

FCC Appendix RF Test Data for BT

FCC ID : 2BNGZ-D11

Company : Shenzhen Benton Technology Co. , Ltd.

EUT : Tablet PC

Model Number : M10

Report No. : CTA26072702802

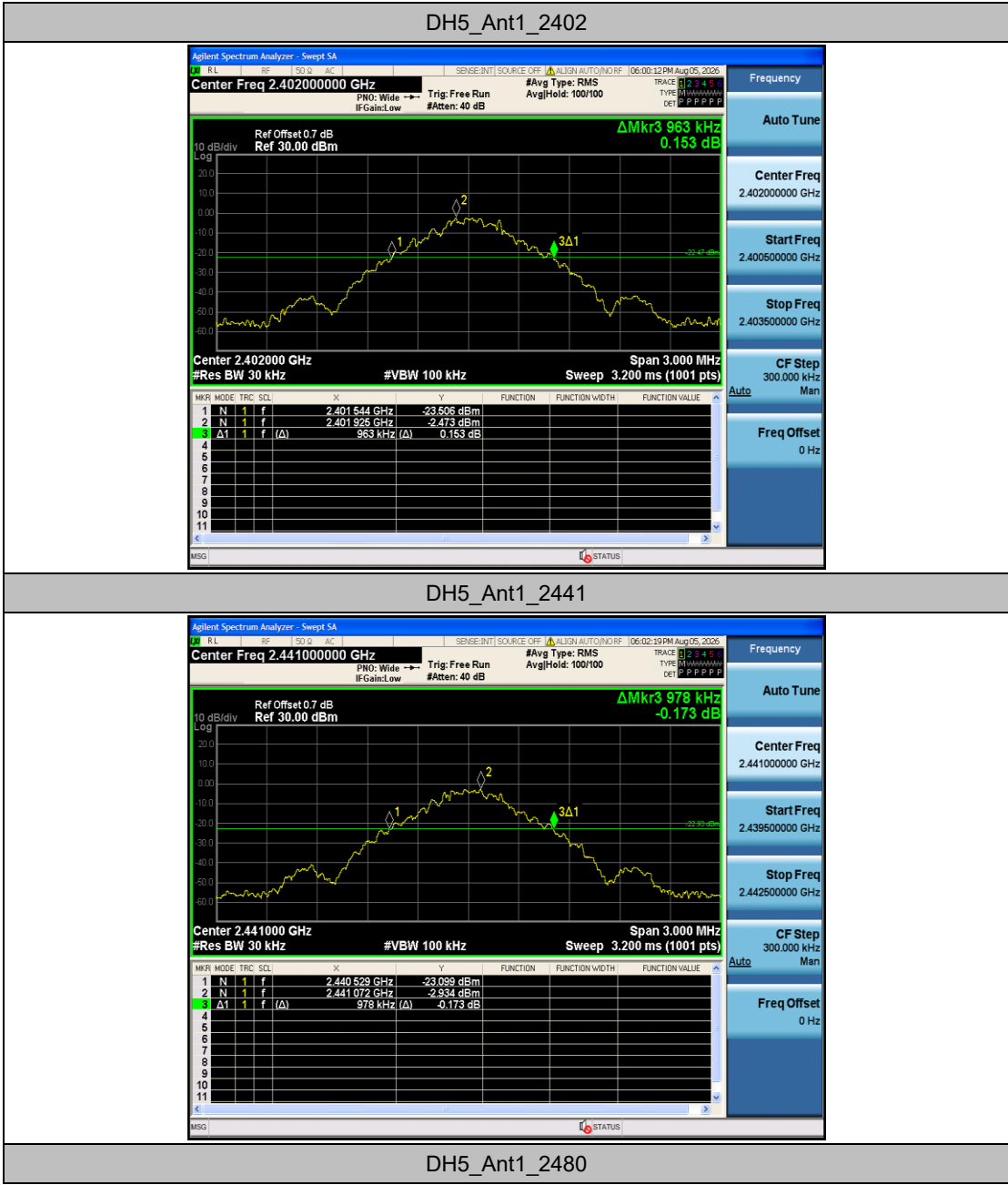
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.963	2401.544	2402.507	---	---
		2441	0.978	2440.529	2441.507	---	---
		2480	0.966	2479.541	2480.507	---	---
2DH5	Ant1	2402	1.329	2401.343	2402.672	---	---
		2441	1.290	2440.376	2441.666	---	---
		2480	1.341	2479.337	2480.678	---	---
3DH5	Ant1	2402	1.314	2401.355	2402.669	---	---
		2441	1.320	2440.355	2441.675	---	---
		2480	1.299	2479.358	2480.657	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

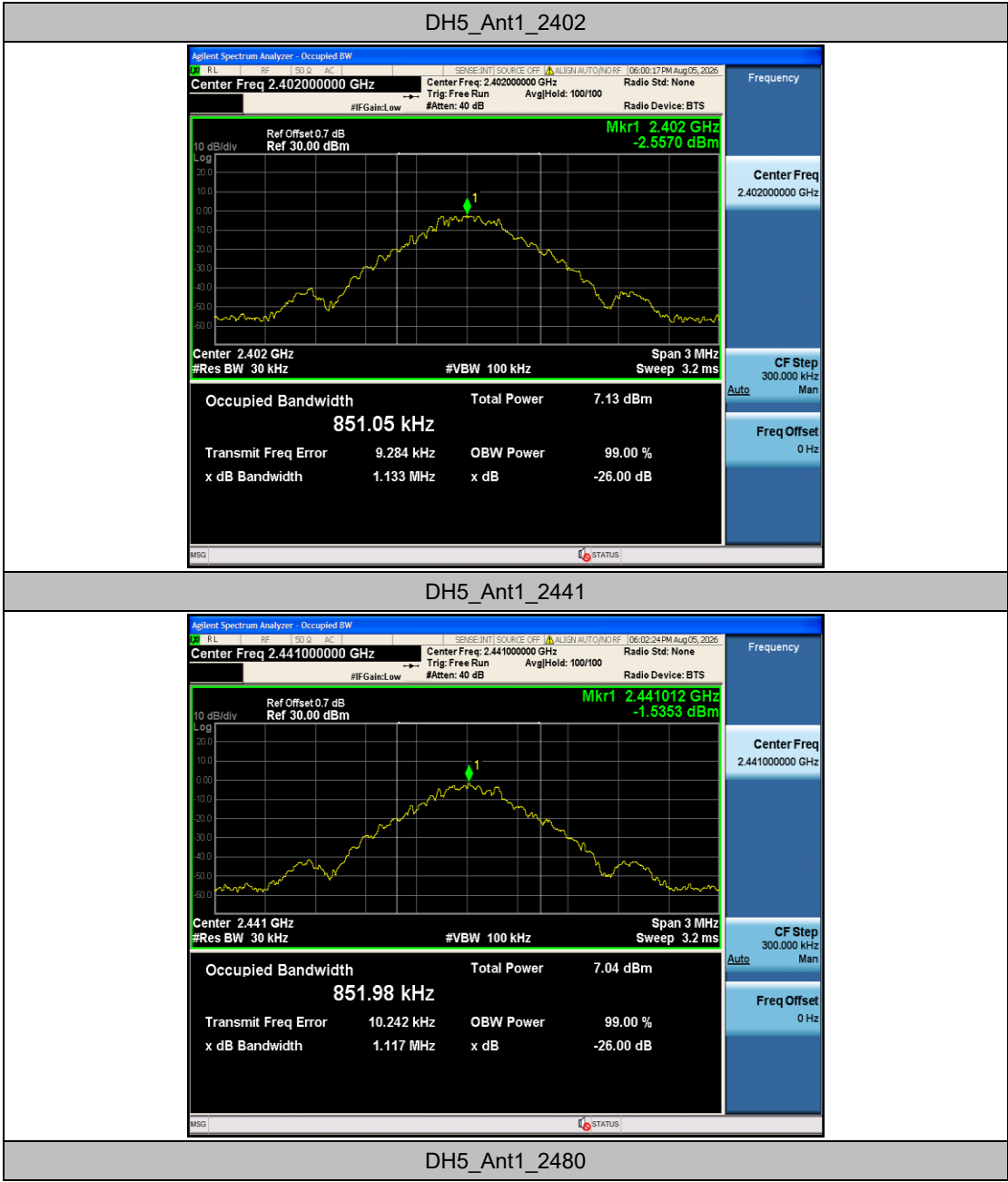


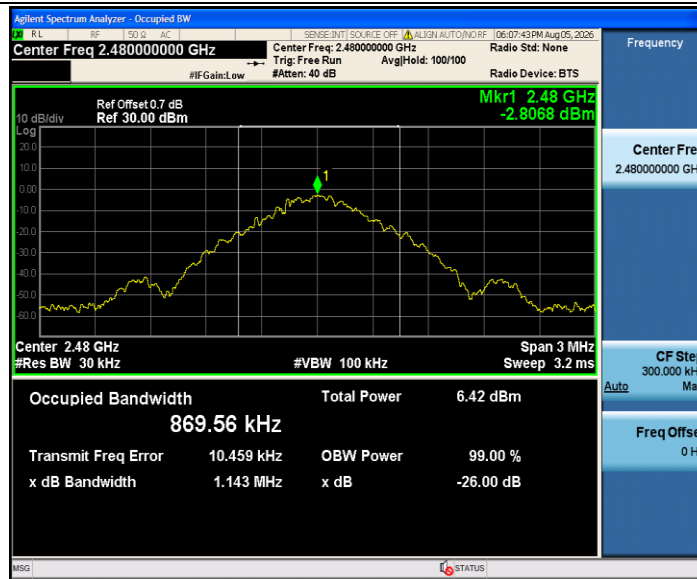
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85105	2401.5838	2402.4348	---	---
		2441	0.85198	2440.5843	2441.4362	---	---
		2480	0.86956	2479.5757	2480.4452	---	---
2DH5	Ant1	2402	1.1918	2401.4160	2402.6078	---	---
		2441	1.1821	2440.4174	2441.5995	---	---
		2480	1.1927	2479.4152	2480.6079	---	---
3DH5	Ant1	2402	1.1869	2401.4188	2402.6057	---	---
		2441	1.1772	2440.4232	2441.6004	---	---
		2480	1.1942	2479.4135	2480.6077	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



