



REPORT No.: SZ16030142W05

Low channel:

Spectrum Plot of Worst Value

1.4MHz/QPSK

1.4MHz/16QAM



Spectrum Plot of Worst Value

3MHz/QPSK

3MHz/16QAM





Spectrum Plot of Worst Value

5MHz/QPSK

5MHz/16QAM



Spectrum Plot of Worst Value

10MHz/QPSK

10MHz/16QAM

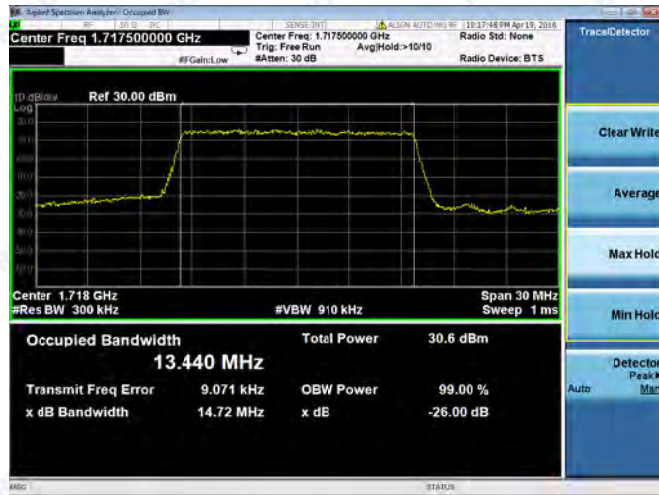




Spectrum Plot of Worst Value

15MHz/QPSK

15MHz/16QAM



Spectrum Plot of Worst Value

20MHz/QPSK

20MHz/16QAM





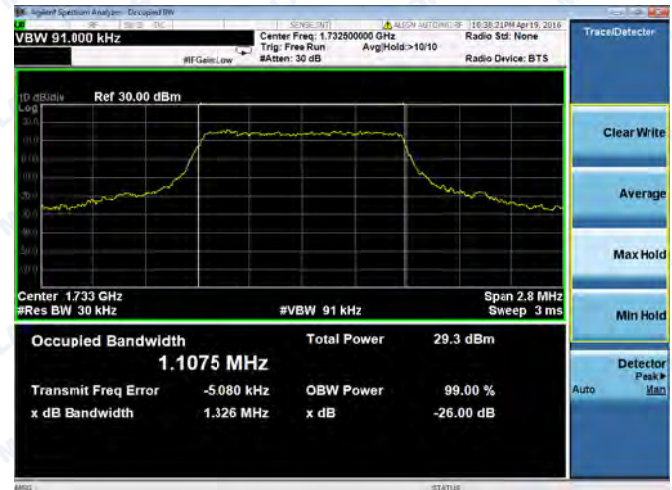
REPORT No.: SZ16030142W05

Middle channel:

Spectrum Plot of Worst Value

1.4MHz/QPSK

1.4MHz/16QAM



Spectrum Plot of Worst Value

3MHz/QPSK

3MHz/16QAM





Spectrum Plot of Worst Value

5MHz/QPSK

5MHz/16QAM



Spectrum Plot of Worst Value

10MHz/QPSK

10MHz/16QAM



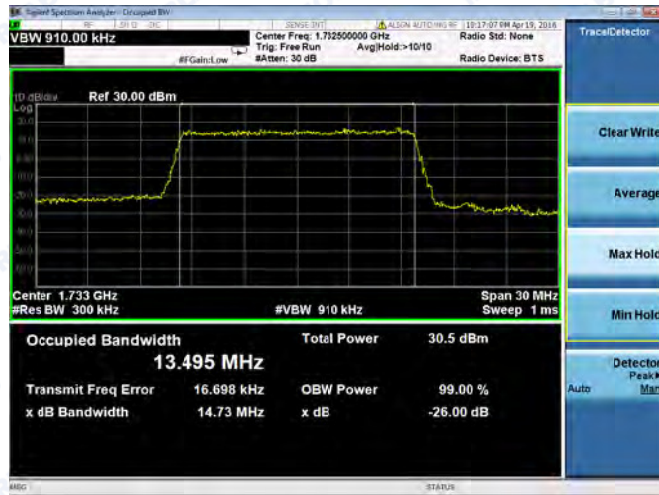


REPORT No.: SZ16030142W05

Spectrum Plot of Worst Value

15MHz/QPSK

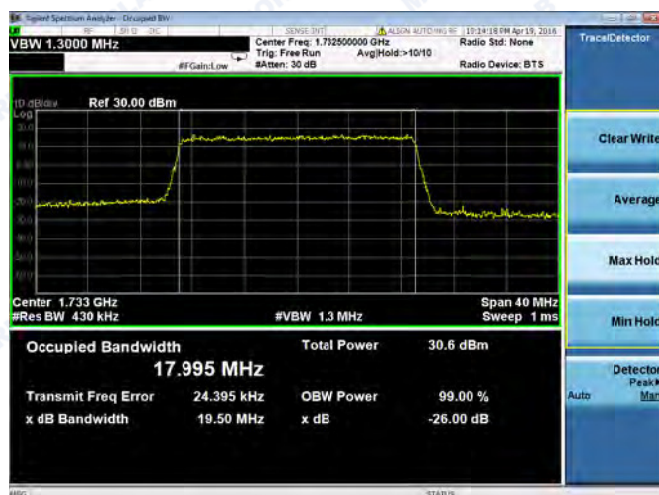
15MHz/16QAM



Spectrum Plot of Worst Value

20MHz/QPSK

20MHz/16QAM





REPORT No.: SZ16030142W05

High channel:

Spectrum Plot of Worst Value

1.4MHz/QPSK

1.4MHz/16QAM



Spectrum Plot of Worst Value

3MHz/QPSK

3MHz/16QAM





Spectrum Plot of Worst Value

5MHz/QPSK

5MHz/16QAM



Spectrum Plot of Worst Value

10MHz/QPSK

10MHz/16QAM

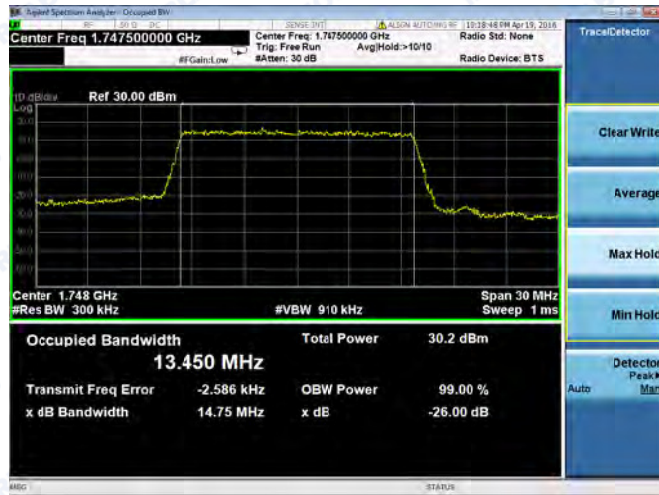




Spectrum Plot of Worst Value

15MHz/QPSK

15MHz/16QAM



Spectrum Plot of Worst Value

20MHz/QPSK

20MHz/16QAM



**LTE Band 5****Low channel:**

Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	99% Bandwidth (MHz)		Channel	Frequency (MHz)	99% Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
20407	824.7	1.0965	1.0920	20415	825.5	2.7132	2.7078
Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
20407	824.7	1.284	1.272	20415	825.5	2.983	2.998

Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	99% Bandwidth (MHz)		Channel	Frequency (MHz)	99% Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
20425	826.5	4.5285	4.5290	20450	829.0	8.9907	8.9910
Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
20425	826.5	5.038	5.046	20450	829.0	9.941	9.851

Middle channel:

Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	99% Bandwidth (MHz)		Channel	Frequency (MHz)	99% Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
20525	836.5	1.0969	1.1001	20525	836.5	2.7123	2.7099
Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
20525	836.5	1.291	1.319	20525	836.5	3.003	3.005



Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	99% Bandwidth (MHz)		Channel	Frequency (MHz)	99% Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
20525	836.5	4.5249	4.5169	20525	836.5	8.9977	8.9699
Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
20525	836.5	4.996	4.992	20525	836.5	9.922	9.856

High channel:

Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	99% Bandwidth (MHz)		Channel	Frequency (MHz)	99% Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
20643	848.3	1.1063	1.0986	20635	847.5	2.7112	2.7164
Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
20643	848.3	1.276	1.290	20635	847.5	2.986	3.006

Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	99% Bandwidth (MHz)		Channel	Frequency (MHz)	99% Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
20625	846.5	4.5367	4.5180	20600	844.0	8.9889	8.9761
Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
20625	846.5	4.998	4.981	20600	844.0	9.920	9.906



REPORT No.: SZ16030142W05

Low channel:

Spectrum Plot of Worst Value

1.4MHz/QPSK

1.4MHz/16QAM



Spectrum Plot of Worst Value

3MHz/QPSK

3MHz/16QAM





Spectrum Plot of Worst Value

5MHz/QPSK



5MHz/16QAM



Spectrum Plot of Worst Value

10MHz/QPSK



10MHz/16QAM





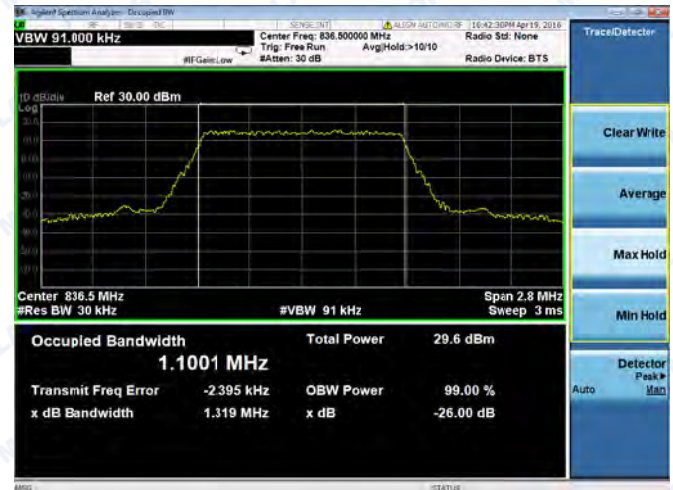
REPORT No.: SZ16030142W05

Middle channel:

Spectrum Plot of Worst Value

1.4MHz/QPSK

1.4MHz/16QAM



Spectrum Plot of Worst Value

3MHz/QPSK

3MHz/16QAM





Spectrum Plot of Worst Value

5MHz/QPSK

5MHz/16QAM



Spectrum Plot of Worst Value

10MHz/QPSK

10MHz/16QAM





REPORT No.: SZ16030142W05

High channel:

Spectrum Plot of Worst Value

1.4MHz/QPSK

1.4MHz/16QAM



Spectrum Plot of Worst Value

3MHz/QPSK

3MHz/16QAM

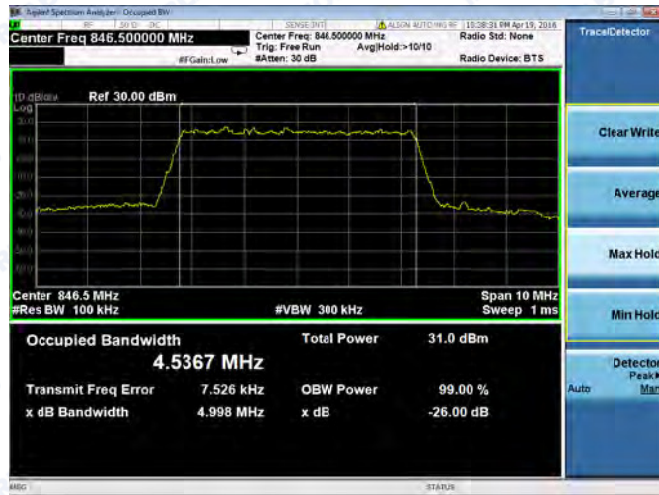




Spectrum Plot of Worst Value

5MHz/QPSK

5MHz/16QAM



Spectrum Plot of Worst Value

10MHz/QPSK

10MHz/16QAM





LTE Band 12

Low channel:

Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	99% Bandwidth (MHz)		Channel	Frequency (MHz)	99% Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
23017	699.7	1.0997	1.0979	23025	700.5	2.7173	2.7074
Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
23017	699.7	1.297	1.284	23025	700.5	2.986	3.002

Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	99% Bandwidth (MHz)		Channel	Frequency (MHz)	99% Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
23035	701.5	4.5157	4.5225	23060	704	8.9523	8.9665
Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
23035	701.5	5.009	5.009	23060	704	9.757	9.878

Middle channel:

Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	99% Bandwidth (MHz)		Channel	Frequency (MHz)	99% Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
23095	707.5	1.0965	1.1017	23095	707.5	2.7124	2.7011
Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
23095	707.5	1.292	1.292	23095	707.5	3.004	2.996



Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	99% Bandwidth (MHz)		Channel	Frequency (MHz)	99% Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
23095	707.5	4.5333	4.5265	23095	707.5	9.0139	8.9975
Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
23095	707.5	4.989	5.051	23095	707.5	10.03	9.889

High channel:

Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	99% Bandwidth (MHz)		Channel	Frequency (MHz)	99% Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
23173	715.3	1.0953	1.1038	23165	714.5	2.7105	2.7114
Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
23173	715.3	1.281	1.301	23165	714.5	3.008	2.992

Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	99% Bandwidth (MHz)		Channel	Frequency (MHz)	99% Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
23155	713.5	4.5284	4.5154	23130	711	9.0025	8.9838
Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
23155	713.5	5.016	5.017	23130	711	9.930	9.813



REPORT No.: SZ16030142W05

Low channel:

Spectrum Plot of Worst Value

1.4MHz/QPSK



1.4MHz/16QAM



Spectrum Plot of Worst Value

3MHz/QPSK



3MHz/16QAM





Spectrum Plot of Worst Value

5MHz/QPSK

5MHz/16QAM



Spectrum Plot of Worst Value

10MHz/QPSK

10MHz/16QAM





REPORT No.: SZ16030142W05

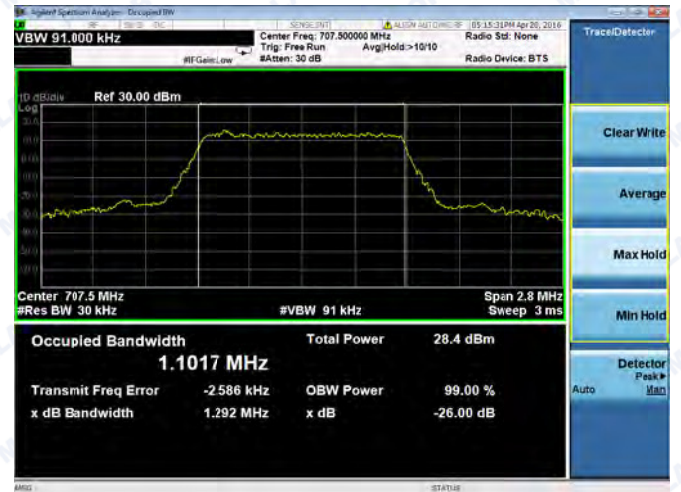
Middle channel:

Spectrum Plot of Worst Value

1.4MHz/QPSK



1.4MHz/16QAM

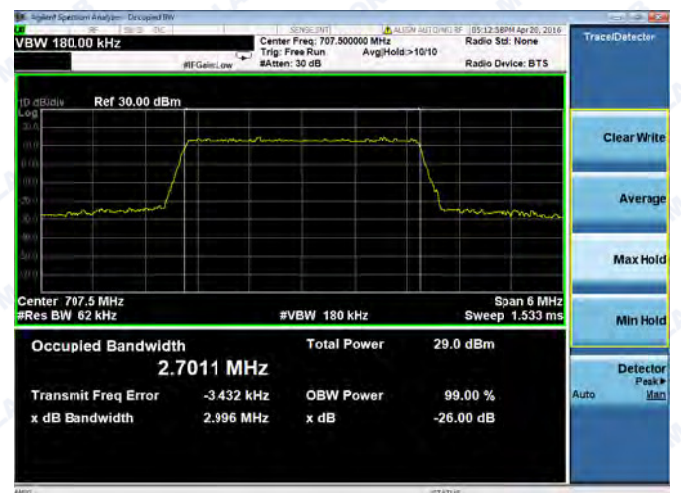


Spectrum Plot of Worst Value

3MHz/QPSK



3MHz/16QAM





Spectrum Plot of Worst Value

5MHz/QPSK

5MHz/16QAM



Spectrum Plot of Worst Value

10MHz/QPSK

10MHz/16QAM





REPORT No.: SZ16030142W05

High channel:

Spectrum Plot of Worst Value

1.4MHz/QPSK

1.4MHz/16QAM



Spectrum Plot of Worst Value

3MHz/QPSK

3MHz/16QAM





Spectrum Plot of Worst Value

5MHz/QPSK

5MHz/16QAM



Spectrum Plot of Worst Value

10MHz/QPSK

10MHz/16QAM



2.3 Frequency Stability

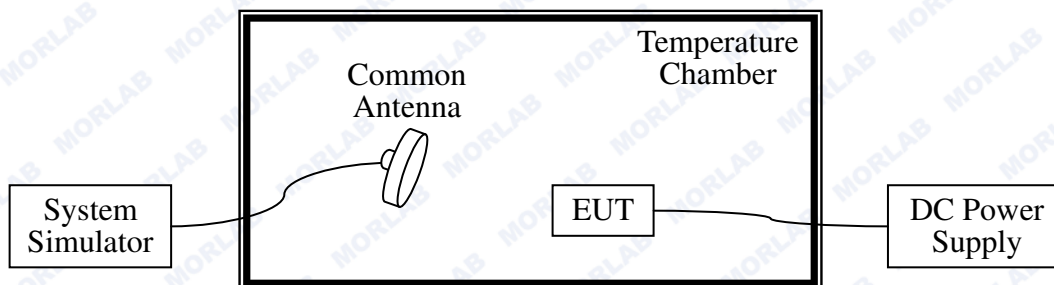
2.3.1 Requirement

According to FCC section 2.1055 and FCC section 27.54, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

2.3.2 Test Description

Test Setup:



The EUT, which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Rohde& Schwarz	CMW500	1201.0002k5 0/124534/wk	2016.03.02	2017.03.01
DC Power Supply	Good Will	GPS-3030DD	EF920938	2016.03.02	2017.03.01
Temperature Chamber	YinHe Experimental Equip.	HL4003T	(n.a.)	2016.03.02	2017.03.01



2.3.3 Test Verdict

The nominal, highest and lowest extreme voltages are separately 3.8VDC, 4.2VDC and 3.45VDC, which are specified by the applicant; the normal temperature here used is 20°C. The frequency deviation limit is $\pm 2.5\text{ppm}$.

