2.3. Frequency Stability

2.3.1. Requirement

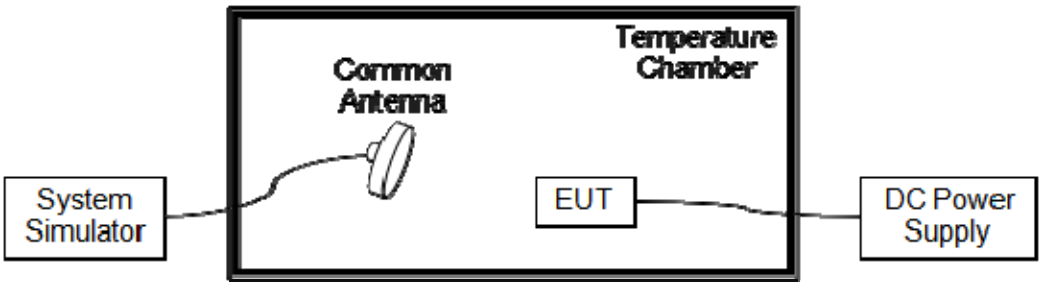
According to FCC section 2.1055, 24.235, 27.54, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

(a) The temperature is varied from -30°C to +50°C at intervals of not more than 10°C.

(b) 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.

Note: The operating temperature of EUT is from -10°C to 40°C, which are specified by the applicant.

2.3.2. Test Description



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.

2.3.3. Test procedure

KDB 971168 D01v03 Section 9.0 and ANSI/TIA-603-E-2016.

2.3.4. Test Result

The nominal, highest and lowest extreme voltages are separately 3.80V, 4.35V and 3.60V, which are specified by the applicant; the normal temperature here used is 20°C.

LTE Band 2, QPSK, Channel 18900, Frequency 1880.0MHz Limit =Within Authorized Band					
Voltage(%)	**Power (VDC)**	**Temp(°C)**	**Fre. Dev.(Hz)**	**Deviation (ppm)**	**Result**
100	3.80	+20（Ref）	51	0.027	PASS
100		-10	35	0.019	
100		0	35	0.019	
100		+10	-12	-0.006	
100		+20	-45	-0.024	
100		+30	22	0.012	
100		+40	76	0.040	
115	4.35	+20	-56	-0.030	
85	3.60	+20	23	0.012	

LTE Band 4, QPSK, Channel 20175, Frequency 1732.5MHz Limit =Within Authorized Band					
Voltage(%)	**Power (VDC)**	**Temp(°C)**	**Fre. Dev.(Hz)**	**Deviation (ppm)**	**Result**
100	3.80	+20（Ref）	34	0.020	PASS
100		-10	63	0.036	
100		0	34	0.020	
100		+10	-65	-0.038	
100		+20	-23	-0.013	
100		+30	46	0.027	
100		+40	24	0.014	
115	4.35	+20	-57	-0.033	
85	3.60	+20	33	0.019	

LTE Band 5, QPSK, Channel 20525, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	**Power (VDC)**	**Temp (°C)**	**Fre. Dev. (Hz)**	**Deviation (ppm)**	**Result**
100	3.80	+20（Ref）	33	0.039	PASS
100		-10	-34	-0.041	
100		0	34	0.041	
100		+10	35	0.042	
100		+20	-43	-0.051	
100		+30	-19	-0.023	
100		+40	37	0.044	
115	4.35	+20	-25	-0.030	
85	3.60	+20	23	0.027	

LTE Band 13, QPSK, Channel 23230, Frequency 782MHz Limit=±2.5ppm					
Voltage (%)	**Power (VDC)**	**Temp (°C)**	**Fre. Dev. (Hz)**	**Deviation (ppm)**	**Result**
100	3.80	+20（Ref）	12	0.015	PASS
100		-10	-67	-0.086	
100		0	62	0.079	
100		+10	-23	-0.029	
100		+20	-26	-0.033	
100		+30	34	0.043	
100		+40	-38	-0.049	
115	4.35	+20	29	0.037	
85	3.60	+20	43	0.055	

LTE Band 66, QPSK, Channel 132322, Frequency 1745MHz Limit =Within Authorized Band					
Voltage (%)	**Power (VDC)**	**Temp (°C)**	**Fre. Dev. (Hz)**	**Deviation (ppm)**	**Result**
100	3.80	+20（Ref）	35	0.020	PASS
100		-10	16	0.009	
100		0	45	0.026	
100		+10	-42	-0.024	
100		+20	-12	-0.007	
100		+30	-46	-0.026	
100		+40	22	0.013	
115	4.35	+20	-36	-0.021	
85	3.60	+20	52	0.030	

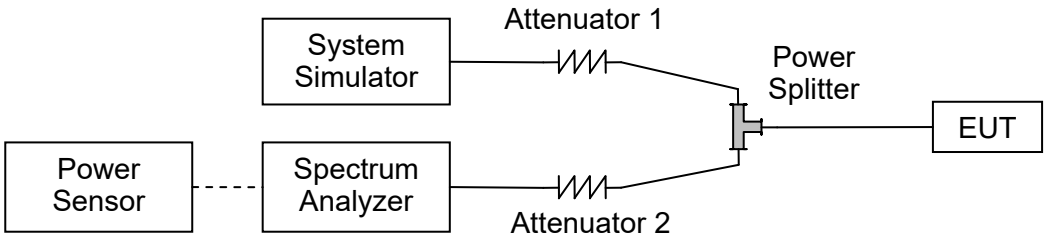
2.4. Peak to Average Radio

2.4.1. Requirement

According to FCC section 24.232(d) and 27.50(d), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

2.4.2. Test Description

Test Set:



The EUTis 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(MHz)	**Channel Level**	**Modulation**	**PAR Radio(dB)**	**Limit(dB)**	**Verdict**
1.4	Low	QPSK	5.85	<=13	PASS
	Low	16QAM	6.83	<=13	PASS
	Low	64QAM	6.81	<=13	PASS
	Mid	QPSK	6.48	<=13	PASS
	Mid	16QAM	7.16	<=13	PASS
	Mid	64QAM	6.97	<=13	PASS
	High	QPSK	6.23	<=13	PASS
	High	16QAM	6.81	<=13	PASS
	High	64QAM	6.84	<=13	PASS
3	Low	QPSK	6.22	<=13	PASS
	Low	16QAM	6.77	<=13	PASS
	Low	64QAM	6.72	<=13	PASS
	Mid	QPSK	6.68	<=13	PASS
	Mid	16QAM	7.26	<=13	PASS
	Mid	64QAM	6.77	<=13	PASS
	High	QPSK	6.14	<=13	PASS
	High	16QAM	6.80	<=13	PASS
	High	64QAM	6.59	<=13	PASS
5	Low	QPSK	5.98	<=13	PASS
	Low	16QAM	6.66	<=13	PASS
	Low	64QAM	6.52	<=13	PASS
	Mid	QPSK	6.24	<=13	PASS
	Mid	16QAM	6.70	<=13	PASS
	Mid	64QAM	6.62	<=13	PASS
	High	QPSK	6.13	<=13	PASS
	High	16QAM	6.64	<=13	PASS
	High	64QAM	6.54	<=13	PASS
10	Low	QPSK	5.89	<=13	PASS
	Low	16QAM	6.56	<=13	PASS
	Low	64QAM	6.50	<=13	PASS
	Mid	QPSK	6.12	<=13	PASS
	Mid	16QAM	6.60	<=13	PASS
	Mid	64QAM	6.58	<=13	PASS
	High	QPSK	5.86	<=13	PASS
	High	16QAM	6.54	<=13	PASS
	High	64QAM	6.49	<=13	PASS

15	Low	QPSK	5.74	<=13	PASS
	Low	16QAM	6.49	<=13	PASS
	Low	64QAM	6.46	<=13	PASS
	Mid	QPSK	6.16	<=13	PASS
	Mid	16QAM	6.61	<=13	PASS
	Mid	64QAM	6.56	<=13	PASS
	High	QPSK	5.78	<=13	PASS
	High	16QAM	6.54	<=13	PASS
	High	64QAM	6.45	<=13	PASS
20	Low	QPSK	5.60	<=13	PASS
	Low	16QAM	6.43	<=13	PASS
	Low	64QAM	6.44	<=13	PASS
	Mid	QPSK	5.81	<=13	PASS
	Mid	16QAM	6.62	<=13	PASS
	Mid	64QAM	6.54	<=13	PASS
	High	QPSK	5.63	<=13	PASS
	High	16QAM	6.49	<=13	PASS
	High	64QAM	6.43	<=13	PASS

LTE Band 4					
BW(MHz)	**Channel Level**	**Modulation**	**PAR Radio(dB)**	**Limit(dB)**	**Verdict**
1.4	Low	QPSK	4.68	<=13	PASS
	Low	16QAM	5.41	<=13	PASS
	Low	64QAM	5.09	<=13	PASS
	Mid	QPSK	4.93	<=13	PASS
	Mid	16QAM	5.73	<=13	PASS
	Mid	64QAM	5.71	<=13	PASS
	High	QPSK	5.84	<=13	PASS
	High	16QAM	6.78	<=13	PASS
	High	64QAM	6.70	<=13	PASS
3	Low	QPSK	4.70	<=13	PASS
	Low	16QAM	5.21	<=13	PASS
	Low	64QAM	5.16	<=13	PASS
	Mid	QPSK	4.94	<=13	PASS
	Mid	16QAM	5.99	<=13	PASS
	Mid	64QAM	5.79	<=13	PASS
	High	QPSK	5.95	<=13	PASS
	High	16QAM	6.73	<=13	PASS
	High	64QAM	6.62	<=13	PASS
5	Low	QPSK	4.94	<=13	PASS
	Low	16QAM	5.60	<=13	PASS
	Low	64QAM	5.54	<=13	PASS
	Mid	QPSK	5.18	<=13	PASS
	Mid	16QAM	5.89	<=13	PASS
	Mid	64QAM	5.93	<=13	PASS
	High	QPSK	5.93	<=13	PASS
	High	16QAM	6.60	<=13	PASS
	High	64QAM	6.50	<=13	PASS
10	Low	QPSK	5.19	<=13	PASS
	Low	16QAM	5.80	<=13	PASS
	Low	64QAM	5.86	<=13	PASS
	Mid	QPSK	5.29	<=13	PASS
	Mid	16QAM	6.06	<=13	PASS
	Mid	64QAM	6.10	<=13	PASS
	High	QPSK	5.79	<=13	PASS
	High	16QAM	6.50	<=13	PASS
	High	64QAM	6.51	<=13	PASS

15	Low	QPSK	5.03	<=13	PASS
	Low	16QAM	5.83	<=13	PASS
	Low	64QAM	5.82	<=13	PASS
	Mid	QPSK	5.07	<=13	PASS
	Mid	16QAM	5.86	<=13	PASS
	Mid	64QAM	5.86	<=13	PASS
	High	QPSK	5.66	<=13	PASS
	High	16QAM	6.43	<=13	PASS
	High	64QAM	6.36	<=13	PASS
20	Low	QPSK	5.06	<=13	PASS
	Low	16QAM	5.87	<=13	PASS
	Low	64QAM	5.87	<=13	PASS
	Mid	QPSK	5.24	<=13	PASS
	Mid	16QAM	5.98	<=13	PASS
	Mid	64QAM	5.98	<=13	PASS
	High	QPSK	5.52	<=13	PASS
	High	16QAM	6.32	<=13	PASS
	High	64QAM	6.29	<=13	PASS

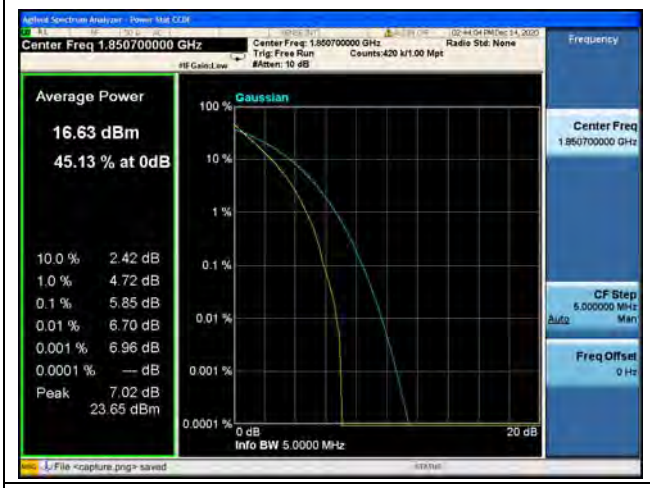
LTE Band 5					
BW(MHz)	**Channel Level**	**Modulation**	**PAR Radio(dB)**	**Limit(dB)**	**Verdict**
1.4	Low	QPSK	6.15	<=13	PASS
	Low	16QAM	6.97	<=13	PASS
	Low	64QAM	6.84	<=13	PASS
	Mid	QPSK	6.35	<=13	PASS
	Mid	16QAM	6.96	<=13	PASS
	Mid	64QAM	6.86	<=13	PASS
	High	QPSK	6.00	<=13	PASS
	High	16QAM	6.70	<=13	PASS
	High	64QAM	6.54	<=13	PASS
3	Low	QPSK	6.05	<=13	PASS
	Low	16QAM	6.76	<=13	PASS
	Low	64QAM	6.48	<=13	PASS
	Mid	QPSK	6.20	<=13	PASS
	Mid	16QAM	6.87	<=13	PASS
	Mid	64QAM	6.59	<=13	PASS
	High	QPSK	5.87	<=13	PASS
	High	16QAM	6.53	<=13	PASS
	High	64QAM	6.39	<=13	PASS
5	Low	QPSK	5.95	<=13	PASS
	Low	16QAM	6.49	<=13	PASS
	Low	64QAM	6.38	<=13	PASS
	Mid	QPSK	6.12	<=13	PASS
	Mid	16QAM	6.63	<=13	PASS
	Mid	64QAM	6.47	<=13	PASS
	High	QPSK	5.93	<=13	PASS
	High	16QAM	6.55	<=13	PASS
	High	64QAM	6.39	<=13	PASS
10	Low	QPSK	6.02	<=13	PASS
	Low	16QAM	6.57	<=13	PASS
	Low	64QAM	6.52	<=13	PASS
	Mid	QPSK	6.09	<=13	PASS
	Mid	16QAM	6.58	<=13	PASS
	Mid	64QAM	6.50	<=13	PASS
	High	QPSK	5.38	<=13	PASS
	High	16QAM	6.23	<=13	PASS
	High	64QAM	6.19	<=13	PASS

LTE Band 13					
BW(MHz)	**Channel Level**	**Modulation**	**PAR Radio(dB)**	**Limit(dB)**	**Verdict**
5	Low	QPSK	5.31	<=13	PASS
	Low	16QAM	6.02	<=13	PASS
	Low	64QAM	5.94	<=13	PASS
	Mid	QPSK	5.73	<=13	PASS
	Mid	16QAM	6.41	<=13	PASS
	Mid	64QAM	6.33	<=13	PASS
	High	QPSK	5.56	<=13	PASS
	High	16QAM	5.61	<=13	PASS
	High	64QAM	5.59	<=13	PASS
10	Mid	QPSK	4.69	<=13	PASS
	Mid	16QAM	6.18	<=13	PASS
	Mid	64QAM	6.21	<=13	PASS

