



Band71 / 10MHz / QPSK/ Mid CH



Band71 / 10MHz / 16QAM/ Mid CH



Band71 / 10MHz / 64QAM/ Mid CH



Band71 / 10MHz / QPSK/ High CH



Band71 / 10MHz / 16QAM/ High CH



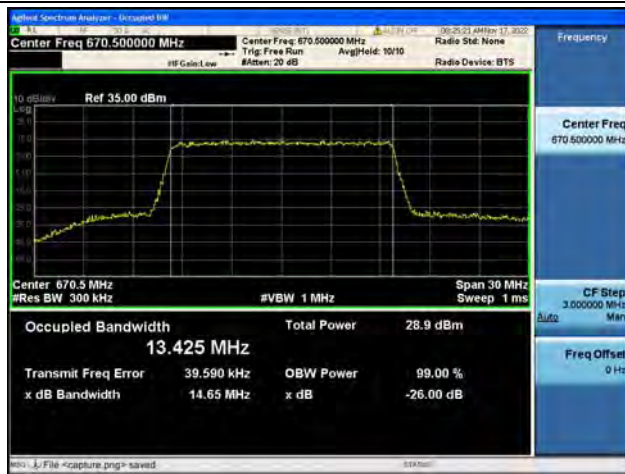
Band71 / 10MHz / 64QAM/ High CH



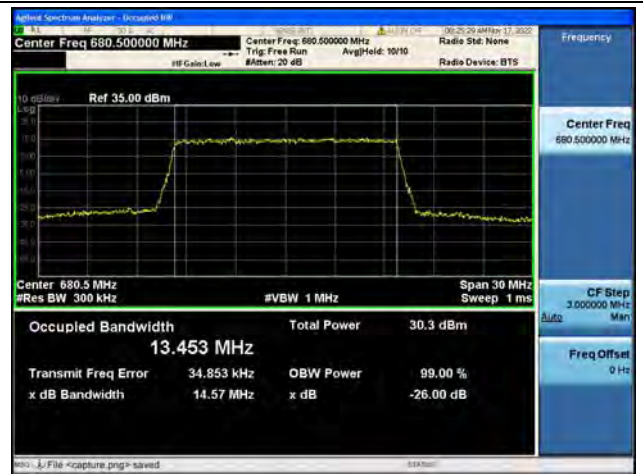
Band71 / 15MHz / QPSK/ Low CH



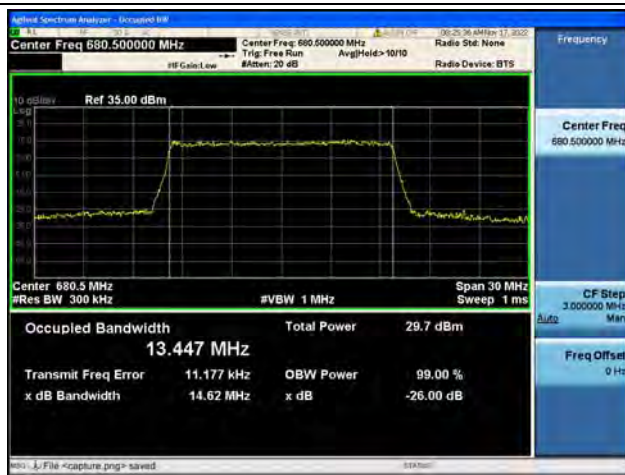
Band71 / 15MHz / 16QAM/ Low CH



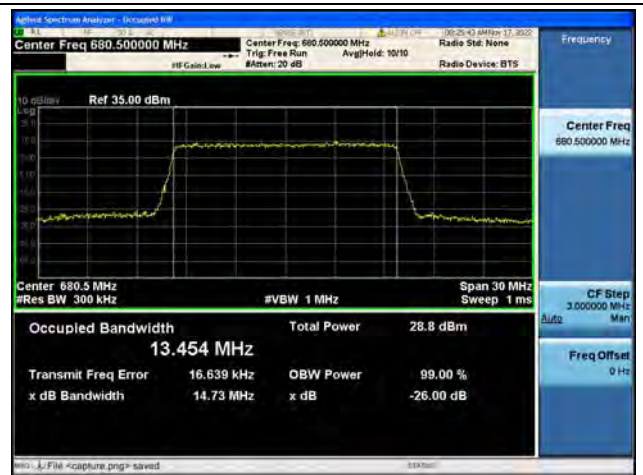
Band71 / 15MHz / 64QAM/ Low CH



Band71 / 15MHz / QPSK/ Mid CH



Band71 / 15MHz / 16QAM/ Mid CH



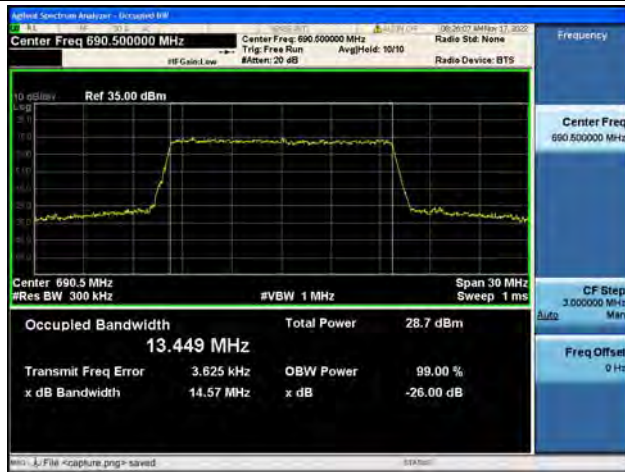
Band71 / 15MHz / 64QAM/ Mid CH



Band71 / 15MHz / QPSK/ High CH



Band71 / 15MHz / 16QAM/ High CH



Band71 / 15MHz / 64QAM/ High CH



Band71 / 20MHz / QPSK/ Low CH



Band71 / 20MHz / 16QAM/ Low CH



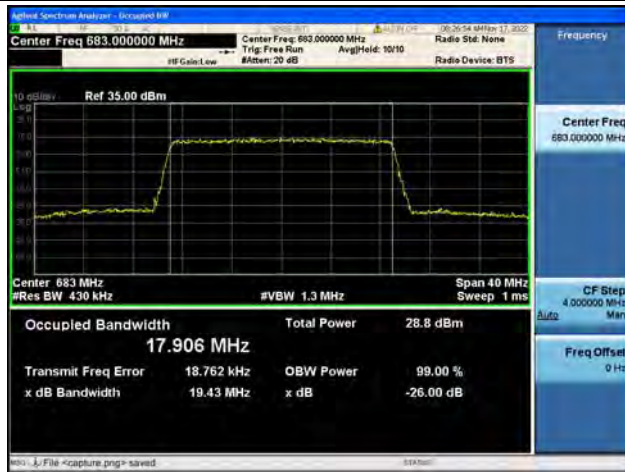
Band71 / 20MHz / 64QAM/ Low CH



Band71 / 20MHz / QPSK/ Mid CH



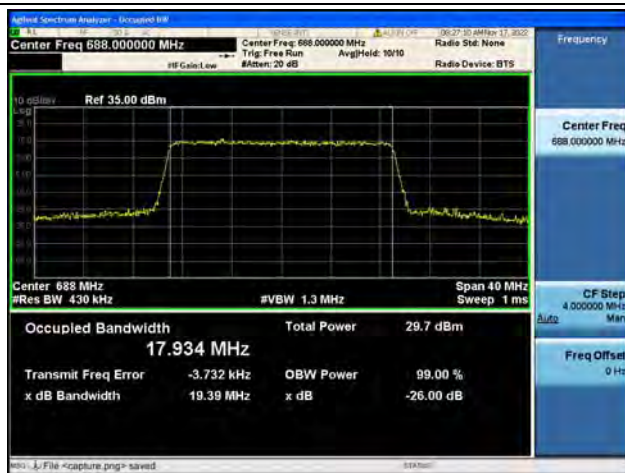
Band71 / 20MHz / 16QAM/ Mid CH



Band71 / 20MHz / 64QAM/ Mid CH



Band71 / 20MHz / QPSK/ High CH



Band71 / 20MHz / 16QAM/ High CH



Band71 / 20MHz / 64QAM/ High CH

2.3. Frequency Stability

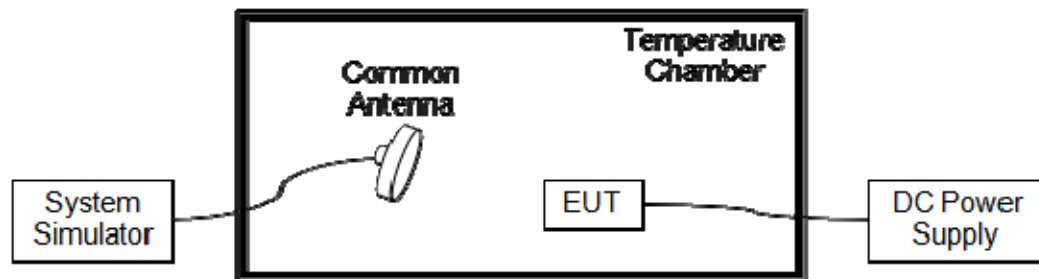
2.3.1. Requirement

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 $+50^{\circ}\text{C}$ 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 60°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 3.7V, 4.2V and 3.4V, 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	3.70	+20(Ref)	-39	-0.021	PASS
100		-10	27	0.014	
100		0	29	0.015	
100		+10	33	0.018	
100		+20	26	0.014	
100		+30	54	0.029	
100		+40	44	0.023	
100		+50	-24	-0.013	
100		+60	-29	-0.015	
115	4.20	+20	34	0.018	PASS
85	3.40	+20	-19	-0.010	

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	3.70	+20(Ref)	28	0.016	PASS
100		-10	36	0.021	
100		0	22	0.013	
100		+10	-25	-0.014	
100		+20	46	0.027	
100		+30	18	0.010	
100		+40	-49	-0.028	
100		+50	-59	-0.034	
100		+60	33	0.019	
115	4.20	+20	-14	-0.008	PASS
85	3.40	+20	-52	-0.030	



LTE Band 5, QPSK, Channel 20525, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.70	+20(Ref)	-49	-0.059	PASS
100		-10	49	0.059	
100		0	22	0.026	
100		+10	-24	-0.029	
100		+20	41	0.049	
100		+30	-33	-0.039	
100		+40	44	0.053	
100		+50	-42	-0.050	
100		+60	52	0.062	
115	4.20	+20	39	0.047	PASS
85	3.40	+20	20	0.024	

LTE Band 7, QPSK, Channel 21100, Frequency 2535MHz Limit= Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.70	+20(Ref)	-16	-0.006	PASS
100		-10	-58	-0.023	
100		0	40	0.016	
100		+10	15	0.006	
100		+20	-25	-0.010	
100		+30	-49	-0.019	
100		+40	-21	-0.008	
100		+50	37	0.015	
100		+60	17	0.007	
115	4.20	+20	32	0.013	PASS
85	3.40	+20	16	0.006	



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	3.70	+20(Ref)	-16	-0.023	PASS
100		-10	42	0.059	
100		0	31	0.044	
100		+10	44	0.062	
100		+20	27	0.038	
100		+30	-13	-0.018	
100		+40	41	0.058	
100		+50	34	0.048	
100		+60	47	0.066	
115	4.20	+20	19	0.027	PASS
85	3.40	+20	48	0.068	

LTE Band 17, QPSK, Channel 23790, Frequency 710MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.70	+20(Ref)	-44	-0.062	PASS
100		-10	-51	-0.072	
100		0	56	0.079	
100		+10	29	0.041	
100		+20	39	0.055	
100		+30	35	0.049	
100		+40	-30	-0.042	
100		+50	49	0.069	
100		+60	16	0.023	
115	4.20	+20	20	0.028	PASS
85	3.40	+20	-31	-0.044	



LTE Band 66, QPSK, Channel 132322, Frequency 1745MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.70	+20(Ref)	-44	-0.062	PASS
100		-10	-51	-0.072	
100		0	56	0.079	
100		+10	29	0.041	
100		+20	39	0.055	
100		+30	35	0.049	
100		+40	-30	-0.042	
100		+50	49	0.069	
100		+60	16	0.023	
115	4.20	+20	20	0.028	
85	3.40	+20	-31	-0.044	

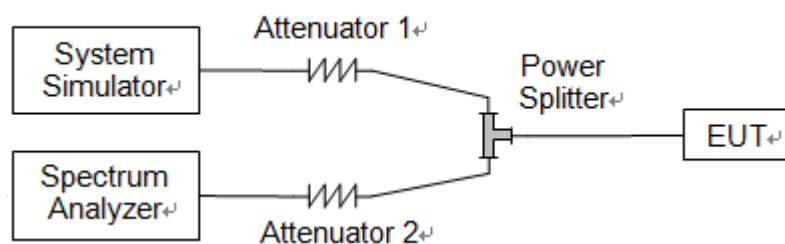
LTE Band 71, QPSK, Channel 133322, Frequency 683.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.70	+20(Ref)	21	0.031	PASS
100		-10	24	0.035	
100		0	52	0.076	
100		+10	-38	-0.056	
100		+20	29	0.042	
100		+30	-35	-0.051	
100		+40	42	0.061	
100		+50	15	0.022	
100		+60	-38	-0.056	
115	4.20	+20	-17	-0.025	
85	3.40	+20	-29	-0.042	

2.4. Peak to Average Ratio

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	5.19	<=13	PASS
	Low	16QAM	6.13	<=13	PASS
	Low	64QAM	6.00	<=13	PASS
	Mid	QPSK	5.24	<=13	PASS
	Mid	16QAM	6.12	<=13	PASS
	Mid	64QAM	5.93	<=13	PASS
	High	QPSK	4.79	<=13	PASS
	High	16QAM	5.68	<=13	PASS
	High	64QAM	5.55	<=13	PASS
3	Low	QPSK	5.28	<=13	PASS
	Low	16QAM	6.04	<=13	PASS
	Low	64QAM	5.97	<=13	PASS
	Mid	QPSK	5.37	<=13	PASS
	Mid	16QAM	6.14	<=13	PASS
	Mid	64QAM	6.01	<=13	PASS
	High	QPSK	4.86	<=13	PASS
	High	16QAM	5.57	<=13	PASS
	High	64QAM	5.56	<=13	PASS
5	Low	QPSK	5.37	<=13	PASS
	Low	16QAM	5.95	<=13	PASS
	Low	64QAM	5.92	<=13	PASS
	Mid	QPSK	5.44	<=13	PASS
	Mid	16QAM	6.09	<=13	PASS
	Mid	64QAM	6.04	<=13	PASS
	High	QPSK	5.12	<=13	PASS
	High	16QAM	5.65	<=13	PASS
	High	64QAM	5.66	<=13	PASS
10	Low	QPSK	5.11	<=13	PASS
	Low	16QAM	5.99	<=13	PASS
	Low	64QAM	6.00	<=13	PASS
	Mid	QPSK	5.58	<=13	PASS
	Mid	16QAM	6.20	<=13	PASS
	Mid	64QAM	6.16	<=13	PASS
	High	QPSK	5.12	<=13	PASS
	High	16QAM	5.75	<=13	PASS
	High	64QAM	5.76	<=13	PASS





15	Low	QPSK	5.00	<=13	PASS
	Low	16QAM	5.72	<=13	PASS
	Low	64QAM	5.66	<=13	PASS
	Mid	QPSK	5.39	<=13	PASS
	Mid	16QAM	6.08	<=13	PASS
	Mid	64QAM	6.04	<=13	PASS
	High	QPSK	4.85	<=13	PASS
	High	16QAM	5.52	<=13	PASS
	High	64QAM	5.54	<=13	PASS
20	Low	QPSK	5.08	<=13	PASS
	Low	16QAM	5.79	<=13	PASS
	Low	64QAM	5.78	<=13	PASS
	Mid	QPSK	5.48	<=13	PASS
	Mid	16QAM	6.15	<=13	PASS
	Mid	64QAM	6.17	<=13	PASS
	High	QPSK	5.12	<=13	PASS
	High	16QAM	5.82	<=13	PASS
	High	64QAM	5.82	<=13	PASS



