

<b>Case No. :</b> <u>GTS20221201014-1-7</u>
<b>Ambient Condition:</b> <u>25</u> °C, <u>45</u> %RH, Atmos100.1Kpa,
<b>Test Date:</b> <u>2022.12.12</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	0.882	2401.529	2402.411	---	---
		2441	0.936	2440.526	2441.462	---	---
		2480	0.885	2479.532	2480.417	---	---
2DH1	Ant1	2402	1.242	2401.352	2402.594	---	---
		2441	1.248	2440.322	2441.570	---	---
		2480	1.239	2479.364	2480.603	---	---

# Test Graphs

DH1\_Ant1\_2402



DH1\_Ant1\_2441



DH1\_Ant1\_2480



2DH1\_Ant1\_2402



2DH1\_Ant1\_2441



2DH1\_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	0.82201	2401.568	2402.390	---	---
		2441	0.81536	2440.571	2441.386	---	---
		2480	0.81047	2479.577	2480.388	---	---
2DH1	Ant1	2402	1.1749	2401.387	2402.562	---	---
		2441	1.1781	2440.388	2441.566	---	---
		2480	1.1838	2479.378	2480.562	---	---

# Test Graphs

DH1\_Ant1\_2402



DH1\_Ant1\_2441



DH1\_Ant1\_2480



2DH1\_Ant1\_2402



2DH1\_Ant1\_2441



# 2DH1\_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	2.39	≤30.00	PASS
		2441	4.54	≤30.00	PASS
		2480	3.73	≤30.00	PASS
2DH1	Ant1	2402	2.84	≤20.97	PASS
		2441	4.91	≤20.97	PASS
		2480	3.99	≤20.97	PASS

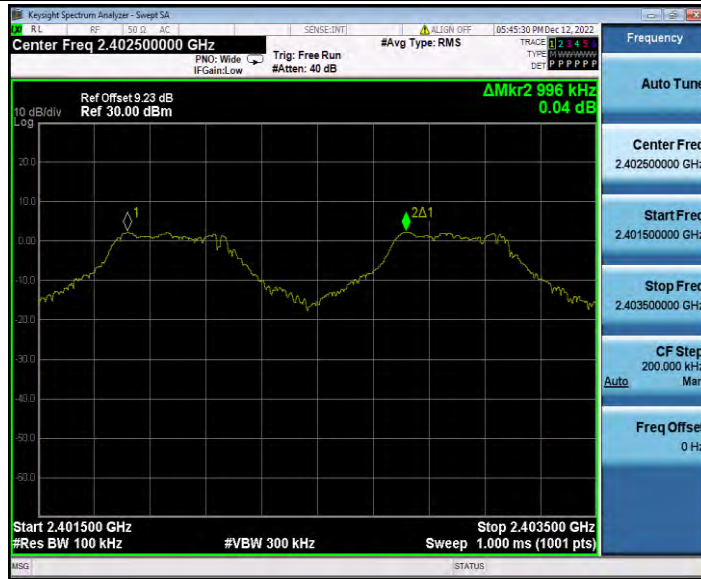
## Appendix A.4: Carrier frequency separation

### Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.996	$\geq 0.936$	PASS
		Hop_2441	0.994	$\geq 0.936$	PASS
		Hop_2480	1.138	$\geq 0.936$	PASS
2DH1	Ant1	Hop_2402	1.002	$\geq 0.832$	PASS
		Hop_2441	0.998	$\geq 0.832$	PASS
		Hop_2480	0.996	$\geq 0.832$	PASS

# Test Graphs

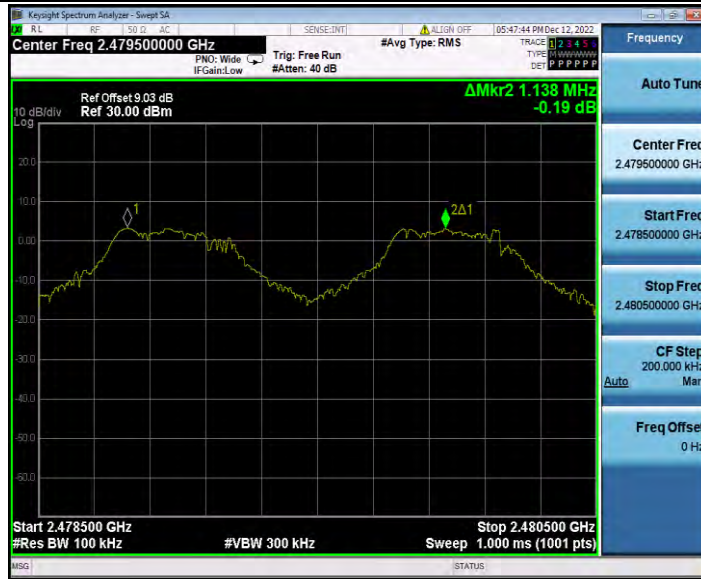
DH1\_Ant1\_Hop\_2402



DH1\_Ant1\_Hop\_2441



DH1\_Ant1\_Hop\_2480



2DH1\_Ant1\_Hop\_2402



2DH1\_Ant1\_Hop\_2441



# 2DH1\_Ant1\_Hop\_2480



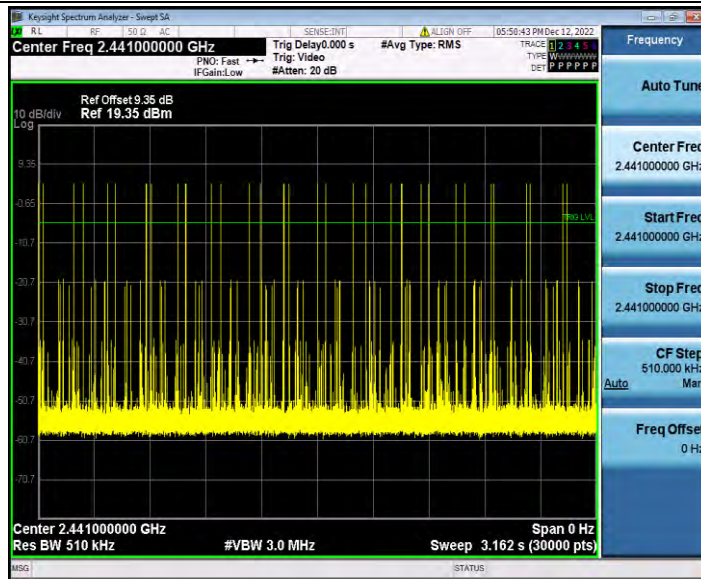
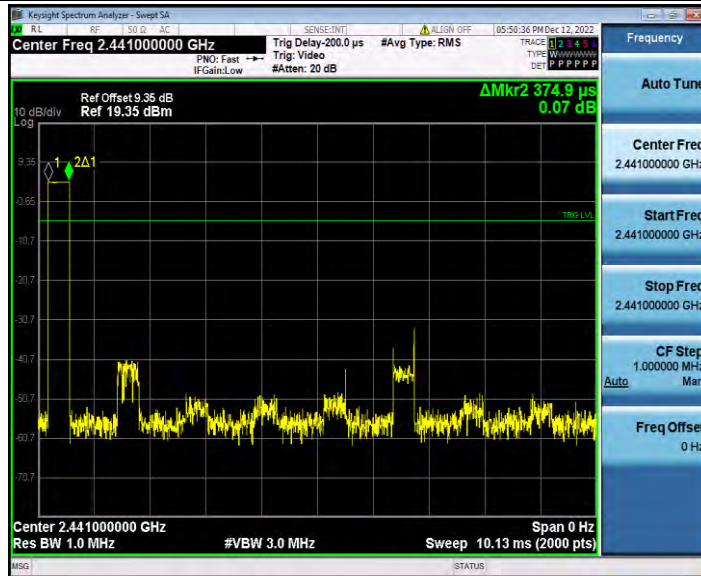
## Appendix A.5: Time of occupancy

