



REPORT No.: SZ18050200W08

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	3.8V	-30	8.55	PASS
100		-20	-13.67	
100		-10	5.82	
100		0	7.73	
100		+10	6.55	
100		+20	5.47	
100		+30	-14.9	
100		+40	6.82	
100		+50	5.77	
115	4.35V	+20	-13.75	
85	3.6V	+20	8.9	

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	3.8V	-30	12.6	PASS
100		-20	-9.62	
100		-10	9.87	
100		0	11.78	
100		+10	10.6	
100		+20	9.52	
100		+30	-10.85	
100		+40	10.87	
100		+50	9.82	
115	4.35V	+20	-9.7	
85	3.6V	+20	12.95	



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LTE Band 7 – QPSK - Channel 21100 – Frequency 2535MHz – RB 25/0
Limit: 2535MHz*2.5ppm=6337.5Hz

Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Result
100	3.8V	-30	10.94	PASS
100		-20	-11.28	
100		-10	8.21	
100		0	10.12	
100		+10	8.94	
100		+20	7.86	
100		+30	-12.51	
100		+40	9.21	
100		+50	8.16	
115	4.35V	+20	-11.36	
85	3.6V	+20	11.29	

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	3.8V	-30	11.89	PASS
100		-20	-10.33	
100		-10	9.16	
100		0	11.07	
100		+10	9.89	
100		+20	8.81	
100		+30	-11.56	
100		+40	10.16	
100		+50	9.11	
115	4.35V	+20	-10.41	
85	3.6V	+20	12.24	

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LTE Band 17 – QPSK - Channel 23790 – Frequency 710MHz – RB 25/0
Limit: 710MHz*2.5ppm=1775Hz

Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Result
100	3.8V	-30	10.34	PASS
100		-20	-11.88	
100		-10	7.61	
100		0	9.52	
100		+10	8.34	
100		+20	7.26	
100		+30	-13.11	
100		+40	8.61	
100		+50	7.56	
115	4.35V	+20	-11.96	
85	3.6V	+20	10.69	

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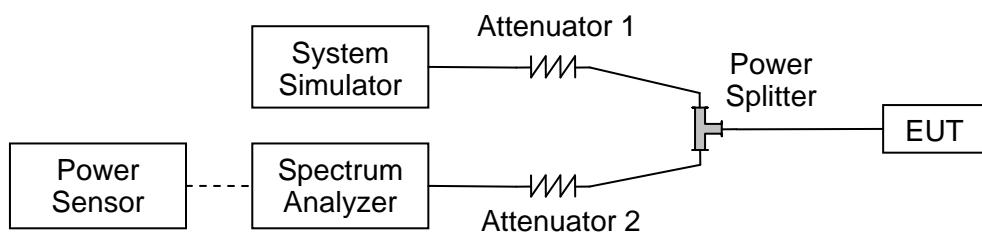
2.4. Peak to Average Radio

2.4.1. Requirement

According to FCC section 24.232(d), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

2.4.2. Test Description

A. Test Set:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.4.3. Test procedure

KDB 971168 D01v03 Section 5.7 and ANSI/TIA-603-E-2016.

2.4.4. Test Result

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

**LTE Band 2, BW: 1.4MHz**

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18607	1850.7	4.86	5.66
18900	1880.0	4.93	5.67
19192	1909.2	4.63	5.48

LTE Band 2, BW: 3MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18615	1851.5	4.95	5.75
18900	1880.0	5.06	5.81
19184	1908.4	4.82	5.64

LTE Band 2, BW: 5MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18625	1852.5	5.28	5.92
18900	1880.0	5.35	6.04
19175	1907.5	5.18	5.90

LTE Band 2, BW: 10MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18650	1855.0	4.64	5.92
18900	1880.0	4.64	6.01
19150	1905.0	4.64	6.05

LTE Band 2, BW: 15MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18675	1857.5	5.75	6.71
18900	1880.0	5.75	6.66
19125	1902.5	5.76	6.81

LTE Band 2, BW: 20MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18700	1860.0	6.47	7.10
18900	1880.0	6.48	7.13
19100	1900.0	6.46	7.11



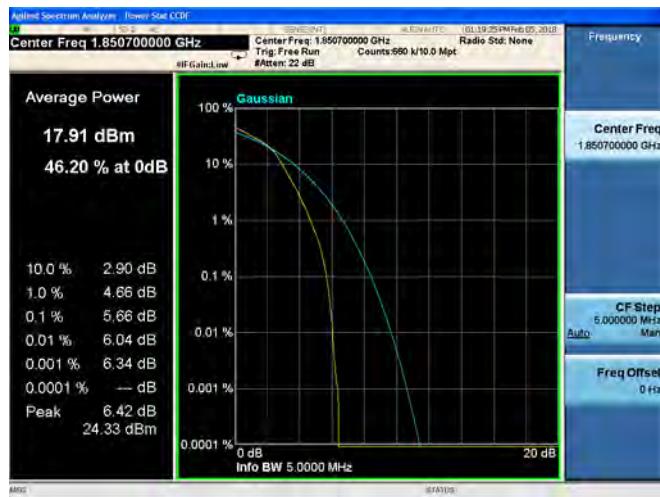
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LTE Band 2 Peak to Average Radio

1.4MHz/QPSK/Low CH



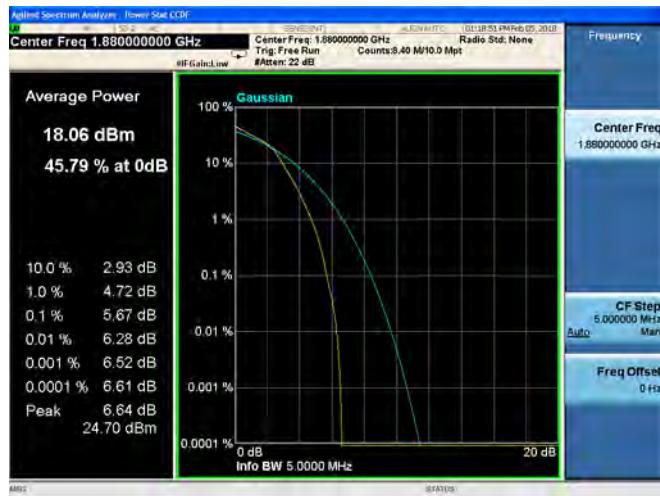
1.4MHz/16QAM/Low CH



1.4MHz/QPSK/Mid CH



1.4MHz/16QAM/Mid CH



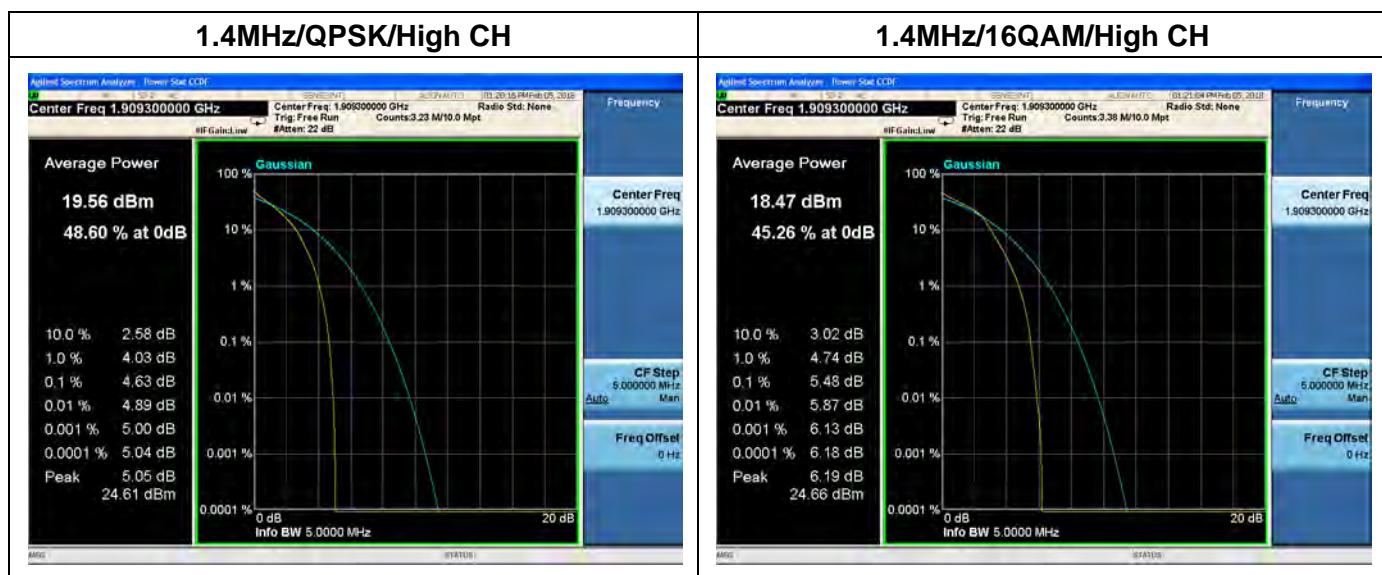
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3MHz/QPSK/Low CH	3MHz/16QAM/Low CH
<p>Average Power 18.89 dBm 48.09 % at 0dB</p> <p>10.0 % 2.37 dB 1.0 % 4.08 dB 0.1 % 4.95 dB 0.01 % 5.40 dB 0.001 % 5.62 dB 0.0001 % 5.73 dB Peak 5.76 dB 24.65 dBm</p>	<p>Average Power 17.90 dBm 45.71 % at 0dB</p> <p>10.0 % 2.84 dB 1.0 % 4.74 dB 0.1 % 5.75 dB 0.01 % 6.33 dB 0.001 % 6.69 dB 0.0001 % 6.85 dB Peak 6.87 dB 24.77 dBm</p>
3MHz/QPSK/Mid CH	3MHz/16QAM/Mid CH
<p>Average Power 19.10 dBm 47.86 % at 0dB</p> <p>10.0 % 2.41 dB 1.0 % 4.12 dB 0.1 % 5.06 dB 0.01 % 5.59 dB 0.001 % 5.90 dB 0.0001 % 5.98 dB Peak 6.01 dB 25.11 dBm</p>	<p>Average Power 18.07 dBm 45.37 % at 0dB</p> <p>10.0 % 2.84 dB 1.0 % 4.75 dB 0.1 % 5.81 dB 0.01 % 6.34 dB 0.001 % 6.70 dB 0.0001 % 6.83 dB Peak 6.86 dB 24.93 dBm</p>
3MHz/QPSK/High CH	3MHz/16QAM/High CH
<p>Average Power 19.67 dBm 47.63 % at 0dB</p> <p>10.0 % 2.45 dB 1.0 % 4.09 dB 0.1 % 4.82 dB 0.01 % 5.21 dB 0.001 % 5.45 dB 0.0001 % 5.55 dB Peak 5.69 dB 25.26 dBm</p>	<p>Average Power 18.63 dBm 44.55 % at 0dB</p> <p>10.0 % 2.92 dB 1.0 % 4.72 dB 0.1 % 5.64 dB 0.01 % 6.06 dB 0.001 % 6.25 dB 0.0001 % 6.35 dB Peak 6.38 dB 25.01 dBm</p>

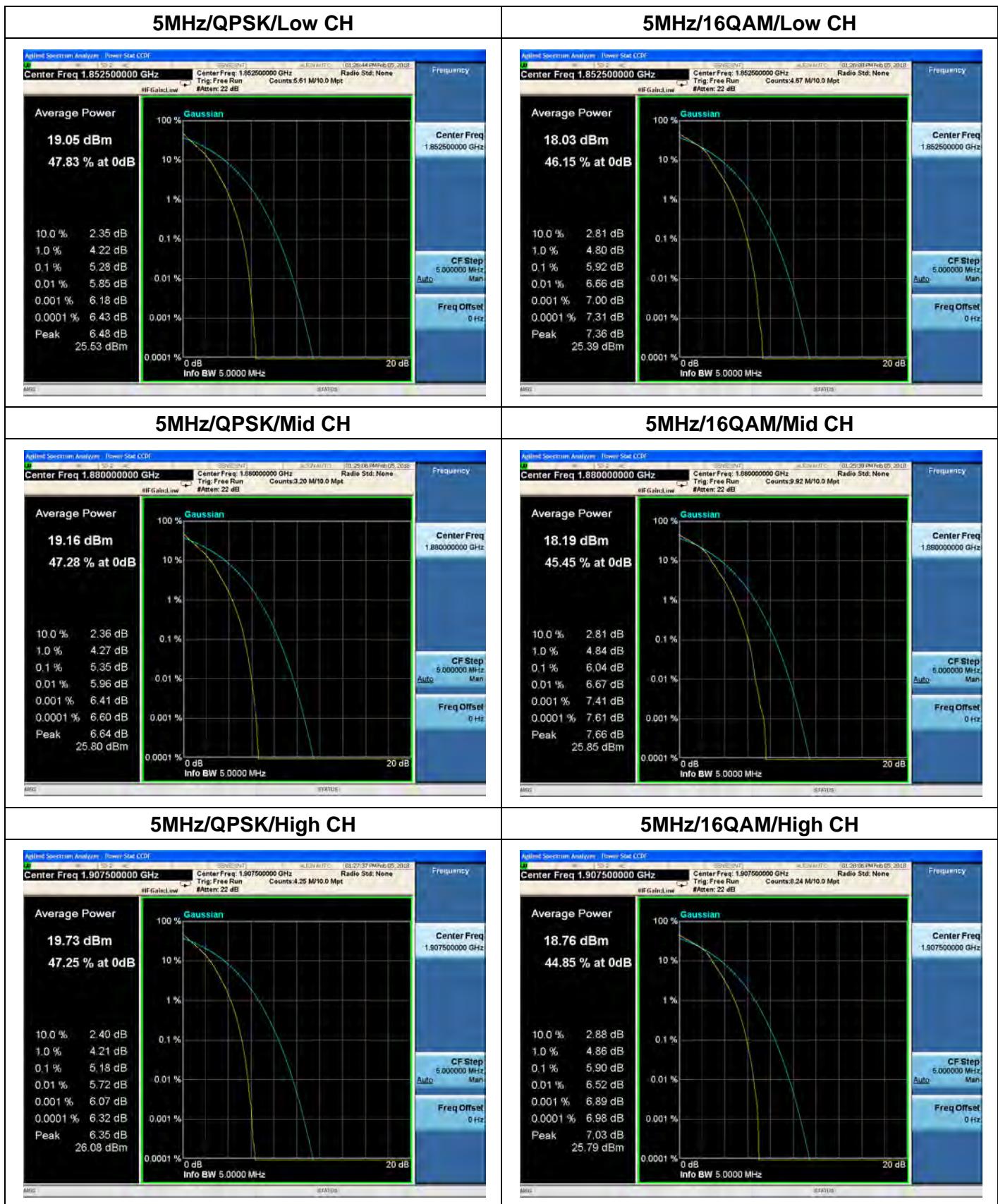
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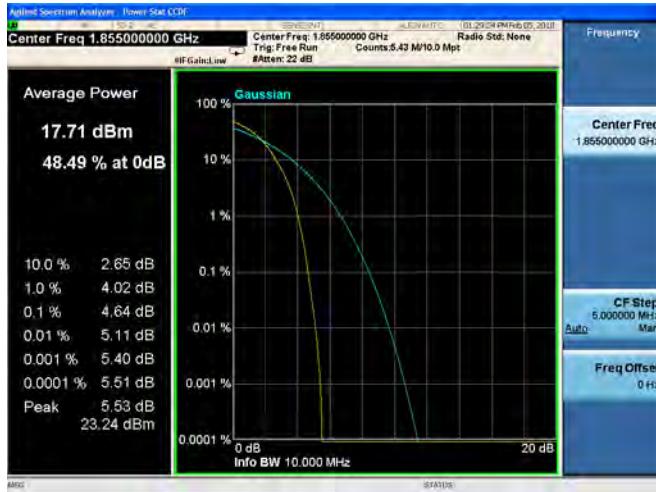
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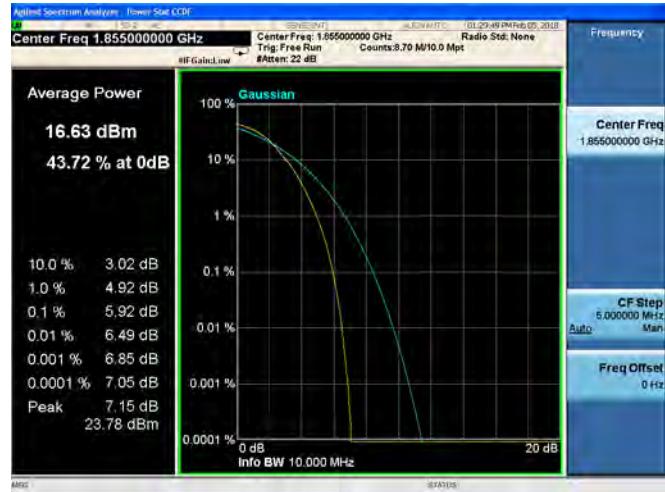


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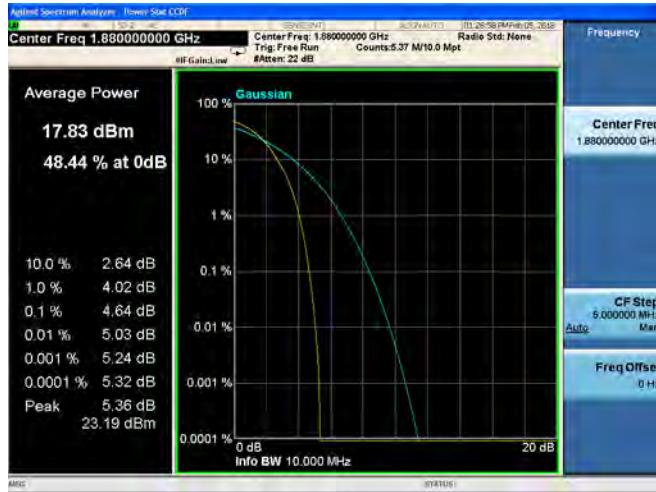
10MHz/QPSK/Low CH



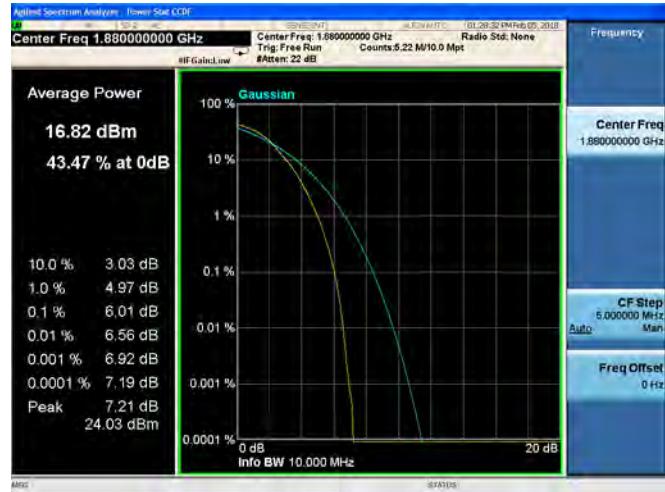
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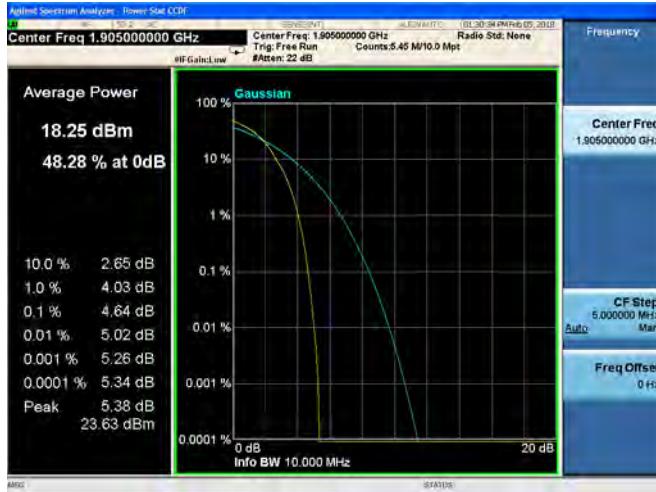
10MHz/QPSK/Mid CH



