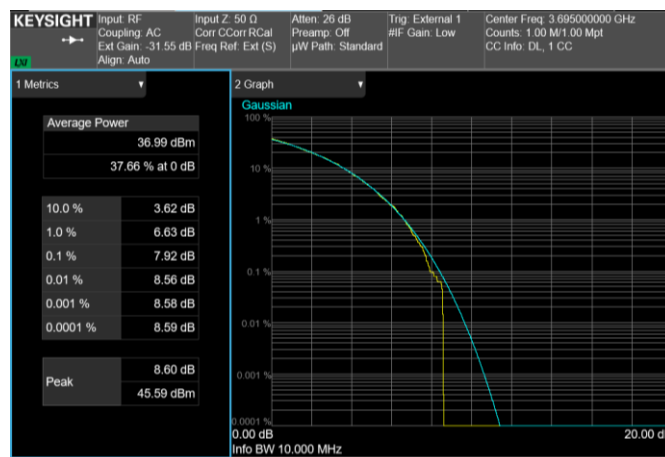
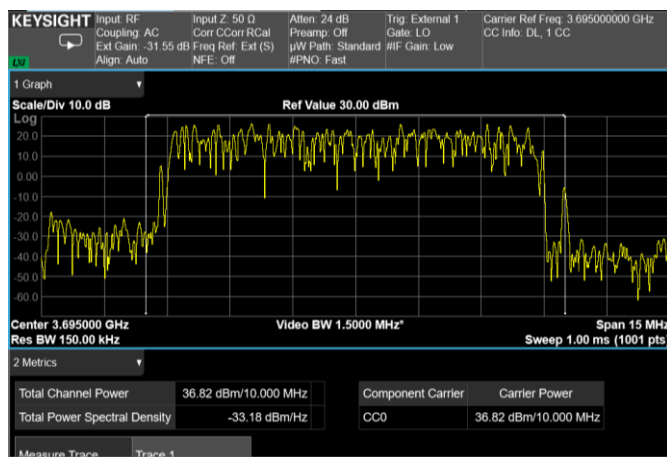
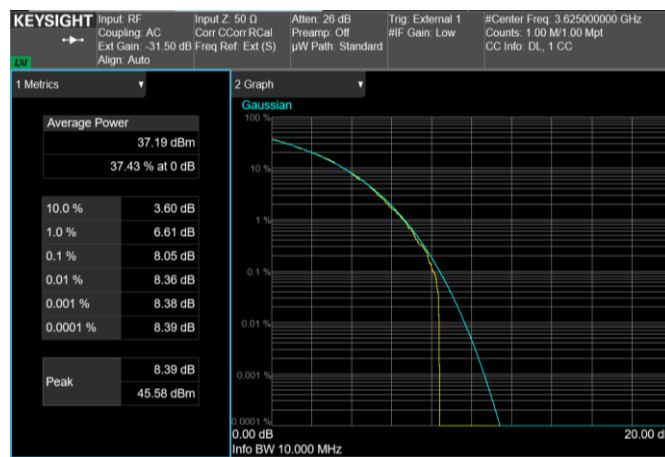
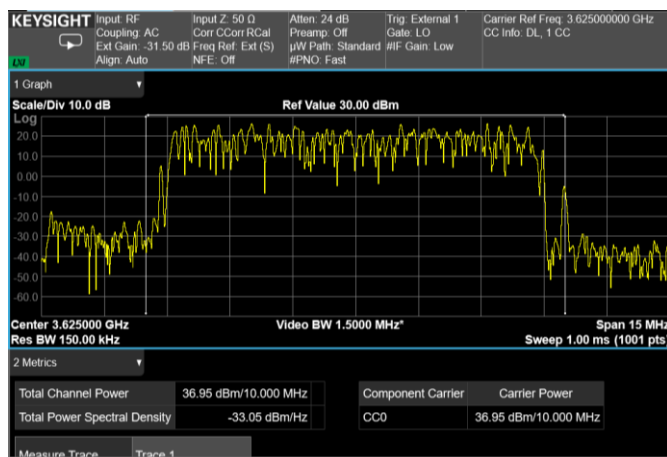
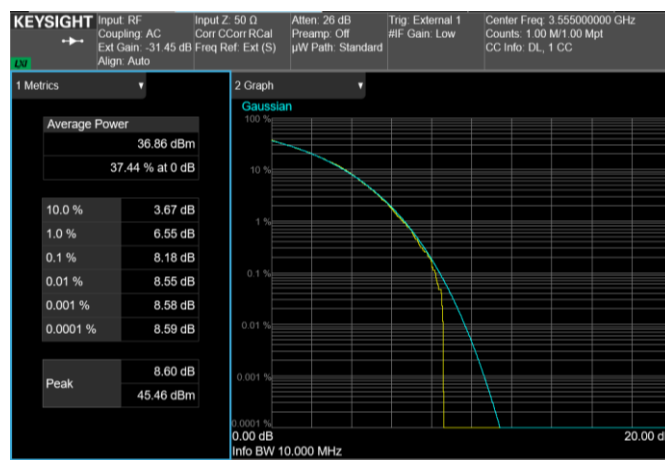
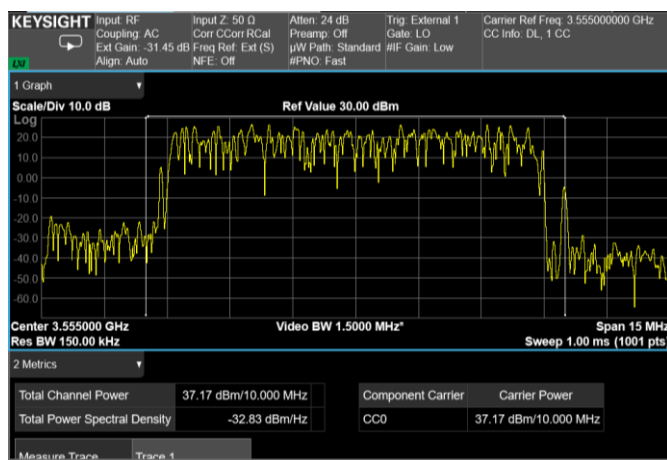
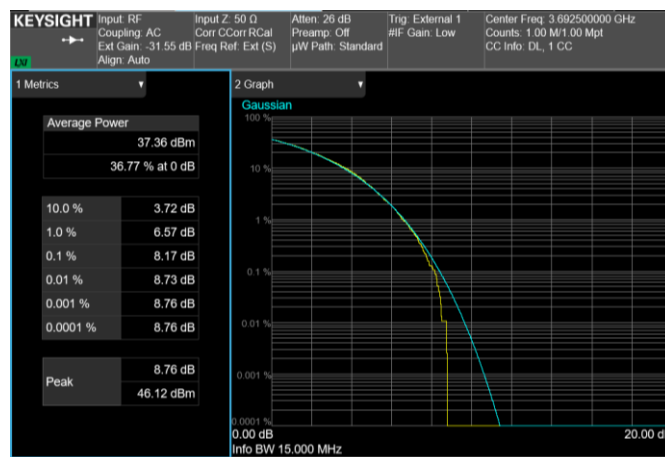
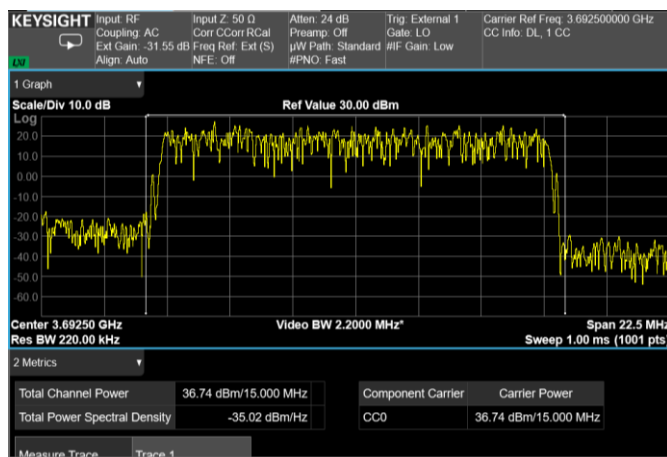
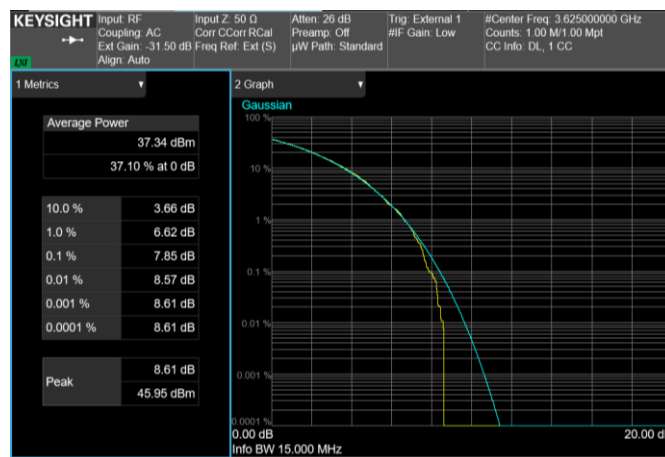
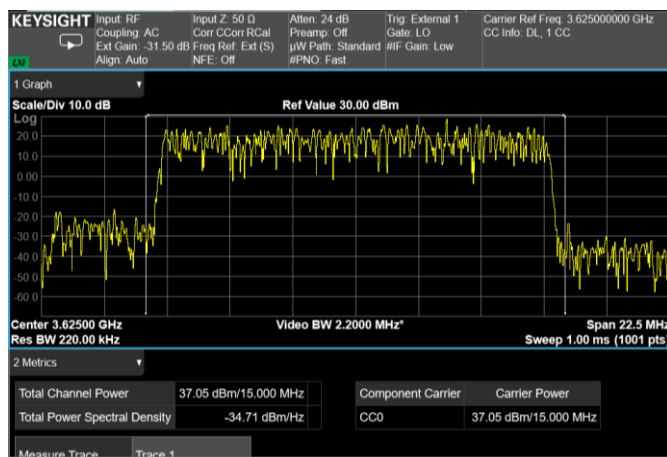