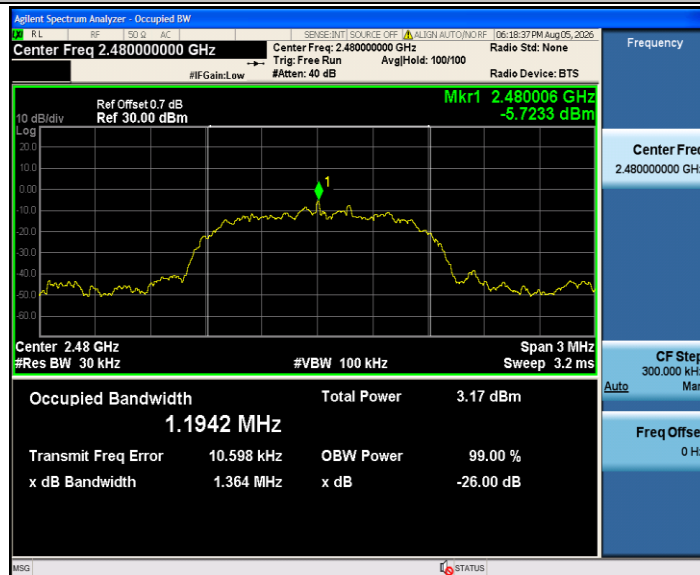
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.35	≤20.97	PASS
		2441	0.21	≤20.97	PASS
		2480	-0.02	≤20.97	PASS
2DH5	Ant1	2402	-0.47	≤20.97	PASS
		2441	-0.60	≤20.97	PASS
		2480	-0.91	≤20.97	PASS
3DH5	Ant1	2402	-0.12	≤20.97	PASS
		2441	-0.23	≤20.97	PASS
		2480	-0.52	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.006	≥ 0.978	PASS
2DH5	Ant1	Hop	1.142	≥ 0.894	PASS
3DH5	Ant1	Hop	0.968	≥ 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	0.405	320	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.662	158	0.263	≤0.4	PASS
DH5	Ant1	Hop	2.910	95	0.276	≤0.4	PASS
2DH1	Ant1	Hop	0.415	320	0.133	≤0.4	PASS
2DH3	Ant1	Hop	1.668	164	0.274	≤0.4	PASS
2DH5	Ant1	Hop	2.916	106	0.309	≤0.4	PASS
3DH1	Ant1	Hop	0.415	318	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.666	158	0.263	≤0.4	PASS
3DH5	Ant1	Hop	2.917	104	0.303	≤0.4	PASS

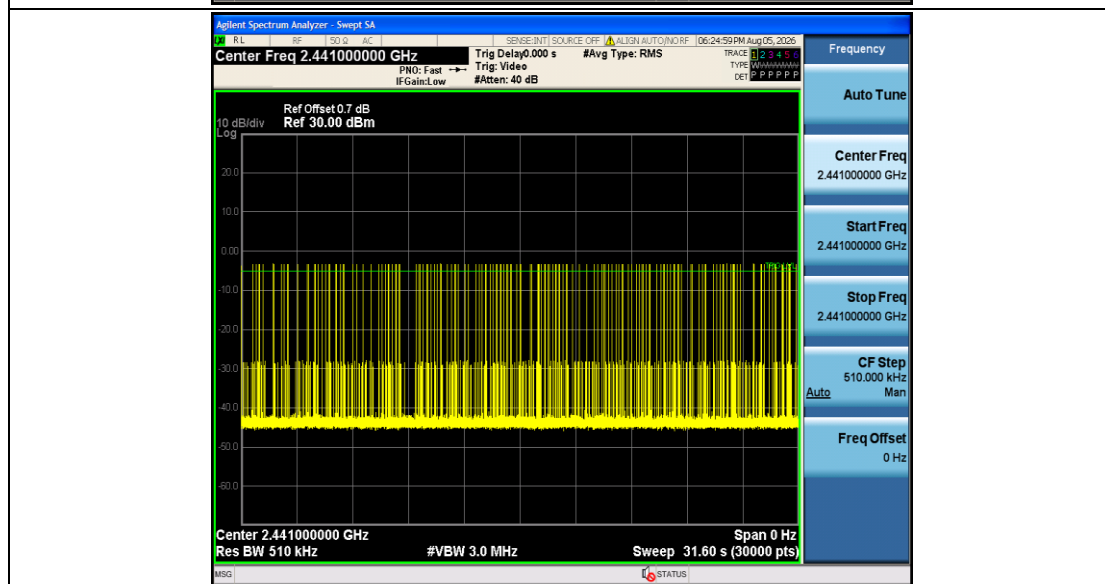
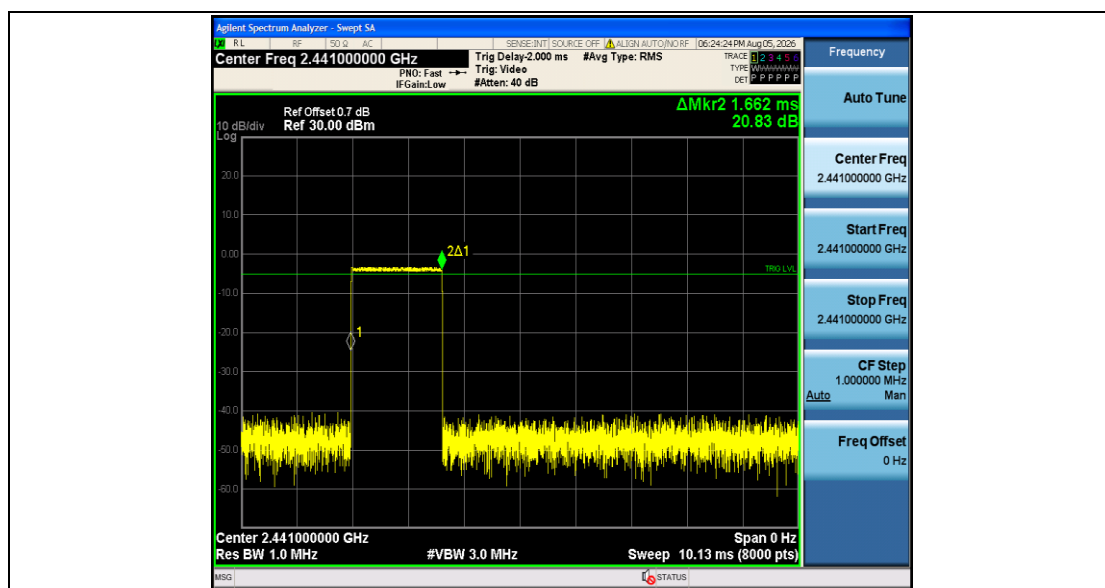
The figure displays two screenshots of an Agilent Spectrum Analyzer interface, showing signal analysis results for two different antenna hops.

Top Screenshot (DH1_Ant1_Hop):

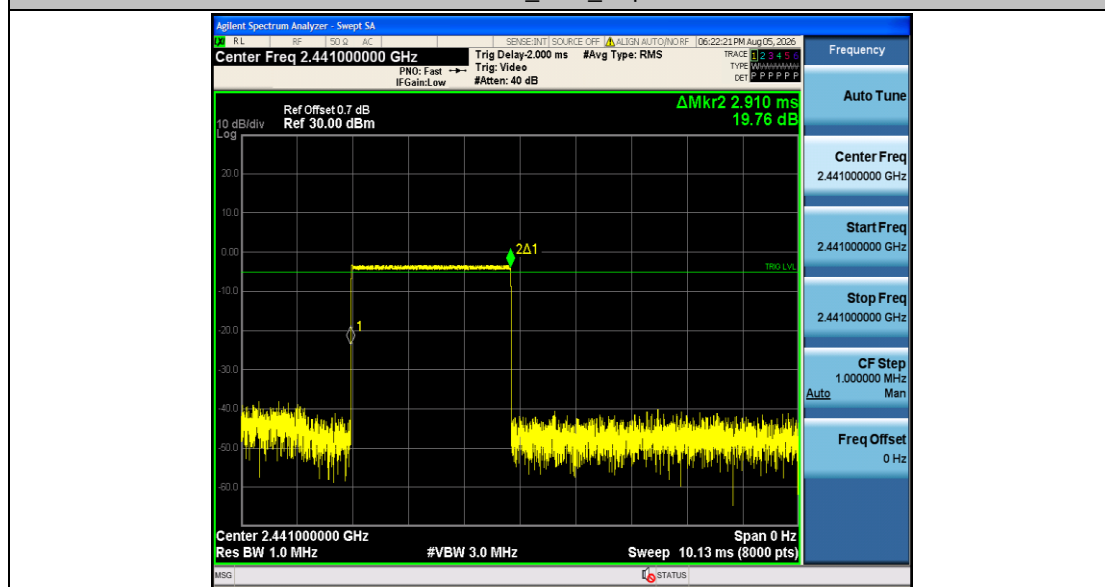
- Center Freq:** 2.441000000 GHz
- Ref Offset:** 0.7 dB
- Ref:** 30.00 dBm
- Trig Delay:** 2.000 ms
- Trig:** Video
- #Ave Type:** RMS
- Span:** 0 Hz
- Res BW:** 1.0 MHz
- #VBW:** 3.0 MHz
- Sweep:** 10.13 ms (8000 pts)
- Frequency Parameters:**
 - Center Freq: 2.441000000 GHz
 - Start Freq: 2.441000000 GHz
 - Stop Freq: 2.441000000 GHz
 - CF Step: 1.000000 MHz
 - Freq Offset: 0 Hz
- Signal Characteristics:** The plot shows a signal with a peak labeled "2d1" and a marker "1". The signal level is approximately -10 dBm.

