

Case No. : <u>GTS20250923006-1-01</u>
Ambient Condition: <u>22</u> °C, <u>48</u> %RH
According Standard: ■Part15C
Test Date: <u>2025.10.14-2025.11.18</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	0.861	2401.559	2402.420	---	---
		2441	0.858	2440.571	2441.429	---	---
		2480	0.840	2479.559	2480.399	---	---
2DH1	Ant1	2402	1.257	2401.379	2402.636	---	---
		2441	1.251	2440.382	2441.633	---	---
		2480	1.212	2479.403	2480.615	---	---
3DH1	Ant1	2402	1.215	2401.418	2402.633	---	---
		2441	1.224	2440.412	2441.636	---	---
		2480	1.218	2479.412	2480.630	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



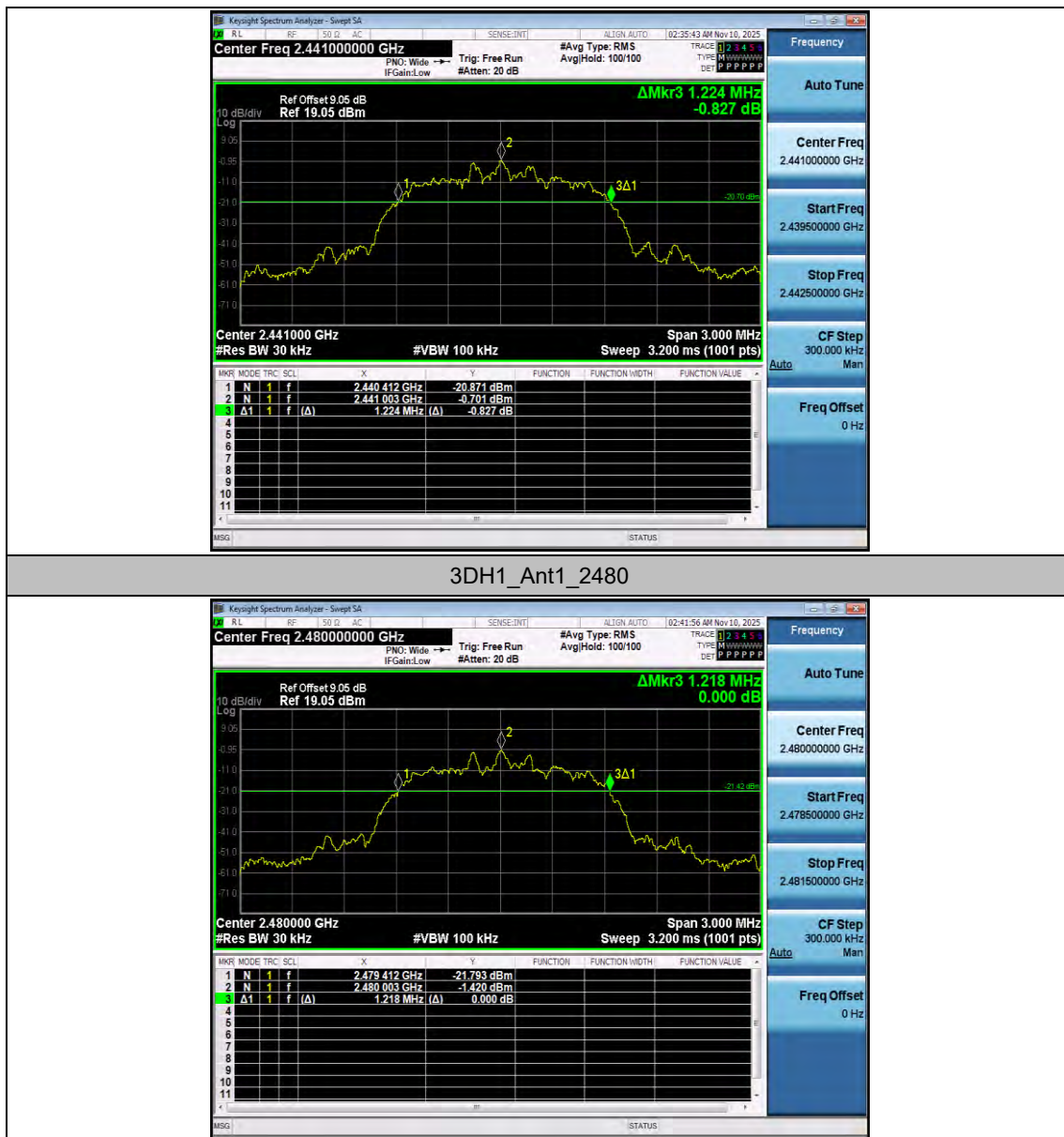
2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



AppendixA.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.81167	2401.6049	2402.4166	---	---
		2441	0.83311	2440.5933	2441.4264	---	---
		2480	0.82351	2479.5998	2480.4233	---	---
2DH1	Ant1	2402	1.1629	2401.4259	2402.5888	---	---
		2441	1.1569	2440.4262	2441.5831	---	---
		2480	1.1597	2479.4260	2480.5857	---	---
3DH1	Ant1	2402	1.1444	2401.4473	2402.5917	---	---
		2441	1.1483	2440.4468	2441.5951	---	---
		2480	1.1465	2479.4446	2480.5911	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



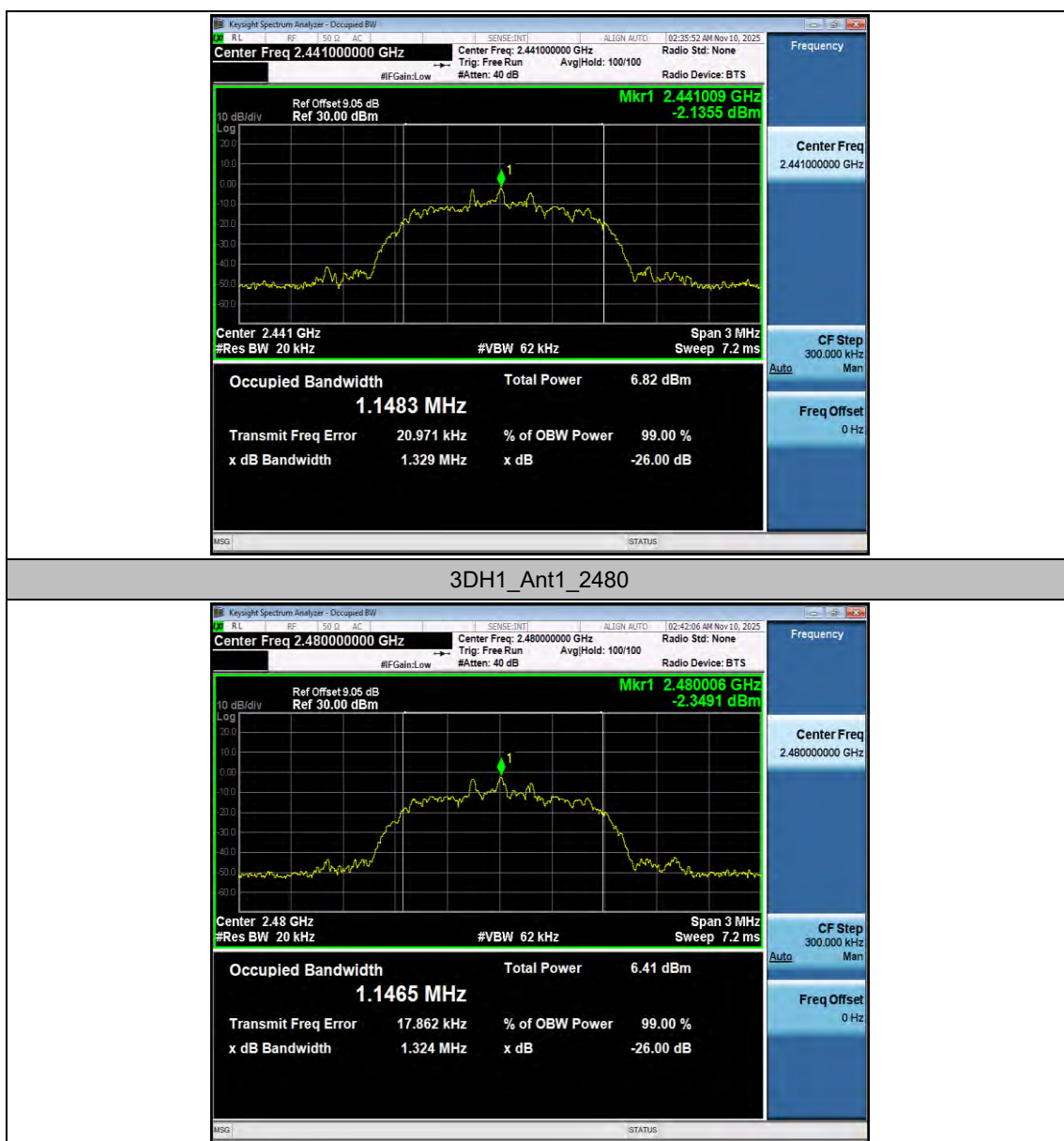
2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



AppendixA.3: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	0.22	≤20.97	PASS
		2441	1.27	≤20.97	PASS
		2480	0.63	≤20.97	PASS
2DH1	Ant1	2402	1.07	≤20.97	PASS
		2441	2.10	≤20.97	PASS
		2480	1.61	≤20.97	PASS
3DH1	Ant1	2402	1.55	≤20.97	PASS
		2441	2.61	≤20.97	PASS
		2480	2.02	≤20.97	PASS

AppendixA.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.998	≥ 0.574	PASS
		Hop_2441	1.004	≥ 0.574	PASS
		Hop_2480	0.996	≥ 0.574	PASS
2DH1	Ant1	Hop_2402	0.998	≥ 0.838	PASS
		Hop_2441	1.006	≥ 0.838	PASS
		Hop_2480	0.998	≥ 0.838	PASS
3DH1	Ant1	Hop_2402	0.992	≥ 0.816	PASS
		Hop_2441	1.316	≥ 0.816	PASS
		Hop_2480	1	≥ 0.816	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

