

Case No. : <u>GTS20251018005-2-01</u>
Ambient Condition: <u>22</u> °C, <u>47</u> %RH
According Standard: ■Part15C
Test Date: <u>2025.10.24-2025.11.17</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	2401.529	2402.462	---	---
		2441	0.930	2440.532	2441.462	---	---
		2480	0.930	2479.529	2480.459	---	---
2DH1	Ant1	2402	1.293	2401.322	2402.615	---	---
		2441	1.317	2440.319	2441.636	---	---
		2480	1.269	2479.325	2480.594	---	---
3DH1	Ant1	2402	1.269	2401.355	2402.624	---	---
		2441	1.263	2440.361	2441.624	---	---
		2480	1.302	2479.328	2480.630	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



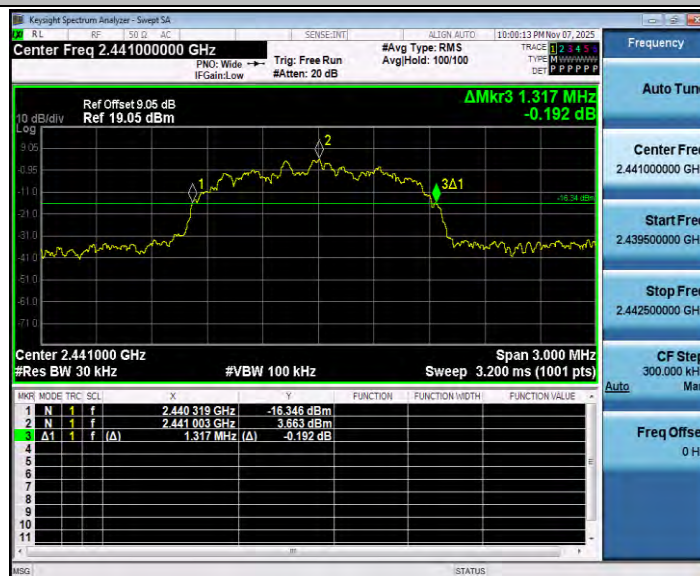
DH1_Ant1_2480



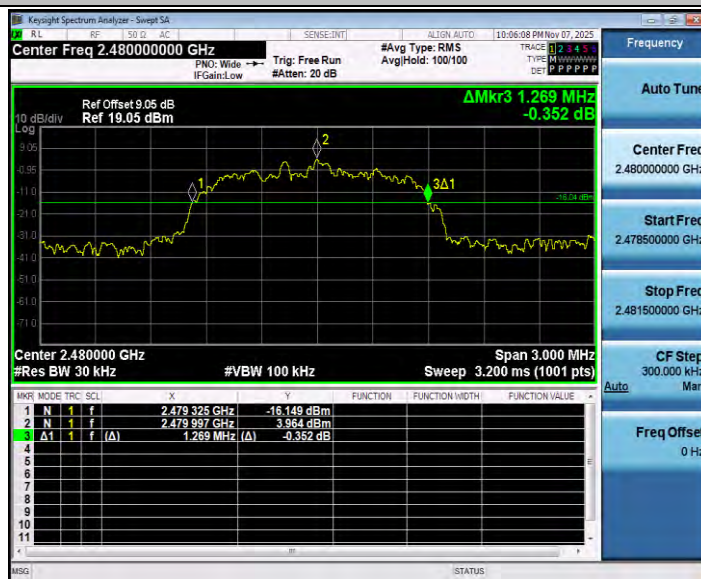
2DH1_Ant1_2402



2DH1_Ant1_2441



2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



3DH1_Ant1_2480



AppendixA.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.82860	2401.5801	2402.4087	---	---
		2441	0.84386	2440.5671	2441.4109	---	---
		2480	0.83346	2479.5706	2480.4040	---	---
2DH1	Ant1	2402	1.1781	2401.3916	2402.5697	---	---
		2441	1.1815	2440.3862	2441.5677	---	---
		2480	1.1831	2479.3855	2480.5686	---	---
3DH1	Ant1	2402	1.1650	2401.4147	2402.5797	---	---
		2441	1.1626	2440.4156	2441.5782	---	---
		2480	1.1685	2479.4109	2480.5794	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



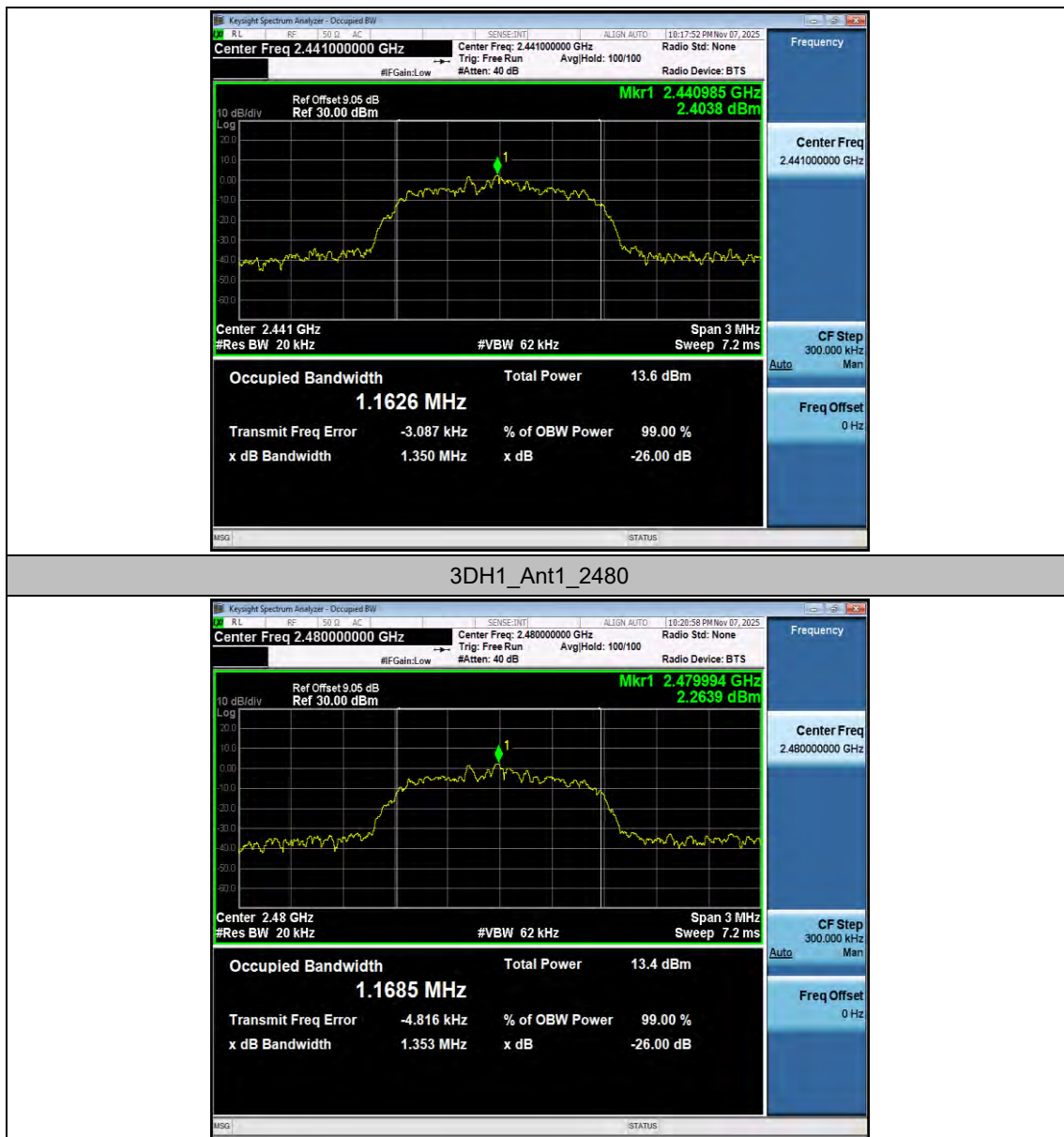
2DH1_Ant1_2480



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	10.45	≤20.97	PASS
		2441	10.13	≤20.97	PASS
		2480	10.77	≤20.97	PASS
2DH1	Ant1	2402	9.90	≤20.97	PASS
		2441	9.55	≤20.97	PASS
		2480	9.24	≤20.97	PASS
3DH1	Ant1	2402	9.15	≤20.97	PASS
		2441	9.80	≤20.97	PASS
		2480	9.52	≤20.97	PASS

AppendixA.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	1.31	≥ 0.622	PASS
		Hop_2441	0.68	≥ 0.622	PASS
		Hop_2480	0.998	≥ 0.622	PASS
2DH1	Ant1	Hop_2402	0.994	≥ 0.878	PASS
		Hop_2441	1.008	≥ 0.878	PASS
		Hop_2480	1.012	≥ 0.878	PASS
3DH1	Ant1	Hop_2402	1.002	≥ 0.868	PASS
		Hop_2441	1.132	≥ 0.868	PASS
		Hop_2480	1.024	≥ 0.868	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