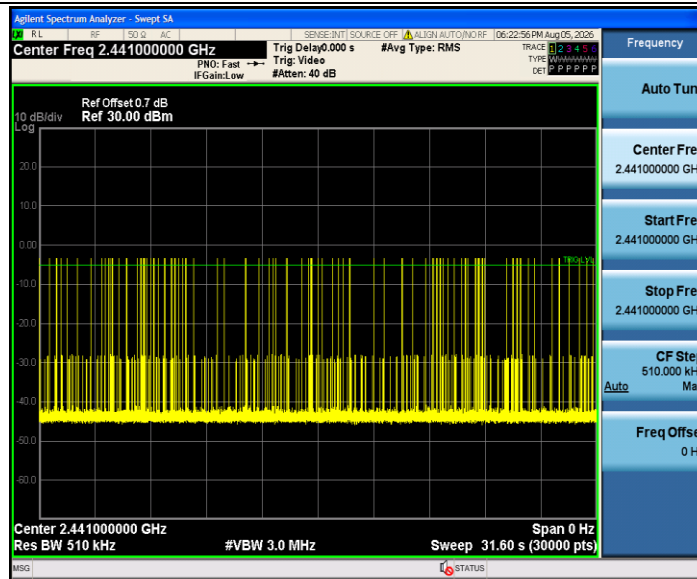
Bottom Screenshot (DH3_Ant1_Hop):

- Center Freq:** 2.441000000 GHz
- Ref Offset:** 0.7 dB
- Ref:** 30.00 dBm
- Trig Delay:** 0.000 s
- Trig:** Video
- #Ave Type:** RMS
- Span:** 0 Hz
- Res BW:** 510 kHz
- #VBW:** 3.0 MHz
- Sweep:** 31.60 s (30000 pts)
- Frequency Parameters:**
 - Center Freq: 2.441000000 GHz
 - Start Freq: 2.441000000 GHz
 - Stop Freq: 2.441000000 GHz
 - CF Step: 510.000 kHz
 - Freq Offset: 0 Hz
- Signal Characteristics:** The plot shows a signal with a peak labeled "2d1" and a marker "1". The signal level is approximately -10 dBm.

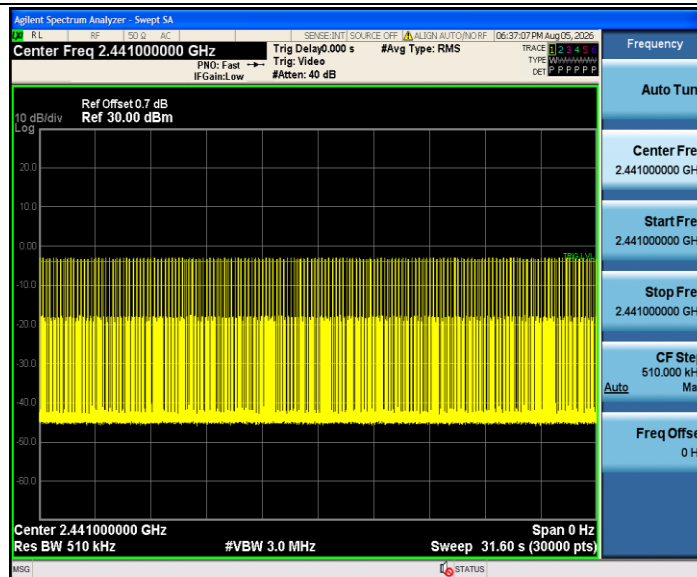
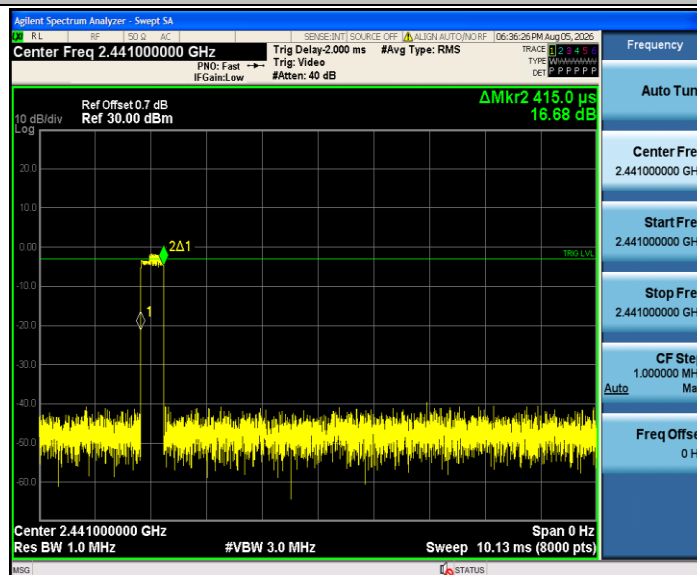


DH5_Ant1_Hop

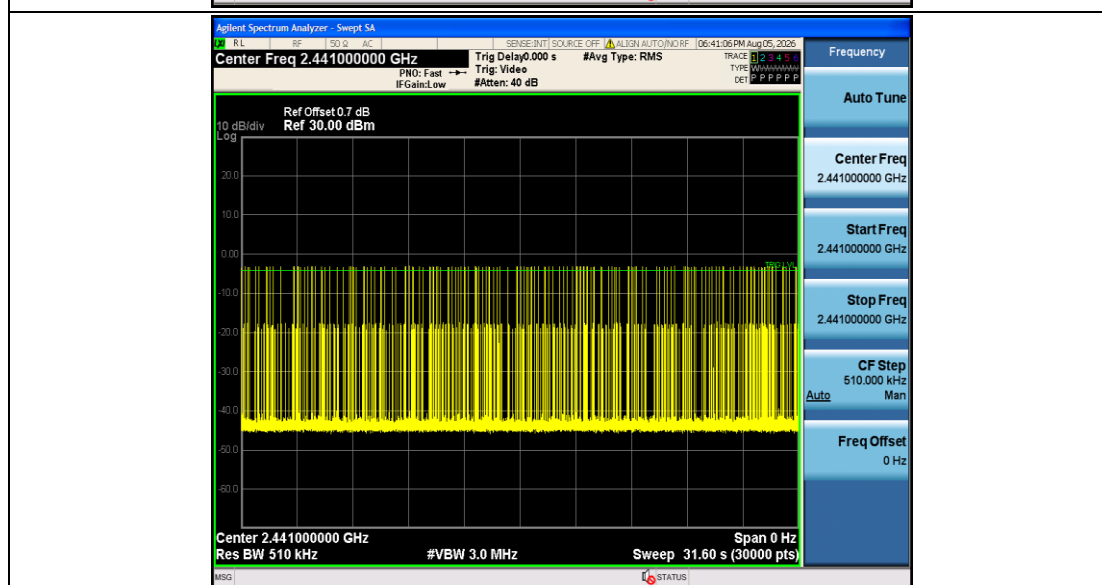
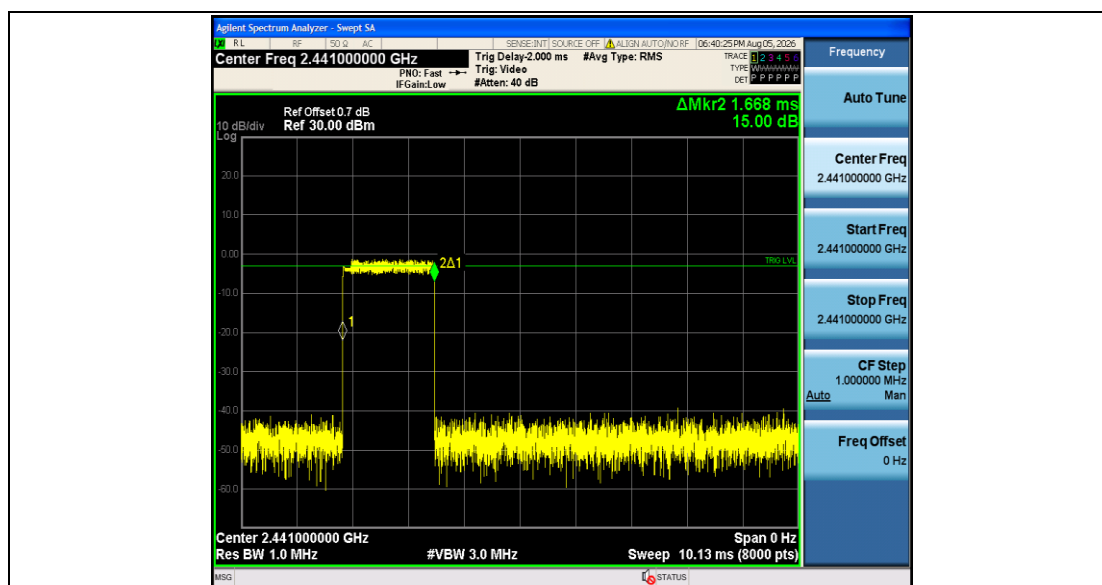




