

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.930	2401.481	2402.411	---	---
		2441	0.936	2440.478	2441.414	---	---
		2480	0.930	2479.475	2480.405	---	---
2DH5	Ant1	2402	1.320	2401.271	2402.591	---	---
		2441	1.359	2440.256	2441.615	---	---
		2480	1.308	2479.277	2480.585	---	---
3DH5	Ant1	2402	1.296	2401.292	2402.588	---	---
		2441	1.308	2440.283	2441.591	---	---
		2480	1.287	2479.286	2480.573	---	---

Test Graphs



DH5_Ant1_2441

Spectrum Analyzer 1
Swept SA

KEYSIGHT Input: RF
Coupling: DC
Align: Auto

Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)

#Atten: 30 dB

PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off

#Avg Type: Power (RMS)
Trig: Free Run

1 2 3 4 5 6
M M M M M M
P P P P P P

Center Frequency
2.441000000 GHz

Span
3.00000000 MHz

Swept Span
Zero Span

Full Span

Start Freq
2.438500000 GHz

Stop Freq
2.442500000 GHz

AUTO TUNE

CF Step
300.000 kHz

Auto
Man

Freq Offset
0 Hz

X Axis Scale
Log
Lin

Signal Track
(Span Zoom)

1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 8.82 dB
Ref Level 28.82 dBm
 Δ Mkr3 936 kHz
0.07 dB
0.1 -20.95 dBmCenter 2.441000 GHz
#Res BW 30 kHz
#Video BW 100 kHz
Span 3.000 MHz
Sweep 3.20 ms (1001 pts)

5 Marker Table

Aug 30, 2022
9:49:42 AM

DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



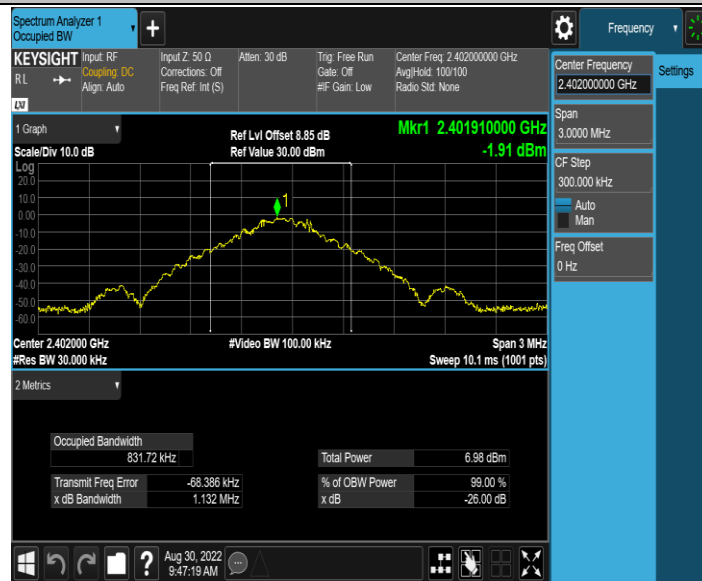
Appendix B: Occupied Channel Bandwidth

Test Result

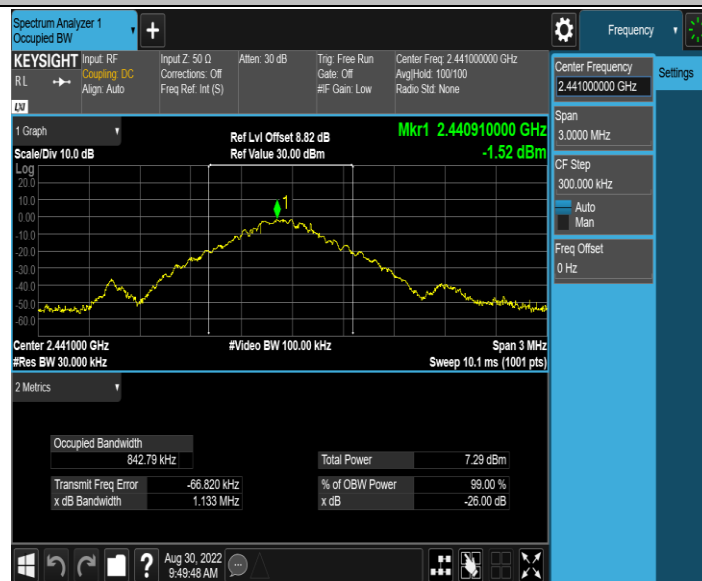
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.83172	2401.51 58	2402.3475	---	---
		2441	0.84279	2440.51 18	2441.3546	---	---
		2480	0.83079	2479.51 42	2480.3450	---	---
2DH5	Ant1	2402	1.1853	2401.34 20	2402.5273	---	---
		2441	1.1822	2440.34 04	2441.5226	---	---
		2480	1.1934	2479.33 54	2480.5288	---	---
3DH5	Ant1	2402	1.1863	2401.34 21	2402.5284	---	---
		2441	1.1878	2440.33 98	2441.5276	---	---
		2480	1.1961	2479.33 10	2480.5271	---	---