The testing was performed using one RB and Bandwidth setting for each band.

LTE Band 2 – QPSK - Channel 18900 – Frequency 1880.0MHz – RB 6/0				
Limit: 1880.0MHz*1ppm=1880.0Hz				
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Result
100	3.8	-30	8.26	PASS
100		-20	-2.79	
100		-10	-2.83	
100		0	6.63	
100		+10	0.54	
100		+20	8.5	
100		+30	5.36	
100		+40	7.55	
100		+50	-3.23	
115	4.2	+20	-0.52	PASS
85	3.45	+20	-2.64	

LTE Band 4 – QPSK - Channel 20175 – Frequency 1732.5MHz – RB 6/0				
Limit: 1732.5MHz*2.5ppm=4331.25Hz				
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Result
100	3.8	-30	11.87	PASS
100		-20	-10.35	
100		-10	9.14	
100		0	11.05	
100		+10	9.87	
100		+20	8.79	
100		+30	-11.58	
100		+40	-13.24	
100		+50	9.09	
115	4.2	+20	10.87	PASS
85	3.45	+20	12.22	



REPORT No.: SZ16030142W05

LTE Band 5 – QPSK - Channel 20525 – Frequency 836.5MHz – RB 6/0				
Limit: 836.5 MHz*2.5ppm=2091.25Hz				
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Result
100	3.8	-30	11.39	PASS
100		-20	-10.83	
100		-10	8.66	
100		0	10.57	
100		+10	-12.49	
100		+20	8.31	
100		+30	-12.06	
100		+40	9.66	
100		+50	8.61	
115	4.2	+20	10.39	PASS
85	3.45	+20	-14.84	

LTE Band 12 – QPSK - Channel 23095 – Frequency 707.5MHz – RB 6/0				
Limit: 707.5 MHz*2.5ppm=1768.75Hz				
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Result
100	3.8	-30	13.01	PASS
100		-20	-9.21	
100		-10	10.28	
100		0	12.19	
100		+10	11.01	
100		+20	9.93	
100		+30	-10.44	
100		+40	11.28	
100		+50	10.23	
115	4.2	+20	12.01	PASS
85	3.45	+20	13.36	



2.4 Peak to Average Ratio

2.4.1 Requirement

According to FCC section 27.50(d) (5), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

2.4.2 Test Description

See section 2.1.2 of this report.

2.4.3 Test Result

Record the maximum PAPR level associated with a probability of 0.1%.



REPORT No.: SZ16030142W05

LTE Band 2 Low channel

Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18607	1850.7	4.76	5.78	18615	1851.5	4.95	5.88

Spectrum Plot of Worst Value (Low channel)

1.4MHz/QPSK

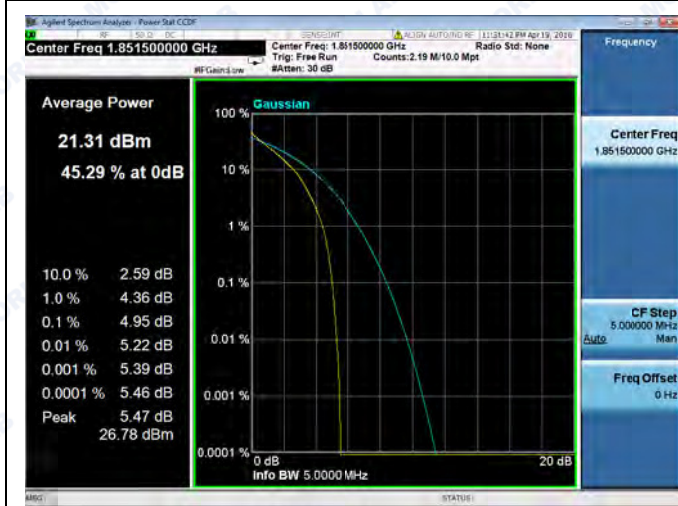


1.4MHz/16QAM



Spectrum Plot of Worst Value

3MHz/QPSK



3MHz/16QAM

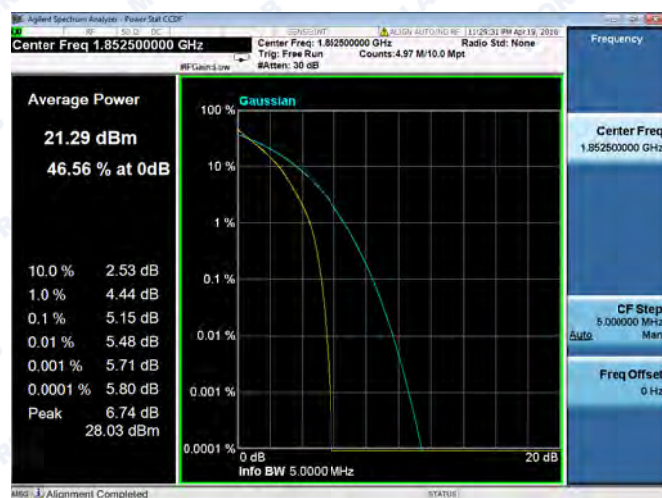




REPORT No.: SZ16030142W05

LTE Band 2 Low channel

Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18625	1852.5	5.15	5.97	18650	1855.0	4.71	6.11

Spectrum Plot of Worst Value**5MHz/QPSK****5MHz/16QAM****Spectrum Plot of Worst Value****10MHz/QPSK****10MHz/16QAM**



REPORT No.: SZ16030142W05

LTE Band 2 Low channel

Channel Bandwidth: 15MHz				Channel Bandwidth: 20MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18675	1857.5	5.77	6.90	18700	1860.0	6.45	7.21

