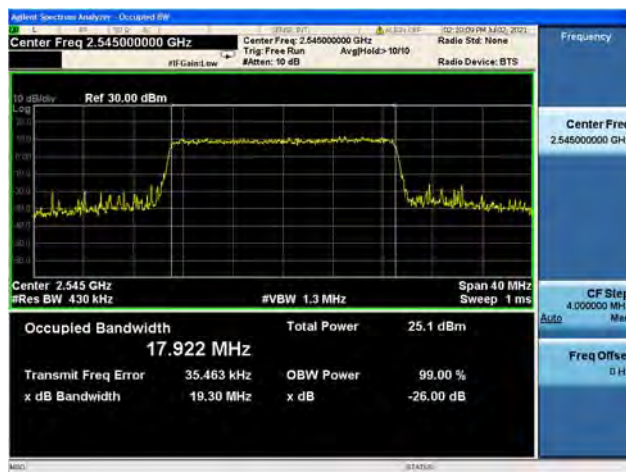
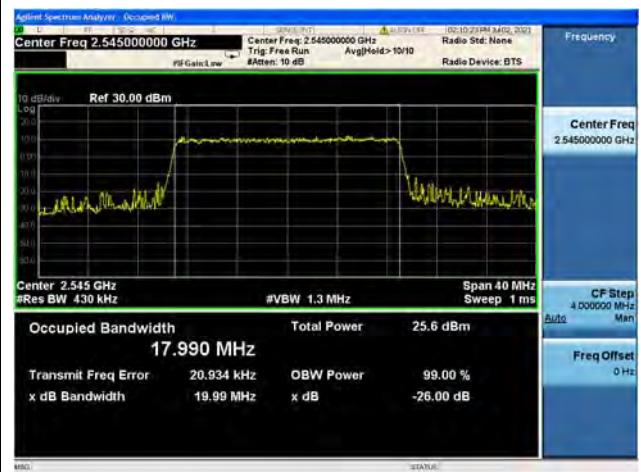




