

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

Product Name: Bluetooth karaoke player, wireless mic

Trade Mark: singing machine

Test Model: SML294

FCC ID: 2AAXO-SML294BK

### Environmental Conditions

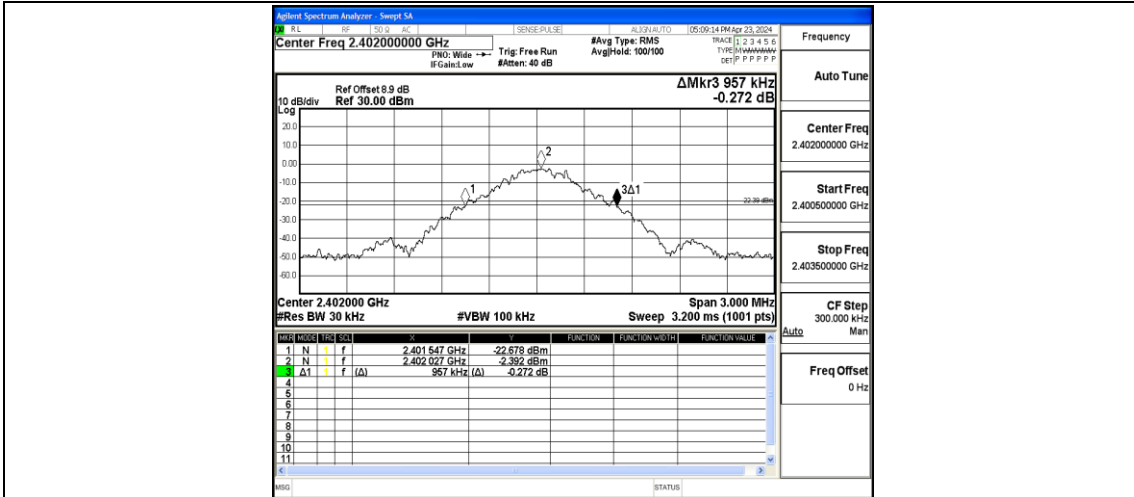
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

## Appendix A: 20dB Emission Bandwidth

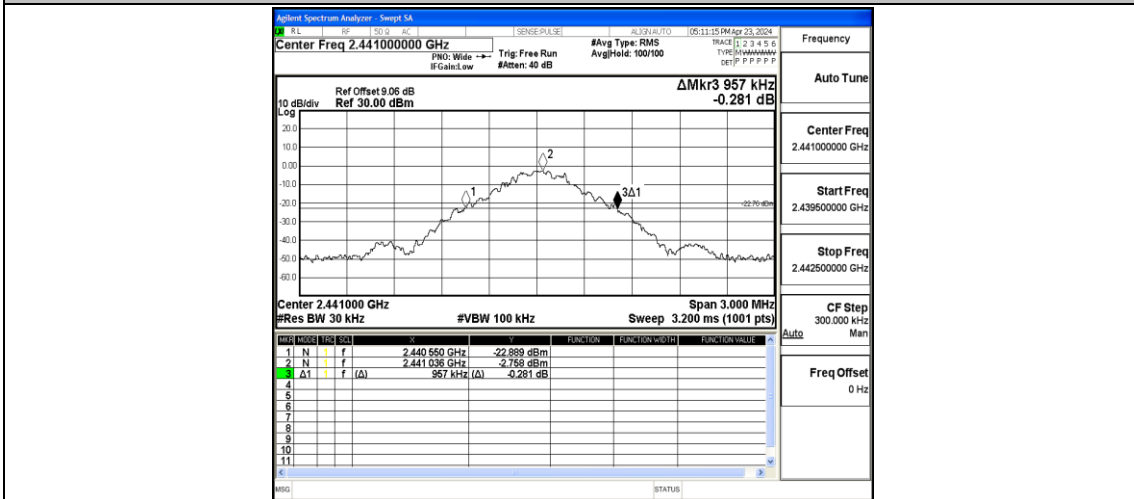
### Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.957	2401.547	2402.504	---	---
DH5	Ant1	2441	0.957	2440.550	2441.507	---	---
DH5	Ant1	2480	0.957	2479.541	2480.498	---	---
2DH5	Ant1	2402	1.287	2401.382	2402.669	---	---
2DH5	Ant1	2441	1.302	2440.364	2441.666	---	---
2DH5	Ant1	2480	1.290	2479.379	2480.669	---	---
3DH5	Ant1	2402	1.299	2401.364	2402.663	---	---
3DH5	Ant1	2441	1.311	2440.361	2441.672	---	---
3DH5	Ant1	2480	1.293	2479.364	2480.657	---	---

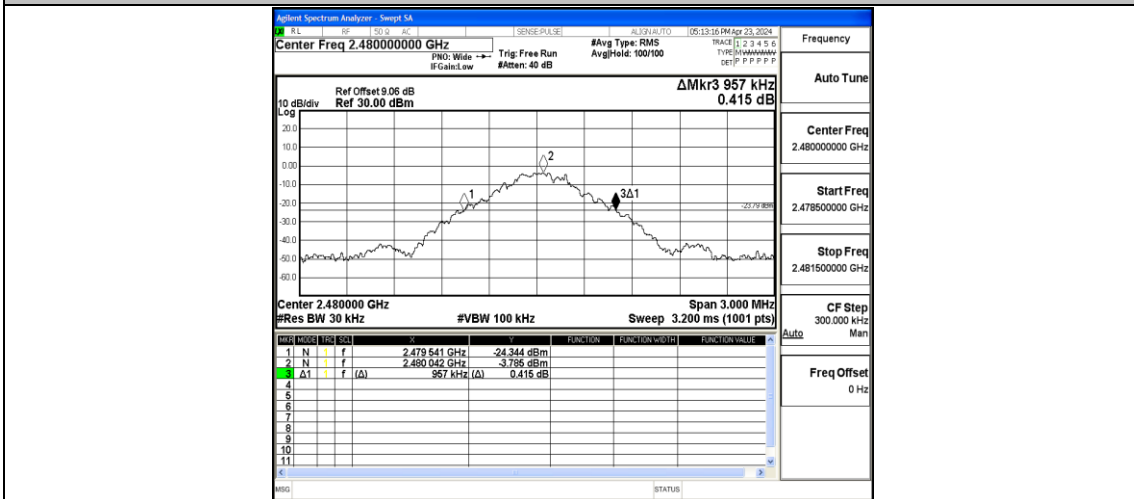
### Test Graphs



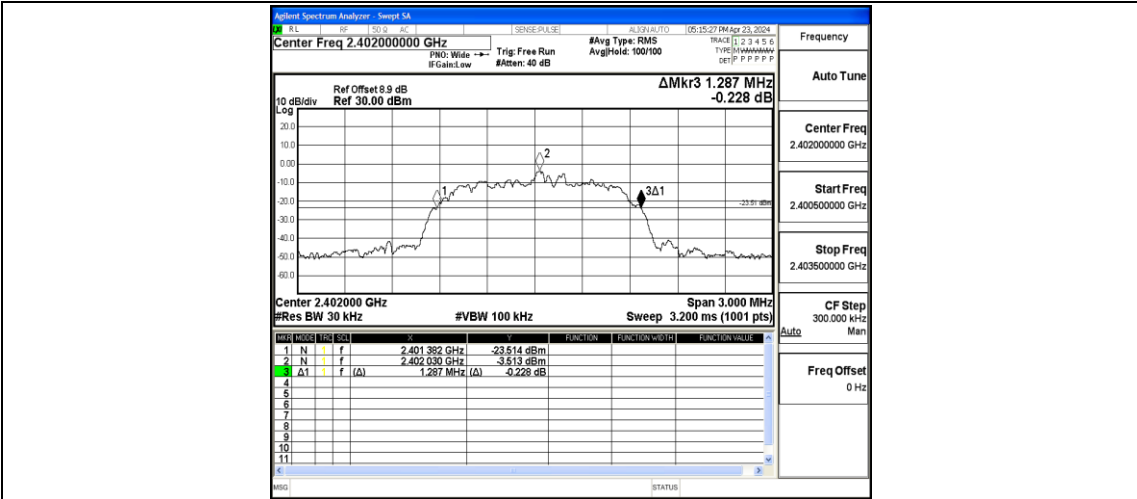
DH5-Ant1-2402



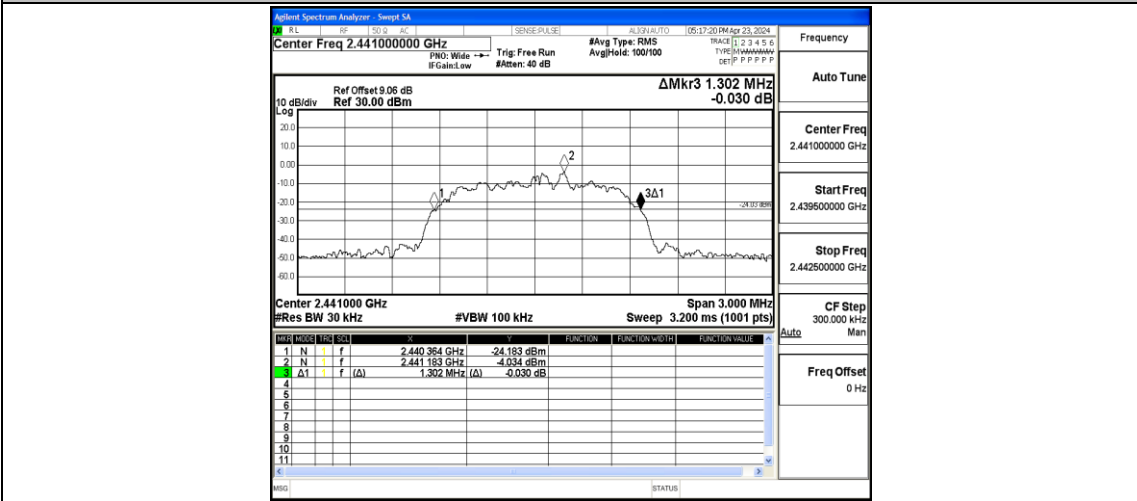
DH5-Ant1-2441



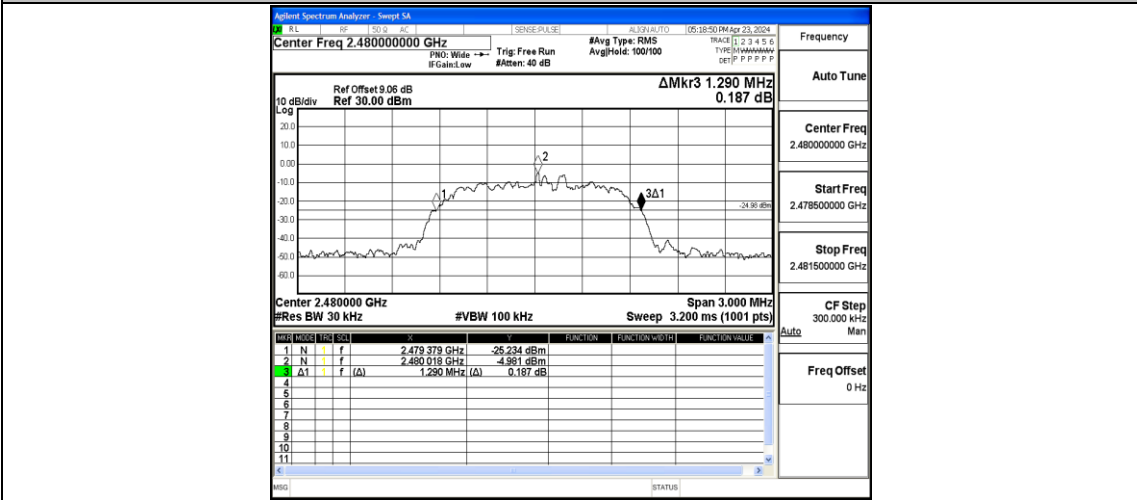
DH5-Ant1-2480



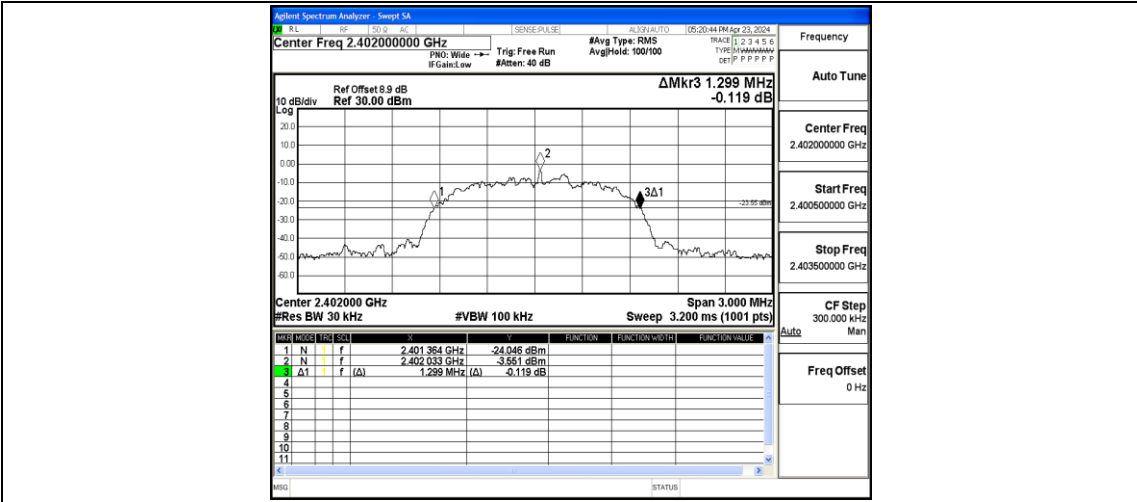
2DH5-Ant1-2402



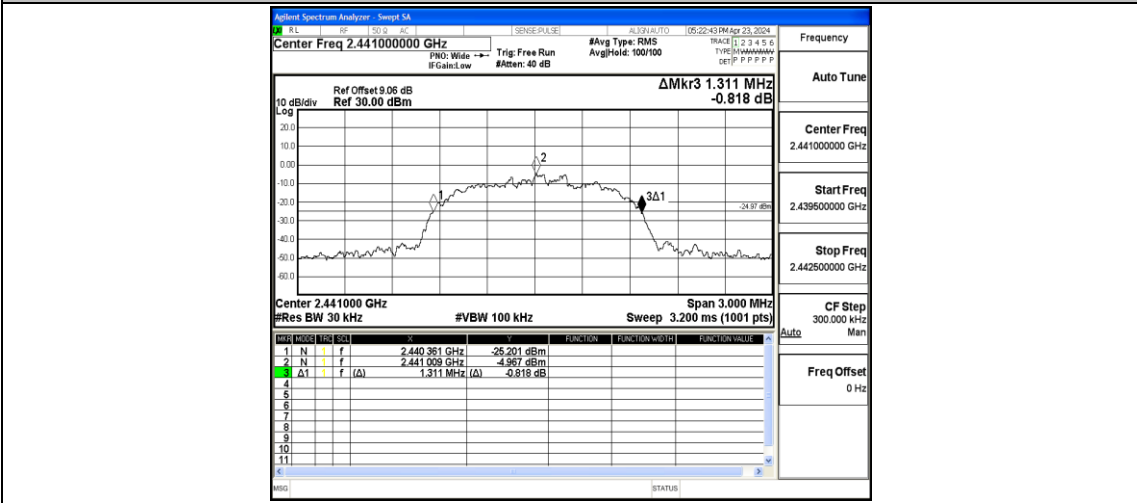
2DH5-Ant1-2441



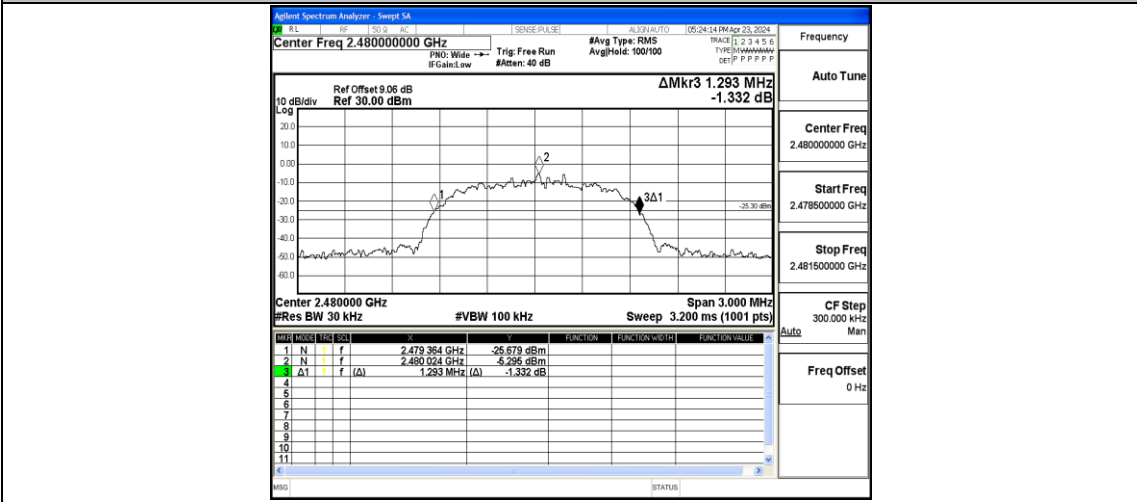
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



