

Case No. : <u>GTS20250327003-1-1</u>	
Ambient Condition: <u>21</u> °C, <u>49</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.4.2</u>	Test Engineer: <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	0.933	2401.526	2402.459	---	---
		2441	0.993	2440.514	2441.507	---	---
		2480	1.005	2479.514	2480.519	---	---
2DH1	Ant1	2402	1.251	2401.409	2402.660	---	---
		2441	1.269	2440.403	2441.672	---	---
		2480	1.308	2479.376	2480.684	---	---
3DH1	Ant1	2402	1.221	2401.427	2402.648	---	---
		2441	1.233	2440.421	2441.654	---	---
		2480	1.233	2479.421	2480.654	---	---

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	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.87605	2401.5803	2402.4563	---	---
		2441	0.91064	2440.5505	2441.4612	---	---
		2480	0.93560	2479.5416	2480.4772	---	---
2DH1	Ant1	2402	1.1679	2401.4342	2402.6021	---	---
		2441	1.1818	2440.4268	2441.6086	---	---
		2480	1.1977	2479.4307	2480.6284	---	---
3DH1	Ant1	2402	1.1625	2401.4542	2402.6167	---	---
		2441	1.1693	2440.4488	2441.6181	---	---
		2480	1.1788	2479.4467	2480.6255	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



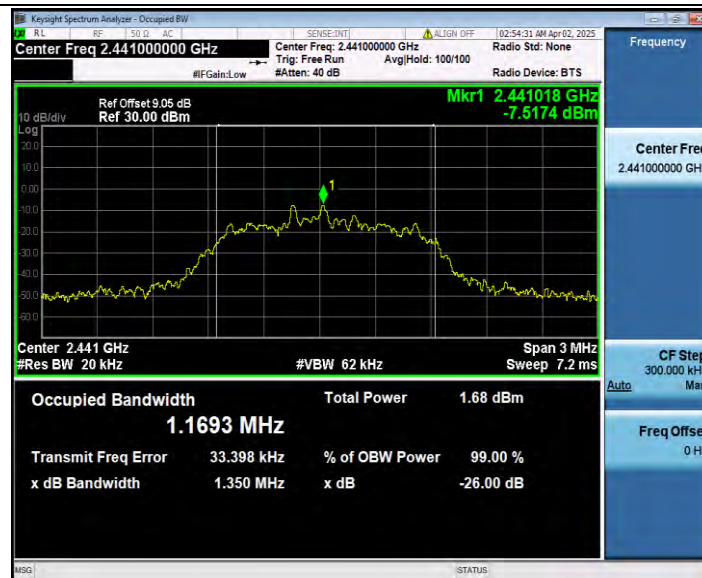
2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



3DH1_Ant1_2480



Appendix A.3: Maximum conducted output power

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	-2.86	≤ 20.97	PASS
		2441	-3.72	≤ 20.97	PASS
		2480	-4.94	≤ 20.97	PASS
2DH1	Ant1	2402	-2.34	≤ 20.97	PASS
		2441	-3.20	≤ 20.97	PASS
		2480	-4.40	≤ 20.97	PASS
3DH1	Ant1	2402	-1.93	≤ 20.97	PASS
		2441	-2.82	≤ 20.97	PASS
		2480	-4.11	≤ 20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.686	≥ 0.670	PASS
		Hop_2441	1.02	≥ 0.670	PASS
		Hop_2480	0.996	≥ 0.670	PASS
2DH1	Ant1	Hop_2402	0.992	≥ 0.872	PASS
		Hop_2441	1.008	≥ 0.872	PASS
		Hop_2480	1.002	≥ 0.872	PASS
3DH1	Ant1	Hop_2402	1.014	≥ 0.822	PASS
		Hop_2441	0.978	≥ 0.822	PASS
		Hop_2480	1.138	≥ 0.822	PASS

