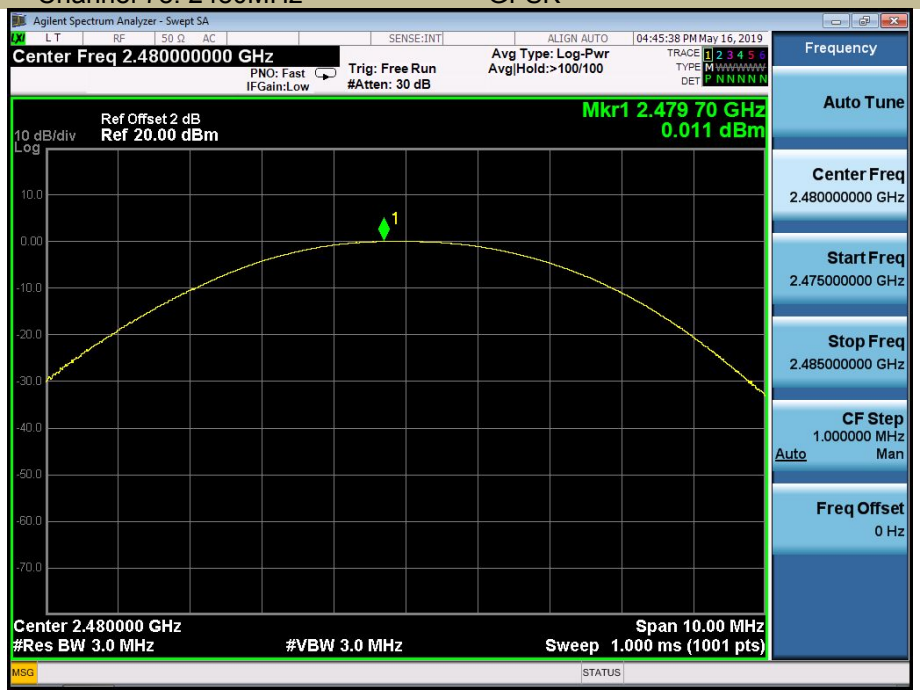
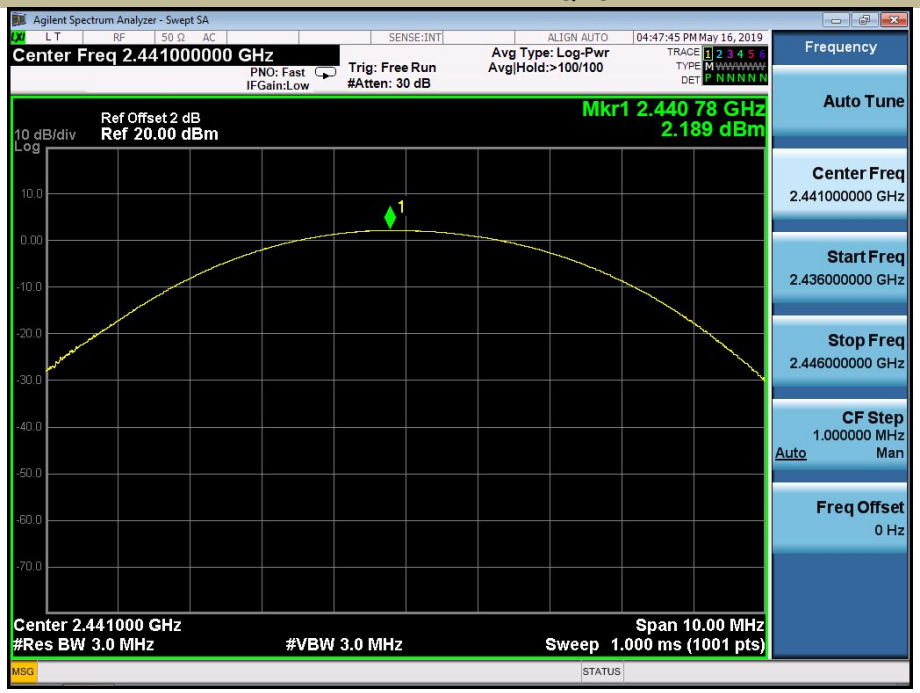
Test Model	Maximum Peak Conducted Output Power Channel 78: 2480MHz GFSK