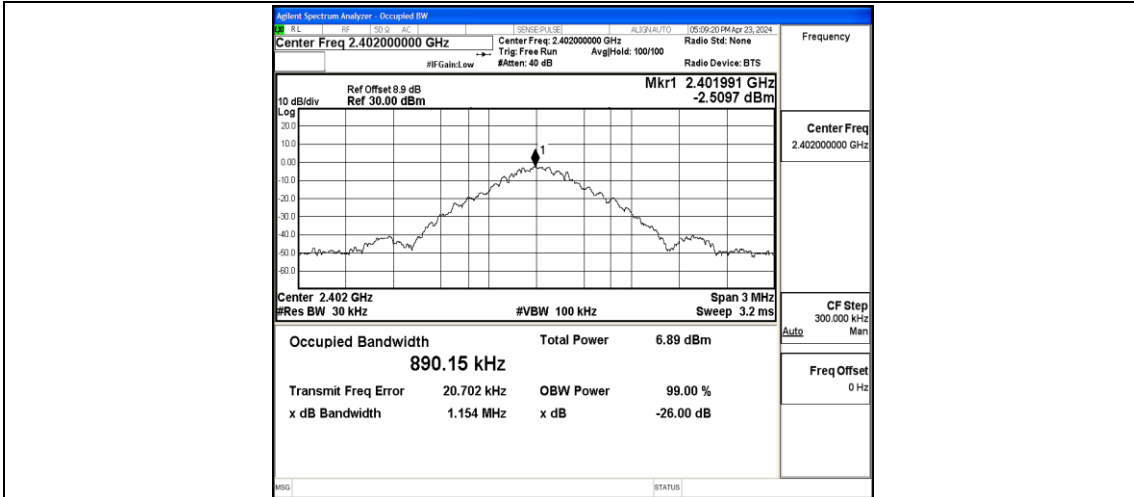
3DH5-Ant1-2480

## Appendix B: Occupied Channel Bandwidth

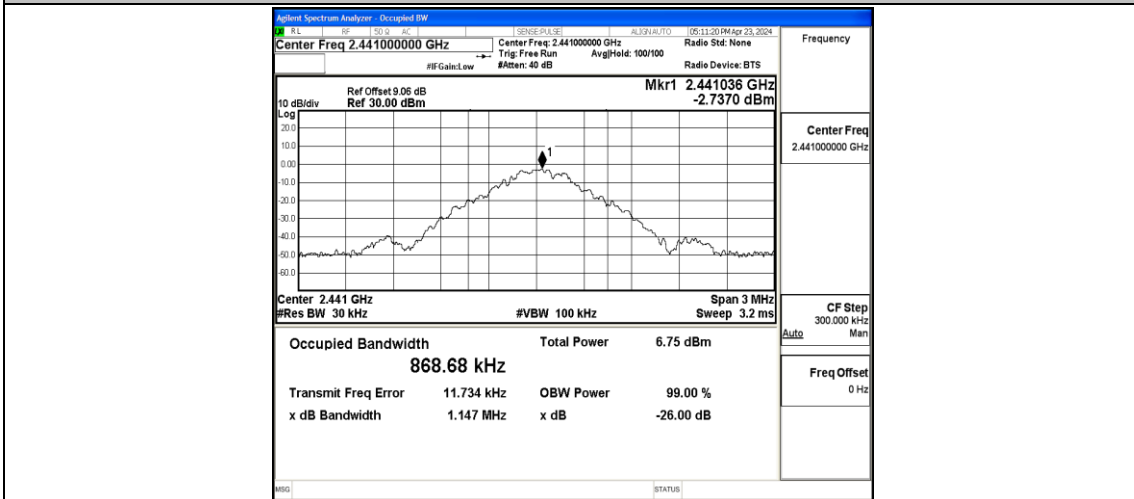
### Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89015	2401.5756	2402.4658	---	---
DH5	Ant1	2441	0.86868	2440.5774	2441.4461	---	---
DH5	Ant1	2480	0.88731	2479.5745	2480.4618	---	---
2DH5	Ant1	2402	1.1739	2401.4273	2402.6012	---	---
2DH5	Ant1	2441	1.1822	2440.4215	2441.6037	---	---
2DH5	Ant1	2480	1.1852	2479.4205	2480.6057	---	---
3DH5	Ant1	2402	1.1889	2401.4203	2402.6092	---	---
3DH5	Ant1	2441	1.1812	2440.4282	2441.6094	---	---
3DH5	Ant1	2480	1.1816	2479.4252	2480.6068	---	---

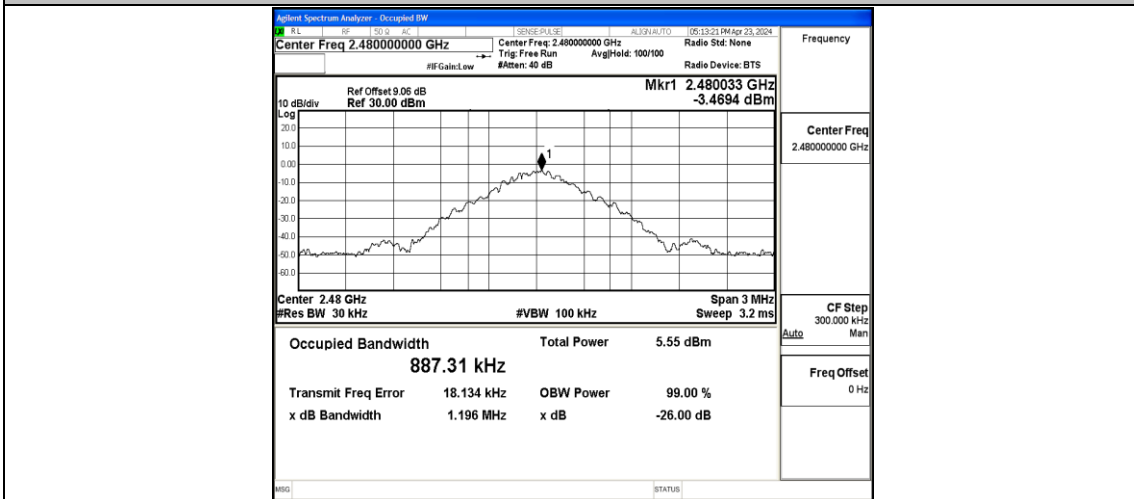
### Test Graphs



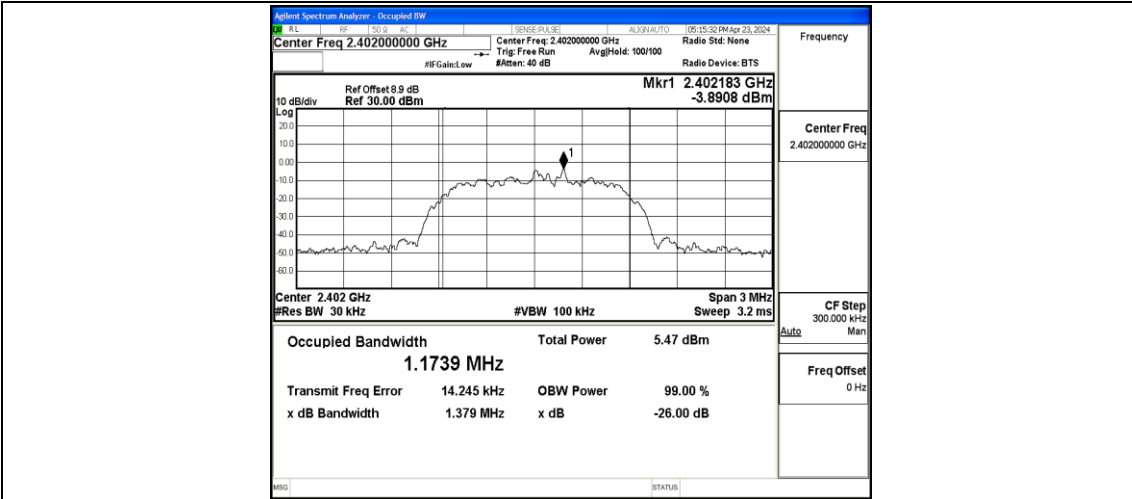
DH5-Ant1-2402



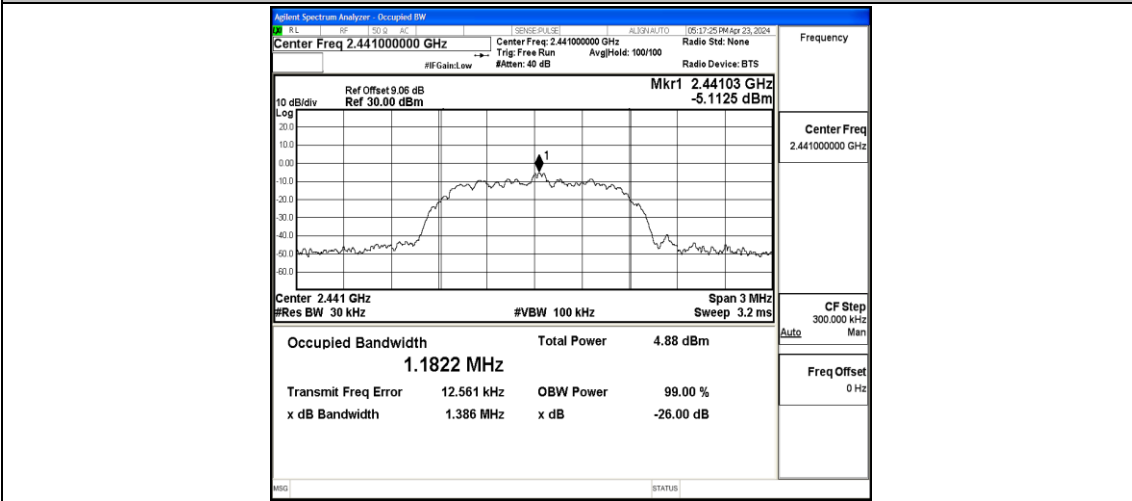
DH5-Ant1-2441



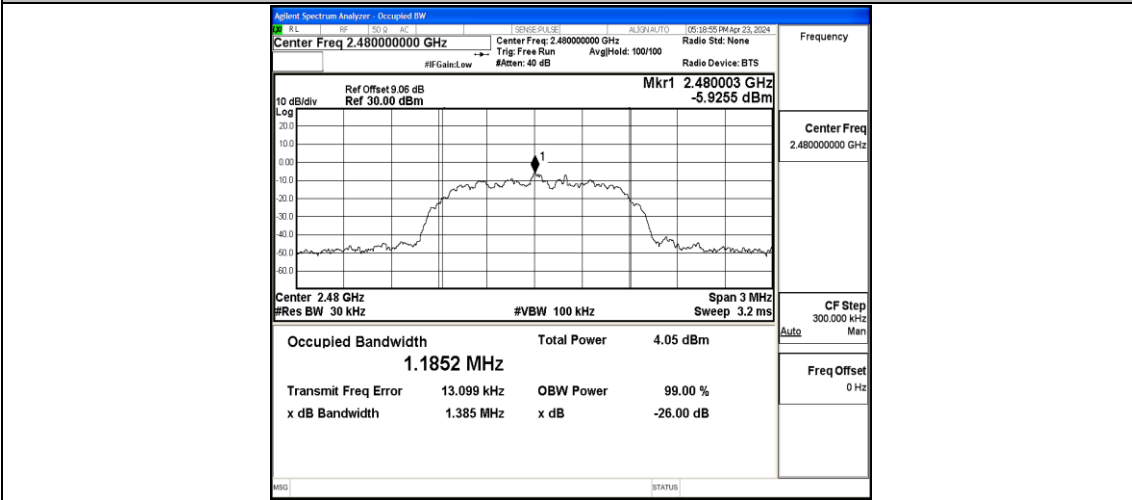
DH5-Ant1-2480



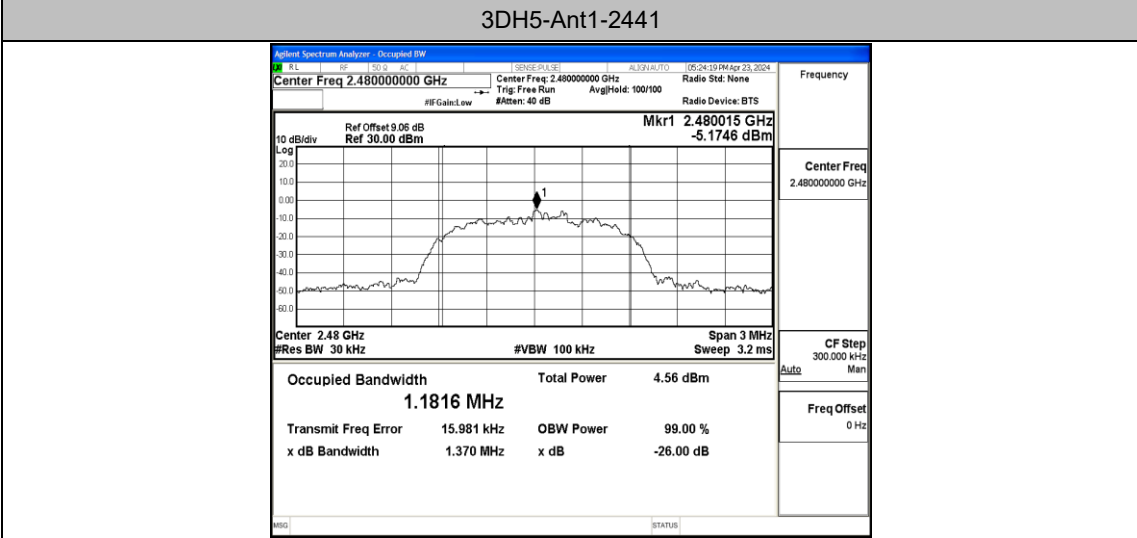
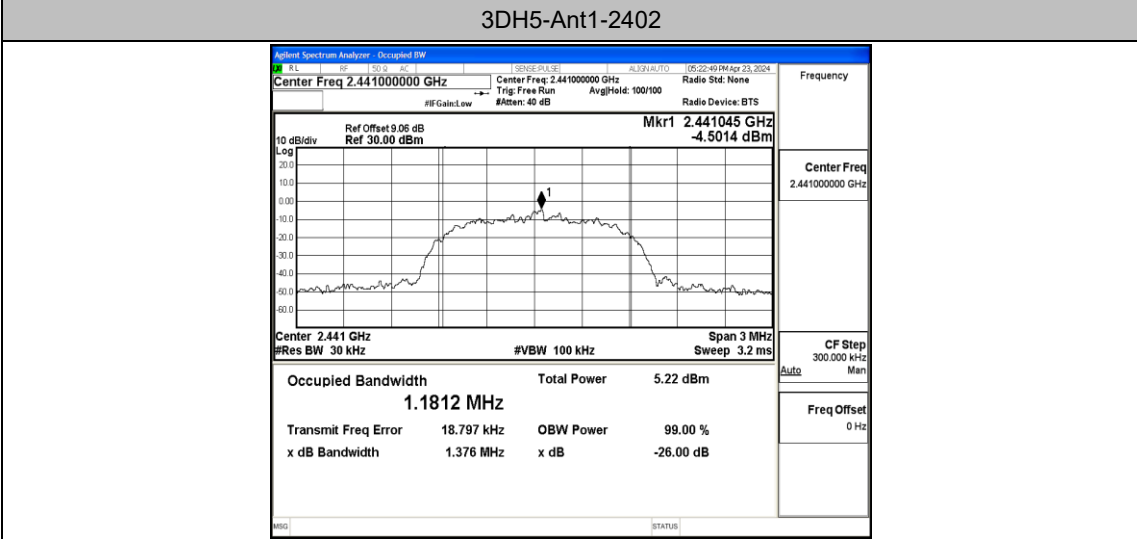
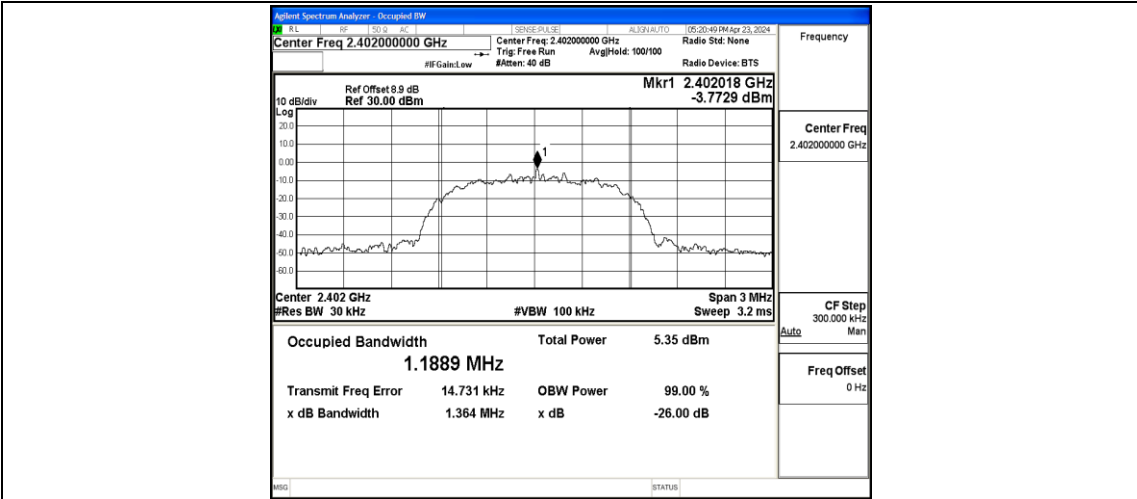
2DH5-Ant1-2402