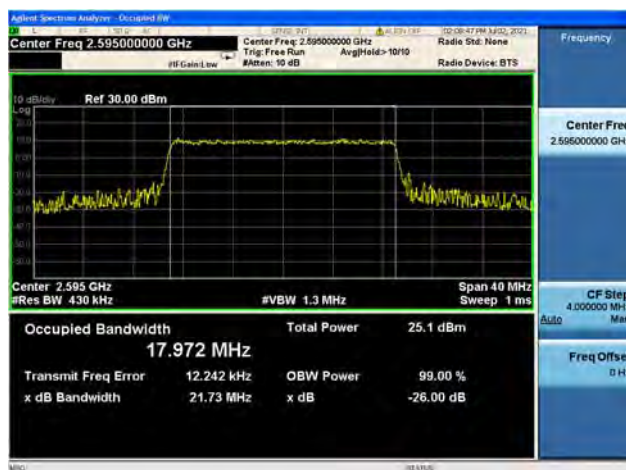
Band41 / 20MHz / Low CH / QPSK



Band41 / 20MHz / Low CH / 16QAM



Band41 / 20MHz / Mid CH / QPSK



Band41 / 20MHz / Mid CH / 16QAM



Band41 / 20MHz / High CH / QPSK



Band41 / 20MHz / High CH / 16QAM





Band66 / 1.4MHz / Low CH / QPSK



Band66 / 1.4MHz / Low CH / 16QAM



Band66 / 1.4MHz / Mid CH / QPSK



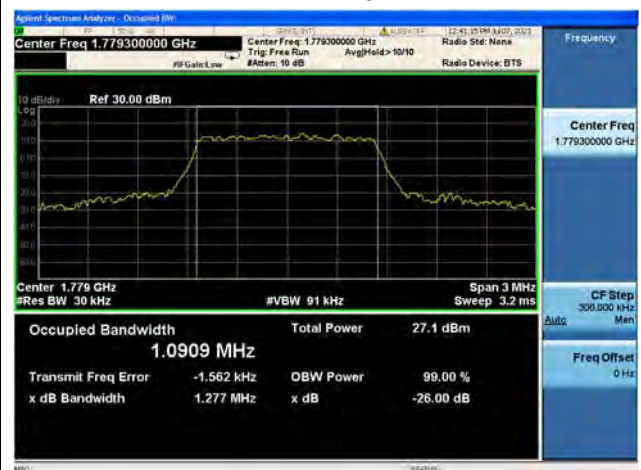
Band66 / 1.4MHz / Mid CH / 16QAM



Band66 / 1.4MHz / High CH / QPSK



Band66 / 1.4MHz / High CH / 16QAM





Band66 / 3MHz / Low CH / QPSK



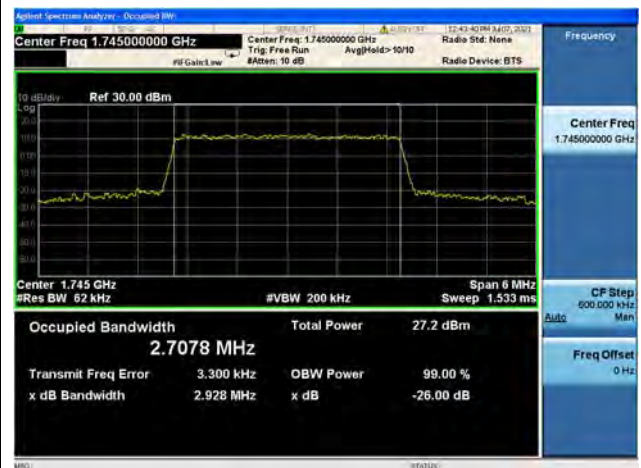
Band66 / 3MHz / Low CH / 16QAM



Band66 / 3MHz / Mid CH / QPSK



Band66 / 3MHz / Mid CH / 16QAM



Band66 / 3MHz / High CH / QPSK



Band66 / 3MHz / High CH / 16QAM

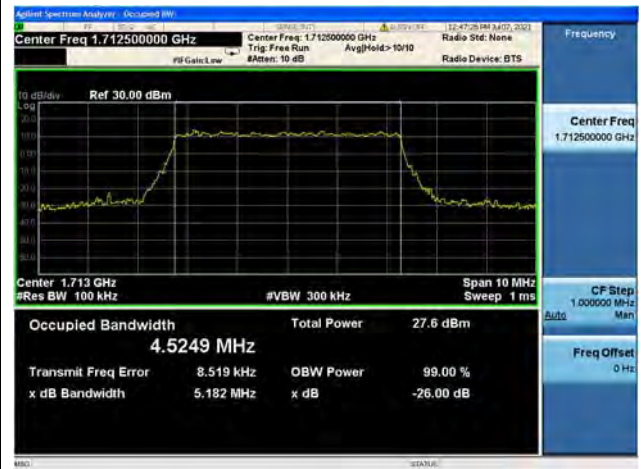