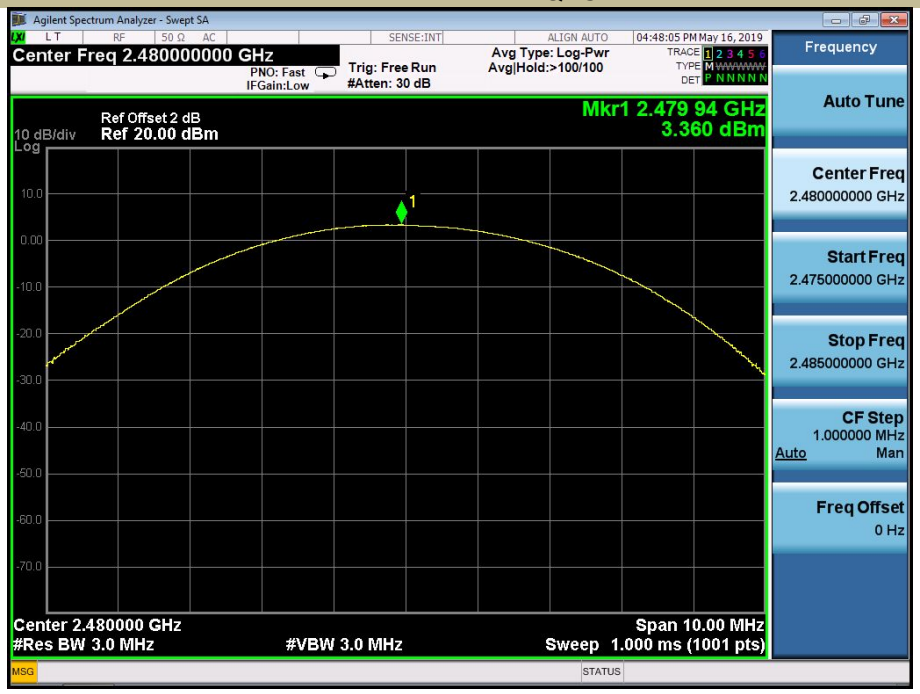


Test Model	Maximum Peak Conducted Output Power Channel 0: 2402MHz π /4DQPSK

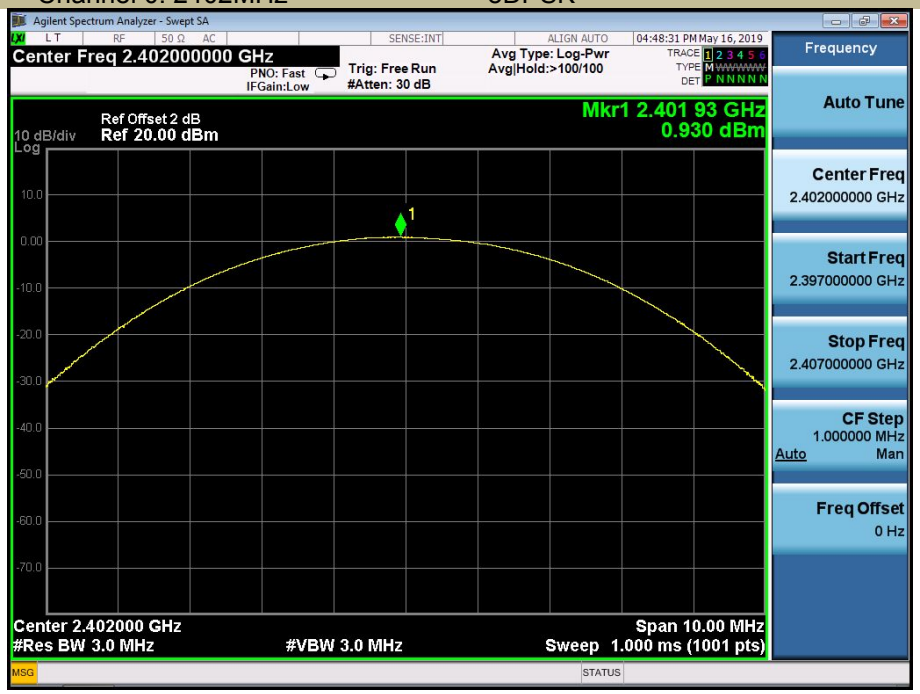
Test Model	Maximum Peak Conducted Output Power Channel 39: 2441MHz π /4DQPSK



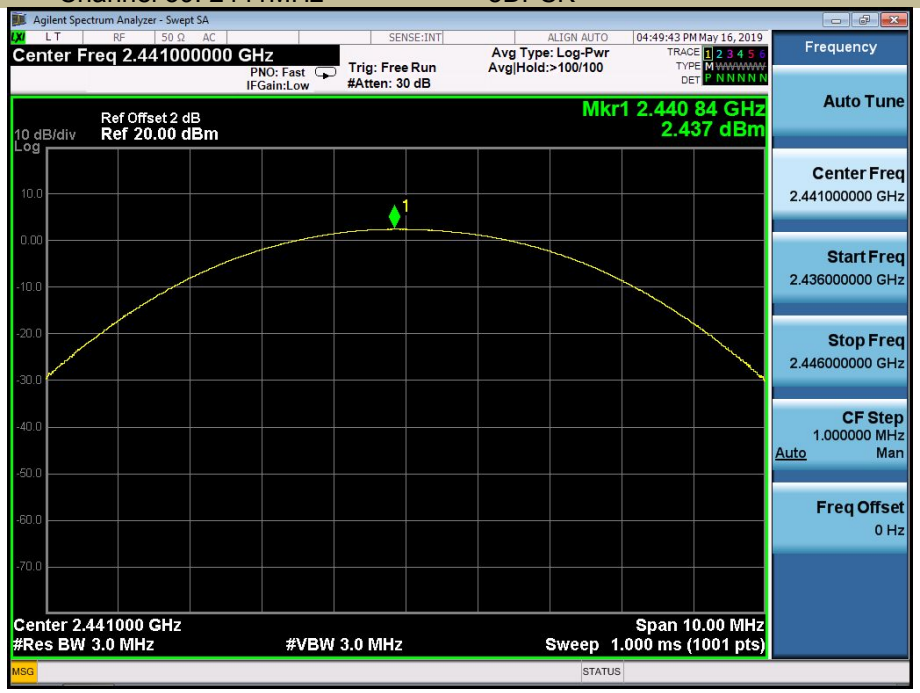
Test Model	Maximum Peak Conducted Output Power Channel 78: 2480MHz π /4DQPSK



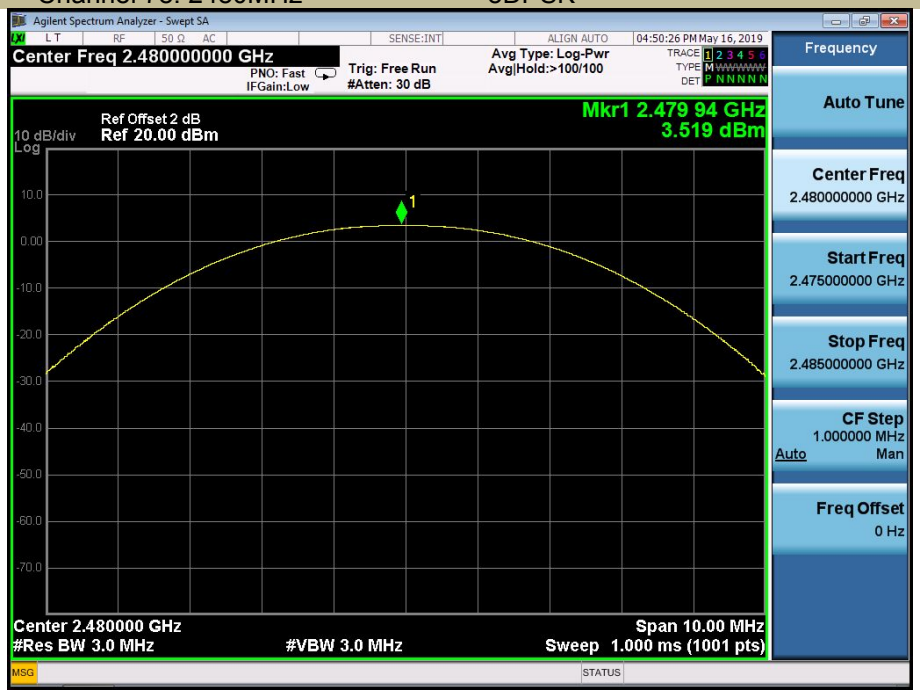
Test Model	Maximum Peak Conducted Output Power Channel 0: 2402MHz 8DPSK



Test Model	Maximum Peak Conducted Output Power Channel 39: 2441MHz 8DPSK



Test Model	Maximum Peak Conducted Output Power Channel 78: 2480MHz 8DPSK



9.6 CONDUCTED SUPRIOUS EMISSION

9.6.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 MEAS GUIDANCE v05r02

9.6.2 Conformance Limit

According to FCC Part 15.247(d):
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted, provided the transmitter demonstrates compliance with the peak conducted power limits.

