

Case No. : <u>GTS20250705002-1-01</u>	
Ambient Condition: <u>22</u> °C, <u>53</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.7.11</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	0.933	2401.526	2402.459	---	---
		2441	0.924	2440.535	2441.459	---	---
		2480	0.930	2479.529	2480.459	---	---
2DH1	Ant1	2402	1.305	2401.328	2402.633	---	---
		2441	1.311	2440.328	2441.639	---	---
		2480	1.311	2479.337	2480.648	---	---
3DH1	Ant1	2402	1.284	2401.352	2402.636	---	---
		2441	1.257	2440.370	2441.627	---	---
		2480	1.263	2479.367	2480.630	---	---

Test Graphs

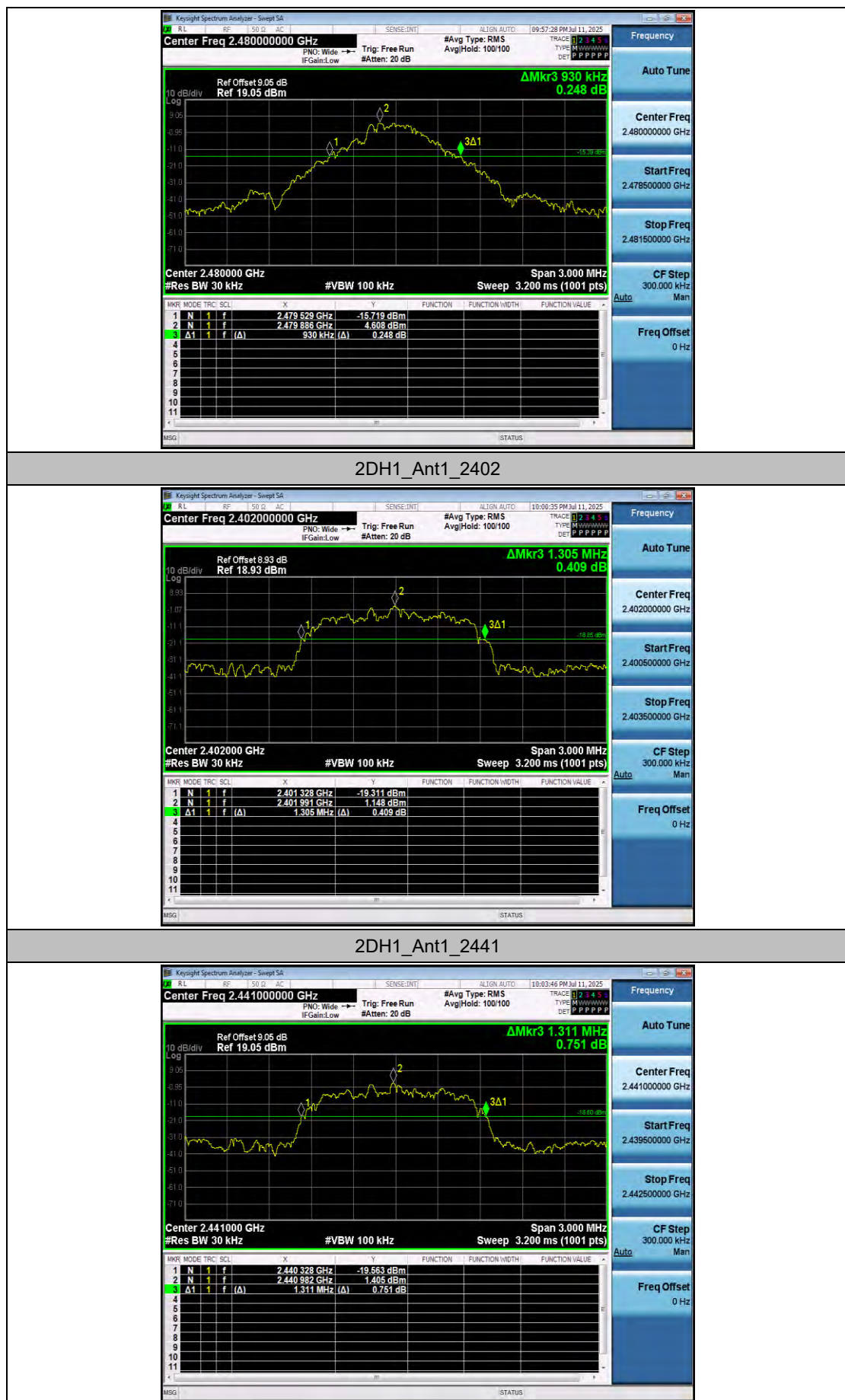
DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



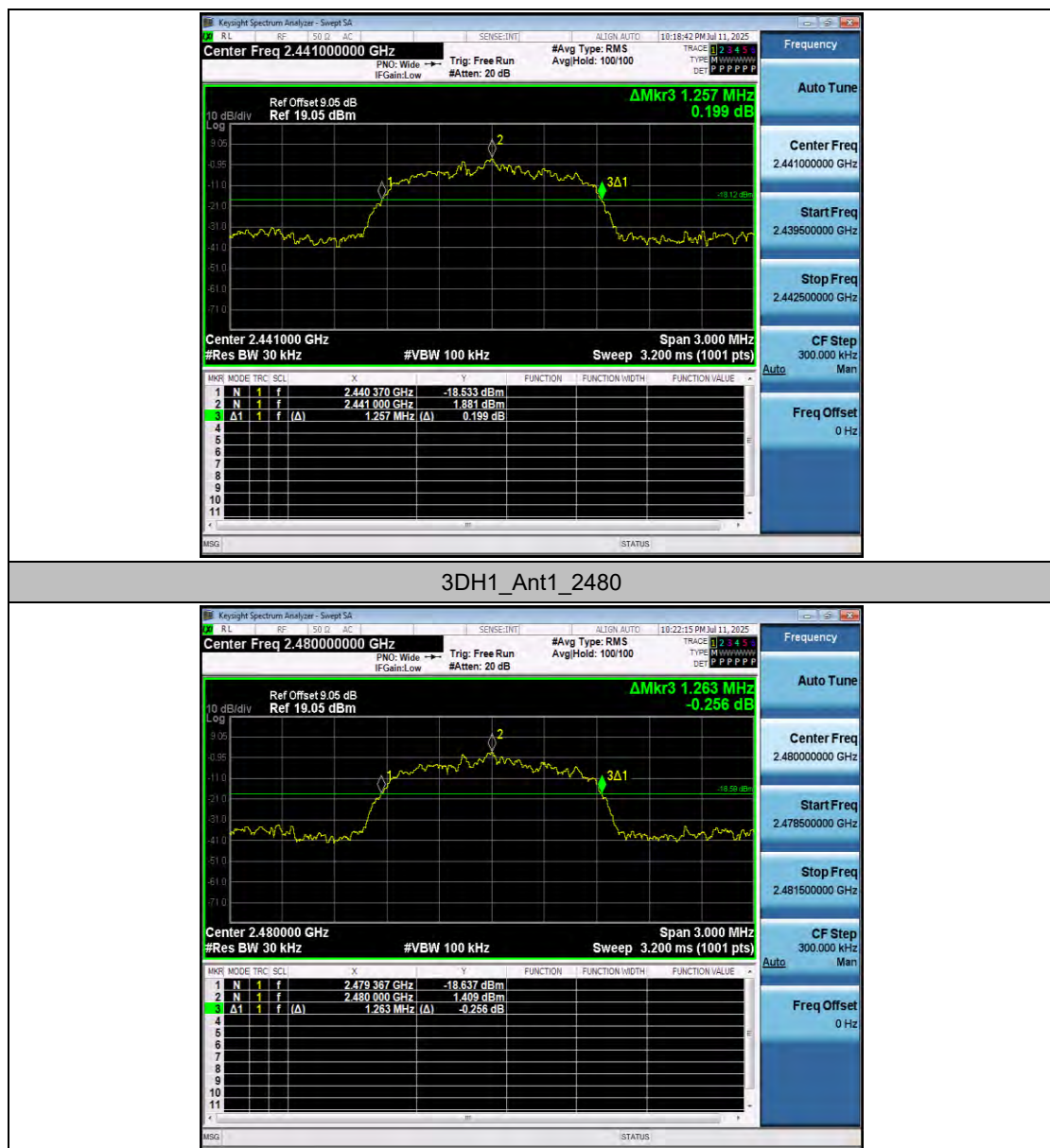
2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441

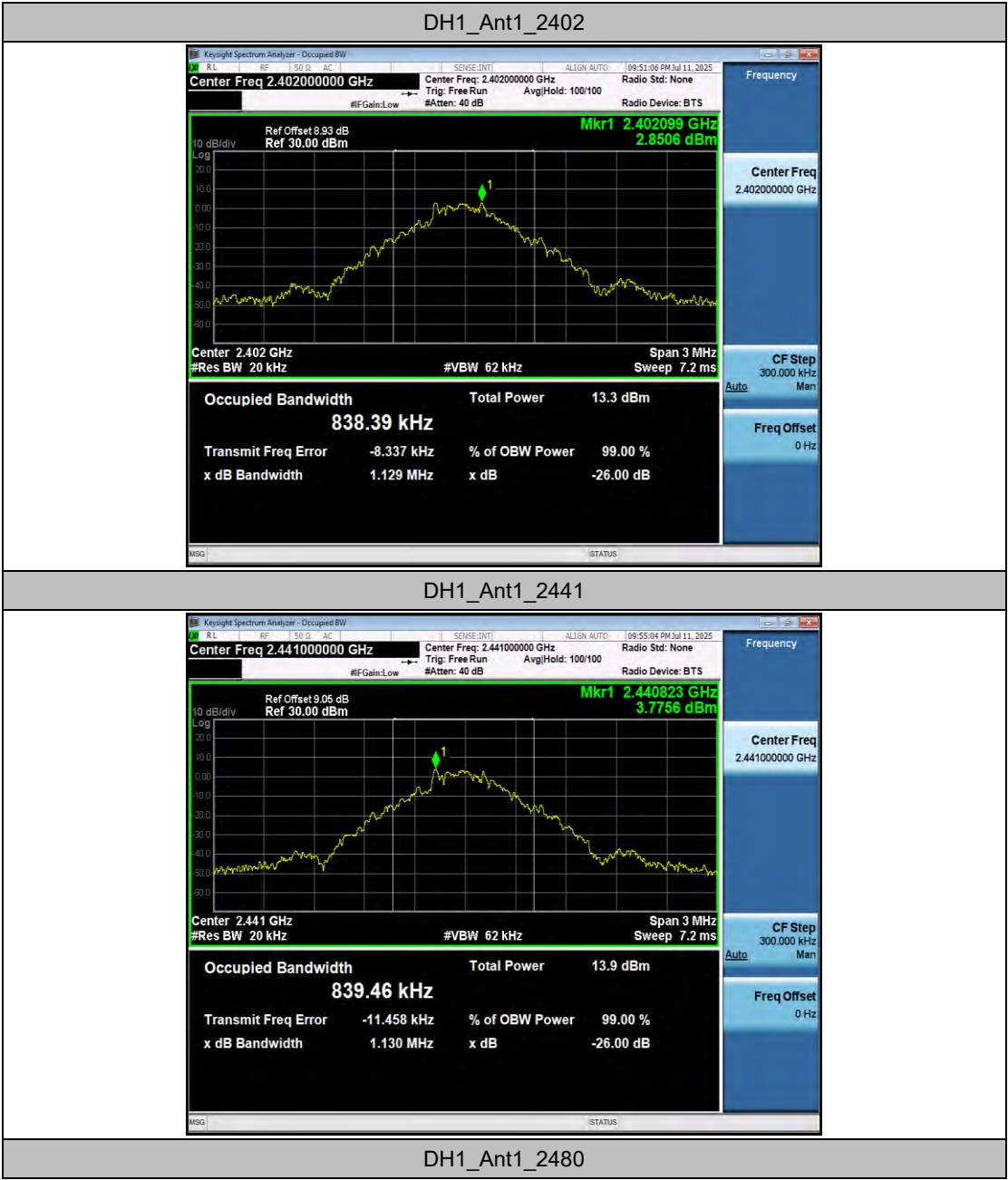


Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.83839	2401.5725	2402.4109	---	---
		2441	0.83946	2440.5688	2441.4083	---	---
		2480	0.81957	2479.5711	2480.3906	---	---
2DH1	Ant1	2402	1.1940	2401.3913	2402.5853	---	---
		2441	1.1945	2440.3909	2441.5854	---	---
		2480	1.1824	2479.3929	2480.5753	---	---
3DH1	Ant1	2402	1.1676	2401.4182	2402.5858	---	---
		2441	1.1689	2440.4180	2441.5869	---	---
		2480	1.1644	2479.4190	2480.5834	---	---