2DH5-Ant1-2441



2DH5-Ant1-2480



**3DH5-Ant1-2480**

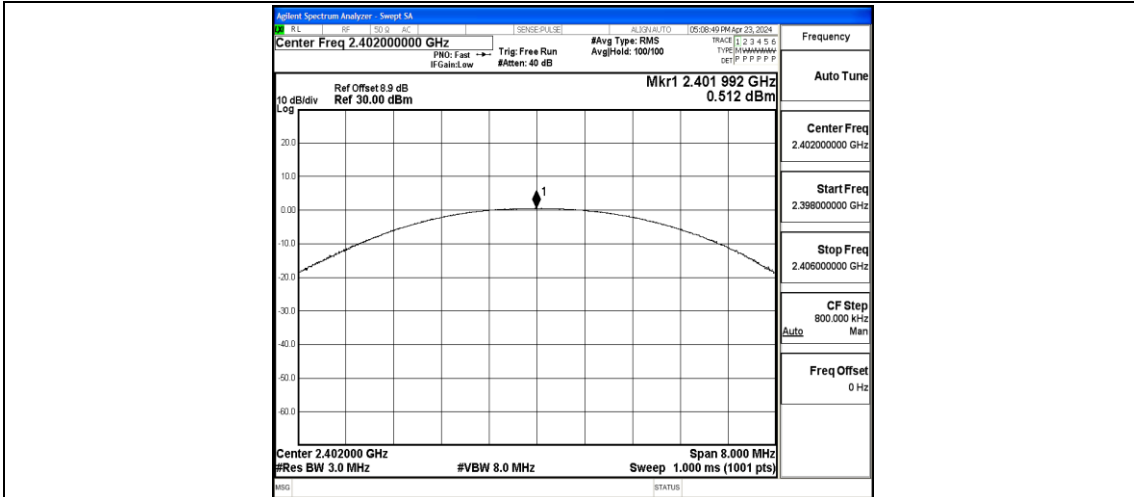


## Appendix C: Maximum peak conducted output power

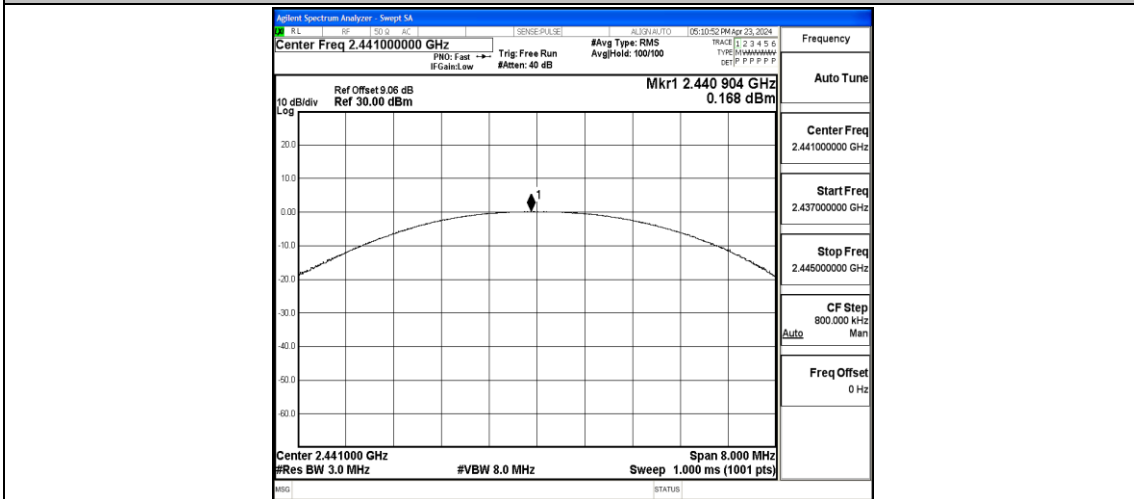
### Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.51	≤30	PASS
DH5	Ant1	2441	0.17	≤30	PASS
DH5	Ant1	2480	-0.64	≤30	PASS
2DH5	Ant1	2402	0.75	≤20.97	PASS
2DH5	Ant1	2441	0.44	≤20.97	PASS
2DH5	Ant1	2480	-0.35	≤20.97	PASS
3DH5	Ant1	2402	1.16	≤20.97	PASS
3DH5	Ant1	2441	0.99	≤20.97	PASS
3DH5	Ant1	2480	0.04	≤20.97	PASS