Test Graphs

DH1_Ant1_Hop_2402



DH1_Ant1_Hop_2441



DH1_Ant1_Hop_2480



2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441



3DH1_Ant1_Hop_2480

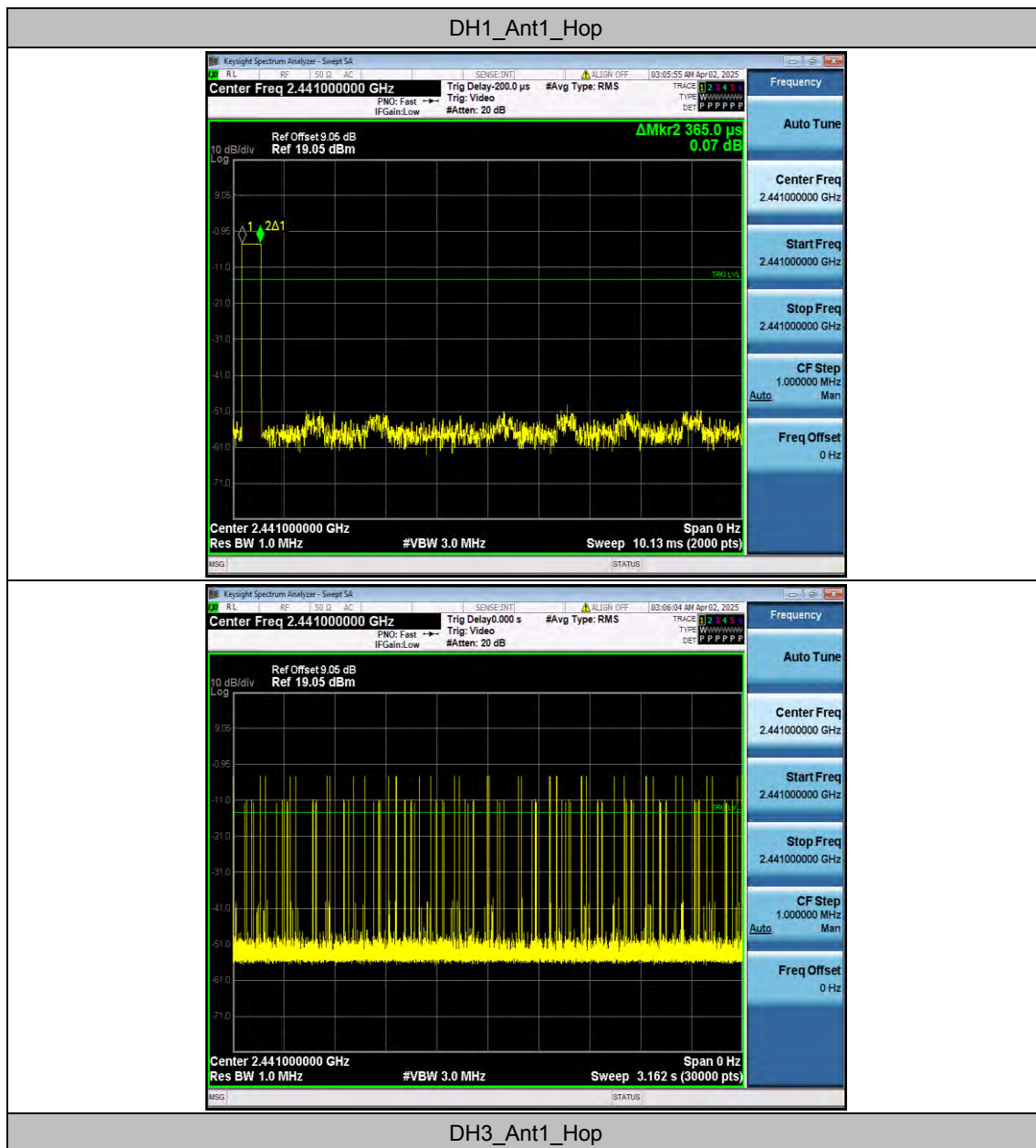


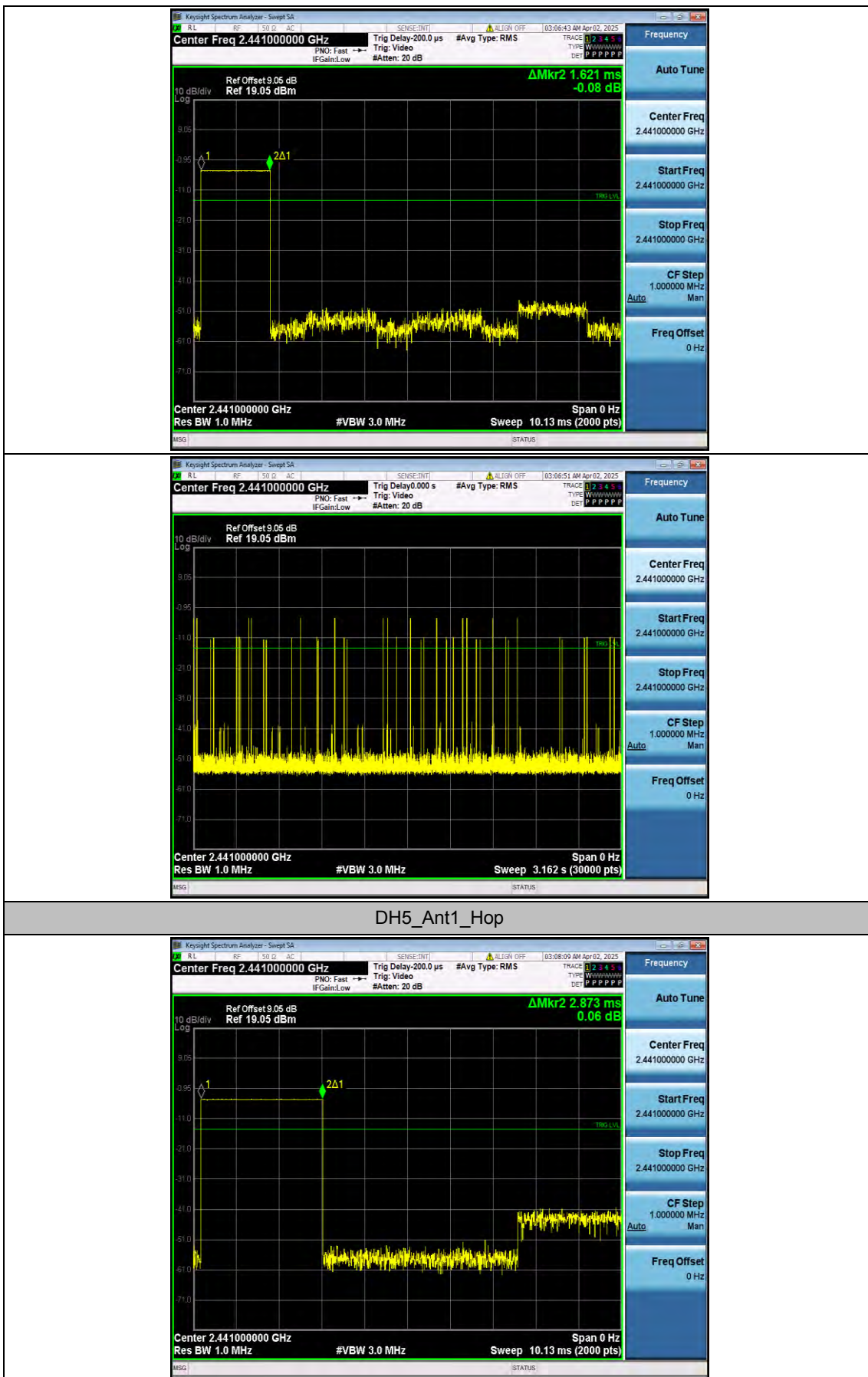
Appendix A.5: Time of occupancy

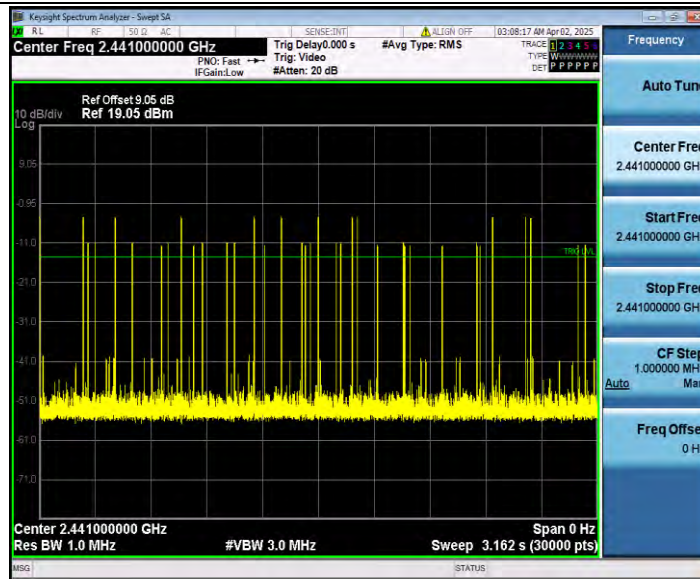
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.365	330	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.621	140	0.227	≤0.4	PASS
DH5	Ant1	Hop	2.873	120	0.345	≤0.4	PASS
2DH1	Ant1	Hop	0.380	670	0.255	≤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	0.380	330	0.125	≤0.4	PASS
3DH3	Ant1	Hop	1.626	170	0.276	≤0.4	PASS
3DH5	Ant1	Hop	2.873	90	0.259	≤0.4	PASS

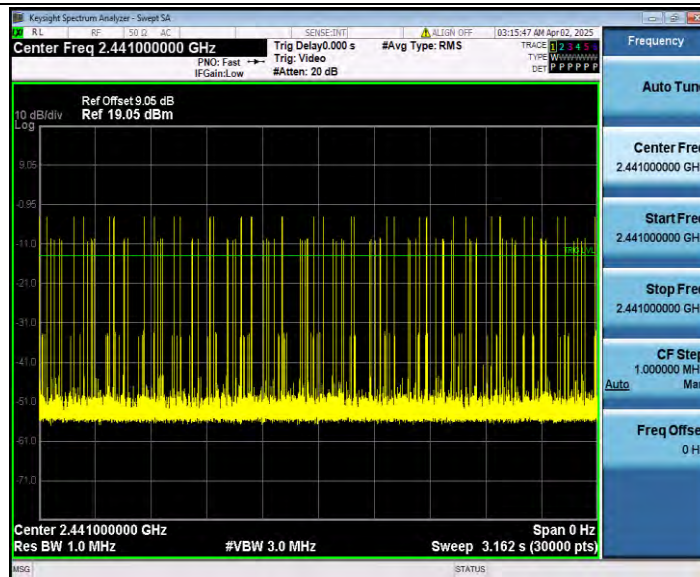
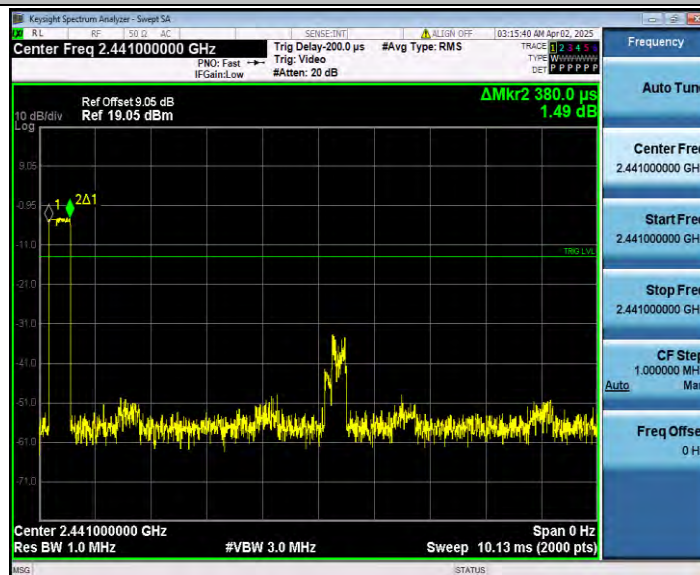
Test Graphs



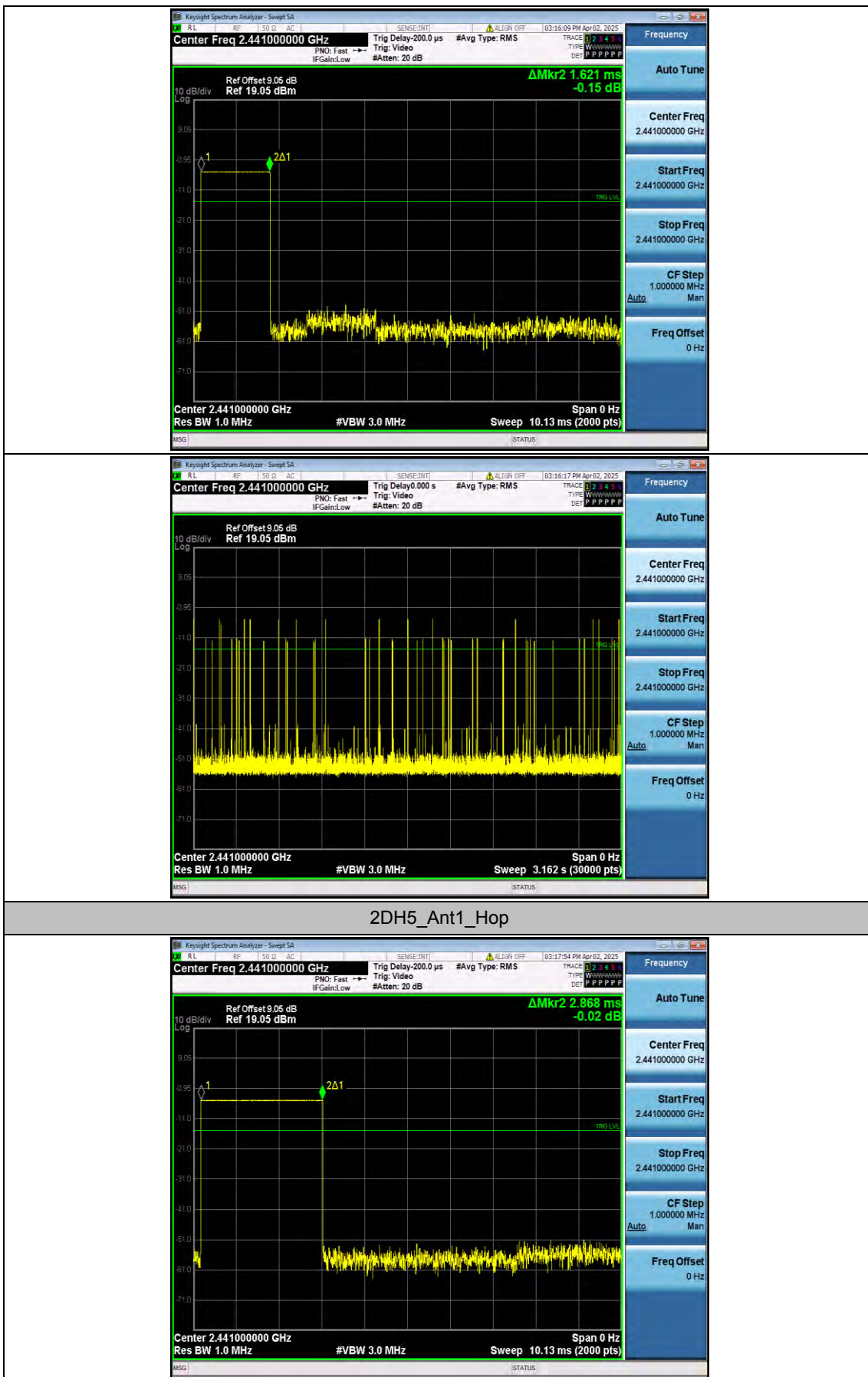


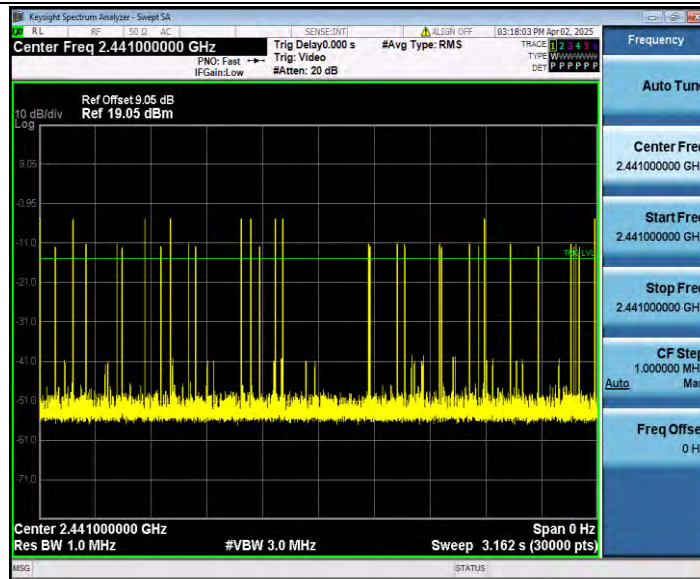


2DH1_Ant1_Hop

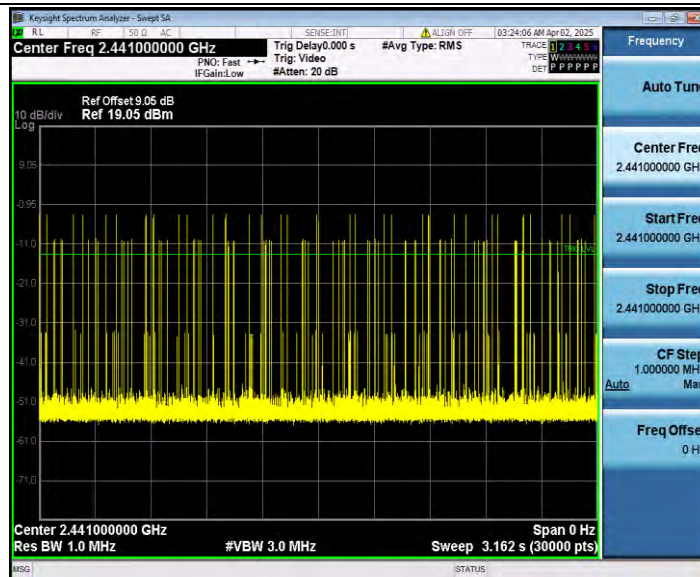
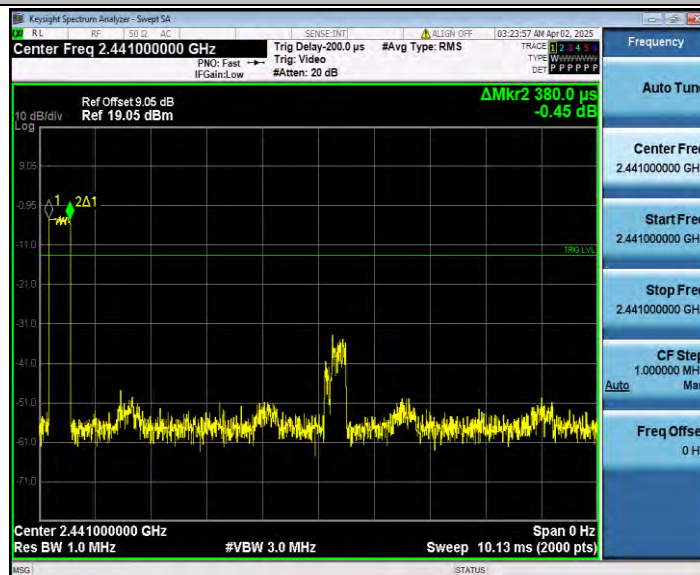


