

FCC Appendix RF Test Data for BT

FCC ID : 2AJU8-RG34XXSP

Company : Shenzhen Yangliming Electronic Technology Co., Ltd.

EUT : Handheld Game Console

Model Number : RG 34XXSP

Report No. : CTA26060900901

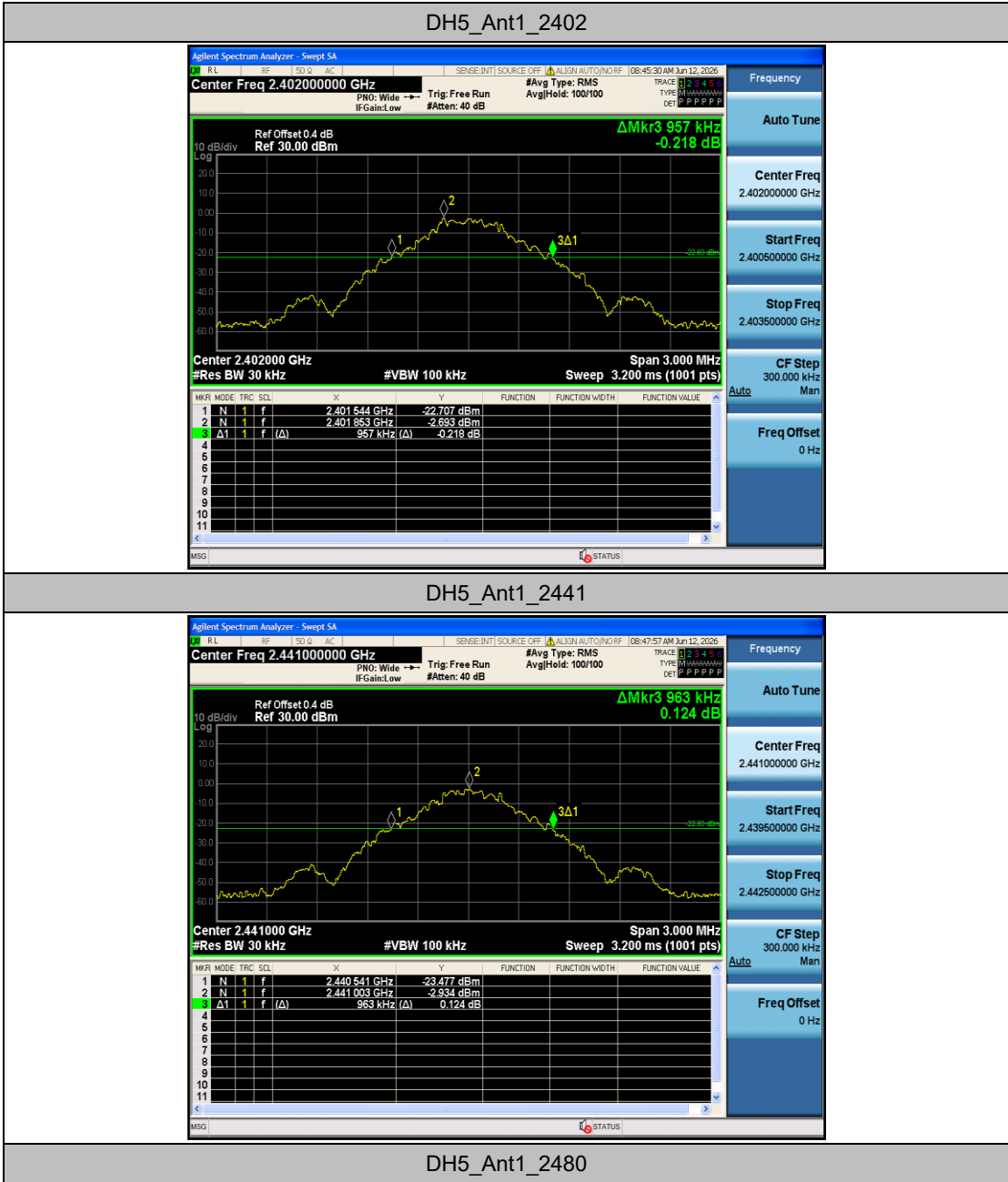
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.957	2401.544	2402.501	---	---
		2441	0.963	2440.541	2441.504	---	---
		2480	0.963	2479.541	2480.504	---	---
2DH5	Ant1	2402	1.317	2401.352	2402.669	---	---
		2441	1.332	2440.340	2441.672	---	---
		2480	1.341	2479.340	2480.681	---	---
3DH5	Ant1	2402	1.281	2401.364	2402.645	---	---
		2441	1.320	2440.355	2441.675	---	---
		2480	1.314	2479.358	2480.672	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

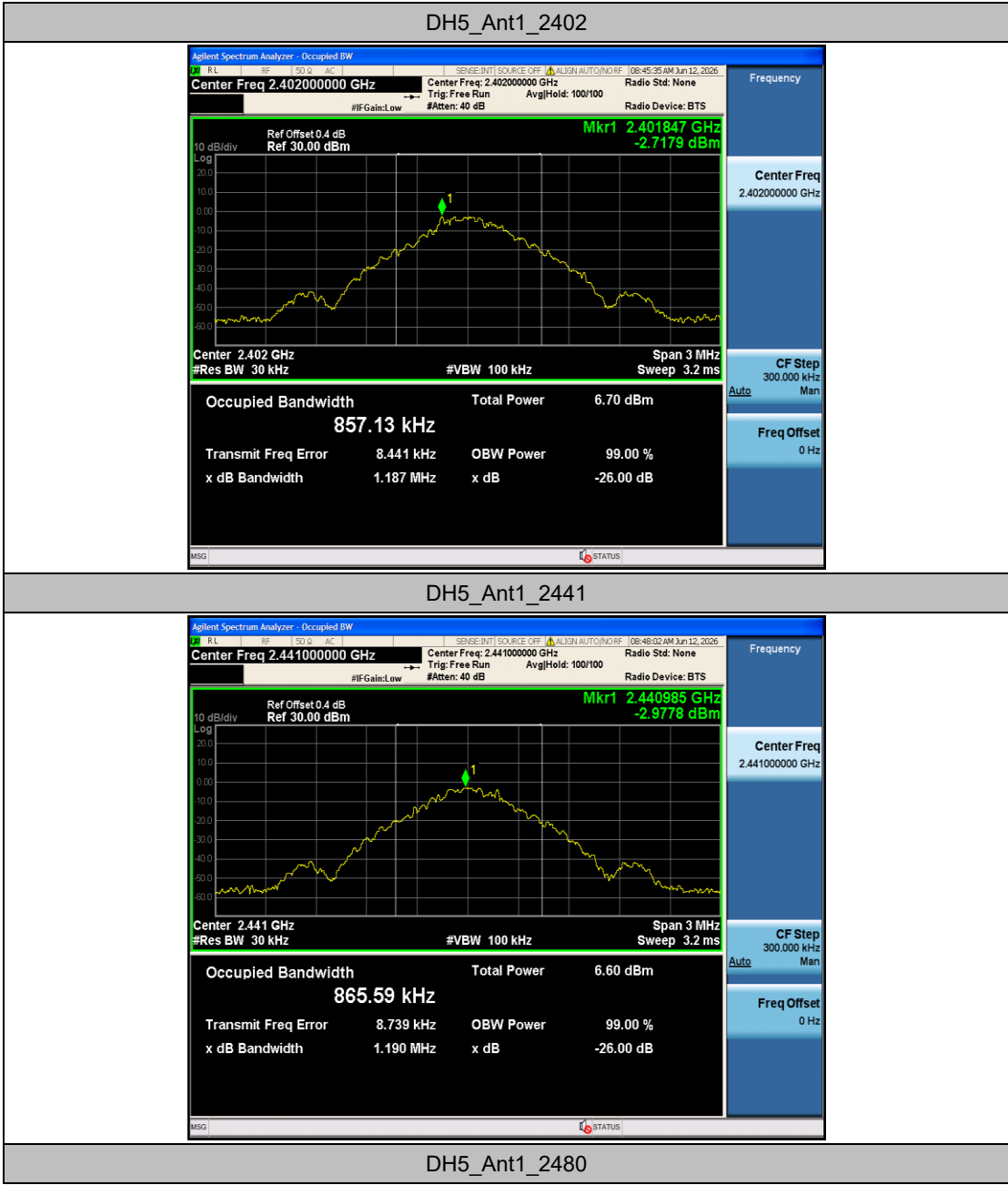


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85713	2401.5799	2402.4370	---	---
		2441	0.86559	2440.5759	2441.4415	---	---
		2480	0.86168	2479.5789	2480.4406	---	---
2DH5	Ant1	2402	1.1896	2401.4167	2402.6063	---	---
		2441	1.2034	2440.4100	2441.6134	---	---
		2480	1.2028	2479.4097	2480.6125	---	---
3DH5	Ant1	2402	1.1884	2401.4197	2402.6081	---	---
		2441	1.1849	2440.4208	2441.6057	---	---
		2480	1.1848	2479.4250	2480.6098	---	---

