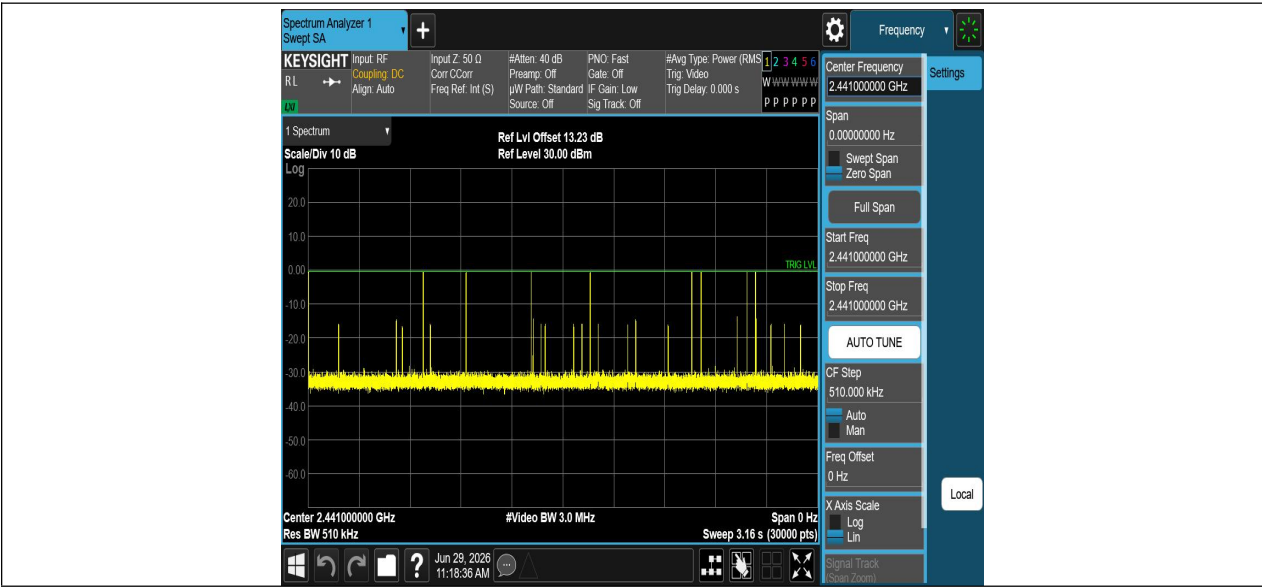




14. Conducted Spurious Emission

14.1. Block diagram of test setup

Same as section 8.1

14.2. Limits

CFR 47 FCC Part15 (15.247), Subpart C ISED RSS-247 ISSUE 4		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d) ISED RSS-247 5.5	Conducted Spurious Emission	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

14.3. Test Procedure

Please refer to the ANSI C63.10-2020+Cor.1-2023+C63.10a-2024 section 6.10.

For Band edge use the following settings:

Detector	Peak
RBW	100 kHz
VBW	300 kHz
Span	wide enough to fully capture the emission being measured
Trace	Max hold
Sweep time	Auto couple.

For Spurious Emission use the following settings:

Detector	Peak
RBW	100 kHz
VBW	300 kHz
Span	wide enough to fully capture the emission being measured
Trace	Max hold
Sweep time	Auto couple.

Use the peak marker function to determine the maximum amplitude level.

14.4. Results

Band edge:

Test Mode	Ant.	Ch Name	Freq. (MHz)	Ref Level (dBm)	Result (dBm)	Limit (dBm)	Verdict
DH5	Ant1	Low	2402	7.12	-46.49	≤-12.88	PASS
		High	2480	7.84	-46.45	≤-12.16	PASS
		Low	Hop_2402	-2.67	-46	≤-22.67	PASS
		High	Hop_2480	-0.55	-45.75	≤-20.55	PASS
2DH5	Ant1	Low	2402	5.81	-45.78	≤-14.19	PASS
		High	2480	7.42	-46.31	≤-12.58	PASS
		Low	Hop_2402	-4.07	-45.97	≤-24.07	PASS
		High	Hop_2480	-0.08	-45.18	≤-20.08	PASS
3DH5	Ant1	Low	2402	5.34	-46.81	≤-14.66	PASS
		High	2480	8.36	-46.58	≤-11.64	PASS
		Low	Hop_2402	-3.17	-46.1	≤-23.17	PASS
		High	Hop_2480	-1.43	-45.6	≤-21.43	PASS

Note: Offset=cable loss + Test system insertion loss

Spurious Emission:

Test Mode	Ant.	Freq. (MHz)	Freq. Range (MHz)	Ref Level (dBm)	Result (dBm)	Limit (dBm)	Verdict
DH5	Ant1	2402	Reference	6.62	6.62	---	PASS
			30~1000	6.62	-59.9	≤ -13.38	PASS
			1000~26500	6.62	-39.9	≤ -13.38	PASS
		2441	Reference	7.43	7.43	---	PASS
			30~1000	7.43	-59.75	≤ -12.57	PASS
			1000~26500	7.43	-39.28	≤ -12.57	PASS
		2480	Reference	7.98	7.98	---	PASS
			30~1000	7.98	-59.95	≤ -12.02	PASS
			1000~26500	7.98	-40.36	≤ -12.02	PASS
2DH5	Ant1	2402	Reference	6.17	6.17	---	PASS
			30~1000	6.17	-59.87	≤ -13.83	PASS
			1000~26500	6.17	-39.99	≤ -13.83	PASS
		2441	Reference	6.83	6.83	---	PASS
			30~1000	6.83	-60.06	≤ -13.17	PASS
			1000~26500	6.83	-40.24	≤ -13.17	PASS
		2480	Reference	6.06	6.06	---	PASS
			30~1000	6.06	-60.38	≤ -13.94	PASS
			1000~26500	6.06	-39.5	≤ -13.94	PASS
3DH5	Ant1	2402	Reference	6.24	6.24	---	PASS
			30~1000	6.24	-60.51	≤ -13.76	PASS
			1000~26500	6.24	-40.52	≤ -13.76	PASS
		2441	Reference	6.46	6.46	---	PASS
			30~1000	6.46	-60.39	≤ -13.54	PASS
			1000~26500	6.46	-40.37	≤ -13.54	PASS
		2480	Reference	6.97	6.97	---	PASS
			30~1000	6.97	-59.64	≤ -13.03	PASS
			1000~26500	6.97	-39.59	≤ -13.03	PASS

Note: Offset=cable loss + Test system insertion loss

14.5. Original test data

Band edge:









Spurious Emission:

