

<b>Case No. :</b> <u>GTS20231226020-1-9</u>
<b>Ambient Condition:</b> <u>24 °C, 49 %RH</u>
<b>According Standard:</b> <u>■Part15C</u>
<b>Test Date:</b> <u>2024.1.16</u> <b>Test Engineer:</b> <u>Evan ouyang</u>

## Appendix A.1: 20dB Emission Bandwidth

### Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	1.014	2401.484	2402.498	---	---
		2441	1.035	2440.478	2441.513	---	---
		2480	1.047	2479.469	2480.516	---	---
2DH1	Ant1	2402	1.296	2401.355	2402.651	---	---
		2441	1.236	2440.367	2441.603	---	---
		2480	1.287	2479.331	2480.618	---	---

## Test Graphs





2DH1\_Ant1\_2402



2DH1\_Ant1\_2441



2DH1\_Ant1\_2480



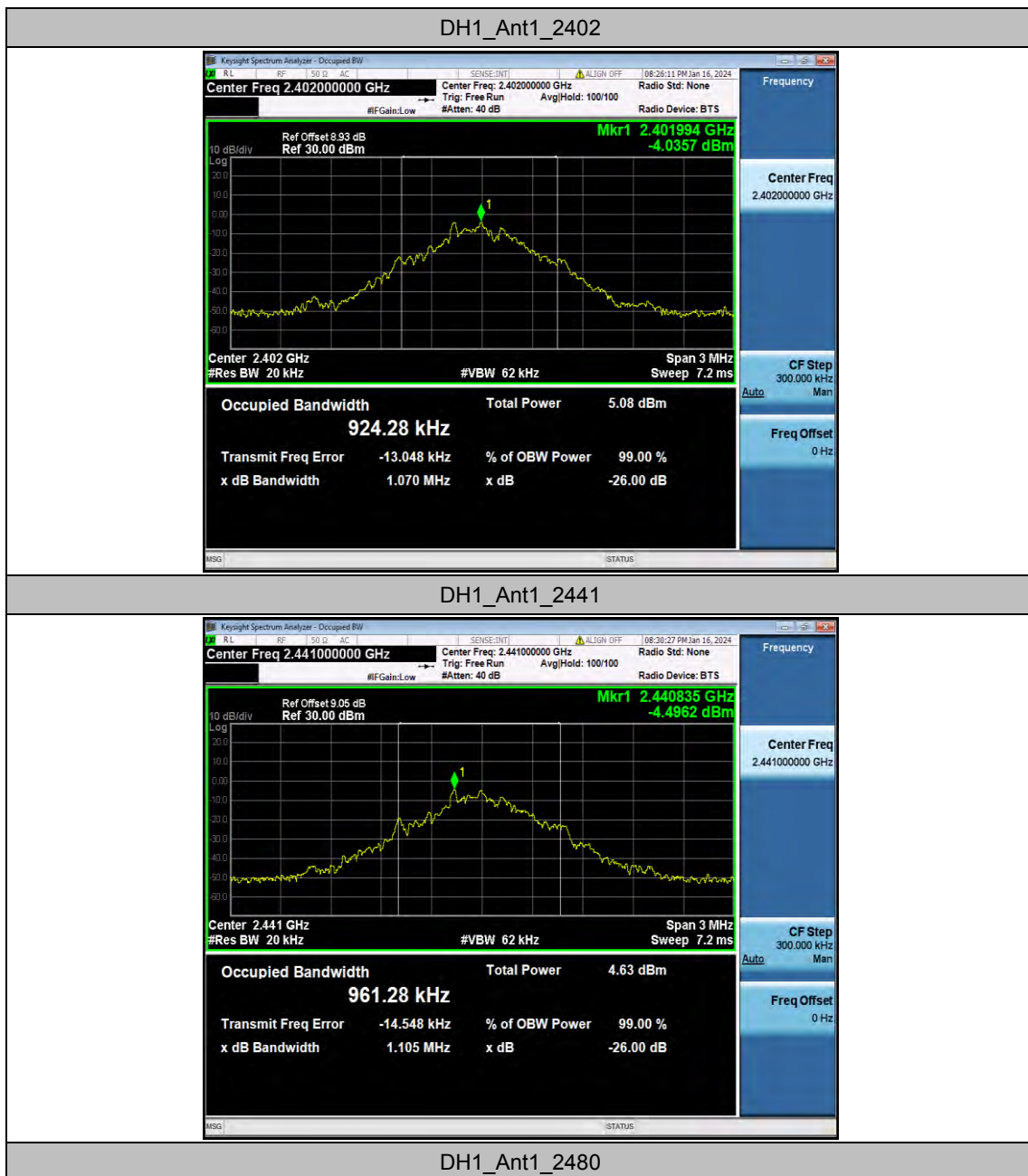
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## Appendix A.2: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.92428	2401.5248	2402.4491	---	---
		2441	0.96128	2440.5048	2441.4661	---	---
		2480	0.99282	2479.4986	2480.4915	---	---
2DH1	Ant1	2402	1.1935	2401.4005	2402.5940	---	---
		2441	1.2124	2440.3919	2441.6043	---	---
		2480	1.2098	2479.3790	2480.5888	---	---

## Test Graphs





2DH1\_Ant1\_2402



2DH1\_Ant1\_2441







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## Appendix A.3: Maximum conducted output power

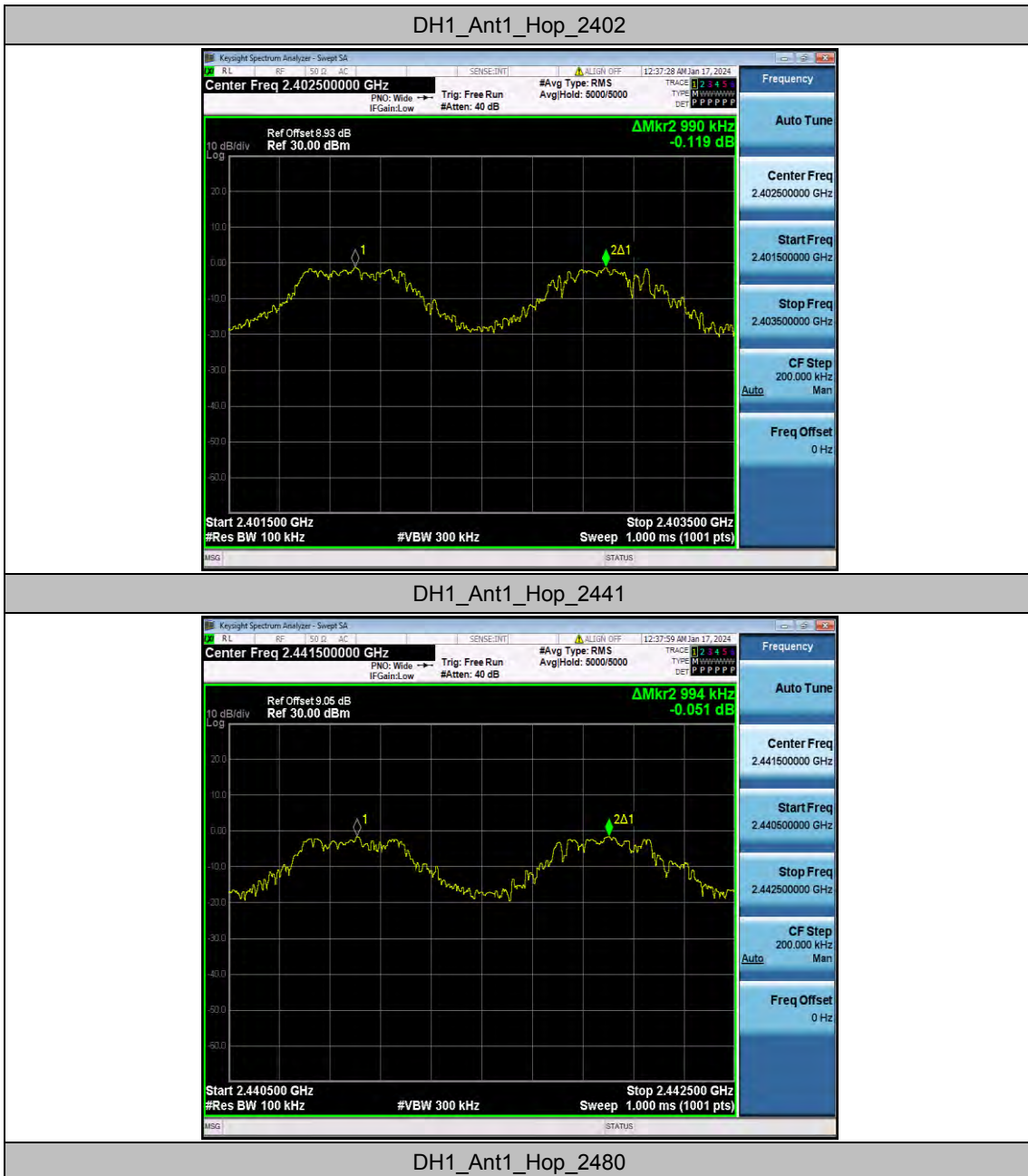
### Test Result Peak

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	-0.68	≤20.97	PASS
		2441	-1.09	≤20.97	PASS
		2480	-0.81	≤20.97	PASS
2DH1	Ant1	2402	-0.32	≤20.97	PASS
		2441	-0.59	≤20.97	PASS
		2480	-0.32	≤20.97	PASS

**Appendix A.4: Carrier frequency separation****Test Result**

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.99	≥0.698	PASS
		Hop_2441	0.994	≥0.698	PASS
		Hop_2480	0.994	≥0.698	PASS
2DH1	Ant1	Hop_2402	1.166	≥0.864	PASS
		Hop_2441	1.014	≥0.864	PASS
		Hop_2480	0.998	≥0.864	PASS

