

<b>Case No. :</b> <u>GTS20230210003-1-3</u>
<b>Ambient Condition:</b> <u>25</u> °C, <u>45</u> %RH, Atmos100.1Kpa,
<b>Test Date:</b> <u>2023.2.27</u> <b>Test Engineer:</b> <u>Jenny zeng</u>

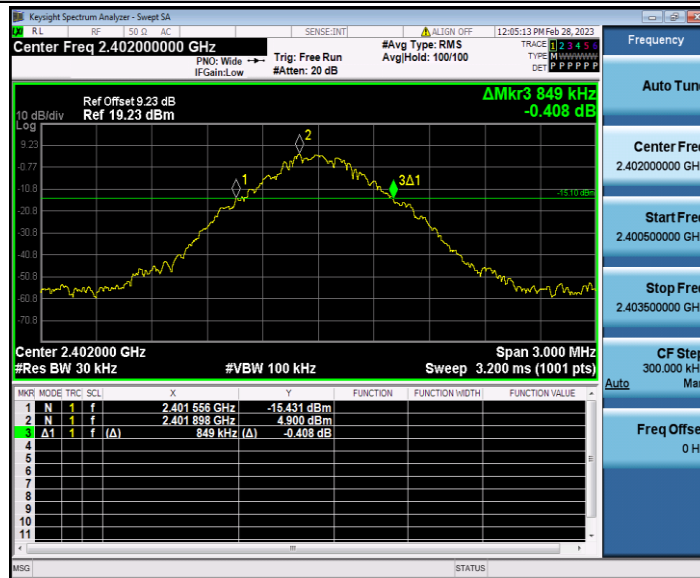
## Appendix A.1: 20dB Emission Bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.849	2401.556	2402.405	---	PASS
		2441	0.807	2440.601	2441.408	---	PASS
		2480	0.789	2479.601	2480.390	---	PASS
2DH1	Ant1	2402	1.236	2401.373	2402.609	---	PASS
		2441	1.218	2440.373	2441.591	---	PASS
		2480	1.230	2479.373	2480.603	---	PASS
3DH1	Ant1	2402	1.239	2401.373	2402.612	---	PASS
		2441	1.227	2440.388	2441.615	---	PASS
		2480	1.227	2479.388	2480.615	---	PASS