Test Graphs





2DH1_Ant1_2402



2DH1_Ant1_2441



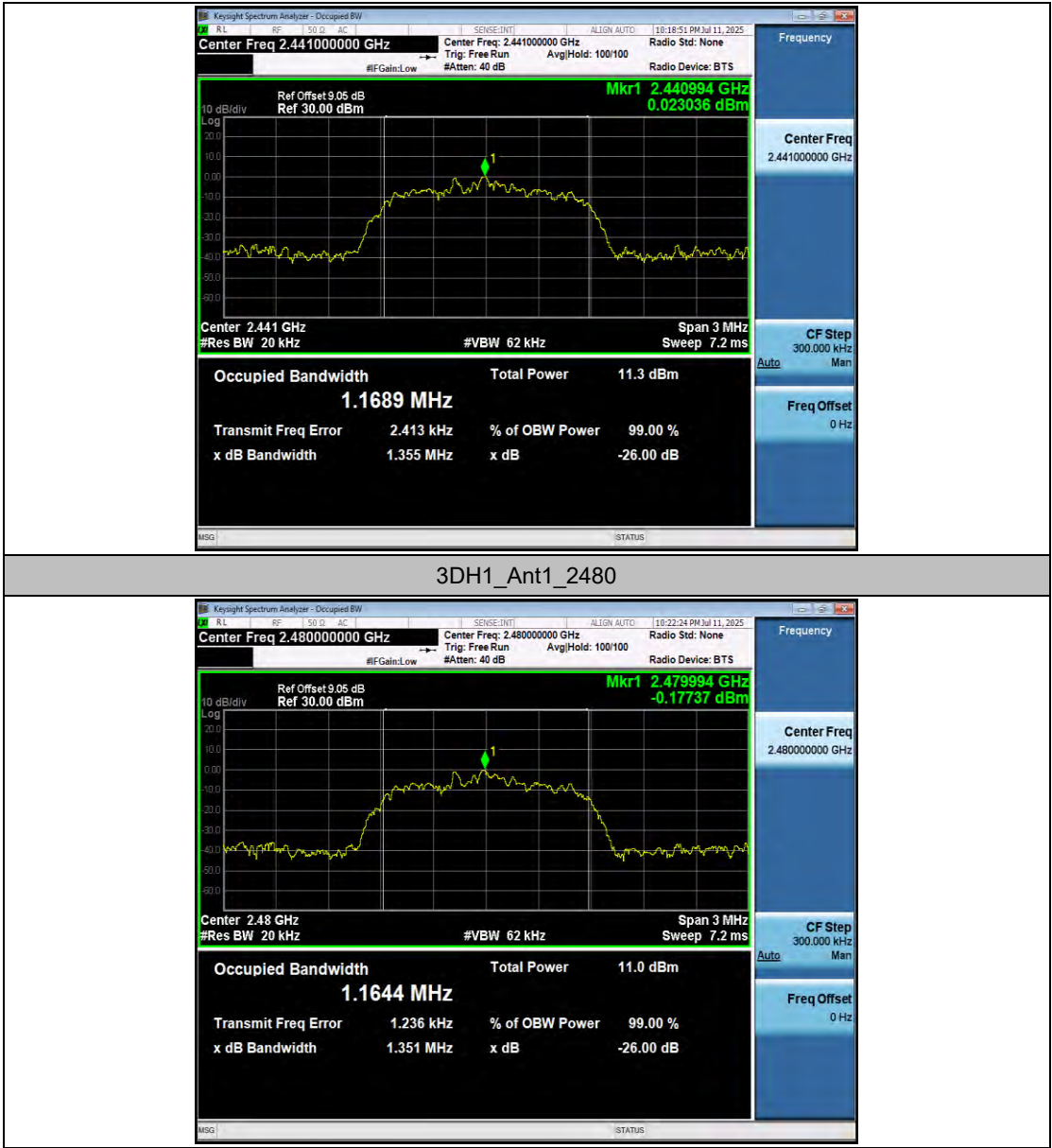
2DH1_Ant1_2480



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	7.32	≤30.00	PASS
		2441	8.09	≤30.00	PASS
		2480	7.93	≤30.00	PASS
2DH1	Ant1	2402	6.67	≤20.97	PASS
		2441	7.52	≤20.97	PASS
		2480	7.27	≤20.97	PASS
3DH1	Ant1	2402	7.02	≤20.97	PASS
		2441	7.82	≤20.97	PASS
		2480	7.62	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.996	≥ 0.933	PASS
		Hop_2441	1.01	≥ 0.933	PASS
		Hop_2480	0.986	≥ 0.933	PASS
2DH1	Ant1	Hop_2402	1.02	≥ 0.874	PASS
		Hop_2441	1.166	≥ 0.874	PASS
		Hop_2480	1.006	≥ 0.874	PASS
3DH1	Ant1	Hop_2402	1	≥ 0.856	PASS
		Hop_2441	0.998	≥ 0.856	PASS
		Hop_2480	0.986	≥ 0.856	PASS

