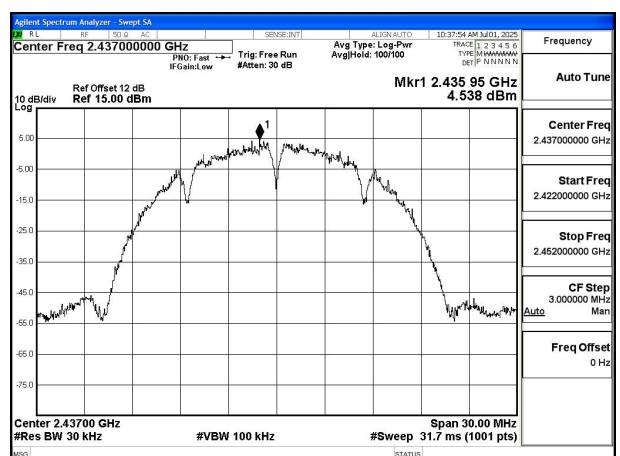




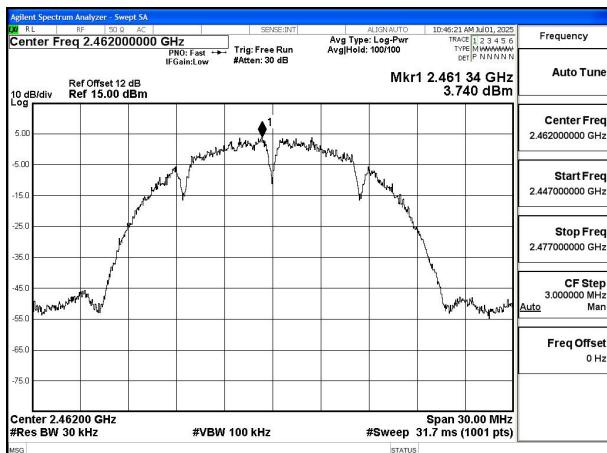
**BUREAU  
VERITAS** Test Report No.: PSU-NQN2507020111RF01

## TEST GRAPHS

## Test Mode: 802.11b



Mode:802.11b Frequency:2412MHz Ant:Chain0



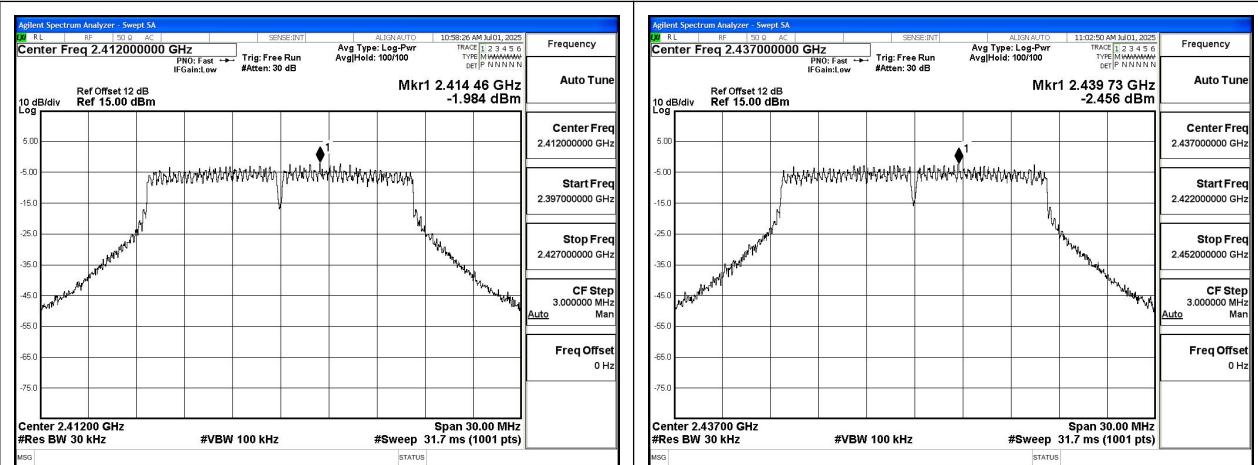
Mode:802.11b Frequency:2437MHz Ant:Chain0

