

FCC Appendix RF Test Data for BT

FCC ID : 2A6TN-SPT-181

Company : Shenzhen Link Dream Electronic Co.,Ltd

EUT : Bluetooth Page Turner Pedal

Model Number : SPT-181

Report No. : CTA26081000701

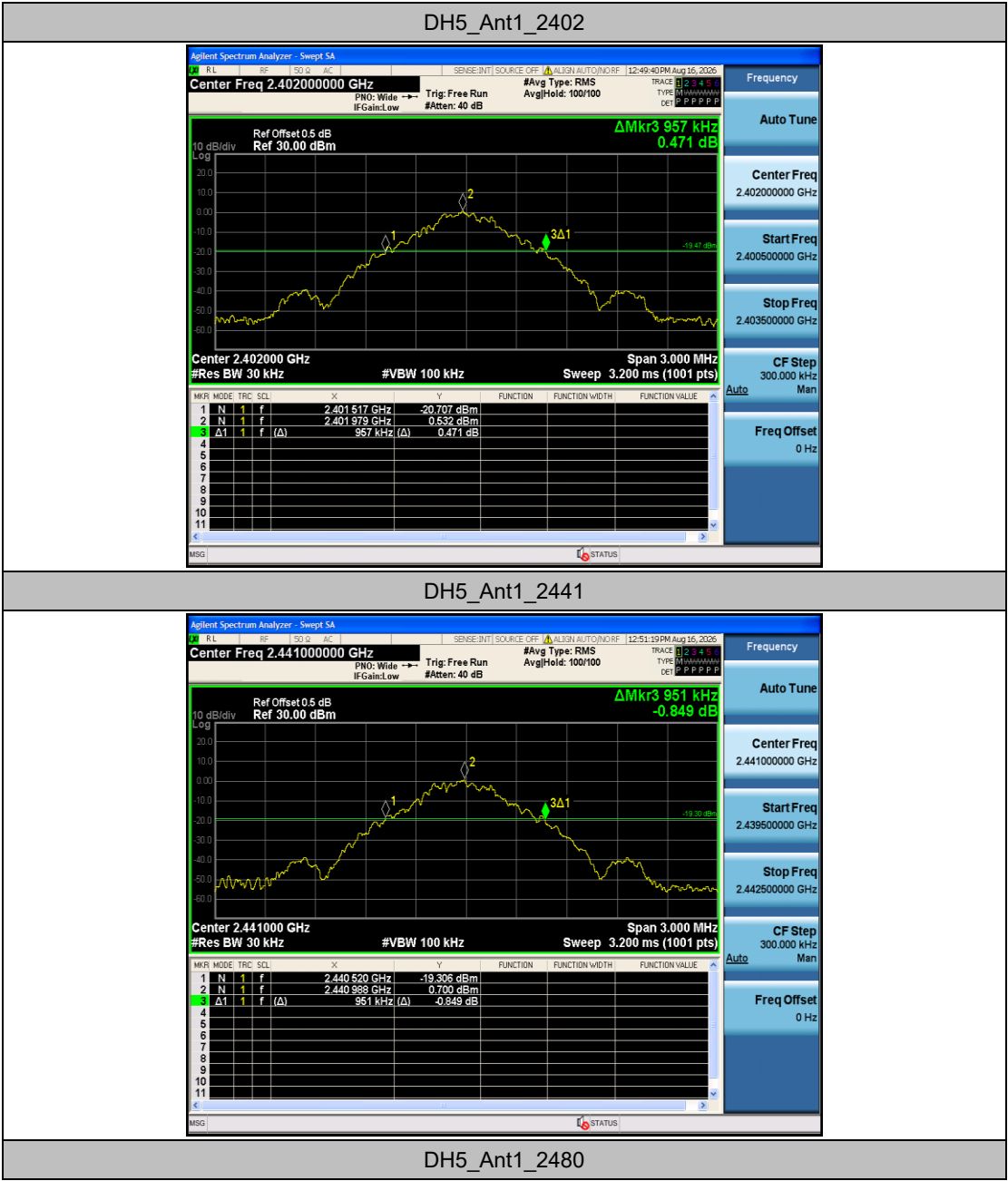
Reviewed By : Eric Wang

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	2401.517	2402.474	---	---
		2441	0.951	2440.520	2441.471	---	---
		2480	0.948	2479.520	2480.468	---	---
2DH5	Ant1	2402	1.329	2401.313	2402.642	---	---
		2441	1.320	2440.316	2441.636	---	---
		2480	1.320	2479.319	2480.639	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

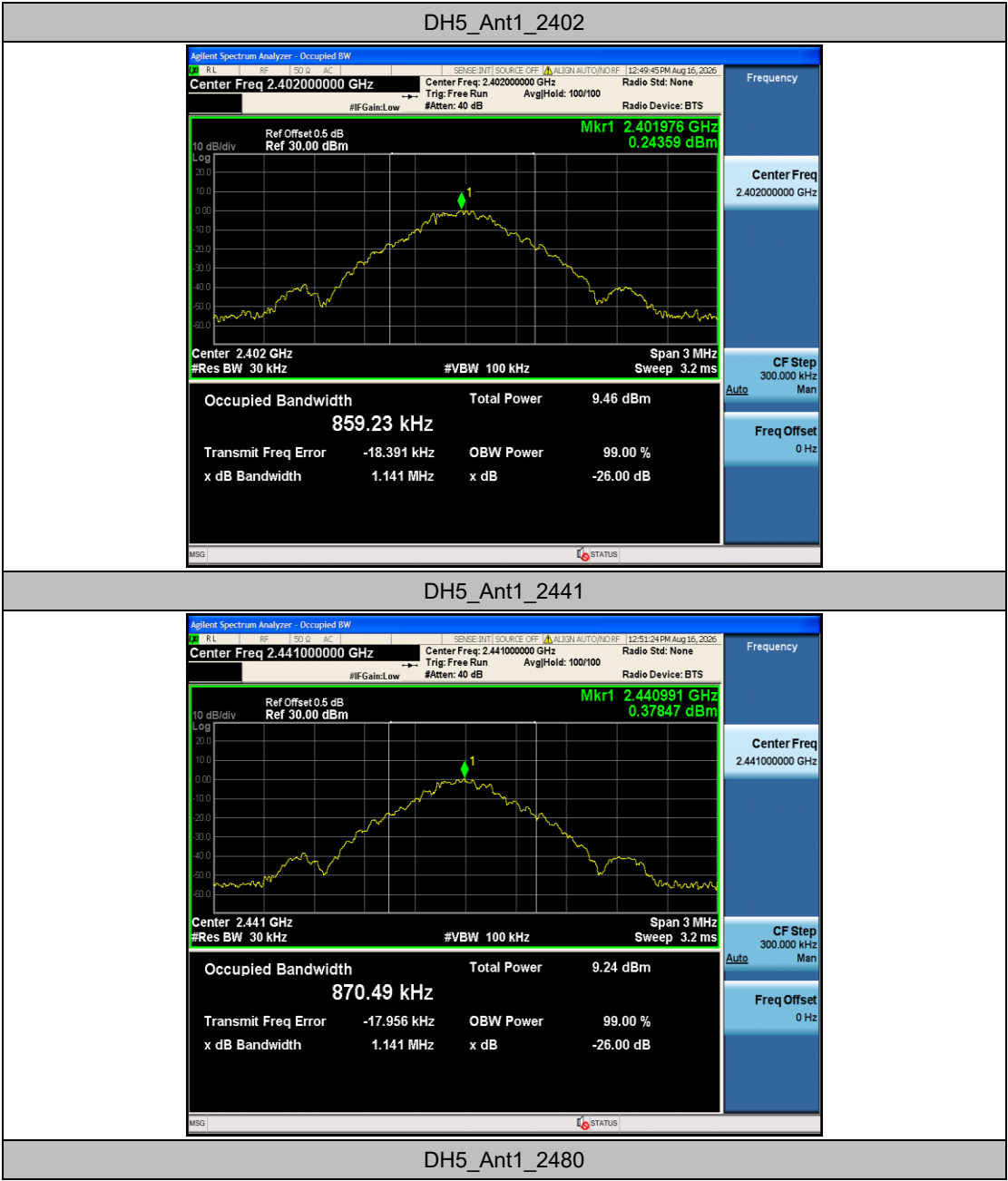


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85923	2401.5520	2402.4112	---	---
		2441	0.87049	2440.5468	2441.4173	---	---
		2480	0.85522	2479.5489	2480.4042	---	---
2DH5	Ant1	2402	1.1731	2401.3938	2402.5669	---	---
		2441	1.1755	2440.3946	2441.5701	---	---
		2480	1.1620	2479.3972	2480.5592	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