Test Graphs





2DH5_Ant1_2402



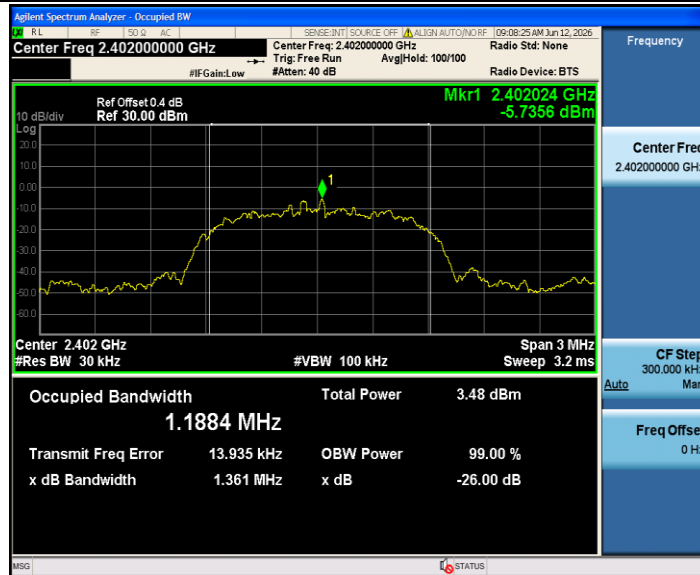
2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.15	≤20.97	PASS
		2441	0.09	≤20.97	PASS
		2480	-0.12	≤20.97	PASS
2DH5	Ant1	2402	-0.73	≤20.97	PASS
		2441	-0.78	≤20.97	PASS
		2480	-1.01	≤20.97	PASS
3DH5	Ant1	2402	-0.35	≤20.97	PASS
		2441	-0.47	≤20.97	PASS
		2480	-0.64	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.98	≥ 0.963	PASS
2DH5	Ant1	Hop	0.968	≥ 0.894	PASS
3DH5	Ant1	Hop	1.0	≥ 0.880	PASS

Test Graphs





Appendix E: Time of occupancy

Test Result

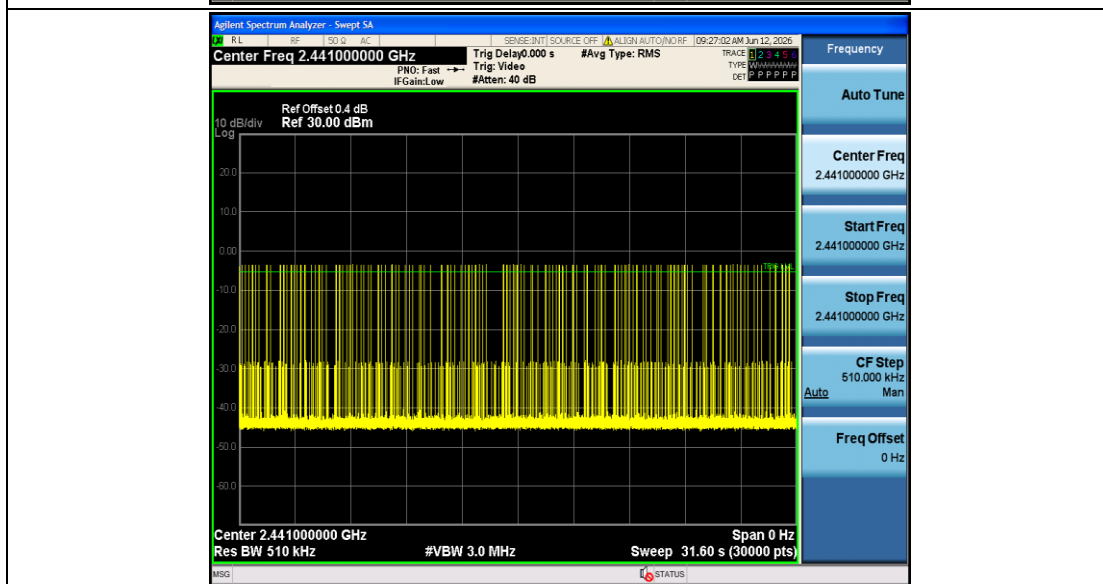
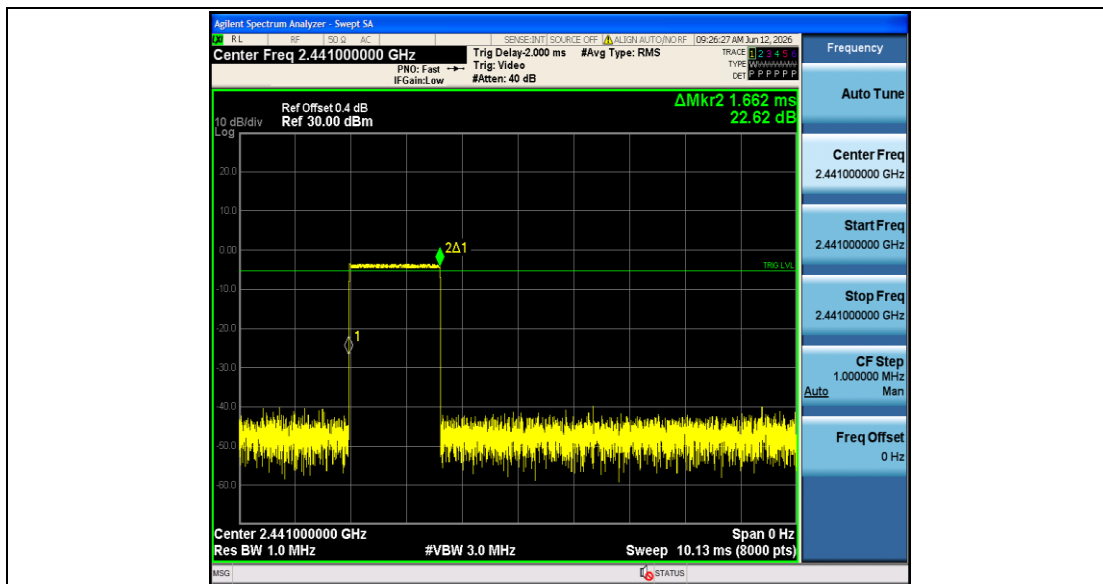
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	320	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.662	159	0.264	≤0.4	PASS
DH5	Ant1	Hop	2.910	105	0.306	≤0.4	PASS
2DH1	Ant1	Hop	0.417	319	0.133	≤0.4	PASS
2DH3	Ant1	Hop	1.667	173	0.288	≤0.4	PASS
2DH5	Ant1	Hop	2.916	108	0.315	≤0.4	PASS
3DH1	Ant1	Hop	0.415	319	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.664	161	0.268	≤0.4	PASS
3DH5	Ant1	Hop	2.917	103	0.3	≤0.4	PASS

DH1_Ant1_Hop

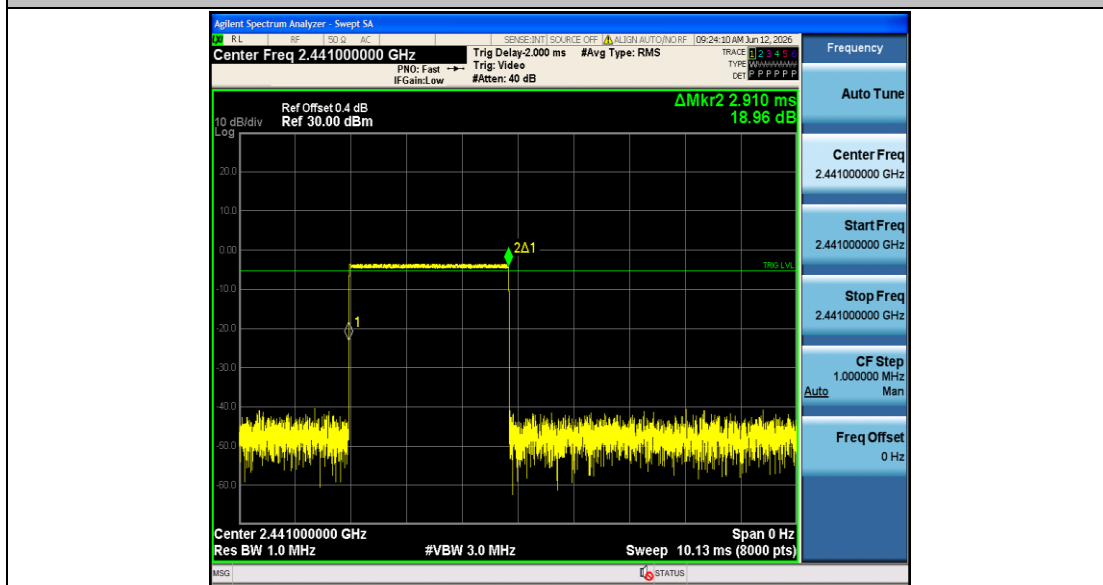
The figure displays two screenshots of an Agilent Spectrum Analyzer, showing the results of a sweep measurement. Both screenshots are for a Center Freq of 2.441000000 GHz, a Res BW of 1.0 MHz, and a Span of 0 Hz. The reference level is 30.00 dBm, and the reference offset is 0.4 dB. The attenuation is 40 dB.