## Test Graphs





2DH1\_Ant1\_Hop\_2402



2DH1\_Ant1\_Hop\_2441



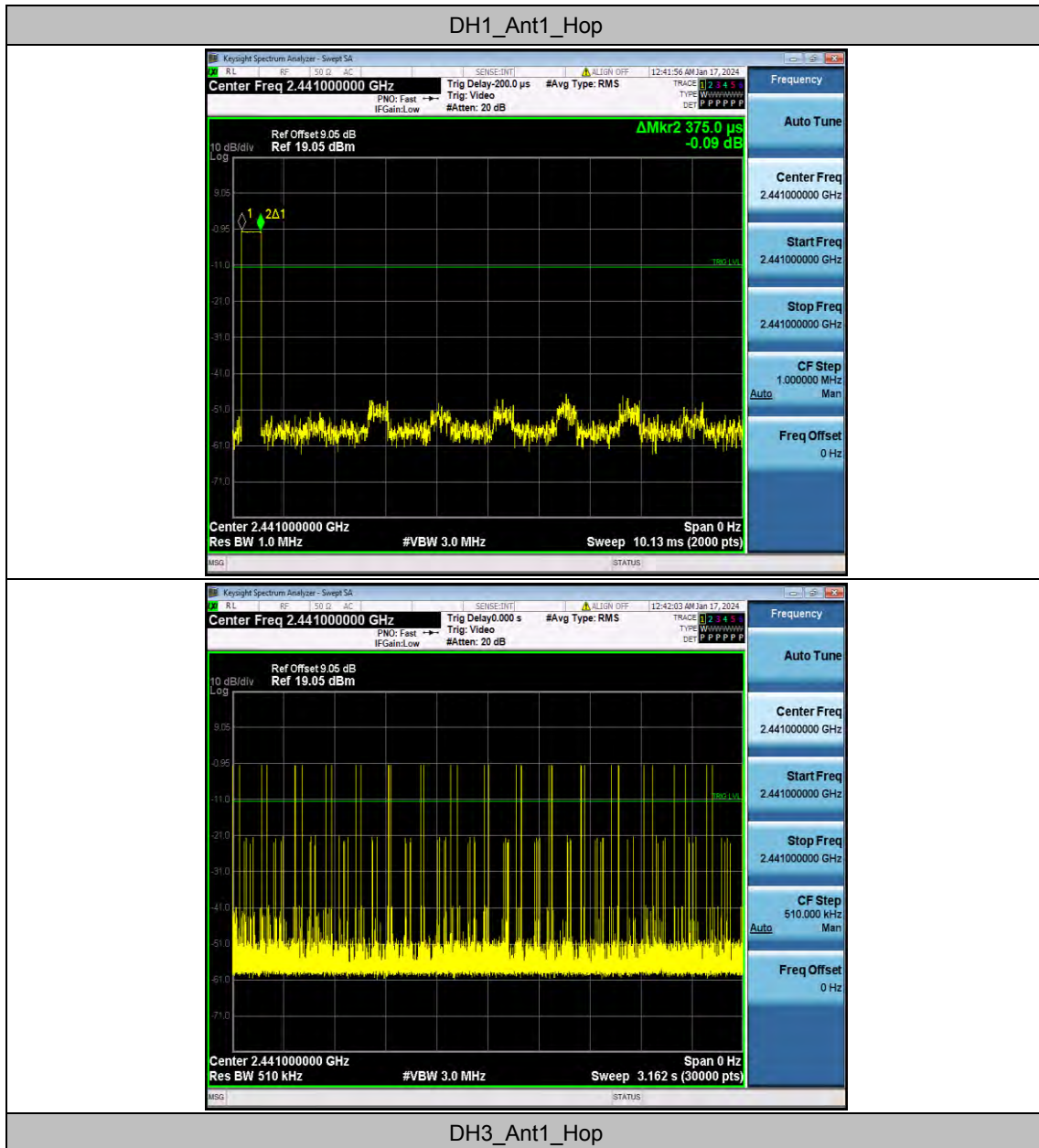


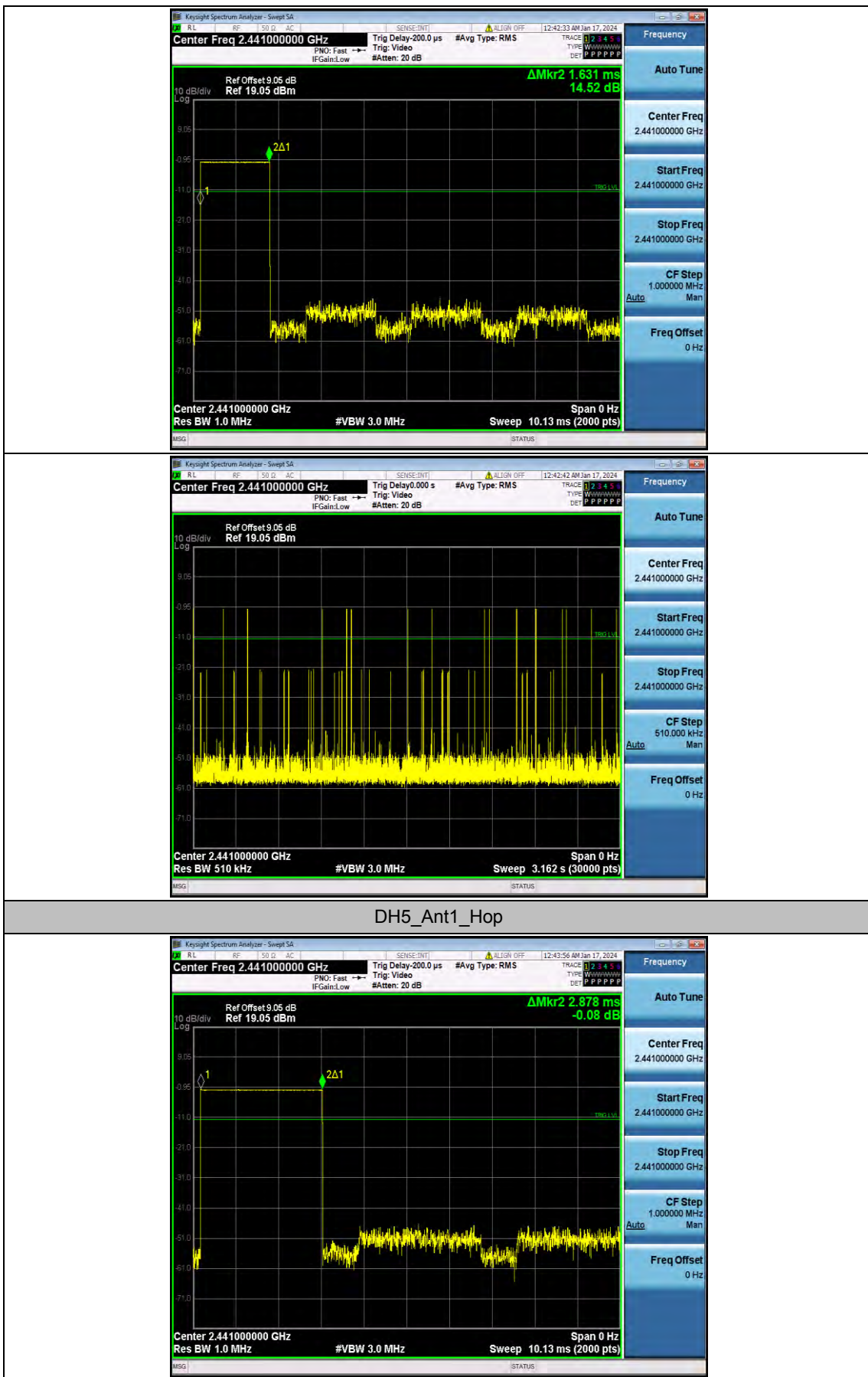
## Appendix A.5: Time of occupancy

### Test Result

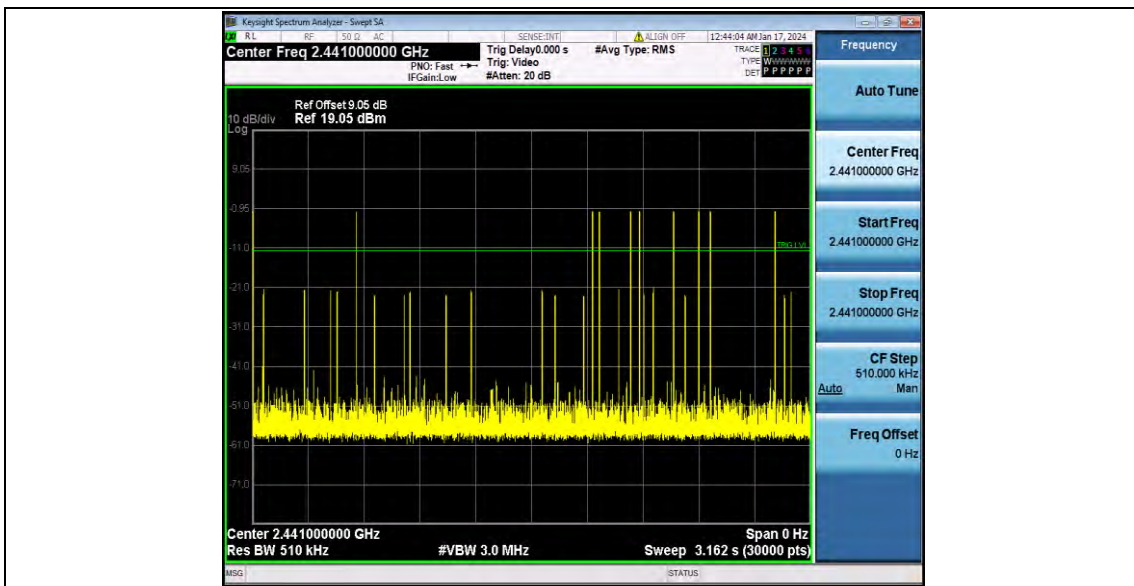
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.375	330	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.631	160	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.878	100	0.288	≤0.4	PASS
2DH1	Ant1	Hop	0.380	330	0.125	≤0.4	PASS
2DH3	Ant1	Hop	1.637	170	0.278	≤0.4	PASS
2DH5	Ant1	Hop	2.883	100	0.288	≤0.4	PASS

