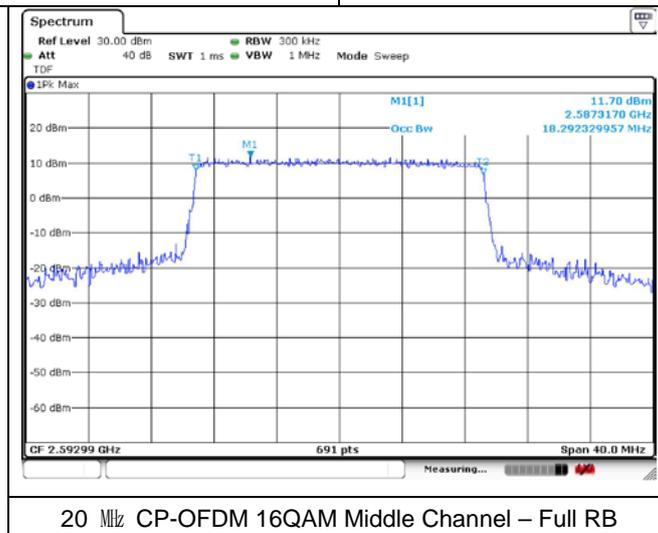
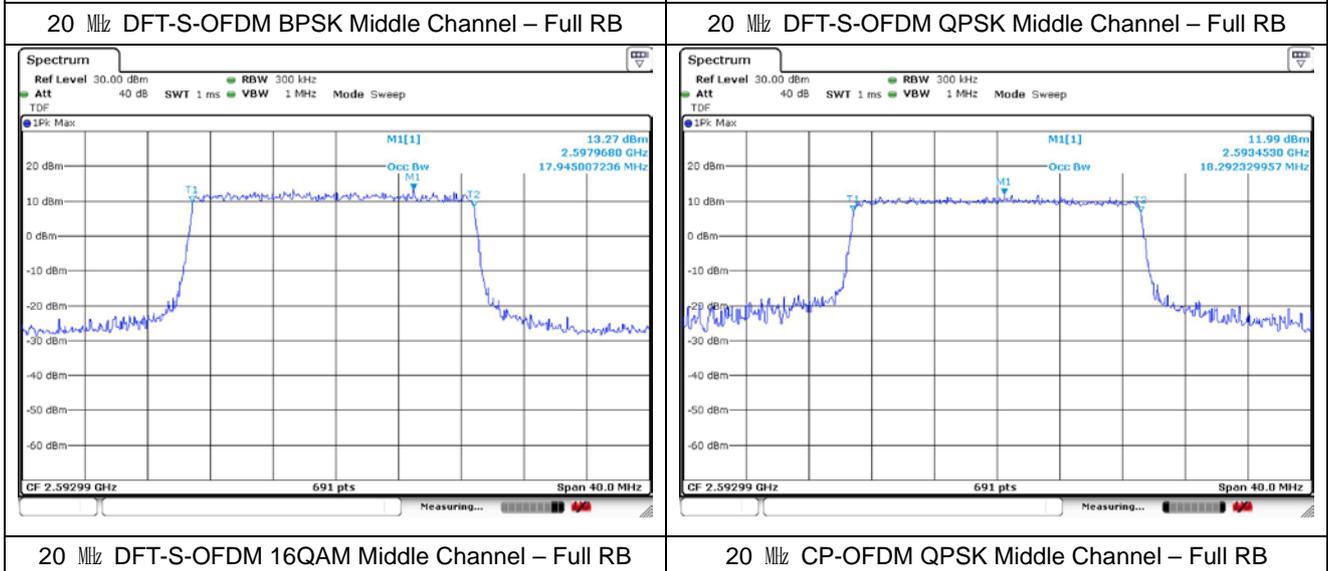
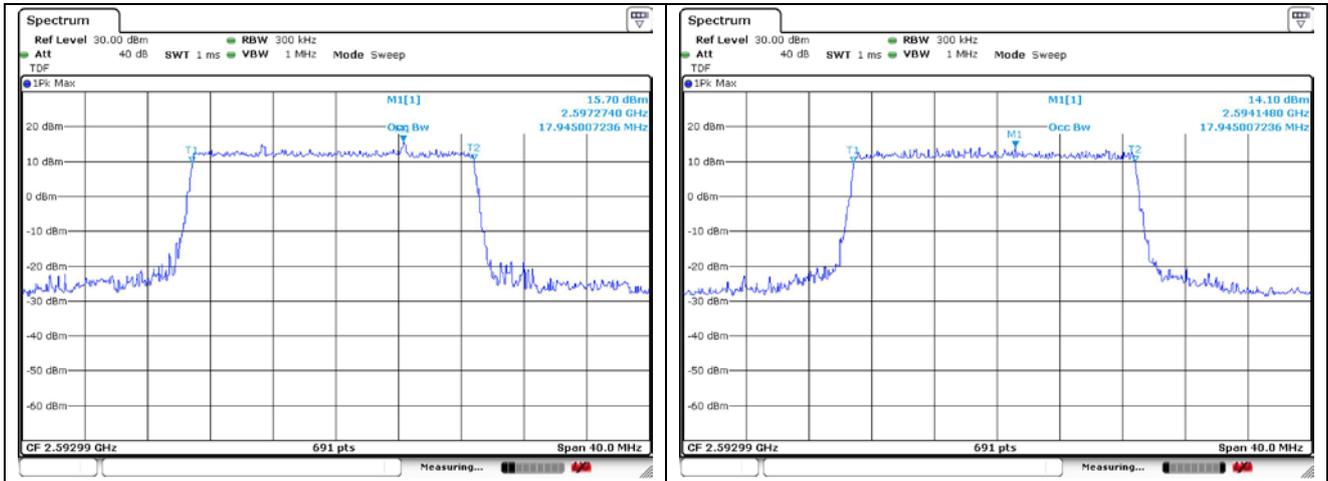
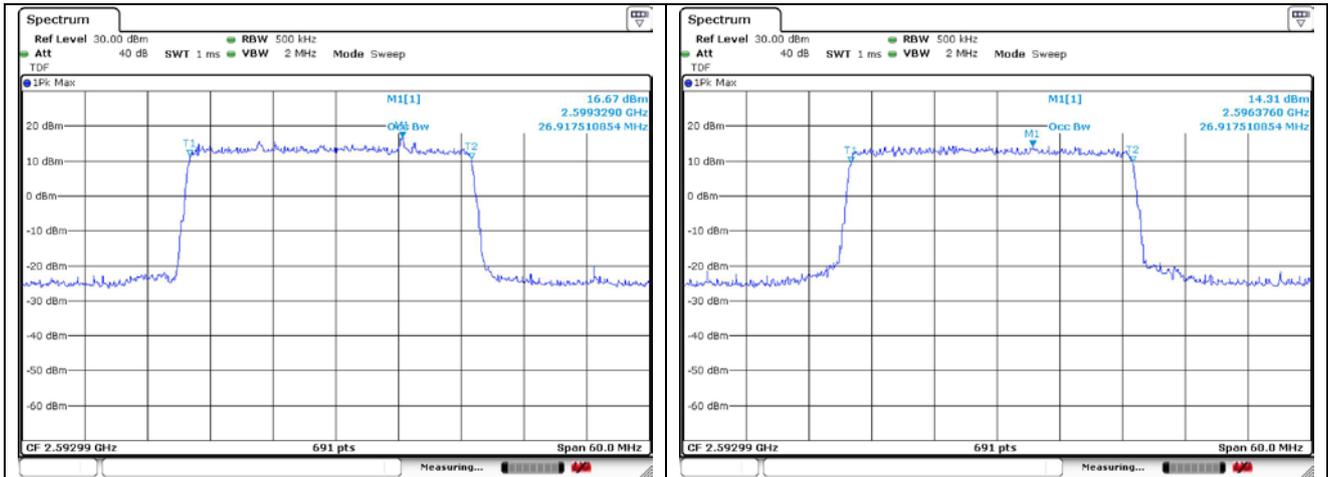


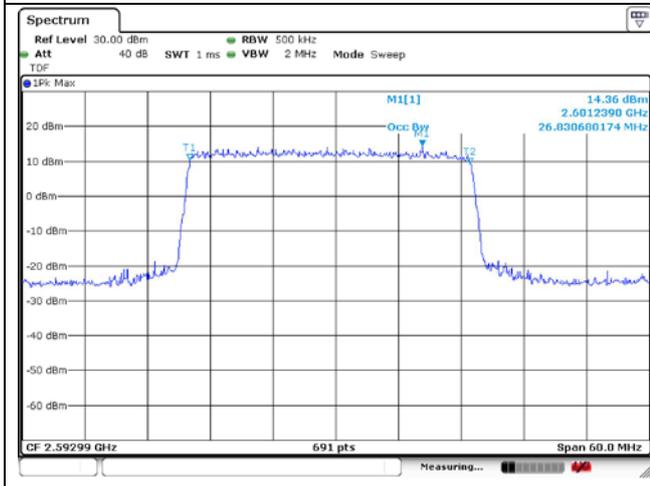
**SIM 2**



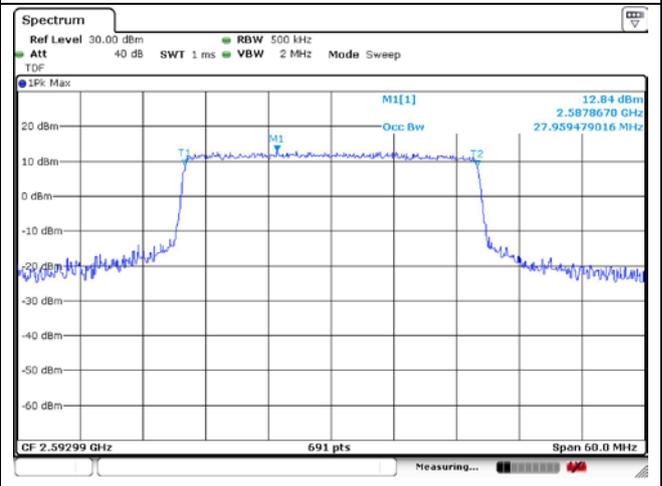


30 MHz DFT-S-OFDM BPSK Middle Channel – Full RB

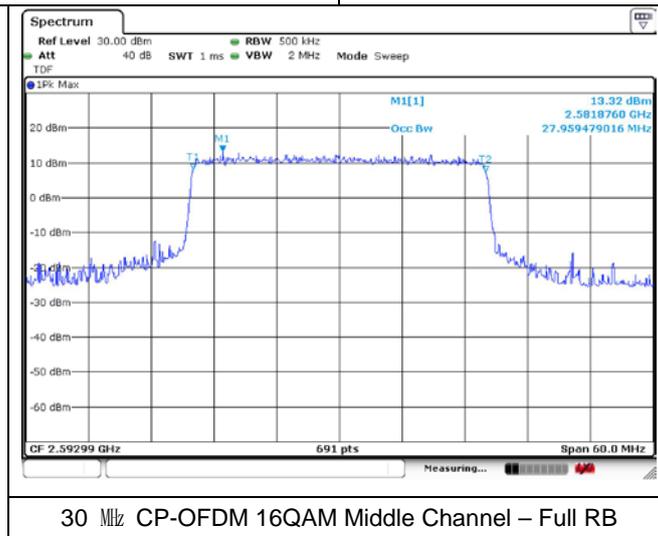
30 MHz DFT-S-OFDM QPSK Middle Channel – Full RB



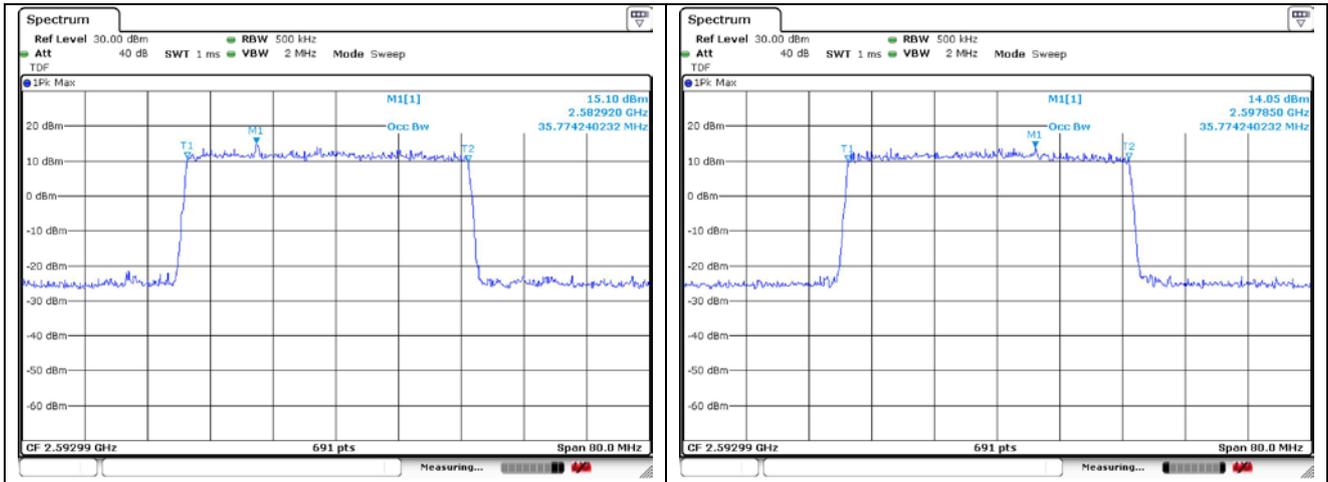
30 MHz DFT-S-OFDM 16QAM Middle Channel – Full RB



30 MHz CP-OFDM QPSK Middle Channel – Full RB

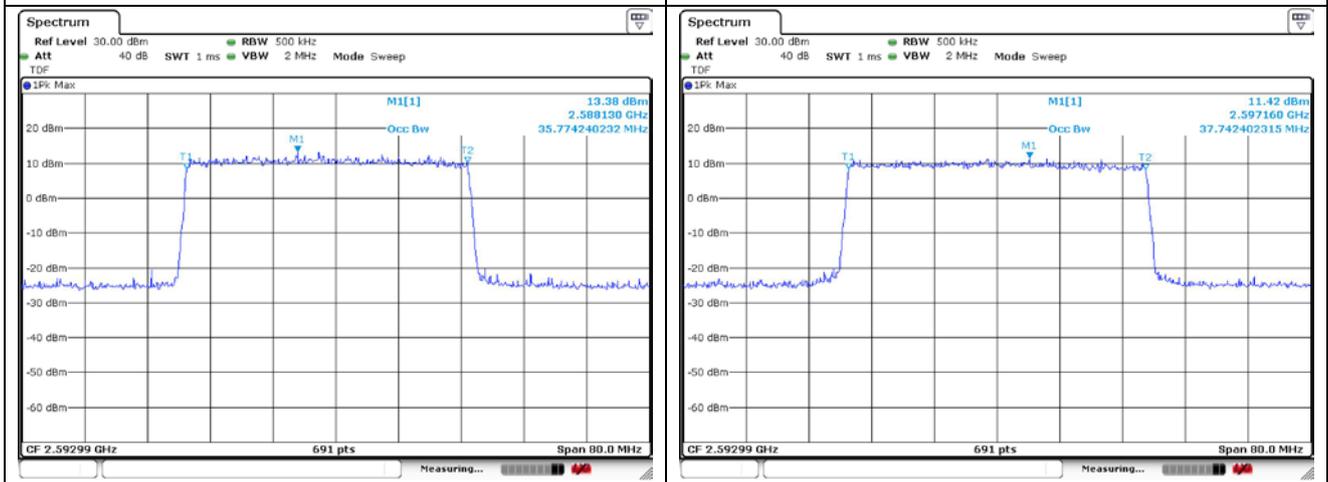


30 MHz CP-OFDM 16QAM Middle Channel – Full RB



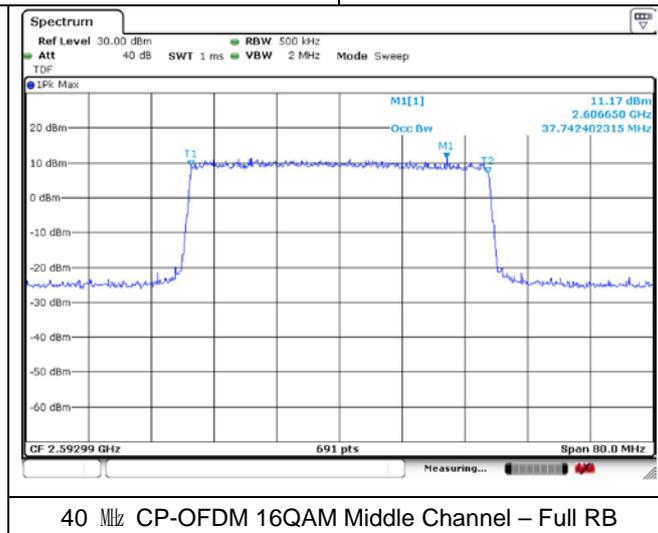
40 MHz DFT-S-OFDM BPSK Middle Channel – Full RB