Test Graphs

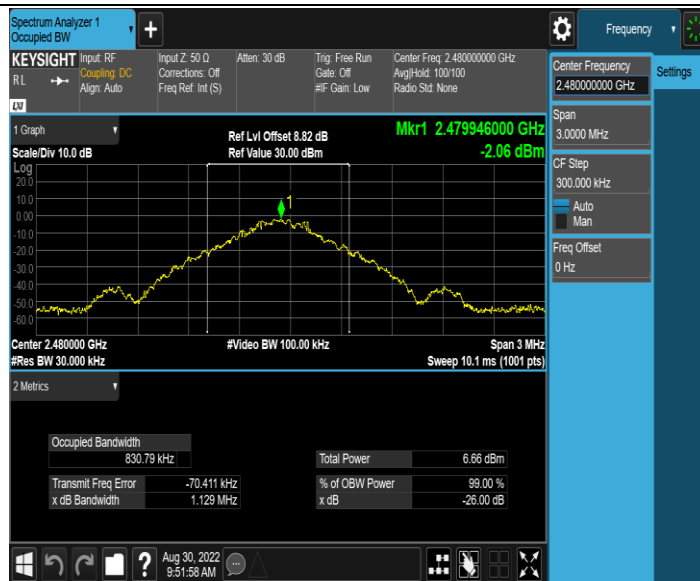
DH5_Ant1_2402



DH5_Ant1_2441



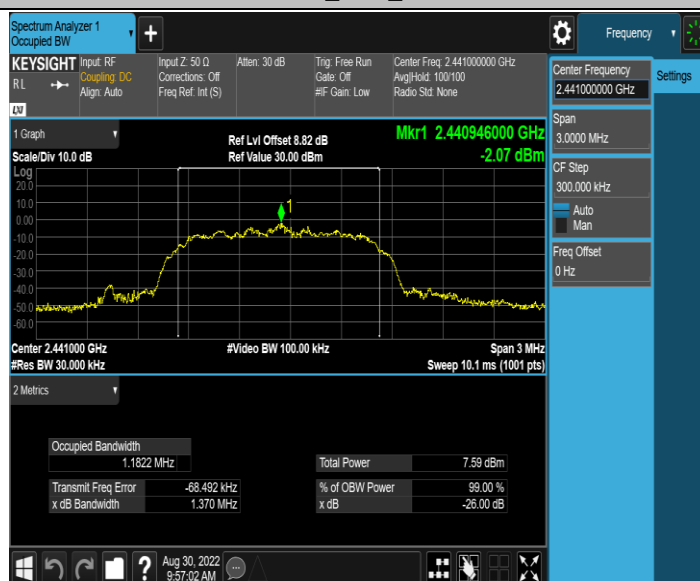
DH5_Ant1_2480



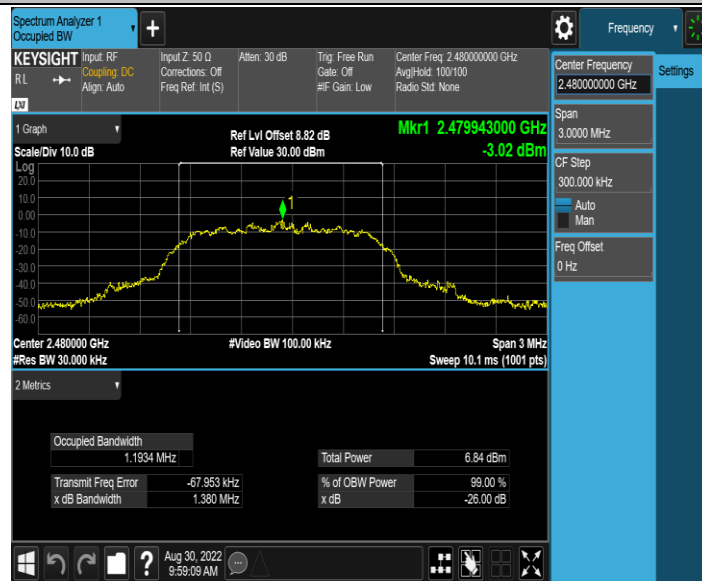
2DH5_Ant1_2402



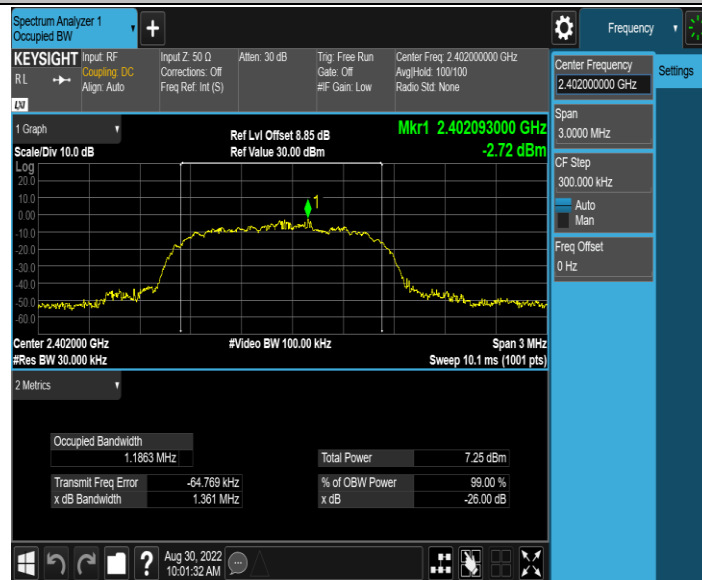
2DH5_Ant1_2441



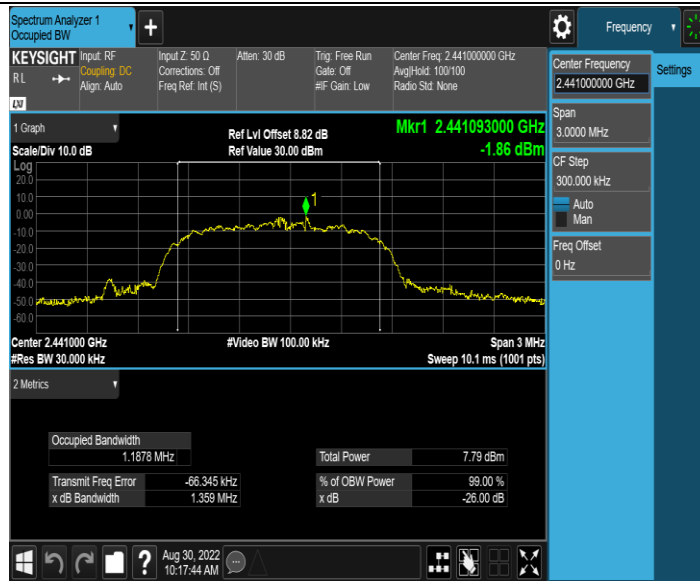
2DH5_Ant1_2480



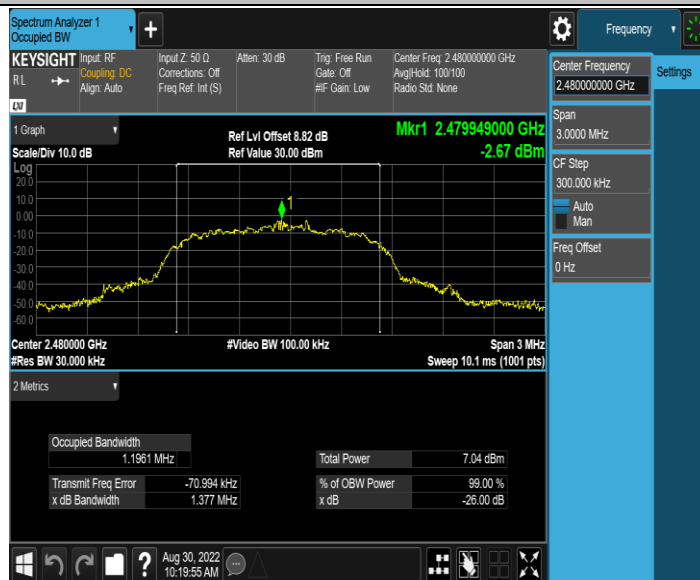
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-1.46	≤20.97	PASS
		2441	-0.86	≤20.97	PASS
		2480	-1.62	≤20.97	PASS
2DH5	Ant1	2402	0.69	≤20.97	PASS
		2441	1.22	≤20.97	PASS
		2480	0.59	≤20.97	PASS
3DH5	Ant1	2402	1.3	≤20.97	PASS
		2441	1.69	≤20.97	PASS
		2480	0.99	≤20.97	PASS

TestMode	Antenna	Channel	E.I.R.P[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.24	≤36	PASS
		2441	0.84	≤36	PASS
		2480	0.08	≤36	PASS
2DH5	Ant1	2402	2.39	≤36	PASS
		2441	2.92	≤36	PASS
		2480	2.29	≤36	PASS
3DH5	Ant1	2402	3	≤36	PASS
		2441	3.39	≤36	PASS
		2480	2.69	≤36	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.18	≥ 0.936	PASS
2DH5	Ant1	Hop	1.004	≥ 0.906	PASS
3DH5	Ant1	Hop	1.16	≥ 0.872	PASS

Test Graphs





Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.86	106.67	0.305	≤0.4	PASS
2DH5	Ant1	Hop	2.87	106.67	0.306	≤0.4	PASS
3DH5	Ant1	Hop	2.87	106.67	0.306	≤0.4	PASS