LTE Band 4					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	5.50	<=13	PASS
	Low	16QAM	6.29	<=13	PASS
	Low	64QAM	6.09	<=13	PASS
	Mid	QPSK	5.67	<=13	PASS
	Mid	16QAM	6.46	<=13	PASS
	Mid	64QAM	6.25	<=13	PASS
	High	QPSK	5.46	<=13	PASS
	High	16QAM	6.25	<=13	PASS
	High	64QAM	6.16	<=13	PASS
3	Low	QPSK	5.49	<=13	PASS
	Low	16QAM	6.27	<=13	PASS
	Low	64QAM	6.09	<=13	PASS
	Mid	QPSK	5.66	<=13	PASS
	Mid	16QAM	6.46	<=13	PASS
	Mid	64QAM	6.28	<=13	PASS
	High	QPSK	5.47	<=13	PASS
	High	16QAM	6.28	<=13	PASS
	High	64QAM	6.09	<=13	PASS
5	Low	QPSK	5.56	<=13	PASS
	Low	16QAM	6.06	<=13	PASS
	Low	64QAM	6.13	<=13	PASS
	Mid	QPSK	5.69	<=13	PASS
	Mid	16QAM	6.31	<=13	PASS
	Mid	64QAM	6.19	<=13	PASS
	High	QPSK	5.55	<=13	PASS
	High	16QAM	6.16	<=13	PASS
	High	64QAM	6.08	<=13	PASS
10	Low	QPSK	5.66	<=13	PASS
	Low	16QAM	6.27	<=13	PASS
	Low	64QAM	6.29	<=13	PASS
	Mid	QPSK	5.75	<=13	PASS
	Mid	16QAM	6.35	<=13	PASS
	Mid	64QAM	6.42	<=13	PASS
	High	QPSK	5.70	<=13	PASS
	High	16QAM	6.31	<=13	PASS
	High	64QAM	6.32	<=13	PASS



15	Low	QPSK	5.55	≤ 13	PASS
	Low	16QAM	6.22	≤ 13	PASS
	Low	64QAM	6.19	≤ 13	PASS
	Mid	QPSK	5.63	≤ 13	PASS
	Mid	16QAM	6.29	≤ 13	PASS
	Mid	64QAM	6.24	≤ 13	PASS
	High	QPSK	5.54	≤ 13	PASS
	High	16QAM	6.18	≤ 13	PASS
	High	64QAM	6.17	≤ 13	PASS
20	Low	QPSK	5.68	≤ 13	PASS
	Low	16QAM	6.37	≤ 13	PASS
	Low	64QAM	6.32	≤ 13	PASS
	Mid	QPSK	5.69	≤ 13	PASS
	Mid	16QAM	6.37	≤ 13	PASS
	Mid	64QAM	6.35	≤ 13	PASS
	High	QPSK	5.63	≤ 13	PASS
	High	16QAM	6.32	≤ 13	PASS
	High	64QAM	6.33	≤ 13	PASS





LTE Band 66					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	5.19	<=13	PASS
	Low	16QAM	6.28	<=13	PASS
	Low	64QAM	6.40	<=13	PASS
	Mid	QPSK	5.51	<=13	PASS
	Mid	16QAM	6.42	<=13	PASS
	Mid	64QAM	6.44	<=13	PASS
	High	QPSK	5.59	<=13	PASS
	High	16QAM	6.39	<=13	PASS
	High	64QAM	6.49	<=13	PASS
3	Low	QPSK	5.46	<=13	PASS
	Low	16QAM	6.19	<=13	PASS
	Low	64QAM	6.35	<=13	PASS
	Mid	QPSK	5.52	<=13	PASS
	Mid	16QAM	6.28	<=13	PASS
	Mid	64QAM	6.40	<=13	PASS
	High	QPSK	5.56	<=13	PASS
	High	16QAM	6.33	<=13	PASS
	High	64QAM	6.44	<=13	PASS
5	Low	QPSK	5.49	<=13	PASS
	Low	16QAM	5.93	<=13	PASS
	Low	64QAM	6.38	<=13	PASS
	Mid	QPSK	5.58	<=13	PASS
	Mid	16QAM	6.16	<=13	PASS
	Mid	64QAM	6.42	<=13	PASS
	High	QPSK	5.57	<=13	PASS
	High	16QAM	6.27	<=13	PASS
	High	64QAM	6.43	<=13	PASS
10	Low	QPSK	5.65	<=13	PASS
	Low	16QAM	6.65	<=13	PASS
	Low	64QAM	6.41	<=13	PASS
	Mid	QPSK	5.64	<=13	PASS
	Mid	16QAM	6.29	<=13	PASS
	Mid	64QAM	6.44	<=13	PASS
	High	QPSK	5.64	<=13	PASS
	High	16QAM	6.31	<=13	PASS
	High	64QAM	6.43	<=13	PASS



15	Low	QPSK	5.48	≤ 13	PASS
	Low	16QAM	6.17	≤ 13	PASS
	Low	64QAM	6.41	≤ 13	PASS
	Mid	QPSK	5.51	≤ 13	PASS
	Mid	16QAM	6.19	≤ 13	PASS
	Mid	64QAM	6.44	≤ 13	PASS
	High	QPSK	5.51	≤ 13	PASS
	High	16QAM	6.16	≤ 13	PASS
	High	64QAM	6.40	≤ 13	PASS
20	Low	QPSK	5.59	≤ 13	PASS
	Low	16QAM	6.30	≤ 13	PASS
	Low	64QAM	6.50	≤ 13	PASS
	Mid	QPSK	5.61	≤ 13	PASS
	Mid	16QAM	6.28	≤ 13	PASS
	Mid	64QAM	6.48	≤ 13	PASS
	High	QPSK	5.58	≤ 13	PASS
	High	16QAM	6.24	≤ 13	PASS
	High	64QAM	6.46	≤ 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



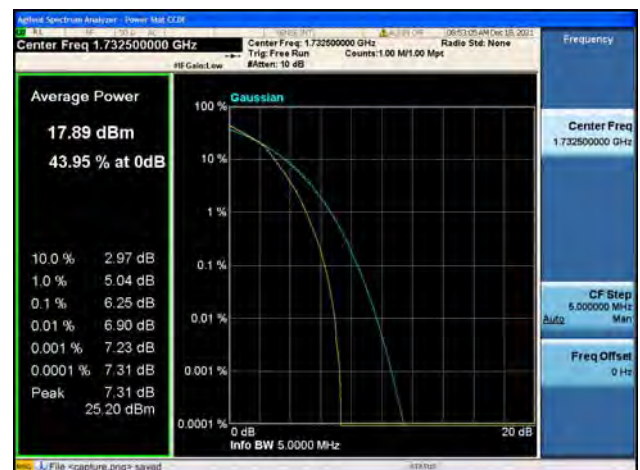
Band4 / 1.4MHz / Mid CH / QPSK



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

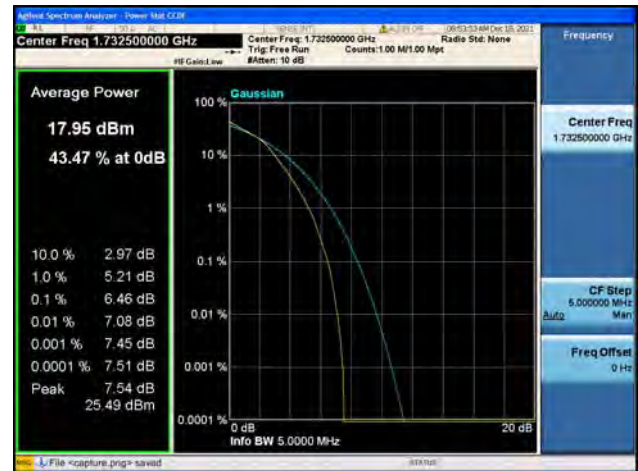




Band4 / 3MHz / Mid CH / QPSK



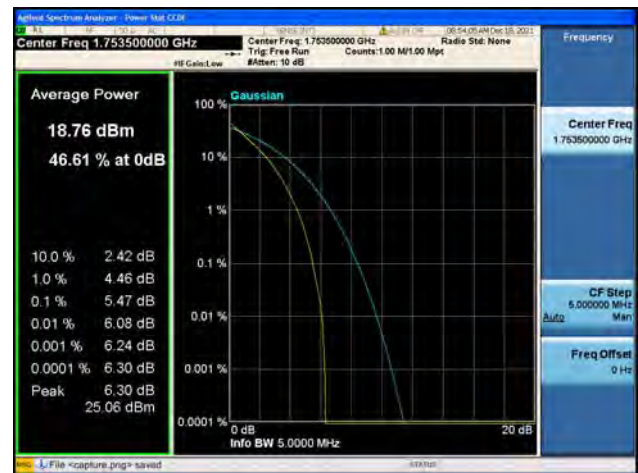
Band4 / 3MHz / Mid CH / 16QAM



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



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Band4 / 15MHz / High CH / QPSK



