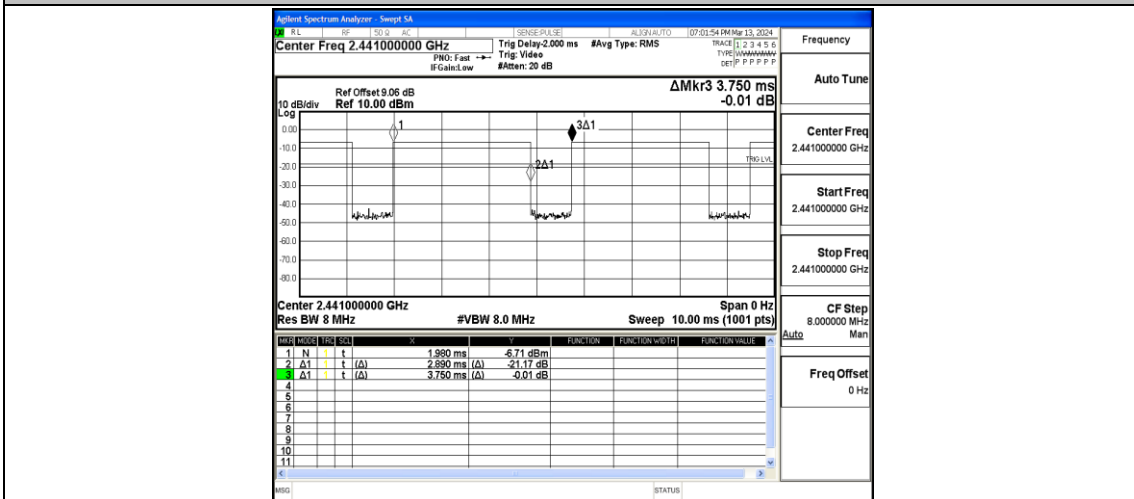
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.89	3.75	77.07	1.13
DH5	Ant1	2441	2.89	3.75	77.07	1.13
DH5	Ant1	2480	2.89	3.75	77.07	1.13
2DH5	Ant1	2402	2.90	3.75	77.33	1.12
2DH5	Ant1	2441	2.90	3.75	77.33	1.12
2DH5	Ant1	2480	2.89	3.75	77.07	1.13