Test Graphs



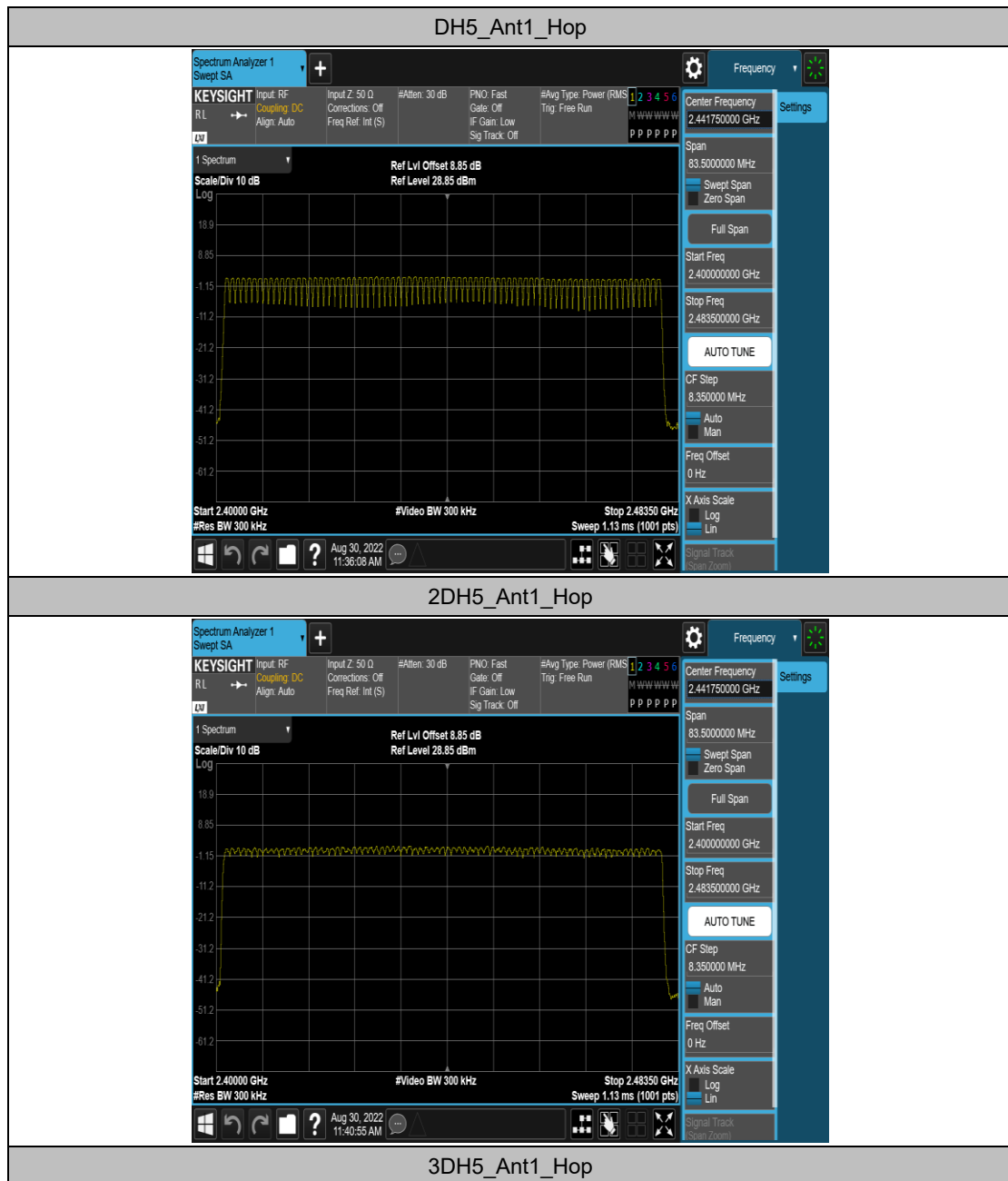


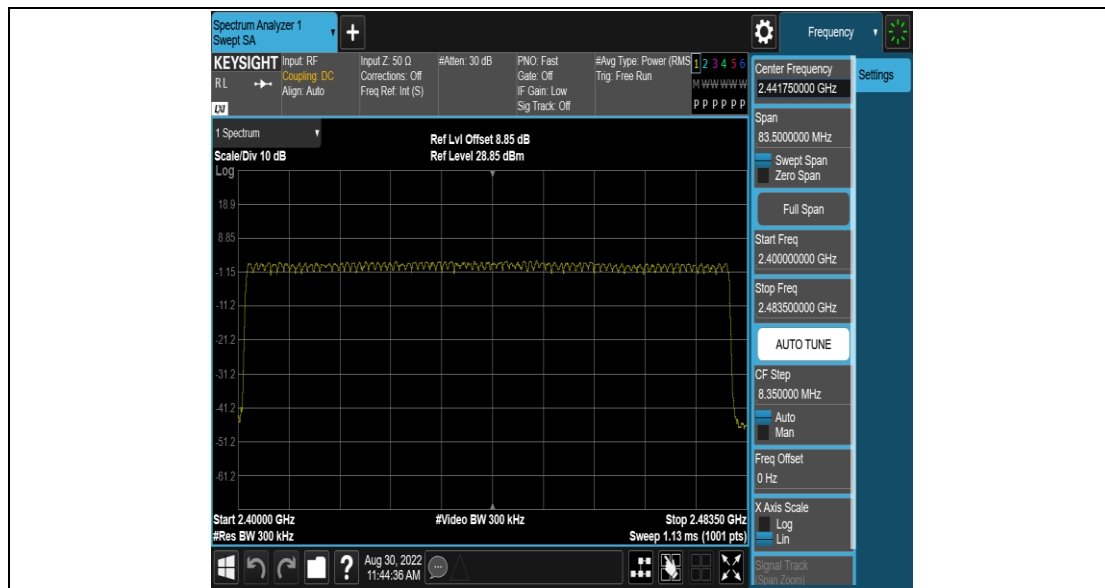
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Channel	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