LTE Band 66					
BW(MHz)	**Channel Level**	**Modulation**	**PAR Radio(dB)**	**Limit(dB)**	**Verdict**
1.4	Low	QPSK	5.16	<=13	PASS
	Low	16QAM	5.92	<=13	PASS
	Low	64QAM	4.31	<=13	PASS
	Mid	QPSK	5.47	<=13	PASS
	Mid	16QAM	6.36	<=13	PASS
	Mid	64QAM	5.22	<=13	PASS
	High	QPSK	5.10	<=13	PASS
	High	16QAM	5.89	<=13	PASS
	High	64QAM	4.68	<=13	PASS
3	Low	QPSK	6.04	<=13	PASS
	Low	16QAM	6.05	<=13	PASS
	Low	64QAM	4.70	<=13	PASS
	Mid	QPSK	5.60	<=13	PASS
	Mid	16QAM	6.50	<=13	PASS
	Mid	64QAM	4.86	<=13	PASS
	High	QPSK	5.96	<=13	PASS
	High	16QAM	5.21	<=13	PASS
	High	64QAM	5.03	<=13	PASS
5	Low	QPSK	5.38	<=13	PASS
	Low	16QAM	6.15	<=13	PASS
	Low	64QAM	4.70	<=13	PASS
	Mid	QPSK	5.60	<=13	PASS
	Mid	16QAM	6.39	<=13	PASS
	Mid	64QAM	4.86	<=13	PASS
	High	QPSK	5.30	<=13	PASS
	High	16QAM	5.91	<=13	PASS
	High	64QAM	4.61	<=13	PASS
10	Low	QPSK	5.64	<=13	PASS
	Low	16QAM	6.32	<=13	PASS
	Low	64QAM	6.38	<=13	PASS
	Mid	QPSK	6.33	<=13	PASS
	Mid	16QAM	5.93	<=13	PASS
	Mid	64QAM	6.07	<=13	PASS
	High	QPSK	6.46	<=13	PASS
	High	16QAM	6.48	<=13	PASS
	High	64QAM	6.17	<=13	PASS

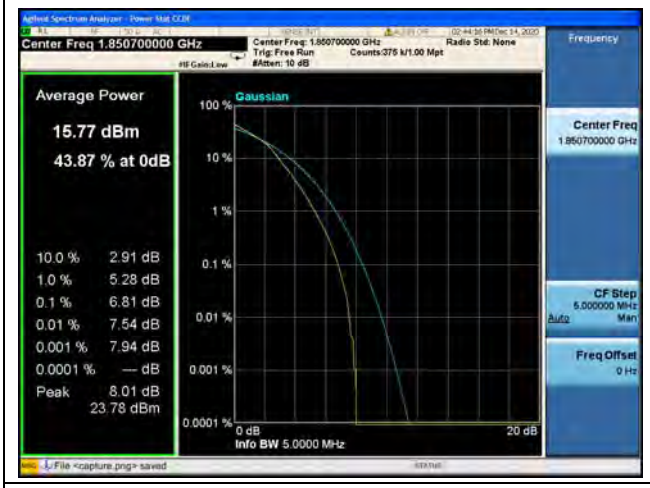
15	Low	QPSK	5.01	<=13	PASS
	Low	16QAM	5.87	<=13	PASS
	Low	64QAM	6.86	<=13	PASS
	Mid	QPSK	5.49	<=13	PASS
	Mid	16QAM	6.22	<=13	PASS
	Mid	64QAM	6.86	<=13	PASS
	High	QPSK	5.20	<=13	PASS
	High	16QAM	6.05	<=13	PASS
	High	64QAM	6.88	<=13	PASS
20	Low	QPSK	4.99	<=13	PASS
	Low	16QAM	5.81	<=13	PASS
	Low	64QAM	7.50	<=13	PASS
	Mid	QPSK	5.28	<=13	PASS
	Mid	16QAM	5.30	<=13	PASS
	Mid	64QAM	7.43	<=13	PASS
	High	QPSK	5.36	<=13	PASS
	High	16QAM	6.19	<=13	PASS
	High	64QAM	7.40	<=13	PASS

