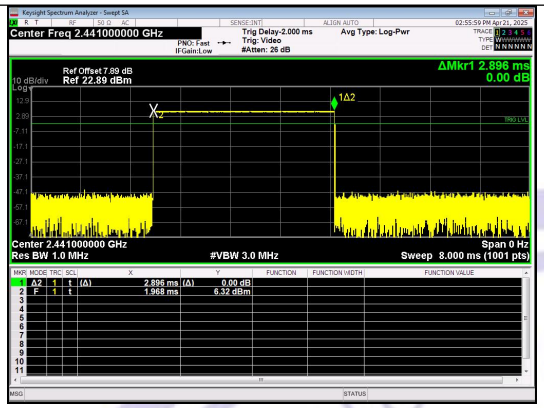
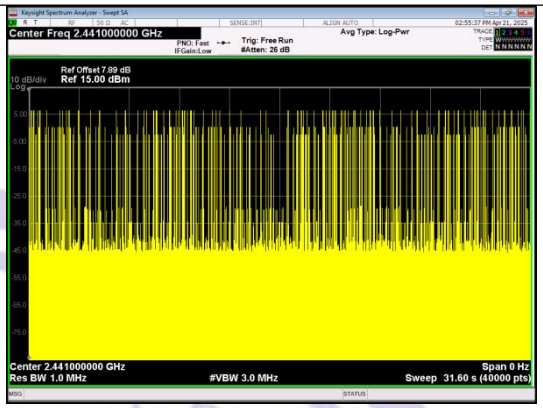
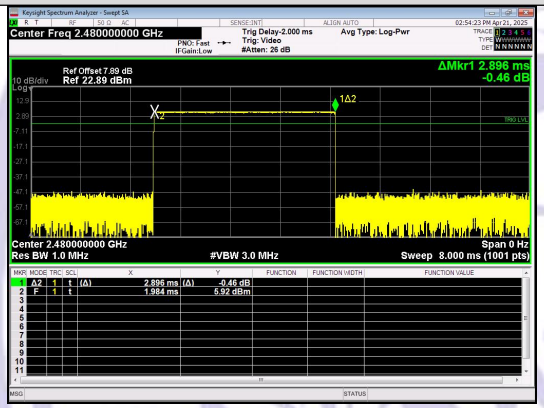