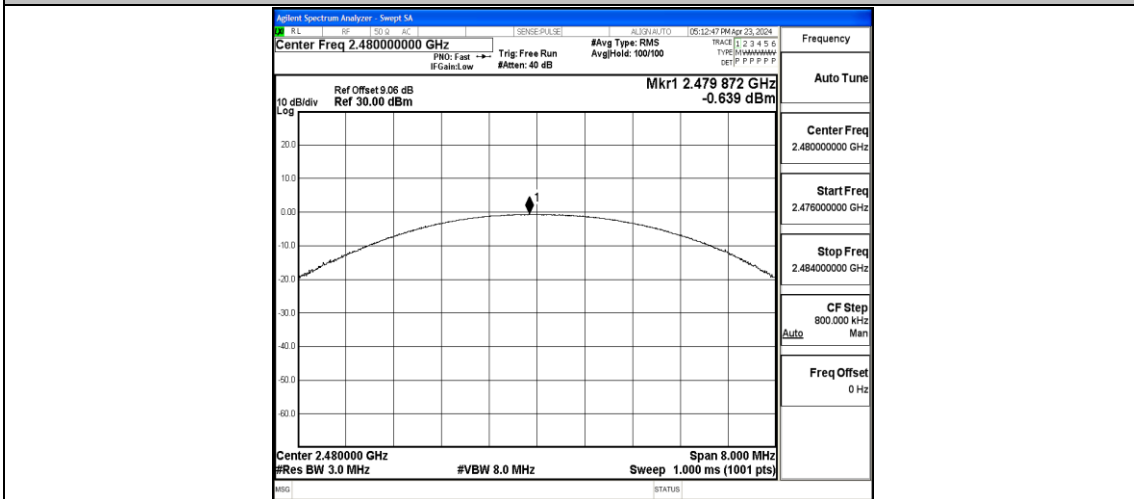
### Test Graphs



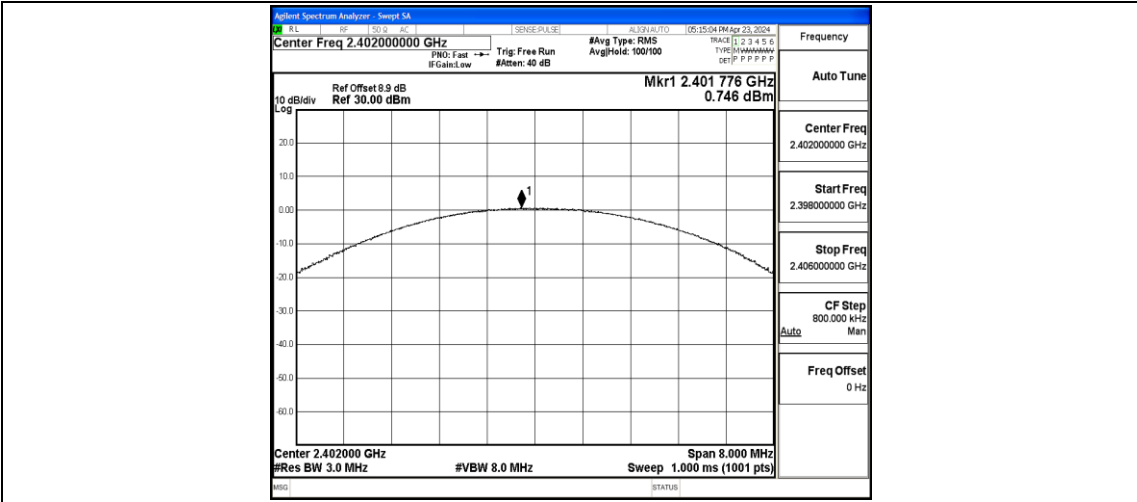
DH5-Ant1-2402-PASS



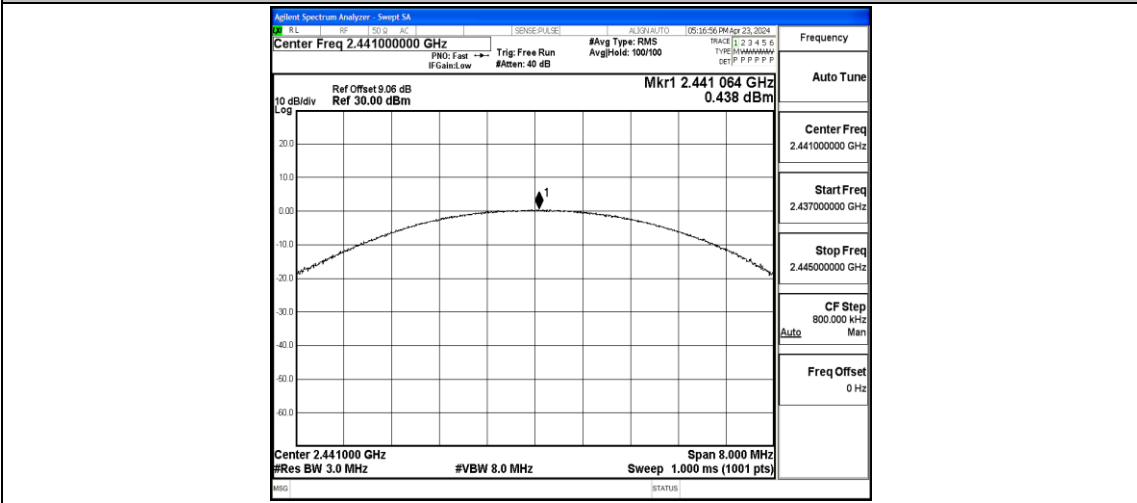
DH5-Ant1-2441-PASS



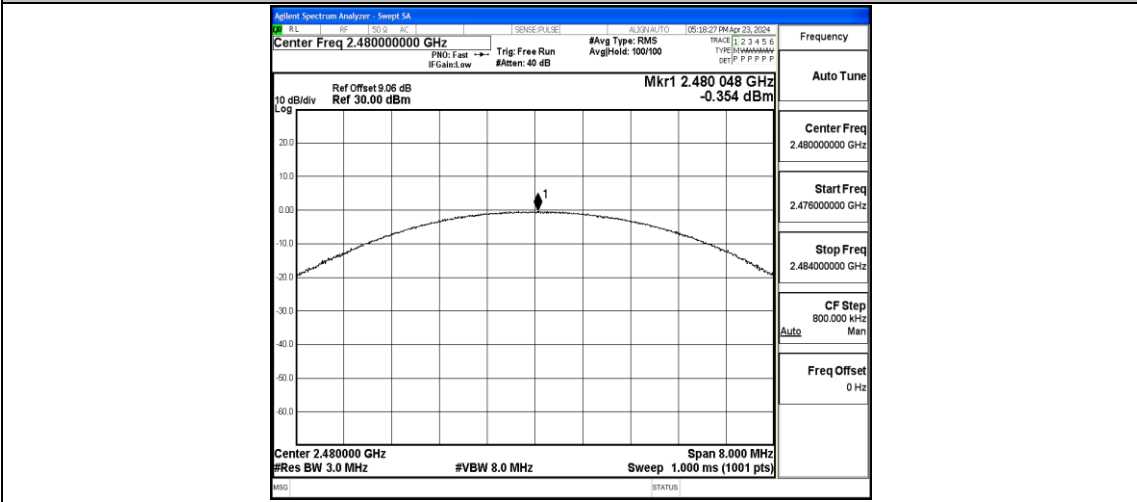
DH5-Ant1-2480-PASS



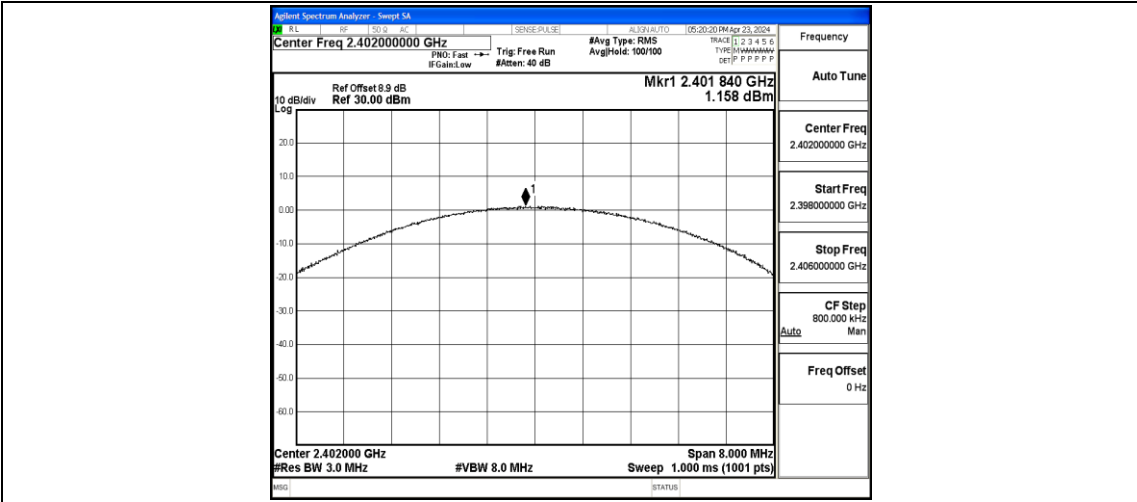
2DH5-Ant1-2402-PASS



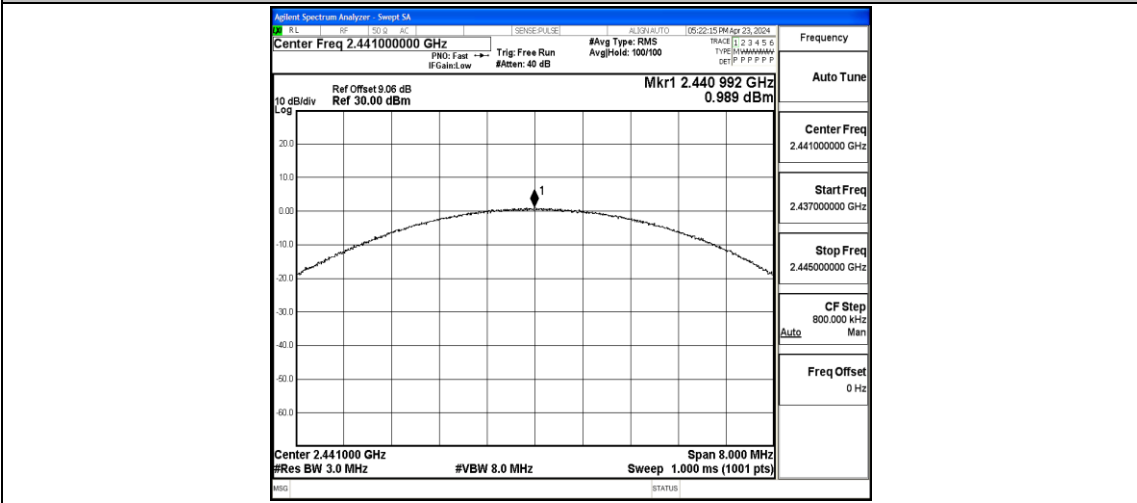
2DH5-Ant1-2441-PASS



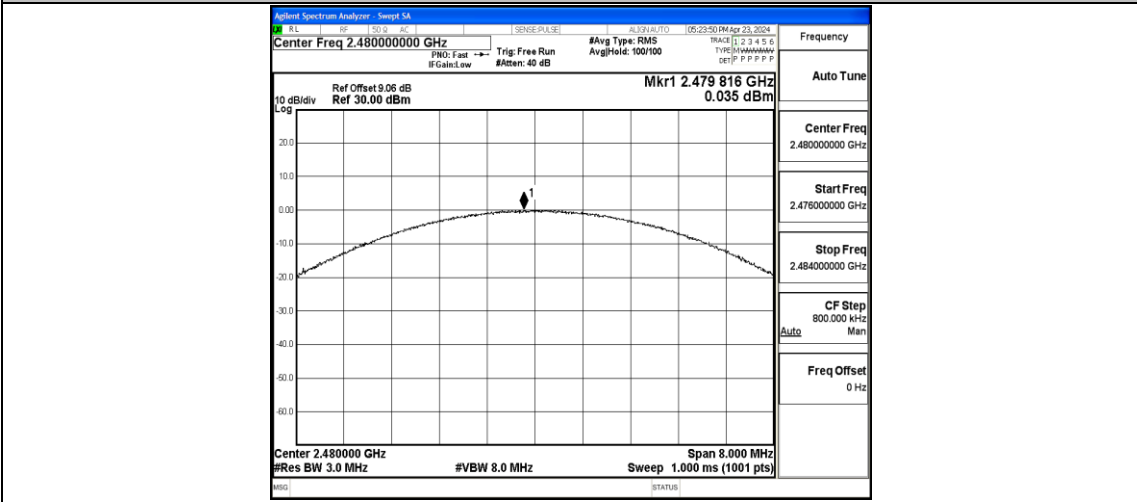
2DH5-Ant1-2480-PASS



3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS



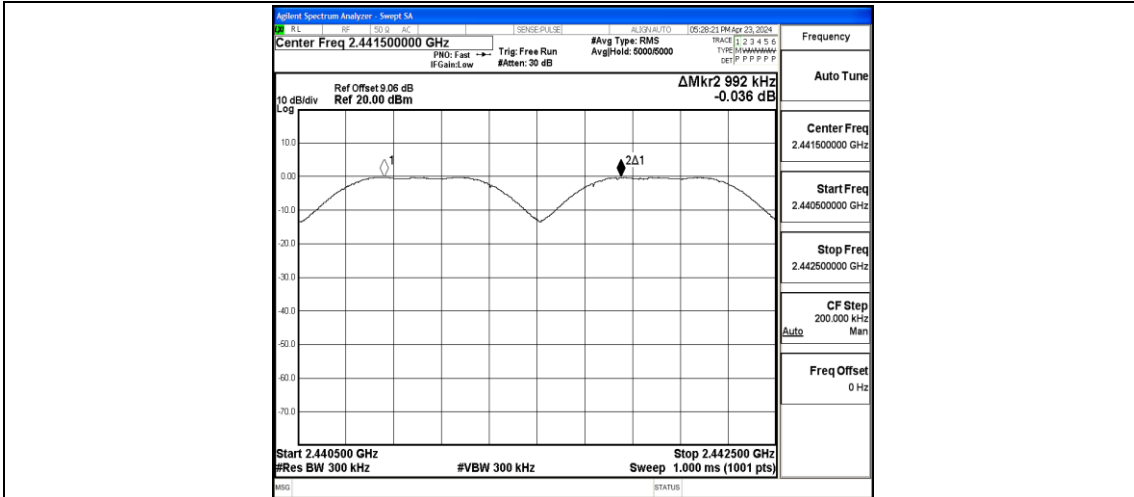
3DH5-Ant1-2480-PASS

## Appendix D: Carrier frequency separation

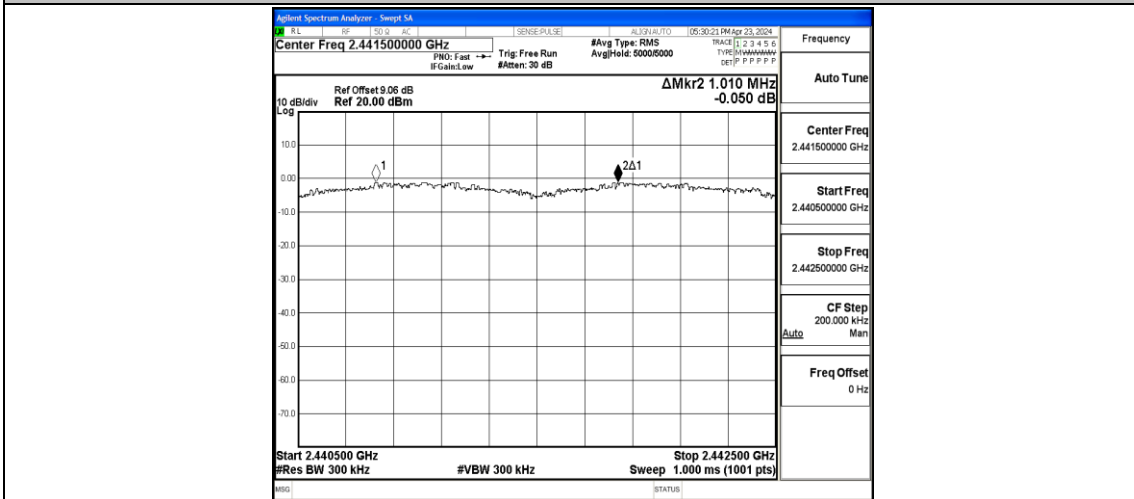
### Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.992	$\geq 0.957$	PASS
2DH5	Ant1	Hop	1.01	$\geq 0.868$	PASS
3DH5	Ant1	Hop	1.172	$\geq 0.874$	PASS

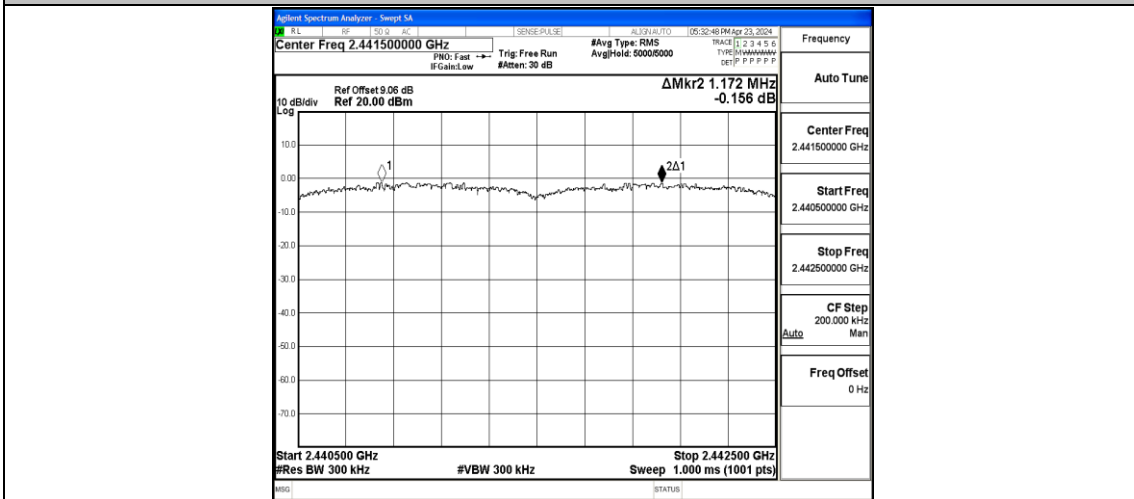
### Test Graphs



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



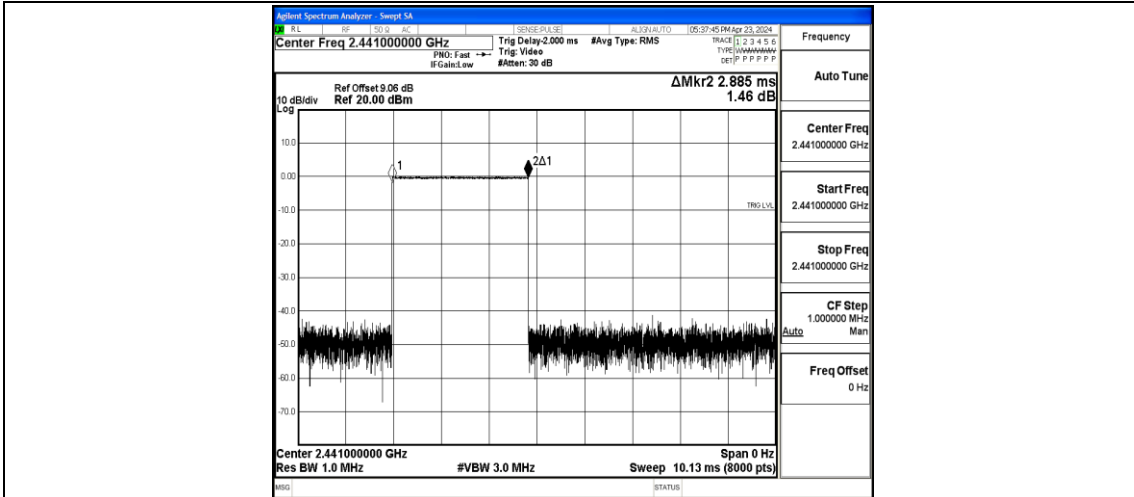
3DH5-Ant1-Hop-PASS

## Appendix E: Time of occupancy

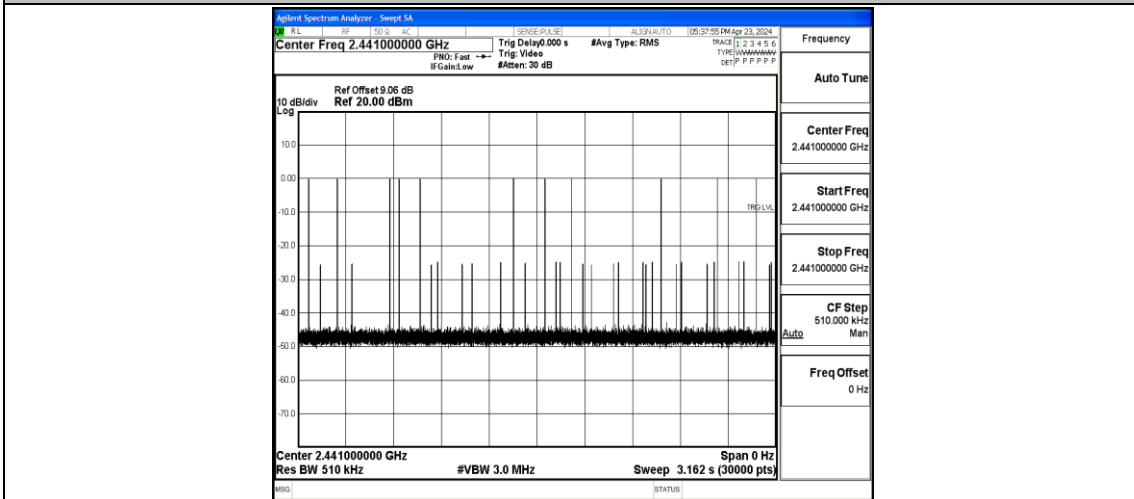
### Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.885	120	0.346	≤0.4	PASS
2DH5	Ant1	Hop	2.891	130	0.376	≤0.4	PASS
3DH5	Ant1	Hop	2.892	80	0.231	≤0.4	PASS

