

Case No. : <u>GTS20260316016-1-11</u>
Ambient Condition: <u>24</u> °C, <u>46</u> %RH
According Standard: <u>■Part15C</u>
Test Date: <u>2026.7.10-2026.7.28</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	0.933	2401.508	2402.441	---	---
		2441	0.936	2440.508	2441.444	---	---
		2480	0.936	2479.508	2480.444	---	---
2DH1	Ant1	2402	1.305	2401.310	2402.615	---	---
		2441	1.317	2440.310	2441.627	---	---
		2480	1.311	2479.313	2480.624	---	---
3DH1	Ant1	2402	1.272	2401.337	2402.609	---	---
		2441	1.287	2440.331	2441.618	---	---
		2480	1.269	2479.343	2480.612	---	---

Test Graphs

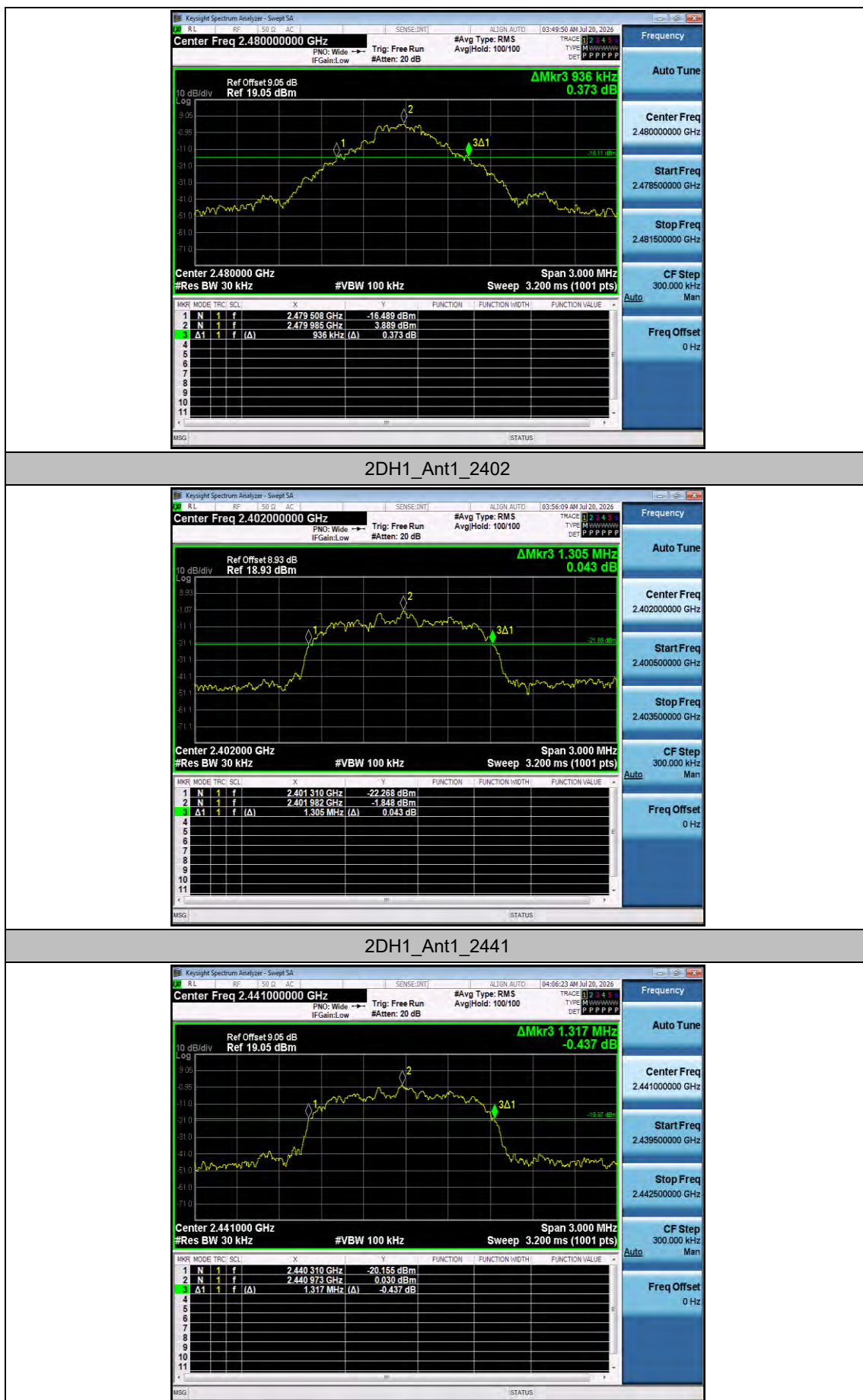
DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



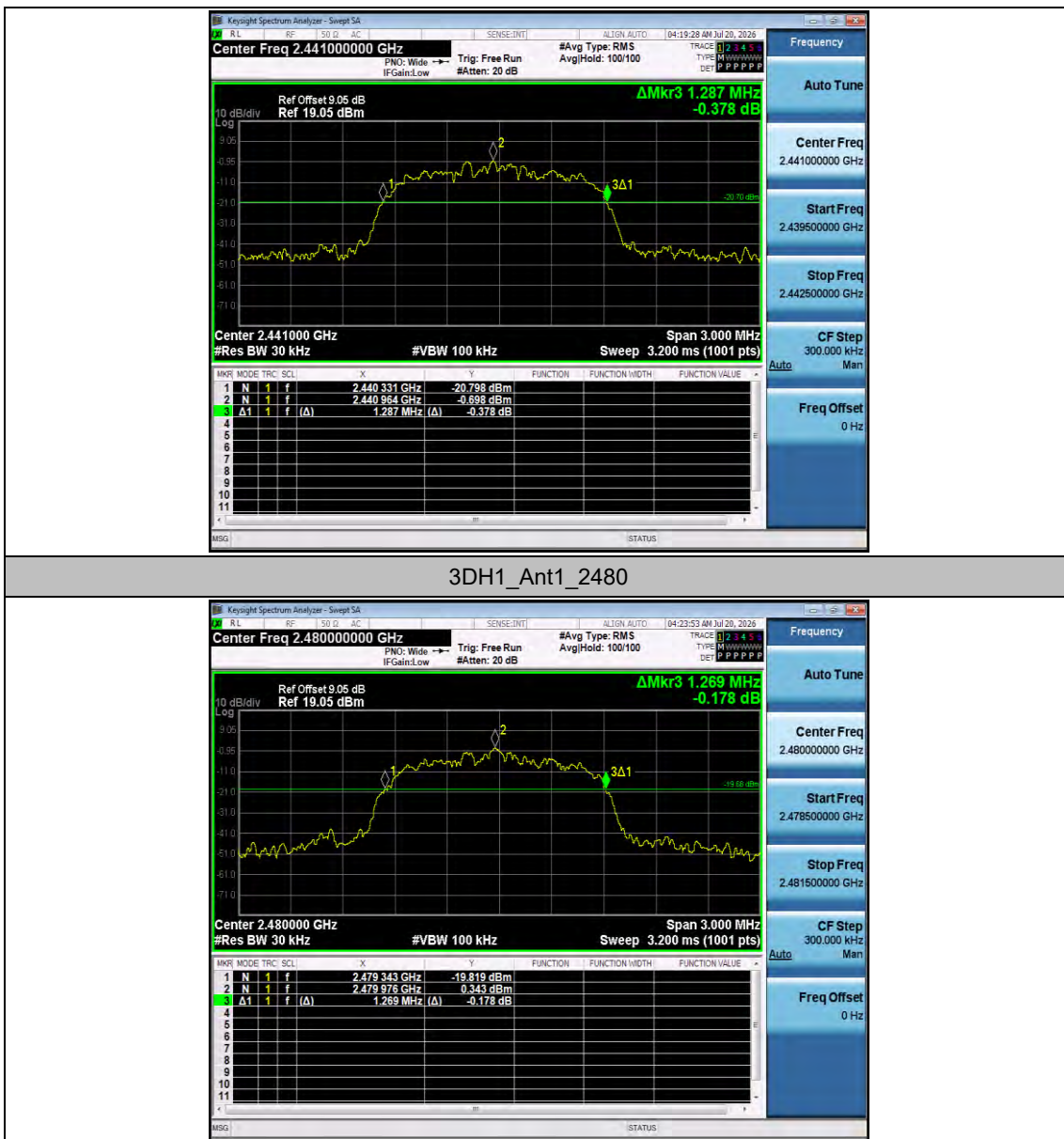
2DH1_Ant1_2480



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	0.83406	2401.5640	2402.3981	---	---
		2441	0.83350	2440.5604	2441.3939	---	---
		2480	0.83243	2479.5589	2480.3913	---	---
2DH1	Ant1	2402	1.1759	2401.3793	2402.5552	---	---
		2441	1.1809	2440.3783	2441.5592	---	---
		2480	1.1764	2479.3776	2480.5540	---	---
3DH1	Ant1	2402	1.1667	2401.4028	2402.5695	---	---
		2441	1.1643	2440.4037	2441.5680	---	---
		2480	1.1646	2479.4006	2480.5652	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



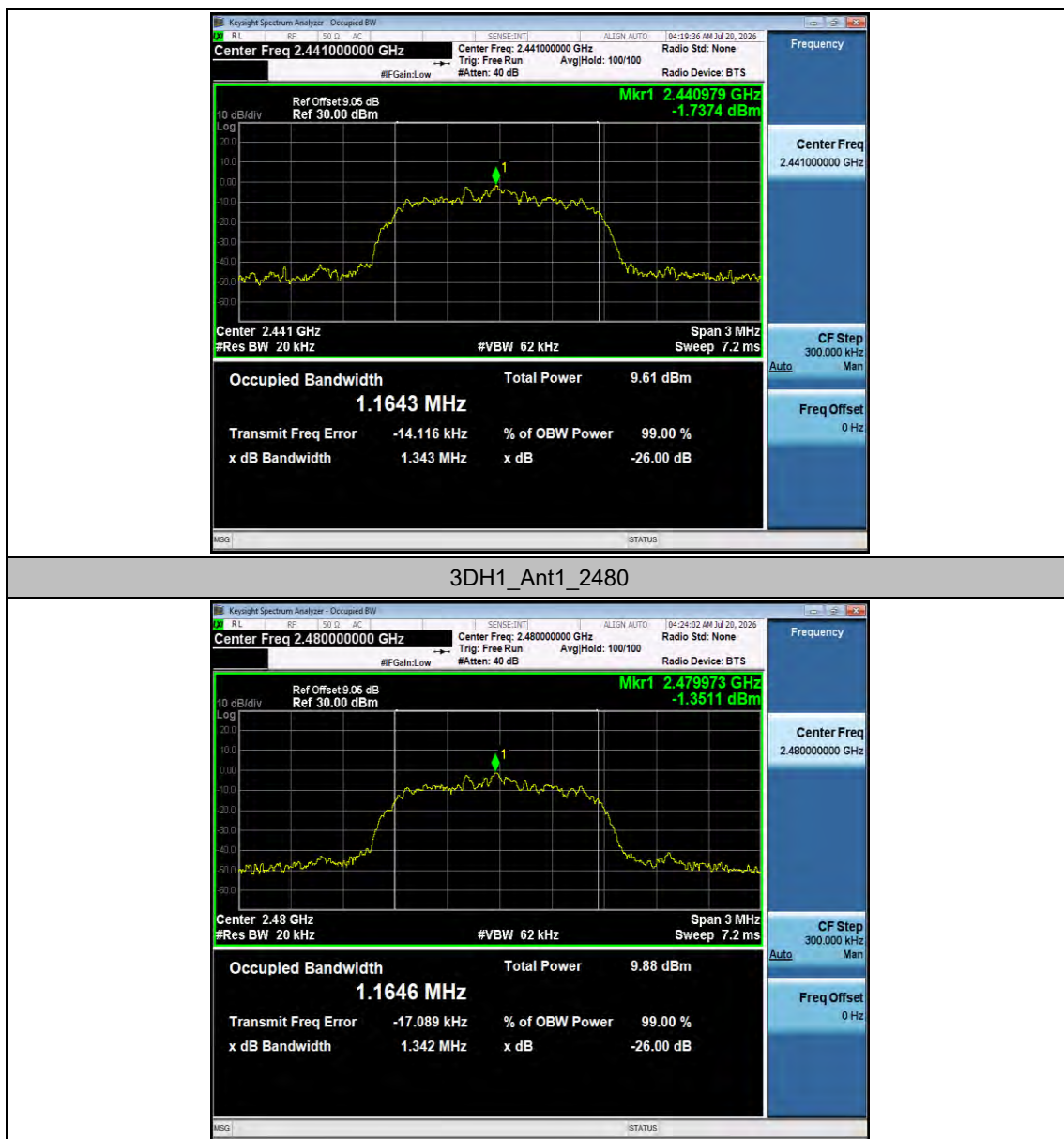
2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



