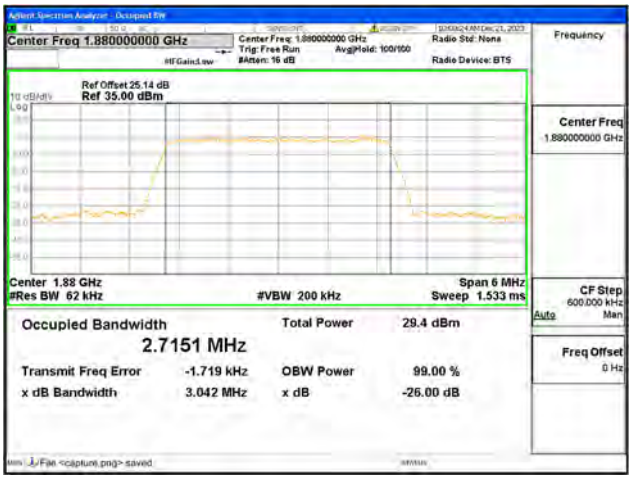
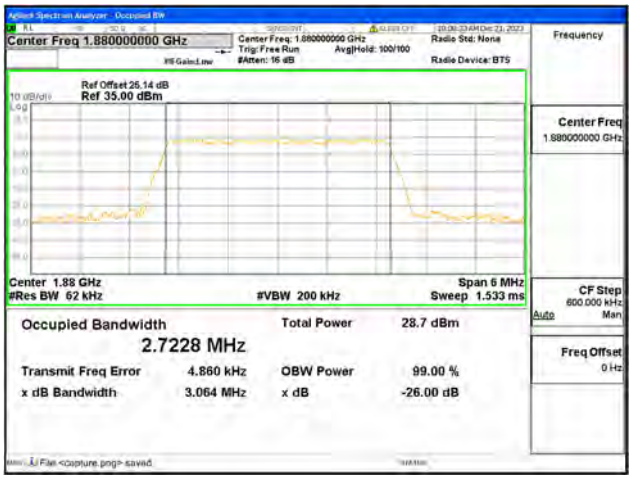
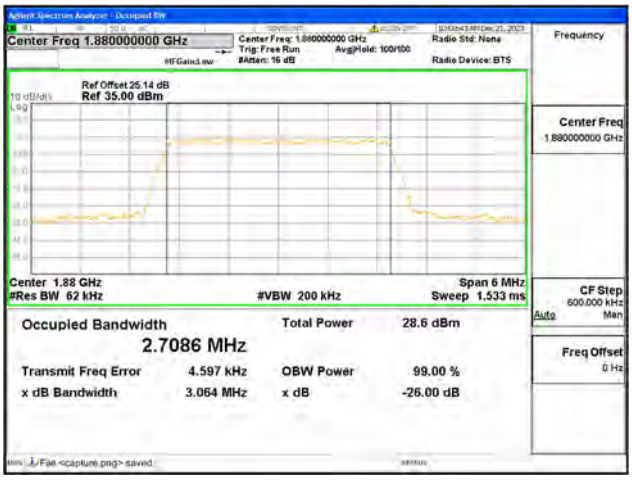