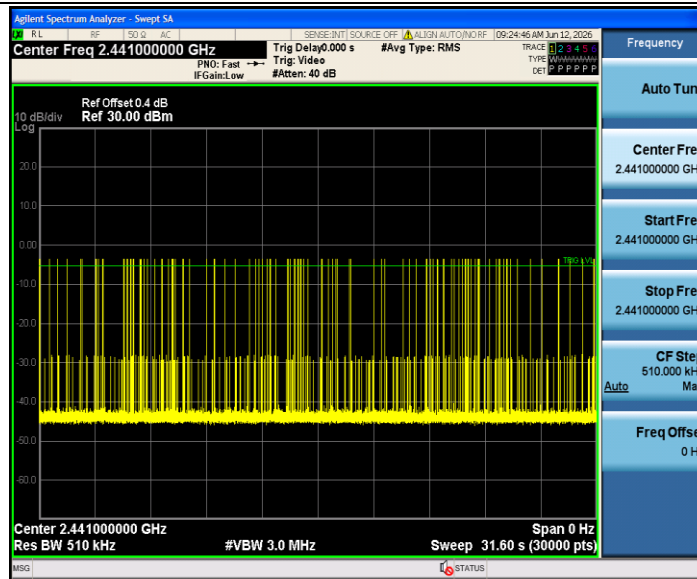
Top Screenshot (DH1_Ant1_Hop):

- Trig Delay: 2.000 ms
- Trig: Video
- Avg Type: RMS
- Trace 1: 2.441000000 GHz
- Trace 2: 2.441000000 GHz
- Trace 3: 2.441000000 GHz
- Trace 4: 2.441000000 GHz
- Trace 5: 2.441000000 GHz
- Trace 6: 2.441000000 GHz
- Trace 7: 2.441000000 GHz
- Trace 8: 2.441000000 GHz
- Trace 9: 2.441000000 GHz
- Trace 10: 2.441000000 GHz
- Trace 11: 2.441000000 GHz
- Trace 12: 2.441000000 GHz
- Trace 13: 2.441000000 GHz
- Trace 14: 2.441000000 GHz
- Trace 15: 2.441000000 GHz
- Trace 16: 2.441000000 GHz
- Trace 17: 2.441000000 GHz
- Trace 18: 2.441000000 GHz
- Trace 19: 2.441000000 GHz
- Trace 20: 2.441000000 GHz
- Trace 21: 2.441000000 GHz
- Trace 22: 2.441000000 GHz
- Trace 23: 2.441000000 GHz
- Trace 24: 2.441000000 GHz
- Trace 25: 2.441000000 GHz
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- Trace 159: 2.441000000 GHz
- Trace 160: 2.441000000 GHz
- Trace 161: 2.441000000 GHz
- Trace 162: 2.441000000 GHz
- Trace 163: 2.441000000 GHz
- Trace 164: 2.441000000 GHz
- Trace 165: 2.441000000 GHz
- Trace 166: 2.441000

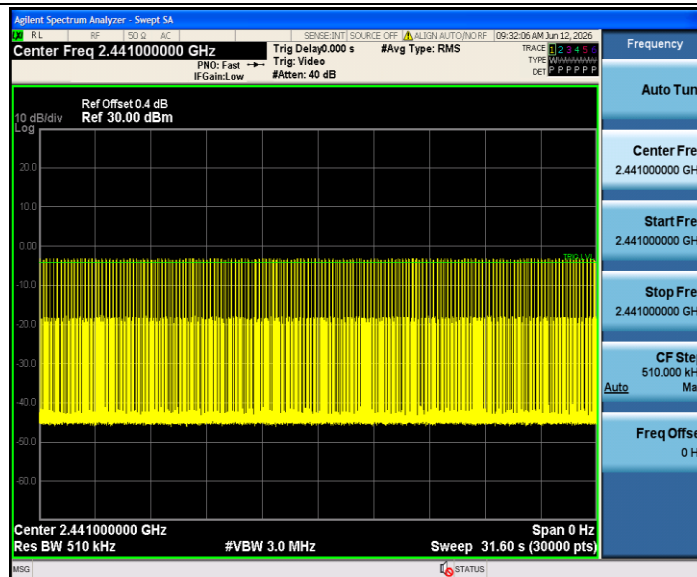
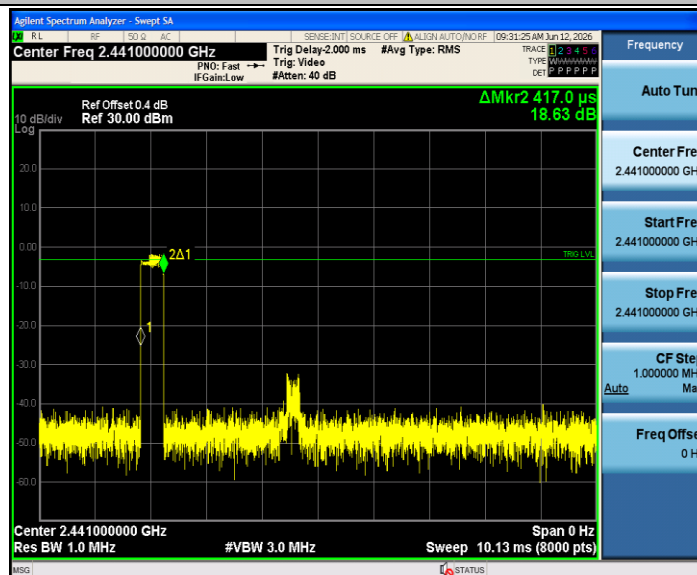


DH5_Ant1_Hop

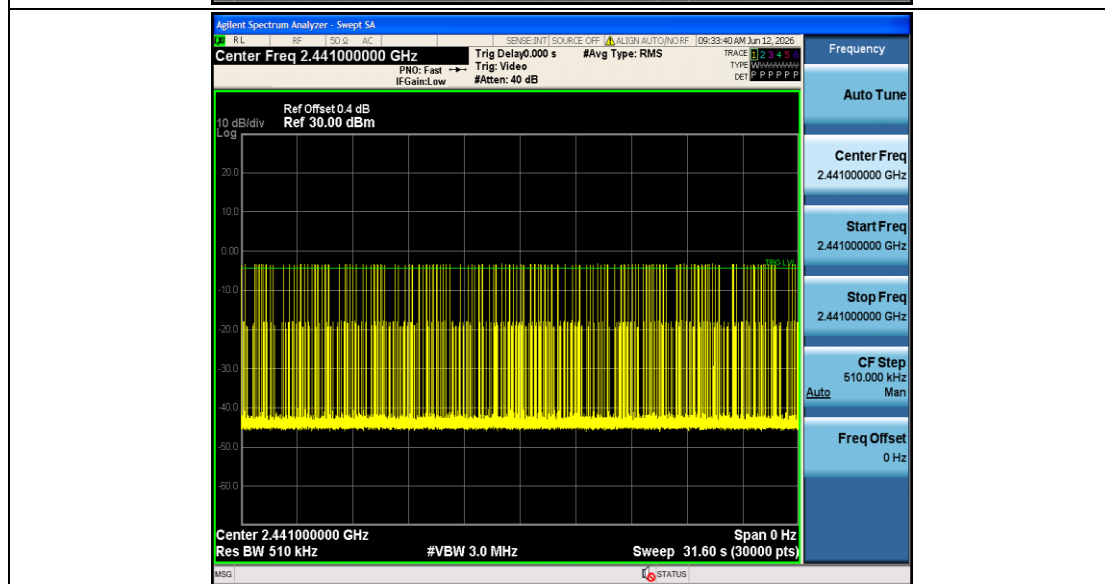
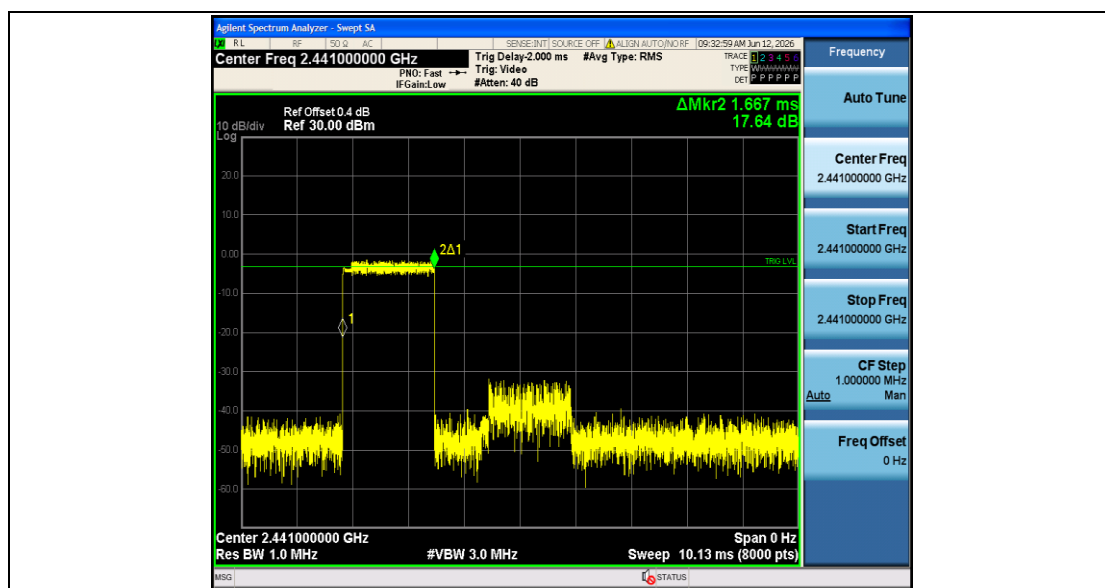