Test Graphs



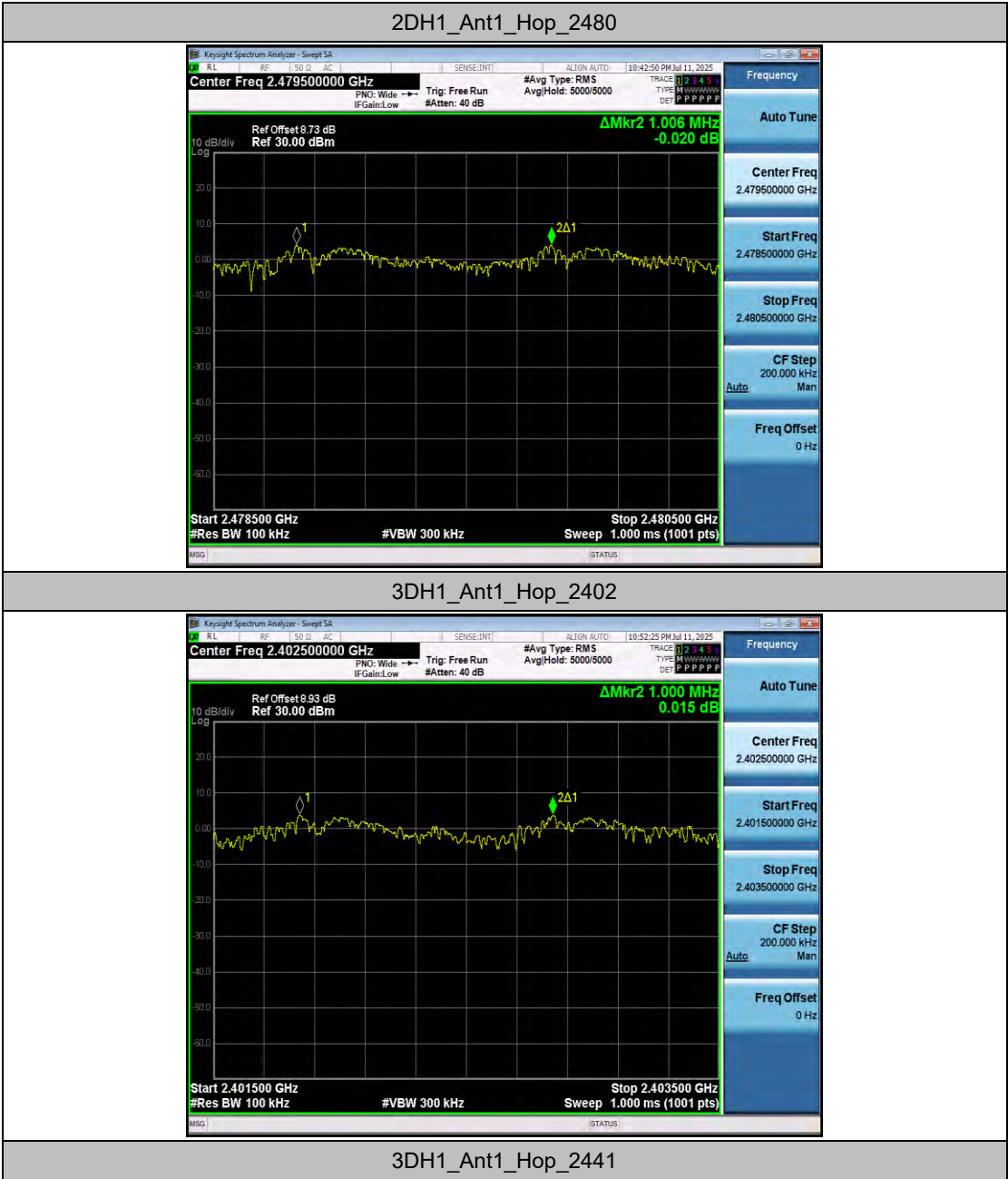


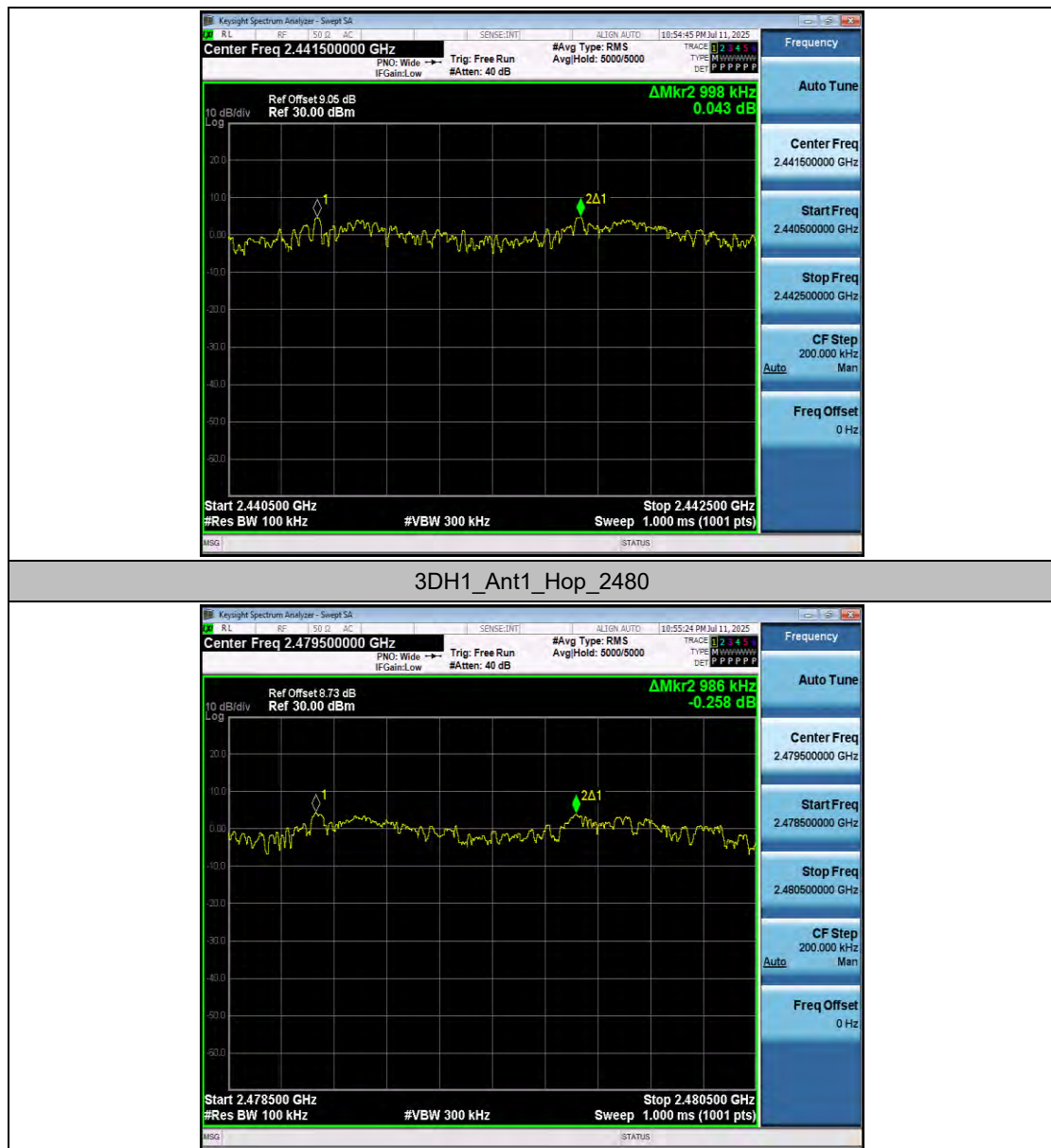
2DH1_Ant1_Hop_2402



2DH1_Ant1_Hop_2441





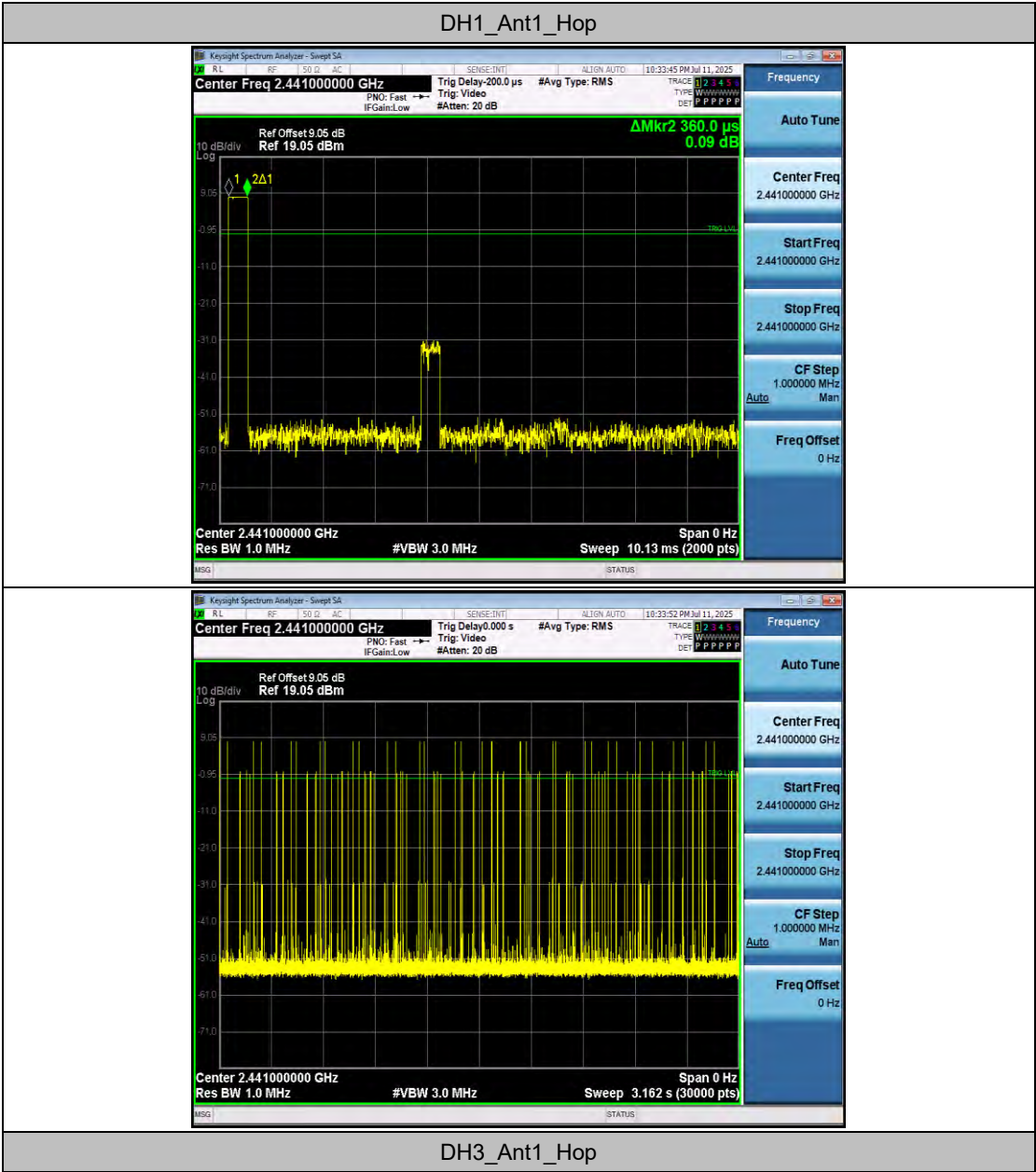


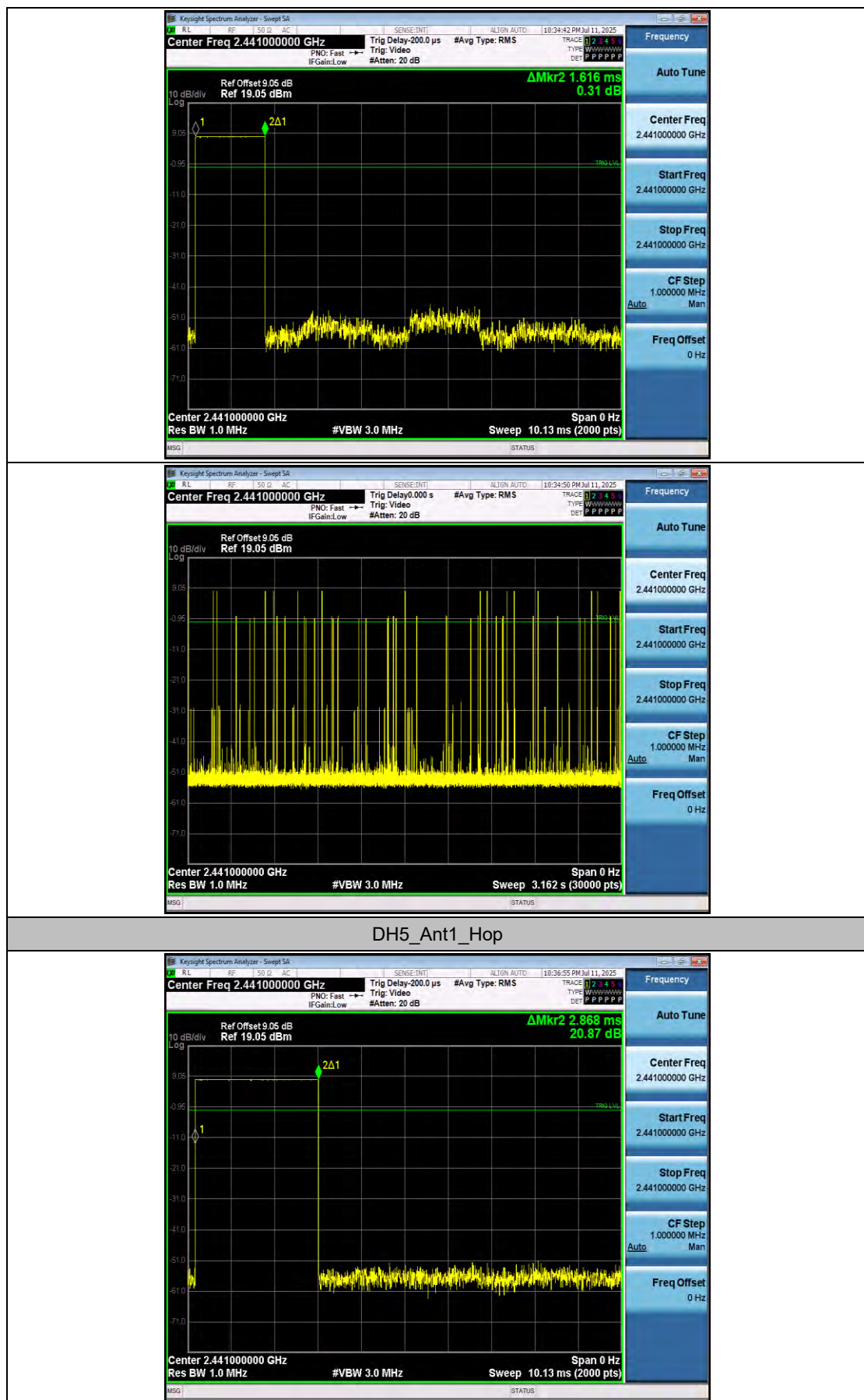
Appendix A.5: Time of occupancy

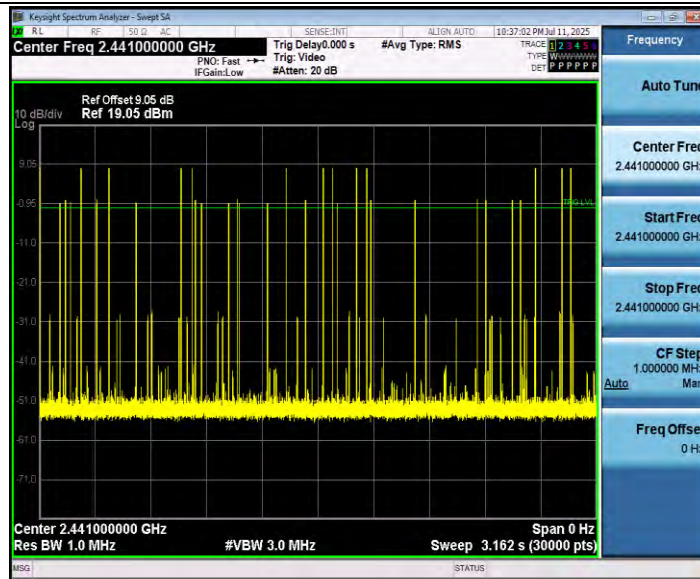
Test Result

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	160	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.868	130	0.373	≤0.4	PASS
2DH1	Ant1	Hop	0.360	330	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.616	140	0.226	≤0.4	PASS
2DH5	Ant1	Hop	2.863	100	0.286	≤0.4	PASS
3DH1	Ant1	Hop	0.355	320	0.114	≤0.4	PASS
3DH3	Ant1	Hop	1.616	130	0.21	≤0.4	PASS
3DH5	Ant1	Hop	2.863	130	0.372	≤0.4	PASS

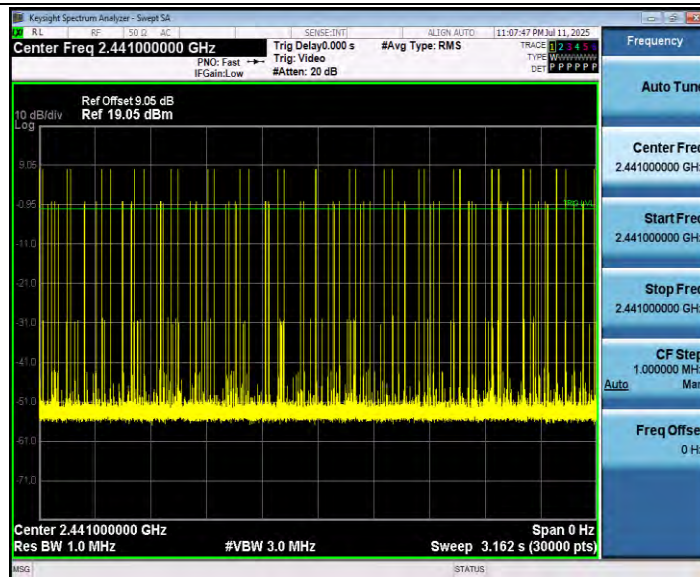
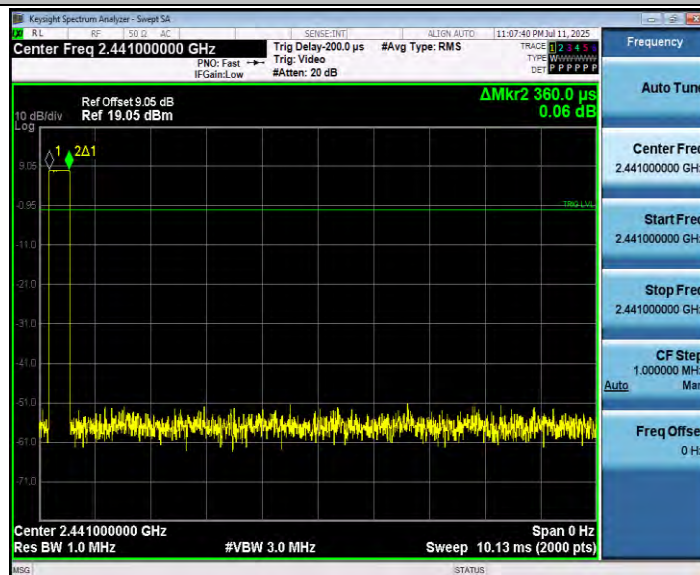
Test Graphs



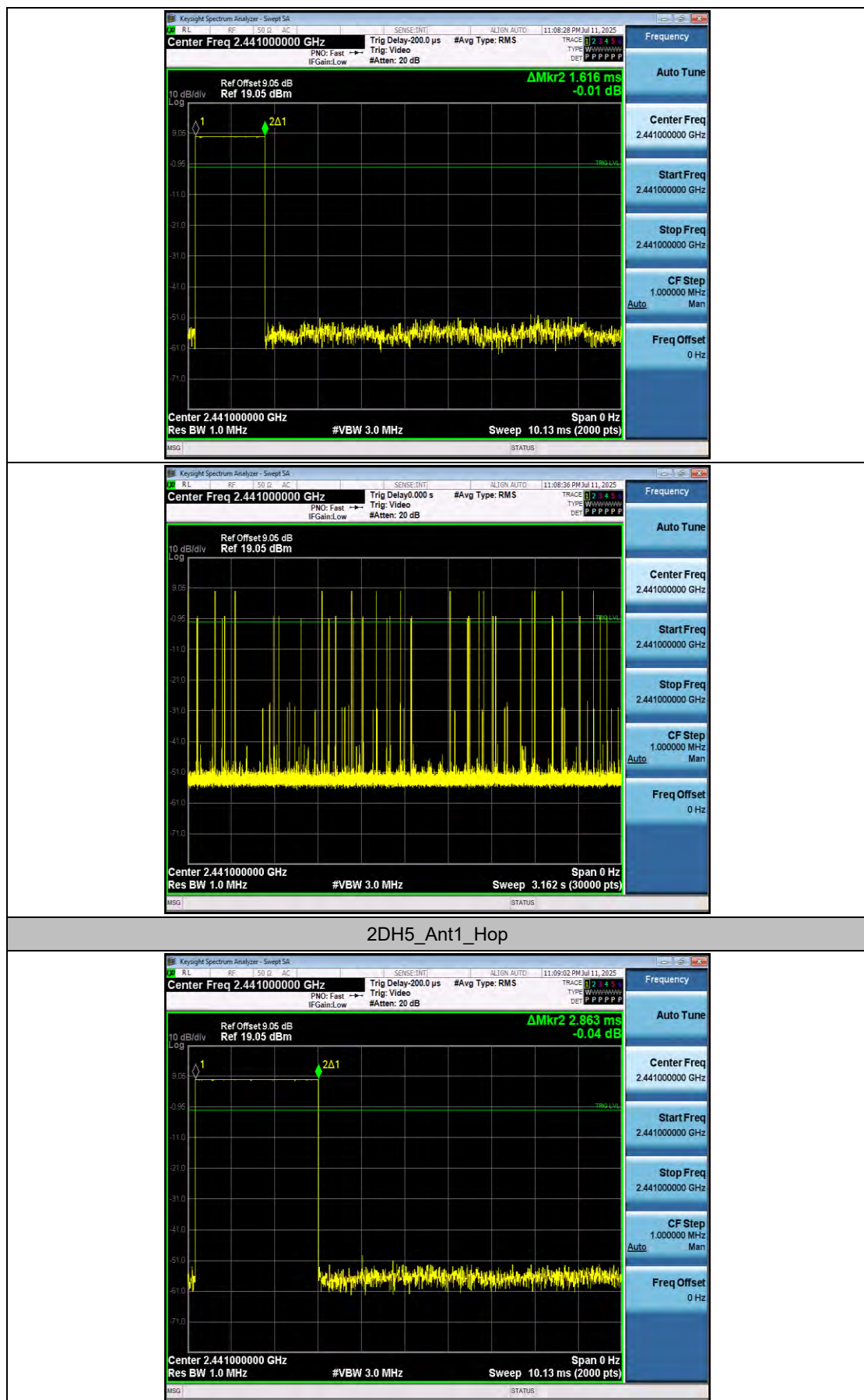




2DH1_Ant1_Hop

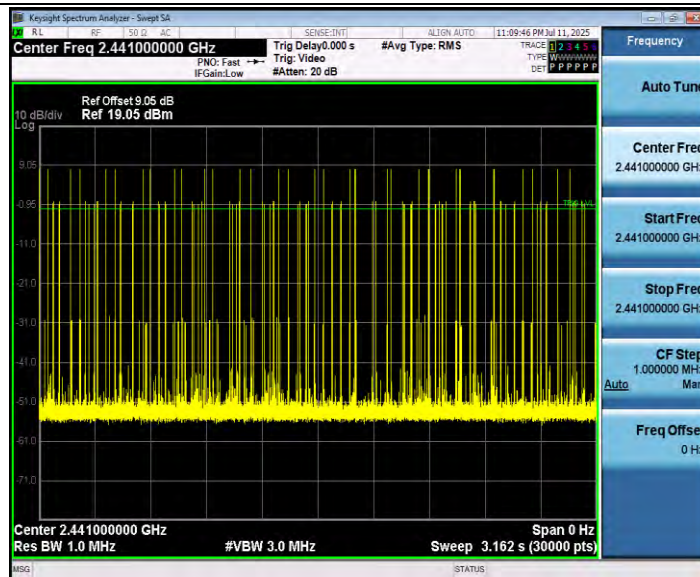
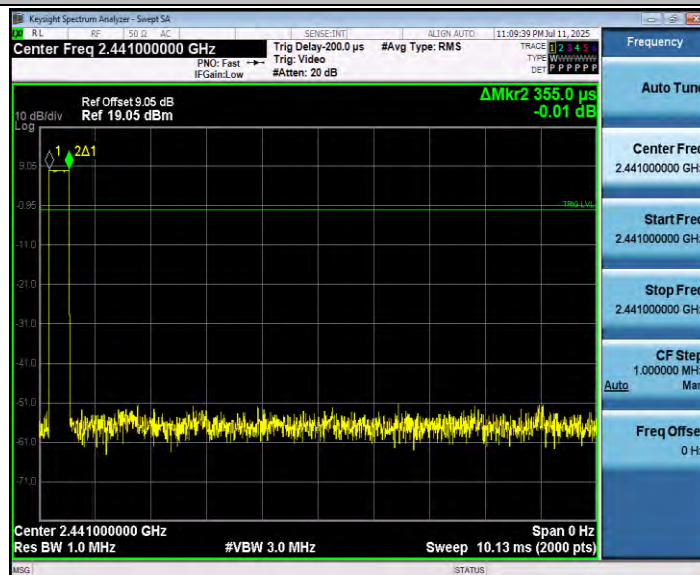