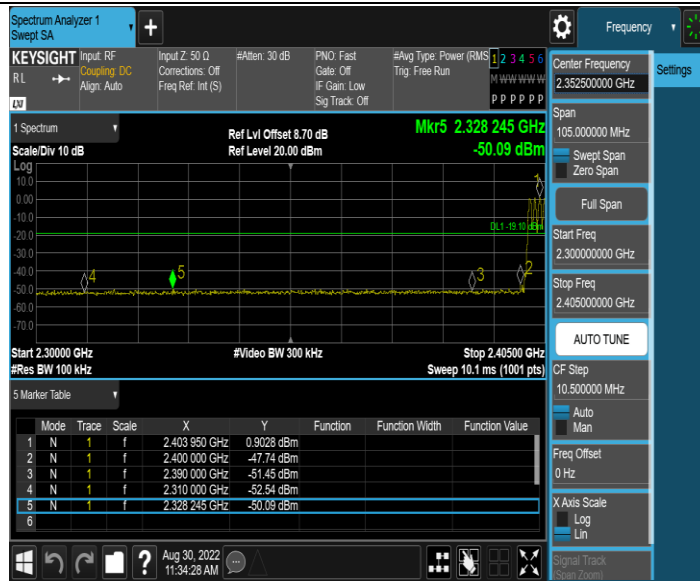
Appendix G: Band edge measurements

Test Result

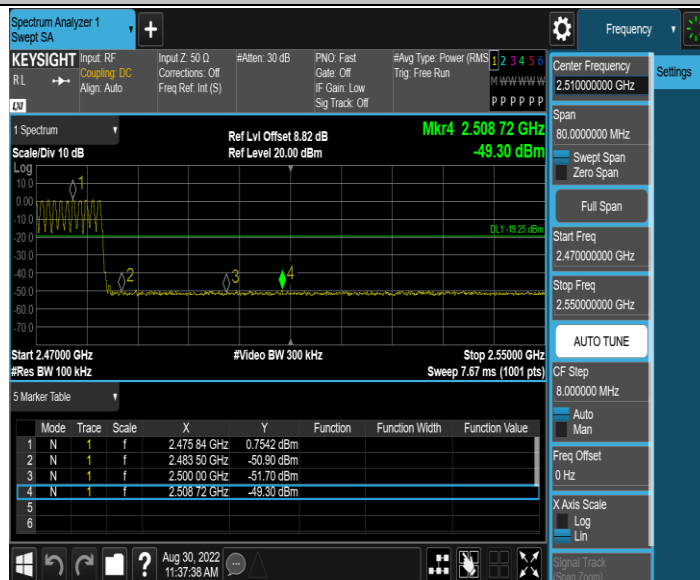
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.32	-49.09	≤-21.32	PASS
		High	2480	-1.84	-49.29	≤-21.84	PASS
		Low	Hop_2402	0.90	-50.09	≤-19.1	PASS
		High	Hop_2480	0.75	-49.3	≤-19.25	PASS
2DH5	Ant1	Low	2402	-1.34	-47.57	≤-21.34	PASS
		High	2480	-0.67	-50.05	≤-20.67	PASS
		Low	Hop_2402	1.42	-49.43	≤-18.58	PASS
		High	Hop_2480	0.73	-48.05	≤-19.27	PASS
3DH5	Ant1	Low	2402	1.22	-47.88	≤-18.78	PASS
		High	2480	1.03	-49.63	≤-18.97	PASS
		Low	Hop_2402	-0.87	-49.75	≤-20.87	PASS
		High	Hop_2480	-0.47	-48.82	≤-20.47	PASS