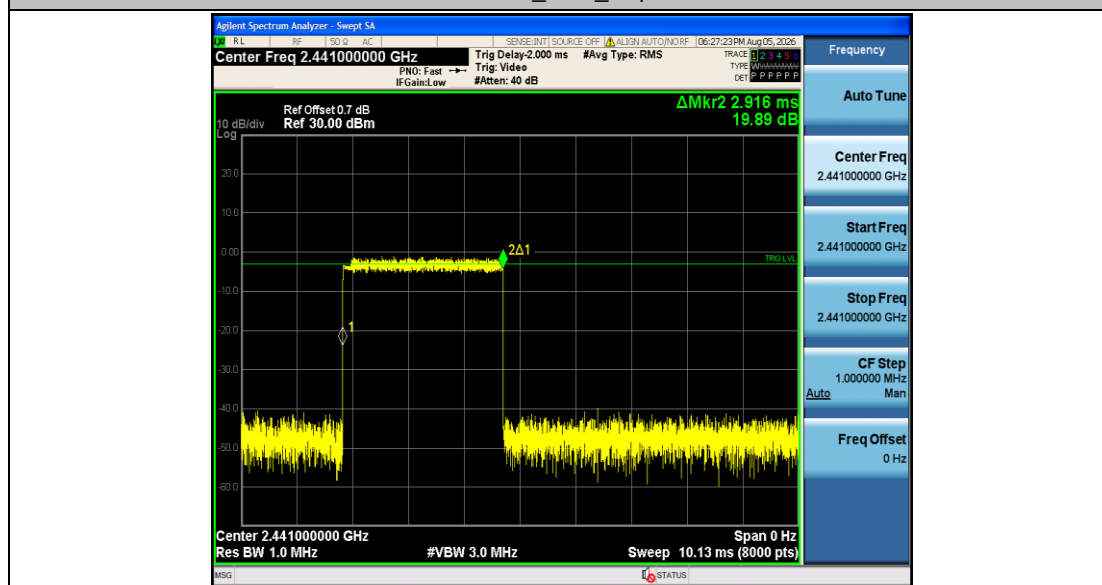
2DH1_Ant1_Hop

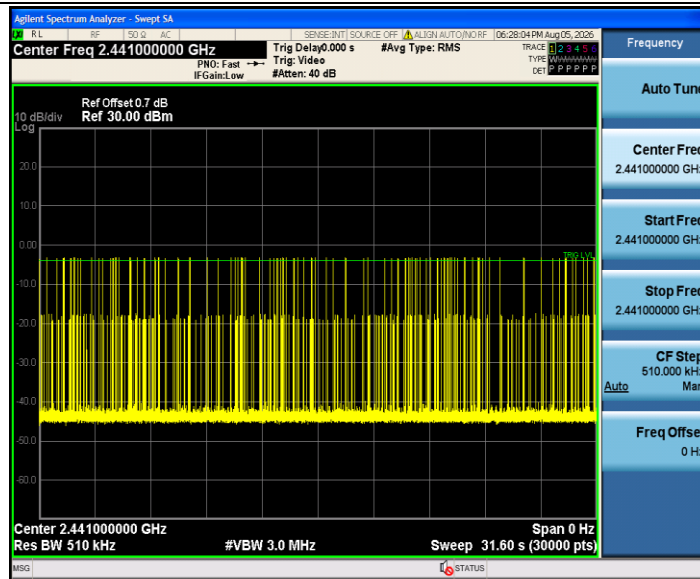


2DH3_Ant1_Hop

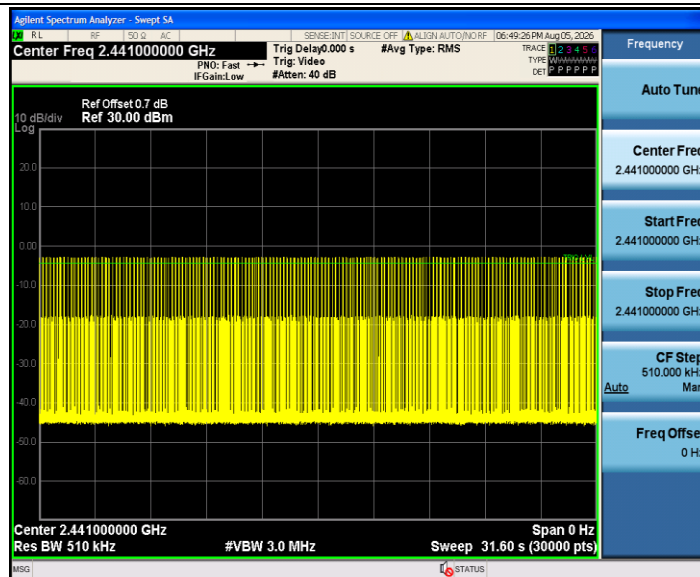
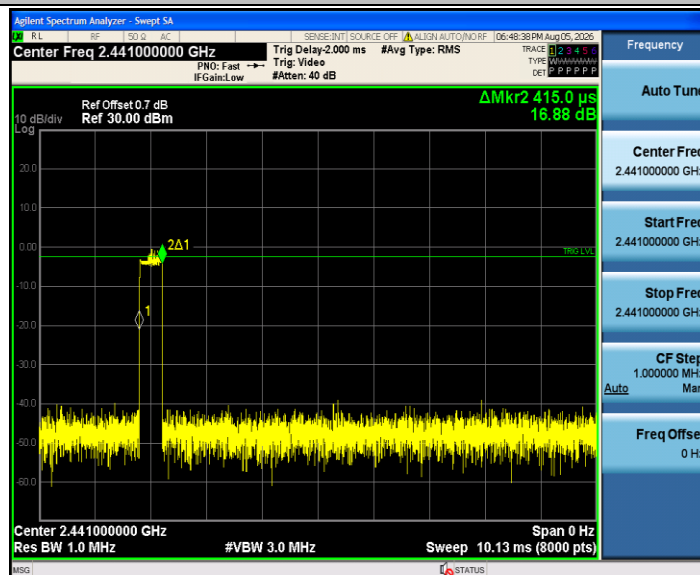


2DH5_Ant1_Hop

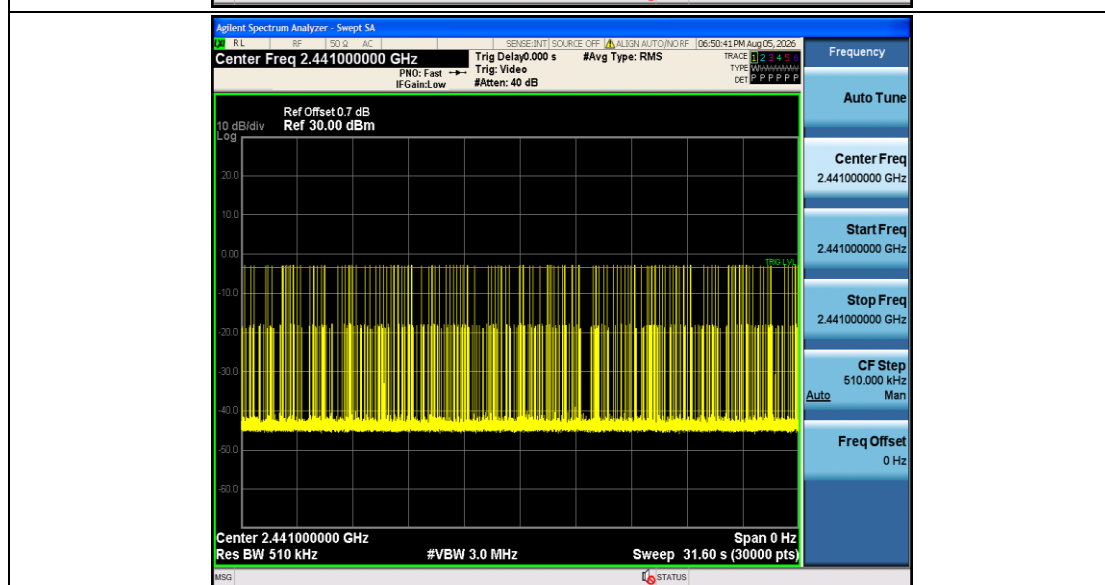
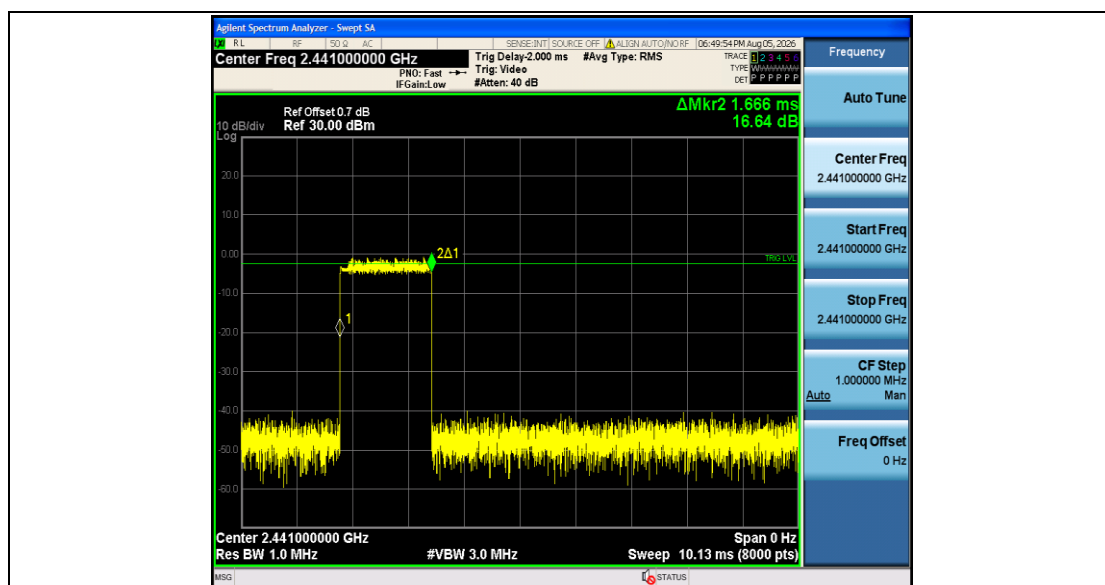