AppendixA.3: Maximum conducted output power

Test Result Peak

DC 24V:

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	5.85	≤20.97	PASS
		2441	7.76	≤20.97	PASS
		2480	7.94	≤20.97	PASS
2DH1	Ant1	2402	5.12	≤20.97	PASS
		2441	7.11	≤20.97	PASS
		2480	7.35	≤20.97	PASS
3DH1	Ant1	2402	5.44	≤20.97	PASS
		2441	7.38	≤20.97	PASS
		2480	7.58	≤20.97	PASS

DC 55V(PoE++):

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	5.65	≤20.97	PASS
		2441	7.53	≤20.97	PASS
		2480	7.72	≤20.97	PASS
2DH1	Ant1	2402	4.99	≤20.97	PASS
		2441	6.87	≤20.97	PASS
		2480	6.95	≤20.97	PASS
3DH1	Ant1	2402	5.15	≤20.97	PASS
		2441	7.02	≤20.97	PASS
		2480	7.15	≤20.97	PASS

AppendixA.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.994	≥ 0.624	PASS
		Hop_2441	0.7	≥ 0.624	PASS
		Hop_2480	0.696	≥ 0.624	PASS
2DH1	Ant1	Hop_2402	0.984	≥ 0.878	PASS
		Hop_2441	0.978	≥ 0.878	PASS
		Hop_2480	1.002	≥ 0.878	PASS
3DH1	Ant1	Hop_2402	0.998	≥ 0.858	PASS
		Hop_2441	1.01	≥ 0.858	PASS
		Hop_2480	0.992	≥ 0.858	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