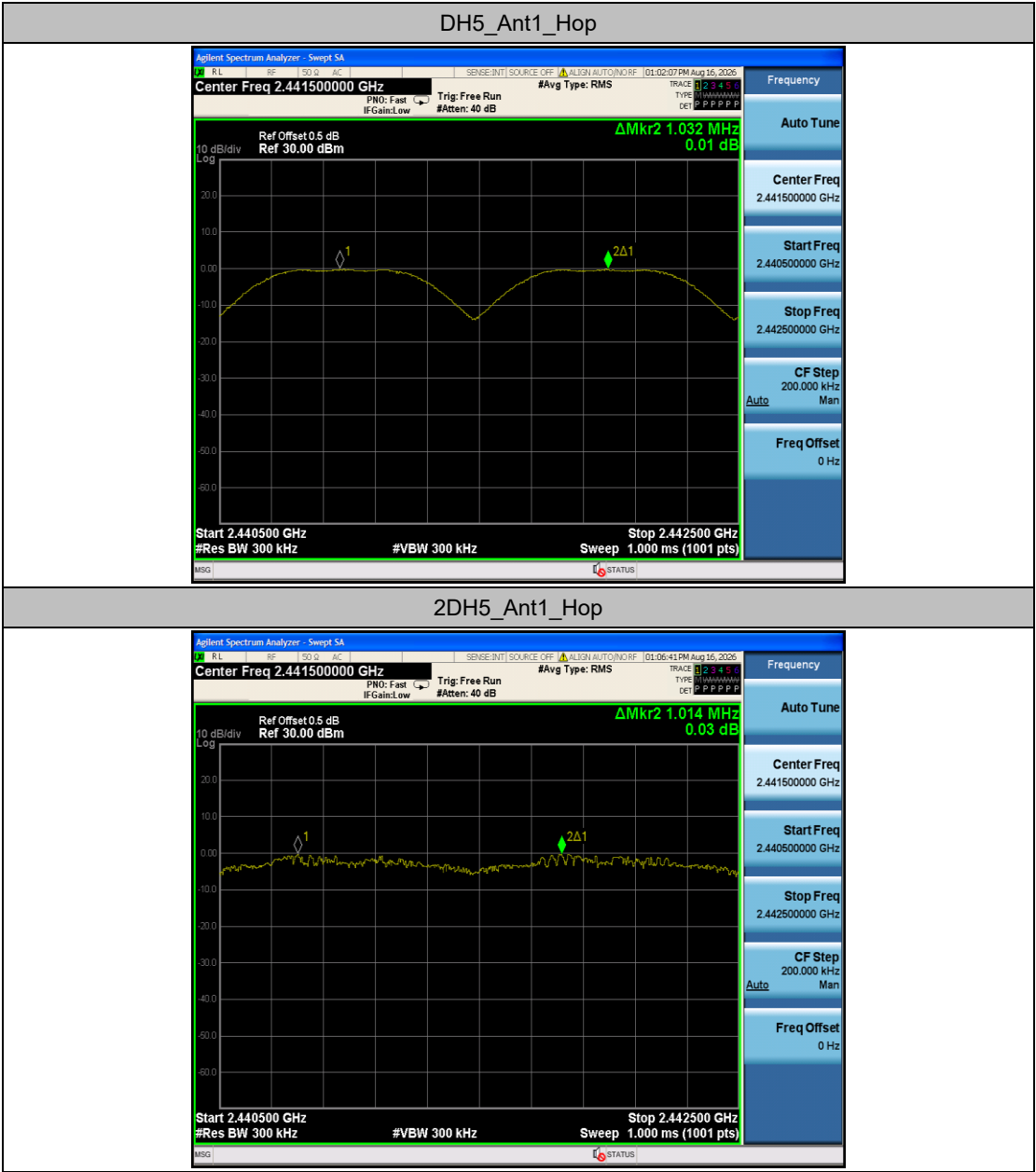
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	3.02	≤20.97	PASS
		2441	2.97	≤20.97	PASS
		2480	3.05	≤20.97	PASS
2DH5	Ant1	2402	0.71	≤20.97	PASS
		2441	0.79	≤20.97	PASS
		2480	0.77	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.032	≥ 0.957	PASS
2DH5	Ant1	Hop	1.014	≥ 0.886	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	0.408	316	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.664	165	0.275	≤0.4	PASS
DH5	Ant1	Hop	2.912	110	0.32	≤0.4	PASS
2DH1	Ant1	Hop	0.417	318	0.133	≤0.4	PASS
2DH3	Ant1	Hop	1.669	153	0.255	≤0.4	PASS
2DH5	Ant1	Hop	2.917	101	0.295	≤0.4	PASS

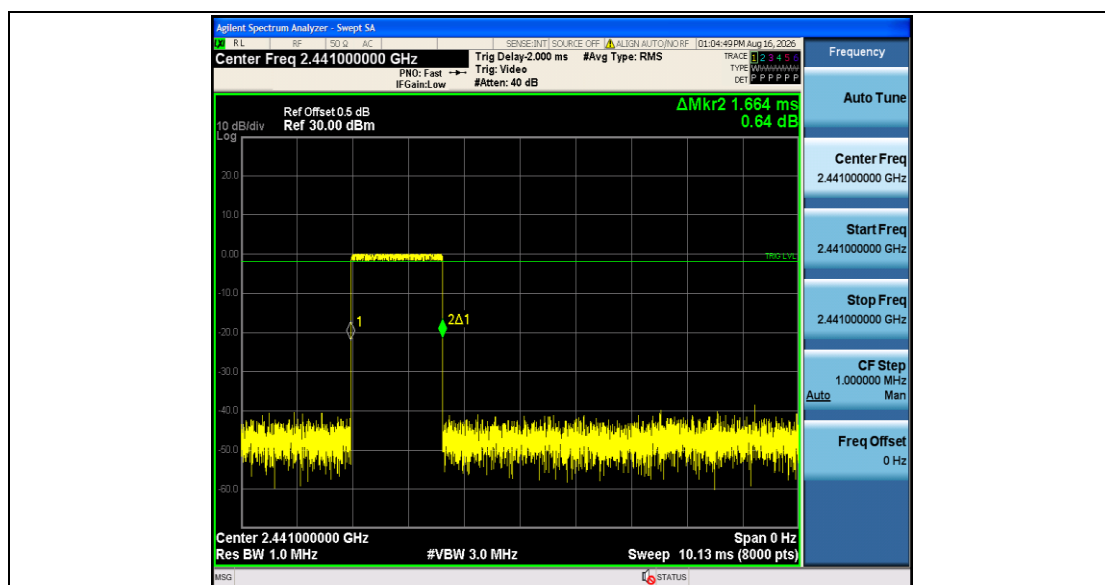
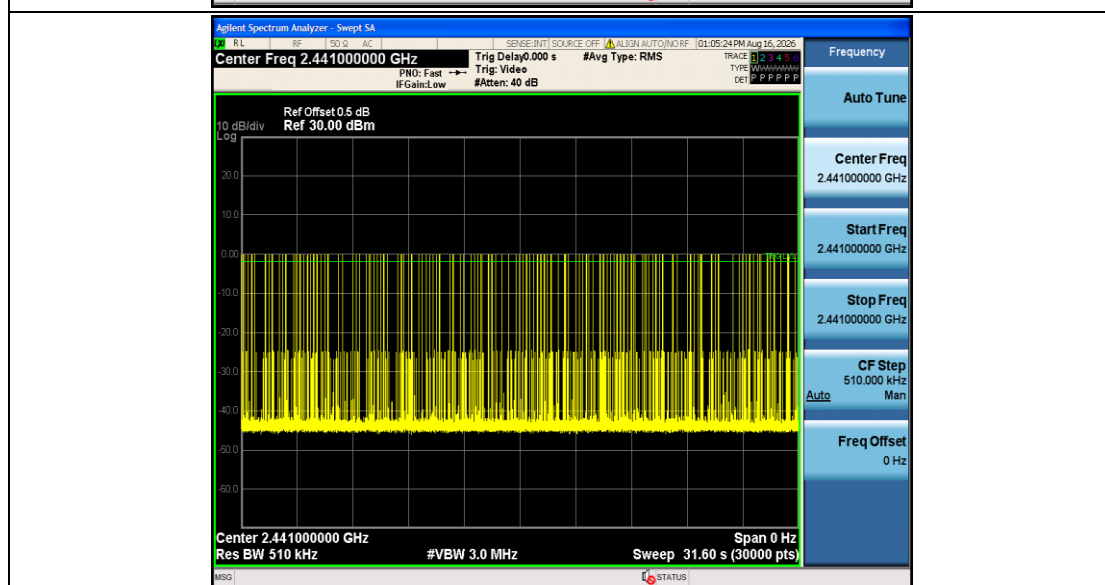
Figure 10 shows two screenshots of an Agilent Spectrum Analyzer displaying the results of a sweep test. The top screenshot shows the spectrum with a center frequency of 2.441000000 GHz, a resolution bandwidth (Res BW) of 1.0 MHz, and a span of 0 Hz. The bottom screenshot shows the spectrum with a center frequency of 2.441000000 GHz, a resolution bandwidth (Res BW) of 510 kHz, and a span of 0 Hz. Both screenshots show a signal with a peak at 2.441000000 GHz, labeled '2A1'.

