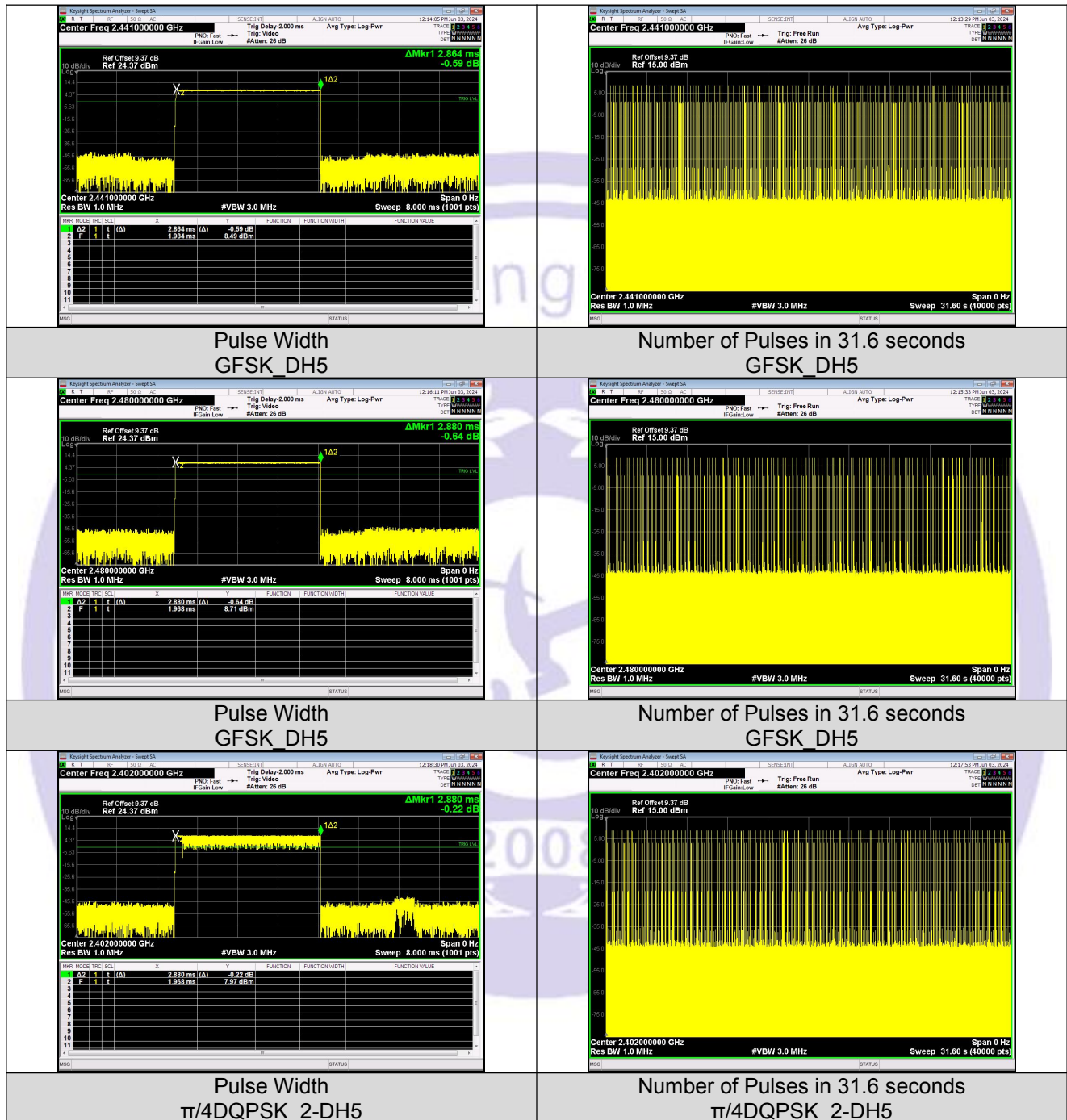
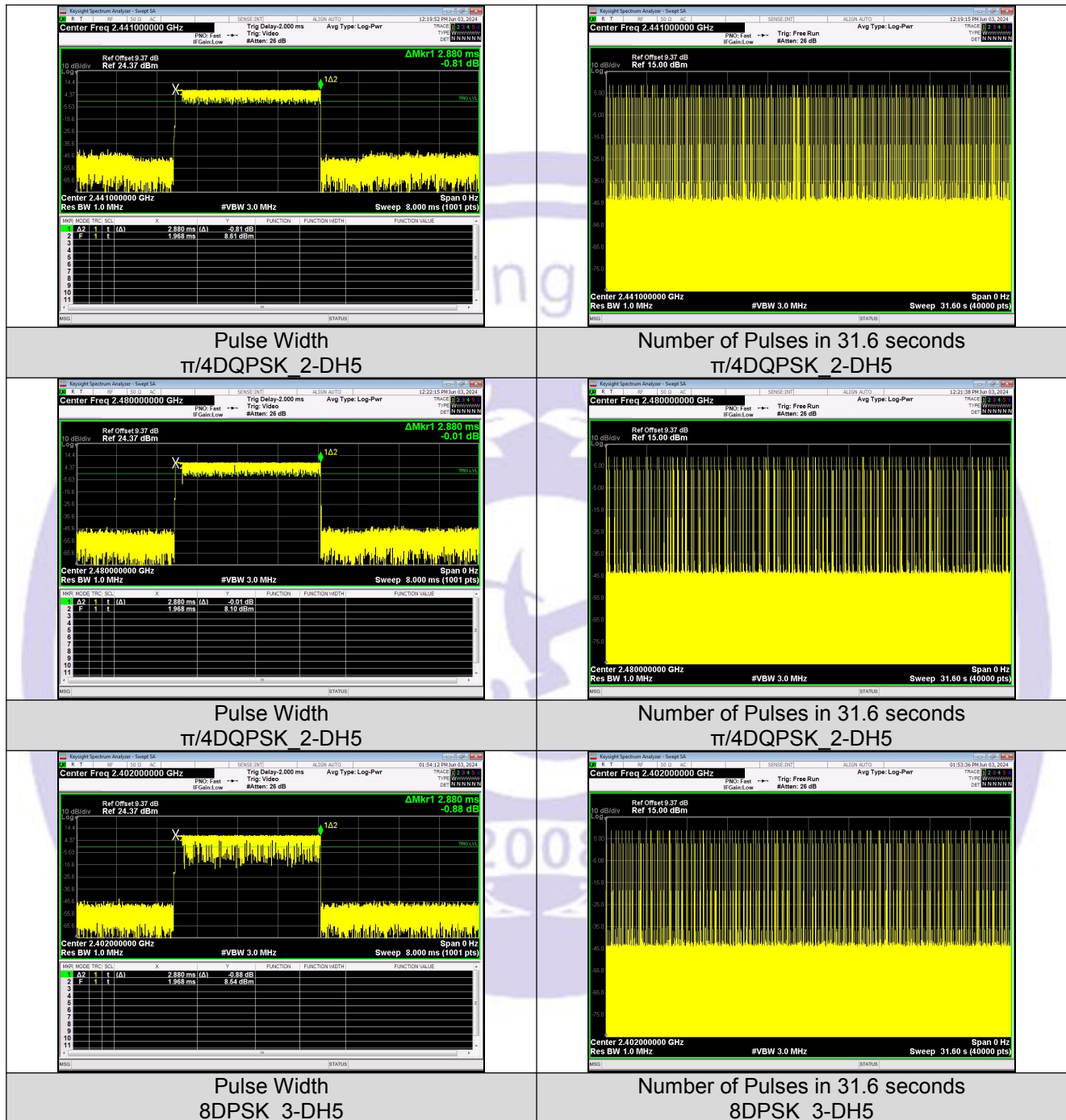
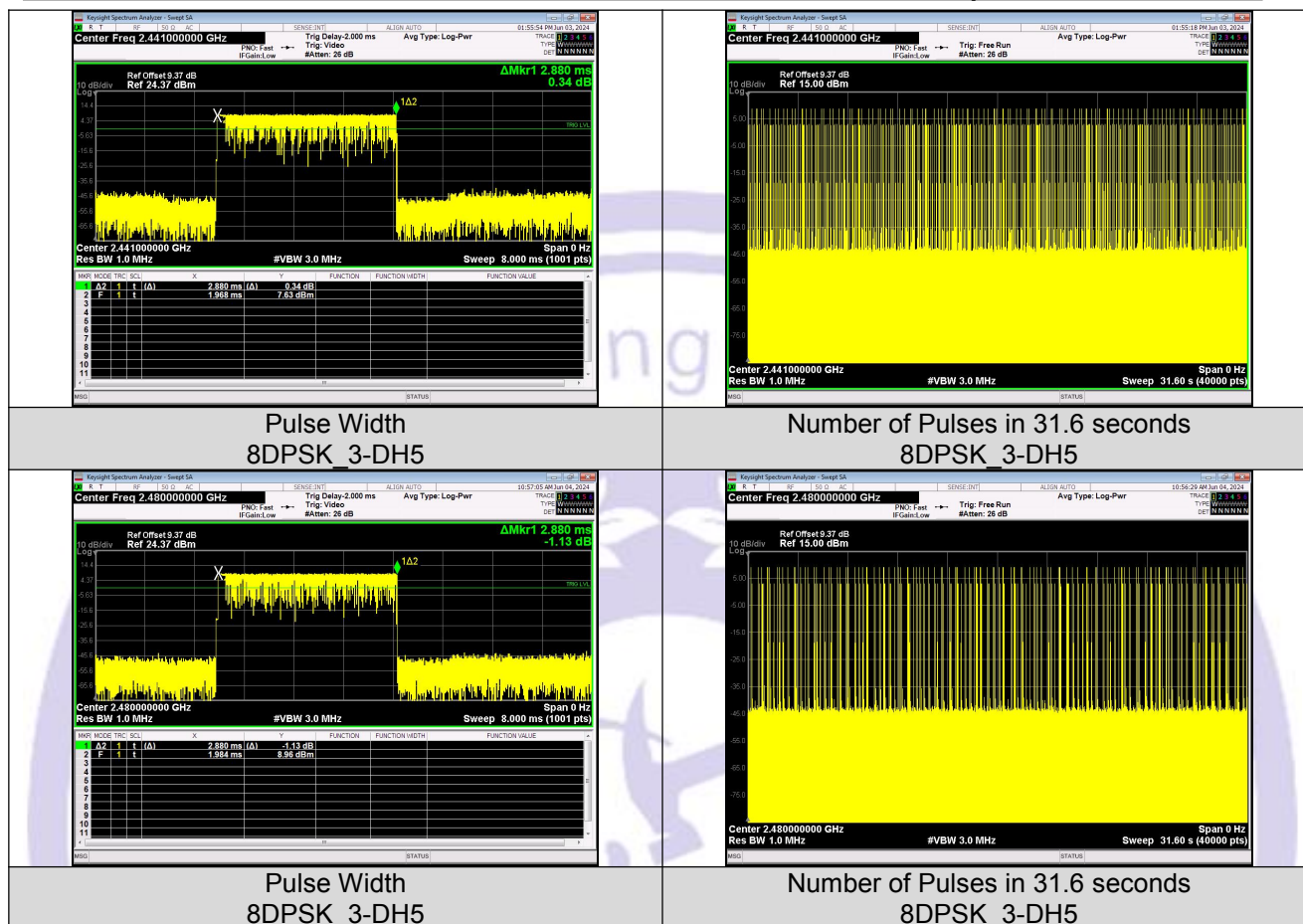






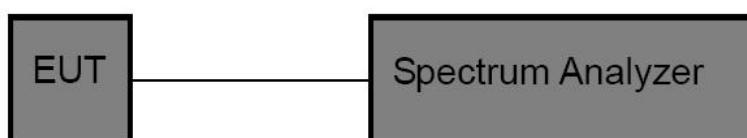


13 100kHz Bandwidth of Frequency Band Edge Requirement

13.1 Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (d) & RSS-247 5.5
Test Limit	in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

13.2 Test Setup



13.3 Test Procedure

The EUT must have its hopping/Non-hopping function enabled. Using the following spectrum analyzer setting:

1. Set the RBW = 100kHz.
2. Set the VBW = 300kHz.
3. Sweep time = auto couple.
4. Detector function = peak.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.

13.4 Test Data

Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH1	0	2400.00	-44.719	-11.67	-33.049	PASS
			21572.2	-47.209	-11.67	-35.539	PASS
		39	21597.1	-47.092	-11.81	-35.282	PASS
		78	2483.50	-49.507	-11.65	-37.857	PASS
			21570.9	-47.964	-11.65	-36.314	PASS
$\pi/4$ DQPSK	2-DH1	0	2400.00	-43.774	-11.65	-32.124	PASS
			21577.2	-47.510	-11.65	-35.860	PASS
		39	21567.2	-47.897	-11.76	-36.137	PASS
		78	2483.50	-48.743	-11.58	-37.163	PASS
			21574.7	-53.306	-11.58	-41.726	PASS
8DPSK	3-DH1	0	2400.00	-42.024	-11.58	-30.444	PASS
			21595.3	-47.214	-11.58	-35.634	PASS
		39	21585.9	-47.066	-11.69	-35.376	PASS
		78	2483.50	-49.704	-11.59	-38.114	PASS
			21147.0	-46.618	-11.59	-35.028	PASS

Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH1	Hopping	2400.00	-46.412	-11.85	-34.562	PASS
			2483.50	-51.431	-11.57	-39.861	PASS
π/4DQPSK	2-DH1		2400.00	-43.957	-11.91	-32.047	PASS
			2483.50	-51.559	-11.58	-39.979	PASS
8DPSK	3-DH1		2400.00	-41.823	-11.88	-29.943	PASS
			2483.50	-51.955	-11.55	-40.405	PASS

Test Graphs