2DH3_Ant1_Hop

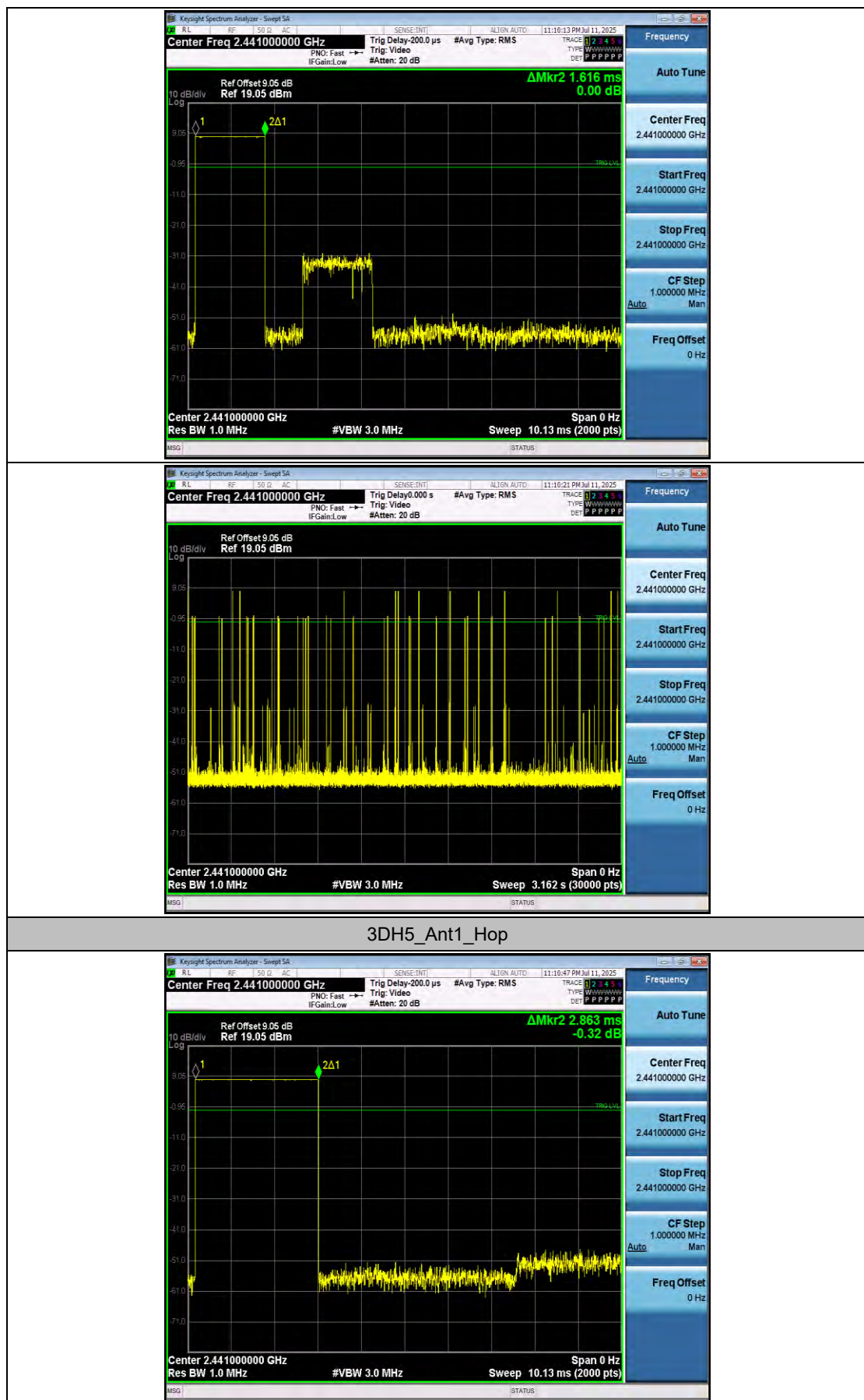


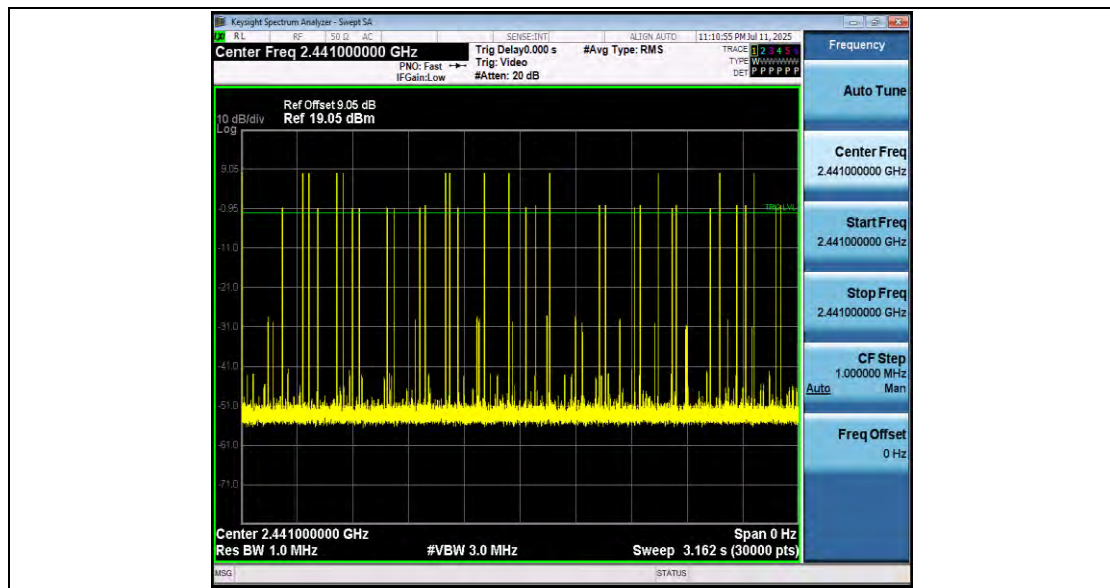


3DH1_Ant1_Hop



3DH3_Ant1_Hop



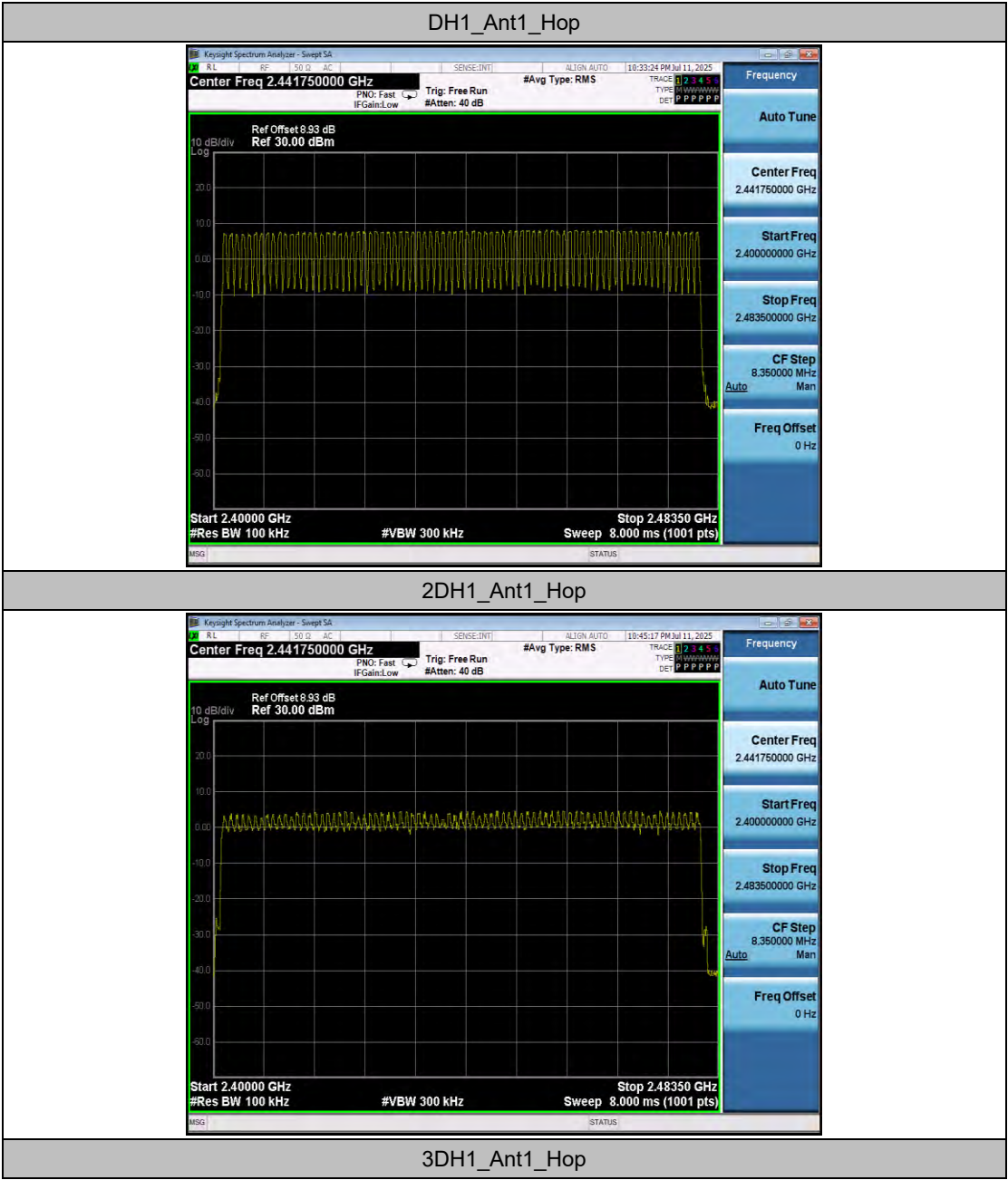


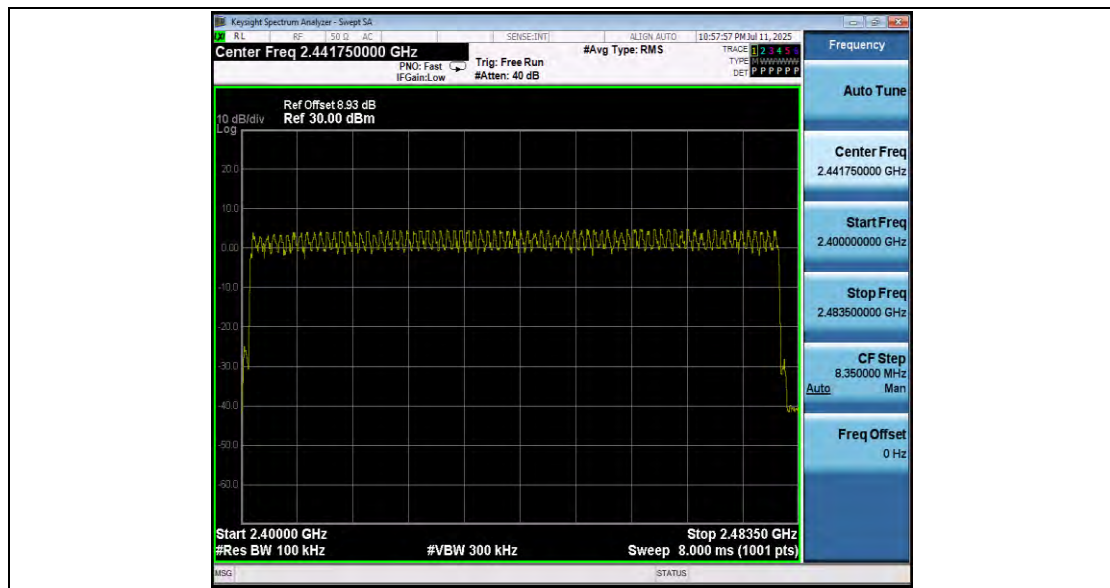
Appendix A.6: Number of hopping channels

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





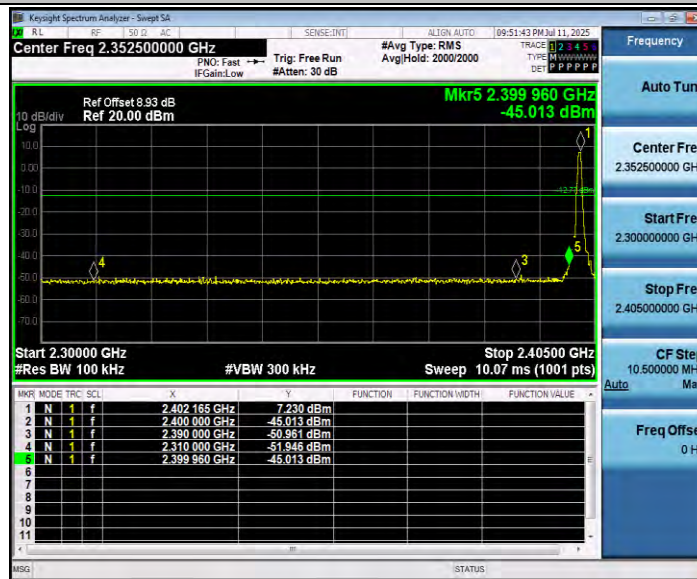
Appendix A.7: Band edge measurements

Test Result

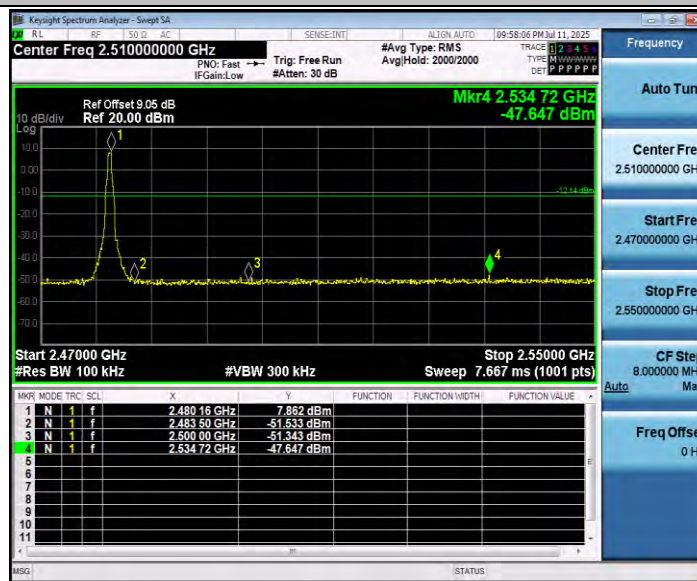
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	7.23	-45.01	≤-12.77	PASS
		High	2480	7.86	-47.65	≤-12.14	PASS
		Low	Hop_2402	6.85	-48.72	≤-13.15	PASS
		High	Hop_2480	7.58	-49.02	≤-12.42	PASS
2DH1	Ant1	Low	2402	3.79	-42.02	≤-16.21	PASS
		High	2480	4.47	-49.16	≤-15.53	PASS
		Low	Hop_2402	3.74	-46.92	≤-16.26	PASS
		High	Hop_2480	3.87	-49.25	≤-16.14	PASS
3DH1	Ant1	Low	2402	3.82	-43.57	≤-16.18	PASS
		High	2480	4.50	-49.1	≤-15.51	PASS
		Low	Hop_2402	3.76	-49.24	≤-16.24	PASS
		High	Hop_2480	4.51	-48.46	≤-15.49	PASS

