

Case No. : <u>GTS20250825004-12-02</u>
Ambient Condition: <u>22</u> °C, <u>48</u> %RH
According Standard: ■Part15C
Test Date: <u>2025.12.20-2026.1.22</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	0.936	2401.523	2402.459	---	---
		2441	0.936	2440.523	2441.459	---	---
		2480	0.942	2479.520	2480.462	---	---
2DH1	Ant1	2402	1.296	2401.325	2402.621	---	---
		2441	1.323	2440.319	2441.642	---	---
		2480	1.272	2479.349	2480.621	---	---
3DH1	Ant1	2402	1.293	2401.340	2402.633	---	---
		2441	1.266	2440.361	2441.627	---	---
		2480	1.281	2479.346	2480.627	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



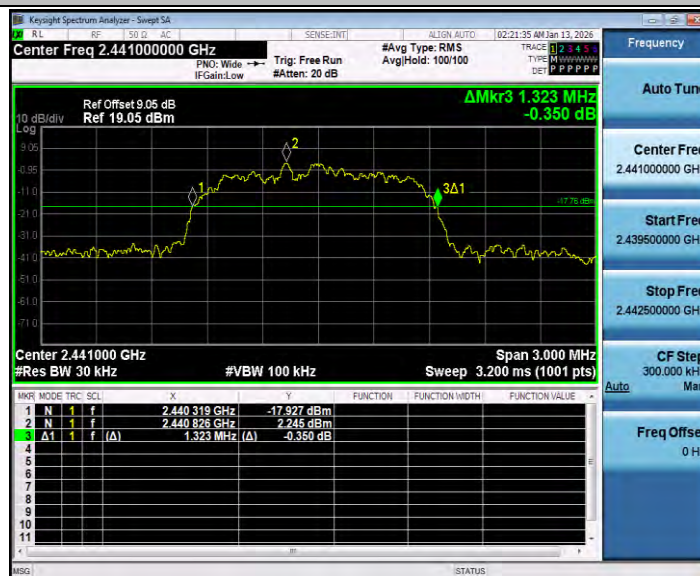
DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



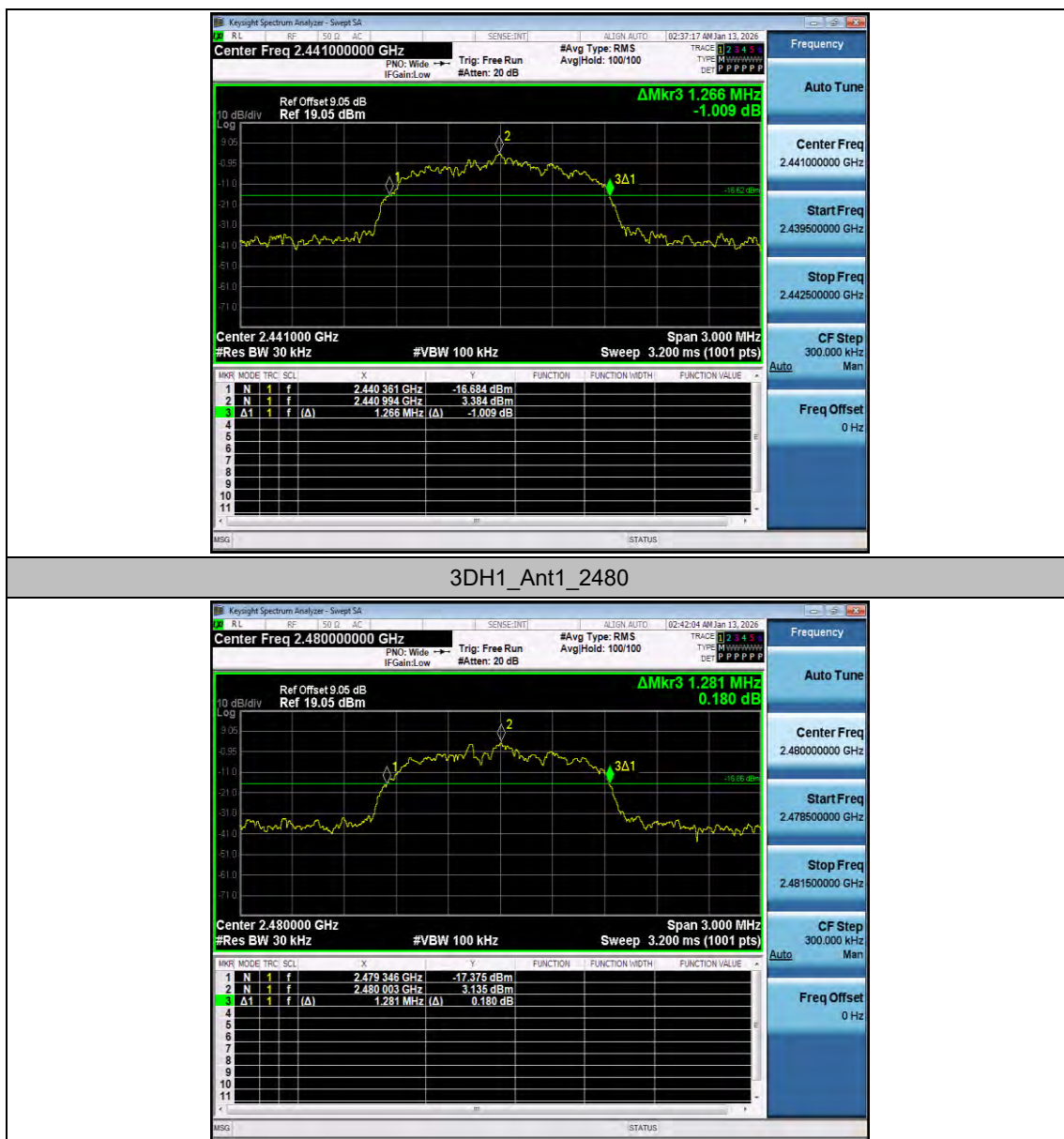
2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



AppendixA.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.82083	2401.5820	2402.4028	---	---
		2441	0.84028	2440.5700	2441.4102	---	---
		2480	0.85162	2479.5604	2480.4120	---	---
2DH1	Ant1	2402	1.1869	2401.3896	2402.5765	---	---
		2441	1.1788	2440.3910	2441.5698	---	---
		2480	1.1736	2479.3916	2480.5652	---	---
3DH1	Ant1	2402	1.1664	2401.4166	2402.5830	---	---
		2441	1.1646	2440.4162	2441.5808	---	---
		2480	1.1664	2479.4135	2480.5799	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



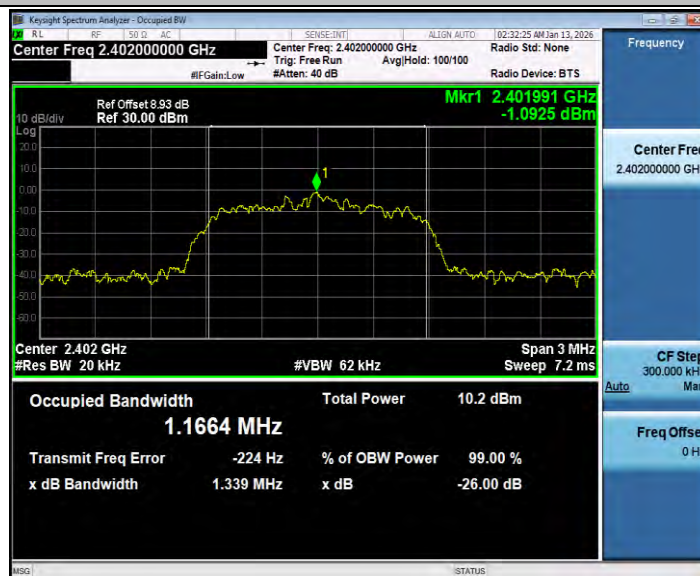
2DH1_Ant1_2441



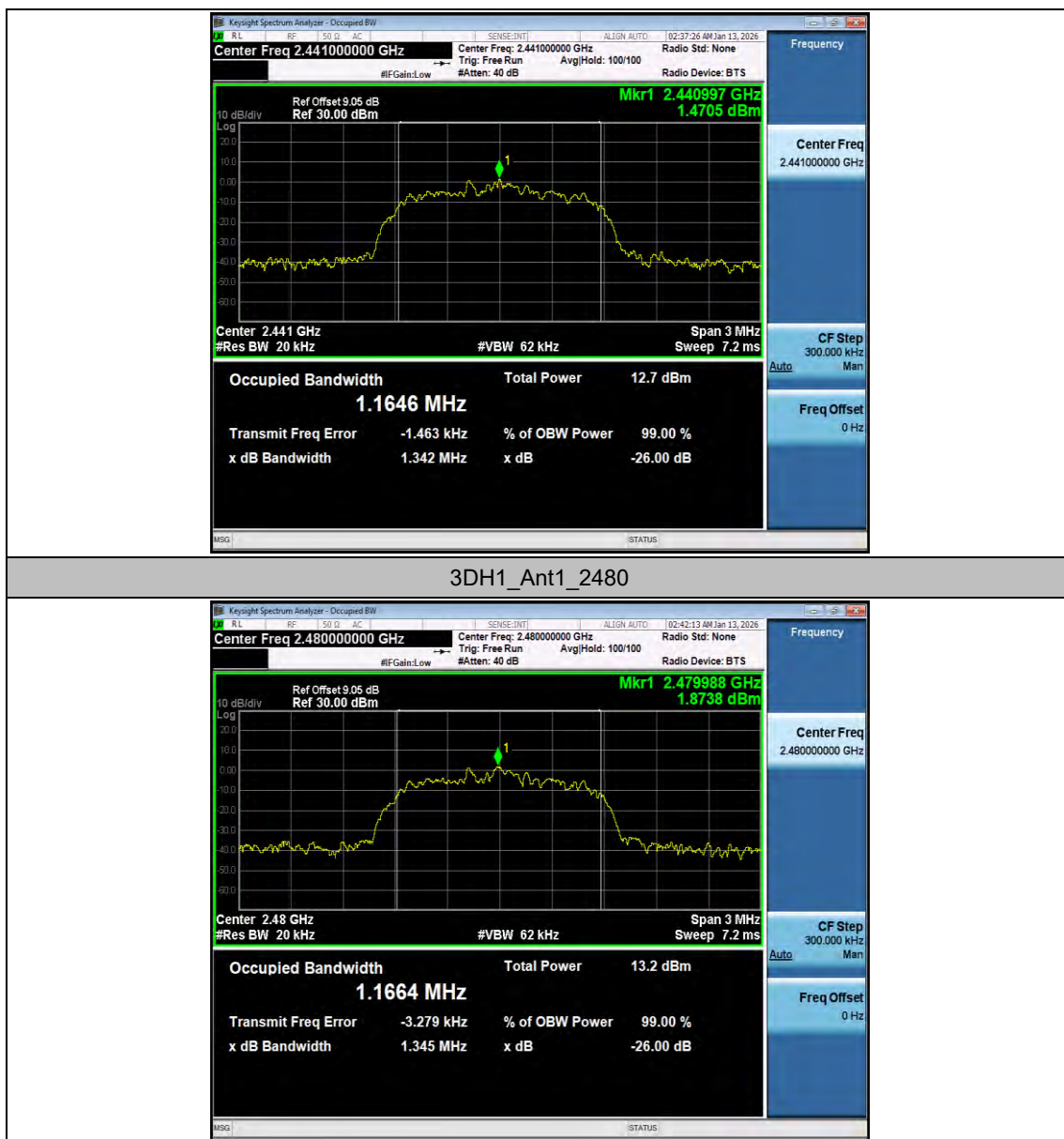
2DH1_Ant1_2480



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	8.81	≤20.97	PASS
		2441	10.98	≤20.97	PASS
		2480	11.22	≤20.97	PASS
2DH1	Ant1	2402	8.11	≤20.97	PASS
		2441	10.37	≤20.97	PASS
		2480	10.61	≤20.97	PASS
3DH1	Ant1	2402	8.51	≤20.97	PASS
		2441	10.65	≤20.97	PASS
		2480	10.75	≤20.97	PASS

