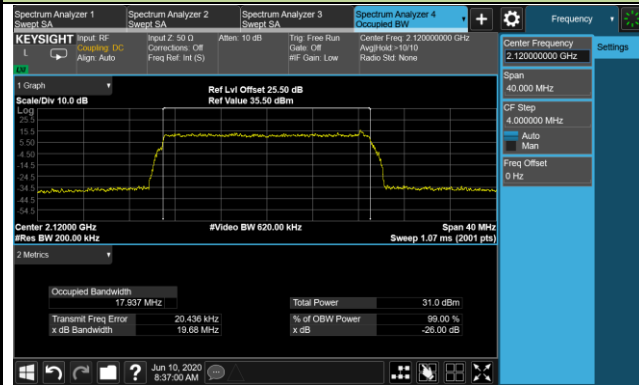
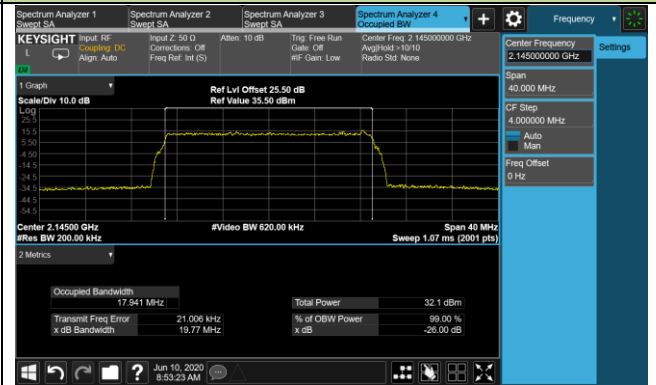


20MHz Channel Bandwidth - Carrier Position 95 kHz

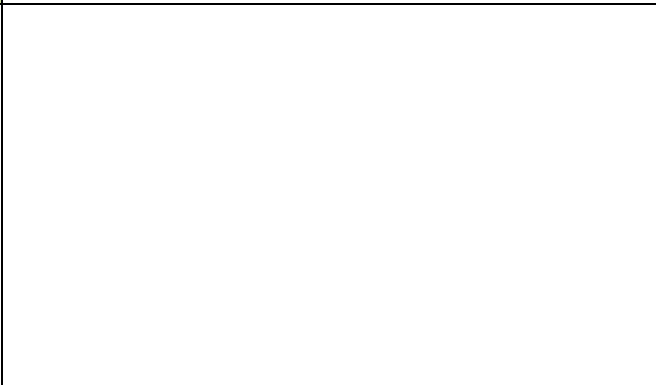
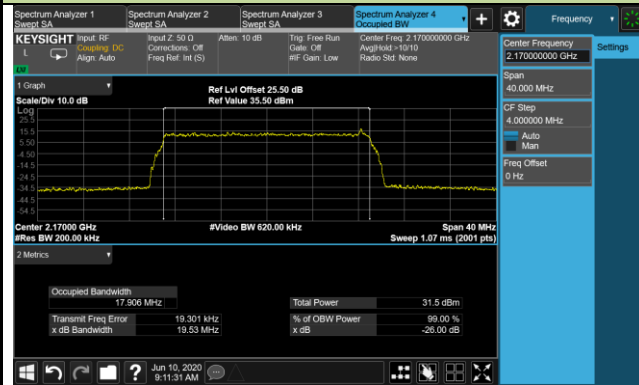
Bottom Channel



Middle Channel



Top Channel



## 6.4. Band Edge Measurement

### 6.4.1. Test Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. The emission limit equal to -13dBm.

This device can be implelement MIMO function, so the limit of spurious emissions needs to be reduced by  $10 \cdot \log(\text{Numbers}_{\text{Ant}})$  according to FCC KDB 662911 D01 guidance.

The limit is adjusted to  $-13 \text{ dBm} - 10 \cdot \log(2) = -16.01 \text{ dBm}$

