

Case No. : <u>GTS20250219002-1-03</u>	
Ambient Condition: <u>22</u> °C, <u>53</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.3.13</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	0.939	2401.517	2402.456	---	---
		2441	0.945	2440.514	2441.459	---	---
		2480	0.930	2479.529	2480.459	---	---
2DH1	Ant1	2402	1.317	2401.316	2402.633	---	---
		2441	1.290	2440.328	2441.618	---	---
		2480	1.308	2479.322	2480.630	---	---
3DH1	Ant1	2402	1.272	2401.349	2402.621	---	---
		2441	1.278	2440.346	2441.624	---	---
		2480	1.290	2479.334	2480.624	---	---

Test Graphs

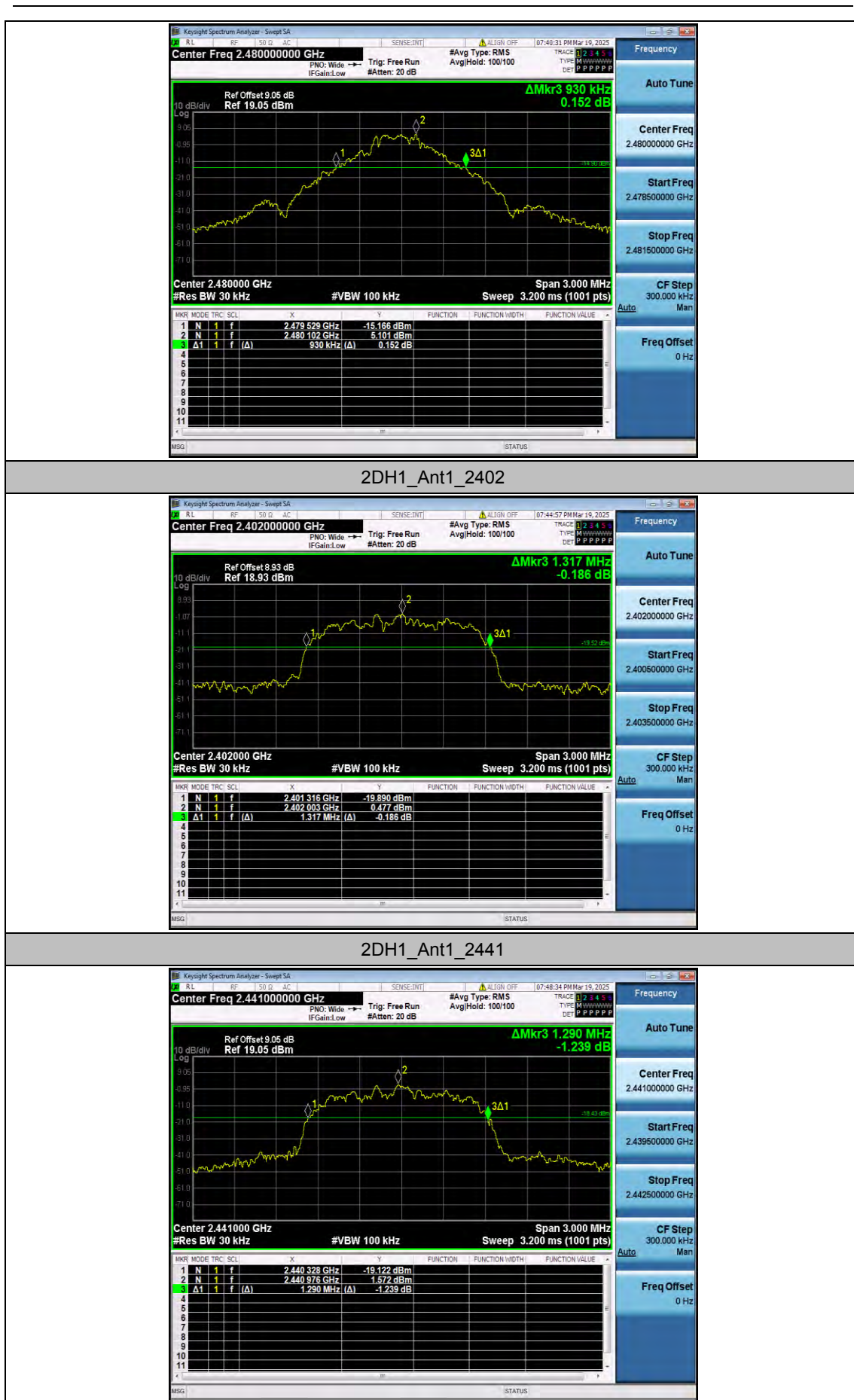
DH1_Ant1_2402



DH1_Ant1_2441



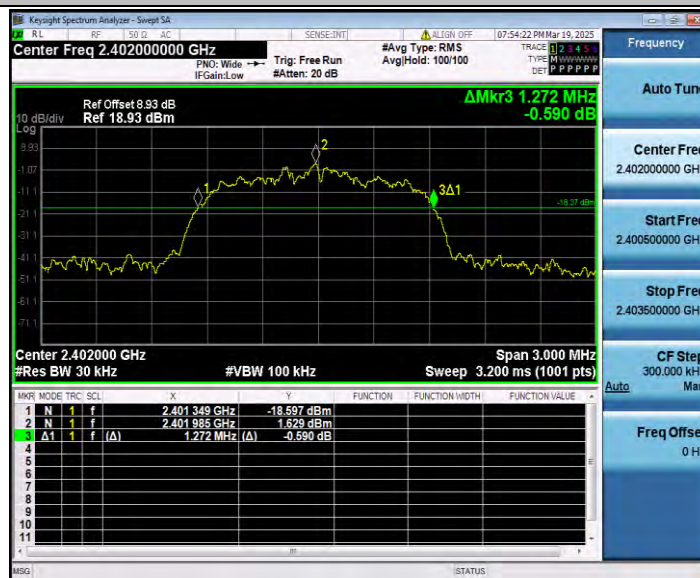
DH1_Ant1_2480



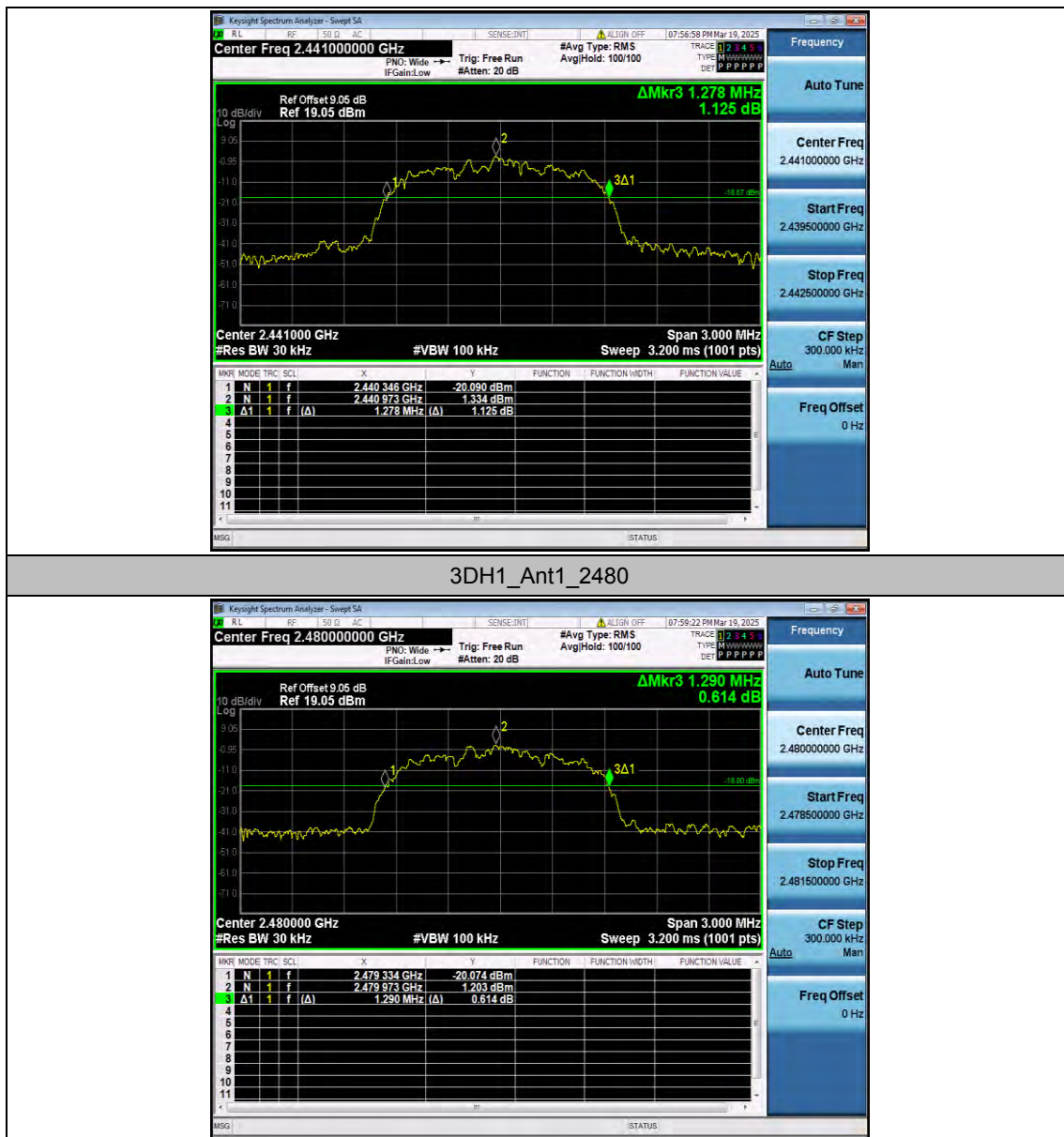
2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.84641	2401.5584	2402.4048	---	---
		2441	0.83510	2440.5688	2441.4039	---	---
		2480	0.84418	2479.5608	2480.4050	---	---
2DH1	Ant1	2402	1.1781	2401.3893	2402.5674	---	---
		2441	1.1741	2440.3875	2441.5616	---	---
		2480	1.1788	2479.3841	2480.5629	---	---
3DH1	Ant1	2402	1.1617	2401.4147	2402.5764	---	---
		2441	1.1628	2440.4118	2441.5746	---	---
		2480	1.1693	2479.4072	2480.5765	---	---

Test Graphs

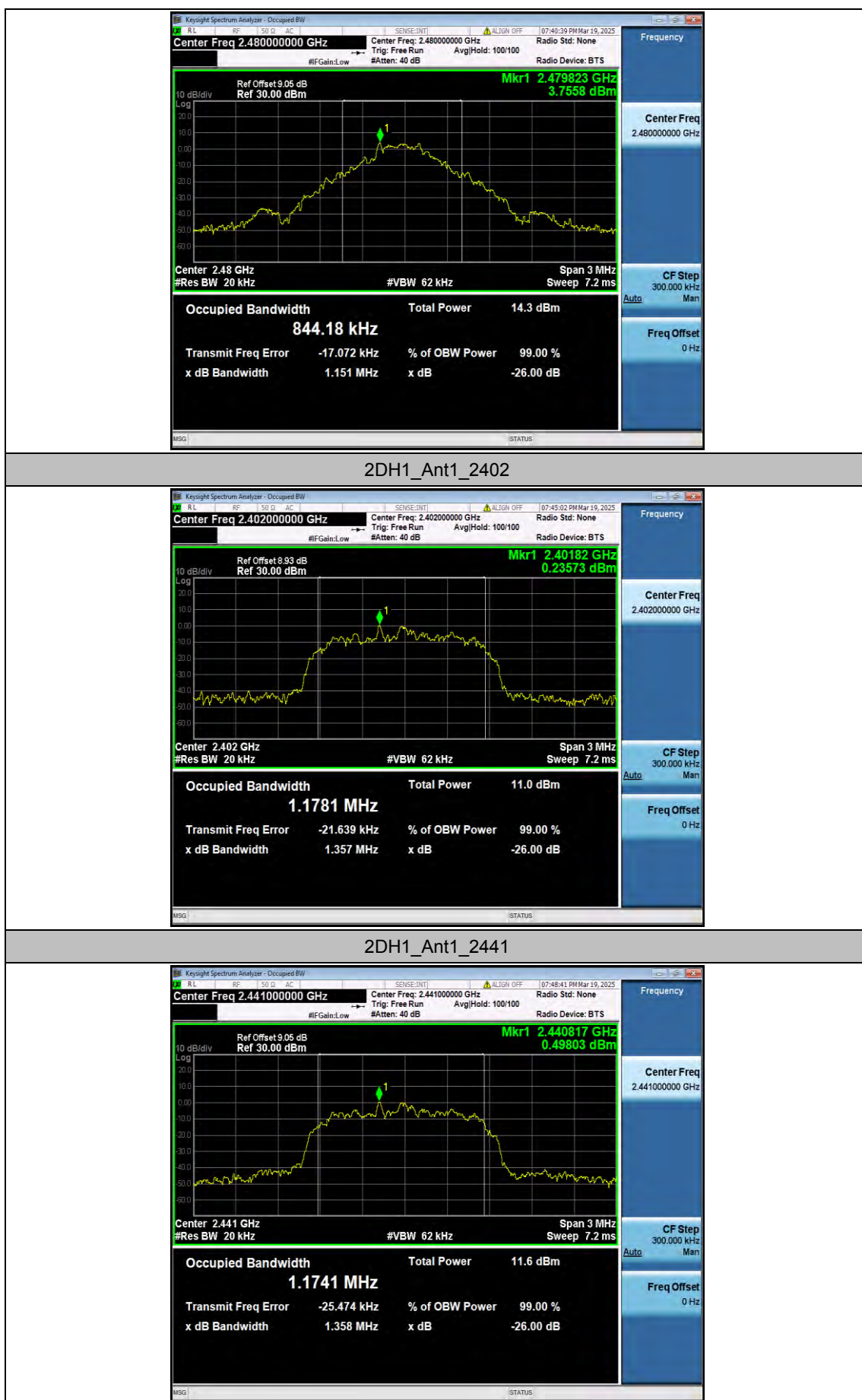
DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