40 MHz DFT-S-OFDM QPSK Middle Channel – Full RB

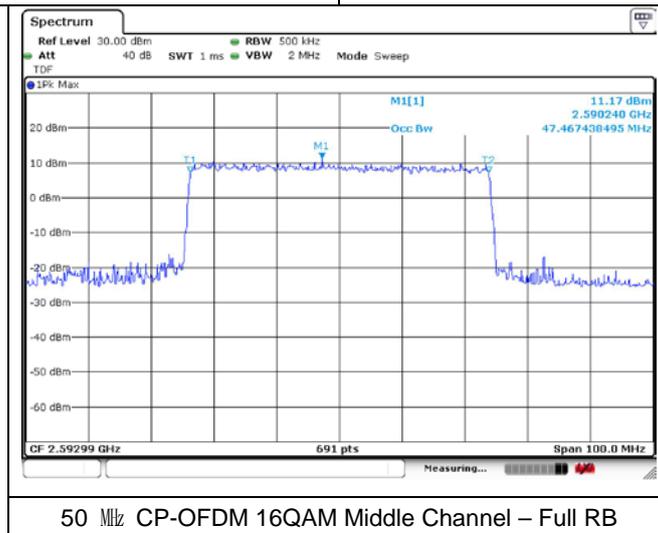
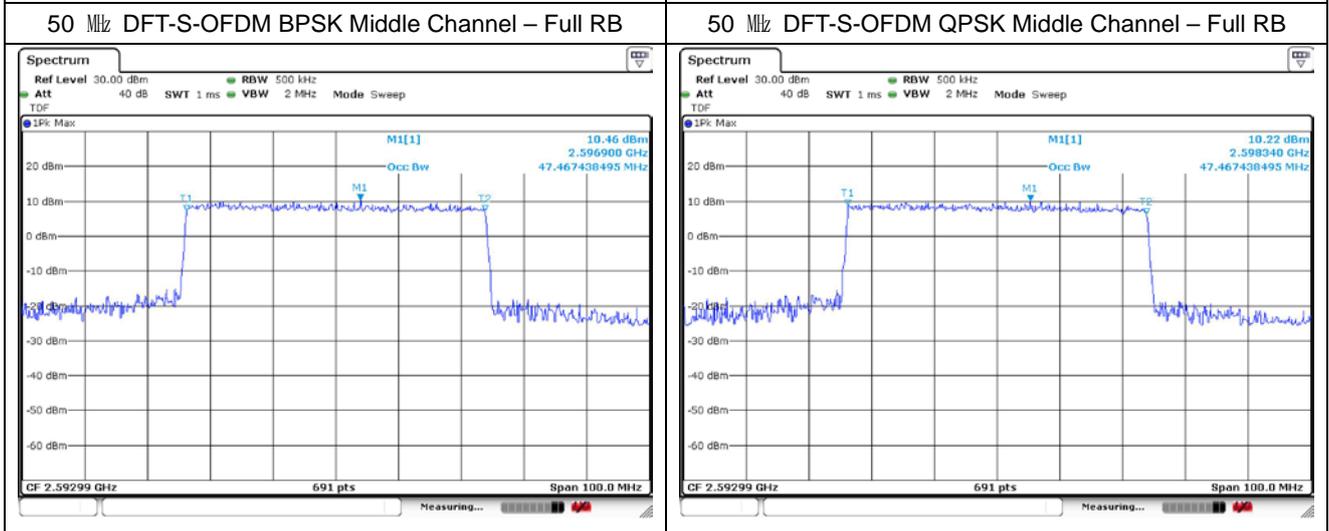
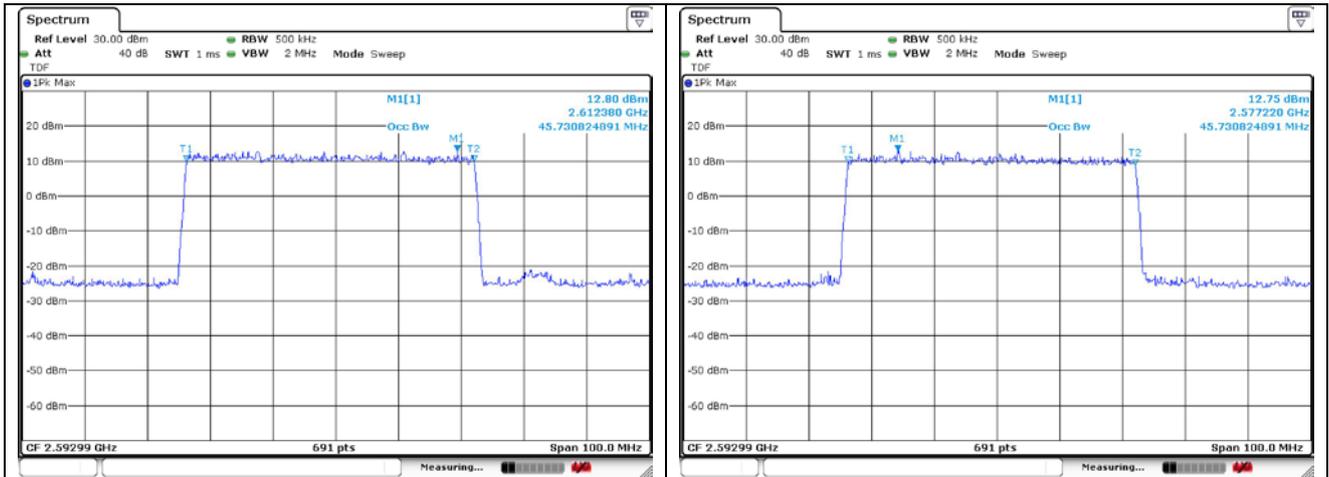


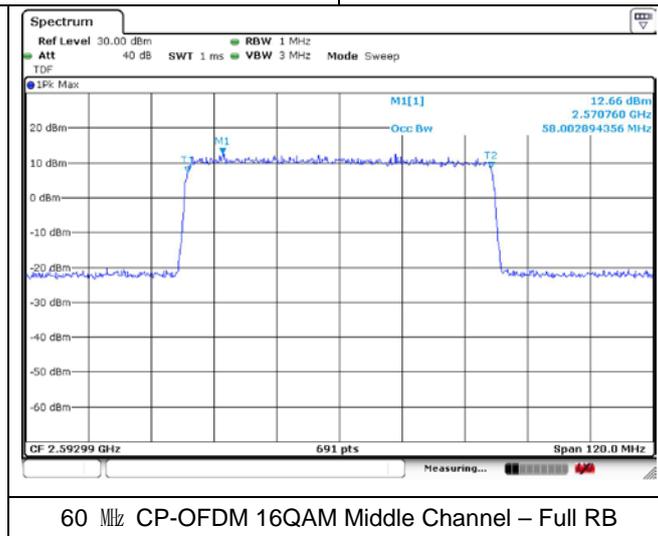
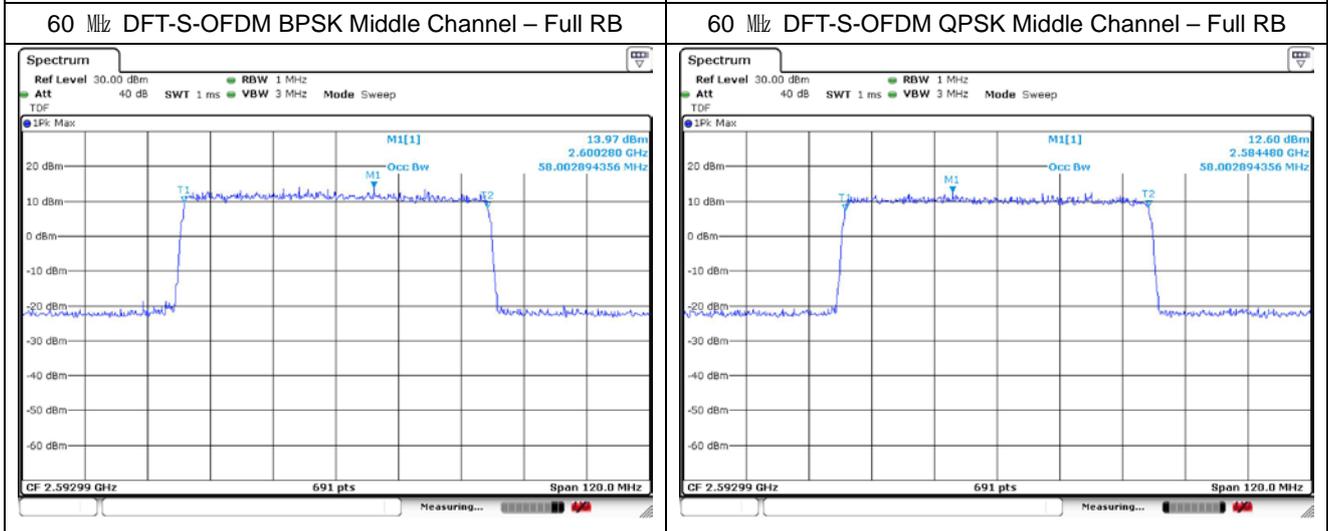
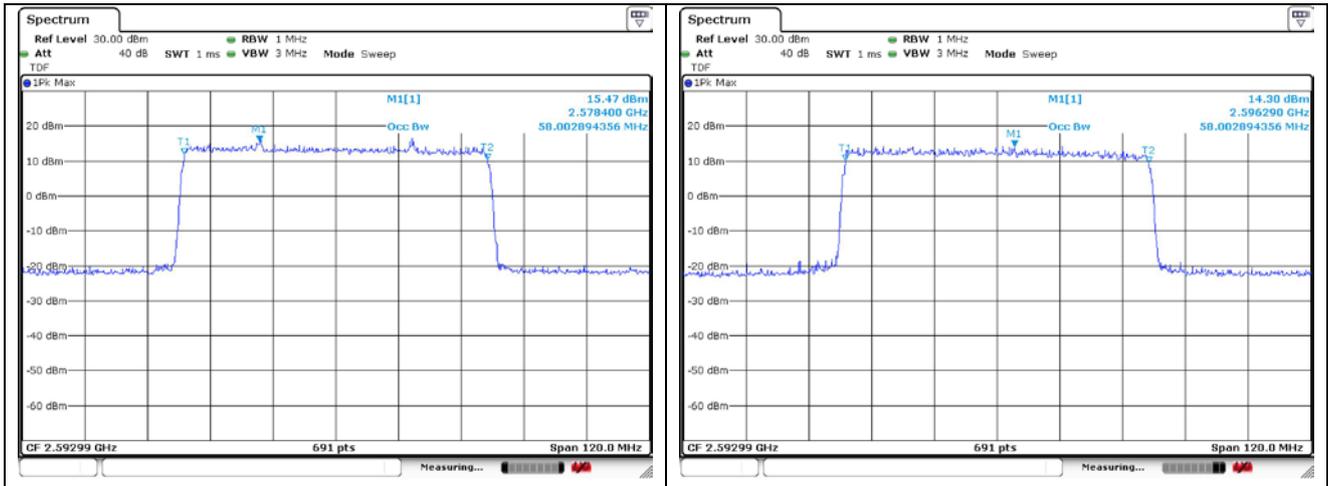
40 MHz DFT-S-OFDM 16QAM Middle Channel – Full RB

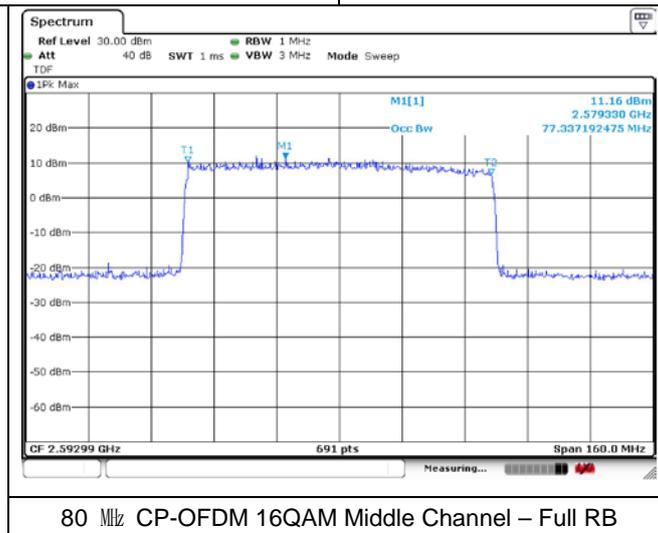
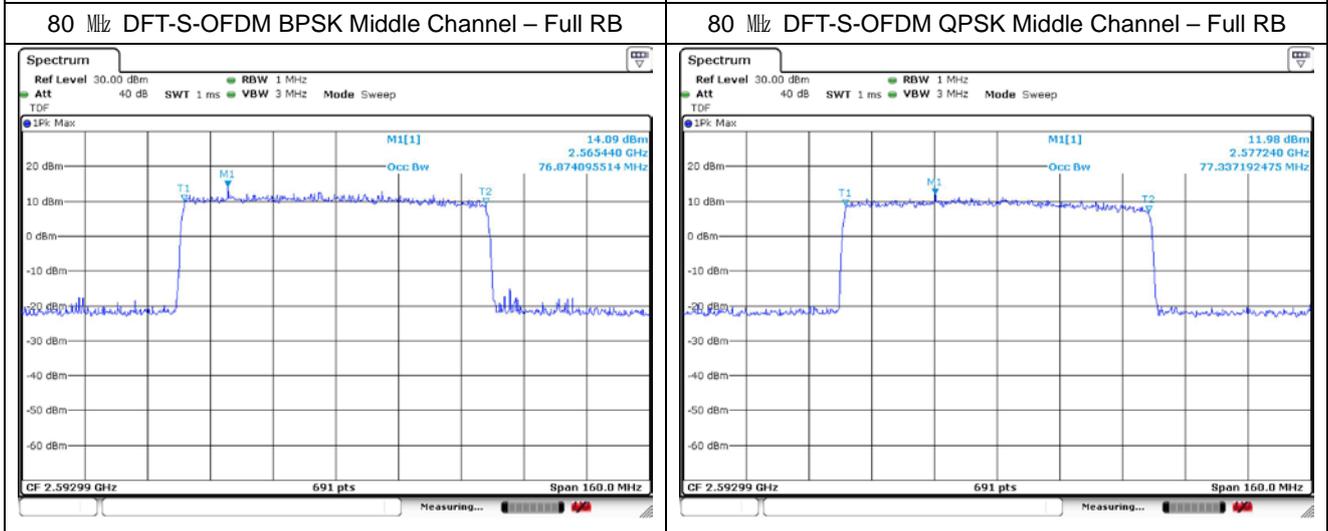
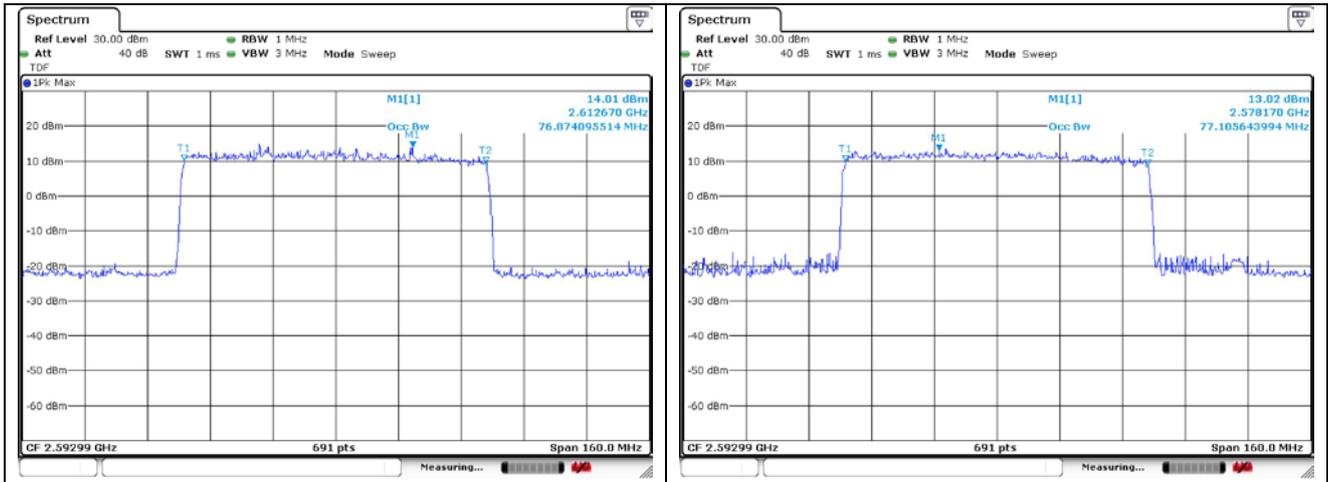
40 MHz CP-OFDM QPSK Middle Channel – Full RB