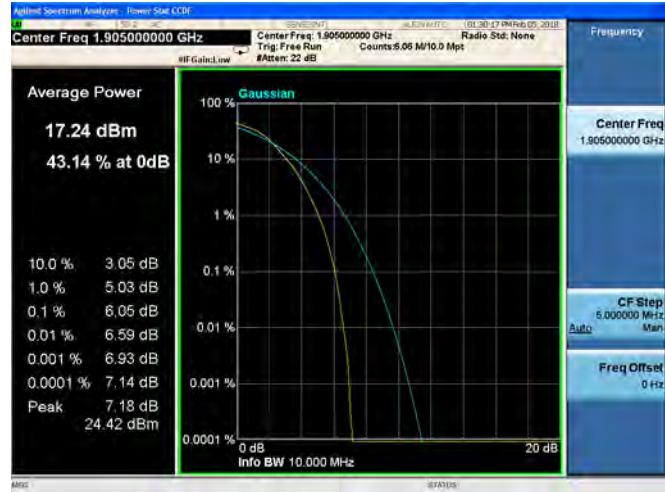
10MHz/16QAM/Mid CH



10MHz/QPSK/High CH



10MHz/16QAM/High CH



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15MHz/QPSK/Low CH



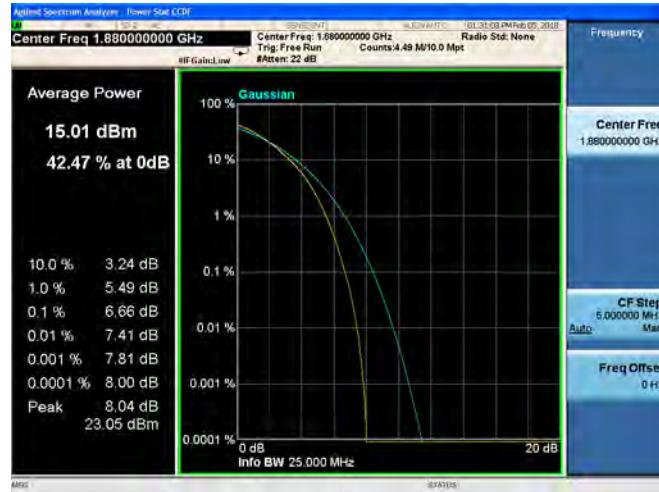
15MHz/16QAM/Low CH



15MHz/QPSK/Mid CH



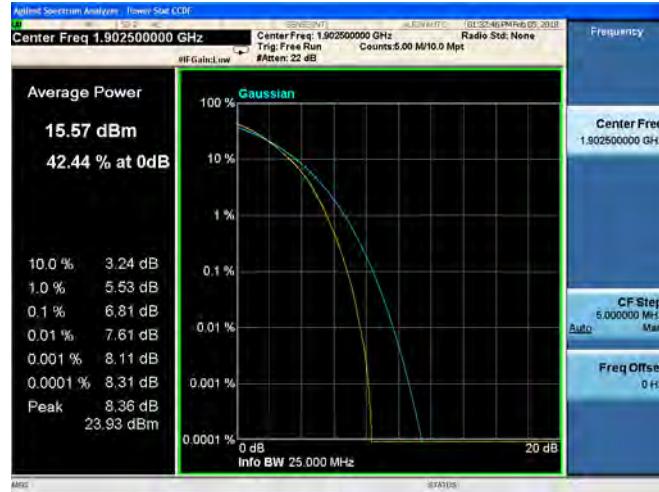
15MHz/16QAM/Mid CH



15MHz/QPSK/High CH



15MHz/16QAM/High CH



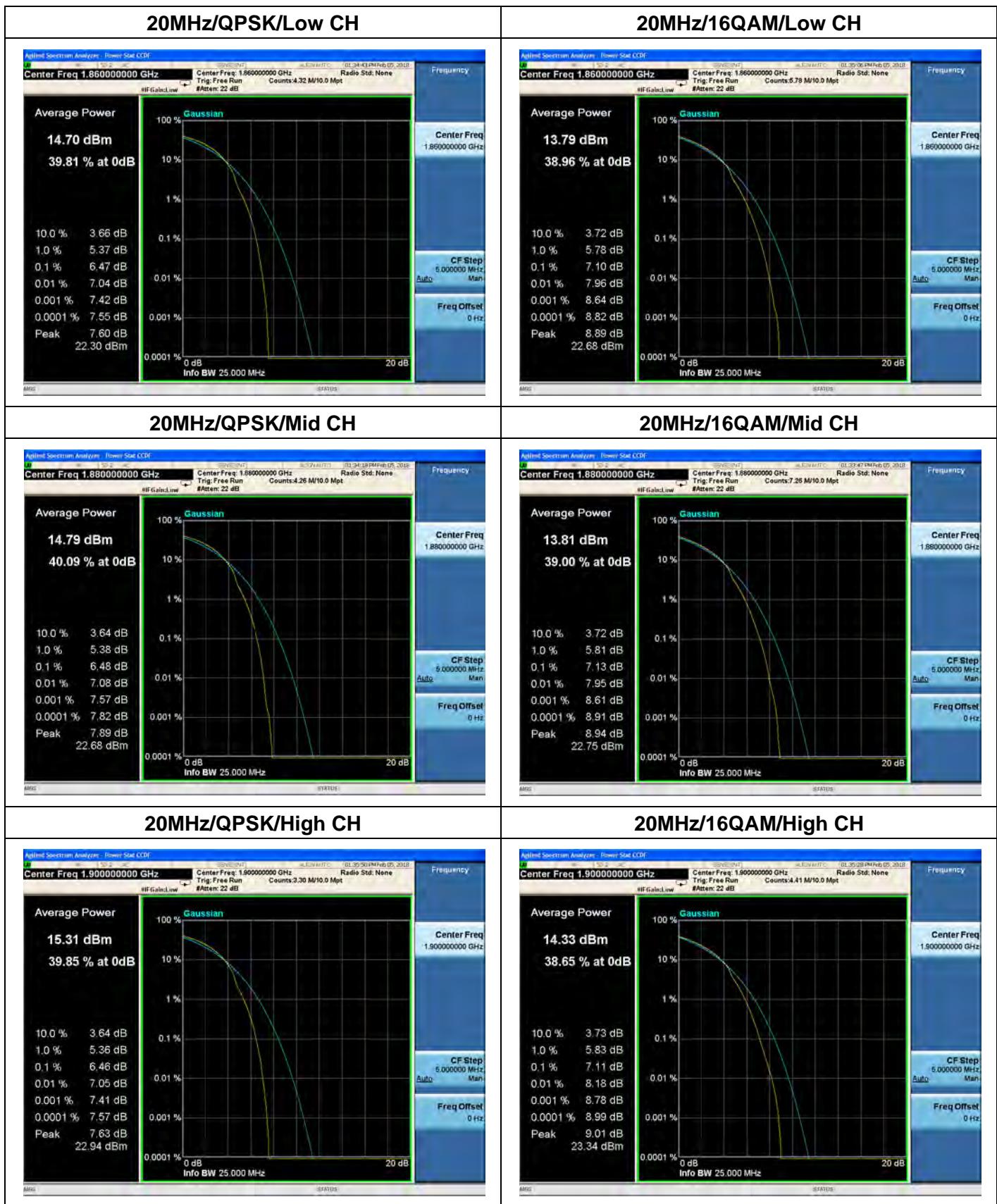
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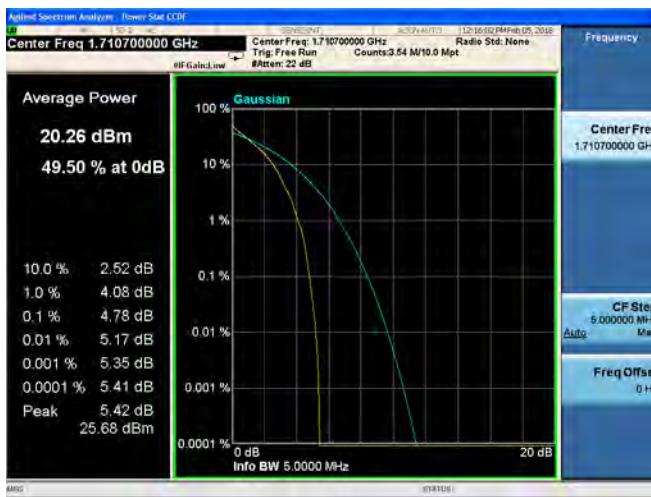
LTE Band 4, BW: 1.4MHz			
Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18607	1850.7	4.78	5.59
18900	1880.0	5.02	5.71
19192	1909.2	3.91	4.83
LTE Band 4, BW: 3MHz			
Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18615	1851.5	4.90	5.72
18900	1880.0	5.20	5.90
19184	1908.4	4.18	5.05
LTE Band 4, BW: 5MHz			
Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18625	1852.5	5.20	5.88
18900	1880.0	5.39	6.08
19175	1907.5	4.74	5.48
LTE Band 4, BW: 10MHz			
Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18650	1855.0	4.66	5.92
18900	1880.0	4.64	6.02
19150	1905.0	4.58	5.92
LTE Band 4, BW: 15MHz			
Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18675	1857.5	5.79	6.74
18900	1880.0	5.76	6.68
19125	1902.5	5.94	6.73
LTE Band 4, BW: 20MHz			
Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18700	1860.0	6.47	7.13
18900	1880.0	6.49	7.13
19100	1900.0	6.47	7.09



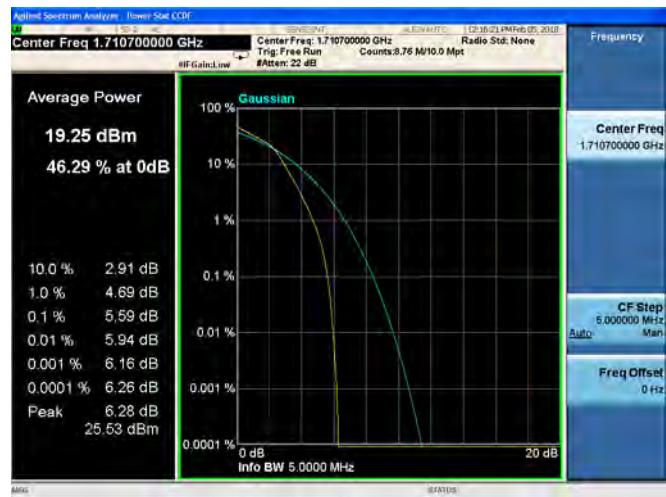
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LTE Band 4 Peak to Average Radio

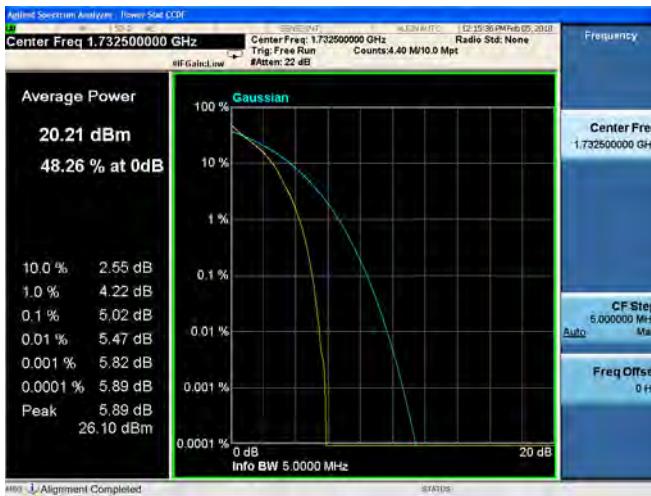
1.4MHz/QPSK/Low CH



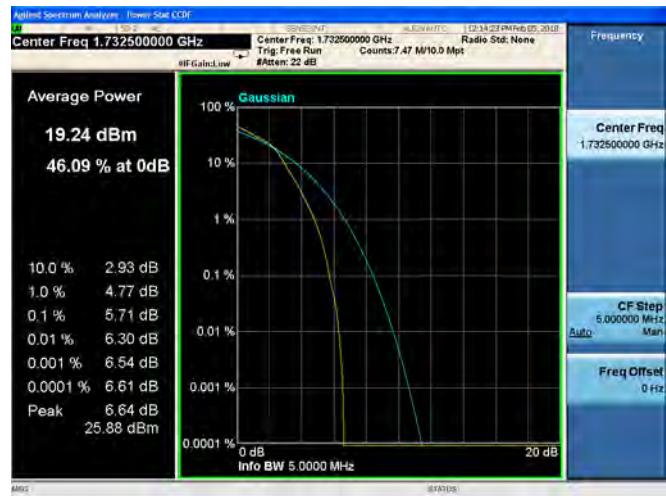
1.4MHz/16QAM/Low CH



1.4MHz/QPSK/Mid CH



1.4MHz/16QAM/Mid CH



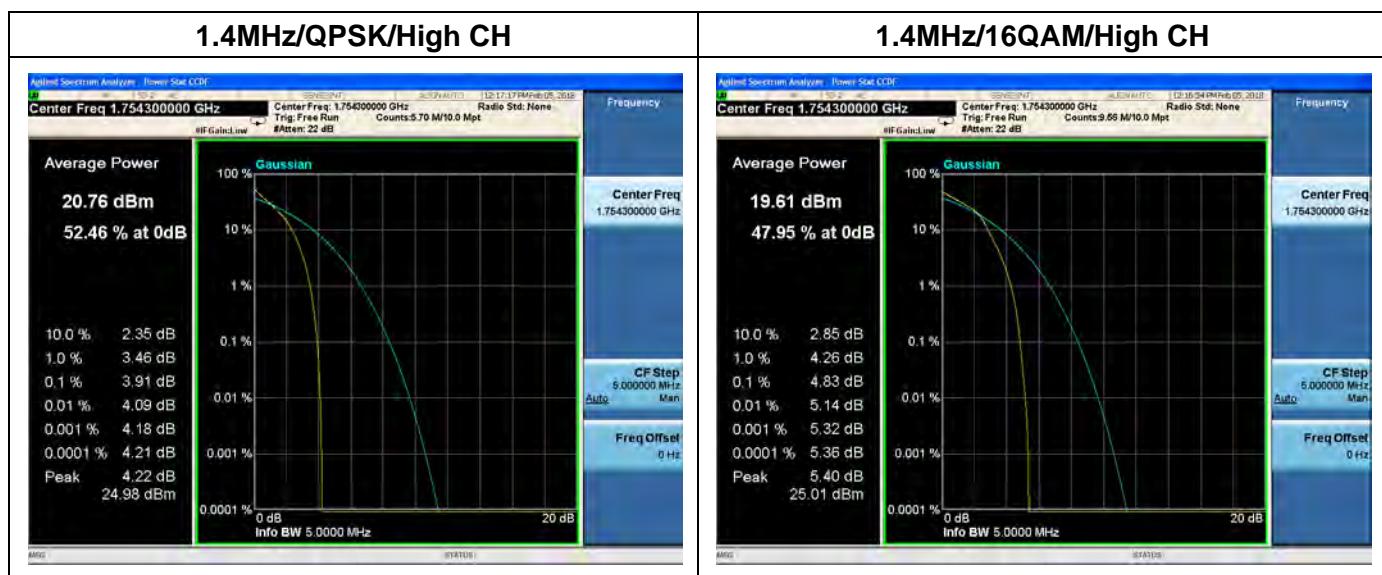
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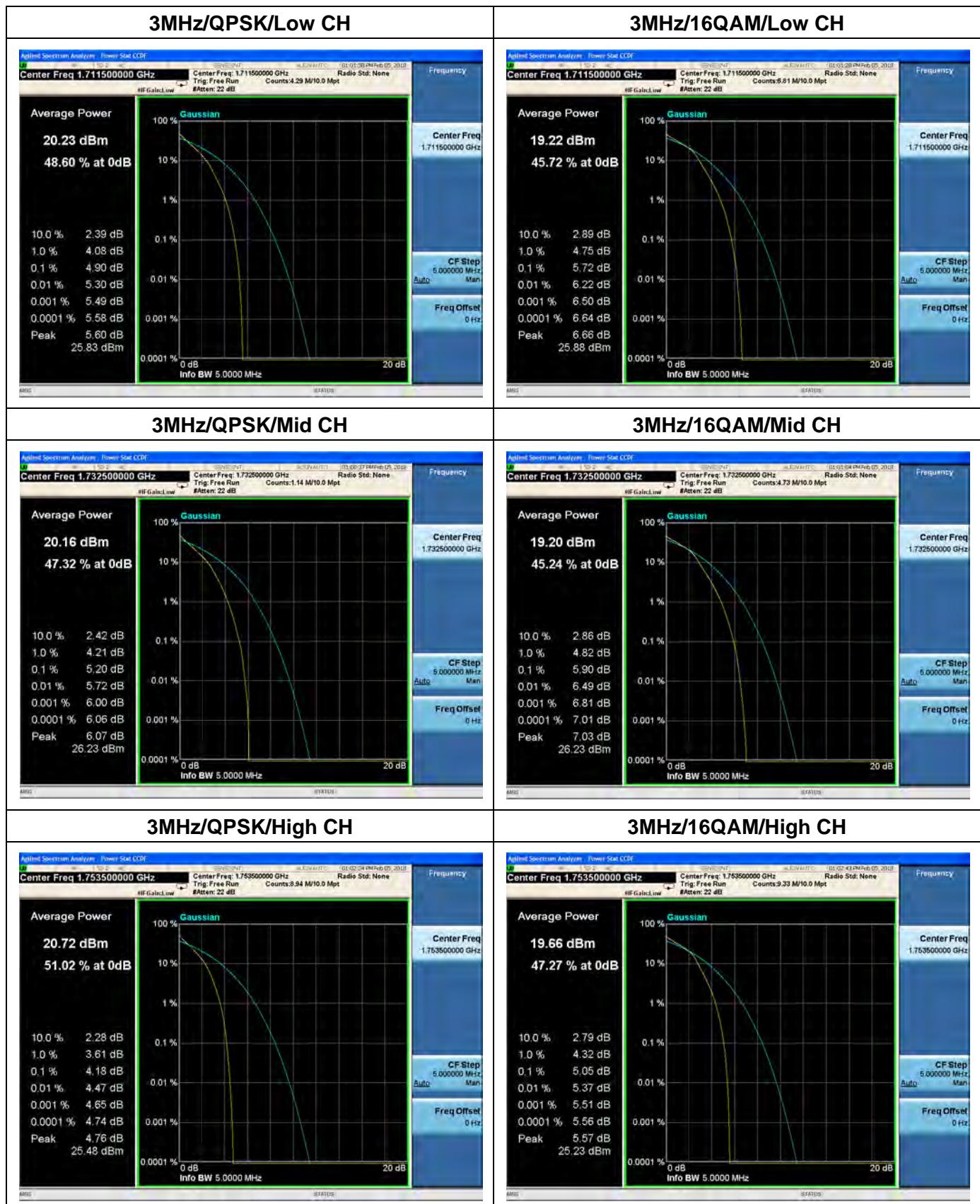
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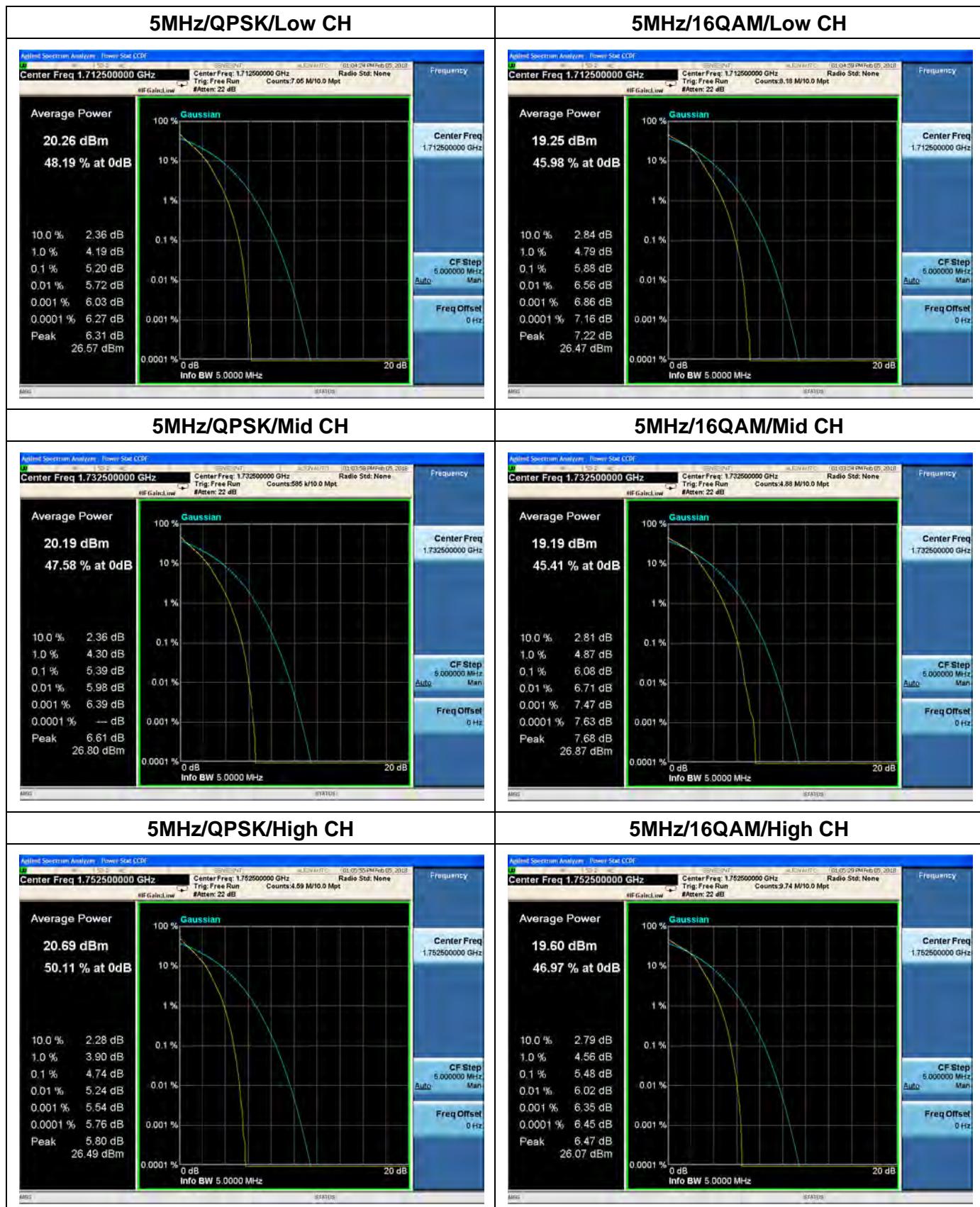
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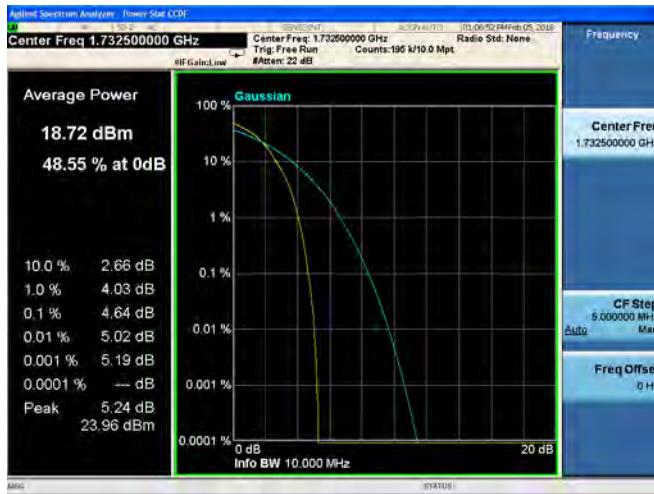
10MHz/QPSK/Low CH