2DH3_Ant1_Hop

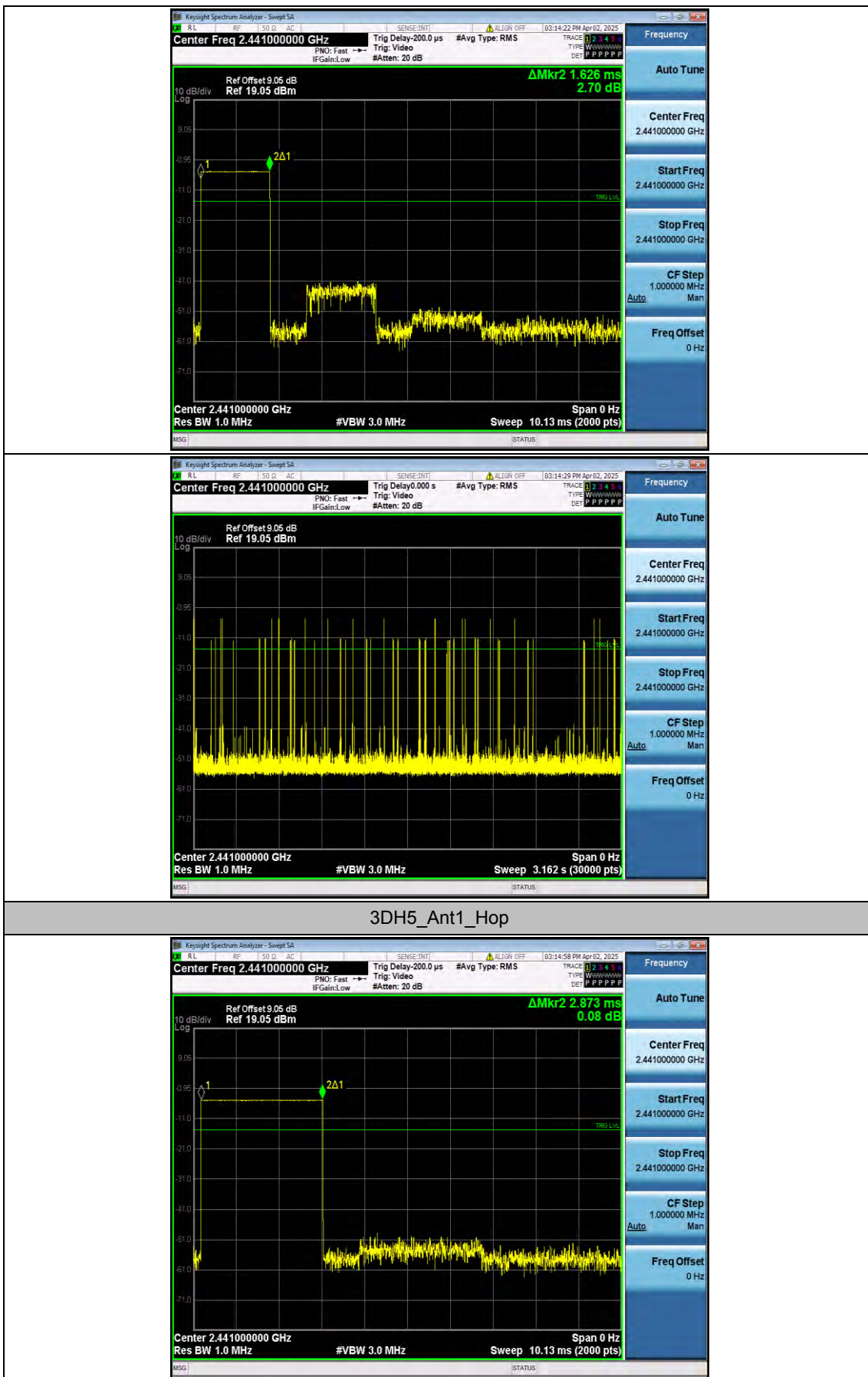


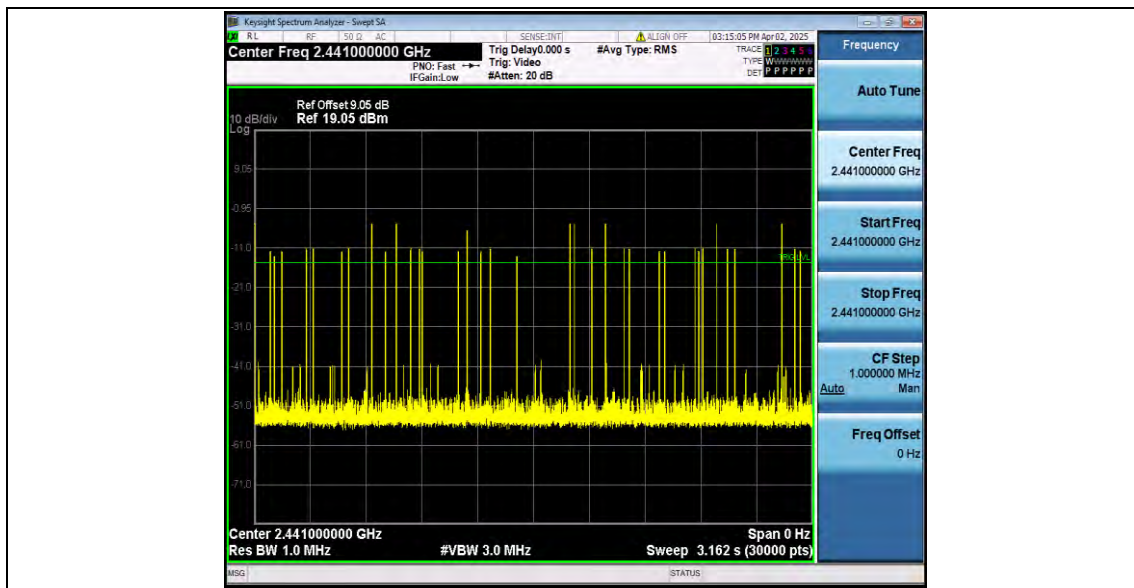


3DH1_Ant1_Hop



3DH3_Ant1_Hop



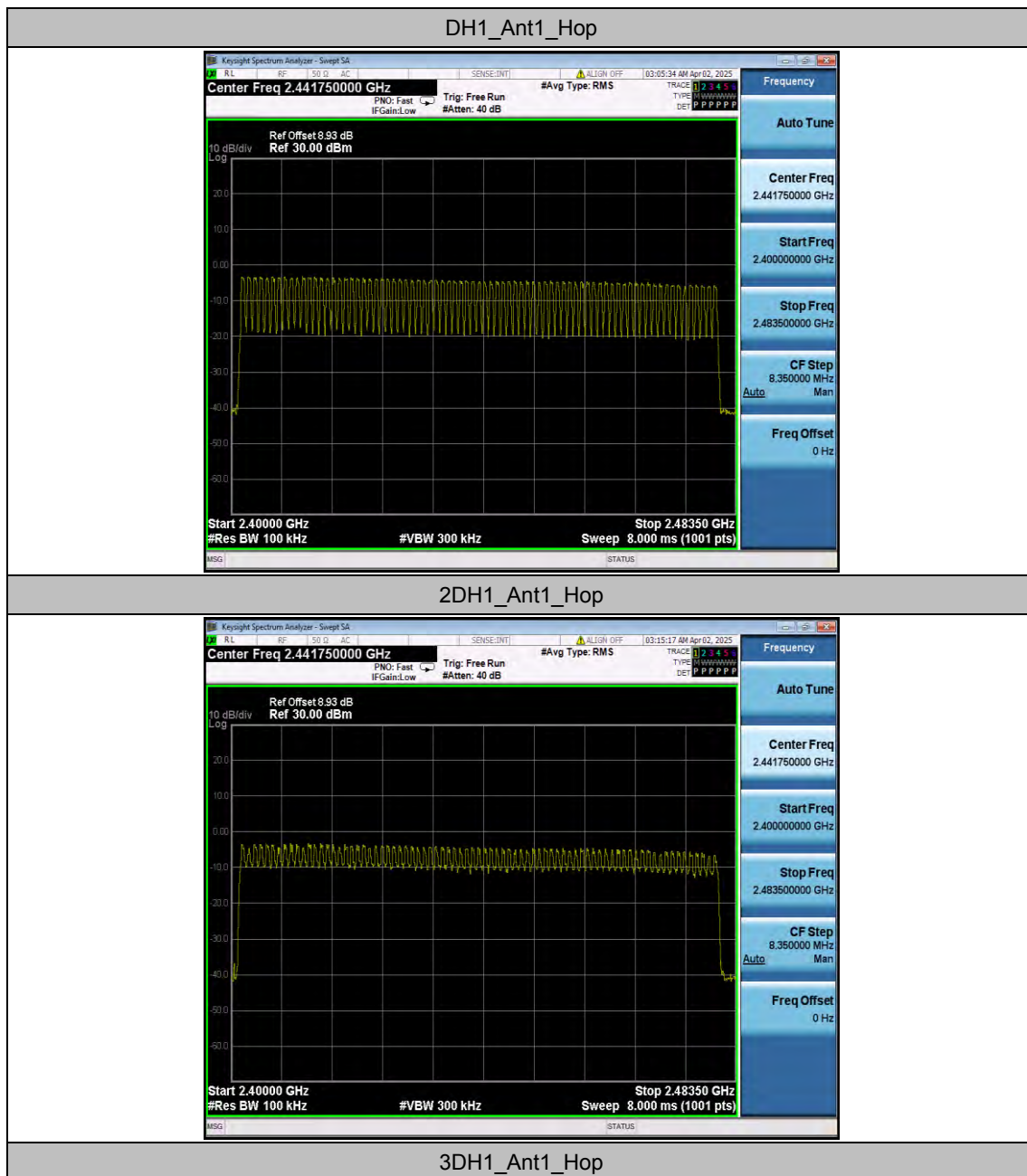


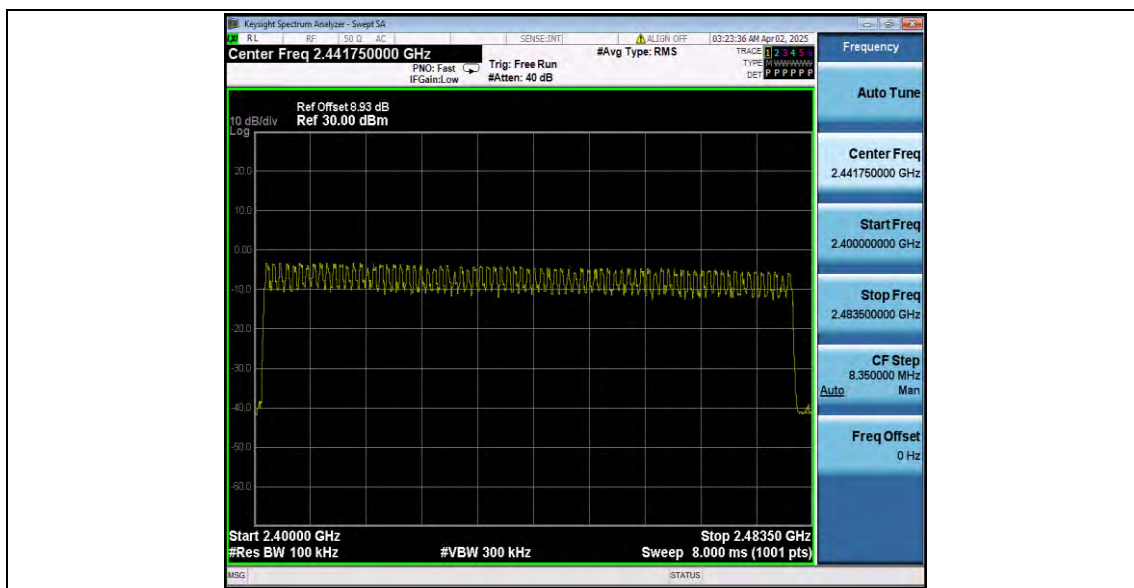
Appendix A.6: Number of hopping channels