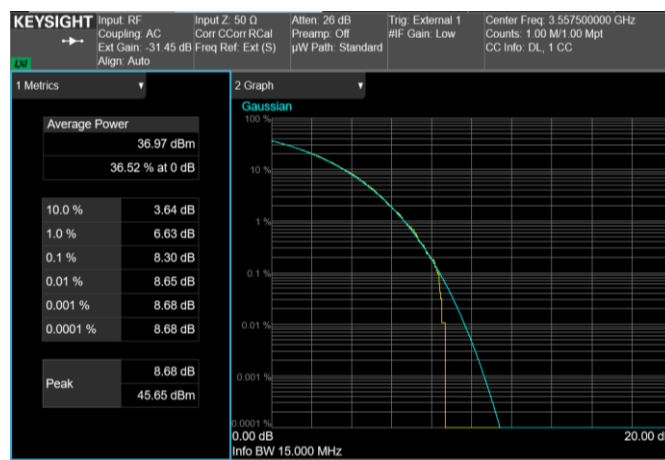
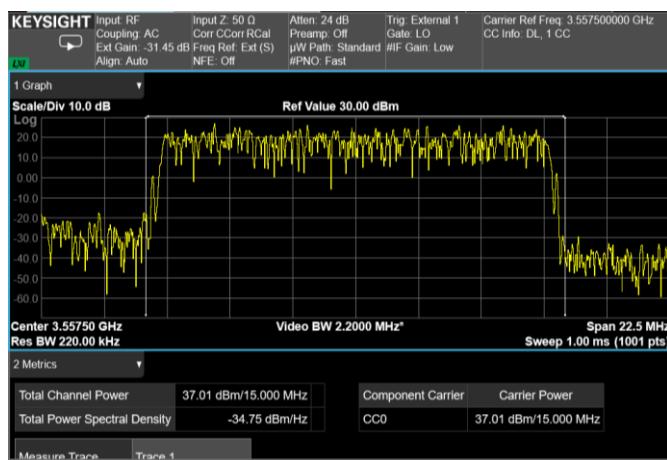
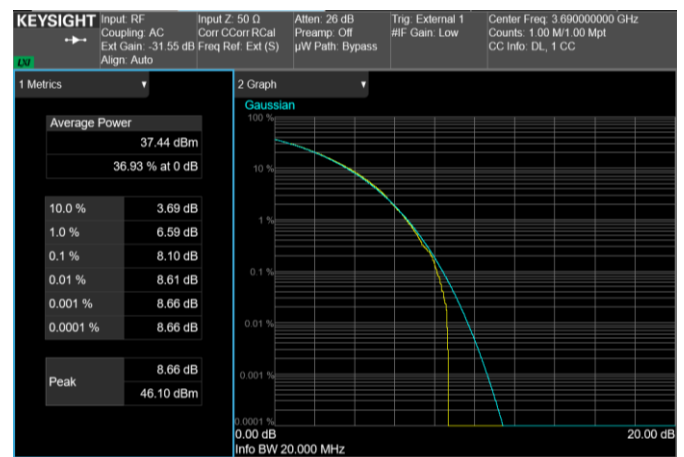
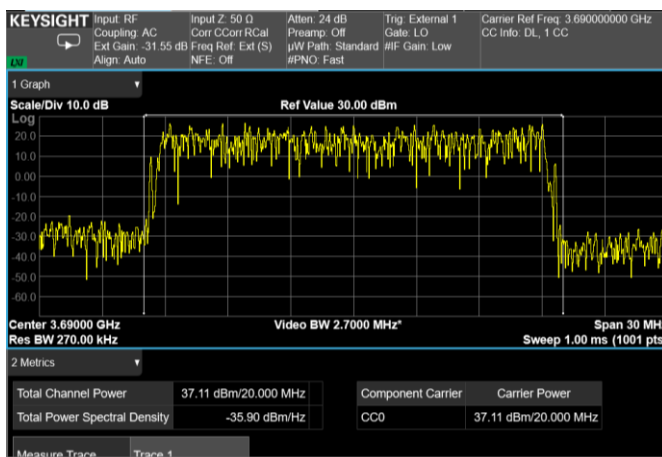
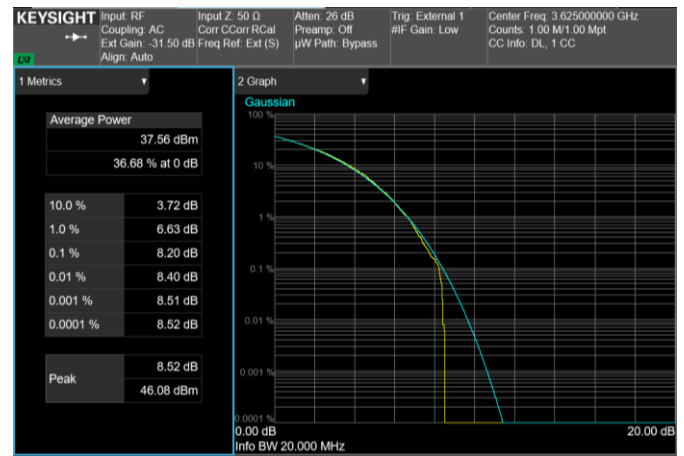
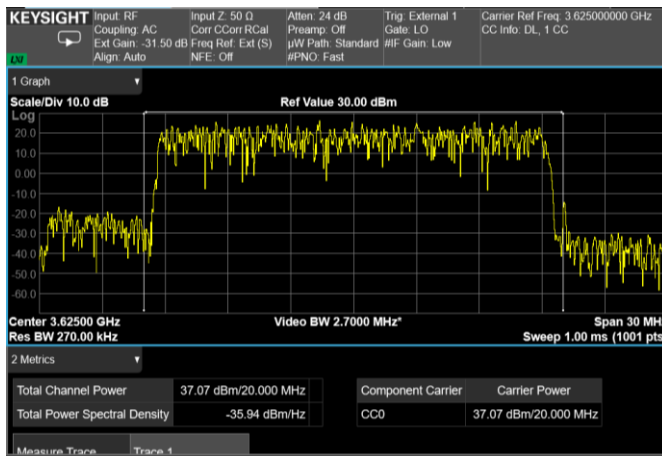
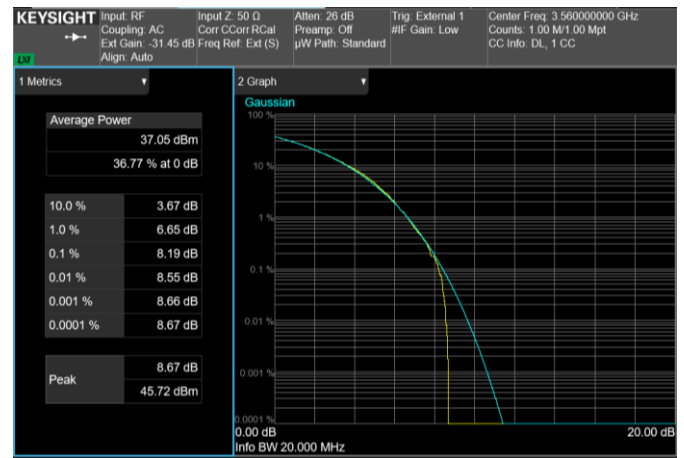
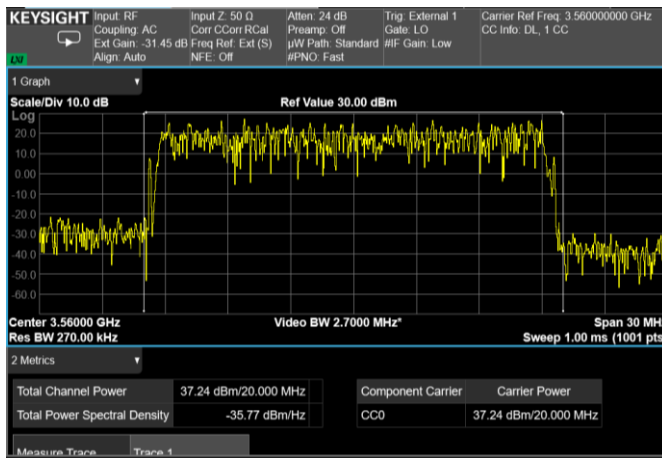
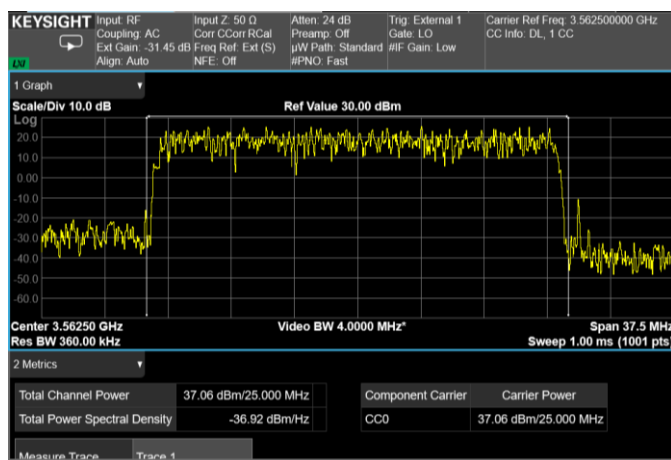