Top Screenshot: Agilent Spectrum Analyzer - Sweep SA

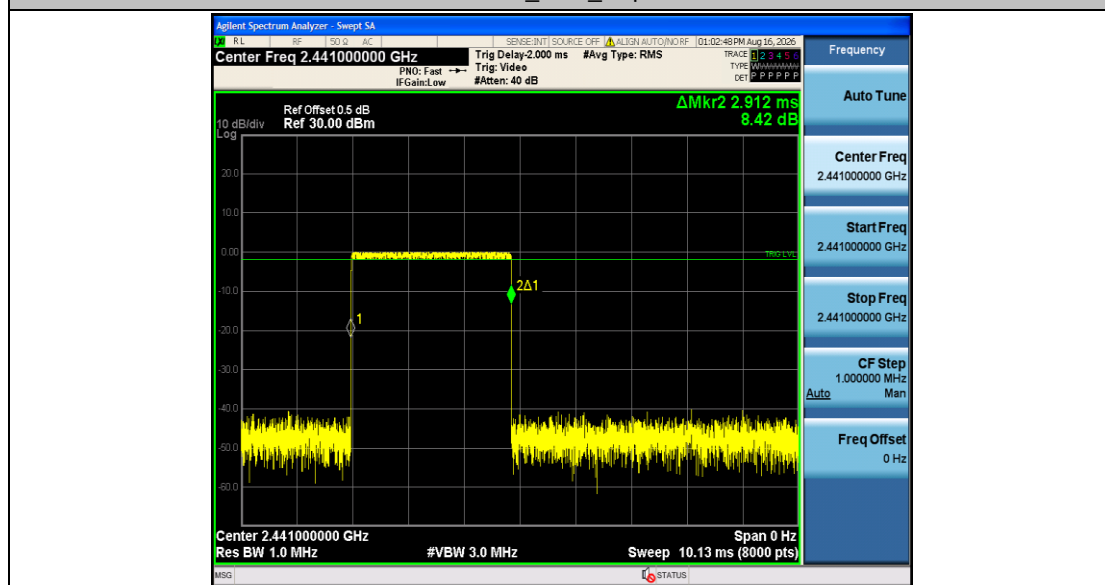
- Center Freq: 2.441000000 GHz
- Ref Offset: 0.5 dB
- Ref: 30.00 dBm
- Trig Delay: 2.000 ms
- Trig: Video
- #Avg Type: RMS
- #Atten: 40 dB
- Span: 0 Hz
- Res BW: 1.0 MHz
- #VBW: 3.0 MHz
- Sweep: 10.13 ms (8000 pts)
- Peak Label: 2A1
- Marker: ΔMkr2 408.0 μs, 6.53 dB

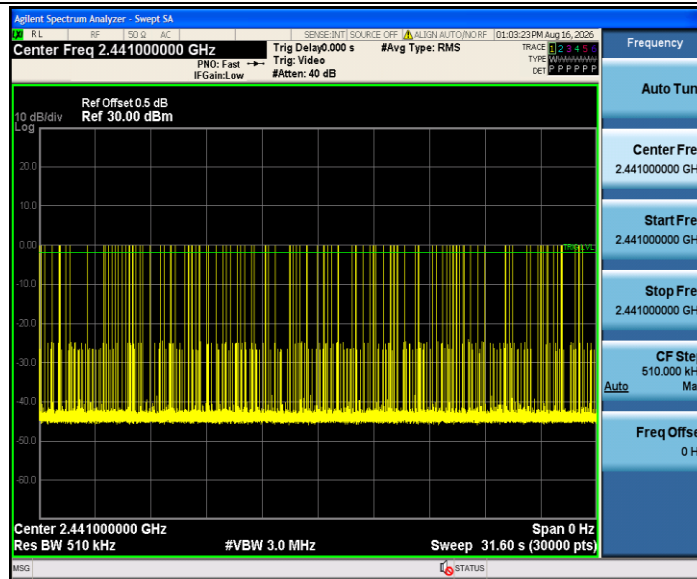
Bottom Screenshot: Agilent Spectrum Analyzer - Sweep SA

- Center Freq: 2.441000000 GHz
- Ref Offset: 0.5 dB
- Ref: 30.00 dBm
- Trig Delay: 0.000 s
- Trig: Video
- #Avg Type: RMS
- #Atten: 40 dB
- Span: 0 Hz
- Res BW: 510 kHz
- #VBW: 3.0 MHz
- Sweep: 31.60 s (30000 pts)
- Peak Label: 2A1

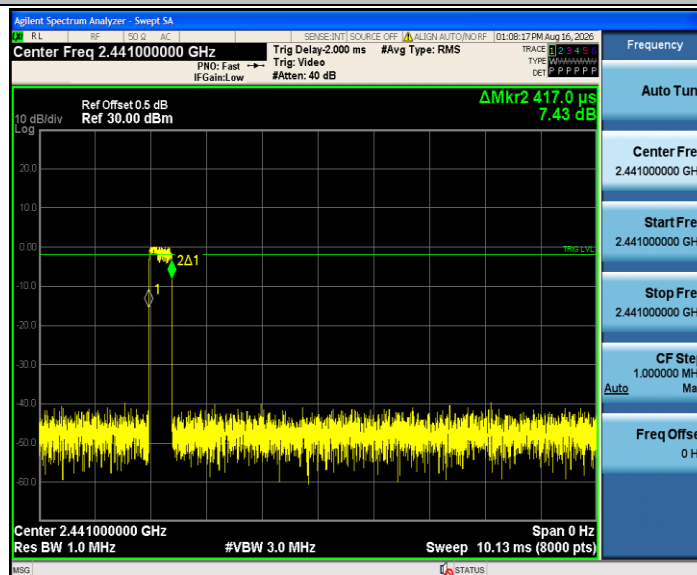
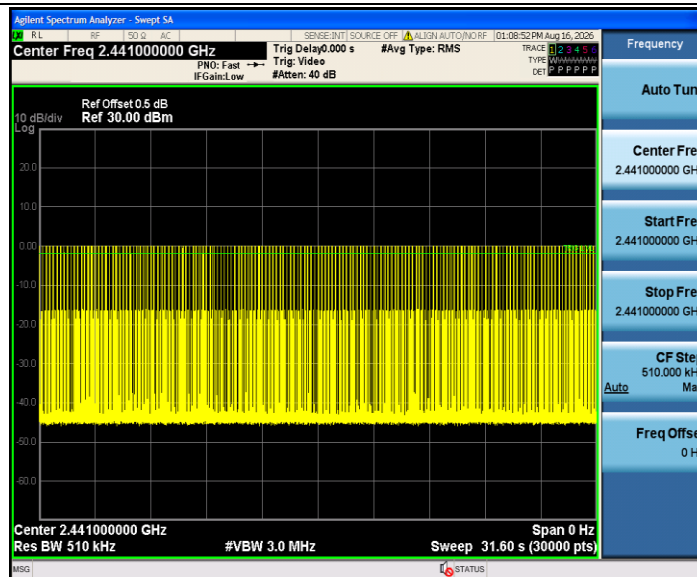


DH5_Ant1_Hop

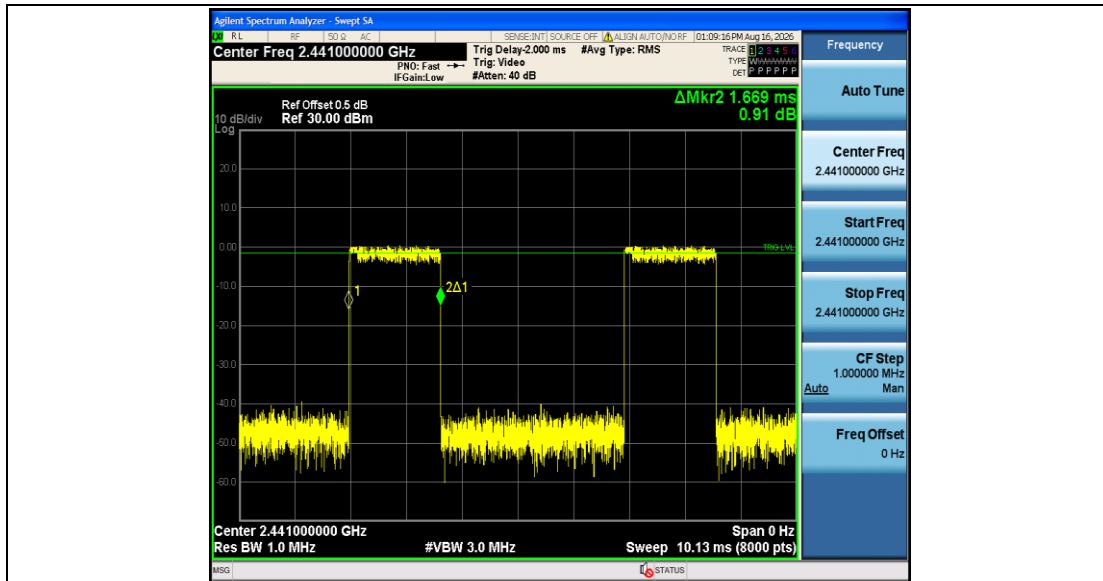
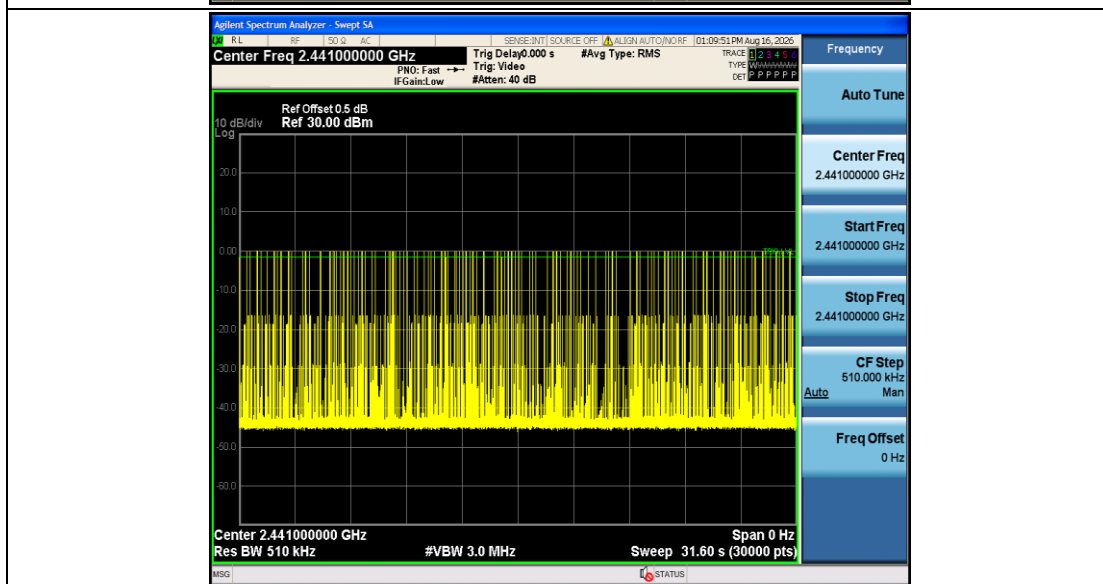




