

Case No. : <u>GTS20251203023-1-01</u>
Ambient Condition: <u>21</u> °C, <u>52</u> %RH
According Standard: ■Part15C
Test Date: <u>2026.1.22-2026.3.12</u> Test Engineer: <u>Evan ouyang</u>

AppendixA.1: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.885	2401.547	2402.432	---	---
		2441	0.912	2440.550	2441.462	---	---
		2480	0.933	2479.535	2480.468	---	---
2DH1	Ant1	2402	1.230	2401.382	2402.612	---	---
		2441	1.254	2440.364	2441.618	---	---
		2480	1.263	2479.367	2480.630	---	---
3DH1	Ant1	2402	1.230	2401.391	2402.621	---	---
		2441	1.221	2440.397	2441.618	---	---
		2480	1.224	2479.397	2480.621	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



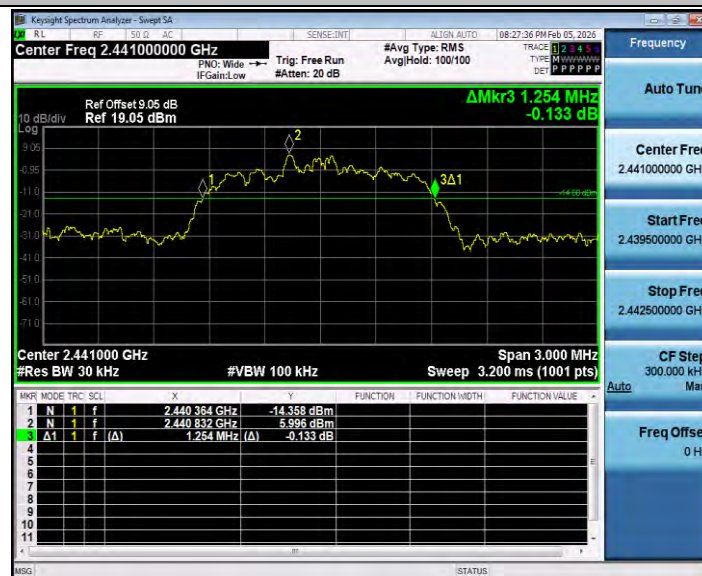
DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441

Keysight Spectrum Analyzer - Sweep SA

R/L RF SFO 50.0 AC SENSE INT ALIGN AUTO 08:56:37 PM Feb 05, 2026

Center Freq 2.480000000 GHz

PNO: Wide Trig: Free Run #Avg Type: RMS Avg/Hold: 100/100 TRACE 1 2 3 4 5
IFGain: Low #Atten: 20 dB TYPE M WWWWWW DET P P P P P

Ref Offset 9.05 dB **ΔMkr3 1.224 MHz**
Ref 19.05 dBm **-0.680 dB**

10 dB/div
-9.00
-0.05
-11.0
-21.0
-31.0
-41.0
-51.0
-61.0
-71.0

Center 2.480000 GHz **Span 3.000 MHz**
#Res BW 30 kHz **#VBW 100 kHz** **Sweep 3.200 ms (1001 pts)**

MKR	MODE	TCL	F	A	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f	2.478 397 GHz	-13.14 dBm			
2	N	f	2.480 003 GHz	-6.872 dBm			
3	Δ	f (Δ)	1.224 MHz (Δ)	-0.680 dB			
4							
5							
6							
7							
8							
9							
10							
11							

MSG STATUS

Frequency

Auto Tune

Center Freq
2.480000000 GHz

Start Freq
2.478500000 GHz

Stop Freq
2.481500000 GHz

CF Step
300.000 kHz
Man

Freq Offset
0 Hz

AppendixA.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.84524	2401.5773	2402.4225	---	---
		2441	0.83358	2440.5818	2441.4154	---	---
		2480	0.85008	2479.5773	2480.4274	---	---
2DH1	Ant1	2402	1.1585	2401.4176	2402.5761	---	---
		2441	1.1632	2440.4121	2441.5753	---	---
		2480	1.1699	2479.4066	2480.5765	---	---
3DH1	Ant1	2402	1.1459	2401.4367	2402.5826	---	---
		2441	1.1465	2440.4364	2441.5829	---	---
		2480	1.1483	2479.4338	2480.5821	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



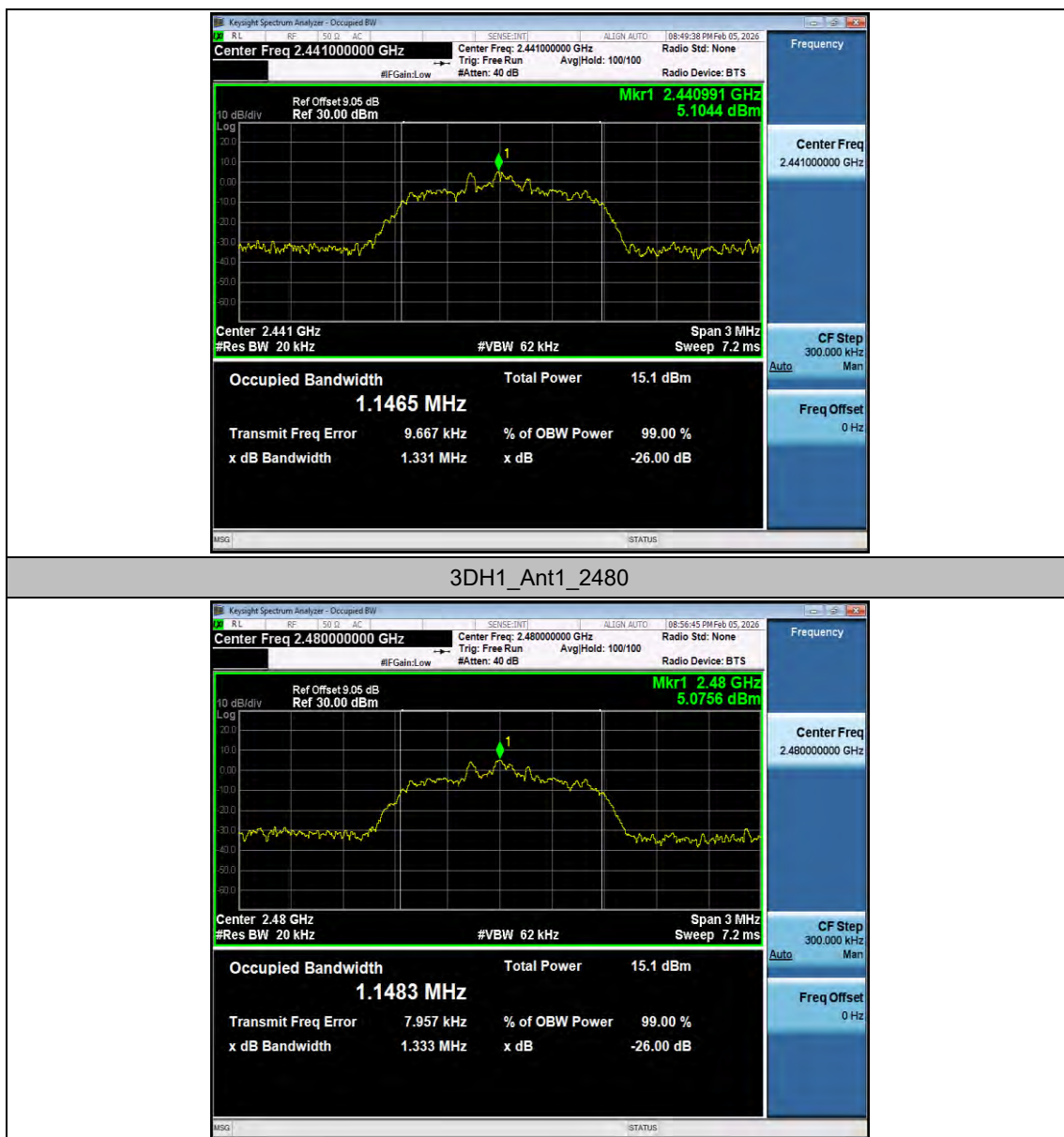
2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



AppendixA.3: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	8.19	≤30.00	PASS
		2441	8.57	≤30.00	PASS
		2480	8.48	≤30.00	PASS
2DH1	Ant1	2402	10.52	≤20.97	PASS
		2441	10.95	≤20.97	PASS
		2480	10.78	≤20.97	PASS
3DH1	Ant1	2402	10.63	≤20.97	PASS
		2441	11.14	≤20.97	PASS
		2480	10.97	≤20.97	PASS

AppendixA.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	1.318	≥ 0.933	PASS
		Hop_2441	1	≥ 0.933	PASS
		Hop_2480	1.002	≥ 0.933	PASS
2DH1	Ant1	Hop_2402	0.998	≥ 0.842	PASS
		Hop_2441	1.004	≥ 0.842	PASS
		Hop_2480	1.01	≥ 0.842	PASS
3DH1	Ant1	Hop_2402	1.006	≥ 0.820	PASS
		Hop_2441	0.994	≥ 0.820	PASS
		Hop_2480	0.996	≥ 0.820	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