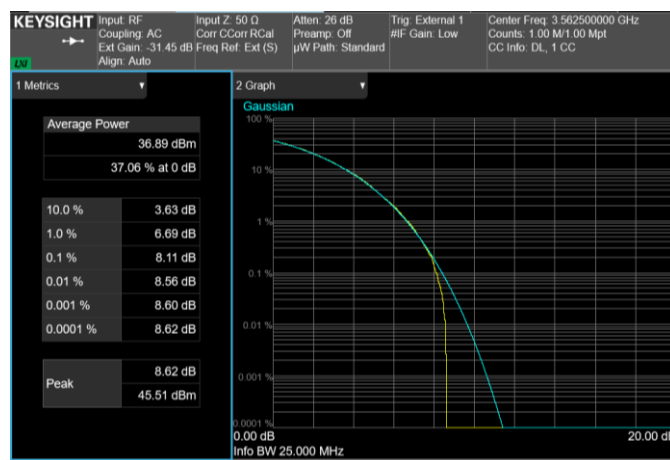




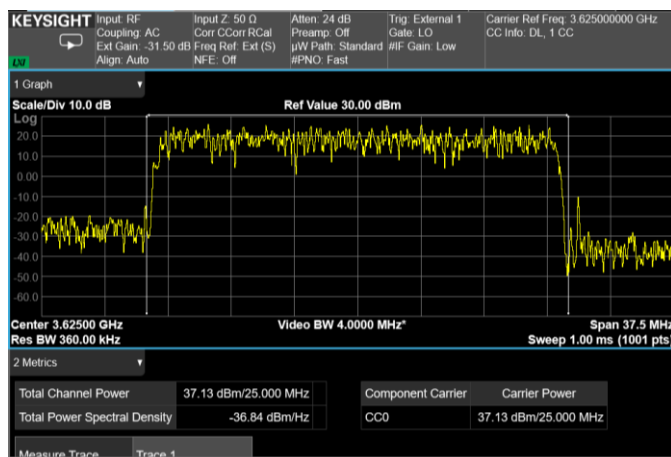




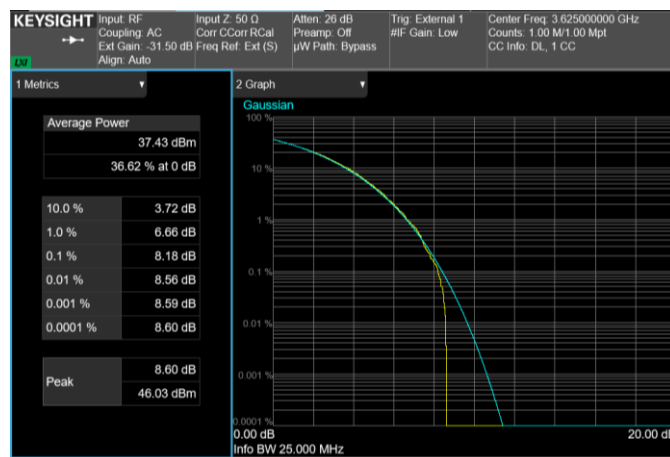
Channel: BOTTOM, Modulation: 64QAM,  
BW=25MHz, Channel Power



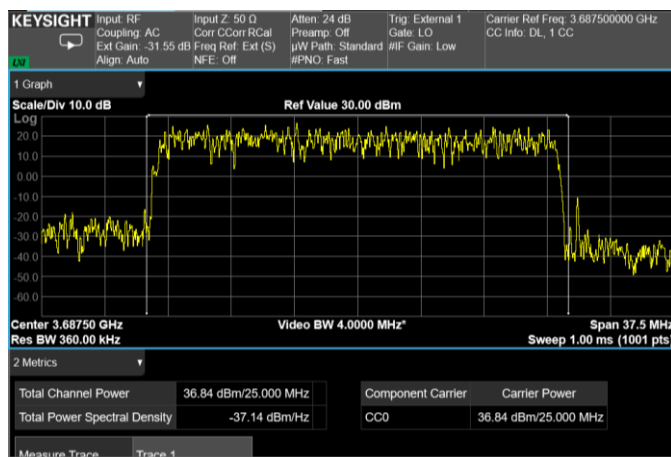
Channel: BOTTOM, Modulation: 64QAM,  
BW=25MHz, CCDF



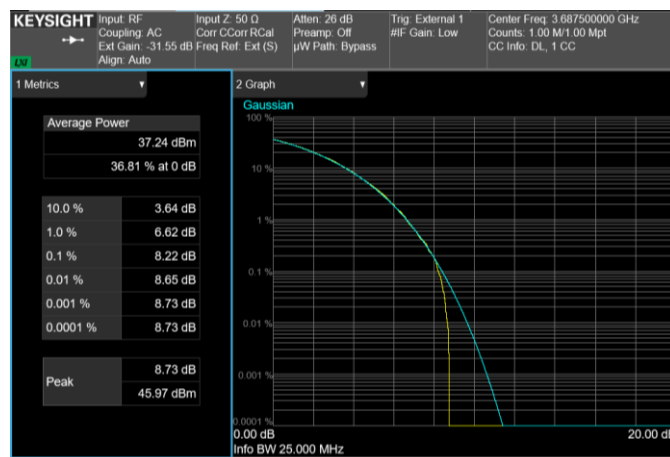
Channel: MIDDLE, Modulation: 64QAM,  
BW=25MHz, Channel Power



