

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

Product Name: WIRELESS MICROPHONE

Trade Mark: Singing Machine

Test Model: MIC9015

FCC ID: 2AAXO-MIC9015

### Environmental Conditions

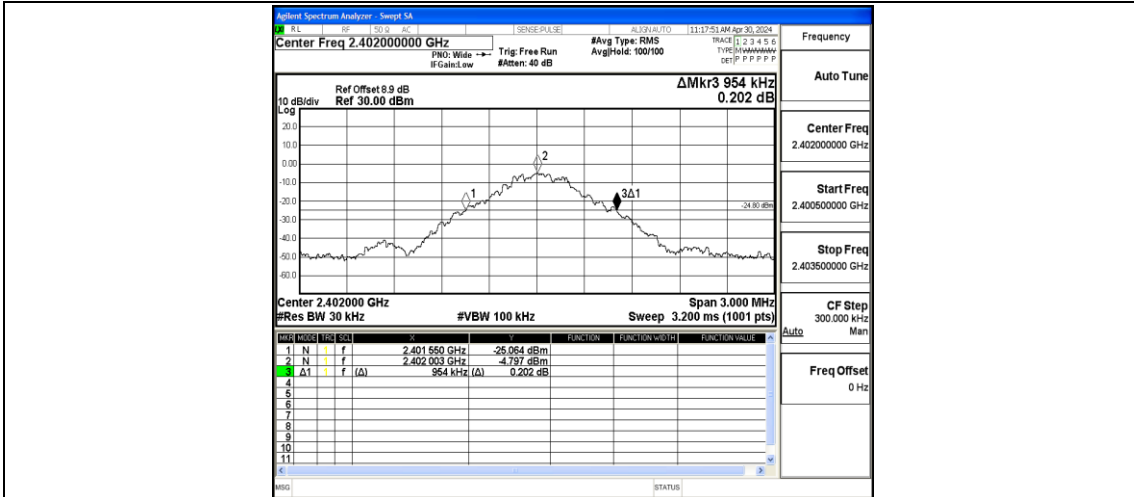
Temperature:	23.8°C
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

## Appendix A: 20dB Emission Bandwidth

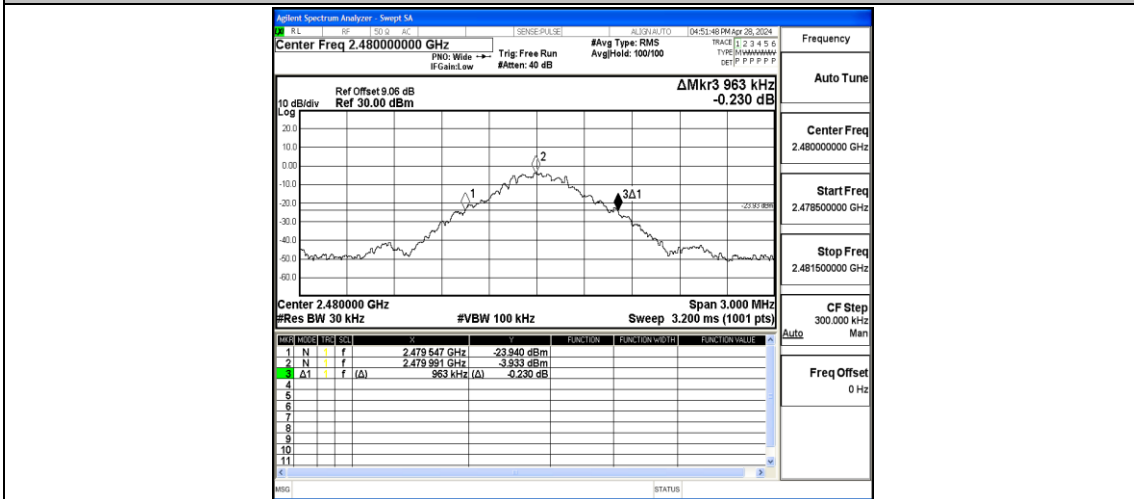
### Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.550	2402.504	---	---
DH5	Ant1	2480	0.963	2479.547	2480.510	---	---
2DH5	Ant1	2402	1.314	2401.358	2402.672	---	---
2DH5	Ant1	2441	1.308	2440.361	2441.669	---	---
2DH5	Ant1	2480	1.353	2479.343	2480.696	---	---

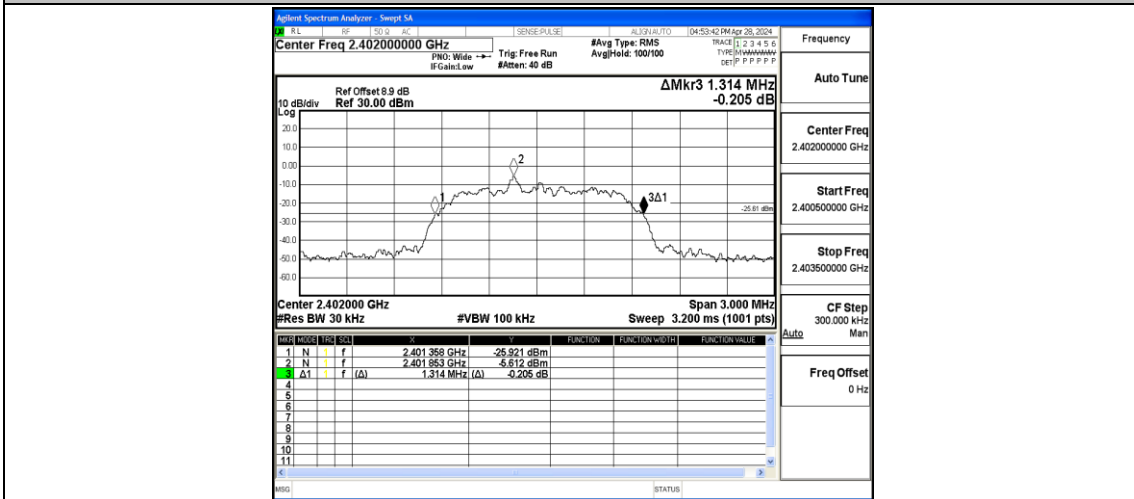
### Test Graphs



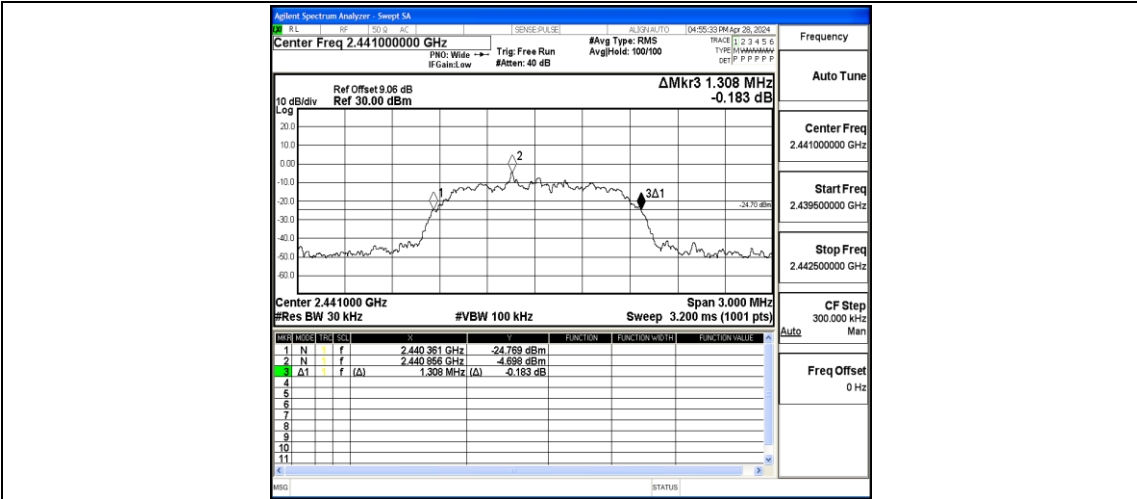
DH5-Ant1-2402



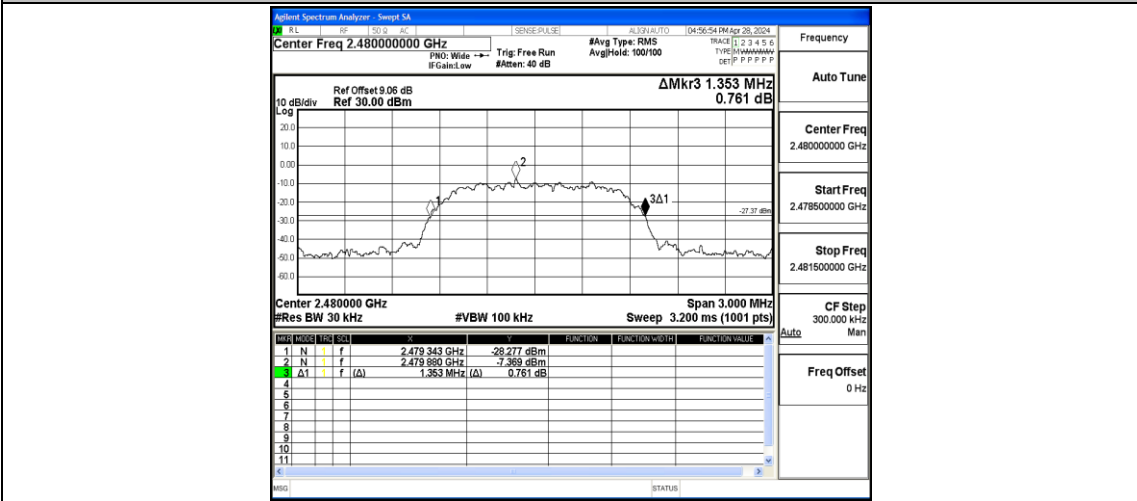
DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



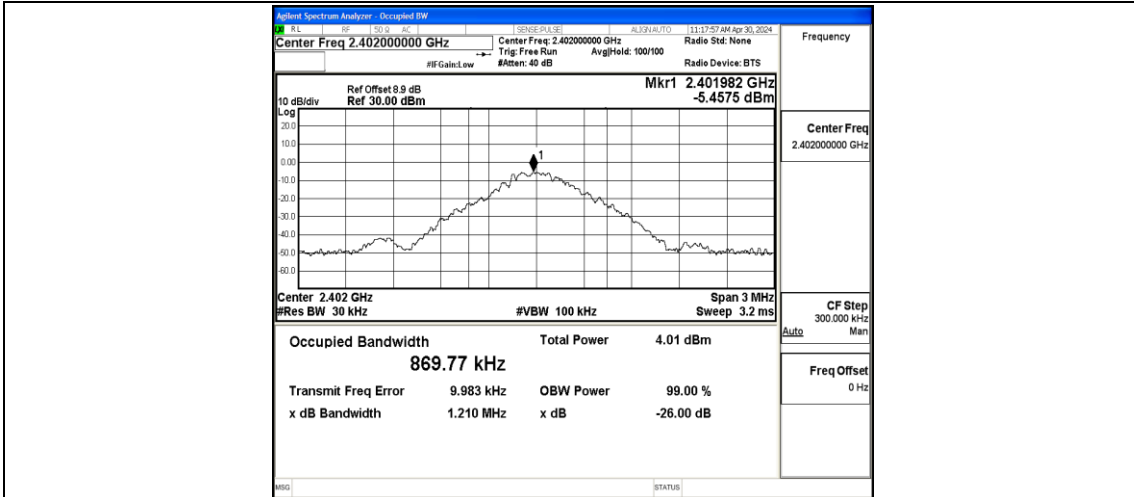
2DH5-Ant1-2480

## Appendix B: Occupied Channel Bandwidth

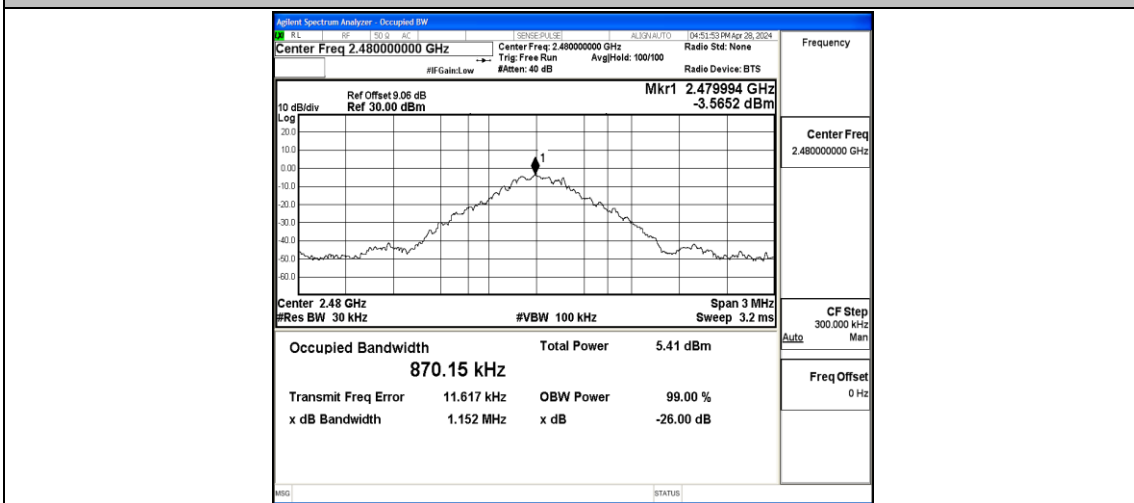
### Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86977	2401.5751	2402.4449	---	---
DH5	Ant1	2480	0.87015	2479.5765	2480.4467	---	---
2DH5	Ant1	2402	1.1984	2401.4151	2402.6135	---	---
2DH5	Ant1	2441	1.1932	2440.4195	2441.6127	---	---
2DH5	Ant1	2480	1.1931	2479.4183	2480.6114	---	---