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441

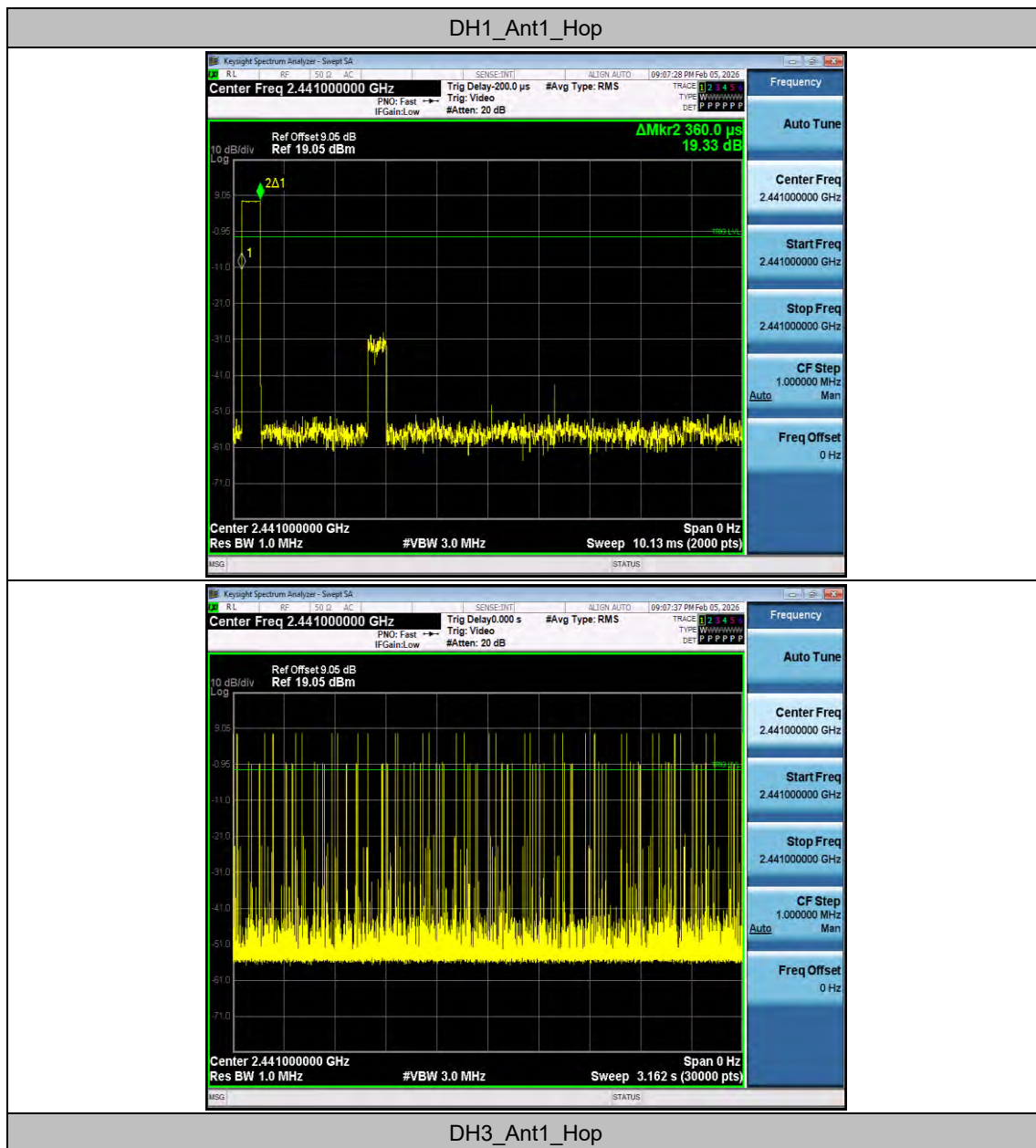


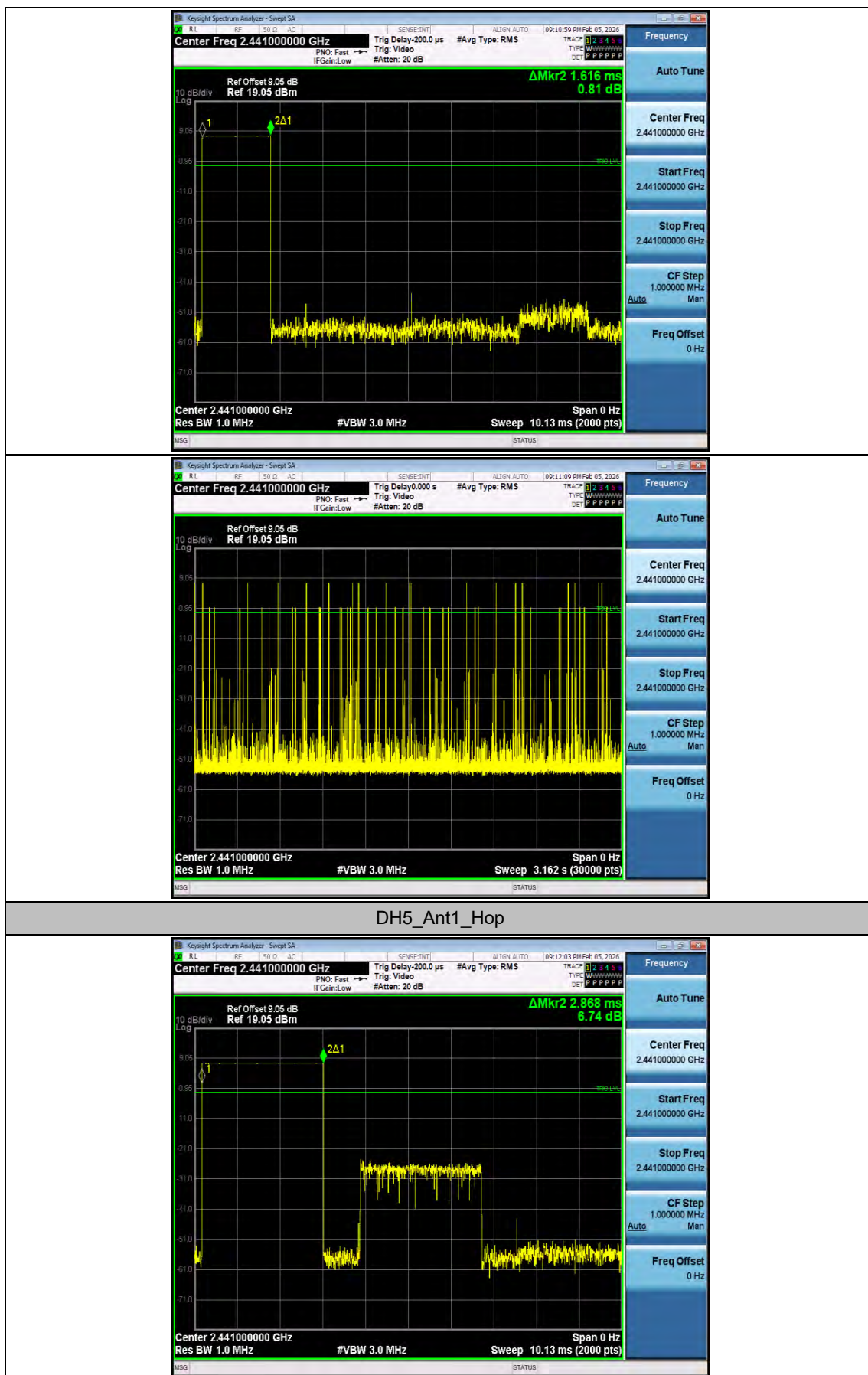
AppendixA.5: Time of occupancy

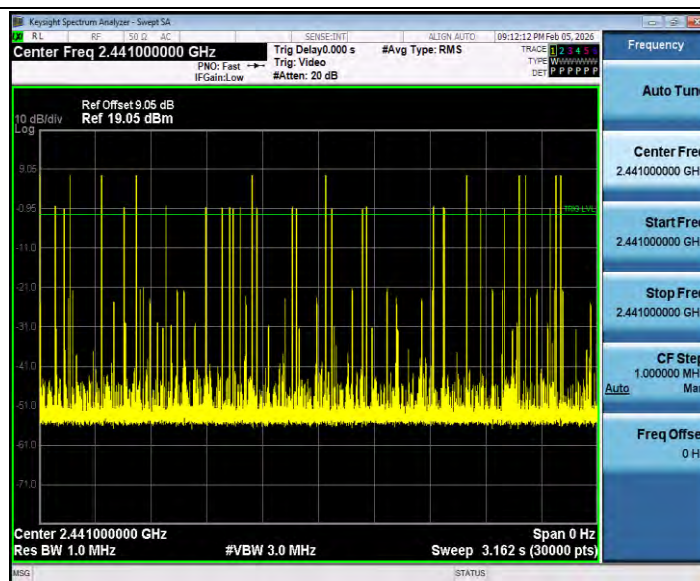
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.360	330	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.616	190	0.307	≤0.4	PASS
DH5	Ant1	Hop	2.868	110	0.315	≤0.4	PASS
2DH1	Ant1	Hop	0.370	320	0.118	≤0.4	PASS
2DH3	Ant1	Hop	1.621	150	0.243	≤0.4	PASS
2DH5	Ant1	Hop	2.868	100	0.287	≤0.4	PASS
3DH1	Ant1	Hop	0.370	330	0.122	≤0.4	PASS
3DH3	Ant1	Hop	1.621	150	0.243	≤0.4	PASS
3DH5	Ant1	Hop	2.873	90	0.259	≤0.4	PASS

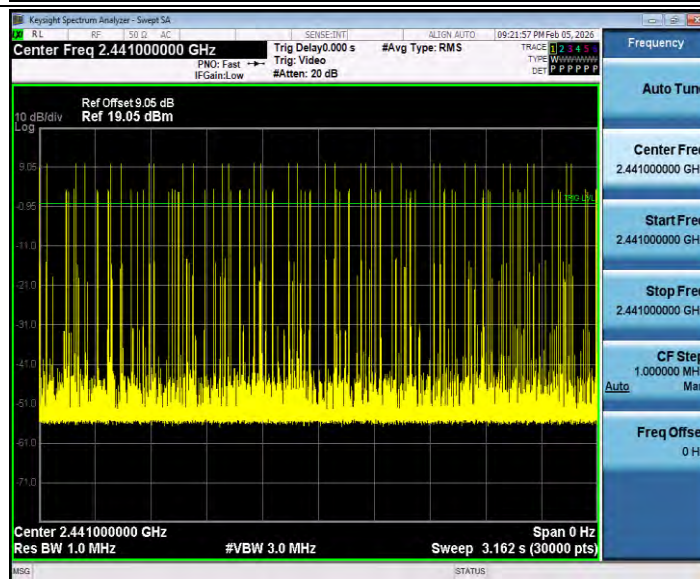
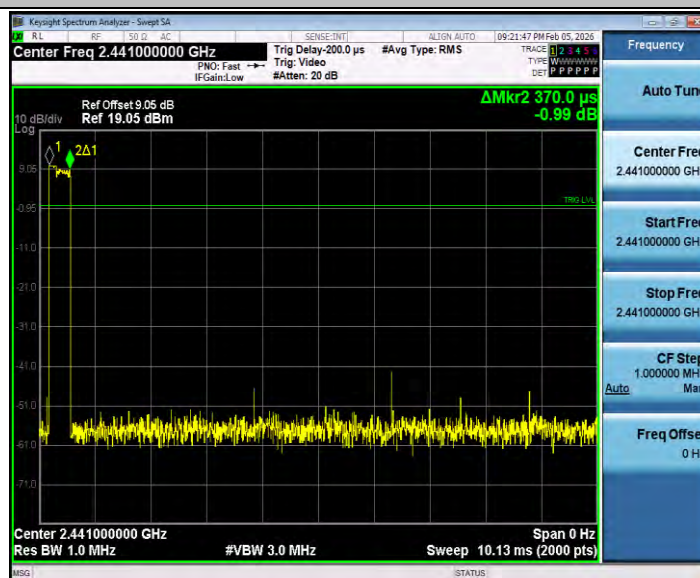
Test Graphs