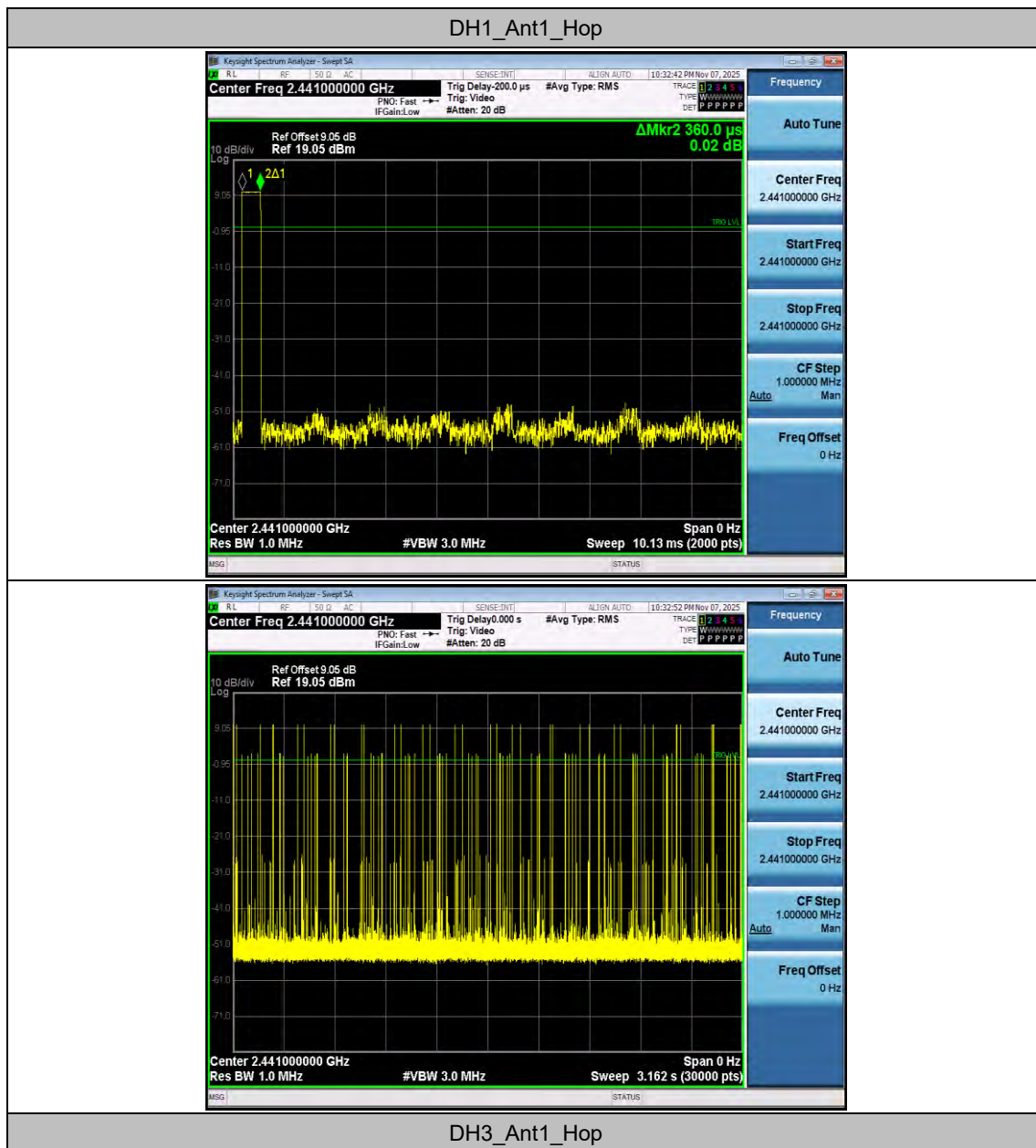


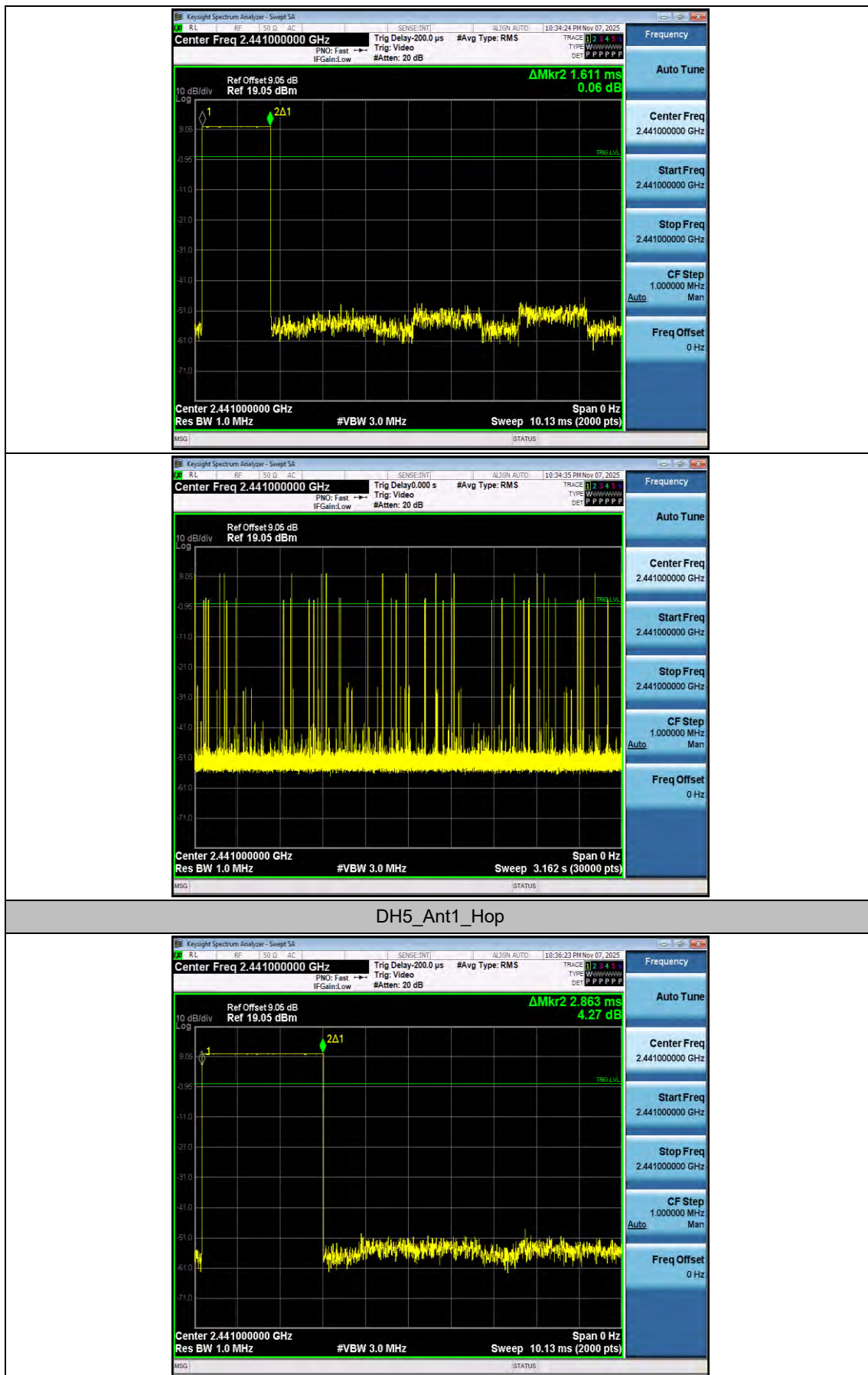
AppendixA.5: Time of occupancy

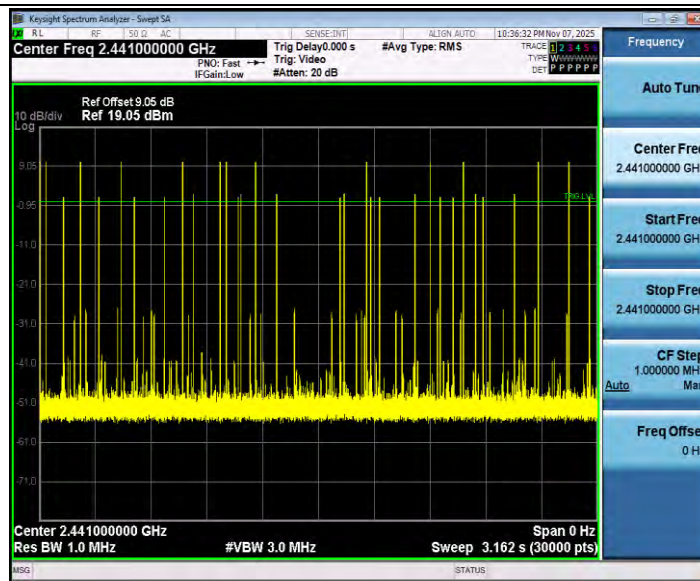
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.360	330	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.611	150	0.242	≤0.4	PASS
DH5	Ant1	Hop	2.863	130	0.372	≤0.4	PASS
2DH1	Ant1	Hop	0.355	330	0.117	≤0.4	PASS
2DH3	Ant1	Hop	1.616	170	0.275	≤0.4	PASS
2DH5	Ant1	Hop	2.863	90	0.258	≤0.4	PASS
3DH1	Ant1	Hop	0.355	320	0.114	≤0.4	PASS
3DH3	Ant1	Hop	1.616	170	0.275	≤0.4	PASS
3DH5	Ant1	Hop	2.863	110	0.315	≤0.4	PASS

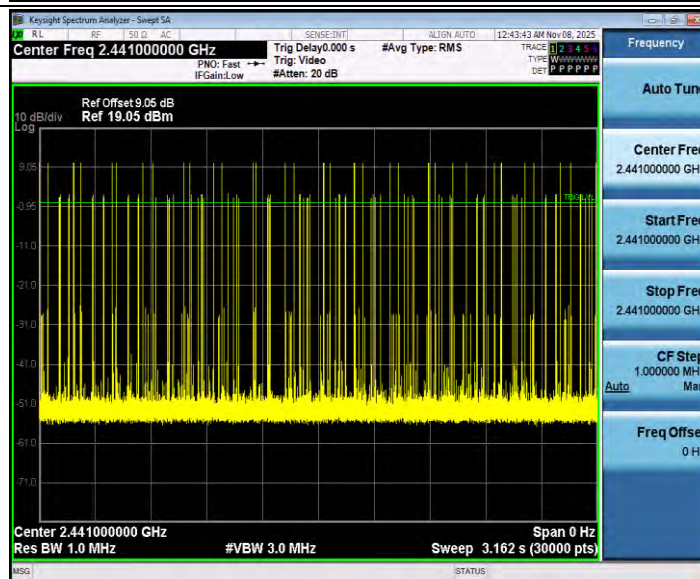
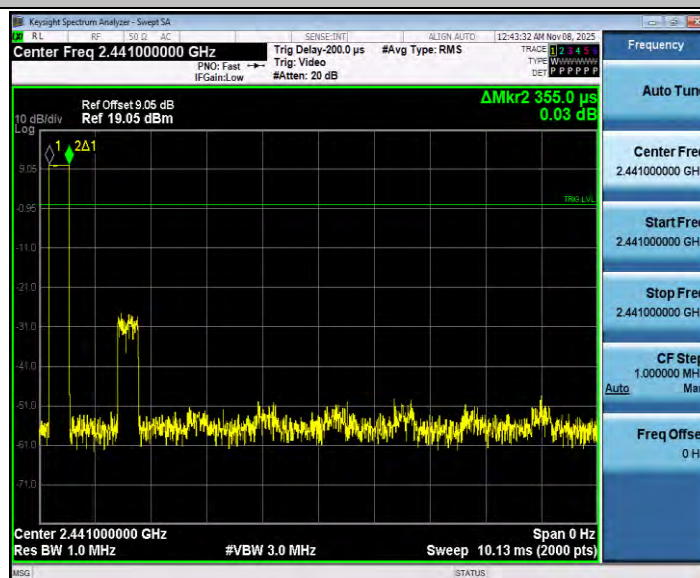
Test Graphs