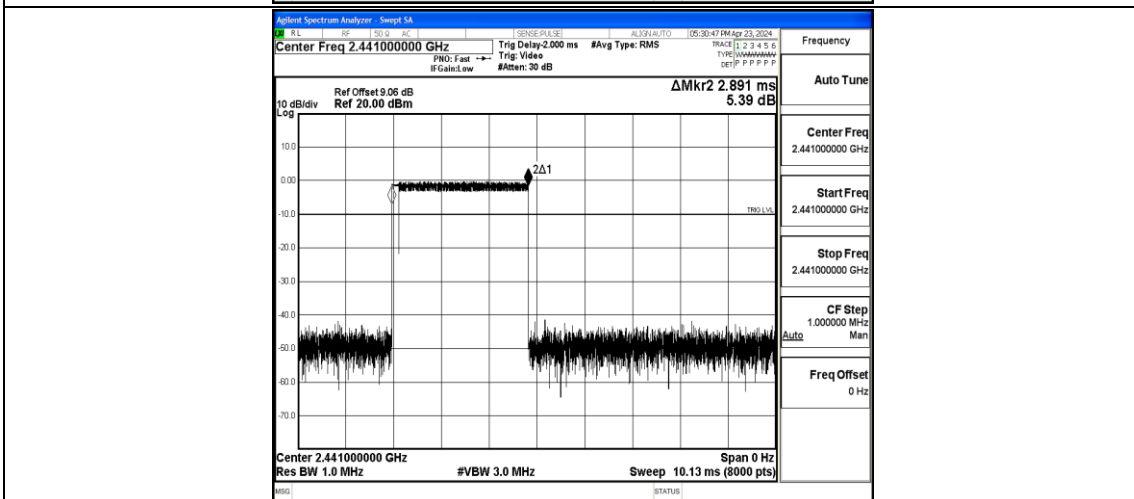
### Test Graphs



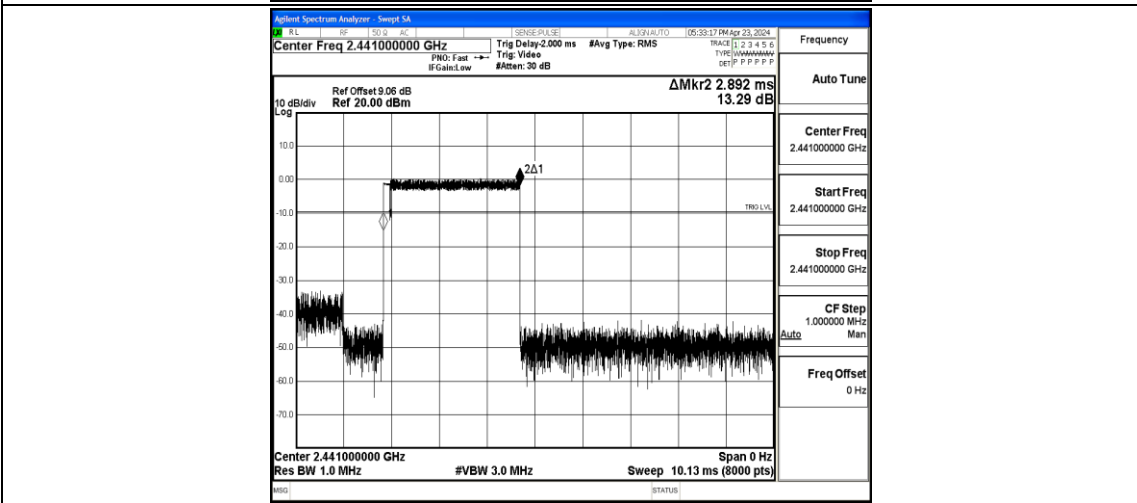
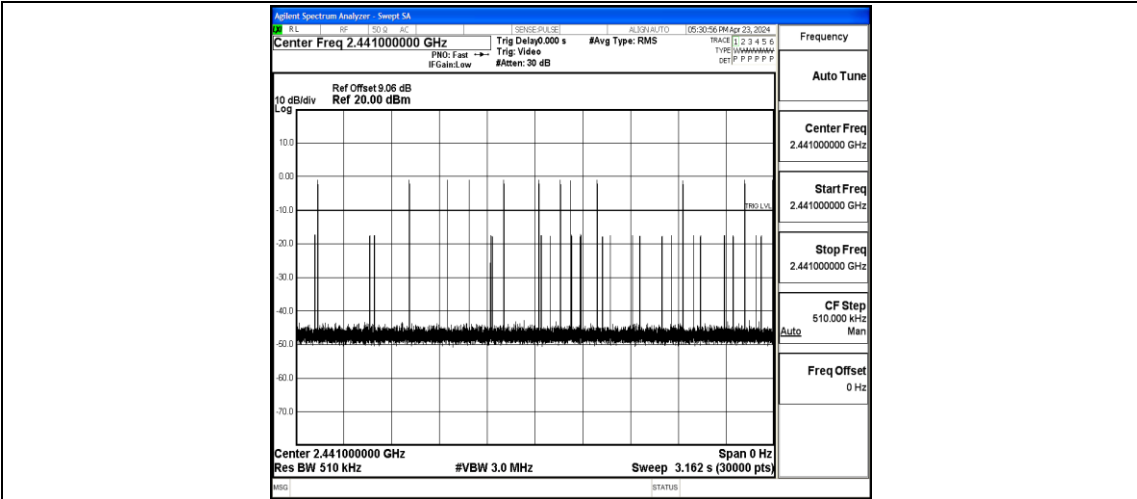
DH5-Ant1-Hop-PASS



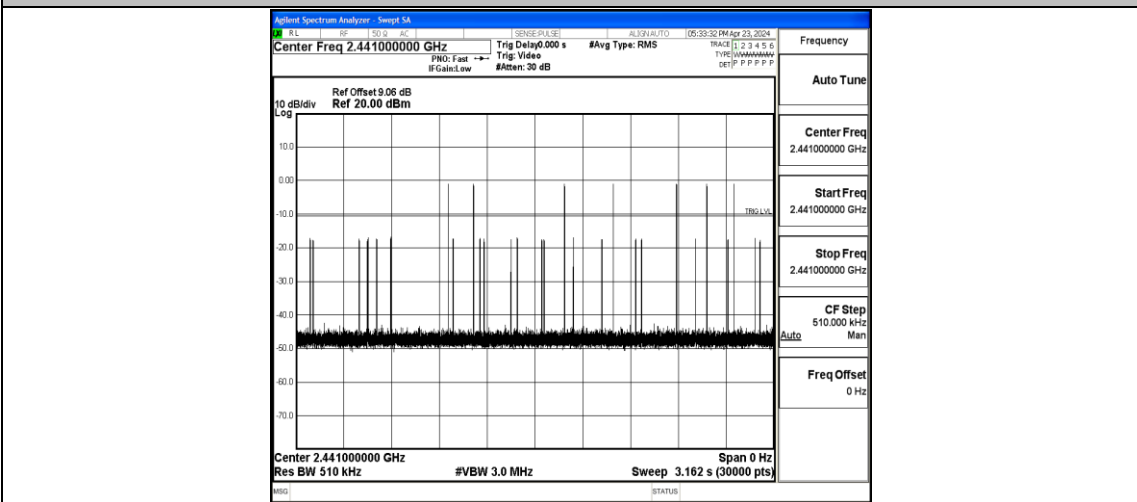
2DH5-Ant1-Hop-PASS







3DH5-Ant1-Hop-PASS

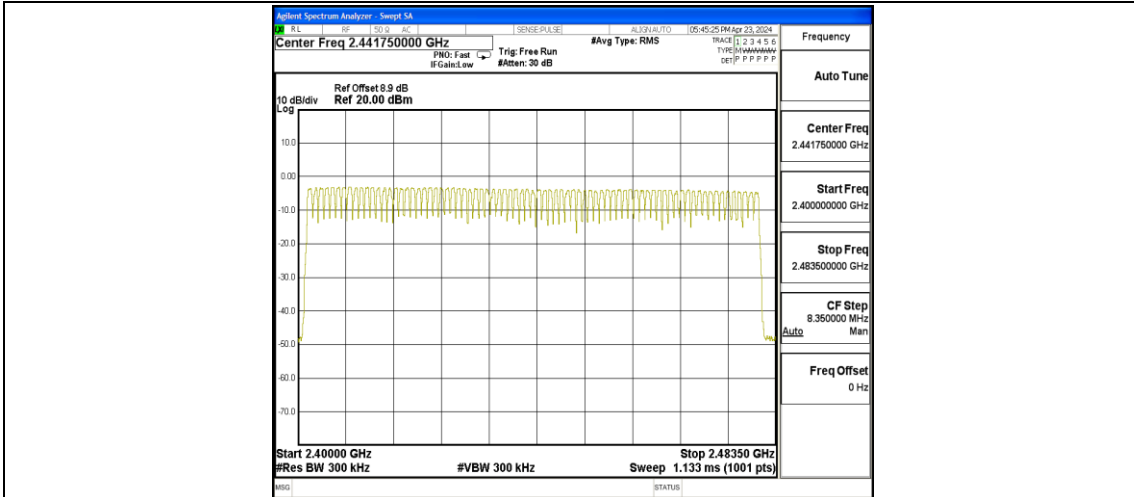


## Appendix F: Number of hopping channels

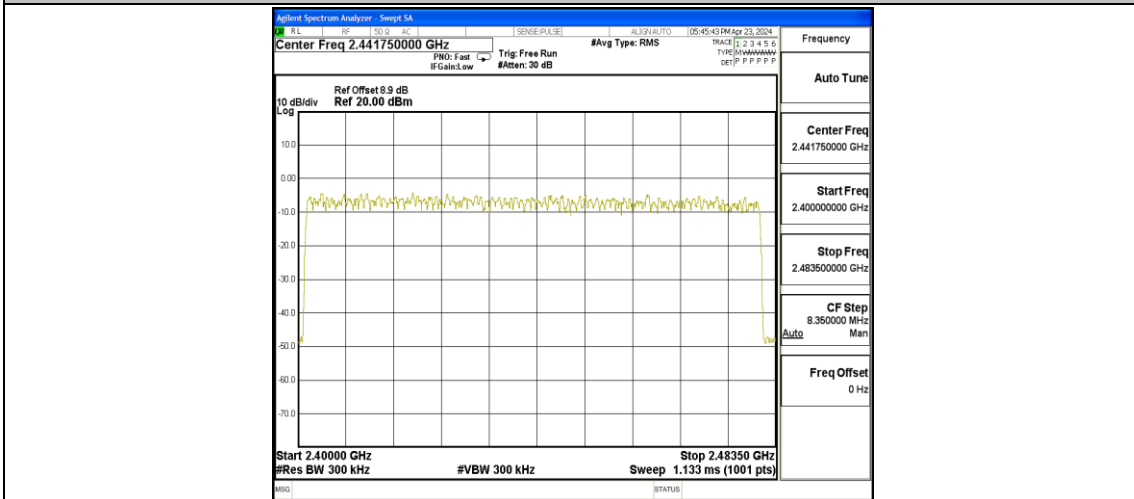
### Test Result

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

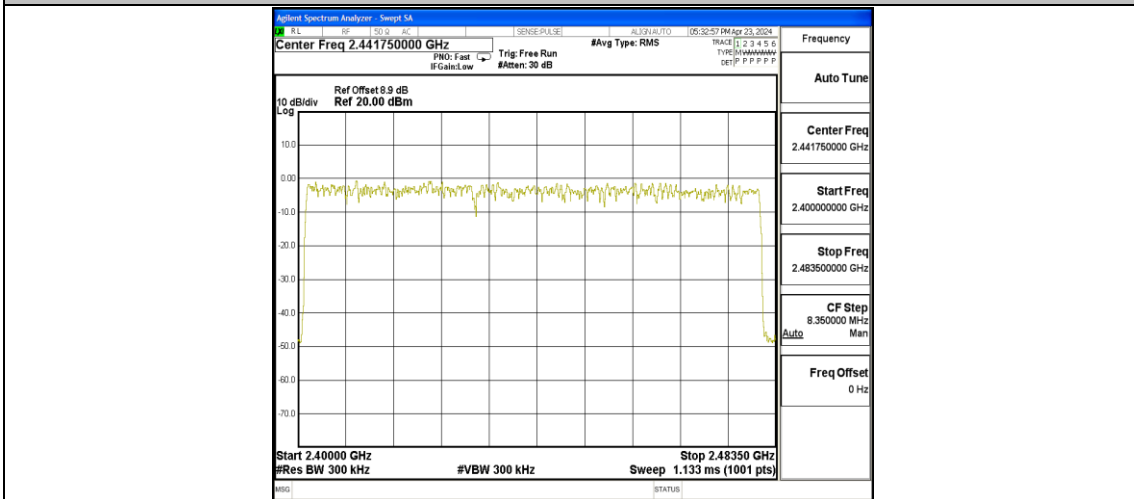
### Test Graphs



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



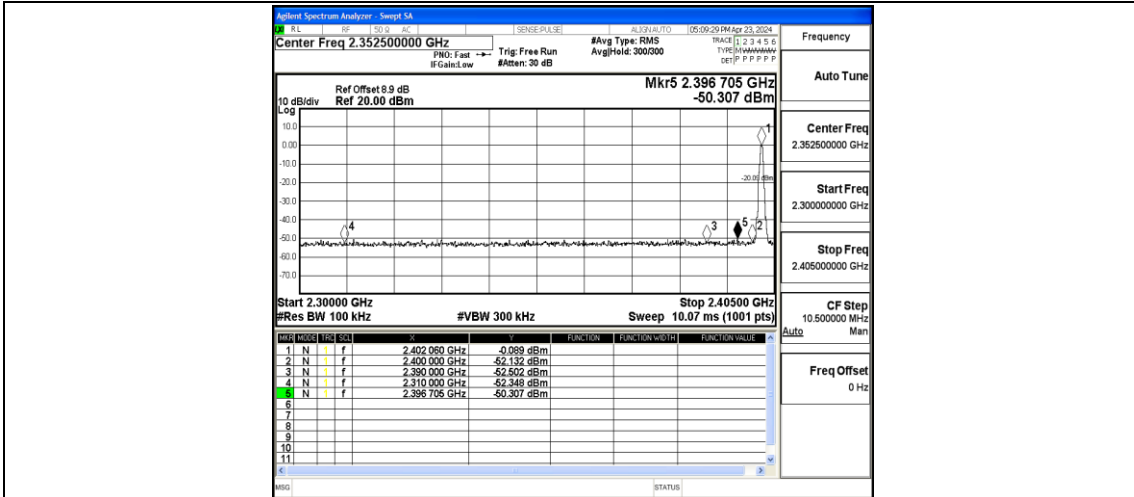
3DH5-Ant1-Hop-PASS

## Appendix G: Band edge measurements

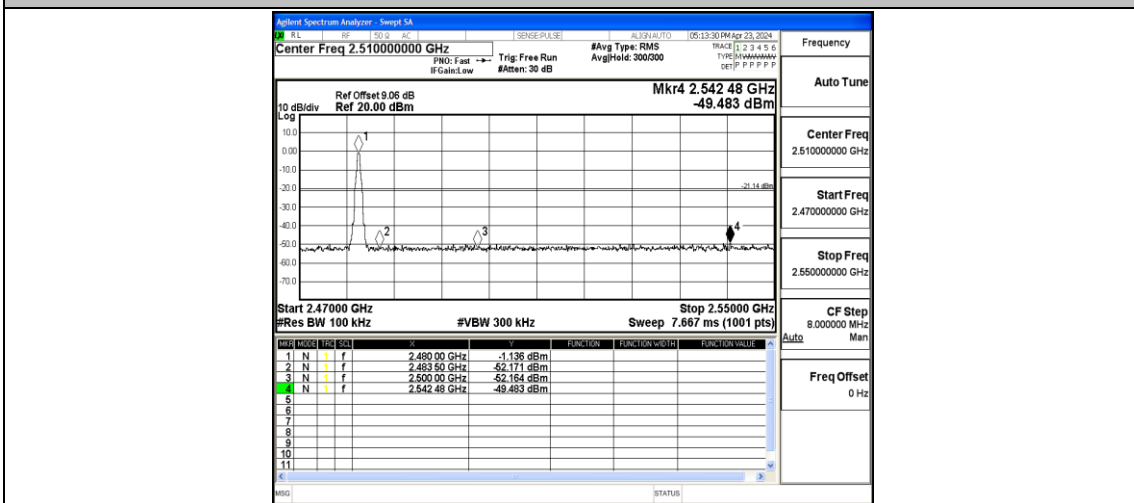
### Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.09	-50.31	≤-20.09	PASS
DH5	Ant1	High	2480	-1.14	-49.48	≤-21.14	PASS
DH5	Ant1	Low	Hop_2402	-0.76	-50.45	≤-20.76	PASS
DH5	Ant1	High	Hop_2480	-1.01	-49.19	≤-21.01	PASS
2DH5	Ant1	Low	2402	-0.67	-50.1	≤-20.67	PASS
2DH5	Ant1	High	2480	-2.36	-49.89	≤-22.36	PASS
2DH5	Ant1	Low	Hop_2402	-4.79	-50.67	≤-24.79	PASS
2DH5	Ant1	High	Hop_2480	-3.59	-49.74	≤-23.59	PASS
3DH5	Ant1	Low	2402	-1.08	-49.26	≤-21.08	PASS
3DH5	Ant1	High	2480	-2.47	-49.6	≤-22.47	PASS
3DH5	Ant1	Low	Hop_2402	-2.94	-50.86	≤-22.94	PASS
3DH5	Ant1	High	Hop_2480	-4.71	-49.71	≤-24.71	PASS