Band2 / 1.4MHz / Low CH / QPSK



Band2 / 1.4MHz / Low CH / 16QAM

Band2 / 1.4MHz / Low CH / 64QAM

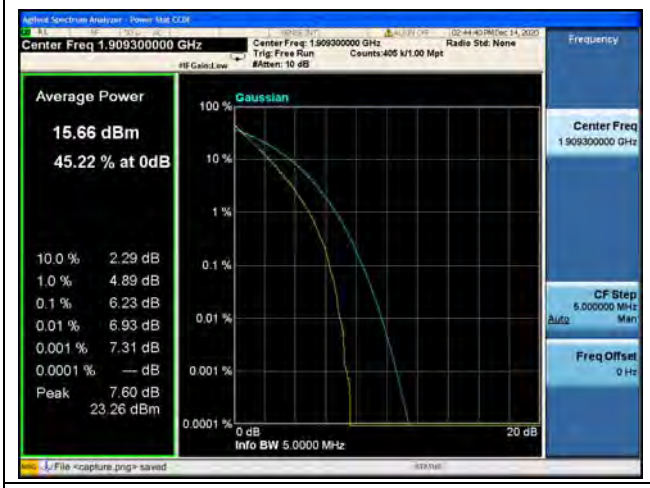


Band2 / 1.4MHz / Mid CH / QPSK

Band2 / 1.4MHz / Mid CH / 16QAM

Band2 / 1.4MHz / Mid CH / 64QAM

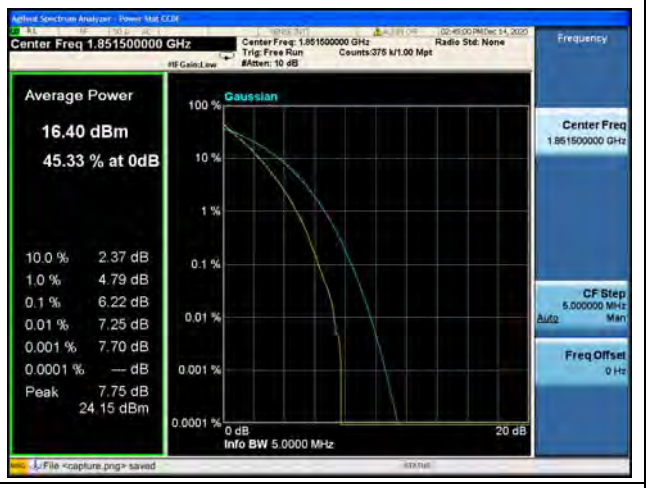
Band2 / 1.4MHz / High CH / QPSK



Band2 / 1.4MHz / High CH / 16QAM

Band2 / 1.4MHz / High CH / 64QAM

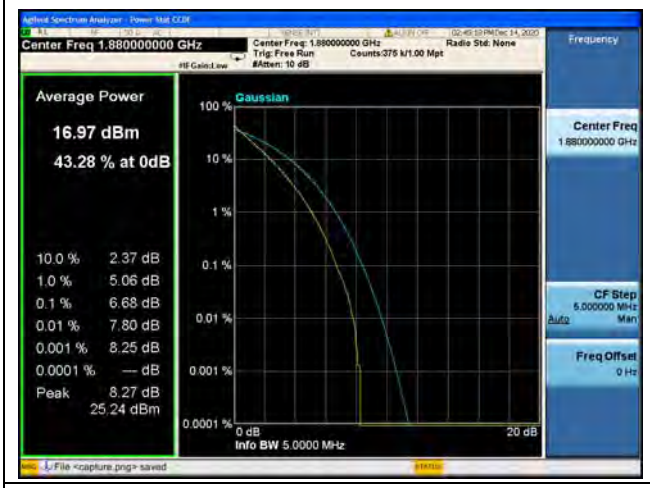
Band2 / 3MHz / Low CH / QPSK



Band2 / 3MHz / Low CH / 16QAM

Band2 / 3MHz / Low CH / 64QAM

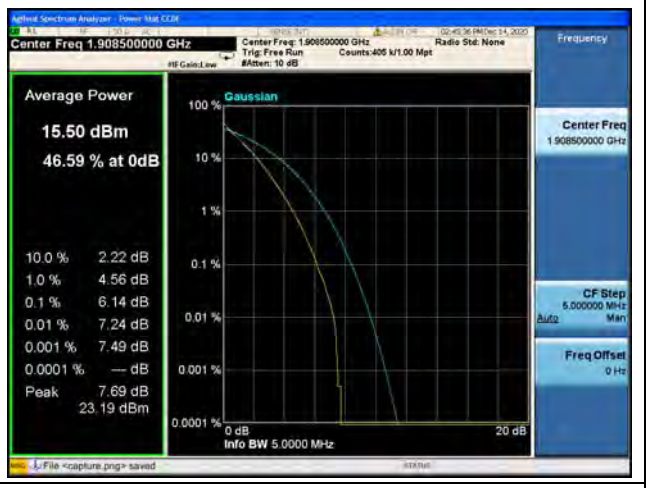
Band2 / 3MHz / Mid CH / QPSK



Band2 / 3MHz / Mid CH / 16QAM

Band2 / 3MHz / Mid CH / 64QAM

Band2 / 3MHz / High CH / QPSK



Band2 / 3MHz / High CH / 16QAM

Band2 / 3MHz / High CH / 64QAM

Band2 / 5MHz / Low CH / QPSK

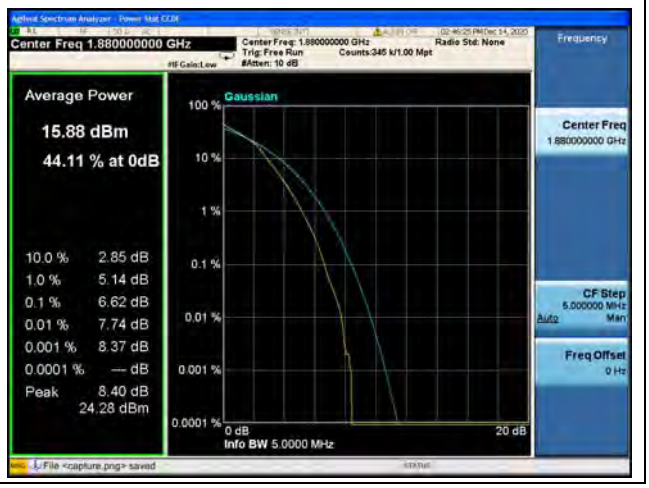
Band2 / 5MHz / Low CH / 16QAM

Band2 / 5MHz / Low CH / 64QAM

Band2 / 5MHz / Mid CH / QPSK

Band2 / 5MHz / Mid CH / 16QAM

Band2 / 5MHz / Mid CH / 64QAM



Band2 / 5MHz / High CH / QPSK

Band2 / 5MHz / High CH / 16QAM

Band2 / 5MHz / High CH / 64QAM

Band2 / 10MHz / Low CH / QPSK

Band2 / 10MHz / Low CH / 16QAM

Band2 / 10MHz / Low CH / 64QAM

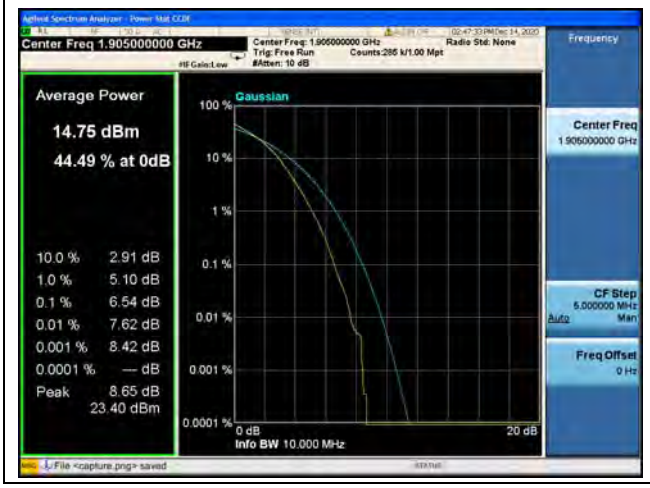
Band2 / 10MHz / Mid CH / QPSK

Band2 / 10MHz / Mid CH / 16QAM

Band2 / 10MHz / Mid CH / 64QAM

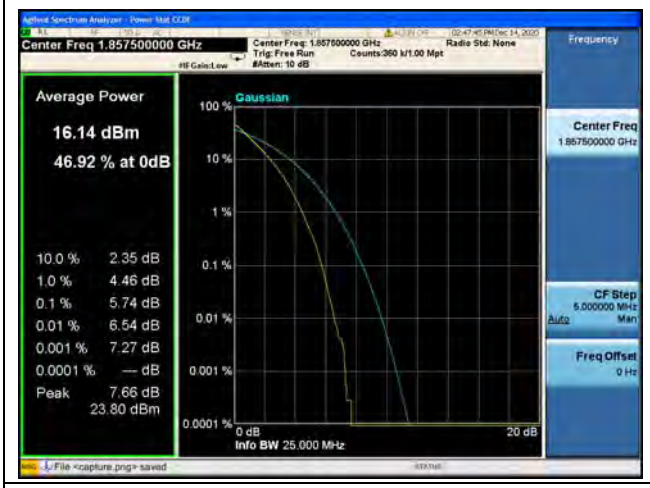
Band2 / 10MHz / High CH / QPSK

Band2 / 10MHz / High CH / 16QAM



Band2 / 10MHz / High CH / 64QAM

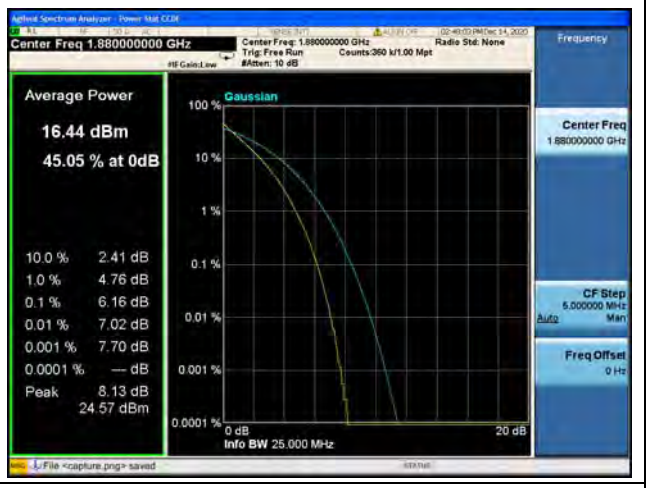
Band2 / 15MHz / Low CH / QPSK



Band2 / 15MHz / Low CH / 16QAM

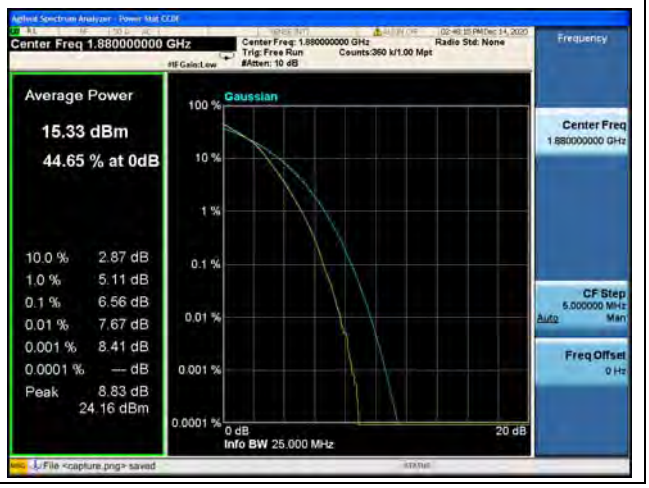
Band2 / 15MHz / Low CH / 64QAM

Band2 / 15MHz / Mid CH / QPSK



Band2 / 15MHz / Mid CH / 16QAM

Band2 / 15MHz / Mid CH / 64QAM



Band2 / 15MHz / High CH / QPSK

Band2 / 15MHz / High CH / 16QAM

Band2 / 15MHz / High CH / 64QAM