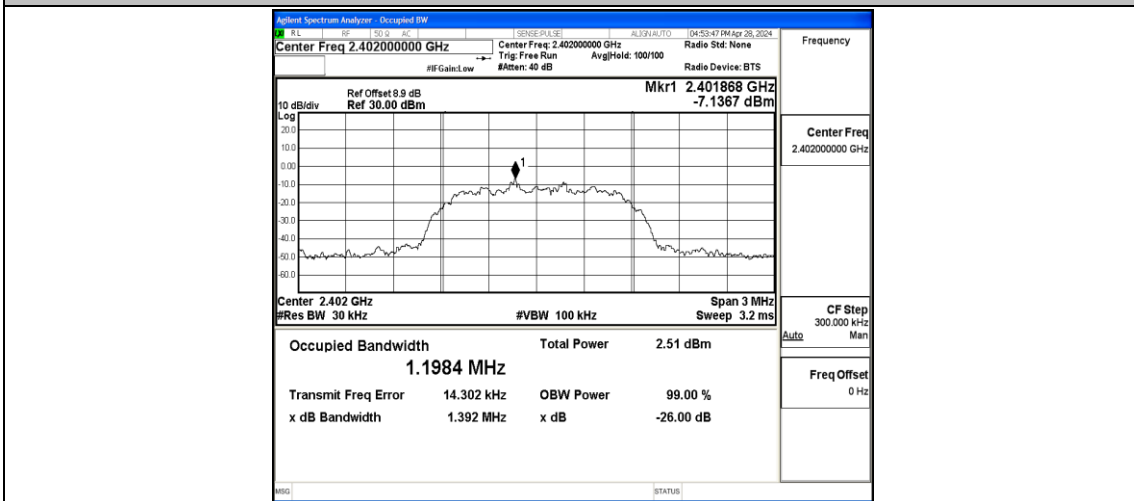
### Test Graphs



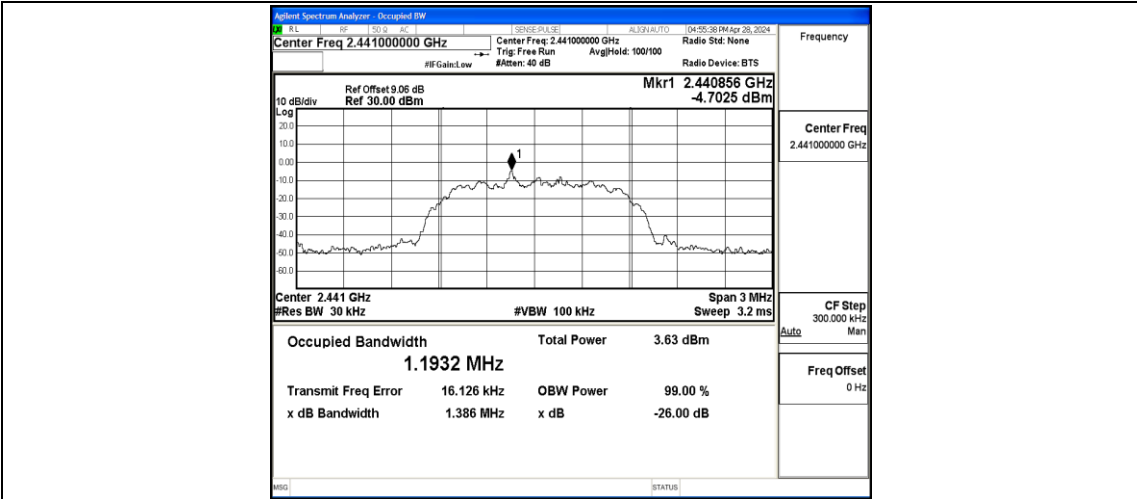
DH5-Ant1-2402



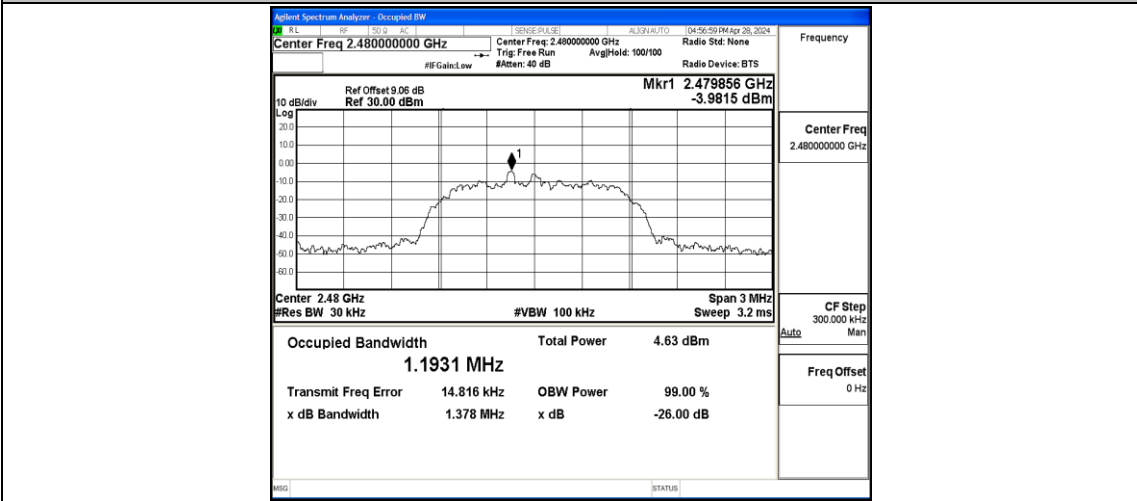
DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



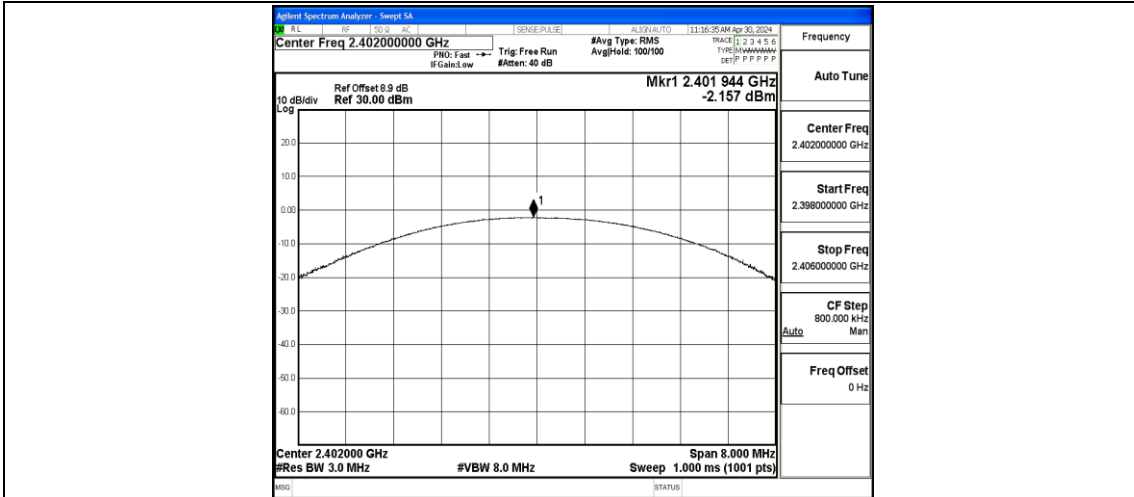
2DH5-Ant1-2480

## Appendix C: Maximum peak conducted output power

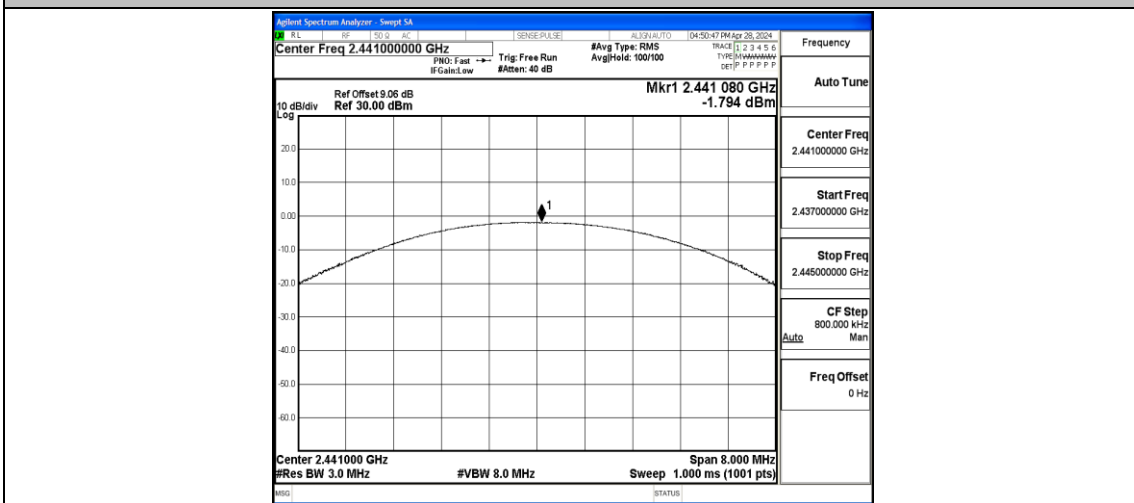
### Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-2.16	≤30	PASS
DH5	Ant1	2441	-1.79	≤30	PASS
DH5	Ant1	2480	-1.00	≤30	PASS
2DH5	Ant1	2402	-1.87	≤20.97	PASS
2DH5	Ant1	2441	-0.97	≤20.97	PASS
2DH5	Ant1	2480	-0.13	≤20.97	PASS