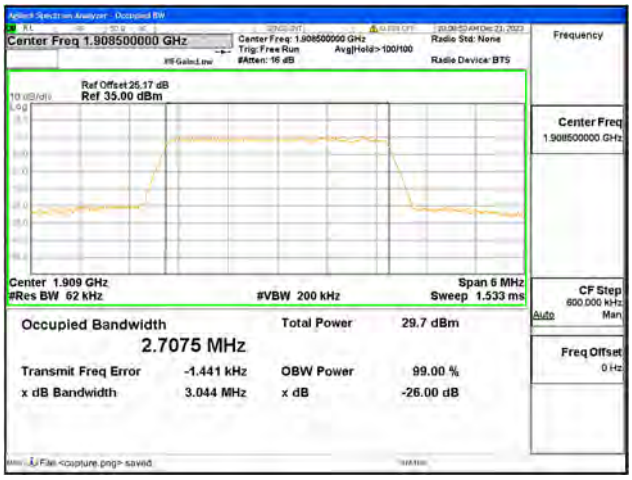
B2 / 3MHz / QPSK/ Mid CH



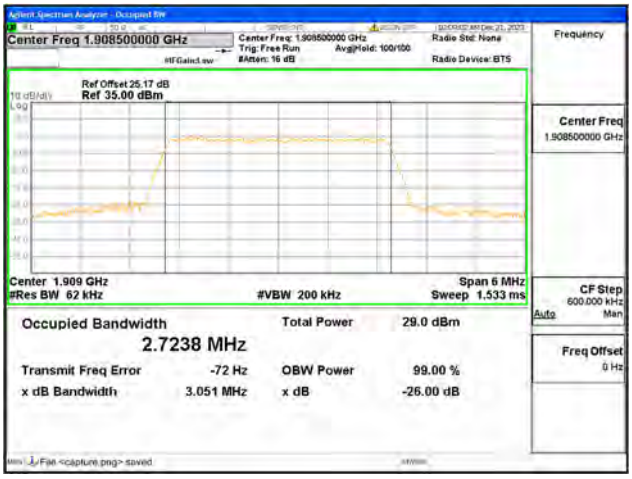
B2 / 3MHz / 64QAM/ Mid CH



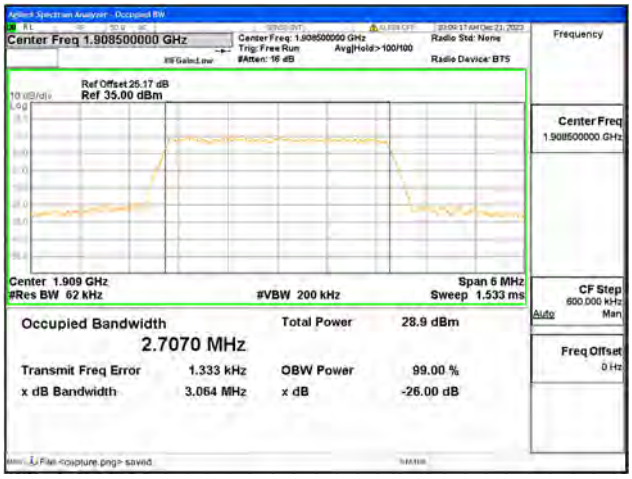
B2 / 3MHz / 16QAM/ Mid CH



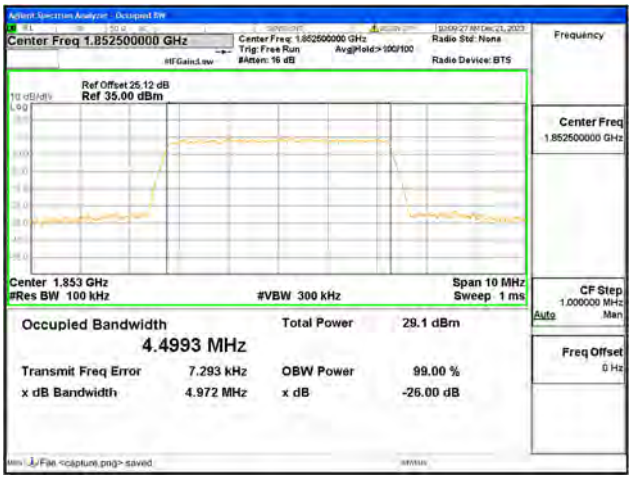
B2 / 3MHz / QPSK/ High CH



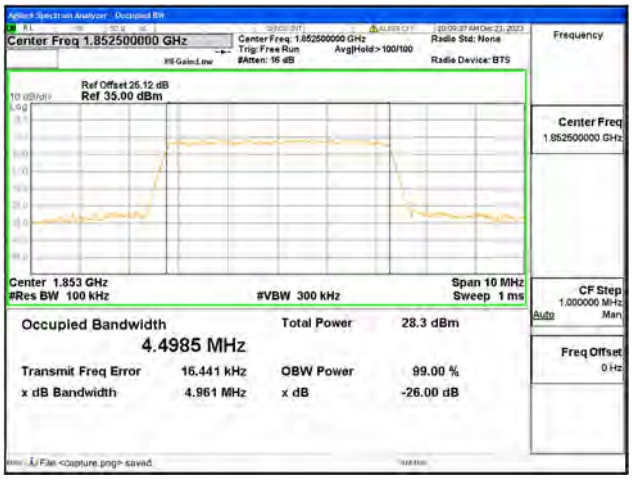
B2 / 3MHz / 64QAM/ High CH



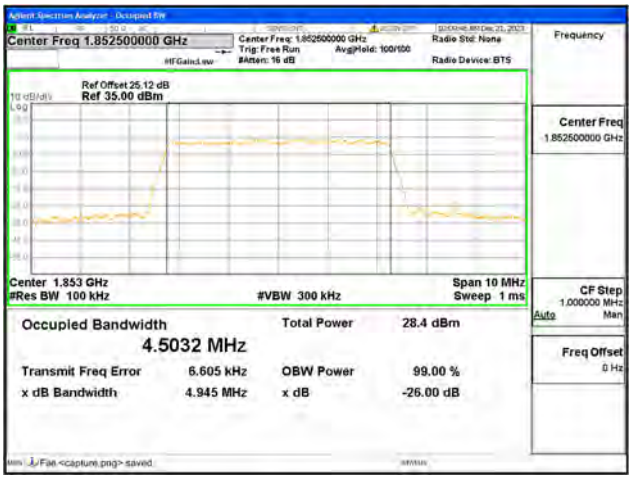
B2 / 3MHz / 16QAM/ High CH



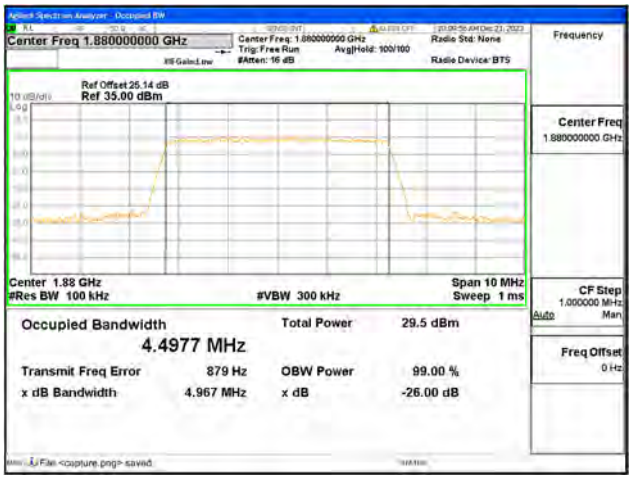
B2 / 5MHz / QPSK/ Low CH



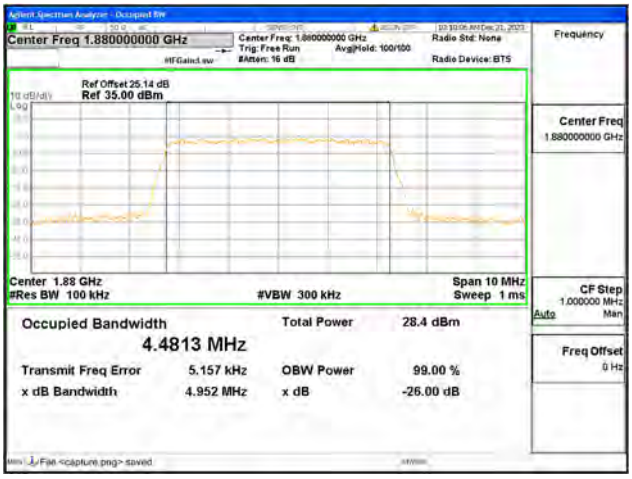
B2 / 5MHz / 64QAM/ Low CH



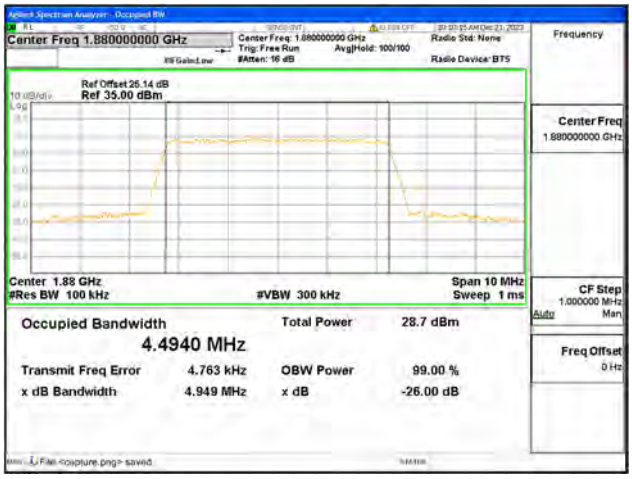
B2 / 5MHz / 16QAM/ Low CH



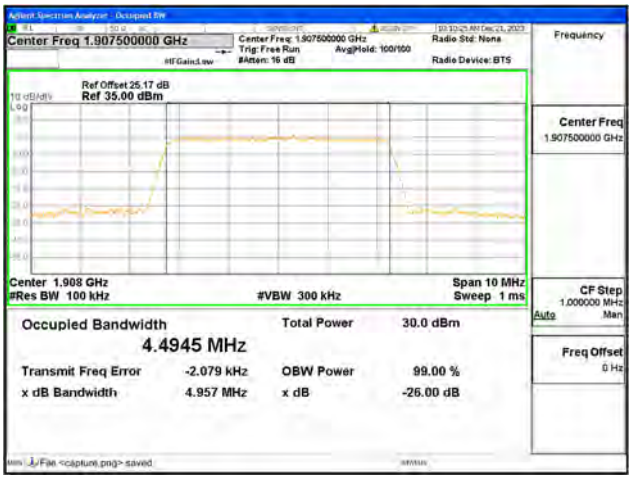
B2 / 5MHz / QPSK/ Mid CH



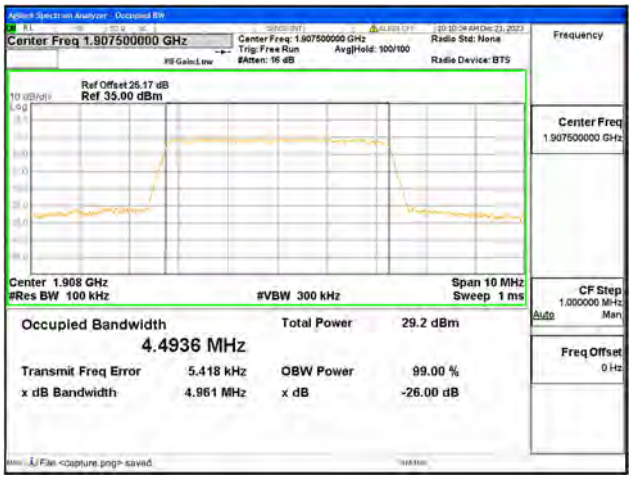
B2 / 5MHz / 64QAM/ Mid CH



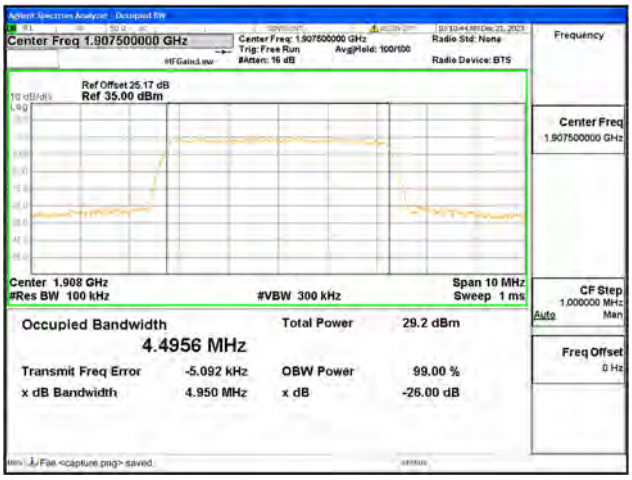
B2 / 5MHz / 16QAM/ Mid CH



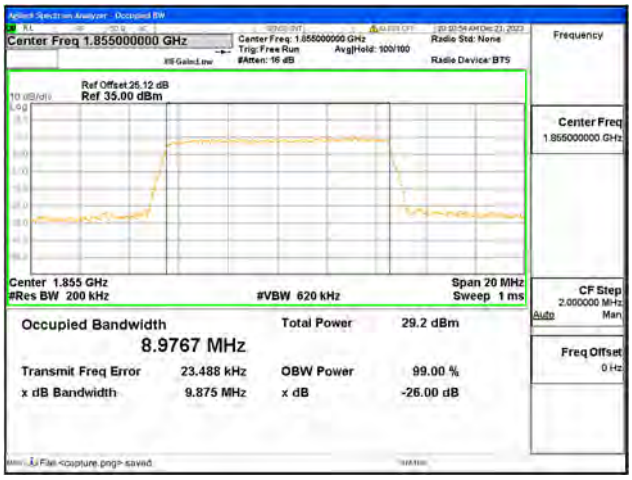
B2 / 5MHz / QPSK/ High CH



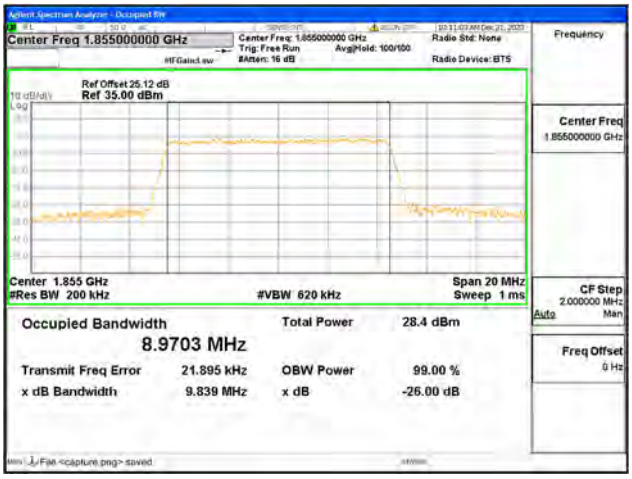
B2 / 5MHz / 64QAM/ High CH



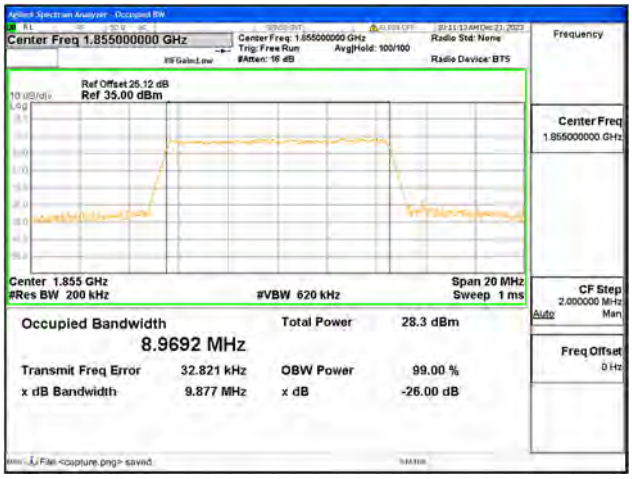
B2 / 5MHz / 16QAM/ High CH



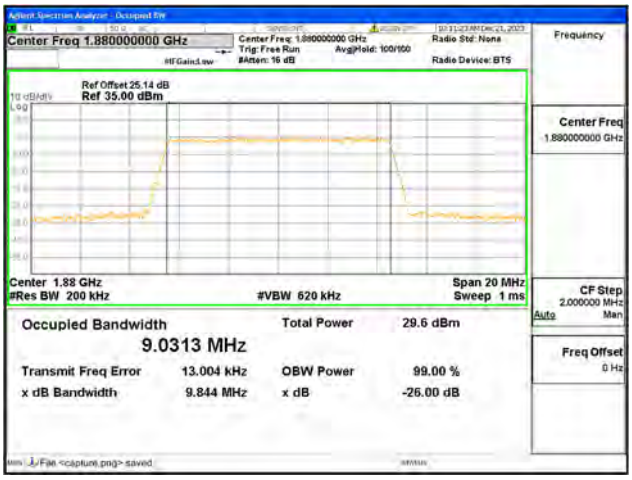
B2 / 10MHz / QPSK/ Low CH



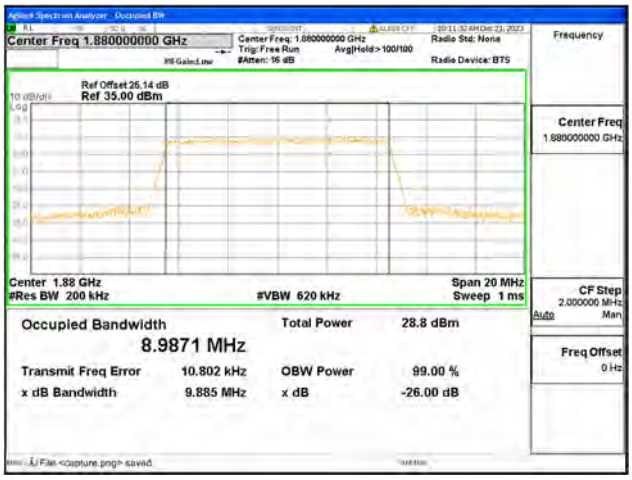
B2 / 10MHz / 64QAM/ Low CH



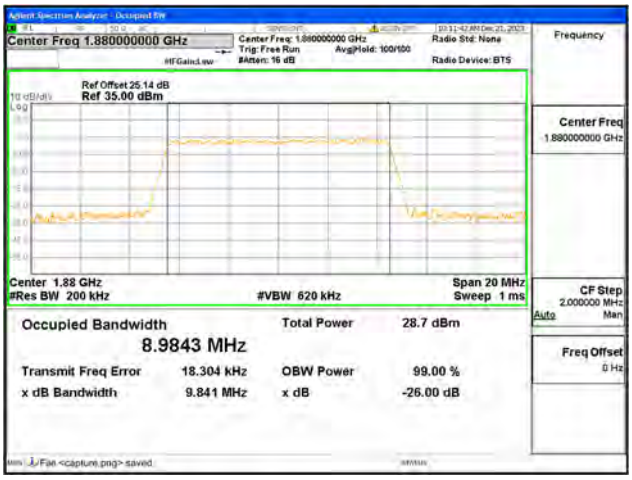
B2 / 10MHz / 16QAM/ Low CH



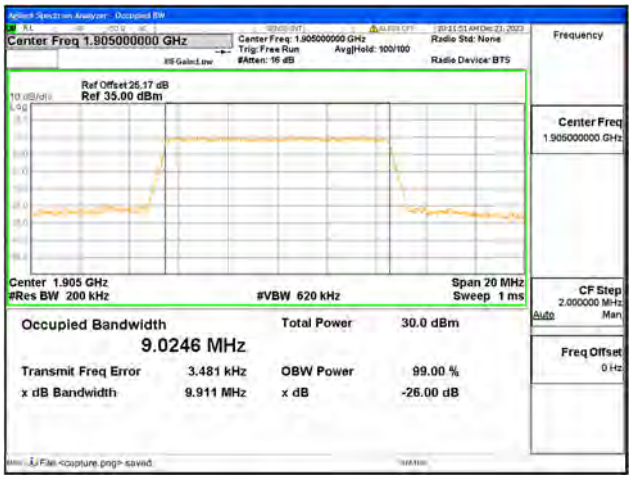
B2 / 10MHz / QPSK/ Mid CH



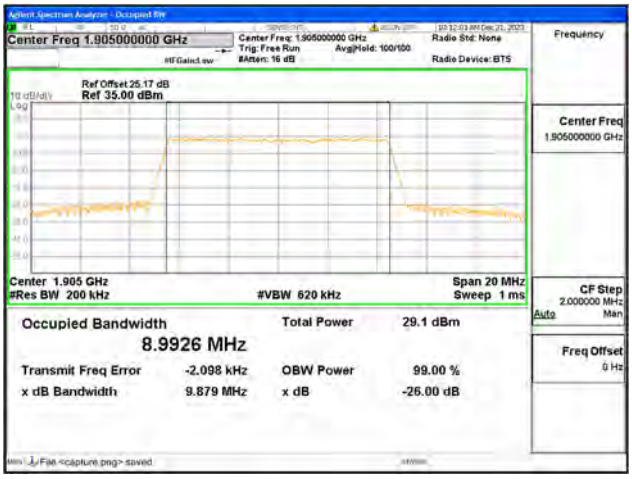
B2 / 10MHz / 64QAM/ Mid CH



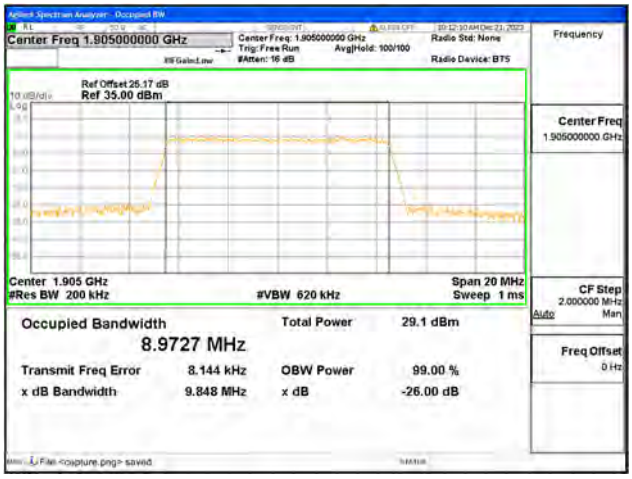
B2 / 10MHz / 16QAM/ Mid CH



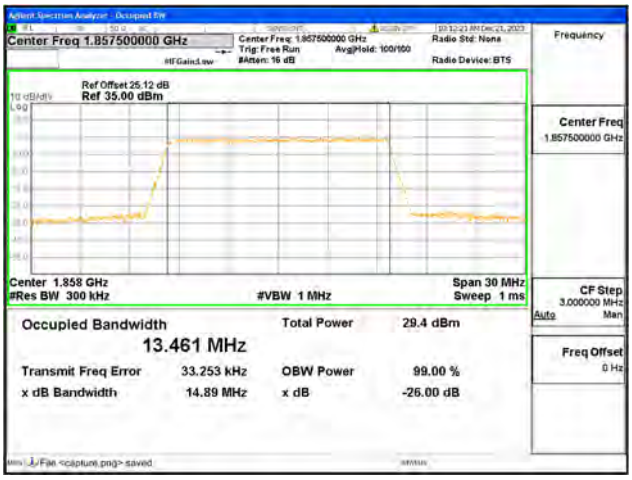
B2 / 10MHz / QPSK/ High CH



B2 / 10MHz / 64QAM/ High CH

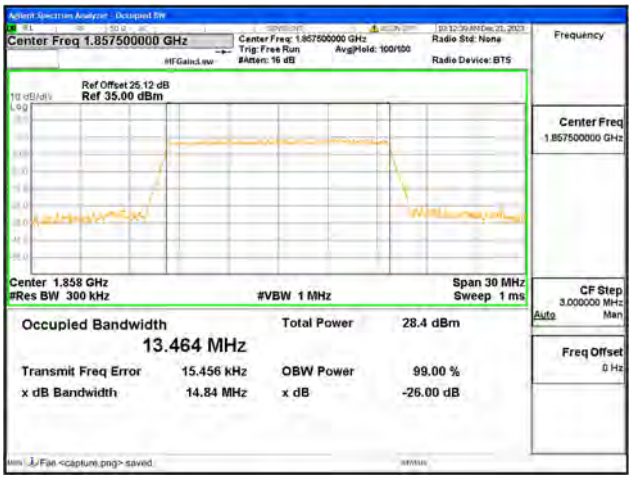


B2 / 10MHz / 16QAM/ High CH

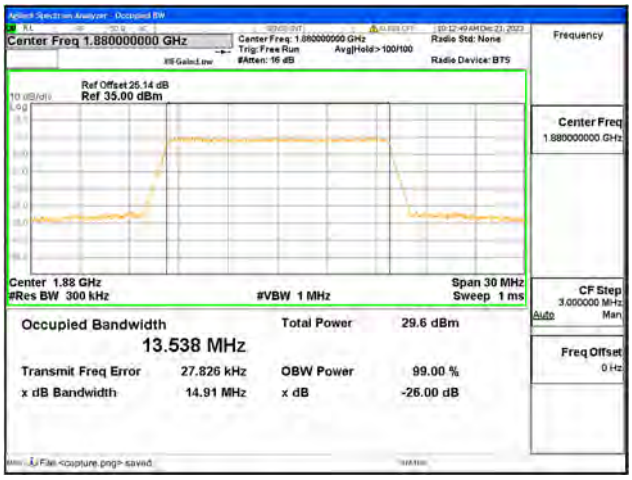


B2 / 15MHz / QPSK/ Low CH

B2 / 15MHz / 64QAM/ Low CH

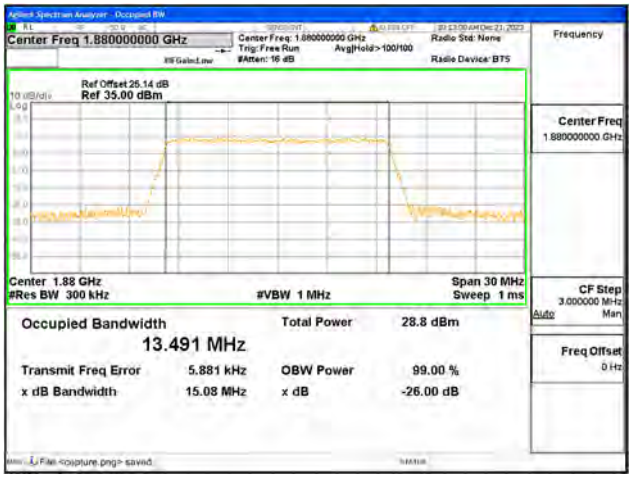


B2 / 15MHz / 16QAM/ Low CH



B2 / 15MHz / QPSK/ Mid CH

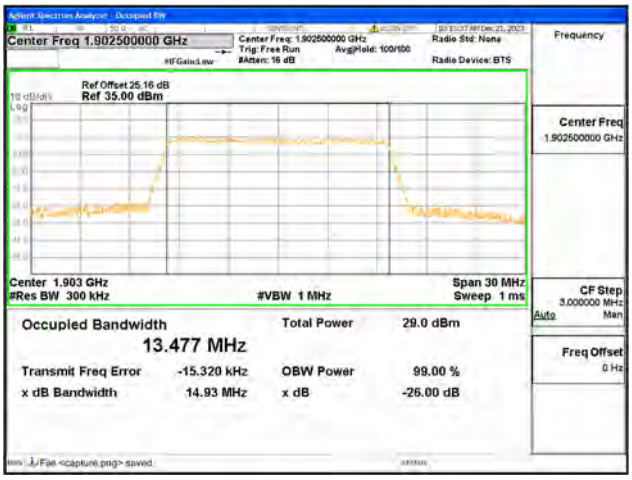
B2 / 15MHz / 64QAM/ Mid CH



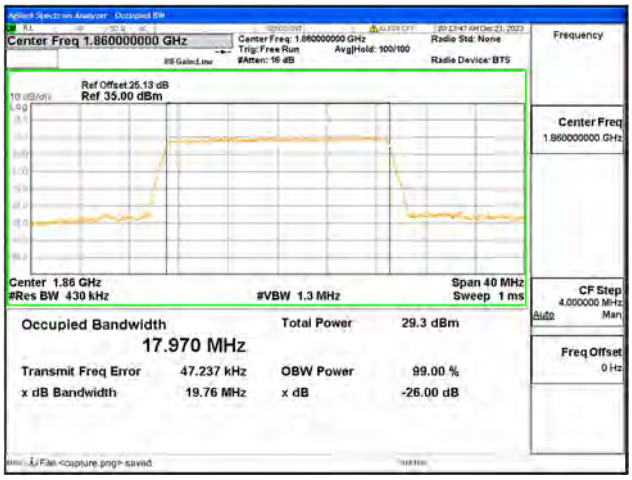
B2 / 15MHz / 16QAM/ Mid CH

B2 / 15MHz / QPSK/ High CH

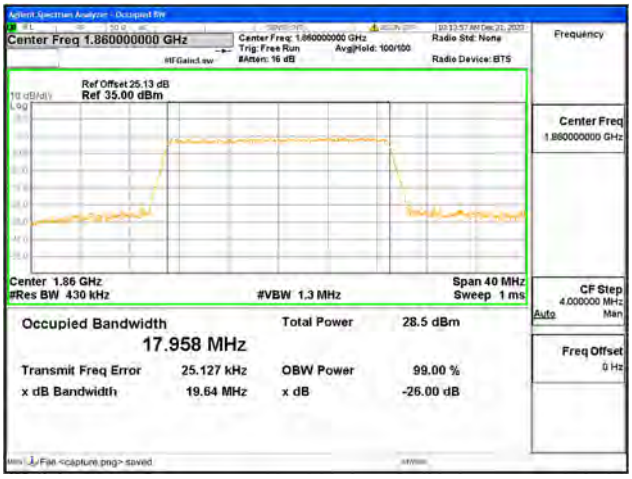
B2 / 15MHz / 64QAM/ High CH



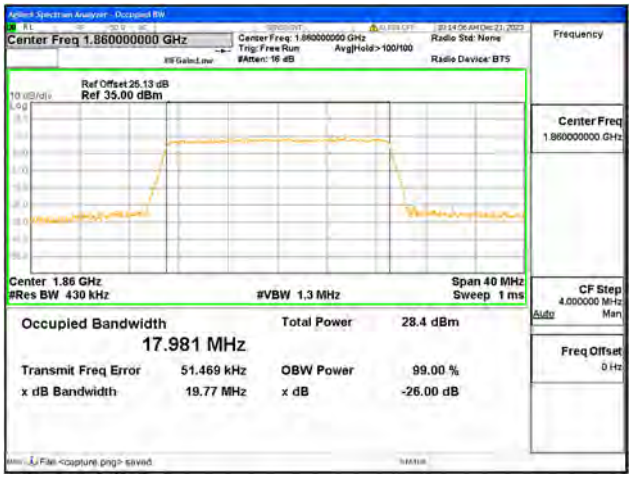
B2 / 15MHz / 16QAM/ High CH



B2 / 20MHz / QPSK/ Low CH

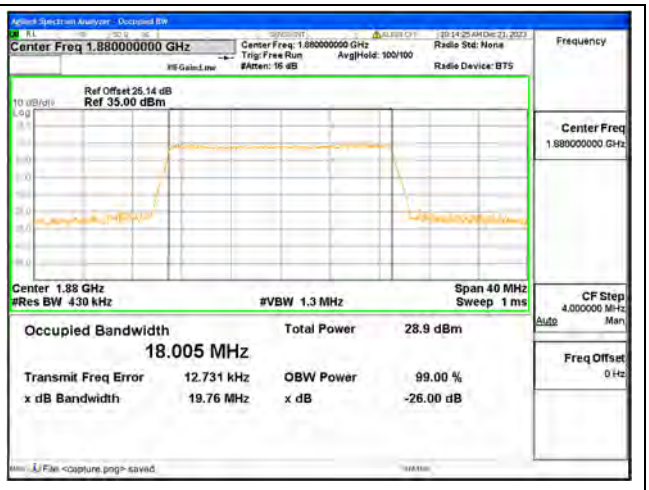


B2 / 20MHz / 64QAM/ Low CH

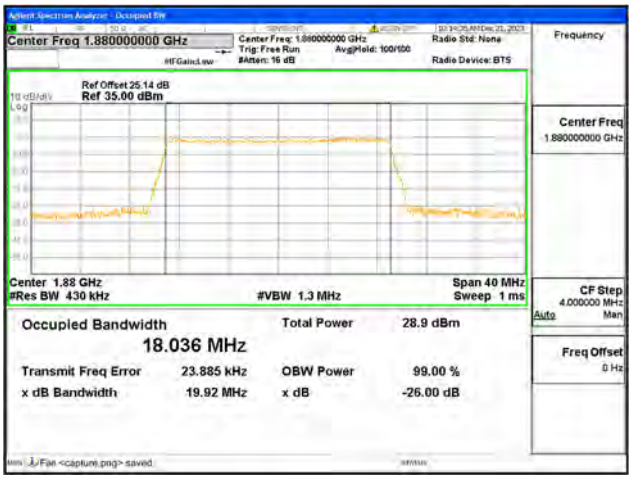


B2 / 20MHz / 16QAM/ Low CH

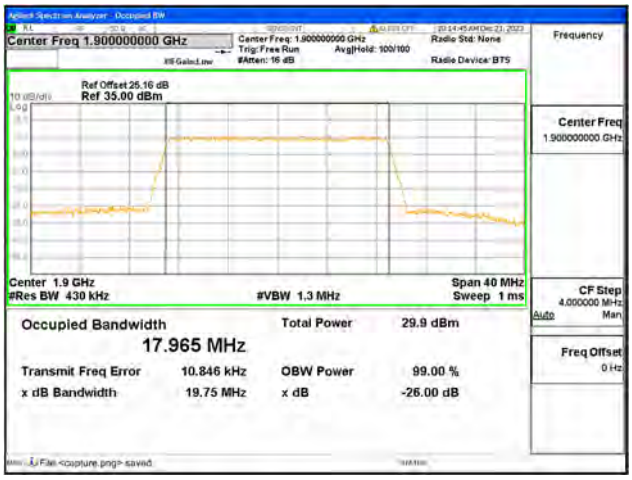
B2 / 20MHz / QPSK/ Mid CH



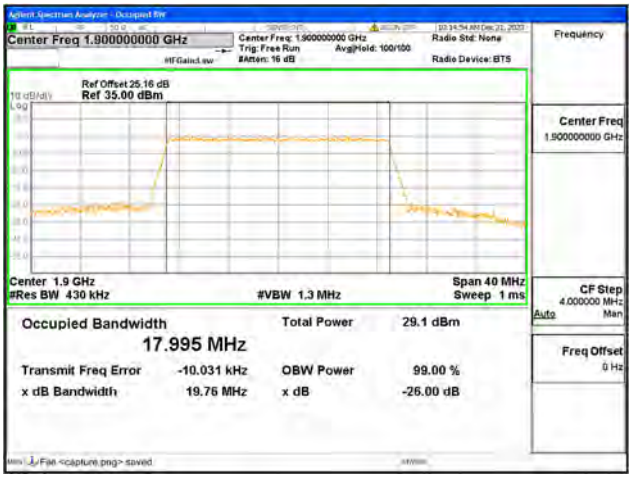
B2 / 20MHz / 64QAM/ Mid CH



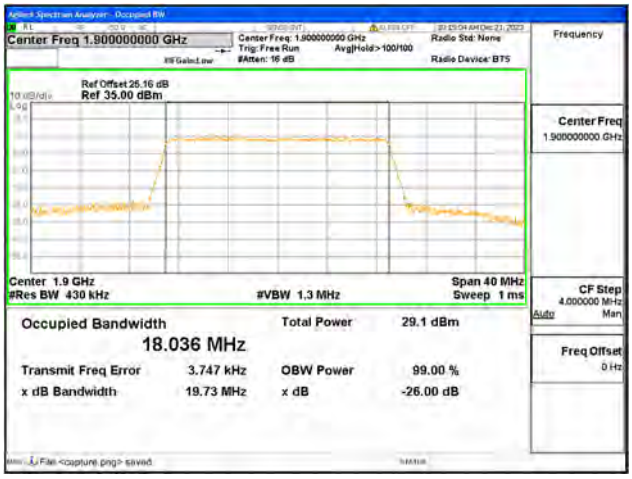
B2 / 20MHz / 16QAM/ Mid CH



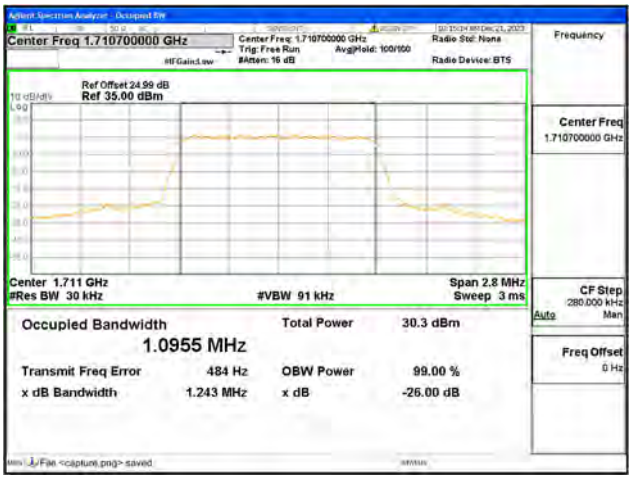
B2 / 20MHz / QPSK/ High CH



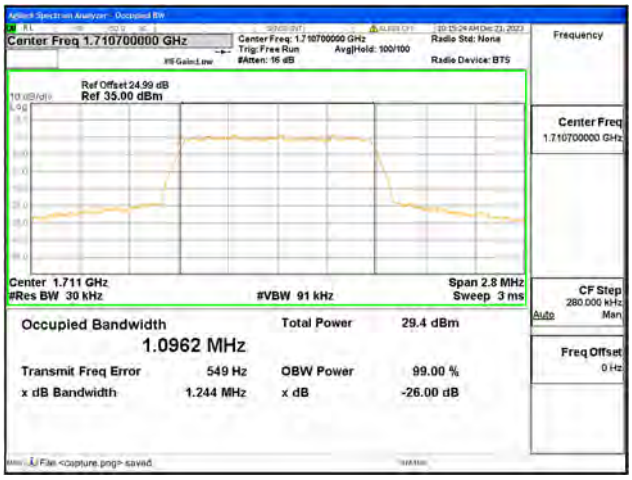
B2 / 20MHz / 64QAM/ High CH



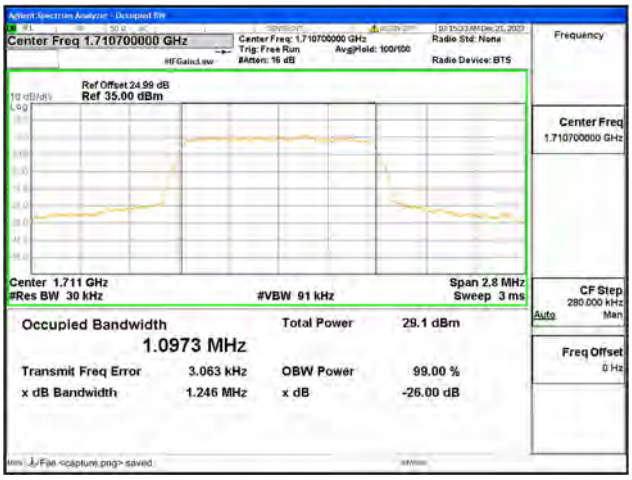
B2 / 20MHz / 16QAM/ High CH



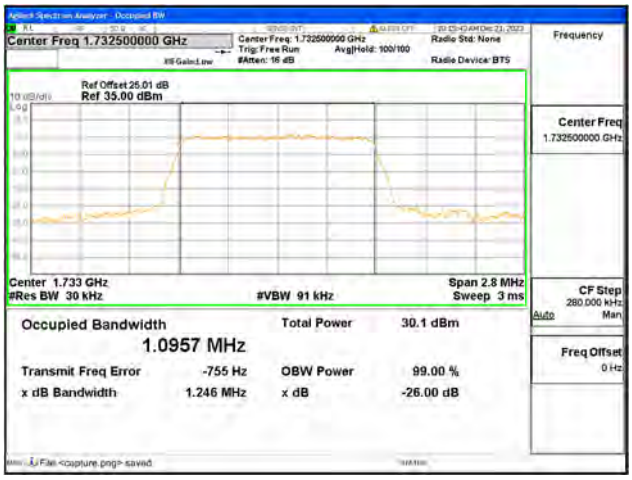
B4 / 1.4MHz / QPSK/ Low CH



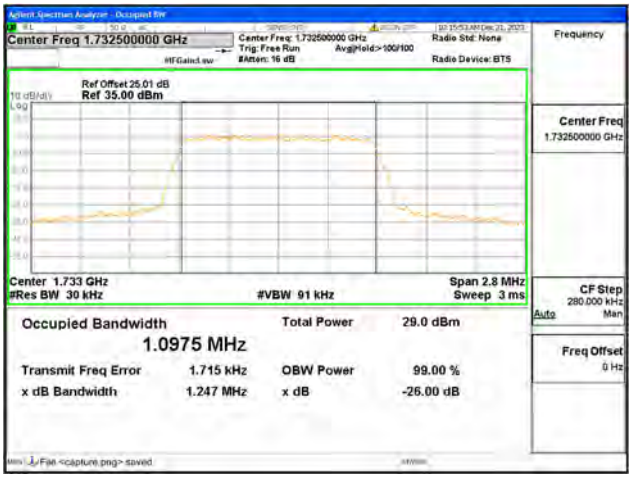
B4 / 1.4MHz / 64QAM/ Low CH



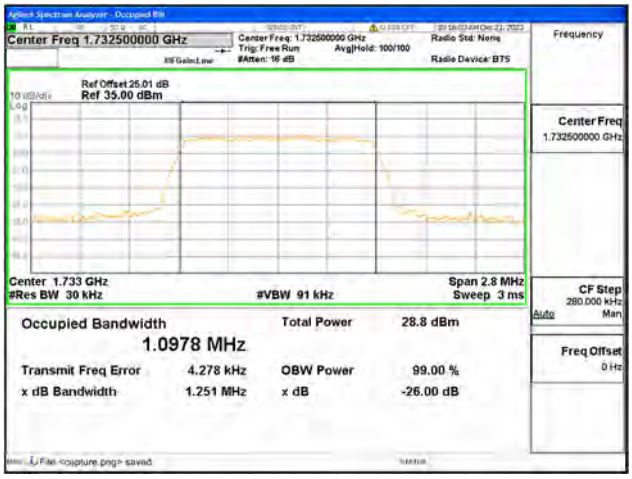
B4 / 1.4MHz / 16QAM/ Low CH



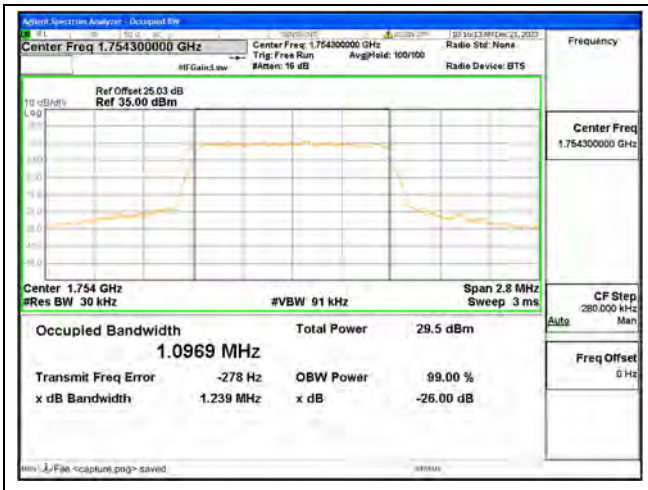
B4 / 1.4MHz / QPSK/ Mid CH



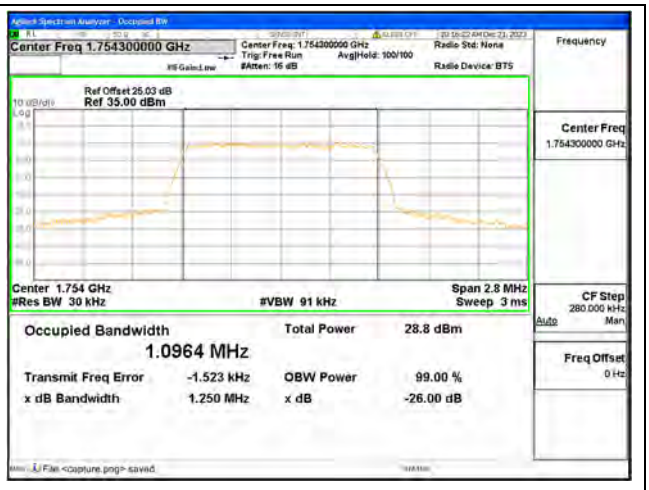
B4 / 1.4MHz / 64QAM/ Mid CH



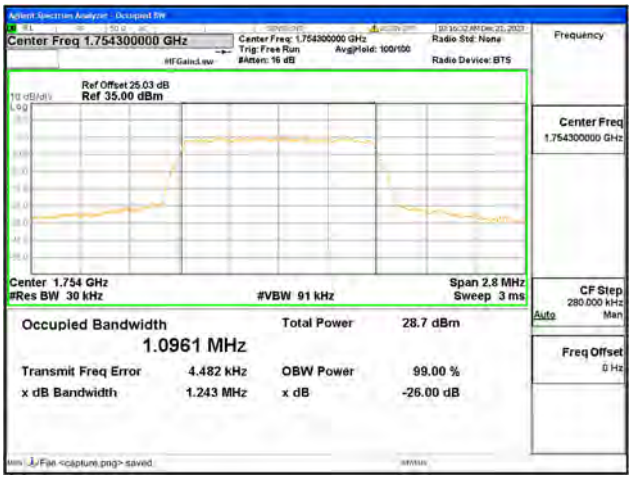
B4 / 1.4MHz / 16QAM/ Mid CH



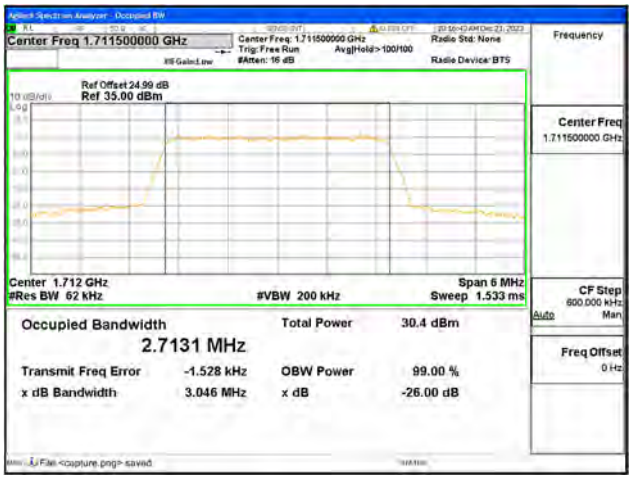
B4 / 1.4MHz / QPSK/ High CH



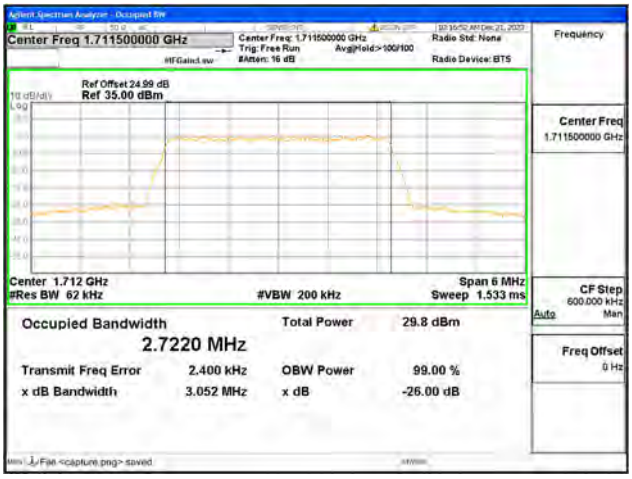
B4 / 1.4MHz / 64QAM/ High CH



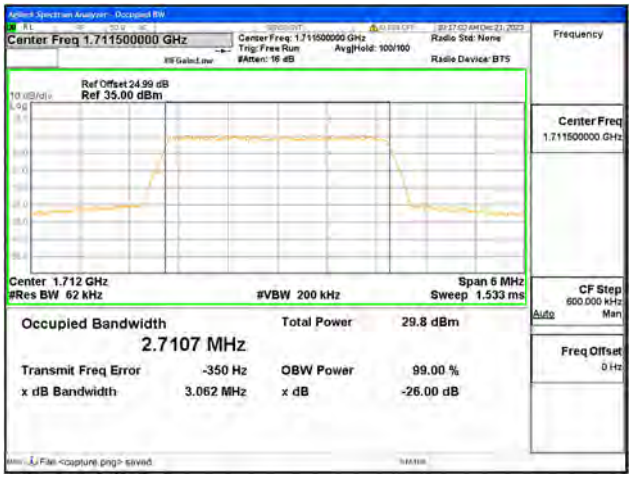
B4 / 1.4MHz / 16QAM/ High CH



B4 / 3MHz / QPSK/ Low CH

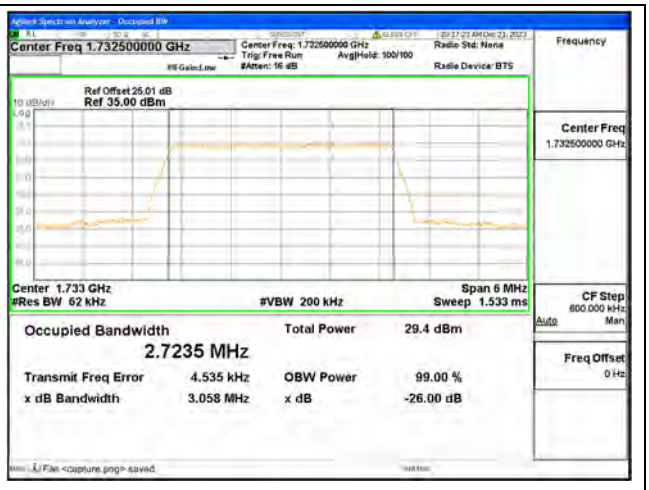


B4 / 3MHz / 64QAM/ Low CH

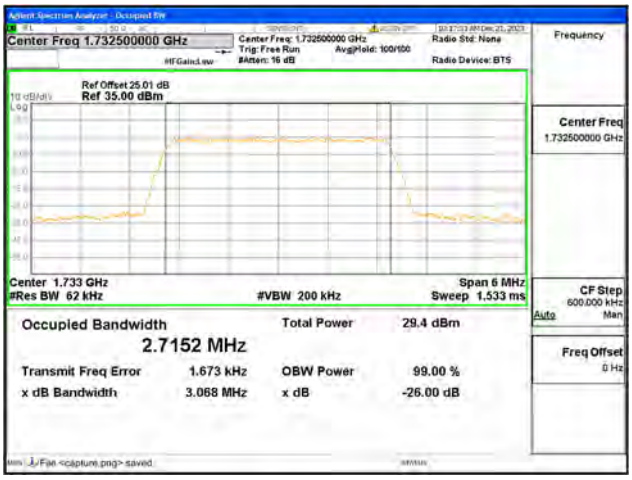


B4 / 3MHz / 16QAM/ Low CH

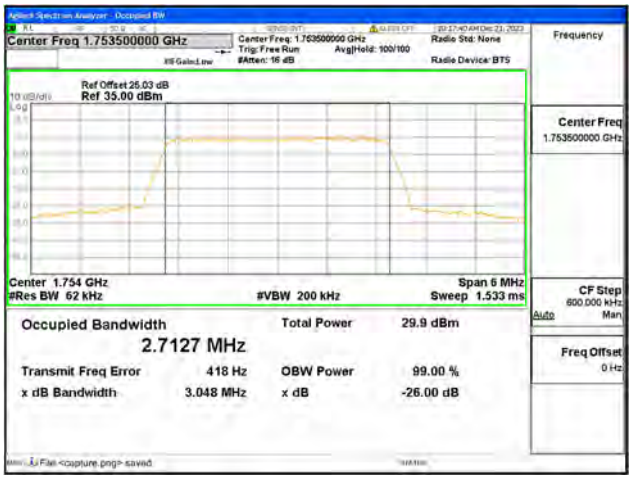
B4 / 3MHz / QPSK/ Mid CH



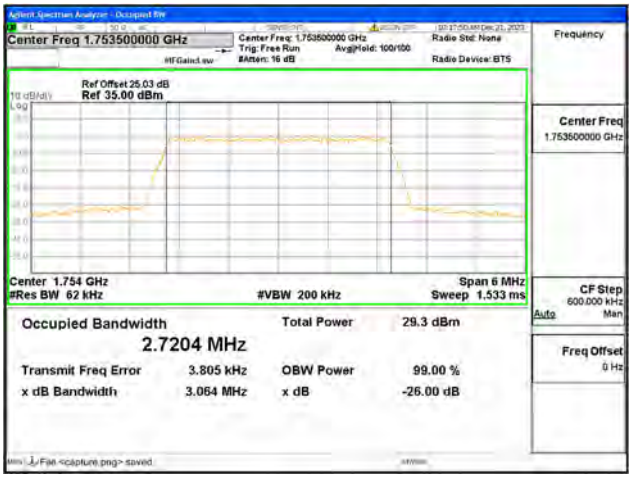
B4 / 3MHz / 64QAM/ Mid CH



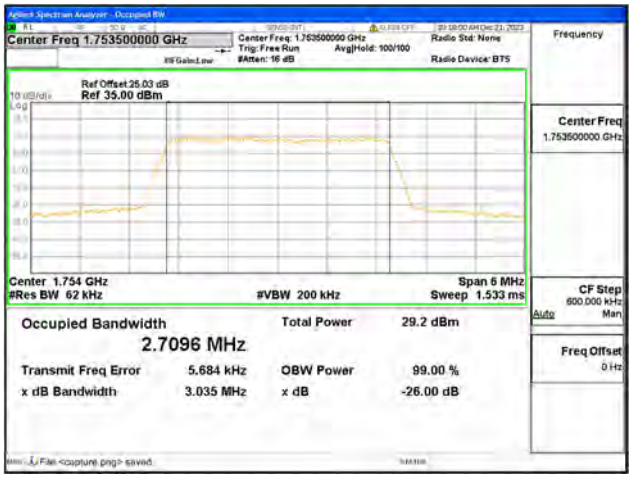
B4 / 3MHz / 16QAM/ Mid CH



B4 / 3MHz / QPSK/ High CH

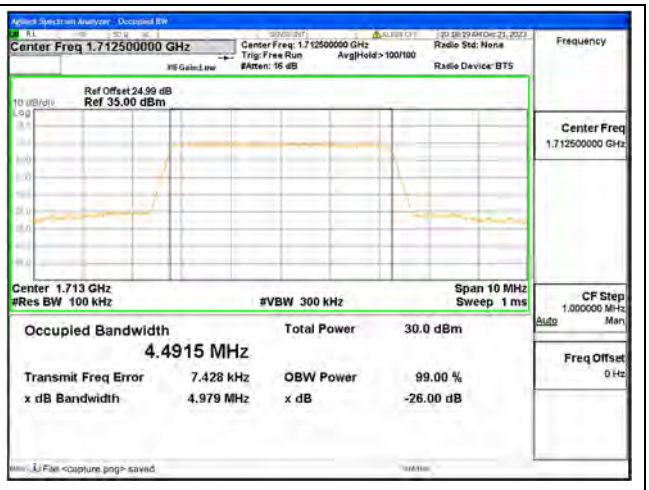


B4 / 3MHz / 64QAM/ High CH

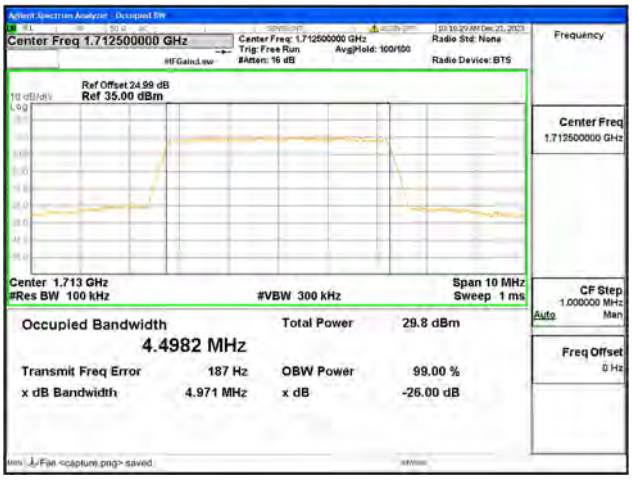


B4 / 3MHz / 16QAM/ High CH

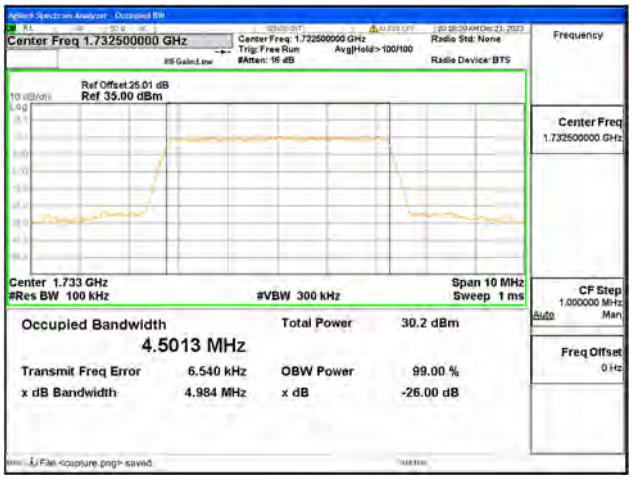
B4 / 5MHz / QPSK/ Low CH



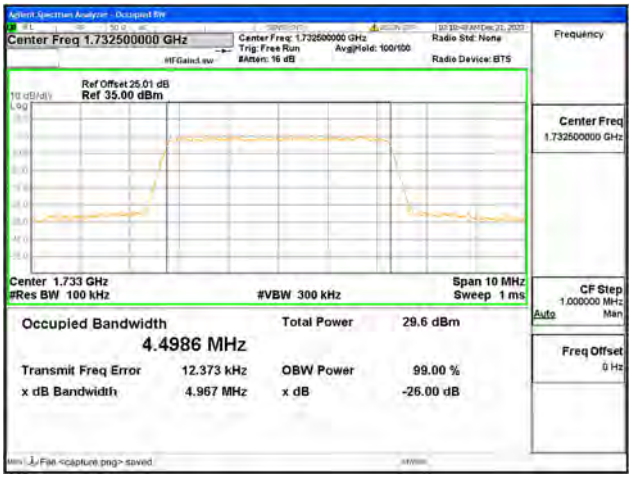
B4 / 5MHz / 64QAM/ Low CH



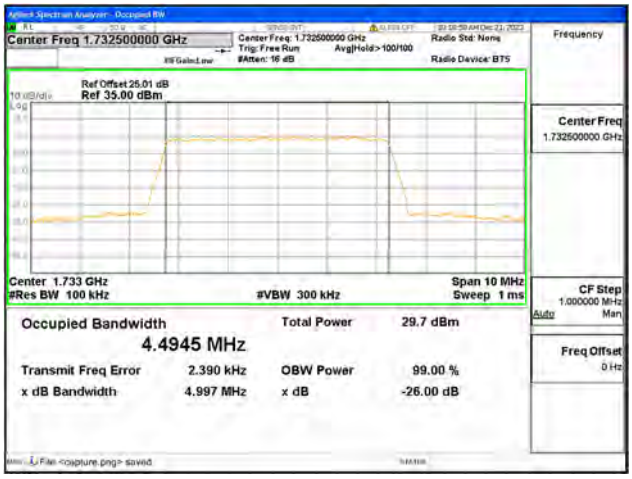
B4 / 5MHz / 16QAM/ Low CH



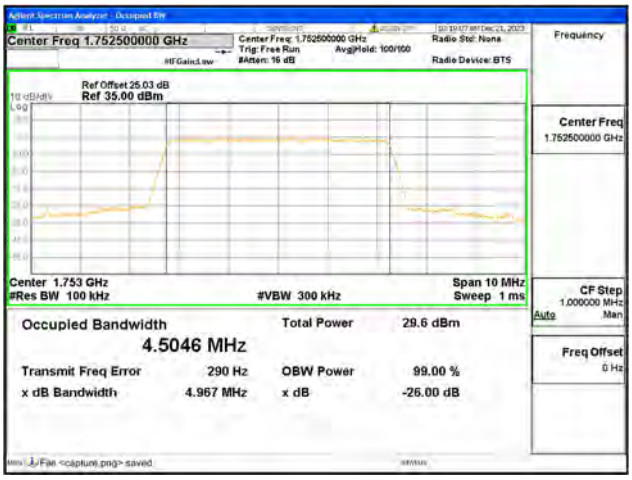
B4 / 5MHz / QPSK/ Mid CH



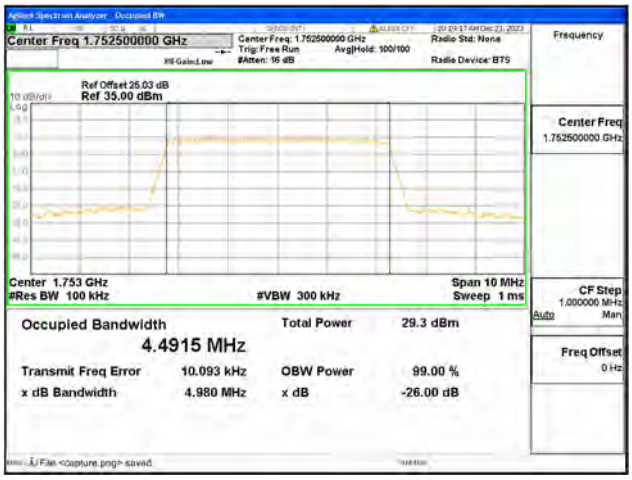
B4 / 5MHz / 64QAM/ Mid CH



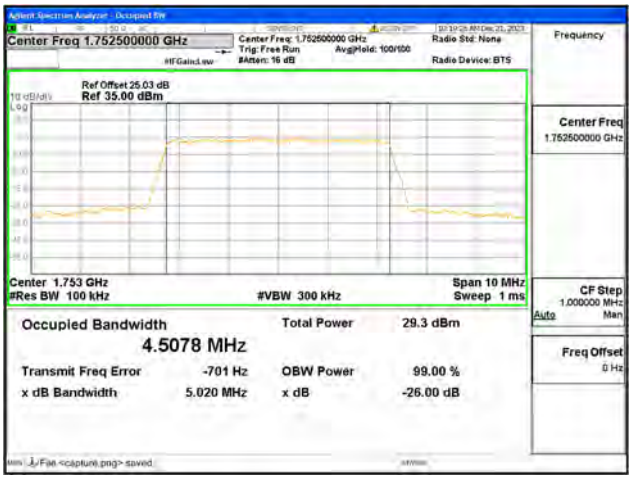
B4 / 5MHz / 16QAM/ Mid CH



B4 / 5MHz / QPSK/ High CH

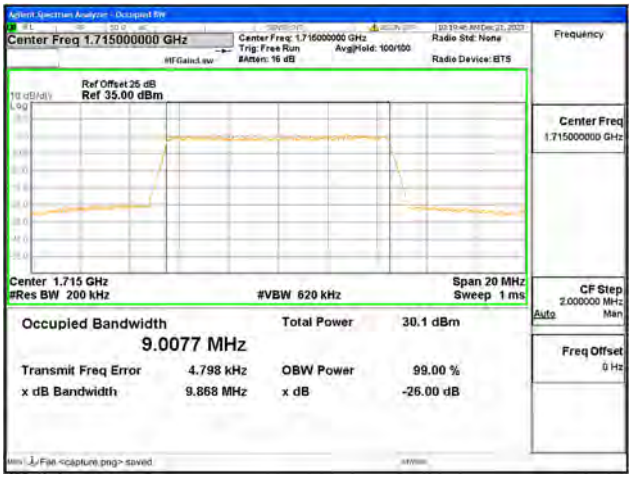


B4 / 5MHz / 64QAM/ High CH

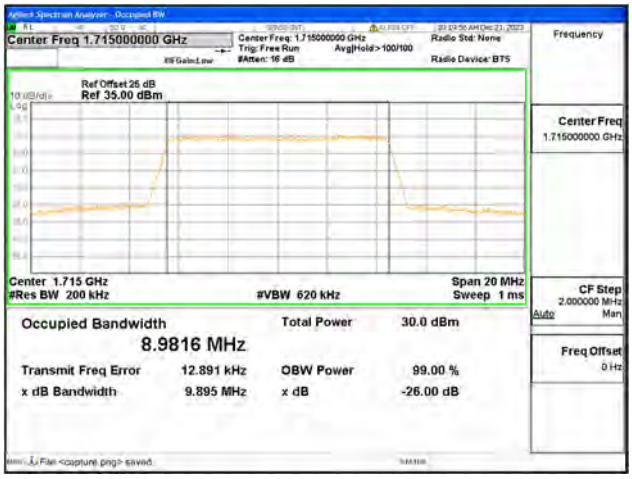


B4 / 5MHz / 16QAM/ High CH

B4 / 10MHz / QPSK/ Low CH