9.6.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

9.6.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

- **Reference level measurement**

Establish a reference level by using the following procedure:
Set instrument center frequency to DSS channel center frequency.
Set Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel.
Set the RBW = 100 kHz. Set the VBW ≥ 3 x RBW.
Set Detector = peak. Set Sweep time = auto couple.
Set Trace mode = max hold. Allow trace to fully stabilize.
Use the peak marker function to determine the maximum Maximum conduceted level.
Note that the channel found to contain the maximum conduceted level can be used to establish the reference level.

- **Band-edge Compliance of RF Conducted Emissions**

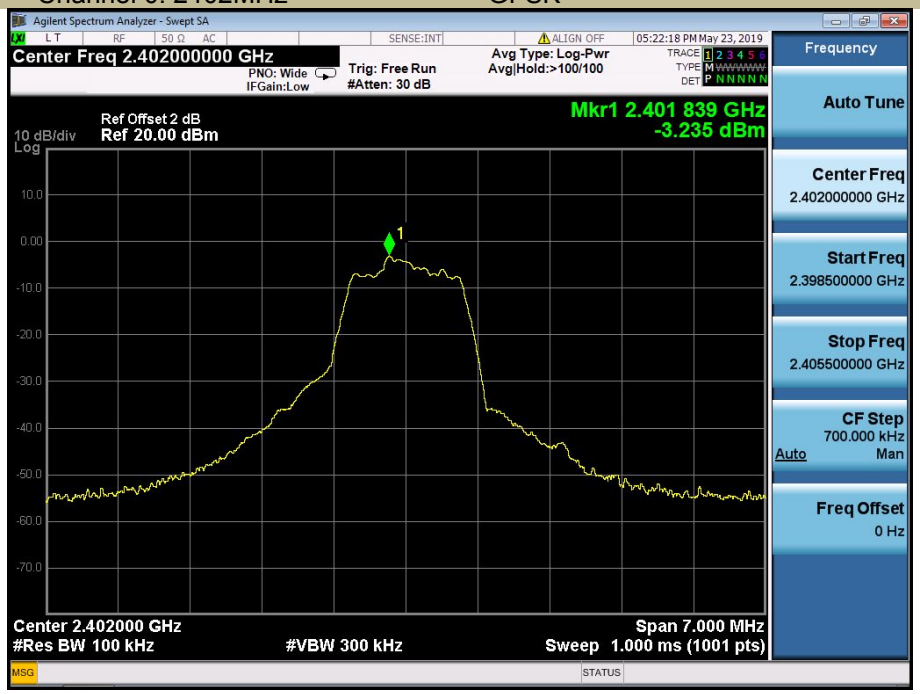
Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the emission operating on the channel closest to the band-edge, as well as any modulation products which fall outside of the authorized band of operation
Set RBW ≥ 1% of the span=100kHz Set VBW ≥ RBW
Set Sweep = auto Set Detector function = peak Set Trace = max hold
Allow the trace to stabilize. Set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. The marker-delta value now displayed must comply with the limit specified in this Section.
Now, using the same instrument settings, enable the hopping function of the EUT. Allow the trace to stabilize. Follow the same procedure listed above to determine if any spurious emissions caused by the hopping function also comply with the specified limit.

- **Conduceted Spurious RF Conducted Emission**

Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic.(30MHz to 25GHz). Set RBW = 100 kHz Set VBW ≥ RBW
Set Sweep = auto Set Detector function = peak Set Trace = max hold
Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this Section.

9.6.5 Test Results

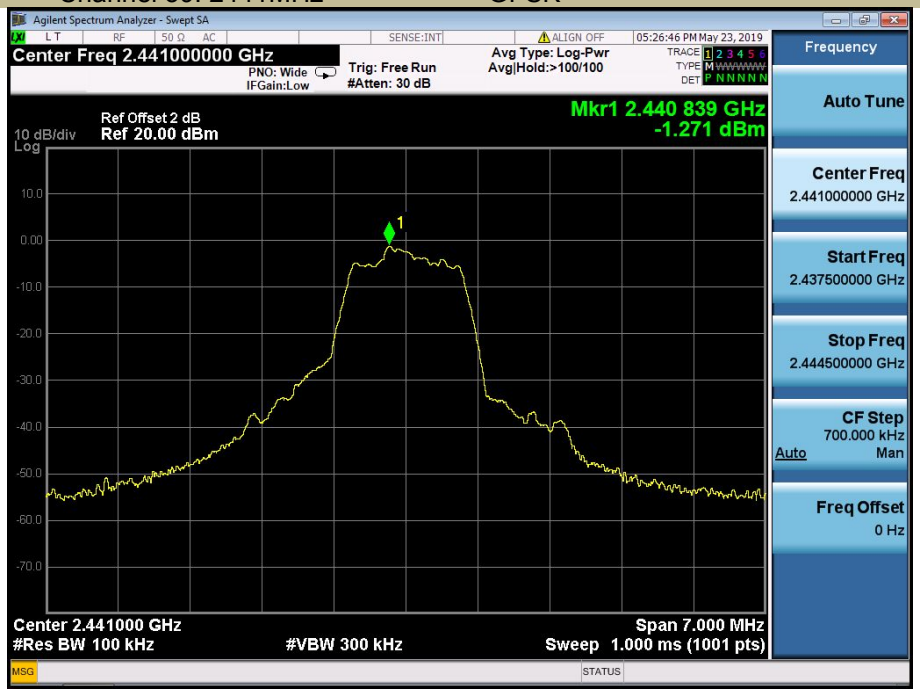
Test Model	Maximum Conduceted Level RBW=100kHz Channel 0: 2402MHz GFSK