## Test Graphs

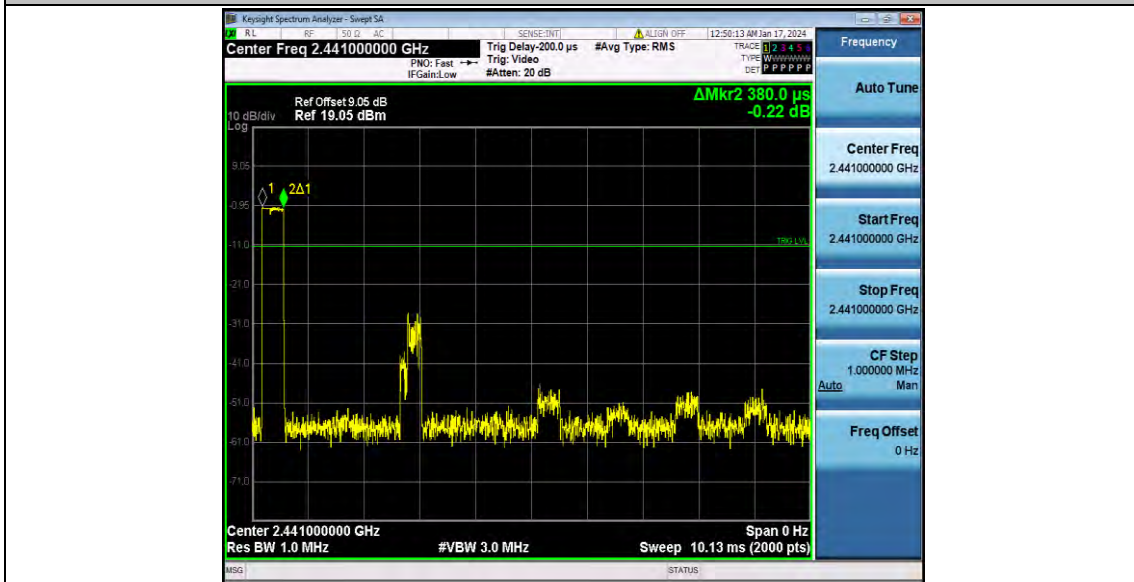




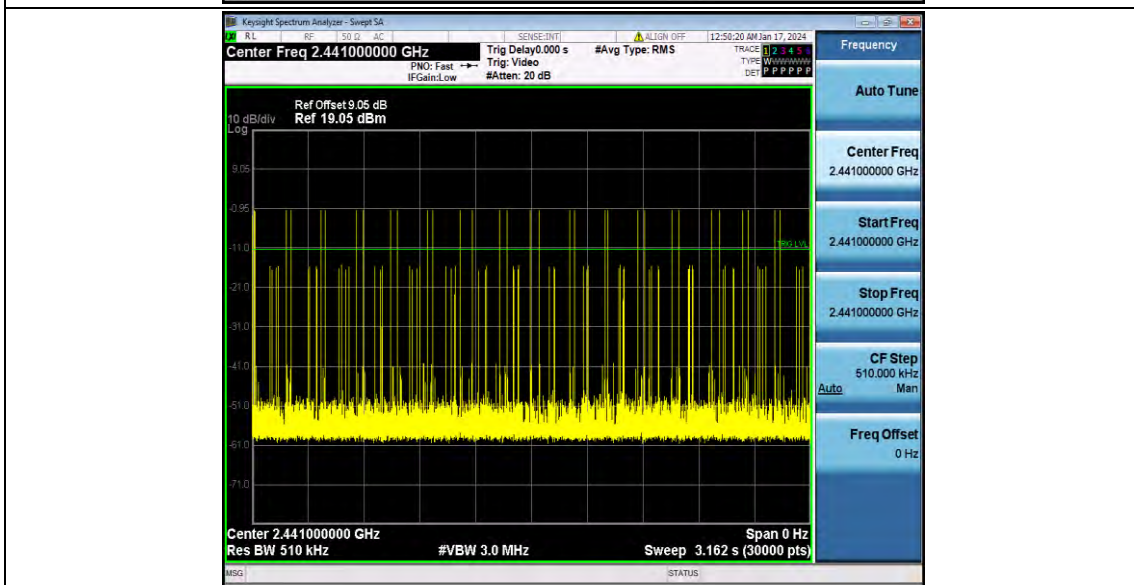


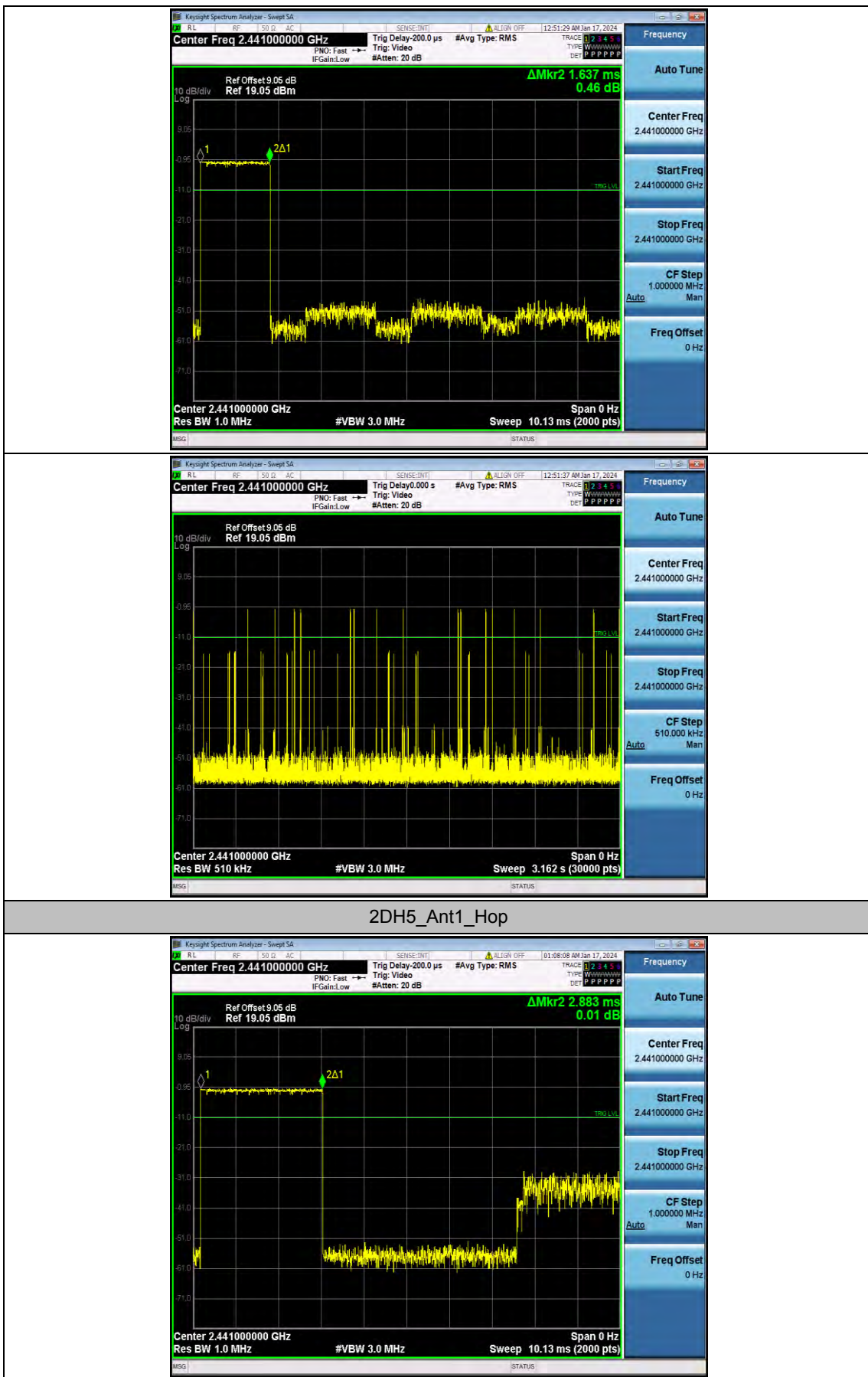


2DH1\_Ant1\_Hop

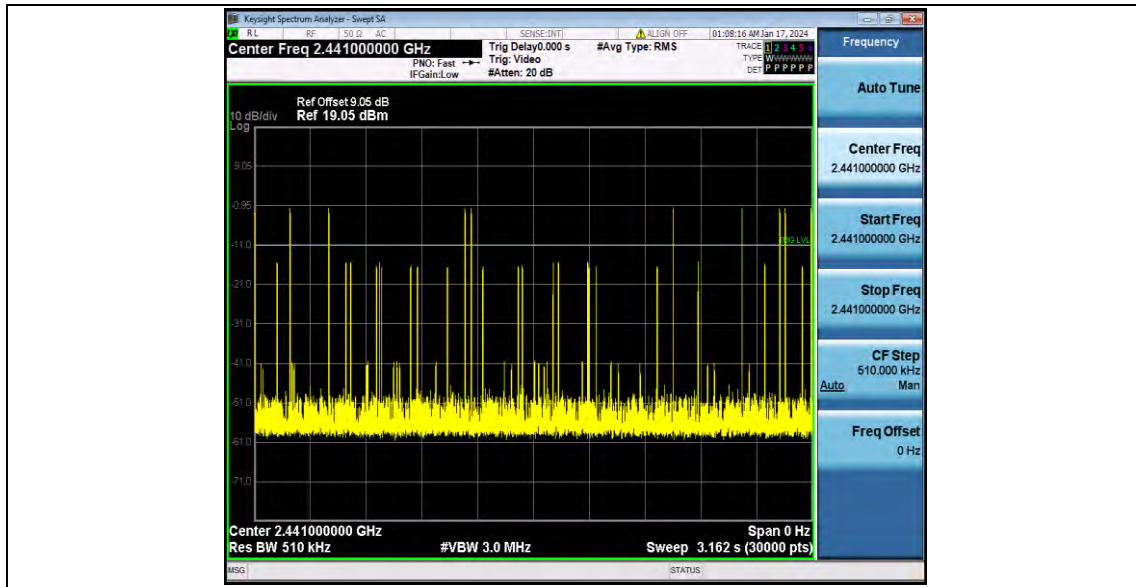


2DH3\_Ant1\_Hop





2DH5\_Ant1\_Hop

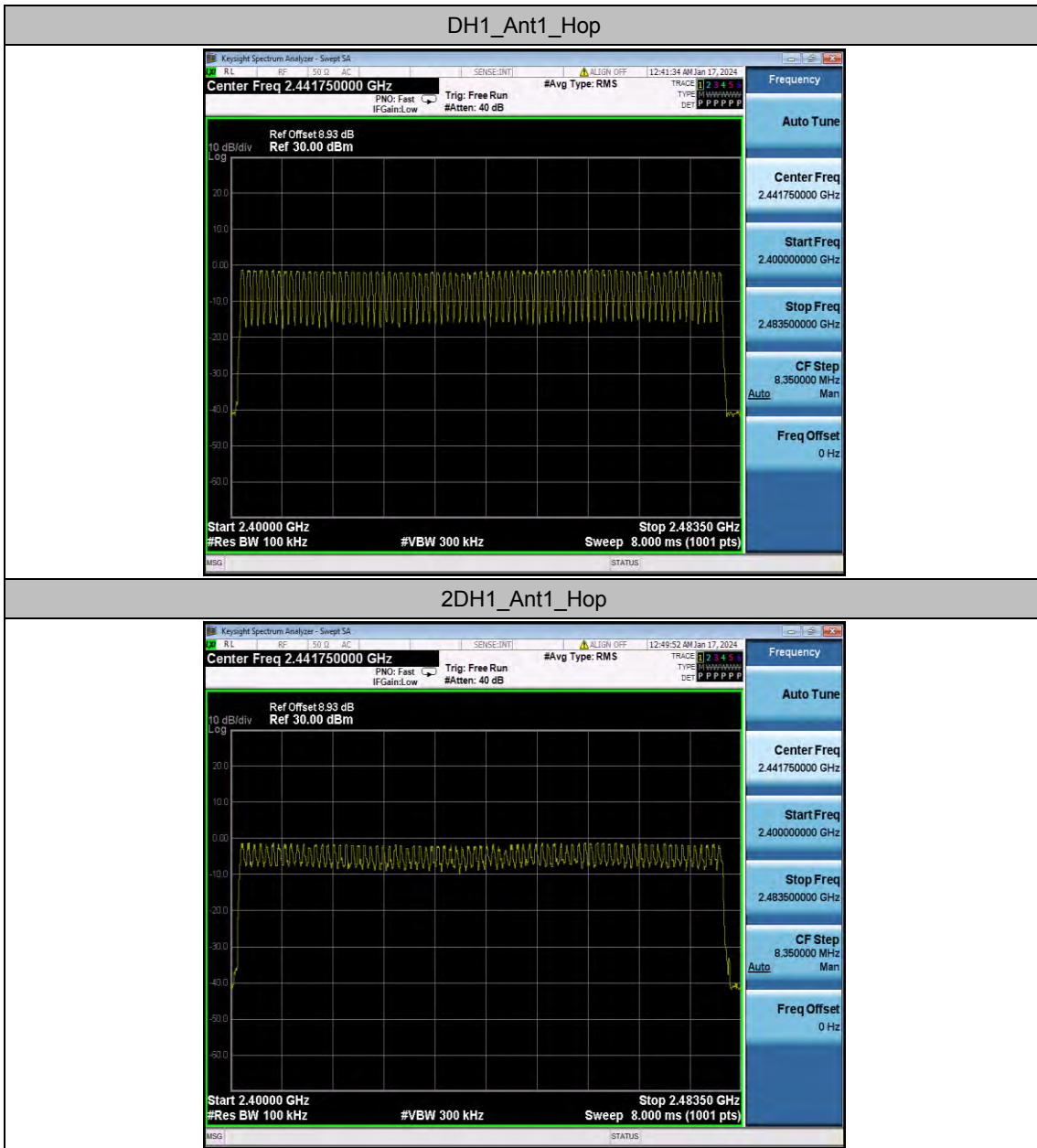


## Appendix A.6: Number of hopping channels

### Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS

## Test Graphs



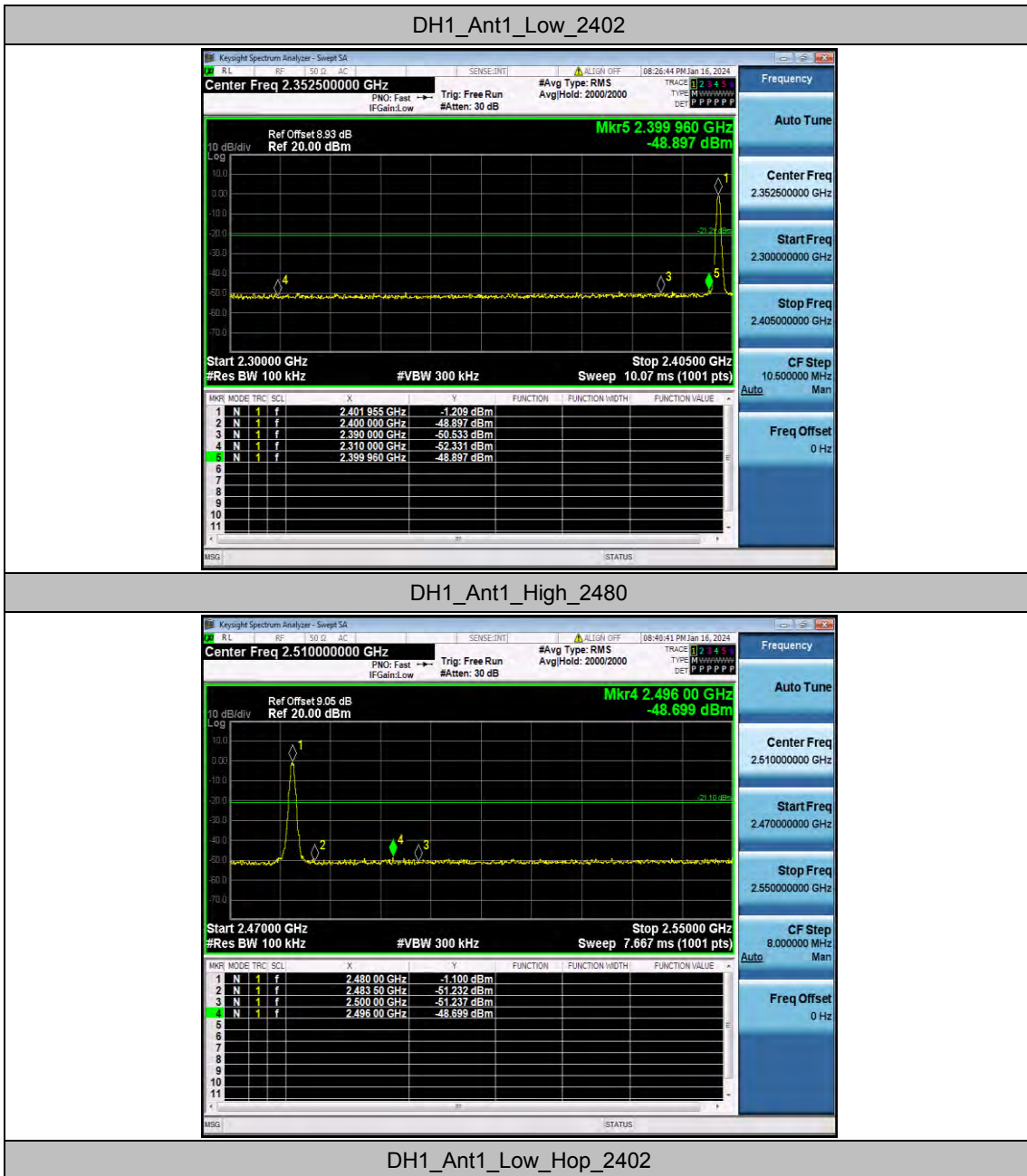
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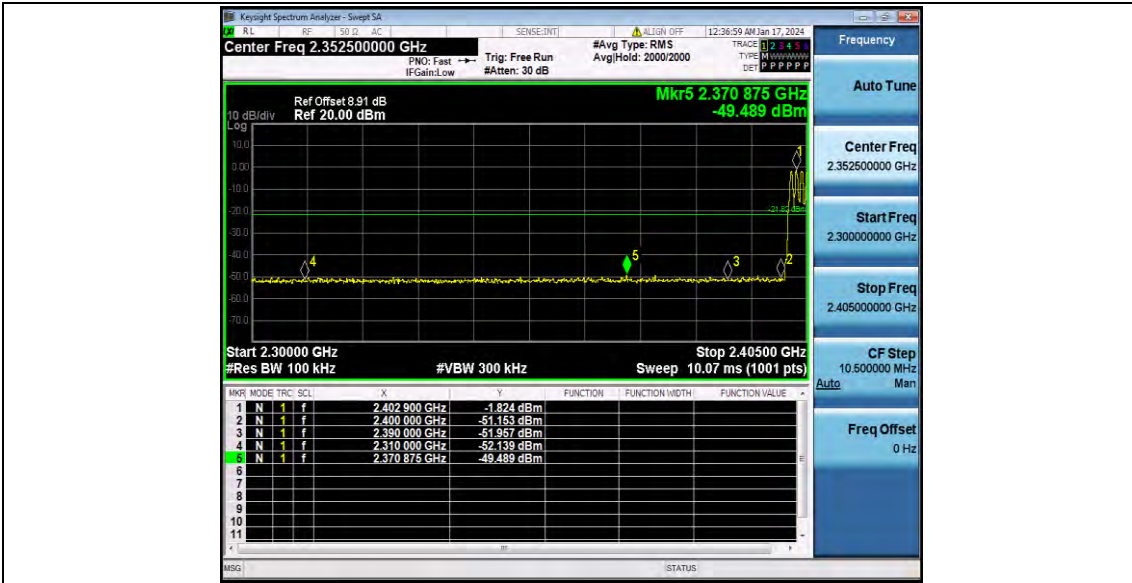