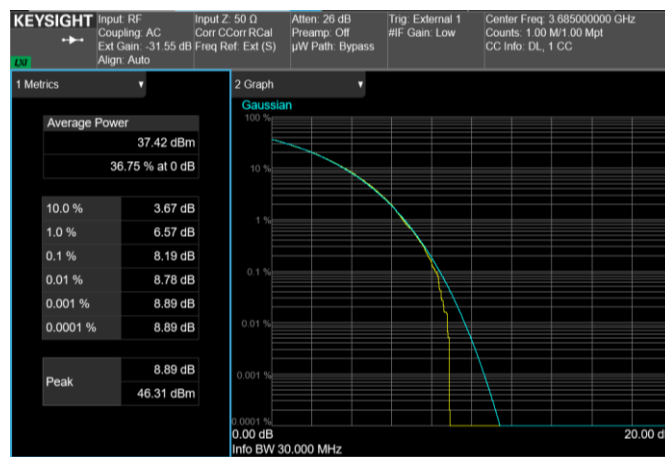
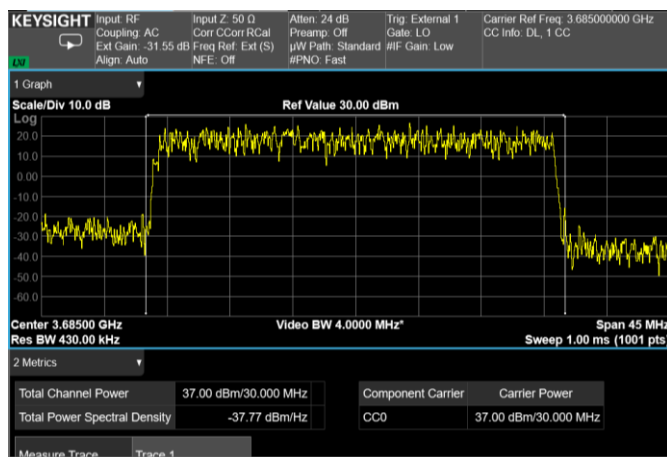
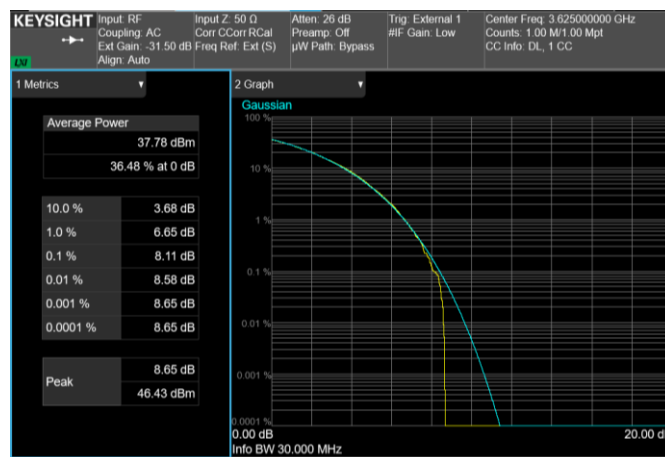
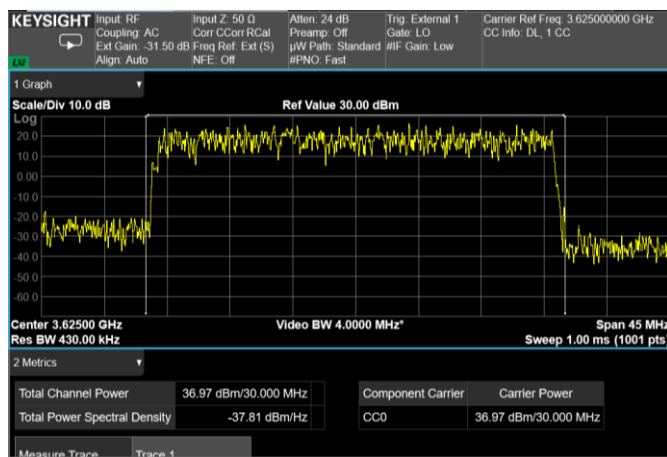
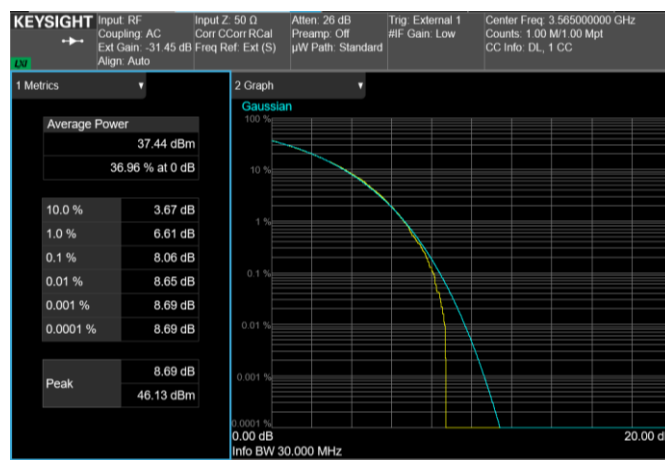
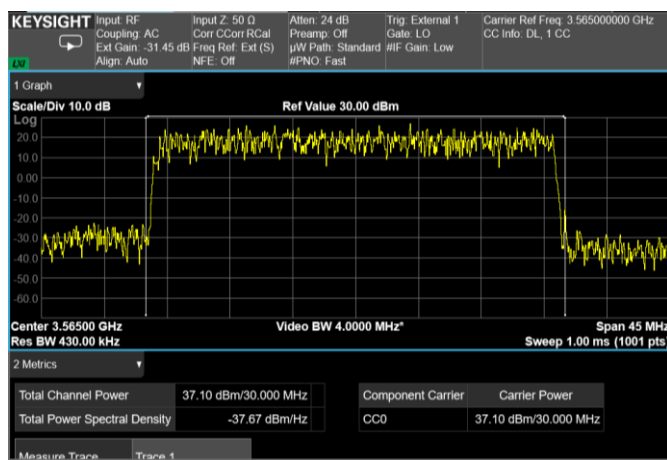
Channel: MIDDLE, Modulation: 64QAM,  
BW=25MHz, CCDF

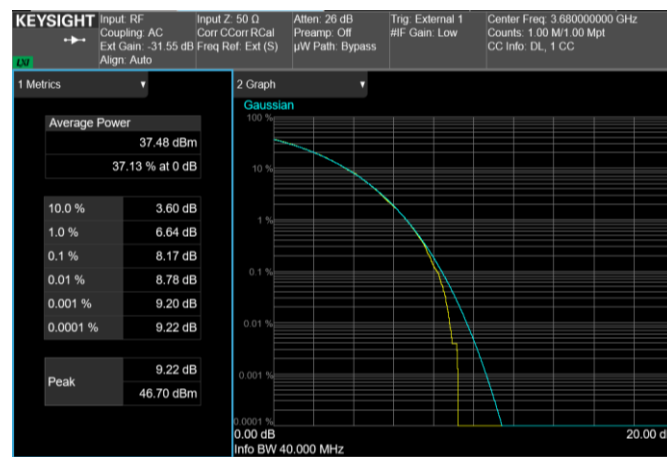
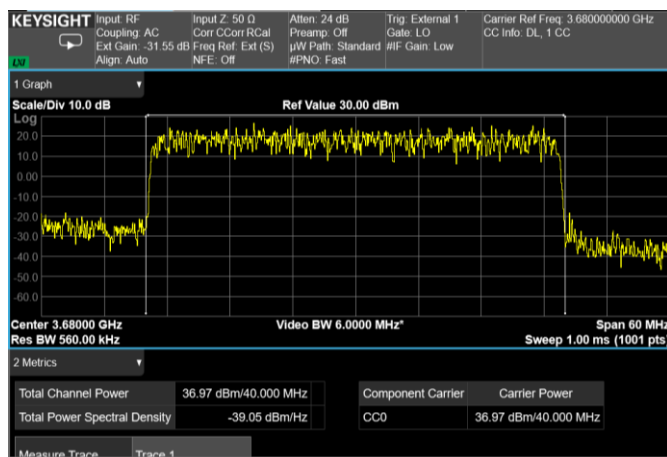
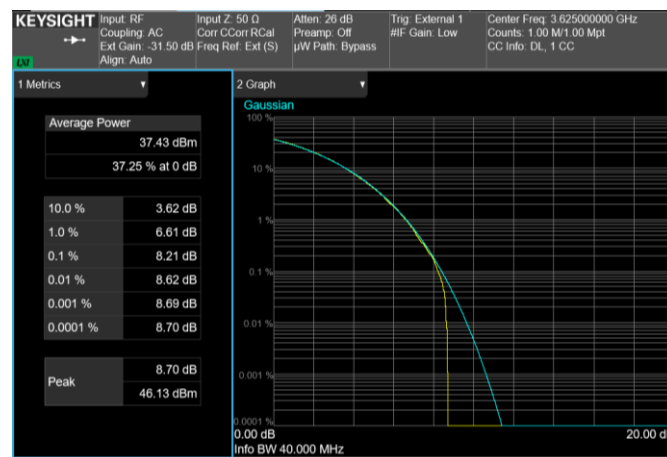
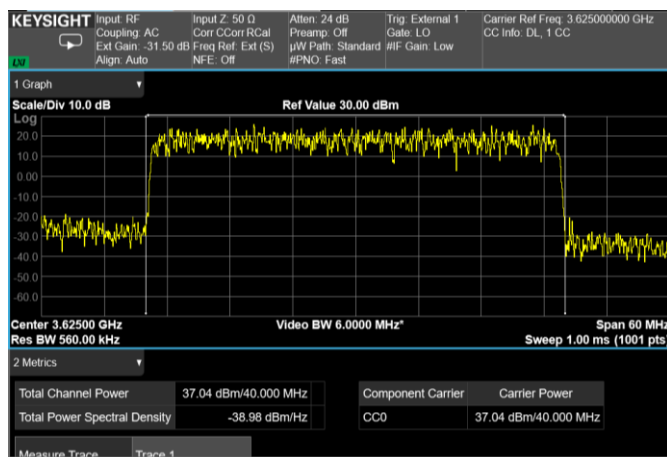
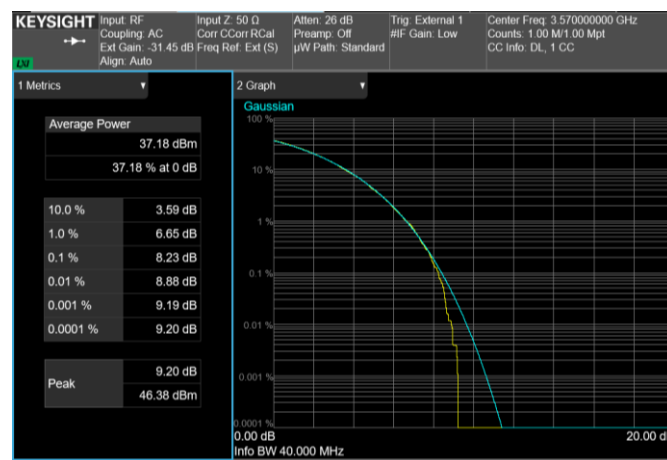
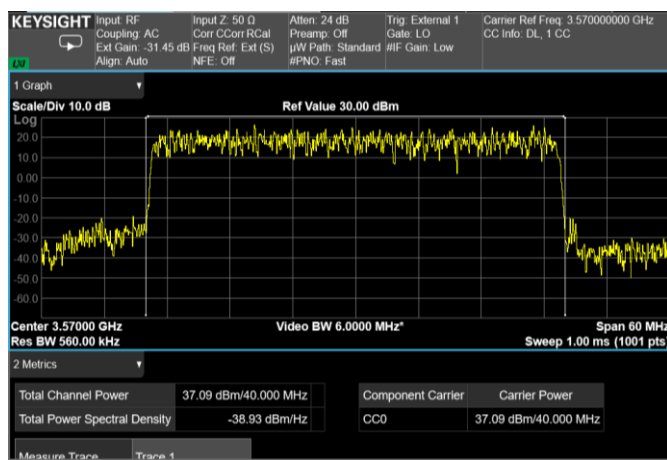