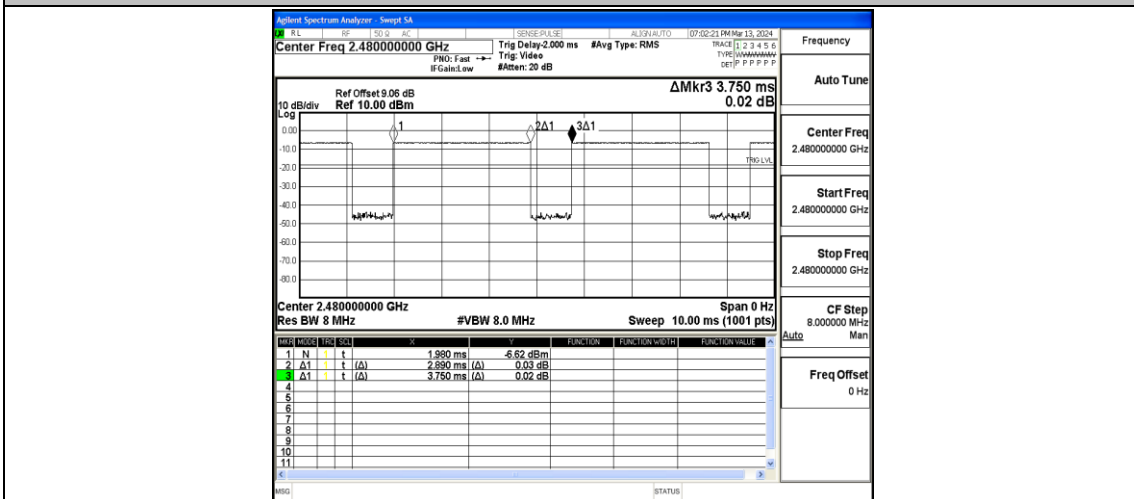
Test Graphs



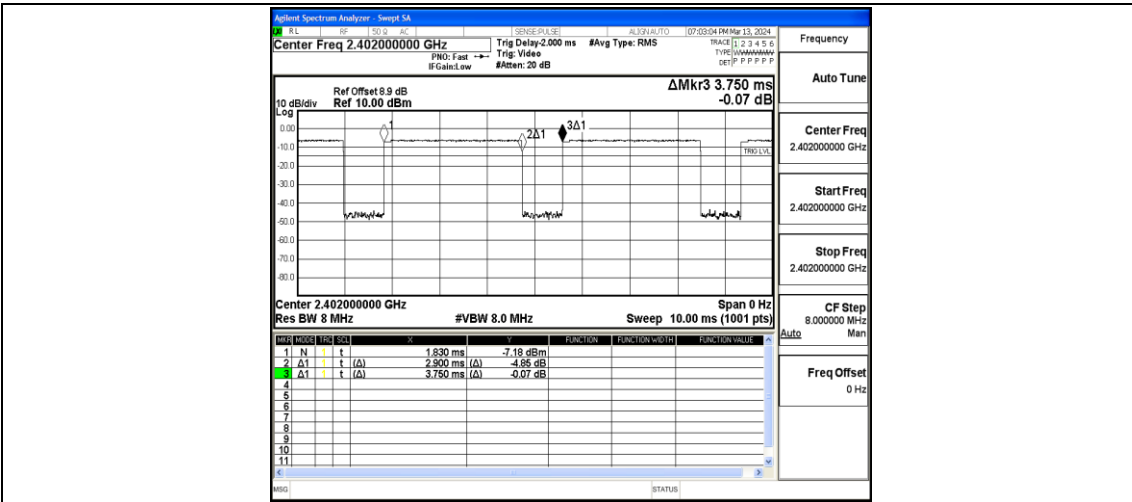
NTNV-DH5-Ant1-2402



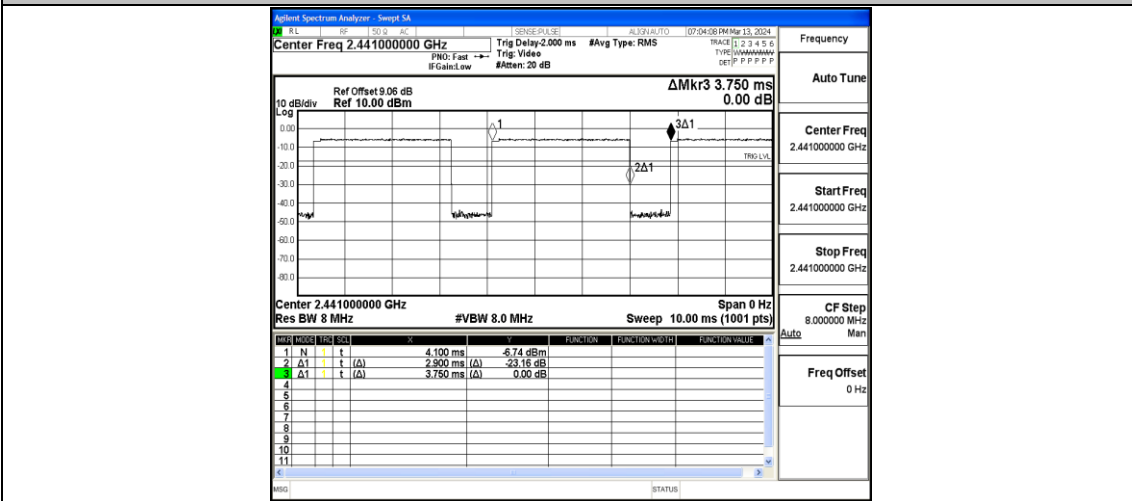
NTNV-DH5-Ant1-2441



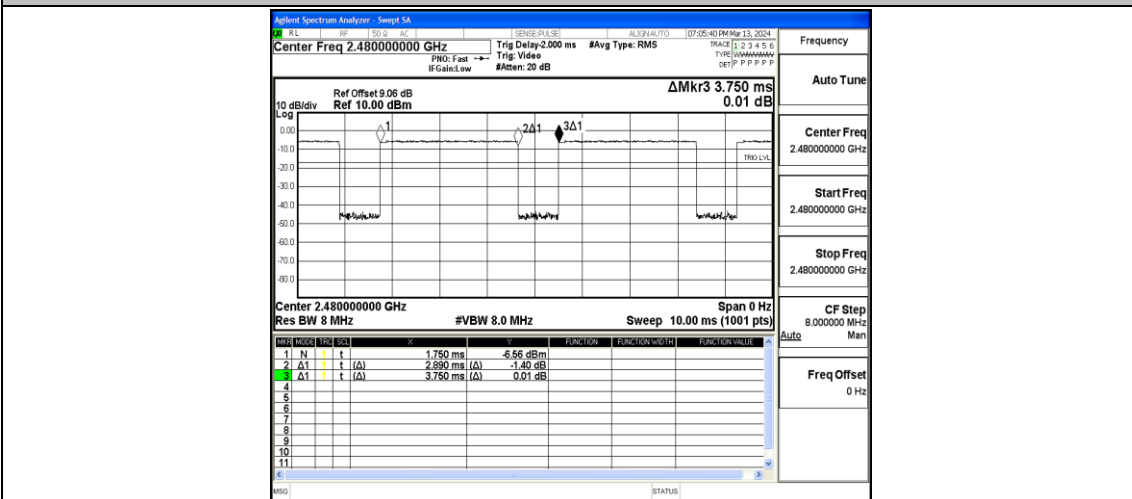
NTNV-DH5-Ant1-2480



NTVN-2DH5-Ant1-2402



NTVN-2DH5-Ant1-2441



NTVN-2DH5-Ant1-2480

Appendix J: Emissions in Restricted Bands

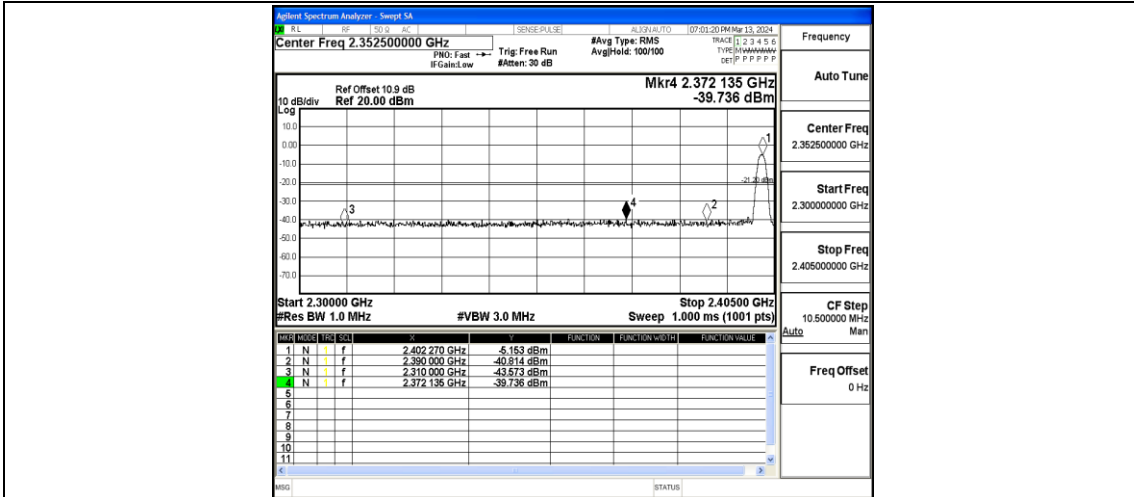
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	Peak	2390.000	-40.81	≤-21.20	54.39	≤74	PASS
DH5	Ant1	Low	2402	Peak	2310.000	-43.57	≤-21.20	51.63	≤74	PASS
DH5	Ant1	Low	2402	Peak	2372.135	-39.74	≤-21.20	55.46	≤74	PASS
DH5	Ant1	Low	2402	AV	2390.000	-48.44	≤-41.20	46.76	≤54	PASS
