FCC Appendix RF Test Data for BT

FCC ID	**:**	**2AHZ5G1**
Company	**:**	**Shenzhen Huafurui Technology Co., Ltd.**
EUT	**:**	**Smartwatch**
Model Number	**:**	**G1**
Report No.	**:**	**CTA26100800401**
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	0.951	2401.550	2402.501	---	---
		2441	0.945	2440.550	2441.495	---	---
		2480	0.927	2479.550	2480.477	---	---
2DH5	Ant1	2402	1.308	2401.361	2402.669	---	---
		2441	1.308	2440.355	2441.663	---	---
		2480	1.272	2479.388	2480.660	---	---
3DH5	Ant1	2402	1.287	2401.373	2402.660	---	---
		2441	1.320	2440.355	2441.675	---	---
		2480	1.275	2479.370	2480.645	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



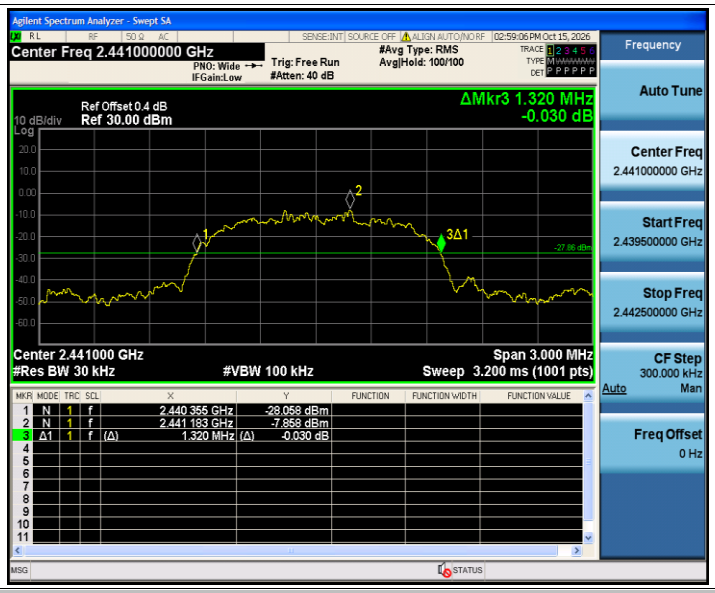
2DH5_Ant1_2441



2DH5_Ant1_2480

3DH5_Ant1_2402

3DH5_Ant1_2441



3DH5_Ant1_2480



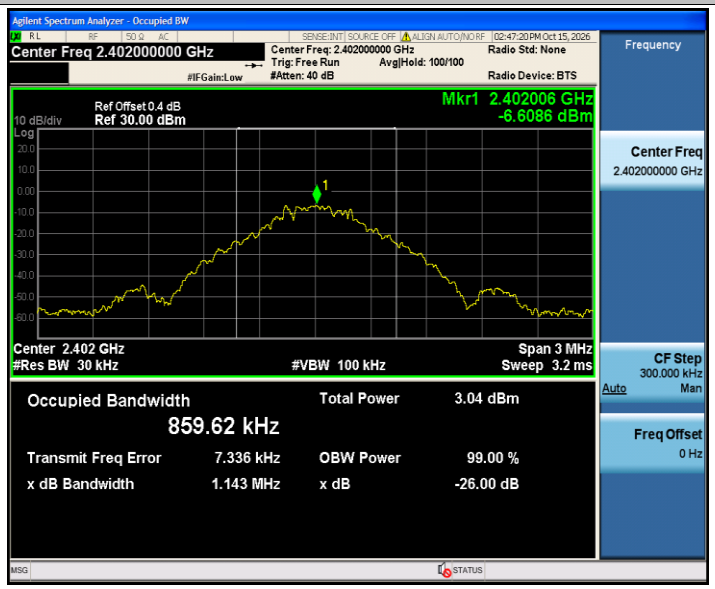
Appendix B: Occupied Channel Bandwidth

Test Result

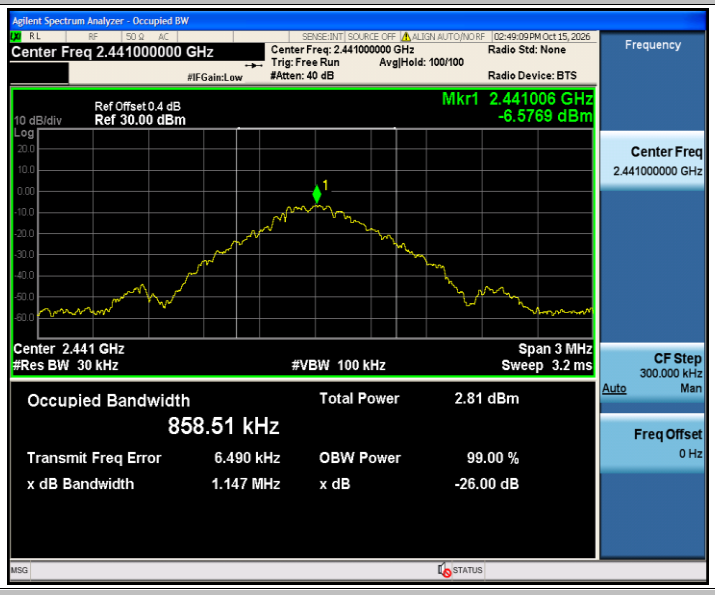
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85962	2401.5775	2402.4372	---	---
		2441	0.85851	2440.5772	2441.4357	---	---
		2480	0.87132	2479.5784	2480.4497	---	---
2DH5	Ant1	2402	1.1952	2401.4138	2402.6090	---	---
		2441	1.1809	2440.4208	2441.6017	---	---
		2480	1.1924	2479.4142	2480.6066	---	---
3DH5	Ant1	2402	1.1836	2401.4192	2402.6028	---	---
		2441	1.1897	2440.4168	2441.6065	---	---
		2480	1.1869	2479.4204	2480.6073	---	---

Test Graphs

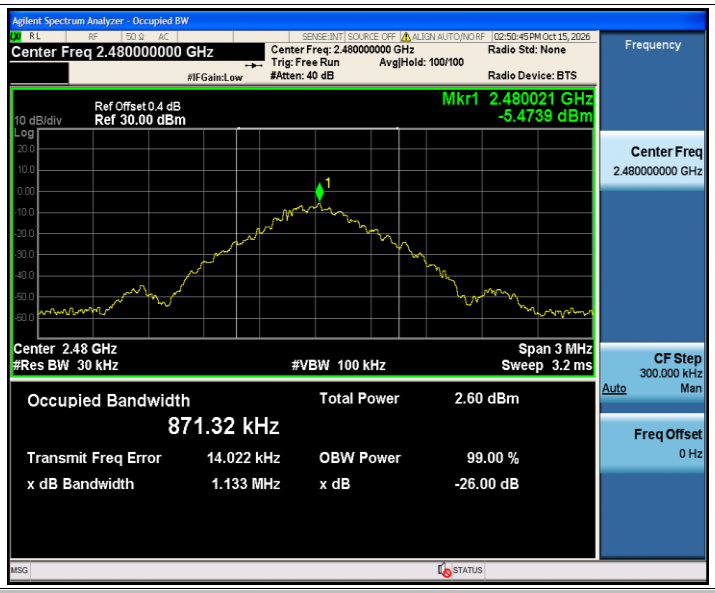
DH5_Ant1_2402



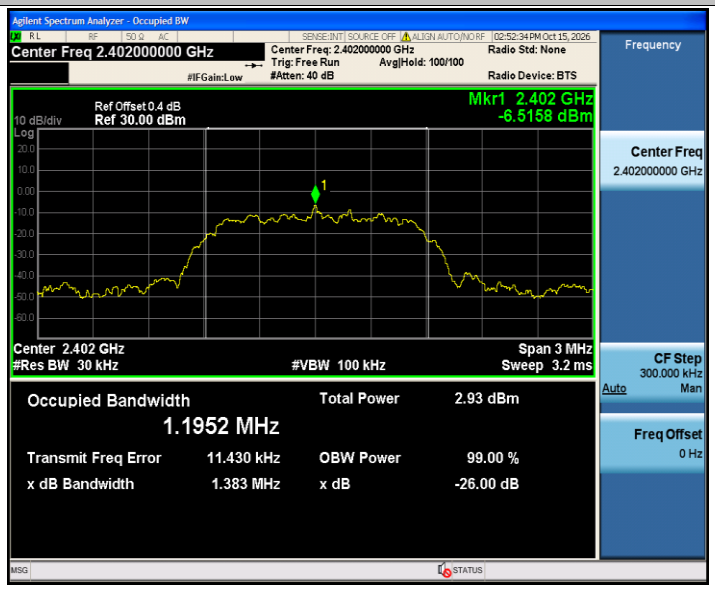
DH5_Ant1_2441



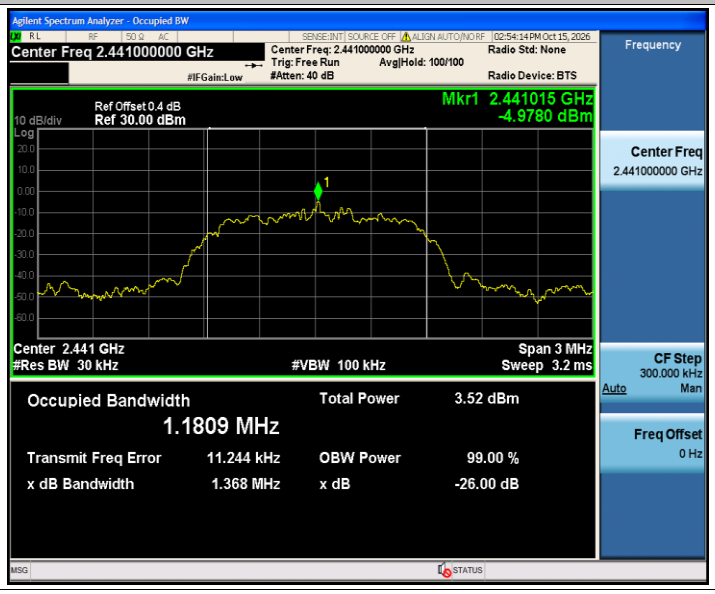
DH5_Ant1_2480

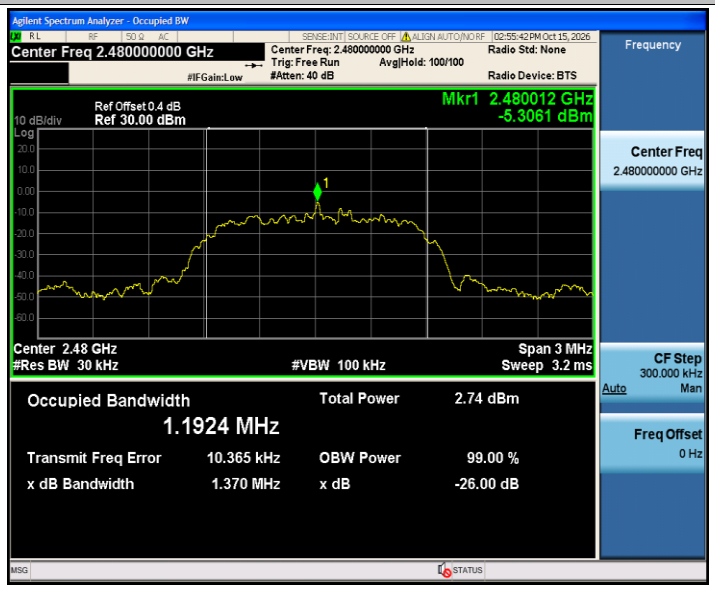
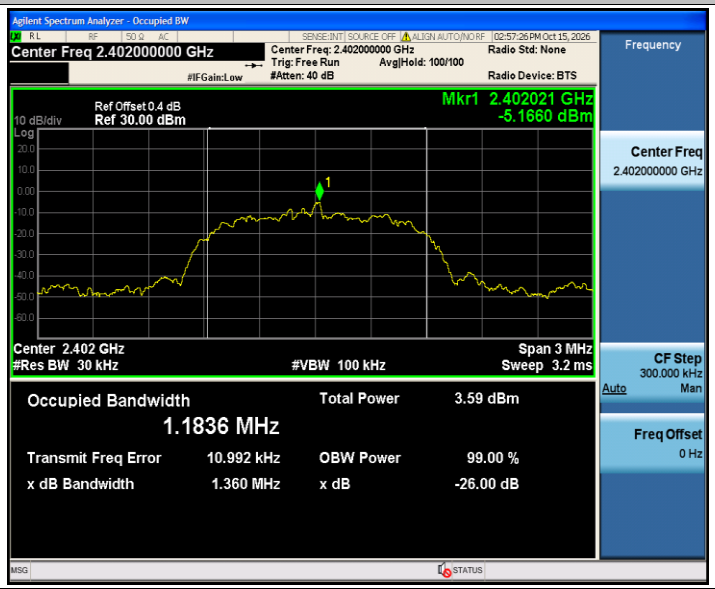


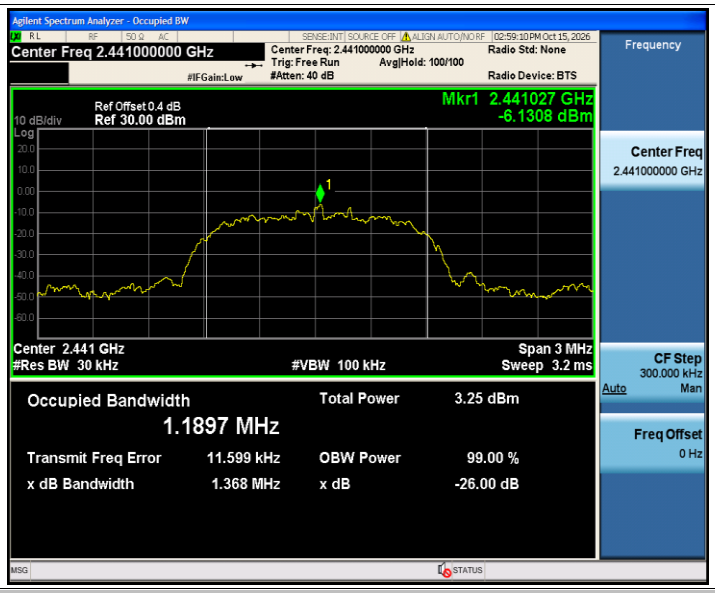
2DH5_Ant1_2402



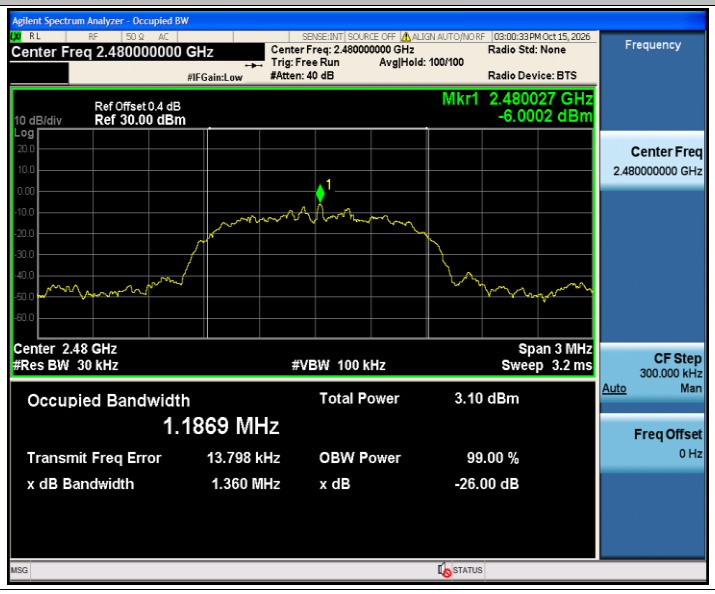
2DH5_Ant1_2441



2DH5_Ant1_2480

3DH5_Ant1_2402

3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Freq(MHz)	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.32	≤20.97	PASS
		2441	-3.43	≤20.97	PASS
		2480	-3.74	≤20.97	PASS
2DH5	Ant1	2402	-0.70	≤20.97	PASS
		2441	-0.83	≤20.97	PASS
		2480	-1.14	≤20.97	PASS
3DH5	Ant1	2402	-0.30	≤20.97	PASS
		2441	-0.51	≤20.97	PASS
		2480	-0.75	≤20.97	PASS

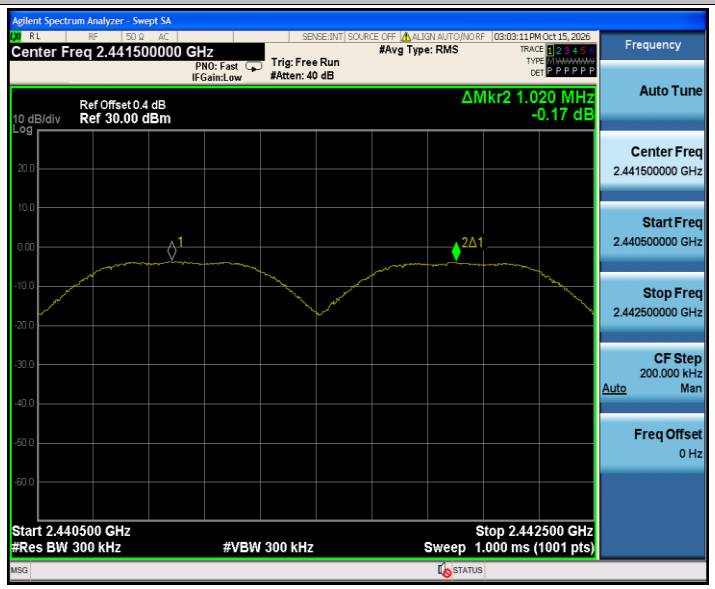
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.02	≥0.951	PASS
2DH5	Ant1	Hop	0.984	≥0.872	PASS
3DH5	Ant1	Hop	1.018	≥0.880	PASS

