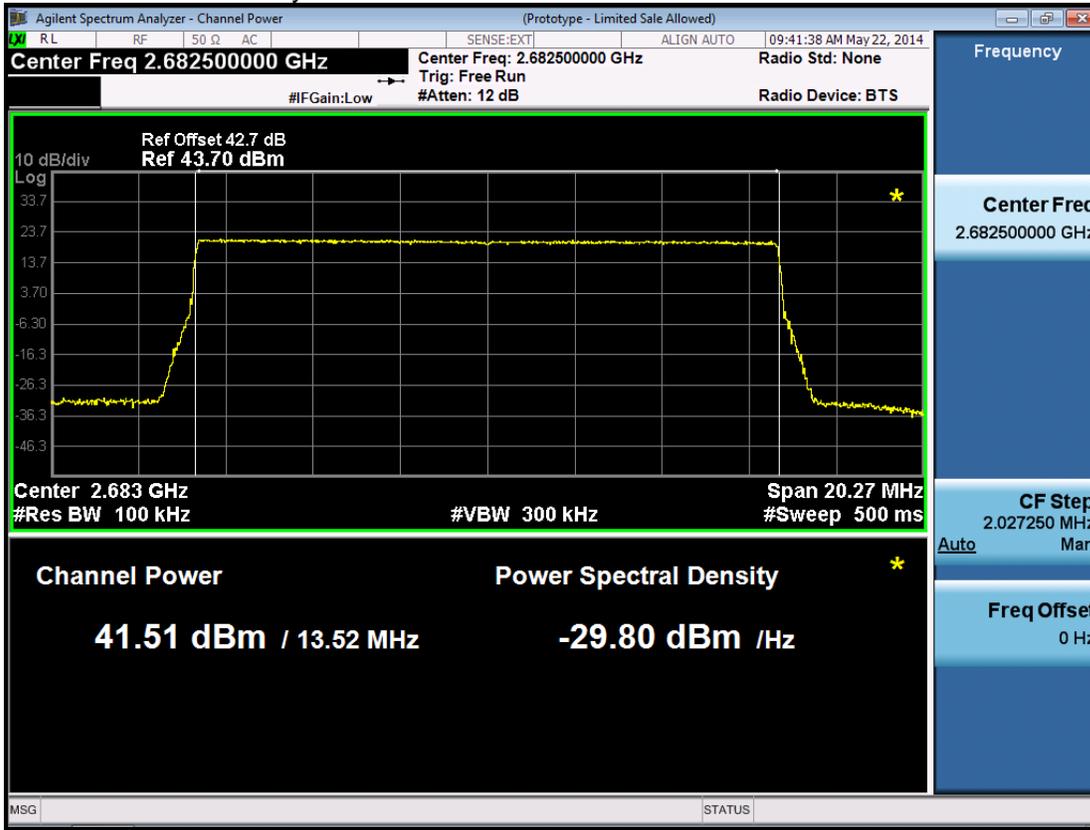


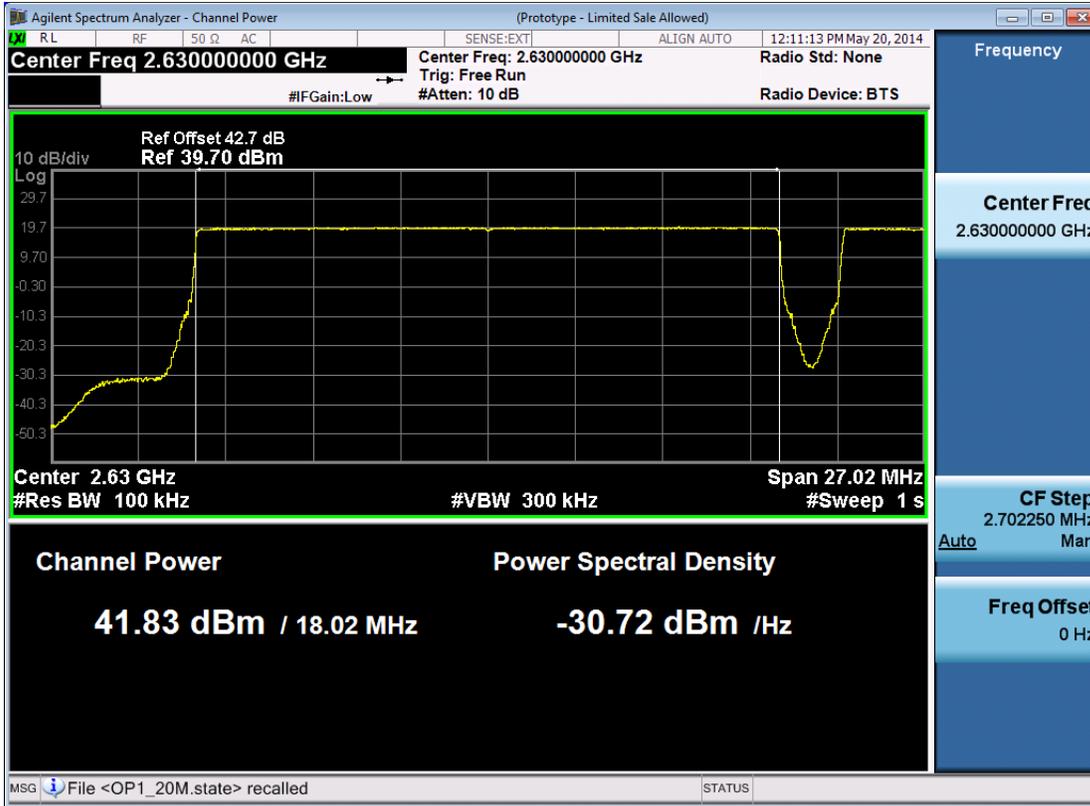
## 15M+15M -Port 2 –carry2-2682.5MHz



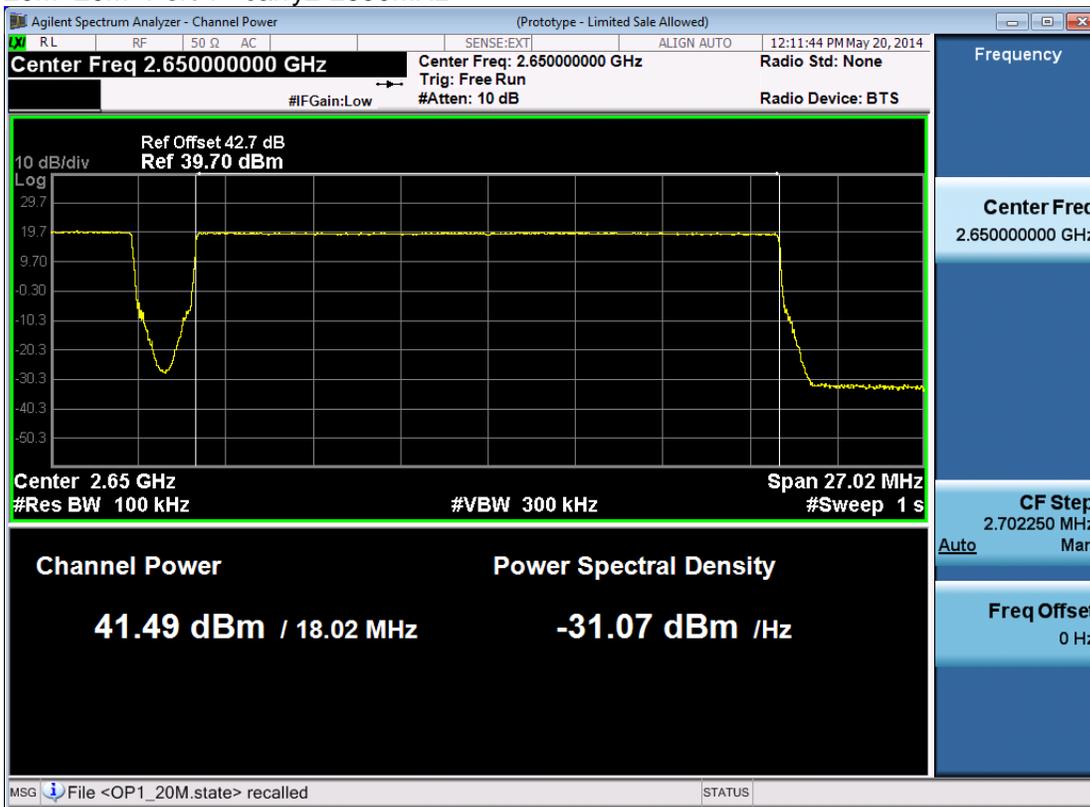
Channel Bandwidth :20M+20M

Port	Carry1 Center Freq. (MHz)	Carry1 Max output Power in dBm	Carry2 Center Freq. (MHz)	Carry2 Max output Power in dBm	Max output Power in dBm
1	2630	41.83	2650	41.49	44.71
	2645	41.77	2665	41.42	44.62
	2660	41.99	2680	41.41	44.73
2	2630	41.86	2650	41.51	44.70
	2645	41.76	2665	41.42	44.61
	2660	41.97	2680	41.40	44.71