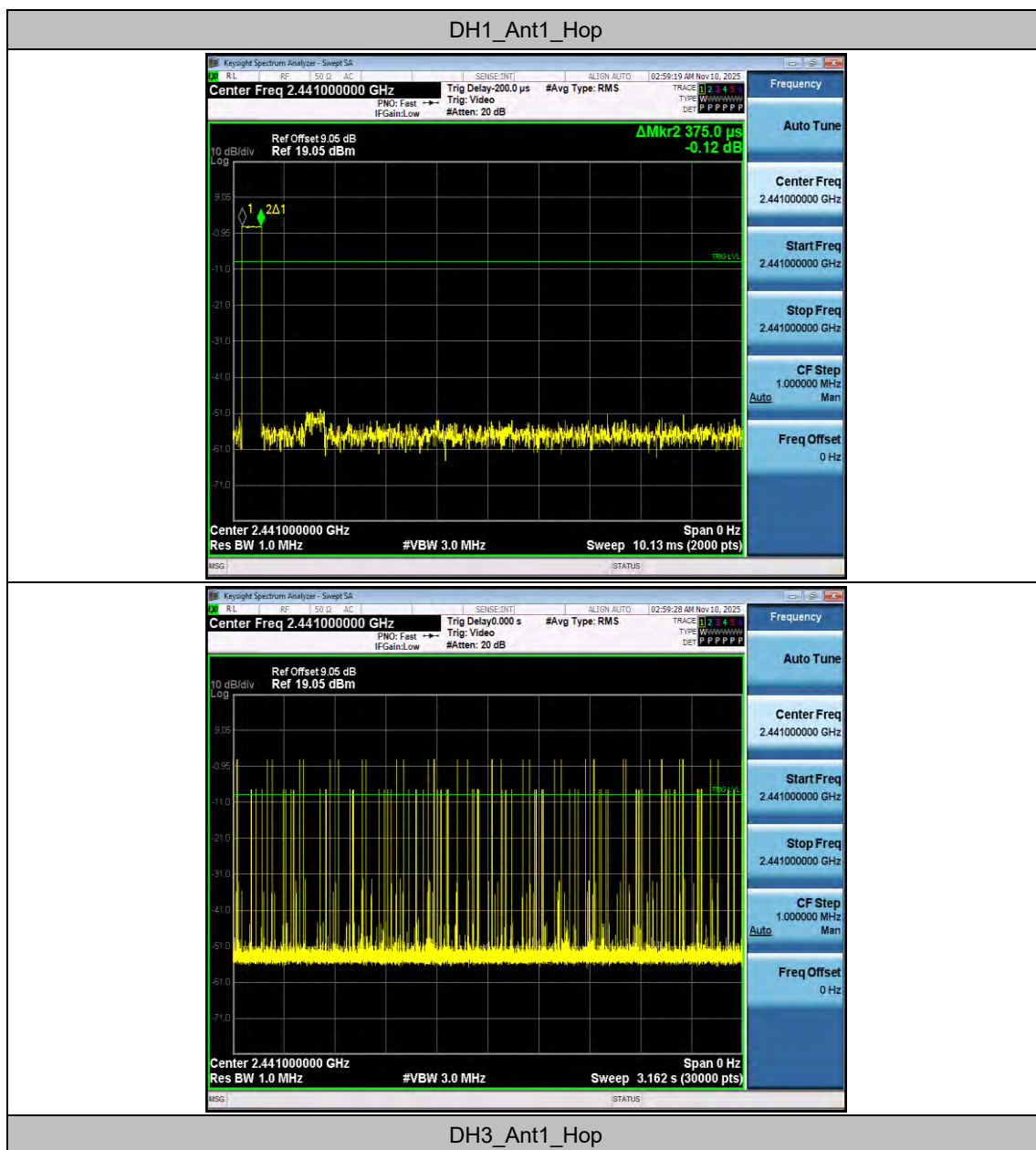


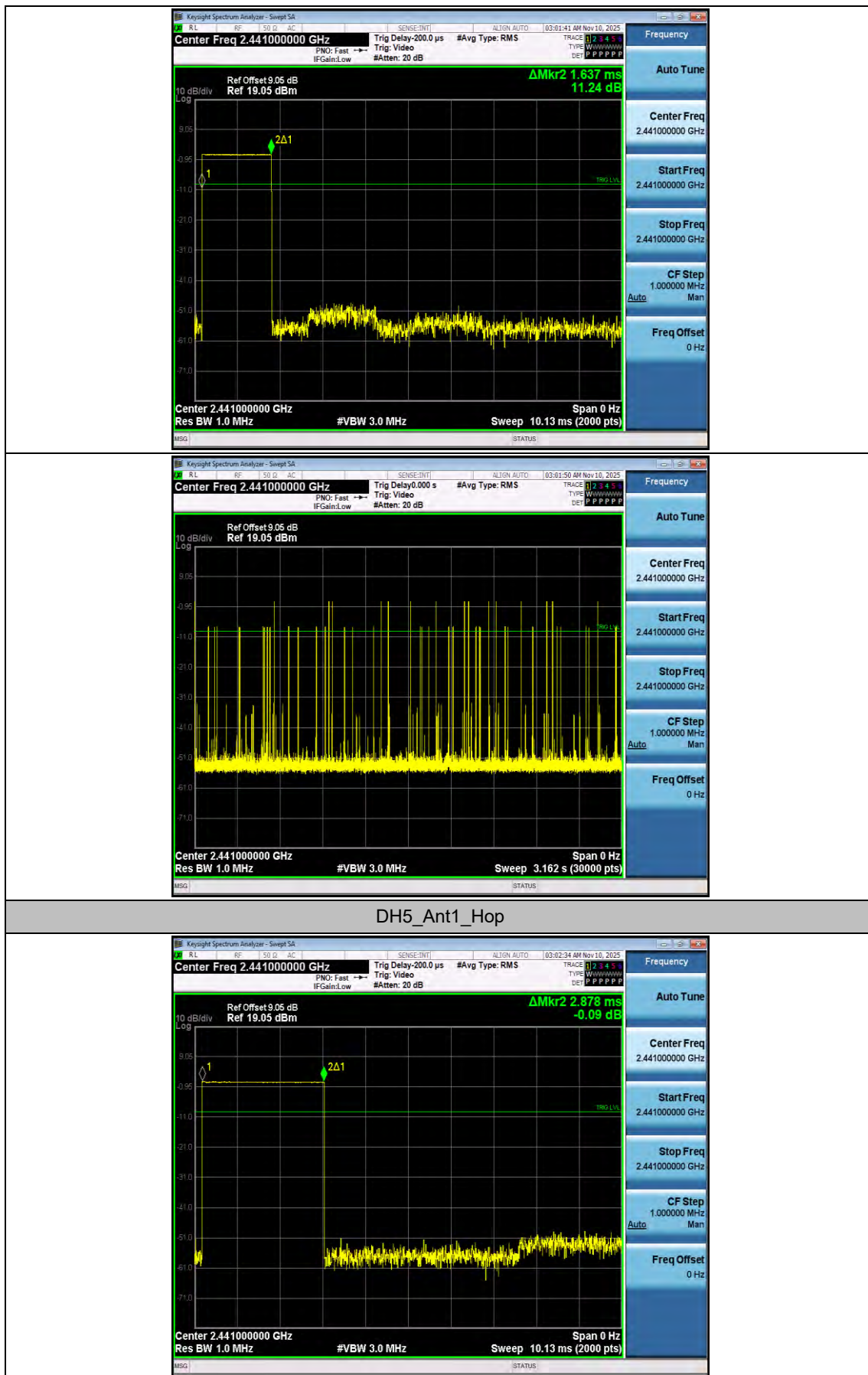
AppendixA.5: Time of occupancy

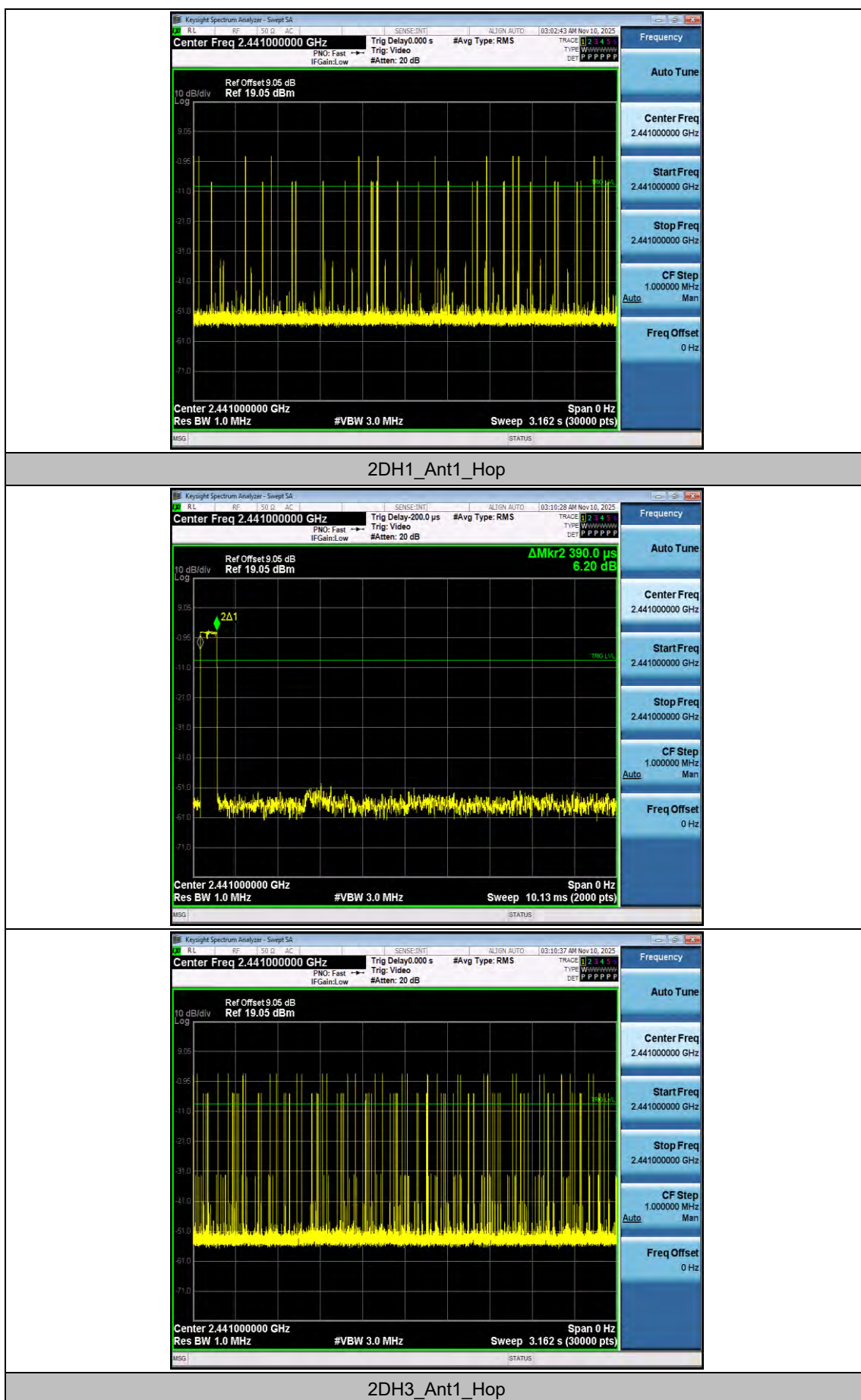
Test Result

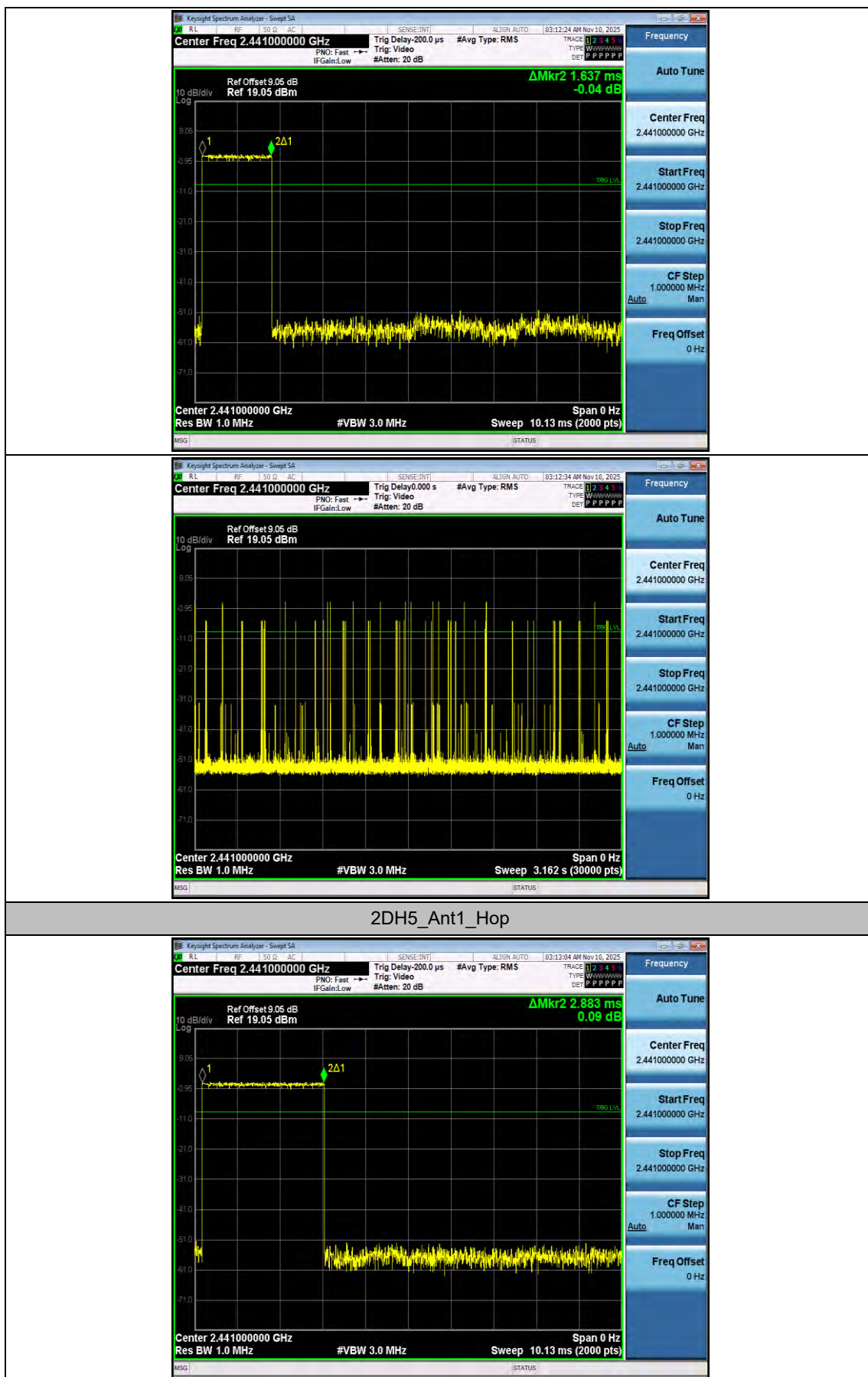
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.375	330	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.637	160	0.262	≤0.4	PASS
DH5	Ant1	Hop	2.878	130	0.374	≤0.4	PASS
2DH1	Ant1	Hop	0.390	320	0.125	≤0.4	PASS
2DH3	Ant1	Hop	1.637	150	0.246	≤0.4	PASS
2DH5	Ant1	Hop	2.883	120	0.346	≤0.4	PASS
3DH1	Ant1	Hop	0.375	330	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.637	190	0.311	≤0.4	PASS
3DH5	Ant1	Hop	2.883	90	0.259	≤0.4	PASS