Band4 / 15MHz / High CH / 16QAM



Band4 / 15MHz / High CH / 64QAM



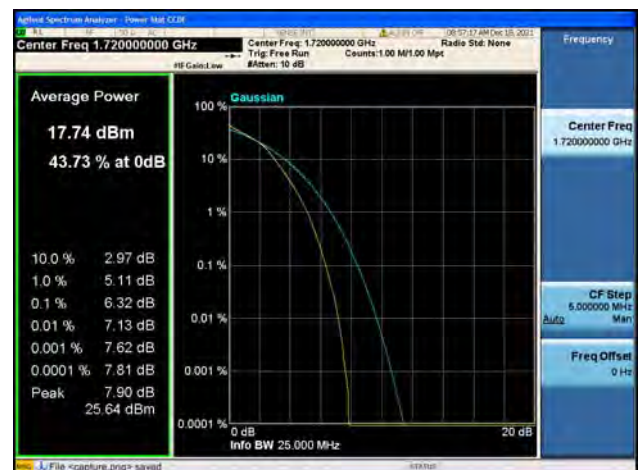
Band4 / 20MHz / Low CH / QPSK



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





Band66 / 1.4MHz / Low CH / QPSK



Band66 / 1.4MHz / Low CH / 16QAM



Band66 / 1.4MHz / Low CH / 64QAM



Band66 / 1.4MHz / Mid CH / QPSK



Band66 / 1.4MHz / Mid CH / 16QAM



Band66 / 1.4MHz / Mid CH / 64QAM





Band66 / 1.4MHz / High CH / QPSK



Band66 / 1.4MHz / High CH / 16QAM



Band66 / 1.4MHz / High CH / 64QAM



Band66 / 3MHz / Low CH / QPSK



Band66 / 3MHz / Low CH / 16QAM

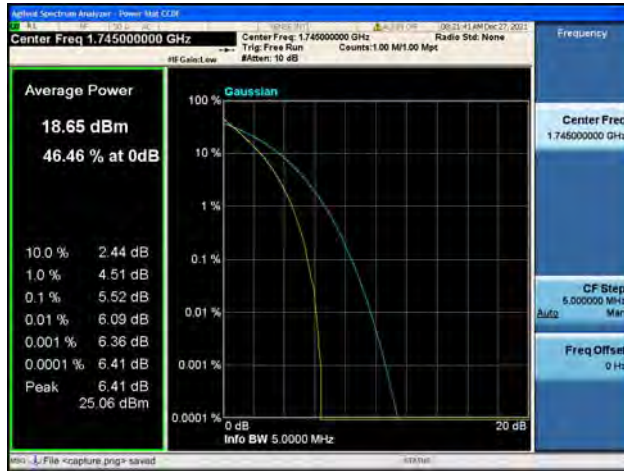


Band66 / 3MHz / Low CH / 64QAM





Band66 / 3MHz / Mid CH / QPSK



Band66 / 3MHz / Mid CH / 16QAM



Band66 / 3MHz / Mid CH / 64QAM



Band66 / 3MHz / High CH / QPSK



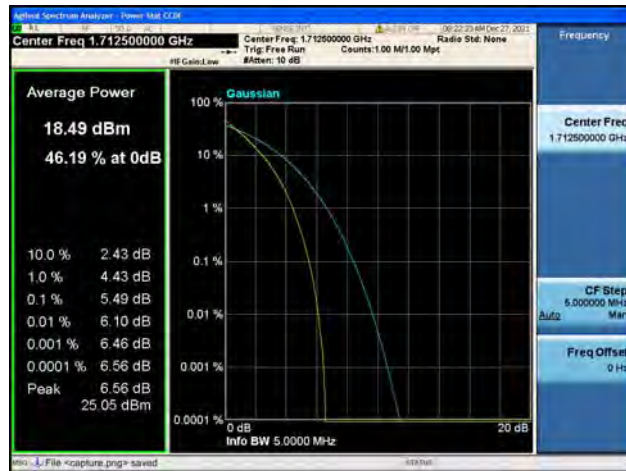
Band66 / 3MHz / High CH / 16QAM



Band66 / 3MHz / High CH / 64QAM



Band66 / 5MHz / Low CH / QPSK



Band66 / 5MHz / Low CH / 16QAM



Band66 / 5MHz / Low CH / 64QAM



Band66 / 5MHz / Mid CH / QPSK



Band66 / 5MHz / Mid CH / 16QAM



Band66 / 5MHz / Mid CH / 64QAM





Band66 / 5MHz / High CH / QPSK



Band66 / 5MHz / High CH / 16QAM



Band66 / 5MHz / High CH / 64QAM



Band66 / 10MHz / Low CH / QPSK



Band66 / 10MHz / Low CH / 16QAM



Band66 / 10MHz / Low CH / 64QAM



Band66 / 10MHz / Mid CH / QPSK



Band66 / 10MHz / Mid CH / 16QAM



Band66 / 10MHz / Mid CH / 64QAM



Band66 / 10MHz / High CH / QPSK



Band66 / 10MHz / High CH / 16QAM



Band66 / 10MHz / High CH / 64QAM





Band66 / 15MHz / Low CH / QPSK



Band66 / 15MHz / Low CH / 16QAM



Band66 / 15MHz / Low CH / 64QAM



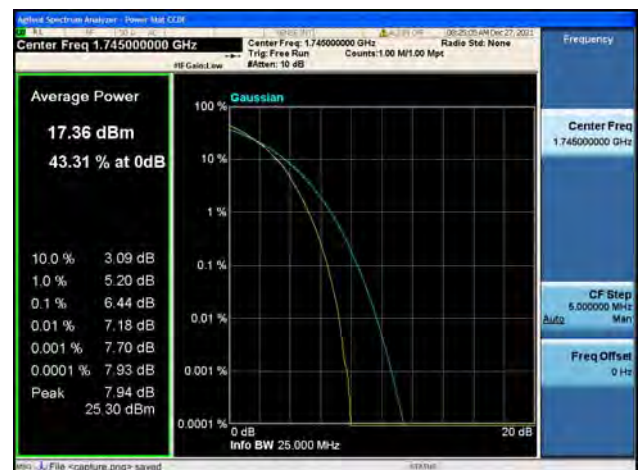
Band66 / 15MHz / Mid CH / QPSK



Band66 / 15MHz / Mid CH / 16QAM



Band66 / 15MHz / Mid CH / 64QAM

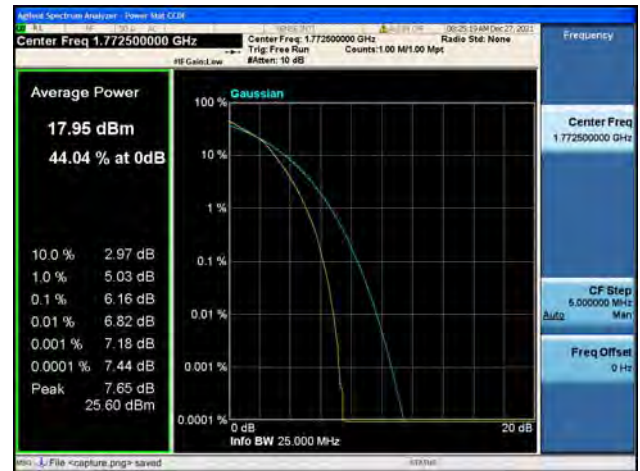




Band66 / 15MHz / High CH / QPSK



Band66 / 15MHz / High CH / 16QAM



Band66 / 15MHz / High CH / 64QAM



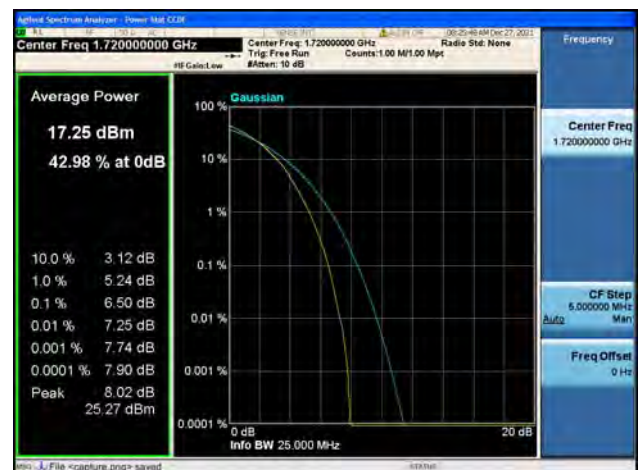
Band66 / 20MHz / Low CH / QPSK



Band66 / 20MHz / Low CH / 16QAM

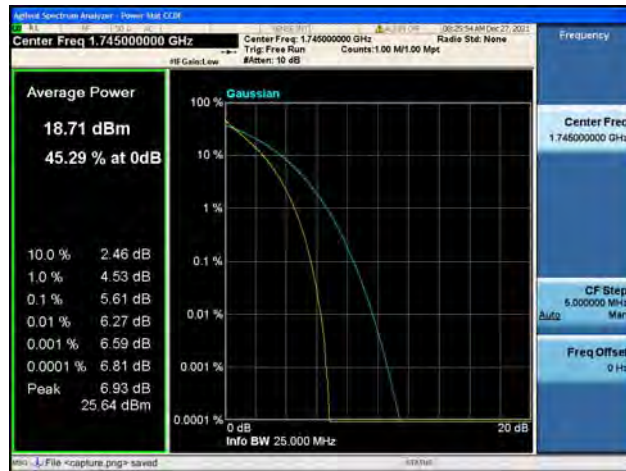


Band66 / 20MHz / Low CH / 64QAM





Band66 / 20MHz / Mid CH / QPSK



Band66 / 20MHz / Mid CH / 16QAM



Band66 / 20MHz / Mid CH / 64QAM



Band66 / 20MHz / High CH / QPSK



Band66 / 20MHz / High CH / 16QAM



Band66 / 20MHz / High CH / 64QAM



2.5. Conducted Spurious Emissions

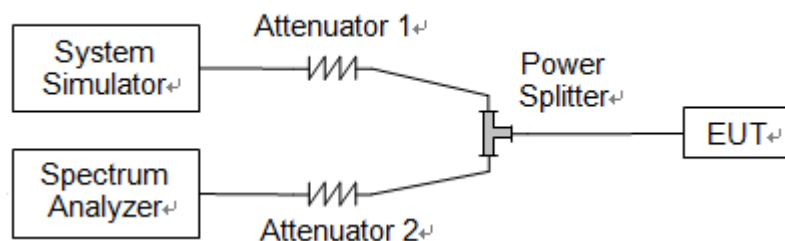
2.5.1. Requirement

According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. This calculated to be -13dBm.

Additional requirement for LTE Band 7, 38, 41:

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



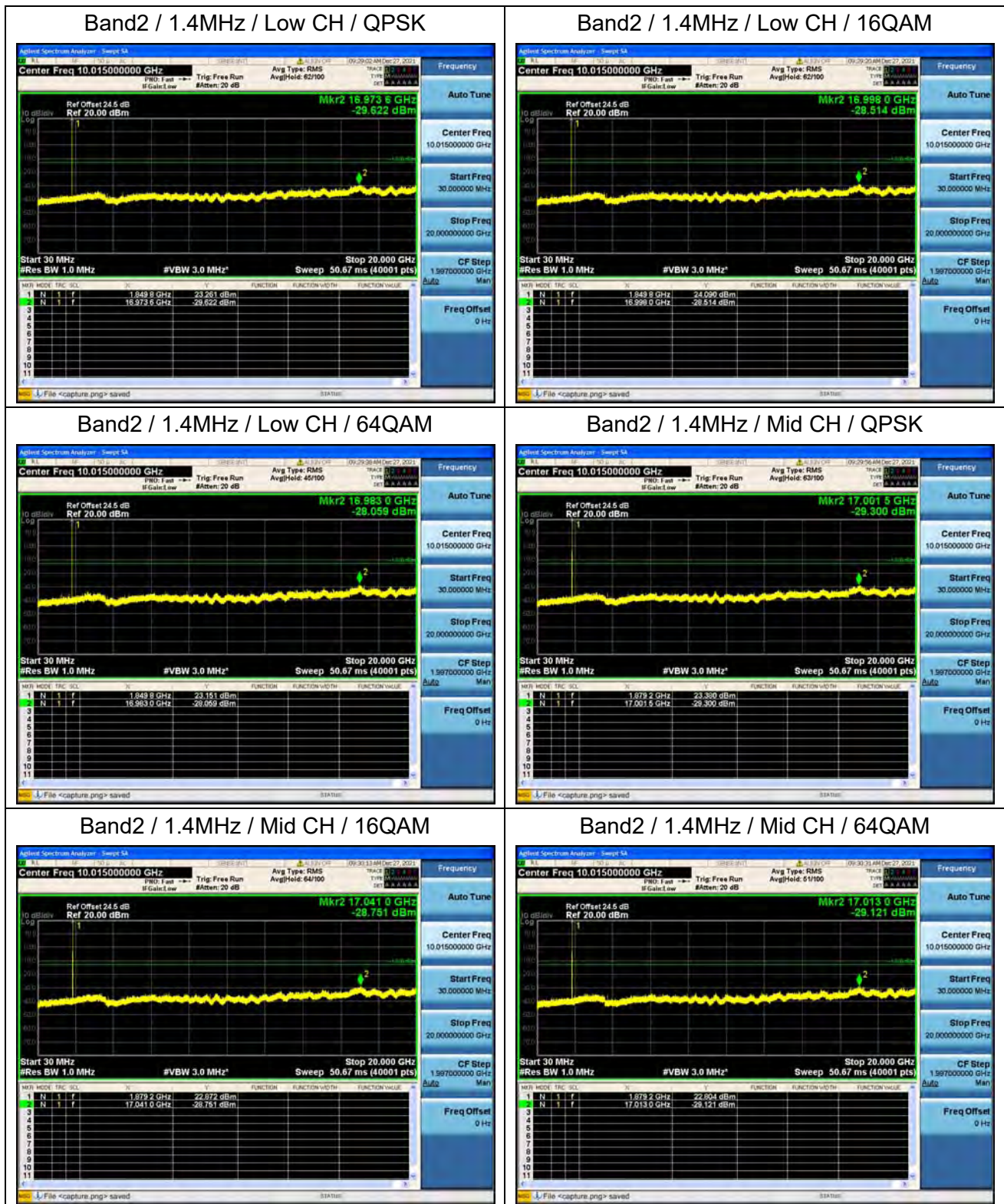
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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