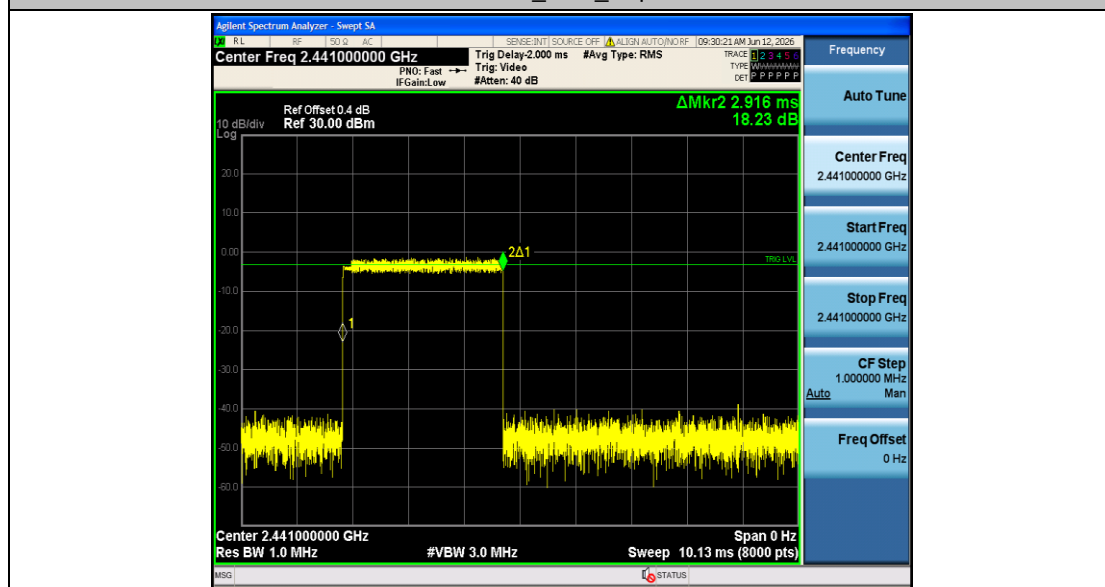
2DH1_Ant1_Hop

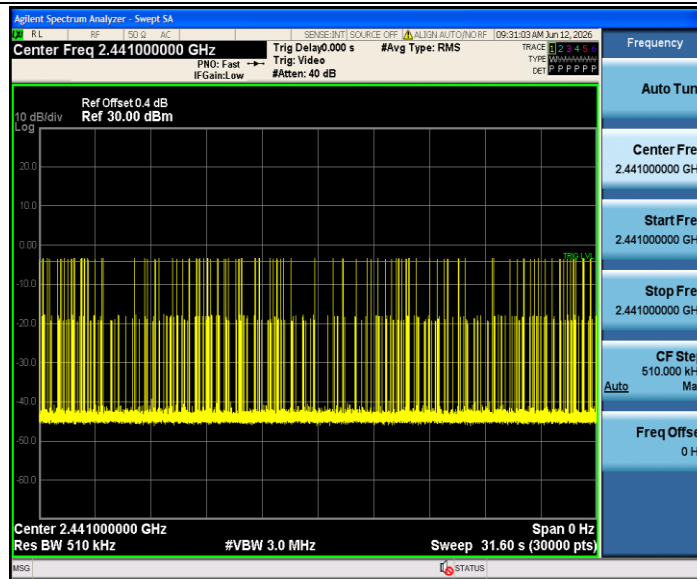


2DH3_Ant1_Hop

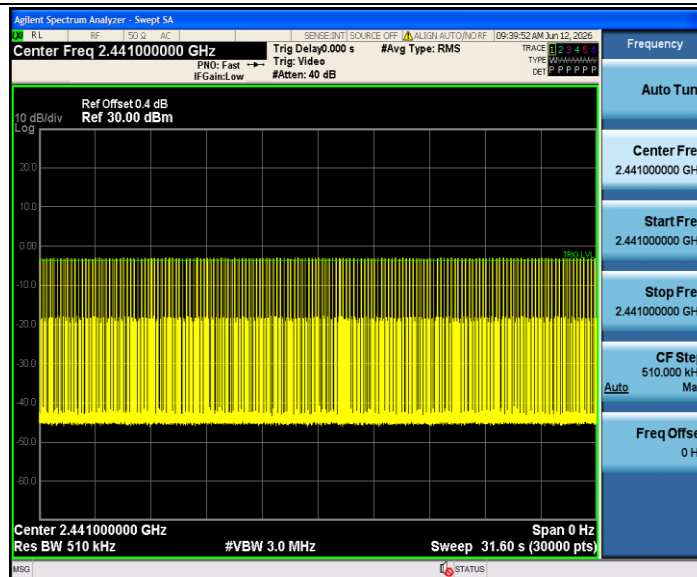
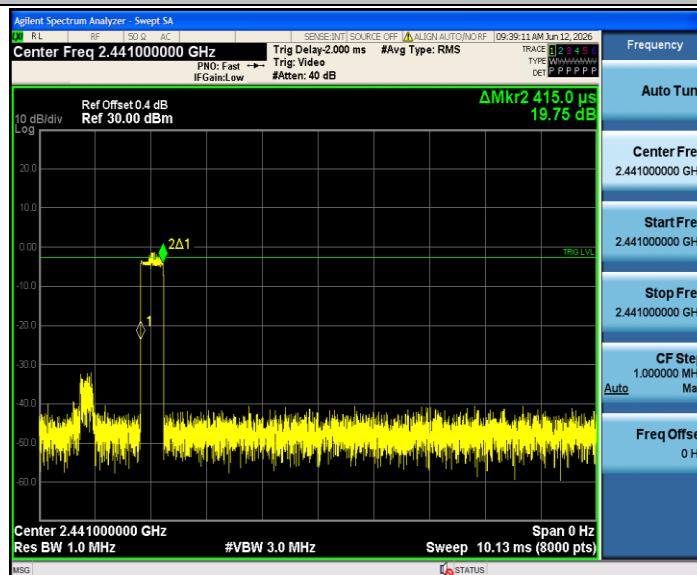


2DH5_Ant1_Hop

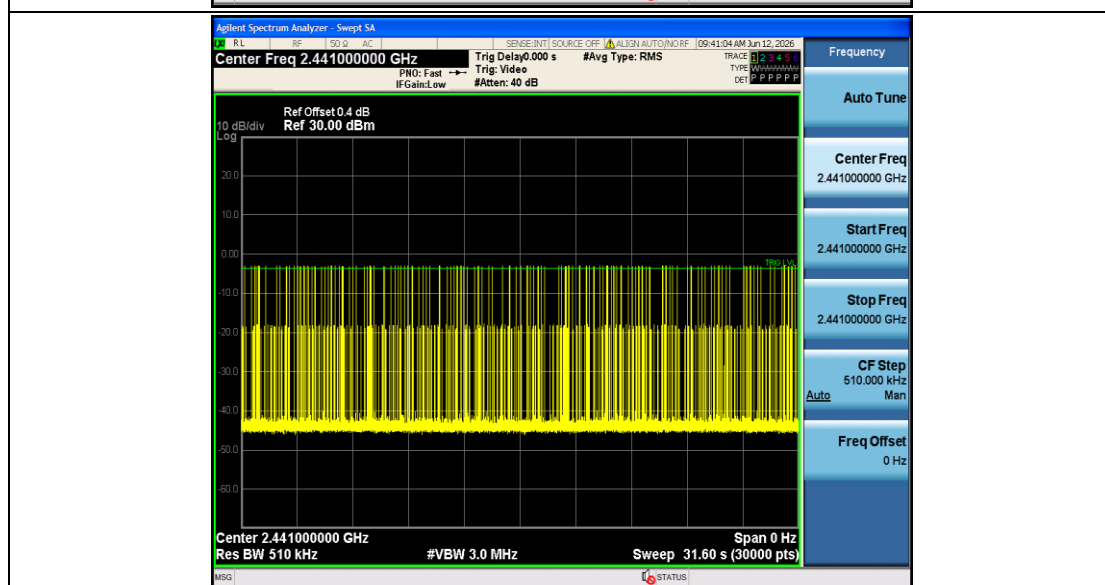
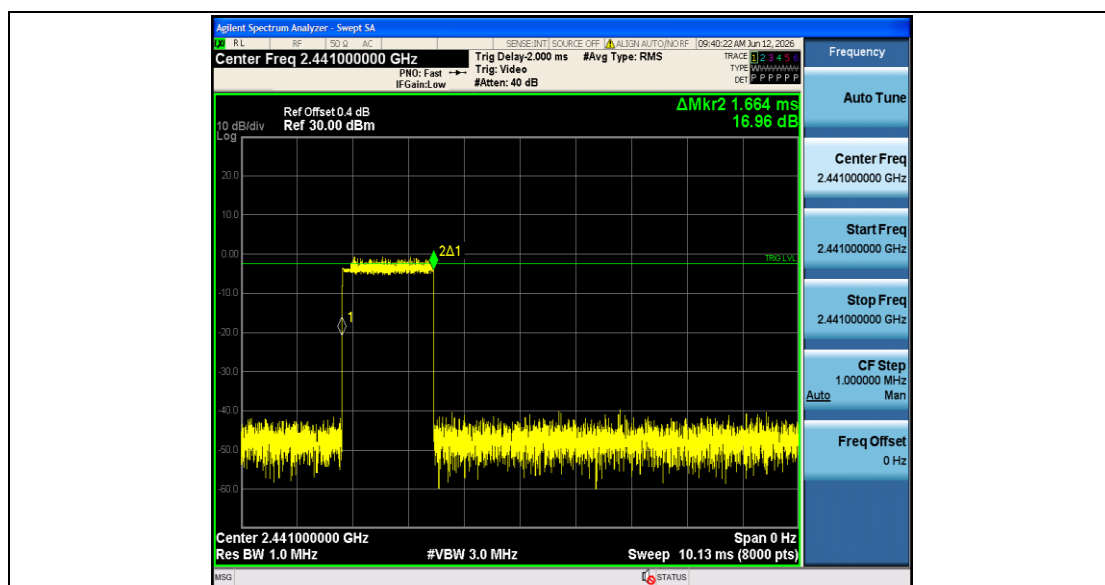