Test Result

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

Test Graphs





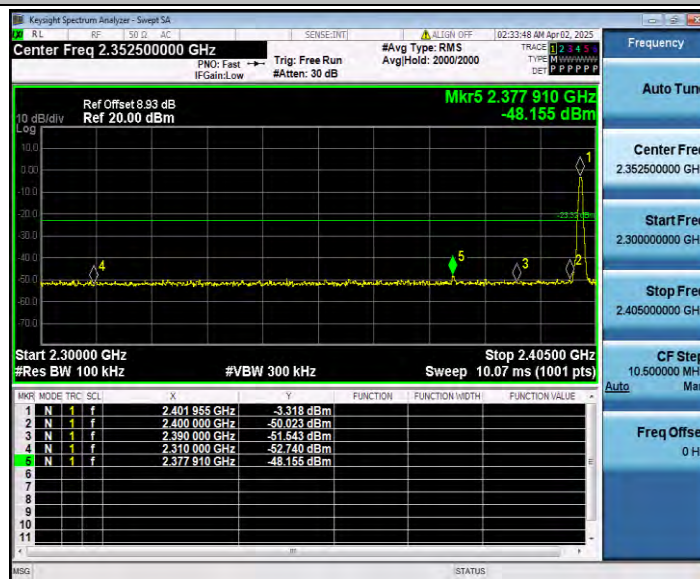
Appendix A.7: Band edge measurements

Test Result

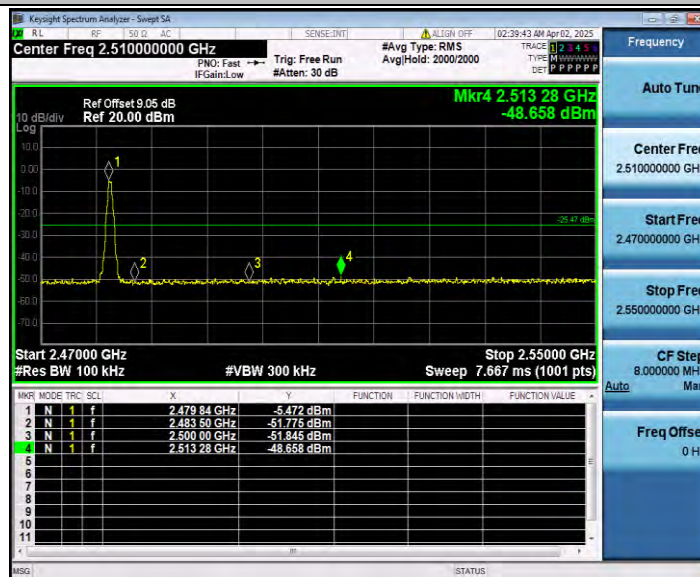
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	-3.32	-48.16	≤ -23.32	PASS
		High	2480	-5.47	-48.66	≤ -25.47	PASS
		Low	Hop_2402	-3.48	-29.07	≤ -23.48	PASS
		High	Hop_2480	-5.74	-47.95	≤ -25.74	PASS
2DH1	Ant1	Low	2402	-3.31	-48.23	≤ -23.31	PASS
		High	2480	-5.35	-49.3	≤ -25.35	PASS
		Low	Hop_2402	-3.85	-39.3	≤ -23.85	PASS
		High	Hop_2480	-5.45	-48.72	≤ -25.45	PASS
3DH1	Ant1	Low	2402	-3.23	-33.17	≤ -23.23	PASS
		High	2480	-5.60	-48.47	≤ -25.6	PASS
		Low	Hop_2402	-3.50	-43.69	≤ -23.5	PASS
		High	Hop_2480	-5.81	-47.95	≤ -25.81	PASS