AppendixA.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.676	≥ 0.628	PASS
		Hop_2441	0.994	≥ 0.628	PASS
		Hop_2480	1.002	≥ 0.628	PASS
2DH1	Ant1	Hop_2402	0.992	≥ 0.882	PASS
		Hop_2441	1.016	≥ 0.882	PASS
		Hop_2480	0.97	≥ 0.882	PASS
3DH1	Ant1	Hop_2402	1.002	≥ 0.862	PASS
		Hop_2441	0.982	≥ 0.862	PASS
		Hop_2480	1.022	≥ 0.862	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

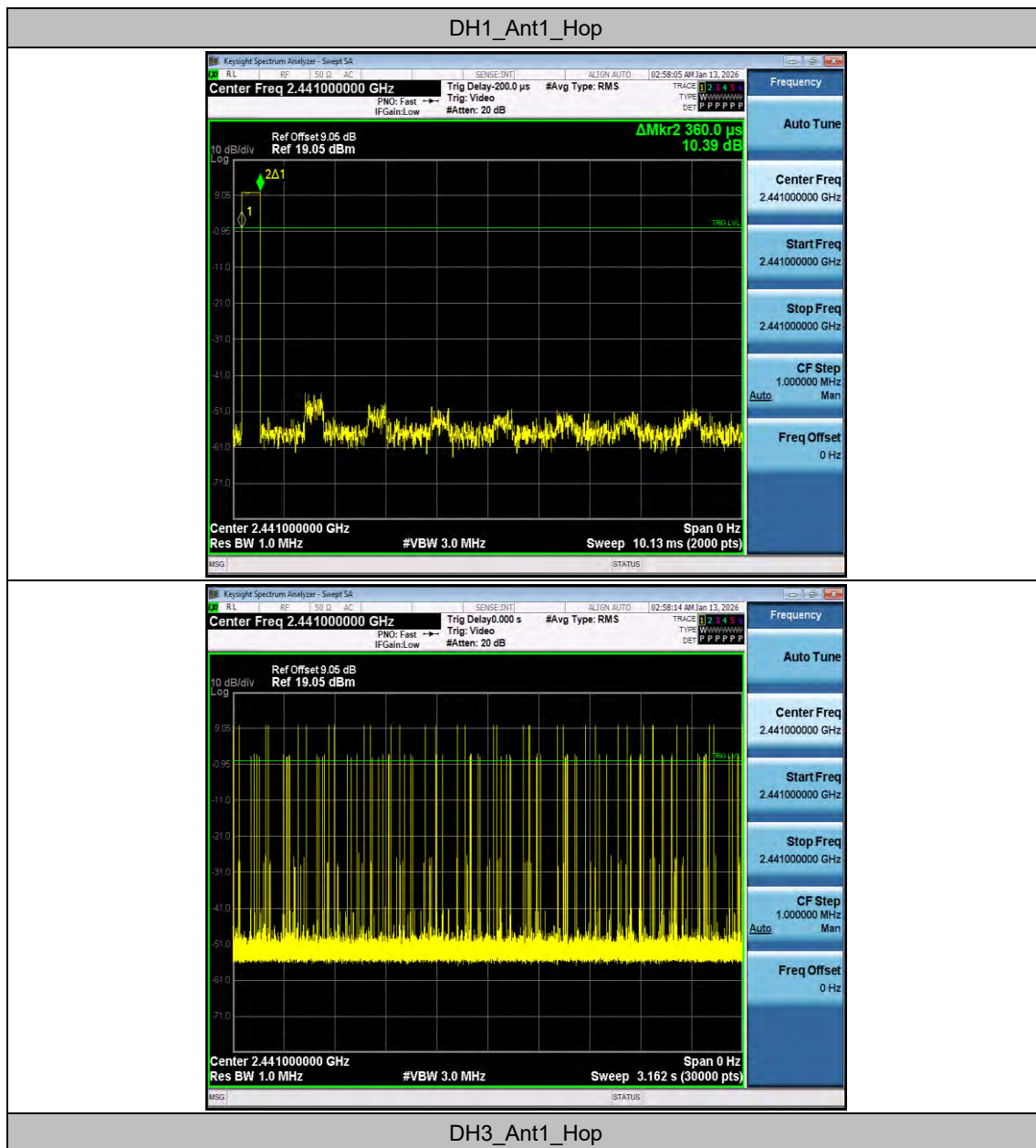


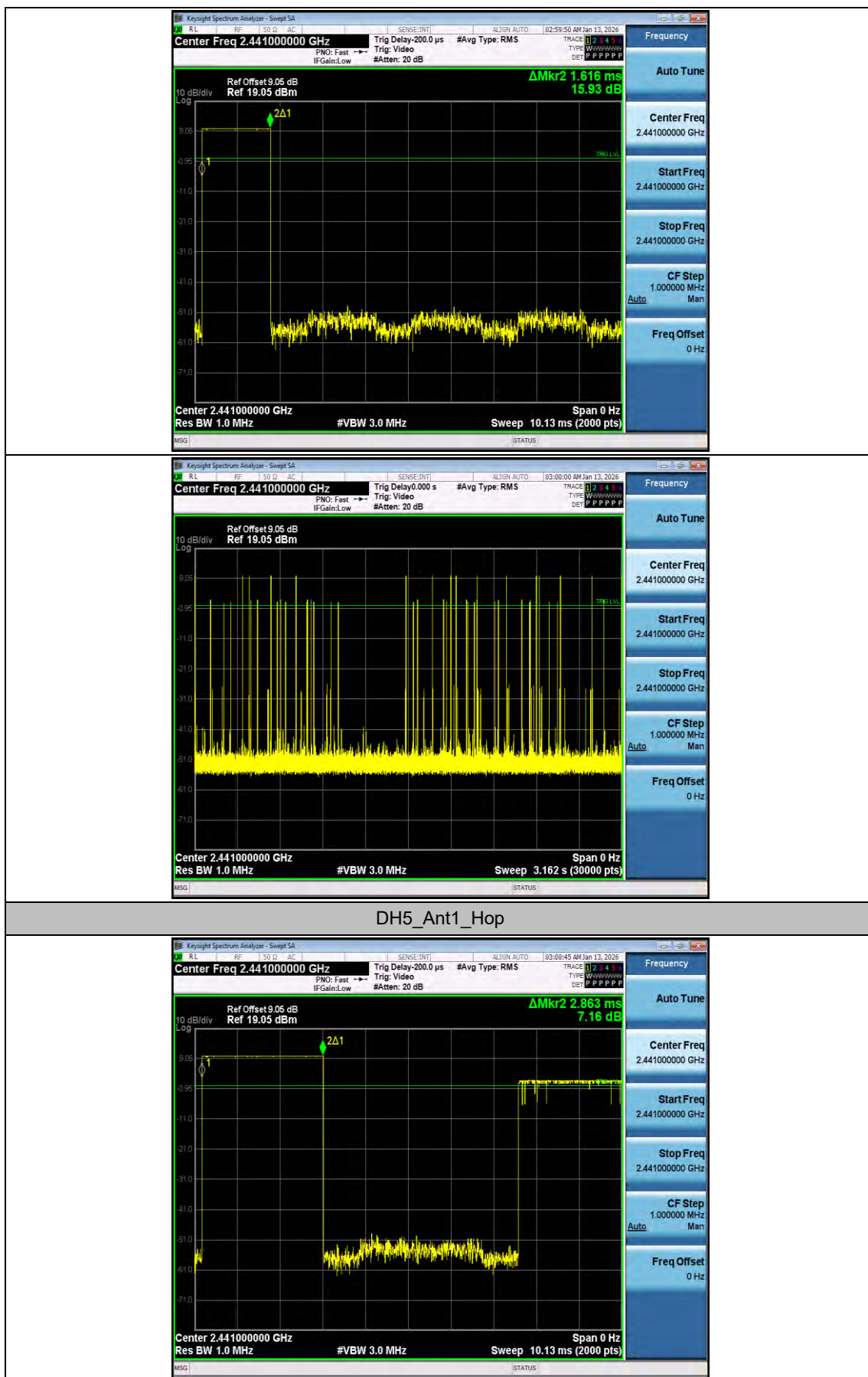
AppendixA.5: Time of occupancy

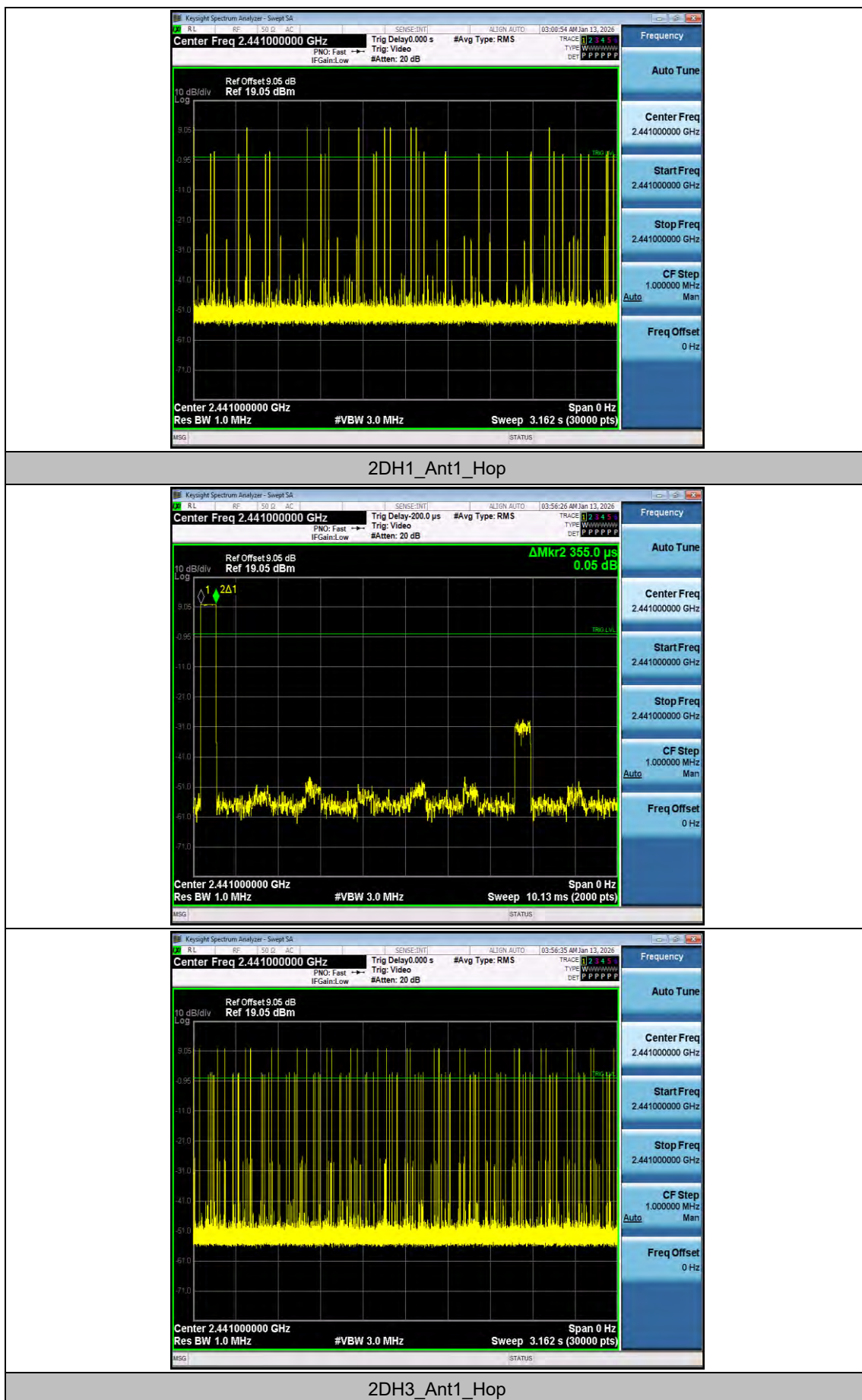
Test Result

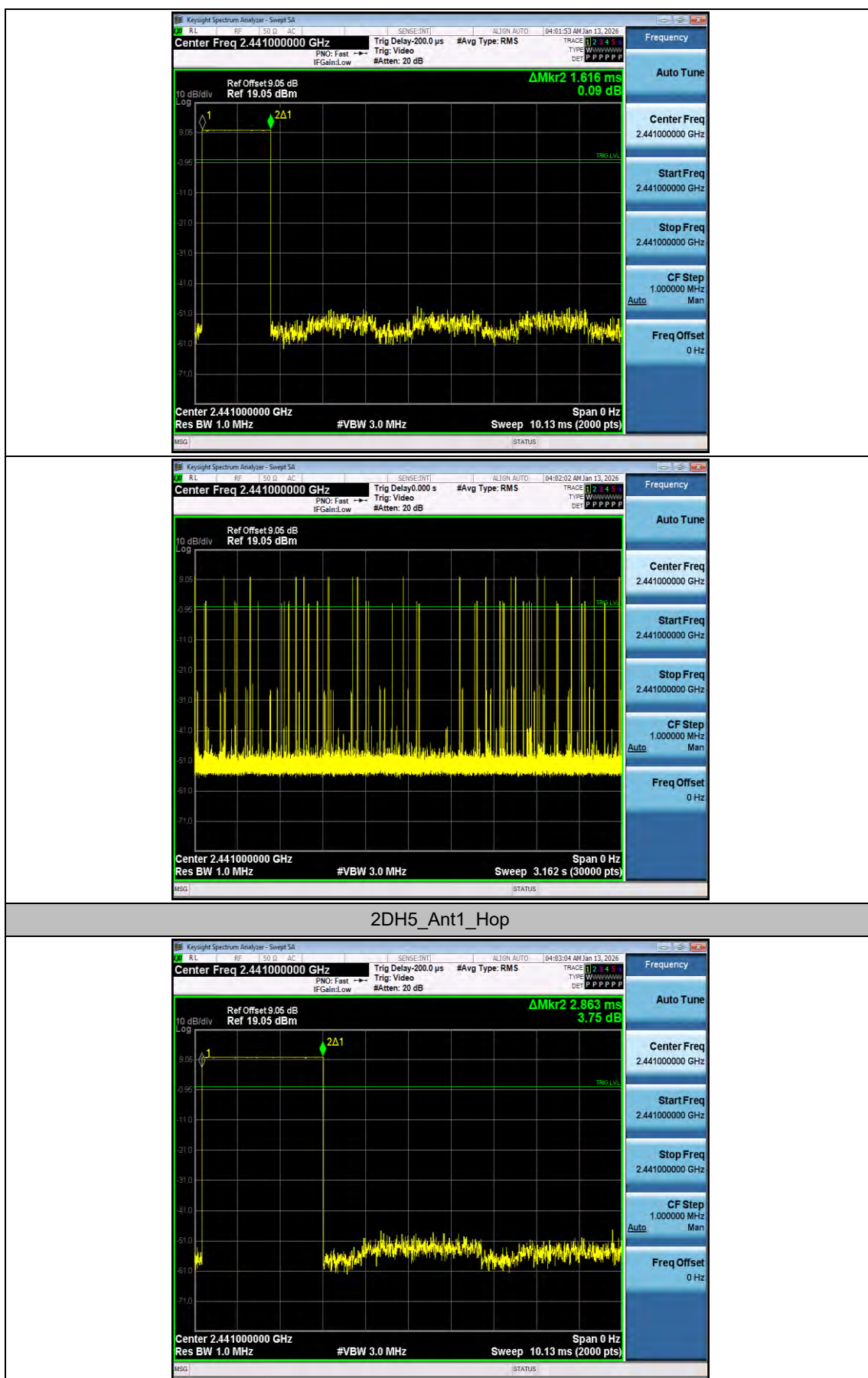