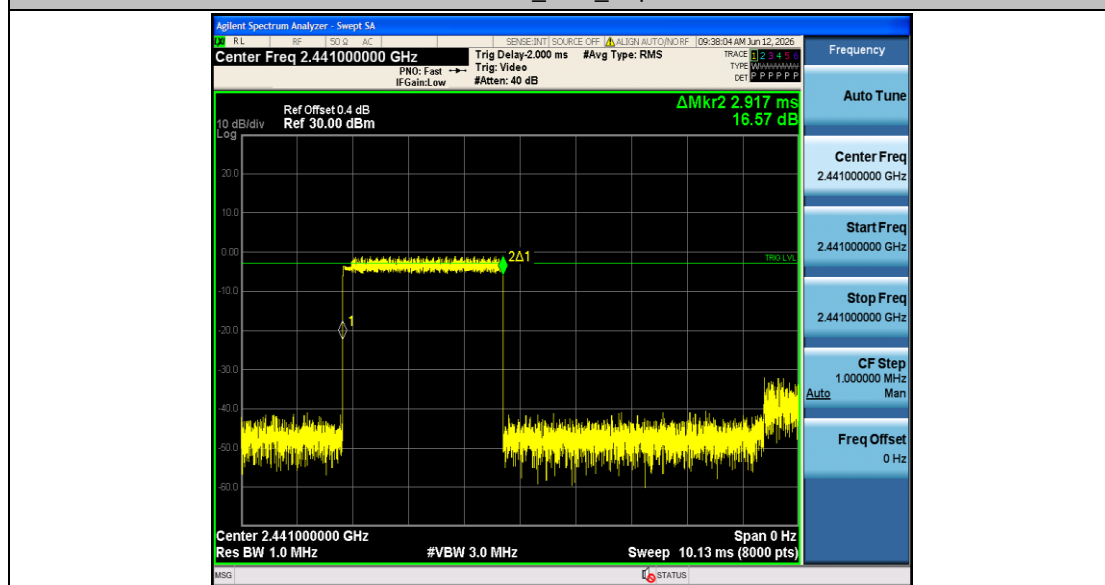
3DH1_Ant1_Hop

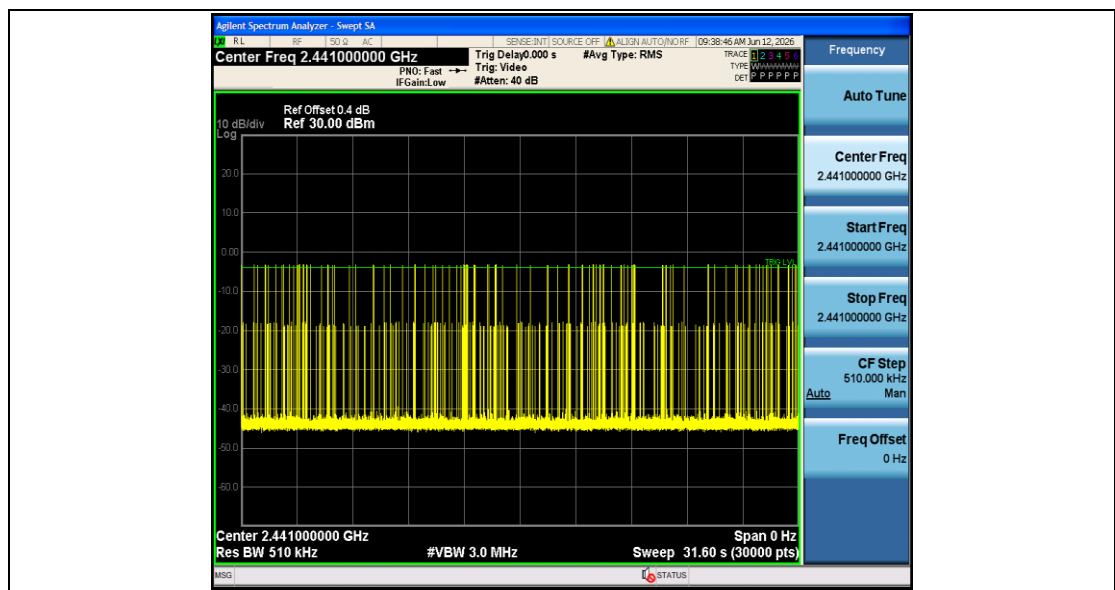


3DH3_Ant1_Hop



3DH5_Ant1_Hop



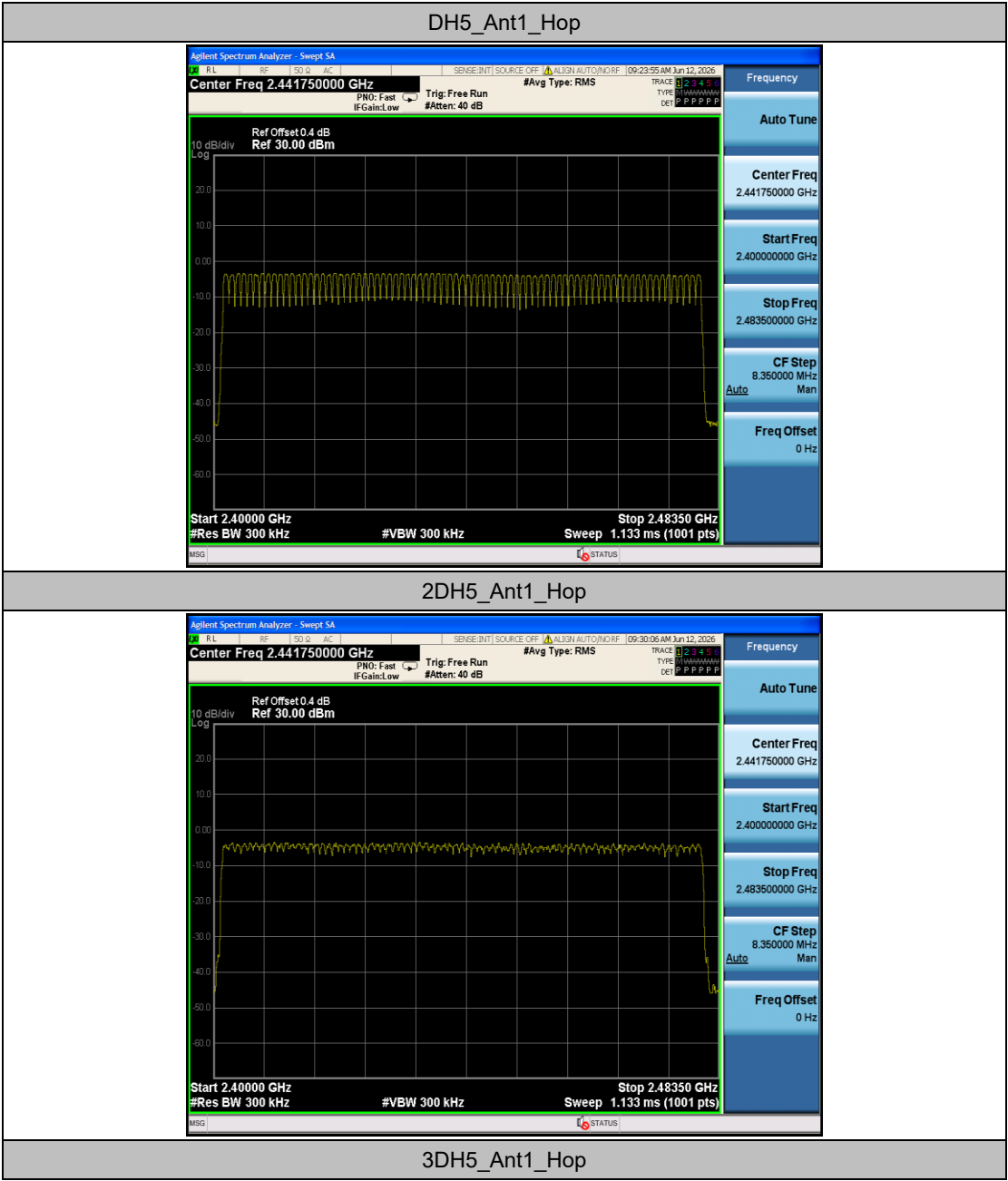


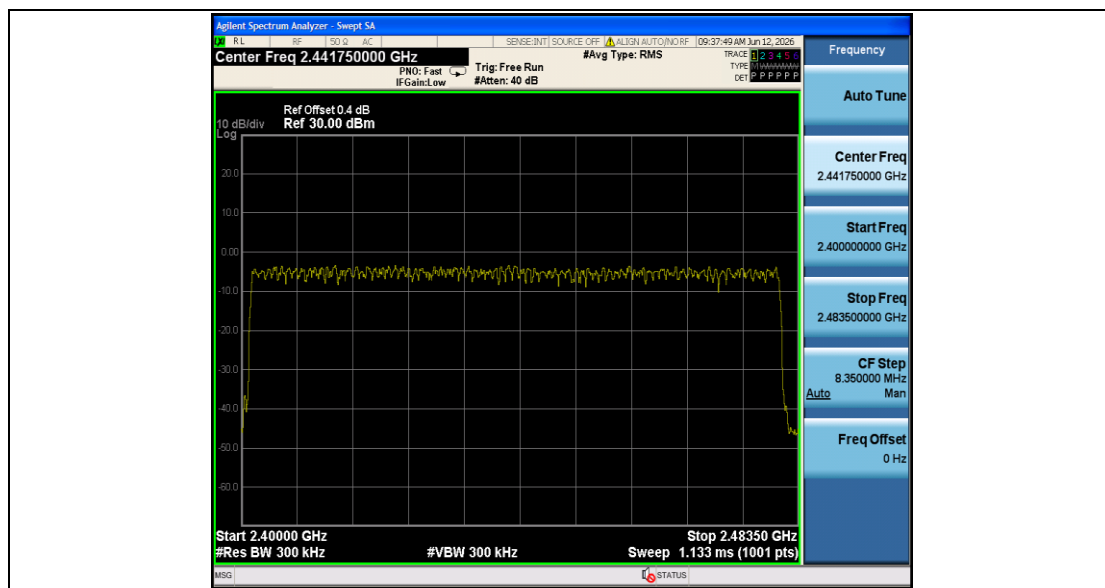
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