Band66 / 5MHz / Low CH / QPSK



Band66 / 5MHz / Low CH / 16QAM



Band66 / 5MHz / Mid CH / QPSK



Band66 / 5MHz / Mid CH / 16QAM



Band66 / 5MHz / High CH / QPSK



Band66 / 5MHz / High CH / 16QAM

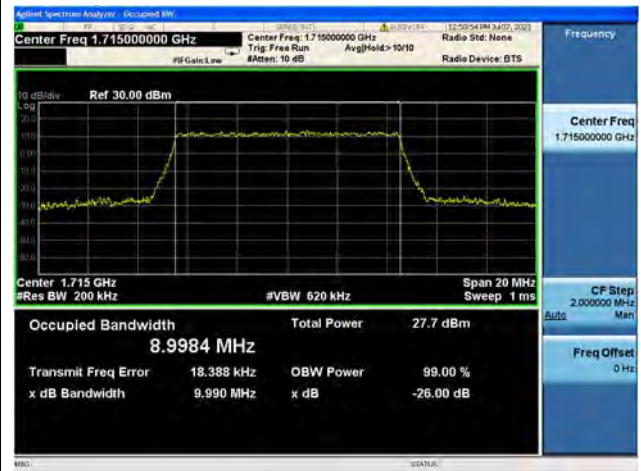




Band66 / 10MHz / Low CH / QPSK



Band66 / 10MHz / Low CH / 16QAM



Band66 / 10MHz / Mid CH / QPSK



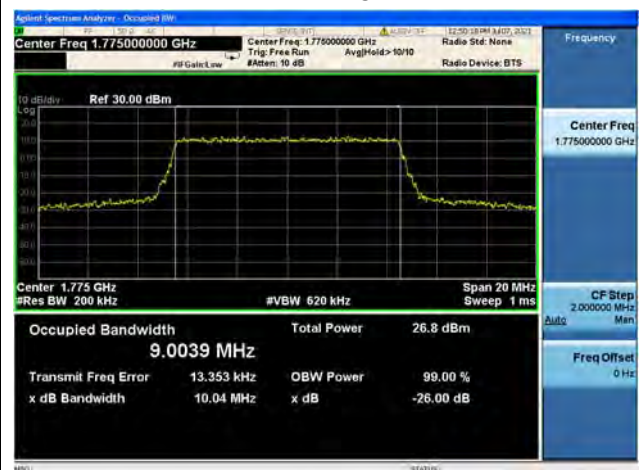
Band66 / 10MHz / Mid CH / 16QAM



Band66 / 10MHz / High CH / QPSK

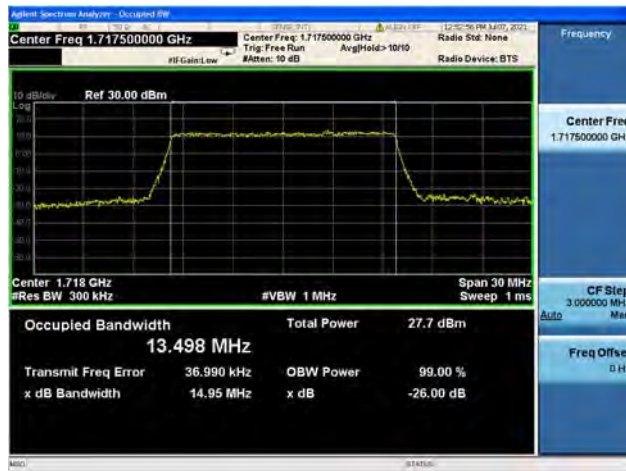


Band66 / 10MHz / High CH / 16QAM

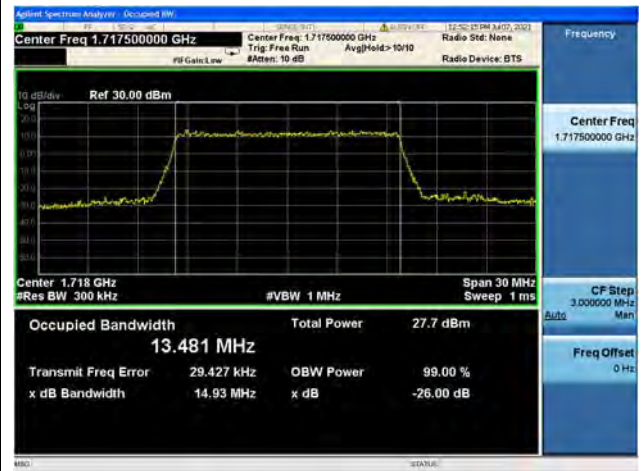




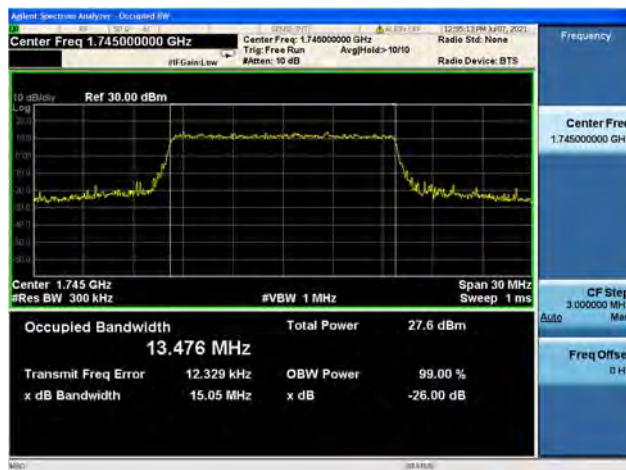
Band66 / 15MHz / Low CH / QPSK



Band66 / 15MHz / Low CH / 16QAM



Band66 / 15MHz / Mid CH / QPSK



Band66 / 15MHz / Mid CH / 16QAM