Test Graphs

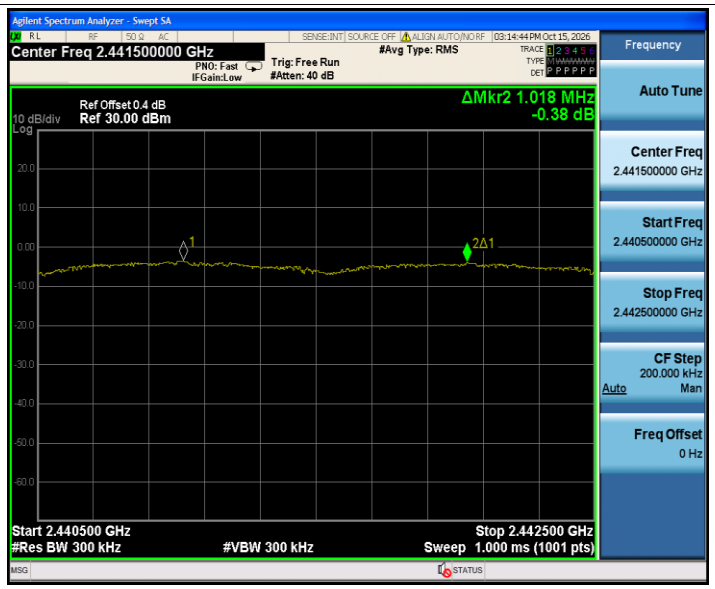
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

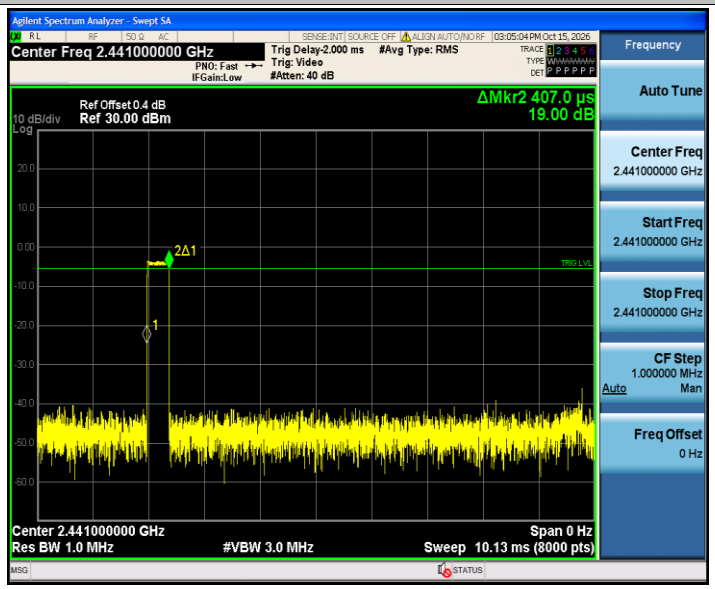
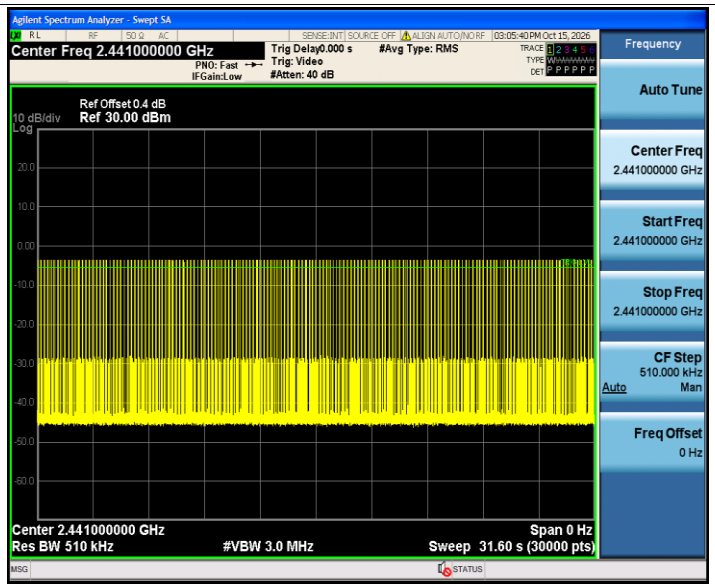

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441500000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
#Avg Type: RMS
03:14:44 PM Oct 15, 2026
Ref Offset 0.4 dB
10 dB/div
Log
Ref 30.00 dBm
ΔMkr2 1.018 MHz
-0.38 dB
Start 2.440500 GHz
#Res BW 300 kHz
#VBW 300 kHz
Stop 2.442500 GHz
Sweep 1.000 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.441500000 GHz
Start Freq
2.440500000 GHz
Stop Freq
2.442500000 GHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz

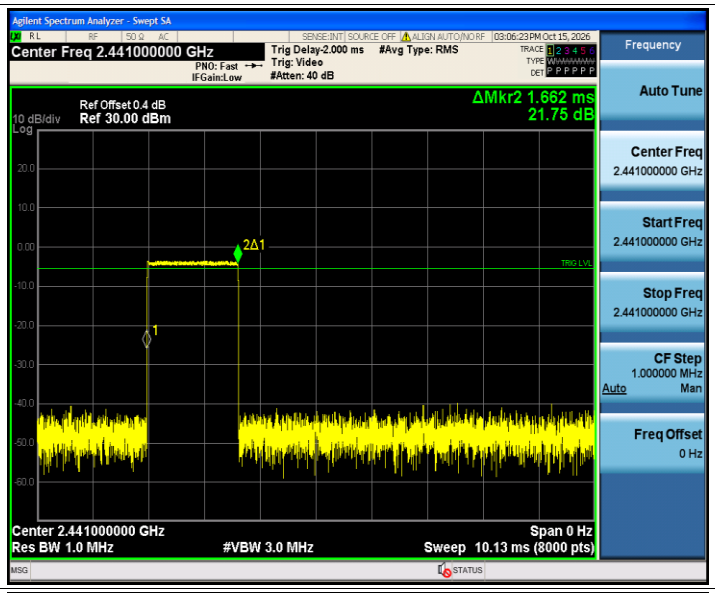
Appendix E: Time of occupancy

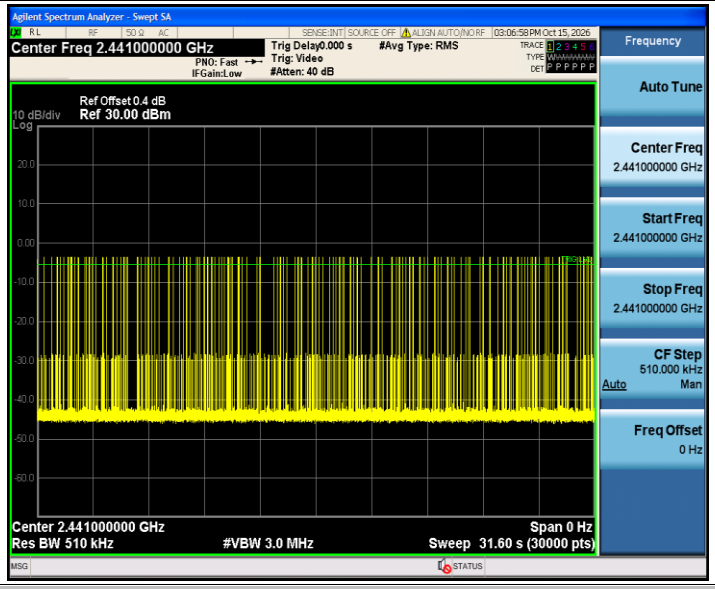
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	316	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.662	165	0.274	≤0.4	PASS
DH5	Ant1	Hop	2.910	106	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.415	319	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	162	0.27	≤0.4	PASS
2DH5	Ant1	Hop	2.916	106	0.309	≤0.4	PASS
3DH1	Ant1	Hop	0.415	319	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.664	158	0.263	≤0.4	PASS
3DH5	Ant1	Hop	2.916	108	0.315	≤0.4	PASS

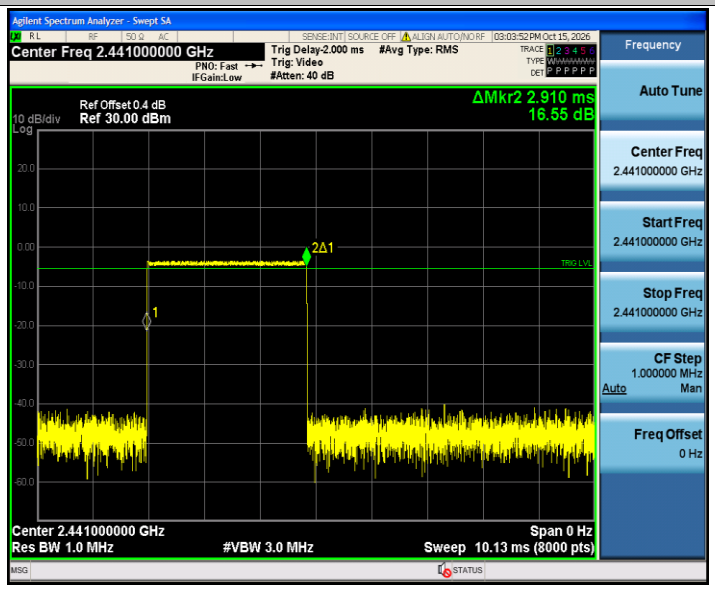
Test Graphs

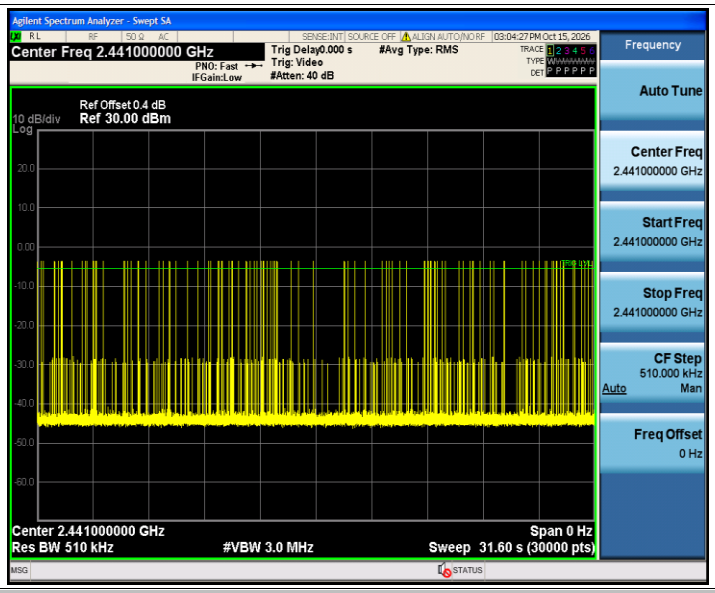
DH1_Ant1_Hop


DH3_Ant1_Hop


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441000000 GHz
PNO: Fast
IFGain:Low
Trig Delay-2.000 ms
Trig: Video
#Avg Type: RMS
#Atten: 40 dB
03:06:23 PM Oct 15, 2026
Ref Offset 0.4 dB
10 dB/div
Ref 30.00 dBm
ΔMkr2 1.662 ms
21.75 dB
2Δ1
1
Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz
Span 0 Hz
Sweep 10.13 ms (8000 pts)
Frequency
Auto Tune
Center Freq
2.441000000 GHz
Start Freq
2.441000000 GHz
Stop Freq
2.441000000 GHz
CF Step
1.000000 MHz
Auto
Man
Freq Offset
0 Hz

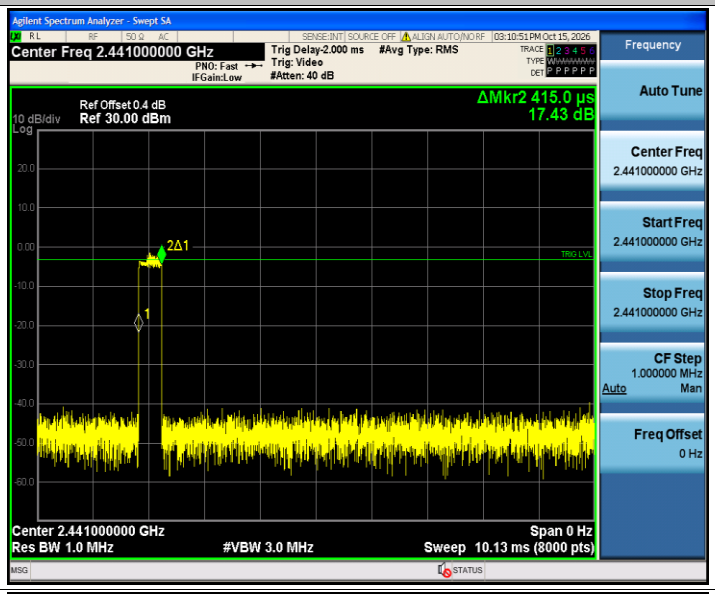

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441000000 GHz
PNO: Fast
IFGain:Low
Trig Delay0.000 s
Trig: Video
#Avg Type: RMS
#Atten: 40 dB
03:06:58 PM Oct 15, 2026
Ref Offset 0.4 dB
10 dB/div
Ref 30.00 dBm
Center 2.441000000 GHz
Res BW 510 kHz
#VBW 3.0 MHz
Span 0 Hz
Sweep 31.60 s (30000 pts)
Frequency
Auto Tune
Center Freq
2.441000000 GHz
Start Freq
2.441000000 GHz
Stop Freq
2.441000000 GHz
CF Step
510.000 kHz
Auto
Man
Freq Offset
0 Hz

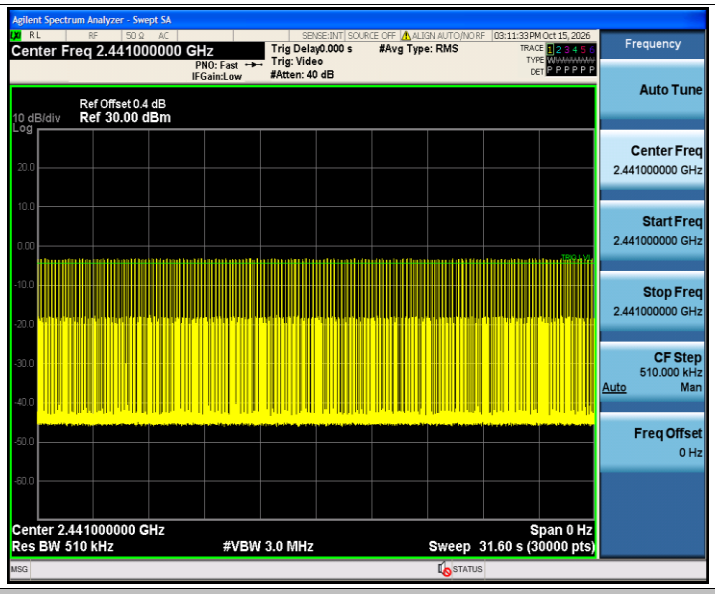
DH5_Ant1_Hop


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441000000 GHz
PNO: Fast
IFGain:Low
Trig Delay-2.000 ms
Trig: Video
#Avg Type: RMS
#Atten: 40 dB
03:03:52 PM Oct 15, 2026
Ref Offset 0.4 dB
10 dB/div
Ref 30.00 dBm
ΔMkr2 2.910 ms
16.55 dB
2Δ1
1
Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz
Span 0 Hz
Sweep 10.13 ms (8000 pts)
Frequency
Auto Tune
Center Freq
2.441000000 GHz
Start Freq
2.441000000 GHz
Stop Freq
2.441000000 GHz
CF Step
1.000000 MHz
Auto
Man
Freq Offset
0 Hz

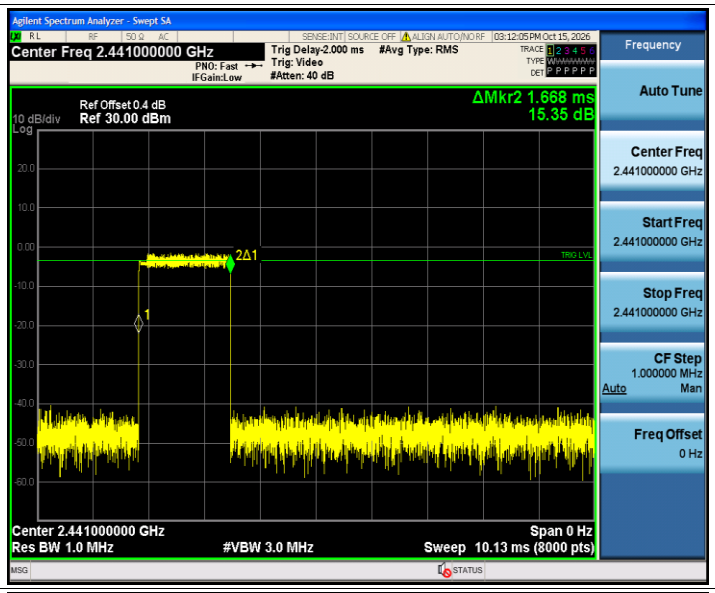


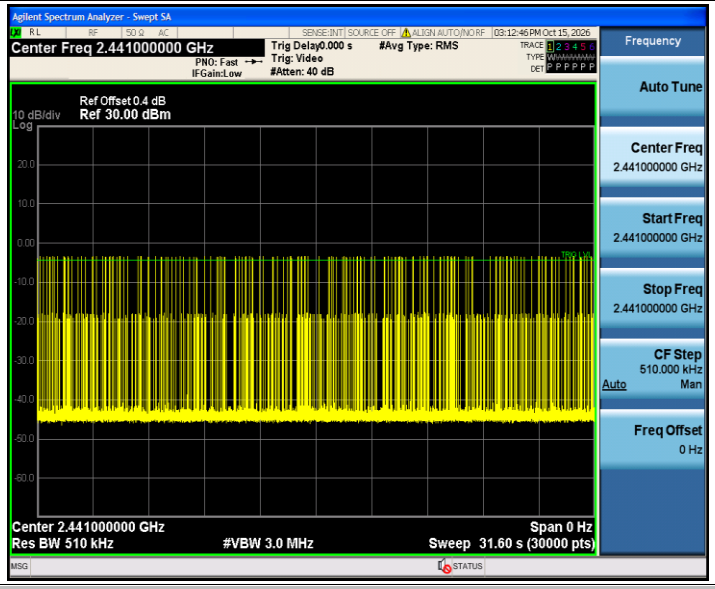
2DH1_Ant1_Hop



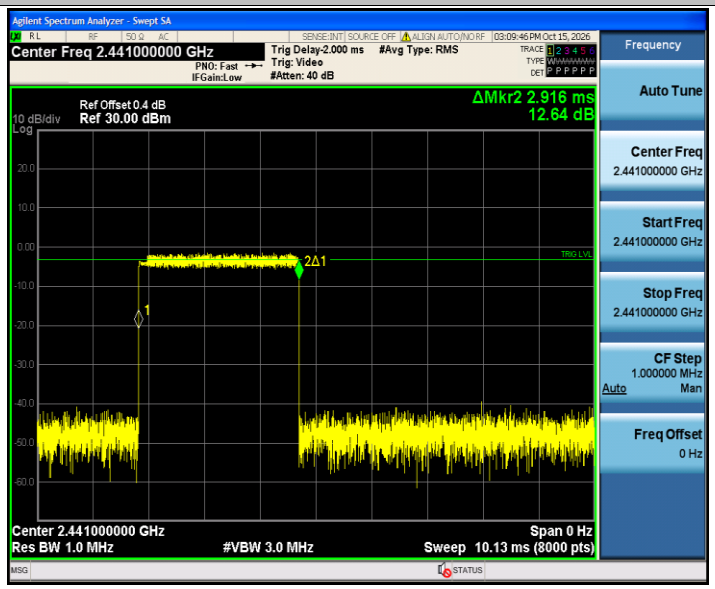


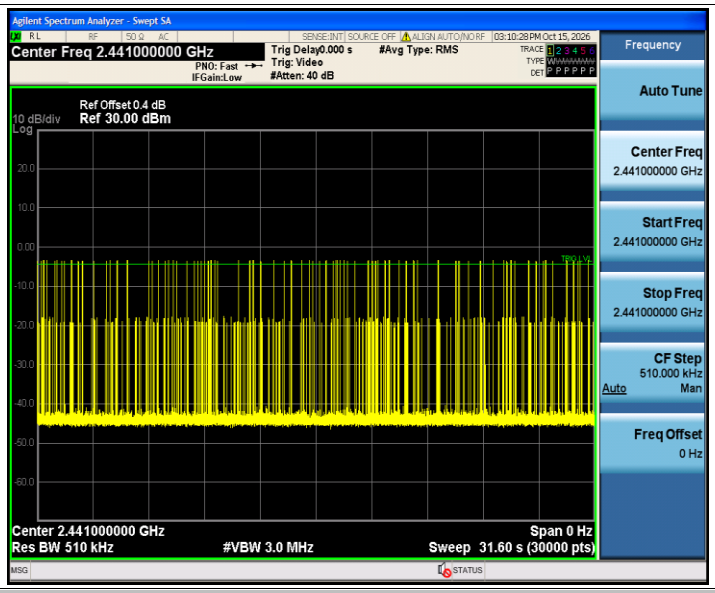
2DH3_Ant1_Hop



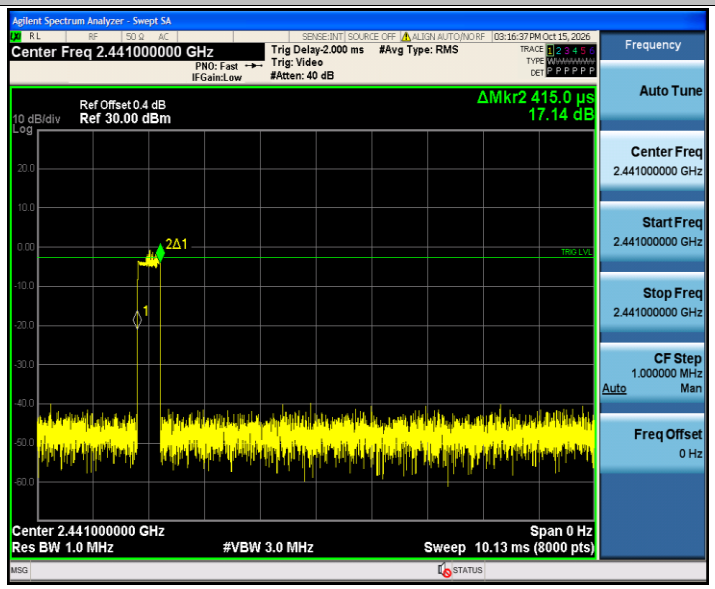


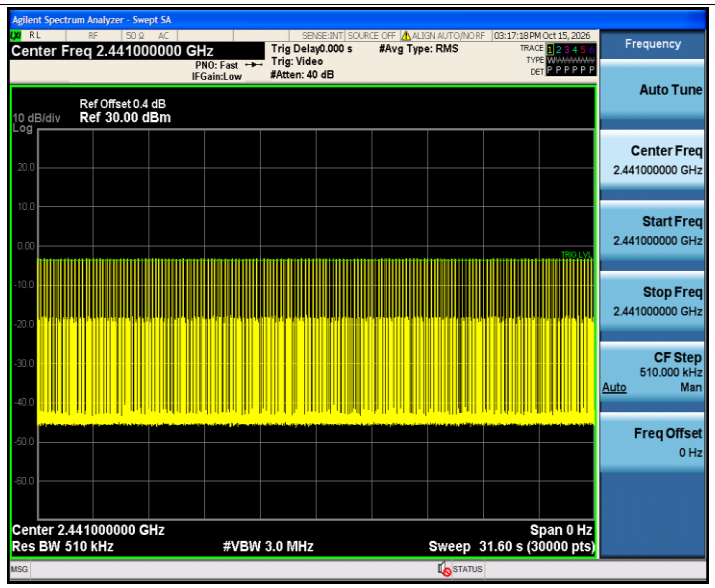
2DH5_Ant1_Hop



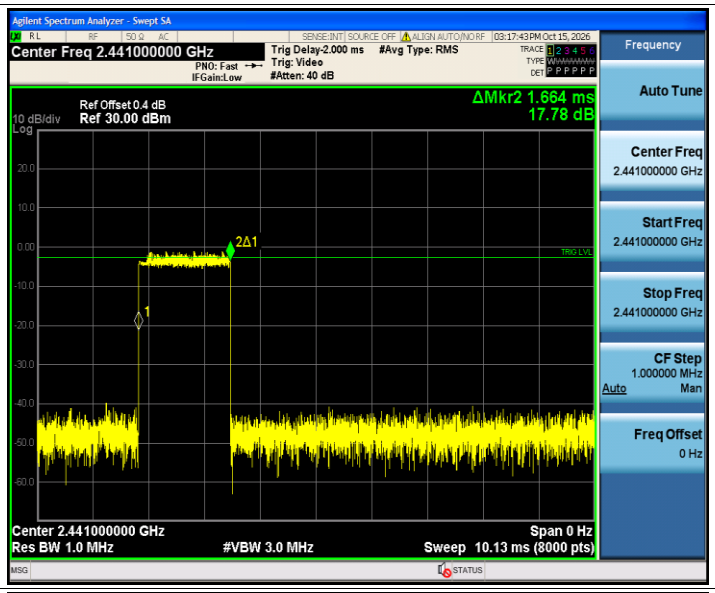


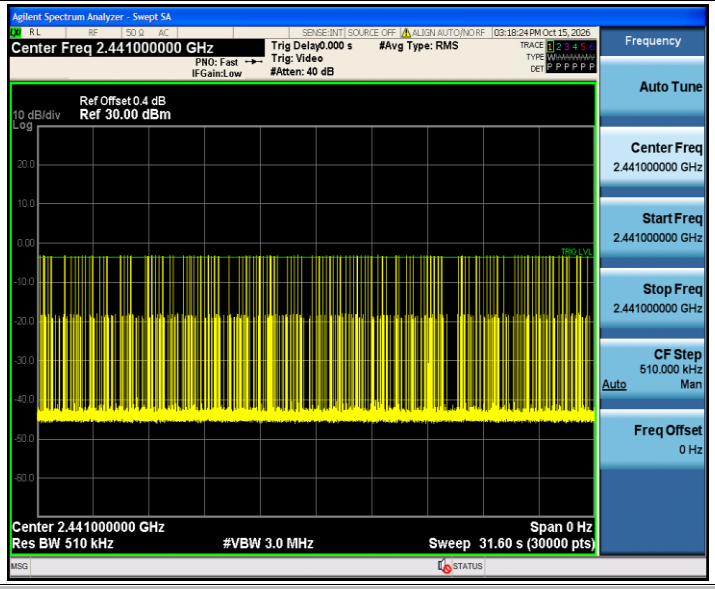
3DH1_Ant1_Hop



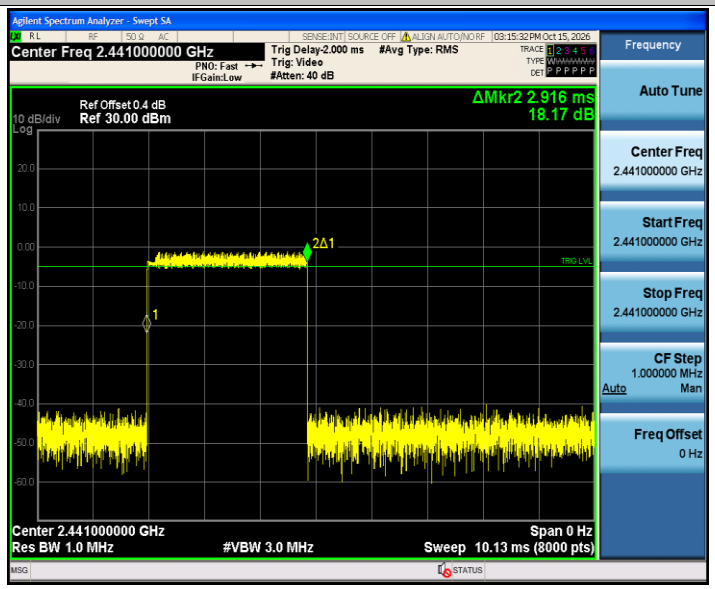


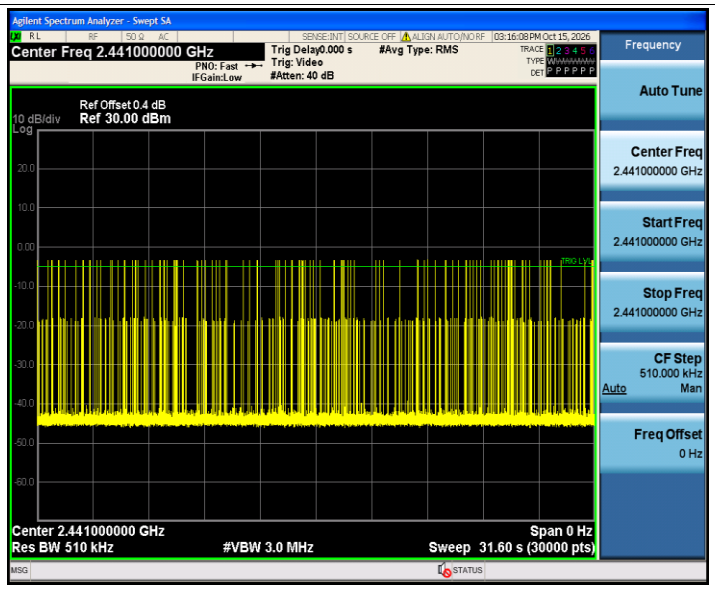
3DH3_Ant1_Hop





3DH5_Ant1_Hop




Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441000000 GHz
PNO: Fast
IFGain:Low
Trig Delay 0.000 s
Trig: Video
#Avg Type: RMS
#Atten: 40 dB
03:16:08 PM Oct 15, 2026
Ref Offset 0.4 dB
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.441000000 GHz
Res BW 510 kHz
#VBW 3.0 MHz
Span 0 Hz
Sweep 31.60 s (30000 pts)
Frequency
Auto Tune
Center Freq
2.441000000 GHz
Start Freq
2.441000000 GHz
Stop Freq
2.441000000 GHz
CF Step
510.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

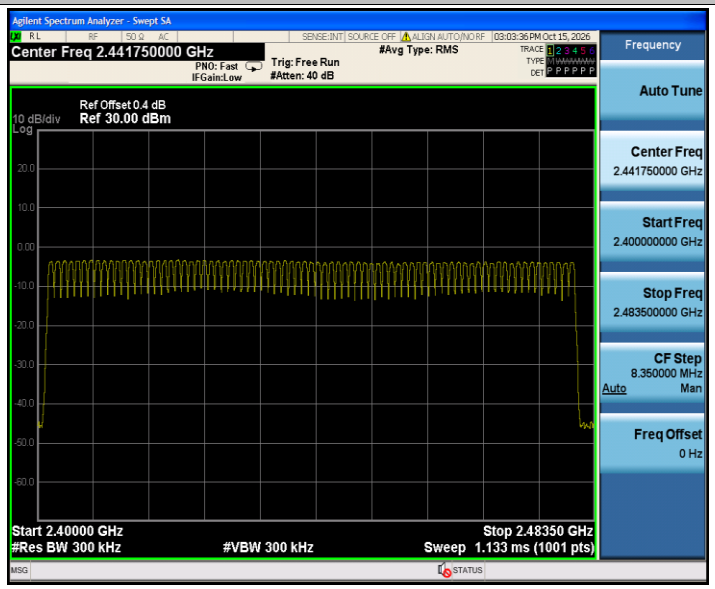
Appendix F: Number of hopping channels

Test Result

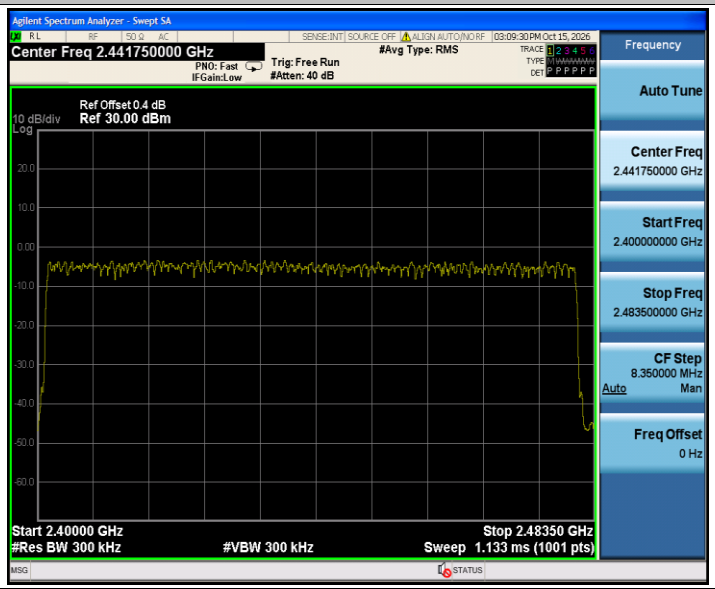
TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

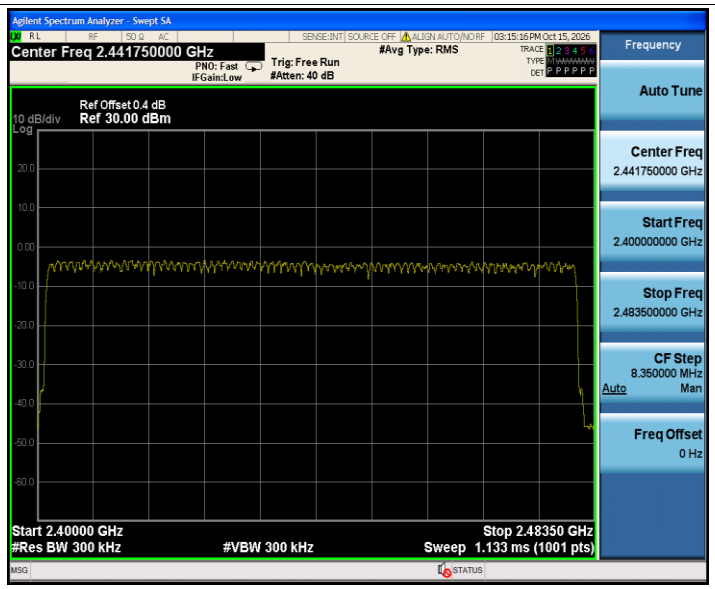
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441750000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
#Avg Type: RMS
03:15:16 PM Oct 15, 2026
Ref Offset 0.4 dB
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Start 2.40000 GHz
#Res BW 300 kHz
#VBW 300 kHz
Stop 2.48350 GHz
Sweep 1.133 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.441750000 GHz
Start Freq
2.400000000 GHz
Stop Freq
2.483500000 GHz
CF Step
8.350000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