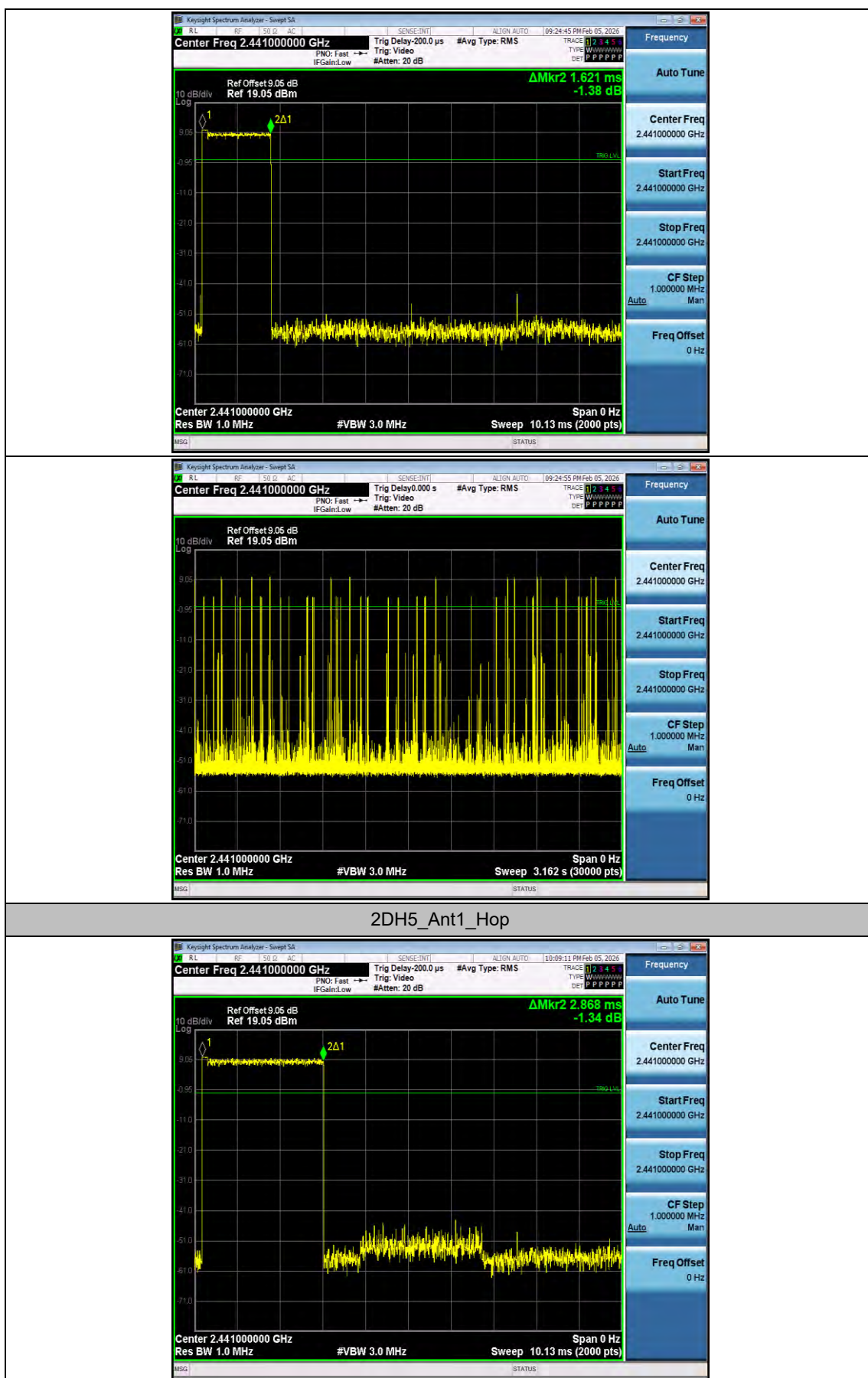


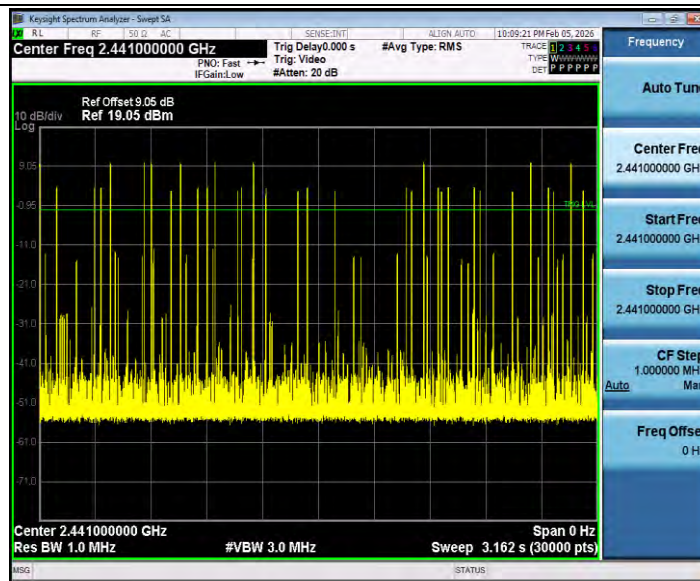


2DH1_Ant1_Hop

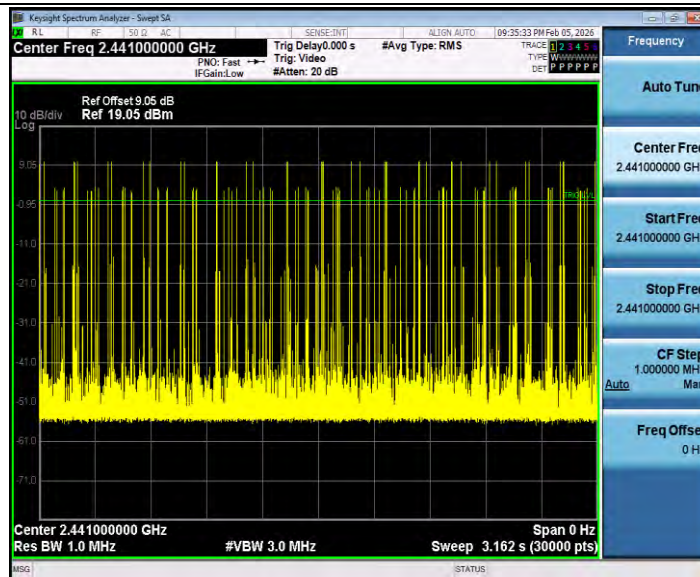
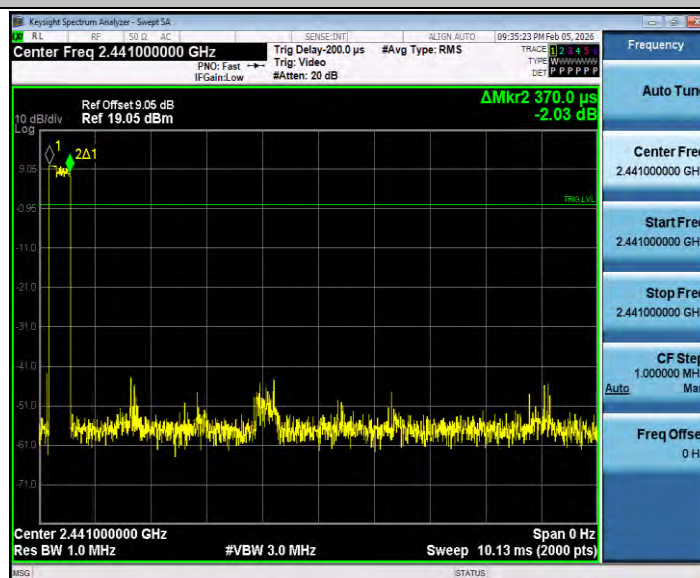