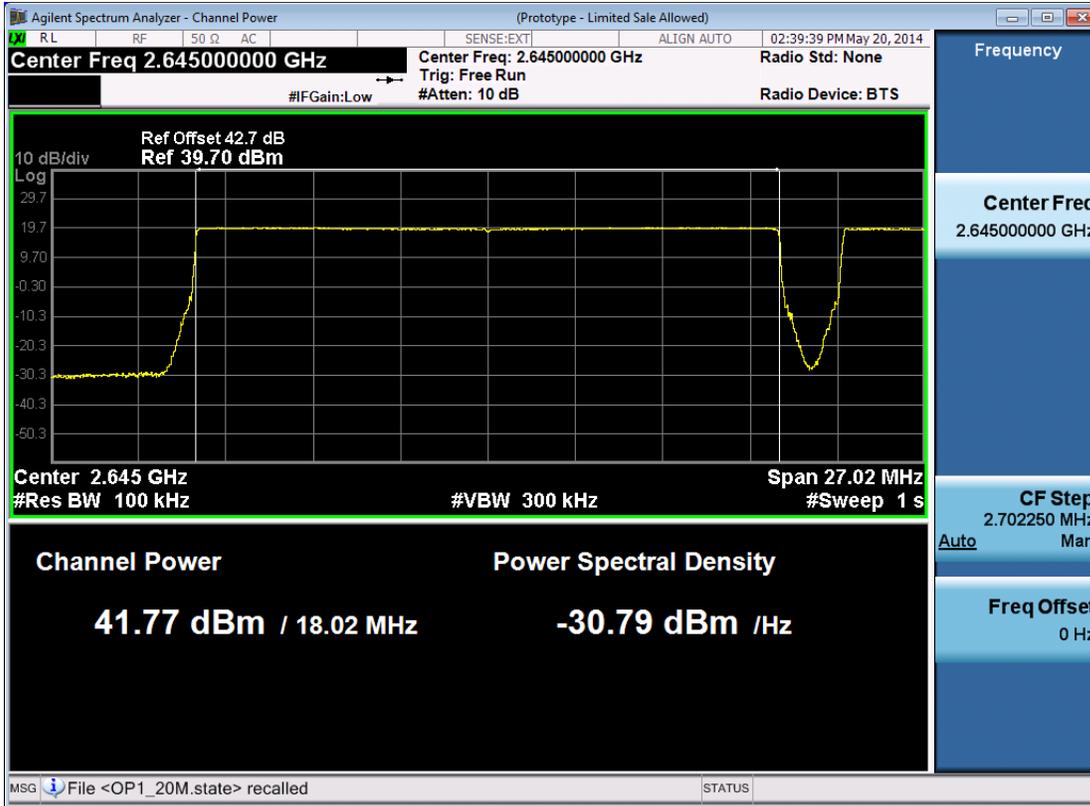
## 20M+20M -Port 1 –carry1-2630MHz



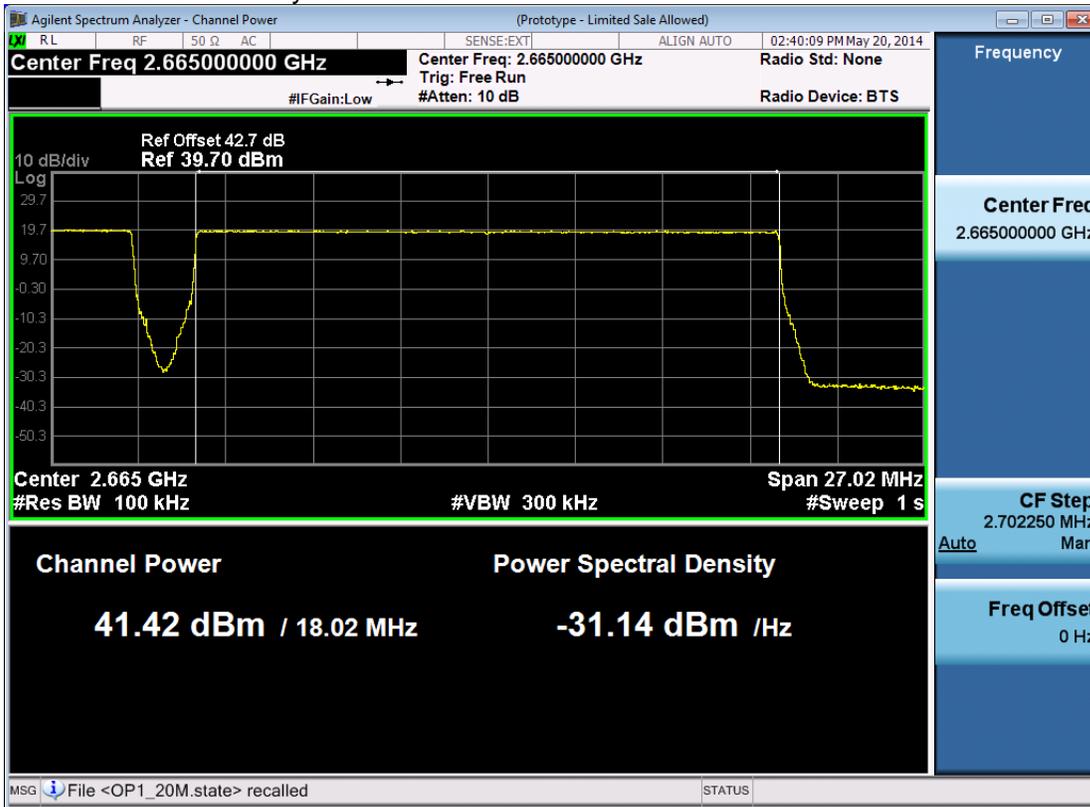
20M+20M -Port 1 –carry2-2650MHz



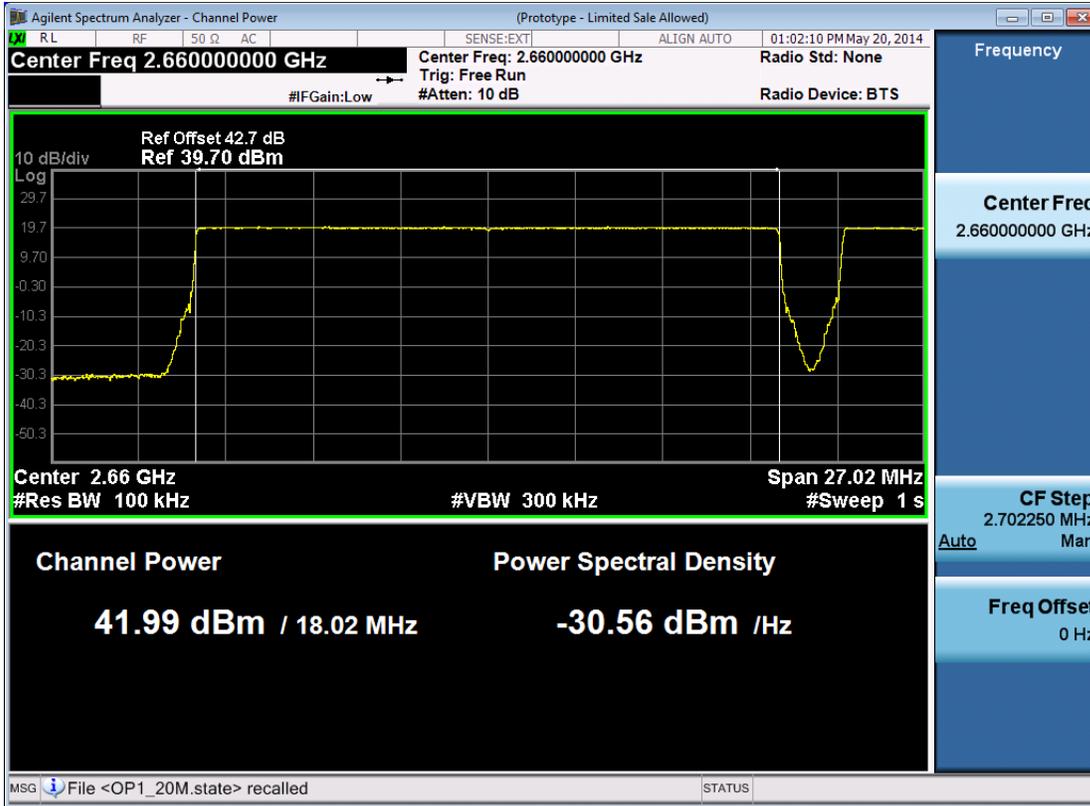
20M+20M -Port 1 –carry1-2645MHz



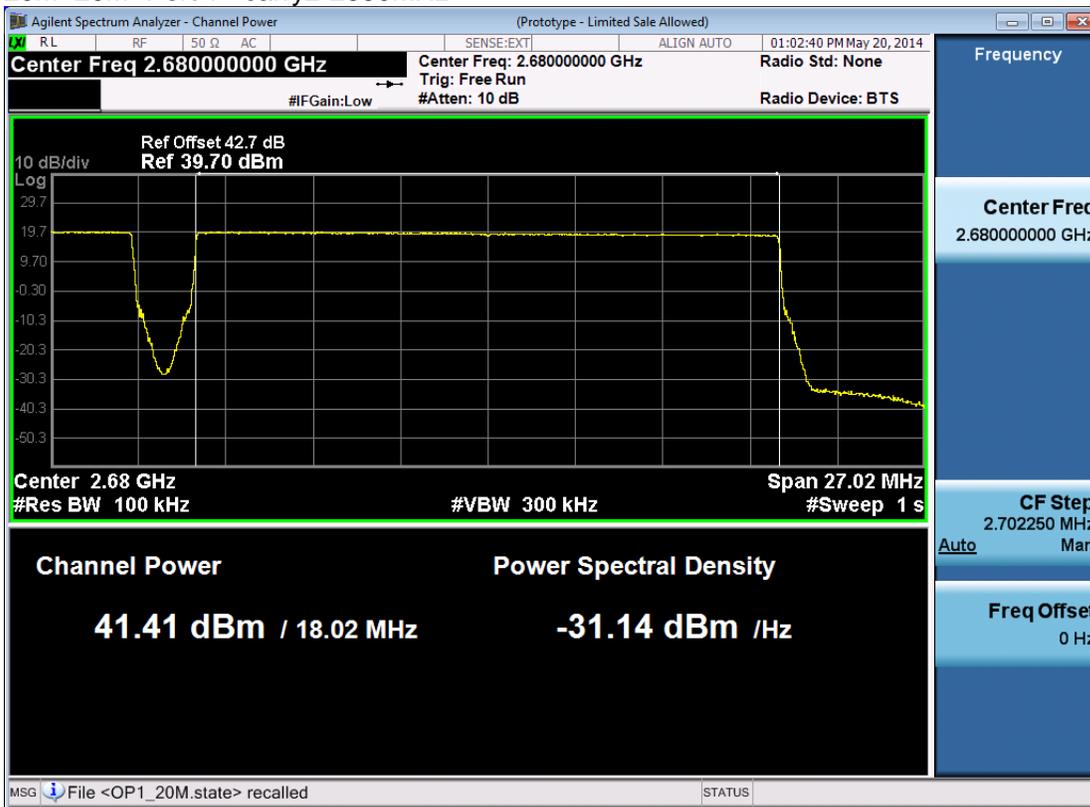
20M+20M -Port 1 –carry2-2665MHz



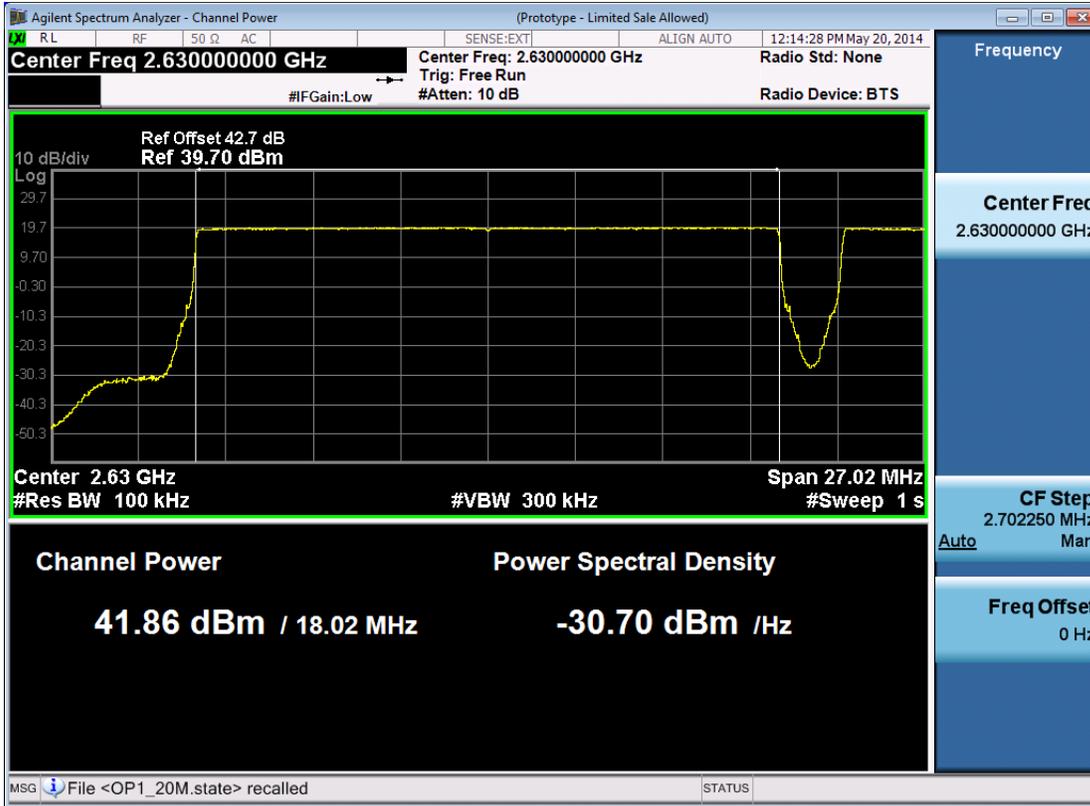
20M+20M -Port 1 –carry1-2660MHz



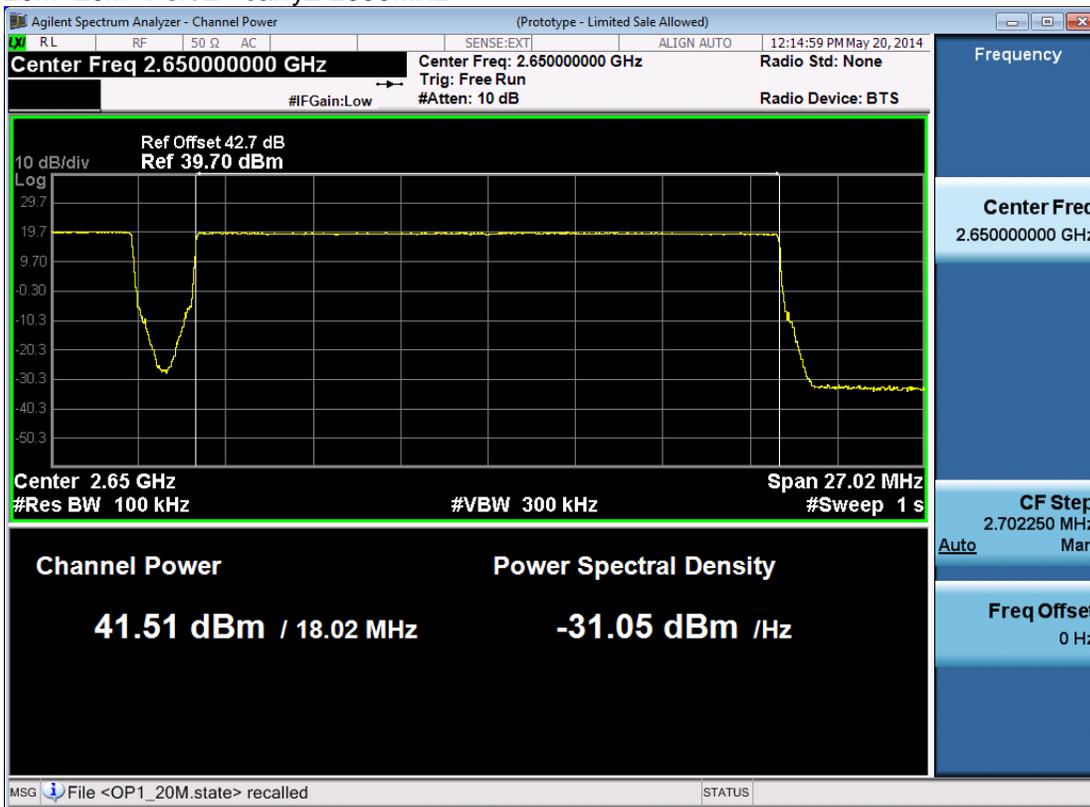
20M+20M -Port 1 -carry2-2680MHz



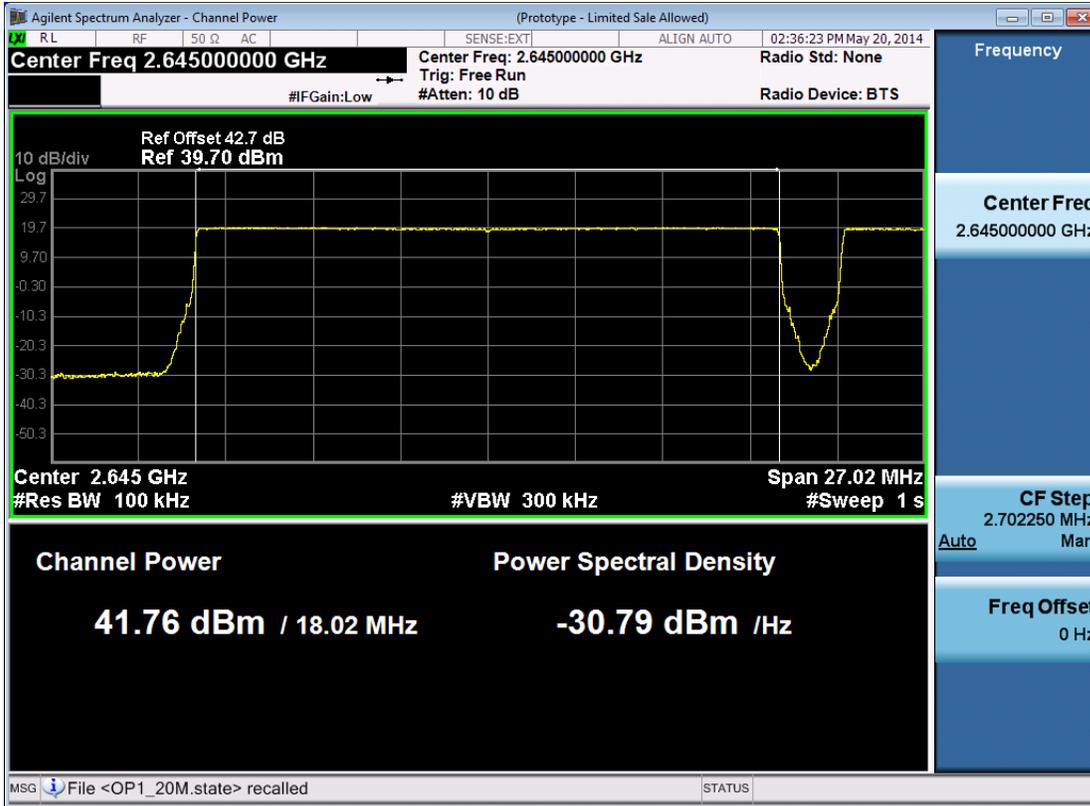
20M+20M -Port 2 -carry1-2630MHz



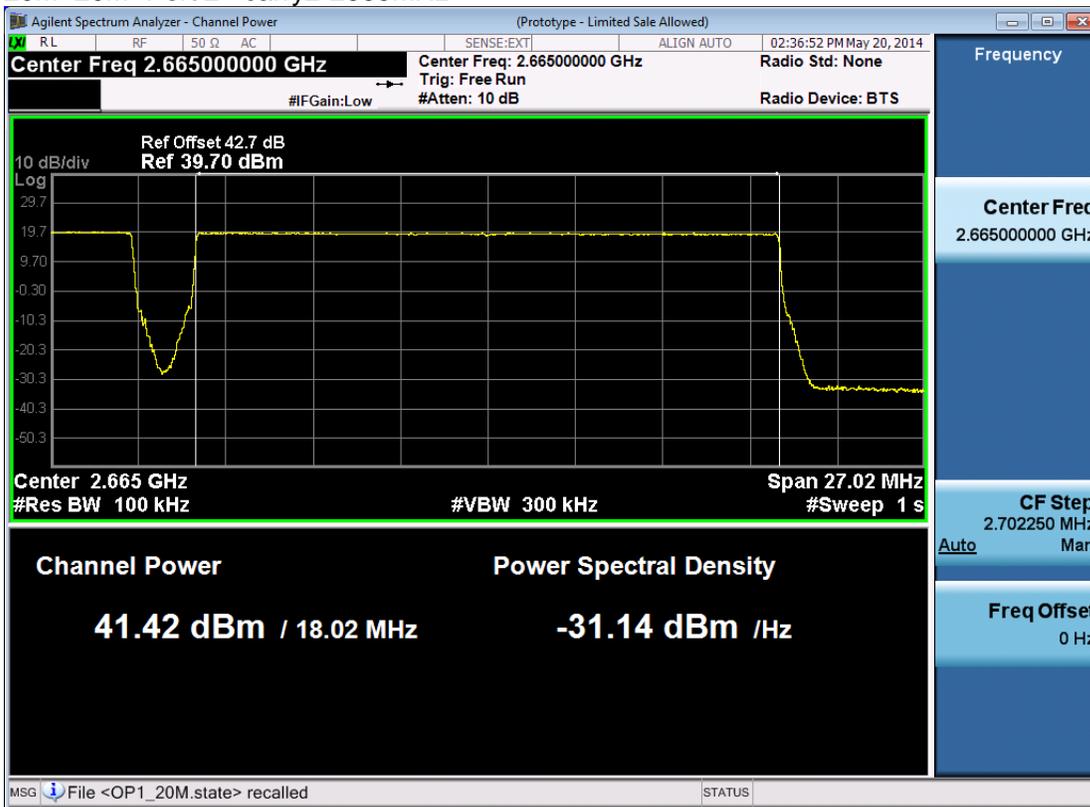
20M+20M -Port 2 -carry2-2650MHz



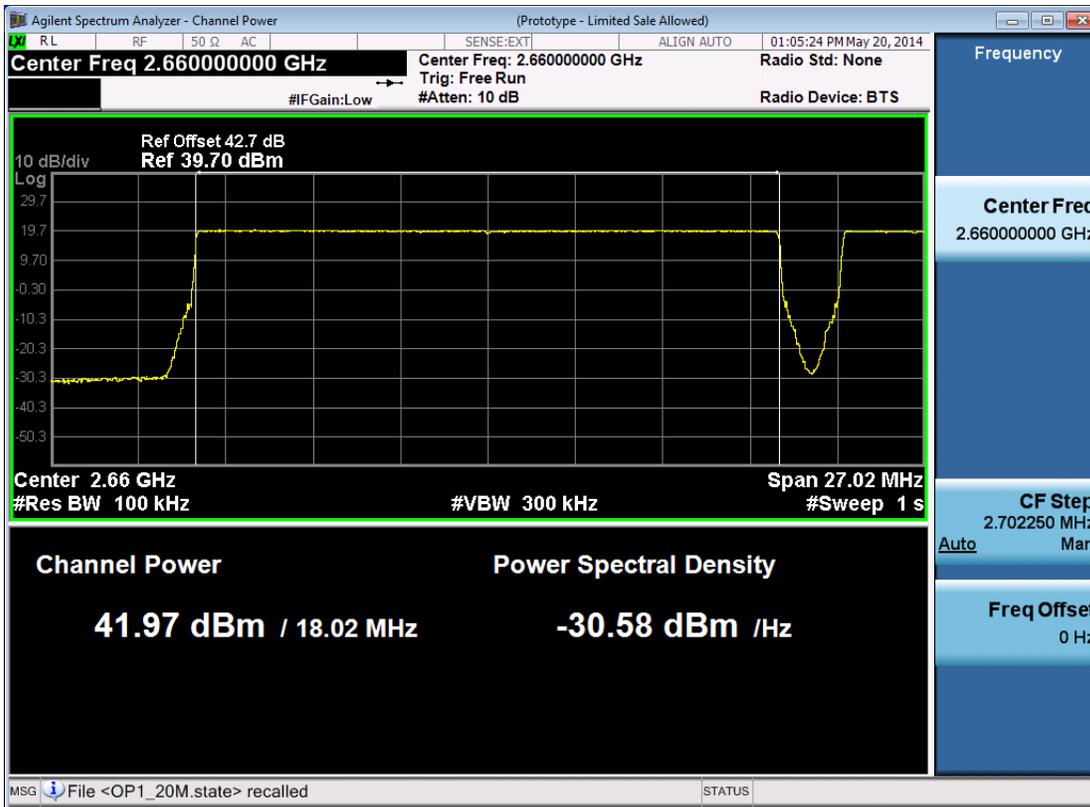
20M+20M -Port 2 -carry1-2645MHz



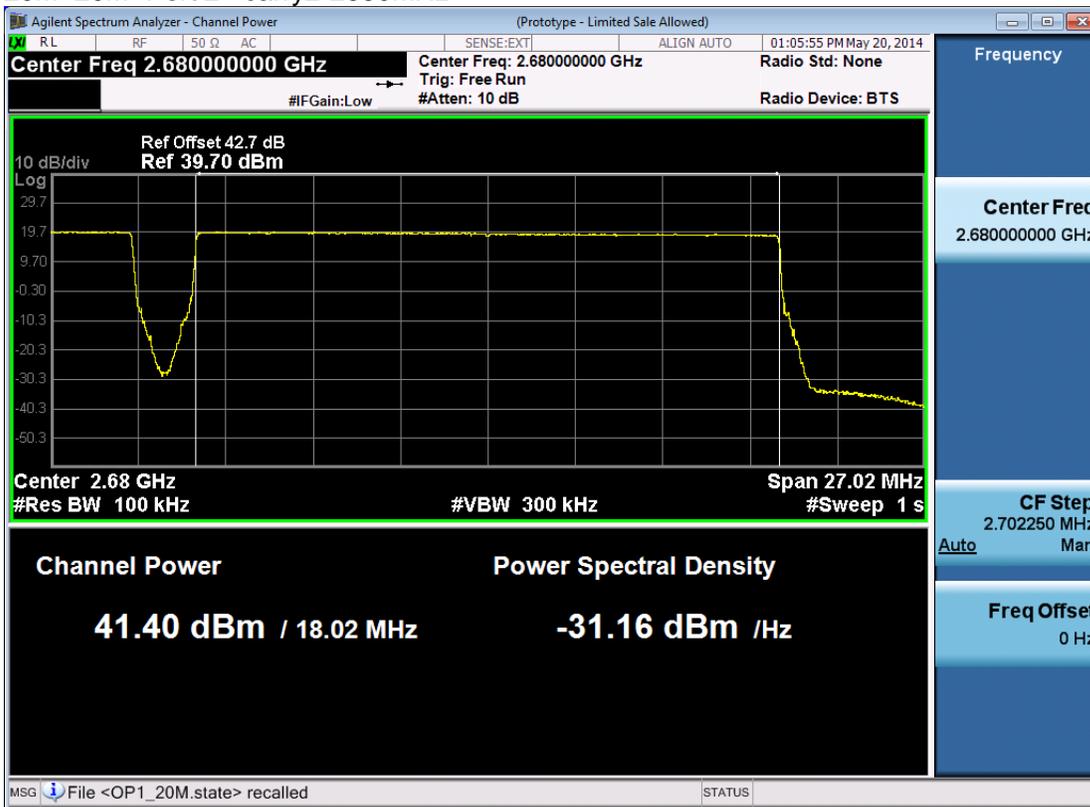
20M+20M -Port 2 -carry2-2665MHz



20M+20M -Port 2 -carry1-2660MHz



### 20M+20M -Port 2 -carry2-2680MHz



# 6 RF EXPOSURE

**Applicable standard:** FCC §2.1091 §1.1037

## Limit

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission’s guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated. Limits for Maximum Permissible Exposure (MPE)

<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

## Test Data

Predication of MPE limit at a given distance  
 Equation from page 18 of OET Bulletin 65, Edition 97-01  
 $S = EIRP / 4\pi R^2$

Where: S = power density

EIRP= equivalent isotropically radiated power=ERP+2.15dB

R = distance to the center of radiation of the antenna= [(ERP+2.15dB)/4πS]<sup>1/2</sup>

According to §27.50 , the effective radiated power (ERP) of base transmitters and cellular repeaters must not exceed 1000 Watts.

Frequency 2690MHz is between 1500MHz and 100,000MHz, and the Maximum S=1mW/cm<sup>2</sup>

⇒ R=4.22m.

This equipment should be installed and operated with minimum distance 4.22m between the radiator& your body.

**Test Result: pass**

# 7 MODULATION CHARACTERISTIC

**Applicable Standard:** FCC §2.1047

## Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	MXA Series Spectrum Analyzer	N9030A	MY49431143	2013.06.18	2014.06.18
DTS	DTS 40dB Attenuator	DTS100-40-3-1	09112005	2013.07.19	2014.07.19
Silverline	Silverline RF Cable	SLA18-NMN1T	100311-04-0001	N/A	N/A

**\*statement of traceability:** ZTE Corporation Reliability Testing Center attest that all calibration have been performed per the NVLAP requirements , traceable to NIST.

## Test Procedure

LTE digital mode is used by EUT.