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.360	330	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.616	160	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.863	100	0.286	≤0.4	PASS
2DH1	Ant1	Hop	0.355	330	0.117	≤0.4	PASS
2DH3	Ant1	Hop	1.616	190	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.863	100	0.286	≤0.4	PASS
3DH1	Ant1	Hop	0.360	320	0.115	≤0.4	PASS
3DH3	Ant1	Hop	1.611	150	0.242	≤0.4	PASS
3DH5	Ant1	Hop	2.863	90	0.258	≤0.4	PASS

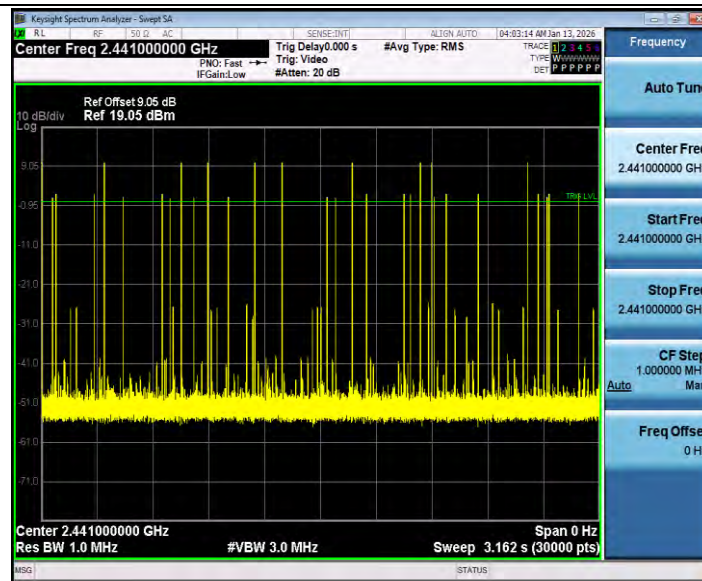
Test Graphs



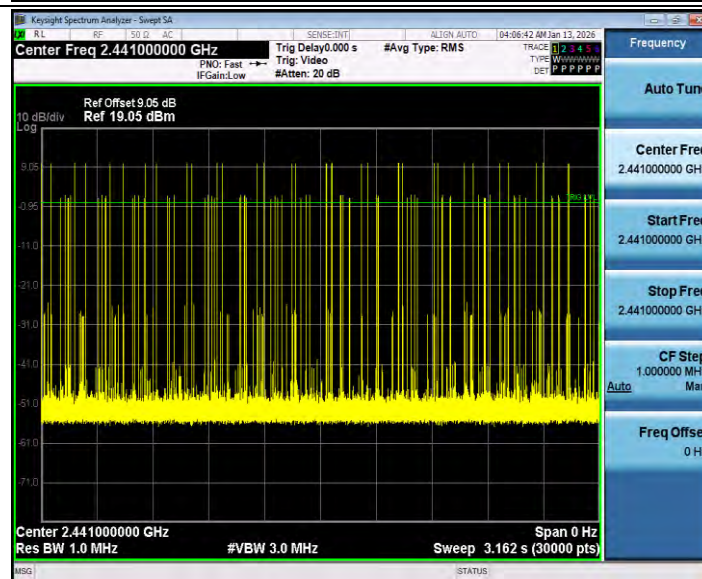
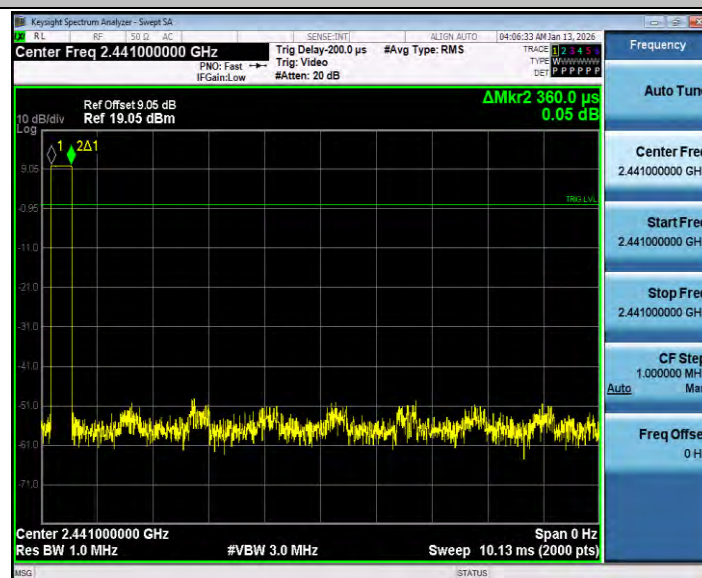