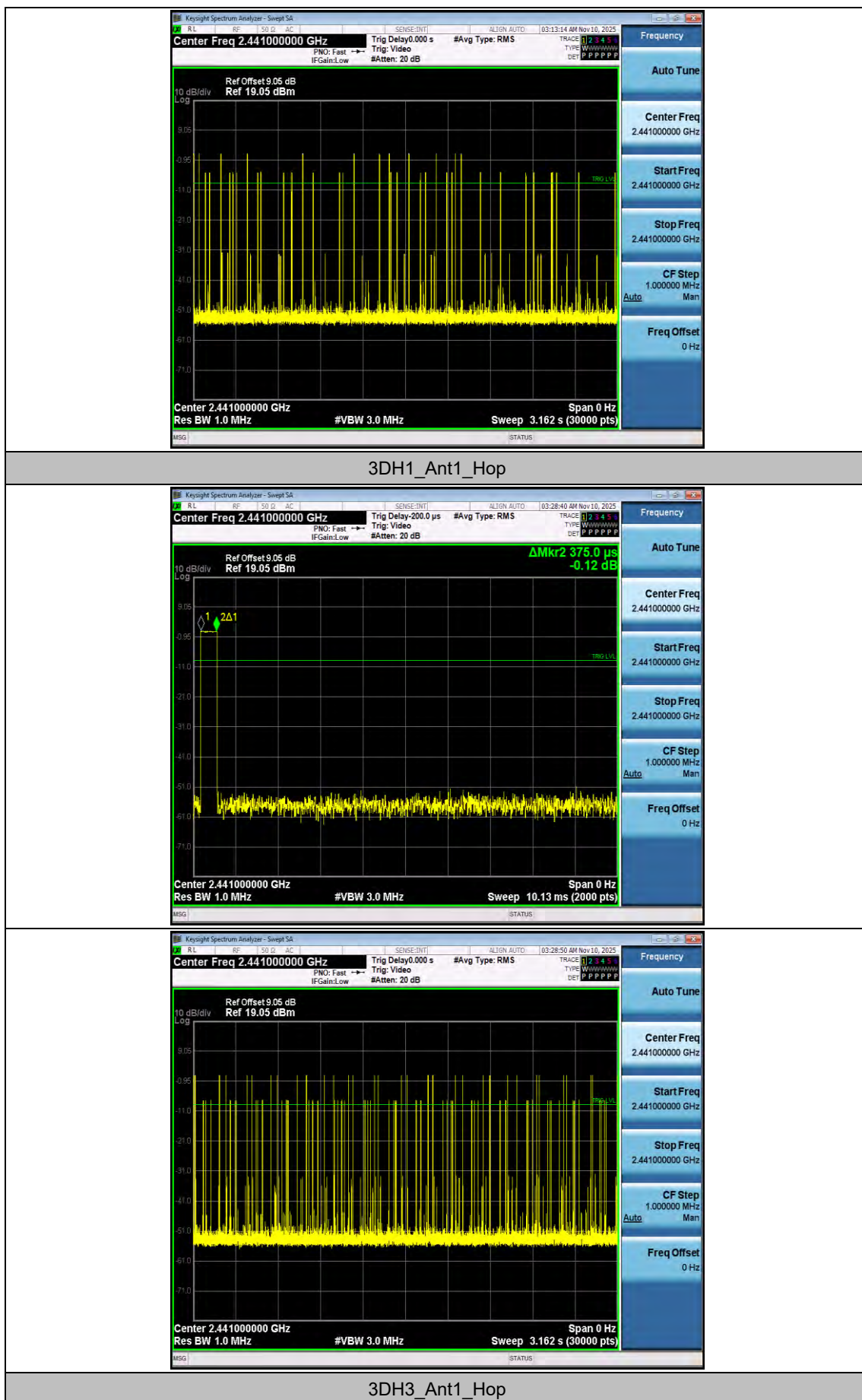
Test Graphs

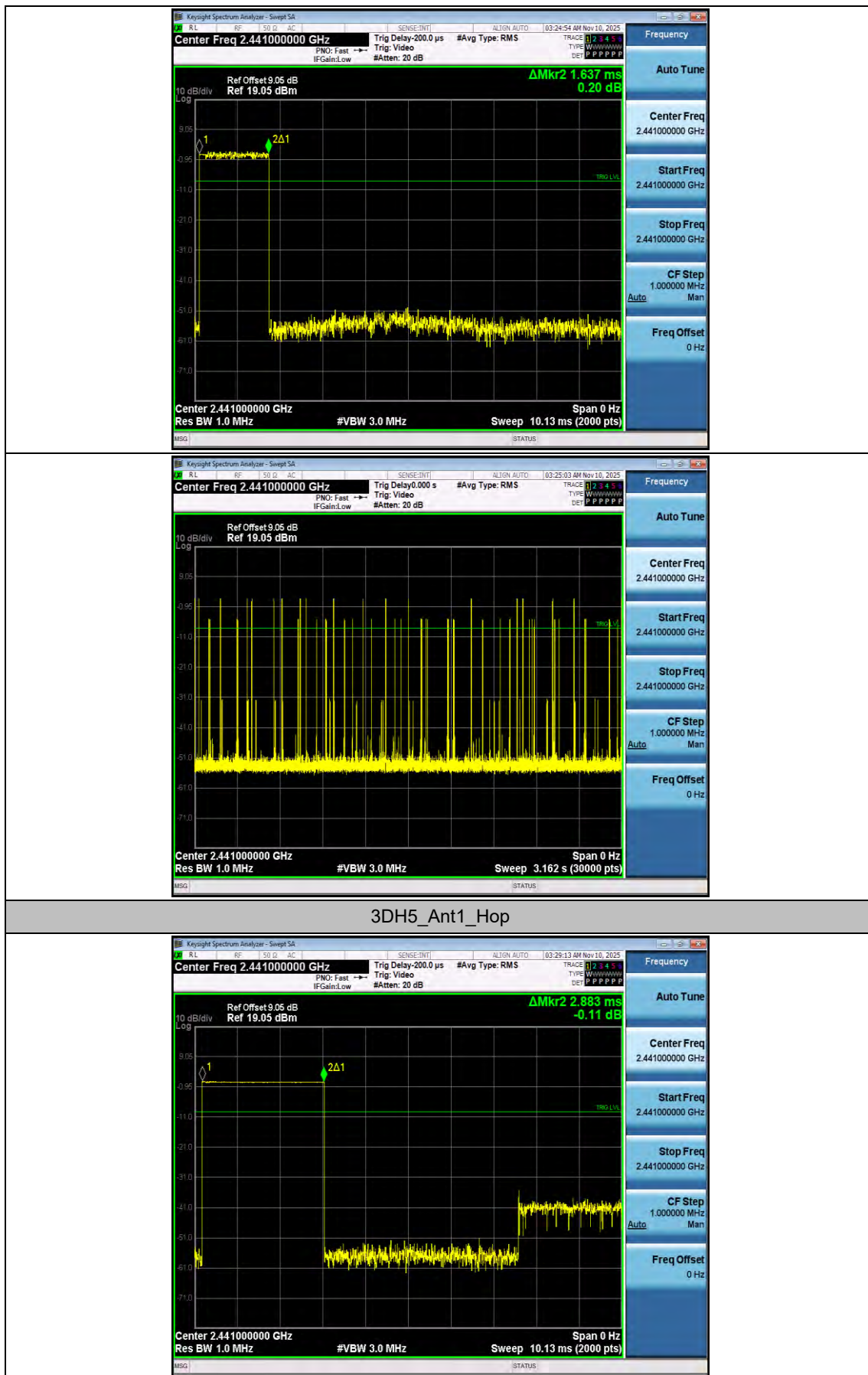










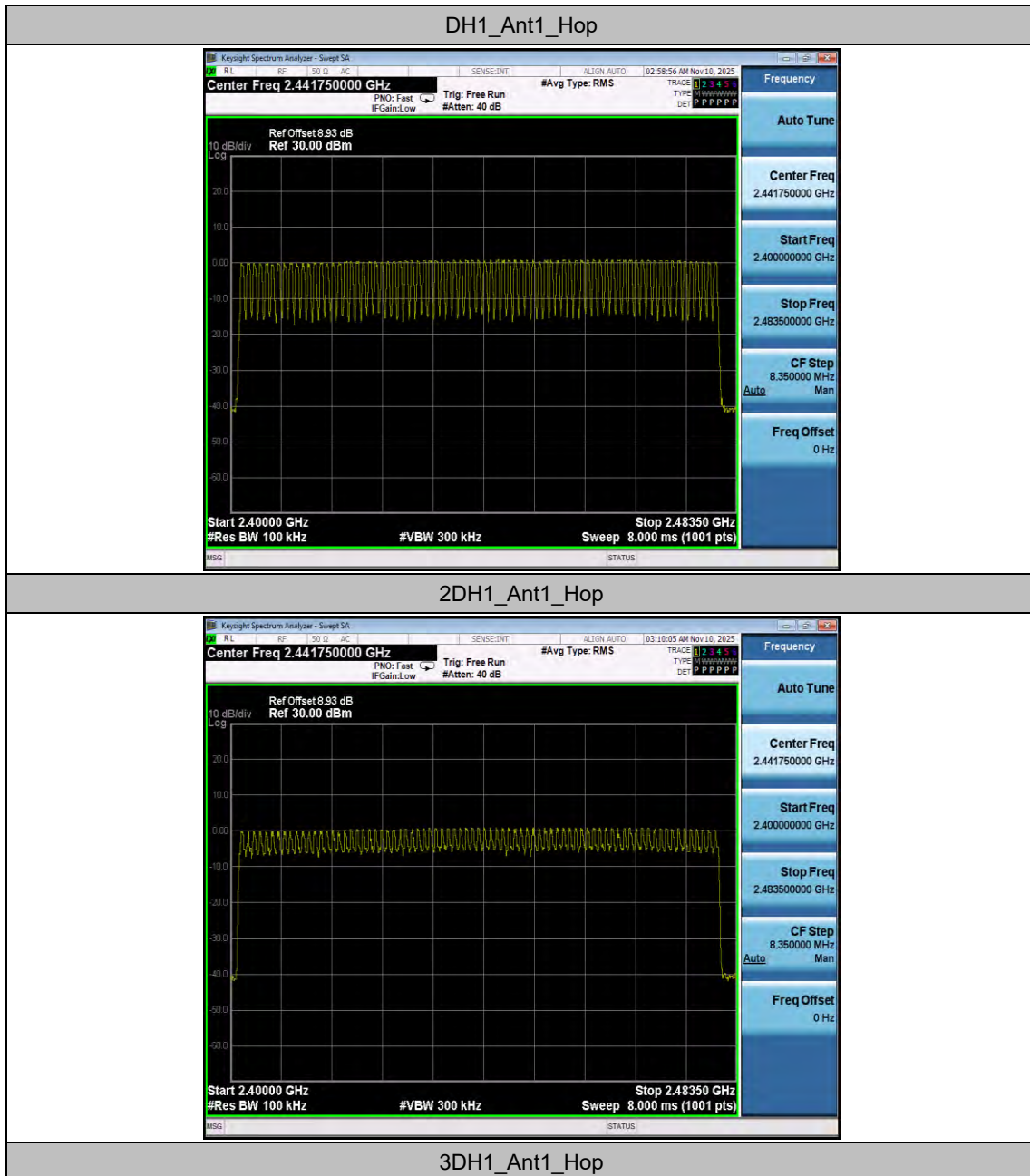


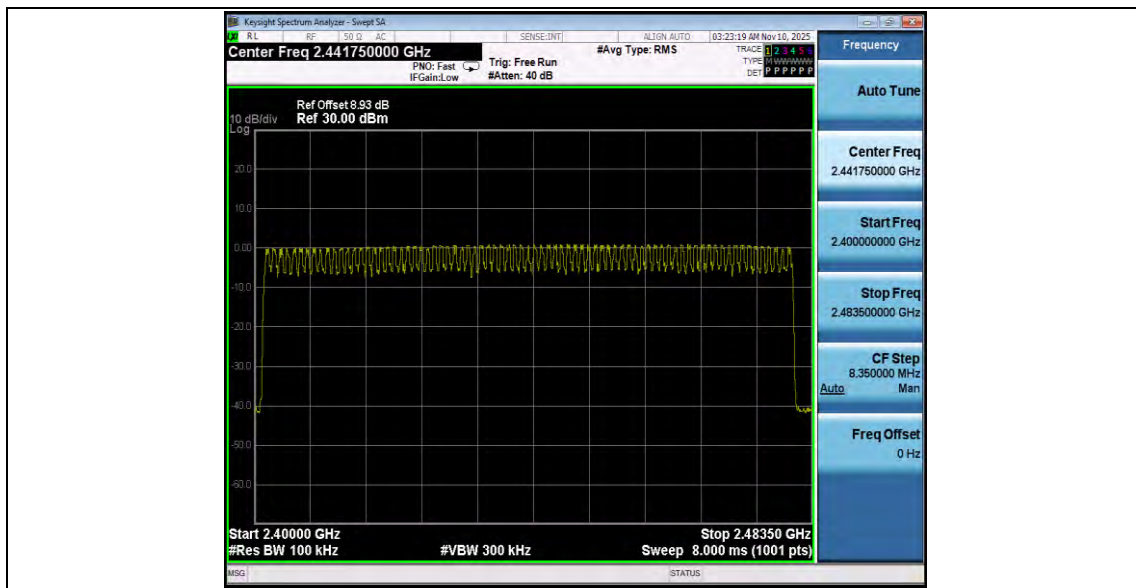


AppendixA.6: Number of hopping channels**Test Result**

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





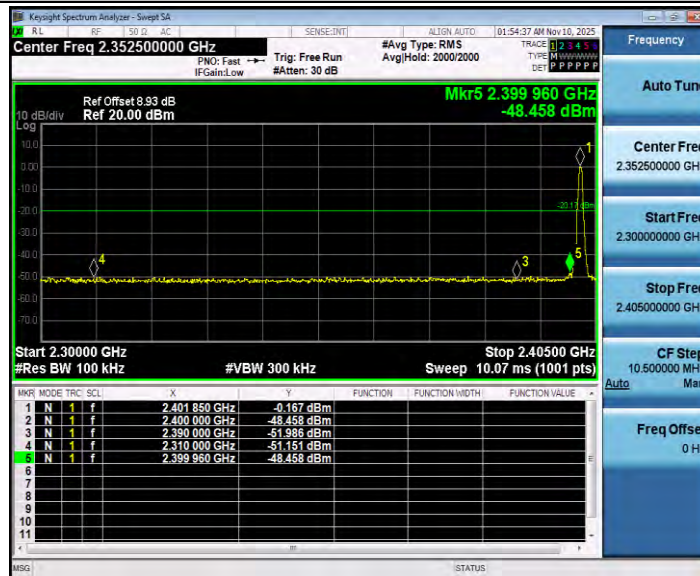
Appendix A.7: Band edge measurements

Test Result

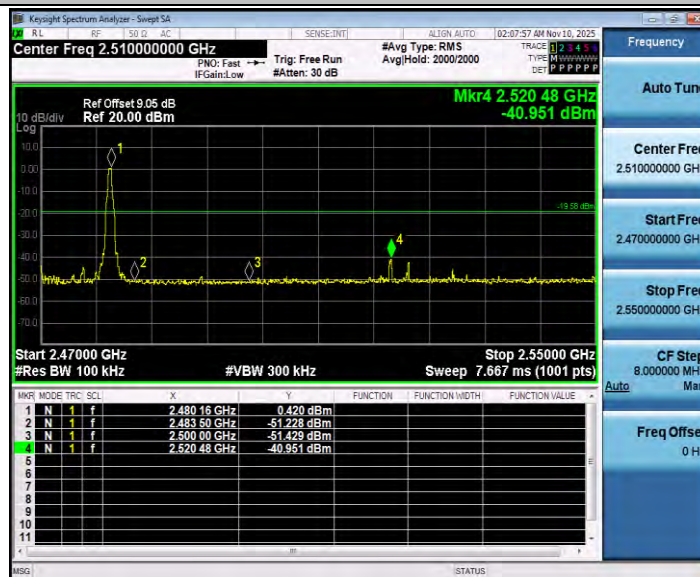
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	-0.17	-48.46	≤ -20.17	PASS
		High	2480	0.42	-40.95	≤ -19.58	PASS
		Low	Hop_2402	-0.18	-49.06	≤ -20.18	PASS
		High	Hop_2480	0.15	-49.08	≤ -19.85	PASS
2DH1	Ant1	Low	2402	-0.16	-48.2	≤ -20.16	PASS
		High	2480	0.36	-48.7	≤ -19.64	PASS
		Low	Hop_2402	-0.25	-49.52	≤ -20.25	PASS
		High	Hop_2480	-0.15	-48.53	≤ -20.15	PASS
3DH1	Ant1	Low	2402	-0.14	-49.09	≤ -20.14	PASS
		High	2480	0.40	-42.97	≤ -19.6	PASS
		Low	Hop_2402	-0.30	-49.42	≤ -20.3	PASS
		High	Hop_2480	0.19	-49.2	≤ -19.81	PASS