10MHz/16QAM/Low CH



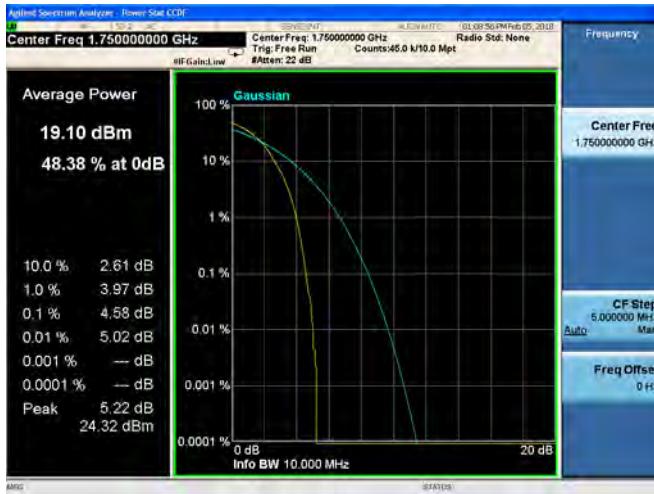
10MHz/QPSK/Mid CH



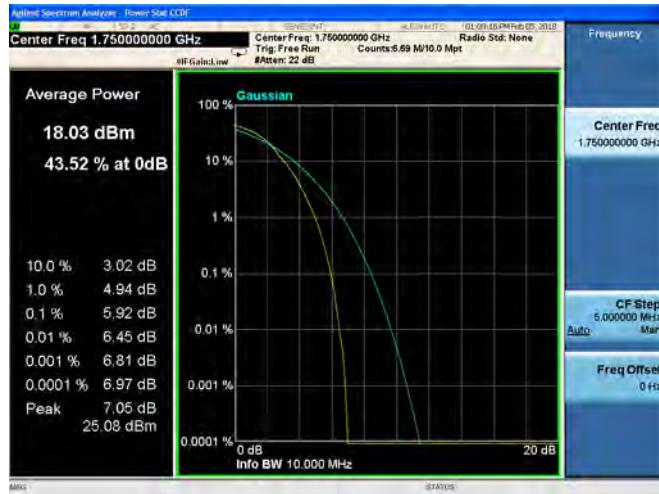
10MHz/16QAM/Mid CH



10MHz/QPSK/High CH



10MHz/16QAM/High CH



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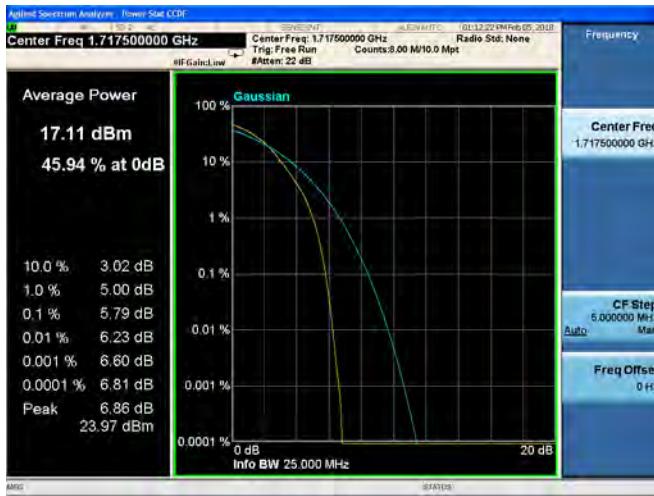
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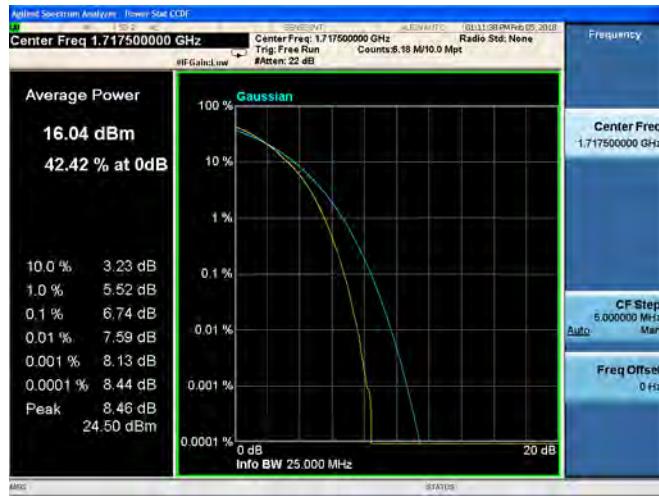


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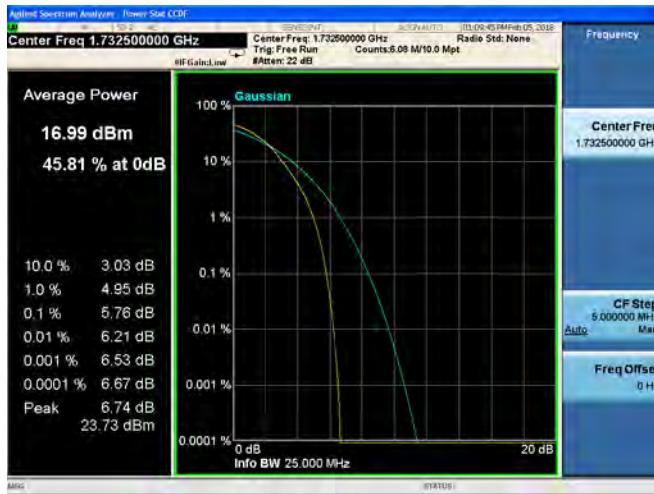
15MHz/QPSK/Low CH



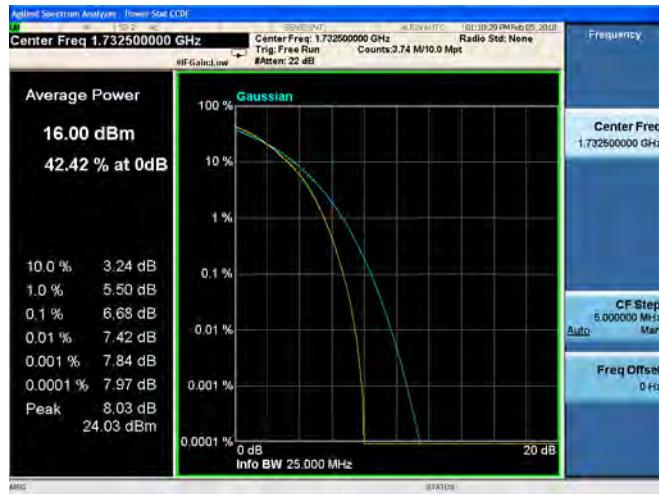
15MHz/16QAM/Low CH



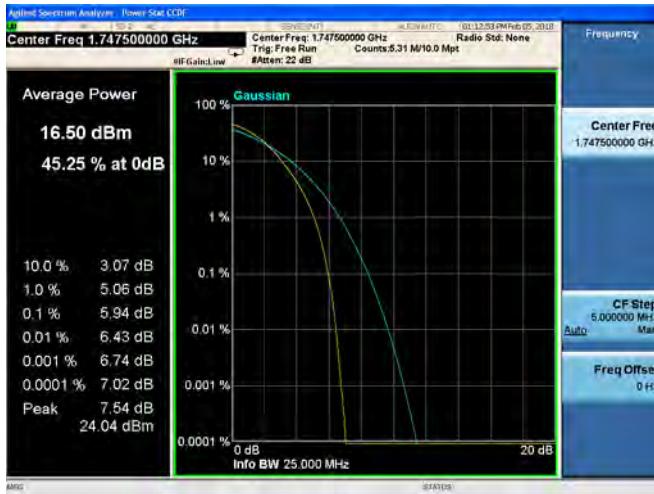
15MHz/QPSK/Mid CH



15MHz/16QAM/Mid CH



15MHz/QPSK/High CH



15MHz/16QAM/High CH



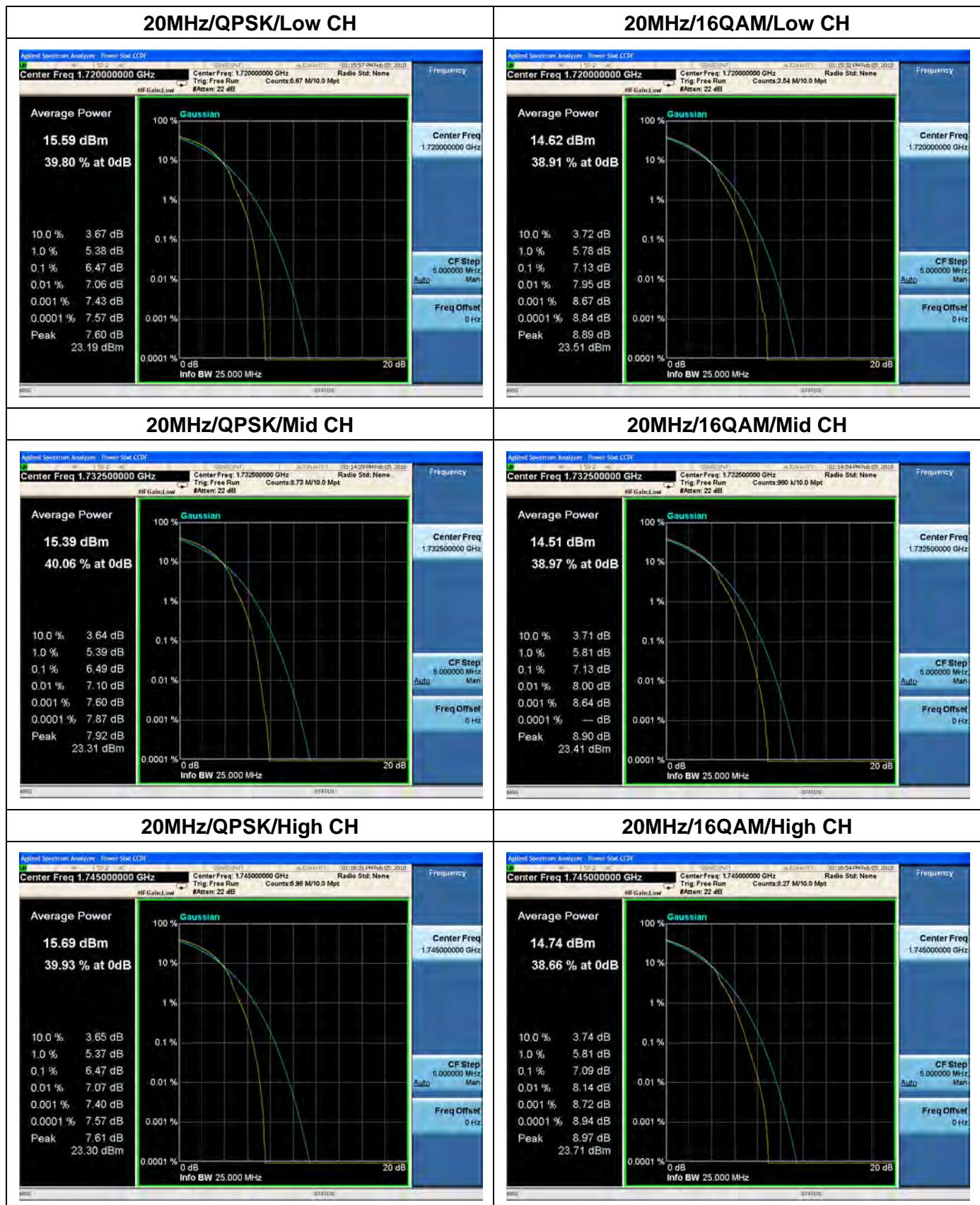
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LTE Band 7, BW: 5MHz			
Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
20775	2502.5	5.37	6.04
21100	2535.0	5.41	6.07
21425	2567.5	5.00	5.73
LTE Band 7, BW: 10MHz			
Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
20800	2505.0	4.69	6.03
21100	2535.0	4.68	6.06
21400	2565.0	4.63	5.92
LTE Band 7, BW: 15MHz			
Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
20825	2507.5	5.78	6.79
21100	2535.0	5.77	6.71
21375	2562.5	5.80	6.70
LTE Band 7, BW: 20MHz			
Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
20850	2510.0	6.47	7.13
21100	2535.0	6.49	7.17
21350	2560.0	6.48	7.05

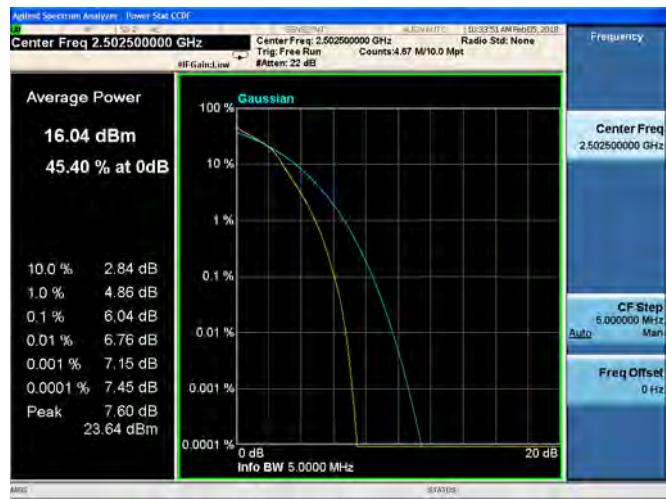
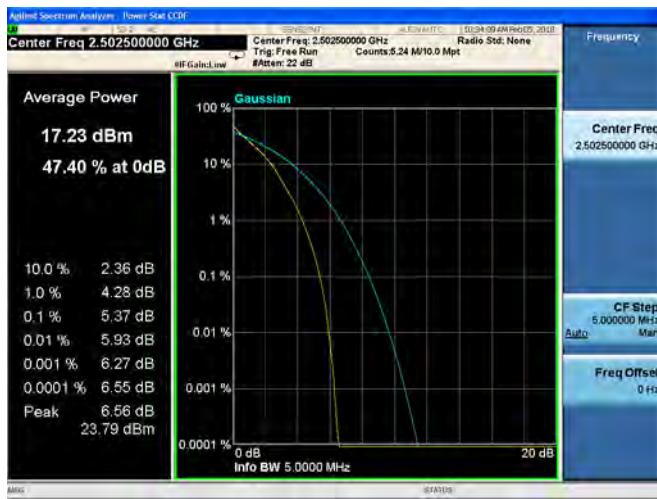


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LTE Band 7 Peak to Average Radio

5MHz/QPSK/Low CH

5MHz/16QAM/Low CH



5MHz/QPSK/Mid CH

5MHz/16QAM/Mid CH



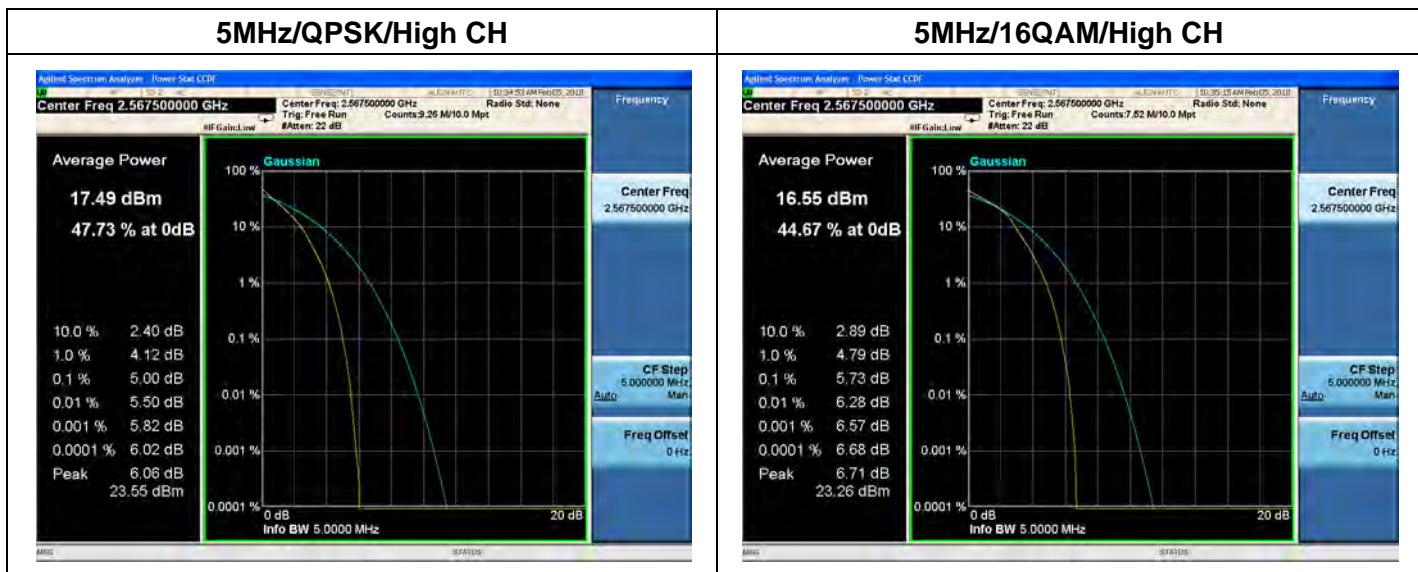
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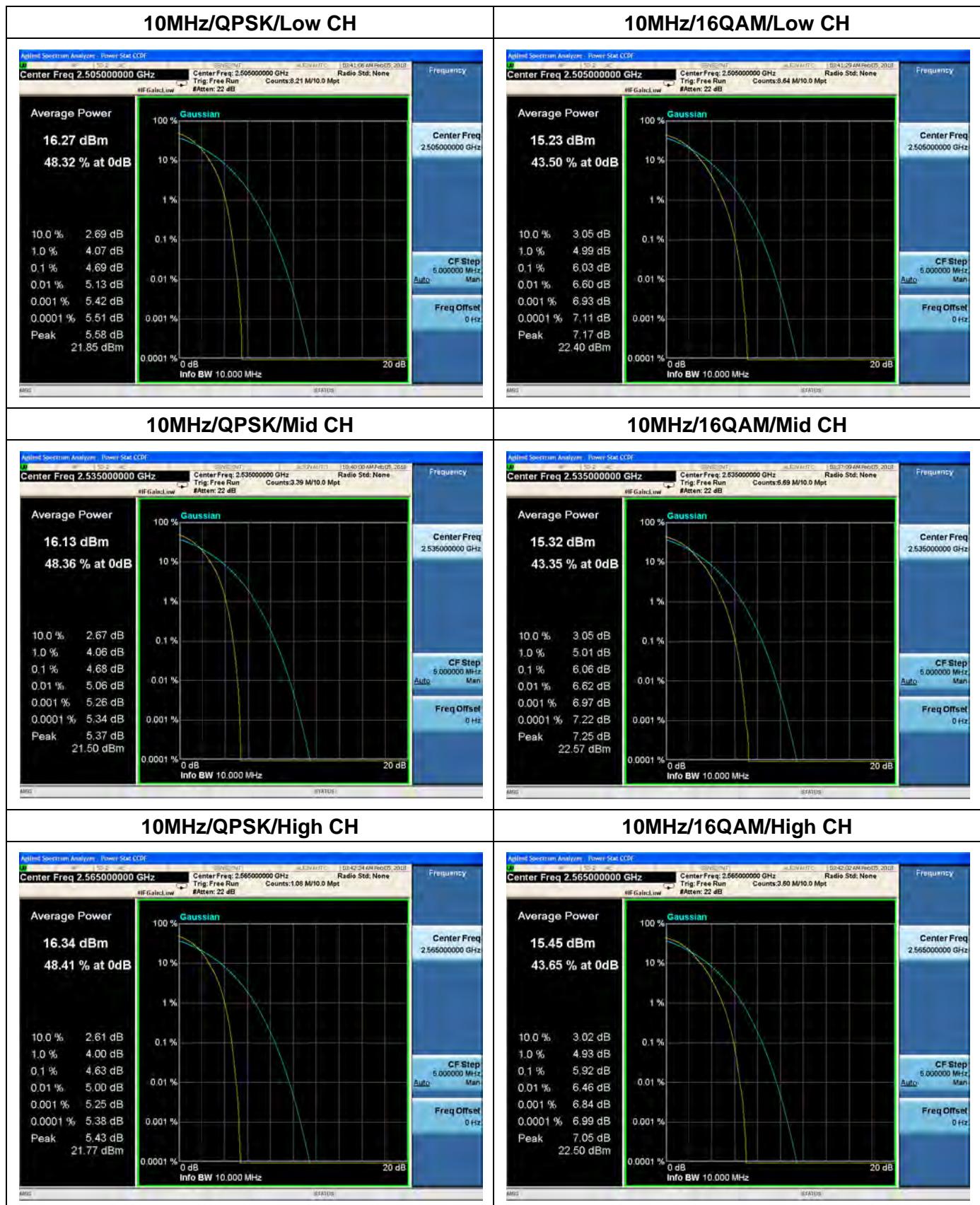
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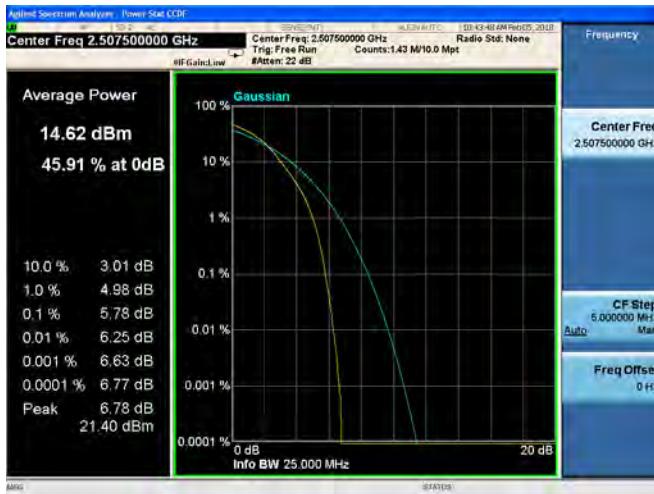
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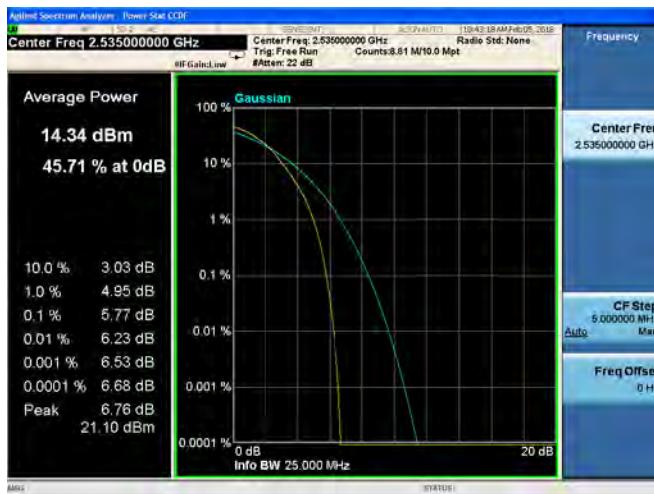
15MHz/QPSK/Low CH



