

Case No. : <u>GTS20251205010-1-01</u>	
Ambient Condition: <u>24</u> °C, <u>49</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.12.13</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	0.915	2401.571	2402.486	---	---
		2441	0.939	2440.553	2441.492	---	---
		2480	0.912	2479.553	2480.465	---	---
2DH1	Ant1	2402	1.296	2401.367	2402.663	---	---
		2441	1.314	2440.352	2441.666	---	---
		2480	1.305	2479.349	2480.654	---	---
3DH1	Ant1	2402	1.299	2401.358	2402.657	---	---
		2441	1.272	2440.373	2441.645	---	---
		2480	1.287	2479.370	2480.657	---	---

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

Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.83903	2401.5963	2402.4354	---	---
		2441	0.83857	2440.6024	2441.4410	---	---
		2480	0.84106	2479.5968	2480.4378	---	---
2DH1	Ant1	2402	1.1790	2401.4159	2402.5949	---	---
		2441	1.1782	2440.4150	2441.5932	---	---
		2480	1.1809	2479.4158	2480.5967	---	---
3DH1	Ant1	2402	1.1659	2401.4393	2402.6052	---	---
		2441	1.1662	2440.4402	2441.6064	---	---
		2480	1.1620	2479.4467	2480.6087	---	---

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



Appendix A.3: Maximum conducted output power

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	2.90	≤ 20.97	PASS
		2441	2.58	≤ 20.97	PASS
		2480	2.16	≤ 20.97	PASS
2DH1	Ant1	2402	2.31	≤ 20.97	PASS
		2441	2.03	≤ 20.97	PASS
		2480	1.65	≤ 20.97	PASS
3DH1	Ant1	2402	2.51	≤ 20.97	PASS
		2441	2.28	≤ 20.97	PASS
		2480	1.94	≤ 20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.994	≥ 0.626	PASS
		Hop_2441	0.882	≥ 0.626	PASS
		Hop_2480	1.024	≥ 0.626	PASS
2DH1	Ant1	Hop_2402	1.004	≥ 0.876	PASS
		Hop_2441	0.994	≥ 0.876	PASS
		Hop_2480	1.016	≥ 0.876	PASS
3DH1	Ant1	Hop_2402	1.01	≥ 0.866	PASS
		Hop_2441	1.014	≥ 0.866	PASS
		Hop_2480	1.14	≥ 0.866	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

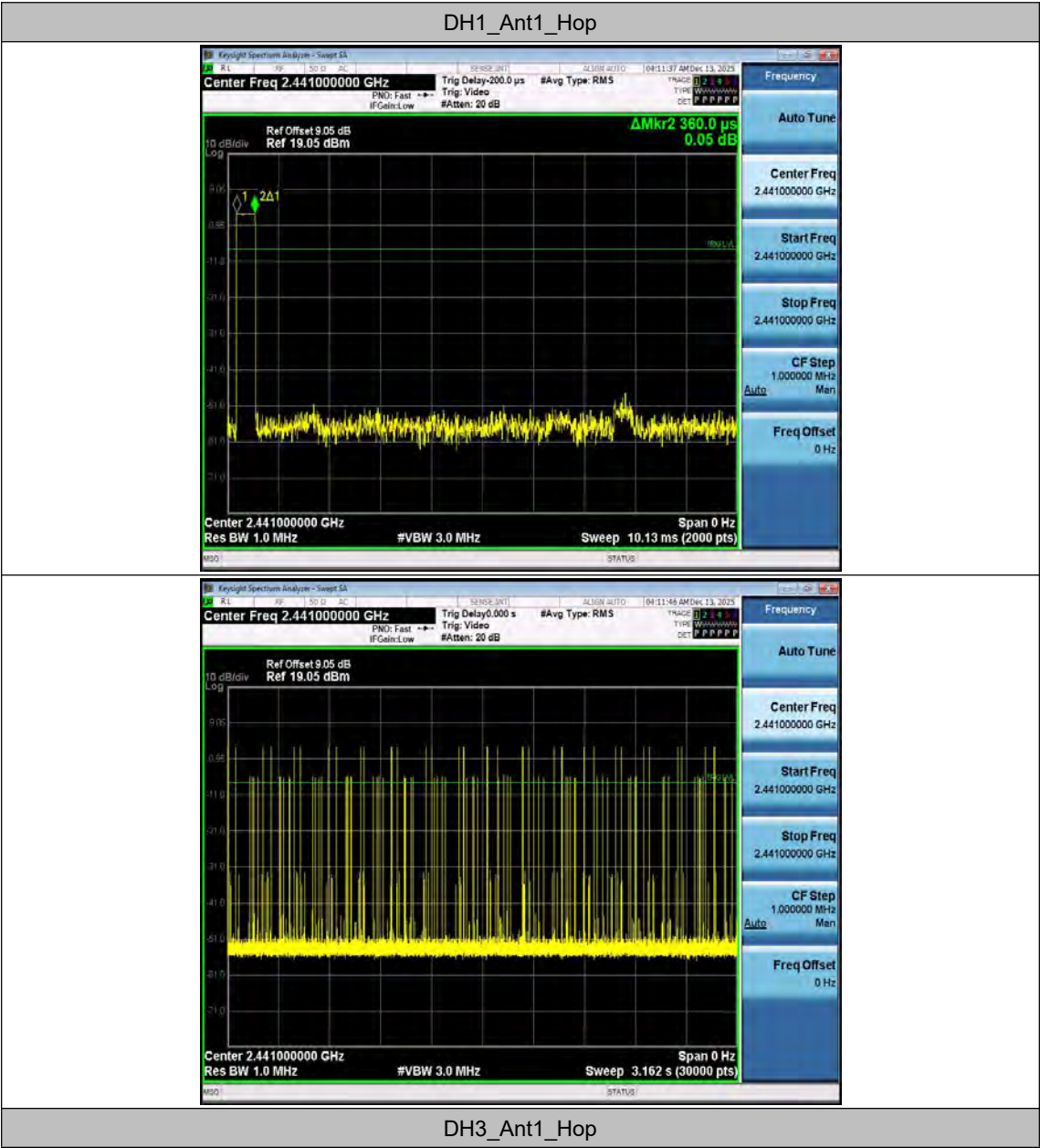
The screenshot displays a Keysight Spectrum Analyzer interface. The main plot shows a noise floor with a peak at 2.4785 GHz, labeled with a green diamond and '2d1'. The peak is at 1.140 MHz relative to the center frequency, with a magnitude of -0.46 dB. The plot is in dBm/Hz, ranging from -10 to -40 dBm/Hz. The center frequency is 2.479500000 GHz. The plot is titled 'Center Freq 2.479500000 GHz'. The plot is titled 'Center Freq 2.479500000 GHz'. The plot is titled 'Center Freq 2.479500000 GHz'.