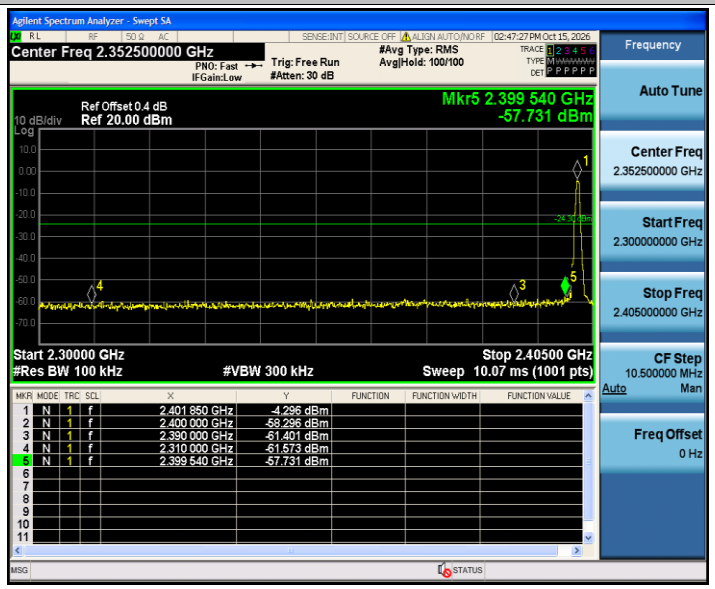
Appendix G: Band edge measurements

Test Result

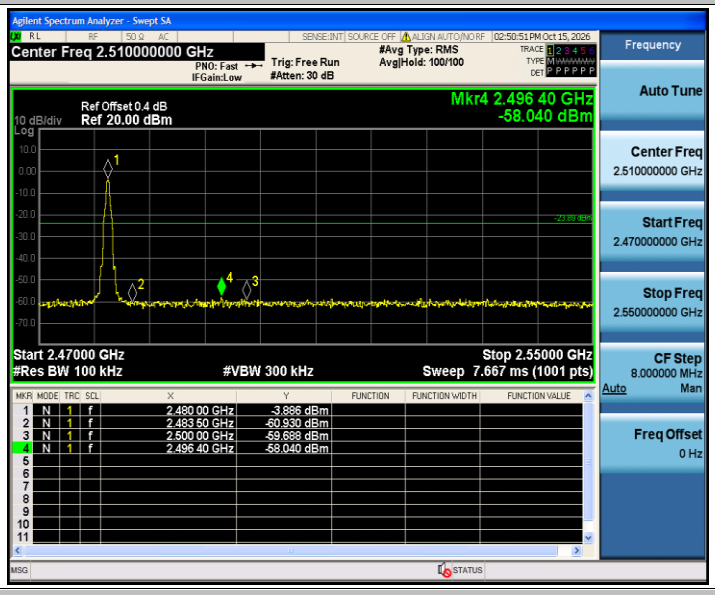
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.30	-57.73	≤-24.3	PASS
		High	2480	-3.89	-58.04	≤-23.89	PASS
		Low	Hop_2402	-3.40	-57.48	≤-23.4	PASS
		High	Hop_2480	-3.95	-57.05	≤-23.95	PASS
2DH5	Ant1	Low	2402	-5.29	-57.61	≤-25.29	PASS
		High	2480	-5.65	-57.33	≤-25.65	PASS
		Low	Hop_2402	-4.69	-57.82	≤-24.69	PASS
		High	Hop_2480	-4.00	-57.02	≤-24	PASS
3DH5	Ant1	Low	2402	-4.05	-57.79	≤-24.05	PASS
		High	2480	-3.86	-57.47	≤-23.86	PASS
		Low	Hop_2402	-5.81	-57.67	≤-25.81	PASS
		High	Hop_2480	-3.99	-57.42	≤-23.99	PASS

Test Graphs

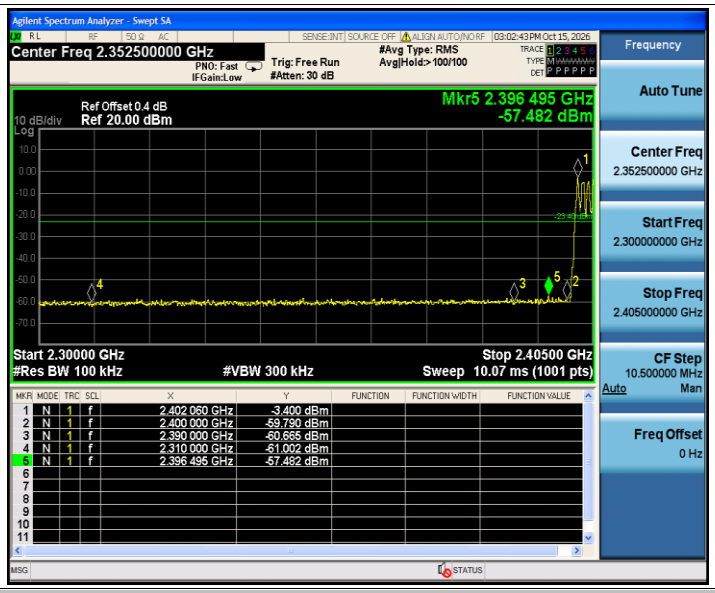
DH5_Ant1_Low_2402



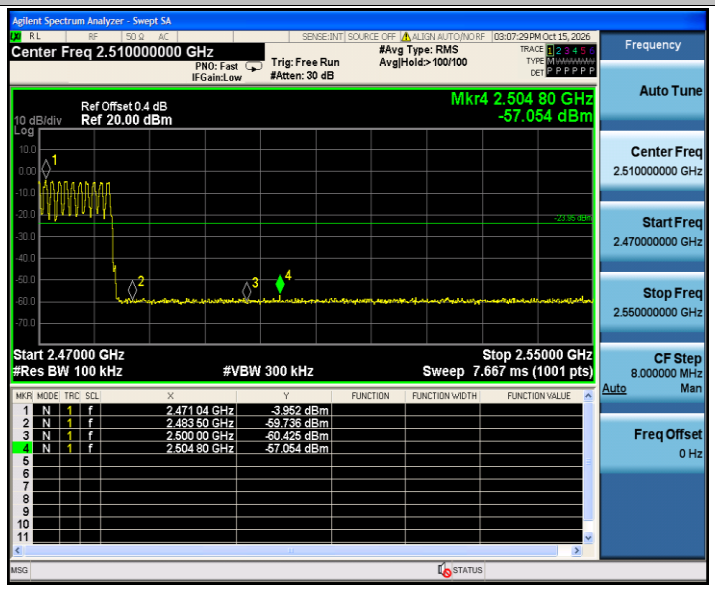
DH5_Ant1_High_2480



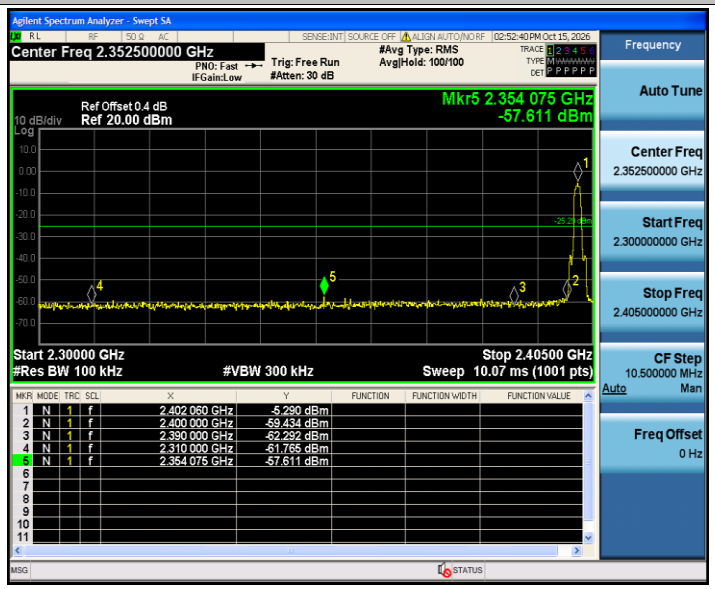
DH5_Ant1_Low_Hop_2402



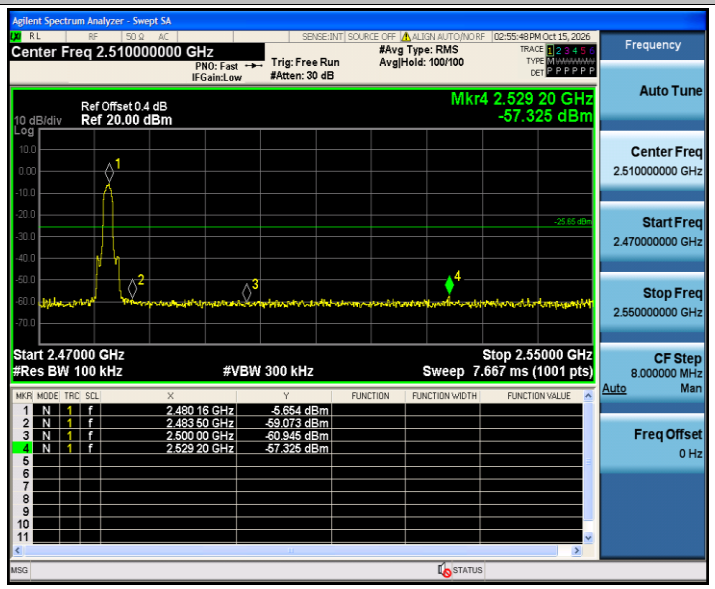
DH5_Ant1_High_Hop_2480



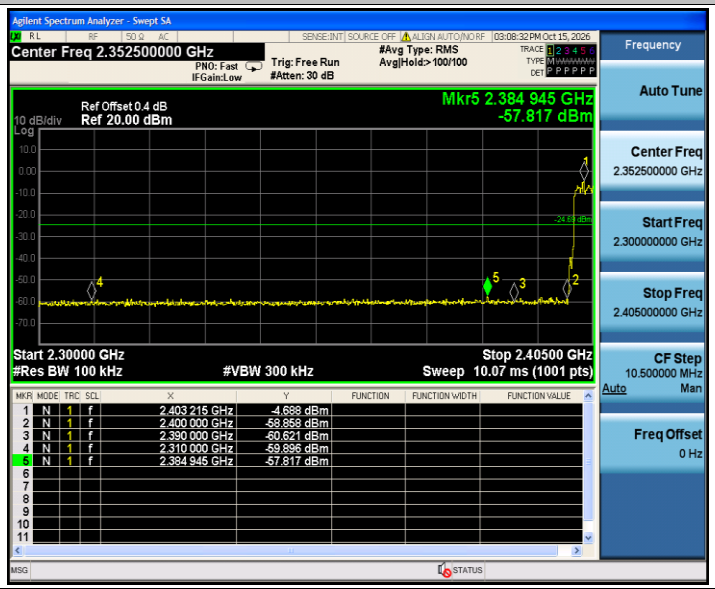
2DH5_Ant1_Low_2402



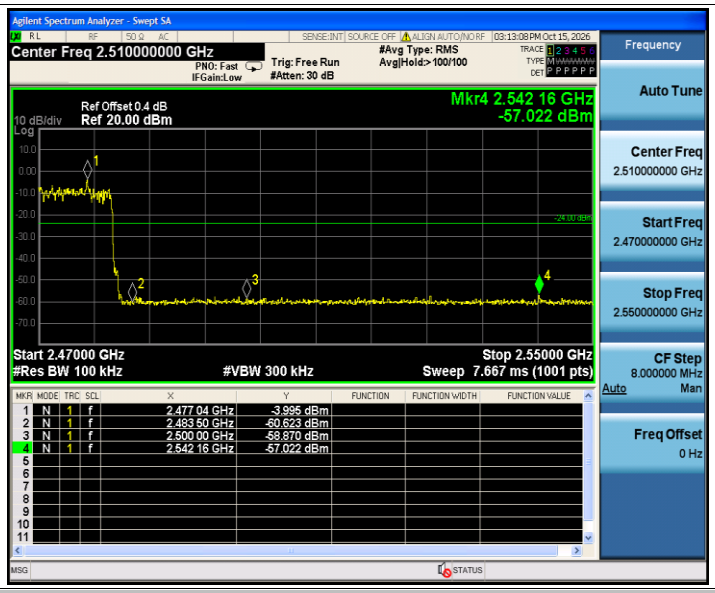
2DH5_Ant1_High_2480



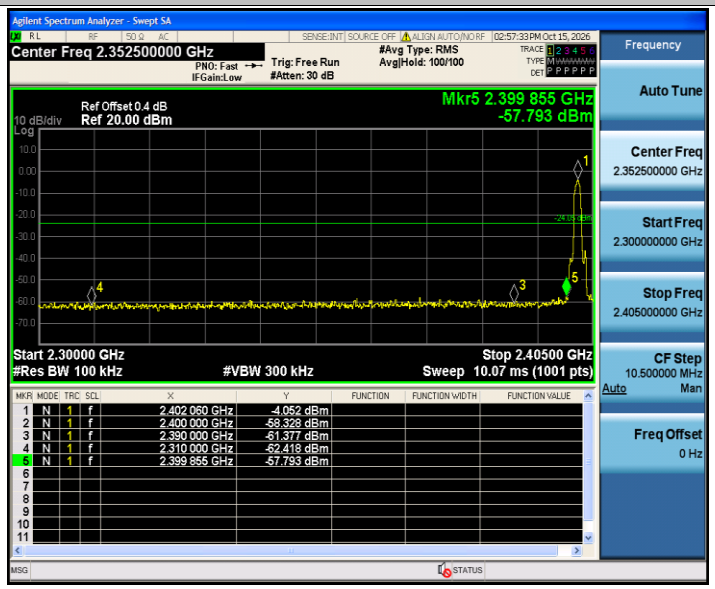
2DH5_Ant1_Low_Hop_2402



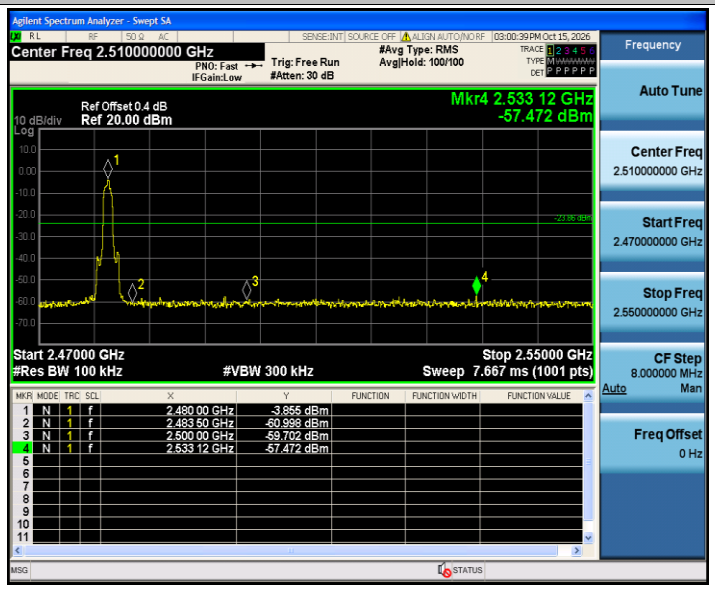
2DH5_Ant1_High_Hop_2480

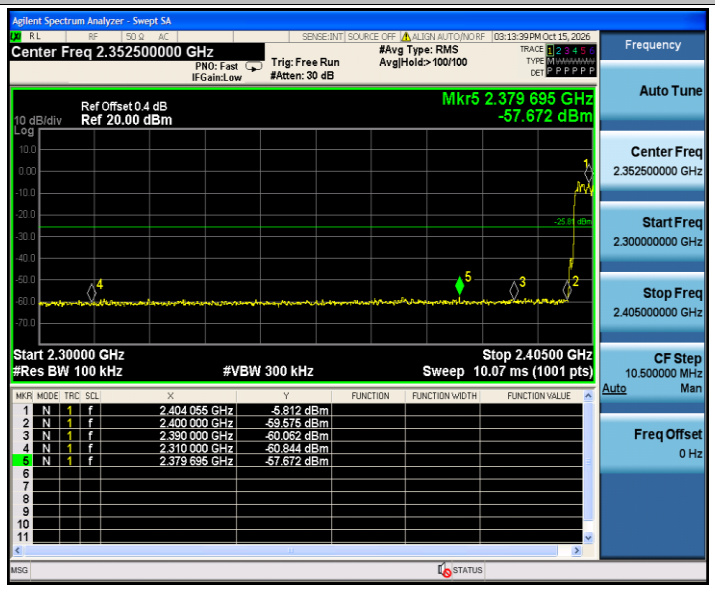


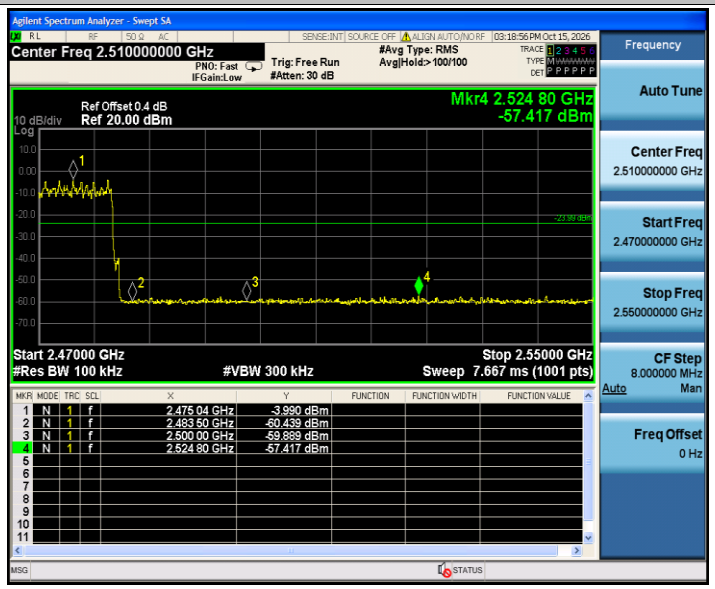
3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402