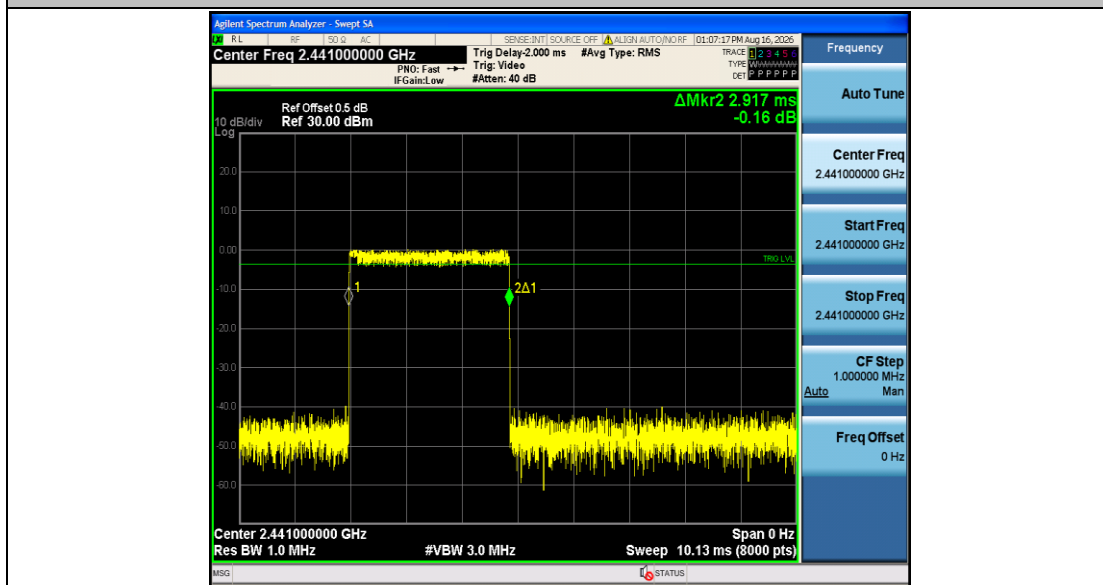
2DH1_Ant1_Hop

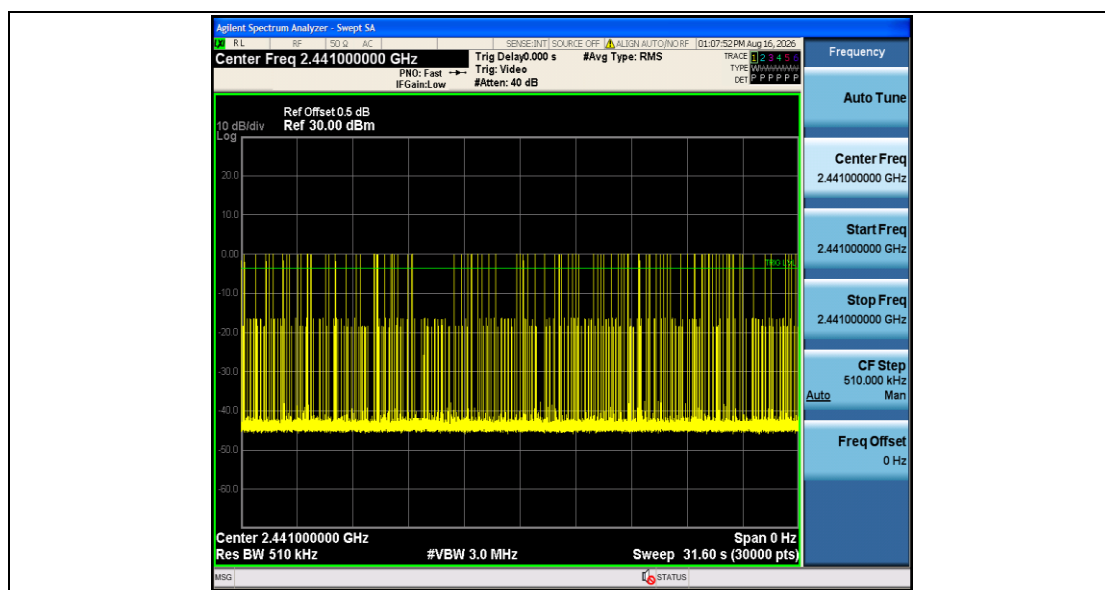


2DH3_Ant1_Hop



2DH5_Ant1_Hop



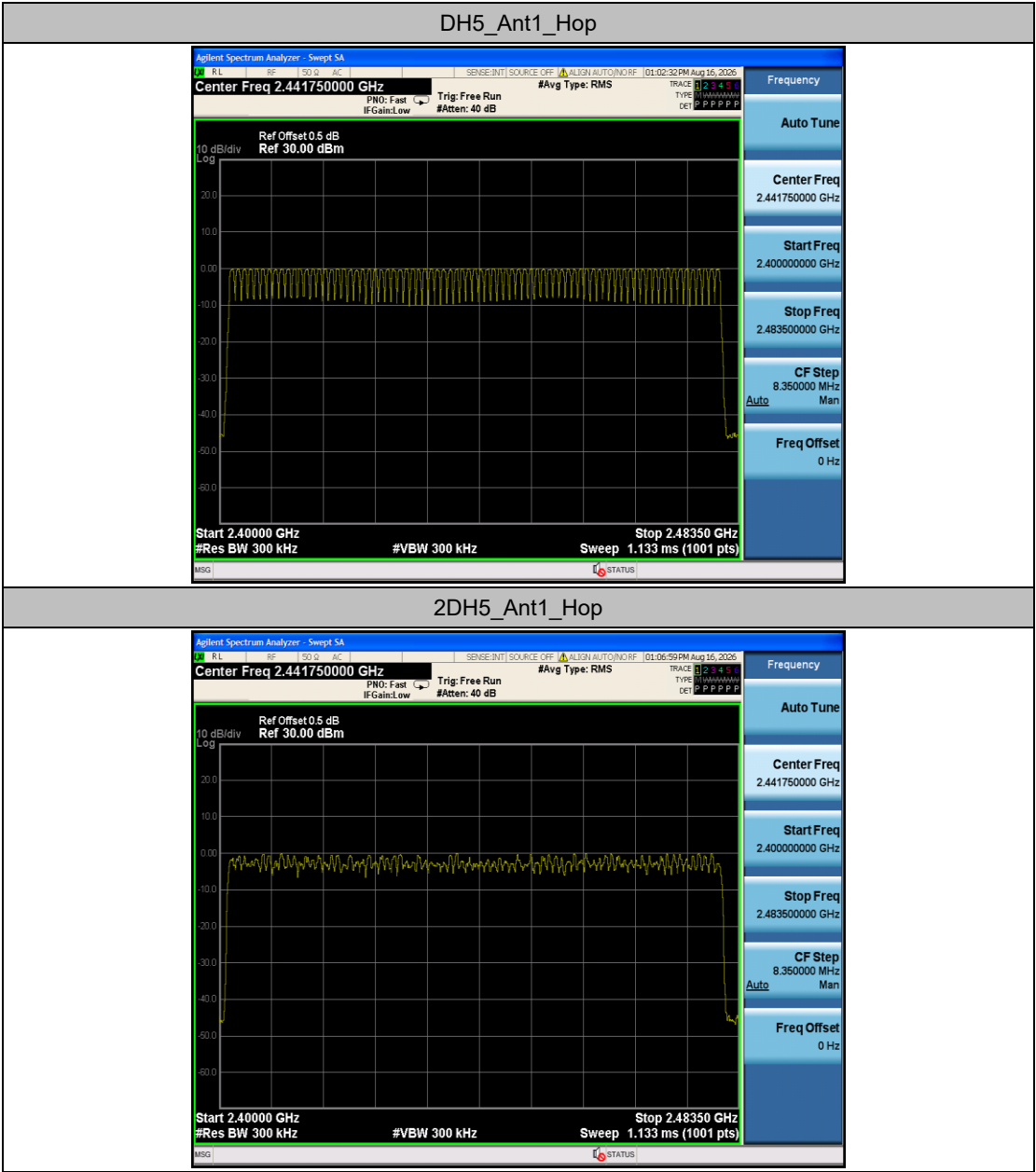


Appendix F: Number of hopping channels

Test Result

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

Test Graphs

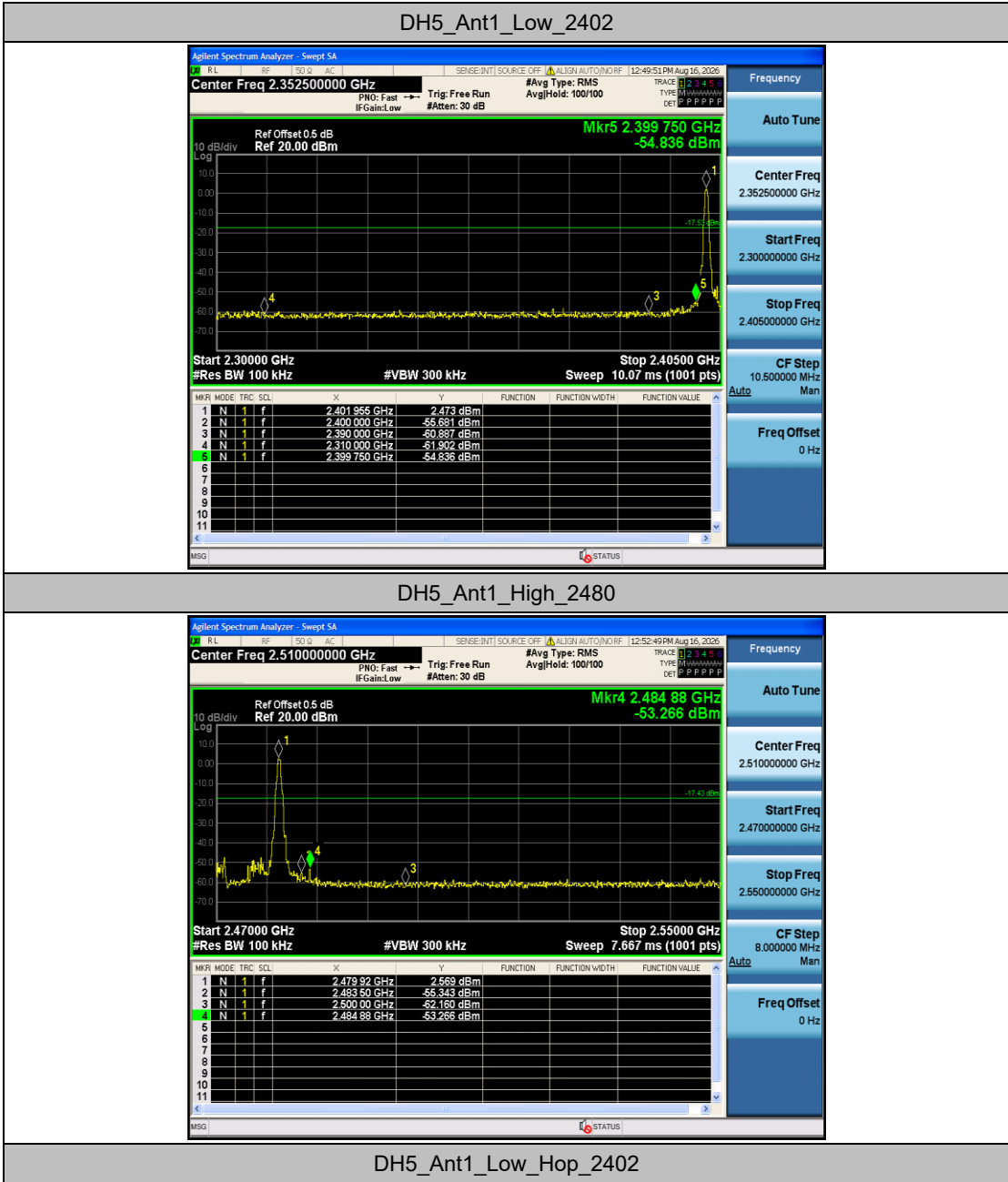


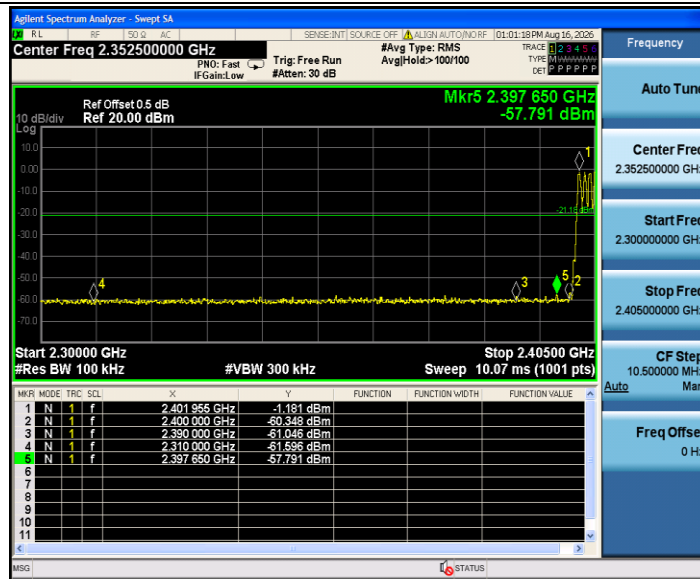
Appendix G: Band edge measurements