Test Graphs

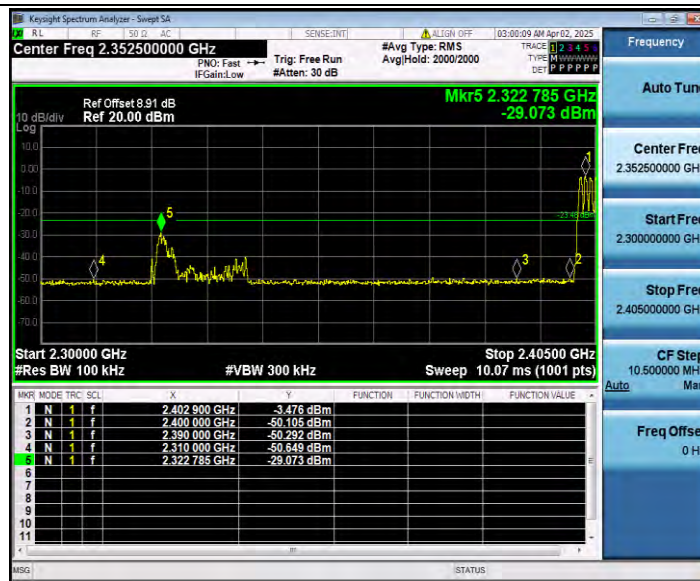
DH1_Ant1_Low_2402



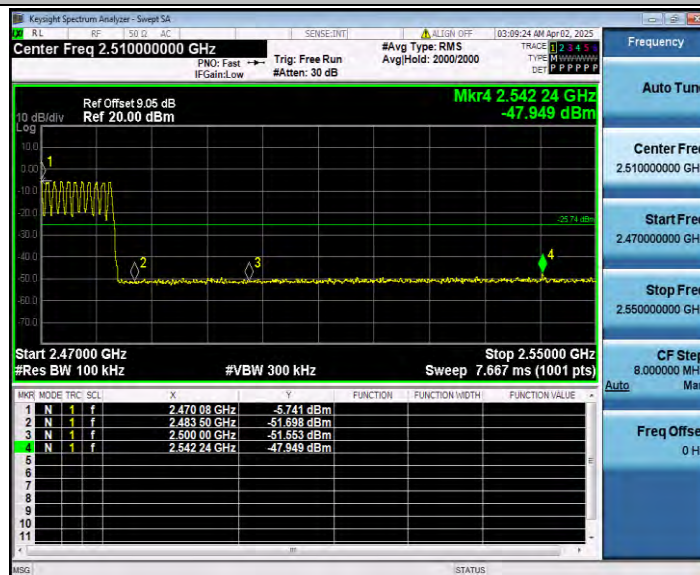
DH1_Ant1_High_2480



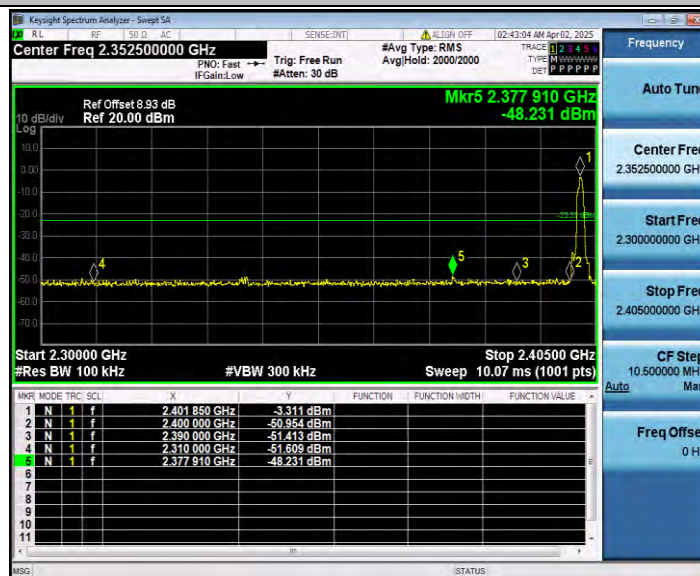
DH1_Ant1_Low_Hop_2402



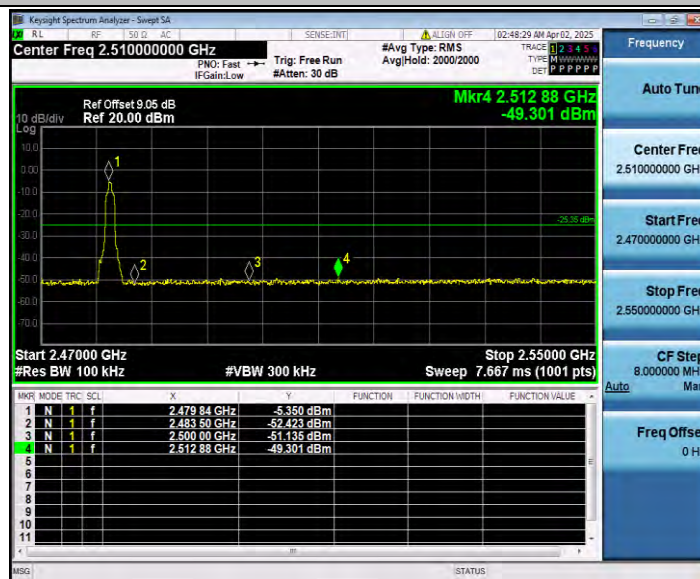
DH1_Ant1_High_Hop_2480



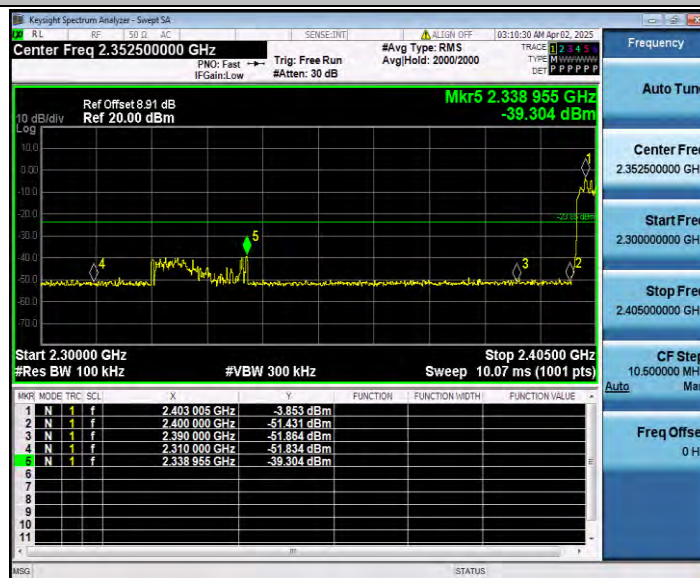
2DH1_Ant1_Low_2402



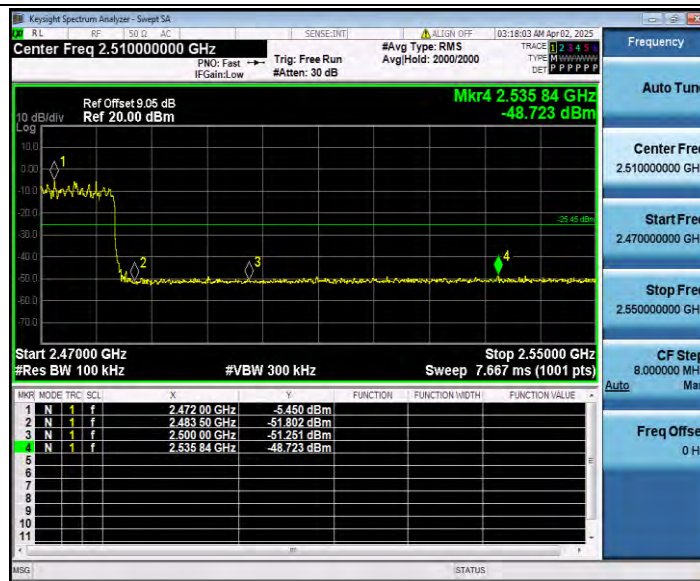
2DH1_Ant1_High_2480



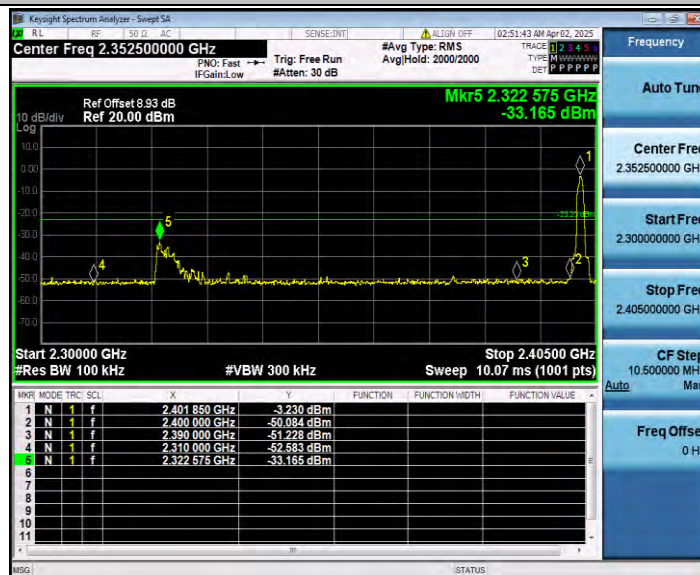
2DH1_Ant1_Low_Hop_2402



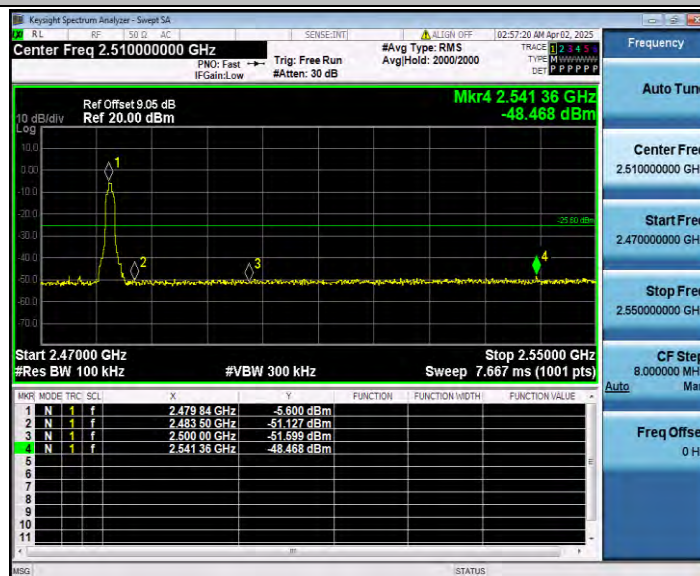
2DH1_Ant1_High_Hop_2480



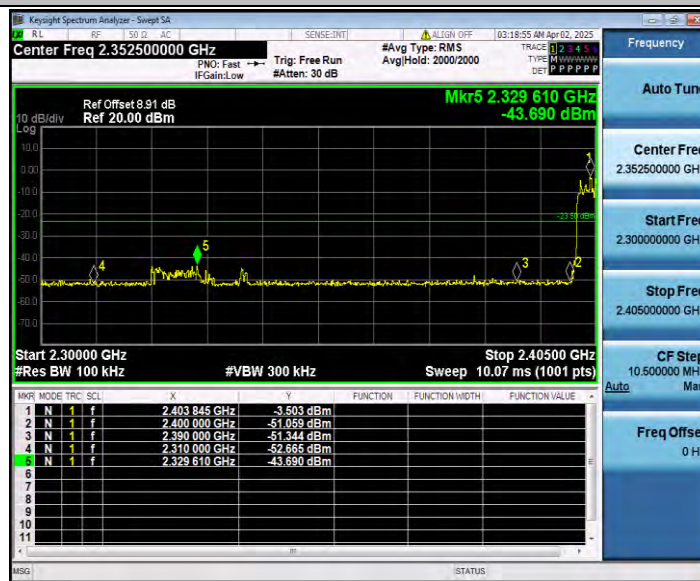
3DH1_Ant1_Low_2402



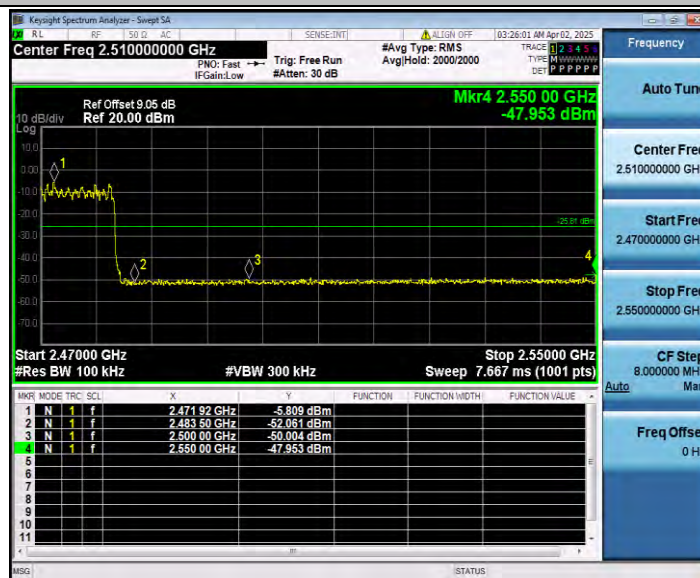
3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

