

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

Product Name: Automatic Pet Feeder - Camera Monitoring 5L Double Food Tray

Trade Mark: PETLIBRO

Test Model: PLAF203

FCC ID: 2A3DE-PLAF203S

### Environmental Conditions

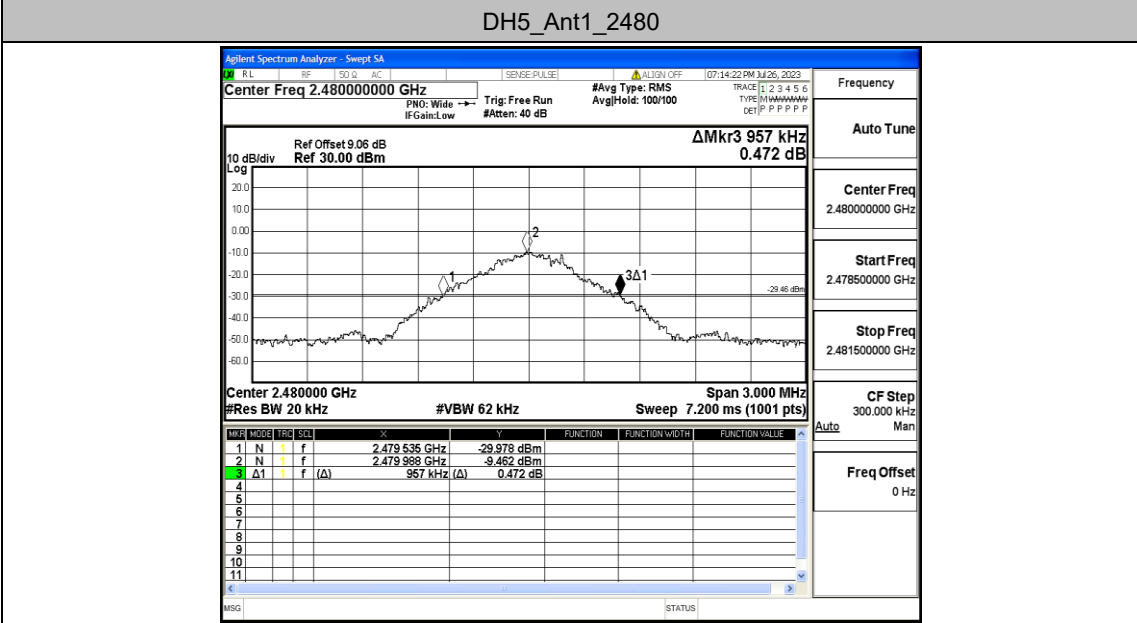
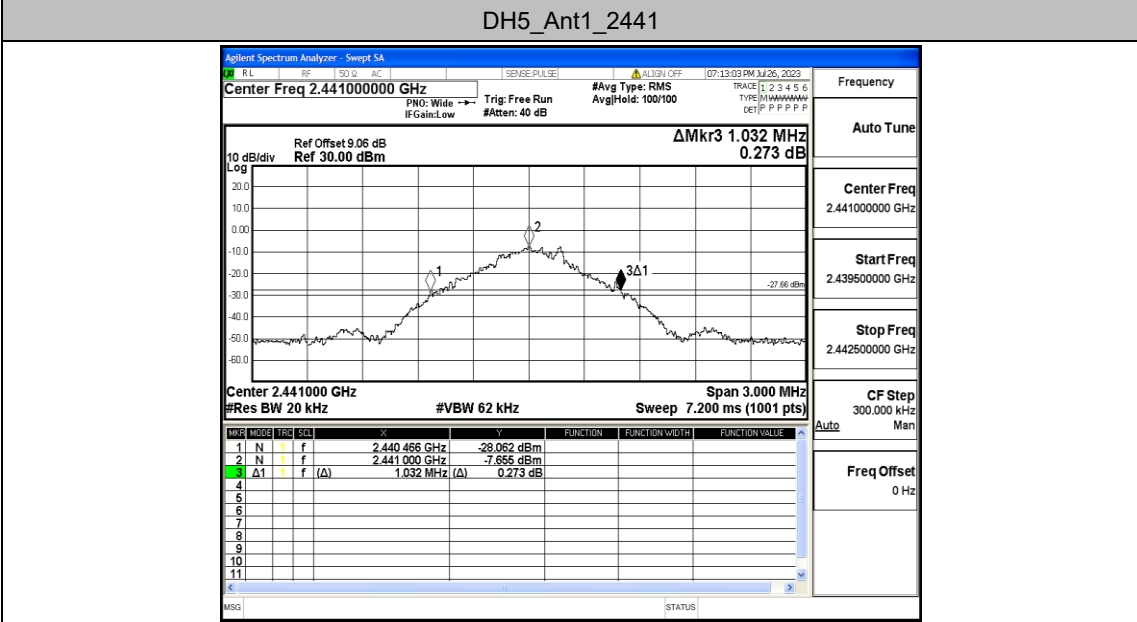
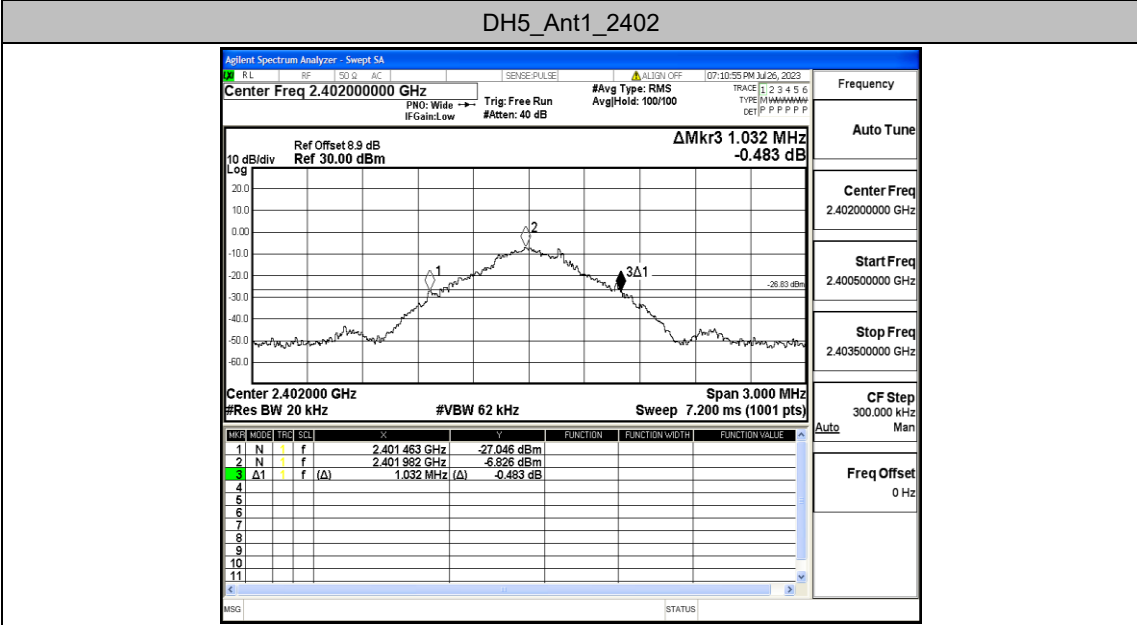
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

## Appendix A: 20dB Emission Bandwidth

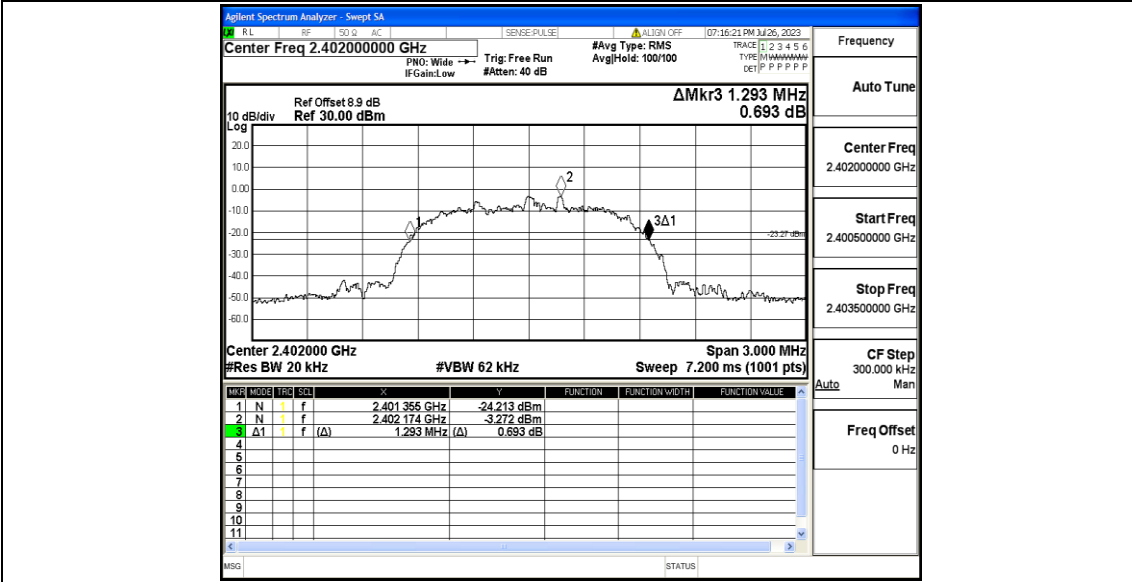
### Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.032	2401.463	2402.495	---	---
		2441	1.032	2440.466	2441.498	---	---
		2480	0.957	2479.535	2480.492	---	---
2DH5	Ant1	2402	1.293	2401.355	2402.648	---	---
		2441	1.299	2440.358	2441.657	---	---
		2480	1.275	2479.355	2480.630	---	---
3DH5	Ant1	2402	1.290	2401.349	2402.639	---	---
		2441	1.311	2440.343	2441.654	---	---
		2480	1.284	2479.355	2480.639	---	---

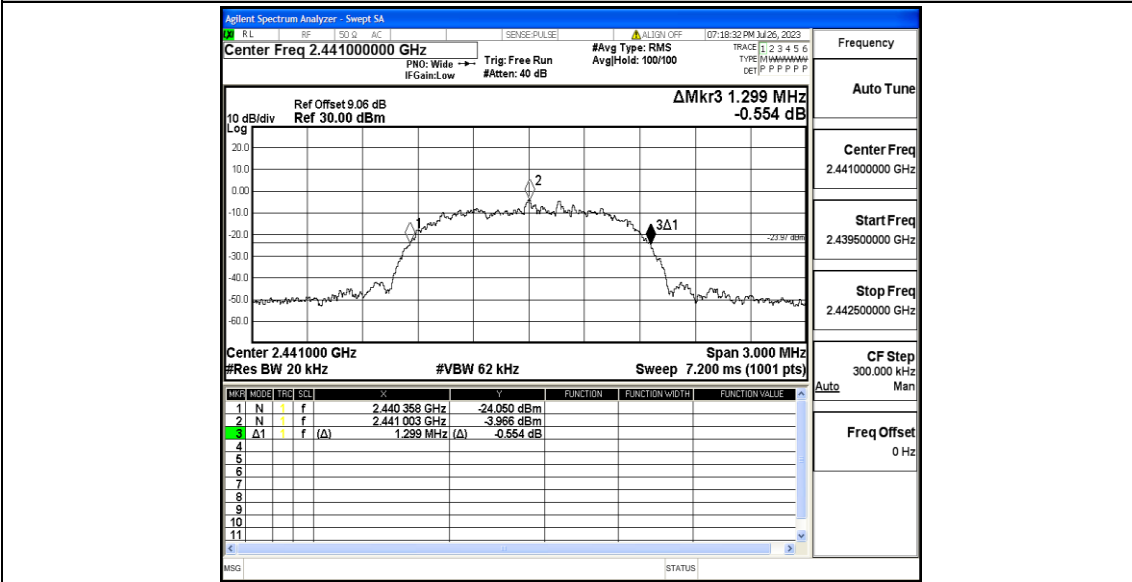
Test Graphs



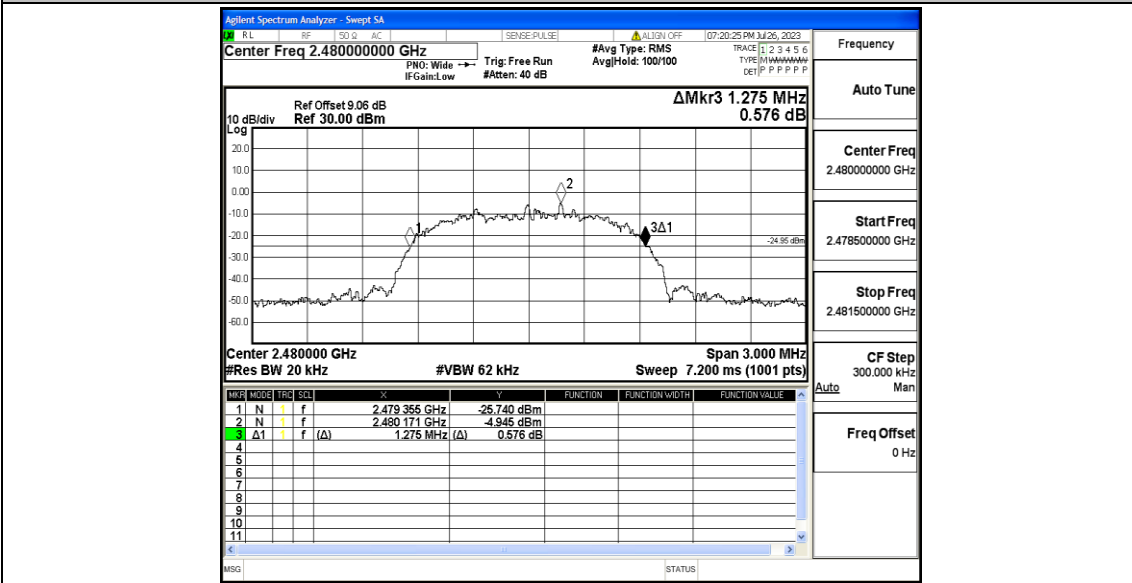
**2DH5\_Ant1\_2402**



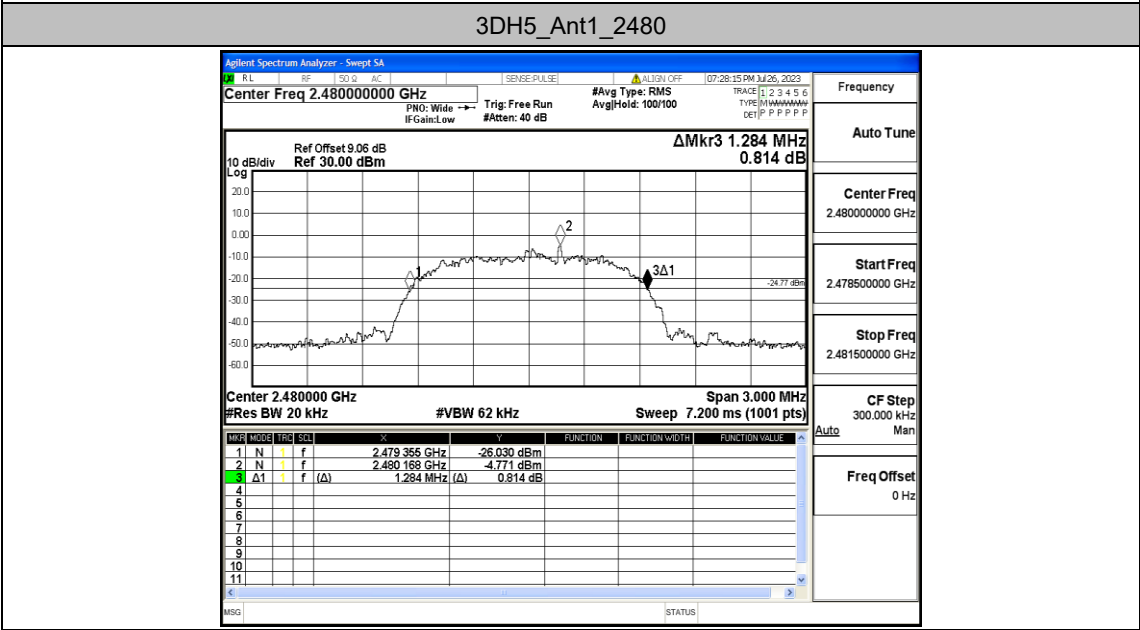
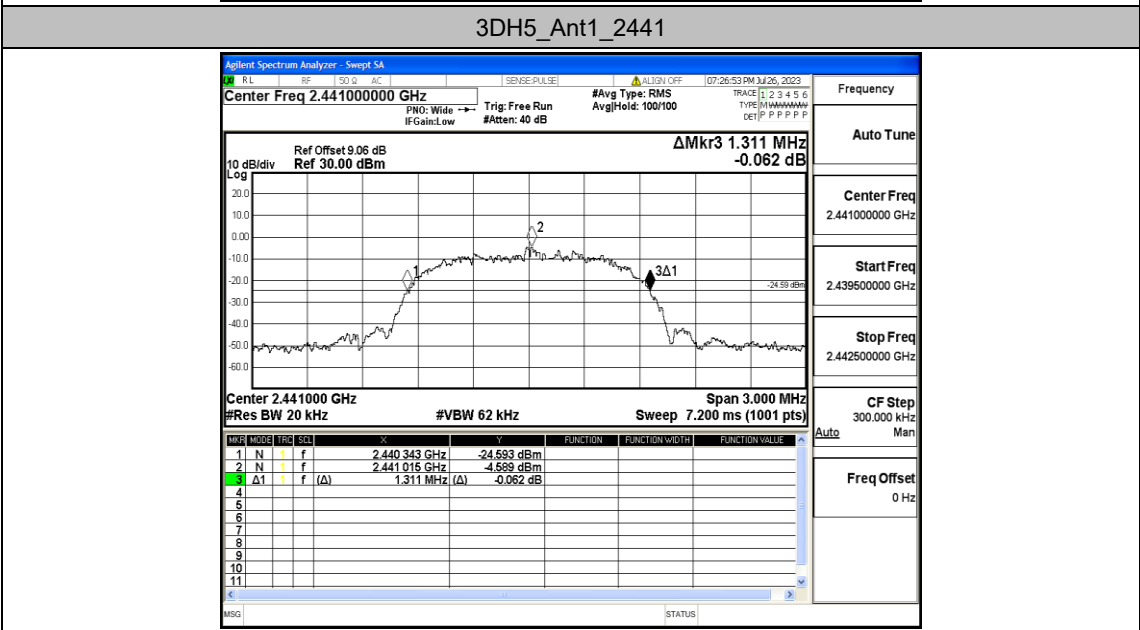
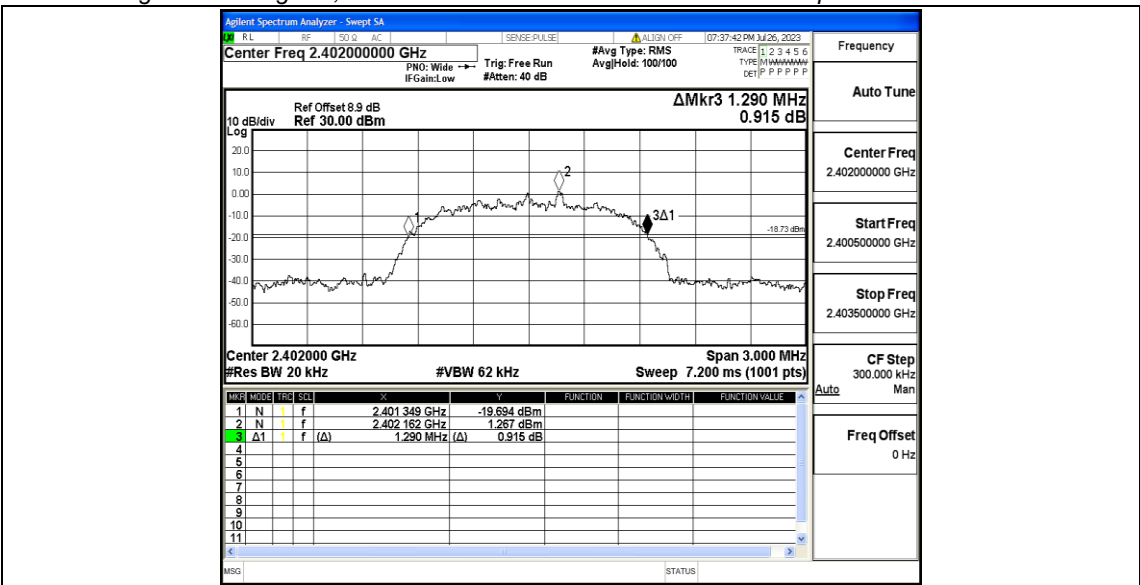
2DH5\_Ant1\_2441



2DH5\_Ant1\_2480



3DH5\_Ant1\_2402

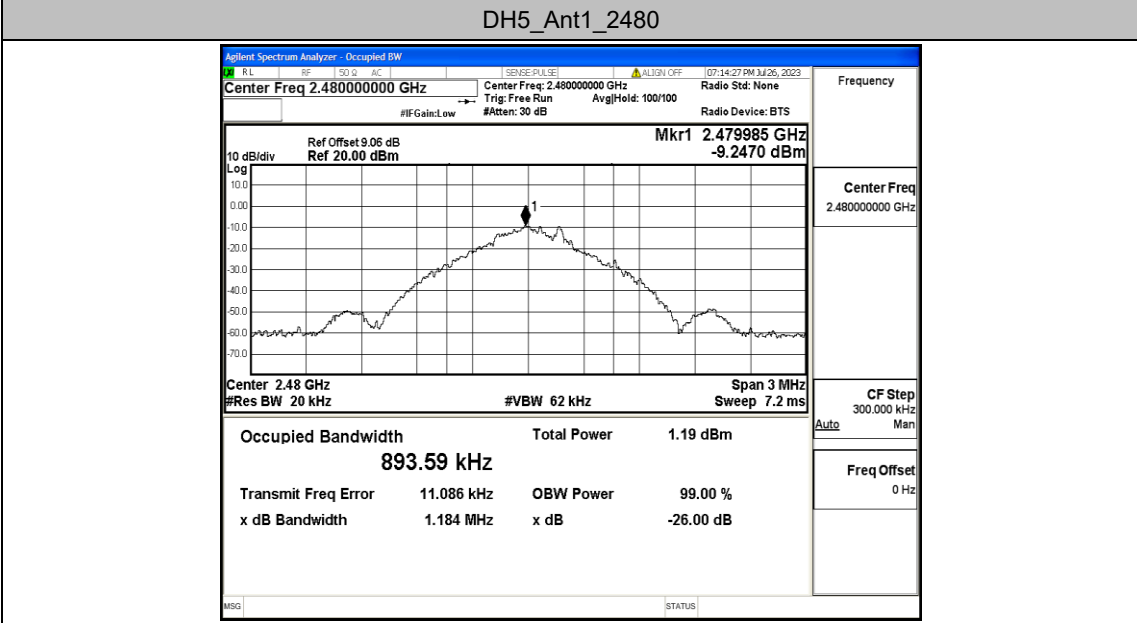
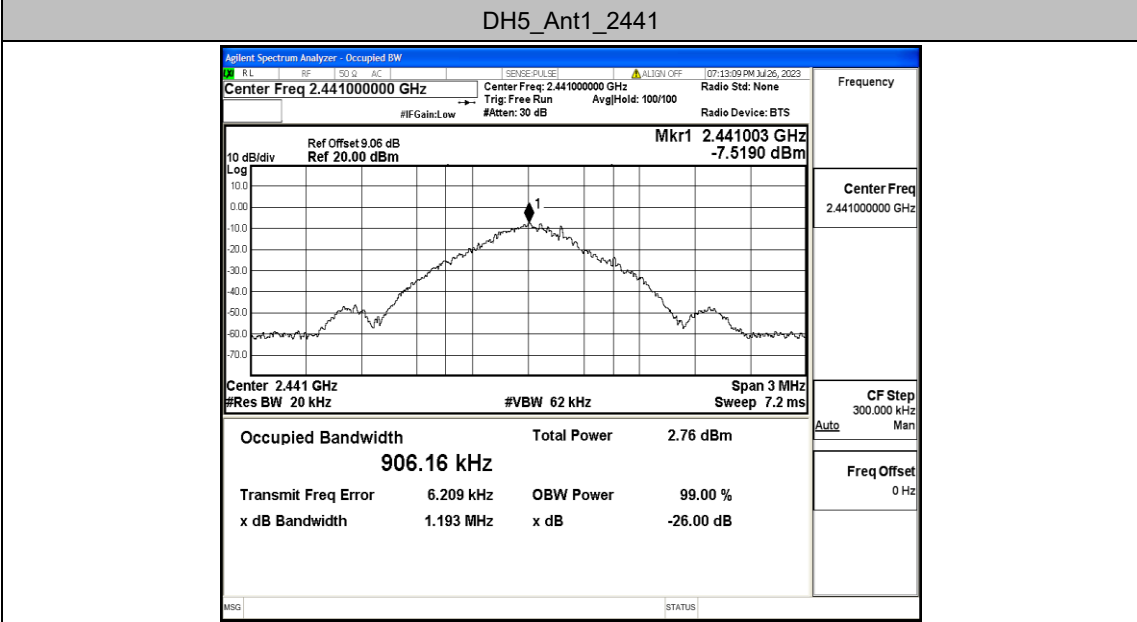
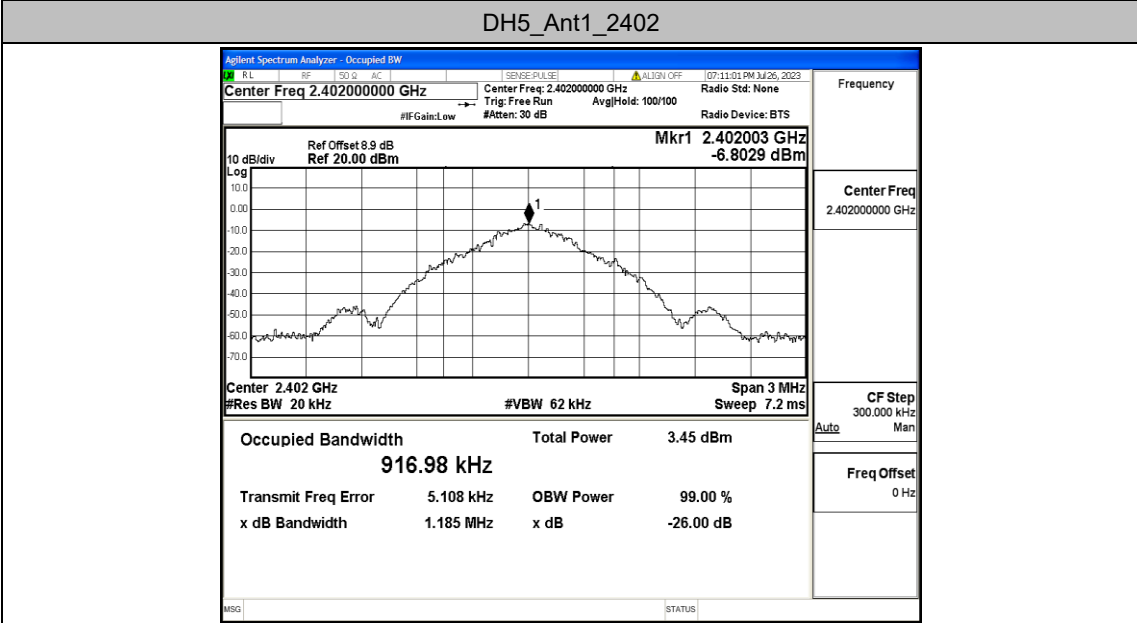