### 6.4.2. Test Procedure Used

KDB 971168 D01v03r01 - Section 6.1

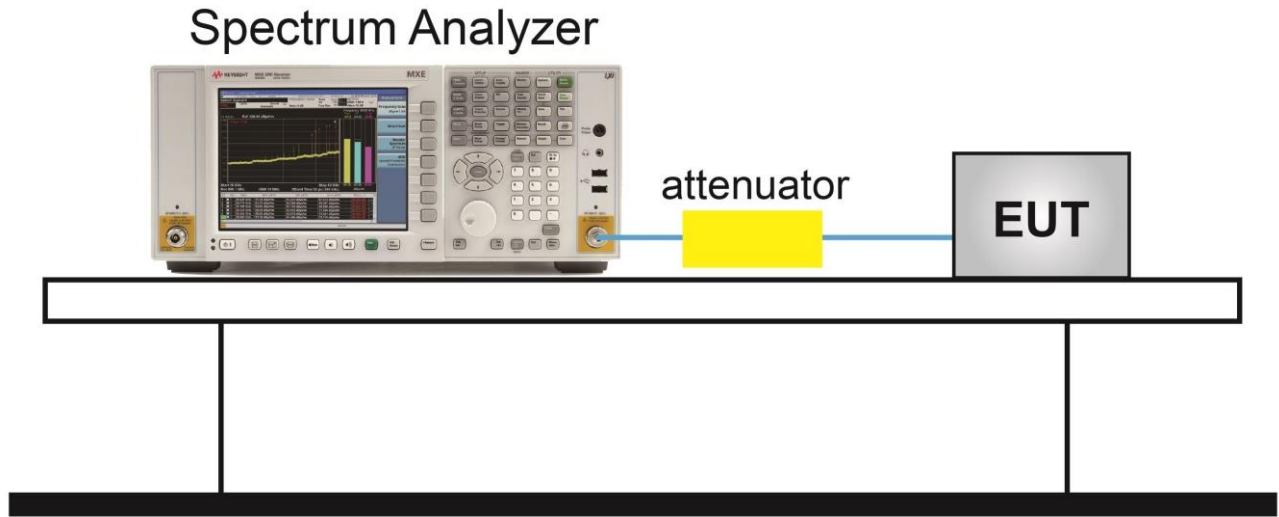
ANSI C63.26-2015 - Section 5.7.1

### 6.4.3. Test Setting

1. Set the analyzer frequency to low or high channel.
1. RBW = The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW;
2. VBW  $\geq 3 \cdot$ RBW
3. Sweep time = auto
4. Detector = power averaging (rms)
5. Set sweep trigger to "free run."
6. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple.

To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

### 6.4.4. Test Setup



**6.4.5. Test Setup**

Product	AirScale Indoor Radio ASiR-pRRH	Test Engineer	Peter Xu
Test Site	SR6	Test Date	2020/06/05 ~ 2020/06/06
Test Configuration	LTE Band 2 (Single Carrier)		

Frequency (MHz)	Carrier Position (kHz)	Channel Bandwidth (MHz)	Max Band Edge (dBm)		Limit (dBm)	Result
			Ant 0	Ant 1		
Guard band						
1935	-4597.5	10	-31.22	-30.66	≤ -16.01	Pass
1985	4597.5	10	-32.09	-32.89	≤ -16.01	Pass
1937.5	-6892.5	15	-33.37	-33.10	≤ -16.01	Pass
1982.5	6892.5	15	-34.28	-34.78	≤ -16.01	Pass
1940	-9097.5	20	-36.50	-34.97	≤ -16.01	Pass
1980	9097.5	20	-37.68	-37.02	≤ -16.01	Pass
In band						
1935	4	10	-32.74	-33.96	≤ -16.01	Pass
1985	45	10	-35.61	-36.00	≤ -16.01	Pass
1937.5	2	15	-34.36	-35.42	≤ -16.01	Pass
1982.5	72	15	-35.96	-37.59	≤ -16.01	Pass
1940	2	20	-35.12	-35.56	≤ -16.01	Pass
1980	95	20	-37.82	-38.71	≤ -16.01	Pass

Product	AirScale Indoor Radio ASiR-pRRH	Test Engineer	Peter Xu
Test Site	SR6	Test Date	2020/06/08
Test Configuration	LTE Band 66 (Single Carrier)		