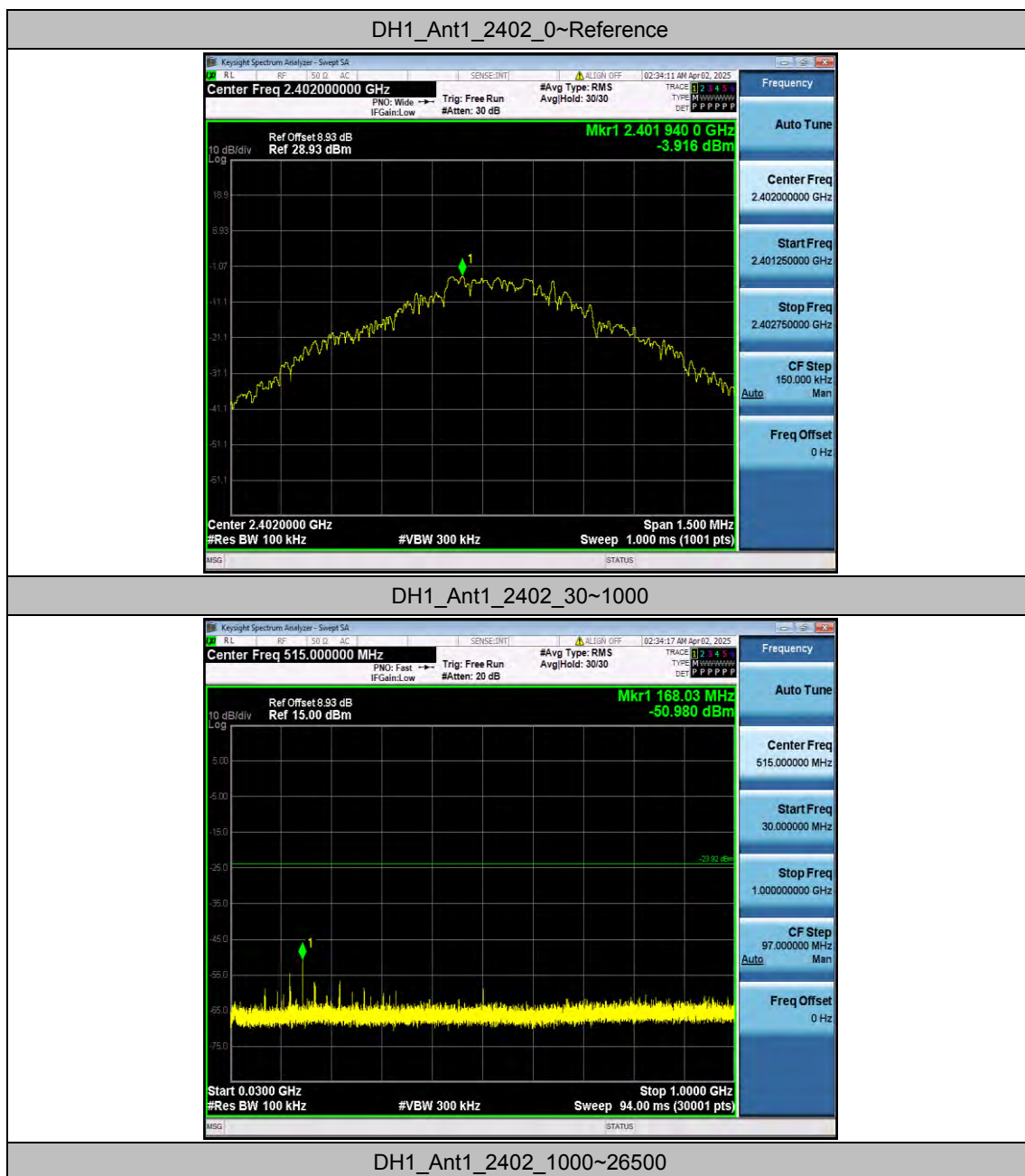


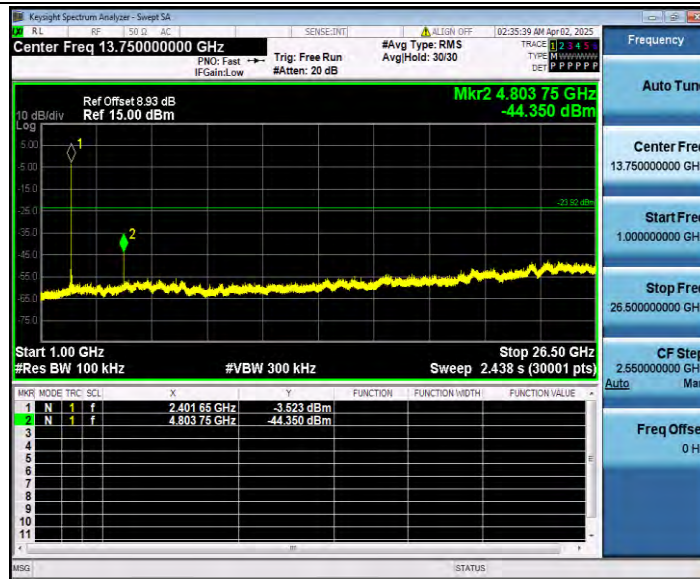
Appendix A.8: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	-3.92	-3.92	---	PASS
			30~1000	-3.92	-50.98	≤ -23.92	PASS
			1000~26500	-3.92	-44.35	≤ -23.92	PASS
		2441	Reference	-4.47	-4.47	---	PASS
			30~1000	-4.47	-50.54	≤ -24.47	PASS
			1000~26500	-4.47	-42.23	≤ -24.47	PASS
		2480	Reference	-5.97	-5.97	---	PASS
			30~1000	-5.97	-51.6	≤ -25.97	PASS
			1000~26500	-5.97	-41.68	≤ -25.97	PASS
2DH1	Ant1	2402	Reference	-3.49	-3.49	---	PASS
			30~1000	-3.49	-50.57	≤ -23.49	PASS
			1000~26500	-3.49	-47.71	≤ -23.49	PASS
		2441	Reference	-5.29	-5.29	---	PASS
			30~1000	-5.29	-50.47	≤ -25.29	PASS
			1000~26500	-5.29	-45.03	≤ -25.29	PASS
		2480	Reference	-6.54	-6.54	---	PASS
			30~1000	-6.54	-50.72	≤ -26.54	PASS
			1000~26500	-6.54	-41.78	≤ -26.54	PASS
3DH1	Ant1	2402	Reference	-3.35	-3.35	---	PASS
			30~1000	-3.35	-51.11	≤ -23.35	PASS
			1000~26500	-3.35	-34.84	≤ -23.35	PASS
		2441	Reference	-4.67	-4.67	---	PASS
			30~1000	-4.67	-51	≤ -24.67	PASS
			1000~26500	-4.67	-43.2	≤ -24.67	PASS
		2480	Reference	-5.72	-5.72	---	PASS
			30~1000	-5.72	-51.07	≤ -25.72	PASS
			1000~26500	-5.72	-40.74	≤ -25.72	PASS

Test Graphs

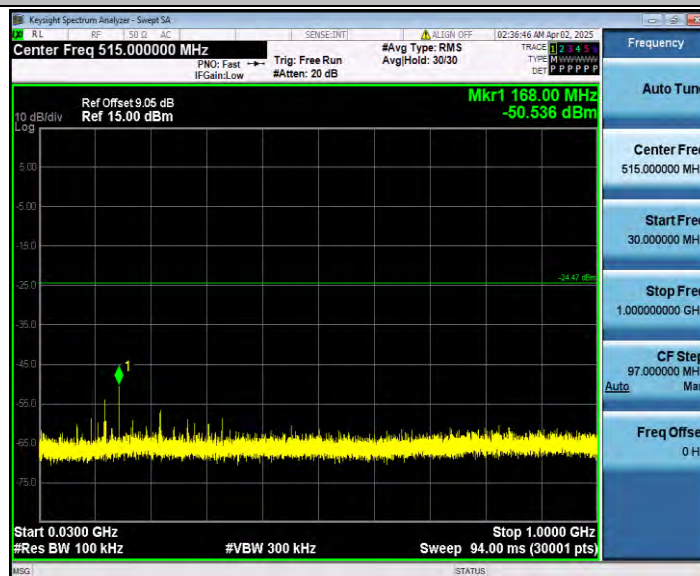




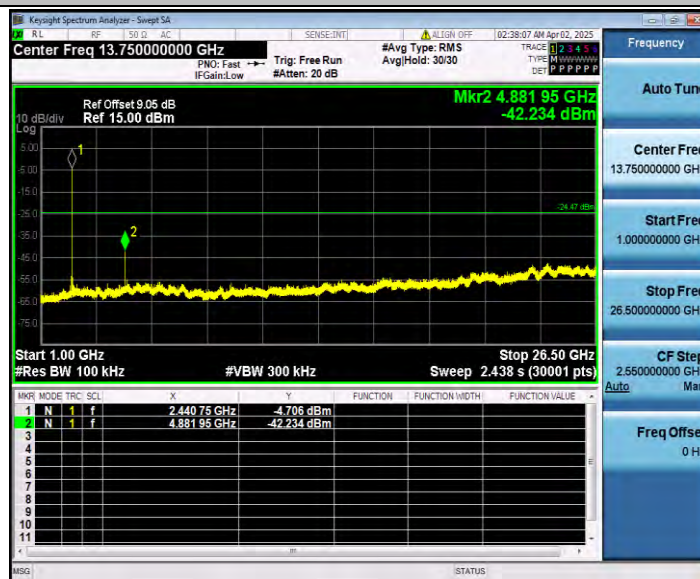
DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



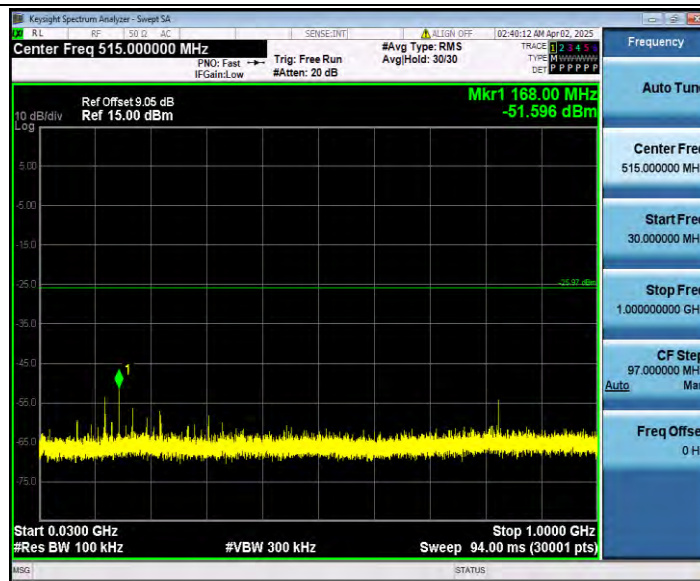
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000

