

Appendix G: Band edge measurements

Test Result

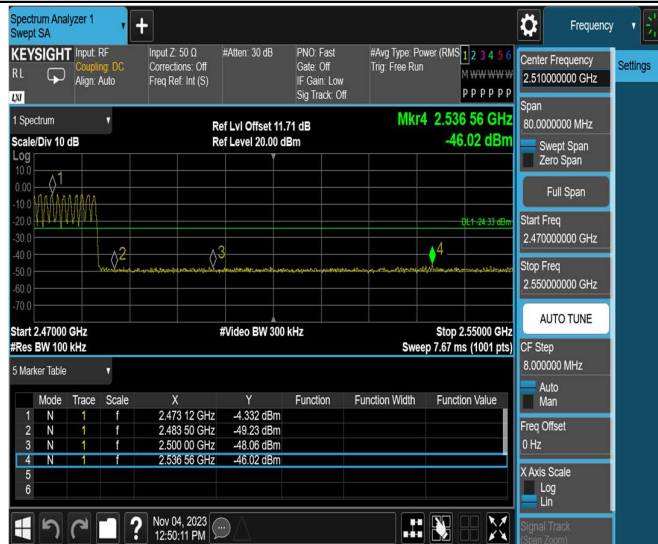
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.16	-46.32	≤-22.16	PASS
		High	2480	-4.10	-46.8	≤-24.1	PASS
		Low	Hop_2402	-3.15	-46.61	≤-23.15	PASS
		High	Hop_2480	-4.33	-46.02	≤-24.33	PASS
2DH5	Ant1	Low	2402	-2.44	-46.38	≤-22.44	PASS
		High	2480	-4.09	-47.12	≤-24.09	PASS
		Low	Hop_2402	-2.35	-47	≤-22.35	PASS
		High	Hop_2480	-4.82	-46.52	≤-24.82	PASS
3DH5	Ant1	Low	2402	-2.11	-45.65	≤-22.11	PASS
		High	2480	-4.05	-46.56	≤-24.05	PASS
		Low	Hop_2402	-4.53	-46.8	≤-24.53	PASS
		High	Hop_2480	-3.94	-46.64	≤-23.94	PASS

Test Graphs

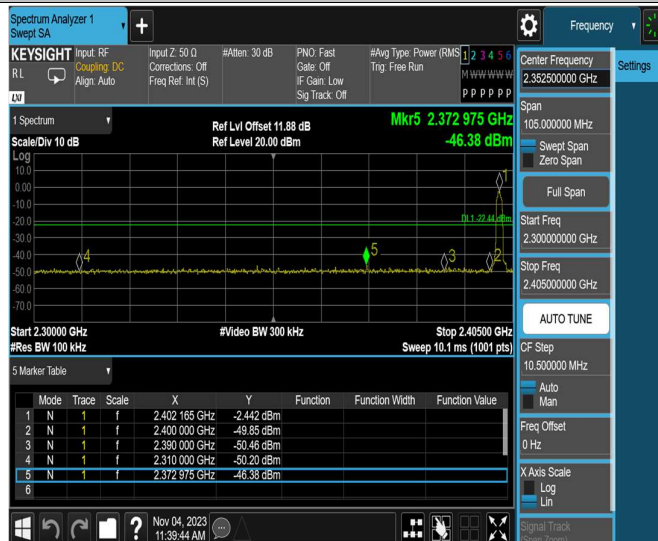




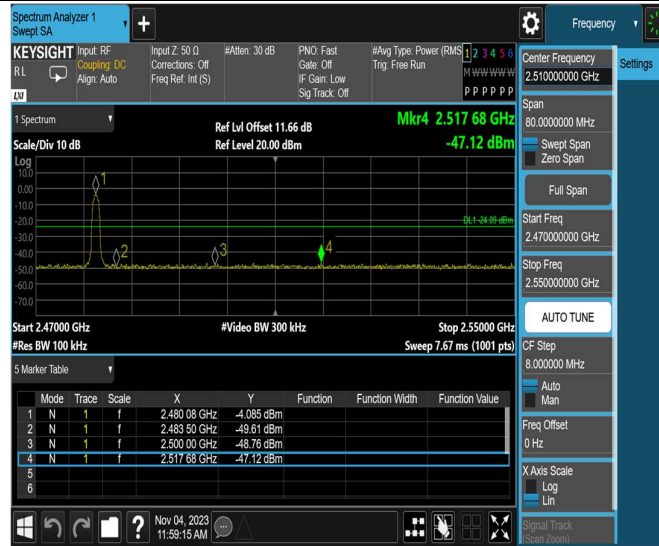
DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402