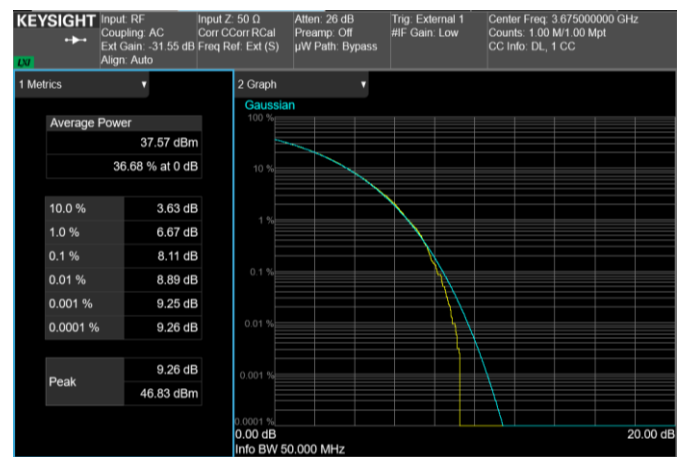
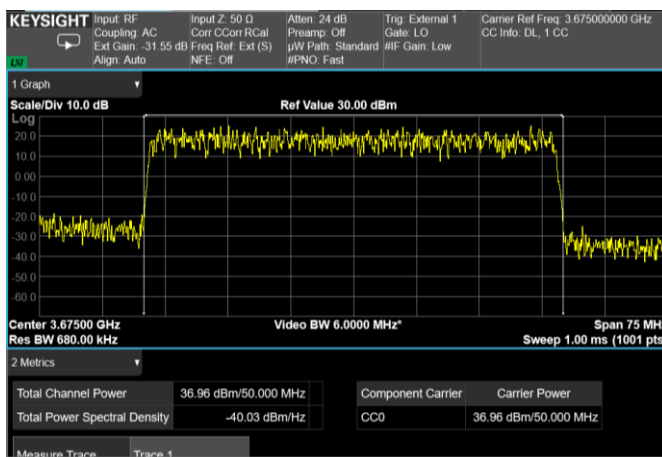
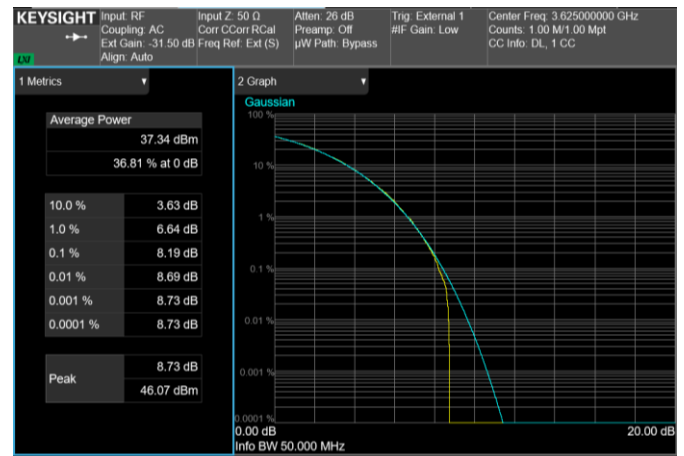
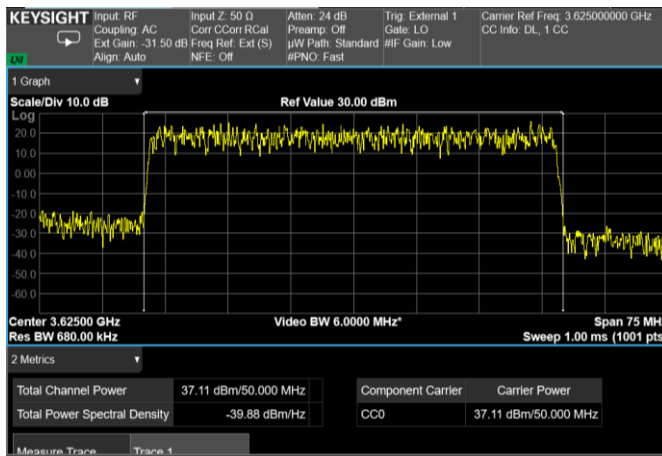
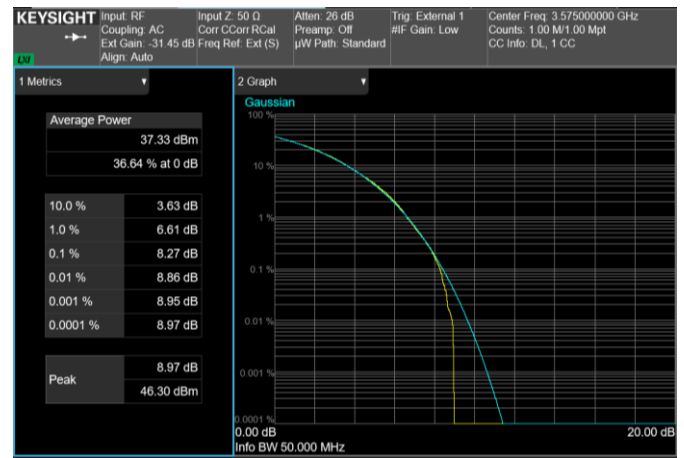
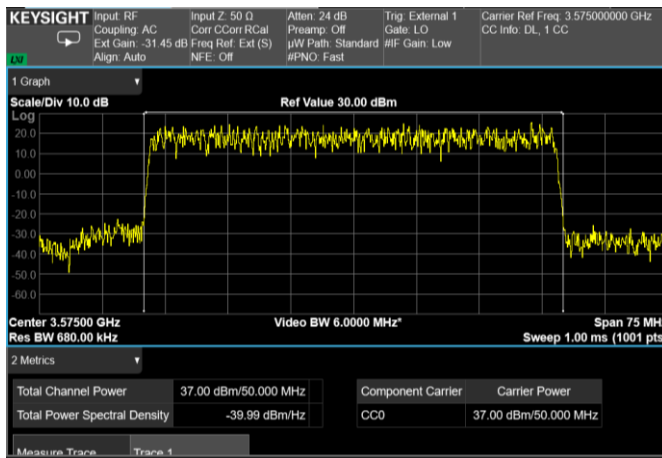
Channel: TOP, Modulation: 64QAM,  
BW=25MHz, Channel Power