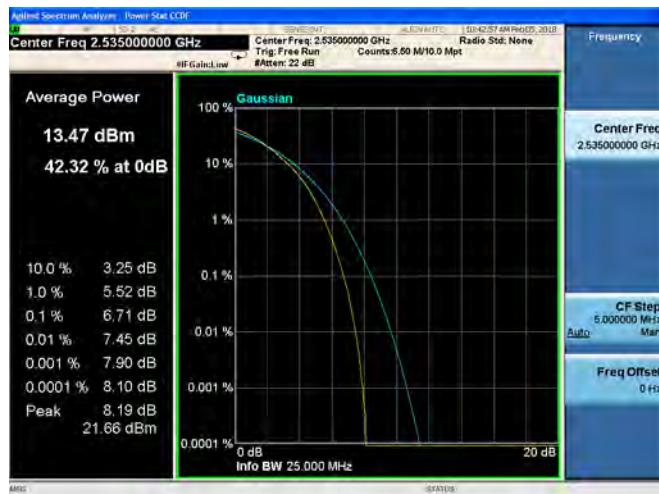
15MHz/16QAM/Low CH



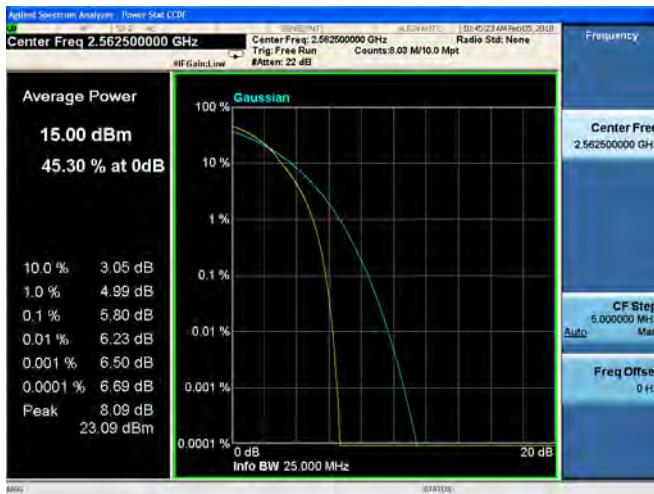
15MHz/QPSK/Mid CH



15MHz/16QAM/Mid CH



15MHz/QPSK/High CH



15MHz/16QAM/High CH



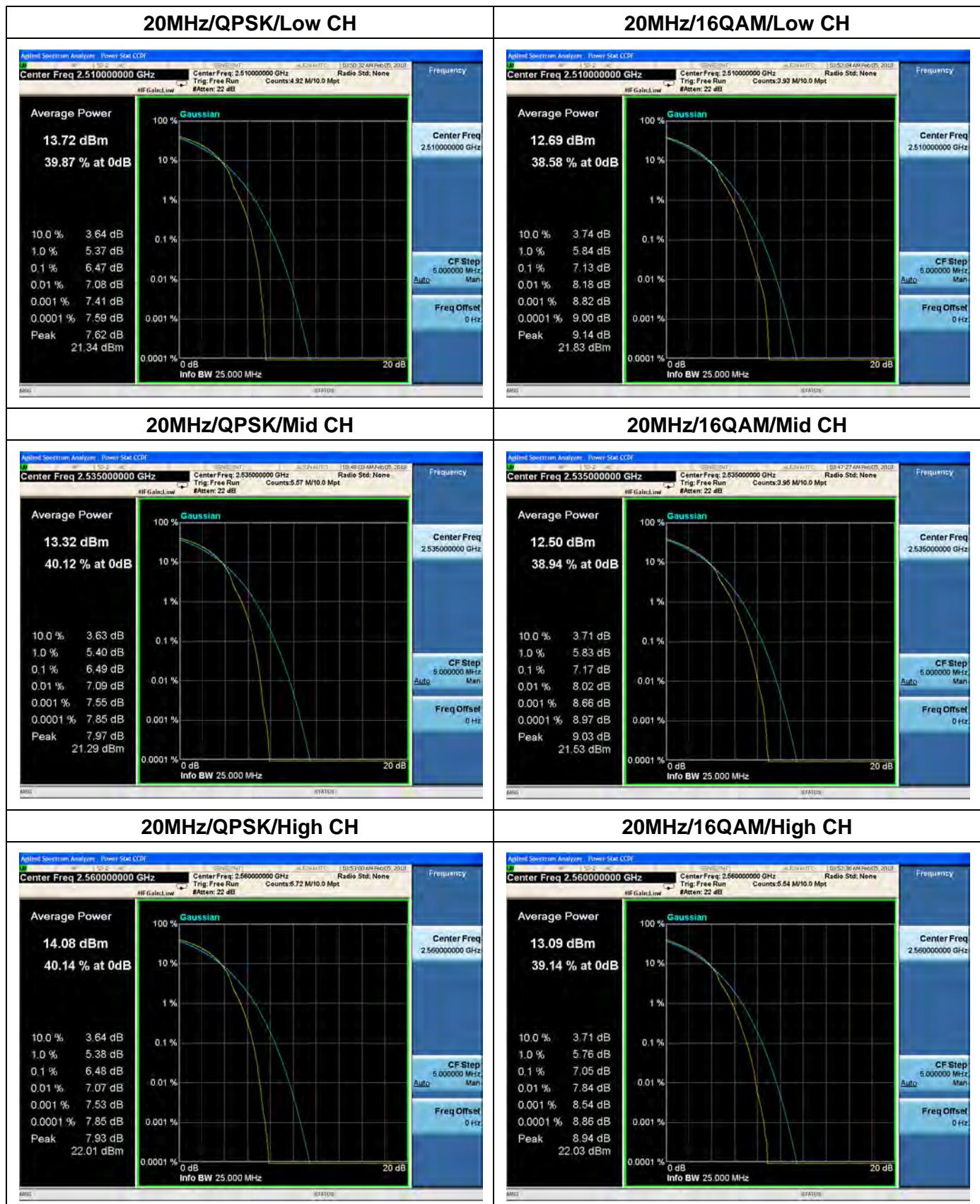
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**LTE Band 12, BW: 1.4MHz**

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
23017	699.7	6.40	7.21
23095	707.5	5.25	5.97
23173	715.3	4.68	5.48

LTE Band 12, BW: 3MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
23025	700.5	6.12	6.98
23095	707.5	5.30	6.08
23165	714.5	5.02	5.81

LTE Band 12, BW: 5MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
23035	701.5	5.79	6.52
23095	707.5	5.54	6.26
23165	714.5	5.55	6.30

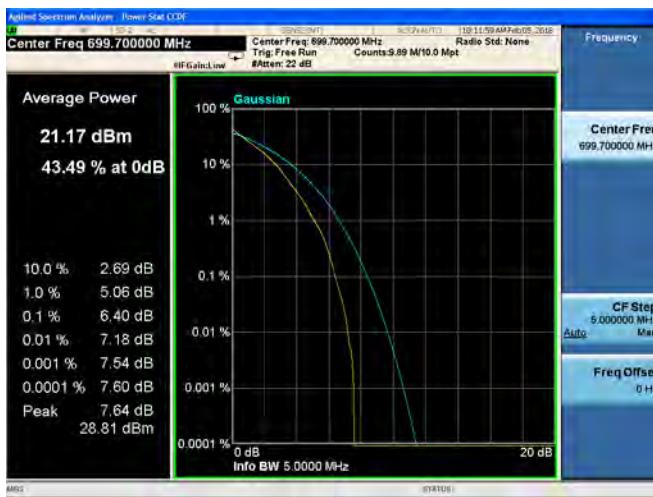
LTE Band 12, BW: 10MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
23060	704.0	4.59	5.99
23095	707.5	4.70	6.05
23130	711.0	4.74	6.29



LTE Band 12 Peak to Average Radio

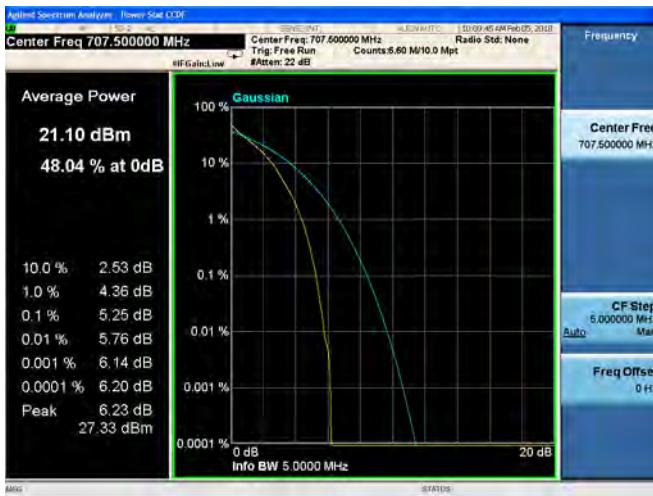
1.4MHz/QPSK/Low CH



1.4MHz/16QAM/Low CH

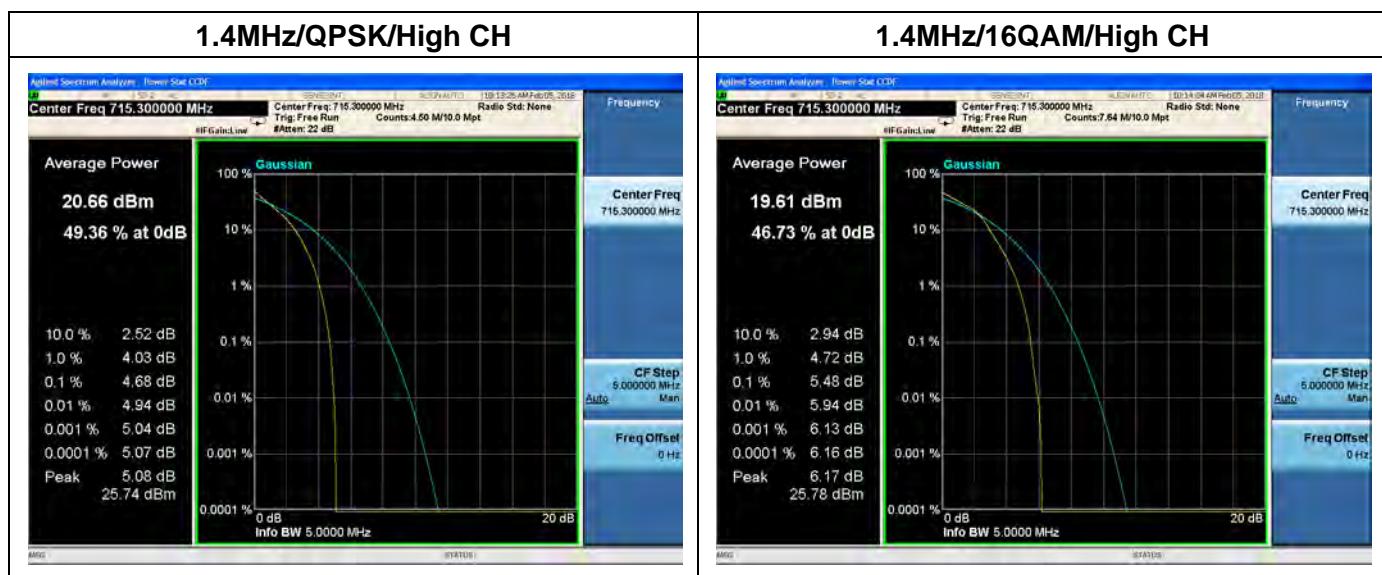


1.4MHz/QPSK/Mid CH



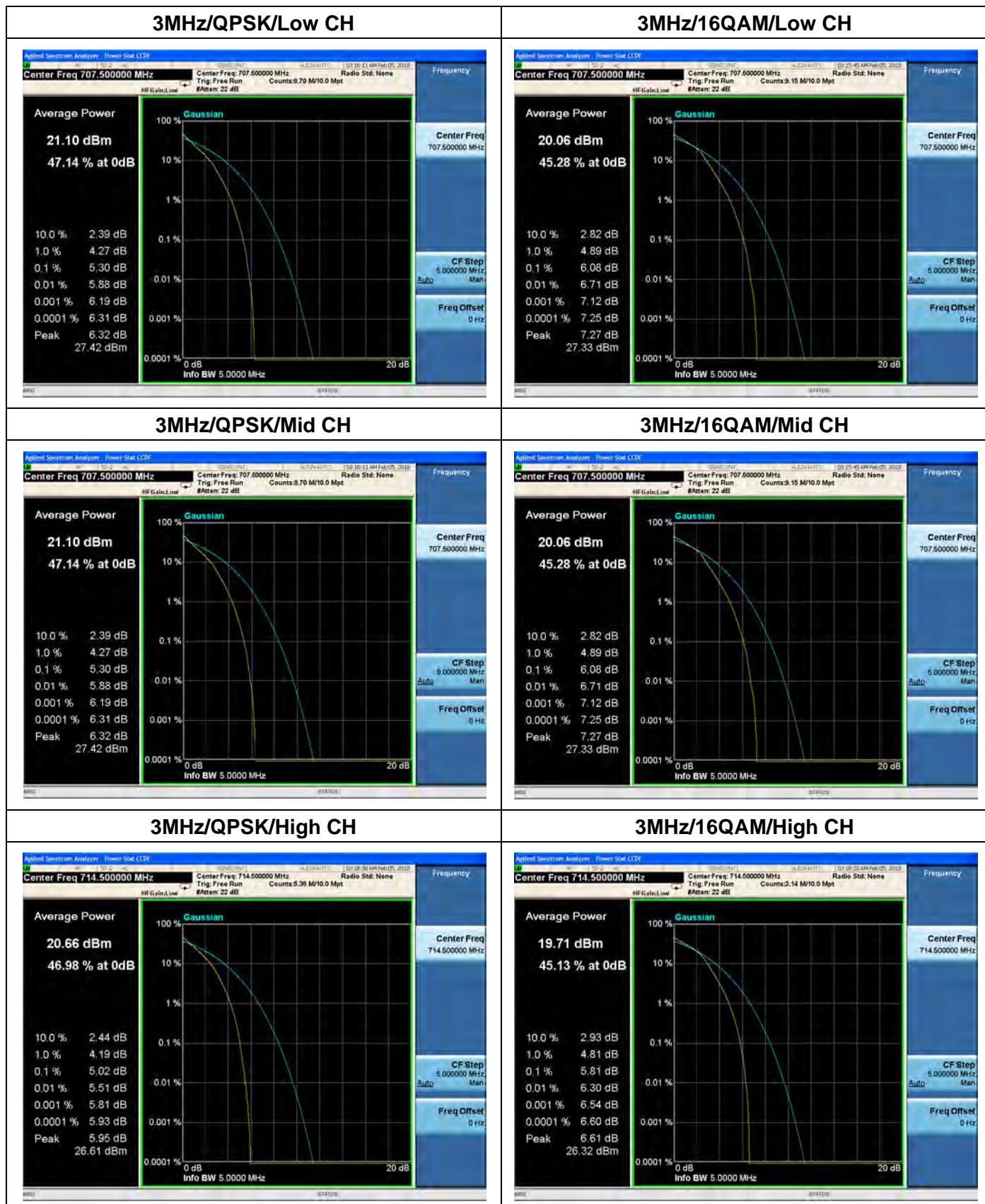
1.4MHz/16QAM/Mid CH







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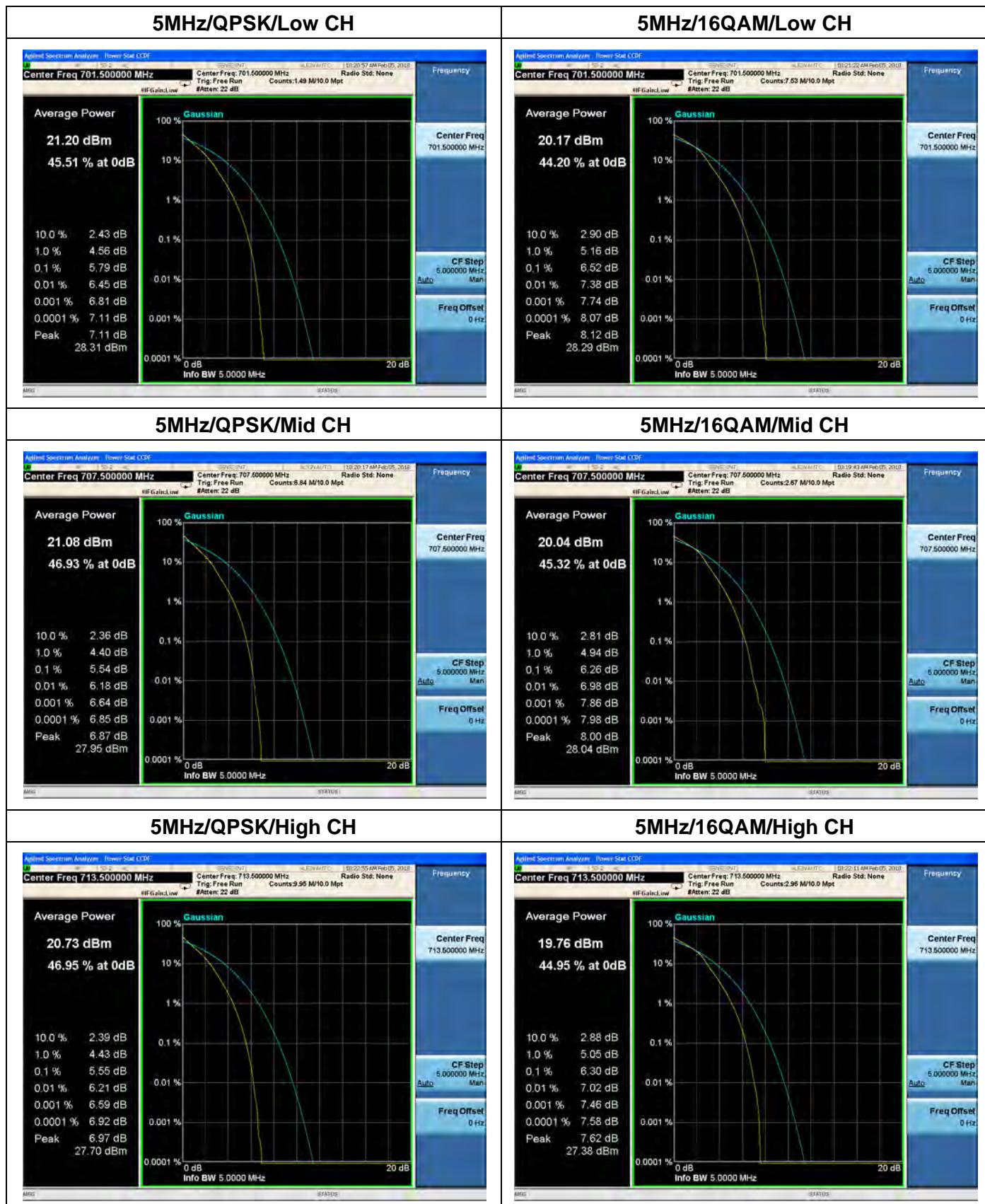
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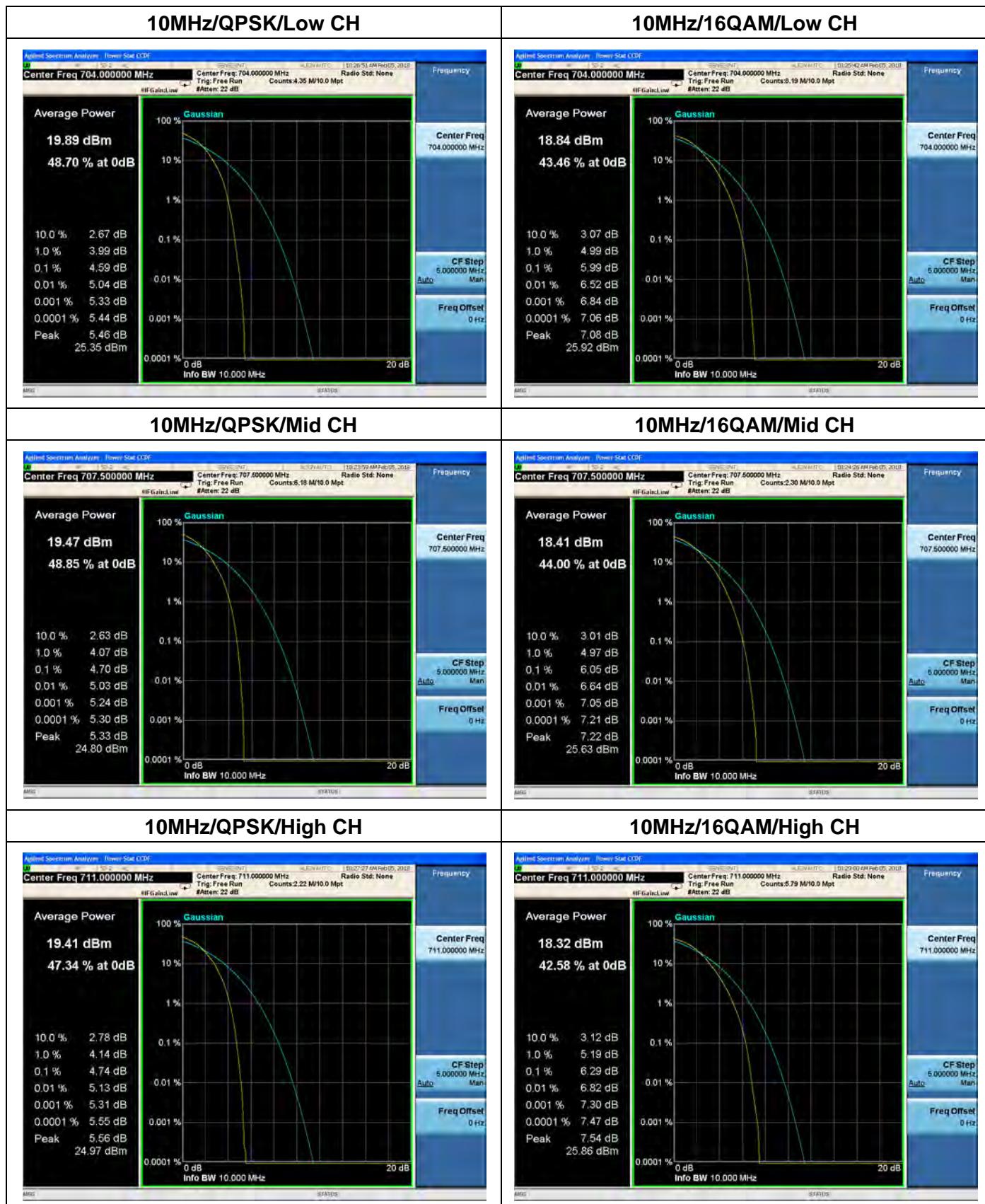
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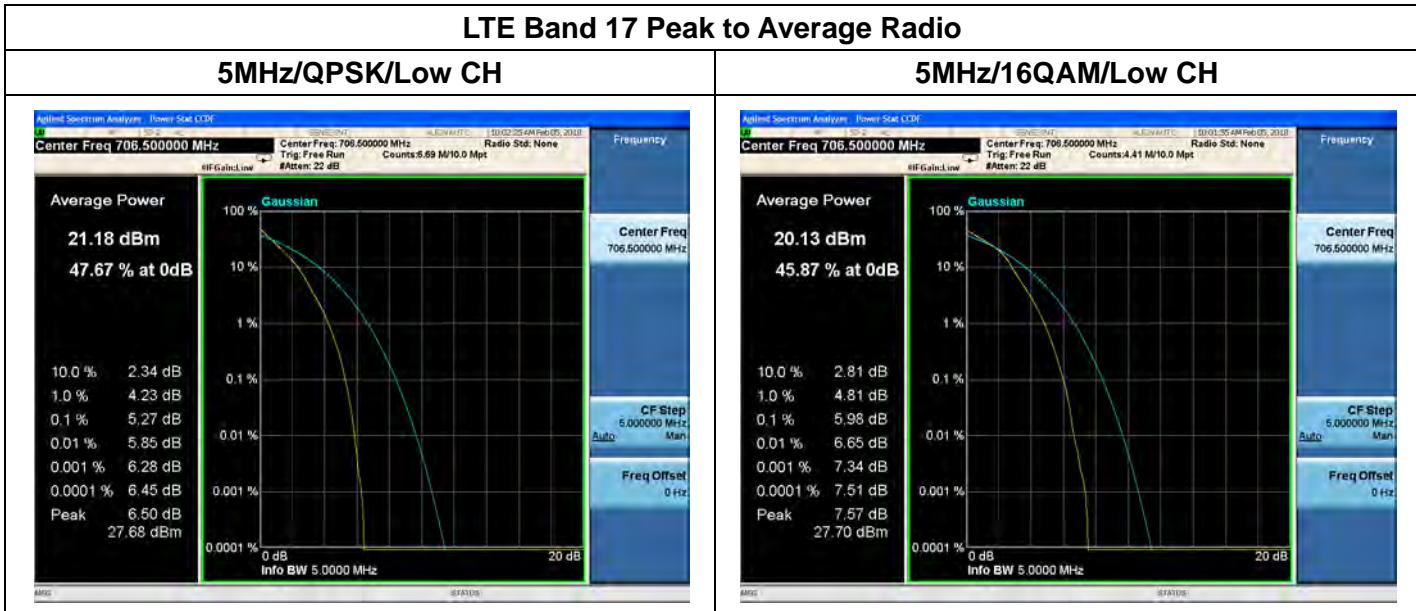
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**LTE Band 17, BW: 5MHz**

