

Case No. : <u>GTS20250227001-1-01</u>	
Ambient Condition: <u>23</u> °C, <u>49</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.3.11</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	0.876	2401.547	2402.423	---	---
		2441	0.873	2440.553	2441.426	---	---
		2480	0.951	2479.484	2480.435	---	---
2DH1	Ant1	2402	1.272	2401.361	2402.633	---	---
		2441	1.281	2440.364	2441.645	---	---
		2480	1.278	2479.358	2480.636	---	---
3DH1	Ant1	2402	1.254	2401.367	2402.621	---	---
		2441	1.260	2440.364	2441.624	---	---
		2480	1.221	2479.397	2480.618	---	---

Test Graphs

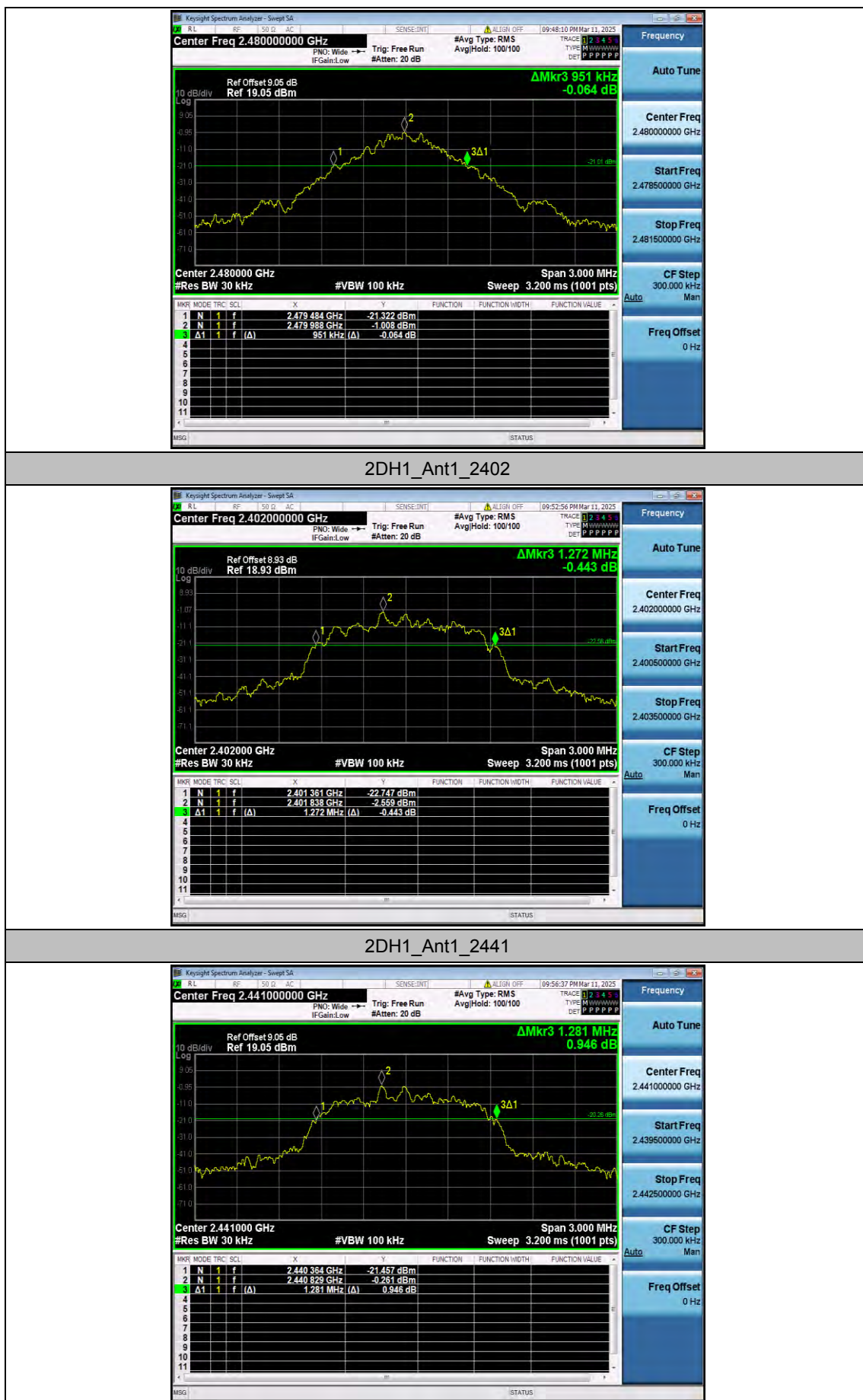
DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441

[illegible]

Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.82303	2401.5871	2402.4101	---	---
		2441	0.83020	2440.5842	2441.4144	---	---
		2480	0.85390	2479.5633	2480.4172	---	---
2DH1	Ant1	2402	1.1588	2401.4125	2402.5713	---	---
		2441	1.1654	2440.4105	2441.5759	---	---
		2480	1.1728	2479.4052	2480.5780	---	---
3DH1	Ant1	2402	1.1569	2401.4284	2402.5853	---	---
		2441	1.1598	2440.4284	2441.5882	---	---
		2480	1.1557	2479.4230	2480.5787	---	---

Test Graphs

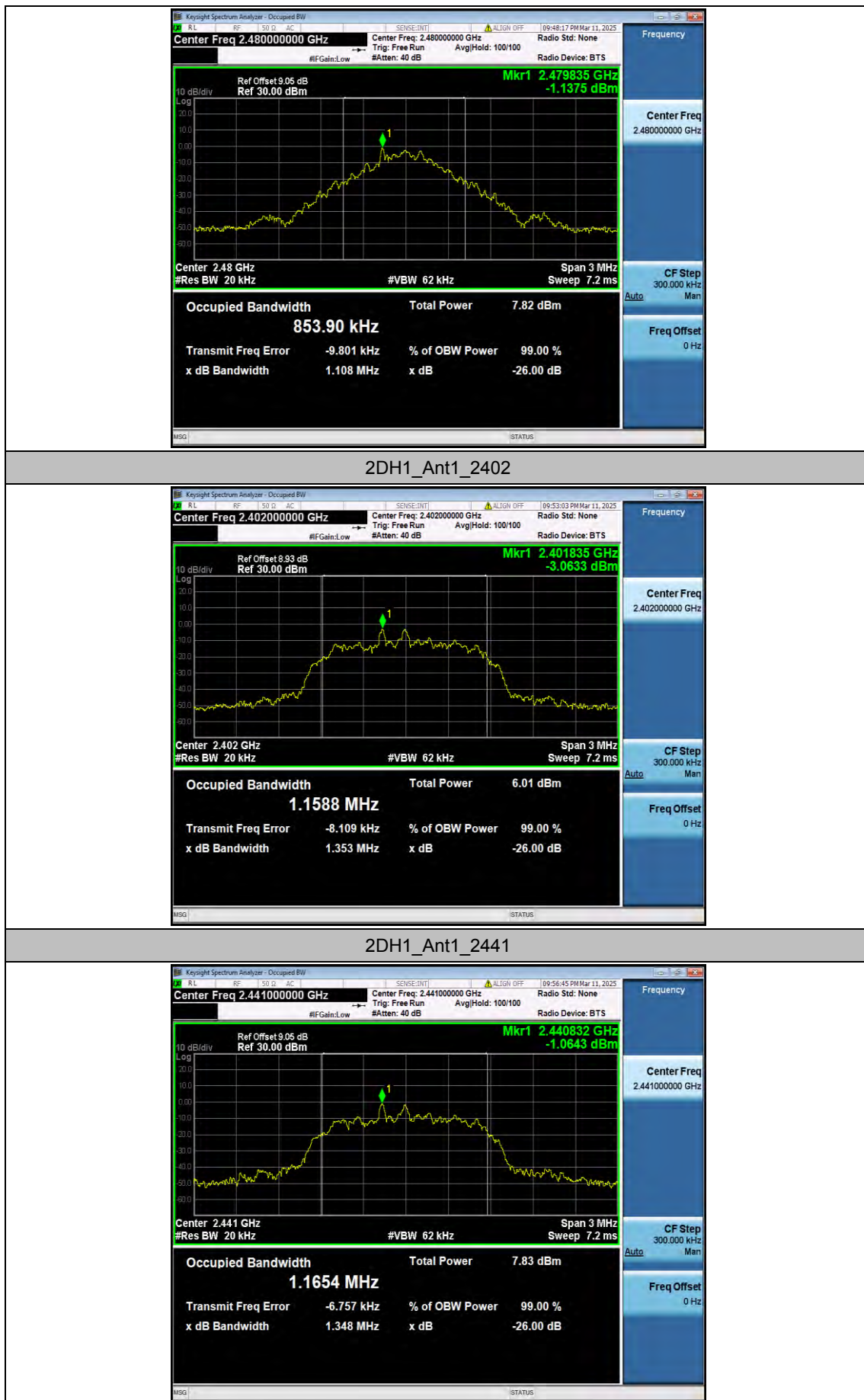
DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



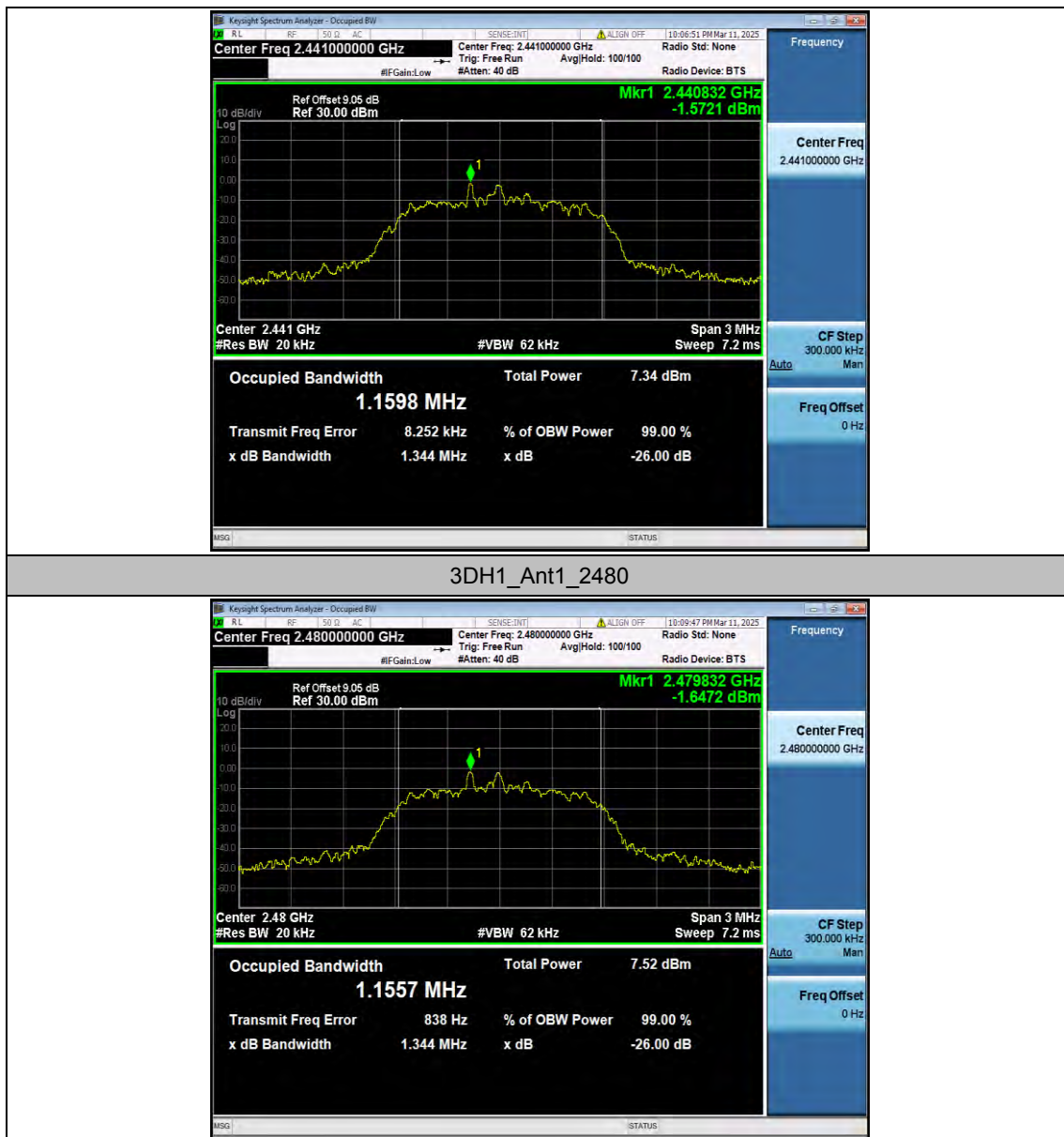
2DH1_Ant1_2480



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	0.22	≤30.00	PASS
		2441	2.01	≤30.00	PASS
		2480	1.94	≤30.00	PASS
2DH1	Ant1	2402	1.04	≤20.97	PASS
		2441	2.66	≤20.97	PASS
		2480	2.63	≤20.97	PASS
3DH1	Ant1	2402	1.50	≤20.97	PASS
		2441	3.09	≤20.97	PASS
		2480	2.99	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	1.006	≥ 0.951	PASS
		Hop_2441	1.014	≥ 0.951	PASS
		Hop_2480	0.99	≥ 0.951	PASS
2DH1	Ant1	Hop_2402	0.996	≥ 0.854	PASS
		Hop_2441	0.982	≥ 0.854	PASS
		Hop_2480	1.016	≥ 0.854	PASS
3DH1	Ant1	Hop_2402	1.13	≥ 0.840	PASS
		Hop_2441	0.996	≥ 0.840	PASS
		Hop_2480	0.99	≥ 0.840	PASS