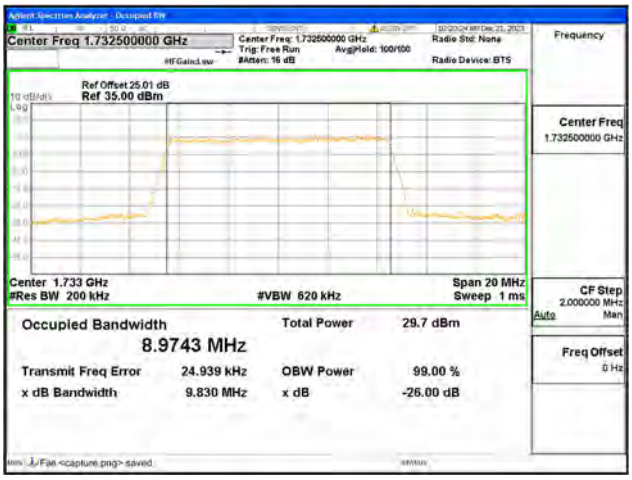
B4 / 10MHz / 64QAM/ Low CH



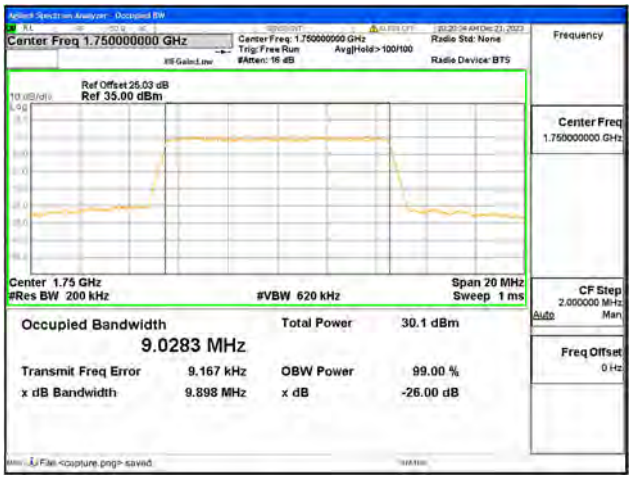
B4 / 10MHz / 16QAM/ Low CH

B4 / 10MHz / QPSK/ Mid CH

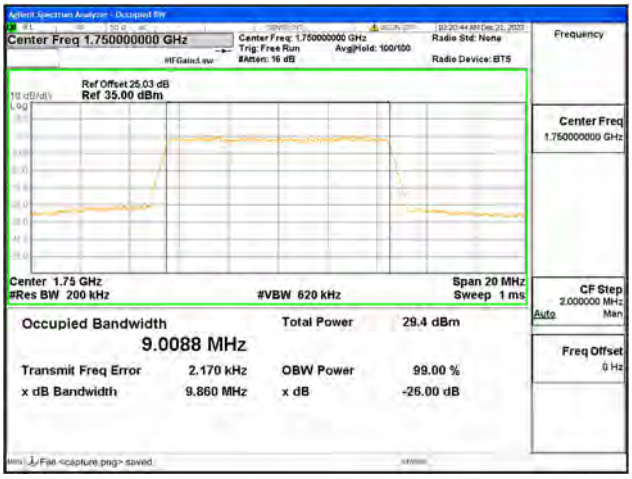
B4 / 10MHz / 64QAM/ Mid CH



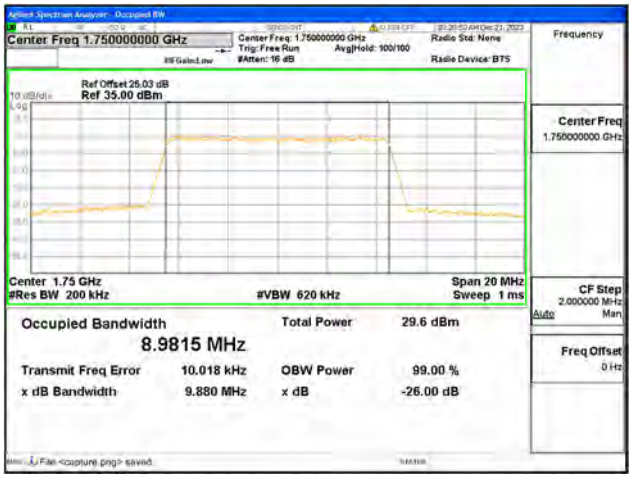
B4 / 10MHz / 16QAM/ Mid CH



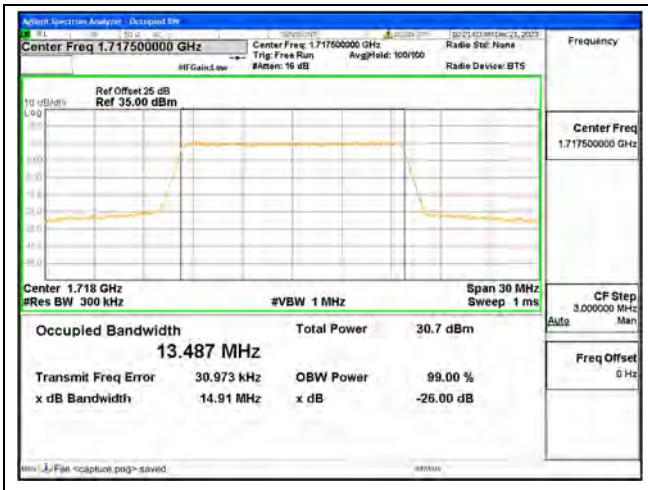
B4 / 10MHz / QPSK/ High CH



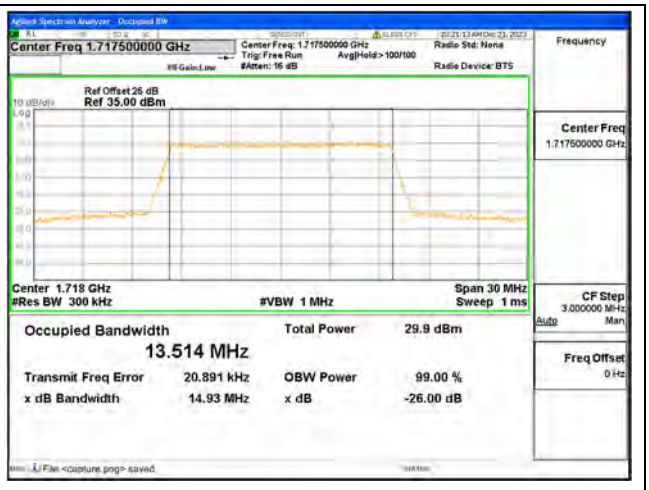
B4 / 10MHz / 64QAM/ High CH



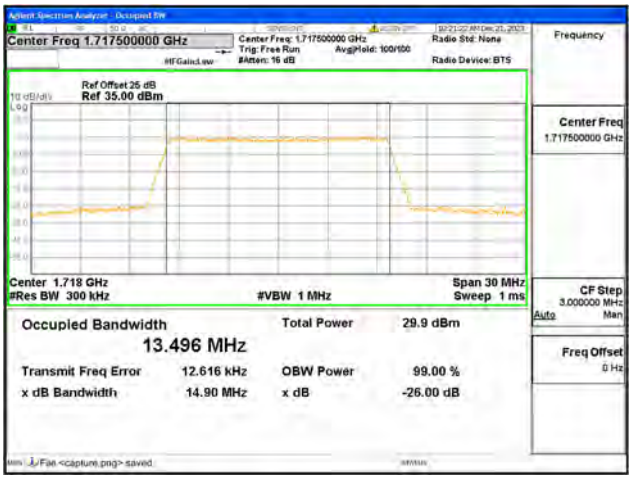
B4 / 10MHz / 16QAM/ High CH



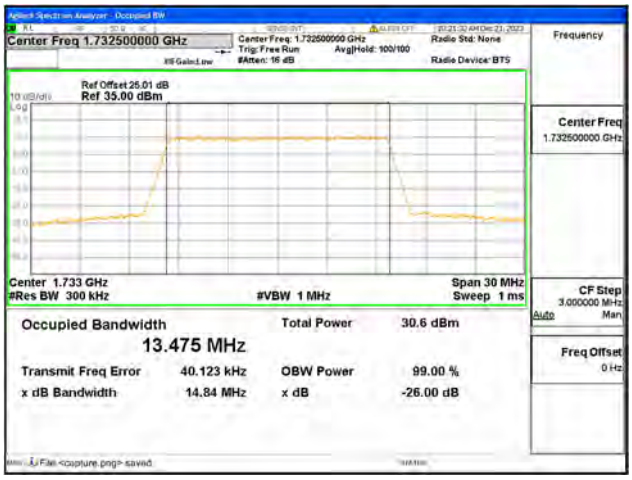
B4 / 15MHz / QPSK/ Low CH



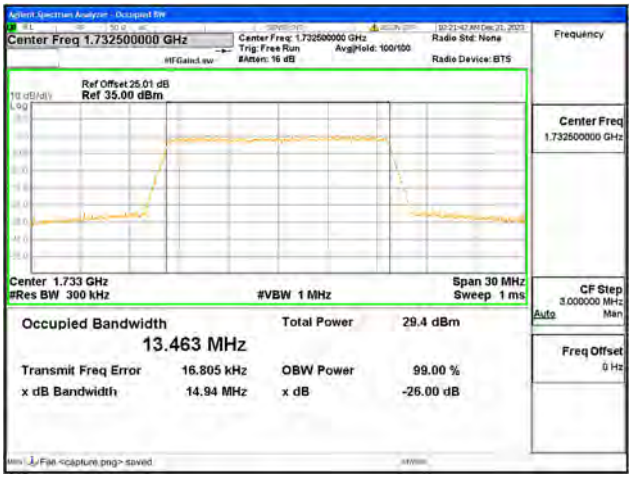
B4 / 15MHz / 64QAM/ Low CH



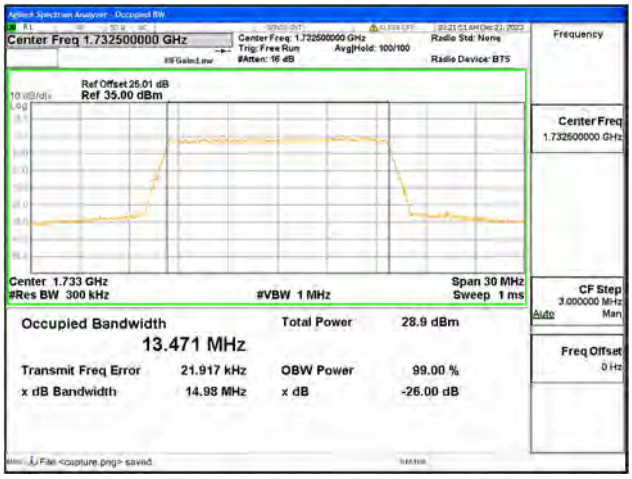
B4 / 15MHz / 16QAM/ Low CH



B4 / 15MHz / QPSK/ Mid CH



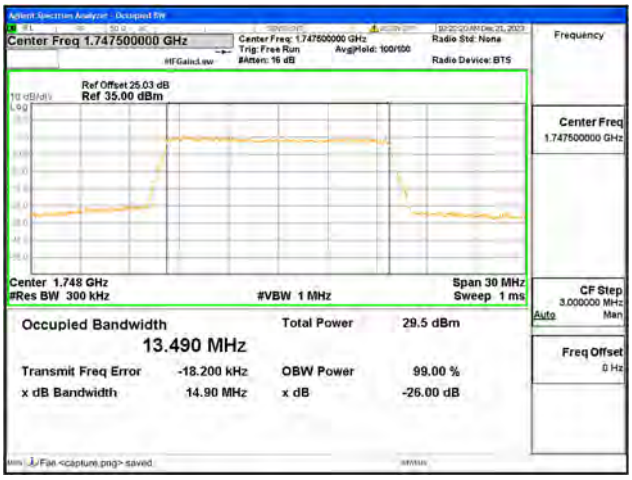
B4 / 15MHz / 64QAM/ Mid CH



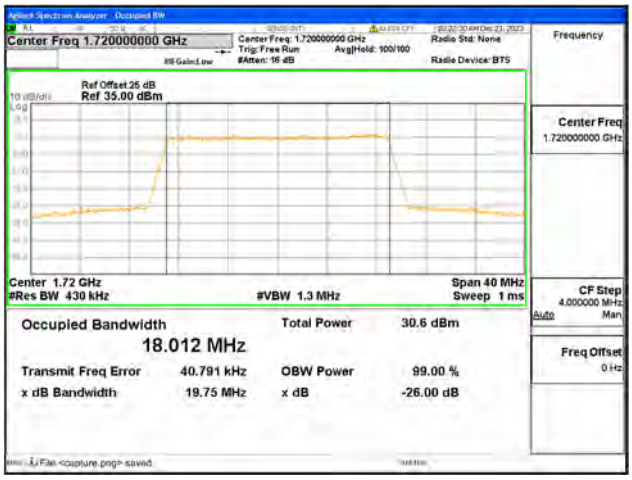
B4 / 15MHz / 16QAM/ Mid CH

B4 / 15MHz / QPSK/ High CH

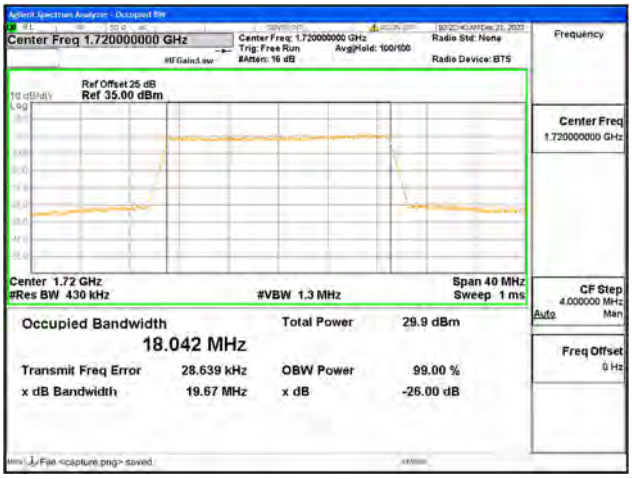
B4 / 15MHz / 64QAM/ High CH



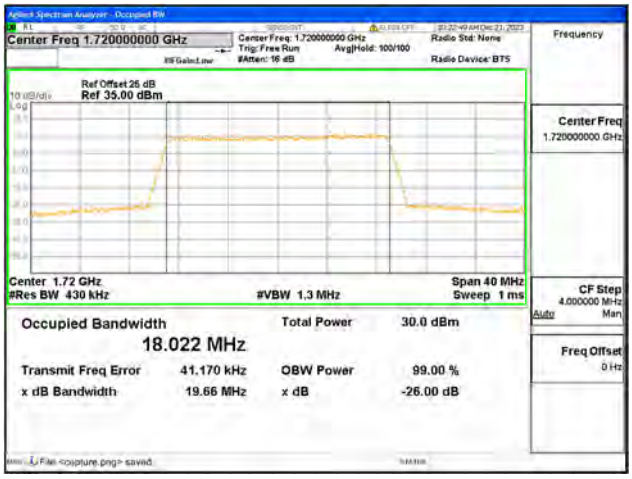
B4 / 15MHz / 16QAM/ High CH



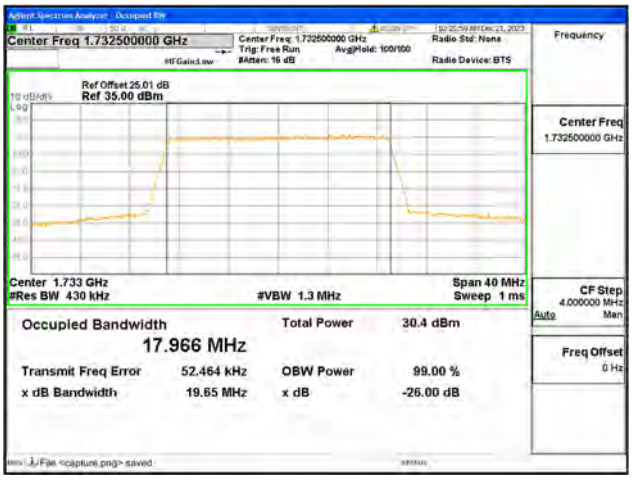
B4 / 20MHz / QPSK/ Low CH



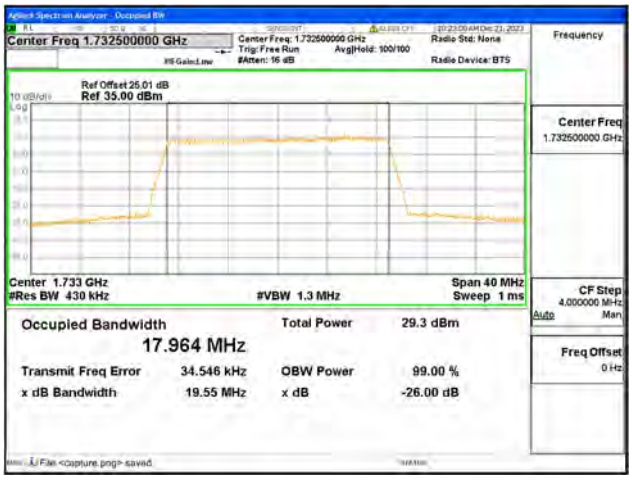
B4 / 20MHz / 64QAM/ Low CH



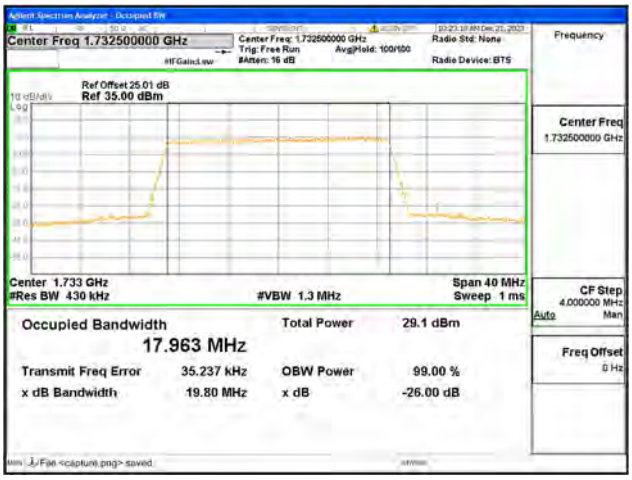
B4 / 20MHz / 16QAM/ Low CH



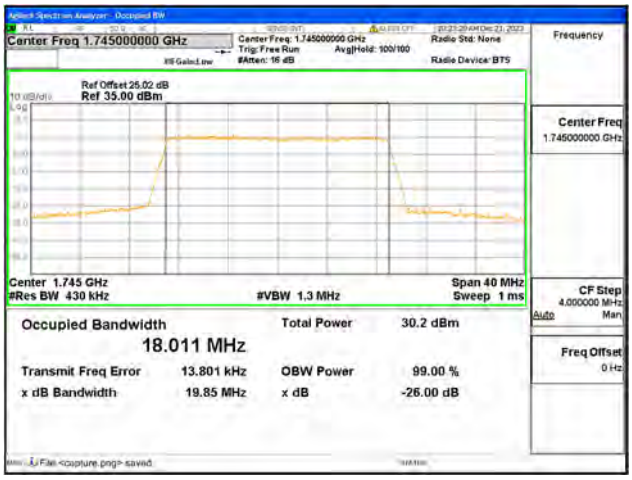
B4 / 20MHz / QPSK/ Mid CH



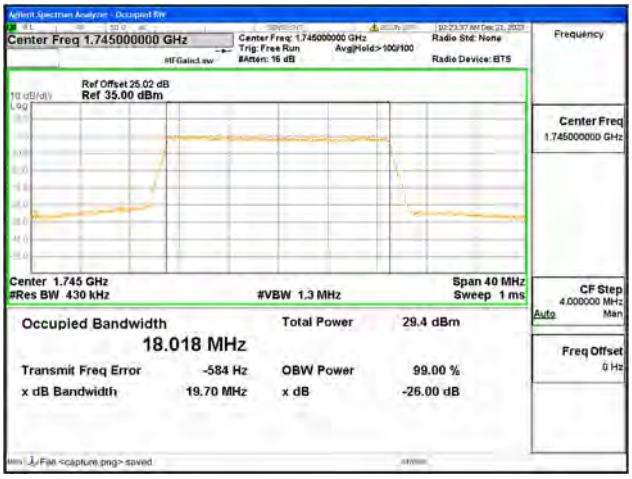
B4 / 20MHz / 64QAM/ Mid CH



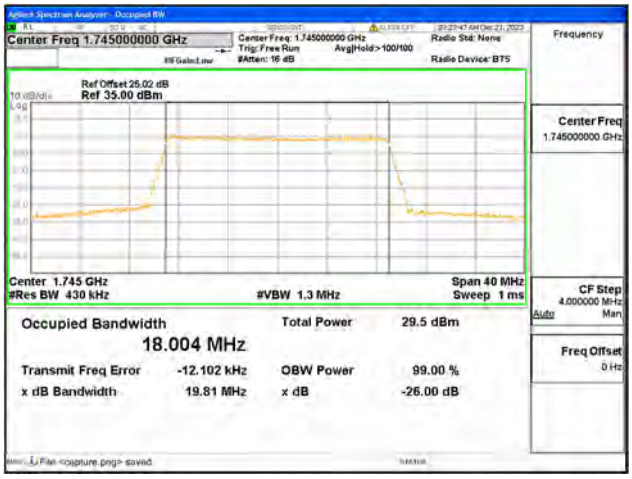
B4 / 20MHz / 16QAM/ Mid CH



B4 / 20MHz / QPSK/ High CH



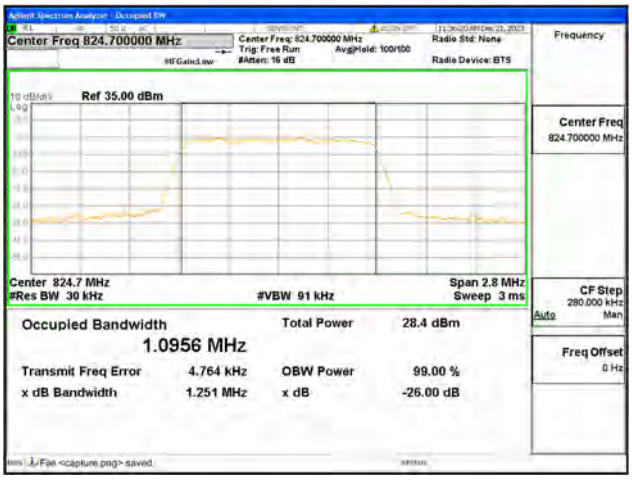
B4 / 20MHz / 64QAM/ High CH



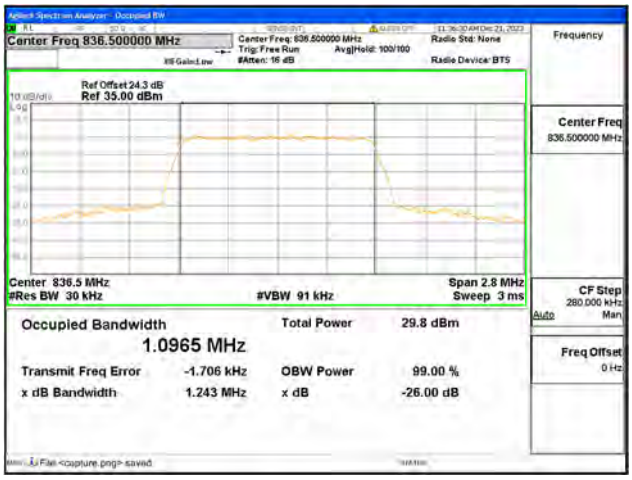
B4 / 20MHz / 16QAM/ High CH

B5 / 1.4MHz / QPSK/ Low CH

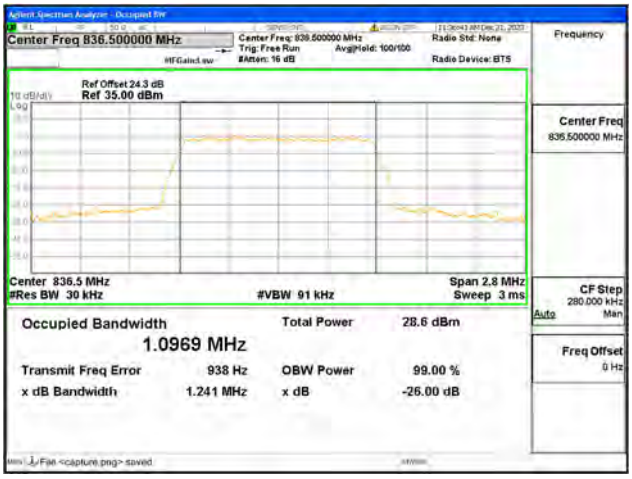
B5 / 1.4MHz / 64QAM/ Low CH



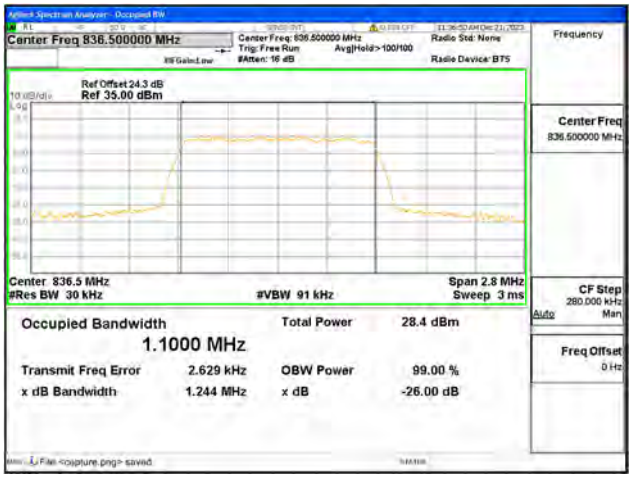
B5 / 1.4MHz / 16QAM/ Low CH



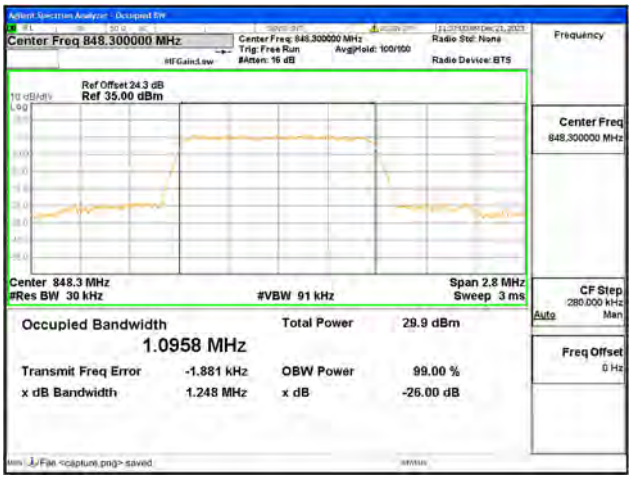
B5 / 1.4MHz / QPSK/ Mid CH



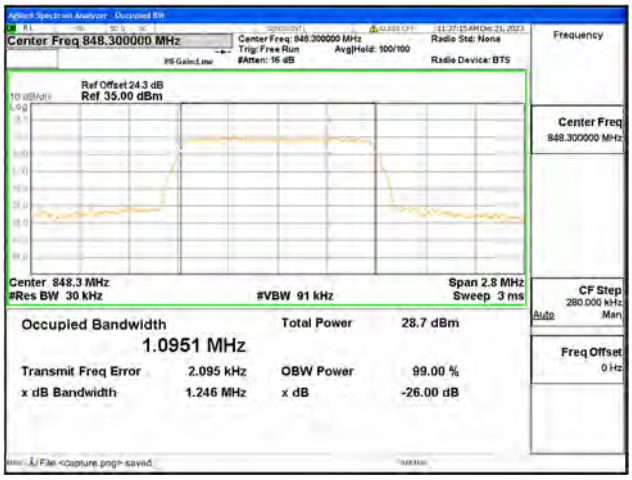
B5 / 1.4MHz / 64QAM/ Mid CH



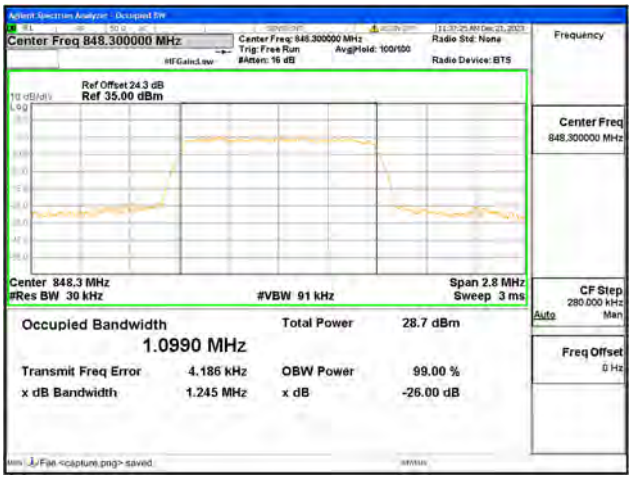
B5 / 1.4MHz / 16QAM/ Mid CH



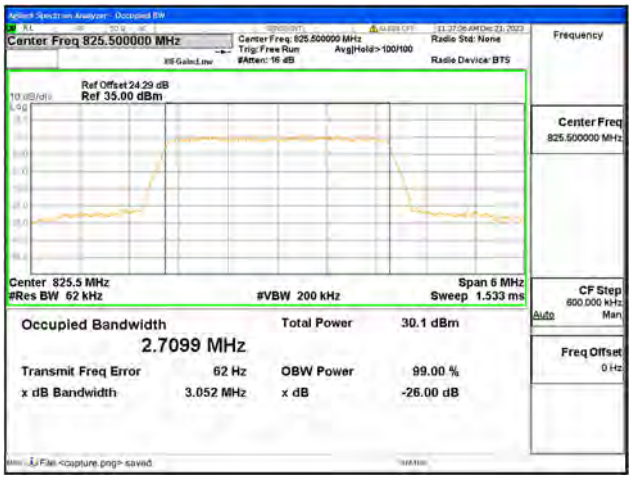
B5 / 1.4MHz / QPSK/ High CH



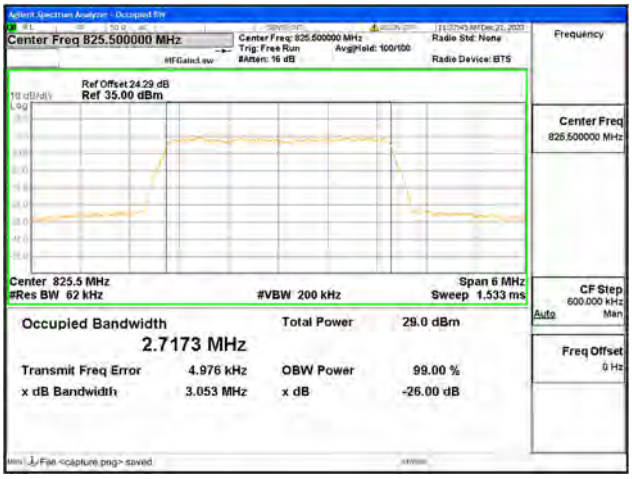
B5 / 1.4MHz / 64QAM/ High CH



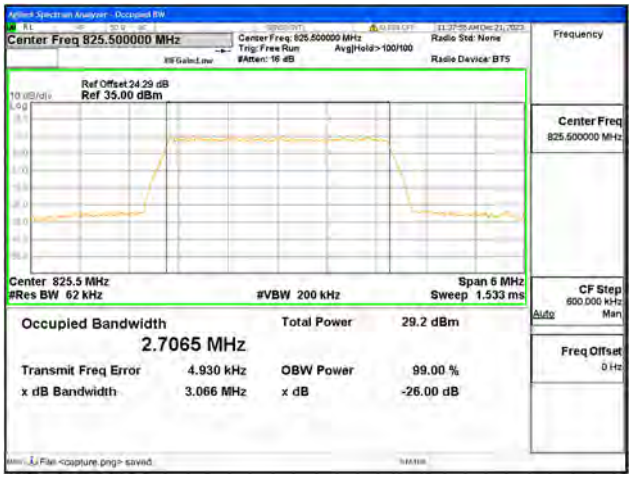
B5 / 1.4MHz / 16QAM/ High CH



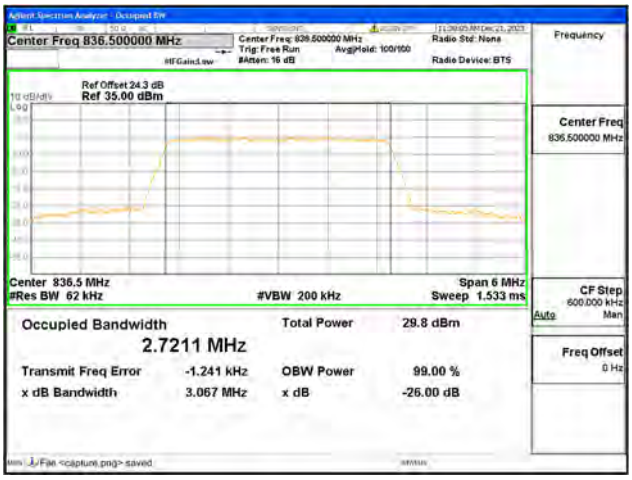
B5 / 3MHz / QPSK/ Low CH



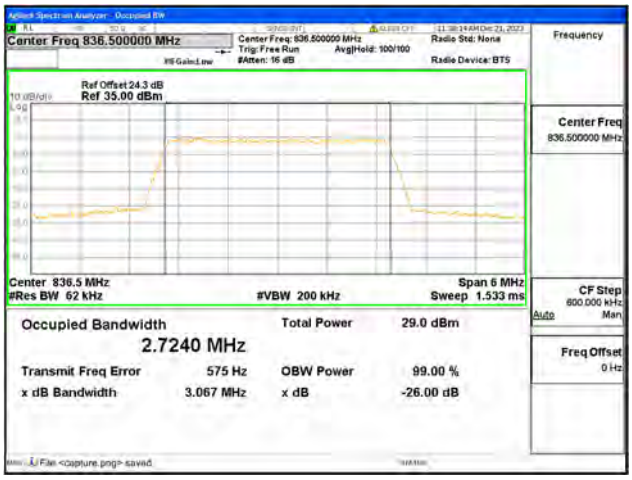
B5 / 3MHz / 64QAM/ Low CH



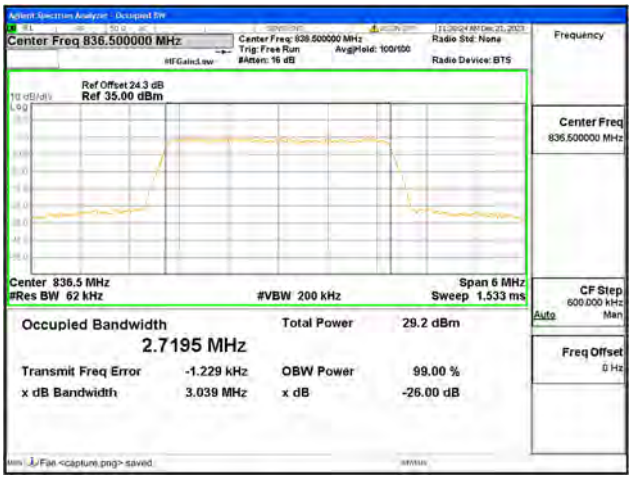
B5 / 3MHz / 16QAM/ Low CH



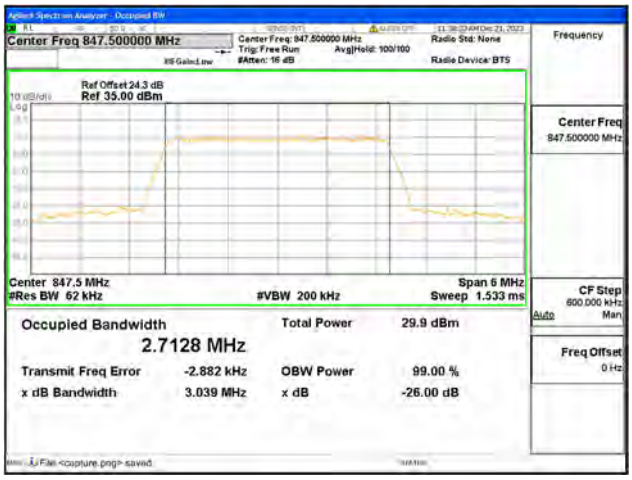
B5 / 3MHz / QPSK/ Mid CH



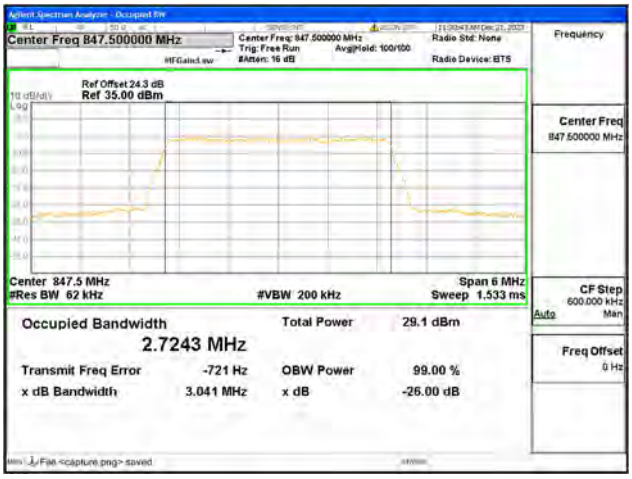
B5 / 3MHz / 64QAM/ Mid CH



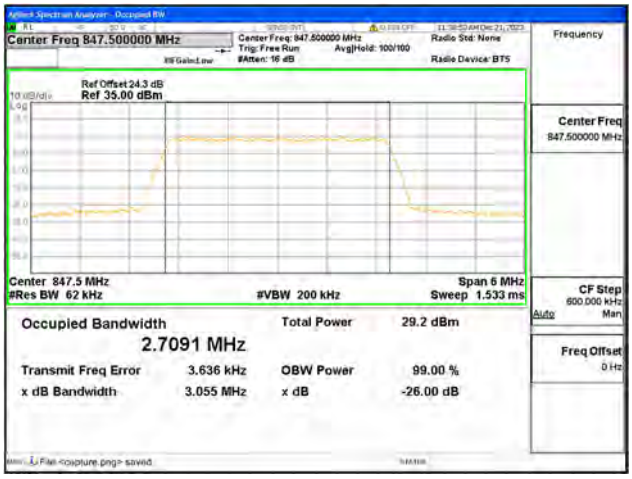
B5 / 3MHz / 16QAM/ Mid CH



B5 / 3MHz / QPSK/ High CH

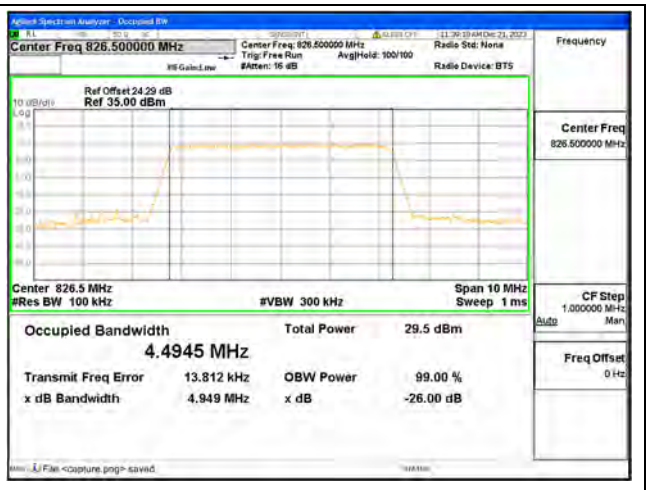


B5 / 3MHz / 64QAM/ High CH

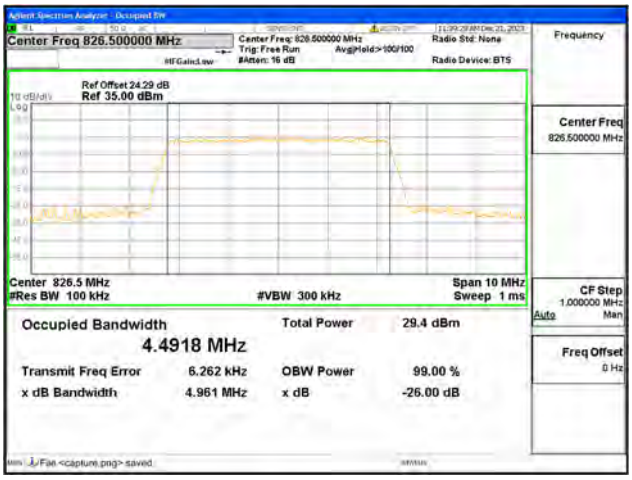


B5 / 3MHz / 16QAM/ High CH

B5 / 5MHz / QPSK/ Low CH

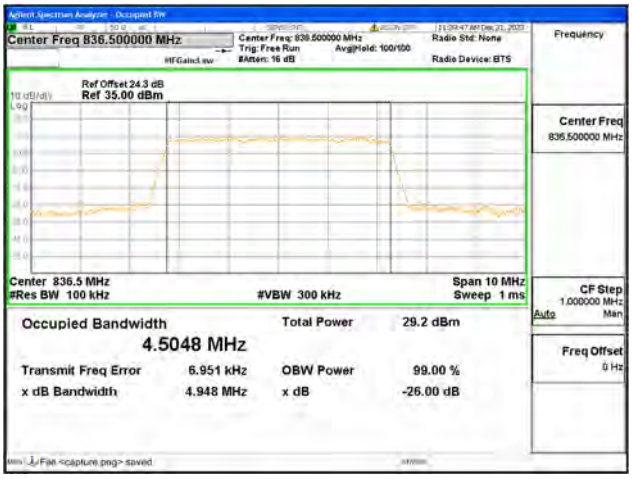


B5 / 5MHz / 64QAM/ Low CH

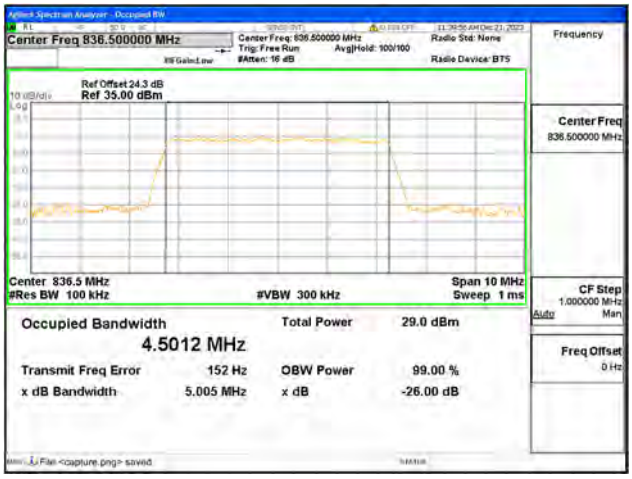


B5 / 5MHz / 16QAM/ Low CH

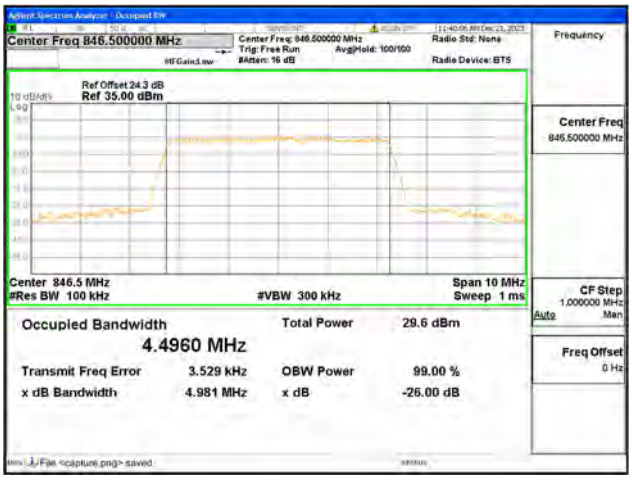
B5 / 5MHz / QPSK/ Mid CH



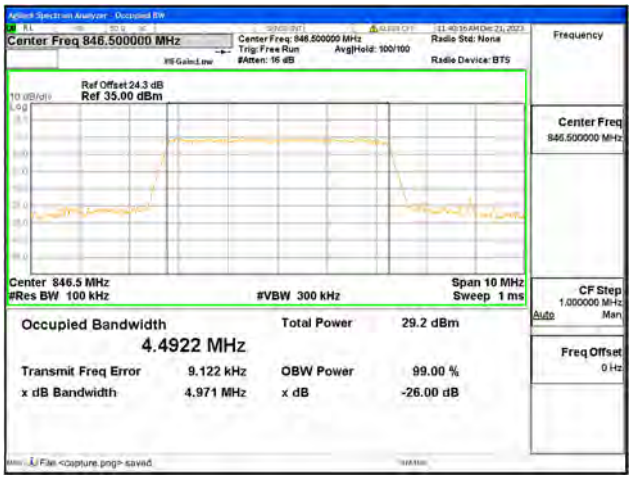
B5 / 5MHz / 64QAM/ Mid CH



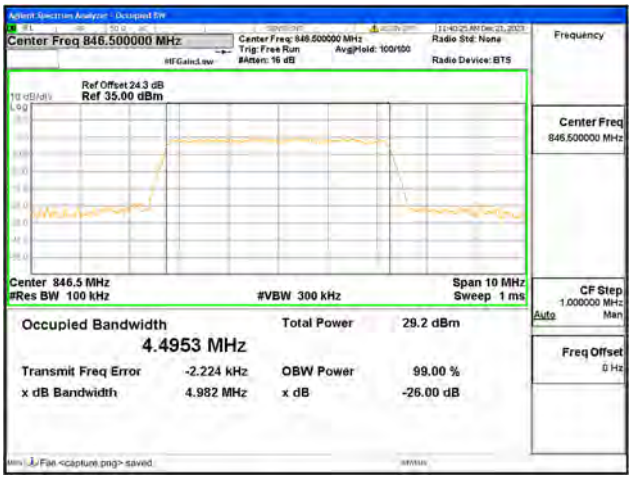
B5 / 5MHz / 16QAM/ Mid CH



B5 / 5MHz / QPSK/ High CH

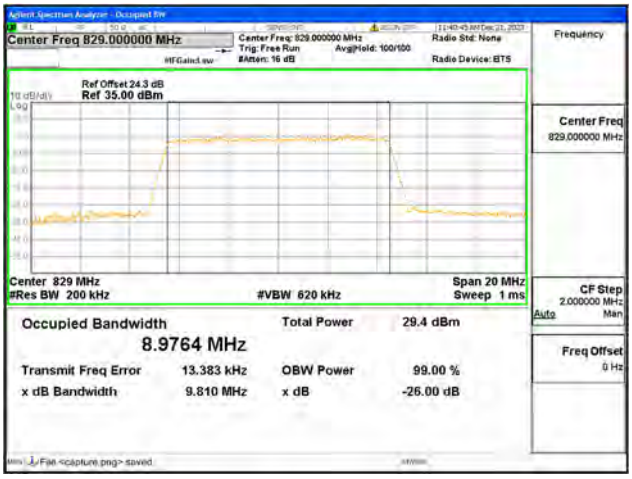


B5 / 5MHz / 64QAM/ High CH

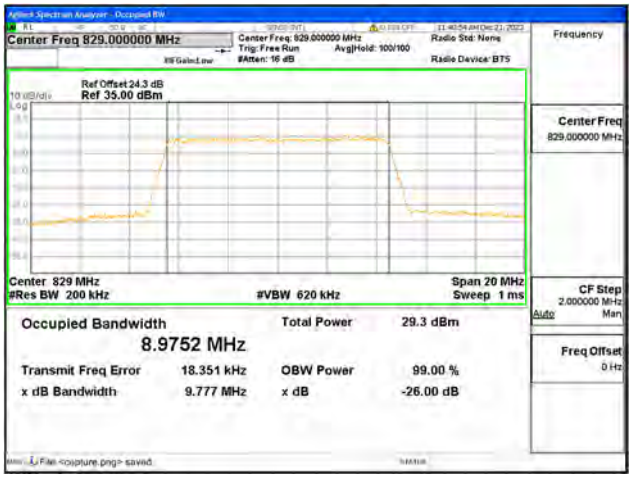


B5 / 5MHz / 16QAM/ High CH

B5 / 10MHz / QPSK/ Low CH

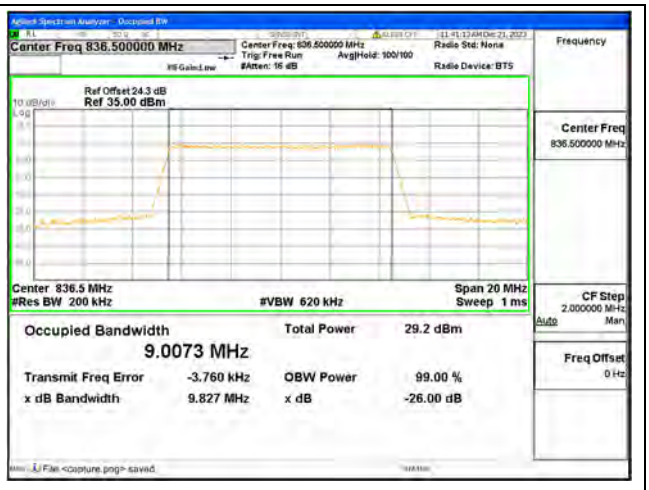


B5 / 10MHz / 64QAM/ Low CH

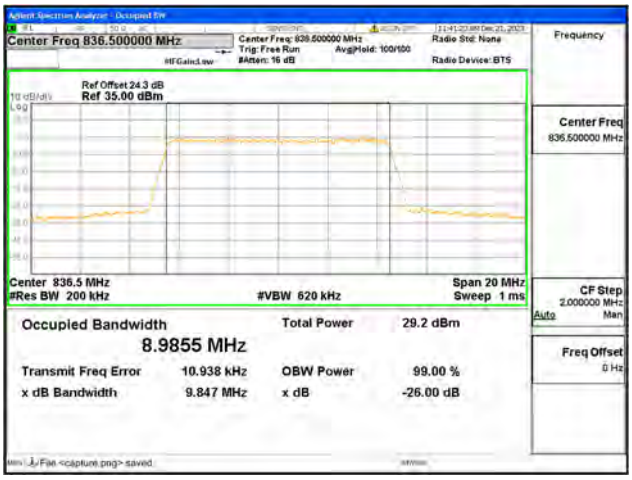


B5 / 10MHz / 16QAM/ Low CH

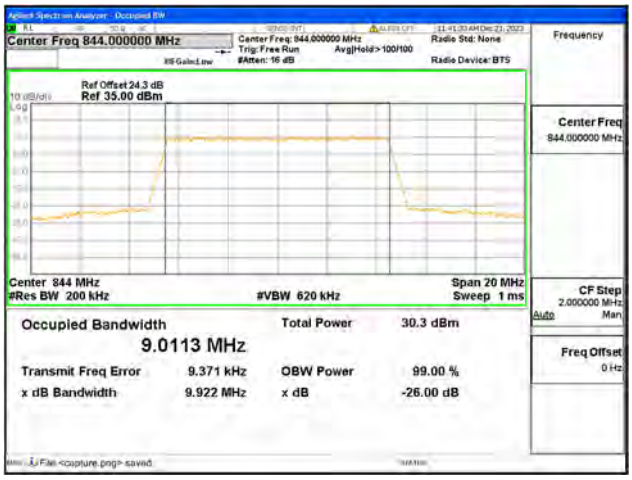
B5 / 10MHz / QPSK/ Mid CH



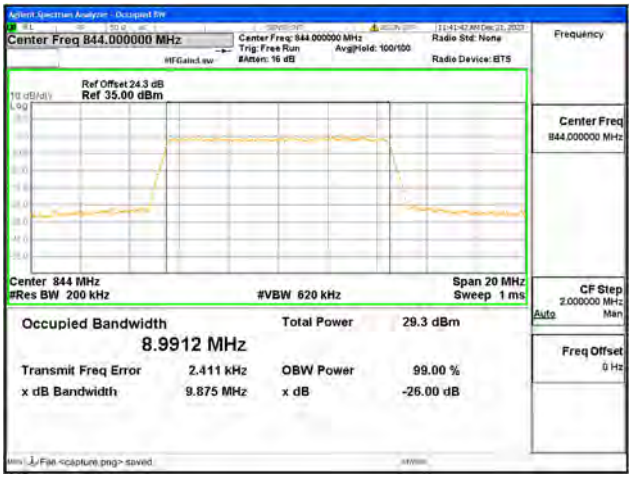
B5 / 10MHz / 64QAM/ Mid CH



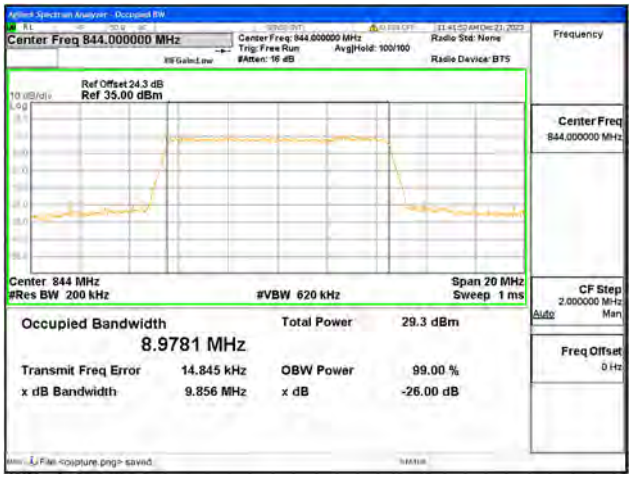
B5 / 10MHz / 16QAM/ Mid CH



B5 / 10MHz / QPSK/ High CH



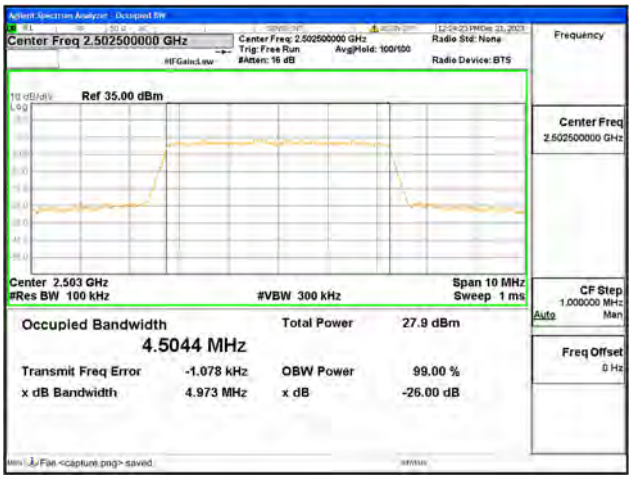
B5 / 10MHz / 64QAM/ High CH



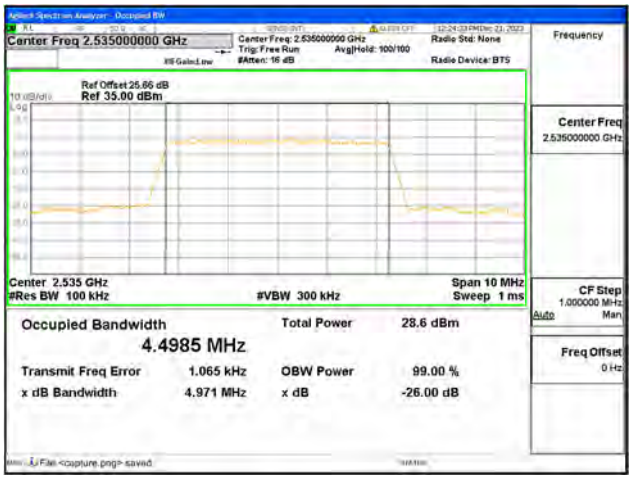
B5 / 10MHz / 16QAM/ High CH

B7 / 5MHz / QPSK/ Low CH

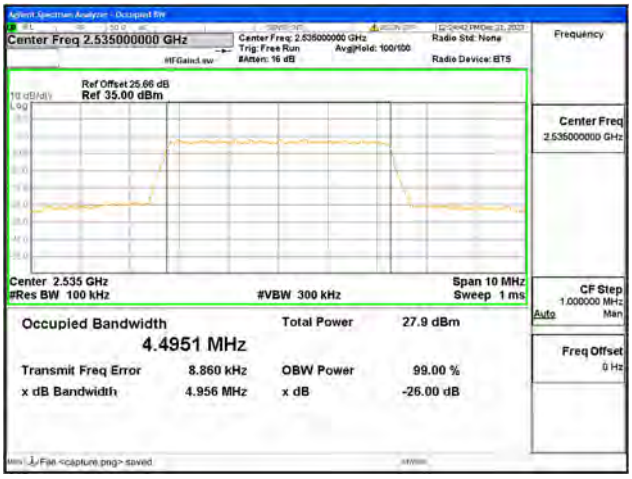
B7 / 5MHz / 64QAM/ Low CH



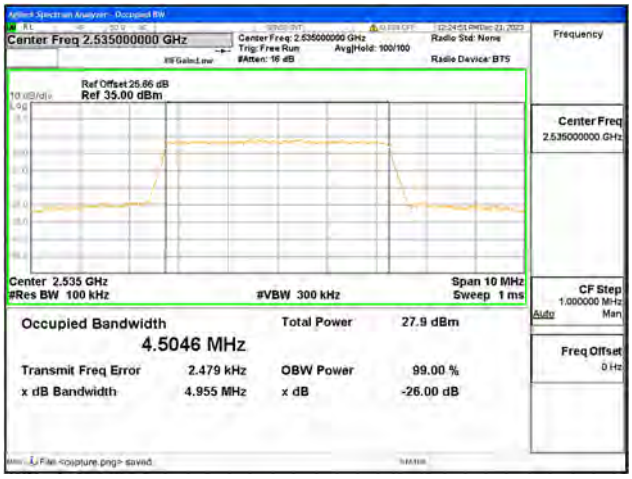
B7 / 5MHz / 16QAM/ Low CH



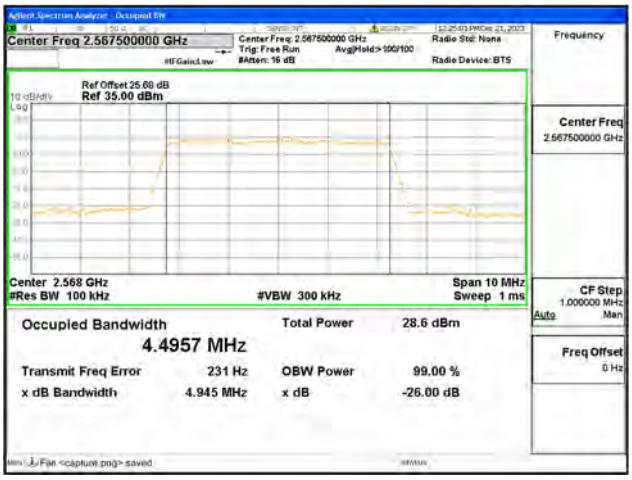
B7 / 5MHz / QPSK/ Mid CH



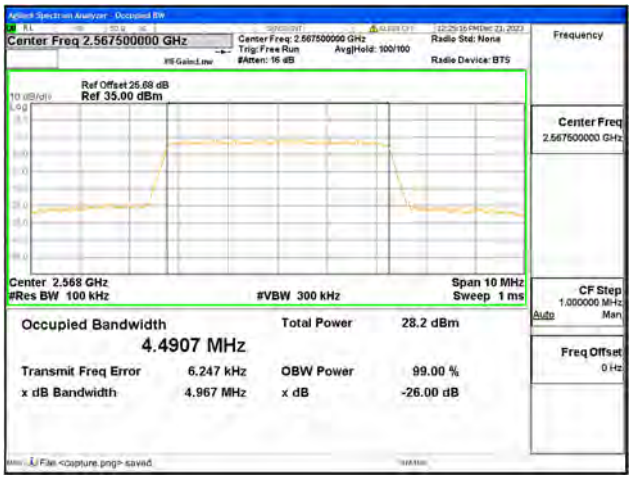
B7 / 5MHz / 64QAM/ Mid CH



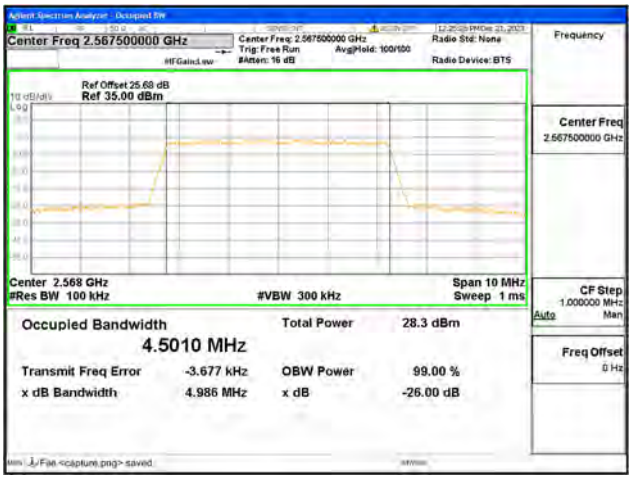
B7 / 5MHz / 16QAM/ Mid CH



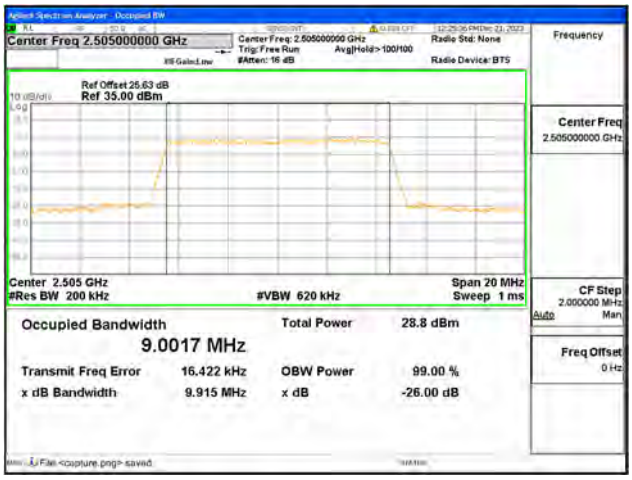
B7 / 5MHz / QPSK/ High CH



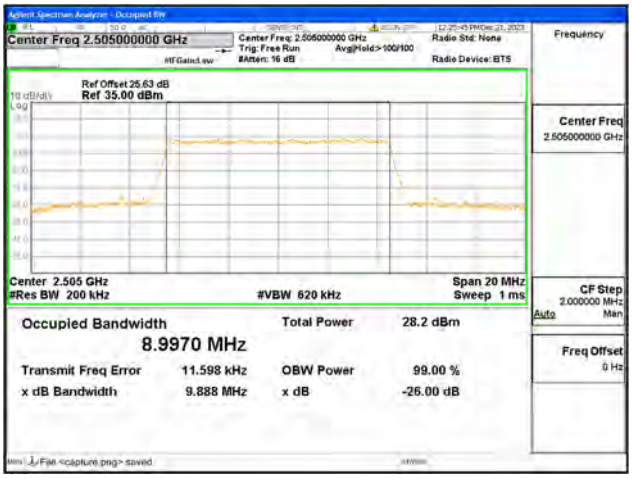
B7 / 5MHz / 64QAM/ High CH



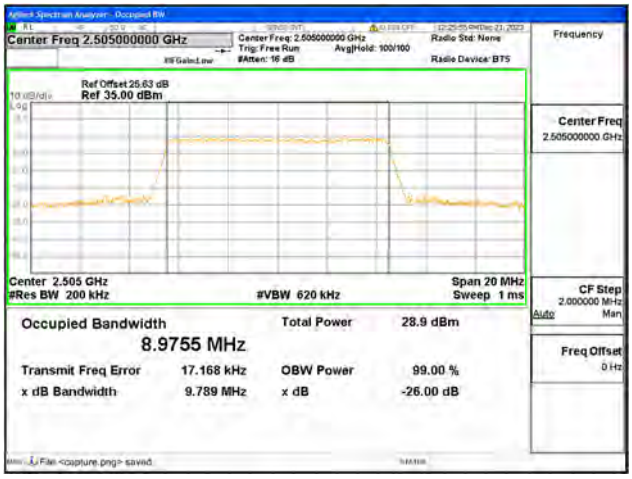
B7 / 5MHz / 16QAM/ High CH



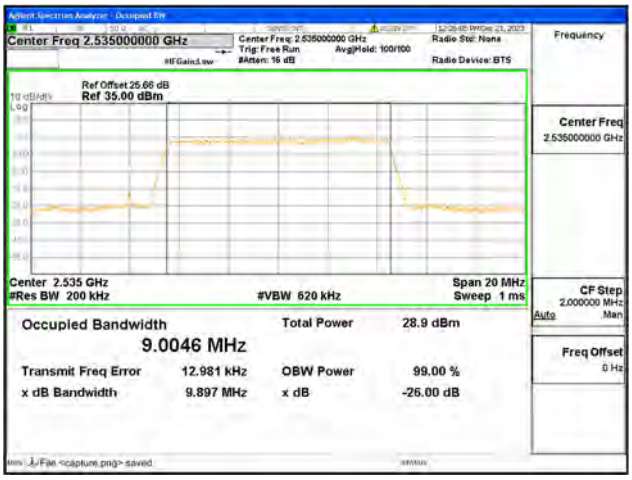
B7 / 10MHz / QPSK/ Low CH



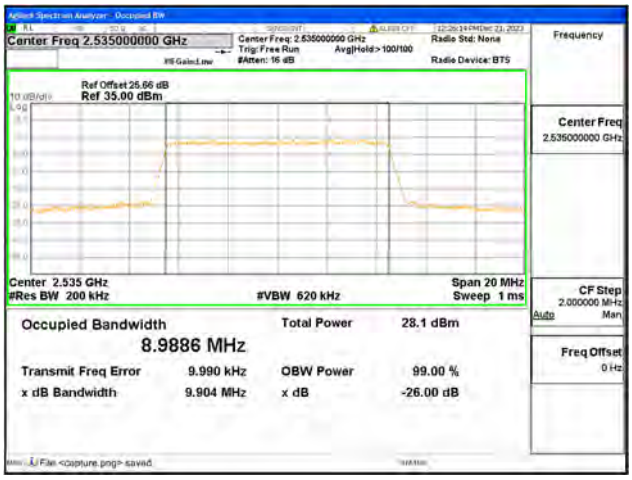
B7 / 10MHz / 64QAM/ Low CH



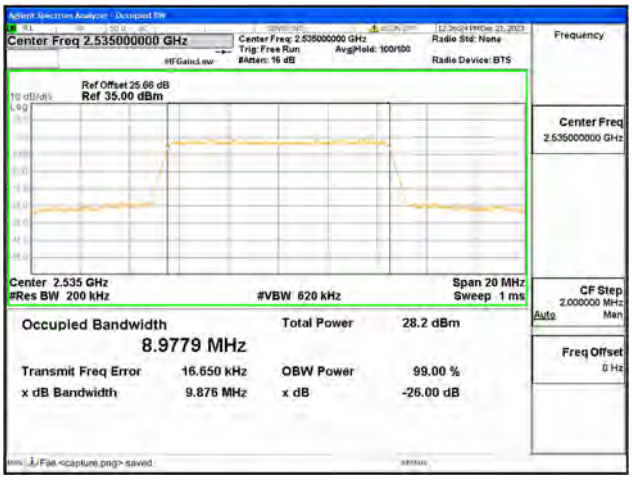
B7 / 10MHz / 16QAM/ Low CH



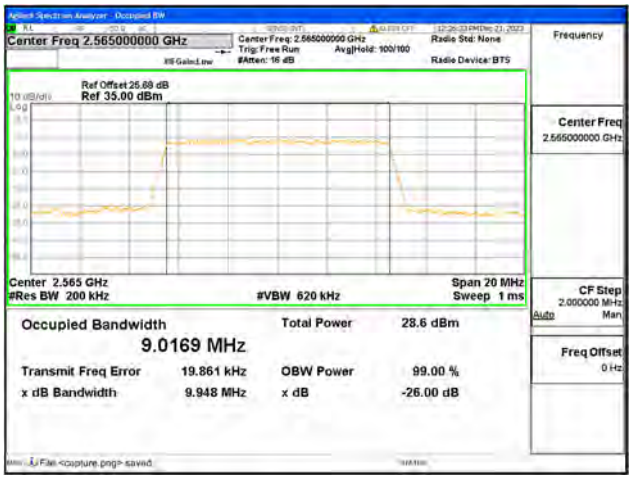
B7 / 10MHz / QPSK/ Mid CH



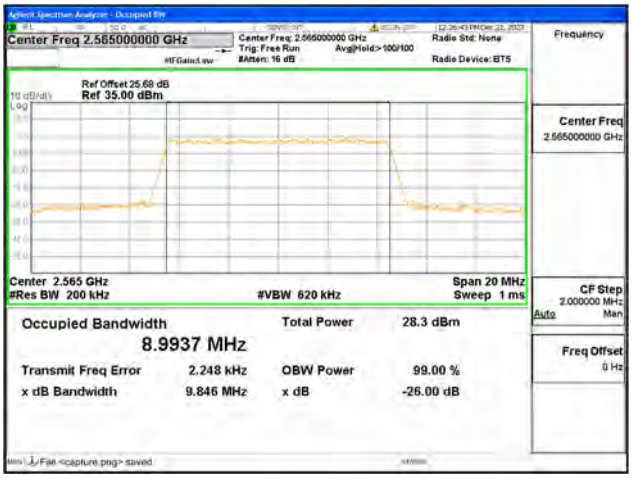
B7 / 10MHz / 64QAM/ Mid CH



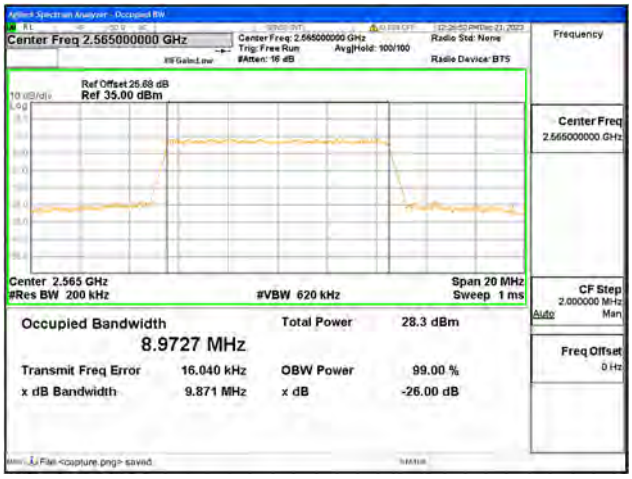
B7 / 10MHz / 16QAM/ Mid CH



B7 / 10MHz / QPSK/ High CH



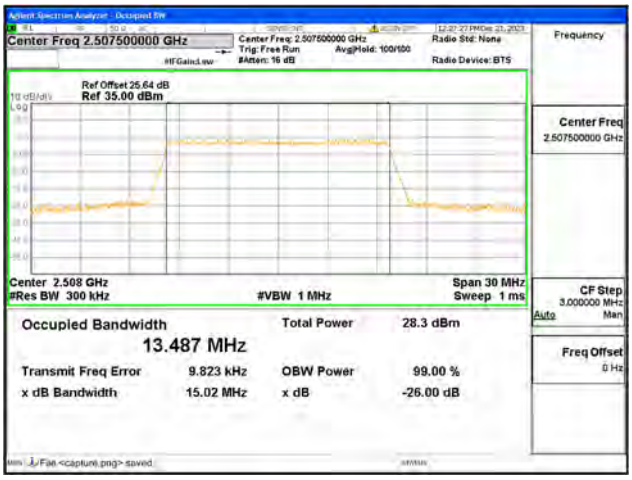
B7 / 10MHz / 64QAM/ High CH



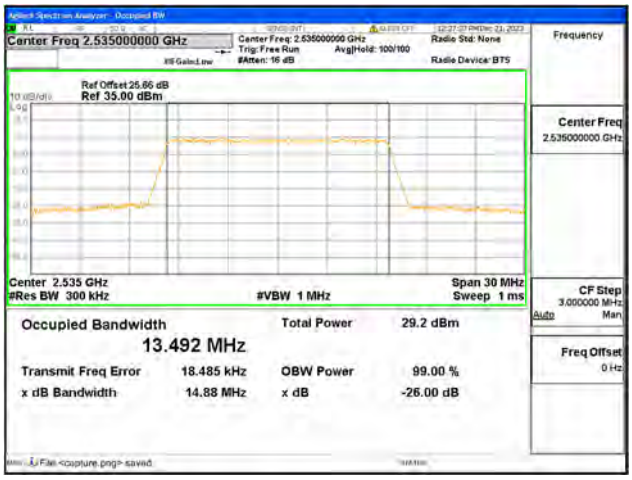
B7 / 10MHz / 16QAM/ High CH

B7 / 15MHz / QPSK/ Low CH

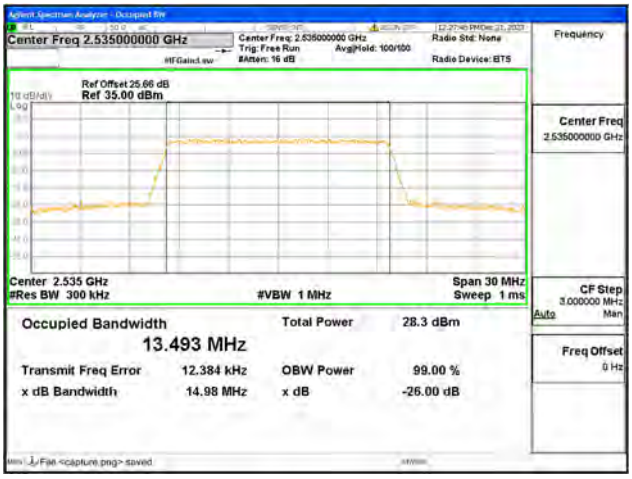
B7 / 15MHz / 64QAM/ Low CH



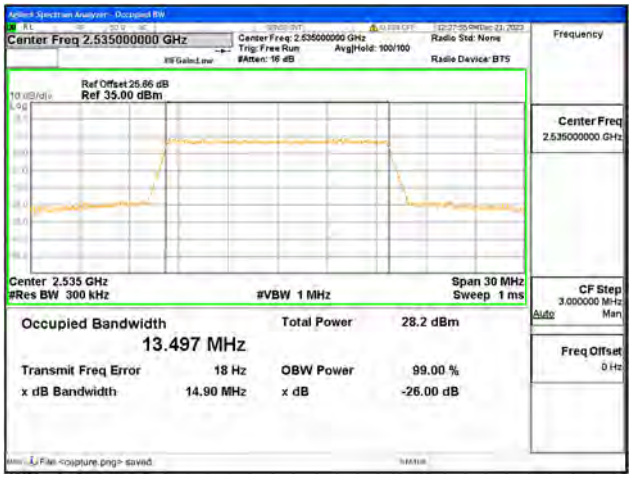
B7 / 15MHz / 16QAM/ Low CH



B7 / 15MHz / QPSK/ Mid CH



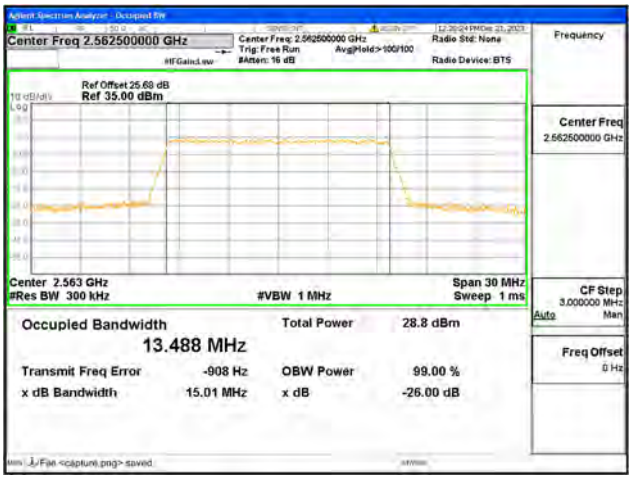
B7 / 15MHz / 64QAM/ Mid CH



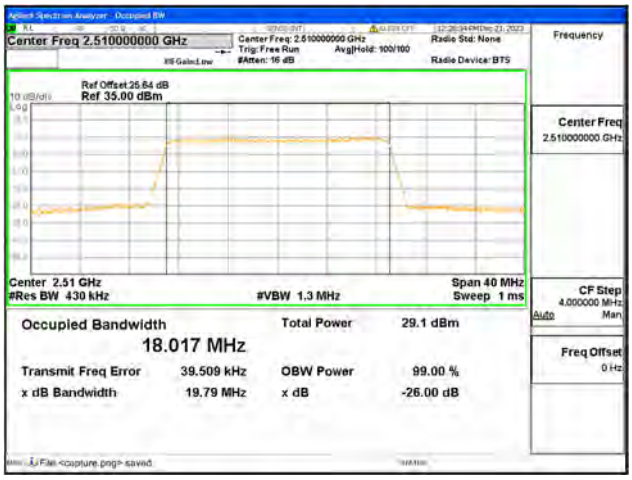
B7 / 15MHz / 16QAM/ Mid CH

B7 / 15MHz / QPSK/ High CH

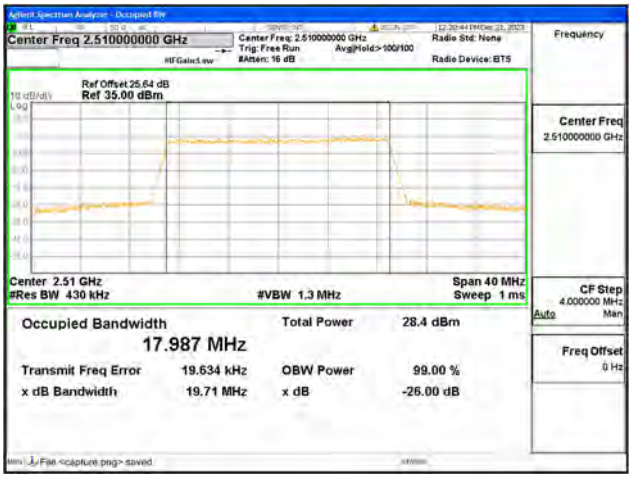
B7 / 15MHz / 64QAM/ High CH



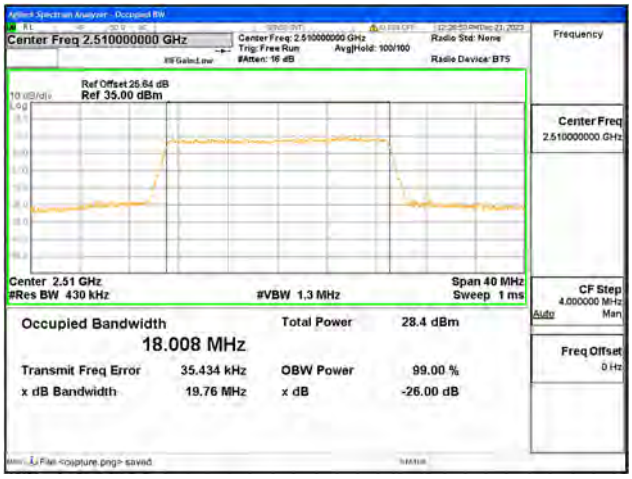
B7 / 15MHz / 16QAM/ High CH



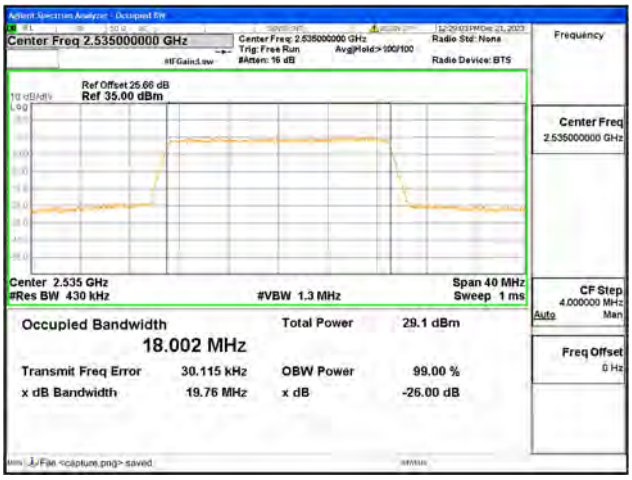
B7 / 20MHz / QPSK/ Low CH



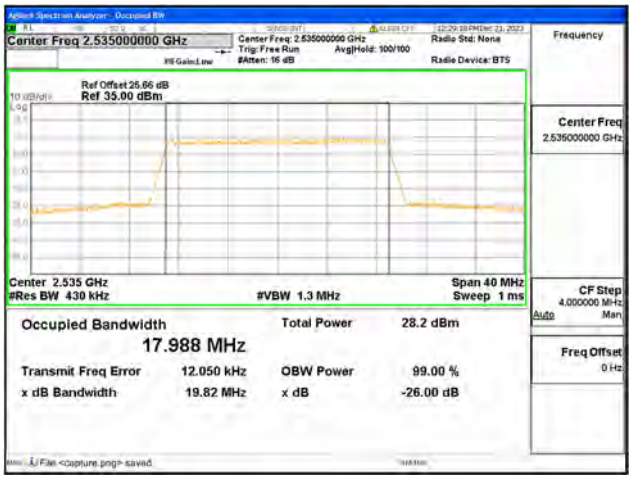
B7 / 20MHz / 64QAM/ Low CH



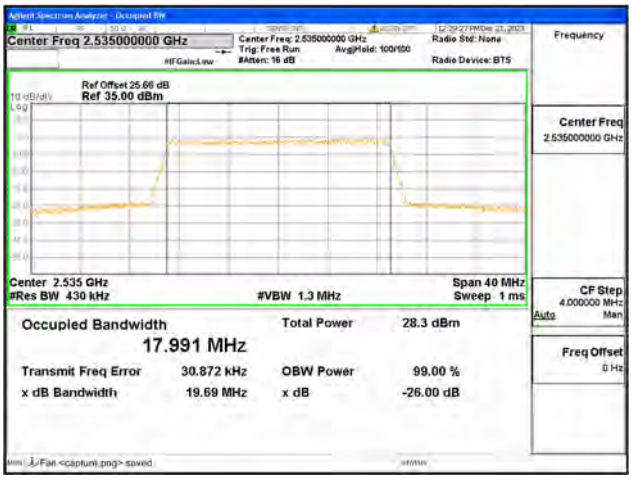
B7 / 20MHz / 16QAM/ Low CH



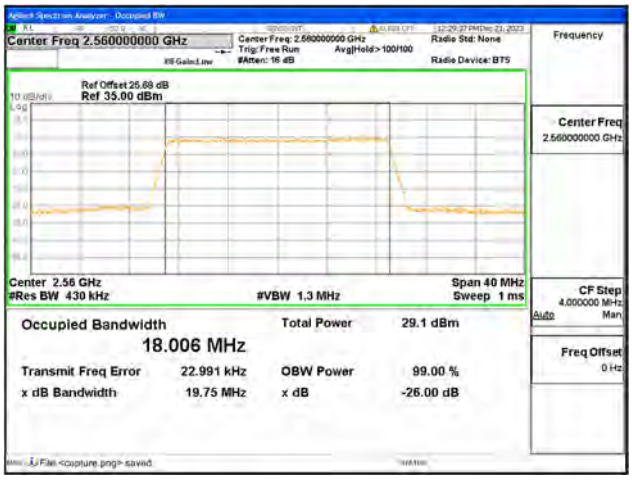
B7 / 20MHz / QPSK/ Mid CH



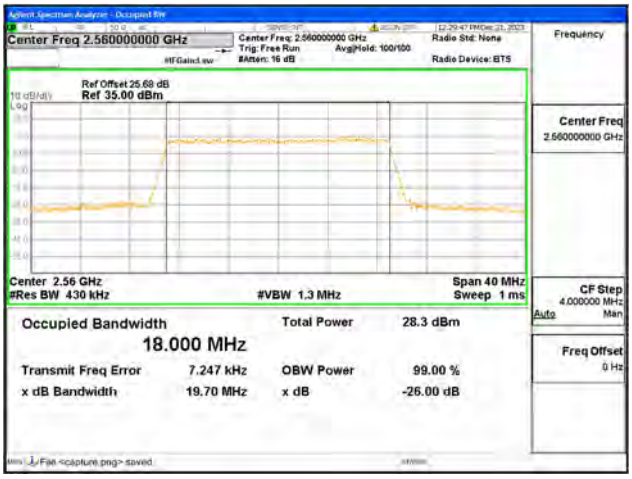
B7 / 20MHz / 64QAM/ Mid CH



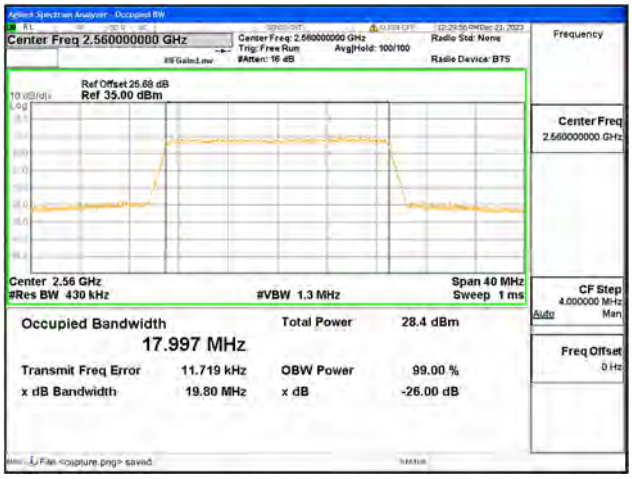
B7 / 20MHz / 16QAM/ Mid CH



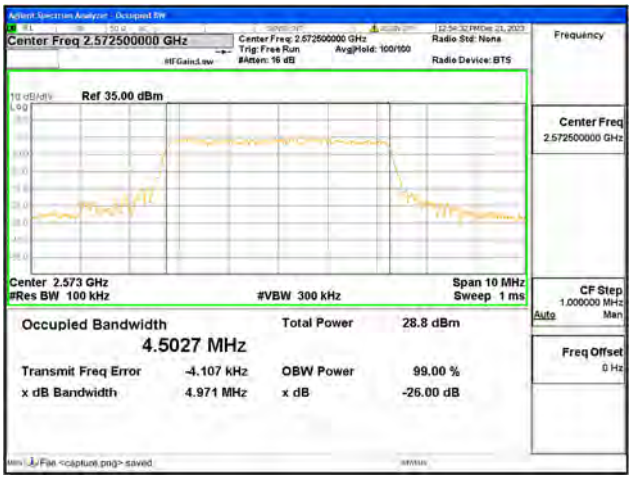
B7 / 20MHz / QPSK/ High CH



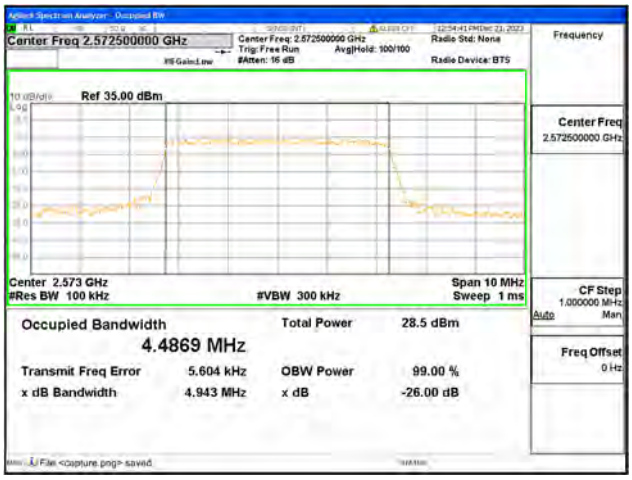
B7 / 20MHz / 64QAM/ High CH



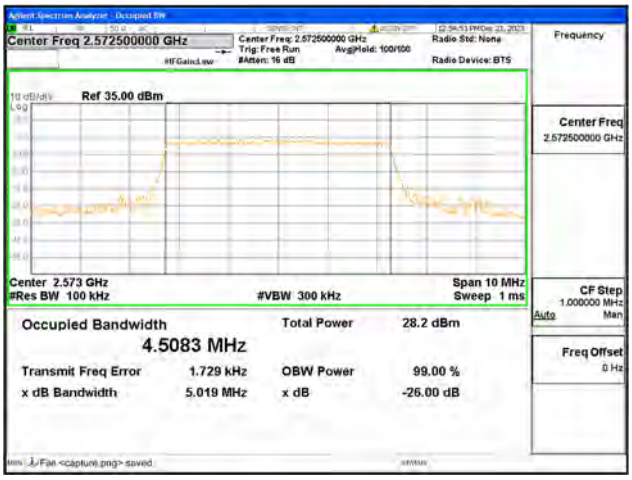
B7 / 20MHz / 16QAM/ High CH



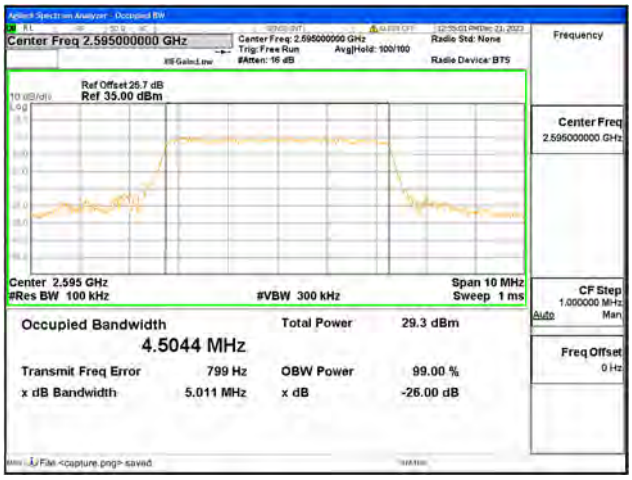
B38 / 5MHz / QPSK/ Low CH



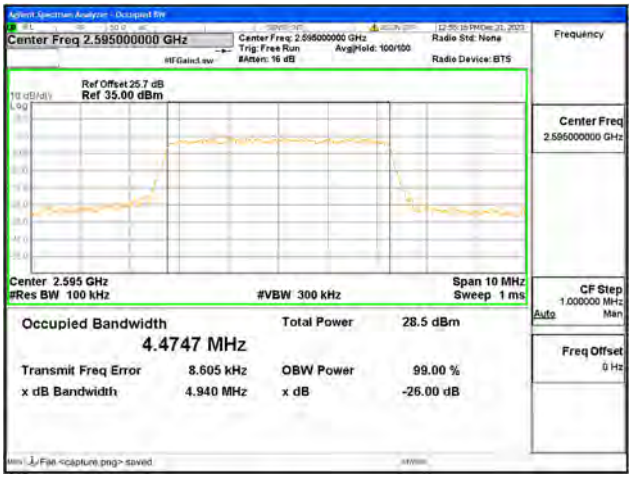
B38 / 5MHz / 64QAM/ Low CH



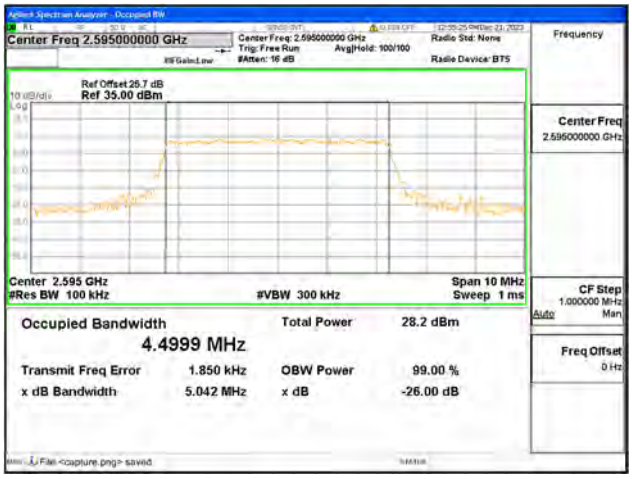
B38 / 5MHz / 16QAM/ Low CH



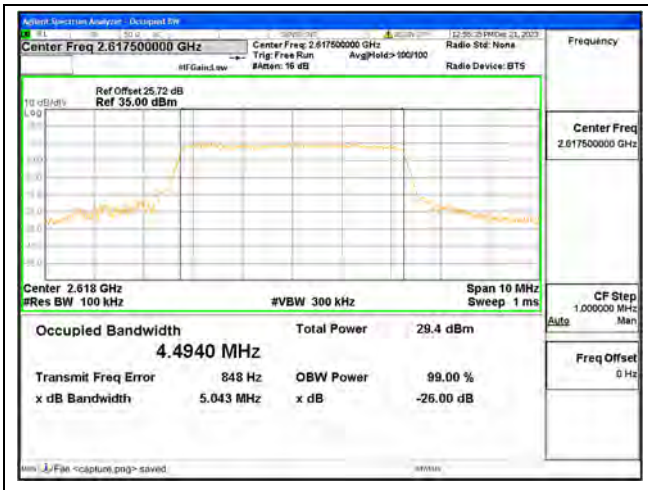
B38 / 5MHz / QPSK/ Mid CH



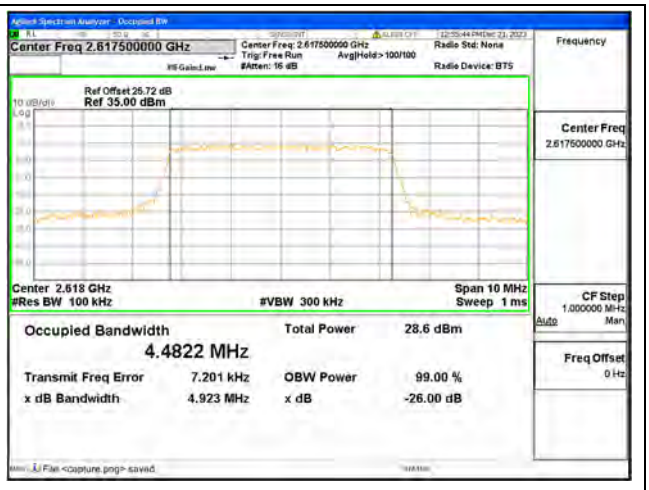
B38 / 5MHz / 64QAM/ Mid CH



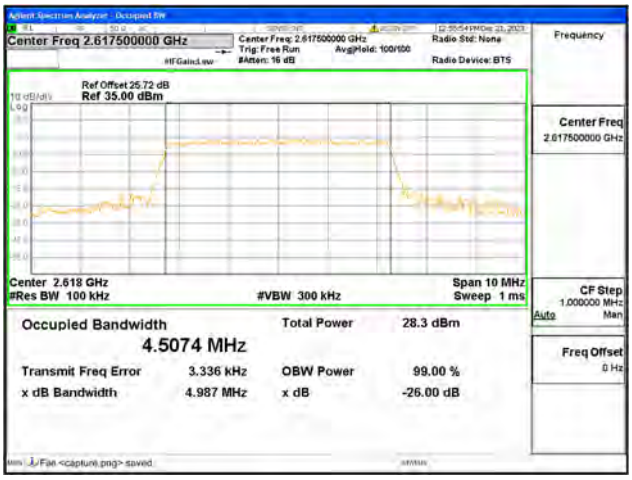
B38 / 5MHz / 16QAM/ Mid CH



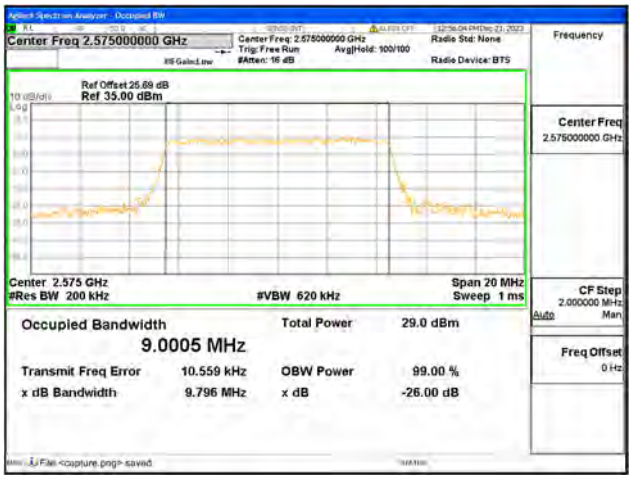
B38 / 5MHz / QPSK/ High CH



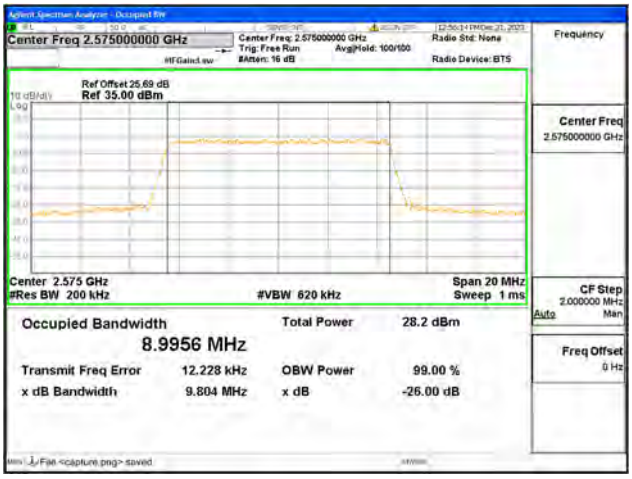
B38 / 5MHz / 64QAM/ High CH



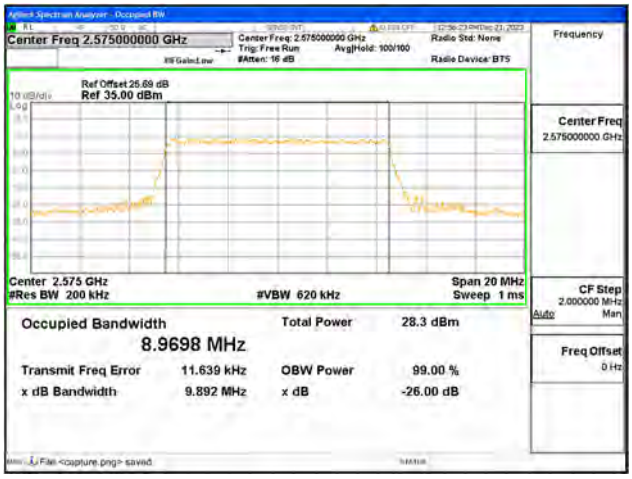
B38 / 5MHz / 16QAM/ High CH



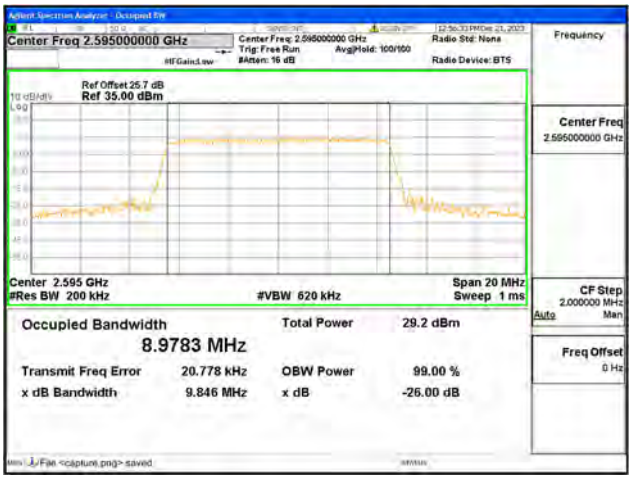
B38 / 10MHz / QPSK/ Low CH



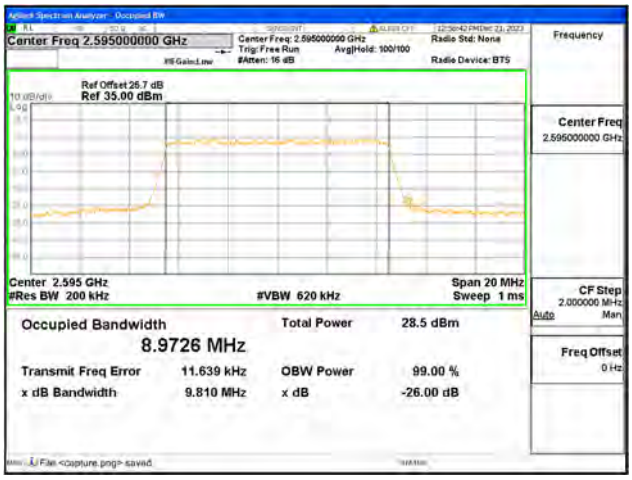
B38 / 10MHz / 64QAM/ Low CH



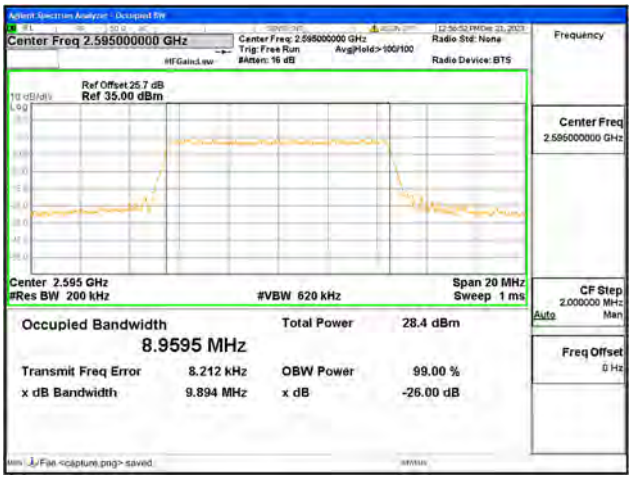
B38 / 10MHz / 16QAM/ Low CH



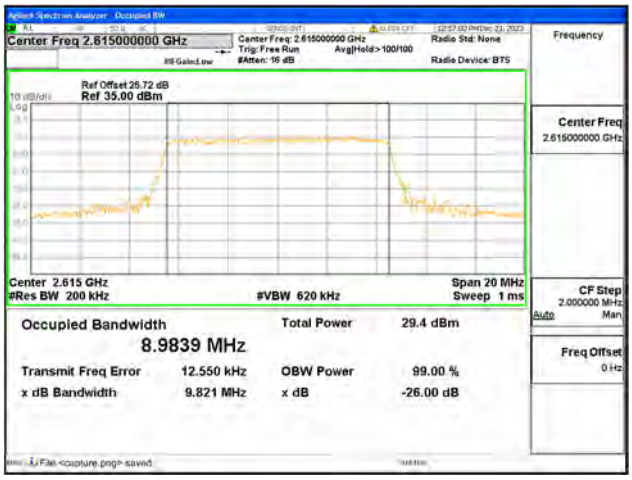
B38 / 10MHz / QPSK/ Mid CH



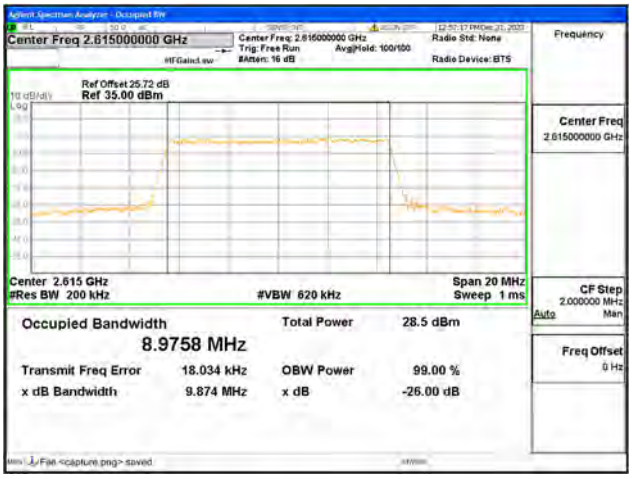
B38 / 10MHz / 64QAM/ Mid CH



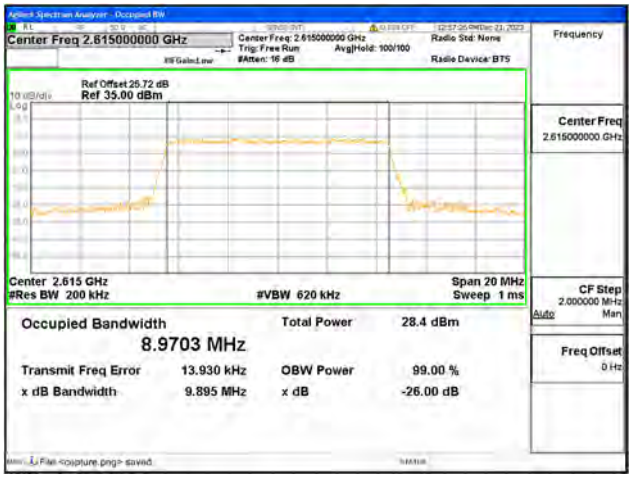
B38 / 10MHz / 16QAM/ Mid CH



B38 / 10MHz / QPSK/ High CH

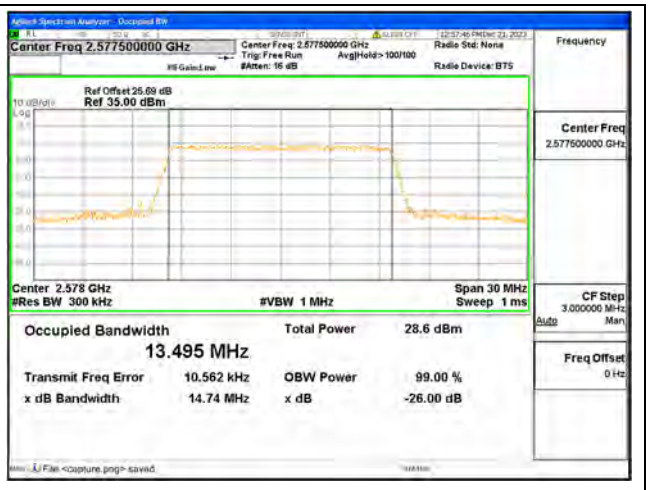


B38 / 10MHz / 64QAM/ High CH

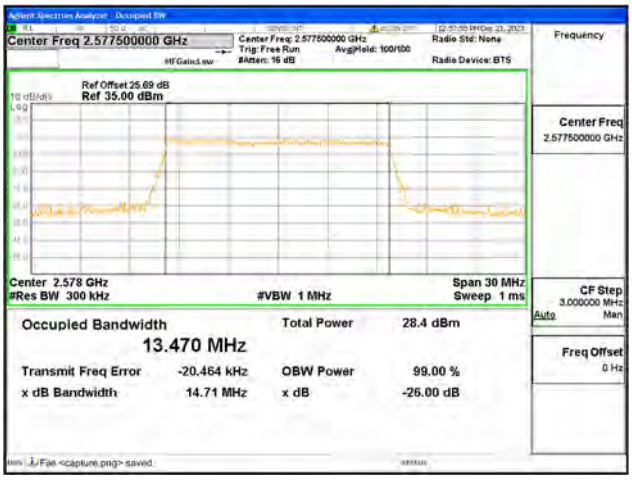


B38 / 10MHz / 16QAM/ High CH

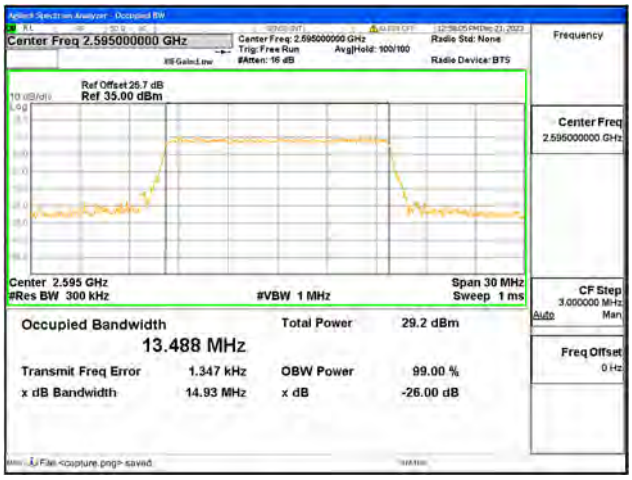
B38 / 15MHz / QPSK/ Low CH



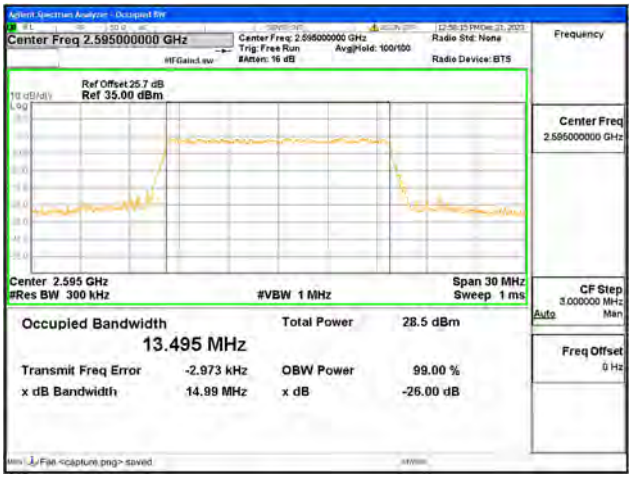
B38 / 15MHz / 64QAM/ Low CH



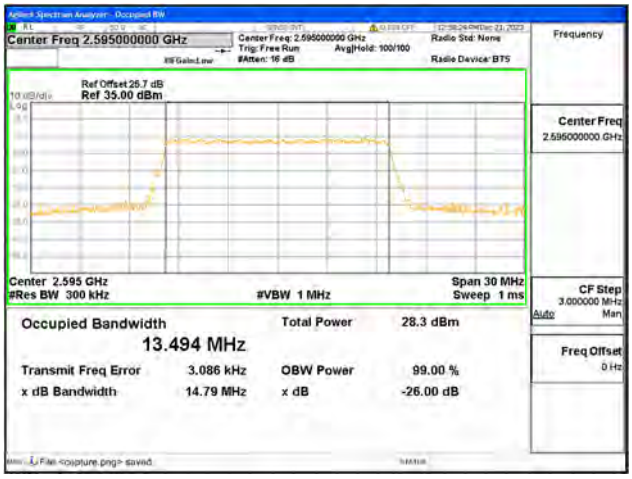
B38 / 15MHz / 16QAM/ Low CH



B38 / 15MHz / QPSK/ Mid CH



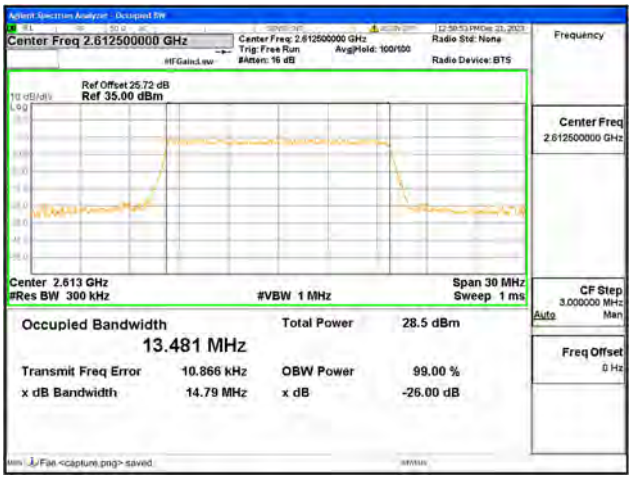
B38 / 15MHz / 64QAM/ Mid CH



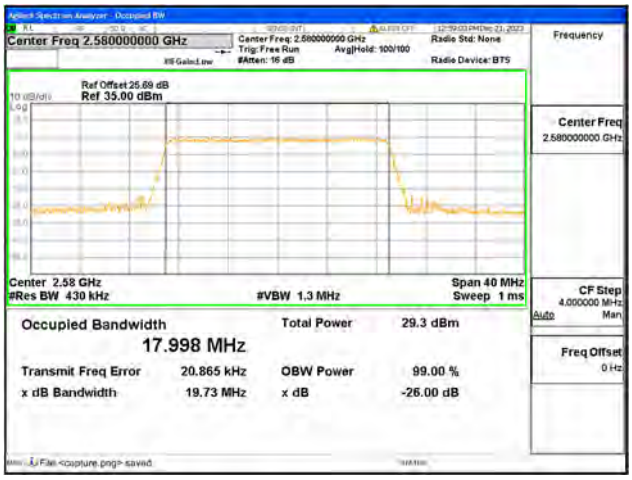
B38 / 15MHz / 16QAM/ Mid CH

B38 / 15MHz / QPSK/ High CH

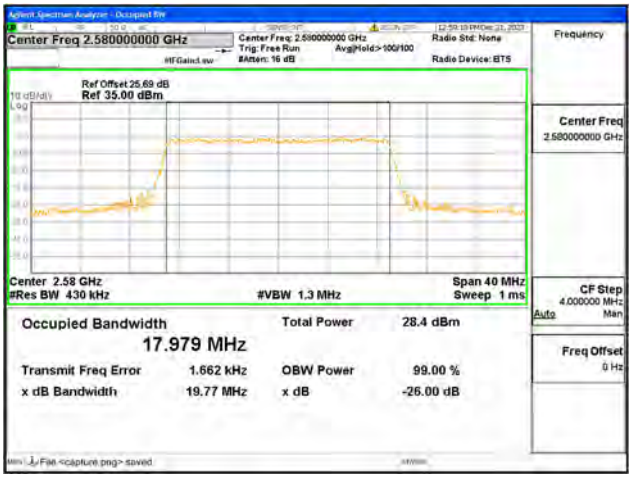
B38 / 15MHz / 64QAM/ High CH



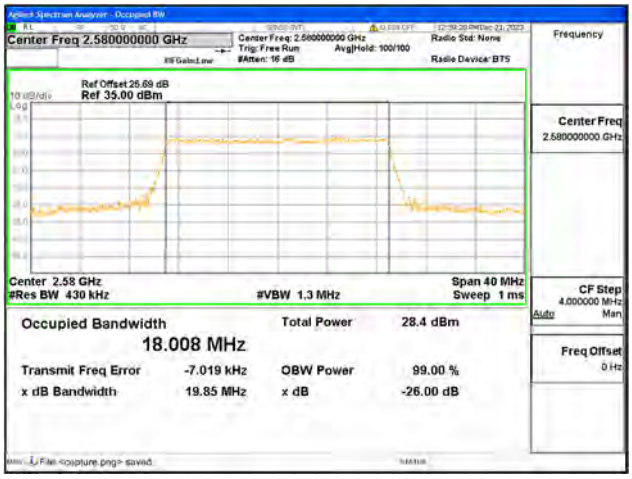
B38 / 15MHz / 16QAM/ High CH



B38 / 20MHz / QPSK/ Low CH



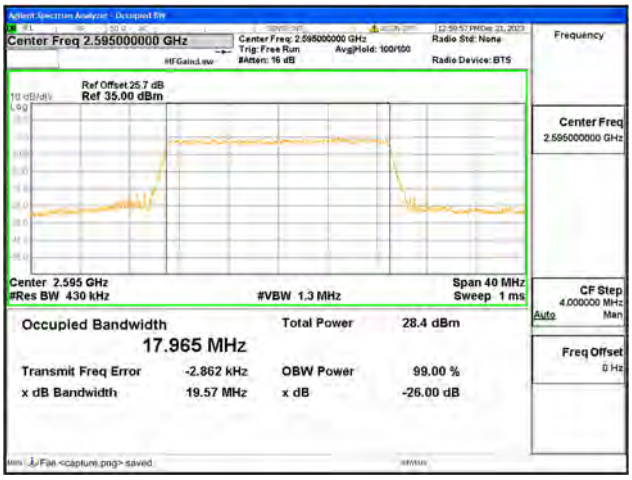
B38 / 20MHz / 64QAM/ Low CH



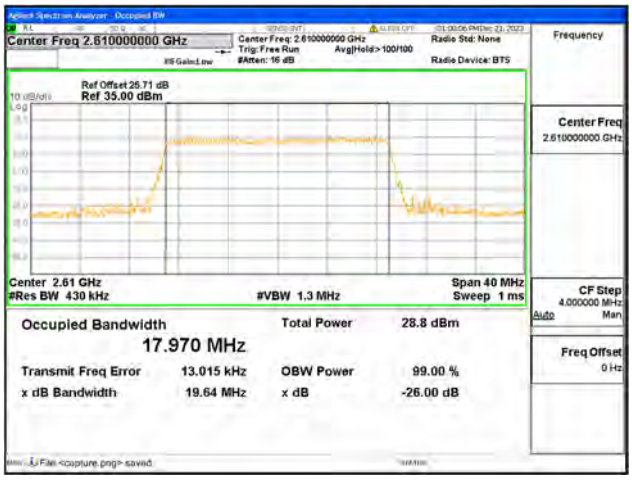
B38 / 20MHz / 16QAM/ Low CH

B38 / 20MHz / QPSK/ Mid CH

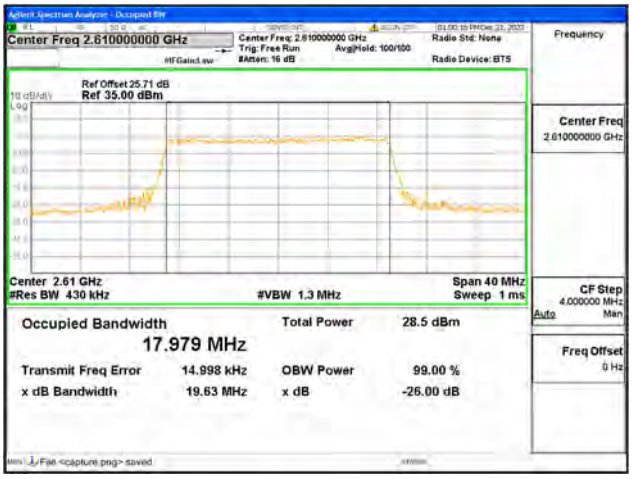
B38 / 20MHz / 64QAM/ Mid CH



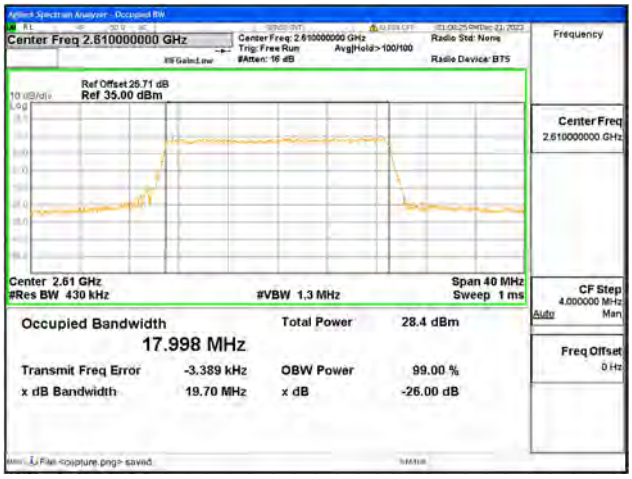
B38 / 20MHz / 16QAM/ Mid CH



B38 / 20MHz / QPSK/ High CH



B38 / 20MHz / 64QAM/ High CH



B38 / 20MHz / 16QAM/ High CH

2.3. Frequency Stability

2.3.1. Requirement

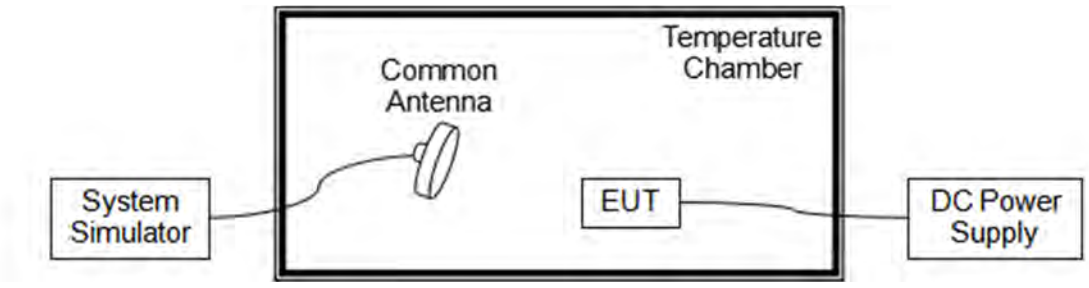
According to FCC section 2.1055, 24.235, 27.54, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

(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 55°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 3.8V, 4.35V and 3.5V, 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**
Normal	3.8	+20(Ref)	17	0.009	PASS
Normal		-10	20	**0.011**	
Normal		0	-15	-0.008	
Normal		+10	-23	-0.012	
Normal		+20	20	**0.011**	
Normal		+30	0	0.000	
Normal		+40	19	0.010	
Normal		+50	15	0.008	
Normal		+55	20	**0.011**	