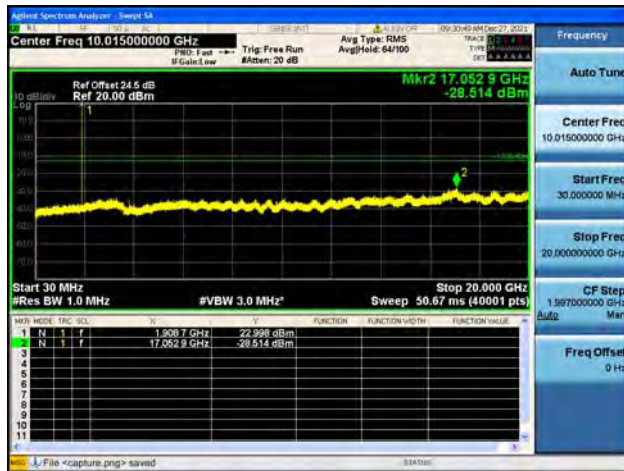


2.5.4. Test Result





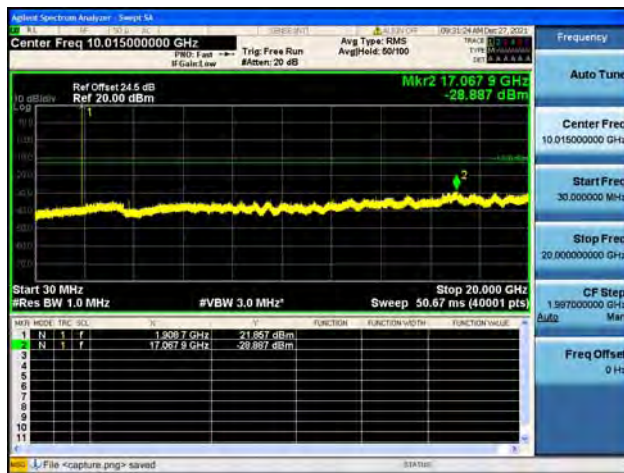
Band2 / 1.4MHz / High CH / QPSK



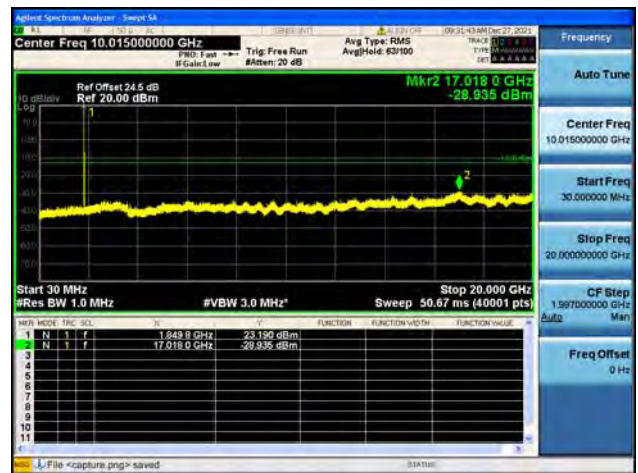
Band2 / 1.4MHz / High CH / 16QAM



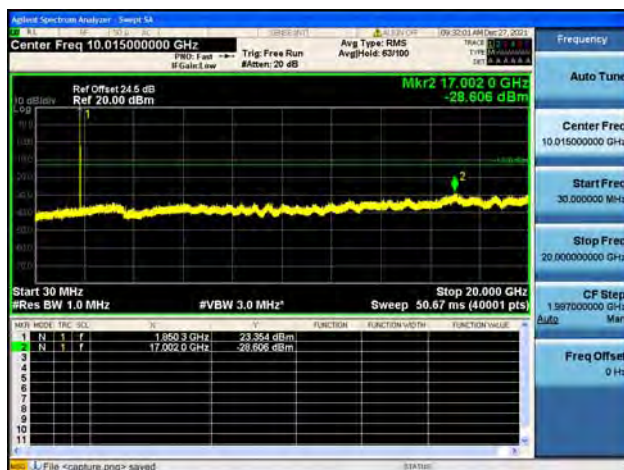
Band2 / 1.4MHz / High CH / 64QAM



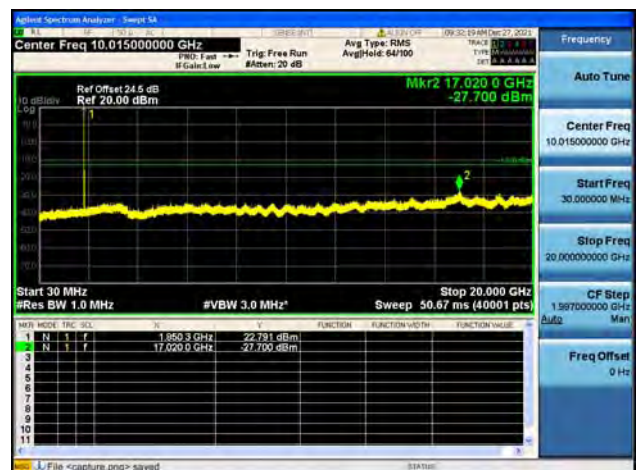
Band2 / 3MHz / Low CH / QPSK



Band2 / 3MHz / Low CH / 16QAM

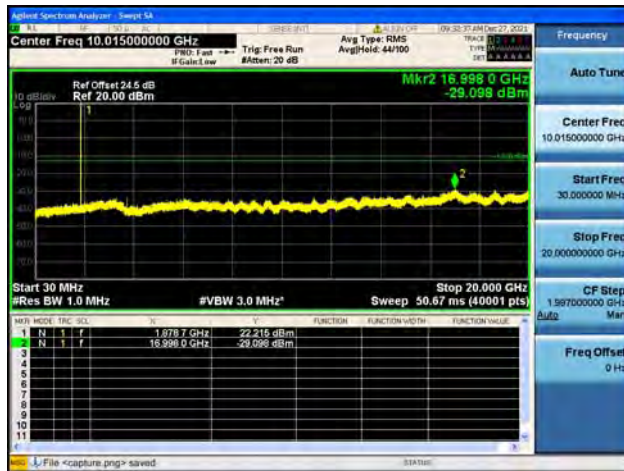


Band2 / 3MHz / Low CH / 64QAM

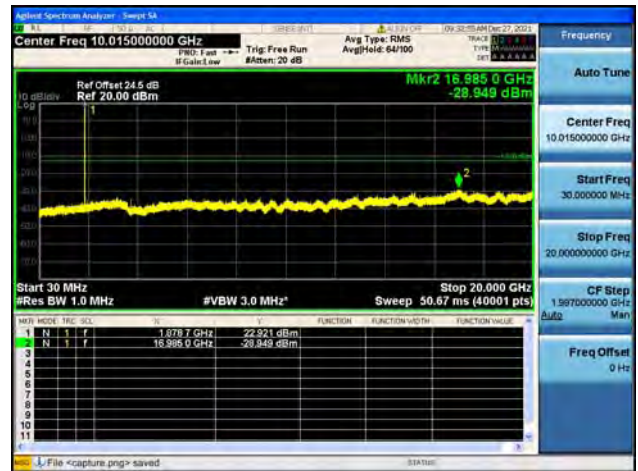




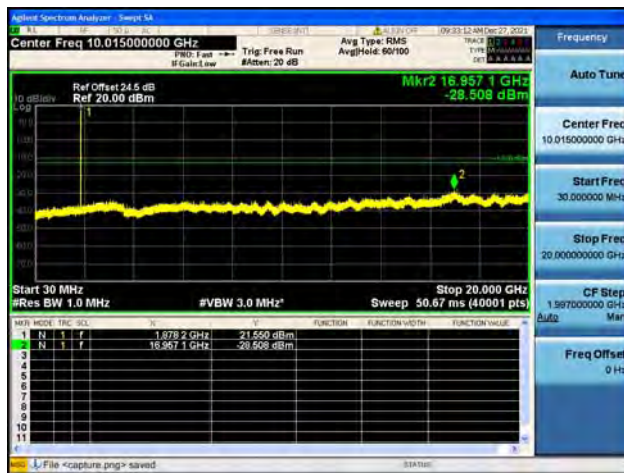
Band2 / 3MHz / Mid CH / QPSK



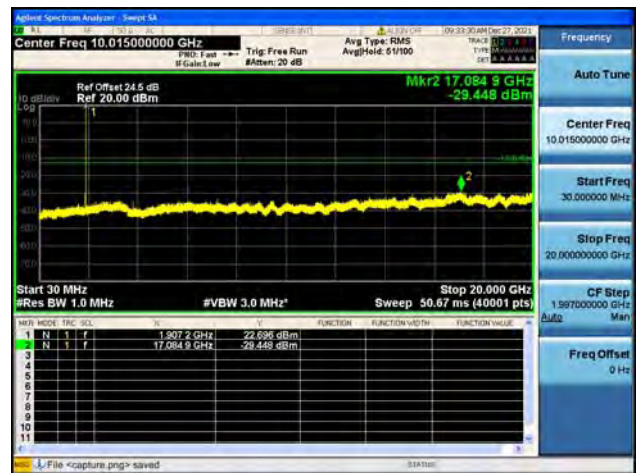
Band2 / 3MHz / Mid CH / 16QAM



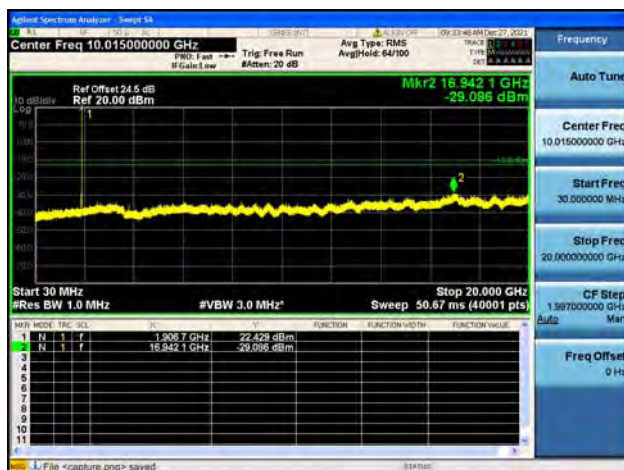
Band2 / 3MHz / Mid CH / 64QAM



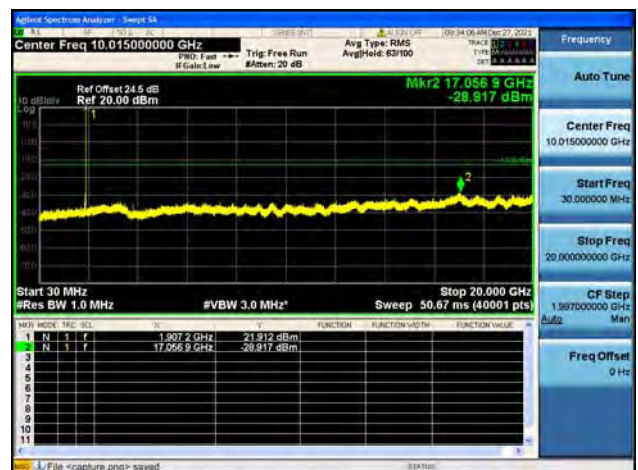
Band2 / 3MHz / High CH / QPSK



Band2 / 3MHz / High CH / 16QAM

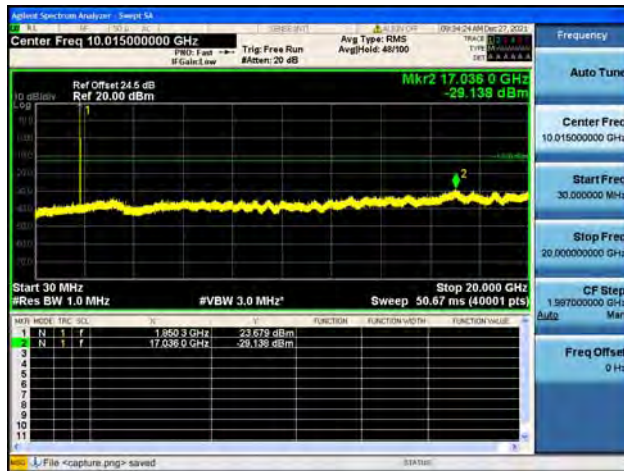


Band2 / 3MHz / High CH / 64QAM

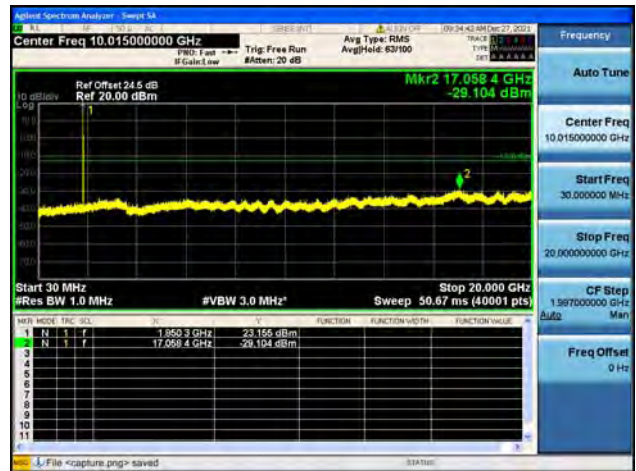




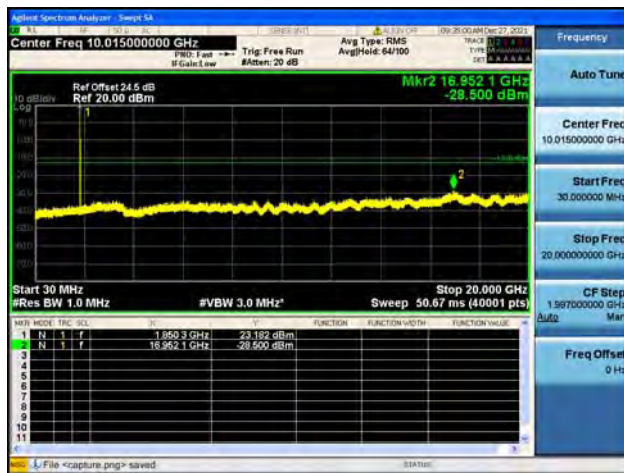
Band2 / 5MHz / Low CH / QPSK



Band2 / 5MHz / Low CH / 16QAM



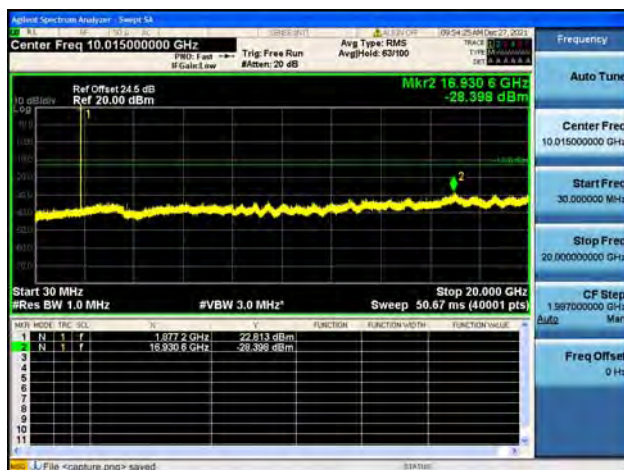
Band2 / 5MHz / Low CH / 64QAM



Band2 / 5MHz / Mid CH / QPSK



Band2 / 5MHz / Mid CH / 16QAM

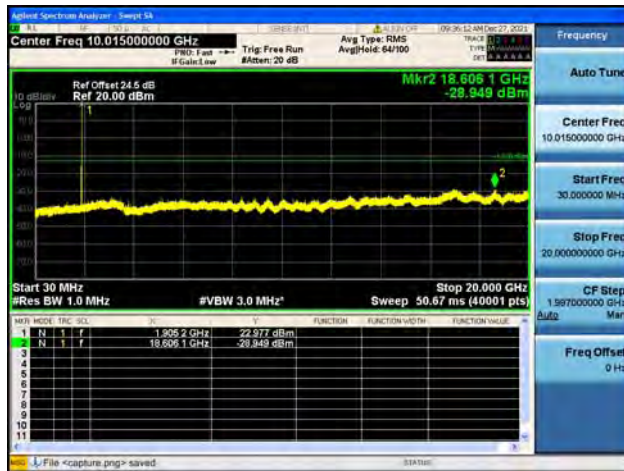


Band2 / 5MHz / Mid CH / 64QAM

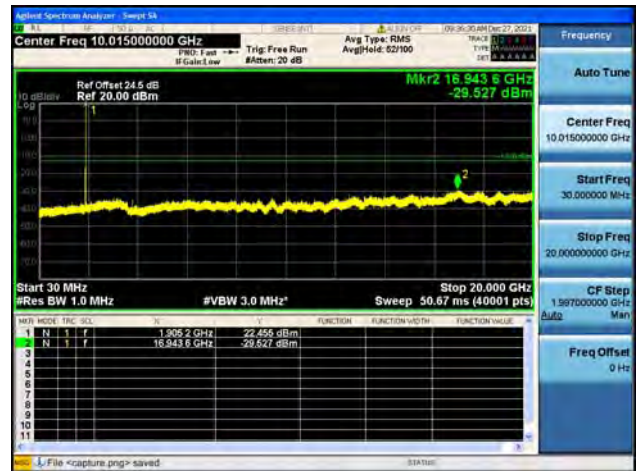




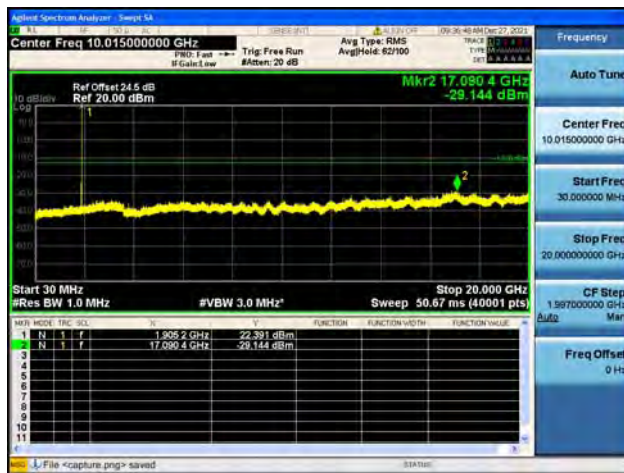
Band2 / 5MHz / High CH / QPSK