Test Graphs

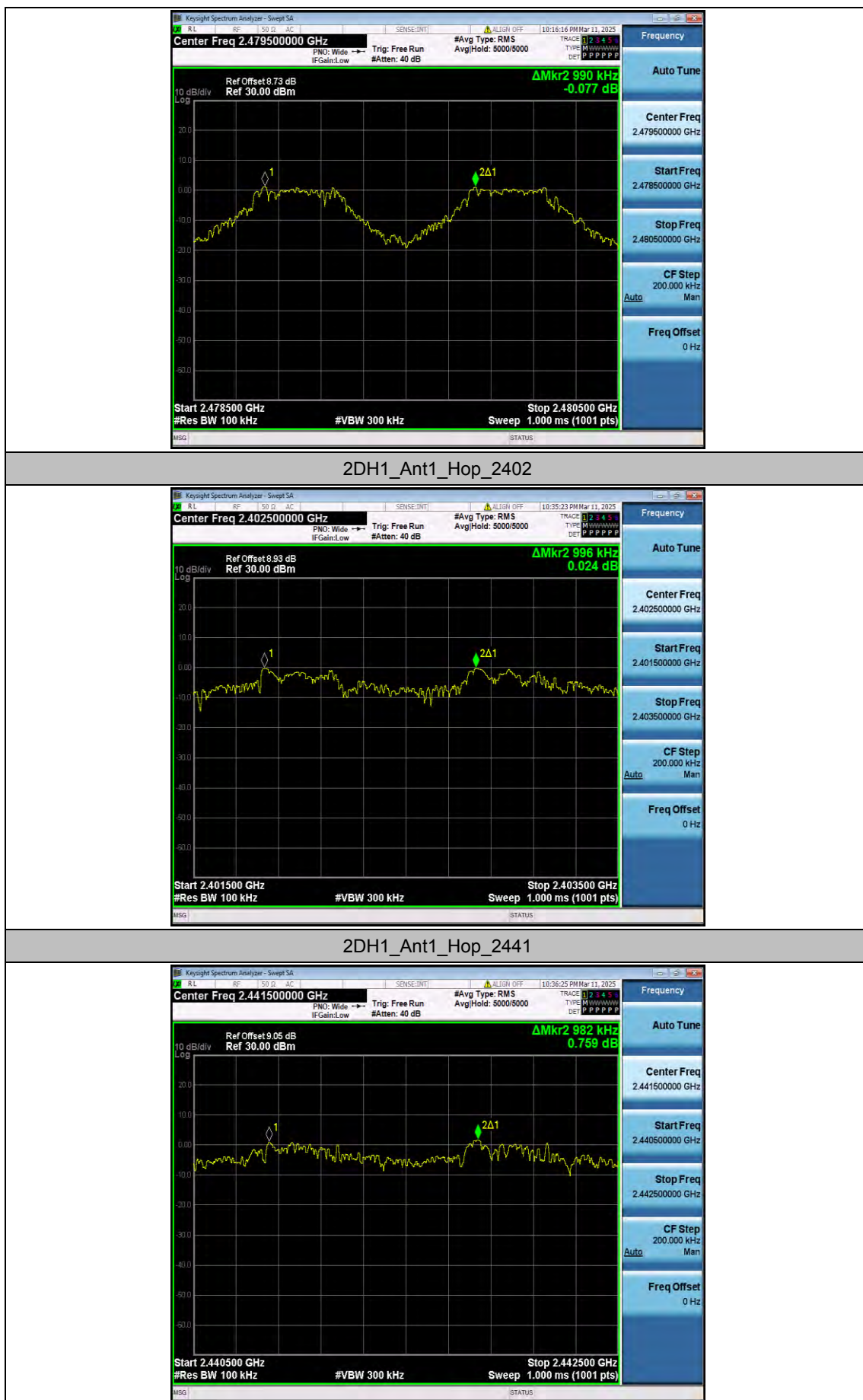
DH1_Ant1_Hop_2402



DH1_Ant1_Hop_2441



DH1_Ant1_Hop_2480



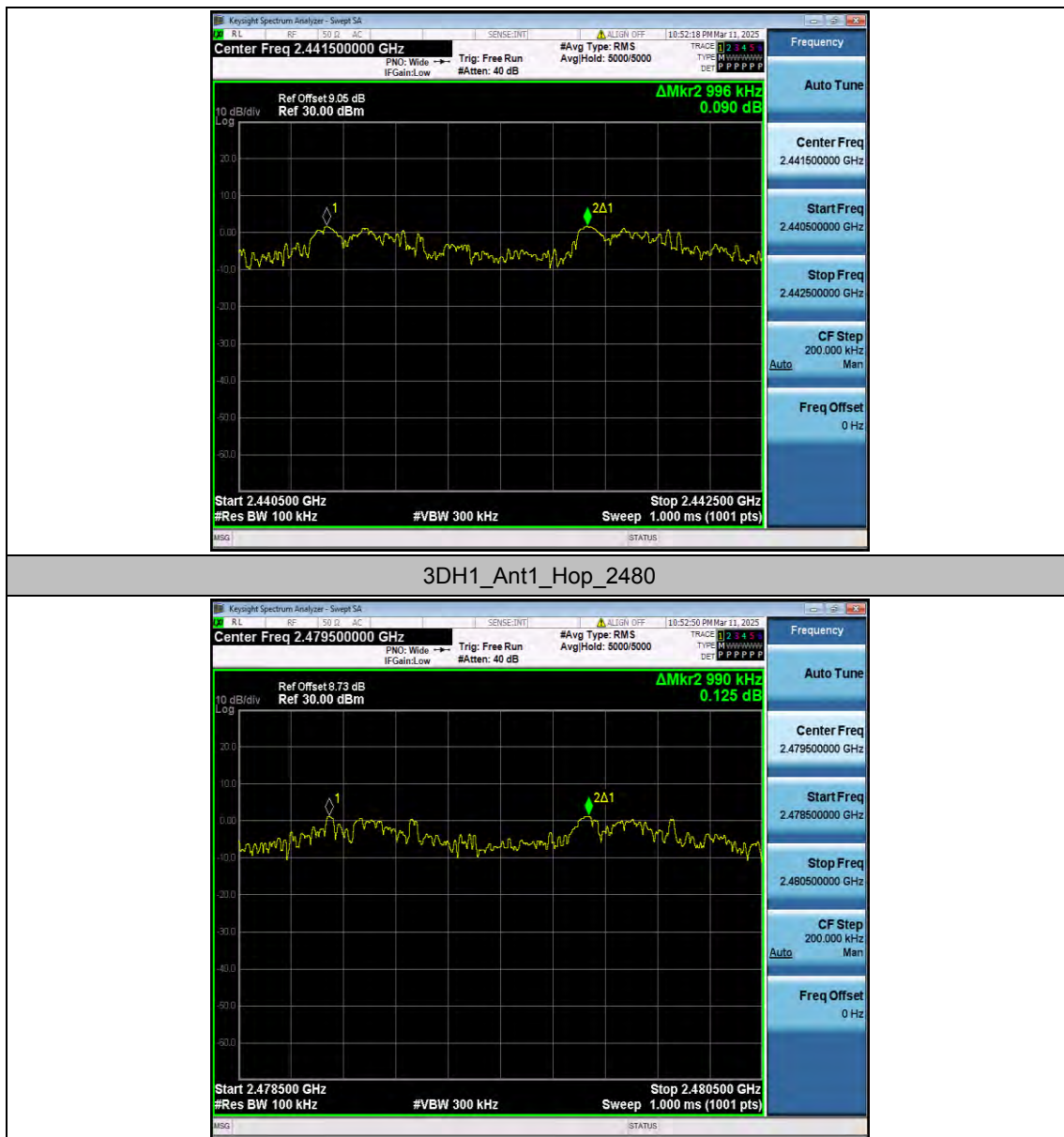
2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441