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
23755	706.5	5.27	5.98
23790	710.0	6.08	6.75
23825	713.5	5.52	6.28

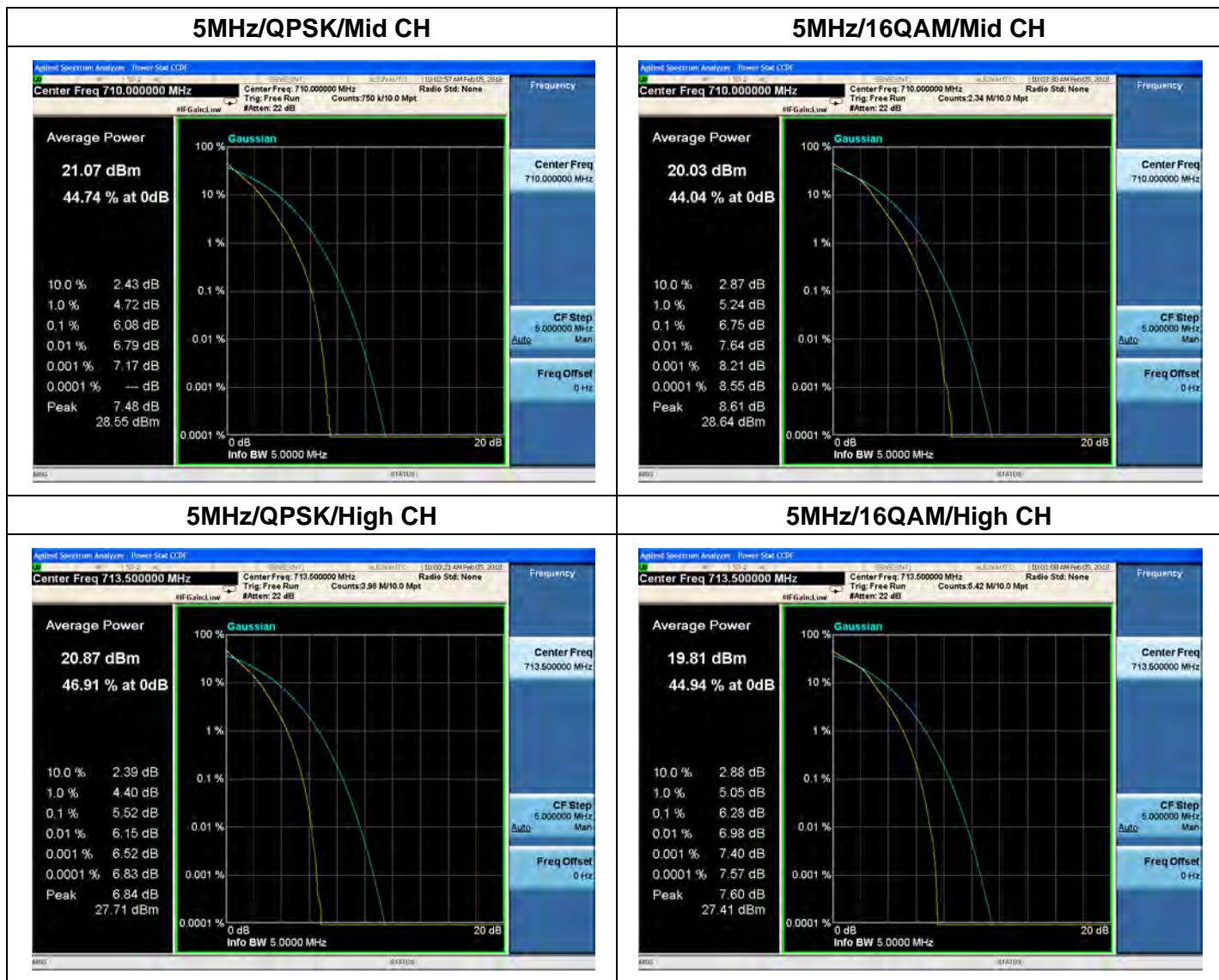
LTE Band 1, BW: 10MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
23780	709.0	4.81	6.15
23790	710.0	4.81	6.24
23800	711.0	4.74	6.28

LTE Band 17 Peak to Average Radio**5MHz/QPSK/Low CH****5MHz/16QAM/Low CH**



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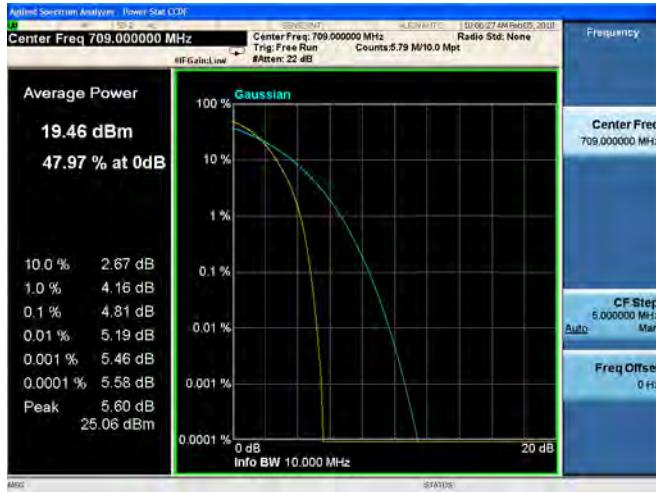
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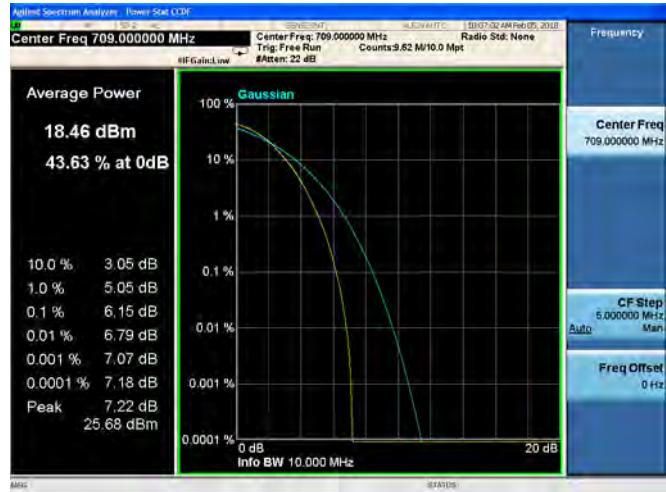


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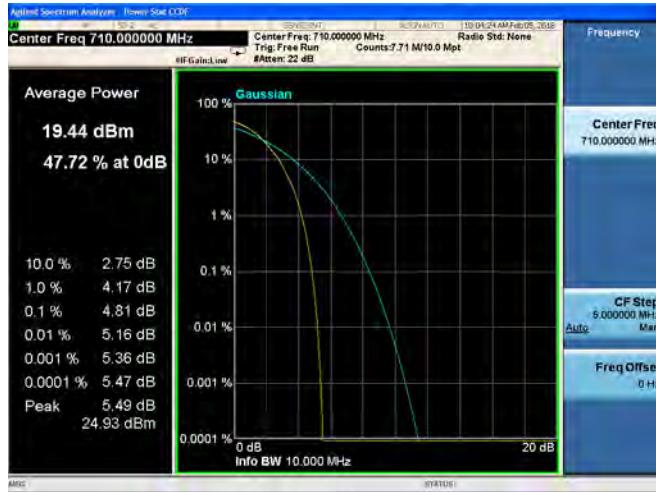
10MHz/QPSK/Low CH



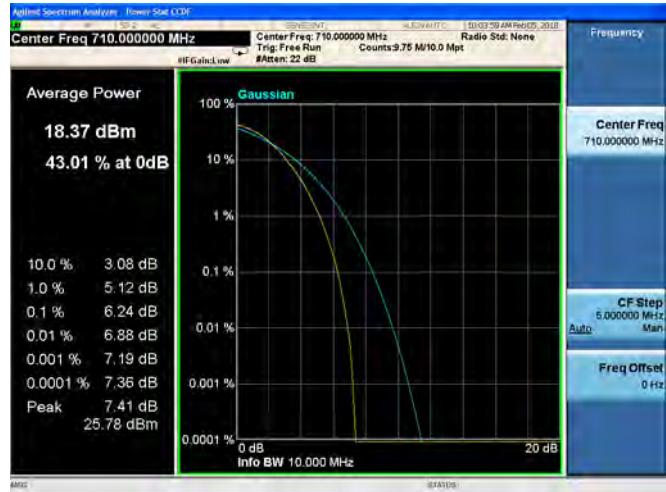
10MHz/16QAM/Low CH



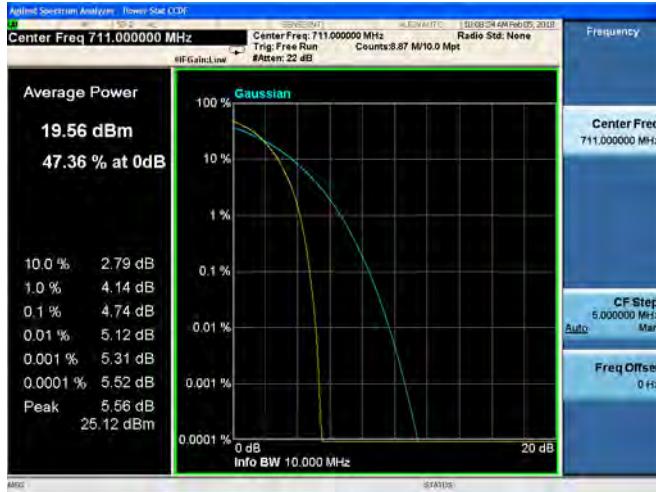
10MHz/QPSK/Mid CH



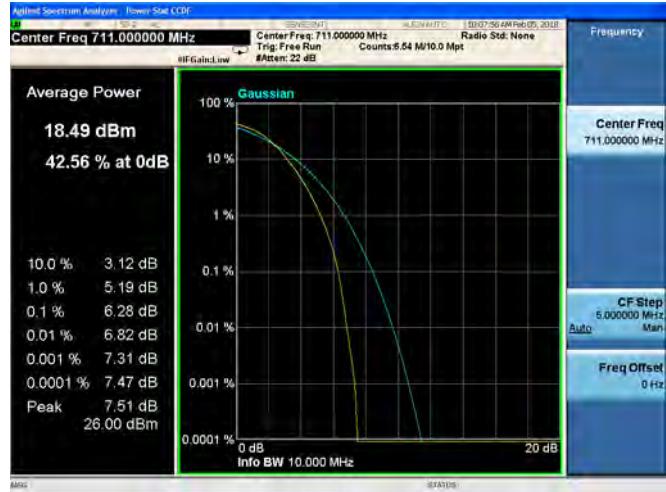
10MHz/16QAM/Mid CH



10MHz/QPSK/High CH



10MHz/16QAM/High CH



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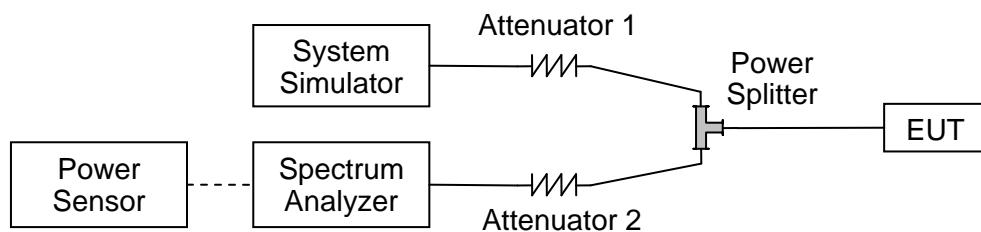
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2.5. Conducted Spurious Emissions

2.5.1. Requirement

According to FCC section 2.1051, 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. This calculated to be -13dBm.

2.5.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.5.3. Test procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.5.4. Test Result



REPORT No.: SZ18050200W08

LTE Band 2 1.4MHz BW Low Channel QPSK



16QAM



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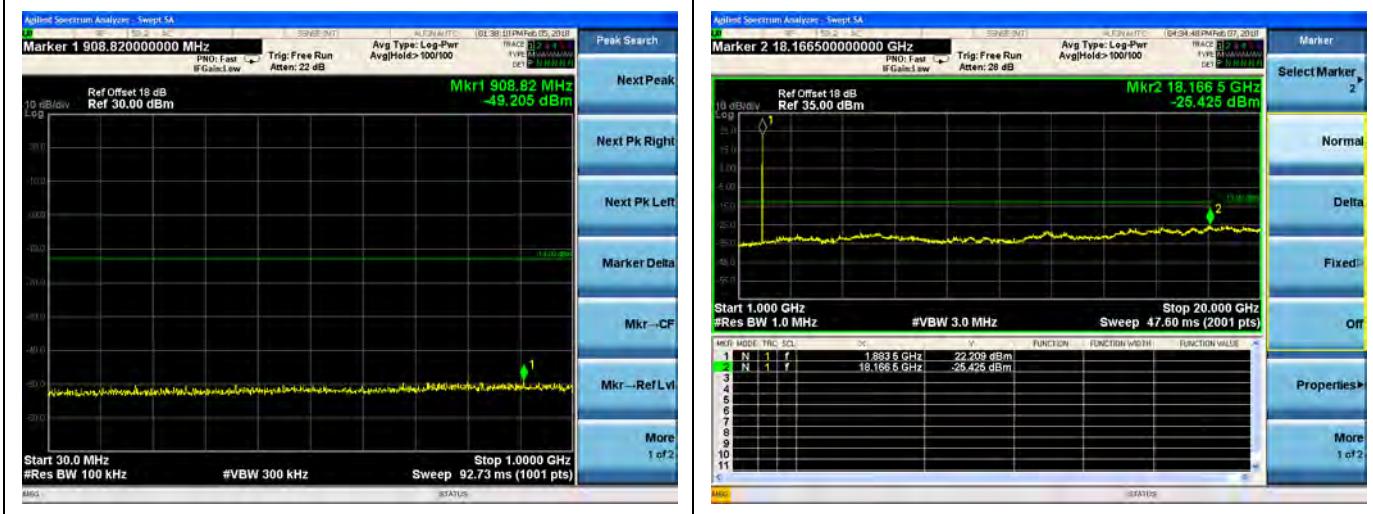


REPORT No.: SZ18050200W08

LTE Band 2 1.4MHz BW Mid Channel QPSK



16QAM



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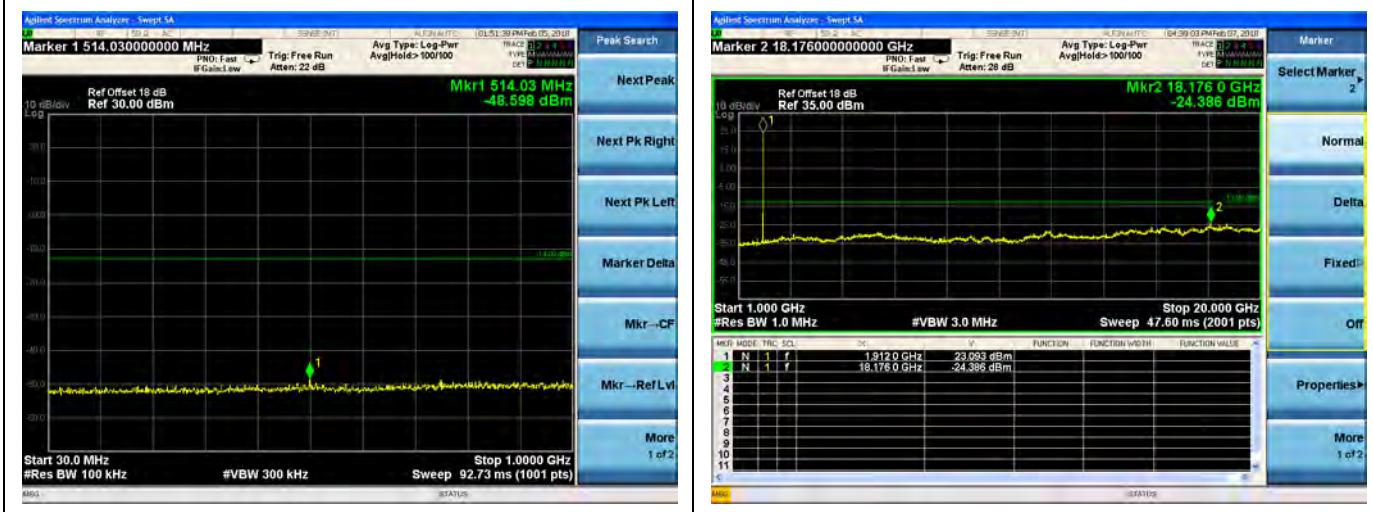


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LTE Band 2 1.4MHz BW High Channel QPSK