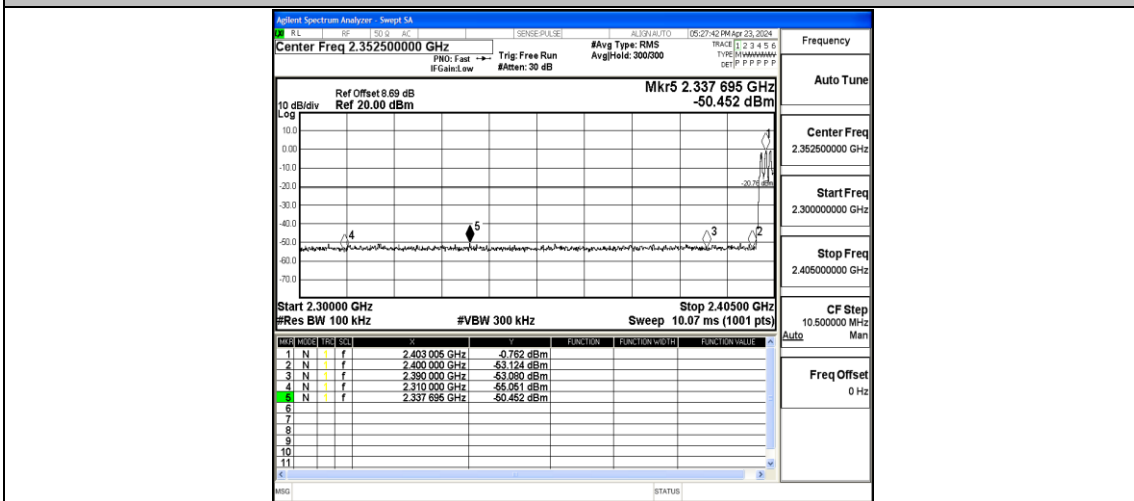
### Test Graphs



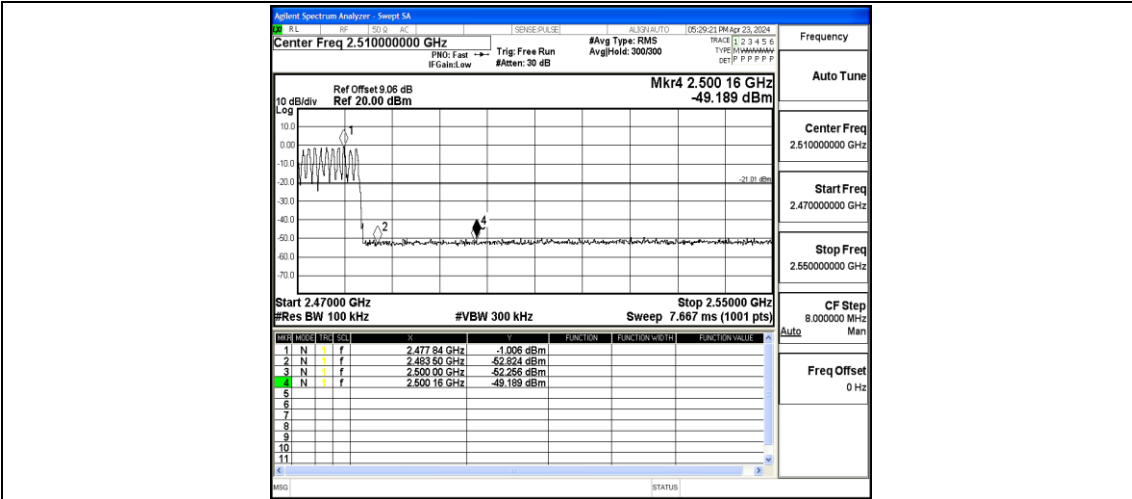
DH5-Ant1-2402-PASS



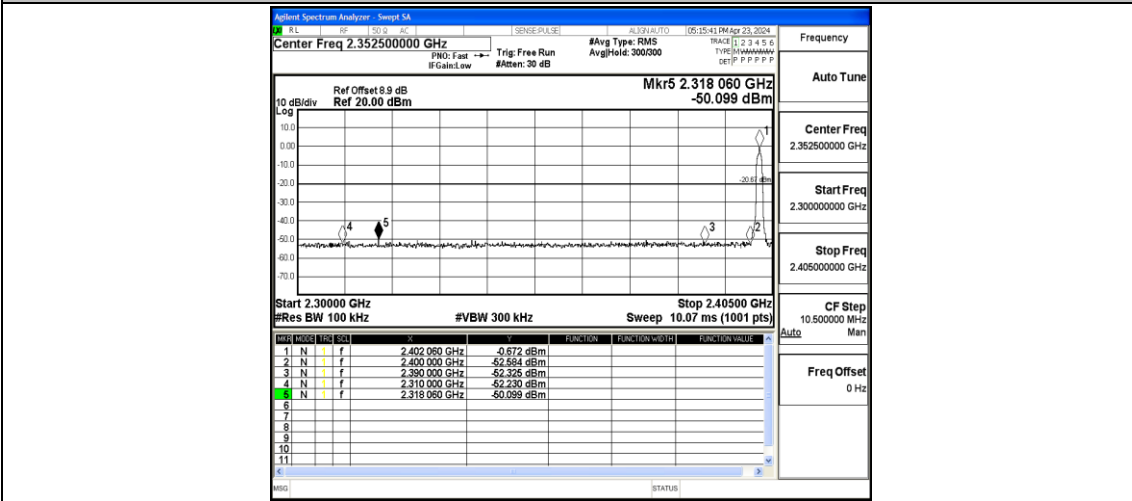
DH5-Ant1-2480-PASS



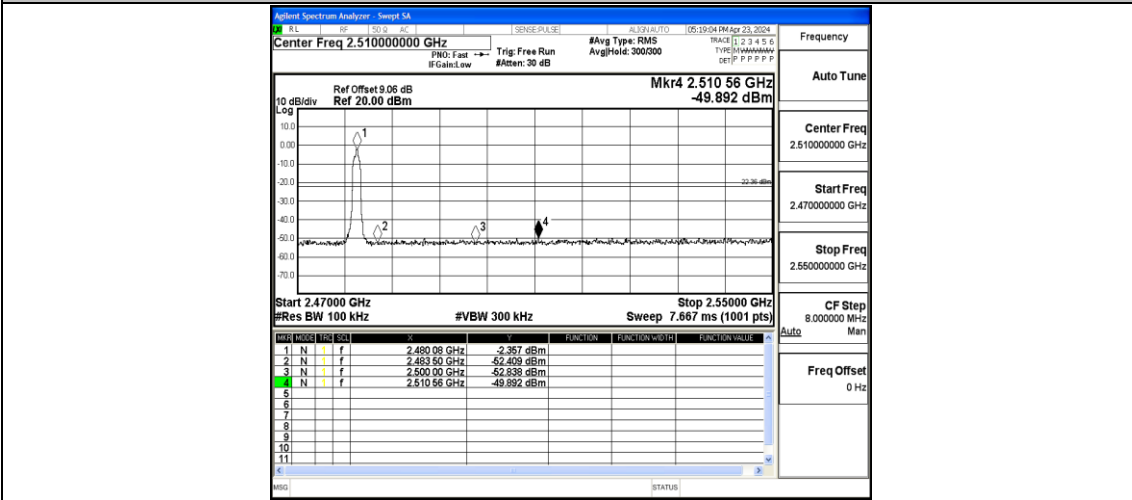
DH5-Ant1-Hop\_2402-PASS



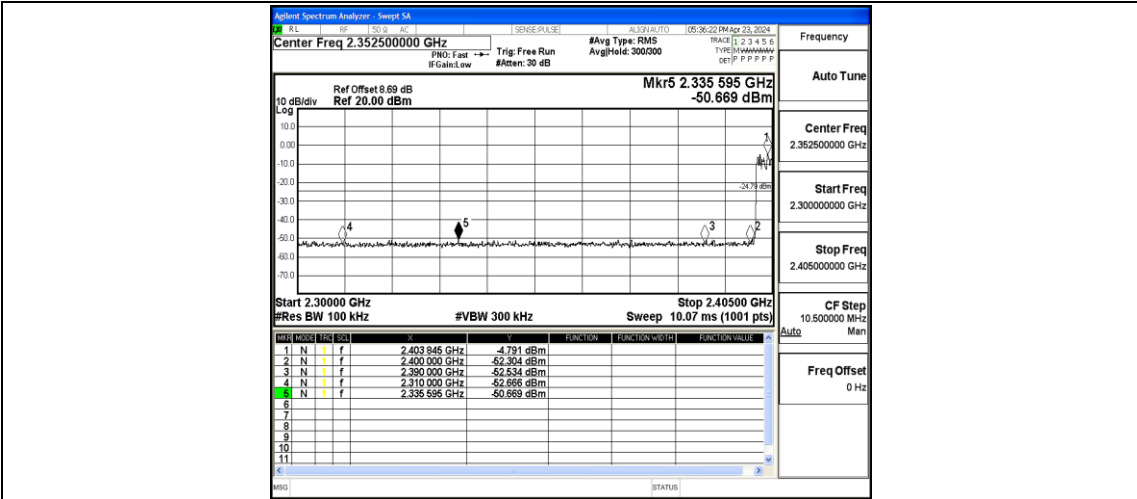
DH5-Ant1-Hop\_2480-PASS



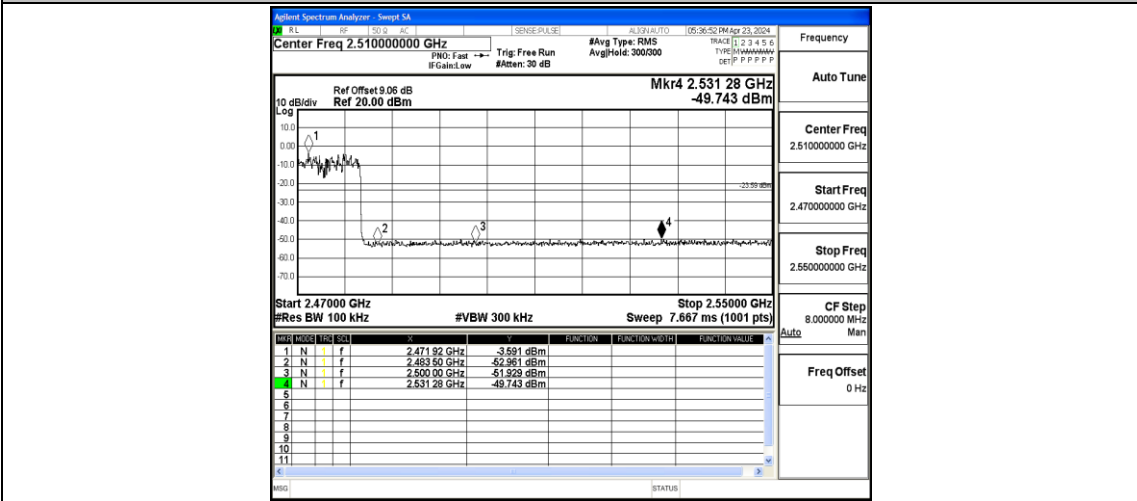
2DH5-Ant1-2402-PASS



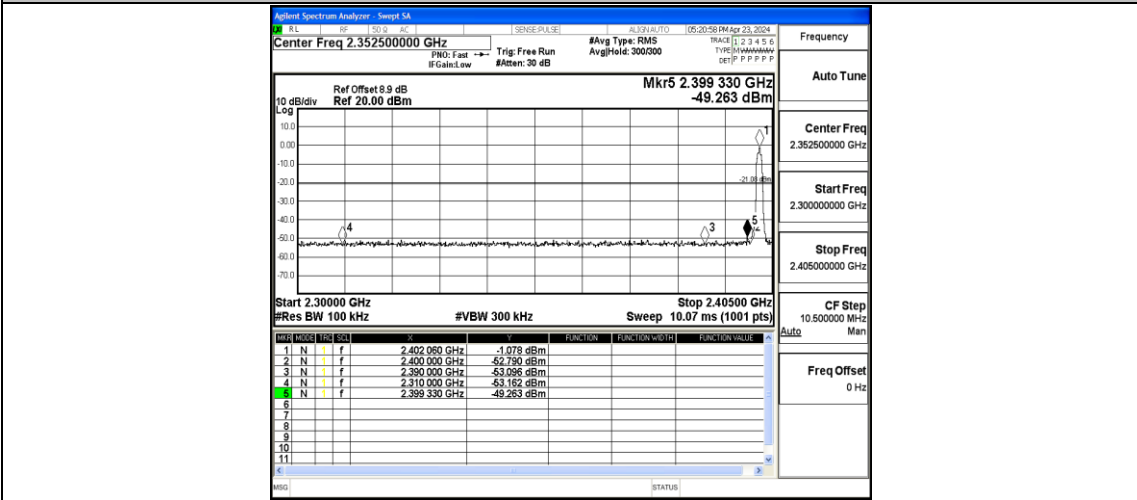
2DH5-Ant1-2480-PASS



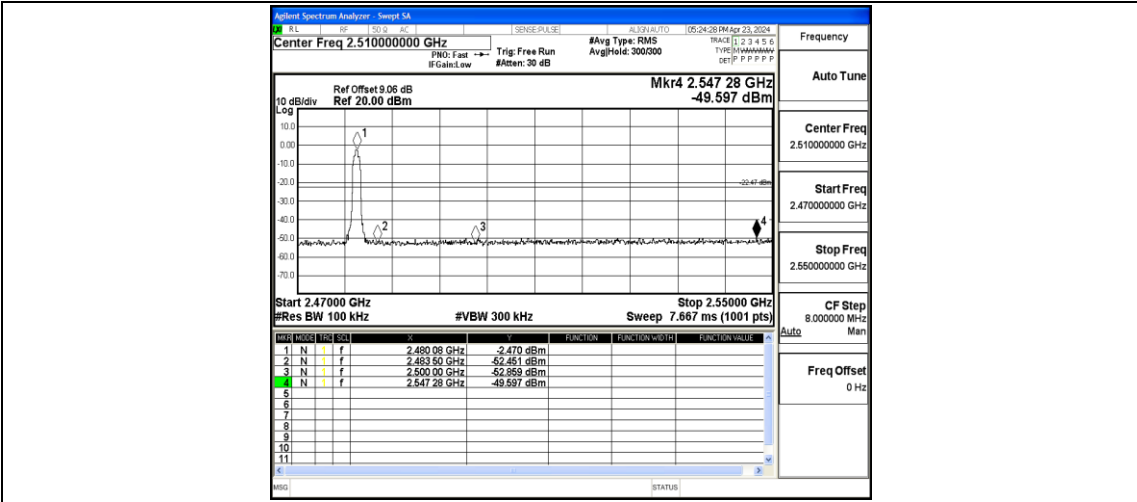
2DH5-Ant1-Hop\_2402-PASS



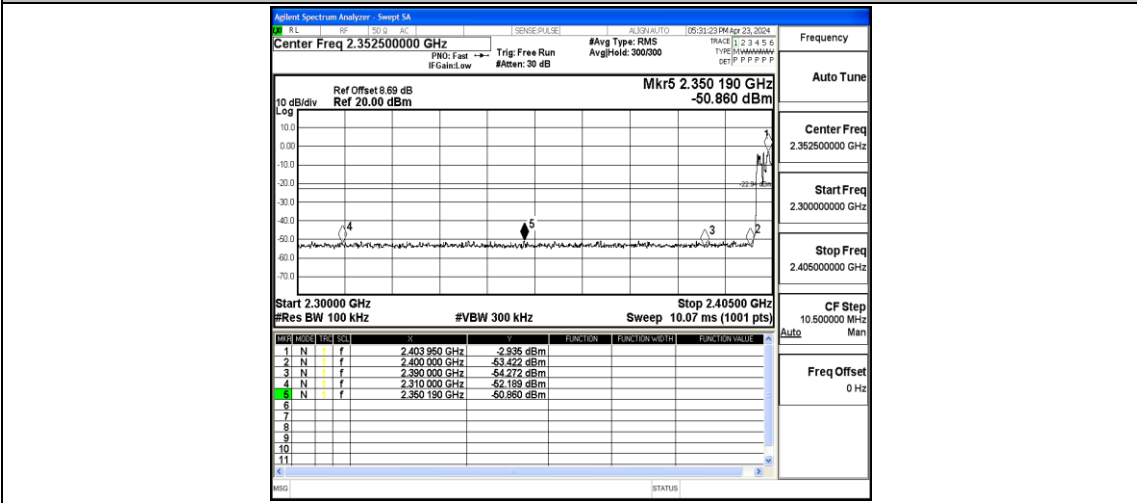
2DH5-Ant1-Hop\_2480-PASS



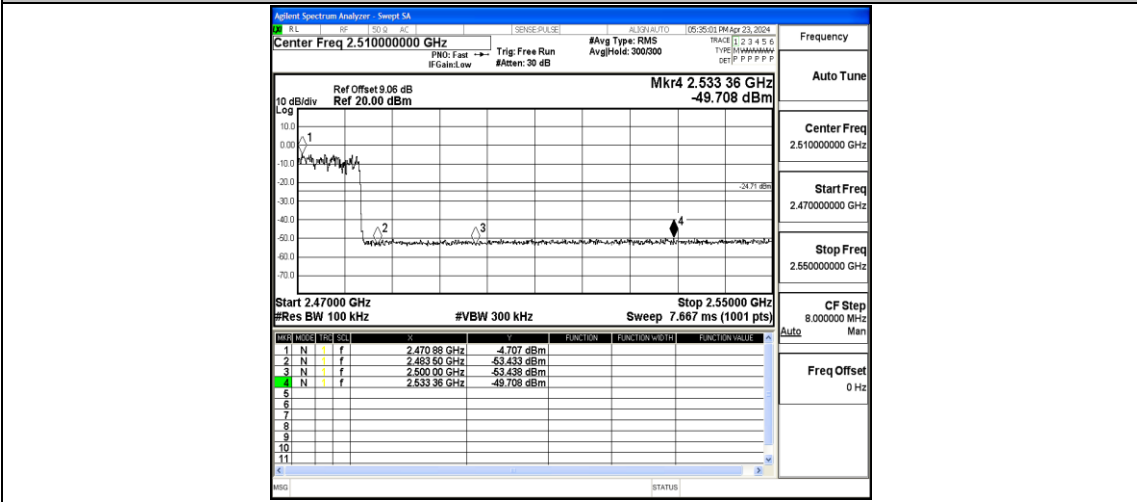
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop\_2402-PASS



3DH5-Ant1-Hop\_2480-PASS

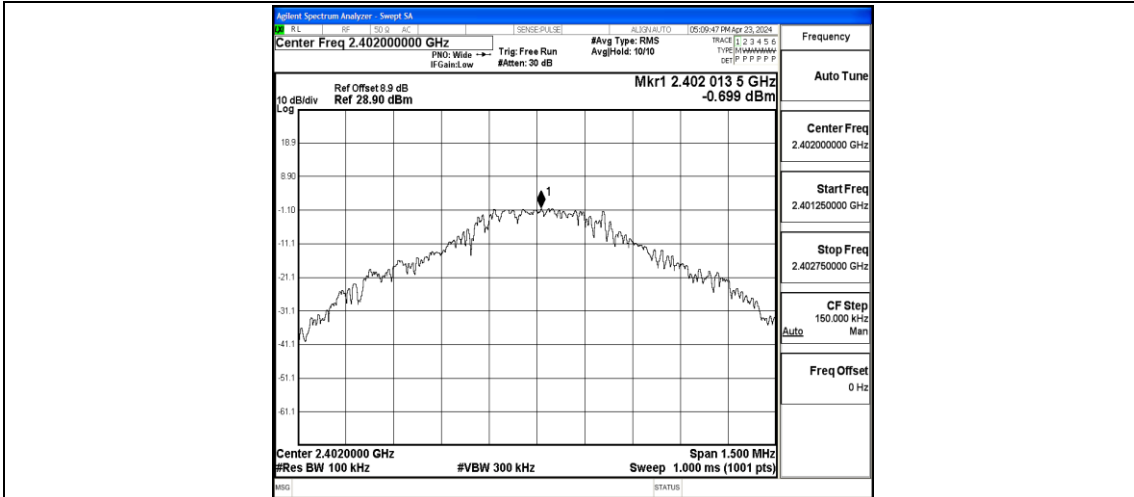


## Appendix H: Conducted Spurious Emission

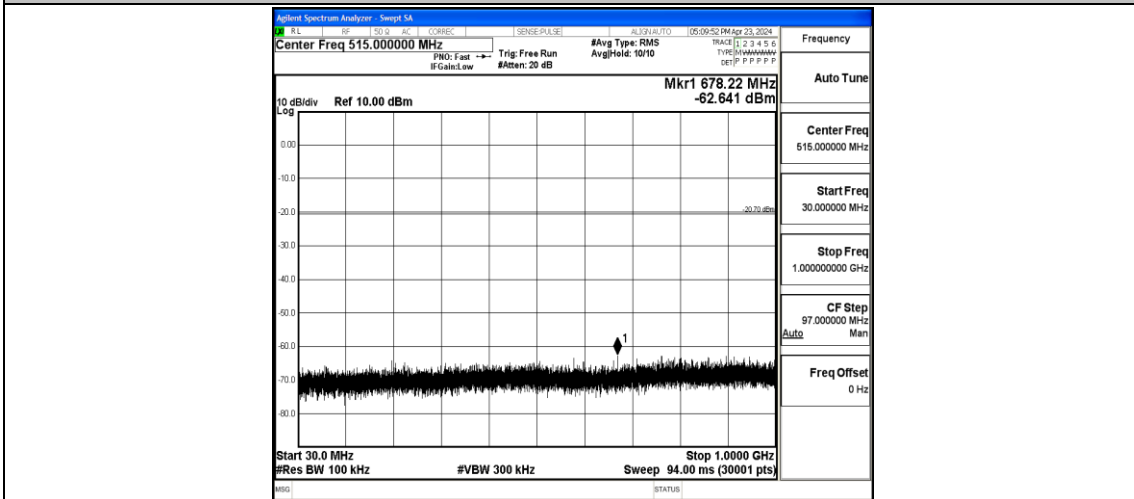
### Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-0.70	-0.70	---	PASS
DH5	Ant1	2402	30~1000	-0.70	-62.64	≤-20.7	PASS
DH5	Ant1	2402	1000~26500	-0.70	-50.12	≤-20.7	PASS
DH5	Ant1	2441	0~Reference	-0.88	-0.88	---	PASS
DH5	Ant1	2441	30~1000	-0.88	-25.47	≤-20.88	PASS
DH5	Ant1	2441	1000~26500	-0.88	-50.49	≤-20.88	PASS
DH5	Ant1	2480	0~Reference	-1.85	-1.85	---	PASS
DH5	Ant1	2480	30~1000	-1.85	-62	≤-21.85	PASS
DH5	Ant1	2480	1000~26500	-1.85	-50.13	≤-21.85	PASS
2DH5	Ant1	2402	0~Reference	-3.96	-3.96	---	PASS
2DH5	Ant1	2402	30~1000	-3.96	-62.75	≤-23.96	PASS
2DH5	Ant1	2402	1000~26500	-3.96	-50.08	≤-23.96	PASS
2DH5	Ant1	2441	0~Reference	-3.96	-3.96	---	PASS
2DH5	Ant1	2441	30~1000	-3.96	-63.17	≤-23.96	PASS
2DH5	Ant1	2441	1000~26500	-3.96	-50.42	≤-23.96	PASS
2DH5	Ant1	2480	0~Reference	-5.28	-5.28	---	PASS
2DH5	Ant1	2480	30~1000	-5.28	-63.21	≤-25.28	PASS
2DH5	Ant1	2480	1000~26500	-5.28	-50.47	≤-25.28	PASS
3DH5	Ant1	2402	0~Reference	-3.89	-3.89	---	PASS
3DH5	Ant1	2402	30~1000	-3.89	-62.8	≤-23.89	PASS
3DH5	Ant1	2402	1000~26500	-3.89	-49.36	≤-23.89	PASS
3DH5	Ant1	2441	0~Reference	-4.30	-4.30	---	PASS
3DH5	Ant1	2441	30~1000	-4.30	-62.87	≤-24.3	PASS
3DH5	Ant1	2441	1000~26500	-4.30	-50.58	≤-24.3	PASS
3DH5	Ant1	2480	0~Reference	-5.22	-5.22	---	PASS
3DH5	Ant1	2480	30~1000	-5.22	-62.75	≤-25.22	PASS
3DH5	Ant1	2480	1000~26500	-5.22	-50.43	≤-25.22	PASS