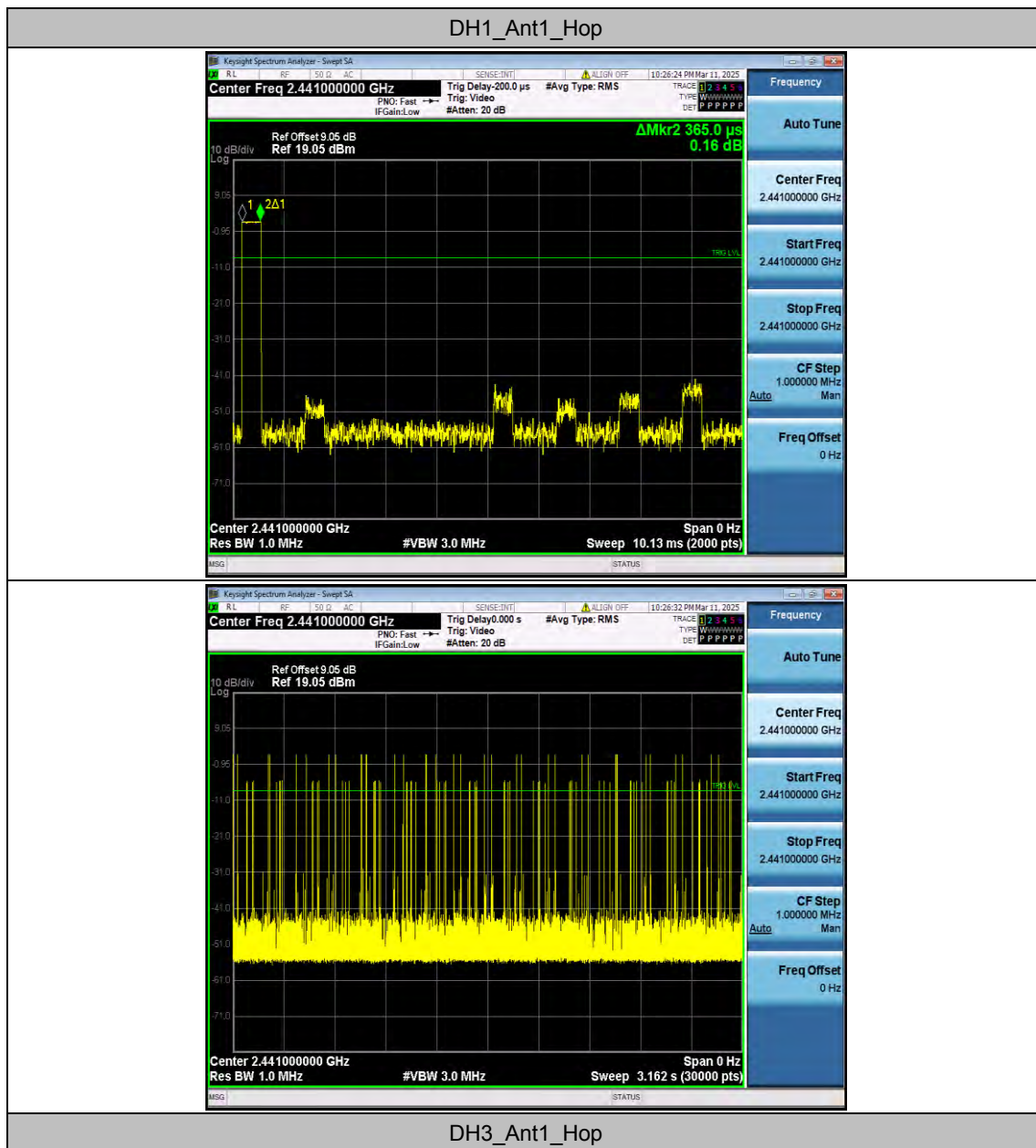


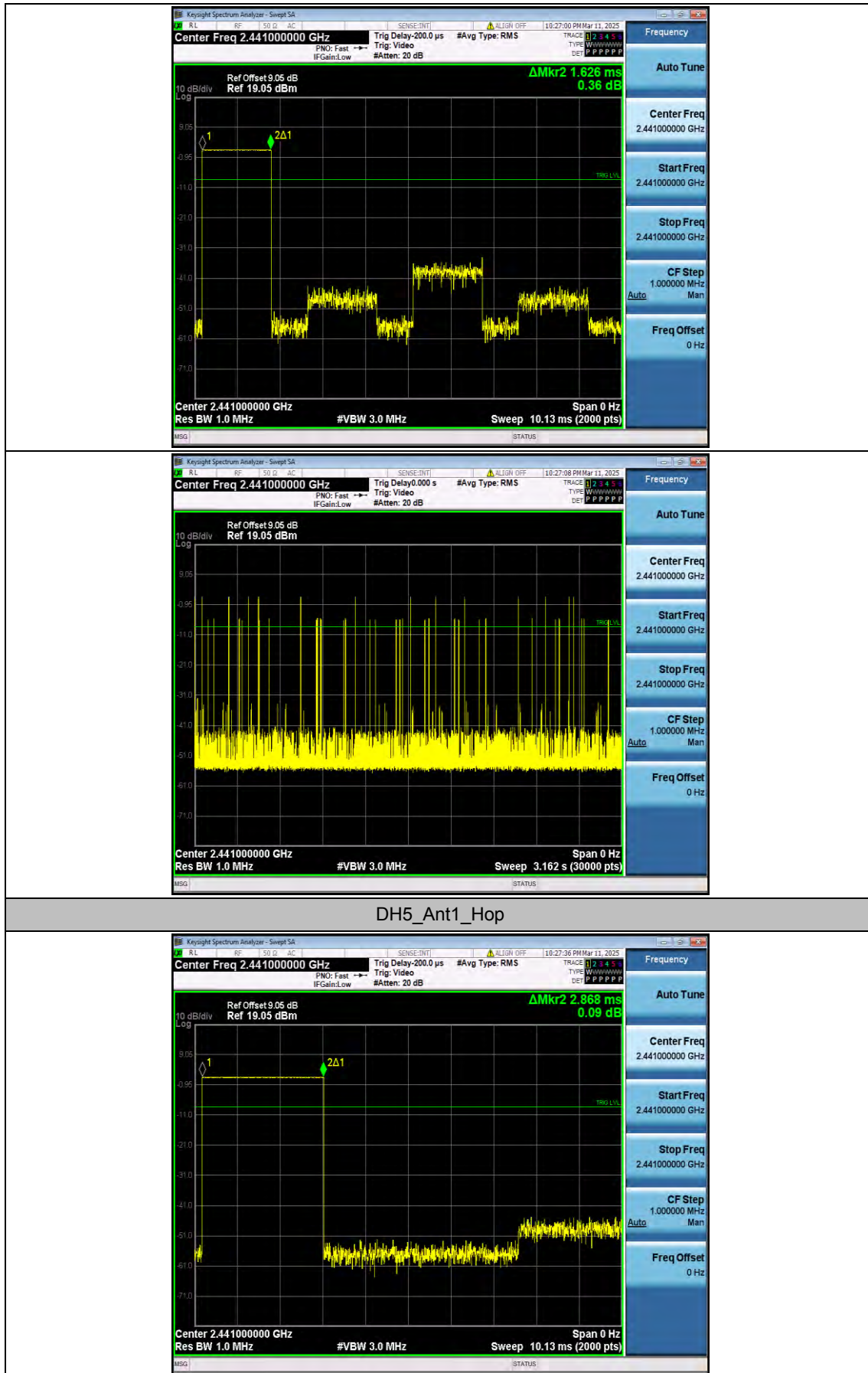
Appendix A.5: Time of occupancy

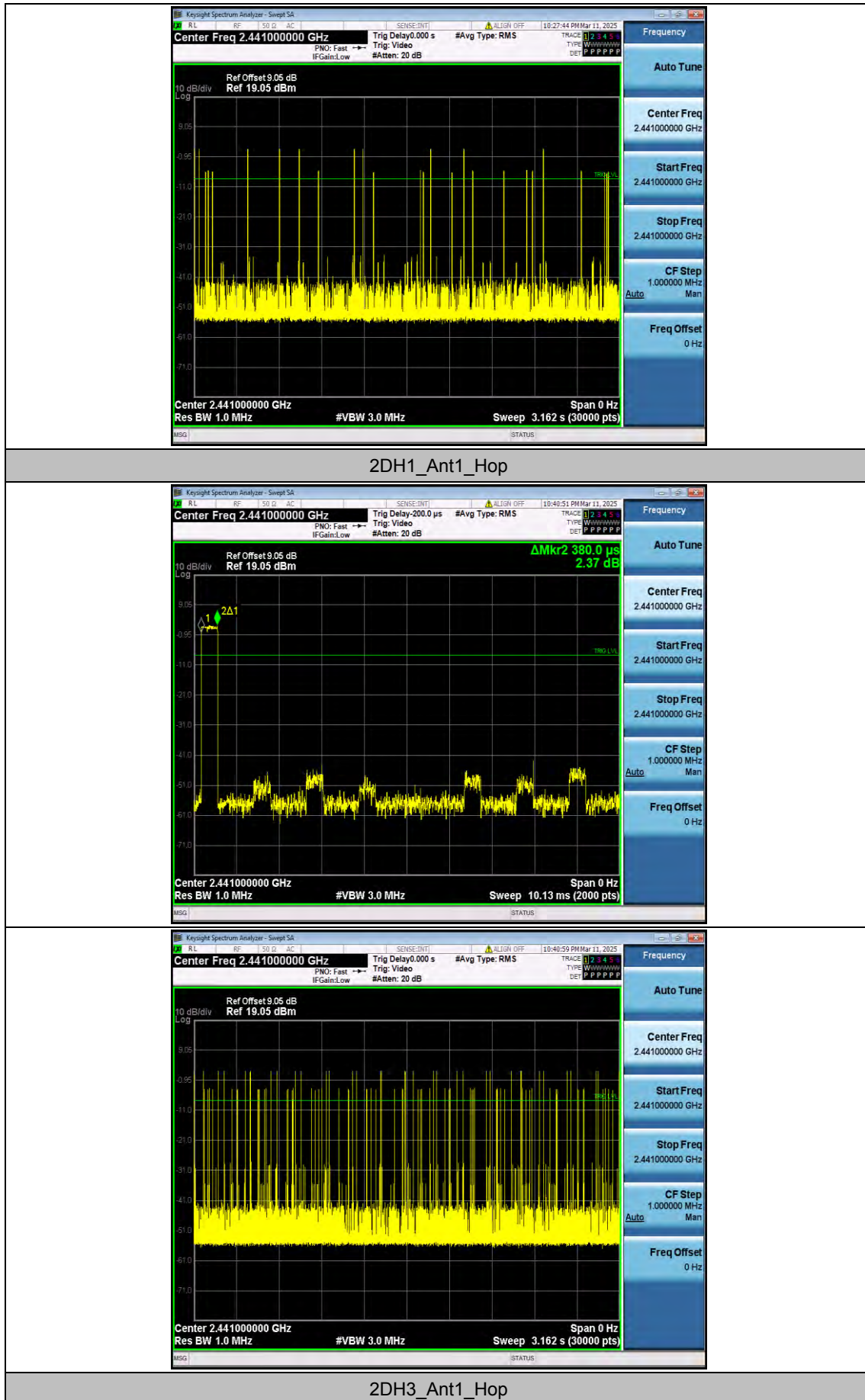
Test Result

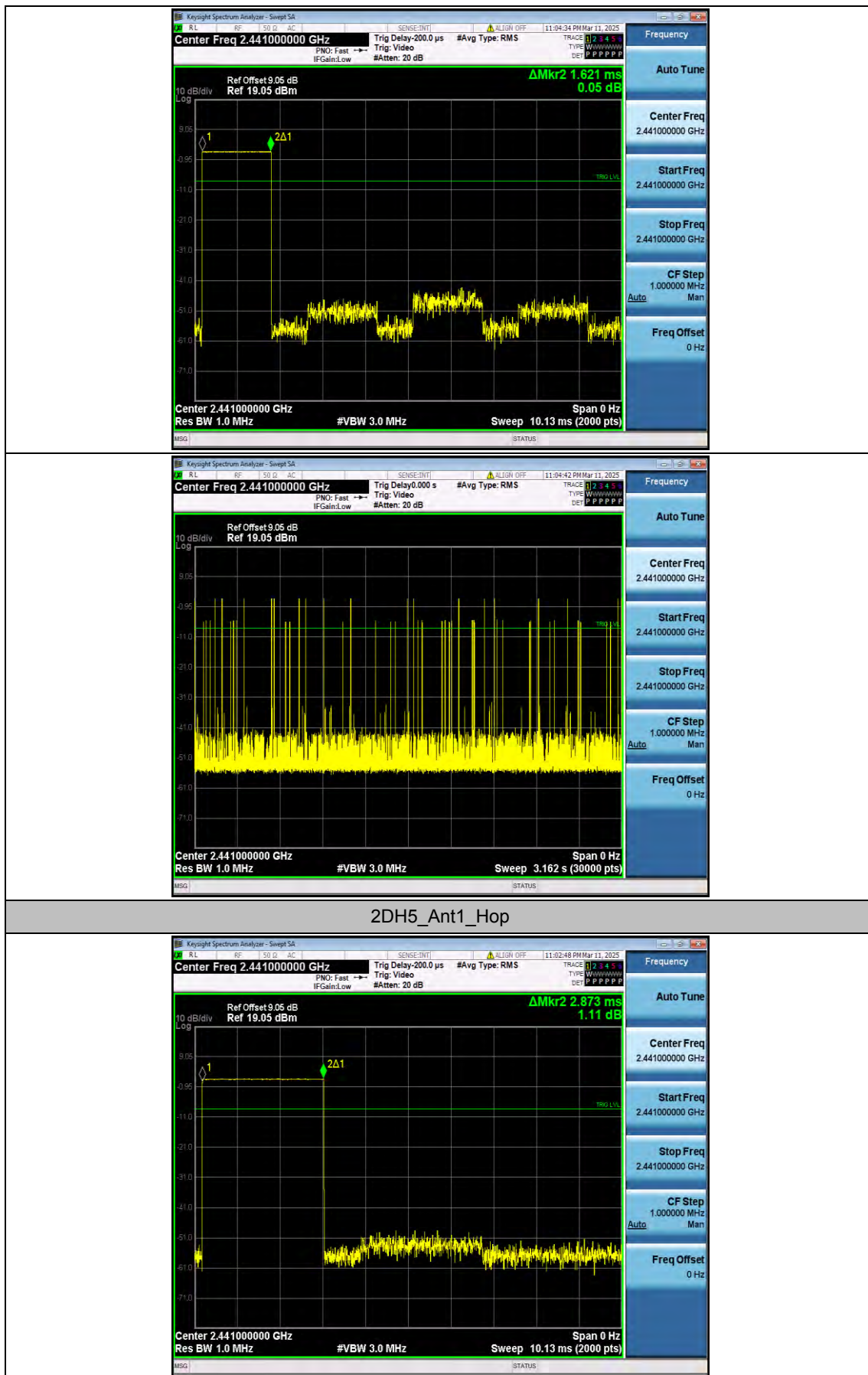
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.365	320	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.626	140	0.228	≤0.4	PASS
DH5	Ant1	Hop	2.868	100	0.287	≤0.4	PASS
2DH1	Ant1	Hop	0.380	510	0.194	≤0.4	PASS
2DH3	Ant1	Hop	1.621	190	0.308	≤0.4	PASS
2DH5	Ant1	Hop	2.873	130	0.373	≤0.4	PASS
3DH1	Ant1	Hop	0.365	330	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.626	180	0.293	≤0.4	PASS
3DH5	Ant1	Hop	2.883	130	0.375	≤0.4	PASS