## Test Data Environmental Conditions

Temperature:	20 °C
Relative Humidity:	53 %
ATM Pressure:	1009 mbar

**Test Result:** Pass

**Test Mode:** Transmitting LTE

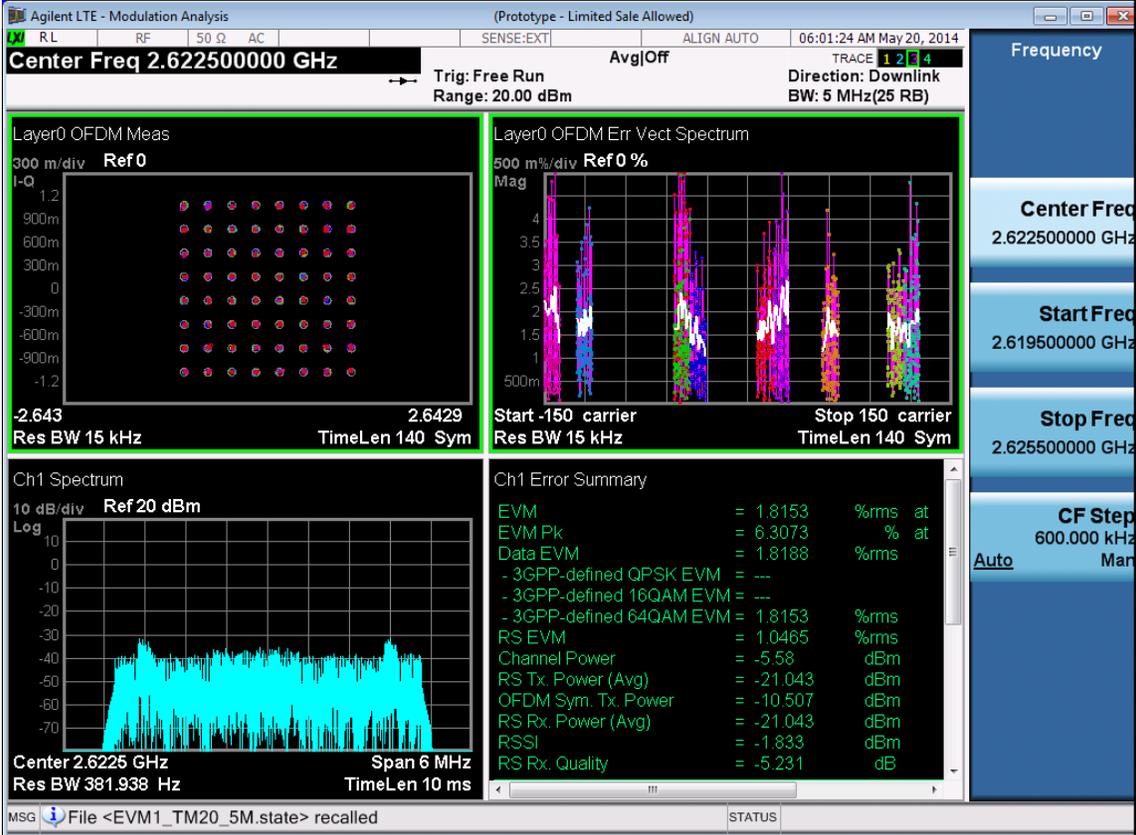
## Test Data:

### Single Carrier:

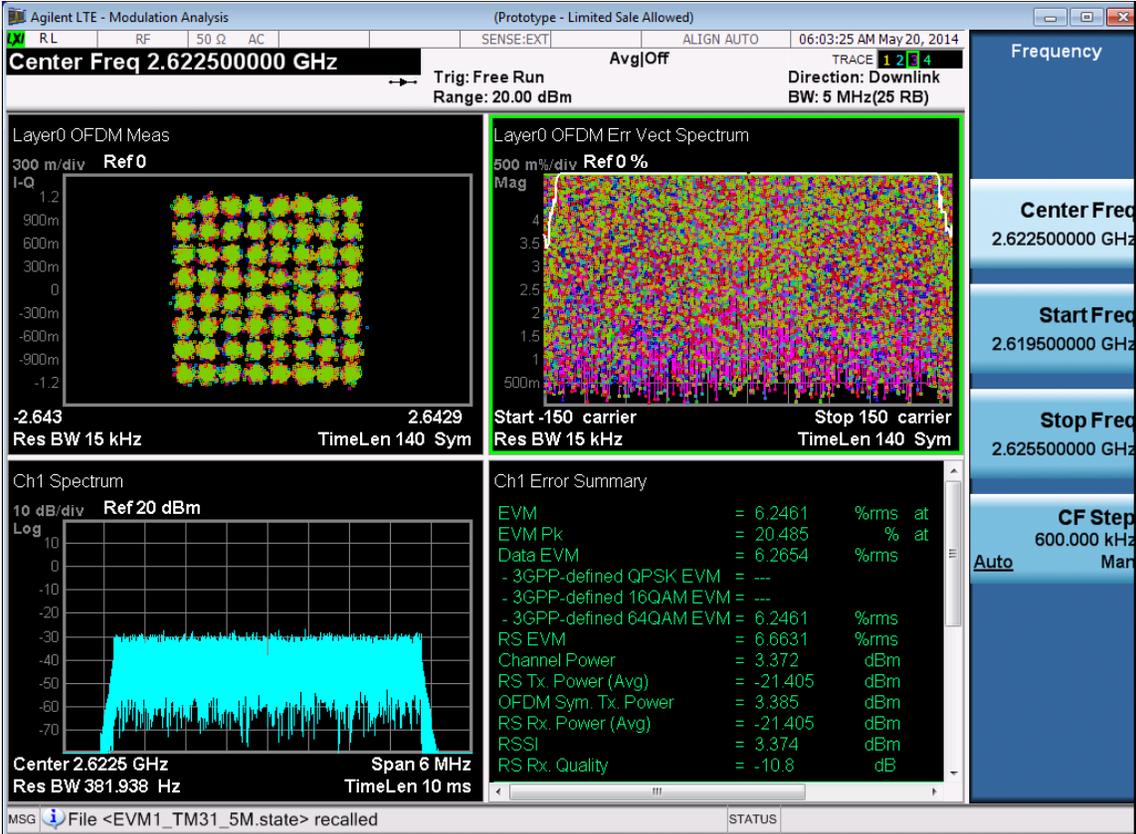
Channel Bandwidth :5M

Port	Frequency (MHz)	Test mode	EVM
1	2622.5	TM2.0	1.815
		TM3.1	6.246
		TM3.2	7.656
		TM3.3	14.328
	2655	TM2.0	1.888
		TM3.1	6.302
		TM3.2	7.661
		TM3.3	14.294
	2687.5	TM2.0	2.366
		TM3.1	6.233
		TM3.2	7.666
		TM3.3	14.345
2	2622.5	TM2.0	1.907
		TM3.1	6.226
		TM3.2	7.653
		TM3.3	14.050
	2655	TM2.0	1.711
		TM3.1	6.245
		TM3.2	7.654
		TM3.3	14.298
	2687.5	TM2.0	2.496
		TM3.1	6.243
		TM3.2	7.671
		TM3.3	14.289