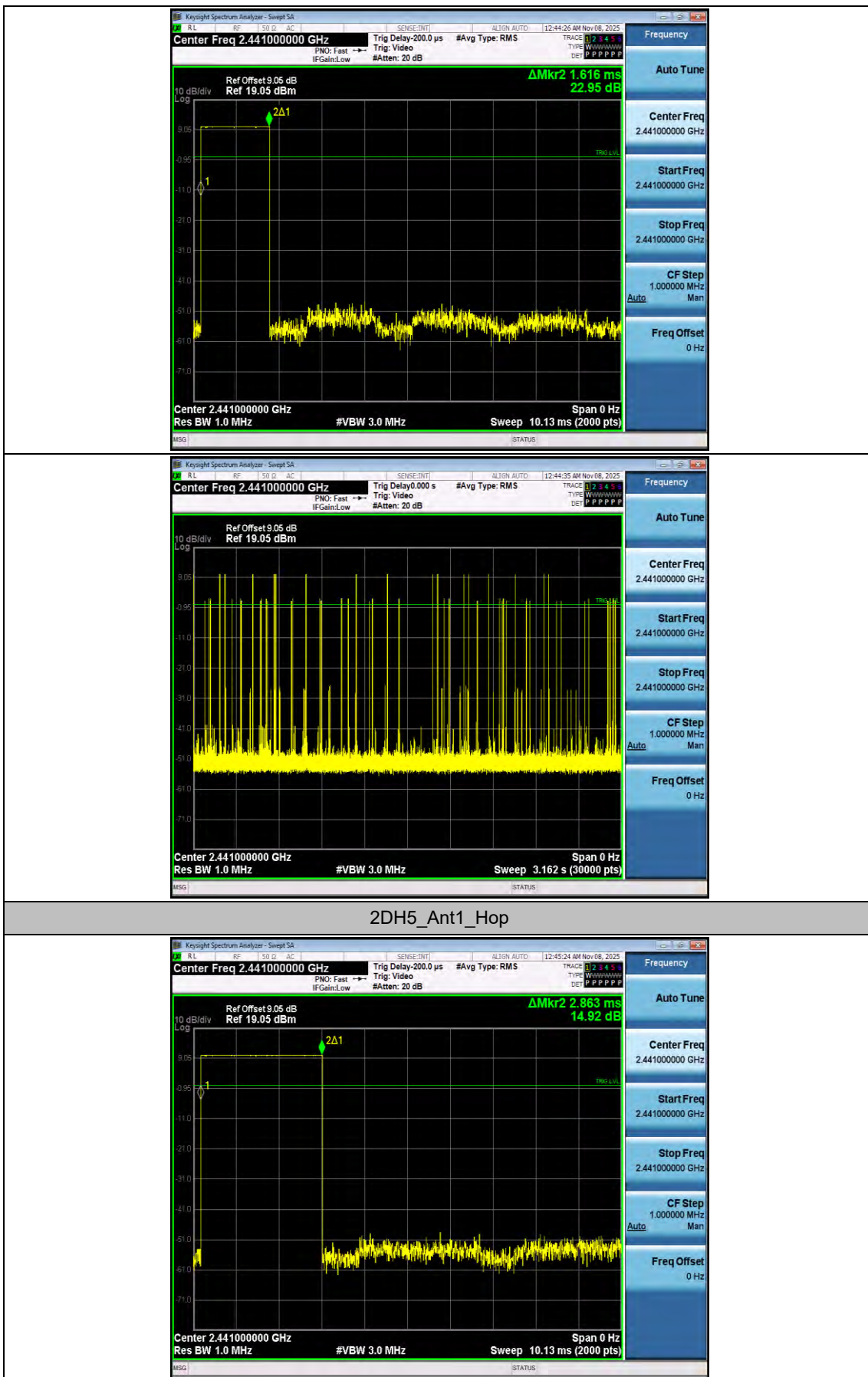


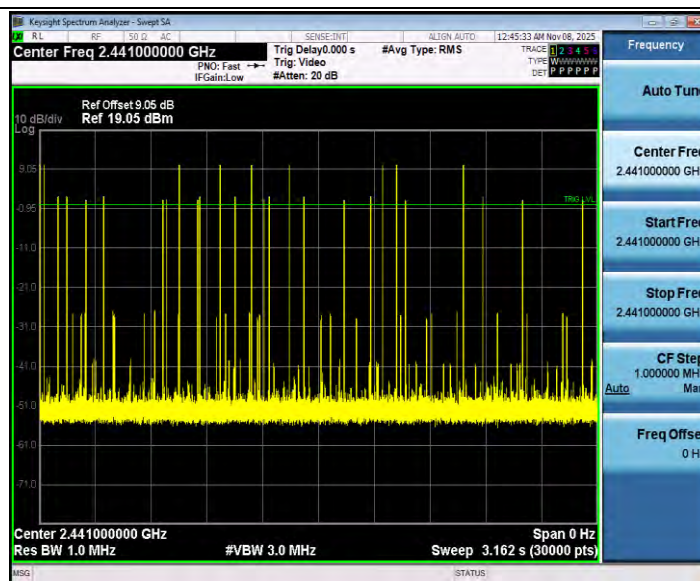


2DH1_Ant1_Hop

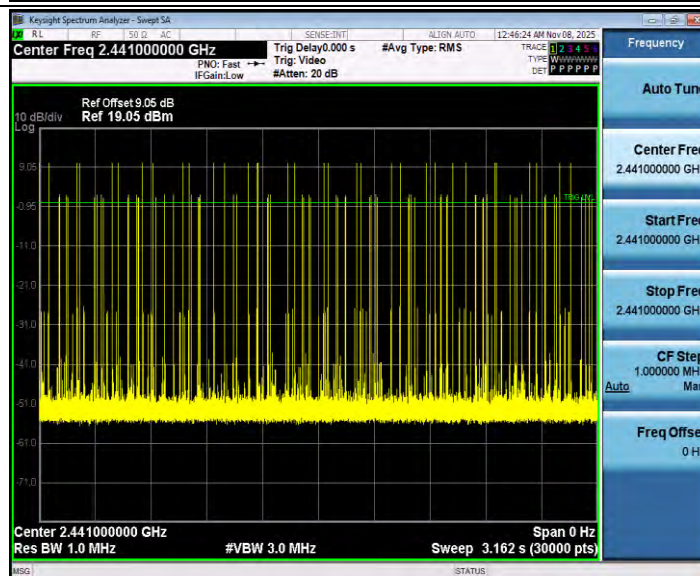
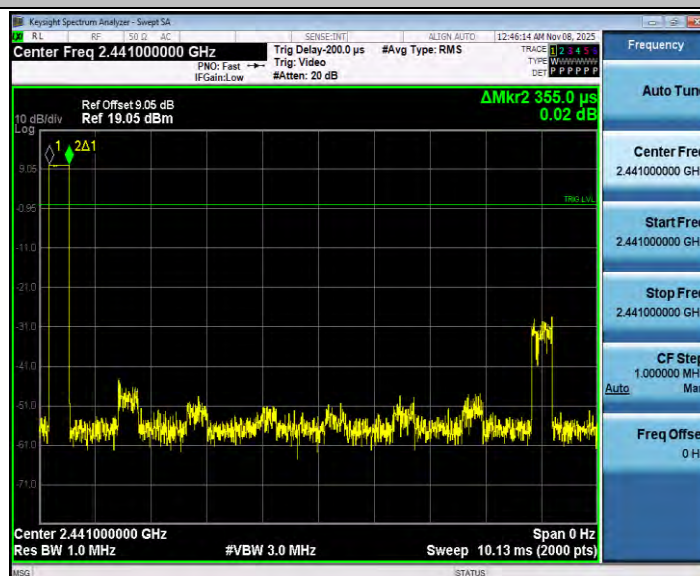


