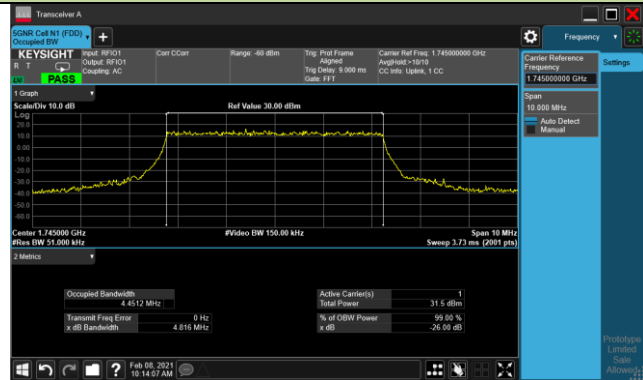


## 99% Bandwidth - QPSK

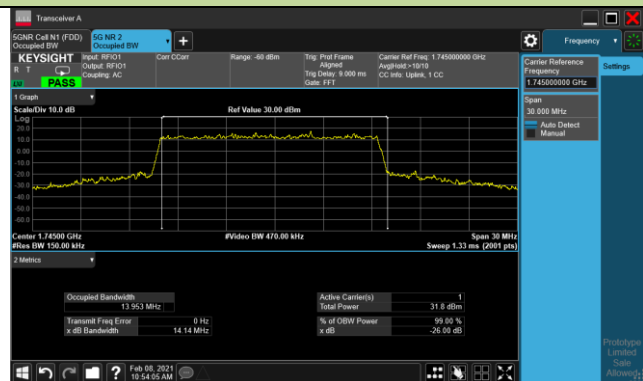
## 5MHz Channel Bandwidth



## 10MHz Channel Bandwidth



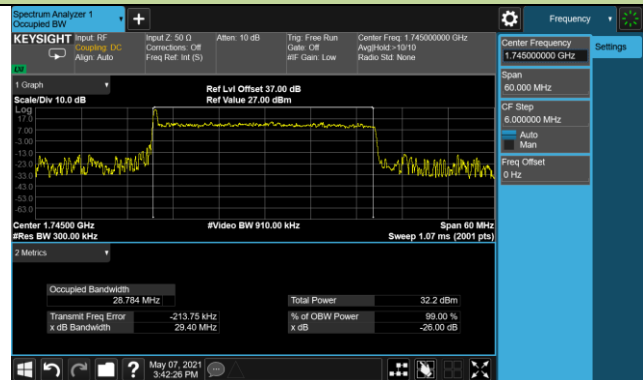
## 15MHz Channel Bandwidth



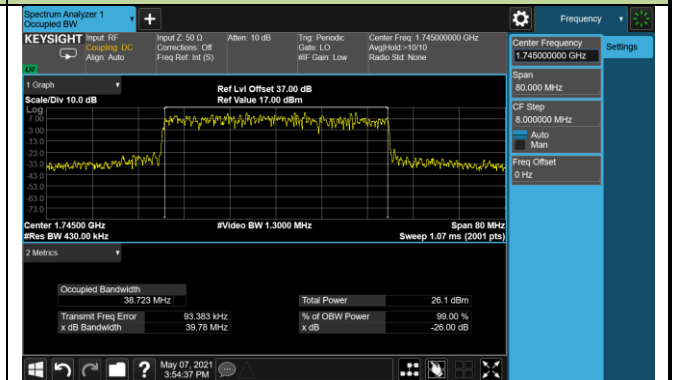
## 20MHz Channel Bandwidth



## 30MHz Channel Bandwidth

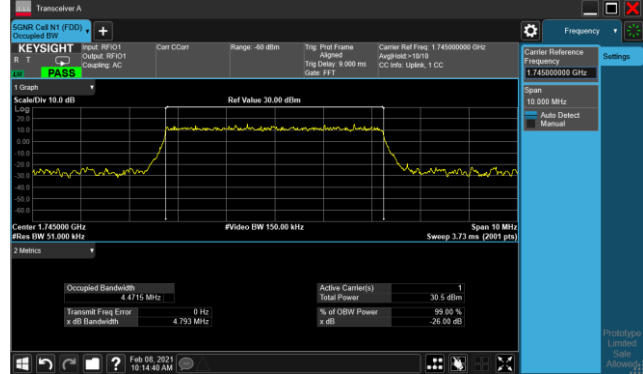


## 40MHz Channel Bandwidth

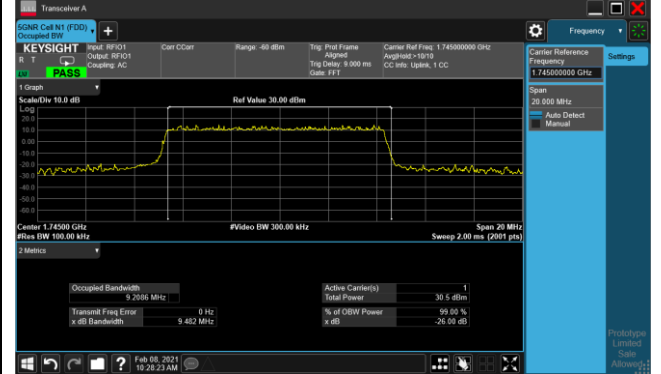


99% Bandwidth - 16QAM

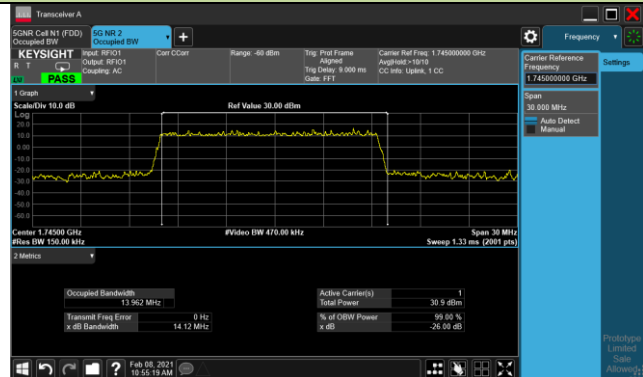
5MHz Channel Bandwidth



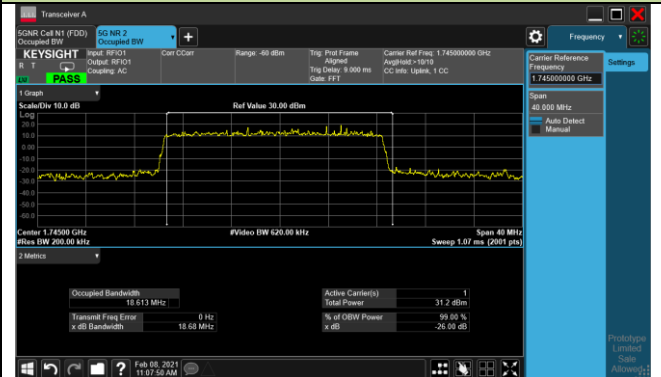
10MHz Channel Bandwidth



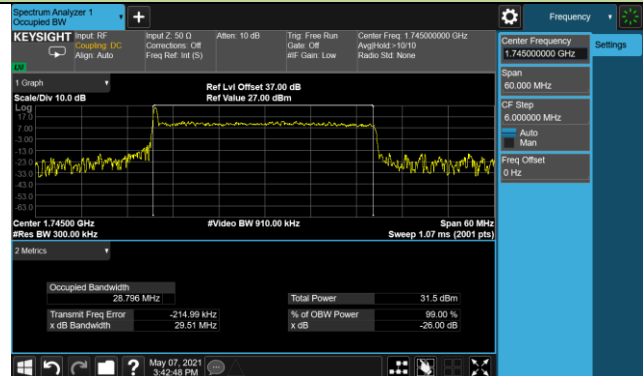
15MHz Channel Bandwidth