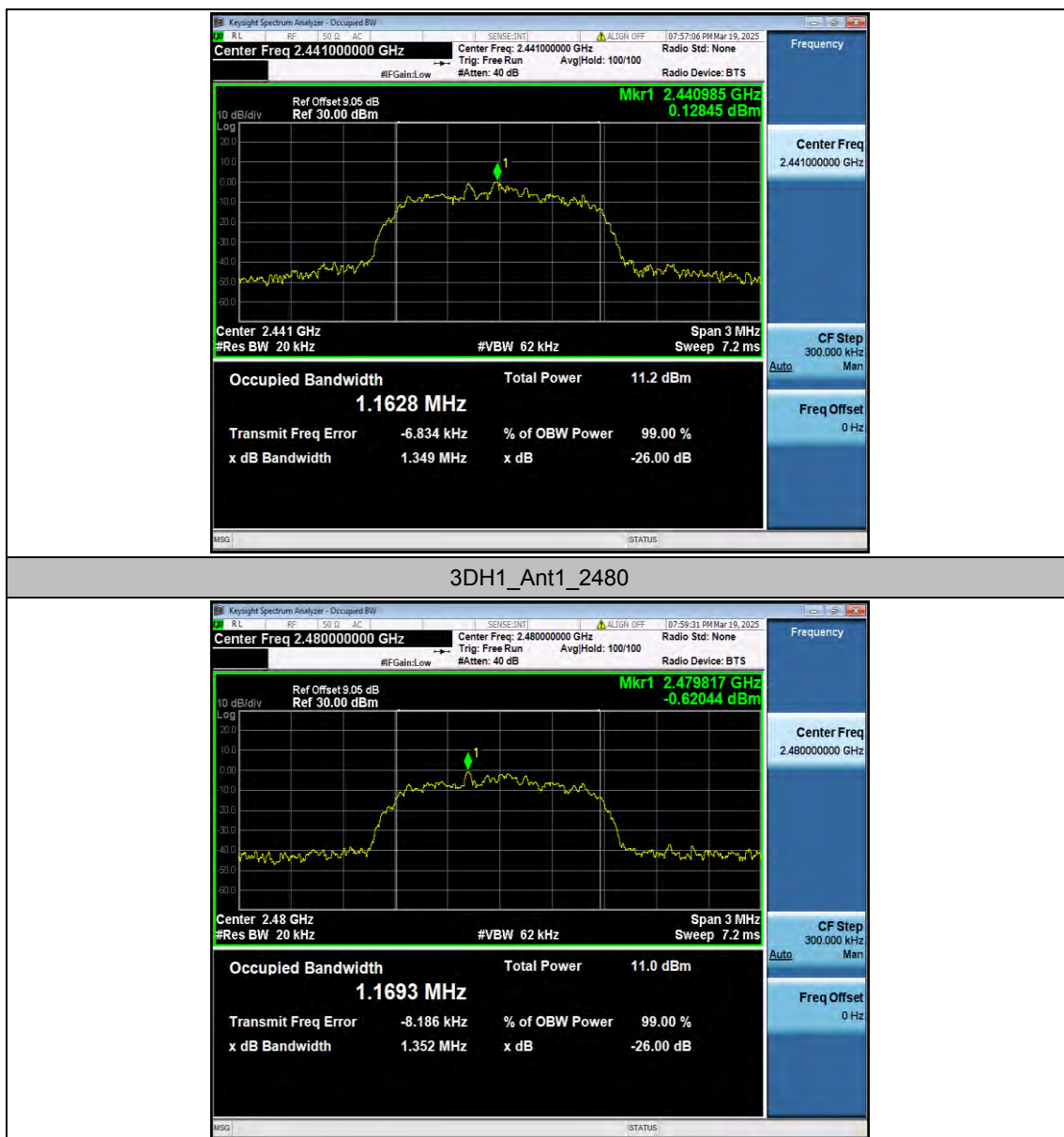
2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



Appendix A.3: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	8.75	≤30.00	PASS
		2441	9.16	≤30.00	PASS
		2480	9.31	≤30.00	PASS
2DH1	Ant1	2402	8.25	≤20.97	PASS
		2441	8.60	≤20.97	PASS
		2480	8.74	≤20.97	PASS
3DH1	Ant1	2402	8.55	≤20.97	PASS
		2441	8.94	≤20.97	PASS
		2480	9.07	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	1.3	≥ 0.945	PASS
		Hop_2441	1.314	≥ 0.945	PASS
		Hop_2480	0.966	≥ 0.945	PASS
2DH1	Ant1	Hop_2402	1.03	≥ 0.878	PASS
		Hop_2441	0.98	≥ 0.878	PASS
		Hop_2480	1.158	≥ 0.878	PASS
3DH1	Ant1	Hop_2402	0.954	≥ 0.860	PASS
		Hop_2441	1.006	≥ 0.860	PASS
		Hop_2480	1.01	≥ 0.860	PASS

Test Graphs

DH1_Ant1_Hop_2402



DH1_Ant1_Hop_2441



DH1_Ant1_Hop_2480



2DH1_Ant1_Hop_2402



2DH1_Ant1_Hop_2441



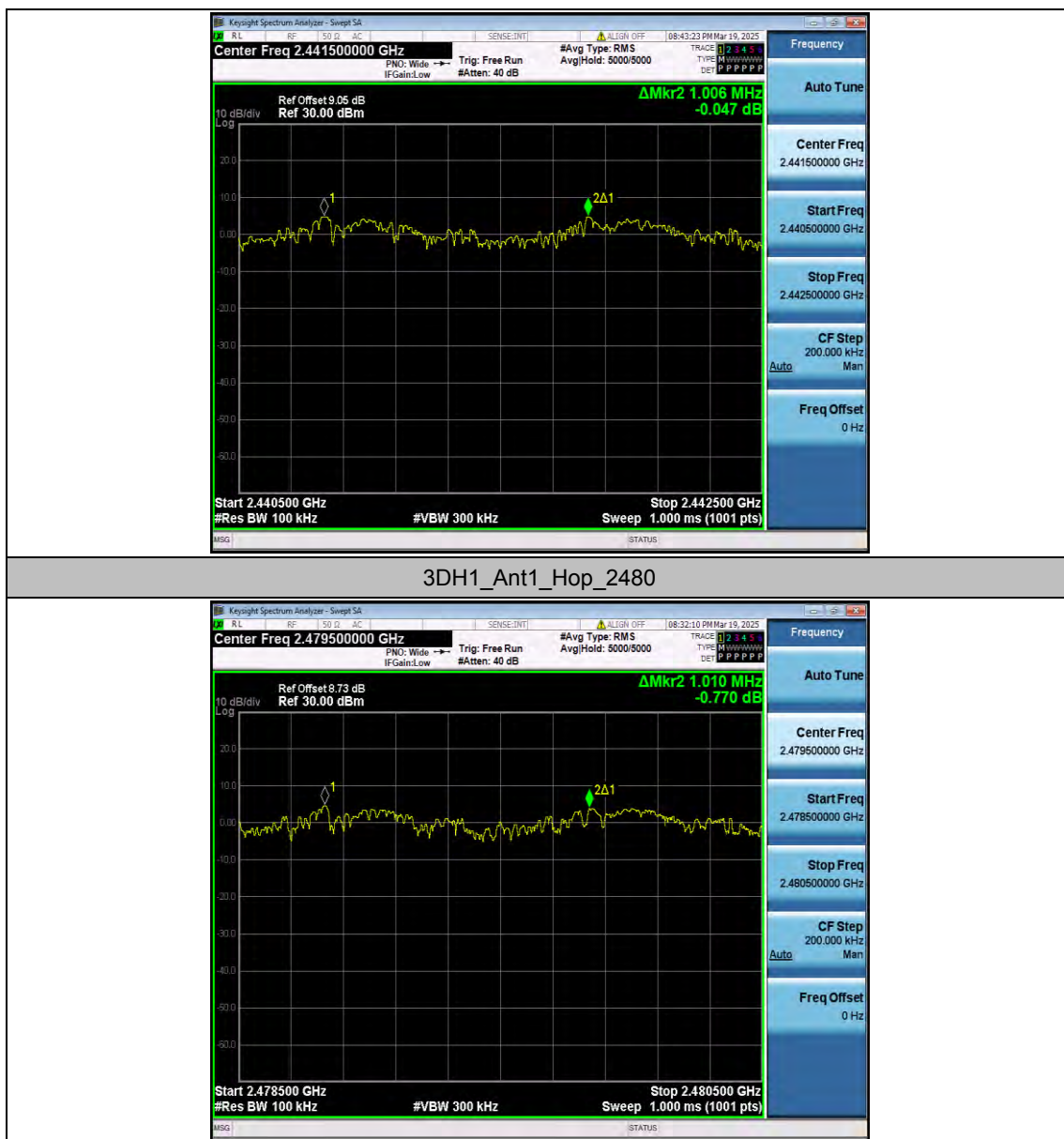
2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441