Test Result

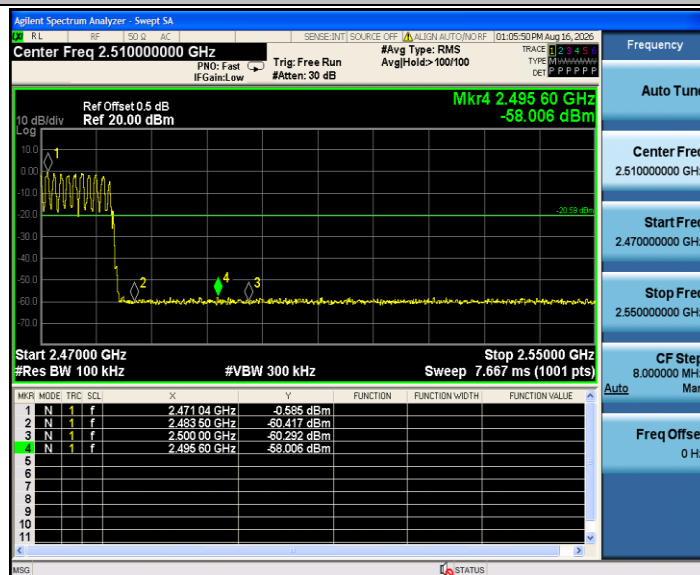
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.47	-54.84	≤-17.53	PASS
		High	2480	2.57	-53.27	≤-17.43	PASS
		Low	Hop_2402	-1.18	-57.79	≤-21.18	PASS
		High	Hop_2480	-0.59	-58.01	≤-20.59	PASS
2DH5	Ant1	Low	2402	-0.70	-55.73	≤-20.7	PASS
		High	2480	-2.28	-57.59	≤-22.28	PASS
		Low	Hop_2402	-1.37	-57.25	≤-21.37	PASS
		High	Hop_2480	-0.69	-57.97	≤-20.69	PASS