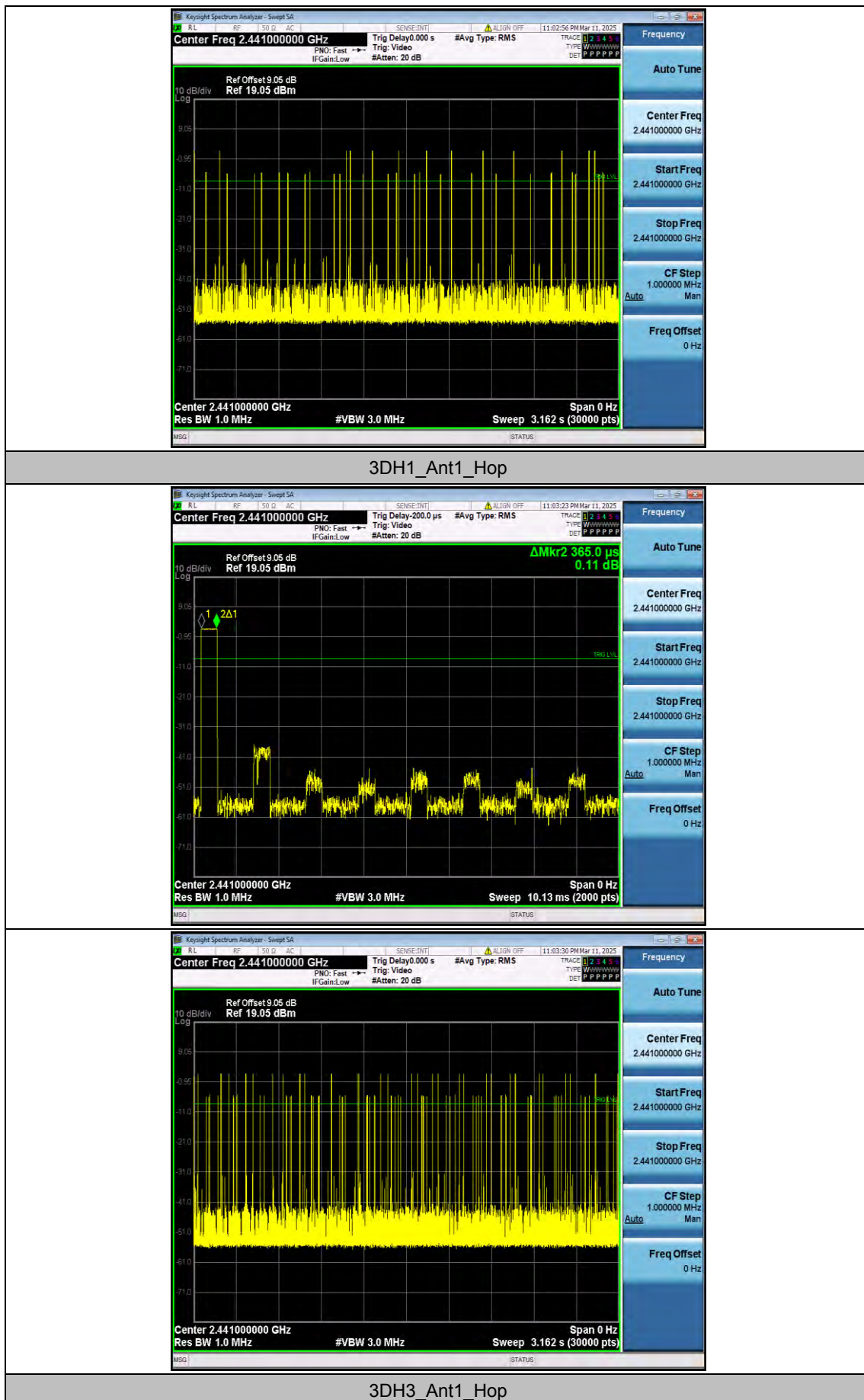
Test Graphs

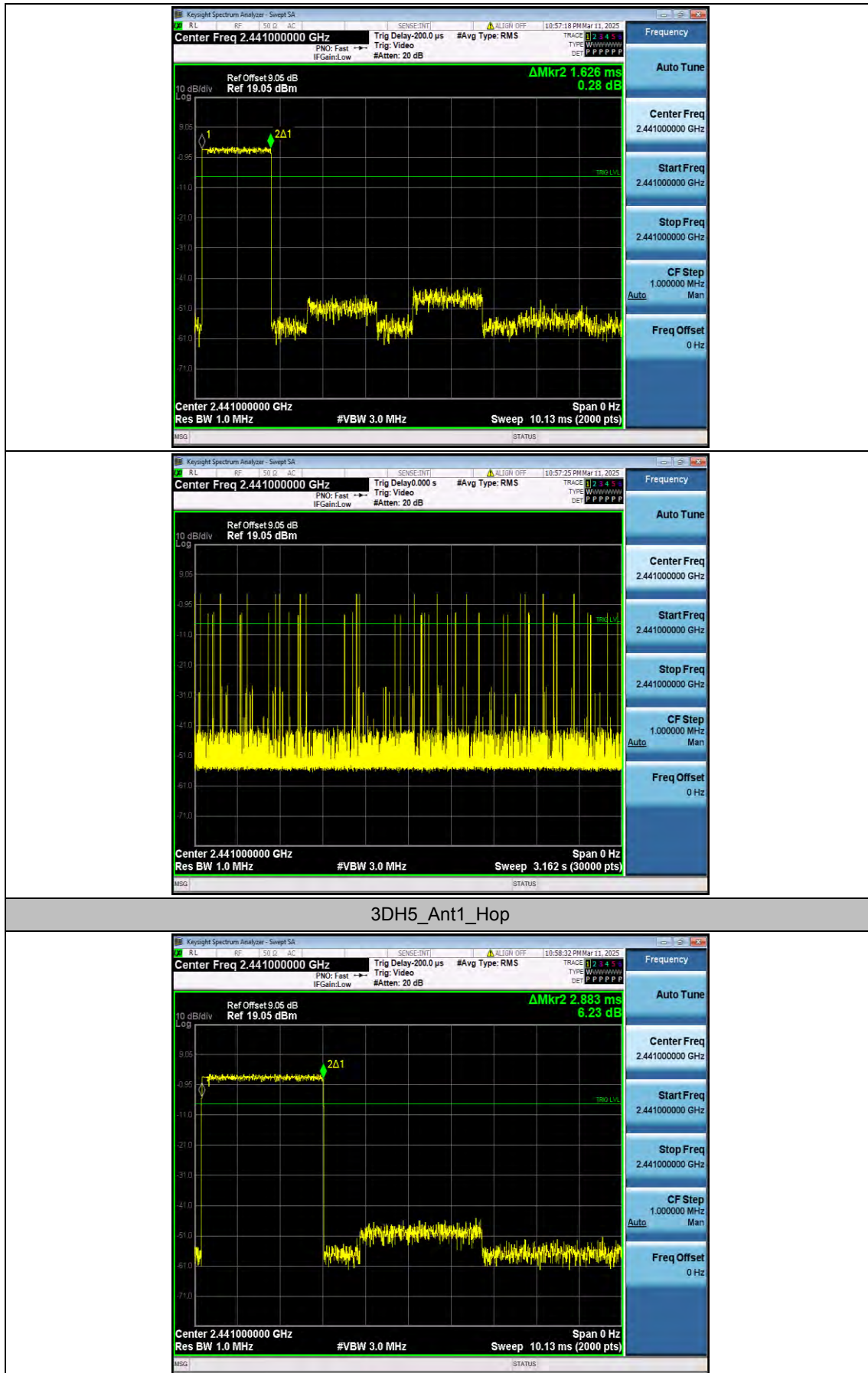


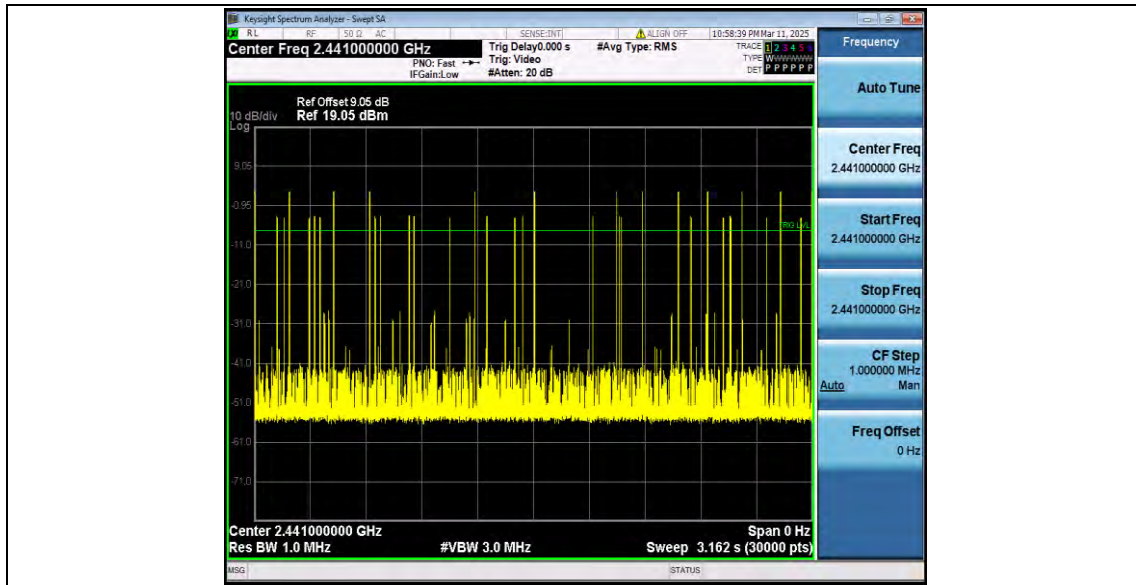










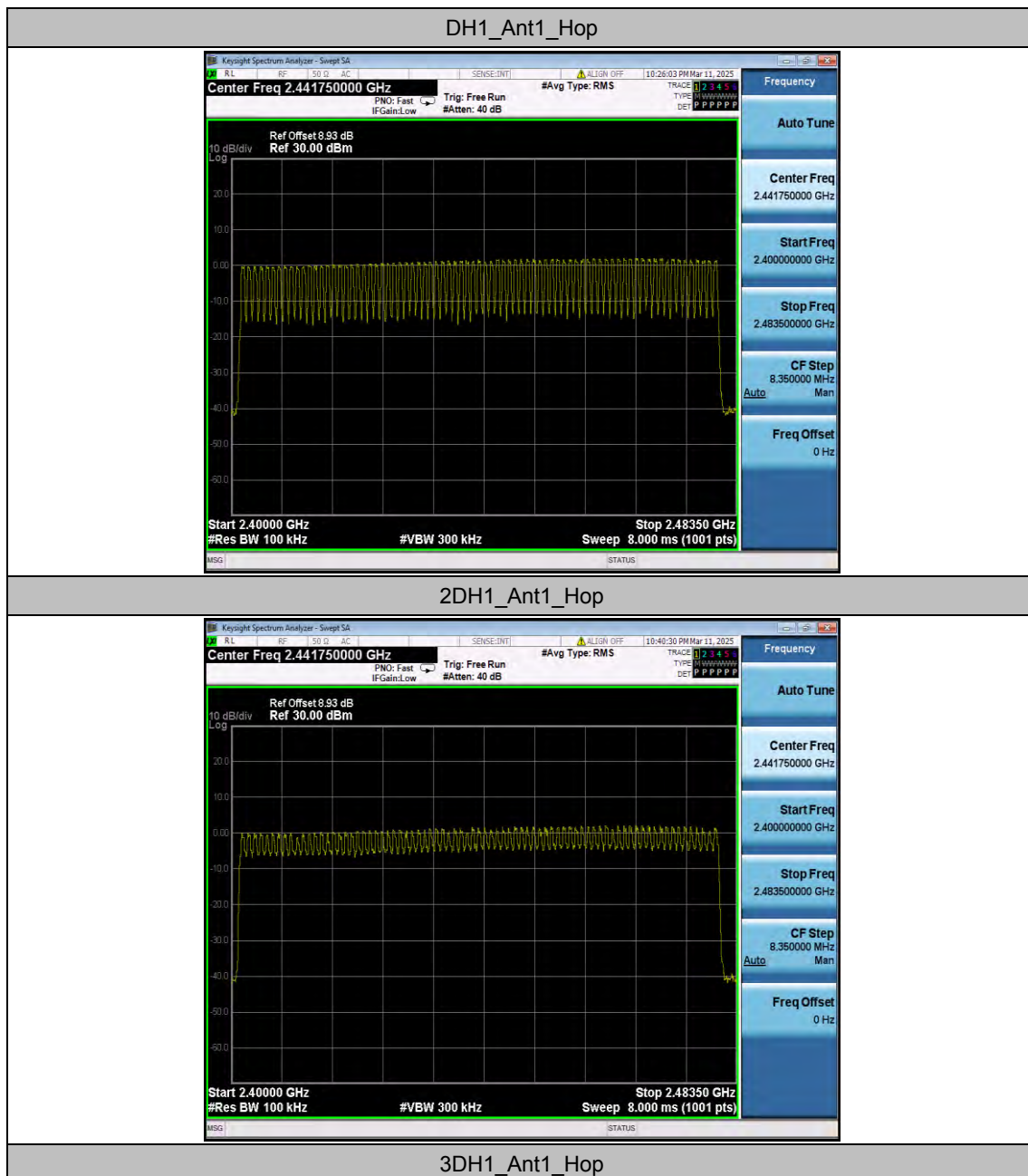


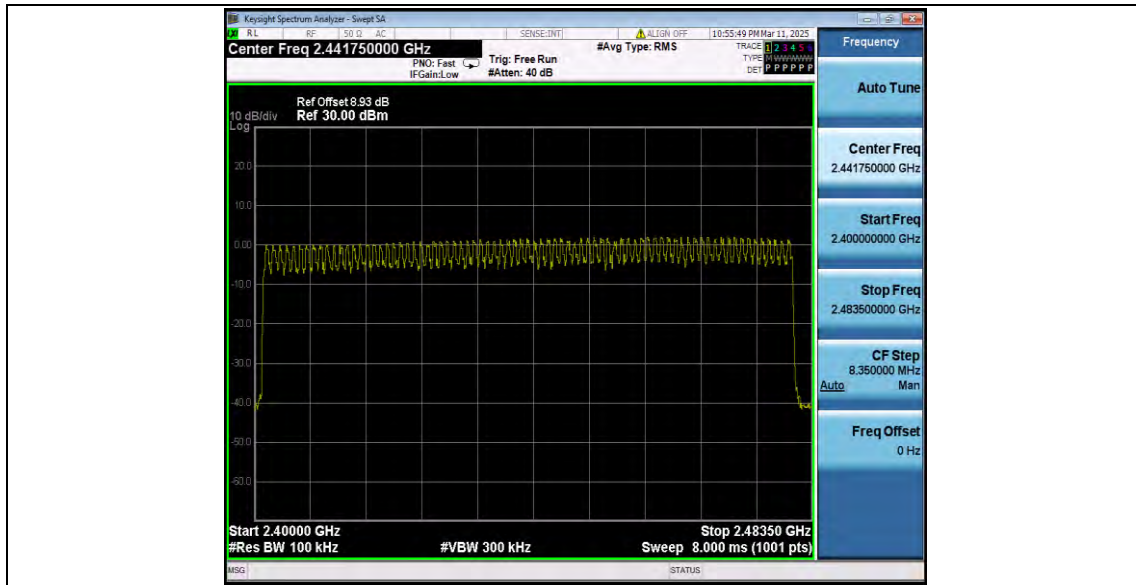
Appendix A.6: Number of hopping channels

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





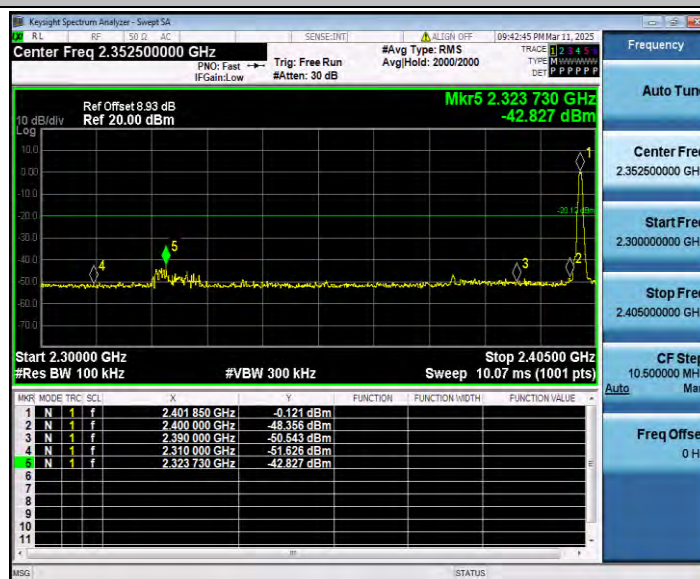
Appendix A.7: Band edge measurements

Test Result

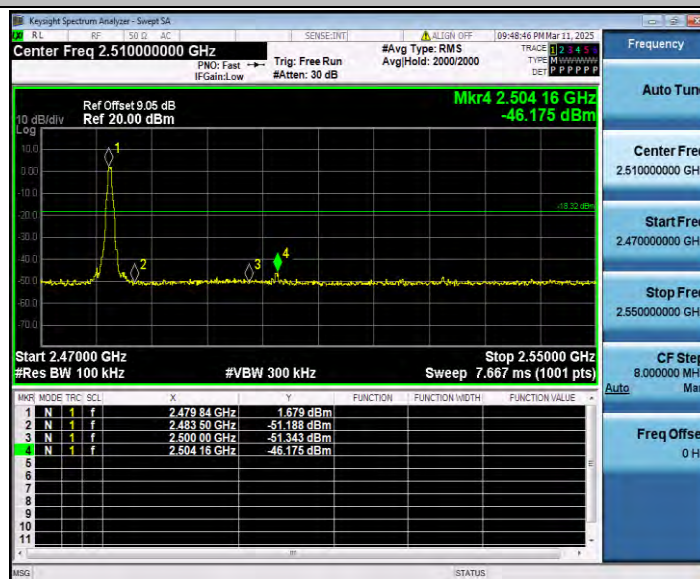
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	-0.12	-42.83	≤ -20.12	PASS
		High	2480	1.68	-46.18	≤ -18.32	PASS
		Low	Hop_2402	-0.28	-41.78	≤ -20.28	PASS
		High	Hop_2480	1.75	-46.15	≤ -18.25	PASS
2DH1	Ant1	Low	2402	-0.13	-46.83	≤ -20.13	PASS
		High	2480	1.71	-44.37	≤ -18.3	PASS
		Low	Hop_2402	-0.31	-46.09	≤ -20.31	PASS
		High	Hop_2480	1.36	-47.02	≤ -18.64	PASS
3DH1	Ant1	Low	2402	-0.15	-47.89	≤ -20.15	PASS
		High	2480	1.57	-46.17	≤ -18.44	PASS
		Low	Hop_2402	-0.52	-43.16	≤ -20.52	PASS
		High	Hop_2480	1.87	-47.45	≤ -18.13	PASS