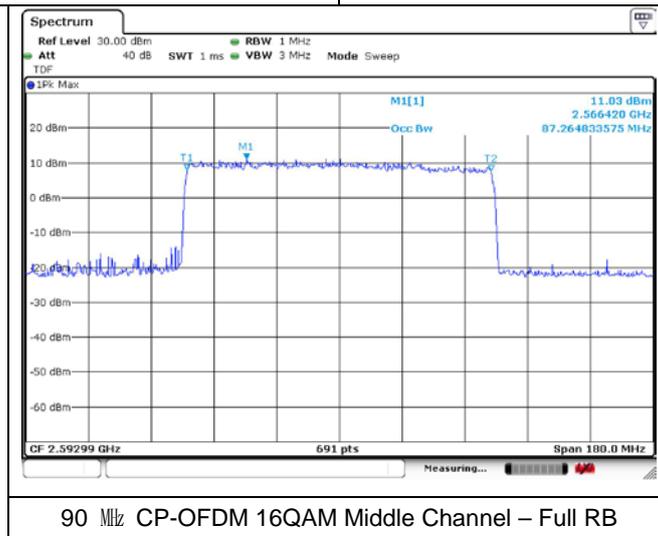
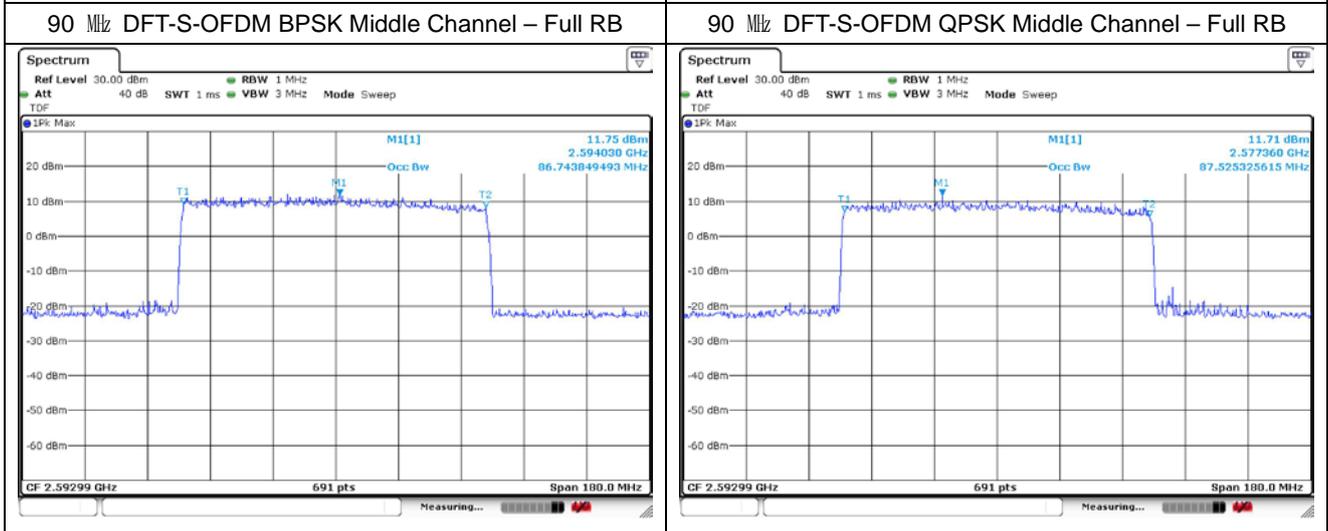
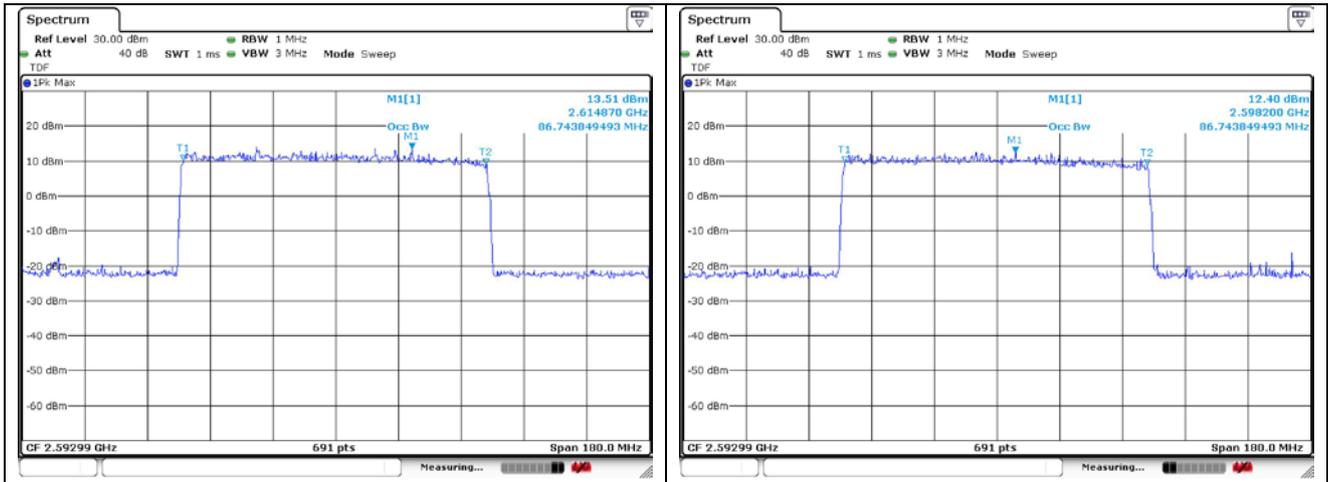


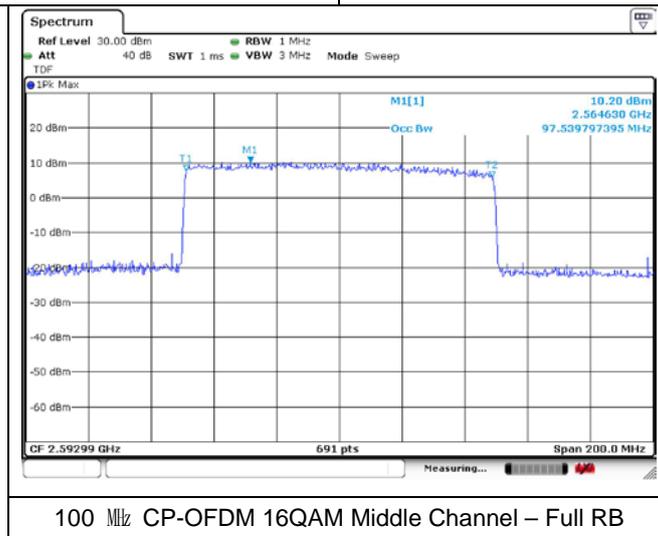
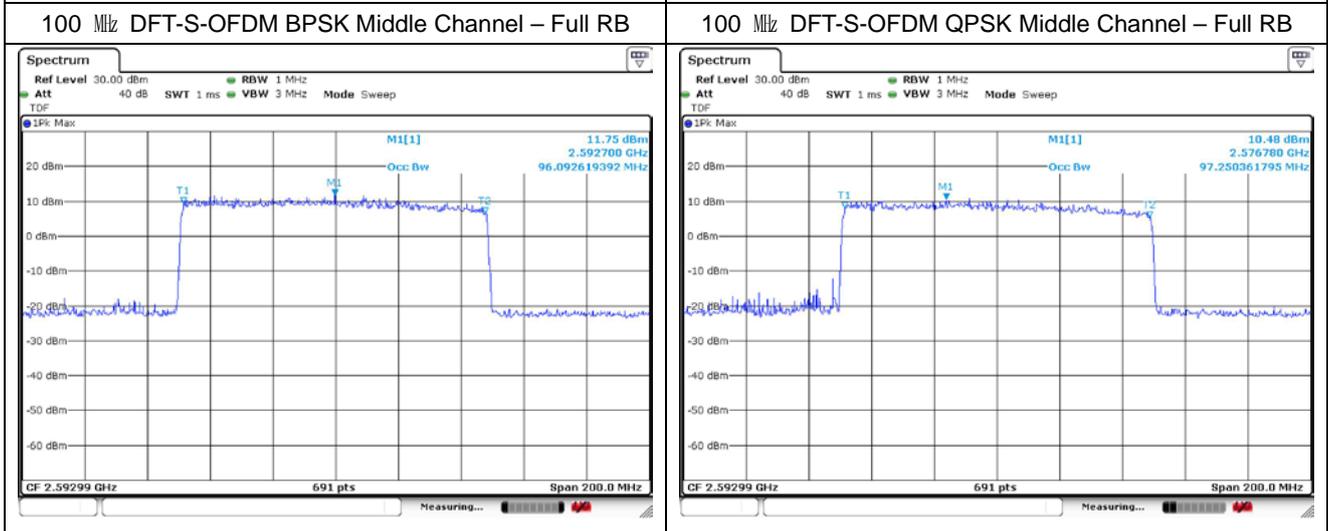
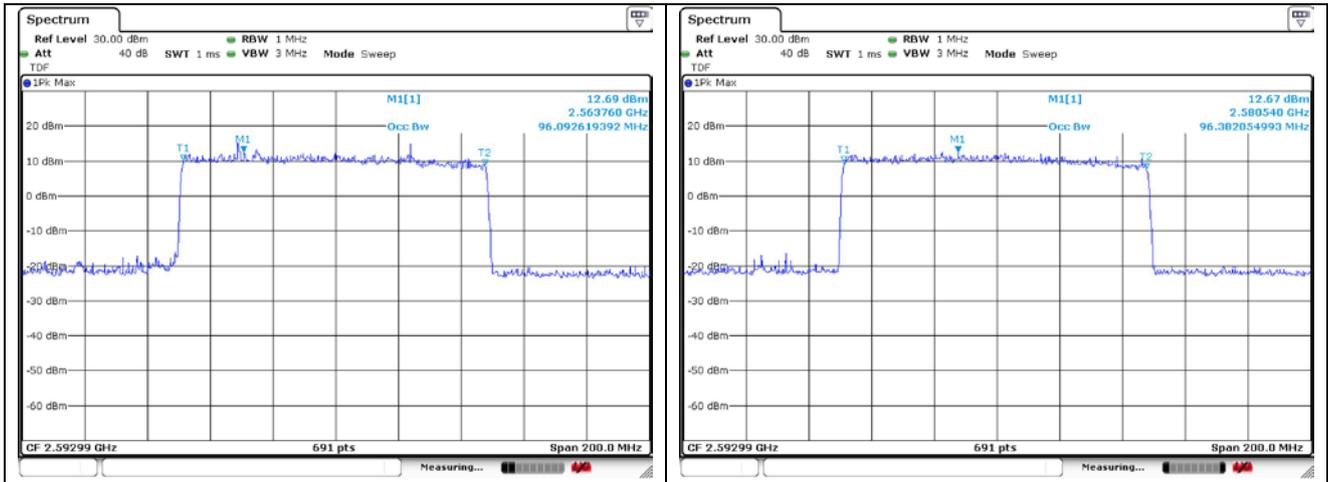
40 MHz CP-OFDM 16QAM Middle Channel – Full RB











## 5. Peak-Average Ratio

### 5.1. Limit

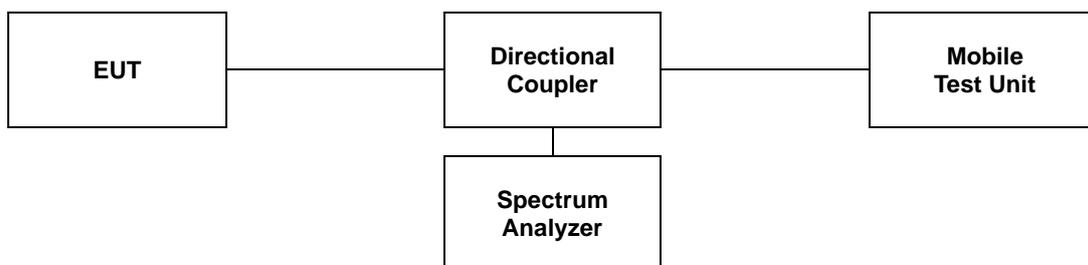
- §27.50(d)(5), power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (d)(6) of this section. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

### 5.2. Test Procedure

The test follows section 5.2.3.4 of ANSI C63.26-2015.

See instrumentation-specific application literature for further guidance regarding use of the CCDF capability. The following guidelines are offered for performing a CCDF measurement.

- a. Set resolution/measurement bandwidth  $\geq$  OBW or specified reference bandwidth.
- b. Set the number of counts to a value that stabilizes the measured CCDF curve.
- c. Set the measurement interval as follows:
  - 1) For continuous transmissions, set to greater of  $[10 \times (\text{number of points in sweep}) \times (\text{transmission symbol period})]$  or 1 ms.
  - 2) For burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize. Set the measurement interval to a time that is less than or equal to the burst duration.
  - 3) If there are several carriers in a single antenna port, the peak power shall be determined for each individual carrier (by disabling the other carriers while measuring the required carrier) and the total peak power calculated from the sum of the individual carrier peak powers.
- d. Record the maximum PAPR level associated with a probability of 0.1 %.
- e. The peak power level is calculated from the sum of the PAPR value from step d) to the measured average power.



### 5.3 Test Results

Ambient temperature : (23 ± 1) °C  
 Relative humidity : 47 % R.H.