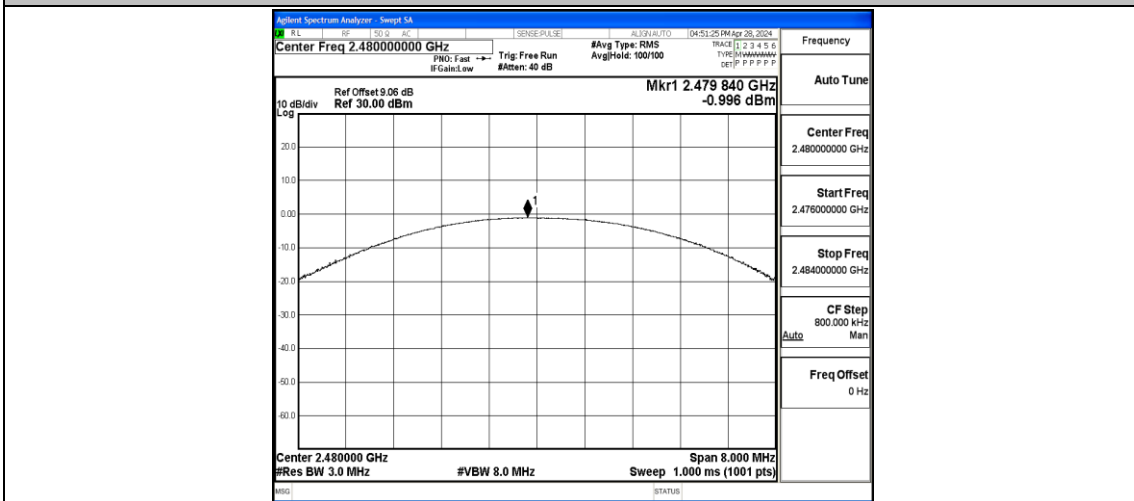
### Test Graphs



DH5-Ant1-2402-PASS

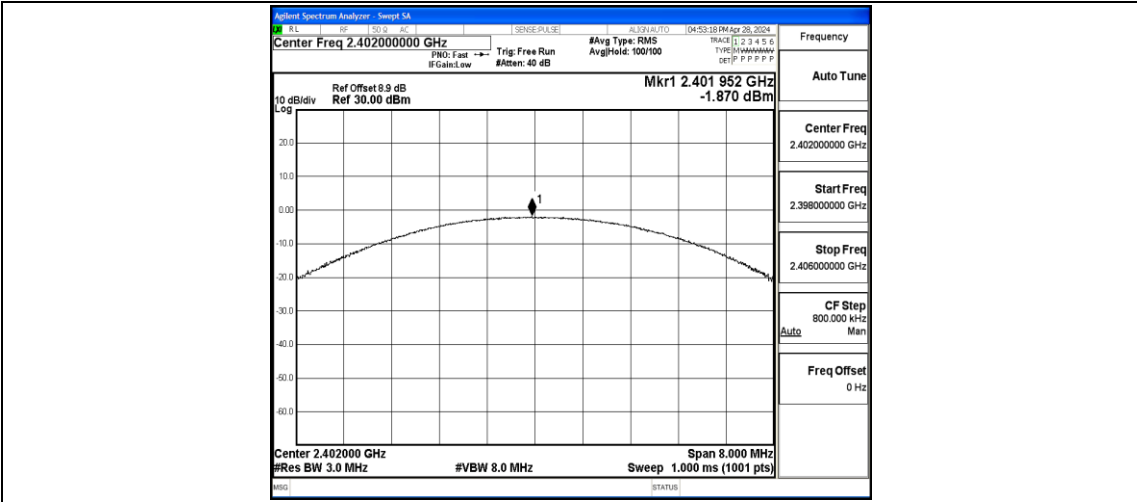


DH5-Ant1-2441-PASS

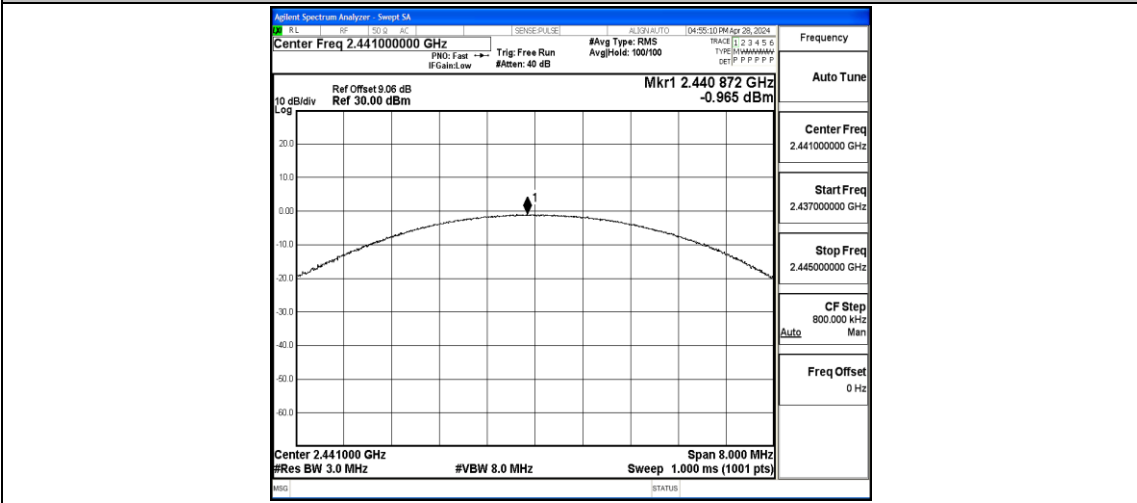


DH5-Ant1-2480-PASS

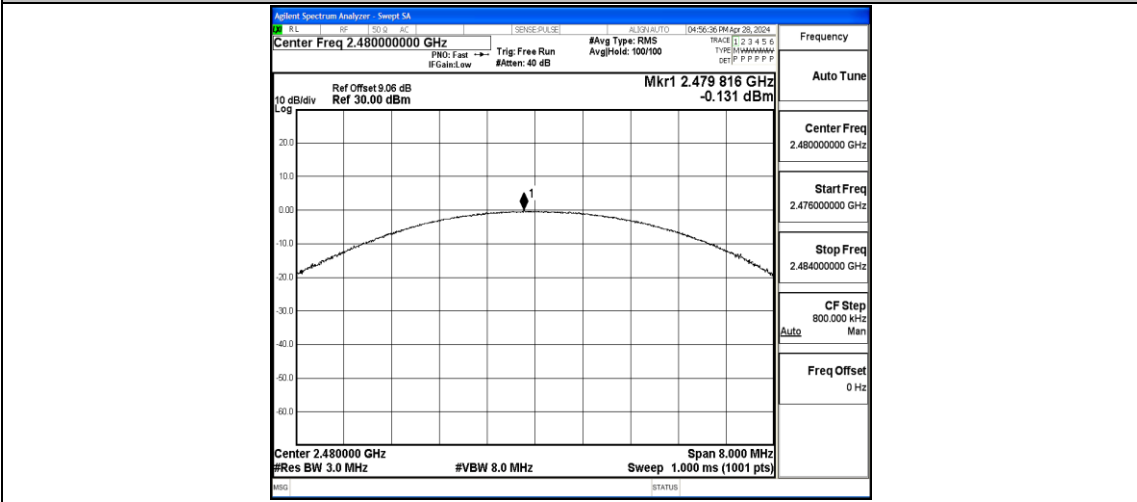




2DH5-Ant1-2402-PASS



2DH5-Ant1-2441-PASS



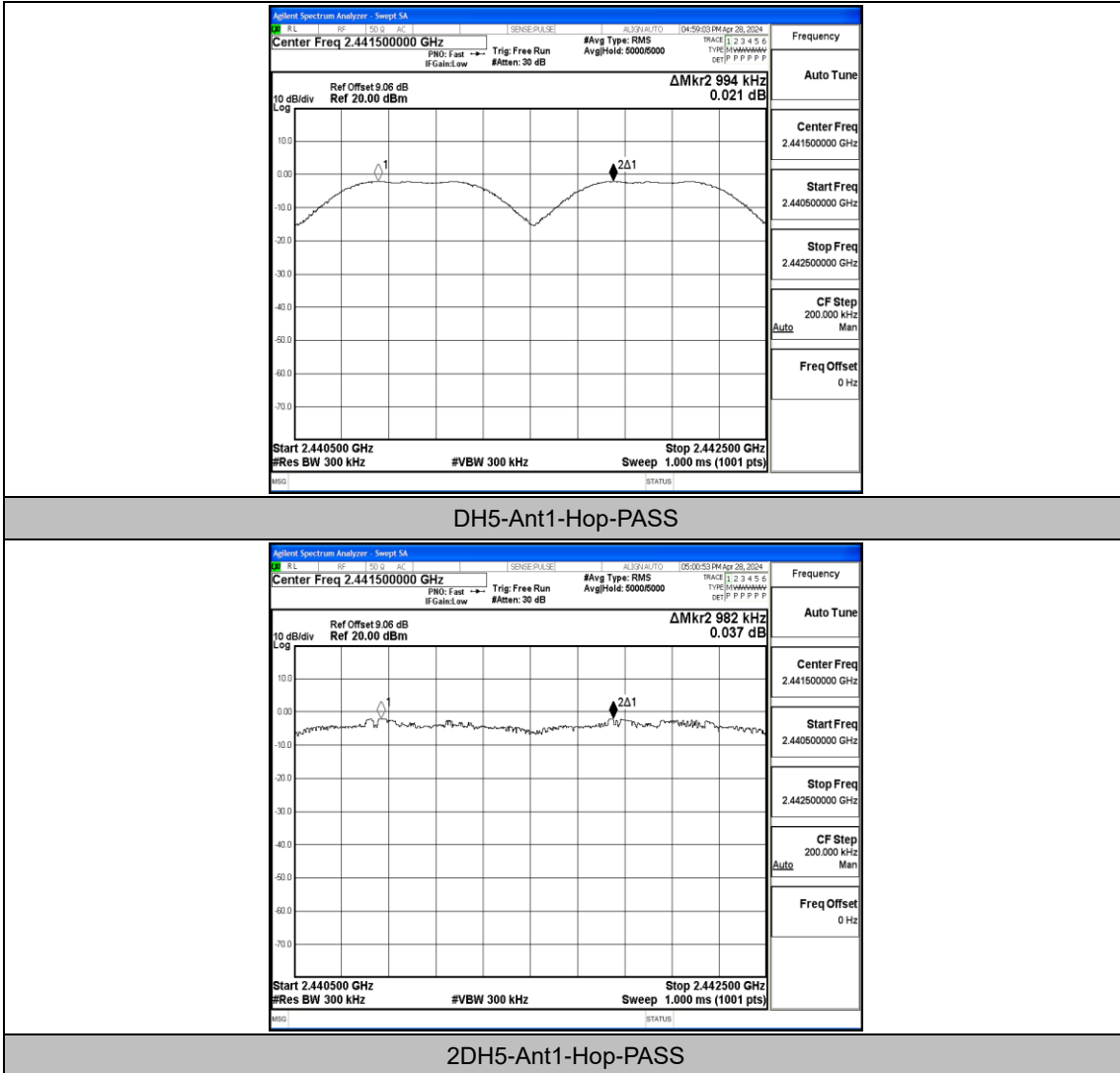
2DH5-Ant1-2480-PASS

## Appendix D: Carrier frequency separation

### Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.994	$\geq 0.963$	PASS
2DH5	Ant1	Hop	0.982	$\geq 0.902$	PASS

### Test Graphs

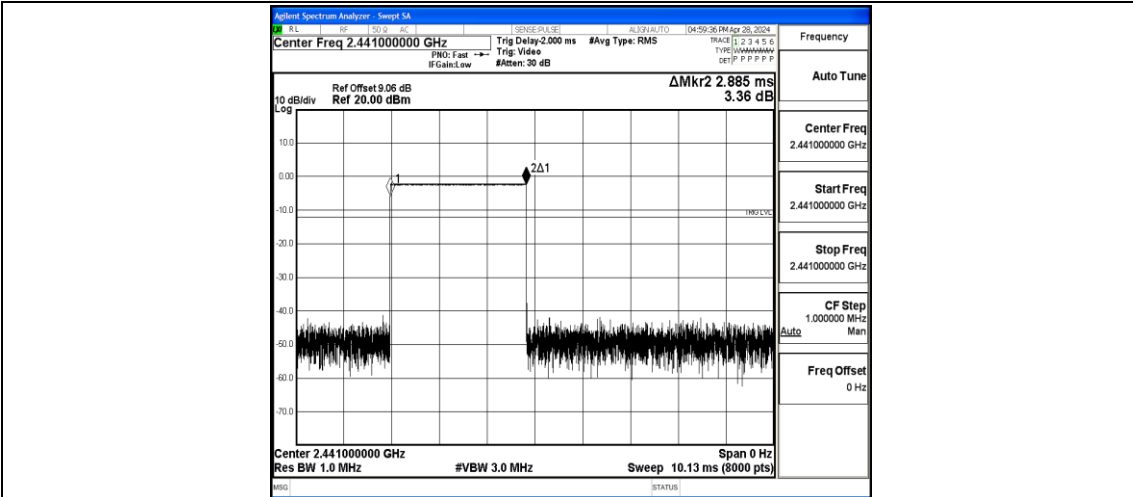


## Appendix E: Time of occupancy

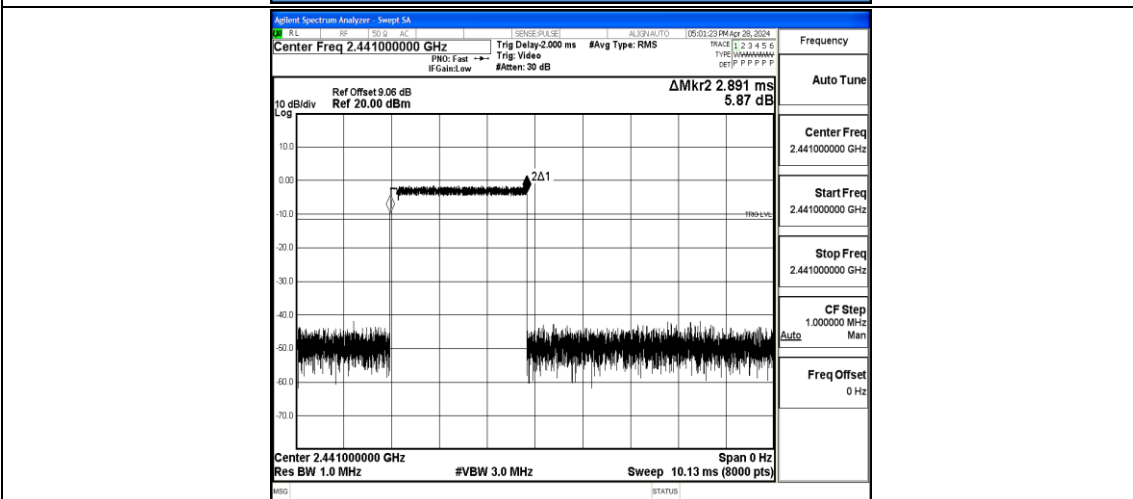
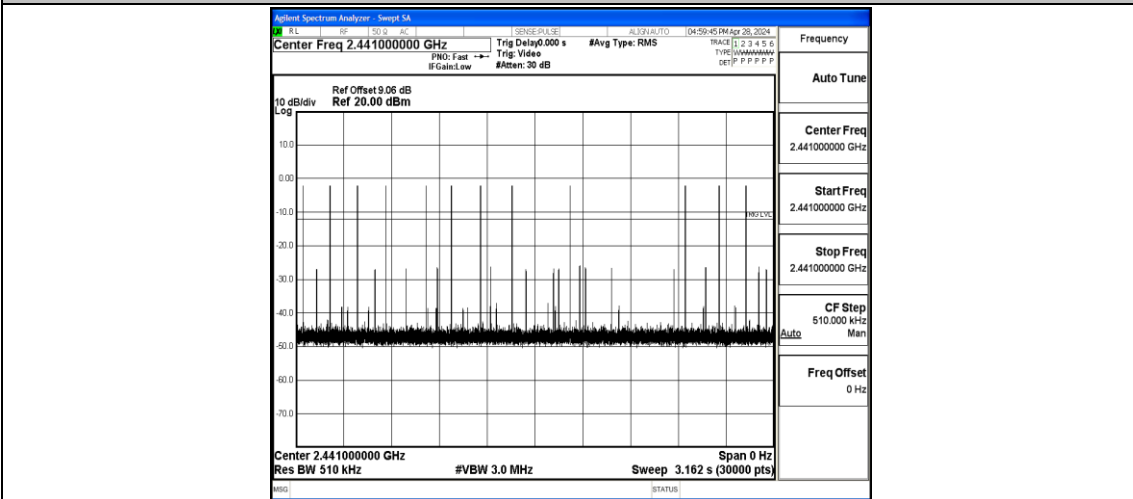
### Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.885	130	0.375	≤0.4	PASS
2DH5	Ant1	Hop	2.891	80	0.231	≤0.4	PASS