Mode:802.11b Frequency:2462MHz Ant:Chain0

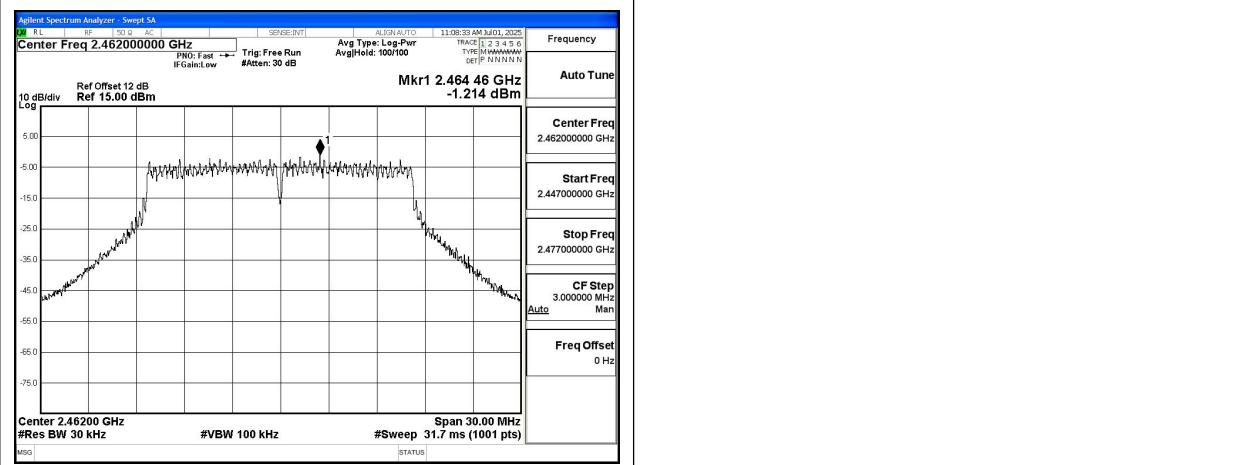
BUREAU  
VERITAS

Test Report No.: PSU-NQN2507020111RF01

Test Mode: 802.11g



Mode:802.11g Frequency:2412MHz Ant:Chain0



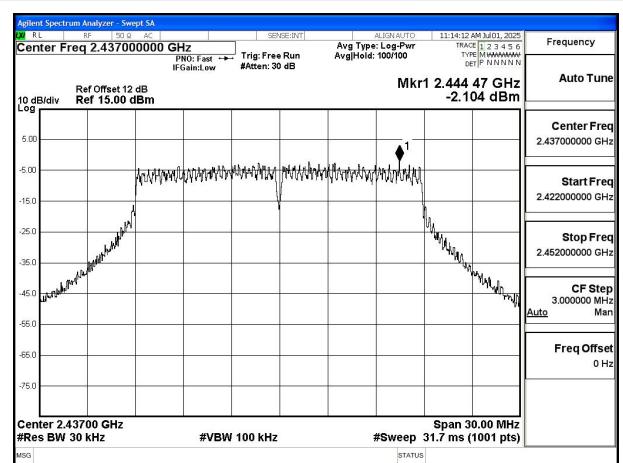
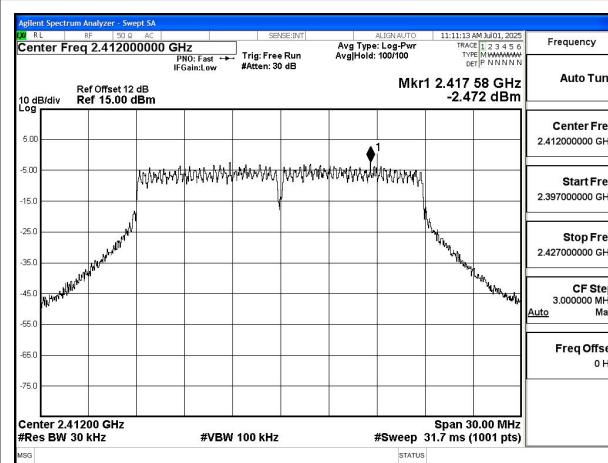
Mode:802.11g Frequency:2462MHz Ant:Chain0



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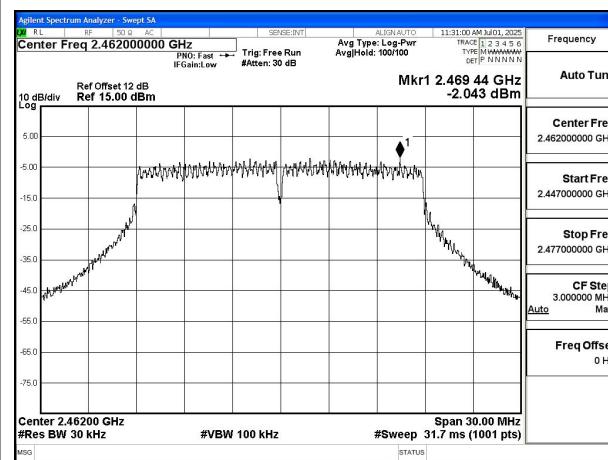
Test Report No.: PSU-NQN2507020111RF01