#### SIM 1

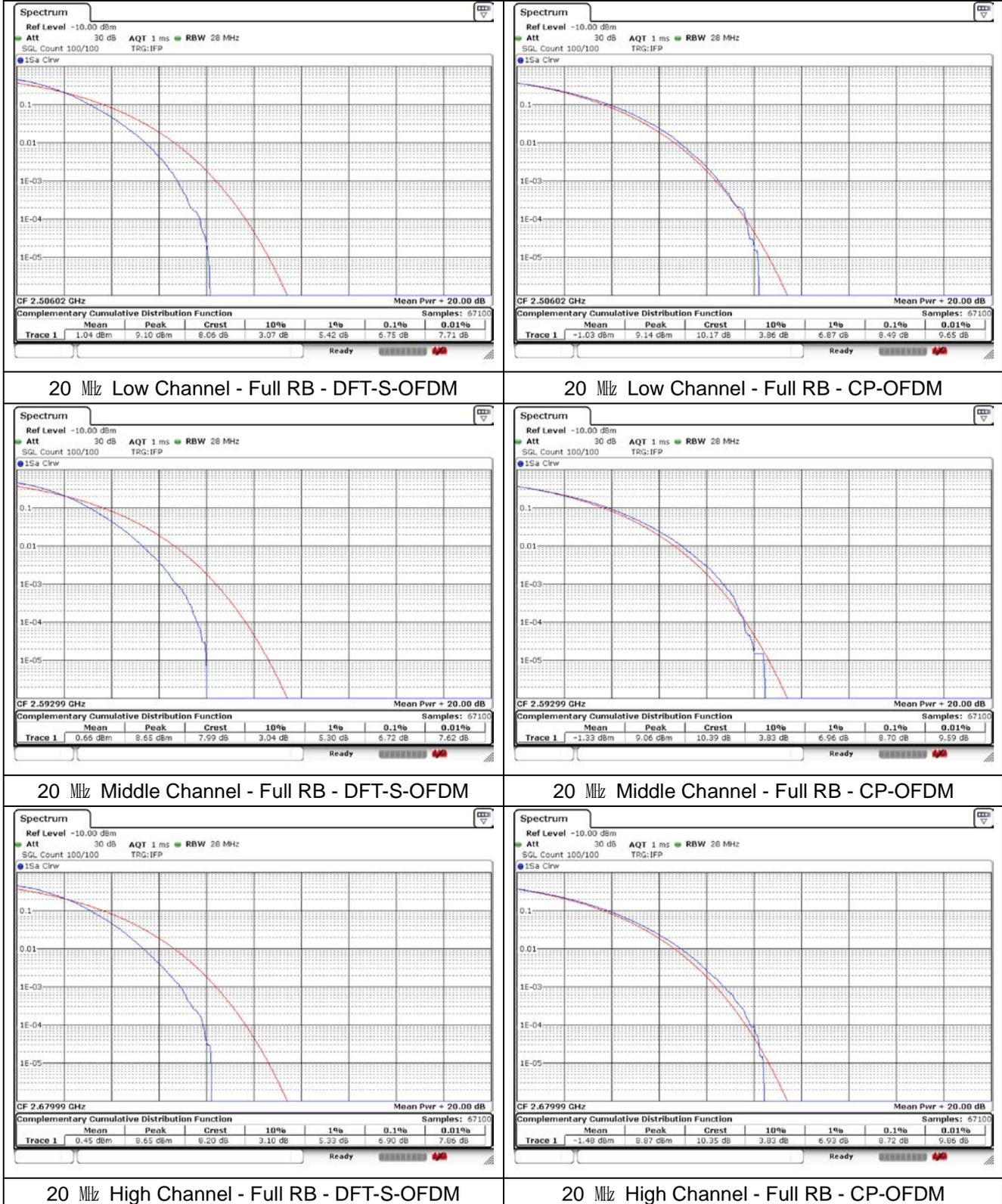
Band	SCS (kHz)	BW (MHz)	Mode	Frequency (MHz)	PAR (dB)	
					DFT-S-OFDM	CP-OFDM
41	30	20	256QAM	2 506.02	6.75	8.49
				2 592.99	6.72	8.70
				2 679.99	6.90	8.72
		30		2 511.00	6.61	8.64
				2 592.99	6.61	8.61
				2 674.98	6.61	8.72
		40		2 516.01	6.55	8.75
				2 592.99	6.58	8.70
				2 670.00	6.52	8.64
		50		2 521.02	6.52	8.49
				2 592.99	6.96	8.67
				2 664.99	6.61	8.84
		60		2 526.00	6.93	8.67
				2 592.99	6.81	8.78
				2 659.98	6.90	8.55
		80		2 536.02	7.16	8.52
				2 592.99	7.28	8.70
				2 649.99	7.33	8.61
		90		2 541.00	7.36	8.70
				2 592.99	7.42	8.61
2 644.98	7.39		8.81			
100	2 546.01	7.45	8.43			
	2 592.99	7.39	8.58			
				2 640.00	7.54	8.58

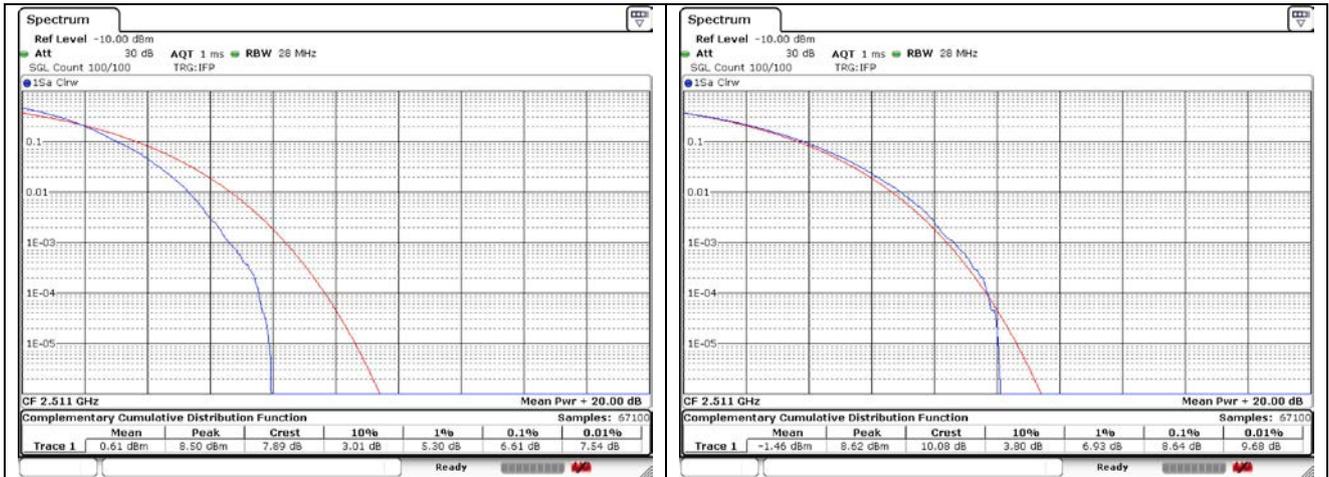
**SIM 2**

Band	SCS (kHz)	BW (MHz)	Mode	Frequency (MHz)	PAR (dB)	
					DFT-S-OFDM	CP-OFDM
41	30	20	256QAM	2 506.02	6.96	8.55
				2 592.99	6.75	8.75
		2 679.99		6.84	8.67	
		30		2 511.00	6.67	8.78
				2 592.99	6.67	8.67
		40		2 674.98	6.70	8.81
				2 516.01	6.52	8.81
		50		2 592.99	6.58	8.75
				2 670.00	6.55	8.64
		60		2 521.02	6.52	8.58
				2 592.99	6.20	8.64
		80		2 664.99	6.55	8.72
				2 526.00	6.81	8.61
		90		2 592.99	6.84	8.72
				2 659.98	6.93	8.84
		100		2 536.02	7.22	8.61
				2 592.99	7.22	8.67
				2 649.99	7.36	8.58
				2 541.00	7.33	8.64
				2 592.99	7.30	8.61
	2 644.98	7.39	8.58			
	2 546.01	7.51	8.49			
	2 592.99	7.45	8.72			
	2 640.00	7.62	8.70			

**- Test plots**

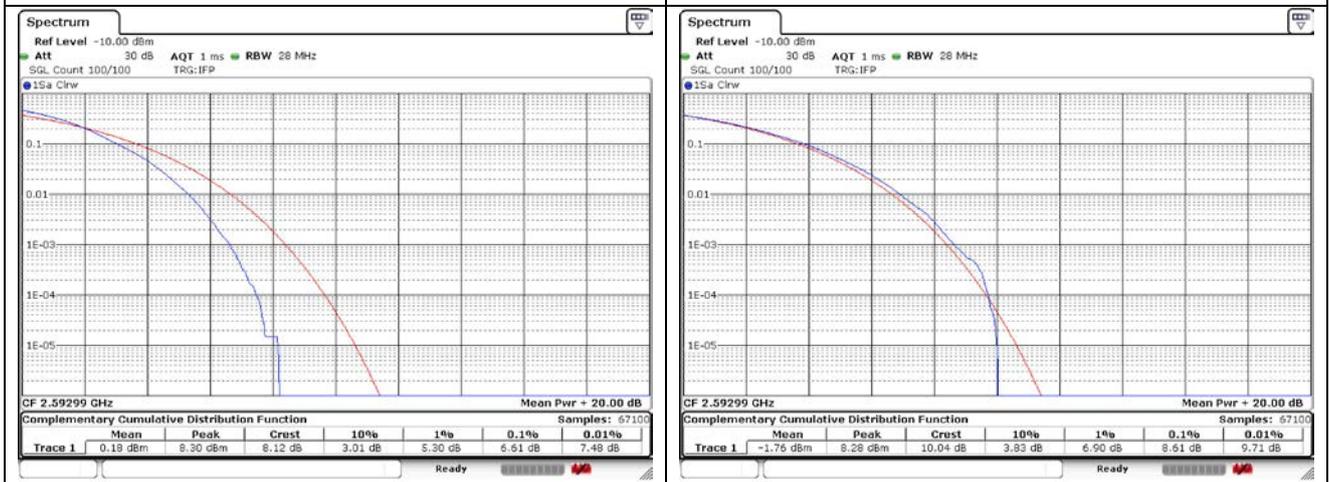
**SIM 1**





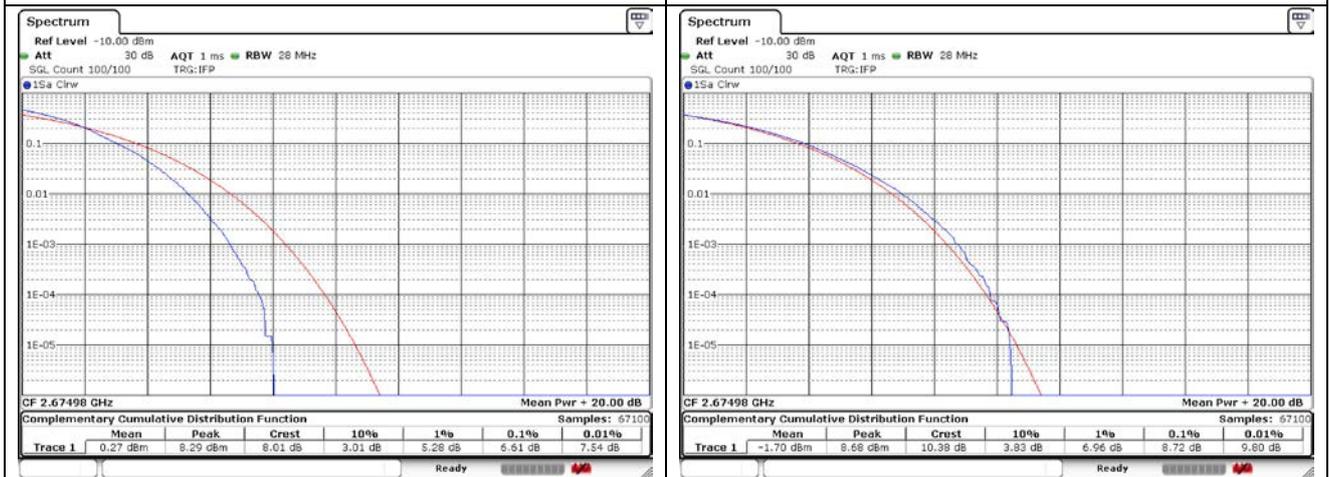
30 MHz Low Channel - Full RB - DFT-S-OFDM

30 MHz Low Channel - Full RB - CP-OFDM



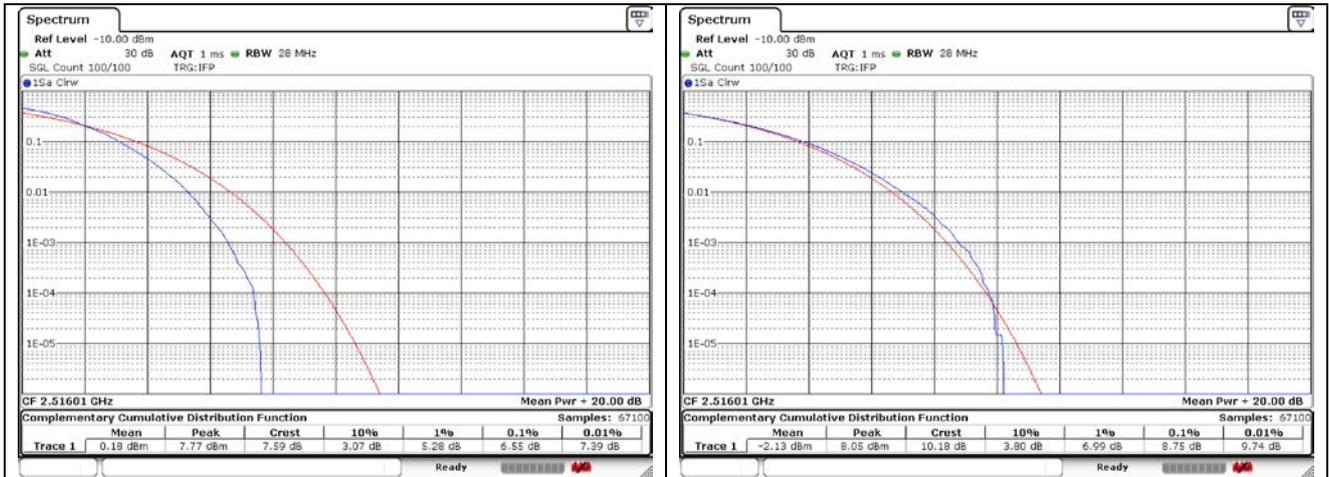
30 MHz Middle Channel - Full RB - DFT-S-OFDM

30 MHz Middle Channel - Full RB - CP-OFDM



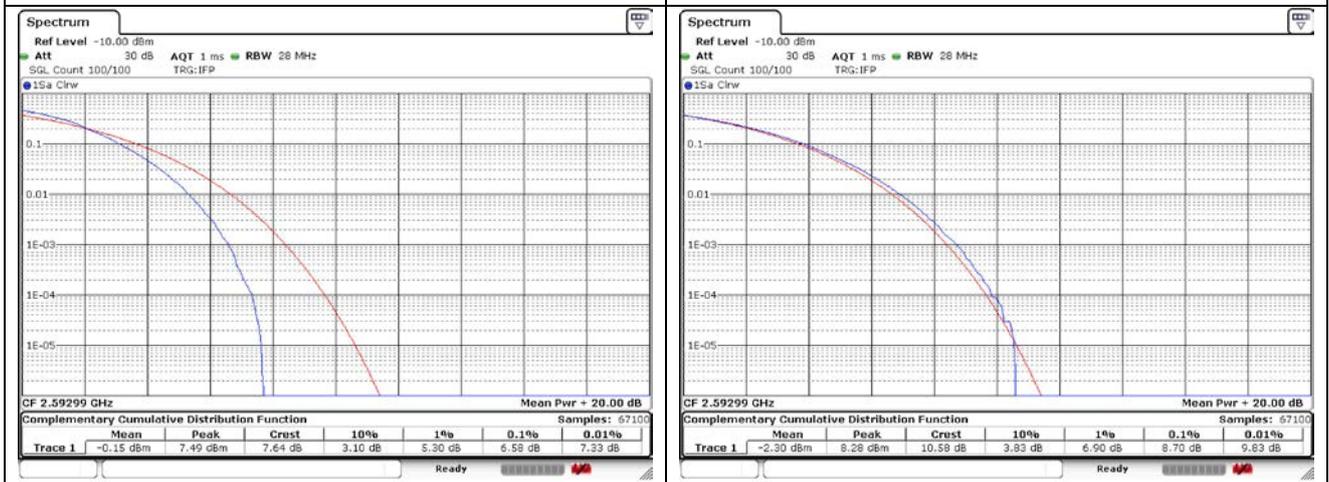
30 MHz High Channel - Full RB - DFT-S-OFDM

30 MHz High Channel - Full RB - CP-OFDM



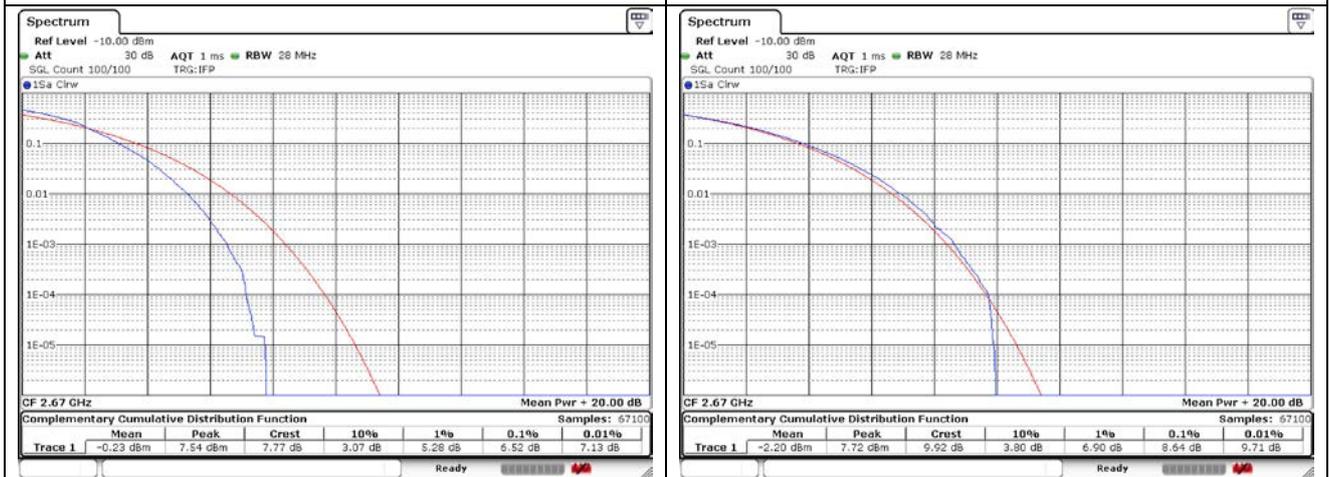
40 MHz Low Channel - Full RB - DFT-S-OFDM