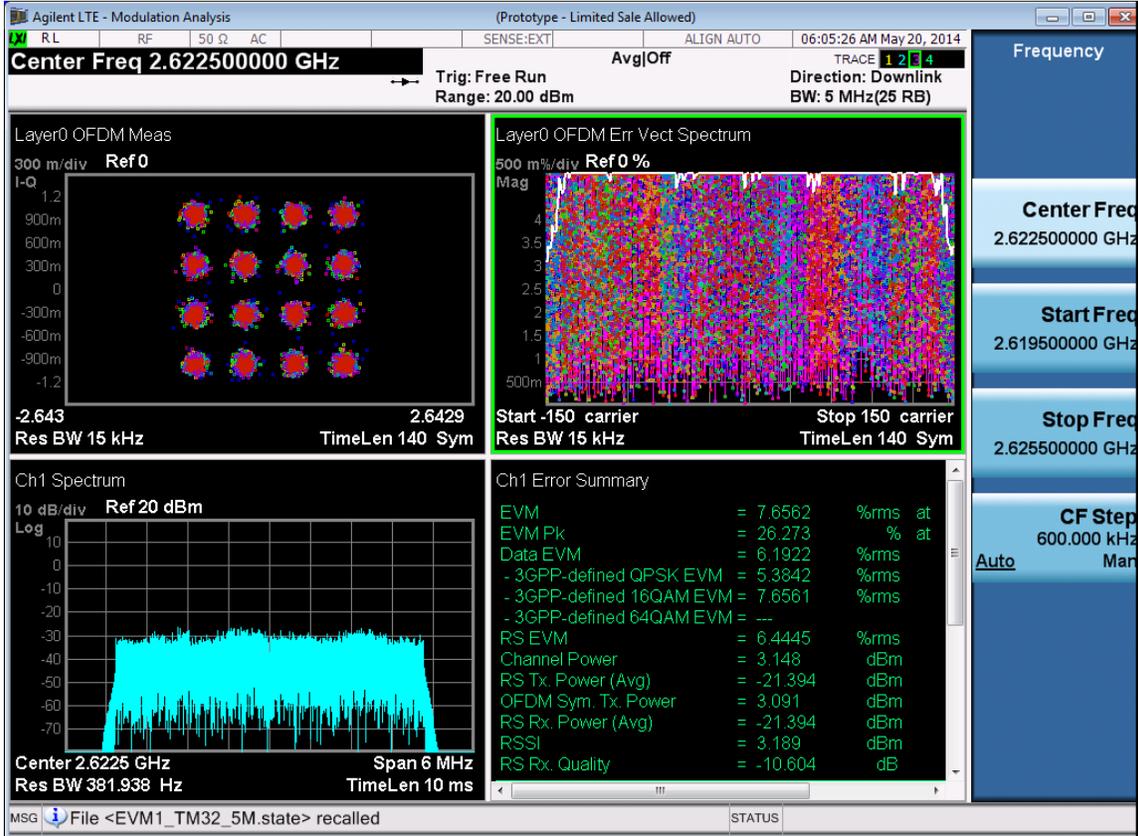
5M -Port 1 -2622.5MHz-TM2.0



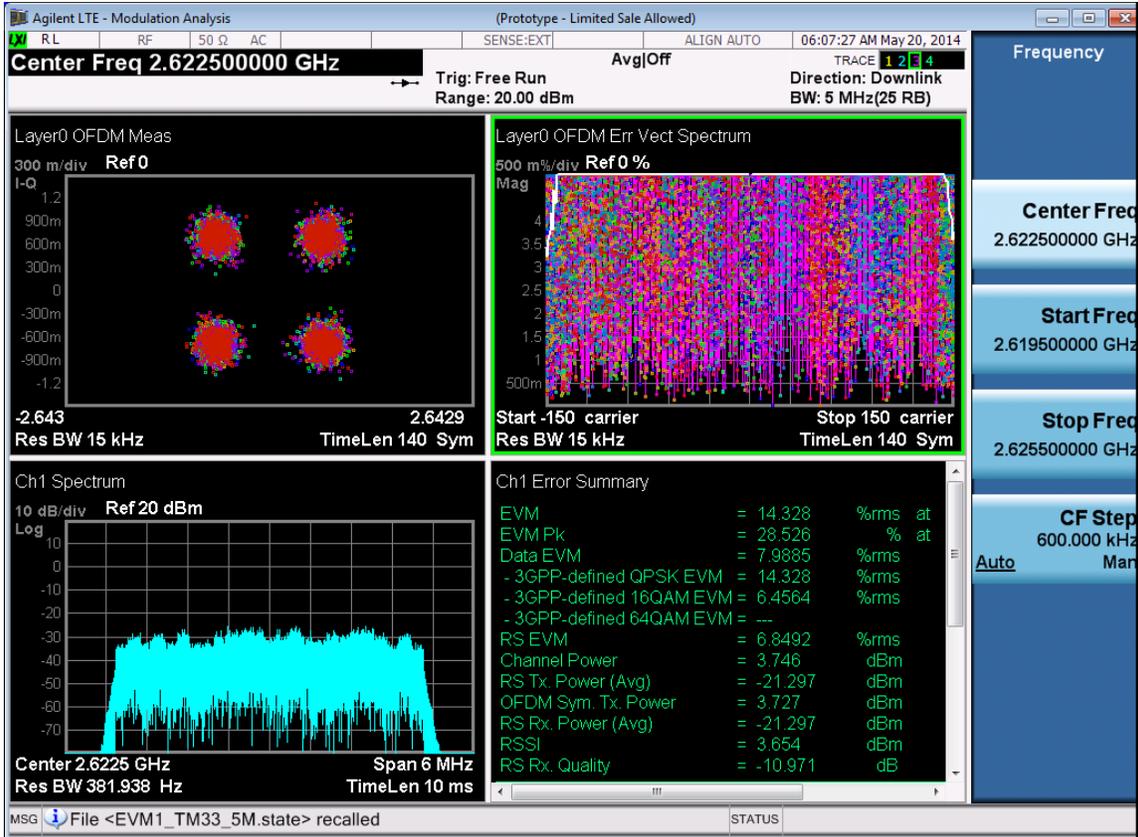
5M -Port 1 -2622.5MHz -TM3.1



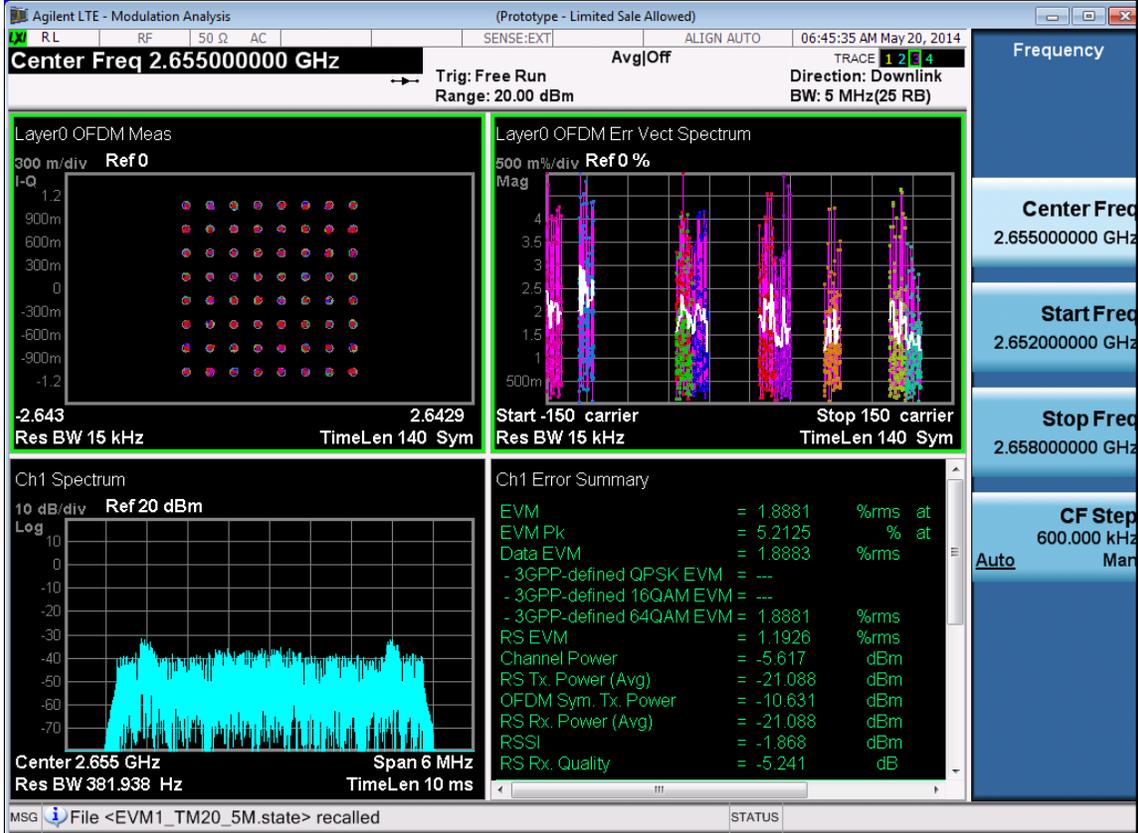
## 5M -Port 1 -2622.5MHz -TM3.2



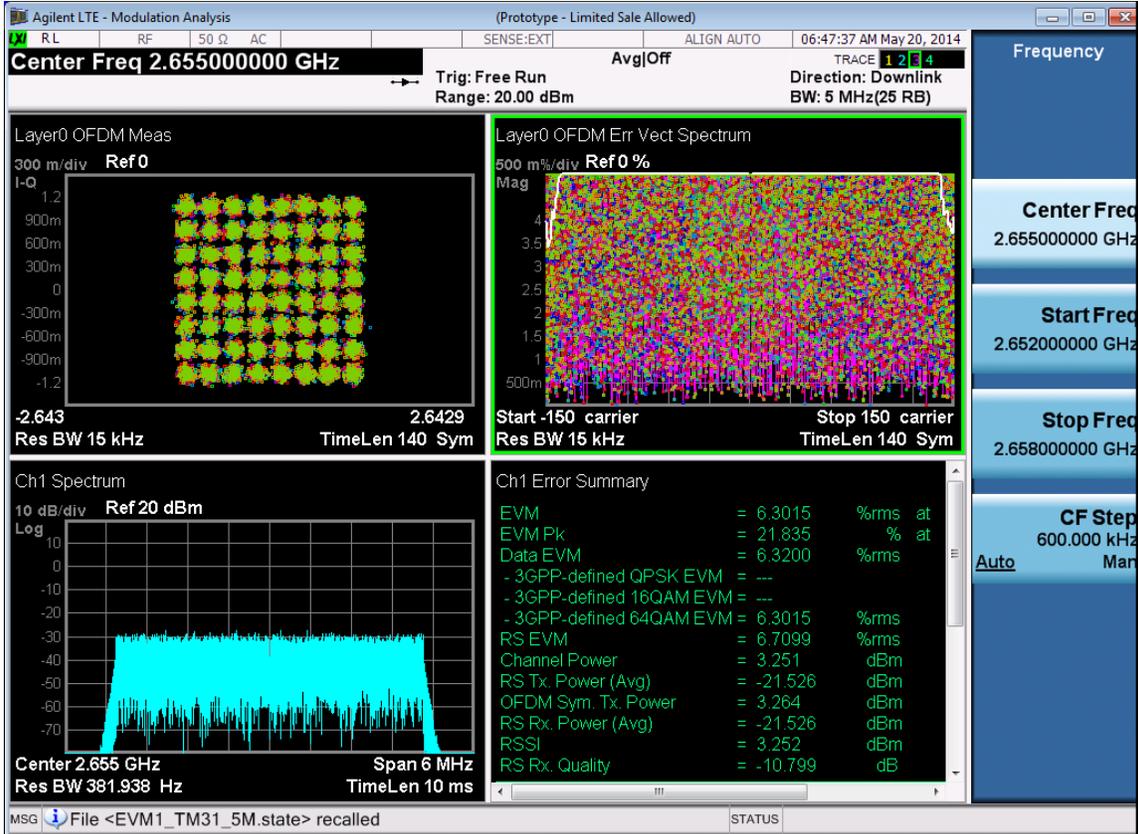
## 5M -Port 1 -2622.5MHz -TM3.3



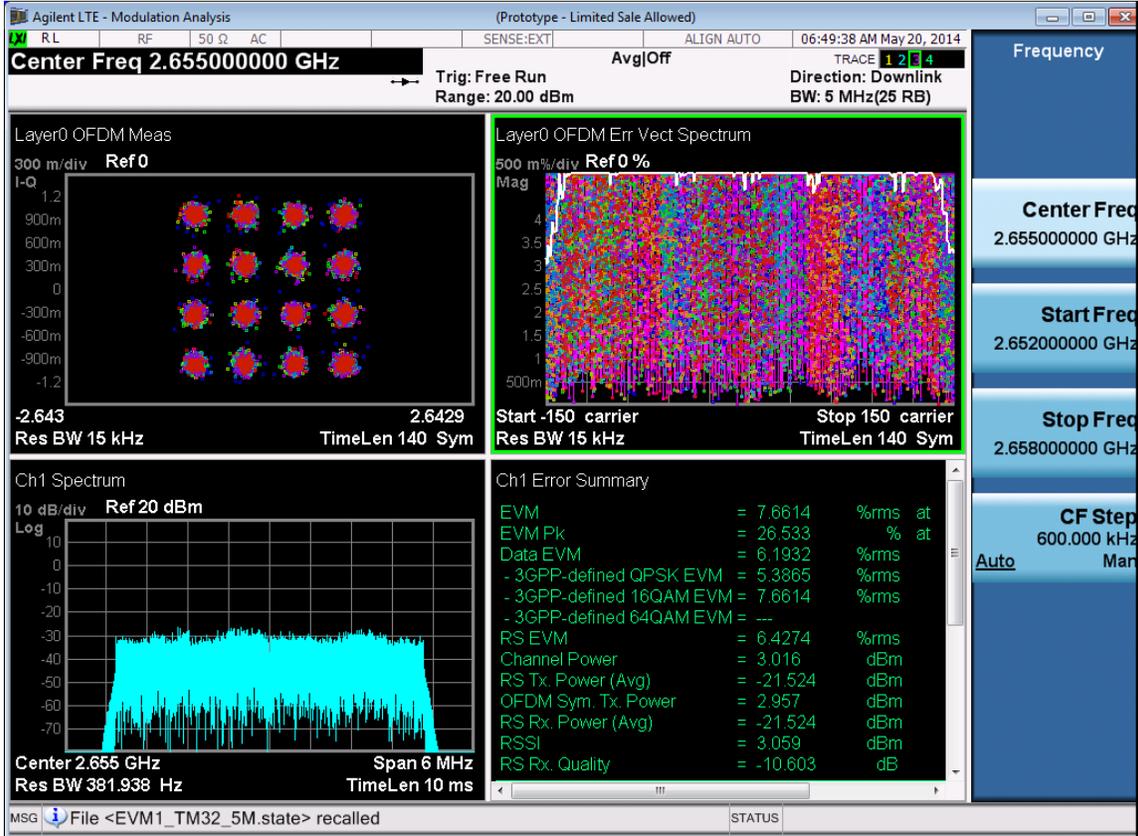
5M -Port 1 -2655MHz-TM2.0



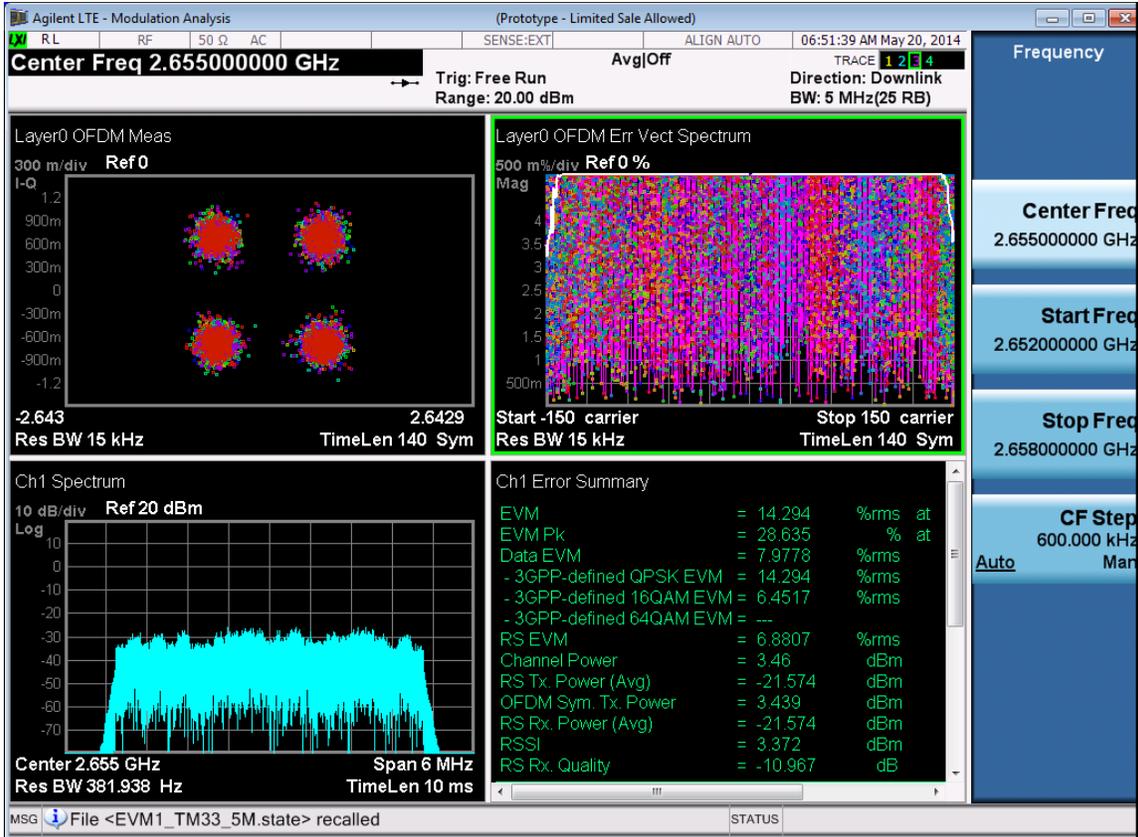
### 5M -Port 1 -2655MHz -TM3.1



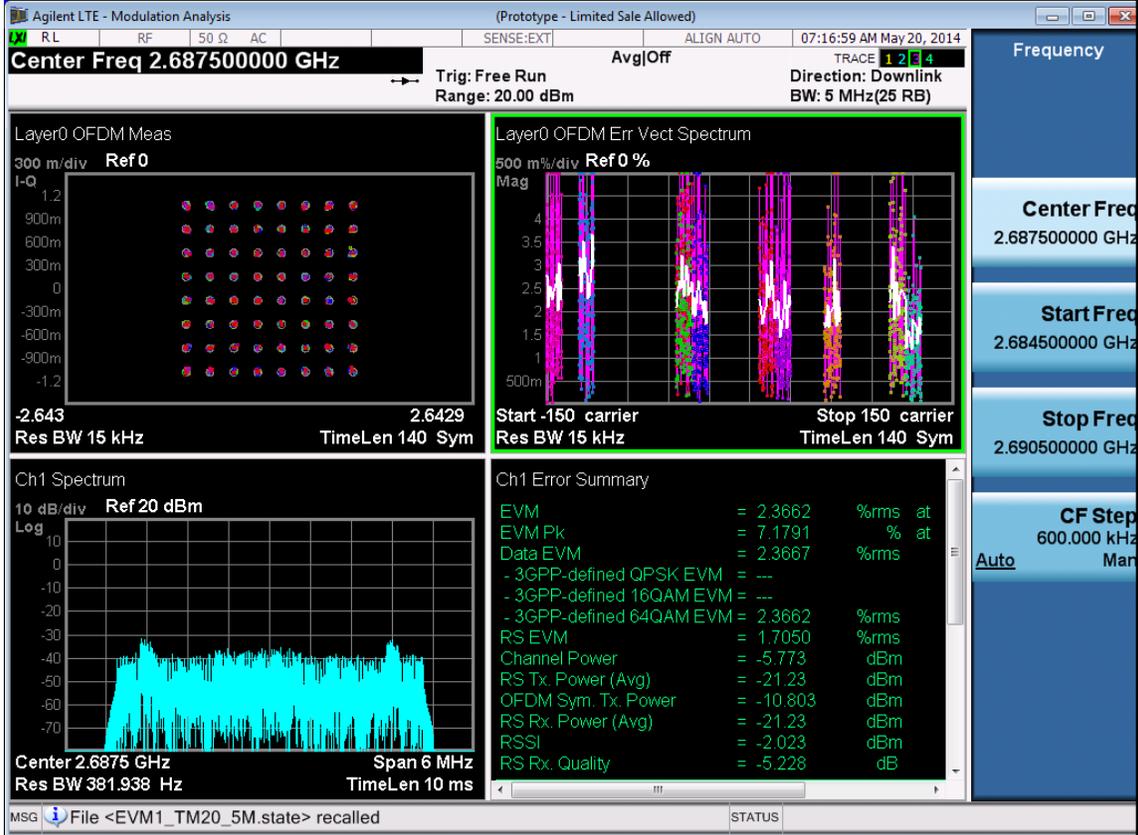
## 5M -Port 1 -2655MHz -TM3.2



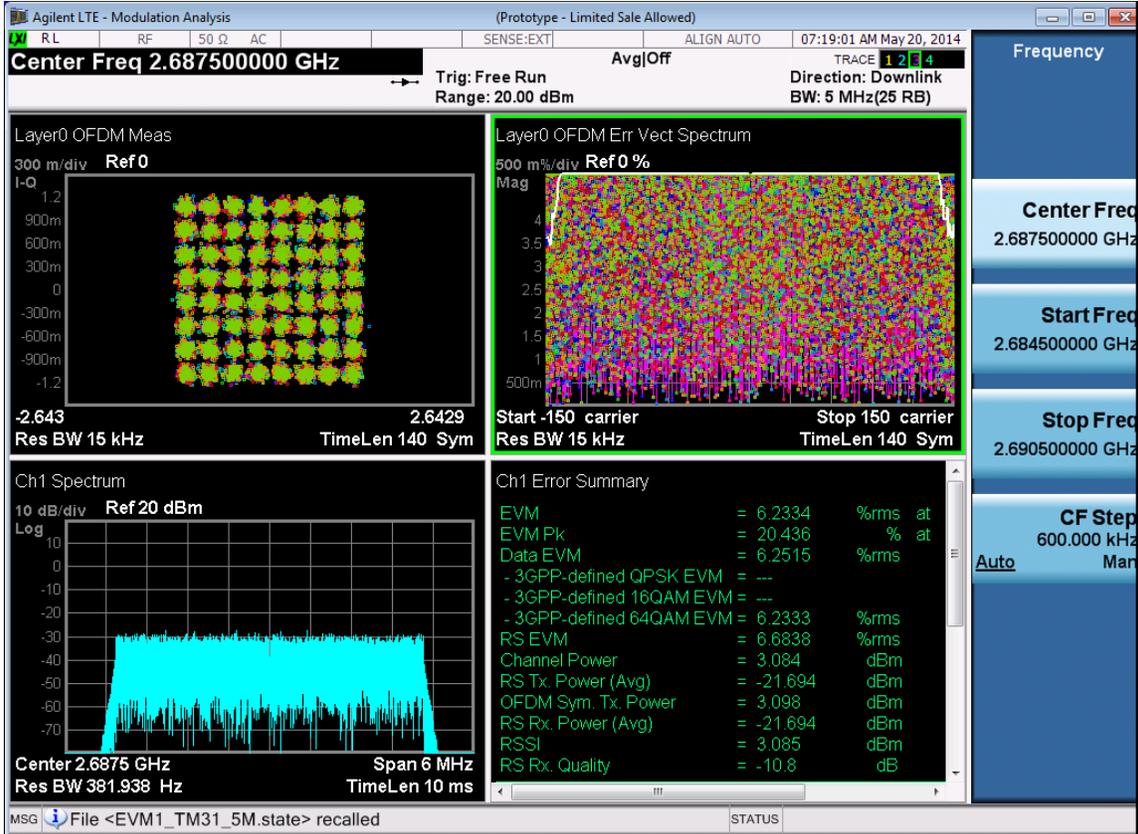
## 5M -Port 1 -2655MHz -TM3.3



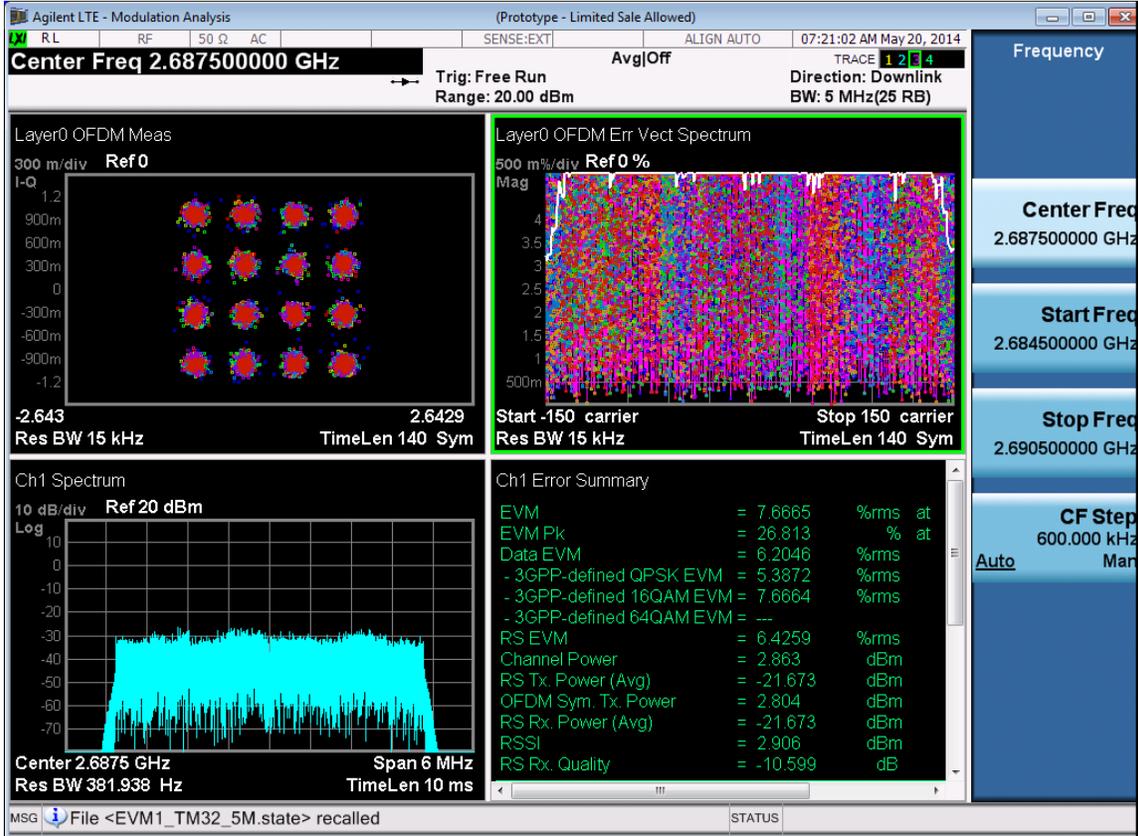
5M -Port 1 -2687.5MHz-TM2.0



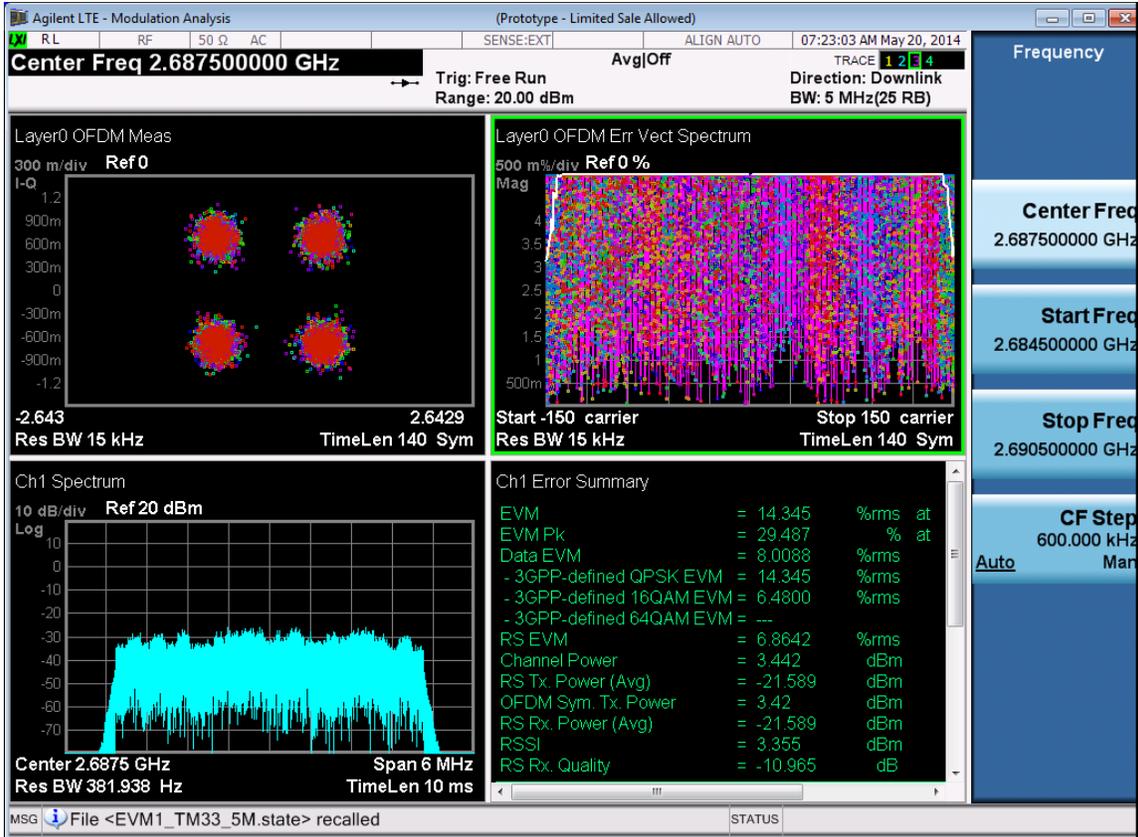