Test Graphs

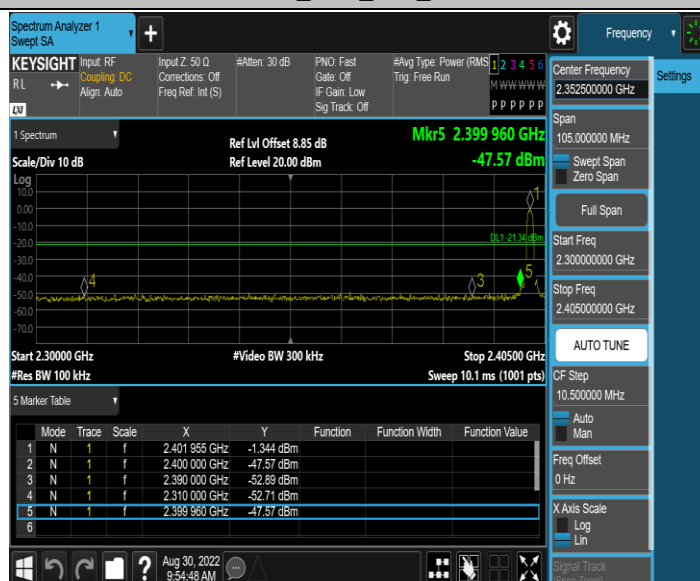




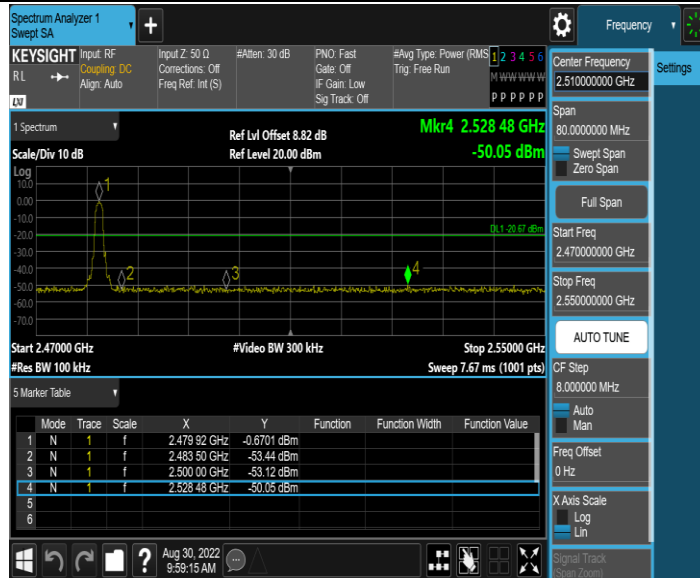
DH5_Ant1_High_Hop_2480



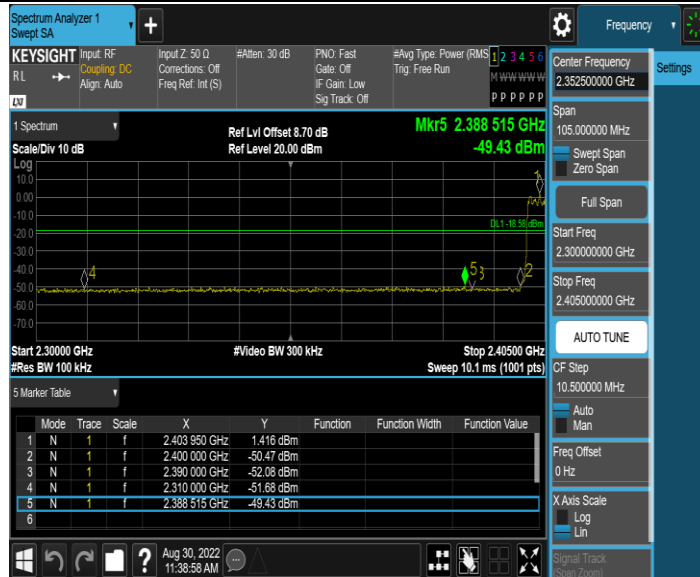
2DH5_Ant1_Low_2402



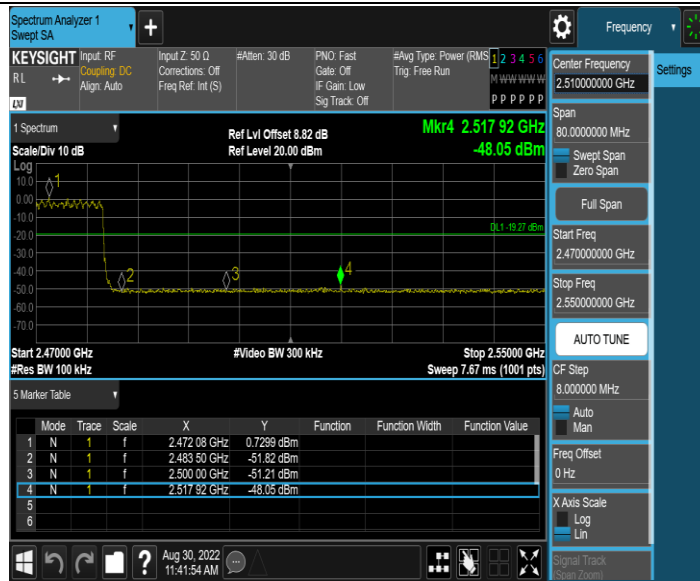
2DH5_Ant1_High_2480



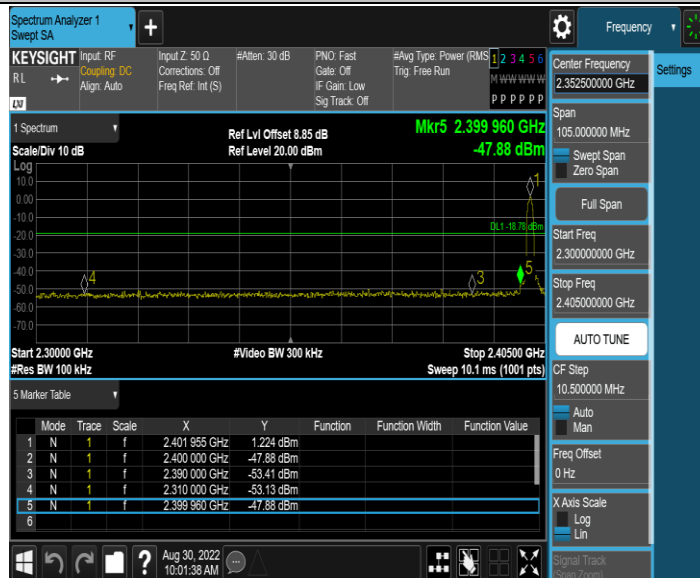
2DH5_Ant1_Low_Hop_2402



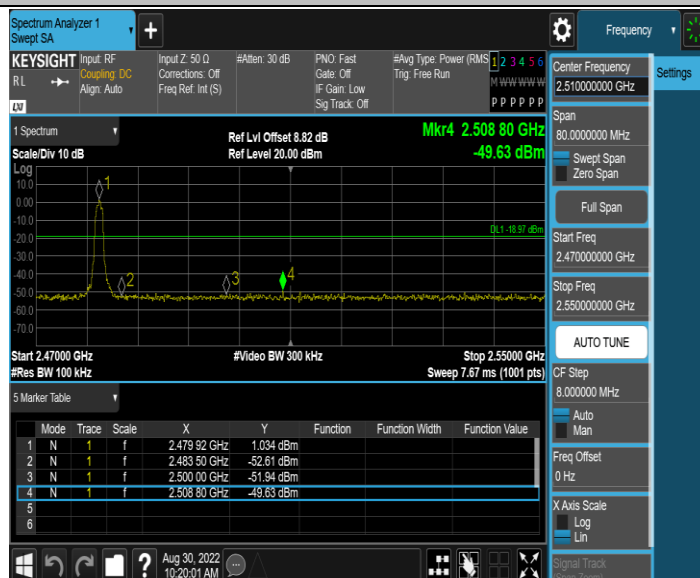
2DH5_Ant1_High_Hop_2480



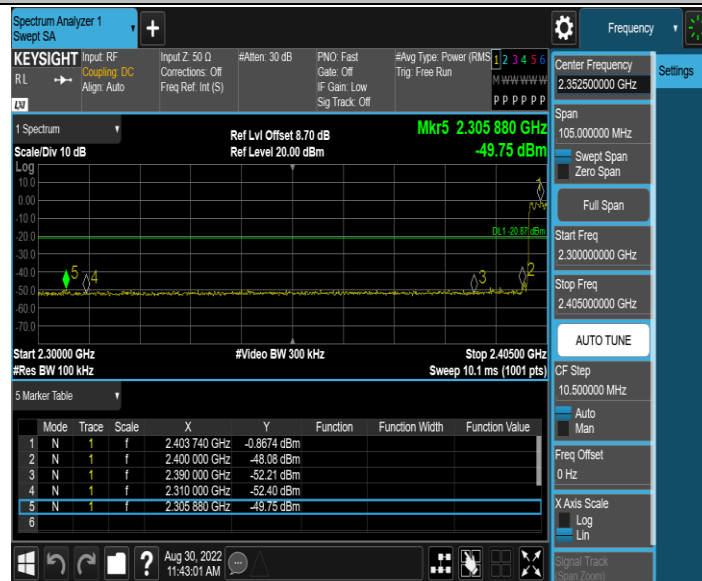
3DH5_Ant1_Low_2402



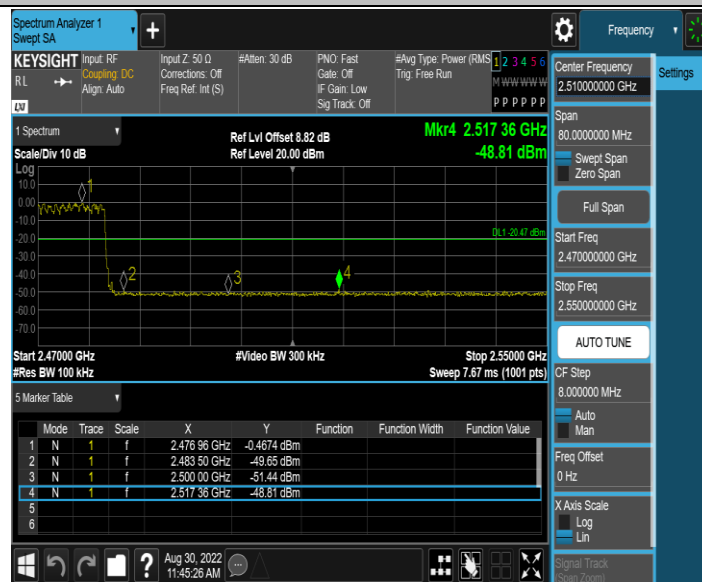
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