## Appendix B: Occupied Channel Bandwidth

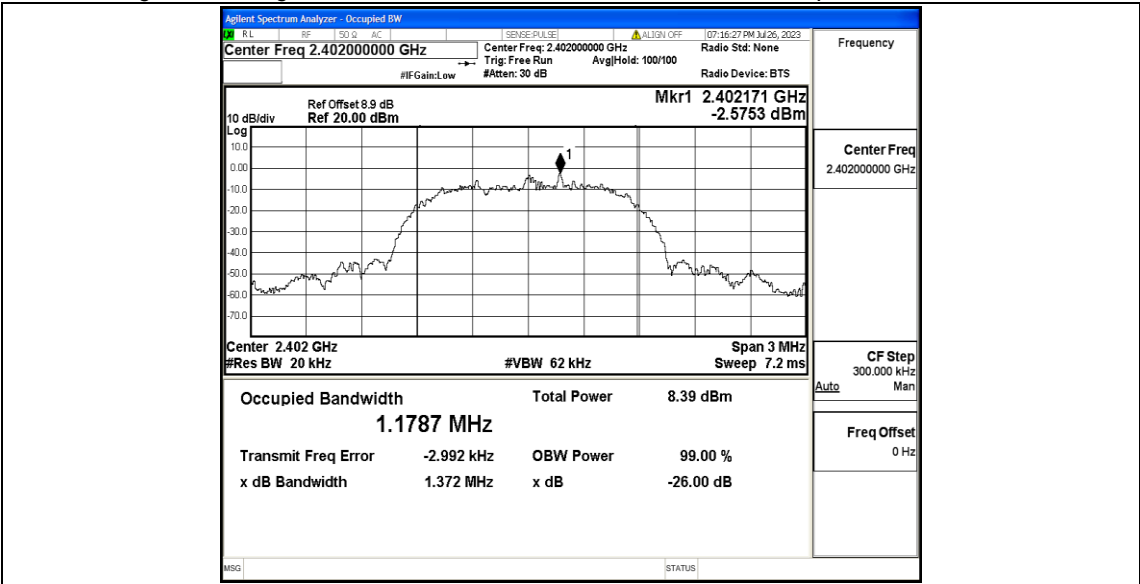
### Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.91698	2401.5466	2402.4636	---	---
		2441	0.90616	2440.5531	2441.4593	---	---
		2480	0.89359	2479.5643	2480.4579	---	---
2DH5	Ant1	2402	1.1787	2401.4077	2402.5864	---	---
		2441	1.1894	2440.4032	2441.5926	---	---
		2480	1.1781	2479.4078	2480.5859	---	---
3DH5	Ant1	2402	1.1906	2401.4045	2402.5951	---	---
		2441	1.1693	2440.4147	2441.5840	---	---
		2480	1.1812	2479.4077	2480.5889	---	---

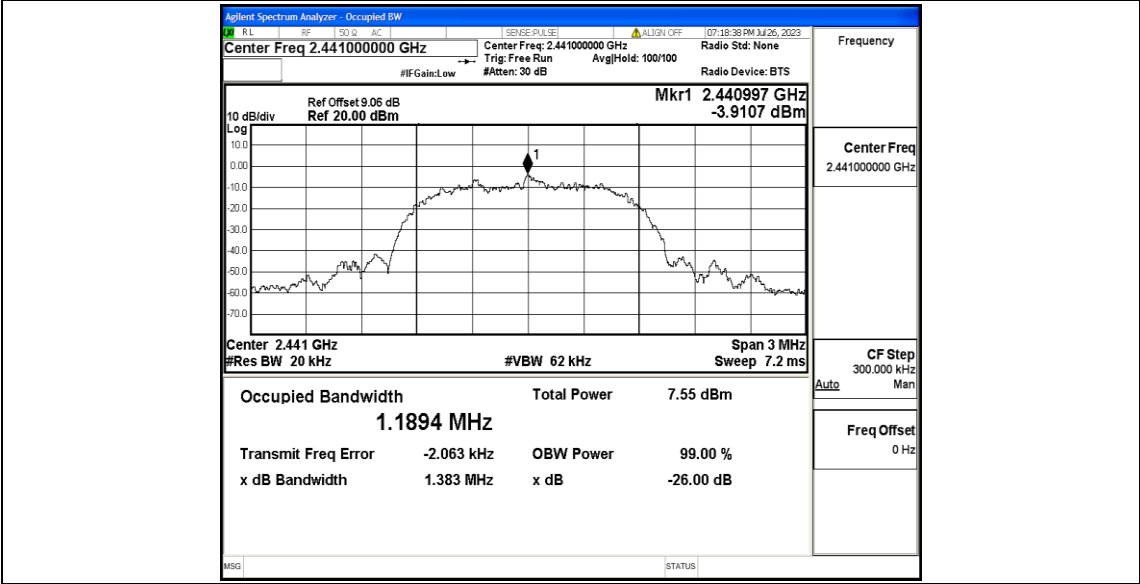
Test Graphs



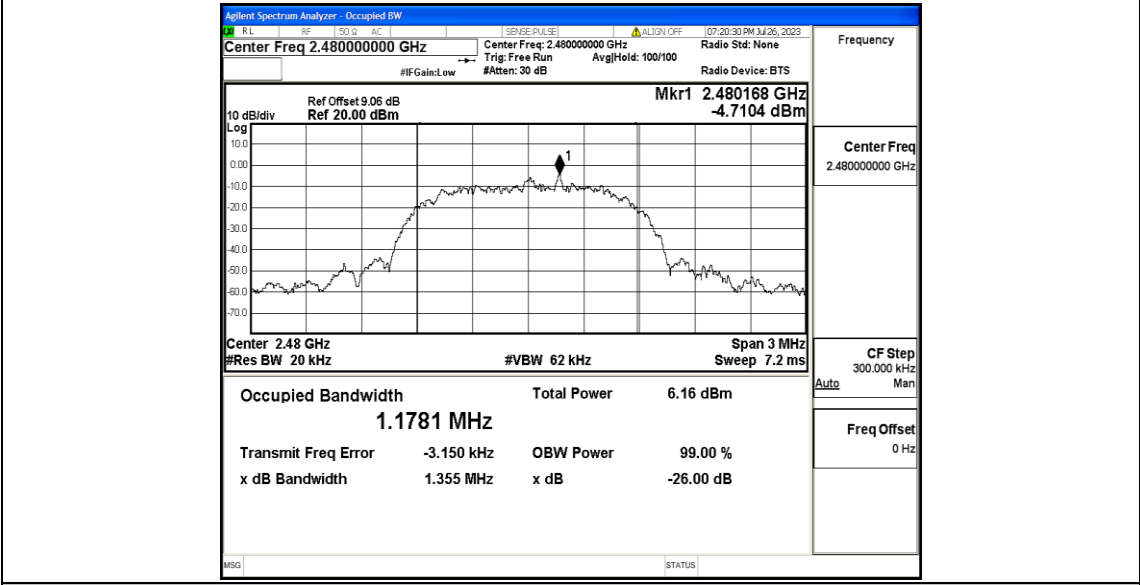
**2DH5\_Ant1\_2402**



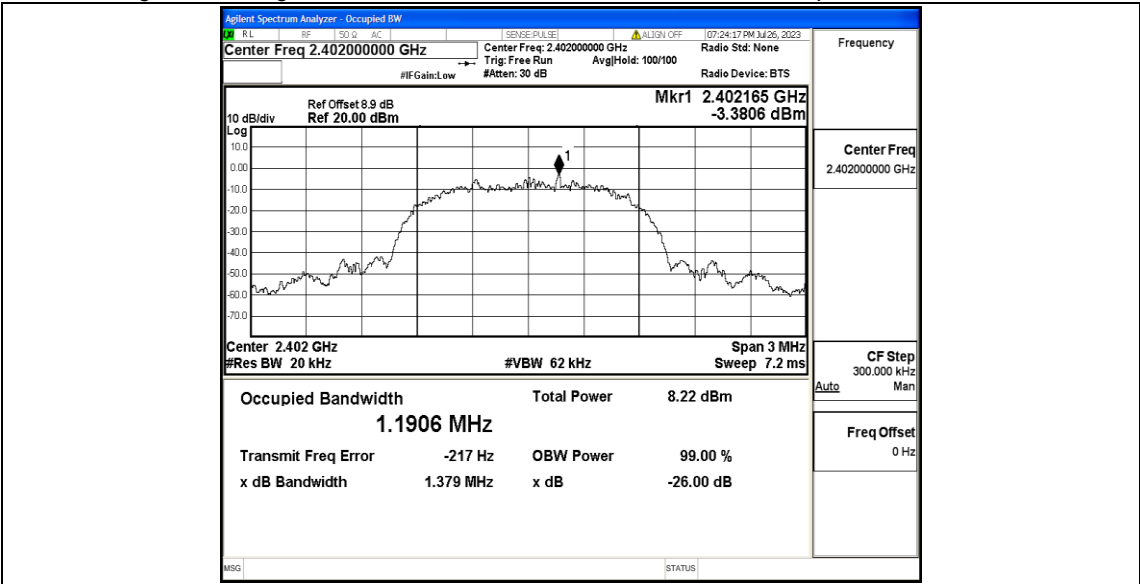
2DH5\_Ant1\_2441



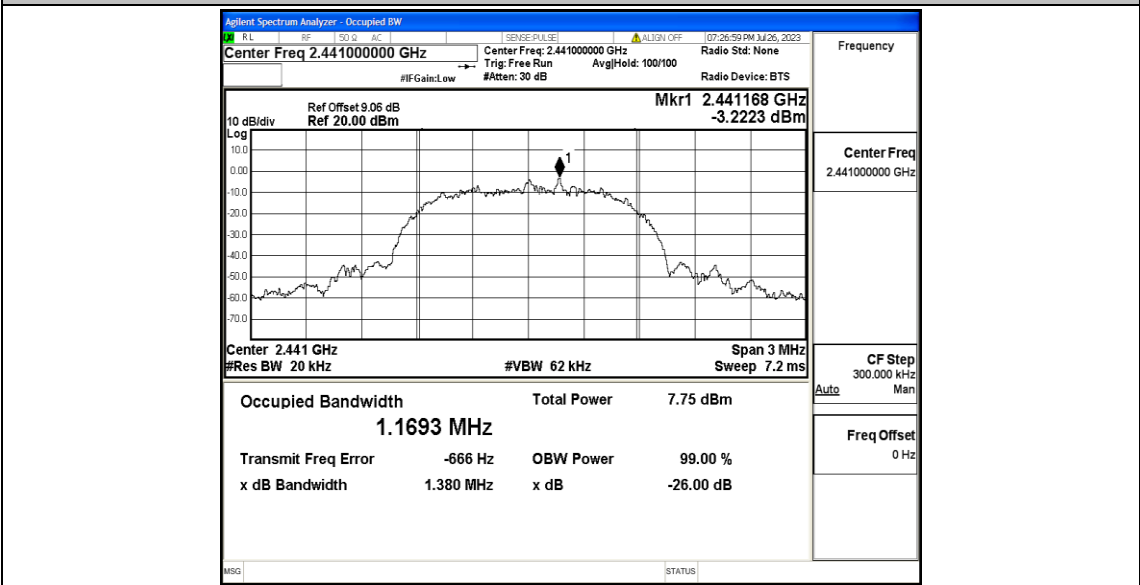
2DH5\_Ant1\_2480



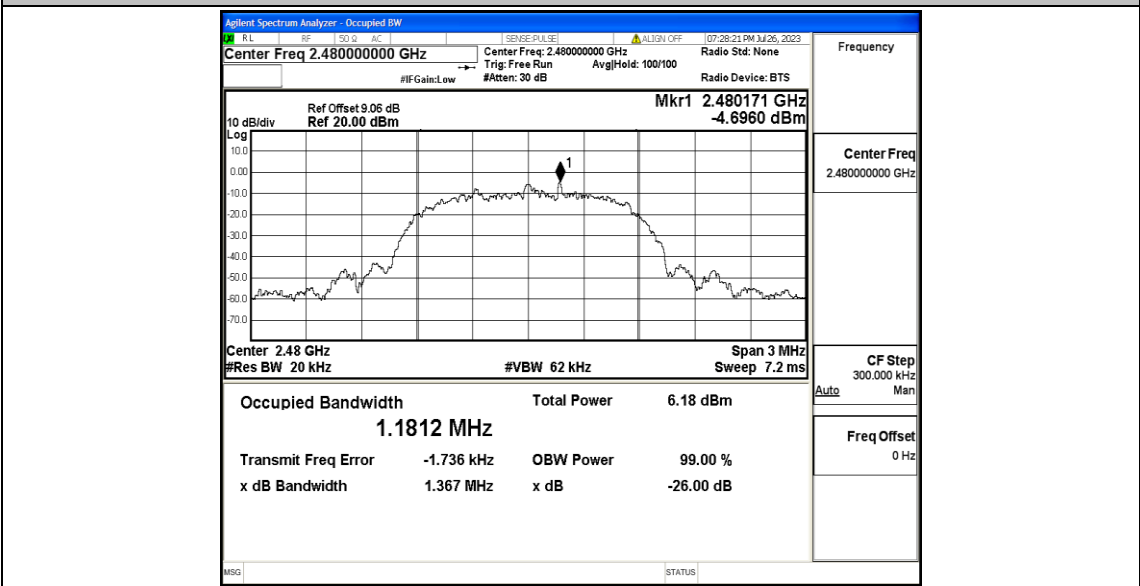
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



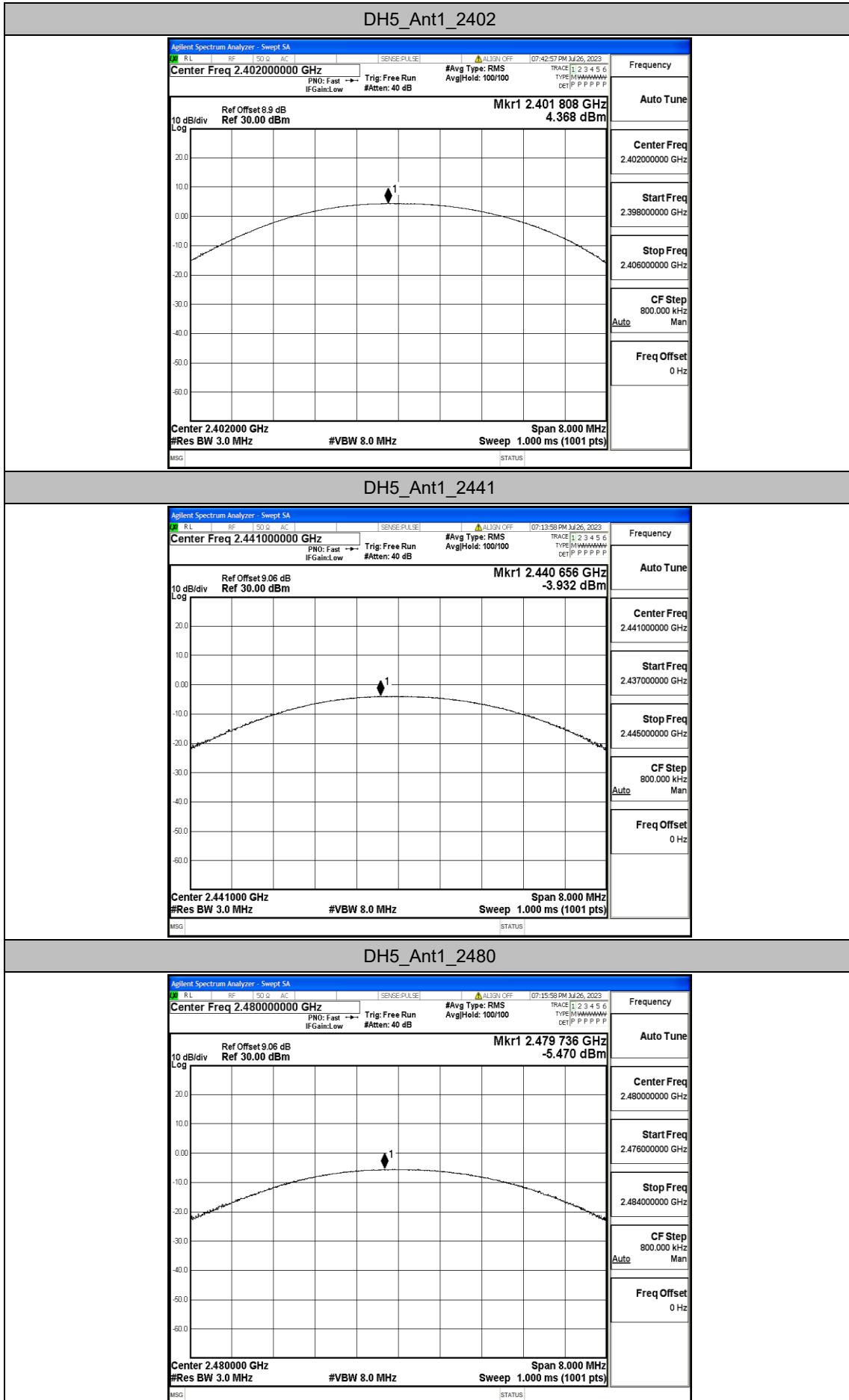


## Appendix C: Maximum Peak conducted output power

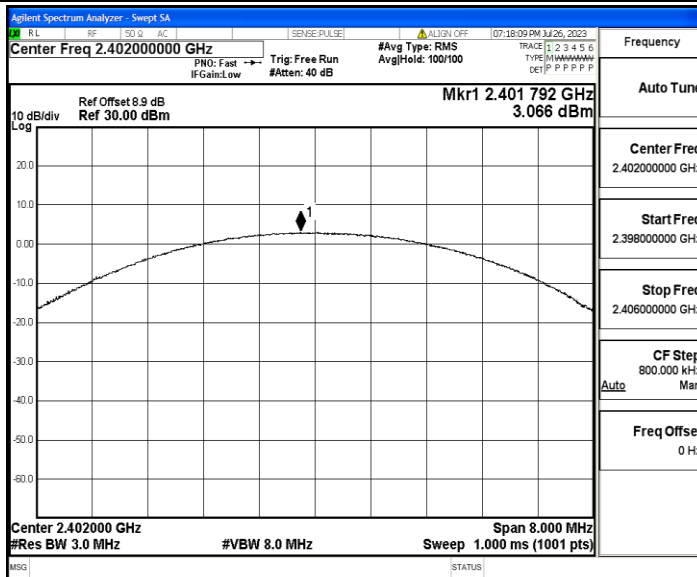
### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	4.37	≤30.0	PASS
		2441	-3.93	≤30.0	PASS
		2480	-5.47	≤30.0	PASS
2DH5	Ant1	2402	3.07	≤20.97	PASS
		2441	2.39	≤20.97	PASS
		2480	0.84	≤20.97	PASS
3DH5	Ant1	2402	6.54	≤20.97	PASS
		2441	2.39	≤20.97	PASS
		2480	0.92	≤20.97	PASS