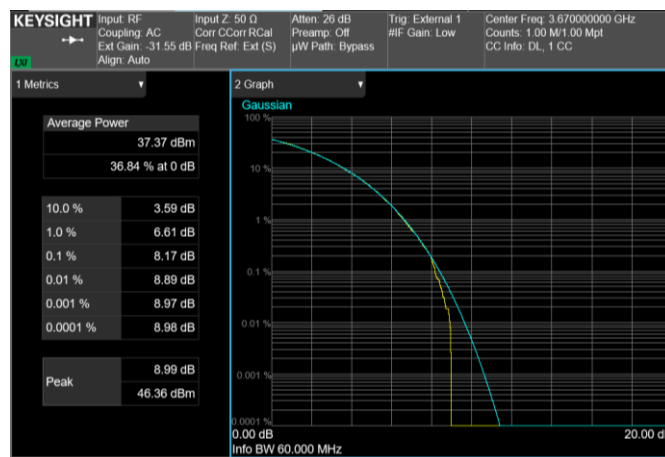
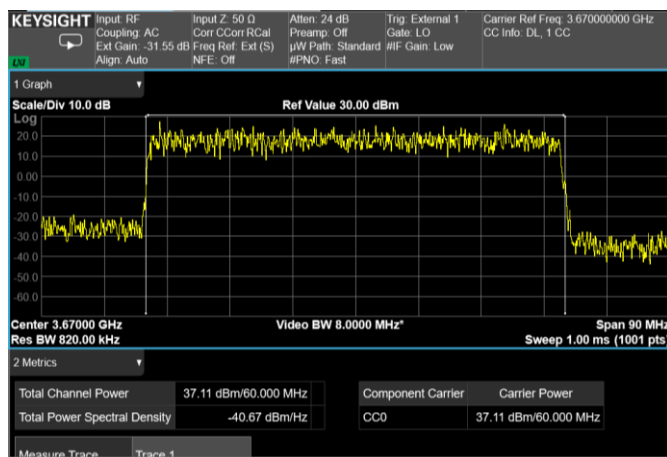
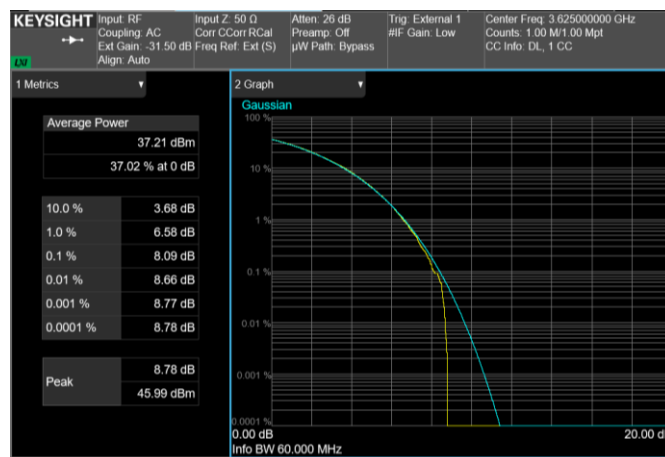
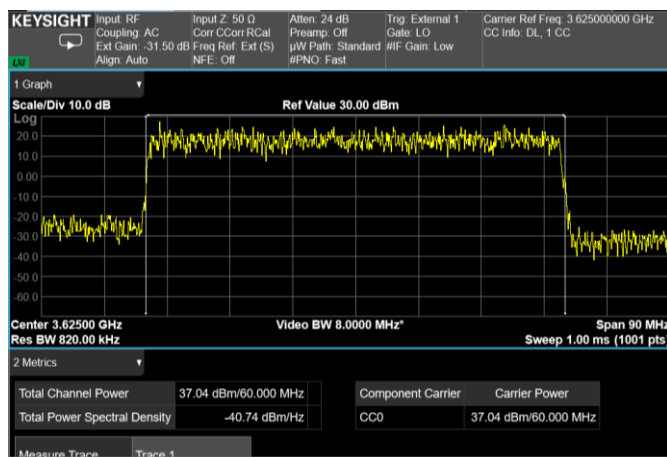
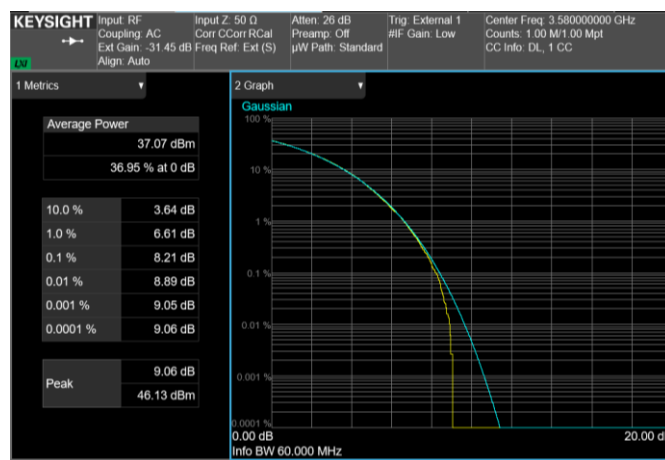
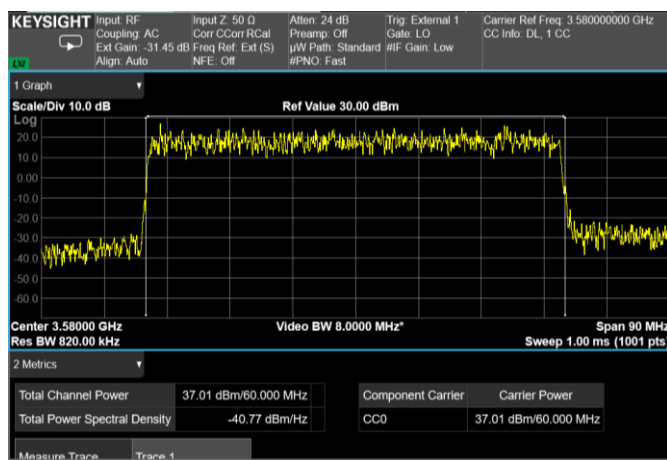


Channel: TOP, Modulation: 64QAM,  
BW=25MHz, CCDF









## Clause 96.41(e)(1)(2)(3) Spurious emissions at RF antenna connector

### (e) 3.5 GHz Emissions and Interference Limits—

- (1) *General protection levels.* Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed  $-13$  dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any emission shall not exceed  $-25$  dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.
- (2) *Additional protection levels.* Notwithstanding paragraph (d)(1) of this section, the conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed  $-40$  dBm/MHz.
- (3) *Measurement procedure.* (i) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's authorized frequency channel, a resolution bandwidth of no less than one percent of the fundamental emission bandwidth may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full reference bandwidth (*i.e.*, 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

Test date: 10/12/2022 to 11/04/2022

Test results: Pass

### Special notes

Limit of spurious emission at RF connector has been calculated following the indication in the "662911 D01 Multiple Transmitter Output v02r01" Clause 3) a) iii) with  $N_{Ant} = 2$ .

$$10\text{Log}(N_{Ant}) = 10\text{Log}(2) = 3 \text{ dB}$$

$$\text{Limit} = -40\text{dBm} - 3\text{dBm} = -43\text{dBm}$$

Note: measurements were performed for all modulation types. As an example, only measurements for 64 QAM modulation type are reported

### Test equipment

| Equipment         | Manufacturer | Model No.  | Asset/Serial No. |
|-------------------|--------------|------------|------------------|
| Spectrum Analyzer | Keysight     | N9030B PXA | MY61330632       |
| Spectrum Analyzer | Keysight     | N9041B UXA | US57220208       |

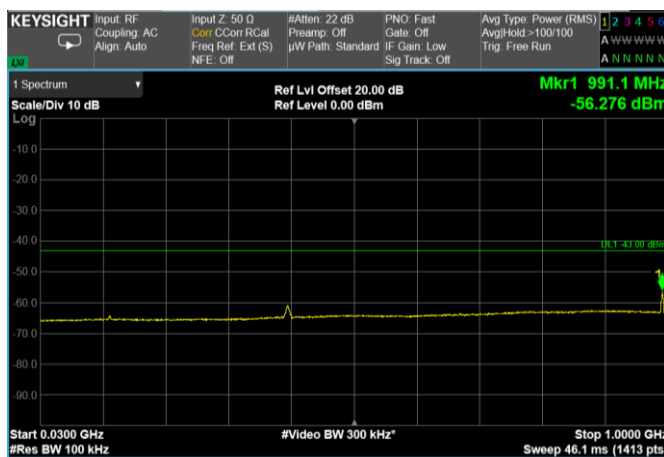
Clause 96.41(e)(1)(2)(3) Spurious emissions at RF antenna connector

Test data

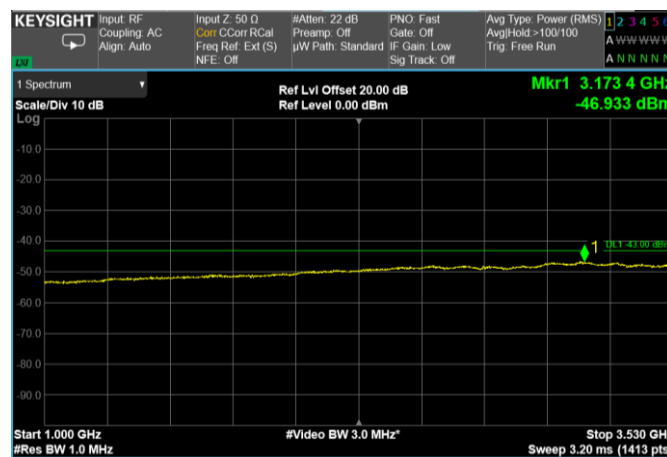
**See Plots below**

Test data: Spurious Emissions at antenna terminal

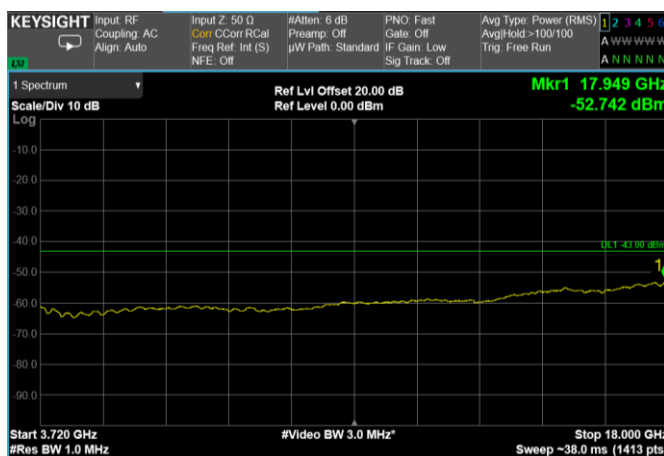
## RF PORT 1



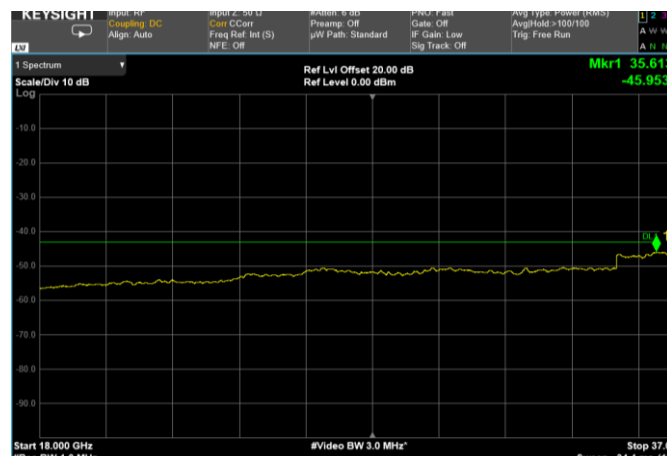
Channel: BOTTOM, Modulation: 64QAM,  
BW=5MHz, Range: 30 MHz - 1000 MHz