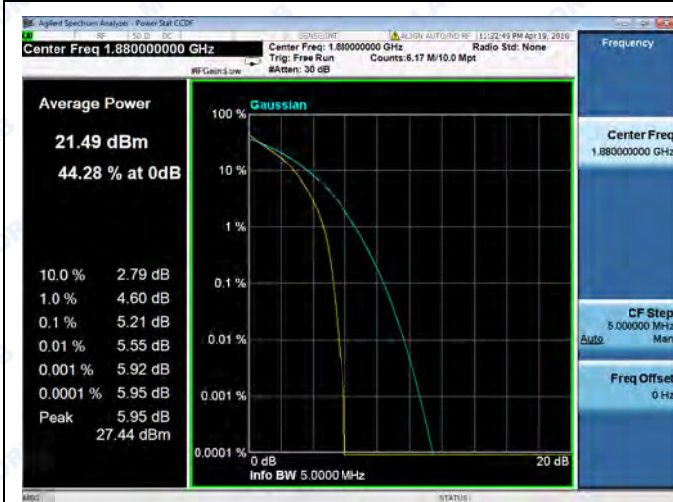
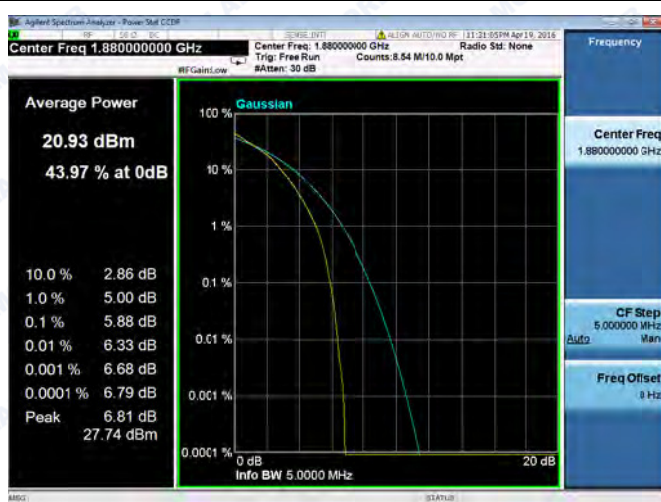
Spectrum Plot of Worst Value**15MHz/QPSK****15MHz/16QAM****Spectrum Plot of Worst Value****20MHz/QPSK****20MHz/16QAM**



REPORT No.: SZ16030142W05

LTE Band 2 Middle channel

Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18900	1880.0	5.21	5.13	18900	1880.0	4.95	5.88

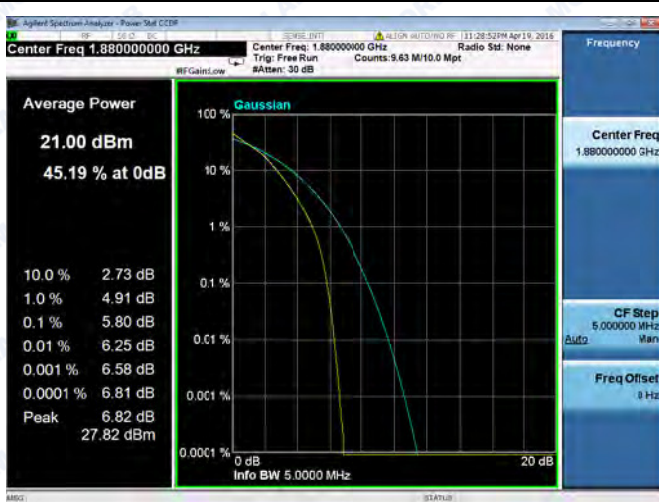
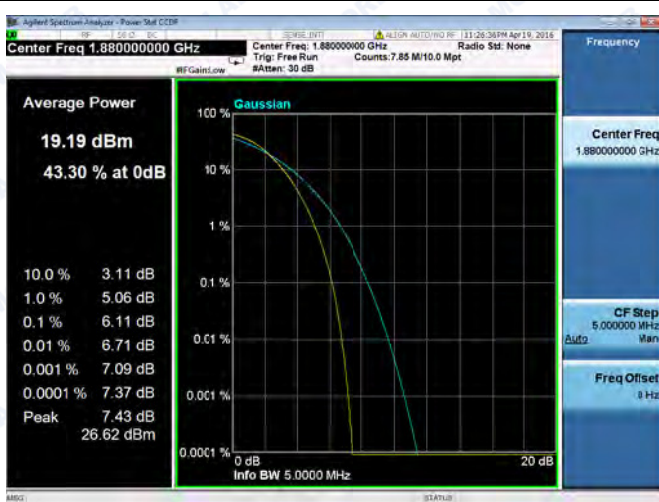
Spectrum Plot of Worst Value**1.4MHz/QPSK****1.4MHz/16QAM****Spectrum Plot of Worst Value****3MHz/QPSK****3MHz/16QAM**



REPORT No.: SZ16030142W05

LTE Band 2 Middle channel

Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18900	1880.0	5.37	5.80	18900	1880.0	4.68	6.11

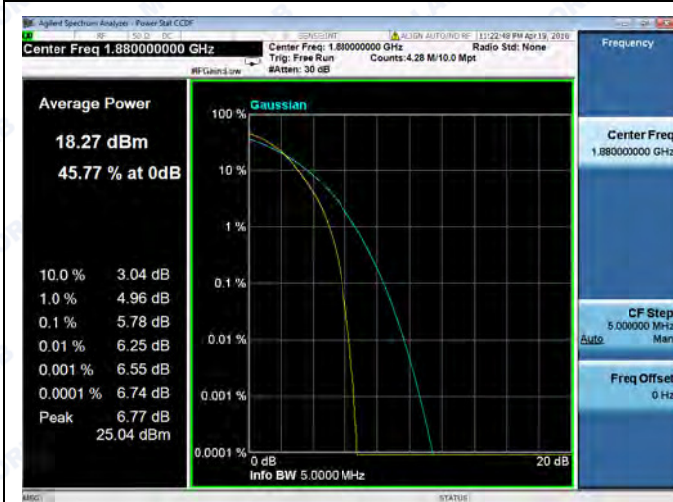
Spectrum Plot of Worst Value**5MHz/QPSK****5MHz/16QAM****Spectrum Plot of Worst Value****10MHz/QPSK****10MHz/16QAM**



REPORT No.: SZ16030142W05

LTE Band 2 Middle channel

Channel Bandwidth: 15MHz				Channel Bandwidth: 20MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18900	1880.0	5.78	6.83	18900	1880.0	6.47	7.26