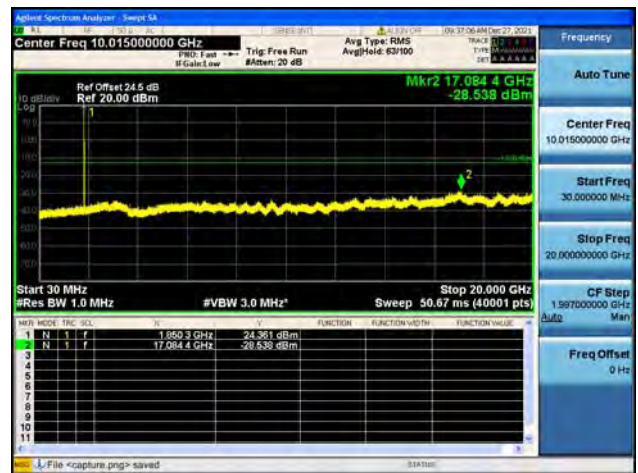
Band2 / 5MHz / High CH / 16QAM



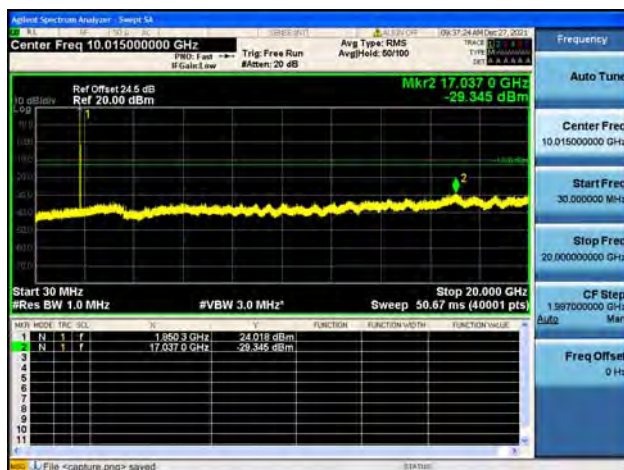
Band2 / 5MHz / High CH / 64QAM



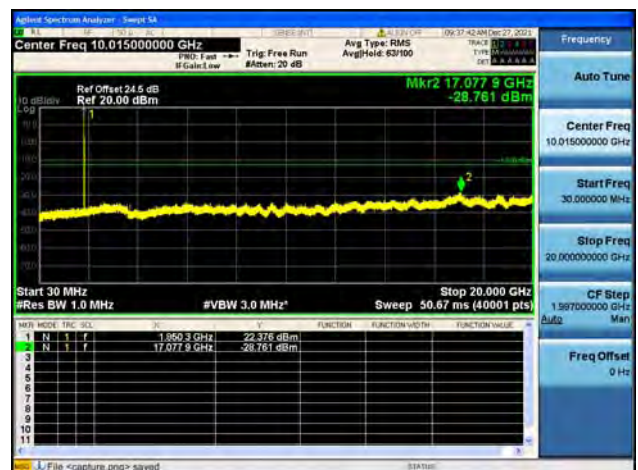
Band2 / 10MHz / Low CH / QPSK



Band2 / 10MHz / Low CH / 16QAM

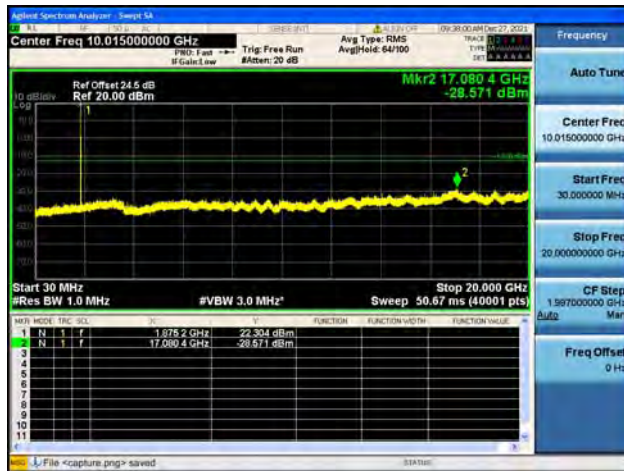


Band2 / 10MHz / Low CH / 64QAM

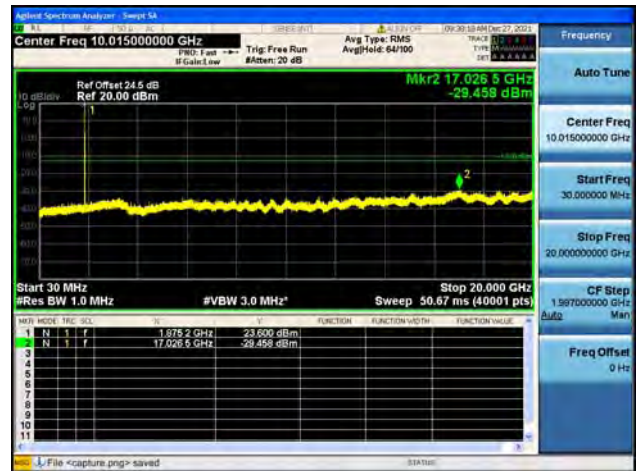




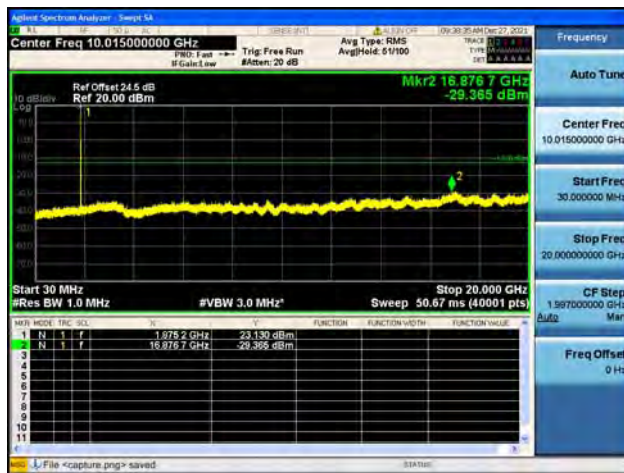
Band2 / 10MHz / Mid CH / QPSK



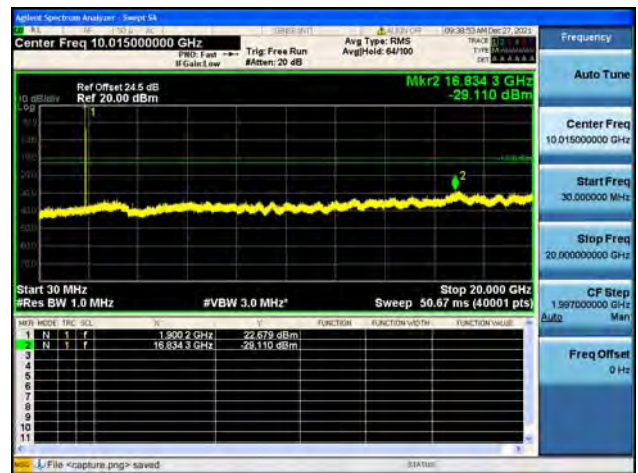
Band2 / 10MHz / Mid CH / 16QAM



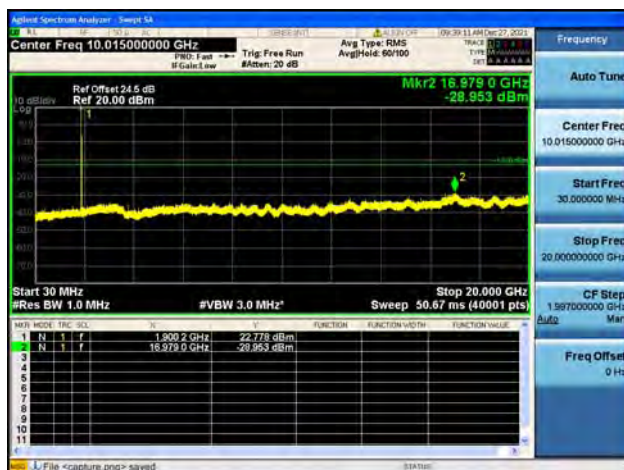
Band2 / 10MHz / Mid CH / 64QAM



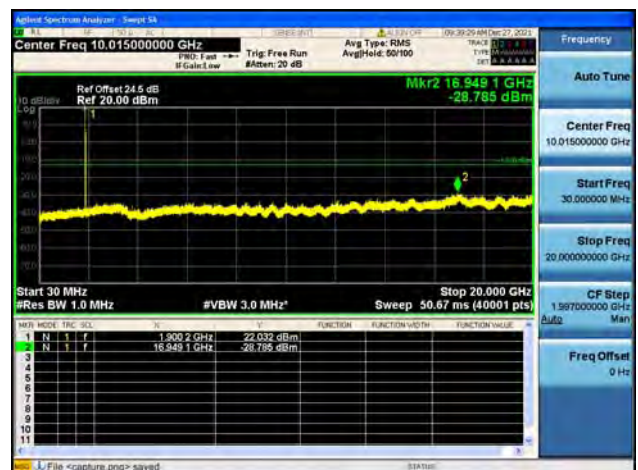
Band2 / 10MHz / High CH / QPSK



Band2 / 10MHz / High CH / 16QAM

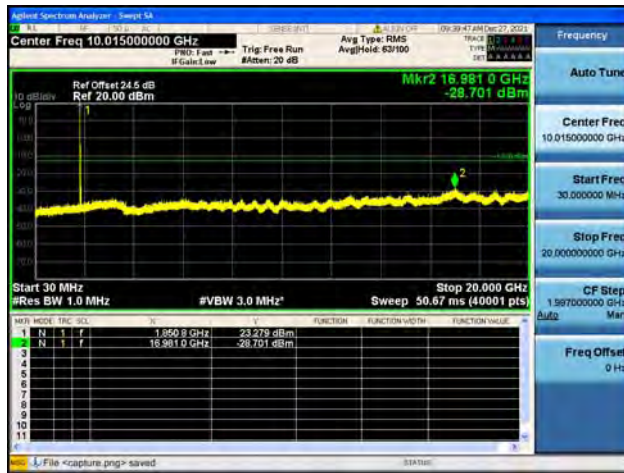


Band2 / 10MHz / High CH / 64QAM

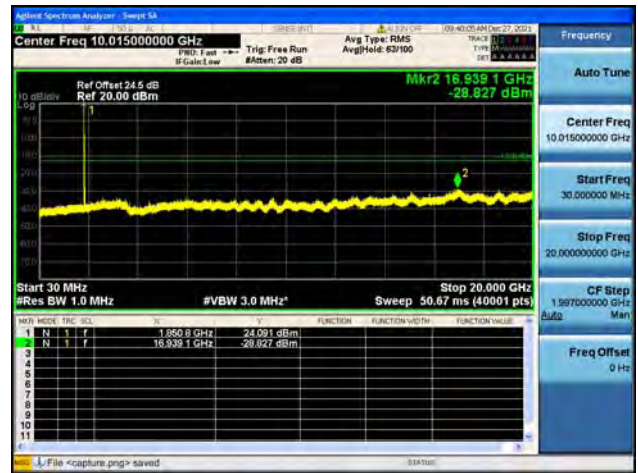




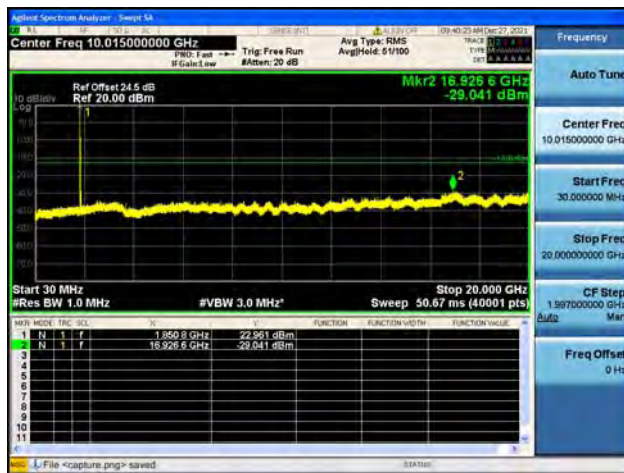
Band2 / 15MHz / Low CH / QPSK



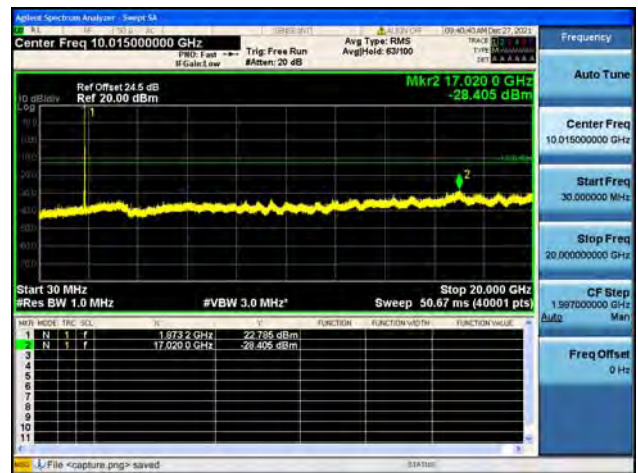
Band2 / 15MHz / Low CH / 16QAM



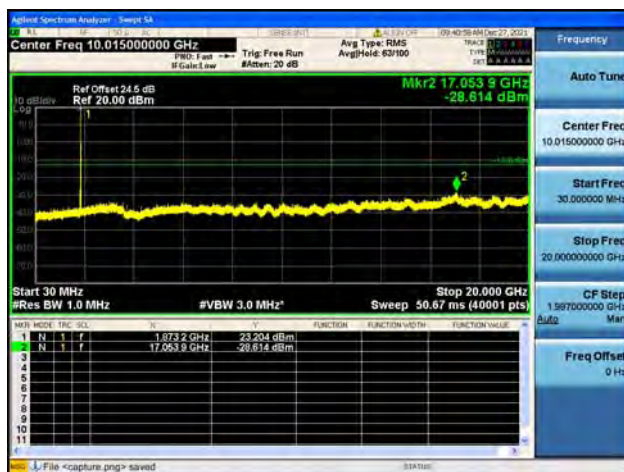
Band2 / 15MHz / Low CH / 64QAM



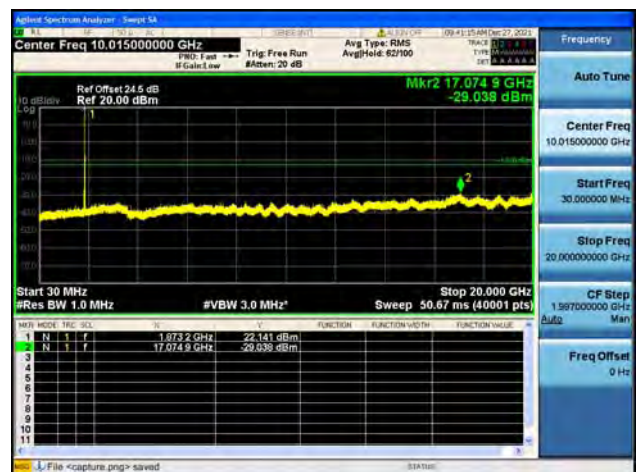
Band2 / 15MHz / Mid CH / QPSK



Band2 / 15MHz / Mid CH / 16QAM

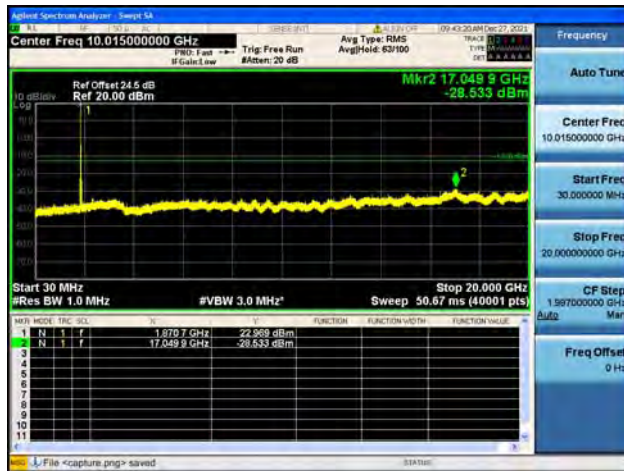


Band2 / 15MHz / Mid CH / 64QAM

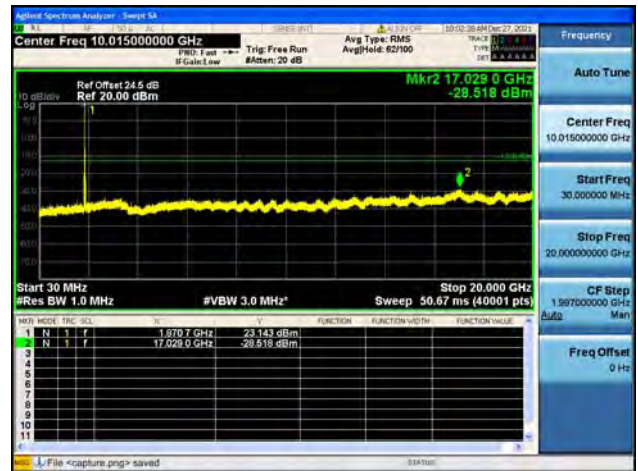




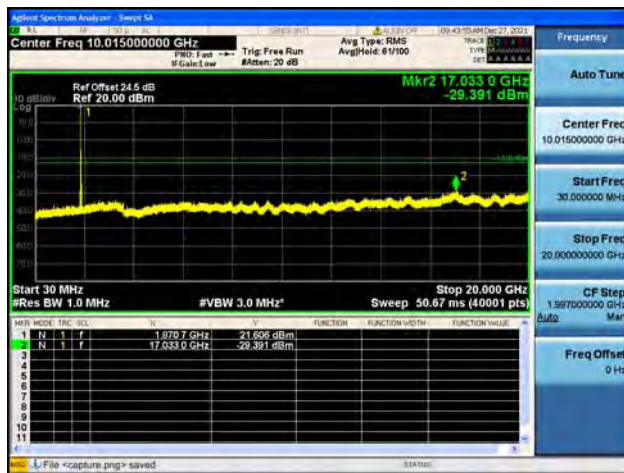
Band2 / 20MHz / Mid CH / QPSK



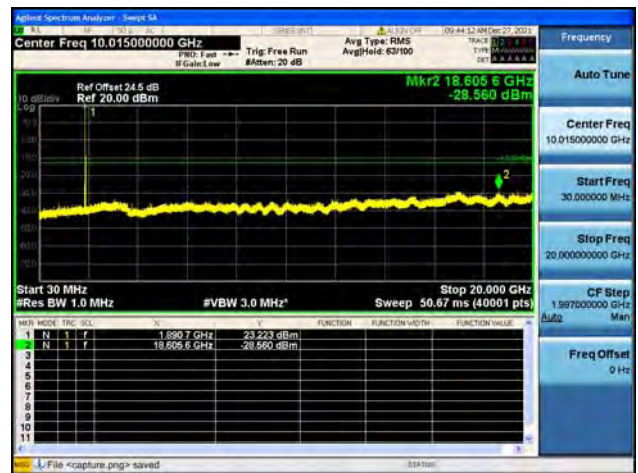
Band2 / 20MHz / Mid CH / 16QAM