2DH3_Ant1_Hop

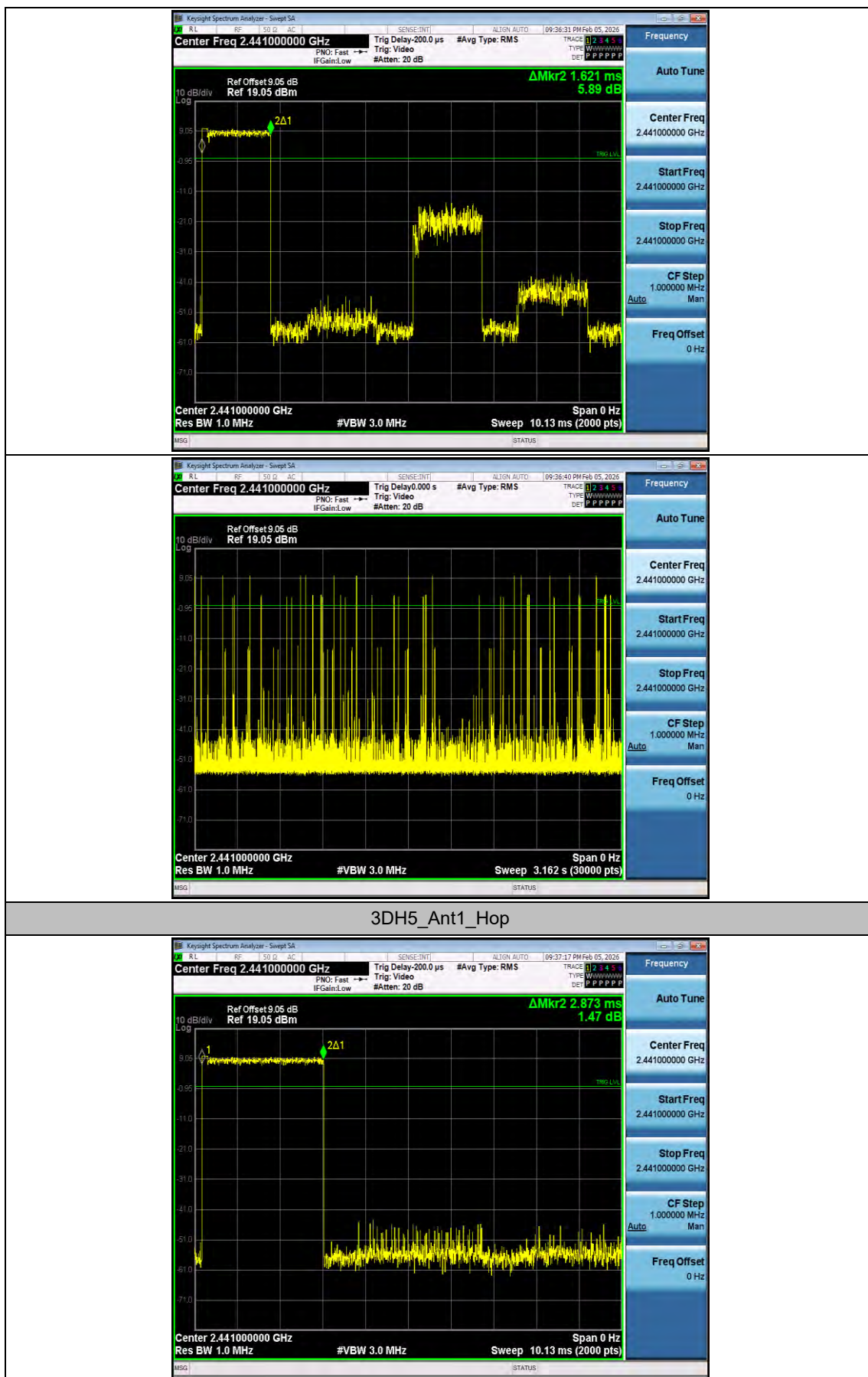


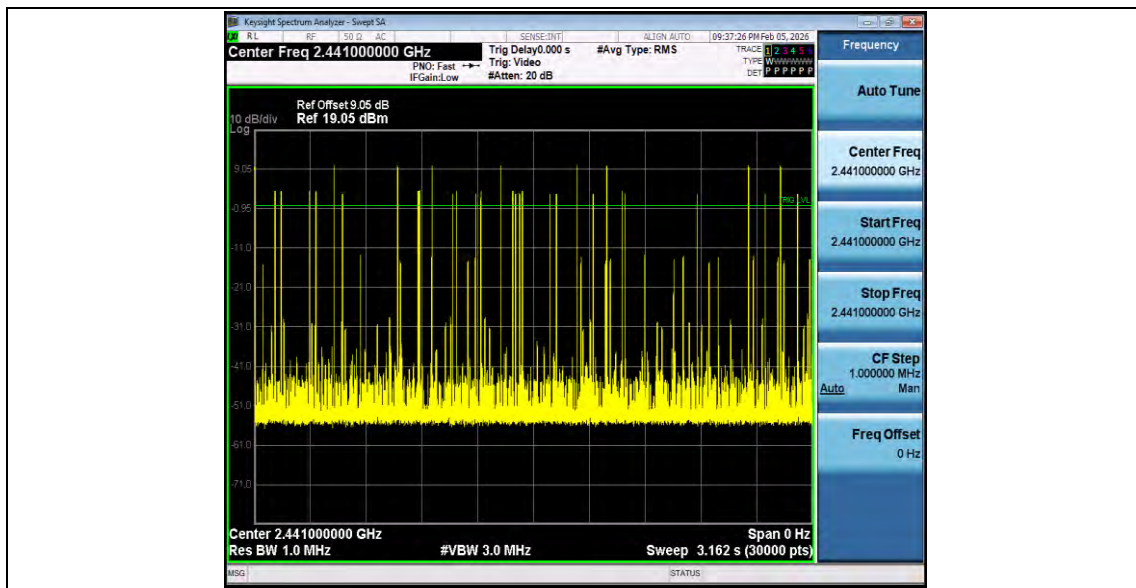


3DH1_Ant1_Hop



3DH3_Ant1_Hop



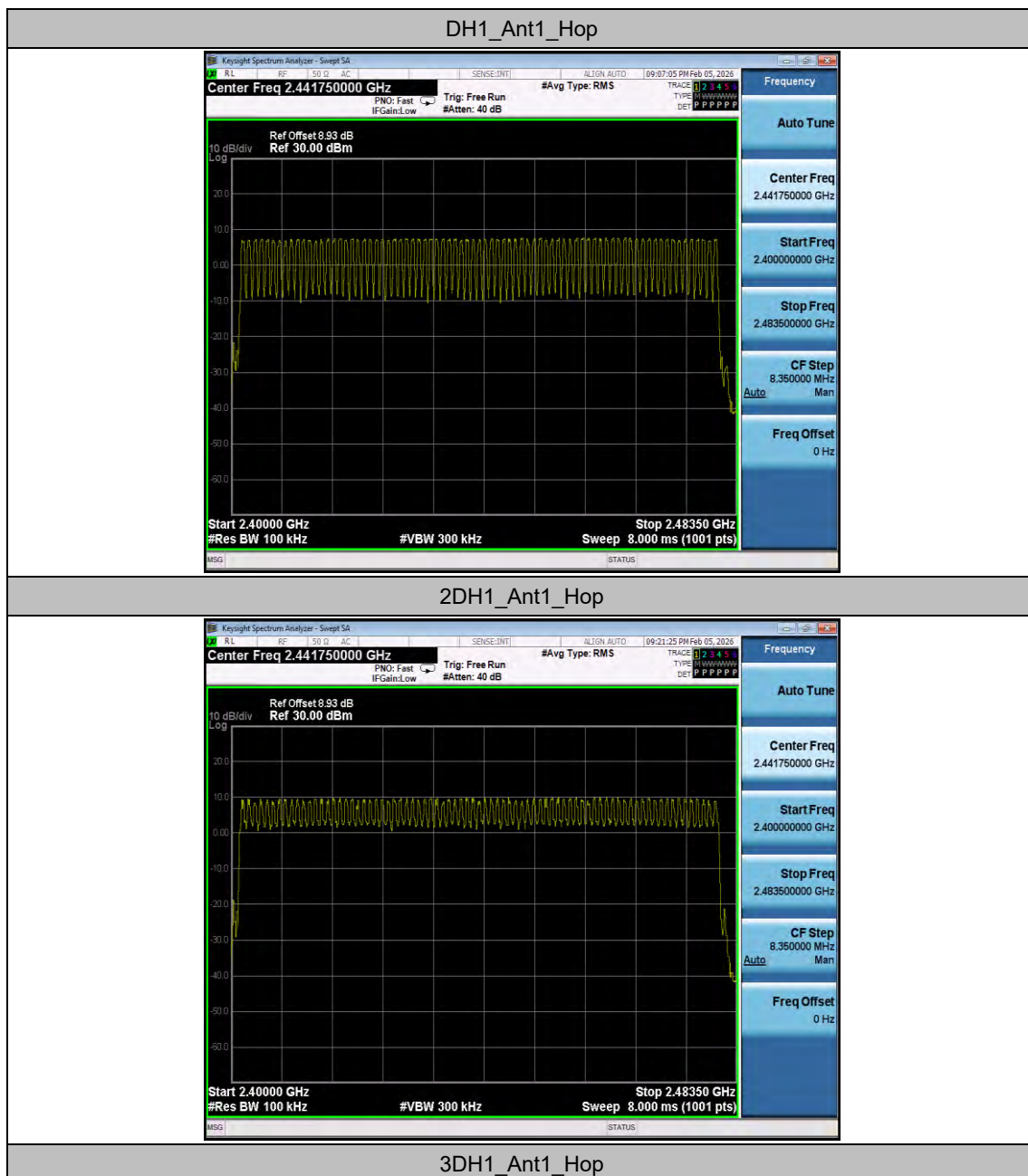


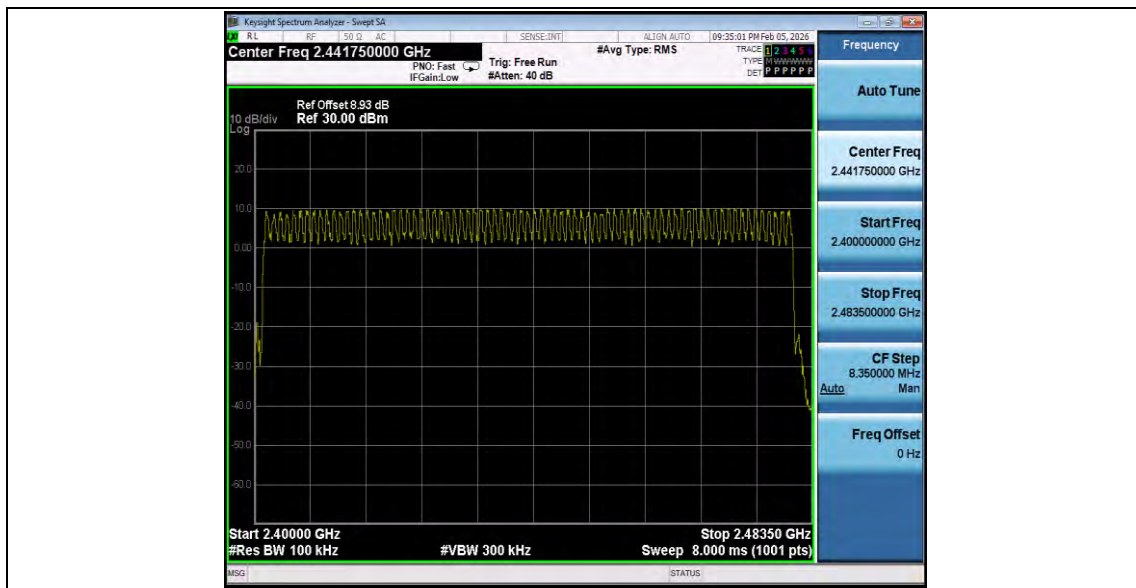
AppendixA.6: Number of hopping channels

Test Result

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

Test Graphs



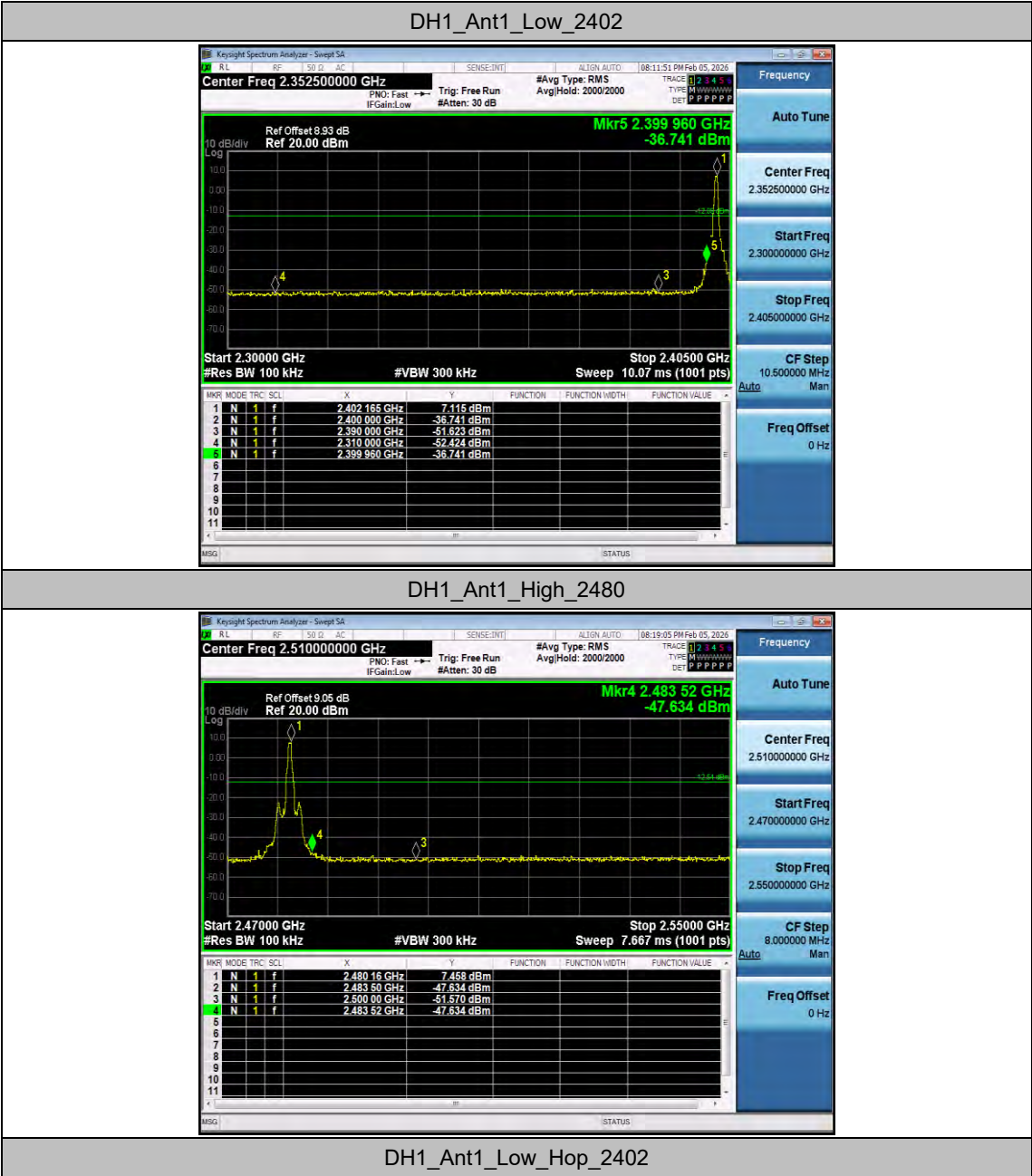


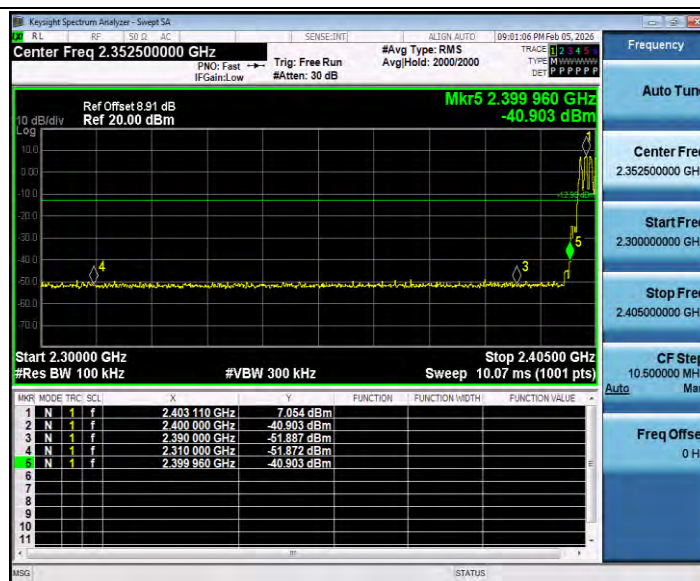
Appendix A.7: Band edge measurements

Test Result

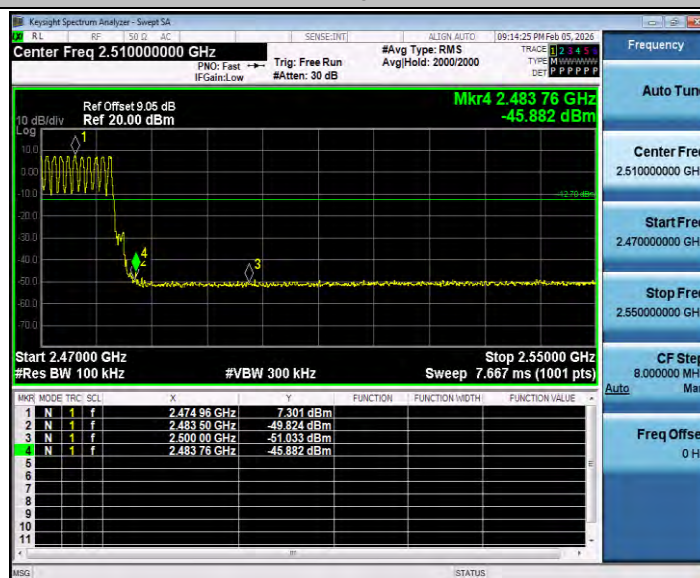
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	7.12	-36.74	≤ -12.89	PASS
		High	2480	7.46	-47.63	≤ -12.54	PASS
		Low	Hop_2402	7.05	-40.9	≤ -12.95	PASS
		High	Hop_2480	7.30	-45.88	≤ -12.7	PASS
2DH1	Ant1	Low	2402	9.39	-32.54	≤ -10.61	PASS
		High	2480	9.76	-45.17	≤ -10.25	PASS
		Low	Hop_2402	8.82	-35.17	≤ -11.18	PASS
		High	Hop_2480	9.99	-48.56	≤ -10.01	PASS
3DH1	Ant1	Low	2402	9.42	-33.15	≤ -10.58	PASS
		High	2480	9.80	-41.58	≤ -10.2	PASS
		Low	Hop_2402	9.37	-36.3	≤ -10.63	PASS
		High	Hop_2480	9.52	-45.41	≤ -10.49	PASS