### Test Result

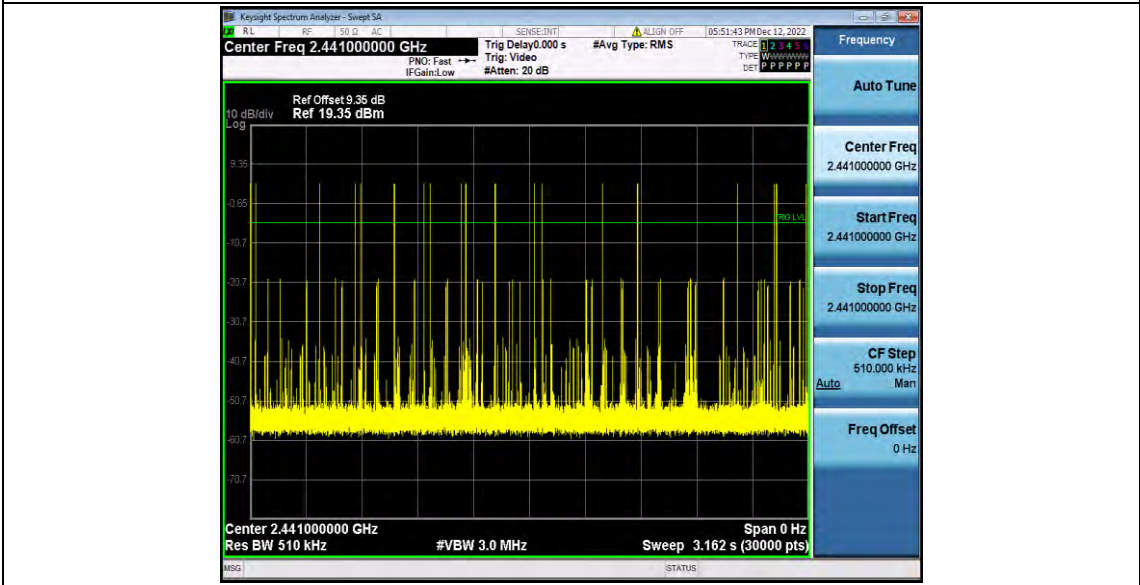
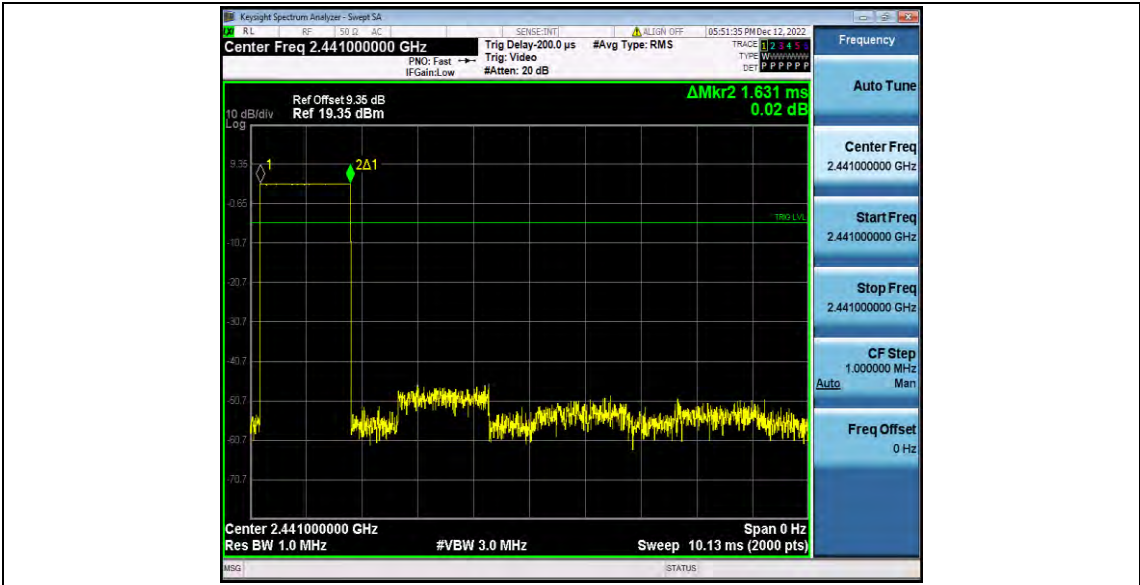
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	320	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.63	190	0.31	≤0.4	PASS
DH5	Ant1	Hop	2.88	90	0.259	≤0.4	PASS
2DH1	Ant1	Hop	0.39	330	0.127	≤0.4	PASS
2DH3	Ant1	Hop	1.63	150	0.245	≤0.4	PASS
2DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS

# Test Graphs

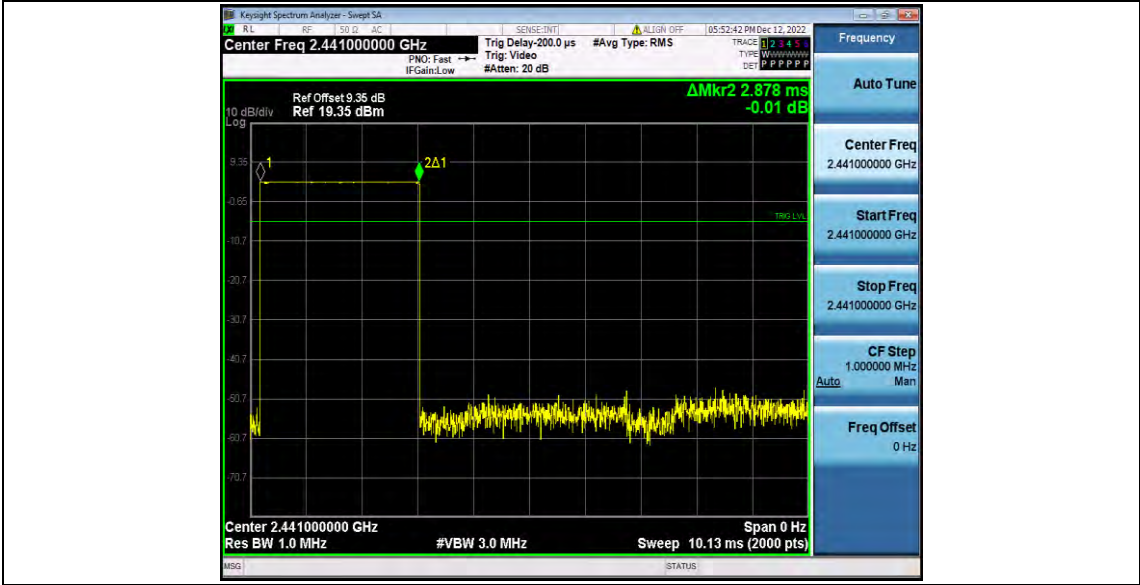
## DH1\_Ant1\_Hop



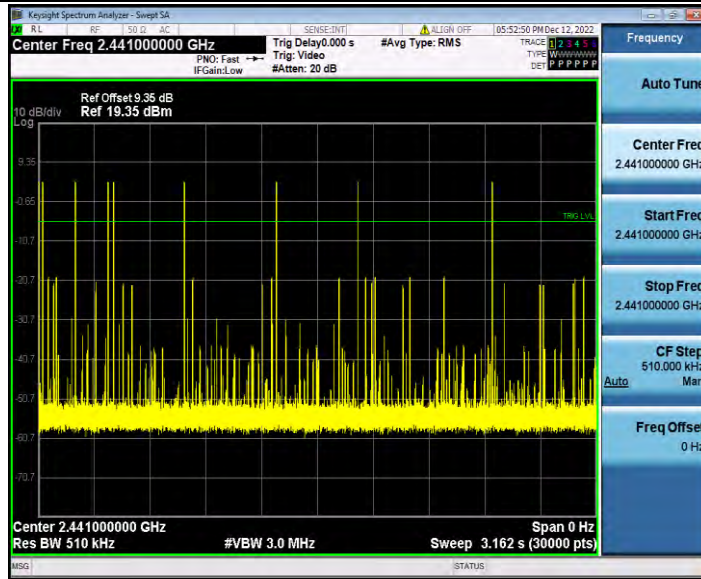
## DH3\_Ant1\_Hop



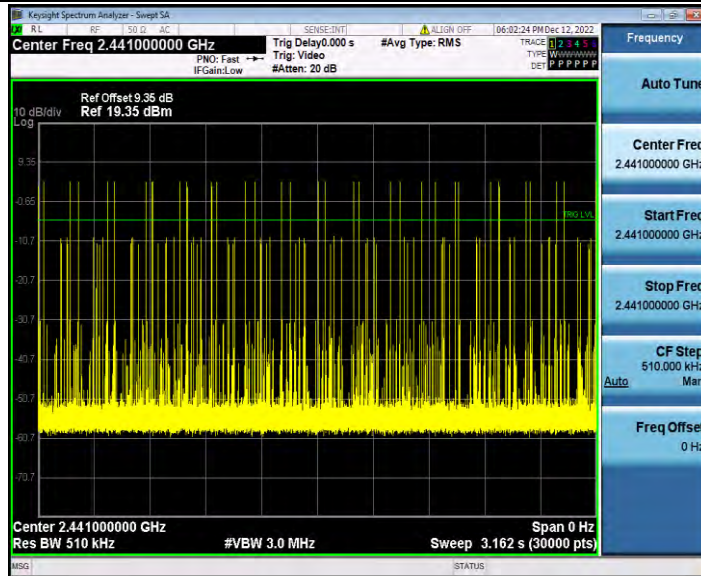
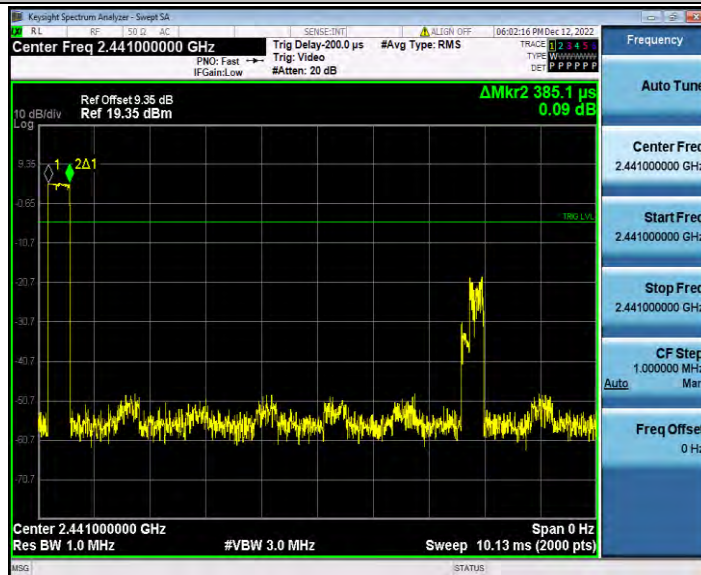
DH5\_Ant1\_Hop