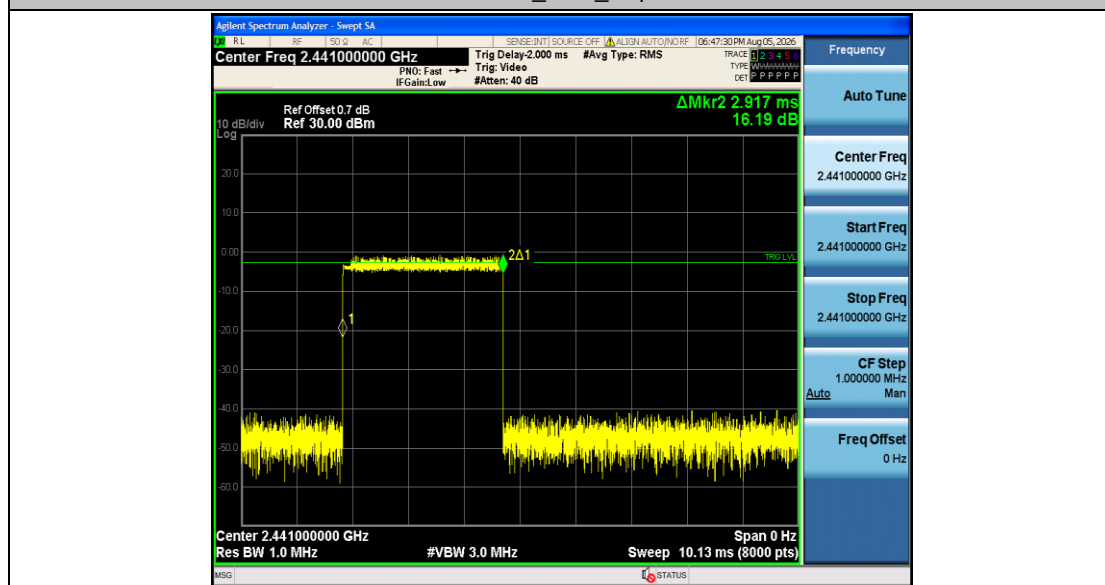
3DH1_Ant1_Hop

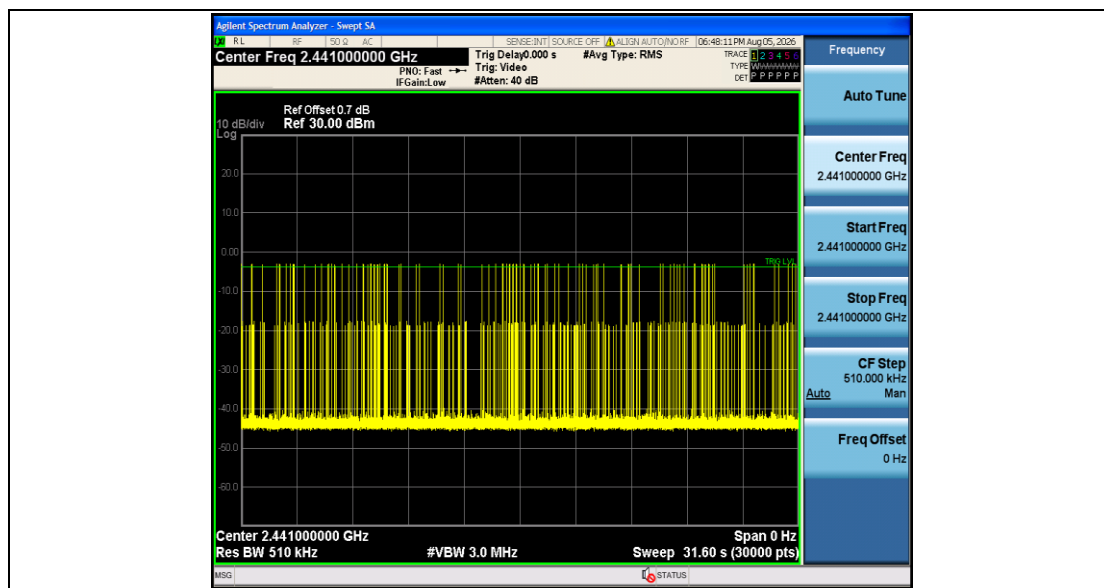


3DH3_Ant1_Hop



3DH5_Ant1_Hop



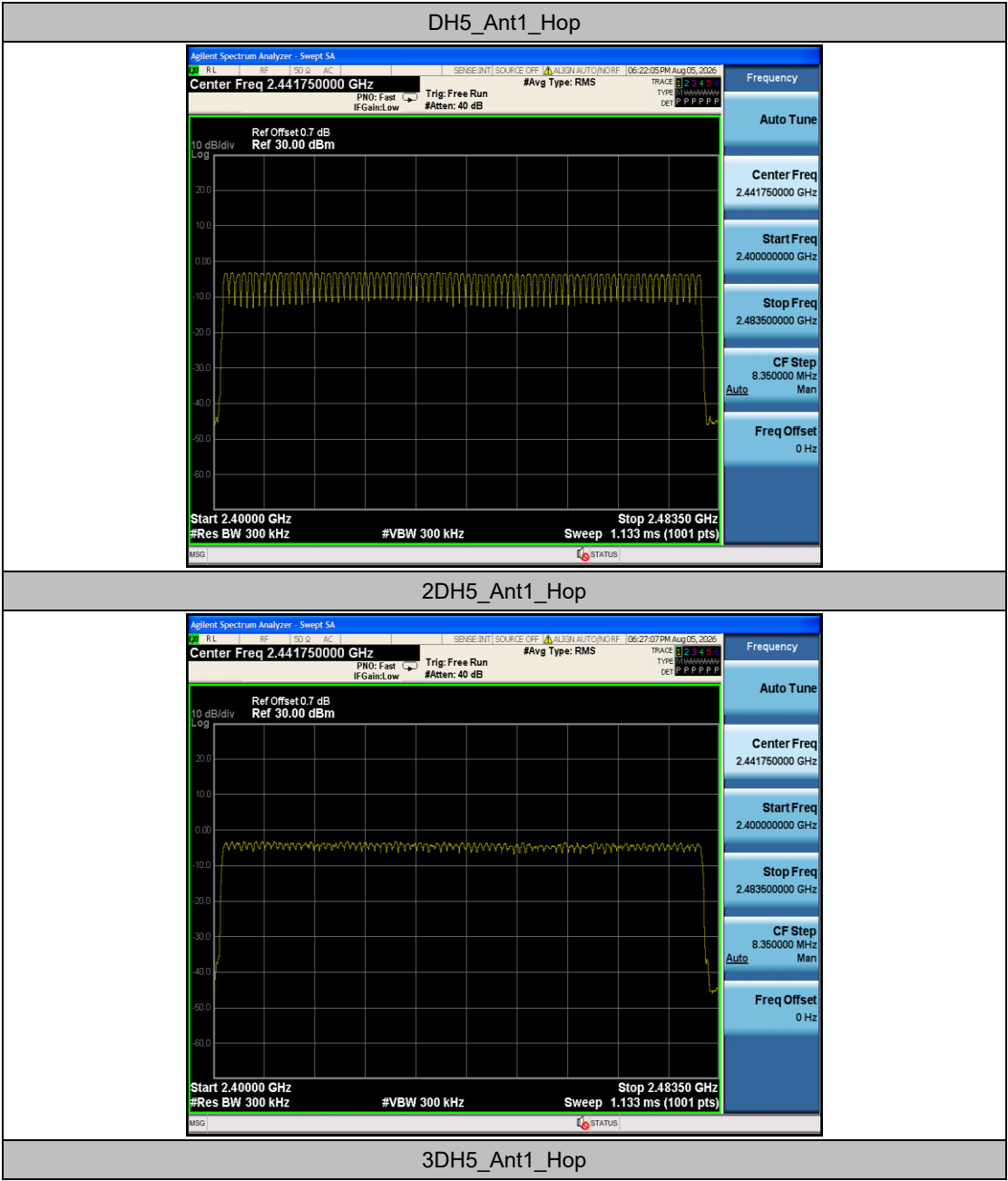


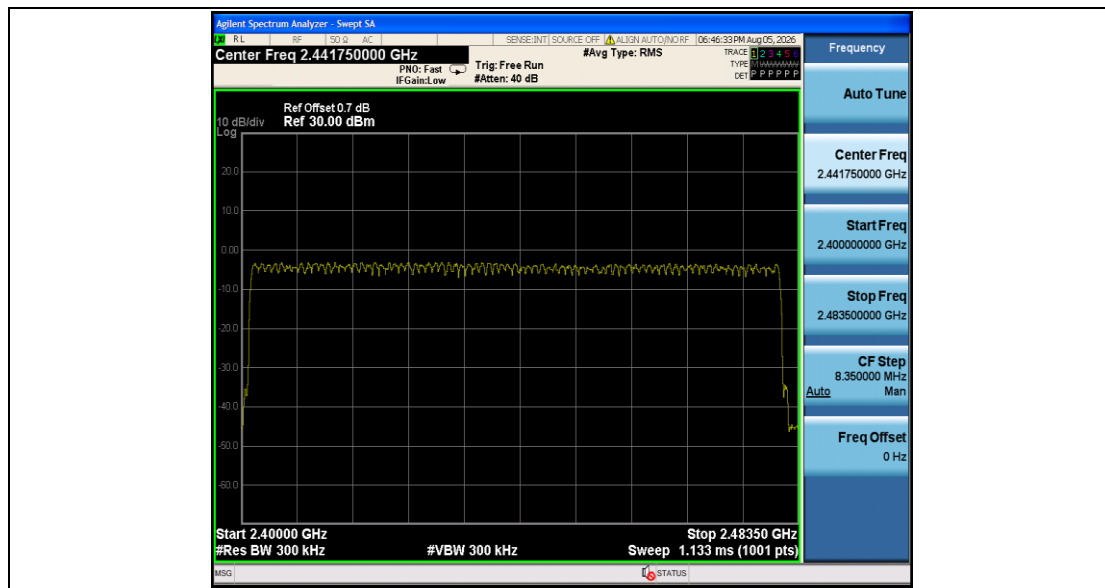
Appendix F: Number of hopping channels

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



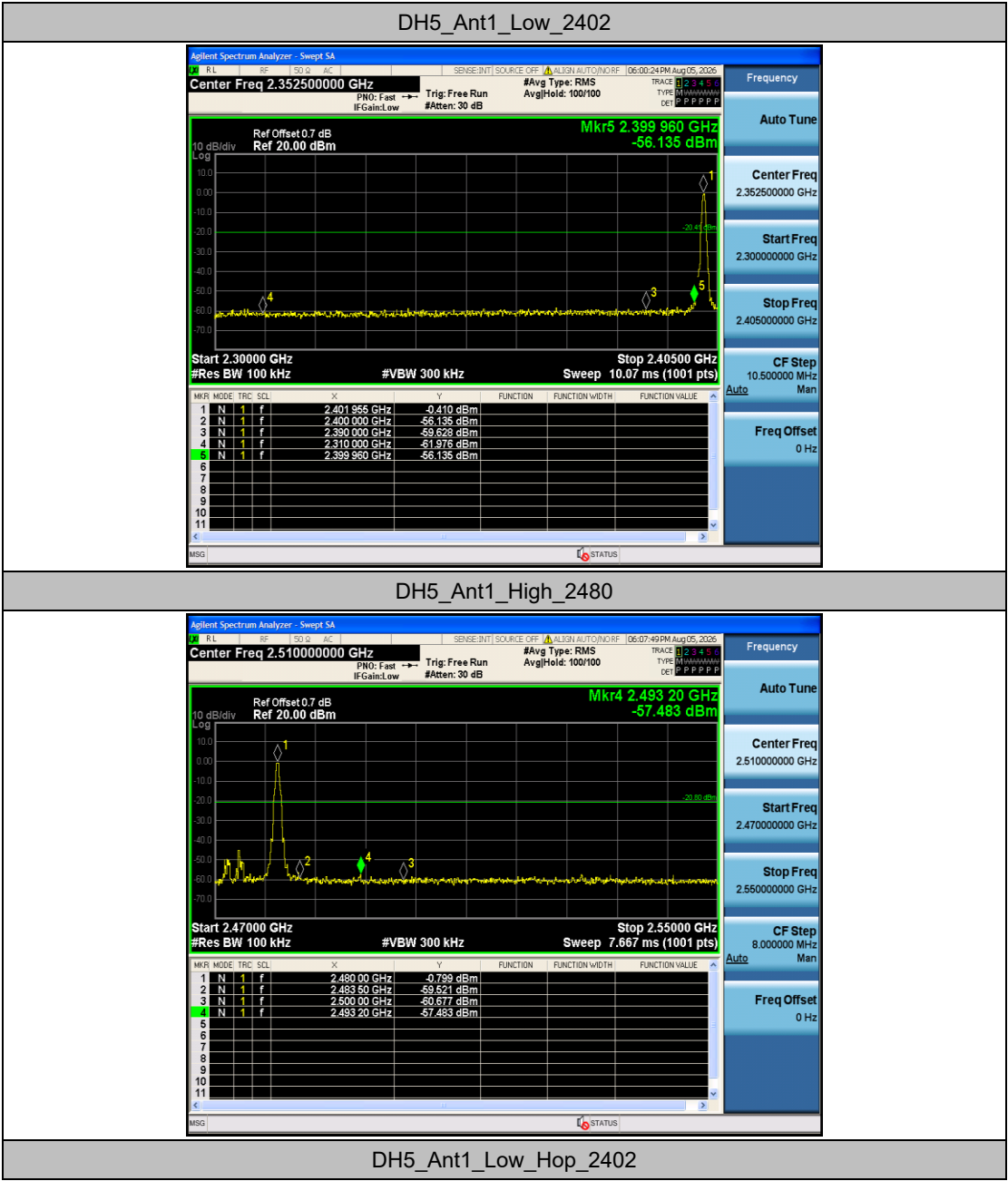


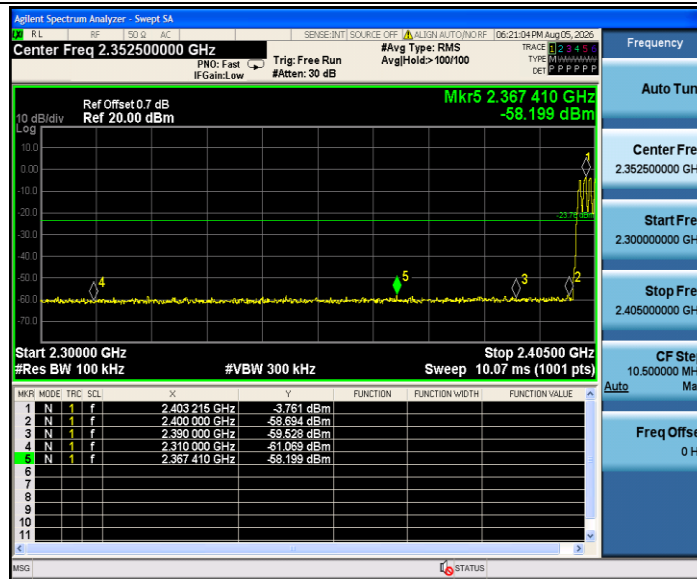
Appendix G: Band edge measurements

Test Result

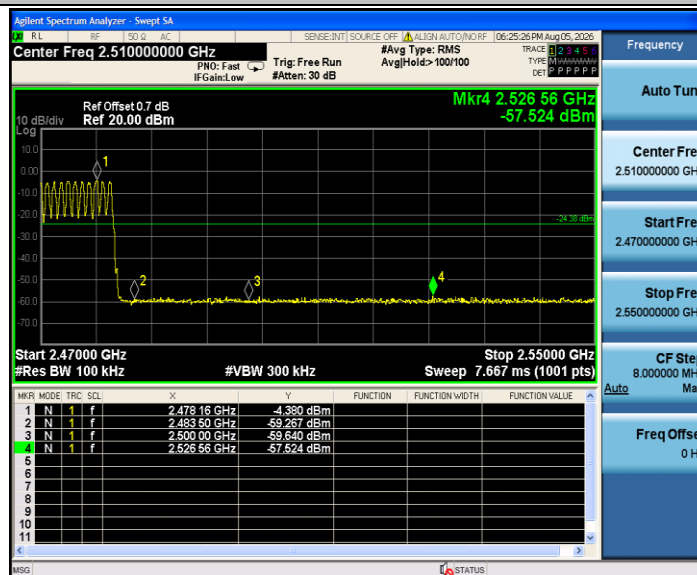
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.41	-56.14	≤ -20.41	PASS
		High	2480	-0.80	-57.48	≤ -20.8	PASS
		Low	Hop_2402	-3.76	-58.2	≤ -23.76	PASS
		High	Hop_2480	-4.38	-57.52	≤ -24.38	PASS
2DH5	Ant1	Low	2402	-6.10	-57.5	≤ -26.1	PASS
		High	2480	-3.46	-58.2	≤ -23.46	PASS
		Low	Hop_2402	-3.88	-57.62	≤ -23.88	PASS
		High	Hop_2480	-4.79	-57.4	≤ -24.79	PASS
3DH5	Ant1	Low	2402	-4.65	-57.08	≤ -24.65	PASS
		High	2480	-5.26	-57.66	≤ -25.26	PASS
		Low	Hop_2402	-6.09	-57.56	≤ -26.09	PASS
		High	Hop_2480	-4.80	-57.07	≤ -24.8	PASS