## Test Graphs

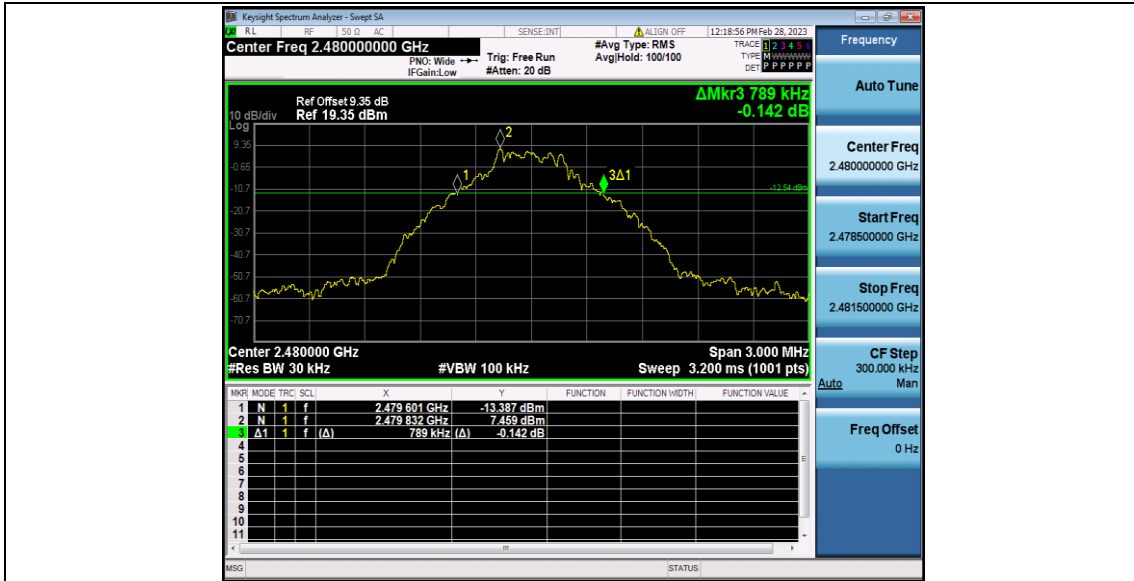
DH1\_Ant1\_2402



DH1\_Ant1\_2441



DH1\_Ant1\_2480



2DH1\_Ant1\_2402



2DH1\_Ant1\_2441



2DH1\_Ant1\_2480



3DH1\_Ant1\_2402



3DH1\_Ant1\_2441



3DH1\_Ant1\_2480

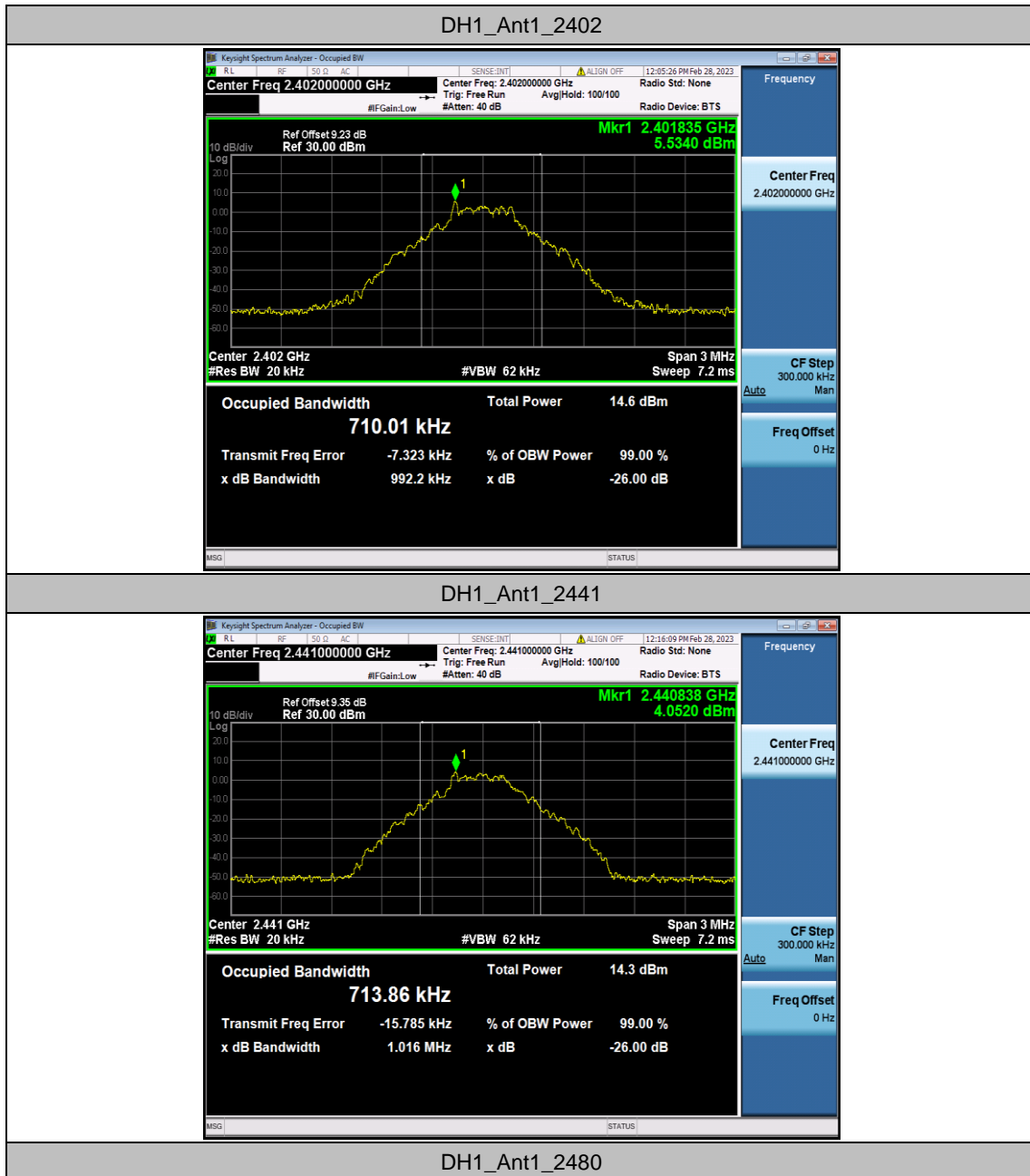


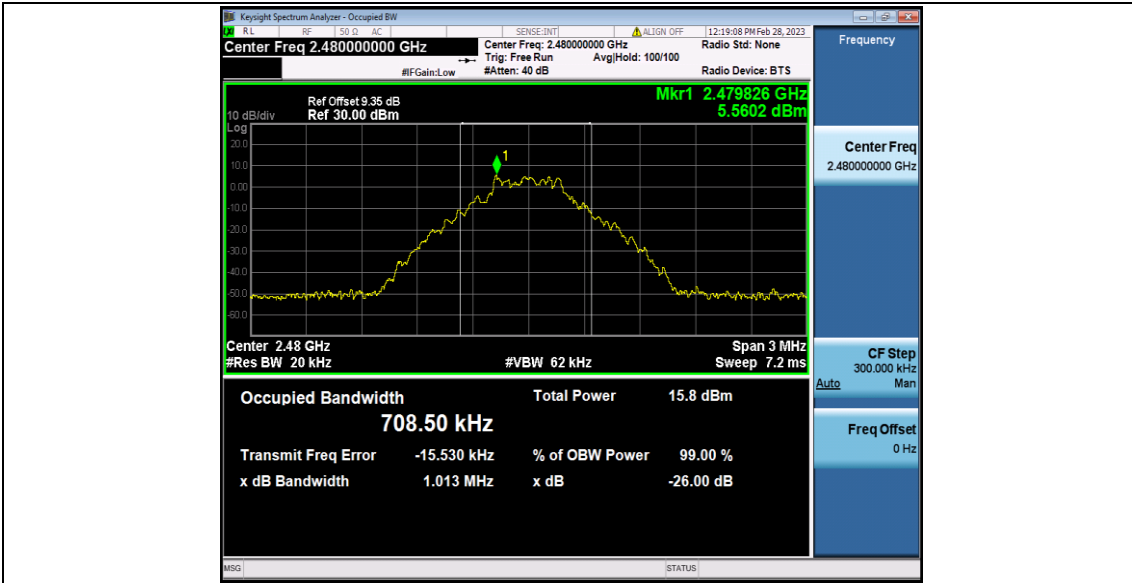
## Appendix A.2: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.71001	2401.638	2402.348	---	PASS
		2441	0.71386	2440.627	2441.341	---	PASS
		2480	0.70850	2479.630	2480.339	---	PASS
2DH1	Ant1	2402	1.1398	2401.420	2402.559	---	PASS
		2441	1.1348	2440.424	2441.558	---	PASS
		2480	1.1336	2479.423	2480.556	---	PASS
3DH1	Ant1	2402	1.1371	2401.432	2402.569	---	PASS
		2441	1.1293	2440.433	2441.563	---	PASS
		2480	1.1284	2479.435	2480.564	---	PASS

## Test Graphs





2DH1\_Ant1\_2402



2DH1\_Ant1\_2441





2DH1\_Ant1\_2480



3DH1\_Ant1\_2402



3DH1\_Ant1\_2441



3DH1\_Ant1\_2480



## Appendix A.3: Maximum conducted output power

### Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	8.68	$\leq 20.97$	PASS
		2441	8.47	$\leq 20.97$	PASS
		2480	10.44	$\leq 20.97$	PASS
2DH1	Ant1	2402	7.75	$\leq 20.97$	PASS
		2441	8.64	$\leq 20.97$	PASS
		2480	9.39	$\leq 20.97$	PASS
3DH1	Ant1	2402	7.78	$\leq 20.97$	PASS
		2441	8.56	$\leq 20.97$	PASS
		2480	9.28	$\leq 20.97$	PASS

## Appendix A.4: Carrier frequency separation

### Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.99	$\geq 0.566$	PASS
		Hop_2441	0.836	$\geq 0.566$	PASS
		Hop_2480	1.162	$\geq 0.566$	PASS
2DH1	Ant1	Hop_2402	0.994	$\geq 0.824$	PASS
		Hop_2441	1	$\geq 0.824$	PASS
		Hop_2480	0.994	$\geq 0.824$	PASS
3DH1	Ant1	Hop_2402	1.002	$\geq 0.826$	PASS
		Hop_2441	1.184	$\geq 0.826$	PASS
		Hop_2480	1.168	$\geq 0.826$	PASS

## Test Graphs





2DH1\_Ant1\_Hop\_2402



2DH1\_Ant1\_Hop\_2441



2DH1\_Ant1\_Hop\_2480



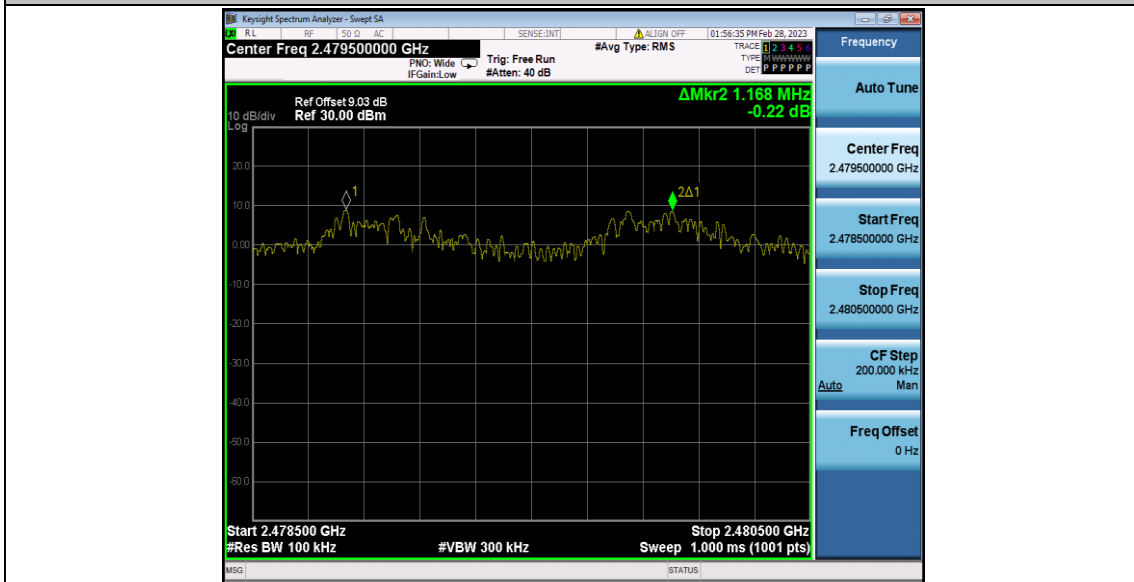
3DH1\_Ant1\_Hop\_2402



3DH1\_Ant1\_Hop\_2441



3DH1\_Ant1\_Hop\_2480



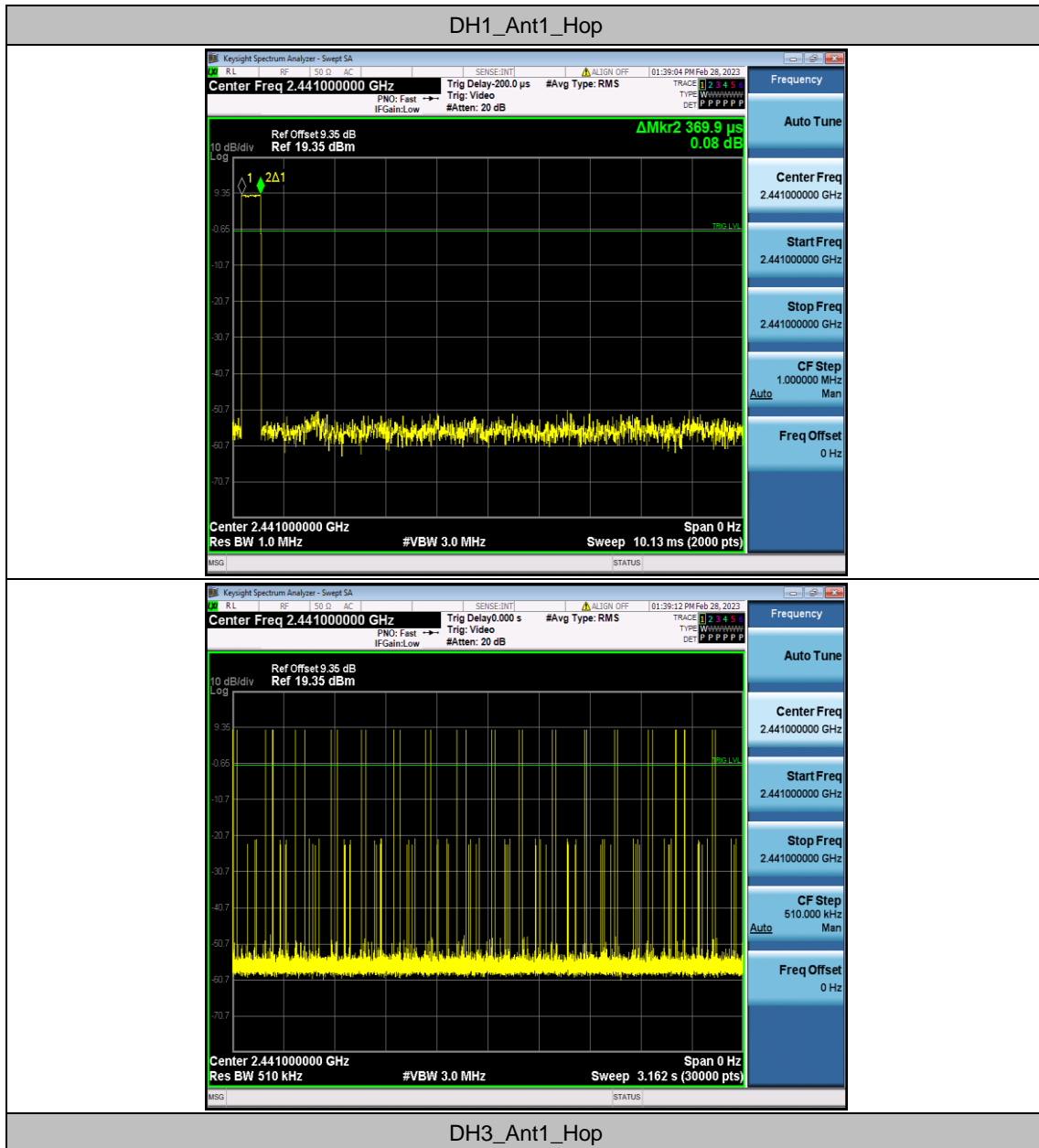


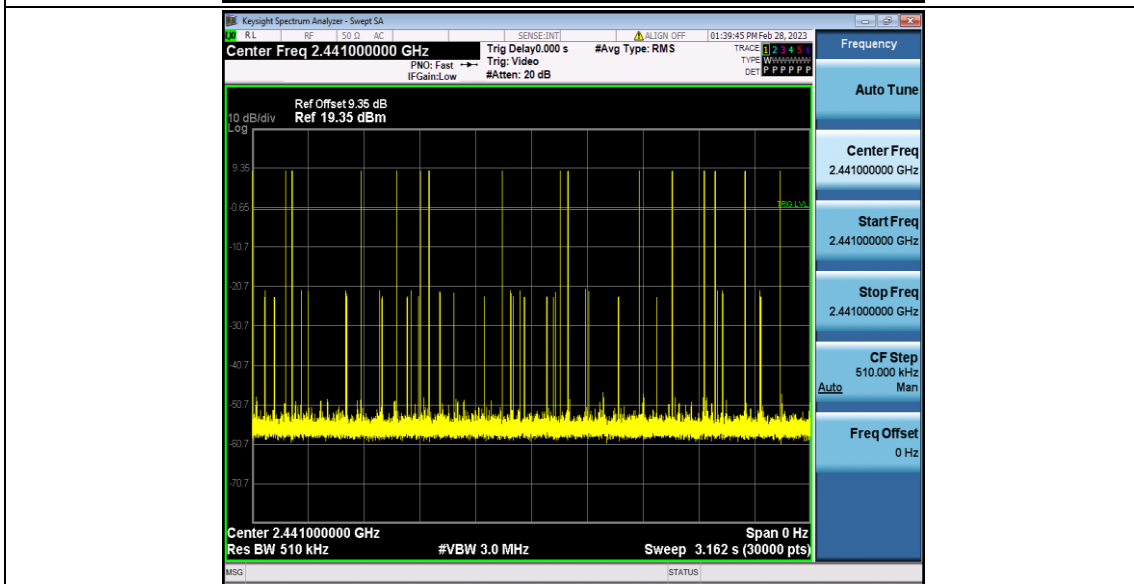
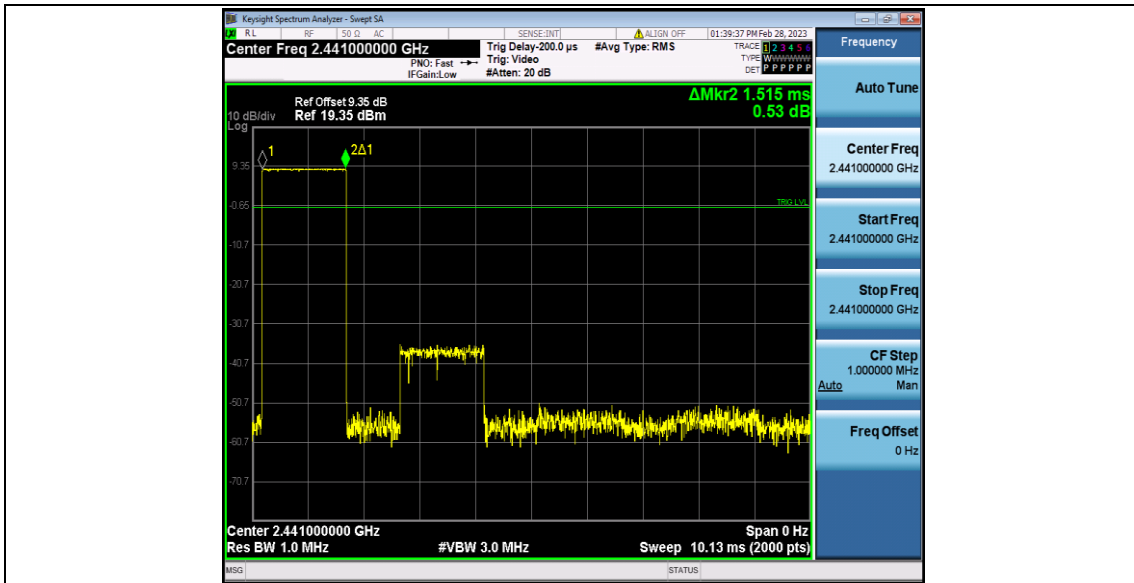
## Appendix A.5: Time of occupancy

### Test Result

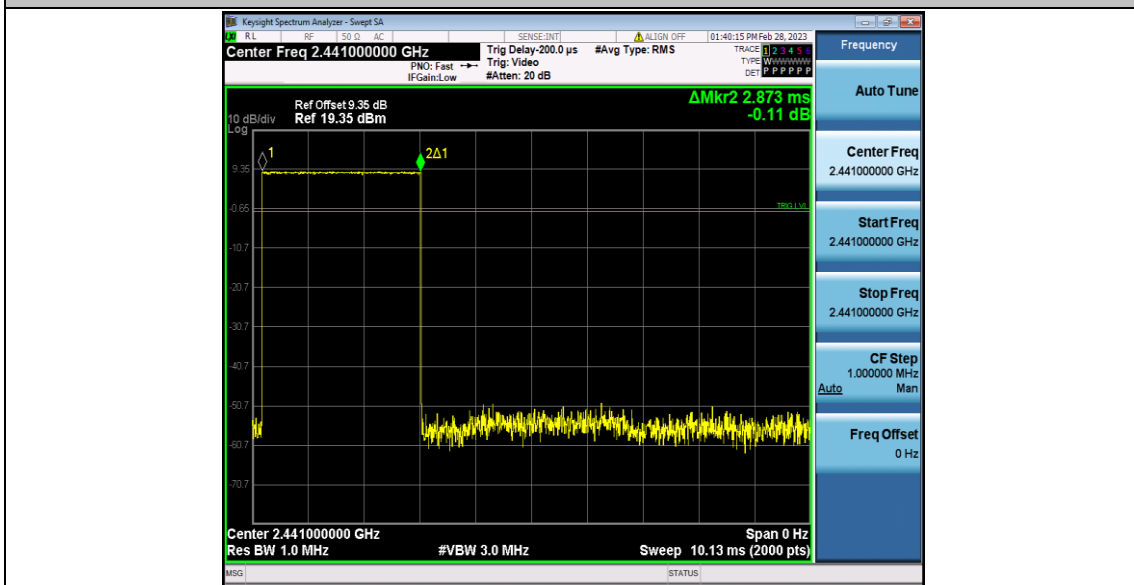
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	320	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.51	160	0.242	≤0.4	PASS
DH5	Ant1	Hop	2.87	130	0.373	≤0.4	PASS
2DH1	Ant1	Hop	0.37	330	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.63	160	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.88	120	0.345	≤0.4	PASS
3DH1	Ant1	Hop	0.37	330	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.63	160	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.88	120	0.345	≤0.4	PASS