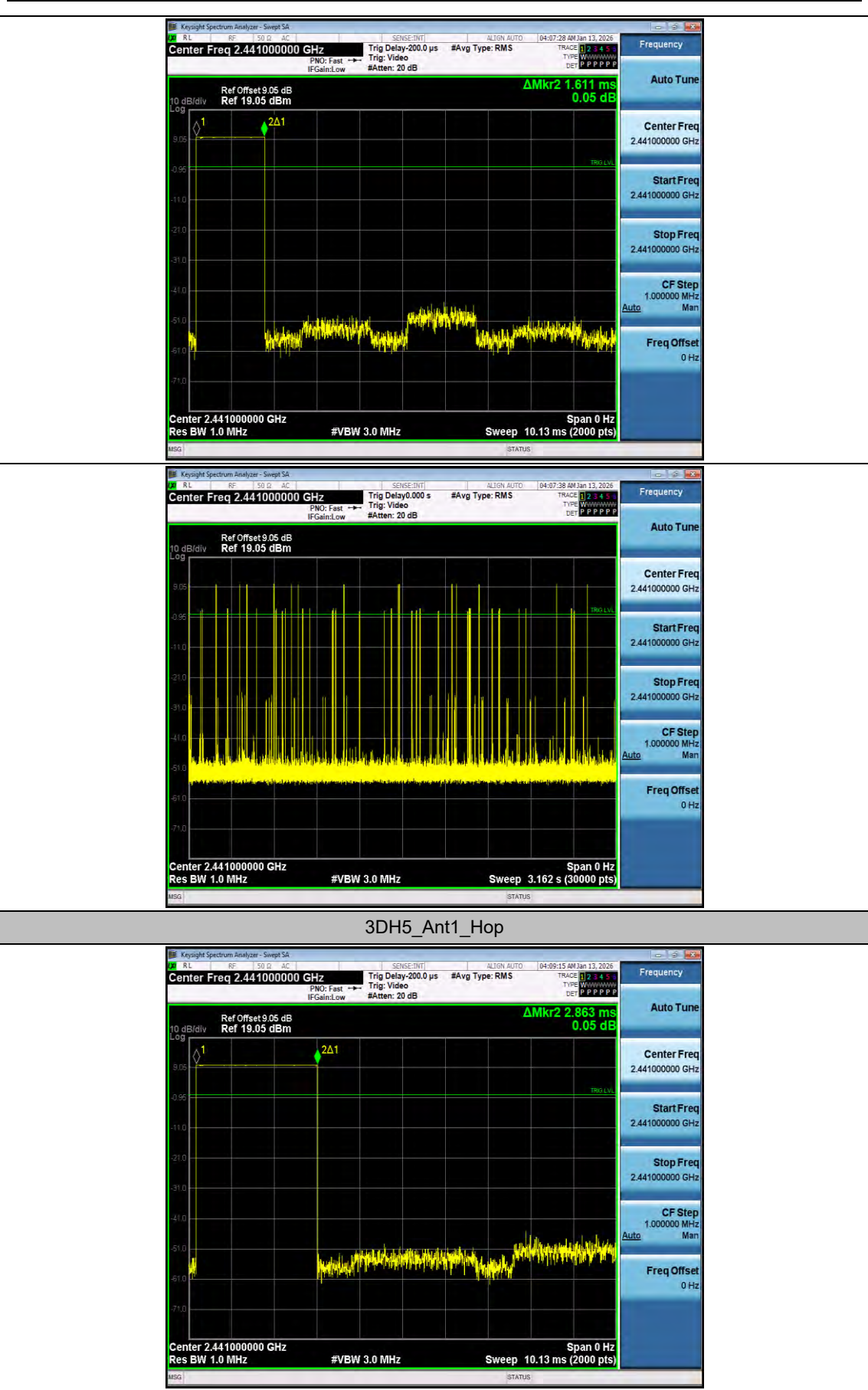


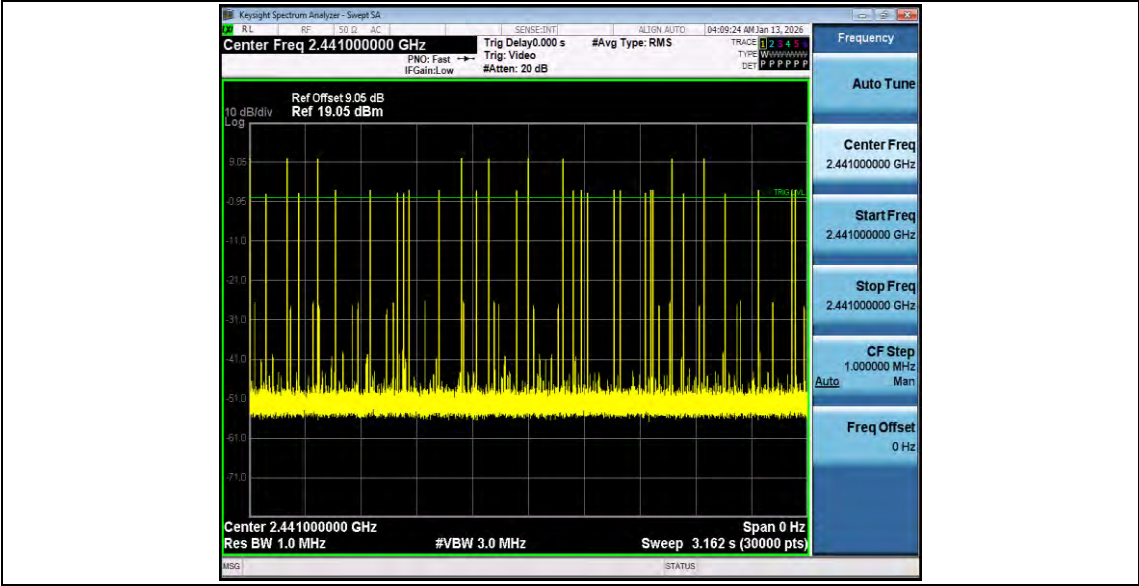


3DH1_Ant1_Hop



3DH3_Ant1_Hop

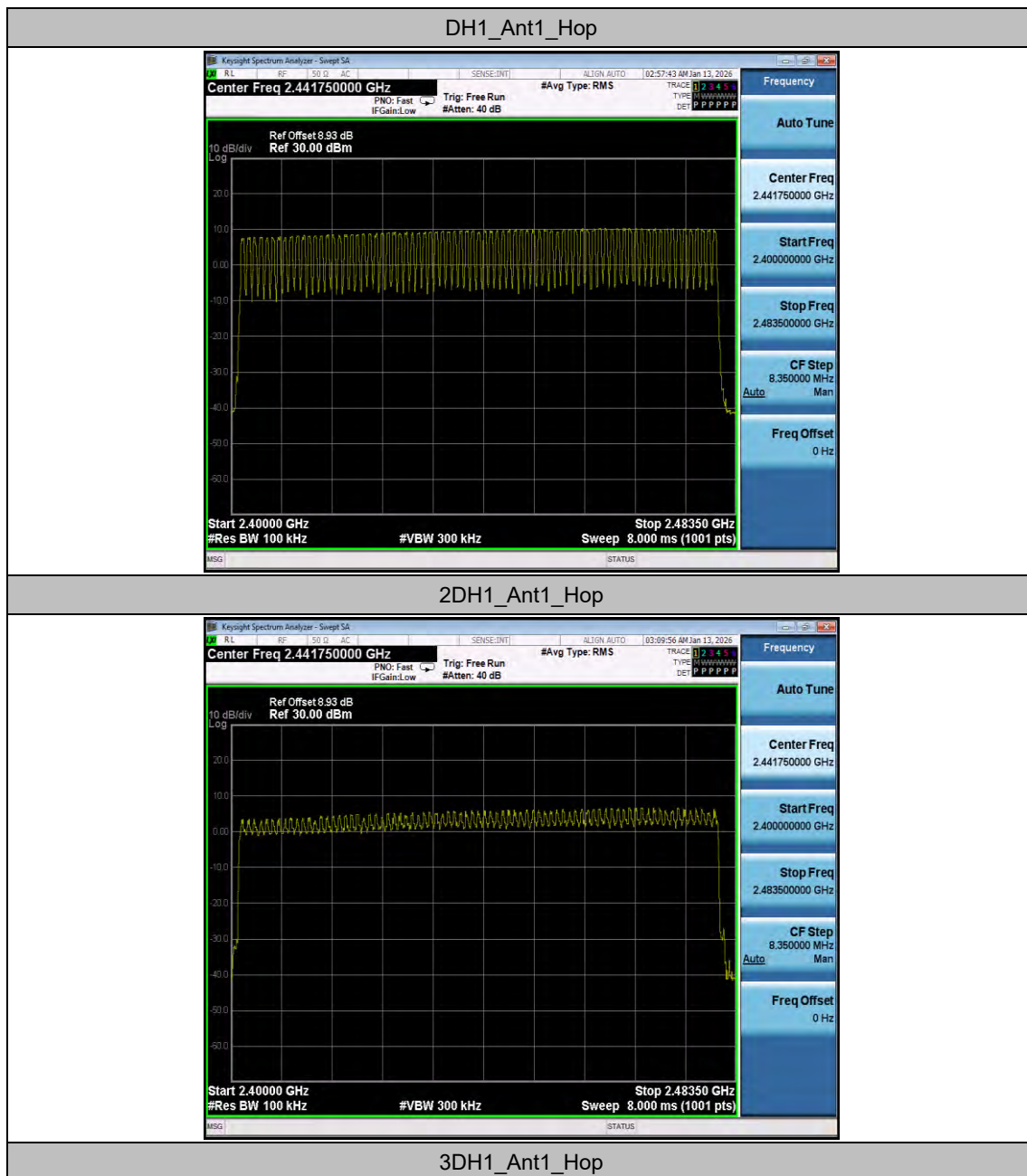


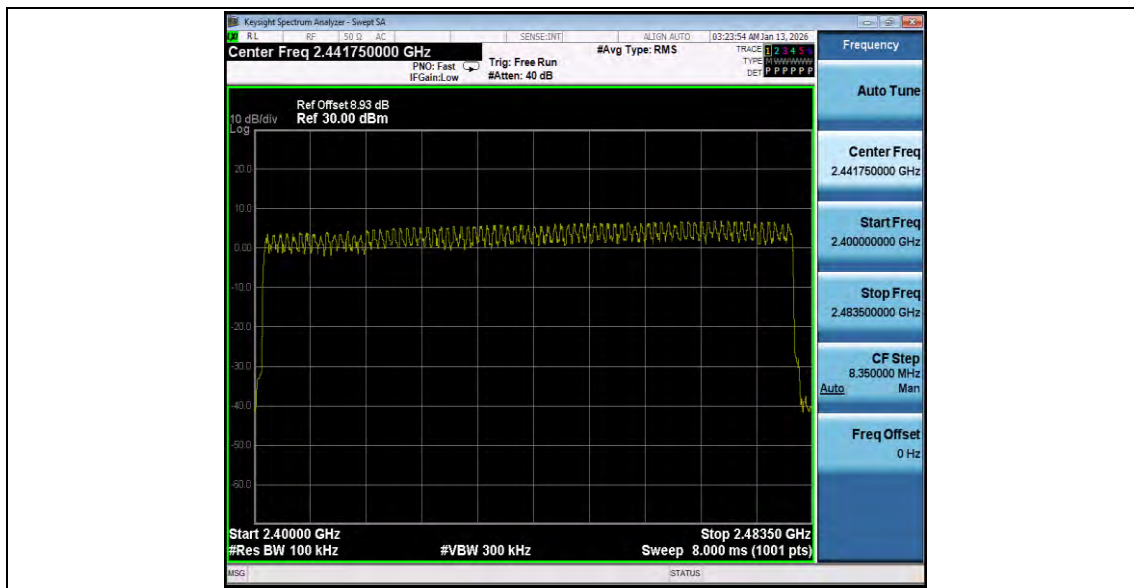


AppendixA.6: Number of hopping channels**Test Result**

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





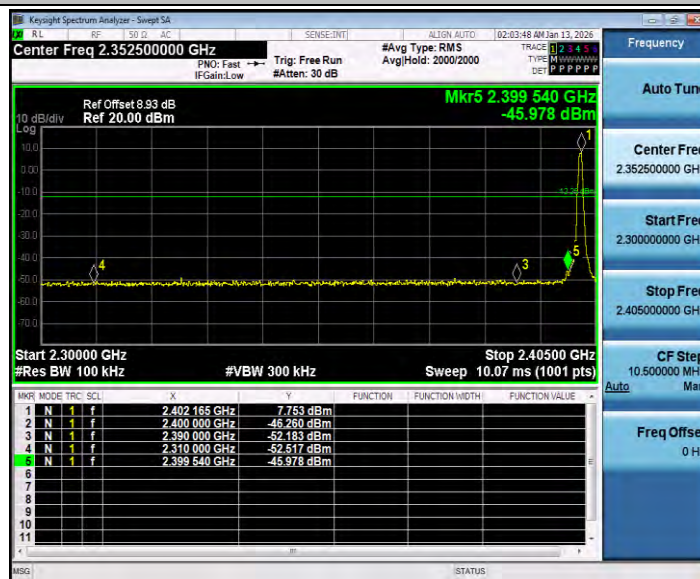
Appendix A.7: Band edge measurements

Test Result

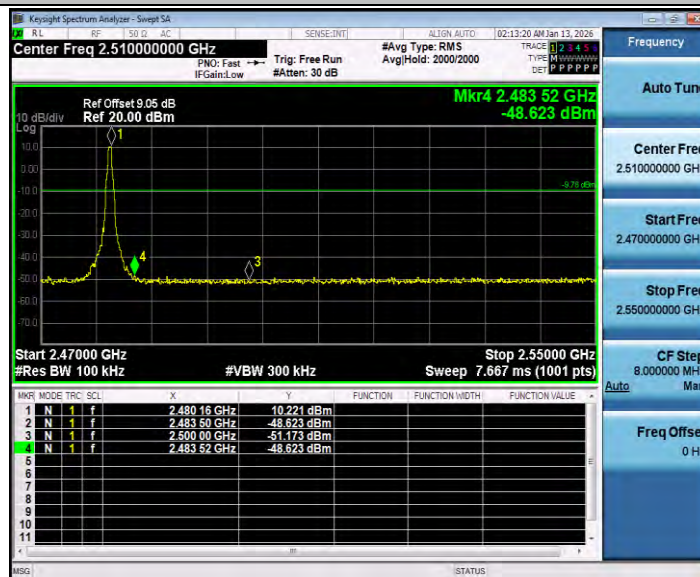
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	7.75	-45.98	≤-12.25	PASS
		High	2480	10.22	-48.62	≤-9.78	PASS
		Low	Hop_2402	7.31	-46.58	≤-12.69	PASS
		High	Hop_2480	10.32	-48.69	≤-9.68	PASS
2DH1	Ant1	Low	2402	3.49	-43.2	≤-16.52	PASS
		High	2480	6.55	-48.93	≤-13.45	PASS
		Low	Hop_2402	3.48	-49.22	≤-16.52	PASS
		High	Hop_2480	6.68	-48.1	≤-13.32	PASS
3DH1	Ant1	Low	2402	3.54	-43.17	≤-16.46	PASS
		High	2480	6.69	-48.39	≤-13.31	PASS
		Low	Hop_2402	3.55	-48.66	≤-16.45	PASS
		High	Hop_2480	6.58	-48.17	≤-13.42	PASS