Test Graphs

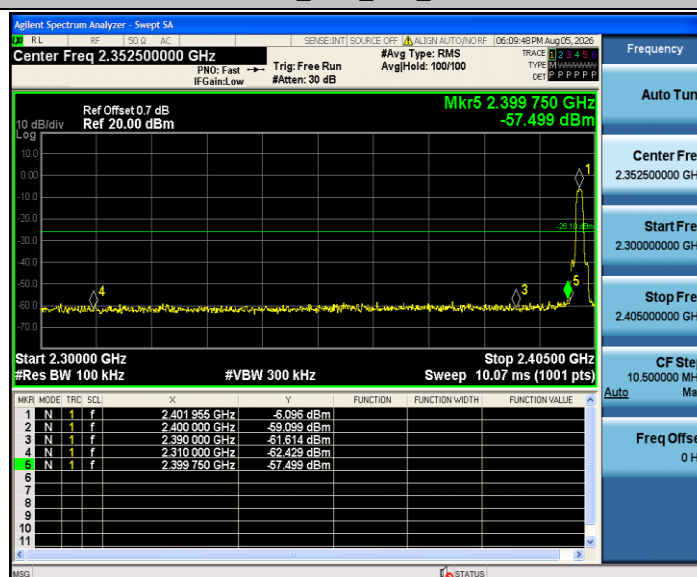




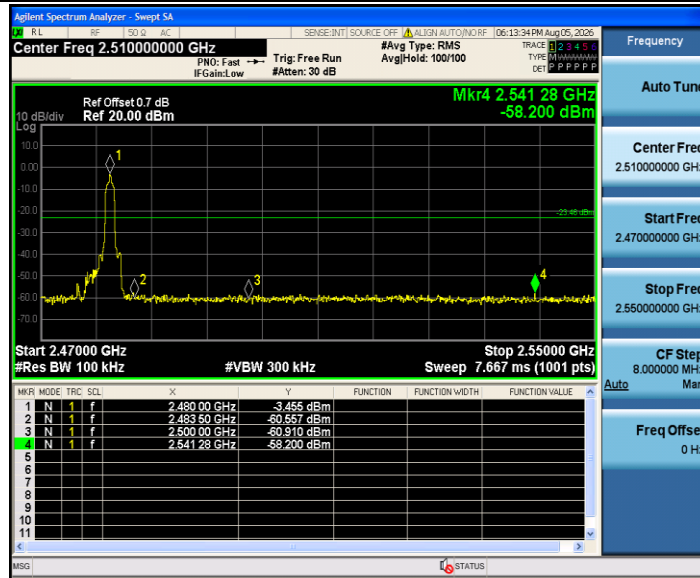
DH5_Ant1_High_Hop_2480



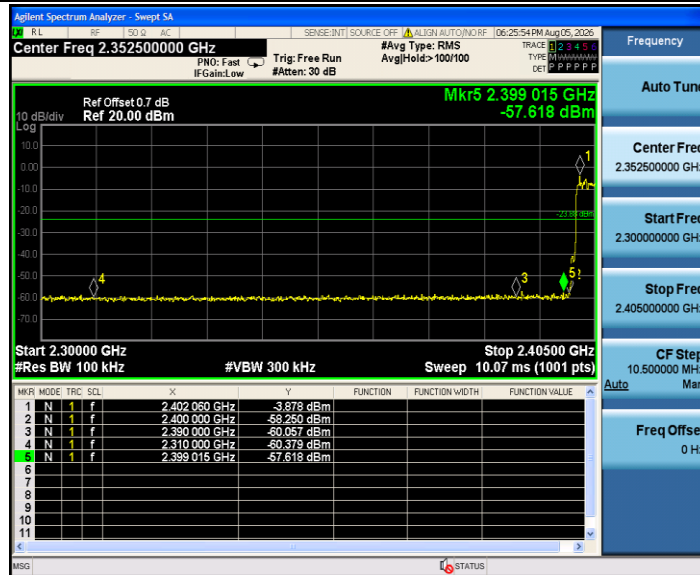
2DH5_Ant1_Low_2402



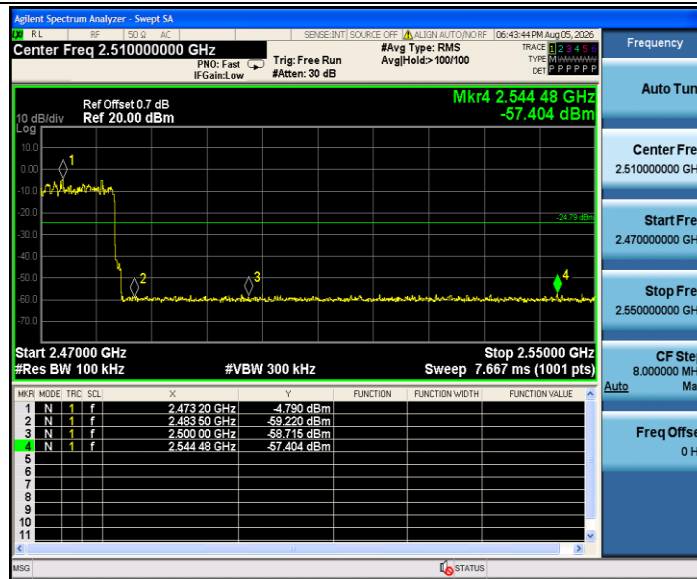
2DH5_Ant1_High_2480



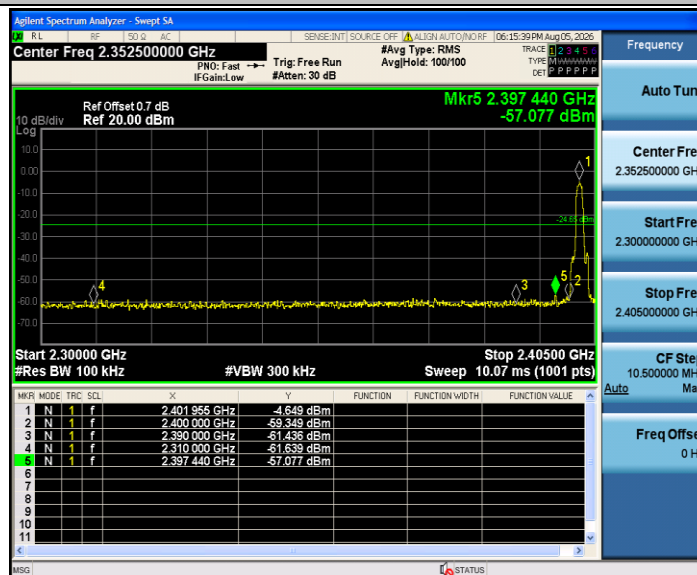
2DH5_Ant1_Low_Hop_2402



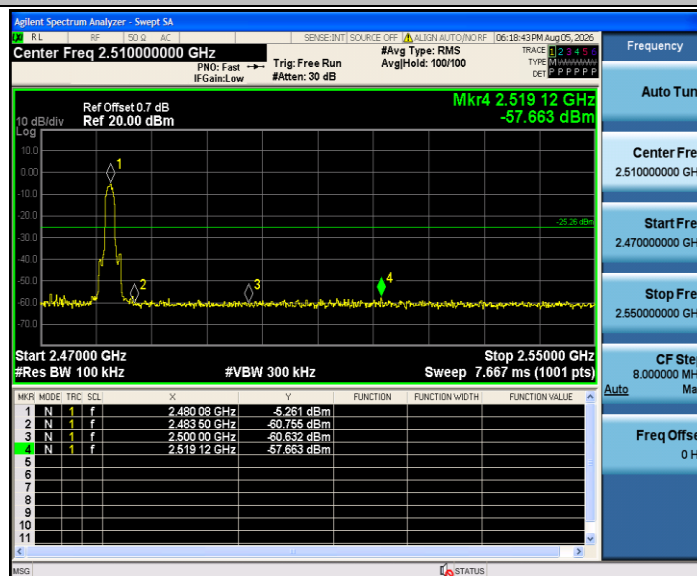
2DH5_Ant1_High_Hop_2480



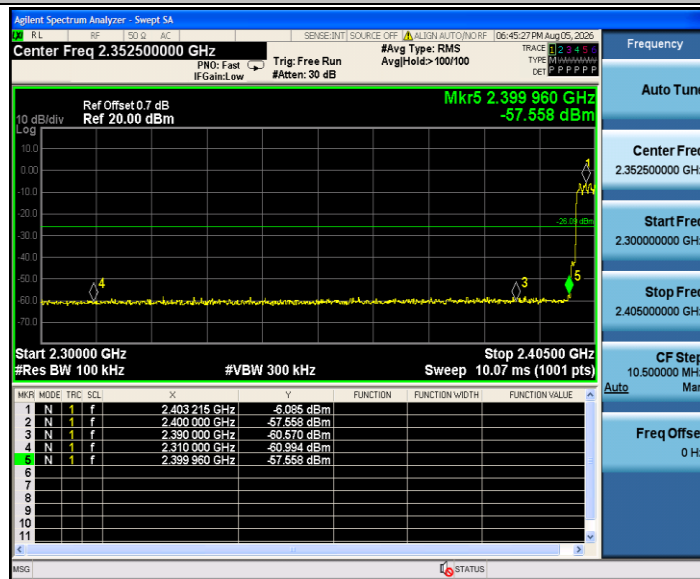
3DH5_Ant1_Low_2402



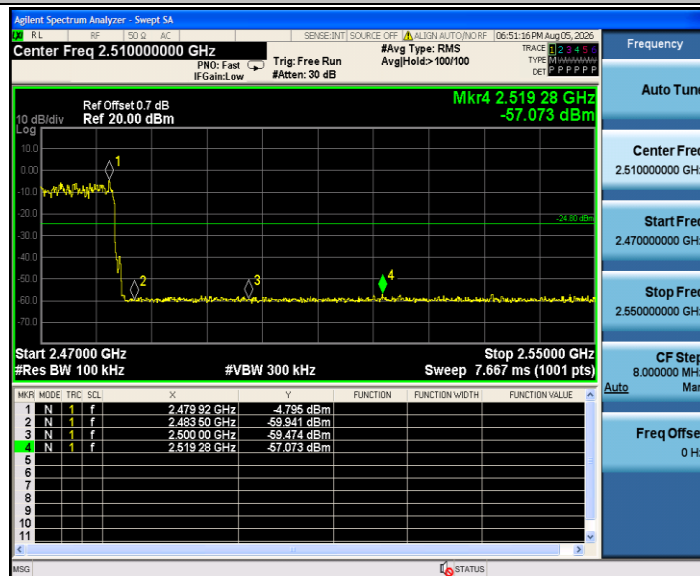
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