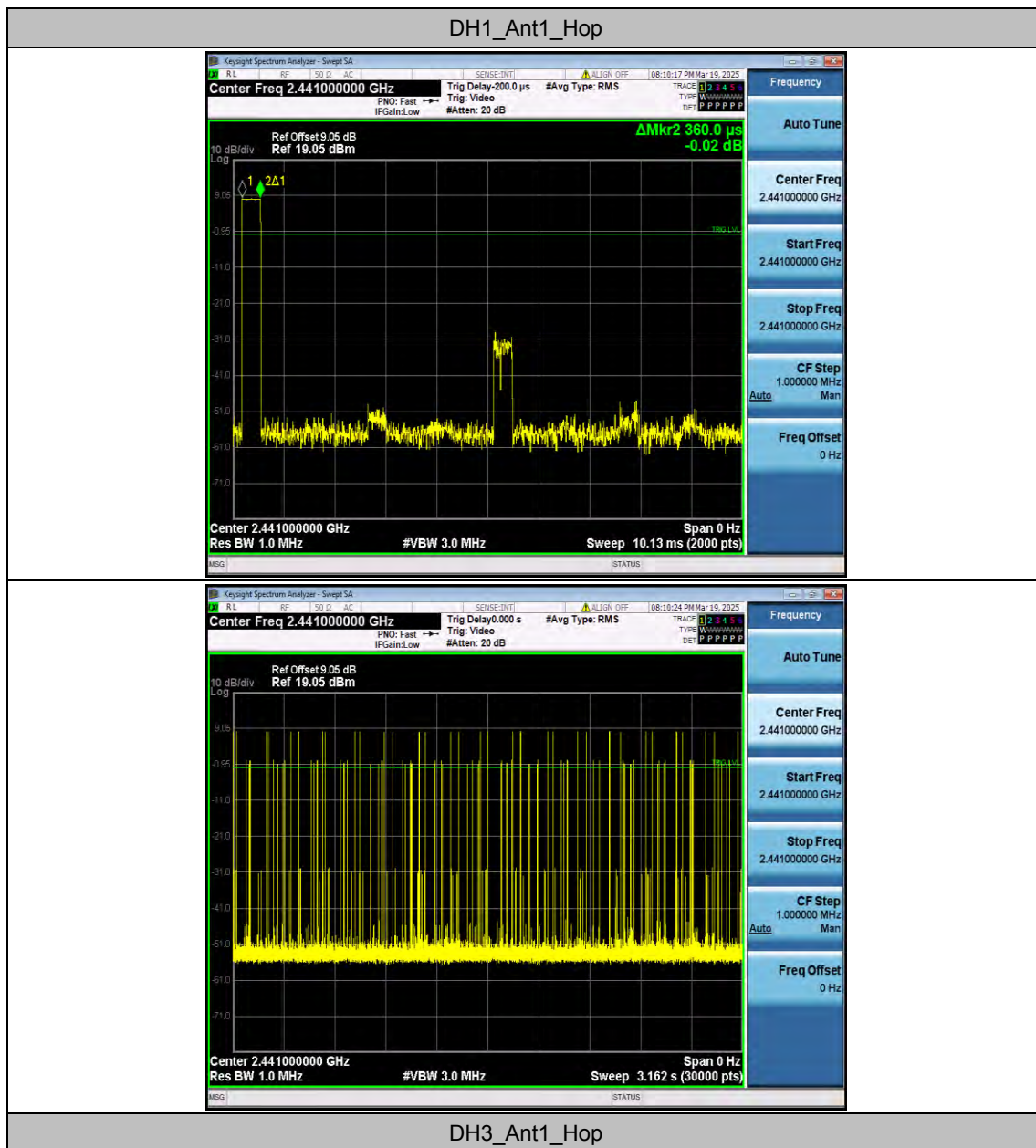


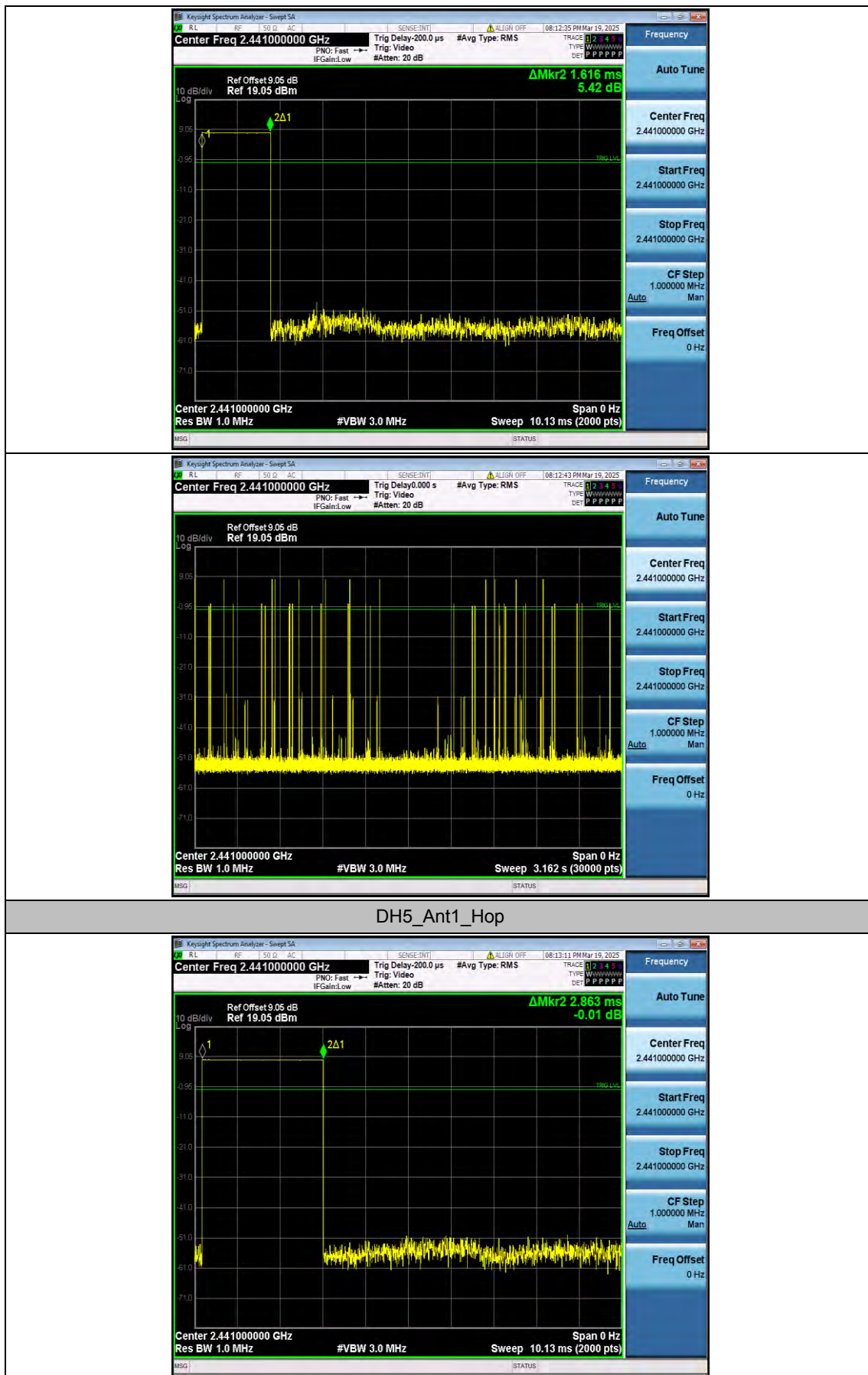
Appendix A.5: Time of occupancy

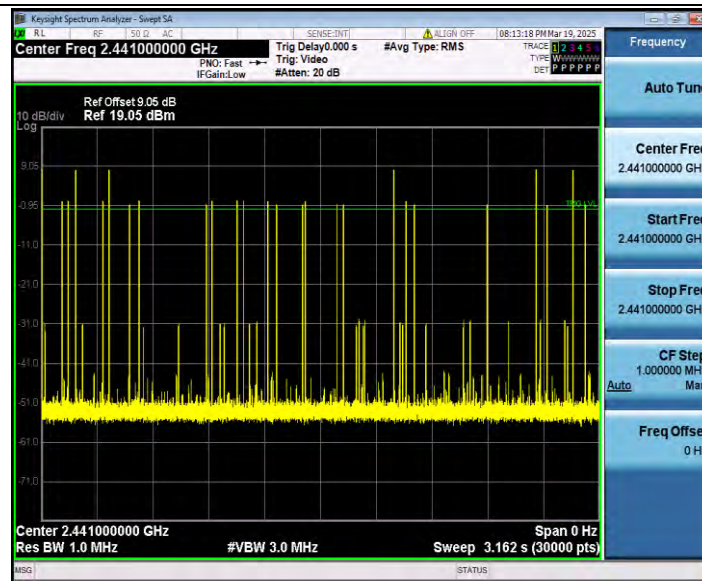
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.360	330	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.616	120	0.194	≤0.4	PASS
DH5	Ant1	Hop	2.863	60	0.172	≤0.4	PASS
2DH1	Ant1	Hop	0.360	330	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.616	170	0.275	≤0.4	PASS
2DH5	Ant1	Hop	2.863	80	0.229	≤0.4	PASS
3DH1	Ant1	Hop	0.360	330	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.616	210	0.339	≤0.4	PASS
3DH5	Ant1	Hop	2.863	130	0.372	≤0.4	PASS

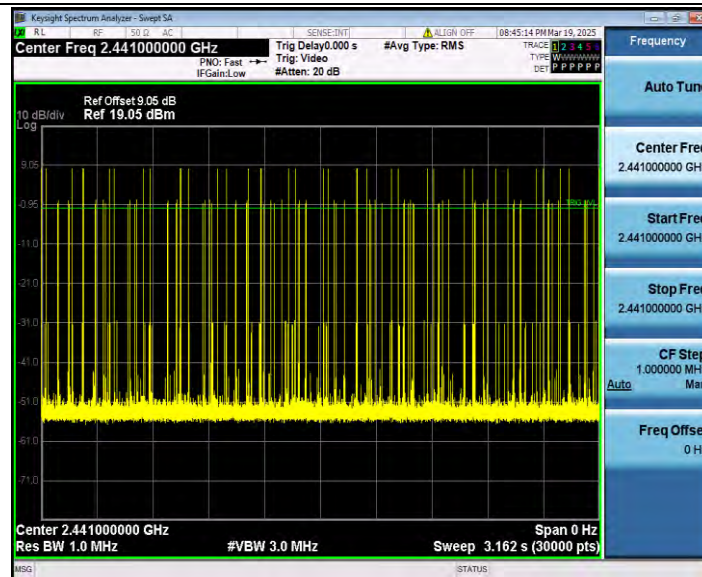
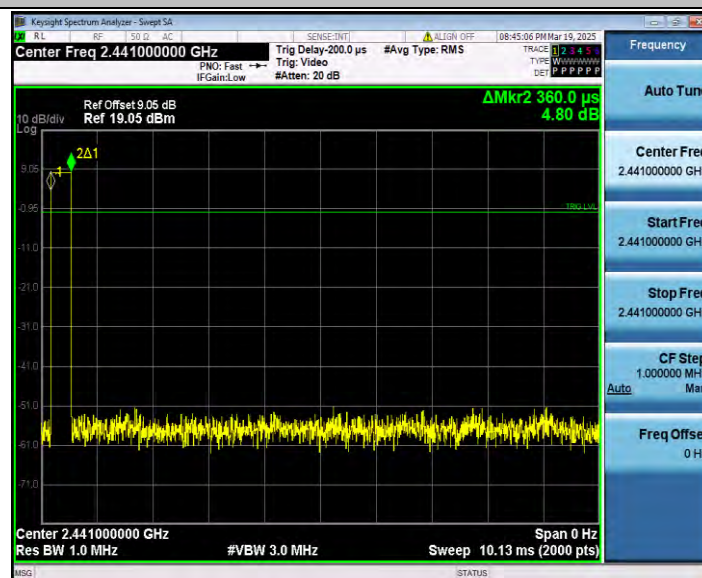
Test Graphs



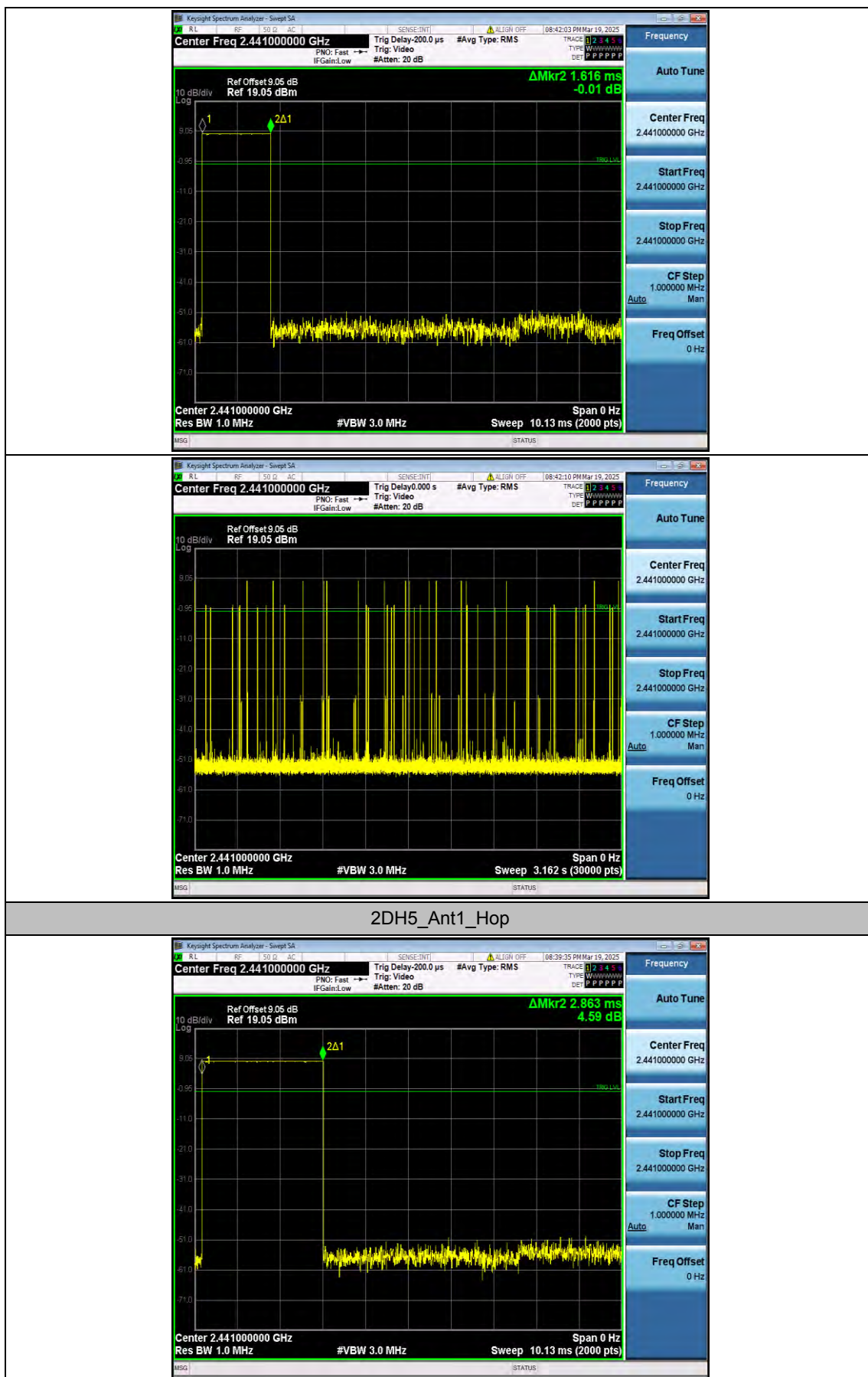


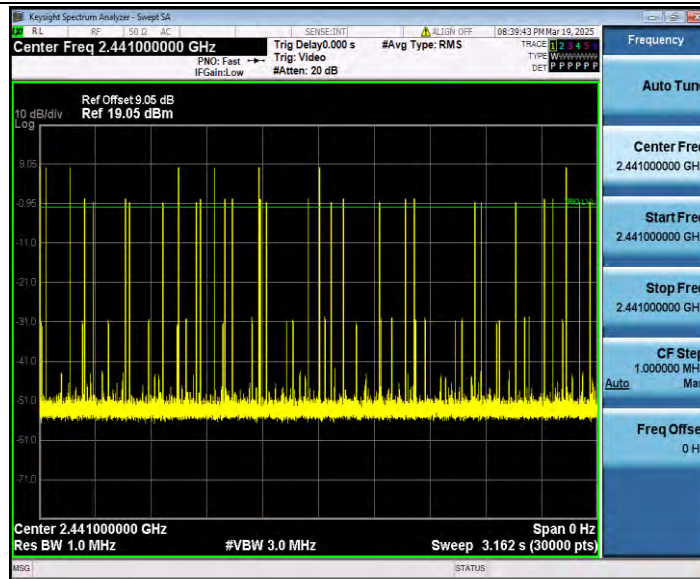


2DH1_Ant1_Hop

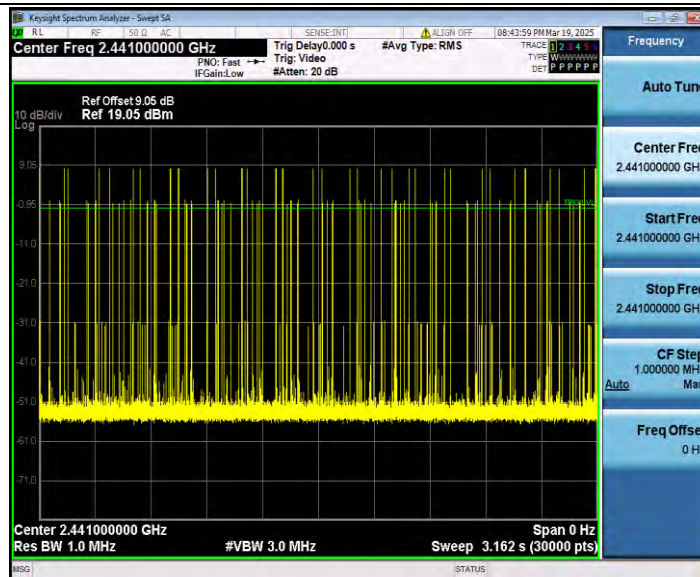
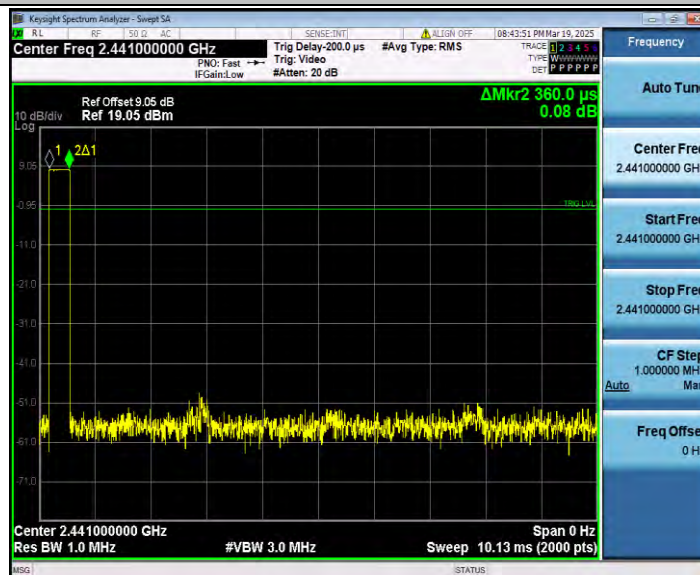