Test Graphs

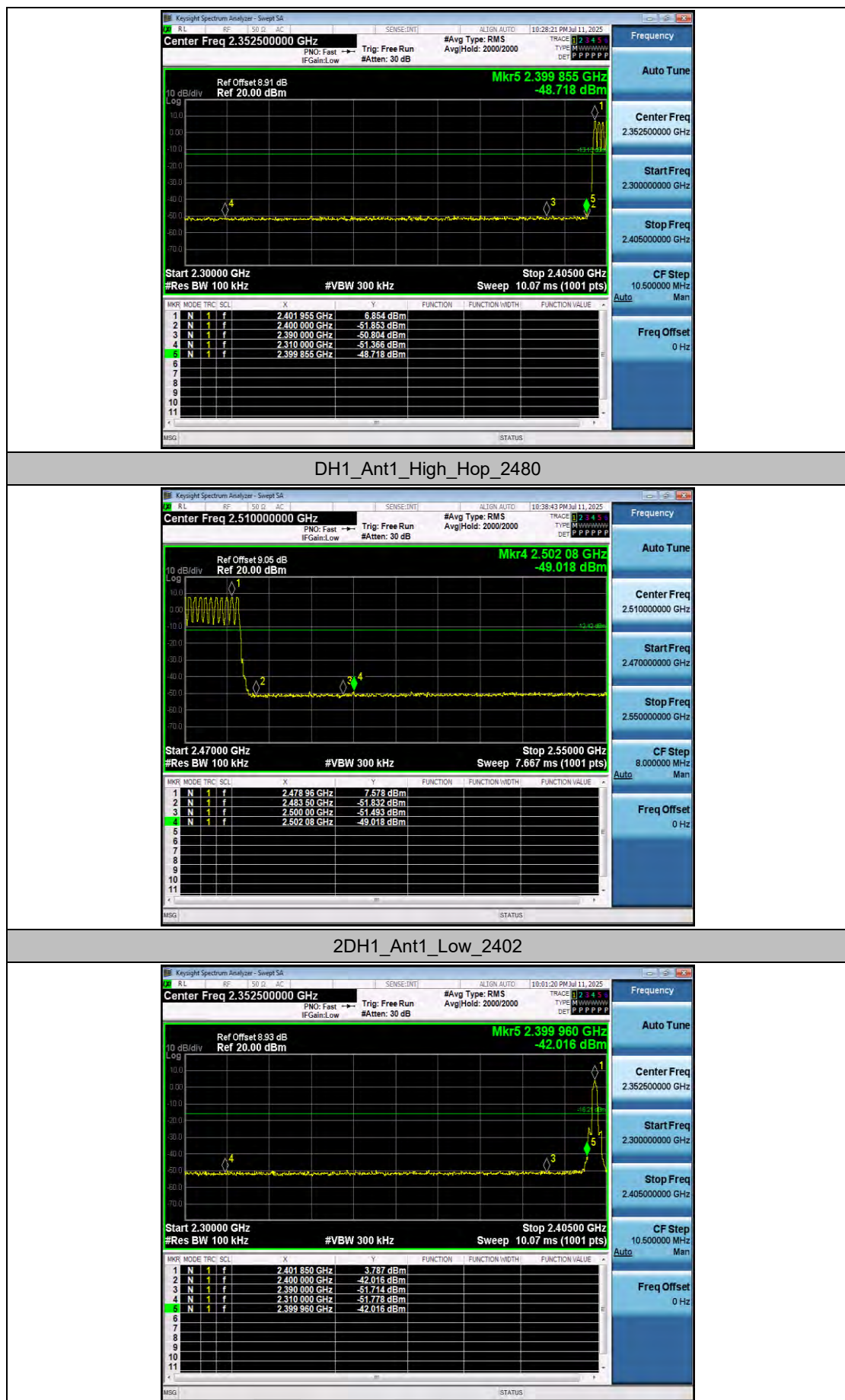
DH1_Ant1_Low_2402



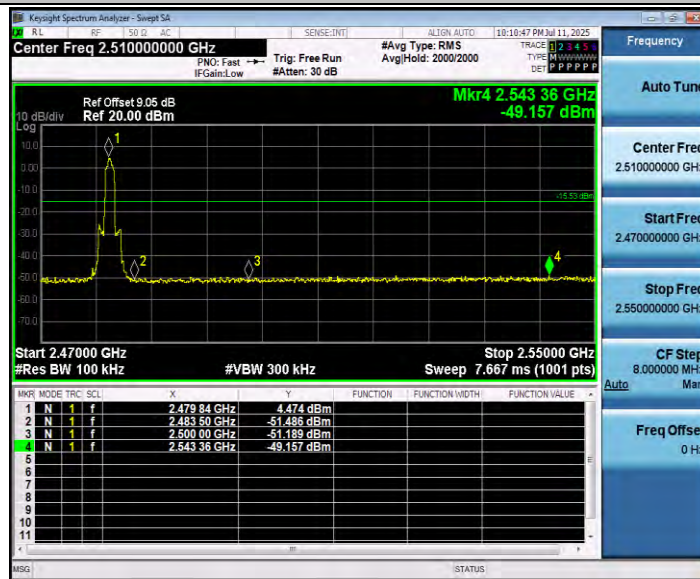
DH1_Ant1_High_2480



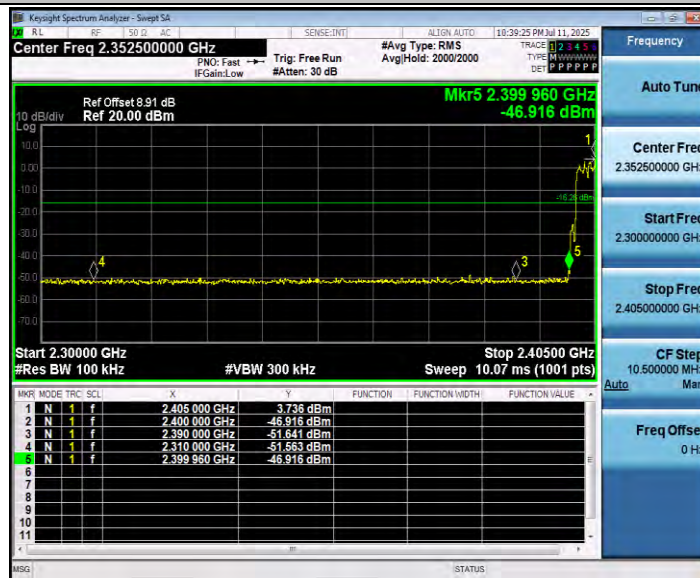
DH1_Ant1_Low_Hop_2402



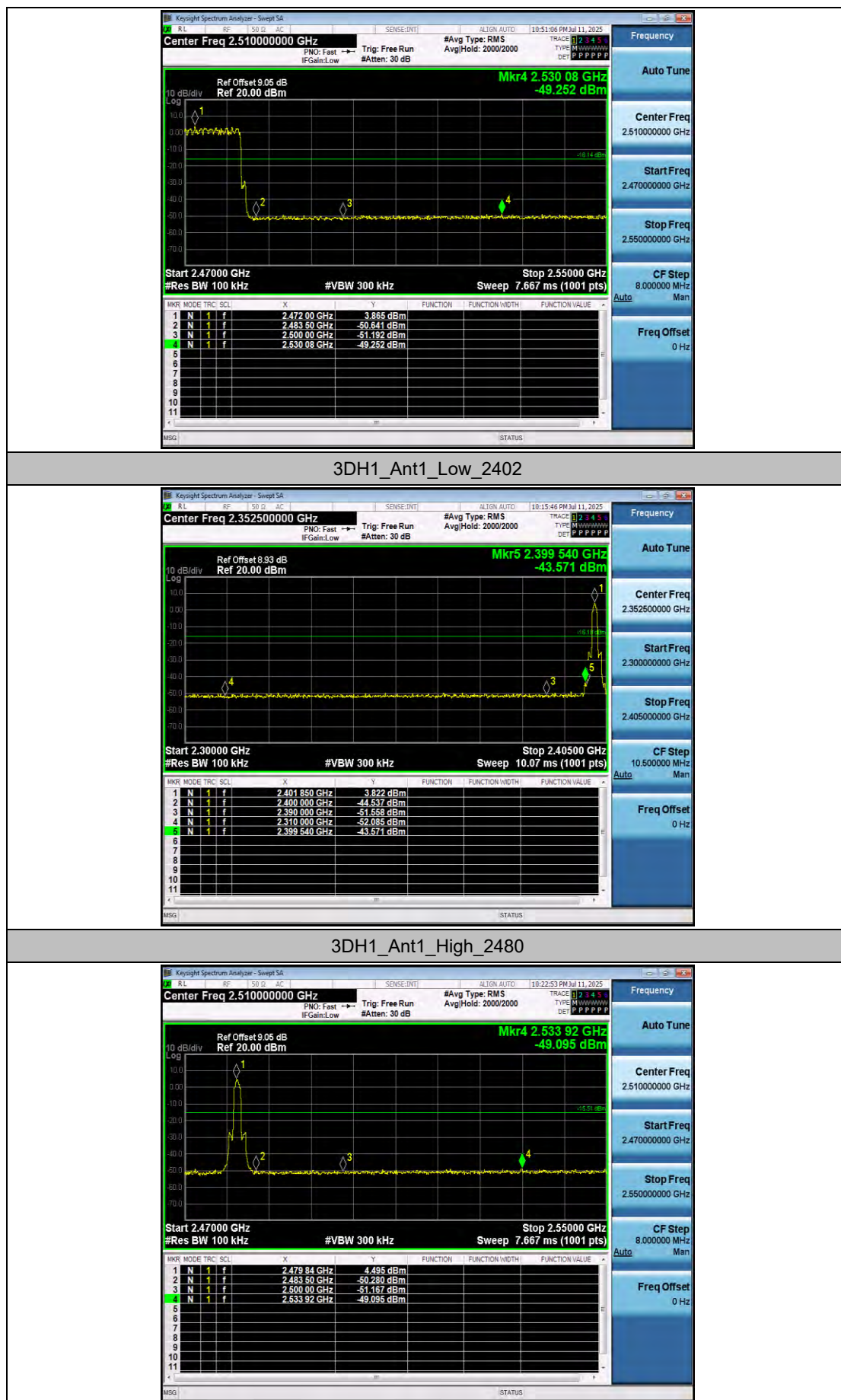
2DH1_Ant1_High_2480



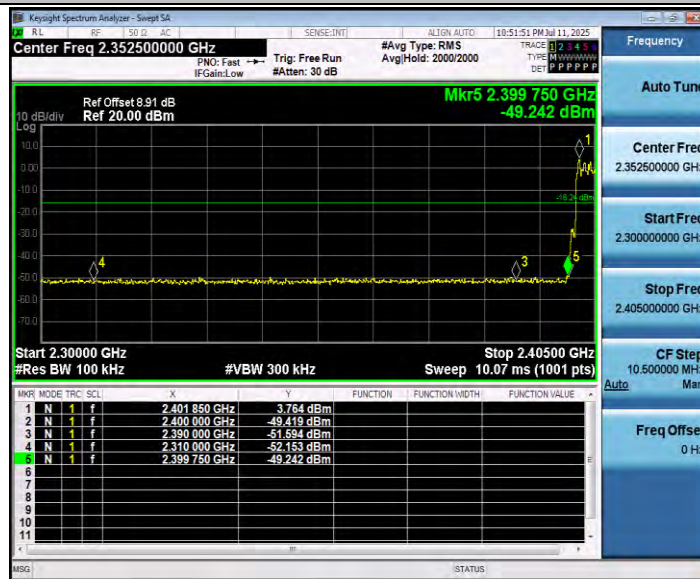
2DH1_Ant1_Low_Hop_2402



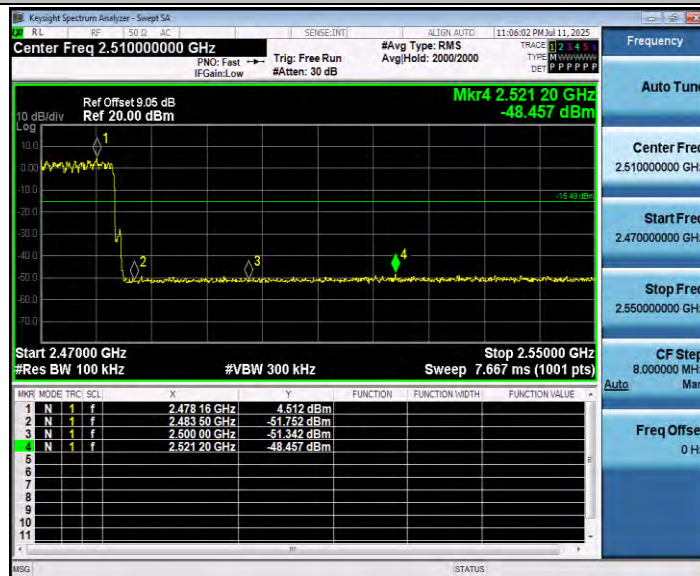
2DH1_Ant1_High_Hop_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