Band2 / 20MHz / Low CH / QPSK

Band2 / 20MHz / Low CH / 16QAM

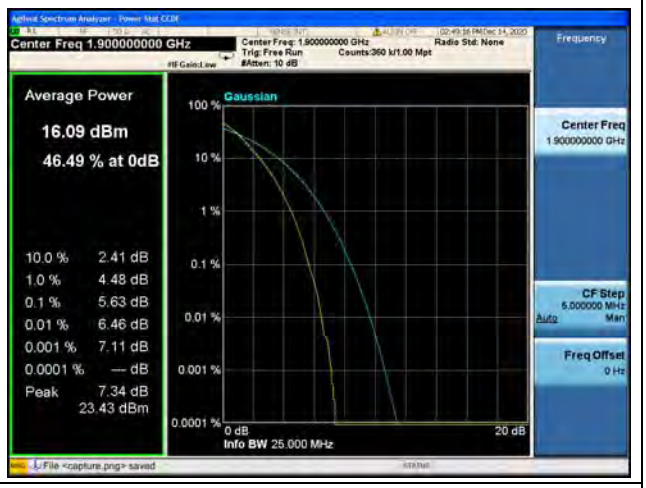
Band2 / 20MHz / Low CH / 64QAM

Band2 / 20MHz / Mid CH / QPSK

Band2 / 20MHz / Mid CH / 16QAM

Band2 / 20MHz / Mid CH / 64QAM

Band2 / 20MHz / High CH / QPSK



Band2 / 20MHz / High CH / 16QAM

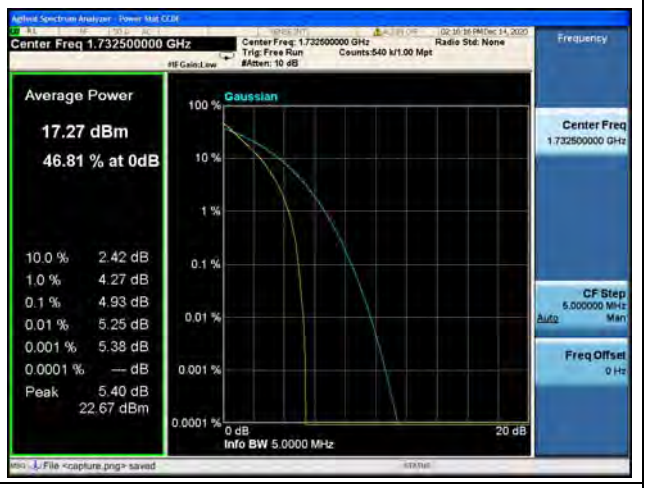
Band2 / 20MHz / High CH / 64QAM

Band4 / 1.4MHz / Low CH / QPSK

Band4 / 1.4MHz / Low CH / 16QAM

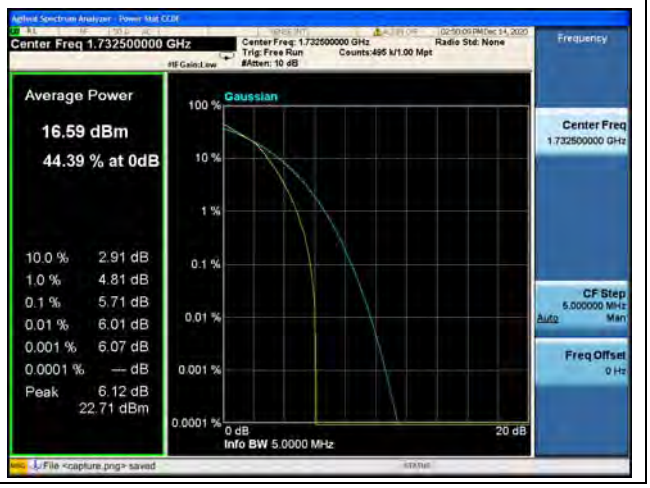
Band4 / 1.4MHz / Low CH / 64QAM

Band4 / 1.4MHz / Mid CH / QPSK

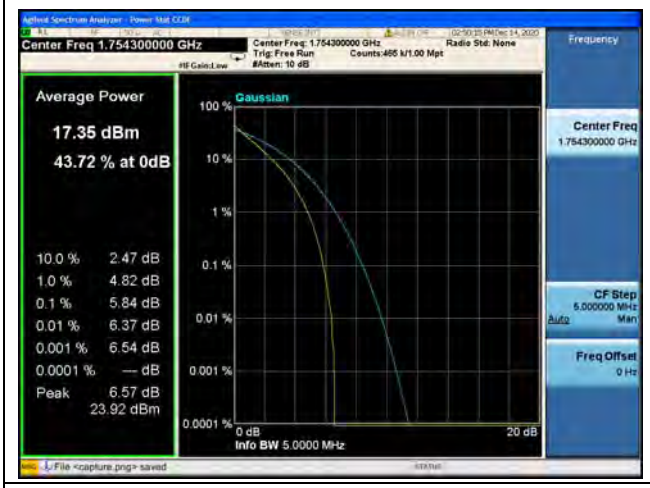


Band4 / 1.4MHz / Mid CH / 16QAM

Band4 / 1.4MHz / Mid CH / 64QAM



Band4 / 1.4MHz / High CH / QPSK



Band4 / 1.4MHz / High CH / 16QAM

Band4 / 1.4MHz / High CH / 64QAM

Band4 / 3MHz / Low CH / QPSK

Band4 / 3MHz / Low CH / 16QAM

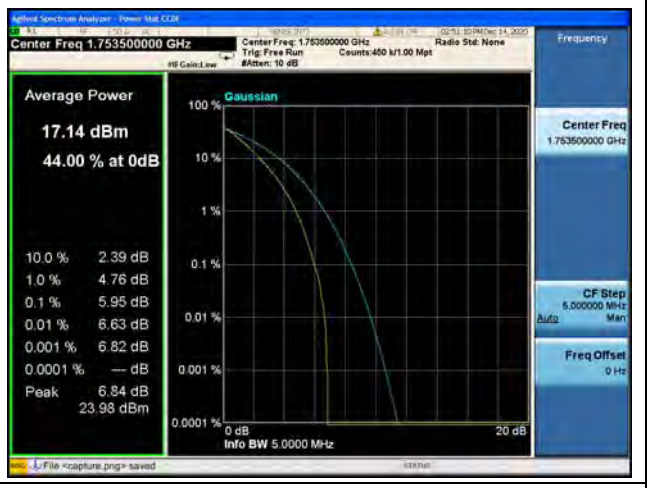
Band4 / 3MHz / Low CH / 64QAM

Band4 / 3MHz / Mid CH / QPSK

Band4 / 3MHz / Mid CH / 16QAM

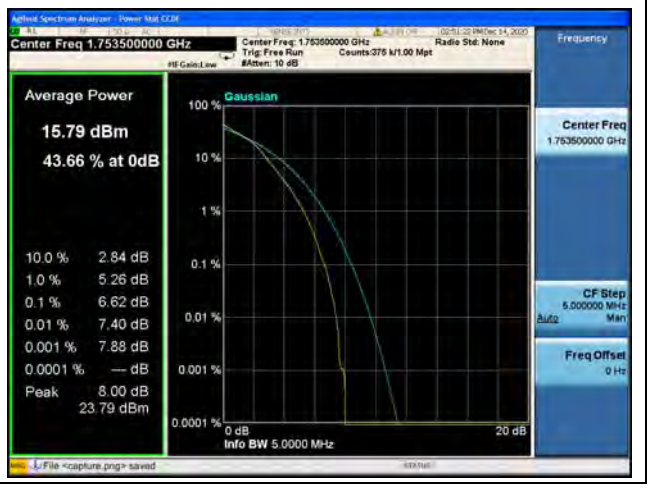
Band4 / 3MHz / Mid CH / 64QAM

Band4 / 3MHz / High CH / QPSK



Band4 / 3MHz / High CH / 16QAM

Band4 / 3MHz / High CH / 64QAM

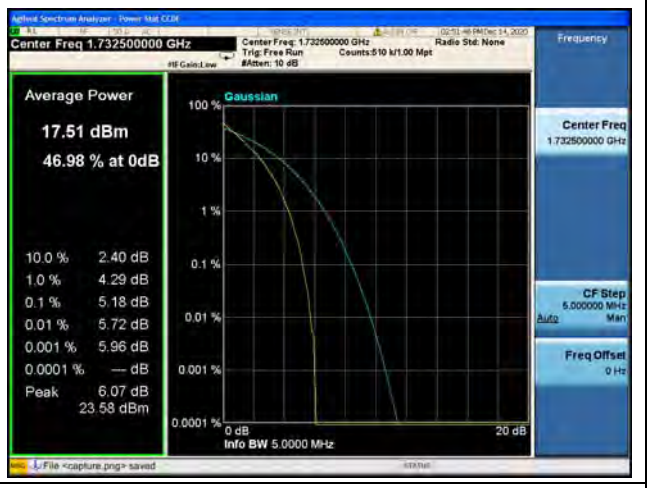


Band4 / 5MHz / Low CH / QPSK

Band4 / 5MHz / Low CH / 16QAM

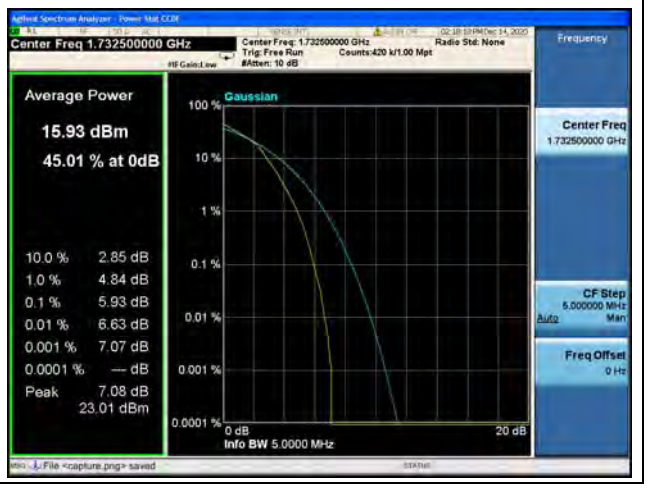
Band4 / 5MHz / Low CH / 64QAM

Band4 / 5MHz / Mid CH / QPSK



Band4 / 5MHz / Mid CH / 16QAM

Band4 / 5MHz / Mid CH / 64QAM



Band4 / 5MHz / High CH / QPSK

Band4 / 5MHz / High CH / 16QAM

Band4 / 5MHz / High CH / 64QAM

Band4 / 10MHz / Low CH / QPSK

Band4 / 10MHz / Low CH / 16QAM

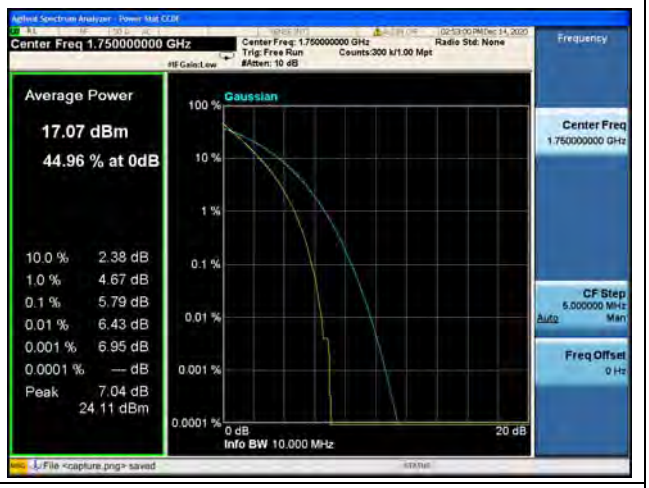
Band4 / 10MHz / Low CH / 64QAM

Band4 / 10MHz / Mid CH / QPSK

Band4 / 10MHz / Mid CH / 16QAM

Band4 / 10MHz / Mid CH / 64QAM

Band4 / 10MHz / High CH / QPSK



Band4 / 10MHz / High CH / 16QAM

Band4 / 10MHz / High CH / 64QAM