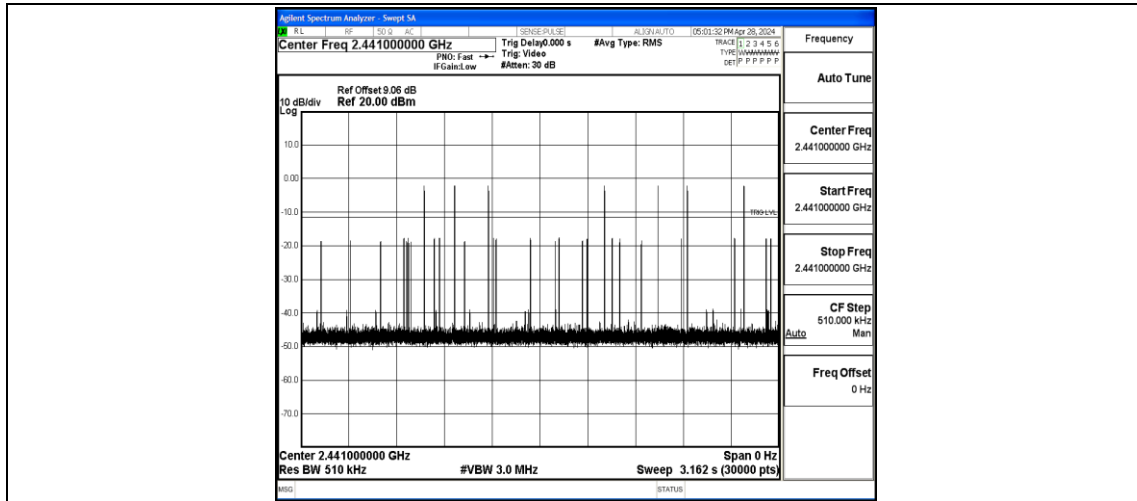
### Test Graphs



DH5-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



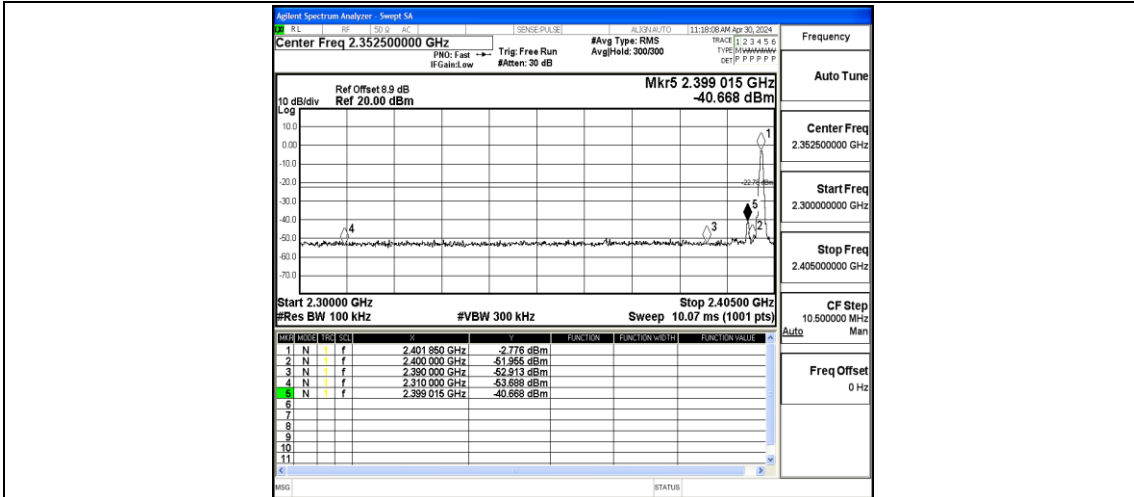


## Appendix G: Band edge measurements

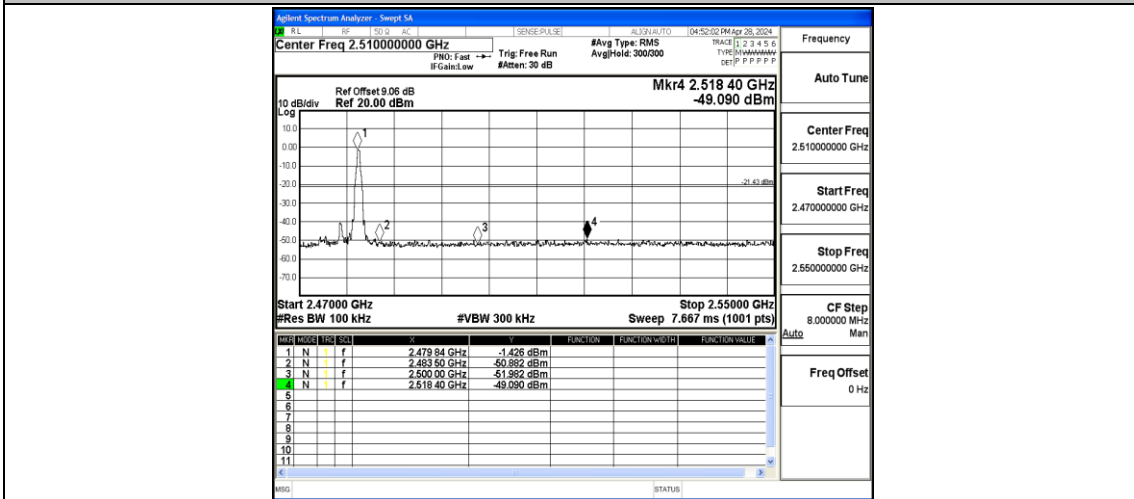
### Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.78	-40.67	≤-22.78	PASS
DH5	Ant1	High	2480	-1.43	-49.09	≤-21.43	PASS
DH5	Ant1	Low	Hop_2402	-3.32	-43.97	≤-23.32	PASS
DH5	Ant1	High	Hop_2480	-1.55	-49.24	≤-21.55	PASS
2DH5	Ant1	Low	2402	-4.23	-42.42	≤-24.23	PASS
2DH5	Ant1	High	2480	-1.28	-49.48	≤-21.28	PASS
2DH5	Ant1	Low	Hop_2402	-5.20	-46.44	≤-25.2	PASS
2DH5	Ant1	High	Hop_2480	-4.27	-48.69	≤-24.27	PASS

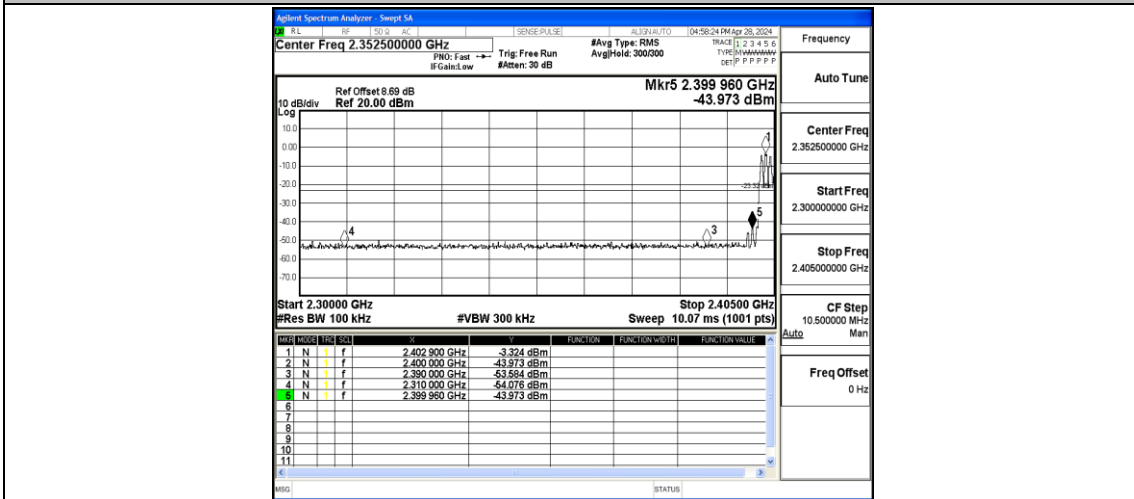
### Test Graphs



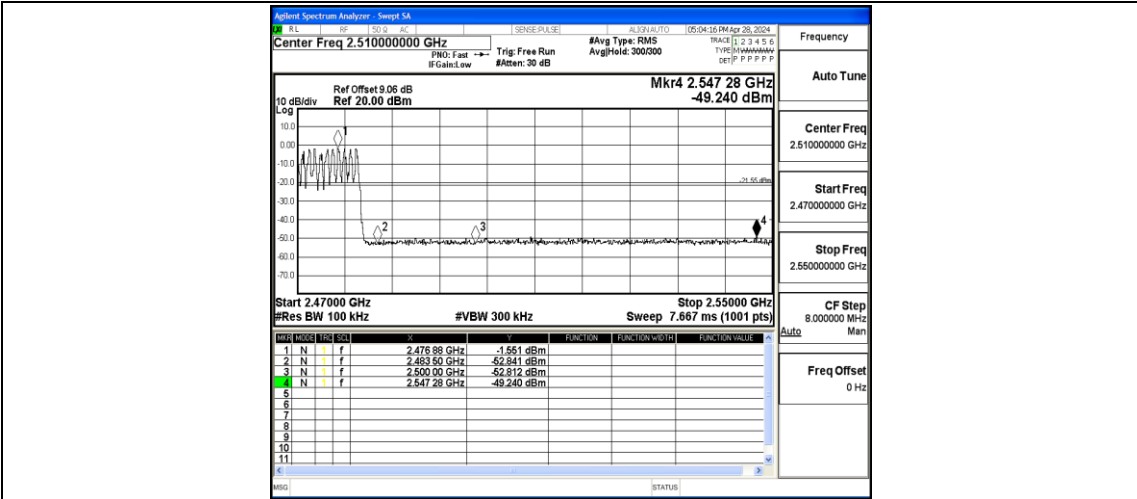
DH5-Ant1-2402-PASS



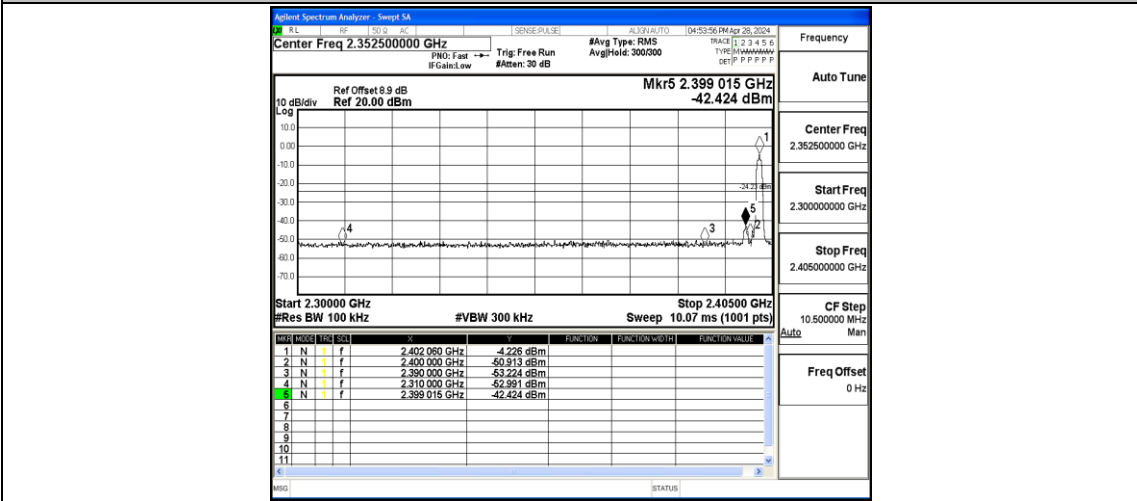
DH5-Ant1-2480-PASS



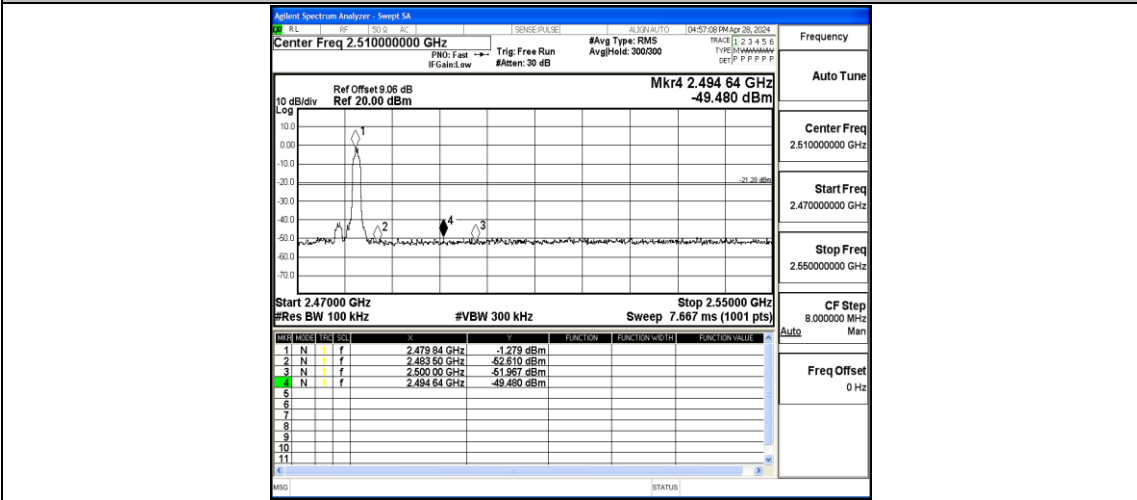
DH5-Ant1-Hop\_2402-PASS



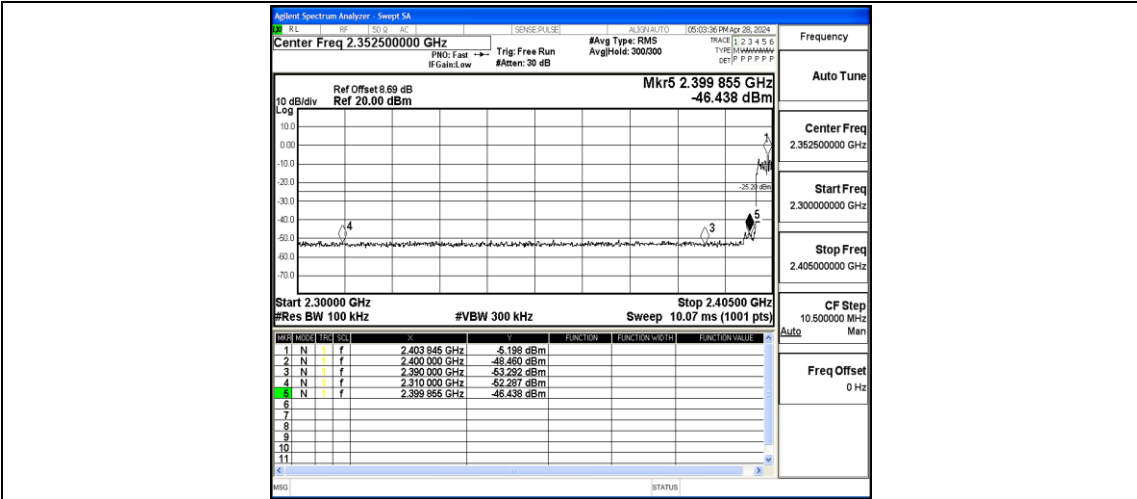
DH5-Ant1-Hop\_2480-PASS



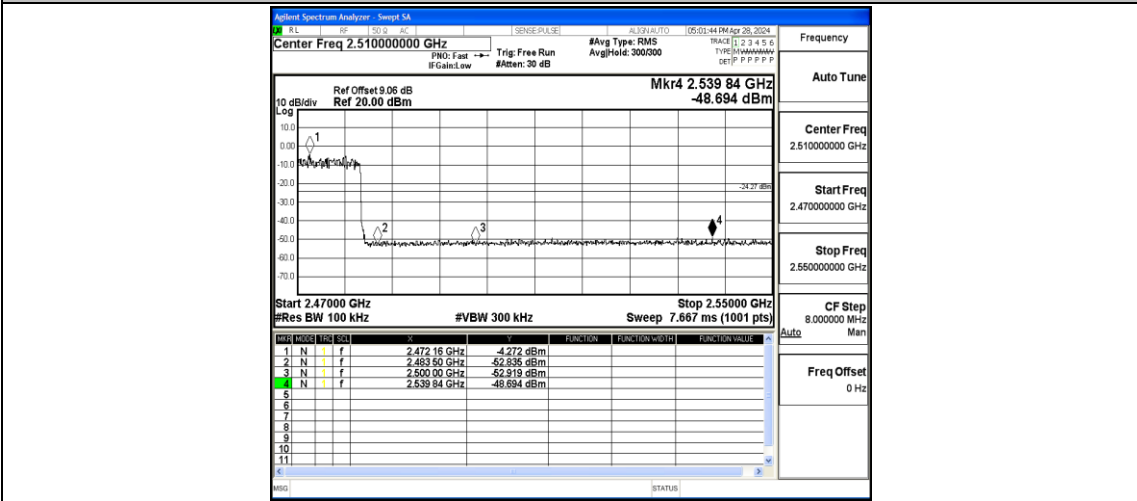
2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS



2DH5-Ant1-Hop\_2402-PASS



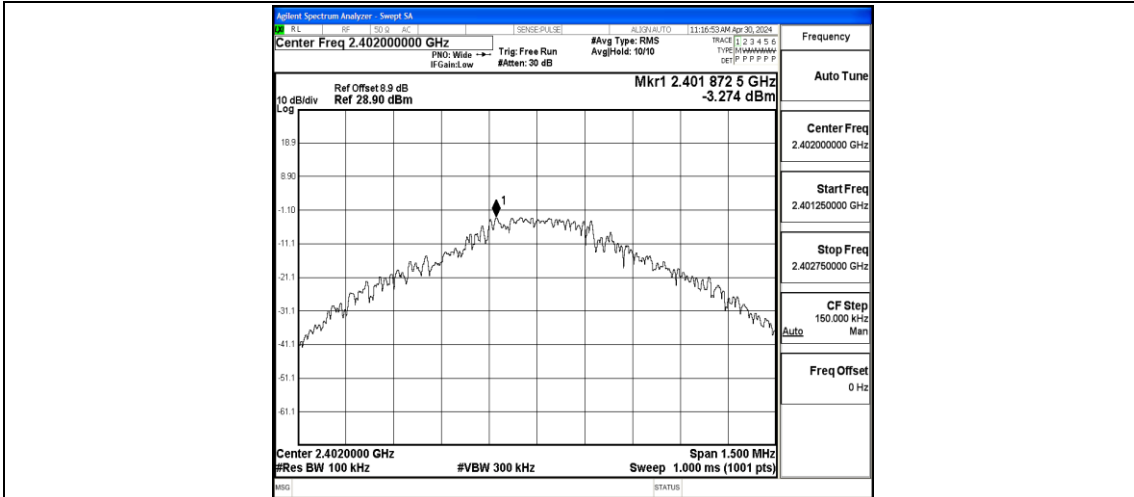
2DH5-Ant1-Hop\_2480-PASS

## Appendix H: Conducted Spurious Emission

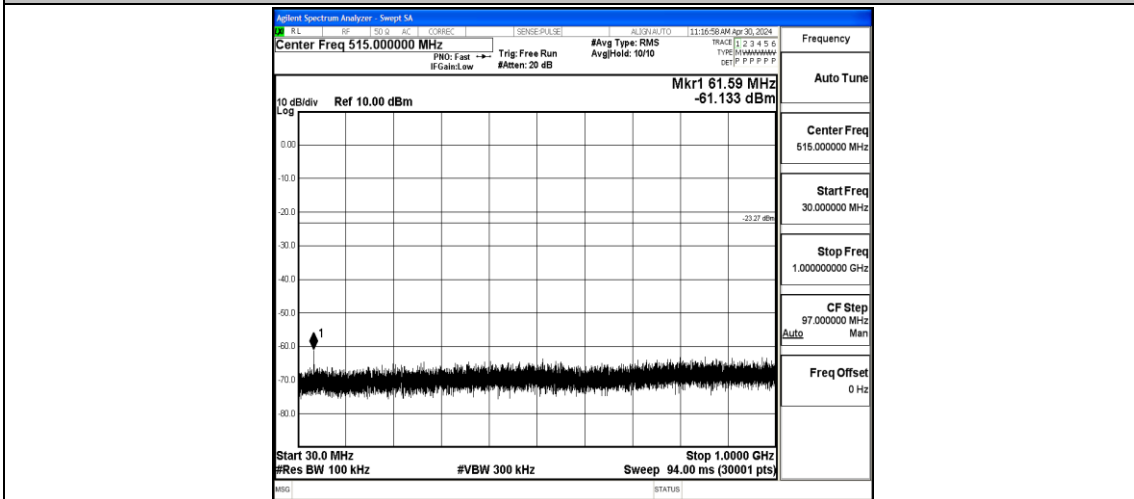
### Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-3.27	-3.27	---	PASS
DH5	Ant1	2402	30~1000	-3.27	-61.13	≤-23.27	PASS
DH5	Ant1	2402	1000~26500	-3.27	-46.87	≤-23.27	PASS
DH5	Ant1	2480	0~Reference	-1.61	-1.61	---	PASS
DH5	Ant1	2480	30~1000	-1.61	-62.7	≤-21.61	PASS
DH5	Ant1	2480	1000~26500	-1.61	-49.91	≤-21.61	PASS
2DH5	Ant1	2402	0~Reference	-3.28	-3.28	---	PASS
2DH5	Ant1	2402	30~1000	-3.28	-62.35	≤-23.28	PASS
2DH5	Ant1	2402	1000~26500	-3.28	-50.35	≤-23.28	PASS
2DH5	Ant1	2441	0~Reference	-3.72	-3.72	---	PASS
2DH5	Ant1	2441	30~1000	-3.72	-61.01	≤-23.72	PASS
2DH5	Ant1	2441	1000~26500	-3.72	-50.27	≤-23.72	PASS
2DH5	Ant1	2480	0~Reference	-2.77	-2.77	---	PASS
2DH5	Ant1	2480	30~1000	-2.77	-61.88	≤-22.77	PASS
2DH5	Ant1	2480	1000~26500	-2.77	-49.83	≤-22.77	PASS