2DH3_Ant1_Hop

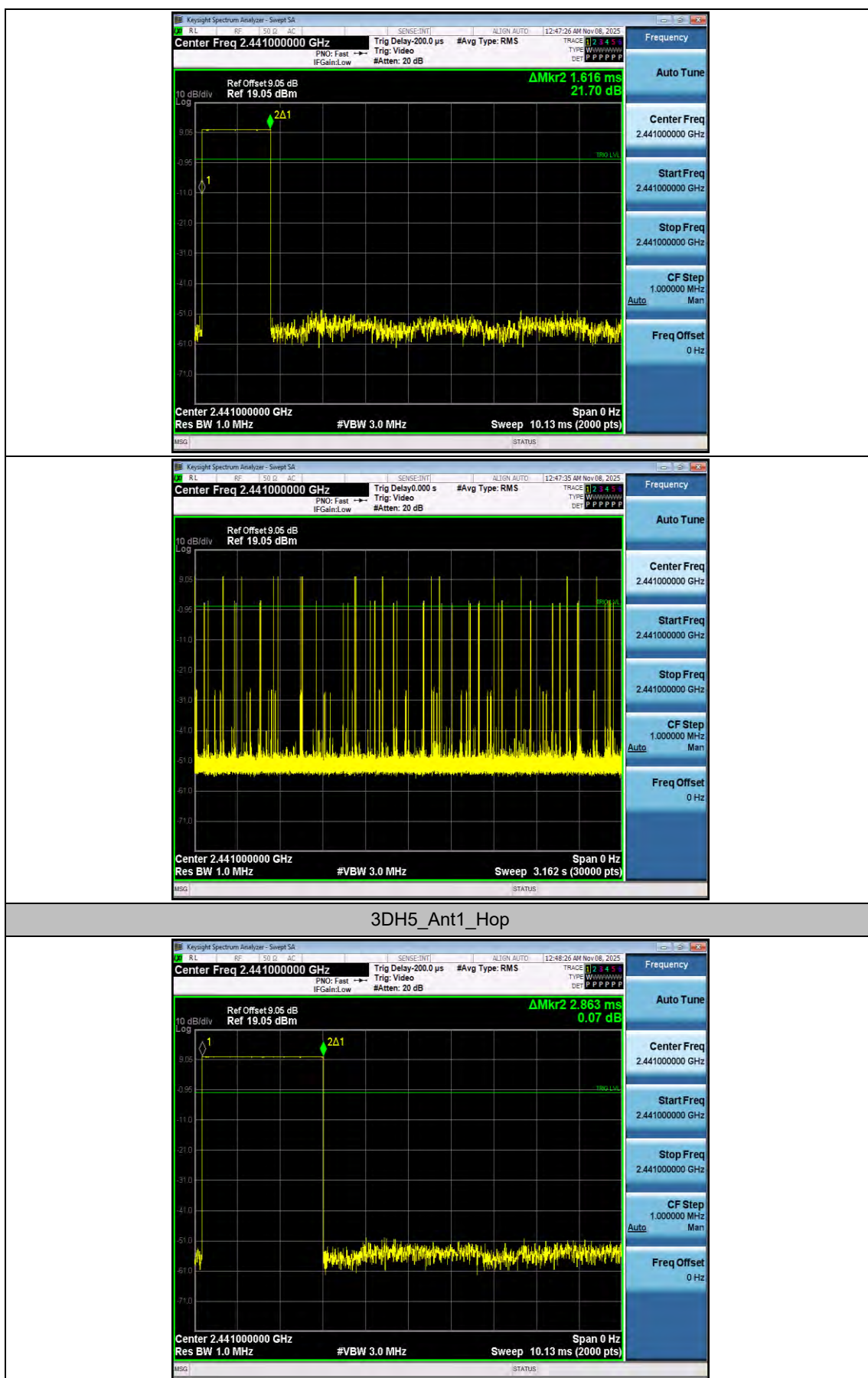




3DH1_Ant1_Hop



3DH3_Ant1_Hop



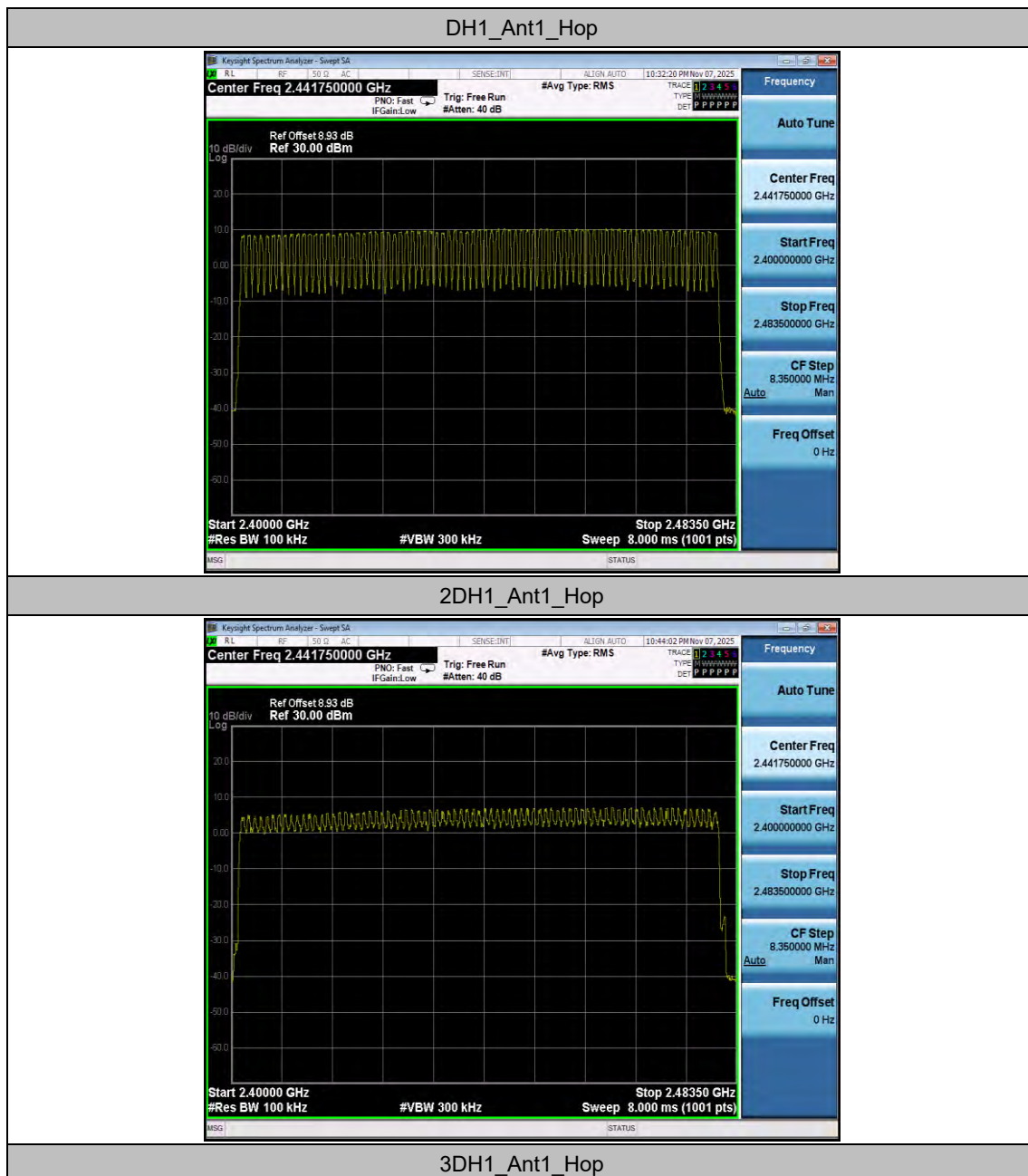


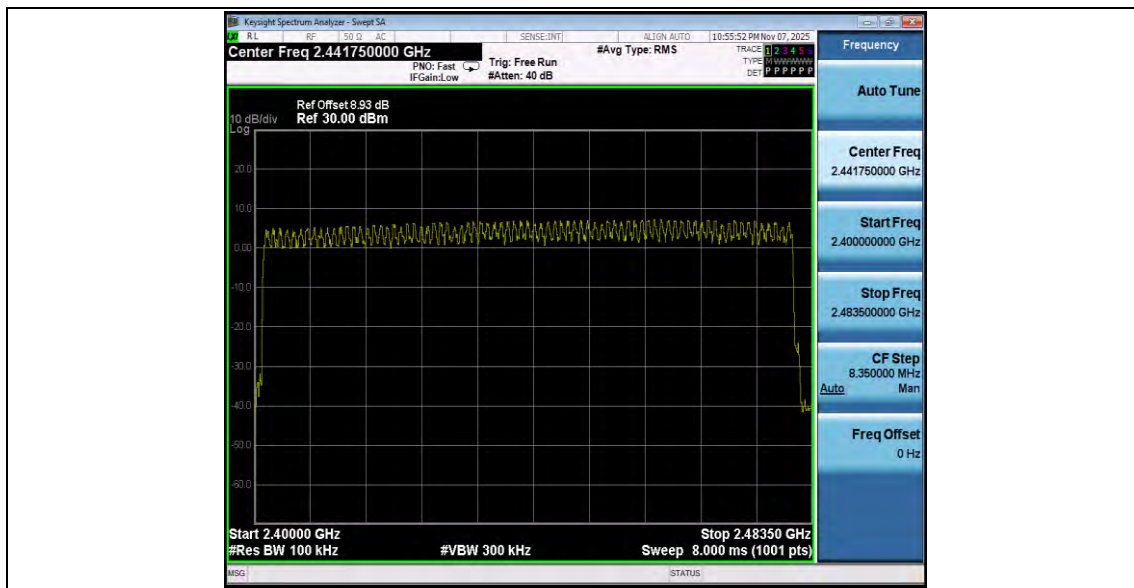
AppendixA.6: Number of hopping channels

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





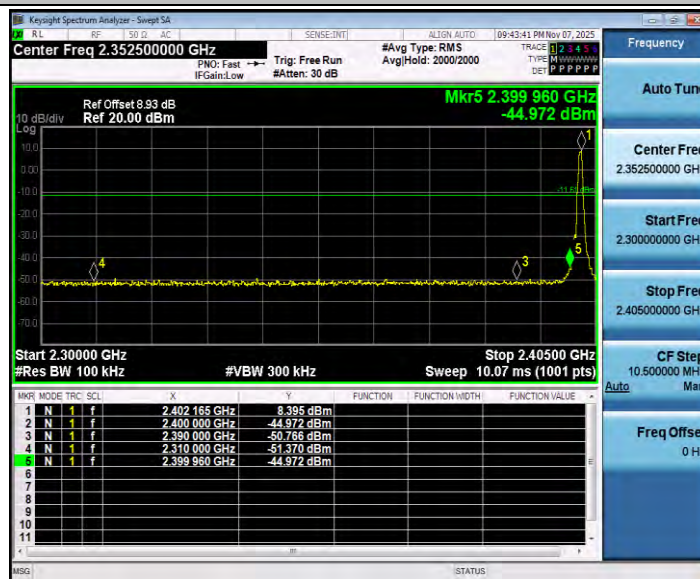
Appendix A.7: Band edge measurements

Test Result

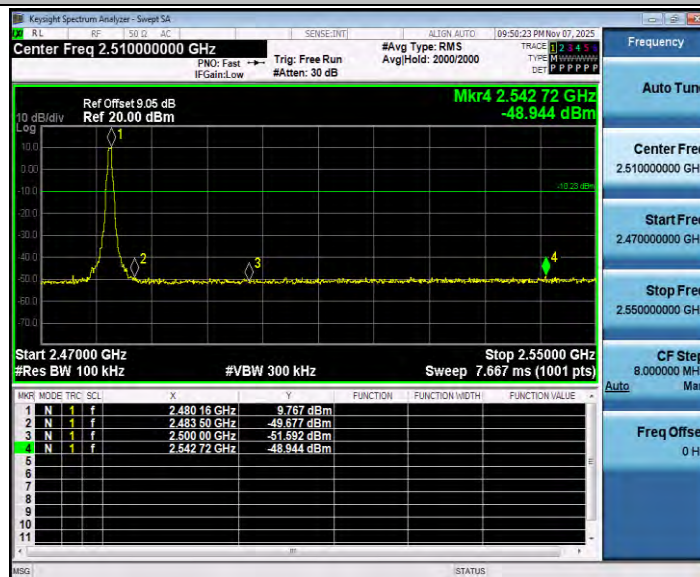
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	8.40	-44.97	≤ -11.61	PASS
		High	2480	9.77	-48.94	≤ -10.23	PASS
		Low	Hop_2402	8.23	-47.19	≤ -11.77	PASS
		High	Hop_2480	9.85	-46.41	≤ -10.15	PASS
2DH1	Ant1	Low	2402	4.73	-43.36	≤ -15.27	PASS
		High	2480	6.79	-47.79	≤ -13.21	PASS
		Low	Hop_2402	4.60	-45.08	≤ -15.4	PASS
		High	Hop_2480	7.02	-47.62	≤ -12.98	PASS
3DH1	Ant1	Low	2402	4.93	-39.78	≤ -15.07	PASS
		High	2480	6.90	-49.1	≤ -13.1	PASS
		Low	Hop_2402	4.43	-46.31	≤ -15.57	PASS
		High	Hop_2480	6.76	-48.6	≤ -13.24	PASS