Test Model	Conduceted Spurious RF Conducted Emission Channel 0: 2402MHz GFSK

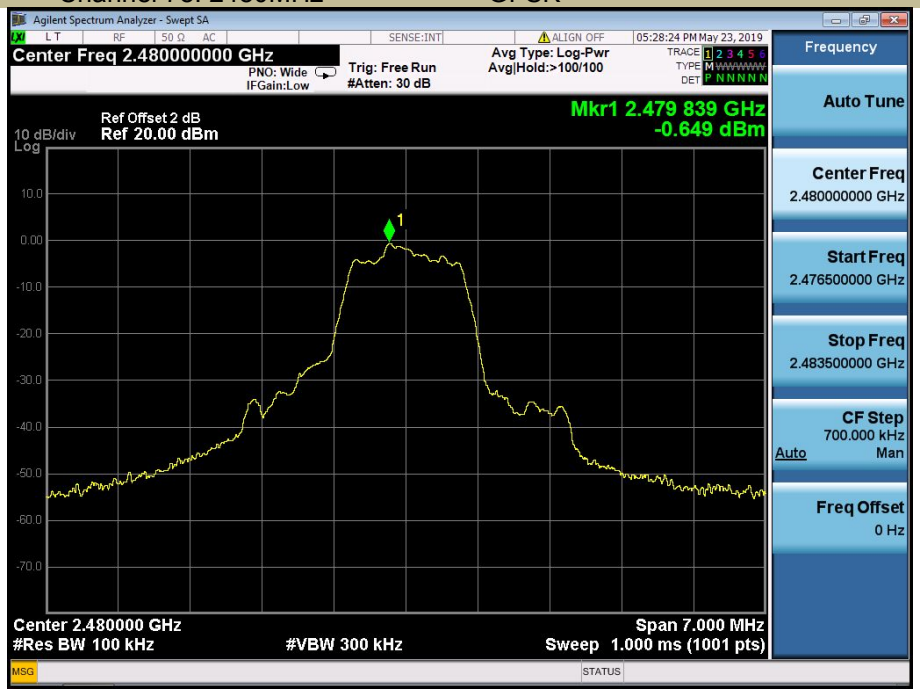
Test Model	Band-edge Conducted Emissions Channel 0: 2402MHz GFSK

Test Model	Maximum Conduceted Level RBW=100kHz Channel 39: 2441MHz GFSK



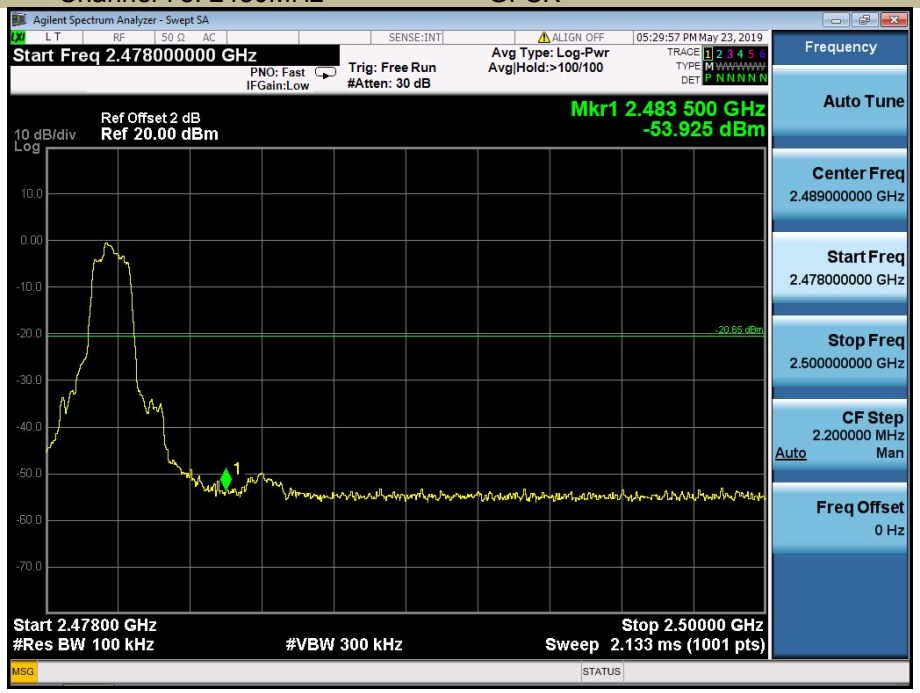
Test Model	Conduceted Spurious RF Conducted Emission Channel 39: 2441MHz GFSK

Test Model	Maximum Conduceted Level RBW=100kHz Channel 78: 2480MHz GFSK



Test Model	Conduceted Spurious RF Conducted Emission Channel 78: 2480MHz GFSK

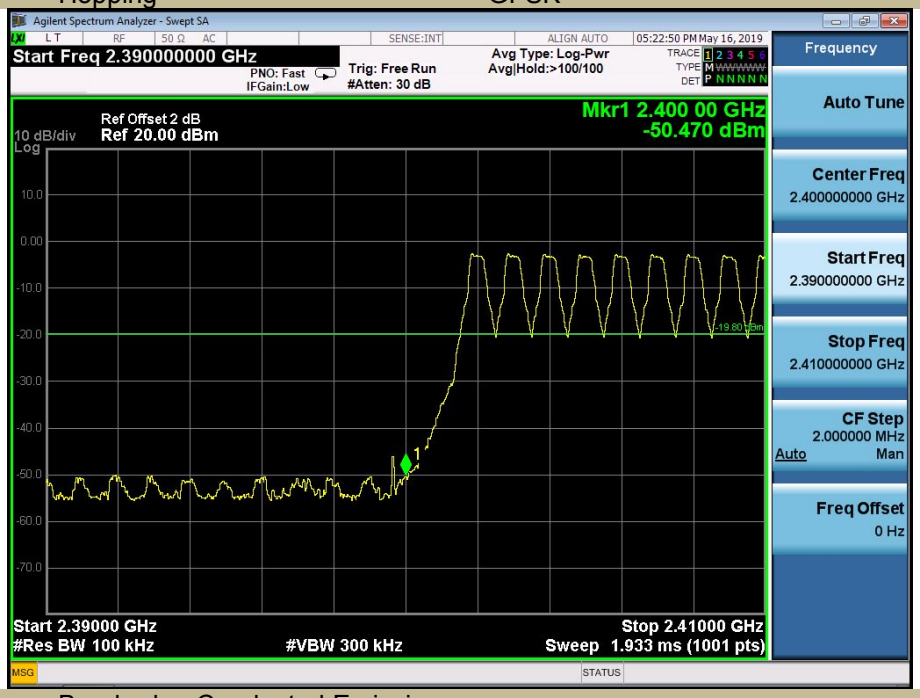
Test Model	Band-edge Conducted Emissions Channel 78: 2480MHz GFSK



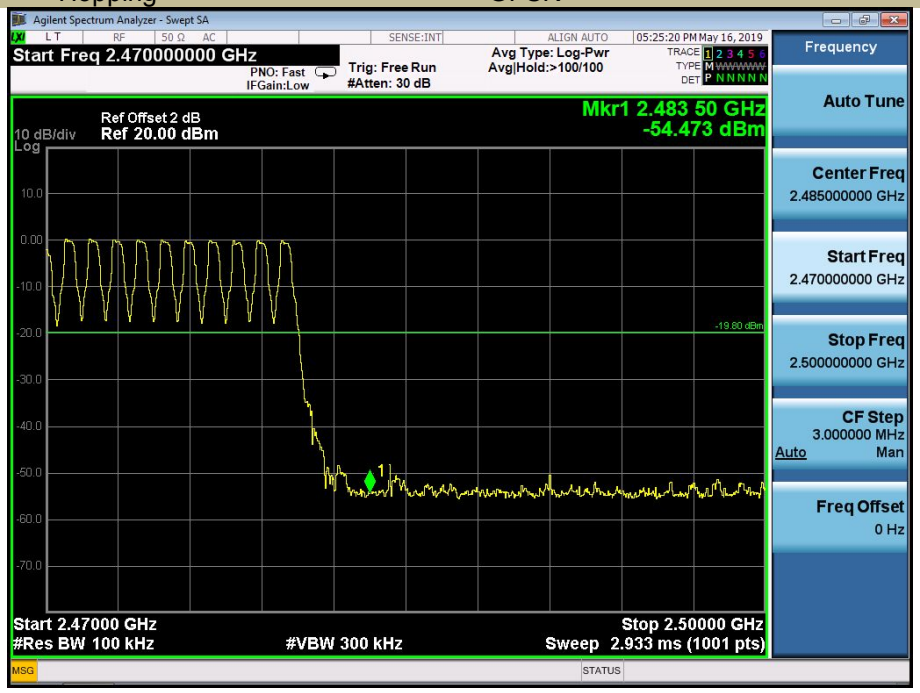
Test Model	Maximum Conducted Level RBW=100kHz
	Hopping GFSK

Test Model	Conducted Spurious RF Conducted Emission
	Hopping GFSK

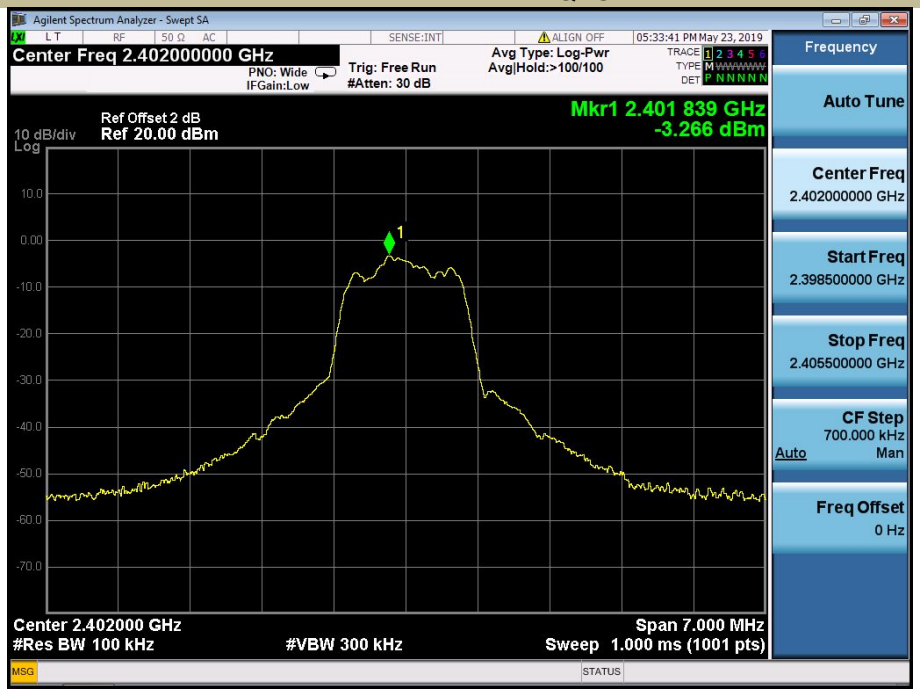
Test Model	Band-edge Conducted Emissions	
	Hopping	GFSK