Band4 / 15MHz / Low CH / QPSK

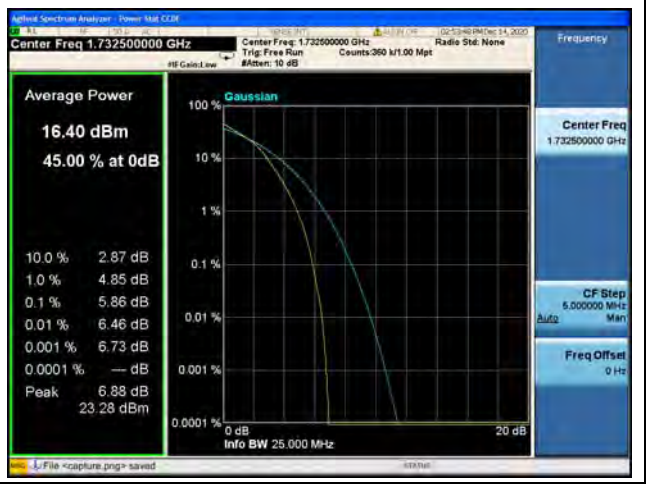
Band4 / 15MHz / Low CH / 16QAM

Band4 / 15MHz / Low CH / 64QAM

Band4 / 15MHz / Mid CH / QPSK

Band4 / 15MHz / Mid CH / 16QAM

Band4 / 15MHz / Mid CH / 64QAM

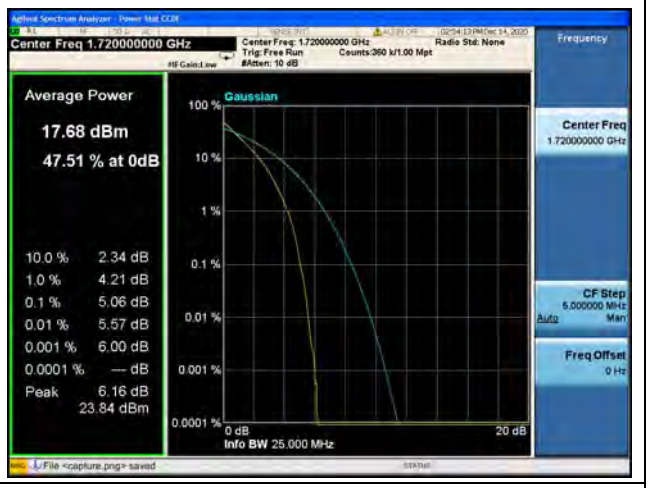


Band4 / 15MHz / High CH / QPSK

Band4 / 15MHz / High CH / 16QAM

Band4 / 15MHz / High CH / 64QAM

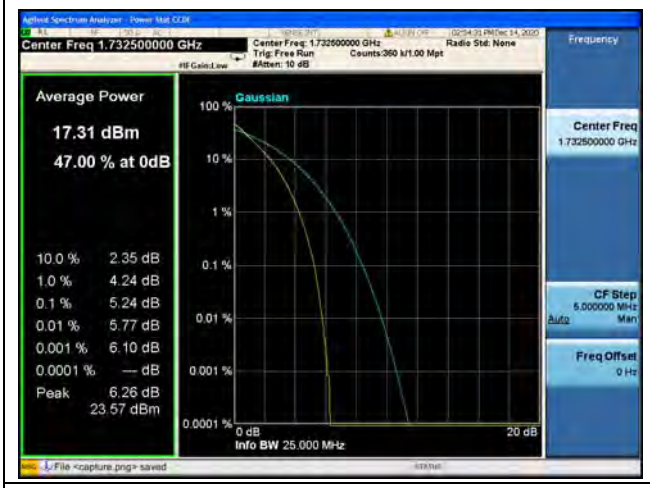
Band4 / 20MHz / Low CH / QPSK



Band4 / 20MHz / Low CH / 16QAM

Band4 / 20MHz / Low CH / 64QAM

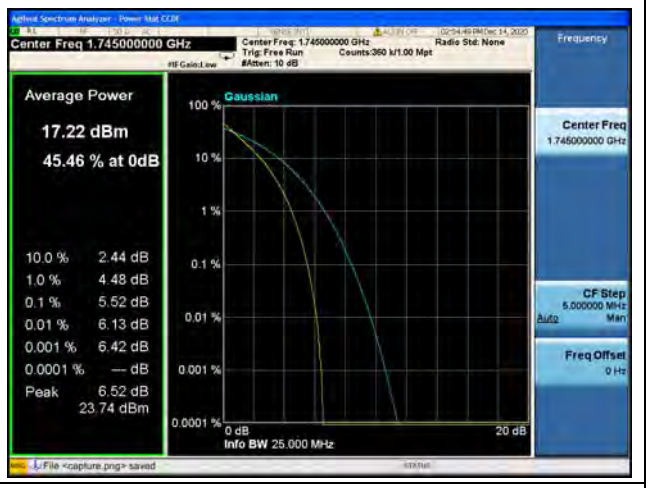
Band4 / 20MHz / Mid CH / QPSK



Band4 / 20MHz / Mid CH / 16QAM

Band4 / 20MHz / Mid CH / 64QAM

Band4 / 20MHz / High CH / QPSK



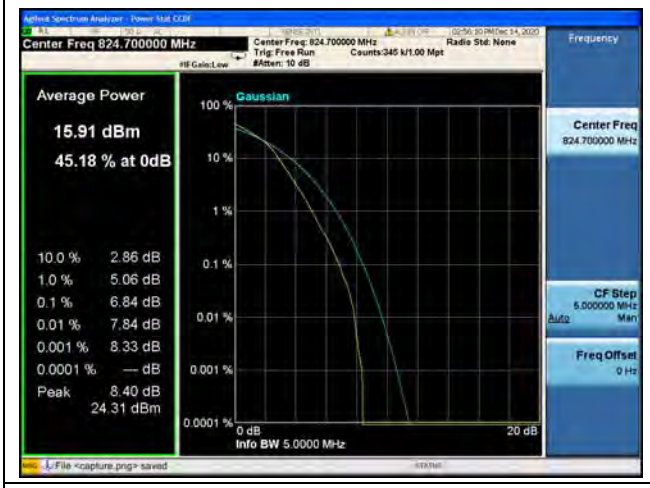
Band4 / 20MHz / High CH / 16QAM

Band4 / 20MHz / High CH / 64QAM

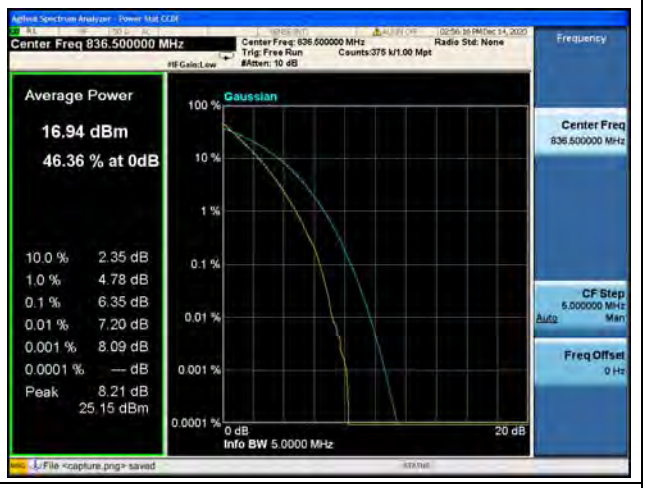
Band5 / 1.4MHz / Low CH / QPSK

Band5 / 1.4MHz / Low CH / 16QAM

Band5 / 1.4MHz / Low CH / 64QAM

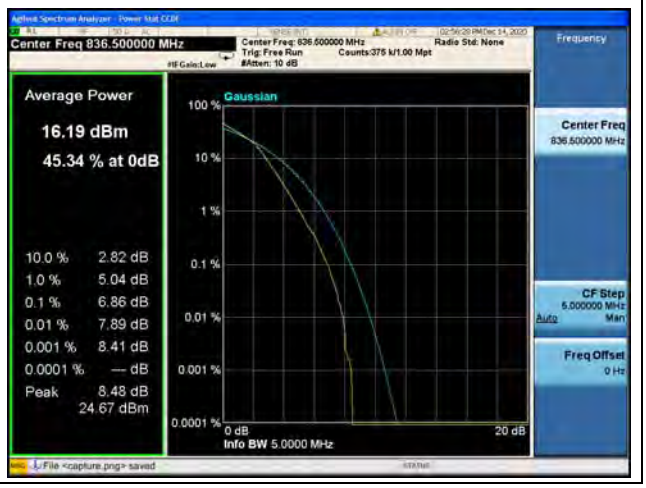


Band5 / 1.4MHz / Mid CH / QPSK



Band5 / 1.4MHz / Mid CH / 16QAM

Band5 / 1.4MHz / Mid CH / 64QAM

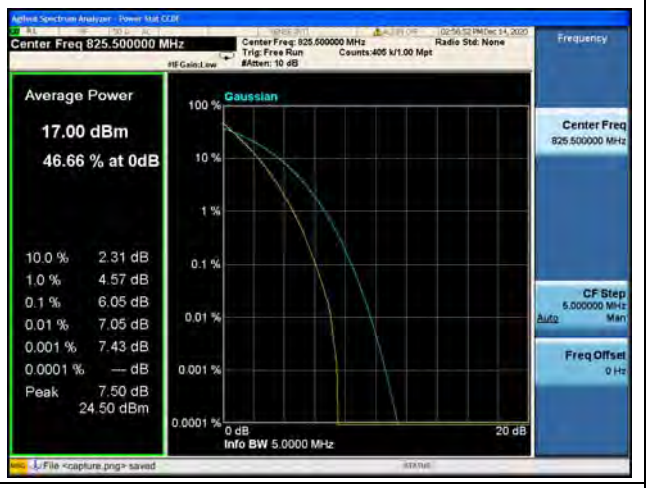


Band5 / 1.4MHz / High CH / QPSK

Band5 / 1.4MHz / High CH / 16QAM

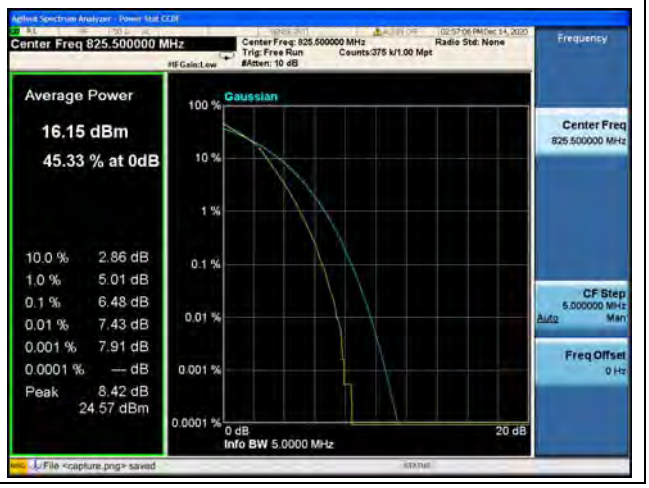
Band5 / 1.4MHz / High CH / 64QAM

Band5 / 3MHz / Low CH / QPSK



Band5 / 3MHz / Low CH / 16QAM

Band5 / 3MHz / Low CH / 64QAM

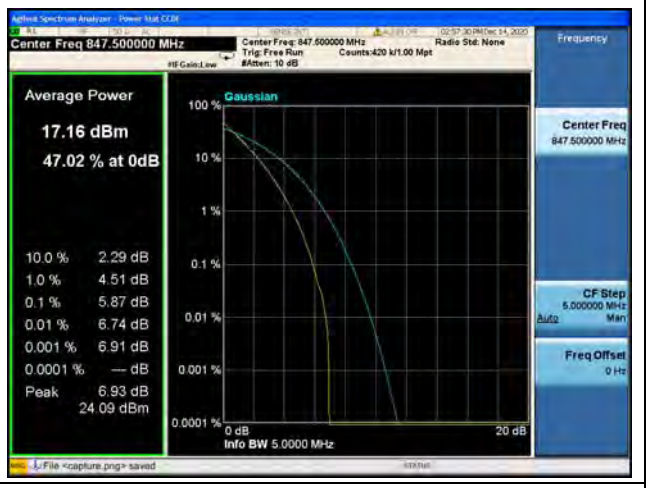


Band5 / 3MHz / Mid CH / QPSK

Band5 / 3MHz / Mid CH / 16QAM

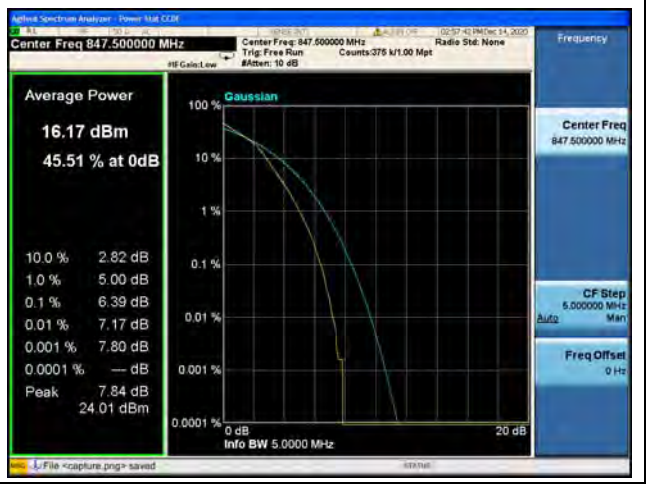
Band5 / 3MHz / Mid CH / 64QAM

Band5 / 3MHz / High CH / QPSK



Band5 / 3MHz / High CH / 16QAM

Band5 / 3MHz / High CH / 64QAM

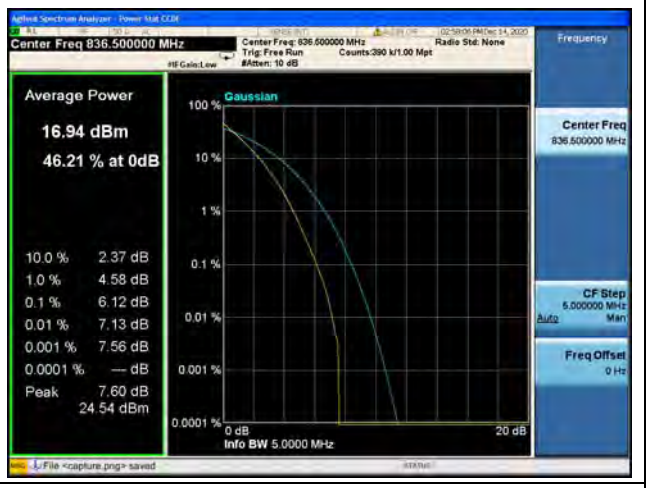


Band5 / 5MHz / Low CH / QPSK

Band5 / 5MHz / Low CH / 16QAM

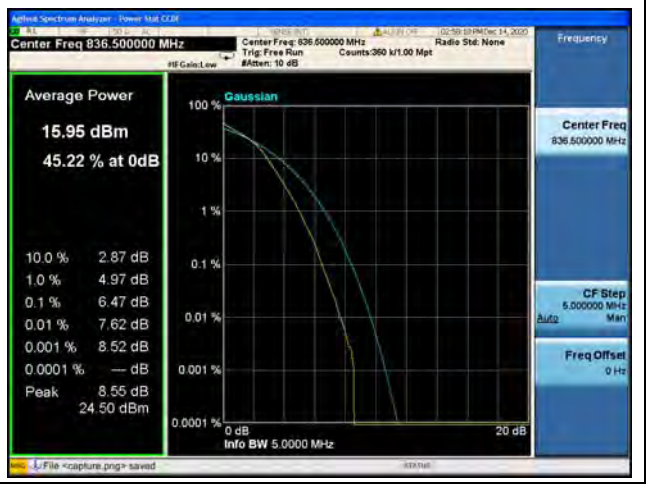
Band5 / 5MHz / Low CH / 64QAM

Band5 / 5MHz / Mid CH / QPSK