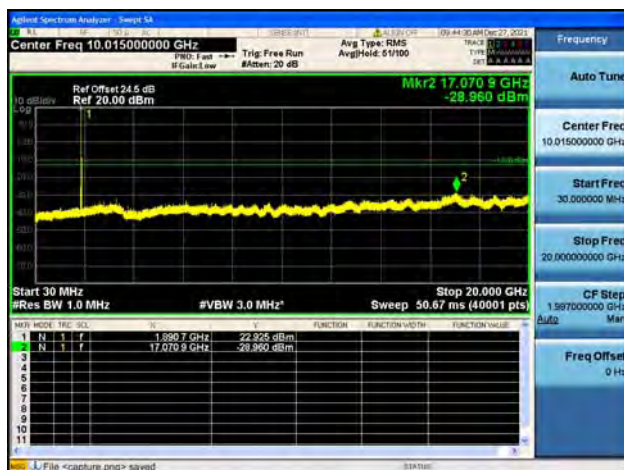
Band2 / 20MHz / Mid CH / 64QAM



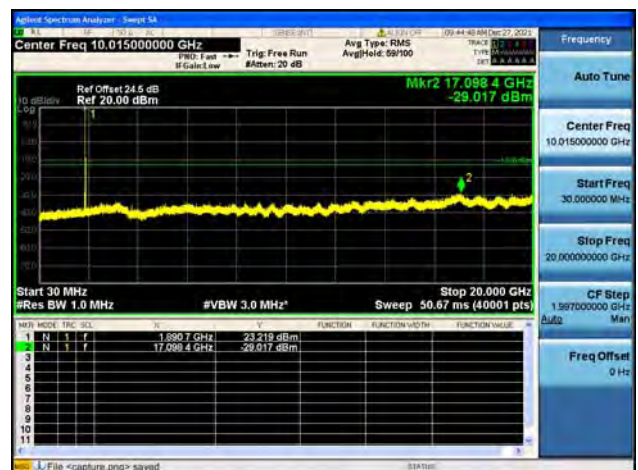
Band2 / 20MHz / High CH / QPSK



Band2 / 20MHz / High CH / 16QAM

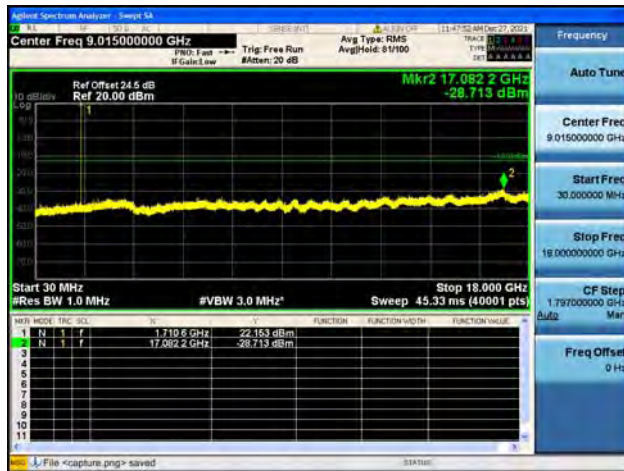


Band2 / 20MHz / High CH / 64QAM





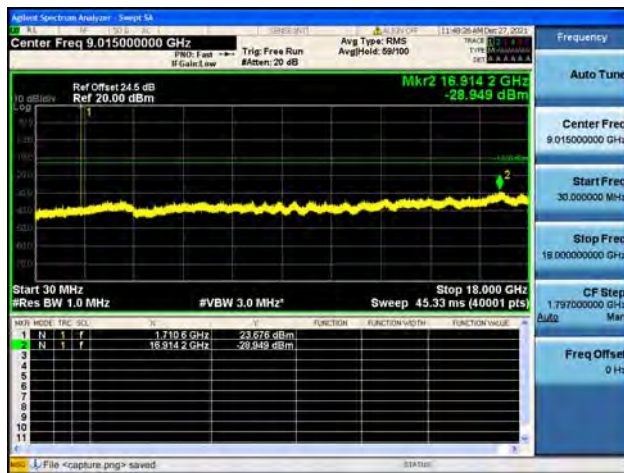
Band4 / 1.4MHz / Low CH / QPSK



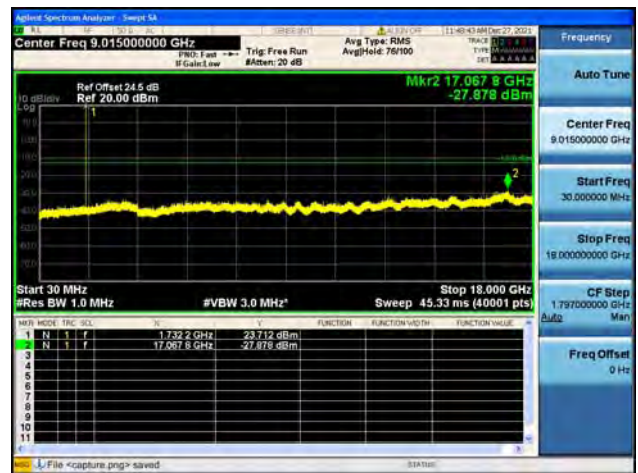
Band4 / 1.4MHz / Low CH / 16QAM



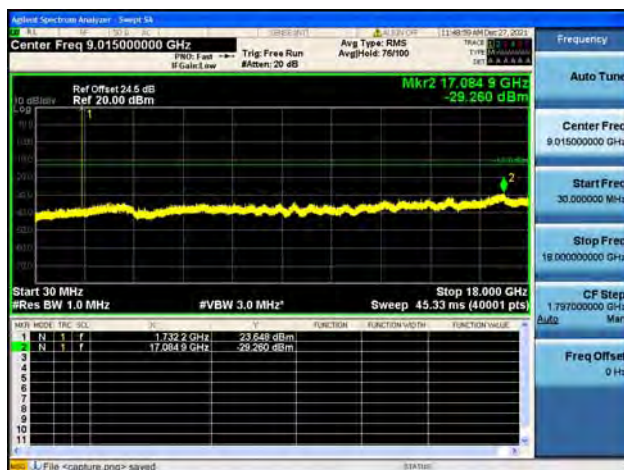
Band4 / 1.4MHz / Low CH / 64QAM



Band4 / 1.4MHz / Mid CH / QPSK



Band4 / 1.4MHz / Mid CH / 16QAM



Band4 / 1.4MHz / Mid CH / 64QAM

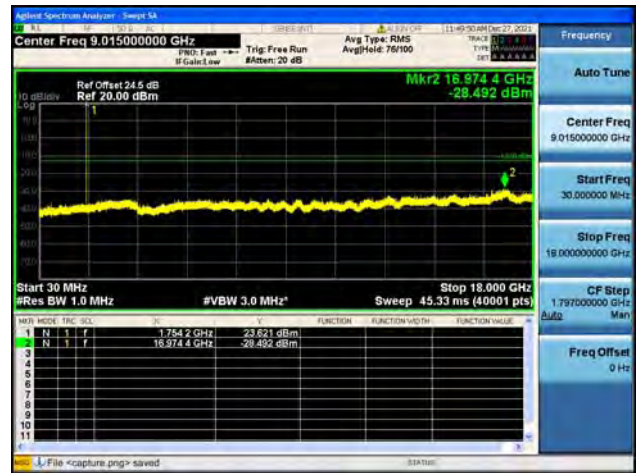




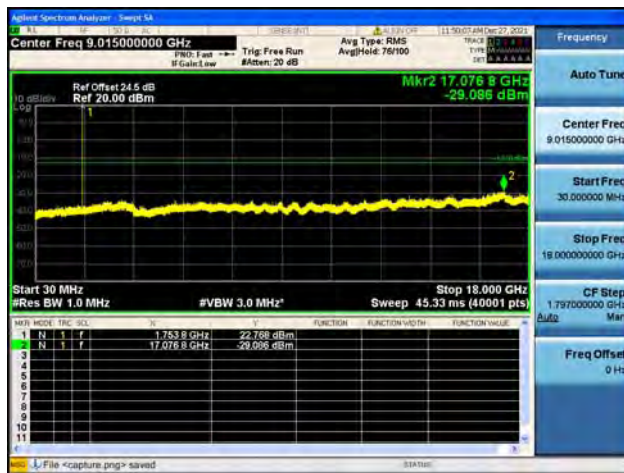
Band4 / 1.4MHz / High CH / QPSK



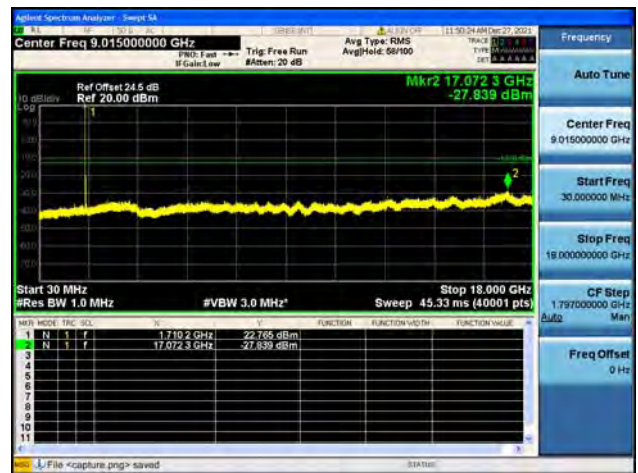
Band4 / 1.4MHz / High CH / 16QAM



Band4 / 1.4MHz / High CH / 64QAM



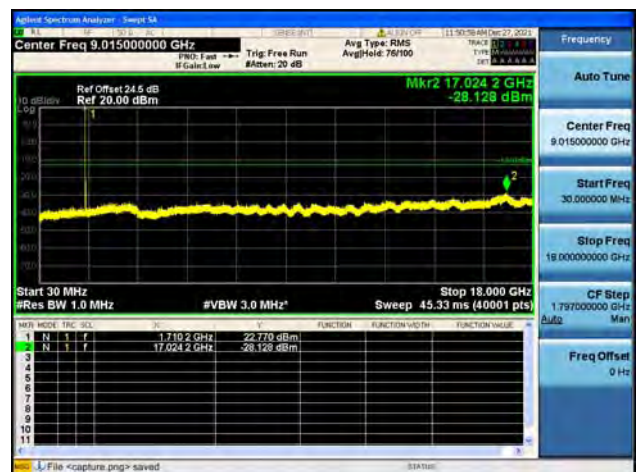
Band4 / 3MHz / Low CH / QPSK



Band4 / 3MHz / Low CH / 16QAM

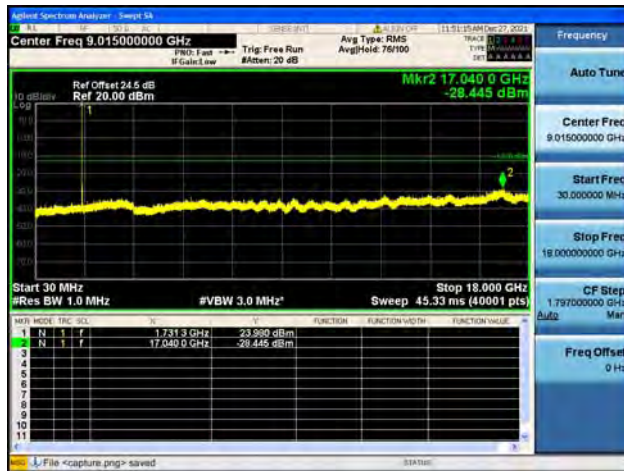


Band4 / 3MHz / Low CH / 64QAM

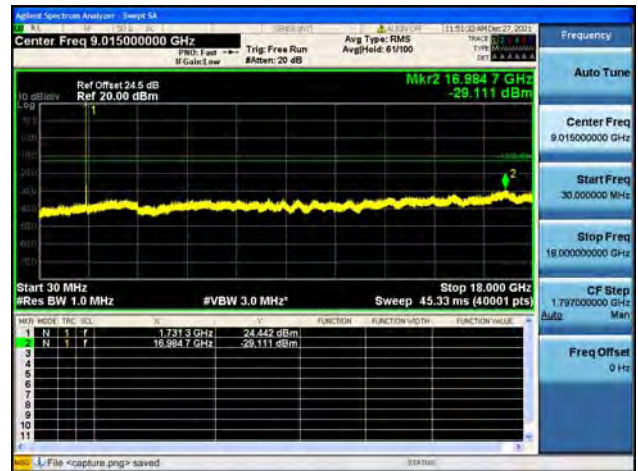




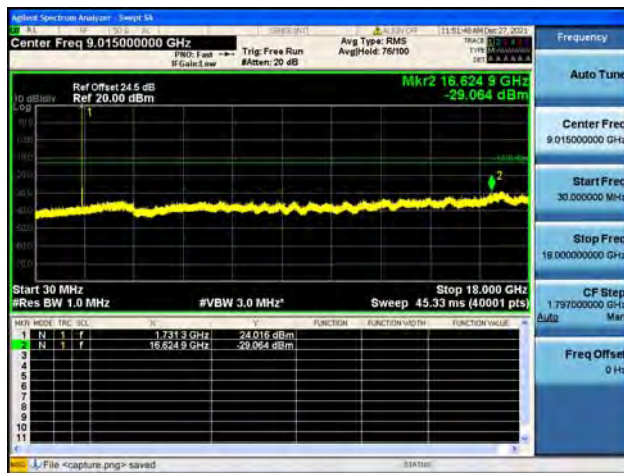
Band4 / 3MHz / Mid CH / QPSK



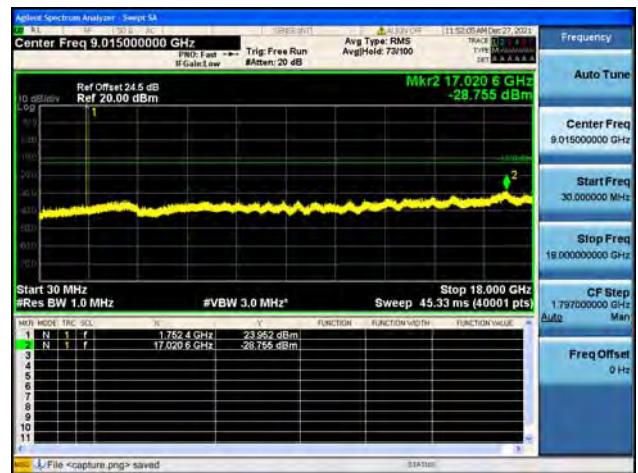
Band4 / 3MHz / Mid CH / 16QAM



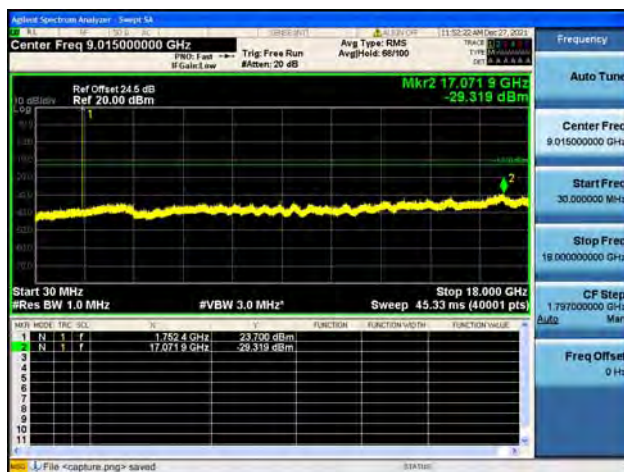
Band4 / 3MHz / Mid CH / 64QAM



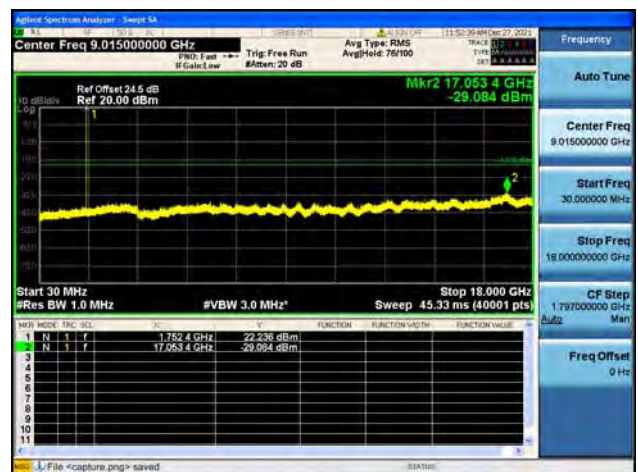
Band4 / 3MHz / High CH / QPSK



Band4 / 3MHz / High CH / 16QAM

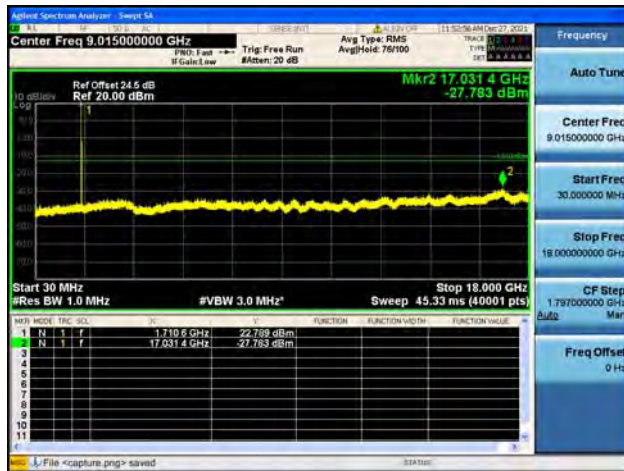


Band4 / 3MHz / High CH / 64QAM