### 5M -Port 1 -2687.5MHz -TM3.1



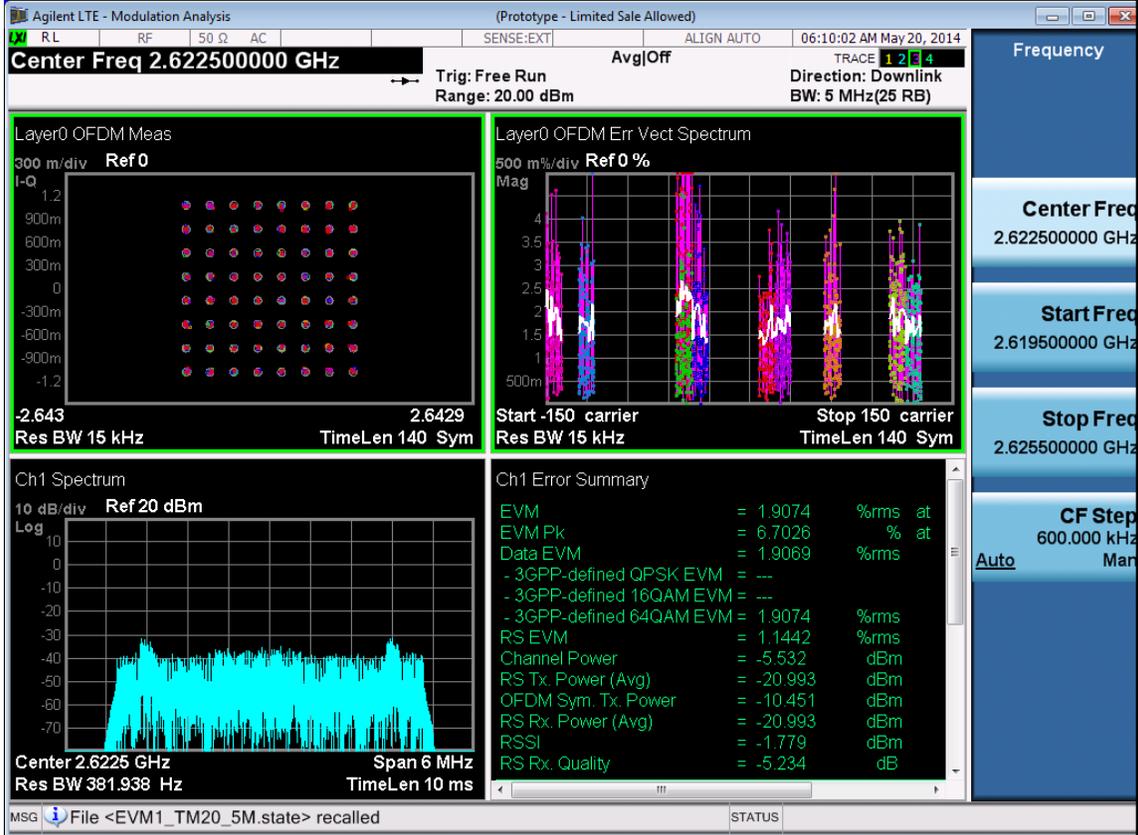
## 5M -Port 1 -2687.5MHz -TM3.2



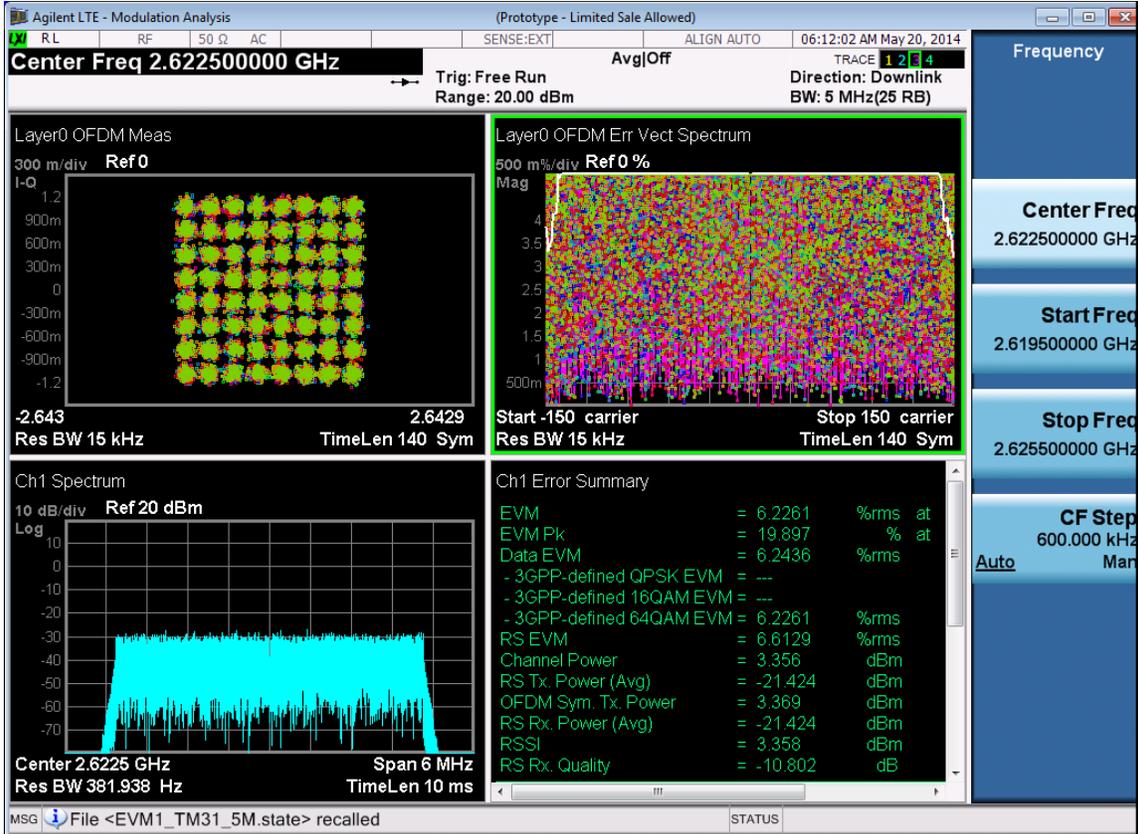
## 5M -Port 1 -2687.5MHz -TM3.3



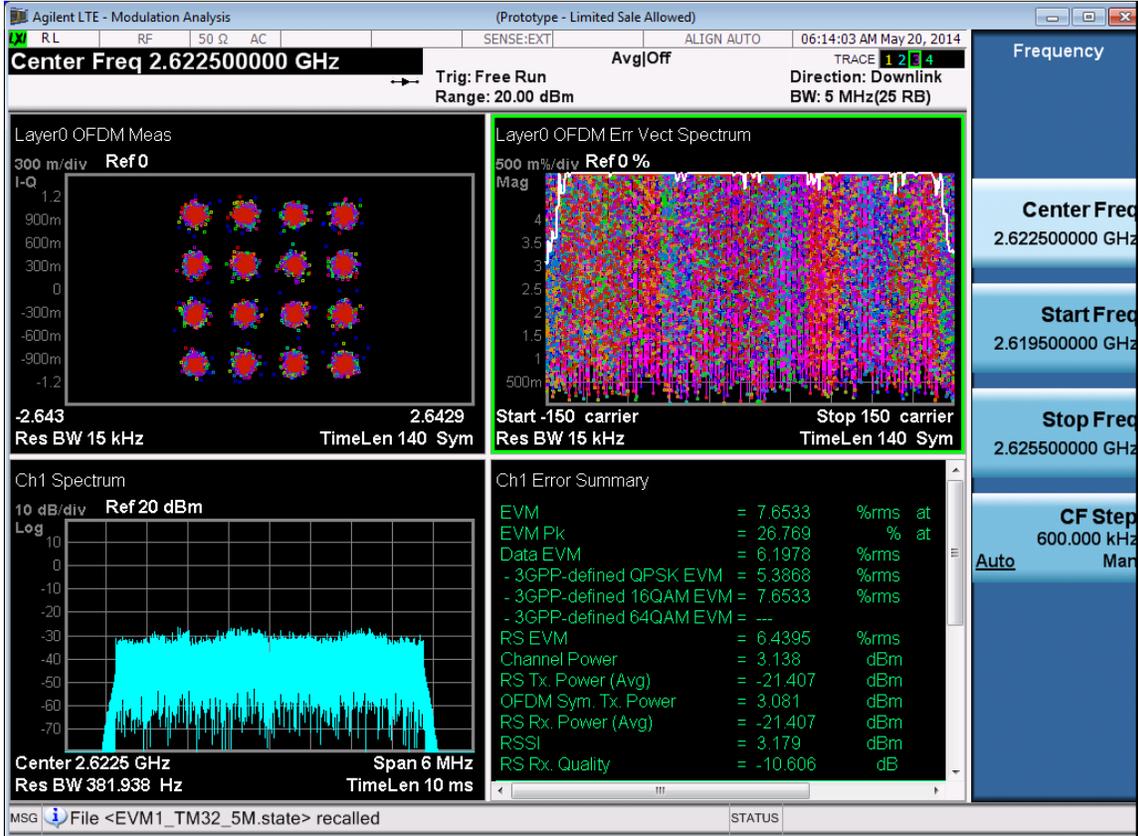
5M -Port 2-2622.5MHz -TM2.0



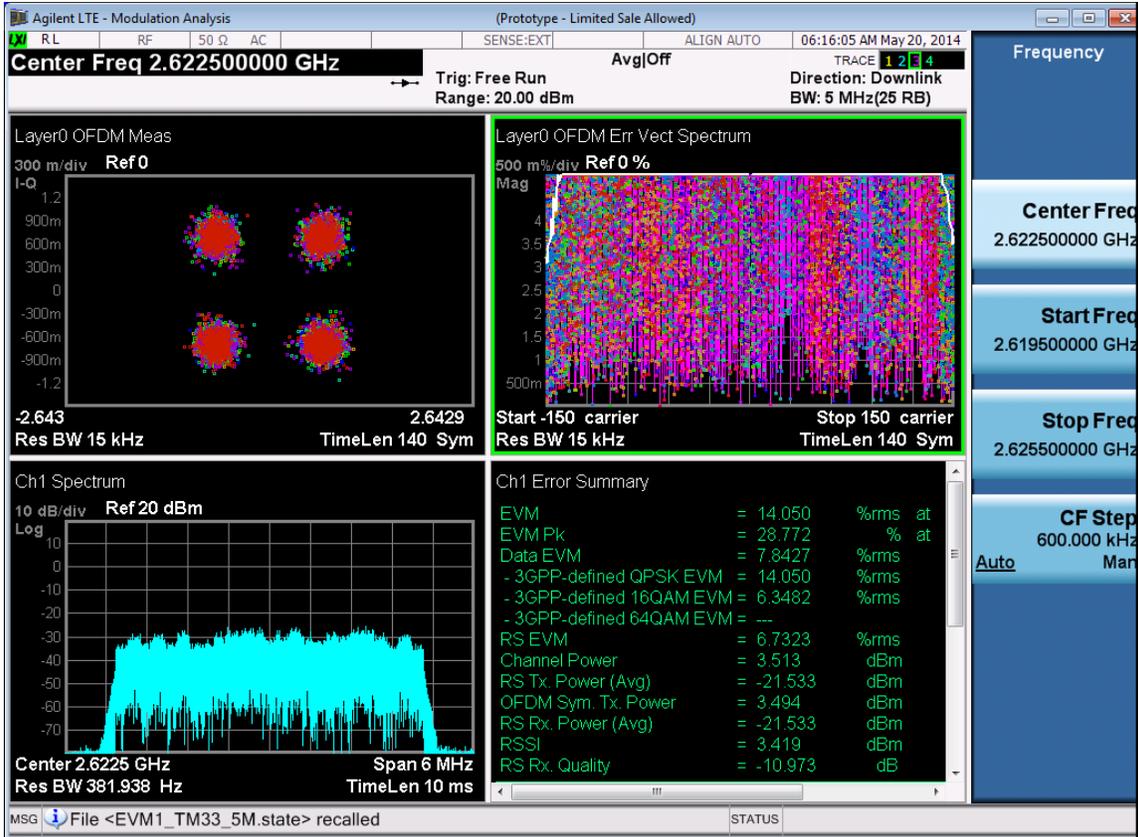
### 5M -Port 2 -2622.5MHz -TM3.1



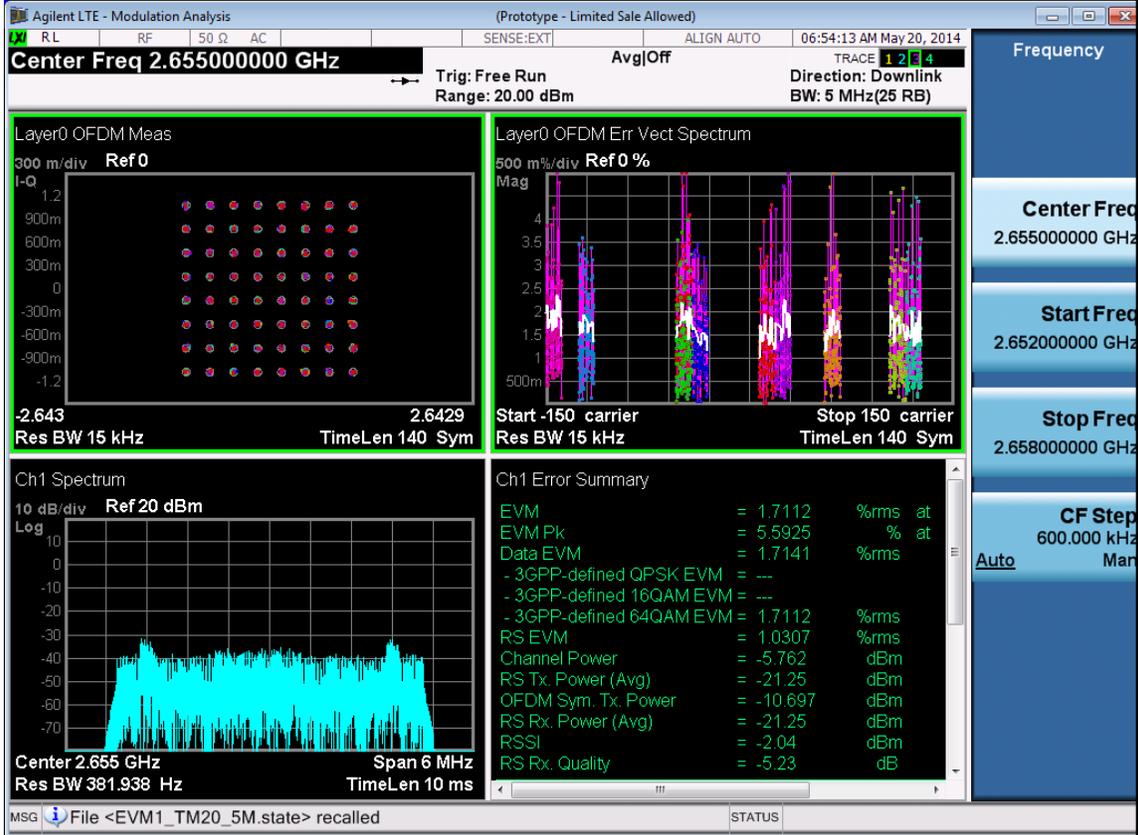
## 5M -Port 2 -2622.5MHz -TM3.2



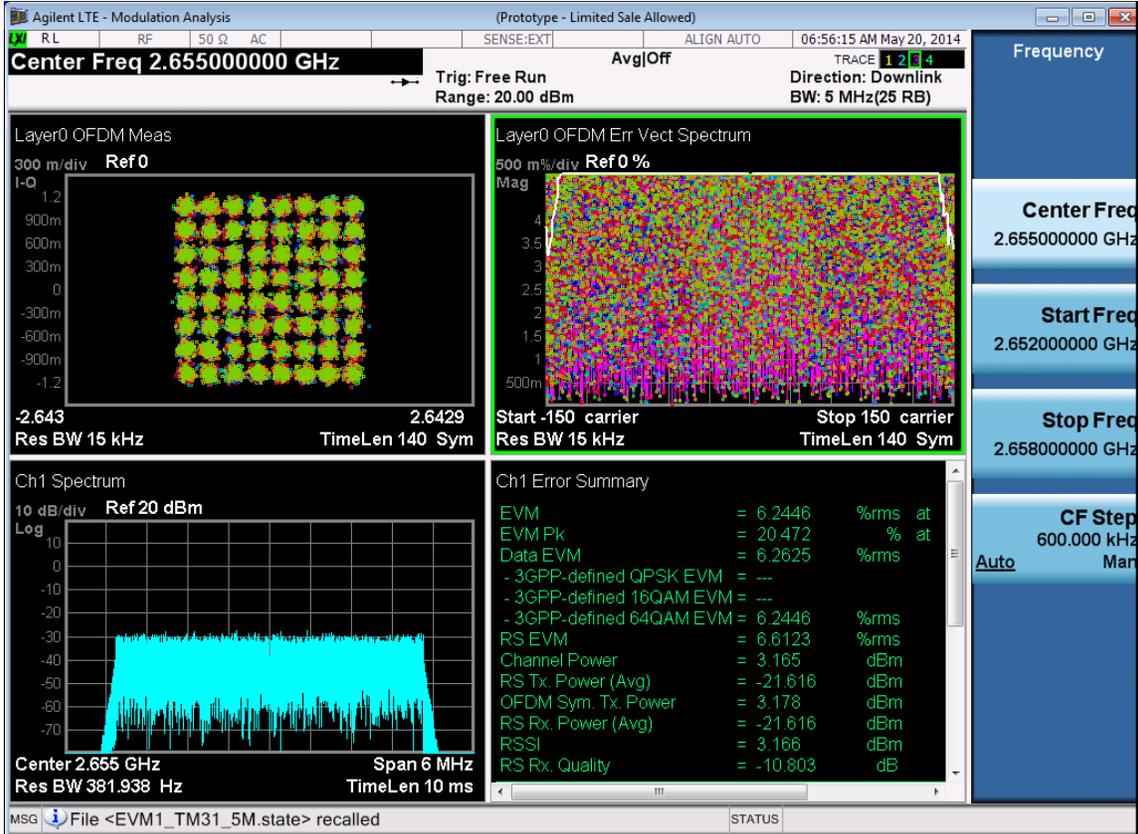
## 5M -Port 2 -2622.5MHz -TM3.3



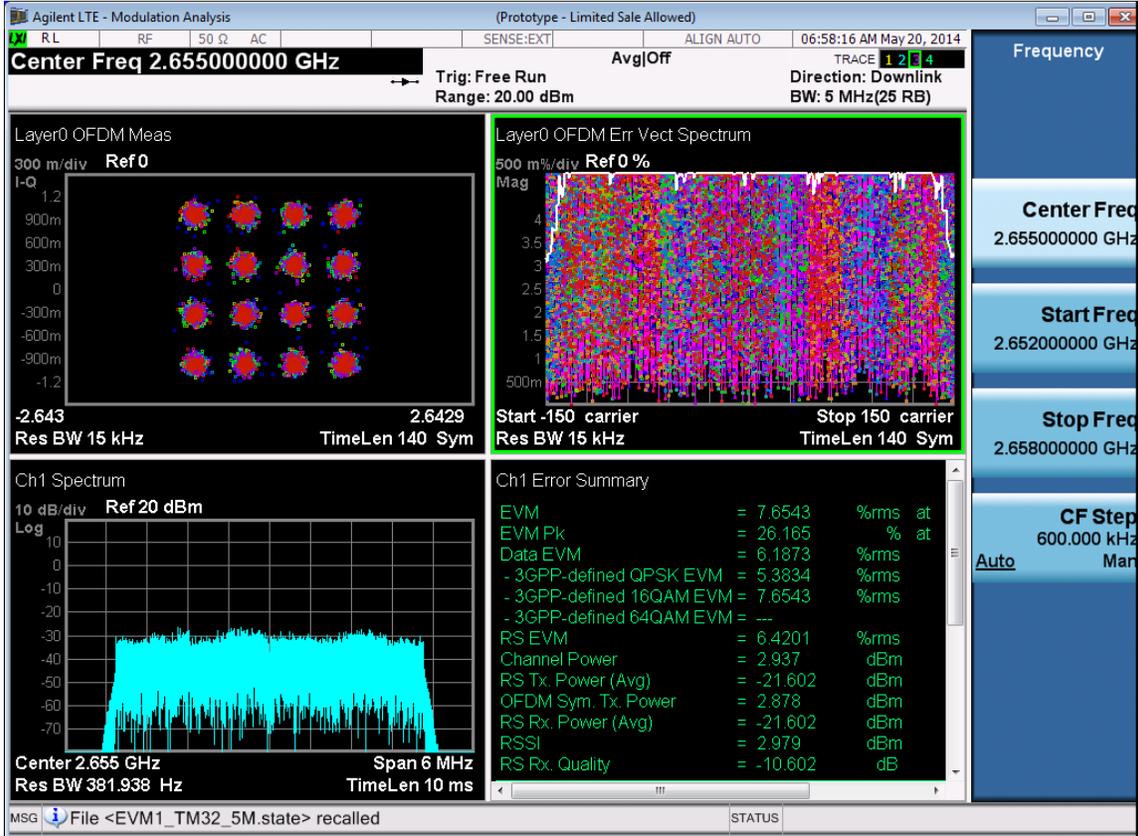
5M -Port 2 -2655MHz -TM2.0



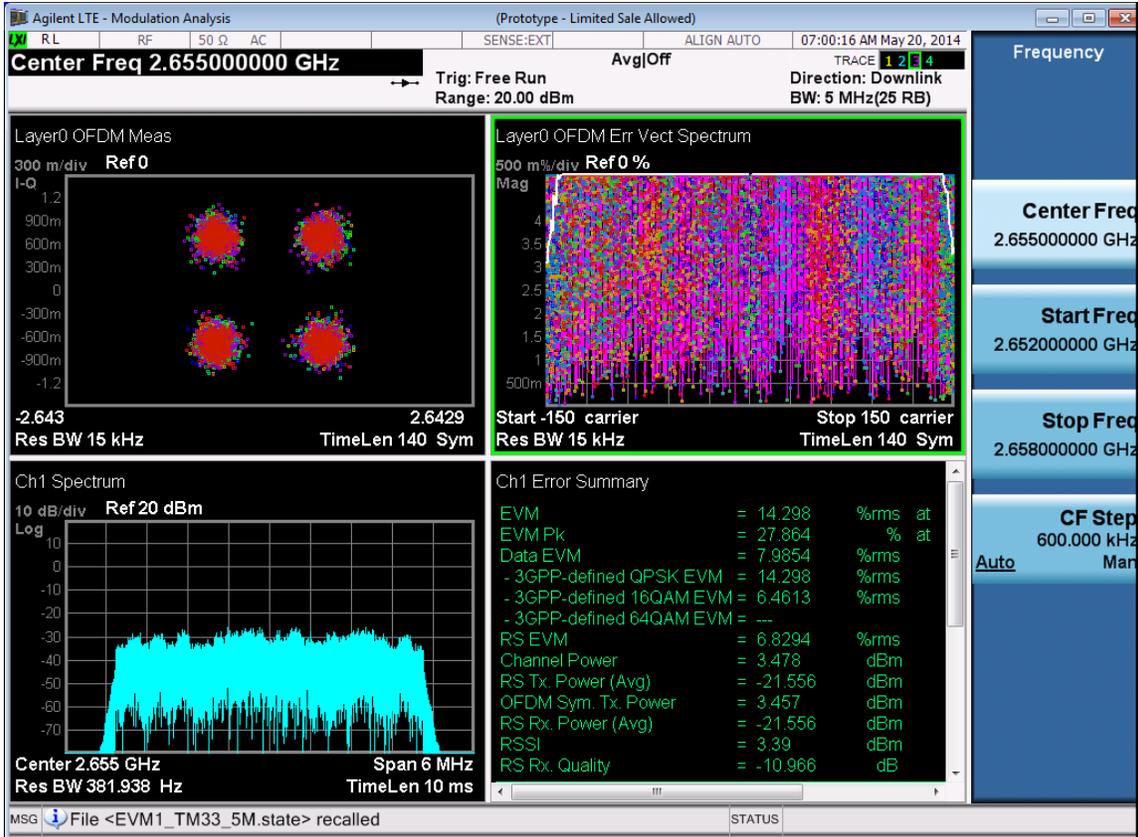
### 5M -Port 2 -2655MHz -TM3.1



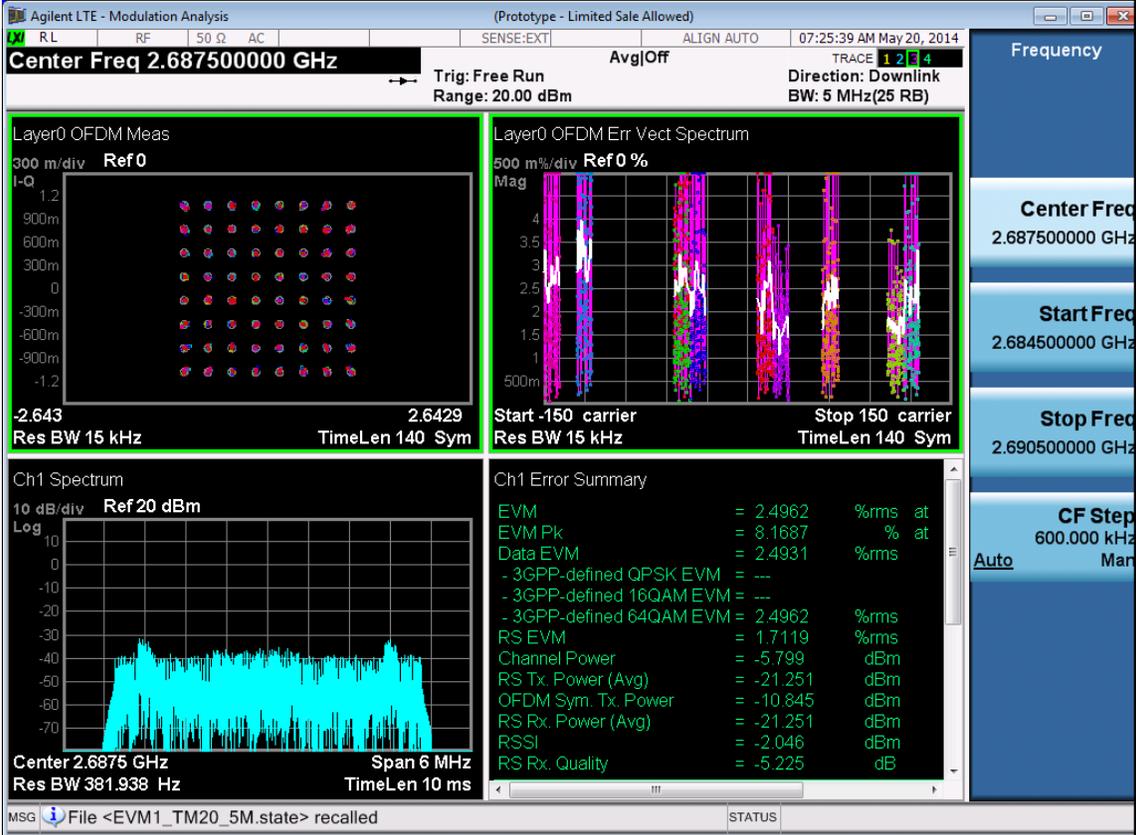
## 5M -Port 2 -2655MHz -TM3.2



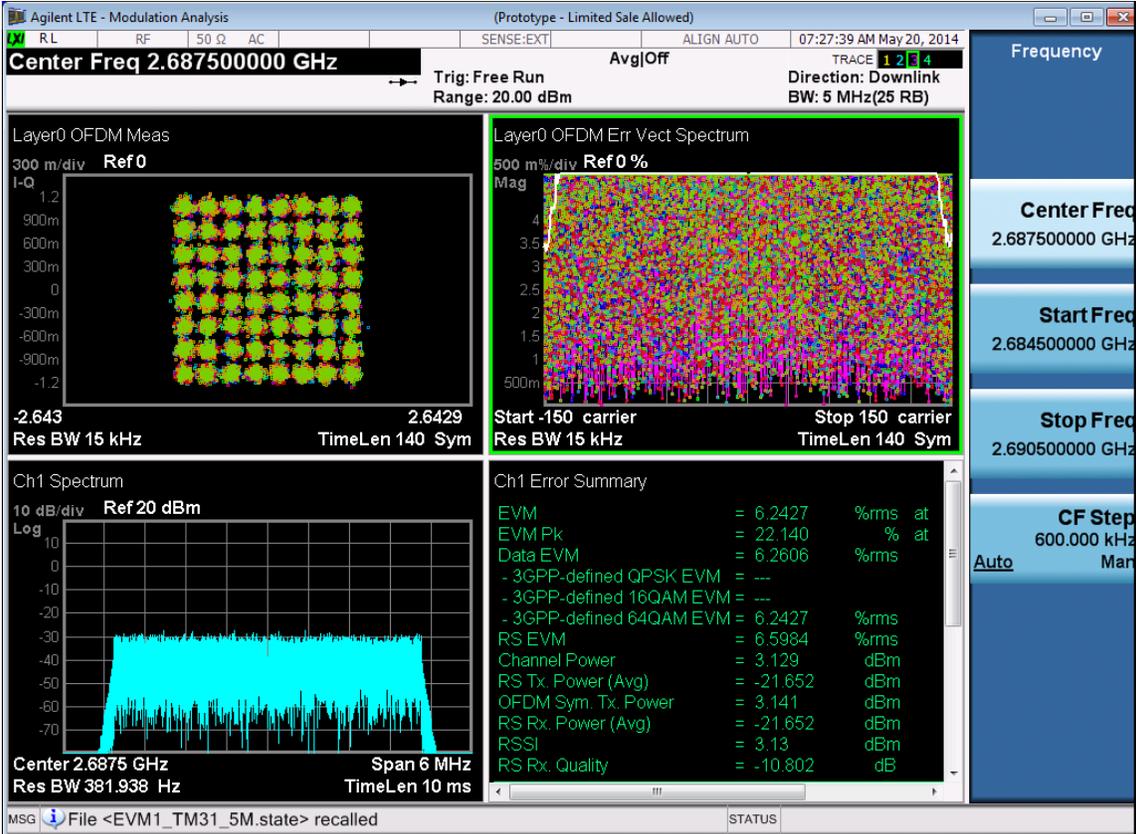