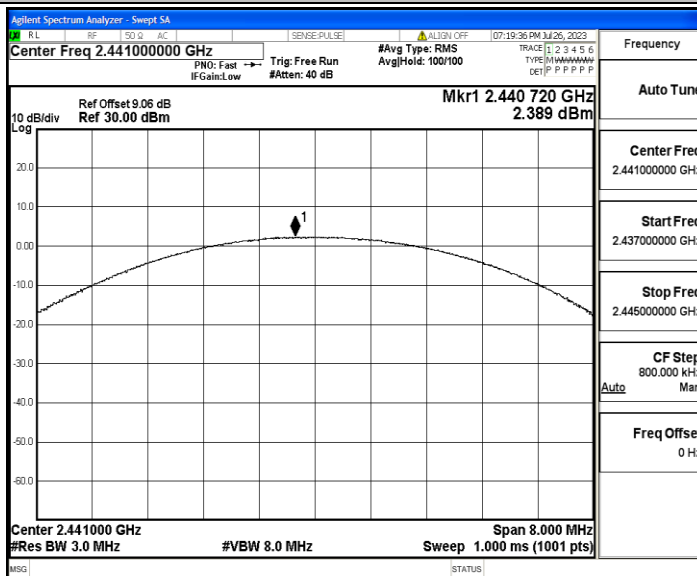
### Test Graphs



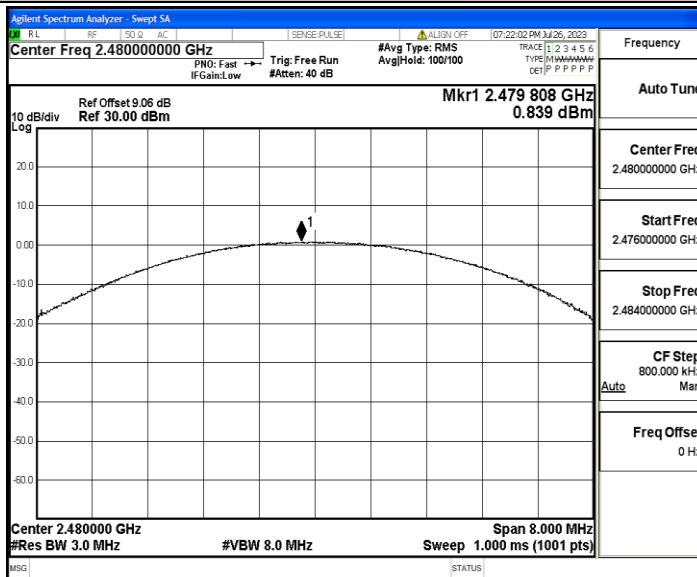
2DH5\_Ant1\_2402



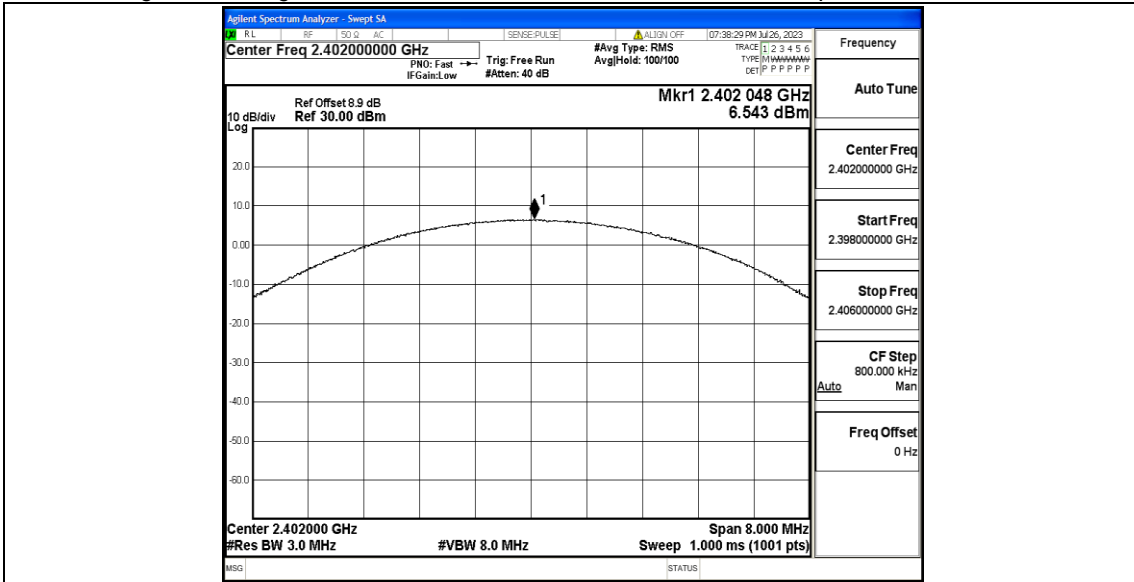
2DH5\_Ant1\_2441



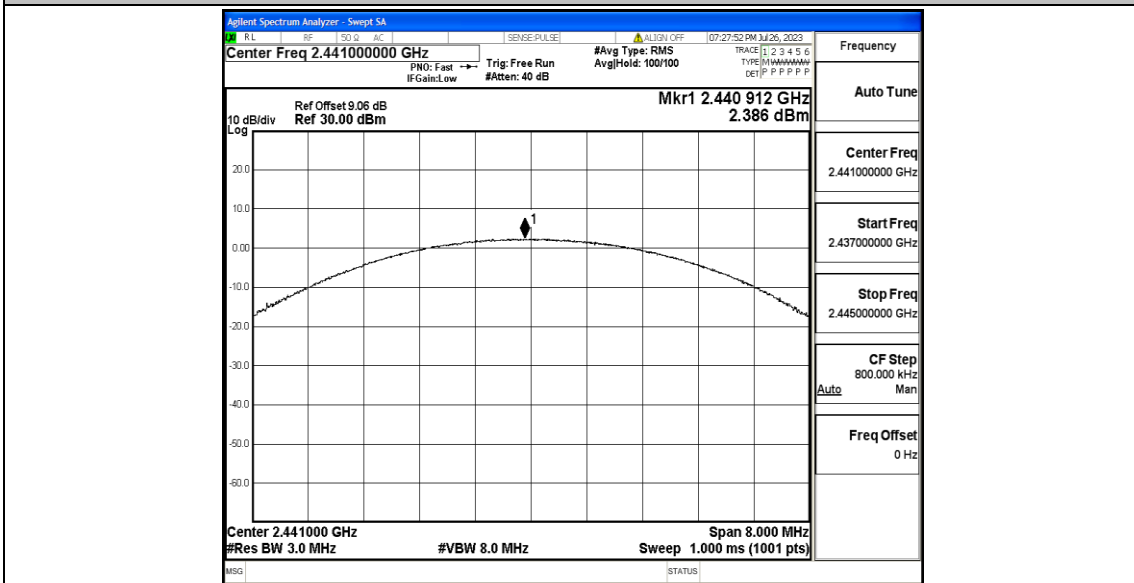
2DH5\_Ant1\_2480



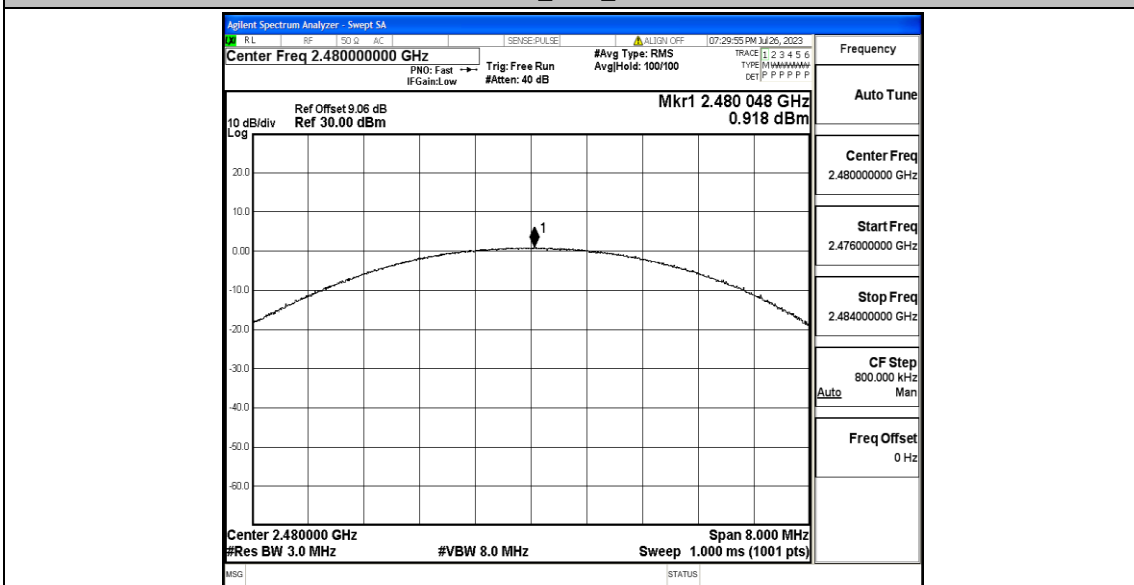
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480

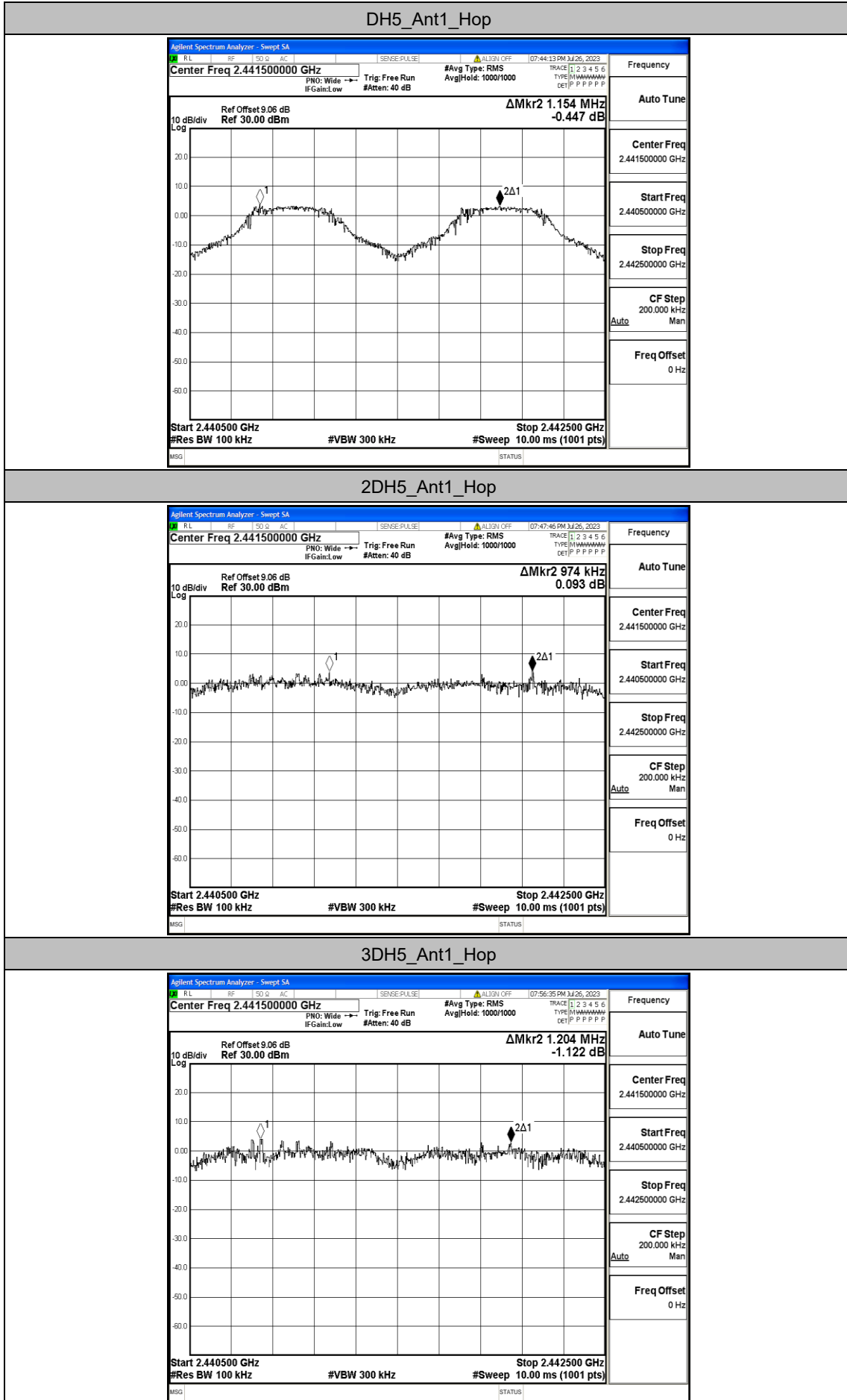


## Appendix D: Carrier frequency separation

### Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.154	$\geq 1.032$	PASS
2DH5	Ant1	Hop	0.974	$\geq 0.866$	PASS
3DH5	Ant1	Hop	1.204	$\geq 0.874$	PASS

### Test Graphs

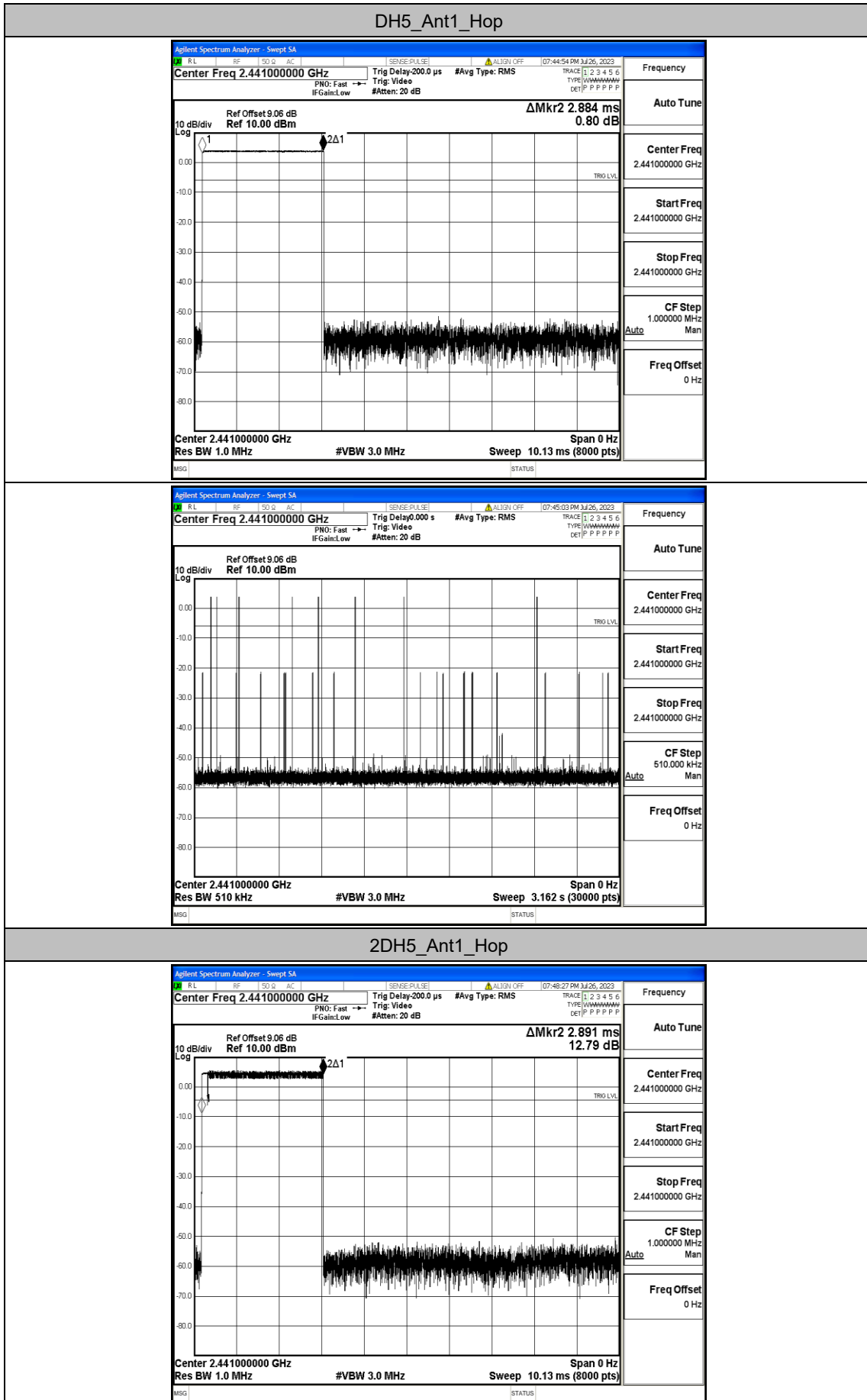


## Appendix E: Time of occupancy

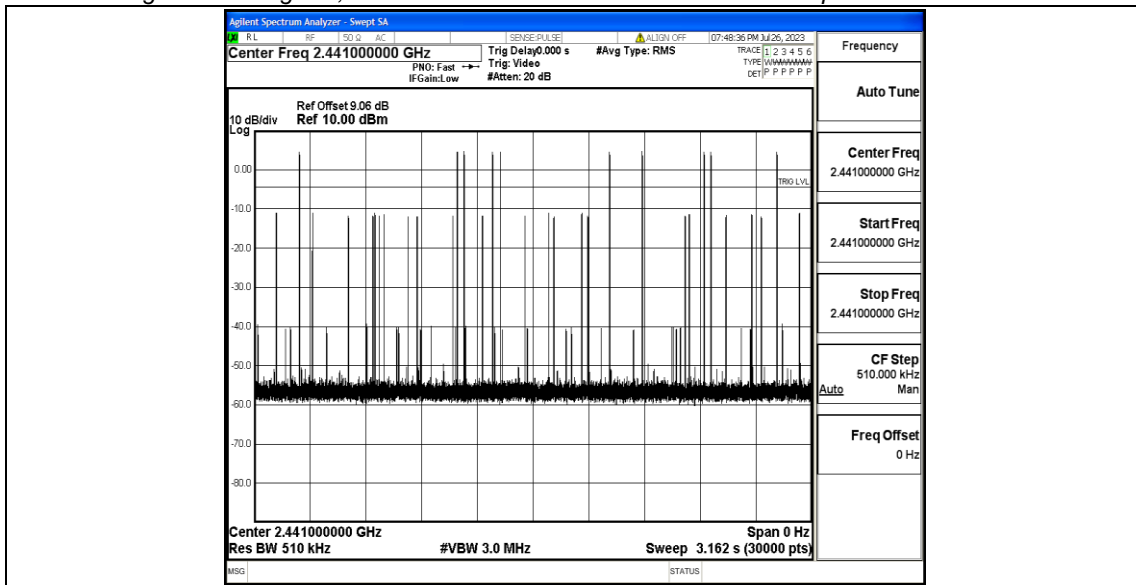
### Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.884	100	0.288	≤0.4	PASS
2DH5	Ant1	Hop	2.891	110	0.318	≤0.4	PASS
3DH5	Ant1	Hop	2.892	90	0.26	≤0.4	PASS

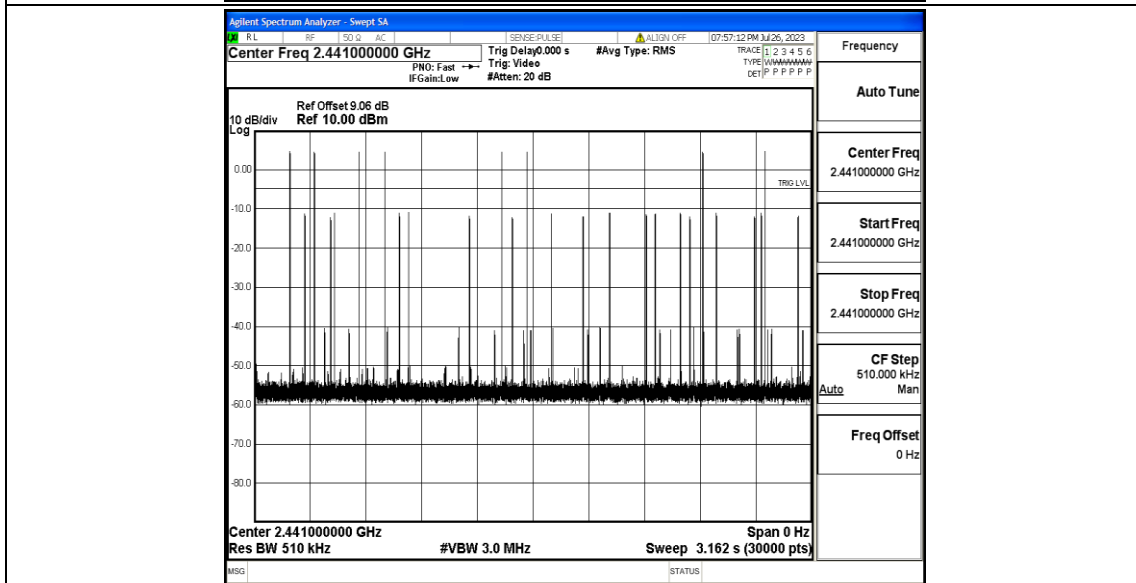
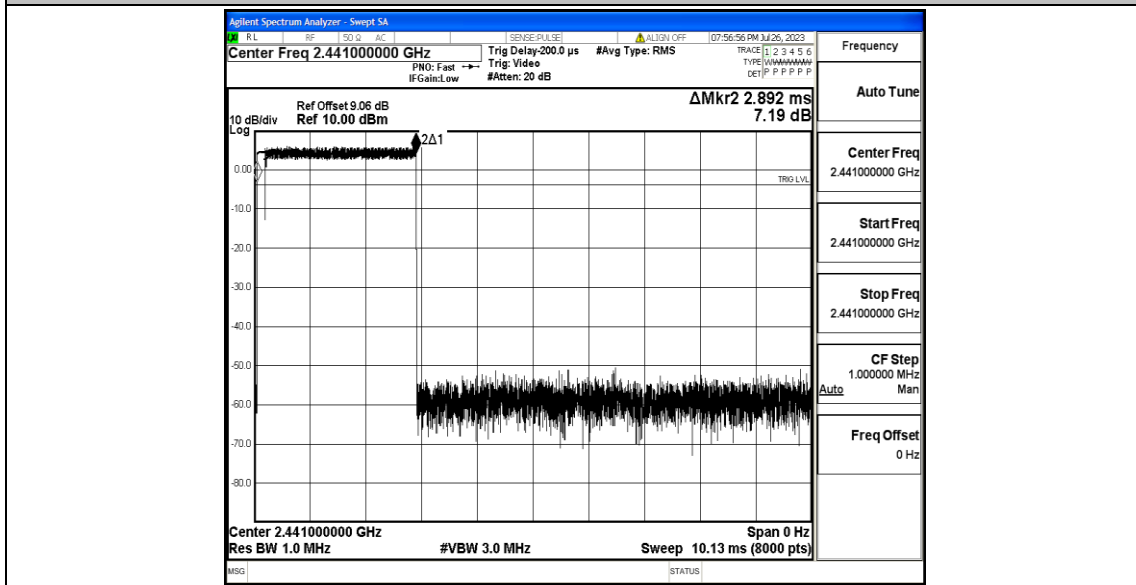
### Test Graphs







3DH5\_Ant1\_Hop

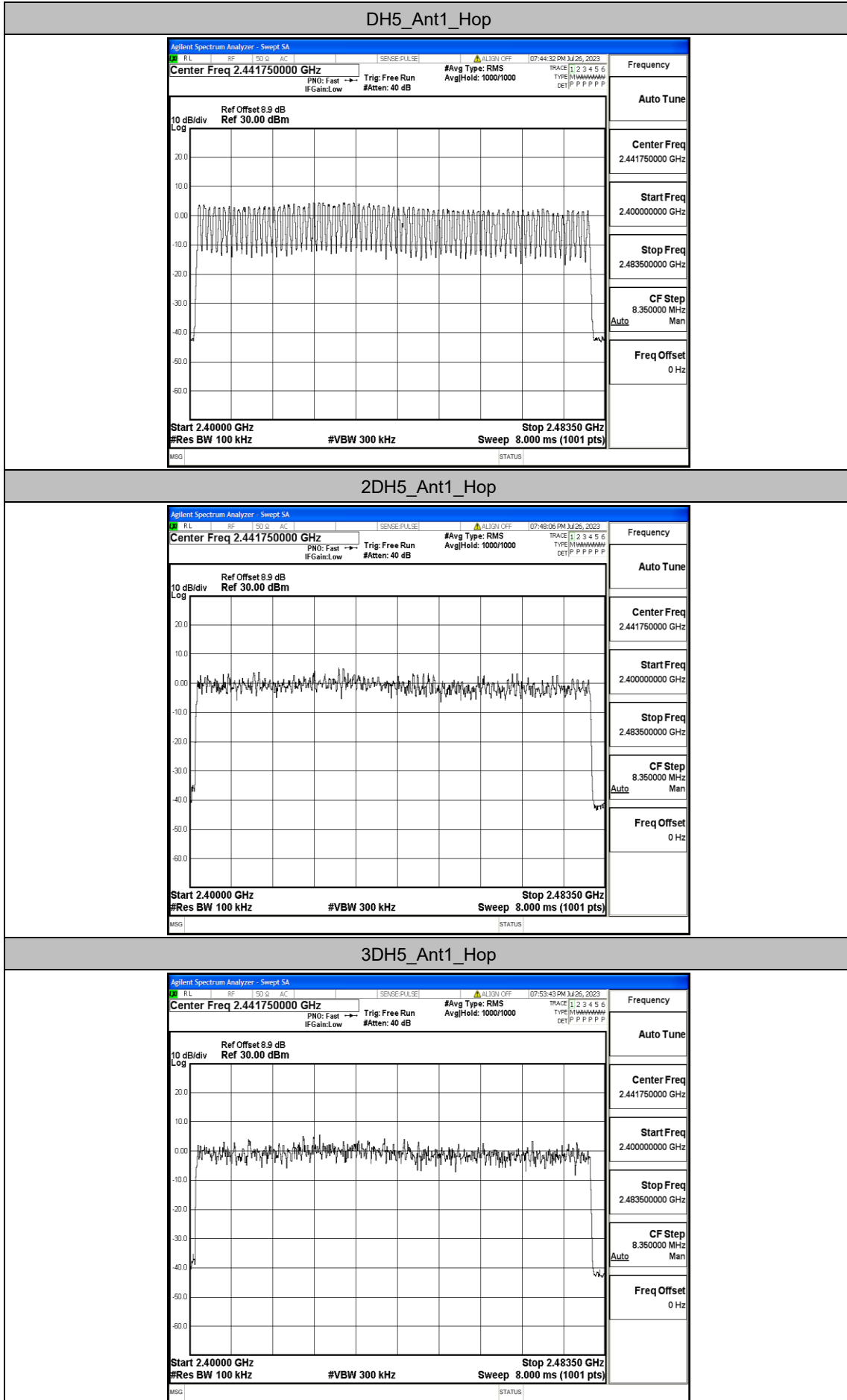


## Appendix F: Number of hopping channels

### Test Result

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

### Test Graphs



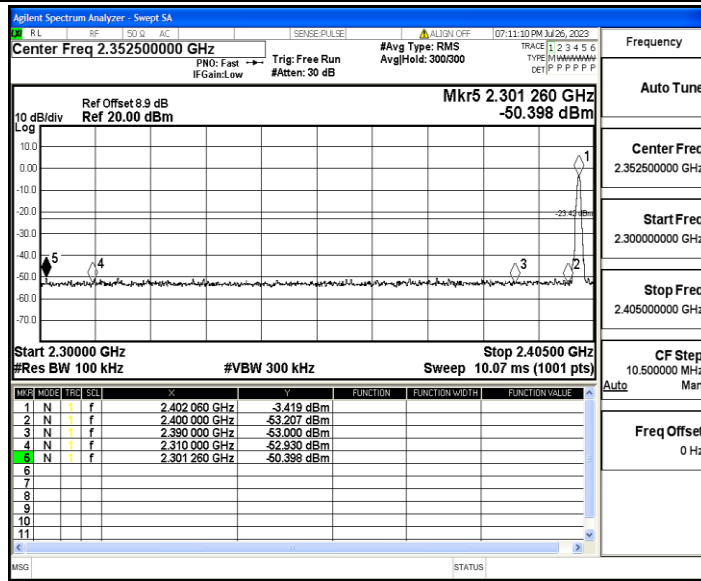
## Appendix G: Band edge measurements

### Test Result

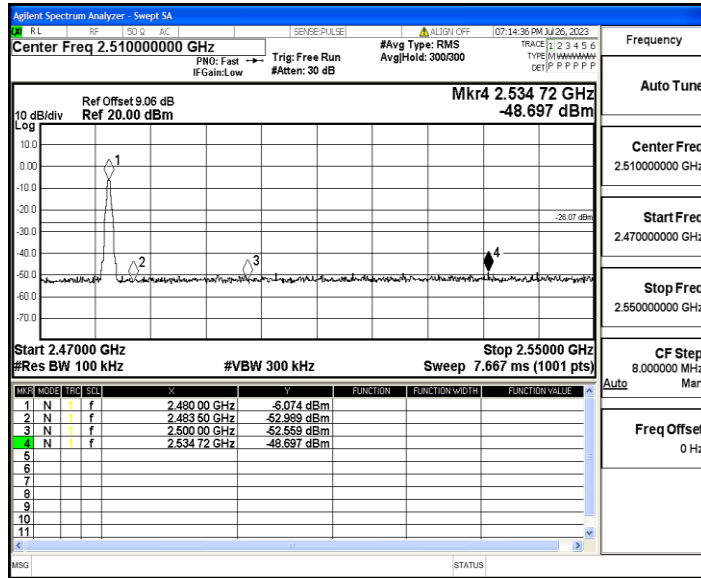
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.42	-50.4	≤-23.42	PASS
		High	2480	-6.07	-48.7	≤-26.07	PASS
		Low	Hop_2402	3.39	-50.74	≤-16.61	PASS
		High	Hop_2480	2.04	-49.79	≤-17.96	PASS
2DH5	Ant1	Low	2402	1.64	-50.26	≤-18.36	PASS
		High	2480	-0.68	-50.05	≤-20.68	PASS
		Low	Hop_2402	3.75	-50.15	≤-16.25	PASS
		High	Hop_2480	2.63	-49.18	≤-17.37	PASS
3DH5	Ant1	Low	2402	0.53	-50.46	≤-19.47	PASS
		High	2480	-1.71	-49.16	≤-21.71	PASS
		Low	Hop_2402	1.48	-49.49	≤-18.52	PASS
		High	Hop_2480	2.43	-49.73	≤-17.57	PASS

Test Graphs

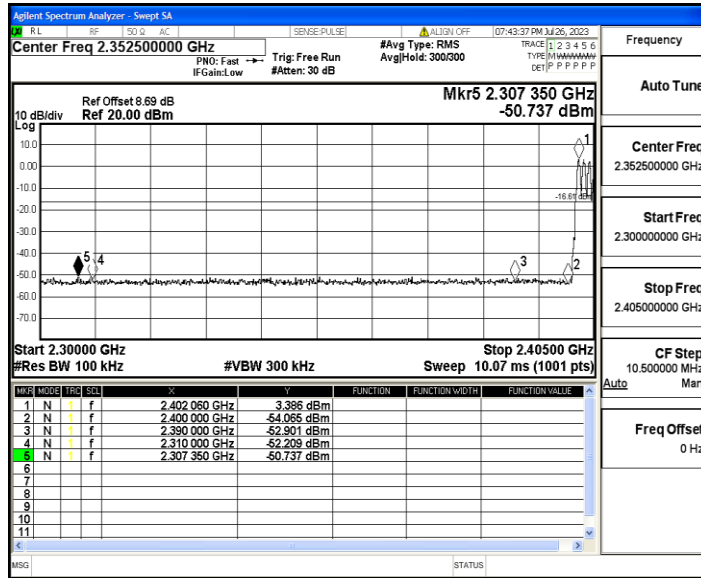
DH5\_Ant1\_Low\_2402



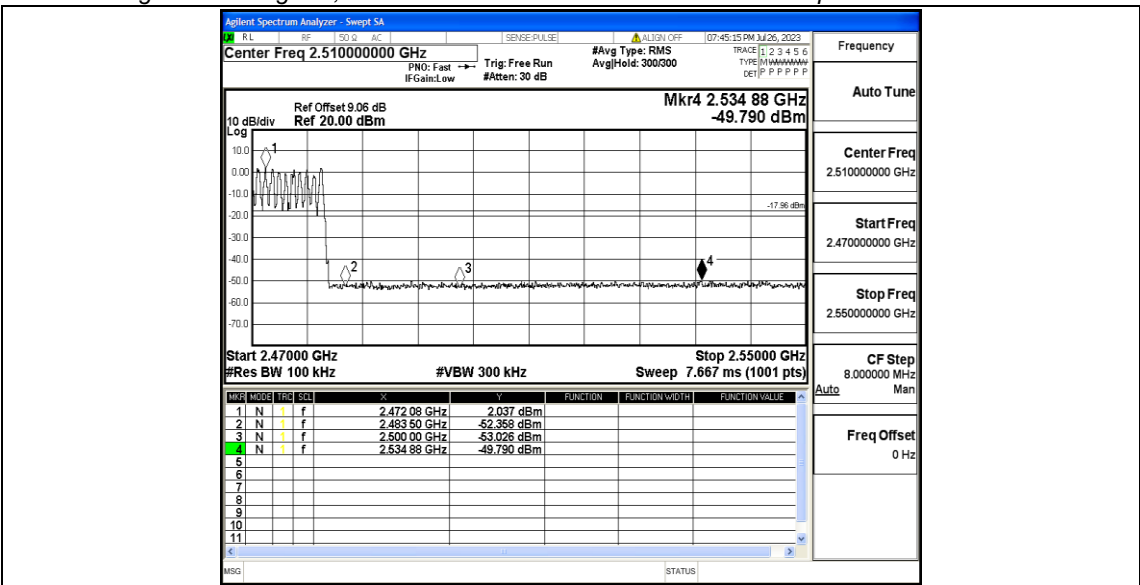
DH5\_Ant1\_High\_2480



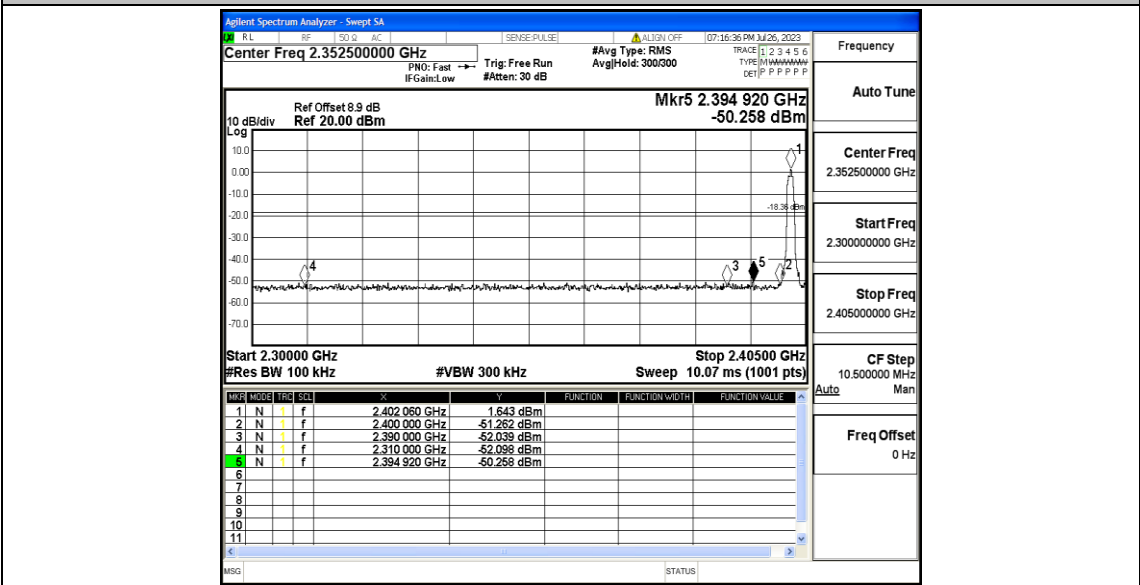
DH5\_Ant1\_Low\_Hop\_2402



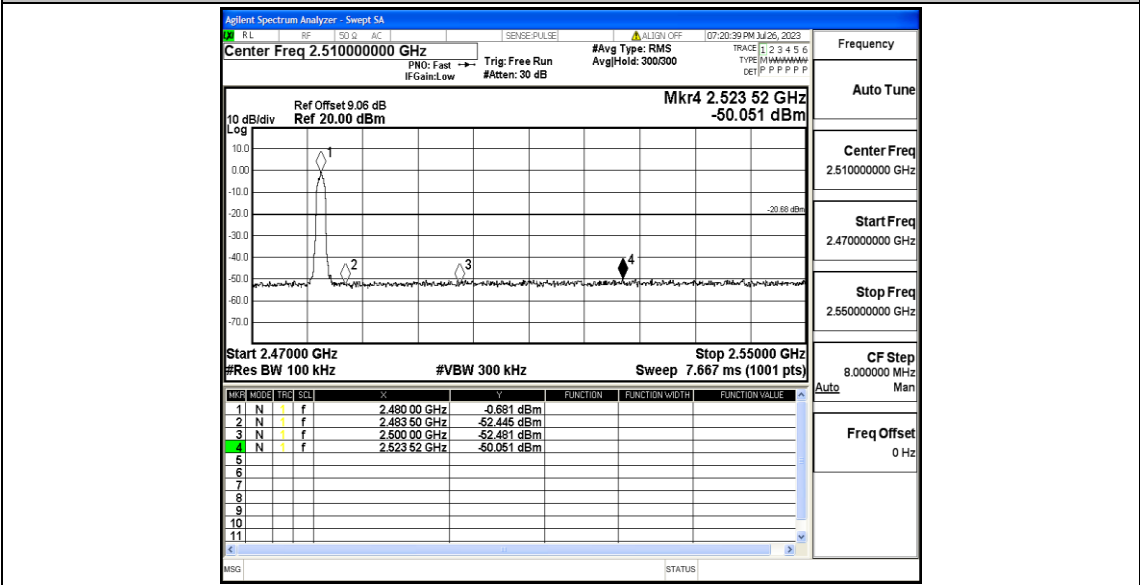
DH5\_Ant1\_High\_Hop\_2480



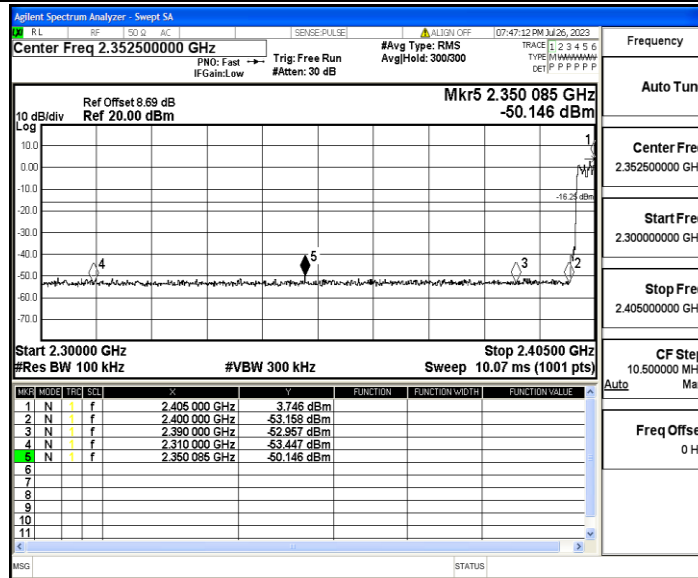
2DH5\_Ant1\_Low\_2402



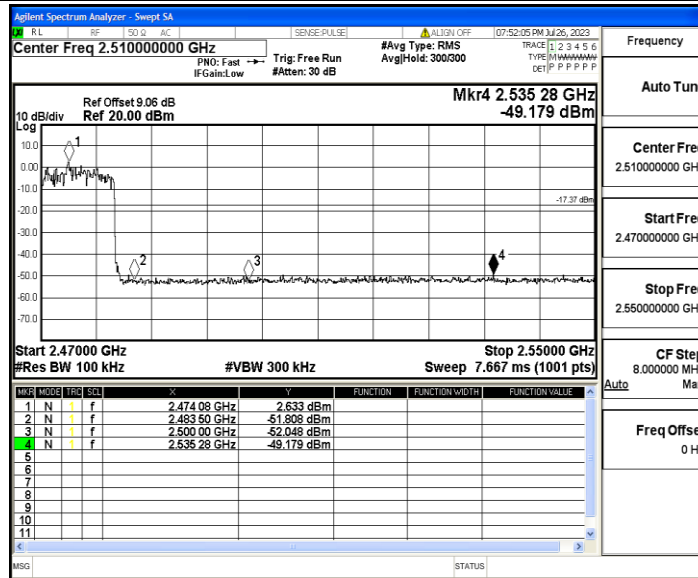
2DH5\_Ant1\_High\_2480



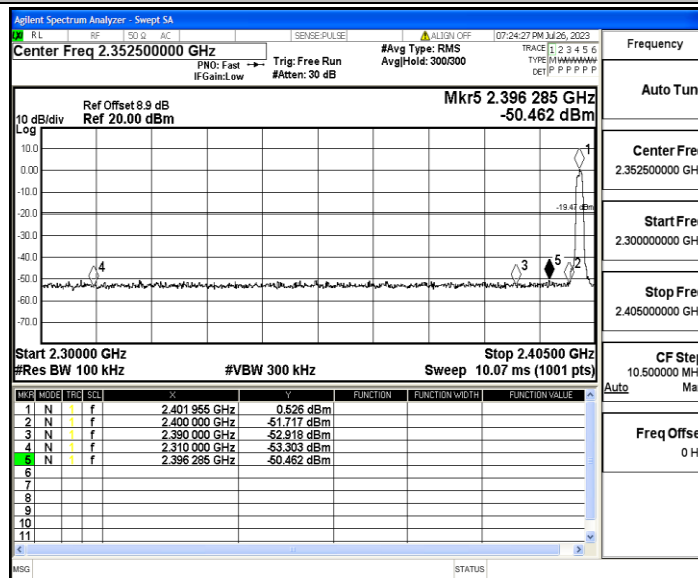
2DH5\_Ant1\_Low\_Hop\_2402



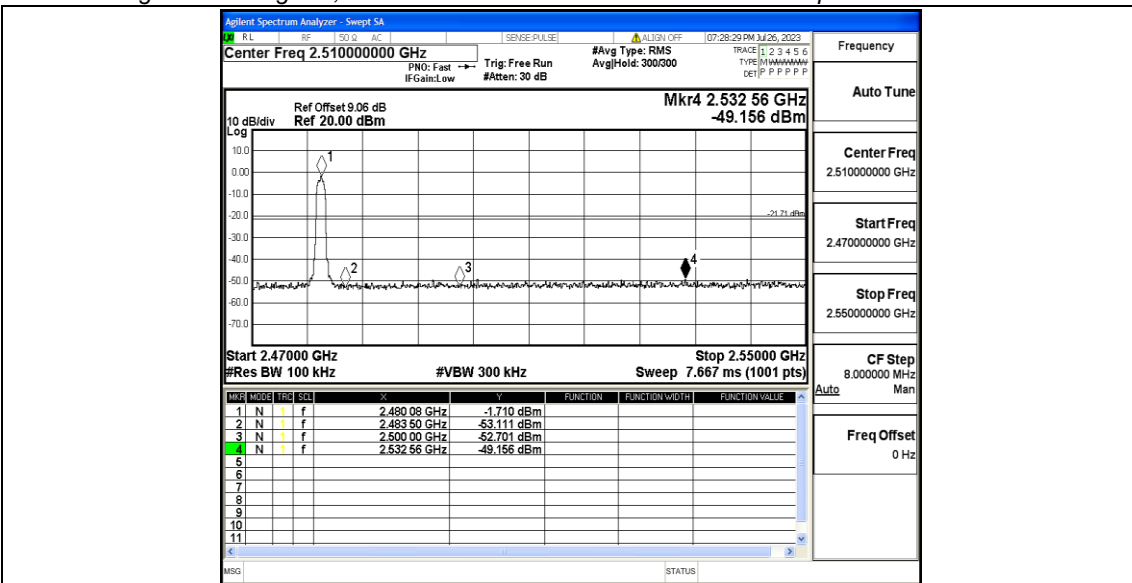
2DH5\_Ant1\_High\_Hop\_2480



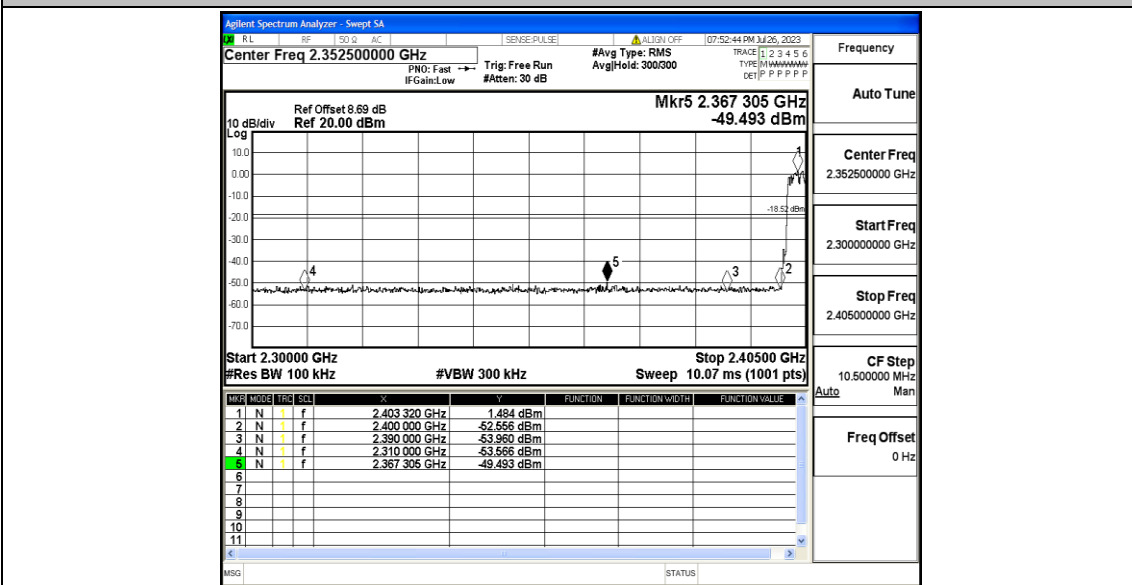
3DH5\_Ant1\_Low\_2402



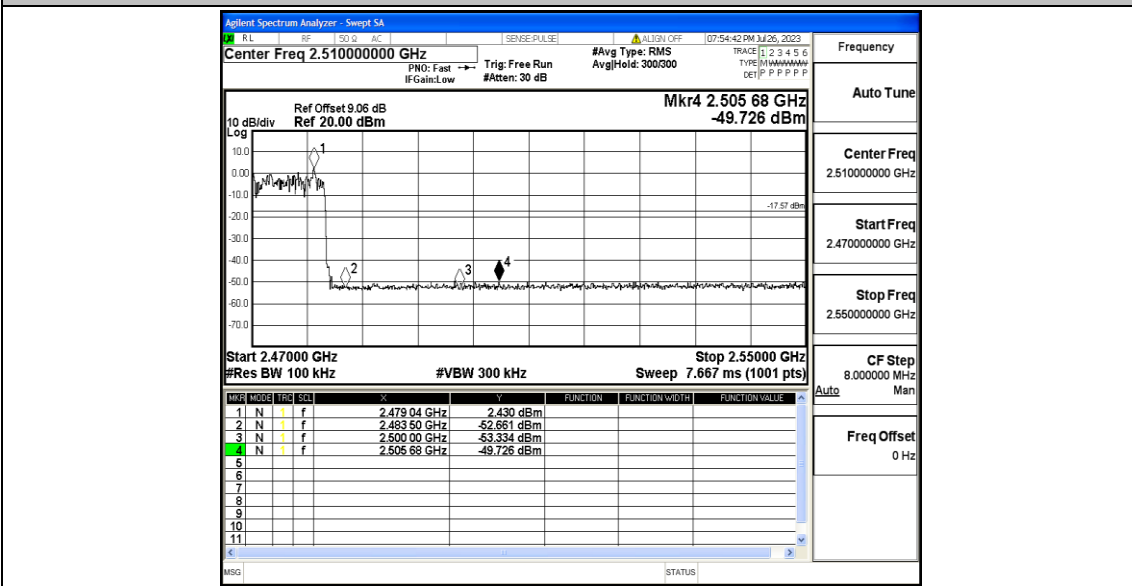
3DH5\_Ant1\_High\_2480



3DH5\_Ant1\_Low\_Hop\_2402



3DH5\_Ant1\_High\_Hop\_2480



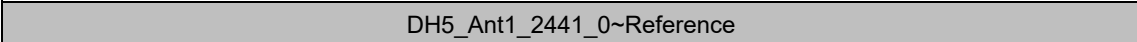
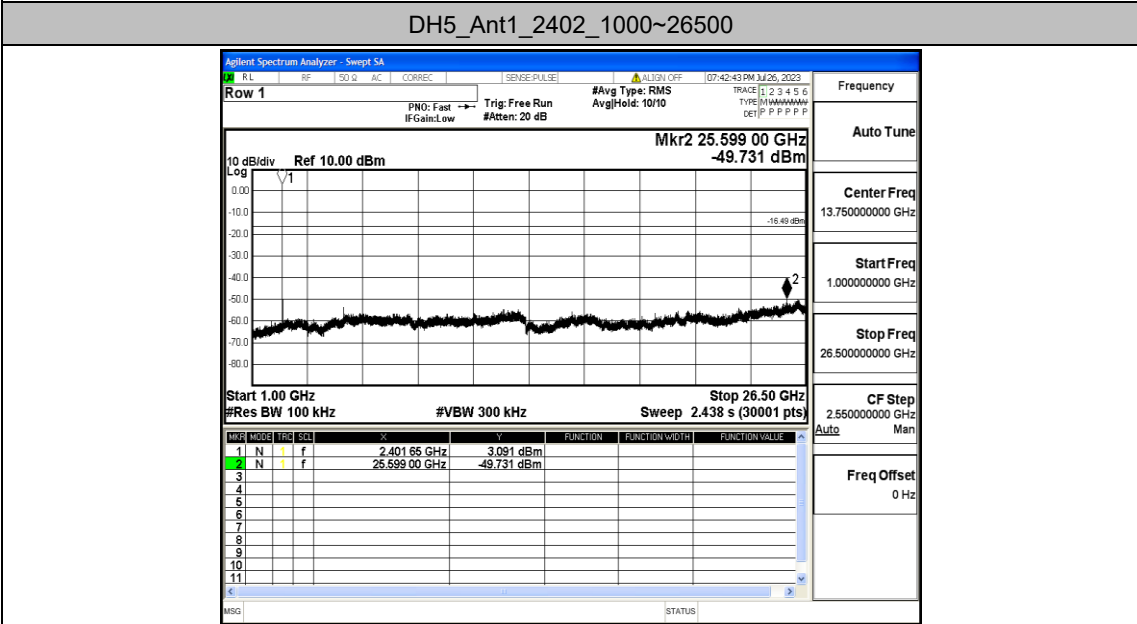
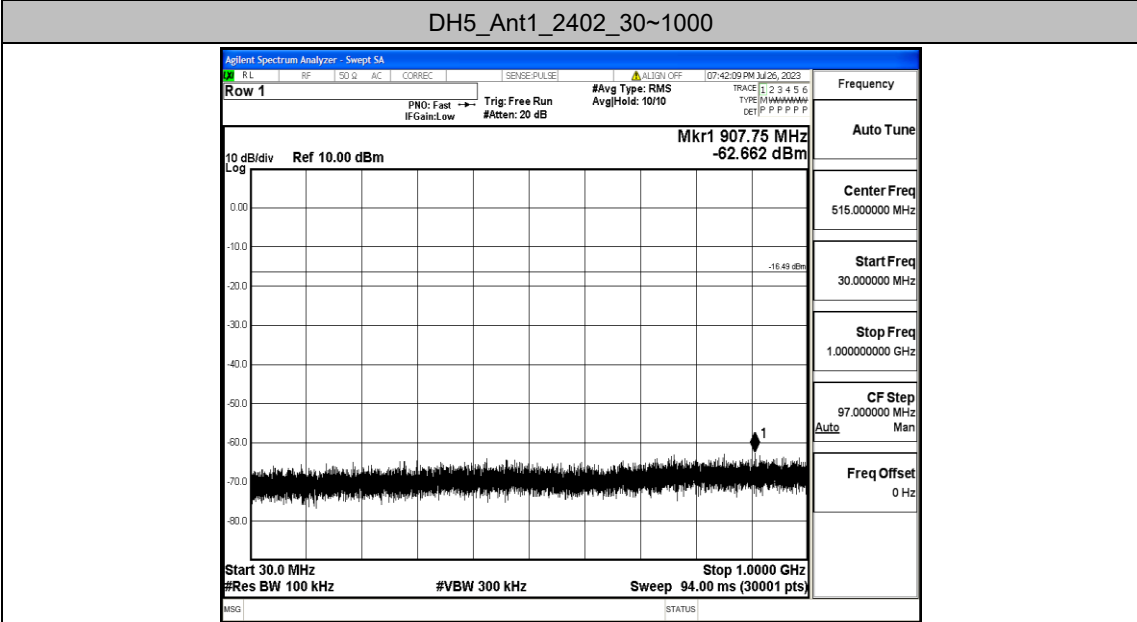
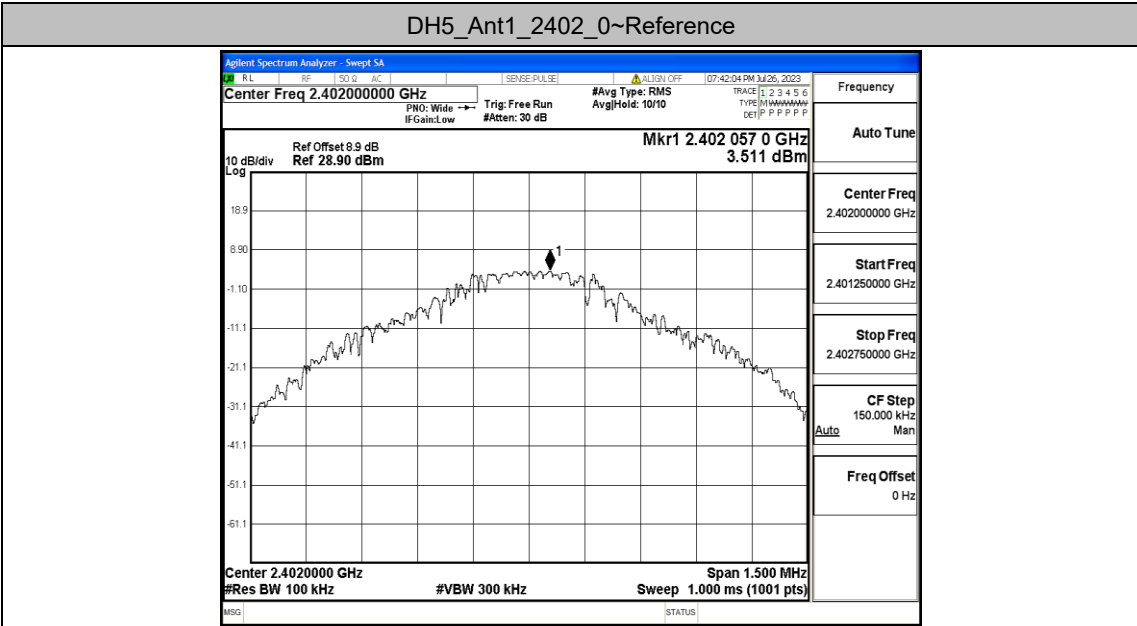


