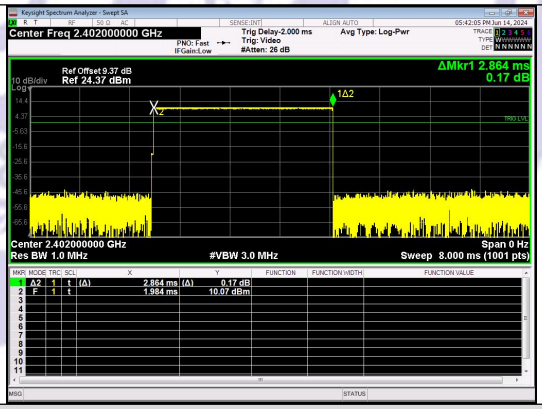
12.4 Test Data

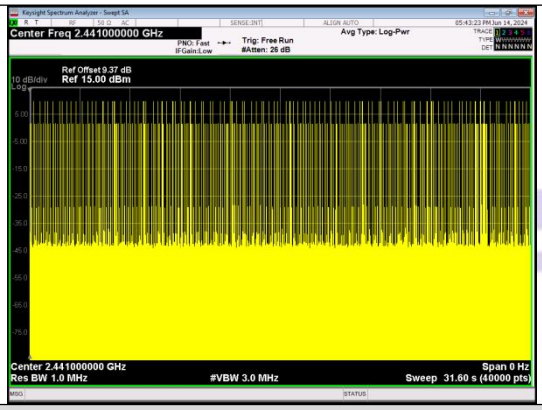
Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH5	CH0 (2402MHz)	2.864	106	303.58	< 400	PASS
	DH5	CH39 (2441MHz)	2.864	106	303.58		PASS
	DH5	CH78 (2480MHz)	2.880	107	308.16		PASS
π/4DQPSK	2-DH5	CH0 (2402MHz)	2.880	107	308.16		PASS
	2-DH5	CH39 (2441MHz)	2.880	107	308.16		PASS
	2-DH5	CH78 (2480MHz)	2.880	107	308.16		PASS
8DPSK	3-DH5	CH0 (2402MHz)	2.880	106	305.28		PASS
	3-DH5	CH39 (2441MHz)	2.880	106	305.28		PASS
	3-DH5	CH78 (2480MHz)	2.880	106	305.28		PASS

Test Plots

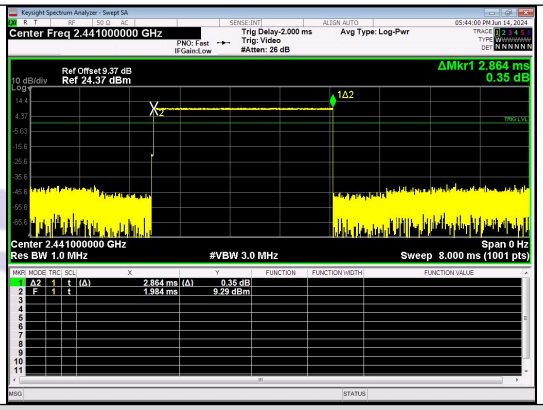
Number of Pulses in 31.6 seconds
GFSK_DH5



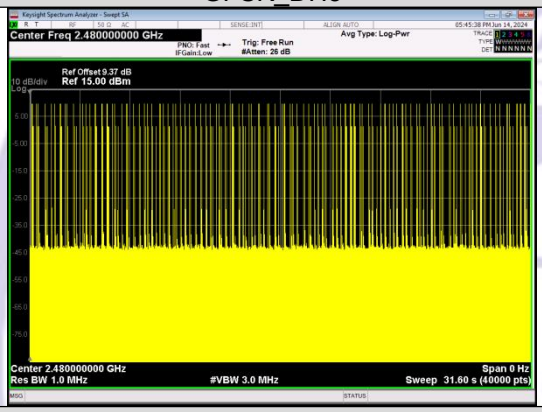
Pulse Width
GFSK_DH5



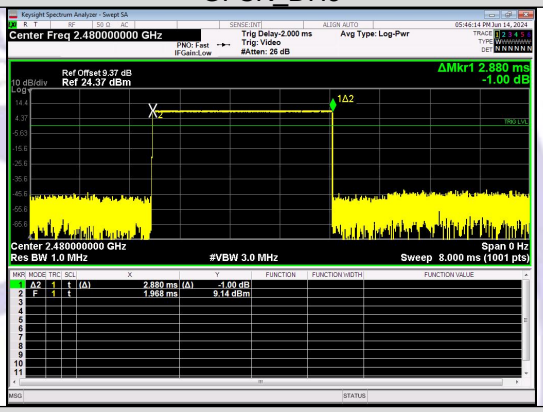
Number of Pulses in 31.6 seconds
GFSK_DH5



Pulse Width
GFSK_DH5

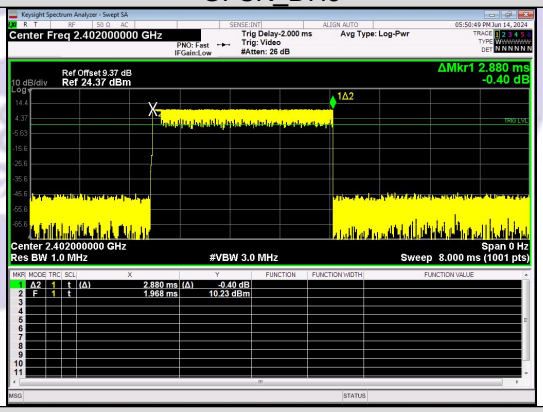


Number of Pulses in 31.6 seconds
GFSK_DH5



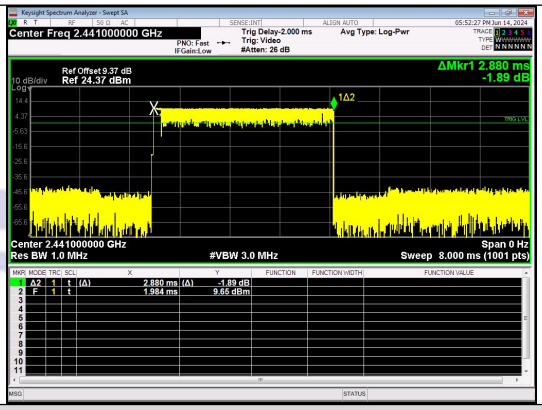
Pulse Width
GFSK_DH5

Number of Pulses in 31.6 seconds
π/4DQPSK_2-DH5



Pulse Width
π/4DQPSK_2-DH5

Number of Pulses in 31.6 seconds
π/4DQPSK_2-DH5



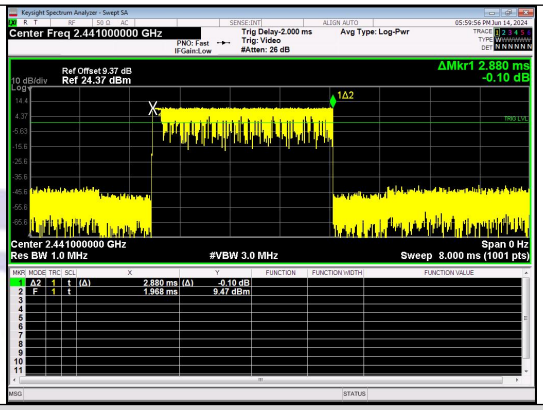
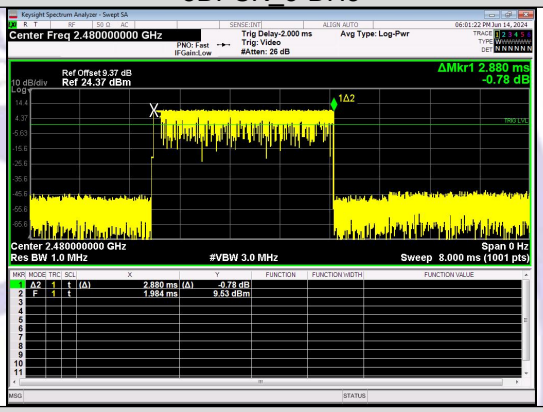
Pulse Width
π/4DQPSK_2-DH5

Number of Pulses in 31.6 seconds
π/4DQPSK_2-DH5

Pulse Width
π/4DQPSK_2-DH5

Number of Pulses in 31.6 seconds
8DPSK_3-DH5

Pulse Width
8DPSK_3-DH5

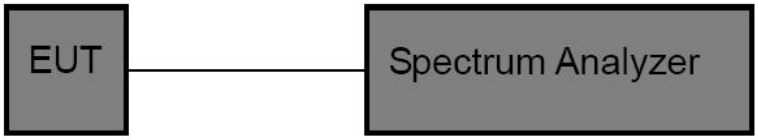
	
Number of Pulses in 31.6 seconds 8DPSK_3-DH5	Pulse Width 8DPSK_3-DH5
	
Number of Pulses in 31.6 seconds 8DPSK_3-DH5	Pulse Width 8DPSK_3-DH5

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 in 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

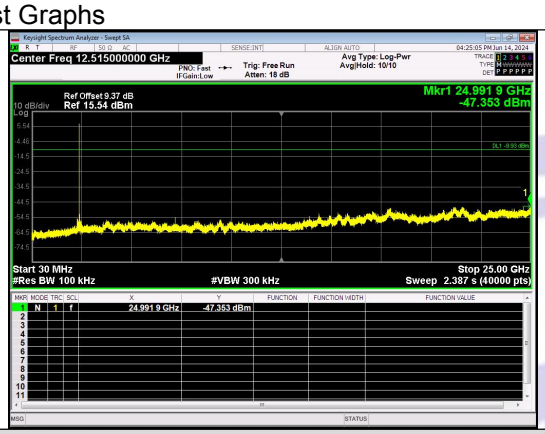
Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH1	0	2400.00	-45.916	-9.93	-35.986	PASS
			24991.9	-47.353	-9.93	-37.423	PASS
		39	17951.4	-47.139	-10.47	-36.669	PASS
		78	2483.50	-48.568	-10.47	-38.098	PASS
			21211.3	-47.178	-10.47	-36.708	PASS
π/4DQPSK	2-DH1	0	2400.00	-39.349	-9.95	-29.399	PASS
			21141.4	-47.326	-9.95	-37.376	PASS
		39	21538.5	-47.130	-10.49	-36.640	PASS
		78	2483.50	-50.294	-10.47	-39.824	PASS
			21605.2	-47.114	-10.47	-36.644	PASS
8DPSK	3-DH1	0	2400.00	-41.871	-9.89	-31.981	PASS
			21153.9	-46.969	-9.89	-37.079	PASS
		39	21531.6	-46.891	-10.49	-36.401	PASS
		78	2483.50	-49.435	-10.42	-39.015	PASS
			21112.1	-47.734	-10.42	-37.314	PASS

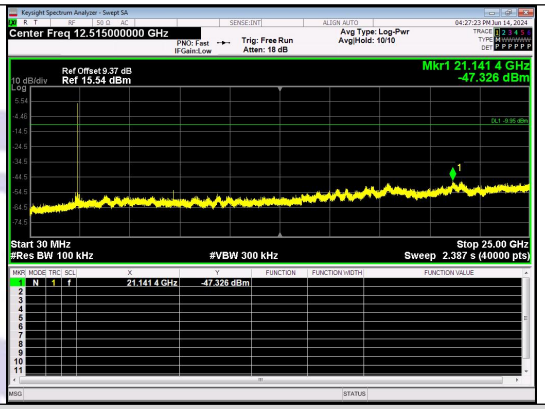
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH1	Hopping	2400.00	-45.943	-9.97	-35.973	PASS
			2483.50	-50.497	-10.57	-39.927	PASS
π/4DQPSK	2-DH1		2400.00	-40.485	-9.99	-30.495	PASS
			2483.50	-50.994	-10.58	-40.414	PASS
8DPSK	3-DH1		2400.00	-42.684	-9.9	-32.784	PASS
			2483.50	-49.091	-10.43	-38.661	PASS

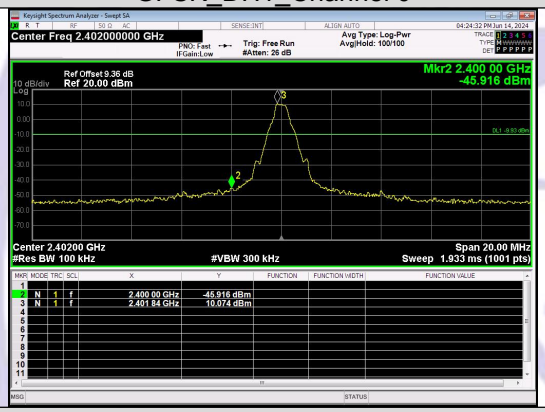
Test Graphs



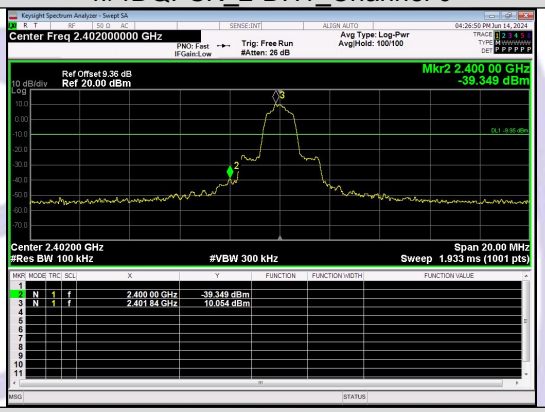
30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 0



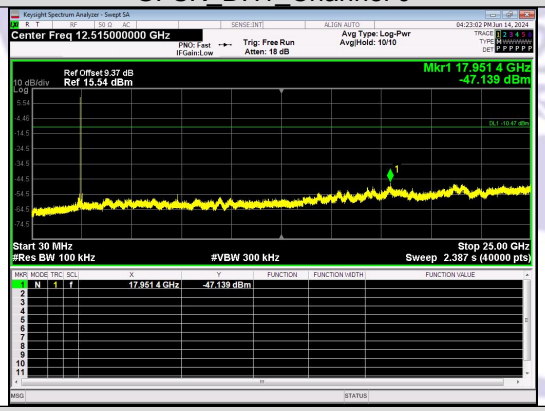
30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH1_Channel 0



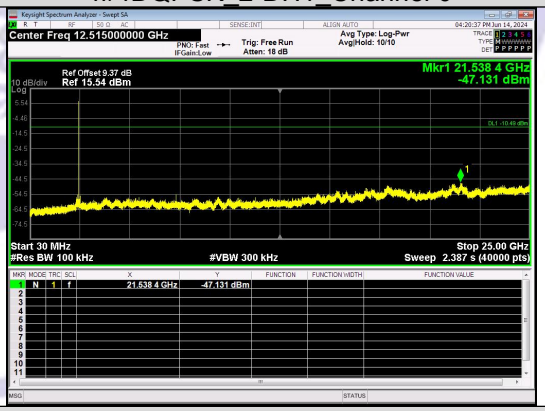
Out Of Band Emission
GFSK_DH1_Channel 0



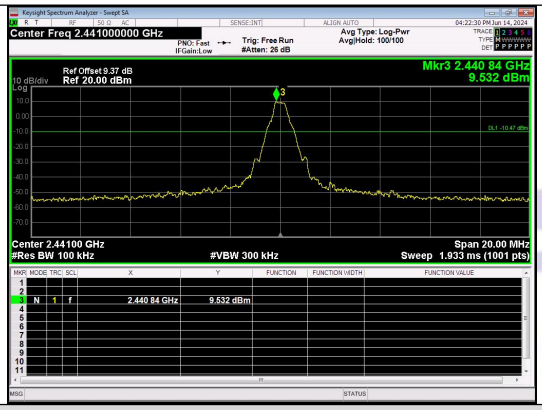
Out Of Band Emission
π/4DQPSK_2-DH1_Channel 0



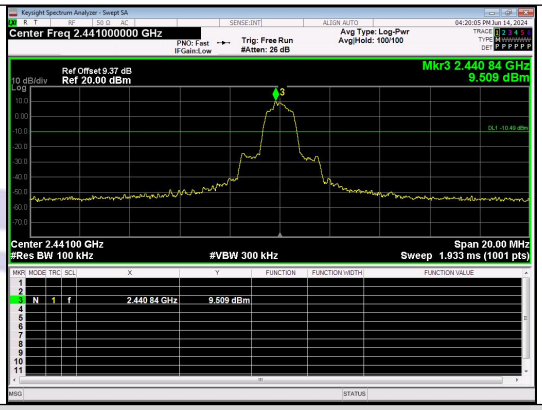
30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 39



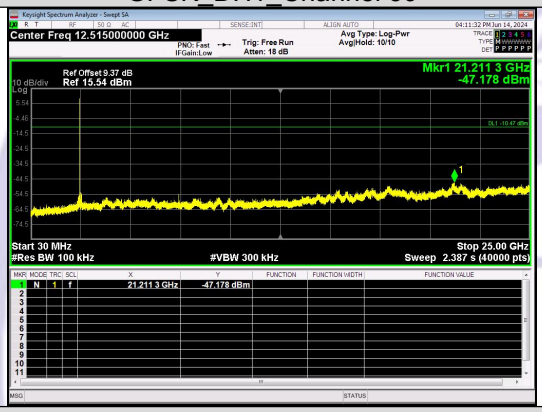
30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH1_Channel 39



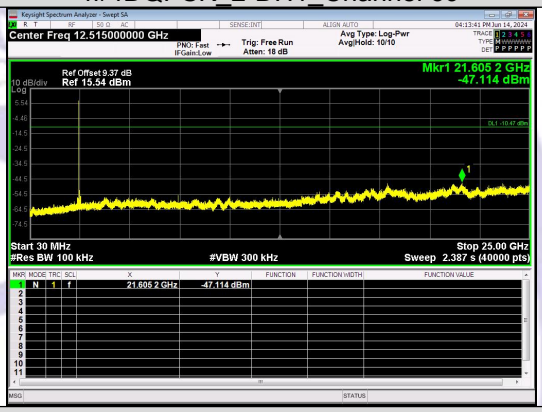
Out Of Band Emission
GFSK_DH1_Channel 39



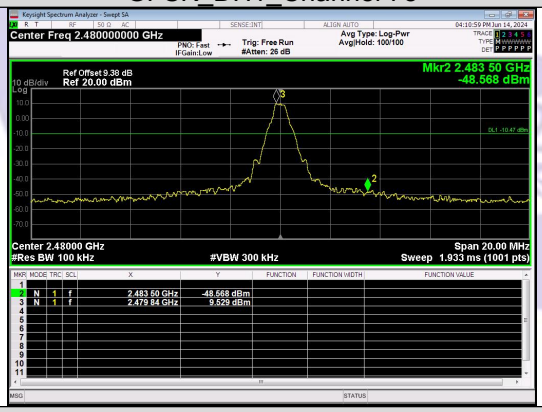
Out Of Band Emission
π/4DQPSK_2-DH1_Channel 39



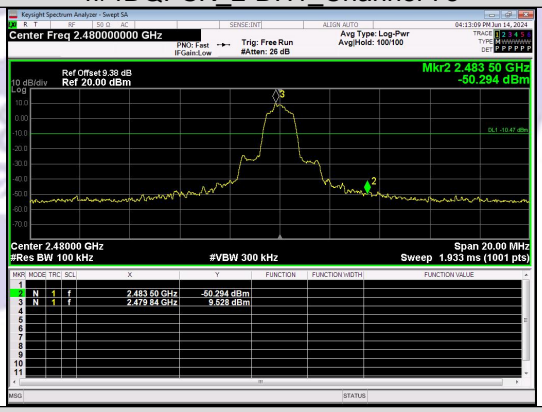
30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 78



30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH1_Channel 78



Out Of Band Emission
GFSK_DH1_Channel 78



Out Of Band Emission
π/4DQPSK_2-DH1_Channel 78

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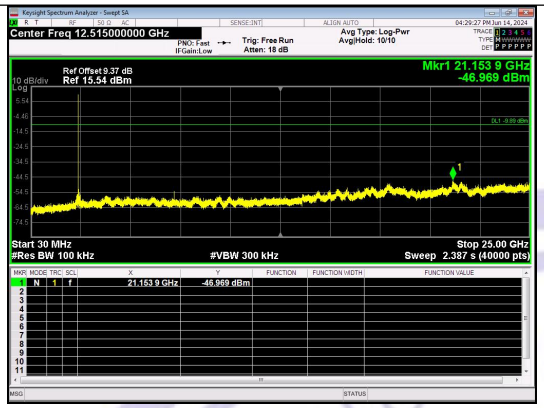
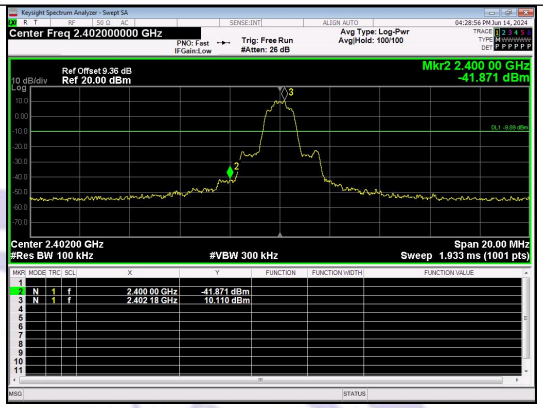
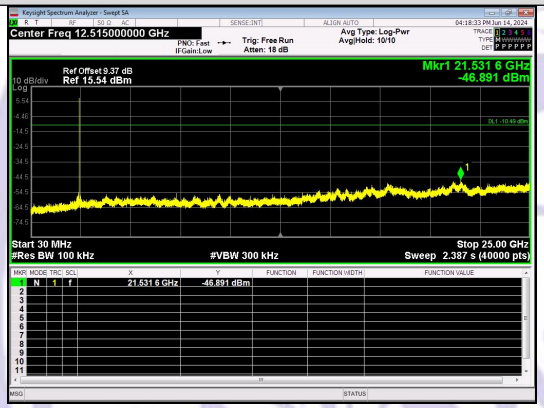


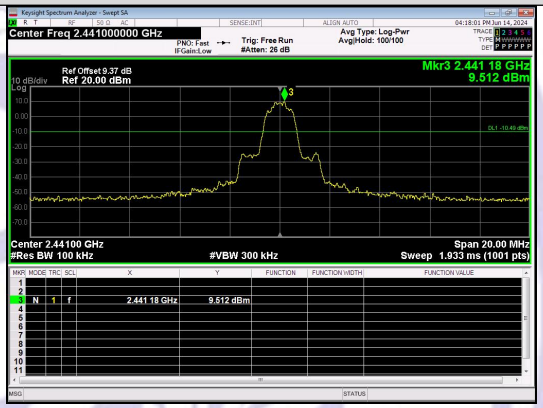
30.0 MHz - 25000.0 MHz
8DPSK_3-DH1_Channel 0



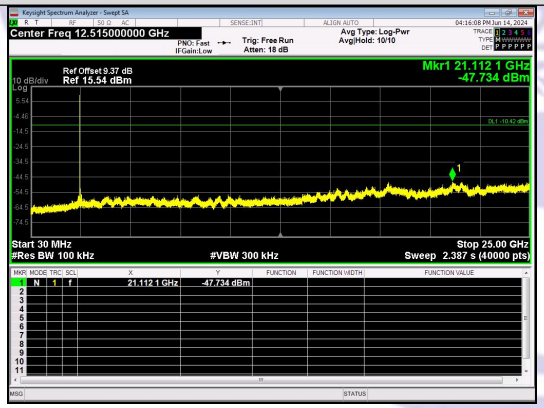
Out Of Band Emission
8DPSK_3-DH1_Channel 0



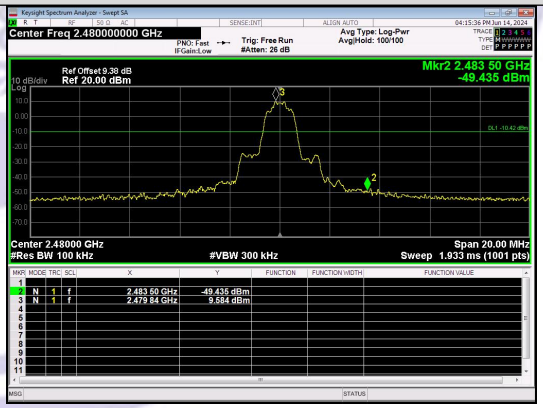
30.0 MHz - 25000.0 MHz
8DPSK_3-DH1_Channel 39



Out Of Band Emission
8DPSK_3-DH1_Channel 39



30.0 MHz - 25000.0 MHz
8DPSK_3-DH1_Channel 78



Out Of Band Emission
8DPSK_3-DH1_Channel 78

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14 Antenna Requirement

14.1 Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c) & RSS-Gen 6.8
Requirement	1) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 2) 15.247(c) (1)(i) requirement: Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

14.2 Antenna Connected Construction

The antenna is PCB Antenna which permanently attached, and the best case gain of the antenna is 1.71dBi. It complies with the standard requirement.

15 APPENDIX I -- TEST SETUP PHOTOGRAPH

Please see the attachment for details.

16 APPENDIX II -- EUT PHOTOGRAPH

Please see the attachment for details.

---------- End of Report ----------