Test Graphs

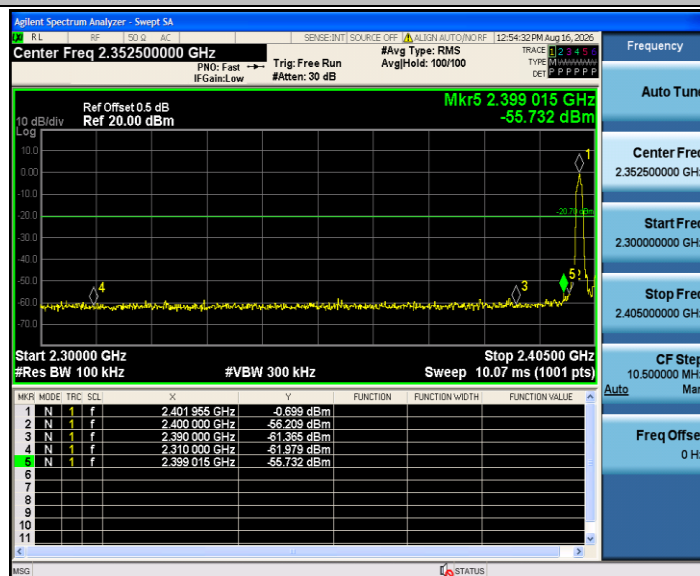




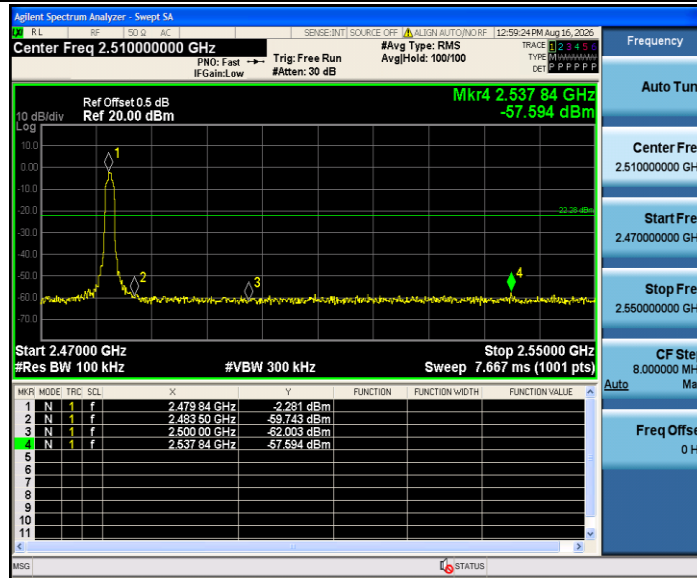
DH5_Ant1_High_Hop_2480



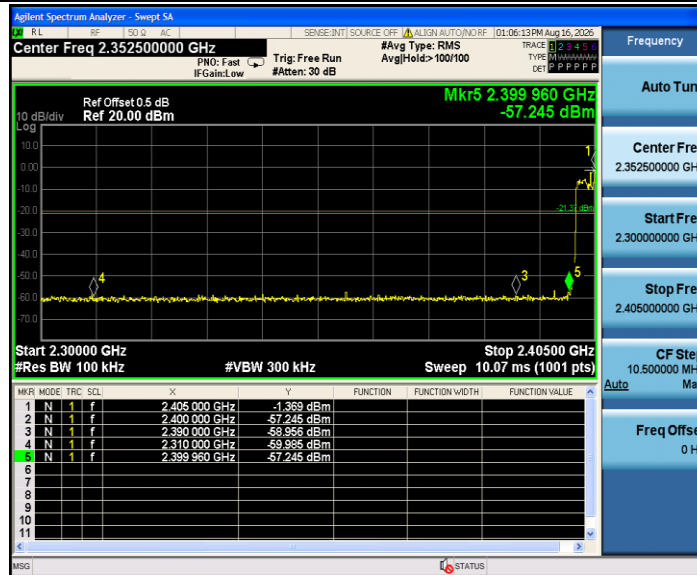
2DH5_Ant1_Low_2402



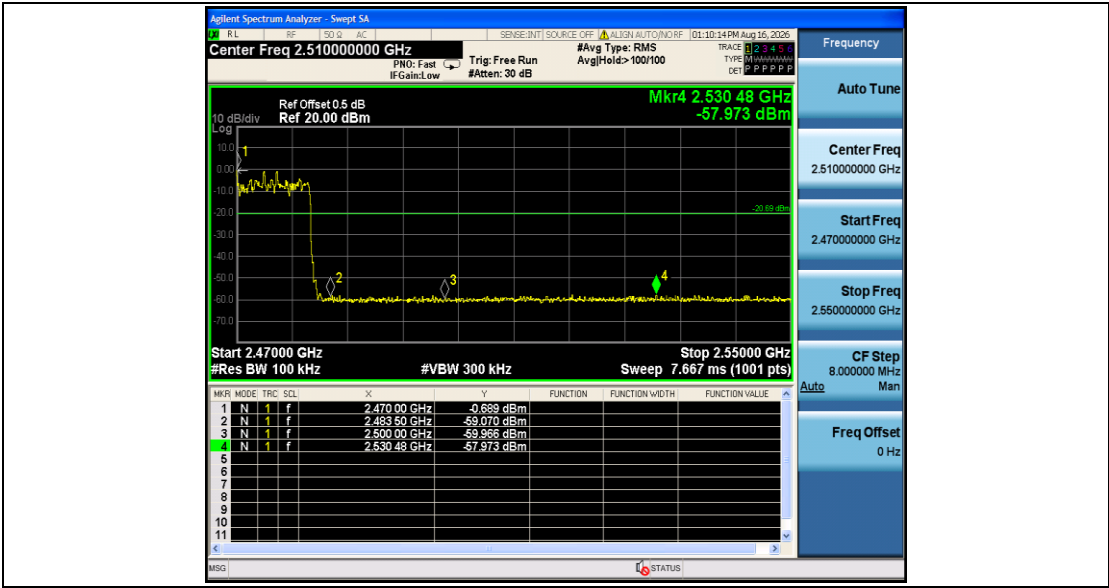
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