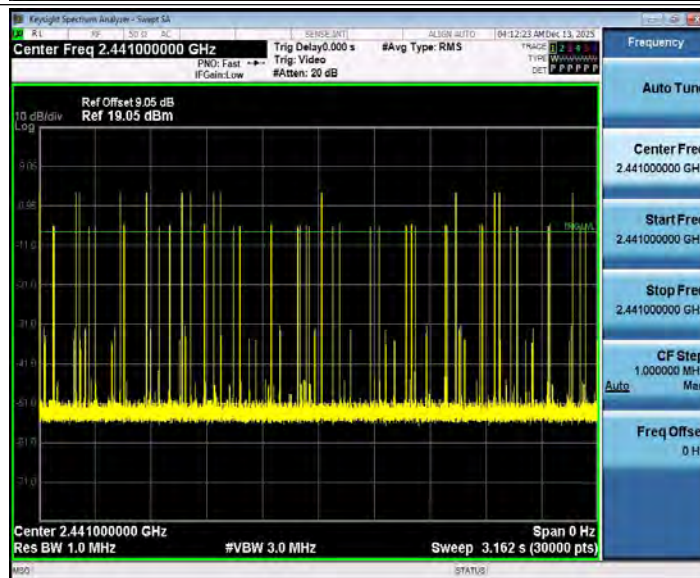
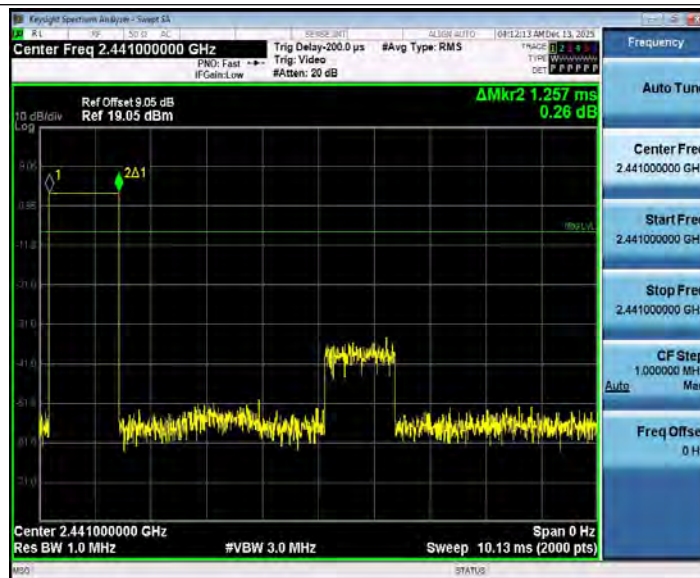
Appendix A.5: Time of occupancy

Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.360	320	0.115	≤0.4	PASS
DH3	Ant1	Hop	1.257	140	0.176	≤0.4	PASS
DH5	Ant1	Hop	2.863	70	0.2	≤0.4	PASS
2DH1	Ant1	Hop	0.360	320	0.115	≤0.4	PASS
2DH3	Ant1	Hop	1.251	170	0.213	≤0.4	PASS
2DH5	Ant1	Hop	2.863	90	0.258	≤0.4	PASS
3DH1	Ant1	Hop	0.355	330	0.117	≤0.4	PASS
3DH3	Ant1	Hop	1.257	190	0.239	≤0.4	PASS
3DH5	Ant1	Hop	2.863	120	0.344	≤0.4	PASS

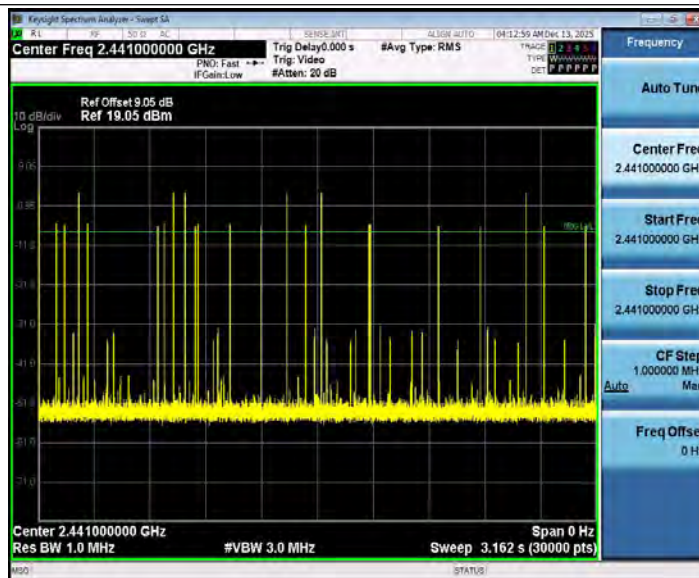
Test Graphs



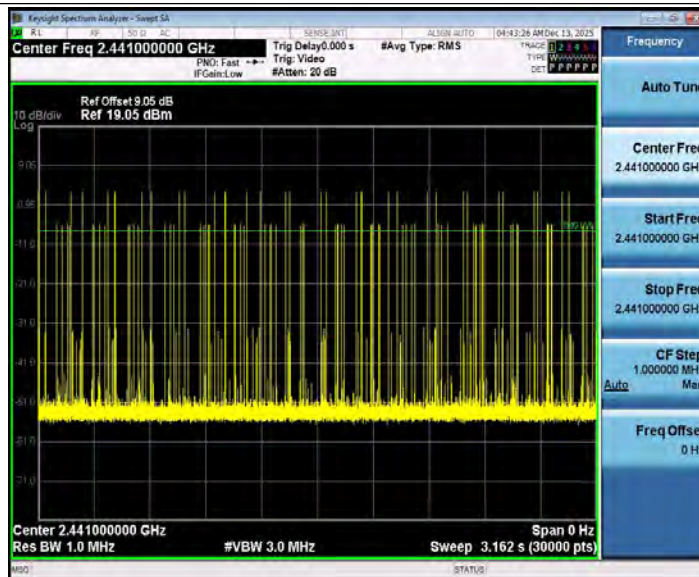
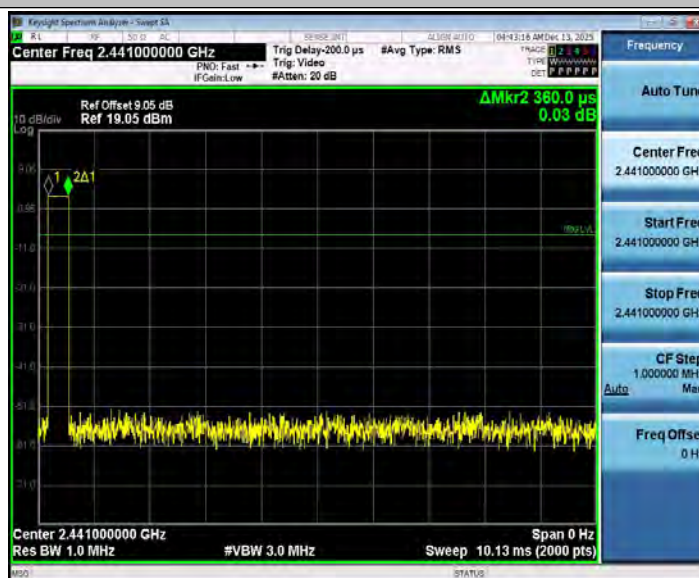