Test Graphs

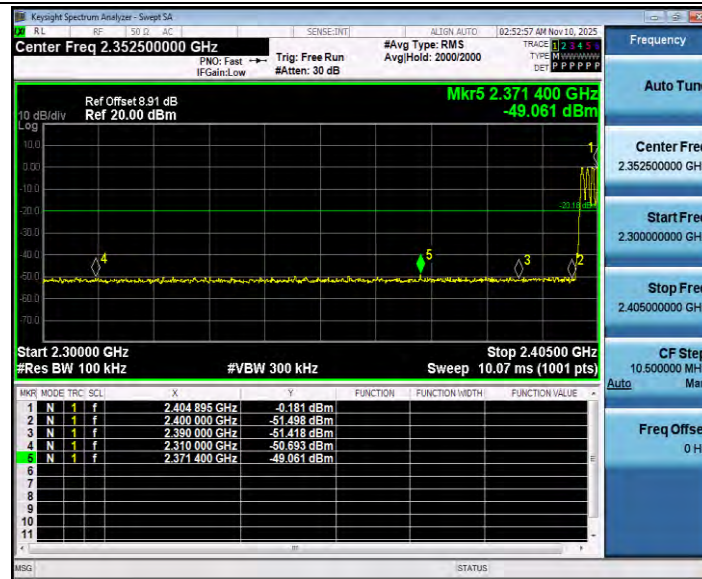
DH1_Ant1_Low_2402



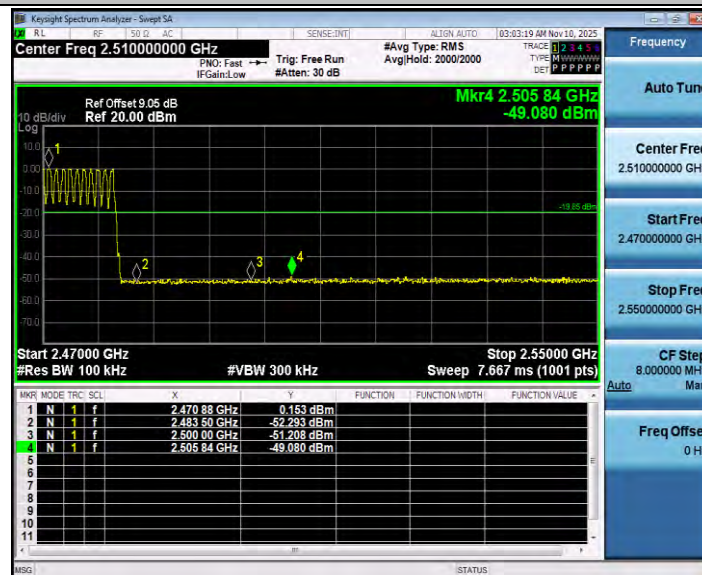
DH1_Ant1_High_2480



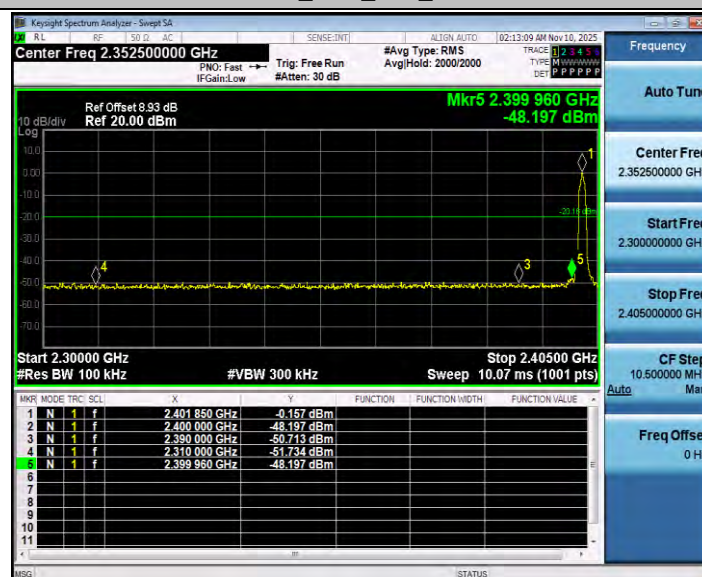
DH1_Ant1_Low_Hop_2402



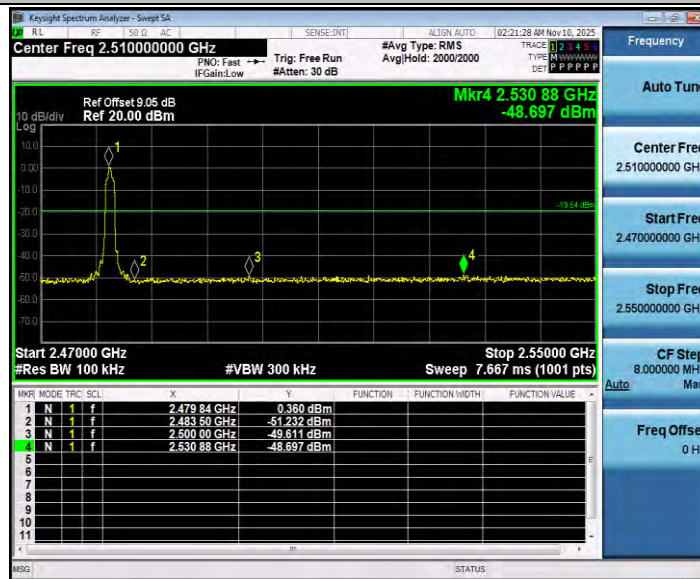
DH1_Ant1_High_Hop_2480



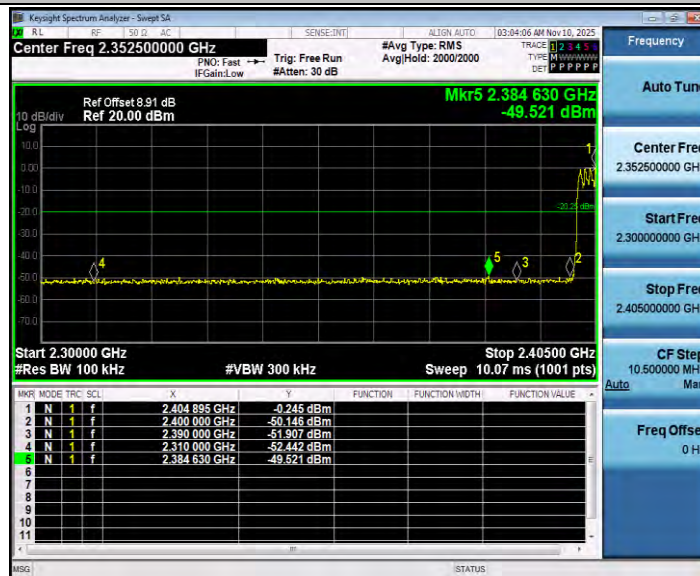
2DH1_Ant1_Low_2402



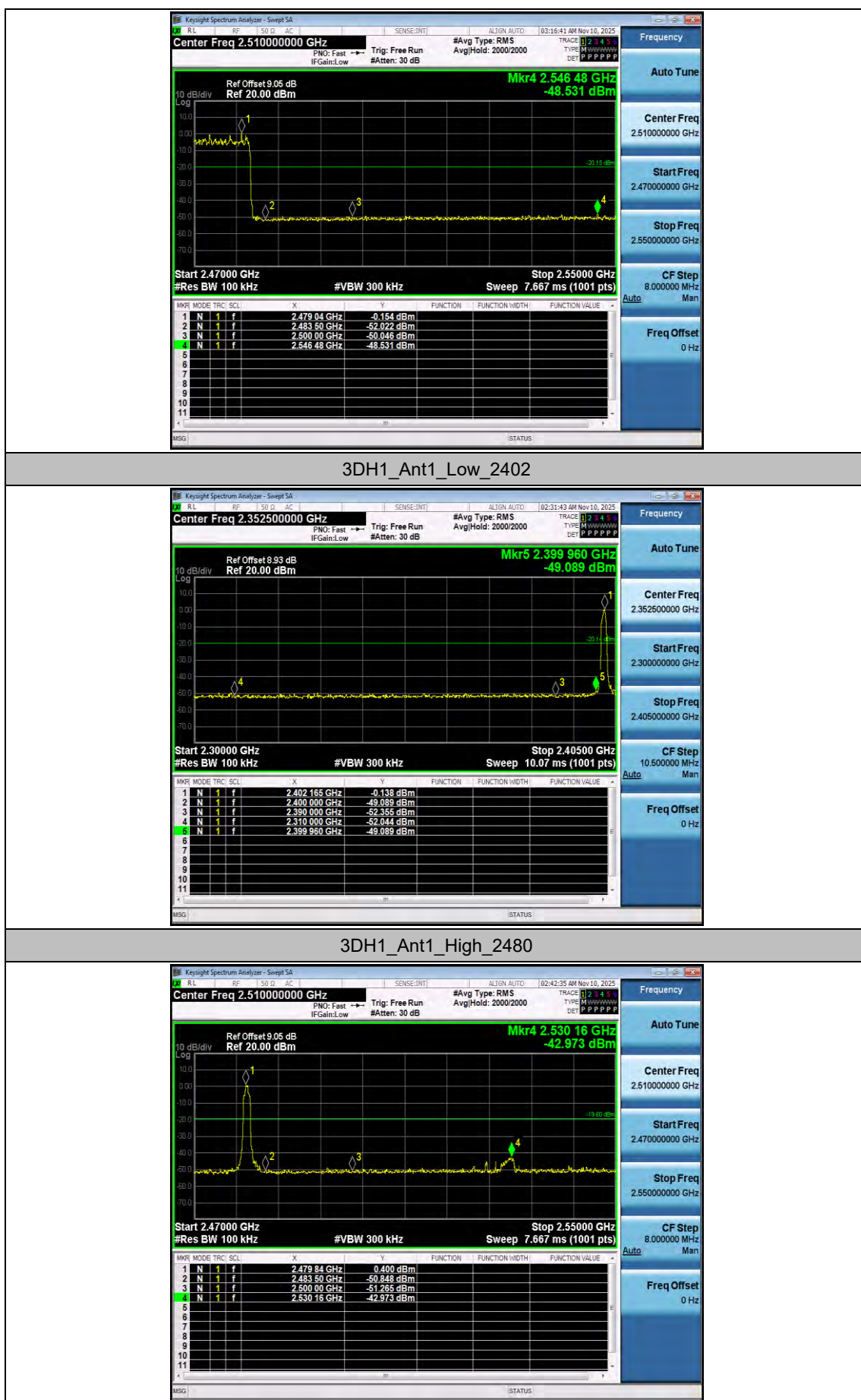
2DH1_Ant1_High_2480



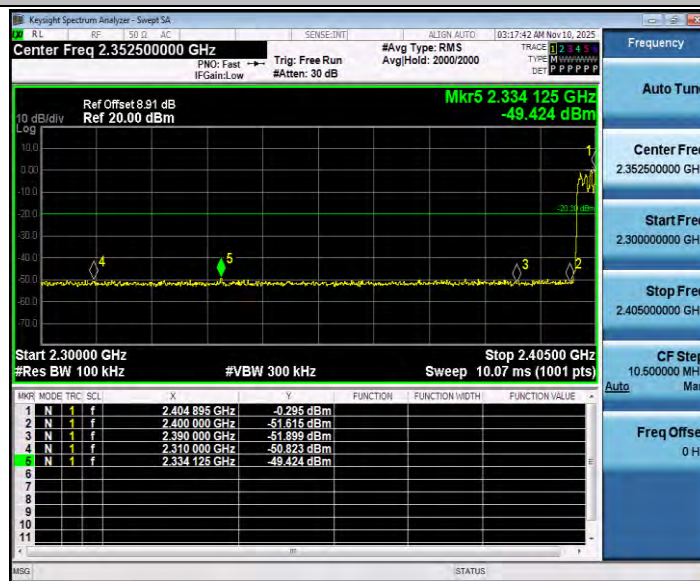
2DH1_Ant1_Low_Hop_2402



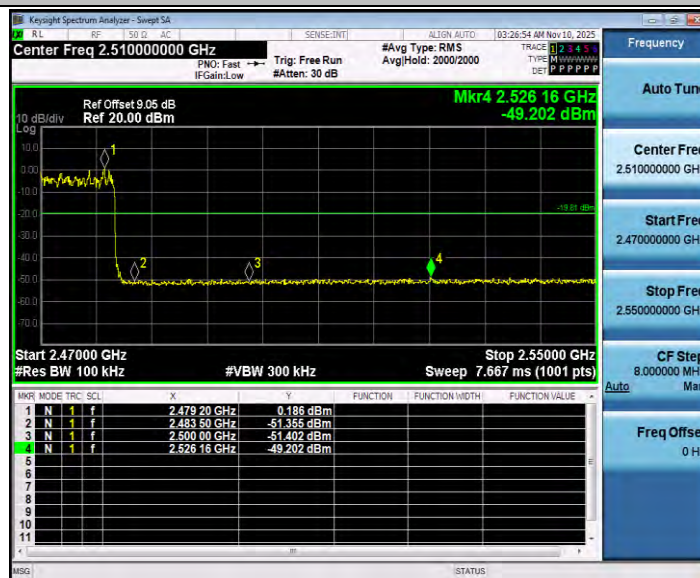
2DH1_Ant1_High_Hop_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