Band5 / 5MHz / Mid CH / 16QAM

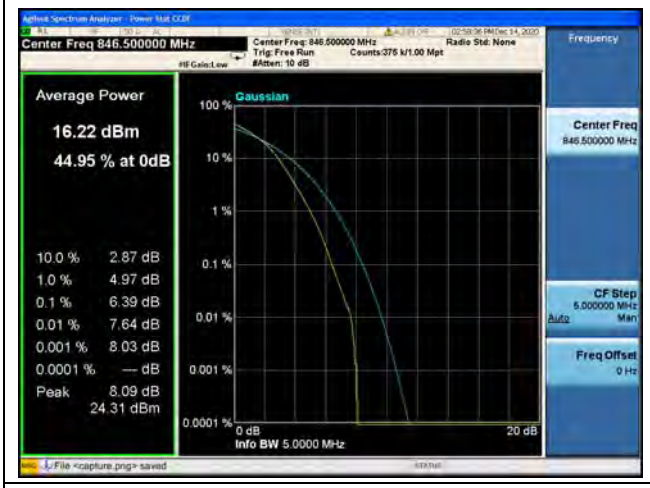
Band5 / 5MHz / Mid CH / 64QAM



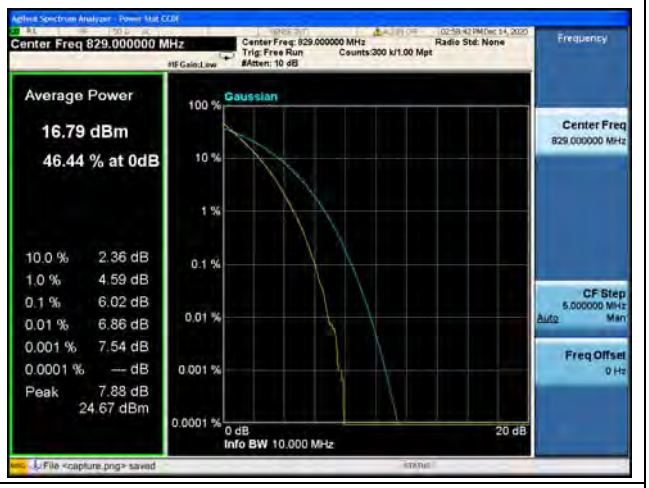
Band5 / 5MHz / High CH / QPSK

Band5 / 5MHz / High CH / 16QAM

Band5 / 5MHz / High CH / 64QAM

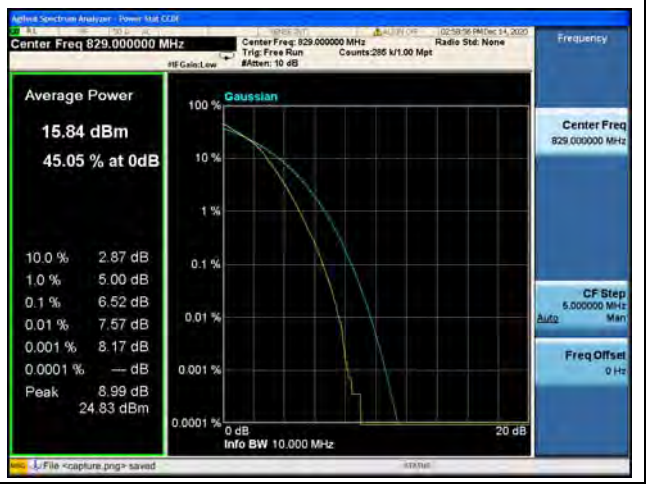


Band5 / 10MHz / Low CH / QPSK



Band5 / 10MHz / Low CH / 16QAM

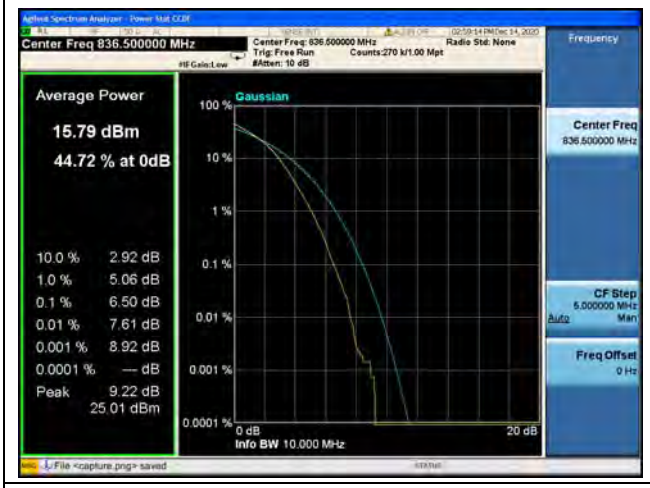
Band5 / 10MHz / Low CH / 64QAM



Band5 / 10MHz / Mid CH / QPSK

Band5 / 10MHz / Mid CH / 16QAM

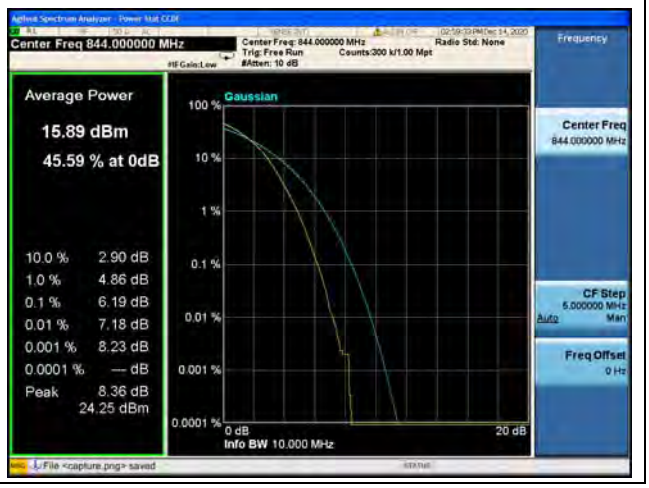
Band5 / 10MHz / Mid CH / 64QAM



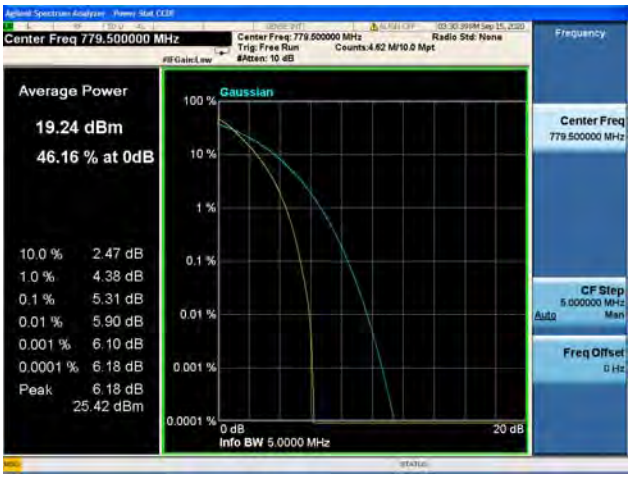
Band5 / 10MHz / High CH / QPSK

Band5 / 10MHz / High CH / 16QAM

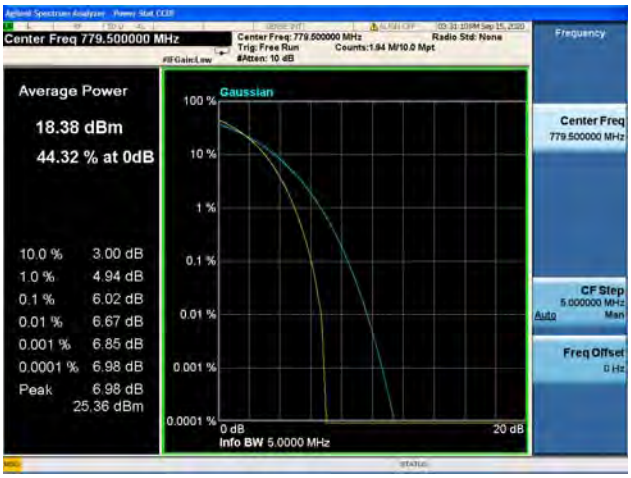
Band5 / 10MHz / High CH / 64QAM



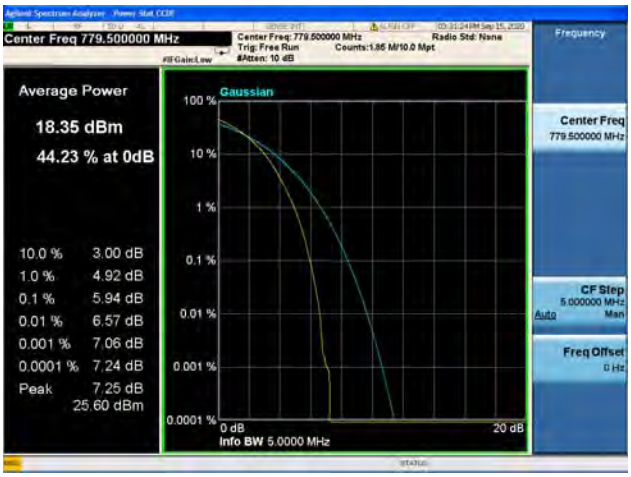
Band13 / 5MHz / Low CH / QPSK



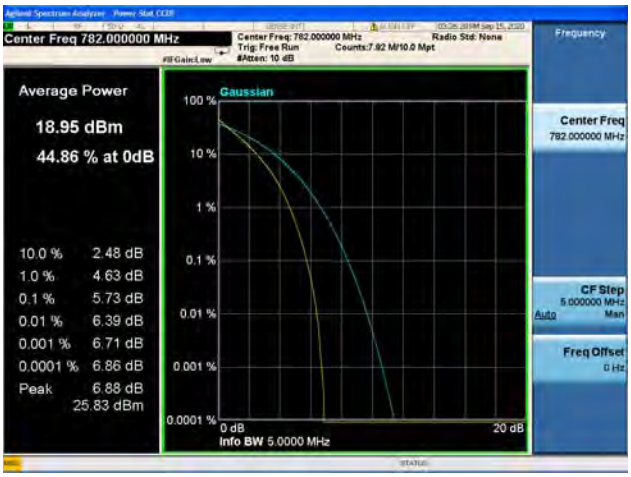
Band13 / 5MHz / Low CH / 16QAM



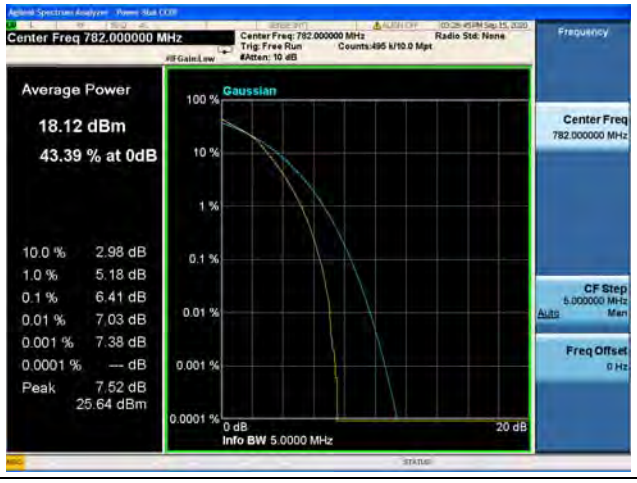
Band13 / 5MHz / Low CH / 64QAM



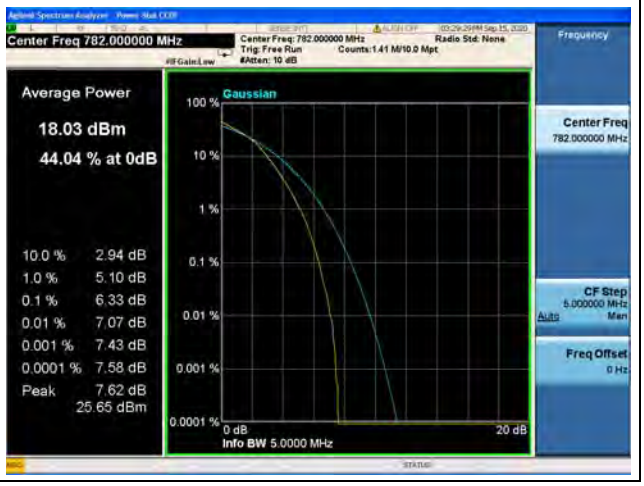
Band13 / 5MHz / Mid CH / QPSK



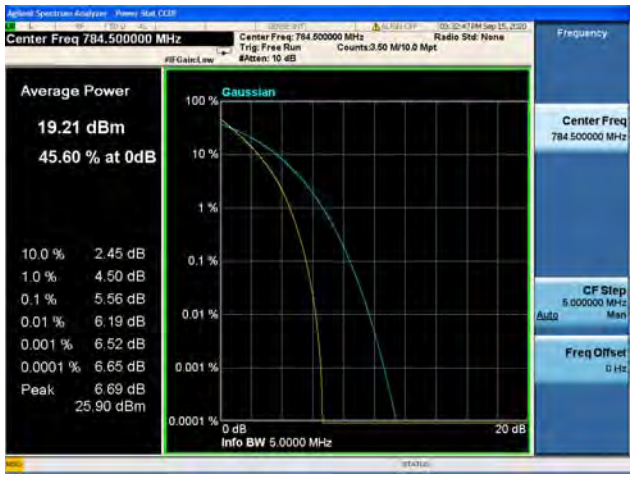
Band13 / 5MHz / Mid CH / 16QAM



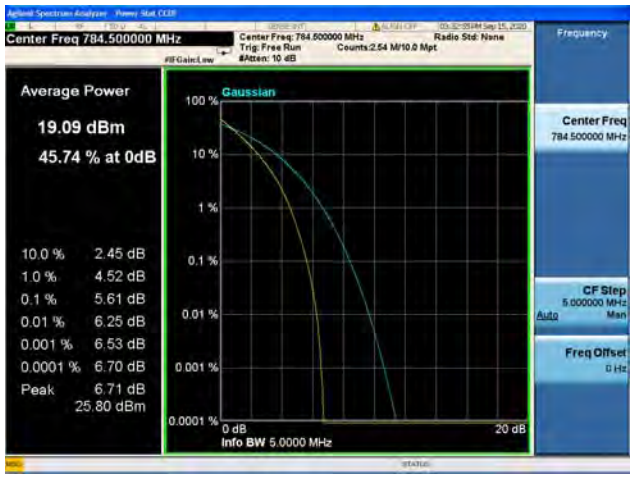
Band13 / 5MHz / Mid CH / 64QAM



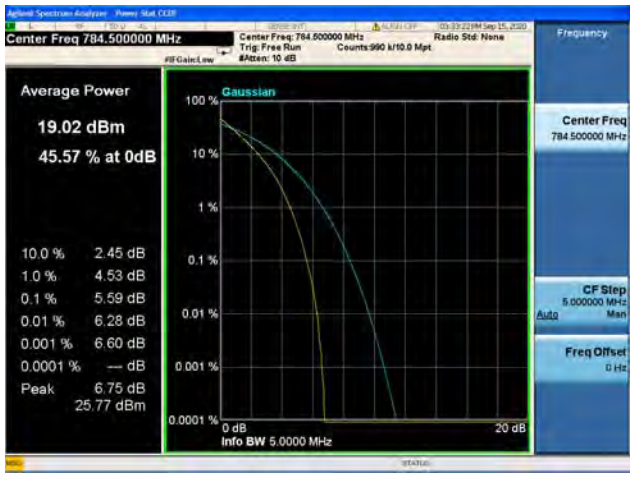
Band13 / 5MHz / High CH / QPSK



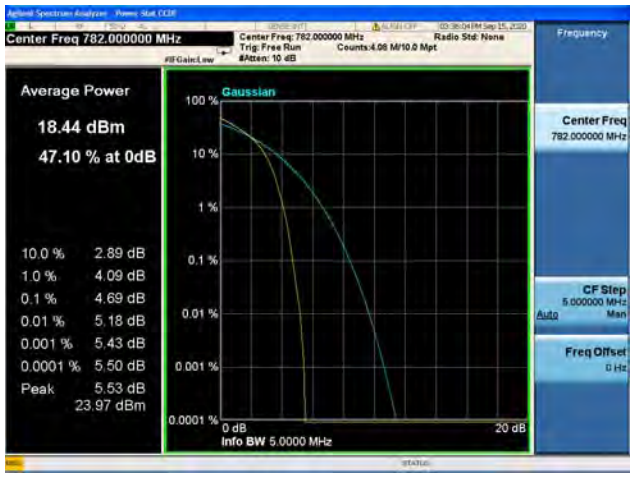
Band13 / 5MHz / High CH / 16QAM



Band13 / 5MHz / High CH / 64QAM

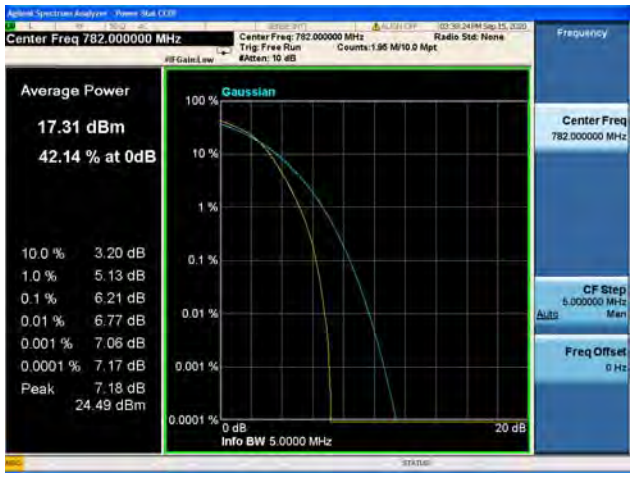


Band13 / 10MHz / Mid CH / QPSK

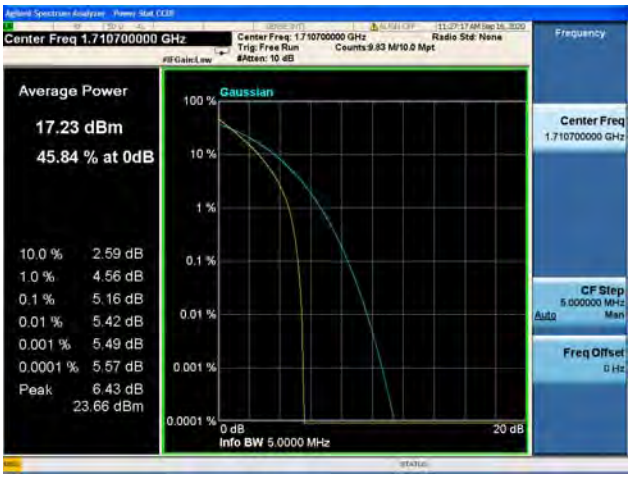


Band13 / 10MHz / Mid CH / 16QAM

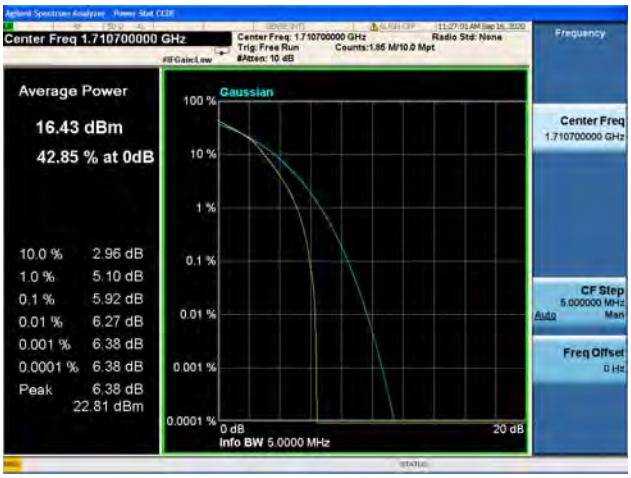
Band13 / 10MHz / Mid CH / 64QAM



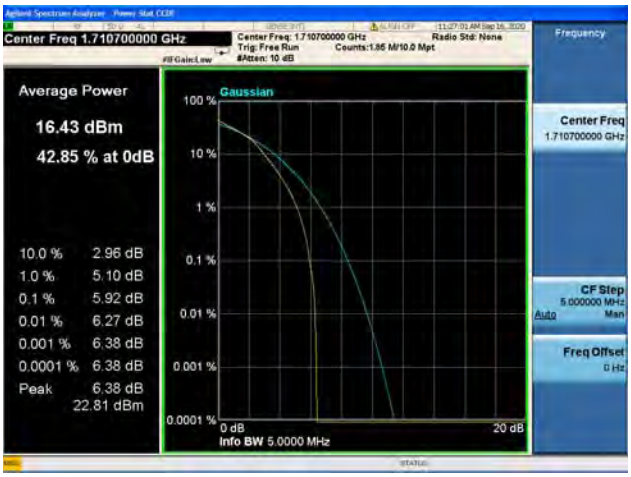
Band66 / 1.4MHz / Low CH / QPSK



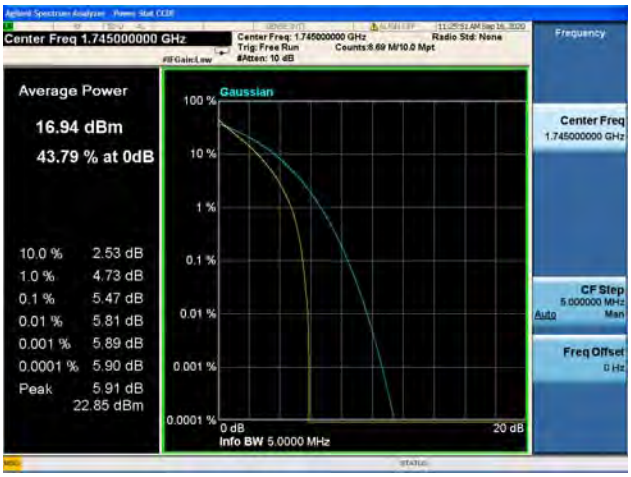
Band66 / 1.4MHz / Low CH / 16QAM



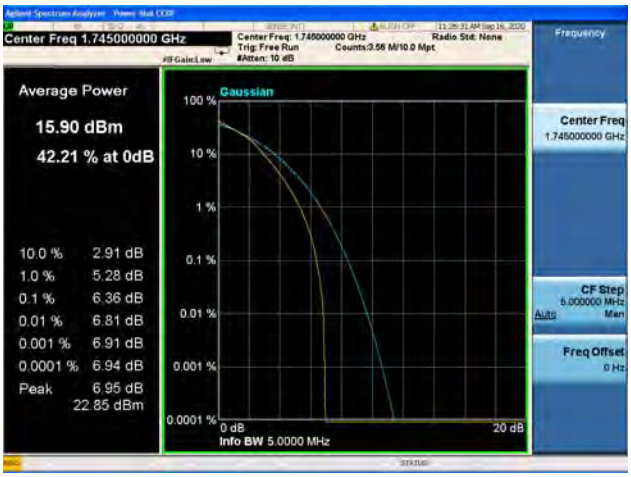
Band66 / 1.4MHz / Low CH / 64QAM