Test Mode: 802.11n HT20



Mode:802.11n HT20 Frequency:2412MHz

Ant:Chain0



Mode:802.11n HT20 Frequency:2437MHz

Ant:Chain0

Mode:802.11n HT20 Frequency:2462MHz

Ant:Chain0

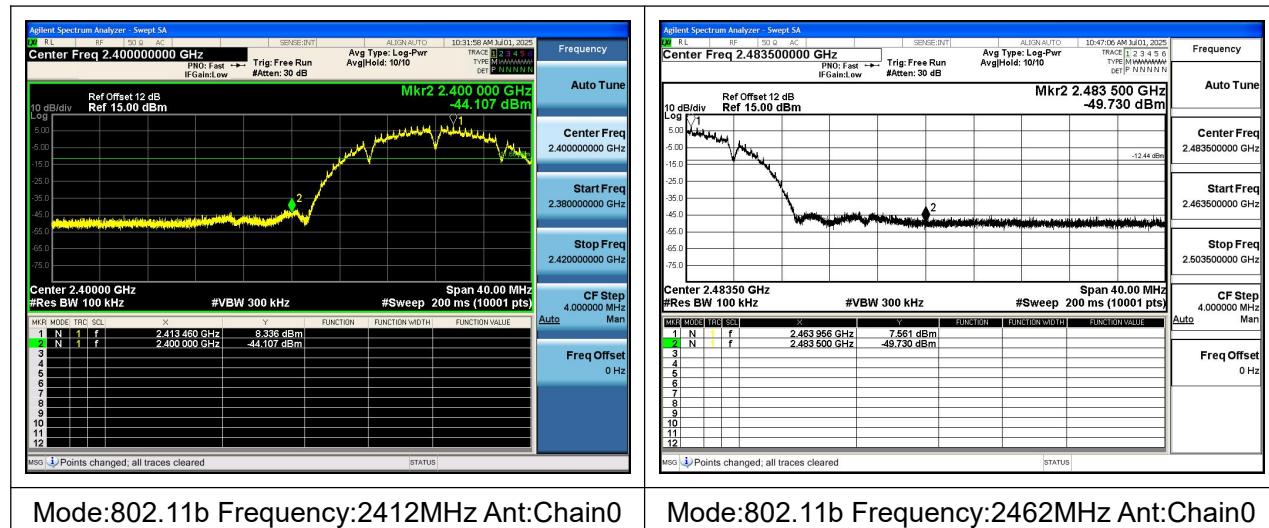


BUREAU  
VERITAS Test Report No.: PSU-NQN2507020111RF01

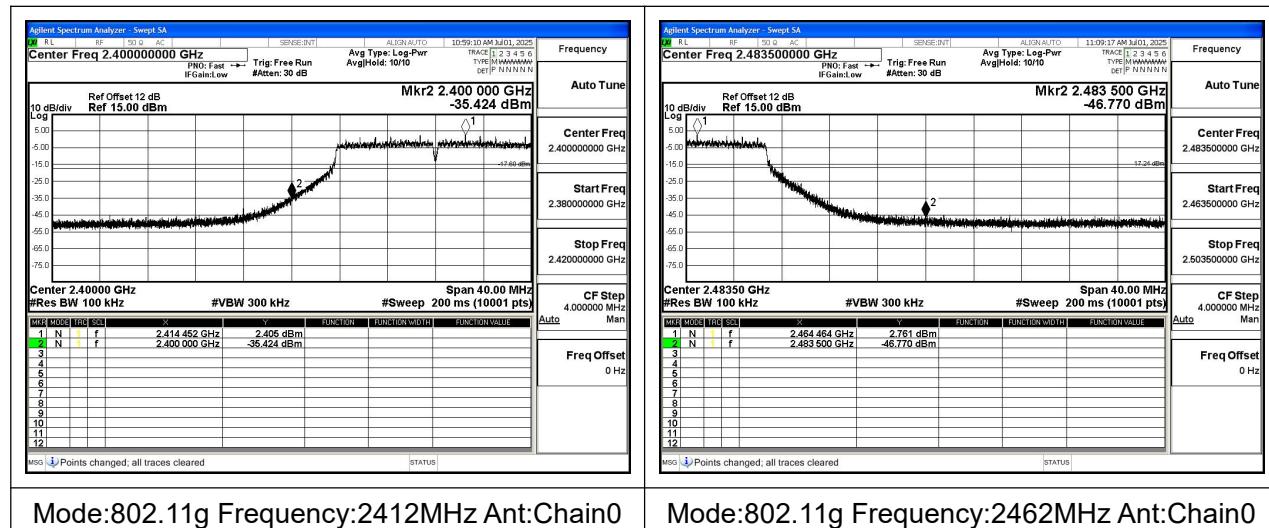
## BAND EDGE MEASUREMENTS

### TEST GRAPHS

Test Mode: 802.11b



Test Mode: 802.11g

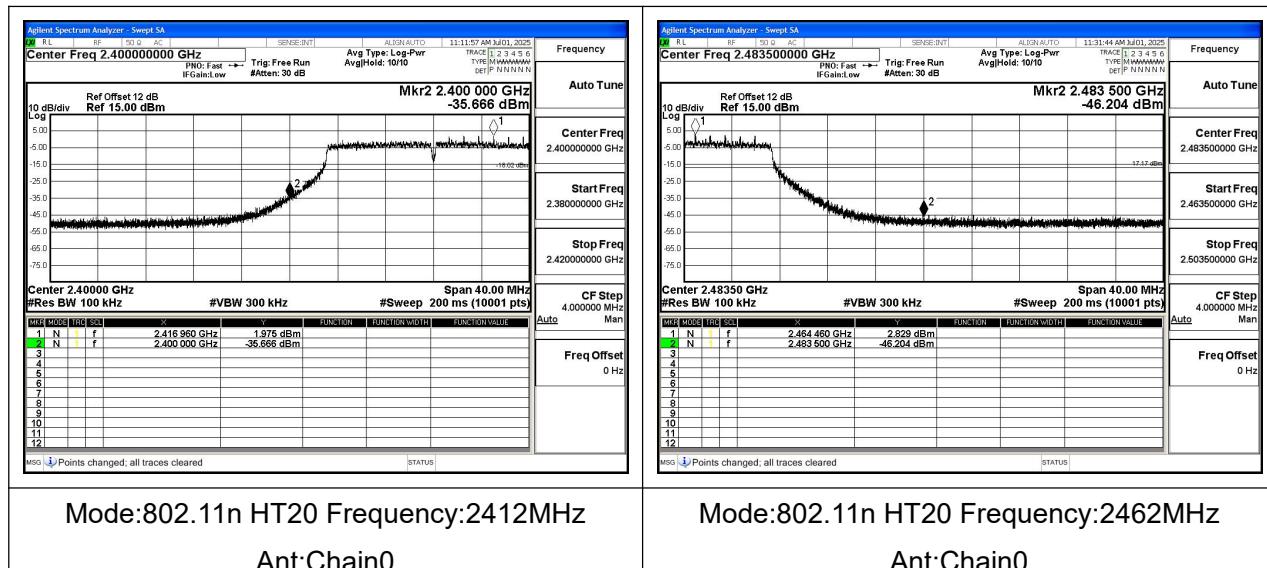




BUREAU  
VERITAS

Test Report No.: PSU-NQN2507020111RF01

Test Mode: 802.11n HT20



Mode:802.11n HT20 Frequency:2412MHz

Ant:Chain0

Mode:802.11n HT20 Frequency:2462MHz

Ant:Chain0



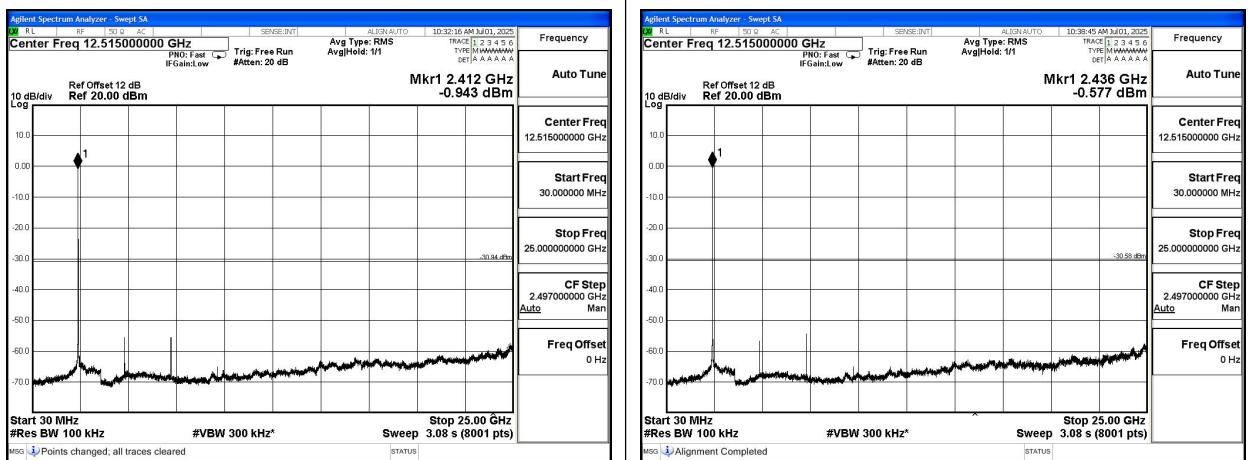
BUREAU  
VERITAS

Test Report No.: PSU-NQN2507020111RF01

## CONDUCTED SPURIOUS EMISSION

### TEST GRAPHS

Test Mode: 802.11b



Mode:802.11b Frequency:2412MHz Ant:Chain0



Mode:802.11b Frequency:2462MHz Ant:Chain0

Mode:802.11b Frequency:2437MHz Ant:Chain0



BUREAU  
VERITAS Test Report No.: PSU-NQN2507020111RF01

Test Mode: 802.11g



Mode:802.11g Frequency:2412MHz Ant:Chain0



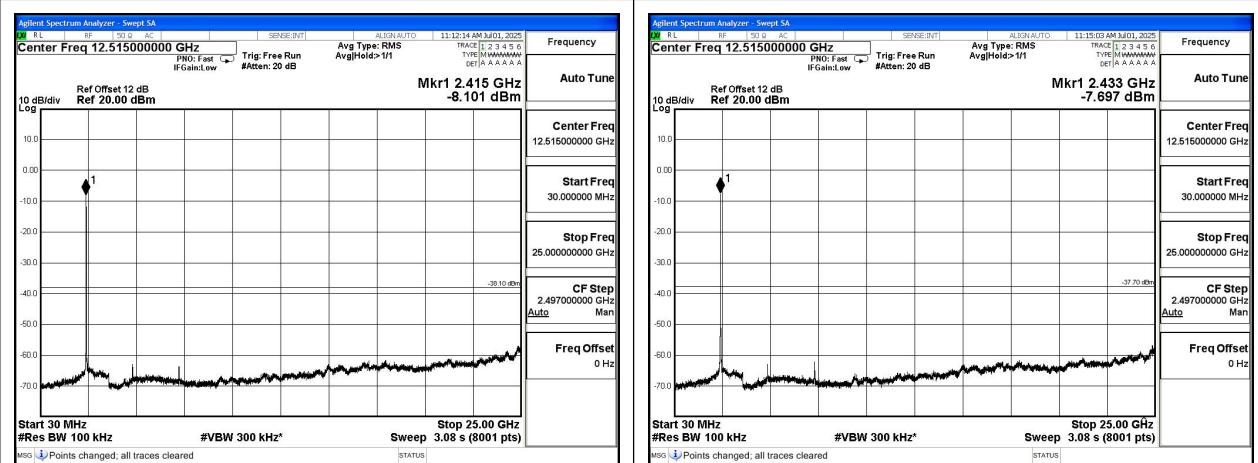
Mode:802.11g Frequency:2437MHz Ant:Chain0

Mode:802.11g Frequency:2462MHz Ant:Chain0



## BUREAU VERITAS Test Report No.: PSU-NQN2507020111RF01

### Test Mode: 802.11n HT20



Mode:802.11n HT20 Frequency:2412MHz

Ant:Chain0



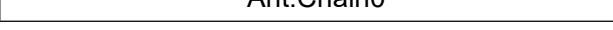
Mode:802.11n HT20 Frequency:2437MHz

Mode:802.11n HT20 Frequency:2437MHz

Ant:Chain0



Ant:Chain0





## DUTY CYCLE

## TEST RESULT

Modulation Type	Frequency (MHz)	Antenna	Plot	Duty Cycle	Correction Factor(dB)
802.11b	2412	Chain0	Fig.1	99.74%	0
802.11g	2412	Chain0	Fig.2	97.58%	0.11
802.11n HT20	2412	Chain0	Fig.3	97.25%	0.12

Note: Correction Factor=10\*log (1/Duty Cycle)