Test Graphs

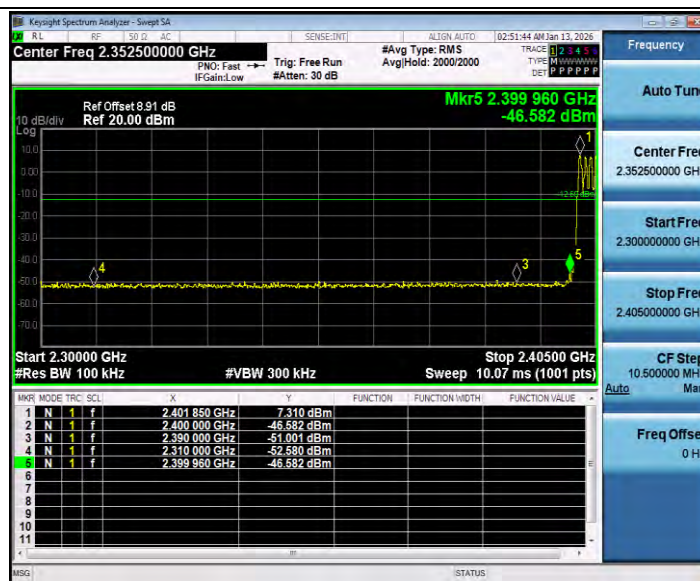
DH1_Ant1_Low_2402



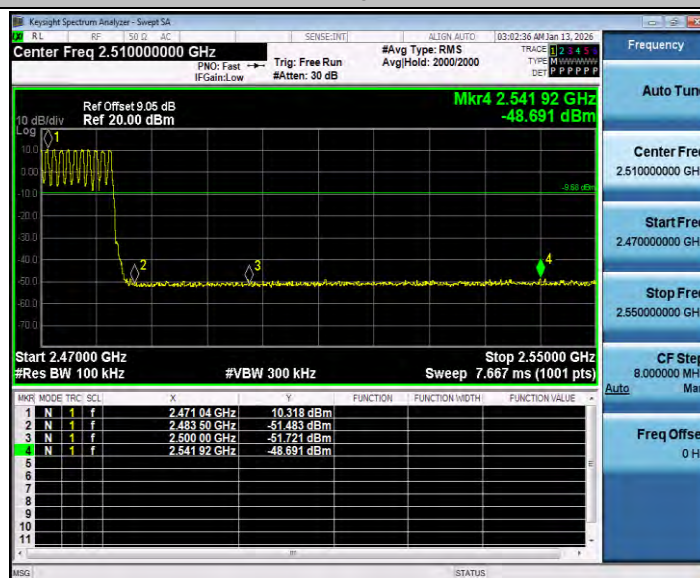
DH1_Ant1_High_2480



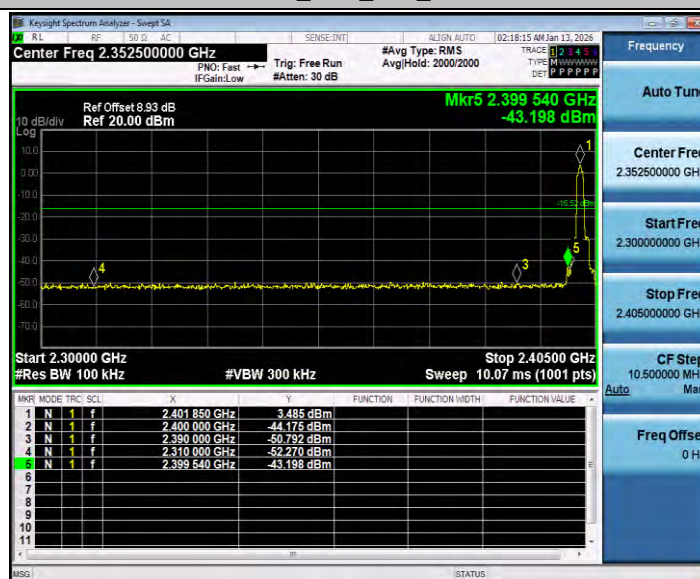
DH1_Ant1_Low_Hop_2402



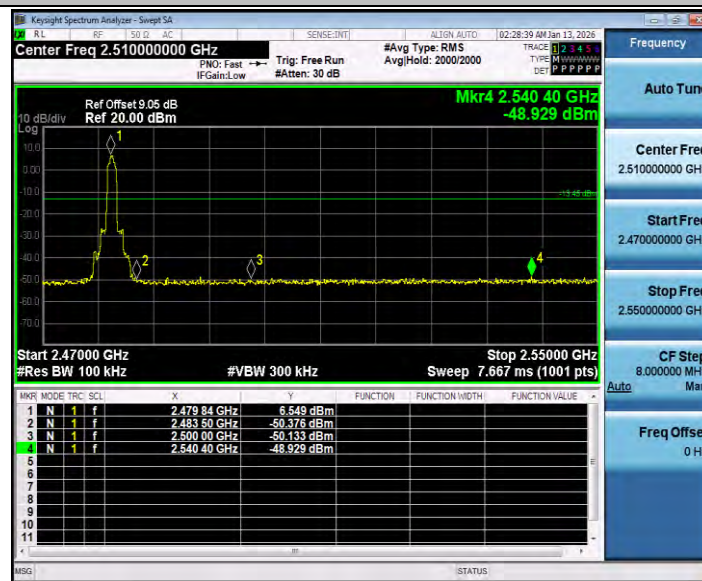
DH1_Ant1_High_Hop_2480



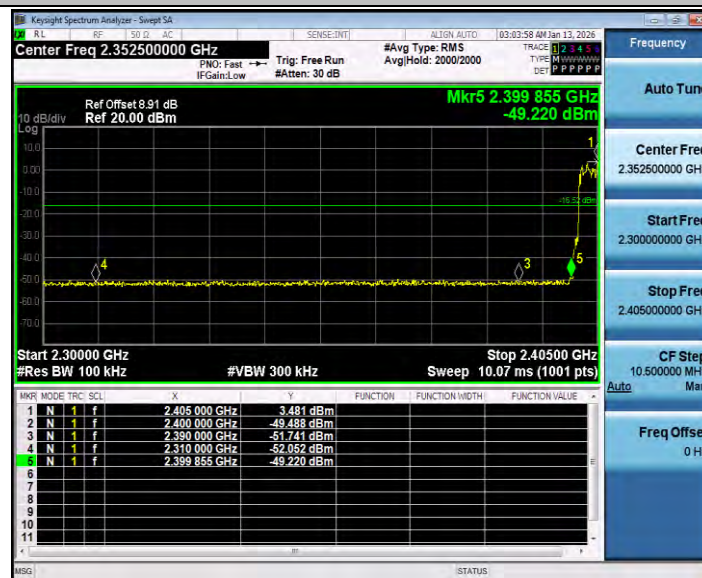
2DH1_Ant1_Low_2402



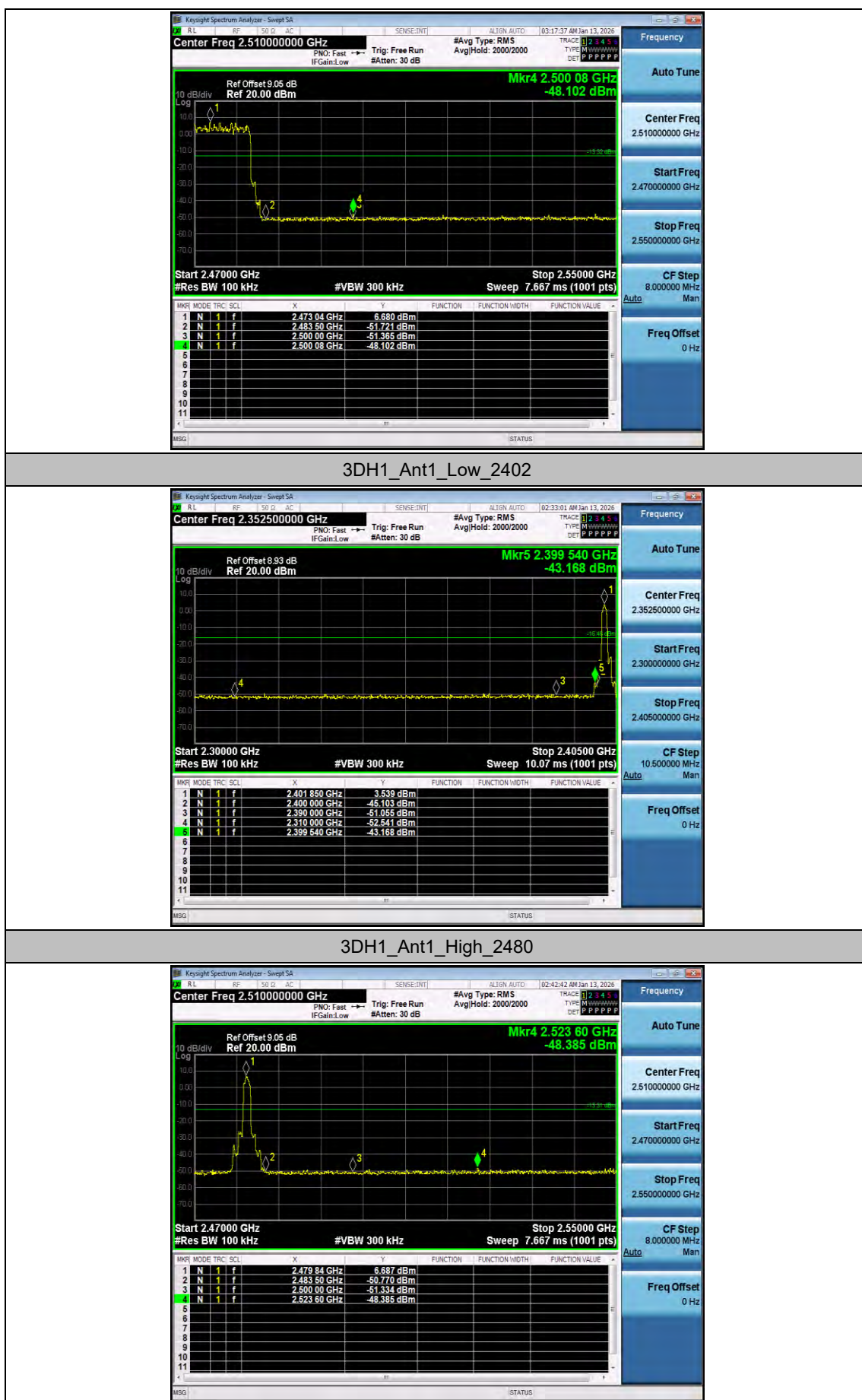
2DH1_Ant1_High_2480



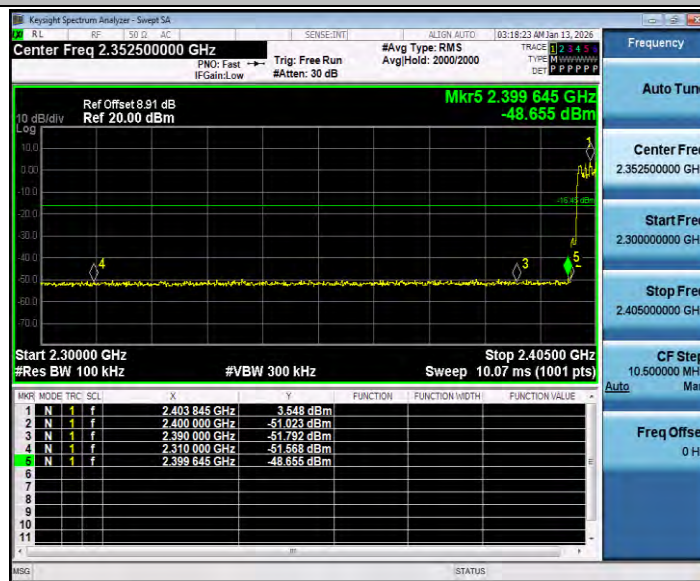
2DH1_Ant1_Low_Hop_2402



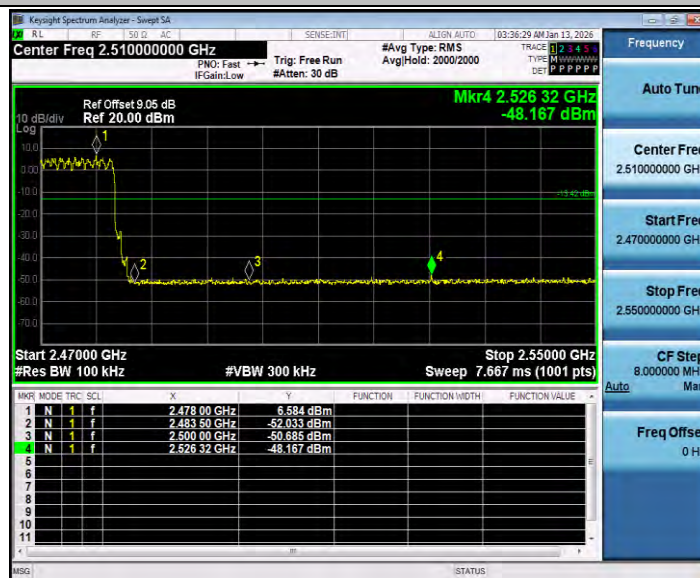
2DH1_Ant1_High_Hop_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