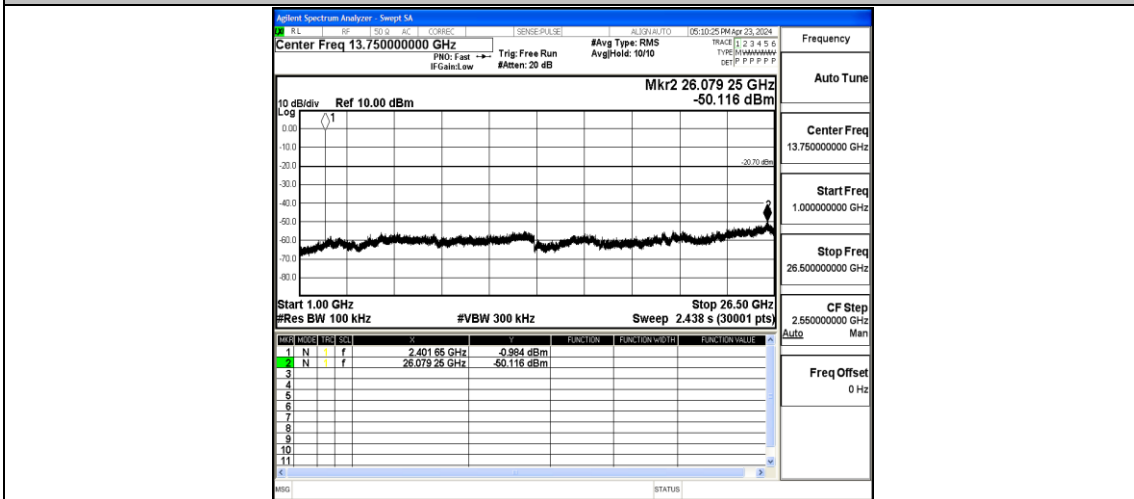
### Test Graphs



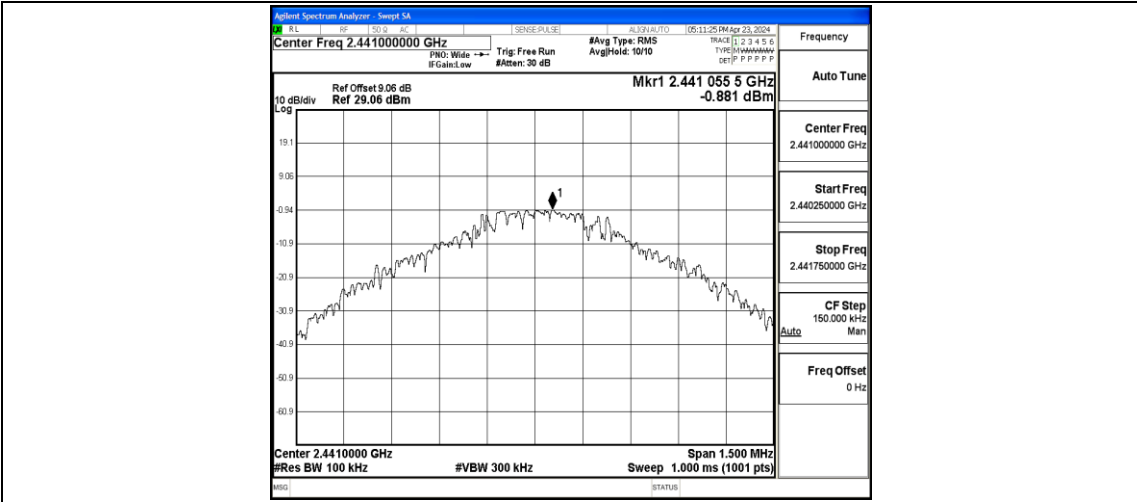
DH5-Ant1-2402-0~Reference-PASS



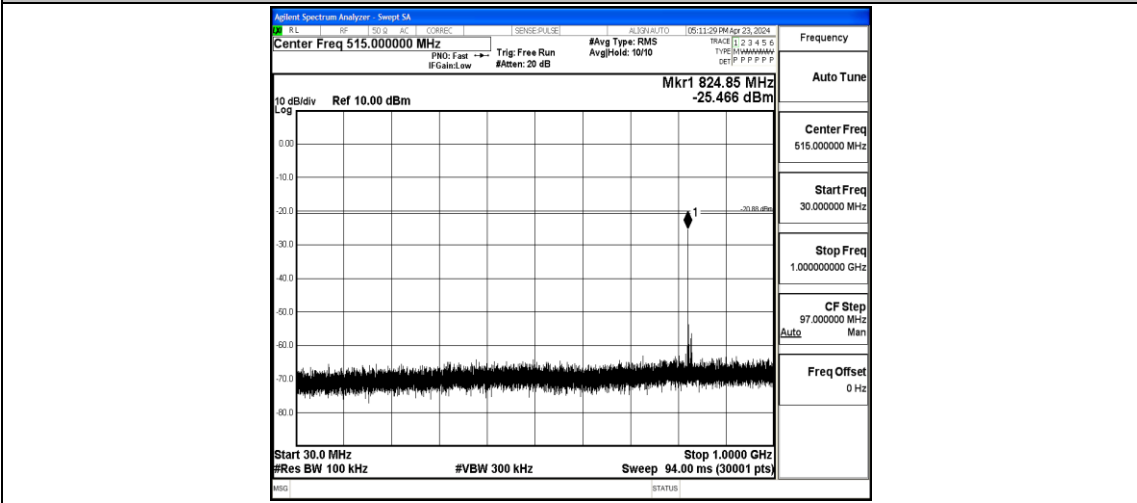
DH5-Ant1-2402-30~1000-PASS



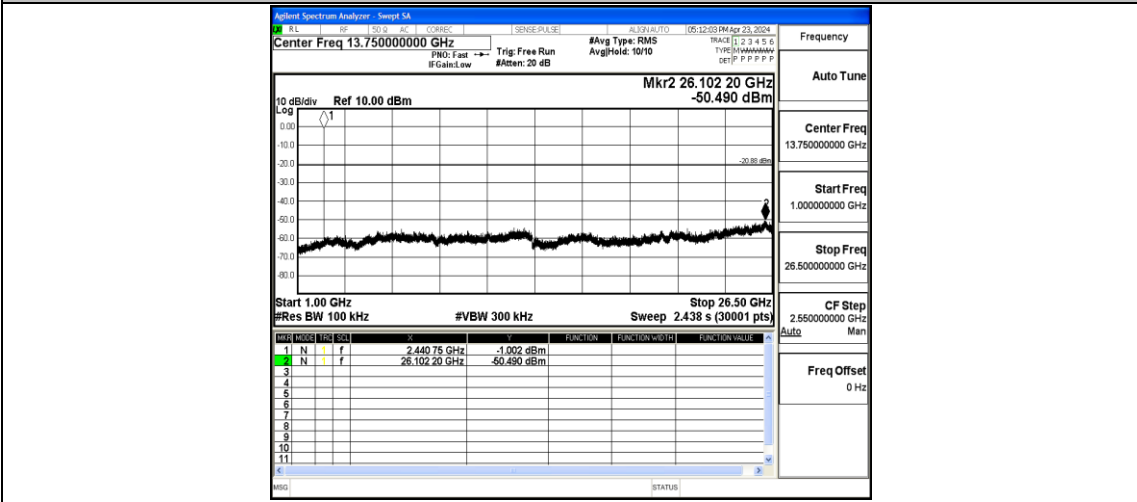
DH5-Ant1-2402-1000~26500-PASS



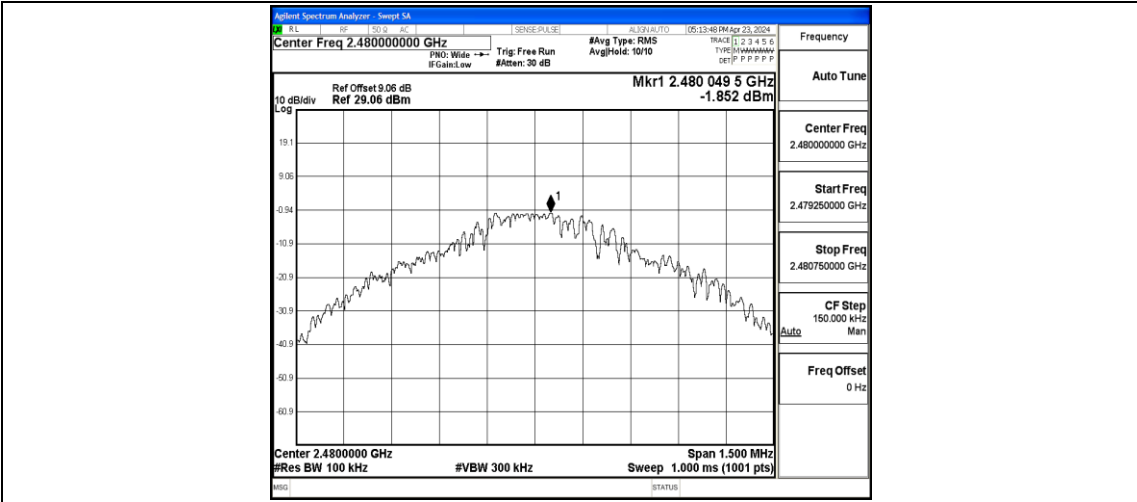
DH5-Ant1-2441-0~Reference-PASS



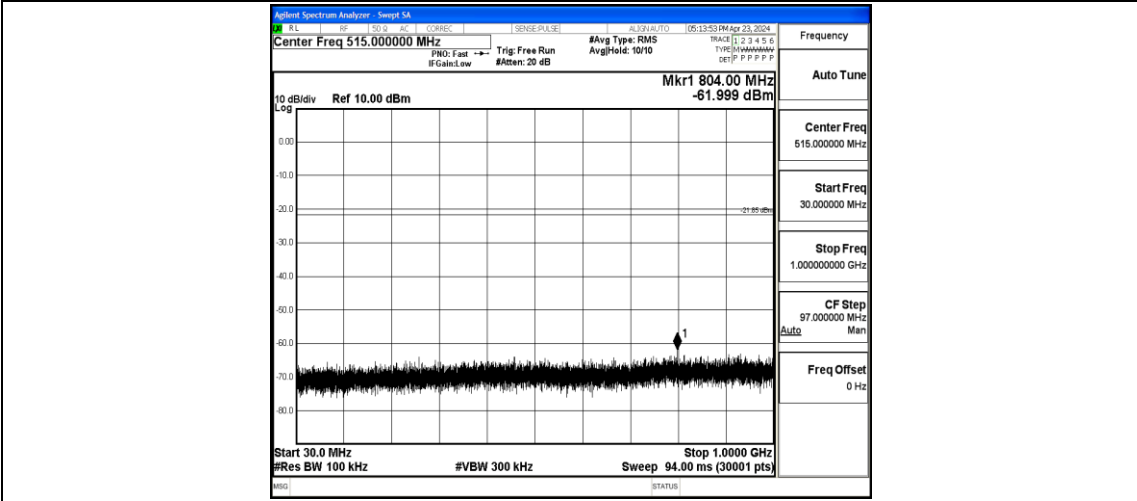
DH5-Ant1-2441-30~1000-PASS



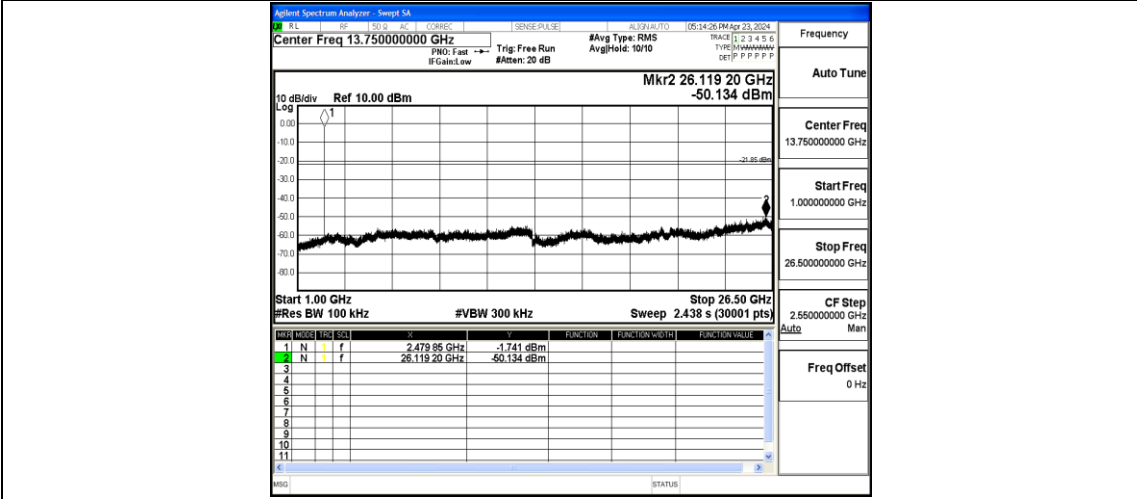
DH5-Ant1-2441-1000~26500-PASS



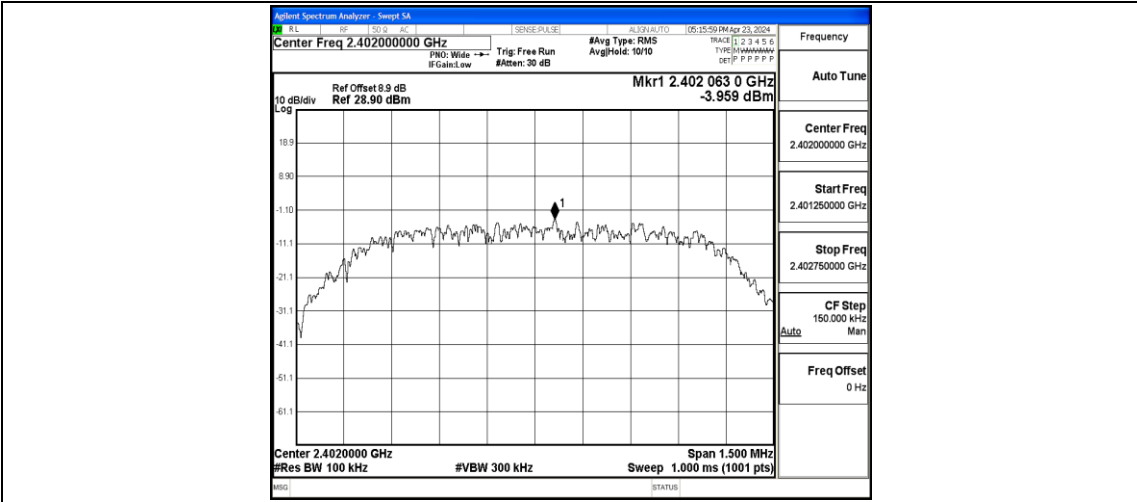
DH5-Ant1-2480-0~Reference-PASS



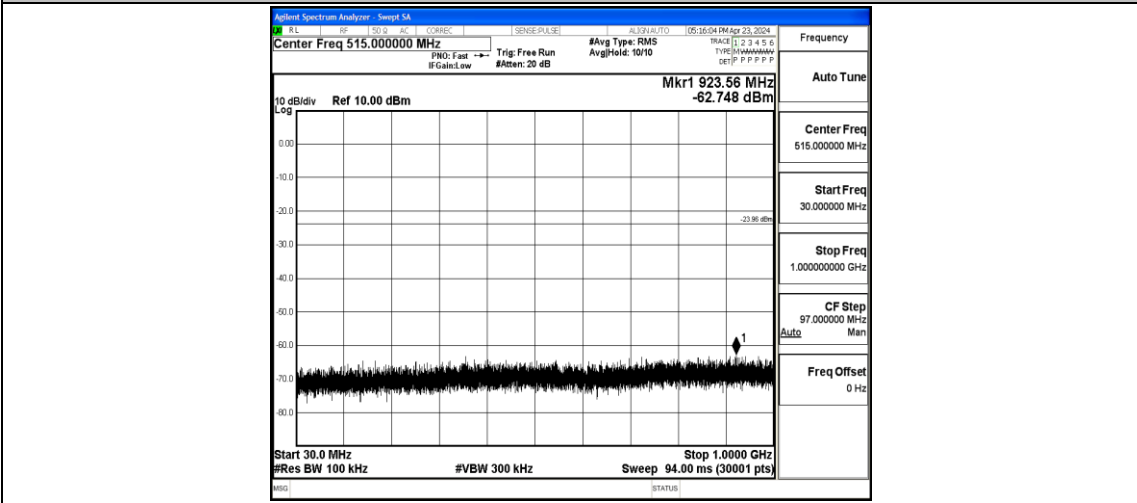
DH5-Ant1-2480-30~1000-PASS



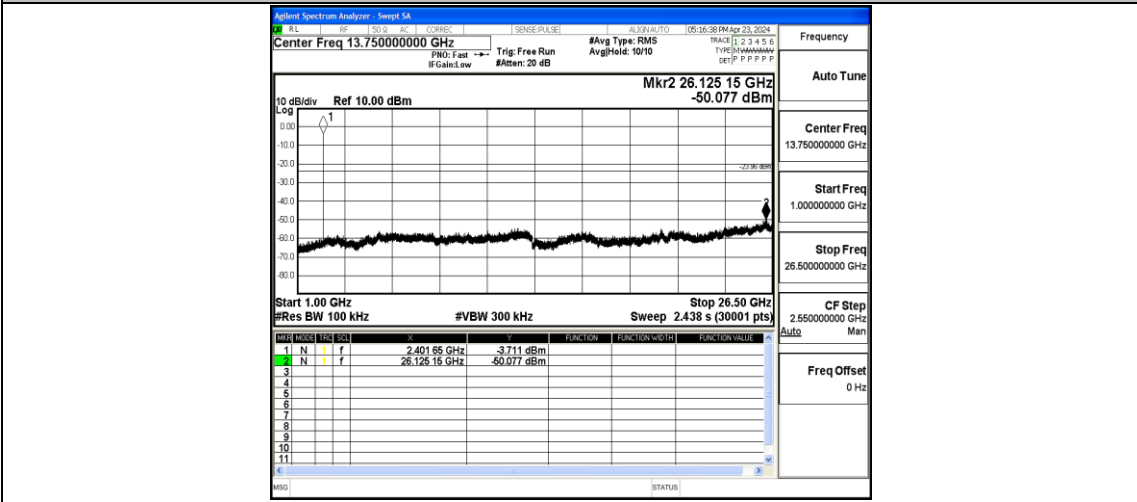
DH5-Ant1-2480-1000~26500-PASS



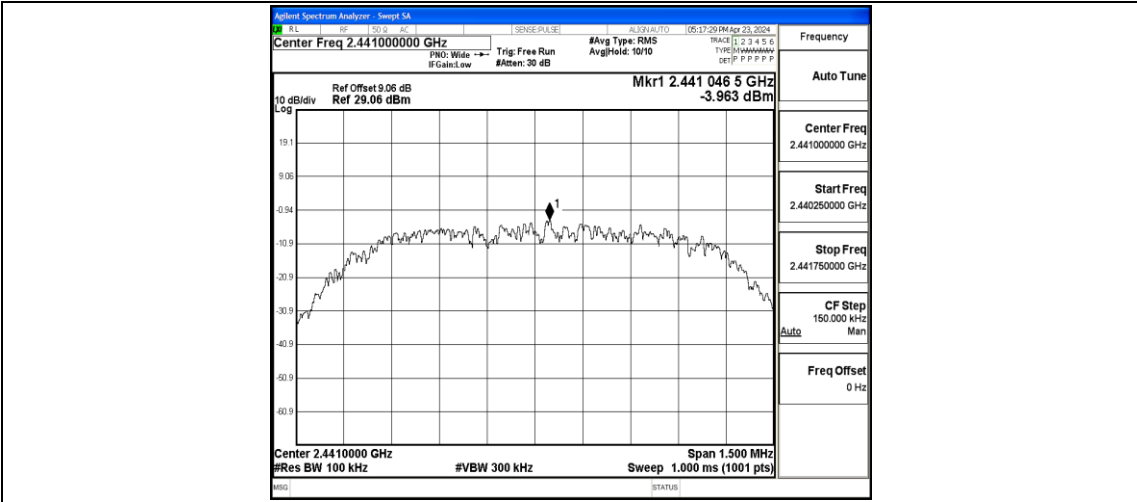
2DH5-Ant1-2402-0~Reference-PASS



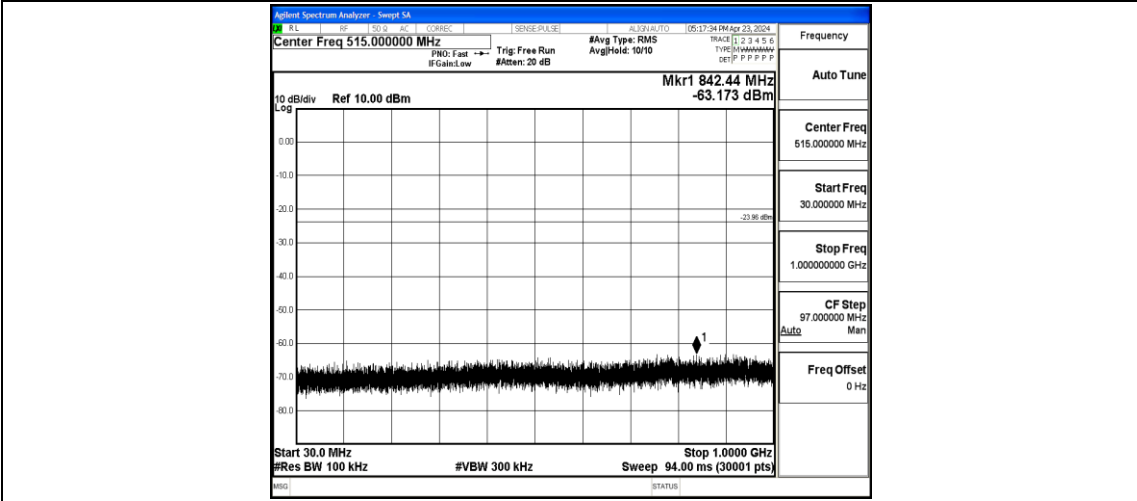
2DH5-Ant1-2402-30~1000-PASS



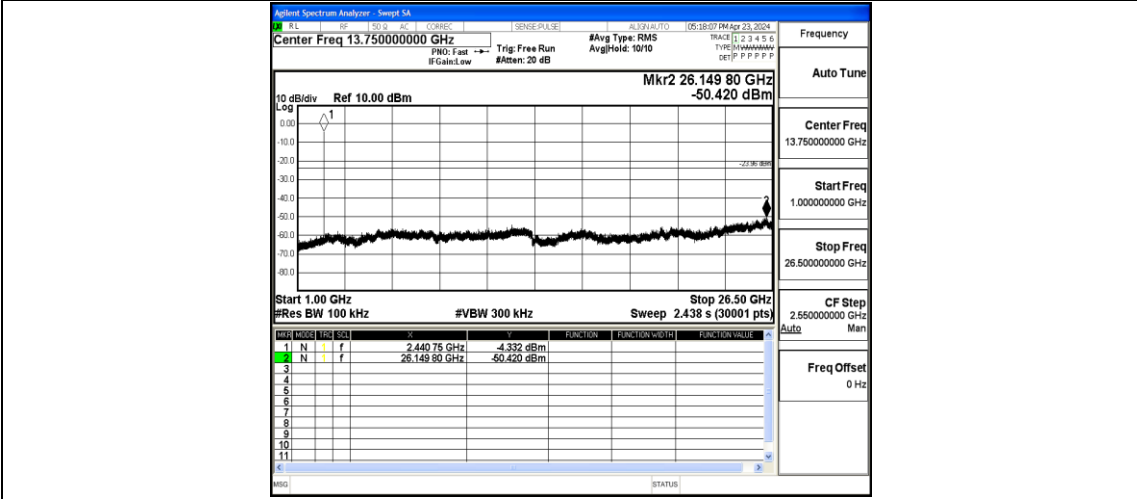
2DH5-Ant1-2402-1000~26500-PASS



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



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



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