## Appendix A.7: Band edge measurements

### Test Result

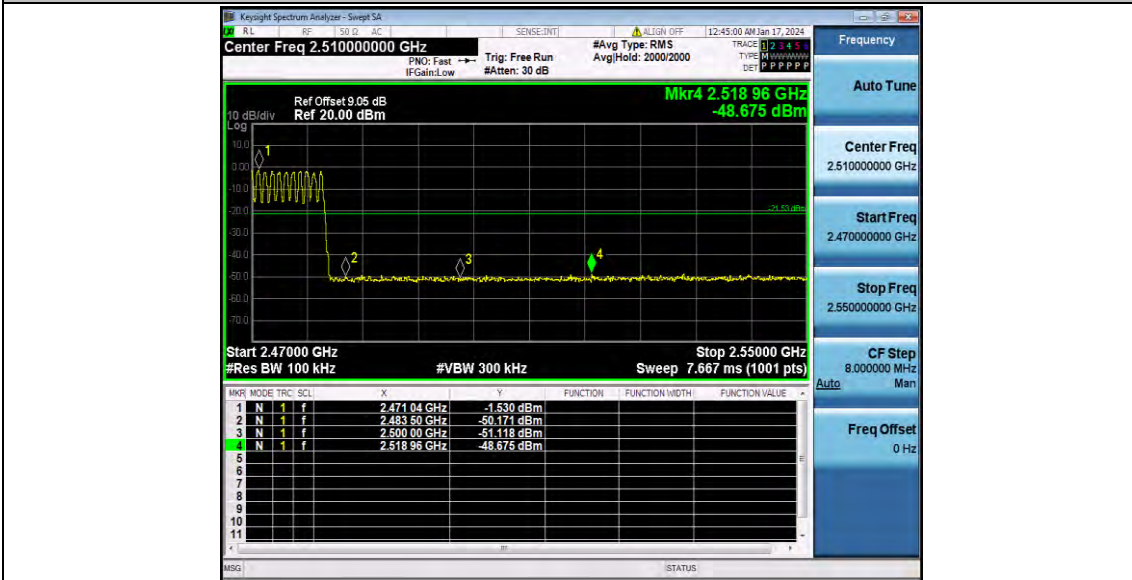
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	-1.21	-48.9	≤-21.21	PASS
		High	2480	-1.10	-48.7	≤-21.1	PASS
		Low	Hop_2402	-1.82	-49.49	≤-21.82	PASS
		High	Hop_2480	-1.53	-48.68	≤-21.53	PASS
2DH1	Ant1	Low	2402	-1.22	-41.54	≤-21.22	PASS
		High	2480	-1.09	-49.2	≤-21.09	PASS
		Low	Hop_2402	-1.68	-48.79	≤-21.68	PASS
		High	Hop_2480	-2.33	-48.8	≤-22.33	PASS