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Test Report No.: PSU-NQN2507020111RF01

## TEST GRAPHS

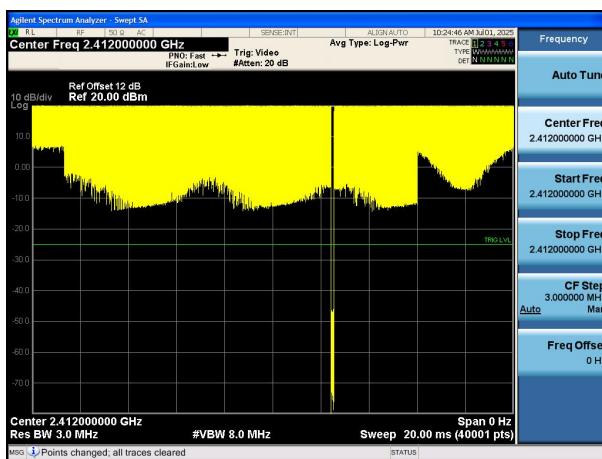


Fig.1

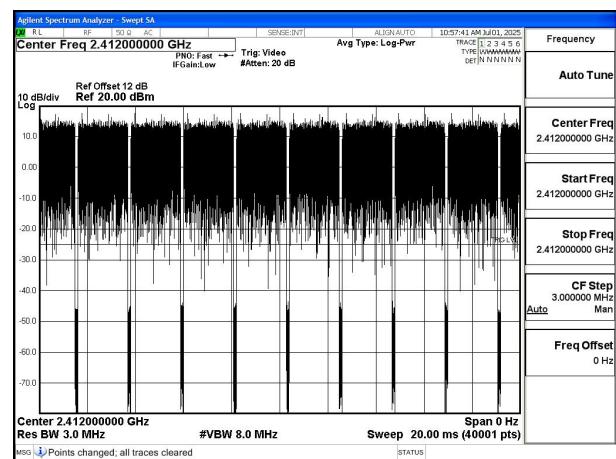


Fig.2

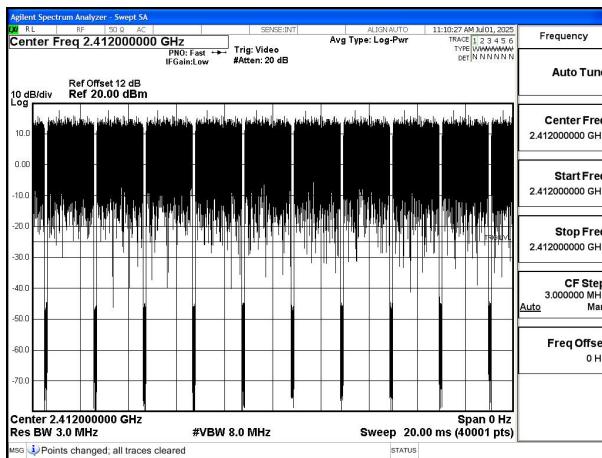


Fig.3



## 7 APPENDIX 2 BLE

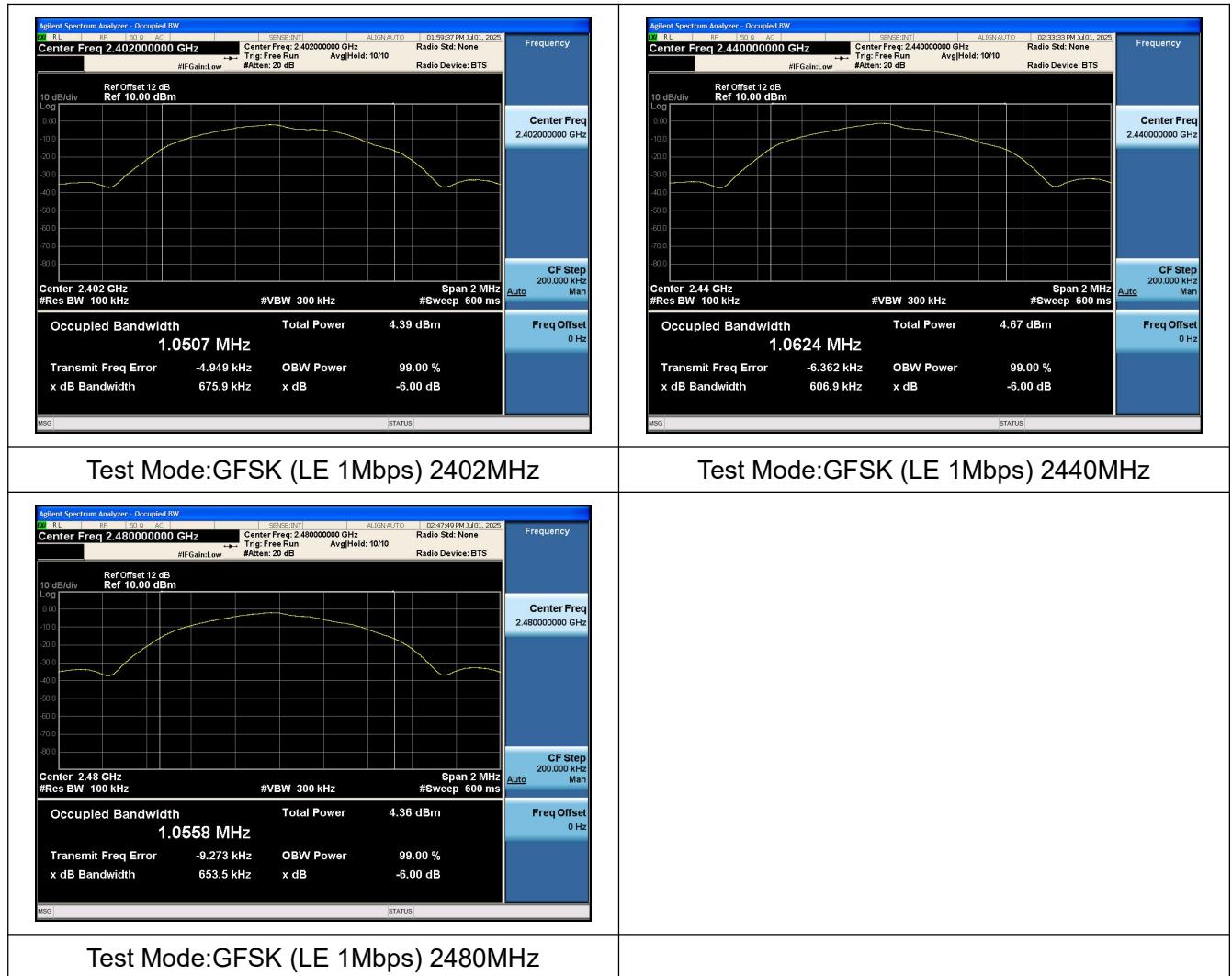
### DTS BANDWIDTH

#### TEST RESULT

Test Mode	Carrier frequency (MHz)	6dB Bandwidth(KHz)
GFSK (LE 1Mbps)	2402	675.9
GFSK (LE 1Mbps)	2440	606.9
GFSK (LE 1Mbps)	2480	653.5

#### TEST GRAPHS

Test Mode: GFSK (LE 1Mbps)



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Test Report No.: PSU-NQN2507020111RF01