Test Graphs

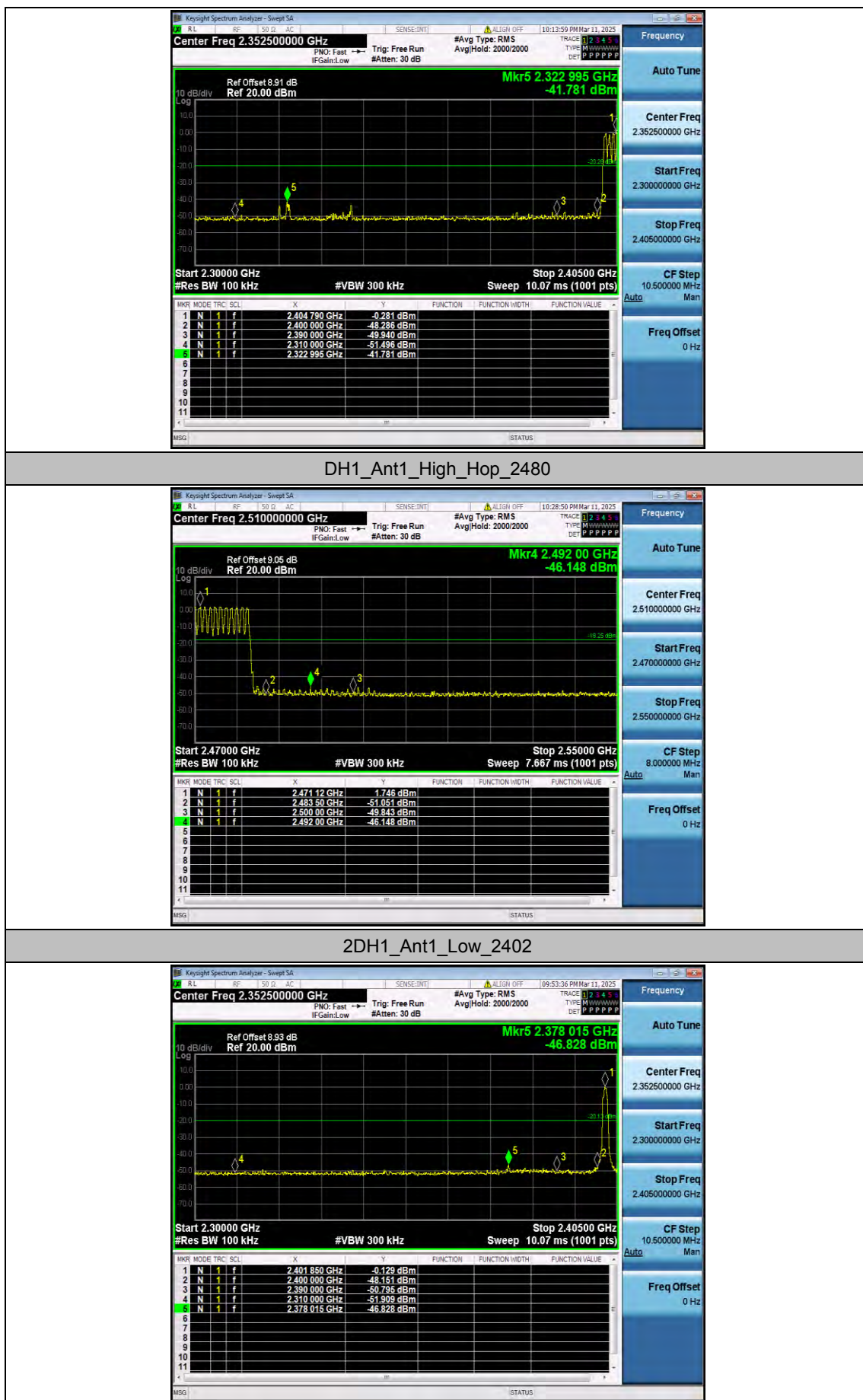
DH1_Ant1_Low_2402



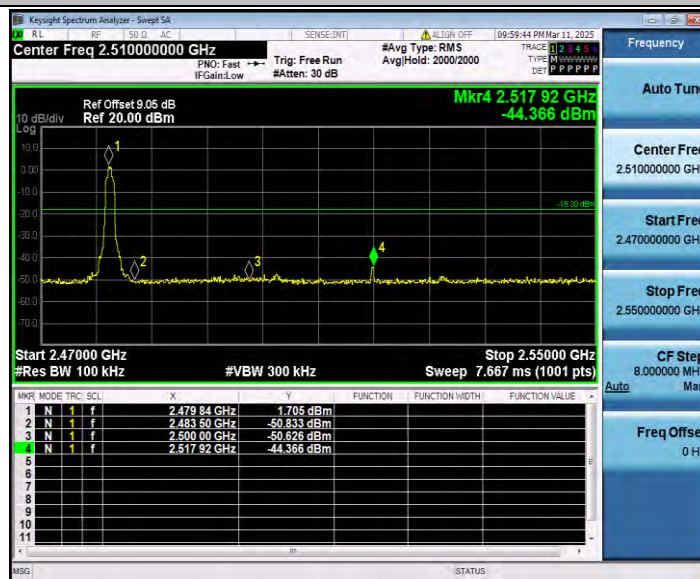
DH1_Ant1_High_2480



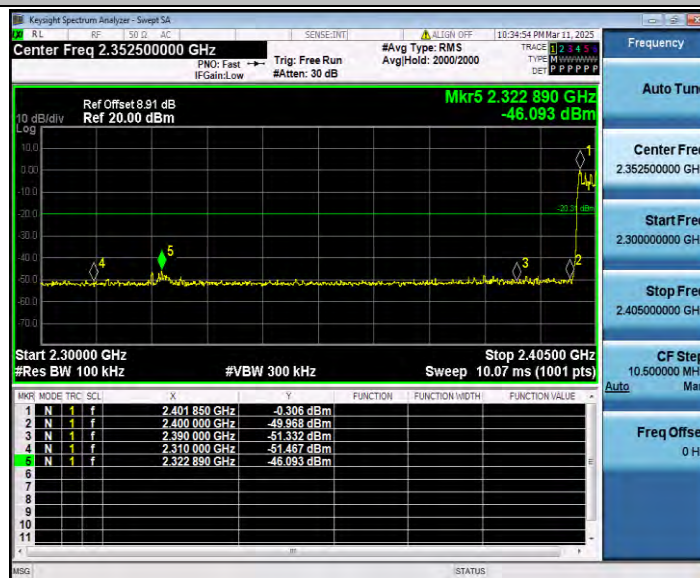
DH1_Ant1_Low_Hop_2402



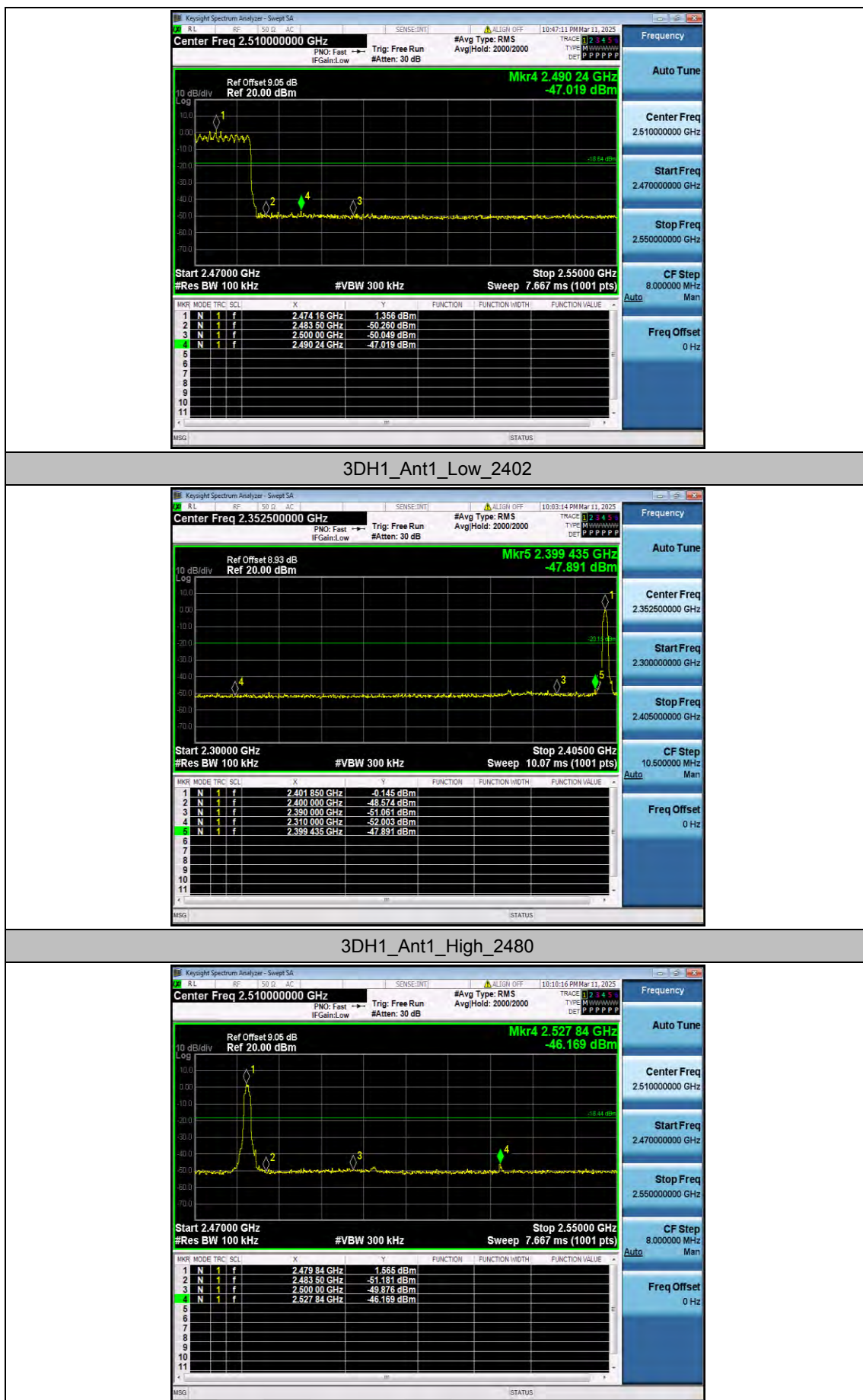
2DH1_Ant1_High_2480



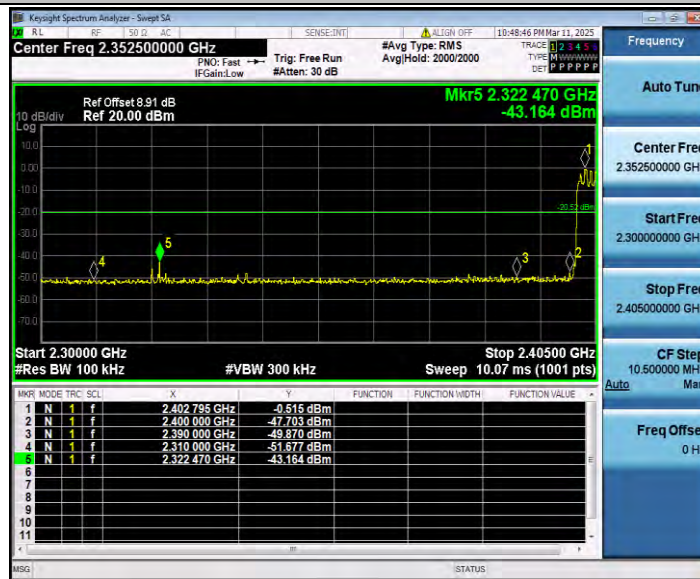
2DH1_Ant1_Low_Hop_2402



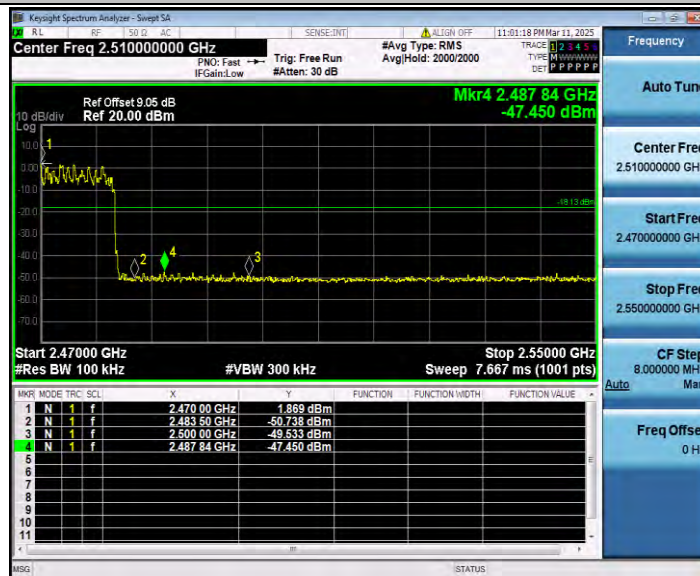
2DH1_Ant1_High_Hop_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