## Test Graphs

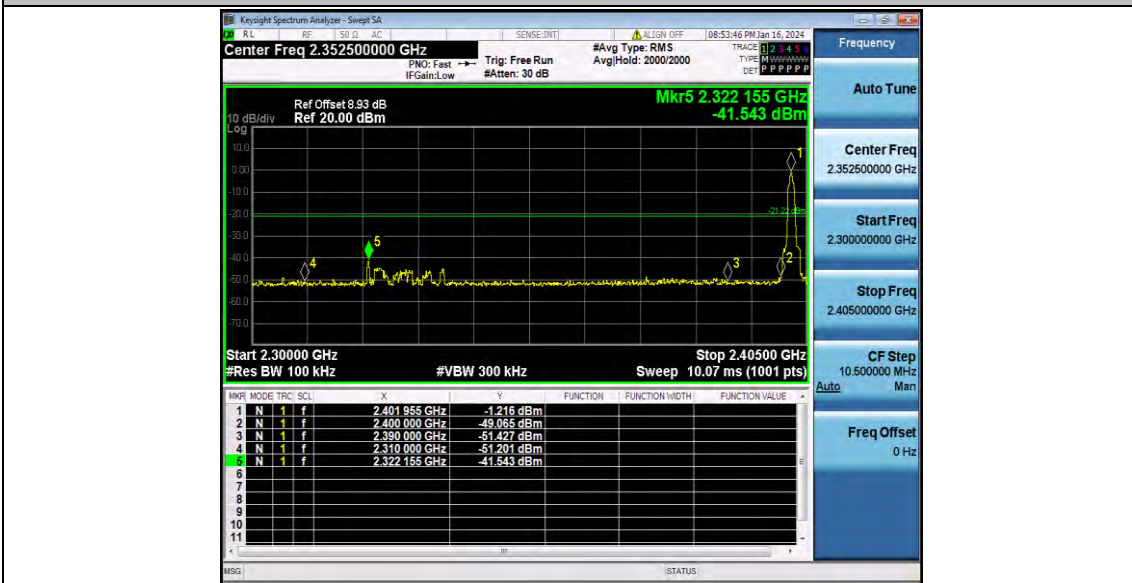




DH1\_Ant1\_High\_Hop\_2480

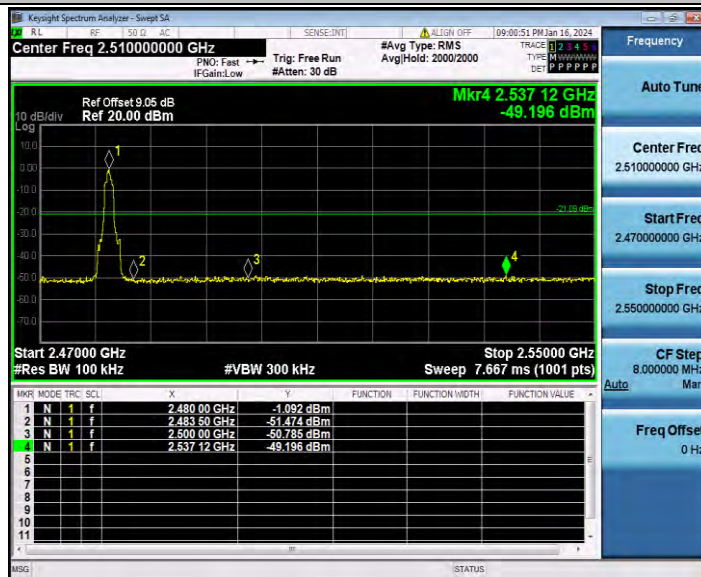


2DH1\_Ant1\_Low\_2402

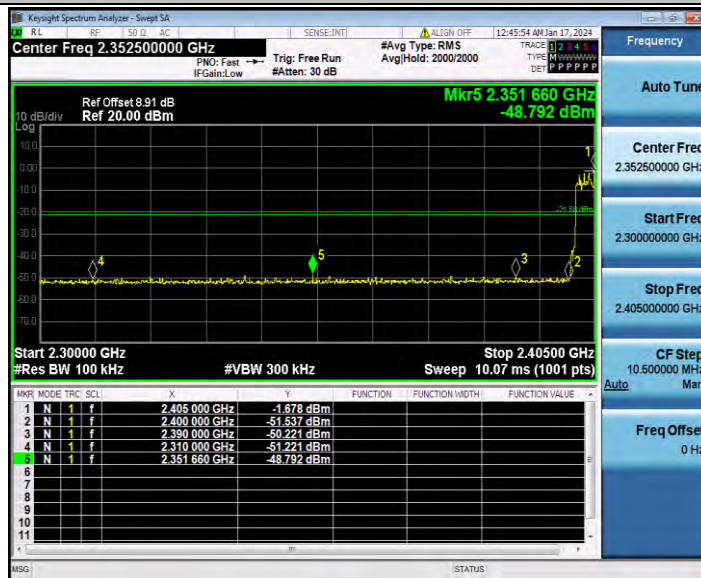




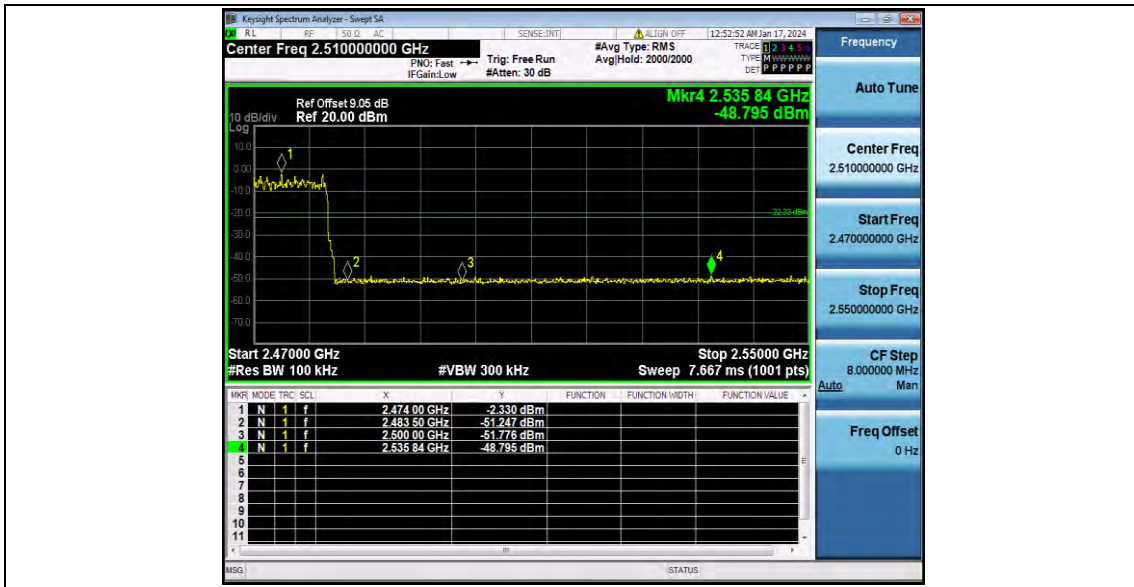
2DH1\_Ant1\_High\_2480



2DH1\_Ant1\_Low\_Hop\_2402



2DH1\_Ant1\_High\_Hop\_2480

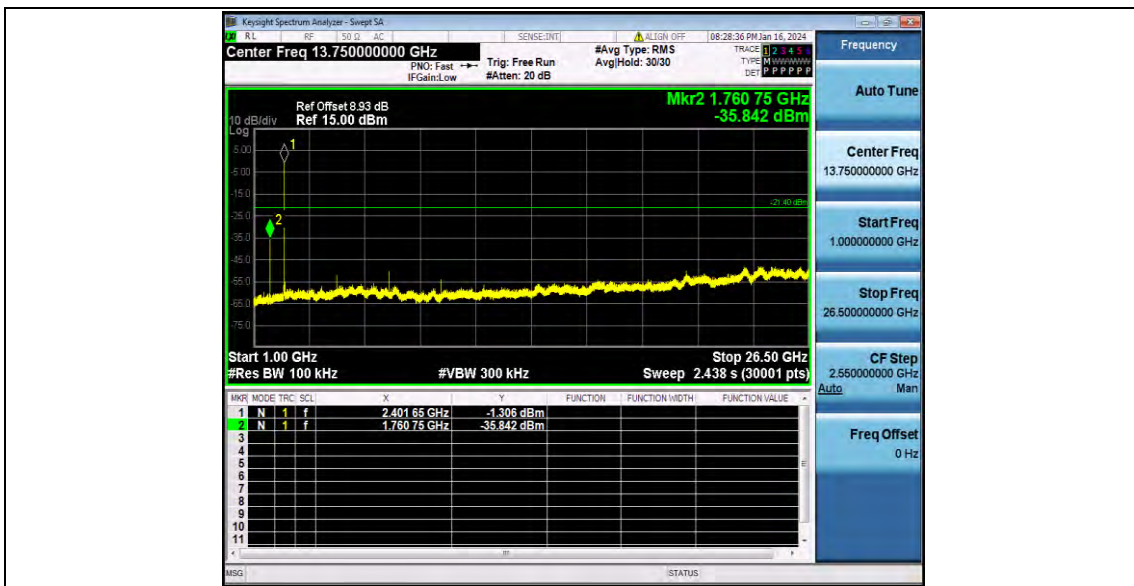


## Appendix A.8: Conducted Spurious Emission

### Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	-1.40	-1.40	---	PASS
			30~1000	-1.40	-61.02	≤-21.4	PASS
			1000~26500	-1.40	-35.84	≤-21.4	PASS
		2441	Reference	-2.01	-2.01	---	PASS
			30~1000	-2.01	-60.91	≤-22.01	PASS
			1000~26500	-2.01	-47.59	≤-22.01	PASS
		2480	Reference	-1.22	-1.22	---	PASS
			30~1000	-1.22	-60.34	≤-21.22	PASS
			1000~26500	-1.22	-45.95	≤-21.22	PASS
2DH1	Ant1	2402	Reference	-1.35	-1.35	---	PASS
			30~1000	-1.35	-41.57	≤-21.35	PASS
			1000~26500	-1.35	-47.94	≤-21.35	PASS
		2441	Reference	-1.52	-1.52	---	PASS
			30~1000	-1.52	-60.89	≤-21.52	PASS
			1000~26500	-1.52	-48	≤-21.52	PASS
		2480	Reference	-1.21	-1.21	---	PASS
			30~1000	-1.21	-60.01	≤-21.21	PASS
			1000~26500	-1.21	-37.94	≤-21.21	PASS