40 MHz Low Channel - Full RB - CP-OFDM



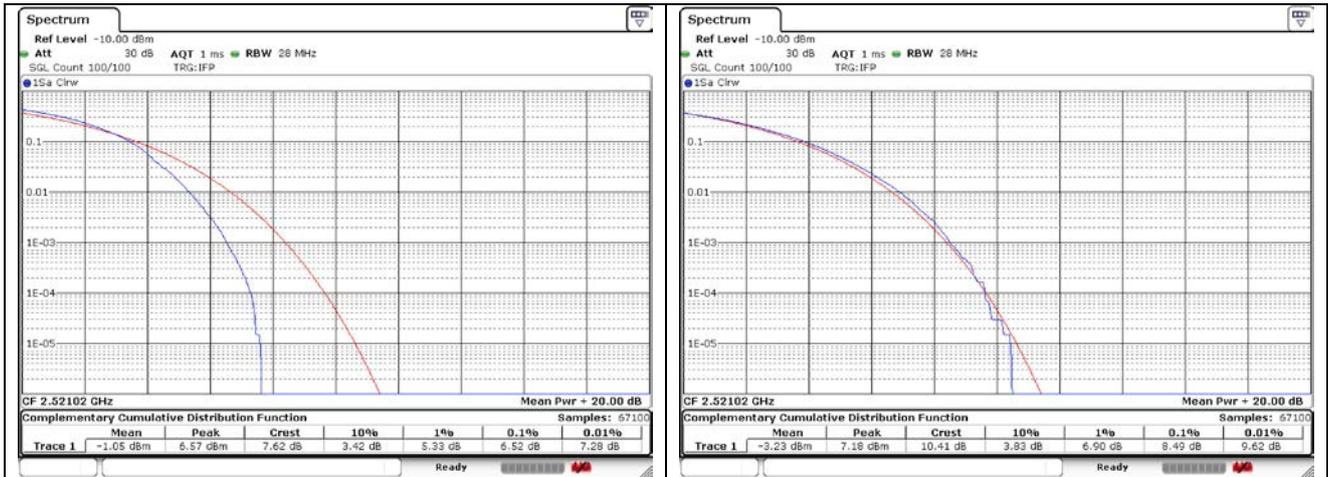
40 MHz Middle Channel - Full RB - DFT-S-OFDM

40 MHz Middle Channel - Full RB - CP-OFDM



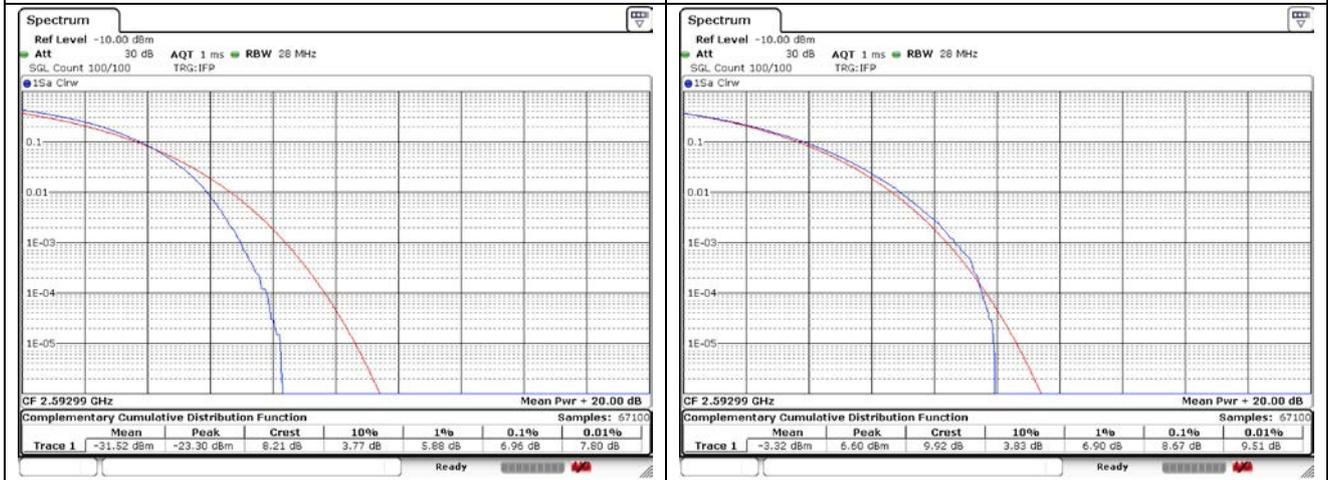
40 MHz High Channel - Full RB - DFT-S-OFDM

40 MHz High Channel - Full RB - CP-OFDM



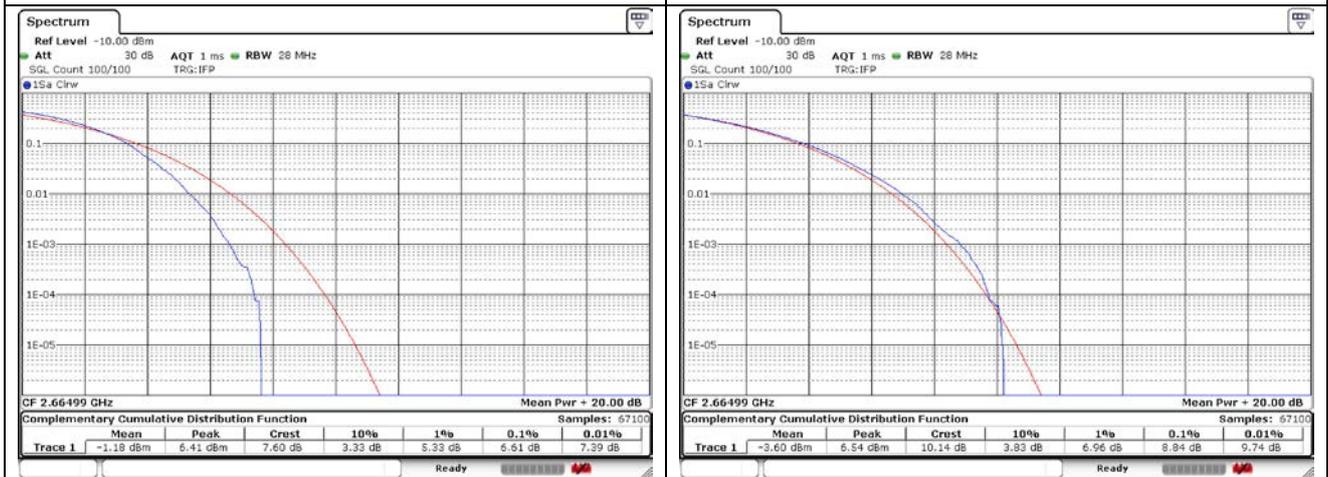
50 MHz Low Channel - Full RB - DFT-S-OFDM

50 MHz Low Channel - Full RB - CP-OFDM



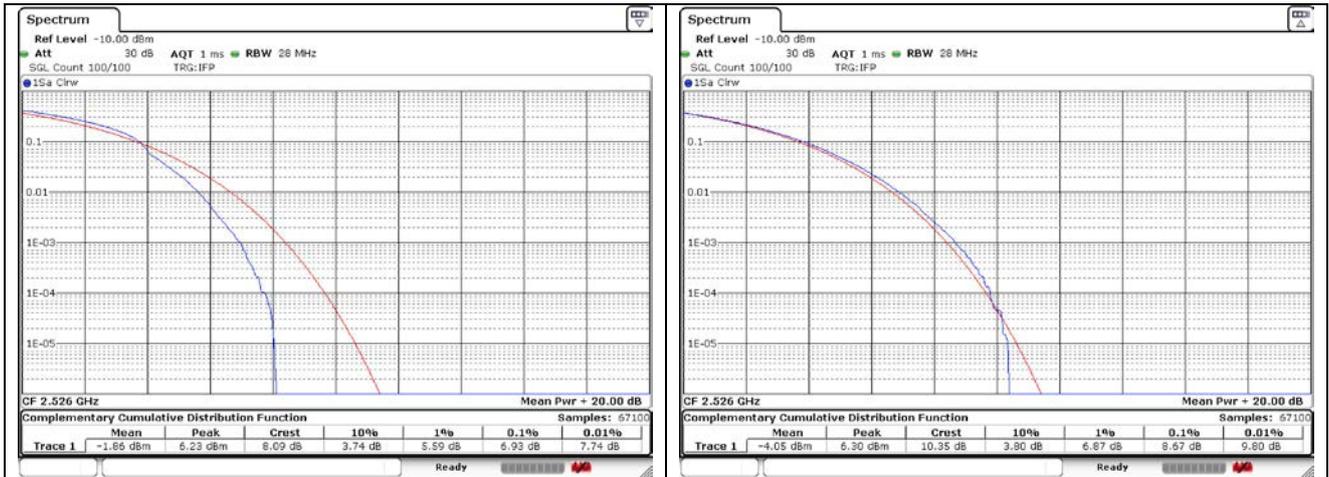
50 MHz Middle Channel - Full RB - DFT-S-OFDM

50 MHz Middle Channel - Full RB - CP-OFDM



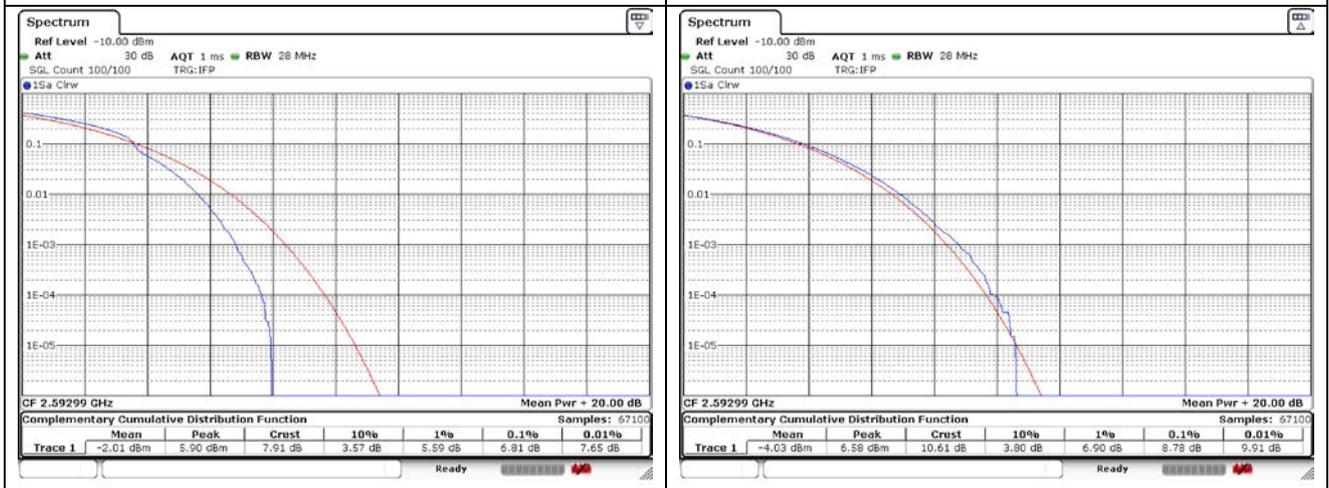
50 MHz High Channel - Full RB - DFT-S-OFDM

50 MHz High Channel - Full RB - CP-OFDM



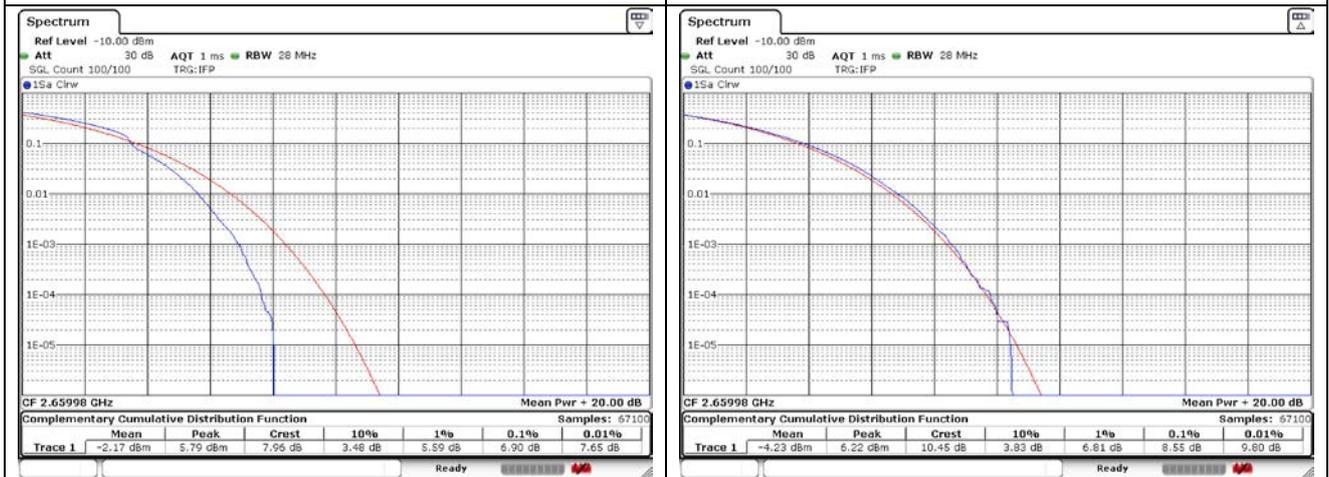
60 MHz Low Channel - Full RB - DFT-S-OFDM

60 MHz Low Channel - Full RB - CP-OFDM



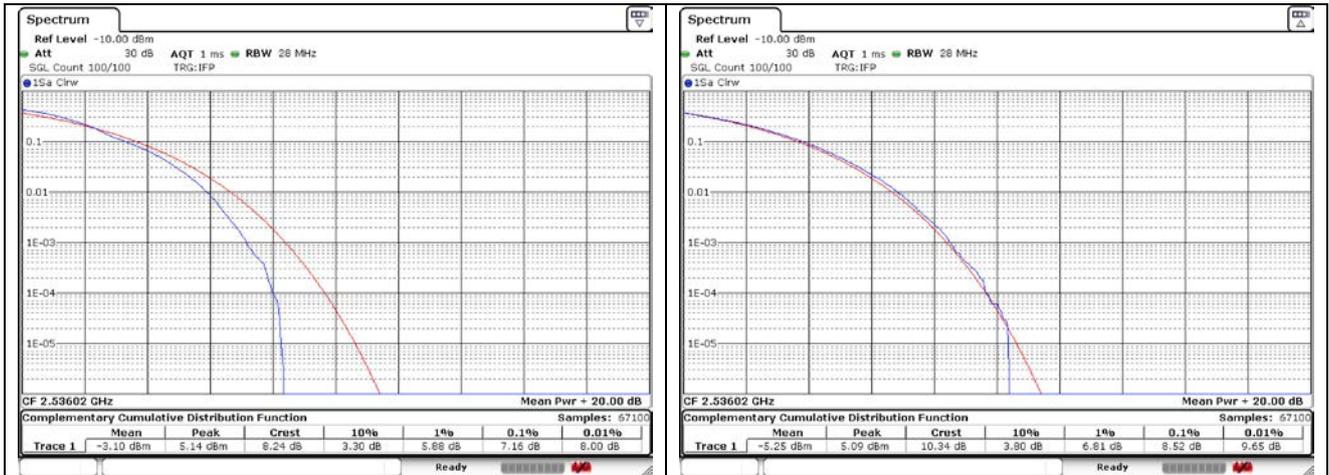
60 MHz Middle Channel - Full RB - DFT-S-OFDM