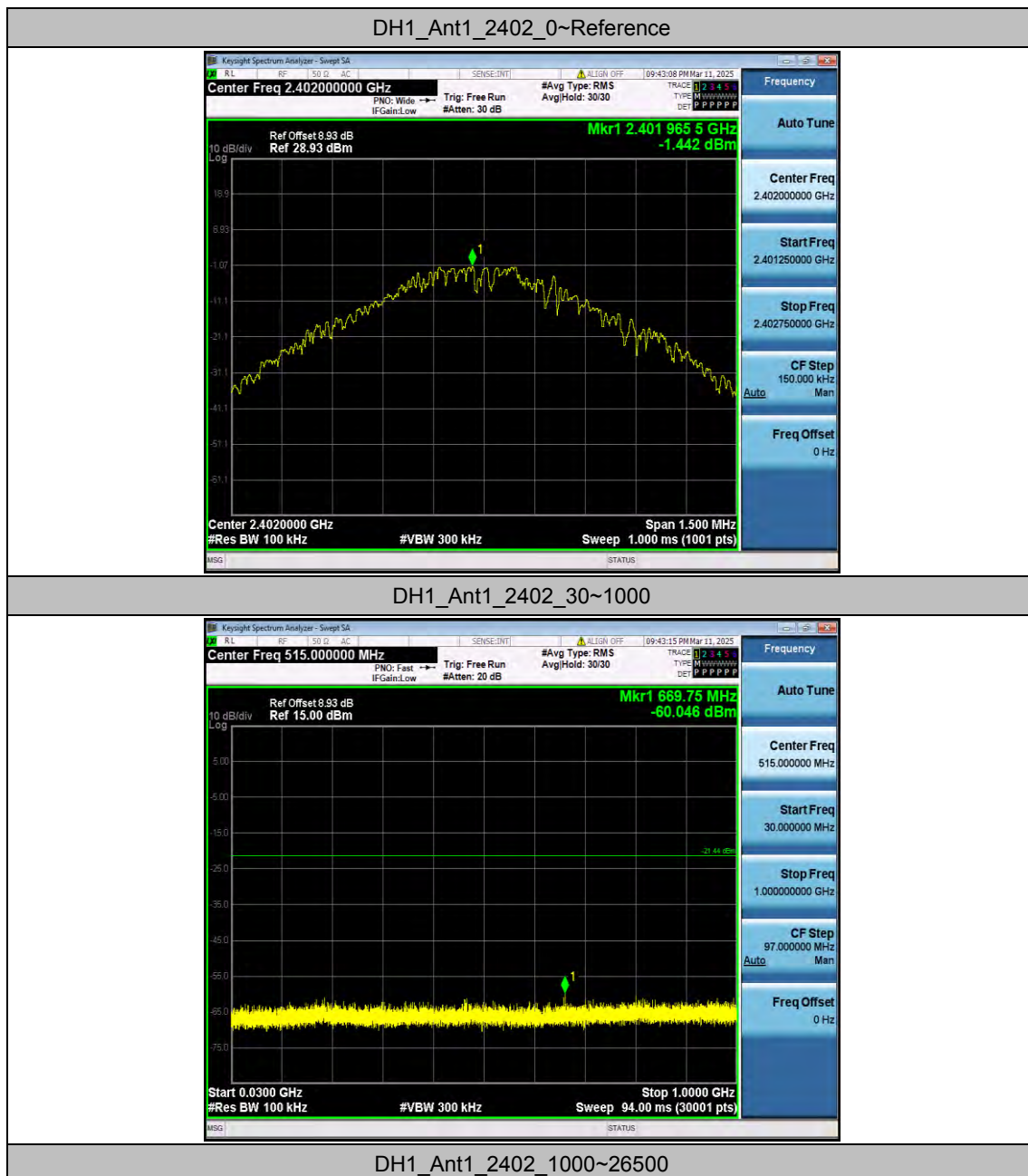


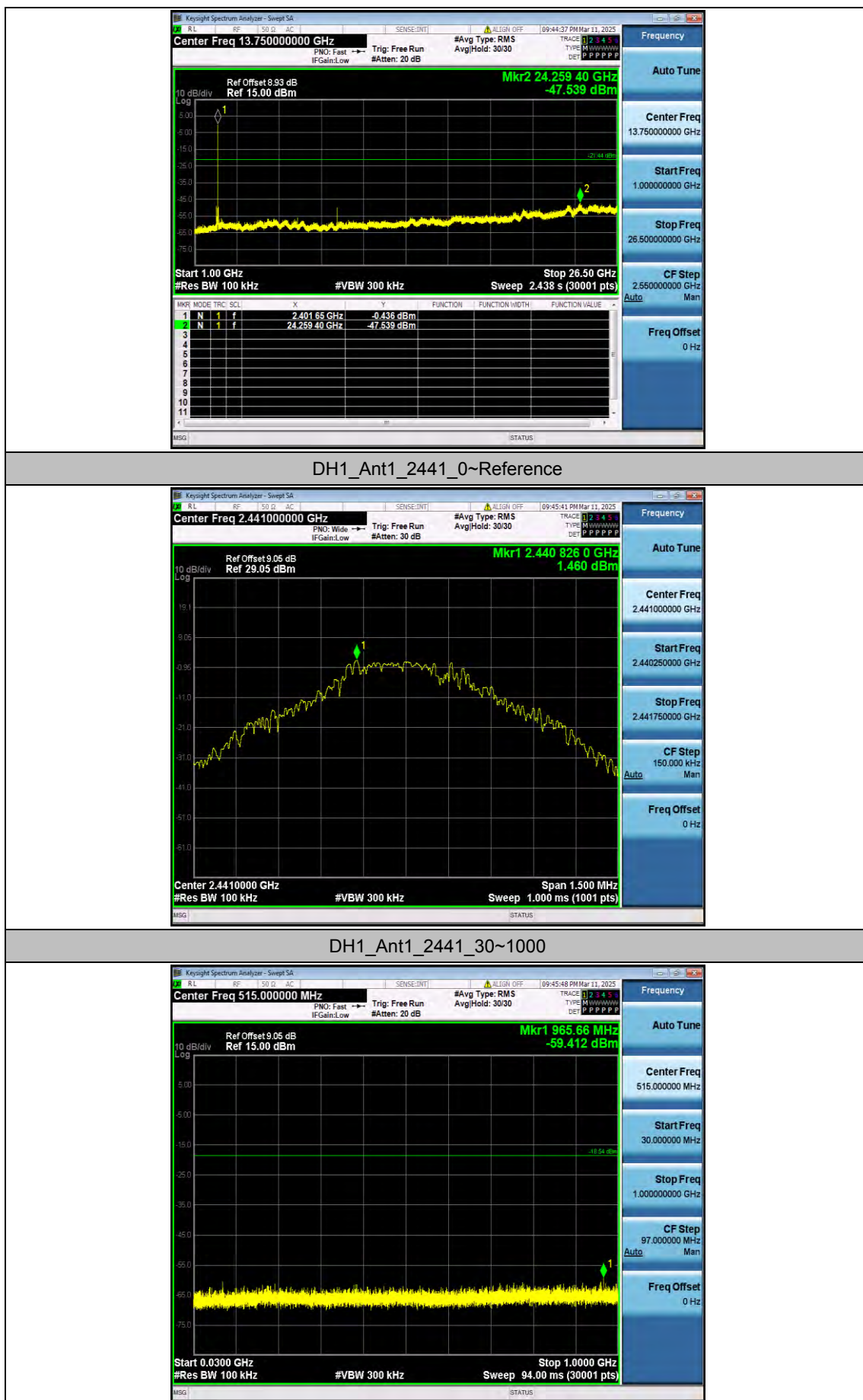
Appendix A.8: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	-1.44	-1.44	---	PASS
			30~1000	-1.44	-60.05	≤ -21.44	PASS
			1000~26500	-1.44	-47.54	≤ -21.44	PASS
		2441	Reference	1.46	1.46	---	PASS
			30~1000	1.46	-59.41	≤ -18.54	PASS
			1000~26500	1.46	-47.98	≤ -18.54	PASS
		2480	Reference	1.36	1.36	---	PASS
			30~1000	1.36	-60.33	≤ -18.64	PASS
			1000~26500	1.36	-42.55	≤ -18.64	PASS
2DH1	Ant1	2402	Reference	-0.21	-0.21	---	PASS
			30~1000	-0.21	-60.39	≤ -20.21	PASS
			1000~26500	-0.21	-46.99	≤ -20.21	PASS
		2441	Reference	1.59	1.59	---	PASS
			30~1000	1.59	-60.18	≤ -18.41	PASS
			1000~26500	1.59	-47.85	≤ -18.41	PASS
		2480	Reference	1.53	1.53	---	PASS
			30~1000	1.53	-60.02	≤ -18.47	PASS
			1000~26500	1.53	-47.8	≤ -18.47	PASS
3DH1	Ant1	2402	Reference	-0.25	-0.25	---	PASS
			30~1000	-0.25	-61.03	≤ -20.25	PASS
			1000~26500	-0.25	-47.36	≤ -20.25	PASS
		2441	Reference	1.54	1.54	---	PASS
			30~1000	1.54	-61.05	≤ -18.46	PASS
			1000~26500	1.54	-47.82	≤ -18.46	PASS
		2480	Reference	0.94	0.94	---	PASS
			30~1000	0.94	-60.67	≤ -19.06	PASS
			1000~26500	0.94	-47.61	≤ -19.06	PASS

Test Graphs





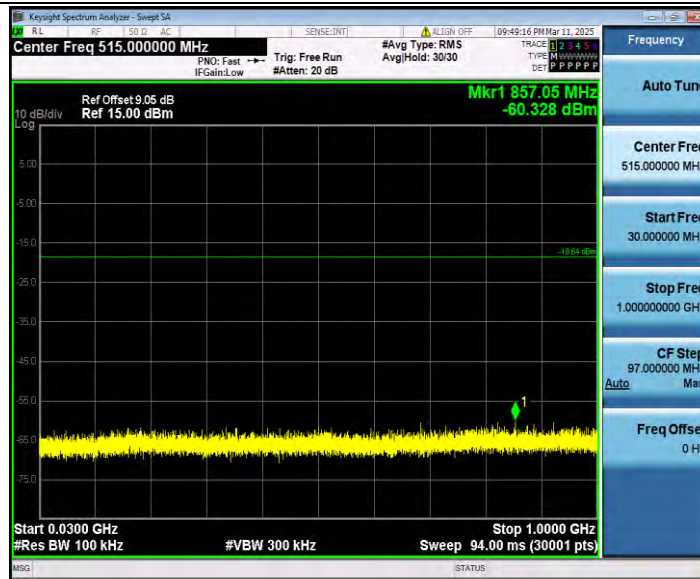
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000