High	4.35	+20	-19	-0.010	
BATT.ENDPOINT	3.5	+20	-5	-0.003	

LTE Band 4, QPSK, Channel 20175, Frequency 1732.5MHz Limit =Within Authorized Band					
Voltage (%)	**Power (VDC)**	**Temp(°C)**	**Fre. Dev.(Hz)**	**Deviation (ppm)**	**Result**
Normal	3.8	+20(Ref)	14	0.008	PASS
Normal		-10	16	0.009	
Normal		0	18	0.010	
Normal		+10	14	0.008	
Normal		+20	16	0.009	
Normal		+30	13	0.008	
Normal		+40	17	0.010	
Normal		+50	-7	-0.004	
Normal		+55	16	0.009	
High	4.35	+20	17	0.010	
BATT.ENDPOINT	3.5	+20	21	**0.012**	

LTE Band 5, QPSK, Channel 20525, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	**Power (VDC)**	**Temp(°C)**	**Fre. Dev.(Hz)**	**Deviation (ppm)**	**Result**
Normal	3.8	+20(Ref)	-21	-0.025	PASS
Normal		-10	22	**0.026**	
Normal		0	-23	-0.027	
Normal		+10	3	0.004	
Normal		+20	17	0.020	
Normal		+30	14	0.017	
Normal		+40	15	0.018	
Normal		+50	18	0.022	
Normal		+55	20	0.024	
High	4.35	+20	16	0.019	
BATT.ENDPOINT	3.5	+20	18	0.022	

LTE Band 7, 64QAM, Channel 21100, Frequency 2535.0MHz Limit =Within Authorized Band					
Voltage (%)	**Power (VDC)**	**Temp(°C)**	**Fre. Dev.(Hz)**	**Deviation (ppm)**	**Result**
Normal	3.8	+20(Ref)	-1	0.000	PASS
Normal		-10	17	0.007	
Normal		0	-8	-0.003	
Normal		+10	20	**0.008**	
Normal		+20	13	0.005	
Normal		+30	-20	-0.008	
Normal		+40	8	0.003	
Normal		+50	19	0.007	
Normal		+55	19	0.007	
High	4.35	+20	20	**0.008**	
BATT.ENDPOINT	3.5	+20	17	0.007	

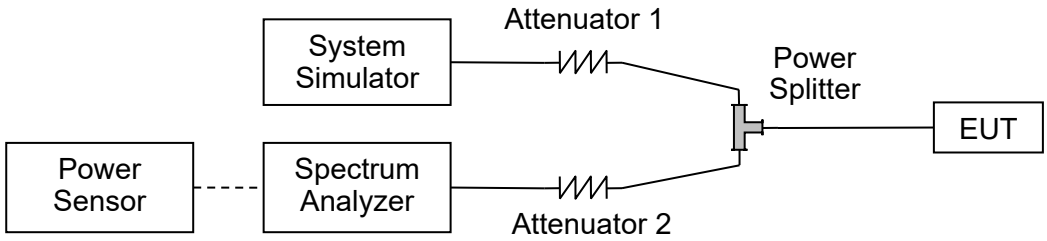
LTE Band 38, QPSK, Channel 38000, Frequency 2595MHz Limit =Within Authorized Band					
Voltage (%)	**Power (VDC)**	**Temp(°C)**	**Fre. Dev.(Hz)**	**Deviation (ppm)**	**Result**
Normal	3.8	+20(Ref)	20	**0.008**	PASS
Normal		-10	17	0.007	
Normal		0	-19	-0.007	
Normal		+10	-3	-0.001	
Normal		+20	19	0.007	
Normal		+30	-3	-0.001	
Normal		+40	18	0.007	
Normal		+50	4	0.002	
Normal		+55	18	0.007	
High	4.35	+20	18	0.007	
BATT.ENDPOINT	3.5	+20	15	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%.

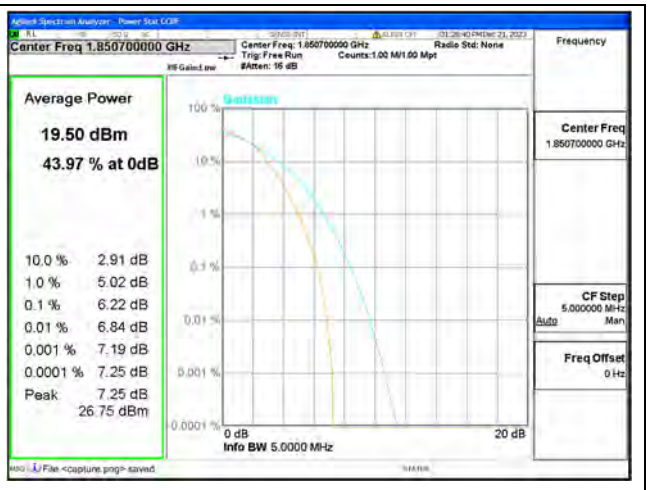
LTE Band 2					
BW(MHz)	**Channel Level**	**Modulation**	**PAR Radio(dB)**	**Limit(dB)**	**Verdict**
1.4	Low	QPSK	5.60	<=13	PASS
	Low	16QAM	6.22	<=13	PASS
	Low	64QAM	6.38	<=13	PASS
	Mid	QPSK	5.61	<=13	PASS
	Mid	16QAM	6.19	<=13	PASS
	Mid	64QAM	6.42	<=13	PASS
	High	QPSK	5.20	<=13	PASS
	High	16QAM	5.93	<=13	PASS
	High	64QAM	6.10	<=13	PASS
3	Low	QPSK	5.58	<=13	PASS
	Low	16QAM	6.11	<=13	PASS
	Low	64QAM	6.25	<=13	PASS
	Mid	QPSK	5.66	<=13	PASS
	Mid	16QAM	6.18	<=13	PASS
	Mid	64QAM	6.40	<=13	PASS
	High	QPSK	5.49	<=13	PASS
	High	16QAM	6.09	<=13	PASS
	High	64QAM	6.21	<=13	PASS
5	Low	QPSK	5.60	<=13	PASS
	Low	16QAM	6.13	<=13	PASS
	Low	64QAM	6.22	<=13	PASS
	Mid	QPSK	5.76	<=13	PASS
	Mid	16QAM	6.18	<=13	PASS
	Mid	64QAM	6.26	<=13	PASS
	High	QPSK	5.48	<=13	PASS
	High	16QAM	6.11	<=13	PASS
	High	64QAM	6.17	<=13	PASS
10	Low	QPSK	5.83	<=13	PASS
	Low	16QAM	6.28	<=13	PASS
	Low	64QAM	6.29	<=13	PASS
	Mid	QPSK	5.71	<=13	PASS
	Mid	16QAM	6.31	<=13	PASS
	Mid	64QAM	6.29	<=13	PASS
	High	QPSK	5.67	<=13	PASS
	High	16QAM	6.25	<=13	PASS
	High	64QAM	6.27	<=13	PASS

15	Low	QPSK	5.62	<=13	PASS
	Low	16QAM	6.19	<=13	PASS
	Low	64QAM	6.21	<=13	PASS
	Mid	QPSK	5.66	<=13	PASS
	Mid	16QAM	6.22	<=13	PASS
	Mid	64QAM	6.25	<=13	PASS
	High	QPSK	5.56	<=13	PASS
	High	16QAM	6.13	<=13	PASS
	High	64QAM	6.18	<=13	PASS
20	Low	QPSK	5.81	<=13	PASS
	Low	16QAM	6.29	<=13	PASS
	Low	64QAM	6.33	<=13	PASS
	Mid	QPSK	5.71	<=13	PASS
	Mid	16QAM	6.36	<=13	PASS
	Mid	64QAM	6.36	<=13	PASS
	High	QPSK	5.74	<=13	PASS
	High	16QAM	6.21	<=13	PASS
	High	64QAM	6.27	<=13	PASS

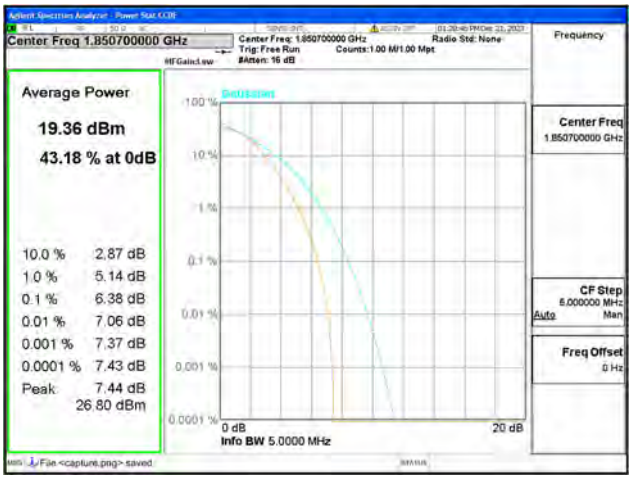
LTE Band 4					
BW(MHz)	**Channel Level**	**Modulation**	**PAR Radio(dB)**	**Limit(dB)**	**Verdict**
1.4	Low	QPSK	6.14	<=13	PASS
	Low	16QAM	6.69	<=13	PASS
	Low	64QAM	6.95	<=13	PASS
	Mid	QPSK	6.04	<=13	PASS
	Mid	16QAM	6.53	<=13	PASS
	Mid	64QAM	6.69	<=13	PASS
	High	QPSK	6.13	<=13	PASS
	High	16QAM	6.72	<=13	PASS
	High	64QAM	6.89	<=13	PASS
3	Low	QPSK	6.09	<=13	PASS
	Low	16QAM	6.71	<=13	PASS
	Low	64QAM	6.91	<=13	PASS
	Mid	QPSK	6.00	<=13	PASS
	Mid	16QAM	6.53	<=13	PASS
	Mid	64QAM	6.68	<=13	PASS
	High	QPSK	6.12	<=13	PASS
	High	16QAM	6.65	<=13	PASS
	High	64QAM	6.87	<=13	PASS
5	Low	QPSK	5.99	<=13	PASS
	Low	16QAM	6.51	<=13	PASS
	Low	64QAM	6.64	<=13	PASS
	Mid	QPSK	5.86	<=13	PASS
	Mid	16QAM	6.37	<=13	PASS
	Mid	64QAM	6.46	<=13	PASS
	High	QPSK	6.00	<=13	PASS
	High	16QAM	6.56	<=13	PASS
	High	64QAM	6.60	<=13	PASS
10	Low	QPSK	6.04	<=13	PASS
	Low	16QAM	6.73	<=13	PASS
	Low	64QAM	6.67	<=13	PASS
	Mid	QPSK	5.96	<=13	PASS
	Mid	16QAM	6.47	<=13	PASS
	Mid	64QAM	6.55	<=13	PASS
	High	QPSK	6.06	<=13	PASS
	High	16QAM	6.61	<=13	PASS
	High	64QAM	6.62	<=13	PASS

15	Low	QPSK	6.03	<=13	PASS
	Low	16QAM	6.70	<=13	PASS
	Low	64QAM	6.76	<=13	PASS
	Mid	QPSK	5.93	<=13	PASS
	Mid	16QAM	6.47	<=13	PASS
	Mid	64QAM	6.50	<=13	PASS
	High	QPSK	6.07	<=13	PASS
	High	16QAM	6.63	<=13	PASS
	High	64QAM	6.68	<=13	PASS
20	Low	QPSK	5.97	<=13	PASS
	Low	16QAM	6.63	<=13	PASS
	Low	64QAM	6.68	<=13	PASS
	Mid	QPSK	5.79	<=13	PASS
	Mid	16QAM	6.53	<=13	PASS
	Mid	64QAM	6.58	<=13	PASS
	High	QPSK	6.12	<=13	PASS
	High	16QAM	6.63	<=13	PASS
	High	64QAM	6.60	<=13	PASS

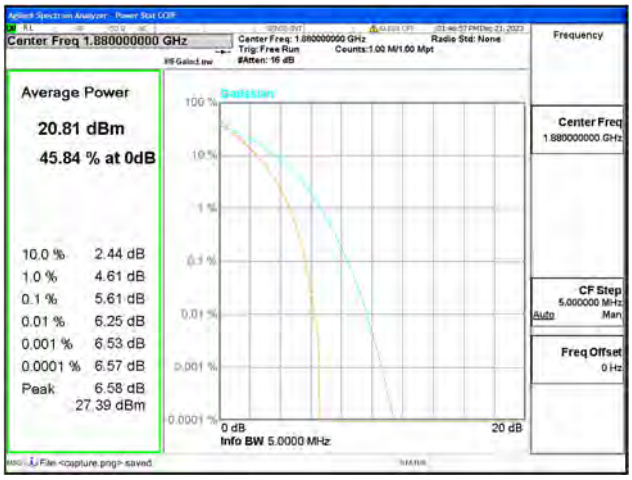
B2 / 1.4MHz / Low CH / QPSK



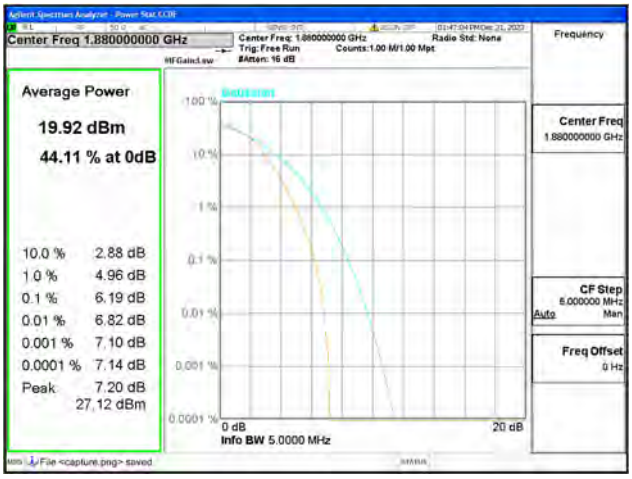
B2 / 1.4MHz / Low CH / 64QAM



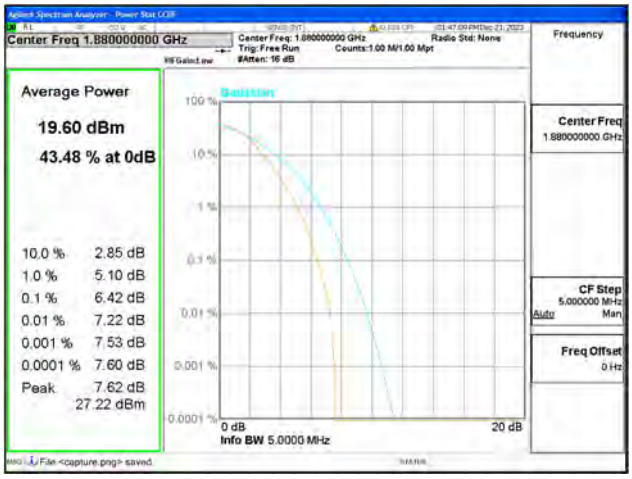
B2 / 1.4MHz / Low CH / 16QAM



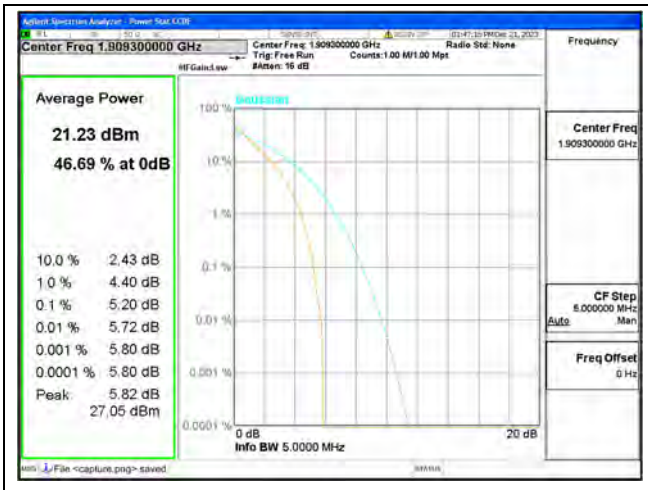
B2 / 1.4MHz / Mid CH / QPSK



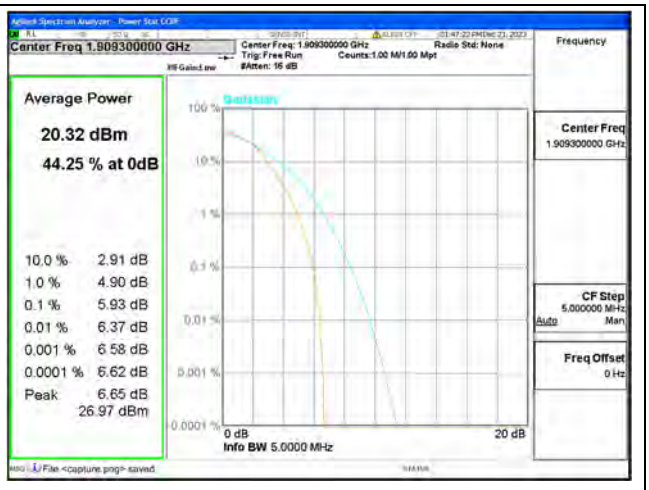
B2 / 1.4MHz / Mid CH / 64QAM



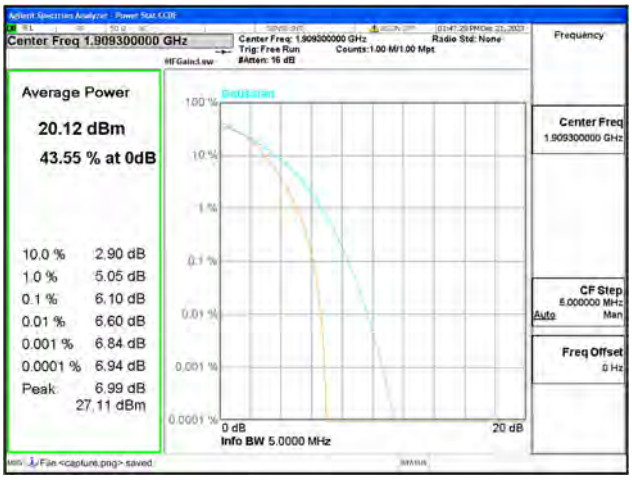
B2 / 1.4MHz / Mid CH / 16QAM



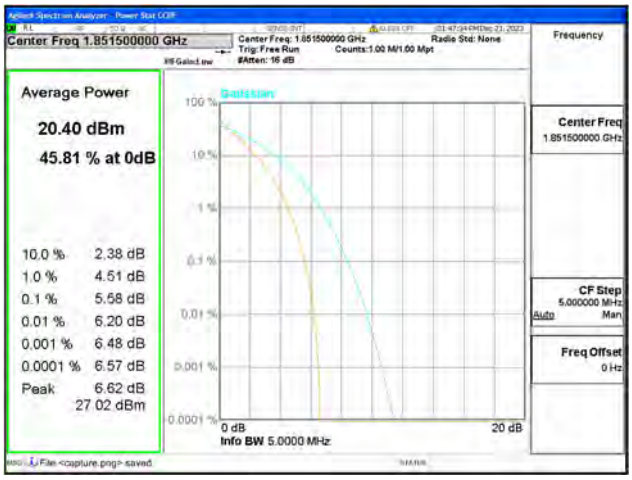
B2 / 1.4MHz / High CH / QPSK



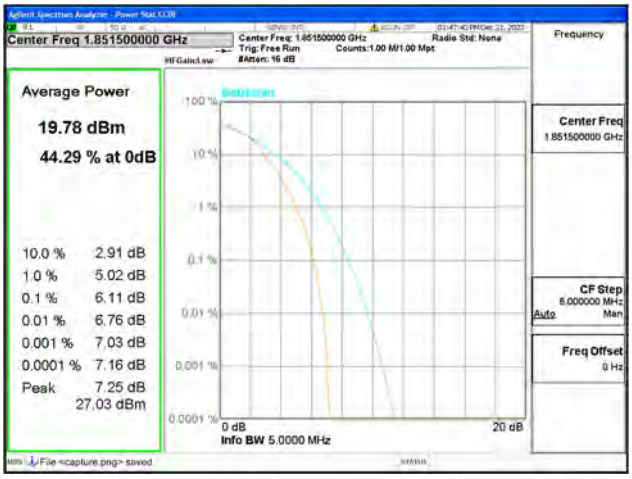
B2 / 1.4MHz / High CH / 64QAM



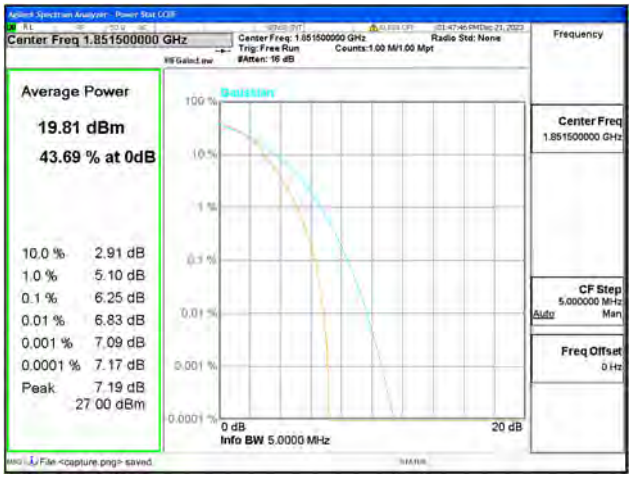
B2 / 1.4MHz / High CH / 16QAM



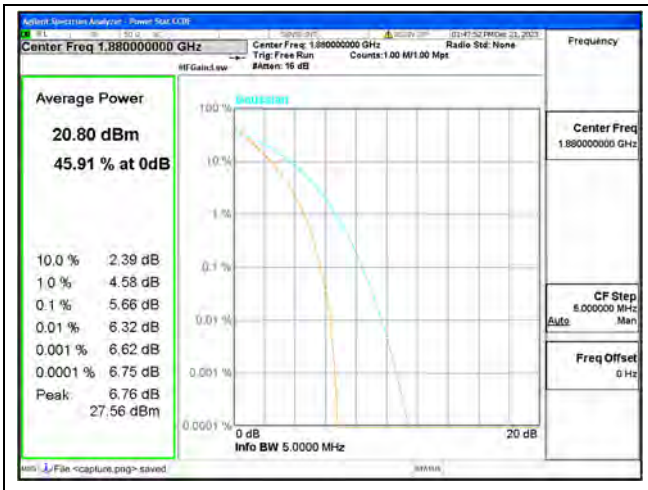
B2 / 3MHz / Low CH / QPSK



B2 / 3MHz / Low CH / 64QAM

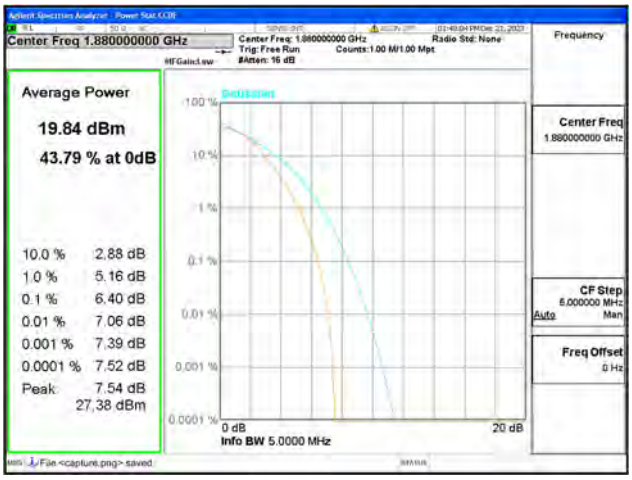


B2 / 3MHz / Low CH / 16QAM

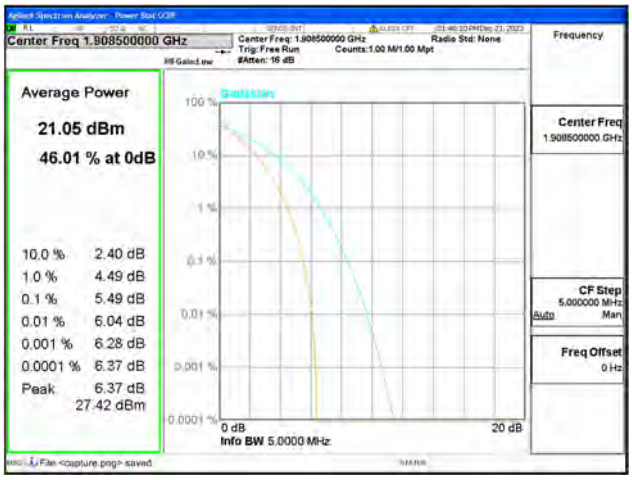


B2 / 3MHz / Mid CH / QPSK

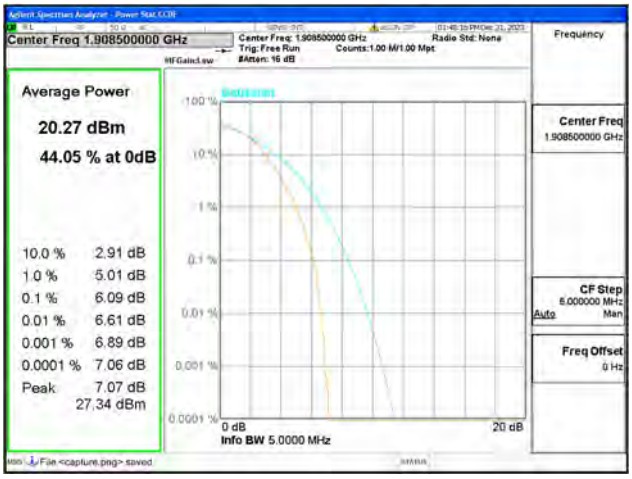
B2 / 3MHz / Mid CH / 64QAM



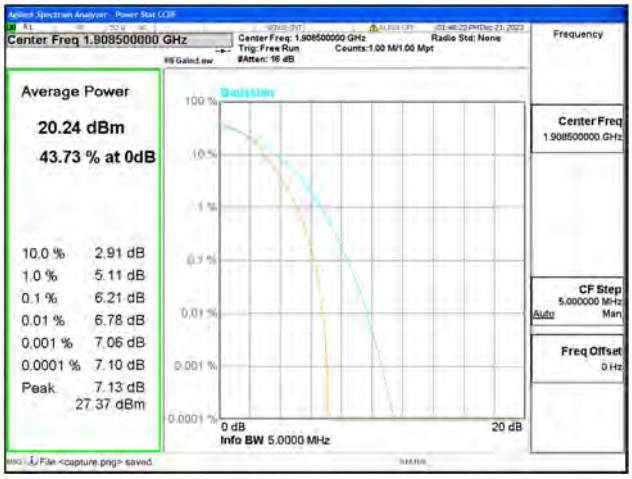
B2 / 3MHz / Mid CH / 16QAM



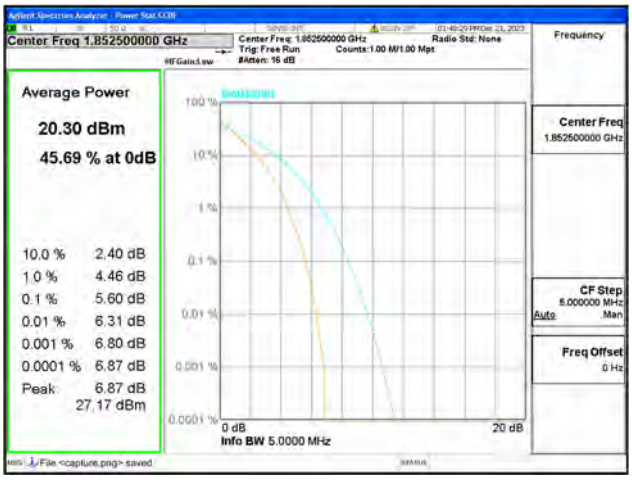
B2 / 3MHz / High CH / QPSK



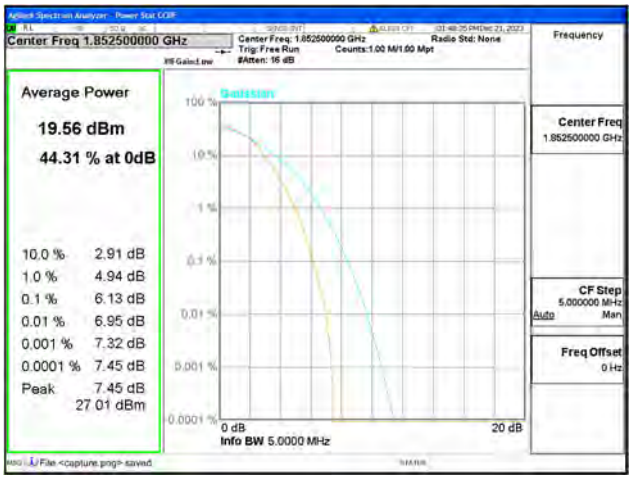
B2 / 3MHz / High CH / 64QAM



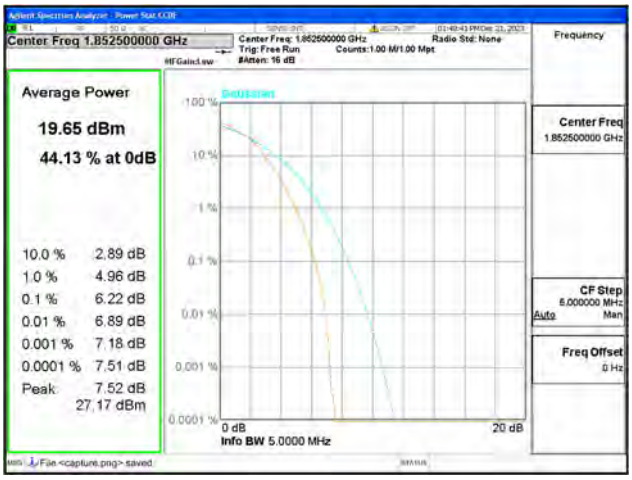
B2 / 3MHz / High CH / 16QAM



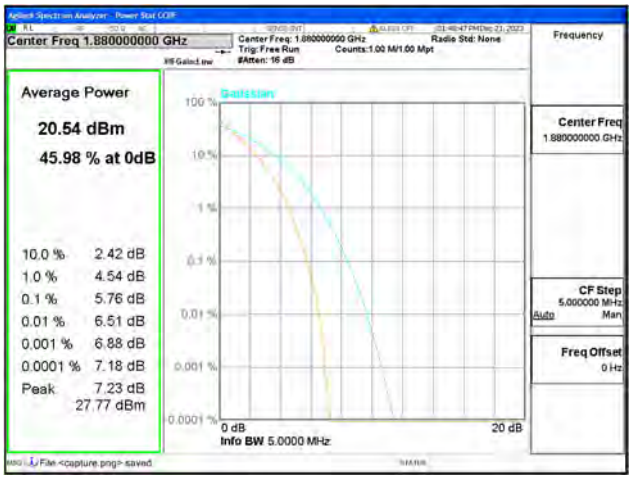
B2 / 5MHz / Low CH / QPSK



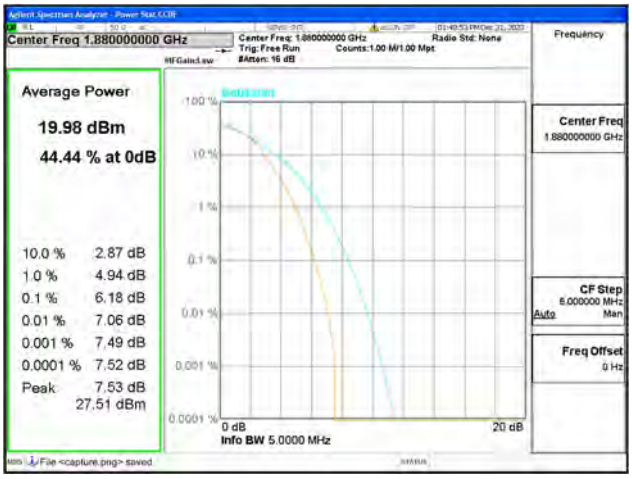
B2 / 5MHz / Low CH / 64QAM



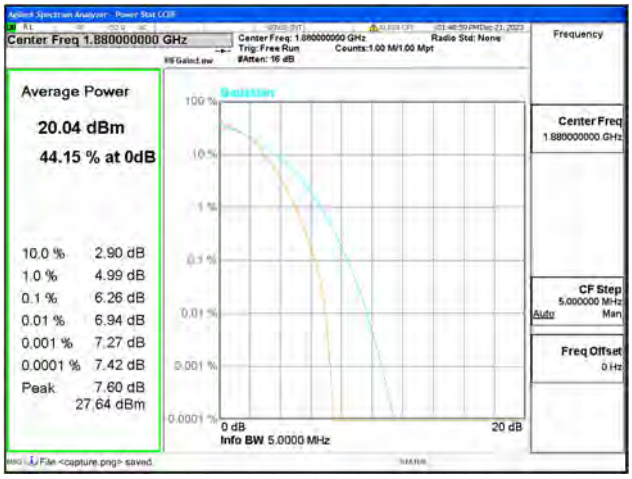
B2 / 5MHz / Low CH / 16QAM



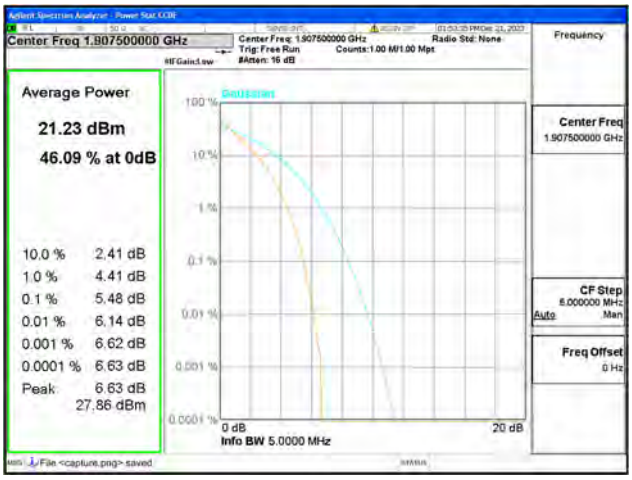
B2 / 5MHz / Mid CH / QPSK



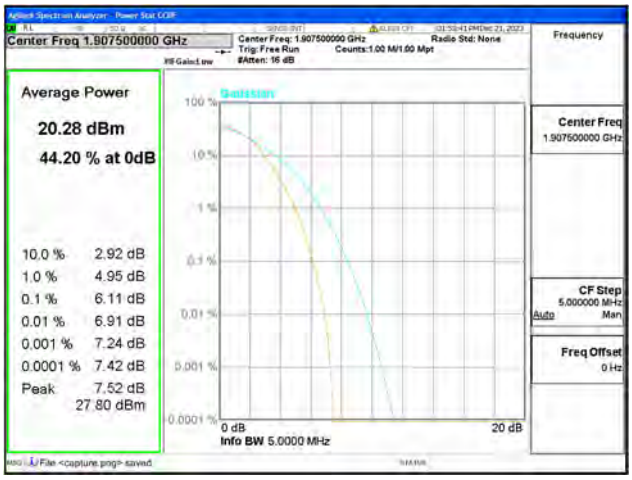
B2 / 5MHz / Mid CH / 64QAM



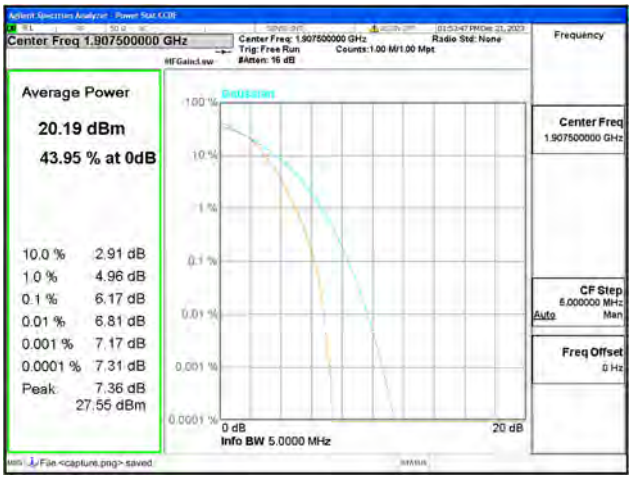
B2 / 5MHz / Mid CH / 16QAM



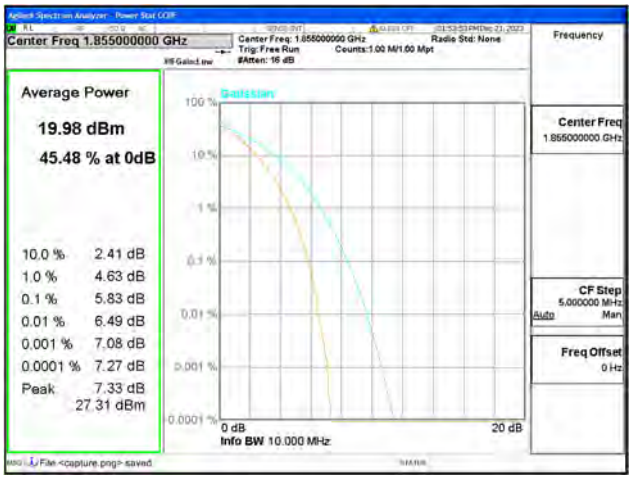
B2 / 5MHz / High CH / QPSK



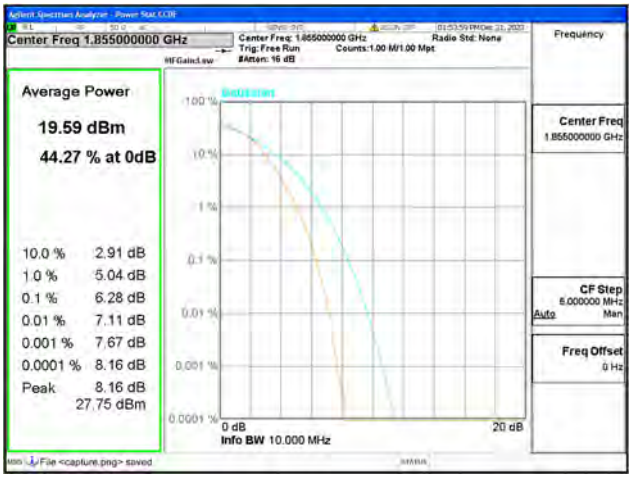
B2 / 5MHz / High CH / 64QAM



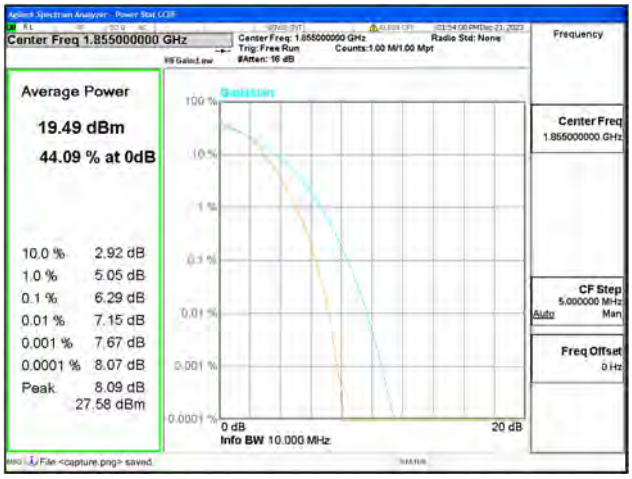
B2 / 5MHz / High CH / 16QAM



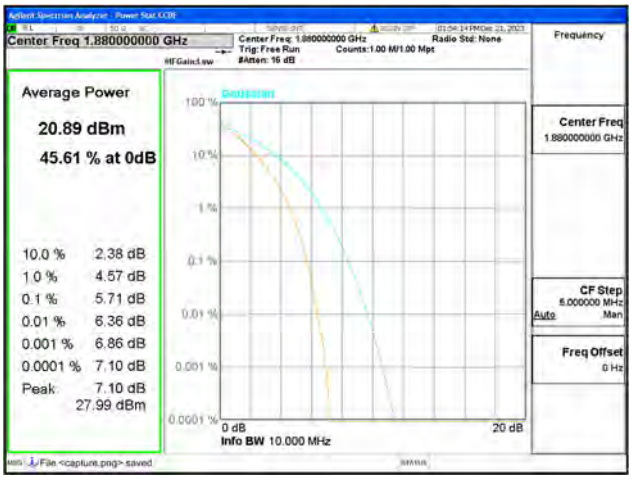
B2 / 10MHz / Low CH / QPSK



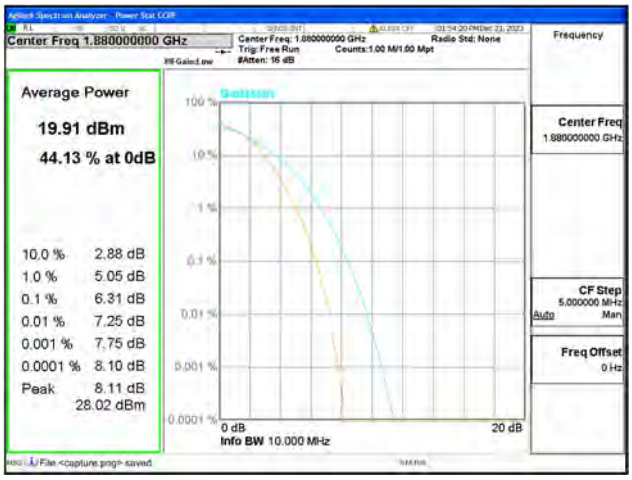
B2 / 10MHz / Low CH / 64QAM



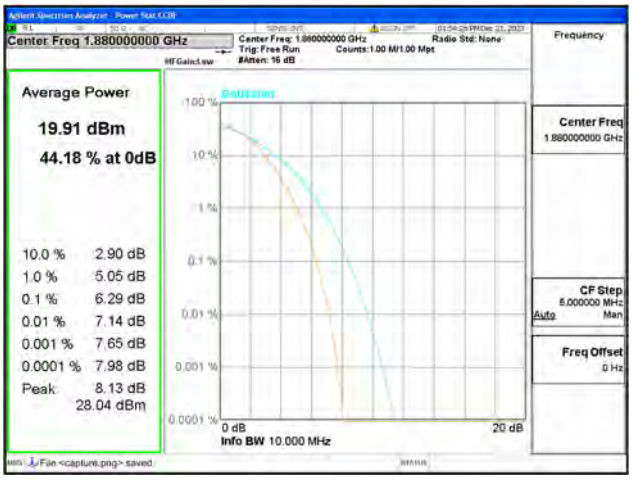
B2 / 10MHz / Low CH / 16QAM



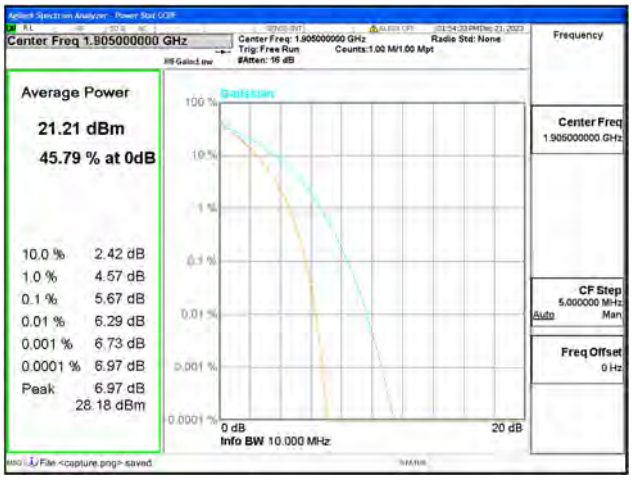
B2 / 10MHz / Mid CH / QPSK



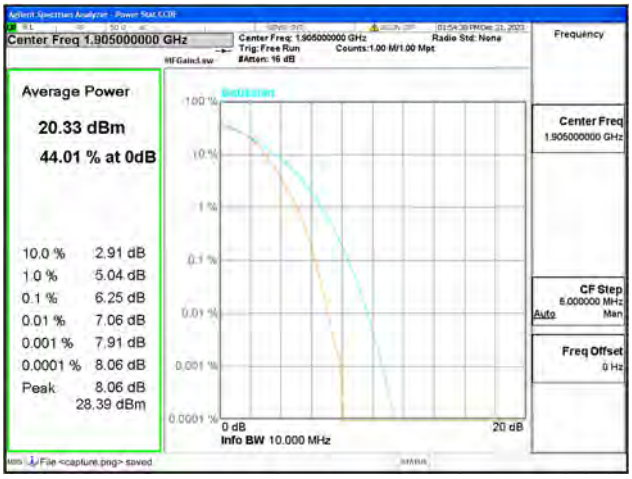
B2 / 10MHz / Mid CH / 64QAM



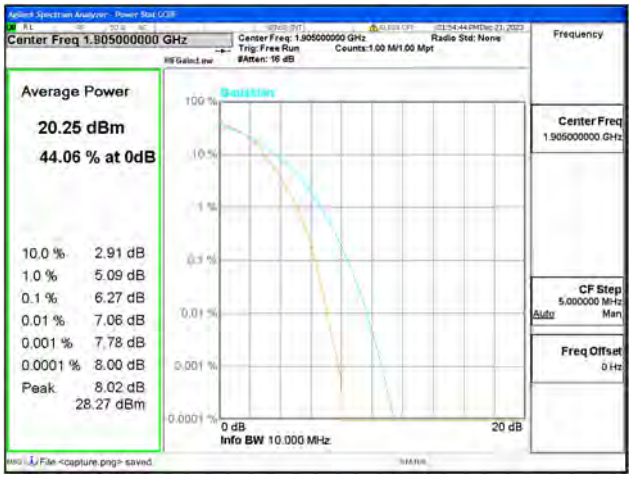
B2 / 10MHz / Mid CH / 16QAM



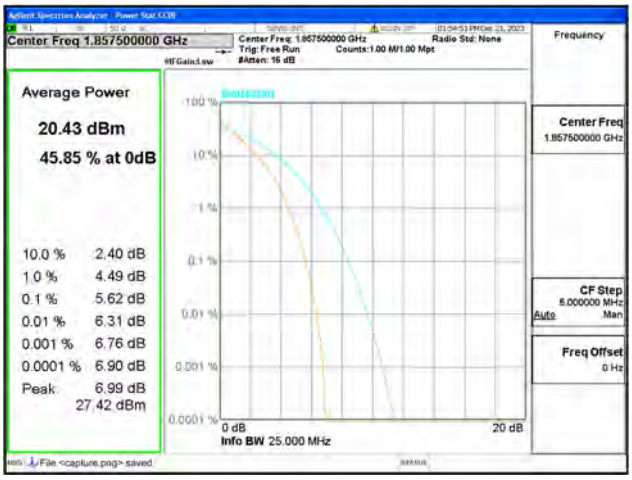
B2 / 10MHz / High CH / QPSK



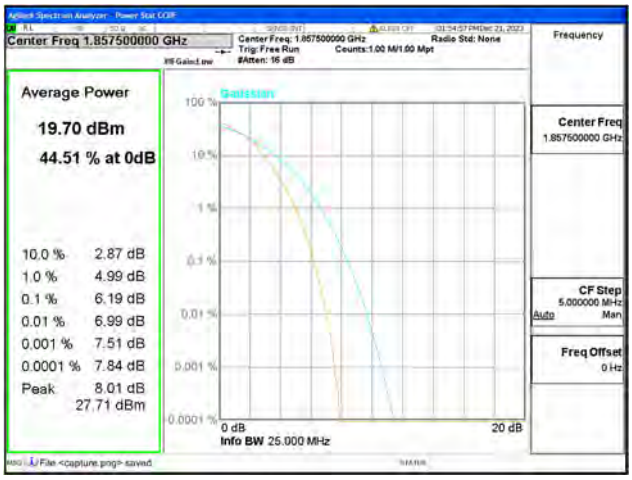
B2 / 10MHz / High CH / 64QAM



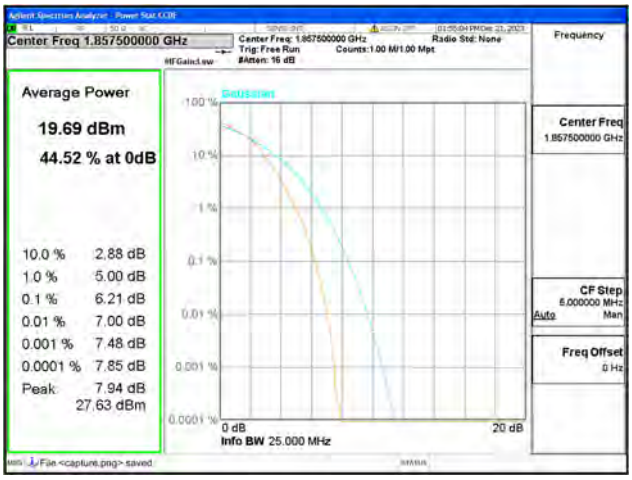
B2 / 10MHz / High CH / 16QAM



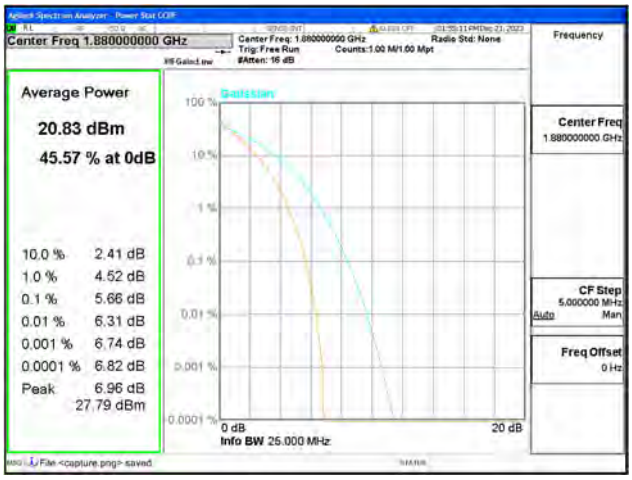
B2 / 15MHz / Low CH / QPSK



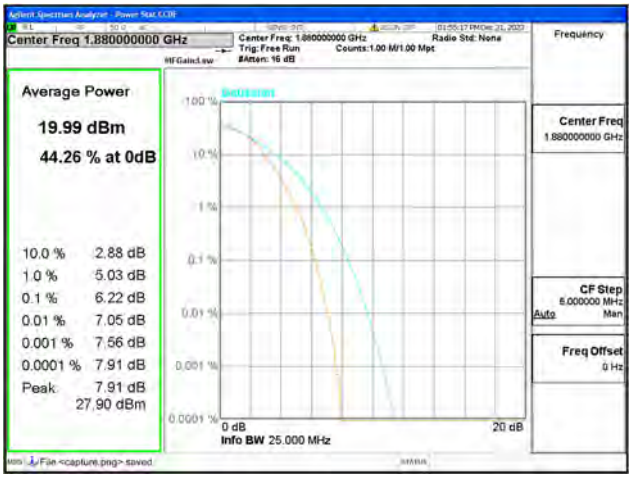
B2 / 15MHz / Low CH / 64QAM



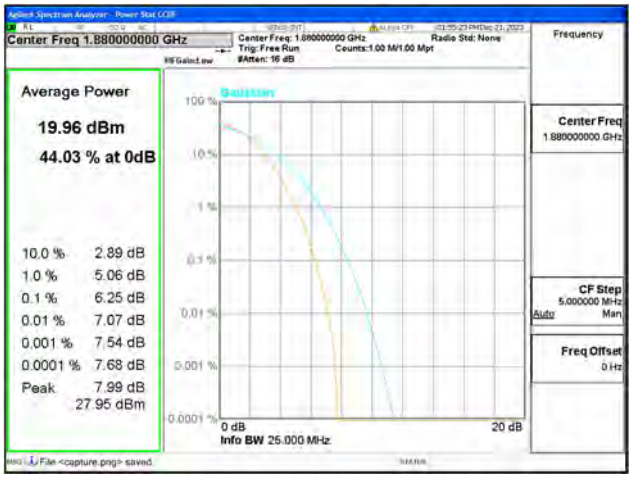
B2 / 15MHz / Low CH / 16QAM



B2 / 15MHz / Mid CH / QPSK

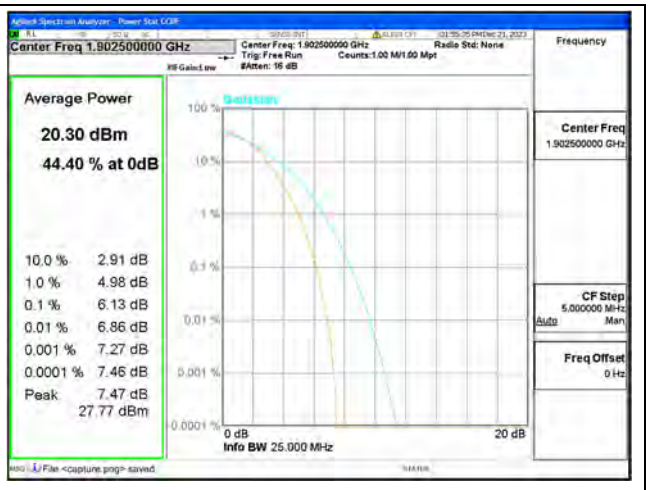


B2 / 15MHz / Mid CH / 64QAM

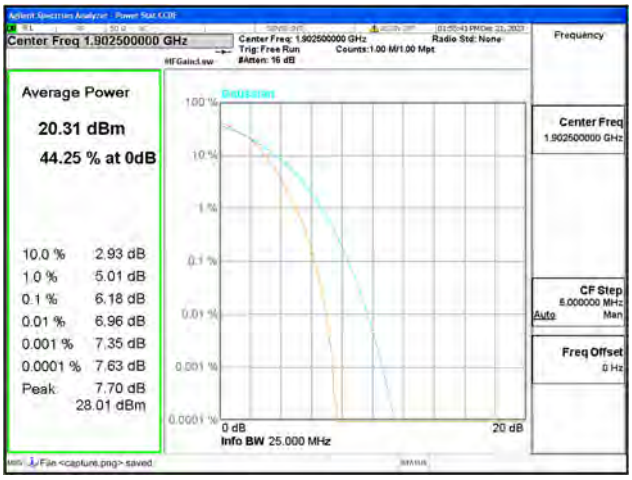


B2 / 15MHz / Mid CH / 16QAM

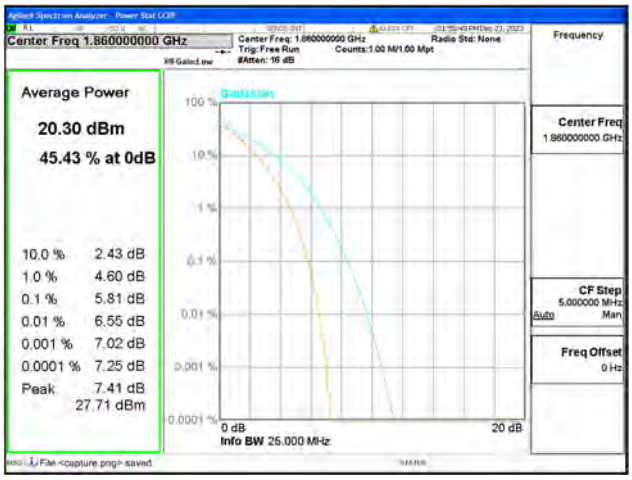
B2 / 15MHz / High CH / QPSK



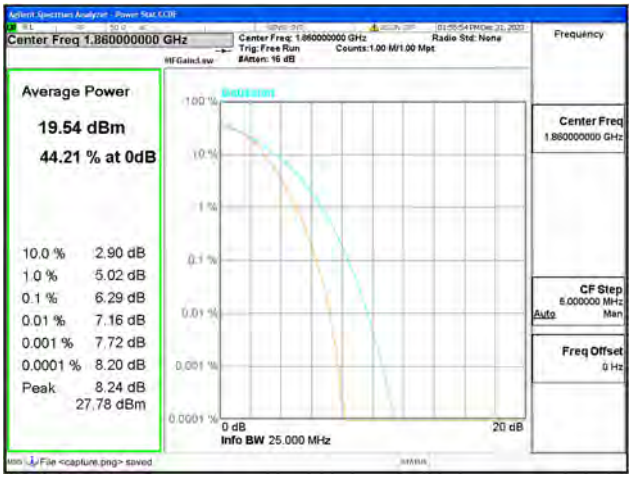
B2 / 15MHz / High CH / 64QAM



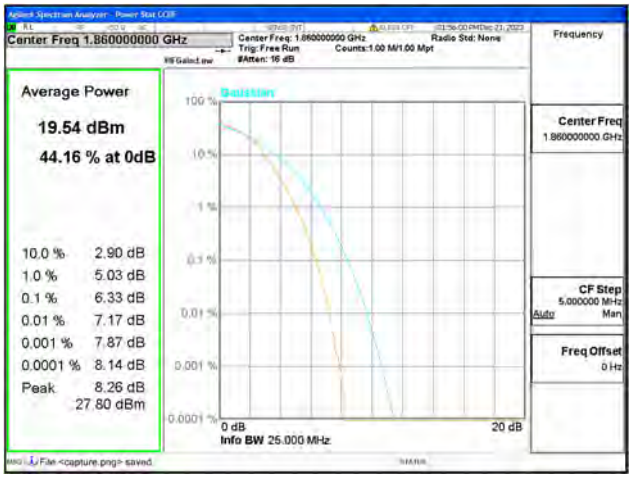
B2 / 15MHz / High CH / 16QAM



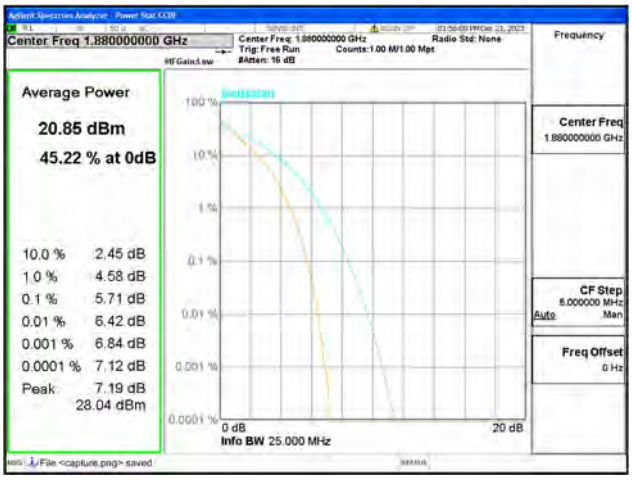
B2 / 20MHz / Low CH / QPSK



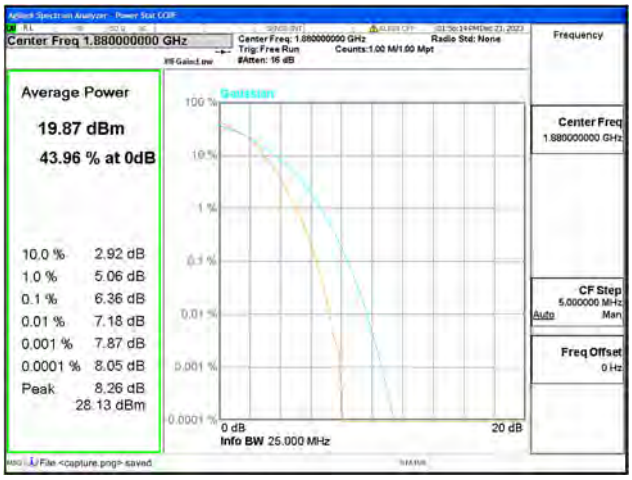
B2 / 20MHz / Low CH / 64QAM



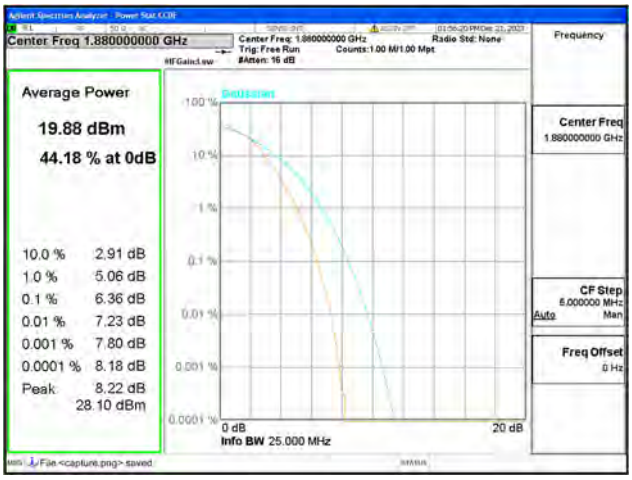
B2 / 20MHz / Low CH / 16QAM



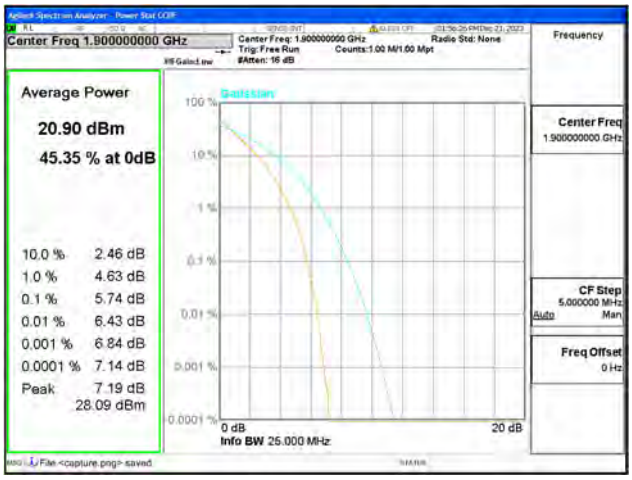
B2 / 20MHz / Mid CH / QPSK



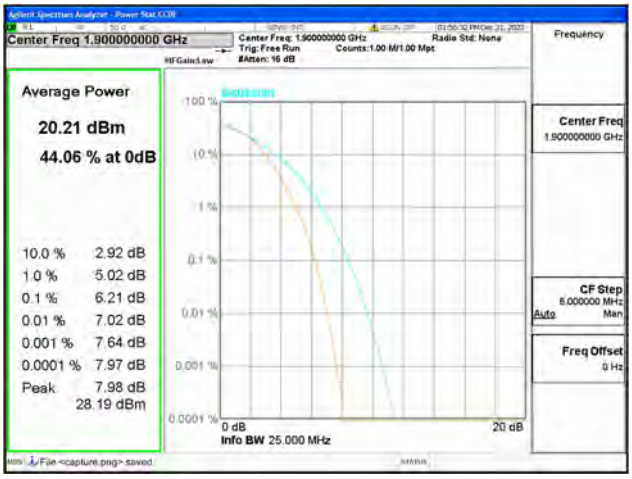
B2 / 20MHz / Mid CH / 64QAM



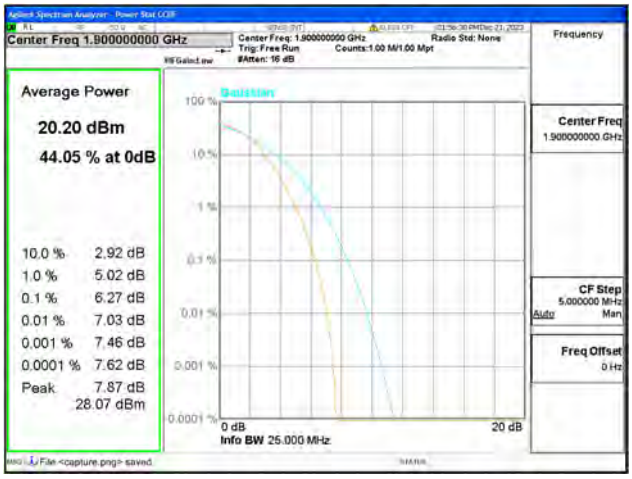
B2 / 20MHz / Mid CH / 16QAM



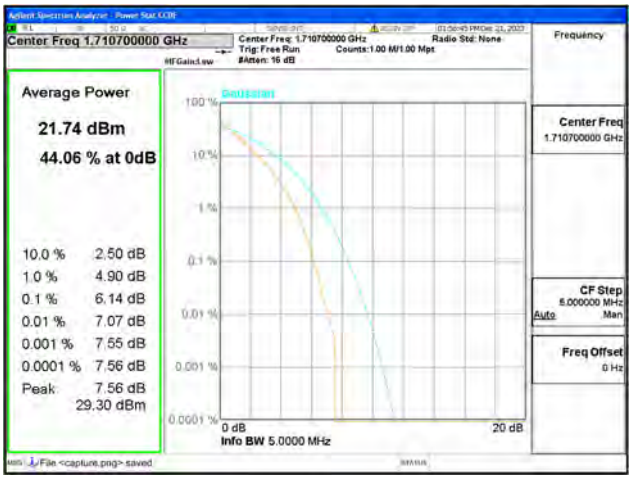
B2 / 20MHz / High CH / QPSK



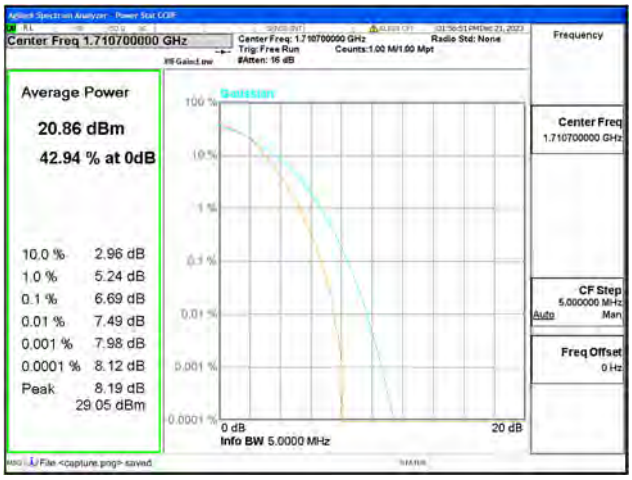
B2 / 20MHz / High CH / 64QAM



B2 / 20MHz / High CH / 16QAM

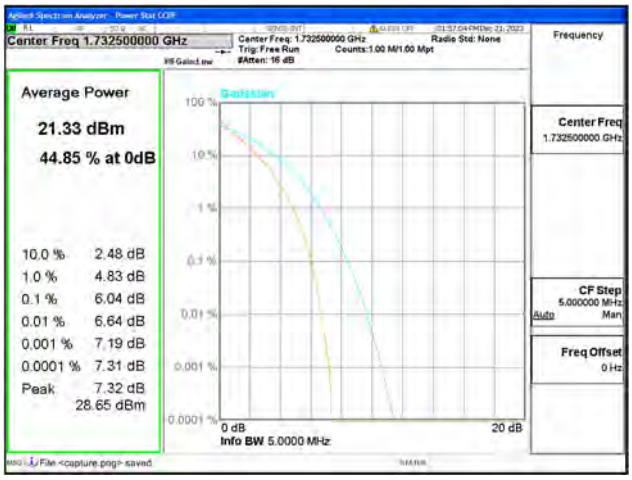


B4 / 1.4MHz / Low CH / QPSK

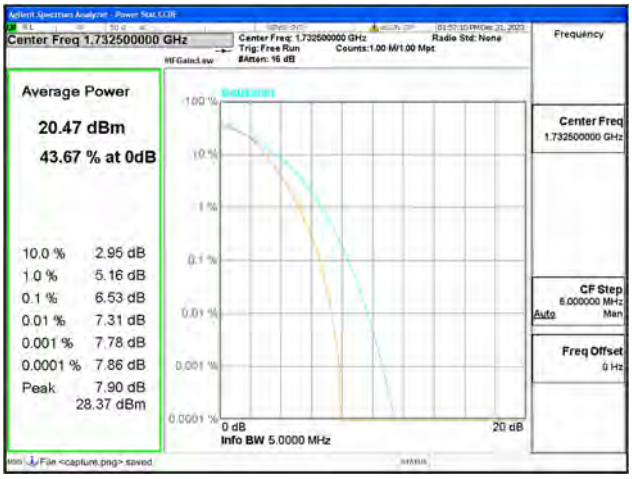


B4 / 1.4MHz / Low CH / 64QAM

B4 / 1.4MHz / Low CH / 16QAM

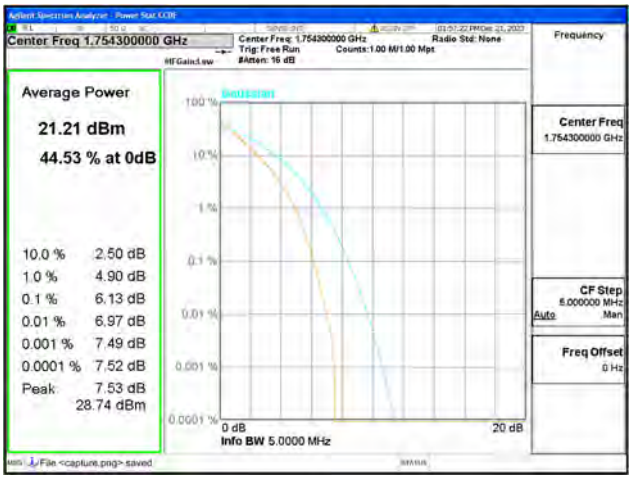


B4 / 1.4MHz / Mid CH / QPSK

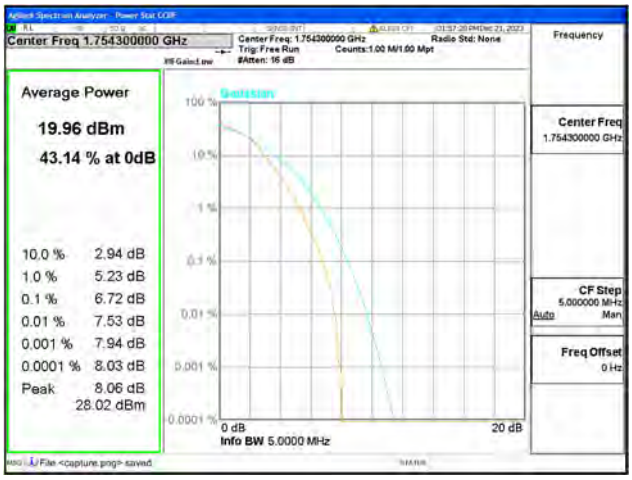


B4 / 1.4MHz / Mid CH / 64QAM

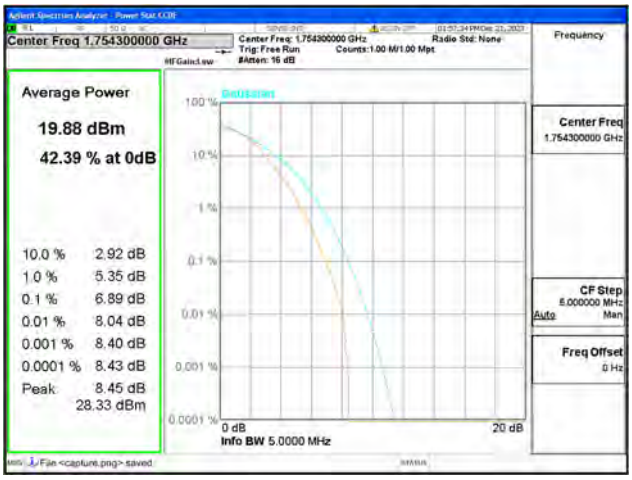
B4 / 1.4MHz / Mid CH / 16QAM



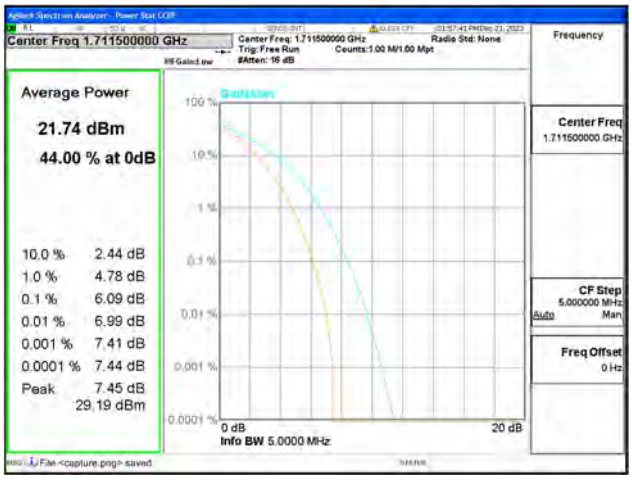
B4 / 1.4MHz / High CH / QPSK



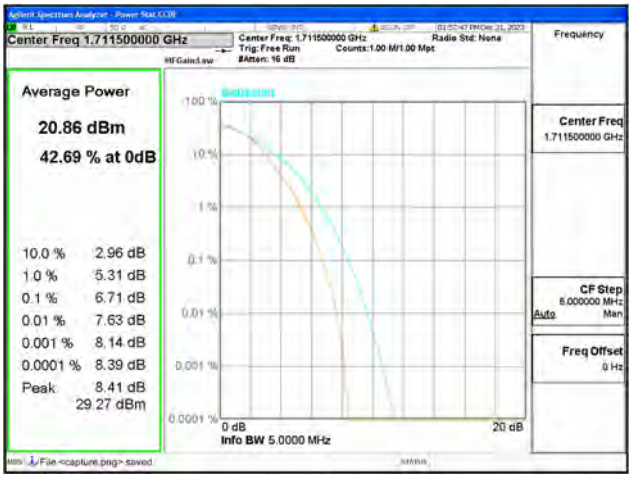
B4 / 1.4MHz / High CH / 64QAM



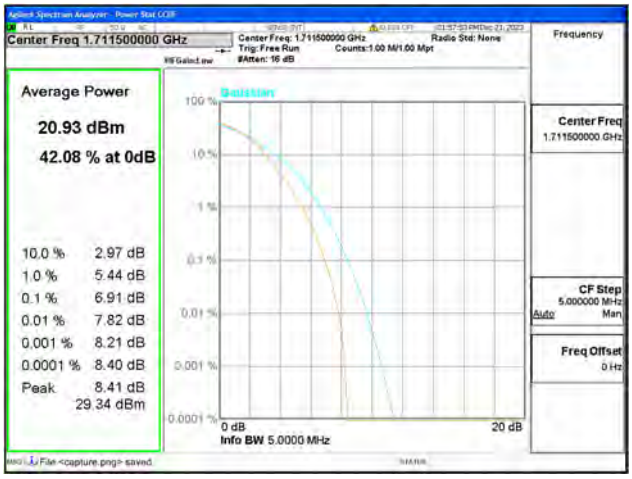
B4 / 1.4MHz / High CH / 16QAM



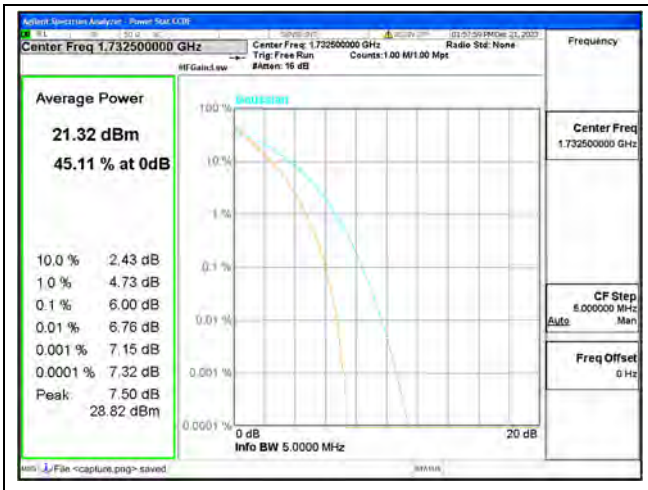
B4 / 3MHz / Low CH / QPSK



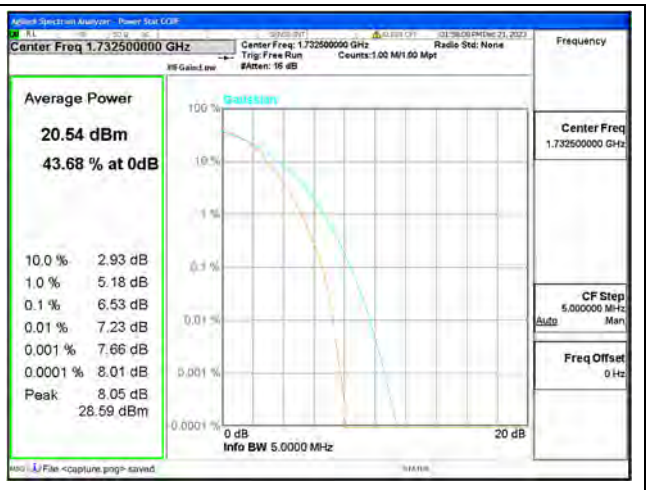
B4 / 3MHz / Low CH / 64QAM



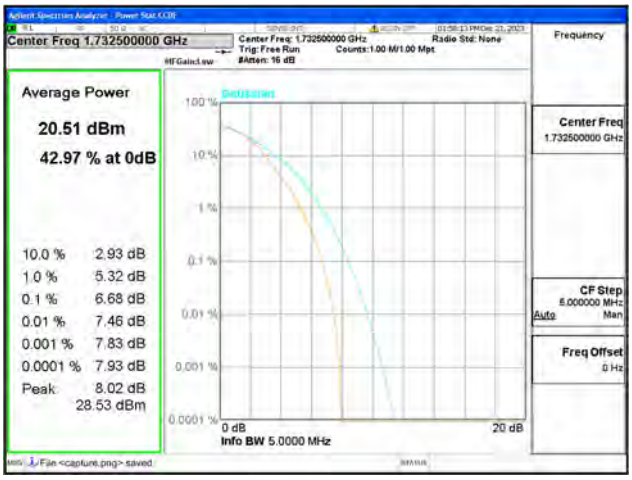
B4 / 3MHz / Low CH / 16QAM



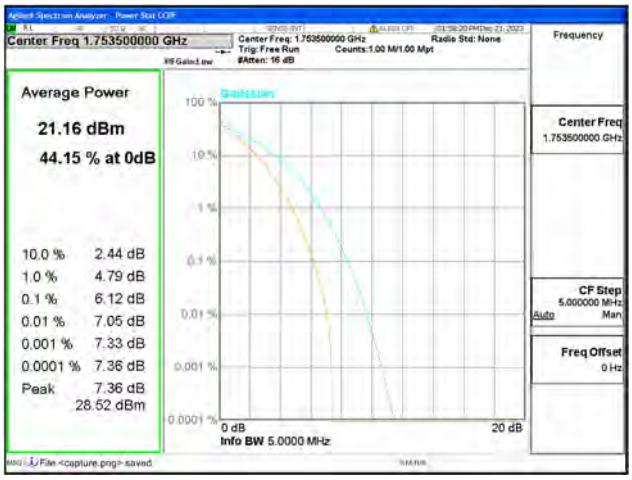
B4 / 3MHz / Mid CH / QPSK



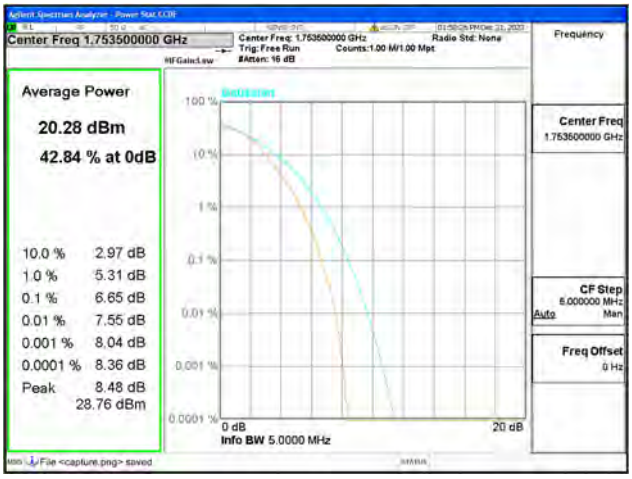
B4 / 3MHz / Mid CH / 64QAM



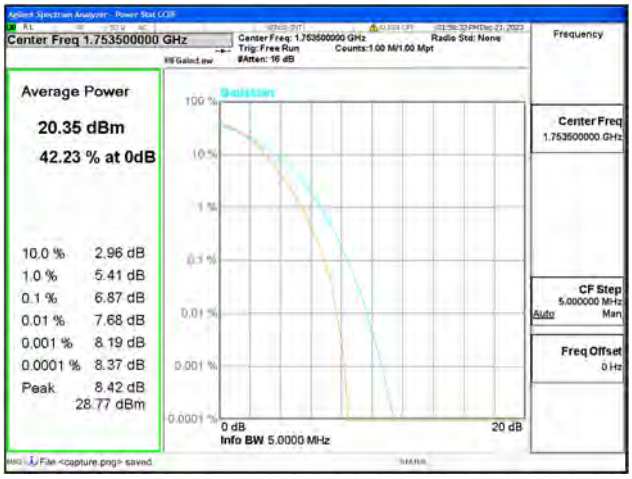
B4 / 3MHz / Mid CH / 16QAM



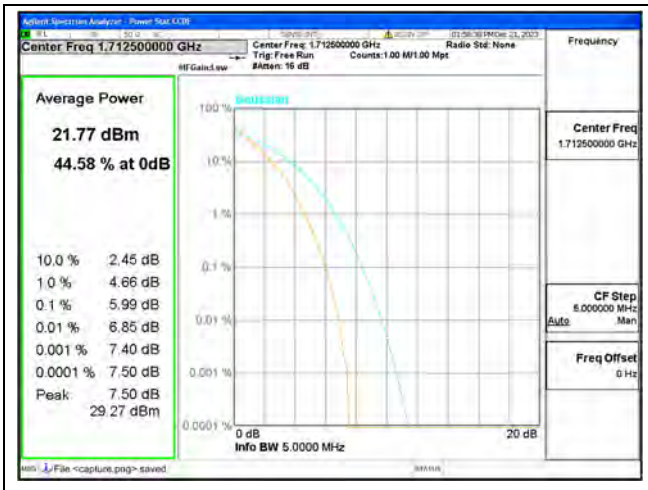
B4 / 3MHz / High CH / QPSK



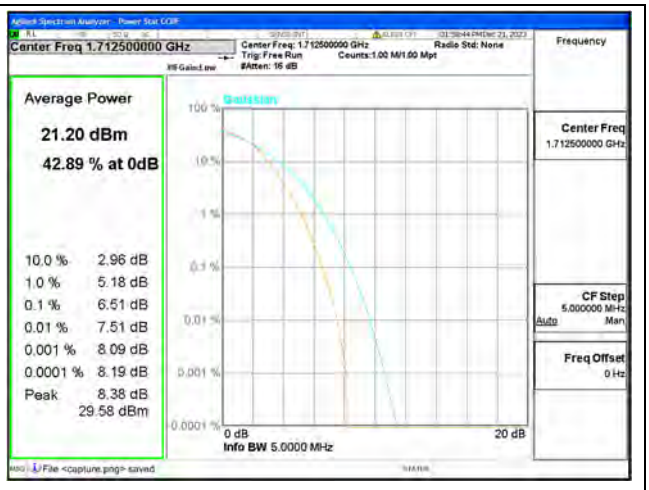
B4 / 3MHz / High CH / 64QAM



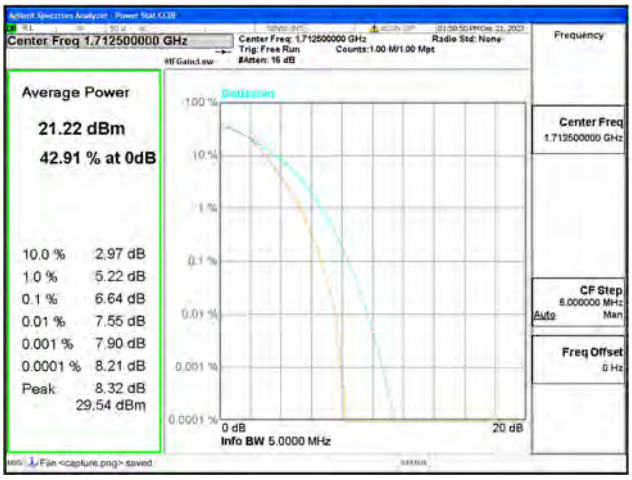
B4 / 3MHz / High CH / 16QAM



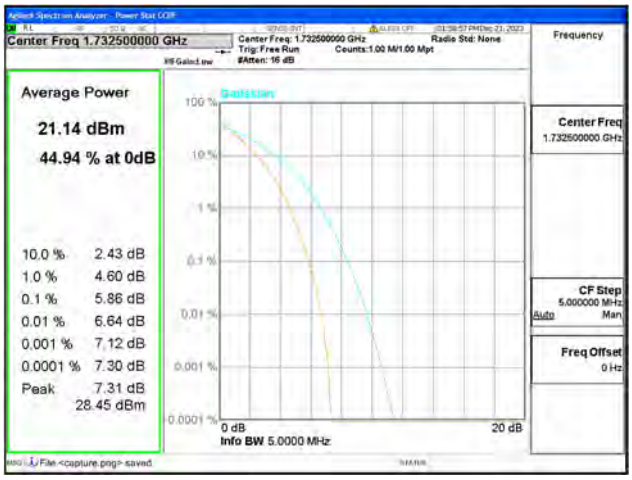
B4 / 5MHz / Low CH / QPSK



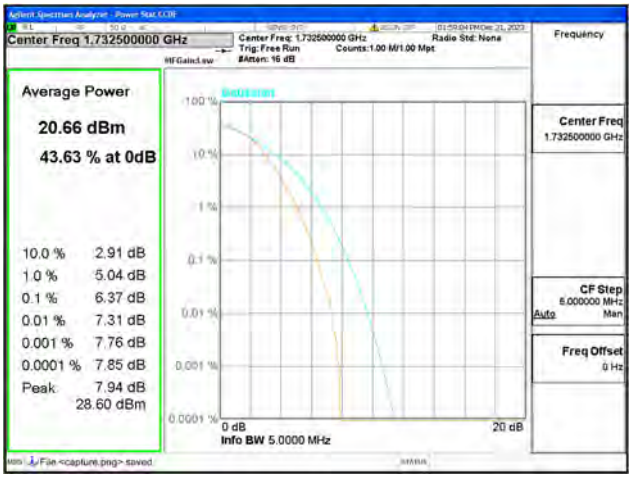
B4 / 5MHz / Low CH / 64QAM



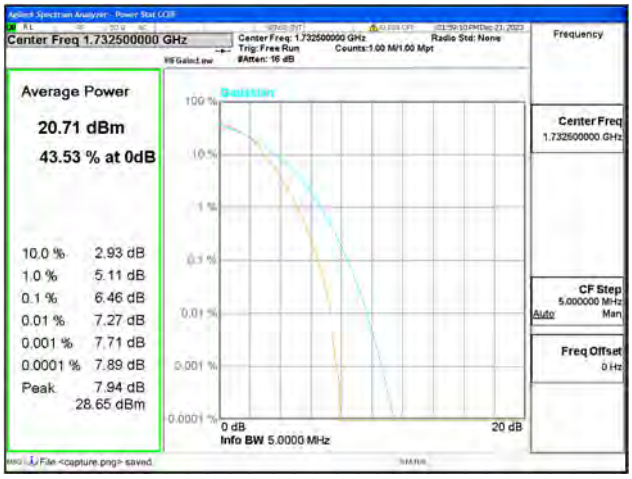
B4 / 5MHz / Low CH / 16QAM



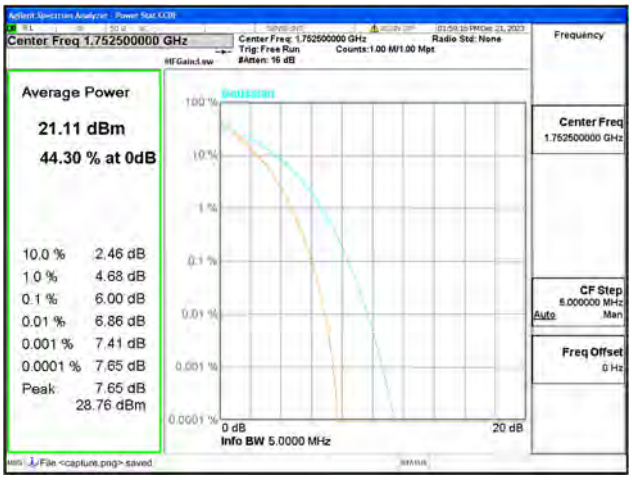
B4 / 5MHz / Mid CH / QPSK



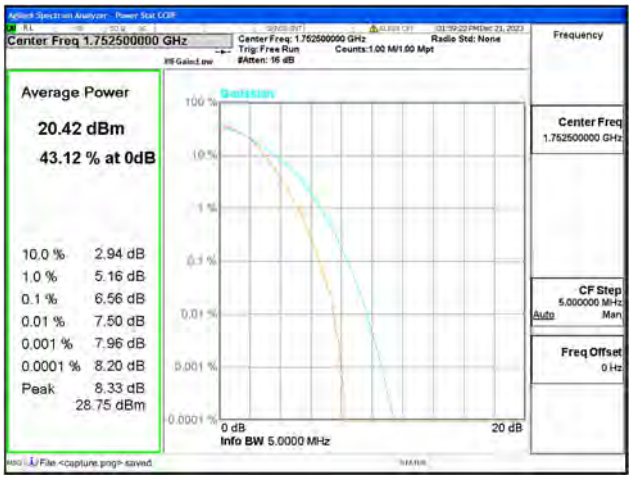
B4 / 5MHz / Mid CH / 64QAM



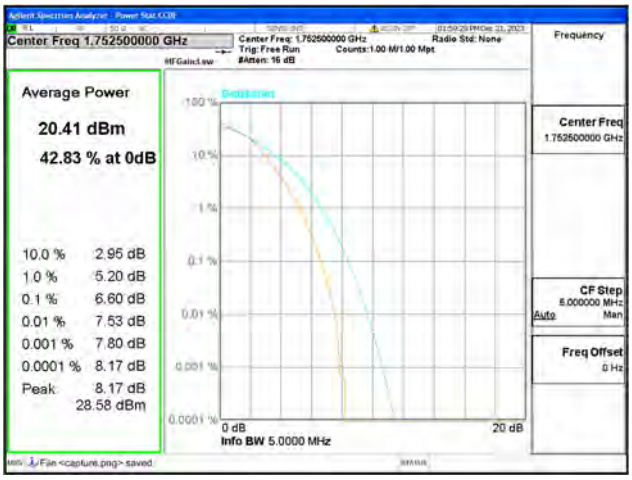
B4 / 5MHz / Mid CH / 16QAM



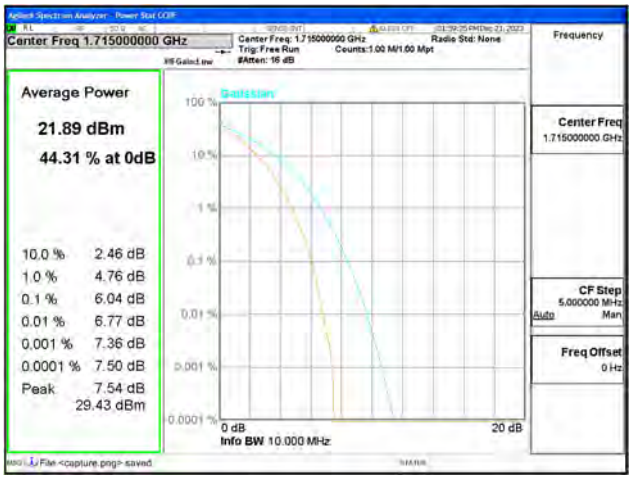
B4 / 5MHz / High CH / QPSK



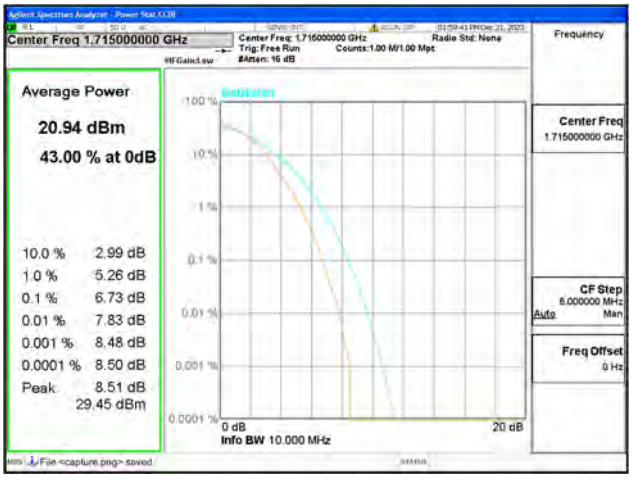
B4 / 5MHz / High CH / 64QAM



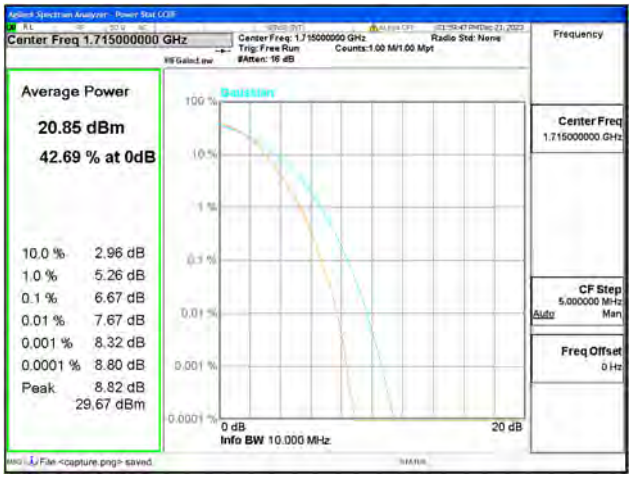
B4 / 5MHz / High CH / 16QAM



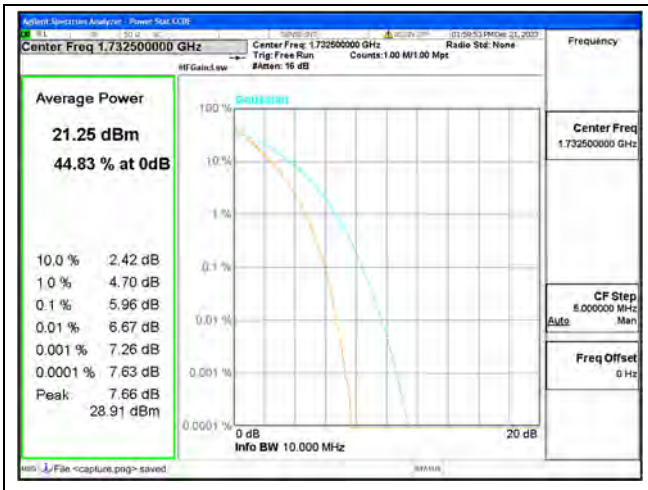
B4 / 10MHz / Low CH / QPSK



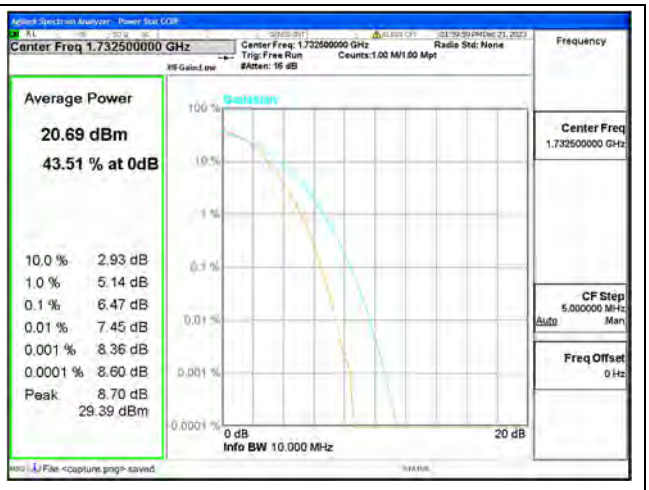
B4 / 10MHz / Low CH / 64QAM



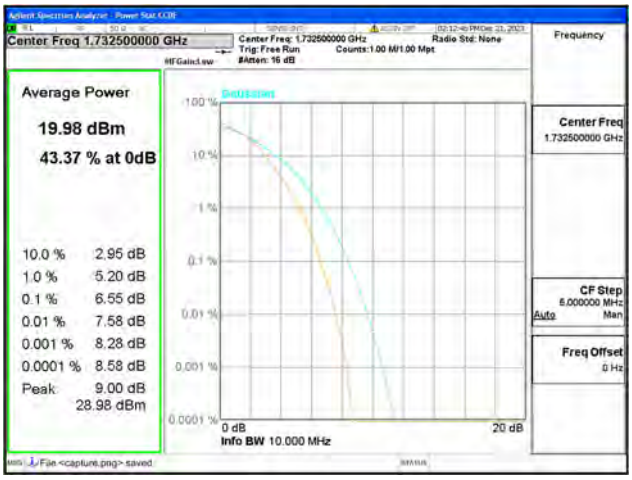
B4 / 10MHz / Low CH / 16QAM



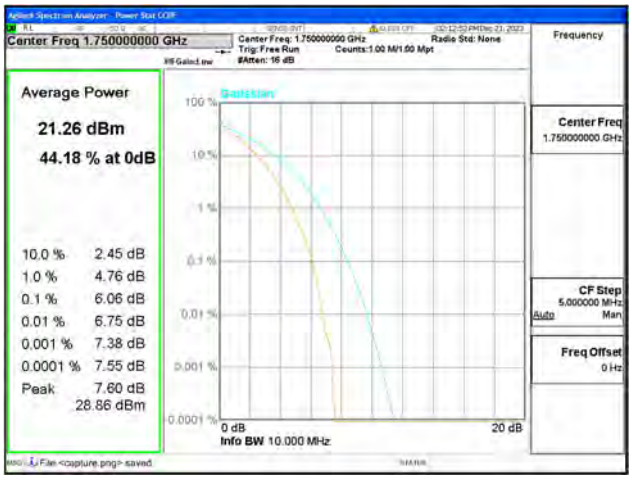
B4 / 10MHz / Mid CH / QPSK