Test Graphs

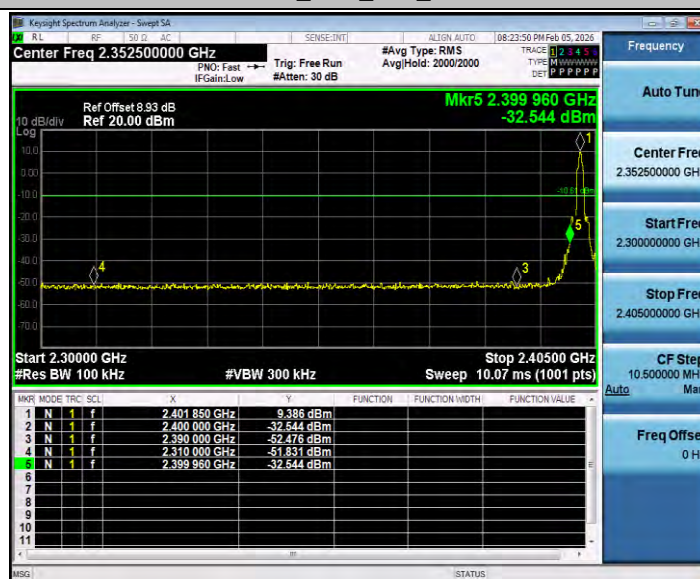




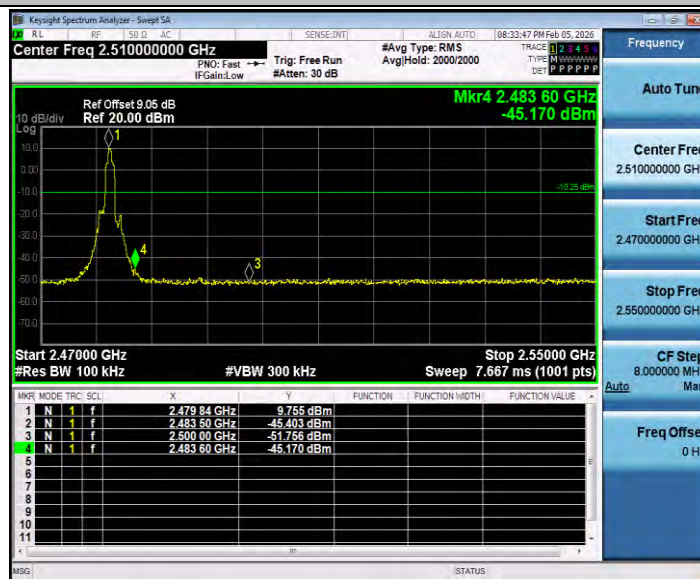
DH1_Ant1_High_Hop_2480



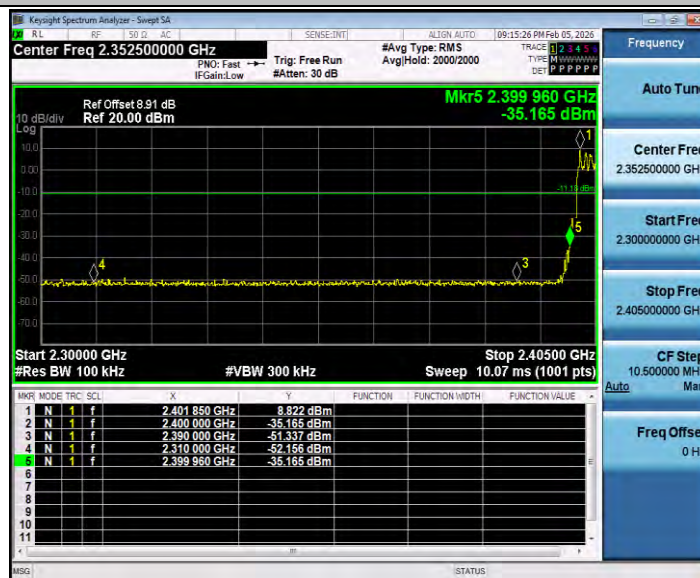
2DH1_Ant1_Low_2402



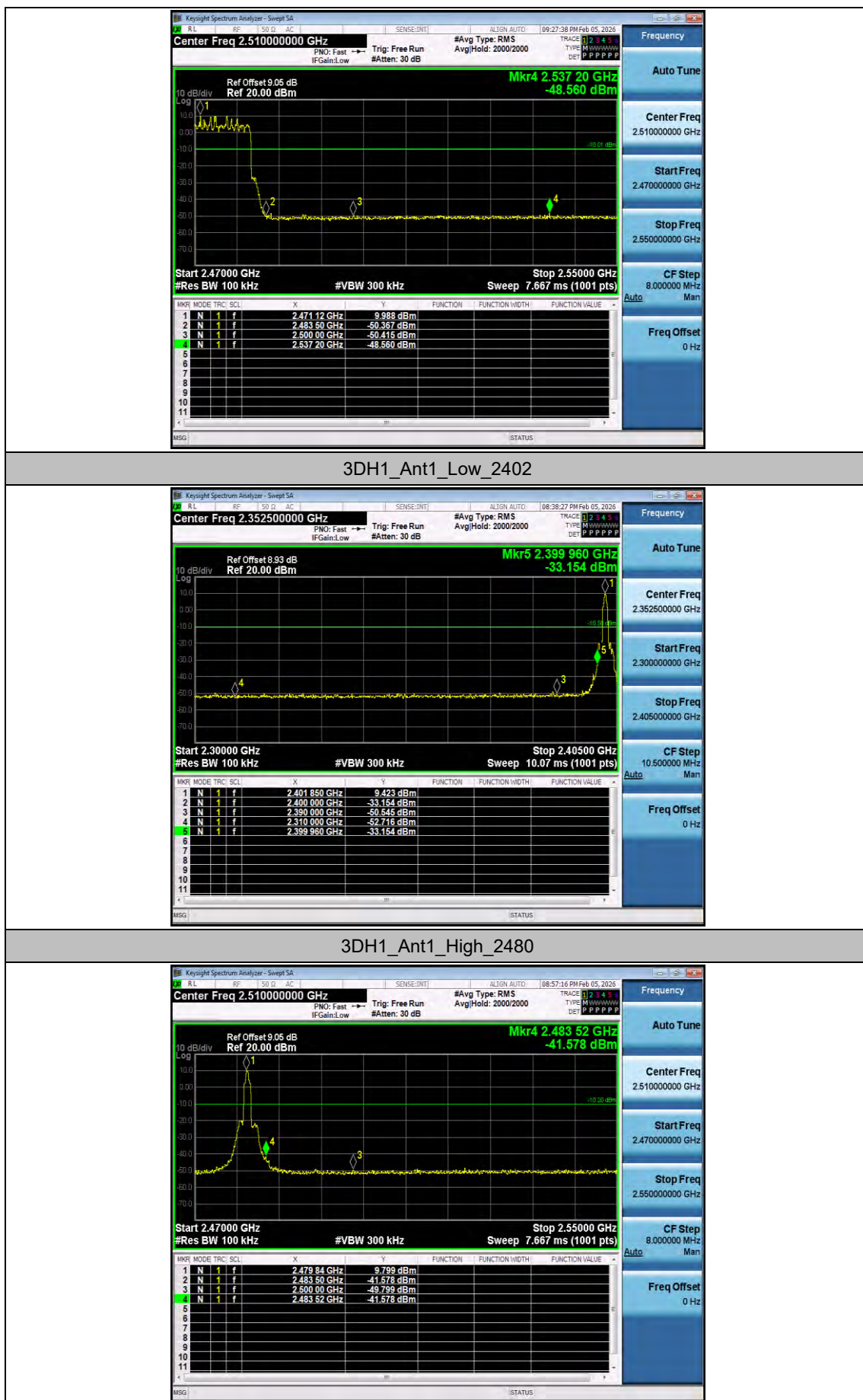
2DH1_Ant1_High_2480



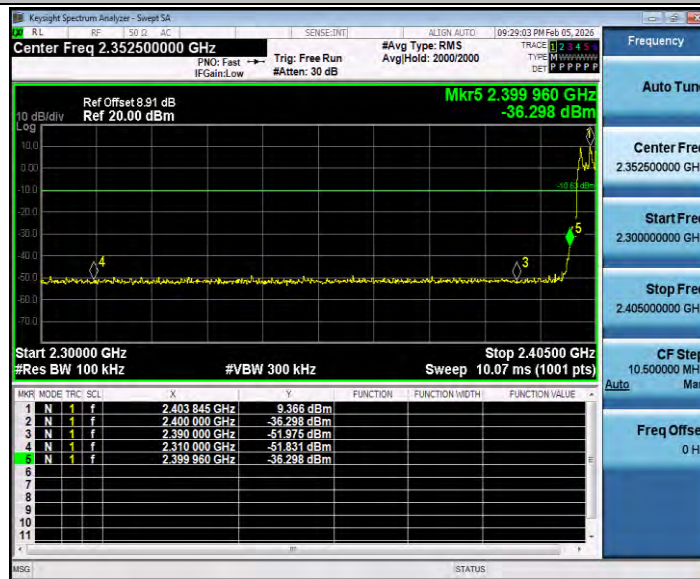
2DH1_Ant1_Low_Hop_2402



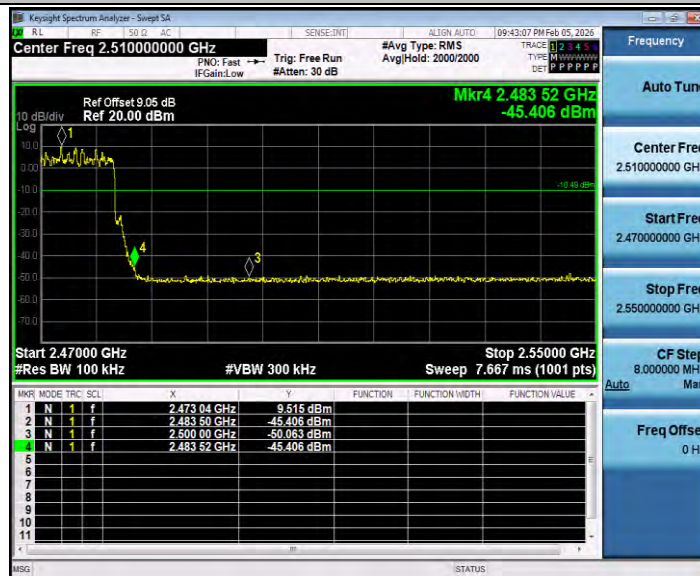
2DH1_Ant1_High_Hop_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