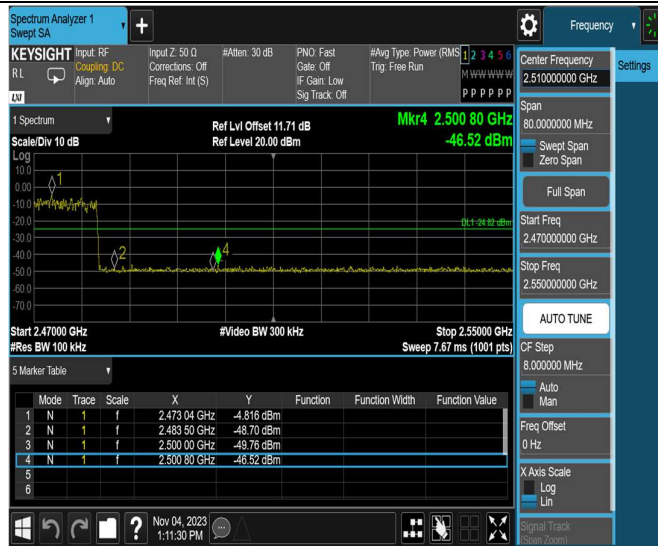
2DH5_Ant1_High_2480



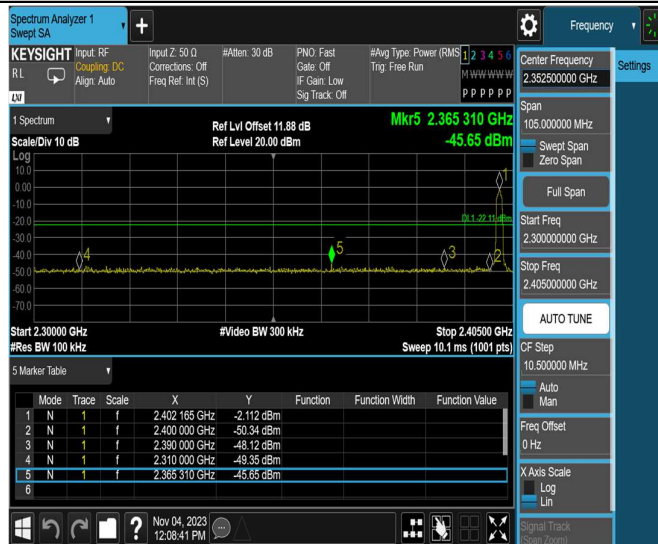
2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480



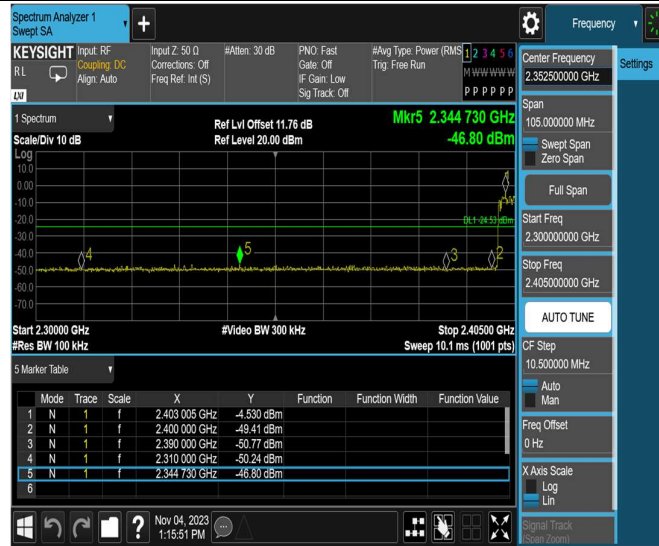
3DH5_Ant1_Low_2402



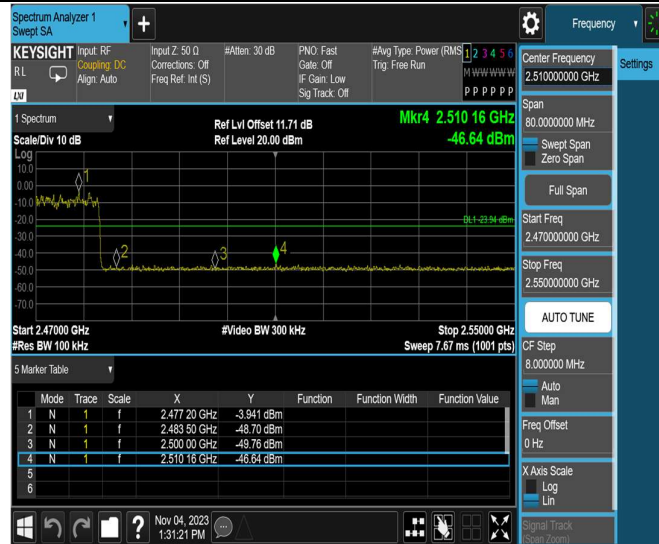
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

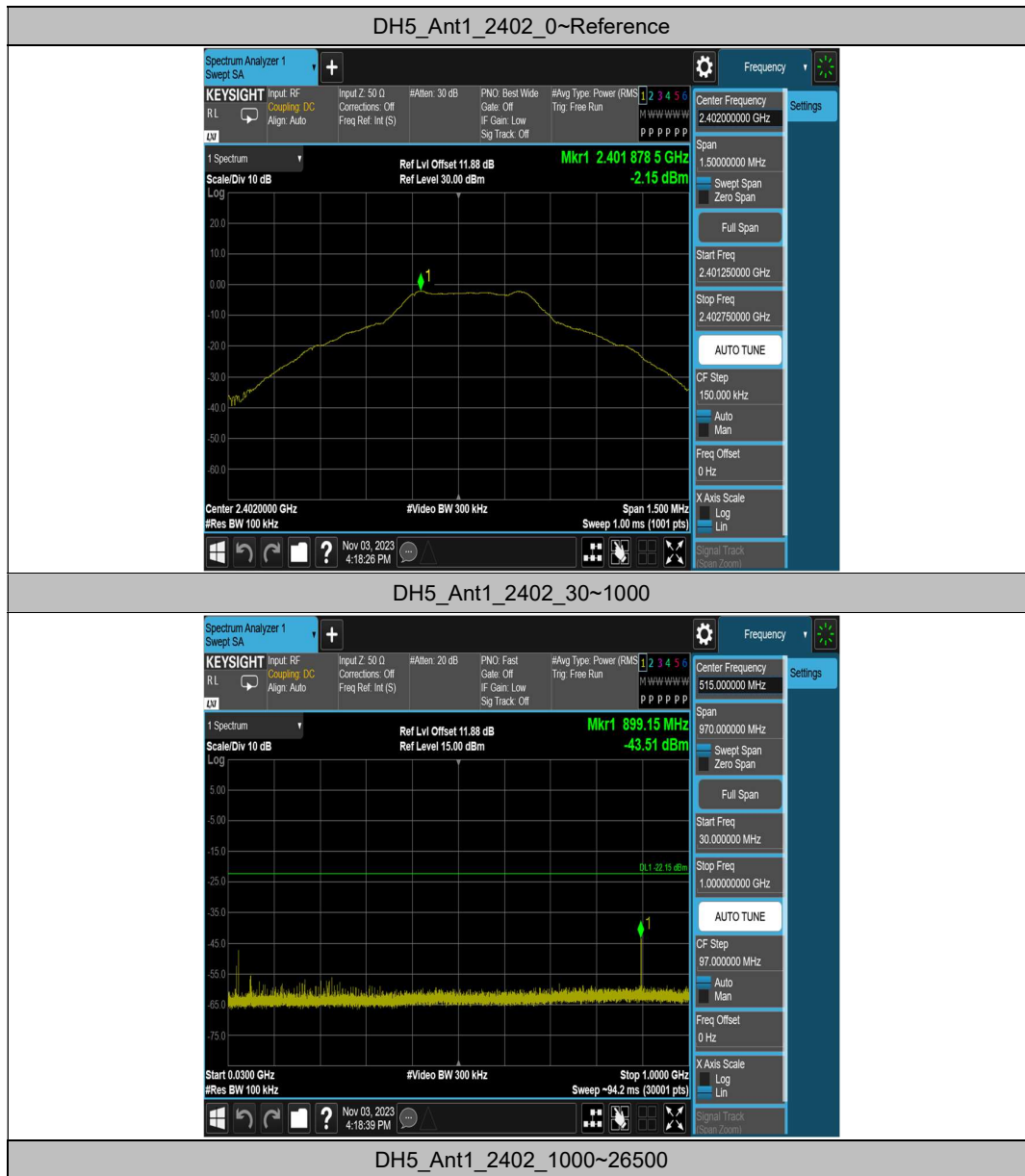


Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-2.15	-2.15	---	PASS
			30~1000	-2.15	-43.51	≤-22.15	PASS
			1000~26500	-2.15	-49.83	≤-22.15	PASS
		2441	Reference	-2.84	-2.84	---	PASS
			30~1000	-2.84	-47.11	≤-22.84	PASS
			1000~26500	-2.84	-50.28	≤-22.84	PASS
		2480	Reference	-3.87	-3.87	---	PASS
			30~1000	-3.87	-46.68	≤-23.87	PASS
			1000~26500	-3.87	-50.63	≤-23.87	PASS
2DH5	Ant1	2402	Reference	-2.47	-2.47	---	PASS
			30~1000	-2.47	-46.96	≤-22.47	PASS
			1000~26500	-2.47	-51.04	≤-22.47	PASS
		2441	Reference	-3.19	-3.19	---	PASS
			30~1000	-3.19	-46.95	≤-23.19	PASS
			1000~26500	-3.19	-50.41	≤-23.19	PASS
		2480	Reference	-4.28	-4.28	---	PASS
			30~1000	-4.28	-47.04	≤-24.28	PASS
			1000~26500	-4.28	-50.7	≤-24.28	PASS
3DH5	Ant1	2402	Reference	-2.28	-2.28	---	PASS
			30~1000	-2.28	-32.44	≤-22.28	PASS
			1000~26500	-2.28	-49.87	≤-22.28	PASS
		2441	Reference	-2.87	-2.87	---	PASS
			30~1000	-2.87	-47.12	≤-22.87	PASS
			1000~26500	-2.87	-49.96	≤-22.87	PASS
		2480	Reference	-4.09	-4.09	---	PASS
			30~1000	-4.09	-46.99	≤-24.09	PASS
			1000~26500	-4.09	-50.61	≤-24.09	PASS

Test Graphs

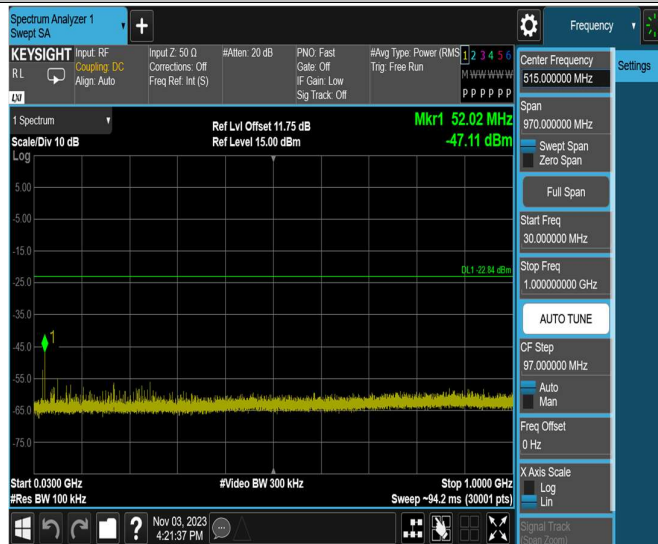




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000





DH5_Ant1_2480_0~Reference

Spectrum Analyzer 1
Sweep SA

KEYSIGHT
RL

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 P P P P P P P P P P P P P P P

Frequency

Settings

Center Frequency
2.480000000 GHz

Span
1.50000000 MHz
Sweep Span
Zero Span
Full Span

Start Freq
2.479250000 GHz

Stop Freq
2.480750000 GHz

AUTO TUNE

CF Step
150.000 kHz

Auto
Man

Freq Offset
0 Hz

X Axis Scale
Log
Lin

Signal Track
(Scan Zoom)

1 Spectrum

Ref Lvl Offset 11.66 dB
Ref Level 30.00 dBm

Mkr1 2.479 886 0 GHz
-3.87 dBm

Scale/Div 10 dB

Log

Center 2.4800000 GHz

#Video BW 300 kHz

Span 1.500 MHz

#Res BW 100 kHz

Sweep 1.00 ms (1001 pts)

Apr 08, 2024
8:31:07 AM

DH5_Ant1_2480_30~1000



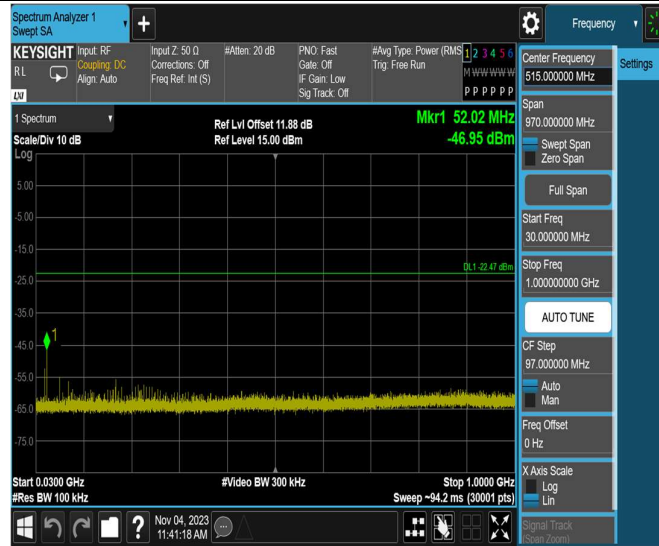
DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



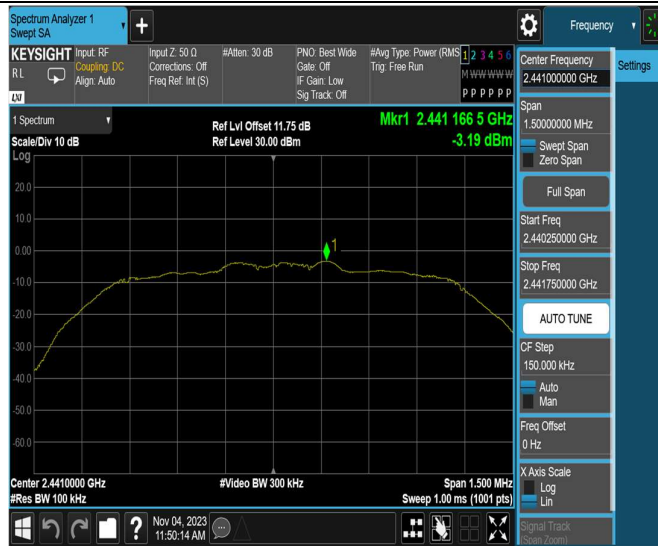
2DH5_Ant1_2402_30~1000



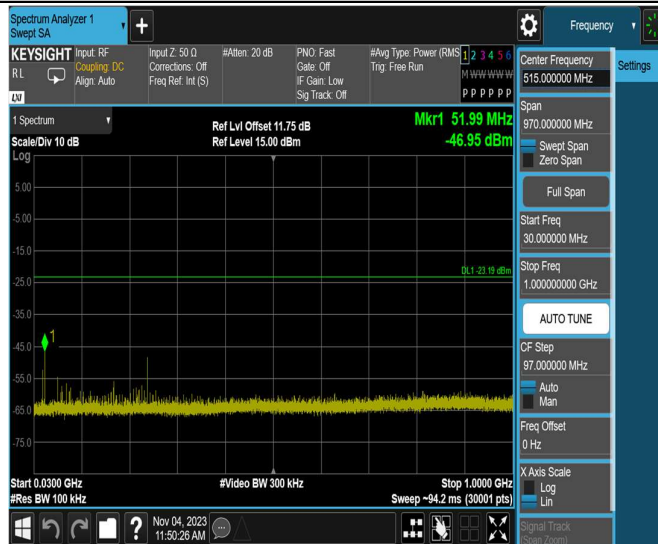
2DH5_Ant1_2402_1000~26500



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



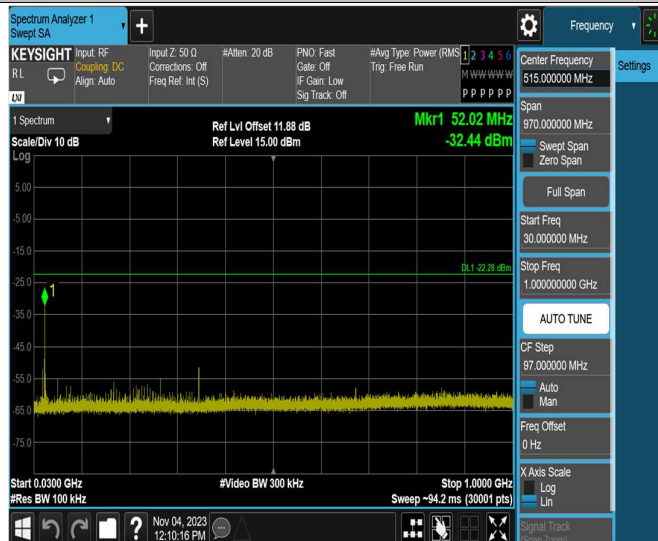
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



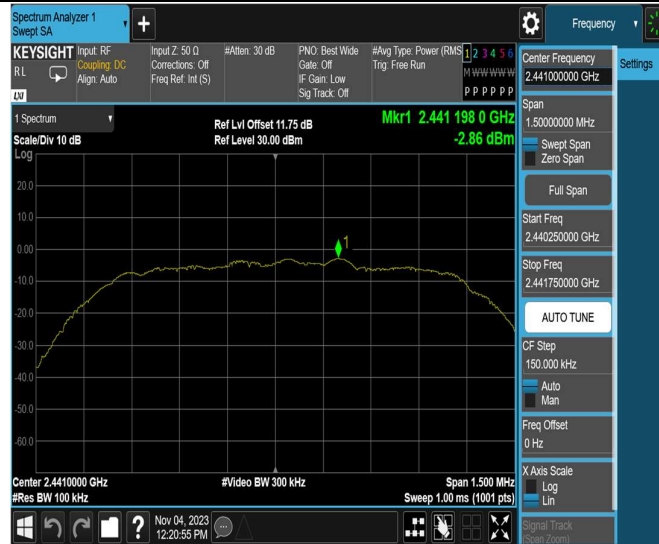
3DH5_Ant1_2402_30~1000



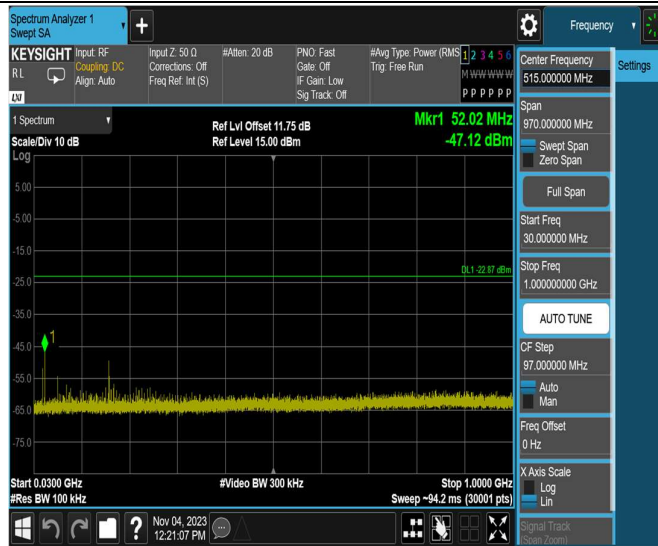
3DH5_Ant1_2402_1000~26500



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	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]
DH5	Ant1	2402	2.90	3.75	77.33
		2441	2.90	3.75	77.33
		2480	2.90	3.76	77.13
2DH5	Ant1	2402	2.91	3.76	77.39
		2441	2.91	3.75	77.60
		2480	2.91	3.76	77.39
3DH5	Ant1	2402	2.90	3.74	77.54
		2441	2.91	3.75	77.60
		2480	2.90	3.75	77.33