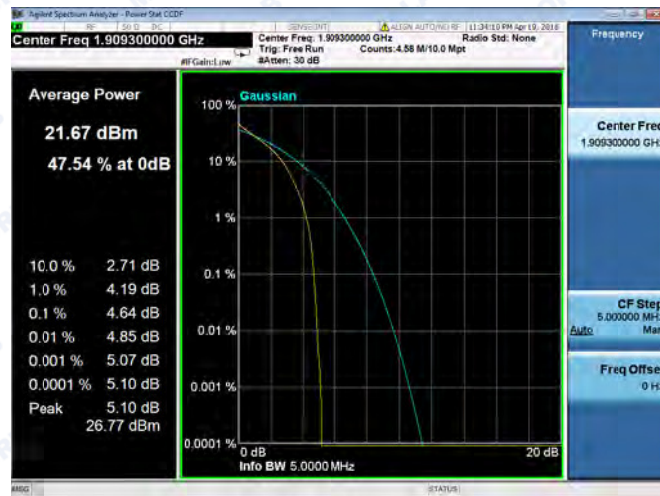
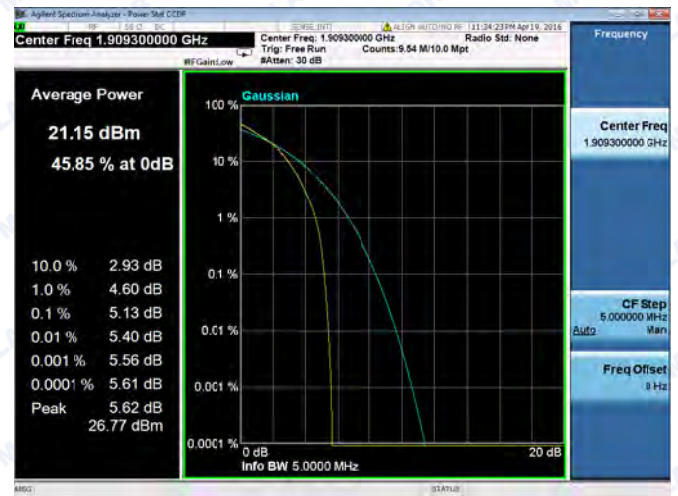
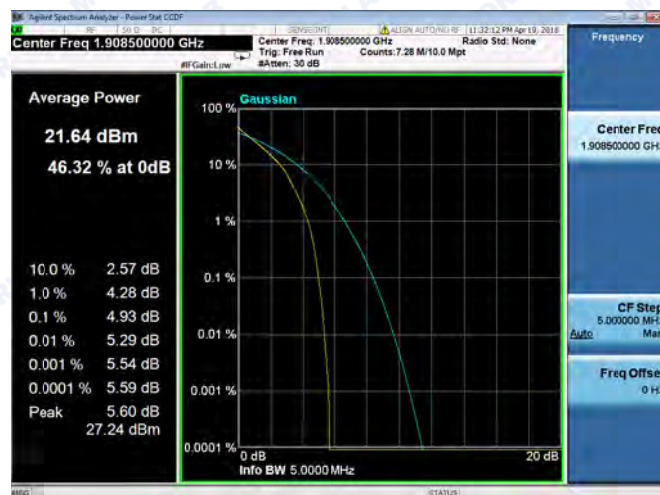
Spectrum Plot of Worst Value**15MHz/QPSK****15MHz/16QAM****Spectrum Plot of Worst Value****20MHz/QPSK****20MHz/16QAM**



REPORT No.: SZ16030142W05

LTE Band 2 High channel

Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
19193	1909.3	4.64	5.13	19185	1908.5	4.93	5.60

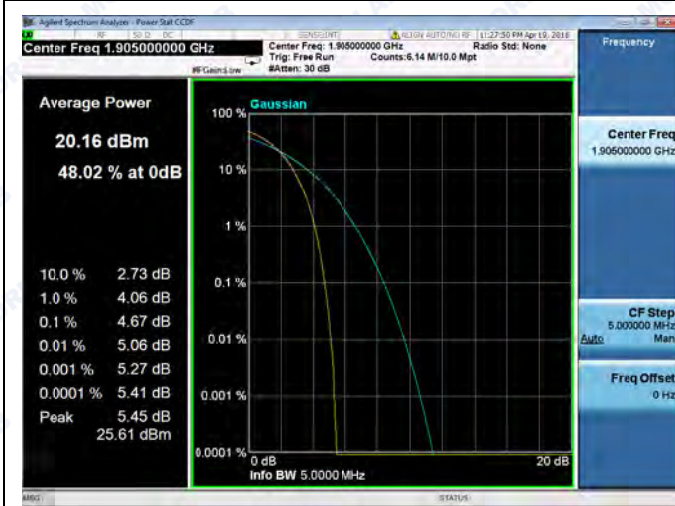
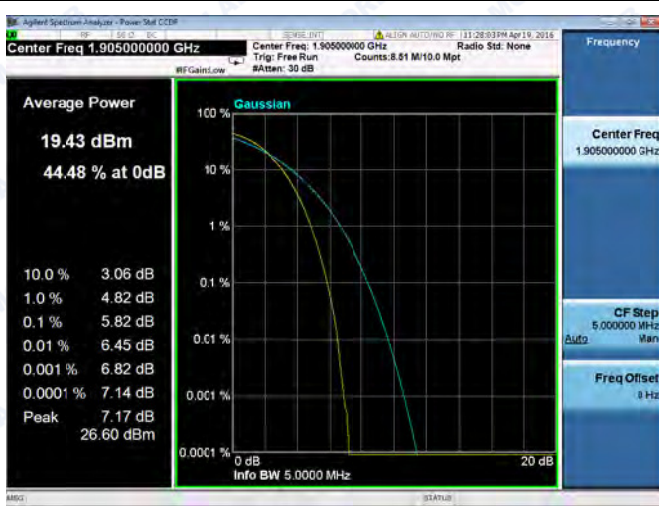
Spectrum Plot of Worst Value**1.4MHz/QPSK****1.4MHz/16QAM****Spectrum Plot of Worst Value****3MHz/QPSK****3MHz/16QAM**



REPORT No.: SZ16030142W05

LTE Band 2 High channel

Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
19175	1907.5	5.11	5.72	19150	1905.0	4.67	5.82