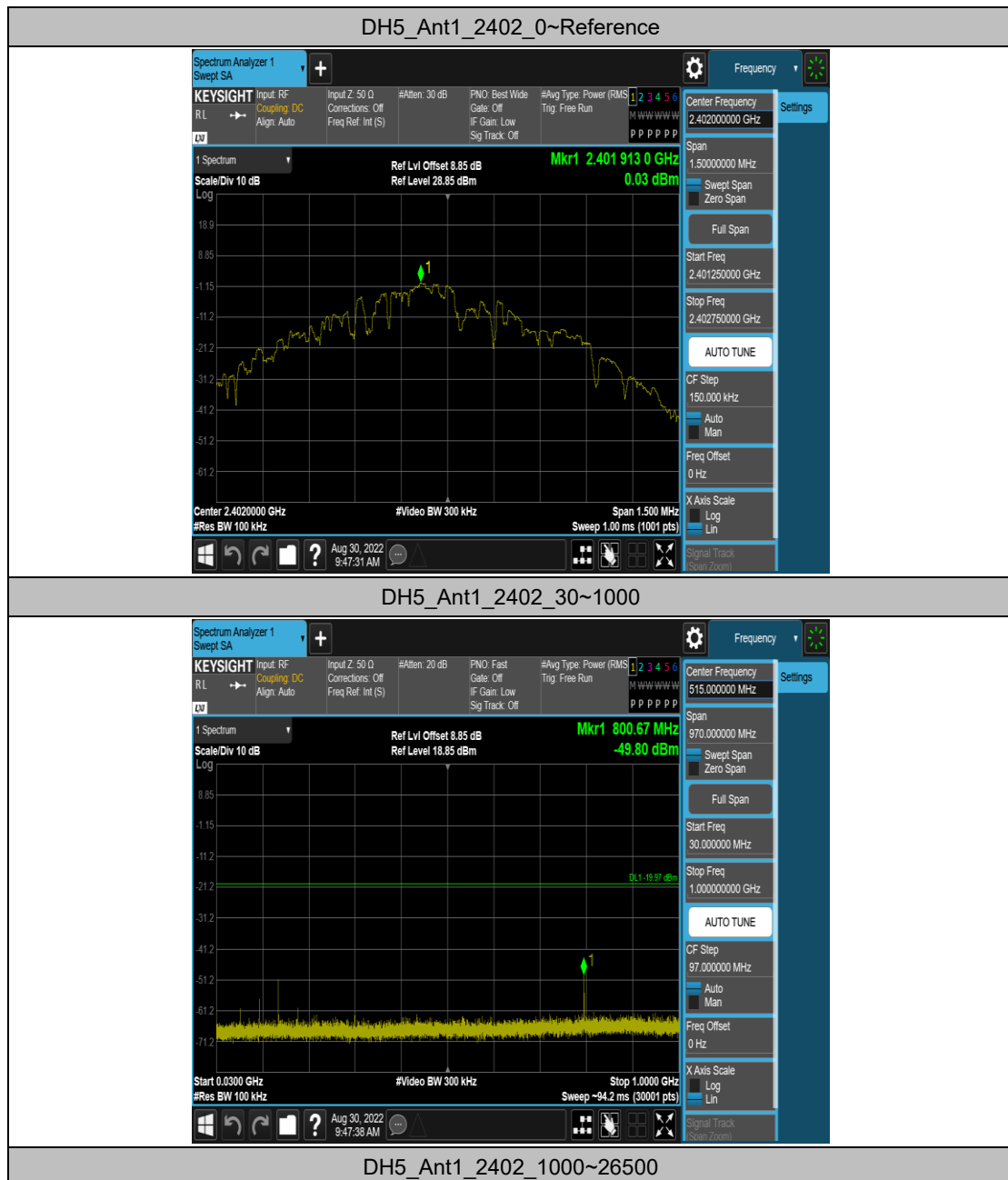


Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.03	0.03	---	PASS
			30~1000	0.03	-49.8	≤-19.97	PASS
			1000~26500	0.03	-53.59	≤-19.97	PASS
		2441	Reference	0.85	0.85	---	PASS
			30~1000	0.85	-49.69	≤-19.15	PASS
			1000~26500	0.85	-53.42	≤-19.15	PASS
		2480	Reference	-0.10	-0.10	---	PASS
			30~1000	-0.10	-49.26	≤-20.1	PASS
			1000~26500	-0.10	-53.1	≤-20.1	PASS
2DH5	Ant1	2402	Reference	-0.69	-0.69	---	PASS
			30~1000	-0.69	-50.75	≤-20.69	PASS
			1000~26500	-0.69	-52.75	≤-20.69	PASS
		2441	Reference	-0.95	-0.95	---	PASS
			30~1000	-0.95	-49.76	≤-20.95	PASS
			1000~26500	-0.95	-52.64	≤-20.95	PASS
		2480	Reference	-1.63	-1.63	---	PASS
			30~1000	-1.63	-50.12	≤-21.63	PASS
			1000~26500	-1.63	-52.96	≤-21.63	PASS
3DH5	Ant1	2402	Reference	-3.82	-3.82	---	PASS
			30~1000	-3.82	-50.89	≤-23.82	PASS
			1000~26500	-3.82	-52.91	≤-23.82	PASS
		2441	Reference	0.37	0.37	---	PASS
			30~1000	0.37	-51.21	≤-19.63	PASS
			1000~26500	0.37	-52.78	≤-19.63	PASS
		2480	Reference	-1.72	-1.72	---	PASS
			30~1000	-1.72	-50.69	≤-21.72	PASS
			1000~26500	-1.72	-53.01	≤-21.72	PASS

Test Graphs





DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

