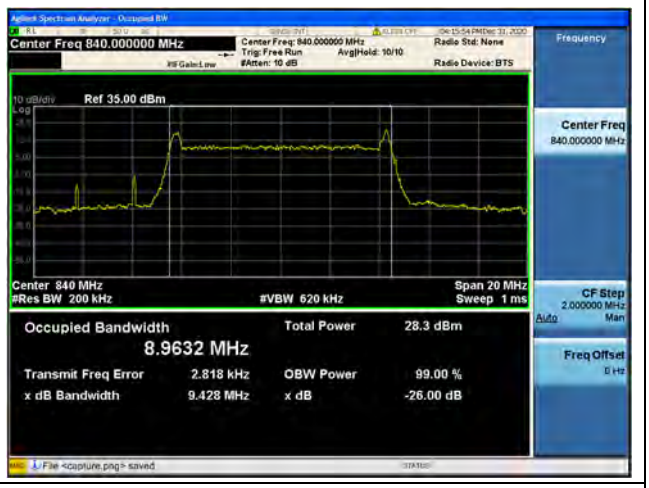
Band19 / 10MHz / Mid CH / QPSK

Band19 / 10MHz / Mid CH / 16QAM

Band19 / 10MHz / Mid CH / 64QAM

Band19 / 10MHz / High CH / QPSK



Band19 / 10MHz / High CH / 16QAM

Band19 / 10MHz / High CH / 64QAM

Band19 / 15MHz / Low CH / QPSK

Band19 / 15MHz / Low CH / 16QAM

Band19 / 15MHz / Low CH / 64QAM

Band19 / 15MHz / Mid CH / QPSK

Band19 / 15MHz / Mid CH / 16QAM

Band19 / 15MHz / Mid CH / 64QAM

Band19 / 15MHz / High CH / QPSK

Band19 / 15MHz / High CH / 16QAM

Band19 / 15MHz / High CH / 64QAM

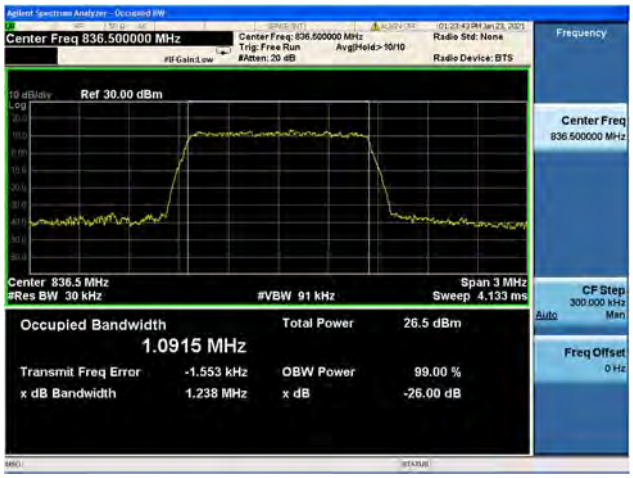
Band26 / 1.4MHz / Low CH / QPSK

Band26 / 1.4MHz / Low CH / 16QAM

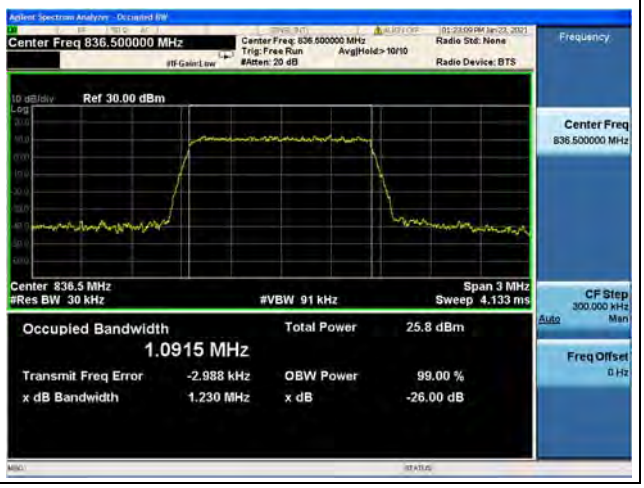
Band26 / 1.4MHz / Low CH / 64QAM

Band26 / 1.4MHz / Mid CH / QPSK

Band26 / 1.4MHz / Mid CH / 16QAM



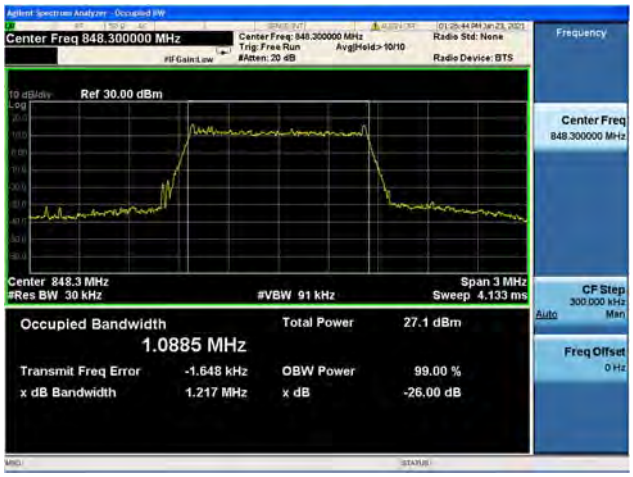
Band26 / 1.4MHz / Mid CH / 64QAM



Band26 / 1.4MHz / High CH / QPSK

Band26 / 1.4MHz / High CH / 16QAM

Band26 / 1.4MHz / High CH / 64QAM



Band26 / 3MHz / Low CH / QPSK

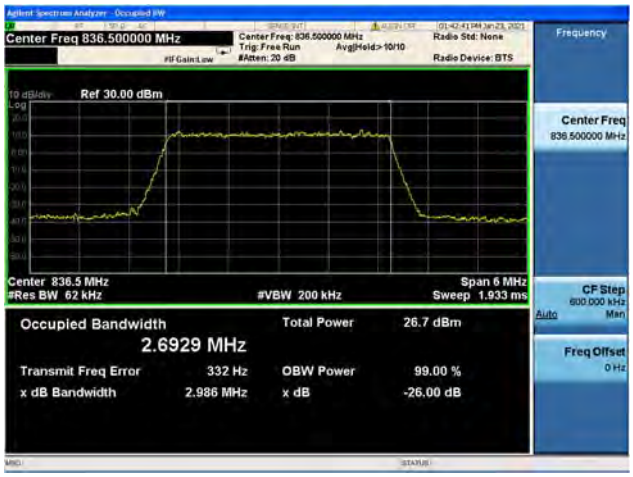
Band26 / 3MHz / Low CH / 16QAM

Band26 / 3MHz / Low CH / 64QAM

Band26 / 3MHz / Mid CH / QPSK

Band26 / 3MHz / Mid CH / 16QAM

Band26 / 3MHz / Mid CH / 64QAM



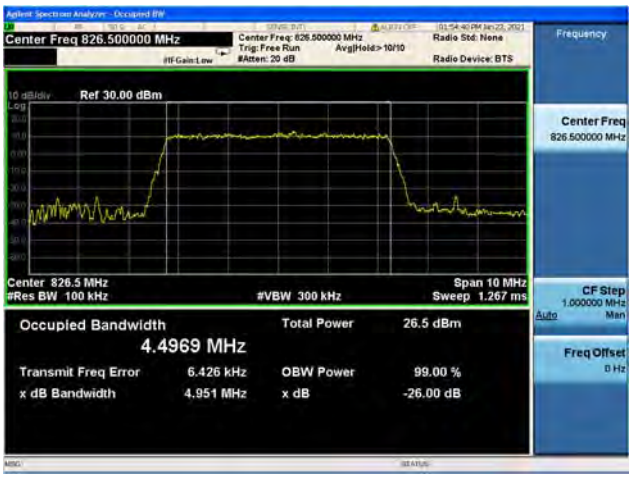
Band26 / 3MHz / High CH / QPSK

Band26 / 3MHz / High CH / 16QAM

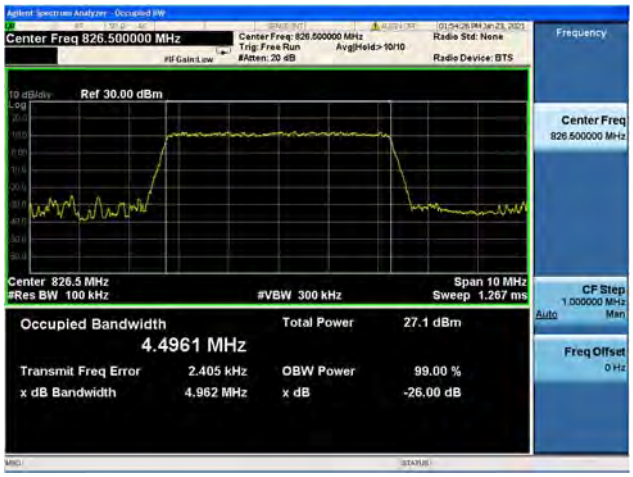
Band26 / 3MHz / High CH / 64QAM

Band26 / 5MHz / Low CH / QPSK

Band26 / 5MHz / Low CH / 16QAM



Band26 / 5MHz / Low CH / 64QAM



Band26 / 5MHz / Mid CH / QPSK

Band26 / 5MHz / Mid CH / 16QAM

Band26 / 5MHz / Mid CH / 64QAM

Band26 / 5MHz / High CH / QPSK

Band26 / 5MHz / High CH / 16QAM

Band26 / 5MHz / High CH / 64QAM

Band26 / 10MHz / Low CH / QPSK

Band26 / 10MHz / Low CH / 16QAM

Band26 / 10MHz / Low CH / 64QAM

Band26 / 10MHz / Mid CH / QPSK

Band26 / 10MHz / Mid CH / 16QAM

Band26 / 10MHz / Mid CH / 64QAM

Band26 / 10MHz / High CH / QPSK

Band26 / 10MHz / High CH / 16QAM

Band26 / 10MHz / High CH / 64QAM

Band26 / 15MHz / Low CH / QPSK

Band26 / 15MHz / Low CH / 16QAM

Band26 / 15MHz / Low CH / 64QAM

Band26 / 15MHz / Mid CH / QPSK

Band26 / 15MHz / Mid CH / 16QAM

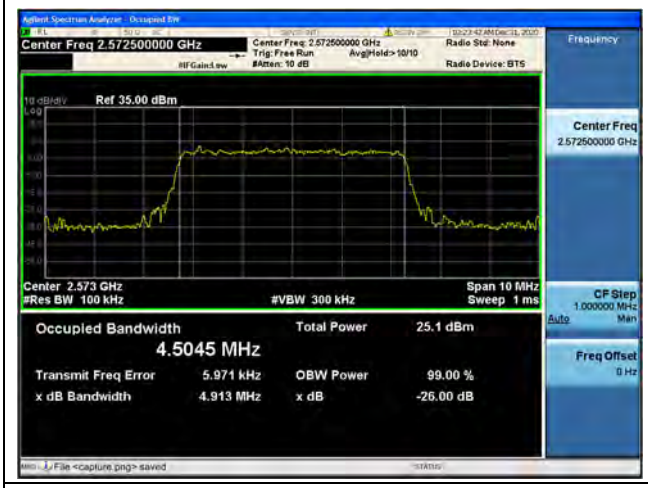
Band26 / 15MHz / Mid CH / 64QAM

Band26 / 15MHz / High CH / QPSK

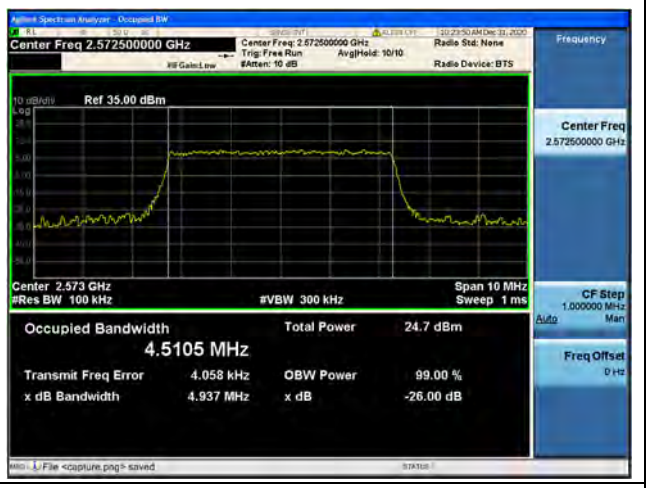
Band26 / 15MHz / High CH / 16QAM

Band26 / 15MHz / High CH / 64QAM

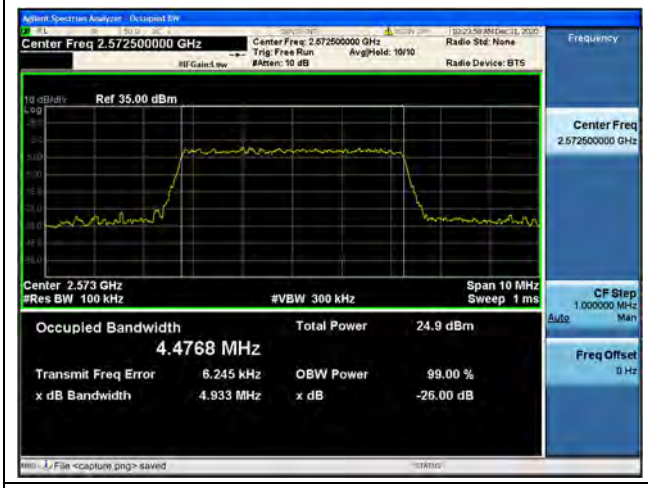
Band38 / 5MHz / Low CH / QPSK



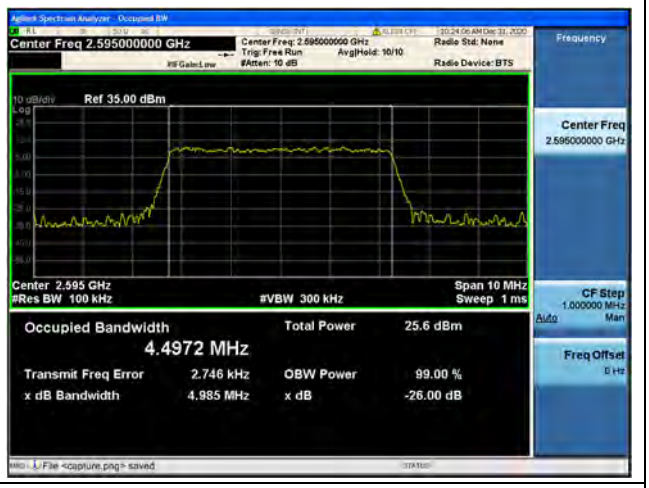
Band38 / 5MHz / Low CH / 16QAM



Band38 / 5MHz / Low CH / 64QAM



Band38 / 5MHz / Mid CH / QPSK

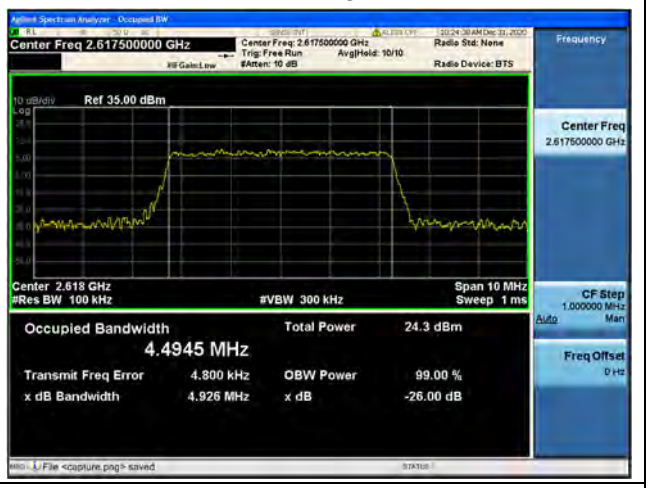


Band38 / 5MHz / Mid CH / 16QAM

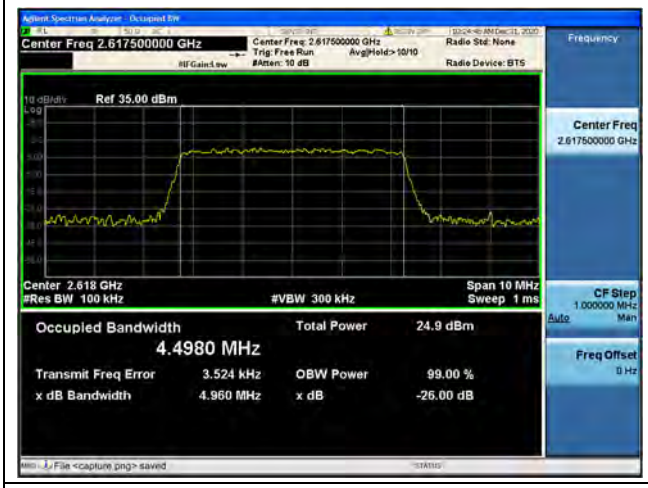
Band38 / 5MHz / Mid CH / 64QAM

Band38 / 5MHz / High CH / QPSK

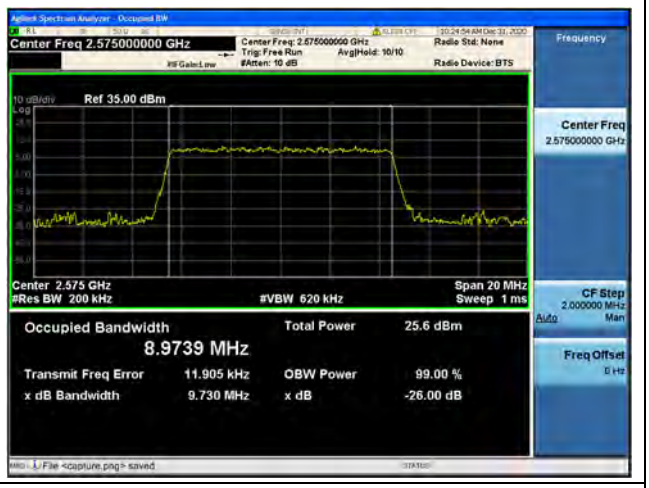
Band38 / 5MHz / High CH / 16QAM



Band38 / 5MHz / High CH / 64QAM



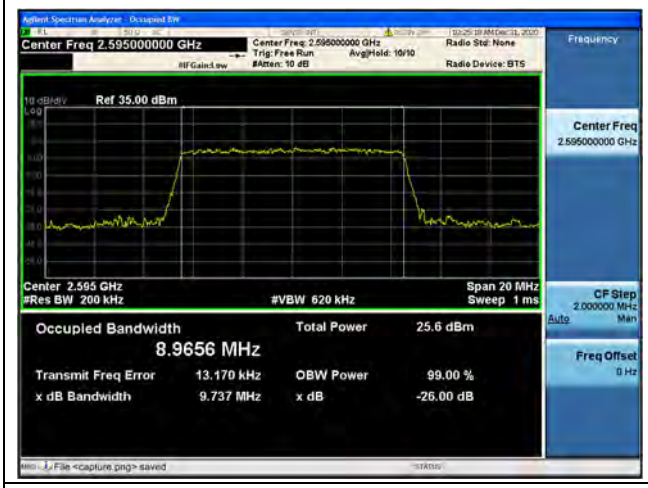
Band38 / 10MHz / Low CH / QPSK



Band38 / 10MHz / Low CH / 16QAM

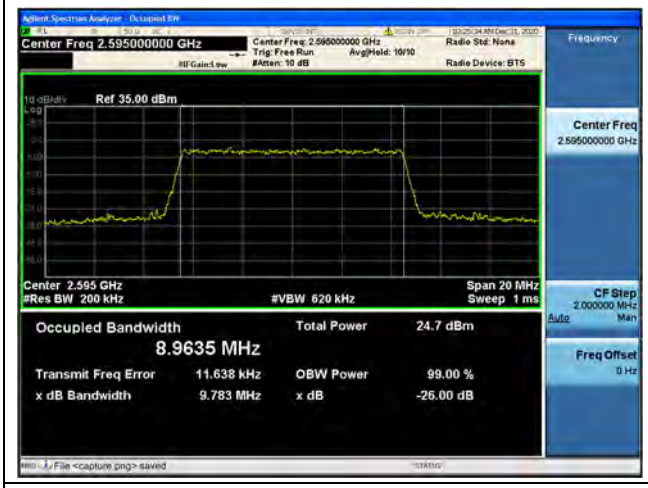
Band38 / 10MHz / Low CH / 64QAM

Band38 / 10MHz / Mid CH / QPSK

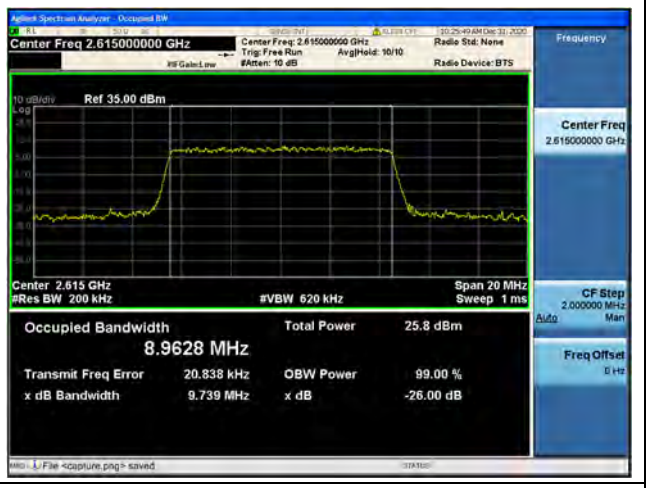


Band38 / 10MHz / Mid CH / 16QAM

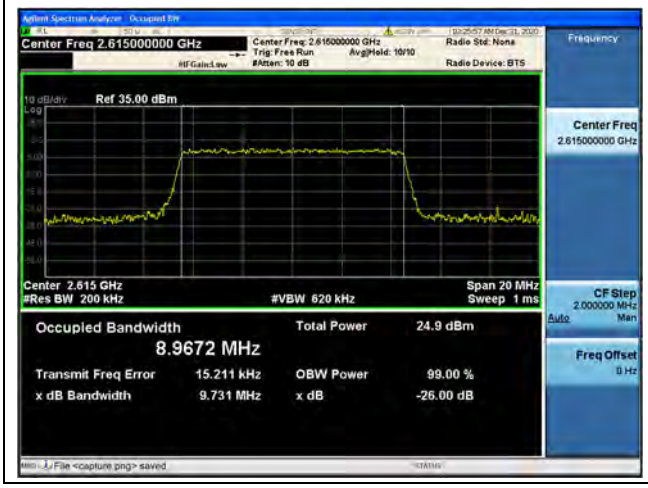
Band38 / 10MHz / Mid CH / 64QAM



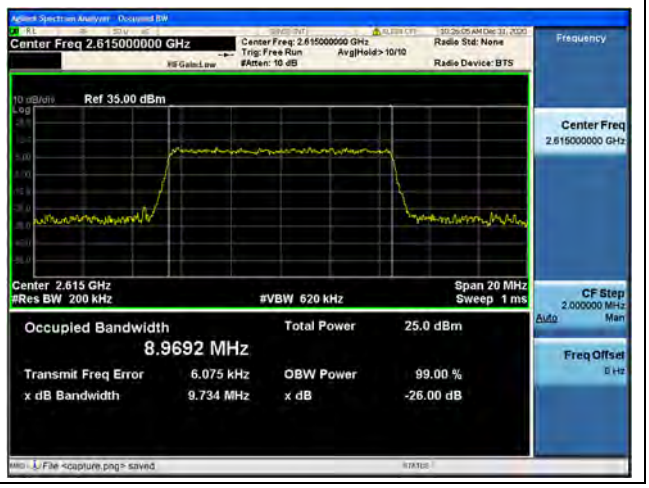
Band38 / 10MHz / High CH / QPSK



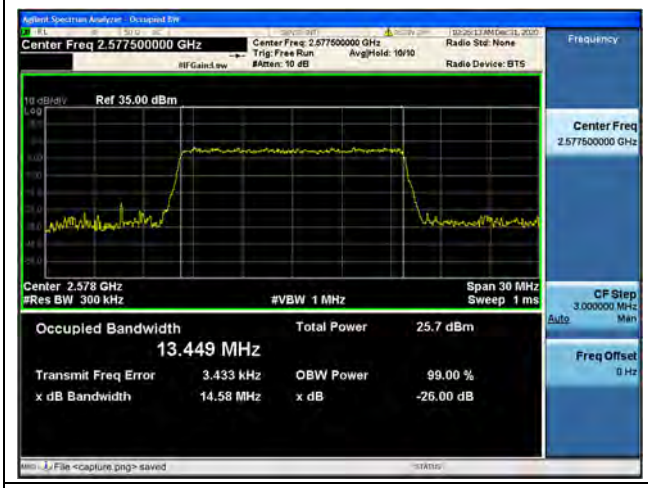
Band38 / 10MHz / High CH / 16QAM



Band38 / 10MHz / High CH / 64QAM



Band38 / 15MHz / Low CH / QPSK



Band38 / 15MHz / Low CH / 16QAM

Band38 / 15MHz / Low CH / 64QAM

Band38 / 15MHz / Mid CH / QPSK

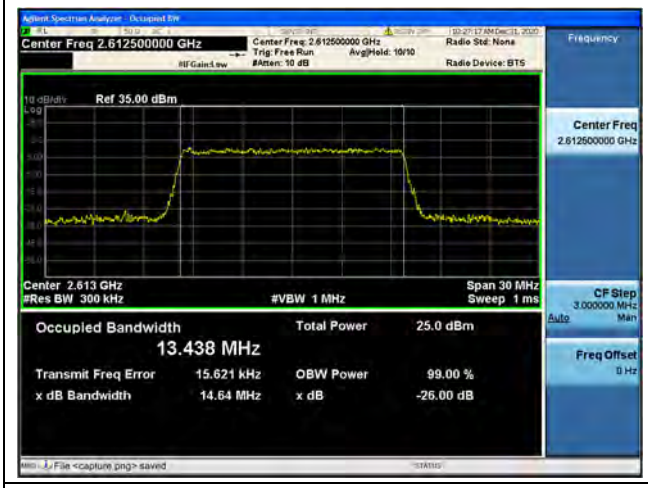
Band38 / 15MHz / Mid CH / 16QAM

Band38 / 15MHz / Mid CH / 64QAM

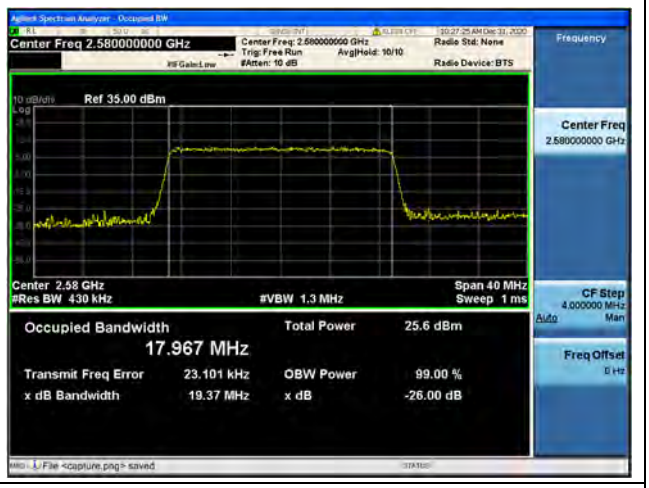
Band38 / 15MHz / High CH / QPSK

Band38 / 15MHz / High CH / 16QAM

Band38 / 15MHz / High CH / 64QAM



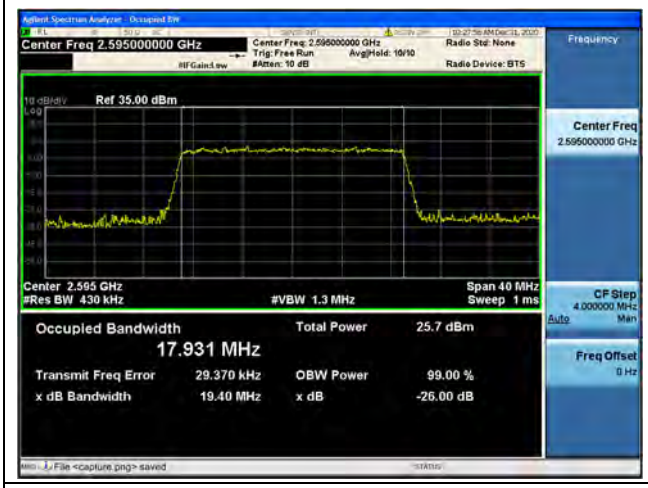
Band38 / 20MHz / Low CH / QPSK



Band38 / 20MHz / Low CH / 16QAM

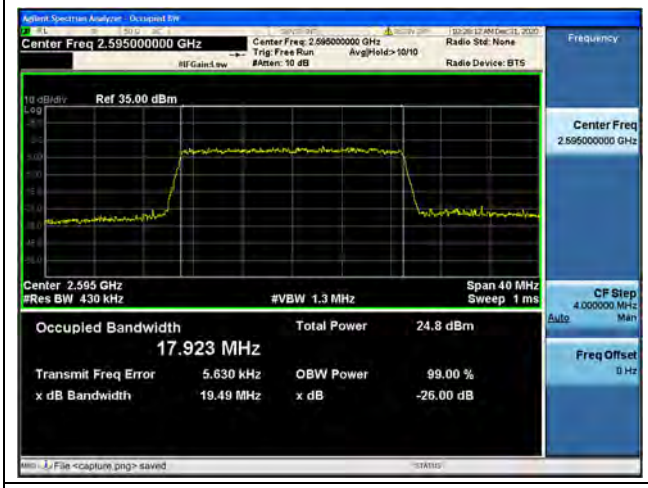
Band38 / 20MHz / Low CH / 64QAM

Band38 / 20MHz / Mid CH / QPSK

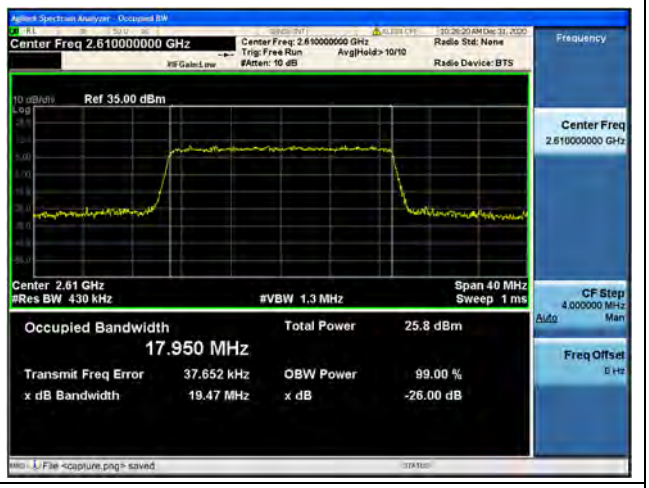


Band38 / 20MHz / Mid CH / 16QAM

Band38 / 20MHz / Mid CH / 64QAM

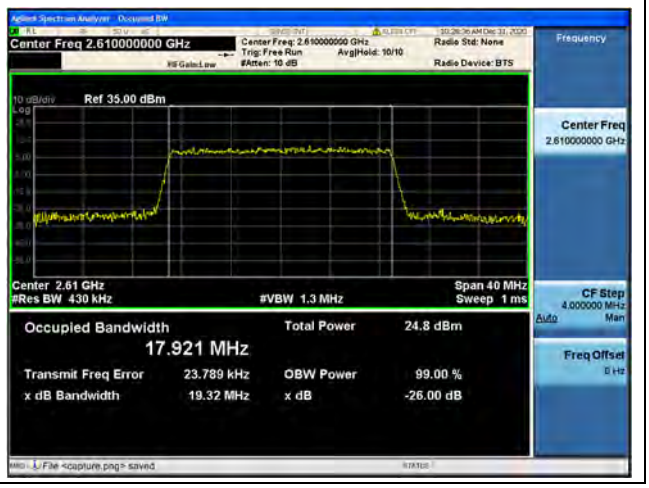


Band38 / 20MHz / High CH / QPSK



Band38 / 20MHz / High CH / 16QAM

Band38 / 20MHz / High CH / 64QAM



Band40/ Block A / 5MHz / Low CH / QPSK

Band40/ Block A / 5MHz / Low CH / 16QAM

Band40/ Block A / 5MHz / Low CH / 64QAM

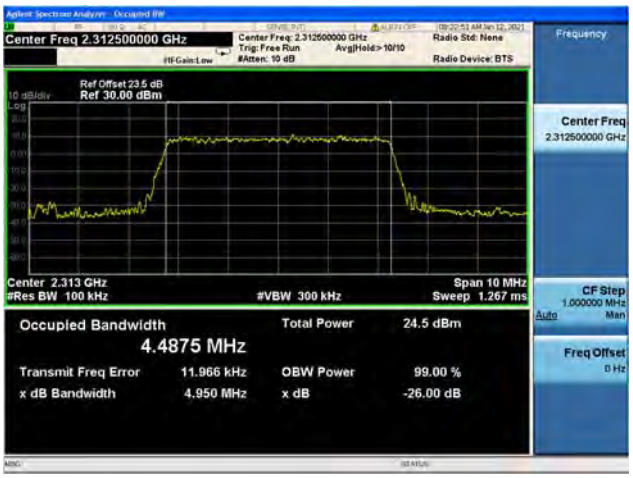
Band40/ Block A / 5MHz / Mid CH / QPSK

Band40/ Block A / 5MHz / Mid CH / 16QAM

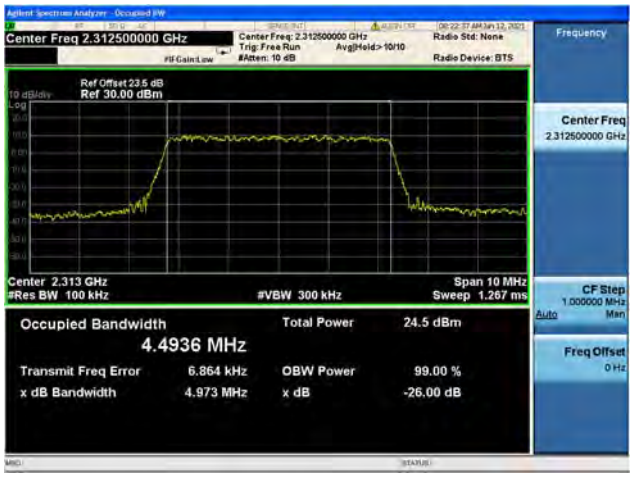
Band40/ Block A / 5MHz / Mid CH / 64QAM

Band40/ Block A / 5MHz / High CH / QPSK

Band40/ Block A / 5MHz / High CH / 16QAM



Band40/ Block A / 5MHz / High CH / 64QAM



Band40/ Block A / 10MHz / Mid CH / QPSK

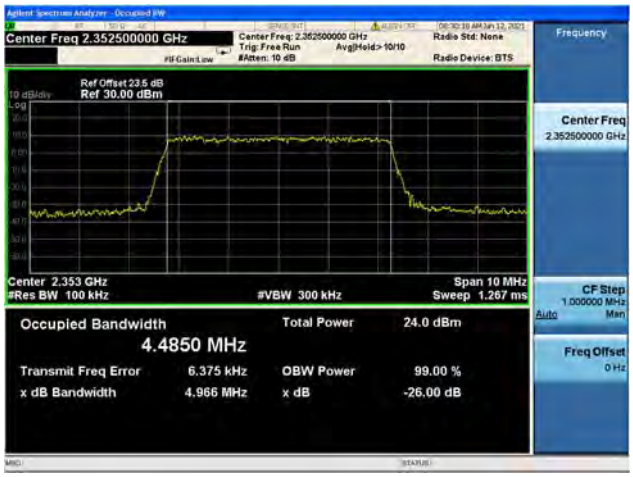
Band40/ Block A / 10MHz / Mid CH / 16QAM

Band40/ Block A / 10MHz / Mid CH / 64QAM

Band40/ Block B / 5MHz / Low CH / QPSK

Band40/ Block B / 5MHz / Low CH / 16QAM

Band40/ Block B / 5MHz / Low CH / 64QAM



Band40/ Block B / 5MHz / Mid CH / QPSK

Band40/ Block B / 5MHz / Mid CH / 16QAM

Band40/ Block B / 5MHz / Mid CH / 64QAM

Band40/ Block B / 5MHz / High CH / QPSK

Band40/ Block B / 5MHz / High CH / 16QAM

Band40/ Block B / 5MHz / High CH / 64QAM

Band40/ Block B / 10MHz / Mid CH / QPSK

Band40/ Block B / 10MHz / Mid CH / 16QAM

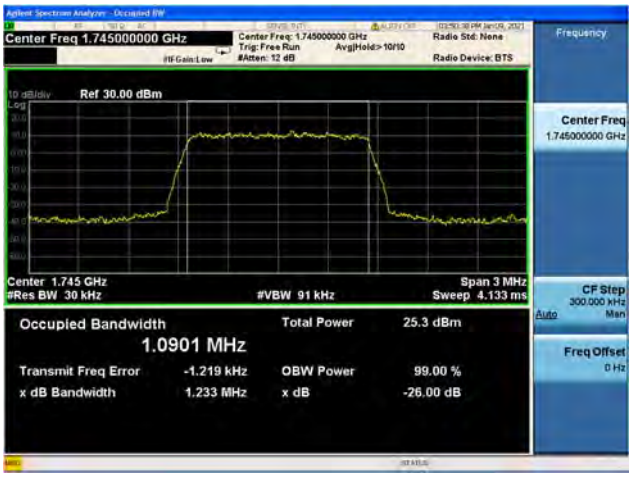
Band40/ Block B / 10MHz / Mid CH / 64QAM

Band66 / 1.4MHz / Low CH / QPSK

Band66 / 1.4MHz / Low CH / 16QAM

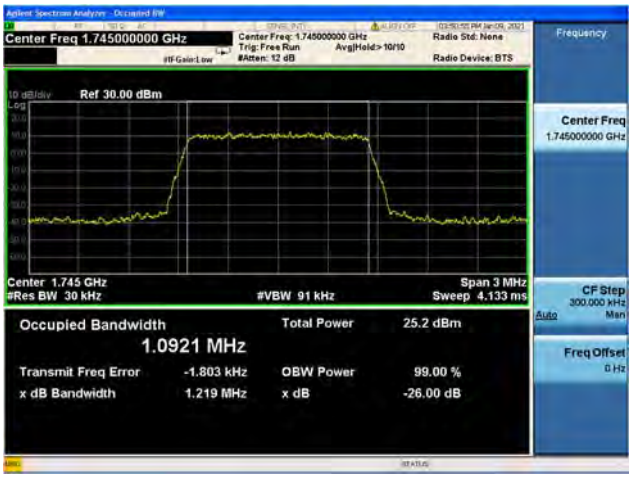
Band66 / 1.4MHz / Low CH / 64QAM

Band66 / 1.4MHz / Mid CH / QPSK



Band66 / 1.4MHz / Mid CH / 16QAM

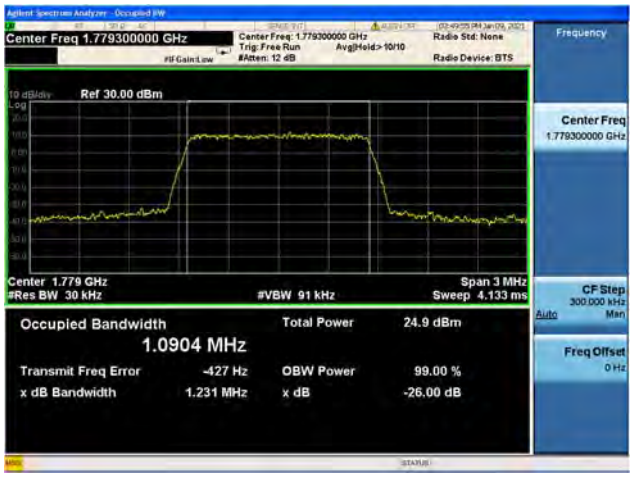
Band66 / 1.4MHz / Mid CH / 64QAM



Band66 / 1.4MHz / High CH / QPSK

Band66 / 1.4MHz / High CH / 16QAM

Band66 / 1.4MHz / High CH / 64QAM



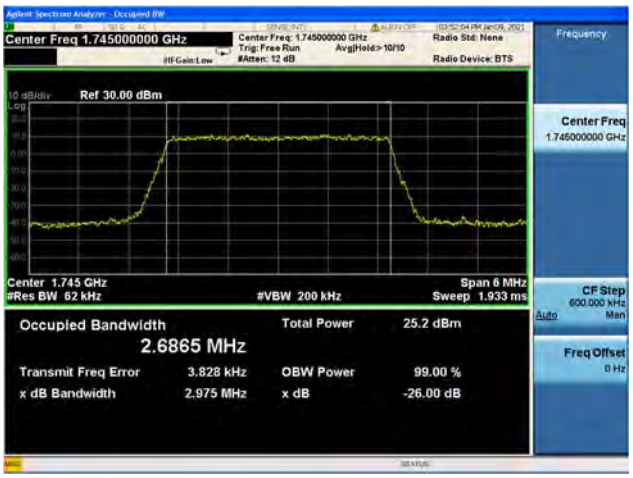
Band66 / 3MHz / Low CH / QPSK

Band66 / 3MHz / Low CH / 16QAM

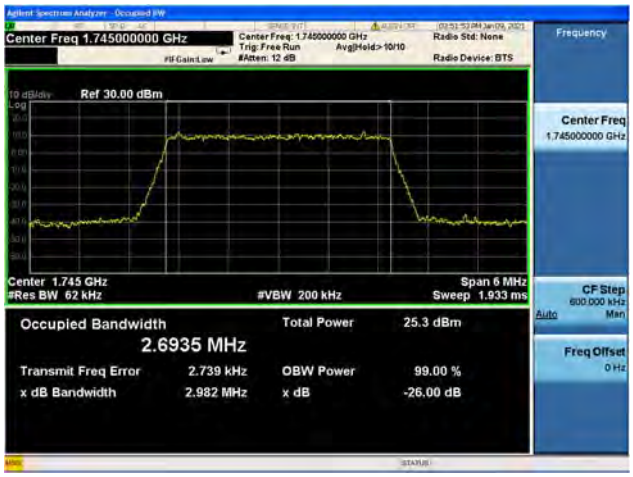
Band66 / 3MHz / Low CH / 64QAM

Band66 / 3MHz / Mid CH / QPSK

Band66 / 3MHz / Mid CH / 16QAM



Band66 / 3MHz / Mid CH / 64QAM



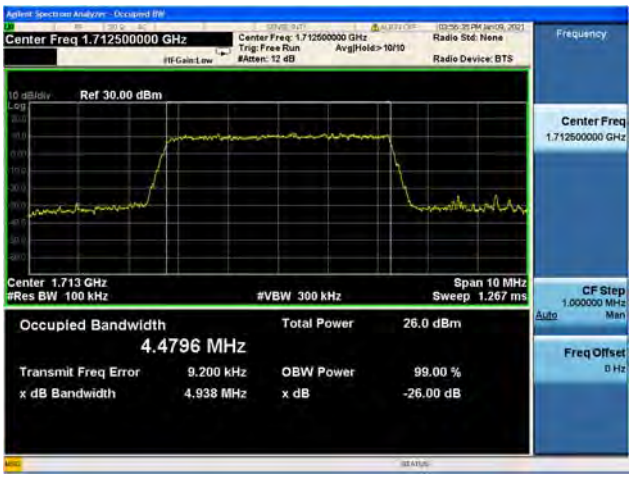
Band66 / 3MHz / High CH / QPSK

Band66 / 3MHz / High CH / 16QAM

Band66 / 3MHz / High CH / 64QAM

Band66 / 5MHz / Low CH / QPSK

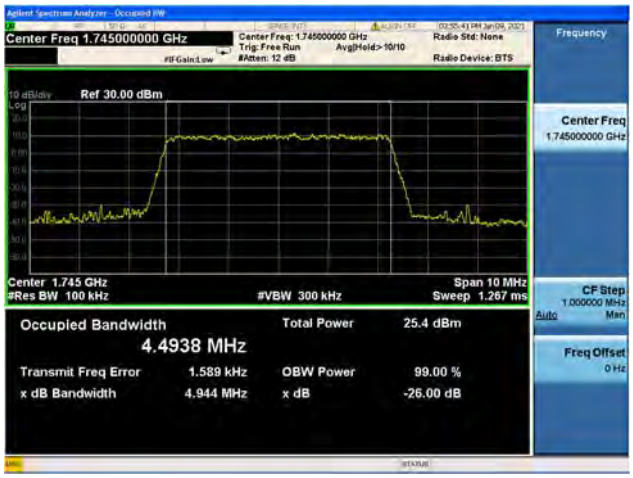
Band66 / 5MHz / Low CH / 16QAM



Band66 / 5MHz / Low CH / 64QAM

Band66 / 5MHz / Mid CH / QPSK

Band66 / 5MHz / Mid CH / 16QAM



Band66 / 5MHz / Mid CH / 64QAM

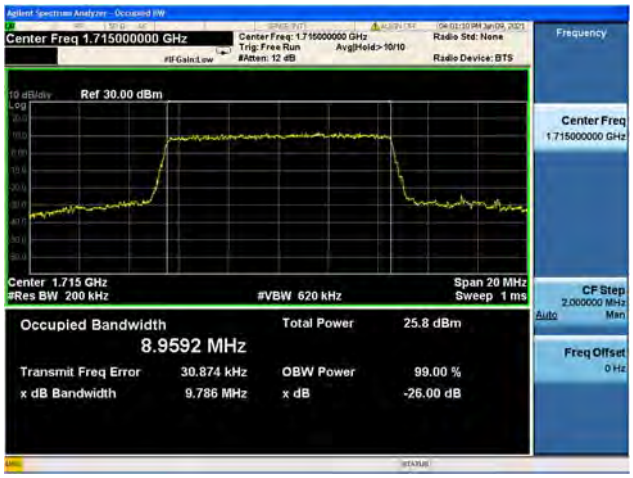
Band66 / 5MHz / High CH / QPSK

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

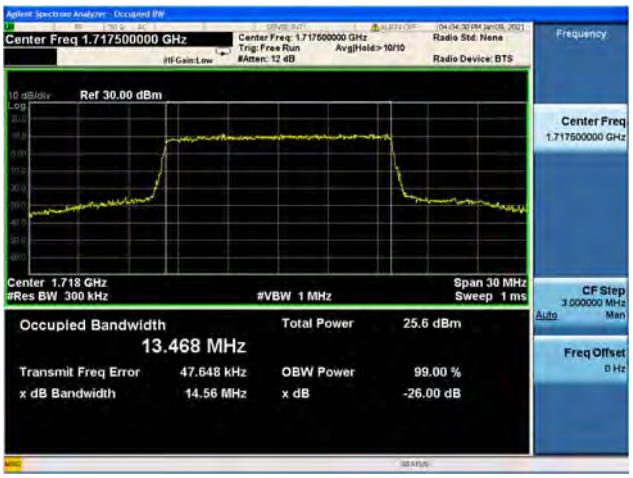
Band66 / 10MHz / High CH / QPSK

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

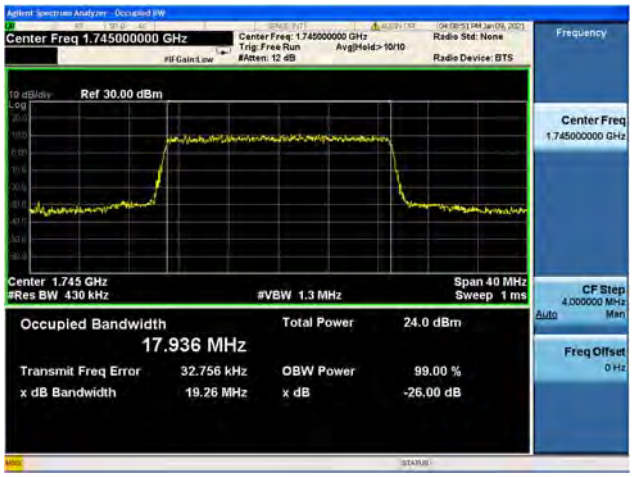
Band66 / 20MHz / Low CH / 16QAM

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

2.3. Frequency Stability

2.3.1. Requirement

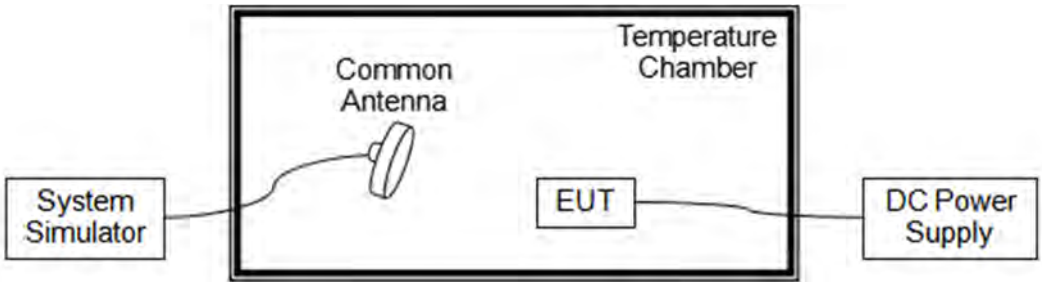
According to FCC section 2.1055, 24.235, 27.54, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

(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 0°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 3.87V, 4.45V and 3.45V, 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	3.87	+20（Ref）	24	0.013	PASS
100		0	38	0.020	
100		+10	41	0.022	
100		+20	13	0.007	
100		+30	10	0.005	
100		+35	-13	-0.007	
115	4.45	+20	21	0.011	
85	3.45	+20	25	0.013	

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	3.87	+20（Ref）	14	0.008	PASS
100		0	-16	-0.009	
100		+10	34	0.020	
100		+20	44	0.025	
100		+30	51	0.029	
100		+35	50	0.029	
115	4.45	+20	38	0.022	
85	3.45	+20	17	0.010	

LTE Band 5, QPSK, Channel 20525, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	**Power (VDC)**	**Temp(°C)**	**Fre. Dev.(Hz)**	**Deviation (ppm)**	**Result**
100	3.87	+20（Ref）	-15	-0.018	PASS
100		0	35	0.042	
100		+10	-20	-0.024	
100		+20	27	0.032	
100		+30	-14	-0.017	
100		+35	-17	-0.020	
115	4.45	+20	48	0.057	
85	3.45	+20	42	0.050	

LTE Band 7, QPSK, Channel 21100, Frequency 2535MHz Limit= Within Authorized Band					
Voltage (%)	**Power (VDC)**	**Temp(°C)**	**Fre. Dev.(Hz)**	**Deviation (ppm)**	**Result**
100	3.87	+20（Ref）	11	0.004	PASS
100		0	19	0.007	
100		+10	11	0.004	
100		+20	14	0.006	
100		+30	-14	-0.006	
100		+35	-19	-0.007	
115	4.45	+20	17	0.007	
85	3.45	+20	21	0.008	

LTE Band 12, QPSK, Channel 23095, Frequency 707.5MHz Limit =Within Authorized Band					
Voltage (%)	**Power (VDC)**	**Temp(°C)**	**Fre. Dev.(Hz)**	**Deviation (ppm)**	**Result**
100	3.87	+20（Ref）	13	0.018	PASS
100		0	-20	-0.028	
100		+10	18	0.025	
100		+20	11	0.016	
100		+30	11	0.016	
100		+35	-24	-0.034	
115	4.45	+20	-18	-0.025	
85	3.45	+20	22	0.031	

LTE Band 17, QPSK, Channel 23790, Frequency 710MHz Limit =Within Authorized Band					
Voltage (%)	**Power (VDC)**	**Temp(°C)**	**Fre. Dev.(Hz)**	**Deviation (ppm)**	**Result**
100	3.87	+20（Ref）	17	0.024	PASS
100		0	-14	-0.020	
100		+10	28	0.039	
100		+20	-16	-0.023	
100		+30	50	0.070	
100		+35	-17	-0.024	
115	4.45	+20	47	0.066	
85	3.45	+20	15	0.021	

LTE Band 18, QPSK, Channel 23970, Frequency 827MHz Limit=±2.5ppm					
Voltage (%)	**Power (VDC)**	**Temp (°C)**	**Fre. Dev. (Hz)**	**Deviation (ppm)**	**Result**
100	3.87	+20（Ref）	-12	-0.015	PASS
100		0	-13	-0.016	
100		+10	12	0.015	
100		+20	-22	-0.027	
100		+30	-19	-0.023	
100		+40	32	0.039	
115	4.45	+20	-19	-0.023	
85	3.45	+20	44	0.053	

LTE Band 19, QPSK, Channel 24075, Frequency 837.5MHz Limit=±2.5ppm					
Voltage (%)	**Power (VDC)**	**Temp (°C)**	**Fre. Dev. (Hz)**	**Deviation (ppm)**	**Result**
100	3.87	+20（Ref）	21	0.025	PASS
100		0	43	0.051	
100		+10	20	0.024	
100		+20	-24	-0.029	
100		+30	42	0.050	
100		+40	-13	-0.016	
115	4.45	+20	23	0.027	
85	3.45	+20	11	0.013	

LTE Band 26, QPSK, Channel 26915, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	**Power (VDC)**	**Temp(°C)**	**Fre. Dev.(Hz)**	**Deviation (ppm)**	**Result**
100	3.87	+20（Ref）	15	0.018	PASS
100		0	-19	-0.023	
100		+10	43	0.051	
100		+20	-14	-0.017	
100		+30	28	0.033	
100		+35	25	0.030	
115	4.45	+20	41	0.049	
85	3.45	+20	-11	-0.013	

LTE Band 38, QPSK, Channel 38000, Frequency 2595MHz Limit =Within Authorized Band					
Voltage (%)	**Power (VDC)**	**Temp(°C)**	**Fre. Dev.(Hz)**	**Deviation (ppm)**	**Result**
100	3.87	+20（Ref）	27	0.010	PASS
100		0	-14	-0.005	
100		+10	17	0.007	
100		+20	-16	-0.006	
100		+30	17	0.007	
100		+35	32	0.012	
115	4.45	+20	35	0.013	
85	3.45	+20	13	0.005	

LTE Band 40, Block A, QPSK, Channel 38750, Frequency 2310MHz Limit =Within Authorized Band					
Voltage (%)	**Power (VDC)**	**Temp (°C)**	**Fre. Dev. (Hz)**	**Deviation (ppm)**	**Result**
100	3.87	+20（Ref）	21	0.009	PASS
100		0	-12	-0.005	
100		+10	16	0.007	
100		+20	33	0.014	
100		+30	-26	-0.011	
100		+40	13	0.006	
115	4.45	+20	-30	-0.013	
85	3.45	+20	27	0.012	

LTE Band 40 Block B, QPSK, Channel 39200, Frequency 2355MHz Limit =Within Authorized Band					
Voltage (%)	**Power (VDC)**	**Temp (°C)**	**Fre. Dev. (Hz)**	**Deviation (ppm)**	**Result**
100	3.87	+20（Ref）	13	0.006	PASS
100		0	29	0.012	
100		+10	-19	-0.008	
100		+20	13	0.006	
100		+30	18	0.008	
100		+40	19	0.008	
115	4.45	+20	10	0.004	
85	3.45	+20	29	0.012	

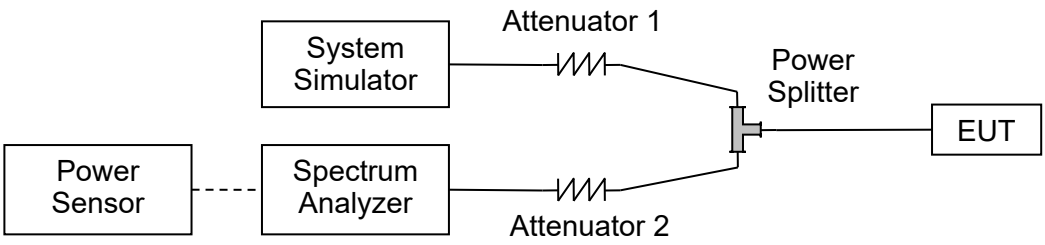
LTE Band 66, QPSK, Channel 132322, Frequency 1745MHz Limit =Within Authorized Band					
Voltage (%)	**Power (VDC)**	**Temp (°C)**	**Fre. Dev. (Hz)**	**Deviation (ppm)**	**Result**
100	3.87	+20（Ref）	18	0.010	PASS
100		0	15	0.009	
100		+10	29	0.017	
100		+20	33	0.019	
100		+30	13	0.007	
100		+35	21	0.012	
115	4.45	+20	-16	-0.009	
85	3.45	+20	10	0.006	

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



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(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	4.61	<=13	PASS
	Low	16QAM	5.52	<=13	PASS
	Low	64QAM	5.63	<=13	PASS
	Mid	QPSK	5.67	<=13	PASS
	Mid	16QAM	6.09	<=13	PASS
	Mid	64QAM	6.08	<=13	PASS
	High	QPSK	5.49	<=13	PASS
	High	16QAM	5.95	<=13	PASS
	High	64QAM	6.02	<=13	PASS
3	Low	QPSK	4.62	<=13	PASS
	Low	16QAM	5.59	<=13	PASS
	Low	64QAM	5.62	<=13	PASS
	Mid	QPSK	5.34	<=13	PASS
	Mid	16QAM	6.16	<=13	PASS
	Mid	64QAM	6.06	<=13	PASS
	High	QPSK	5.3	<=13	PASS
	High	16QAM	6.04	<=13	PASS
	High	64QAM	5.98	<=13	PASS
5	Low	QPSK	4.81	<=13	PASS
	Low	16QAM	5.68	<=13	PASS
	Low	64QAM	5.67	<=13	PASS
	Mid	QPSK	5.33	<=13	PASS
	Mid	16QAM	6.05	<=13	PASS
	Mid	64QAM	5.99	<=13	PASS
	High	QPSK	5.37	<=13	PASS
	High	16QAM	6.0	<=13	PASS
	High	64QAM	6.0	<=13	PASS
10	Low	QPSK	4.81	<=13	PASS
	Low	16QAM	5.71	<=13	PASS
	Low	64QAM	5.68	<=13	PASS
	Mid	QPSK	5.4	<=13	PASS
	Mid	16QAM	6.05	<=13	PASS
	Mid	64QAM	6.09	<=13	PASS
	High	QPSK	5.45	<=13	PASS
	High	16QAM	6.15	<=13	PASS
	High	64QAM	6.1	<=13	PASS

15	Low	QPSK	4.63	<=13	PASS
	Low	16QAM	5.59	<=13	PASS
	Low	64QAM	5.61	<=13	PASS
	Mid	QPSK	5.34	<=13	PASS
	Mid	16QAM	6.07	<=13	PASS
	Mid	64QAM	6.06	<=13	PASS
	High	QPSK	5.51	<=13	PASS
	High	16QAM	6.18	<=13	PASS
	High	64QAM	6.17	<=13	PASS
20	Low	QPSK	5.19	<=13	PASS
	Low	16QAM	5.97	<=13	PASS
	Low	64QAM	6.01	<=13	PASS
	Mid	QPSK	5.27	<=13	PASS
	Mid	16QAM	6.07	<=13	PASS
	Mid	64QAM	6.02	<=13	PASS
	High	QPSK	5.36	<=13	PASS
	High	16QAM	6.07	<=13	PASS
	High	64QAM	6.09	<=13	PASS

LTE Band 4					
BW(MHz)	**Channel Level**	**Modulation**	**PAR Radio(dB)**	**Limit(dB)**	**Verdict**
1.4	Low	QPSK	5.6	<=13	PASS
	Low	16QAM	6.05	<=13	PASS
	Low	64QAM	6.03	<=13	PASS
	Mid	QPSK	5.66	<=13	PASS
	Mid	16QAM	6.11	<=13	PASS
	Mid	64QAM	6.05	<=13	PASS
	High	QPSK	5.68	<=13	PASS
	High	16QAM	6.13	<=13	PASS
	High	64QAM	6.15	<=13	PASS
3	Low	QPSK	5.31	<=13	PASS
	Low	16QAM	6.04	<=13	PASS
	Low	64QAM	5.97	<=13	PASS
	Mid	QPSK	5.4	<=13	PASS
	Mid	16QAM	6.16	<=13	PASS
	Mid	64QAM	6.07	<=13	PASS
	High	QPSK	5.36	<=13	PASS
	High	16QAM	6.16	<=13	PASS
	High	64QAM	6.12	<=13	PASS
5	Low	QPSK	5.31	<=13	PASS
	Low	16QAM	5.96	<=13	PASS
	Low	64QAM	5.97	<=13	PASS
	Mid	QPSK	5.39	<=13	PASS
	Mid	16QAM	6.05	<=13	PASS
	Mid	64QAM	6.05	<=13	PASS
	High	QPSK	5.39	<=13	PASS
	High	16QAM	6.1	<=13	PASS
	High	64QAM	6.07	<=13	PASS
10	Low	QPSK	5.32	<=13	PASS
	Low	16QAM	5.98	<=13	PASS
	Low	64QAM	6.03	<=13	PASS
	Mid	QPSK	5.32	<=13	PASS
	Mid	16QAM	6.07	<=13	PASS
	Mid	64QAM	6.03	<=13	PASS
	High	QPSK	5.4	<=13	PASS
	High	16QAM	6.1	<=13	PASS
	High	64QAM	6.14	<=13	PASS

15	Low	QPSK	5.25	<=13	PASS
	Low	16QAM	6.04	<=13	PASS
	Low	64QAM	6.0	<=13	PASS
	Mid	QPSK	5.35	<=13	PASS
	Mid	16QAM	6.05	<=13	PASS
	Mid	64QAM	6.04	<=13	PASS
	High	QPSK	5.43	<=13	PASS
	High	16QAM	6.13	<=13	PASS
	High	64QAM	6.14	<=13	PASS
20	Low	QPSK	5.17	<=13	PASS
	Low	16QAM	5.99	<=13	PASS
	Low	64QAM	6.0	<=13	PASS
	Mid	QPSK	5.22	<=13	PASS
	Mid	16QAM	6.01	<=13	PASS
	Mid	64QAM	6.01	<=13	PASS
	High	QPSK	5.22	<=13	PASS
	High	16QAM	5.99	<=13	PASS
	High	64QAM	6.09	<=13	PASS

LTE Band 40, Block A					
BW(MHz)	**Channel Level**	**Modulation**	**PAR Radio(dB)**	**Limit(dB)**	**Verdict**
5	Low	QPSK	8.88	<=13	PASS
	Low	16QAM	9.42	<=13	PASS
	Low	64QAM	9.90	<=13	PASS
	Mid	QPSK	8.87	<=13	PASS
	Mid	16QAM	9.43	<=13	PASS
	Mid	64QAM	9.69	<=13	PASS
	High	QPSK	8.91	<=13	PASS
	High	16QAM	9.28	<=13	PASS
	High	64QAM	10.08	<=13	PASS
10	Mid	QPSK	8.83	<=13	PASS
	Mid	16QAM	9.29	<=13	PASS
	Mid	64QAM	10.00	<=13	PASS

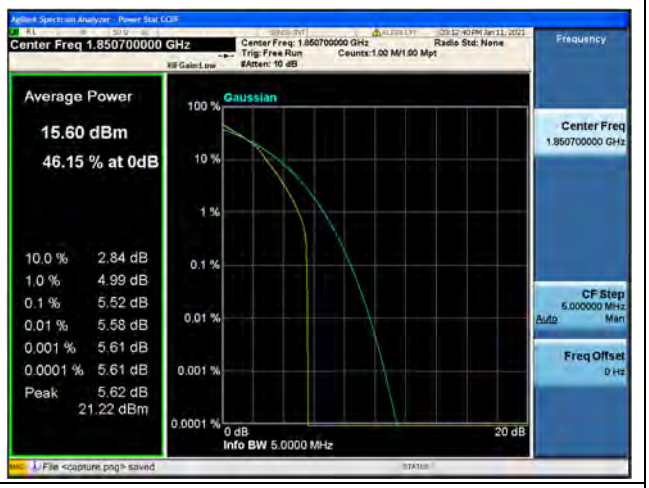
LTE Band 40, Block B					
BW(MHz)	**Channel Level**	**Modulation**	**PAR Radio(dB)**	**Limit(dB)**	**Verdict**
5	Low	QPSK	9.03	<=13	PASS
	Low	16QAM	9.21	<=13	PASS
	Low	64QAM	10.12	<=13	PASS
	Mid	QPSK	8.93	<=13	PASS
	Mid	16QAM	9.81	<=13	PASS
	Mid	64QAM	10.00	<=13	PASS
	High	QPSK	8.68	<=13	PASS
	High	16QAM	9.31	<=13	PASS
	High	64QAM	9.93	<=13	PASS
10	Mid	QPSK	8.83	<=13	PASS
	Mid	16QAM	9.36	<=13	PASS
	Mid	64QAM	9.91	<=13	PASS

LTE Band 66					
BW(MHz)	**Channel Level**	**Modulation**	**PAR Radio(dB)**	**Limit(dB)**	**Verdict**
1.4	Low	QPSK	5.23	<=13	PASS
	Low	16QAM	5.89	<=13	PASS
	Low	64QAM	6.52	<=13	PASS
	Mid	QPSK	5.70	<=13	PASS
	Mid	16QAM	6.14	<=13	PASS
	Mid	64QAM	6.71	<=13	PASS
	High	QPSK	5.33	<=13	PASS
	High	16QAM	6.15	<=13	PASS
	High	64QAM	6.82	<=13	PASS
3	Low	QPSK	5.20	<=13	PASS
	Low	16QAM	5.94	<=13	PASS
	Low	64QAM	6.47	<=13	PASS
	Mid	QPSK	5.48	<=13	PASS
	Mid	16QAM	6.17	<=13	PASS
	Mid	64QAM	6.61	<=13	PASS
	High	QPSK	5.28	<=13	PASS
	High	16QAM	6.16	<=13	PASS
	High	64QAM	6.67	<=13	PASS
5	Low	QPSK	5.26	<=13	PASS
	Low	16QAM	5.98	<=13	PASS
	Low	64QAM	6.50	<=13	PASS
	Mid	QPSK	5.37	<=13	PASS
	Mid	16QAM	6.04	<=13	PASS
	Mid	64QAM	6.58	<=13	PASS
	High	QPSK	5.39	<=13	PASS
	High	16QAM	6.04	<=13	PASS
	High	64QAM	6.60	<=13	PASS
10	Low	QPSK	5.25	<=13	PASS
	Low	16QAM	5.96	<=13	PASS
	Low	64QAM	6.51	<=13	PASS
	Mid	QPSK	5.36	<=13	PASS
	Mid	16QAM	6.01	<=13	PASS
	Mid	64QAM	6.55	<=13	PASS
	High	QPSK	5.38	<=13	PASS
	High	16QAM	6.14	<=13	PASS
	High	64QAM	6.62	<=13	PASS

15	Low	QPSK	5.20	<=13	PASS
	Low	16QAM	6.00	<=13	PASS
	Low	64QAM	6.56	<=13	PASS
	Mid	QPSK	5.37	<=13	PASS
	Mid	16QAM	6.07	<=13	PASS
	Mid	64QAM	6.62	<=13	PASS
	High	QPSK	5.42	<=13	PASS
	High	16QAM	6.11	<=13	PASS
	High	64QAM	6.67	<=13	PASS
20	Low	QPSK	5.18	<=13	PASS
	Low	16QAM	5.99	<=13	PASS
	Low	64QAM	6.48	<=13	PASS
	Mid	QPSK	5.21	<=13	PASS
	Mid	16QAM	6.02	<=13	PASS
	Mid	64QAM	6.57	<=13	PASS
	High	QPSK	5.23	<=13	PASS
	High	16QAM	6.00	<=13	PASS
	High	64QAM	6.63	<=13	PASS

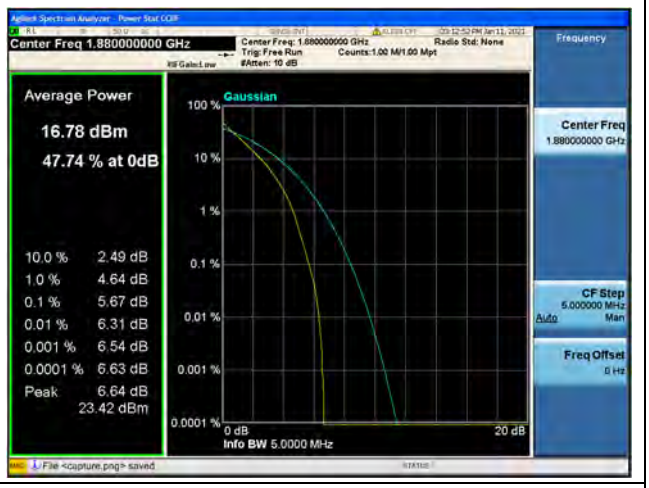
Band2 / 1.4MHz / Low CH / QPSK

Band2 / 1.4MHz / Low CH / 16QAM

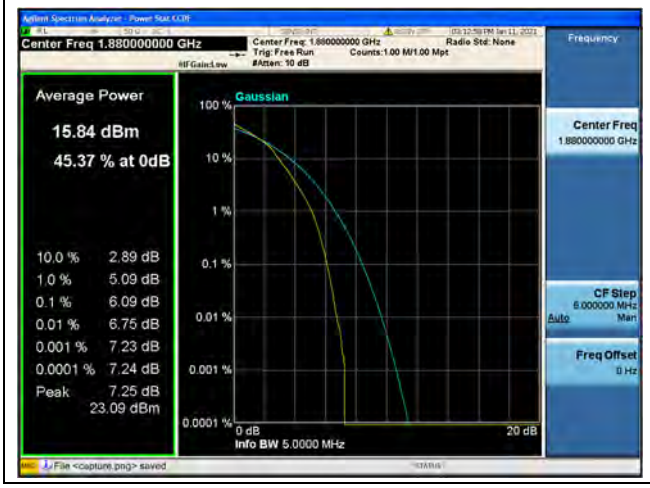


Band2 / 1.4MHz / Low CH / 64QAM

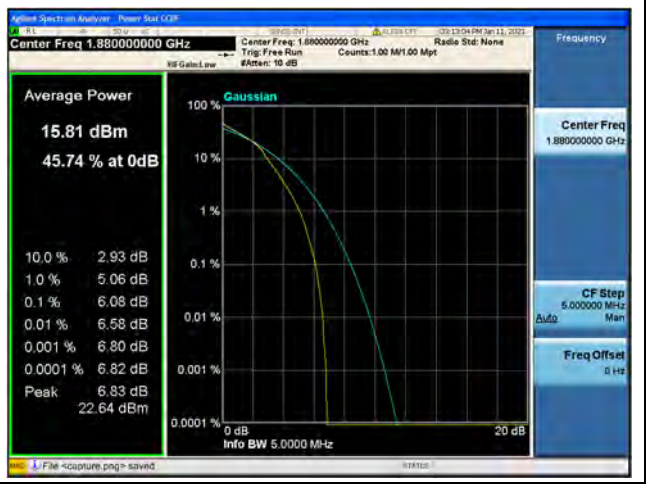
Band2 / 1.4MHz / Mid CH / QPSK



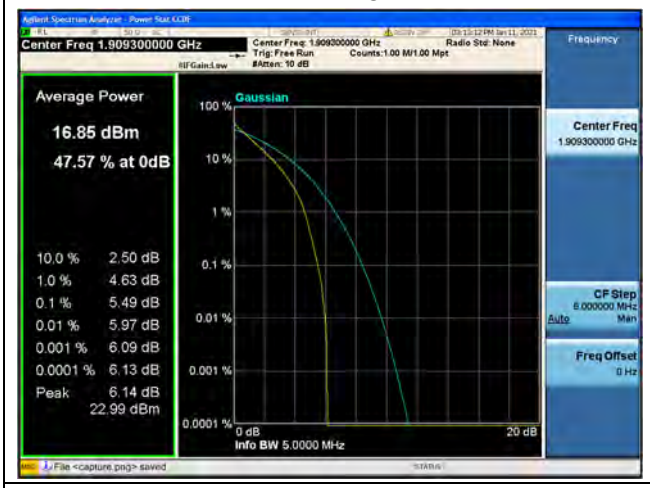
Band2 / 1.4MHz / Mid CH / 16QAM



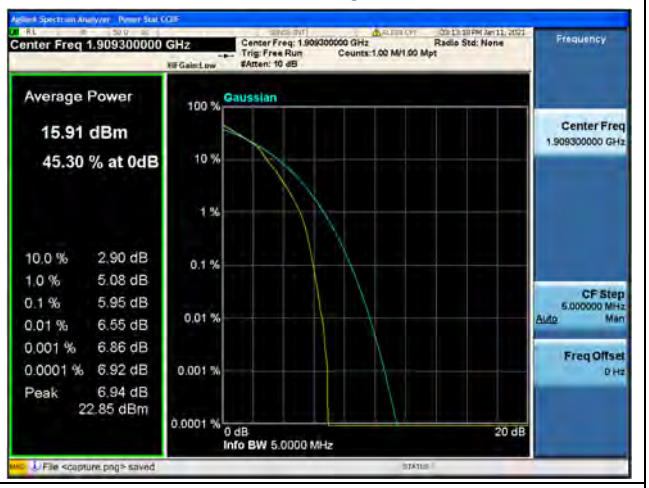
Band2 / 1.4MHz / Mid CH / 64QAM



Band2 / 1.4MHz / High CH / QPSK

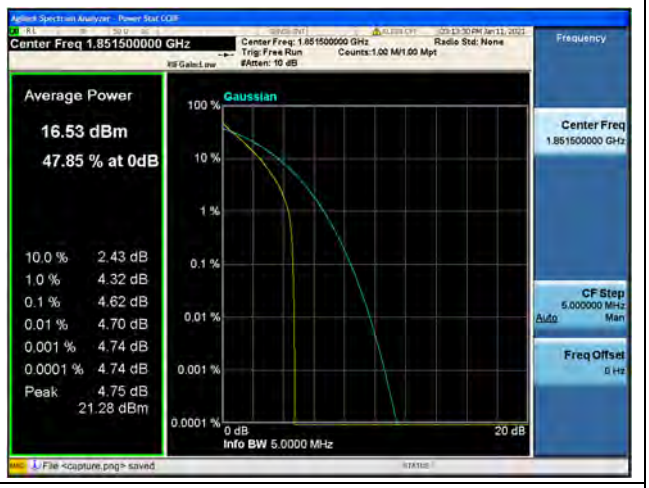


Band2 / 1.4MHz / High CH / 16QAM



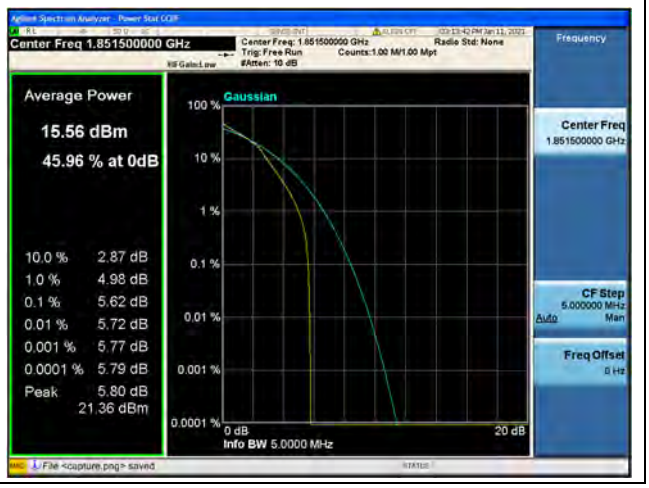
Band2 / 1.4MHz / High CH / 64QAM

Band2 / 3MHz / Low CH / QPSK



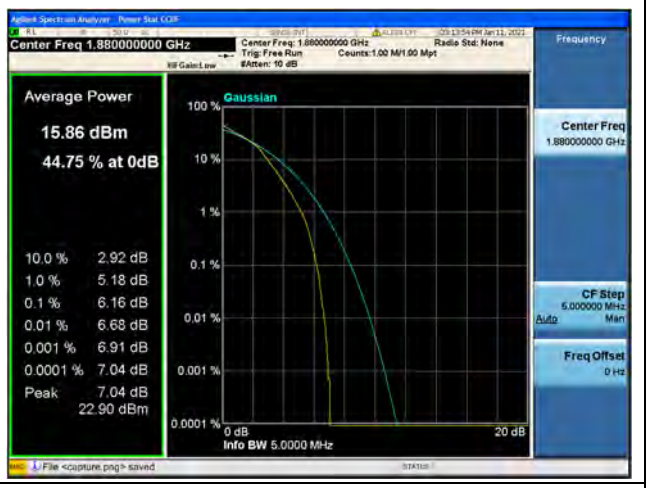
Band2 / 3MHz / Low CH / 16QAM

Band2 / 3MHz / Low CH / 64QAM



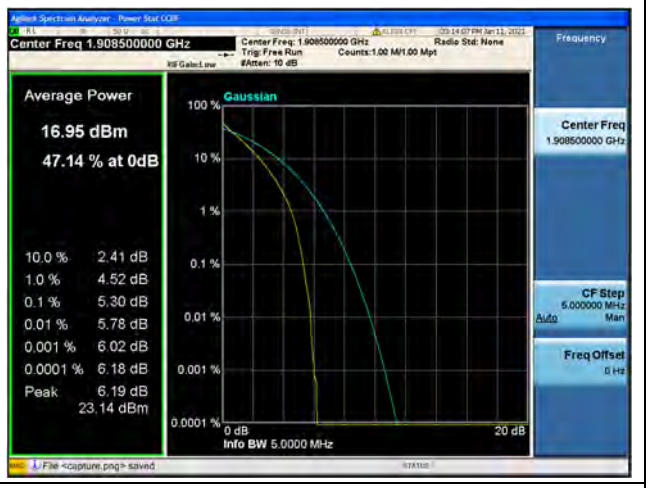
Band2 / 3MHz / Mid CH / QPSK

Band2 / 3MHz / Mid CH / 16QAM



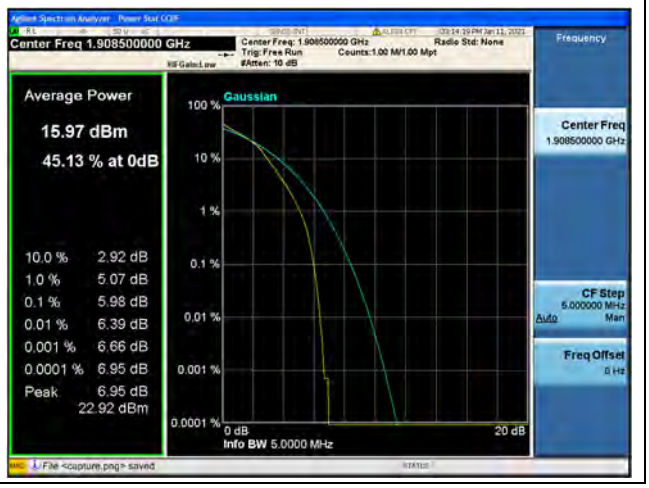
Band2 / 3MHz / Mid CH / 64QAM

Band2 / 3MHz / High CH / QPSK



Band2 / 3MHz / High CH / 16QAM

Band2 / 3MHz / High CH / 64QAM

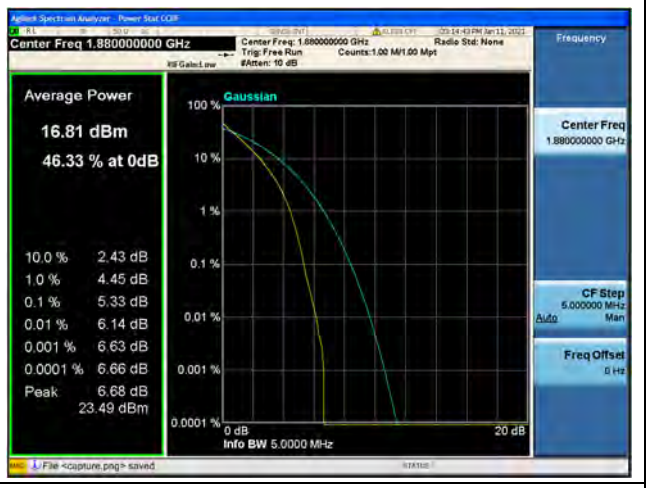


Band2 / 5MHz / Low CH / QPSK

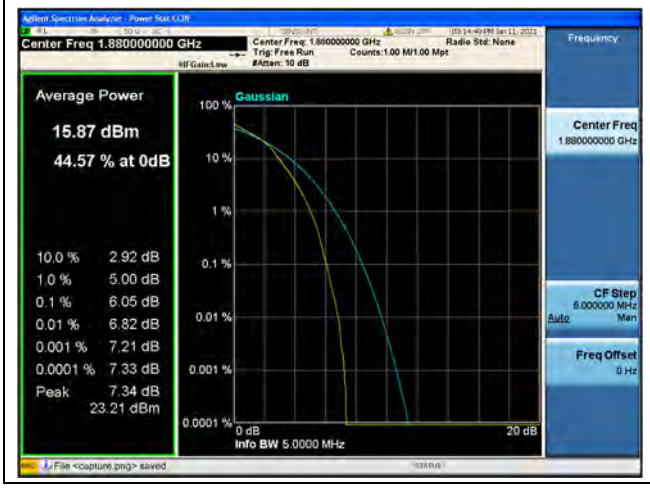
Band2 / 5MHz / Low CH / 16QAM

Band2 / 5MHz / Low CH / 64QAM

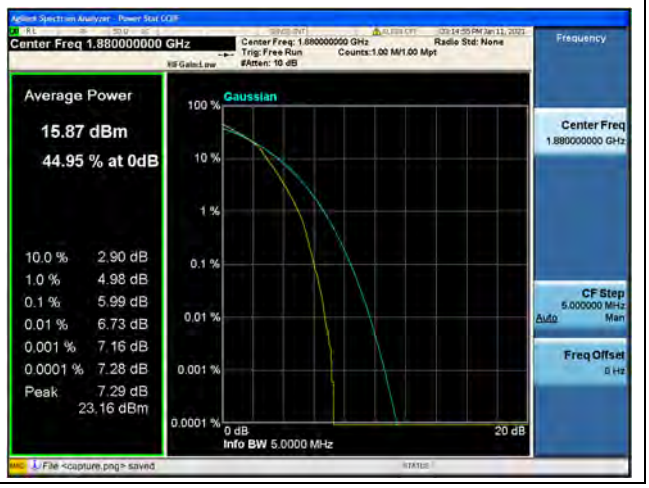
Band2 / 5MHz / Mid CH / QPSK



Band2 / 5MHz / Mid CH / 16QAM

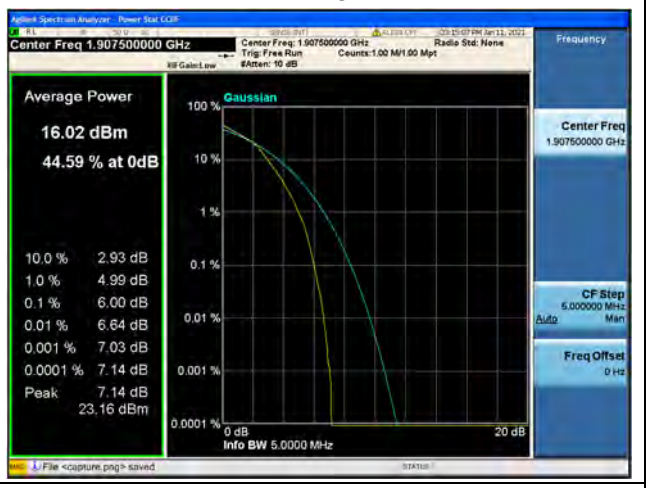


Band2 / 5MHz / Mid CH / 64QAM



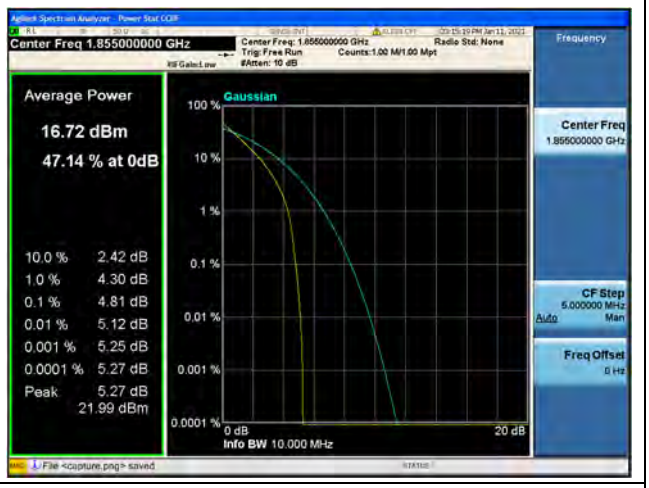
Band2 / 5MHz / High CH / QPSK

Band2 / 5MHz / High CH / 16QAM

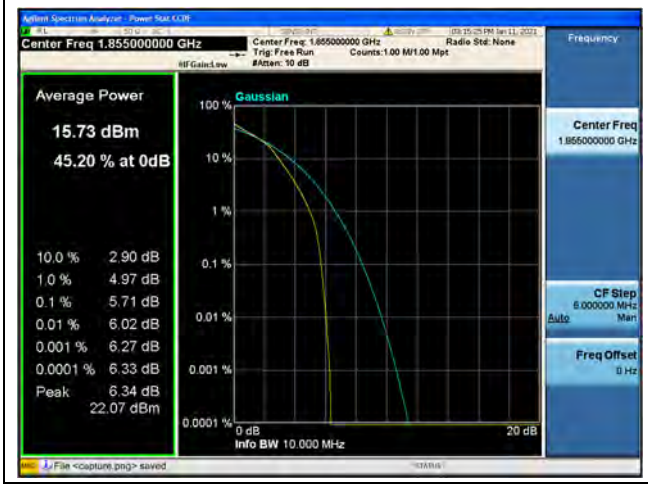


Band2 / 5MHz / High CH / 64QAM

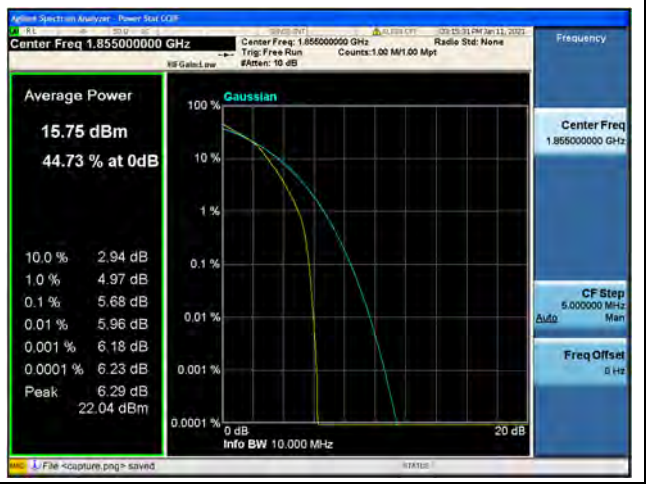
Band2 / 10MHz / Low CH / QPSK



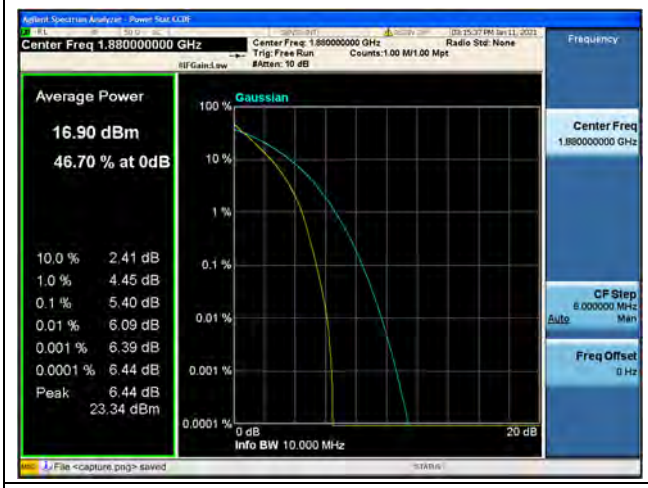
Band2 / 10MHz / Low CH / 16QAM



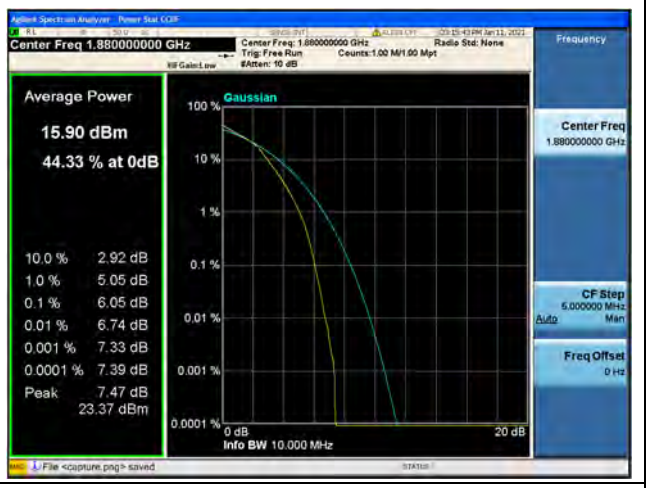
Band2 / 10MHz / Low CH / 64QAM



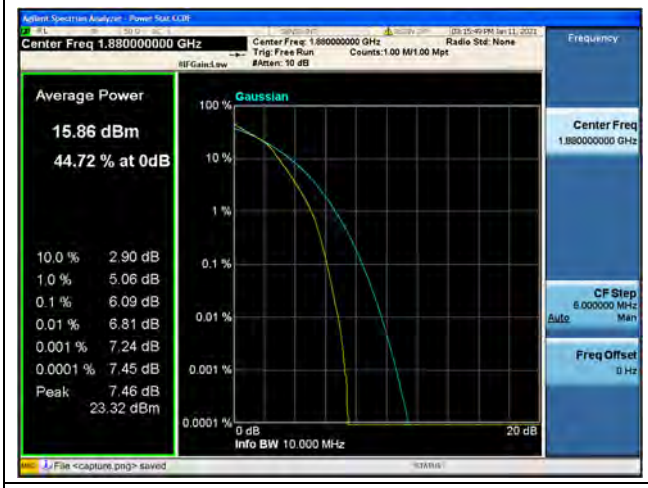
Band2 / 10MHz / Mid CH / QPSK



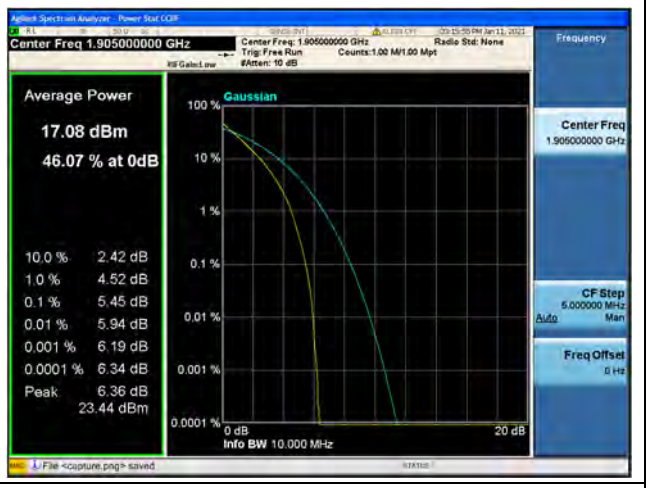
Band2 / 10MHz / Mid CH / 16QAM



Band2 / 10MHz / Mid CH / 64QAM

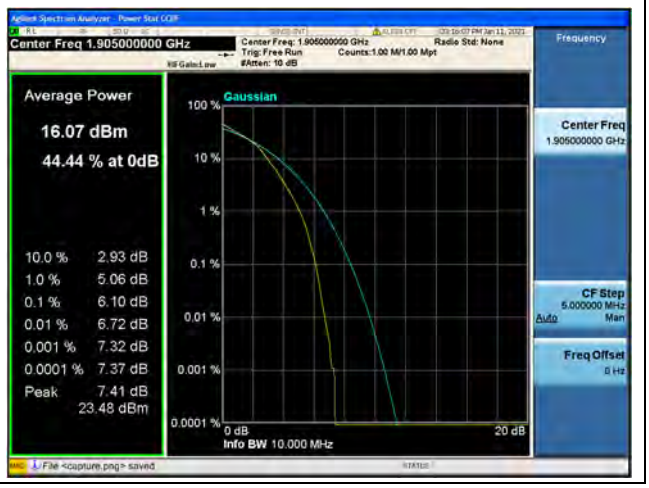


Band2 / 10MHz / High CH / QPSK



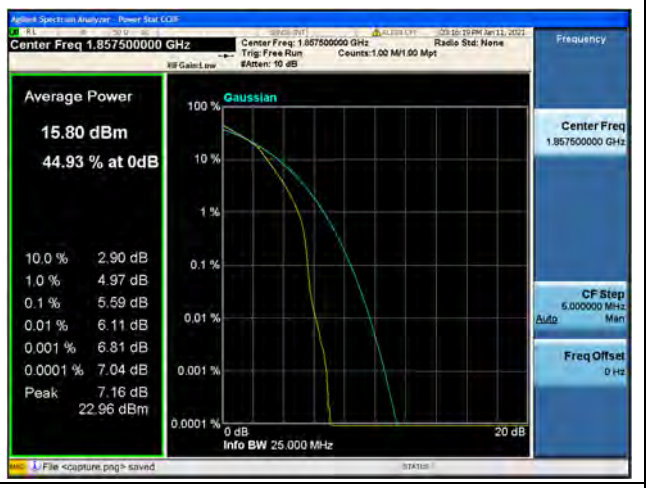
Band2 / 10MHz / High CH / 16QAM

Band2 / 10MHz / High CH / 64QAM



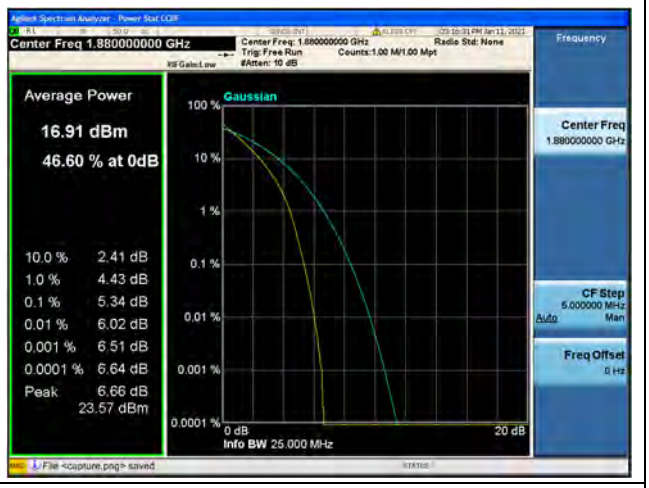
Band2 / 15MHz / Low CH / QPSK

Band2 / 15MHz / Low CH / 16QAM

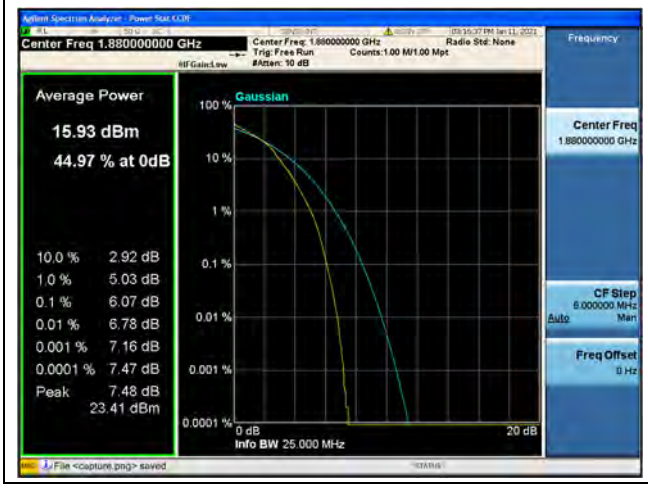


Band2 / 15MHz / Low CH / 64QAM

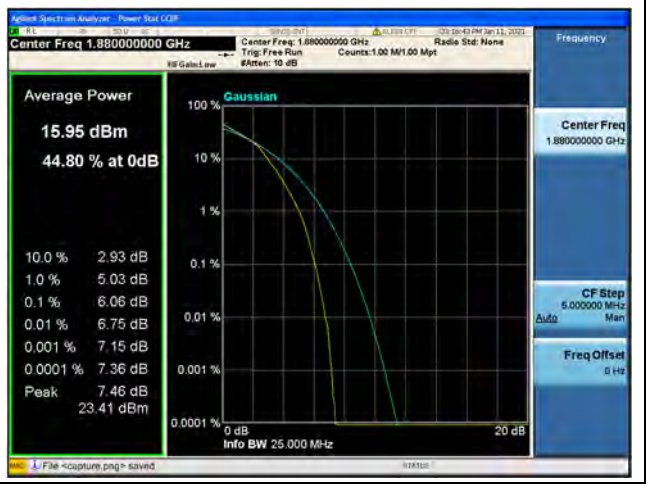
Band2 / 15MHz / Mid CH / QPSK



Band2 / 15MHz / Mid CH / 16QAM

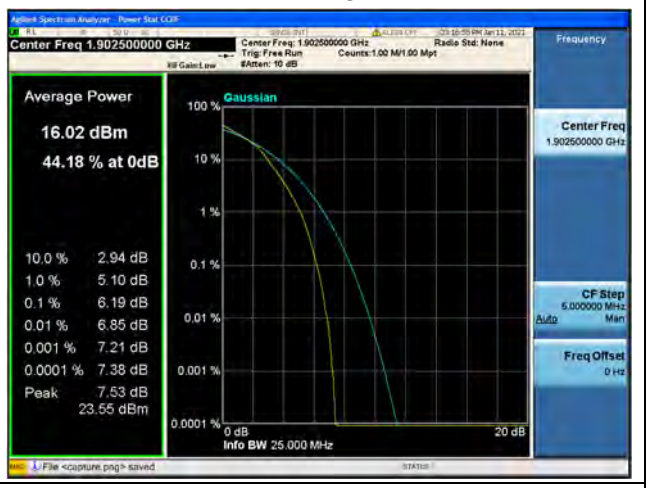


Band2 / 15MHz / Mid CH / 64QAM



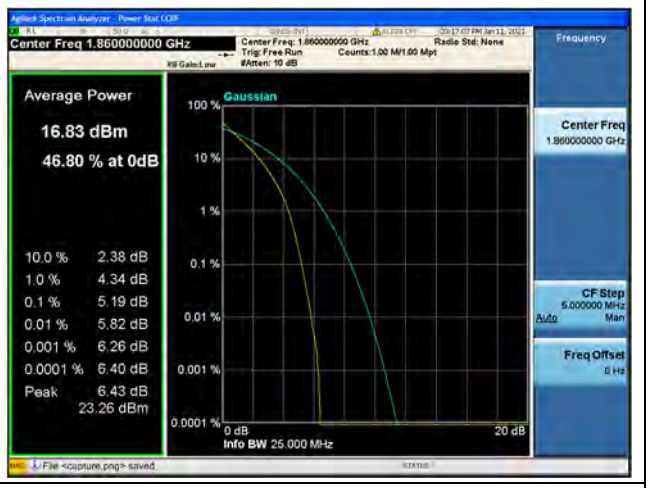
Band2 / 15MHz / High CH / QPSK

Band2 / 15MHz / High CH / 16QAM



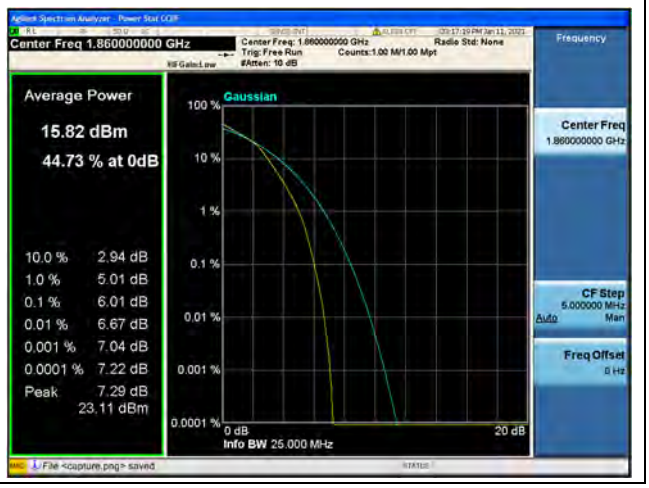
Band2 / 15MHz / High CH / 64QAM

Band2 / 20MHz / Low CH / QPSK



Band2 / 20MHz / Low CH / 16QAM

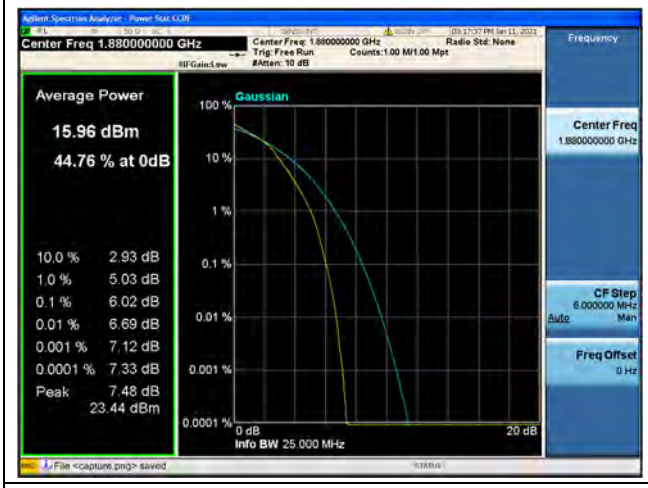
Band2 / 20MHz / Low CH / 64QAM



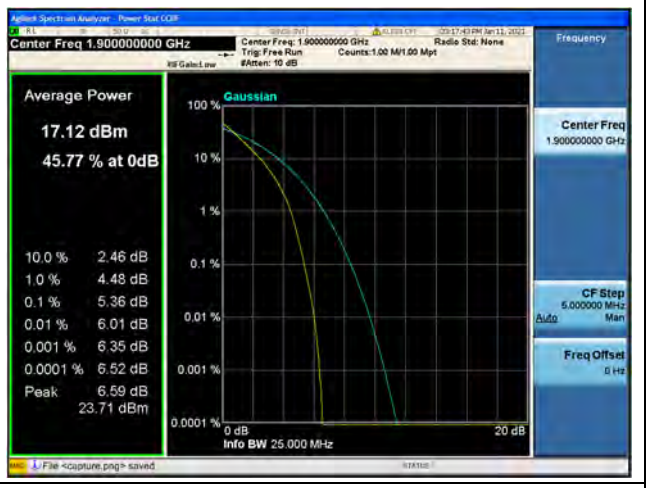
Band2 / 20MHz / Mid CH / QPSK

Band2 / 20MHz / Mid CH / 16QAM

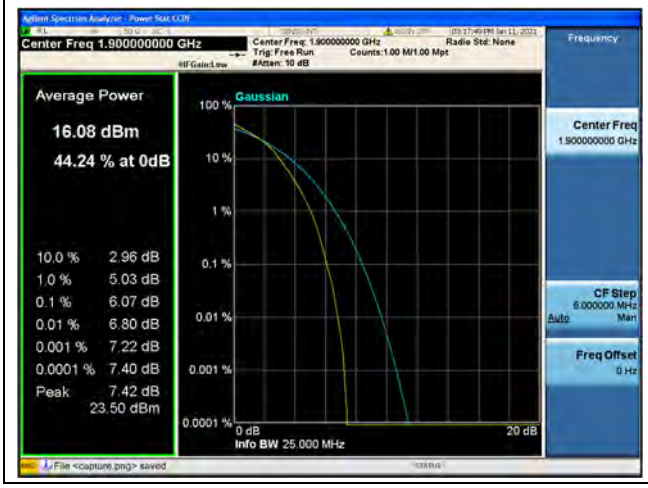
Band2 / 20MHz / Mid CH / 64QAM



Band2 / 20MHz / High CH / QPSK

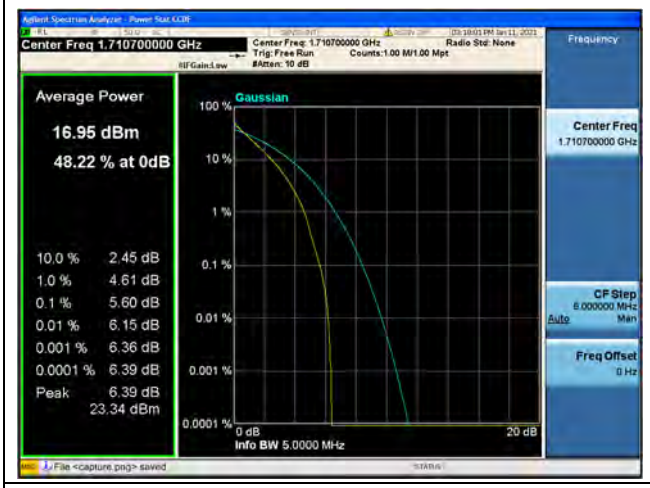


Band2 / 20MHz / High CH / 16QAM

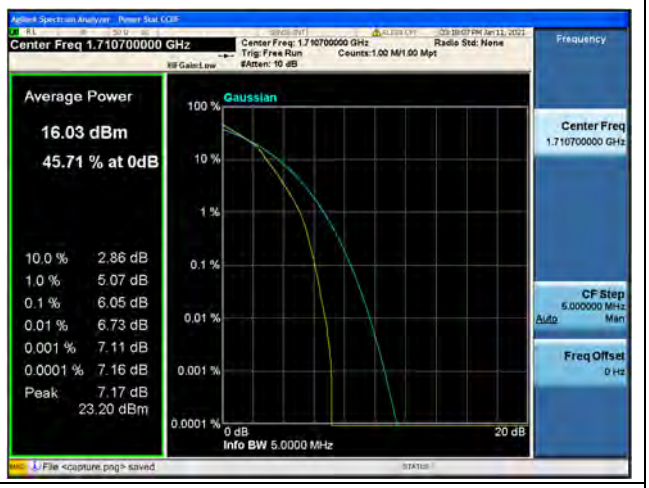


Band2 / 20MHz / High CH / 64QAM

Band4 / 1.4MHz / Low CH / QPSK

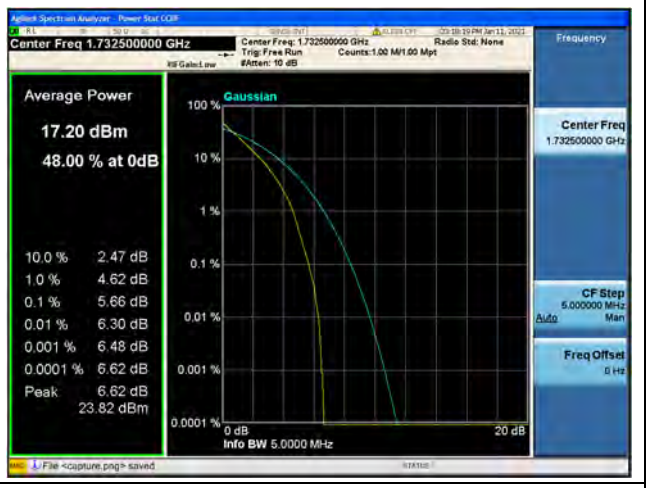


Band4 / 1.4MHz / Low CH / 16QAM