DH5	Ant1	Low	2402	AV	2310.000	-49.13	≤-41.20	46.07	≤54	PASS
DH5	Ant1	Low	2402	AV	2385.470	-48.03	≤-41.20	47.17	≤54	PASS
DH5	Ant1	High	2480	Peak	2483.500	-42.58	≤-21.20	52.62	≤74	PASS
DH5	Ant1	High	2480	Peak	2500.000	-40.47	≤-21.20	54.73	≤74	PASS
DH5	Ant1	High	2480	Peak	2487.280	-39.21	≤-21.20	55.99	≤74	PASS
DH5	Ant1	High	2480	AV	2483.500	-48.24	≤-41.20	46.96	≤54	PASS
DH5	Ant1	High	2480	AV	2500.000	-48.45	≤-41.20	46.75	≤54	PASS
DH5	Ant1	High	2480	AV	2495.200	-47.65	≤-41.20	47.55	≤54	PASS
2DH5	Ant1	Low	2402	Peak	2390.000	-41.13	≤-21.20	54.07	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2310.000	-42.72	≤-21.20	52.48	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2381.375	-39.75	≤-21.20	55.45	≤74	PASS
2DH5	Ant1	Low	2402	AV	2390.000	-49.11	≤-41.20	46.09	≤54	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.55	≤-41.20	45.65	≤54	PASS
2DH5	Ant1	Low	2402	AV	2375.915	-48.42	≤-41.20	46.78	≤54	PASS
2DH5	Ant1	High	2480	Peak	2483.500	-40.8	≤-21.20	54.40	≤74	PASS
2DH5	Ant1	High	2480	Peak	2500.000	-41.06	≤-21.20	54.14	≤74	PASS
2DH5	Ant1	High	2480	Peak	2498.800	-39.69	≤-21.20	55.51	≤74	PASS
2DH5	Ant1	High	2480	AV	2483.500	-48.03	≤-41.20	47.17	≤54	PASS
2DH5	Ant1	High	2480	AV	2500.000	-48.23	≤-41.20	46.97	≤54	PASS
2DH5	Ant1	High	2480	AV	2497.840	-47.74	≤-41.20	47.46	≤54	PASS

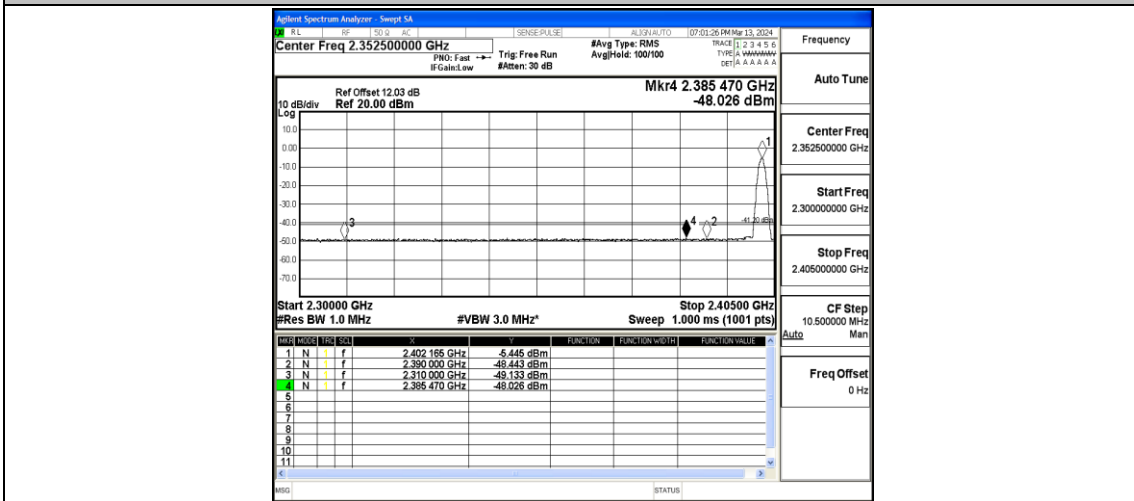
Note:

1. The Antenna Gain is compensated in the graph.
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.

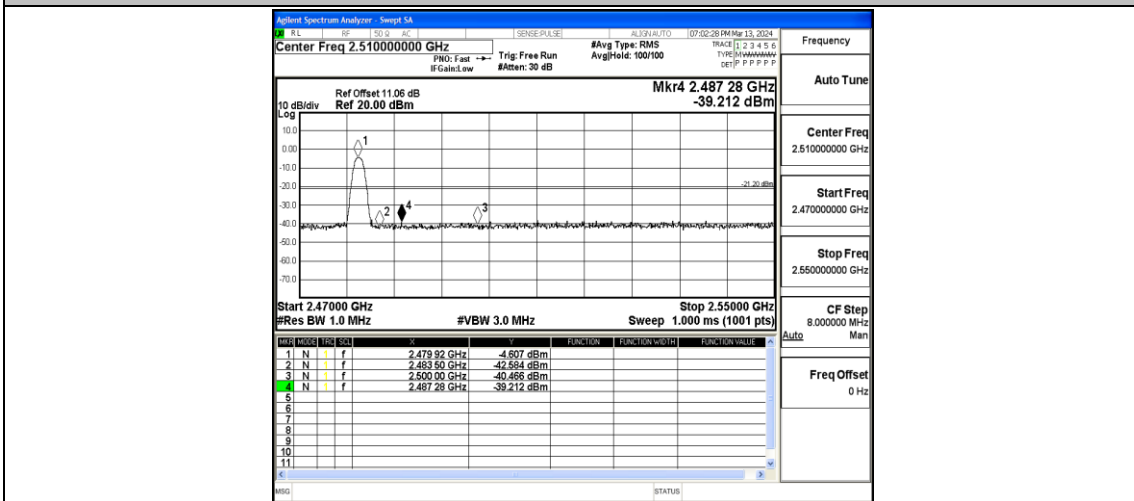
Test Graphs



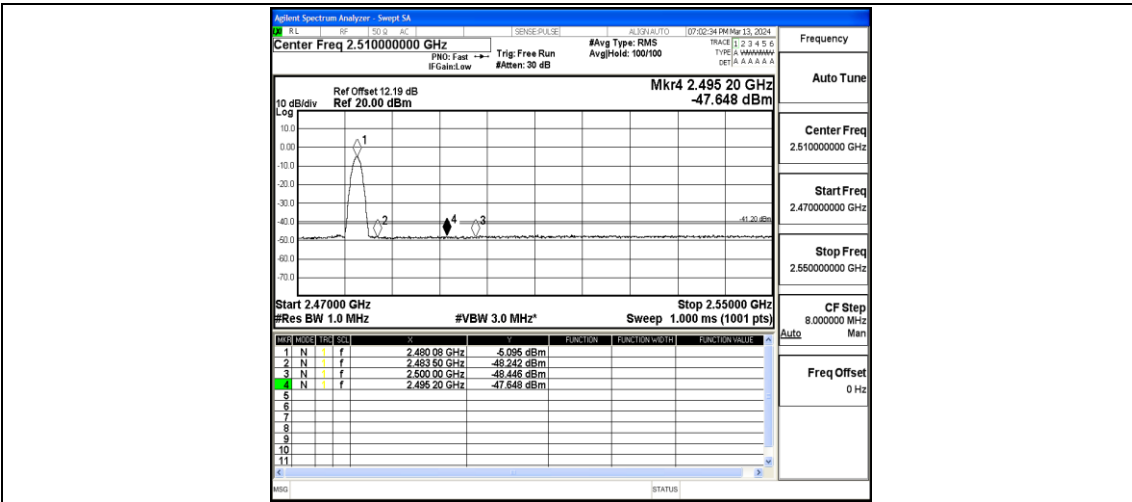