DH5_Ant1_Hop

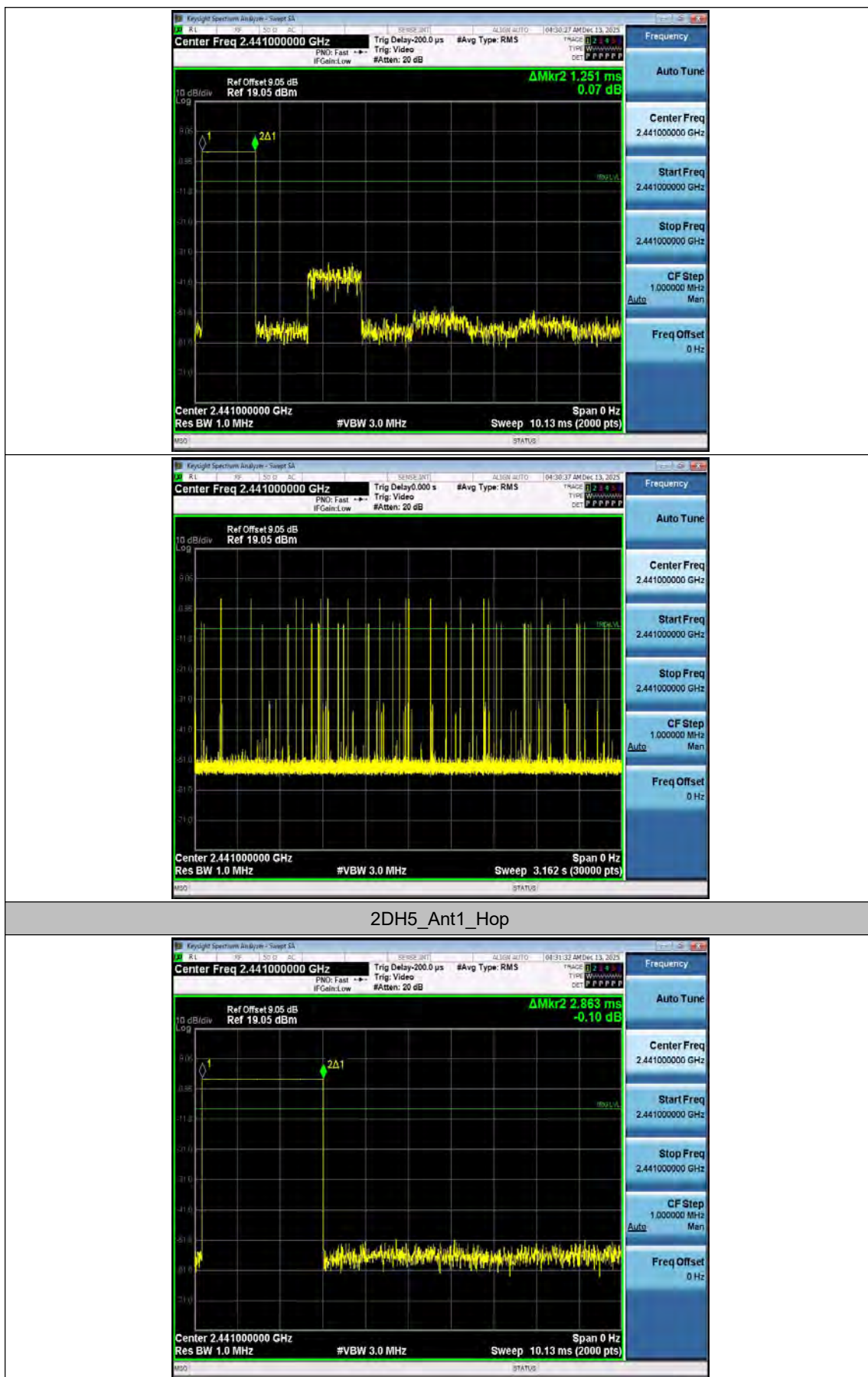


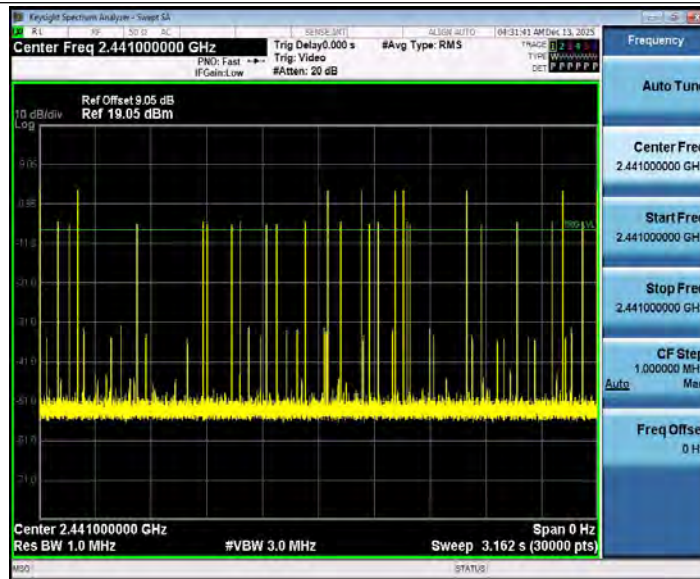


2DH1_Ant1_Hop

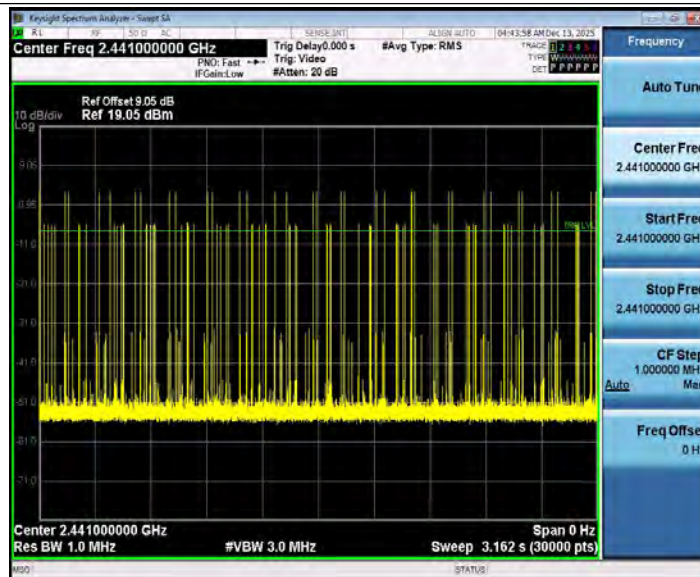


2DH3_Ant1_Hop

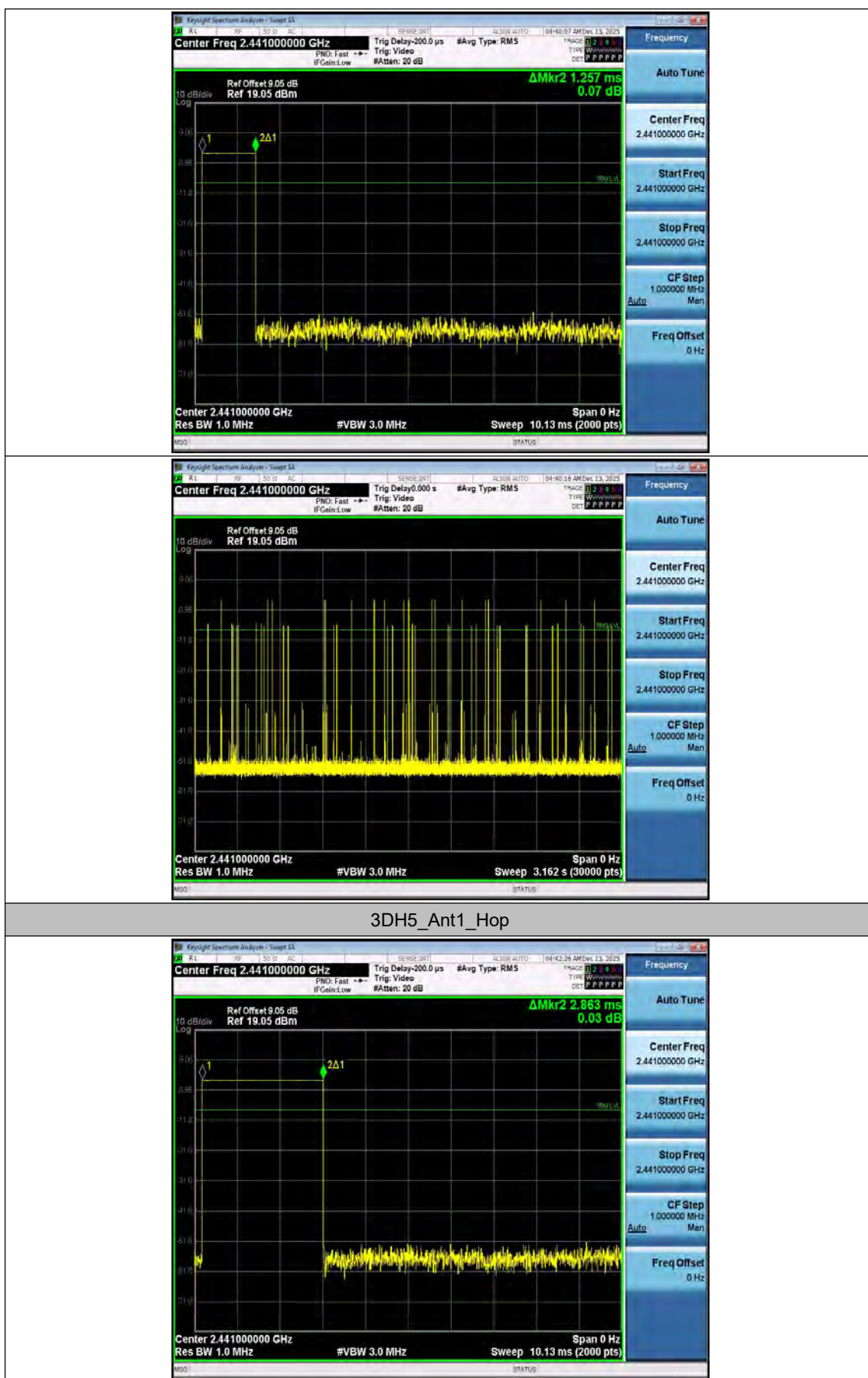