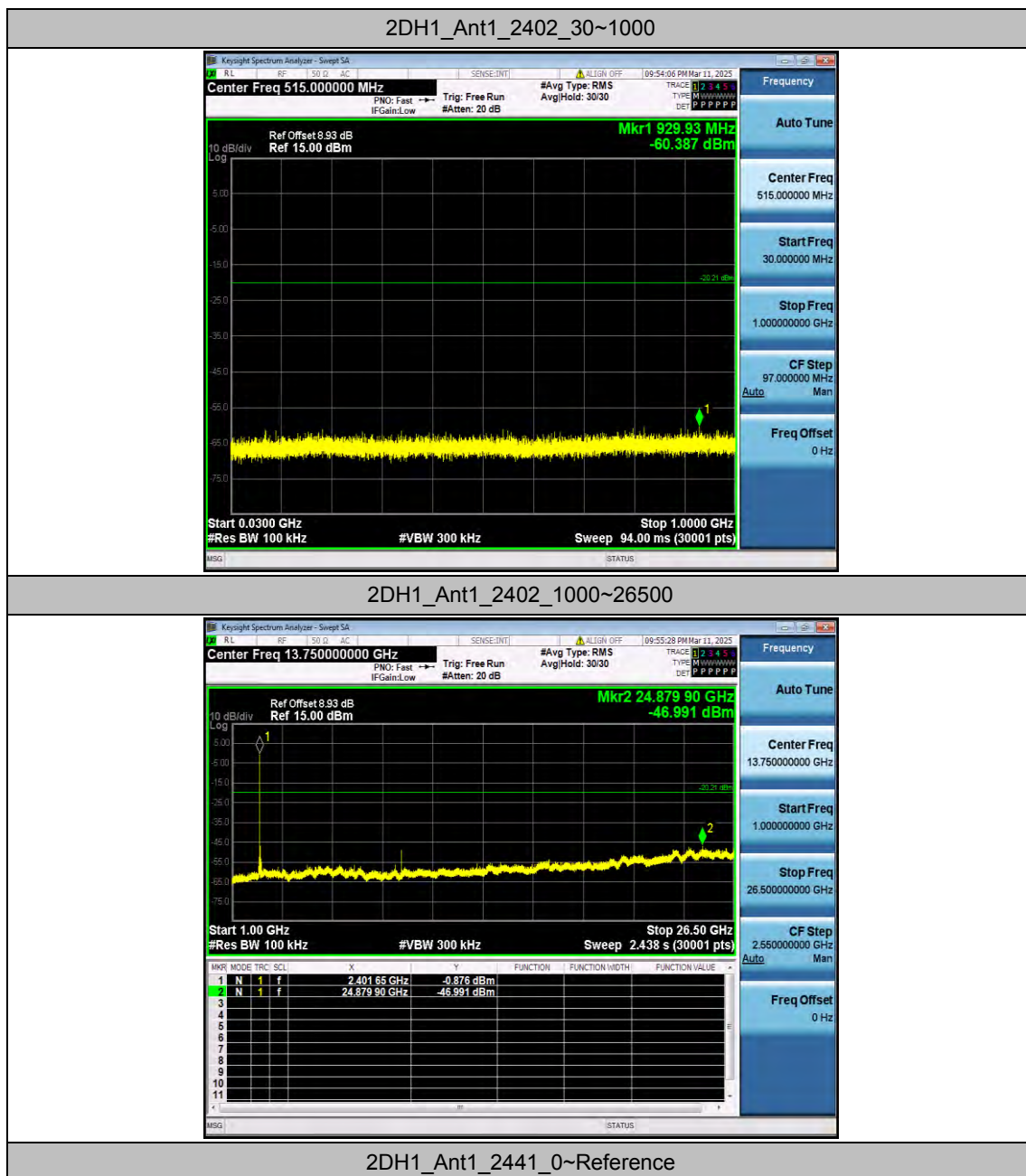


DH1_Ant1_2480_1000~26500

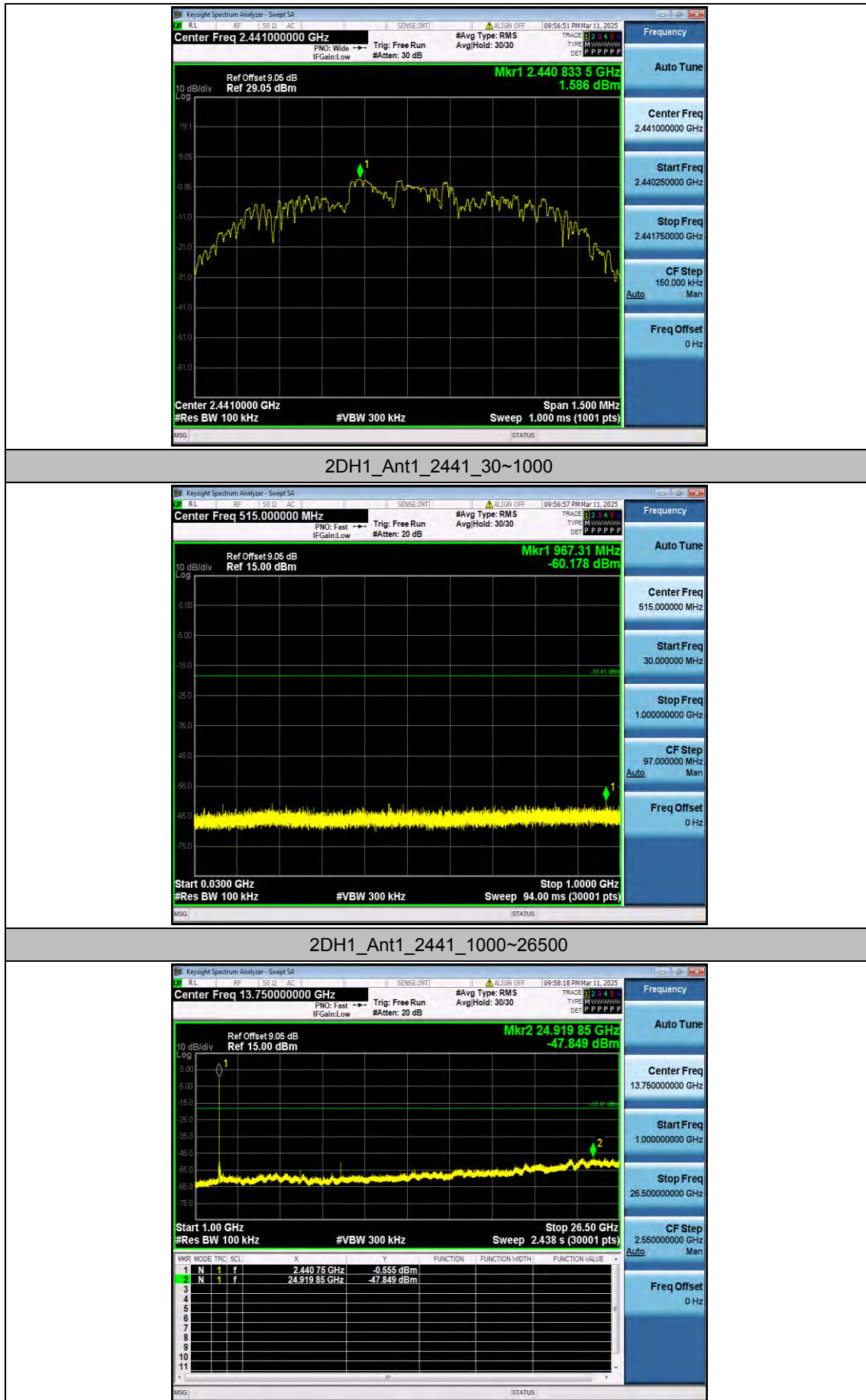


2DH1_Ant1_2402_0~Reference





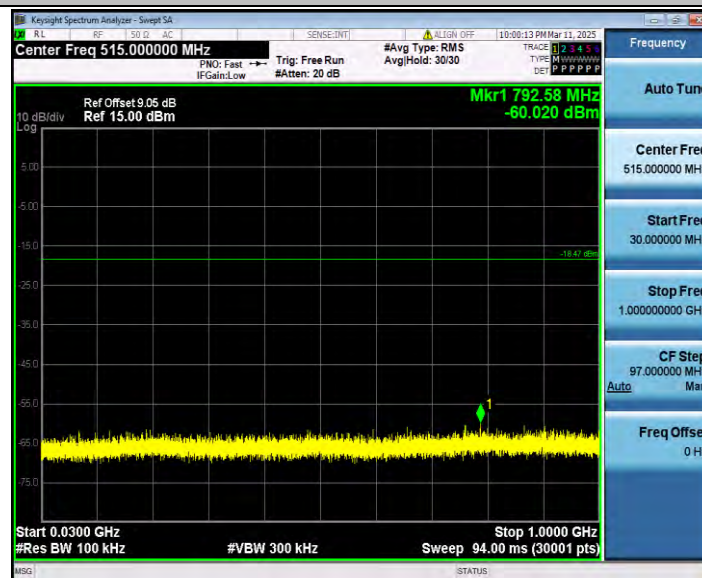
2DH1_Ant1_2441_0~Reference



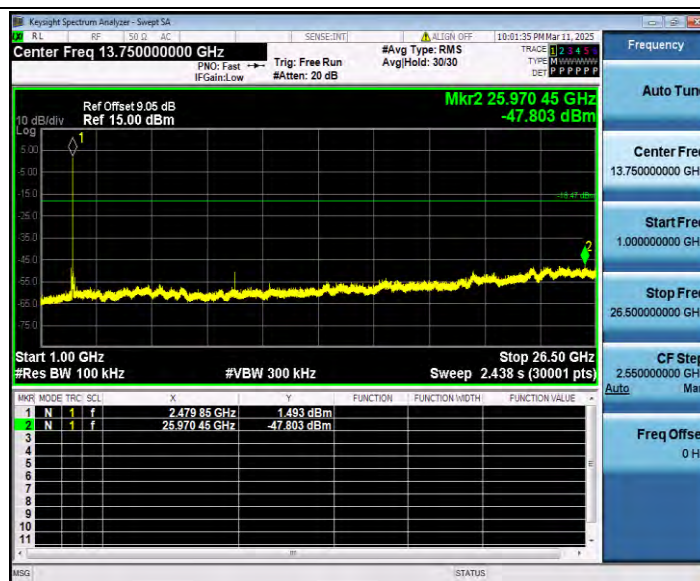
2DH1_Ant1_2480_0~Reference



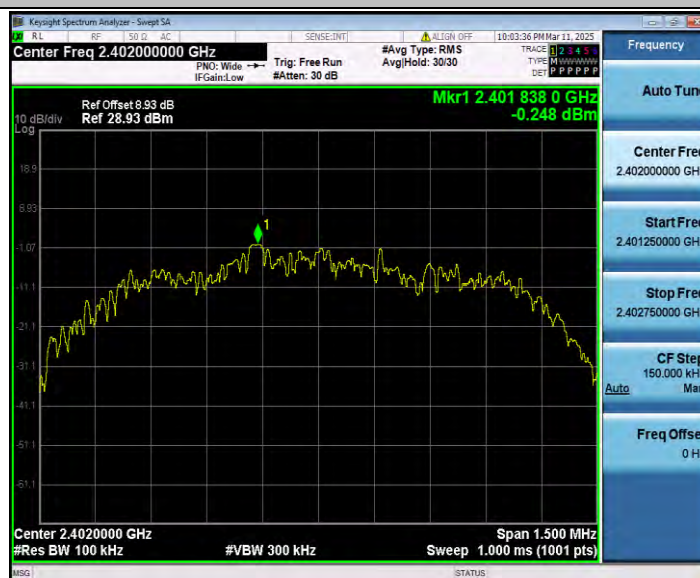
2DH1_Ant1_2480_30~1000



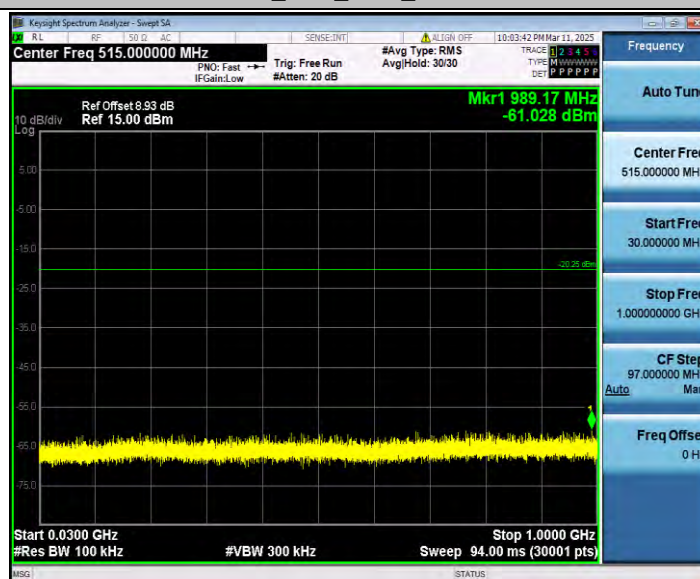
2DH1_Ant1_2480_1000~26500



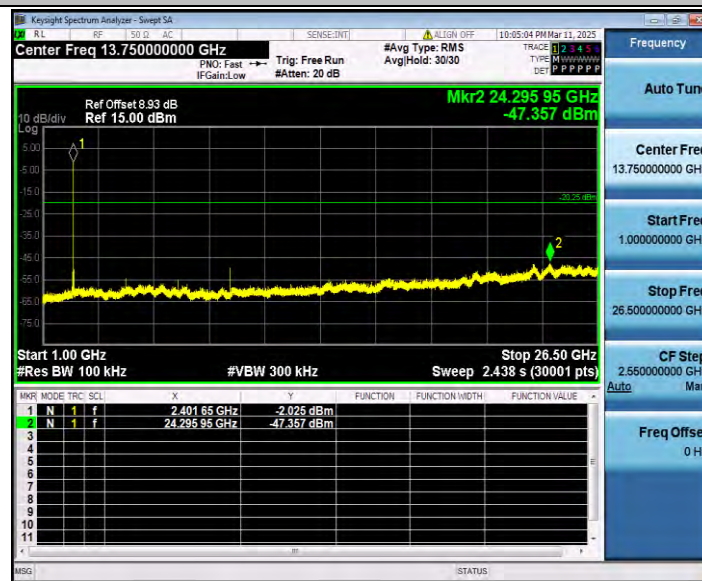
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



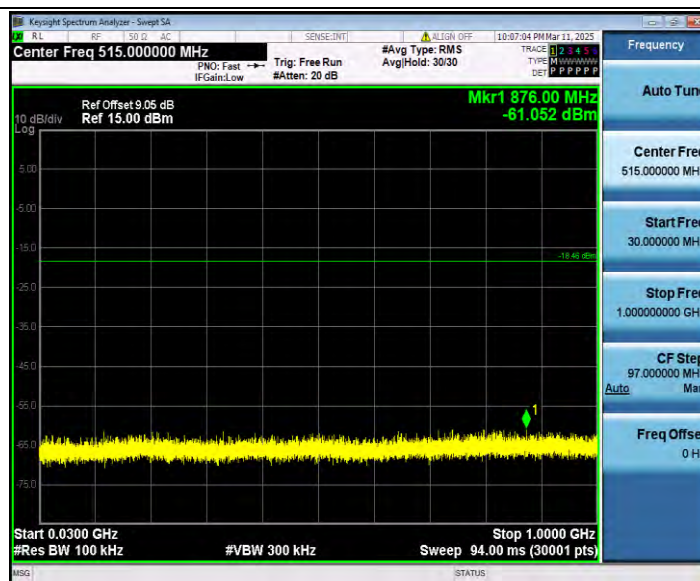
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000

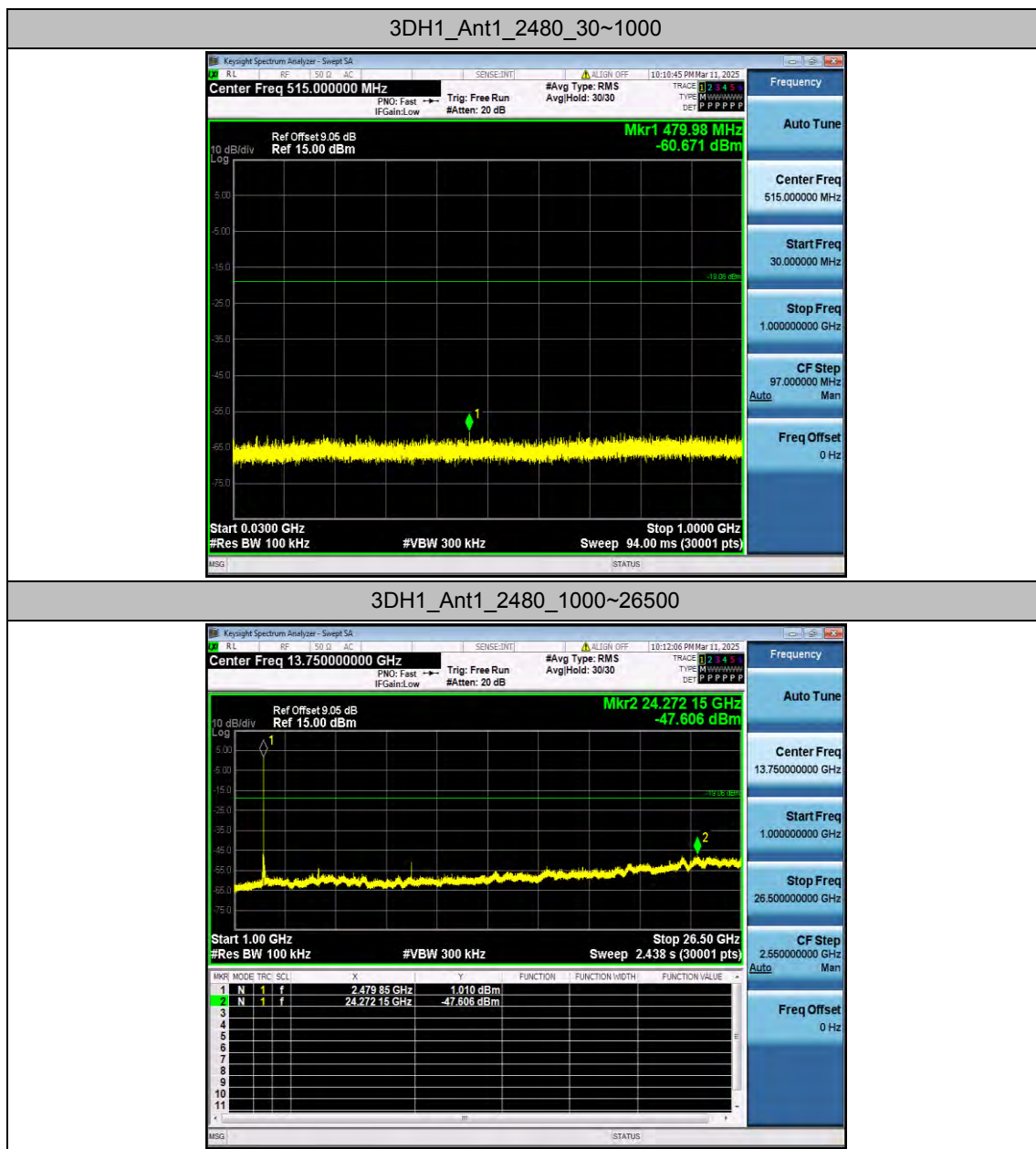


3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference





Appendix A.9: Emissions in Restricted Bands

Test Result

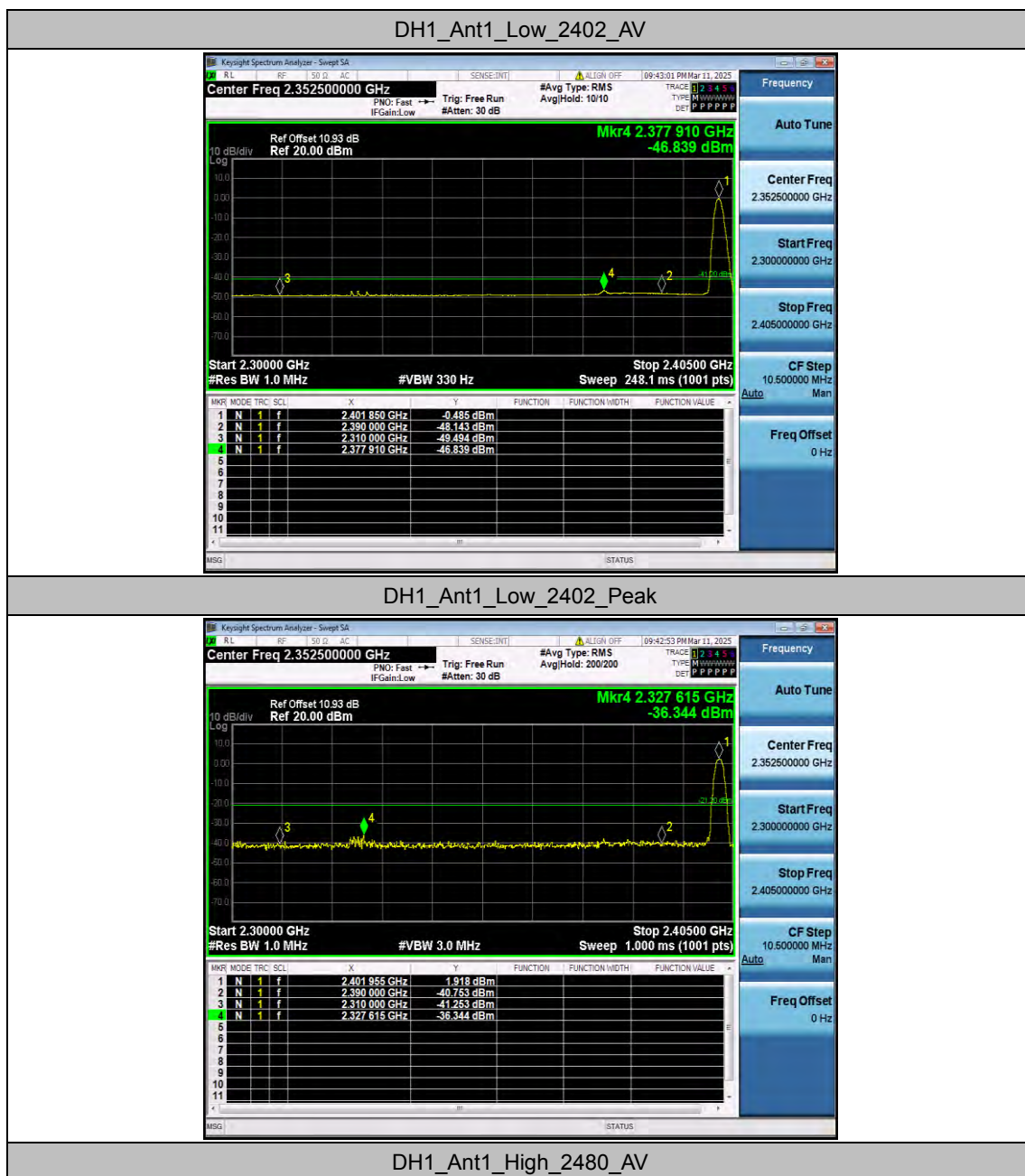
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.49	≤-41.20	45.71	≤54	PASS
				AV	2377.910	-46.84	≤-41.20	48.36	≤54	PASS
				AV	2390.000	-48.14	≤-41.20	47.06	≤54	PASS
				Peak	2310.000	-41.25	≤-21.20	53.95	≤74	PASS
				Peak	2327.615	-36.34	≤-21.20	58.86	≤74	PASS
				Peak	2390.000	-40.75	≤-21.20	54.45	≤74	PASS
		High	2480	AV	2483.500	-48.16	≤-41.20	47.04	≤54	PASS
				AV	2498.800	-47.39	≤-41.20	47.81	≤54	PASS
				AV	2500.000	-47.93	≤-41.20	47.27	≤54	PASS
				Peak	2483.500	-41.66	≤-21.20	53.54	≤74	PASS
				Peak	2498.320	-37.56	≤-21.20	57.64	≤74	PASS
				Peak	2500.000	-40.07	≤-21.20	55.13	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.38	≤-41.20	45.82	≤54	PASS
				AV	2378.120	-47.35	≤-41.20	47.85	≤54	PASS
				AV	2390.000	-48.24	≤-41.20	46.96	≤54	PASS
				Peak	2310.000	-42.13	≤-21.20	53.07	≤74	PASS
				Peak	2360.375	-38.3	≤-21.20	56.90	≤74	PASS
				Peak	2390.000	-39.27	≤-21.20	55.93	≤74	PASS
		High	2480	AV	2483.500	-47.95	≤-41.20	47.25	≤54	PASS
				AV	2499.200	-47.43	≤-41.20	47.77	≤54	PASS
				AV	2500.000	-47.89	≤-41.20	47.31	≤54	PASS
				Peak	2483.500	-41.91	≤-21.20	53.29	≤74	PASS
				Peak	2483.760	-35.61	≤-21.20	59.59	≤74	PASS
				Peak	2500.000	-39.78	≤-21.20	55.42	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.48	≤-41.20	45.72	≤54	PASS
				AV	2377.910	-47.11	≤-41.20	48.09	≤54	PASS
				AV	2390.000	-48.36	≤-41.20	46.84	≤54	PASS
				Peak	2310.000	-41.26	≤-21.20	53.94	≤74	PASS
				Peak	2354.600	-37.9	≤-21.20	57.30	≤74	PASS
				Peak	2390.000	-40.61	≤-21.20	54.59	≤74	PASS
		High	2480	AV	2483.500	-48.15	≤-41.20	47.05	≤54	PASS
				AV	2497.680	-47.59	≤-41.20	47.61	≤54	PASS
				AV	2500.000	-47.81	≤-41.20	47.39	≤54	PASS
				Peak	2483.500	-39.15	≤-21.20	56.05	≤74	PASS
				Peak	2492.320	-37.03	≤-21.20	58.17	≤74	PASS