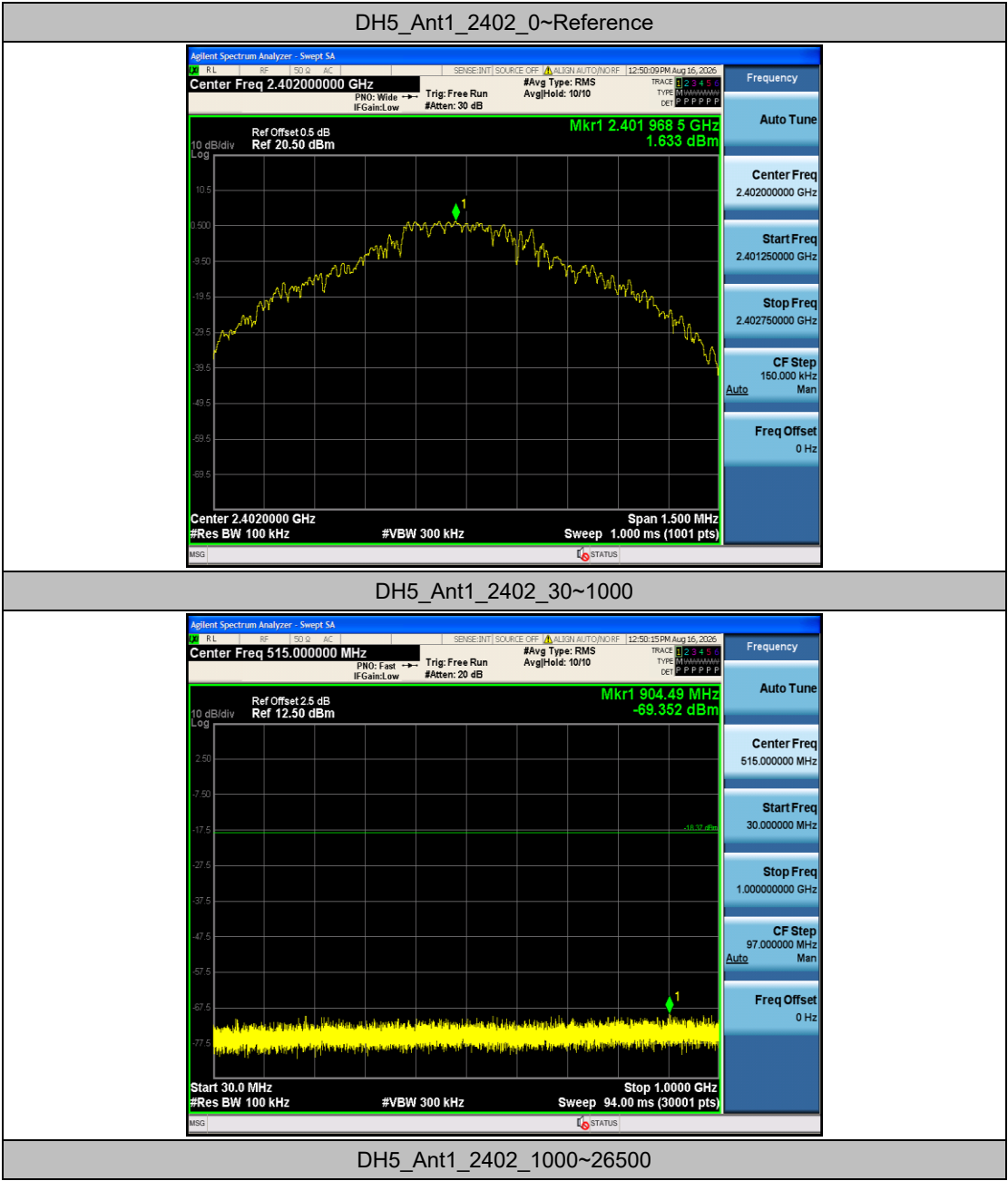


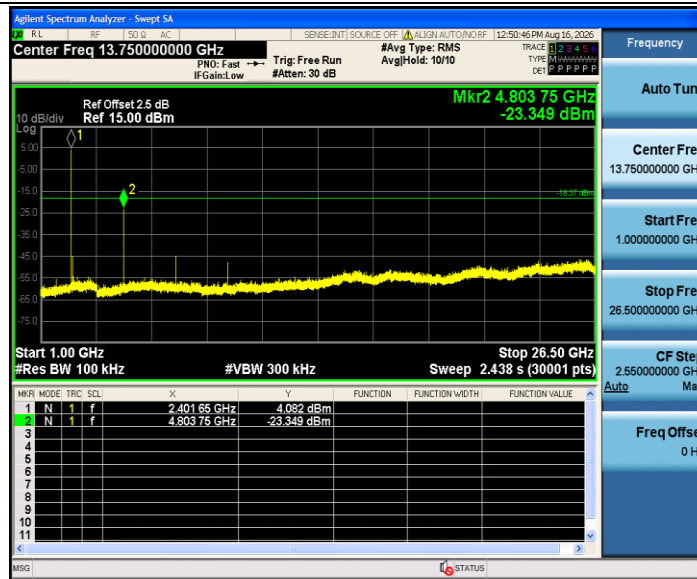
Appendix H: Conducted Spurious Emission

Test Result

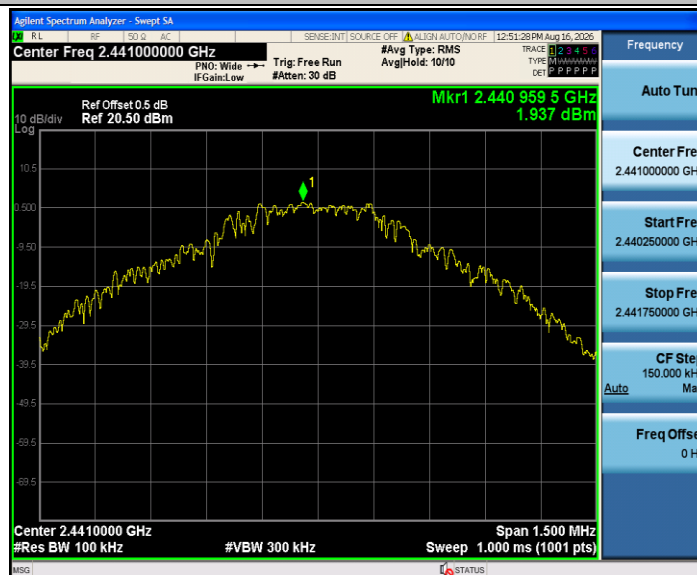
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.63	1.63	---	PASS
			30~1000	1.63	-69.35	≤-18.37	PASS
			1000~26500	1.63	-23.35	≤-18.37	PASS
		2441	Reference	1.94	1.94	---	PASS
			30~1000	1.94	-69.05	≤-18.06	PASS
			1000~26500	1.94	-26.2	≤-18.06	PASS
		2480	Reference	1.59	1.59	---	PASS
			30~1000	1.59	-68.91	≤-18.41	PASS
			1000~26500	1.59	-28	≤-18.41	PASS
2DH5	Ant1	2402	Reference	-1.46	-1.46	---	PASS
			30~1000	-1.46	-69.03	≤-21.46	PASS
			1000~26500	-1.46	-33.59	≤-21.46	PASS
		2441	Reference	-1.00	-1.00	---	PASS
			30~1000	-1.00	-68.73	≤-21	PASS
			1000~26500	-1.00	-29.24	≤-21	PASS
		2480	Reference	-1.61	-1.61	---	PASS
			30~1000	-1.61	-68.47	≤-21.61	PASS
			1000~26500	-1.61	-37.09	≤-21.61	PASS

Test Graphs

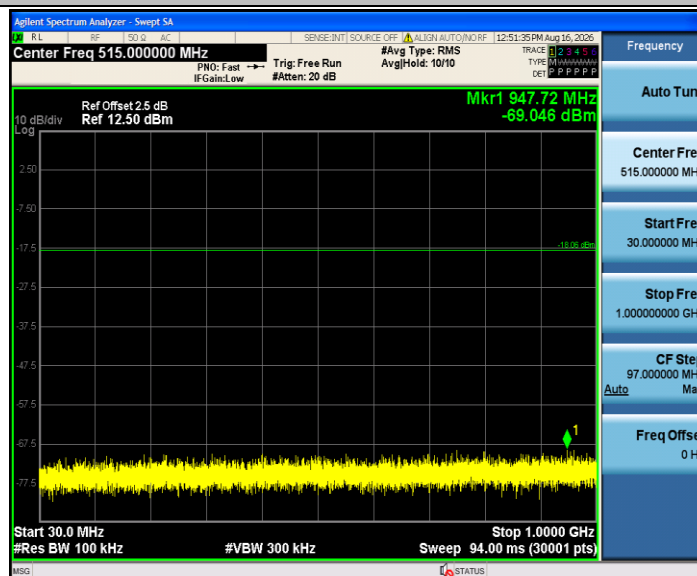




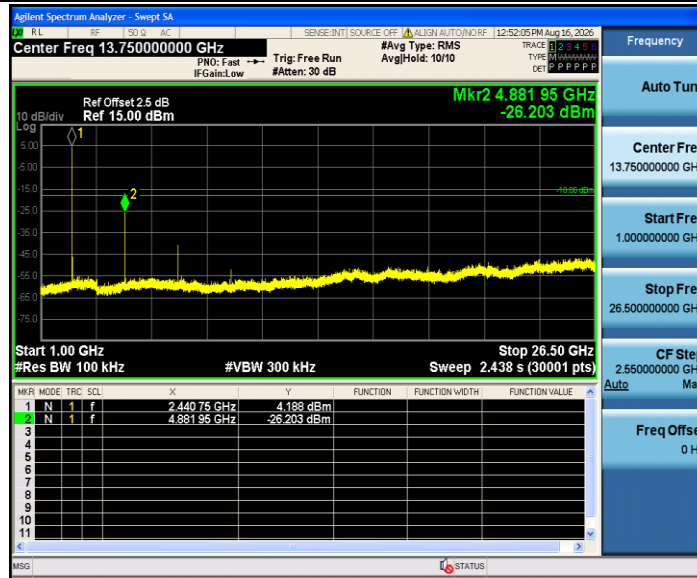
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



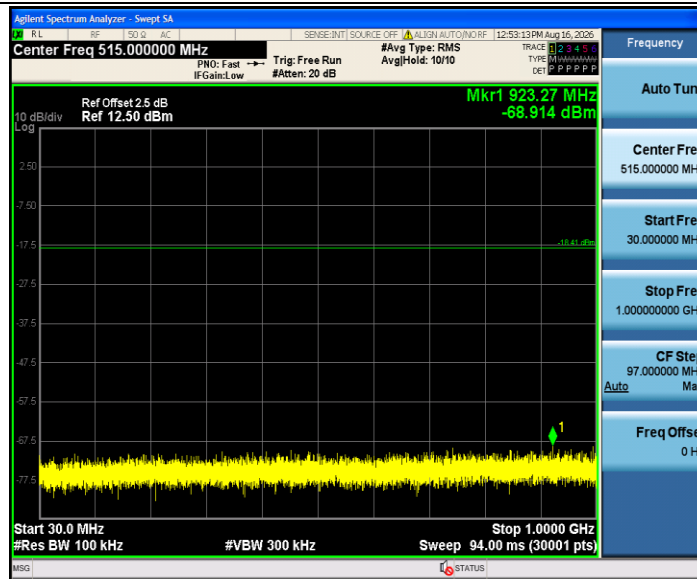
DH5_Ant1_2441_1000~26500



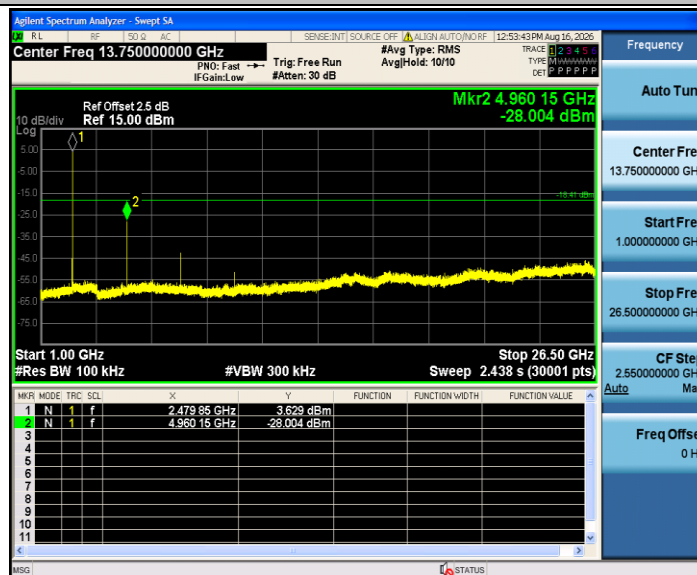
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