2DH3_Ant1_Hop

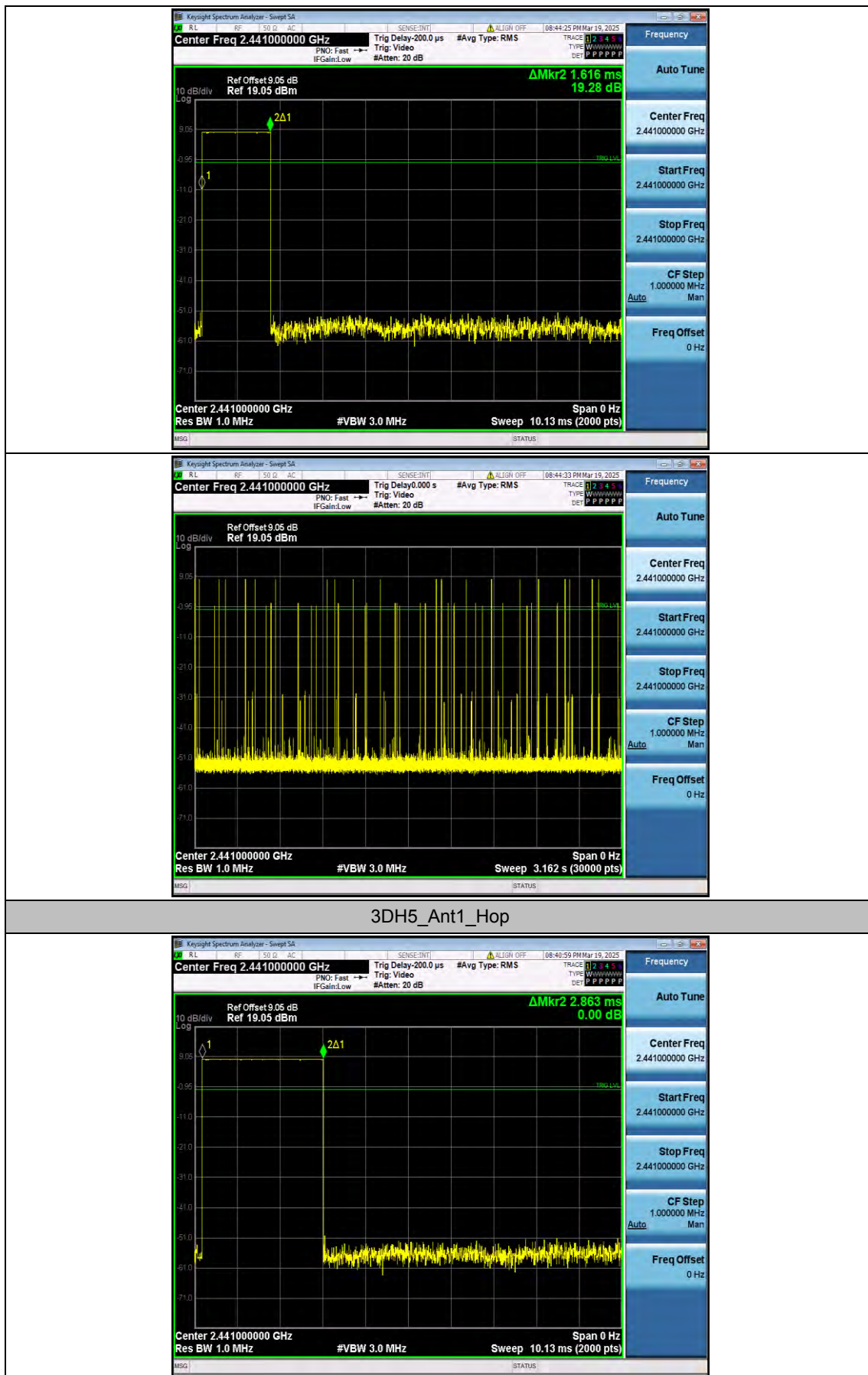




3DH1_Ant1_Hop



3DH3_Ant1_Hop



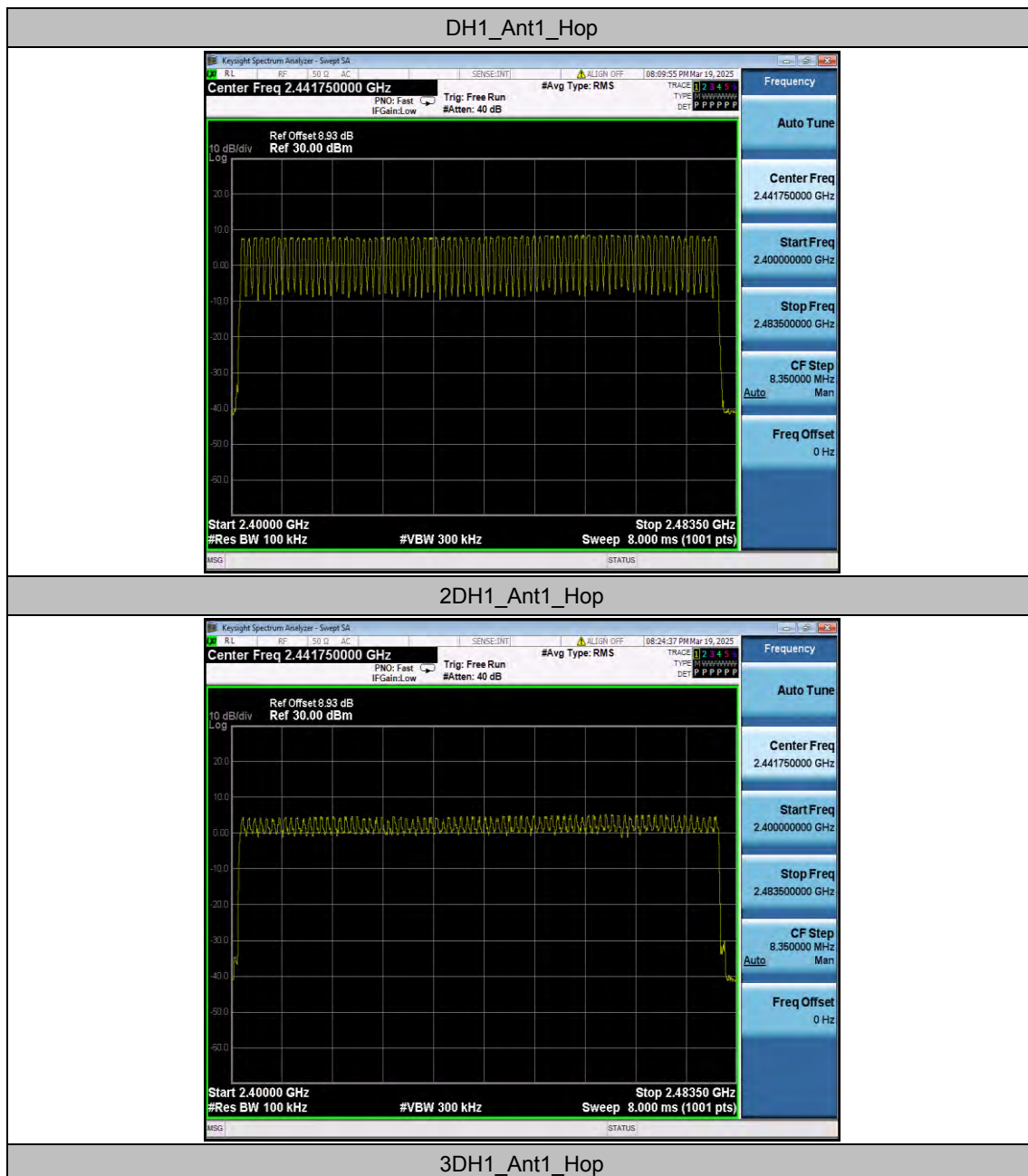


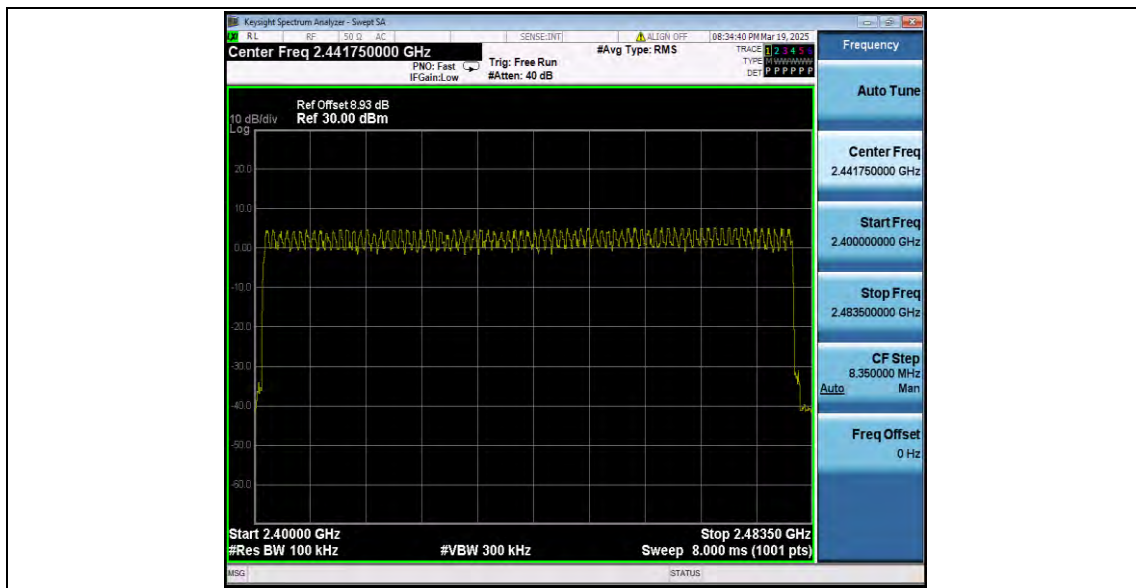
Appendix A.6: Number of hopping channels

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





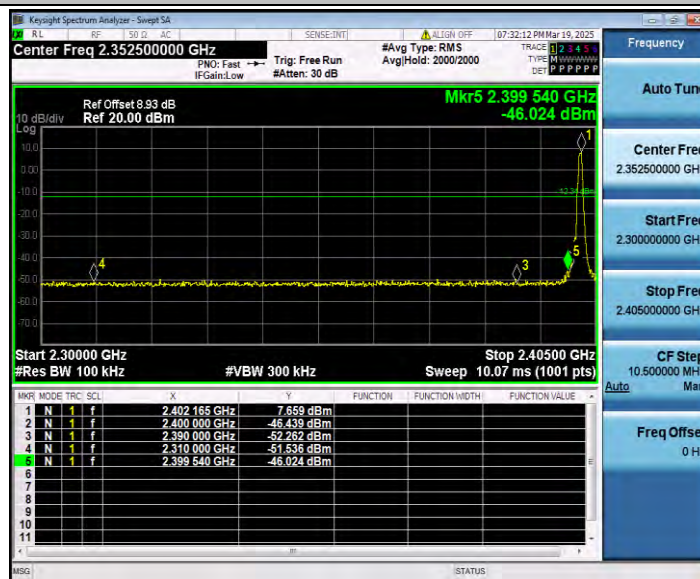
Appendix A.7: Band edge measurements

Test Result

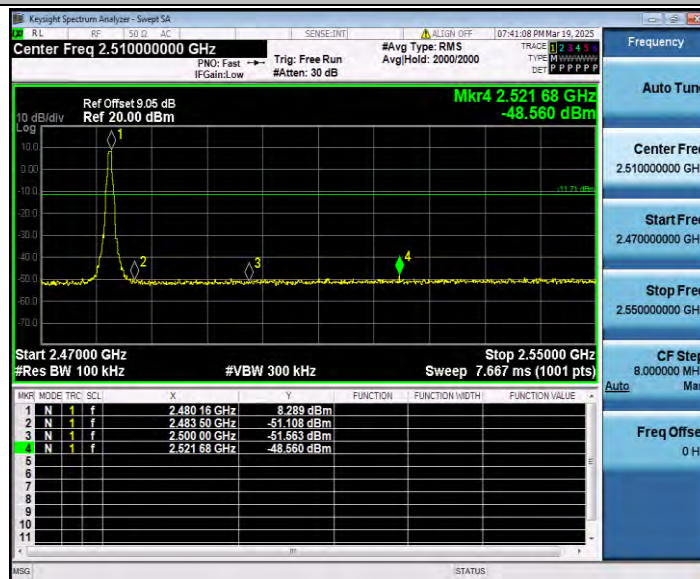
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	7.66	-46.02	≤ -12.34	PASS
		High	2480	8.29	-48.56	≤ -11.71	PASS
		Low	Hop_2402	7.16	-49.01	≤ -12.84	PASS
		High	Hop_2480	8.35	-48.88	≤ -11.65	PASS
2DH1	Ant1	Low	2402	4.36	-48.73	≤ -15.64	PASS
		High	2480	4.92	-48.74	≤ -15.08	PASS
		Low	Hop_2402	4.19	-49.53	≤ -15.81	PASS
		High	Hop_2480	5.20	-48.58	≤ -14.8	PASS
3DH1	Ant1	Low	2402	4.40	-47.65	≤ -15.61	PASS
		High	2480	5.01	-49.04	≤ -14.99	PASS
		Low	Hop_2402	4.33	-49.51	≤ -15.67	PASS
		High	Hop_2480	8.59	-49.24	≤ -11.41	PASS