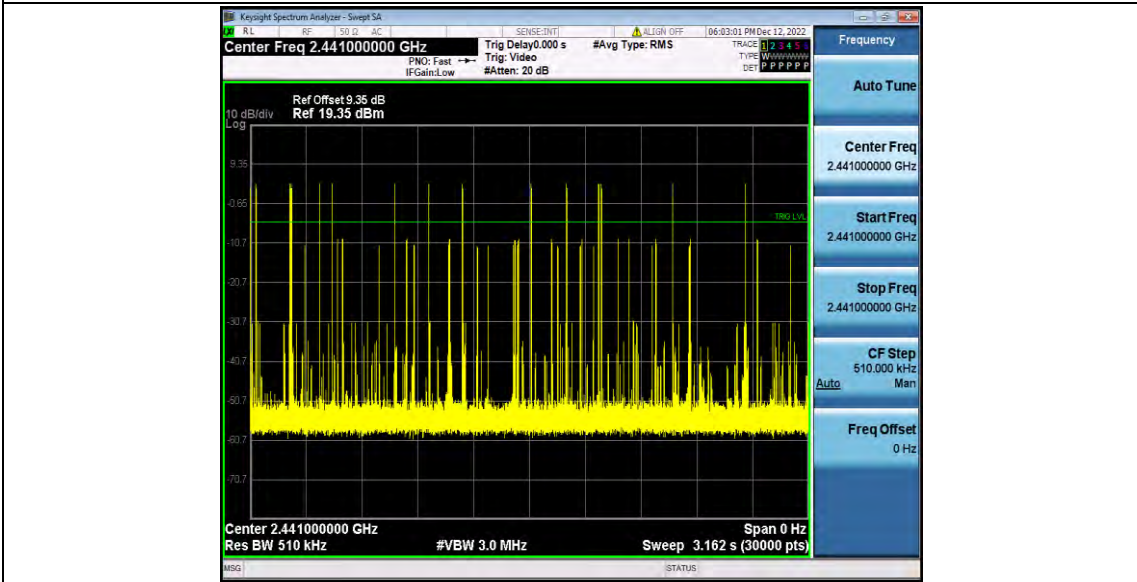




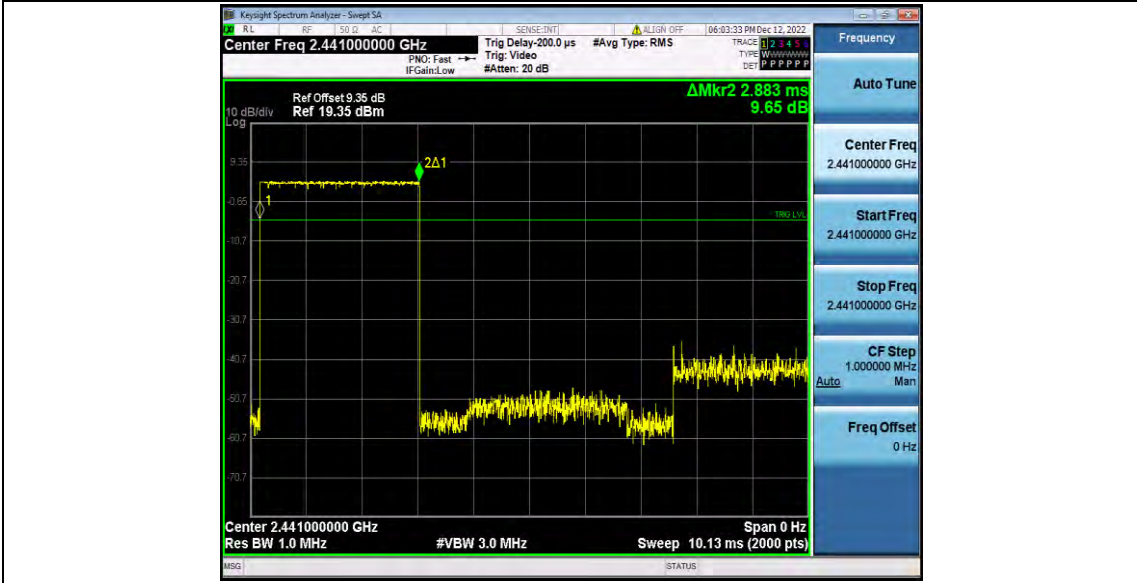
2DH1\_Ant1\_Hop

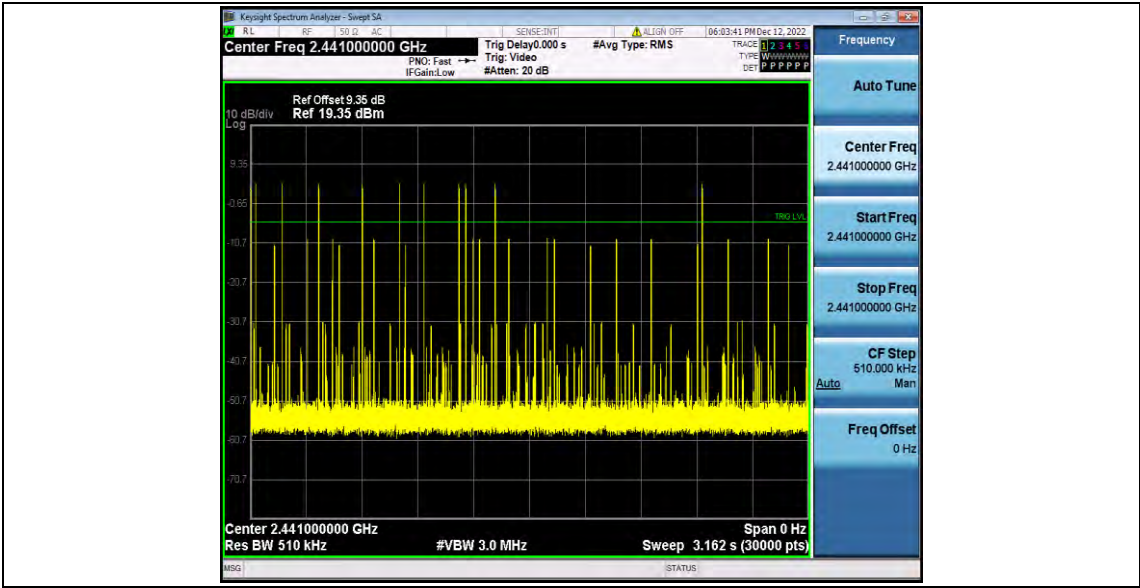


2DH3\_Ant1\_Hop



2DH5\_Ant1\_Hop





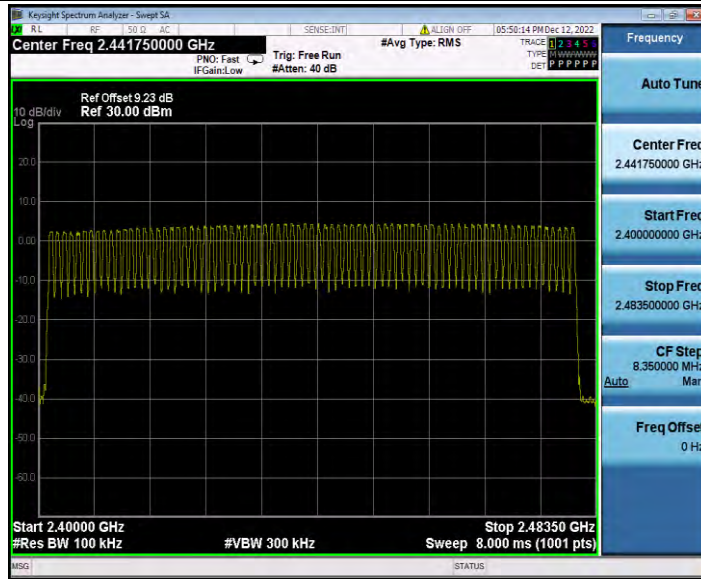
## Appendix A.6: Number of hopping channels

### Test Result

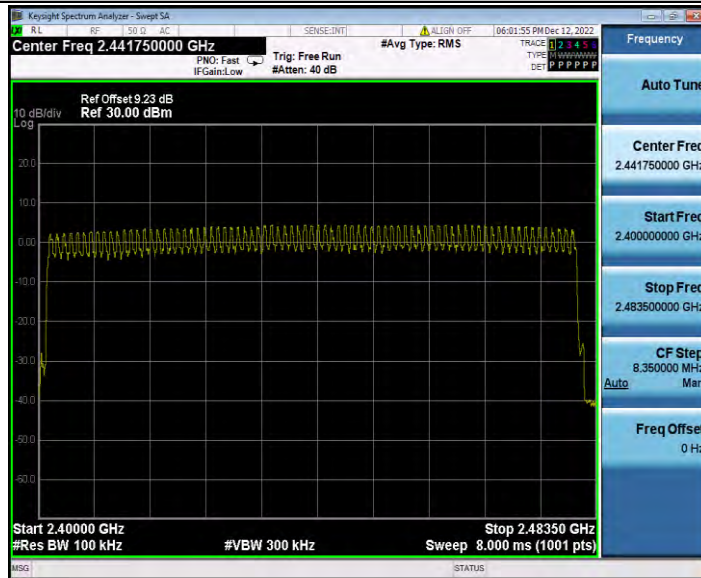
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS

# Test Graphs

## DH1\_Ant1\_Hop



## 2DH1\_Ant1\_Hop



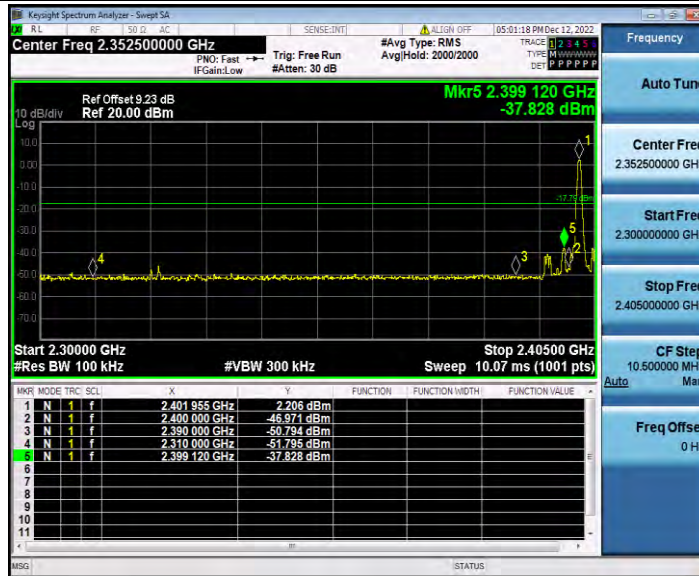
## Appendix A.7: Band edge measurements

### Test Result

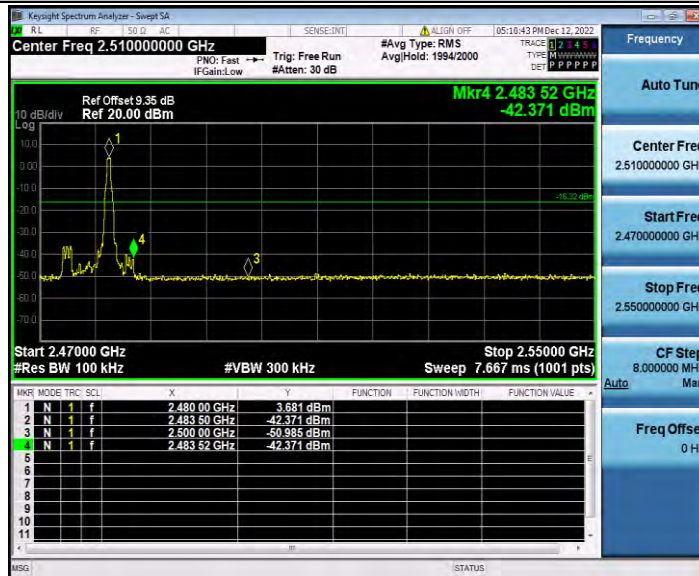
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	2.21	-37.83	≤-17.79	PASS
		High	2480	3.68	-42.37	≤-16.32	PASS
		Low	Hop_2402	2.24	-49.34	≤-17.76	PASS
		High	Hop_2480	4.05	-48.38	≤-15.96	PASS
2DH1	Ant1	Low	2402	2.29	-37.94	≤-17.71	PASS
		High	2480	3.61	-45.39	≤-16.39	PASS
		Low	Hop_2402	2.11	-49.14	≤-17.89	PASS
		High	Hop_2480	4.13	-44.19	≤-15.87	PASS

# Test Graphs

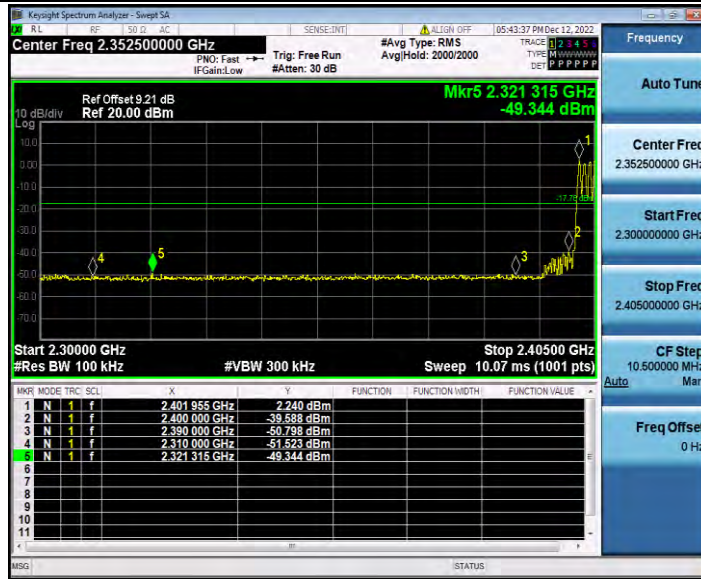
DH1\_Ant1\_Low\_2402



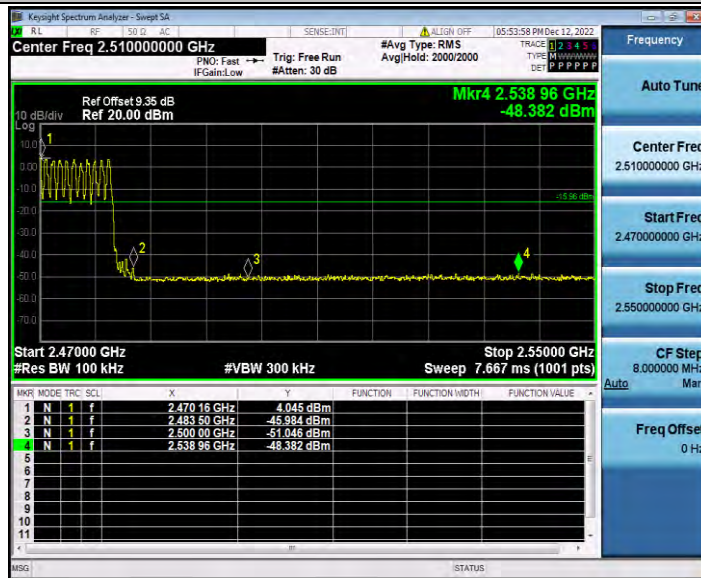
DH1\_Ant1\_High\_2480



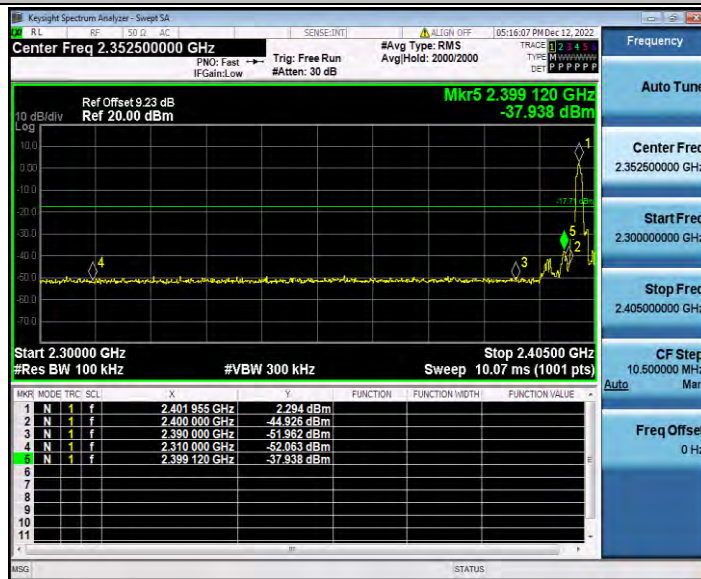
DH1\_Ant1\_Low\_Hop\_2402



DH1\_Ant1\_High\_Hop\_2480

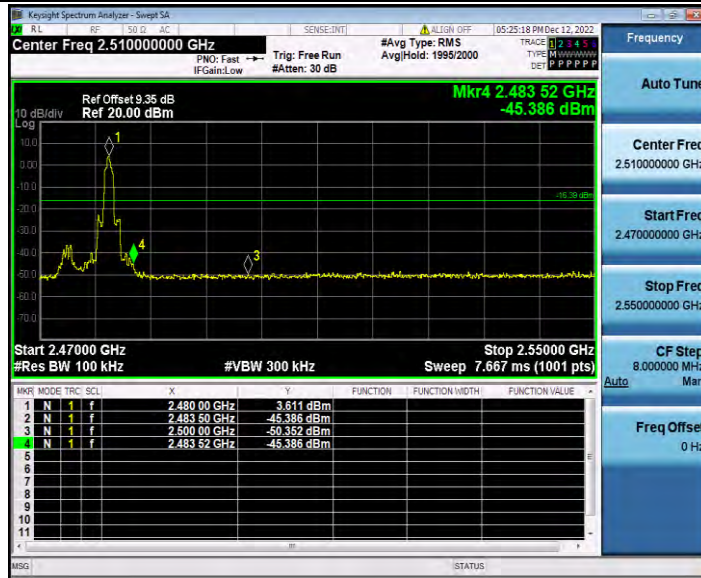


2DH1\_Ant1\_Low\_2402

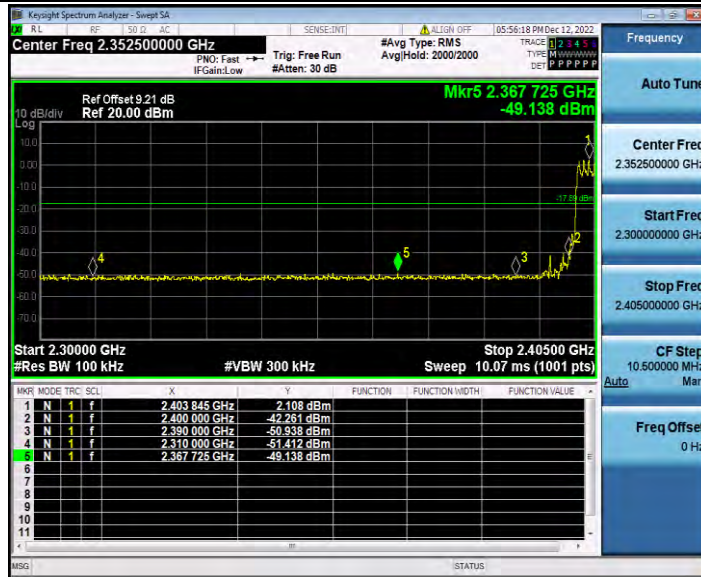




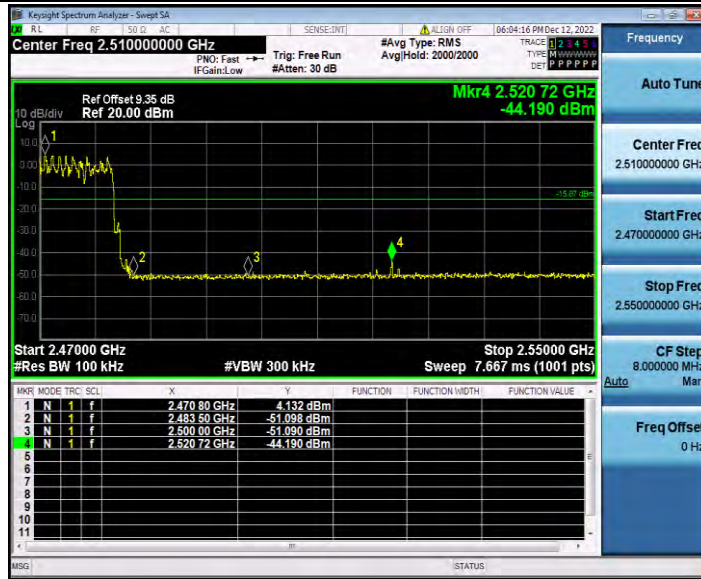
2DH1\_Ant1\_High\_2480



2DH1\_Ant1\_Low\_Hop\_2402



2DH1\_Ant1\_High\_Hop\_2480



## Appendix A.8: Conducted Spurious Emission

### Test Result

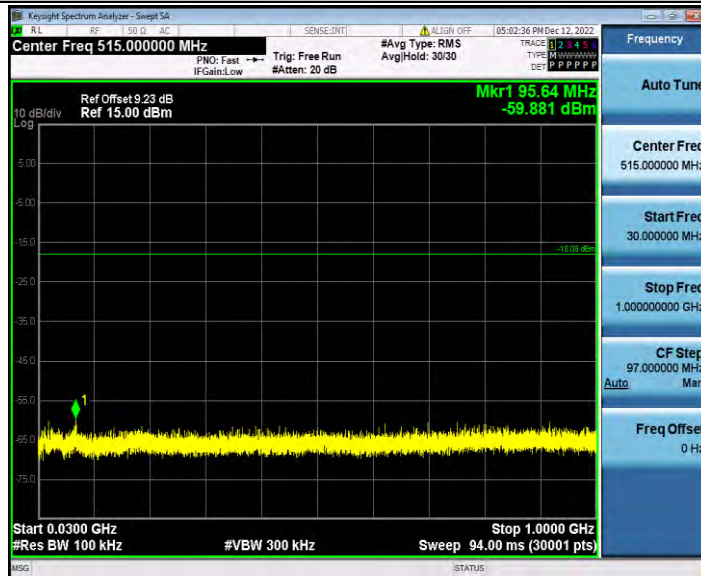
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	1.92	1.92	---	PASS
			30~1000	1.92	-59.88	≤-18.08	PASS
			1000~26500	1.92	-47.62	≤-18.08	PASS
		2441	Reference	4.20	4.20	---	PASS
			30~1000	4.20	-59.4	≤-15.8	PASS
			1000~26500	4.20	-46.74	≤-15.8	PASS
		2480	Reference	3.33	3.33	---	PASS
			30~1000	3.33	-60.35	≤-16.67	PASS
			1000~26500	3.33	-46.46	≤-16.67	PASS
2DH1	Ant1	2402	Reference	2.01	2.01	---	PASS
			30~1000	2.01	-59.83	≤-17.99	PASS
			1000~26500	2.01	-47.67	≤-17.99	PASS
		2441	Reference	4.05	4.05	---	PASS
			30~1000	4.05	-59.51	≤-15.95	PASS
			1000~26500	4.05	-47.65	≤-15.95	PASS
		2480	Reference	3.34	3.34	---	PASS
			30~1000	3.34	-59.64	≤-16.66	PASS
			1000~26500	3.34	-46.36	≤-16.66	PASS