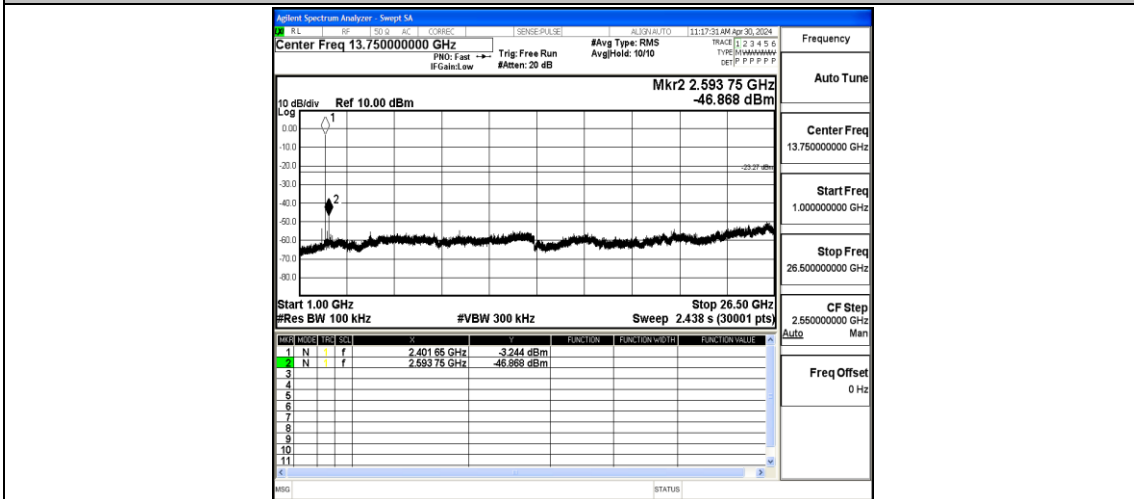
### Test Graphs



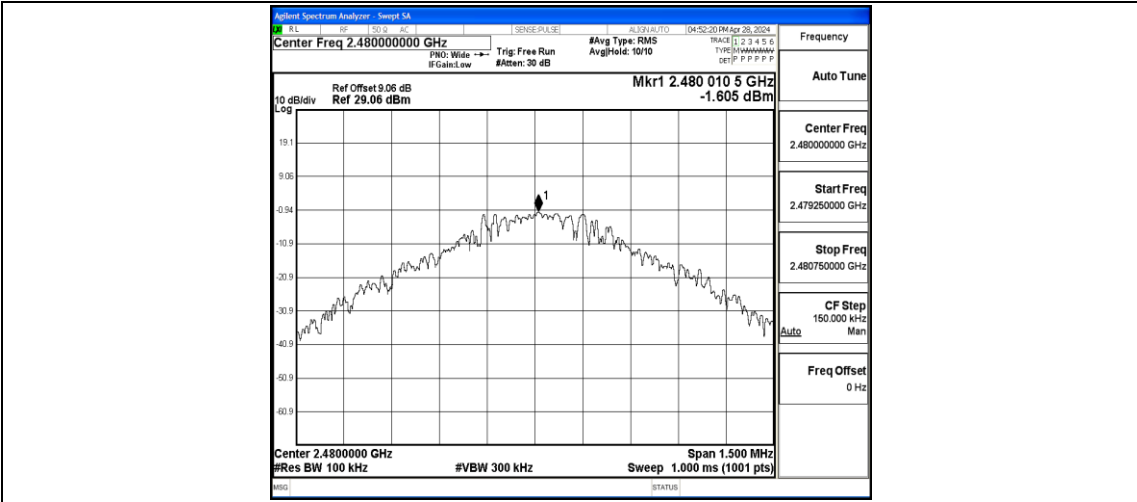
DH5-Ant1-2402-0~Reference-PASS



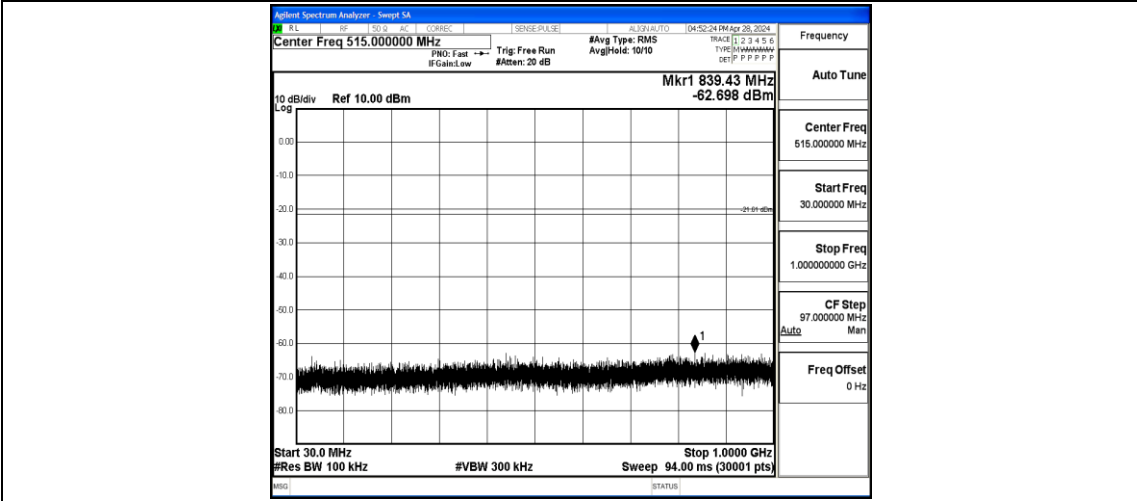
DH5-Ant1-2402-30~1000-PASS



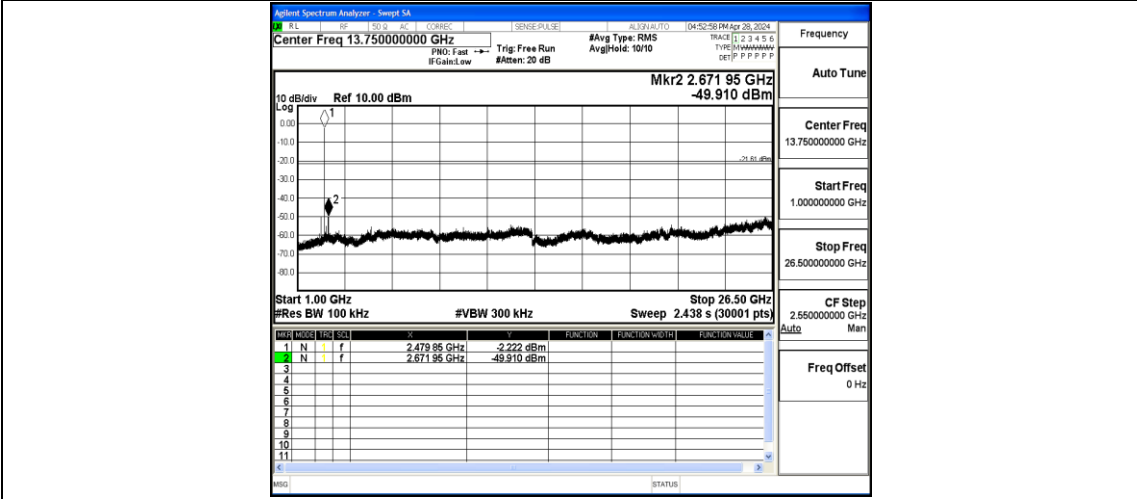
DH5-Ant1-2402-1000~26500-PASS



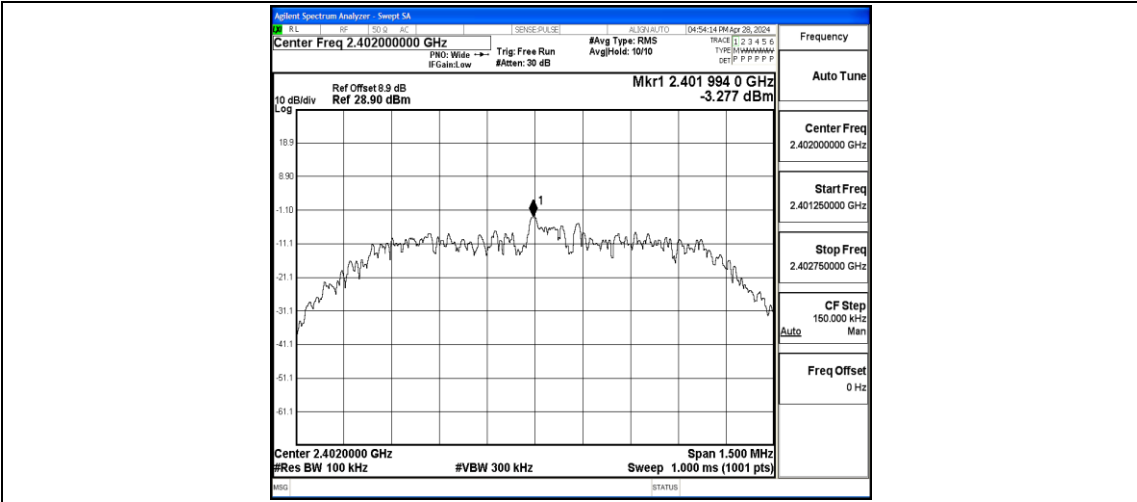
DH5-Ant1-2480-0~Reference-PASS



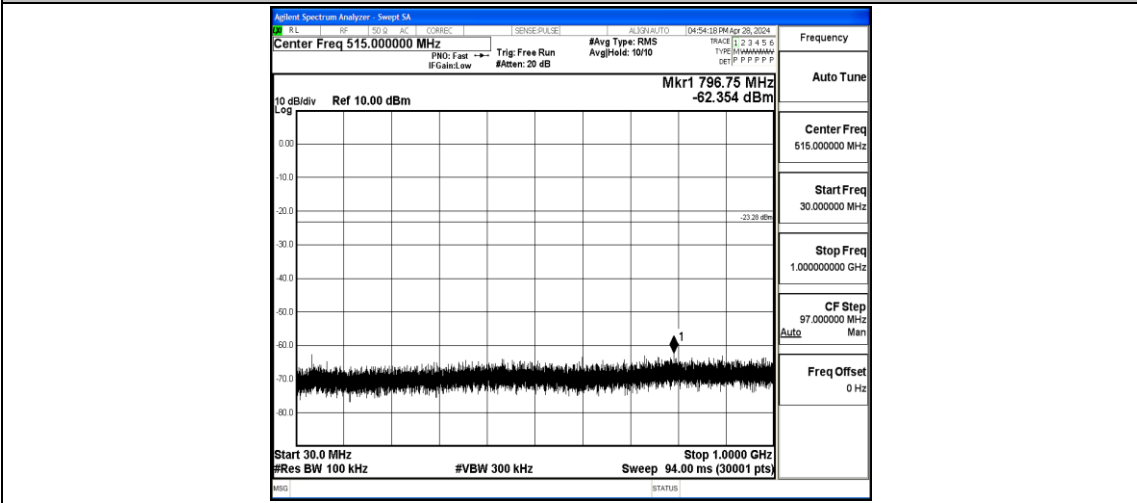
DH5-Ant1-2480-30~1000-PASS



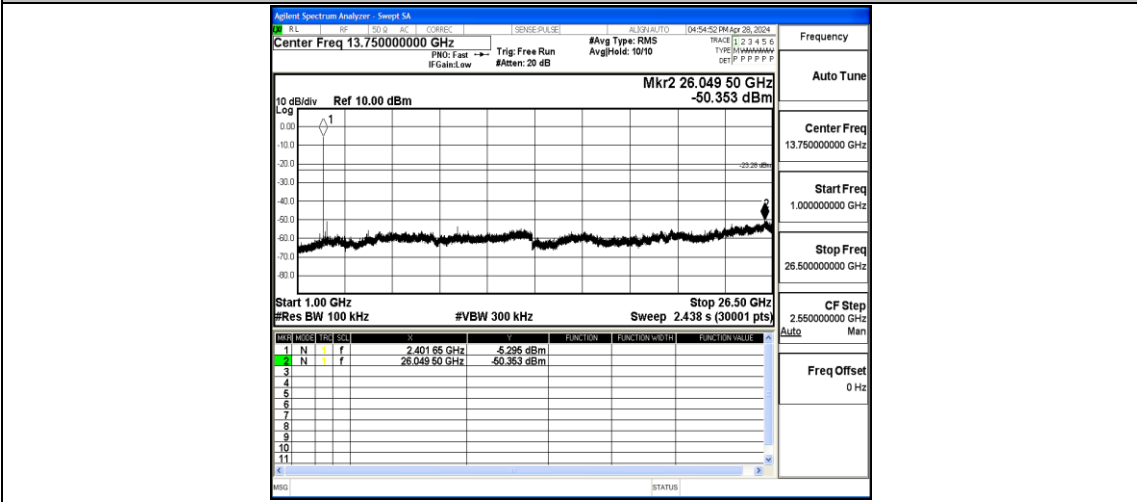
DH5-Ant1-2480-1000~26500-PASS



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

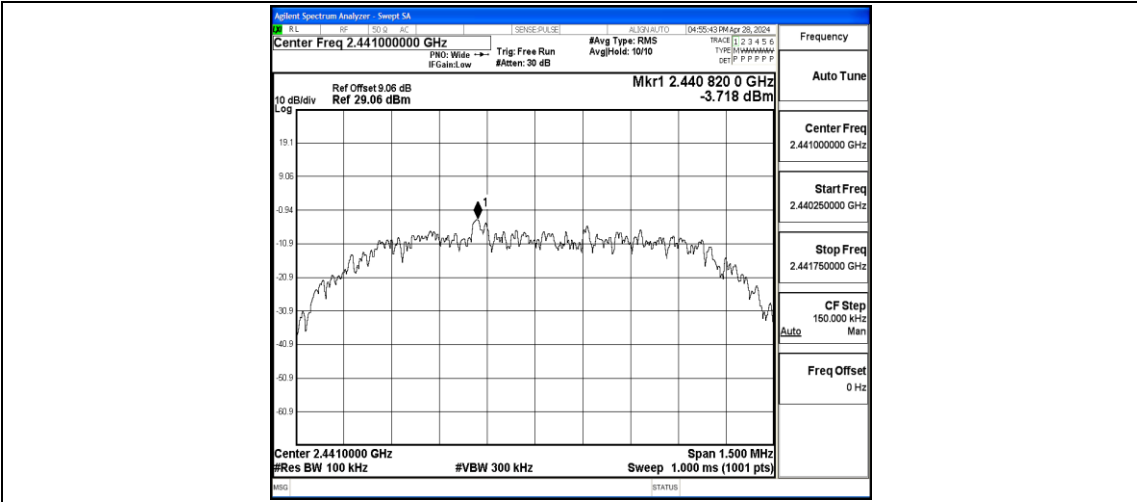


2DH5-Ant1-2402-30~1000-PASS

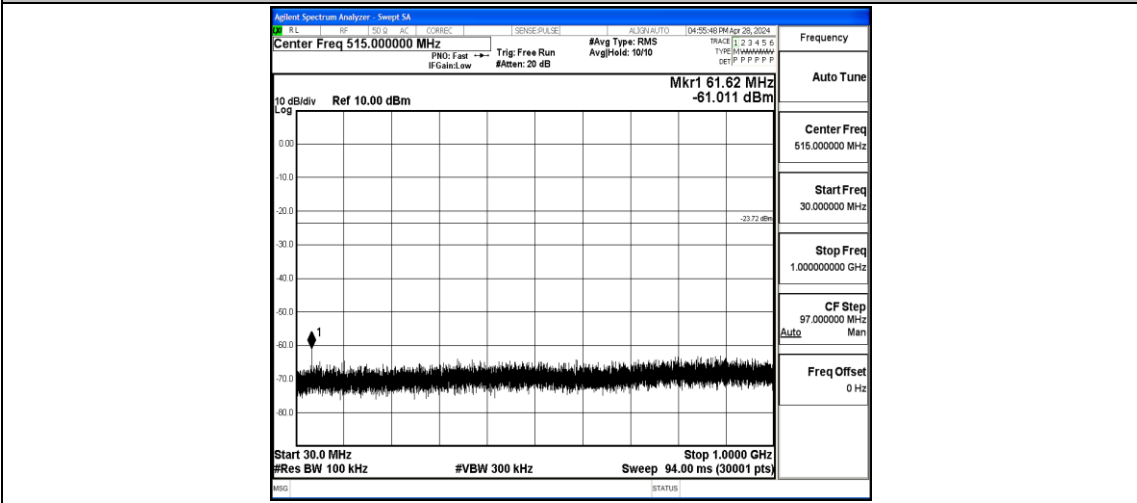


2DH5-Ant1-2402-1000~26500-PASS

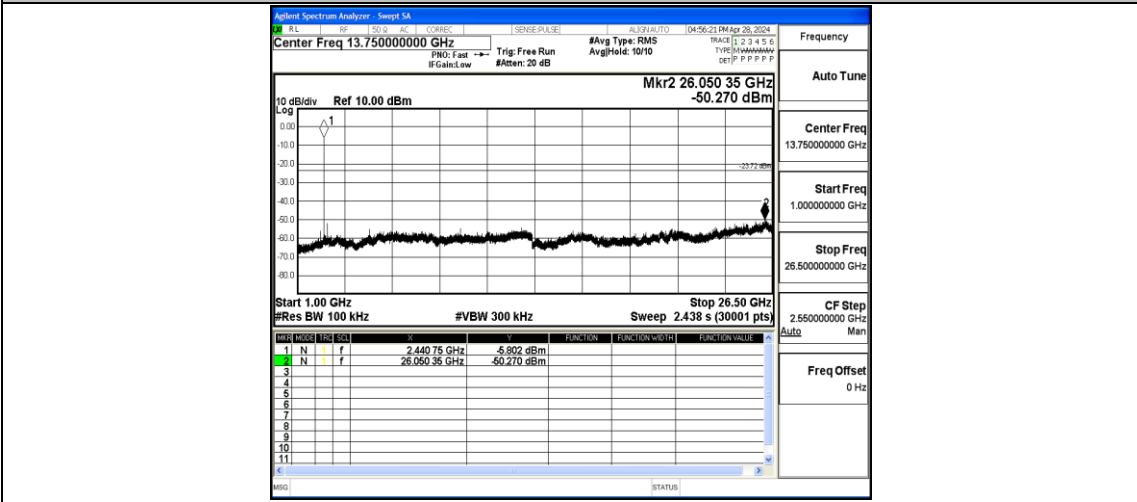




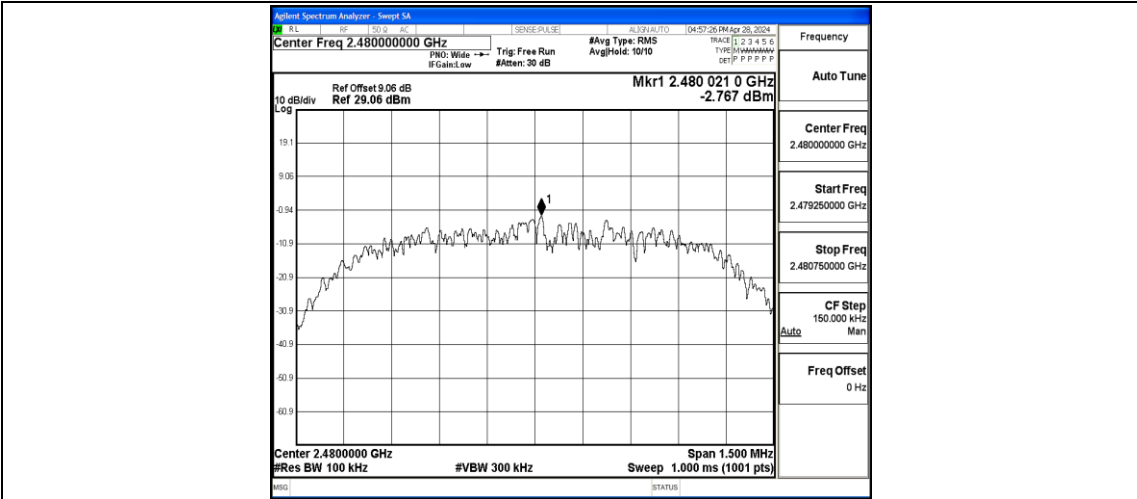
2DH5-Ant1-2441-0~Reference-PASS



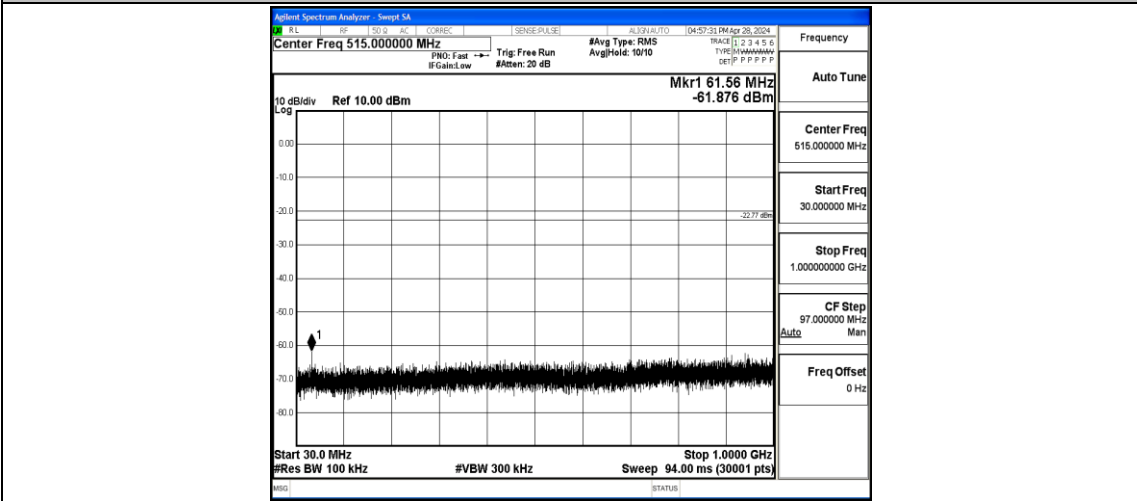
2DH5-Ant1-2441-30~1000-PASS



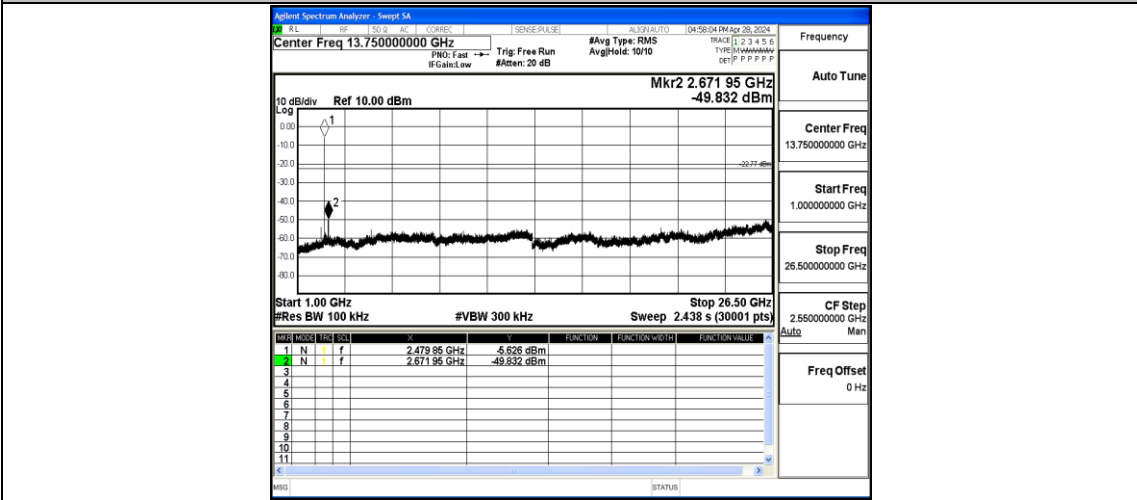
2DH5-Ant1-2441-1000~26500-PASS



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



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



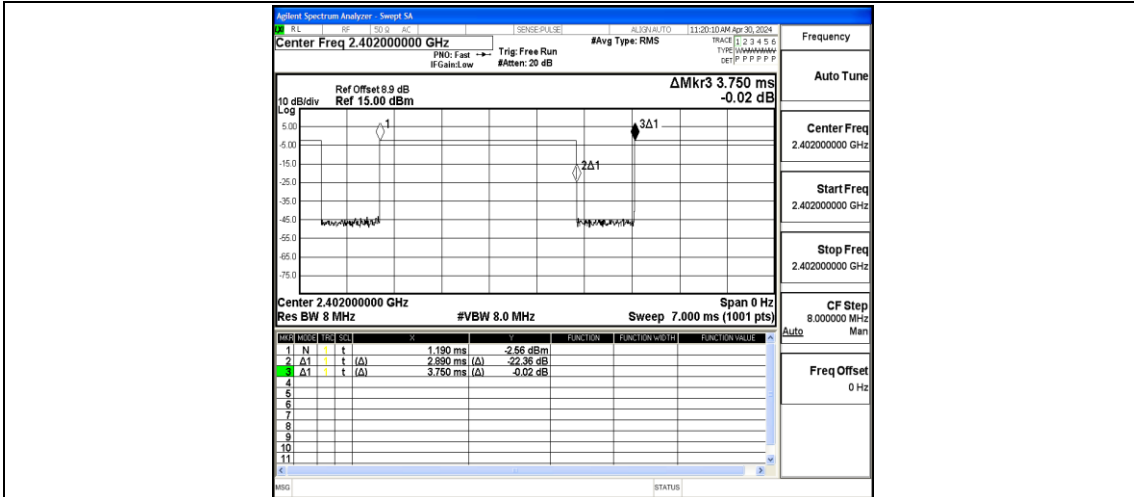
2DH5-Ant1-2480-1000~26500-PASS

## Appendix I: Duty Cycle

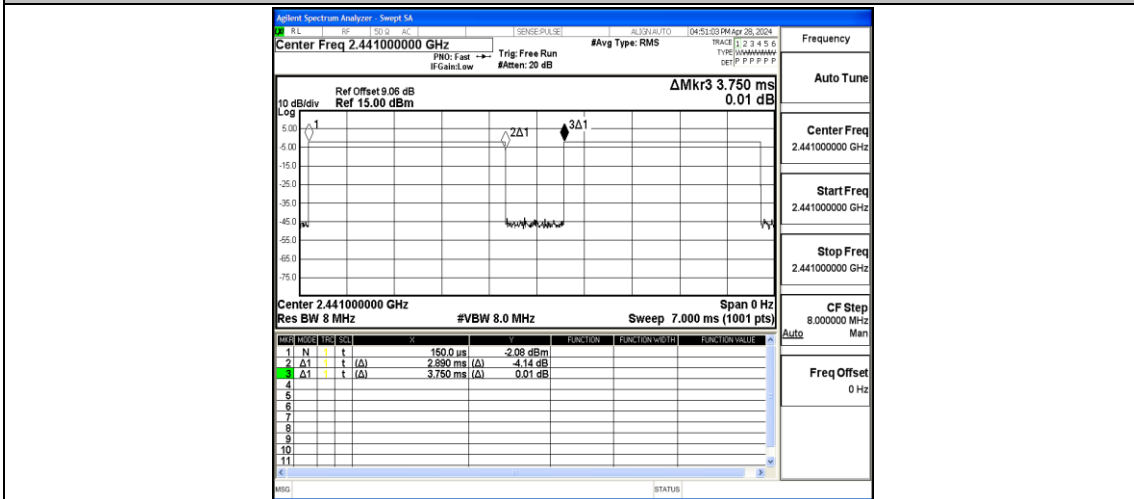
### Test Result

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	2.89	3.75	77.07	1.13
2DH5	Ant1	2441	2.90	3.76	77.13	1.13
2DH5	Ant1	2480	2.89	3.75	77.07	1.13

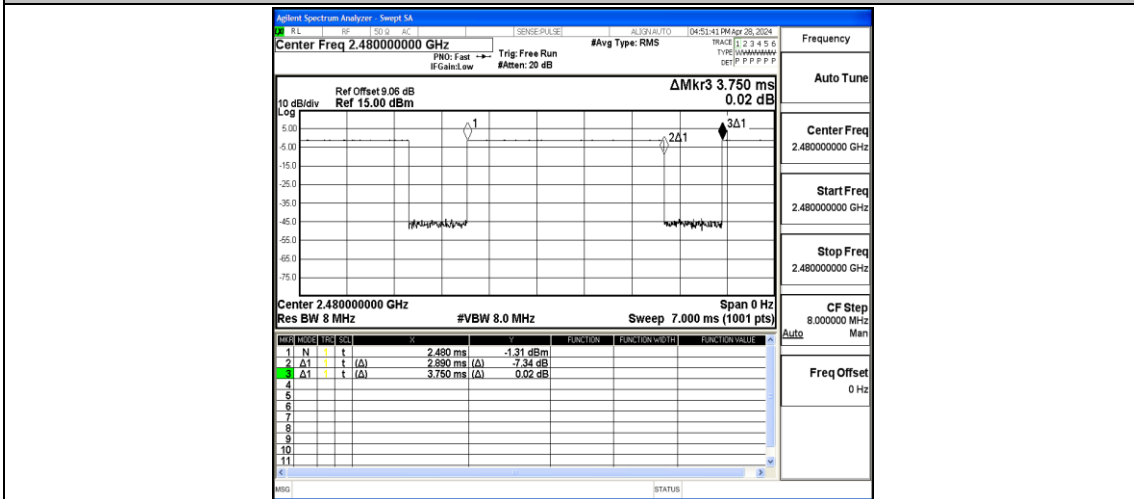
### Test Graphs



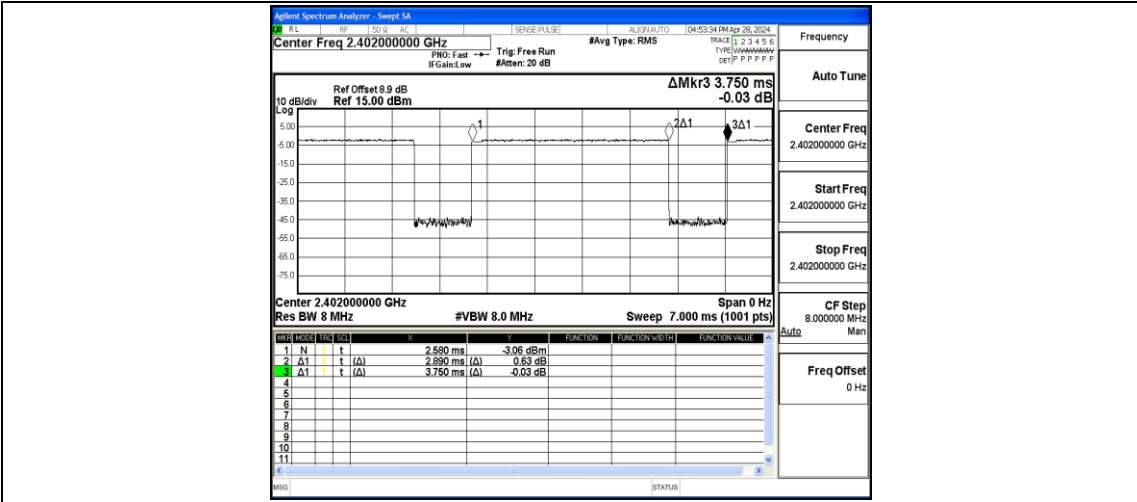
NTNV-DH5-Ant1-2402



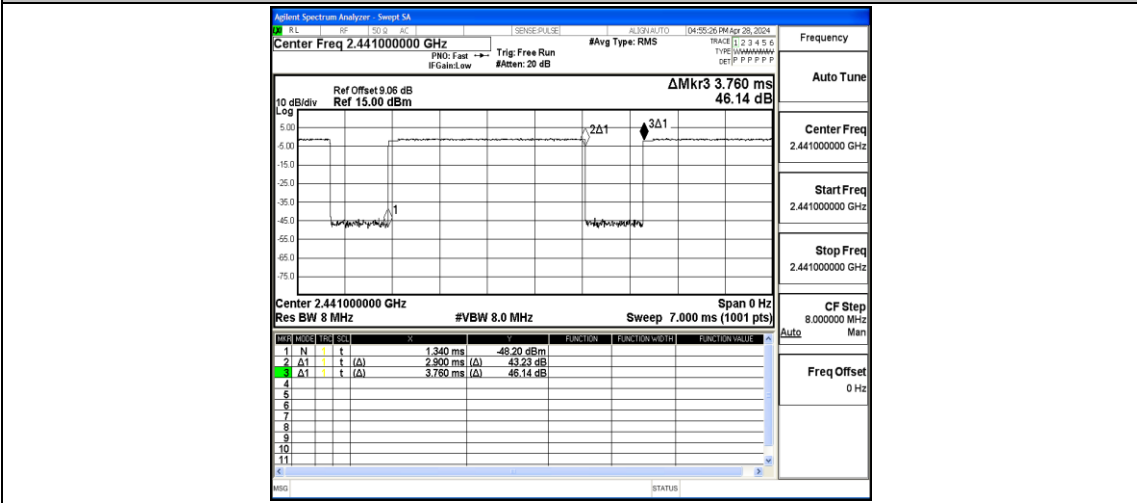
NTNV-DH5-Ant1-2441



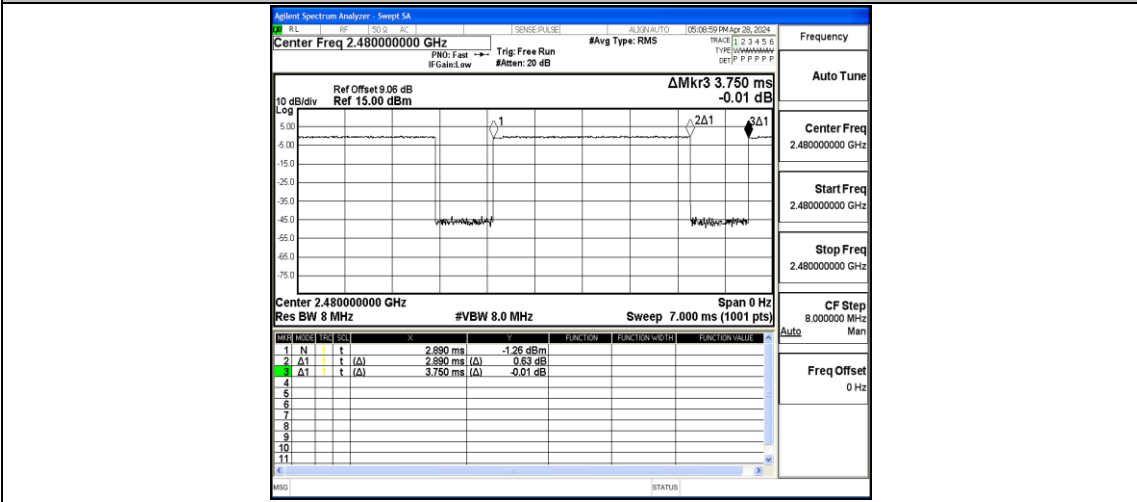
NTNV-DH5-Ant1-2480



NTNV-2DH5-Ant1-2402



NTNV-2DH5-Ant1-2441