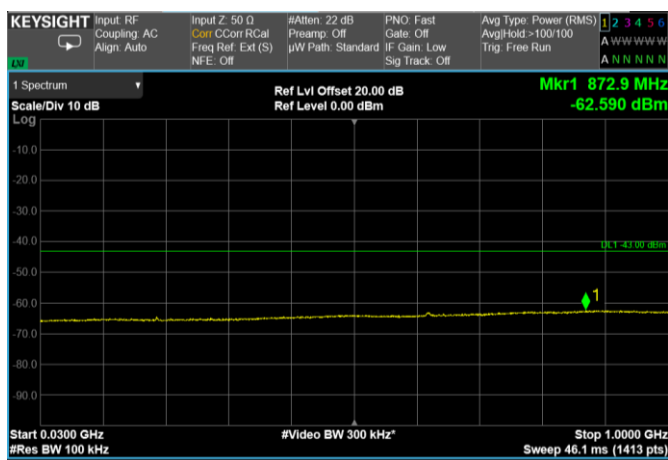
Channel: BOTTOM, Modulation: 64QAM,  
BW=5MHz, Range: 1000 MHz - 3530 MHz



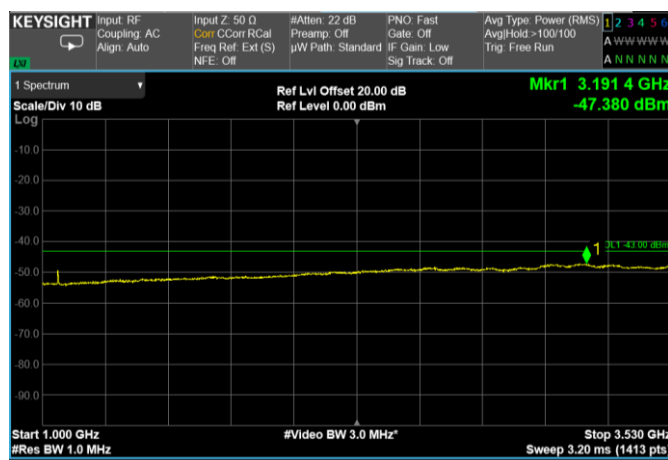
Channel: BOTTOM, Modulation: 64QAM,  
BW=5MHz, Range: 3720 MHz - 18 GHz



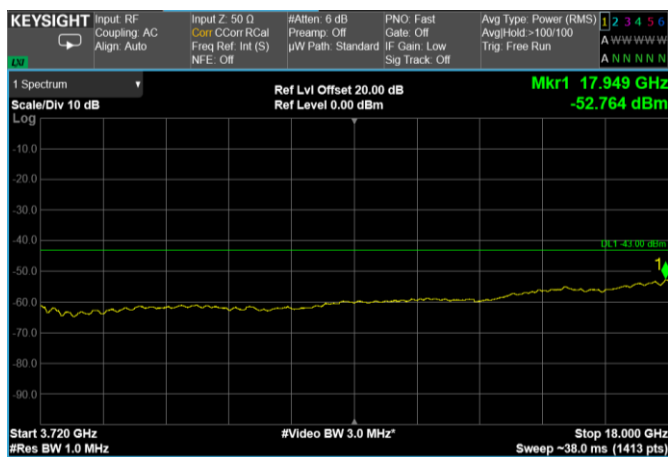
Channel: BOTTOM, Modulation: 64QAM,  
BW=5MHz, Range: 18 GHz - 37 GHz



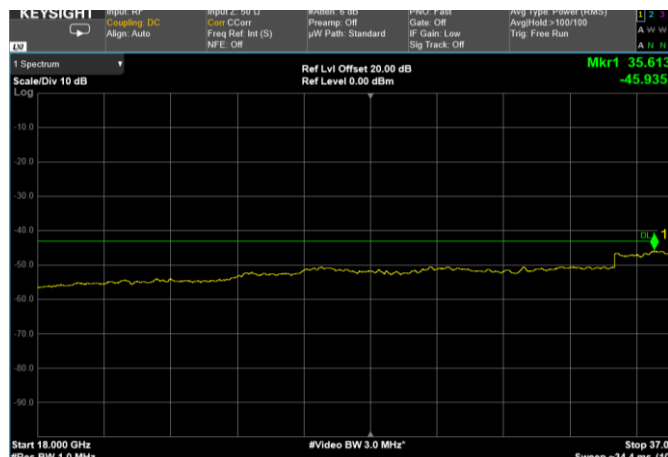
Channel: MIDDLE, Modulation: 64QAM,  
BW=5MHz, Range: 30 MHz - 1000 MHz



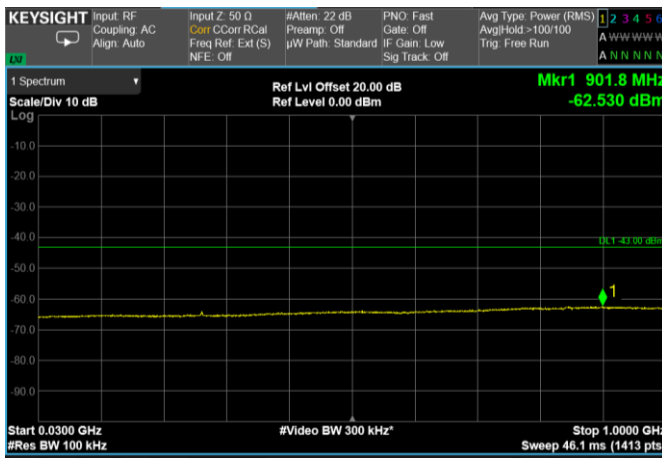
Channel: MIDDLE, Modulation: 64QAM,  
BW=5MHz, Range: 1000 MHz - 3530 MHz



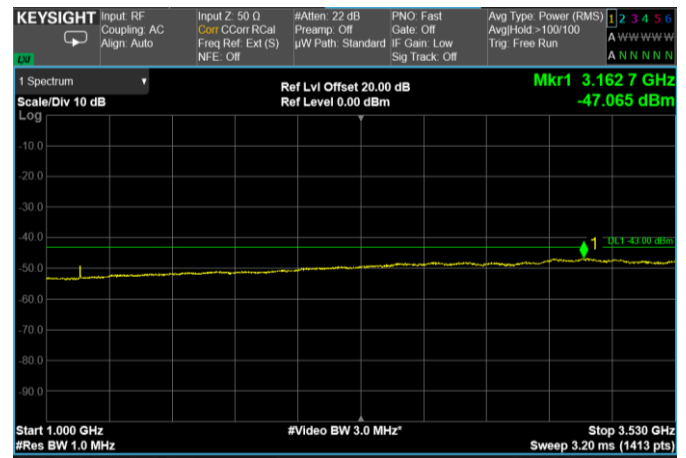
Channel: MIDDLE, Modulation: 64QAM,  
BW=5MHz, Range: 3720 MHz - 18 GHz



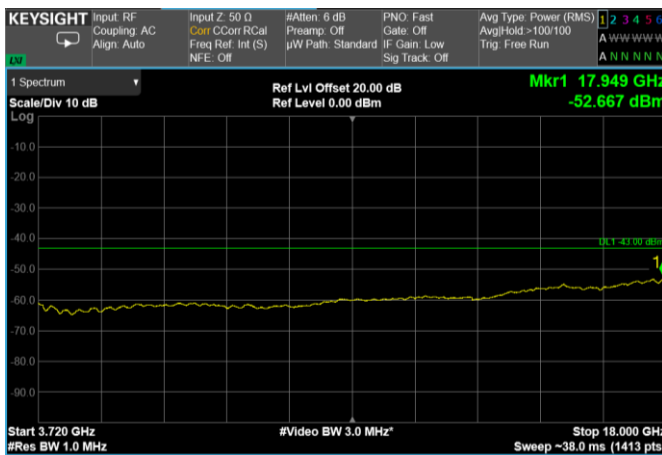
Channel: MIDDLE, Modulation: 64QAM,  
BW=5MHz, Range: 18 GHz - 37 GHz



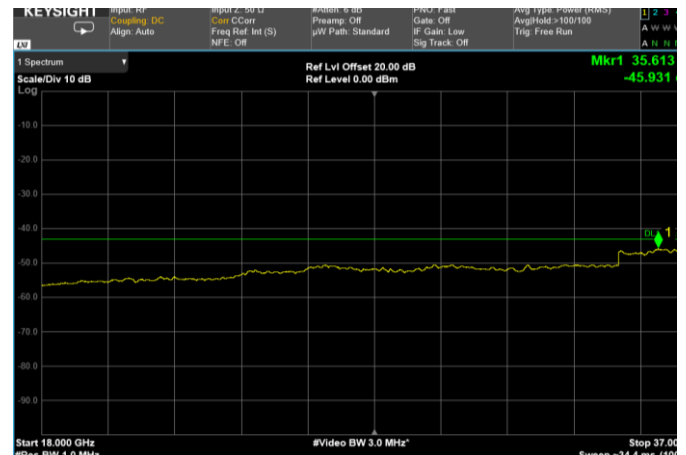
Channel: TOP, Modulation: 64QAM,  
BW=5MHz, Range: 30 MHz - 1000 MHz