# Test Graphs

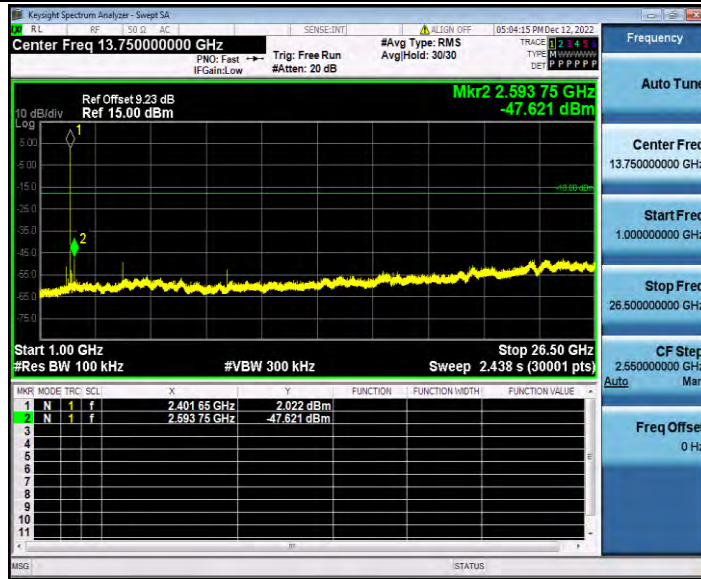
DH1\_Ant1\_2402\_0~Reference



DH1\_Ant1\_2402\_30~1000



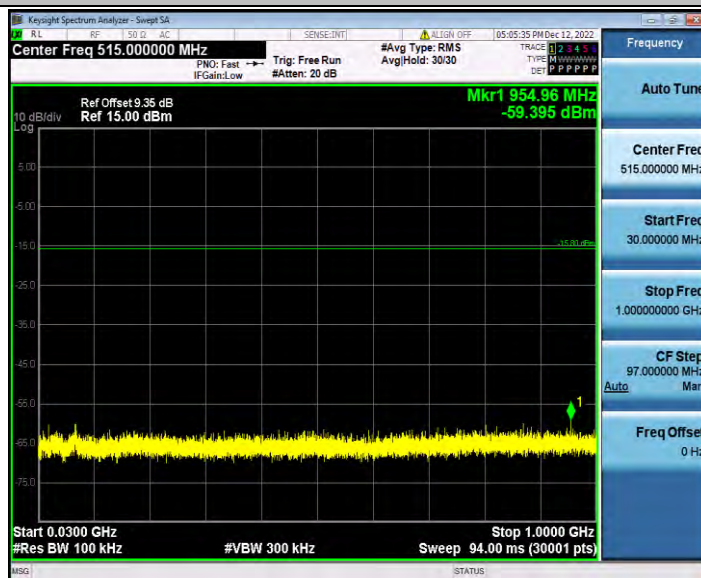
DH1\_Ant1\_2402\_1000~26500



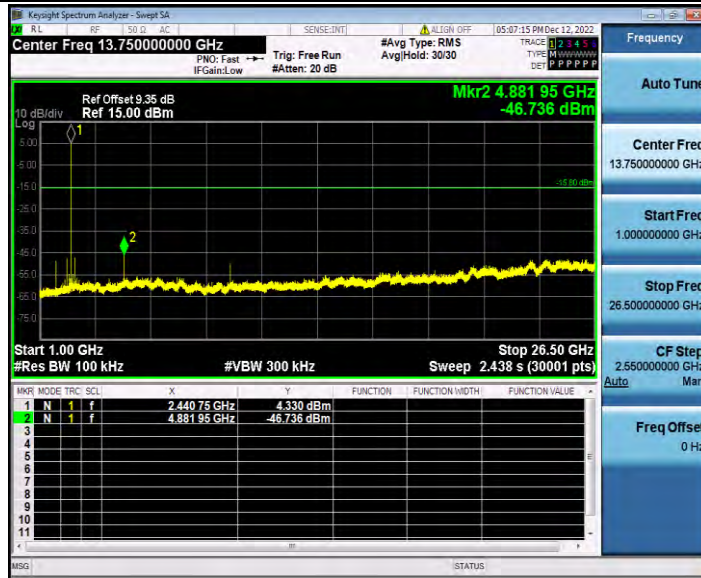
DH1\_Ant1\_2441\_0~Reference



DH1\_Ant1\_2441\_30~1000



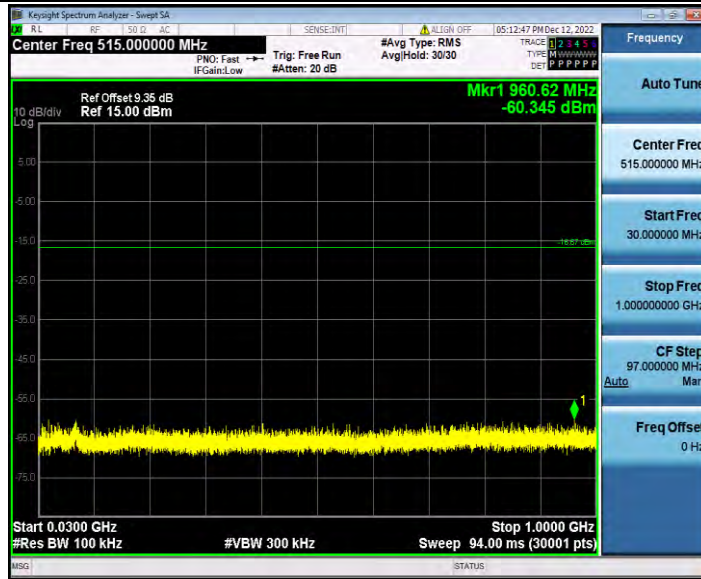
DH1\_Ant1\_2441\_1000~26500



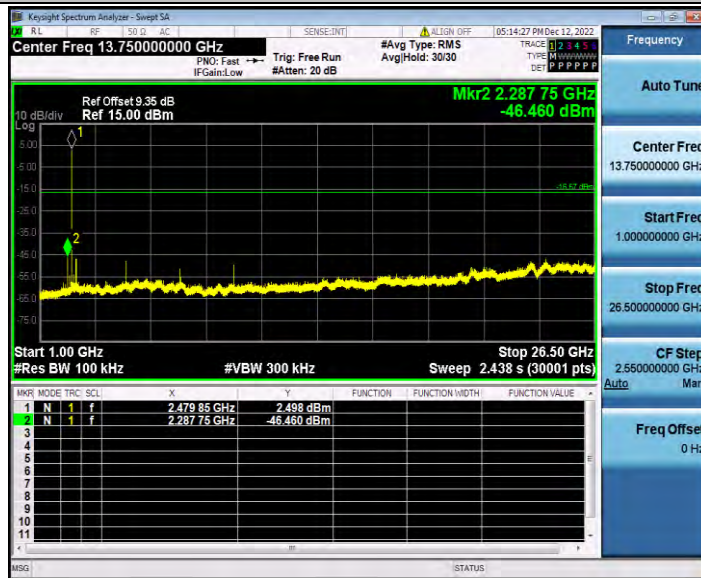
DH1\_Ant1\_2480\_0~Reference



DH1\_Ant1\_2480\_30~1000