3DH5_Ant1_High_Hop_2480


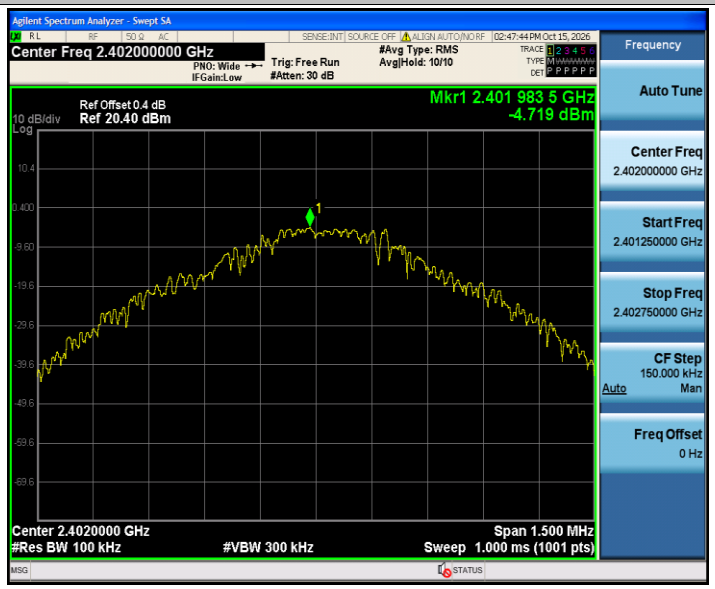
Appendix H: Conducted Spurious Emission

Test Result

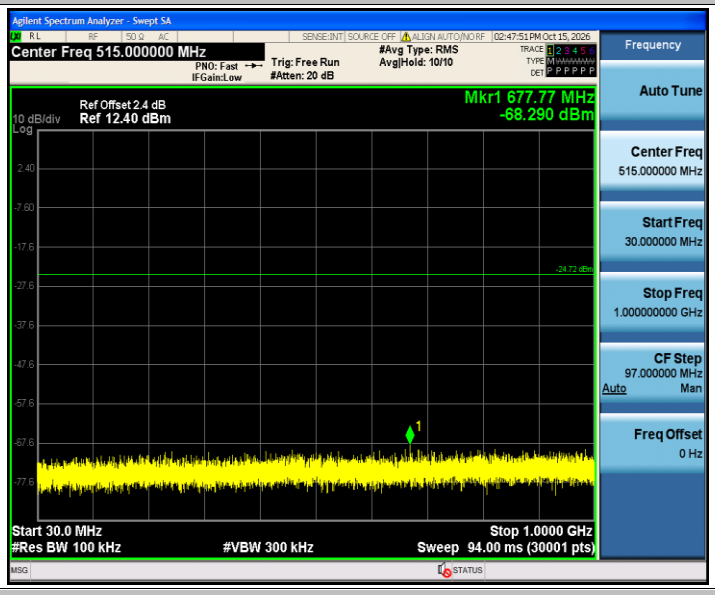
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.72	-4.72	---	PASS
			30~1000	-4.72	-68.29	≤-24.72	PASS
			1000~26500	-4.72	-46.33	≤-24.72	PASS
		2441	Reference	-4.50	-4.50	---	PASS
			30~1000	-4.50	-68.59	≤-24.5	PASS
			1000~26500	-4.50	-46.57	≤-24.5	PASS
		2480	Reference	-5.05	-5.05	---	PASS
			30~1000	-5.05	-68.52	≤-25.05	PASS
			1000~26500	-5.05	-46.45	≤-25.05	PASS
2DH5	Ant1	2402	Reference	-5.26	-5.26	---	PASS
			30~1000	-5.26	-68.59	≤-25.26	PASS
			1000~26500	-5.26	-46.92	≤-25.26	PASS
		2441	Reference	-4.90	-4.90	---	PASS
			30~1000	-4.90	-68.77	≤-24.9	PASS
			1000~26500	-4.90	-46.35	≤-24.9	PASS
		2480	Reference	-5.84	-5.84	---	PASS
			30~1000	-5.84	-68.46	≤-25.84	PASS
			1000~26500	-5.84	-46.91	≤-25.84	PASS
3DH5	Ant1	2402	Reference	-4.22	-4.22	---	PASS
			30~1000	-4.22	-66.7	≤-24.22	PASS
			1000~26500	-4.22	-45.68	≤-24.22	PASS
		2441	Reference	-6.66	-6.66	---	PASS
			30~1000	-6.66	-68.92	≤-26.66	PASS
			1000~26500	-6.66	-46.1	≤-26.66	PASS
		2480	Reference	-6.79	-6.79	---	PASS
			30~1000	-6.79	-67.67	≤-26.79	PASS
			1000~26500	-6.79	-46.55	≤-26.79	PASS

Test Graphs

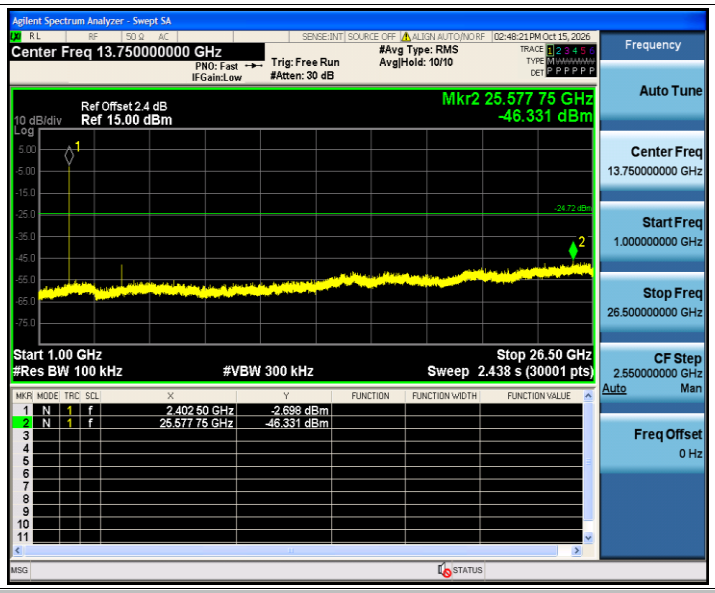
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



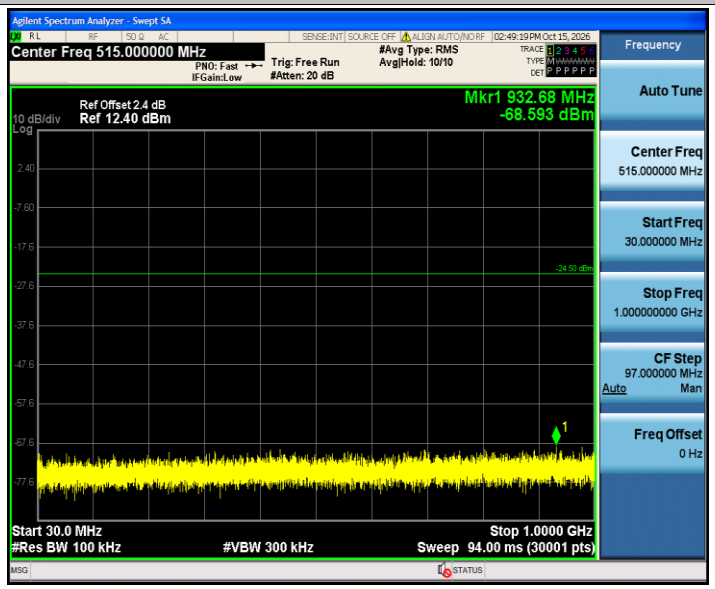
DH5_Ant1_2402_1000~26500

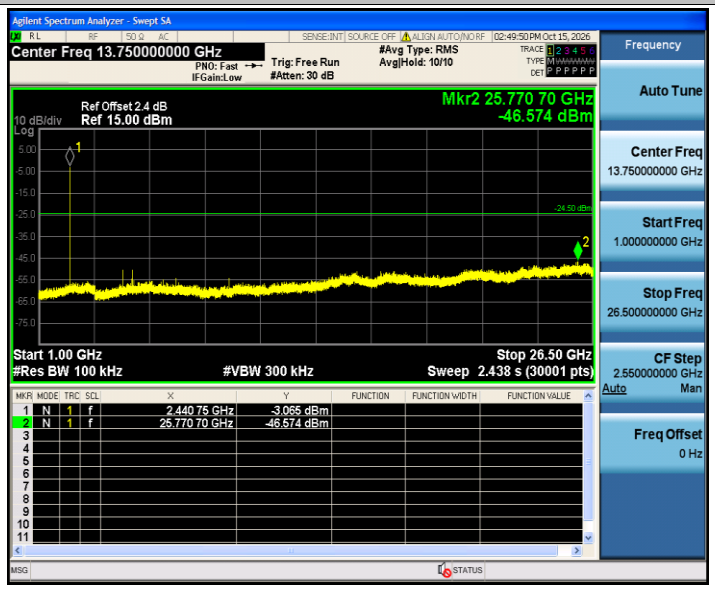
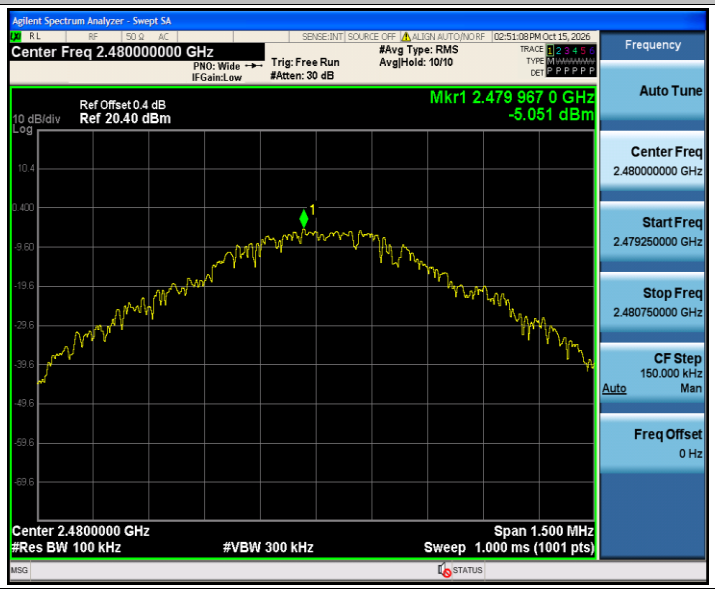


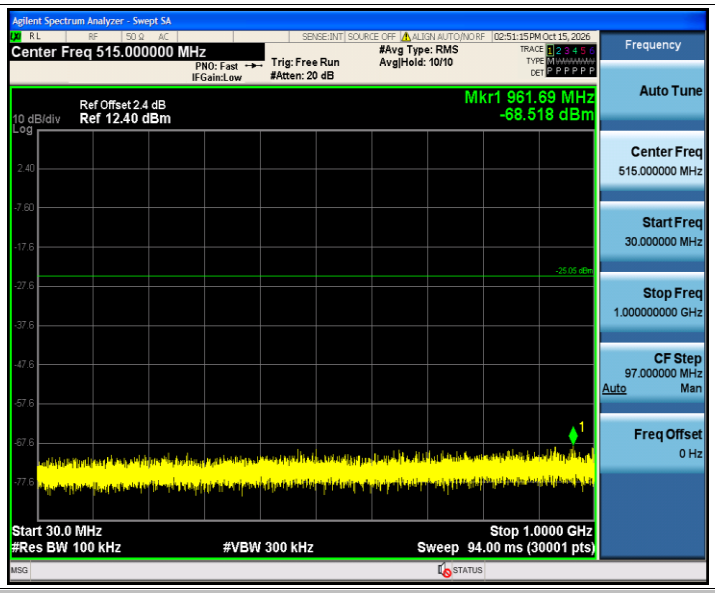
DH5_Ant1_2441_0~Reference



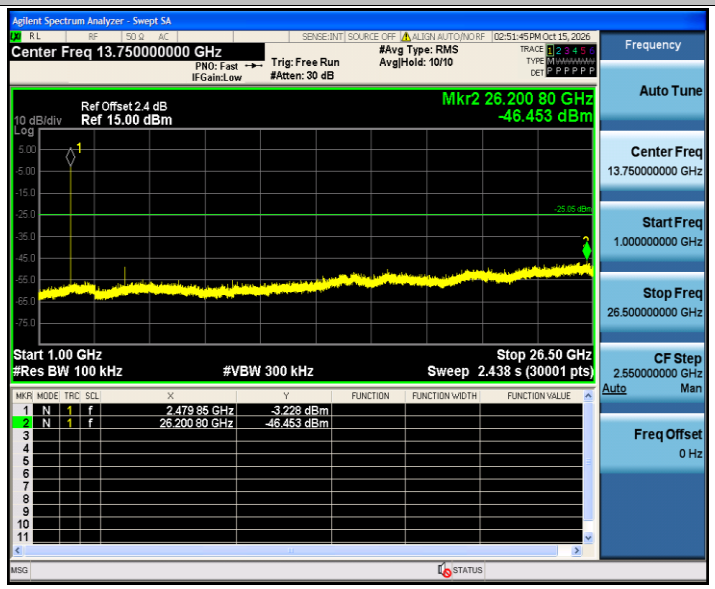
DH5_Ant1_2441_30~1000



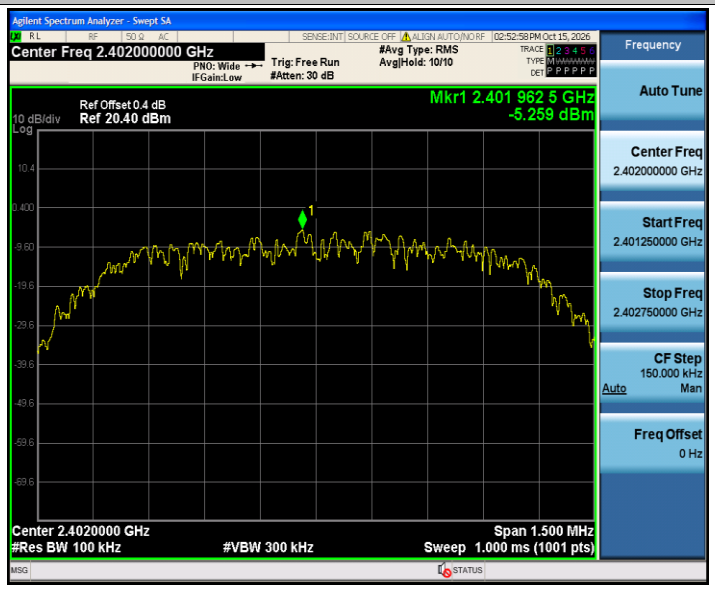
DH5_Ant1_2441_1000~26500

DH5_Ant1_2480_0~Reference

DH5_Ant1_2480_30~1000

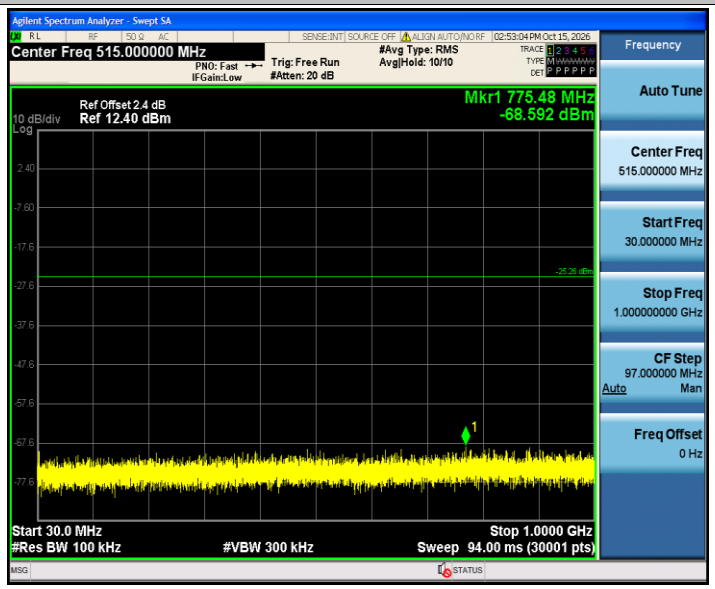
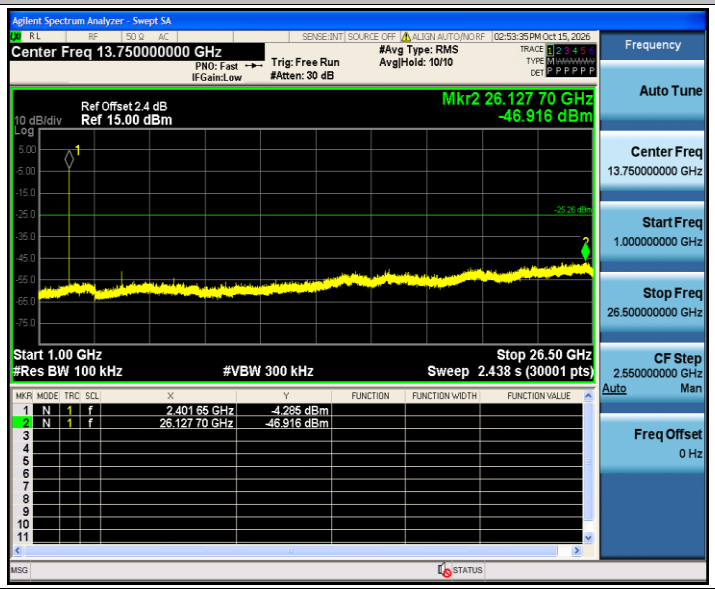


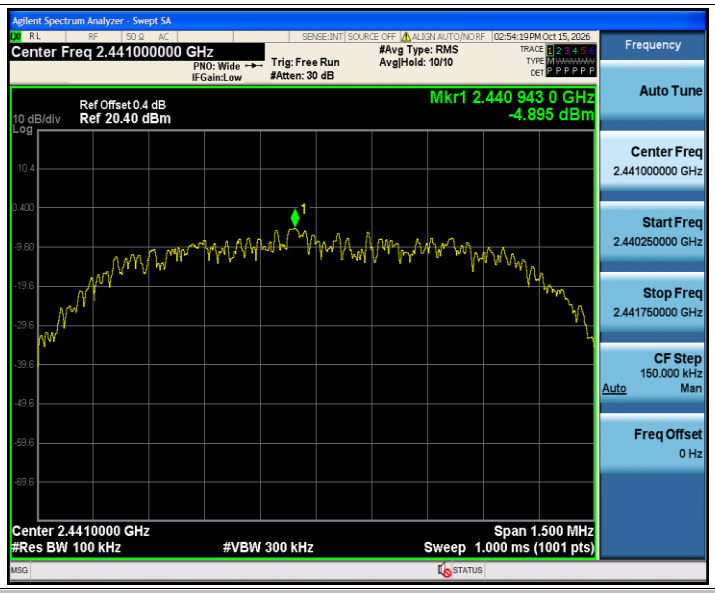
DH5_Ant1_2480_1000~26500



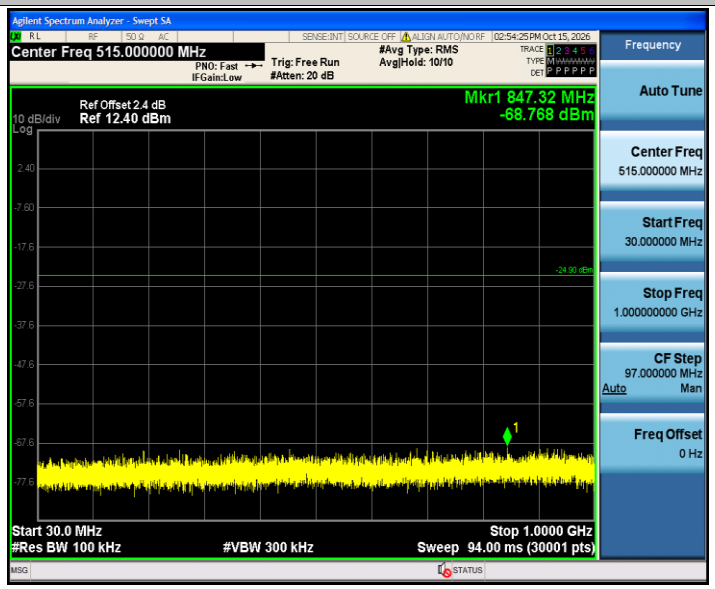
2DH5_Ant1_2402_0~Reference



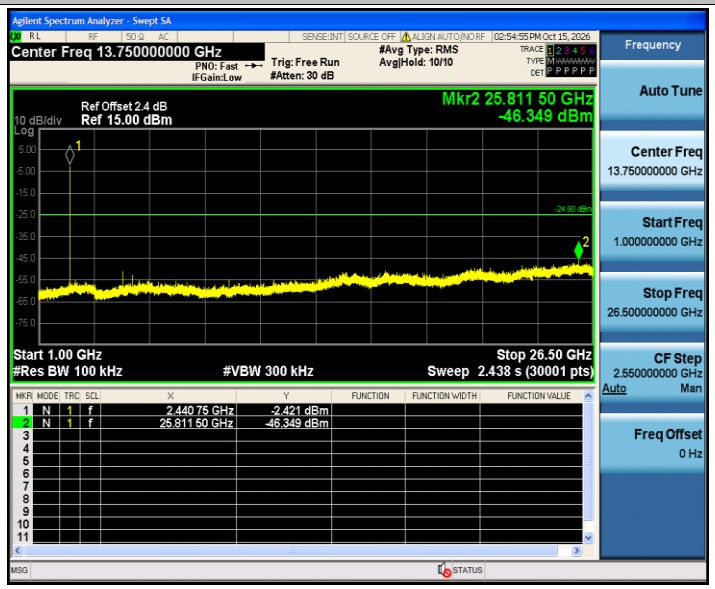
2DH5_Ant1_2402_30~1000

2DH5_Ant1_2402_1000~26500

2DH5_Ant1_2441_0~Reference

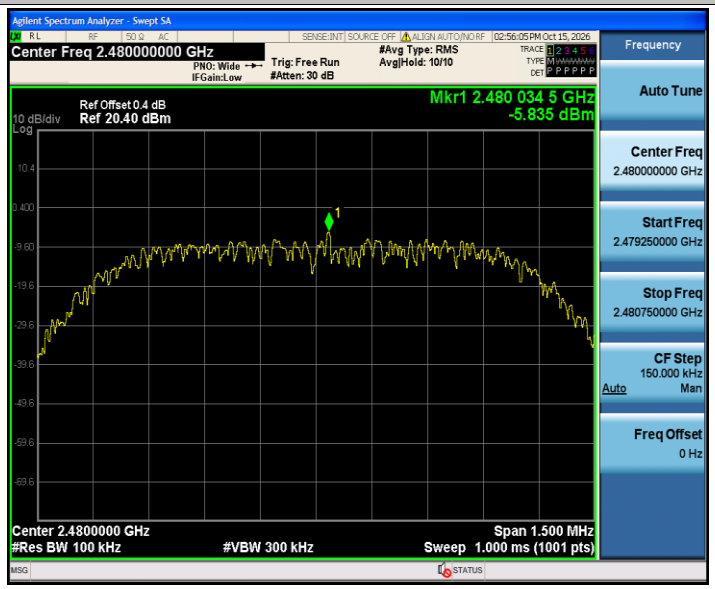
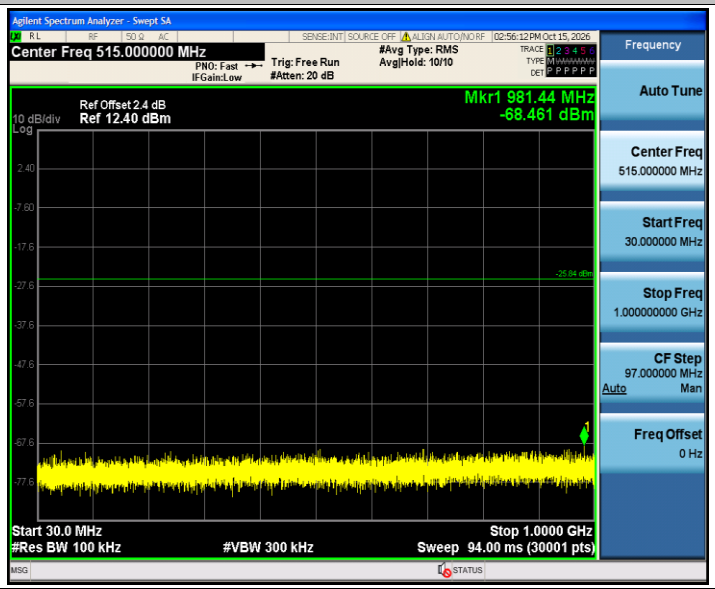