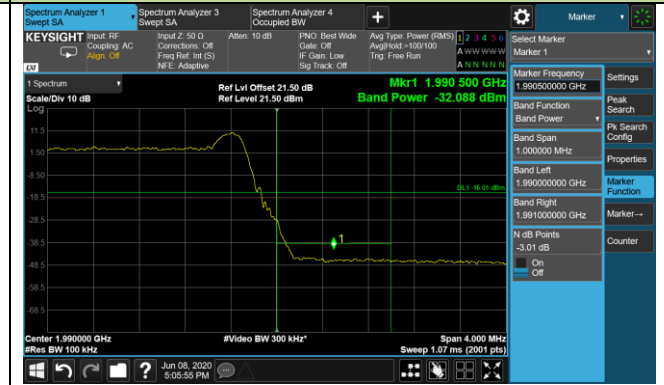
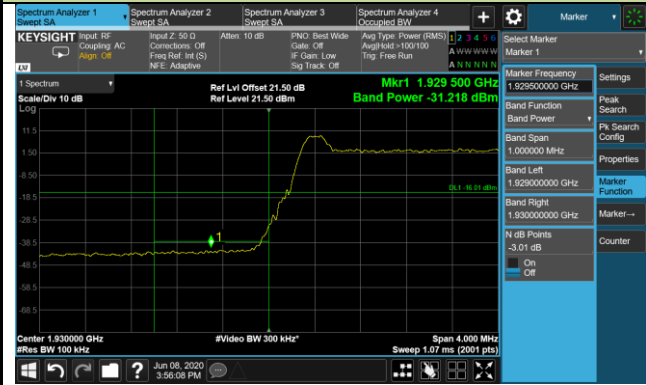
Frequency (MHz)	Carrier Position (kHz)	Channel Bandwidth (MHz)	Max Band Edge (dBm)		Limit (dBm)	Result
			Ant 0	Ant 1		
<b>Guard band</b>						
2115	-4597.5	10	-32.05	-32.03	≤ -16.01	Pass
2175	4597.5	10	-30.58	-30.47	≤ -16.01	Pass
2117.5	-6892.5	15	-34.06	-33.49	≤ -16.01	Pass
2172.5	6892.5	15	-33.36	-33.08	≤ -16.01	Pass
2120	-9097.5	20	-35.68	-35.41	≤ -16.01	Pass
2170	9097.5	20	-34.88	-34.43	≤ -16.01	Pass
<b>In band</b>						
2115	4	10	-34.28	-34.48	≤ -16.01	Pass
2175	45	10	-33.14	-33.43	≤ -16.01	Pass
2117.5	2	15	-35.60	-35.57	≤ -16.01	Pass
2172.5	72	15	-34.47	-35.14	≤ -16.01	Pass
2120	4	20	-36.70	-36.76	≤ -16.01	Pass
2170	95	20	-35.28	-36.12	≤ -16.01	Pass

Band 2 Guard band

10MHz Channel Bandwidth - Ant 0

Bottom Channel

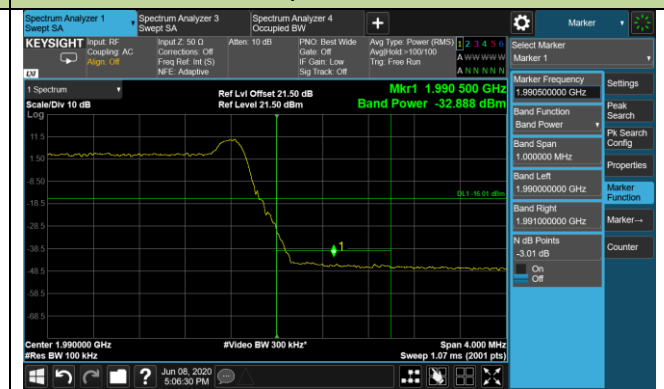
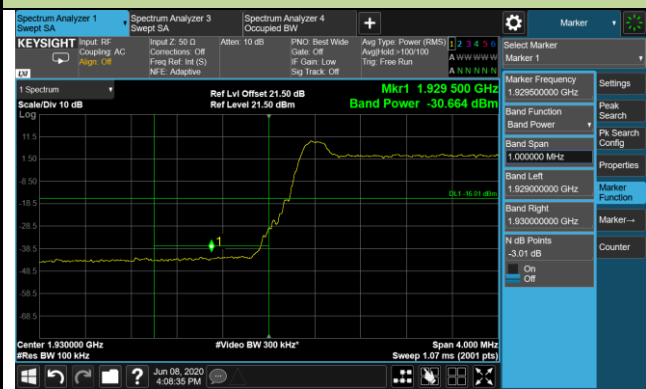
Top Channel



10MHz Channel Bandwidth - Ant 1

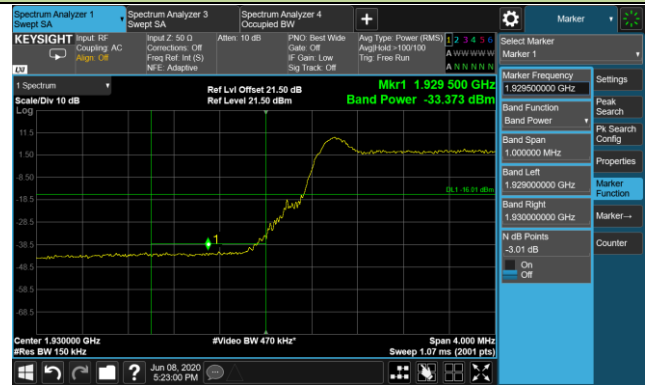
Bottom Channel

Top Channel



### 15MHz Channel Bandwidth - Ant 0

#### Bottom Channel



#### Top Channel

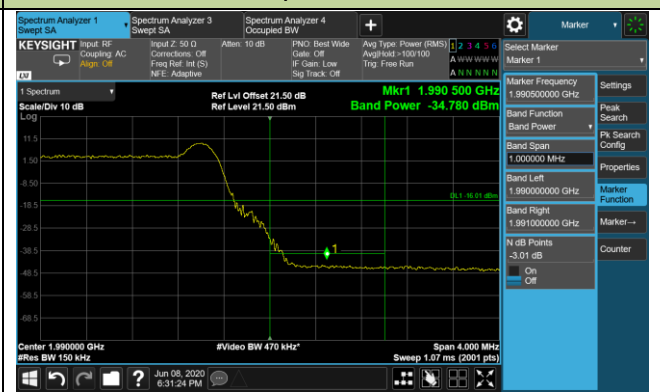


### 15MHz Channel Bandwidth - Ant 1

#### Bottom Channel

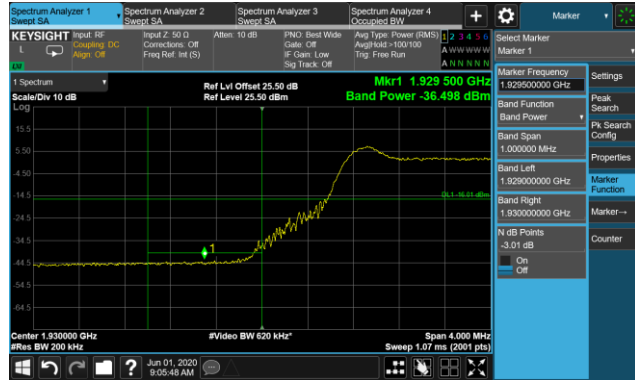


#### Top Channel

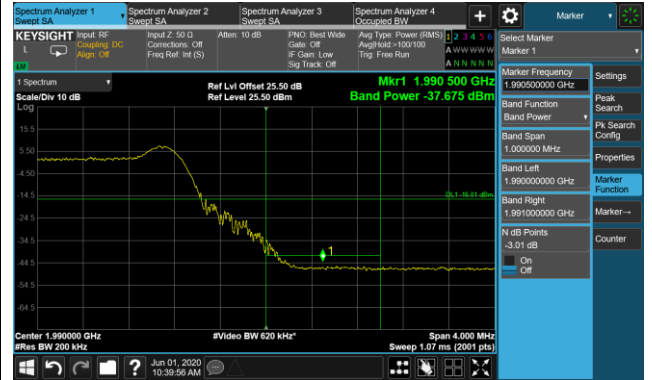


## 20MHz Channel Bandwidth - Ant 0

## Bottom Channel



## Top Channel

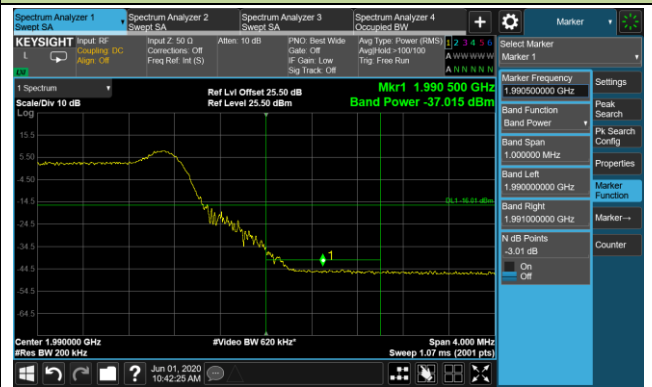


## 20MHz Channel Bandwidth - Ant 1

## Bottom Channel



## Top Channel

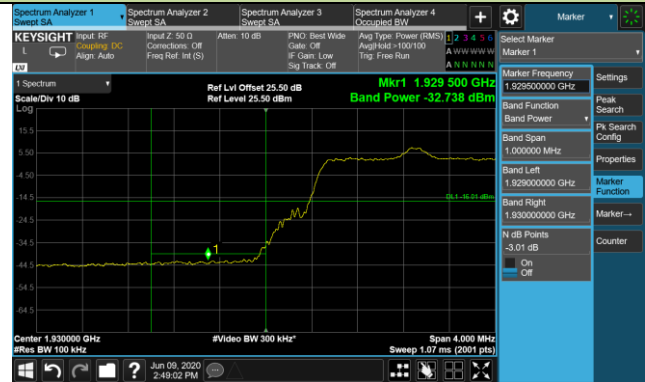




Band 2 In band

10MHz Channel Bandwidth - Ant 0

Bottom Channel



Top Channel



10MHz Channel Bandwidth - Ant 1

Bottom Channel

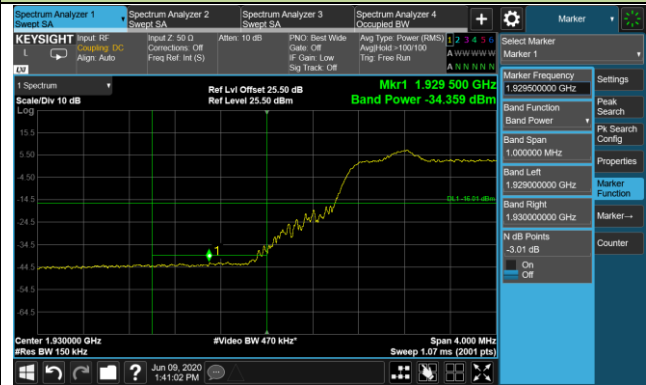


Top Channel



### 15MHz Channel Bandwidth - Ant 0

#### Bottom Channel



#### Top Channel



### 15MHz Channel Bandwidth - Ant 1

#### Bottom Channel

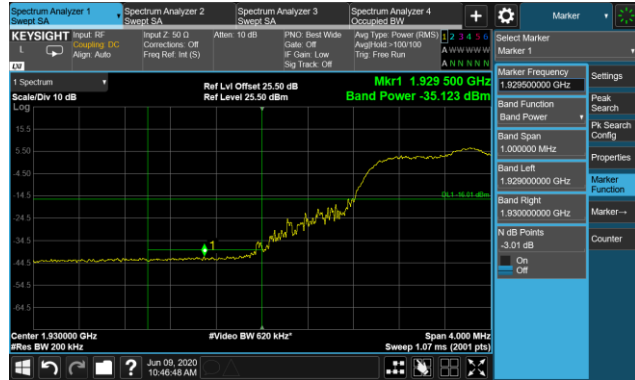


#### Top Channel

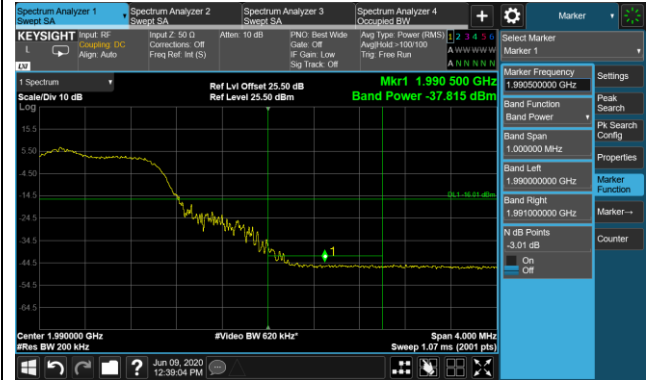


### 20MHz Channel Bandwidth - Ant 0

#### Bottom Channel

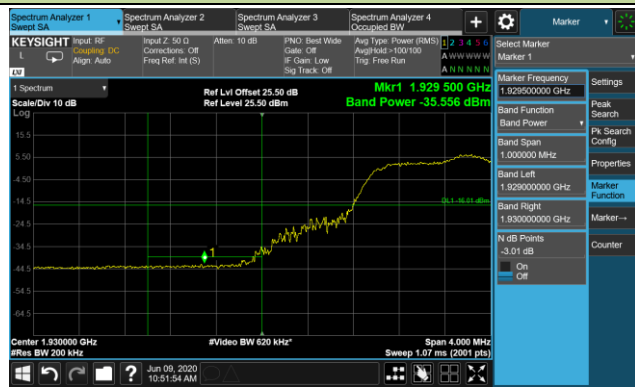


#### Top Channel



### 20MHz Channel Bandwidth - Ant 1

#### Bottom Channel



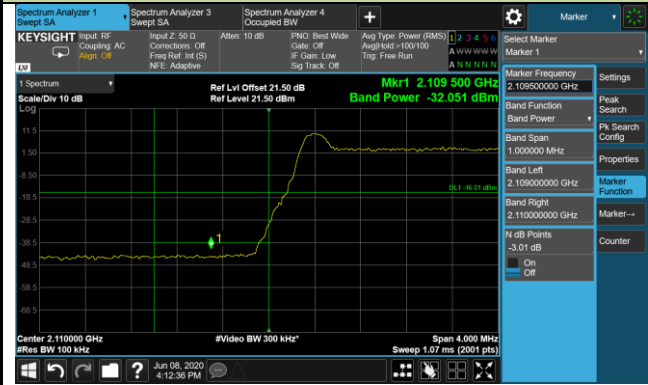
#### Top Channel



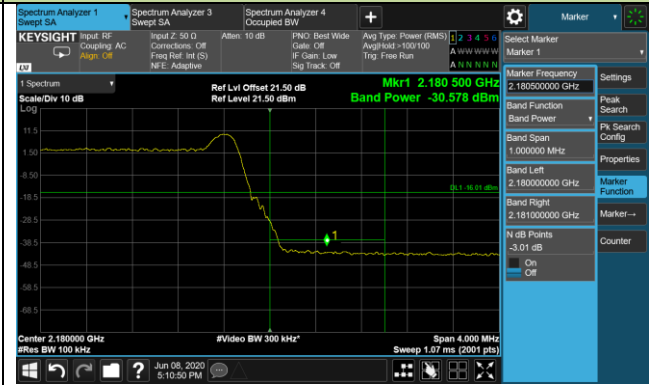
Band 66 Guard band

10MHz Channel Bandwidth - Ant 0

Bottom Channel

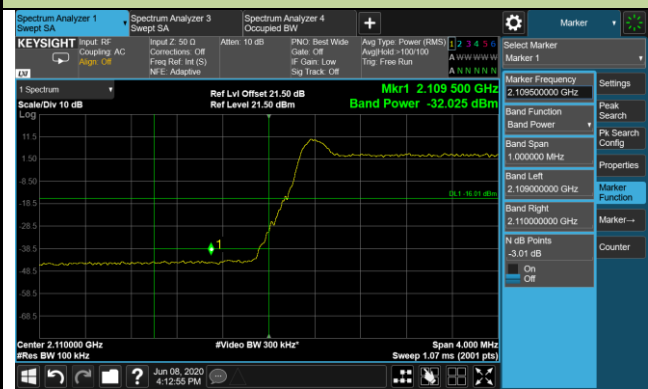


Top Channel

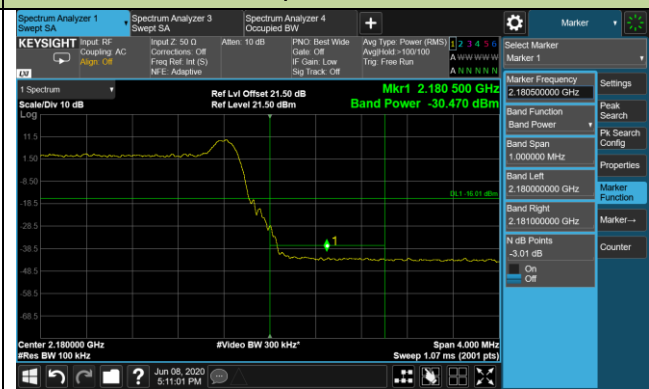


10MHz Channel Bandwidth - Ant 1

Bottom Channel

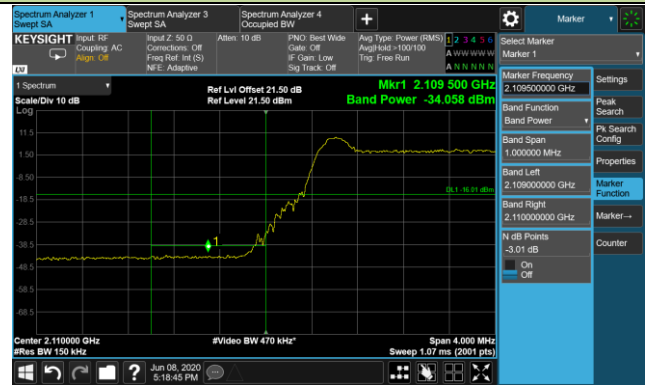


Top Channel

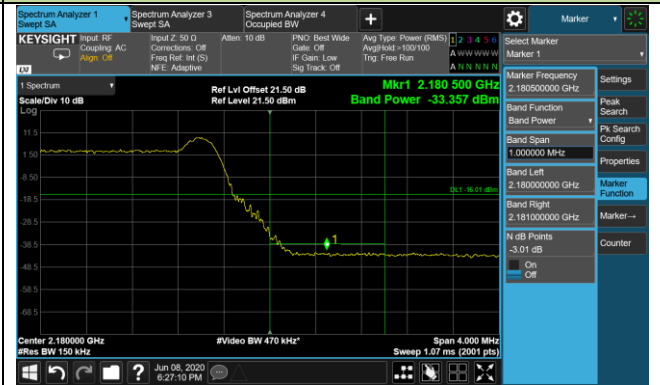


### 15MHz Channel Bandwidth - Ant 0

#### Bottom Channel

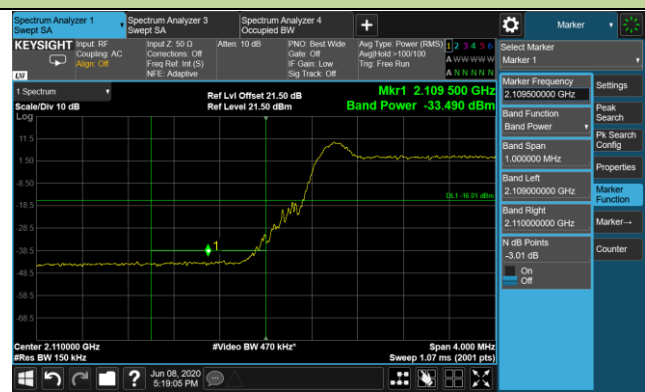


#### Top Channel



### 15MHz Channel Bandwidth - Ant 1

#### Bottom Channel

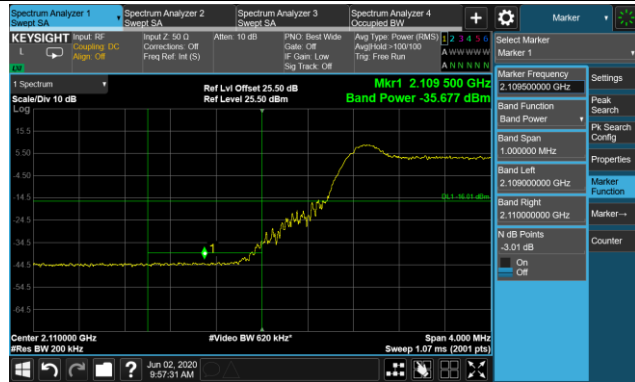


#### Top Channel

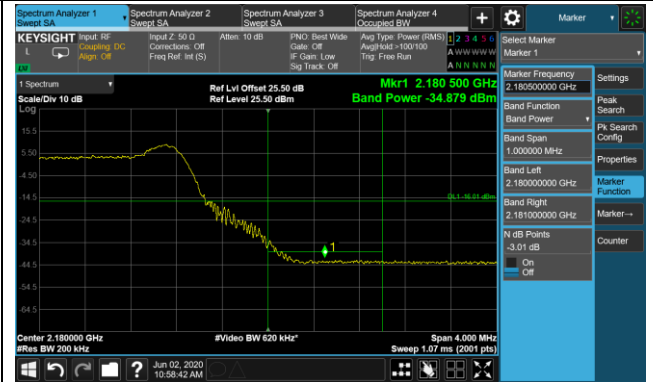


### 20MHz Channel Bandwidth - Ant 0

#### Bottom Channel



#### Top Channel

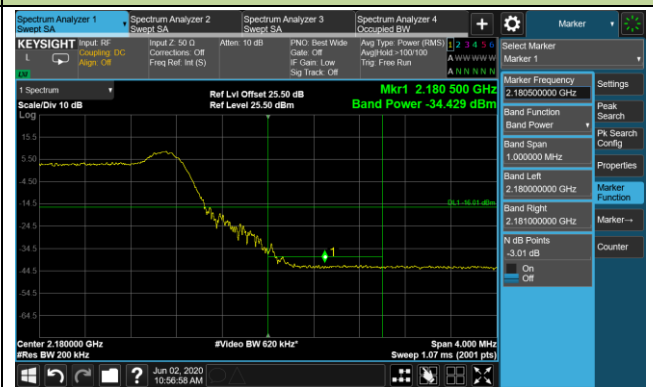


### 20MHz Channel Bandwidth - Ant 1

#### Bottom Channel



#### Top Channel

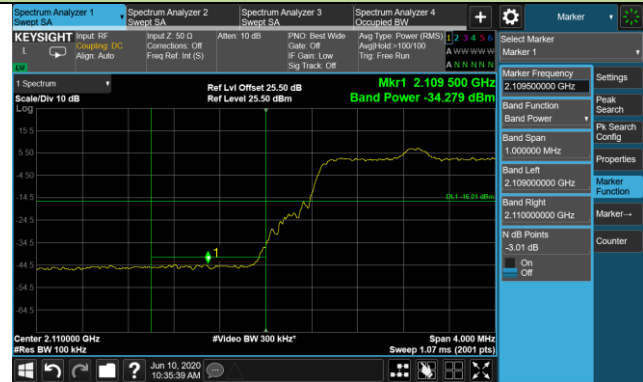


Band 66 In band

10MHz Channel Bandwidth - Ant 0

Bottom Channel

Top Channel



10MHz Channel Bandwidth - Ant 1

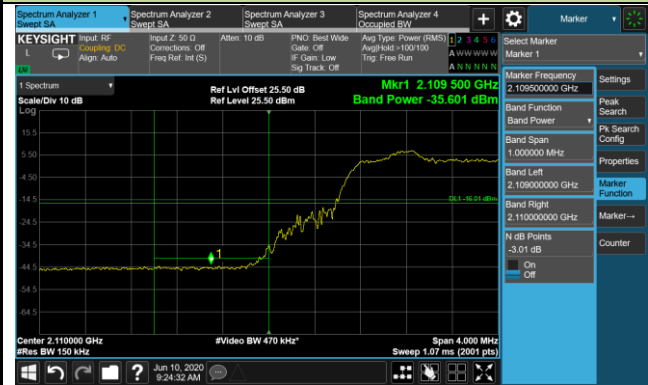
Bottom Channel

Top Channel

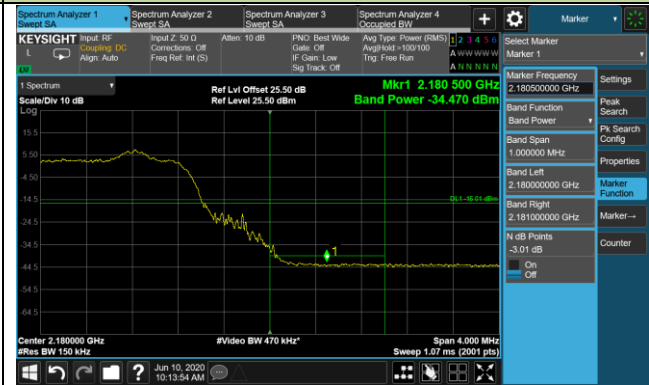


### 15MHz Channel Bandwidth - Ant 0

#### Bottom Channel



#### Top Channel



### 15MHz Channel Bandwidth - Ant 1

#### Bottom Channel



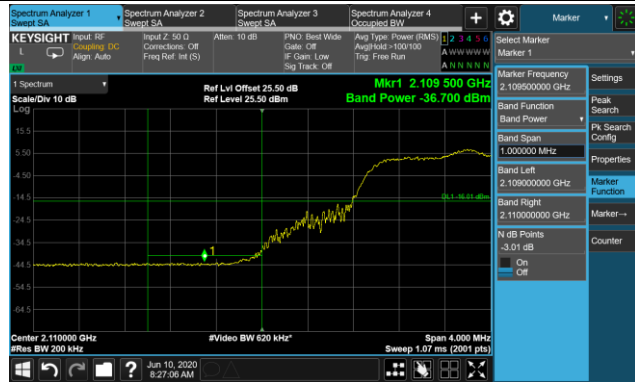
#### Top Channel





### 20MHz Channel Bandwidth - Ant 0

#### Bottom Channel

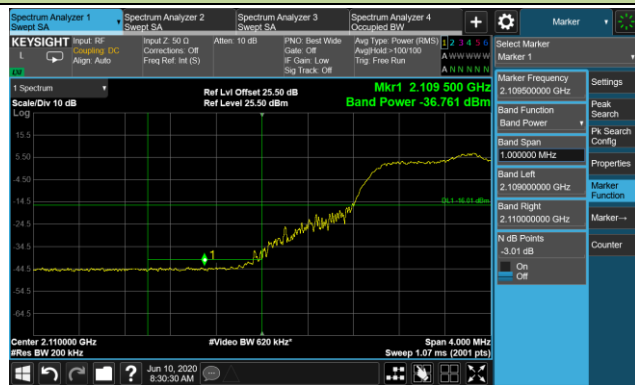


#### Top Channel

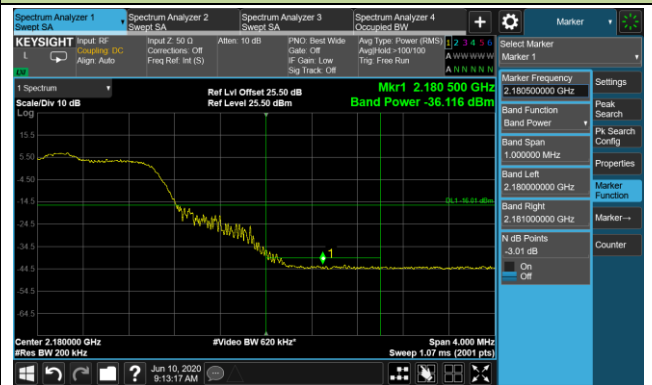


### 20MHz Channel Bandwidth - Ant 1

#### Bottom Channel



#### Top Channel



## 7. CONCLUSION

The data collected relate only the item(s) tested and show that the **AirScale Indoor Radio ASiR-pRRH** is compliance with FCC Rules.

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The End