## 5M -Port 2 -2655MHz -TM3.3



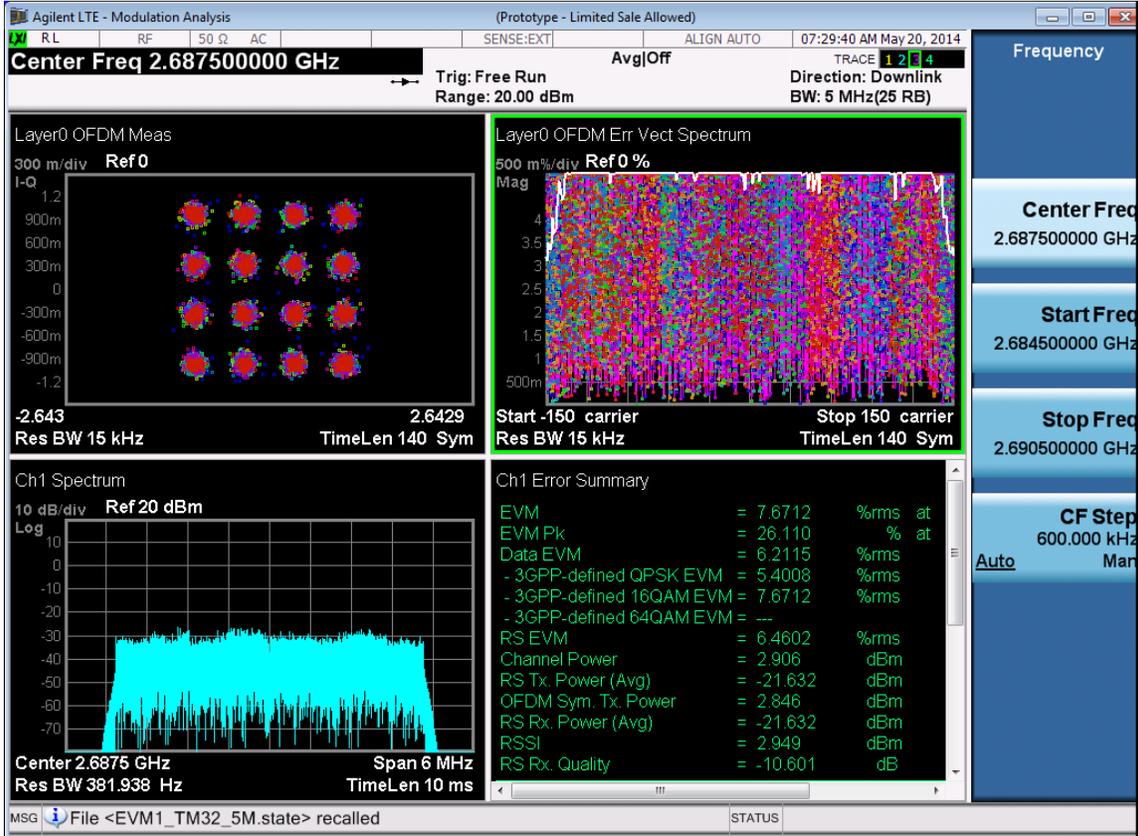
5M -Port 2 -2687.5MHz -TM2.0



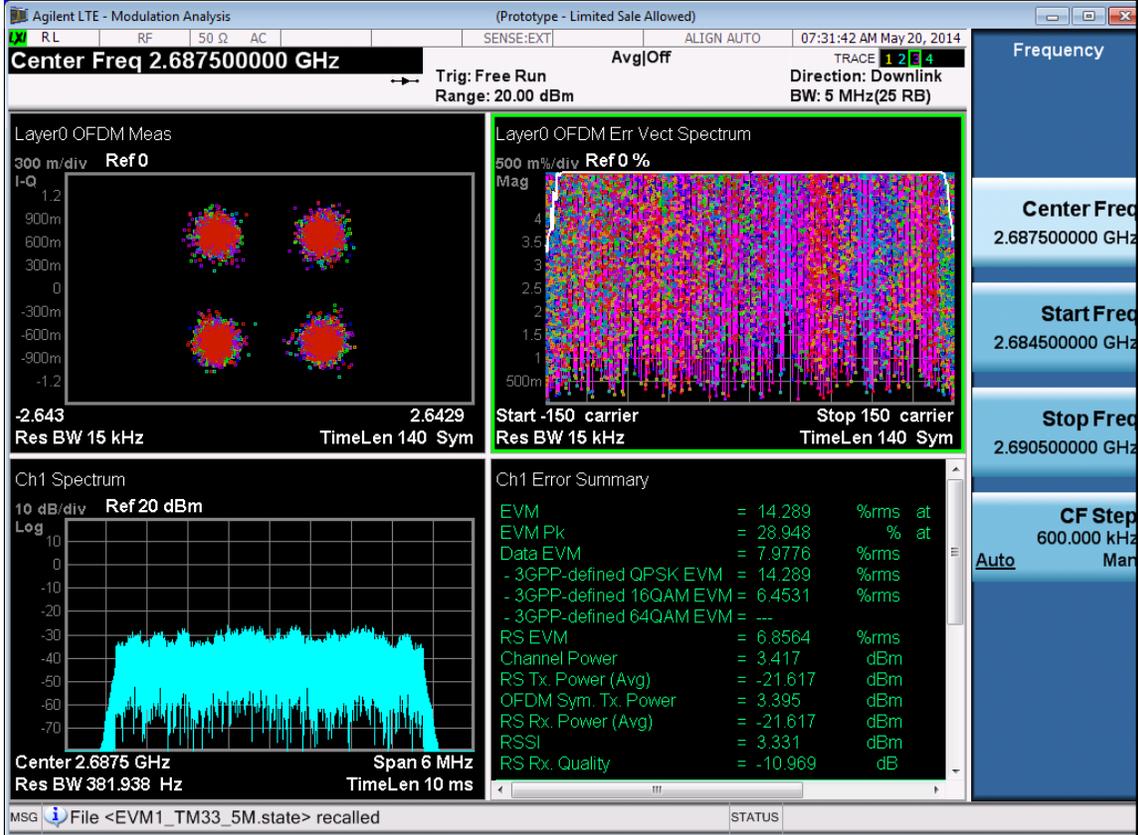
5M -Port 2 -2687.5MHz -TM3.1



## 5M -Port 2 -2687.5MHz -TM3.2



## 5M -Port 2 -2687.5MHz -TM3.3

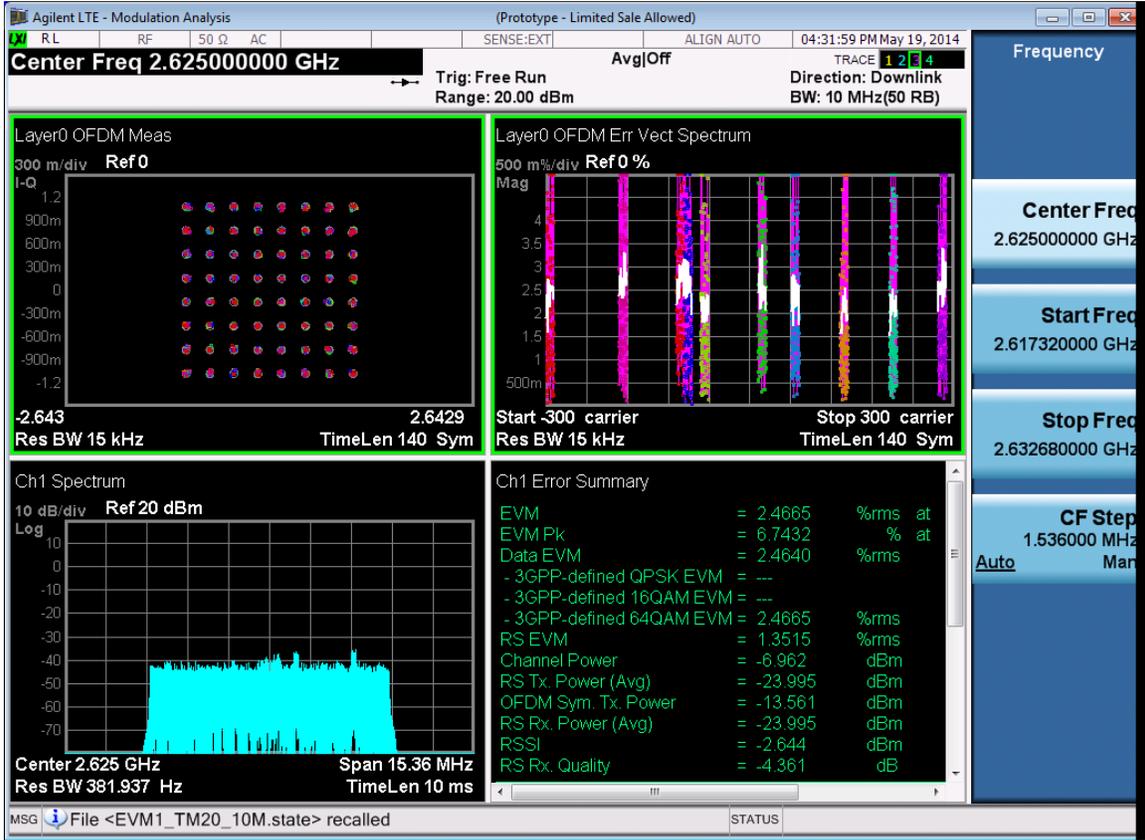


Channel Bandwidth :10M

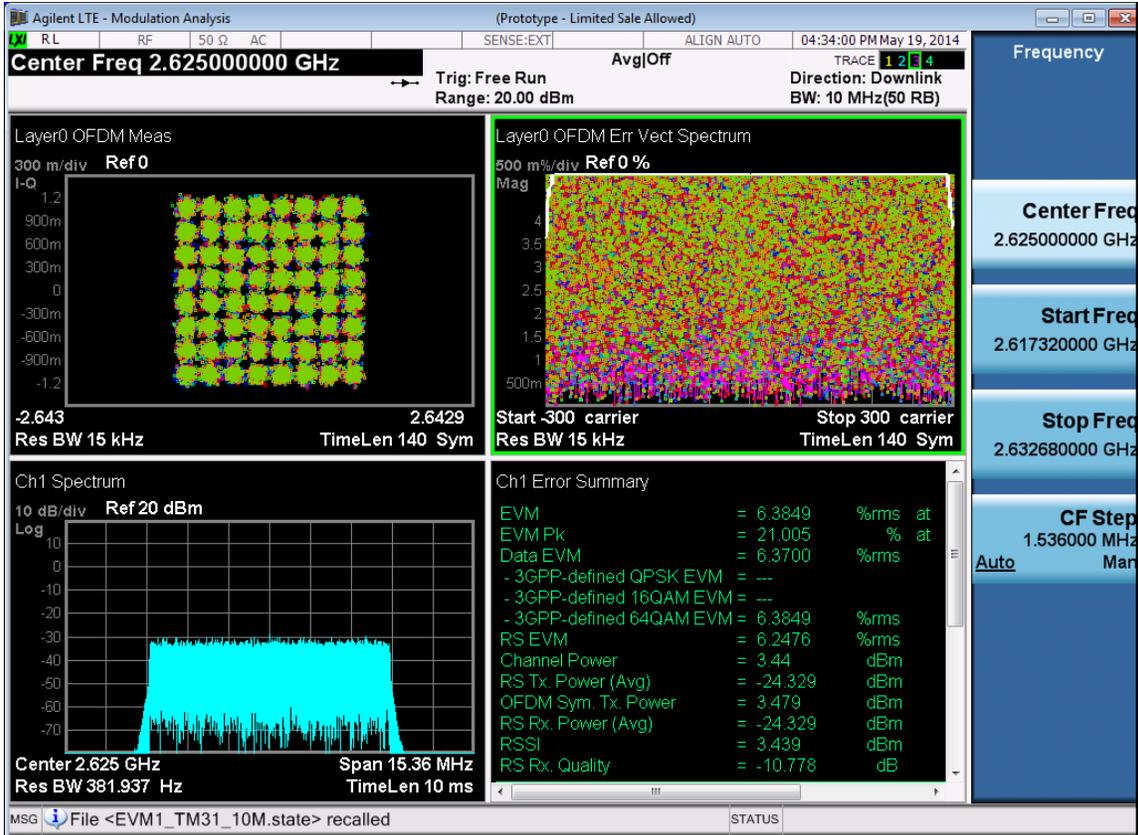
Port	Frequency (MHz)	Test mode	EVM
1	2625	TM2.0	2.467
		TM3.1	6.385
		TM3.2	7.699
		TM3.3	10.314
	2655	TM2.0	1.664
		TM3.1	6.307
		TM3.2	7.674
		TM3.3	10.304
	2685	TM2.0	1.640
TM3.1		6.294	
TM3.2		7.672	
TM3.3		10.318	
2	2625	TM2.0	1.799
		TM3.1	6.324
		TM3.2	7.688
		TM3.3	10.310
	2655	TM2.0	1.690
		TM3.1	6.370
		TM3.2	7.689
		TM3.3	10.316
	2685	TM2.0	1.852
TM3.1		6.346	

		TM3.2	7.692
		TM3.3	10.308

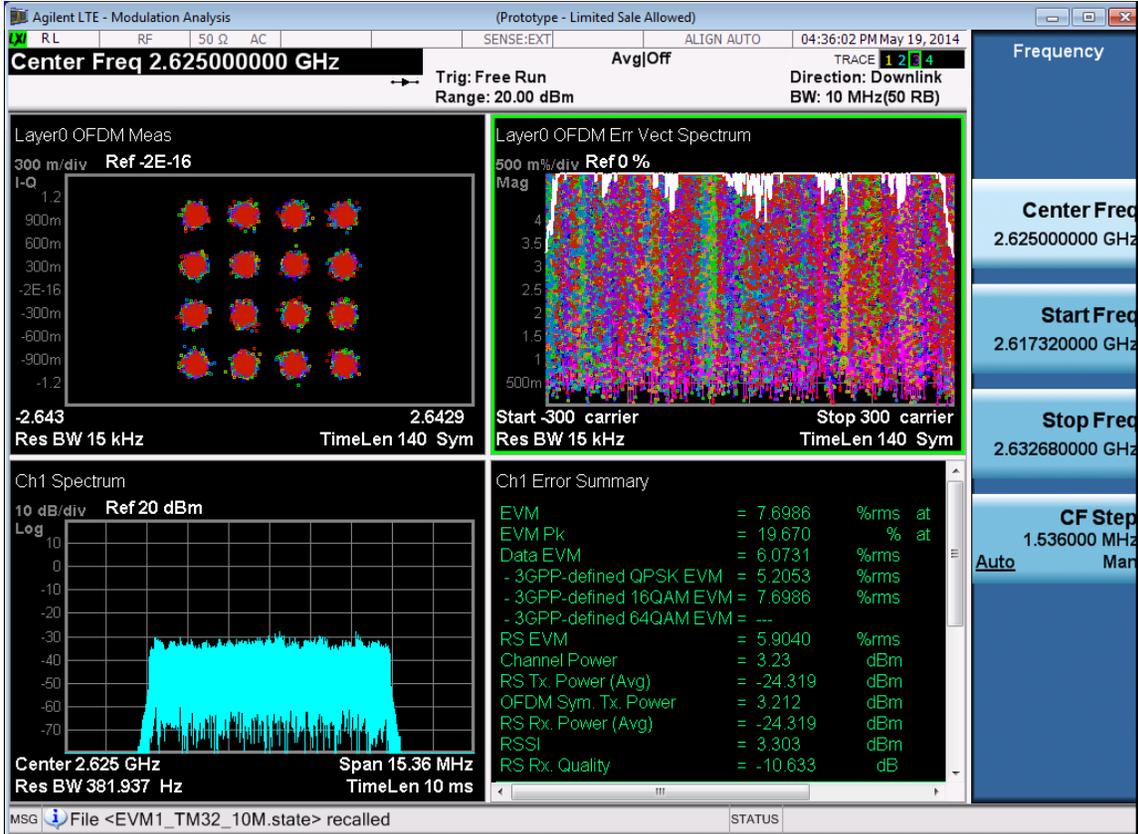
10M -Port 1 -2625MHz-TM2.0



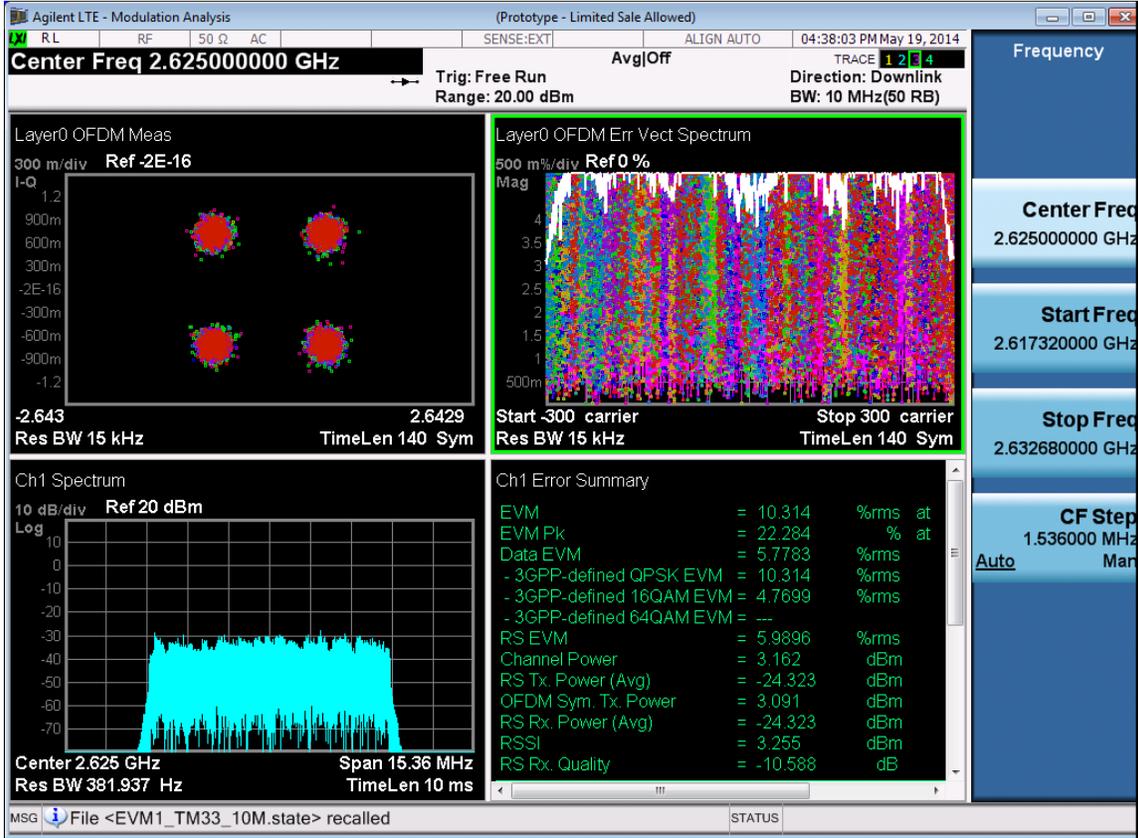
10M -Port 1 -2625MHz -TM3.1



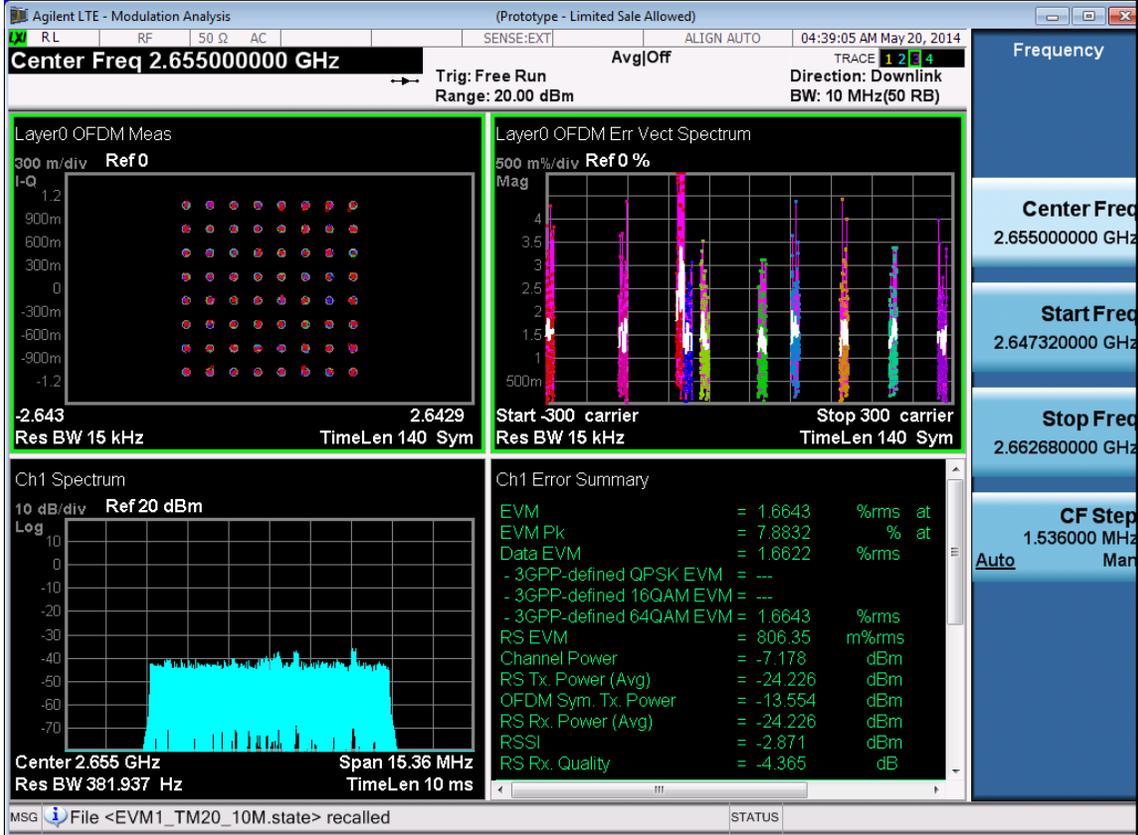
10M -Port 1 -2625MHz -TM3.2



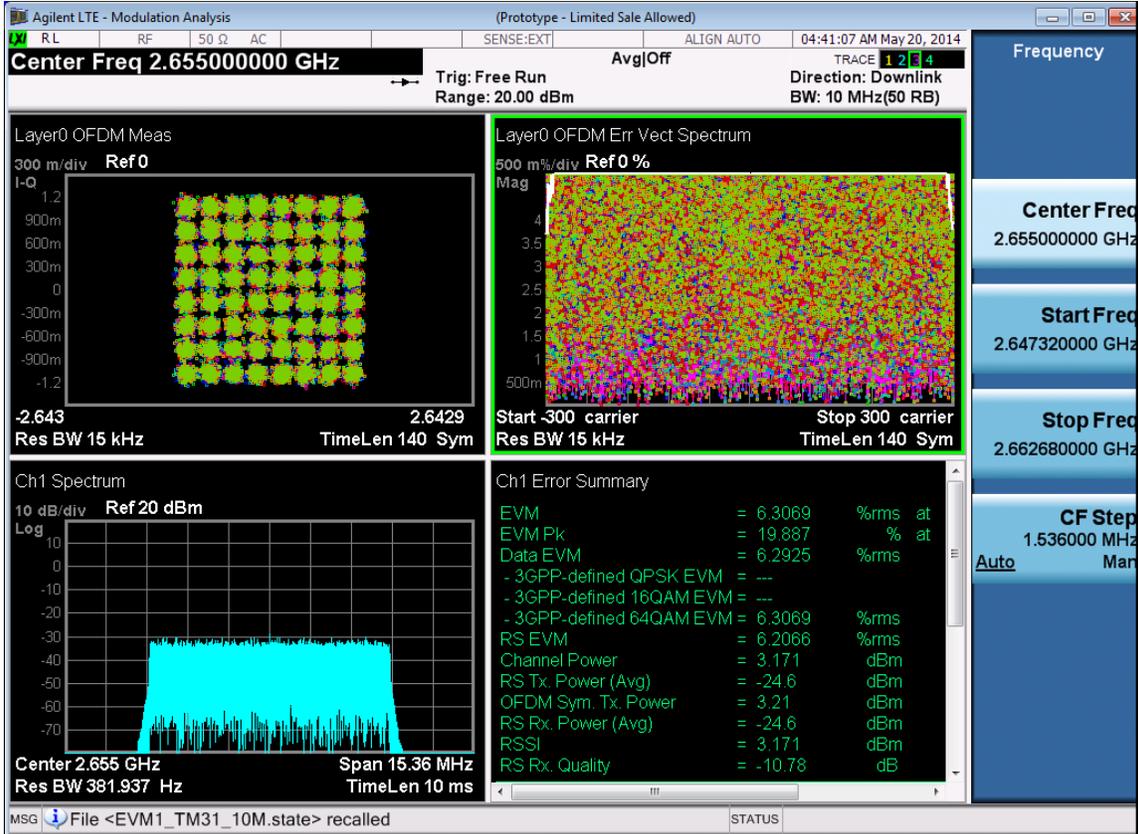
## 10M -Port 1 -2625MHz -TM3.3



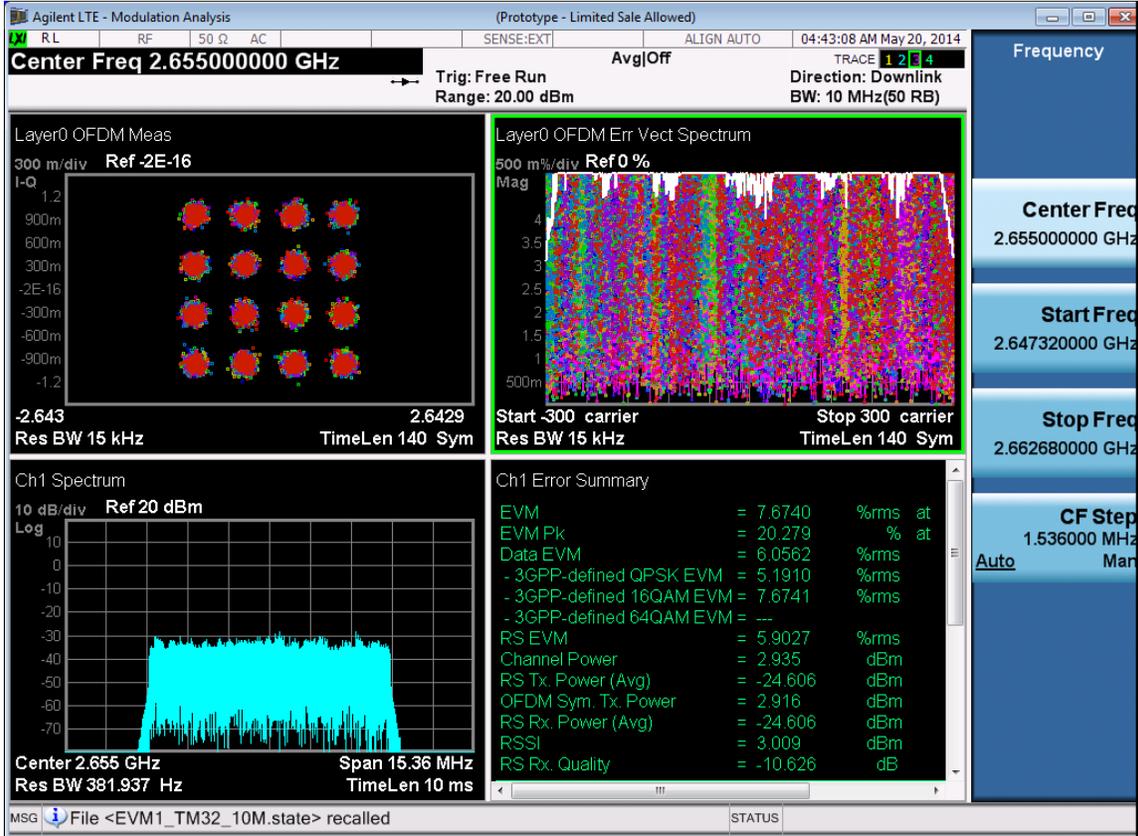
## 10M -Port 1 -2655MHz-TM2.0



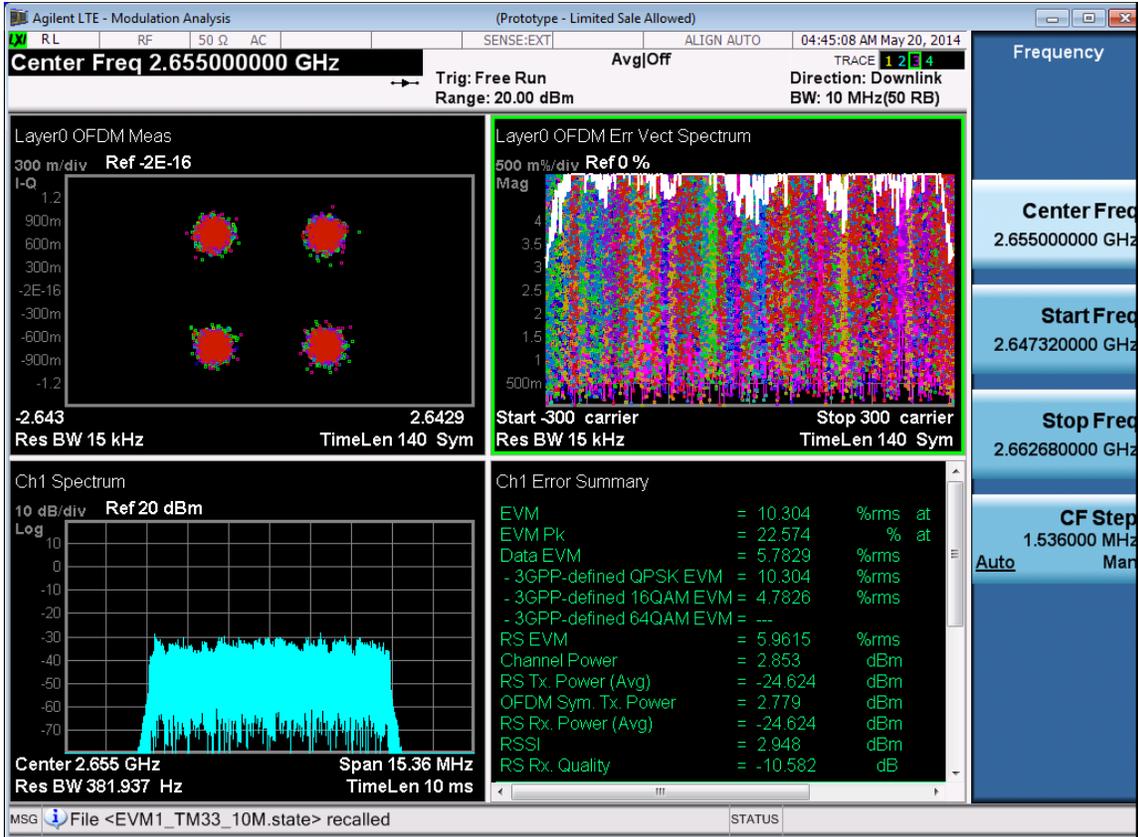
10M -Port 1 -2655MHz -TM3.1



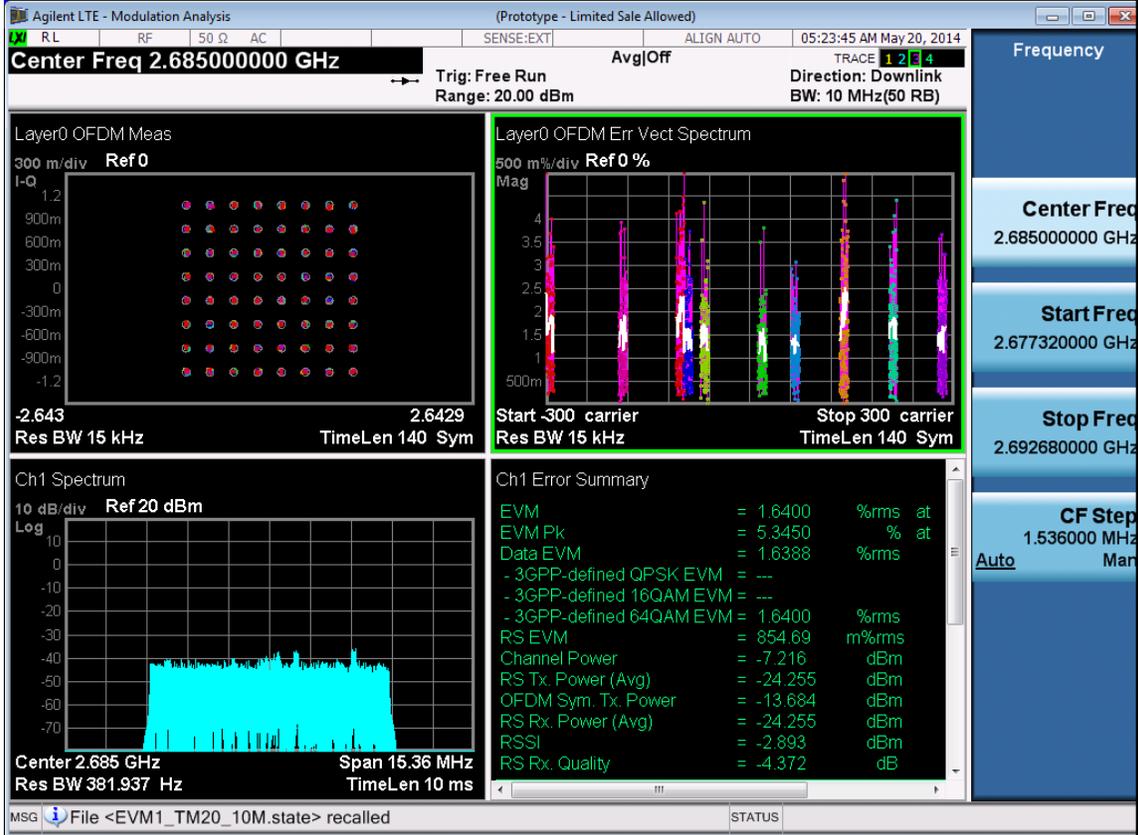
## 10M -Port 1 -2655MHz -TM3.2



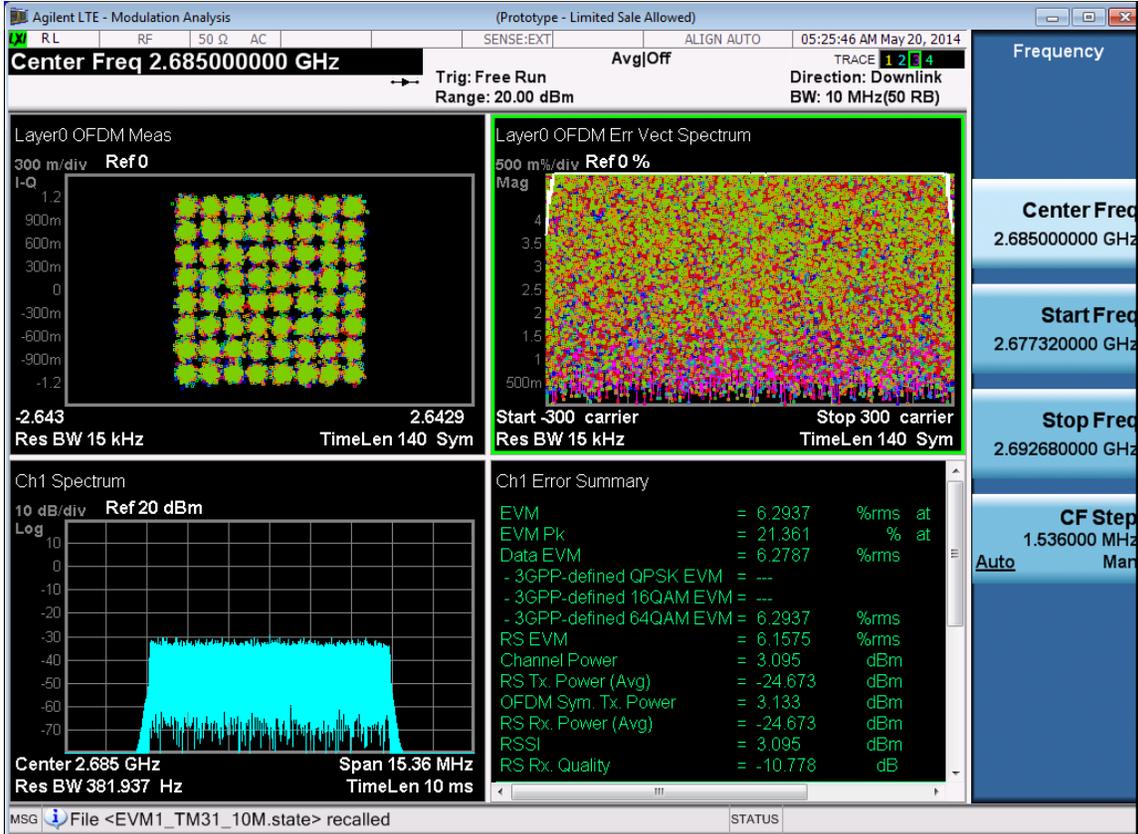
## 10M -Port 1 -2655MHz -TM3.3



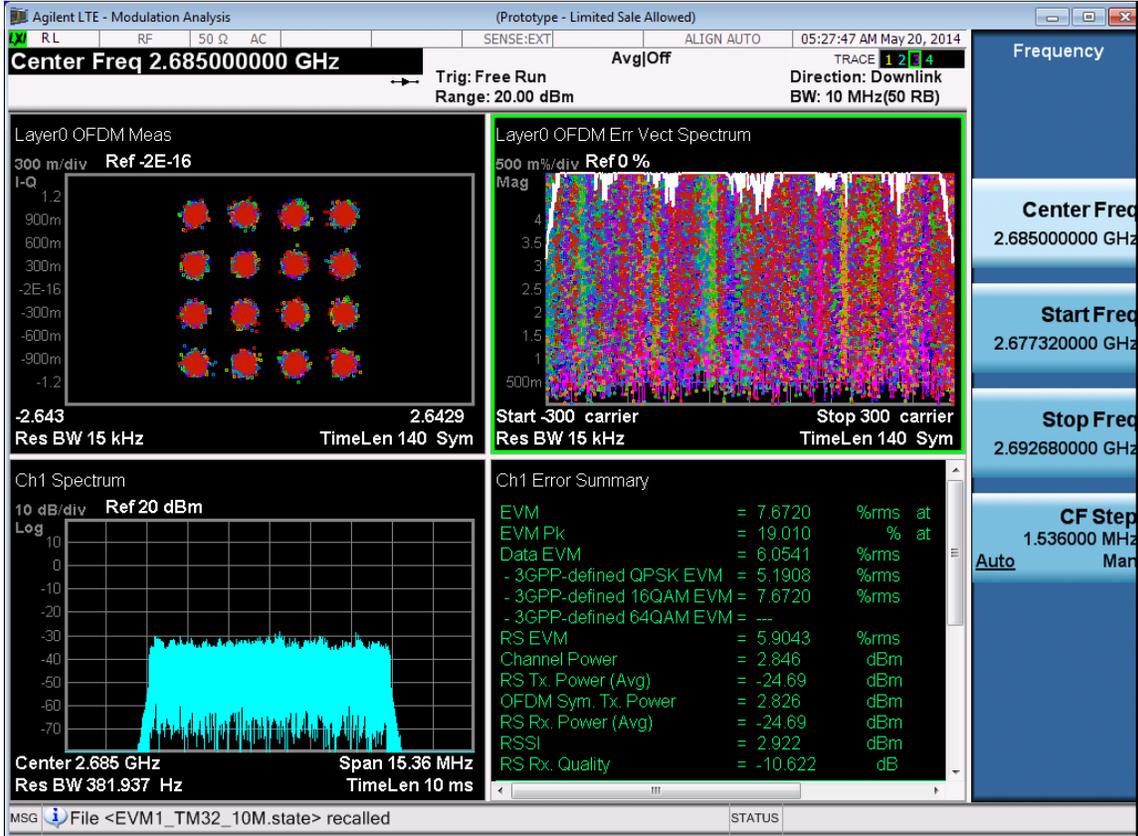
10M -Port 1 -2685MHz-TM2.0



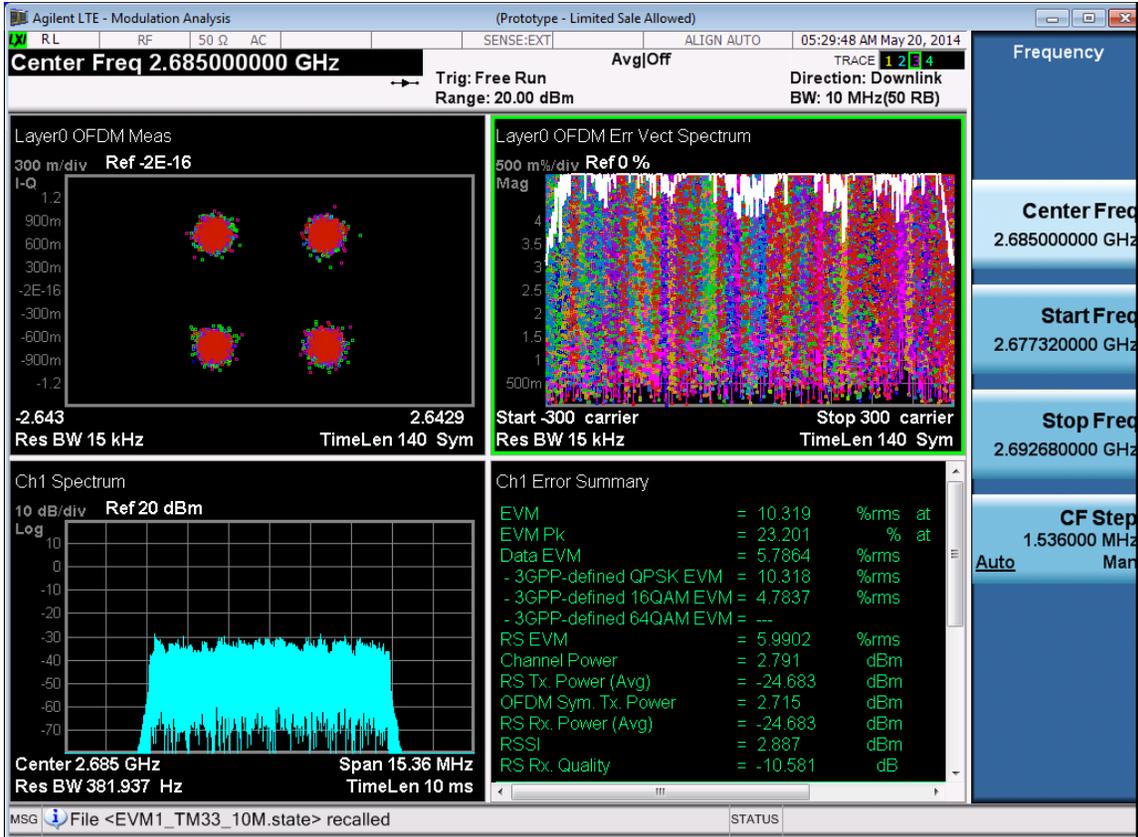
10M -Port 1 -2685MHz -TM3.1



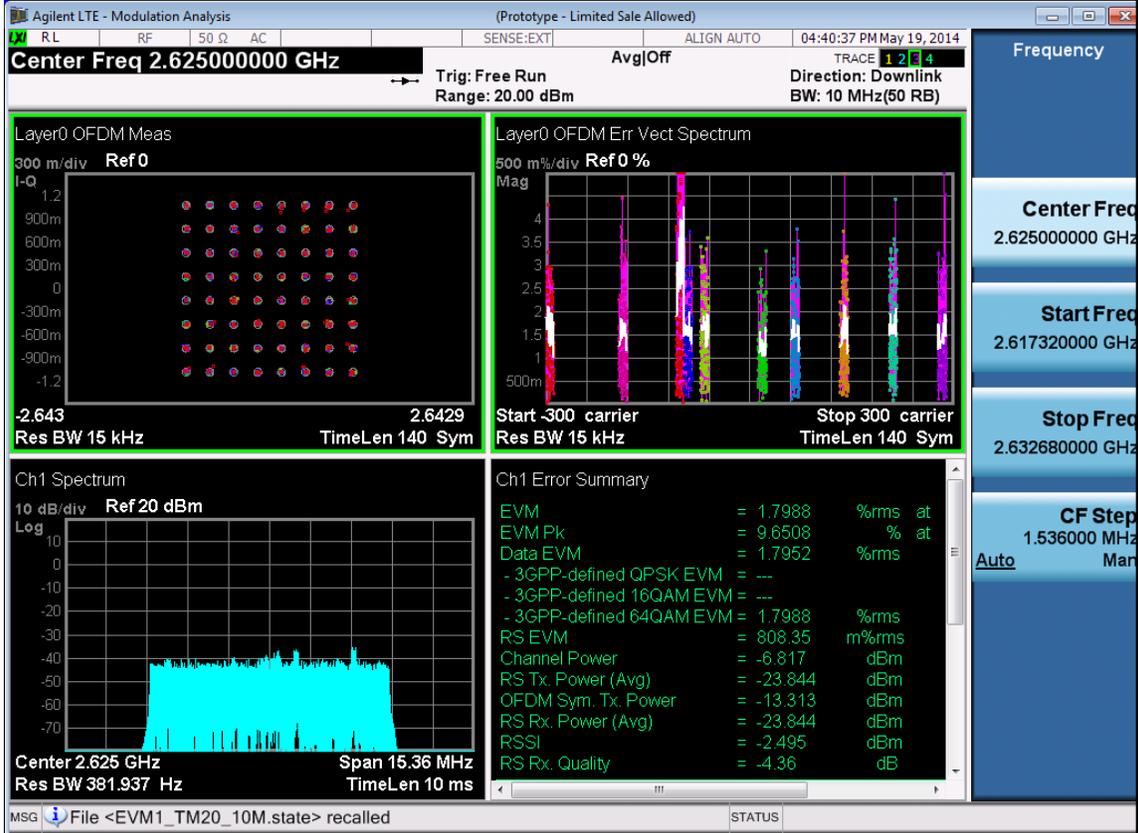
10M -Port 1 -2685MHz -TM3.2



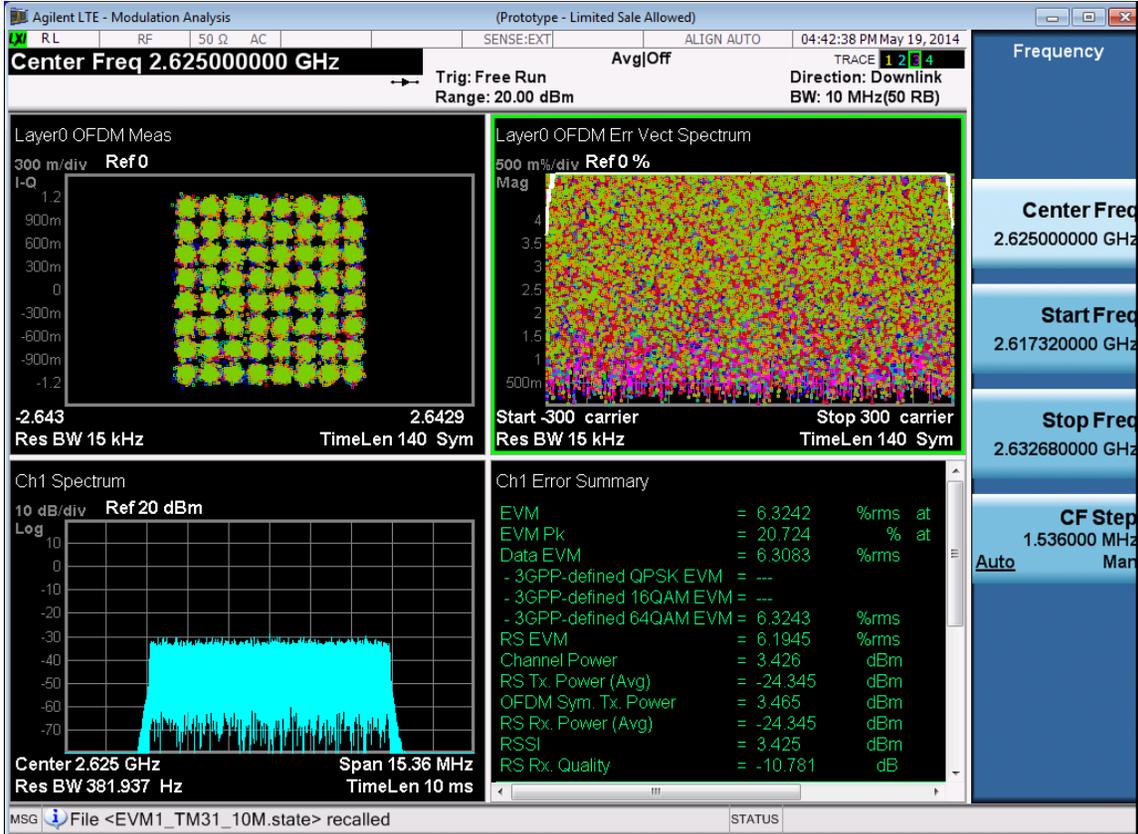
10M -Port 1 -2685MHz -TM3.3



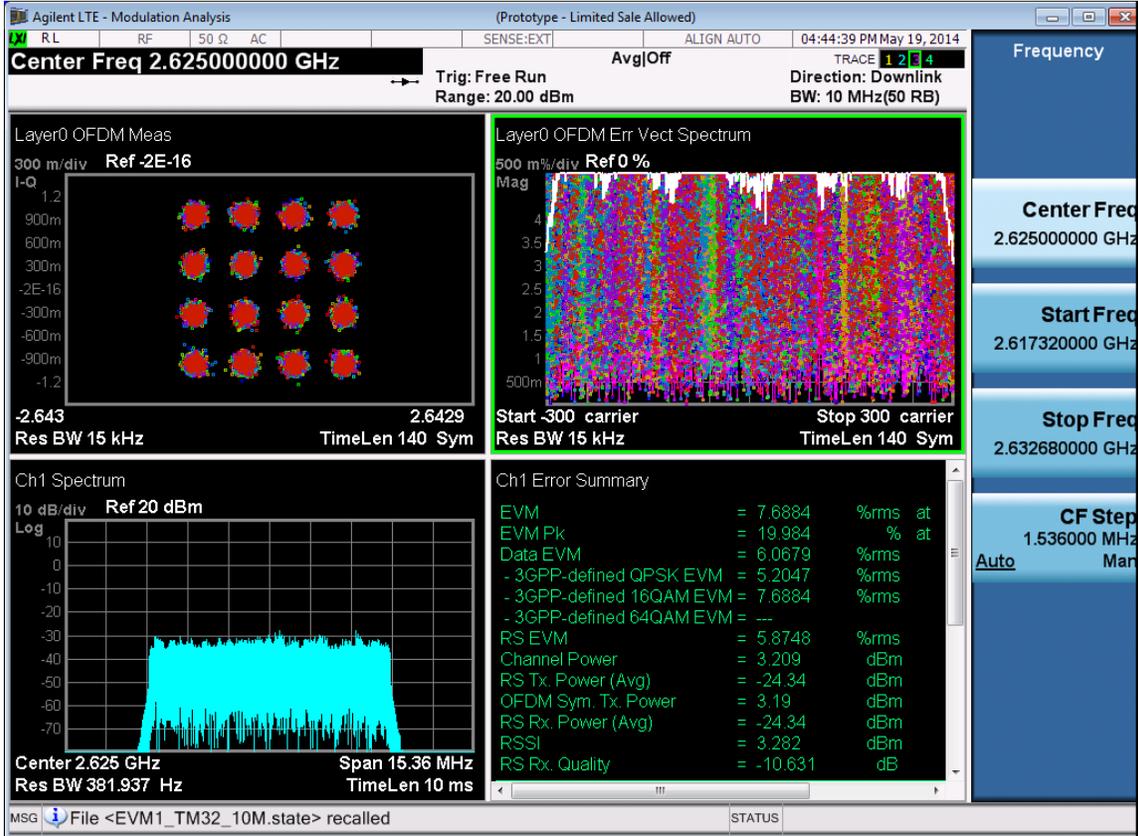
10M -Port 2-2625MHz -TM2.0



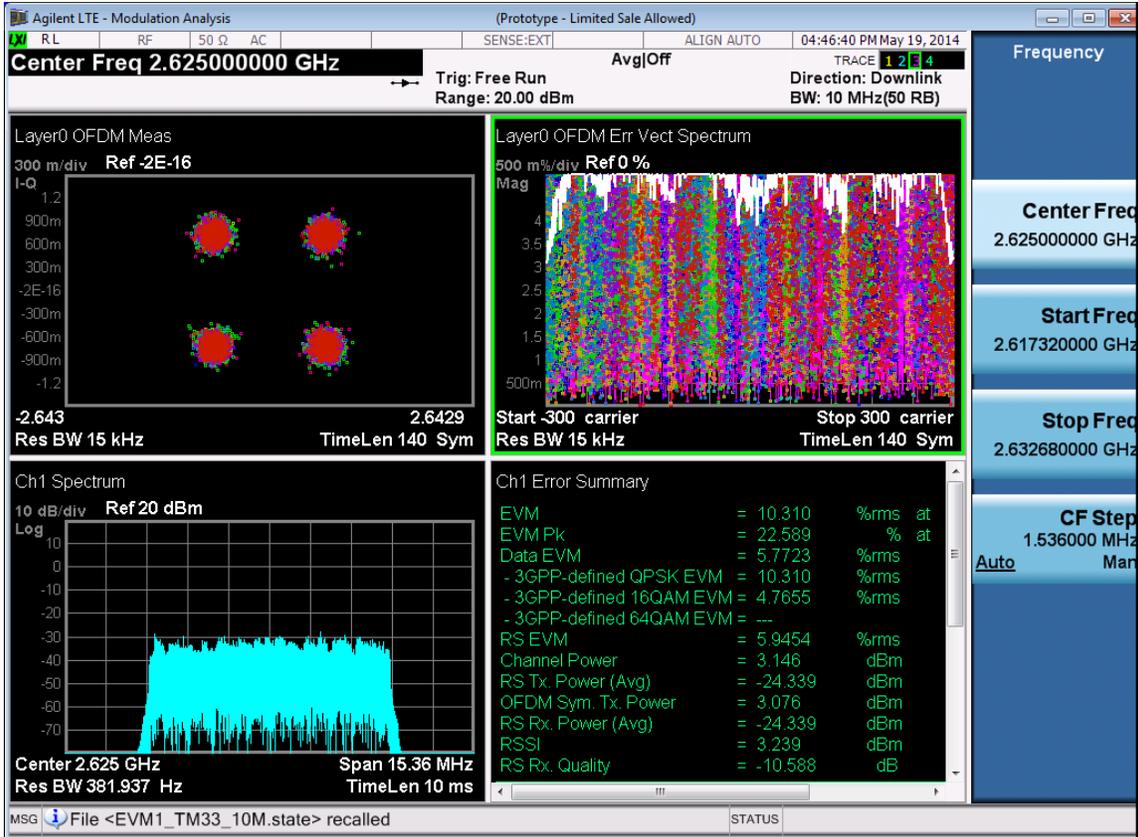
10M -Port 2 -2625MHz -TM3.1



## 10M -Port 2 -2625MHz -TM3.2



## 10M -Port 2 -2625MHz -TM3.3



10M -Port 2 -2655MHz -TM2.0