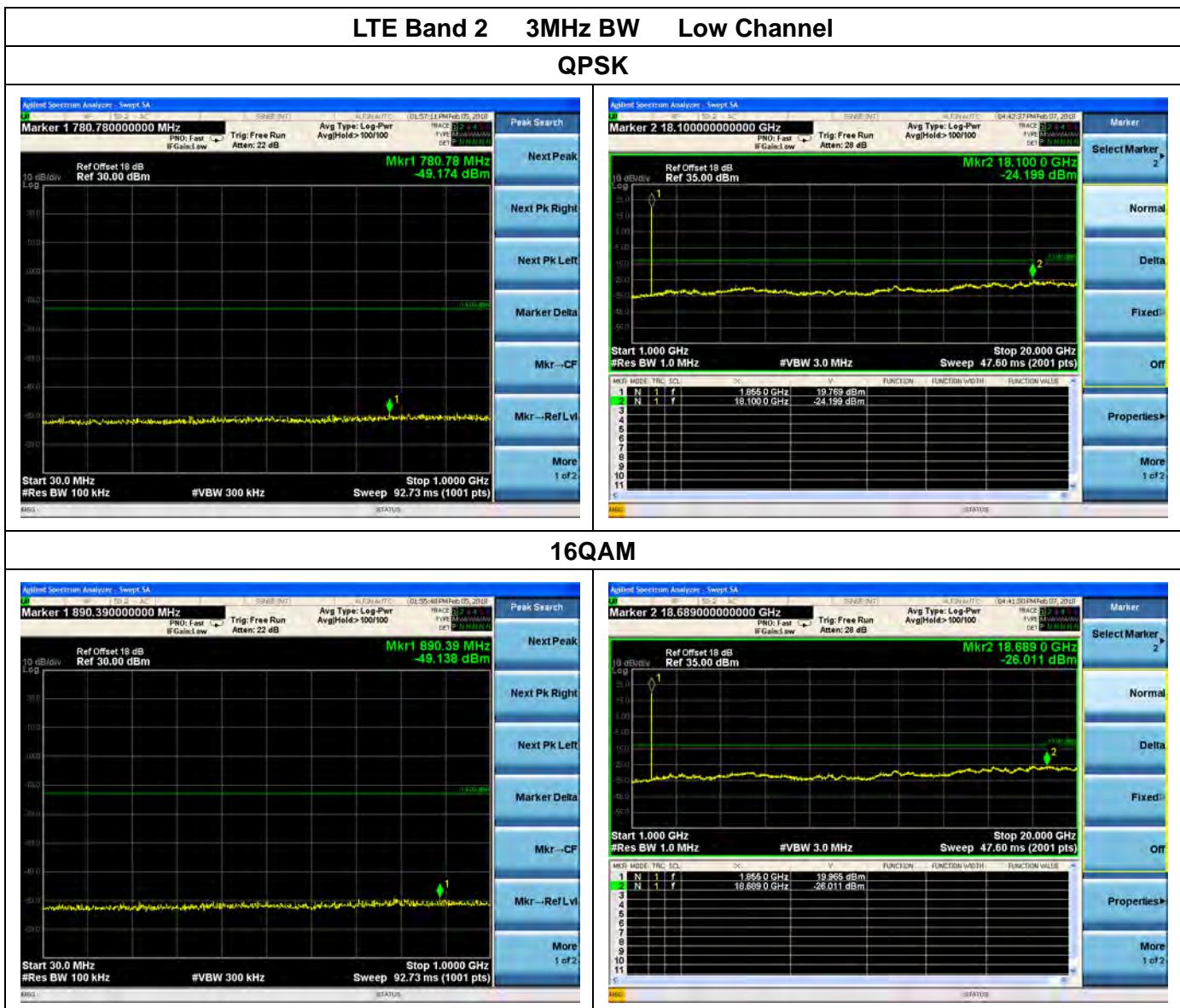
16QAM

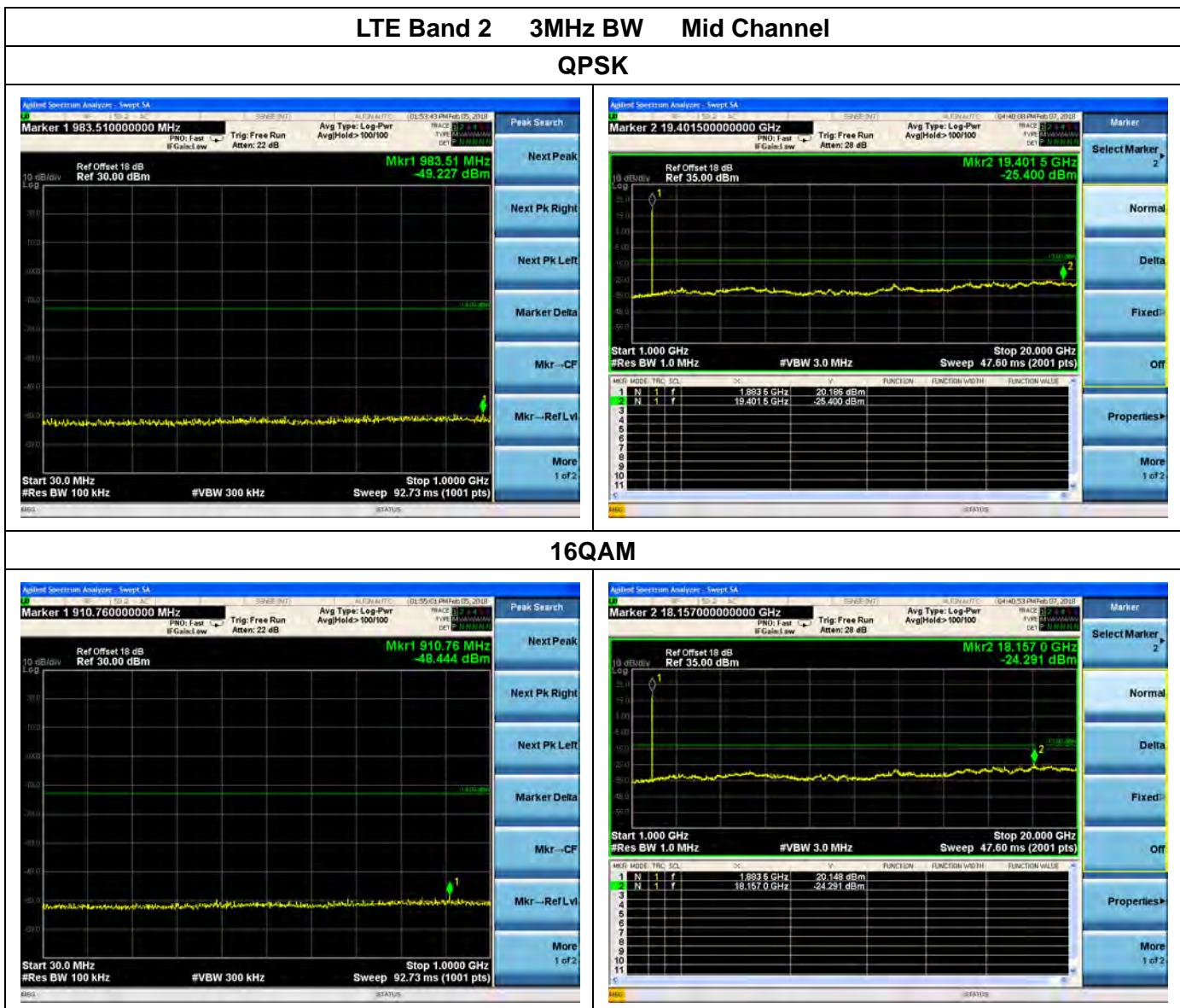


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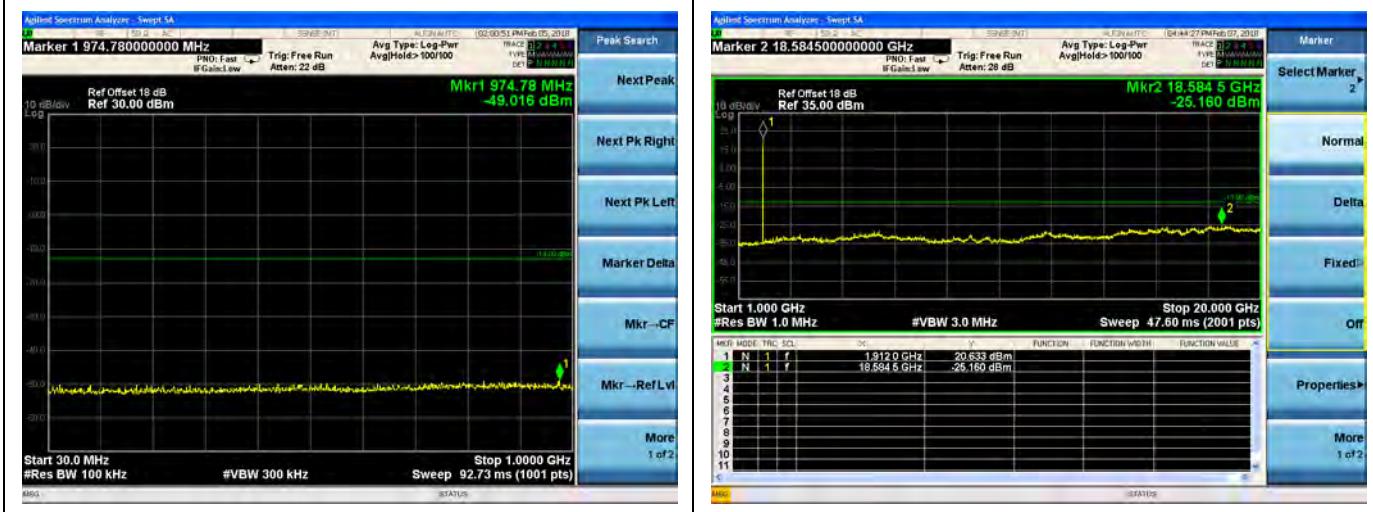


REPORT No.: SZ18050200W08

LTE Band 2 3MHz BW High Channel QPSK



16QAM



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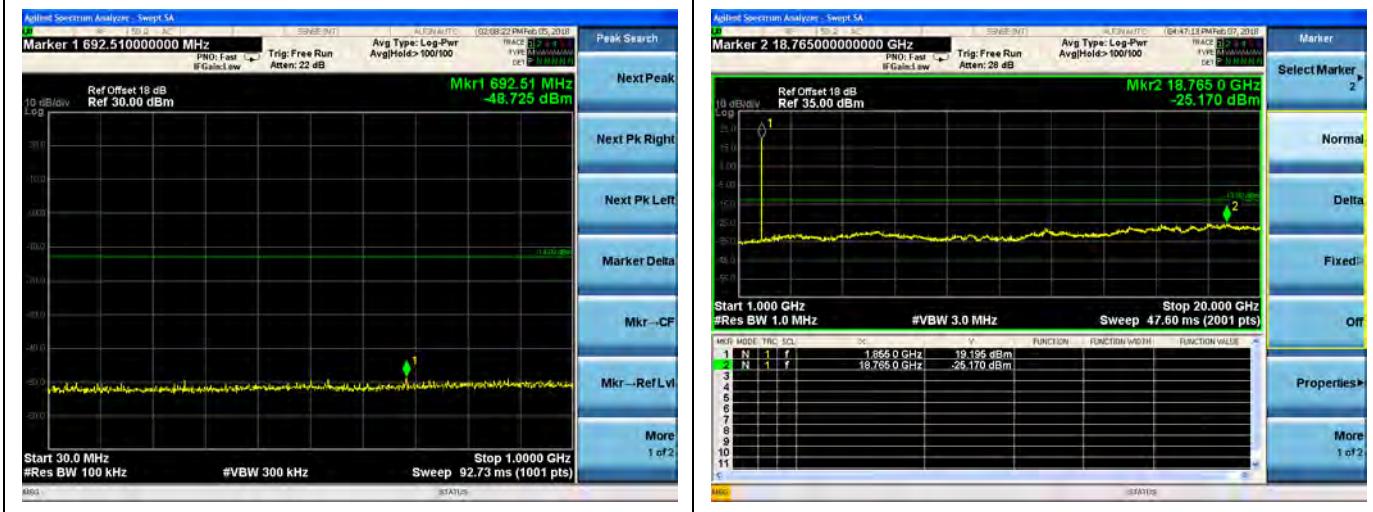


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LTE Band 2 5MHz BW Low Channel QPSK



16QAM



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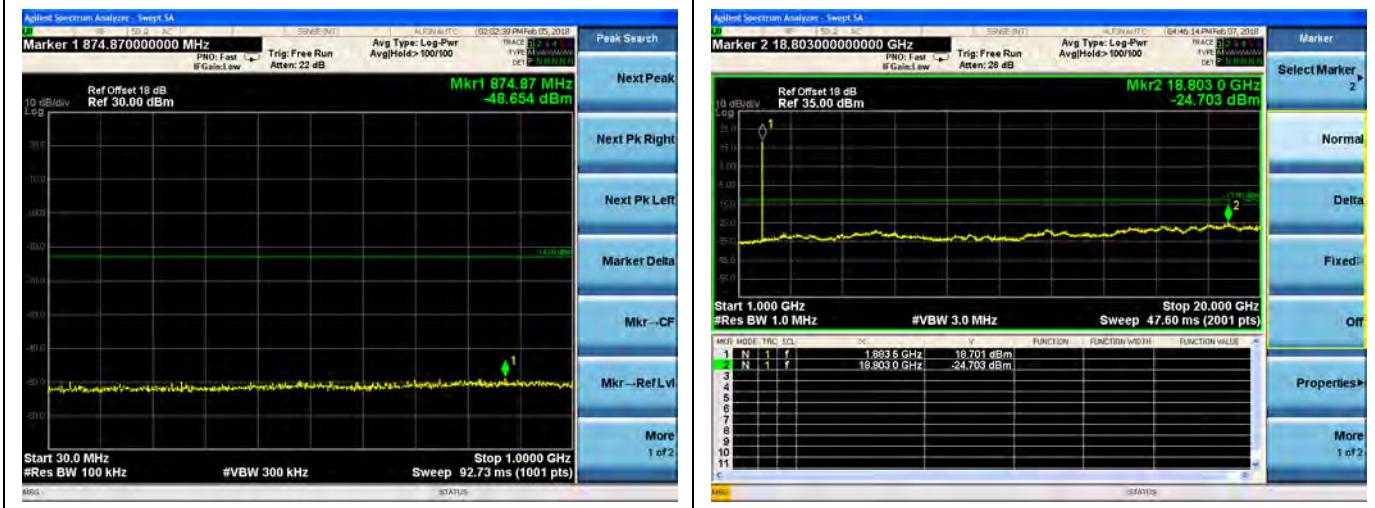
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LTE Band 2 5MHz BW Mid Channel QPSK



16QAM





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LTE Band 2 5MHz BW High Channel QPSK



16QAM



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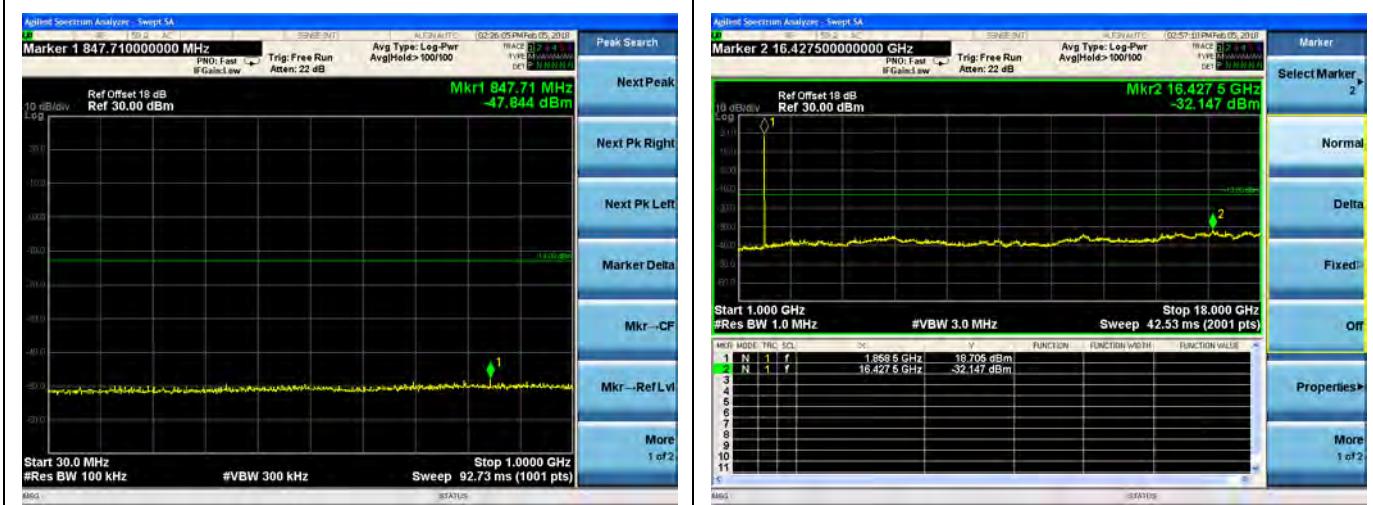
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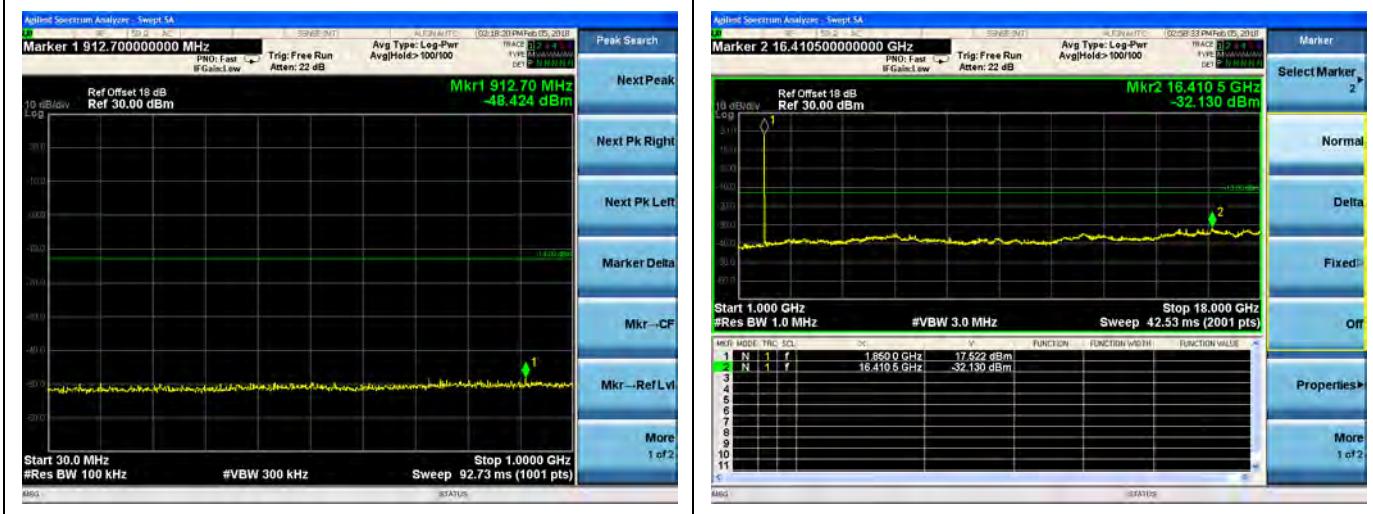


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LTE Band 2 10MHz BW Low Channel QPSK



16QAM

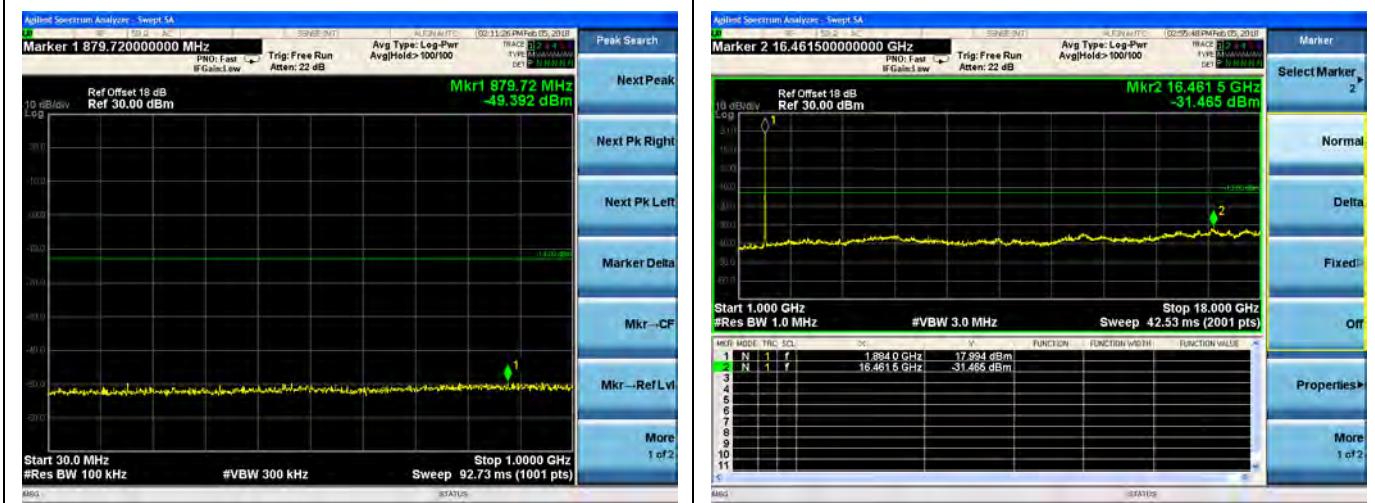


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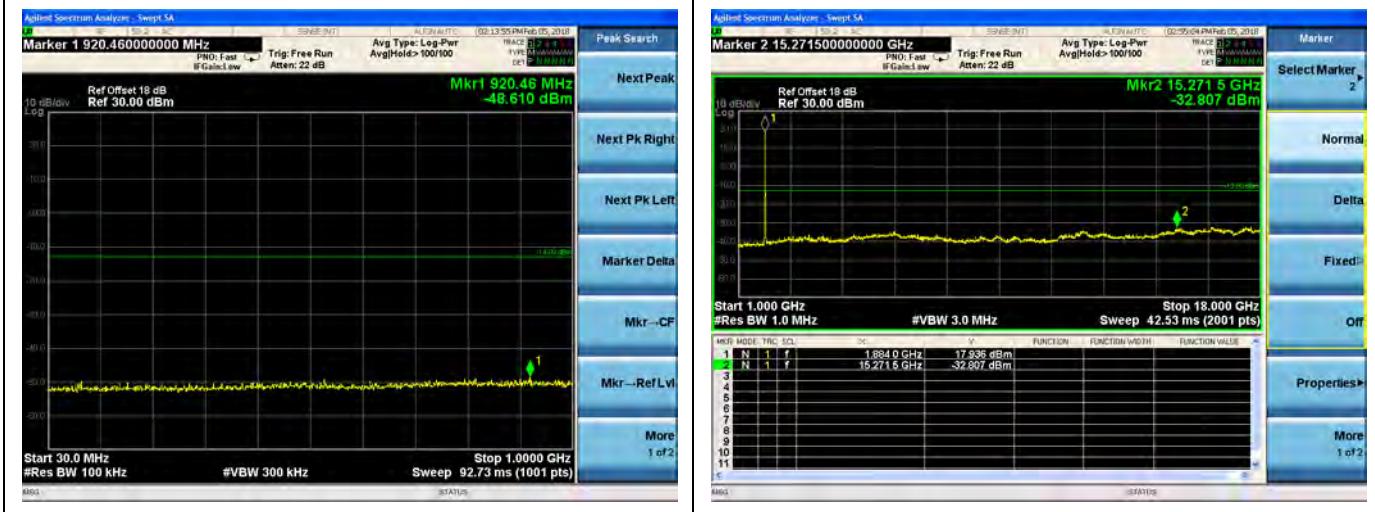
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LTE Band 2 10MHz BW Mid Channel QPSK