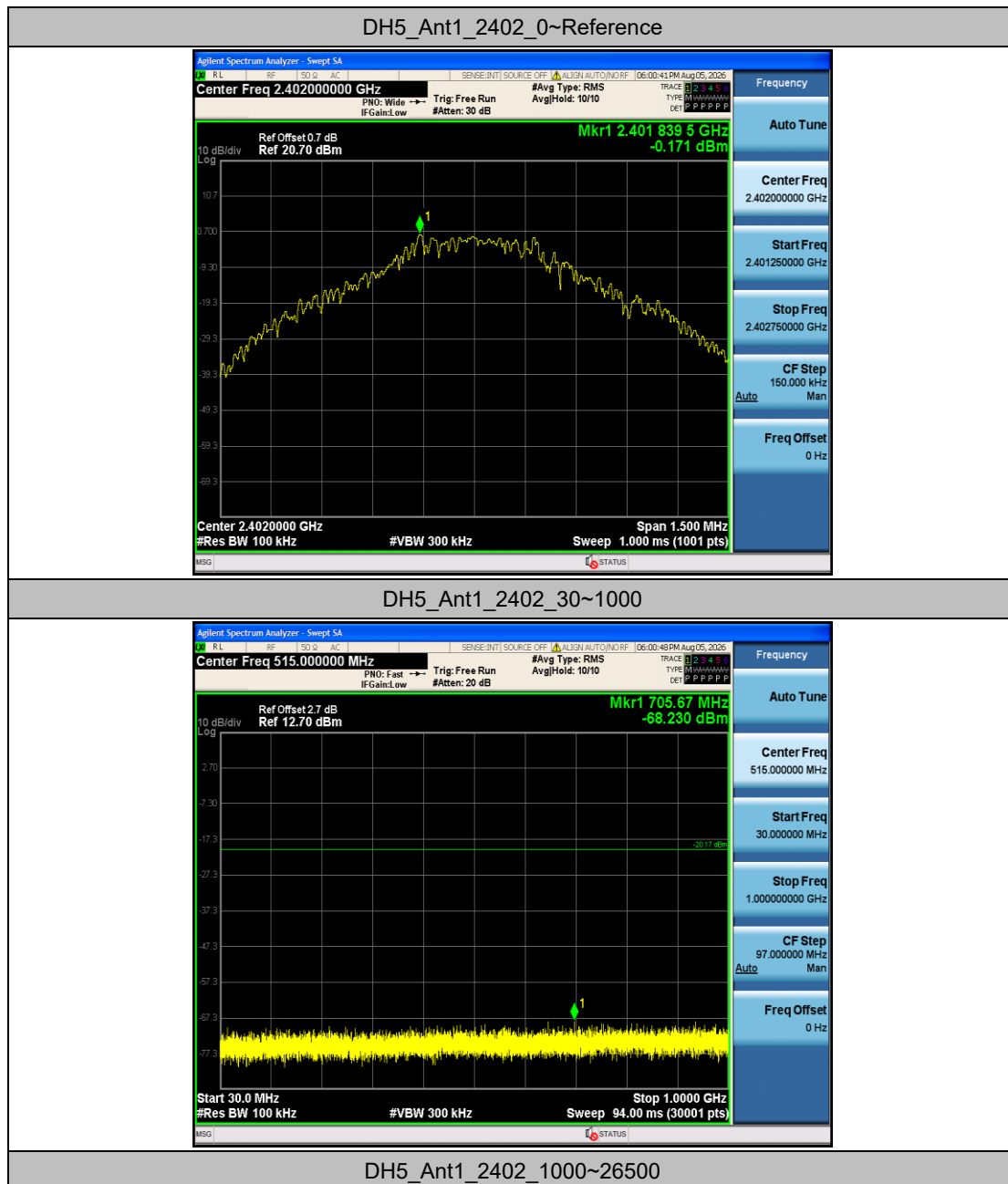


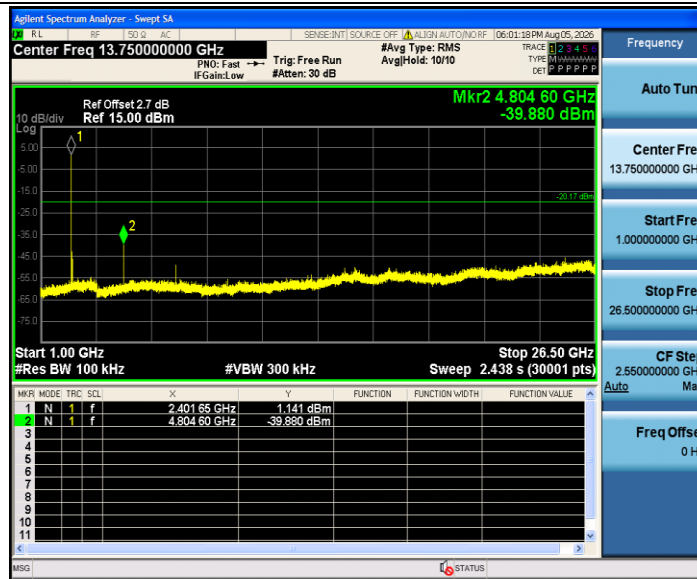
Appendix H: Conducted Spurious Emission

Test Result

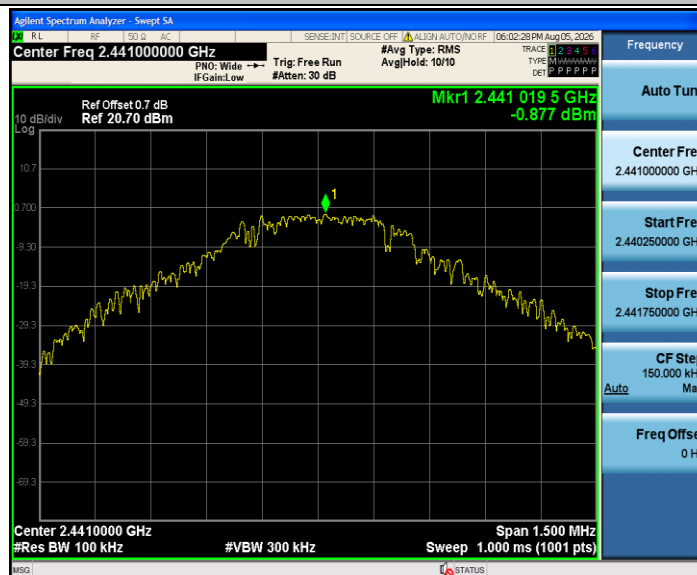
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.17	-0.17	---	PASS
			30~1000	-0.17	-68.23	≤-20.17	PASS
			1000~26500	-0.17	-39.88	≤-20.17	PASS
		2441	Reference	-0.88	-0.88	---	PASS
			30~1000	-0.88	-67.8	≤-20.88	PASS
			1000~26500	-0.88	-42.88	≤-20.88	PASS
		2480	Reference	-0.85	-0.85	---	PASS
			30~1000	-0.85	-68.28	≤-20.85	PASS
			1000~26500	-0.85	-41.69	≤-20.85	PASS
2DH5	Ant1	2402	Reference	-5.39	-5.39	---	PASS
			30~1000	-5.39	-67.75	≤-25.39	PASS
			1000~26500	-5.39	-45.41	≤-25.39	PASS
		2441	Reference	-3.83	-3.83	---	PASS
			30~1000	-3.83	-68.42	≤-23.83	PASS
			1000~26500	-3.83	-45.86	≤-23.83	PASS
		2480	Reference	-3.69	-3.69	---	PASS
			30~1000	-3.69	-68.65	≤-23.69	PASS
			1000~26500	-3.69	-46.23	≤-23.69	PASS
3DH5	Ant1	2402	Reference	-4.72	-4.72	---	PASS
			30~1000	-4.72	-68.3	≤-24.72	PASS
			1000~26500	-4.72	-44.88	≤-24.72	PASS
		2441	Reference	-5.91	-5.91	---	PASS
			30~1000	-5.91	-68.18	≤-25.91	PASS
			1000~26500	-5.91	-46.31	≤-25.91	PASS
		2480	Reference	-3.67	-3.67	---	PASS
			30~1000	-3.67	-68.51	≤-23.67	PASS
			1000~26500	-3.67	-46.91	≤-23.67	PASS

Test Graphs

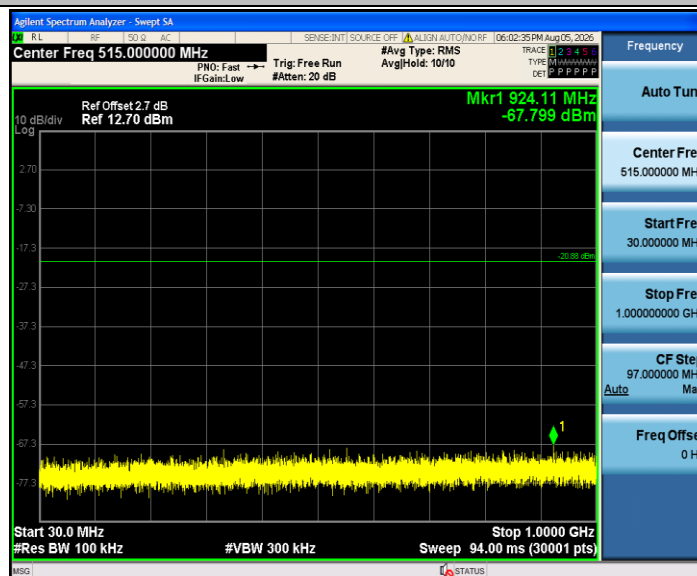




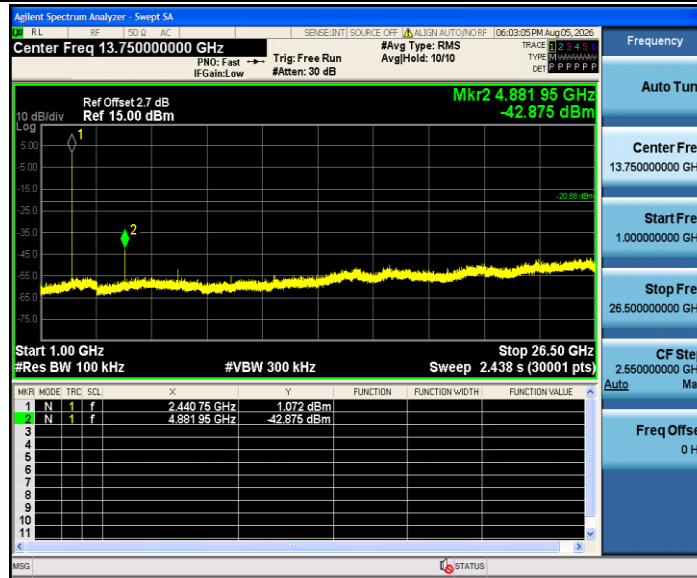
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



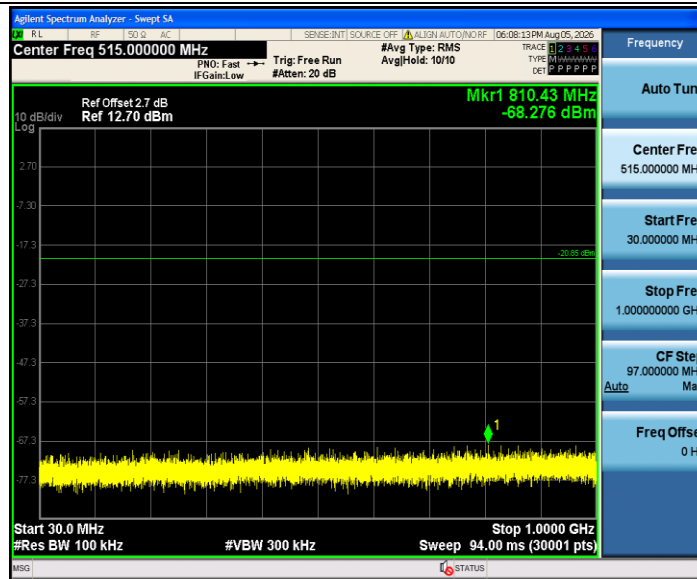
DH5_Ant1_2441_1000~26500



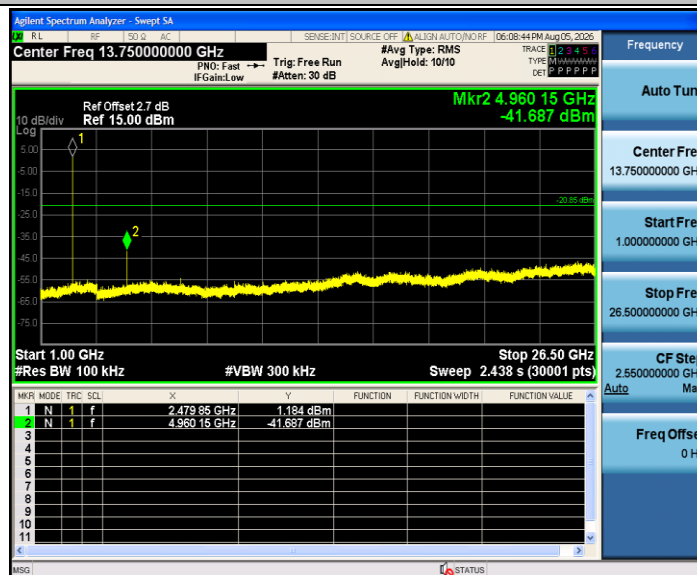
DH5_Ant1_2480_0~Reference



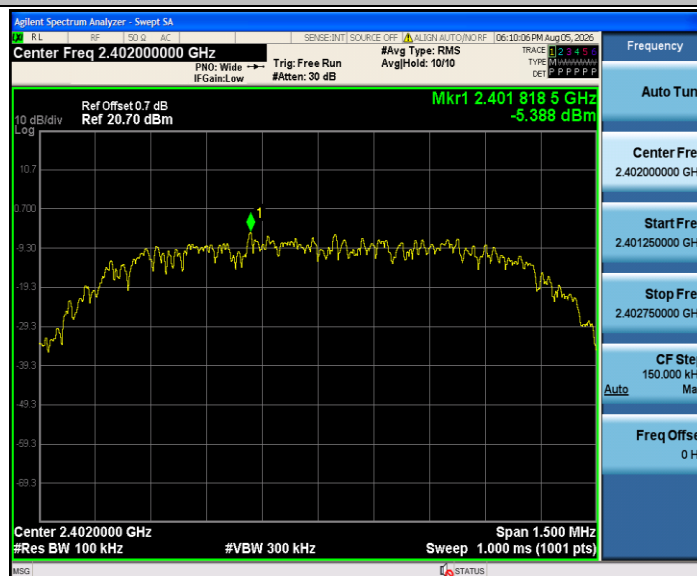
DH5_Ant1_2480_30~1000



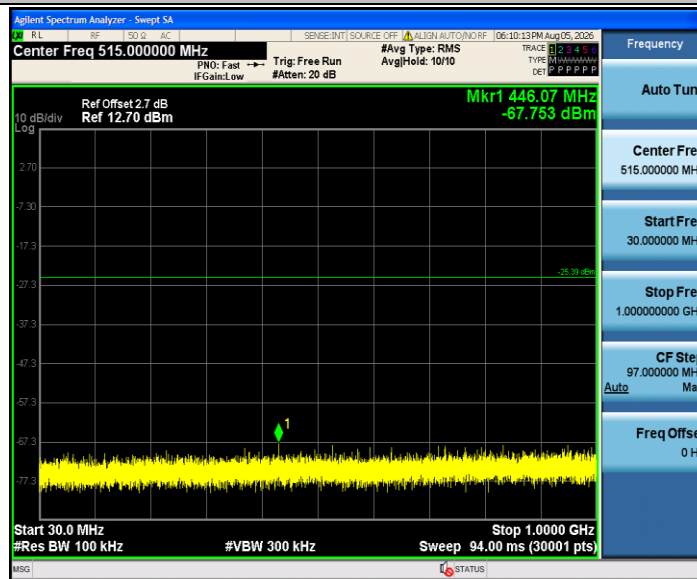
DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference