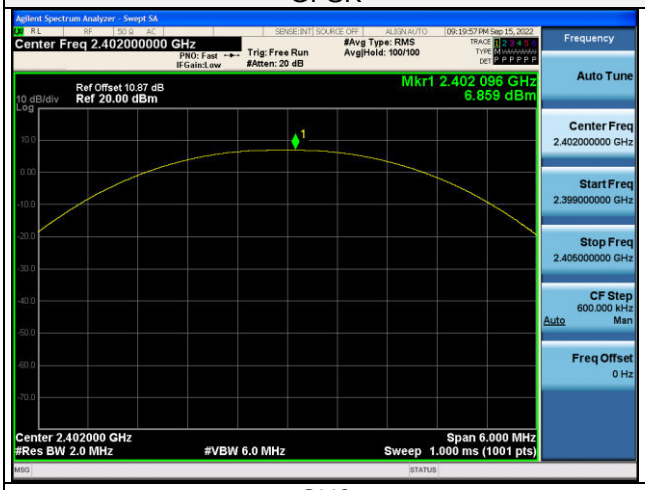
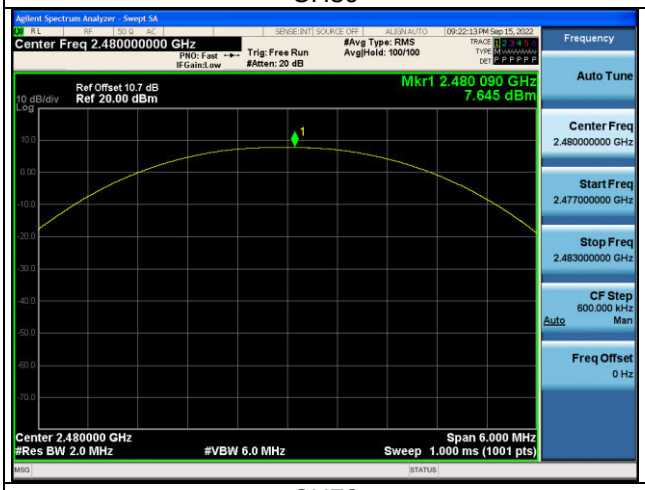
Average Power Spectrum Plot

GFSK	8DPSK
CH0	CH0
CH39	CH39
CH78	CH78

Right

Peak Power Spectrum Plot	
GFSK	8DPSK
	
CH0	CH0
CH39	CH39
	
CH78	CH78

Average Power Spectrum Plot	
GFSK	8DPSK
CH0	CH0
CH39	CH39
CH78	CH78

3.9 Conducted Out of Band Emission Measurement

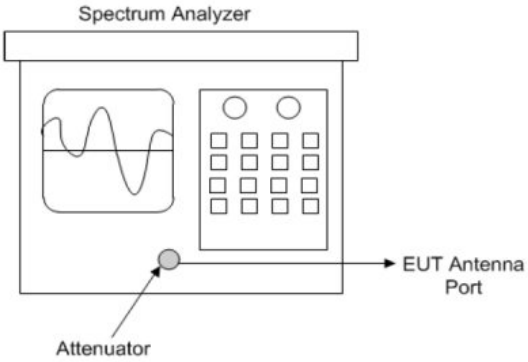
3.9.1 Limits of Conducted Out of Band Emission Measurement

a. **If the maximum peak conducted output power procedure was used to determine compliance as described in 11.9.1**, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).

b. If maximum conducted (average) output power was used to determine compliance as described in 11.9.2. then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc)

3.9.2 Tets Setup

- DTS emissions in non-restricted frequency bands Subclause 11.11 of ANSI C63.10 is applicable.
- DTS emissions in restricted frequency bands Subclause 11.12 of ANSI C63.10 is applicable



Spectrum analyzer test configuration

3.9.3 Test Instruments

Refer to section 5 to get information of above instrument.

3.9.4 Test Procedure

a. Establish a reference level by using the following procedure:

1) Set instrument center frequency to DTS channel center frequency.
2) Set the span to 21.5 times the DTS bandwidth)
3) Set the RBW= 100 kHz)
4) Set the VBW ≥3 x RBW
5) Detector = peak
6) Sweep time = auto coupling
7) Trace mode =max hold
8) Allow trace to fully stabilize
9) Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

b. Establish an emission level by using the following procedure:

1) Set the center frequency and span to encompass frequency range to be measured.
2) Set the RBW = 100 kHz
3) Set the VBW ≥ 300 kHz.
4) Detector = peak.
5) Sweep time = auto couple.
6) Trace mode = max hold.
7) Allow trace to fully stabilize.
8) Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

3.9.5 Deviation from Test Standard

No deviation.

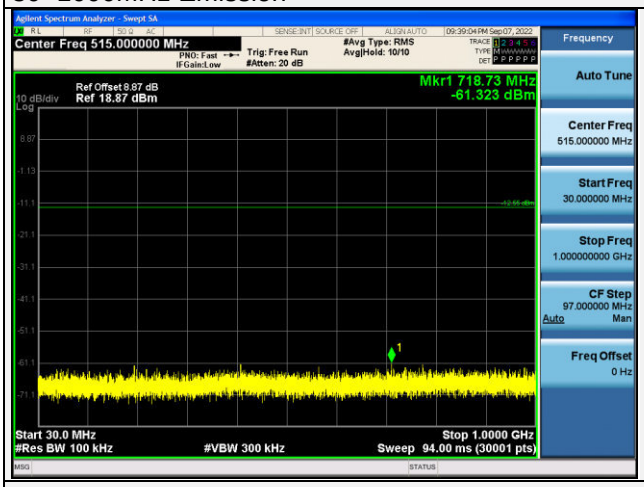
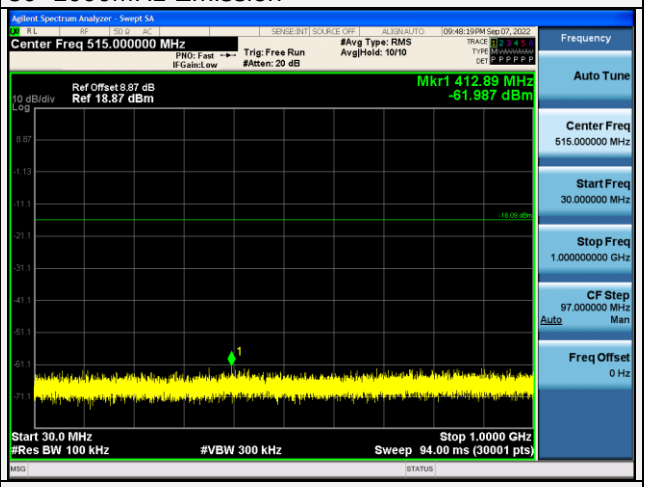
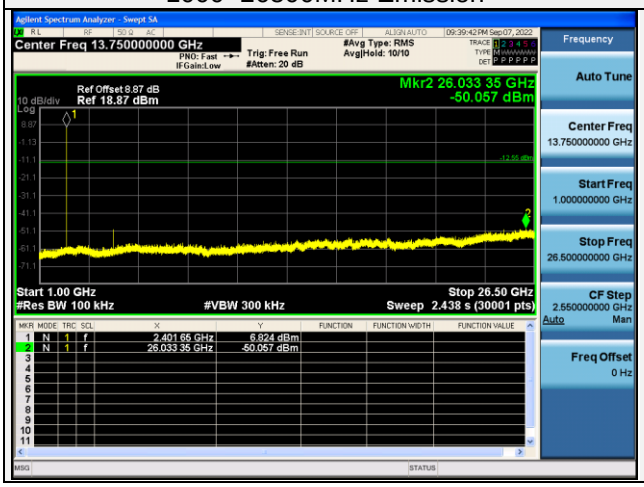
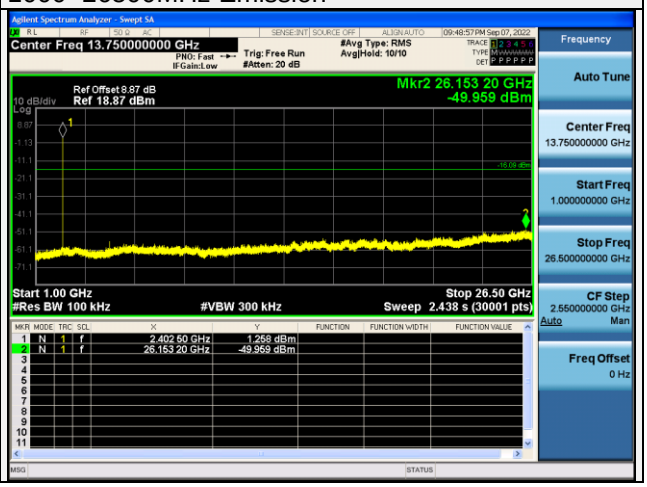
3.9.6 EUT Operating Condition

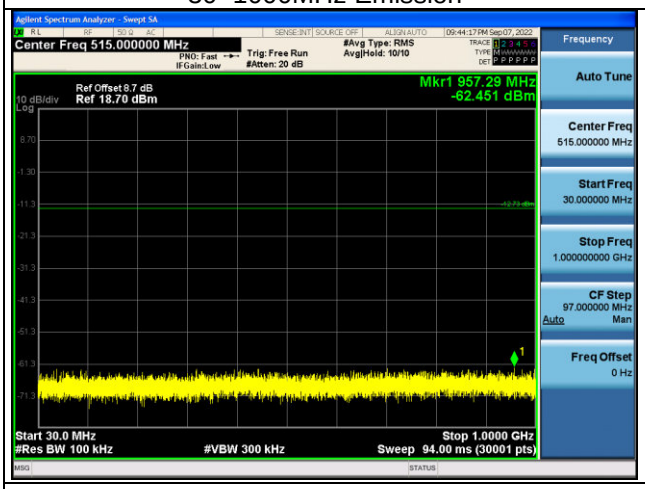
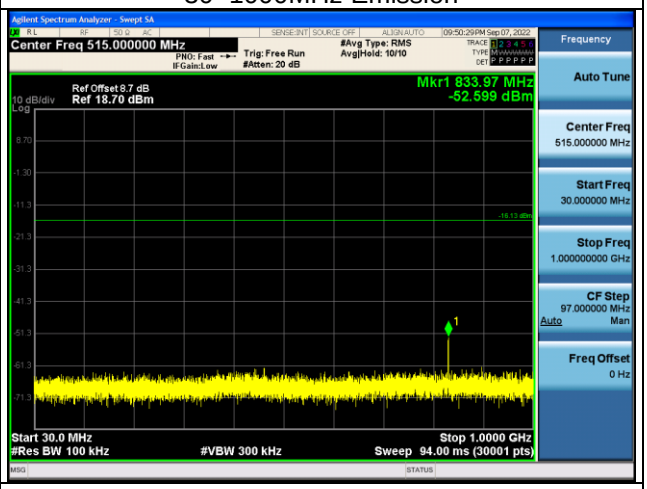
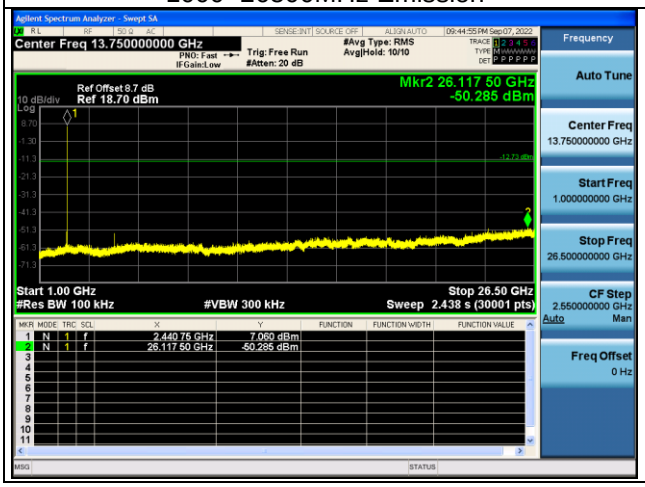
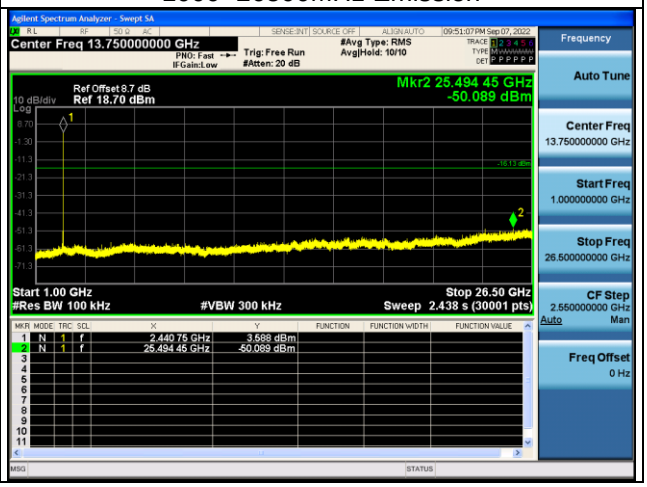
The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

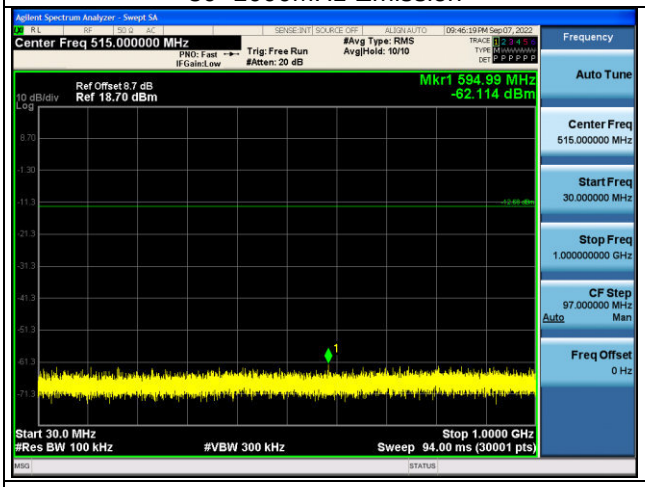
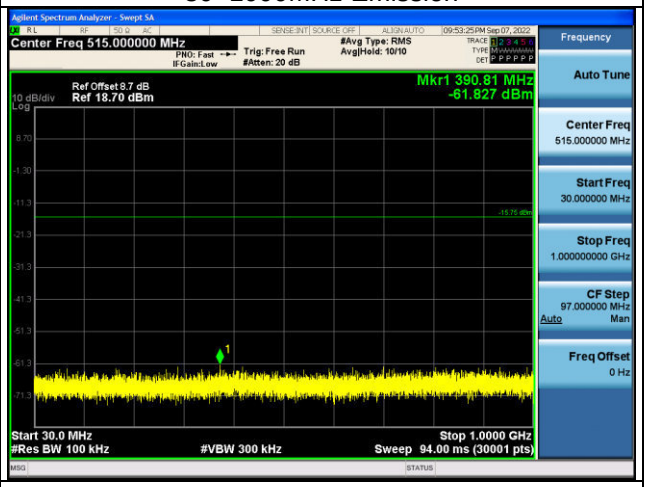
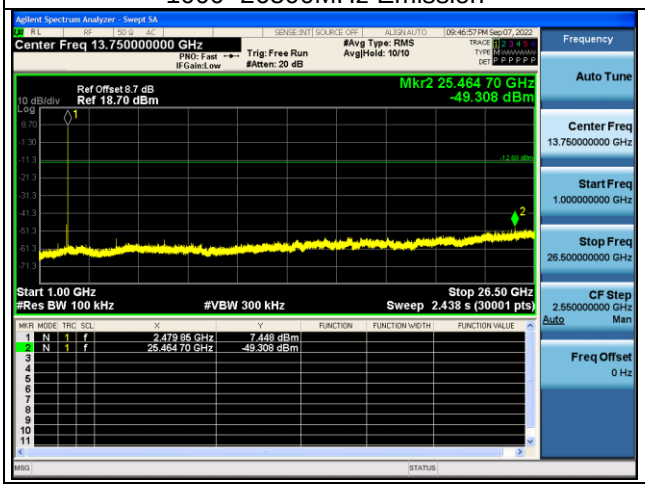
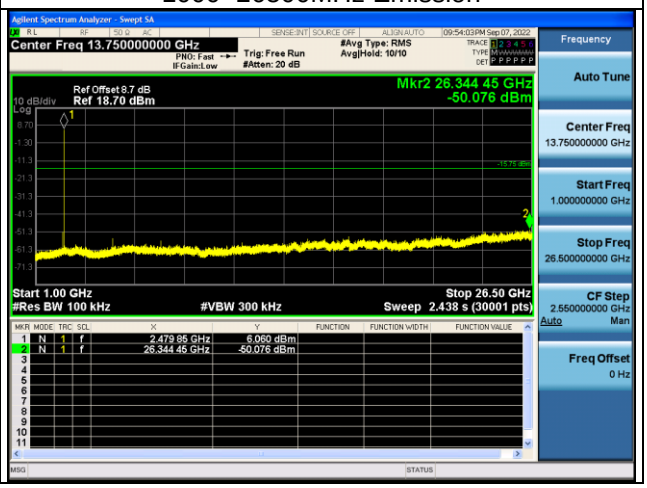
3.9.7 Test Results

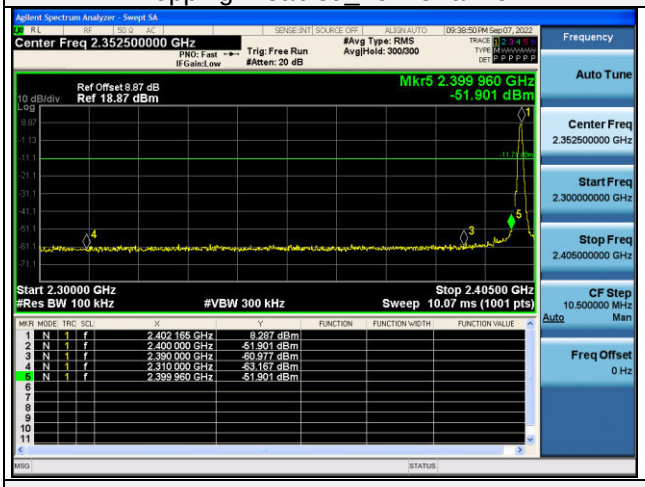
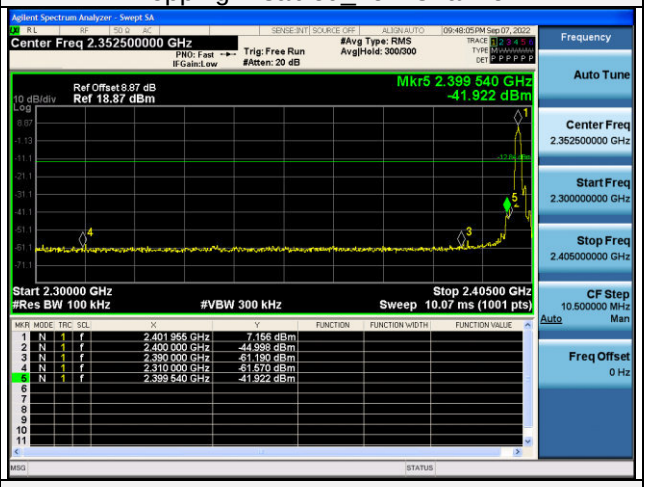
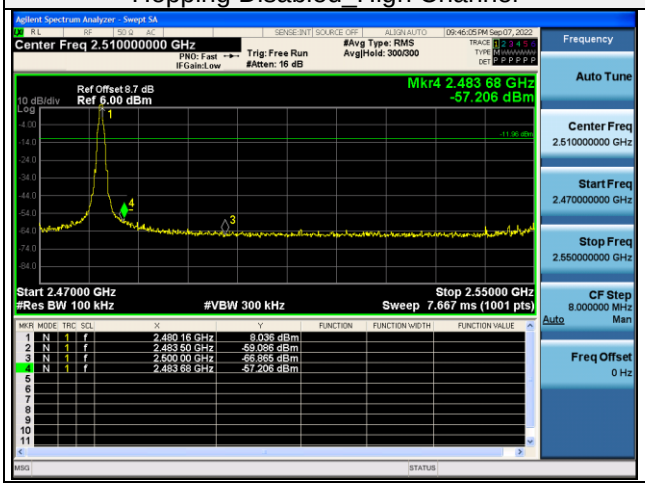
The spectrum plots are attached on the following images. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.

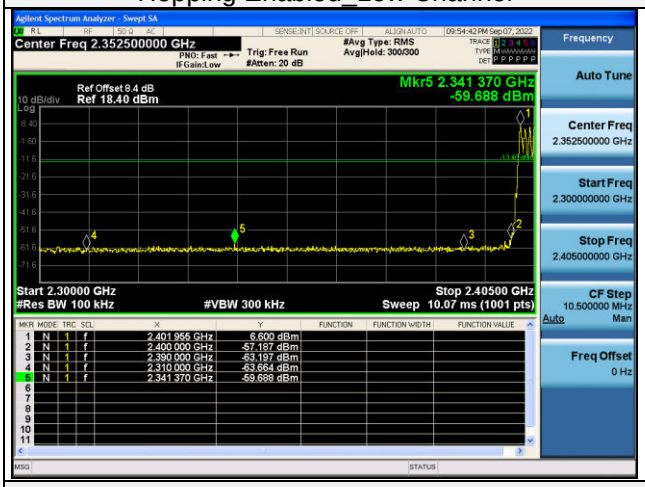
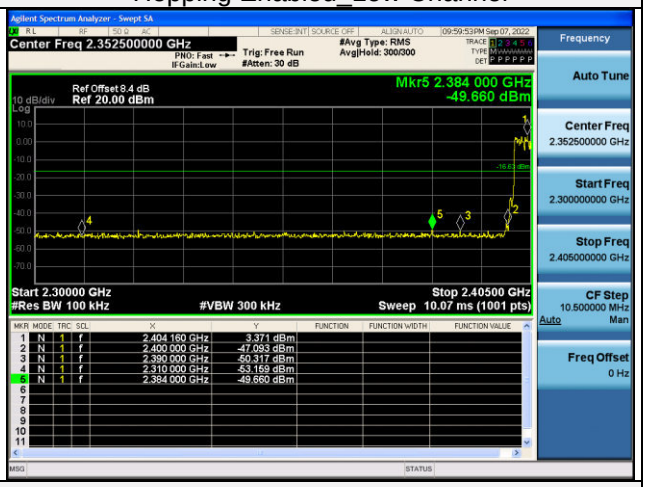
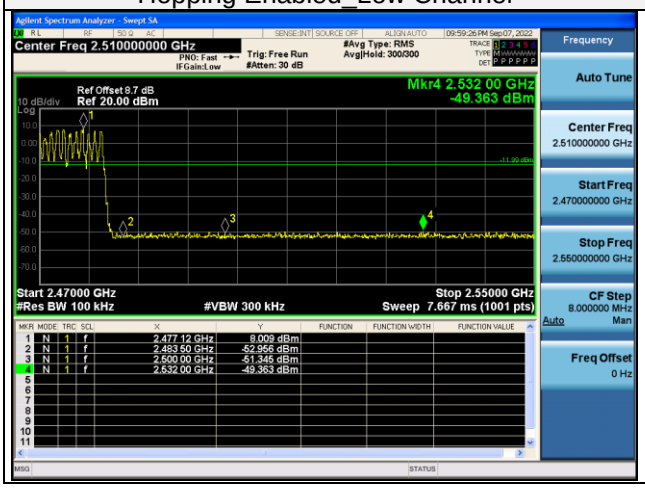
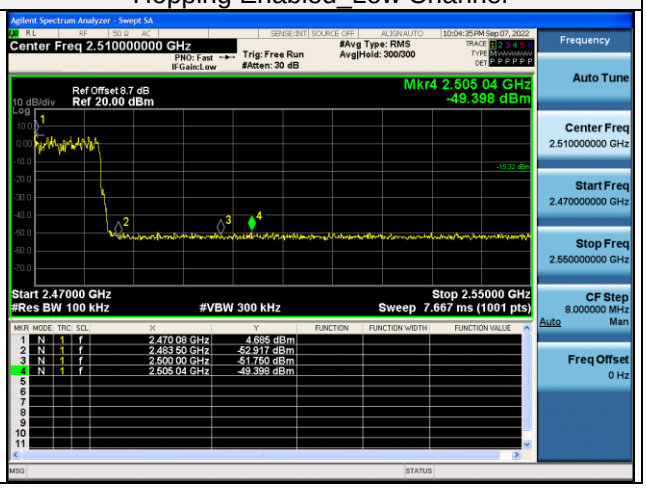
Left

GFSK	8DPSK
Hopping Disabled_Low Channel	Hopping Disabled_Low Channel
Reference Level	Reference Level
30~1000MHz Emission	30~1000MHz Emission
	
1000~26500MHz Emission	1000~26500MHz Emission
	

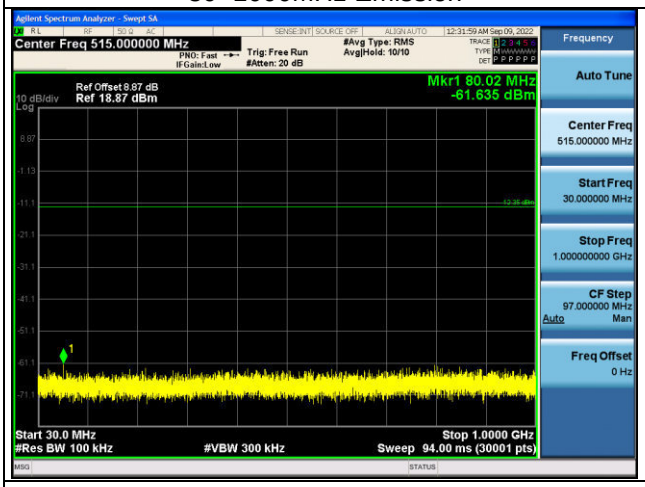
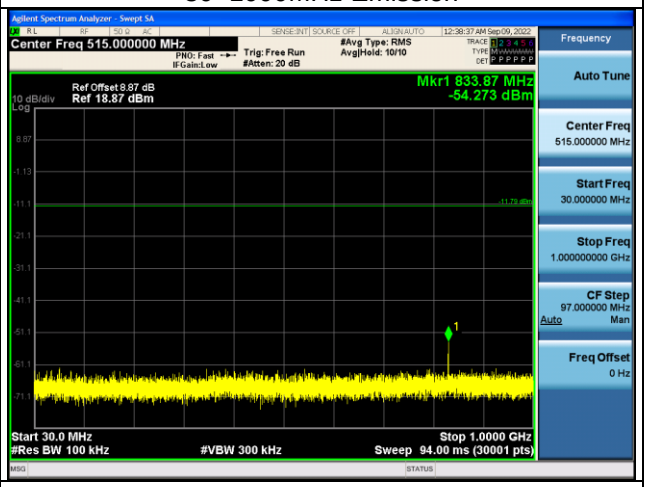
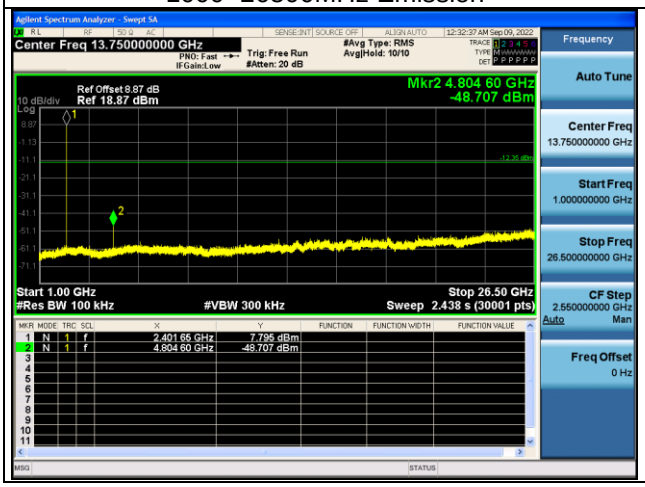
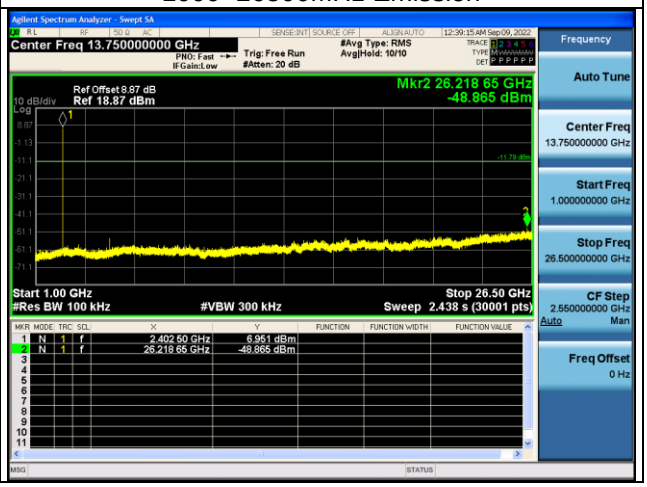
GFSK	8DPSK
Hopping Disabled_Middle Channel	Hopping Disabled_Middle Channel
Reference Level	Reference Level
30~1000MHz Emission	30~1000MHz Emission
	
1000~26500MHz Emission	1000~26500MHz Emission
	

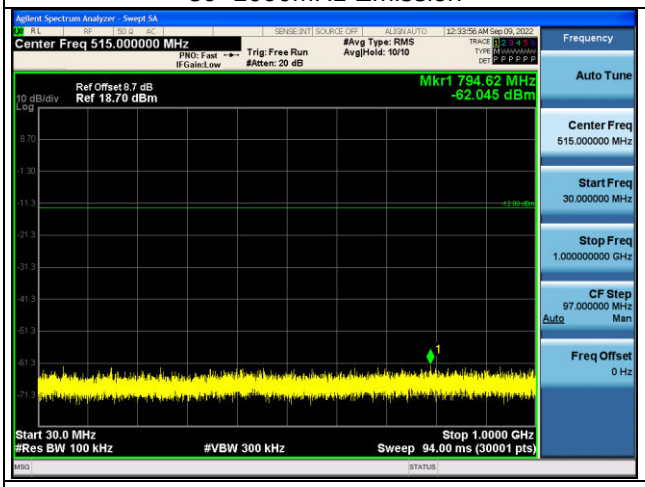
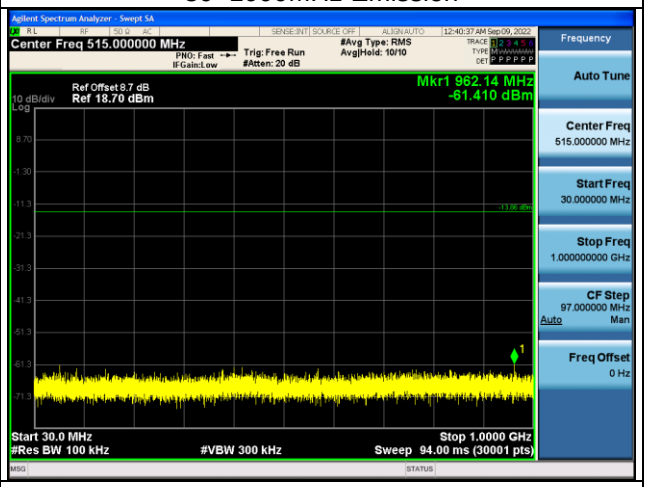
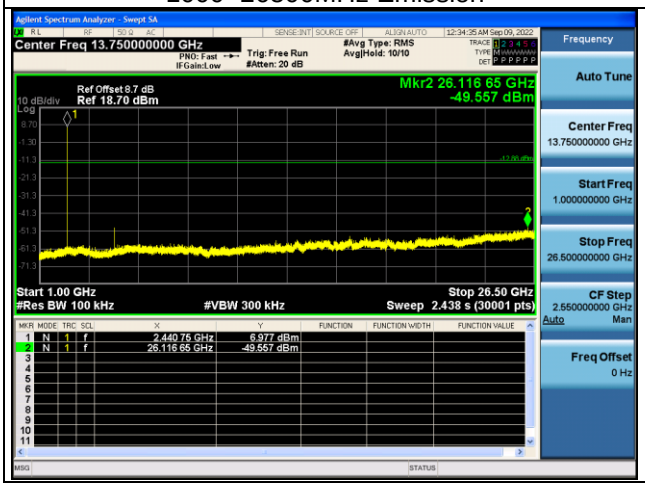
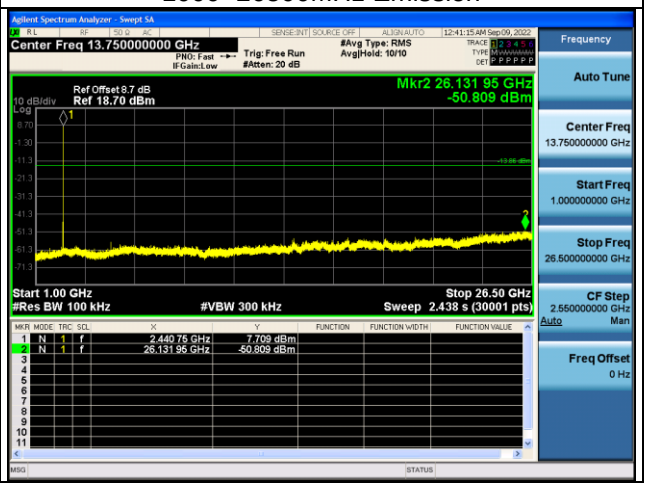
GFSK	8DPSK
Hopping Disabled_High Channel	Hopping Disabled_High Channel
Reference Level	Reference Level
30~1000MHz Emission	30~1000MHz Emission
	