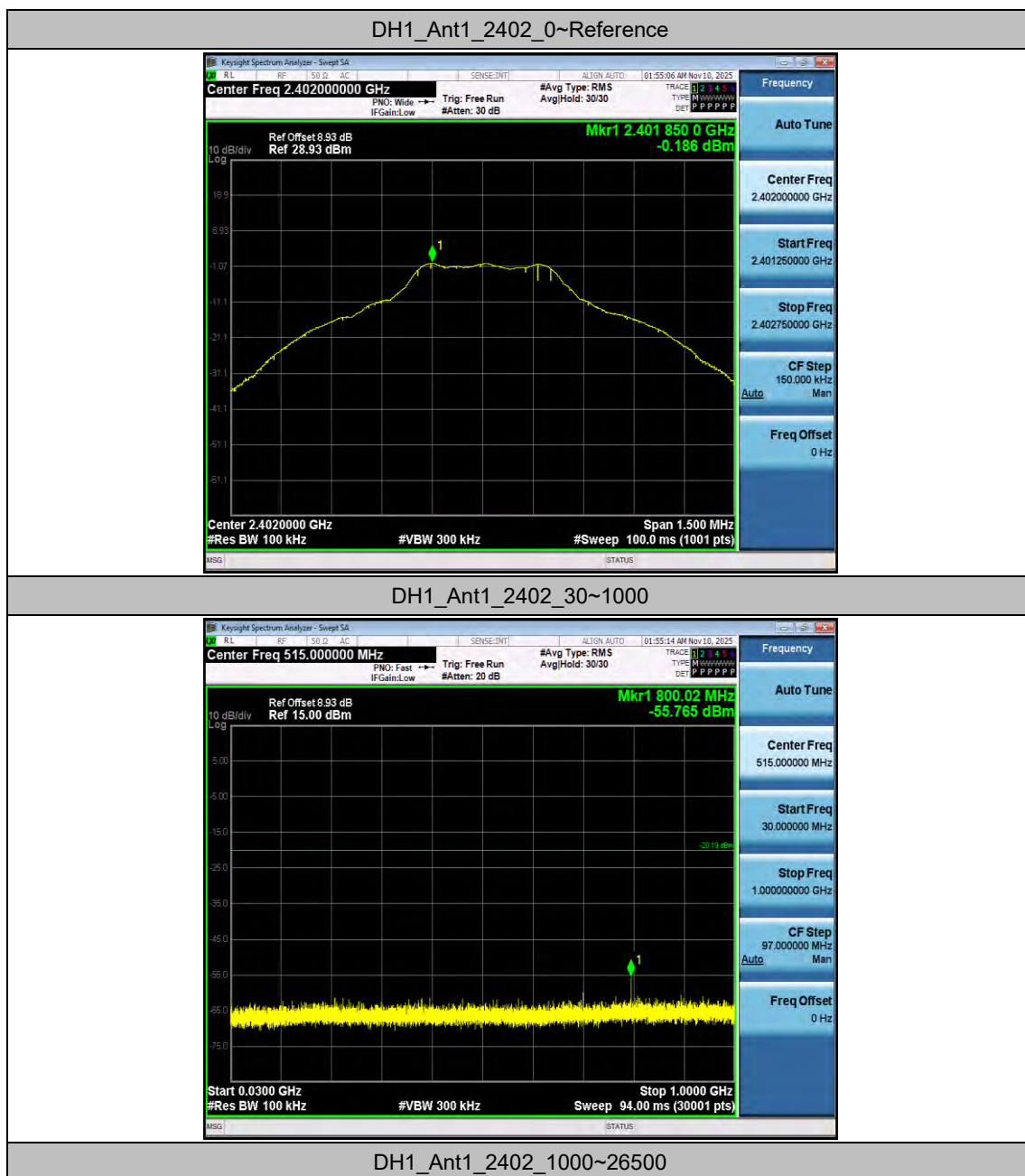


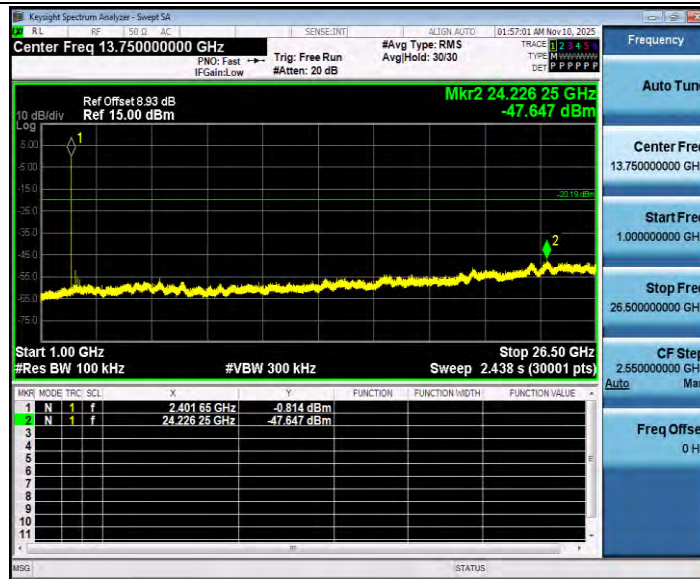
Appendix A.8: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	-0.19	-0.19	---	PASS
			30~1000	-0.19	-55.77	≤-20.19	PASS
			1000~26500	-0.19	-47.65	≤-20.19	PASS
		2441	Reference	0.92	0.92	---	PASS
			30~1000	0.92	-56.33	≤-19.08	PASS
			1000~26500	0.92	-46.29	≤-19.08	PASS
		2480	Reference	0.34	0.34	---	PASS
			30~1000	0.34	-56.24	≤-19.66	PASS
			1000~26500	0.34	-46.77	≤-19.66	PASS
2DH1	Ant1	2402	Reference	-0.18	-0.18	---	PASS
			30~1000	-0.18	-56.07	≤-20.18	PASS
			1000~26500	-0.18	-47.79	≤-20.18	PASS
		2441	Reference	0.88	0.88	---	PASS
			30~1000	0.88	-55.6	≤-19.12	PASS
			1000~26500	0.88	-48.12	≤-19.12	PASS
		2480	Reference	0.34	0.34	---	PASS
			30~1000	0.34	-55.66	≤-19.66	PASS
			1000~26500	0.34	-47.61	≤-19.66	PASS
3DH1	Ant1	2402	Reference	-0.19	-0.19	---	PASS
			30~1000	-0.19	-55.66	≤-20.19	PASS
			1000~26500	-0.19	-47.79	≤-20.19	PASS
		2441	Reference	0.89	0.89	---	PASS
			30~1000	0.89	-56.85	≤-19.11	PASS
			1000~26500	0.89	-47.4	≤-19.11	PASS
		2480	Reference	0.33	0.33	---	PASS
			30~1000	0.33	-56.51	≤-19.67	PASS
			1000~26500	0.33	-47.54	≤-19.67	PASS

Test Graphs

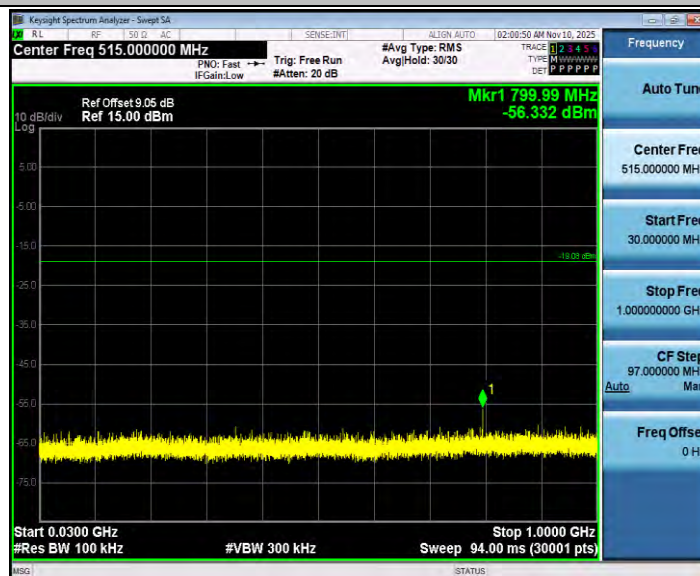




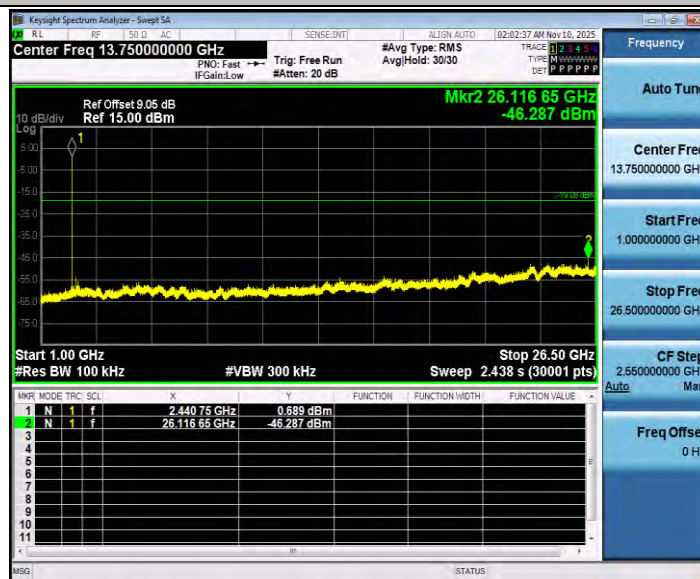
DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



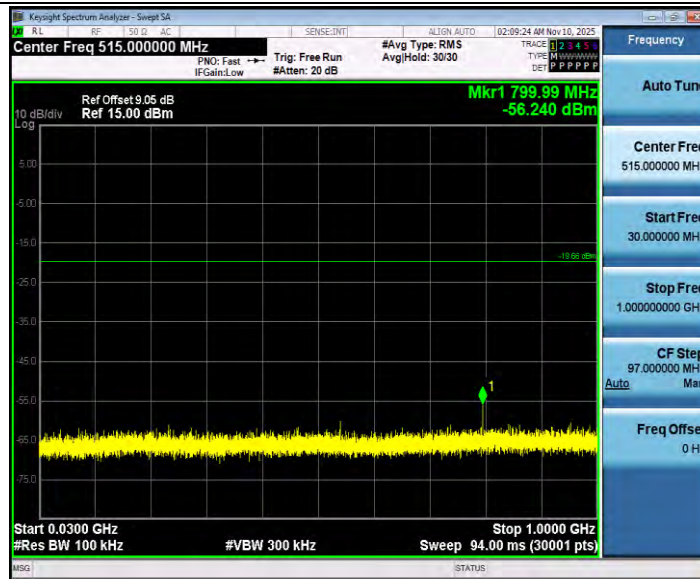
DH1_Ant1_2441_1000~26500



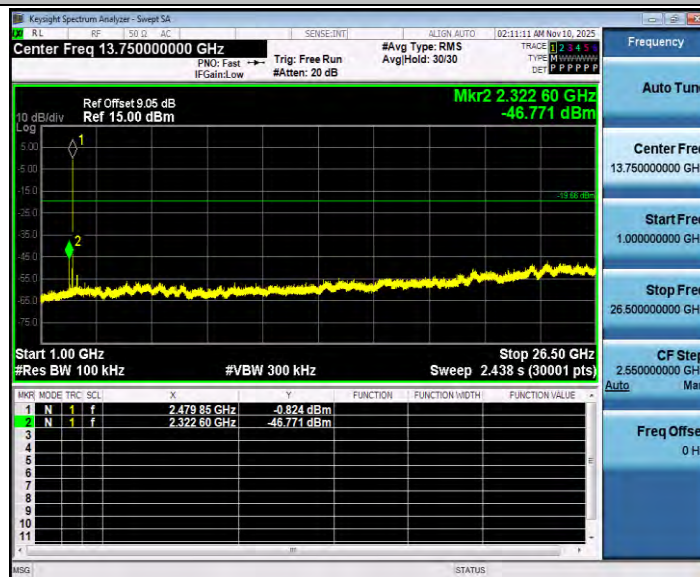
DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000