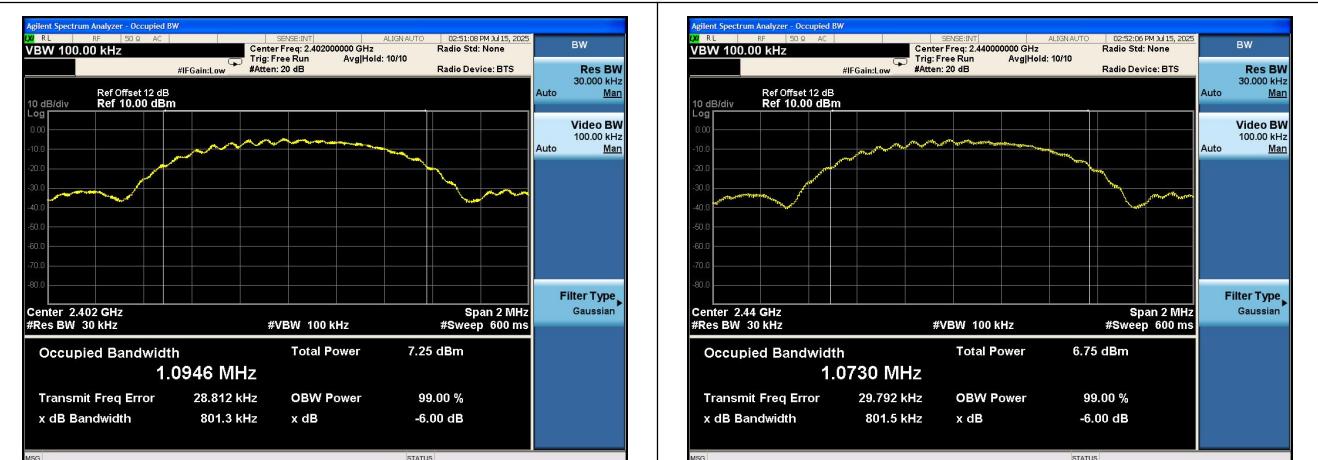
## OCCUPIED CHANNEL BANDWIDTH

### TEST RESULT

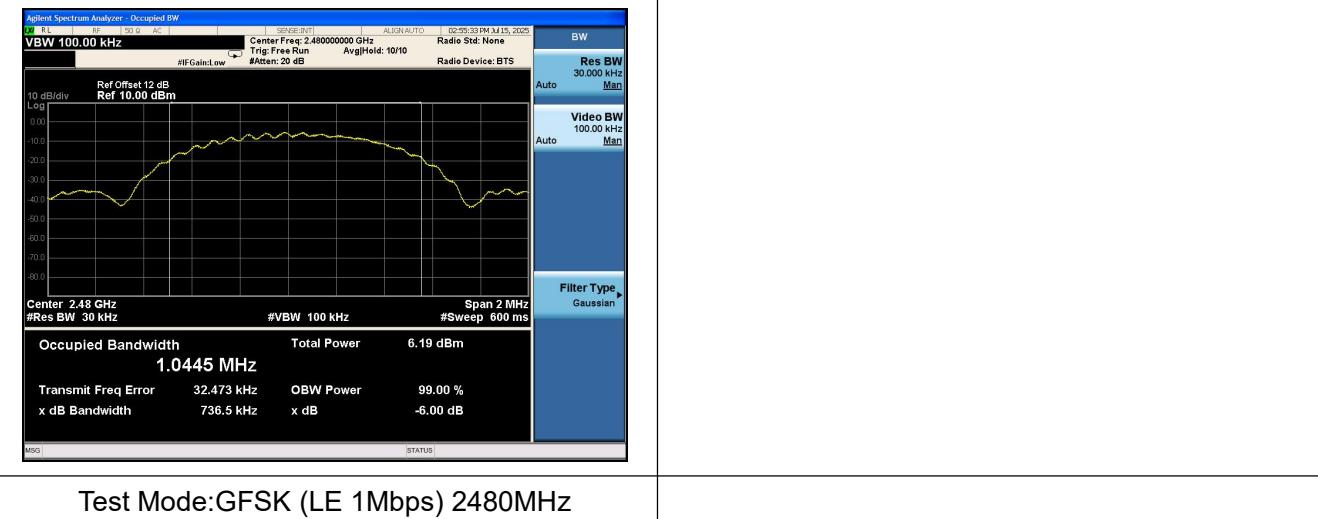
Test Mode	Carrier frequency (MHz)	99% Bandwidth(kHz)
GFSK (LE 1Mbps)	2402	1094.6
GFSK (LE 1Mbps)	2440	1073.0
GFSK (LE 1Mbps)	2480	1044.5

### TEST GRAPHS

Test Mode: GFSK (LE 1Mbps)



Test Mode: GFSK (LE 1Mbps) 2402MHz





## MAXIMUM CONDUCTED OUTPUT POWER

### TEST RESULT

#### Conducted Power

Modulation type	Conducted Peak Power(dBm)		
	2402MHz	2440MHz	2480MHz
GFSK (LE 1Mbps)	6.51	6.93	6.63

Modulation type	Conducted Average Power(dBm)		
	2402MHz	2440MHz	2480MHz
GFSK (LE 1Mbps)	5.61	6.18	6.33

#### EIRP

Modulation type	Peak EIRP(dBm)		
	2402MHz	2440MHz	2480MHz
GFSK (LE 1Mbps)	6.81	7.23	6.93

Modulation type	Average EIRP(dBm)		
	2402MHz	2440MHz	2480MHz
GFSK (LE 1Mbps)	5.91	6.48	6.63

EIRP (dBm)=Conducted Power(dBm)+Antenna Gain(dBi)



## MAXIMUM POWER SPECTRAL DENSITY

### TEST RESULT

Test Mode	Carrier frequency (MHz)	Channel No.	Power Density (dBm/3kHz)
GFSK (LE 1Mbps)	2402	0	-9.1
GFSK (LE 1Mbps)	2440	19	-8.3
GFSK (LE 1Mbps)	2480	39	-9.8

### TEST GRAPHS

Test Mode: GFSK (LE 1Mbps)