Test Model	Band-edge Conducted Emissions	
	Hopping	GFSK

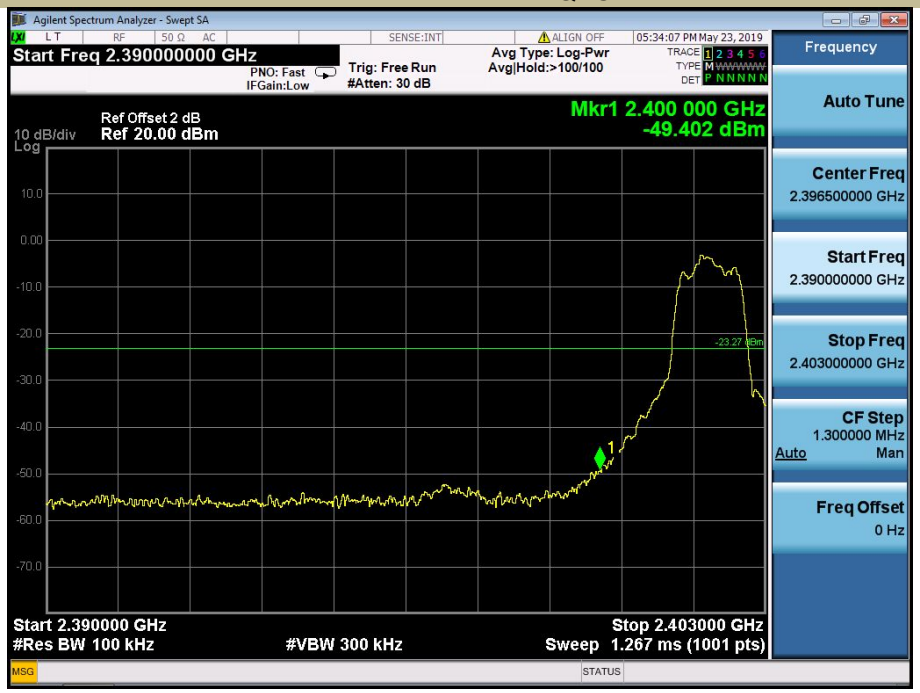


Test Model	Maximum Conduceted Level RBW=100kHz Channel 0: 2402MHz π /4DQPSK

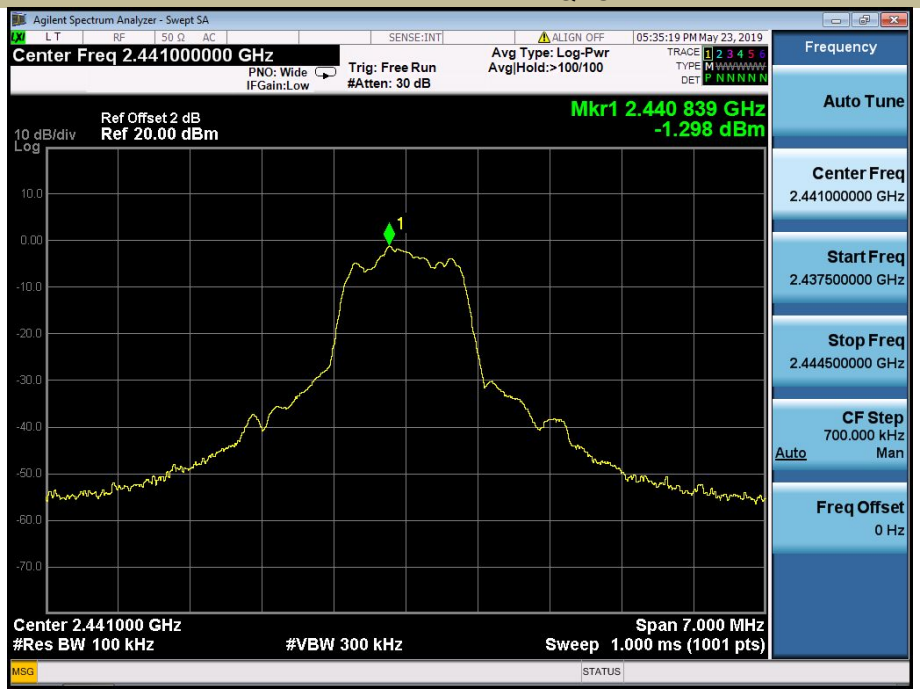


Test Model	Conduceted Spurious RF Conducted Emission Channel 0: 2402MHz π /4DQPSK

Test Model	Band-edge Conducted Emissions Channel 0: 2402MHz π /4DQPSK

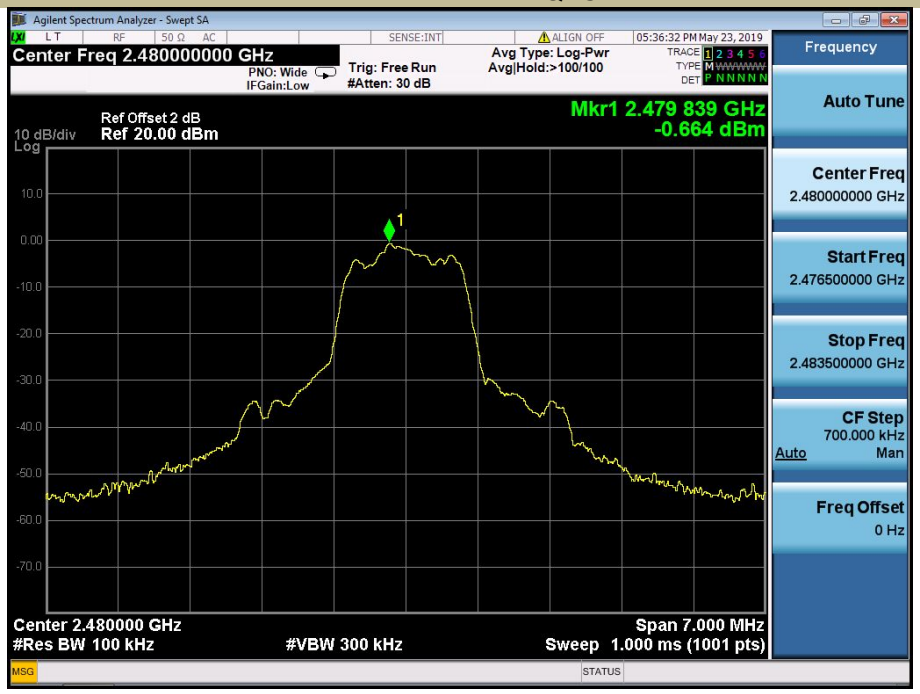


Test Model	Maximum Conduceted Level RBW=100kHz Channel 39: 2441MHz π /4DQPSK



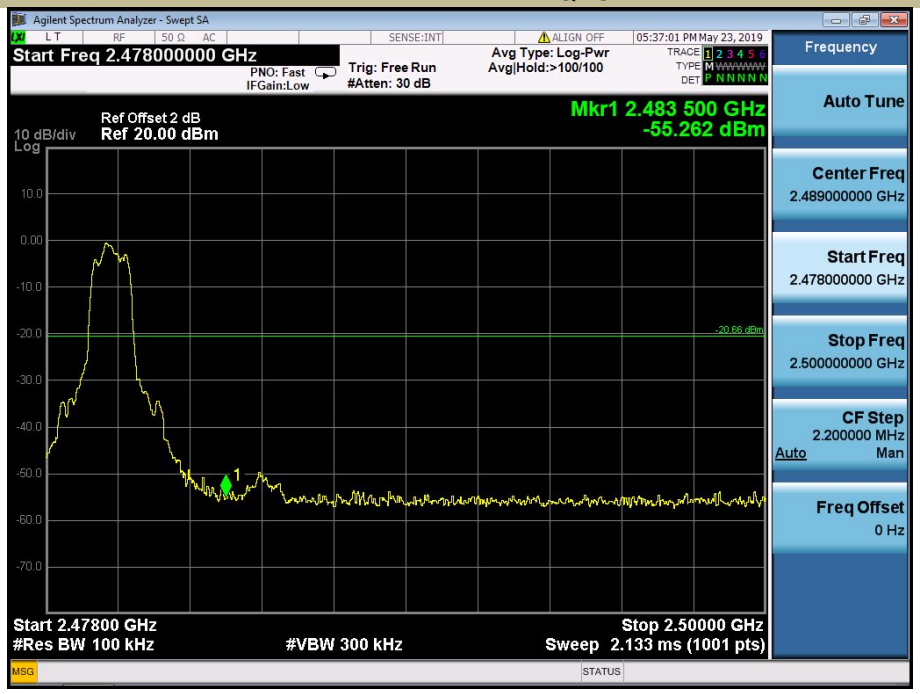
Test Model	Conduceted Spurious RF Conducted Emission Channel 39: 2441MHz π /4DQPSK