60 MHz Middle Channel - Full RB - CP-OFDM



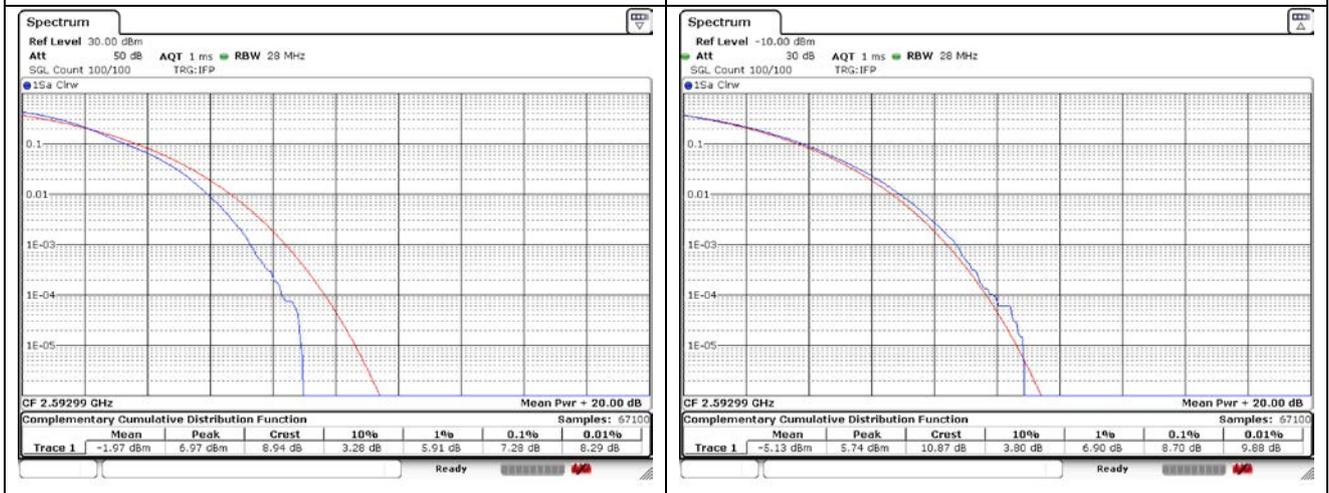
60 MHz High Channel - Full RB - DFT-S-OFDM

60 MHz High Channel - Full RB - CP-OFDM



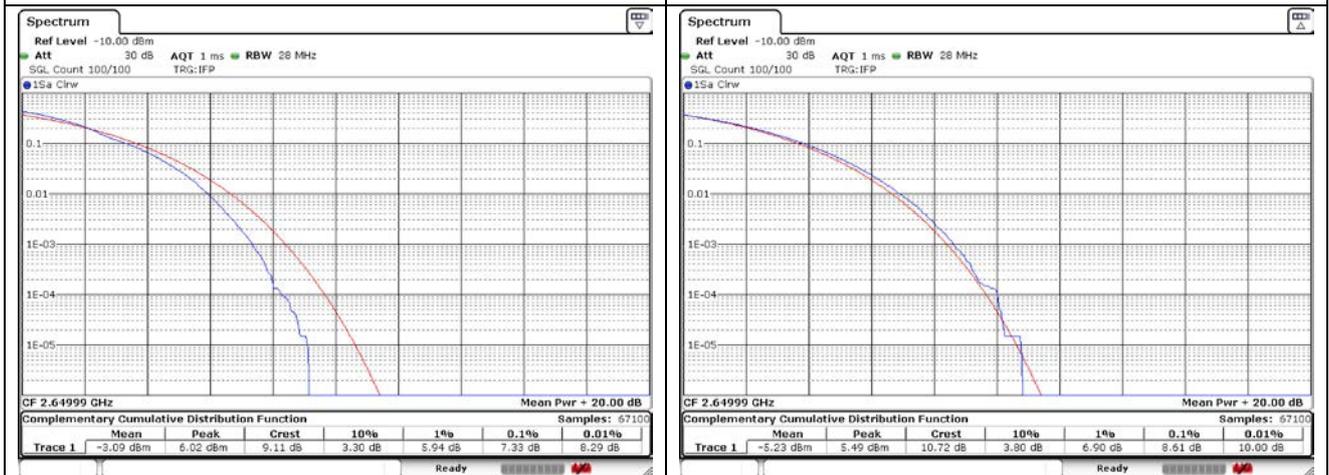
80 MHz Low Channel - Full RB - DFT-S-OFDM

80 MHz Low Channel - Full RB - CP-OFDM



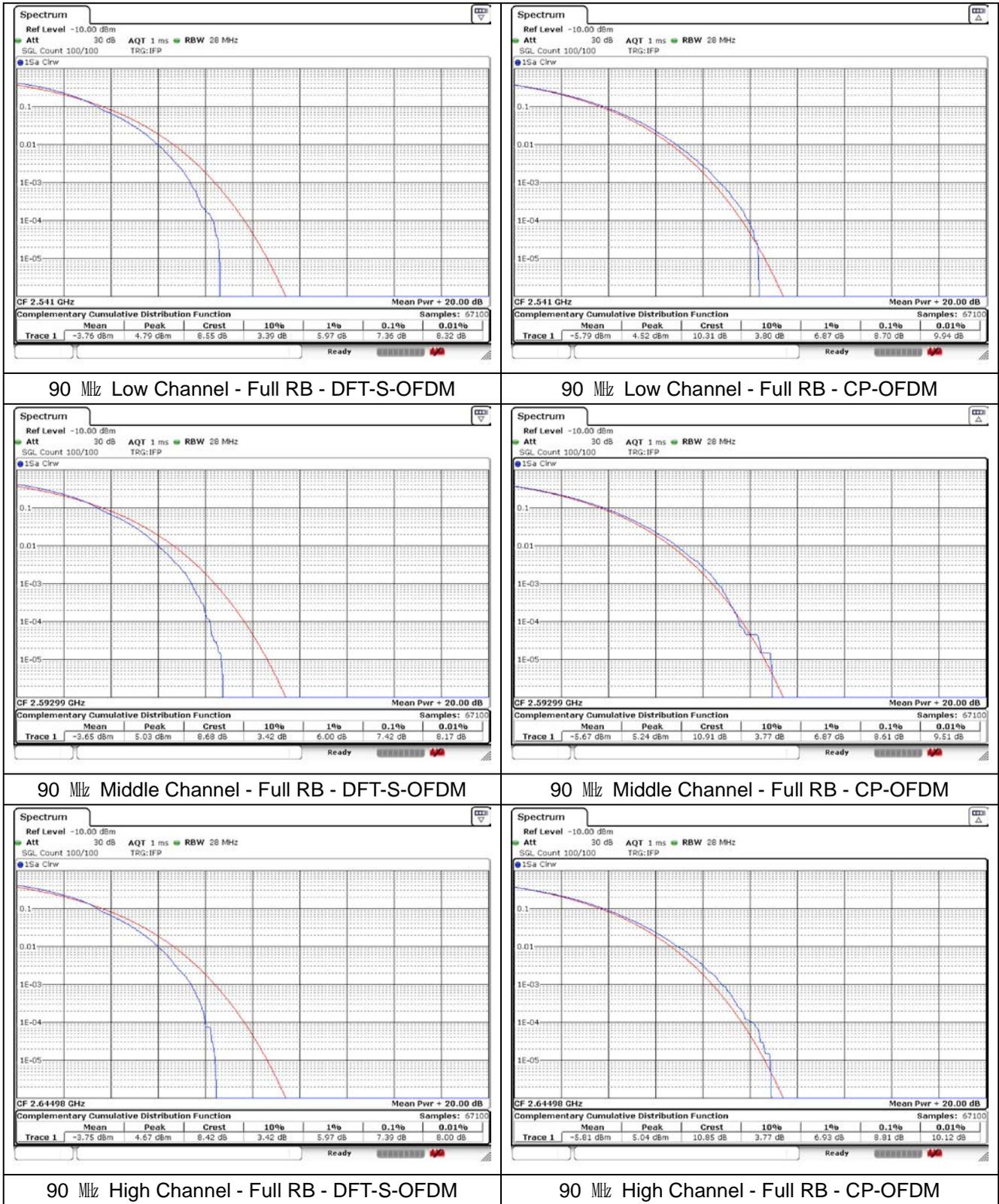
80 MHz Middle Channel - Full RB - DFT-S-OFDM

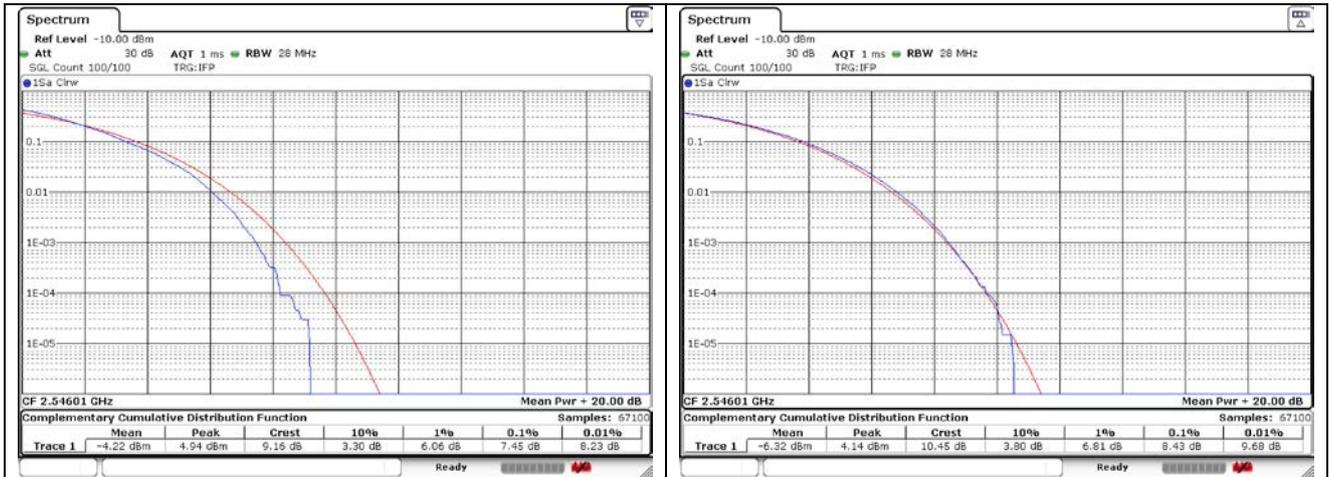
80 MHz Middle Channel - Full RB - CP-OFDM



80 MHz High Channel - Full RB - DFT-S-OFDM

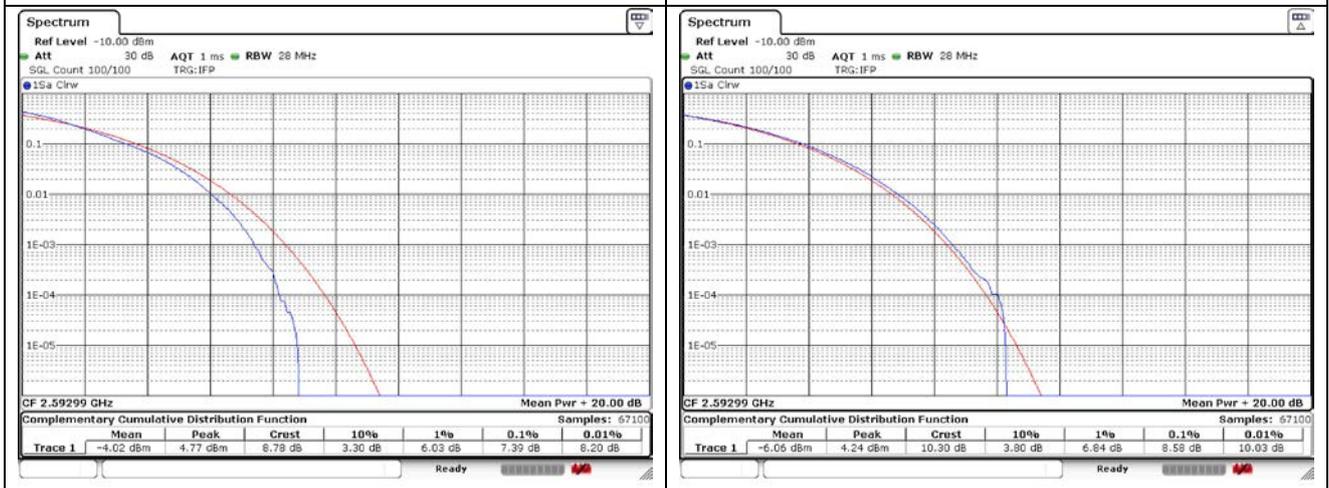
80 MHz High Channel - Full RB - CP-OFDM





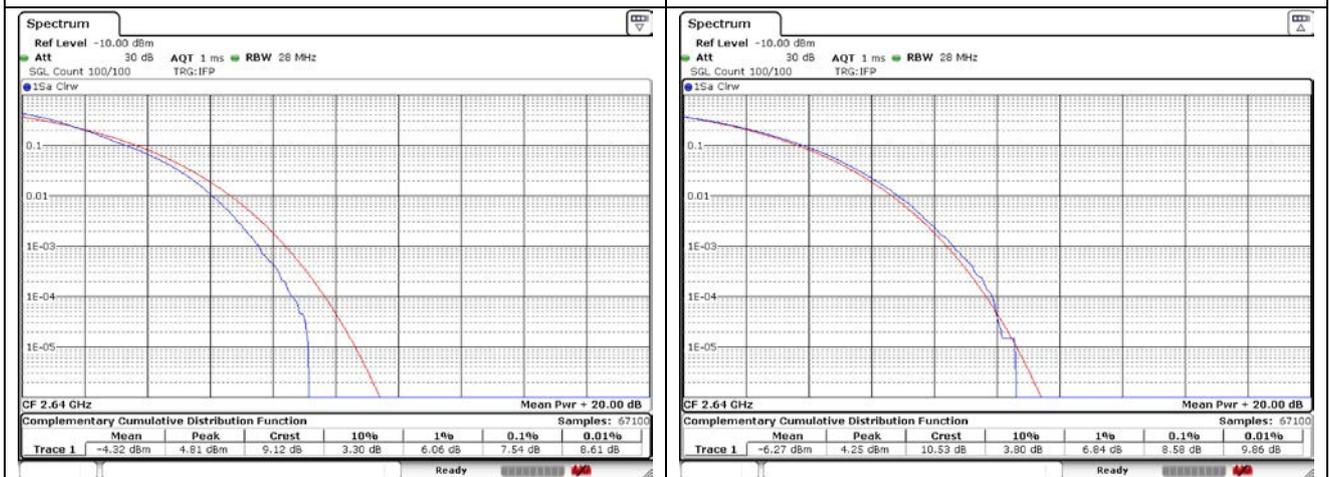
100 MHz Low Channel - Full RB - DFT-S-OFDM