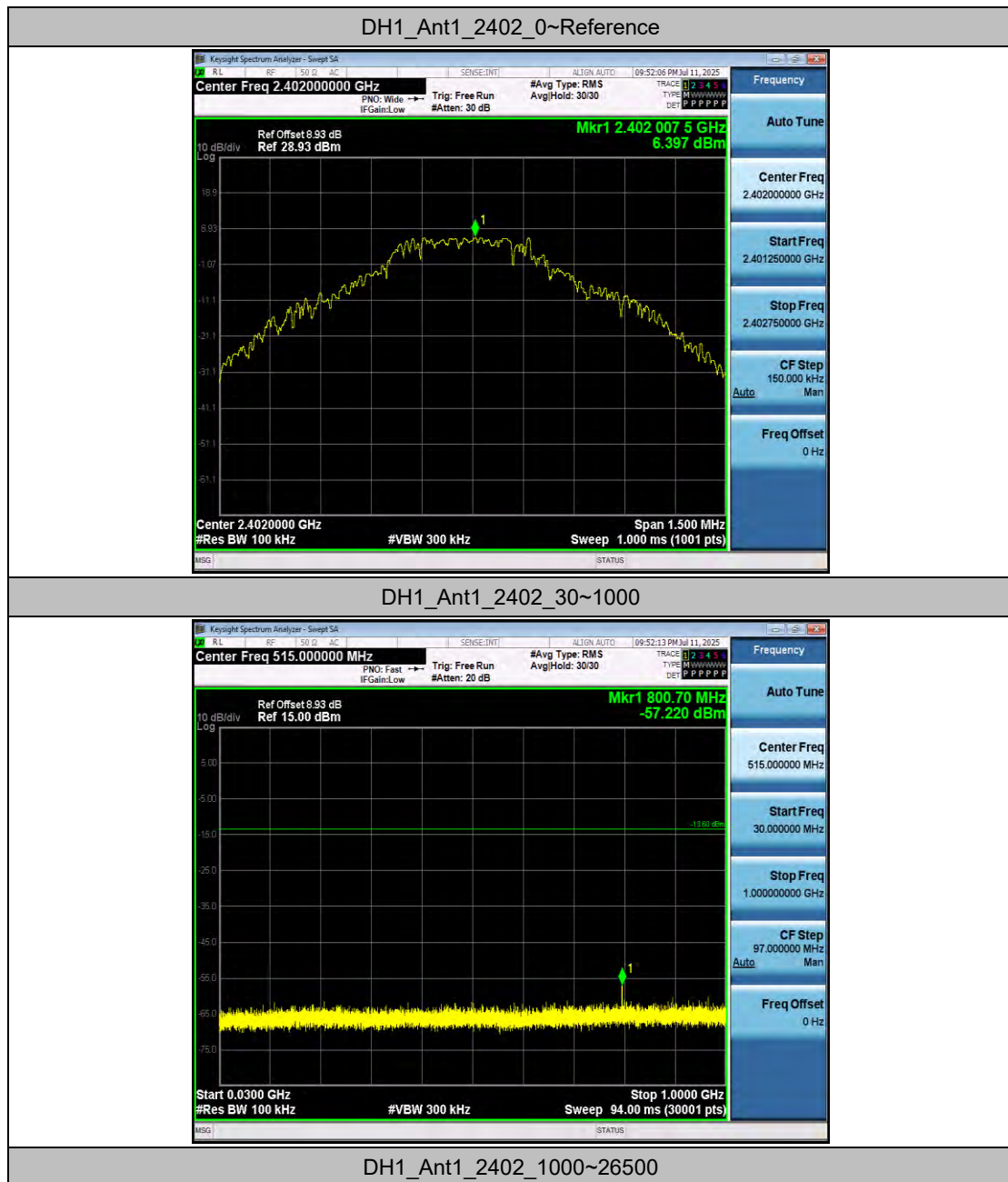


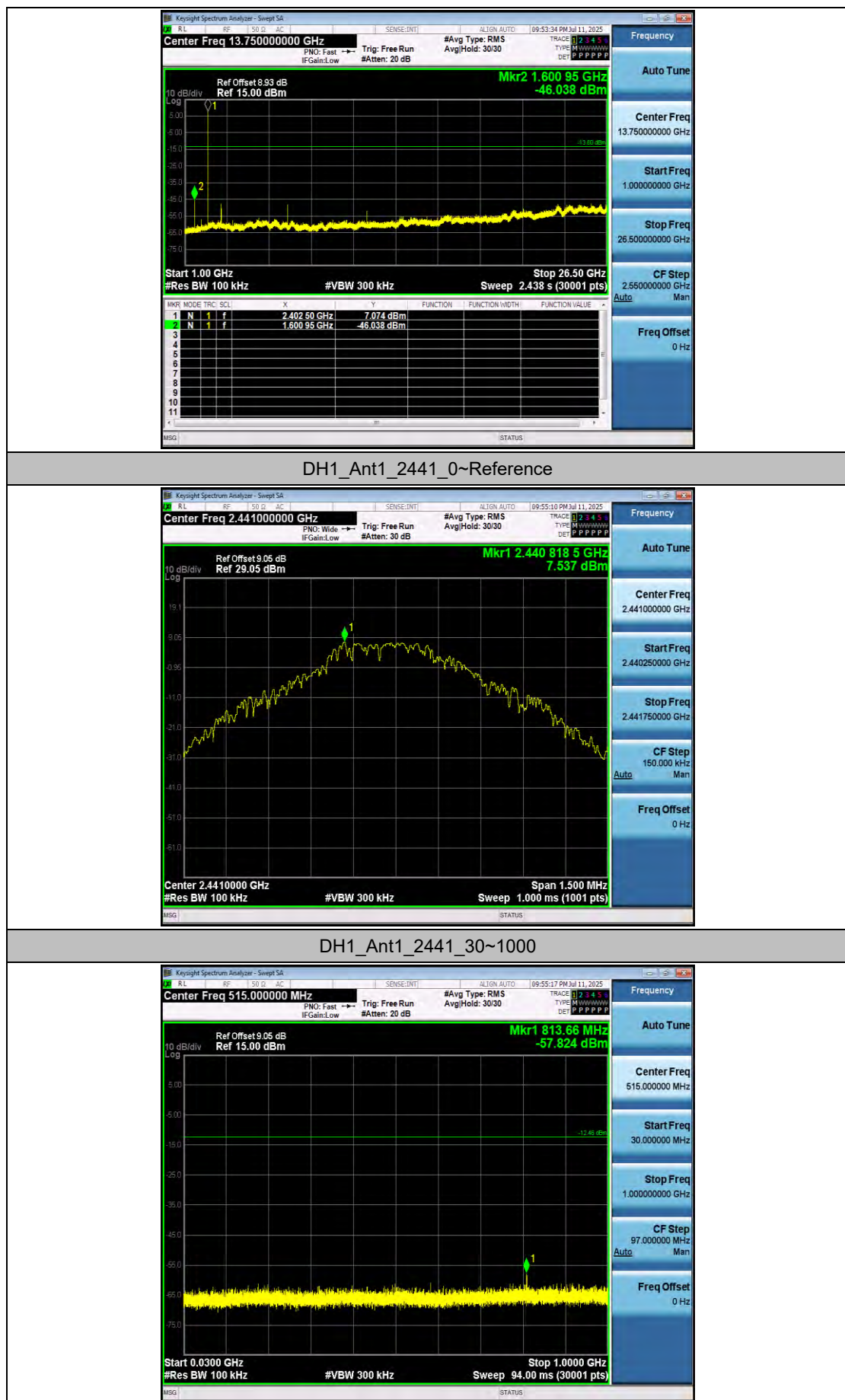
Appendix A.8: Conducted Spurious Emission

Test Result

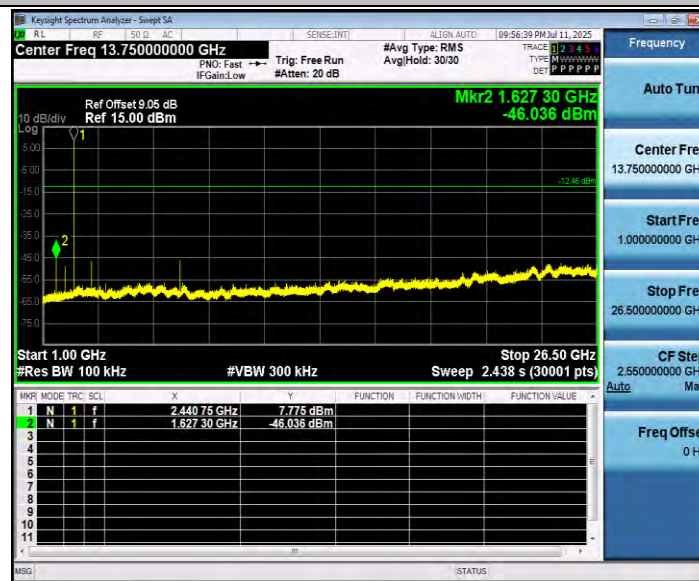
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	6.40	6.40	---	PASS
			30~1000	6.40	-57.22	≤-13.6	PASS
			1000~26500	6.40	-46.04	≤-13.6	PASS
		2441	Reference	7.54	7.54	---	PASS
			30~1000	7.54	-57.82	≤-12.46	PASS
			1000~26500	7.54	-46.04	≤-12.46	PASS
		2480	Reference	7.50	7.50	---	PASS
			30~1000	7.50	-59.03	≤-12.5	PASS
			1000~26500	7.50	-46.08	≤-12.5	PASS
2DH1	Ant1	2402	Reference	3.05	3.05	---	PASS
			30~1000	3.05	-59.08	≤-16.95	PASS
			1000~26500	3.05	-47.78	≤-16.95	PASS
		2441	Reference	4.18	4.18	---	PASS
			30~1000	4.18	-60.78	≤-15.82	PASS
			1000~26500	4.18	-47.6	≤-15.82	PASS
		2480	Reference	3.99	3.99	---	PASS
			30~1000	3.99	-59.79	≤-16.01	PASS
			1000~26500	3.99	-47.95	≤-16.01	PASS
3DH1	Ant1	2402	Reference	3.00	3.00	---	PASS
			30~1000	3.00	-58.48	≤-17	PASS
			1000~26500	3.00	-48.17	≤-17	PASS
		2441	Reference	4.57	4.57	---	PASS
			30~1000	4.57	-59.18	≤-15.43	PASS
			1000~26500	4.57	-47.91	≤-15.43	PASS
		2480	Reference	3.72	3.72	---	PASS
			30~1000	3.72	-59.98	≤-16.28	PASS
			1000~26500	3.72	-47.86	≤-16.28	PASS

Test Graphs





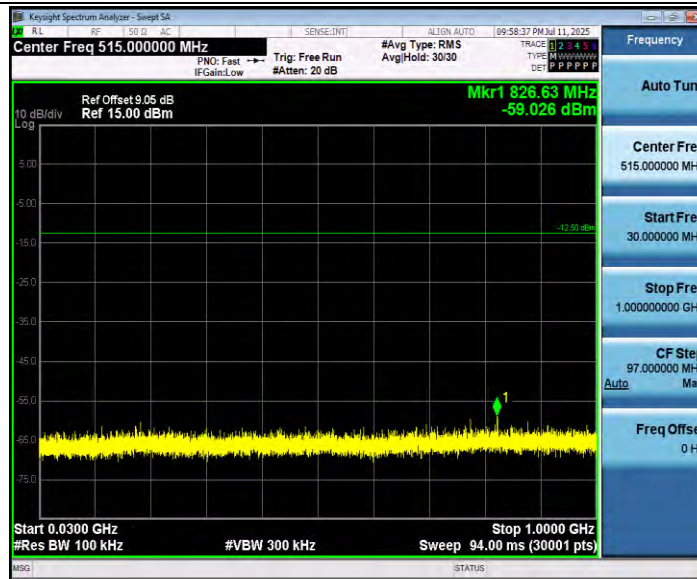
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000