Test Graphs

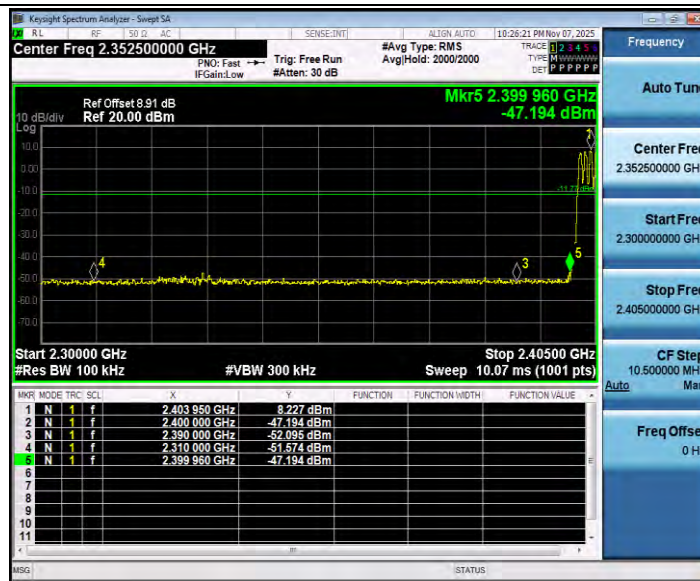
DH1_Ant1_Low_2402



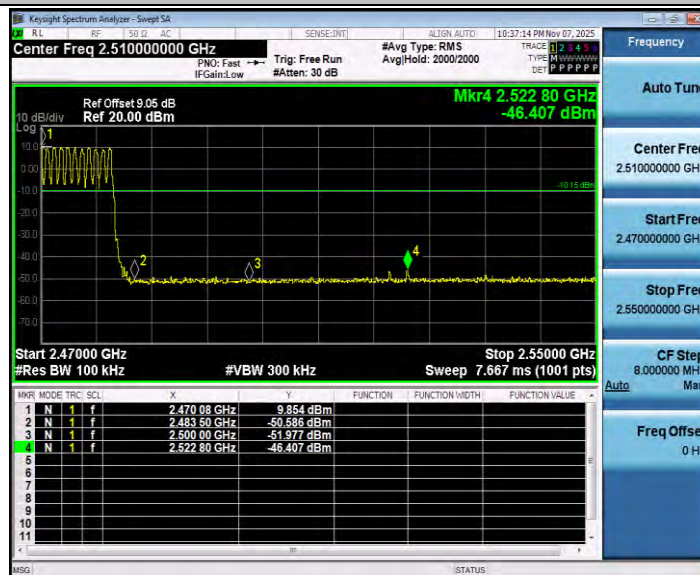
DH1_Ant1_High_2480



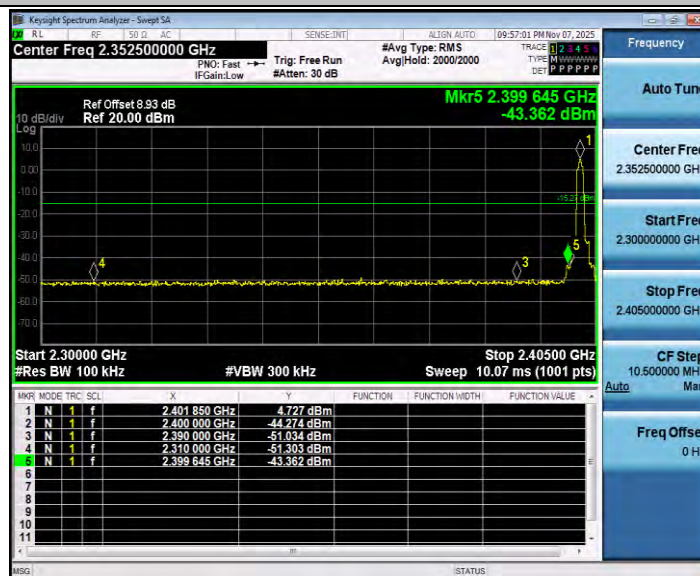
DH1_Ant1_Low_Hop_2402



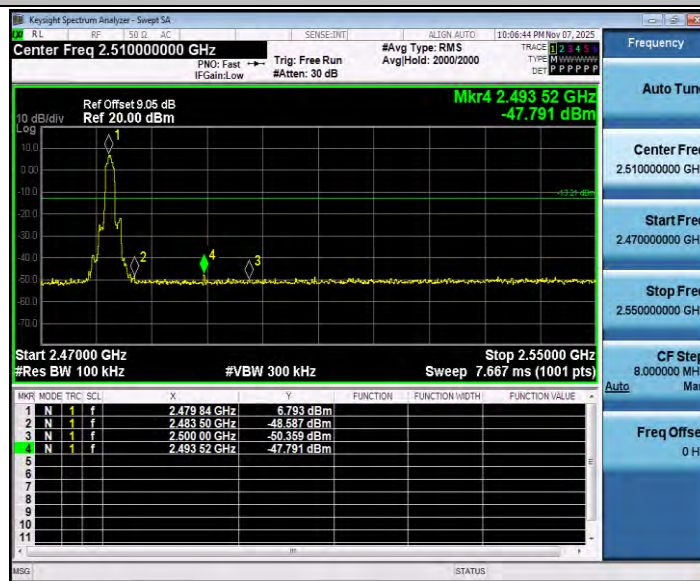
DH1_Ant1_High_Hop_2480



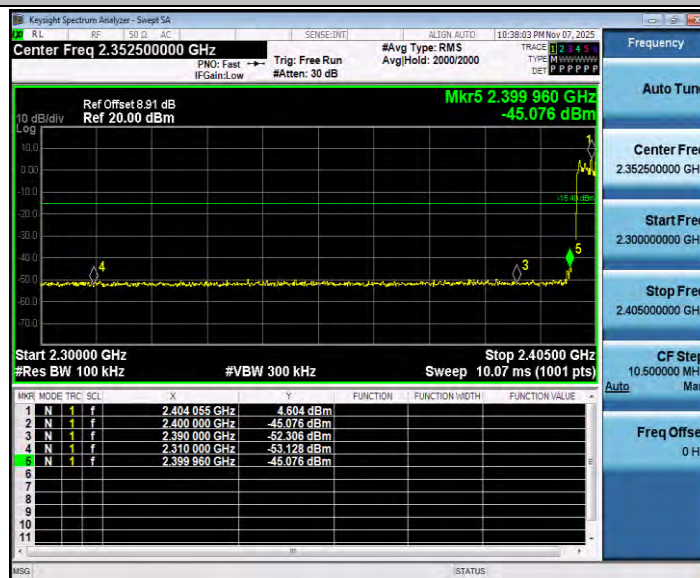
2DH1_Ant1_Low_2402



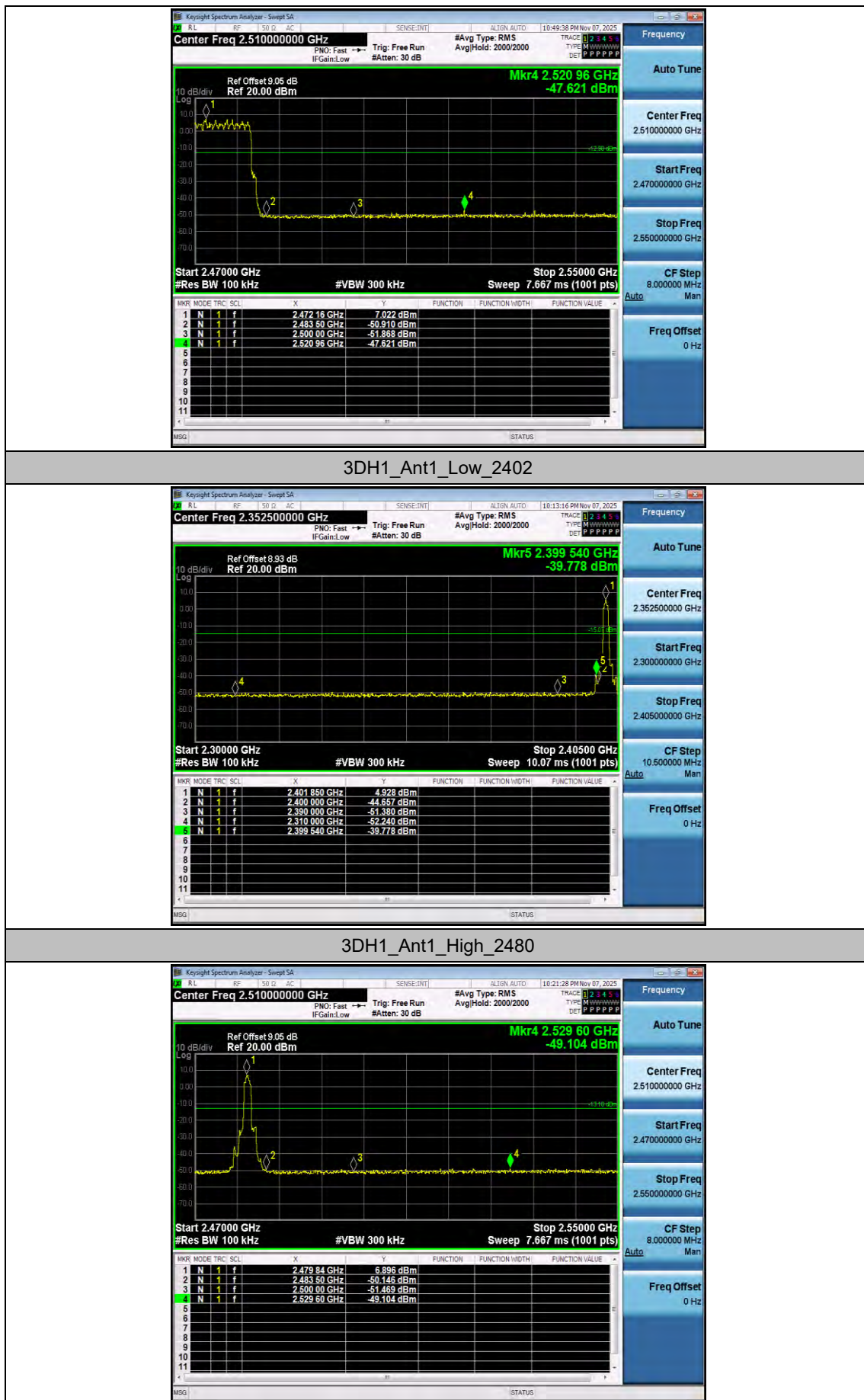
2DH1_Ant1_High_2480



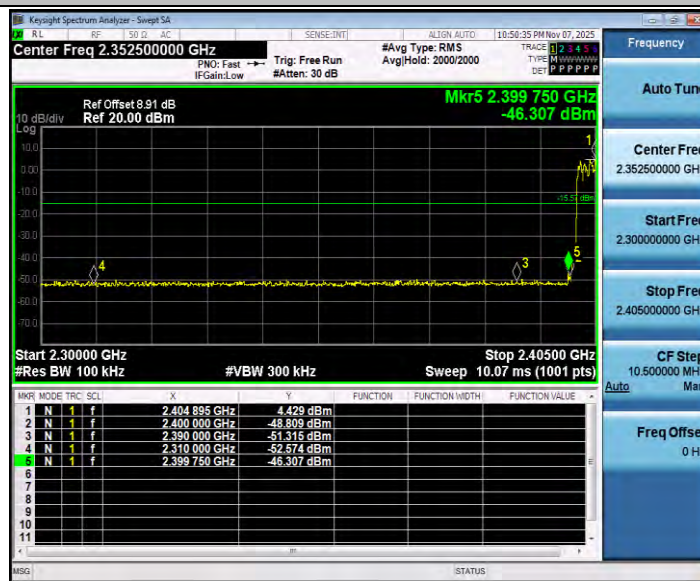
2DH1_Ant1_Low_Hop_2402



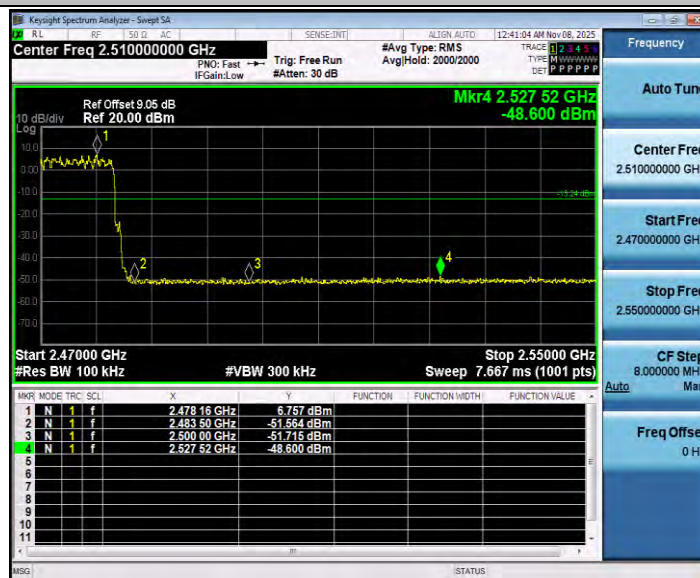
2DH1_Ant1_High_Hop_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