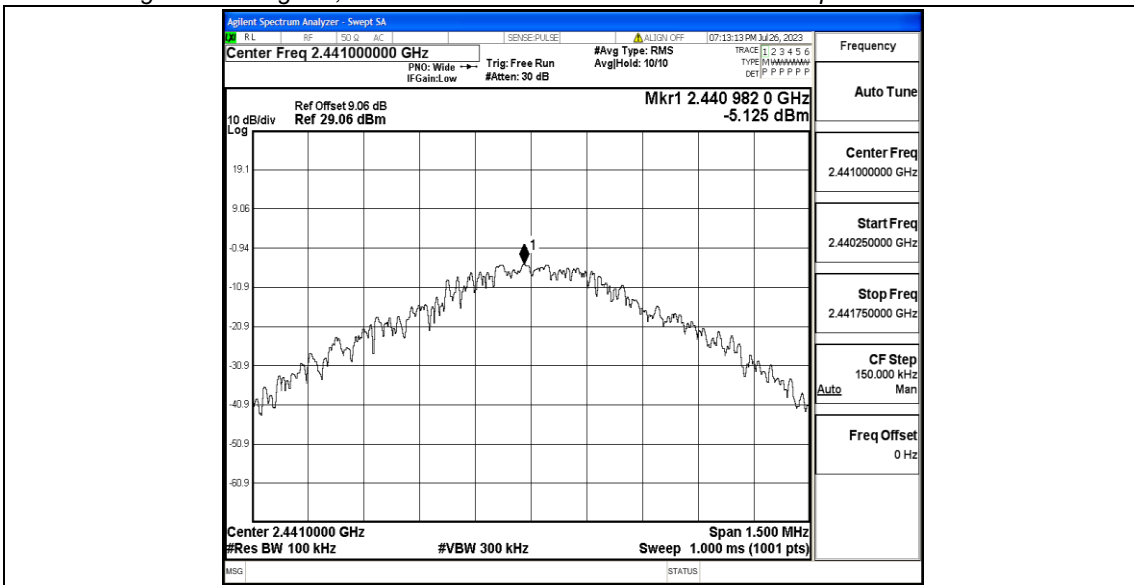
## Appendix H: Conducted Spurious Emission

### Test Result

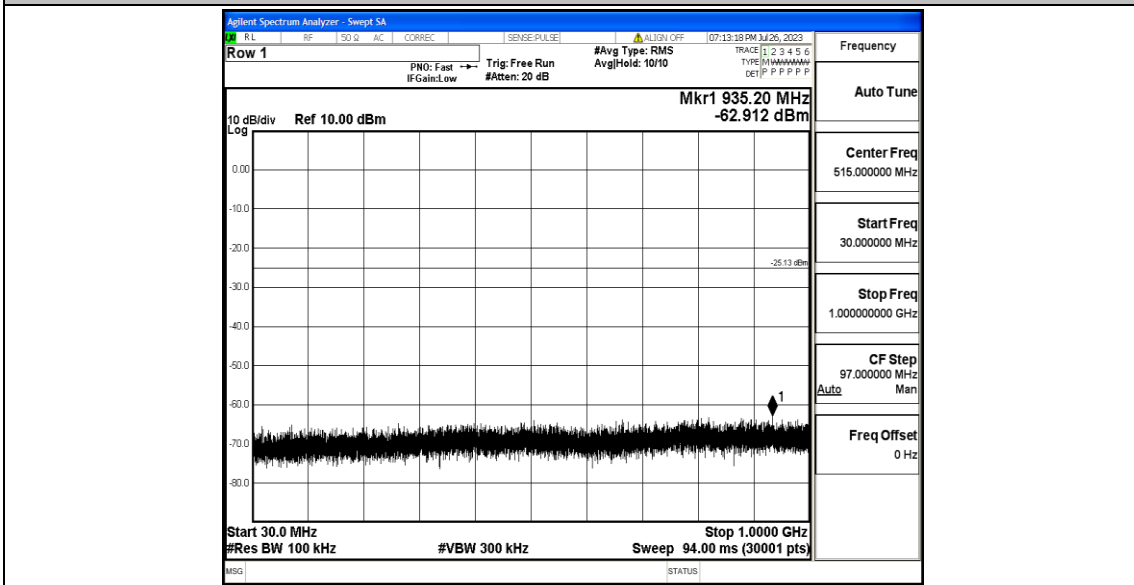
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	3.51	3.51	---	PASS
			30~1000	3.51	-62.66	≤-16.49	PASS
			1000~26500	3.51	-49.73	≤-16.49	PASS
		2441	Reference	-5.13	-5.13	---	PASS
			30~1000	-5.13	-62.91	≤-25.13	PASS
			1000~26500	-5.13	-49.79	≤-25.13	PASS
		2480	Reference	-6.74	-6.74	---	PASS
			30~1000	-6.74	-63.22	≤-26.74	PASS
			1000~26500	-6.74	-49.79	≤-26.74	PASS
2DH5	Ant1	2402	Reference	-0.57	-0.57	---	PASS
			30~1000	-0.57	-62.56	≤-20.57	PASS
			1000~26500	-0.57	-49.96	≤-20.57	PASS
		2441	Reference	-2.68	-2.68	---	PASS
			30~1000	-2.68	-62.33	≤-22.68	PASS
			1000~26500	-2.68	-49.48	≤-22.68	PASS
		2480	Reference	-4.11	-4.11	---	PASS
			30~1000	-4.11	-62.37	≤-24.11	PASS
			1000~26500	-4.11	-50.4	≤-24.11	PASS
3DH5	Ant1	2402	Reference	-0.02	-0.02	---	PASS
			30~1000	-0.02	-62.24	≤-20.02	PASS
			1000~26500	-0.02	-49.7	≤-20.02	PASS
		2441	Reference	0.82	0.82	---	PASS
			30~1000	0.82	-61.99	≤-19.18	PASS
			1000~26500	0.82	-50.59	≤-19.18	PASS
		2480	Reference	-3.20	-3.20	---	PASS
			30~1000	-3.20	-62.41	≤-23.2	PASS
			1000~26500	-3.20	-49.77	≤-23.2	PASS