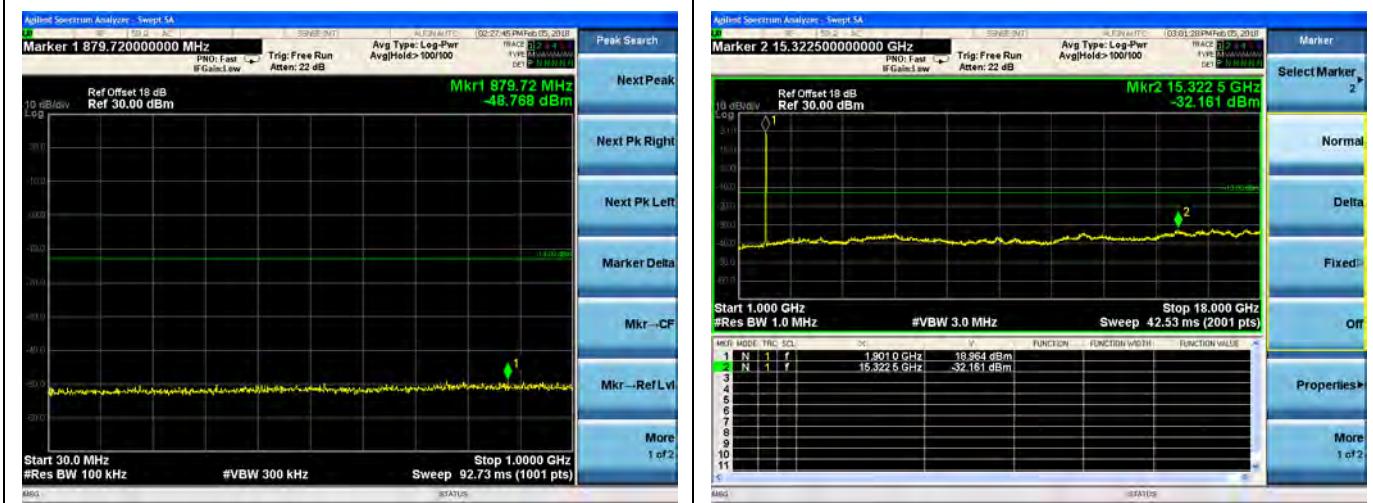
16QAM



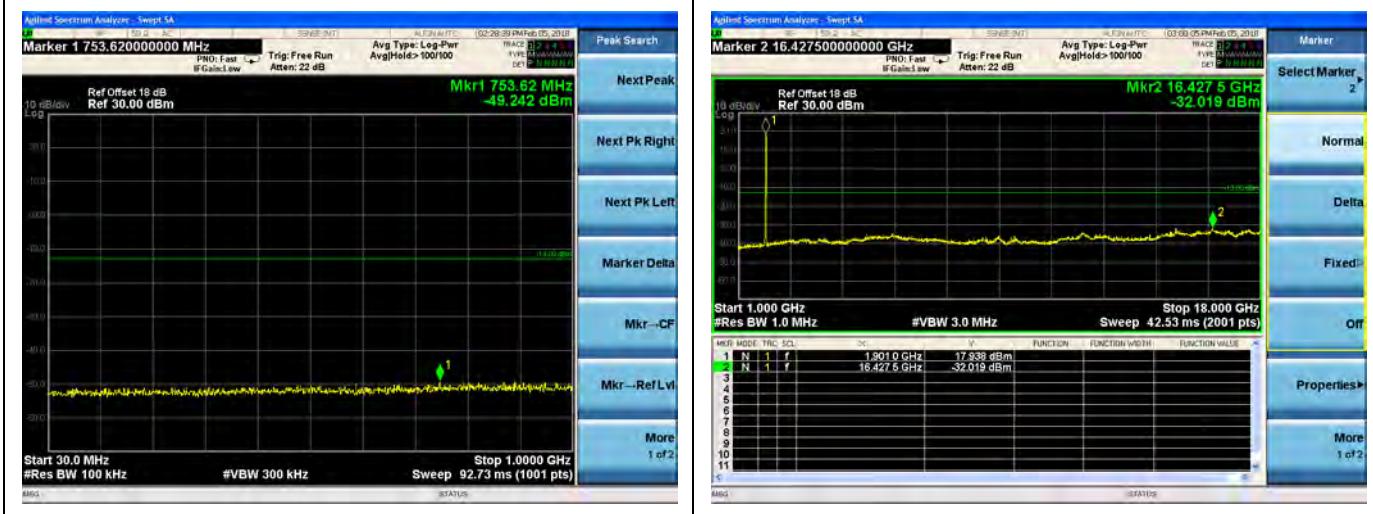


REPORT No.: SZ18050200W08

LTE Band 2 10MHz BW High Channel QPSK



16QAM



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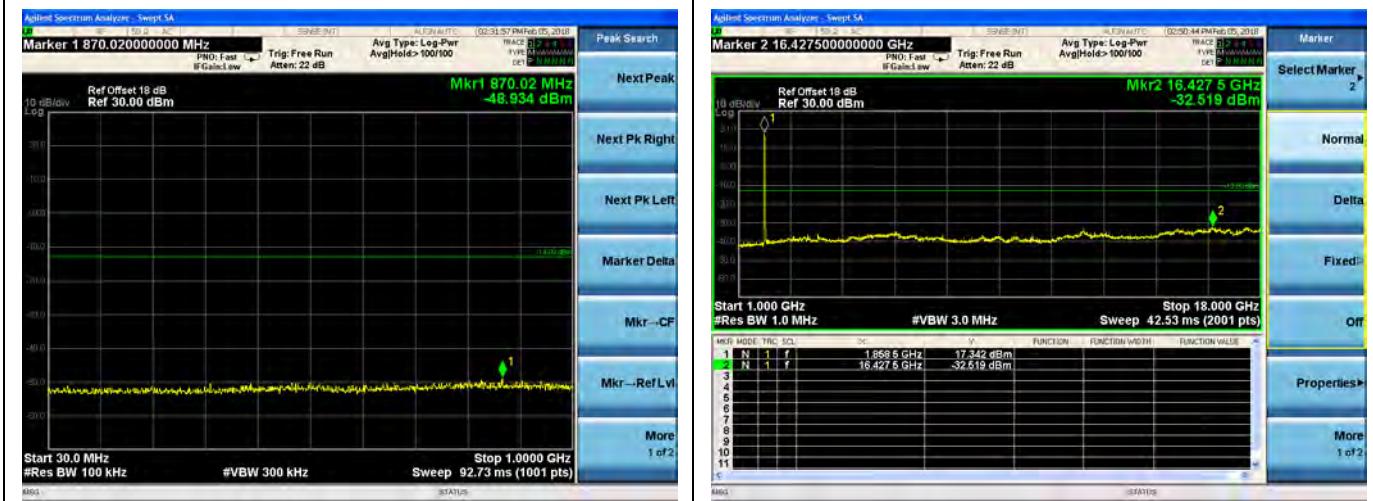
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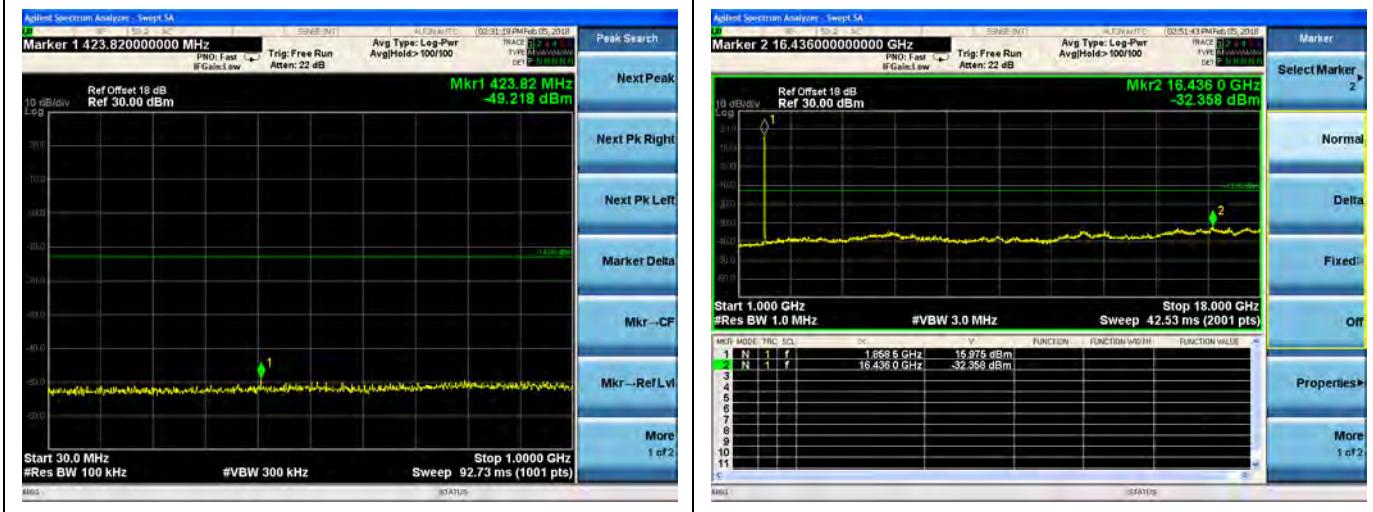


REPORT No.: SZ18050200W08

LTE Band 2 15MHz BW Low Channel QPSK



16QAM



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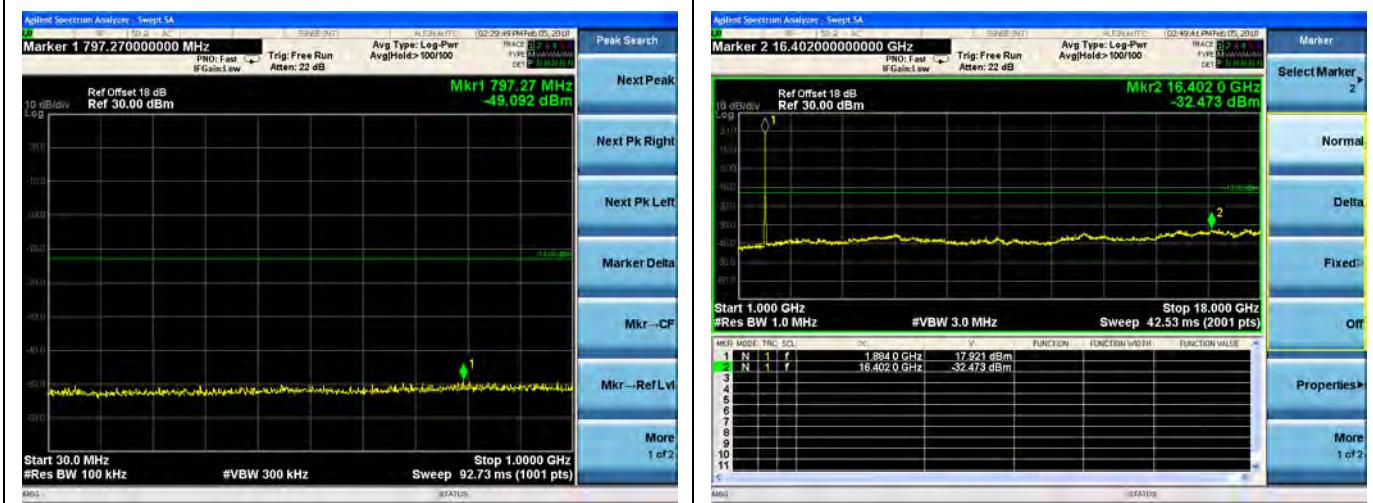
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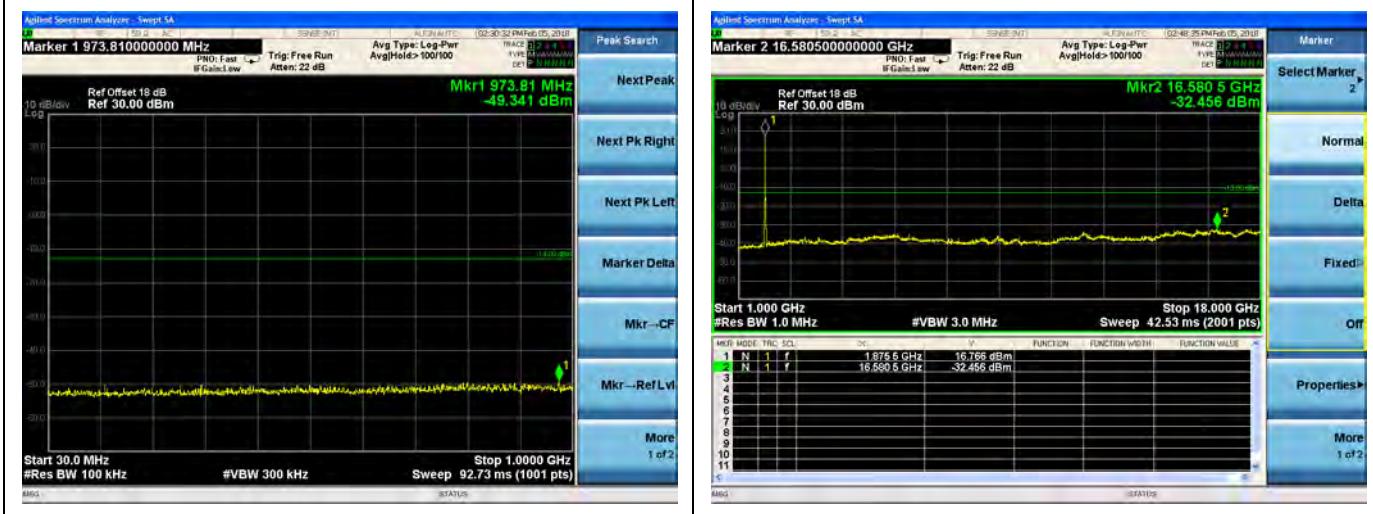


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LTE Band 2 15MHz BW Mid Channel QPSK



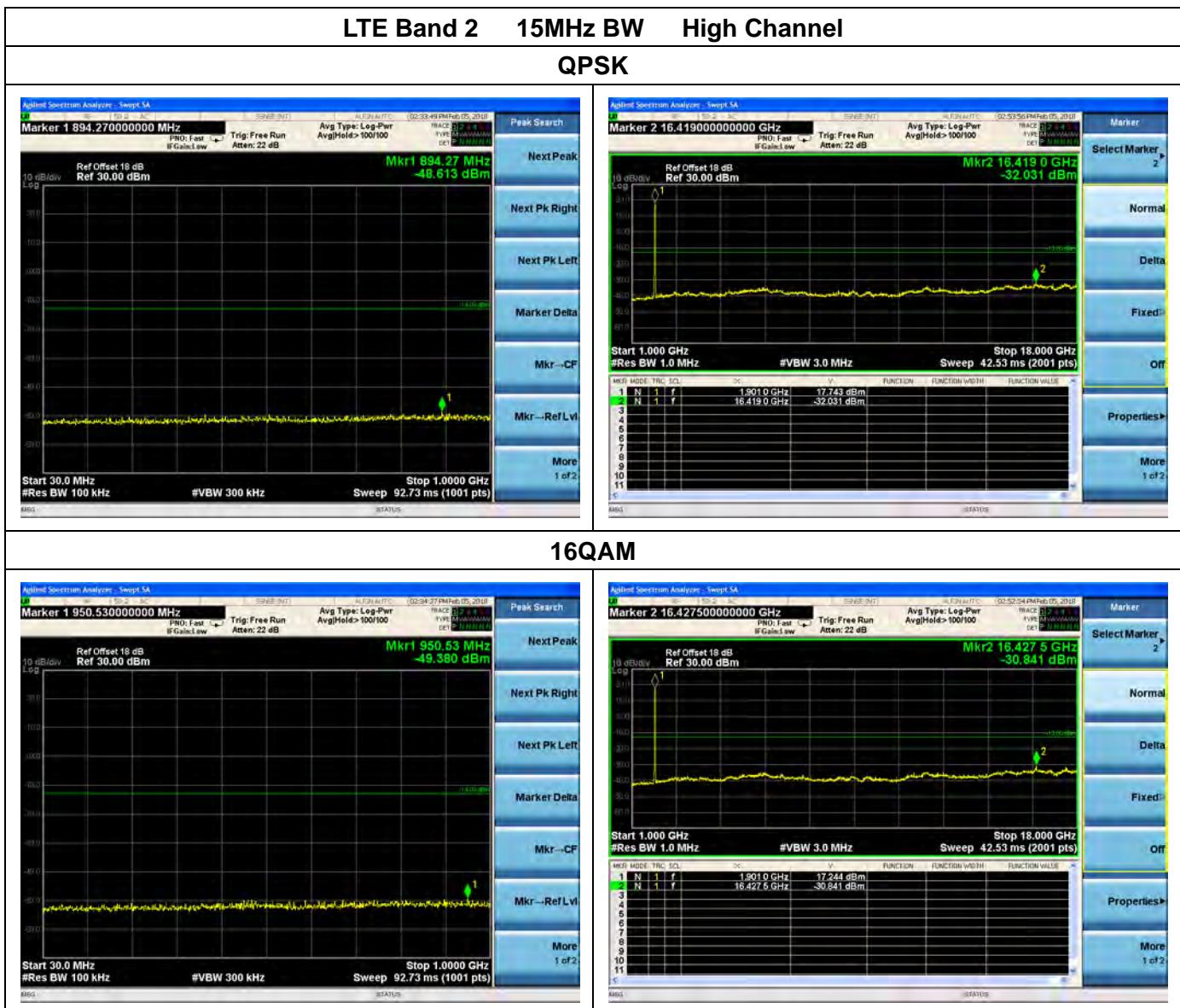
16QAM



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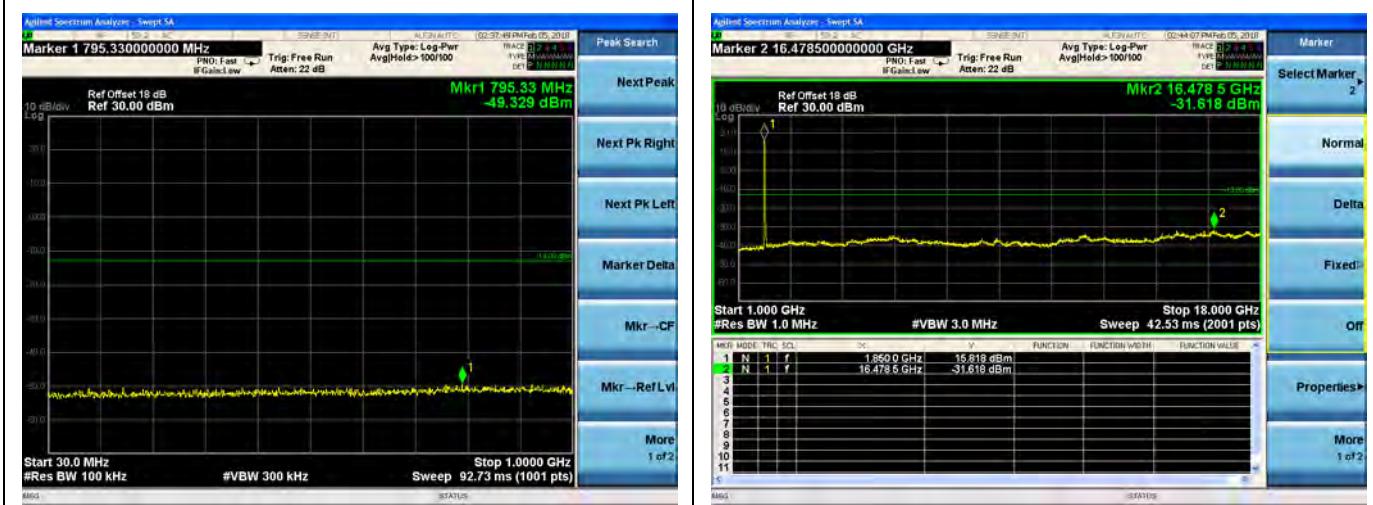
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LTE Band 2 20MHz BW Low Channel QPSK



16QAM



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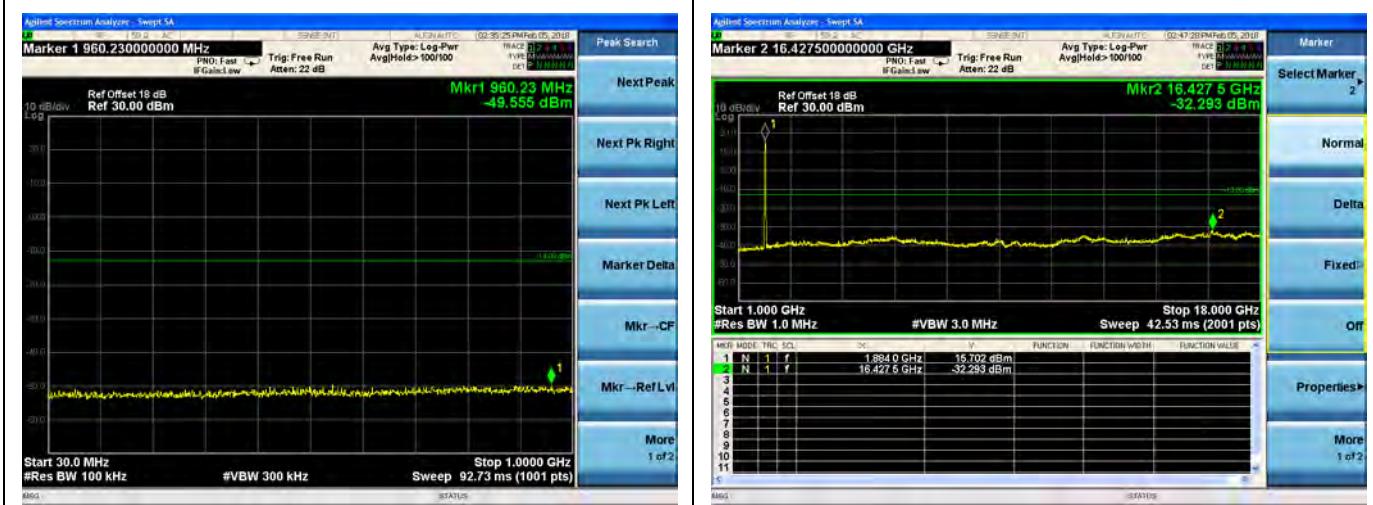
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LTE Band 2 20MHz BW Mid Channel QPSK



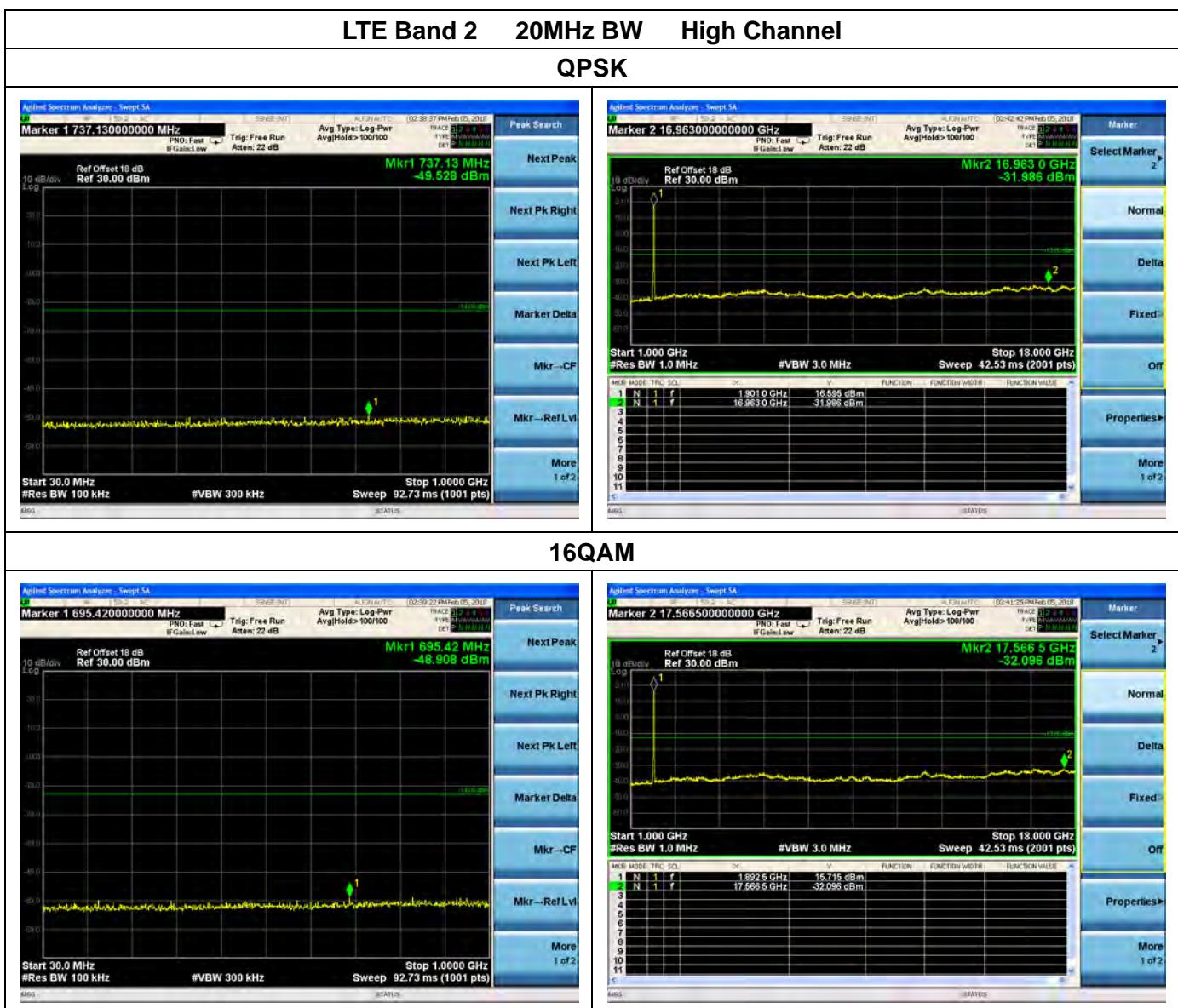
16QAM



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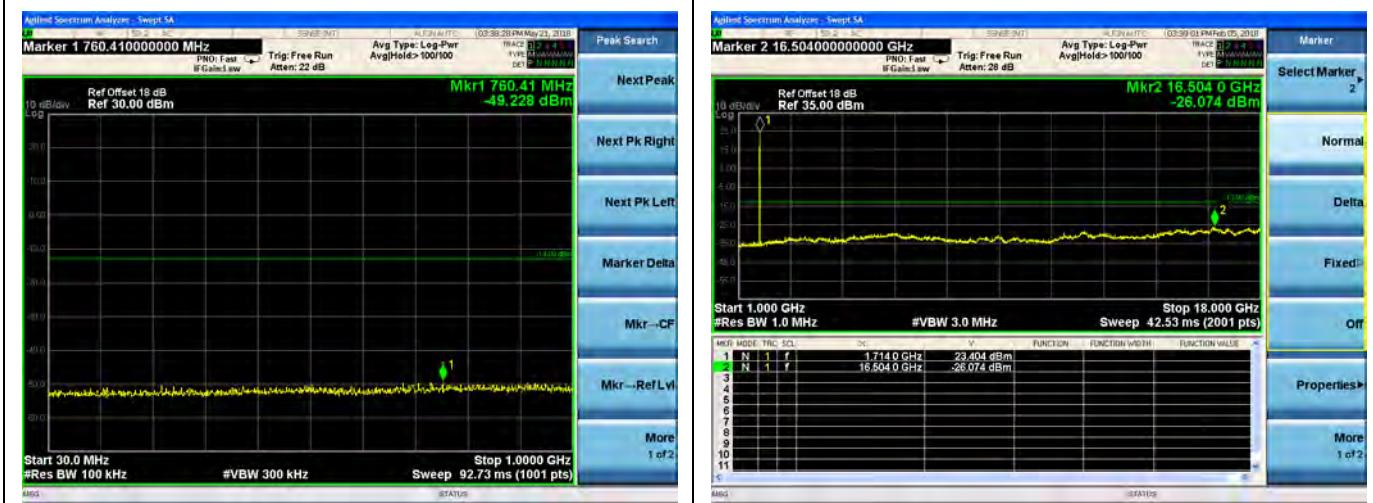
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REPORT No.: SZ18050200W08

LTE Band 4 1.4MHz BW Low Channel QPSK



16QAM



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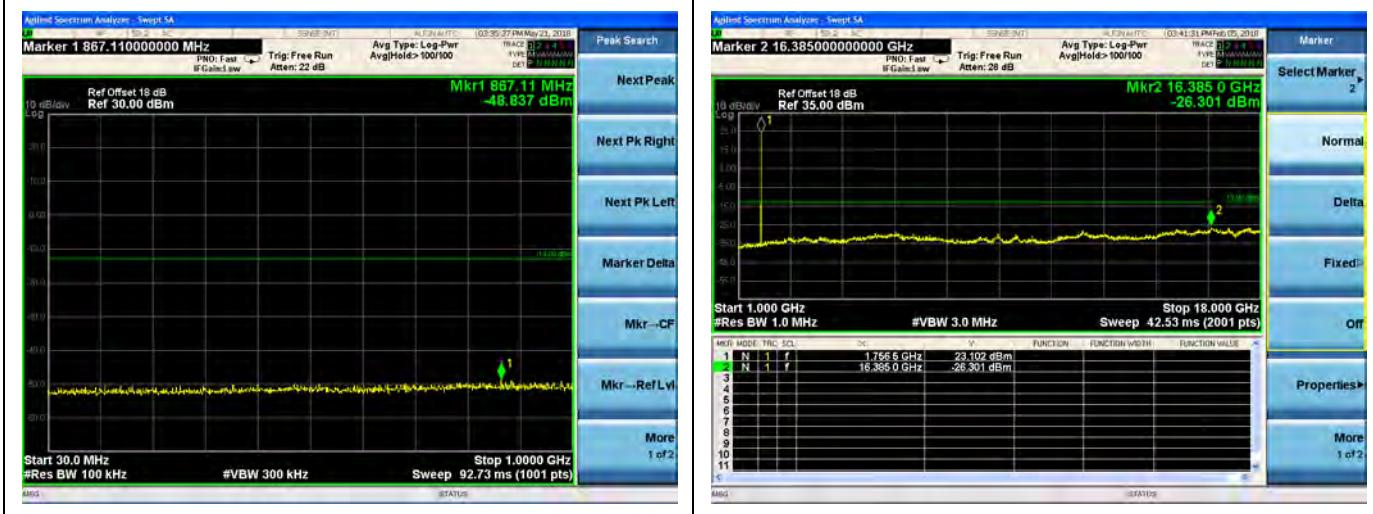


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LTE Band 4 1.4MHz BW High Channel QPSK



16QAM



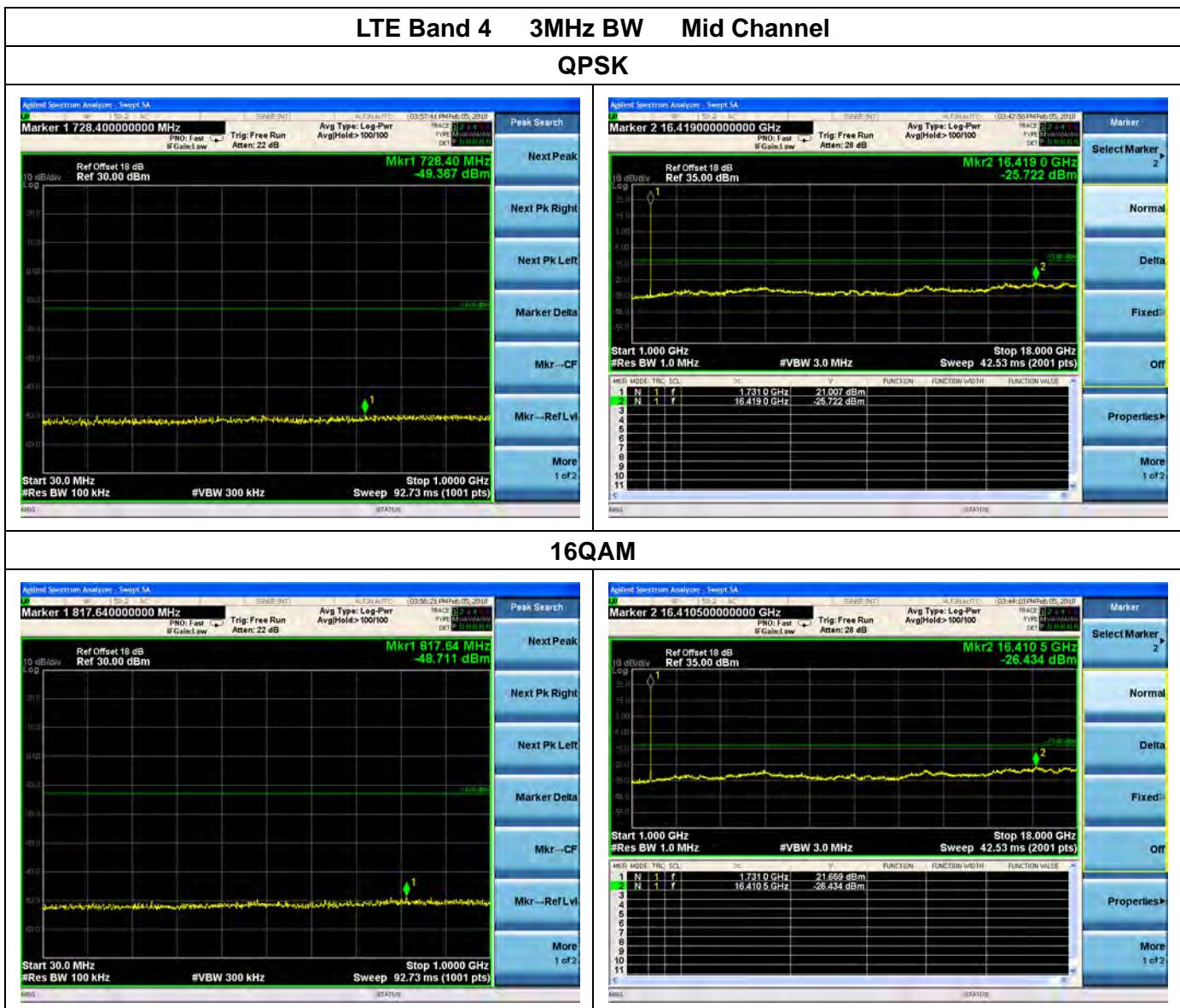
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LTE Band 4 3MHz BW Low Channel QPSK





LTE Band 4 3MHz BW High Channel QPSK



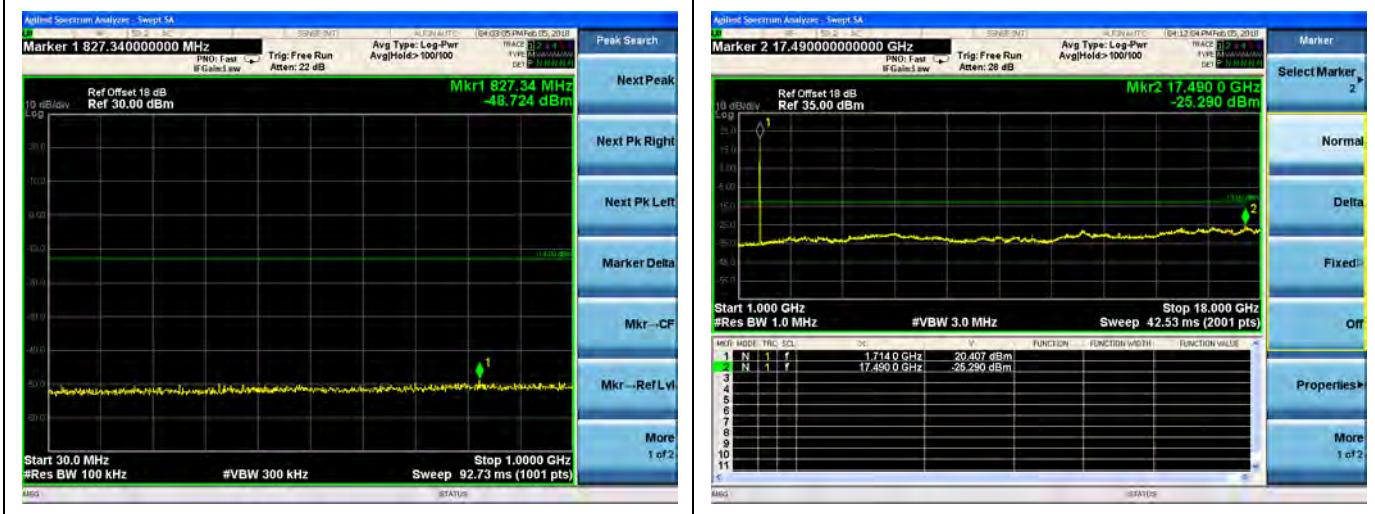
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LTE Band 4 5MHz BW Low Channel QPSK



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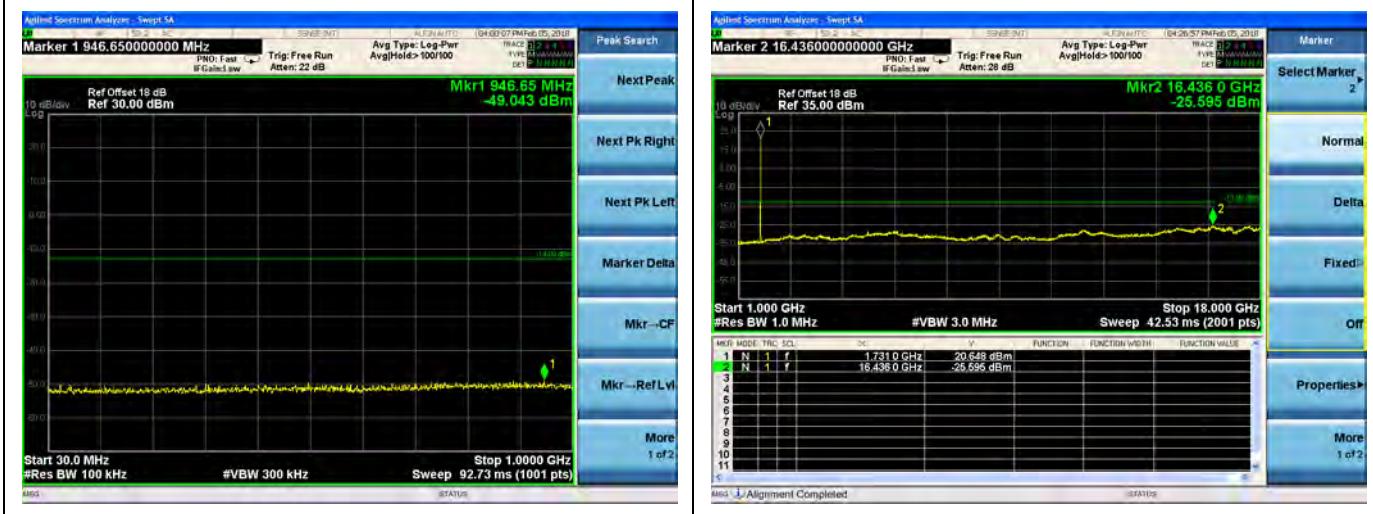


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LTE Band 4 5MHz BW Mid Channel QPSK



16QAM



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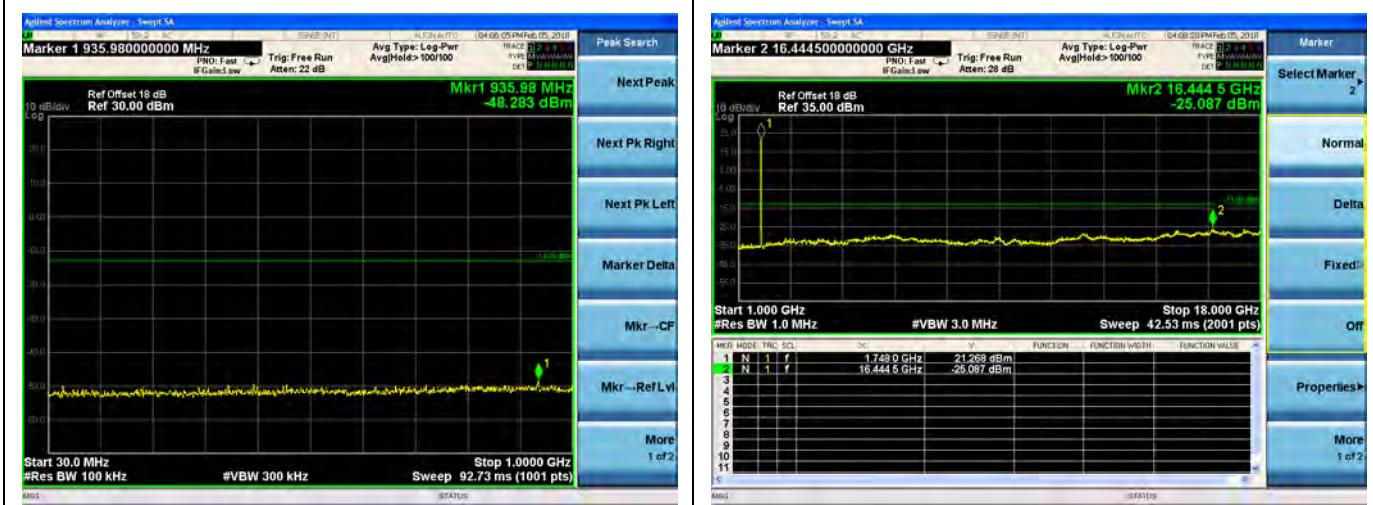
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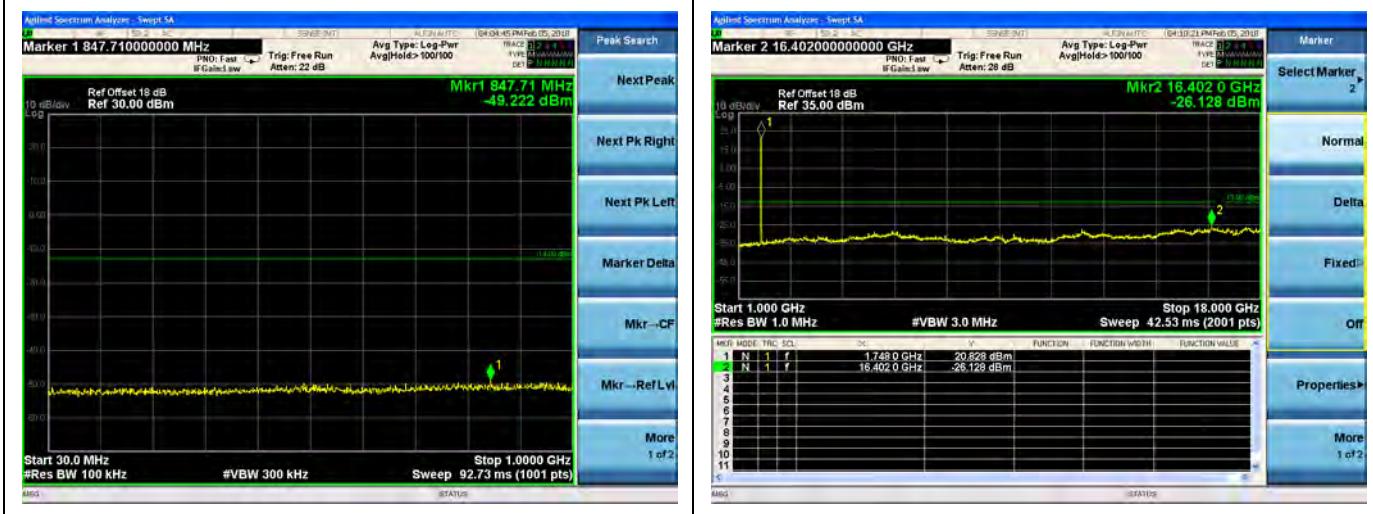


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