Test Model	Maximum Conduceted Level RBW=100kHz Channel 78: 2480MHz π /4DQPSK

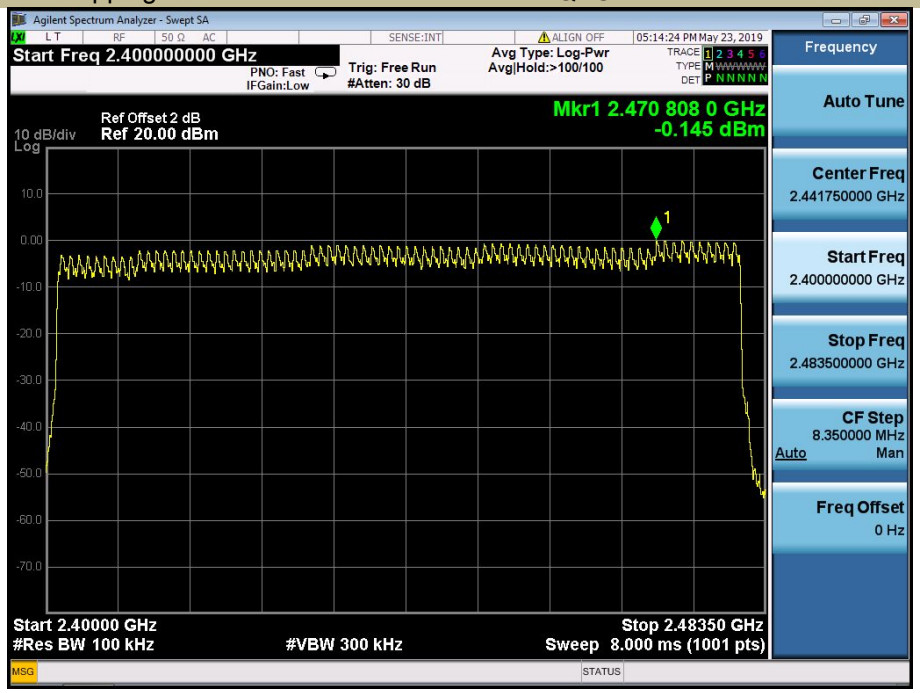


Test Model	Conduceted Spurious RF Conducted Emission Channel 78: 2480MHz π /4DQPSK