Test Graphs

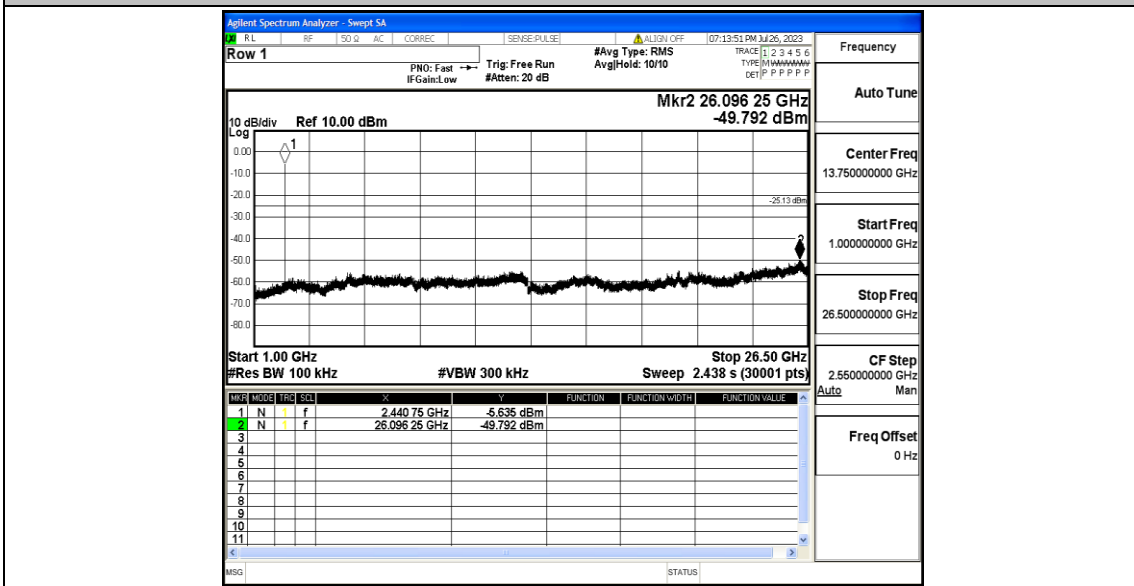




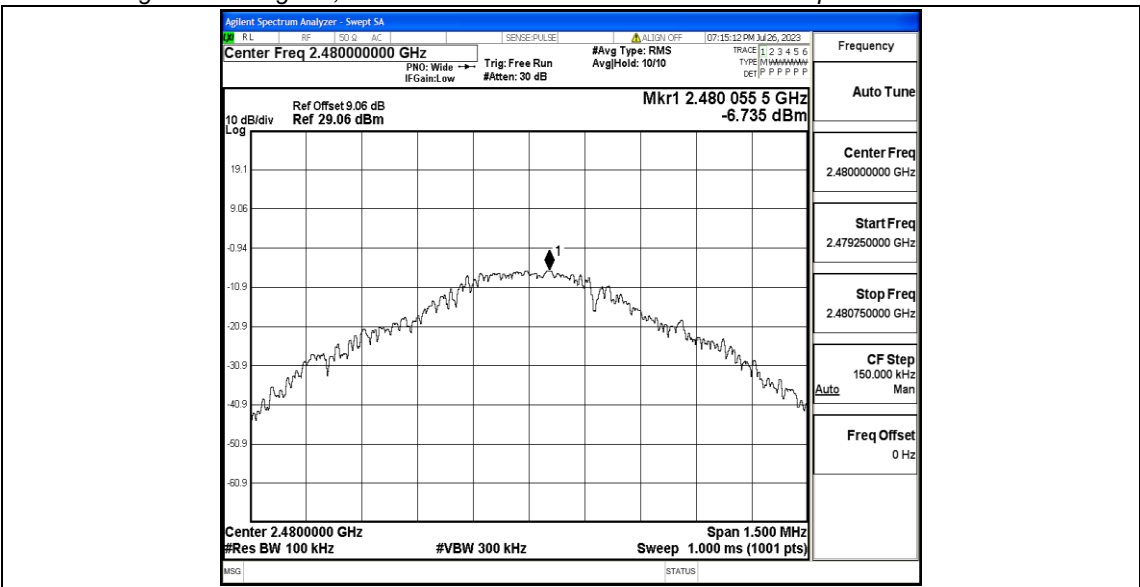
DH5\_Ant1\_2441\_30~1000



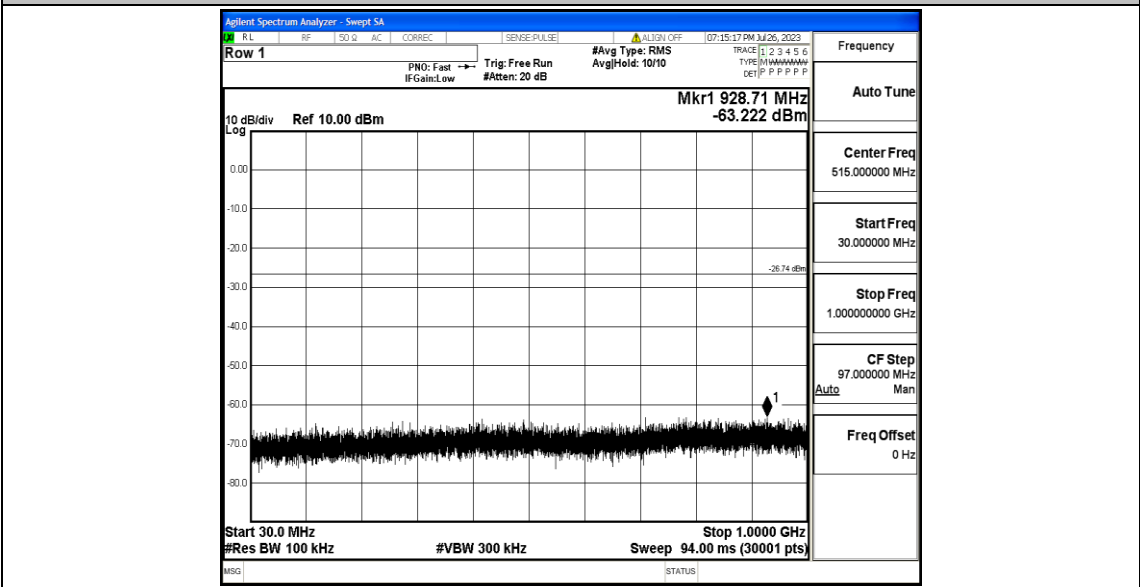
DH5\_Ant1\_2441\_1000~26500



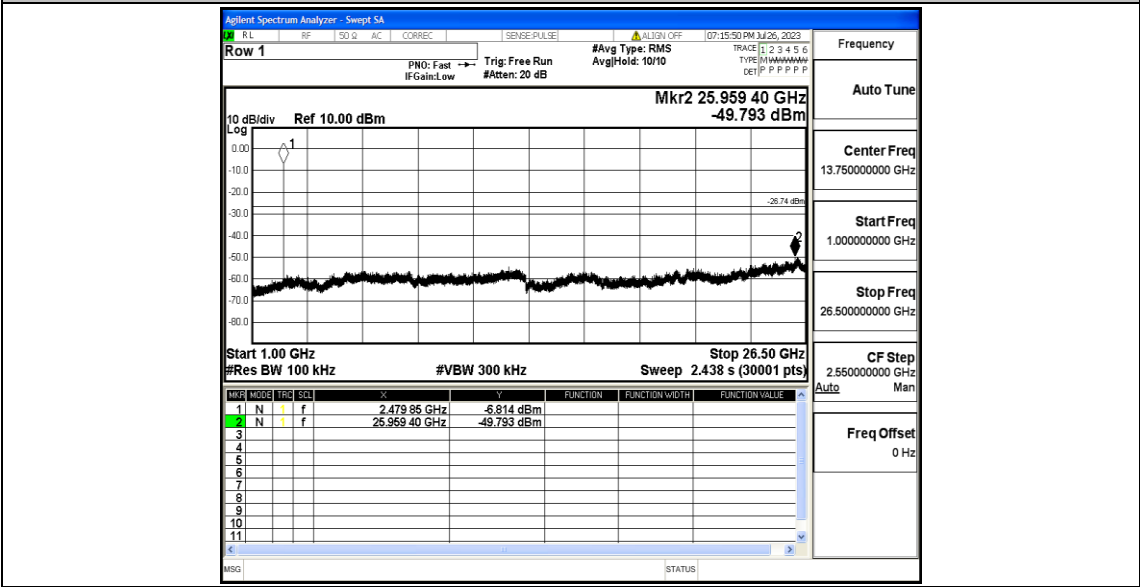
DH5\_Ant1\_2480\_0~Reference



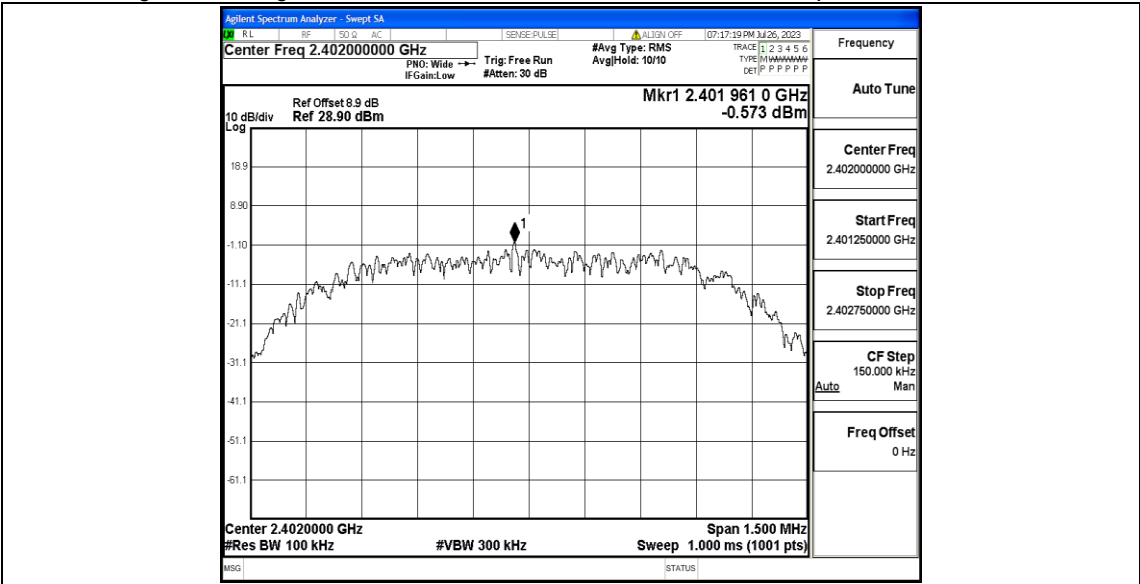
DH5\_Ant1\_2480\_30~1000



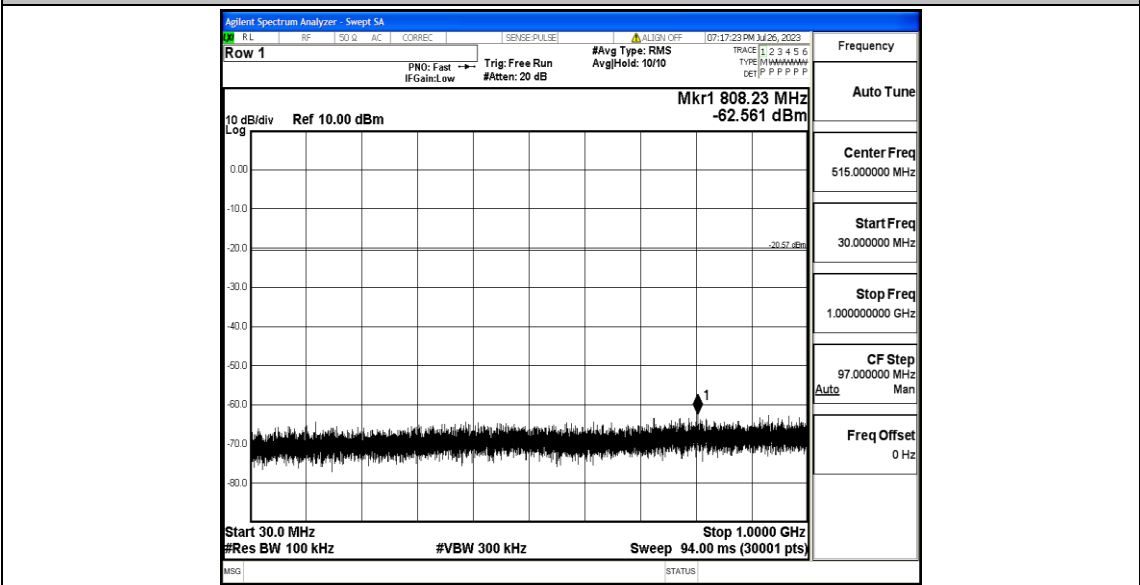
DH5\_Ant1\_2480\_1000~26500



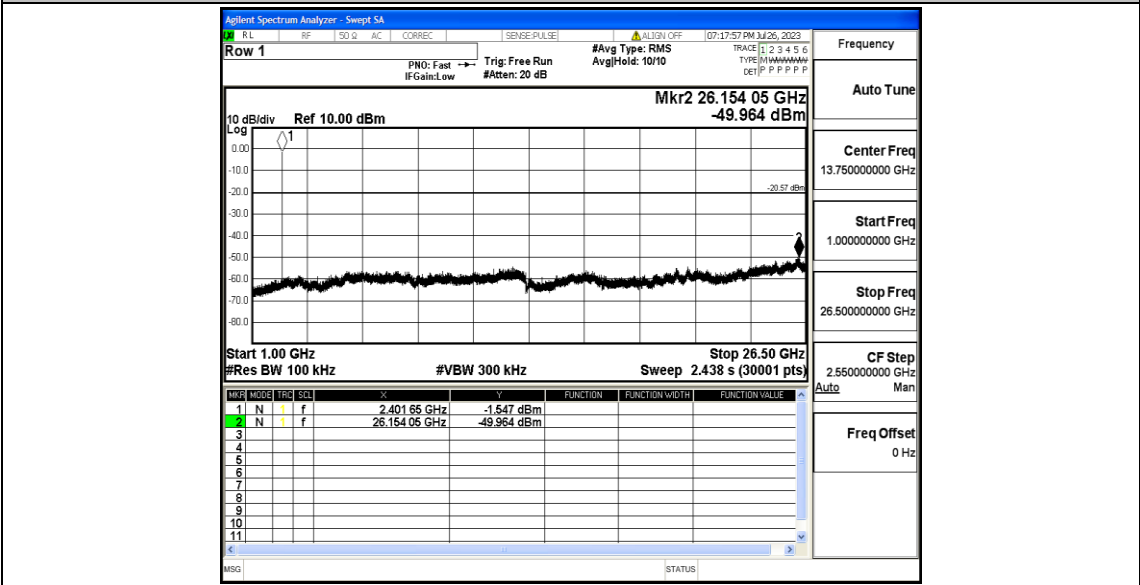
2DH5\_Ant1\_2402\_0~Reference



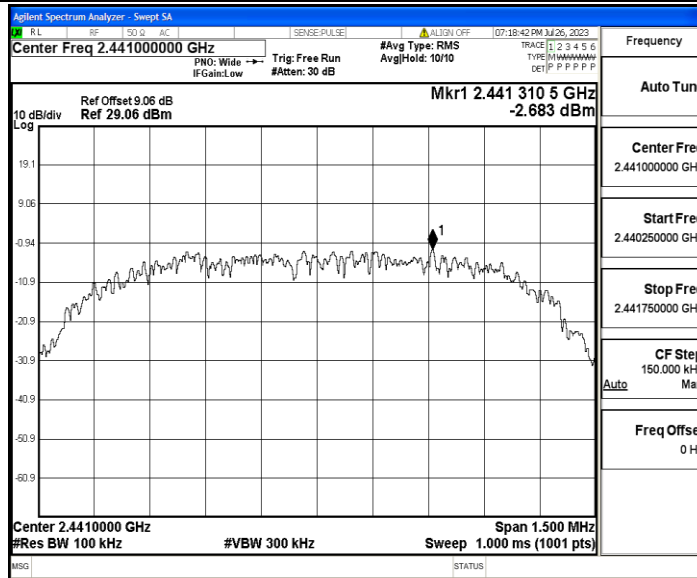
2DH5\_Ant1\_2402\_30~1000



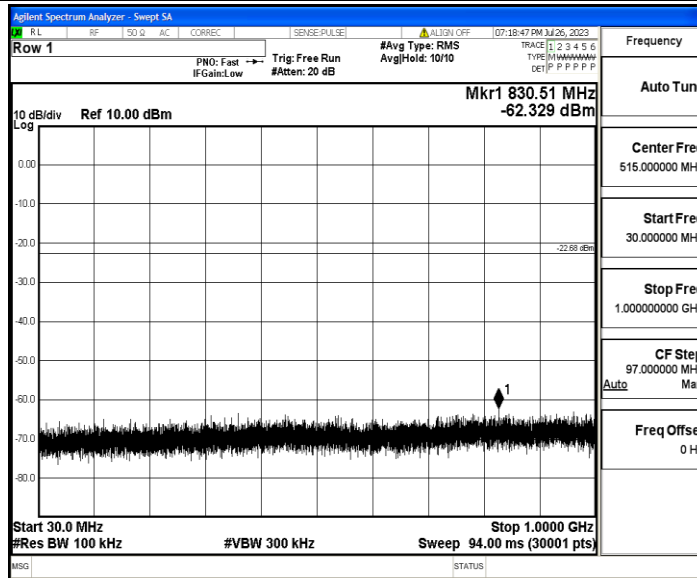
2DH5\_Ant1\_2402\_1000~26500



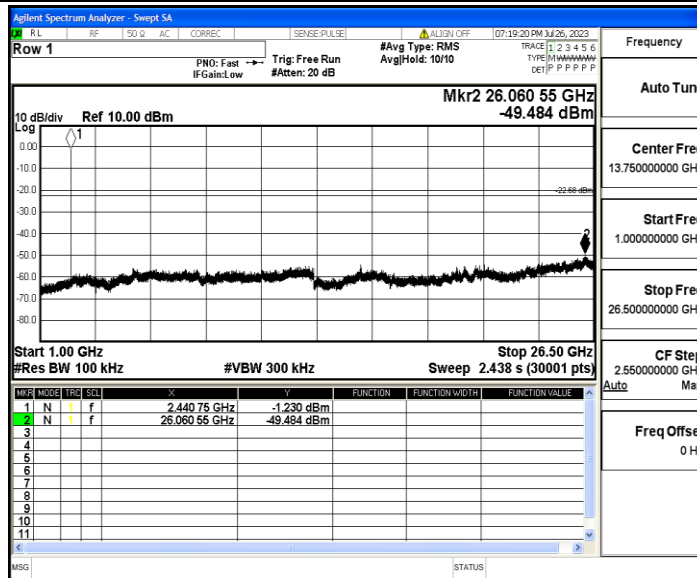
2DH5\_Ant1\_2441\_0~Reference



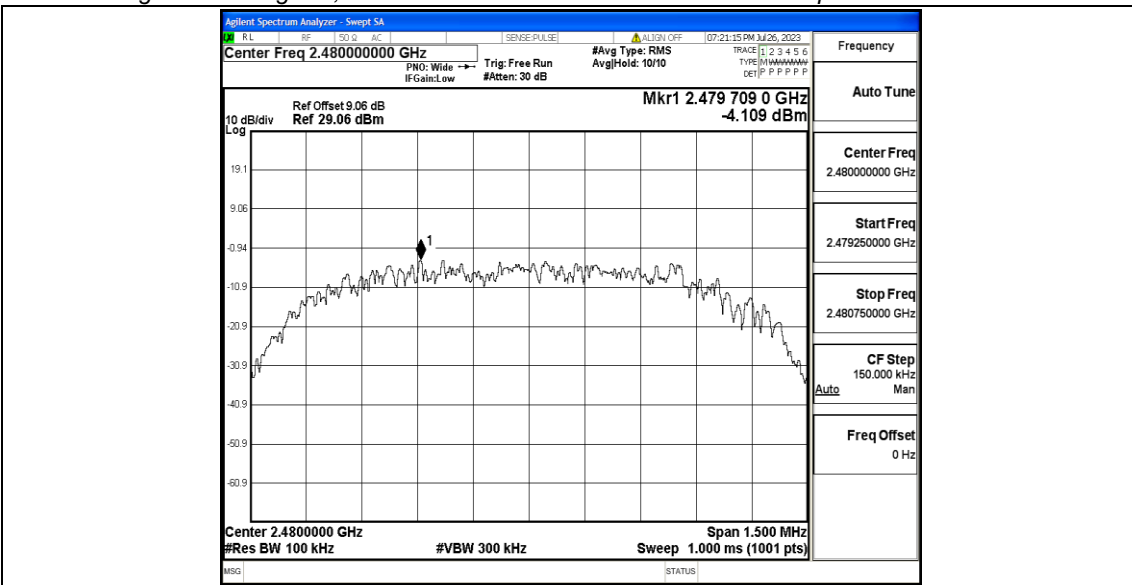
2DH5\_Ant1\_2441\_30~1000



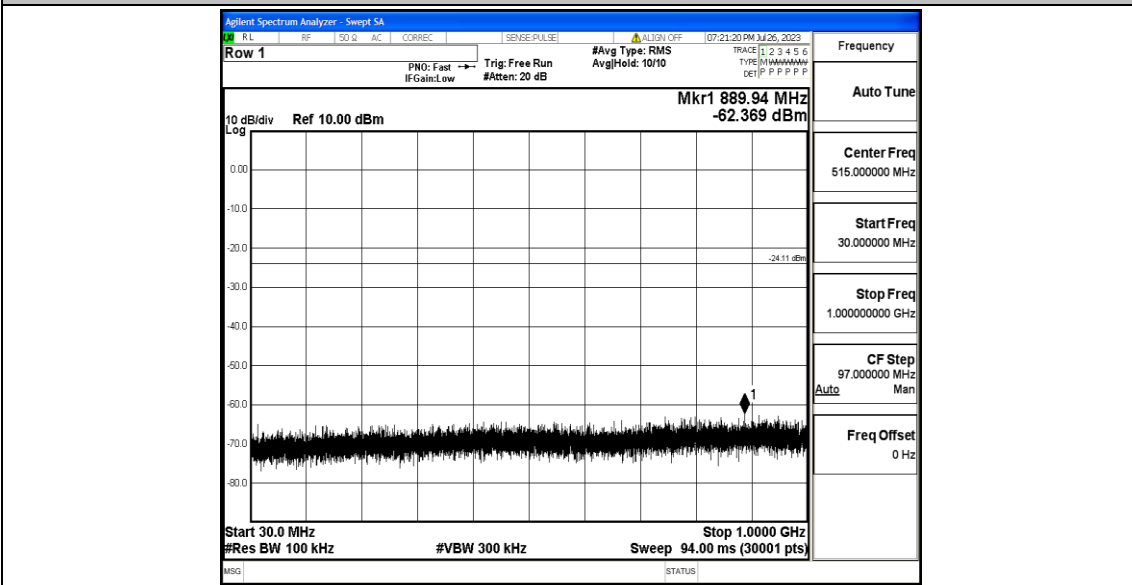
2DH5\_Ant1\_2441\_1000~26500



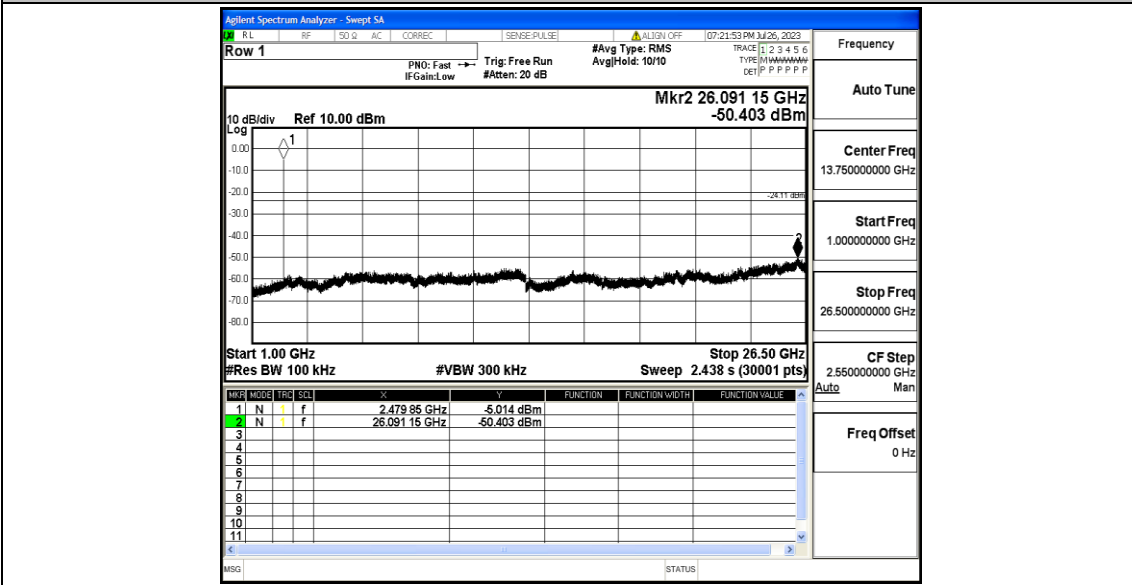
2DH5\_Ant1\_2480\_0~Reference



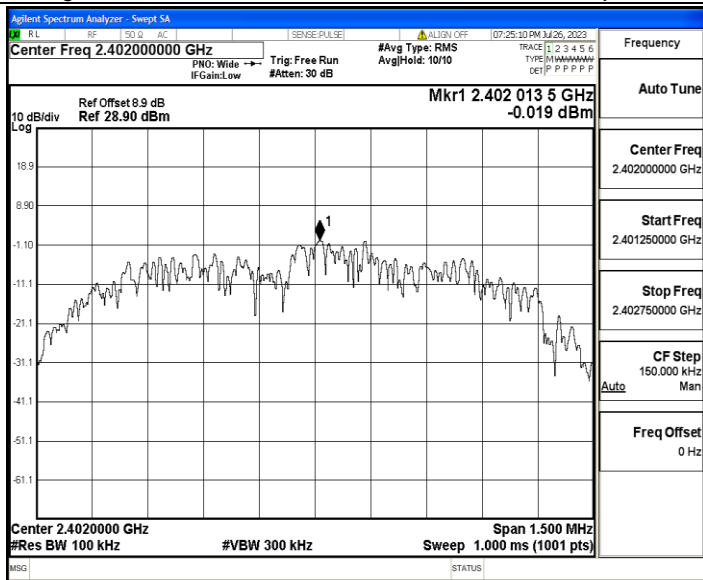
2DH5\_Ant1\_2480\_30~1000



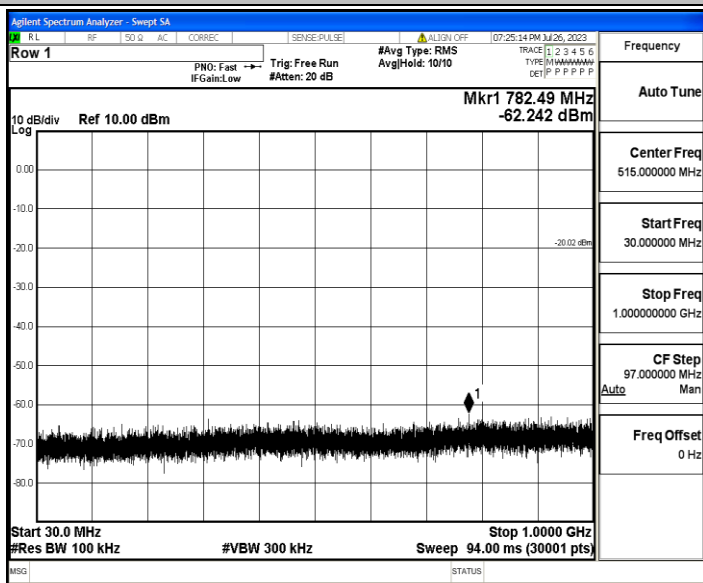
2DH5\_Ant1\_2480\_1000~26500



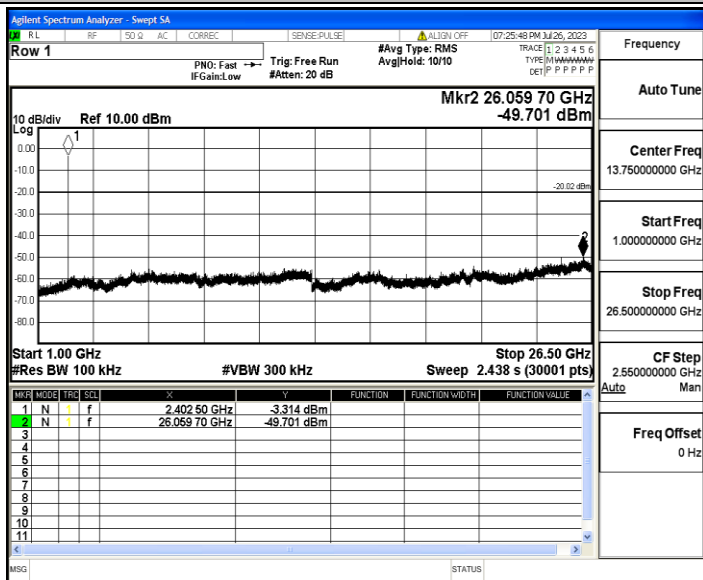
3DH5\_Ant1\_2402\_0~Reference



3DH5\_Ant1\_2402\_30~1000

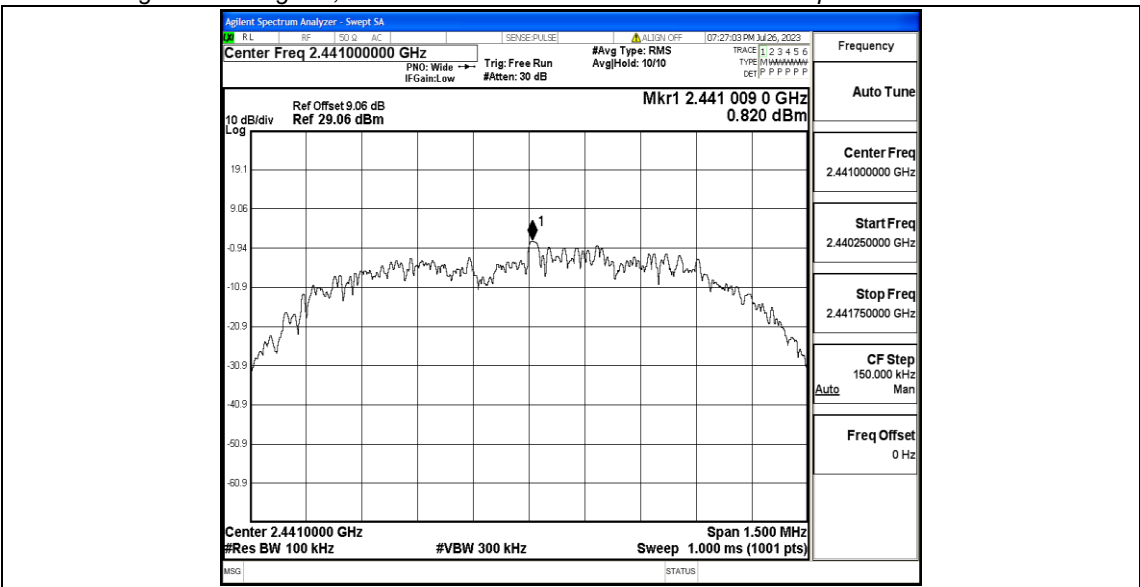


3DH5\_Ant1\_2402\_1000~26500

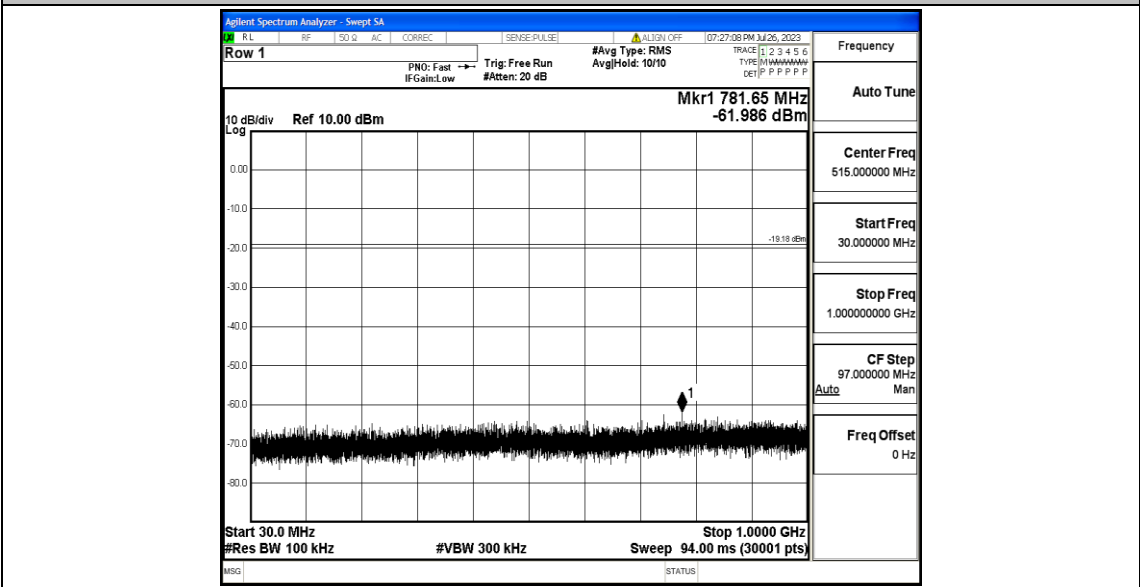


3DH5\_Ant1\_2441\_0~Reference

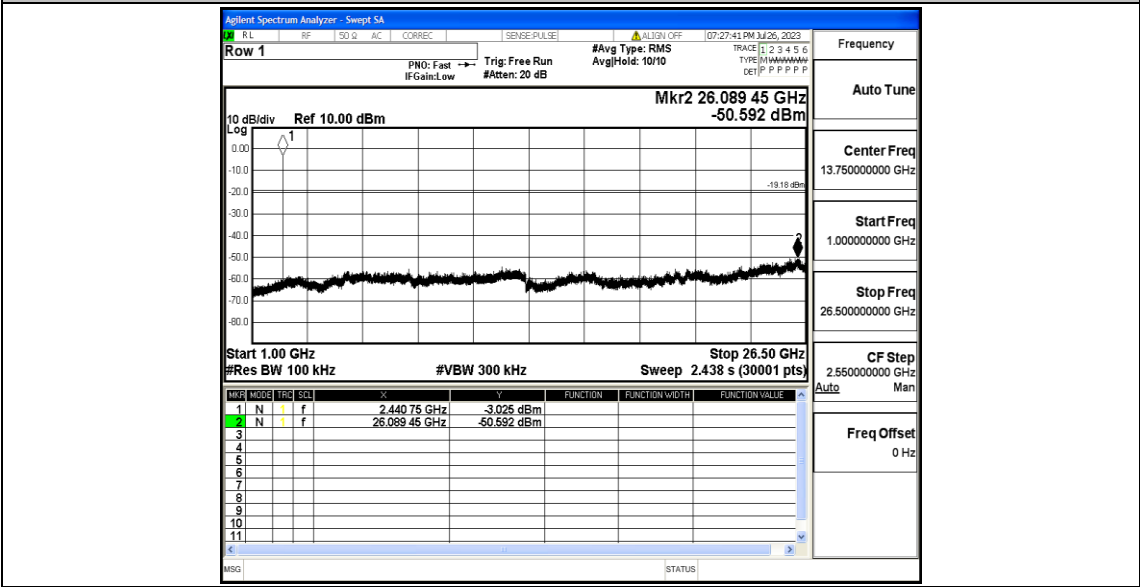




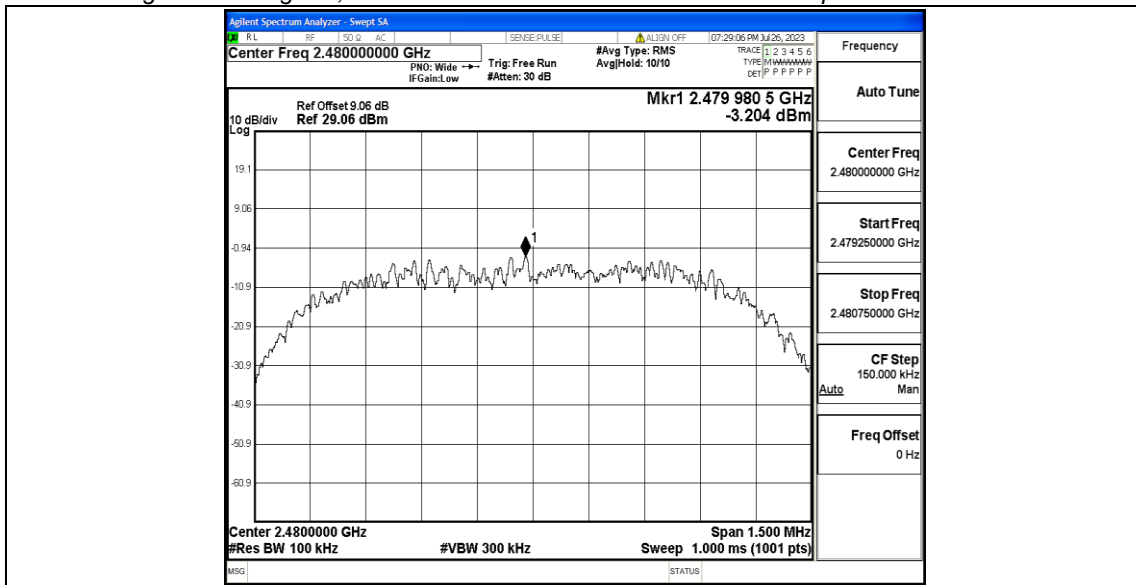
3DH5\_Ant1\_2441\_30~1000



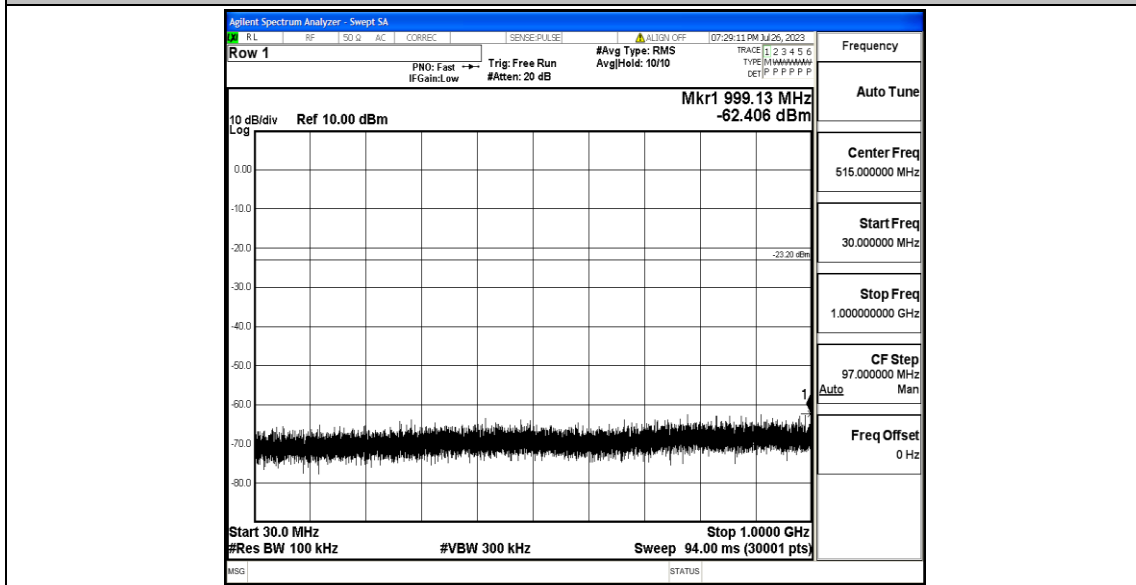
3DH5\_Ant1\_2441\_1000~26500



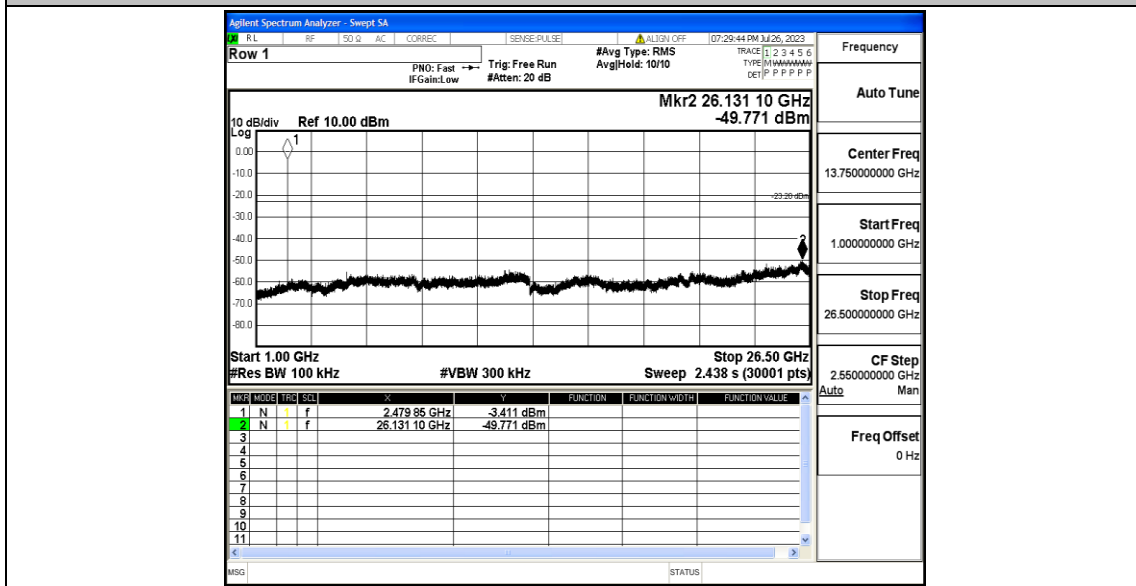
3DH5\_Ant1\_2480\_0~Reference



3DH5\_Ant1\_2480\_30~1000



3DH5\_Ant1\_2480\_1000~26500

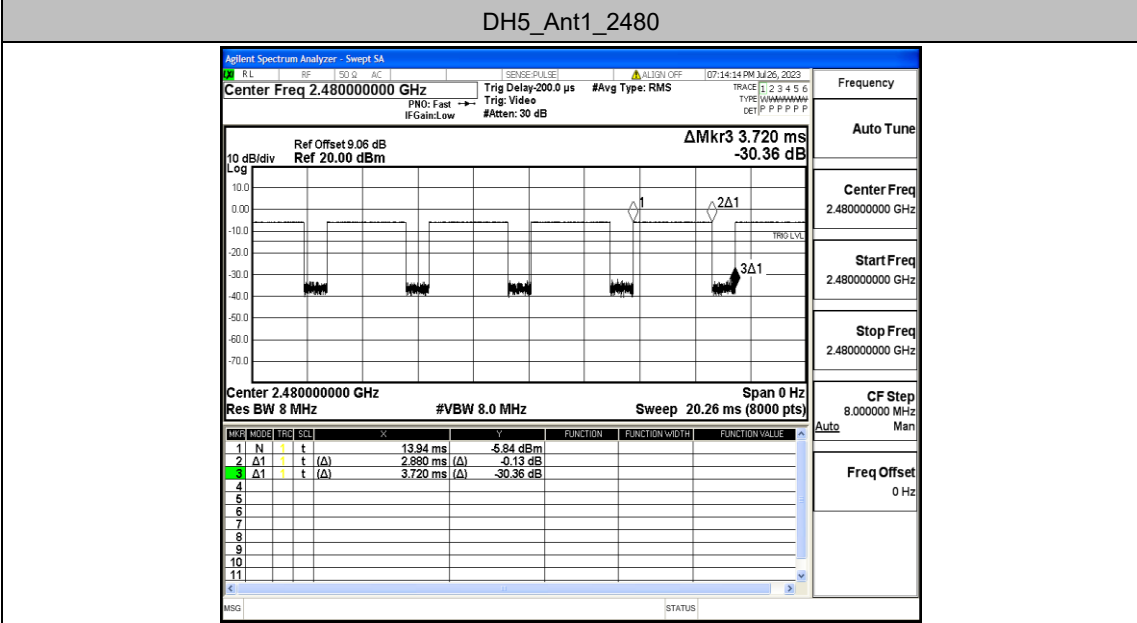
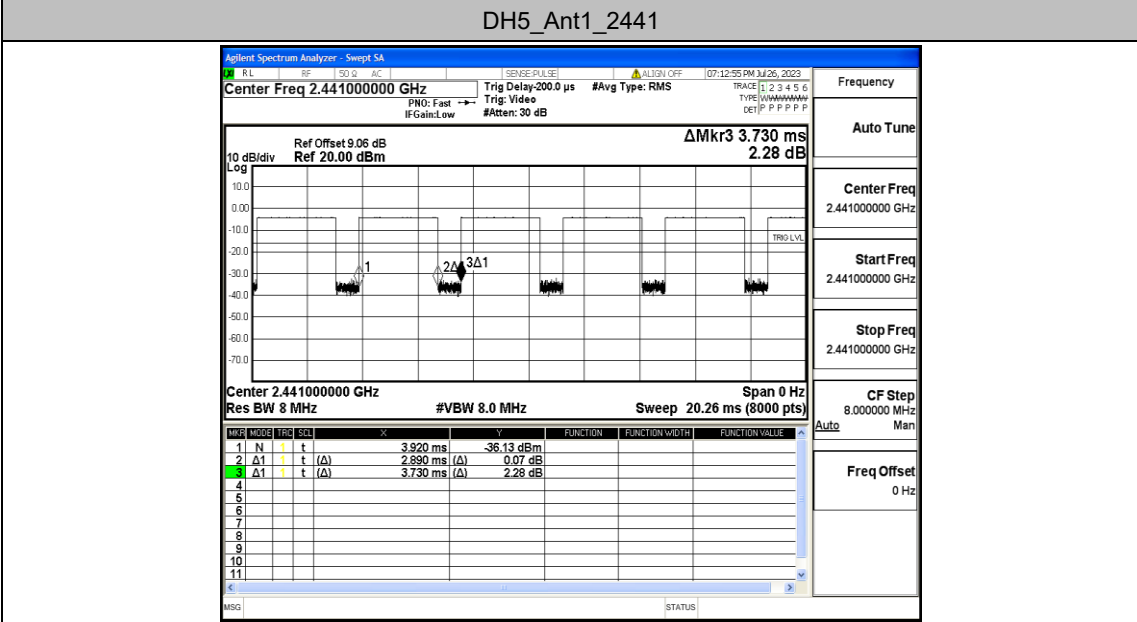
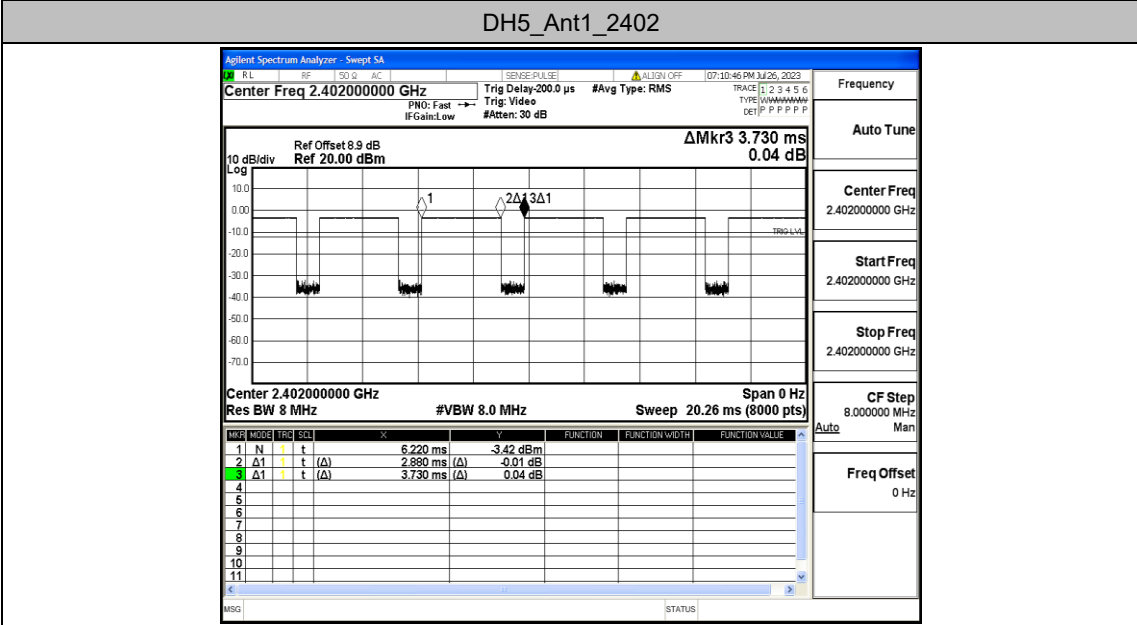


## Appendix I: Duty Cycle

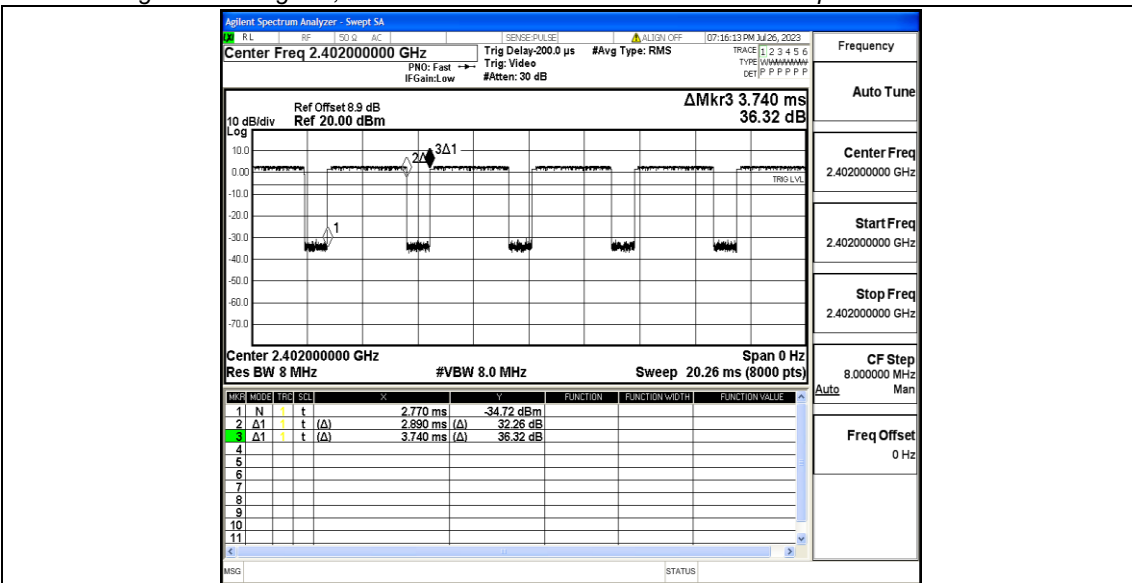
### Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
DH5	Ant1	2402	2.88	3.73	77.21	0.35
		2441	2.89	3.73	77.48	0.35
		2480	2.88	3.72	77.42	0.35
2DH5	Ant1	2402	2.89	3.74	77.27	0.35
		2441	2.89	3.73	77.48	0.35
		2480	2.89	3.73	77.48	0.35
3DH5	Ant1	2402	2.89	3.73	77.48	0.35
		2441	2.89	3.74	77.27	0.35
		2480	2.88	3.73	77.21	0.35

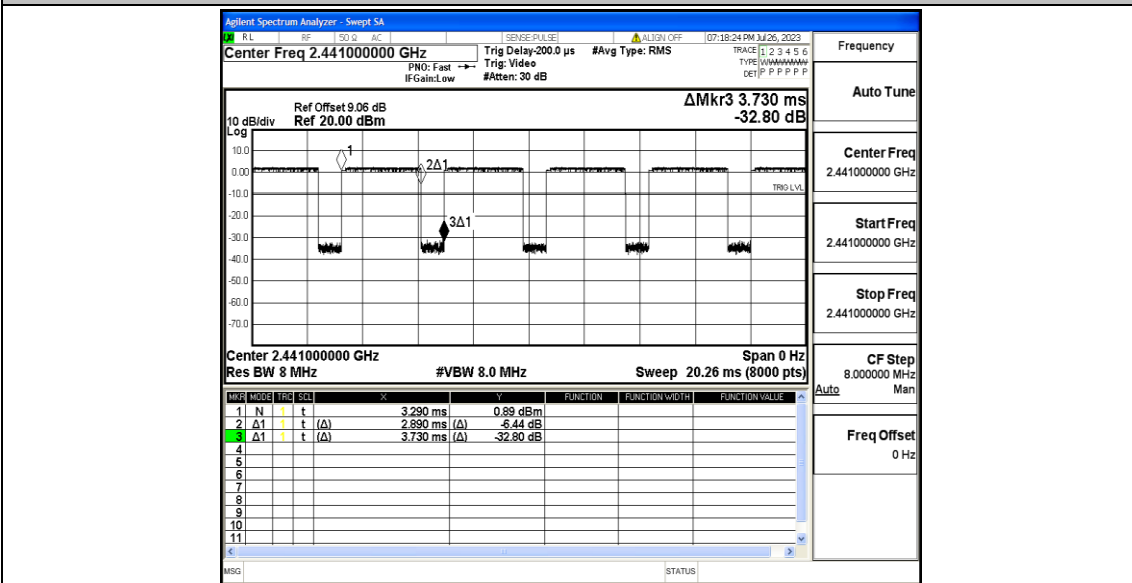
Test Graphs



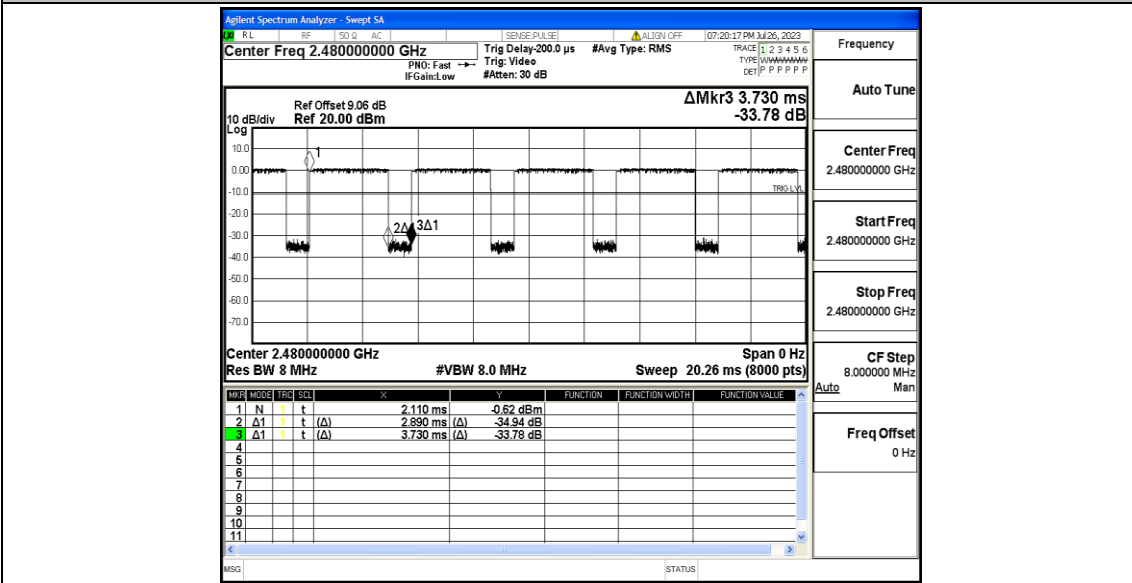
2DH5\_Ant1\_2402



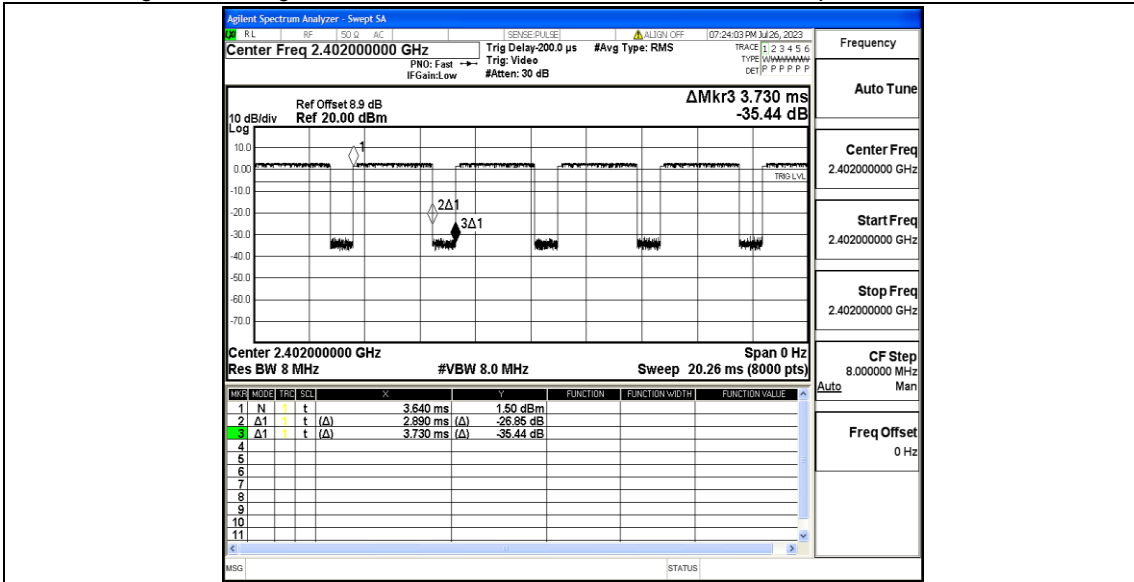
2DH5\_Ant1\_2441



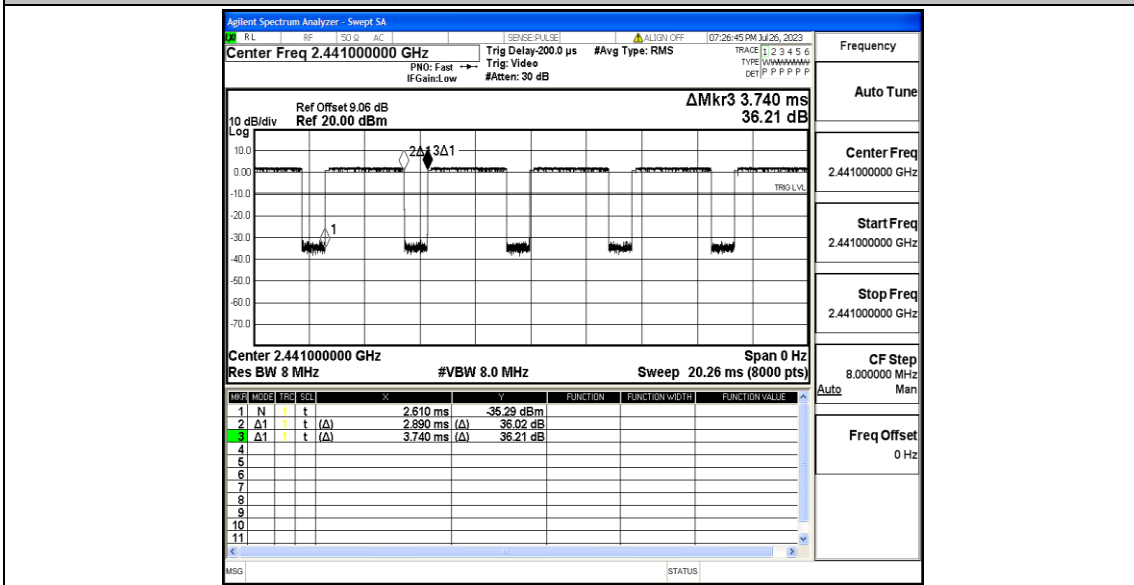
2DH5\_Ant1\_2480



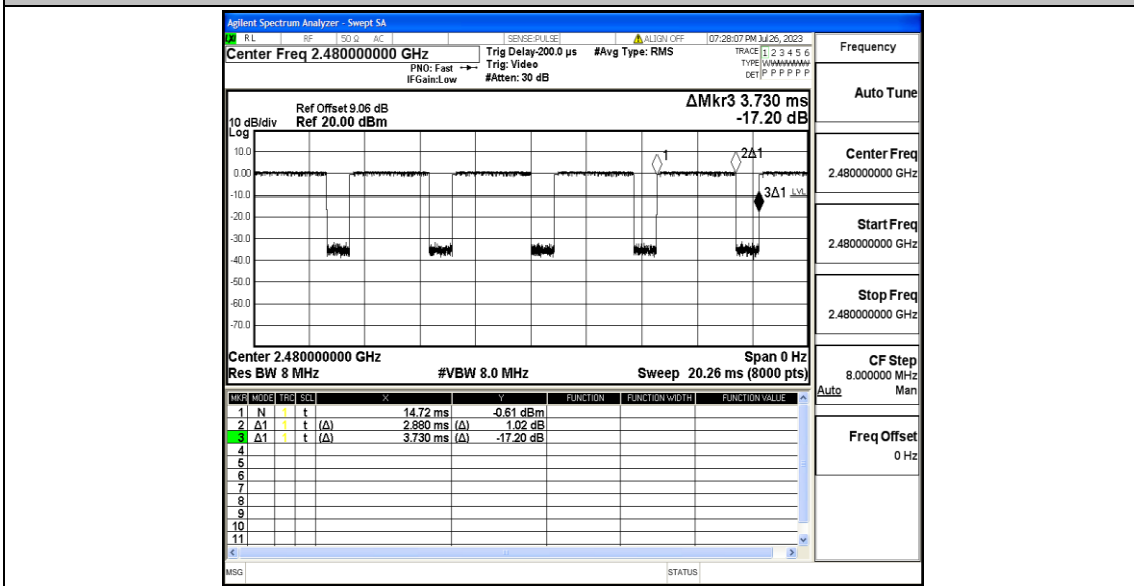
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