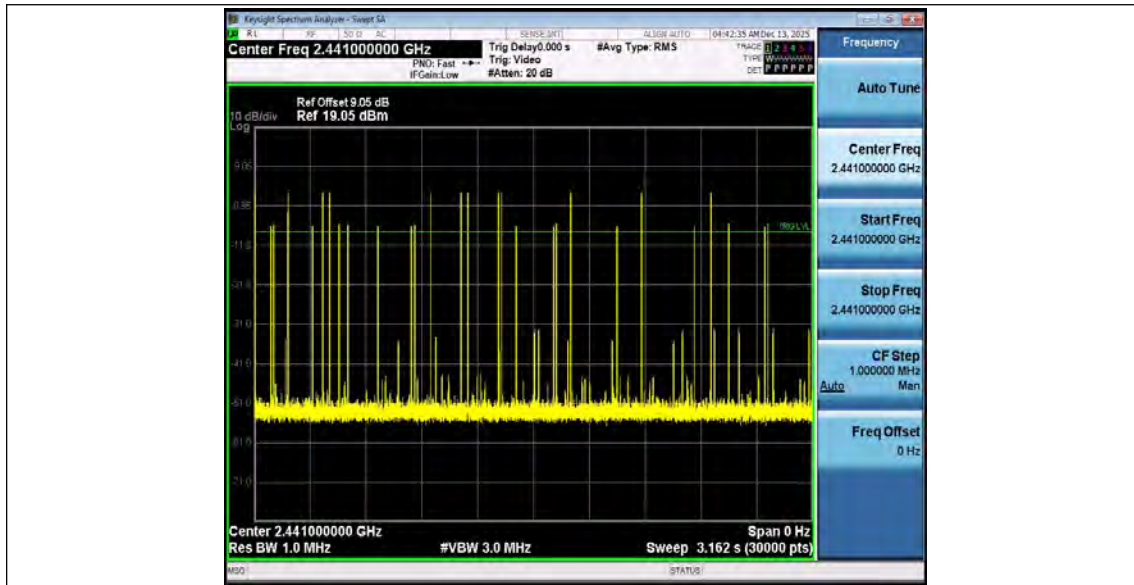


3DH1_Ant1_Hop



3DH3_Ant1_Hop





Appendix A.6: Number of hopping channels

Test Result

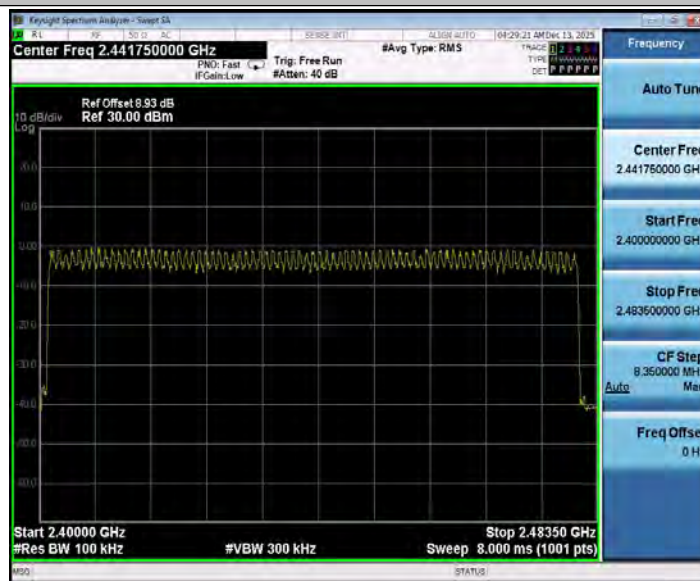
TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