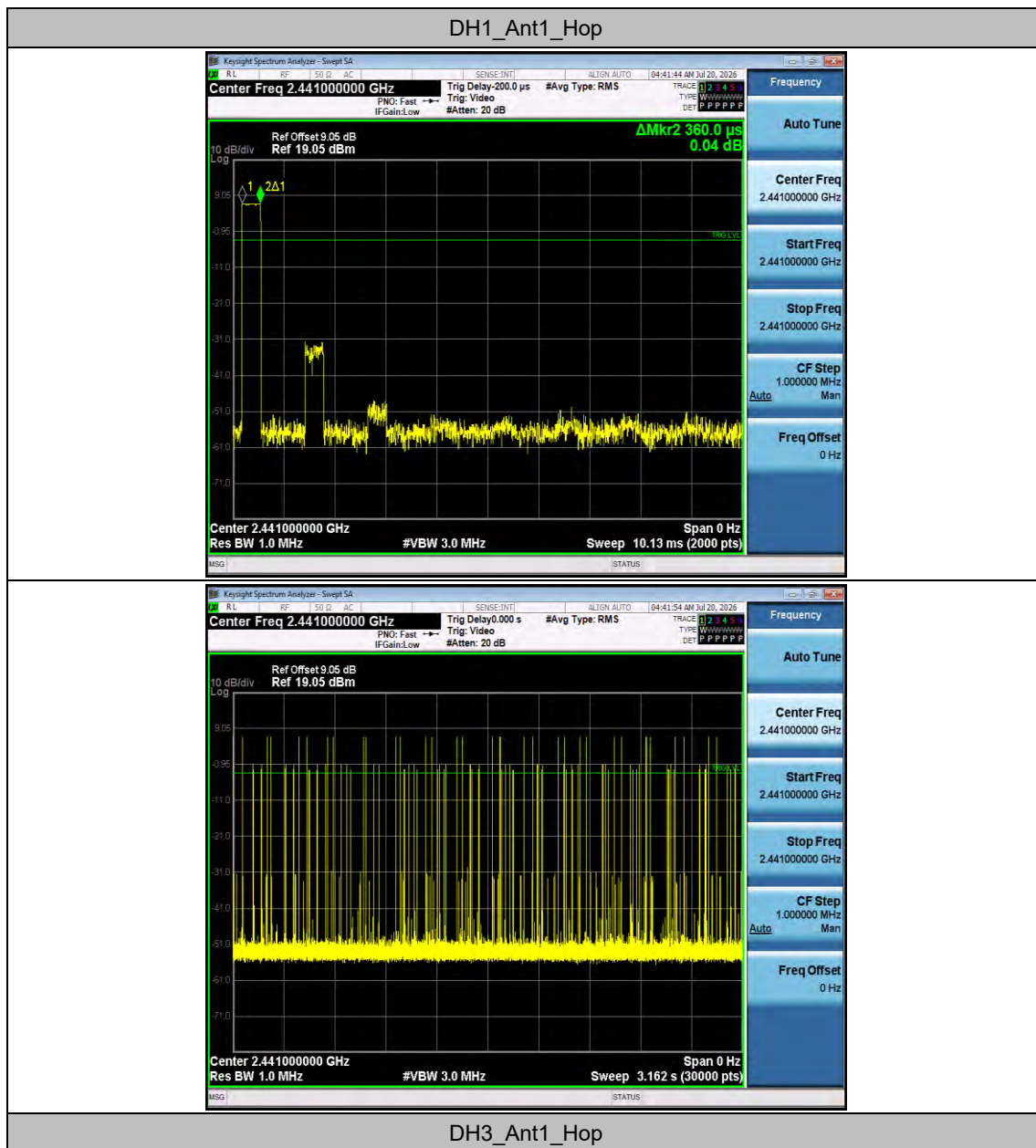


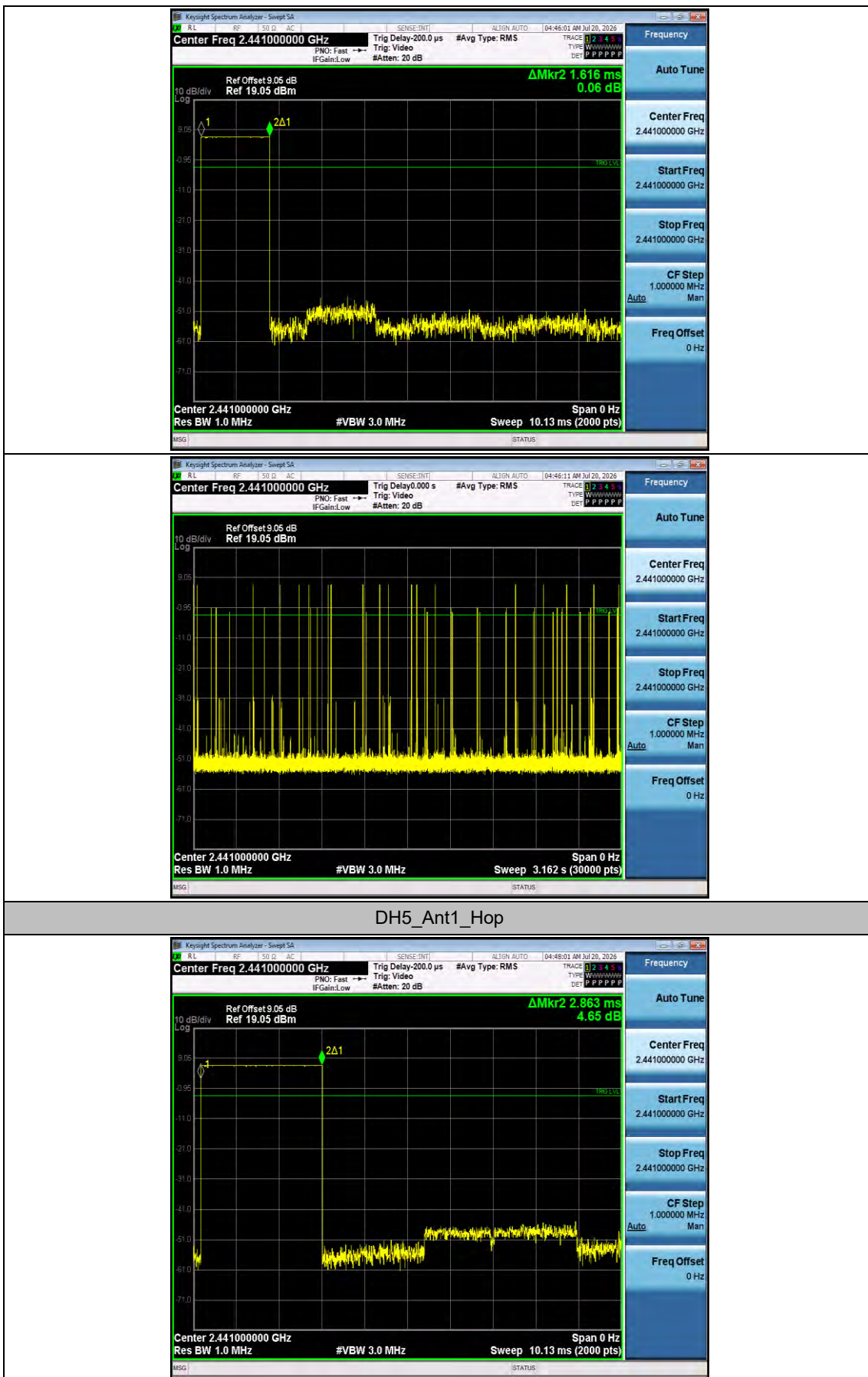
AppendixA.5: Time of occupancy

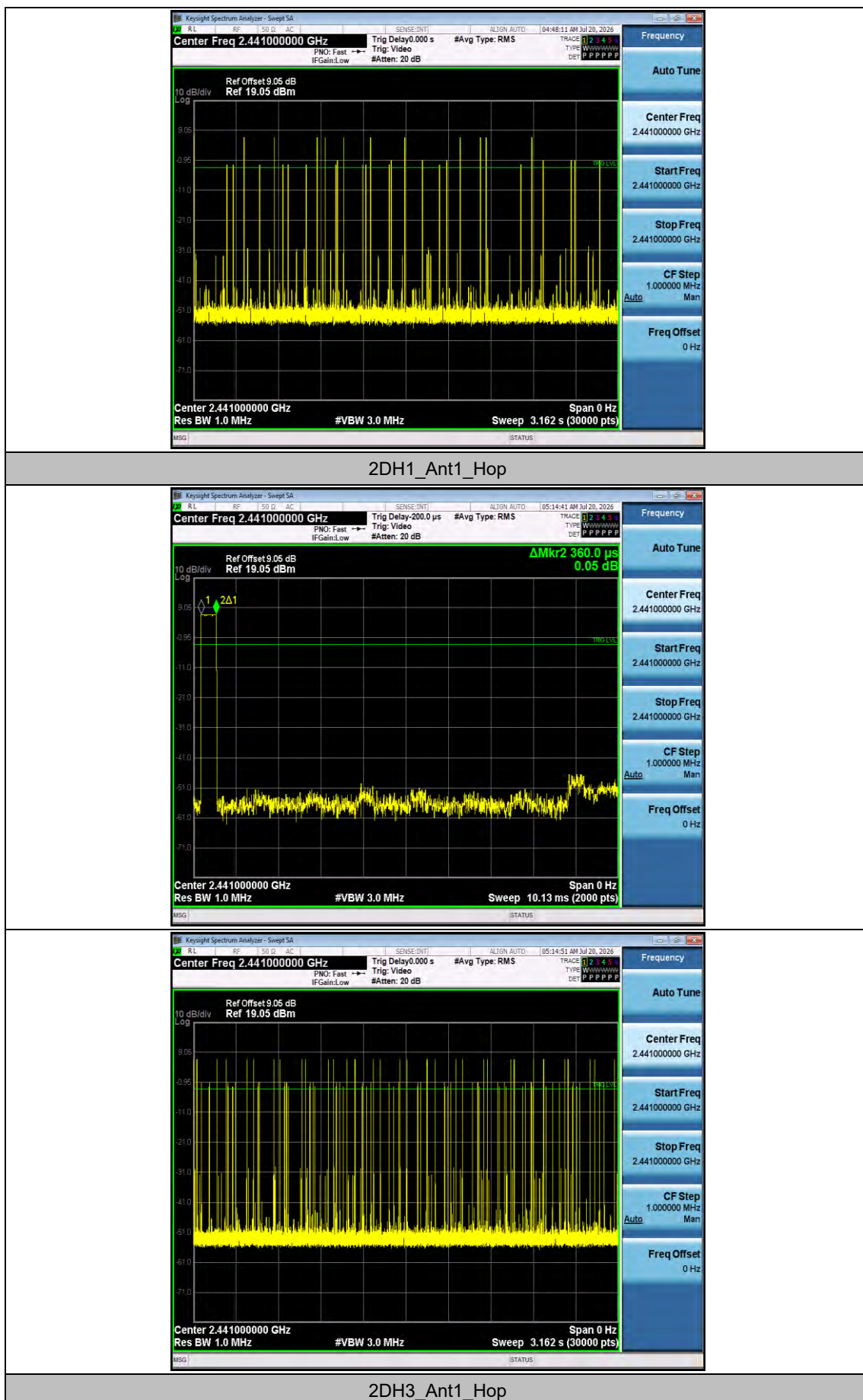
Test Result

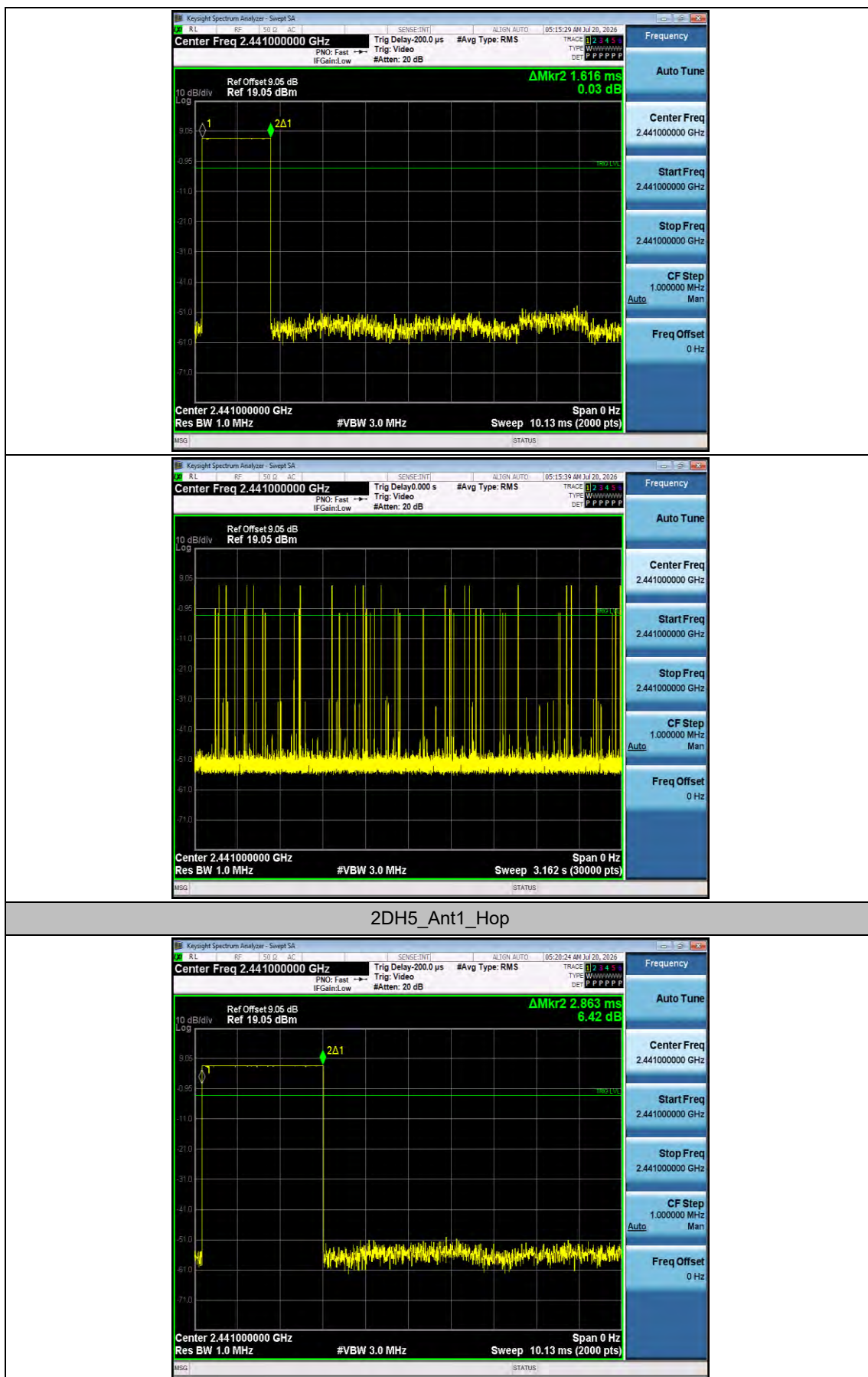
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.360	320	0.115	≤0.4	PASS
DH3	Ant1	Hop	1.616	190	0.307	≤0.4	PASS
DH5	Ant1	Hop	2.863	120	0.344	≤0.4	PASS
2DH1	Ant1	Hop	0.360	330	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.616	190	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.863	80	0.229	≤0.4	PASS
3DH1	Ant1	Hop	0.360	330	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.611	190	0.306	≤0.4	PASS
3DH5	Ant1	Hop	2.863	130	0.372	≤0.4	PASS