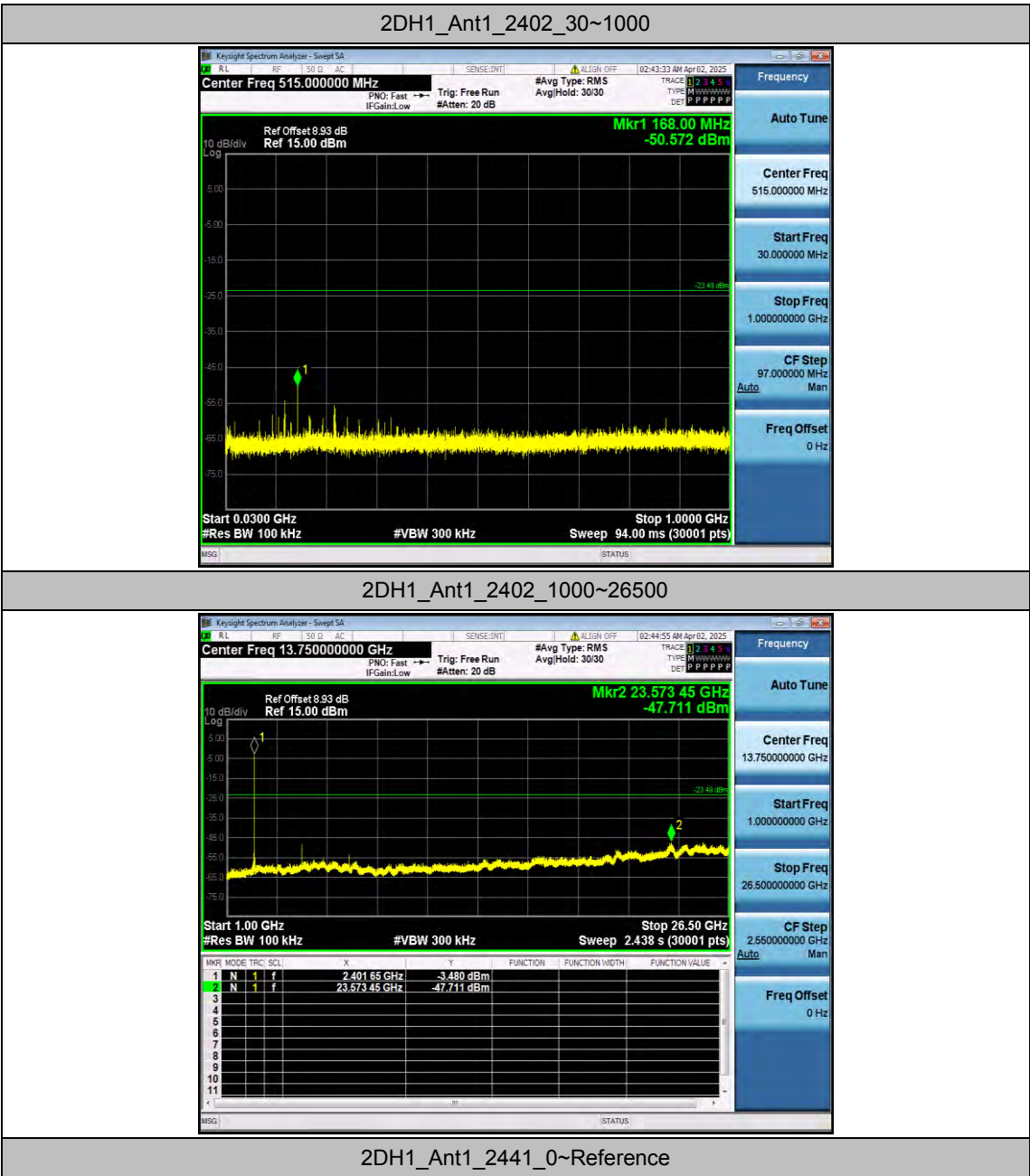


DH1_Ant1_2480_1000~26500



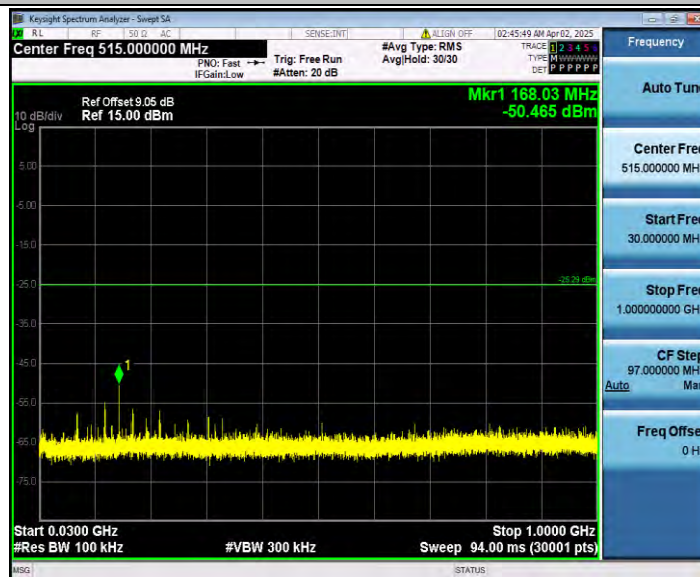
2DH1_Ant1_2402_0~Reference







2DH1_Ant1_2441_30~1000



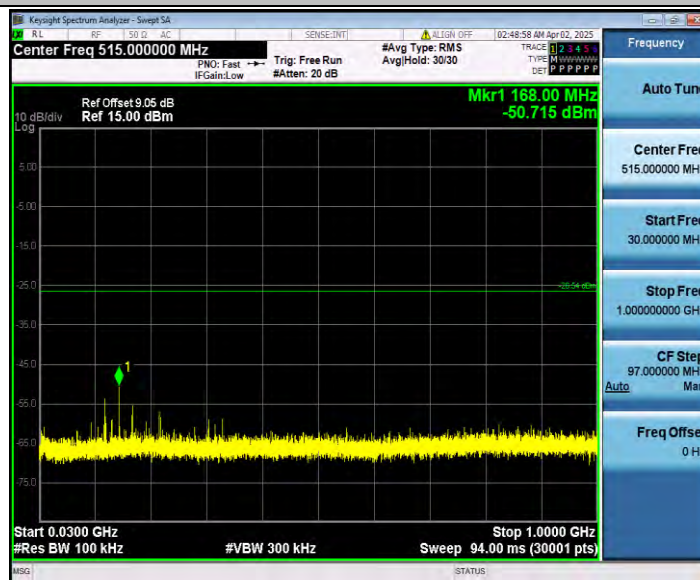
2DH1_Ant1_2441_1000~26500



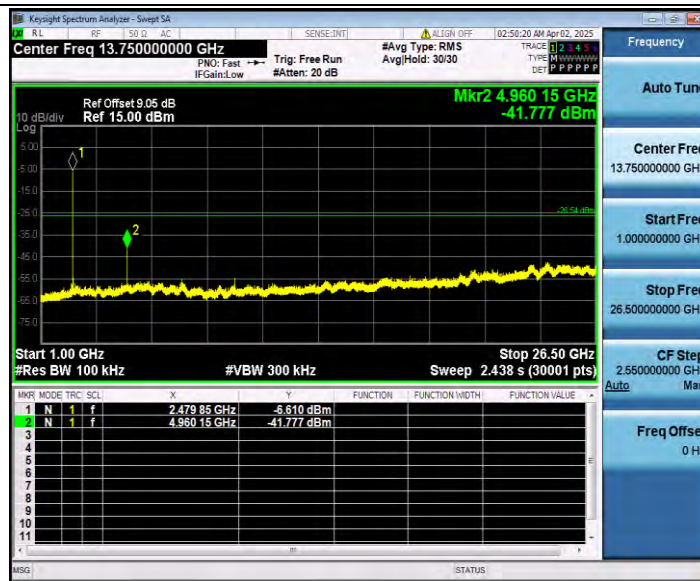
2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



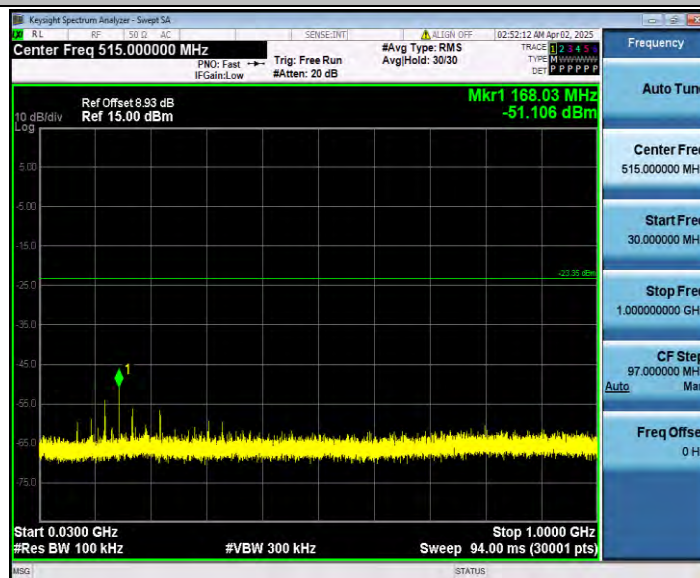
2DH1_Ant1_2480_1000~26500



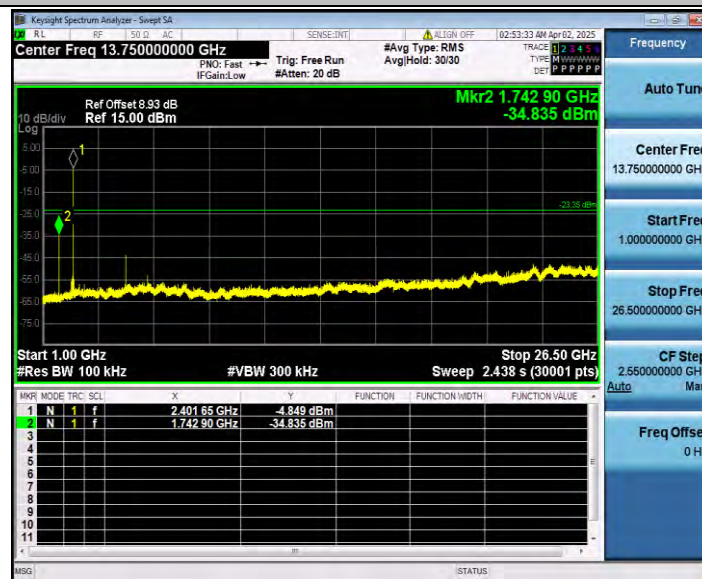
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



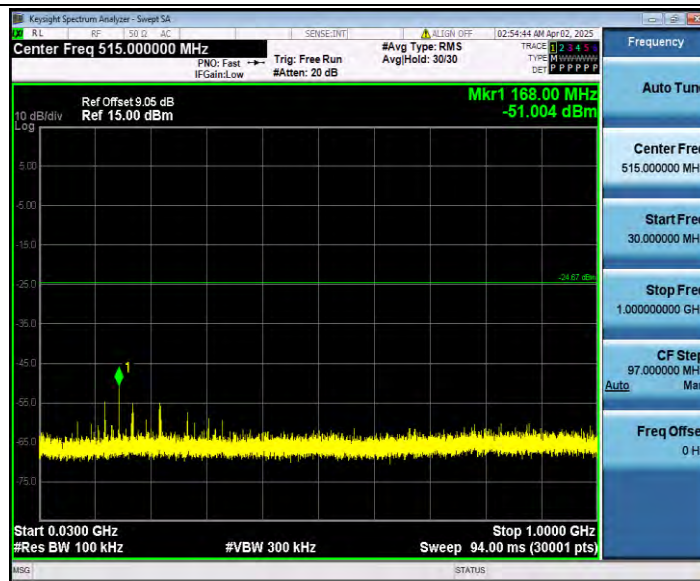
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000