1000~26500MHz Emission	1000~26500MHz Emission
	

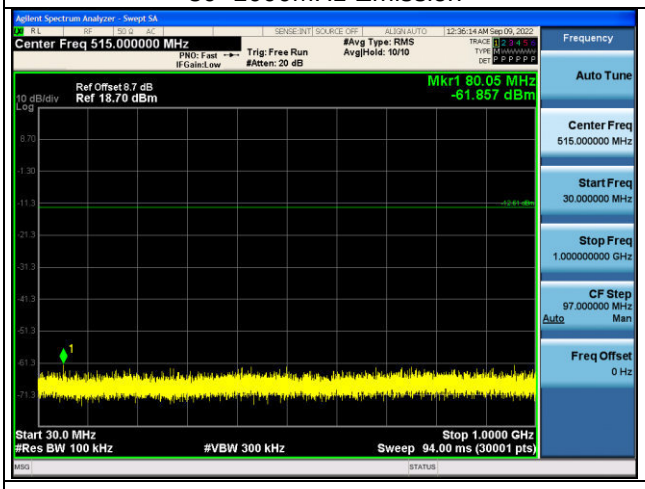
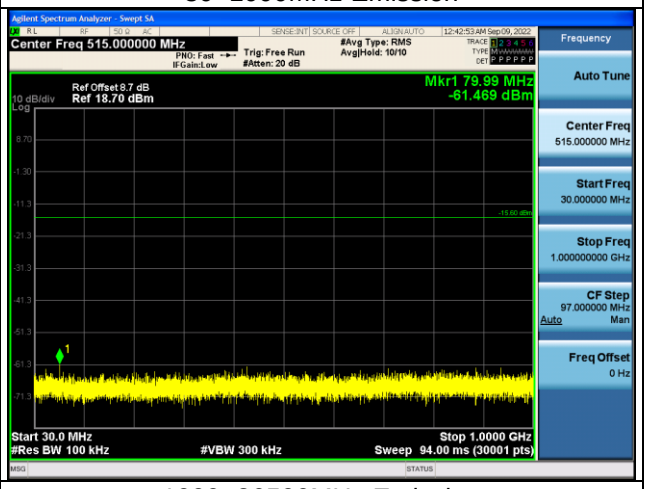
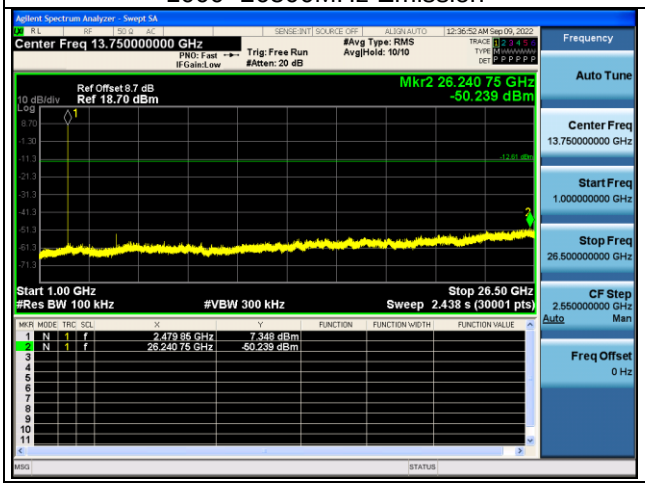
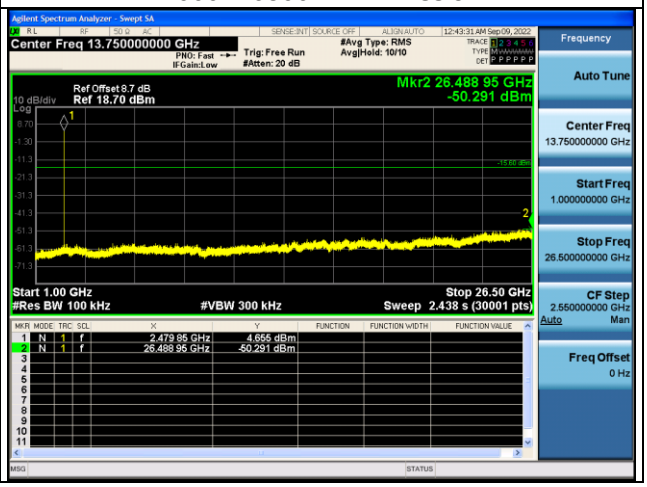
Bandedge	
GFSK	8DPSK
Hopping Disabled_Low Channel	Hopping Disabled_Low Channel
	
Hopping Disabled_High Channel	Hopping Disabled_High Channel
	

Bandedge	
GFSK	8DPSK
Hopping Enabled_Low Channel	Hopping Enabled_Low Channel
	
Hopping Enabled_Low Channel	Hopping Enabled_Low Channel
	

Right

GFSK	8DPSK
Hopping Disabled_Low Channel	Hopping Disabled_Low Channel
Reference Level	Reference Level
30~1000MHz Emission	30~1000MHz Emission
	
1000~26500MHz Emission	1000~26500MHz Emission
	

GFSK	8DPSK
Hopping Disabled_Middle Channel	Hopping Disabled_Middle Channel
Reference Level	Reference Level
30~1000MHz Emission	30~1000MHz Emission
	
1000~26500MHz Emission	1000~26500MHz Emission
	

GFSK	8DPSK
Hopping Disabled_High Channel	Hopping Disabled_High Channel
Reference Level	Reference Level
30~1000MHz Emission	30~1000MHz Emission
	
1000~26500MHz Emission	1000~26500MHz Emission