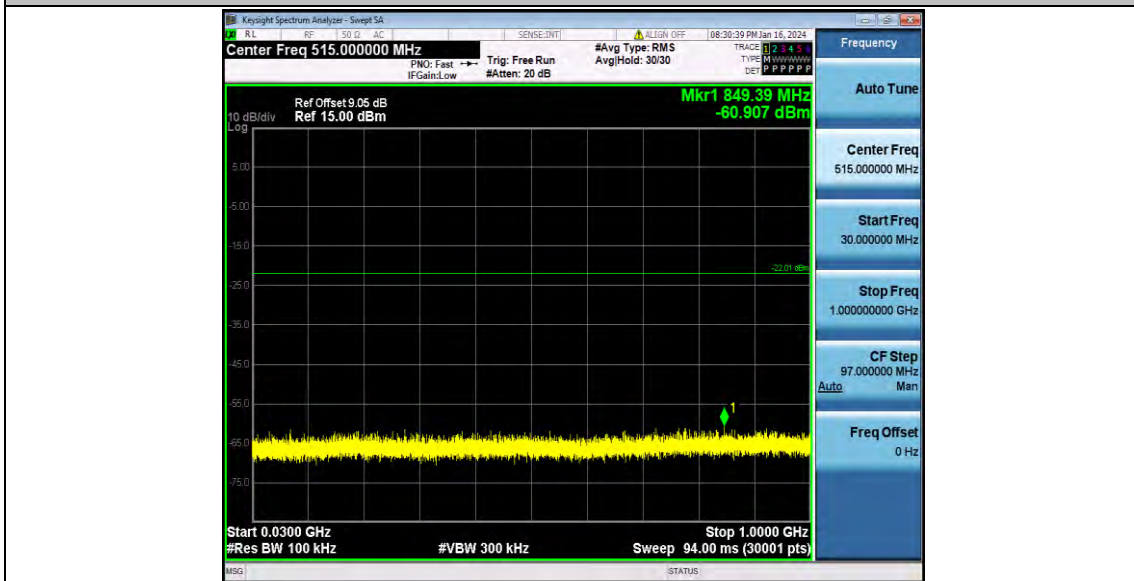




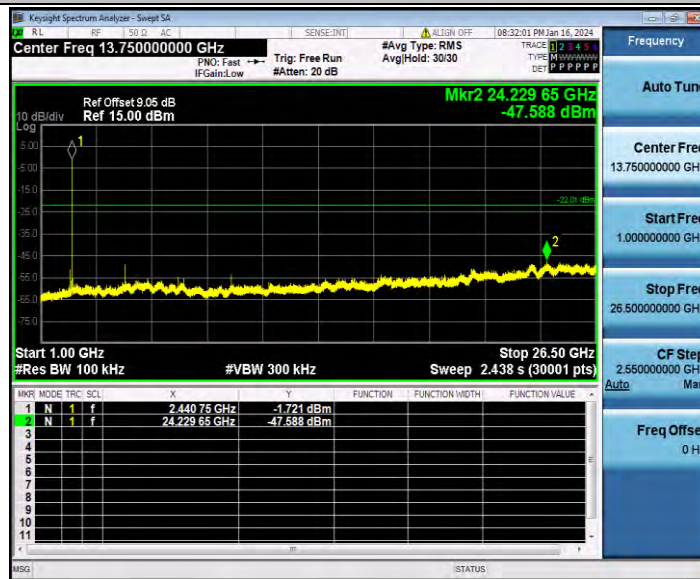
DH1\_Ant1\_2441\_0~Reference



DH1\_Ant1\_2441\_30~1000



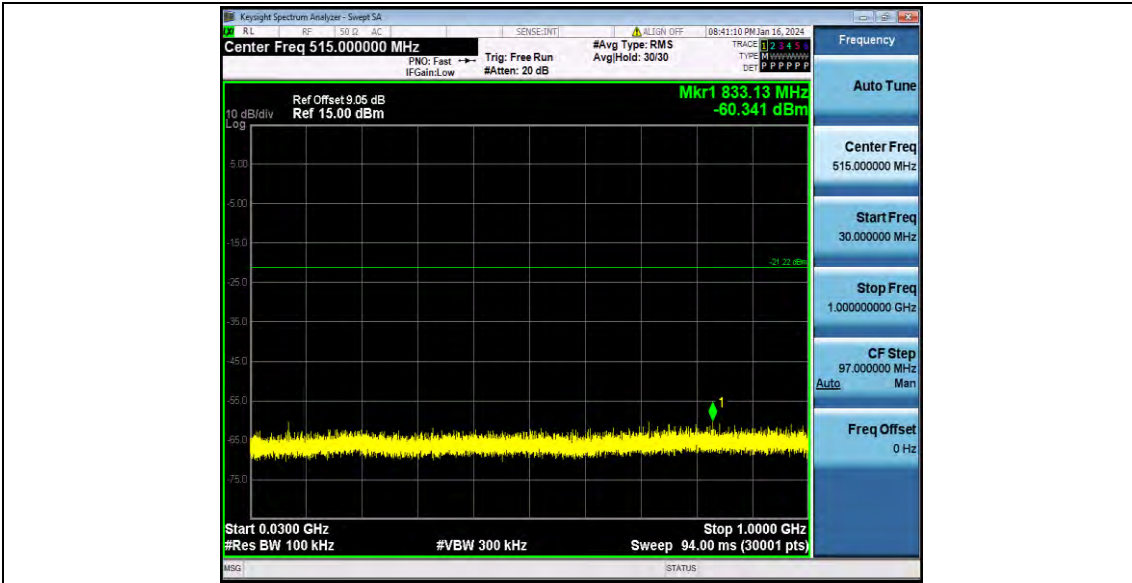
DH1\_Ant1\_2441\_1000~26500



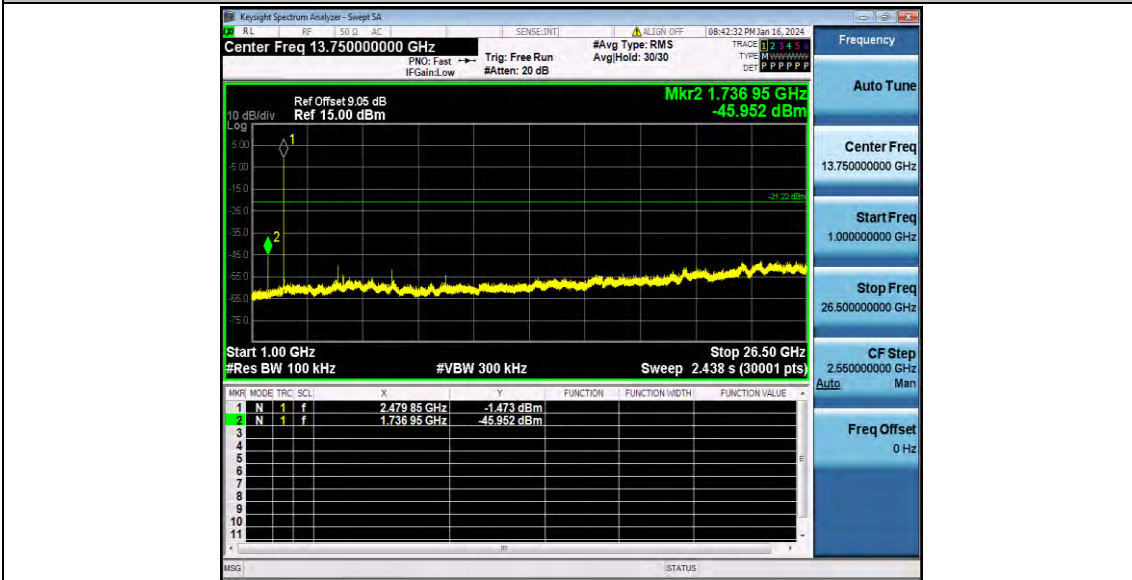
DH1\_Ant1\_2480\_0~Reference



DH1\_Ant1\_2480\_30~1000



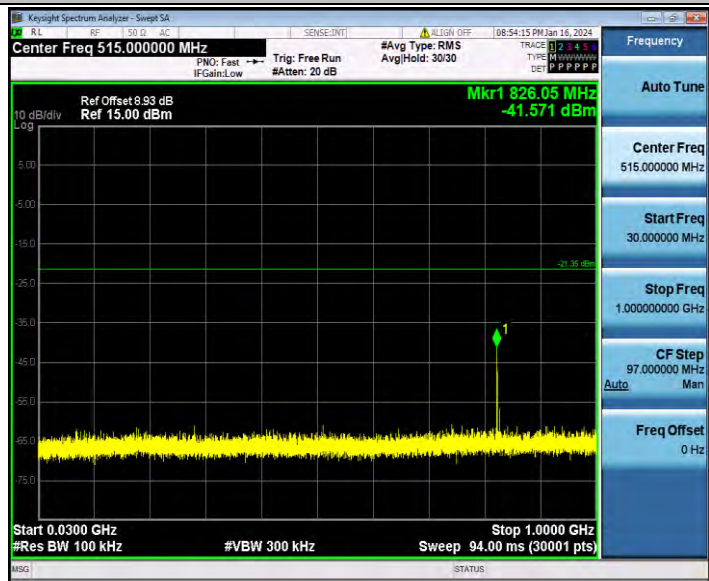
DH1\_Ant1\_2480\_1000~26500



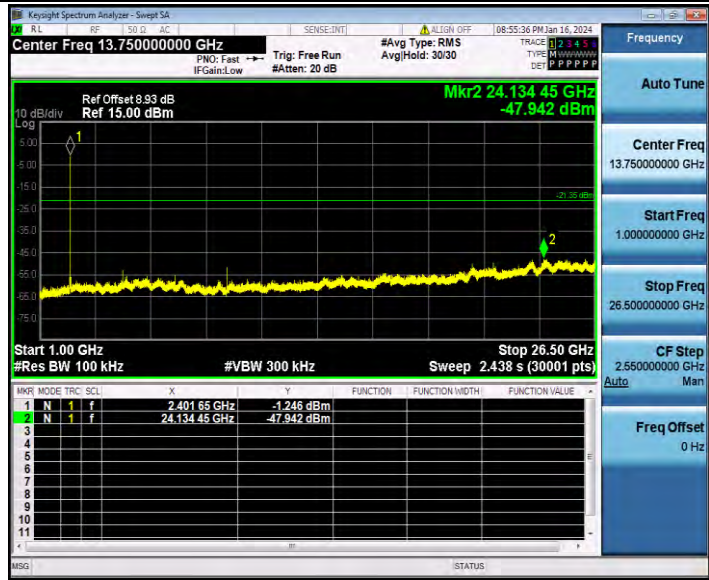
2DH1\_Ant1\_2402\_0~Reference



2DH1\_Ant1\_2402\_30~1000



2DH1\_Ant1\_2402\_1000~26500

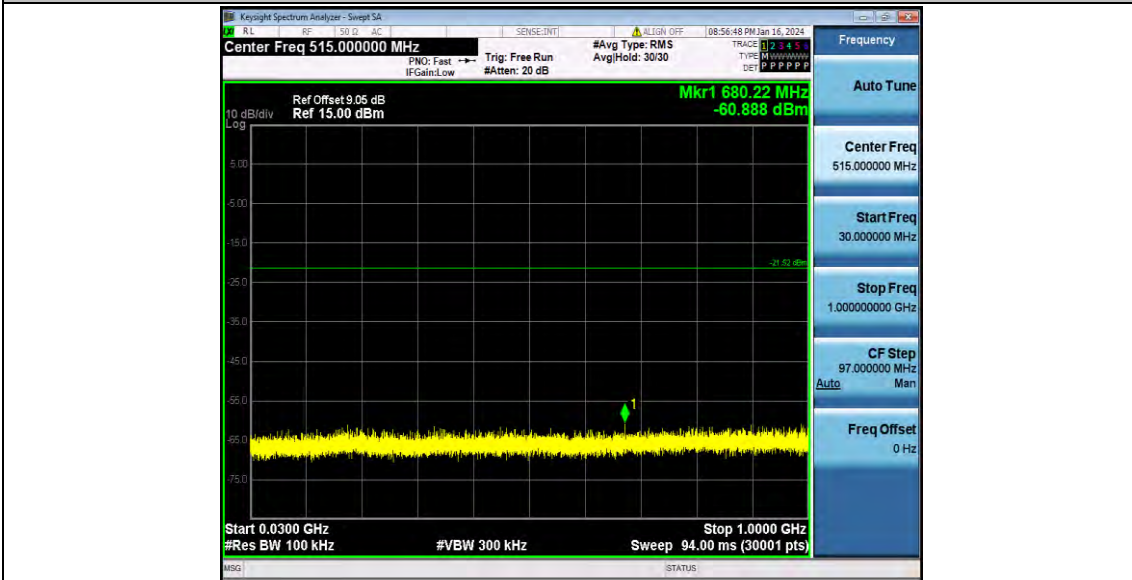


2DH1\_Ant1\_2441\_0~Reference





2DH1\_Ant1\_2441\_30~100



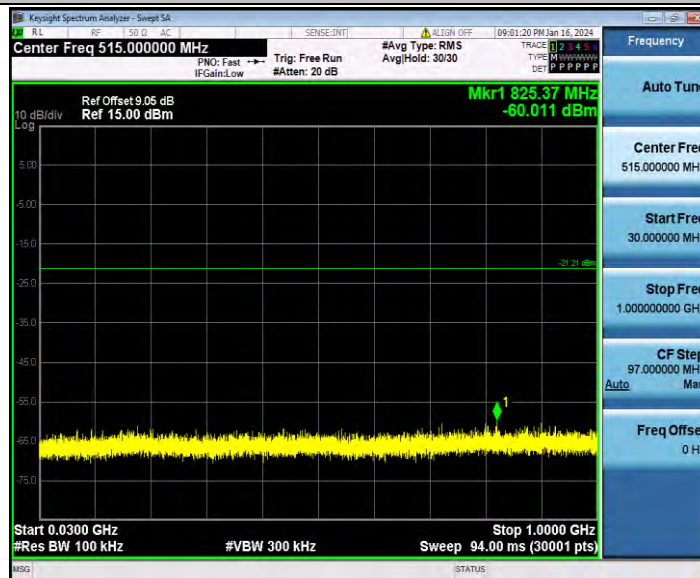
2DH1\_Ant1\_2441\_1000~26500



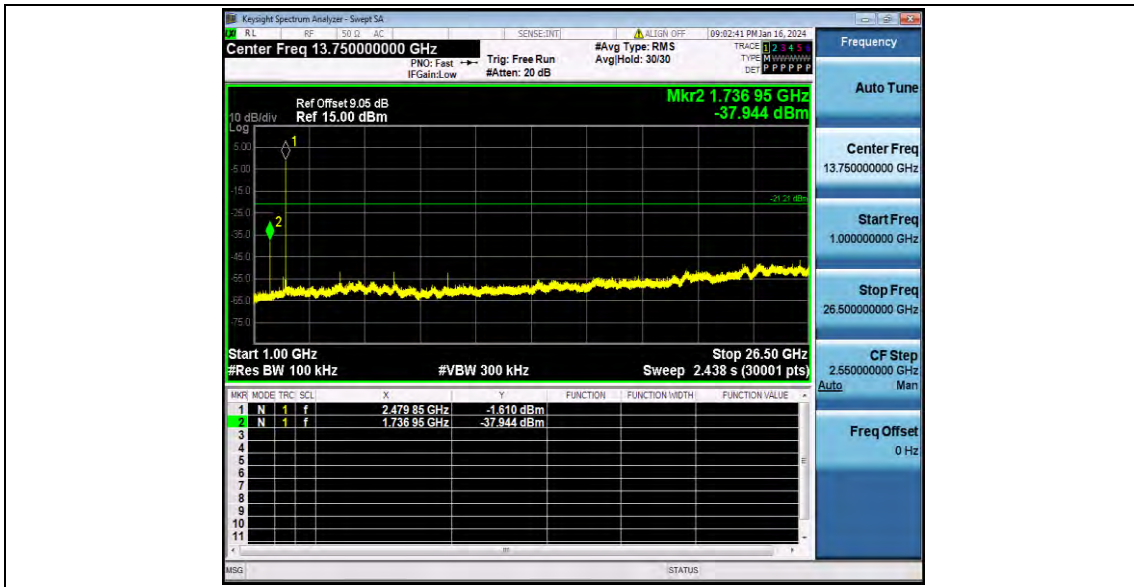
2DH1\_Ant1\_2480\_0~Reference



2DH1\_Ant1\_2480\_30~1000



2DH1\_Ant1\_2480\_1000~26500



## Appendix A.9: Emissions in Restricted Bands

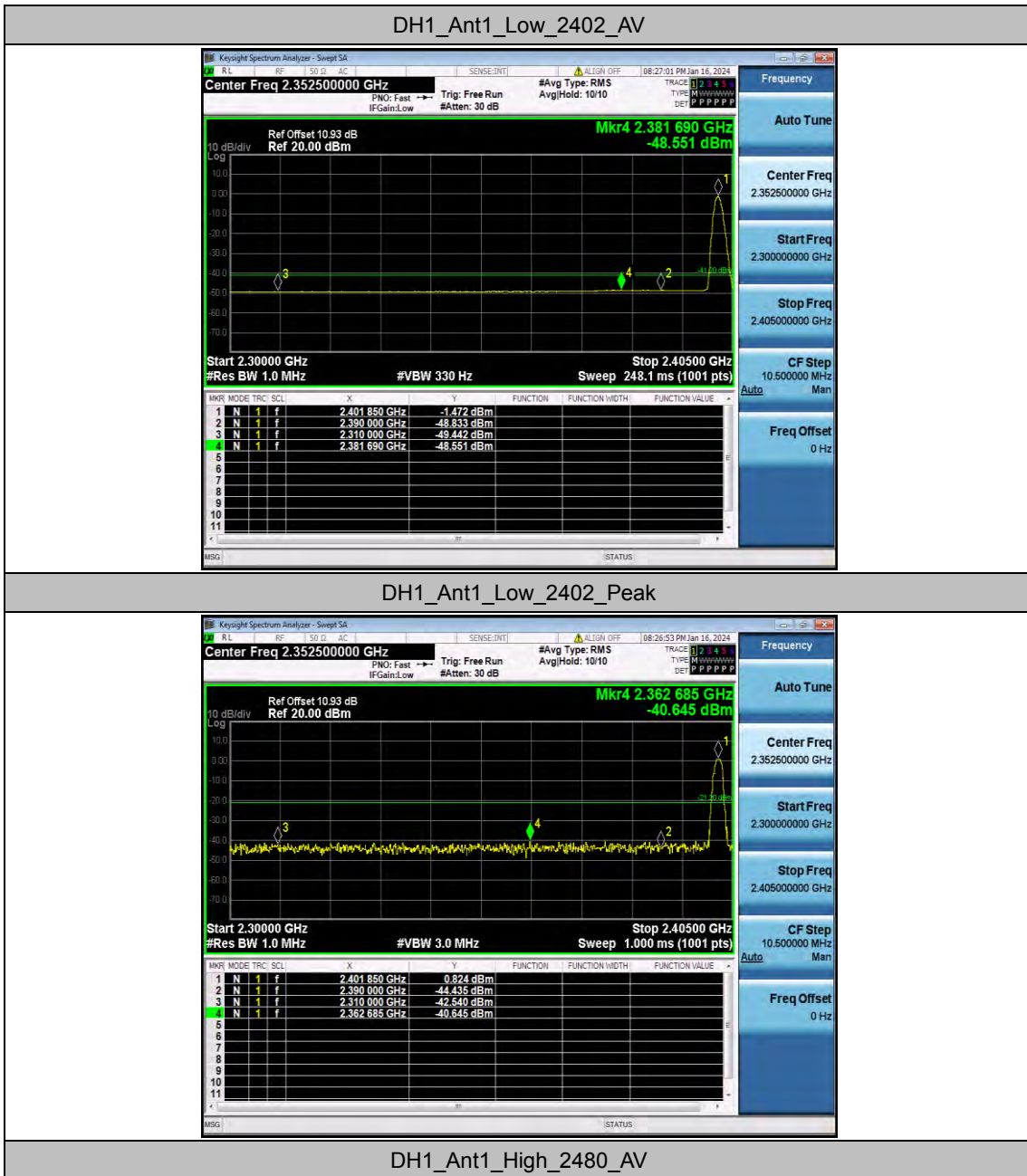
### Test Result

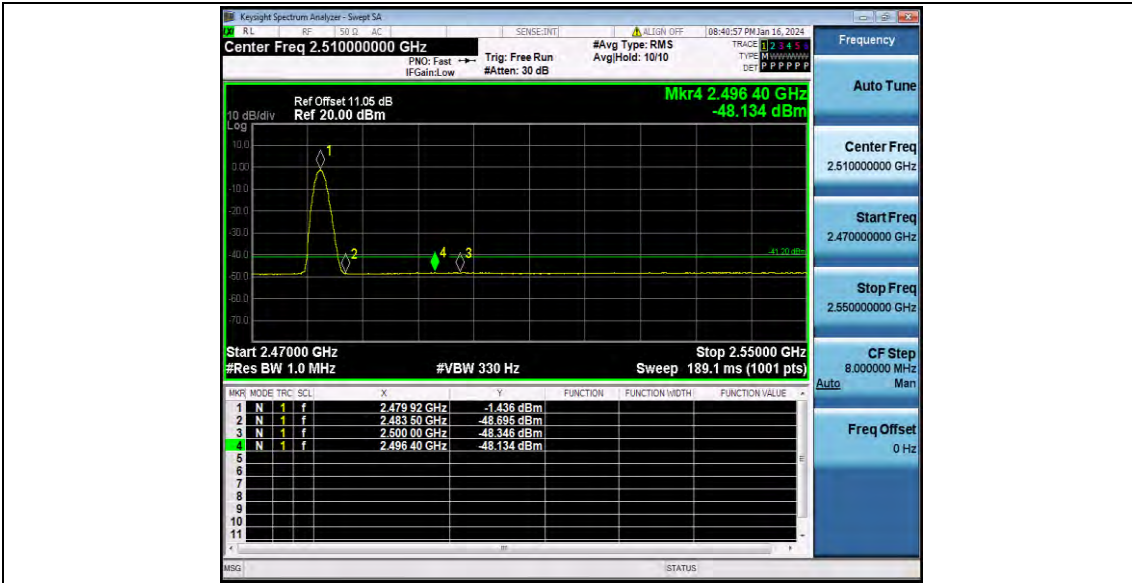
TestMode	Antenna	ChName	Freq(MHz )	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.44	≤-41.20	45.76	≤54	PASS
				AV	2381.690	-48.55	≤-41.20	46.65	≤54	PASS
				AV	2390.000	-48.83	≤-41.20	46.37	≤54	PASS
				Peak	2310.000	-42.54	≤-21.20	52.66	≤74	PASS
				Peak	2362.685	-40.64	≤-21.20	54.56	≤74	PASS
				Peak	2390.000	-44.44	≤-21.20	50.76	≤74	PASS
		High	2480	AV	2483.500	-48.7	≤-41.20	46.50	≤54	PASS
				AV	2496.400	-48.13	≤-41.20	47.07	≤54	PASS
				AV	2500.000	-48.35	≤-41.20	46.85	≤54	PASS
				Peak	2483.500	-41.29	≤-21.20	53.91	≤74	PASS
				Peak	2493.520	-38.02	≤-21.20	57.18	≤74	PASS
				Peak	2500.000	-40.4	≤-21.20	54.80	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.51	≤-41.20	45.69	≤54	PASS
				AV	2381.690	-48.26	≤-41.20	46.94	≤54	PASS
				AV	2390.000	-48.66	≤-41.20	46.54	≤54	PASS
				Peak	2310.000	-41.81	≤-21.20	53.39	≤74	PASS
				Peak	2341.265	-38.84	≤-21.20	56.36	≤74	PASS
				Peak	2390.000	-40.48	≤-21.20	54.72	≤74	PASS
		High	2480	AV	2483.500	-48.54	≤-41.20	46.66	≤54	PASS
				AV	2497.120	-48.06	≤-41.20	47.14	≤54	PASS
				AV	2500.000	-48.14	≤-41.20	47.06	≤54	PASS
				Peak	2483.500	-41.22	≤-21.20	53.98	≤74	PASS
				Peak	2497.520	-38.68	≤-21.20	56.52	≤74	PASS
				Peak	2500.000	-40.44	≤-21.20	54.76	≤74	PASS

Note:

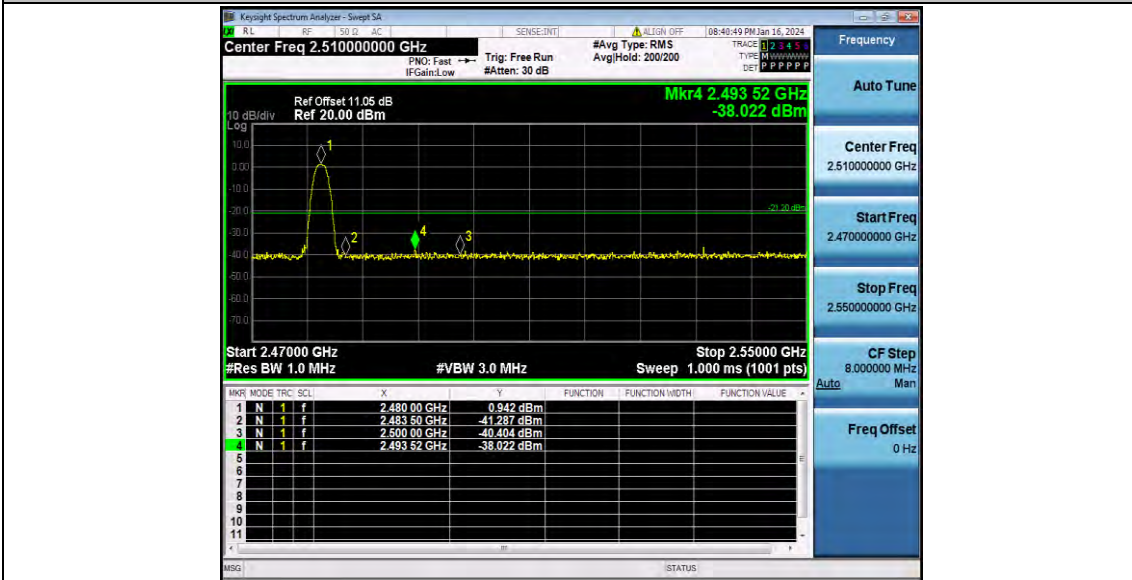
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

## Test Graphs

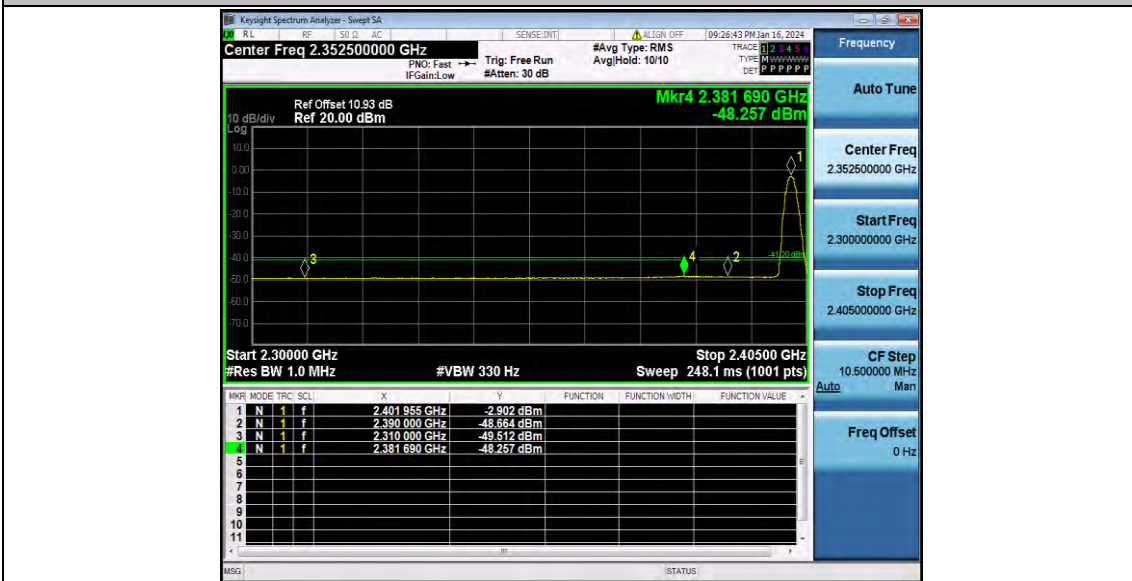




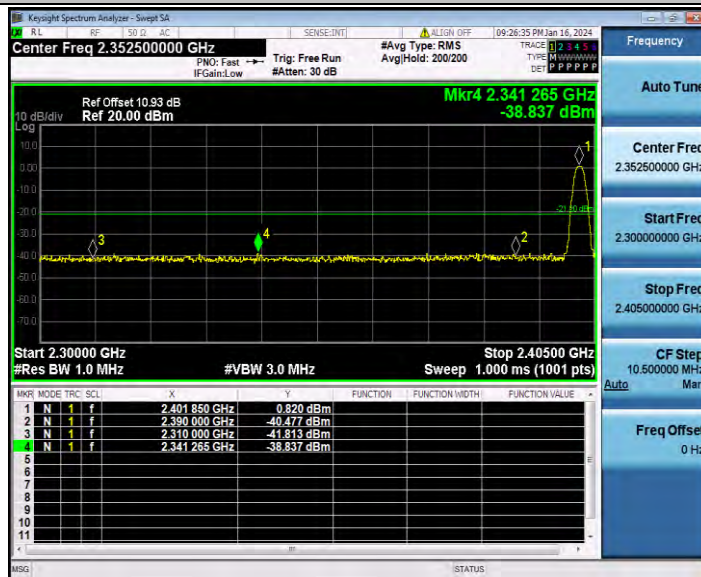
DH1\_Ant1\_High\_2480\_Peak



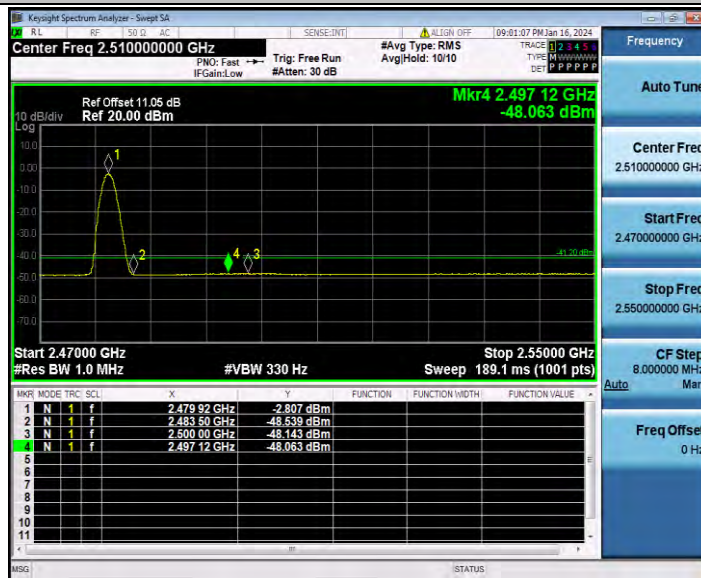
2DH1\_Ant1\_Low\_2402\_AV



2DH1\_Ant1\_Low\_2402\_Peak



2DH1\_Ant1\_High\_2480\_AV



2DH1\_Ant1\_High\_2480\_Peak