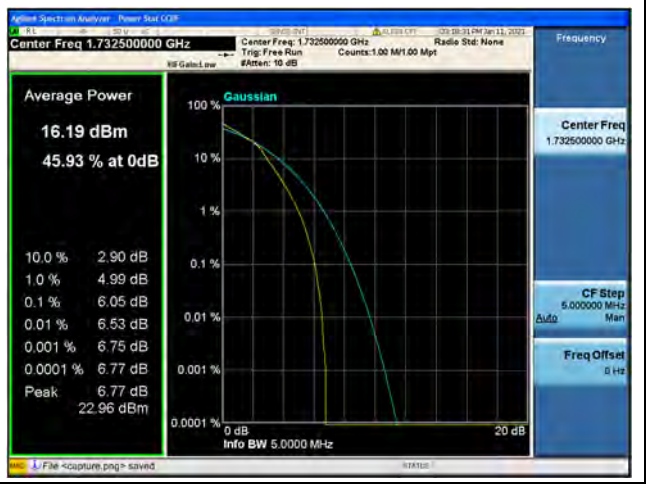
Band4 / 1.4MHz / Low CH / 64QAM

Band4 / 1.4MHz / Mid CH / QPSK



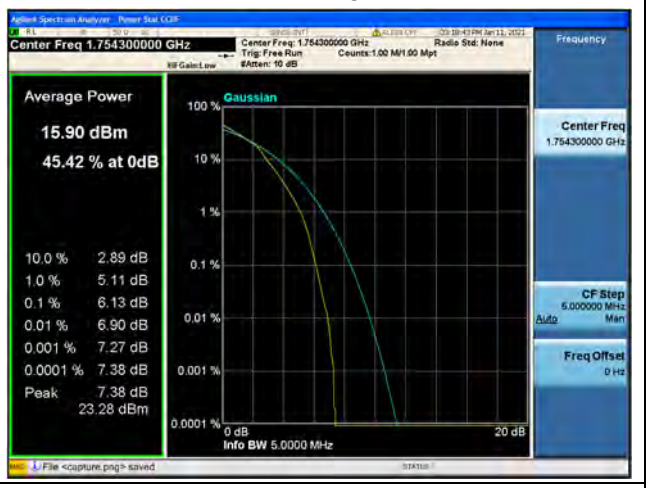
Band4 / 1.4MHz / Mid CH / 16QAM

Band4 / 1.4MHz / Mid CH / 64QAM



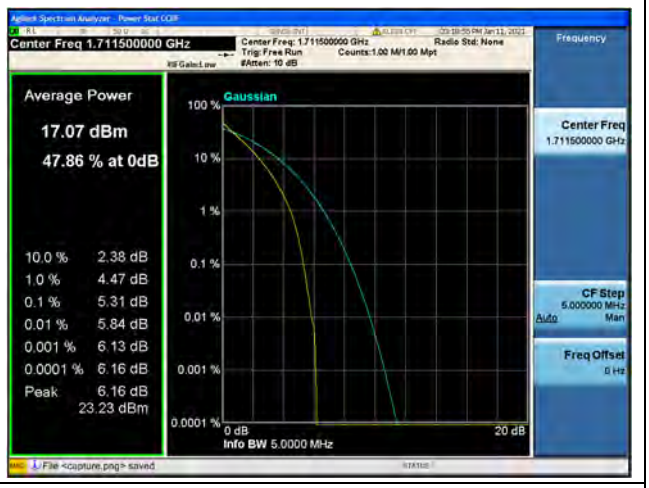
Band4 / 1.4MHz / High CH / QPSK

Band4 / 1.4MHz / High CH / 16QAM



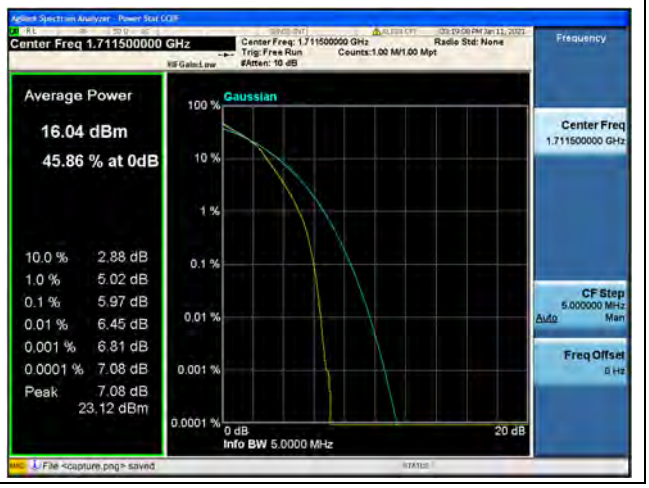
Band4 / 1.4MHz / High CH / 64QAM

Band4 / 3MHz / Low CH / QPSK



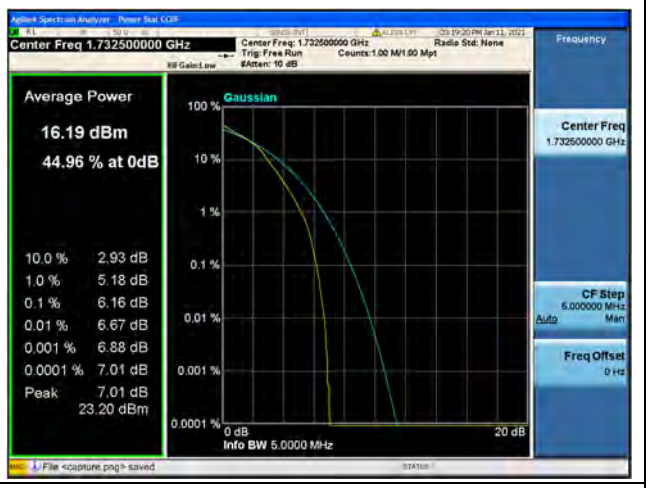
Band4 / 3MHz / Low CH / 16QAM

Band4 / 3MHz / Low CH / 64QAM



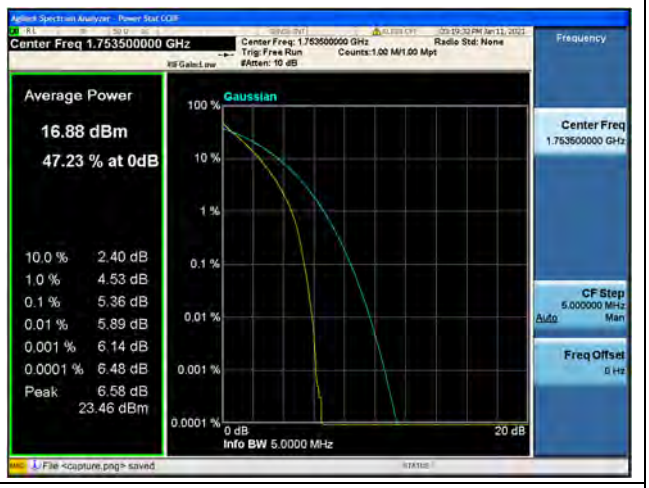
Band4 / 3MHz / Mid CH / QPSK

Band4 / 3MHz / Mid CH / 16QAM



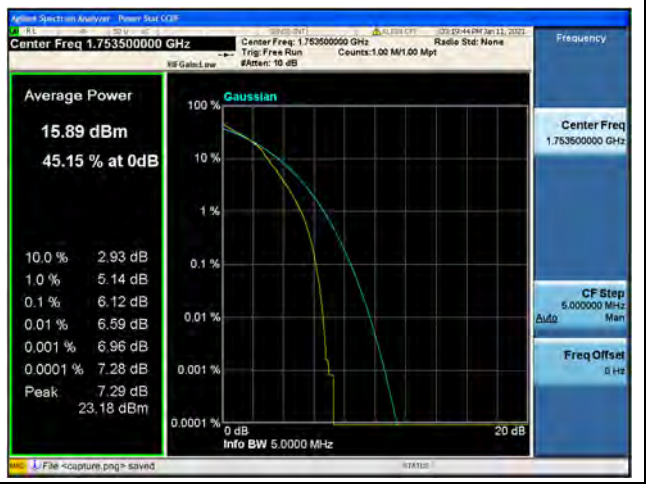
Band4 / 3MHz / Mid CH / 64QAM

Band4 / 3MHz / High CH / QPSK



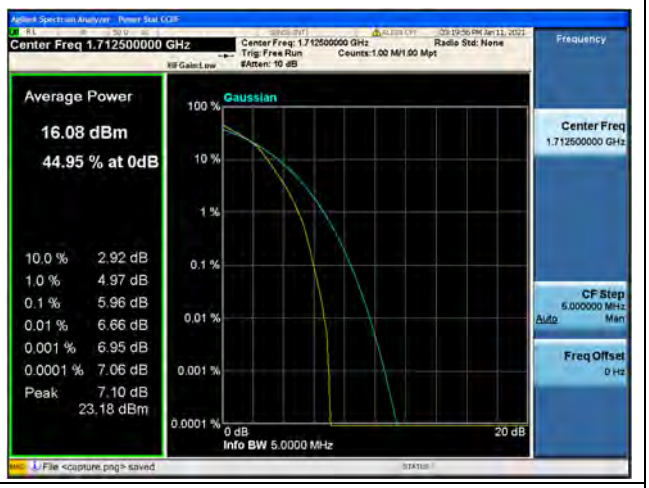
Band4 / 3MHz / High CH / 16QAM

Band4 / 3MHz / High CH / 64QAM



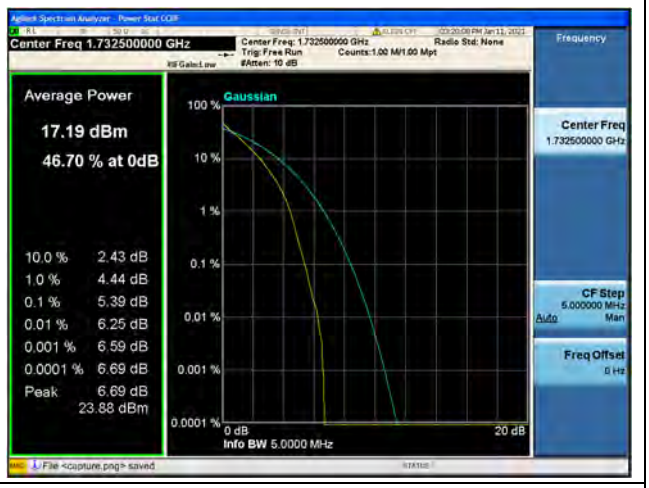
Band4 / 5MHz / Low CH / QPSK

Band4 / 5MHz / Low CH / 16QAM



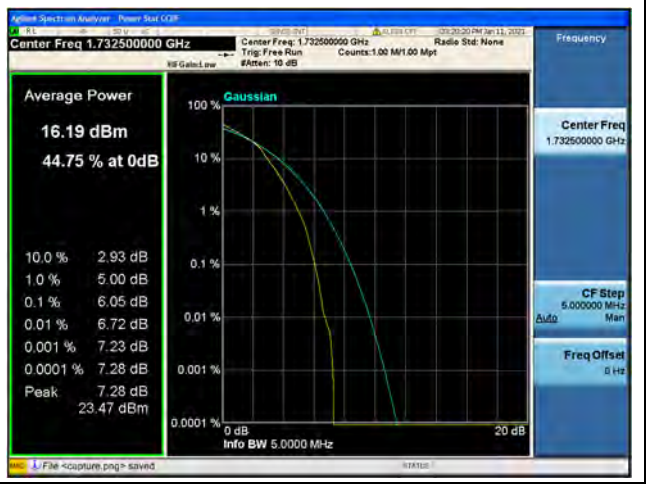
Band4 / 5MHz / Low CH / 64QAM

Band4 / 5MHz / Mid CH / QPSK

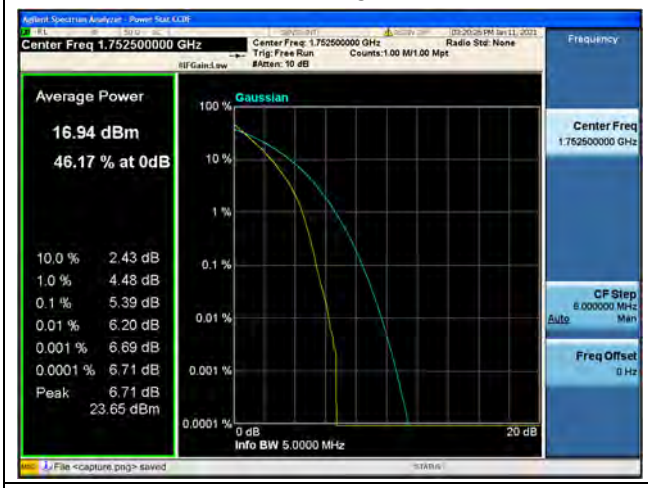


Band4 / 5MHz / Mid CH / 16QAM

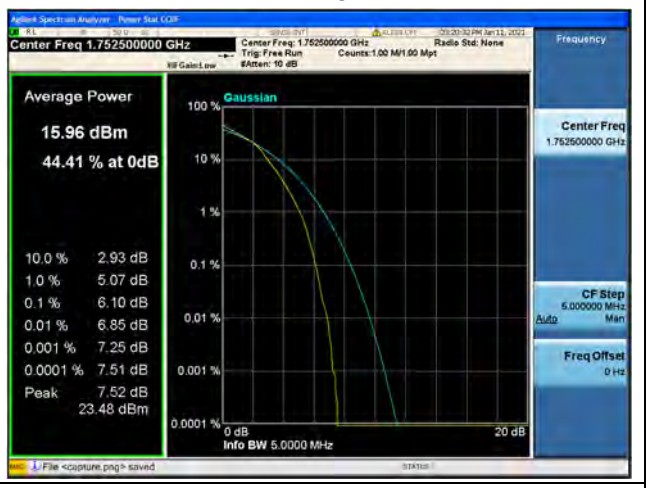
Band4 / 5MHz / Mid CH / 64QAM



Band4 / 5MHz / High CH / QPSK

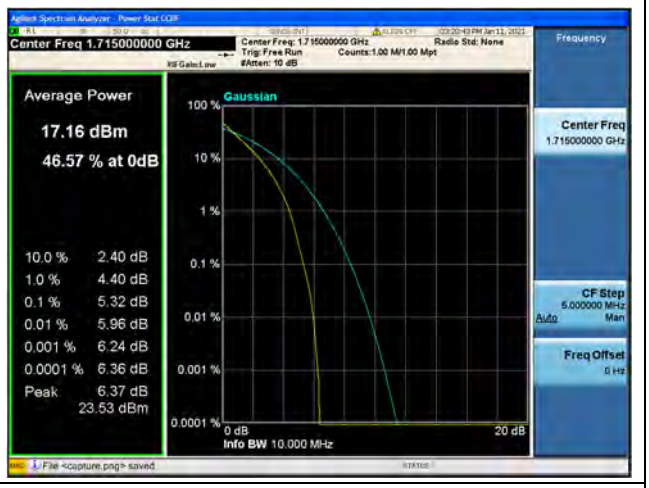


Band4 / 5MHz / High CH / 16QAM



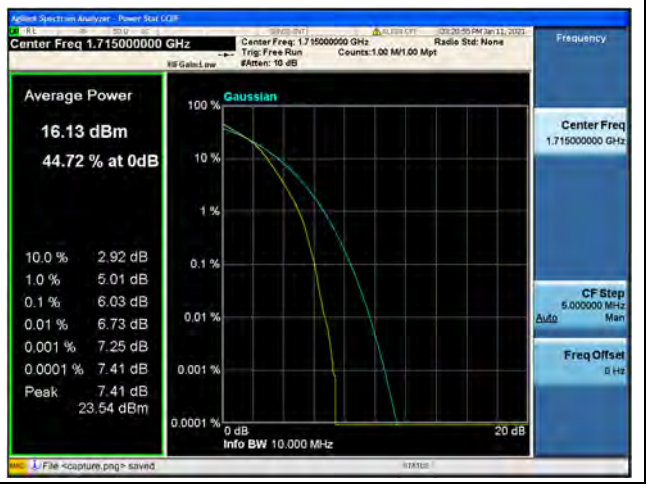
Band4 / 5MHz / High CH / 64QAM

Band4 / 10MHz / Low CH / QPSK



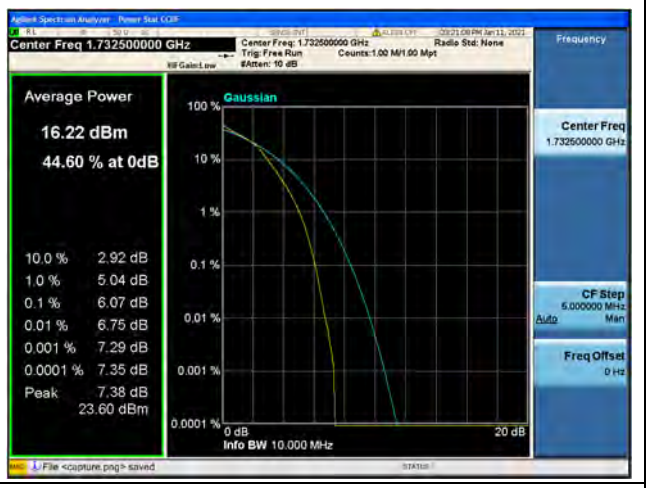
Band4 / 10MHz / Low CH / 16QAM

Band4 / 10MHz / Low CH / 64QAM



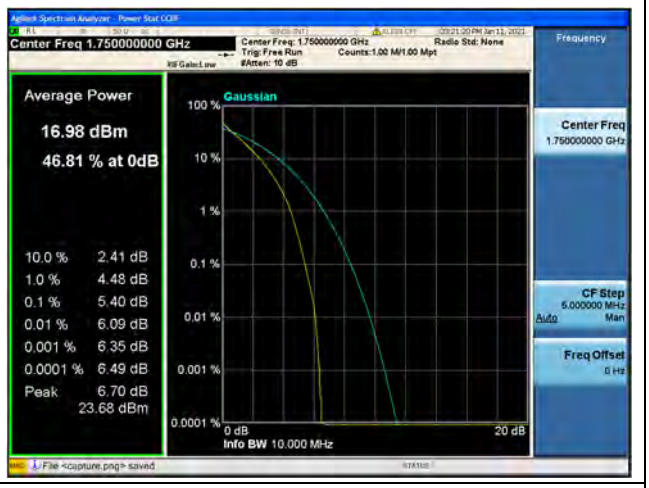
Band4 / 10MHz / Mid CH / QPSK

Band4 / 10MHz / Mid CH / 16QAM

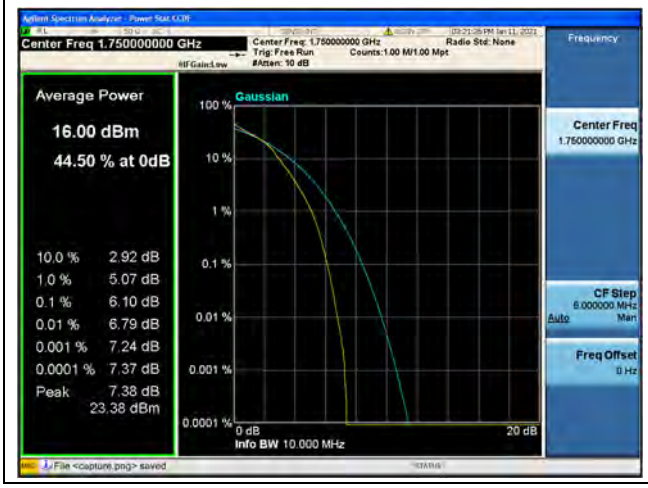