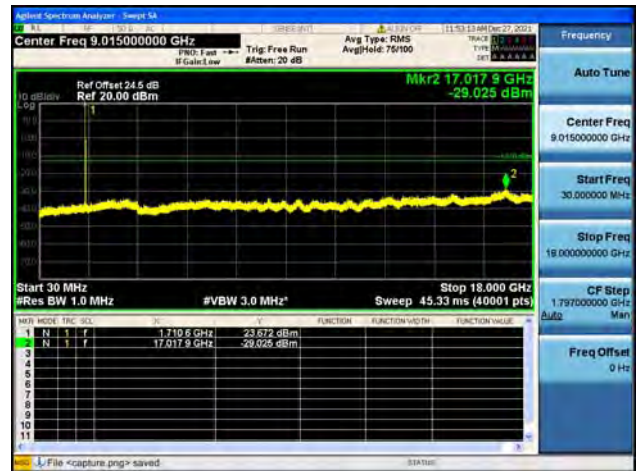




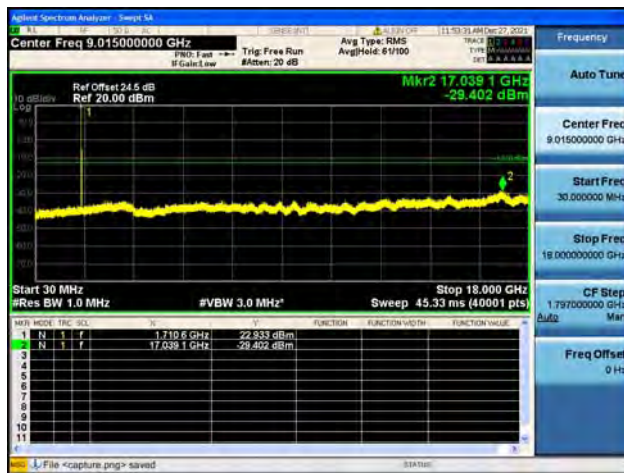
Band4 / 5MHz / Low CH / QPSK



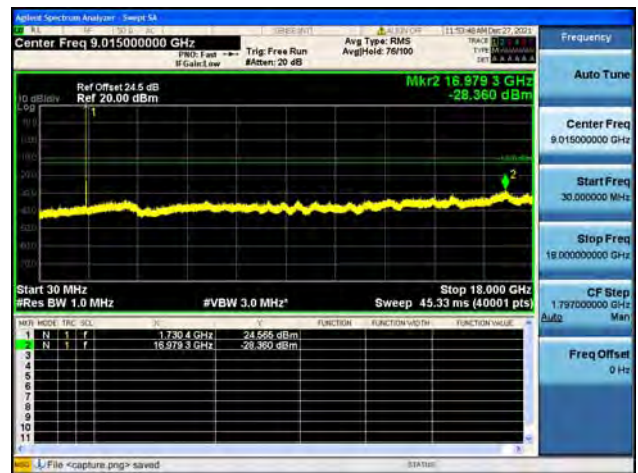
Band4 / 5MHz / Low CH / 16QAM



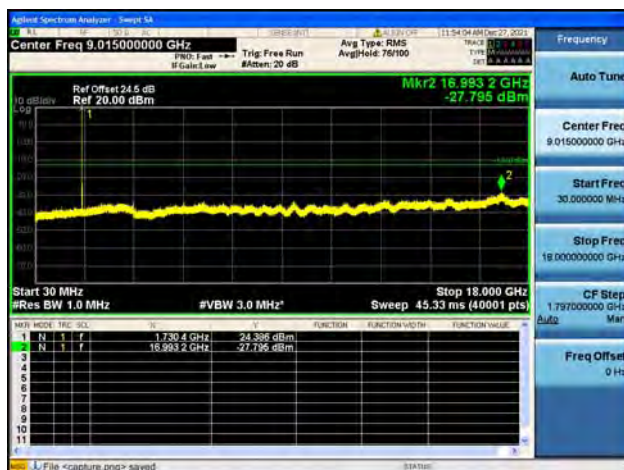
Band4 / 5MHz / Low CH / 64QAM



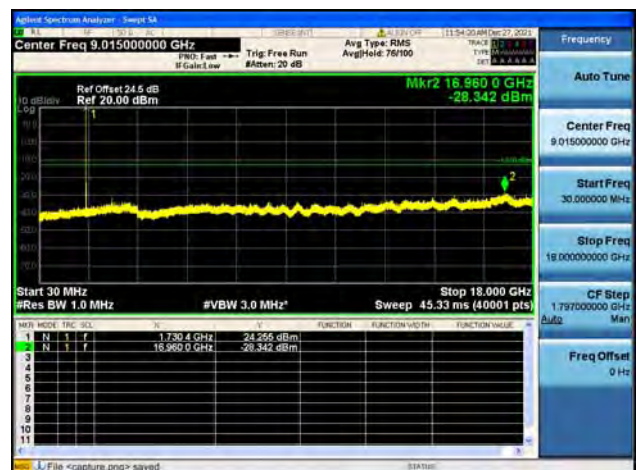
Band4 / 5MHz / Mid CH / QPSK



Band4 / 5MHz / Mid CH / 16QAM

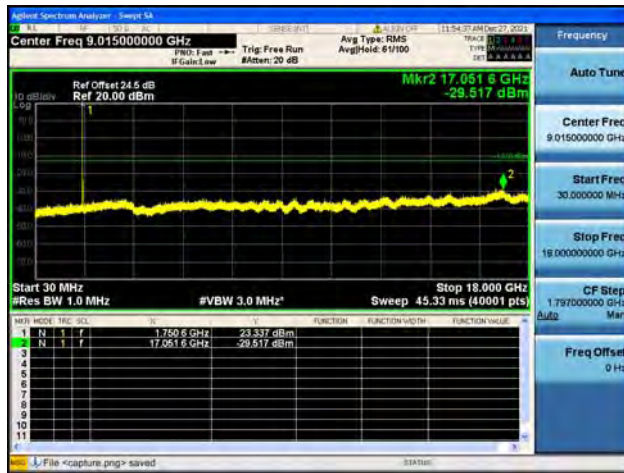


Band4 / 5MHz / Mid CH / 64QAM

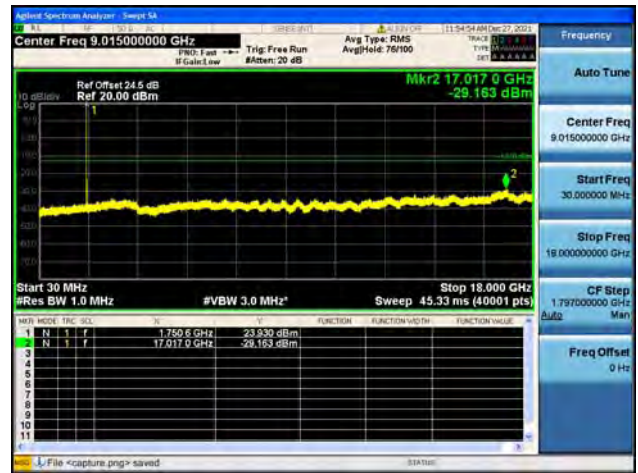




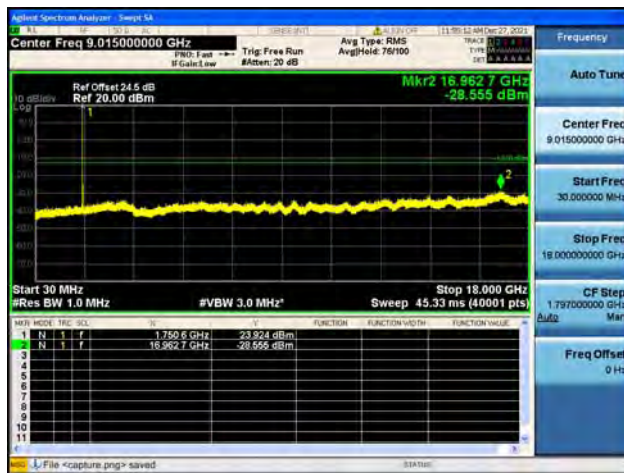
Band4 / 5MHz / High CH / QPSK



Band4 / 5MHz / High CH / 16QAM



Band4 / 5MHz / High CH / 64QAM



Band4 / 10MHz / Low CH / QPSK



Band4 / 10MHz / Low CH / 16QAM

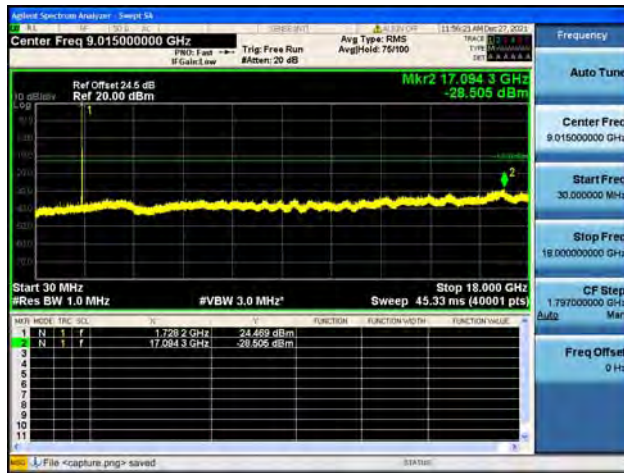


Band4 / 10MHz / Low CH / 64QAM

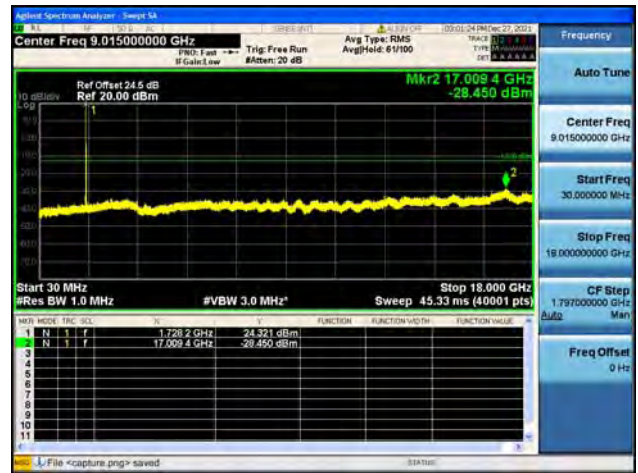




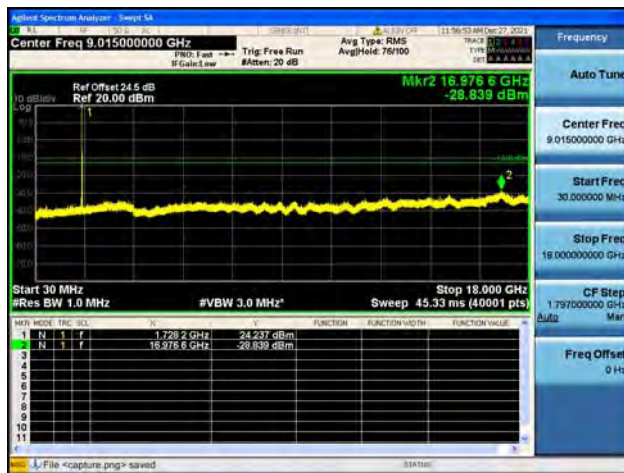
Band4 / 10MHz / Mid CH / QPSK



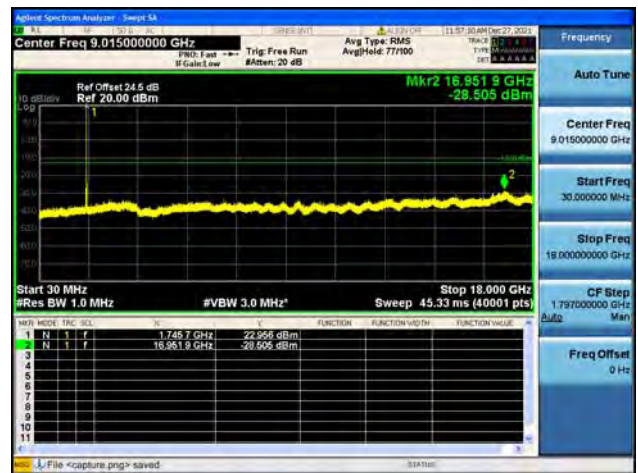
Band4 / 10MHz / Mid CH / 16QAM



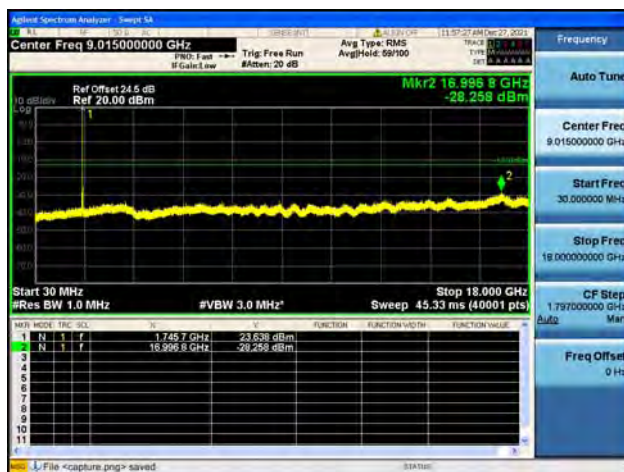
Band4 / 10MHz / Mid CH / 64QAM



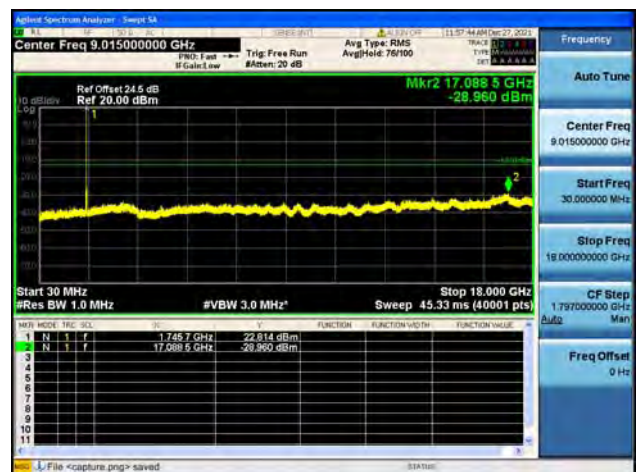
Band4 / 10MHz / High CH / QPSK



Band4 / 10MHz / High CH / 16QAM

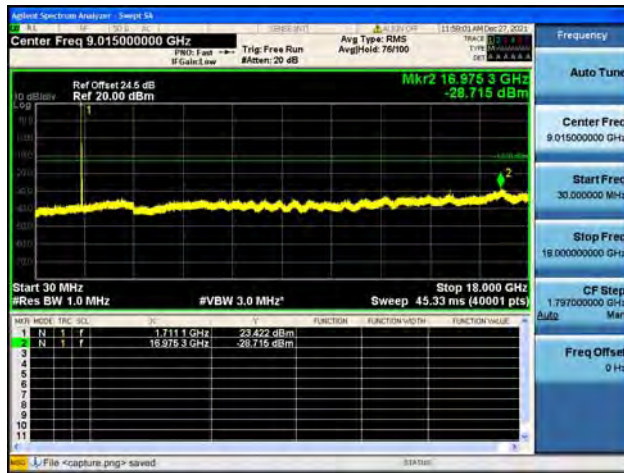


Band4 / 10MHz / High CH / 64QAM





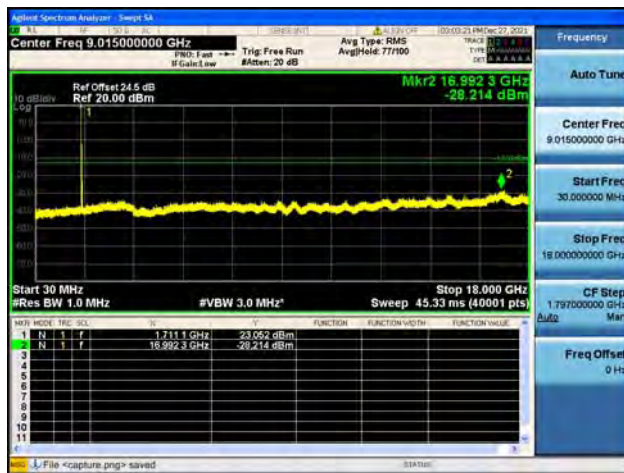
Band4 / 15MHz / Low CH / QPSK



Band4 / 15MHz / Low CH / 16QAM



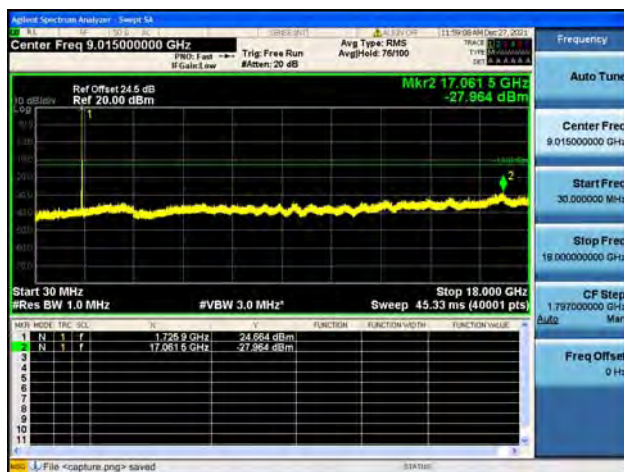
Band4 / 15MHz / Low CH / 64QAM