NTNV-2DH5-Ant1-2480

## Appendix J: Emissions in Restricted Bands

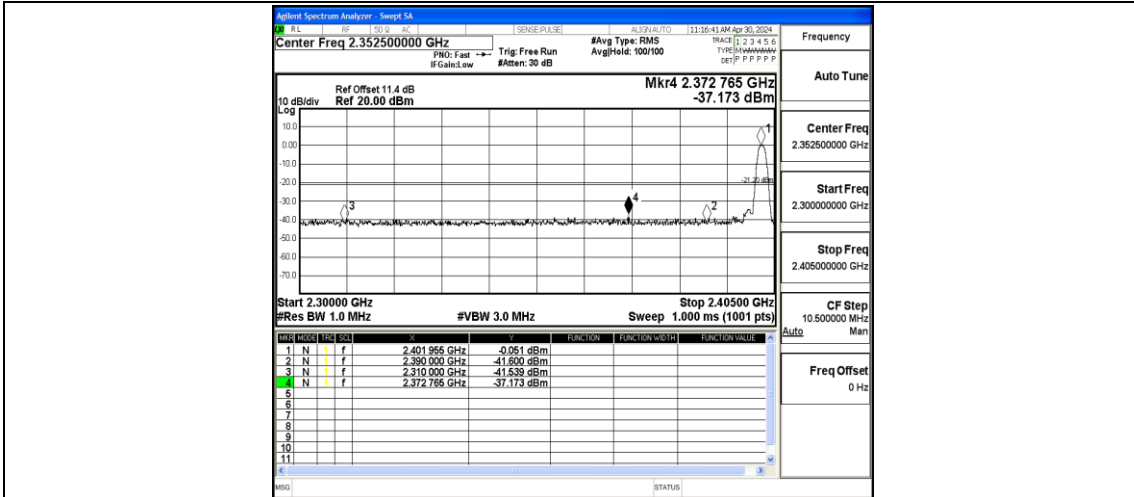
### Test Result

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	-41.6	≤-21.20	53.60	≤74	PASS
DH5	Ant1	Low	2402	Peak	2310.000	-41.54	≤-21.20	53.66	≤74	PASS
DH5	Ant1	Low	2402	Peak	2372.765	-37.17	≤-21.20	58.03	≤74	PASS
DH5	Ant1	Low	2402	AV	2390.000	-48.46	≤-41.20	46.74	≤54	PASS
DH5	Ant1	Low	2402	AV	2310.000	-48.75	≤-41.20	46.45	≤54	PASS
DH5	Ant1	Low	2402	AV	2374.550	-47.72	≤-41.20	47.48	≤54	PASS
DH5	Ant1	High	2480	Peak	2483.500	-39.23	≤-21.20	55.97	≤74	PASS
DH5	Ant1	High	2480	Peak	2500.000	-40.8	≤-21.20	54.40	≤74	PASS
DH5	Ant1	High	2480	Peak	2499.520	-37.82	≤-21.20	57.38	≤74	PASS
DH5	Ant1	High	2480	AV	2483.500	-47.11	≤-41.20	48.09	≤54	PASS
DH5	Ant1	High	2480	AV	2500.000	-47.6	≤-41.20	47.60	≤54	PASS
DH5	Ant1	High	2480	AV	2483.600	-46.99	≤-41.20	48.21	≤54	PASS
2DH5	Ant1	Low	2402	Peak	2390.000	-39.9	≤-21.20	55.30	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2310.000	-42.46	≤-21.20	52.74	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2342.000	-38.2	≤-21.20	57.00	≤74	PASS
2DH5	Ant1	Low	2402	AV	2390.000	-48.25	≤-41.20	46.95	≤54	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.78	≤-41.20	46.42	≤54	PASS
2DH5	Ant1	Low	2402	AV	2365.625	-47.8	≤-41.20	47.40	≤54	PASS
2DH5	Ant1	High	2480	Peak	2483.500	-43.78	≤-21.20	51.42	≤74	PASS
2DH5	Ant1	High	2480	Peak	2500.000	-41.84	≤-21.20	53.36	≤74	PASS
2DH5	Ant1	High	2480	Peak	2498.960	-38.95	≤-21.20	56.25	≤74	PASS
2DH5	Ant1	High	2480	AV	2483.500	-48.87	≤-41.20	46.33	≤54	PASS
2DH5	Ant1	High	2480	AV	2500.000	-48.85	≤-41.20	46.35	≤54	PASS
2DH5	Ant1	High	2480	AV	2499.040	-48.04	≤-41.20	47.16	≤54	PASS