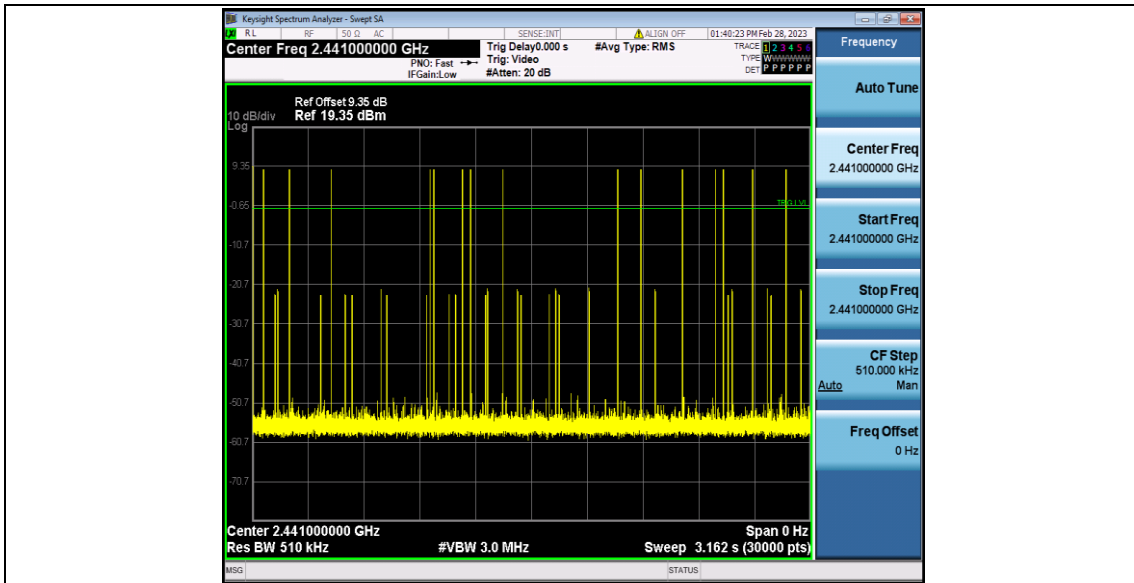
## Test Graphs



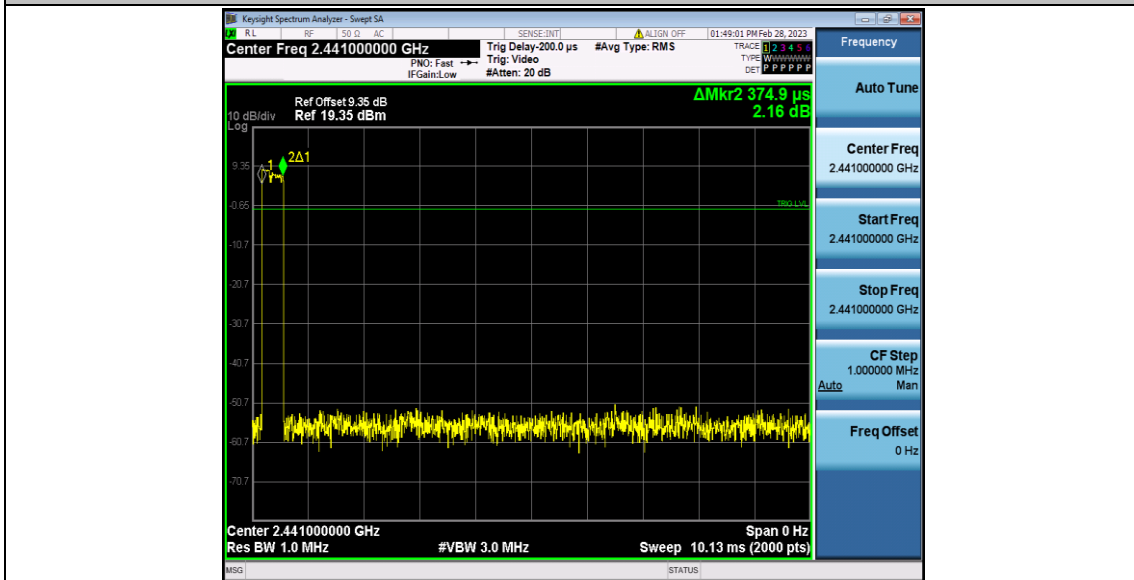


DH5\_Ant1\_Hop

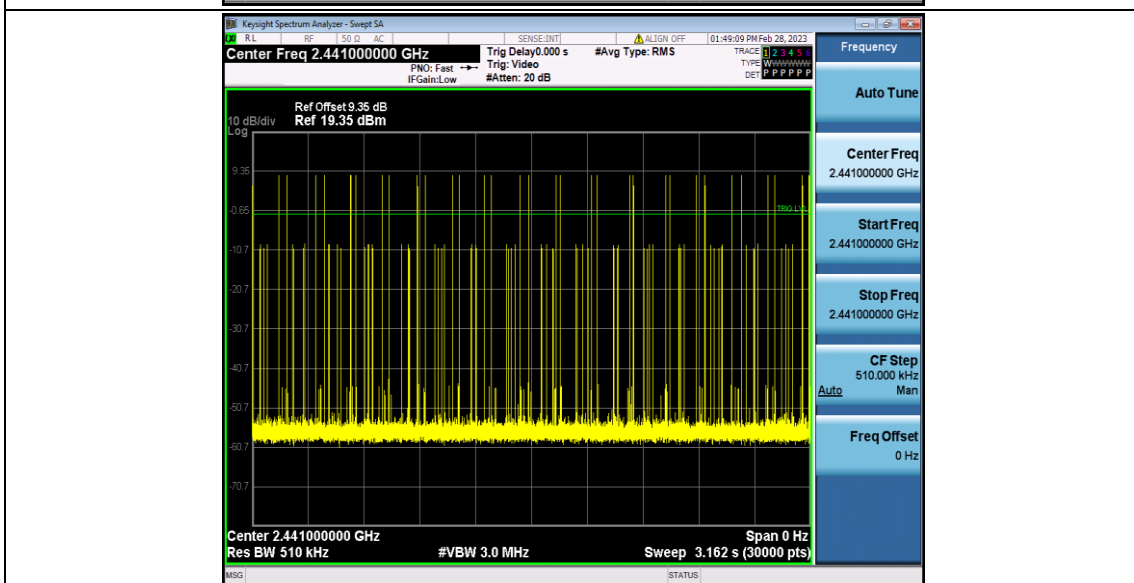


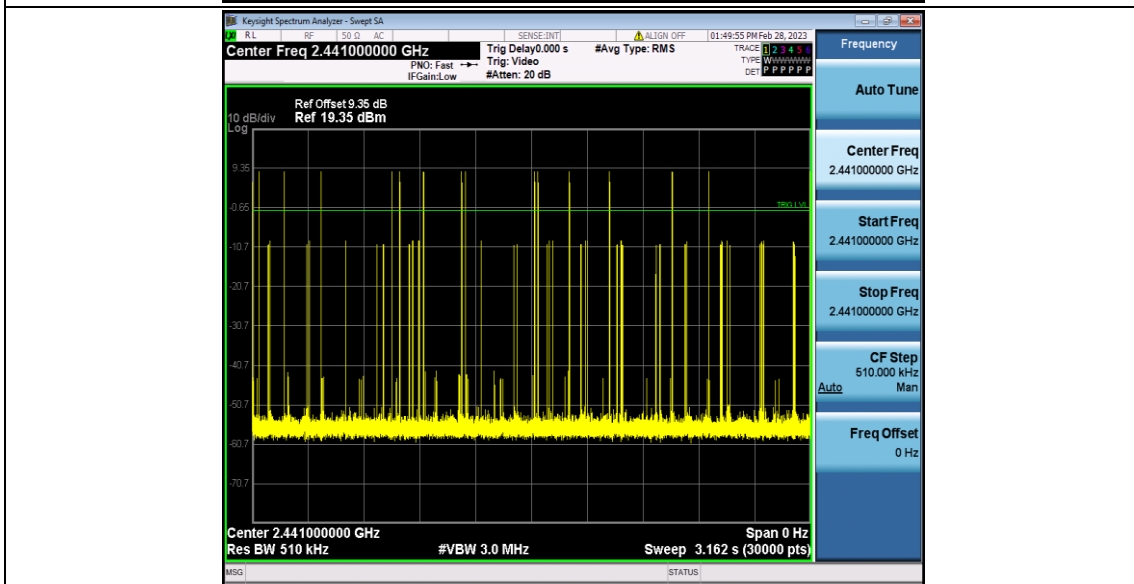
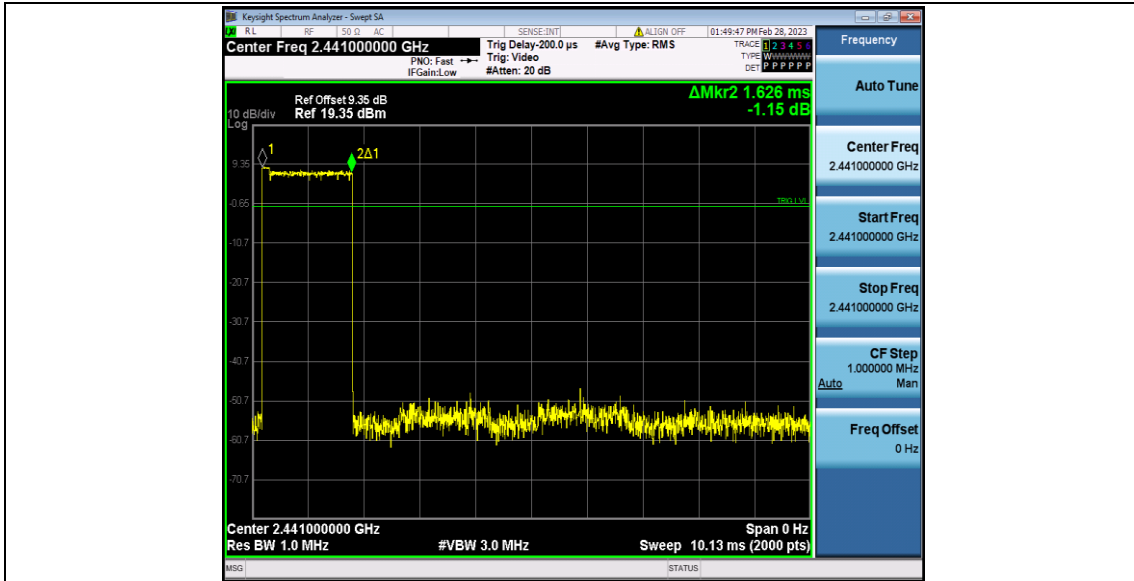


2DH1\_Ant1\_Hop

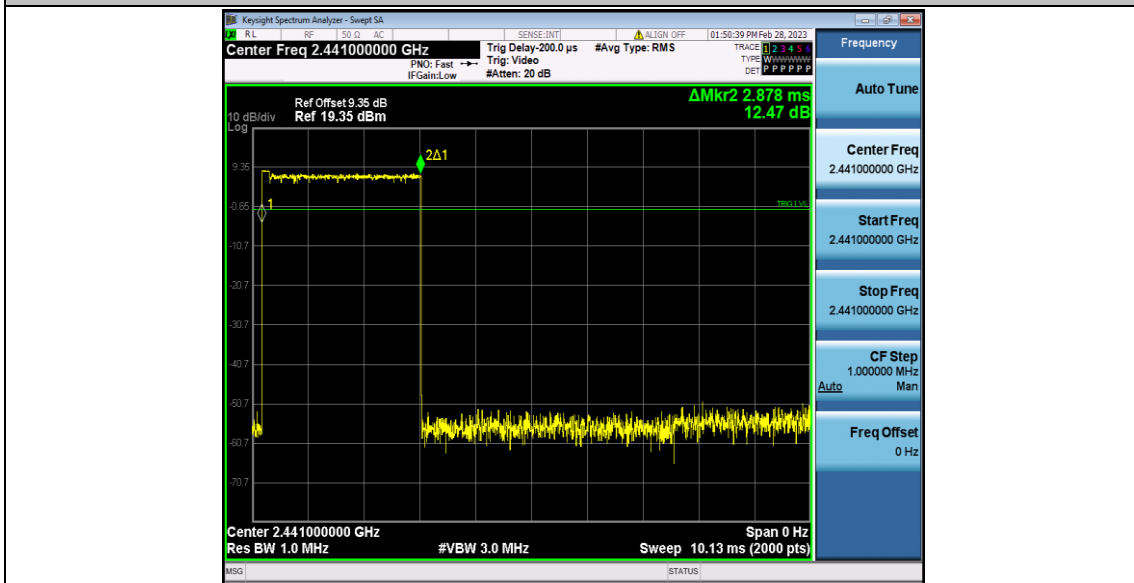


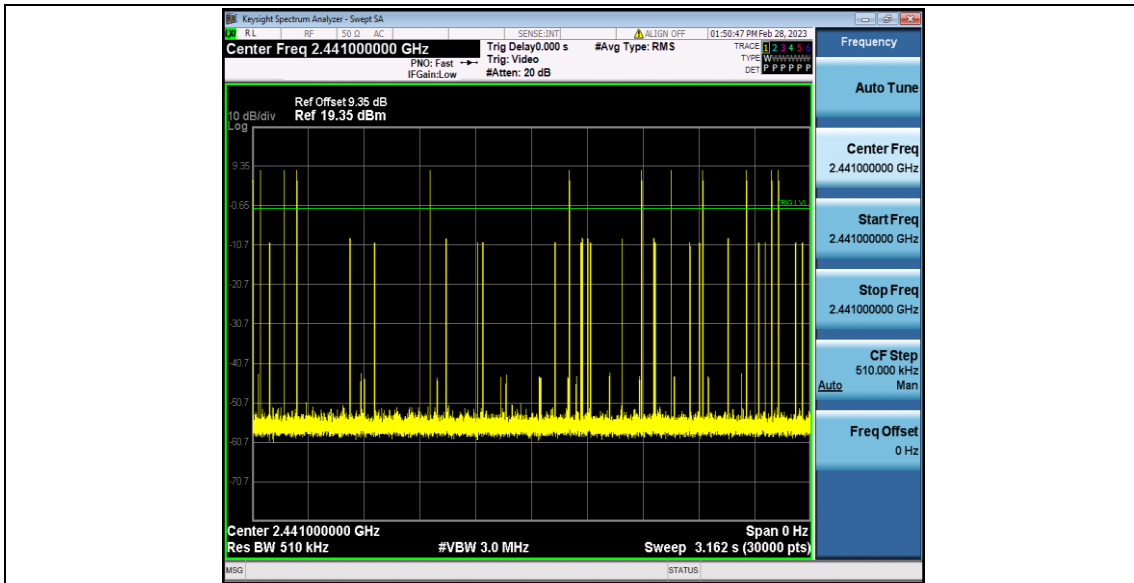
2DH3\_Ant1\_Hop



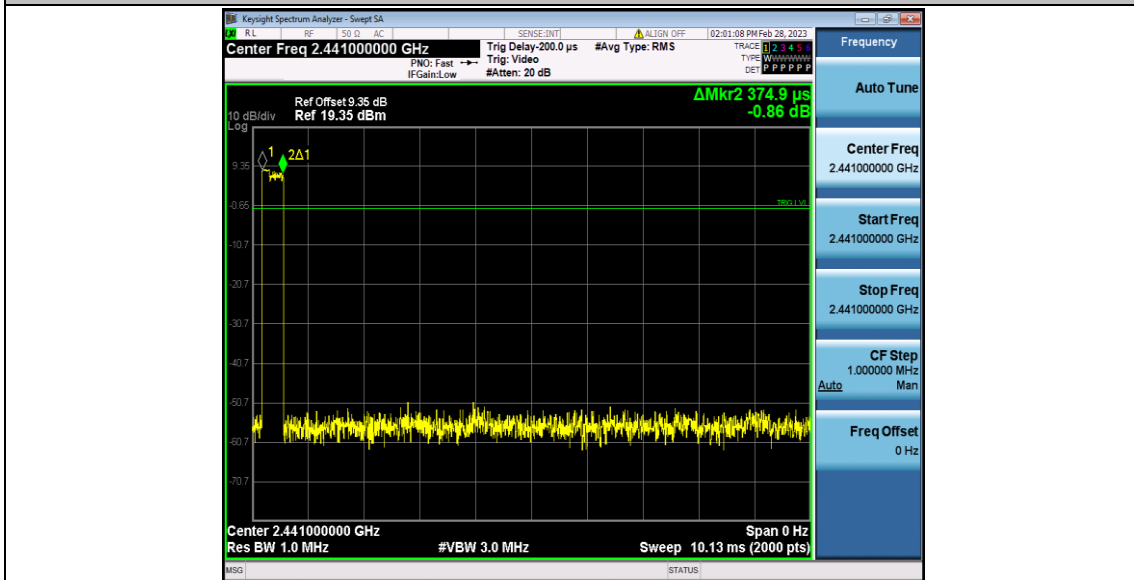


2DH5\_Ant1\_Hop

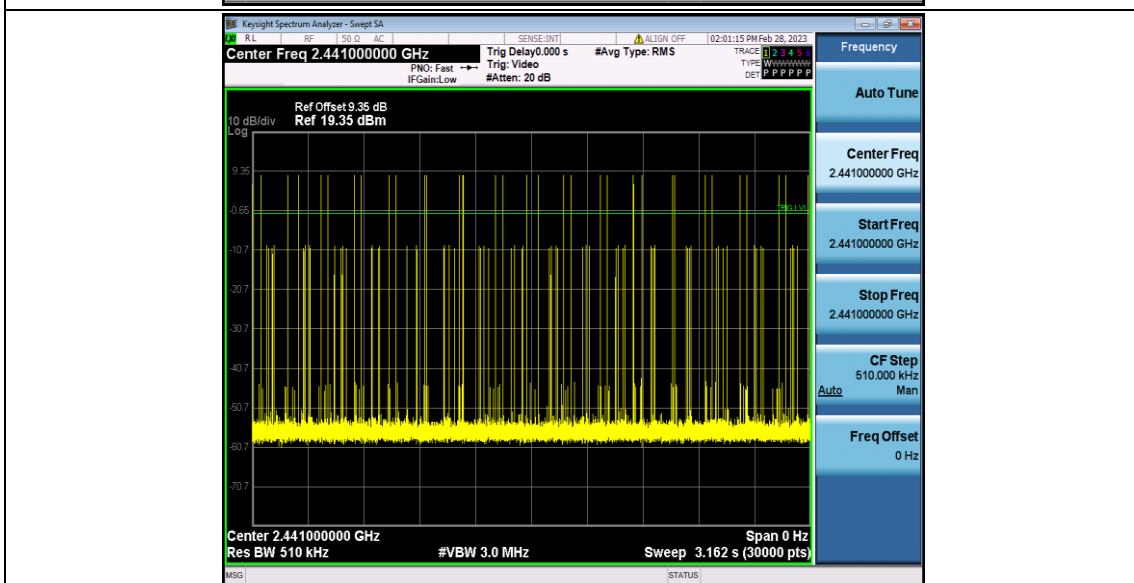


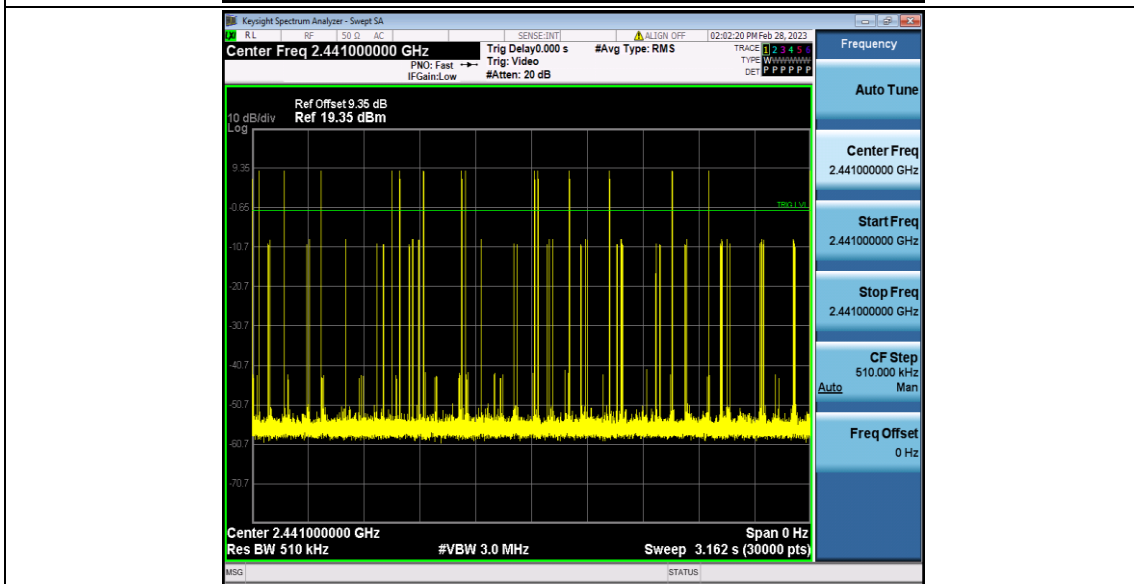
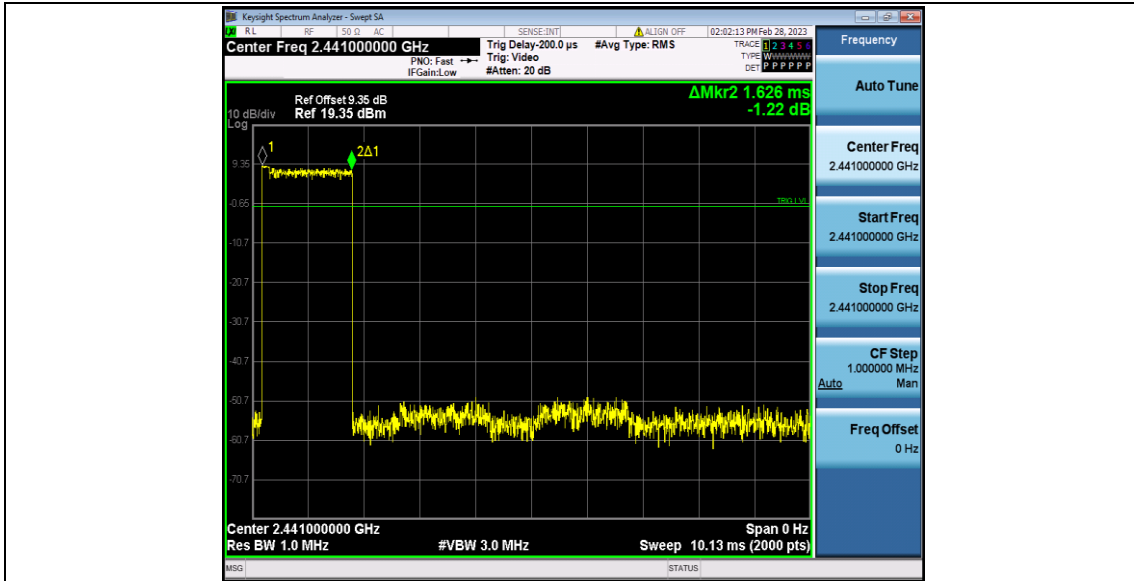


3DH1\_Ant1\_Hop

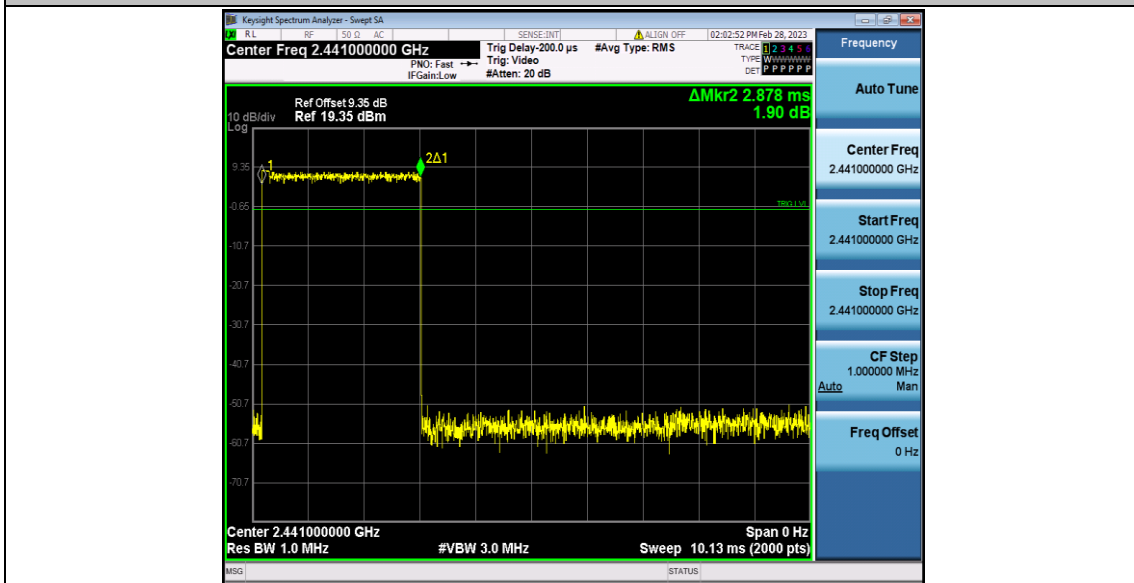


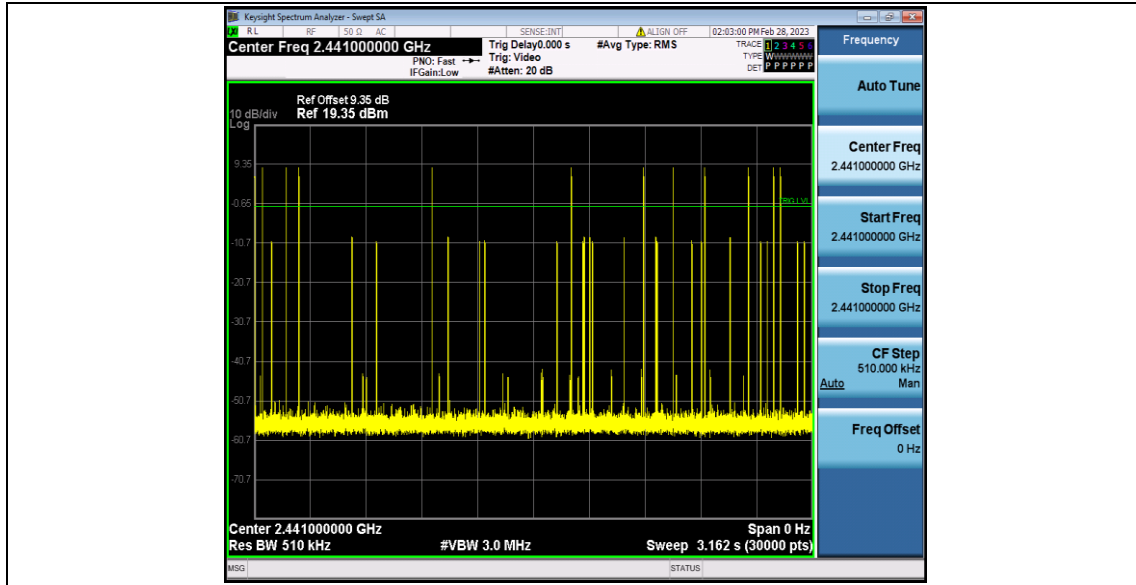
3DH3\_Ant1\_Hop





3DH5\_Ant1\_Hop





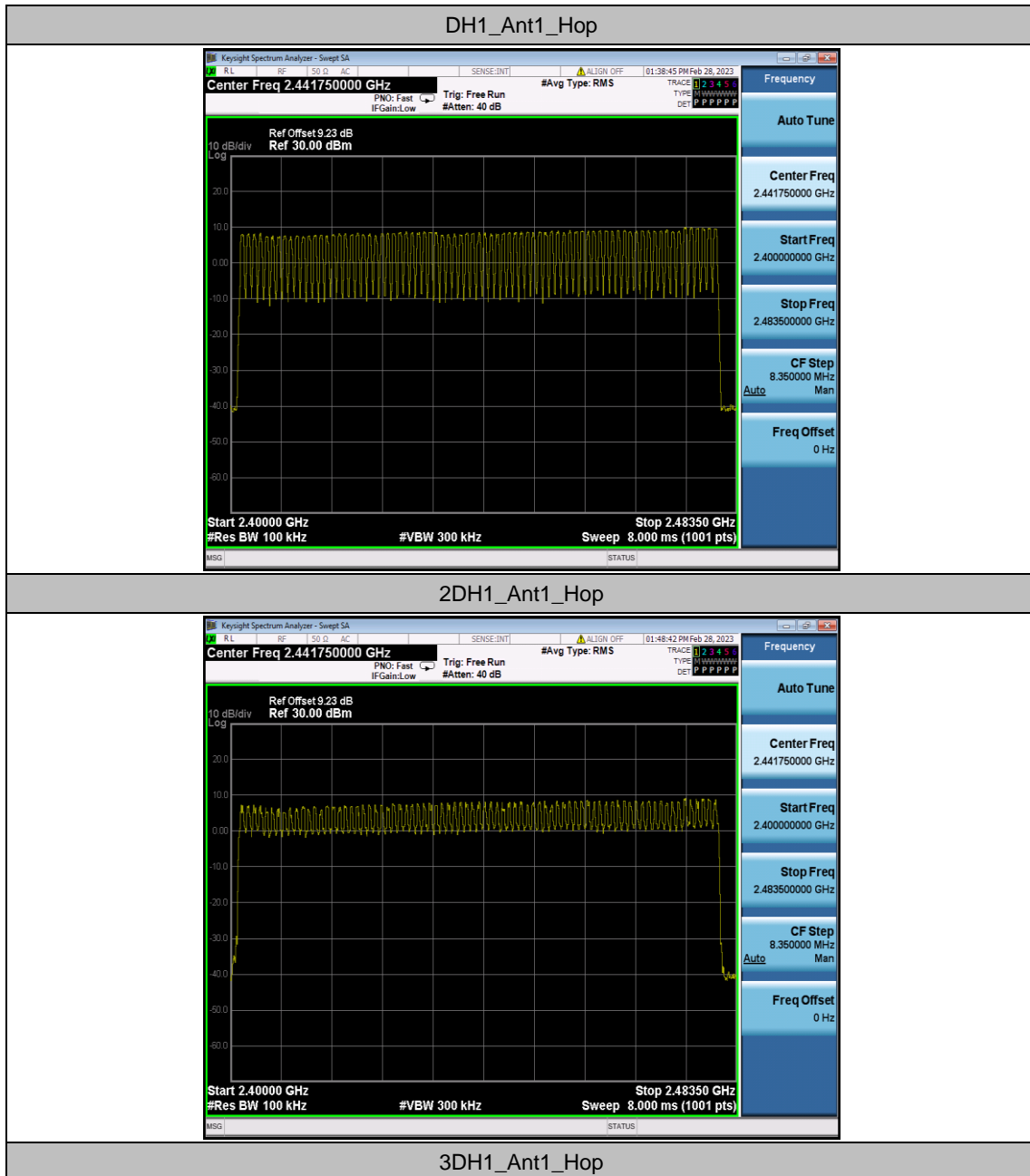


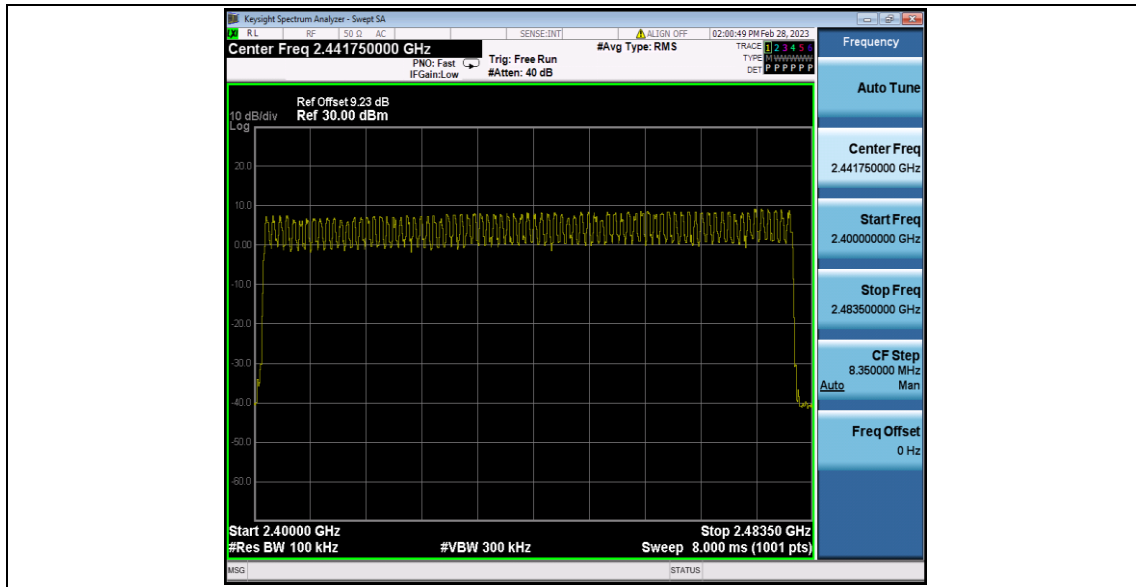
## Appendix A.6: Number of hopping channels

### Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

## Test Graphs



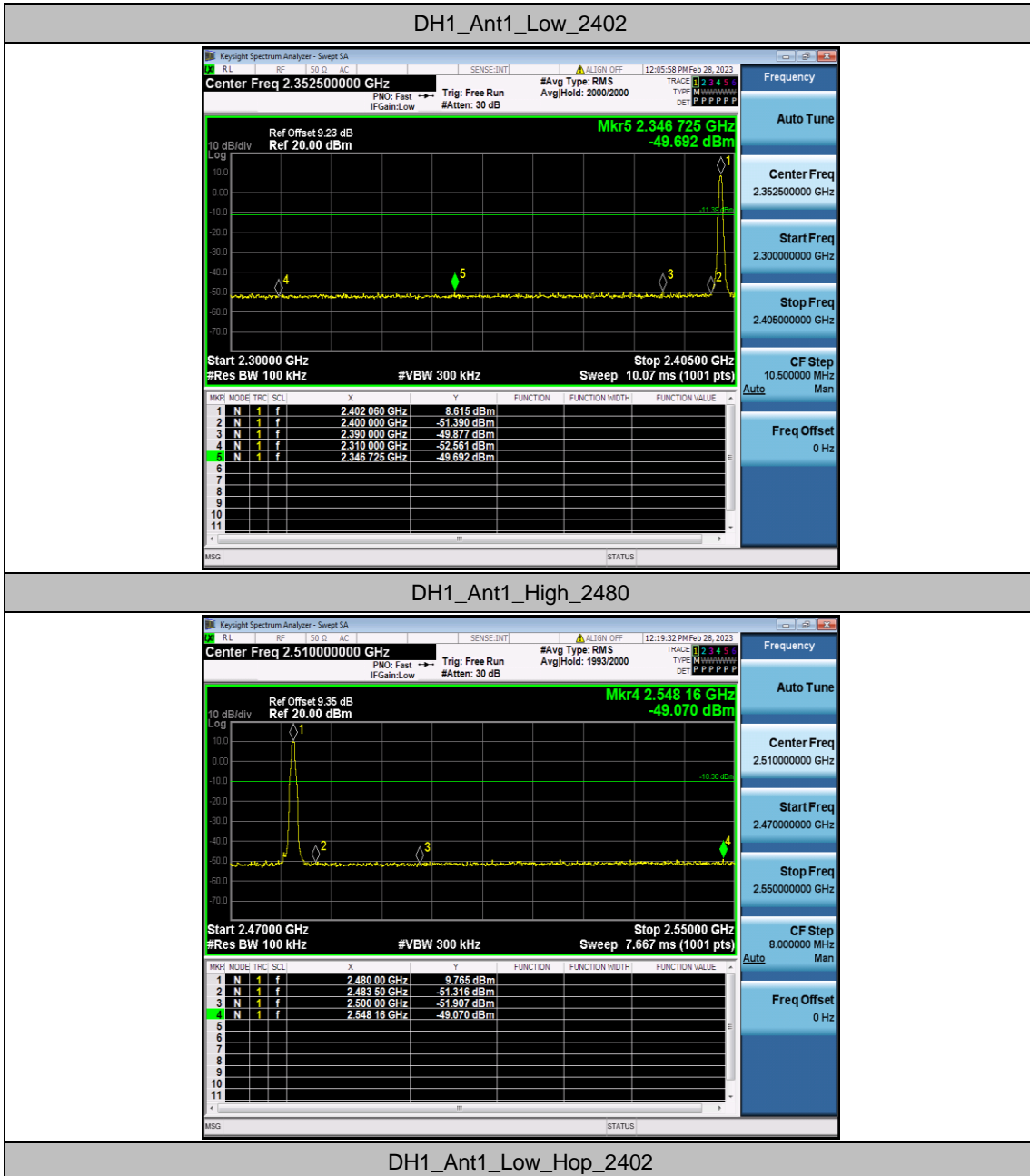


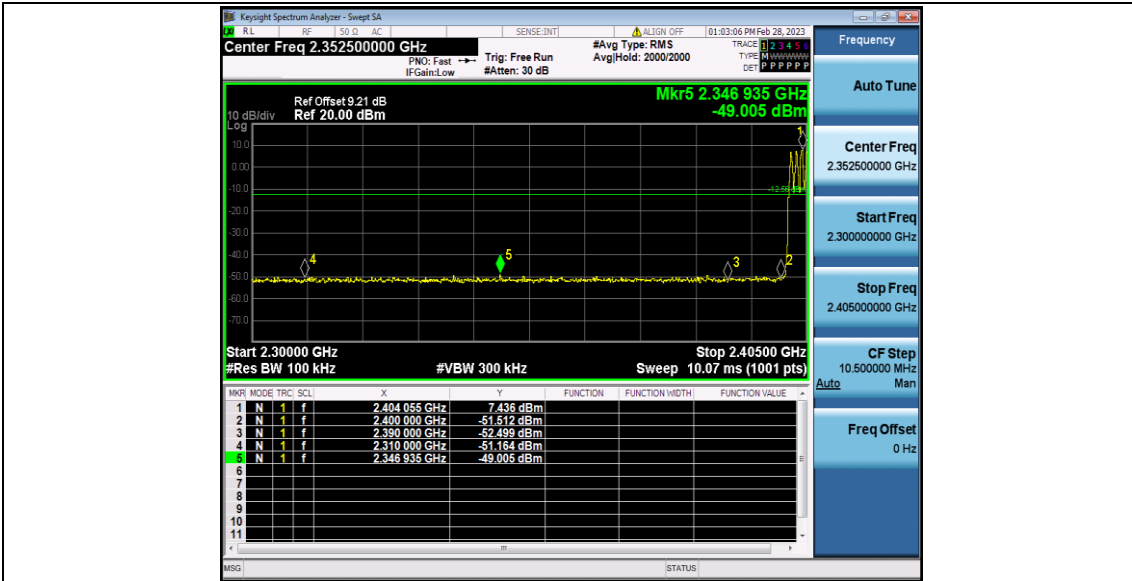
## Appendix A.7: Band edge measurements

### Test Result

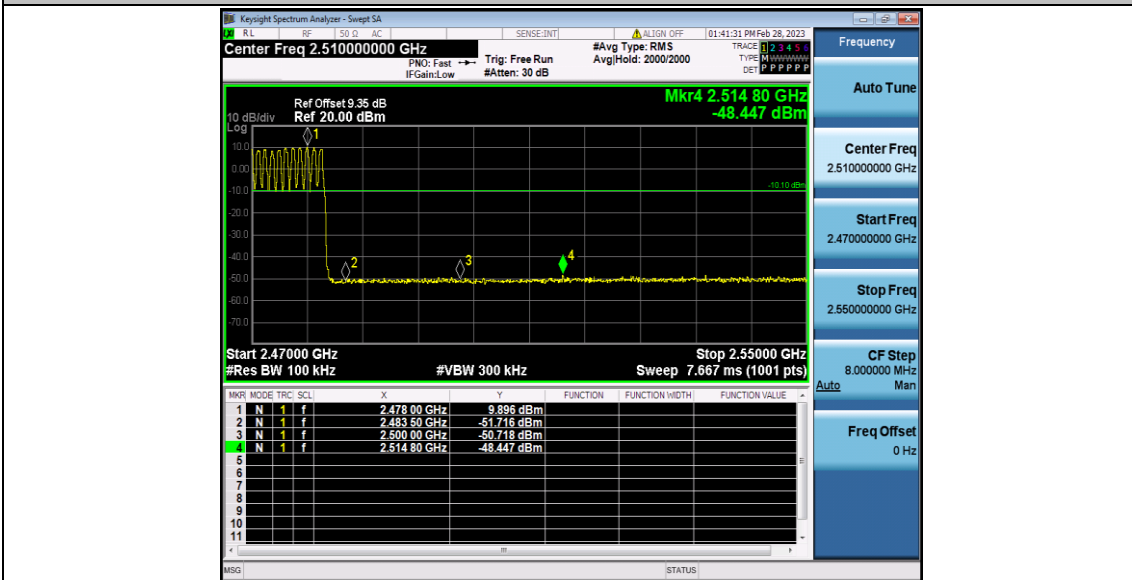
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	8.62	-49.69	≤-11.39	PASS
		High	2480	9.70	-49.07	≤-10.3	PASS
		Low	Hop_2402	7.44	-49.01	≤-12.56	PASS
		High	Hop_2480	9.90	-48.45	≤-10.1	PASS
2DH1	Ant1	Low	2402	7.50	-47.92	≤-12.5	PASS
		High	2480	9.22	-48.27	≤-10.78	PASS
		Low	Hop_2402	7.36	-49.33	≤-12.65	PASS
		High	Hop_2480	7.52	-48.58	≤-12.48	PASS
3DH1	Ant1	Low	2402	7.42	-47.12	≤-12.58	PASS
		High	2480	9.15	-48.51	≤-10.85	PASS
		Low	Hop_2402	7.54	-48.99	≤-12.46	PASS
		High	Hop_2480	9.30	-48.34	≤-10.7	PASS

## Test Graphs

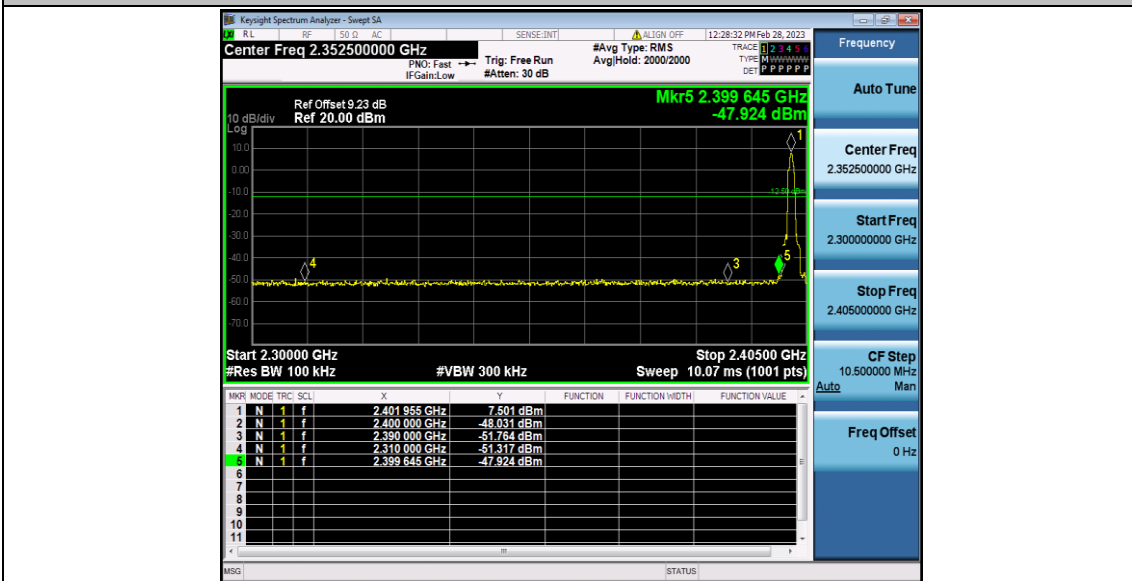




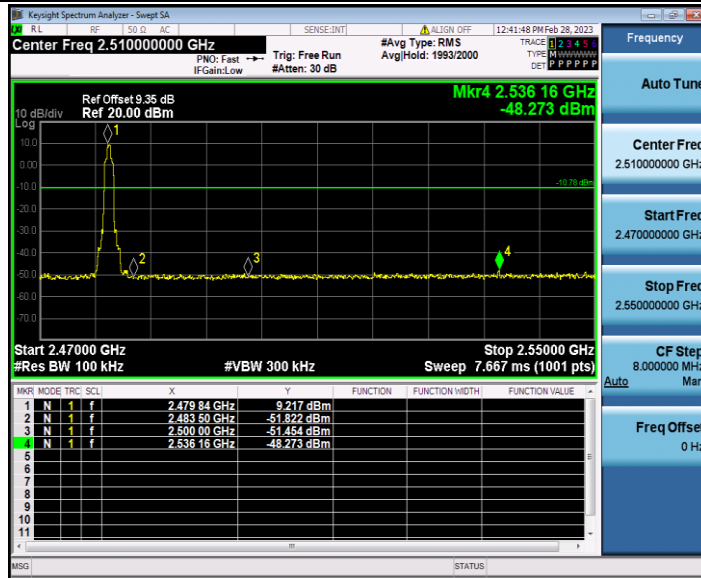
DH1\_Ant1\_High\_Hop\_2480



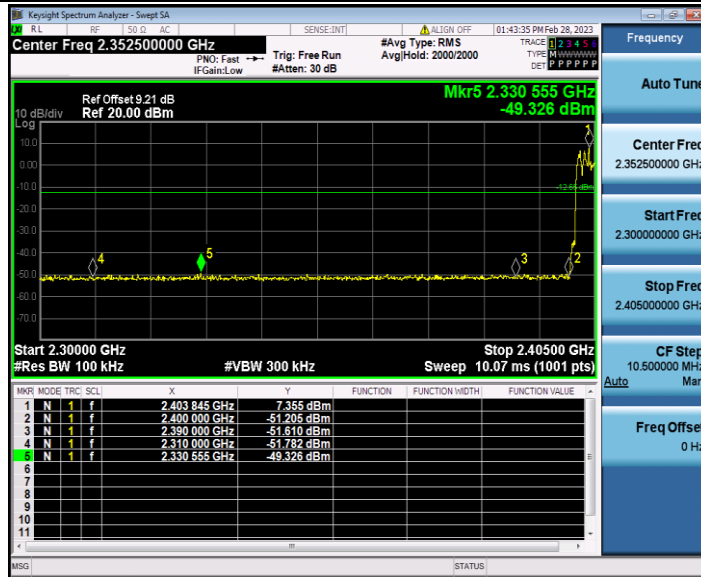
2DH1\_Ant1\_Low\_2402



2DH1\_Ant1\_High\_2480



2DH1\_Ant1\_Low\_Hop\_2402



2DH1\_Ant1\_High\_Hop\_2480