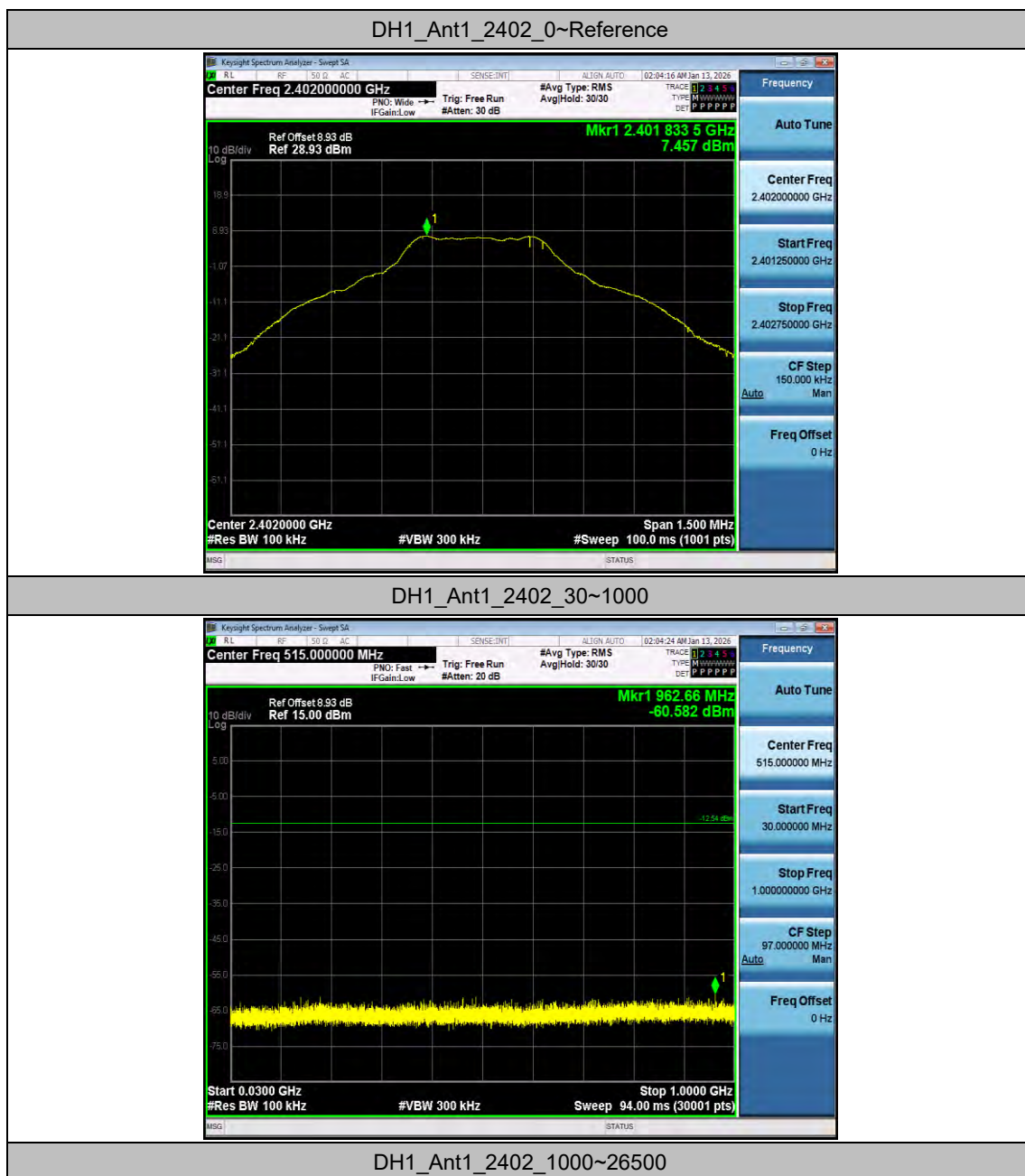


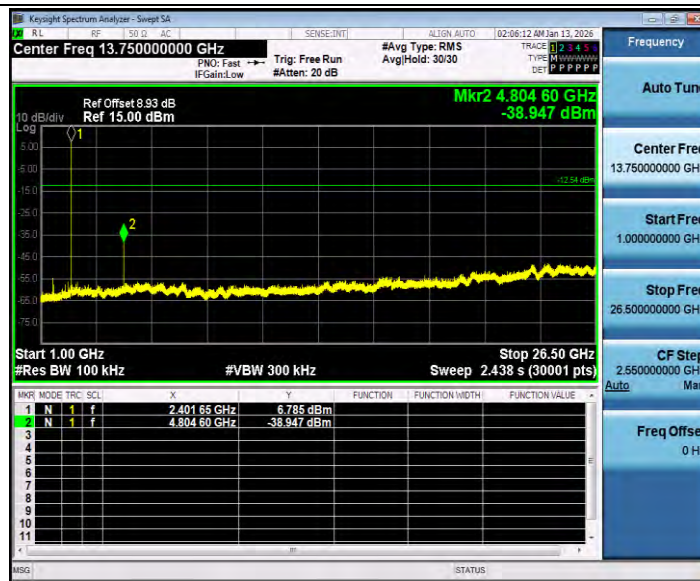
Appendix A.8: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	7.46	7.46	---	PASS
			30~1000	7.46	-60.58	≤-12.54	PASS
			1000~26500	7.46	-38.95	≤-12.54	PASS
		2441	Reference	9.67	9.67	---	PASS
			30~1000	9.67	-59.74	≤-10.33	PASS
			1000~26500	9.67	-44.63	≤-10.33	PASS
		2480	Reference	9.97	9.97	---	PASS
			30~1000	9.97	-60.75	≤-10.03	PASS
			1000~26500	9.97	-47.13	≤-10.03	PASS
2DH1	Ant1	2402	Reference	3.37	3.37	---	PASS
			30~1000	3.37	-60.63	≤-16.63	PASS
			1000~26500	3.37	-45.42	≤-16.63	PASS
		2441	Reference	5.88	5.88	---	PASS
			30~1000	5.88	-60.09	≤-14.12	PASS
			1000~26500	5.88	-47.02	≤-14.12	PASS
		2480	Reference	6.45	6.45	---	PASS
			30~1000	6.45	-60.42	≤-13.55	PASS
			1000~26500	6.45	-47.54	≤-13.55	PASS
3DH1	Ant1	2402	Reference	3.48	3.48	---	PASS
			30~1000	3.48	-60.97	≤-16.52	PASS
			1000~26500	3.48	-43.6	≤-16.52	PASS
		2441	Reference	6.03	6.03	---	PASS
			30~1000	6.03	-60.33	≤-13.97	PASS
			1000~26500	6.03	-46.71	≤-13.97	PASS
		2480	Reference	6.59	6.59	---	PASS
			30~1000	6.59	-61.13	≤-13.41	PASS
			1000~26500	6.59	-47.22	≤-13.41	PASS

Test Graphs

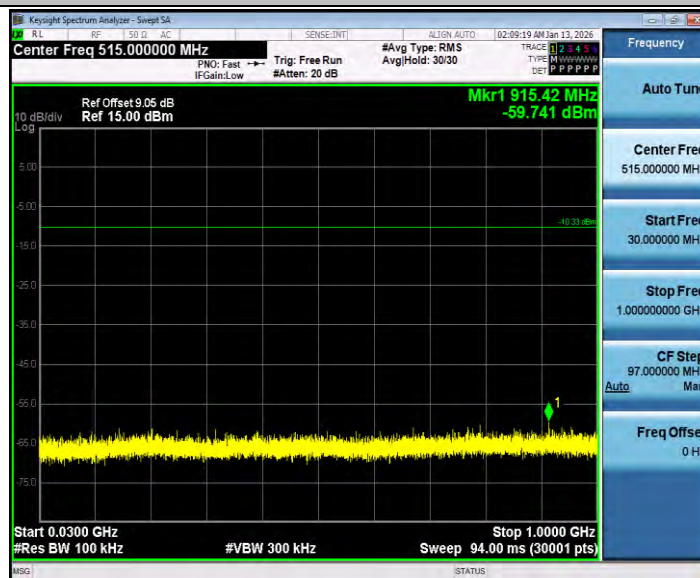




DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



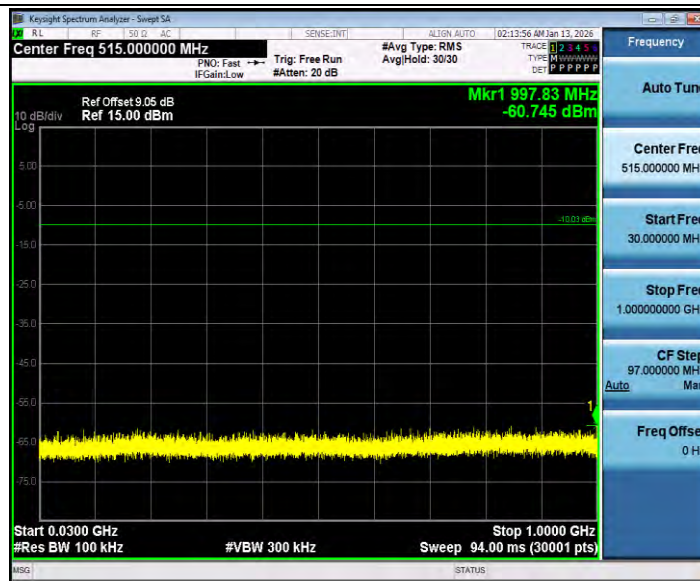
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000

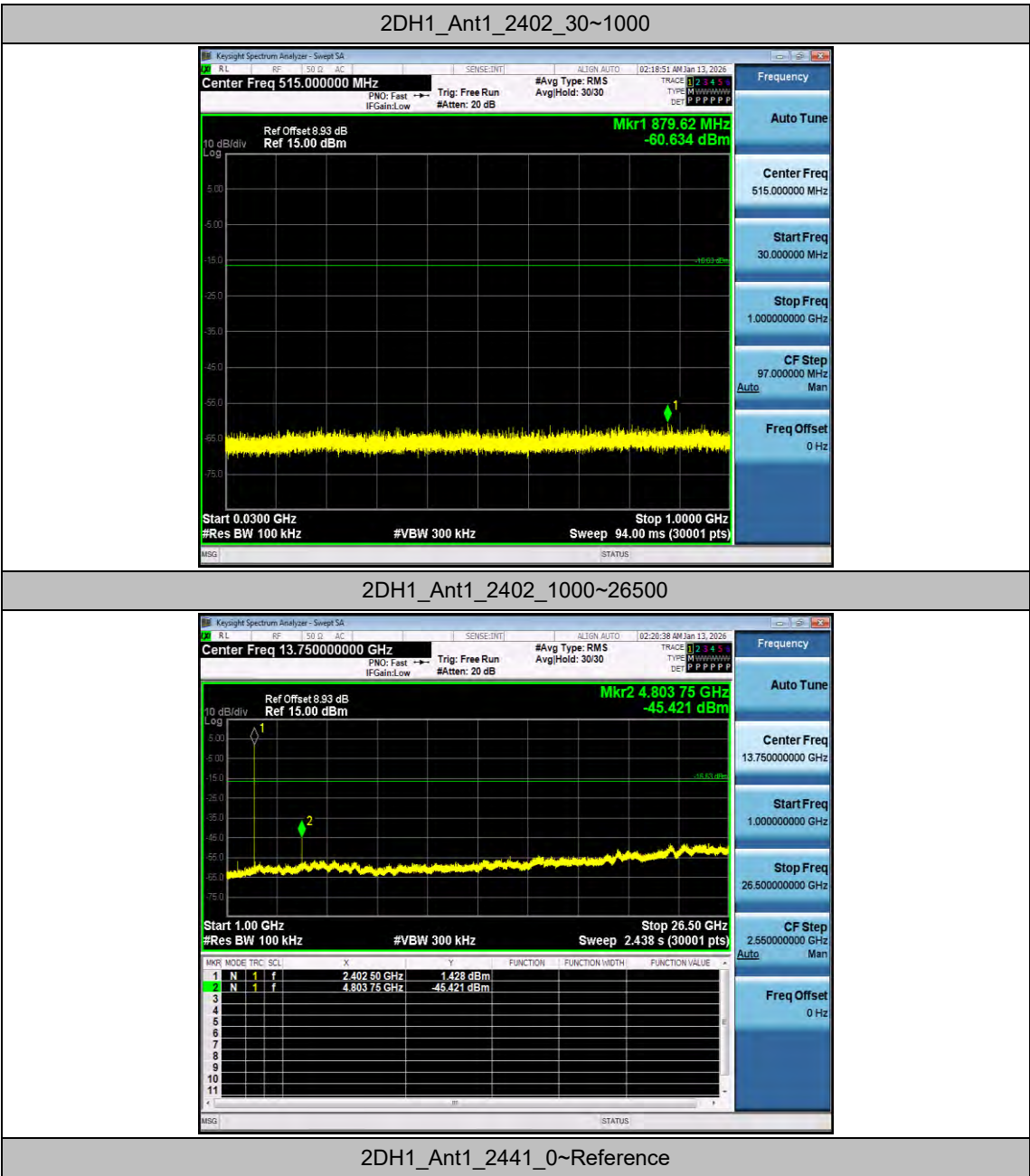


DH1_Ant1_2480_1000~26500



2DH1_Ant1_2402_0~Reference







2DH1_Ant1_2441_30~1000



2DH1_Ant1_2441_1000~26500



2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



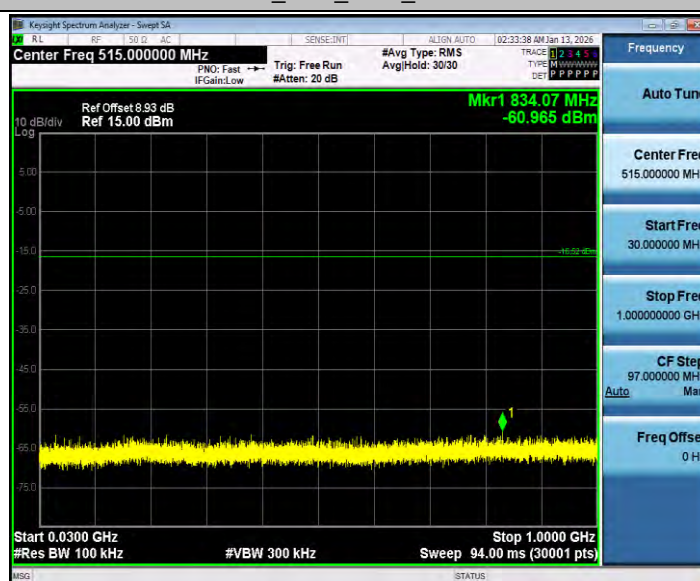
2DH1_Ant1_2480_1000~26500



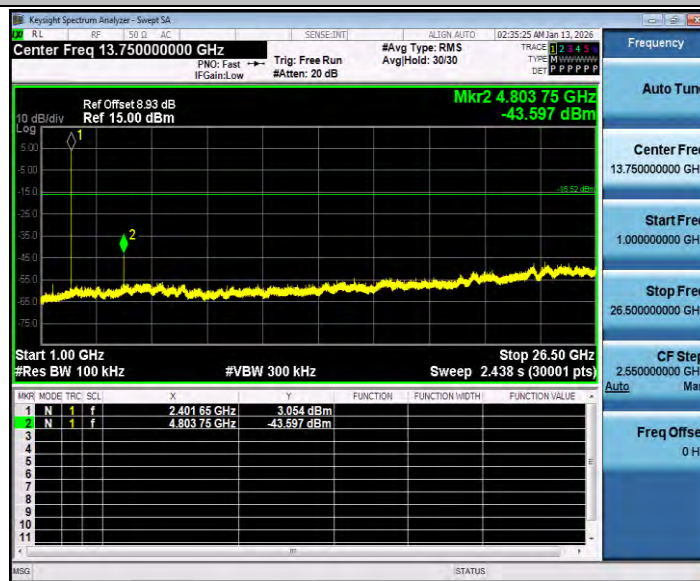
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



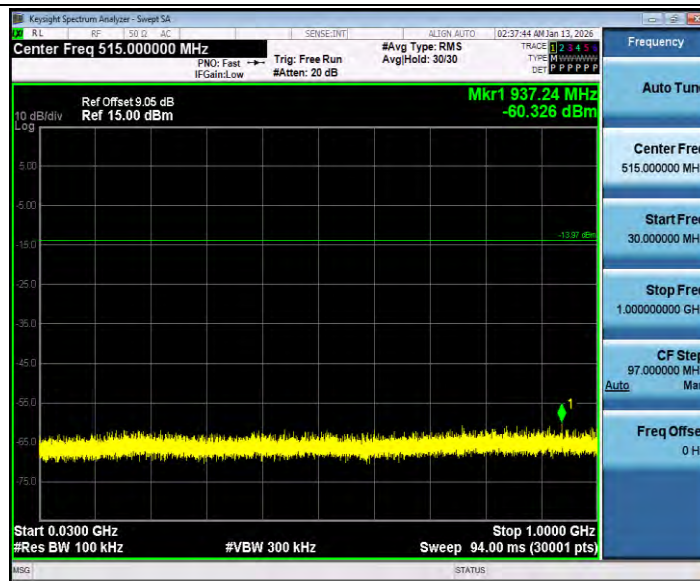
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000

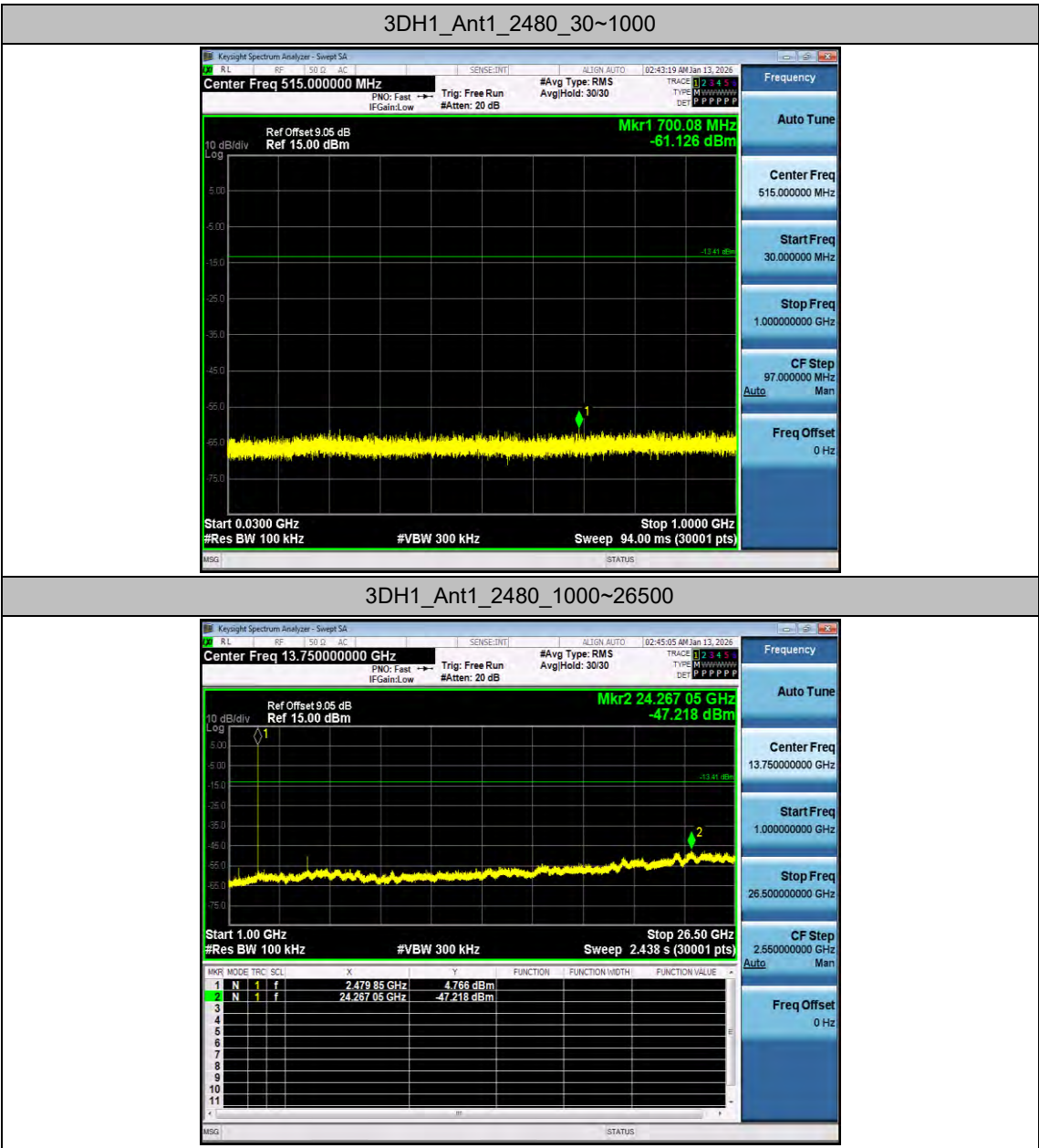


3DH1_Ant1_2441_1000~26500



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	-49.41	≤-41.20	45.79	≤54	PASS
				AV	2386.415	-48.87	≤-41.20	46.33	≤54	PASS
				AV	2390.000	-49.12	≤-41.20	46.08	≤54	PASS
				Peak	2310.000	-42.42	≤-21.20	52.78	≤74	PASS
				Peak	2374.340	-38.13	≤-21.20	57.07	≤74	PASS
				Peak	2390.000	-42.25	≤-21.20	52.95	≤74	PASS
		High	2480	AV	2483.500	-46.44	≤-41.20	48.76	≤54	PASS
				AV	2483.520	-46.44	≤-41.20	48.76	≤54	PASS
				AV	2500.000	-48.61	≤-41.20	46.59	≤54	PASS
				Peak	2483.500	-38.85	≤-21.20	56.35	≤74	PASS
				Peak	2484.080	-36.97	≤-21.20	58.23	≤74	PASS
				Peak	2500.000	-41.11	≤-21.20	54.09	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.5	≤-41.20	45.70	≤54	PASS
				AV	2388.200	-48.93	≤-41.20	46.27	≤54	PASS
				AV	2390.000	-49.07	≤-41.20	46.13	≤54	PASS
				Peak	2310.000	-41.4	≤-21.20	53.80	≤74	PASS
				Peak	2330.765	-39.07	≤-21.20	56.13	≤74	PASS
				Peak	2390.000	-41.73	≤-21.20	53.47	≤74	PASS
		High	2480	AV	2483.500	-46.81	≤-41.20	48.39	≤54	PASS
				AV	2483.520	-46.81	≤-41.20	48.39	≤54	PASS
				AV	2500.000	-48.63	≤-41.20	46.57	≤54	PASS
				Peak	2483.500	-39.15	≤-21.20	56.05	≤74	PASS
				Peak	2483.600	-36.69	≤-21.20	58.51	≤74	PASS
				Peak	2500.000	-41	≤-21.20	54.20	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.43	≤-41.20	45.77	≤54	PASS
				AV	2385.260	-48.88	≤-41.20	46.32	≤54	PASS
				AV	2390.000	-49.13	≤-41.20	46.07	≤54	PASS
				Peak	2310.000	-42.23	≤-21.20	52.97	≤74	PASS
				Peak	2368.145	-38	≤-21.20	57.20	≤74	PASS
				Peak	2390.000	-41.77	≤-21.20	53.43	≤74	PASS
		High	2480	AV	2483.500	-46.68	≤-41.20	48.52	≤54	PASS
				AV	2483.520	-46.68	≤-41.20	48.52	≤54	PASS
				AV	2500.000	-48.71	≤-41.20	46.49	≤54	PASS
				Peak	2483.500	-39.29	≤-21.20	55.91	≤74	PASS
				Peak	2483.600	-37.17	≤-21.20	58.03	≤74	PASS