DH5-Ant1-2402-PASS



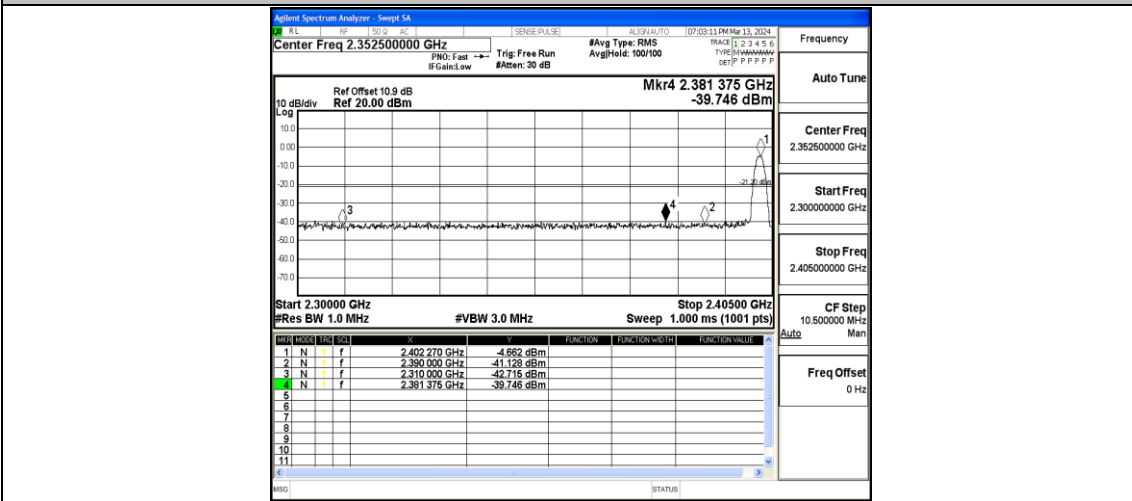
DH5-Ant1-2402-PASS



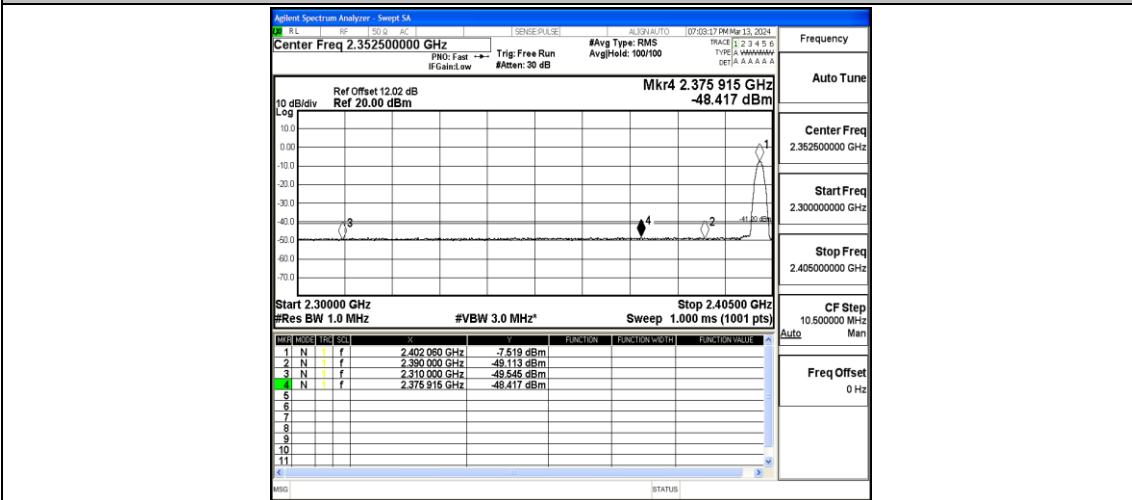
DH5-Ant1-2480-PASS