100 MHz Low Channel - Full RB - CP-OFDM



100 MHz Middle Channel - Full RB - DFT-S-OFDM

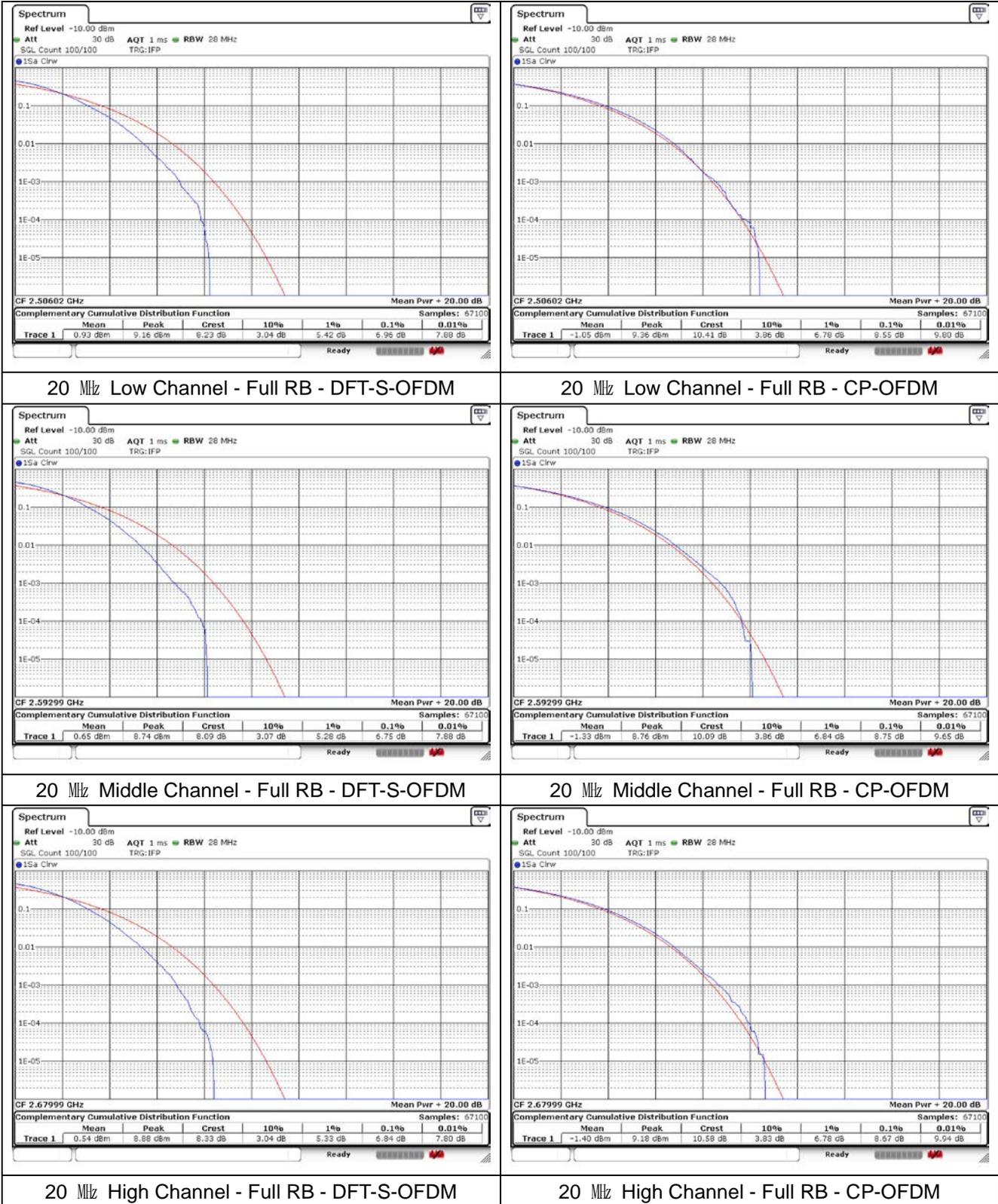
100 MHz Middle Channel - Full RB - CP-OFDM

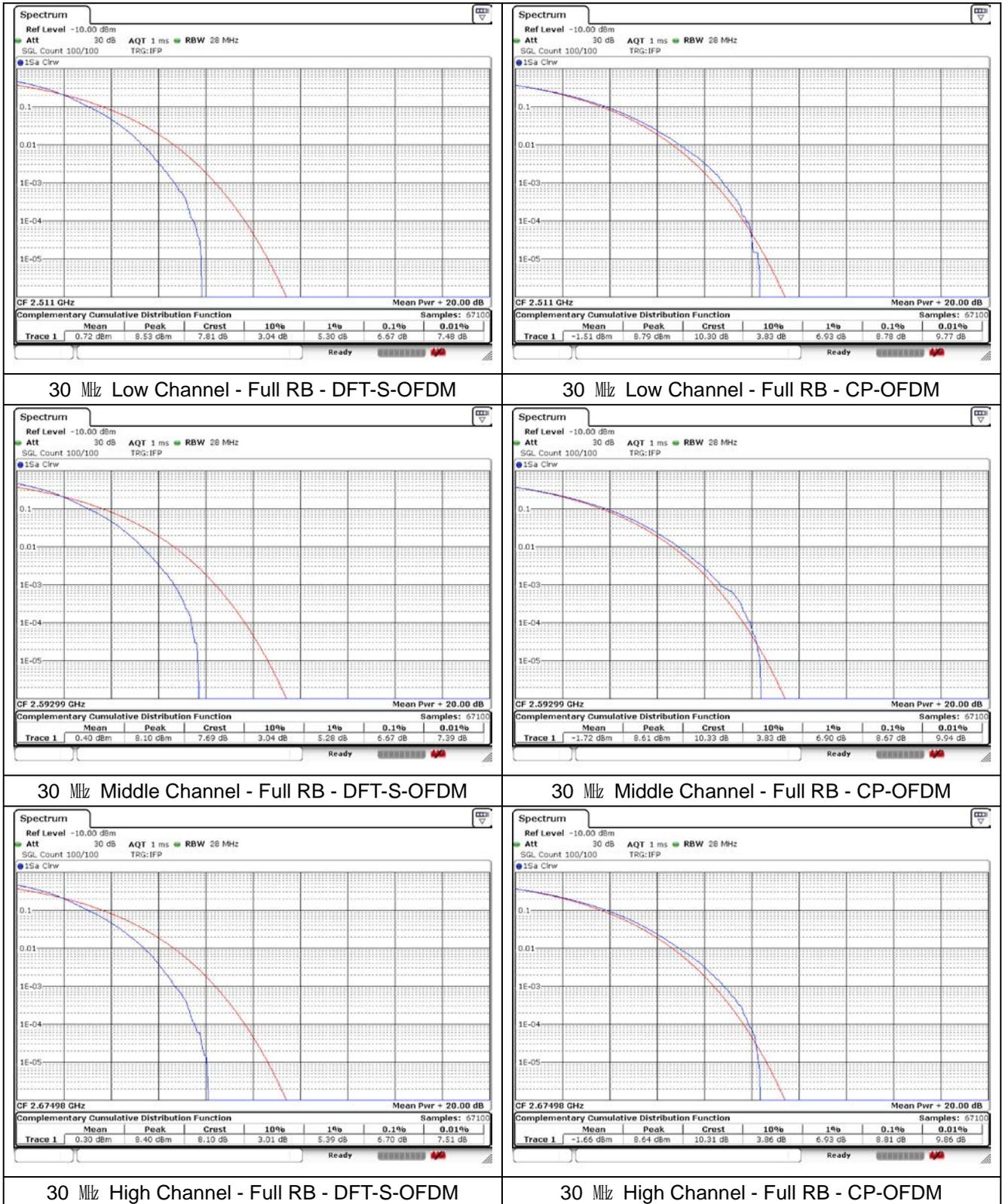


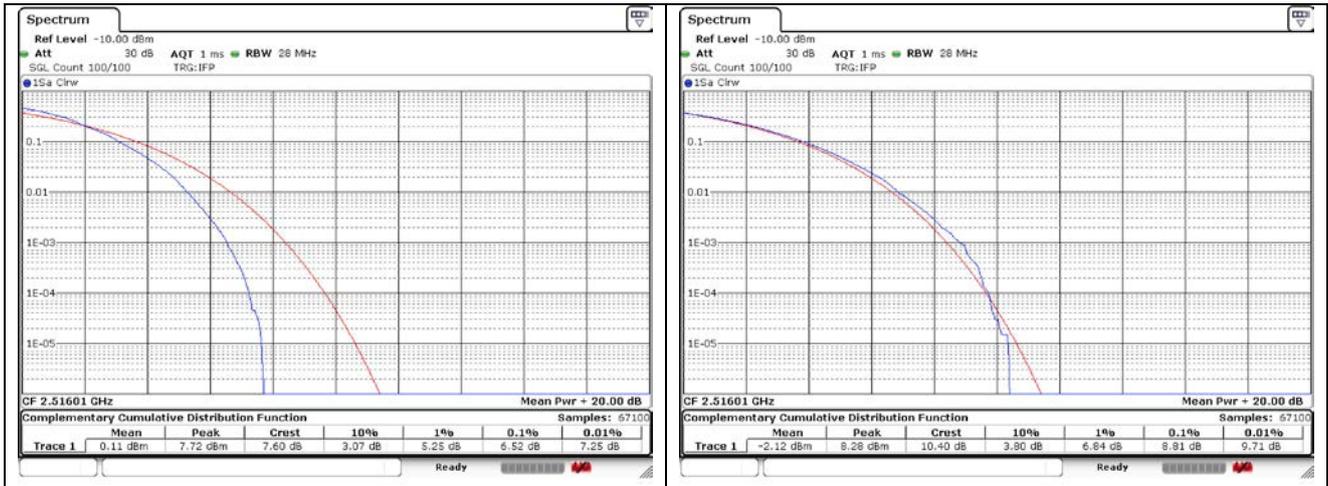
100 MHz High Channel - Full RB - DFT-S-OFDM

100 MHz High Channel - Full RB - CP-OFDM

**SIM 2**

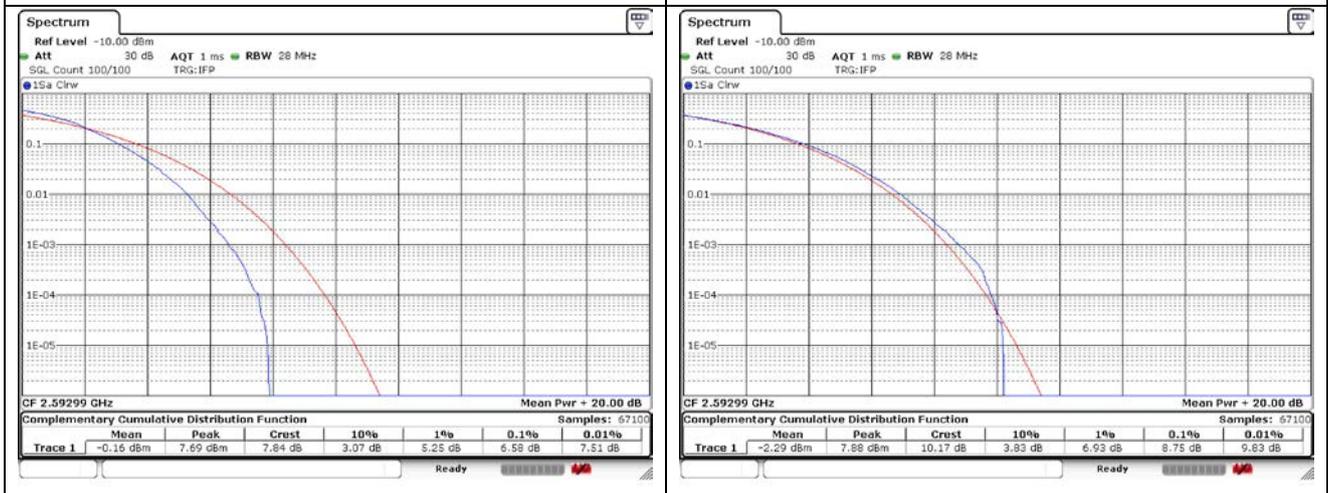






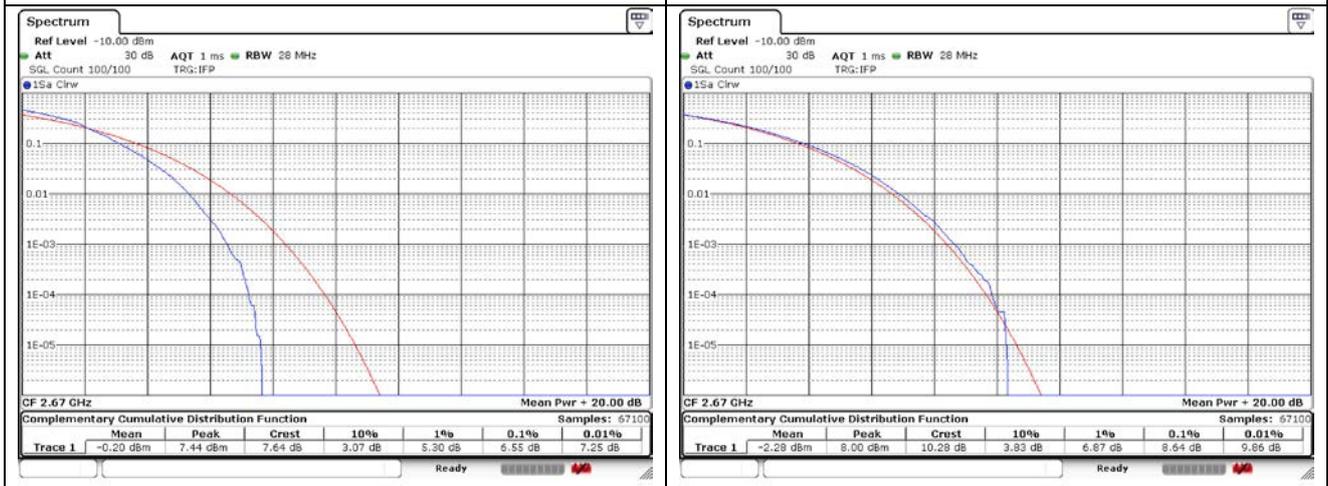
40 MHz Low Channel - Full RB - DFT-S-OFDM

40 MHz Low Channel - Full RB - CP-OFDM



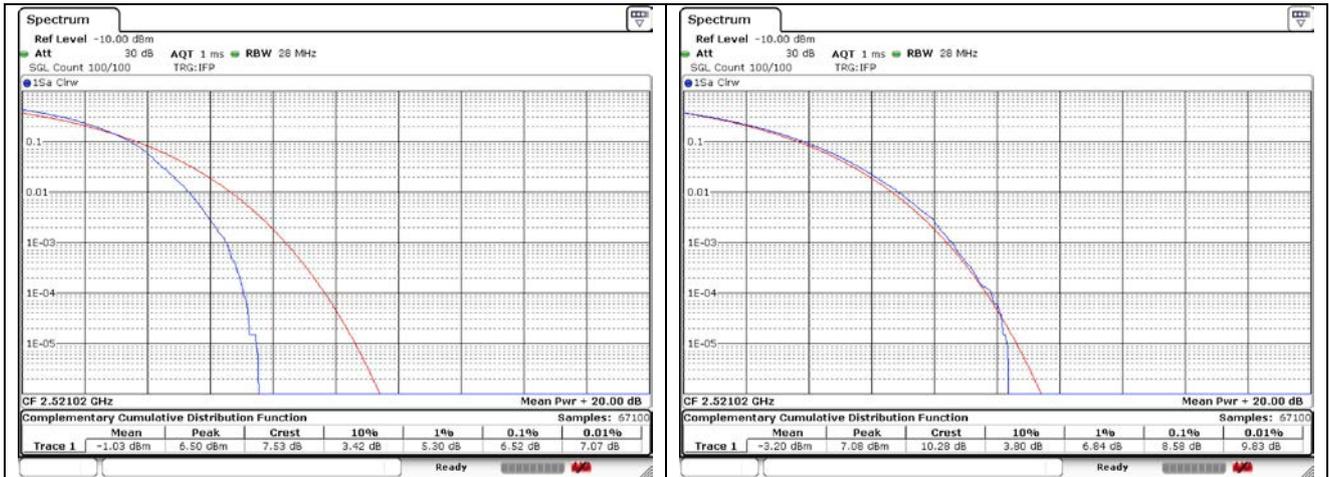
40 MHz Middle Channel - Full RB - DFT-S-OFDM

40 MHz Middle Channel - Full RB - CP-OFDM



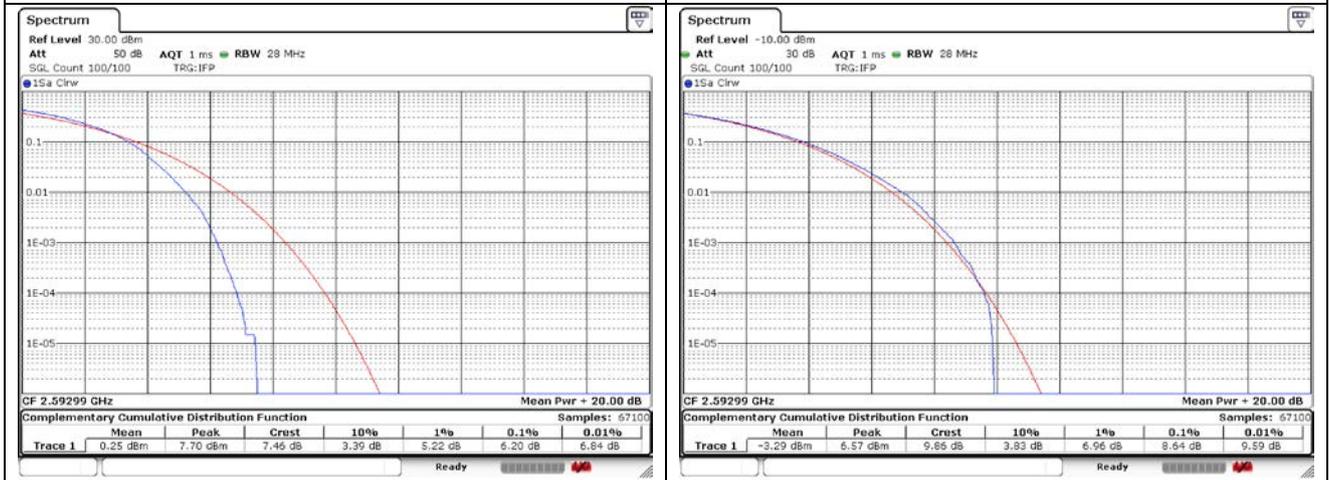
40 MHz High Channel - Full RB - DFT-S-OFDM