Band4 / 15MHz / Mid CH / QPSK



Band4 / 15MHz / Mid CH / 16QAM

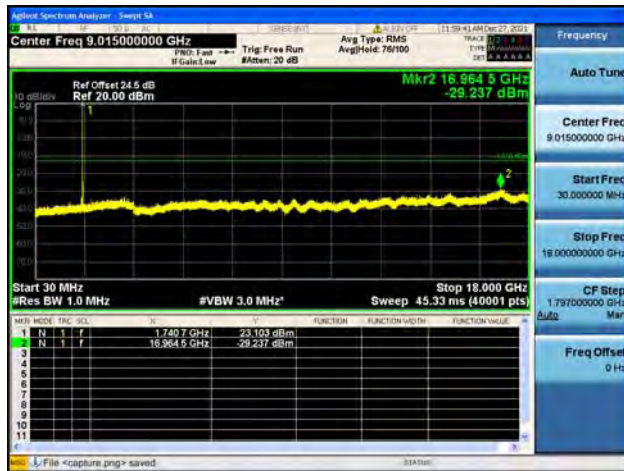


Band4 / 15MHz / Mid CH / 64QAM

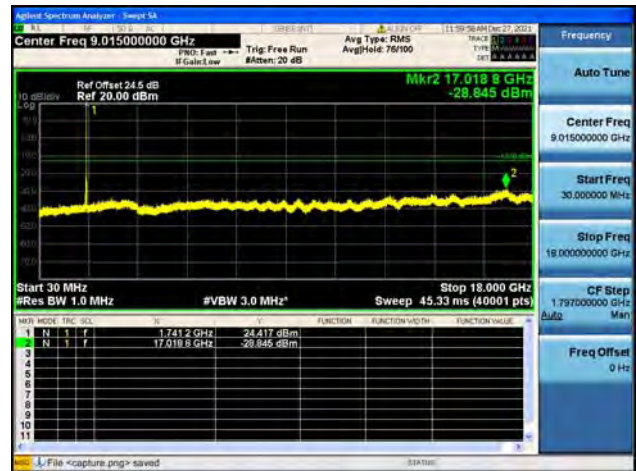




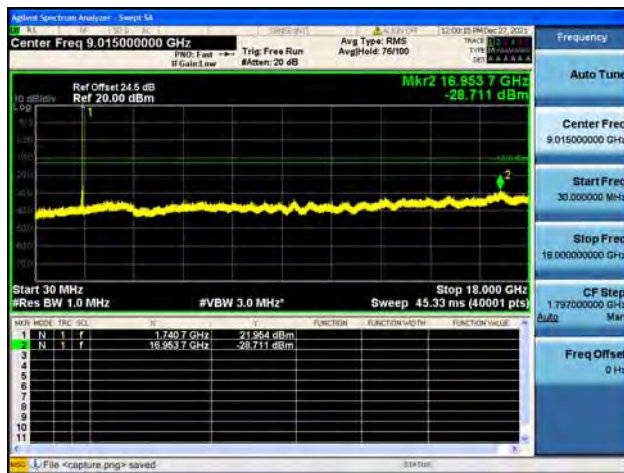
Band4 / 15MHz / High CH / QPSK



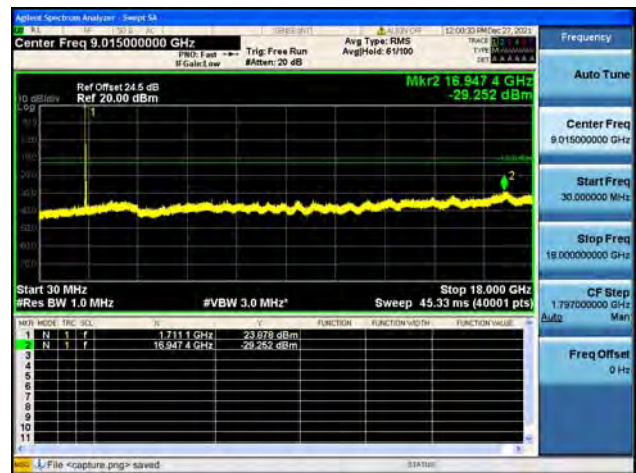
Band4 / 15MHz / High CH / 16QAM



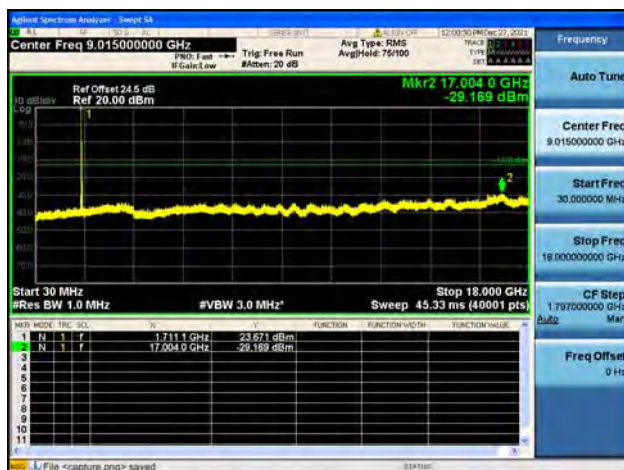
Band4 / 15MHz / High CH / 64QAM



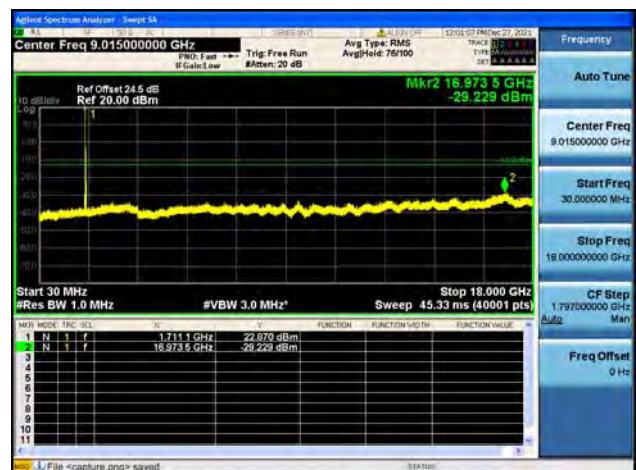
Band4 / 20MHz / Low CH / QPSK



Band4 / 20MHz / Low CH / 16QAM

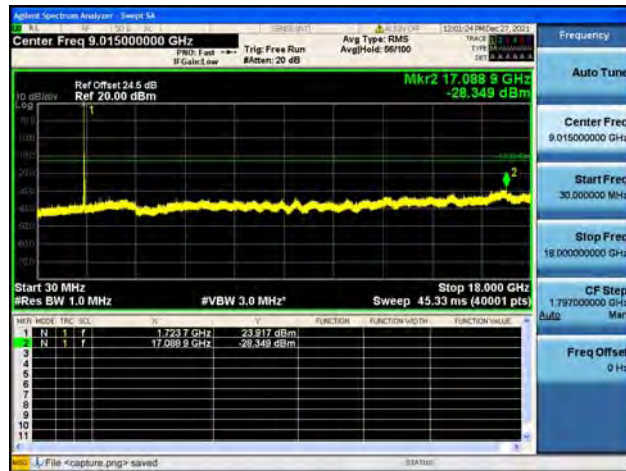


Band4 / 20MHz / Low CH / 64QAM

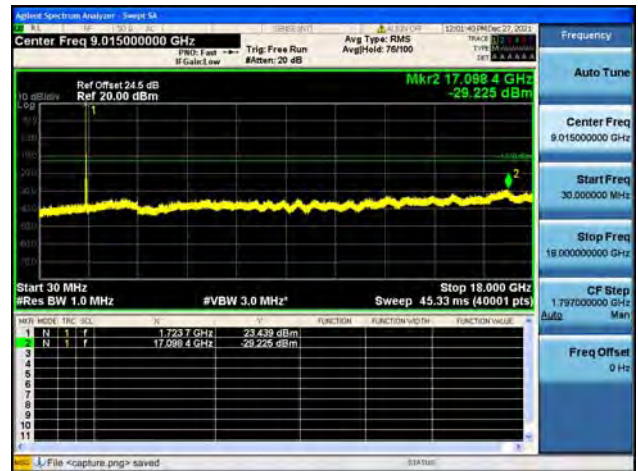




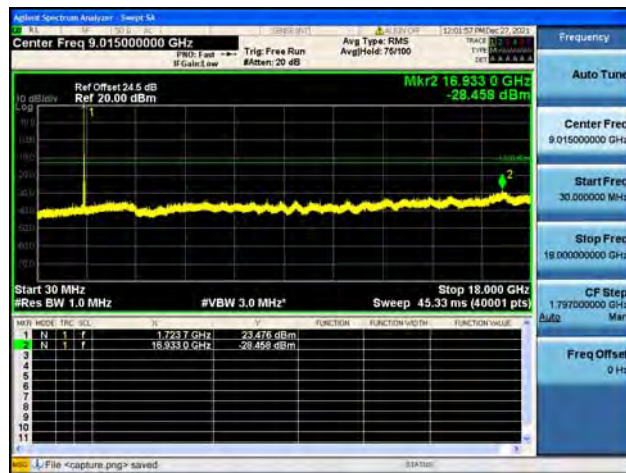
Band4 / 20MHz / Mid CH / QPSK



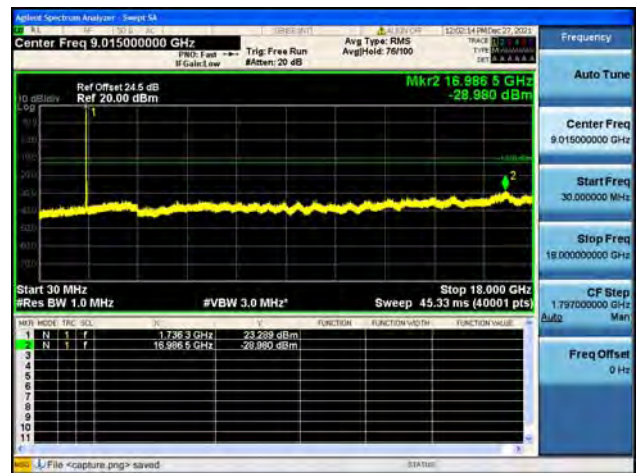
Band4 / 20MHz / Mid CH / 16QAM



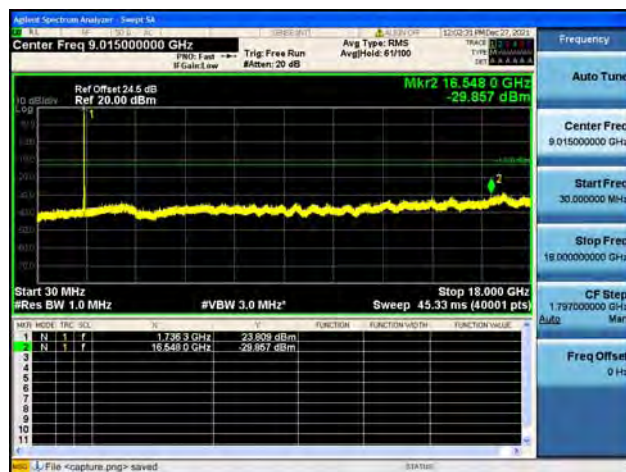
Band4 / 20MHz / Mid CH / 64QAM



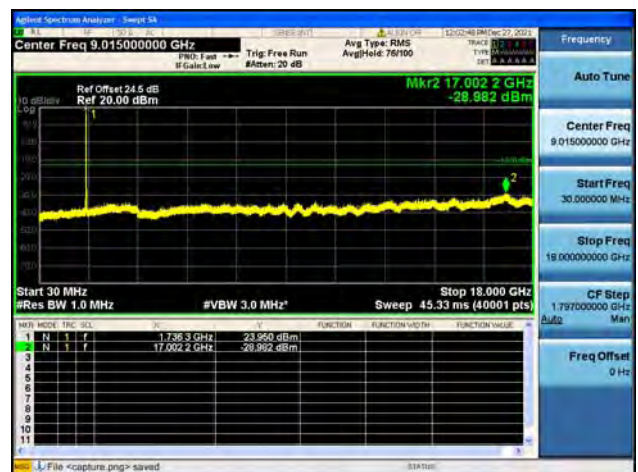
Band4 / 20MHz / High CH / QPSK



Band4 / 20MHz / High CH / 16QAM

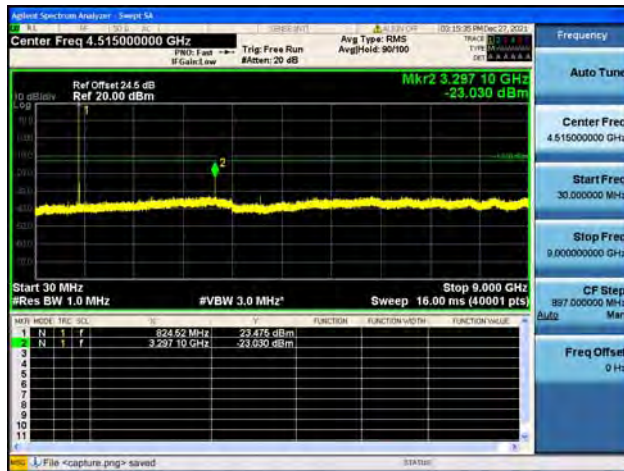


Band4 / 20MHz / High CH / 64QAM

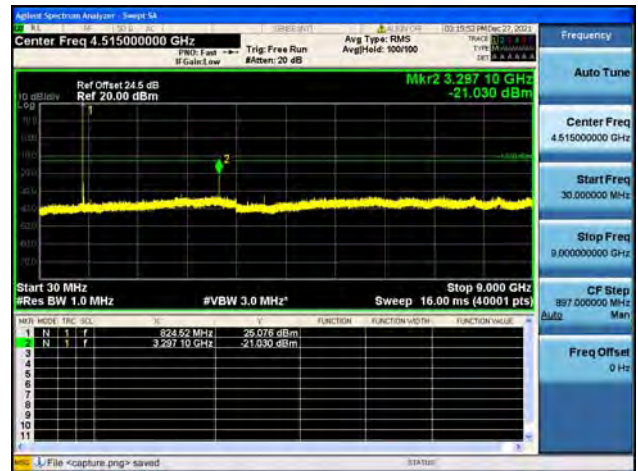




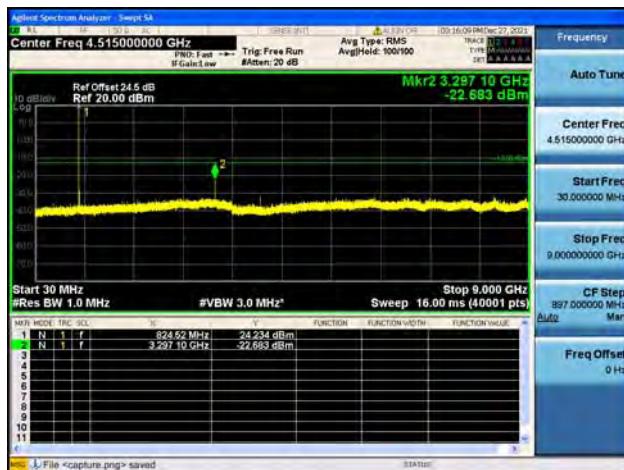
Band5 / 1.4MHz / Low CH / QPSK



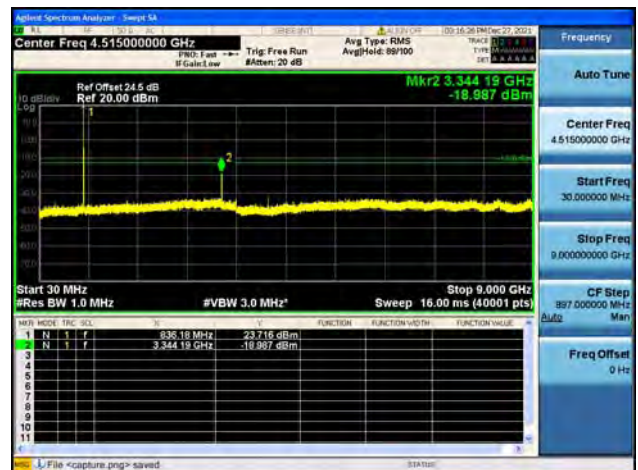
Band5 / 1.4MHz / Low CH / 16QAM



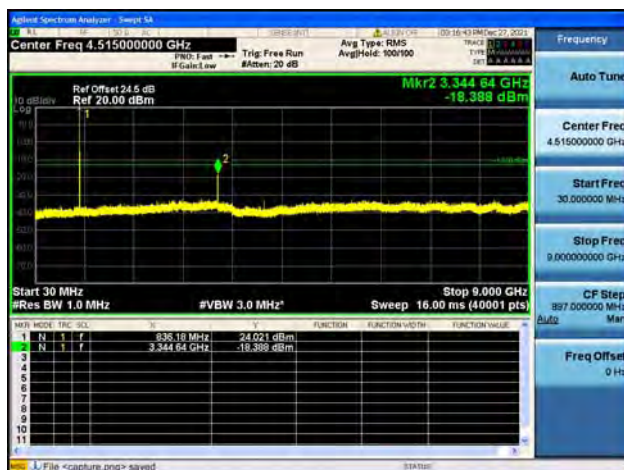
Band5 / 1.4MHz / Low CH / 64QAM



Band5 / 1.4MHz / Mid CH / QPSK



Band5 / 1.4MHz / Mid CH / 16QAM



Band5 / 1.4MHz / Mid CH / 64QAM