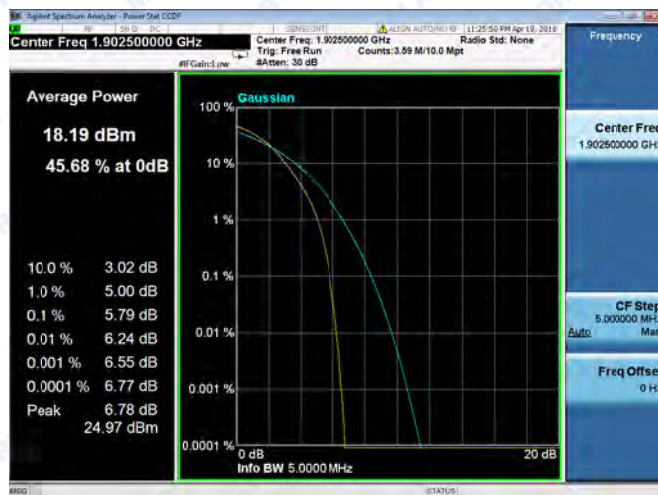
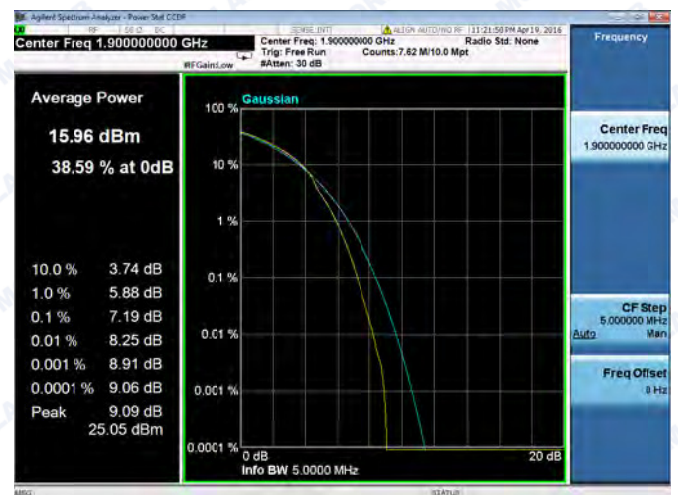
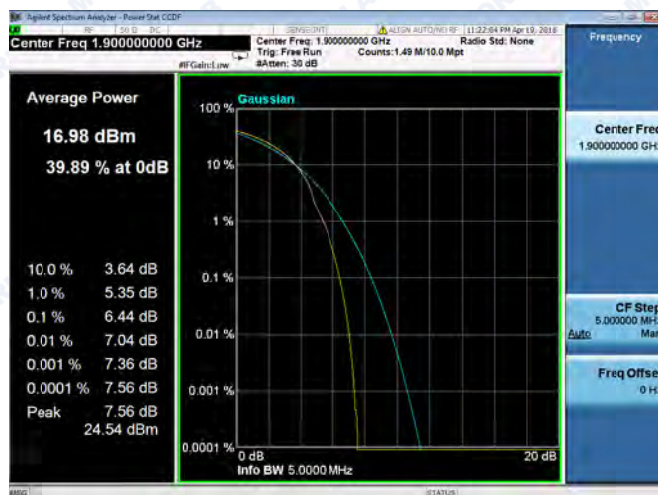
Spectrum Plot of Worst Value**5MHz/QPSK****5MHz/16QAM****Spectrum Plot of Worst Value****10MHz/QPSK****10MHz/16QAM**



REPORT No.: SZ16030142W05

LTE Band 2 High channel

Channel Bandwidth: 15MHz				Channel Bandwidth: 20MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
19125	1902.5	5.79	6.90	19100	1900.0	6.44	7.19

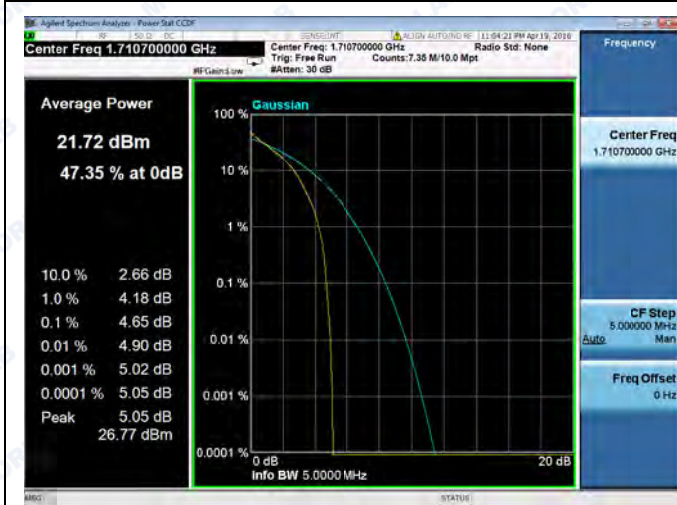
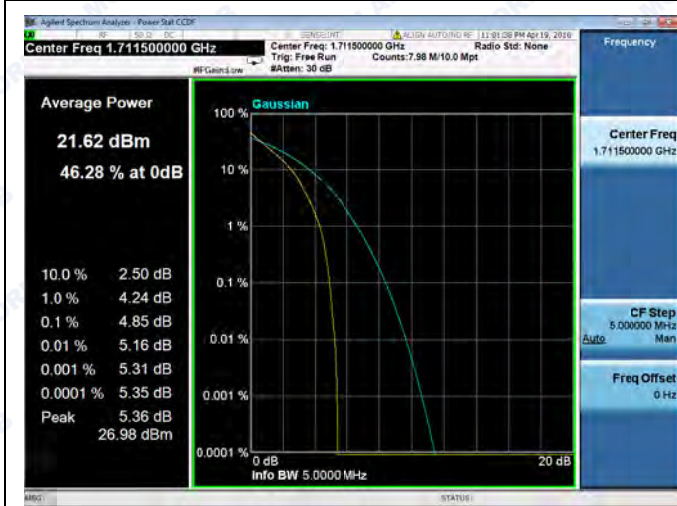
Spectrum Plot of Worst Value**15MHz/QPSK****15MHz/16QAM****Spectrum Plot of Worst Value****20MHz/QPSK****20MHz/16QAM**



REPORT No.: SZ16030142W05

LTE Band 4 Low channel

Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
19957	1710.7	4.65	5.70	19965	1711.5	4.85	5.76

Spectrum Plot of Worst Value (Low channel)**1.4MHz/QPSK****1.4MHz/16QAM****Spectrum Plot of Worst Value****3MHz/QPSK****3MHz/16QAM**