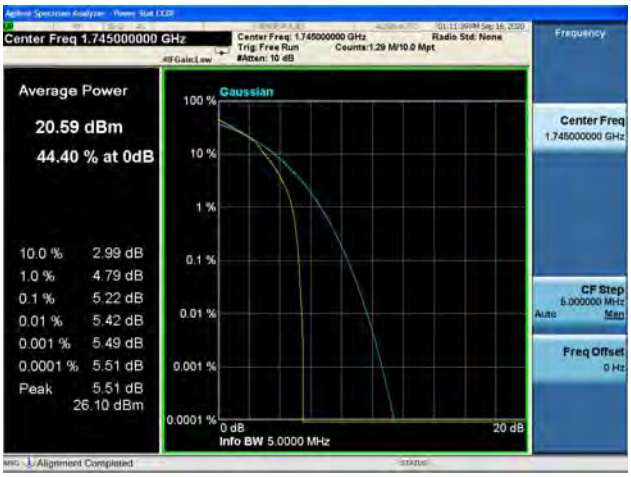
Band66 / 1.4MHz / Mid CH / QPSK



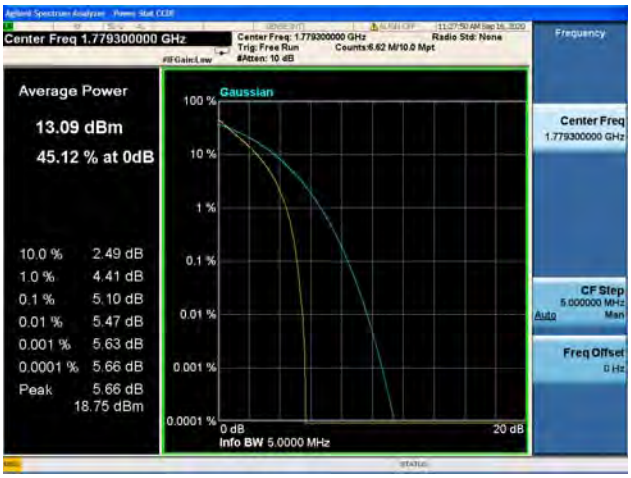
Band66 / 1.4MHz / Mid CH / 16QAM



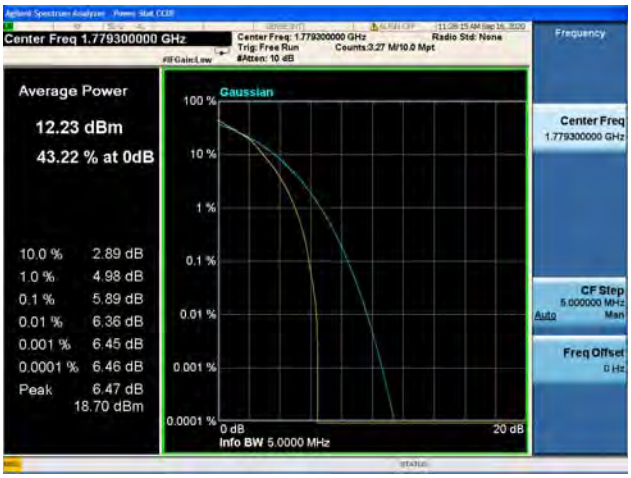
Band66 / 1.4MHz / Mid CH / 64QAM



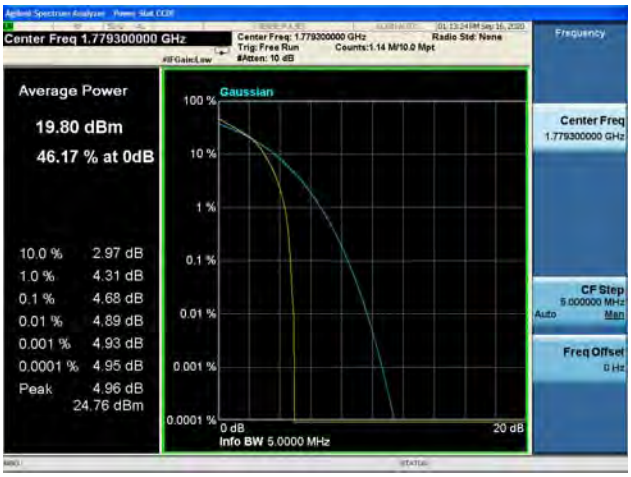
Band66 / 1.4MHz / High CH / QPSK



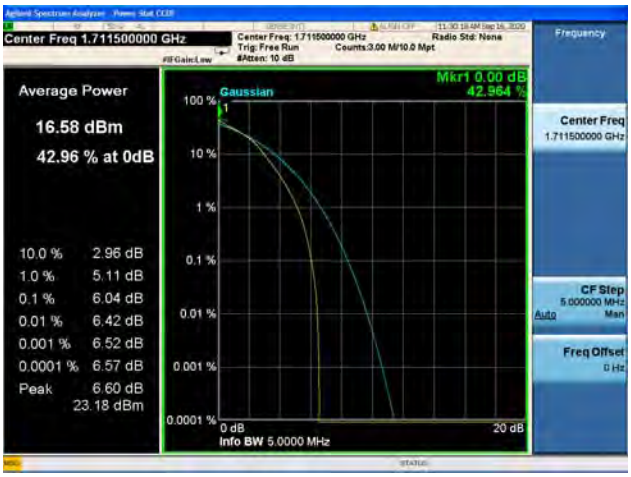
Band66 / 1.4MHz / High CH / 16QAM



Band66 / 1.4MHz / High CH / 64QAM

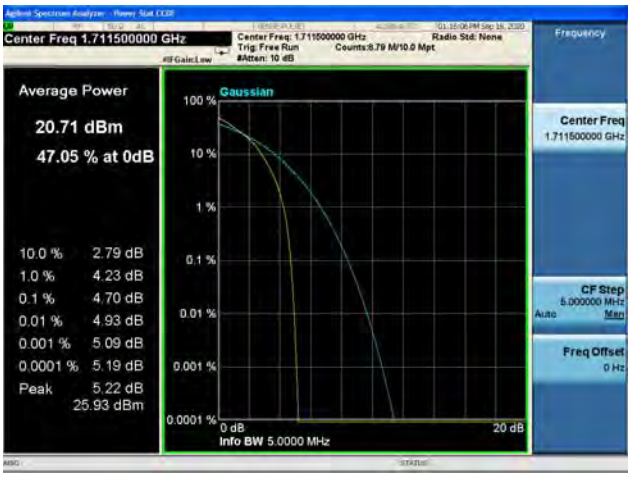


Band66 / 3MHz / Low CH / QPSK

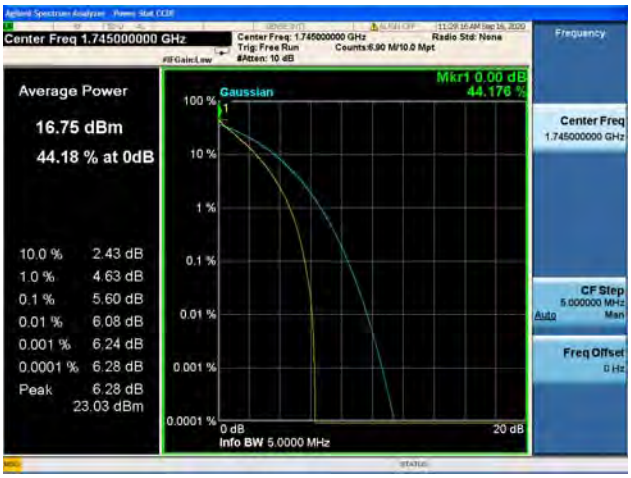


Band66 / 3MHz / Low CH / 16QAM

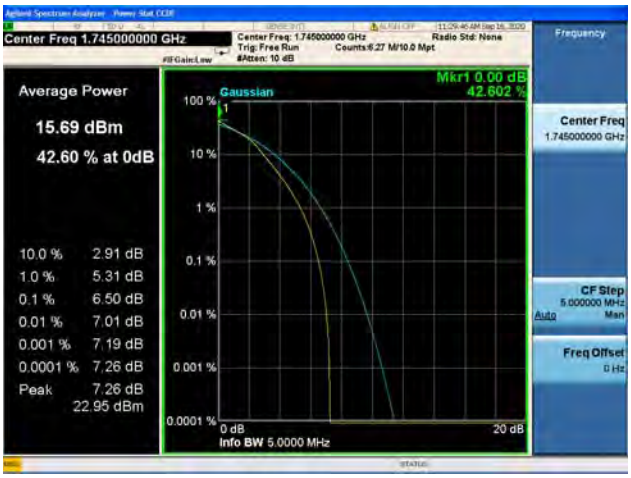
Band66 / 3MHz / Low CH / 64QAM



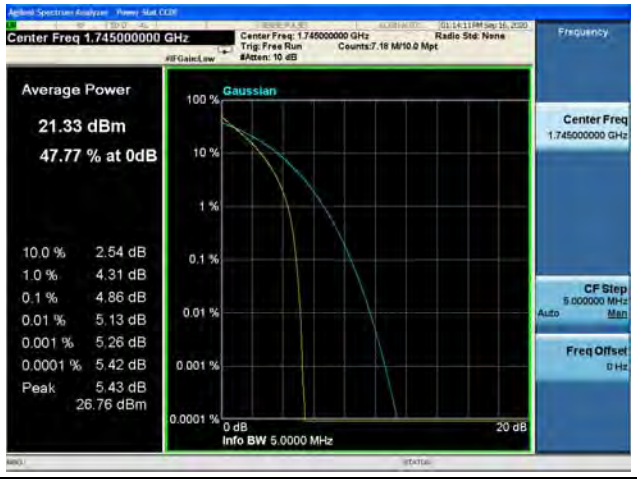
Band66 / 3MHz / Mid CH / QPSK



Band66 / 3MHz / Mid CH / 16QAM



Band66 / 3MHz / Mid CH / 64QAM

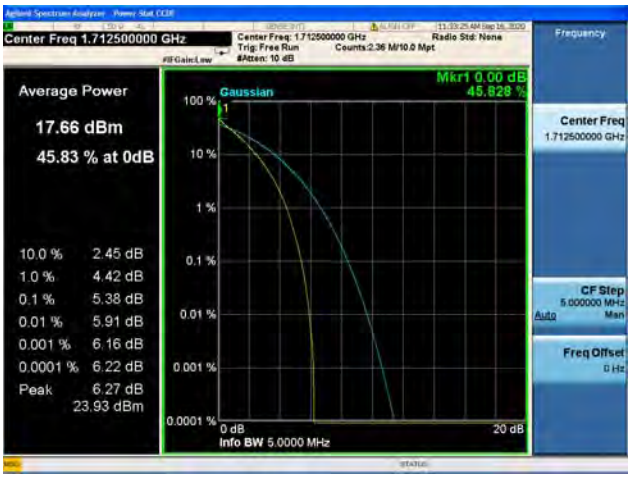


Band66 / 3MHz / High CH / QPSK

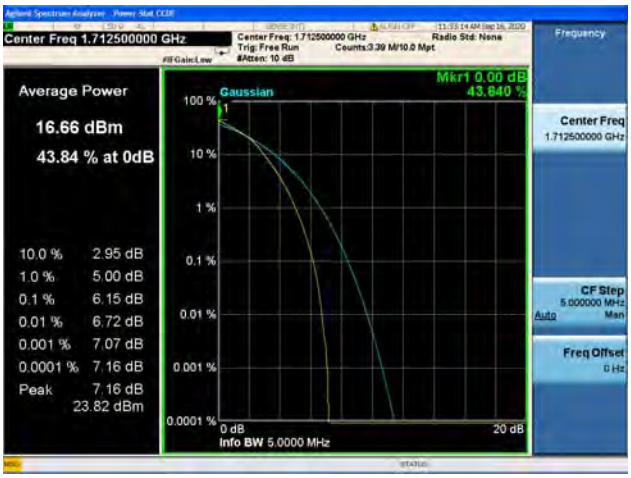
Band66 / 3MHz / High CH / 16QAM

Band66 / 3MHz / High CH / 64QAM

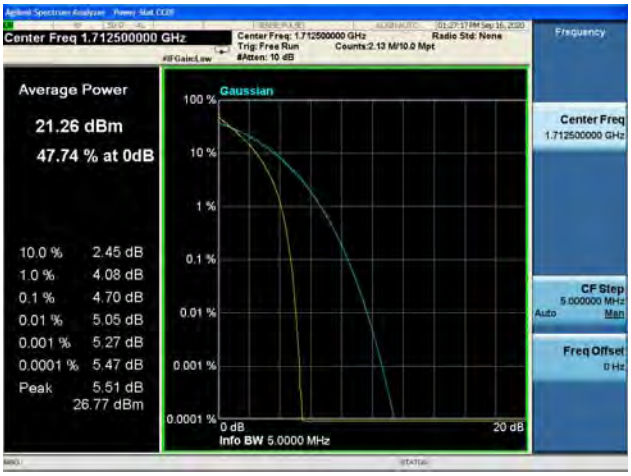
Band66 / 5MHz / Low CH / QPSK



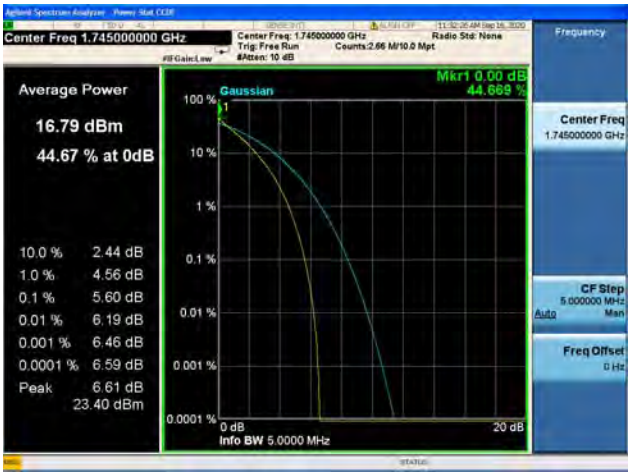
Band66 / 5MHz / Low CH / 16QAM



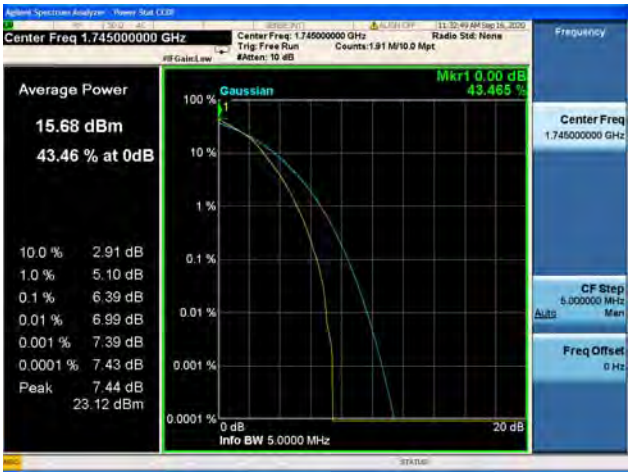
Band66 / 5MHz / Low CH / 64QAM



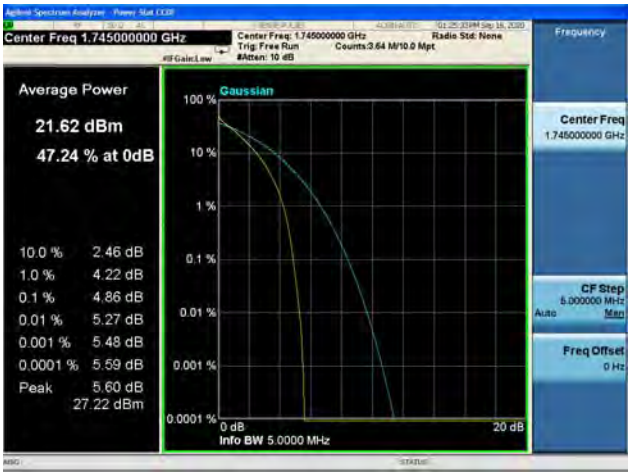
Band66 / 5MHz / Mid CH / QPSK



Band66 / 5MHz / Mid CH / 16QAM



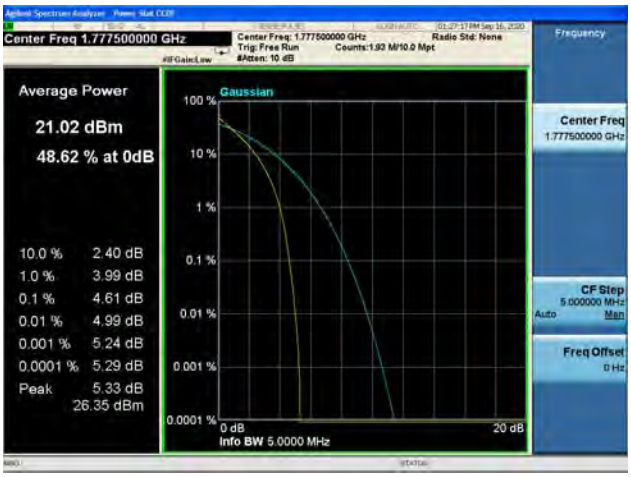
Band66 / 5MHz / Mid CH / 64QAM



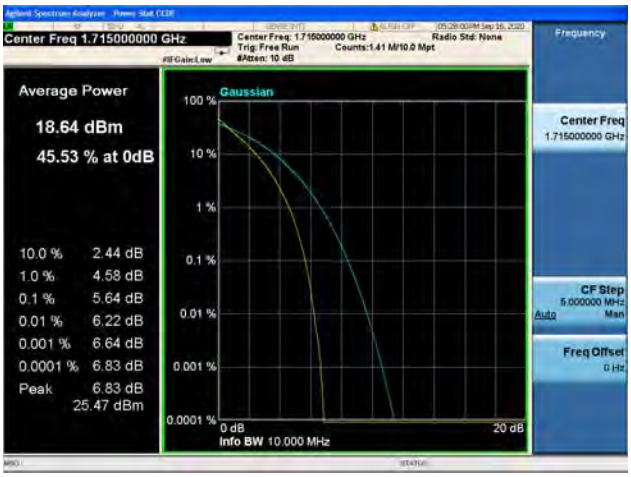
Band66 / 5MHz / High CH / QPSK

Band66 / 5MHz / High CH / 16QAM

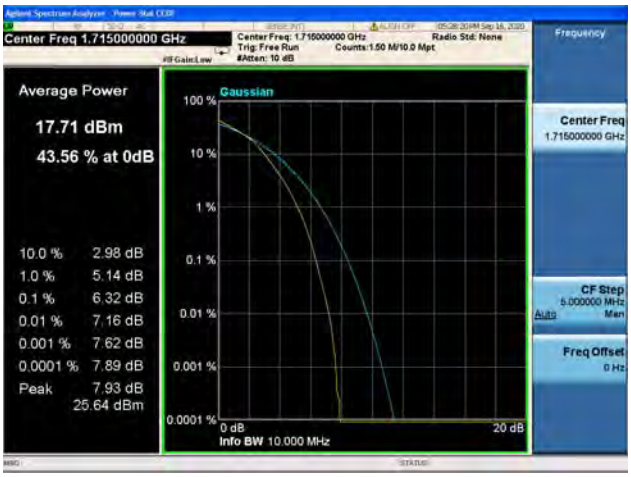
Band66 / 5MHz / High CH / 64QAM



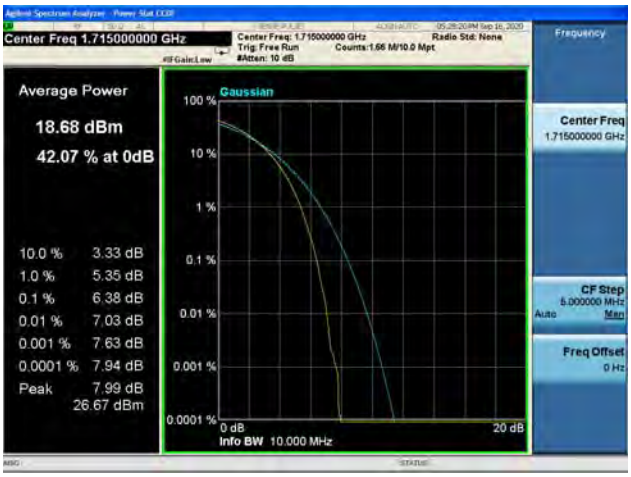
Band66 / 10MHz / Low CH / QPSK



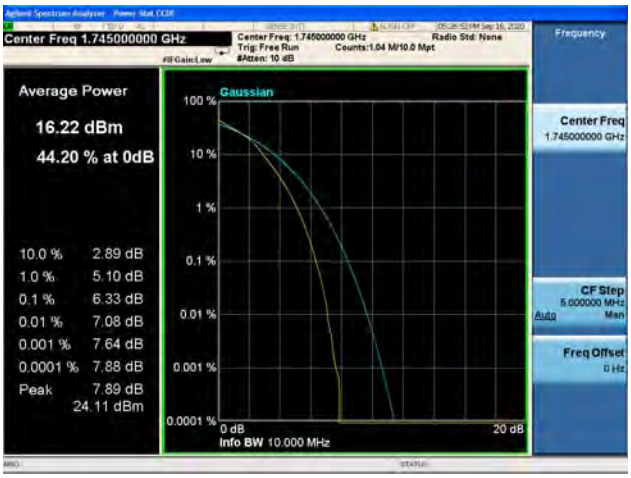
Band66 / 10MHz / Low CH / 16QAM



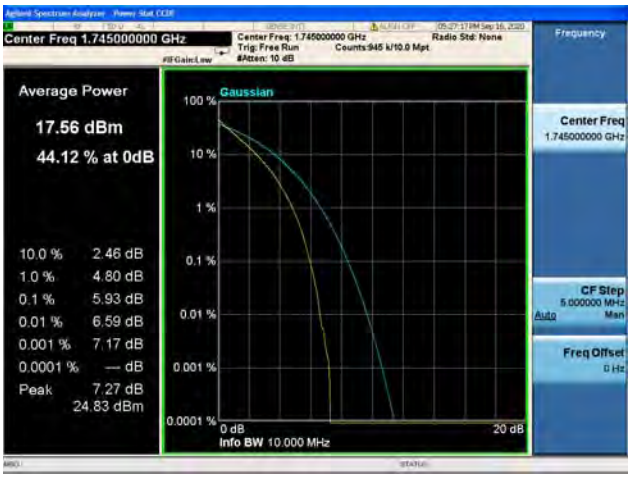
Band66 / 10MHz / Low CH / 64QAM



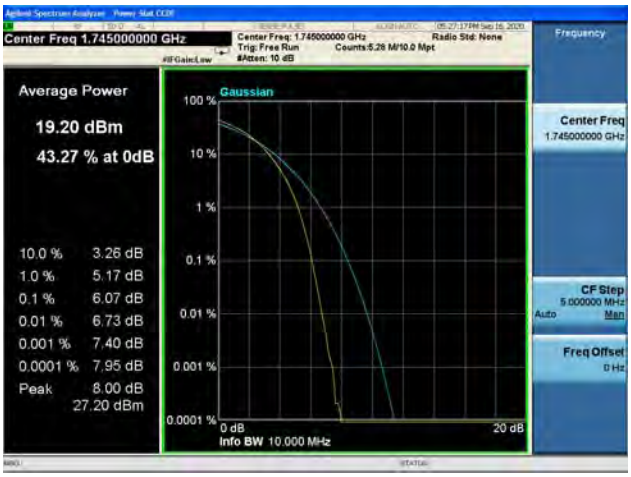
Band66 / 10MHz / Mid CH / QPSK



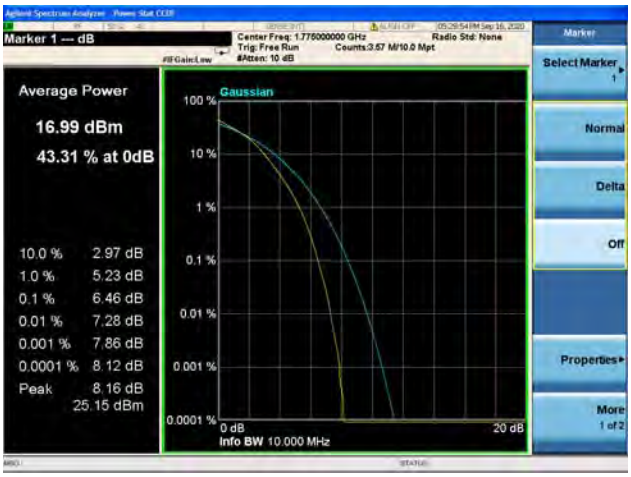
Band66 / 10MHz / Mid CH / 16QAM



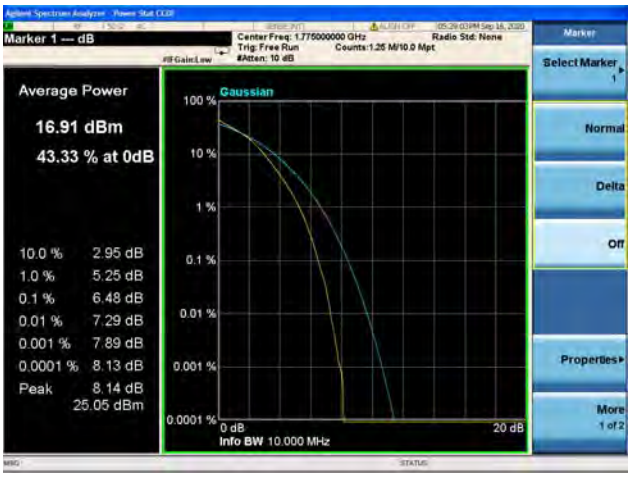
Band66 / 10MHz / Mid CH / 64QAM



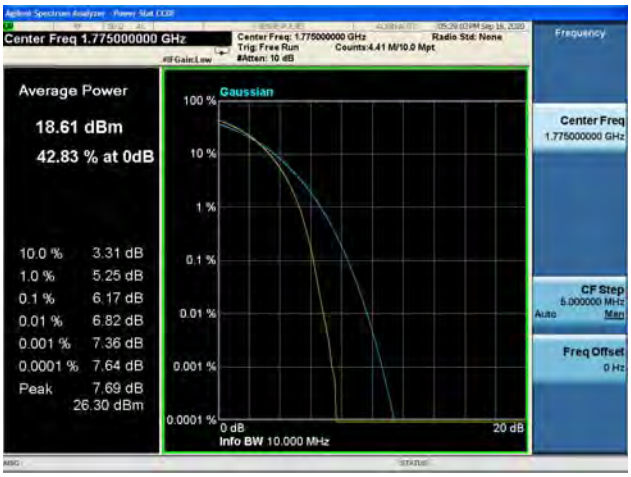
Band66 / 10MHz / High CH / QPSK



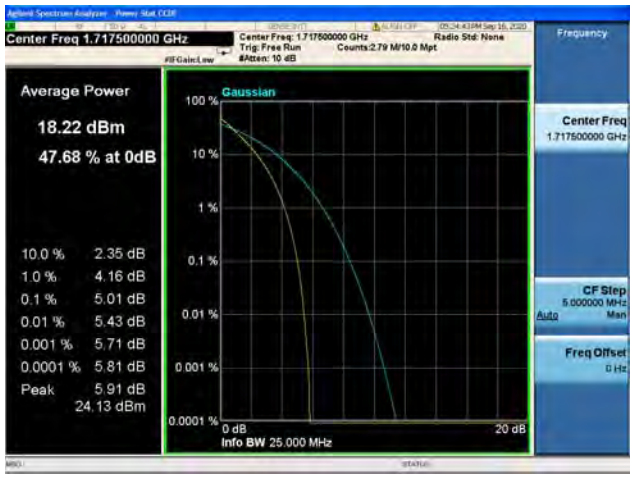
Band66 / 10MHz / High CH / 16QAM



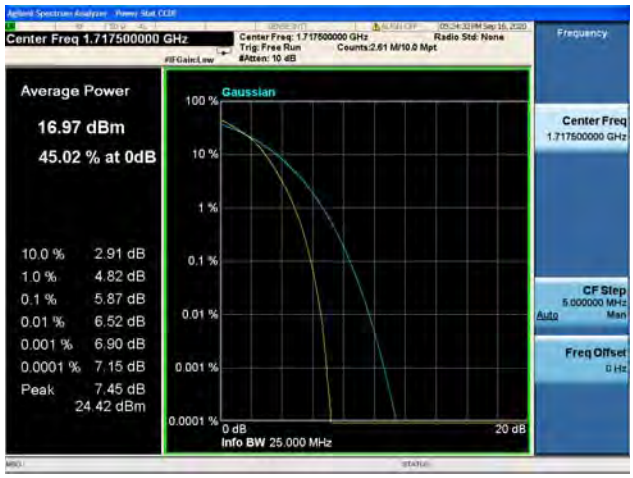
Band66 / 10MHz / High CH / 64QAM



Band66 / 15MHz / Low CH / QPSK



Band66 / 15MHz / Low CH / 16QAM



Band66 / 15MHz / Low CH / 64QAM

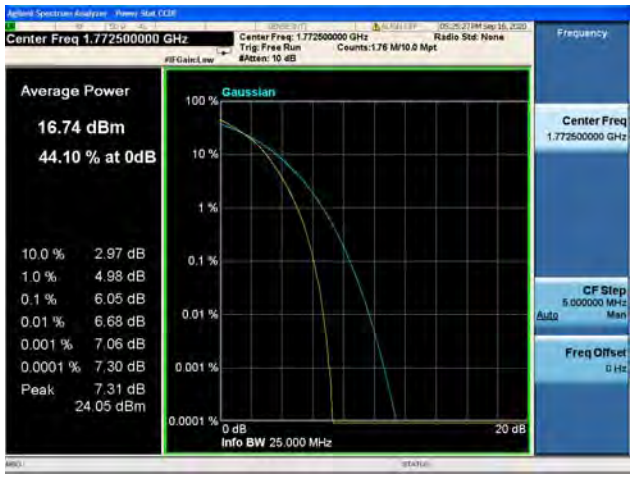
Band66 / 15MHz / Mid CH / QPSK

Band66 / 15MHz / Mid CH / 16QAM

Band66 / 15MHz / Mid CH / 64QAM

Band66 / 15MHz / High CH / QPSK

Band66 / 15MHz / High CH / 16QAM

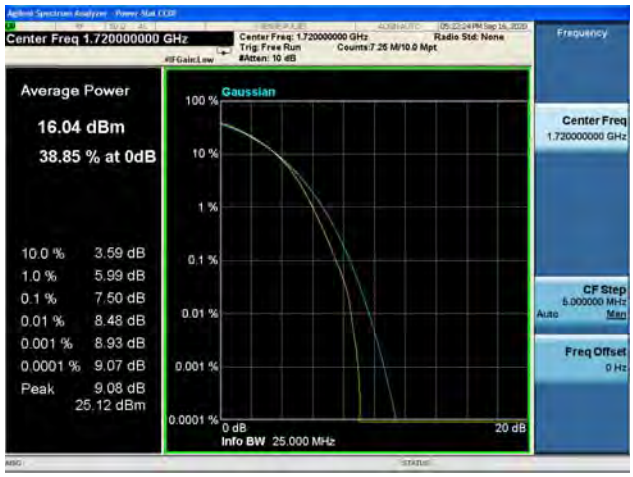


Band66 / 15MHz / High CH / 64QAM

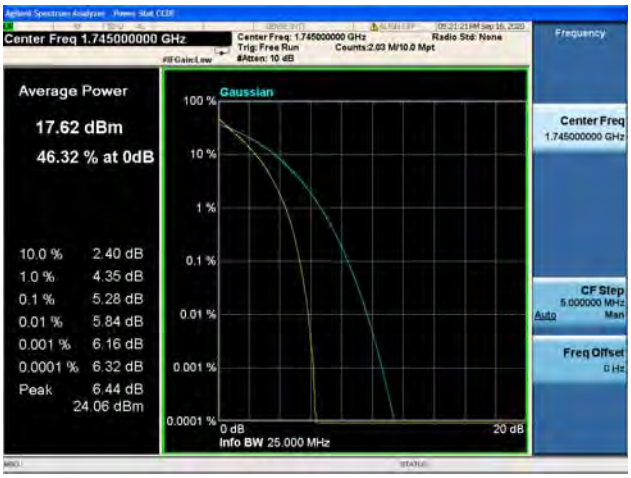
Band66 / 20MHz / Low CH / QPSK

Band66 / 20MHz / Low CH / 16QAM

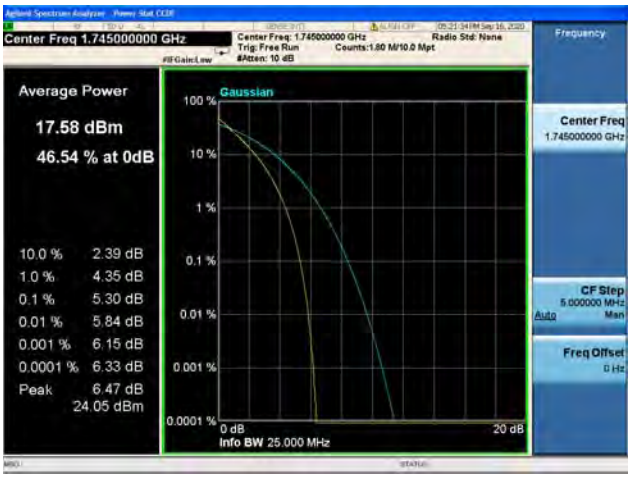
Band66 / 20MHz / Low CH / 64QAM



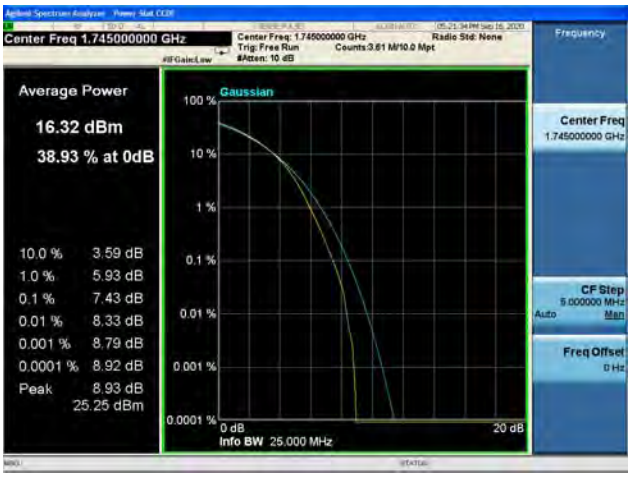
Band66 / 20MHz / Mid CH / QPSK



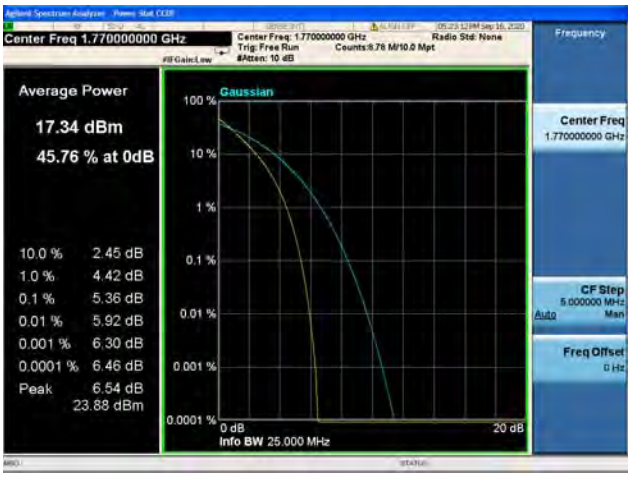
Band66 / 20MHz / Mid CH / 16QAM



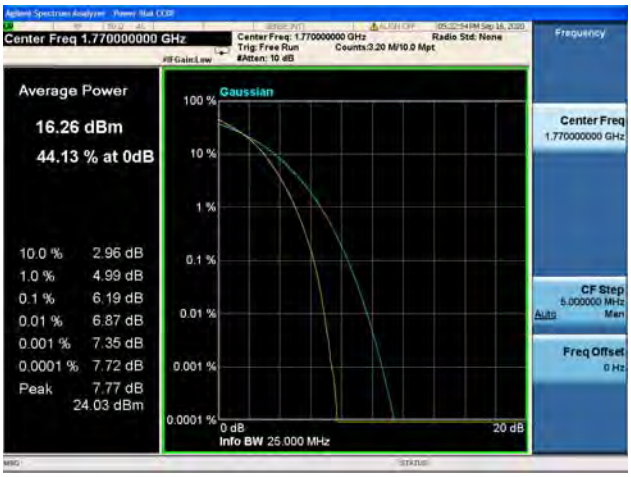
Band66 / 20MHz / Mid CH / 64QAM



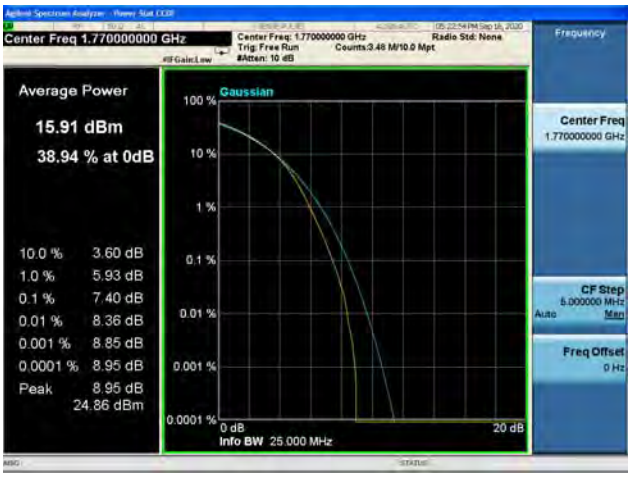
Band66 / 20MHz / High CH / QPSK



Band66 / 20MHz / High CH / 16QAM



Band66 / 20MHz / High CH / 64QAM

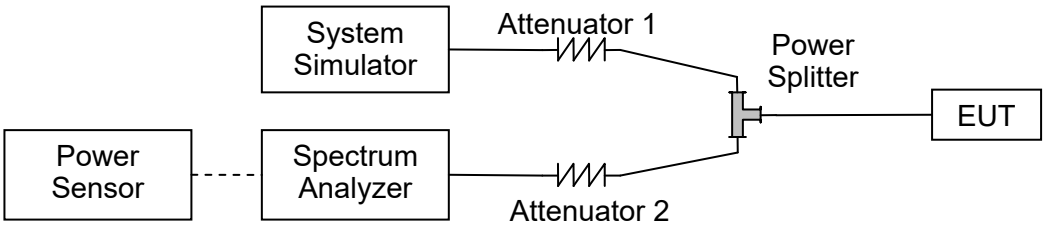


2.5. Conducted Spurious Emissions

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



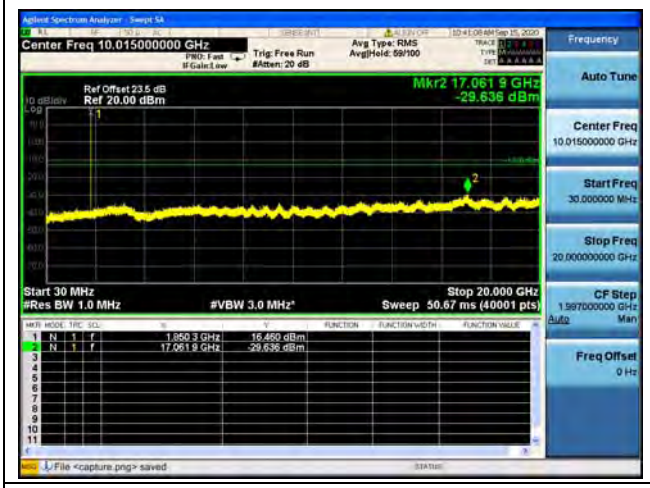
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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

Band2 / 1.4MHz / Low CH / QPSK



Band2 / 1.4MHz / Low CH / 16QAM

Band2 / 1.4MHz / Low CH / 64QAM

Band2 / 1.4MHz / Mid CH / QPSK

Band2 / 1.4MHz / Mid CH / 16QAM

Band2 / 1.4MHz / Mid CH / 64QAM