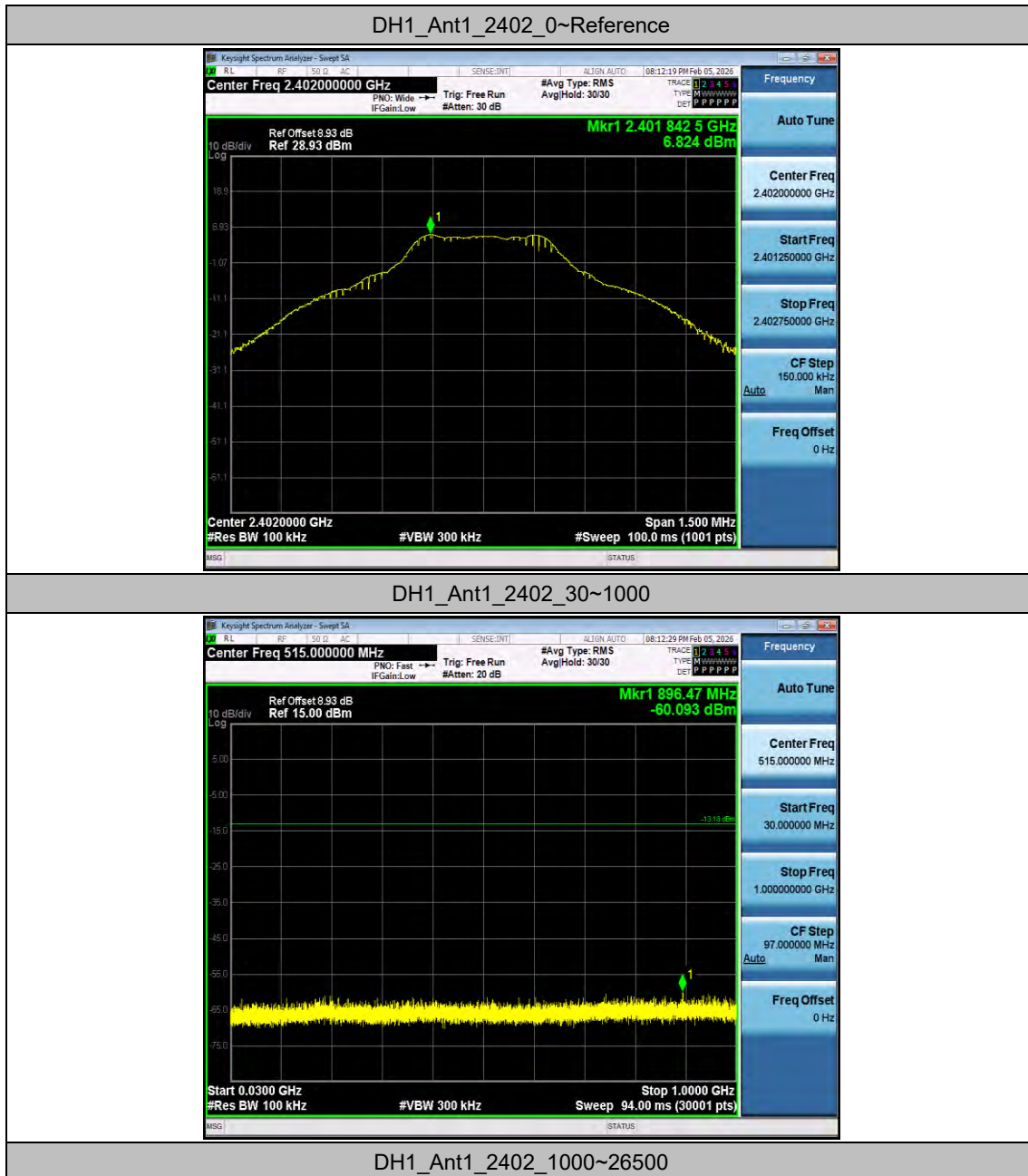


Appendix A.8: Conducted Spurious Emission

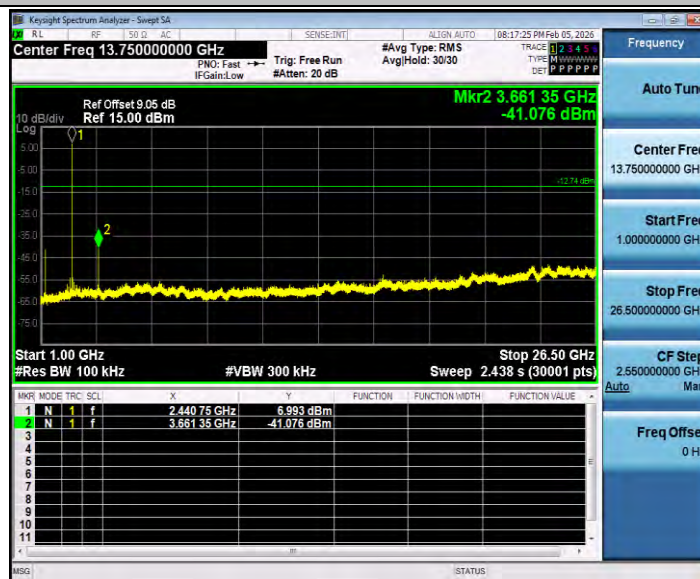
Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	6.82	6.82	---	PASS
			30~1000	6.82	-60.09	≤-13.18	PASS
			1000~26500	6.82	-40.16	≤-13.18	PASS
		2441	Reference	7.26	7.26	---	PASS
			30~1000	7.26	-60.24	≤-12.74	PASS
			1000~26500	7.26	-41.08	≤-12.74	PASS
		2480	Reference	7.19	7.19	---	PASS
			30~1000	7.19	-60.61	≤-12.81	PASS
			1000~26500	7.19	-40.69	≤-12.81	PASS
2DH1	Ant1	2402	Reference	9.24	9.24	---	PASS
			30~1000	9.24	-60.51	≤-10.76	PASS
			1000~26500	9.24	-36.86	≤-10.76	PASS
		2441	Reference	9.71	9.71	---	PASS
			30~1000	9.71	-59.74	≤-10.29	PASS
			1000~26500	9.71	-37.56	≤-10.29	PASS
		2480	Reference	9.57	9.57	---	PASS
			30~1000	9.57	-60.24	≤-10.43	PASS
			1000~26500	9.57	-38.96	≤-10.43	PASS
3DH1	Ant1	2402	Reference	9.36	9.36	---	PASS
			30~1000	9.36	-60.38	≤-10.64	PASS
			1000~26500	9.36	-39.67	≤-10.64	PASS
		2441	Reference	9.83	9.83	---	PASS
			30~1000	9.83	-60.66	≤-10.17	PASS
			1000~26500	9.83	-40.38	≤-10.17	PASS
		2480	Reference	9.72	9.72	---	PASS
			30~1000	9.72	-59.75	≤-10.28	PASS
			1000~26500	9.72	-38.37	≤-10.28	PASS

Test Graphs



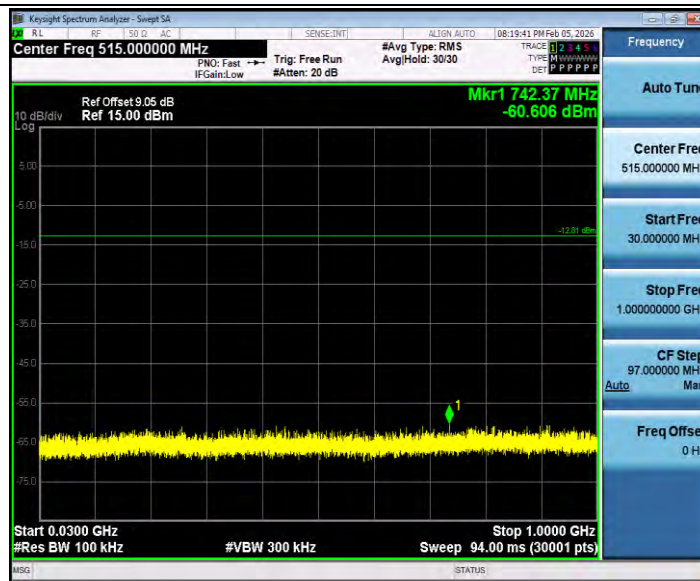
DH1_Ant1_2441_1000~26500



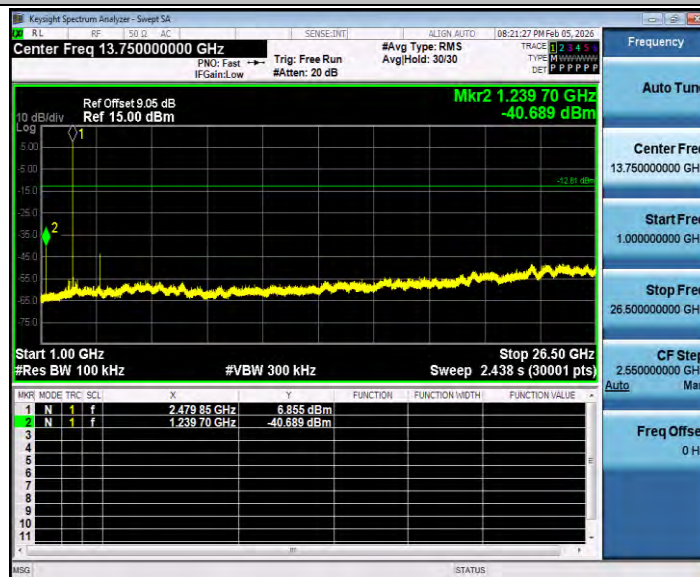
DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000

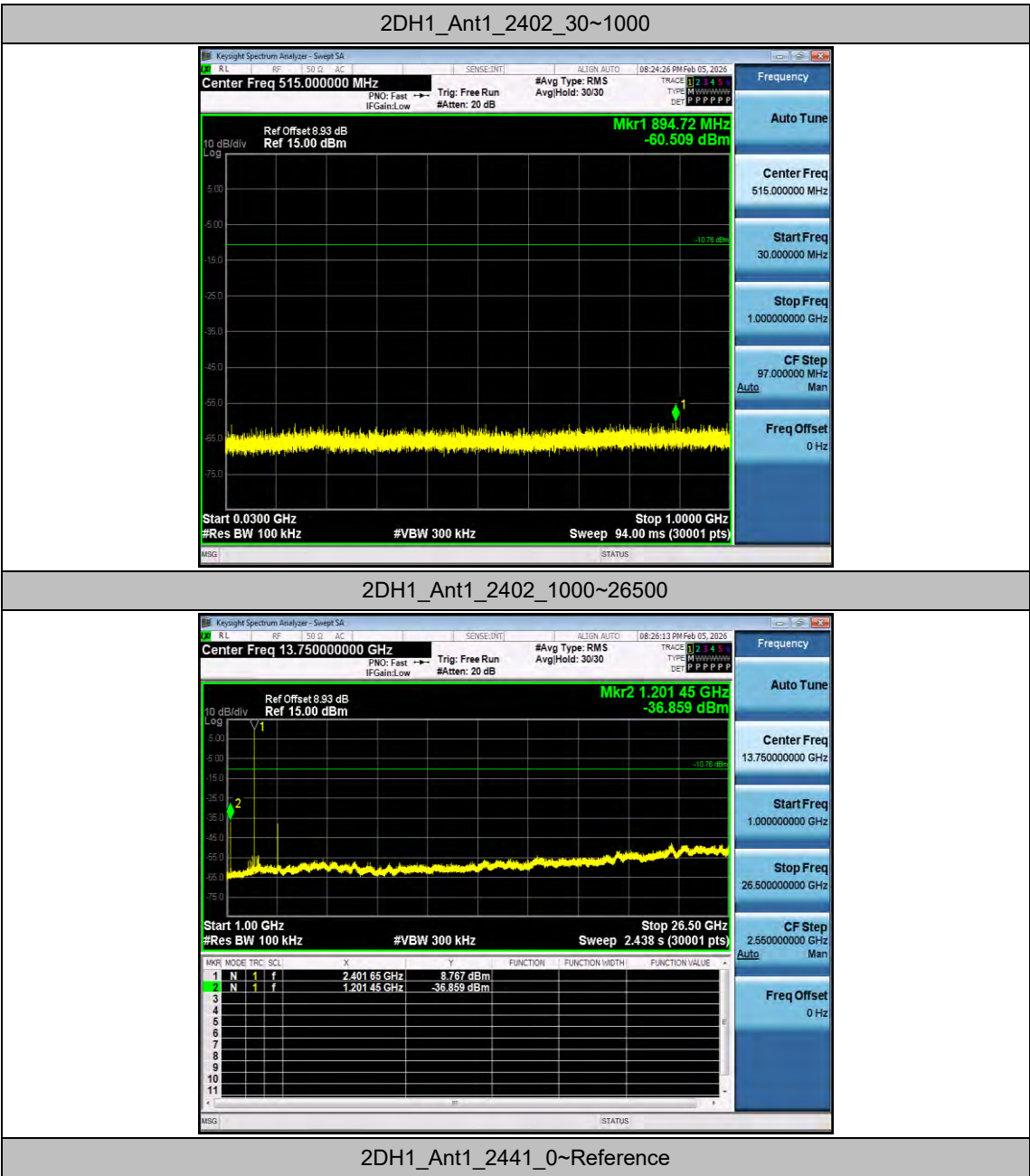


DH1_Ant1_2480_1000~26500



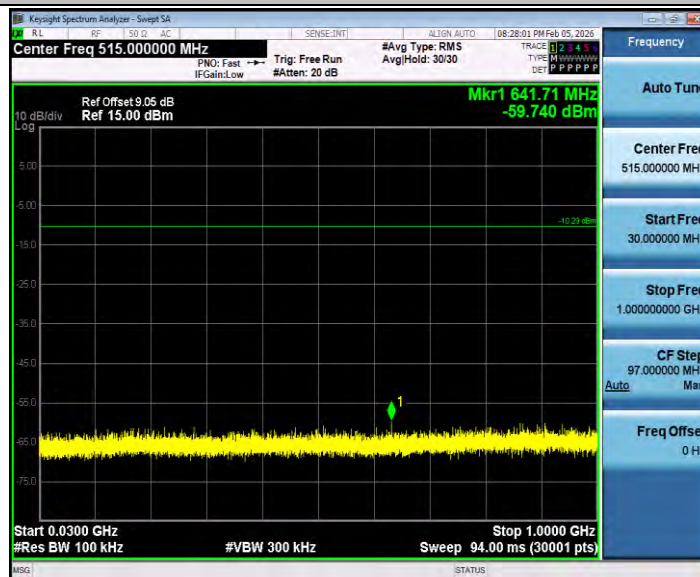
2DH1_Ant1_2402_0~Reference







2DH1_Ant1_2441_30~1000



2DH1_Ant1_2441_1000~26500



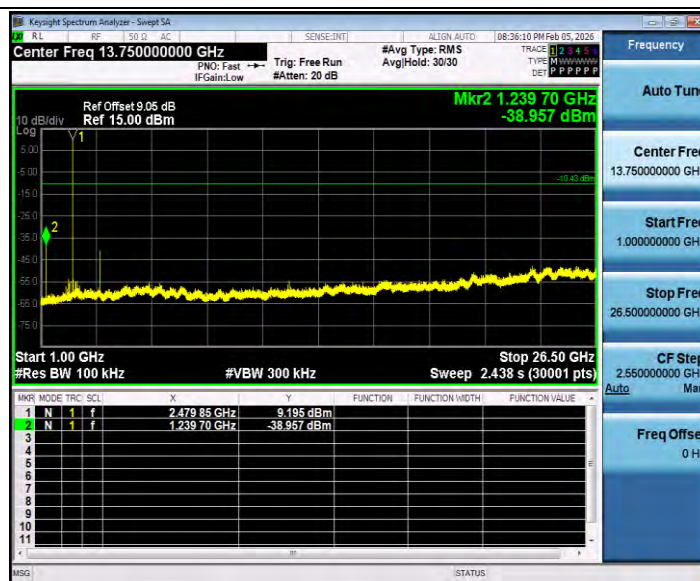
2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



2DH1_Ant1_2480_1000~26500



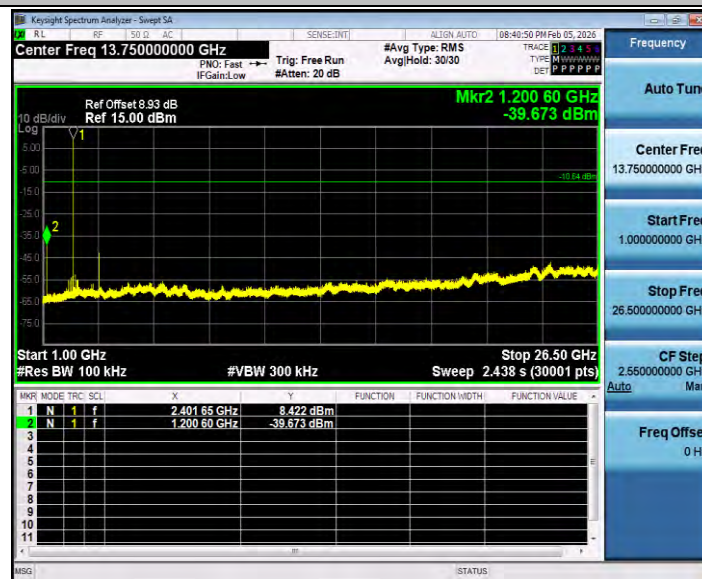
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3DH1_Ant1_2402_30~1000



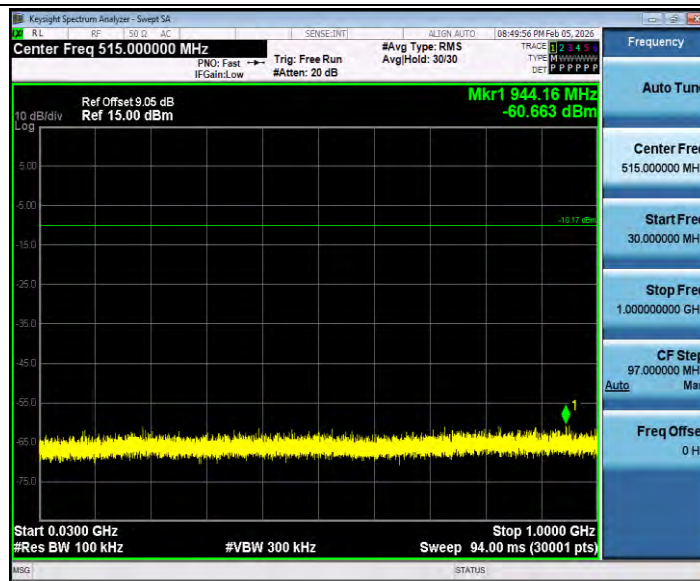
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000

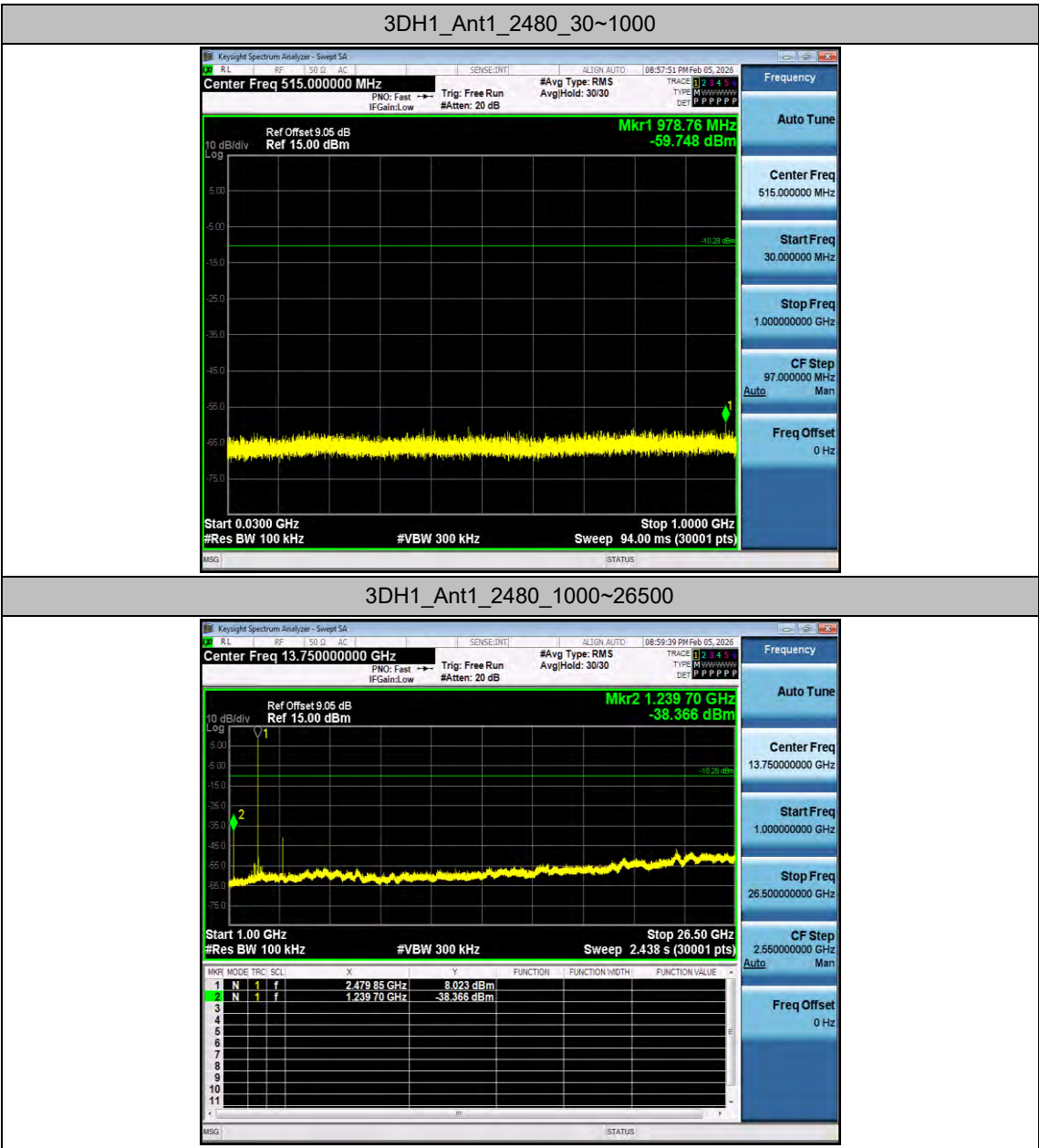


3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference





Appendix A.9: Emissions in Restricted Bands

Test Result

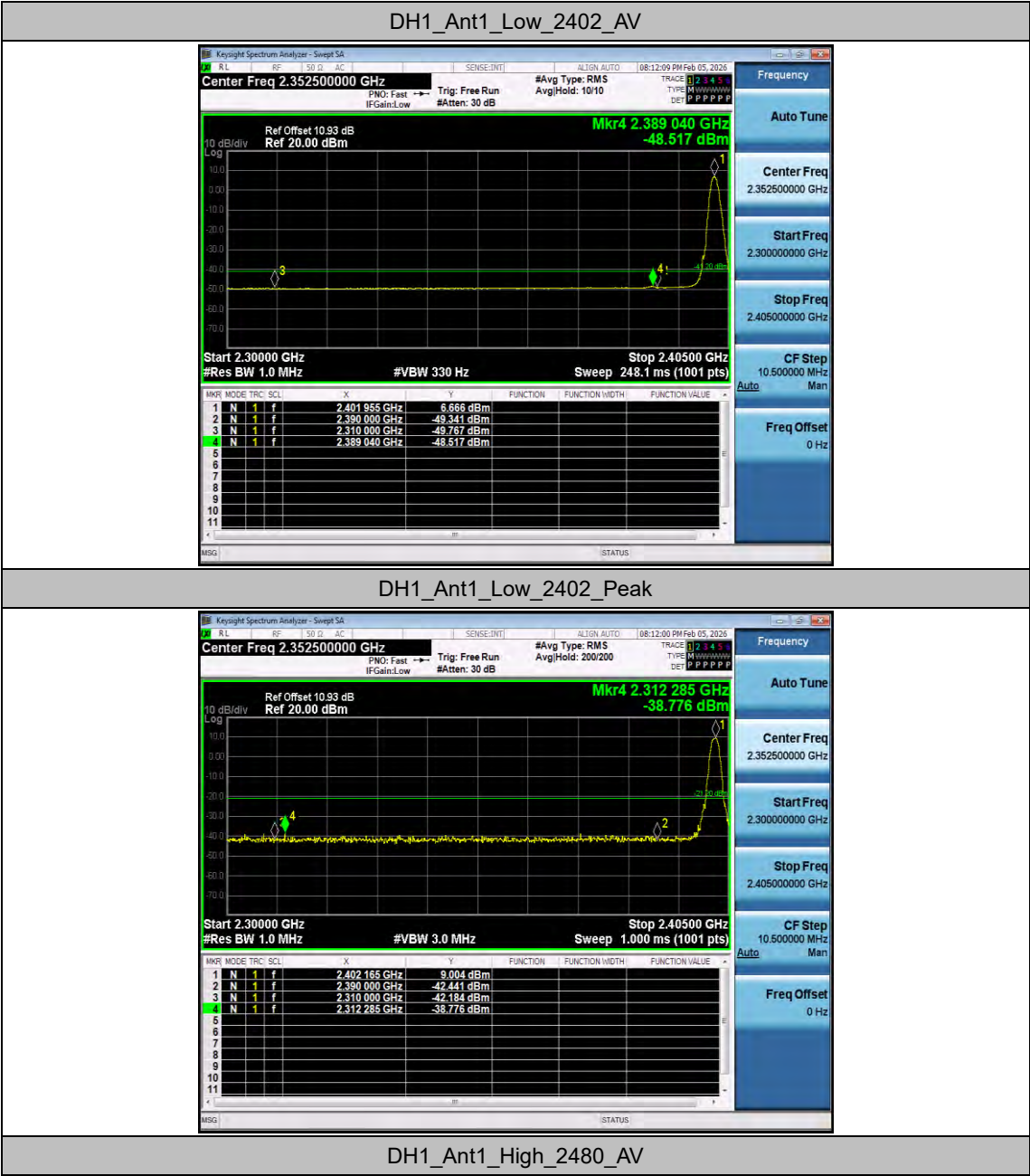
TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.77	≤-41.20	45.43	≤54	PASS
				AV	2389.040	-48.52	≤-41.20	46.68	≤54	PASS
				AV	2390.000	-49.34	≤-41.20	45.86	≤54	PASS
				Peak	2310.000	-42.18	≤-21.20	53.02	≤74	PASS
				Peak	2312.285	-38.78	≤-21.20	56.42	≤74	PASS
				Peak	2390.000	-42.44	≤-21.20	52.76	≤74	PASS
		High	2480	AV	2483.500	-45.08	≤-41.20	50.12	≤54	PASS
				AV	2483.520	-45.08	≤-41.20	50.12	≤54	PASS
				AV	2500.000	-48.98	≤-41.20	46.22	≤54	PASS
				Peak	2483.500	-35.91	≤-21.20	59.29	≤74	PASS
				Peak	2483.600	-35.1	≤-21.20	60.10	≤74	PASS
				Peak	2500.000	-41.84	≤-21.20	53.36	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.49	≤-41.20	45.71	≤54	PASS
				AV	2388.830	-48.43	≤-41.20	46.77	≤54	PASS
				AV	2390.000	-49.06	≤-41.20	46.14	≤54	PASS
				Peak	2310.000	-40.37	≤-21.20	54.83	≤74	PASS
				Peak	2386.835	-37.91	≤-21.20	57.29	≤74	PASS
				Peak	2390.000	-42.54	≤-21.20	52.66	≤74	PASS
		High	2480	AV	2483.500	-43.56	≤-41.20	51.64	≤54	PASS
				AV	2483.520	-43.56	≤-41.20	51.64	≤54	PASS
				AV	2500.000	-48.81	≤-41.20	46.39	≤54	PASS
				Peak	2483.500	-34.76	≤-21.20	60.44	≤74	PASS
				Peak	2483.600	-34	≤-21.20	61.20	≤74	PASS
				Peak	2500.000	-41.04	≤-21.20	54.16	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.41	≤-41.20	45.79	≤54	PASS
				AV	2388.725	-48.45	≤-41.20	46.75	≤54	PASS
				AV	2390.000	-48.97	≤-41.20	46.23	≤54	PASS
				Peak	2310.000	-41.93	≤-21.20	53.27	≤74	PASS
				Peak	2335.490	-38.35	≤-21.20	56.85	≤74	PASS
				Peak	2390.000	-42.03	≤-21.20	53.17	≤74	PASS
		High	2480	AV	2483.500	-42.84	≤-41.20	52.36	≤54	PASS
				AV	2483.520	-42.84	≤-41.20	52.36	≤54	PASS
				AV	2500.000	-48.83	≤-41.20	46.37	≤54	PASS
				Peak	2483.500	-31.49	≤-21.20	63.71	≤74	PASS
				Peak	2483.520	-31.49	≤-21.20	63.71	≤74	PASS