Test Model	Band-edge Conducted Emissions Channel 78: 2480MHz π /4DQPSK

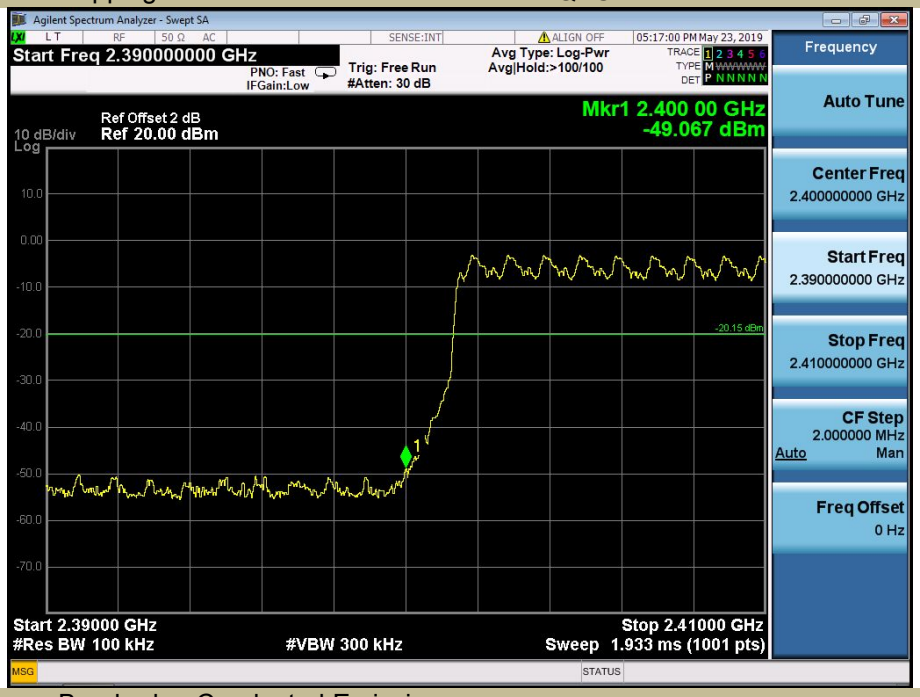


Test Model	Maximum Conduceted Level RBW=100kHz	
	Hopping	π /4DQPSK

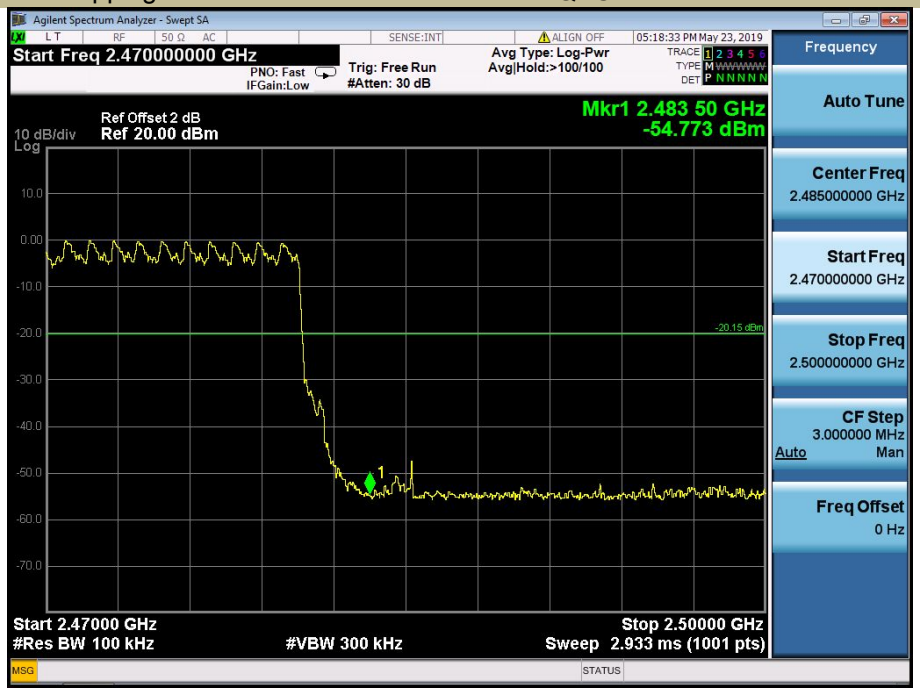


Test Model	Conduceted Spurious RF Conducted Emission	
	Hopping	π /4DQPSK

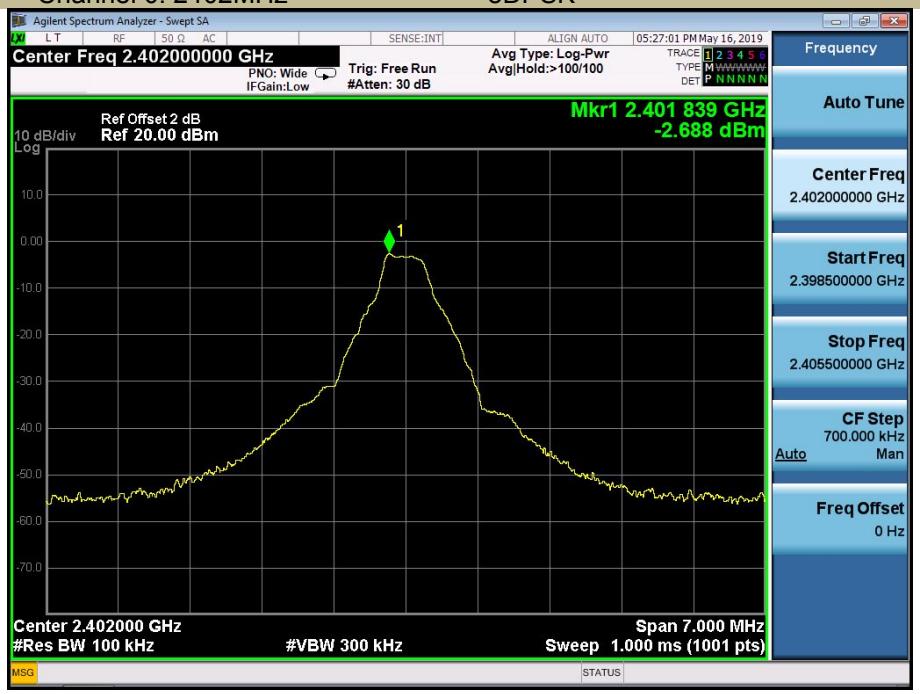
Test Model	Band-edge Conducted Emissions	
	Hopping	π /4DQPSK



Test Model	Band-edge Conducted Emissions	
	Hopping	π /4DQPSK



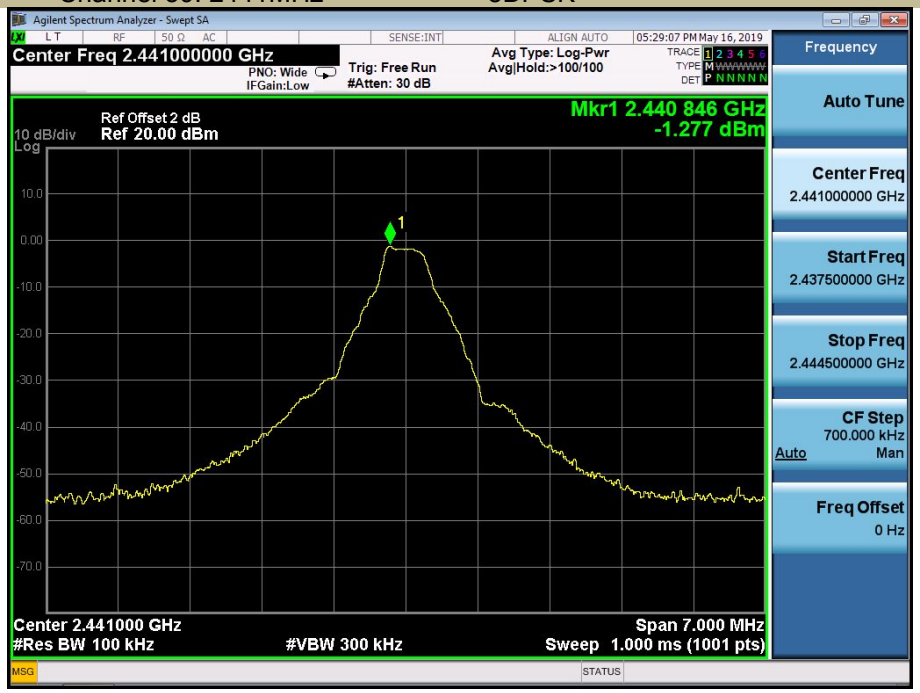
Test Model	Maximum Conduceted Level RBW=100kHz Channel 0: 2402MHz 8DPSK



Test Model	Conduceted Spurious RF Conducted Emission Channel 0: 2402MHz 8DPSK

Test Model	Band-edge Conducted Emissions Channel 0: 2402MHz 8DPSK

Test Model	Maximum Conduceted Level RBW=100kHz Channel 39: 2441MHz 8DPSK



Test Model	Conduceted Spurious RF Conducted Emission Channel 39: 2441MHz 8DPSK

Test Model	Maximum Conduceted Level RBW=100kHz Channel 78: 2480MHz 8DPSK