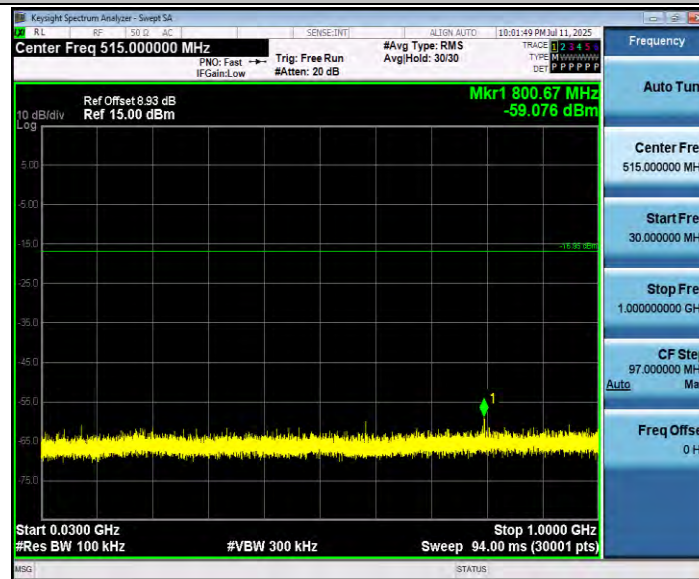
DH1_Ant1_2480_1000~26500



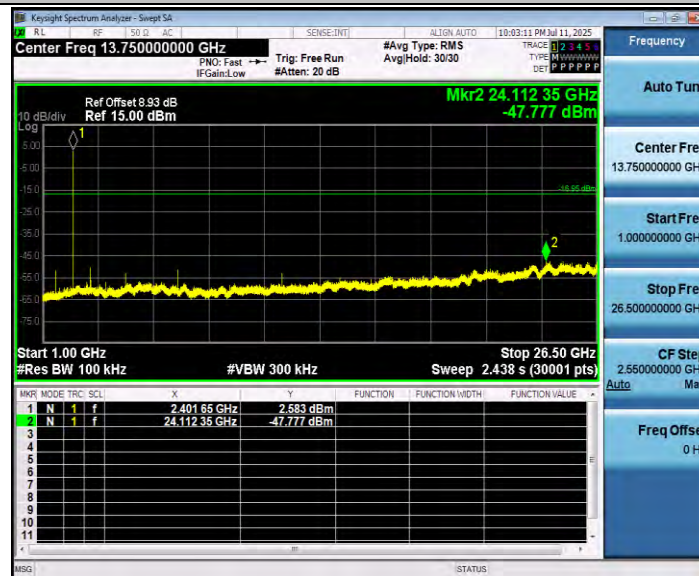
2DH1_Ant1_2402_0~Reference



2DH1_Ant1_2402_30~1000



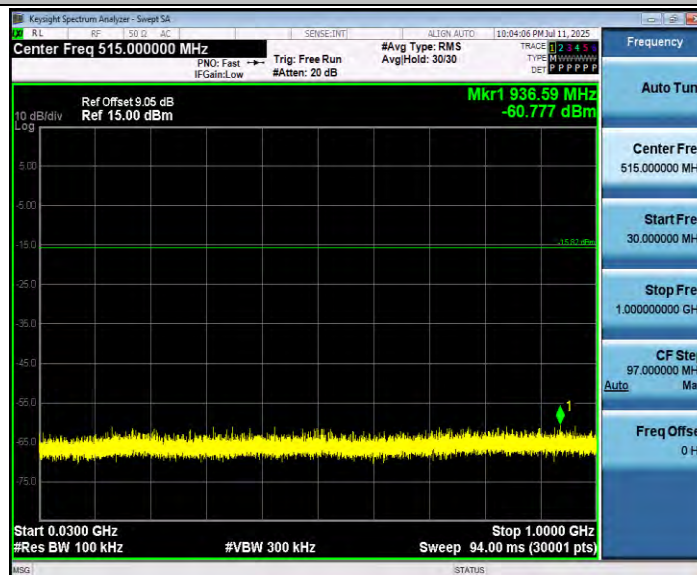
2DH1_Ant1_2402_1000~26500



2DH1_Ant1_2441_0~Reference



2DH1_Ant1_2441_30~1000



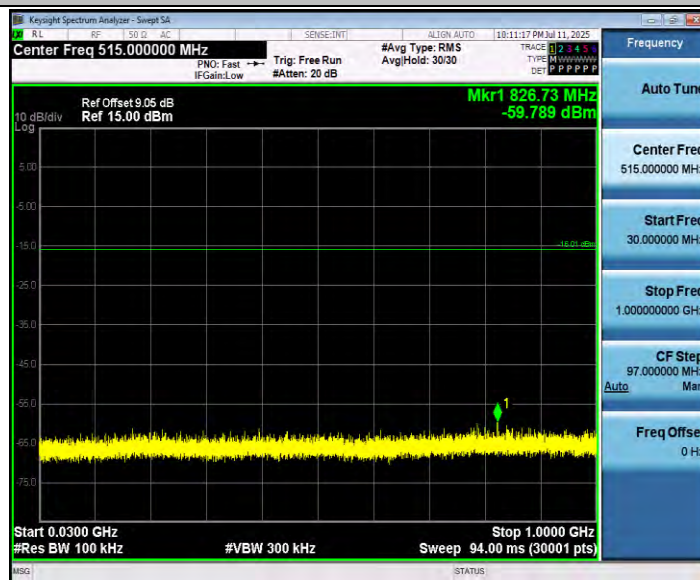
2DH1_Ant1_2441_1000~26500



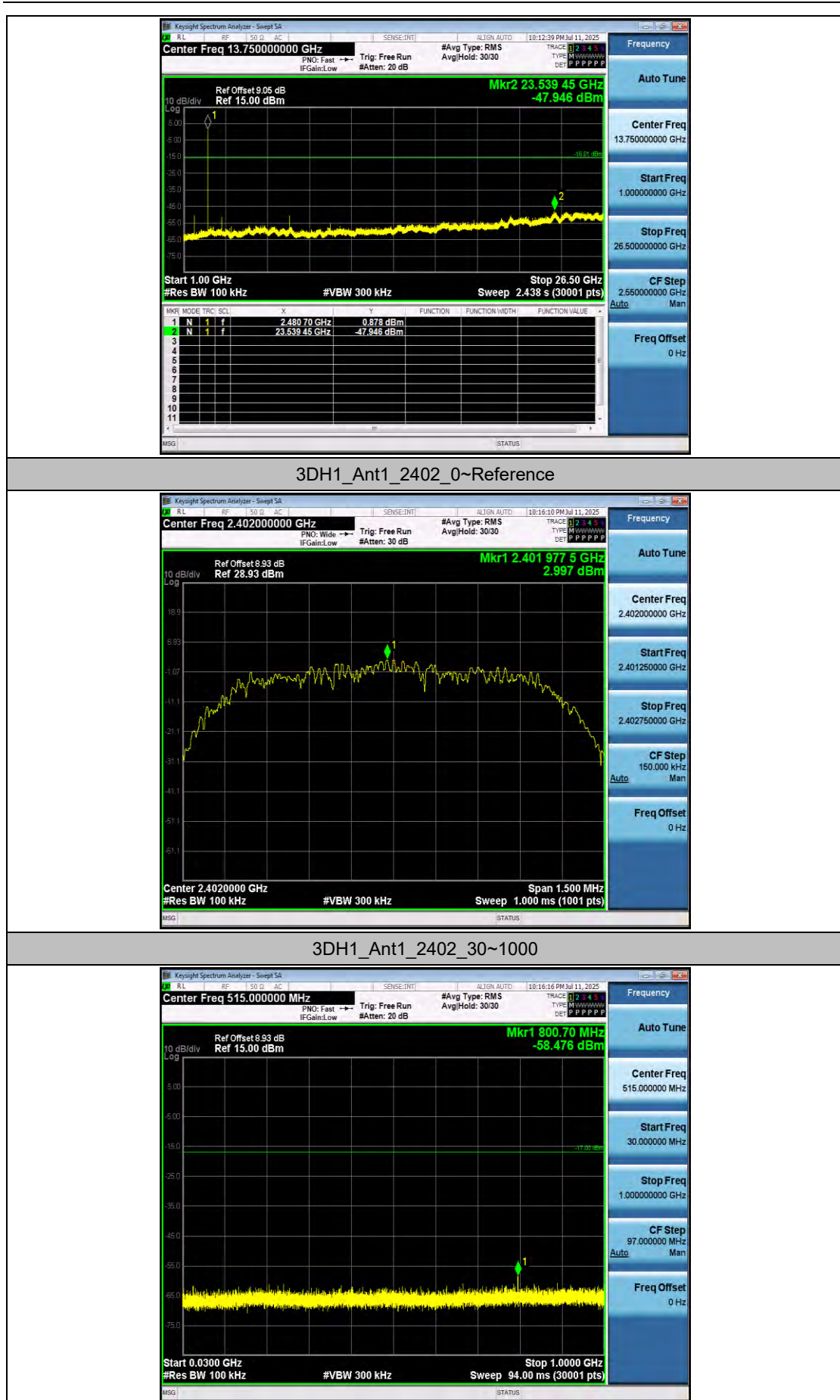
2DH1_Ant1_2480_0~Reference

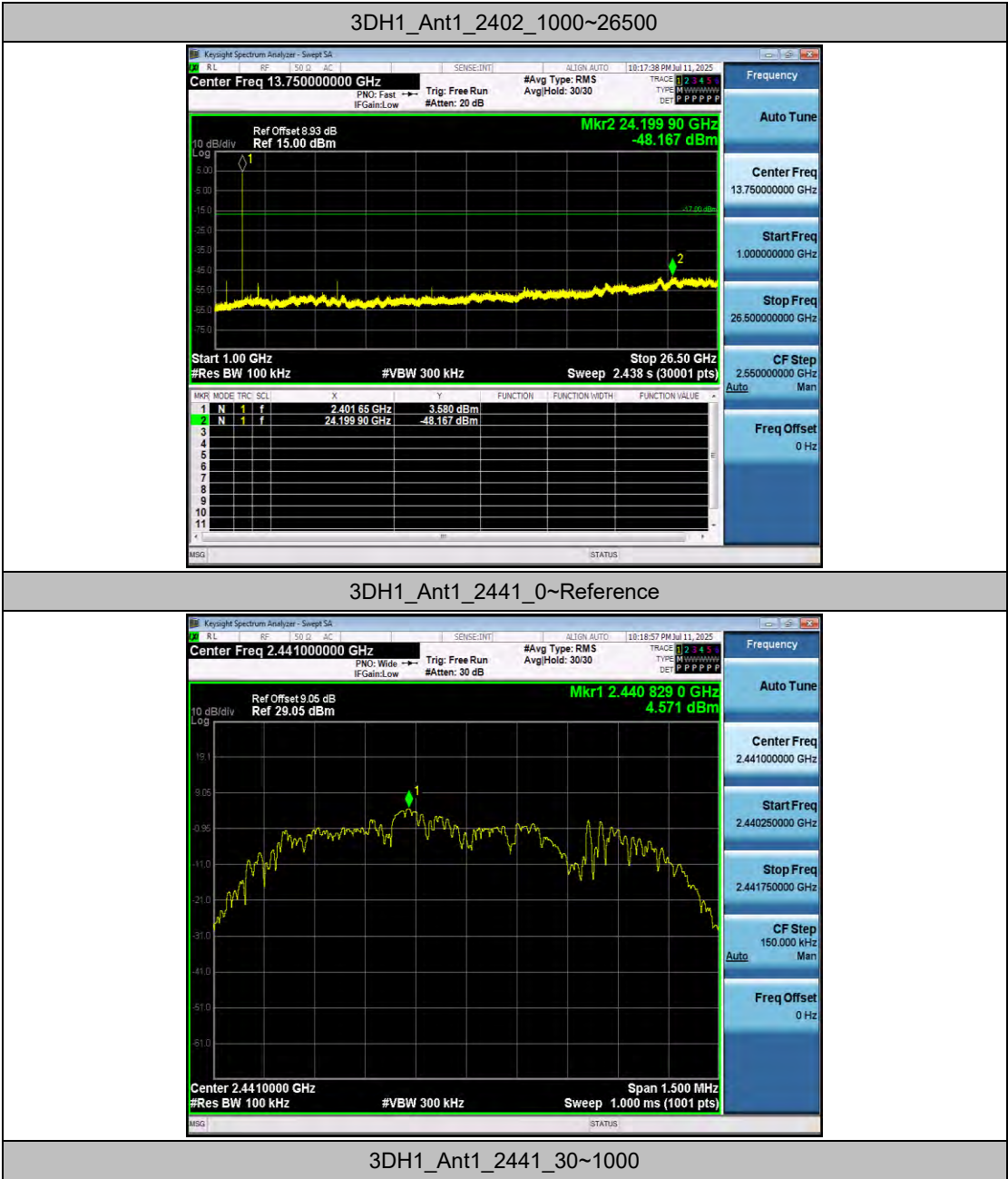


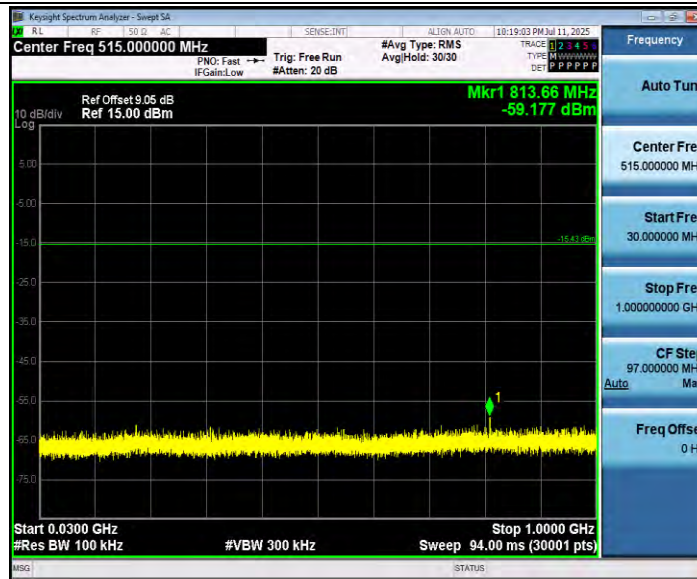
2DH1_Ant1_2480_30~1000



2DH1_Ant1_2480_1000~26500





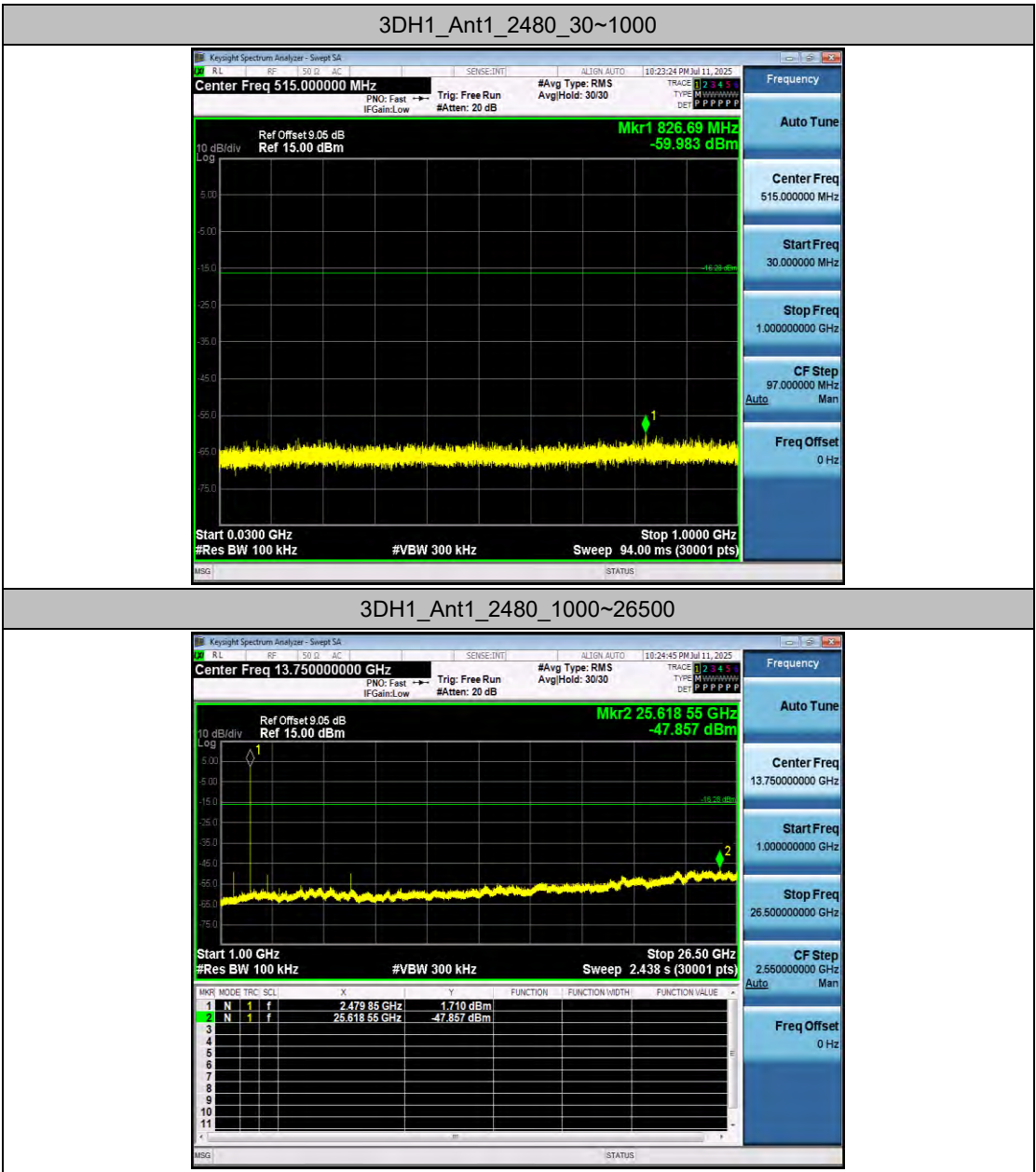


3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference





Appendix A.9: Emissions in Restricted Bands

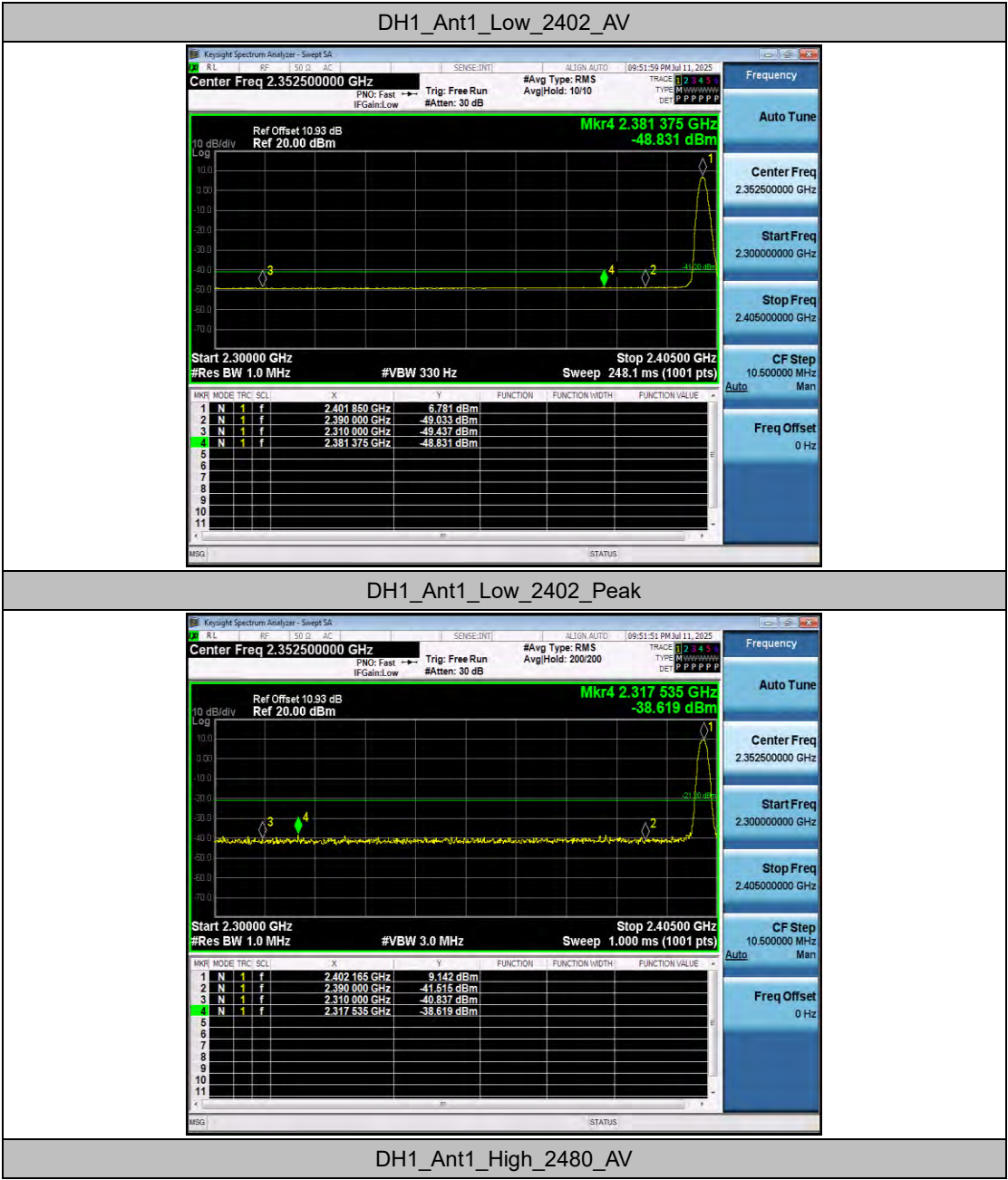
Test Result

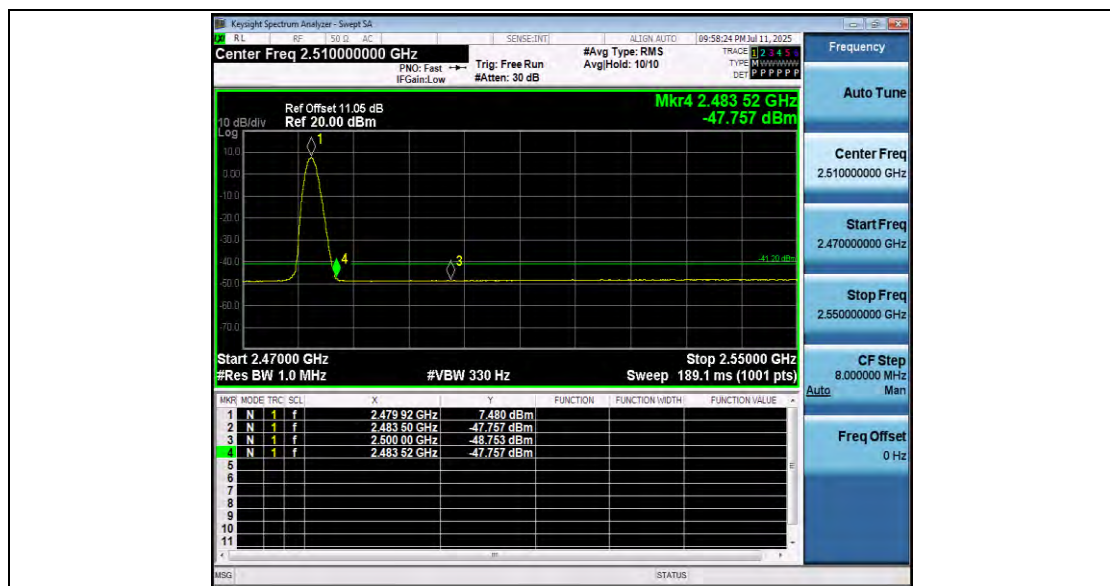
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBUV/m]	Limit [dBUV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.44	≤-41.20	45.76	≤54	PASS
				AV	2381.375	-48.83	≤-41.20	46.37	≤54	PASS
				AV	2390.000	-49.03	≤-41.20	46.17	≤54	PASS
				Peak	2310.000	-40.84	≤-21.20	54.36	≤74	PASS
				Peak	2317.535	-38.62	≤-21.20	56.58	≤74	PASS
				Peak	2390.000	-41.52	≤-21.20	53.68	≤74	PASS
		High	2480	AV	2483.500	-47.76	≤-41.20	47.44	≤54	PASS
				AV	2483.520	-47.76	≤-41.20	47.44	≤54	PASS
				AV	2500.000	-48.75	≤-41.20	46.45	≤54	PASS
				Peak	2483.500	-40.94	≤-21.20	54.26	≤74	PASS
				Peak	2498.080	-38.63	≤-21.20	56.57	≤74	PASS
				Peak	2500.000	-41.74	≤-21.20	53.46	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.38	≤-41.20	45.82	≤54	PASS
				AV	2389.145	-48.85	≤-41.20	46.35	≤54	PASS
				AV	2390.000	-49	≤-41.20	46.20	≤54	PASS
				Peak	2310.000	-42.46	≤-21.20	52.74	≤74	PASS
				Peak	2348.510	-38.85	≤-21.20	56.35	≤74	PASS
				Peak	2390.000	-42.39	≤-21.20	52.81	≤74	PASS
		High	2480	AV	2483.500	-47.7	≤-41.20	47.50	≤54	PASS
				AV	2483.520	-47.7	≤-41.20	47.50	≤54	PASS
				AV	2500.000	-48.72	≤-41.20	46.48	≤54	PASS
				Peak	2483.500	-40.65	≤-21.20	54.55	≤74	PASS
				Peak	2495.280	-38.09	≤-21.20	57.11	≤74	PASS
				Peak	2500.000	-39.69	≤-21.20	55.51	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.43	≤-41.20	45.77	≤54	PASS
				AV	2389.040	-48.87	≤-41.20	46.33	≤54	PASS
				AV	2390.000	-48.92	≤-41.20	46.28	≤54	PASS
				Peak	2310.000	-42.16	≤-21.20	53.04	≤74	PASS
				Peak	2345.570	-38.99	≤-21.20	56.21	≤74	PASS
				Peak	2390.000	-41.08	≤-21.20	54.12	≤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	-48.77	≤-41.20	46.43	≤54	PASS
				Peak	2483.500	-41.02	≤-21.20	54.18	≤74	PASS
				Peak	2496.080	-39.01	≤-21.20	56.19	≤74	PASS
				Peak	2500.000	-39.84	≤-21.20	55.36	≤74	PASS

Note:

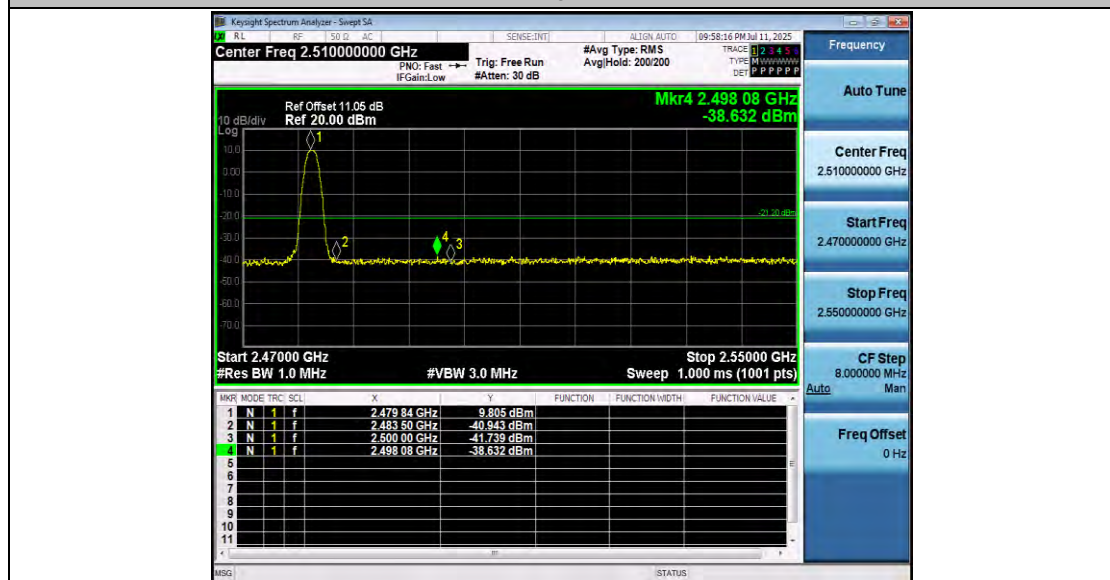
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

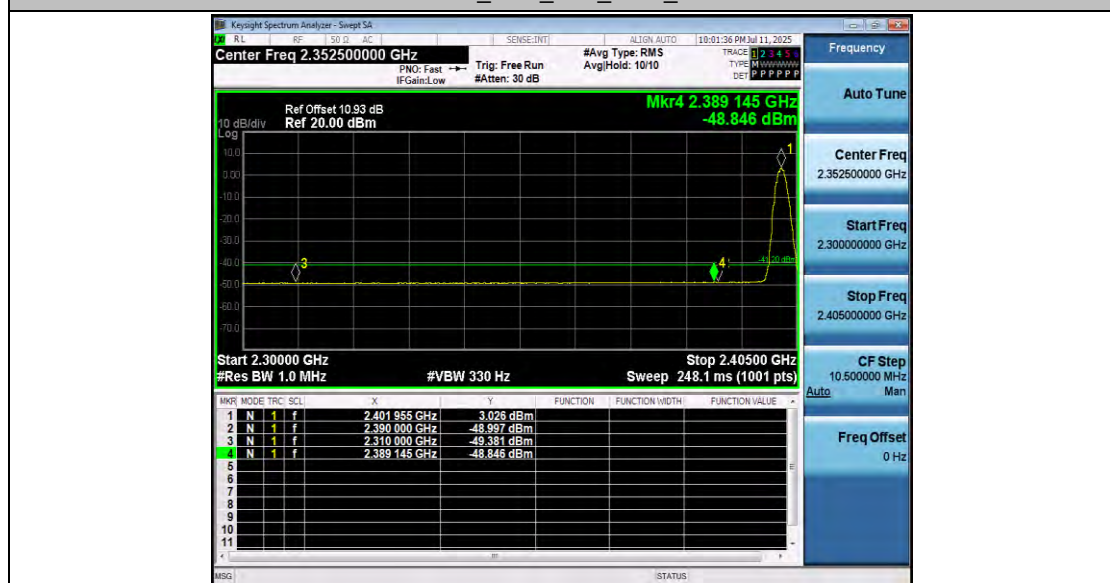




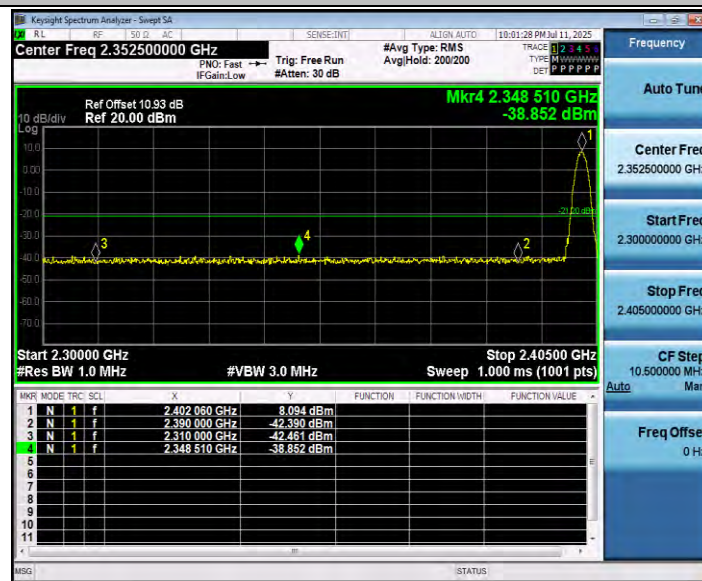
DH1_Ant1_High_2480_Peak



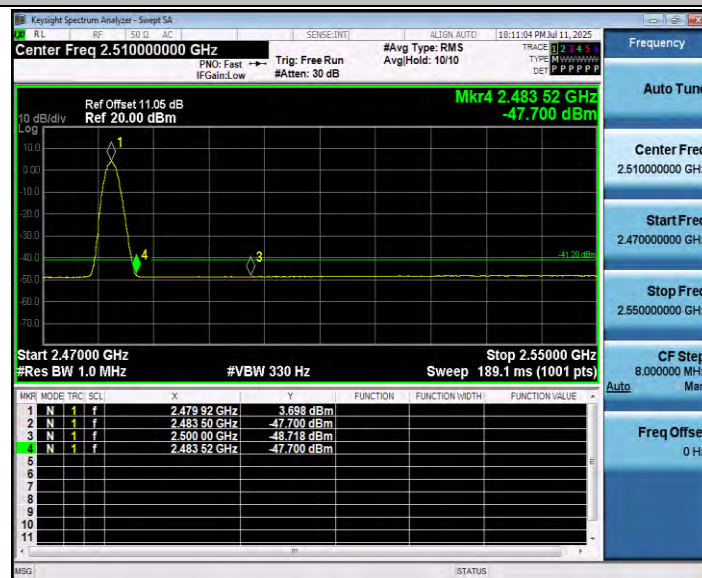
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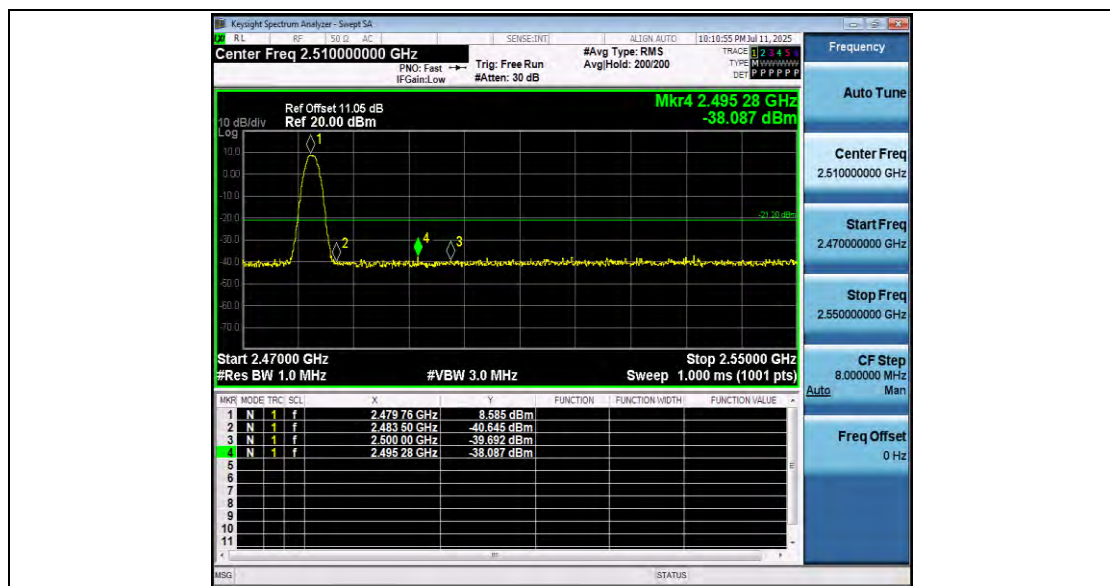
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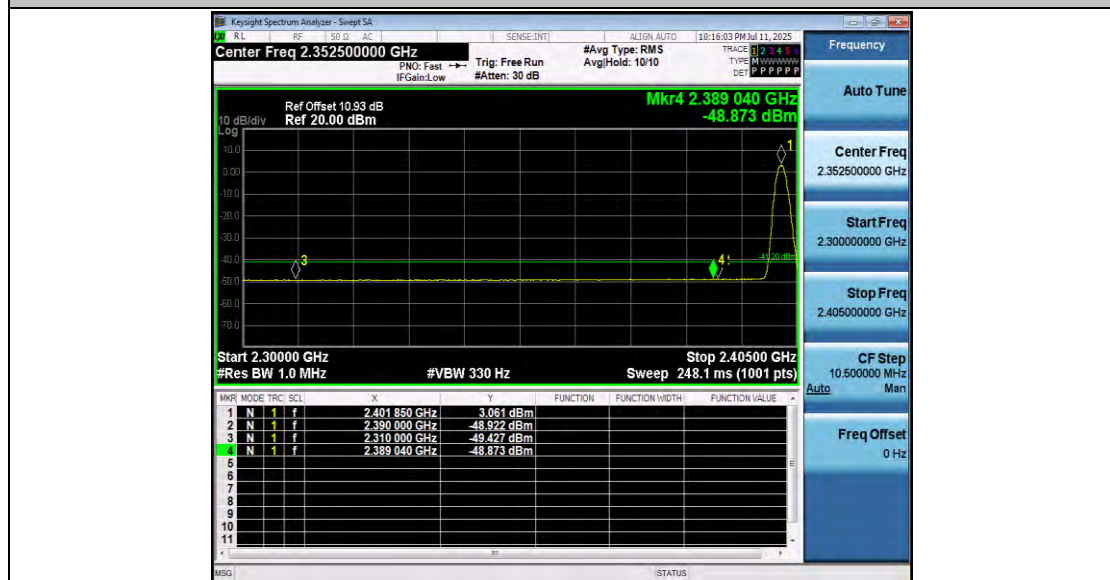
2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak



3DH1_Ant1_Low_2402_AV



3DH1_Ant1_Low_2402_Peak