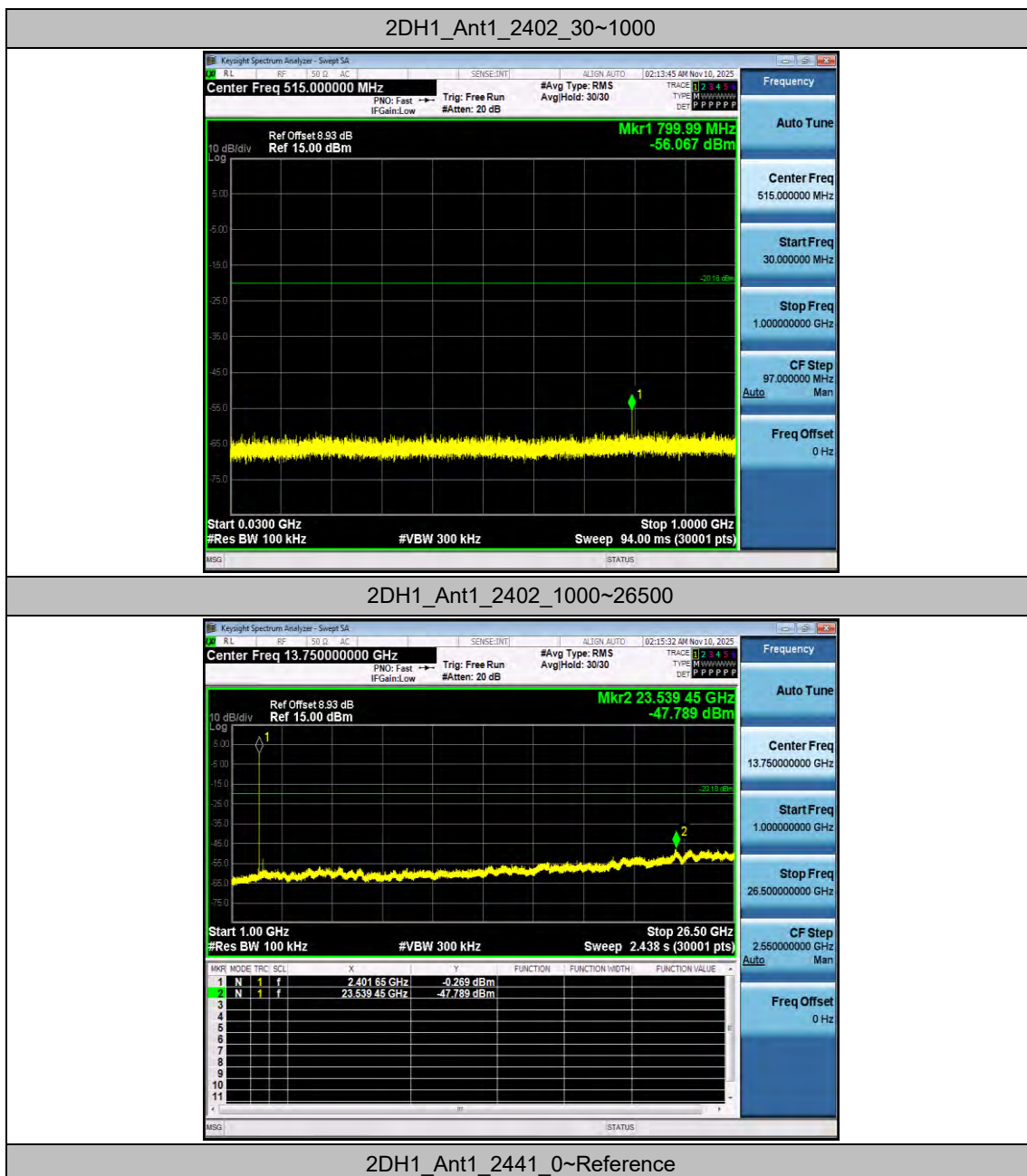


DH1_Ant1_2480_1000~26500



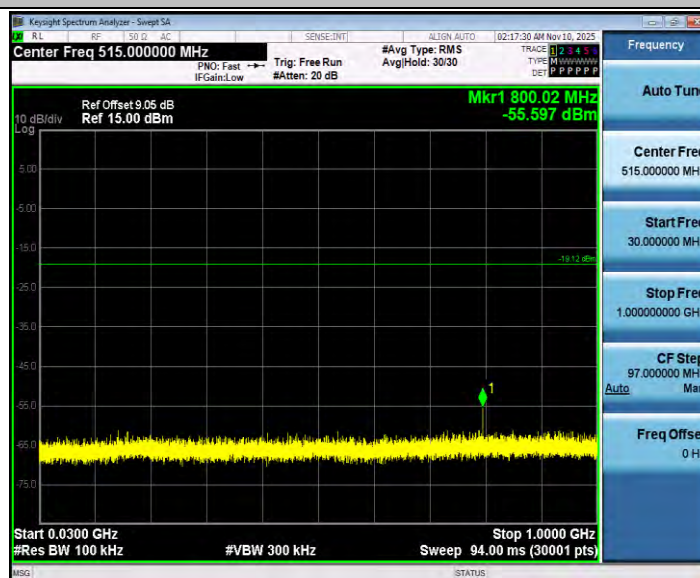
2DH1_Ant1_2402_0~Reference







2DH1_Ant1_2441_30~1000



2DH1_Ant1_2441_1000~26500



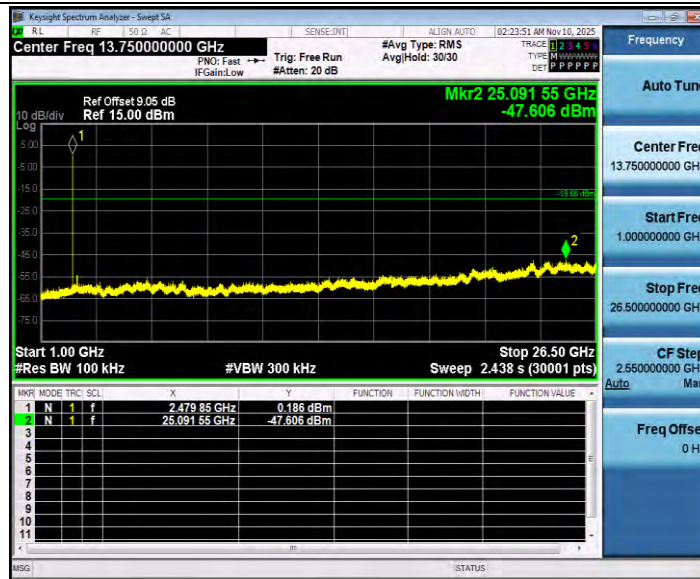
2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



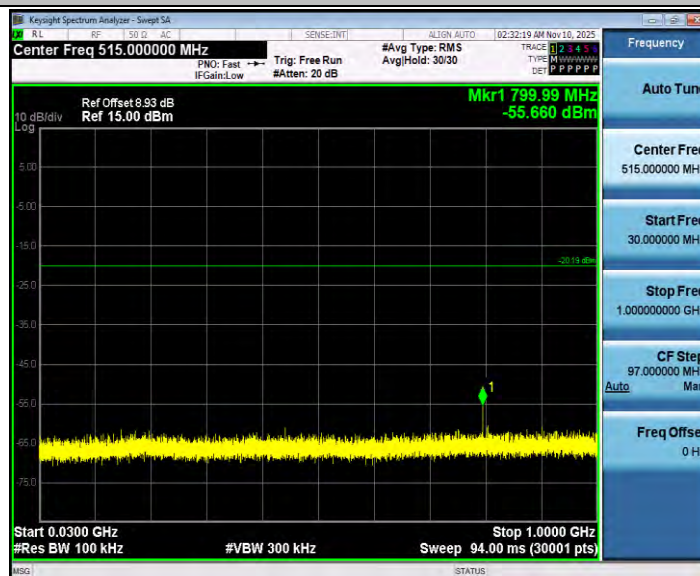
2DH1_Ant1_2480_1000~26500



3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



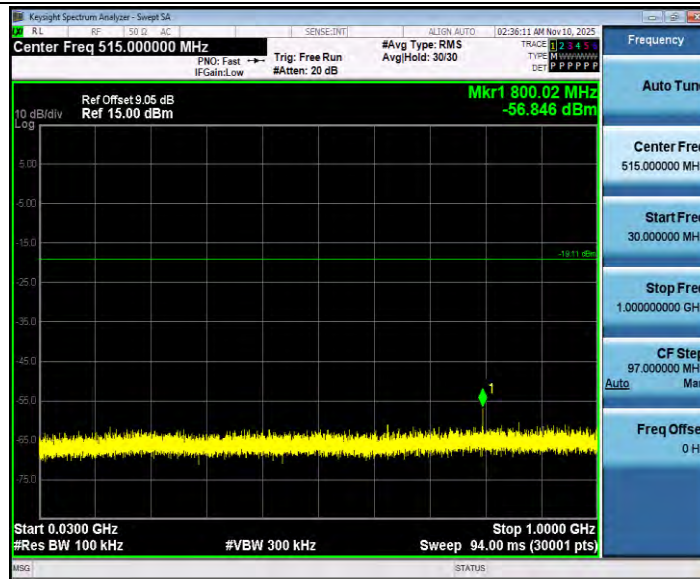
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000