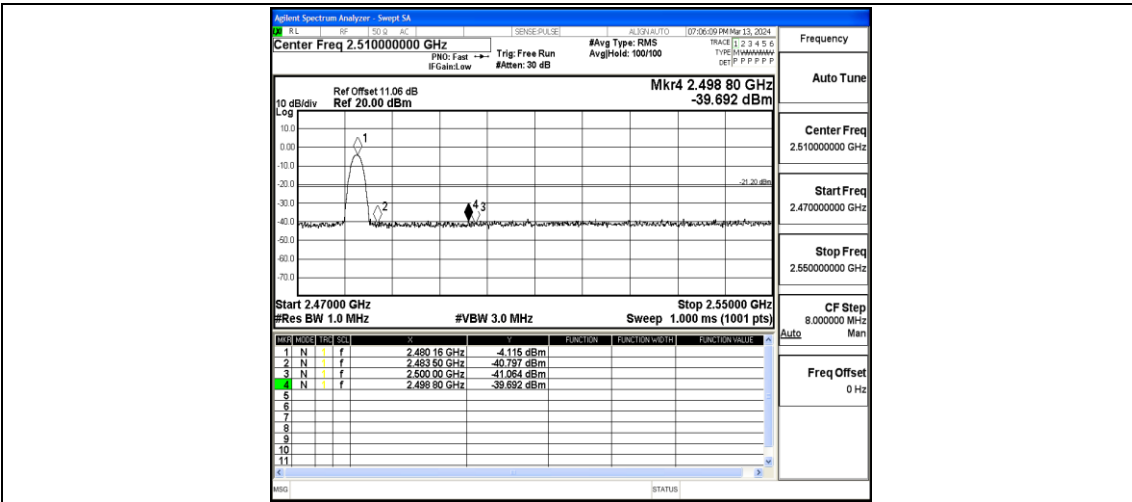
DH5-Ant1-2480-PASS



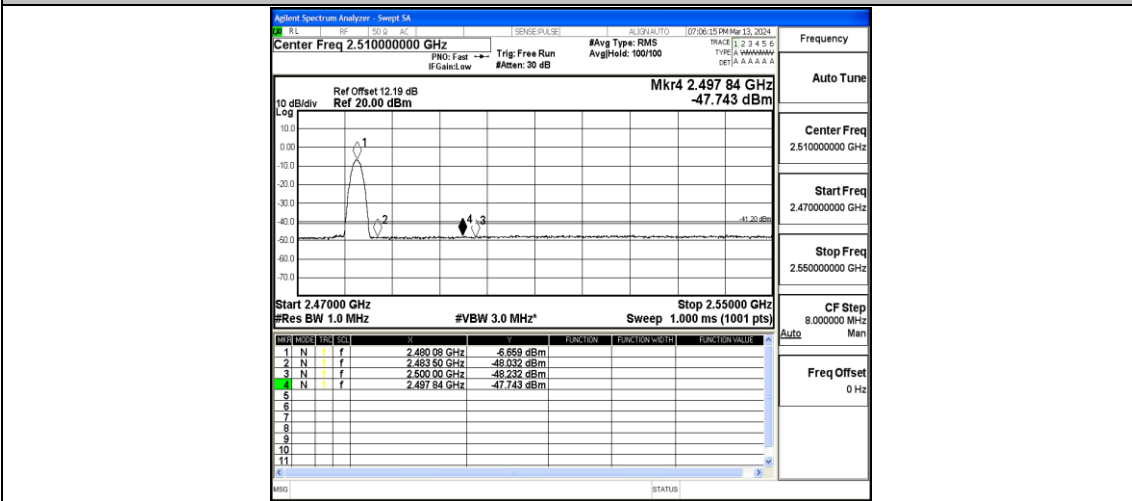
2DH5-Ant1-2402-PASS



2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS



2DH5-Ant1-2480-PASS