Test Graphs

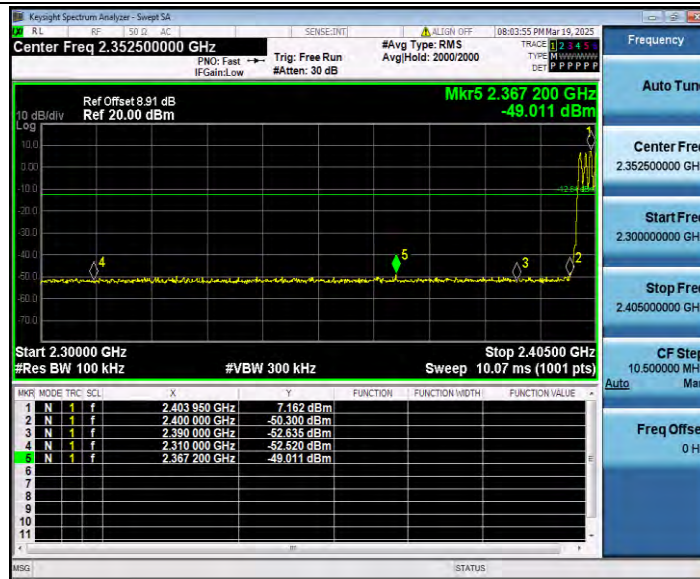
DH1_Ant1_Low_2402



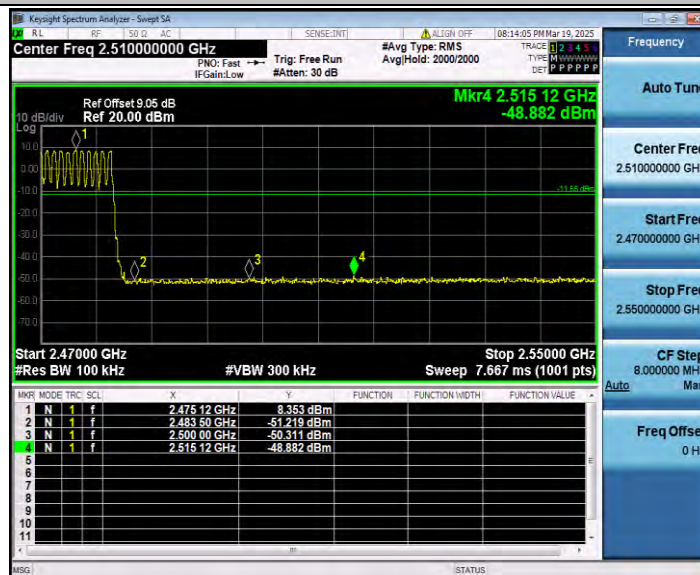
DH1_Ant1_High_2480



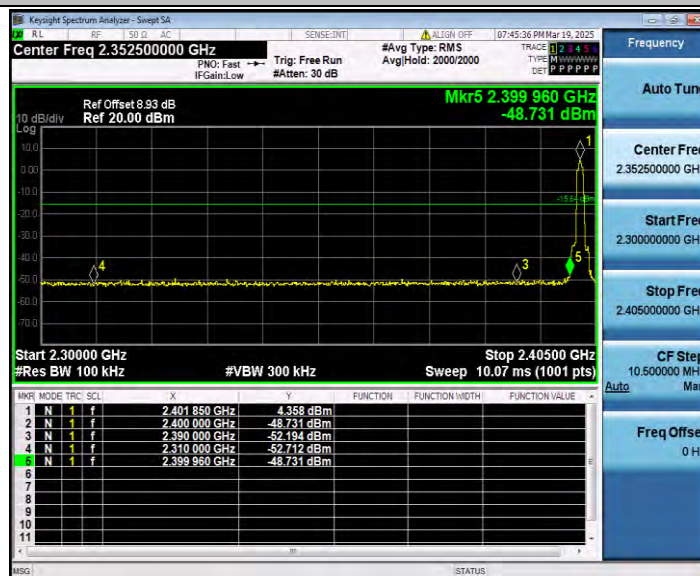
DH1_Ant1_Low_Hop_2402



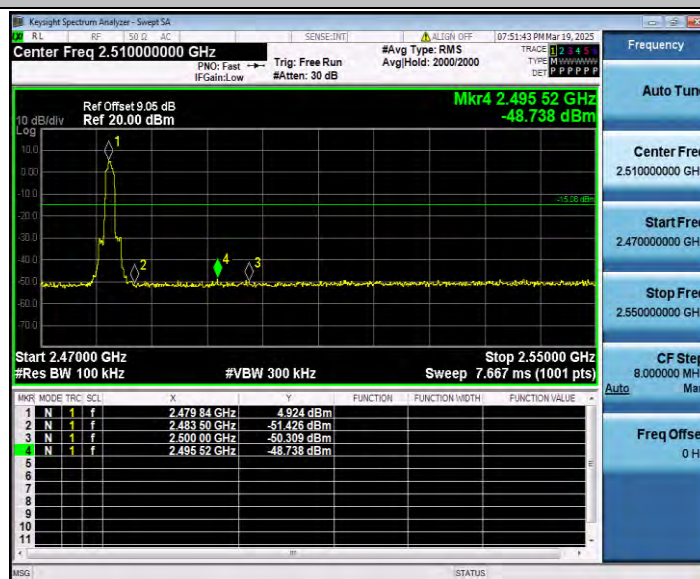
DH1_Ant1_High_Hop_2480



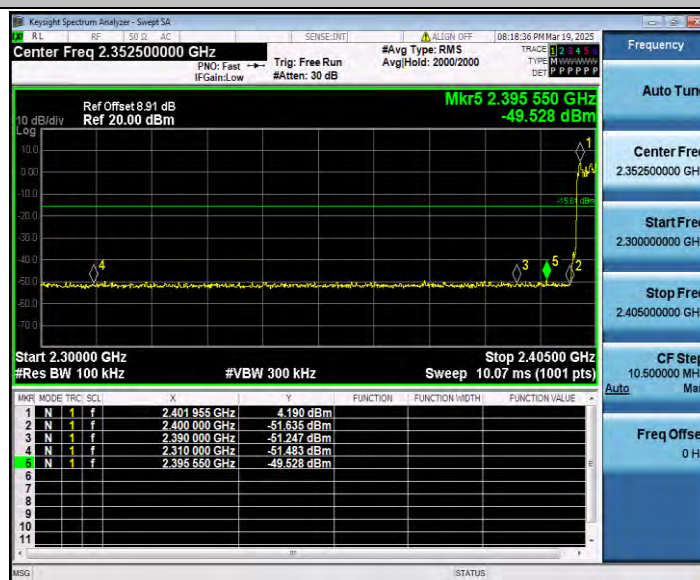
2DH1_Ant1_Low_2402



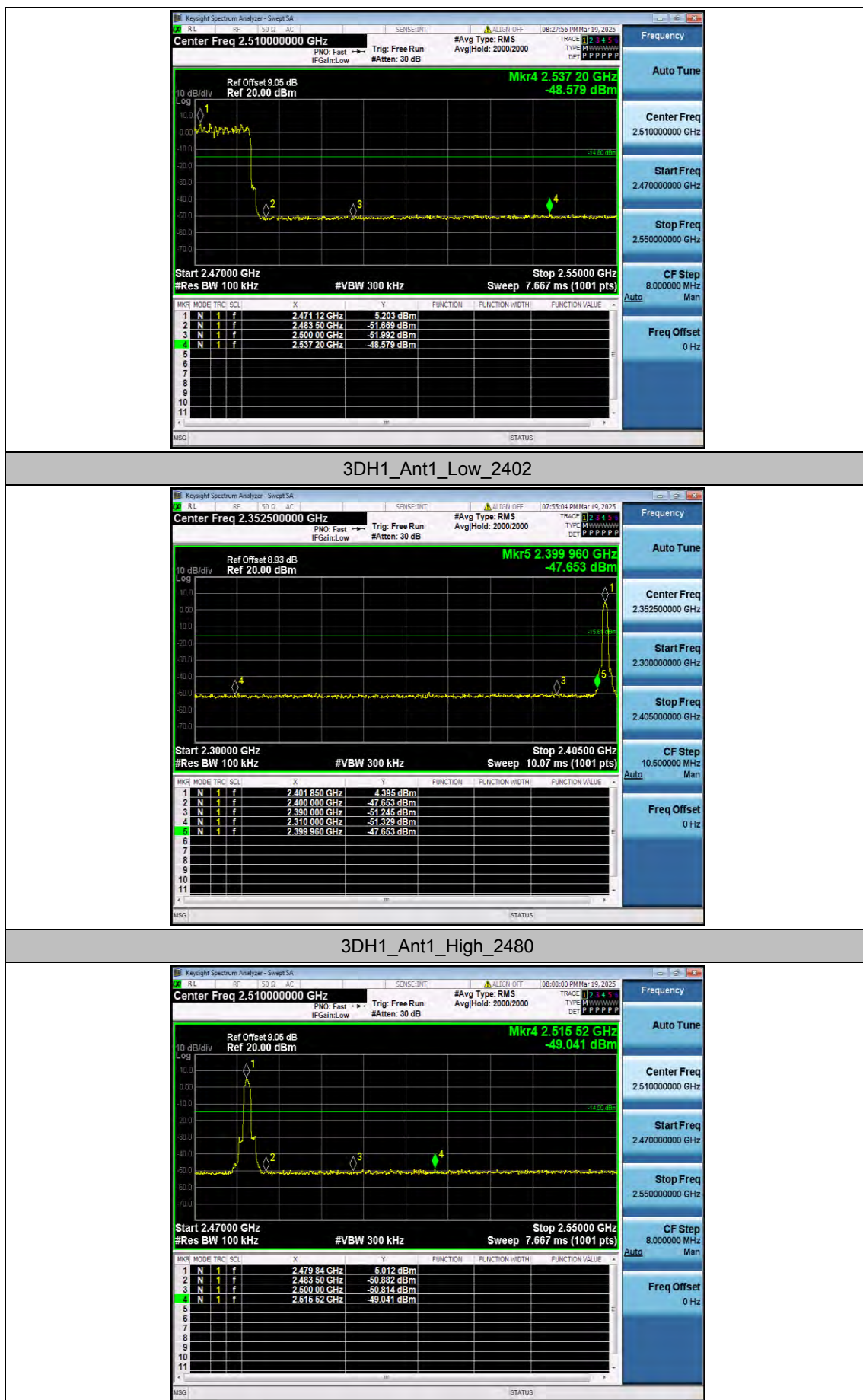
2DH1_Ant1_High_2480



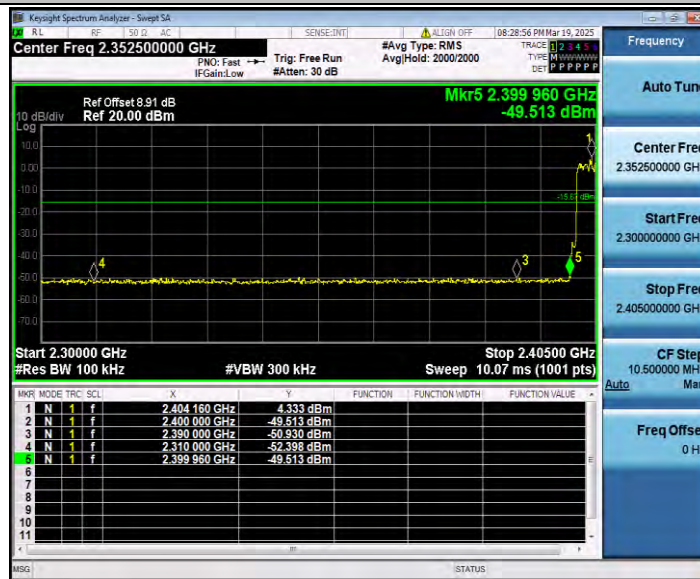
2DH1_Ant1_Low_Hop_2402



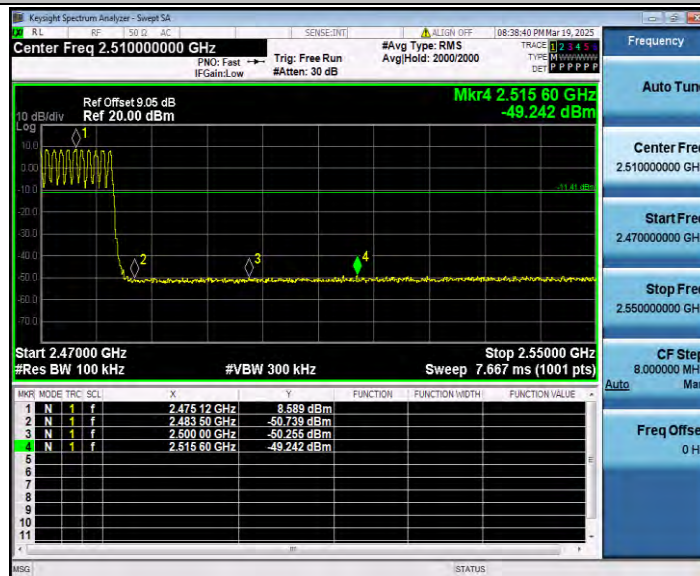
2DH1_Ant1_High_Hop_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

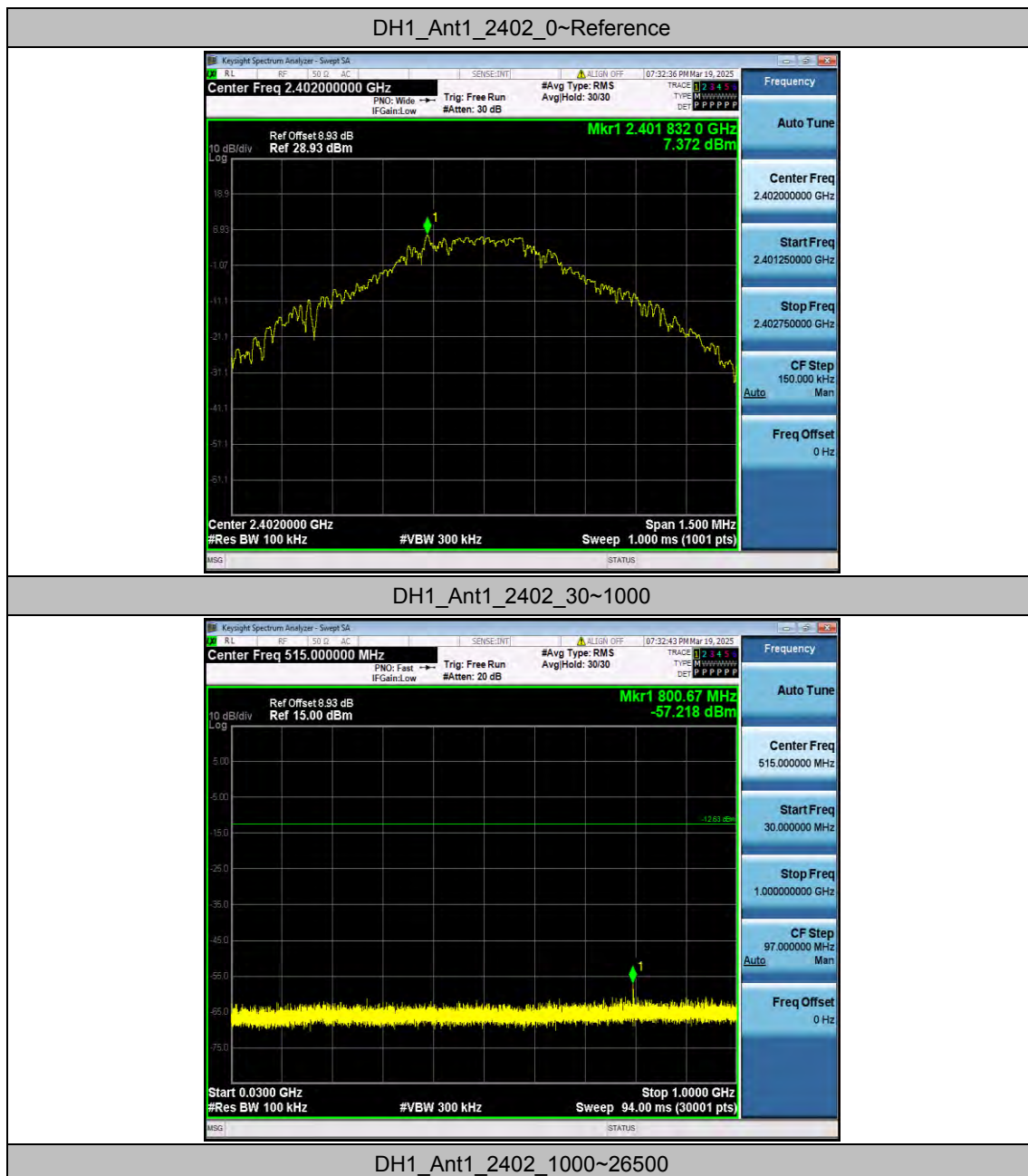


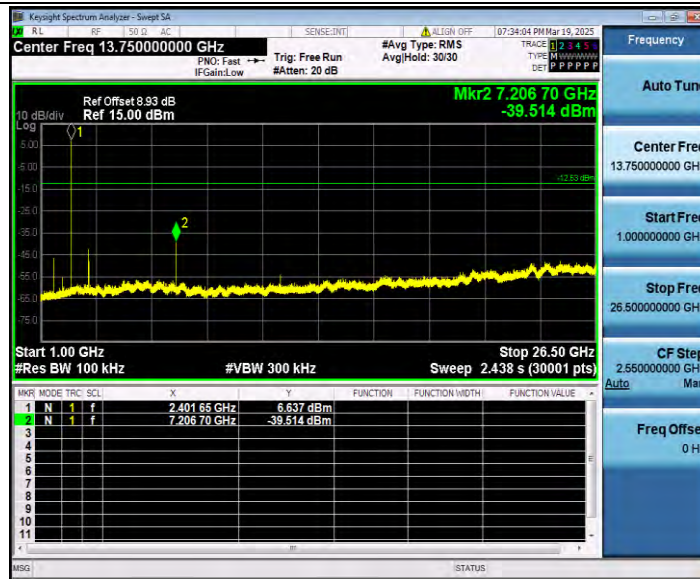
Appendix A.8: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	7.37	7.37	---	PASS
			30~1000	7.37	-57.22	≤ -12.63	PASS
			1000~26500	7.37	-39.51	≤ -12.63	PASS
		2441	Reference	7.23	7.23	---	PASS
			30~1000	7.23	-57.95	≤ -12.77	PASS
			1000~26500	7.23	-39.18	≤ -12.77	PASS
		2480	Reference	8.00	8.00	---	PASS
			30~1000	8.00	-58.12	≤ -12	PASS
			1000~26500	8.00	-35.37	≤ -12	PASS
2DH1	Ant1	2402	Reference	3.09	3.09	---	PASS
			30~1000	3.09	-58.85	≤ -16.91	PASS
			1000~26500	3.09	-41.3	≤ -16.91	PASS
		2441	Reference	4.54	4.54	---	PASS
			30~1000	4.54	-60.07	≤ -15.46	PASS
			1000~26500	4.54	-40.68	≤ -15.46	PASS
		2480	Reference	4.61	4.61	---	PASS
			30~1000	4.61	-55.44	≤ -15.39	PASS
			1000~26500	4.61	-40.01	≤ -15.39	PASS
3DH1	Ant1	2402	Reference	3.91	3.91	---	PASS
			30~1000	3.91	-60.28	≤ -16.09	PASS
			1000~26500	3.91	-42.16	≤ -16.09	PASS
		2441	Reference	4.59	4.59	---	PASS
			30~1000	4.59	-60.59	≤ -15.41	PASS
			1000~26500	4.59	-41.19	≤ -15.41	PASS
		2480	Reference	4.91	4.91	---	PASS
			30~1000	4.91	-60.45	≤ -15.09	PASS
			1000~26500	4.91	-39.93	≤ -15.09	PASS