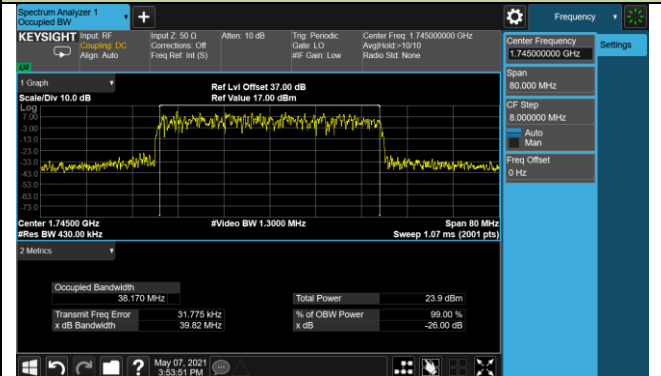
20MHz Channel Bandwidth



30MHz Channel Bandwidth

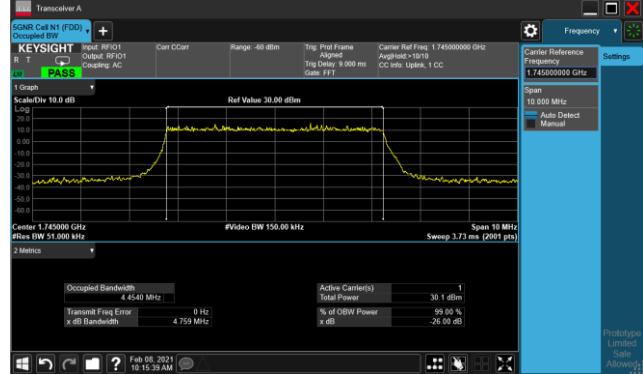


40MHz Channel Bandwidth

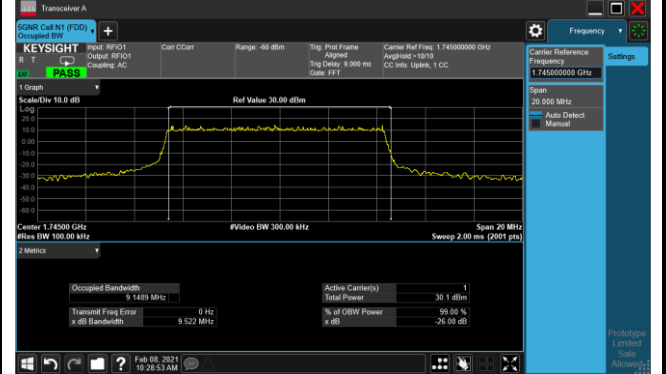


## 99% Bandwidth - 64QAM

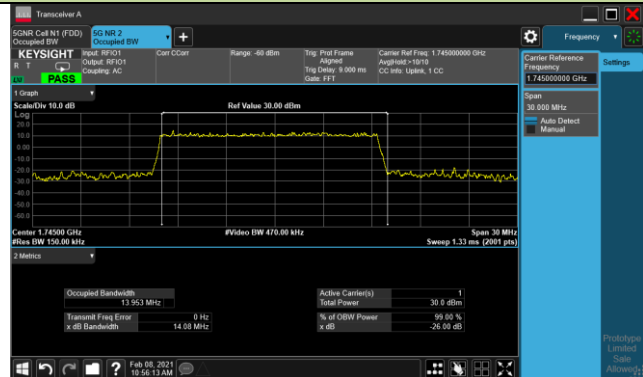
## 5MHz Channel Bandwidth



## 10MHz Channel Bandwidth



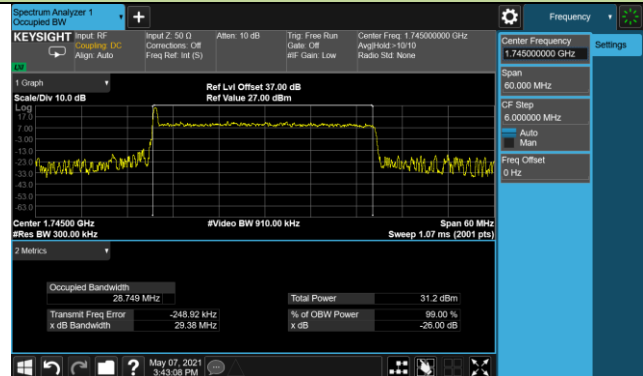
## 15MHz Channel Bandwidth



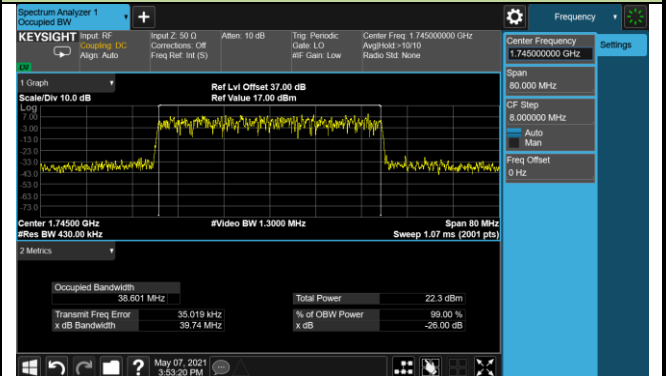
## 20MHz Channel Bandwidth

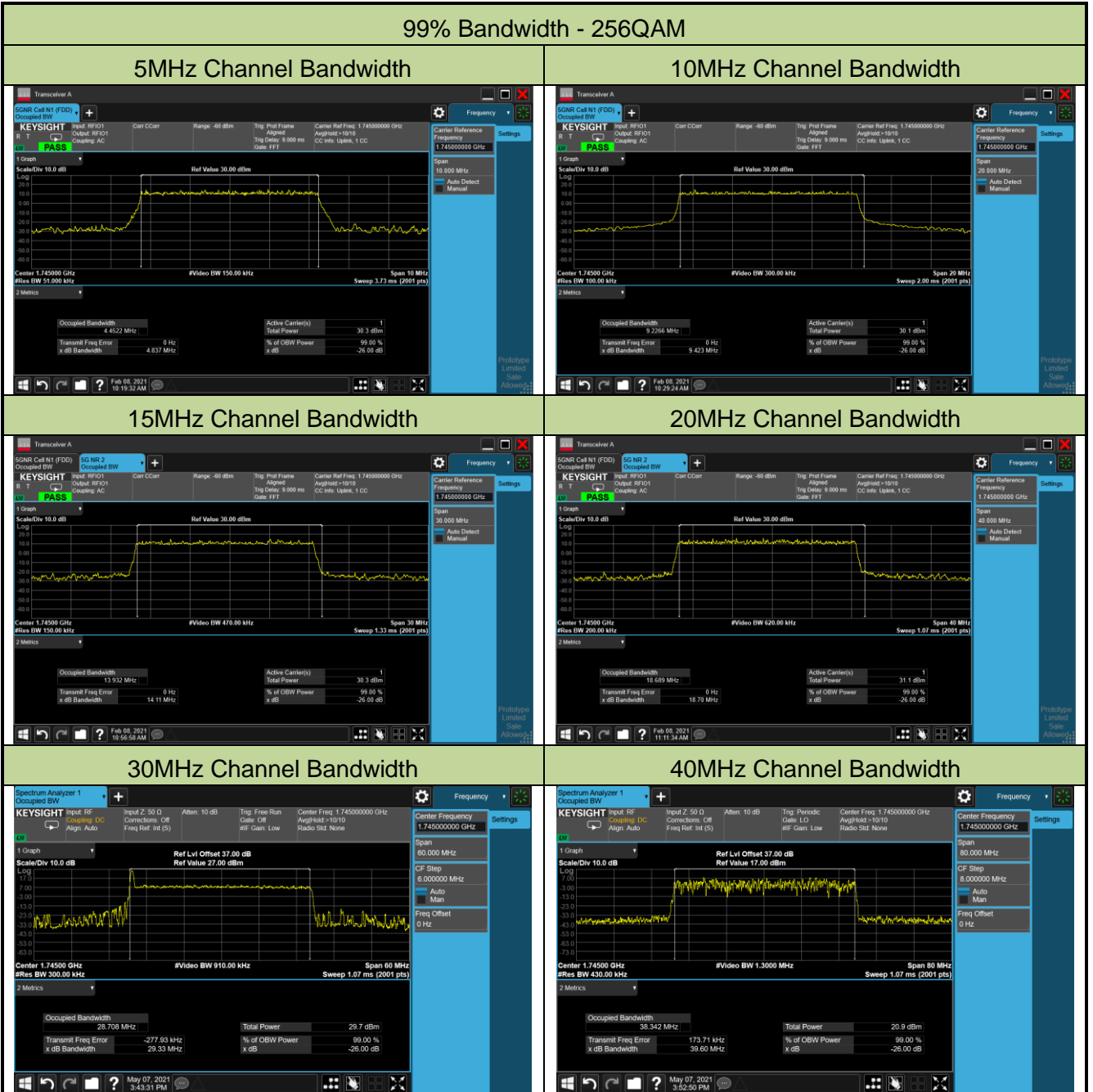


## 30MHz Channel Bandwidth



## 40MHz Channel Bandwidth





Product	5G Sub-6 GHz M.2 Module	Test Site	SIP-SR5
Test Engineer	Gordon Qi	Test Date	2021/02/08
Test Band	n71		