Band4 / 10MHz / Mid CH / 64QAM

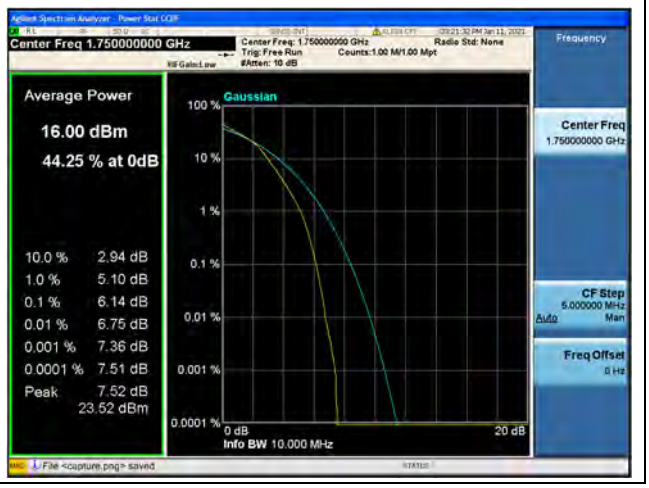
Band4 / 10MHz / High CH / QPSK



Band4 / 10MHz / High CH / 16QAM

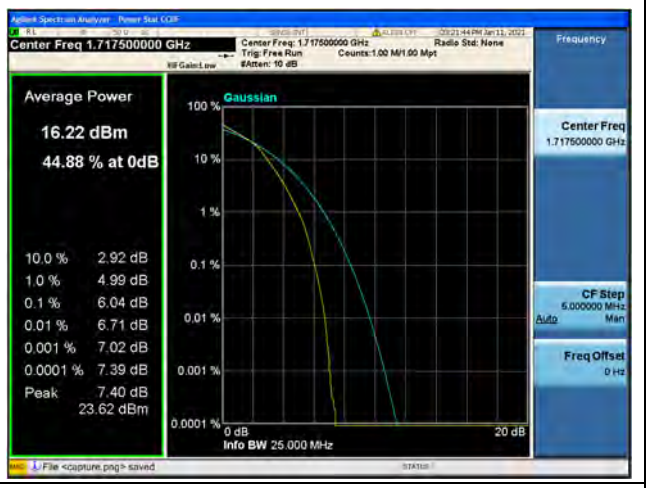


Band4 / 10MHz / High CH / 64QAM



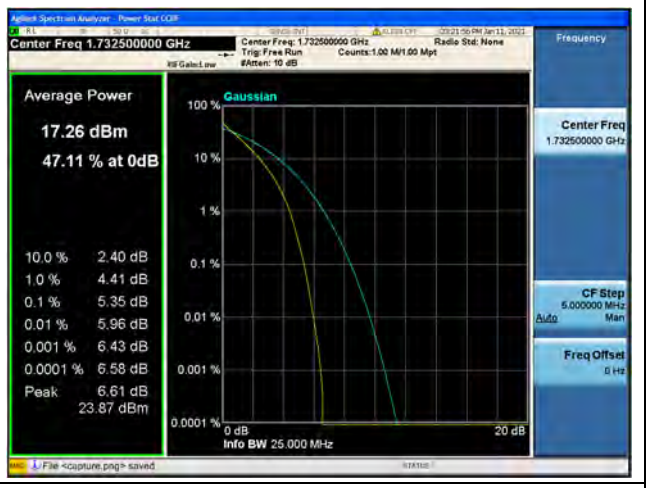
Band4 / 15MHz / Low CH / QPSK

Band4 / 15MHz / Low CH / 16QAM



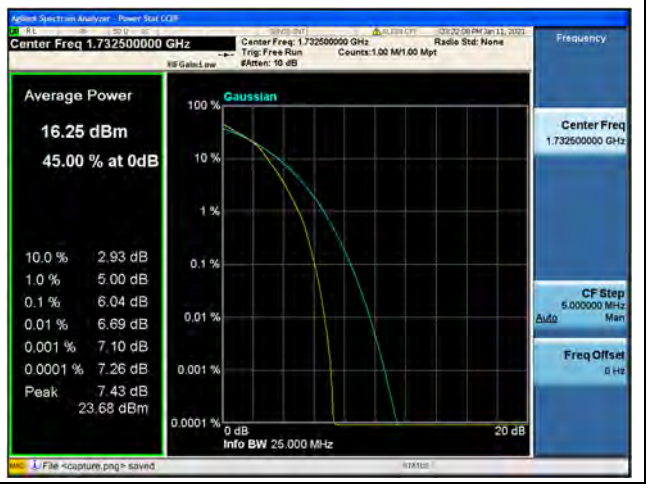
Band4 / 15MHz / Low CH / 64QAM

Band4 / 15MHz / Mid CH / QPSK



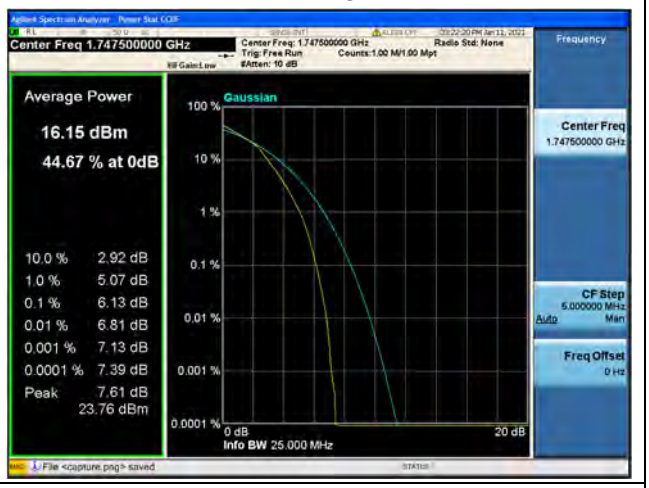
Band4 / 15MHz / Mid CH / 16QAM

Band4 / 15MHz / Mid CH / 64QAM

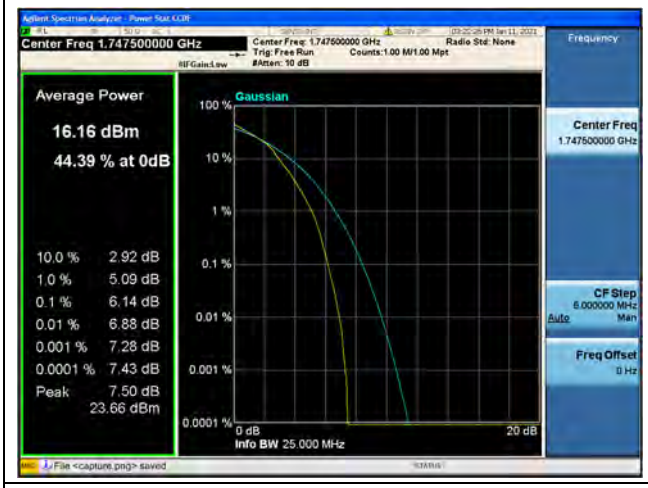


Band4 / 15MHz / High CH / QPSK

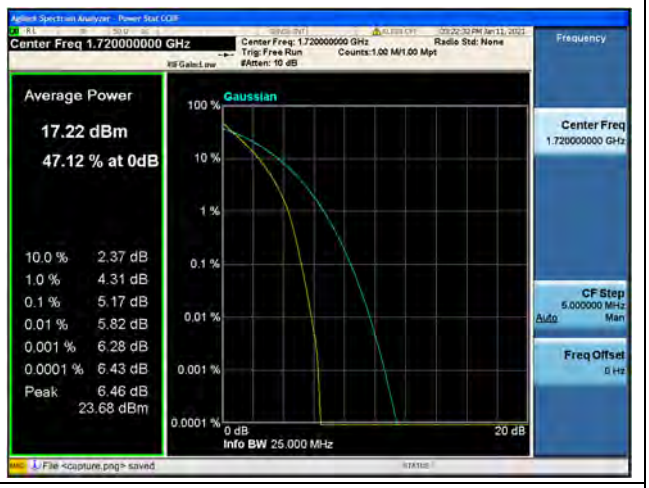
Band4 / 15MHz / High CH / 16QAM



Band4 / 15MHz / High CH / 64QAM

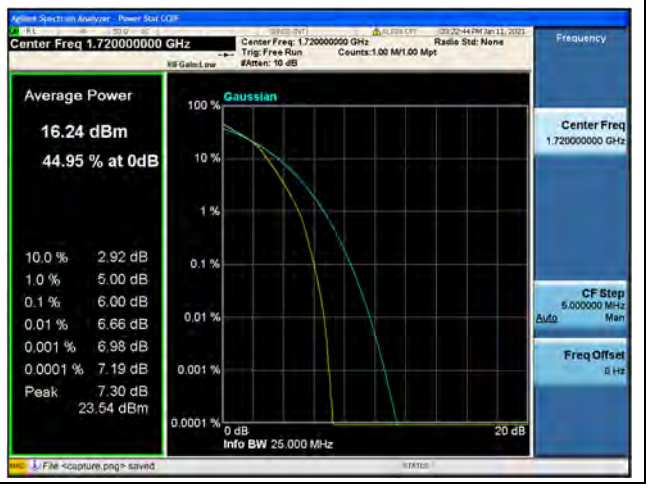


Band4 / 20MHz / Low CH / QPSK



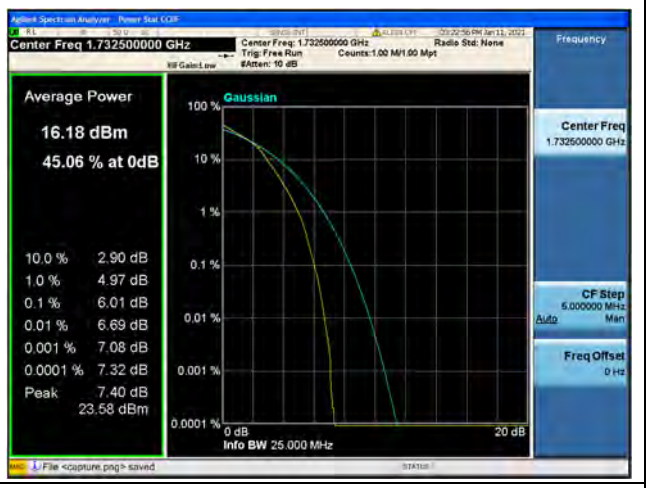
Band4 / 20MHz / Low CH / 16QAM

Band4 / 20MHz / Low CH / 64QAM



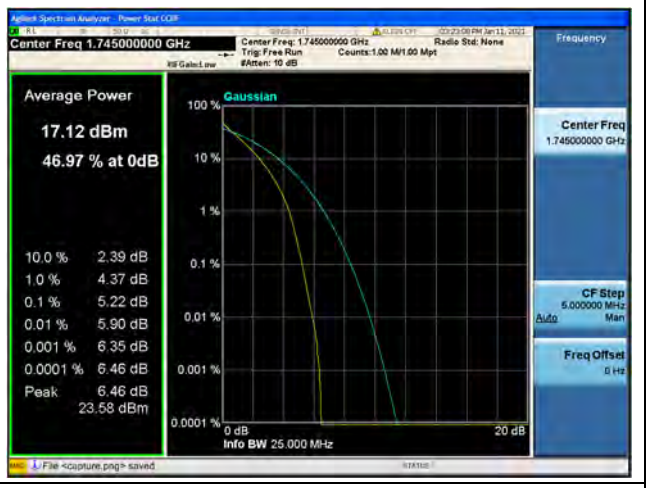
Band4 / 20MHz / Mid CH / QPSK

Band4 / 20MHz / Mid CH / 16QAM



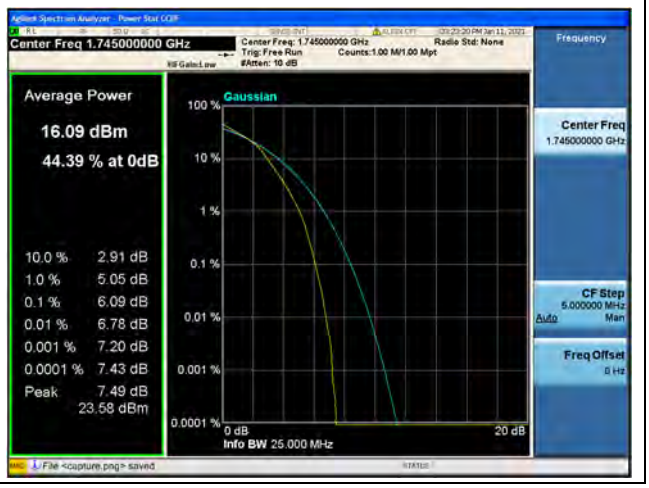
Band4 / 20MHz / Mid CH / 64QAM

Band4 / 20MHz / High CH / QPSK

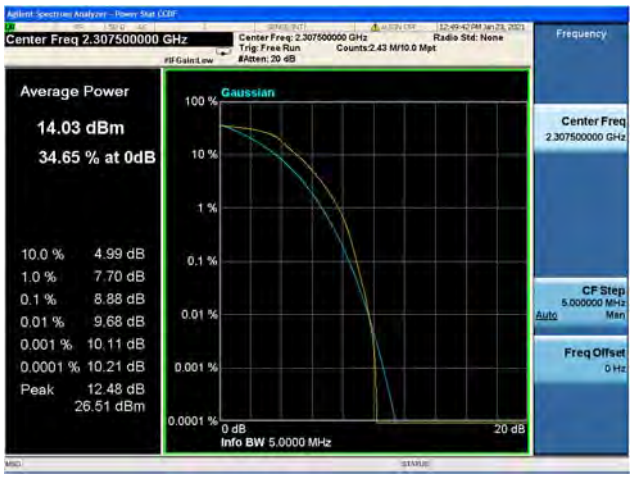


Band4 / 20MHz / High CH / 16QAM

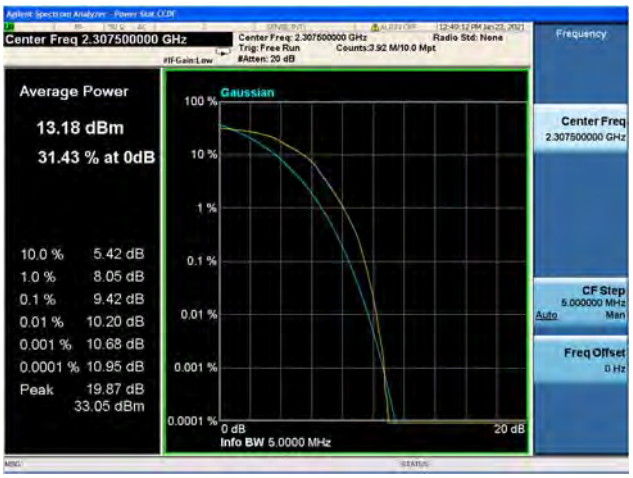
Band4 / 20MHz / High CH / 64QAM



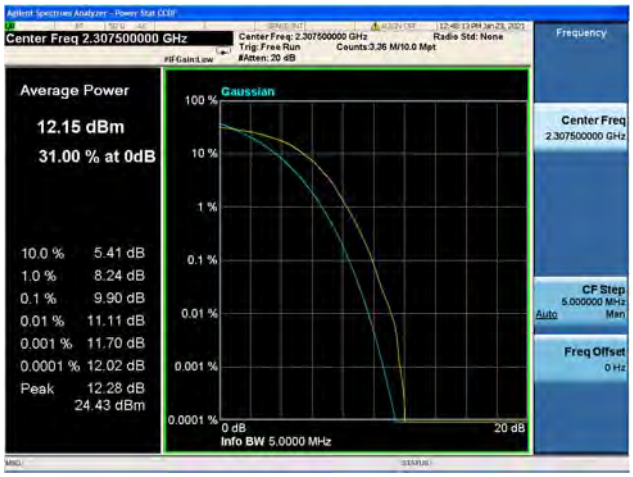
Band40/ Block A / 5MHz / Low CH / QPSK



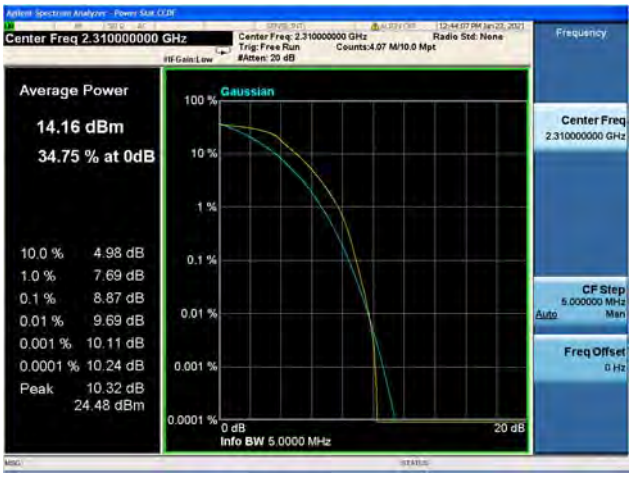
Band40/ Block A / 5MHz / Low CH / 16QAM



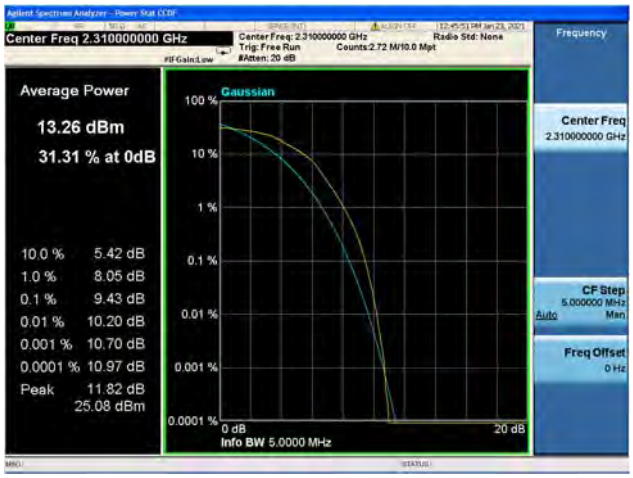
Band40/ Block A / 5MHz / Low CH / 64QAM



Band40/ Block A / 5MHz / Mid CH / QPSK



Band40/ Block A / 5MHz / Mid CH / 16QAM



Band40/ Block A / 5MHz / Mid CH / 64QAM