Pulse Width
GFSK_DH5

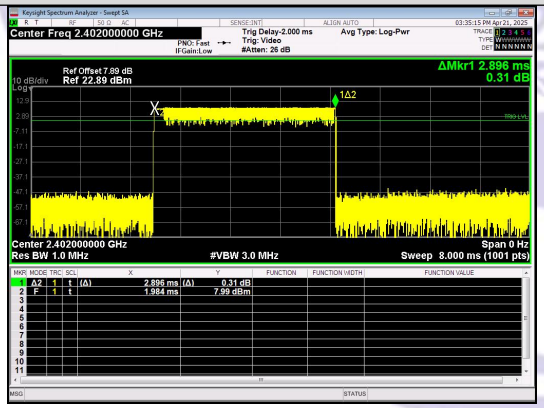


Number of Pulses in 31.6 seconds
GFSK_DH5



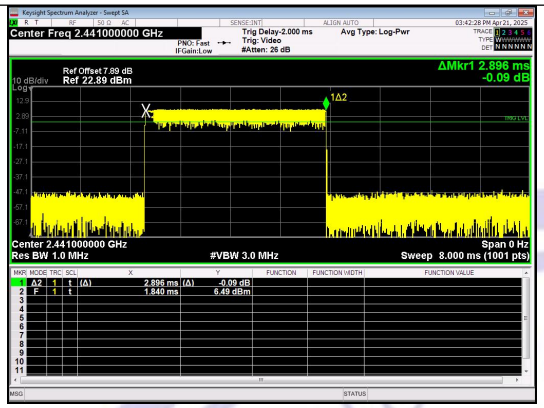
Pulse Width
GFSK_DH5

Number of Pulses in 31.6 seconds
GFSK_DH5



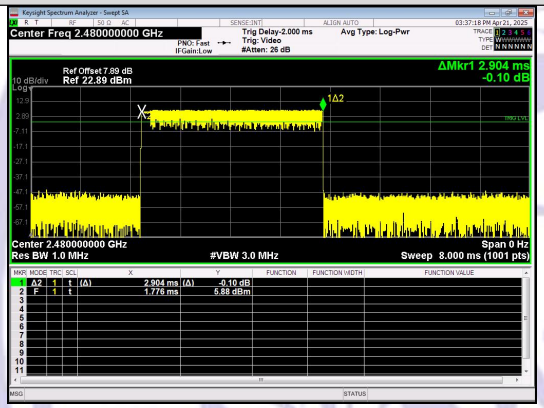
Pulse Width
π/4DQPSK_2-DH5

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



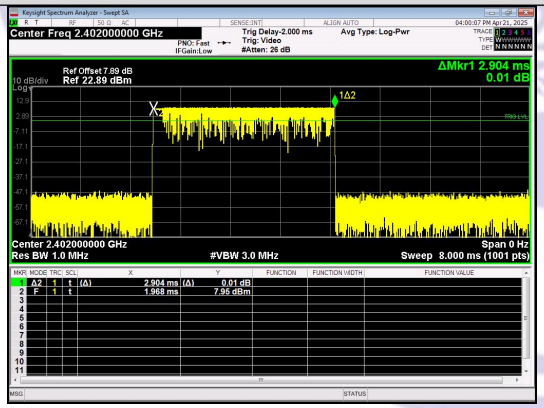
Pulse Width
π/4DQPSK_2-DH5

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



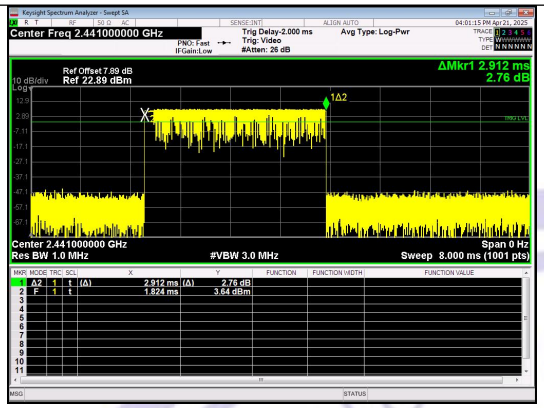
Pulse Width
π/4DQPSK_2-DH5

Number of Pulses in 31.6 seconds
π/4DQPSK_2-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

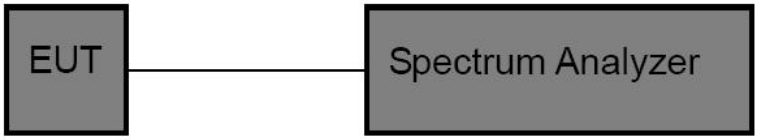
Number of Pulses in 31.6 seconds
8DPSK_3-DH5

13 100kHz Bandwidth of Frequency Band Edge Requirement

13.1 Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (d)
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.