Channel	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
<b>PI/2 BPSK</b>			
136100	680.5	5	4.45
136100	680.5	10	9.21
136100	680.5	15	13.96
136100	680.5	20	18.57
<b>QPSK</b>			
136100	680.5	5	4.44
136100	680.5	10	9.17
136100	680.5	15	13.92
136100	680.5	20	18.54
<b>16QAM</b>			
136100	680.5	5	4.47
136100	680.5	10	9.21
136100	680.5	15	13.95
136100	680.5	20	18.47
<b>64QAM</b>			
136100	680.5	5	4.45
136100	680.5	10	9.18
136100	680.5	15	13.95
136100	680.5	20	18.54
<b>256QAM</b>			
136100	680.5	5	4.45
136100	680.5	10	9.23
136100	680.5	15	13.93
136100	680.5	20	18.53

99% Bandwidth - PI/2 BPSK

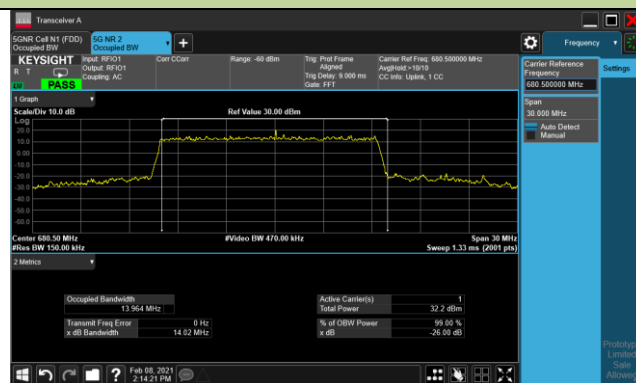
5MHz Channel Bandwidth



10MHz Channel Bandwidth



15MHz Channel Bandwidth

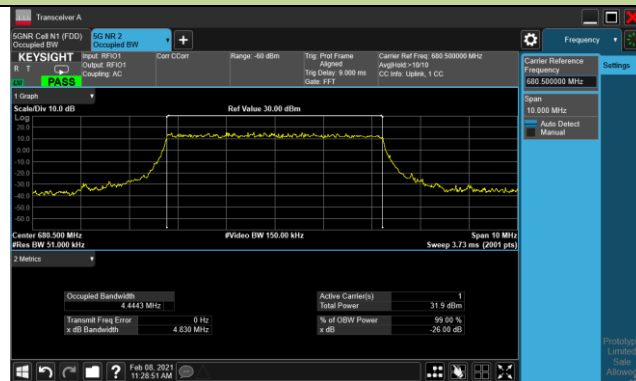


20MHz Channel Bandwidth



99% Bandwidth - QPSK

5MHz Channel Bandwidth



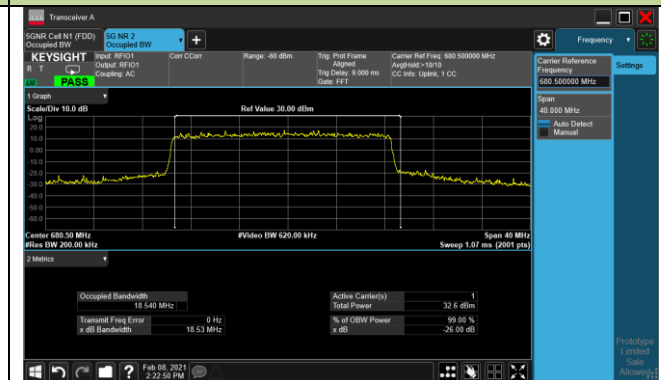
10MHz Channel Bandwidth



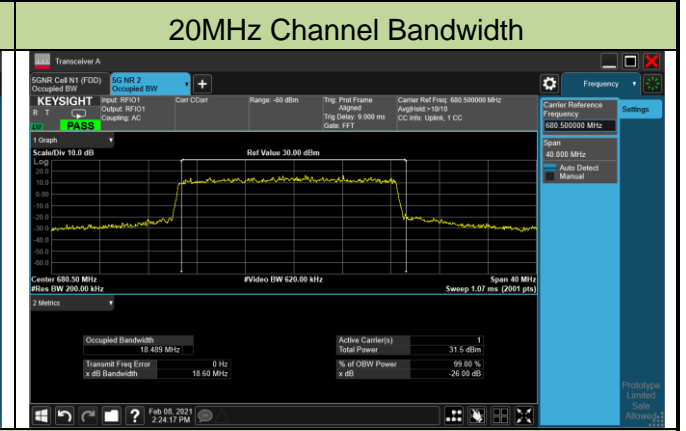
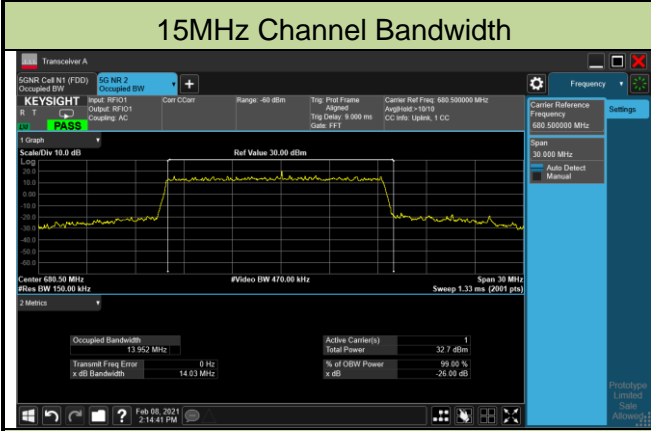
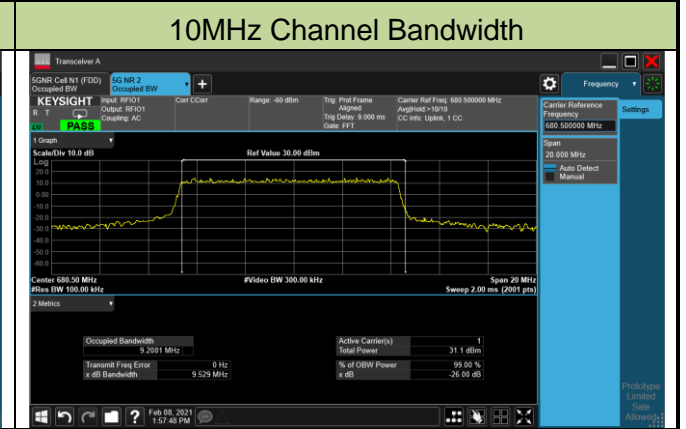
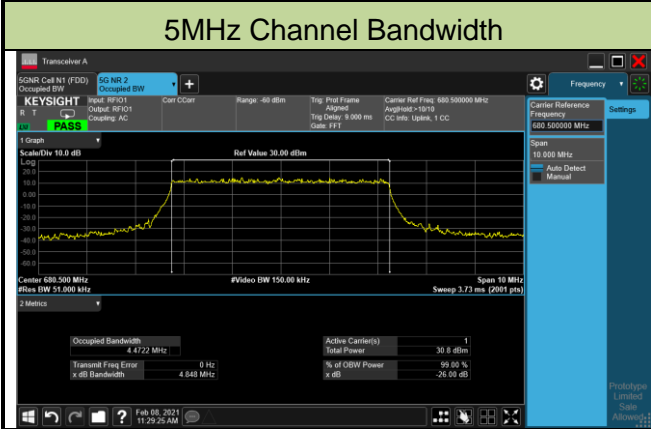
15MHz Channel Bandwidth