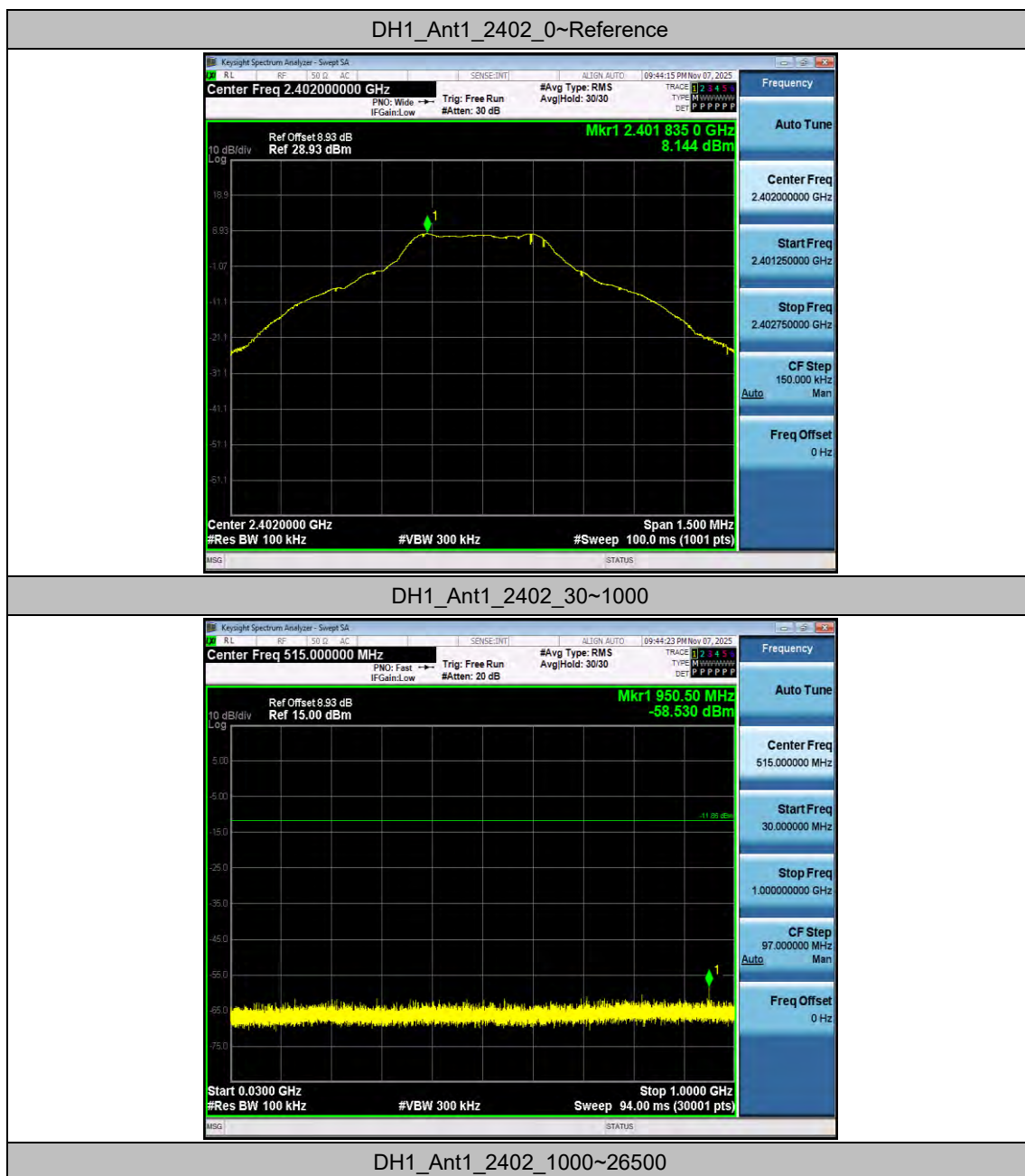


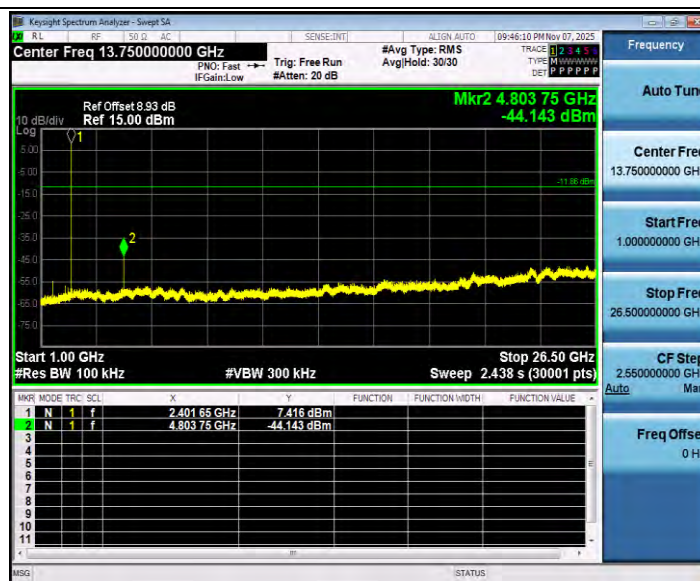
Appendix A.8: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	8.14	8.14	---	PASS
			30~1000	8.14	-58.53	≤ -11.86	PASS
			1000~26500	8.14	-44.14	≤ -11.86	PASS
		2441	Reference	9.83	9.83	---	PASS
			30~1000	9.83	-60.73	≤ -10.17	PASS
			1000~26500	9.83	-47.54	≤ -10.17	PASS
		2480	Reference	9.51	9.51	---	PASS
			30~1000	9.51	-59.55	≤ -10.49	PASS
			1000~26500	9.51	-47.78	≤ -10.49	PASS
2DH1	Ant1	2402	Reference	4.59	4.59	---	PASS
			30~1000	4.59	-59.66	≤ -15.41	PASS
			1000~26500	4.59	-47.27	≤ -15.41	PASS
		2441	Reference	6.70	6.70	---	PASS
			30~1000	6.70	-60	≤ -13.3	PASS
			1000~26500	6.70	-47.69	≤ -13.3	PASS
		2480	Reference	6.64	6.64	---	PASS
			30~1000	6.64	-60.6	≤ -13.36	PASS
			1000~26500	6.64	-47.75	≤ -13.36	PASS
3DH1	Ant1	2402	Reference	4.83	4.83	---	PASS
			30~1000	4.83	-60.29	≤ -15.17	PASS
			1000~26500	4.83	-47.9	≤ -15.17	PASS
		2441	Reference	6.93	6.93	---	PASS
			30~1000	6.93	-60.61	≤ -13.07	PASS
			1000~26500	6.93	-47.55	≤ -13.07	PASS
		2480	Reference	6.83	6.83	---	PASS
			30~1000	6.83	-60.34	≤ -13.17	PASS
			1000~26500	6.83	-46.91	≤ -13.17	PASS

Test Graphs

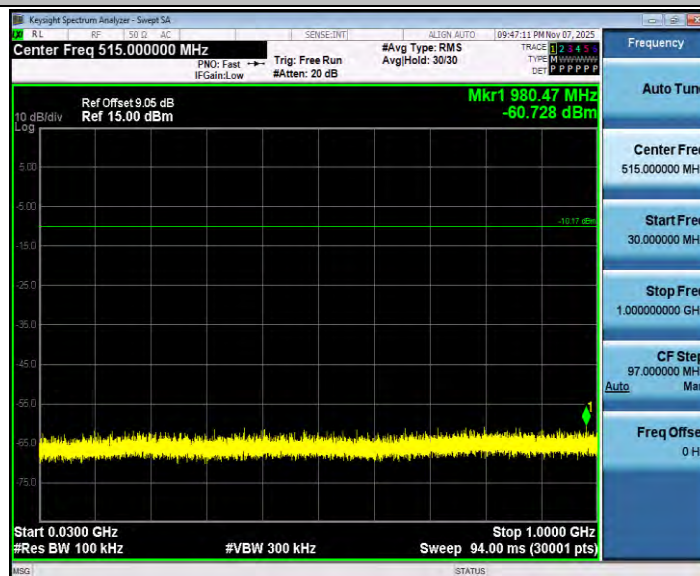




DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



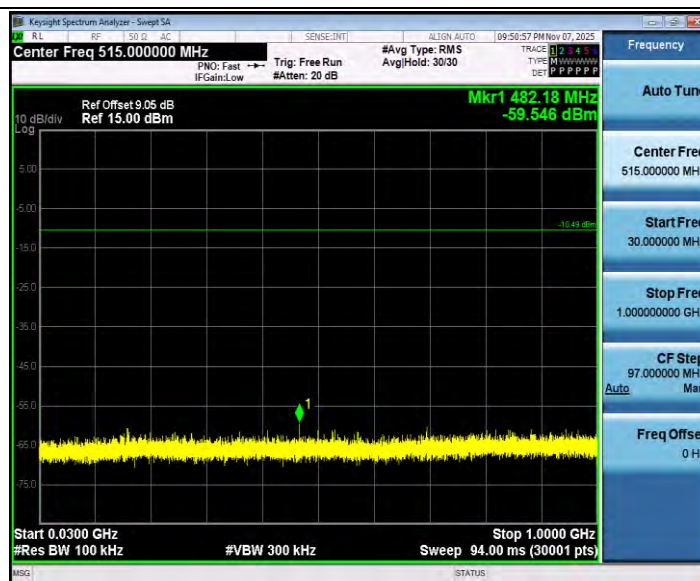
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000

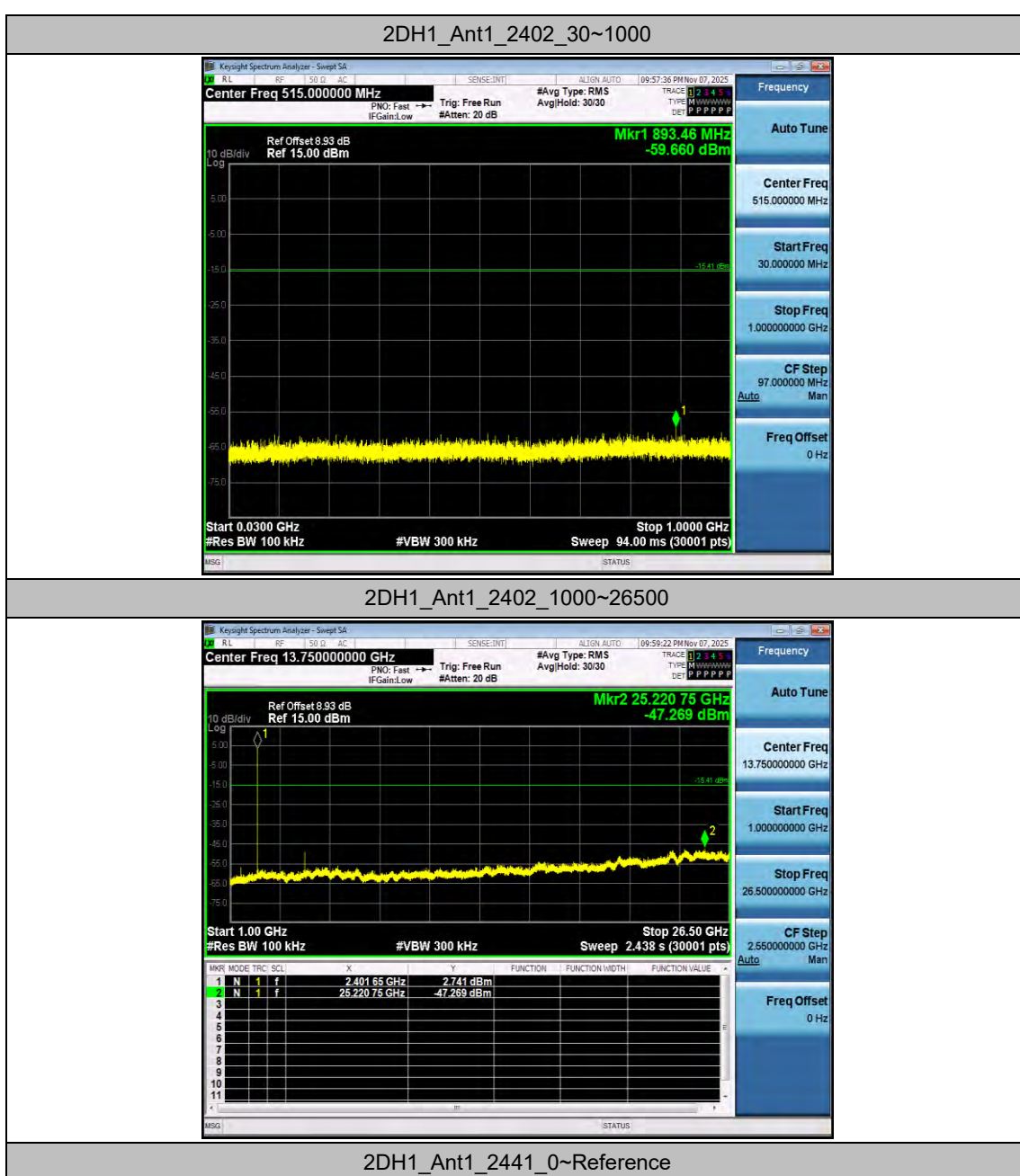


DH1_Ant1_2480_1000~26500



2DH1_Ant1_2402_0~Reference







2DH1_Ant1_2441_30~1000



2DH1_Ant1_2441_1000~26500



2DH1_Ant1_2480_0~Reference

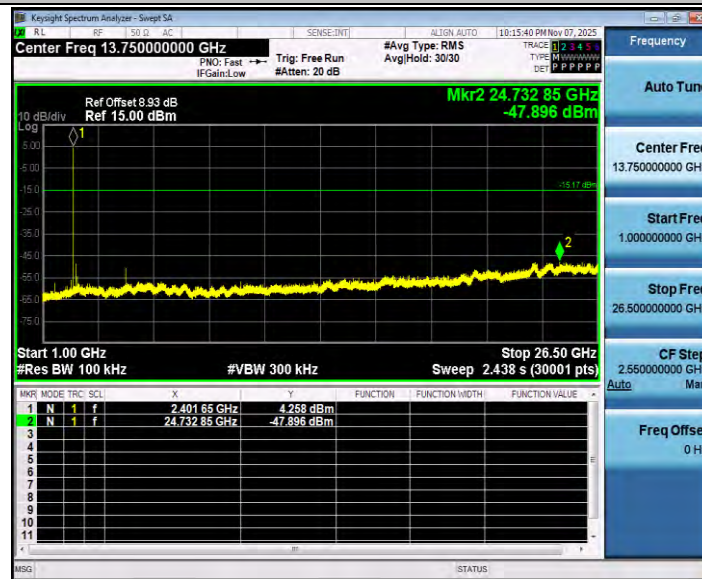


2DH1_Ant1_2480_30~1000



2DH1_Ant1_2480_1000~26500

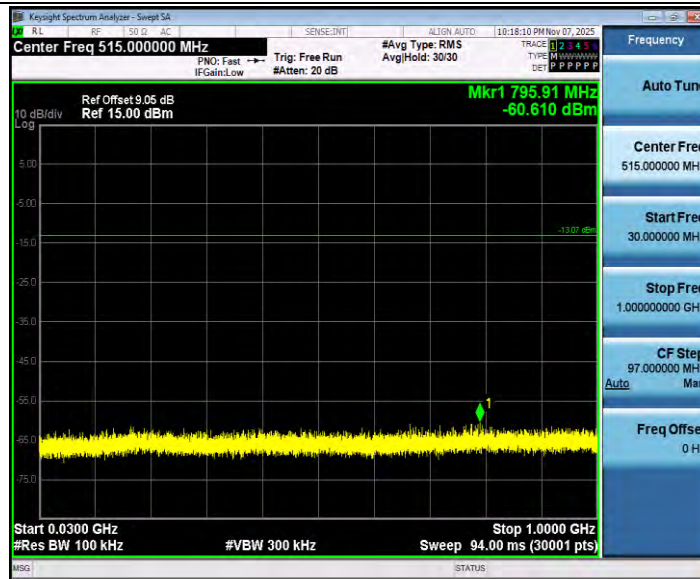
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000

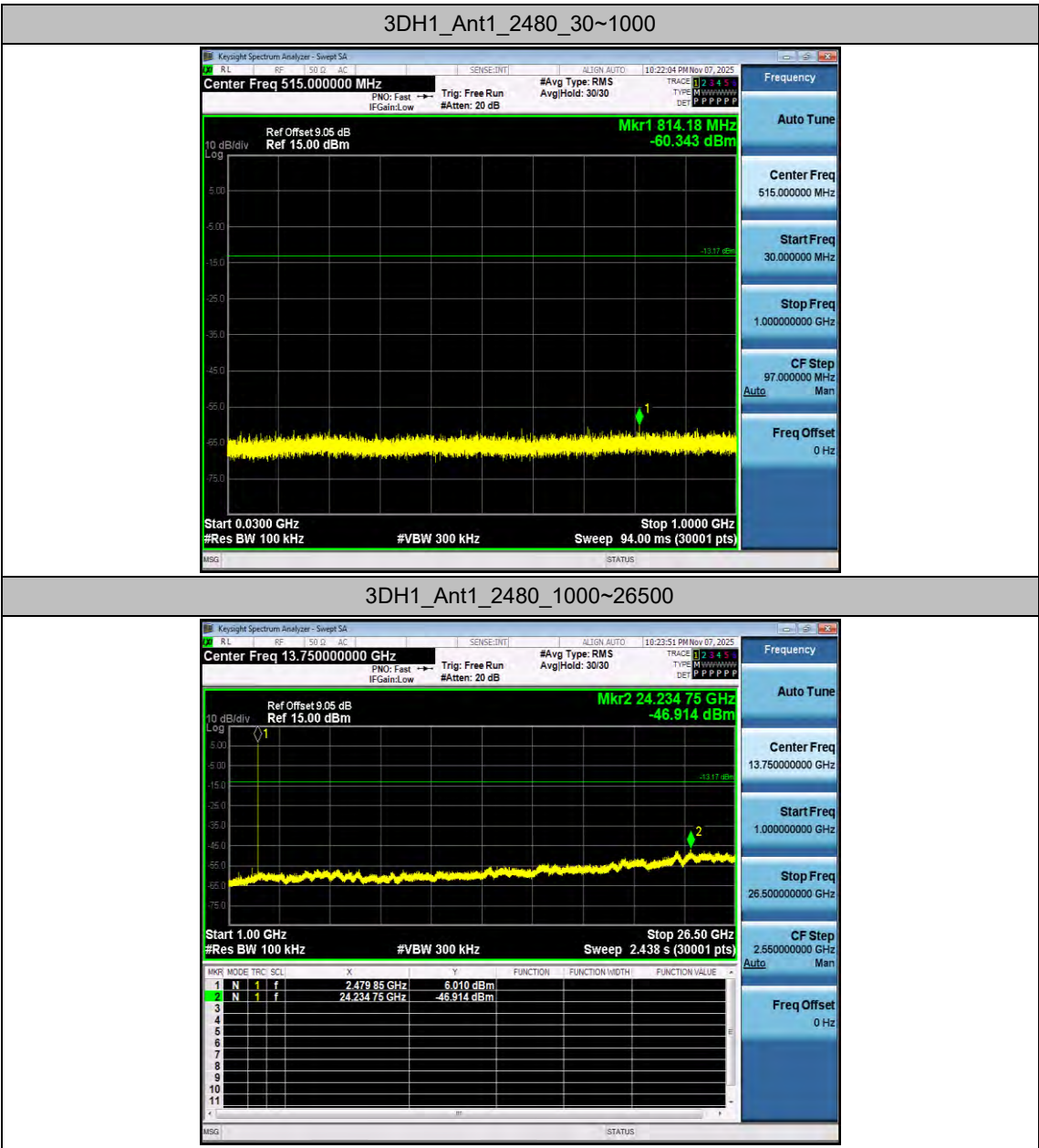


3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference





Appendix A.9: Emissions in Restricted Bands

Test Result

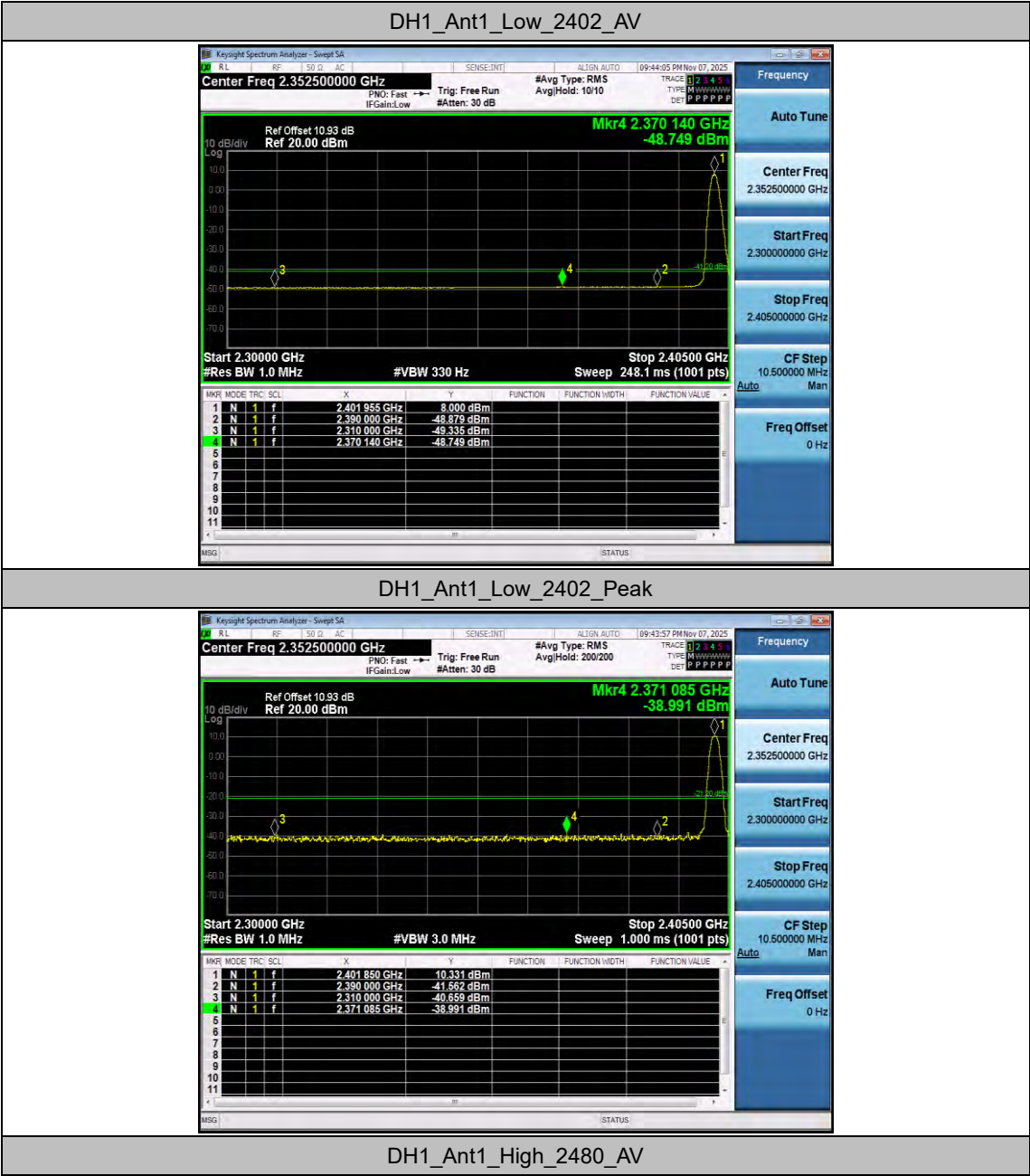
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.34	≤-41.20	45.86	≤54	PASS
				AV	2370.140	-48.75	≤-41.20	46.45	≤54	PASS
				AV	2390.000	-48.88	≤-41.20	46.32	≤54	PASS
				Peak	2310.000	-40.66	≤-21.20	54.54	≤74	PASS
				Peak	2371.085	-38.99	≤-21.20	56.21	≤74	PASS
				Peak	2390.000	-41.56	≤-21.20	53.64	≤74	PASS
		High	2480	AV	2483.500	-46.99	≤-41.20	48.21	≤54	PASS
				AV	2483.520	-46.99	≤-41.20	48.21	≤54	PASS
				AV	2500.000	-48.65	≤-41.20	46.55	≤54	PASS
				Peak	2483.500	-39.3	≤-21.20	55.90	≤74	PASS
				Peak	2487.040	-38.53	≤-21.20	56.67	≤74	PASS
				Peak	2500.000	-40.39	≤-21.20	54.81	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.14	≤-41.20	46.06	≤54	PASS
				AV	2387.570	-48.79	≤-41.20	46.41	≤54	PASS
				AV	2390.000	-48.91	≤-41.20	46.29	≤54	PASS
				Peak	2310.000	-41.28	≤-21.20	53.92	≤74	PASS
				Peak	2367.935	-38.51	≤-21.20	56.69	≤74	PASS
				Peak	2390.000	-42.12	≤-21.20	53.08	≤74	PASS
		High	2480	AV	2483.500	-46.86	≤-41.20	48.34	≤54	PASS
				AV	2483.520	-46.86	≤-41.20	48.34	≤54	PASS
				AV	2500.000	-48.58	≤-41.20	46.62	≤54	PASS
				Peak	2483.500	-39.75	≤-21.20	55.45	≤74	PASS
				Peak	2496.480	-37.95	≤-21.20	57.25	≤74	PASS
				Peak	2500.000	-40.31	≤-21.20	54.89	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.4	≤-41.20	45.80	≤54	PASS
				AV	2388.305	-48.79	≤-41.20	46.41	≤54	PASS
				AV	2390.000	-48.99	≤-41.20	46.21	≤54	PASS
				Peak	2310.000	-41.19	≤-21.20	54.01	≤74	PASS
				Peak	2365.940	-38.47	≤-21.20	56.73	≤74	PASS
				Peak	2390.000	-41.09	≤-21.20	54.11	≤74	PASS
		High	2480	AV	2483.500	-46.73	≤-41.20	48.47	≤54	PASS
				AV	2483.520	-46.73	≤-41.20	48.47	≤54	PASS
				AV	2500.000	-48.54	≤-41.20	46.66	≤54	PASS
				Peak	2483.500	-40.46	≤-21.20	54.74	≤74	PASS
				Peak	2498.080	-37.63	≤-21.20	57.57	≤74	PASS

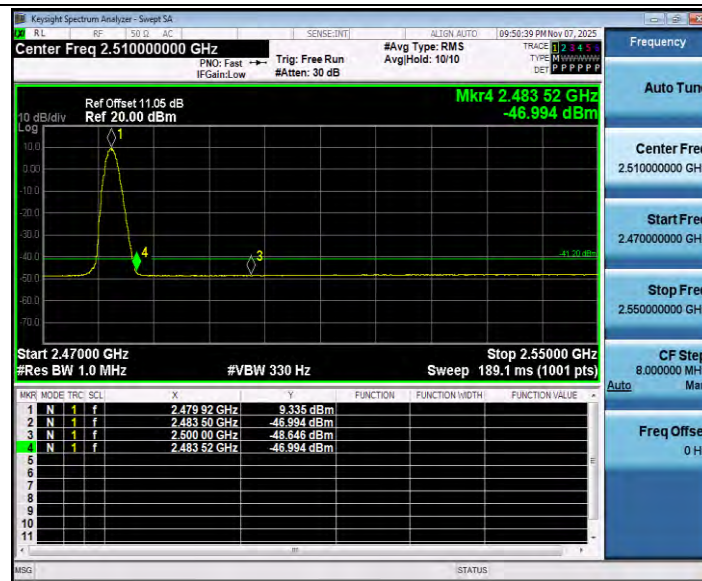
				Peak	2500.000	-42.39	≤-21.20	52.81	≤74	PASS
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Note:

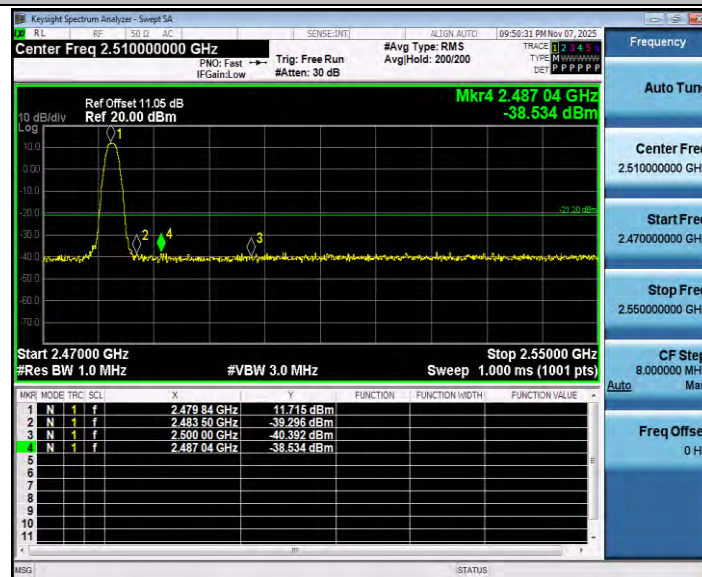
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

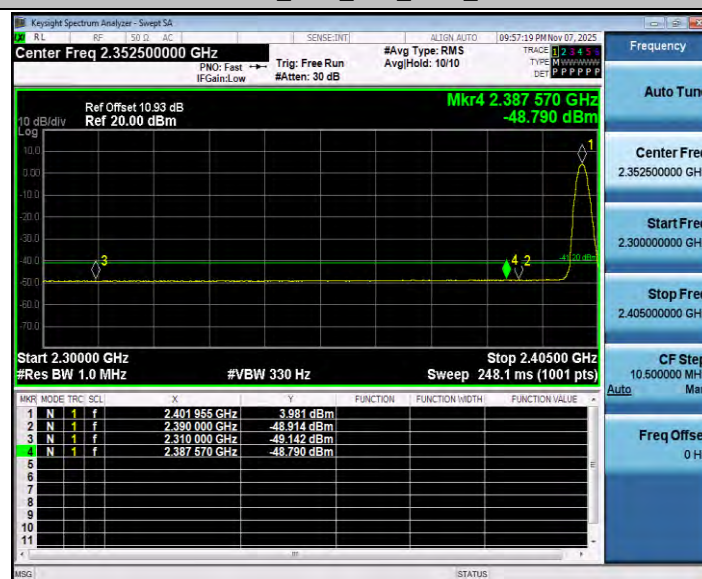




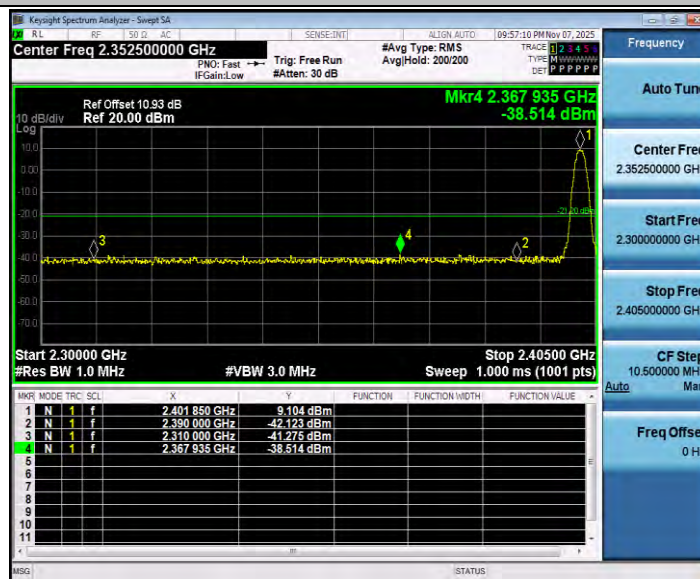
DH1_Ant1_High_2480_Peak



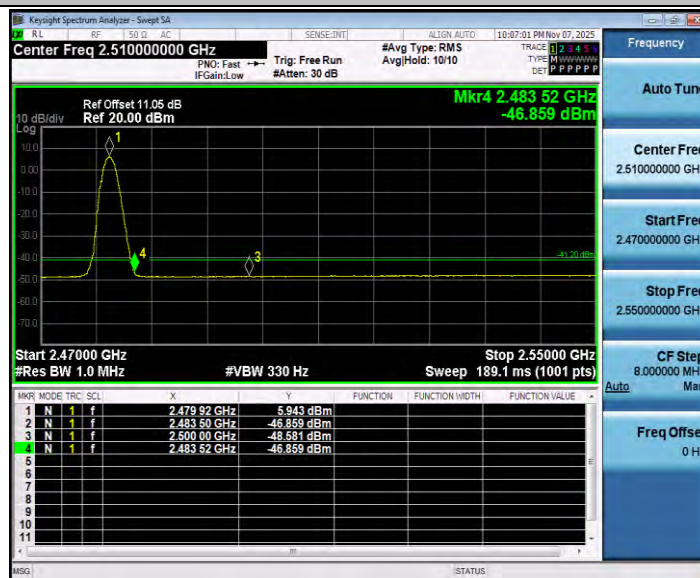
2DH1_Ant1_Low_2402_AV



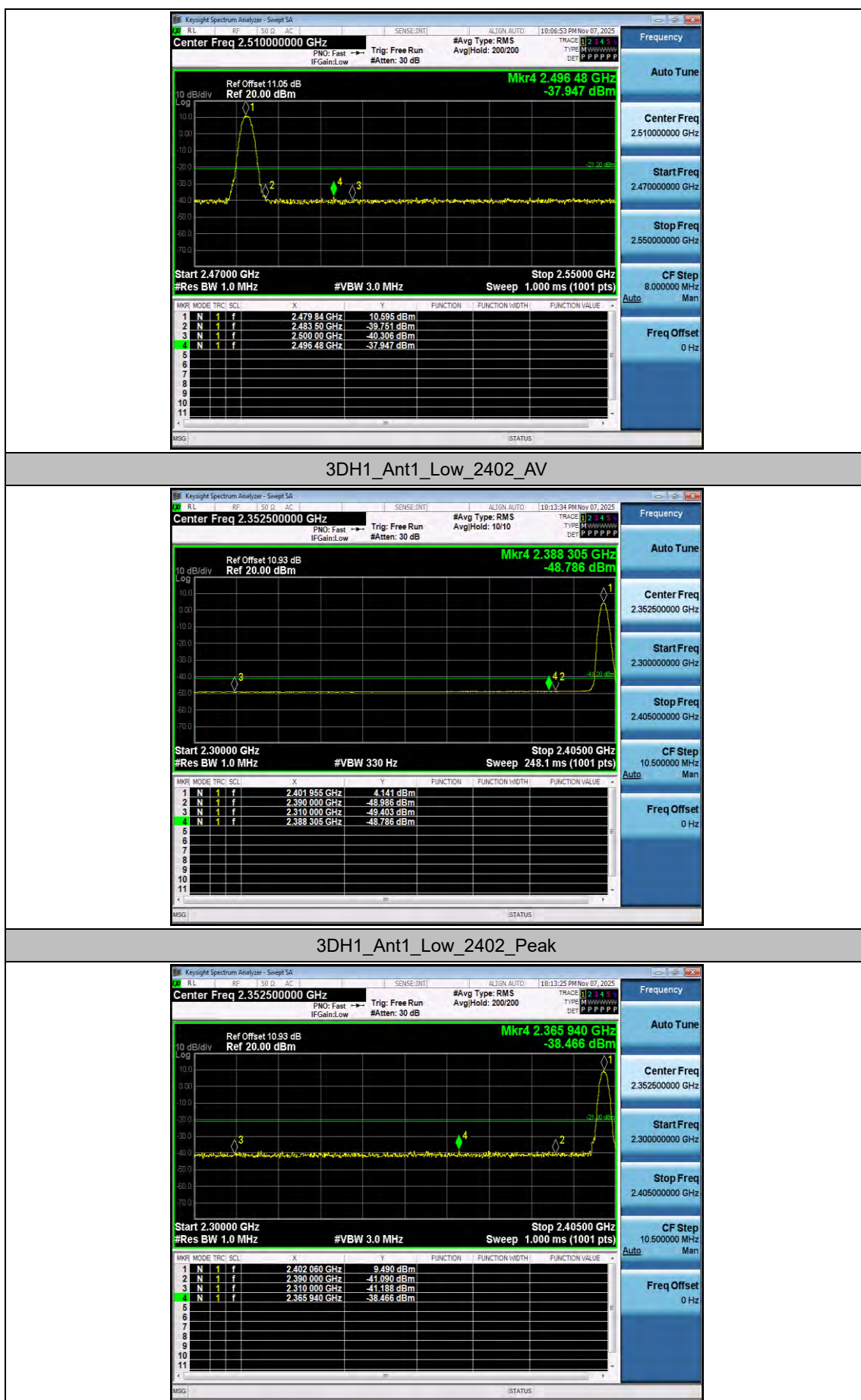
2DH1_Ant1_Low_2402_Peak



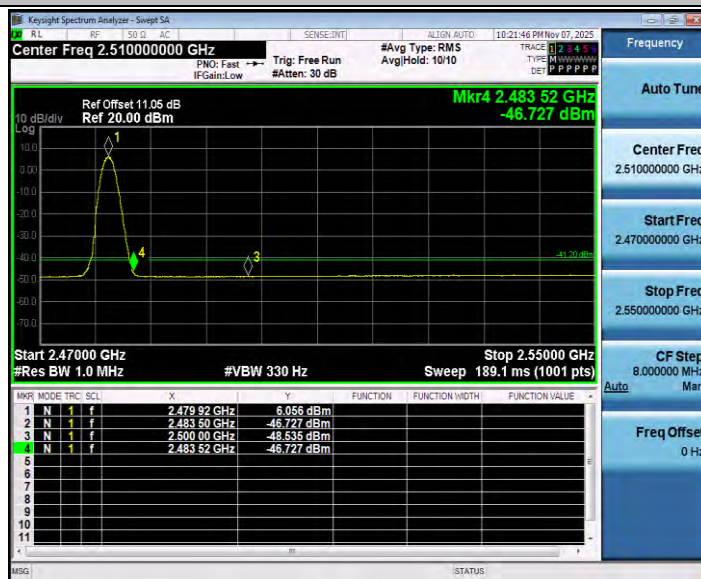
2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak



3DH1_Ant1_High_2480_AV



3DH1_Ant1_High_2480_Peak