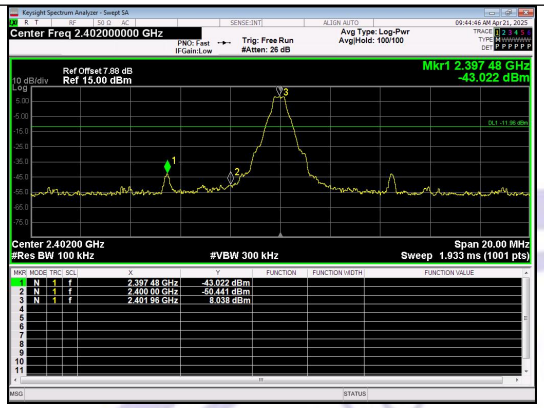
13.4 Test Data

Non-Hopping

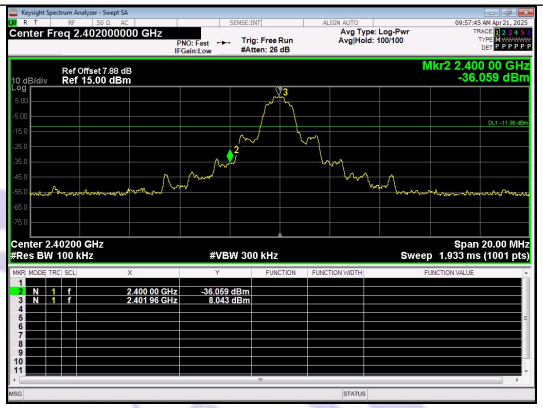
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH1	0	2397.48	-43.022	-11.96	-31.062	PASS
			2400.00	-50.441	-11.96	-38.481	PASS
		39	4803.80	-40.431	-11.96	-28.471	PASS
		78	4881.79	-40.487	-13.49	-26.997	PASS
			2483.50	-56.190	-13.9	-42.290	PASS
π/4DQPSK	2-DH1	0	4960.45	-44.430	-13.9	-30.530	PASS
			2400.00	-36.059	-11.96	-24.099	PASS
		39	4804.38	-39.806	-11.96	-27.846	PASS
		78	2392.85	-46.321	-13.5	-32.821	PASS
			2483.50	-46.535	-13.87	-32.665	PASS
8DPSK	3-DH1	0	4960.45	-44.293	-13.87	-30.423	PASS
			2400.00	-36.647	-11.84	-24.807	PASS
		39	4803.76	-38.614	-11.84	-26.774	PASS
		78	4882.42	-41.480	-13.45	-28.030	PASS
			2483.50	-48.014	-13.82	-34.194	PASS

Hopping

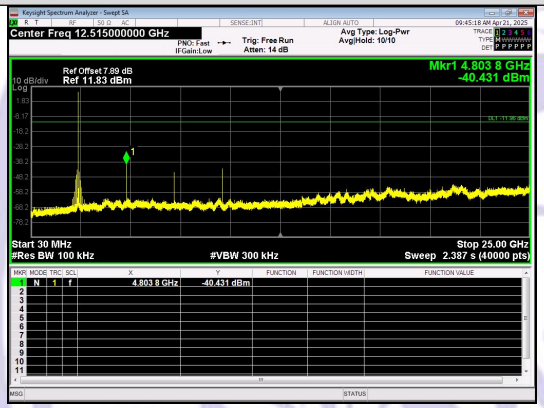
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH1	Hopping	2398.96	-41.690	-11.86	-29.830	PASS
			2400.00	-44.359	-11.86	-32.499	PASS
π/4DQPSK	2-DH1		2483.50	-55.192	-13.68	-41.512	PASS
			2400.00	-37.093	-11.85	-25.243	PASS
8DPSK	3-DH1		2483.50	-45.856	-13.64	-32.216	PASS
			2400.00	-36.424	-11.87	-24.554	PASS



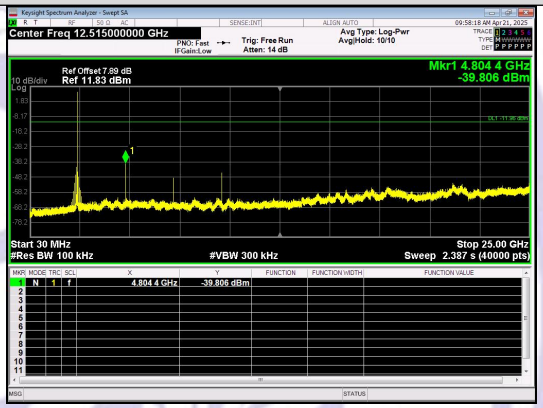
Out Of Band Emission
GFSK_DH1_Channel 0



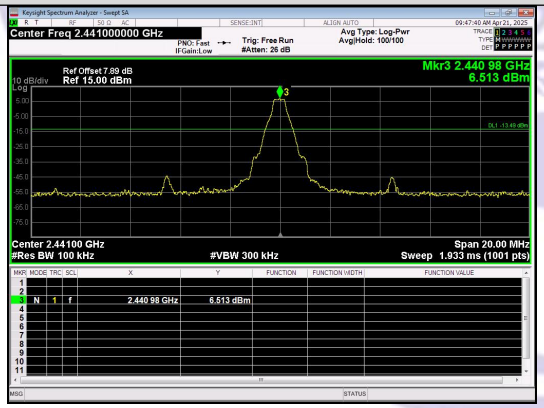
Out Of Band Emission
π/4DQPSK_2-DH1_Channel 0



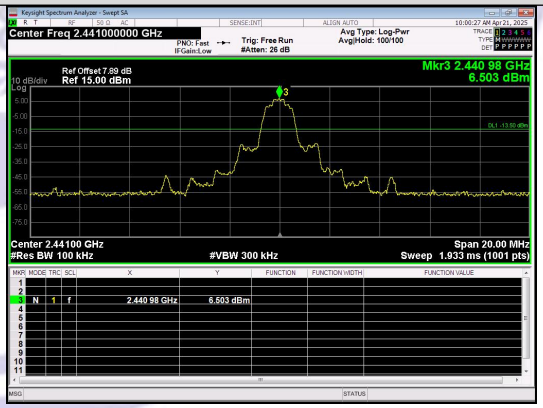
30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 0



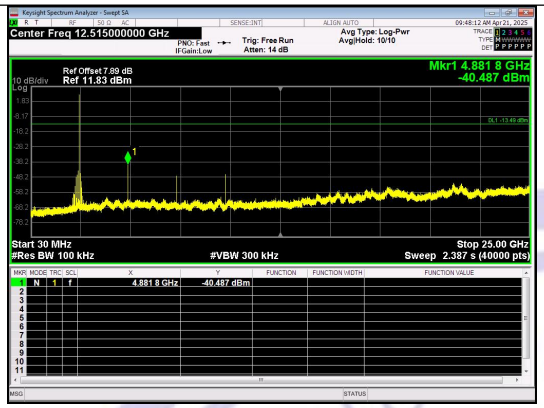
30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH1_Channel 0



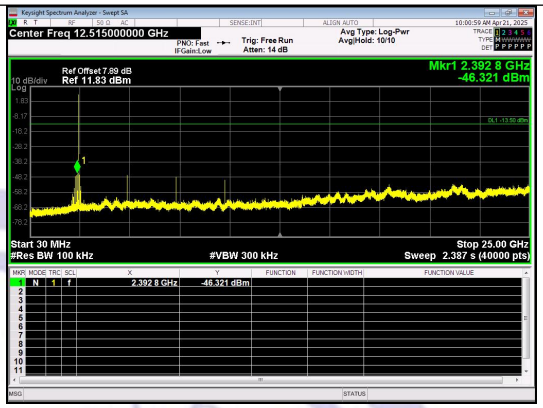
Out Of Band Emission
GFSK_DH1_Channel 39



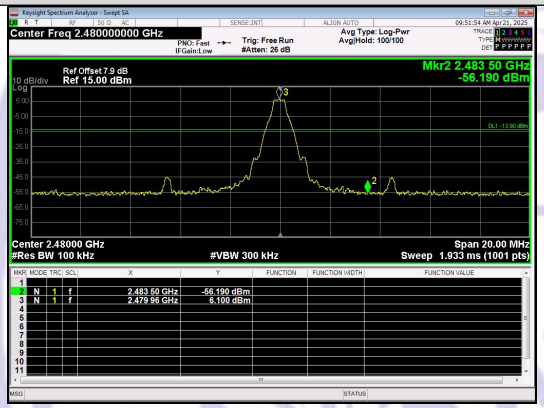
Out Of Band Emission
π/4DQPSK_2-DH1_Channel 39



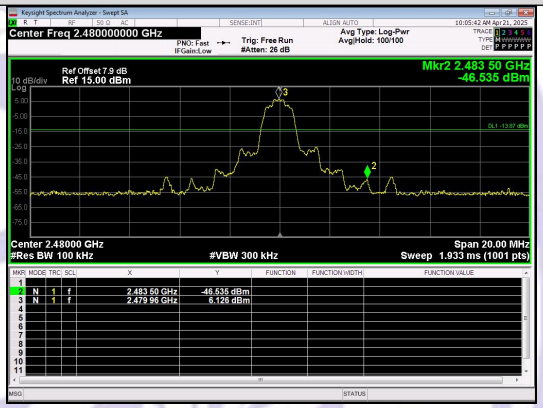
30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 39



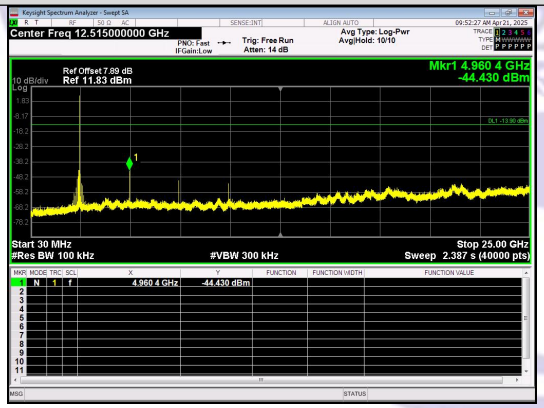
30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH1_Channel 39



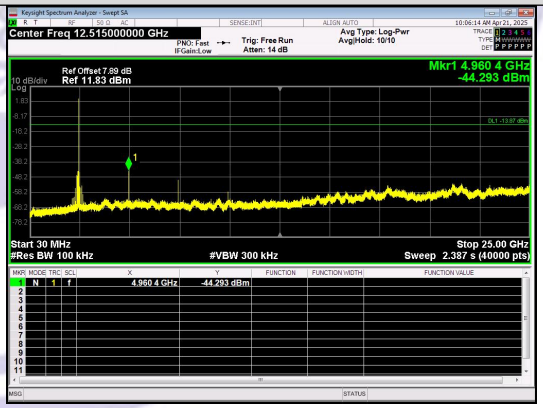
Out Of Band Emission
GFSK_DH1_Channel 78



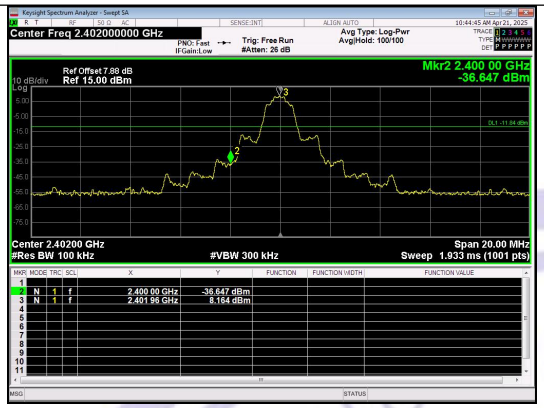
Out Of Band Emission
π/4DQPSK_2-DH1_Channel 78



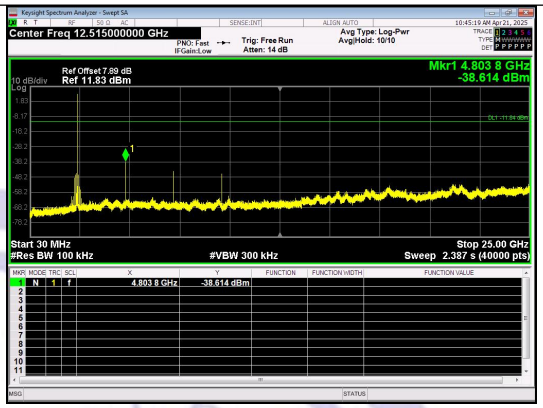
30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 78



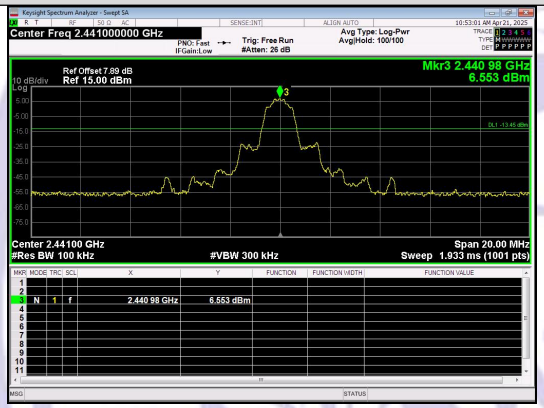
30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH1_Channel 78



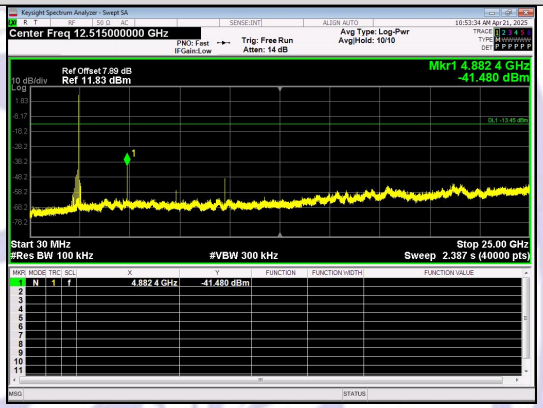
Out Of Band Emission
8DPSK_3-DH1_Channel 0



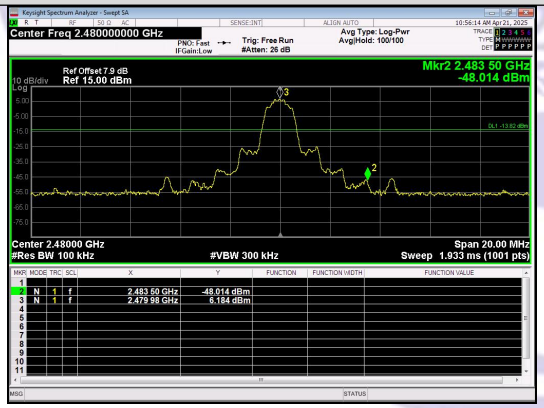
30.0 MHz - 25000.0 MHz
8DPSK_3-DH1_Channel 0



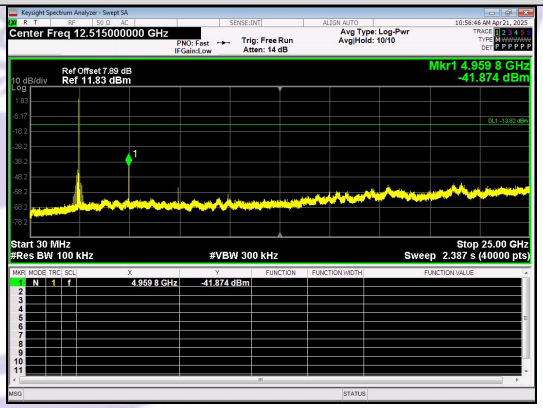
Out Of Band Emission
8DPSK_3-DH1_Channel 39



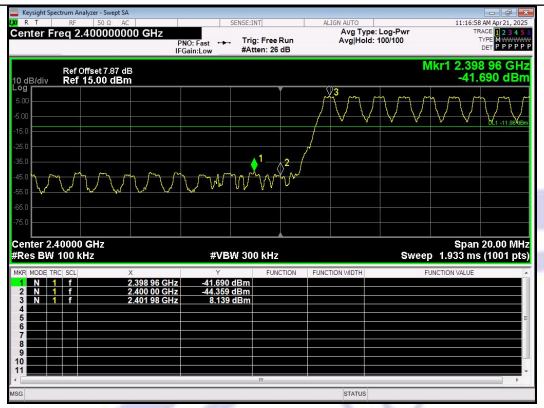
30.0 MHz - 25000.0 MHz
8DPSK_3-DH1_Channel 39



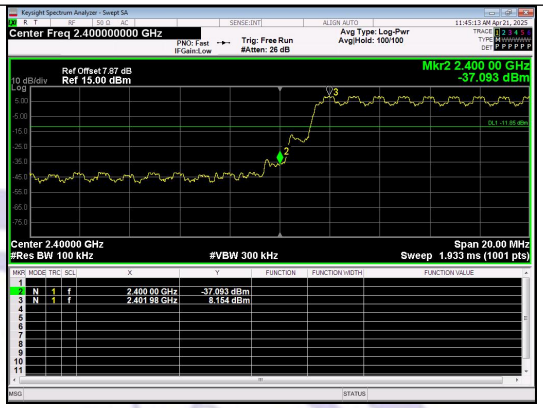
Out Of Band Emission
8DPSK_3-DH1_Channel 78



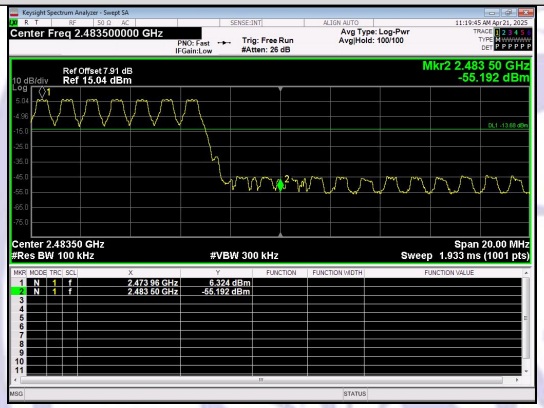
30.0 MHz - 25000.0 MHz
8DPSK_3-DH1_Channel 78



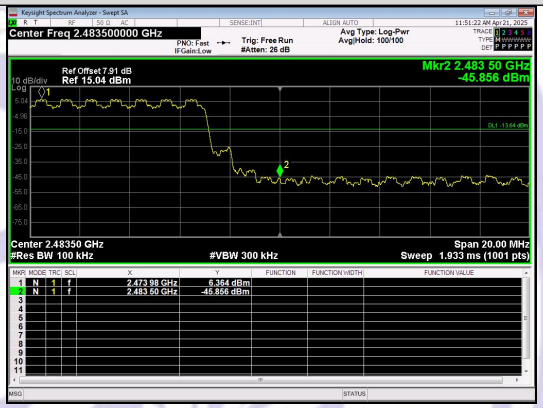
Out Of Band Emission(Left)
GFSK_DH1_Channel Hopping



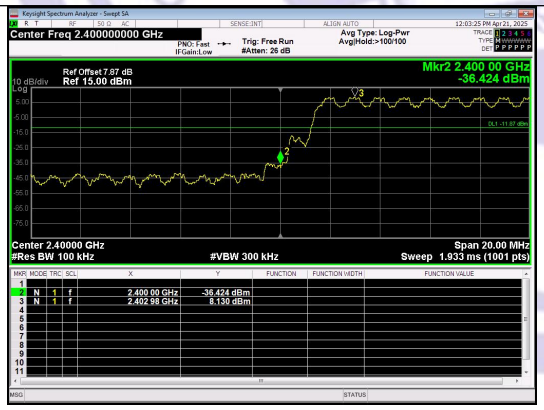
Out Of Band Emission(Left)
π/4DQPSK_2-DH1_Channel Hopping



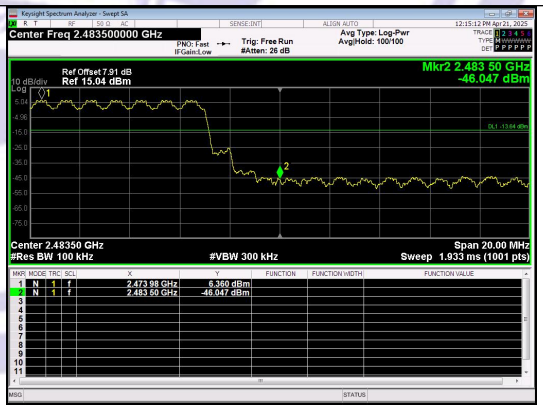
Out Of Band Emission(Right)
GFSK_DH1_Channel Hopping



Out Of Band Emission(Right)
π/4DQPSK_2-DH1_Channel Hopping



Out Of Band Emission(Left)
8DPSK_3-DH1_Channel Hopping



Out Of Band Emission(Right)
8DPSK_3-DH1_Channel Hopping

14 Antenna Requirement

14.1 Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
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 EUT antenna is an External antenna, and its antenna gain is 2.5dBi, which meets the standard requirements.

15 APPENDIX I -- TEST SETUP PHOTOGRAPH

Please see the attachment for details.

Shenzhen NCT Testing Technology Co., Ltd.
2008

16 APPENDIX II -- EUT PHOTOGRAPH

Please see the attachment for details.

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