40 MHz High Channel - Full RB - CP-OFDM



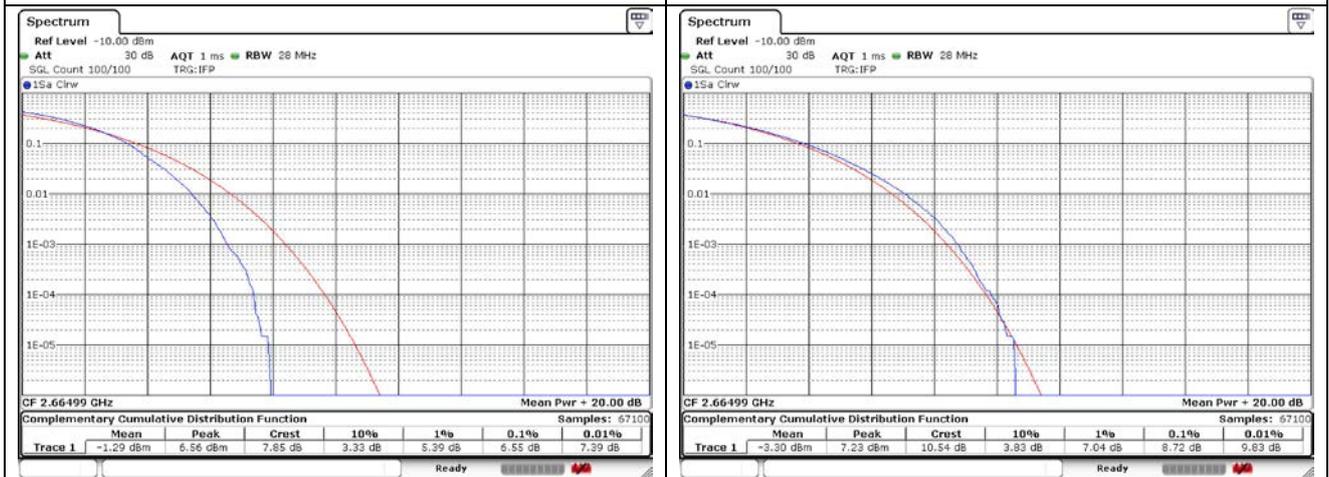
50 MHz Low Channel - Full RB - DFT-S-OFDM

50 MHz Low Channel - Full RB - CP-OFDM



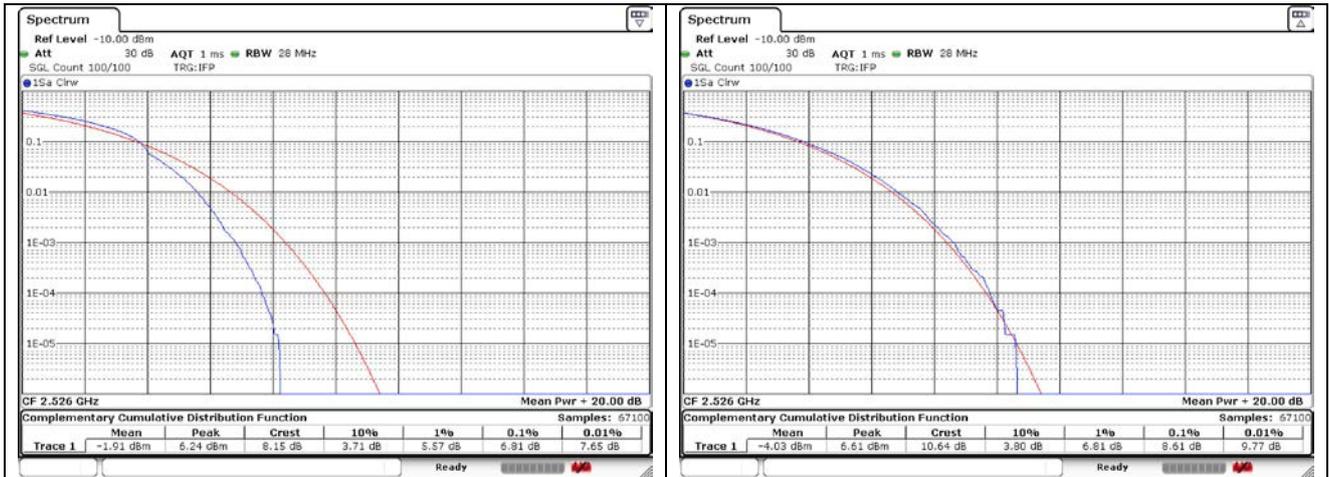
50 MHz Middle Channel - Full RB - DFT-S-OFDM

50 MHz Middle Channel - Full RB - CP-OFDM



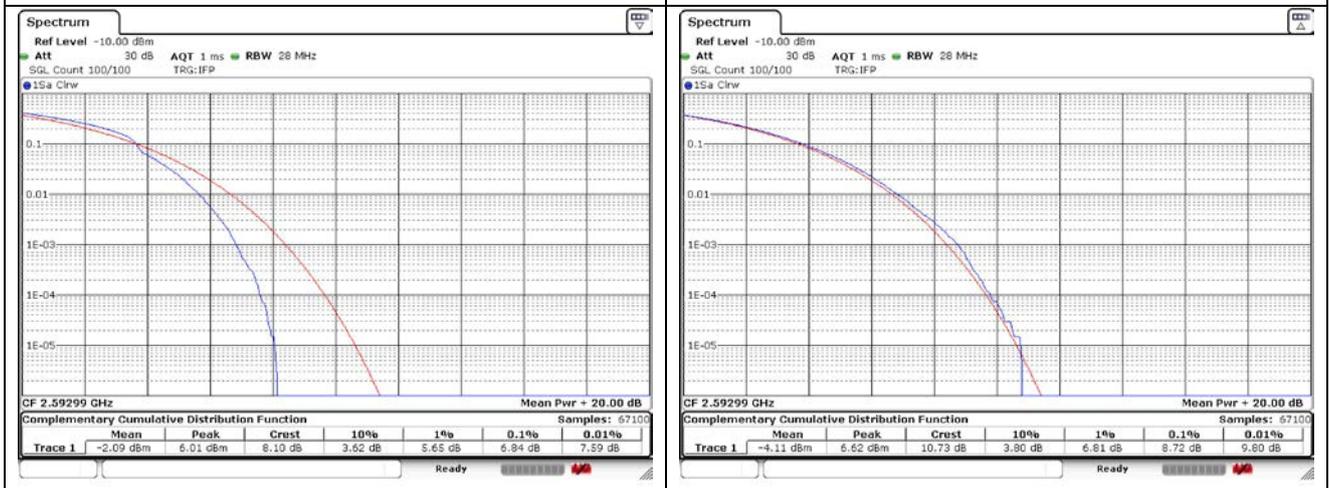
50 MHz High Channel - Full RB - DFT-S-OFDM

50 MHz High Channel - Full RB - CP-OFDM



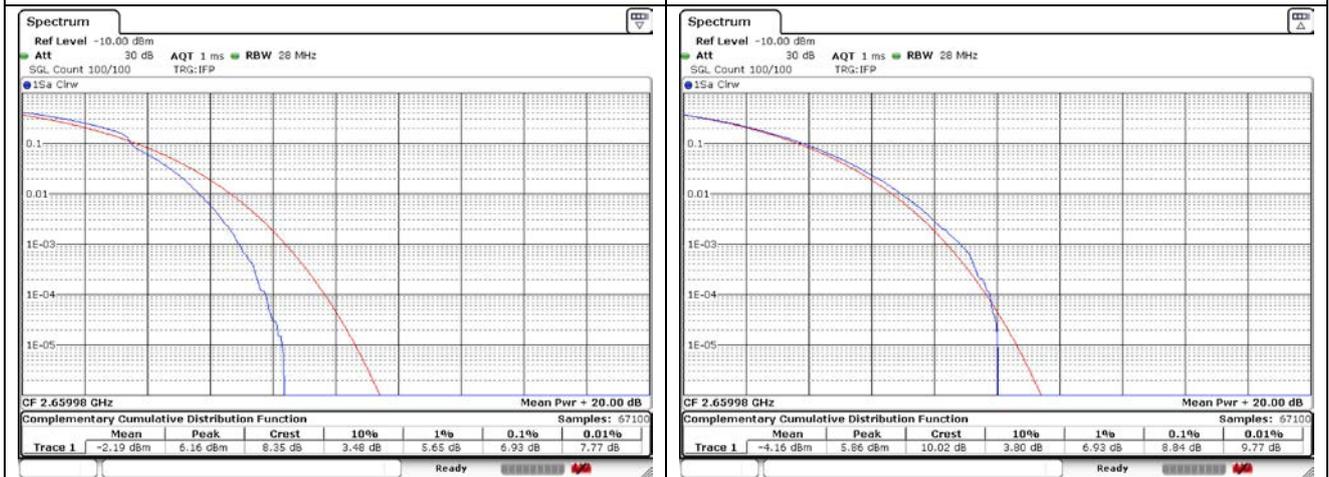
60 MHz Low Channel - Full RB - DFT-S-OFDM

60 MHz Low Channel - Full RB - CP-OFDM



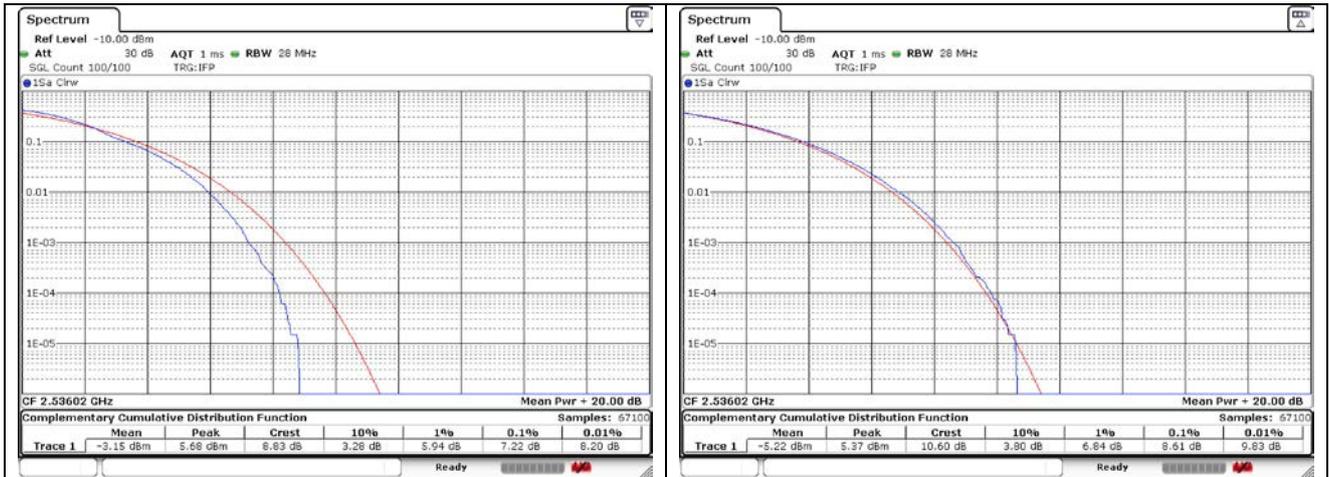
60 MHz Middle Channel - Full RB - DFT-S-OFDM

60 MHz Middle Channel - Full RB - CP-OFDM



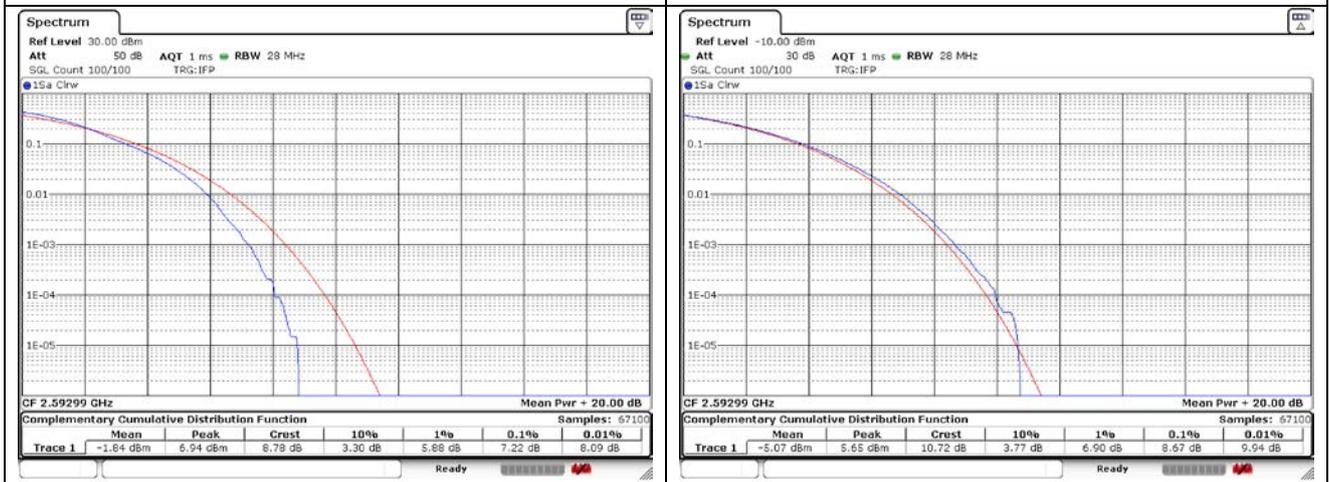
60 MHz High Channel - Full RB - DFT-S-OFDM

60 MHz High Channel - Full RB - CP-OFDM



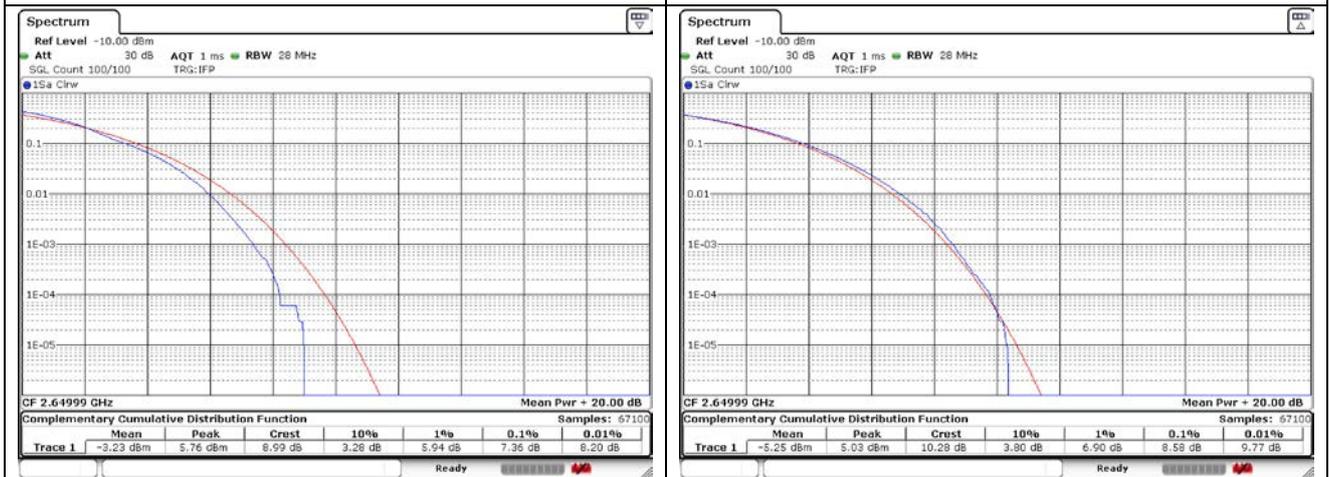
80 MHz Low Channel - Full RB - DFT-S-OFDM

80 MHz Low Channel - Full RB - CP-OFDM



80 MHz Middle Channel - Full RB - DFT-S-OFDM

80 MHz Middle Channel - Full RB - CP-OFDM



80 MHz High Channel - Full RB - DFT-S-OFDM

80 MHz High Channel - Full RB - CP-OFDM