REPORT No.: SZ16030142W05

LTE Band 4 Low channel

Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
19975	1712.5	5.05	5.89	20000	1715.0	4.65	6.10

Spectrum Plot of Worst Value**5MHz/QPSK****5MHz/16QAM****Spectrum Plot of Worst Value****10MHz/QPSK****10MHz/16QAM**



REPORT No.: SZ16030142W05

LTE Band 4 Low channel

Channel Bandwidth: 15MHz				Channel Bandwidth: 20MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20025	1717.5	5.77	6.80	20050	1720.0	6.47	7.22

Spectrum Plot of Worst Value

15MHz/QPSK



15MHz/16QAM



Spectrum Plot of Worst Value

20MHz/QPSK



20MHz/16QAM

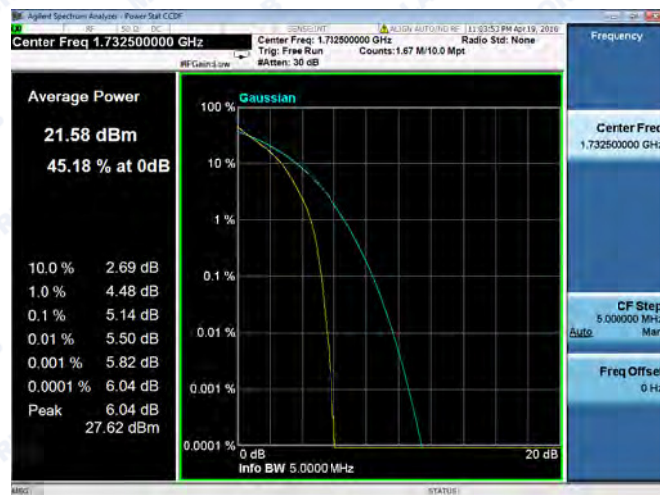
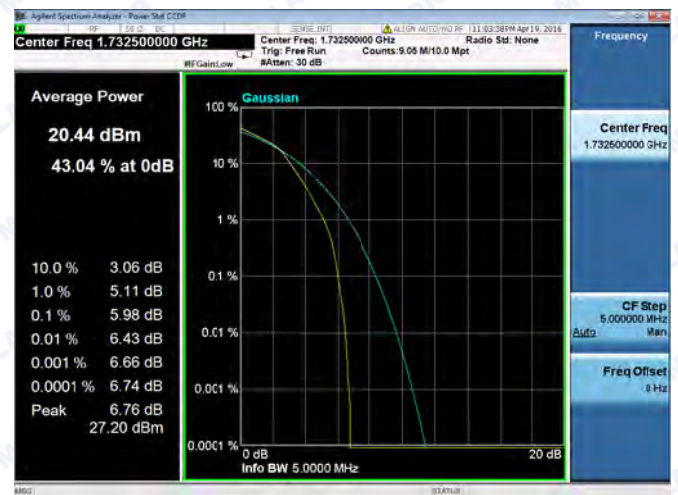
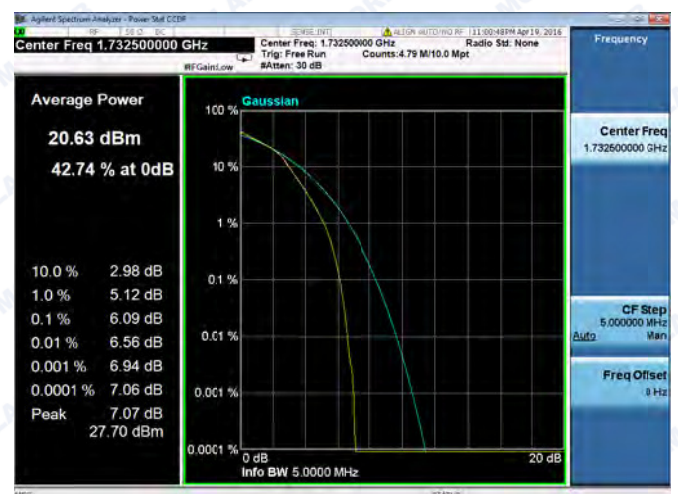




REPORT No.: SZ16030142W05

LTE Band 4 Middle channel

Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20175	1732.5	5.14	5.98	20175	1732.5	5.26	6.09

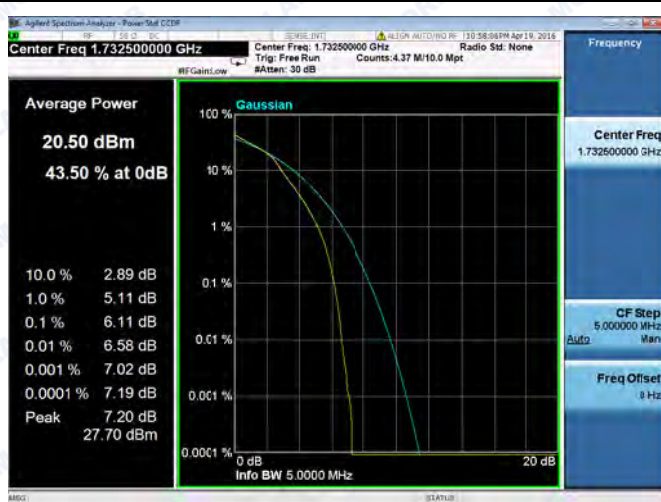
Spectrum Plot of Worst Value**1.4MHz/QPSK****1.4MHz/16QAM****Spectrum Plot of Worst Value****3MHz/QPSK****3MHz/16QAM**



REPORT No.: SZ16030142W05

LTE Band 4 Middle channel

Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20175	1732.5	5.28	6.11	20175	1732.5	4.65	6.15

Spectrum Plot of Worst Value**5MHz/QPSK****5MHz/16QAM****Spectrum Plot of Worst Value****10MHz/QPSK****10MHz/16QAM**



REPORT No.: SZ16030142W05

LTE Band 4 Middle channel

Channel Bandwidth: 15MHz				Channel Bandwidth: 20MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20175	1732.5	5.77	6.74	20175	1732.5	6.50	7.20

Spectrum Plot of Worst Value**15MHz/QPSK****15MHz/16QAM****Spectrum Plot of Worst Value****20MHz/QPSK****20MHz/16QAM**