## Appendix J: Emissions in Restricted Bands

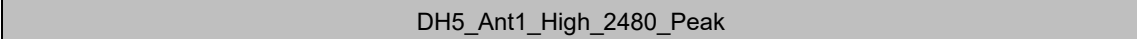
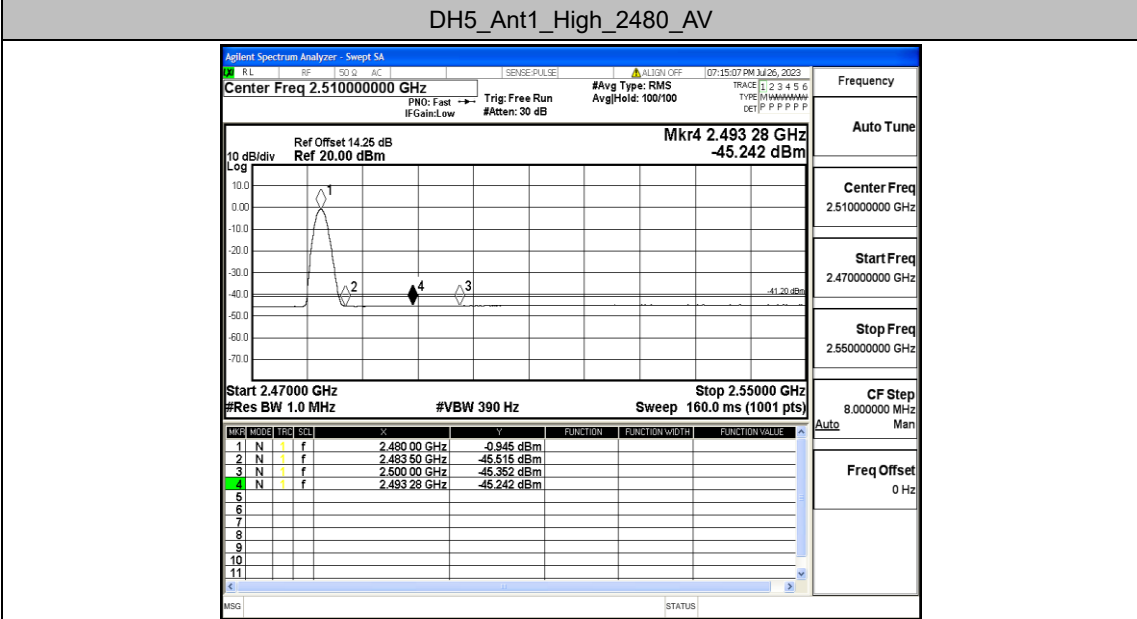
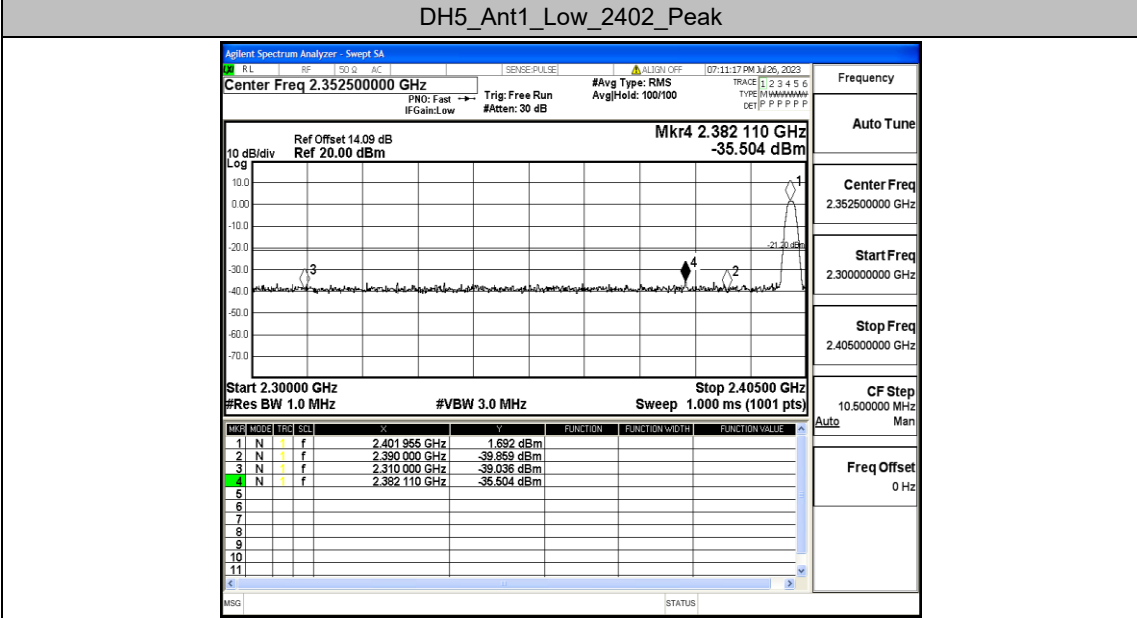
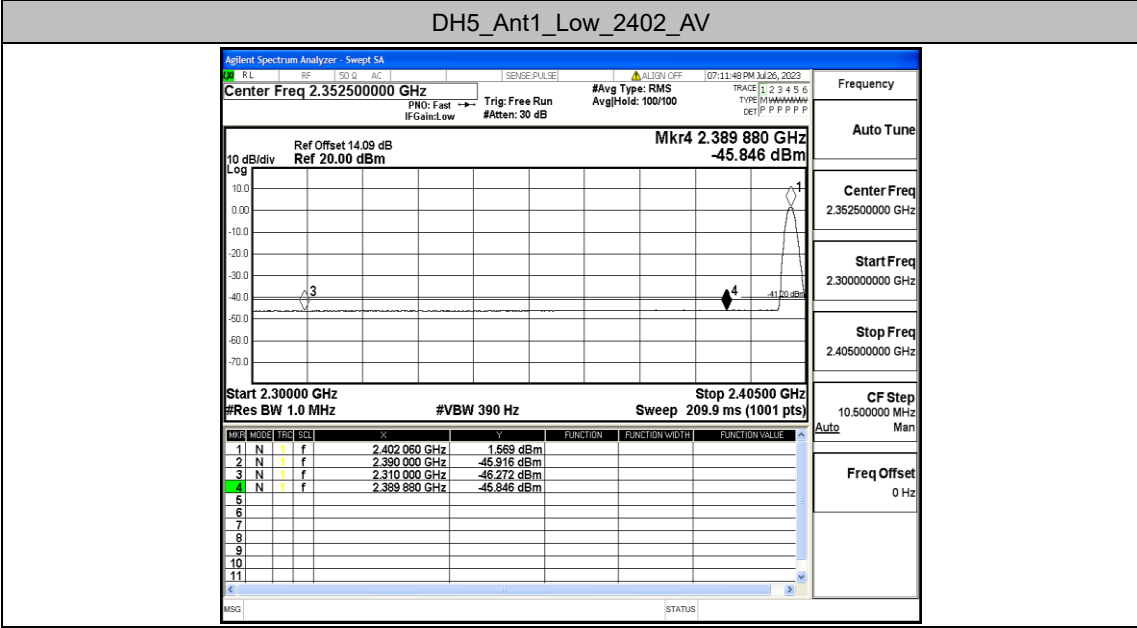
### Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-46.27	≤-41.20	PASS
				AV	2389.880	-45.85	≤-41.20	PASS
				AV	2390.000	-45.92	≤-41.20	PASS
				Peak	2310.000	-39.04	≤-21.20	PASS
				Peak	2382.110	-35.5	≤-21.20	PASS
				Peak	2390.000	-39.86	≤-21.20	PASS
		High	2480	AV	2483.500	-45.52	≤-41.20	PASS
				AV	2493.280	-45.24	≤-41.20	PASS
				AV	2500.000	-45.35	≤-41.20	PASS
				Peak	2483.500	-38.6	≤-21.20	PASS
				Peak	2488.720	-35.72	≤-21.20	PASS
				Peak	2500.000	-38.09	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-46.36	≤-41.20	PASS
				AV	2382.530	-45.83	≤-41.20	PASS
				AV	2390.000	-45.98	≤-41.20	PASS
				Peak	2310.000	-39.23	≤-21.20	PASS
				Peak	2387.885	-35.53	≤-21.20	PASS
				Peak	2390.000	-38.57	≤-21.20	PASS
		High	2480	AV	2483.500	-45.12	≤-41.20	PASS
				AV	2483.520	-45.12	≤-41.20	PASS
				AV	2500.000	-45.26	≤-41.20	PASS
				Peak	2483.500	-39.17	≤-21.20	PASS
				Peak	2494.160	-35.19	≤-21.20	PASS
				Peak	2500.000	-38.01	≤-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-46.2	≤-41.20	PASS
				AV	2389.985	-45.9	≤-41.20	PASS
				AV	2390.000	-45.9	≤-41.20	PASS
				Peak	2310.000	-39.98	≤-21.20	PASS
				Peak	2388.410	-36.19	≤-21.20	PASS
				Peak	2390.000	-39.08	≤-21.20	PASS
		High	2480	AV	2483.500	-45.12	≤-41.20	PASS
				AV	2483.520	-45.12	≤-41.20	PASS
				AV	2500.000	-45.39	≤-41.20	PASS
				Peak	2483.500	-37.89	≤-21.20	PASS
				Peak	2497.680	-35.02	≤-21.20	PASS
				Peak	2500.000	-38.77	≤-21.20	PASS

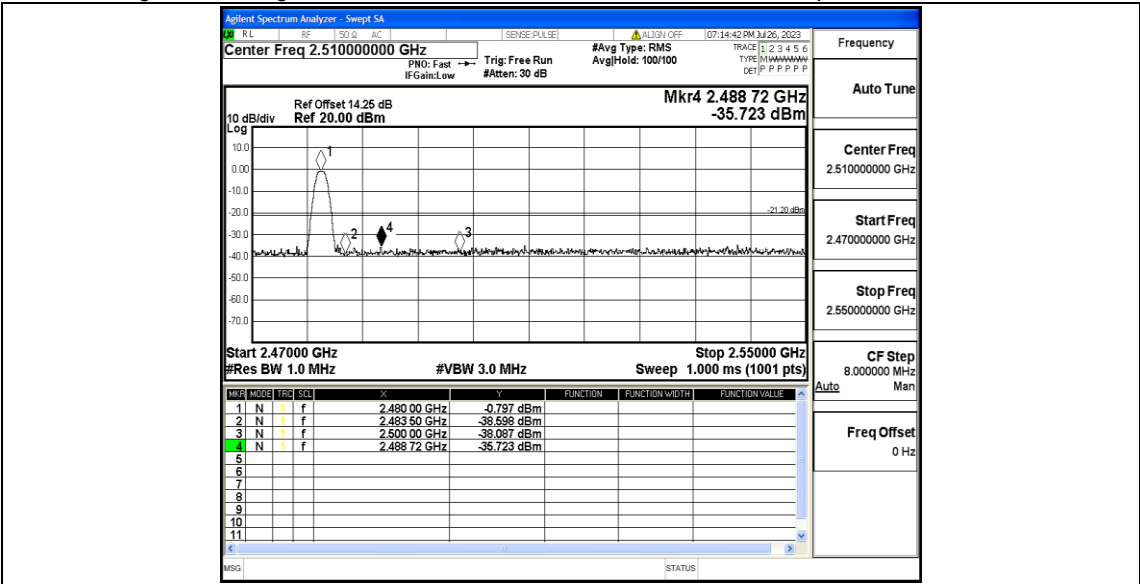
#### Note:

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.

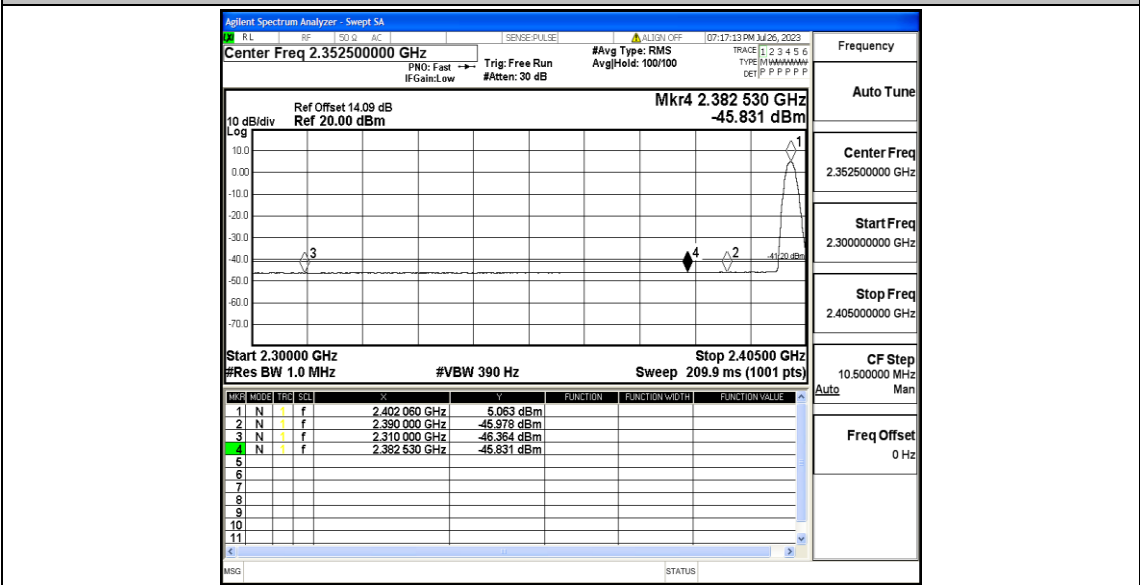
Test Graphs



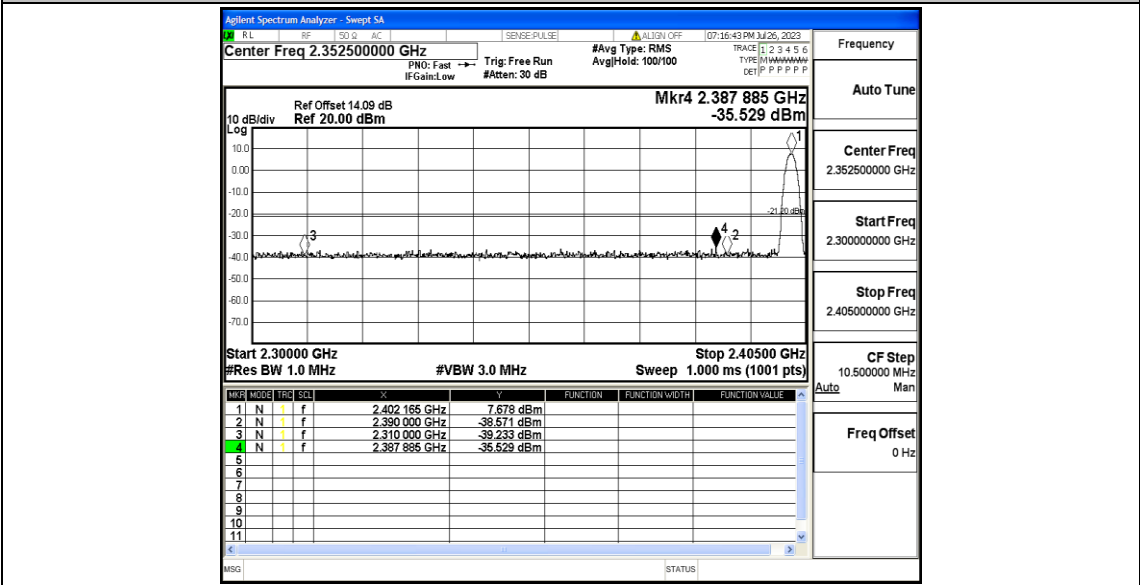




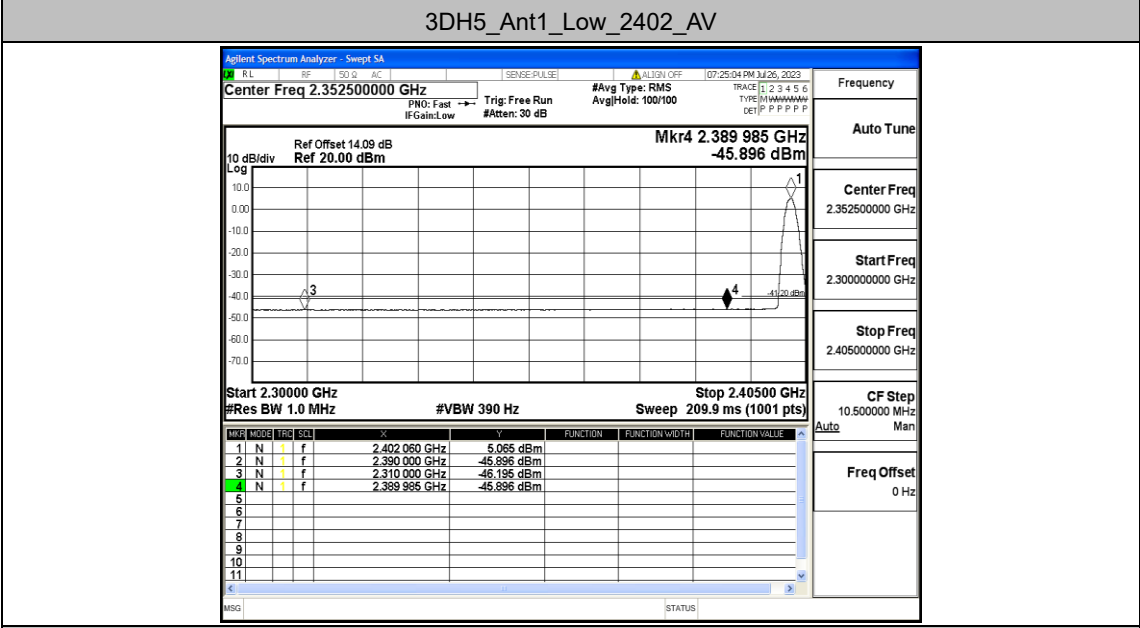
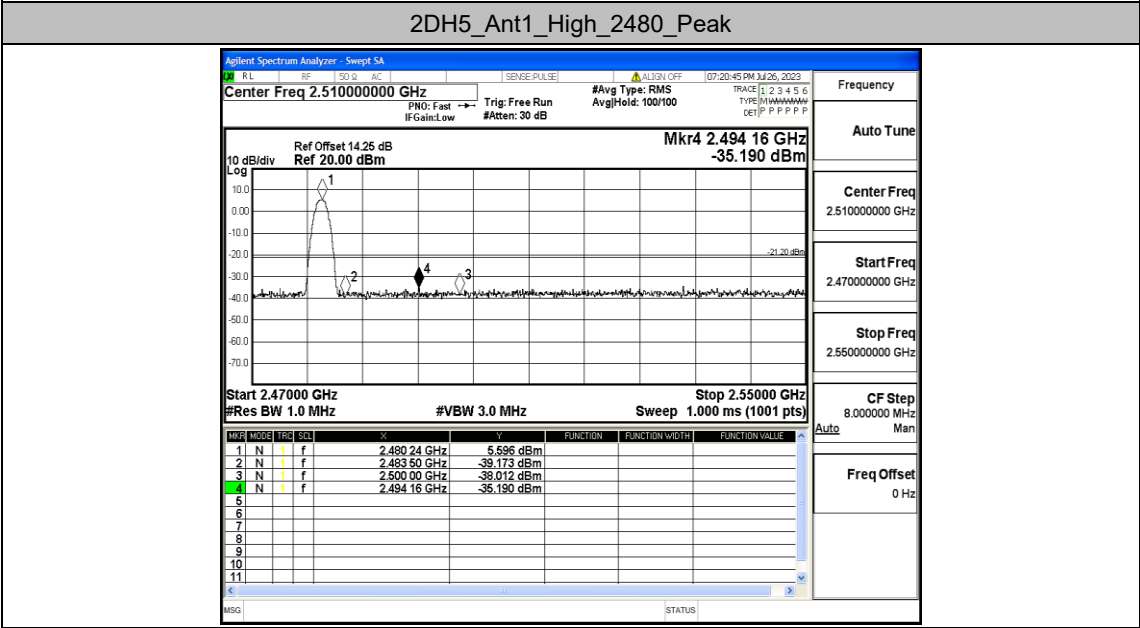
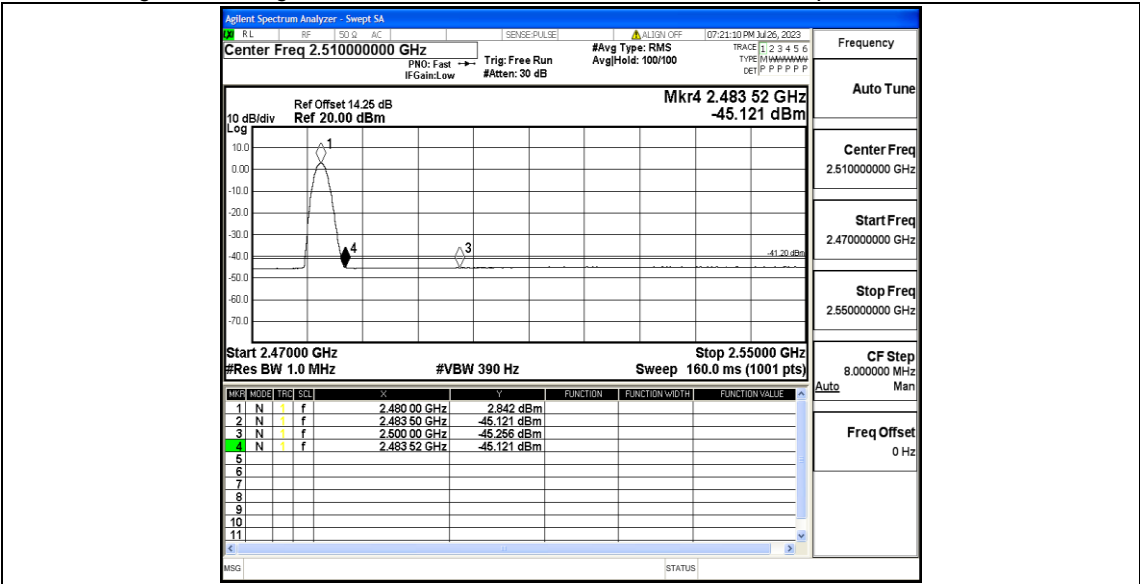
2DH5\_Ant1\_Low\_2402\_AV

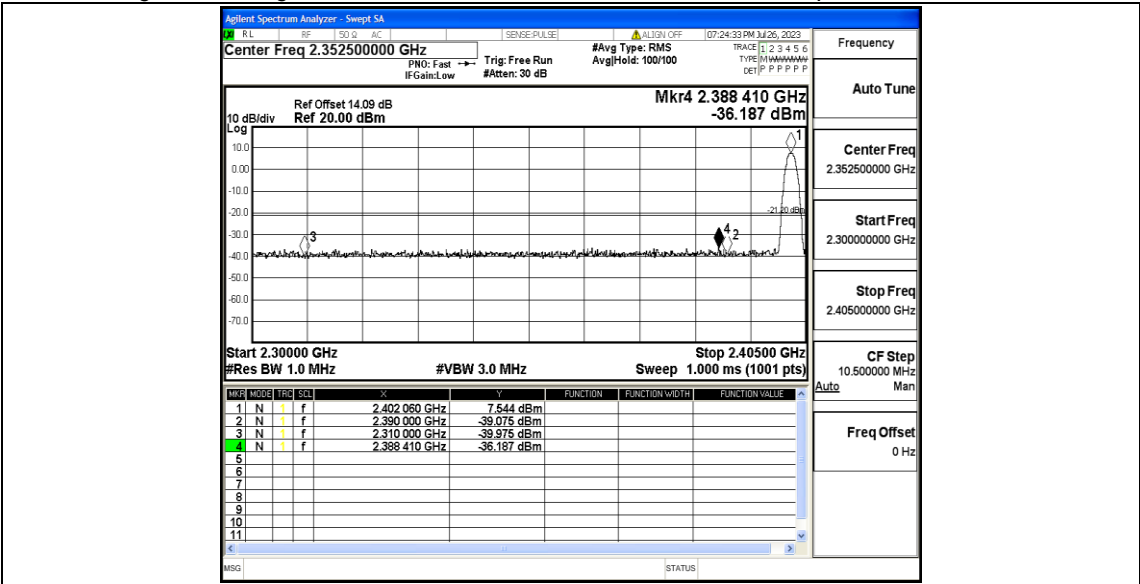


2DH5\_Ant1\_Low\_2402\_Peak

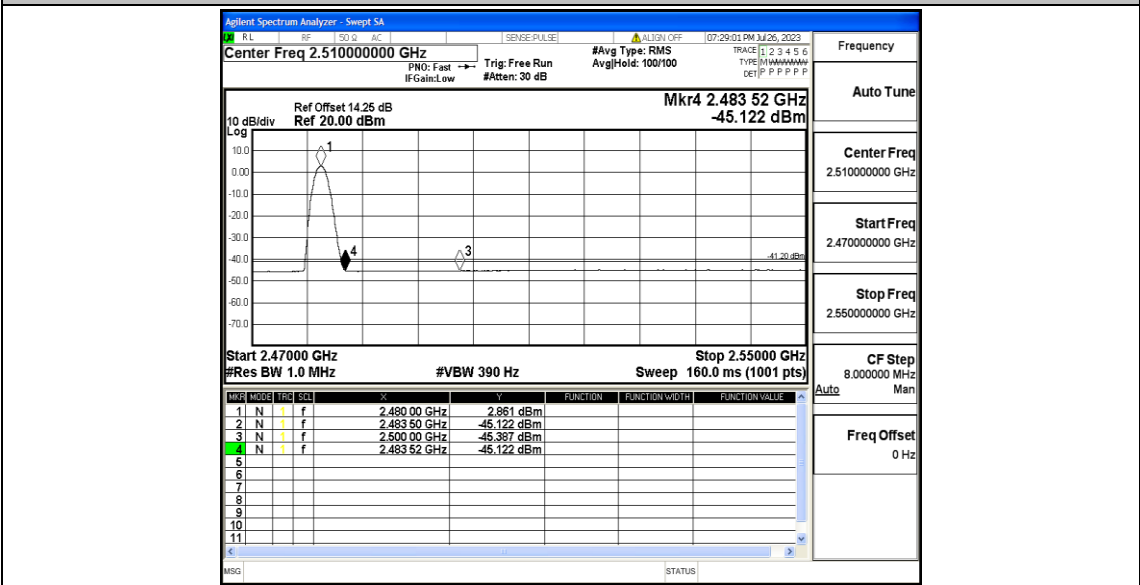


2DH5\_Ant1\_High\_2480\_AV





3DH5\_Ant1\_High\_2480\_AV



3DH5\_Ant1\_High\_2480\_Peak