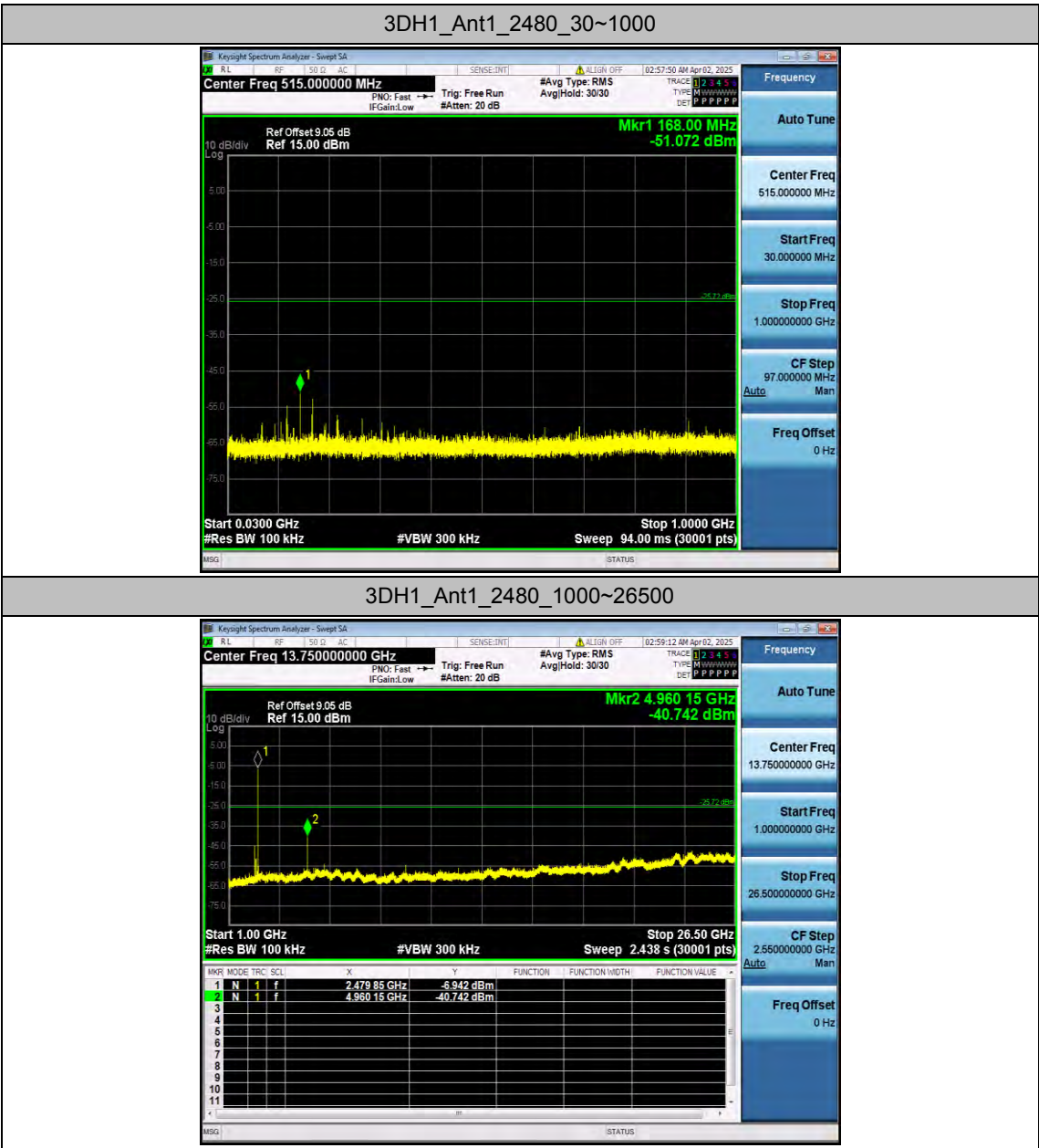


3DH1_Ant1_2441_1000~26500



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	-49.63	≤-41.20	45.57	≤54	PASS
				AV	2378.015	-48.03	≤-41.20	47.17	≤54	PASS
				AV	2390.000	-49.14	≤-41.20	46.06	≤54	PASS
				Peak	2310.000	-46.1	≤-21.20	49.10	≤74	PASS
				Peak	2326.565	-39.35	≤-21.20	55.85	≤74	PASS
				Peak	2390.000	-40.84	≤-21.20	54.36	≤74	PASS
		High	2480	AV	2483.500	-48.98	≤-41.20	46.22	≤54	PASS
				AV	2499.920	-48.65	≤-41.20	46.55	≤54	PASS
				AV	2500.000	-48.6	≤-41.20	46.60	≤54	PASS
				Peak	2483.500	-41.7	≤-21.20	53.50	≤74	PASS
				Peak	2487.680	-39.22	≤-21.20	55.98	≤74	PASS
				Peak	2500.000	-40.27	≤-21.20	54.93	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.45	≤-41.20	45.75	≤54	PASS
				AV	2377.805	-48.29	≤-41.20	46.91	≤54	PASS
				AV	2390.000	-48.93	≤-41.20	46.27	≤54	PASS
				Peak	2310.000	-41.63	≤-21.20	53.57	≤74	PASS
				Peak	2367.095	-38.06	≤-21.20	57.14	≤74	PASS
				Peak	2390.000	-41.77	≤-21.20	53.43	≤74	PASS
		High	2480	AV	2483.500	-48.98	≤-41.20	46.22	≤54	PASS
				AV	2496.400	-48.68	≤-41.20	46.52	≤54	PASS
				AV	2500.000	-48.76	≤-41.20	46.44	≤54	PASS
				Peak	2483.500	-40.51	≤-21.20	54.69	≤74	PASS
				Peak	2493.680	-39.31	≤-21.20	55.89	≤74	PASS
				Peak	2500.000	-40.13	≤-21.20	55.07	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.56	≤-41.20	45.64	≤54	PASS
				AV	2324.150	-43.77	≤-41.20	51.43	≤54	PASS
				AV	2390.000	-49.07	≤-41.20	46.13	≤54	PASS
				Peak	2310.000	-43.03	≤-21.20	52.17	≤74	PASS
				Peak	2328.035	-33.19	≤-21.20	62.01	≤74	PASS
				Peak	2390.000	-41.6	≤-21.20	53.60	≤74	PASS
		High	2480	AV	2483.500	-48.94	≤-41.20	46.26	≤54	PASS
				AV	2496.240	-48.64	≤-41.20	46.56	≤54	PASS
				AV	2500.000	-48.73	≤-41.20	46.47	≤54	PASS
				Peak	2483.500	-41.63	≤-21.20	53.57	≤74	PASS
				Peak	2494.560	-38.77	≤-21.20	56.43	≤74	PASS

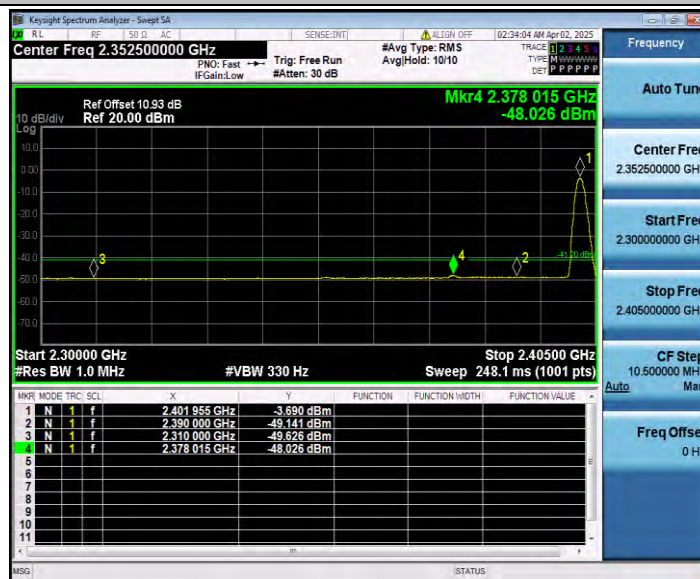
				Peak	2500.000	-40.71	≤ -21.20	54.49	≤ 74	PASS
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Note:

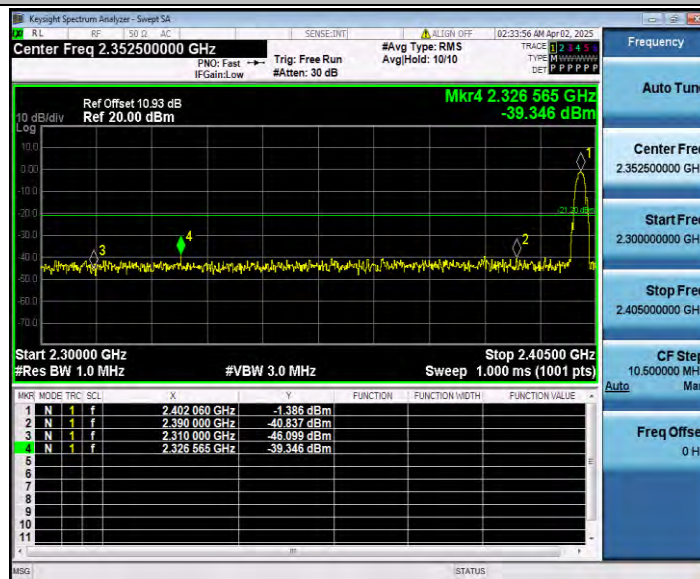
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

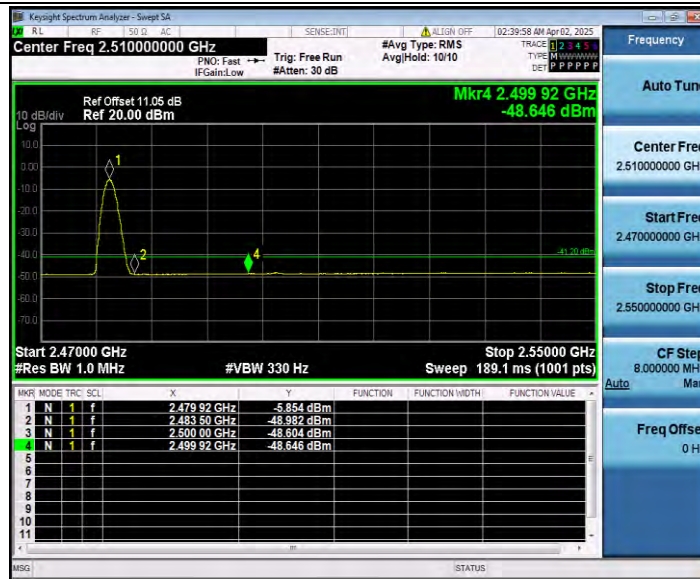
DH1_Ant1_Low_2402_AV



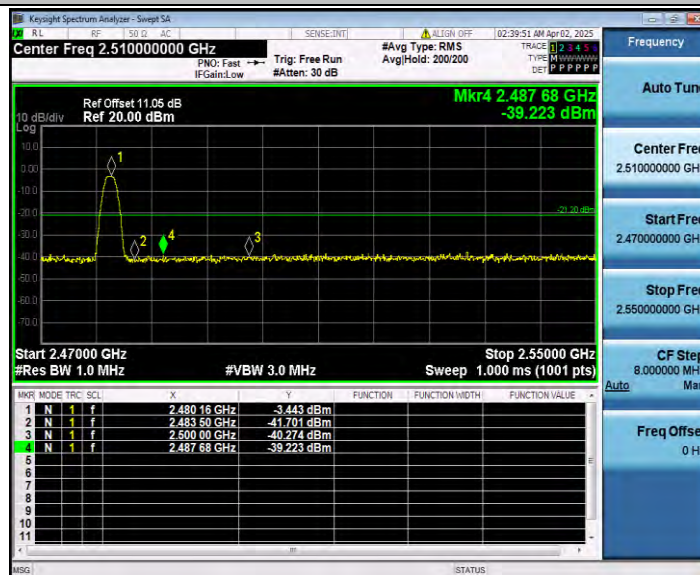
DH1_Ant1_Low_2402_Peak



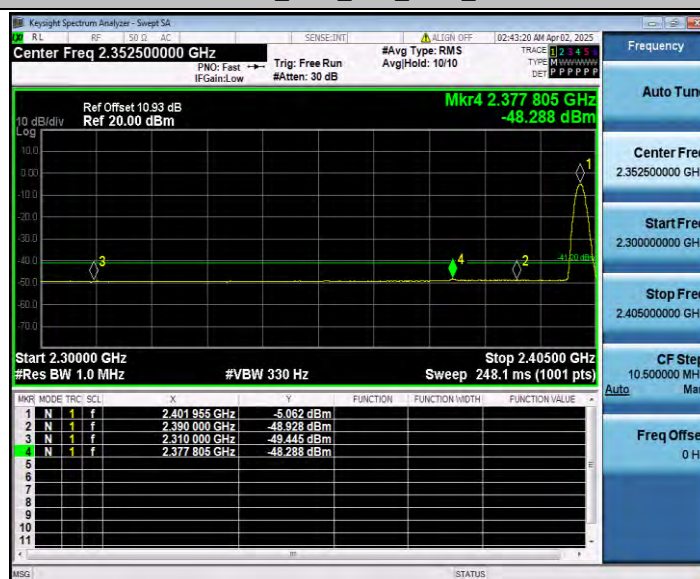
DH1_Ant1_High_2480_AV



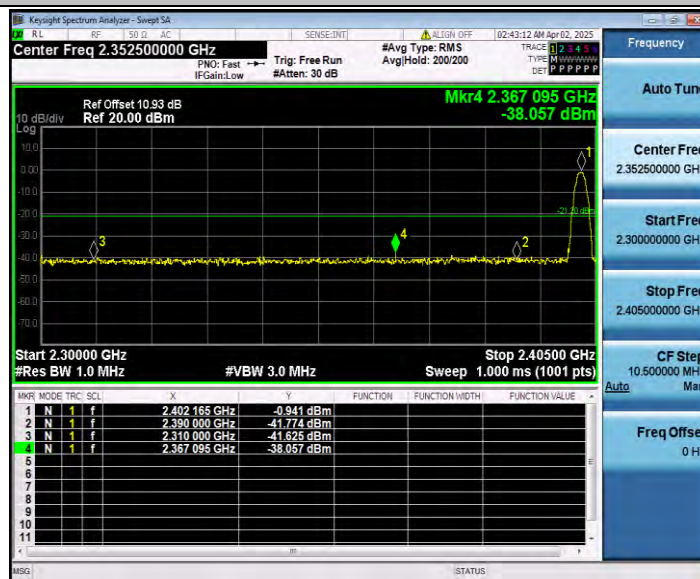
DH1_Ant1_High_2480_Peak



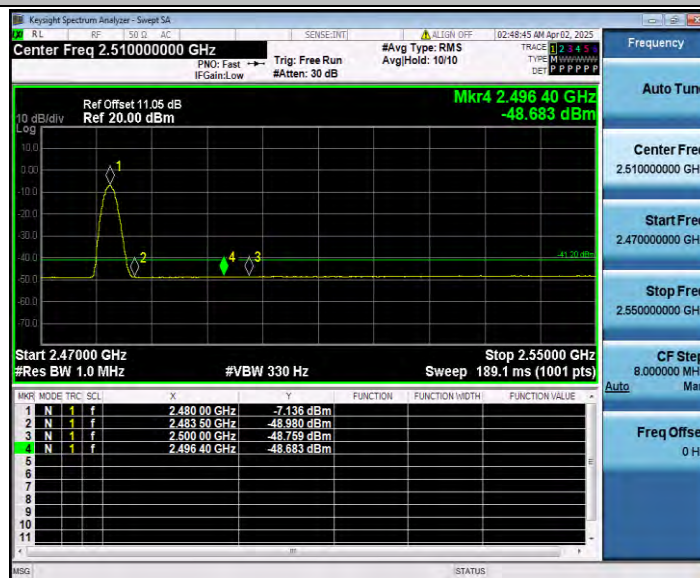
2DH1_Ant1_Low_2402_AV



2DH1_Ant1_Low_2402_Peak



2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak