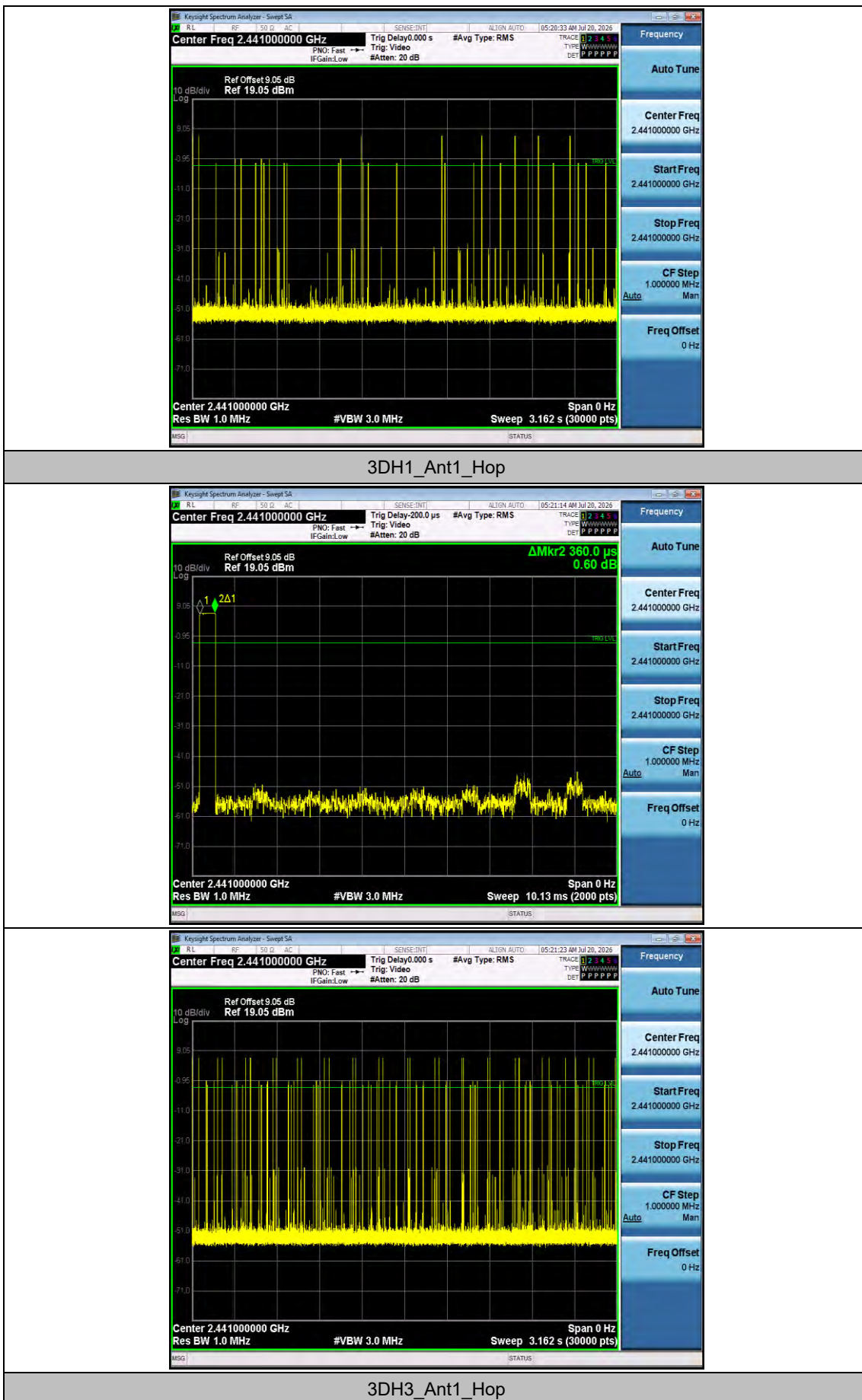
Test Graphs

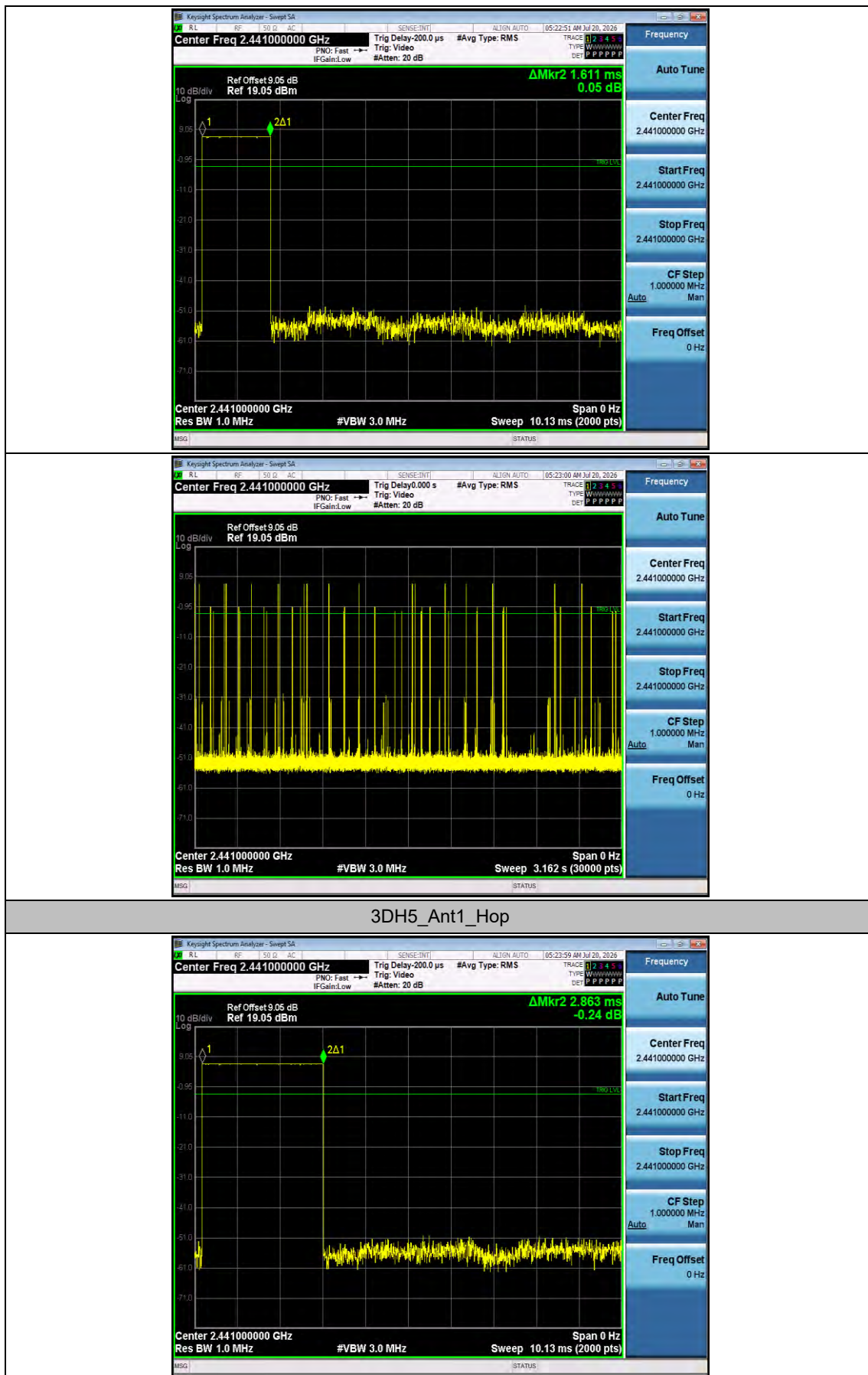












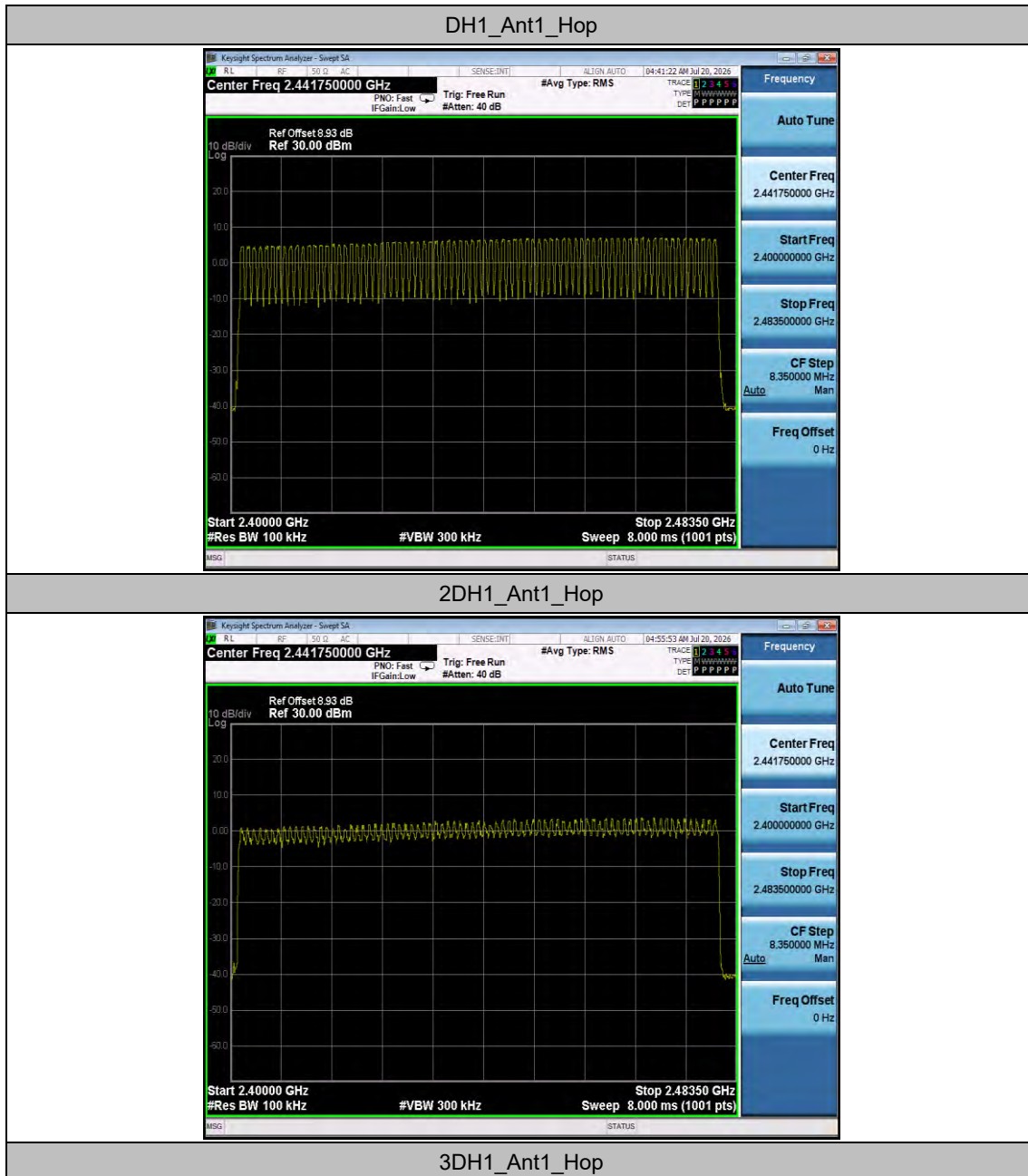


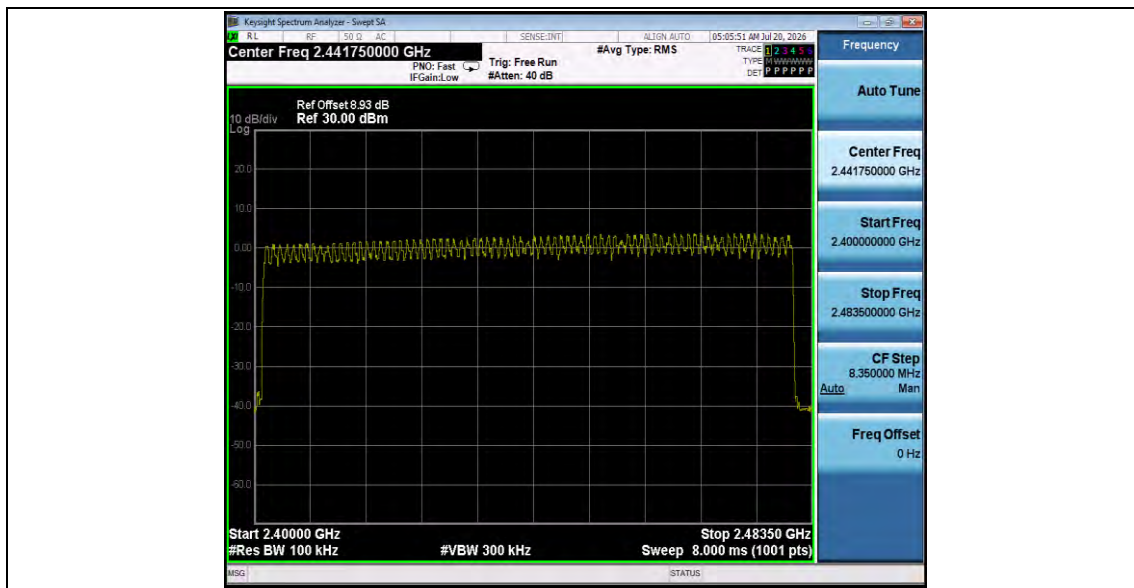
AppendixA.6: Number of hopping channels

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





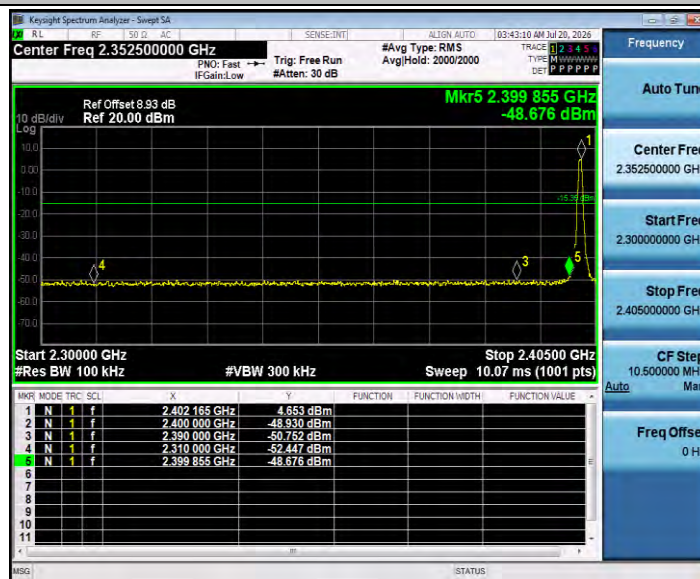
Appendix A.7: Band edge measurements

Test Result

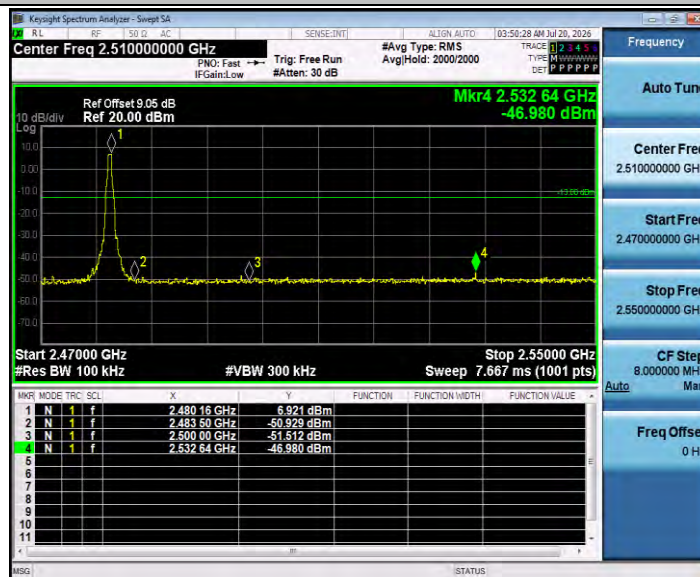
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	4.65	-48.68	≤ -15.35	PASS
		High	2480	6.92	-46.98	≤ -13.08	PASS
		Low	Hop_2402	4.44	-49.29	≤ -15.56	PASS
		High	Hop_2480	3.43	-48.24	≤ -16.57	PASS
2DH1	Ant1	Low	2402	0.88	-50.06	≤ -19.12	PASS
		High	2480	3.38	-48.5	≤ -16.62	PASS
		Low	Hop_2402	0.80	-49.48	≤ -19.2	PASS
		High	Hop_2480	3.58	-48.49	≤ -16.42	PASS
3DH1	Ant1	Low	2402	0.95	-49.23	≤ -19.06	PASS
		High	2480	3.49	-47.84	≤ -16.51	PASS
		Low	Hop_2402	-0.46	-48.94	≤ -20.46	PASS
		High	Hop_2480	3.53	-48.12	≤ -16.47	PASS

Test Graphs

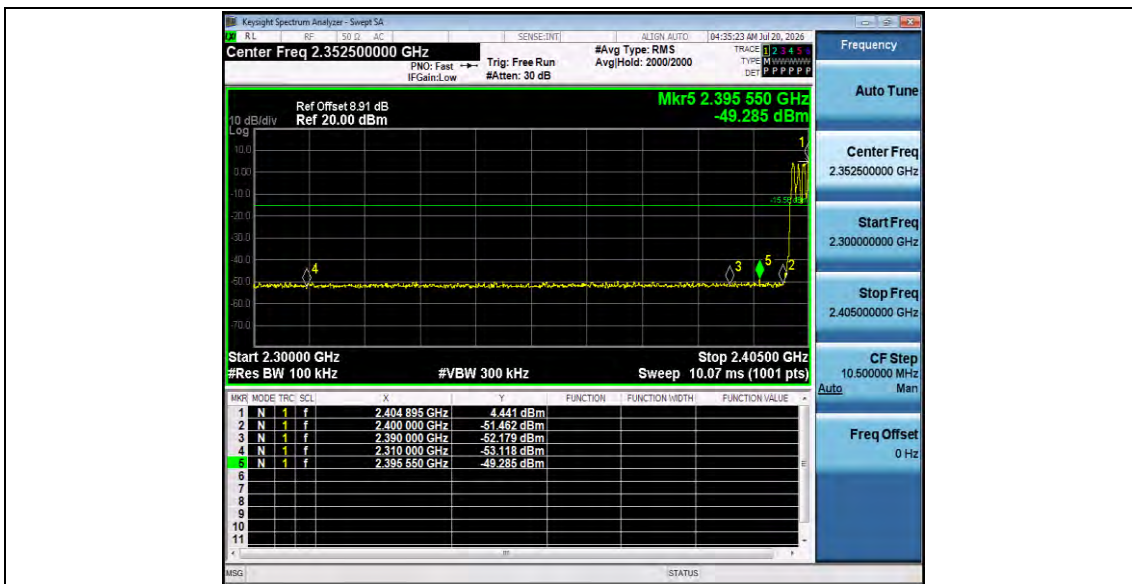
DH1_Ant1_Low_2402



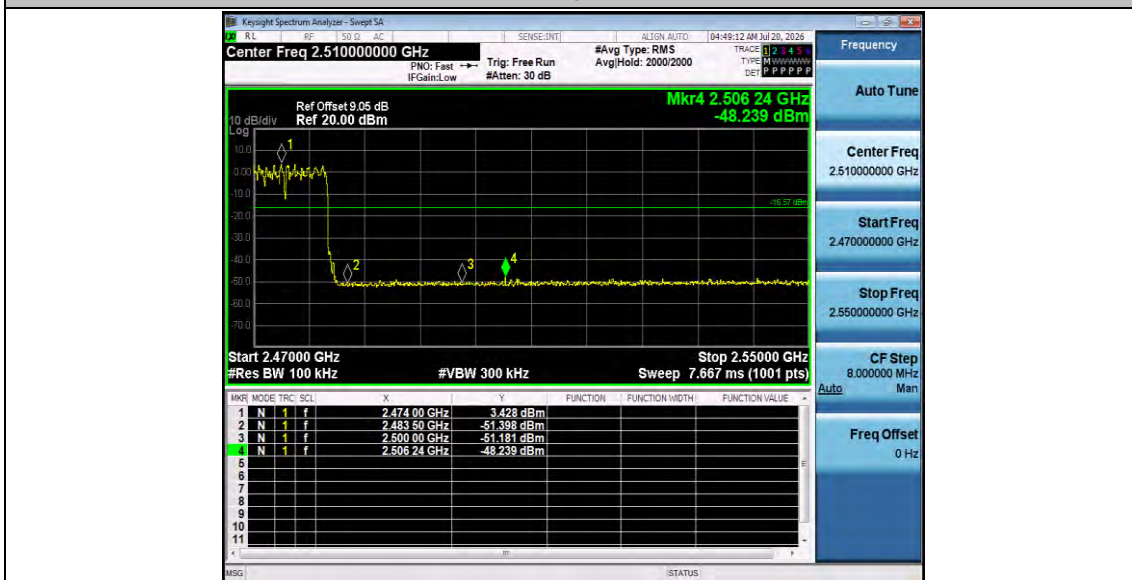
DH1_Ant1_High_2480



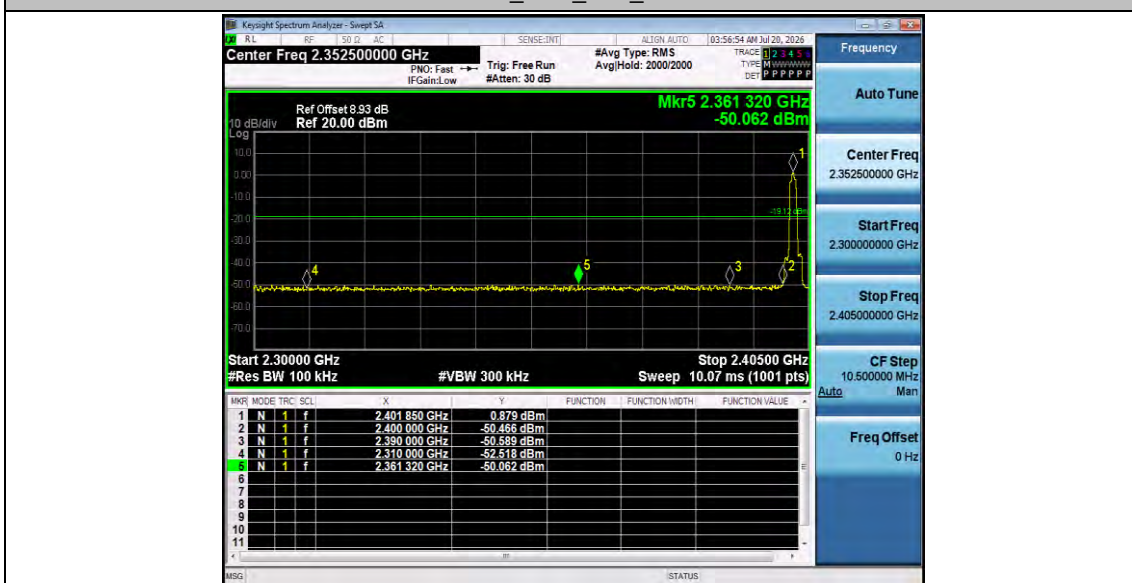
DH1_Ant1_Low_Hop_2402



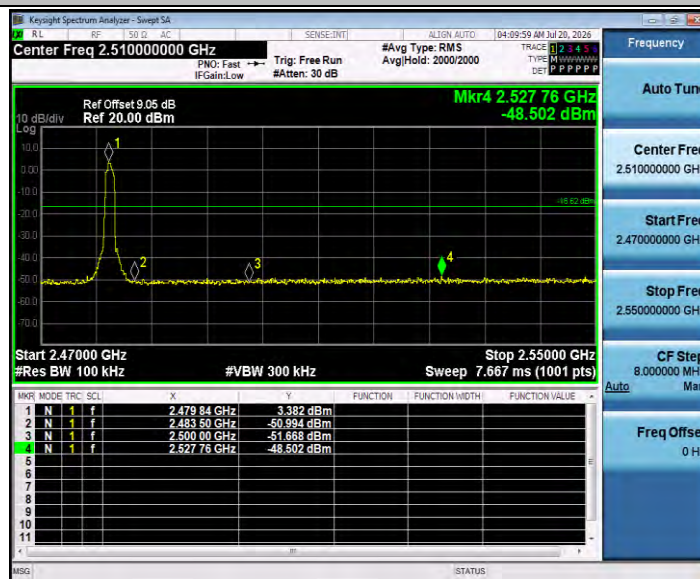
DH1_Ant1_High_Hop_2480



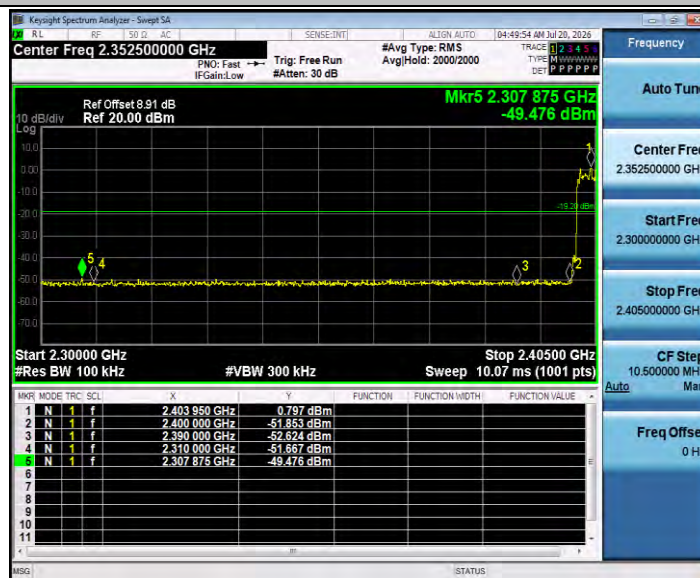
2DH1_Ant1_Low_2402



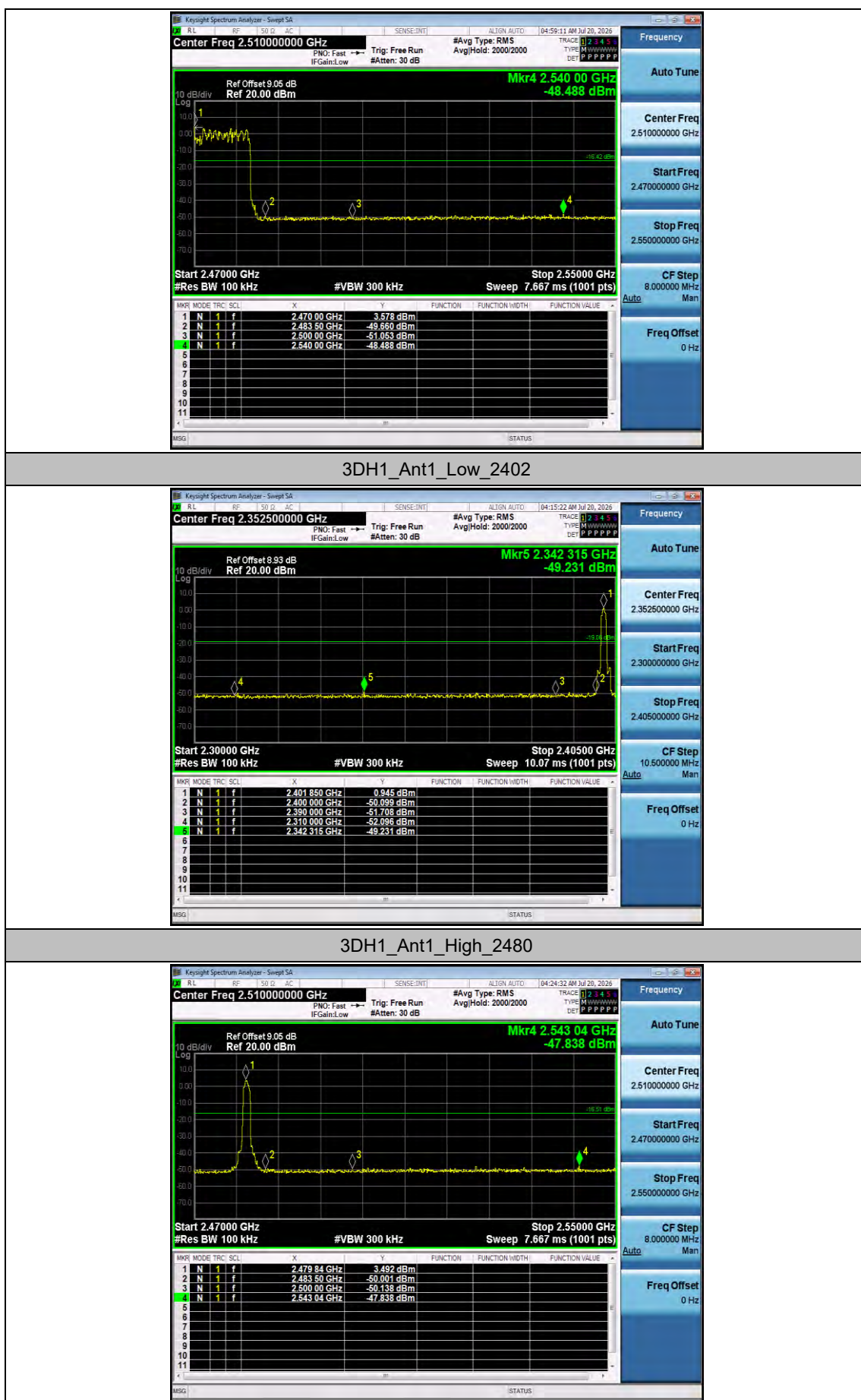
2DH1_Ant1_High_2480



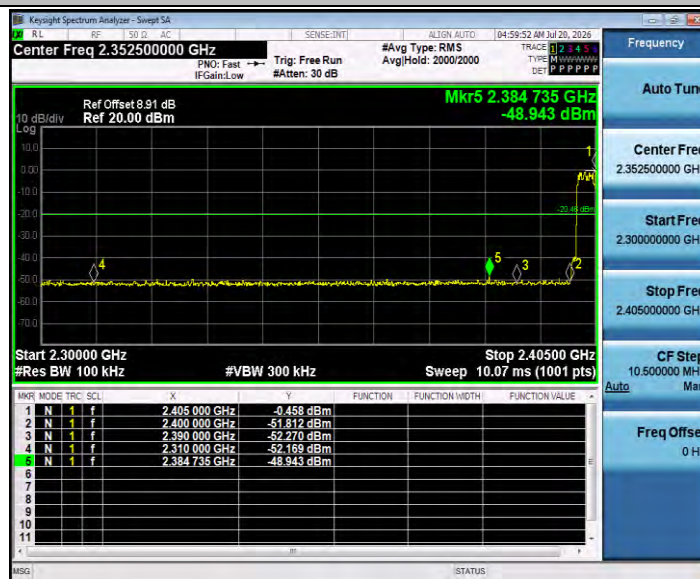
2DH1_Ant1_Low_Hop_2402



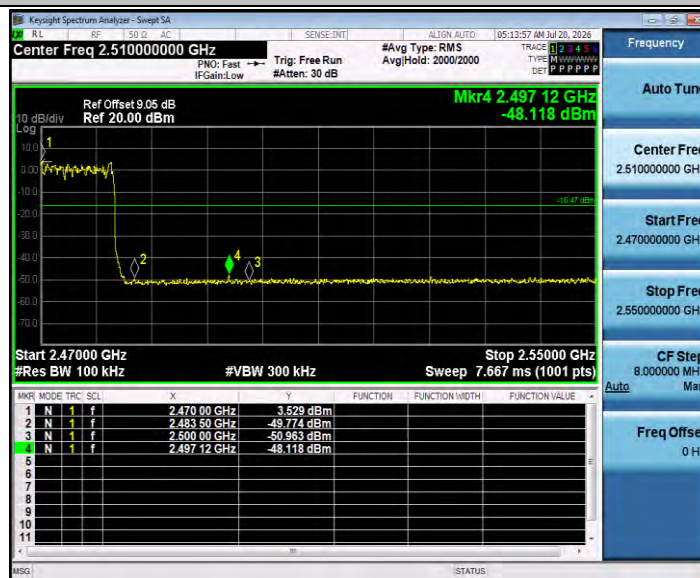
2DH1_Ant1_High_Hop_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

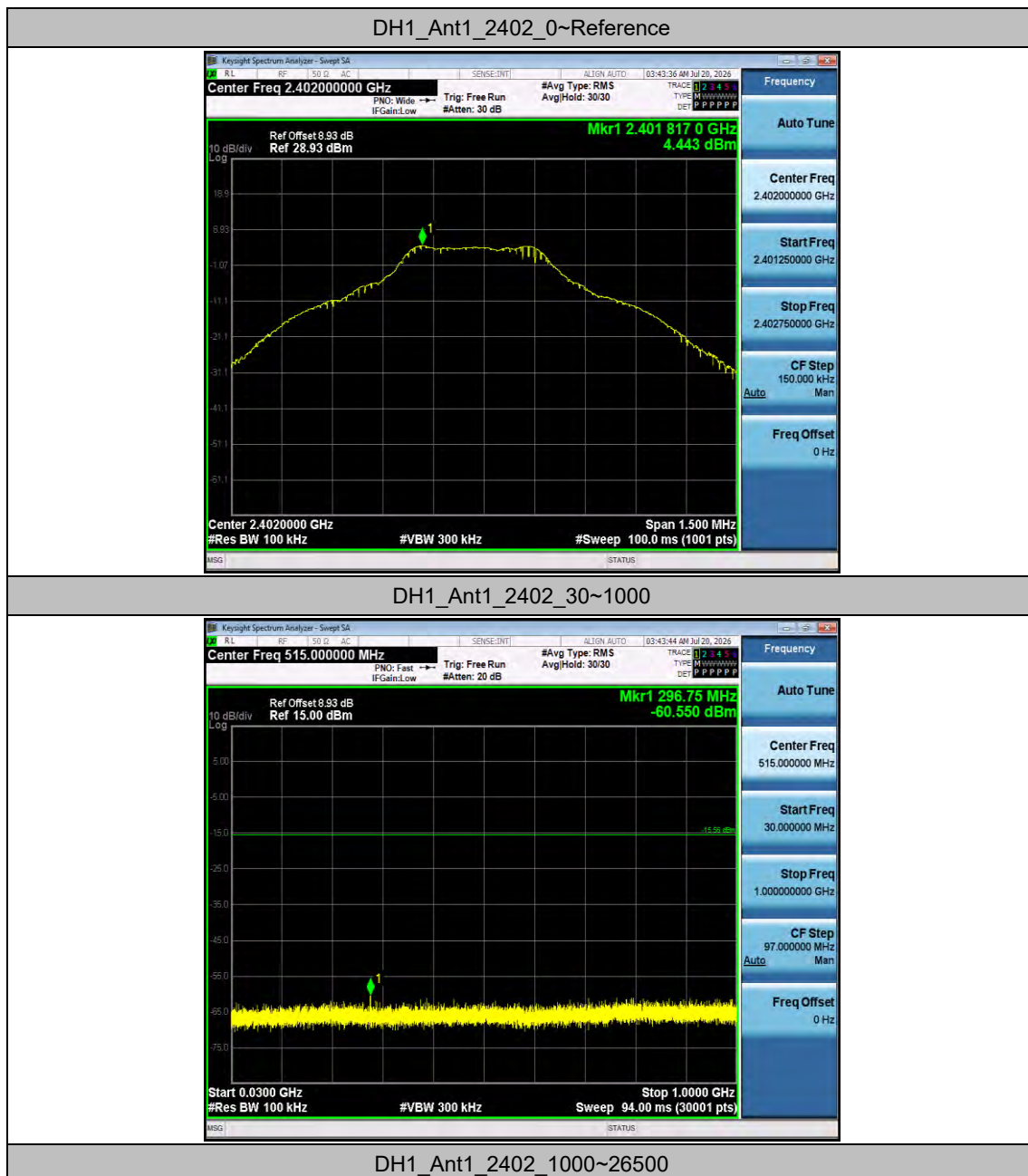


Appendix A.8: Conducted Spurious Emission

Test Result

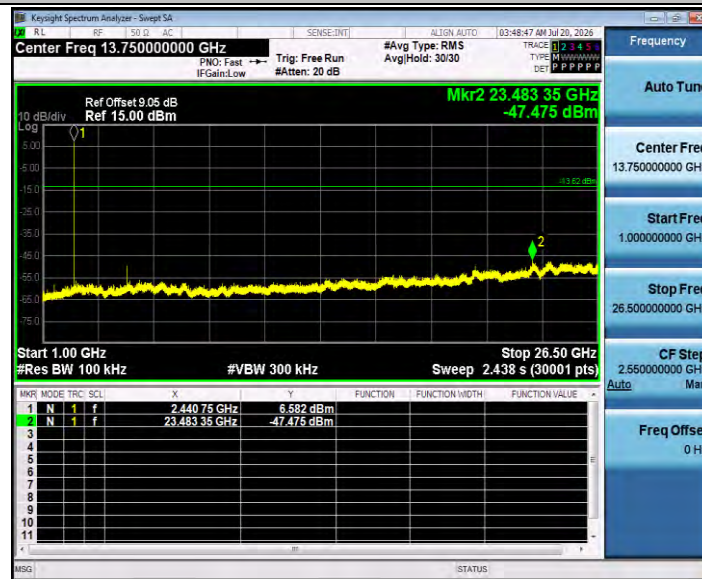
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	4.44	4.44	---	PASS
			30~1000	4.44	-60.55	≤ -15.56	PASS
			1000~26500	4.44	-46.64	≤ -15.56	PASS
		2441	Reference	6.38	6.38	---	PASS
			30~1000	6.38	-59.96	≤ -13.62	PASS
			1000~26500	6.38	-47.48	≤ -13.62	PASS
		2480	Reference	6.66	6.66	---	PASS
			30~1000	6.66	-60.12	≤ -13.34	PASS
			1000~26500	6.66	-47.85	≤ -13.34	PASS
2DH1	Ant1	2402	Reference	0.76	0.76	---	PASS
			30~1000	0.76	-59.1	≤ -19.24	PASS
			1000~26500	0.76	-48.21	≤ -19.24	PASS
		2441	Reference	2.84	2.84	---	PASS
			30~1000	2.84	-59.76	≤ -17.16	PASS
			1000~26500	2.84	-47.13	≤ -17.16	PASS
		2480	Reference	3.19	3.19	---	PASS
			30~1000	3.19	-60.27	≤ -16.81	PASS
			1000~26500	3.19	-47.4	≤ -16.81	PASS
3DH1	Ant1	2402	Reference	0.90	0.90	---	PASS
			30~1000	0.90	-60.12	≤ -19.1	PASS
			1000~26500	0.90	-47.41	≤ -19.1	PASS
		2441	Reference	3.00	3.00	---	PASS
			30~1000	3.00	-60.31	≤ -17	PASS
			1000~26500	3.00	-47.96	≤ -17	PASS
		2480	Reference	3.38	3.38	---	PASS
			30~1000	3.38	-60.33	≤ -16.62	PASS
			1000~26500	3.38	-47.09	≤ -16.62	PASS

Test Graphs





DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000

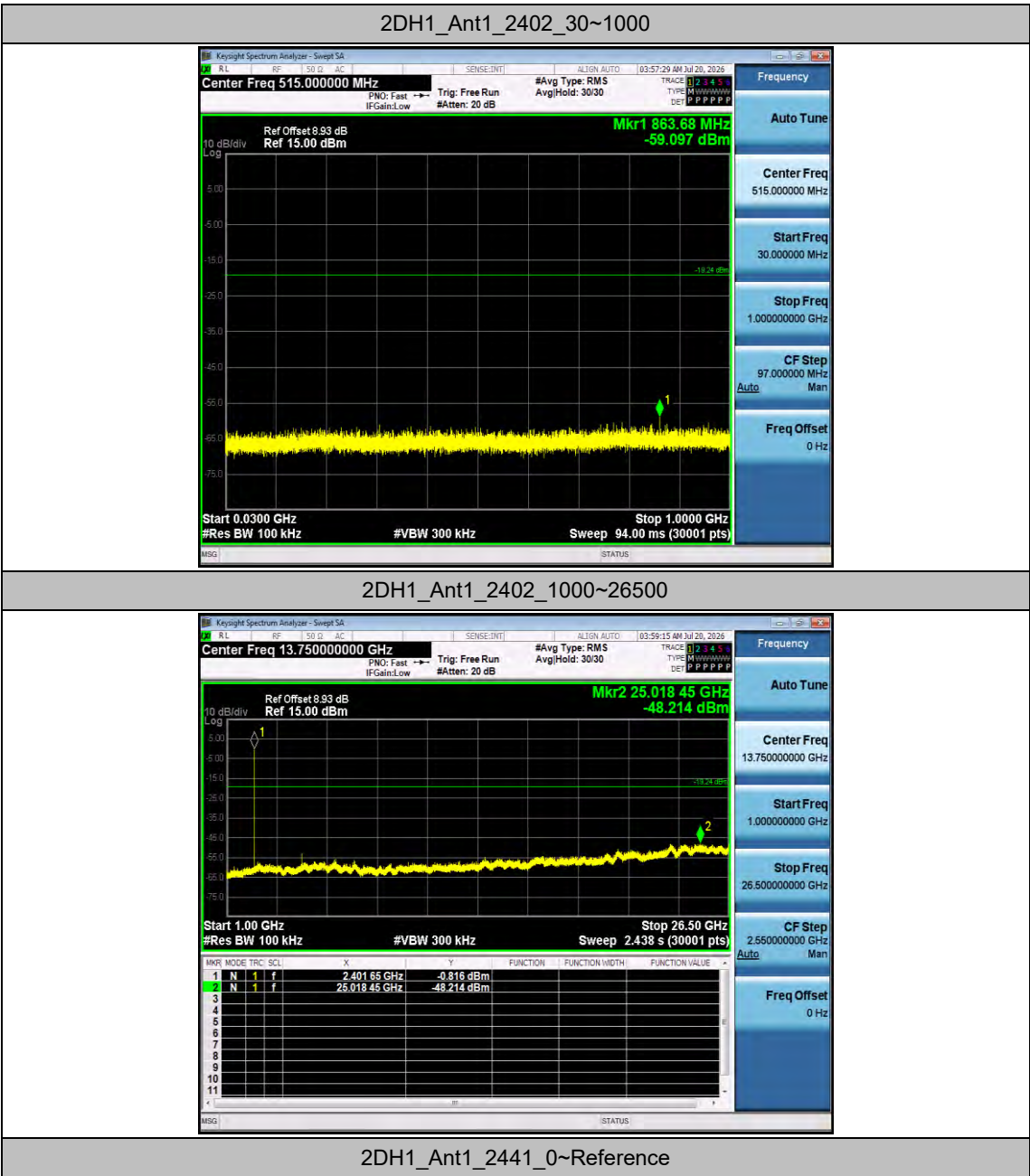


DH1_Ant1_2480_1000~26500



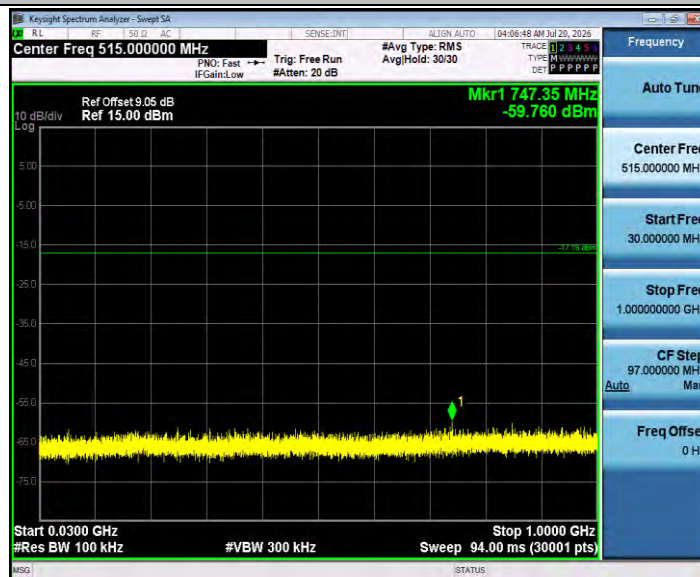
2DH1_Ant1_2402_0~Reference







2DH1_Ant1_2441_30~1000



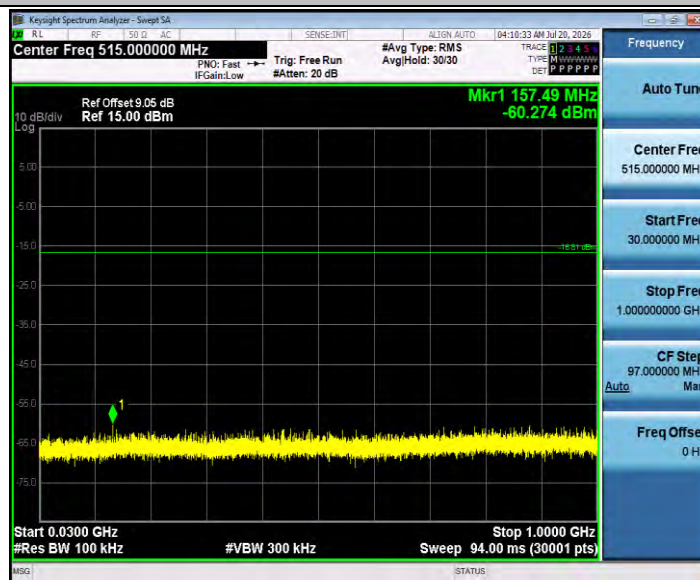
2DH1_Ant1_2441_1000~26500



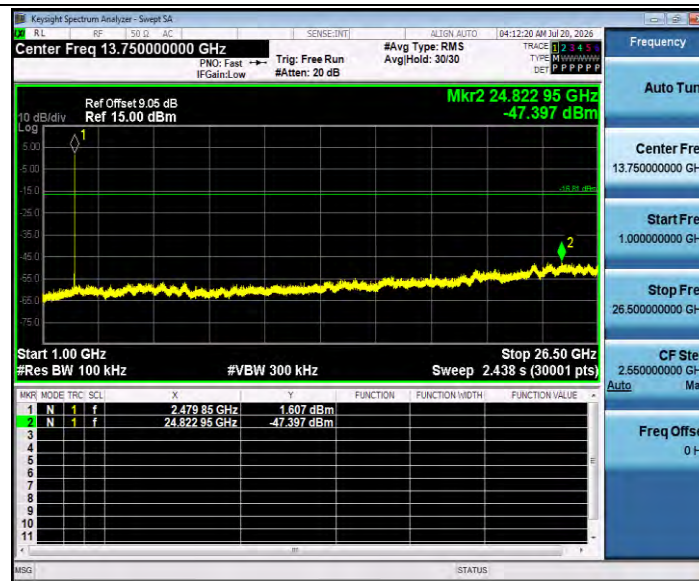
2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



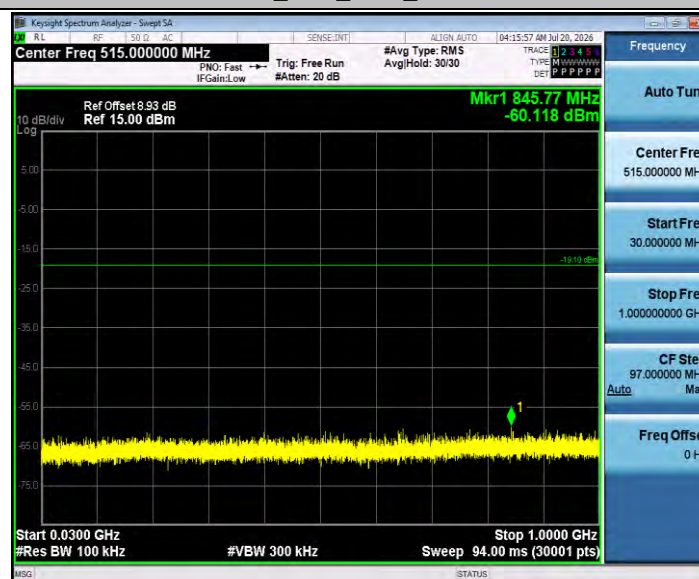
2DH1_Ant1_2480_1000~26500



3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



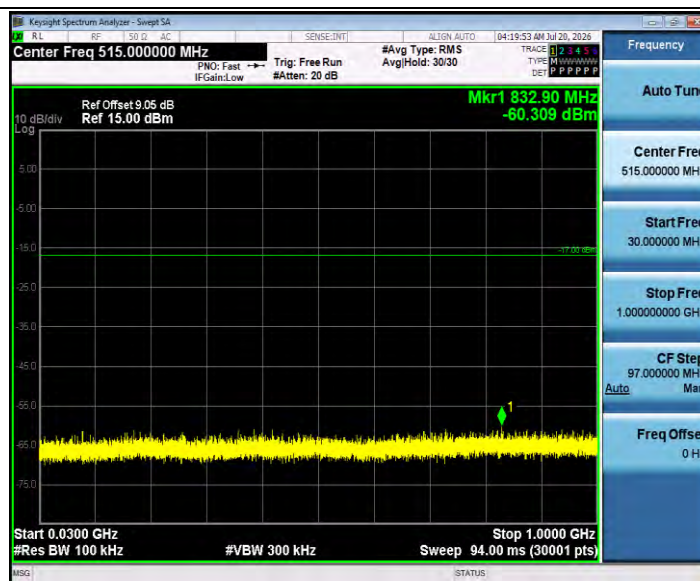
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000