Test Graphs

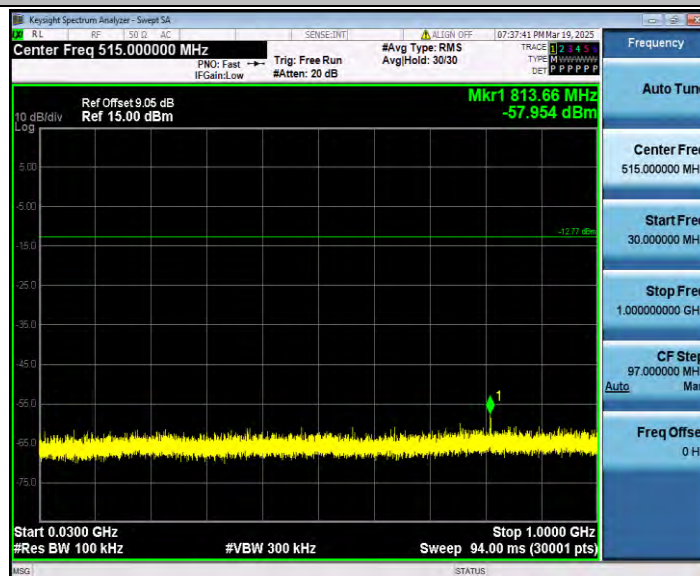


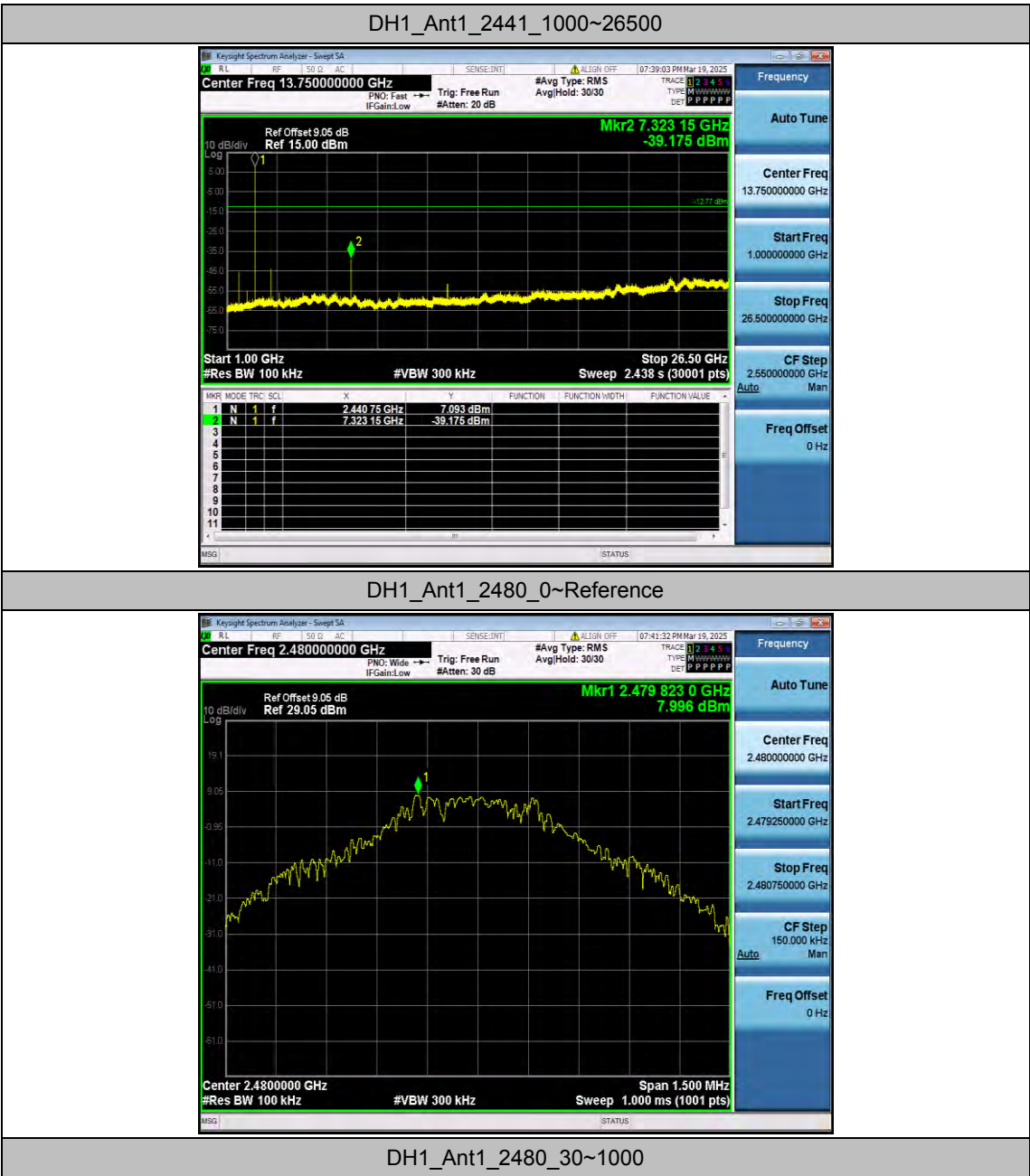


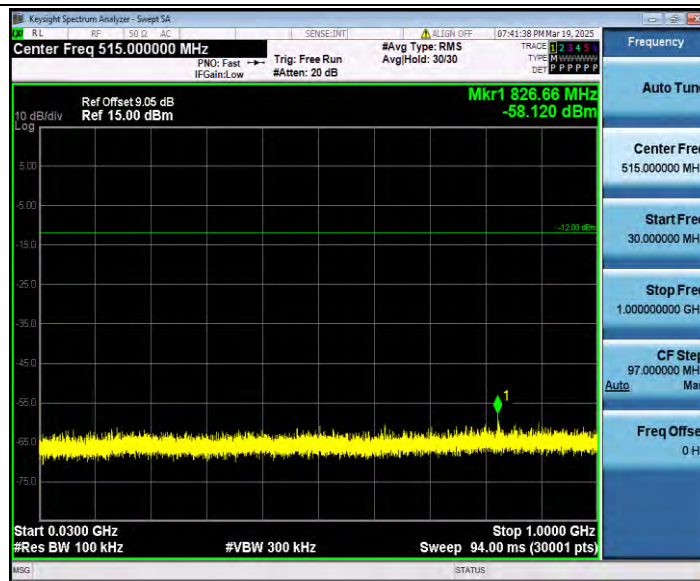
DH1_Ant1_2441_0~Reference



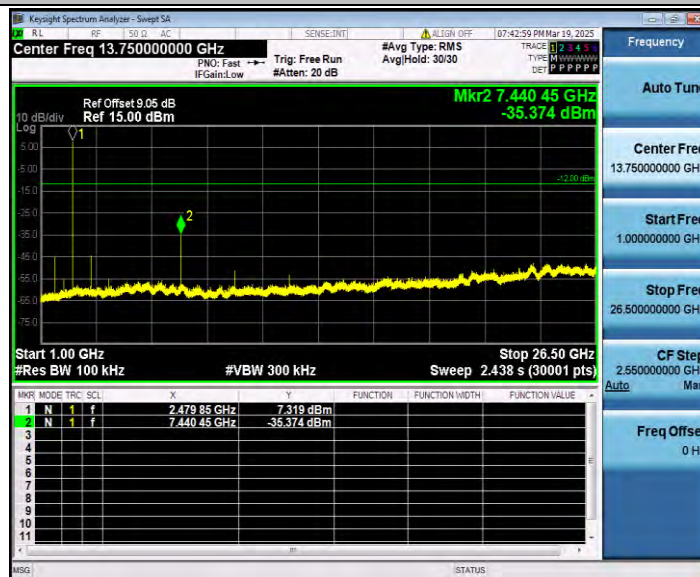
DH1_Ant1_2441_30~1000





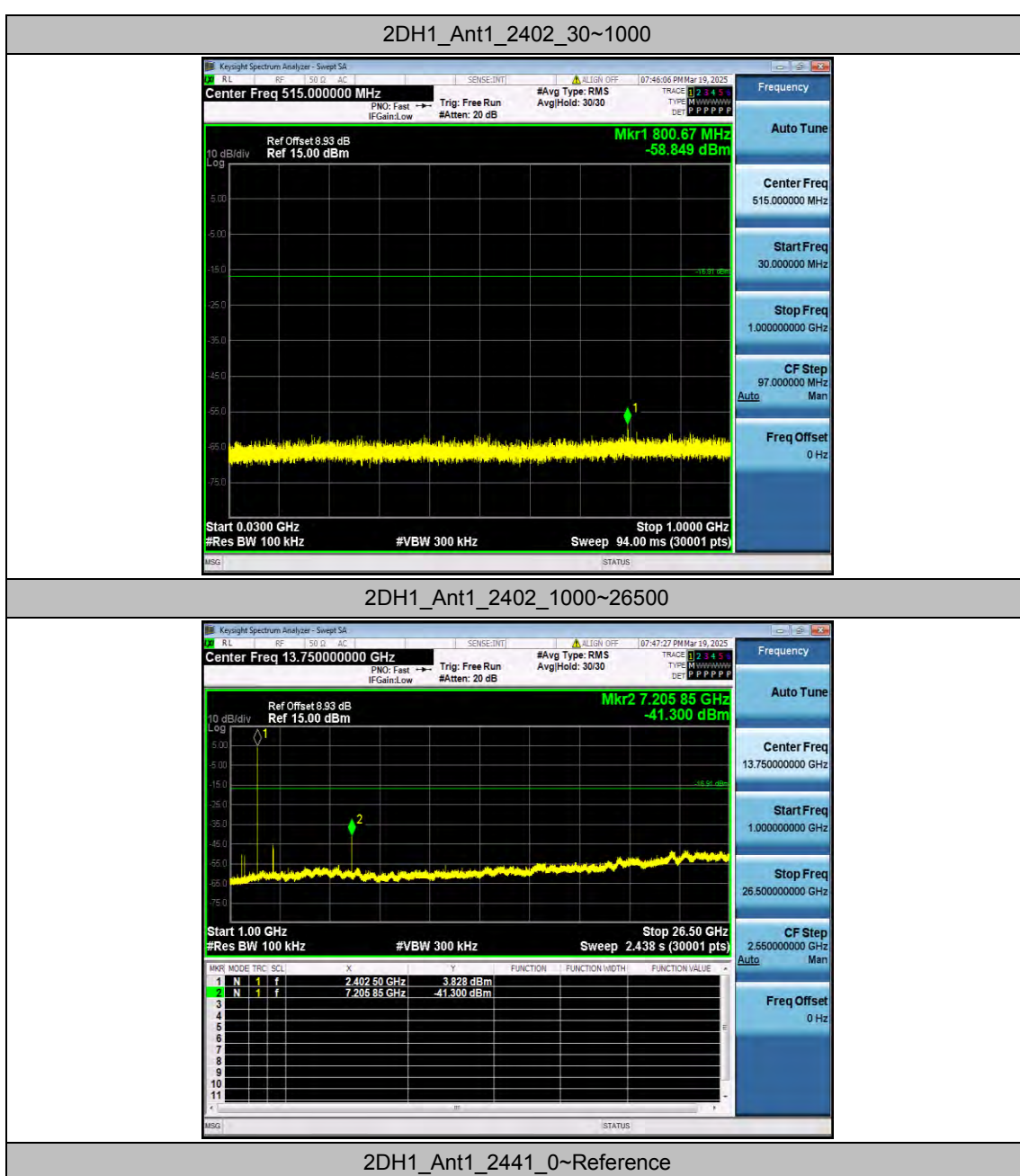


DH1_Ant1_2480_1000~26500



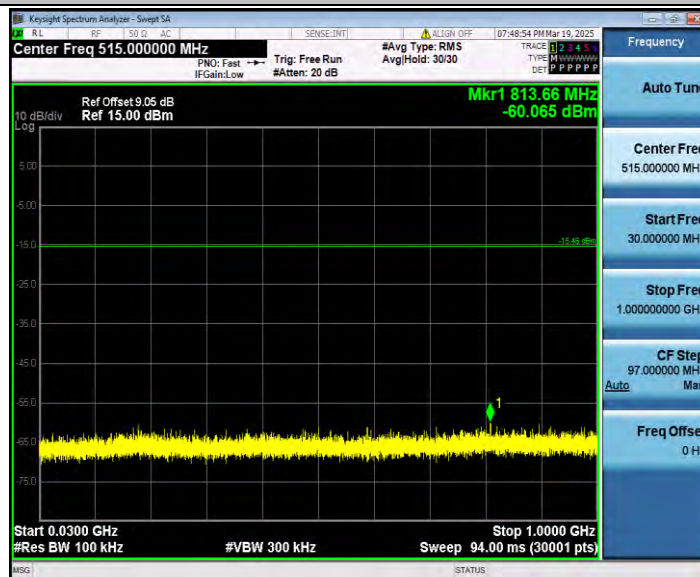
2DH1_Ant1_2402_0~Reference



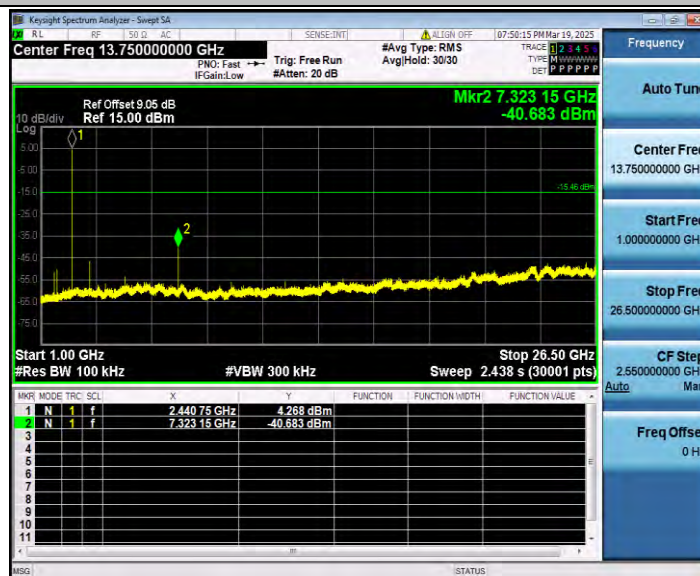




2DH1_Ant1_2441_30~1000



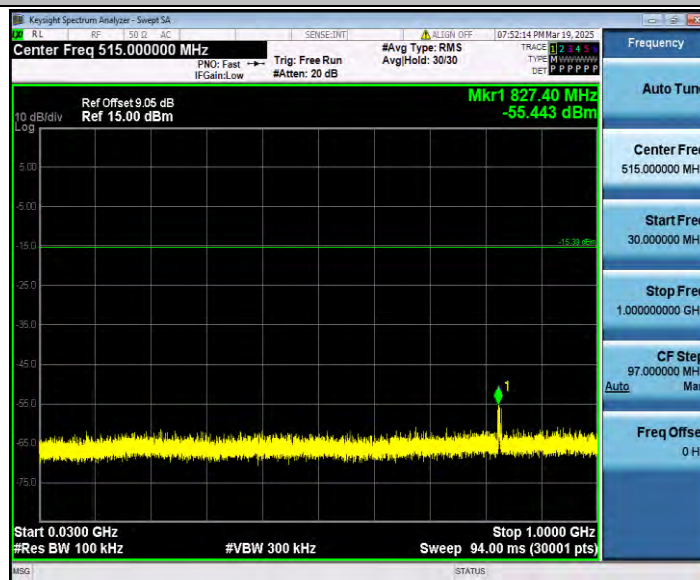
2DH1_Ant1_2441_1000~26500



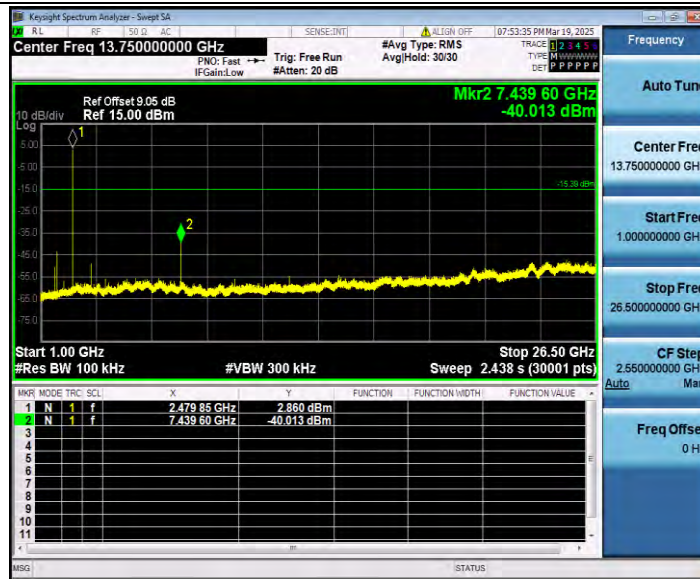
2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



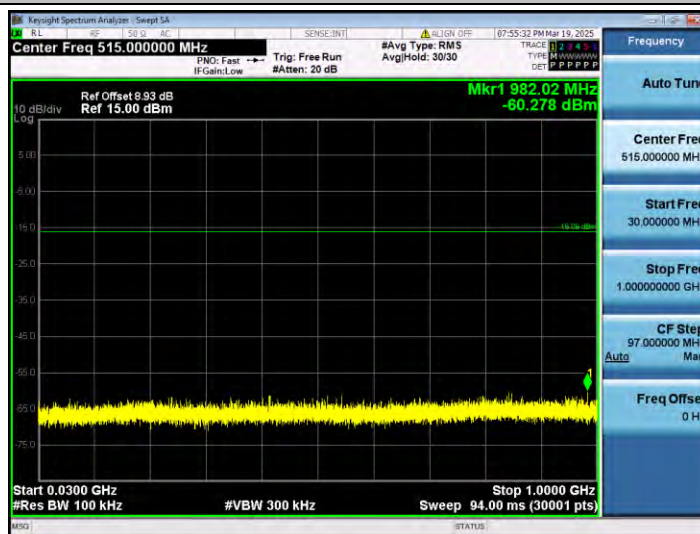
2DH1_Ant1_2480_1000~26500



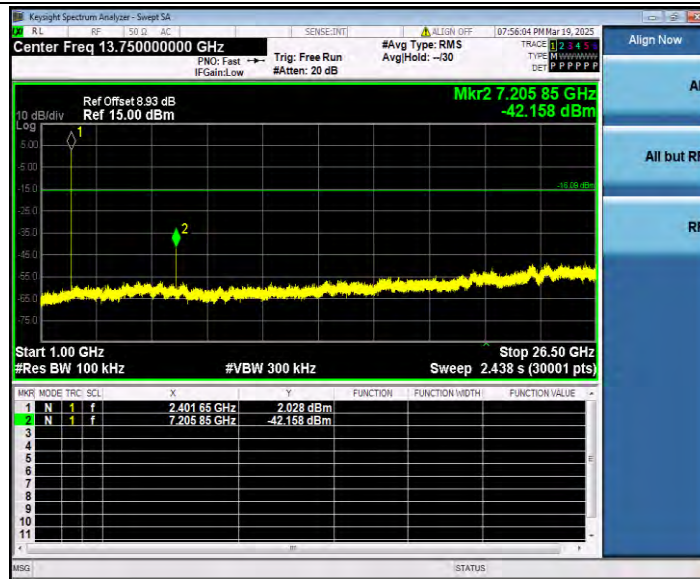
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



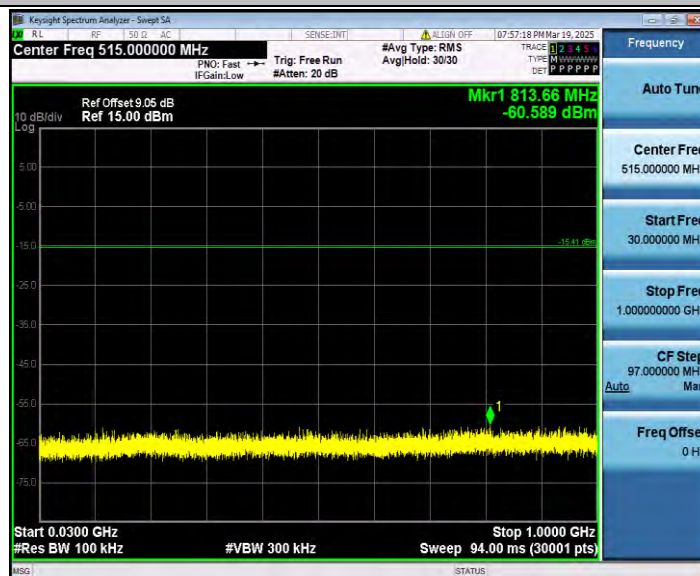
3DH1_Ant1_2402_1000~26500



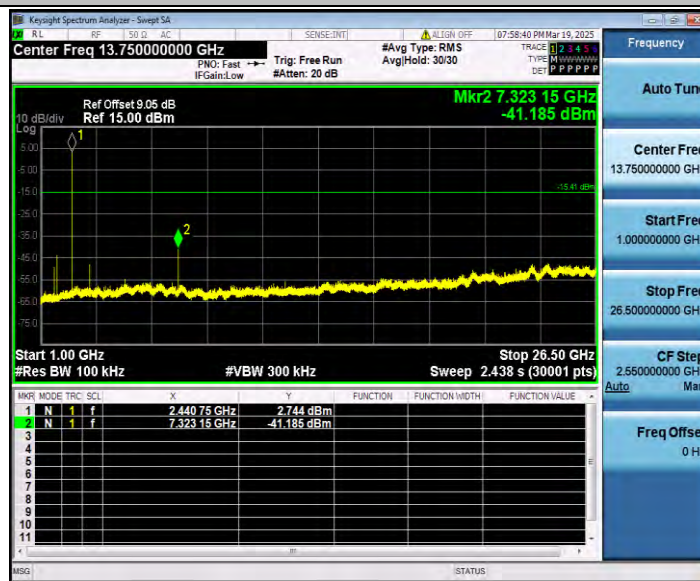
3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000



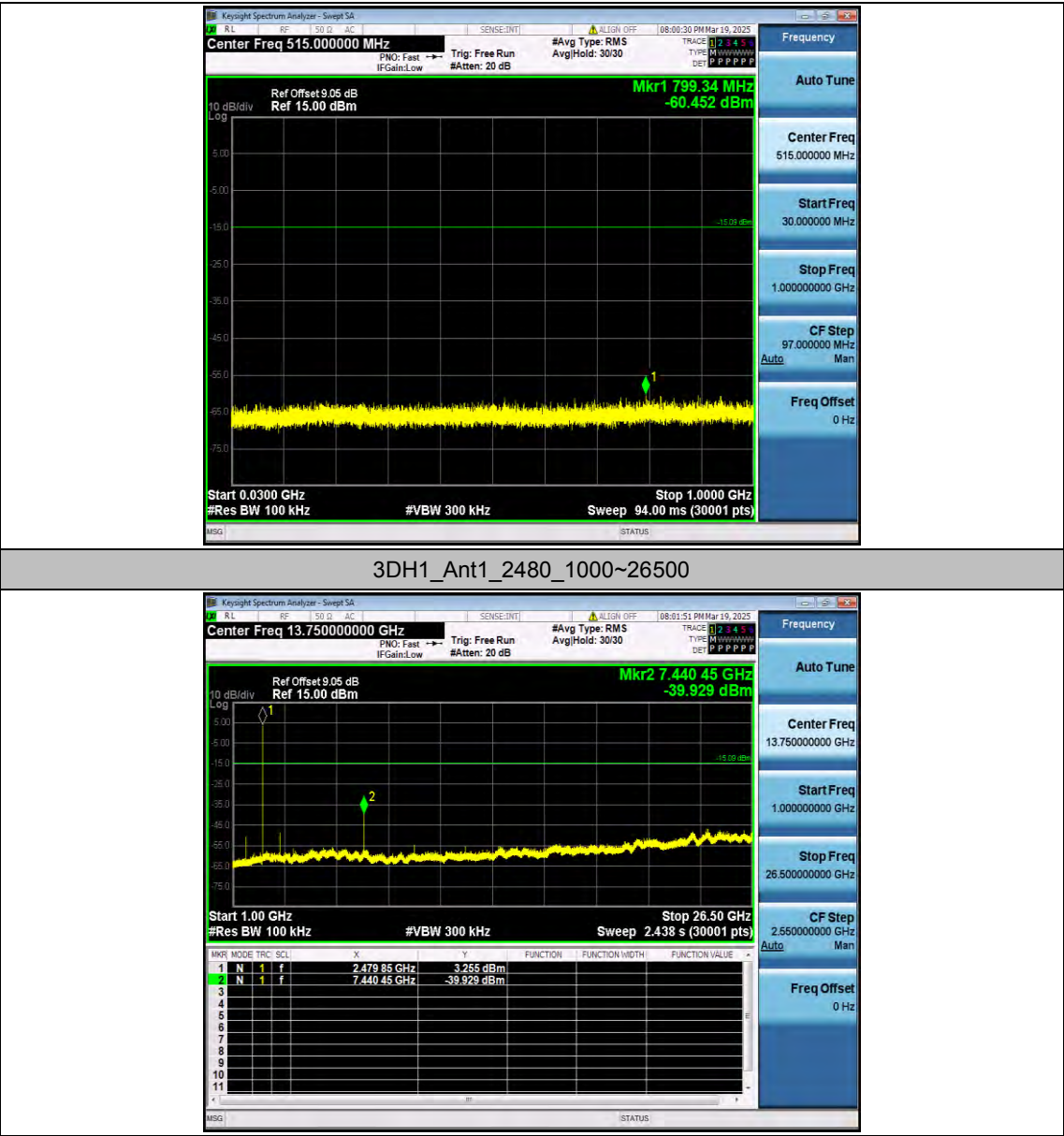
3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



Appendix A.9: Emissions in Restricted Bands

Test Result

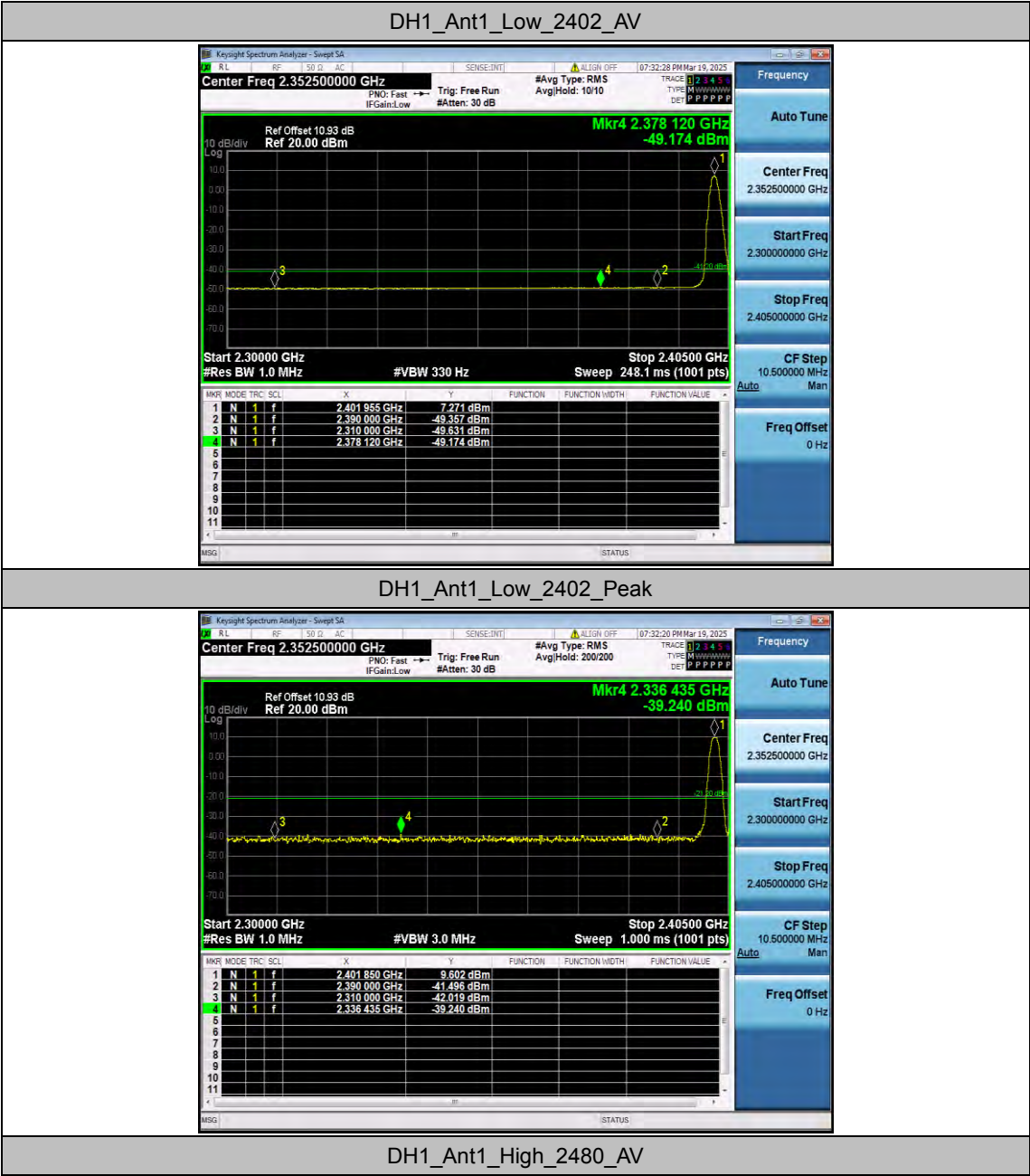
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.63	≤-41.20	45.57	≤54	PASS
				AV	2378.120	-49.17	≤-41.20	46.03	≤54	PASS
				AV	2390.000	-49.36	≤-41.20	45.84	≤54	PASS
				Peak	2310.000	-42.02	≤-21.20	53.18	≤74	PASS
				Peak	2336.435	-39.24	≤-21.20	55.96	≤74	PASS
				Peak	2390.000	-41.5	≤-21.20	53.70	≤74	PASS
		High	2480	AV	2483.500	-48.03	≤-41.20	47.17	≤54	PASS
				AV	2483.520	-48.03	≤-41.20	47.17	≤54	PASS
				AV	2500.000	-48.73	≤-41.20	46.47	≤54	PASS
				Peak	2483.500	-41.02	≤-21.20	54.18	≤74	PASS
				Peak	2492.880	-38.97	≤-21.20	56.23	≤74	PASS
				Peak	2500.000	-40.47	≤-21.20	54.73	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.36	≤-41.20	45.84	≤54	PASS
				AV	2384.000	-48.97	≤-41.20	46.23	≤54	PASS
				AV	2390.000	-49.14	≤-41.20	46.06	≤54	PASS
				Peak	2310.000	-41.67	≤-21.20	53.53	≤74	PASS
				Peak	2366.570	-38.48	≤-21.20	56.72	≤74	PASS
				Peak	2390.000	-39.16	≤-21.20	56.04	≤74	PASS
		High	2480	AV	2483.500	-48.04	≤-41.20	47.16	≤54	PASS
				AV	2483.520	-48.04	≤-41.20	47.16	≤54	PASS
				AV	2500.000	-48.69	≤-41.20	46.51	≤54	PASS
				Peak	2483.500	-40.36	≤-21.20	54.84	≤74	PASS
				Peak	2499.440	-38.57	≤-21.20	56.63	≤74	PASS
				Peak	2500.000	-41.21	≤-21.20	53.99	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.49	≤-41.20	45.71	≤54	PASS
				AV	2385.050	-48.96	≤-41.20	46.24	≤54	PASS
				AV	2390.000	-49.06	≤-41.20	46.14	≤54	PASS
				Peak	2310.000	-41.79	≤-21.20	53.41	≤74	PASS
				Peak	2355.755	-37.31	≤-21.20	57.89	≤74	PASS
				Peak	2390.000	-41.53	≤-21.20	53.67	≤74	PASS
		High	2480	AV	2483.500	-48.09	≤-41.20	47.11	≤54	PASS
				AV	2483.520	-48.09	≤-41.20	47.11	≤54	PASS
				AV	2500.000	-48.79	≤-41.20	46.41	≤54	PASS
				Peak	2483.500	-40.2	≤-21.20	55.00	≤74	PASS
				Peak	2495.840	-38.73	≤-21.20	56.47	≤74	PASS

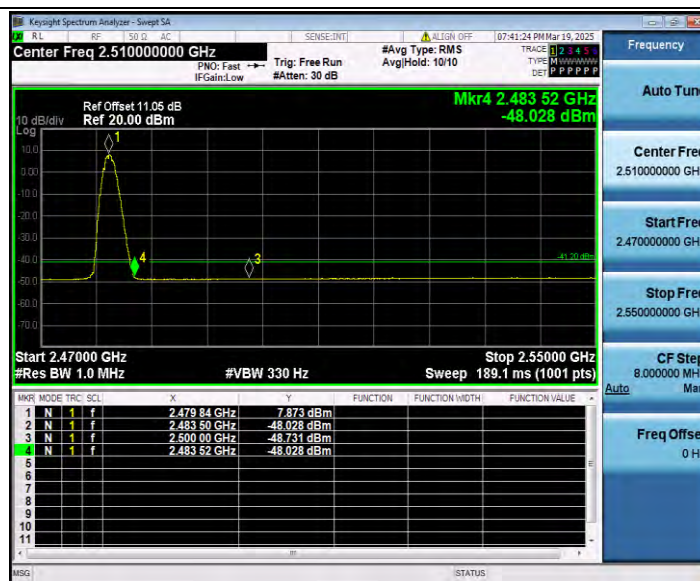
				Peak	2500.000	-40.41	≤ -21.20	54.79	≤ 74	PASS
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Note:

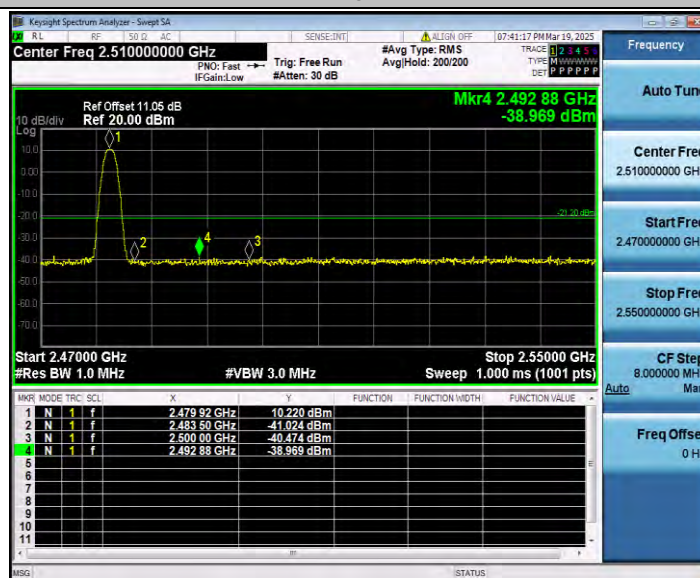
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

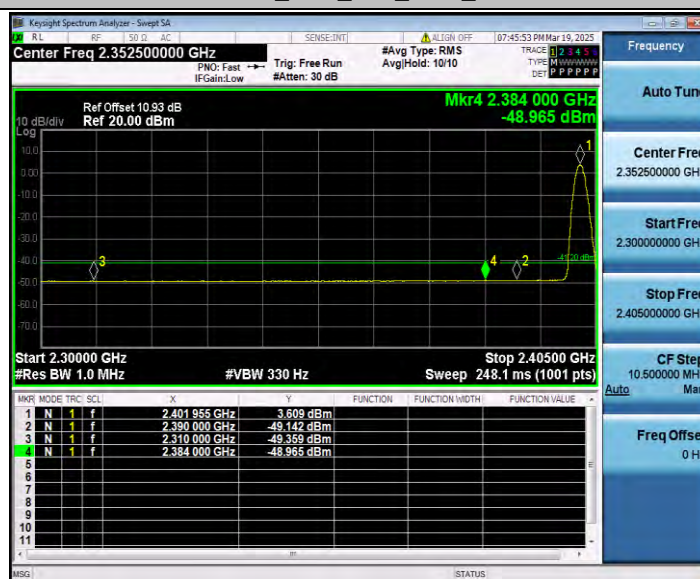




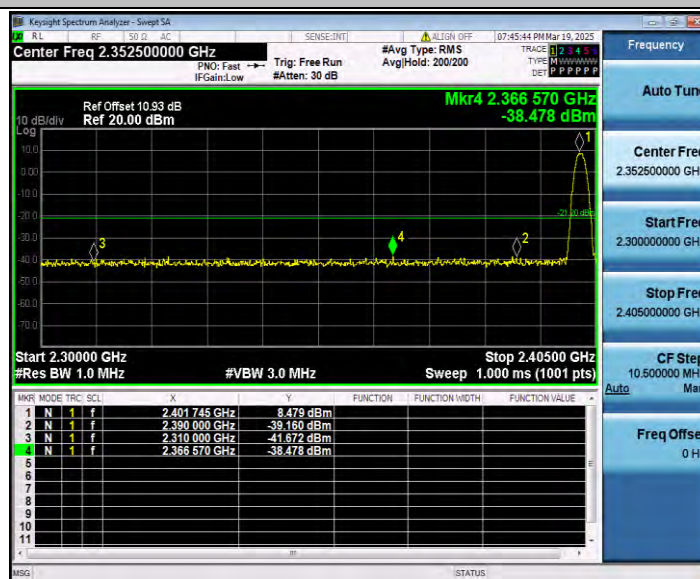
DH1_Ant1_High_2480_Peak



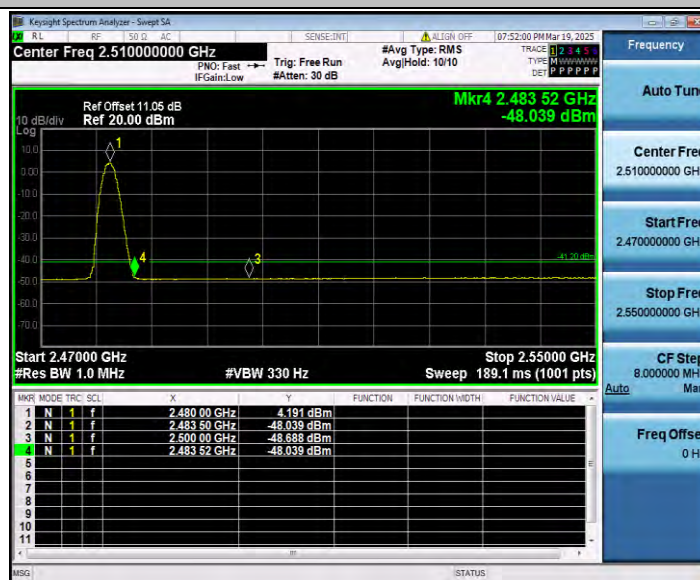
2DH1_Ant1_Low_2402_AV



2DH1_Ant1_Low_2402_Peak



2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak