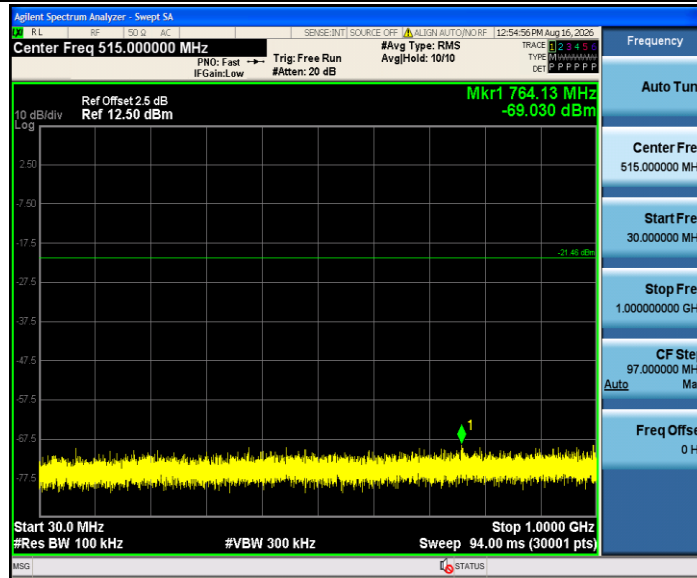
DH5_Ant1_2480_1000~26500



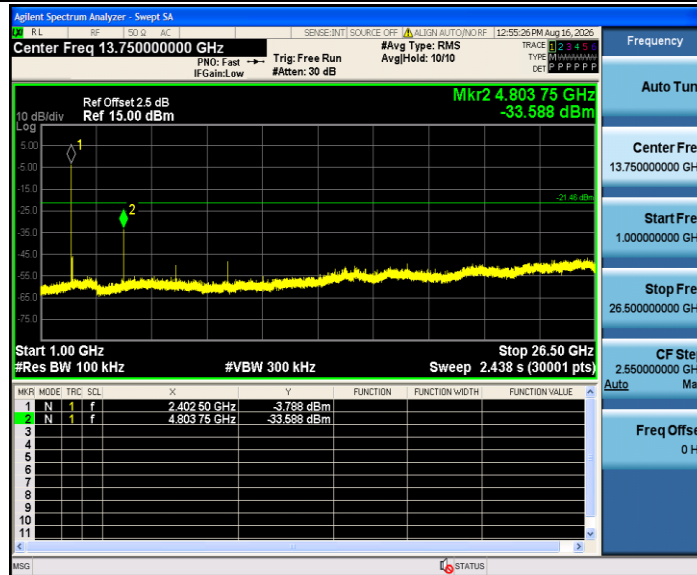
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



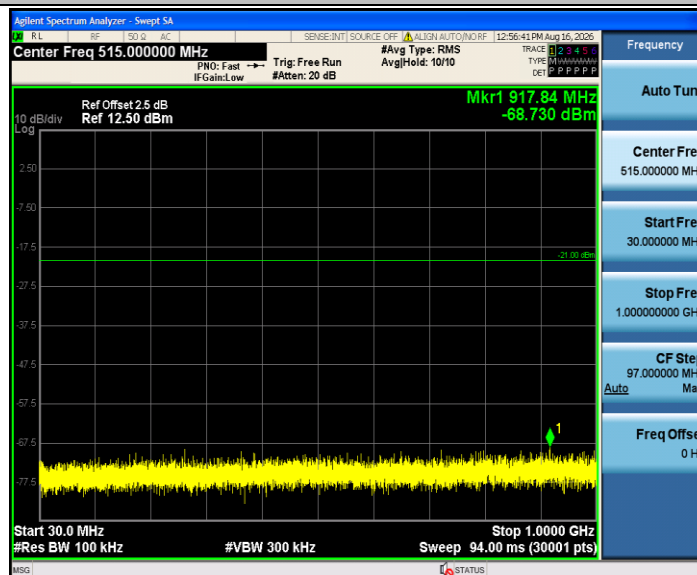
2DH5_Ant1_2402_1000~26500



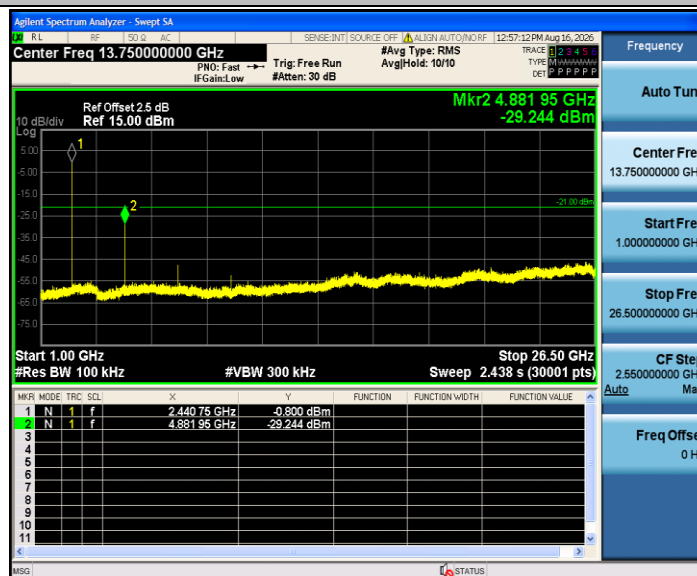
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



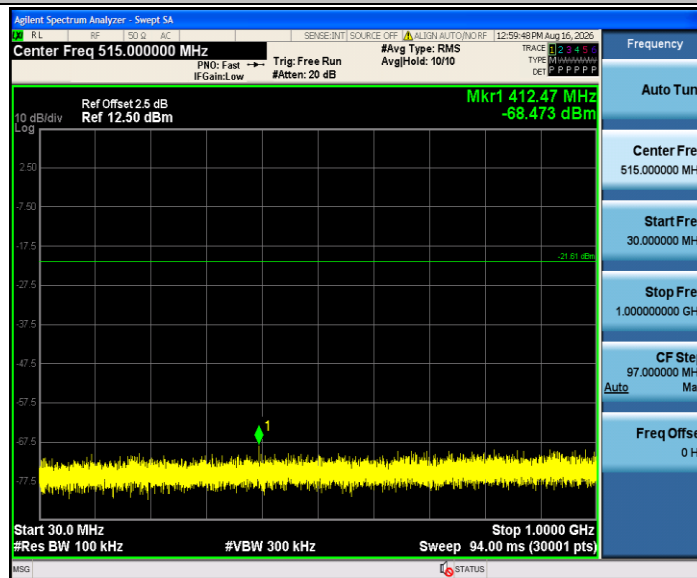
2DH5_Ant1_2441_1000~26500



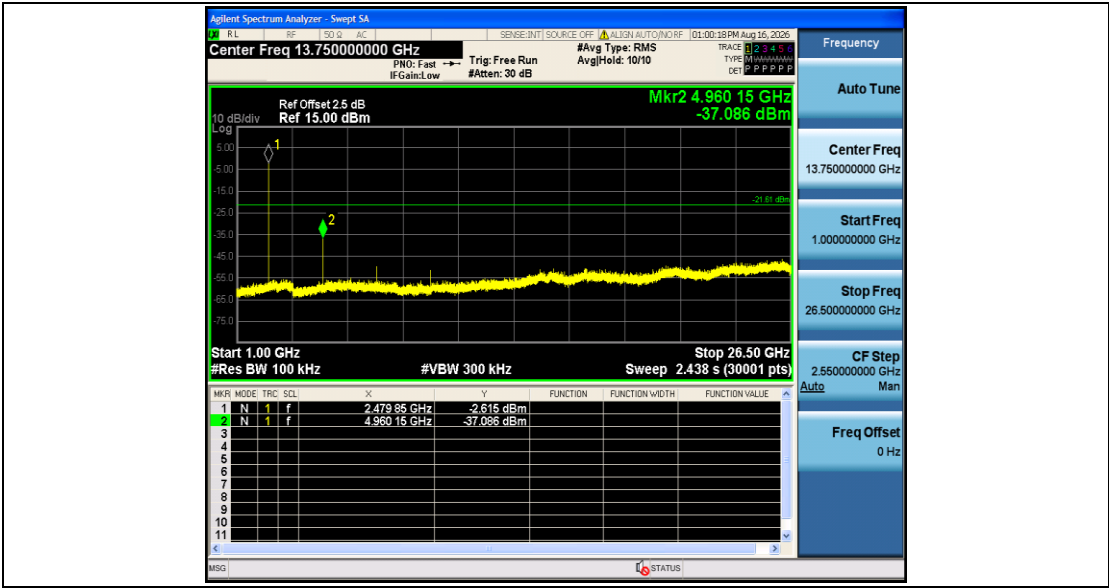
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500



Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.93	3.75	78.13	1.07	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.74	78.07	1.08	---	---