Test Graphs

DH1_Ant1_Hop



2DH1_Ant1_Hop



3DH1_Ant1_Hop



Appendix A.7: Band edge measurements

Test Result

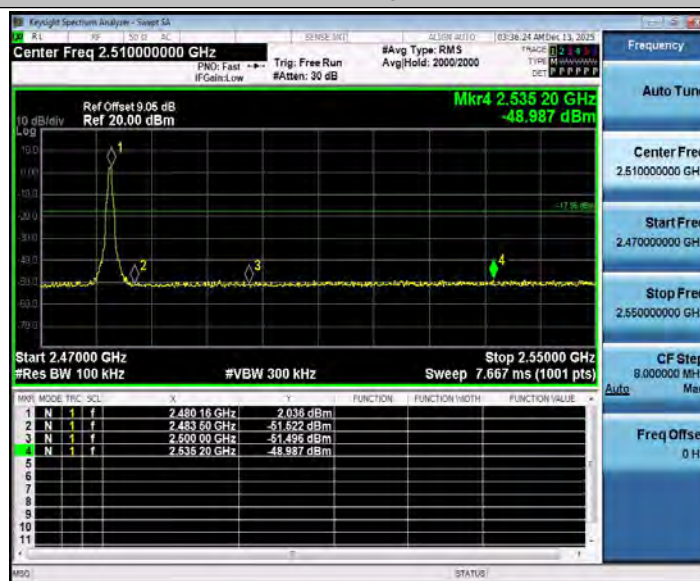
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	2.78	-43.78	≤ -17.23	PASS
		High	2480	2.04	-48.99	≤ -17.96	PASS
		Low	Hop_2402	2.46	-46.62	≤ -17.54	PASS
		High	Hop_2480	2.26	-48.4	≤ -17.74	PASS
2DH1	Ant1	Low	2402	-0.69	-46.13	≤ -20.69	PASS
		High	2480	-1.37	-48.63	≤ -21.37	PASS
		Low	Hop_2402	-1.65	-48.4	≤ -21.65	PASS
		High	Hop_2480	-0.98	-48.91	≤ -20.98	PASS
3DH1	Ant1	Low	2402	-0.60	-47.72	≤ -20.6	PASS
		High	2480	-1.33	-47.92	≤ -21.33	PASS
		Low	Hop_2402	-0.67	-49.19	≤ -20.67	PASS
		High	Hop_2480	-0.80	-48.14	≤ -20.8	PASS

Test Graphs

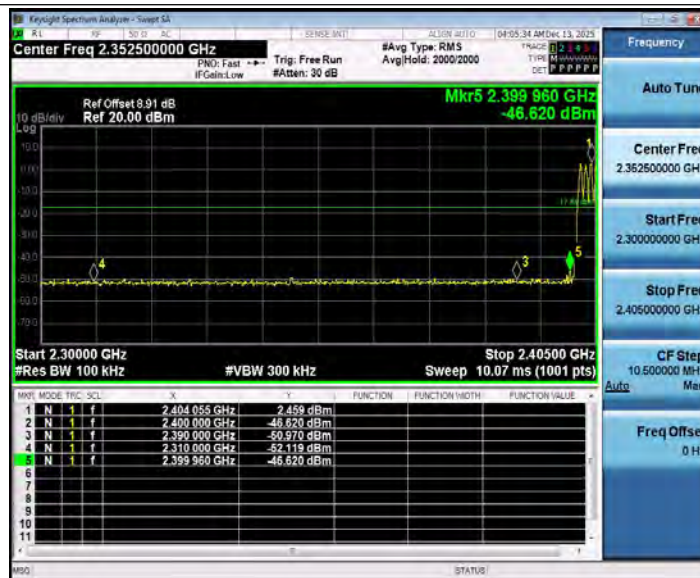
DH1_Ant1_Low_2402



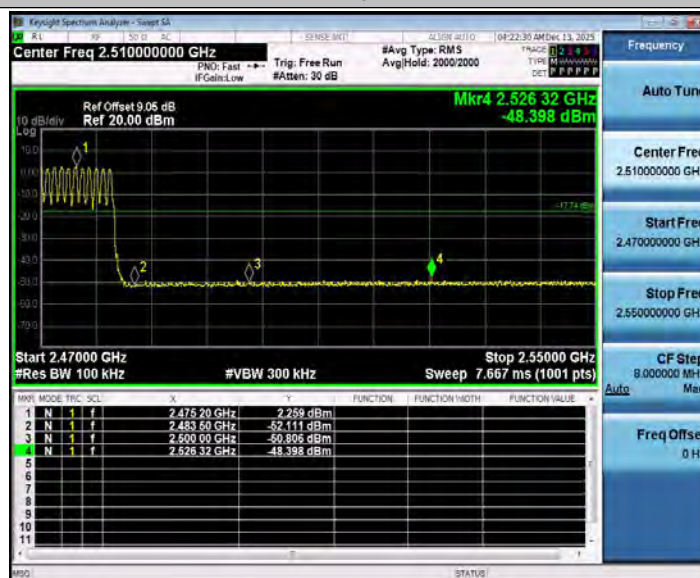
DH1_Ant1_High_2480



DH1_Ant1_Low_Hop_2402



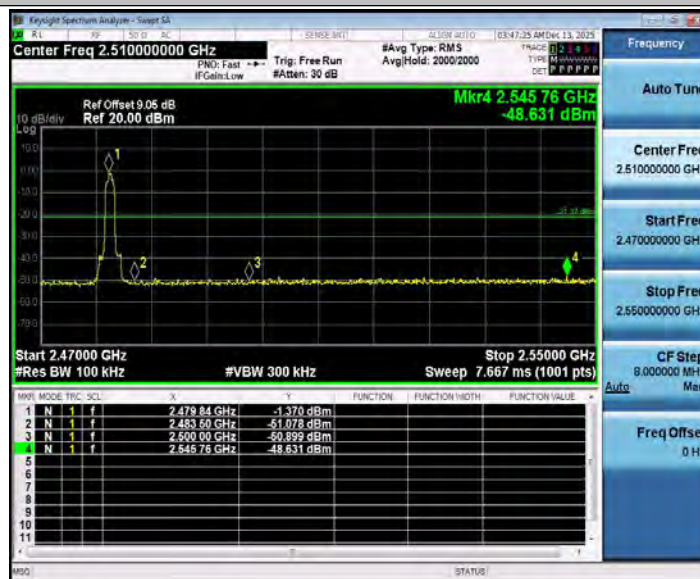
DH1_Ant1_High_Hop_2480



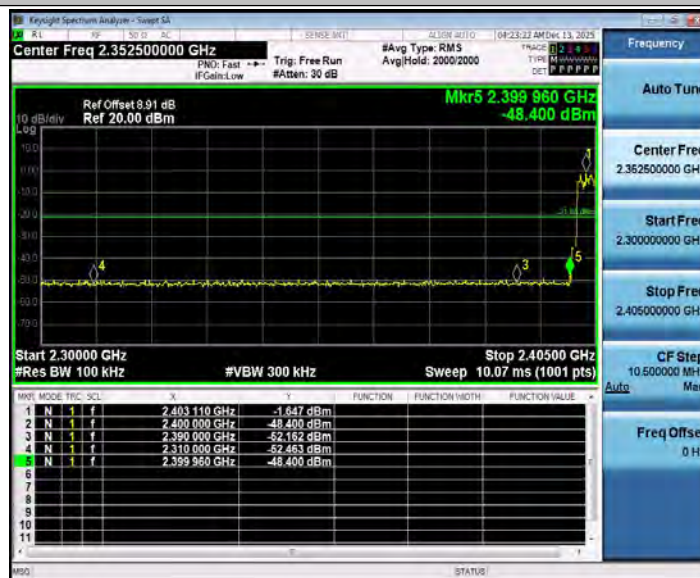
2DH1_Ant1_Low_2402



2DH1_Ant1_High_2480



2DH1_Ant1_Low_Hop_2402



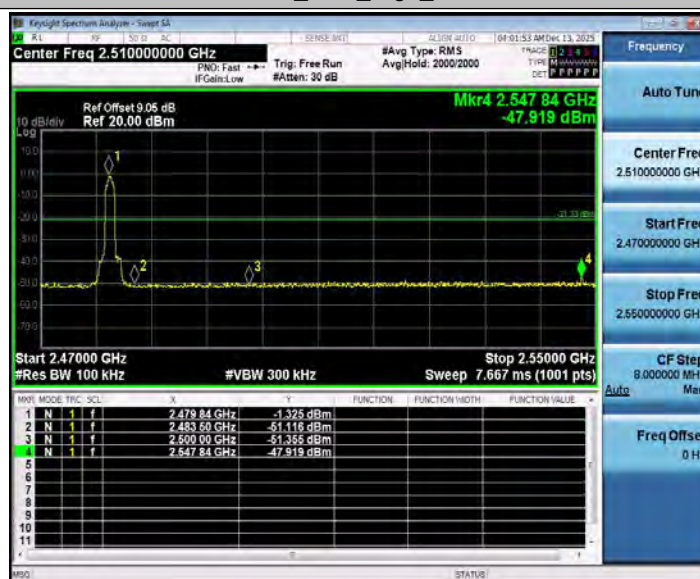
2DH1_Ant1_High_Hop_2480



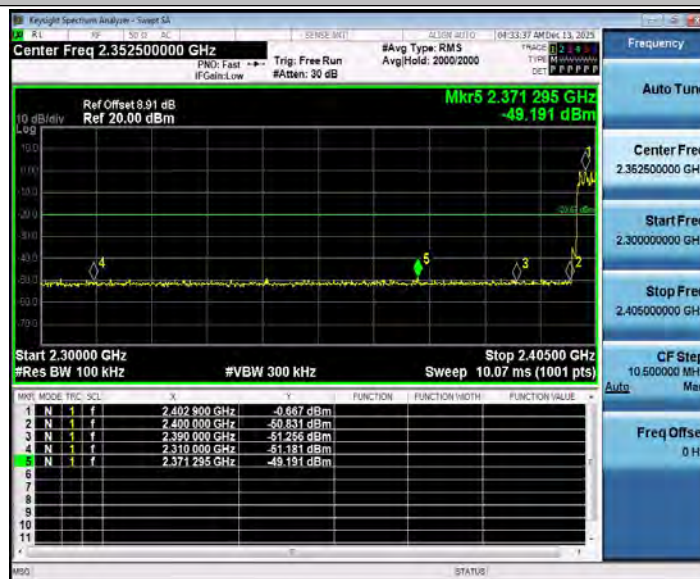
3DH1_Ant1_Low_2402



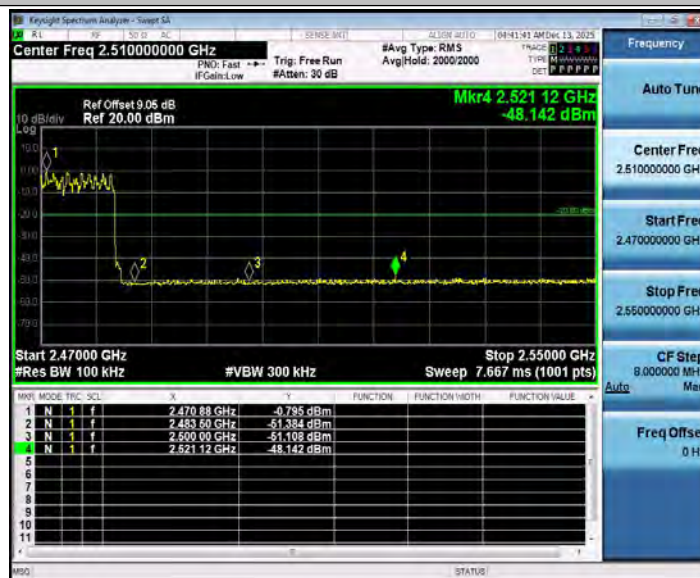
3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480



Appendix A.8: Conducted Spurious Emission

Test Result

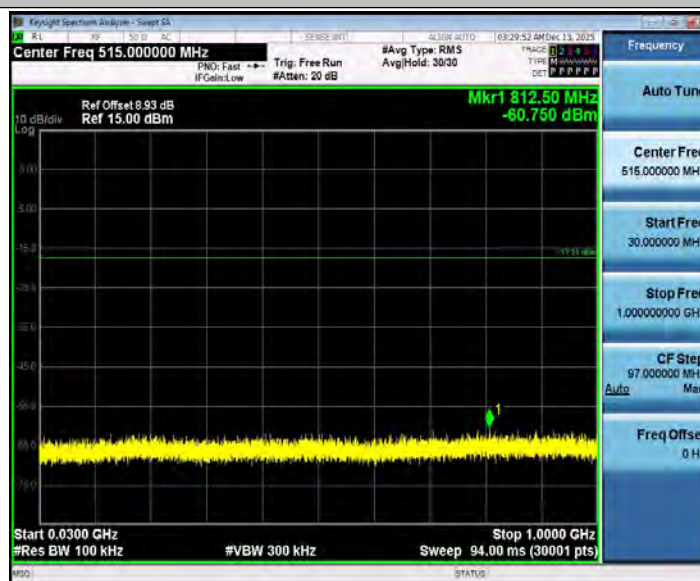
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	2.49	2.49	---	PASS
			30~1000	2.49	-60.75	≤-17.51	PASS
			1000~26500	2.49	-48.21	≤-17.51	PASS
		2441	Reference	2.17	2.17	---	PASS
			30~1000	2.17	-60.45	≤-17.83	PASS
			1000~26500	2.17	-47.52	≤-17.83	PASS
		2480	Reference	1.77	1.77	---	PASS
			30~1000	1.77	-61.05	≤-18.23	PASS
			1000~26500	1.77	-47.72	≤-18.23	PASS
2DH1	Ant1	2402	Reference	-0.86	-0.86	---	PASS
			30~1000	-0.86	-60.9	≤-20.86	PASS
			1000~26500	-0.86	-47.59	≤-20.86	PASS
		2441	Reference	-1.18	-1.18	---	PASS
			30~1000	-1.18	-60.65	≤-21.18	PASS
			1000~26500	-1.18	-47.62	≤-21.18	PASS
		2480	Reference	-1.53	-1.53	---	PASS
			30~1000	-1.53	-60.64	≤-21.53	PASS
			1000~26500	-1.53	-47.62	≤-21.53	PASS
3DH1	Ant1	2402	Reference	-0.67	-0.67	---	PASS
			30~1000	-0.67	-60.27	≤-20.67	PASS
			1000~26500	-0.67	-48.08	≤-20.67	PASS
		2441	Reference	-1.00	-1.00	---	PASS
			30~1000	-1.00	-60.87	≤-21	PASS
			1000~26500	-1.00	-47.36	≤-21	PASS
		2480	Reference	-1.37	-1.37	---	PASS
			30~1000	-1.37	-60.47	≤-21.37	PASS
			1000~26500	-1.37	-47.6	≤-21.37	PASS

Test Graphs

DH1_Ant1_2402_0~Reference



DH1_Ant1_2402_30~1000



DH1_Ant1_2402_1000~26500



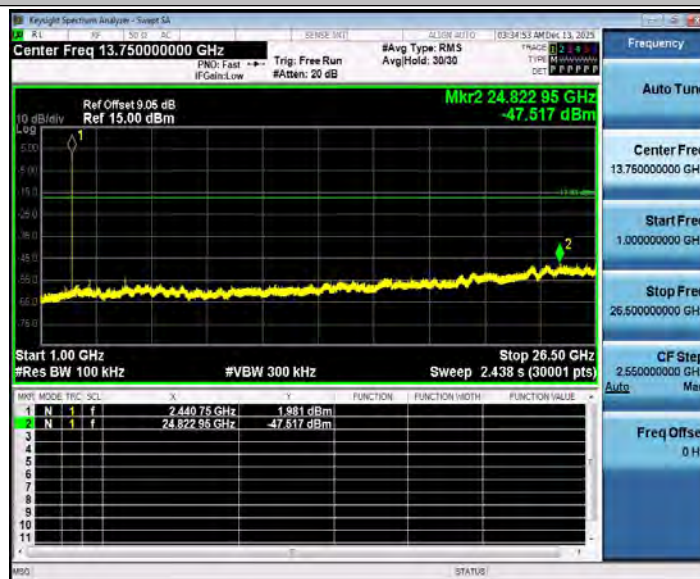
DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



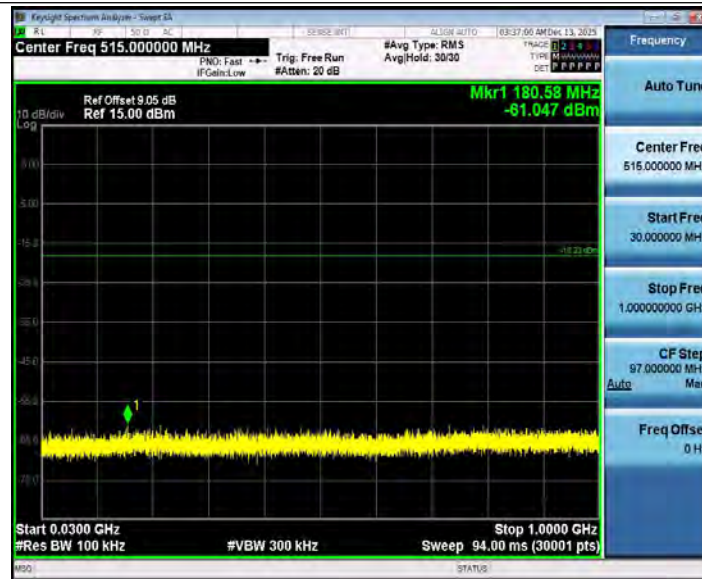
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000



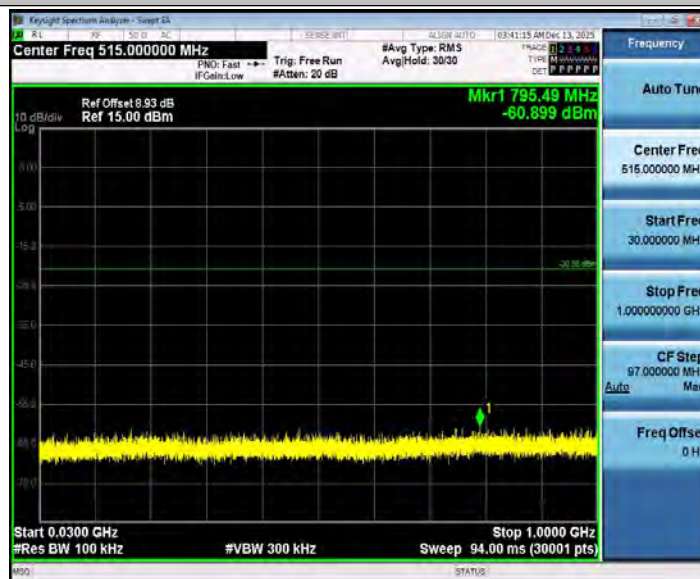
DH1_Ant1_2480_1000~26500



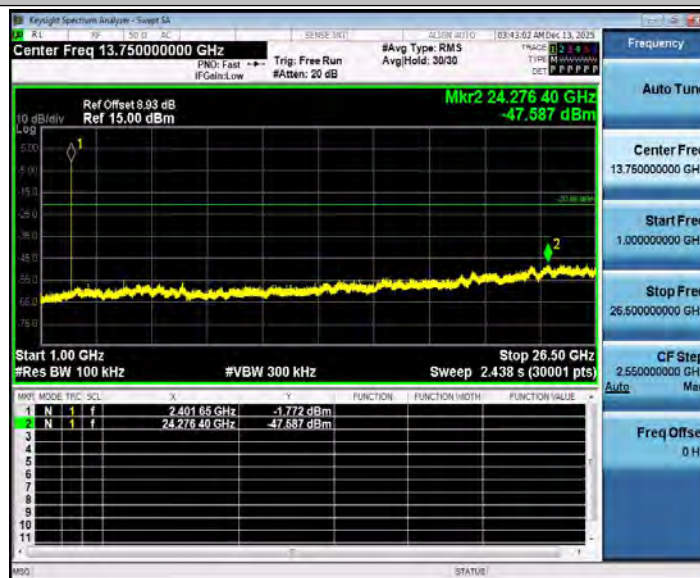
2DH1_Ant1_2402_0~Reference



2DH1_Ant1_2402_30~1000



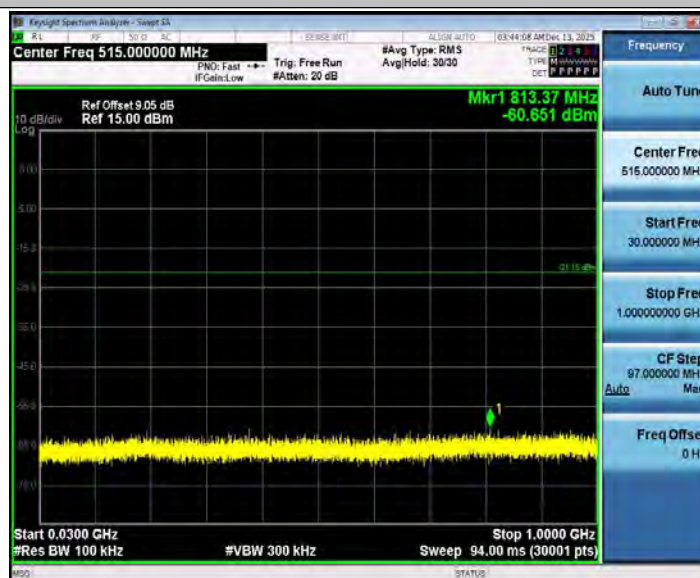
2DH1_Ant1_2402_1000~26500



2DH1_Ant1_2441_0~Reference



2DH1_Ant1_2441_30~1000



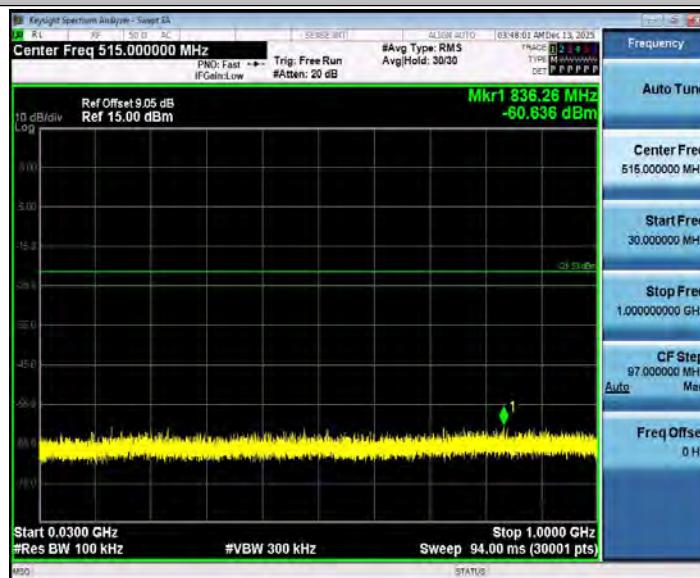
2DH1_Ant1_2441_1000~26500



2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



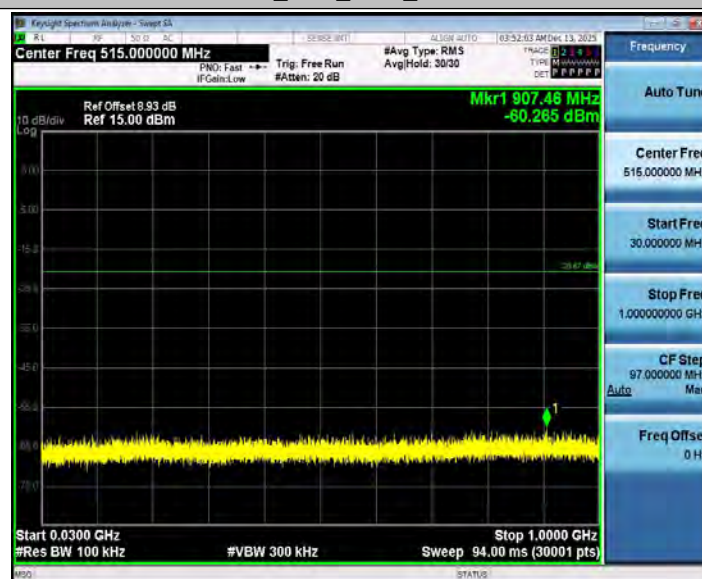
2DH1_Ant1_2480_1000~26500



3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



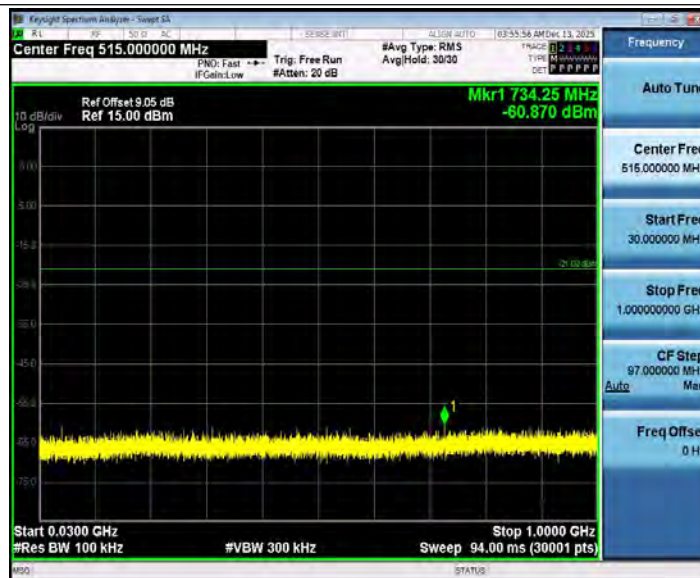
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000



3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500



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	-49.31	≤-41.20	45.89	≤54	PASS
				AV	2387.360	-48.85	≤-41.20	46.35	≤54	PASS
				AV	2390.000	-48.97	≤-41.20	46.23	≤54	PASS
				Peak	2310.000	-40.83	≤-21.20	54.37	≤74	PASS
				Peak	2368.460	-37.72	≤-21.20	57.48	≤74	PASS
				Peak	2390.000	-40.86	≤-21.20	54.34	≤74	PASS
		High	2480	AV	2483.500	-48.41	≤-41.20	46.79	≤54	PASS
				AV	2483.520	-48.41	≤-41.20	46.79	≤54	PASS
				AV	2500.000	-48.63	≤-41.20	46.57	≤54	PASS
				Peak	2483.500	-41.12	≤-21.20	54.08	≤74	PASS
				Peak	2487.920	-38.72	≤-21.20	56.48	≤74	PASS
				Peak	2500.000	-40.47	≤-21.20	54.73	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.34	≤-41.20	45.86	≤54	PASS
				AV	2389.040	-48.79	≤-41.20	46.41	≤54	PASS
				AV	2390.000	-48.99	≤-41.20	46.21	≤54	PASS
				Peak	2310.000	-40.85	≤-21.20	54.35	≤74	PASS
				Peak	2318.900	-38.64	≤-21.20	56.56	≤74	PASS
				Peak	2390.000	-41.38	≤-21.20	53.82	≤74	PASS
		High	2480	AV	2483.500	-48.59	≤-41.20	46.61	≤54	PASS
				AV	2498.240	-48.54	≤-41.20	46.66	≤54	PASS
				AV	2500.000	-48.7	≤-41.20	46.50	≤54	PASS
				Peak	2483.500	-40.94	≤-21.20	54.26	≤74	PASS
				Peak	2494.960	-38.74	≤-21.20	56.46	≤74	PASS
				Peak	2500.000	-39.6	≤-21.20	55.60	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.25	≤-41.20	45.95	≤54	PASS
				AV	2384.945	-48.83	≤-41.20	46.37	≤54	PASS
				AV	2390.000	-48.98	≤-41.20	46.22	≤54	PASS
				Peak	2310.000	-41.27	≤-21.20	53.93	≤74	PASS
				Peak	2362.895	-38.81	≤-21.20	56.39	≤74	PASS
				Peak	2390.000	-40.98	≤-21.20	54.22	≤74	PASS
		High	2480	AV	2483.500	-48.51	≤-41.20	46.69	≤54	PASS
				AV	2483.520	-48.51	≤-41.20	46.69	≤54	PASS
				AV	2500.000	-48.67	≤-41.20	46.53	≤54	PASS
				Peak	2483.500	-40.33	≤-21.20	54.87	≤74	PASS
				Peak	2492.560	-38.98	≤-21.20	56.22	≤74	PASS
				Peak	2500.000	-40.44	≤-21.20	54.76	≤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_Low_2402_AV



DH1_Ant1_Low_2402_Peak



DH1_Ant1_High_2480_AV



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_Low_2402_AV



3DH1_Ant1_Low_2402_Peak



3DH1_Ant1_High_2480_AV



3DH1_Ant1_High_2480_Peak