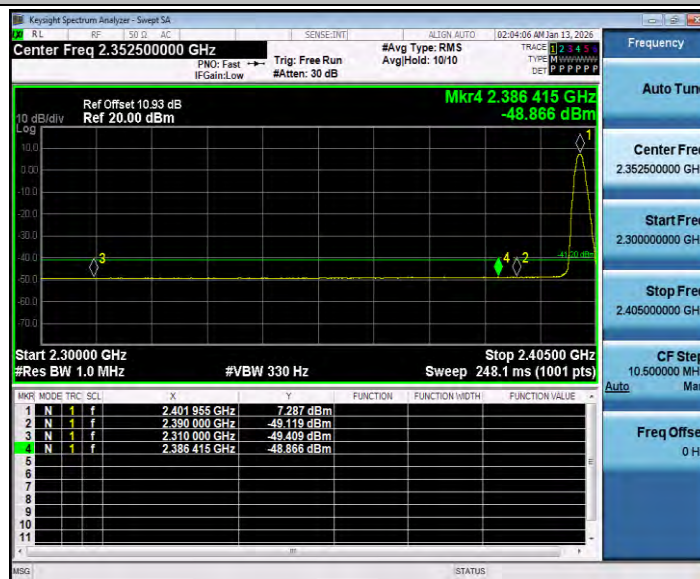
				Peak	2500.000	-40.09	≤-21.20	55.11	≤74	PASS
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Note:

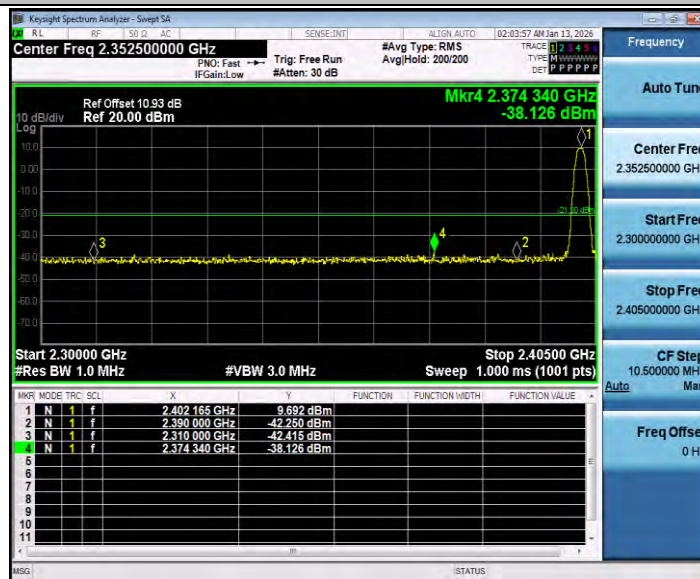
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

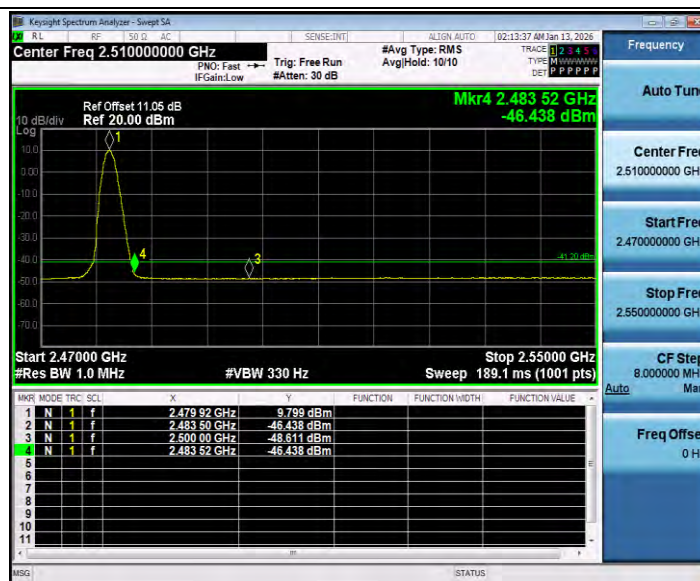
DH1_Ant1_Low_2402_AV



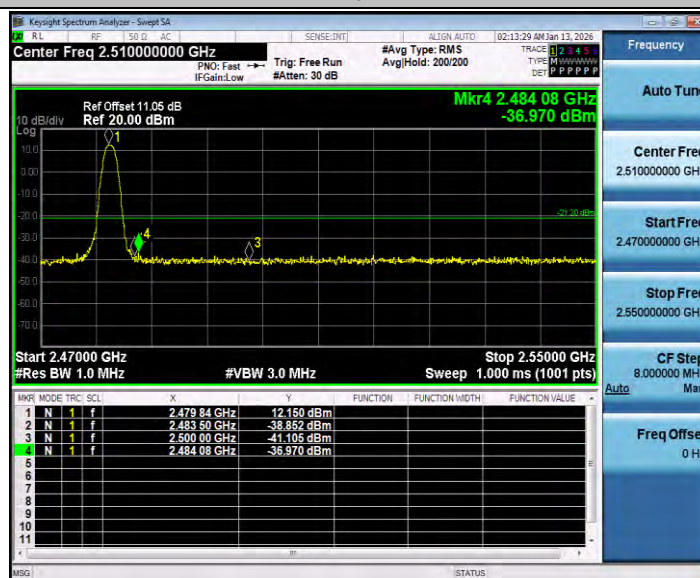
DH1_Ant1_Low_2402_Peak



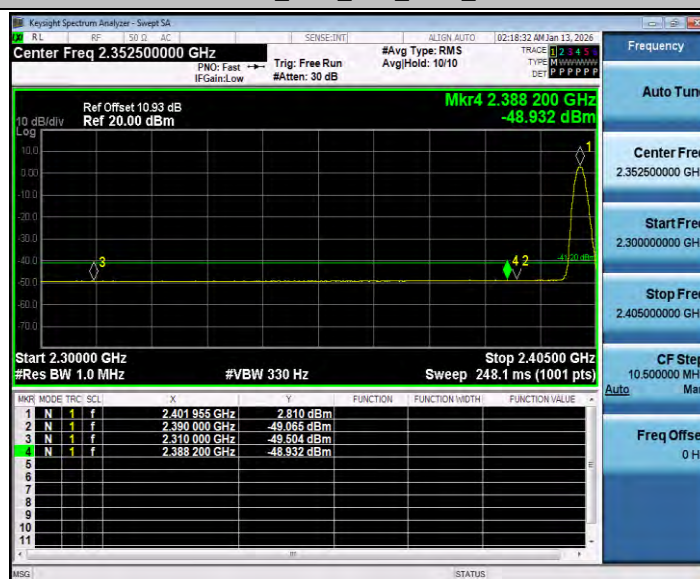
DH1_Ant1_High_2480_AV



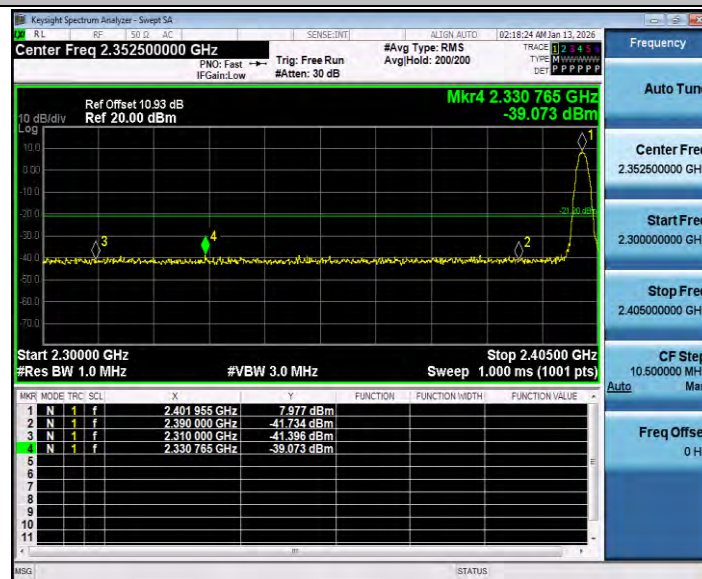
DH1_Ant1_High_2480_Peak



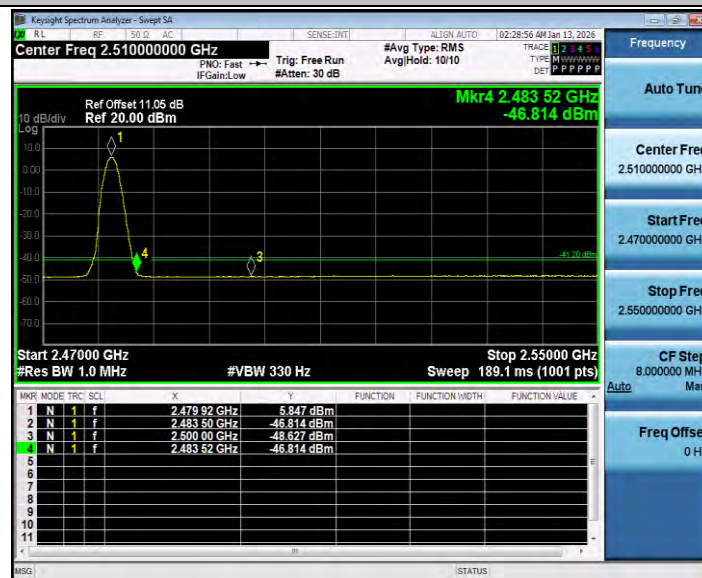
2DH1_Ant1_Low_2402_AV



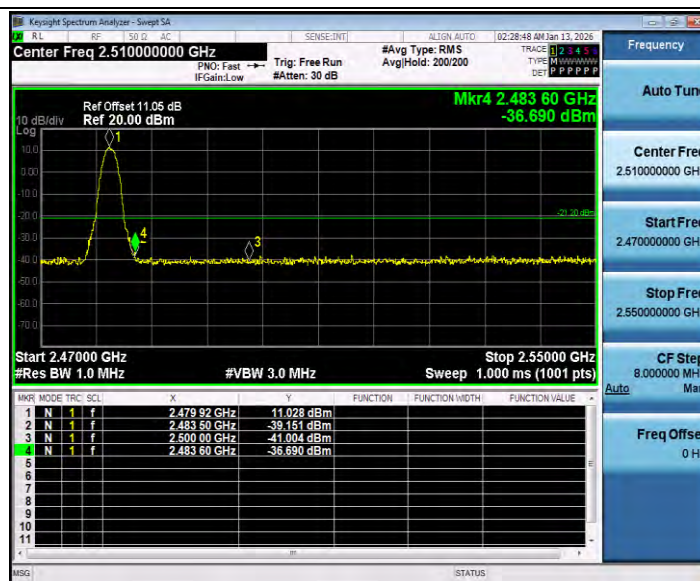
2DH1_Ant1_Low_2402_Peak



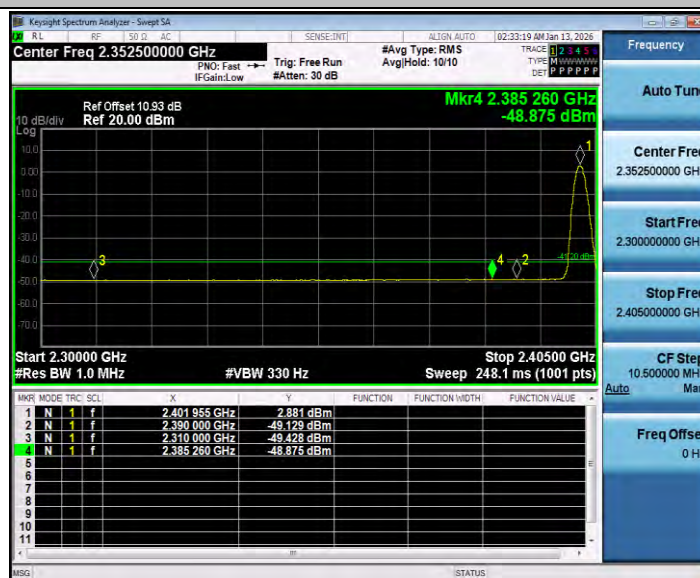
2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak



3DH1_Ant1_Low_2402_AV



3DH1_Ant1_Low_2402_Peak