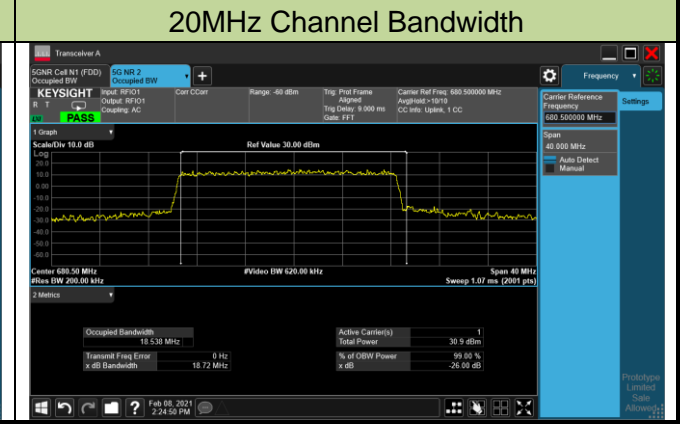
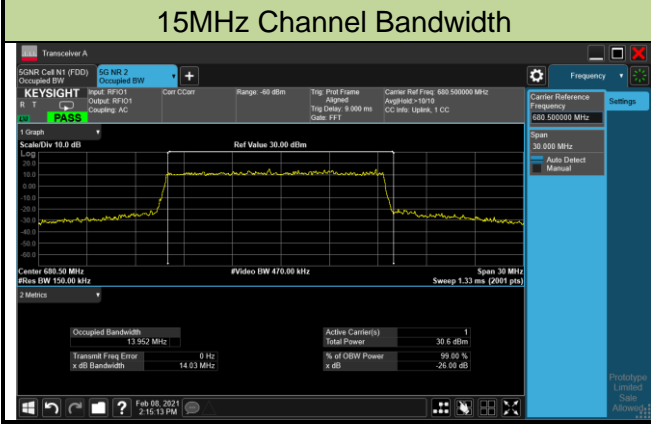
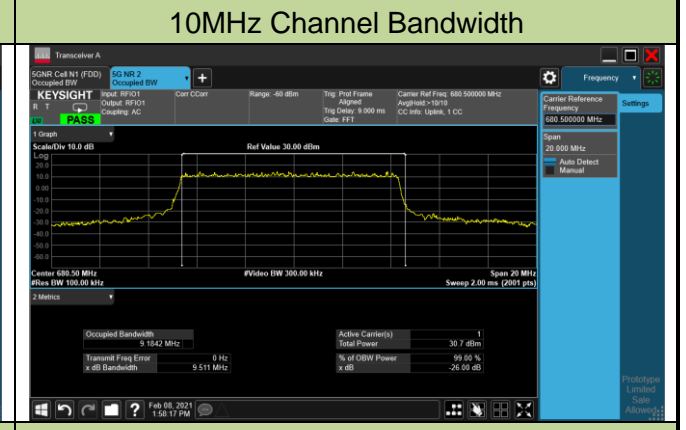
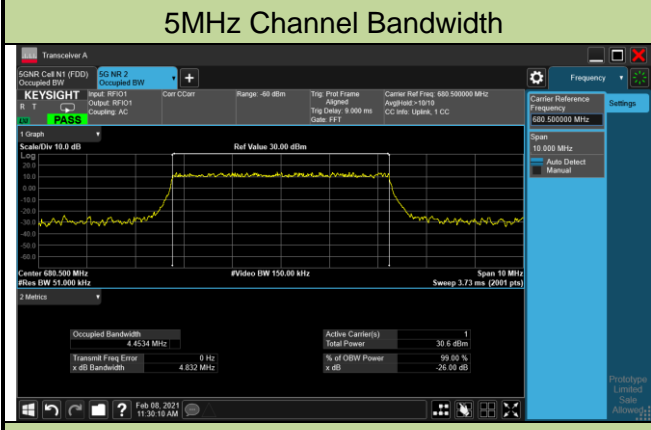
20MHz Channel Bandwidth

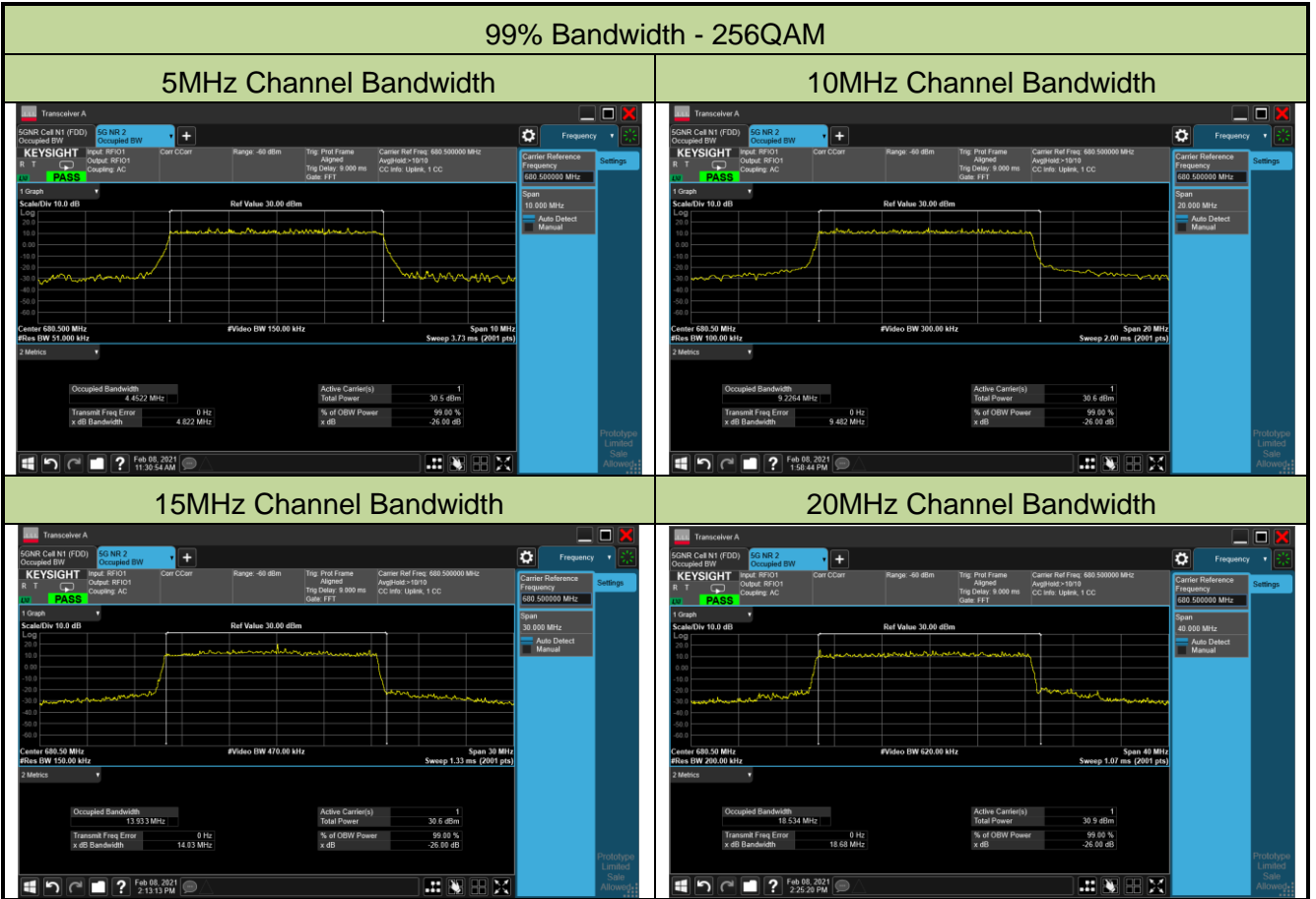


**99% Bandwidth - 16QAM**



**99% Bandwidth - 64QAM**







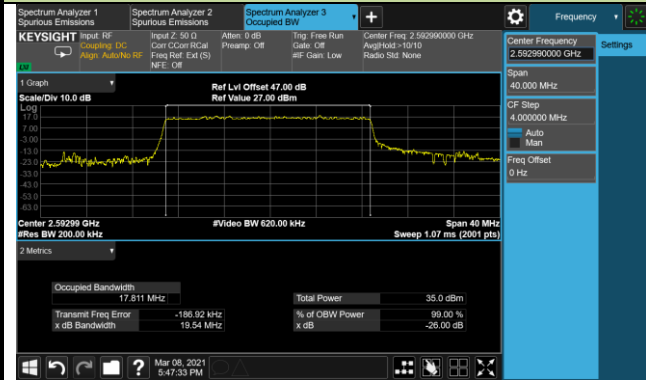
Product	5G Sub-6 GHz M.2 Module	Test Site	SIP-SR5
Test Engineer	Gordon Qi	Test Date	2021/03/08
Test Band	n41_HPUE		

Channel	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
<b>PI/2 BPSK</b>			
518598	2592.99	20	17.81
518598	2592.99	30	26.75
518598	2592.99	40	35.65
518598	2592.99	50	45.57
518598	2592.99	60	57.71
518598	2592.99	80	76.89
518598	2592.99	90	86.63
518598	2592.99	100	96.23
<b>QPSK</b>			
518598	2592.99	20	17.82
518598	2592.99	30	26.78
518598	2592.99	40	35.65
518598	2592.99	50	45.77
518598	2592.99	60	57.73
518598	2592.99	80	76.81
518598	2592.99	90	86.50
518598	2592.99	100	96.19
<b>16QAM</b>			
518598	2592.99	20	17.89
518598	2592.99	30	26.80
518598	2592.99	40	35.66
518598	2592.99	50	45.70
518598	2592.99	60	57.63
518598	2592.99	80	76.91
518598	2592.99	90	86.64
518598	2592.99	100	96.21

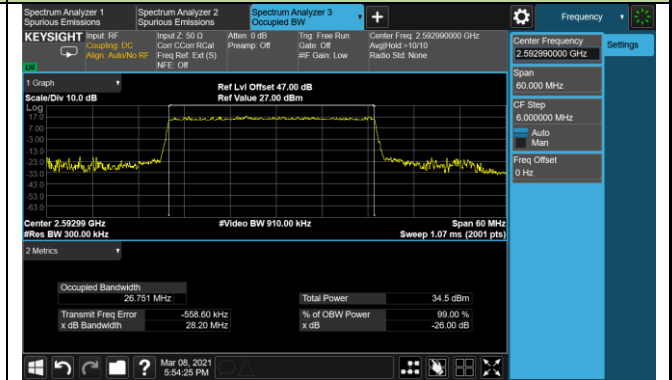
64QAM			
518598	2592.99	20	17.89
518598	2592.99	30	26.76
518598	2592.99	40	35.62
518598	2592.99	50	45.61
518598	2592.99	60	57.65
518598	2592.99	80	76.80
518598	2592.99	90	86.59
518598	2592.99	100	95.93
256QAM			
518598	2592.99	20	17.85
518598	2592.99	30	26.79
518598	2592.99	40	35.76
518598	2592.99	50	45.58
518598	2592.99	60	57.68
518598	2592.99	80	76.84
518598	2592.99	90	86.53
518598	2592.99	100	95.87

### 99% Bandwidth - PI/2 BPSK

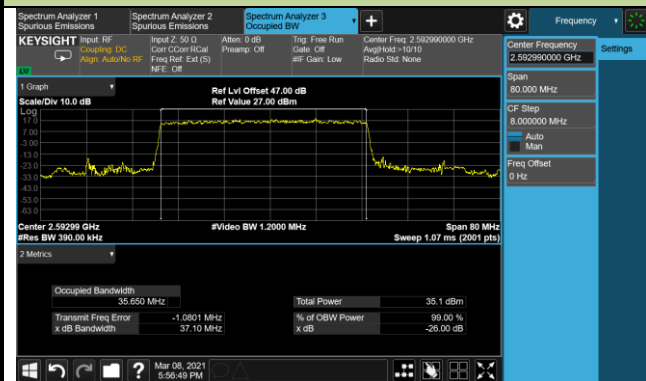
#### 20MHz Channel Bandwidth



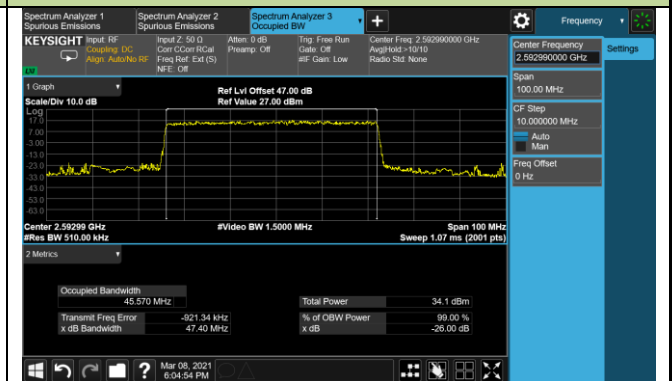
#### 30MHz Channel Bandwidth



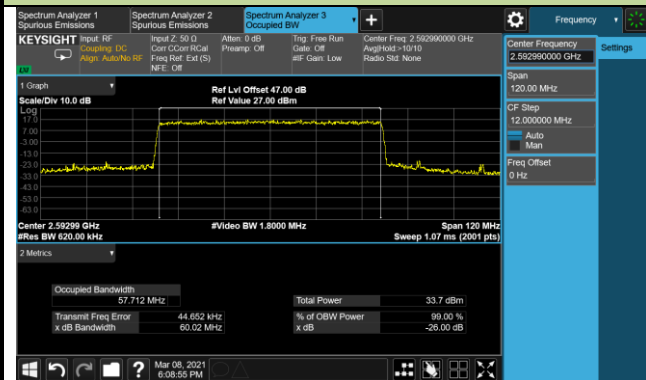
#### 40MHz Channel Bandwidth



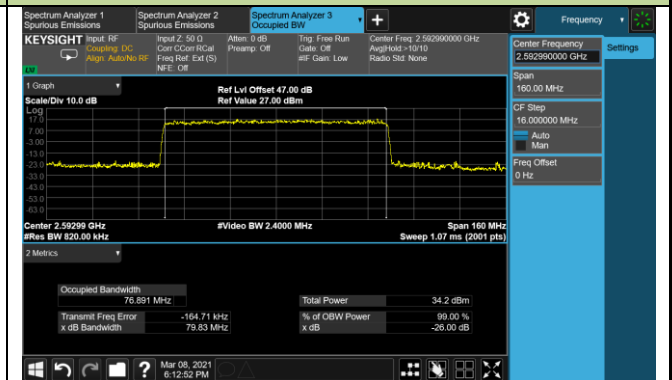
#### 50MHz Channel Bandwidth



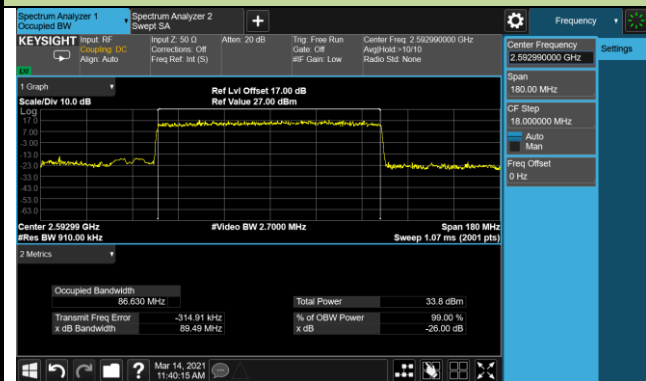
#### 60MHz Channel Bandwidth



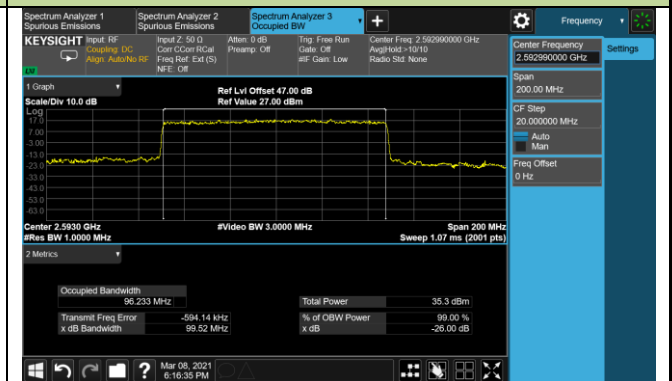
#### 80MHz Channel Bandwidth



#### 90MHz Channel Bandwidth

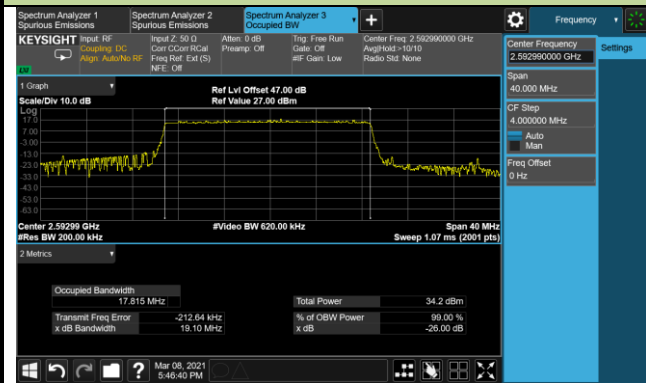


#### 100MHz Channel Bandwidth

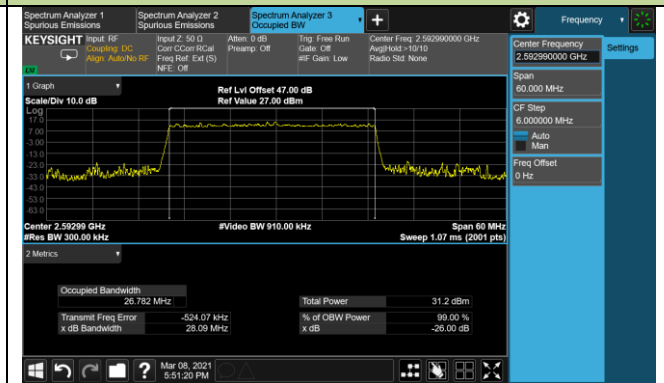


### 99% Bandwidth - QPSK

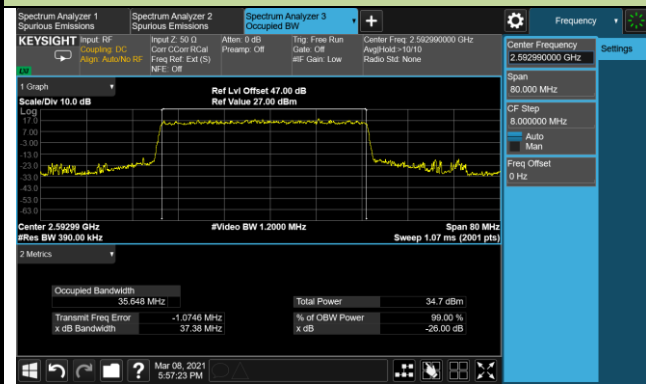
#### 20MHz Channel Bandwidth



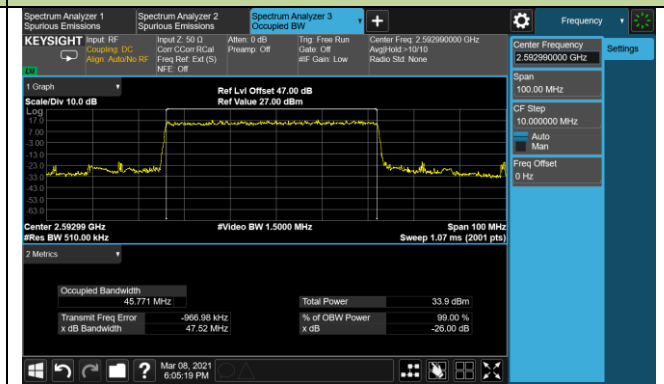
#### 30MHz Channel Bandwidth



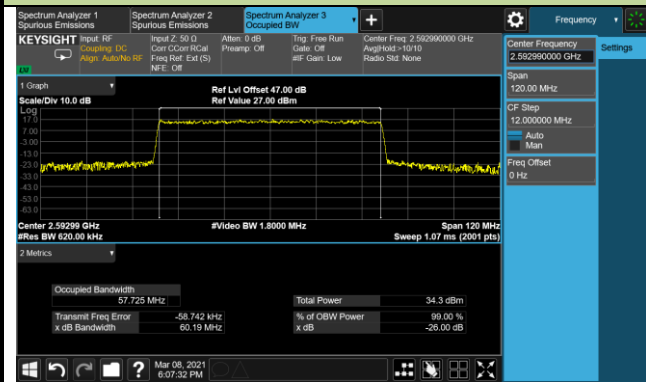
#### 40MHz Channel Bandwidth



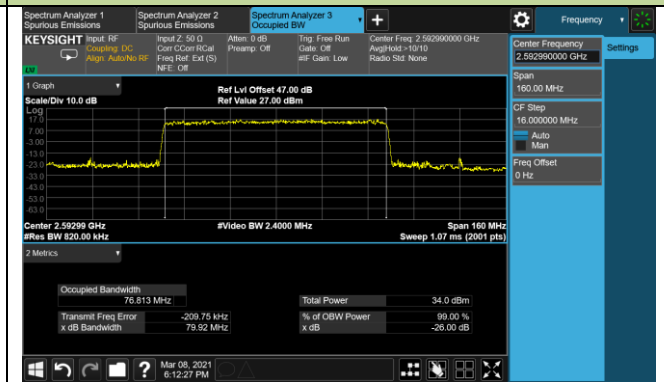
#### 50MHz Channel Bandwidth



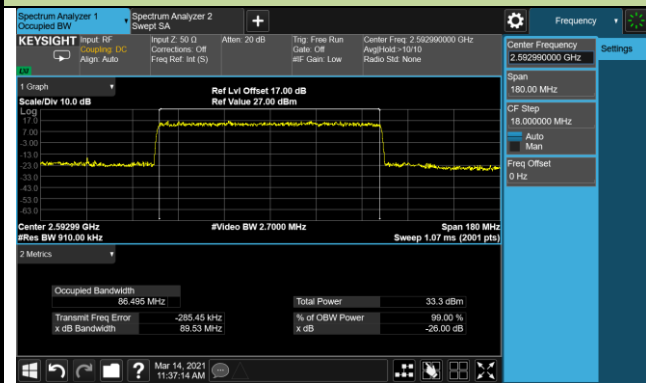
#### 60MHz Channel Bandwidth



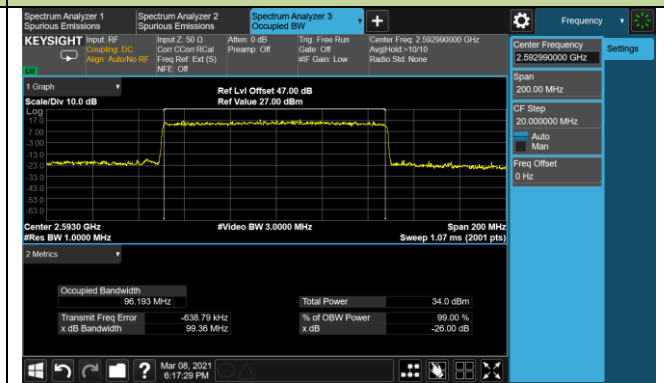
#### 80MHz Channel Bandwidth



#### 90MHz Channel Bandwidth

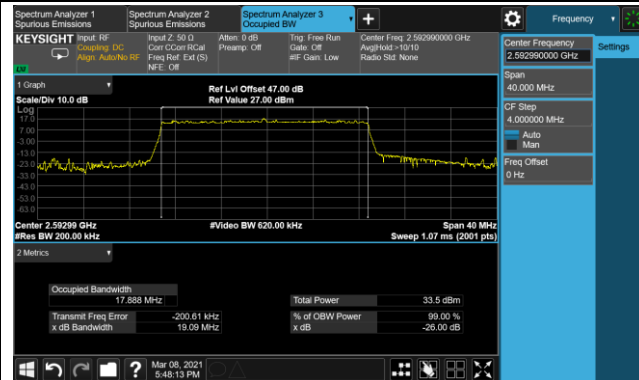


#### 100MHz Channel Bandwidth

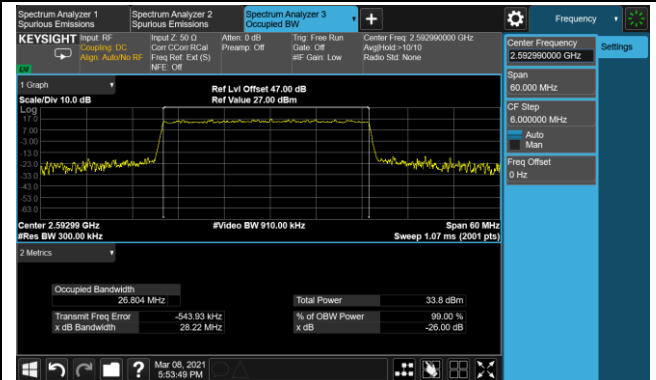


99% Bandwidth - 16QAM

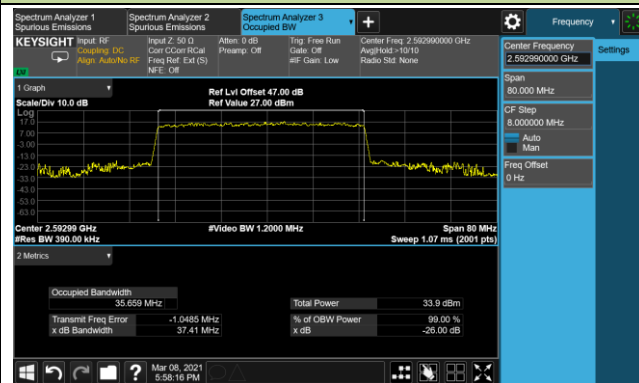
20MHz Channel Bandwidth



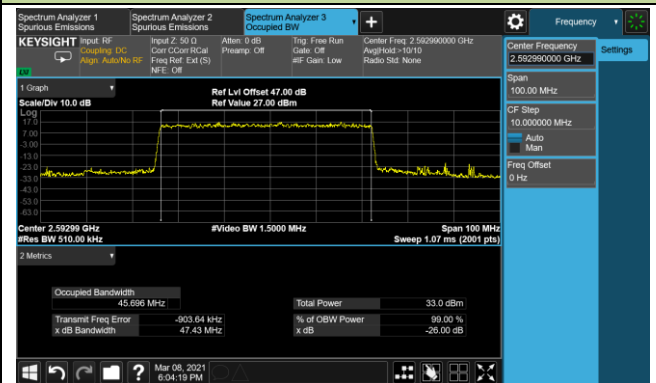
30MHz Channel Bandwidth



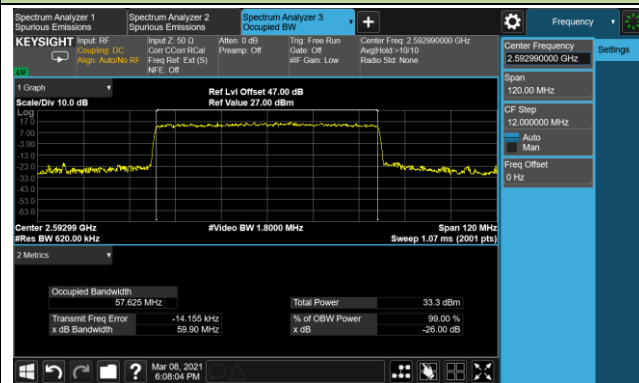
40MHz Channel Bandwidth



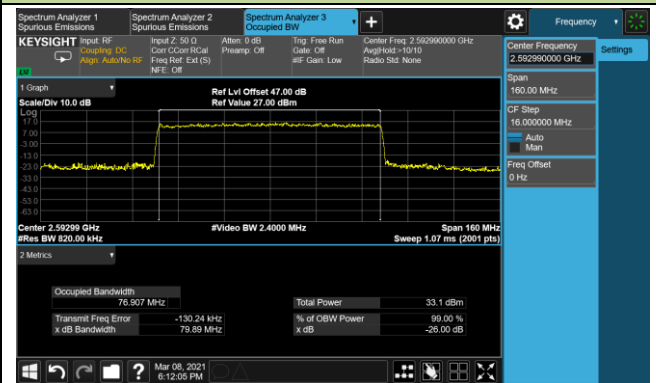
50MHz Channel Bandwidth



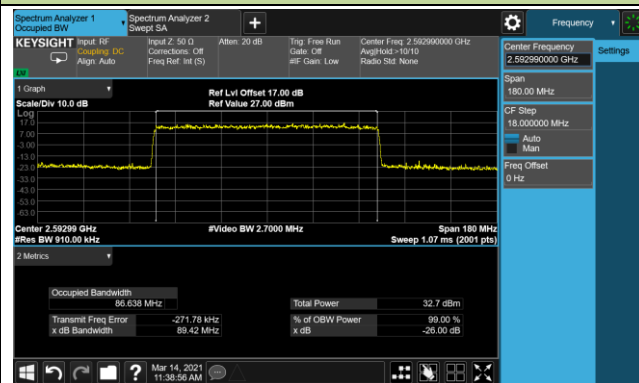
60MHz Channel Bandwidth



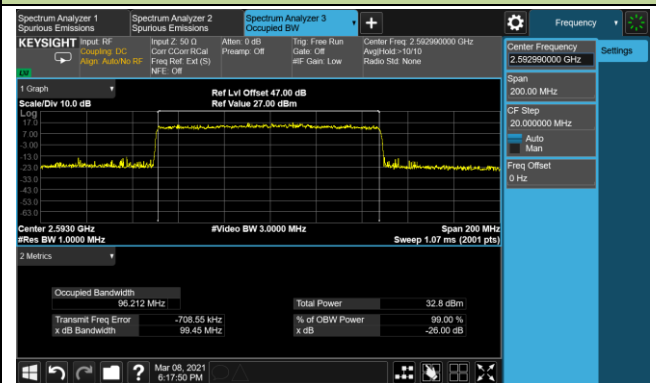
80MHz Channel Bandwidth



90MHz Channel Bandwidth

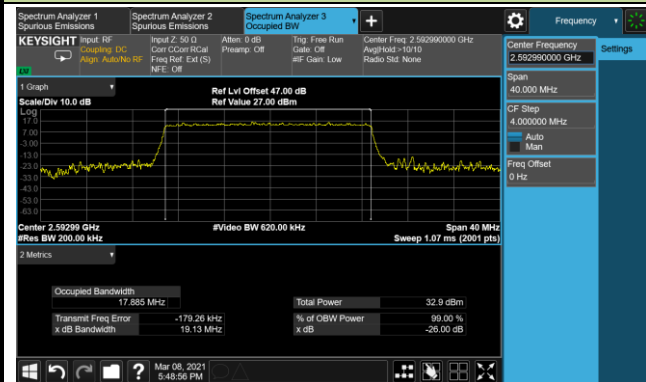


100MHz Channel Bandwidth

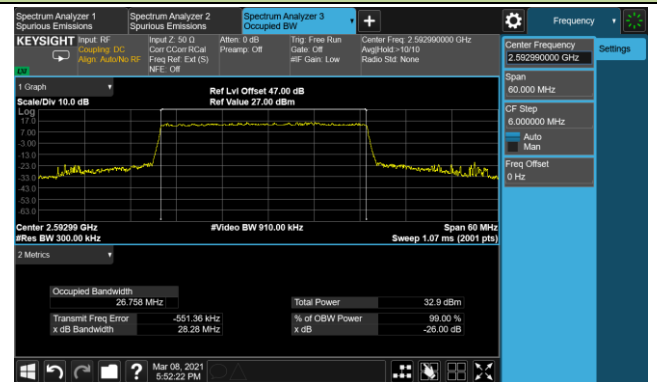


99% Bandwidth - 64QAM

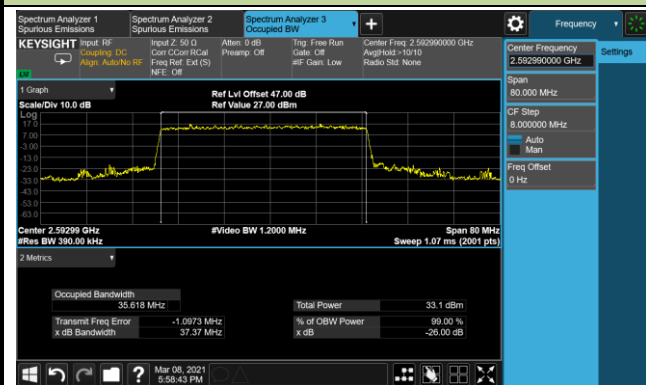
20MHz Channel Bandwidth



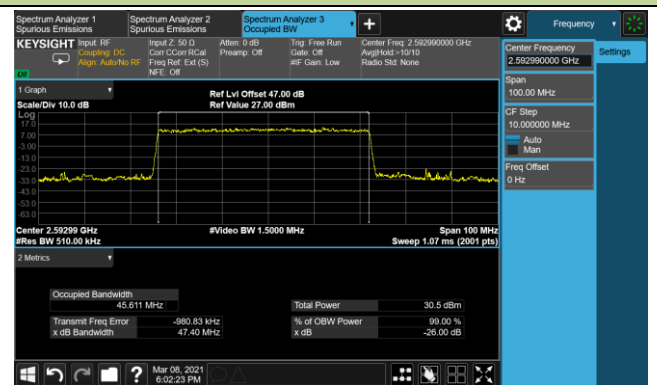
30MHz Channel Bandwidth



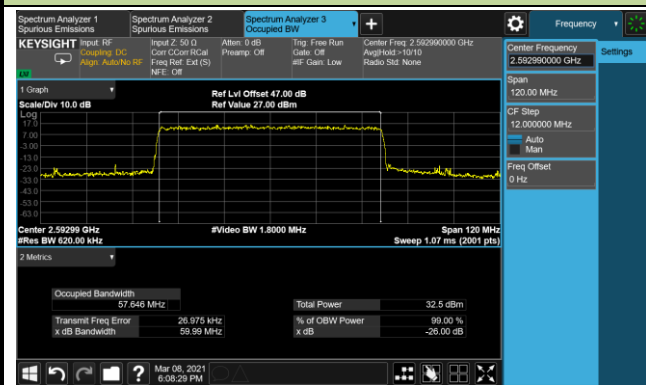
40MHz Channel Bandwidth



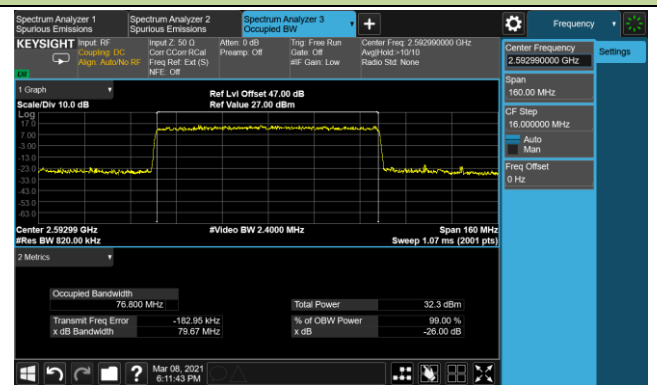
50MHz Channel Bandwidth



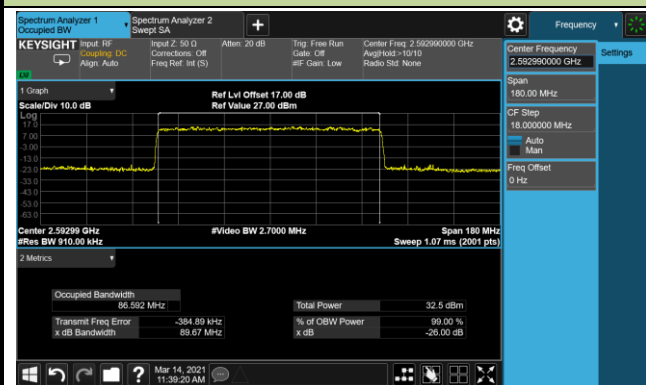
60MHz Channel Bandwidth



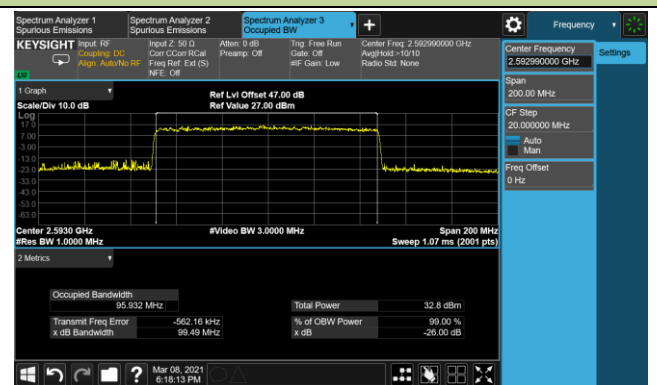
80MHz Channel Bandwidth

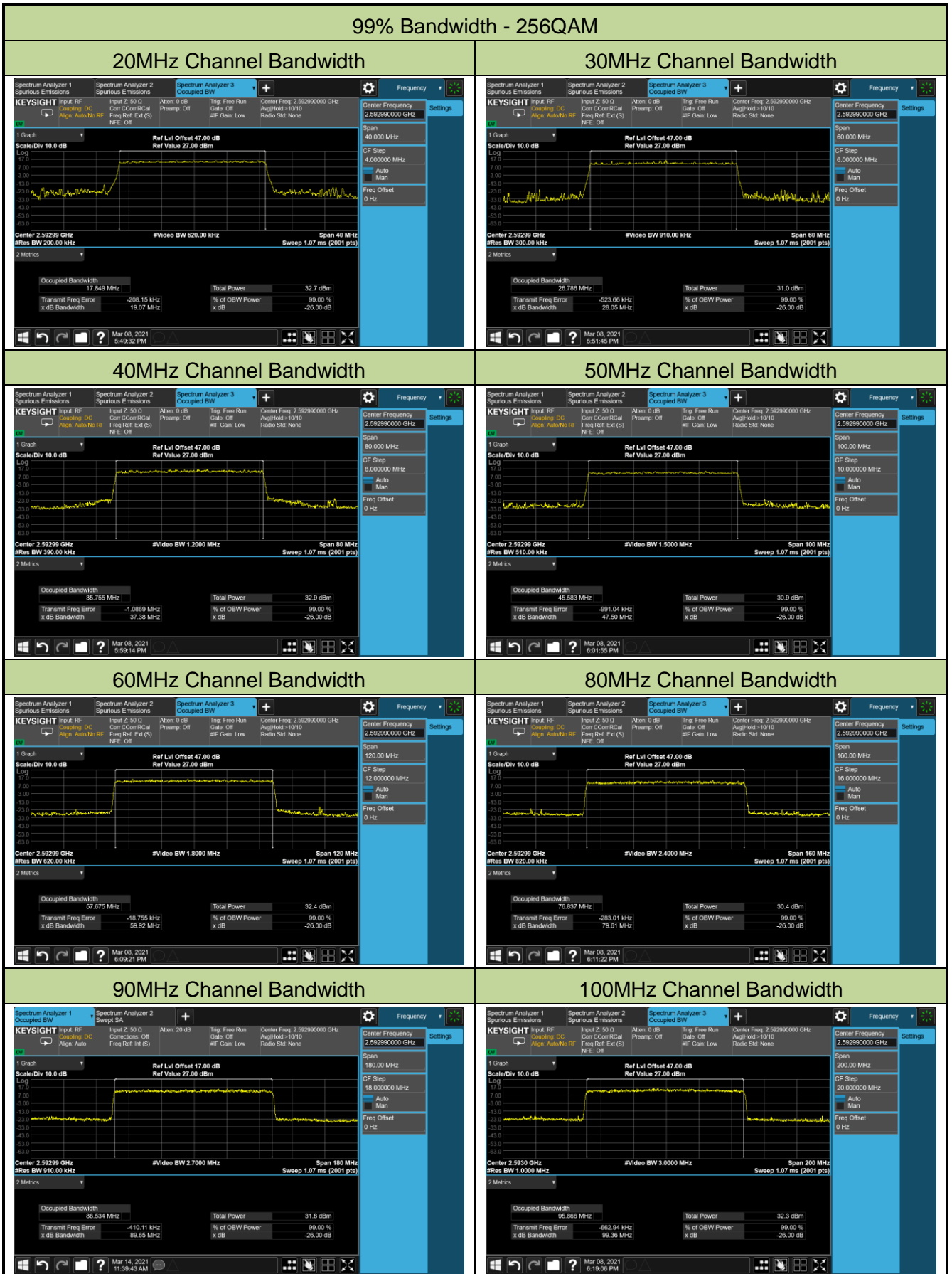


90MHz Channel Bandwidth



100MHz Channel Bandwidth





Product	5G Sub-6 GHz M.2 Module	Test Site	SIP-SR5
Test Engineer	Gordon Qi	Test Date	2021/03/07
Test Band	n77_HPUE		

Channel	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
<b>PI/2 BPSK</b>			
656000	3864.99	20	18.00
656000	3864.99	40	35.67
656000	3864.99	50	45.63
656000	3864.99	60	57.84
656000	3864.99	80	76.88
656000	3864.99	90	86.68
656000	3864.99	100	96.12
<b>QPSK</b>			
656000	3864.99	20	18.56
656000	3864.99	40	35.61
656000	3864.99	50	45.67
656000	3864.99	60	57.82
656000	3864.99	80	76.90
656000	3864.99	90	86.74
656000	3864.99	100	96.17
<b>16QAM</b>			
656000	3864.99	20	17.84
656000	3864.99	40	35.71
656000	3864.99	50	45.69
656000	3864.99	60	57.73
656000	3864.99	80	76.93
656000	3864.99	90	86.78
656000	3864.99	100	96.23



64QAM			
656000	3864.99	20	17.86
656000	3864.99	40	35.67
656000	3864.99	50	45.76
656000	3864.99	60	57.76
656000	3864.99	80	76.99
656000	3864.99	90	86.77
656000	3864.99	100	96.24
256QAM			
656000	3864.99	20	17.82
656000	3864.99	40	35.77
656000	3864.99	50	45.62
656000	3864.99	60	57.74
656000	3864.99	80	76.92
656000	3864.99	90	86.55
656000	3864.99	100	96.06