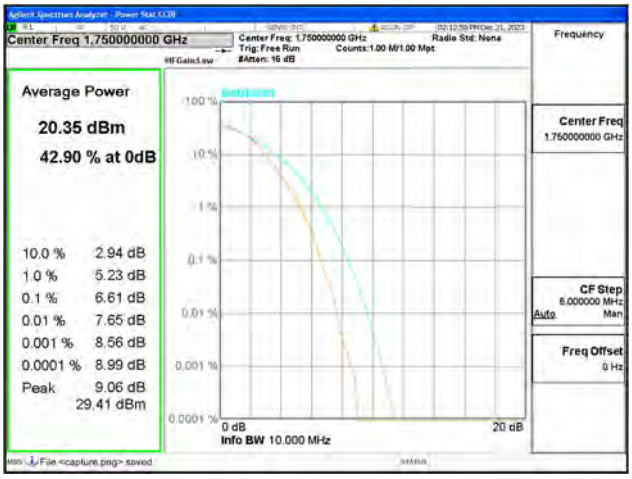
B4 / 10MHz / Mid CH / 64QAM



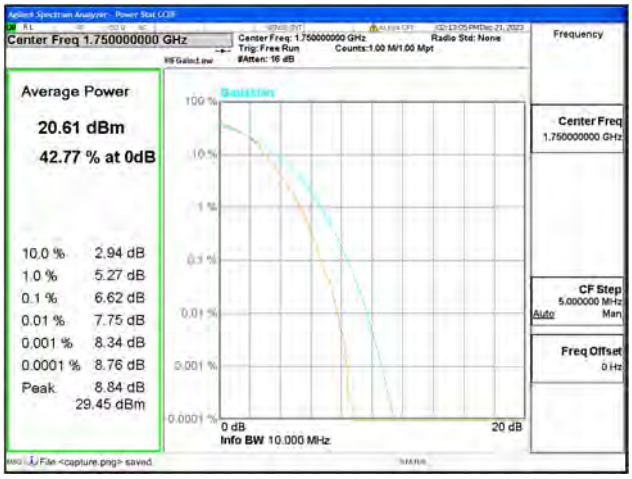
B4 / 10MHz / Mid CH / 16QAM



B4 / 10MHz / High CH / QPSK

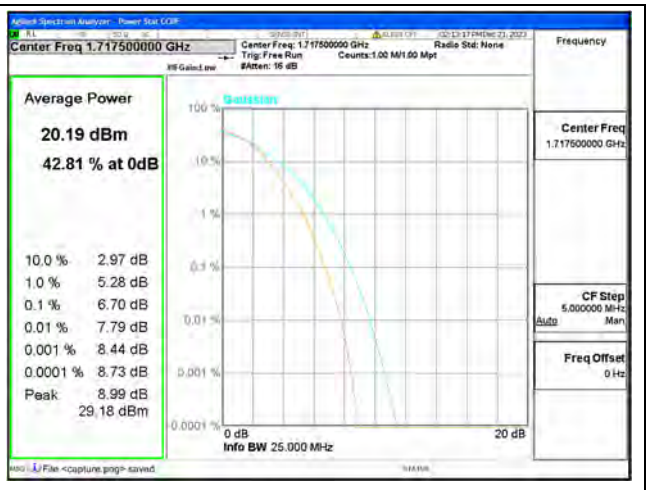


B4 / 10MHz / High CH / 64QAM



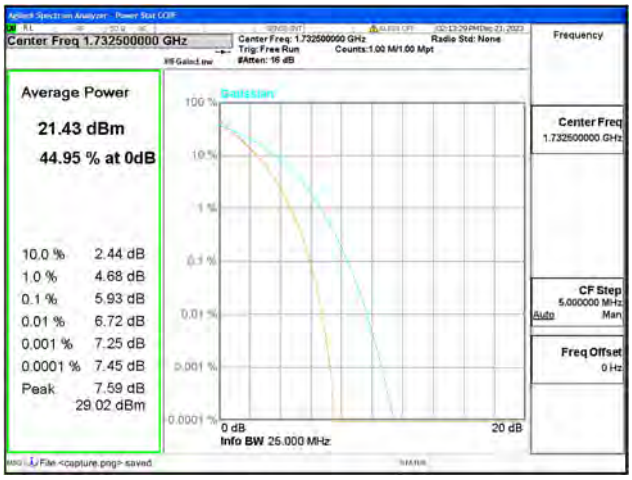
B4 / 10MHz / High CH / 16QAM

B4 / 15MHz / Low CH / QPSK

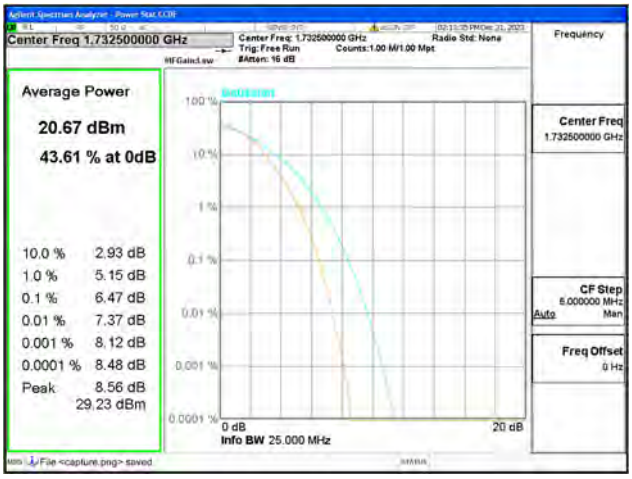


B4 / 15MHz / Low CH / 64QAM

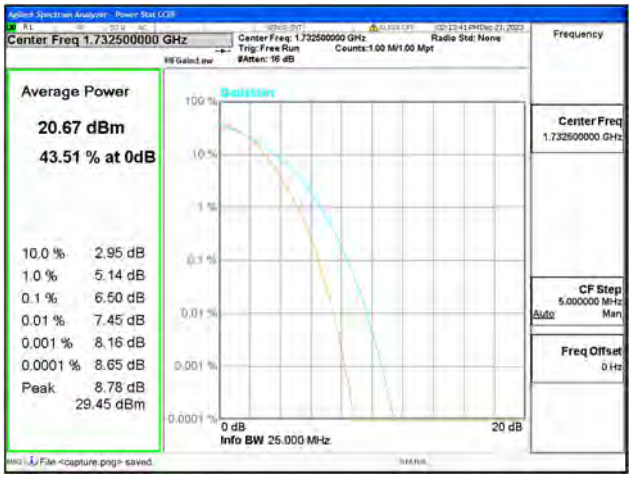
B4 / 15MHz / Low CH / 16QAM



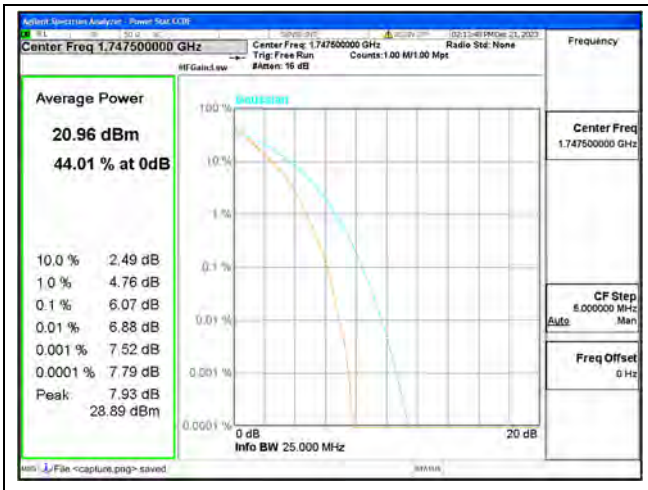
B4 / 15MHz / Mid CH / QPSK



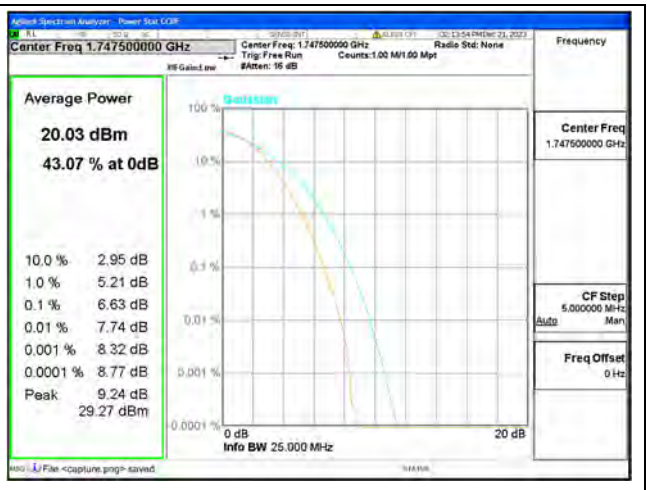
B4 / 15MHz / Mid CH / 64QAM



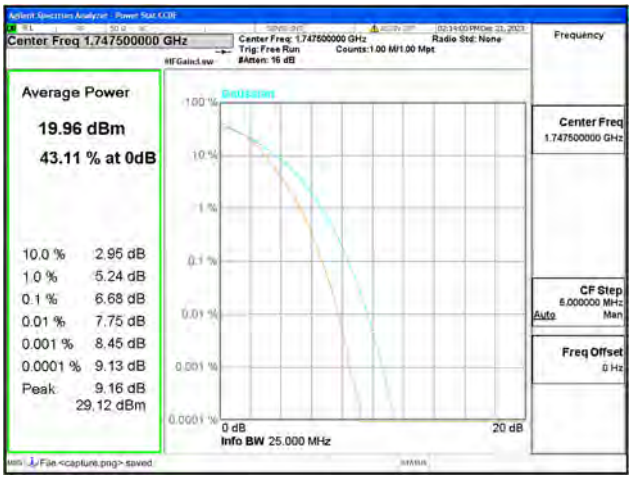
B4 / 15MHz / Mid CH / 16QAM



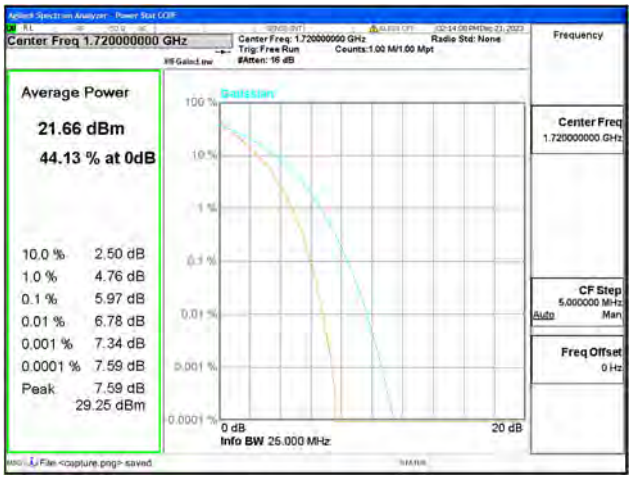
B4 / 15MHz / High CH / QPSK



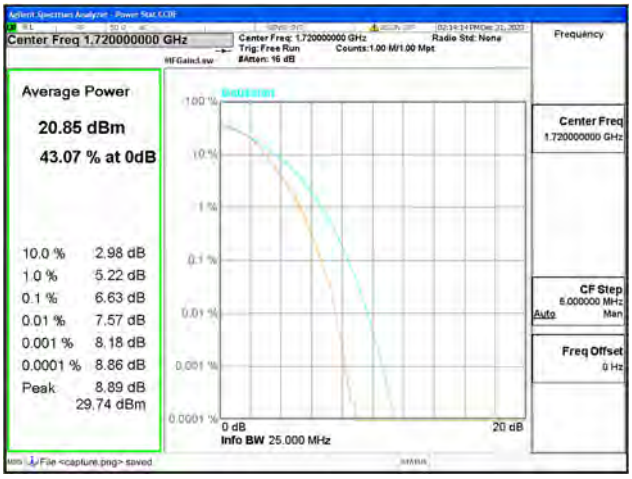
B4 / 15MHz / High CH / 64QAM



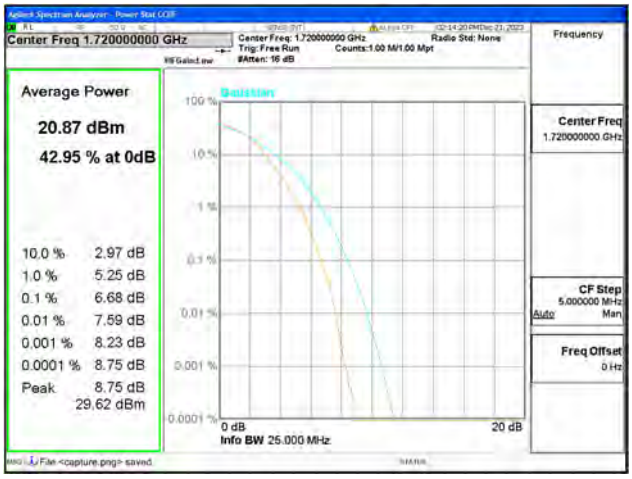
B4 / 15MHz / High CH / 16QAM



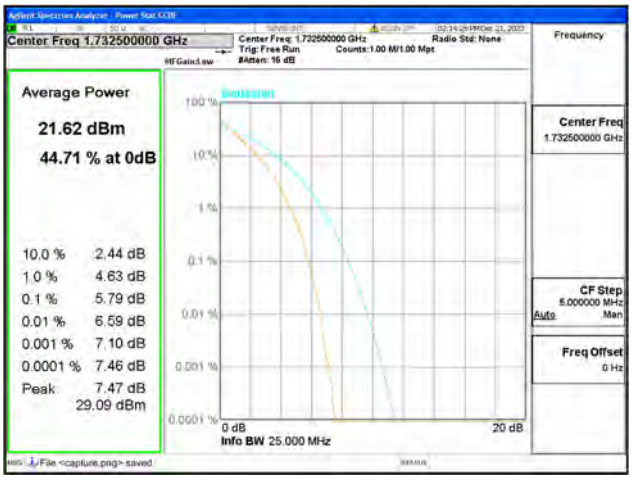
B4 / 20MHz / Low CH / QPSK



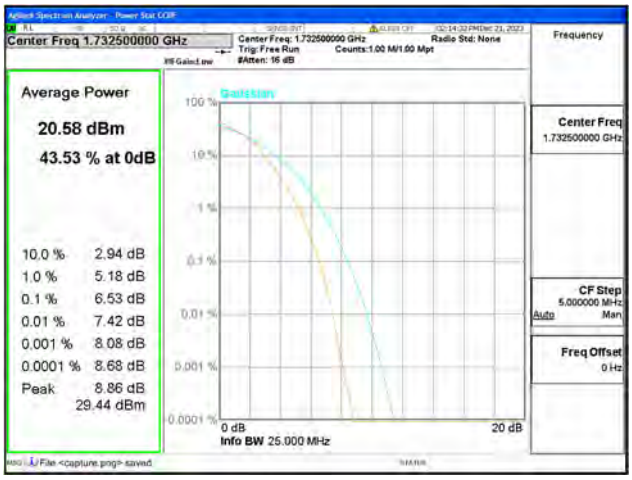
B4 / 20MHz / Low CH / 64QAM



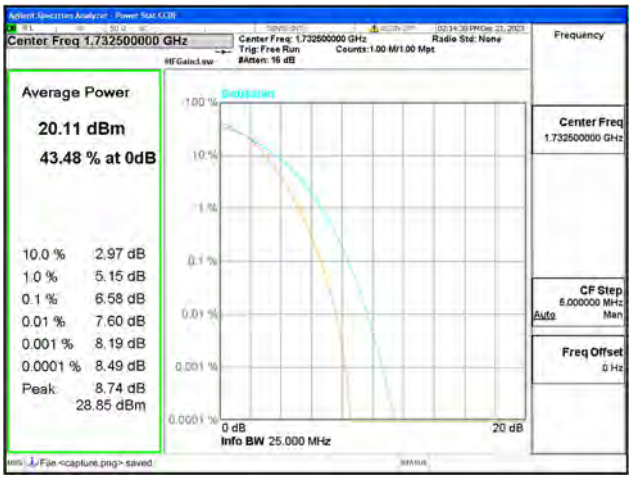
B4 / 20MHz / Low CH / 16QAM



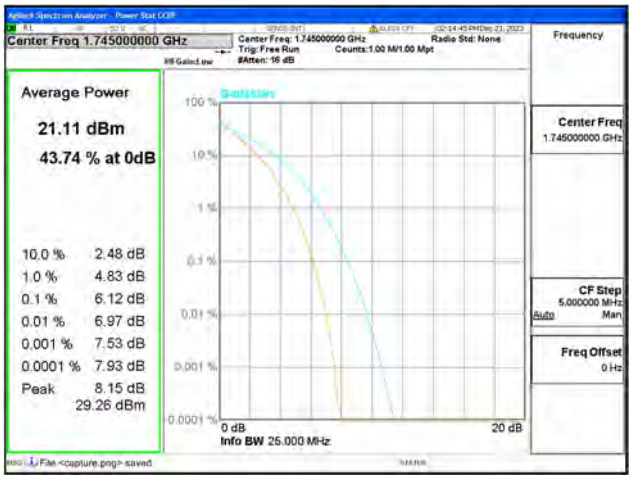
B4 / 20MHz / Mid CH / QPSK



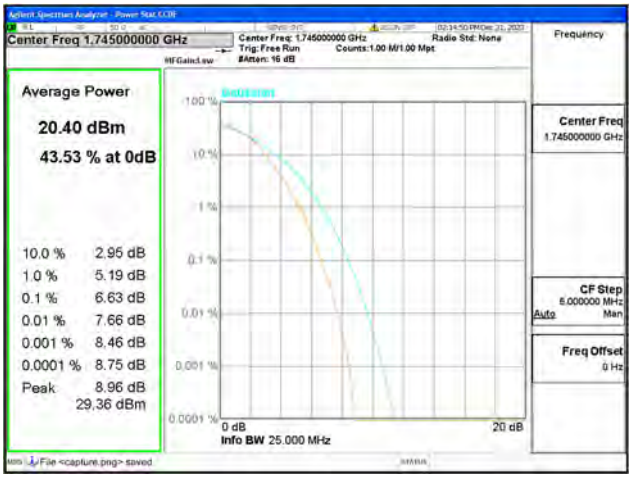
B4 / 20MHz / Mid CH / 64QAM



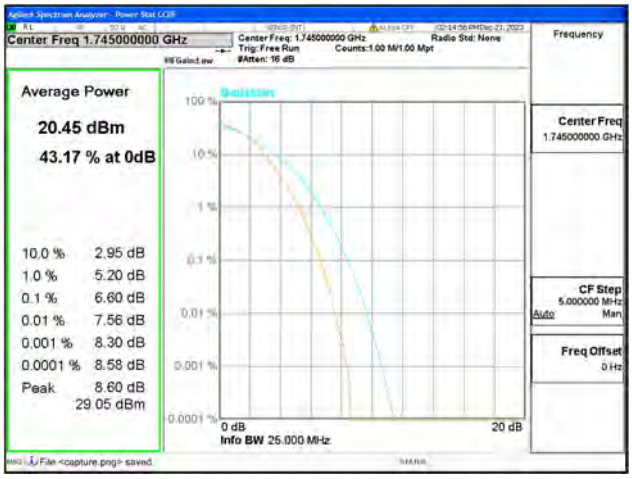
B4 / 20MHz / Mid CH / 16QAM



B4 / 20MHz / High CH / QPSK



B4 / 20MHz / High CH / 64QAM



B4 / 20MHz / High CH / 16QAM

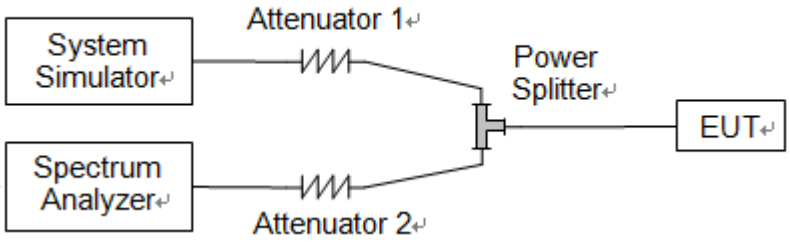
2.5. Conducted Spurious Emissions

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.

Additional requirement for LTE Band 7, 38:
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 55 + 10 log(P) dB. This calculated to be -25dBm.

2.5.2. Test Description

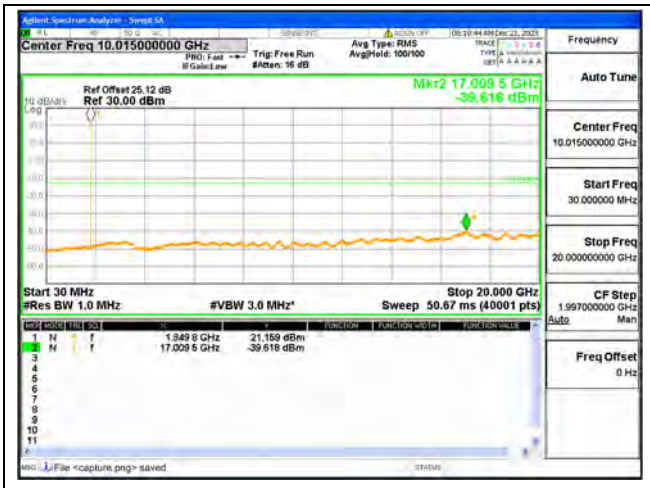


The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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

2.5.3. Test Procedure

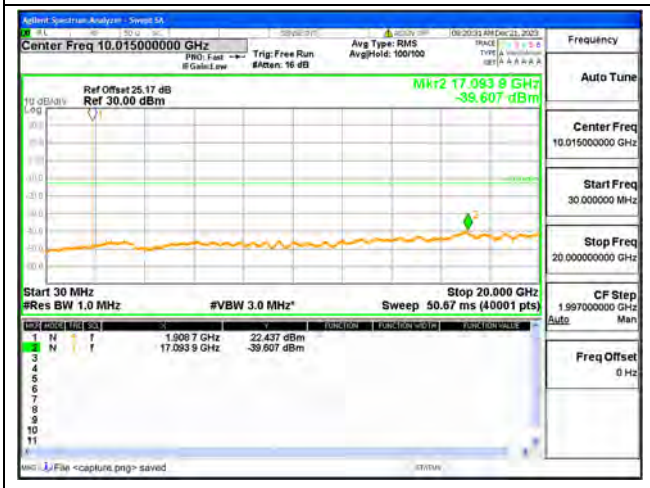
KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.5.4. Test Result



B2 / 1.4MHz / Low CH / QPSK

B2 / 1.4MHz / Mid CH / QPSK

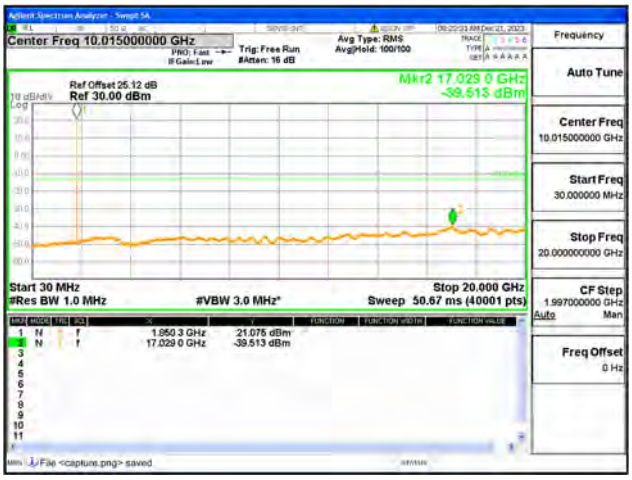


B2 / 1.4MHz / High CH / QPSK

B2 / 3MHz / Low CH / QPSK

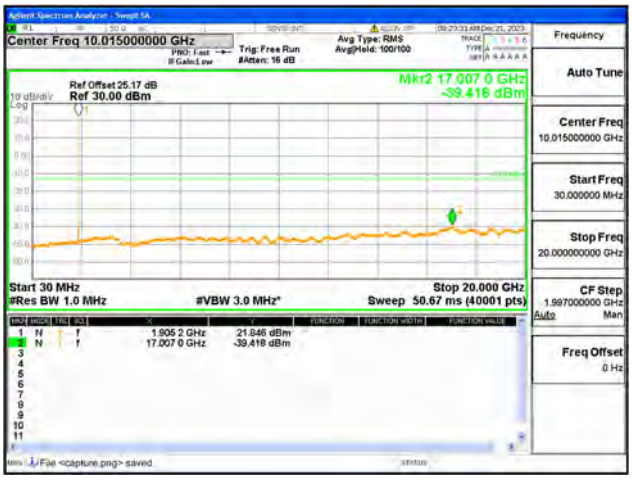
B2 / 3MHz / Mid CH / QPSK

B2 / 3MHz / High CH / QPSK



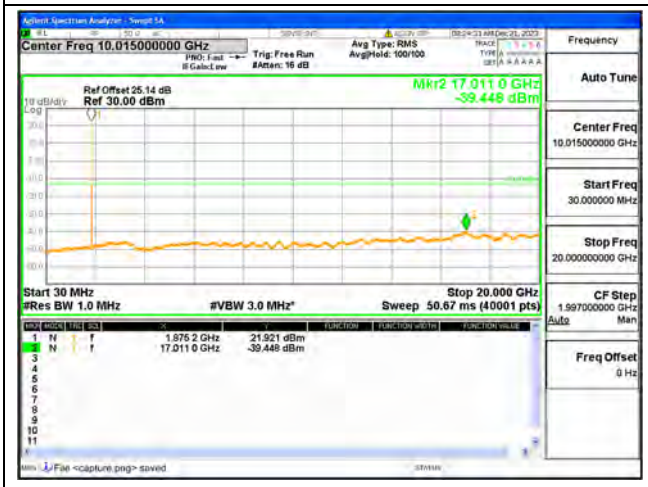
B2 / 5MHz / Low CH / QPSK

B2 / 5MHz / Mid CH / QPSK



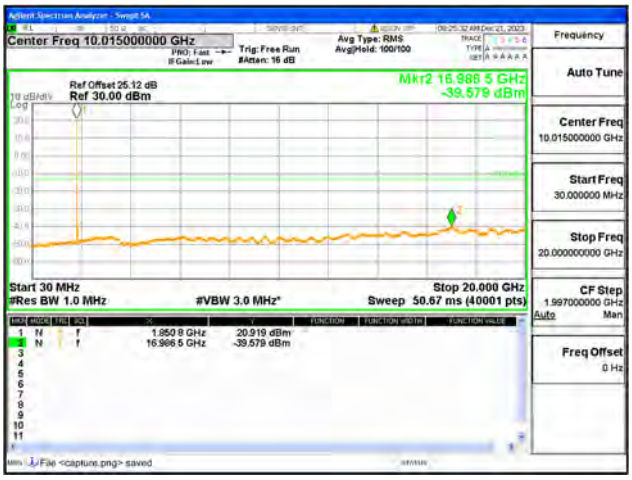
B2 / 5MHz / High CH / QPSK

B2 / 10MHz / Low CH / QPSK



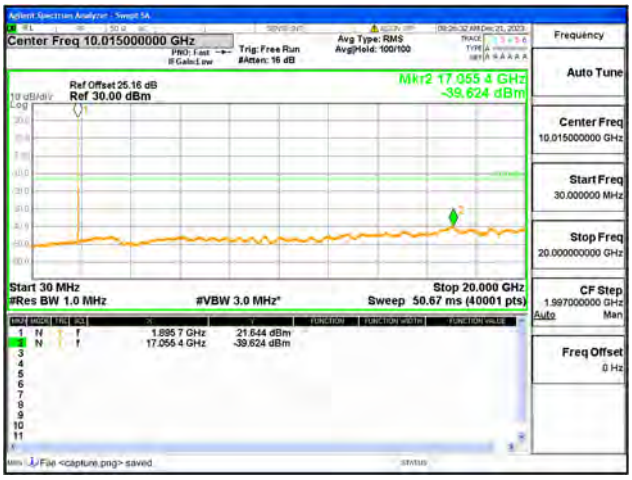
B2 / 10MHz / Mid CH / QPSK

B2 / 10MHz / High CH / QPSK



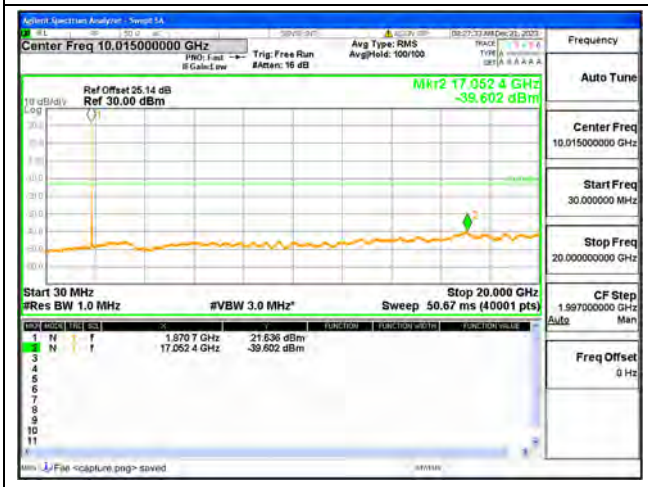
B2 / 15MHz / Low CH / QPSK

B2 / 15MHz / Mid CH / QPSK



B2 / 15MHz / High CH / QPSK

B2 / 20MHz / Low CH / QPSK



B2 / 20MHz / Mid CH / QPSK

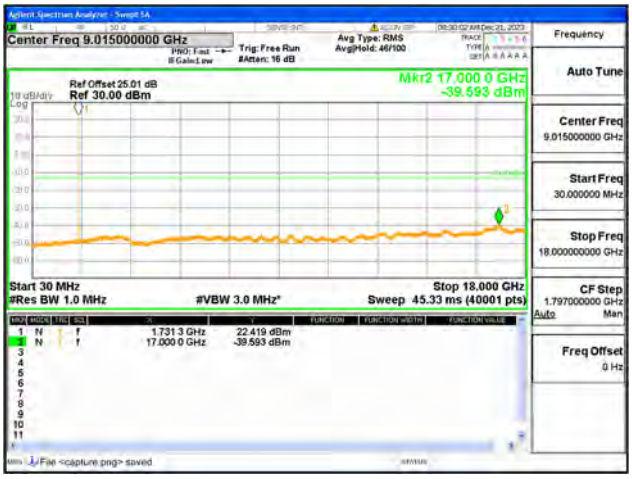
B2 / 20MHz / High CH / QPSK

B4 / 1.4MHz / Low CH / QPSK

B4 / 1.4MHz / Mid CH / QPSK

B4 / 1.4MHz / High CH / QPSK

B4 / 3MHz / Low CH / QPSK



B4 / 3MHz / Mid CH / QPSK

B4 / 3MHz / High CH / QPSK

B4 / 5MHz / Low CH / QPSK

B4 / 5MHz / Mid CH / QPSK

B4 / 5MHz / High CH / QPSK

B4 / 10MHz / Low CH / QPSK

B4 / 10MHz / Mid CH / QPSK

B4 / 10MHz / High CH / QPSK