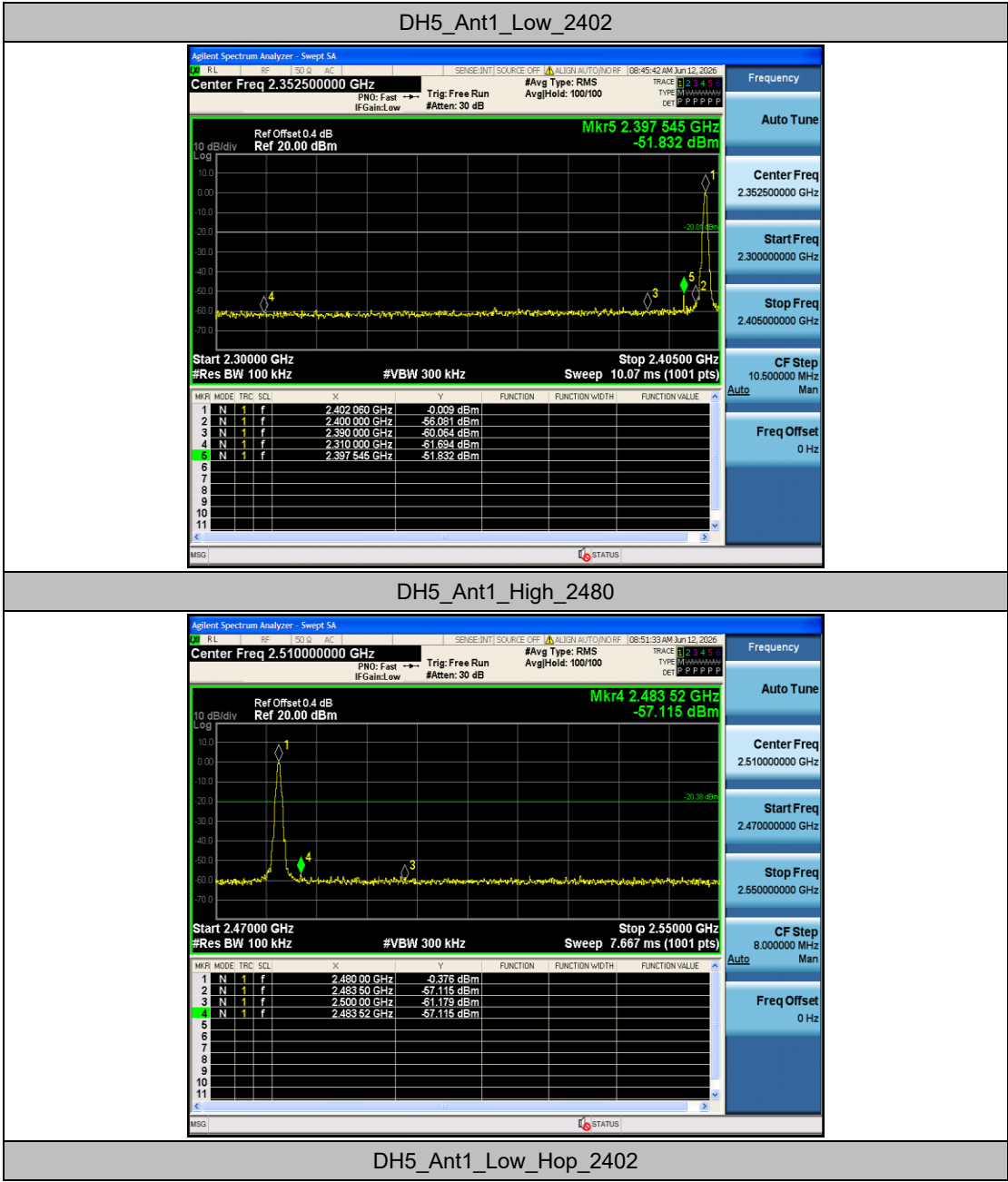


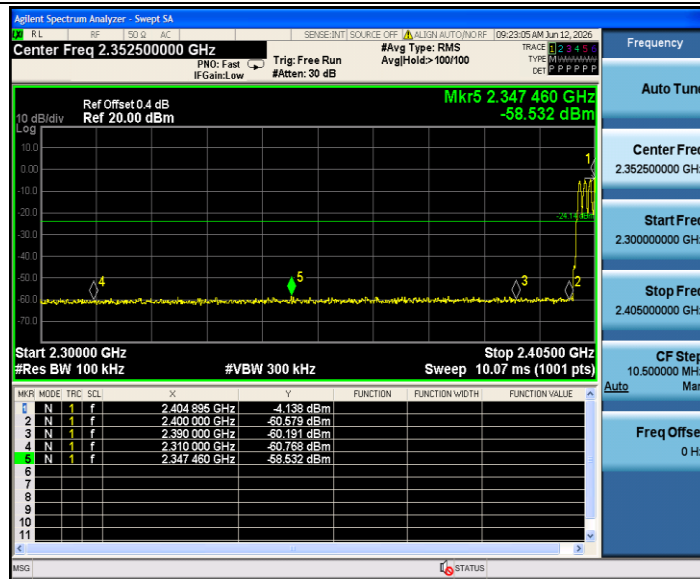
Appendix G: Band edge measurements

Test Result

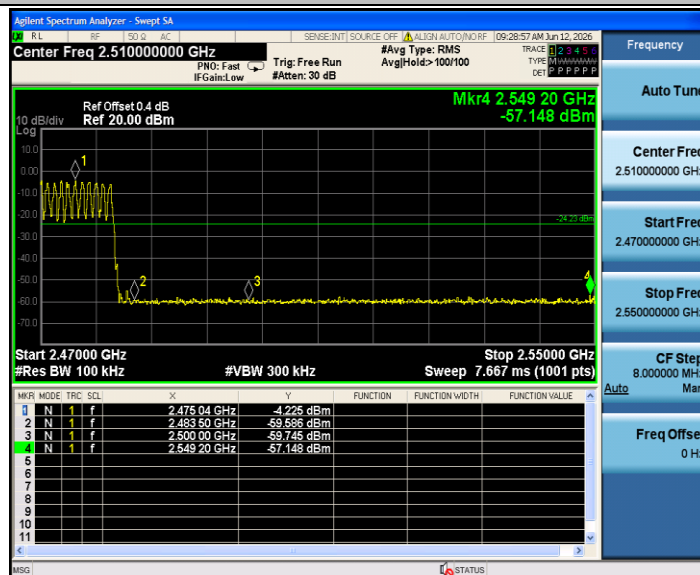
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.01	-51.83	≤-20.01	PASS
		High	2480	-0.38	-57.12	≤-20.38	PASS
		Low	Hop_2402	-4.14	-58.53	≤-24.14	PASS
		High	Hop_2480	-4.23	-57.15	≤-24.23	PASS
2DH5	Ant1	Low	2402	-3.81	-57.78	≤-23.81	PASS
		High	2480	-5.17	-57.05	≤-25.17	PASS
		Low	Hop_2402	-6.61	-58.5	≤-26.61	PASS
		High	Hop_2480	-5.96	-57.82	≤-25.96	PASS
3DH5	Ant1	Low	2402	-3.60	-57.61	≤-23.6	PASS
		High	2480	-4.78	-56.7	≤-24.78	PASS
		Low	Hop_2402	-6.47	-57.38	≤-26.47	PASS
		High	Hop_2480	-3.65	-57.36	≤-23.65	PASS

Test Graphs

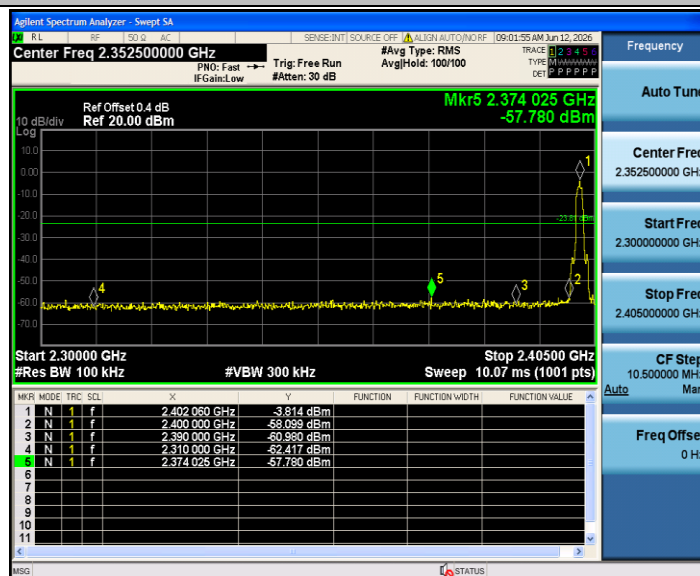




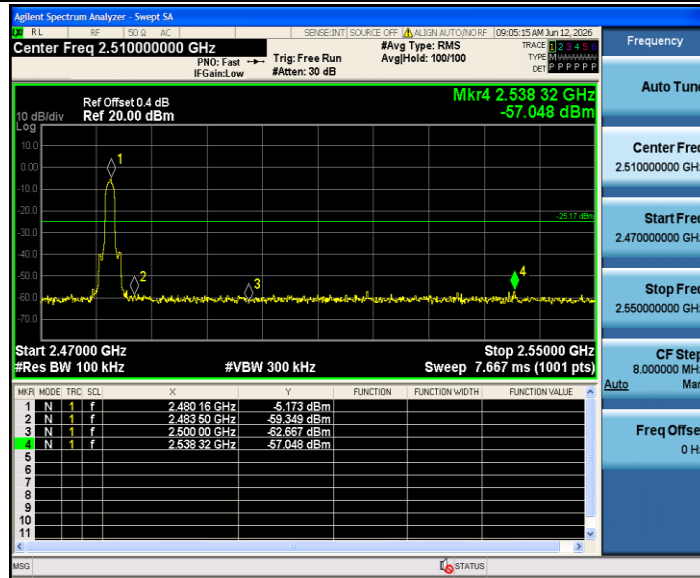
DH5_Ant1_High_Hop_2480



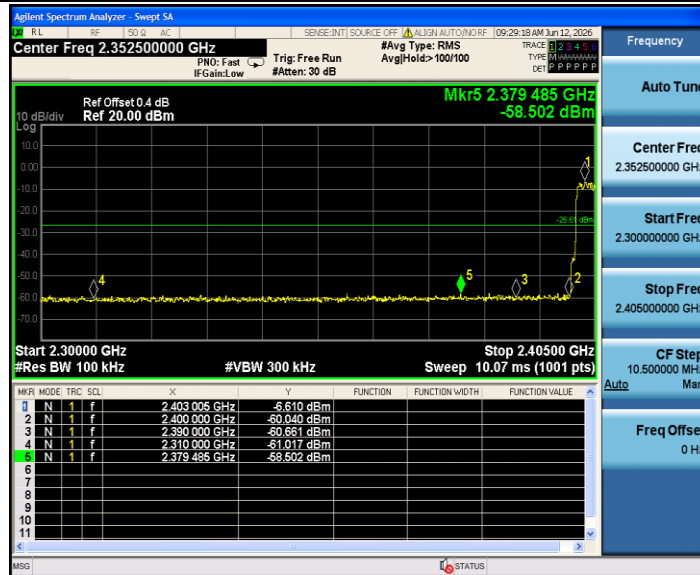
2DH5_Ant1_Low_2402



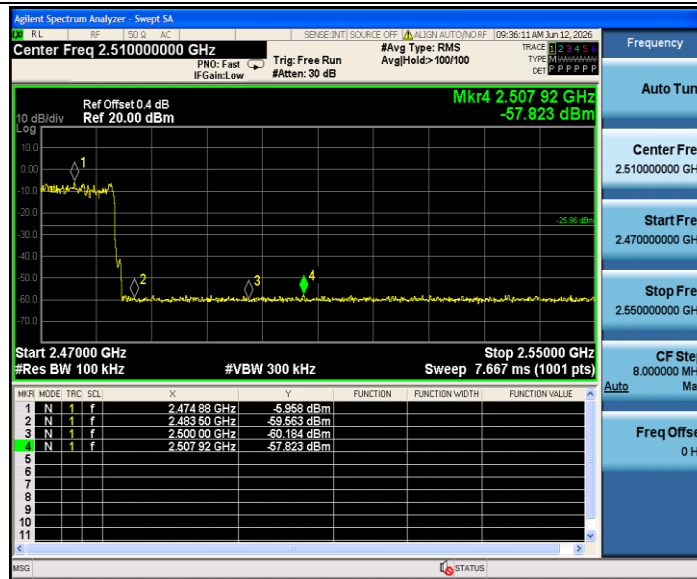
2DH5_Ant1_High_2480



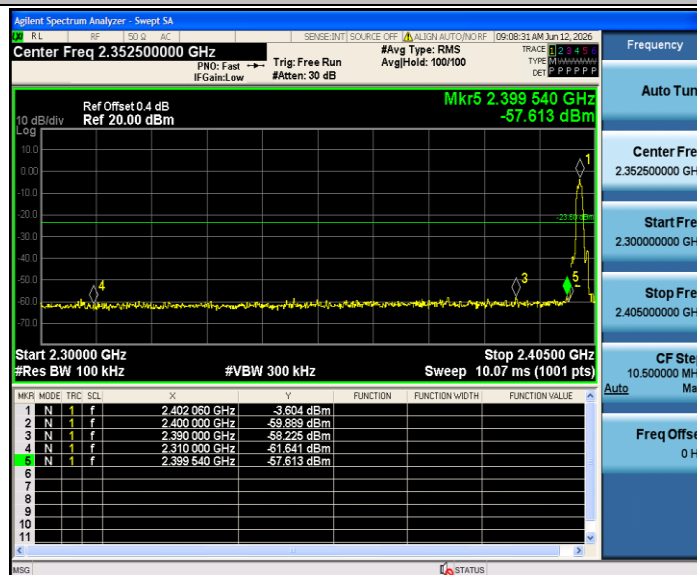
2DH5_Ant1_Low_Hop_2402



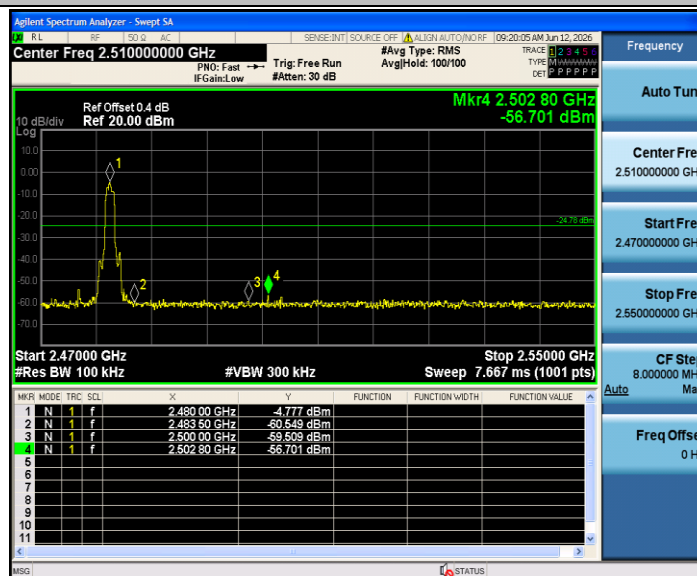
2DH5_Ant1_High_Hop_2480



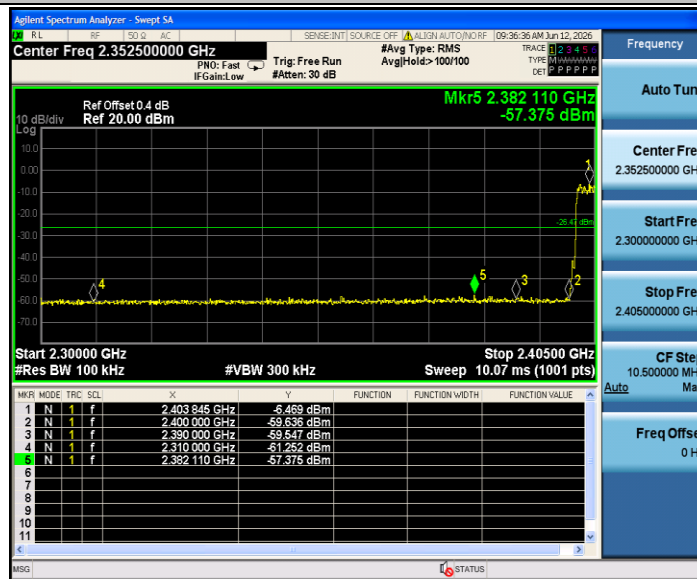
3DH5_Ant1_Low_2402



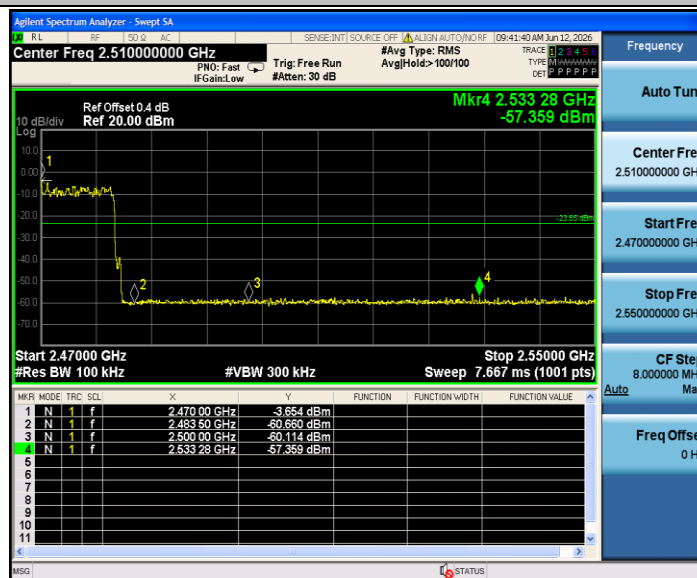
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

Test Result

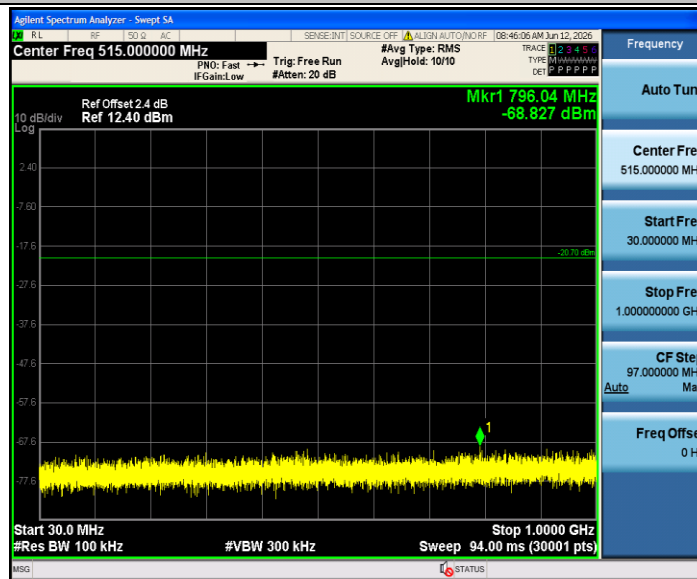
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.70	-0.70	---	PASS
			30~1000	-0.70	-68.83	≤-20.7	PASS
			1000~26500	-0.70	-40.86	≤-20.7	PASS
		2441	Reference	-1.29	-1.29	---	PASS
			30~1000	-1.29	-69.56	≤-21.29	PASS
			1000~26500	-1.29	-41.13	≤-21.29	PASS
		2480	Reference	-0.30	-0.30	---	PASS
			30~1000	-0.30	-68.67	≤-20.3	PASS
			1000~26500	-0.30	-39.7	≤-20.3	PASS
2DH5	Ant1	2402	Reference	-4.23	-4.23	---	PASS
			30~1000	-4.23	-67.57	≤-24.23	PASS
			1000~26500	-4.23	-42.61	≤-24.23	PASS
		2441	Reference	-5.50	-5.50	---	PASS
			30~1000	-5.50	-68.53	≤-25.5	PASS
			1000~26500	-5.50	-46.97	≤-25.5	PASS
		2480	Reference	-5.92	-5.92	---	PASS
			30~1000	-5.92	-69.27	≤-25.92	PASS
			1000~26500	-5.92	-49.36	≤-25.92	PASS
3DH5	Ant1	2402	Reference	-5.59	-5.59	---	PASS
			30~1000	-5.59	-68.99	≤-25.59	PASS
			1000~26500	-5.59	-46.94	≤-25.59	PASS
		2441	Reference	-6.49	-6.49	---	PASS
			30~1000	-6.49	-68.88	≤-26.49	PASS
			1000~26500	-6.49	-48.89	≤-26.49	PASS
		2480	Reference	-6.70	-6.70	---	PASS
			30~1000	-6.70	-68.05	≤-26.7	PASS
			1000~26500	-6.70	-49.13	≤-26.7	PASS

Test Graphs

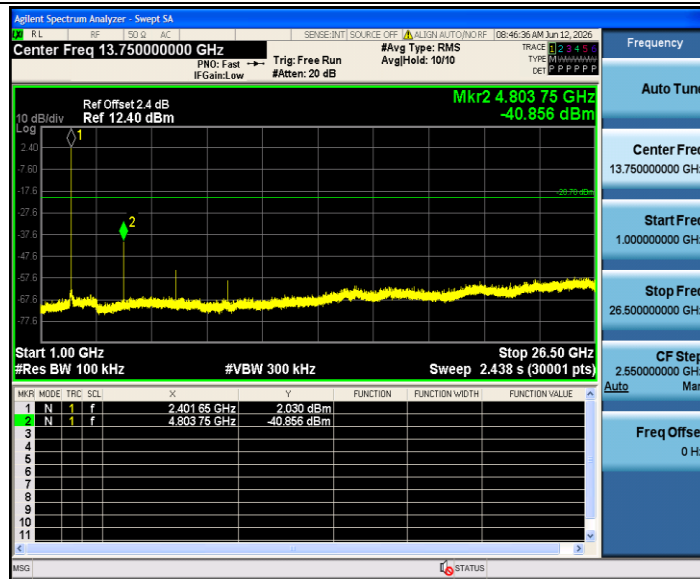
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



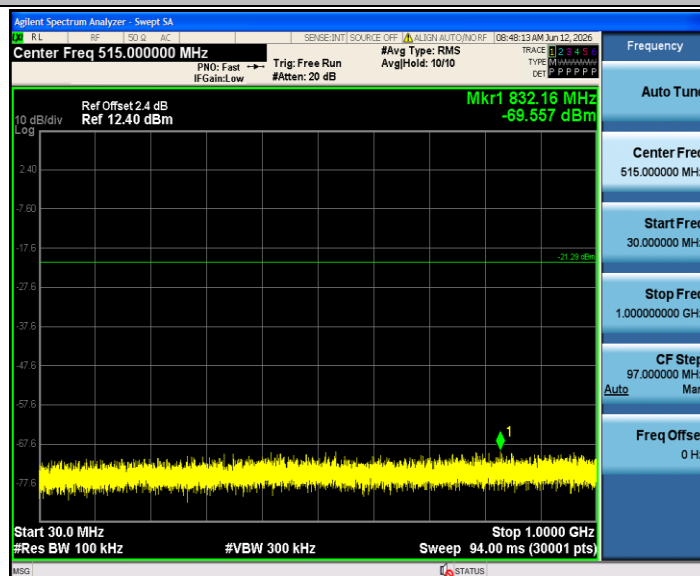
DH5_Ant1_2402_1000~26500



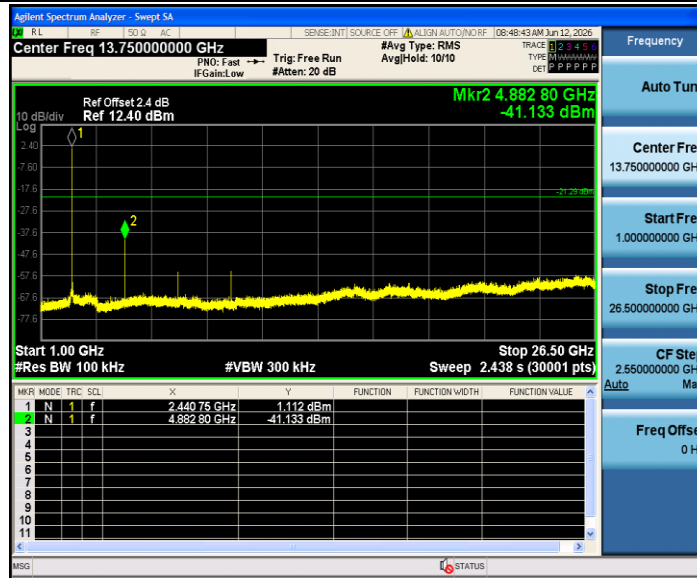
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



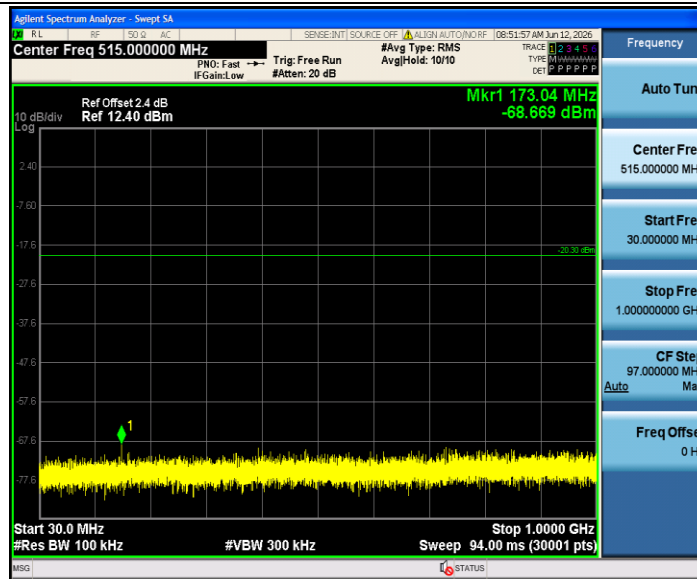
DH5_Ant1_2441_1000~26500



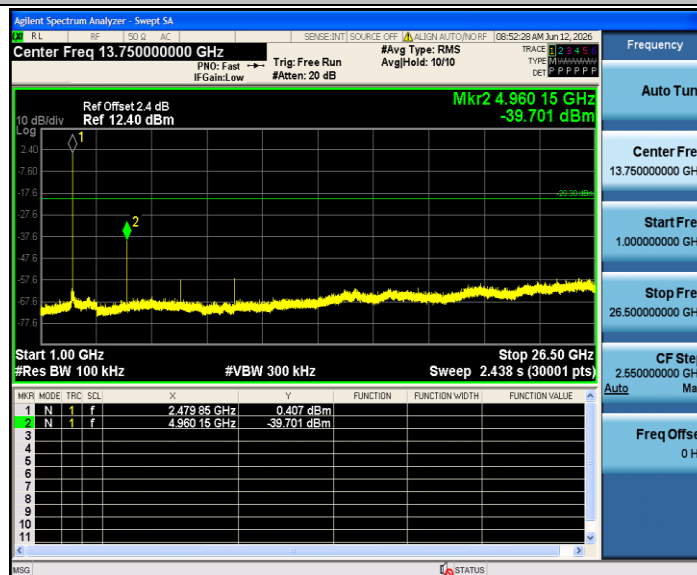
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