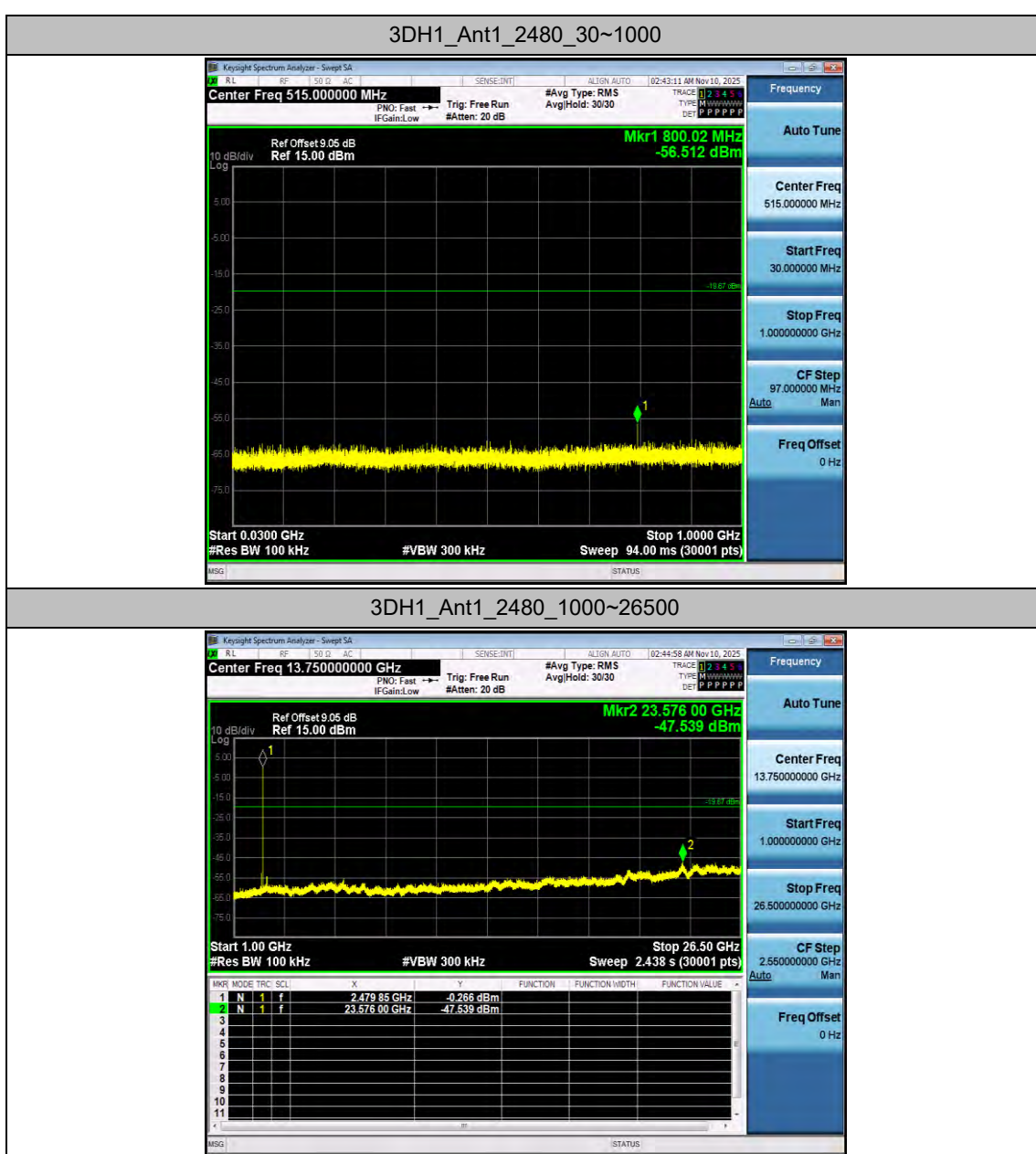


3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference





Appendix A.9: Emissions in Restricted Bands

Test Result

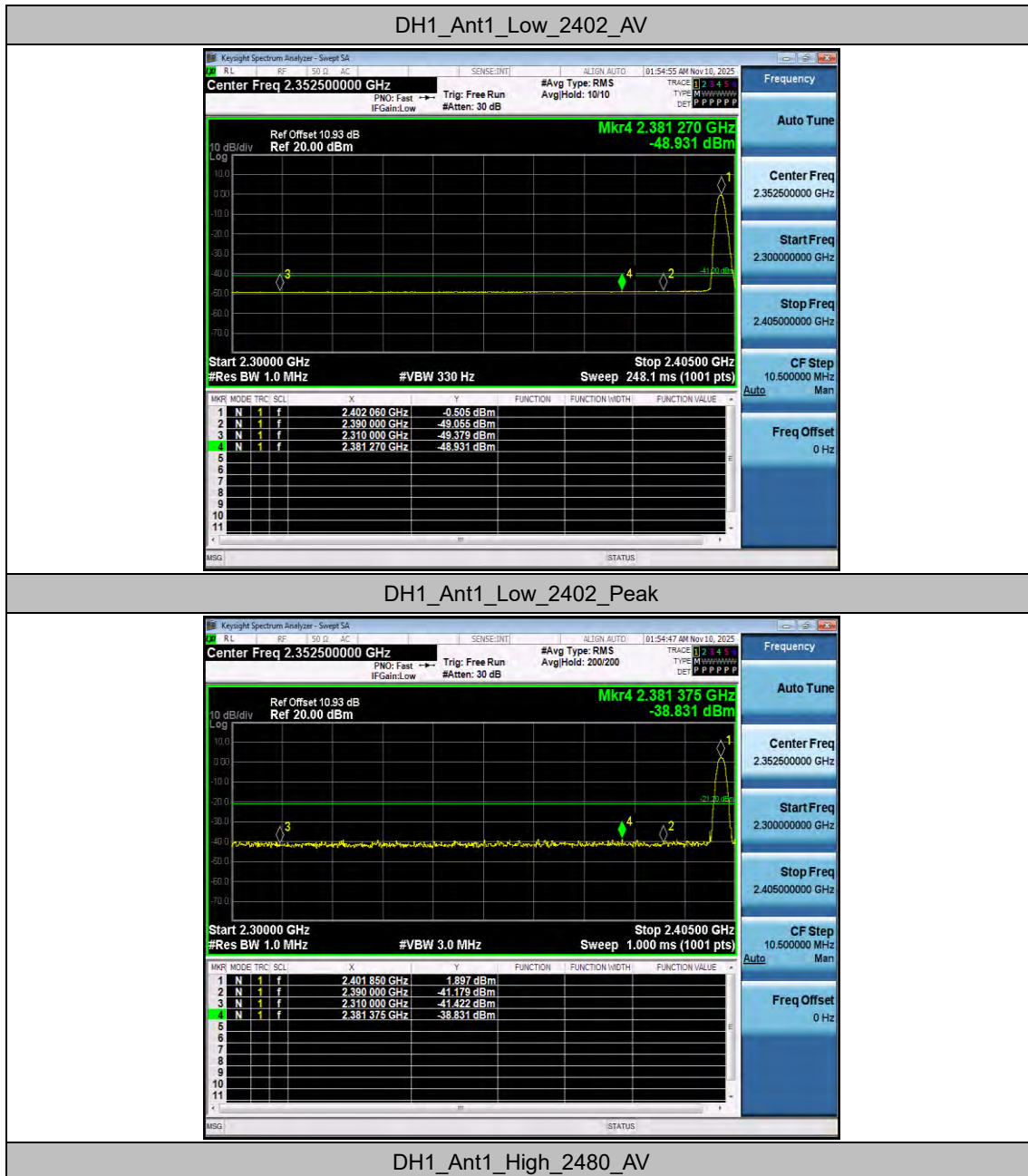
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.38	≤-41.20	45.82	≤54	PASS
				AV	2381.270	-48.93	≤-41.20	46.27	≤54	PASS
				AV	2390.000	-49.06	≤-41.20	46.14	≤54	PASS
				Peak	2310.000	-41.42	≤-21.20	53.78	≤74	PASS
				Peak	2381.375	-38.83	≤-21.20	56.37	≤74	PASS
				Peak	2390.000	-41.18	≤-21.20	54.02	≤74	PASS
		High	2480	AV	2483.500	-48.48	≤-41.20	46.72	≤54	PASS
				AV	2483.520	-48.48	≤-41.20	46.72	≤54	PASS
				AV	2500.000	-48.83	≤-41.20	46.37	≤54	PASS
				Peak	2483.500	-40.8	≤-21.20	54.40	≤74	PASS
				Peak	2485.120	-38.54	≤-21.20	56.66	≤74	PASS
				Peak	2500.000	-41.03	≤-21.20	54.17	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.37	≤-41.20	45.83	≤54	PASS
				AV	2388.515	-48.89	≤-41.20	46.31	≤54	PASS
				AV	2390.000	-49.01	≤-41.20	46.19	≤54	PASS
				Peak	2310.000	-41.68	≤-21.20	53.52	≤74	PASS
				Peak	2355.965	-39.08	≤-21.20	56.12	≤74	PASS
				Peak	2390.000	-40.87	≤-21.20	54.33	≤74	PASS
		High	2480	AV	2483.500	-48.55	≤-41.20	46.65	≤54	PASS
				AV	2483.600	-48.37	≤-41.20	46.83	≤54	PASS
				AV	2500.000	-48.66	≤-41.20	46.54	≤54	PASS
				Peak	2483.500	-40.73	≤-21.20	54.47	≤74	PASS
				Peak	2495.600	-39.18	≤-21.20	56.02	≤74	PASS
				Peak	2500.000	-41.06	≤-21.20	54.14	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.5	≤-41.20	45.70	≤54	PASS
				AV	2389.985	-48.96	≤-41.20	46.24	≤54	PASS
				AV	2390.000	-48.96	≤-41.20	46.24	≤54	PASS
				Peak	2310.000	-41.09	≤-21.20	54.11	≤74	PASS
				Peak	2340.530	-39	≤-21.20	56.20	≤74	PASS
				Peak	2390.000	-39.65	≤-21.20	55.55	≤74	PASS
		High	2480	AV	2483.500	-48.32	≤-41.20	46.88	≤54	PASS
				AV	2483.520	-48.32	≤-41.20	46.88	≤54	PASS
				AV	2500.000	-48.7	≤-41.20	46.50	≤54	PASS
				Peak	2483.500	-41.5	≤-21.20	53.70	≤74	PASS
				Peak	2494.000	-38.62	≤-21.20	56.58	≤74	PASS

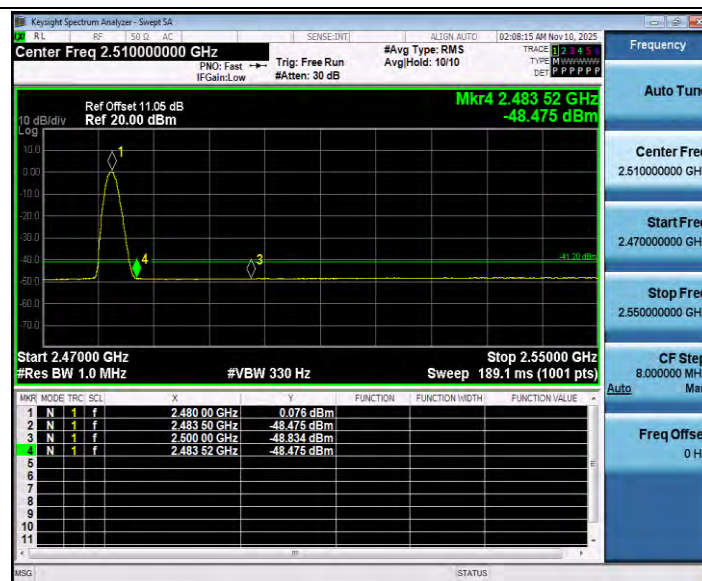
				Peak	2500.000	-40.35	≤-21.20	54.85	≤74	PASS
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Note:

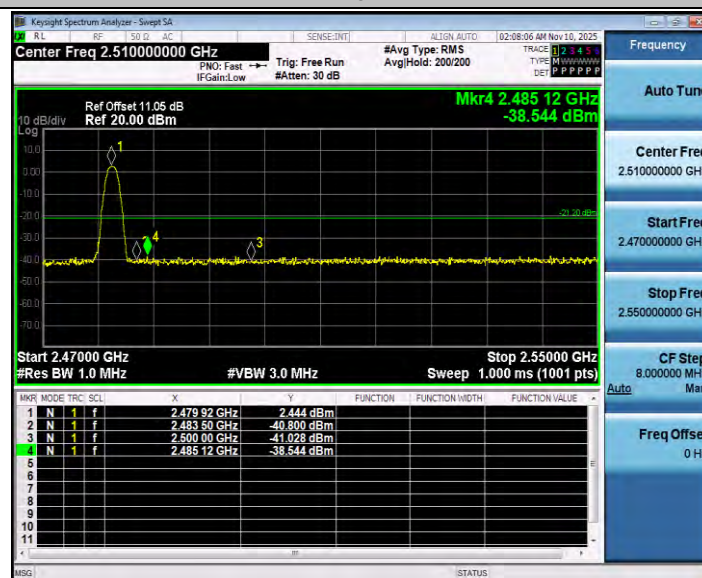
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

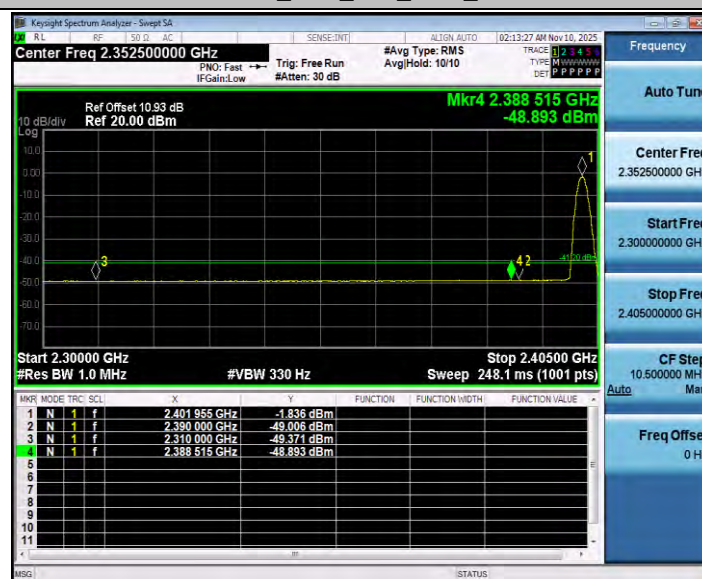




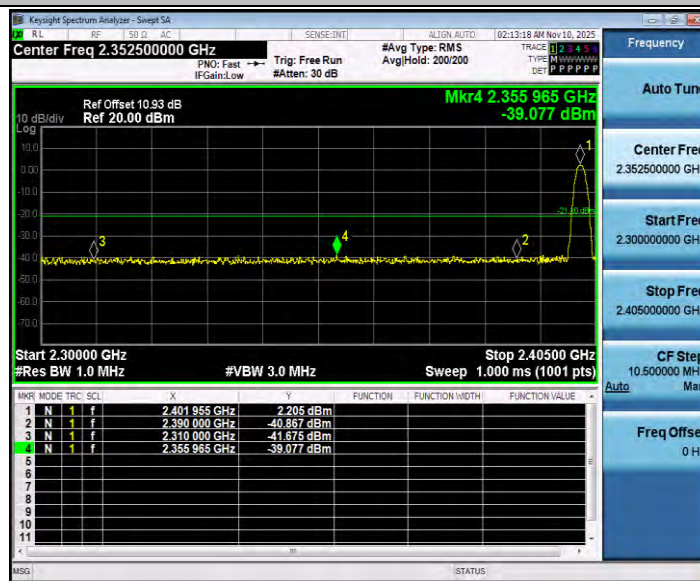
DH1_Ant1_High_2480_Peak



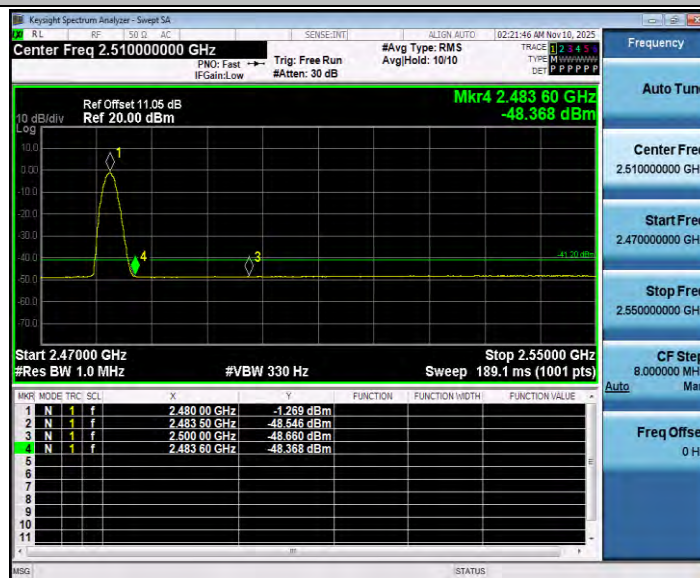
2DH1_Ant1_Low_2402_AV



2DH1_Ant1_Low_2402_Peak



2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak