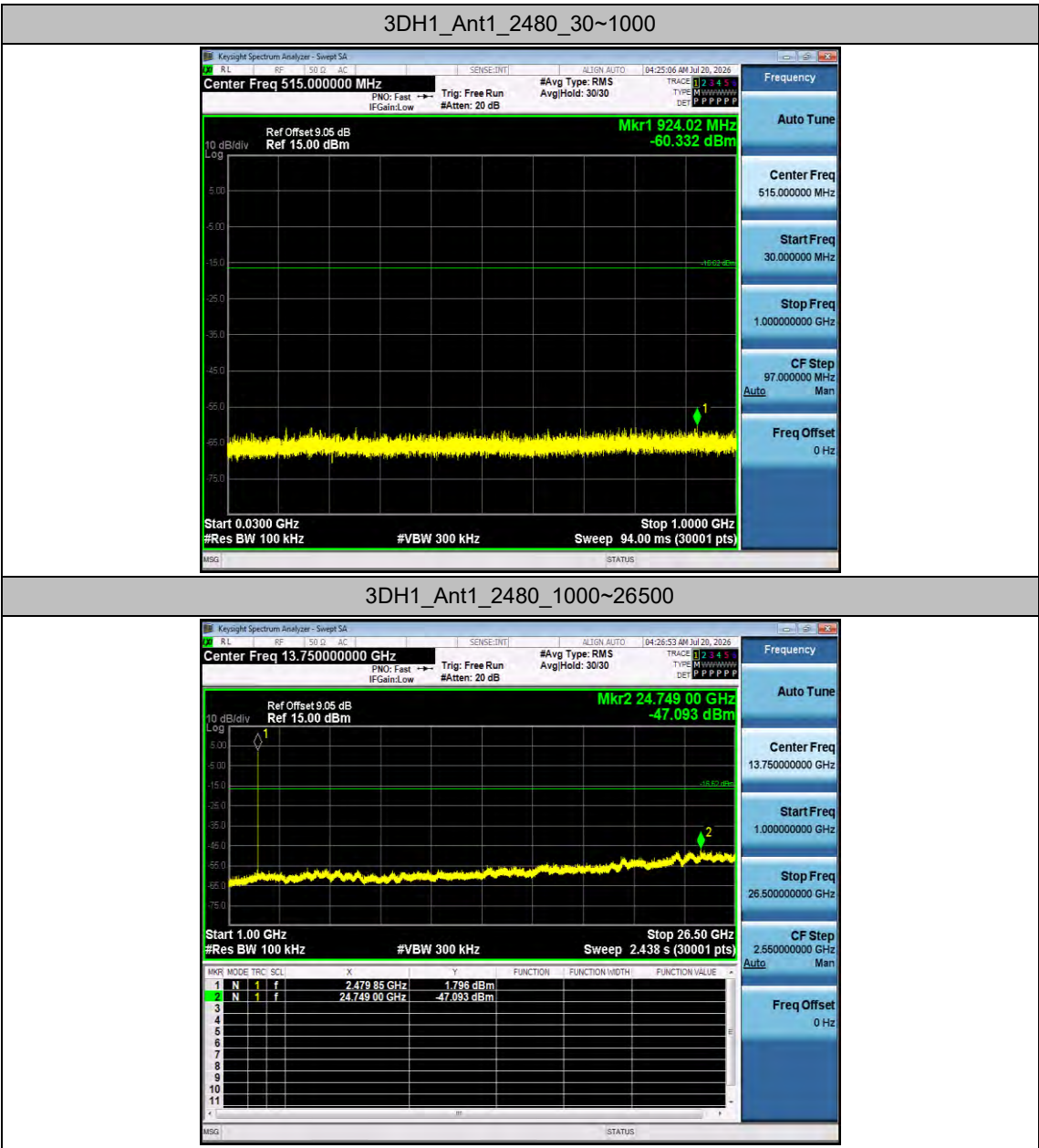


3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference





Appendix A.9: Emissions in Restricted Bands

Test Result

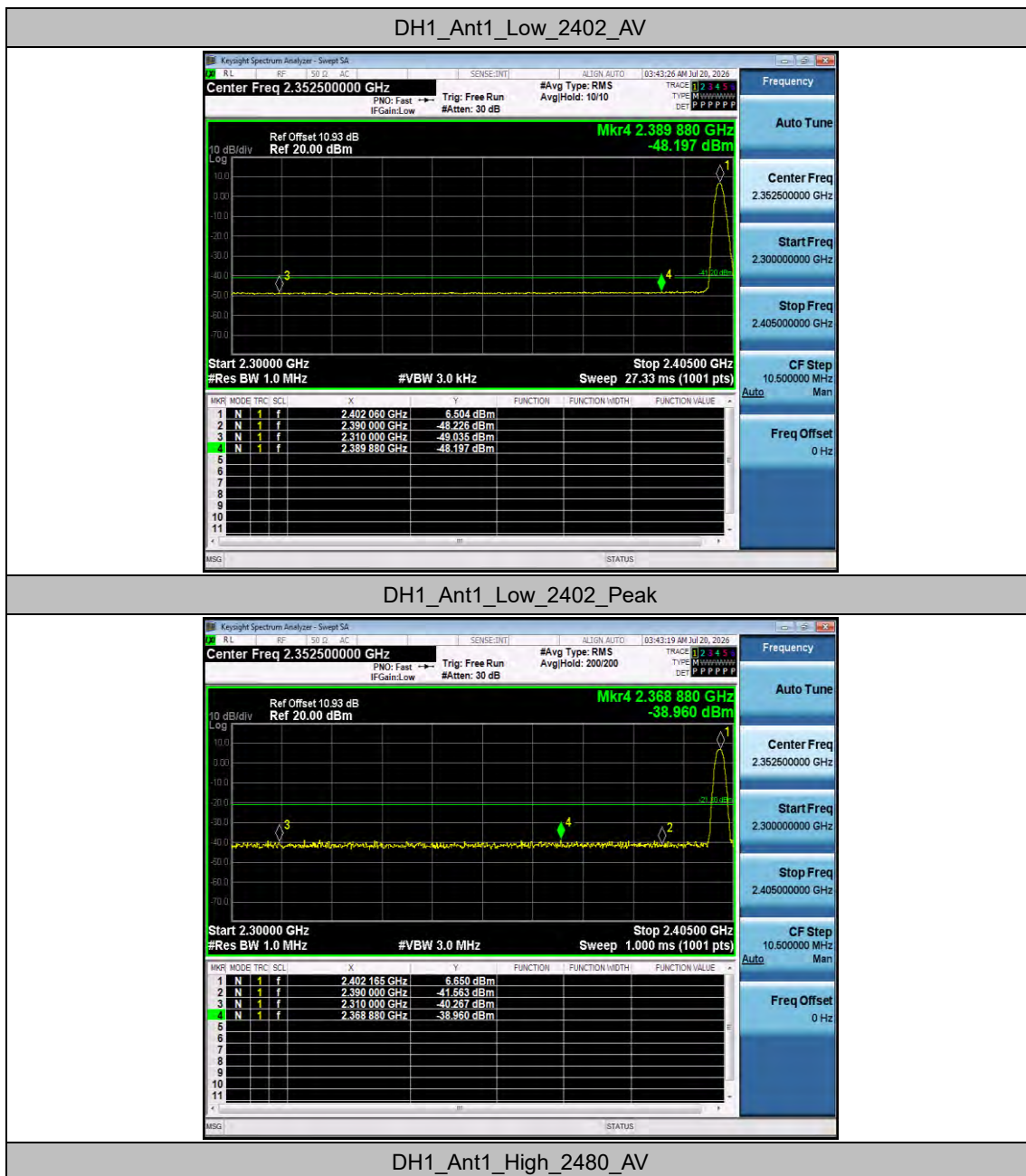
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.04	≤-41.20	46.16	≤54	PASS
				AV	2389.880	-48.2	≤-41.20	47.00	≤54	PASS
				AV	2390.000	-48.23	≤-41.20	46.97	≤54	PASS
				Peak	2310.000	-40.27	≤-21.20	54.93	≤74	PASS
				Peak	2368.880	-38.96	≤-21.20	56.24	≤74	PASS
				Peak	2390.000	-41.56	≤-21.20	53.64	≤74	PASS
		High	2480	AV	2483.500	-46.84	≤-41.20	48.36	≤54	PASS
				AV	2483.760	-46.78	≤-41.20	48.42	≤54	PASS
				AV	2500.000	-48.04	≤-41.20	47.16	≤54	PASS
				Peak	2483.500	-40.03	≤-21.20	55.17	≤74	PASS
				Peak	2493.680	-38.7	≤-21.20	56.50	≤74	PASS
				Peak	2500.000	-40.25	≤-21.20	54.95	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-48.68	≤-41.20	46.52	≤54	PASS
				AV	2366.150	-48.17	≤-41.20	47.03	≤54	PASS
				AV	2390.000	-48.83	≤-41.20	46.37	≤54	PASS
				Peak	2310.000	-41.94	≤-21.20	53.26	≤74	PASS
				Peak	2374.025	-39	≤-21.20	56.20	≤74	PASS
				Peak	2390.000	-41.66	≤-21.20	53.54	≤74	PASS
		High	2480	AV	2483.500	-46.78	≤-41.20	48.42	≤54	PASS
				AV	2483.520	-46.78	≤-41.20	48.42	≤54	PASS
				AV	2500.000	-47.7	≤-41.20	47.50	≤54	PASS
				Peak	2483.500	-40.1	≤-21.20	55.10	≤74	PASS
				Peak	2484.640	-37.81	≤-21.20	57.39	≤74	PASS
				Peak	2500.000	-41.37	≤-21.20	53.83	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-48.79	≤-41.20	46.41	≤54	PASS
				AV	2387.885	-48.28	≤-41.20	46.92	≤54	PASS
				AV	2390.000	-48.68	≤-41.20	46.52	≤54	PASS
				Peak	2310.000	-41.6	≤-21.20	53.60	≤74	PASS
				Peak	2331.500	-39.25	≤-21.20	55.95	≤74	PASS
				Peak	2390.000	-40.93	≤-21.20	54.27	≤74	PASS
		High	2480	AV	2483.500	-47.04	≤-41.20	48.16	≤54	PASS
				AV	2483.520	-47.04	≤-41.20	48.16	≤54	PASS
				AV	2500.000	-47.9	≤-41.20	47.30	≤54	PASS
				Peak	2483.500	-40.17	≤-21.20	55.03	≤74	PASS
				Peak	2498.160	-38.48	≤-21.20	56.72	≤74	PASS

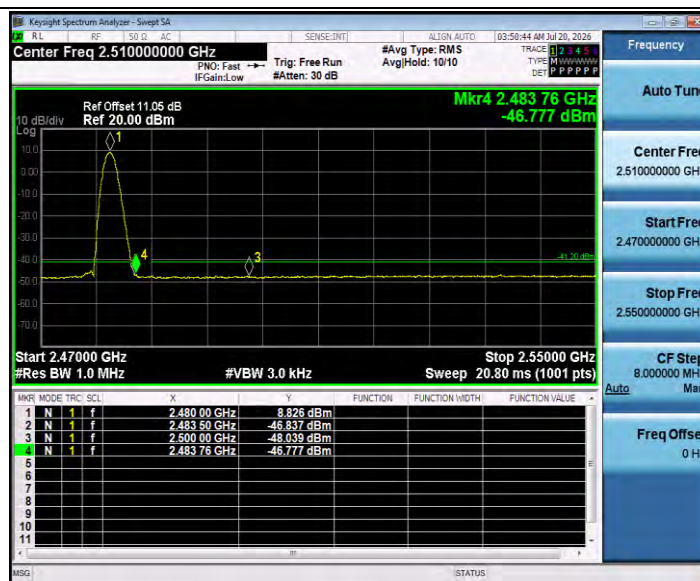
				Peak	2500.000	-41.56	≤-21.20	53.64	≤74	PASS
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Note:

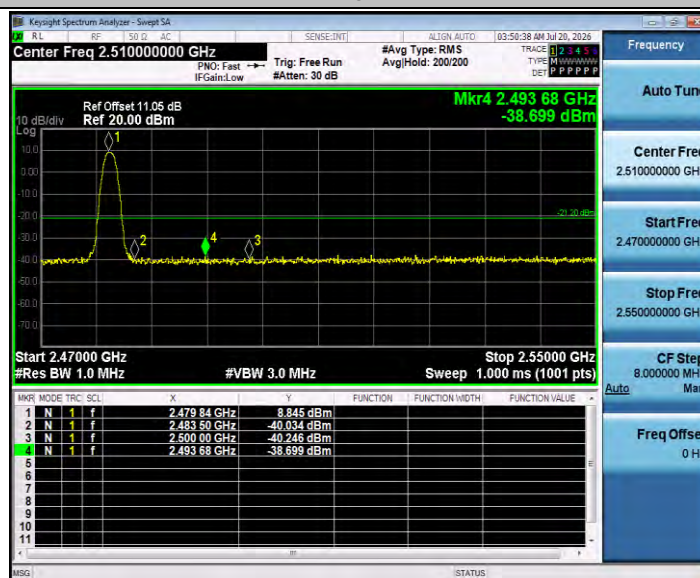
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

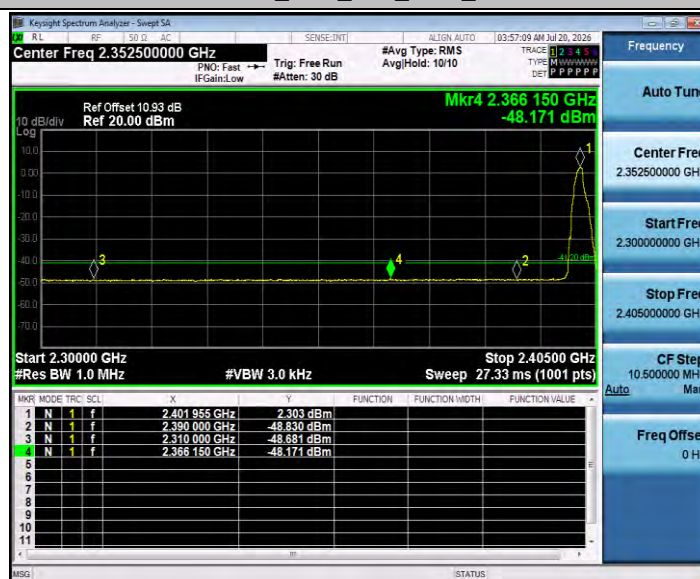




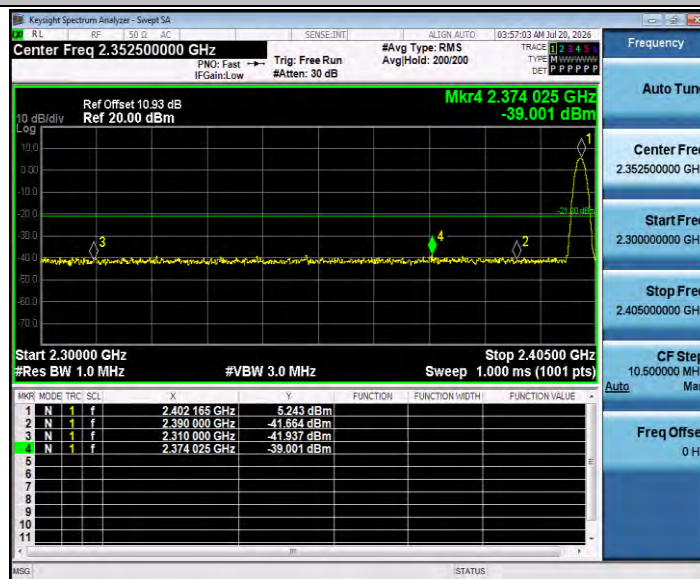
DH1_Ant1_High_2480_Peak



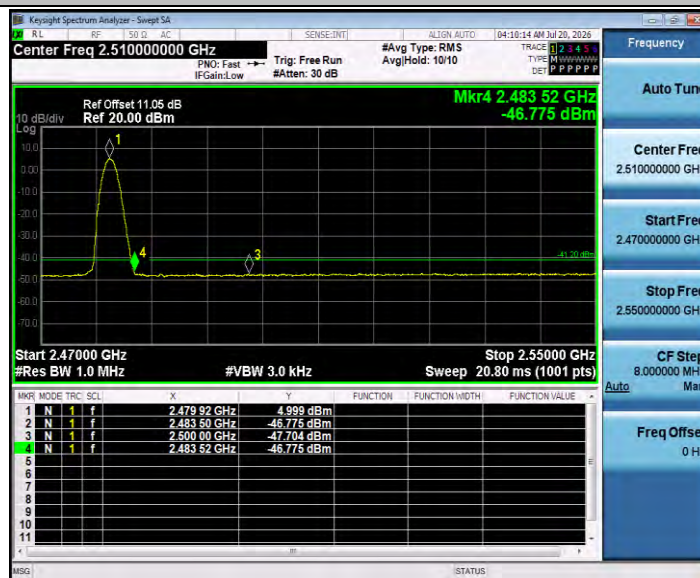
2DH1_Ant1_Low_2402_AV



2DH1_Ant1_Low_2402_Peak



2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak