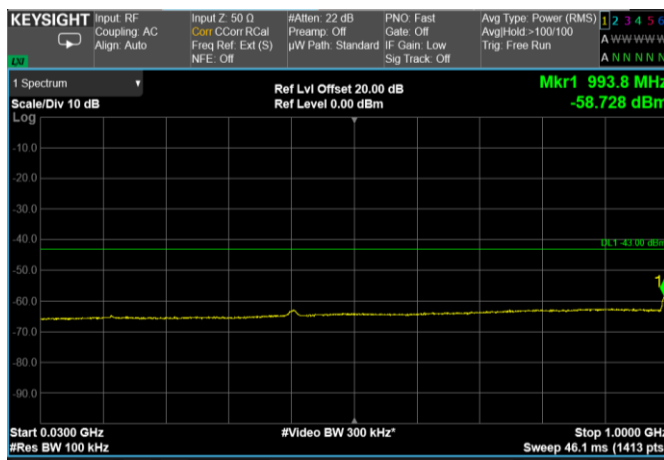
Channel: TOP, Modulation: 64QAM,  
BW=5MHz, Range: 1000 MHz - 3530 MHz



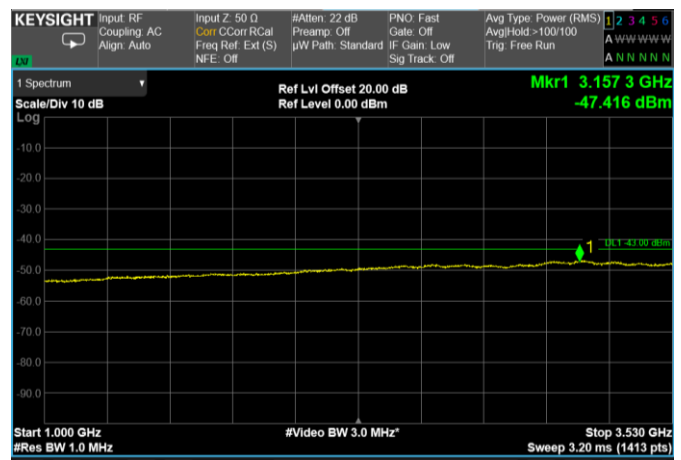
Channel: TOP, Modulation: 64QAM,  
BW=5MHz, Range: 3720 MHz - 18 GHz



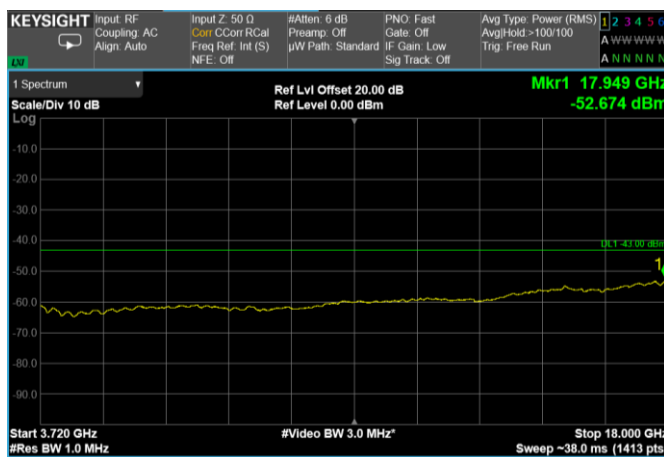
Channel: TOP, Modulation: 64QAM,  
BW=5MHz, Range: 18 GHz - 37 GHz



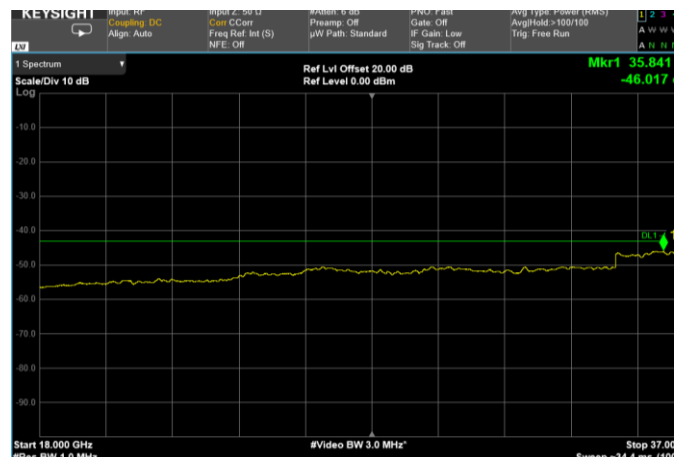
Channel: BOTTOM, Modulation: 64QAM,  
BW=10MHz, Range: 30 MHz - 1000 MHz



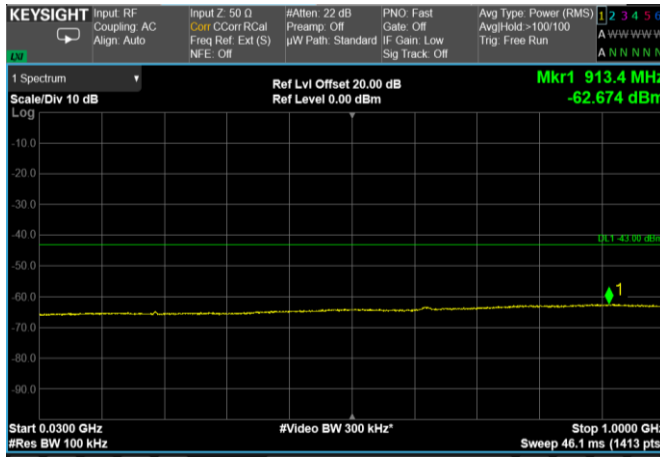
Channel: BOTTOM, Modulation: 64QAM,  
BW=10MHz, Range: 1000 MHz - 3530 MHz



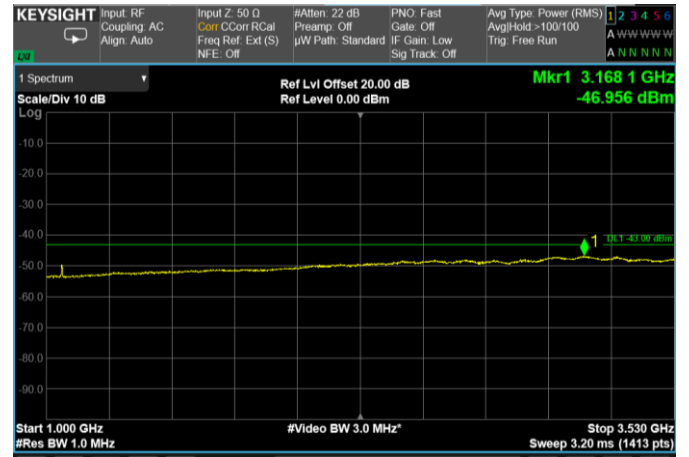
Channel: BOTTOM, Modulation: 64QAM,  
BW=10MHz, Range: 3720 MHz - 18 GHz



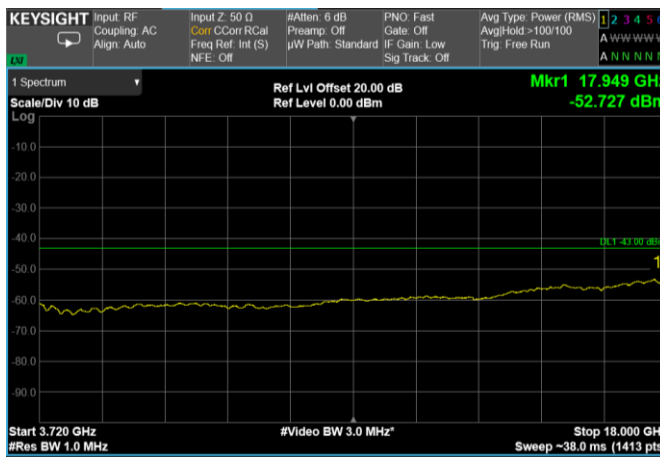
Channel: BOTTOM, Modulation: 64QAM,  
BW=10MHz, Range: 18 GHz - 37 GHz



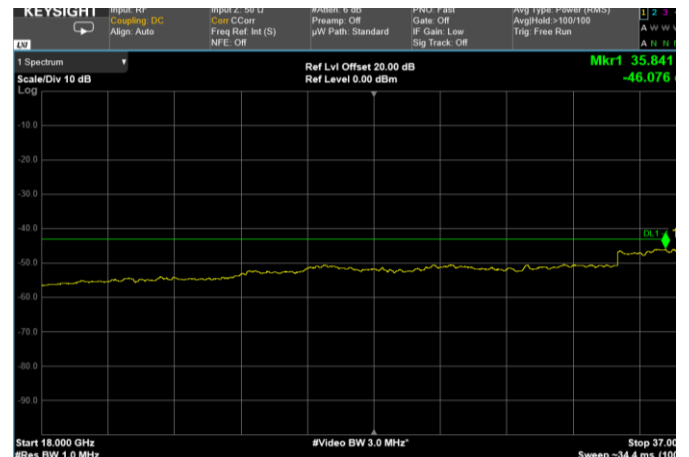
Channel: MIDDLE, Modulation: 64QAM,  
BW=10MHz, Range: 30 MHz - 1000 MHz



Channel: MIDDLE, Modulation: 64QAM,  
BW=10MHz, Range: 1000 MHz - 3530 MHz



Channel: MIDDLE, Modulation: 64QAM,  
BW=10MHz, Range: 3720 MHz - 18 GHz



Channel: MIDDLE, Modulation: 64QAM,  
BW=10MHz, Range: 18 GHz - 37 GHz