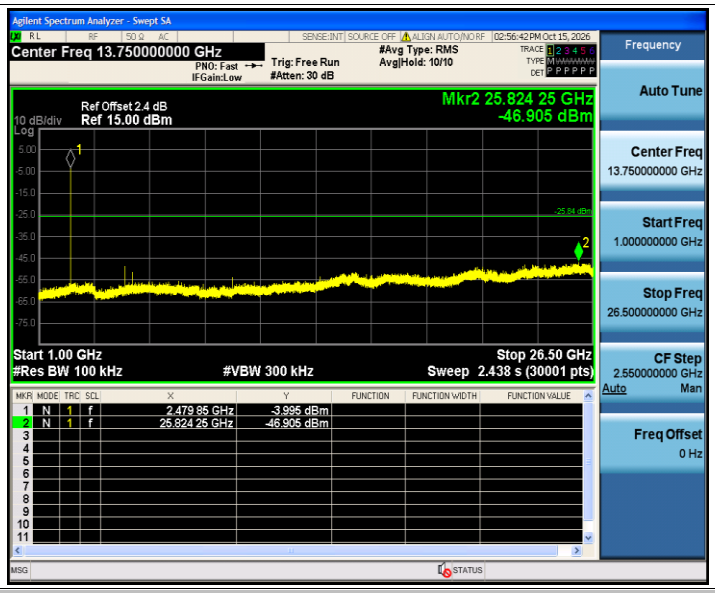
2DH5_Ant1_2441_30~1000



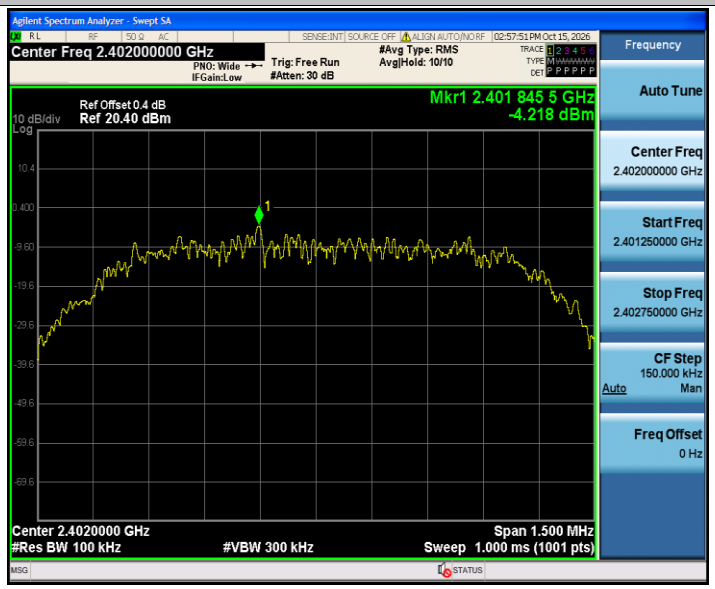
2DH5_Ant1_2441_1000~26500



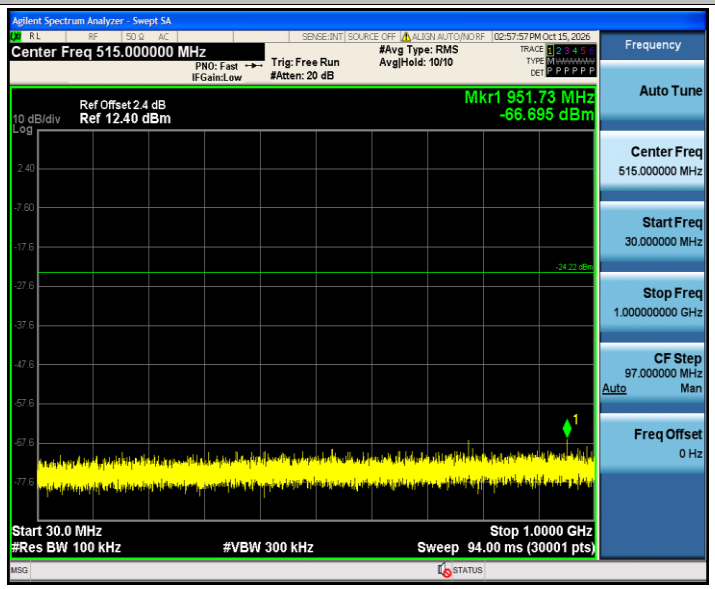
2DH5_Ant1_2480_0~Reference

2DH5_Ant1_2480_30~1000

2DH5_Ant1_2480_1000~26500

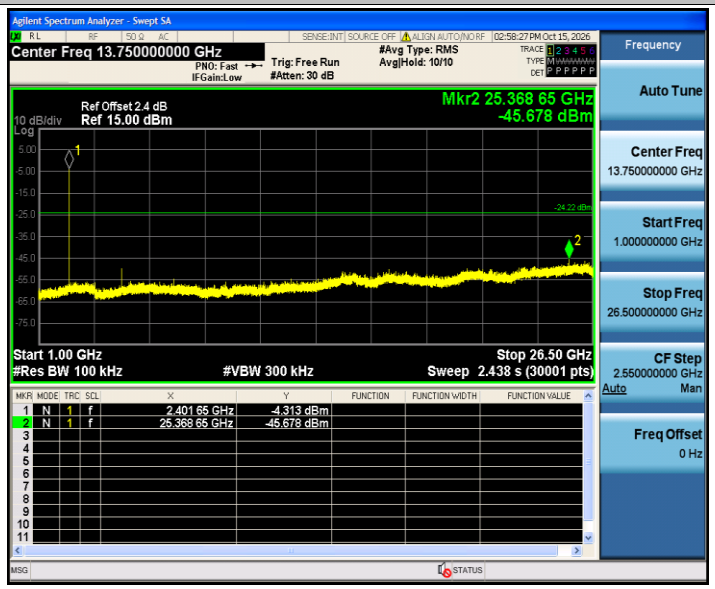


3DH5_Ant1_2402_0~Reference

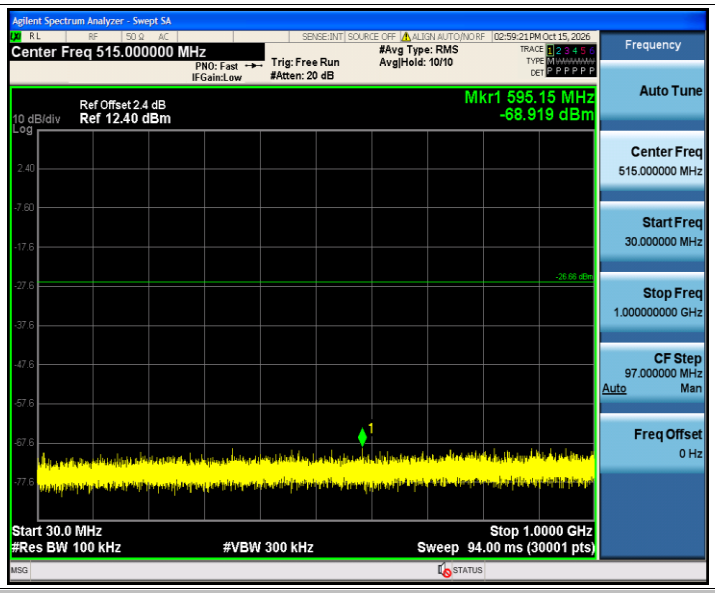


3DH5_Ant1_2402_30~1000

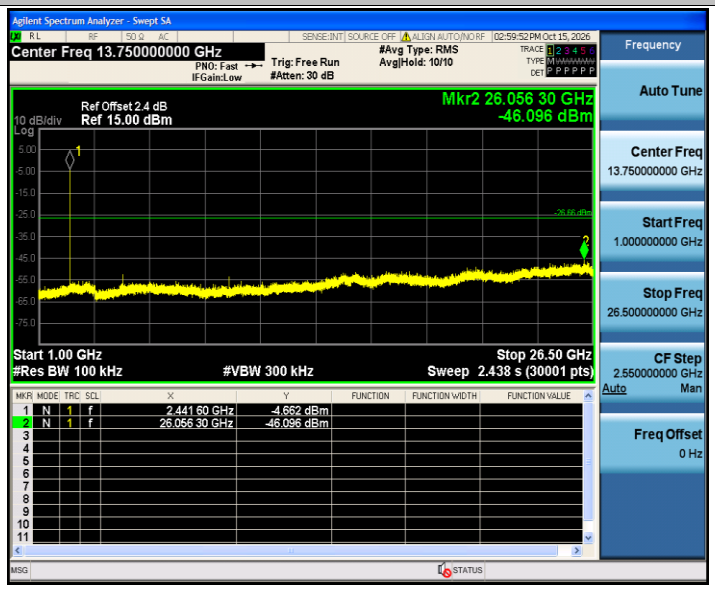


3DH5_Ant1_2402_1000~26500

3DH5_Ant1_2441_0~Reference

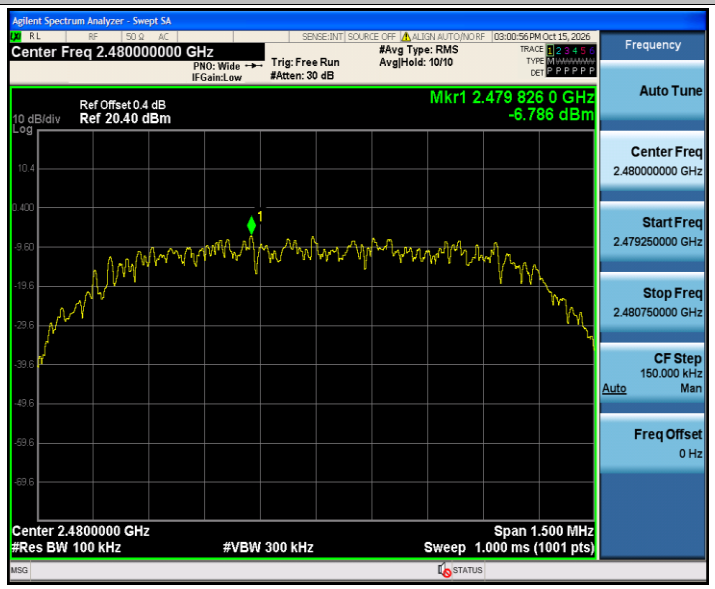
3DH5_Ant1_2441_30~1000

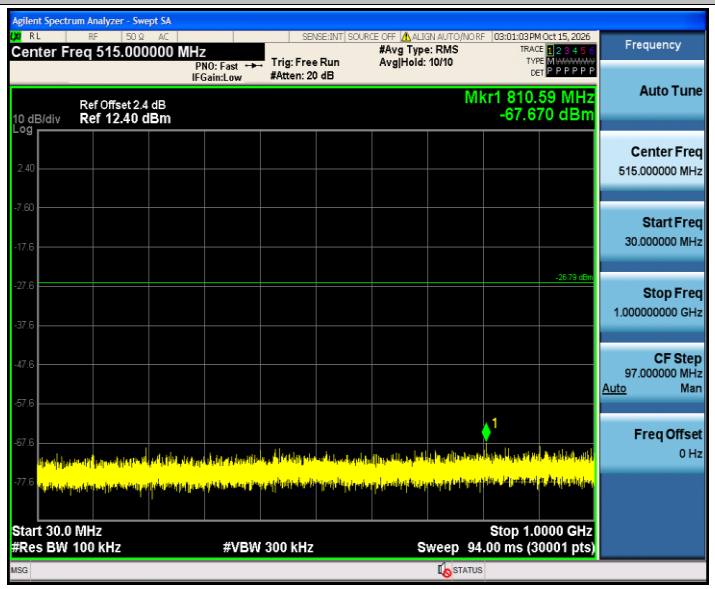


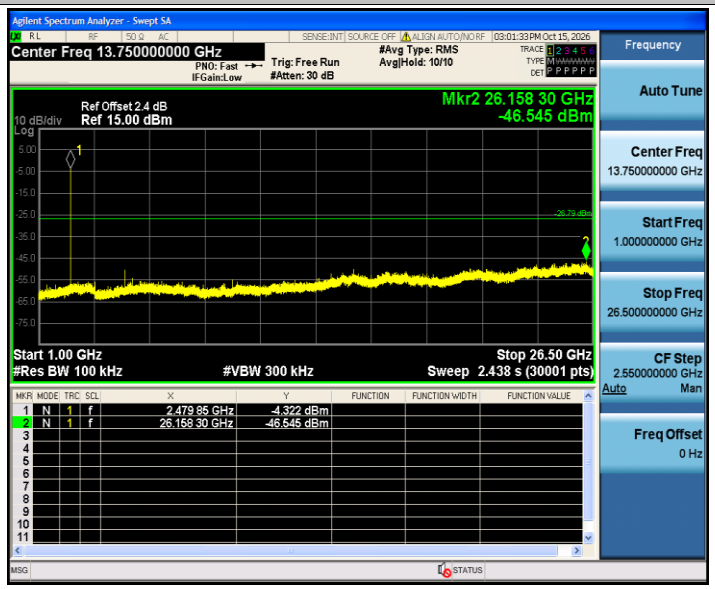
3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000


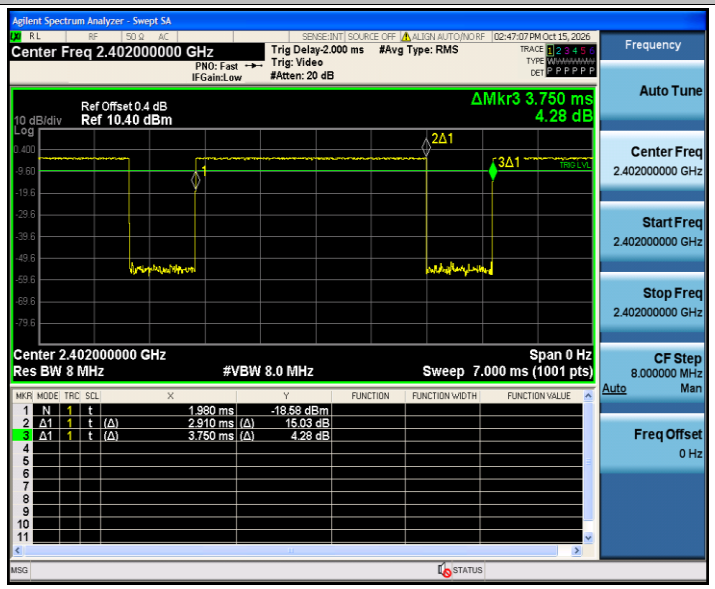
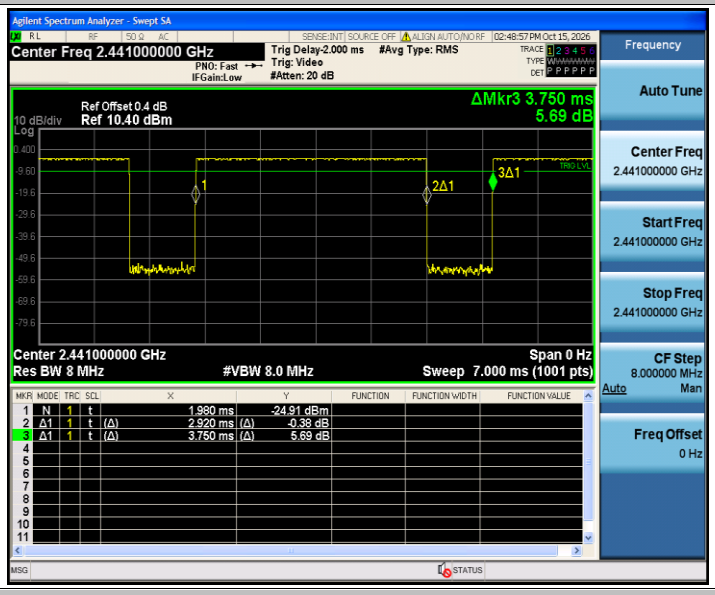
3DH5_Ant1_2480_1000~26500


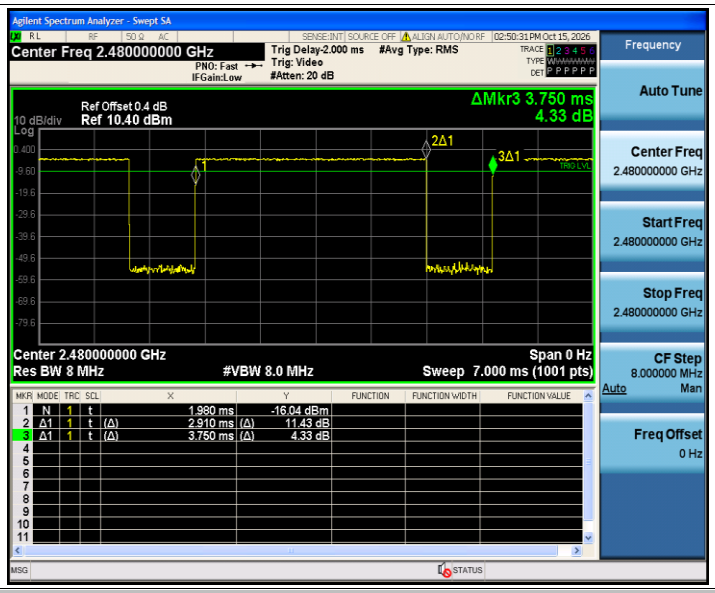
Appendix I: Duty Cycle

Test Result

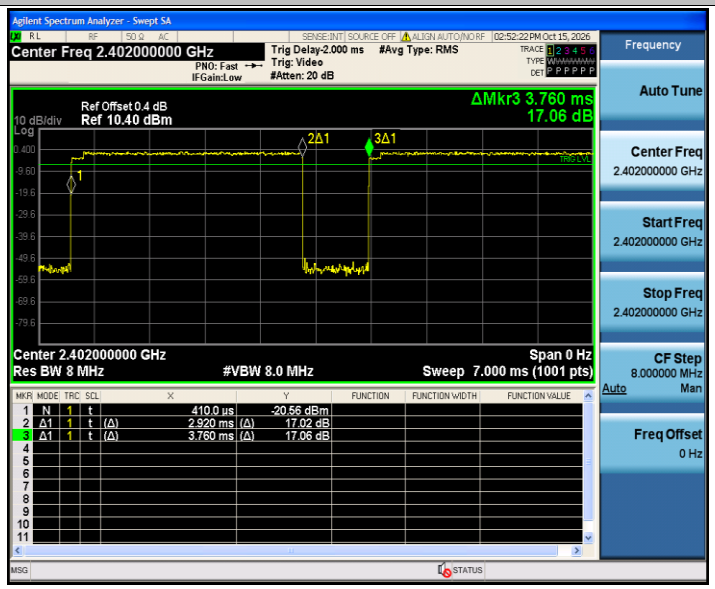
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.92	3.76	77.66	1.10	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.75	77.87	1.09	---	---
3DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.76	77.66	1.10	---	---
		2480	2.92	3.76	77.66	1.10	---	---

Test Graphs

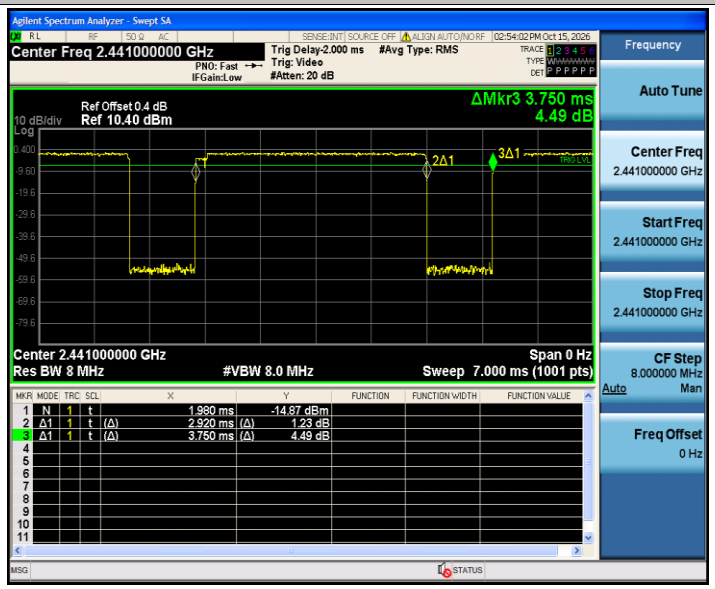
DH5_Ant1_2402

DH5_Ant1_2441

DH5_Ant1_2480

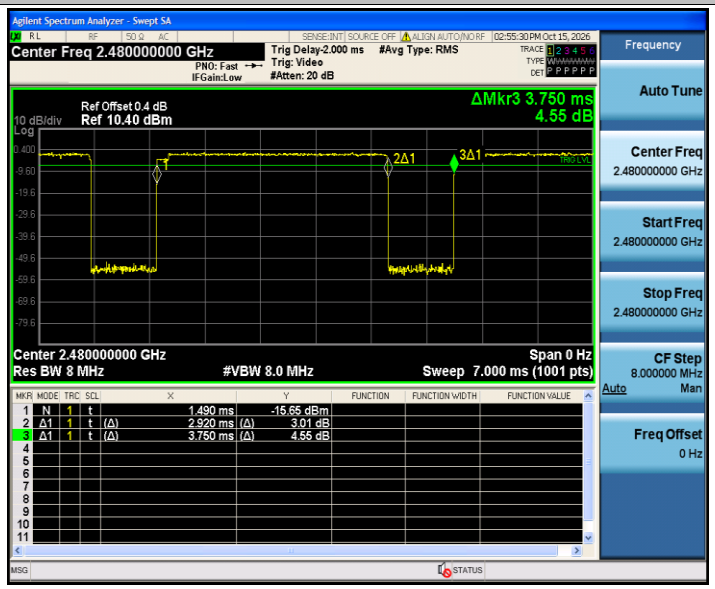
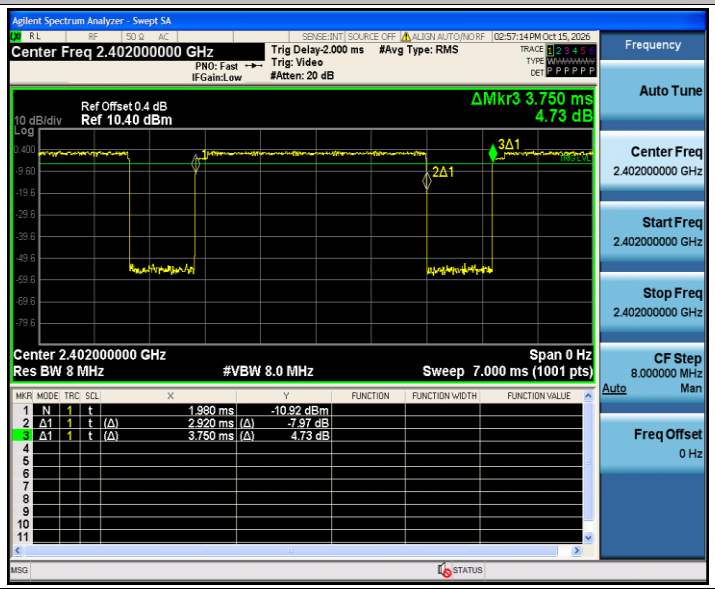


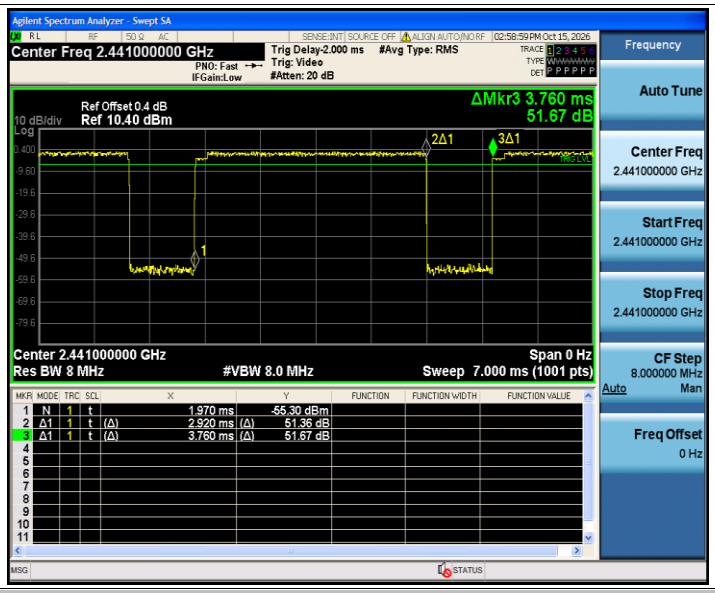
2DH5_Ant1_2402



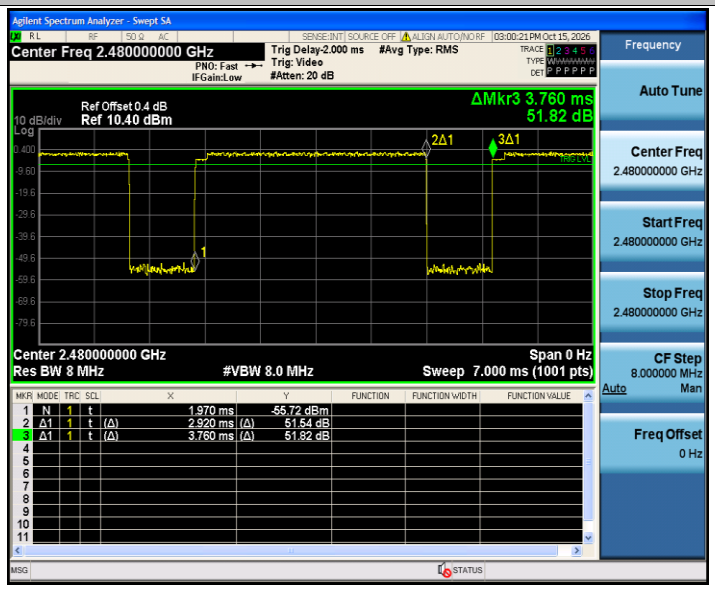
2DH5_Ant1_2441



2DH5_Ant1_2480

3DH5_Ant1_2402

3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix J: Emissions in Restricted Bands

Test Result

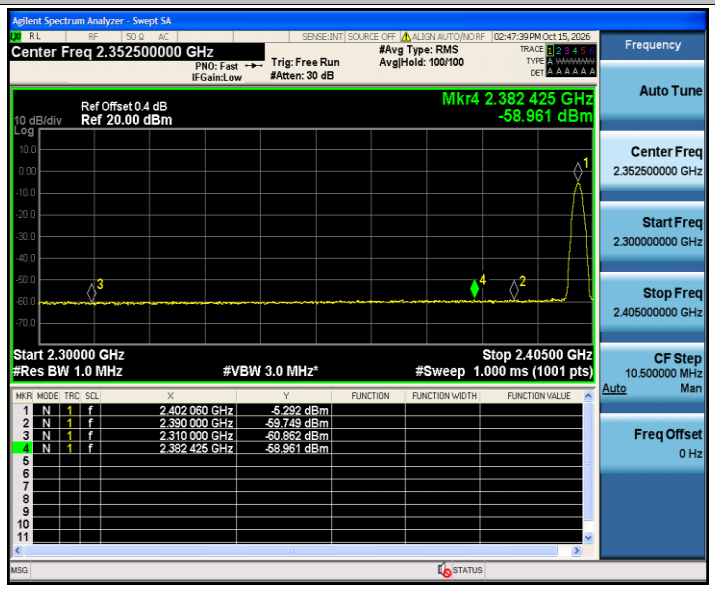
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-60.86	2.00	1.10	37.44	≤54	PASS
				AV	2382.425	-58.96	2.00	1.10	39.34	≤54	PASS
				AV	2390.000	-59.75	2.00	1.10	38.55	≤54	PASS
				Peak	2310.000	-52.36	2.00	0.00	44.84	≤74	PASS
				Peak	2370.665	-49.25	2.00	0.00	47.95	≤74	PASS
				Peak	2390.000	-50.87	2.00	0.00	46.33	≤74	PASS
		High	2480	AV	2483.500	-58.94	2.00	1.10	39.36	≤54	PASS
				AV	2483.760	-58.56	2.00	1.10	39.74	≤54	PASS
				AV	2500.000	-59.08	2.00	1.10	39.22	≤54	PASS
				Peak	2483.500	-51	2.00	0.00	46.20	≤74	PASS
				Peak	2484.400	-48.84	2.00	0.00	48.36	≤74	PASS
				Peak	2500.000	-51.58	2.00	0.00	45.62	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-60.52	2.00	1.10	37.78	≤54	PASS
				AV	2372.135	-58.94	2.00	1.10	39.36	≤54	PASS
				AV	2390.000	-59.7	2.00	1.10	38.60	≤54	PASS
				Peak	2310.000	-52.42	2.00	0.00	44.78	≤74	PASS
				Peak	2388.305	-48.99	2.00	0.00	48.21	≤74	PASS
				Peak	2390.000	-50.51	2.00	0.00	46.69	≤74	PASS
		High	2480	AV	2483.500	-58.6	2.00	1.09	39.69	≤54	PASS
				AV	2483.600	-58.46	2.00	1.09	39.83	≤54	PASS
				AV	2500.000	-59.43	2.00	1.09	38.86	≤54	PASS
				Peak	2483.500	-51.12	2.00	0.00	46.08	≤74	PASS
				Peak	2484.560	-46.73	2.00	0.00	50.47	≤74	PASS
				Peak	2500.000	-51.05	2.00	0.00	46.15	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-60.55	2.00	1.09	37.74	≤54	PASS
				AV	2387.465	-59.11	2.00	1.09	39.18	≤54	PASS
				AV	2390.000	-59.57	2.00	1.09	38.72	≤54	PASS
				Peak	2310.000	-51.21	2.00	0.00	45.99	≤74	PASS
				Peak	2356.070	-49.2	2.00	0.00	48.00	≤74	PASS
				Peak	2390.000	-51.92	2.00	0.00	45.28	≤74	PASS
		High	2480	AV	2483.500	-58.45	2.00	1.10	39.85	≤54	PASS
				AV	2484.000	-58.4	2.00	1.10	39.90	≤54	PASS
				AV	2500.000	-59.74	2.00	1.10	38.56	≤54	PASS
				Peak	2483.500	-49.82	2.00	0.00	47.38	≤74	PASS
				Peak	2492.880	-48.78	2.00	0.00	48.42	≤74	PASS
				Peak	2500.000	-51.7	2.00	0.00	45.50	≤74	PASS

Note：

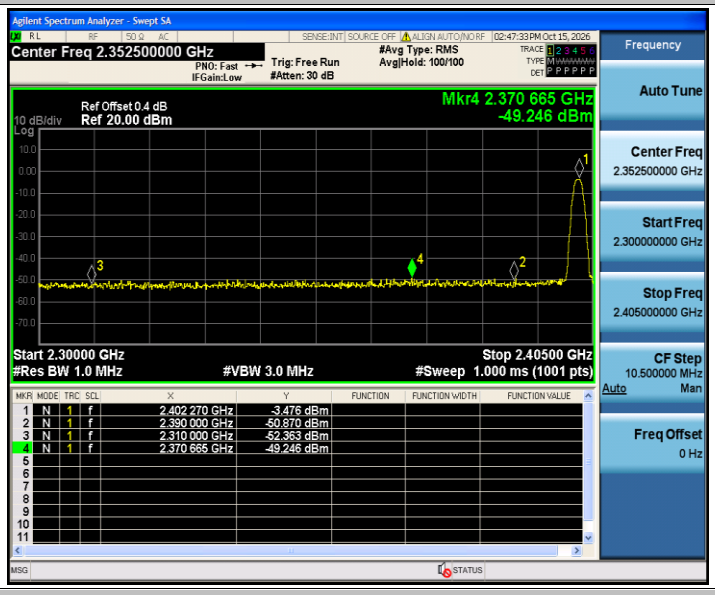
1. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

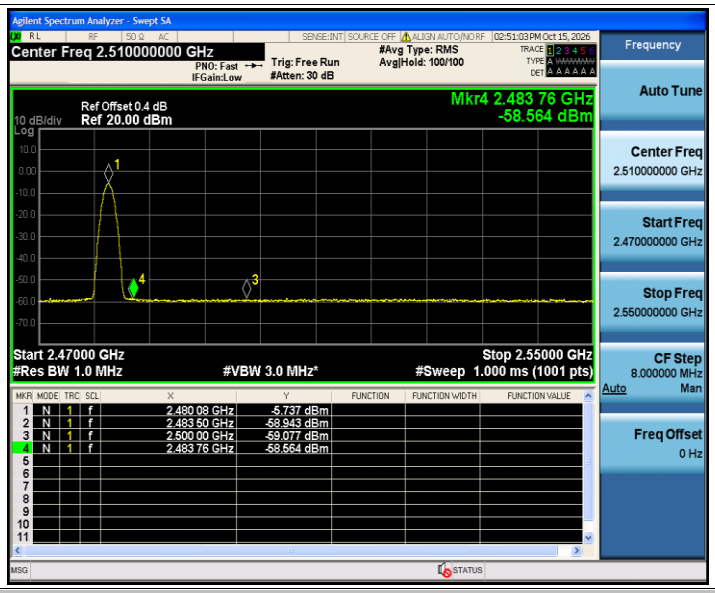
DH5_Ant1_Low_2402_AV



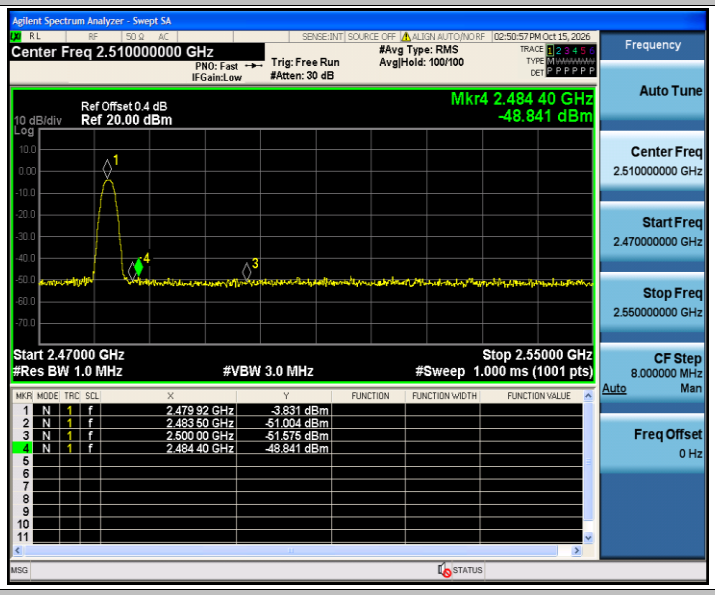
DH5_Ant1_Low_2402_Peak



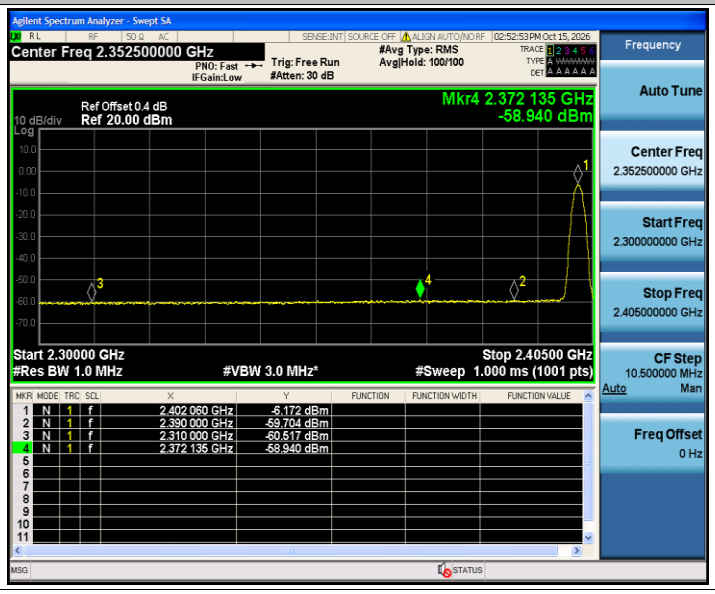
DH5_Ant1_High_2480_AV



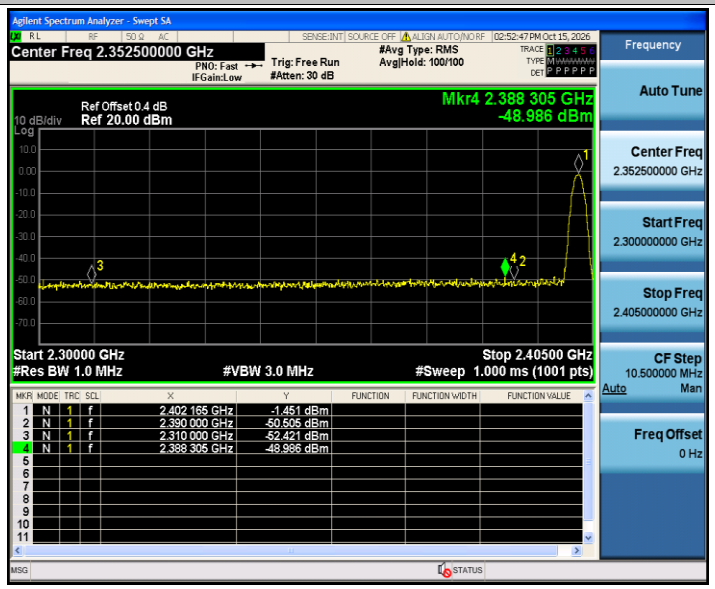
DH5_Ant1_High_2480_Peak



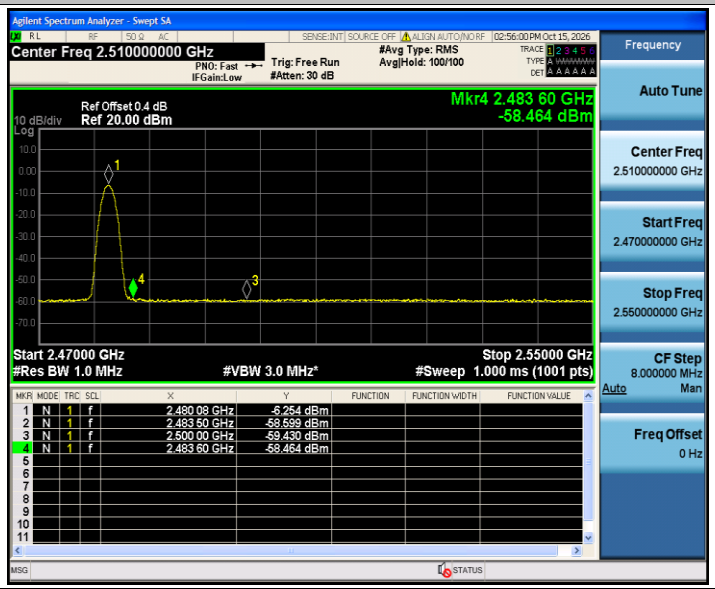
2DH5_Ant1_Low_2402_AV



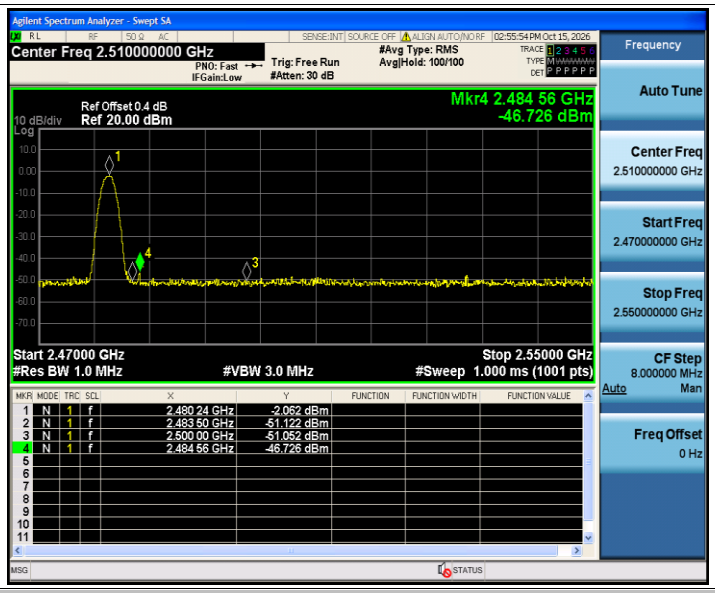
2DH5_Ant1_Low_2402_Peak



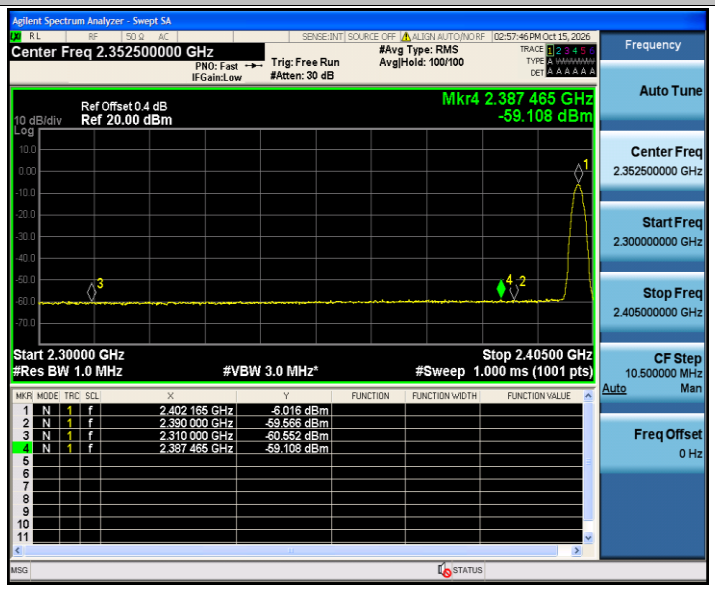
2DH5_Ant1_High_2480_AV



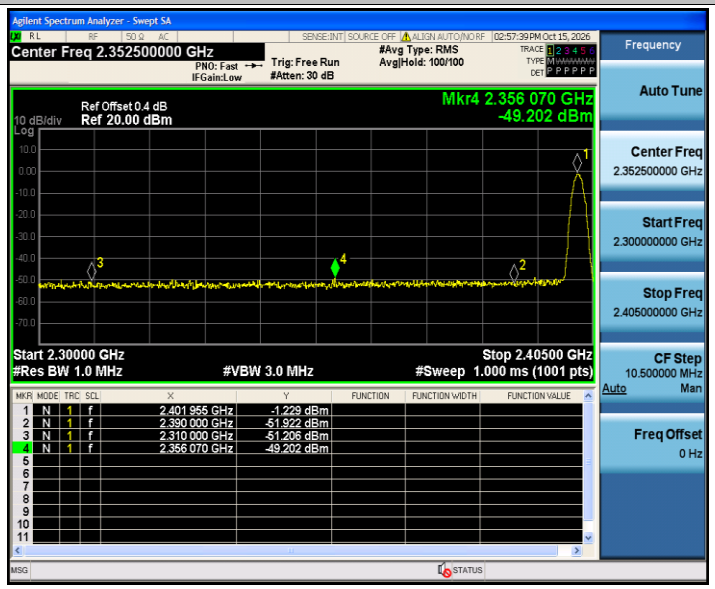
2DH5_Ant1_High_2480_Peak

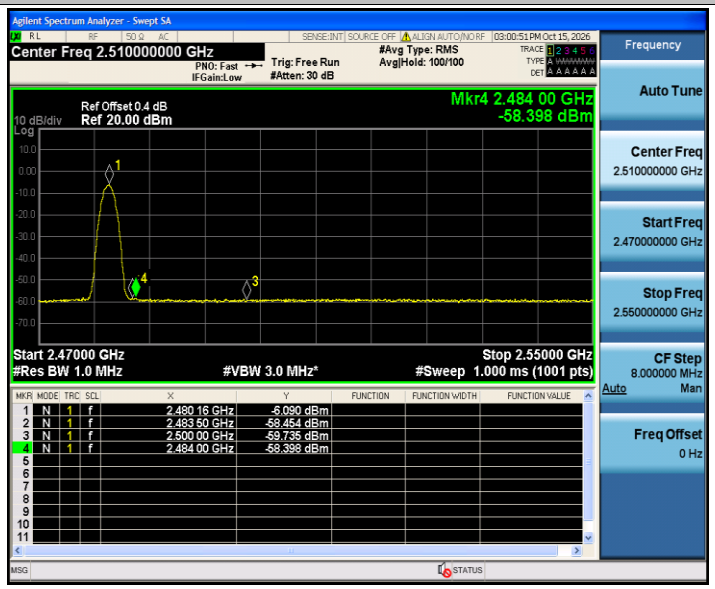


3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV

3DH5_Ant1_High_2480_Peak