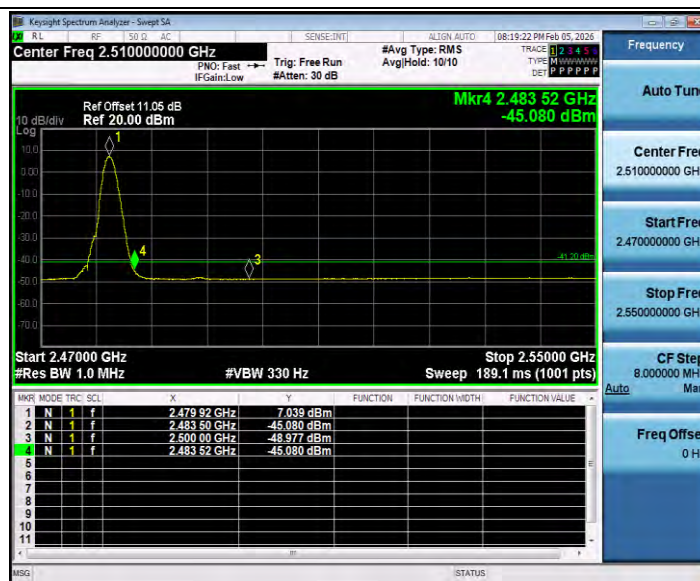
				Peak	2500.000	-39.62	≤-21.20	55.58	≤74	PASS
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Note:

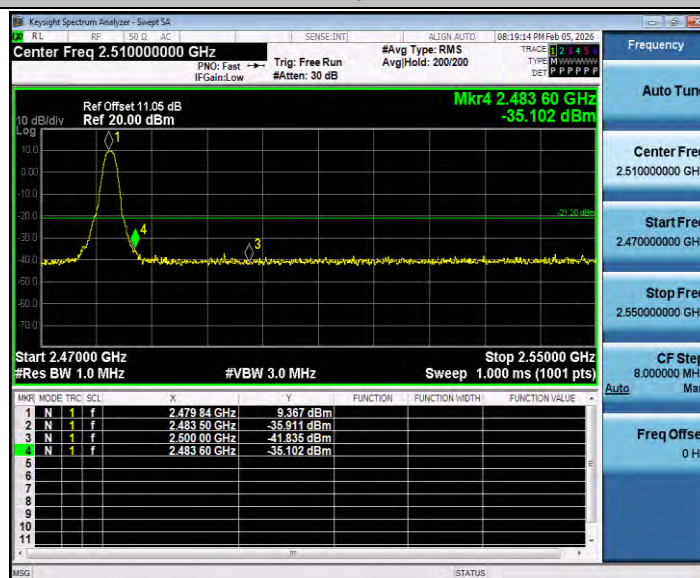
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

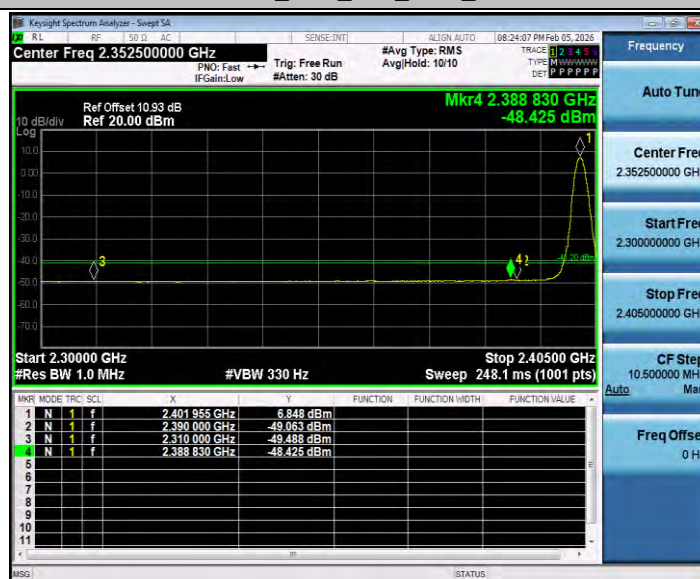




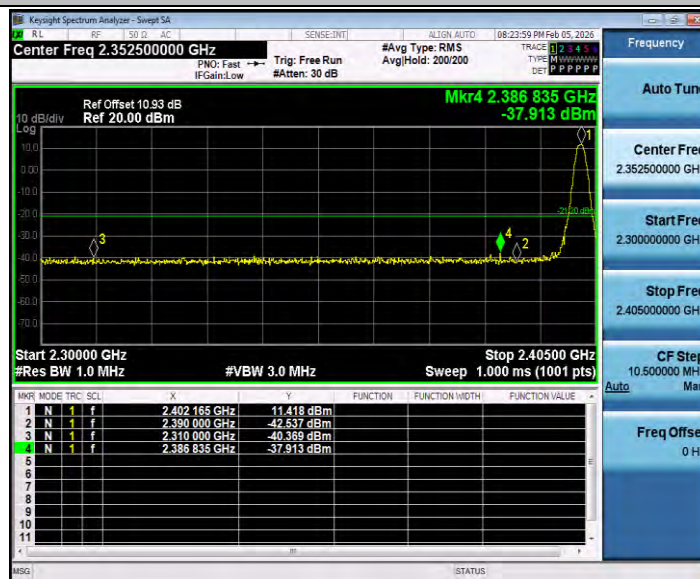
DH1_Ant1_High_2480_Peak



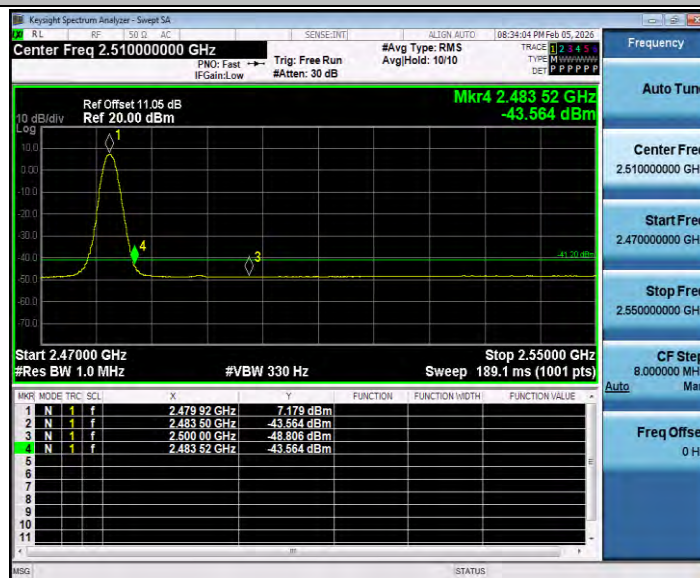
2DH1_Ant1_Low_2402_AV



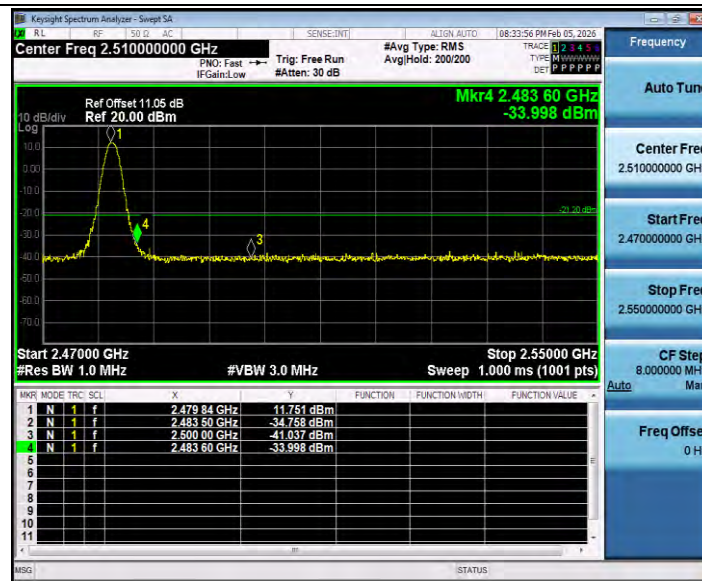
2DH1_Ant1_Low_2402_Peak



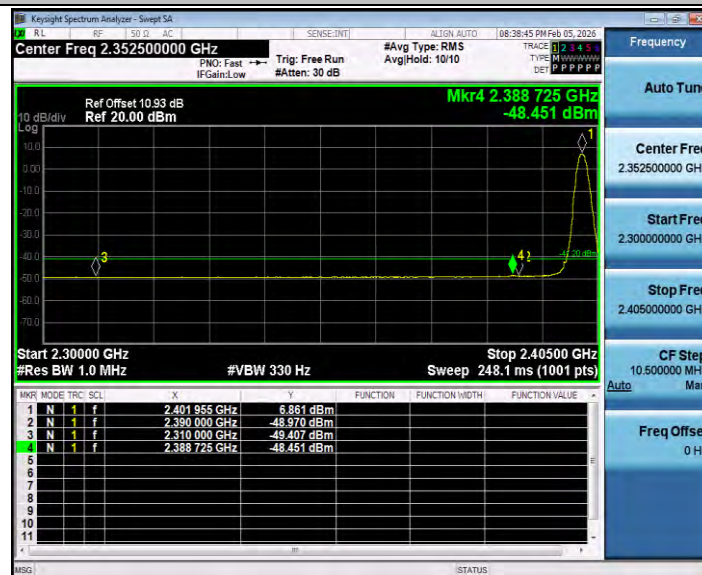
2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak



3DH1_Ant1_Low_2402_AV



3DH1_Ant1_Low_2402_Peak