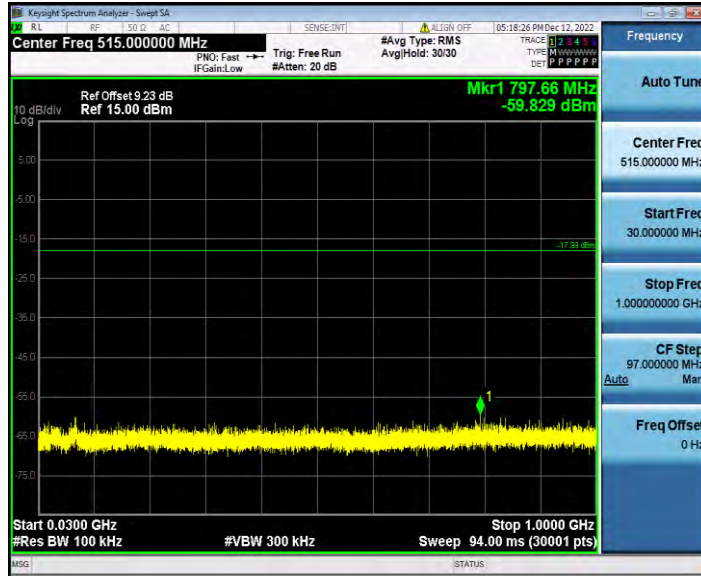
DH1\_Ant1\_2480\_1000~26500



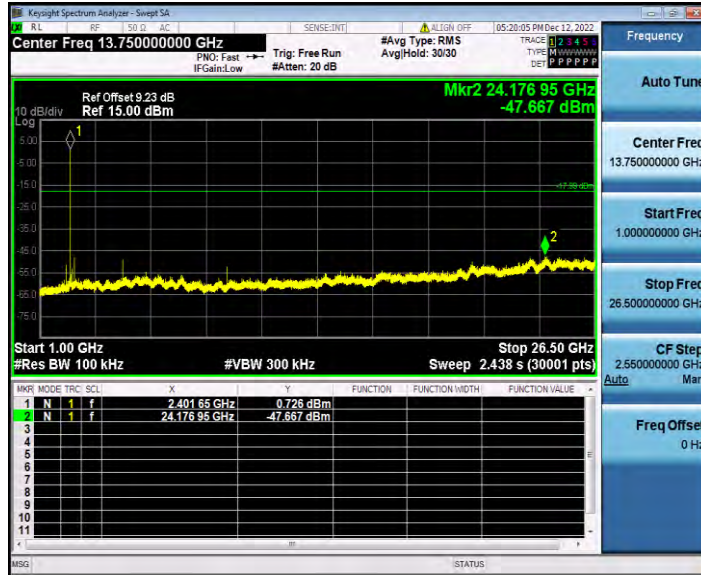
2DH1\_Ant1\_2402\_0~Reference



2DH1\_Ant1\_2402\_30~1000



2DH1\_Ant1\_2402\_1000~26500

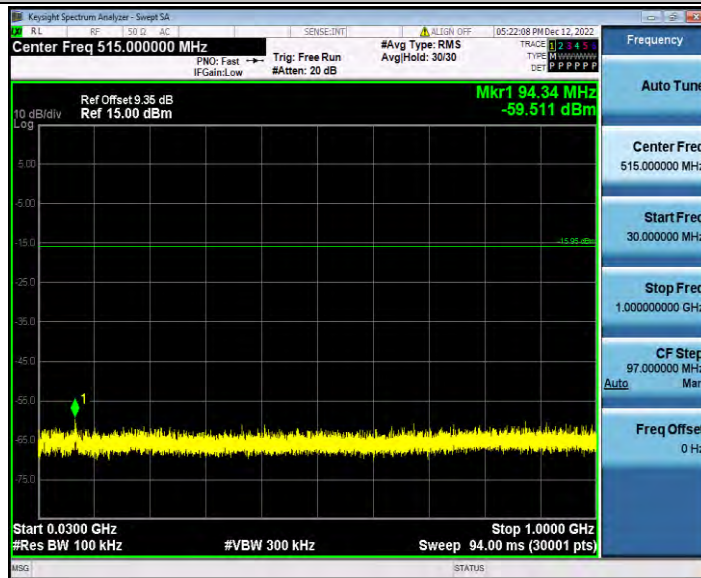


2DH1\_Ant1\_2441\_0~Reference





2DH1\_Ant1\_2441\_30~100



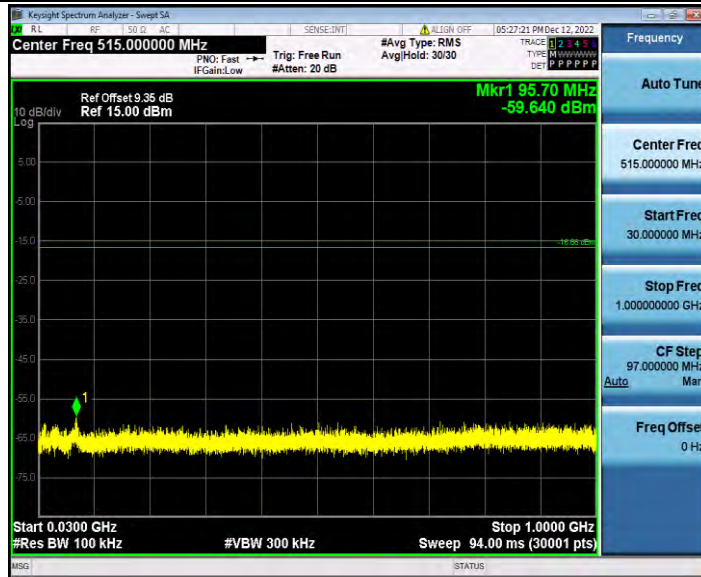
2DH1\_Ant1\_2441\_1000~26500



2DH1\_Ant1\_2480\_0~Reference



2DH1\_Ant1\_2480\_30~1000



2DH1\_Ant1\_2480\_1000~26500