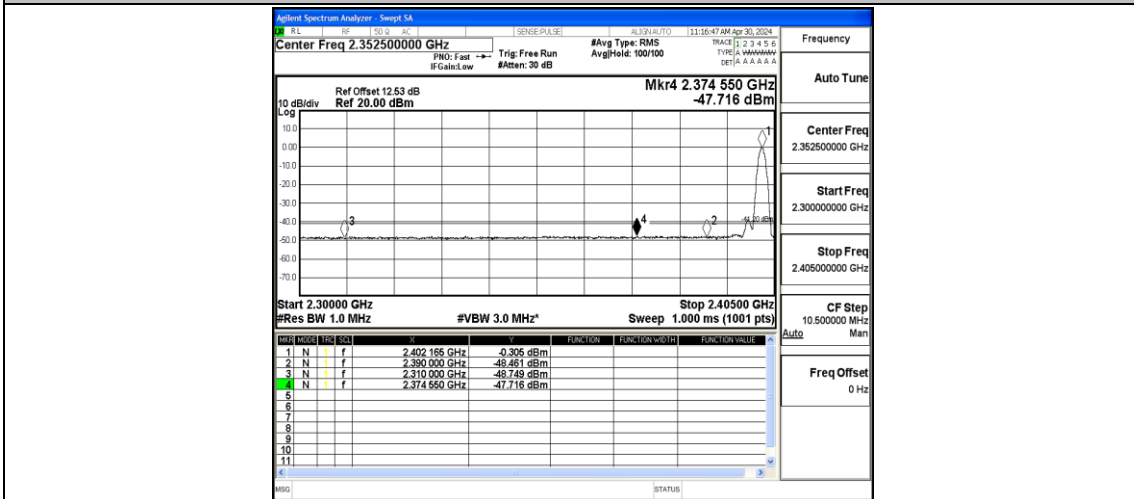
Note:

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.

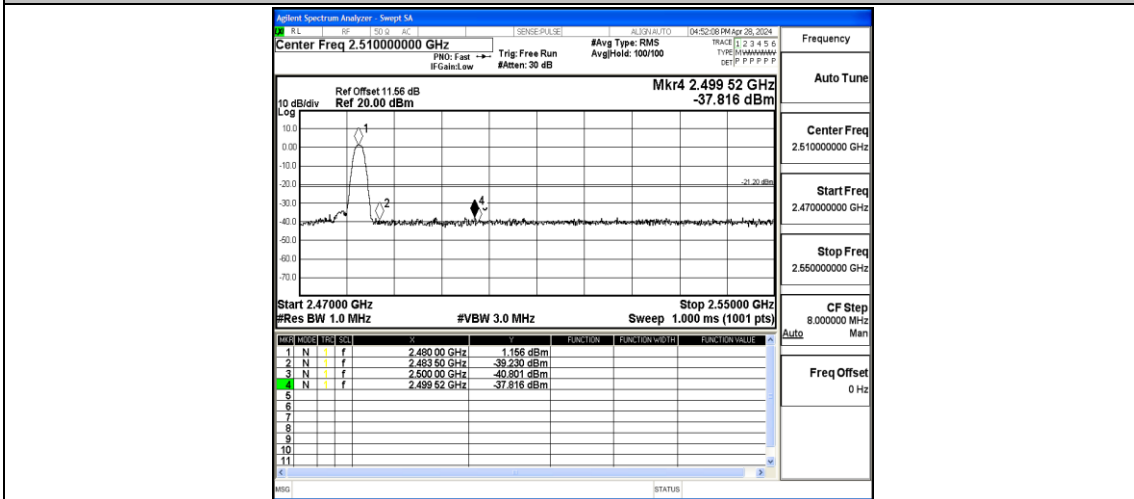
### Test Graphs



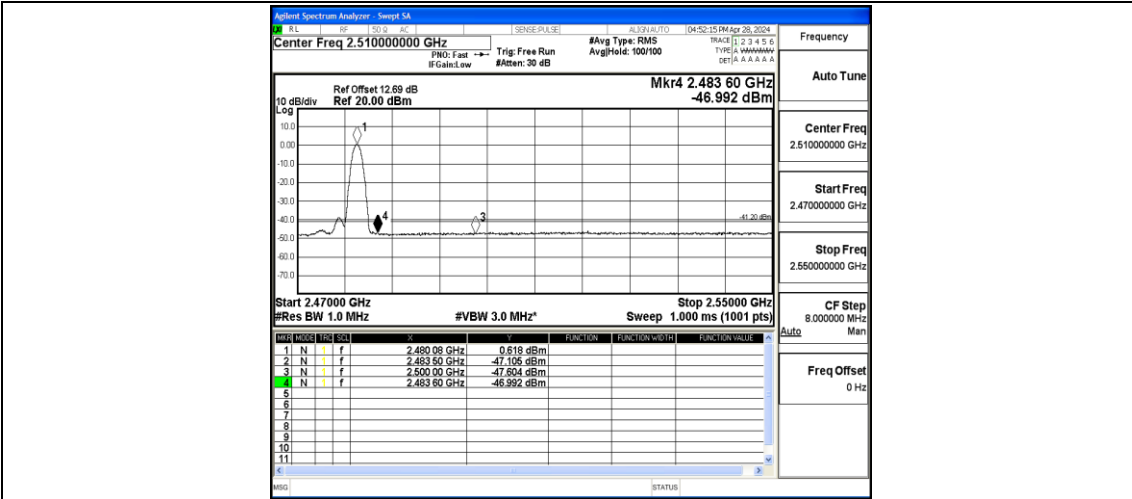
DH5-Ant1-2402-PASS



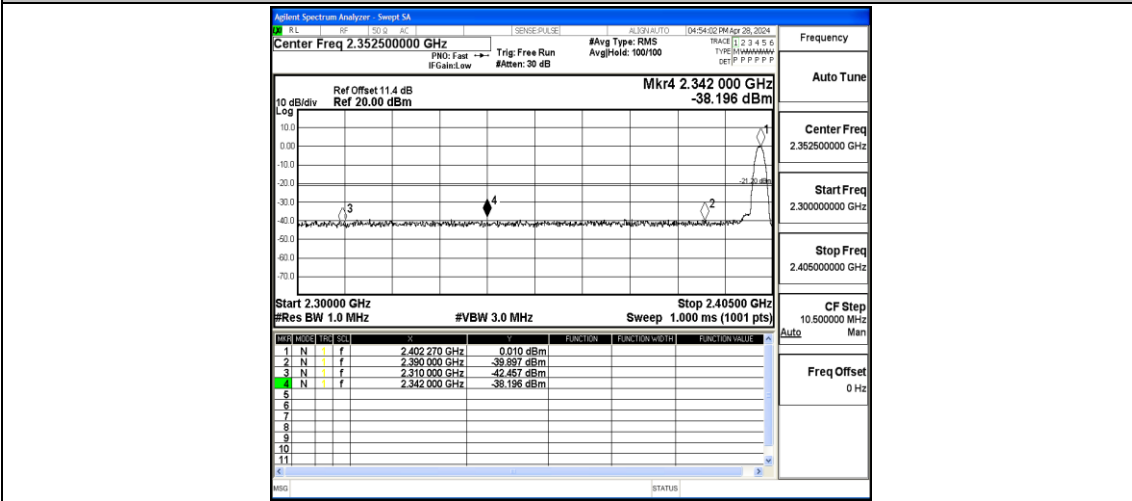
DH5-Ant1-2402-PASS



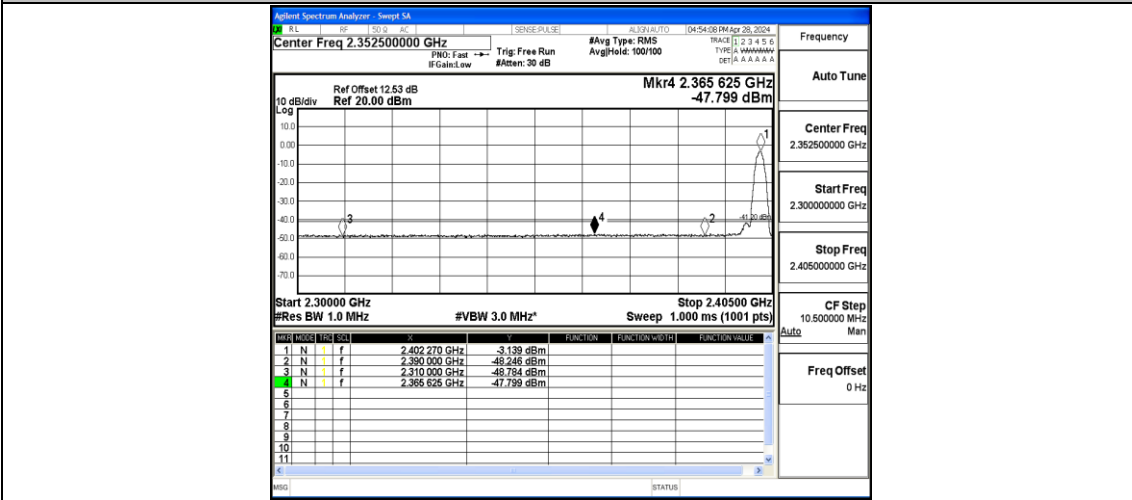
DH5-Ant1-2480-PASS



DH5-Ant1-2480-PASS

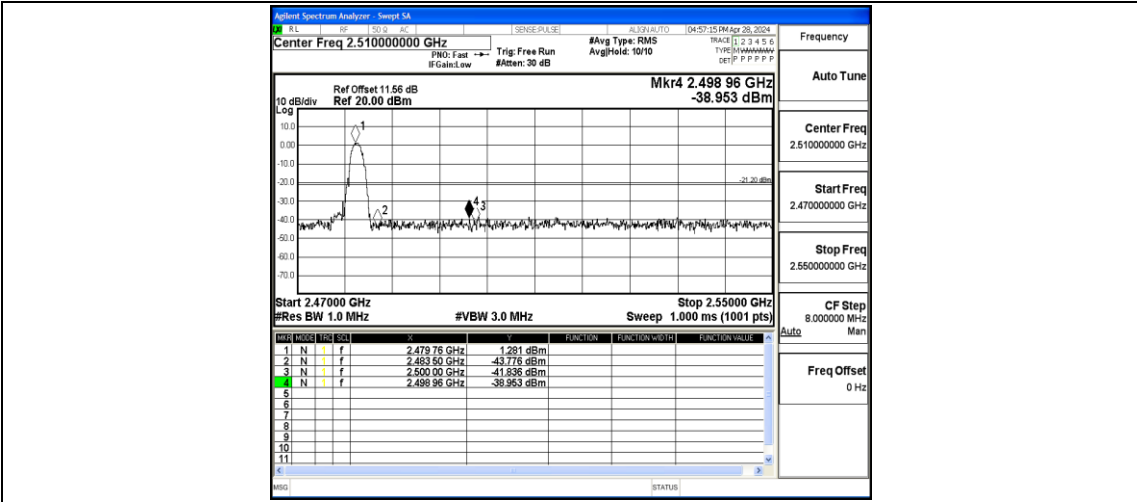


2DH5-Ant1-2402-PASS

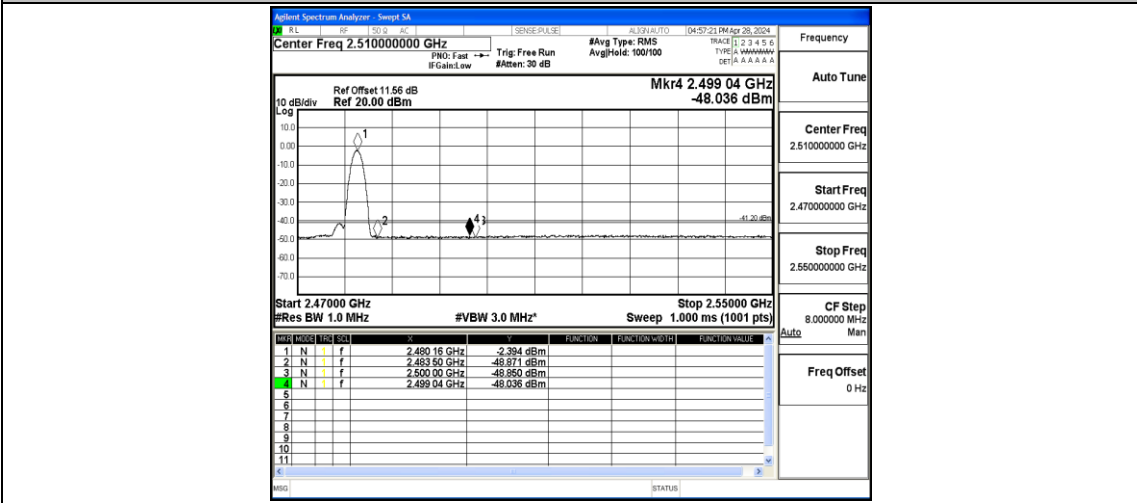


2DH5-Ant1-2402-PASS





2DH5-Ant1-2480-PASS



2DH5-Ant1-2480-PASS