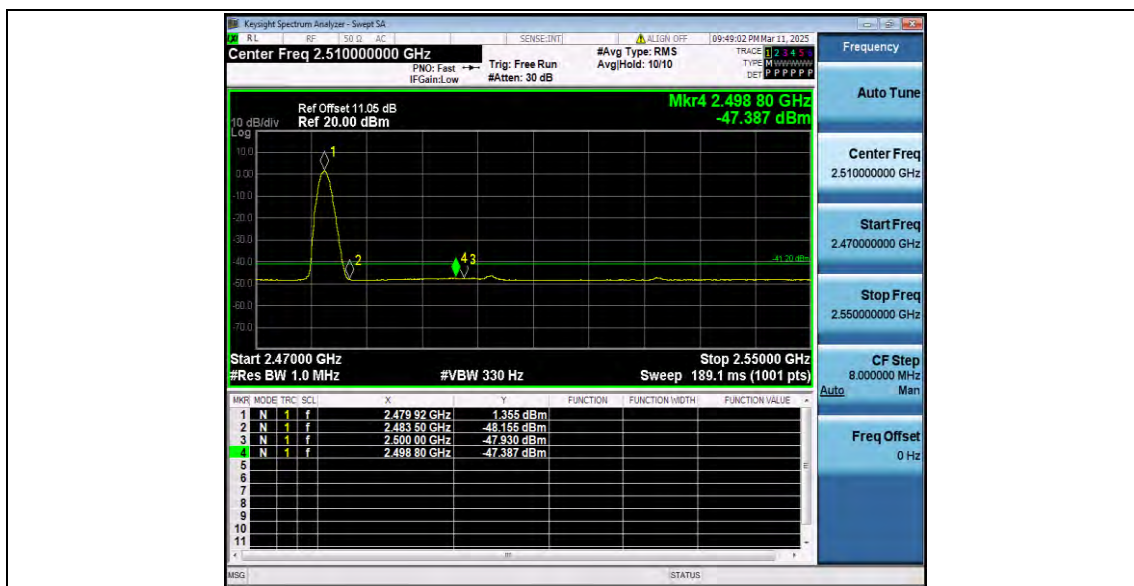
				Peak	2500.000	-40.13	≤-21.20	55.07	≤74	PASS
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Note:

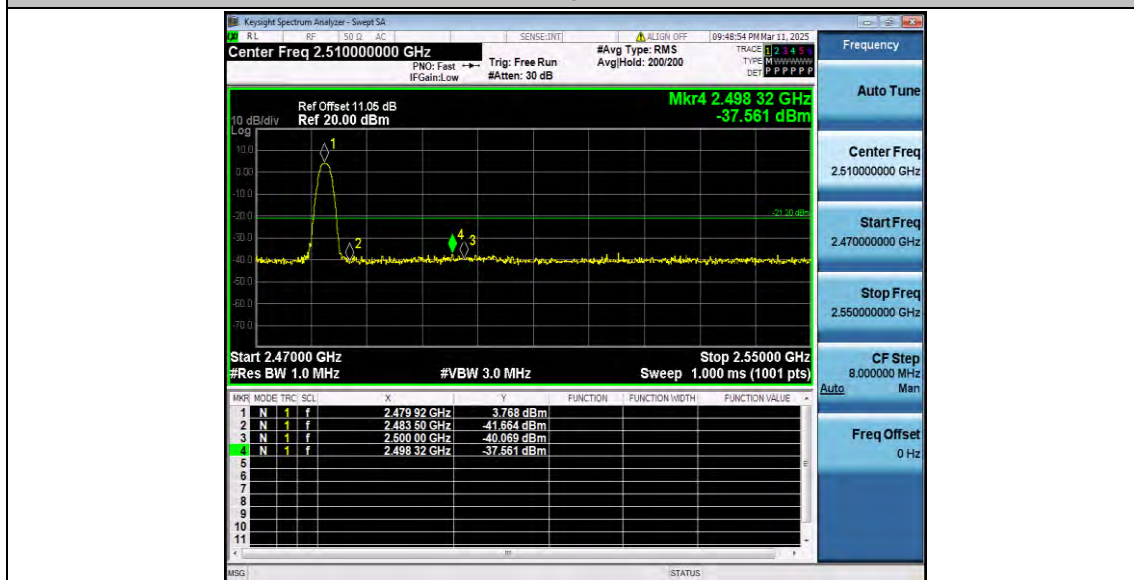
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

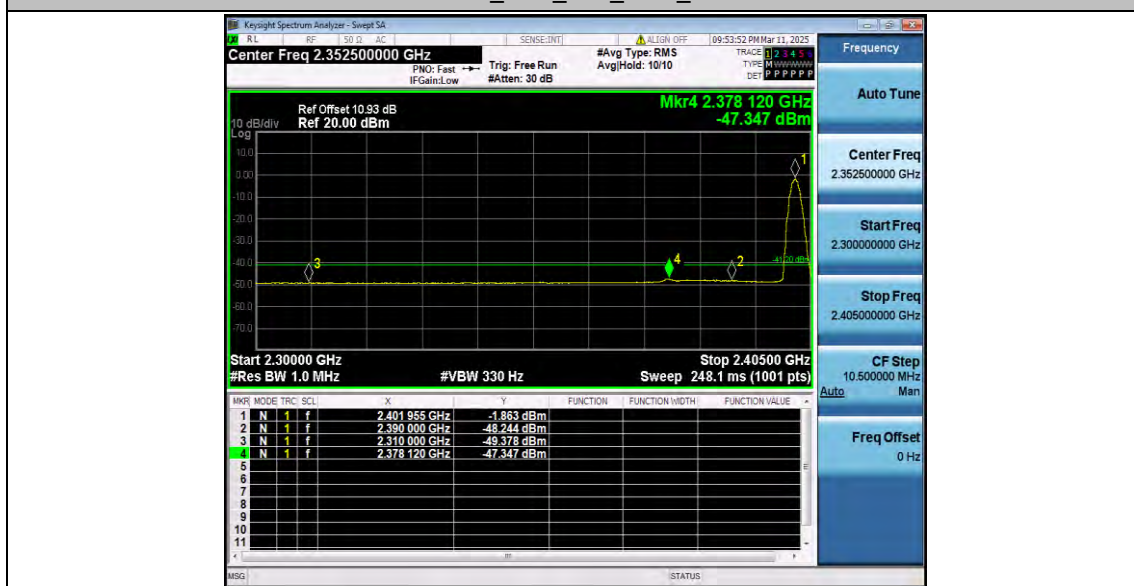




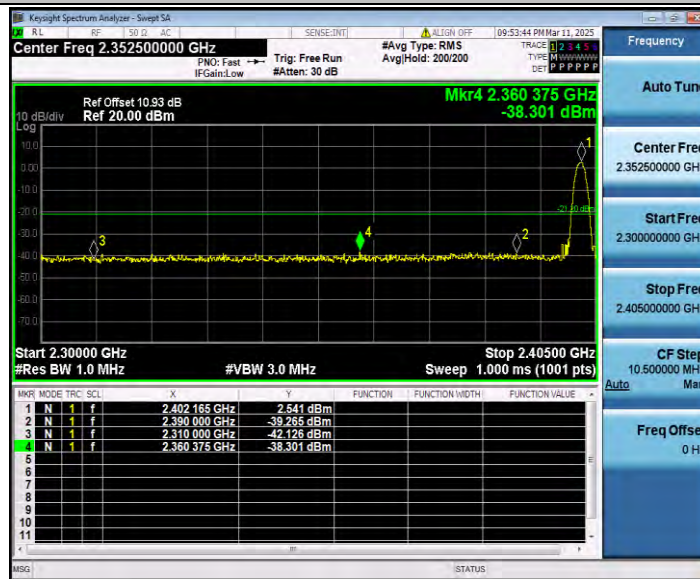
DH1_Ant1_High_2480_Peak



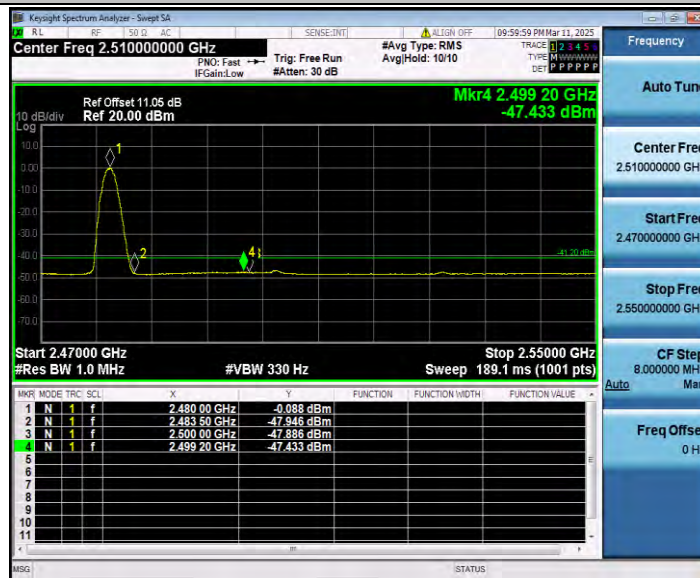
2DH1_Ant1_Low_2402_AV



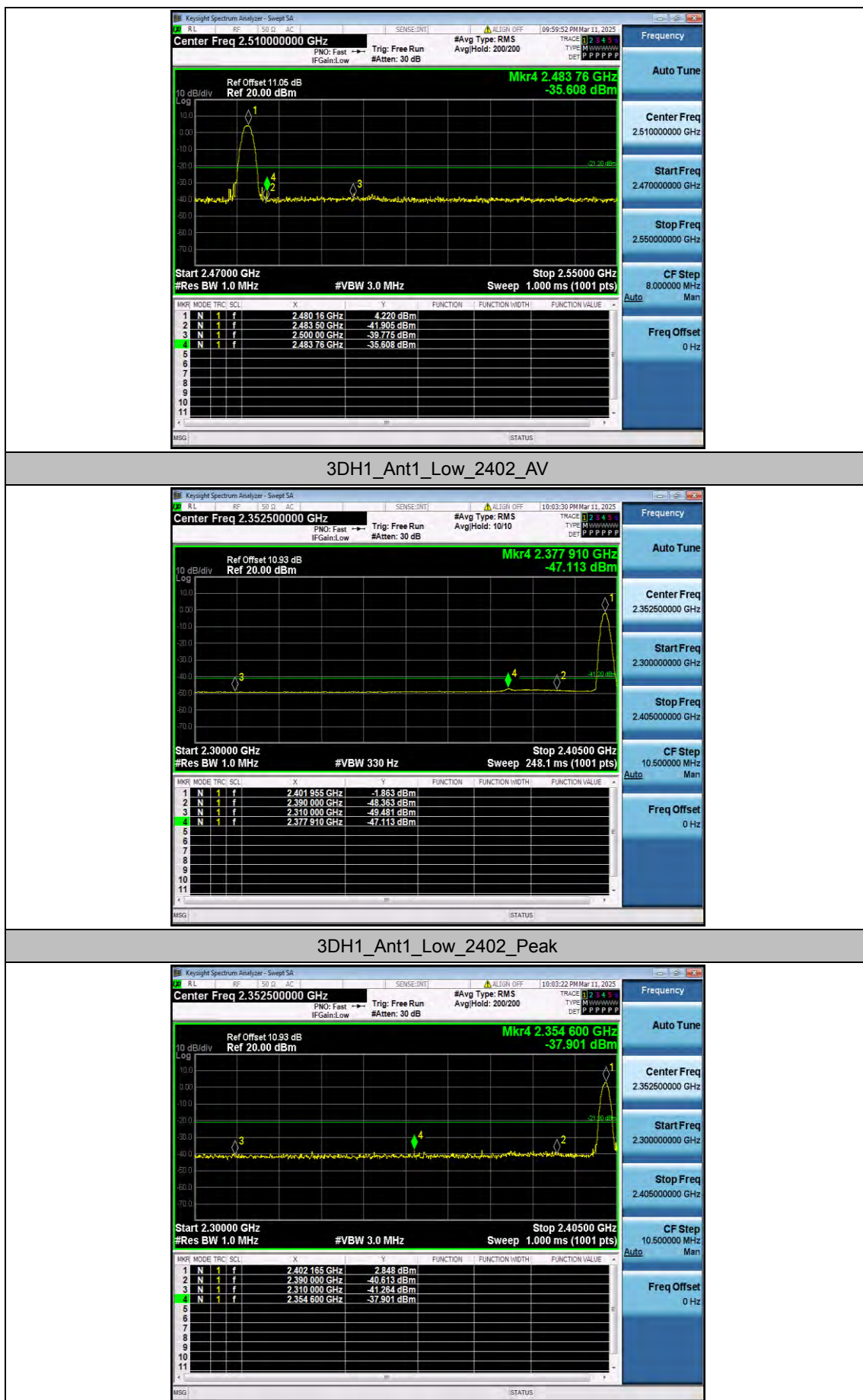
2DH1_Ant1_Low_2402_Peak



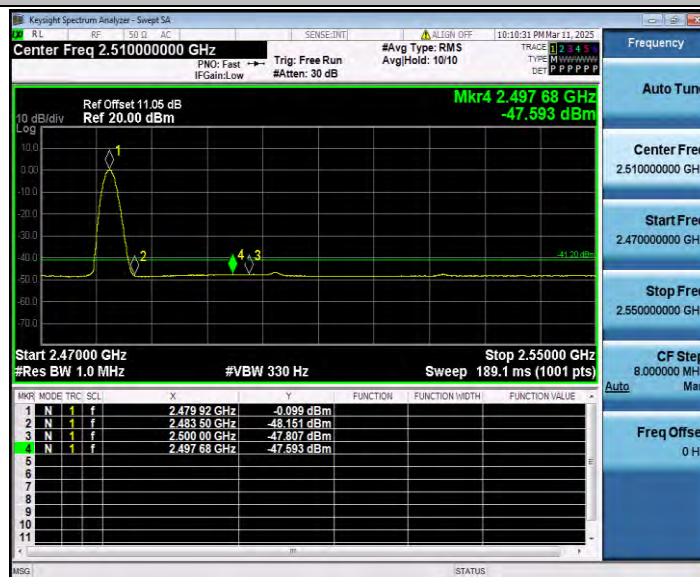
2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak



3DH1_Ant1_High_2480_AV



3DH1_Ant1_High_2480_Peak