Band66 / 15MHz / High CH / QPSK



Band66 / 15MHz / High CH / 16QAM





Band66 / 20MHz / Low CH / QPSK



Band66 / 20MHz / Low CH / 16QAM



Band66 / 20MHz / Mid CH / QPSK



Band66 / 20MHz / Mid CH / 16QAM



Band66 / 20MHz / High CH / QPSK



Band66 / 20MHz / High CH / 16QAM





Band71 / 5MHz / Low CH / QPSK



Band71 / 5MHz / Low CH / 16QAM



Band71 / 5MHz / Mid CH / QPSK



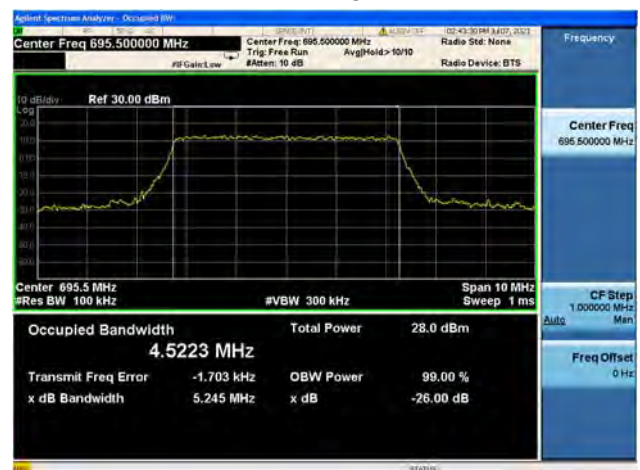
Band71 / 5MHz / Mid CH / 16QAM



Band71 / 5MHz / High CH / QPSK



Band71 / 5MHz / High CH / 16QAM





Band71 / 10MHz / Low CH / QPSK



Band71 / 10MHz / Low CH / 16QAM



Band71 / 10MHz / Mid CH / QPSK



Band71 / 10MHz / Mid CH / 16QAM



Band71 / 10MHz / High CH / QPSK



Band71 / 10MHz / High CH / 16QAM

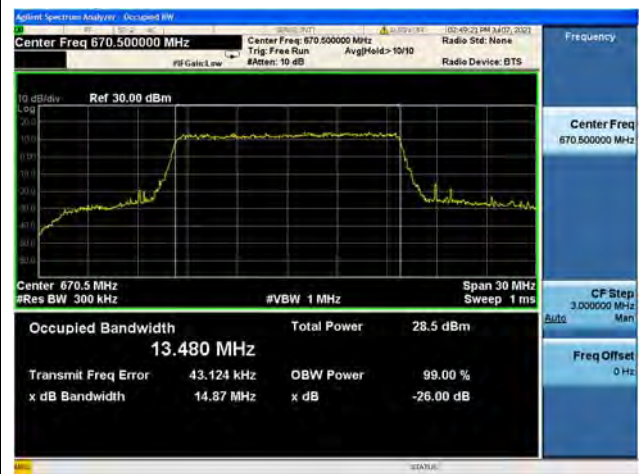




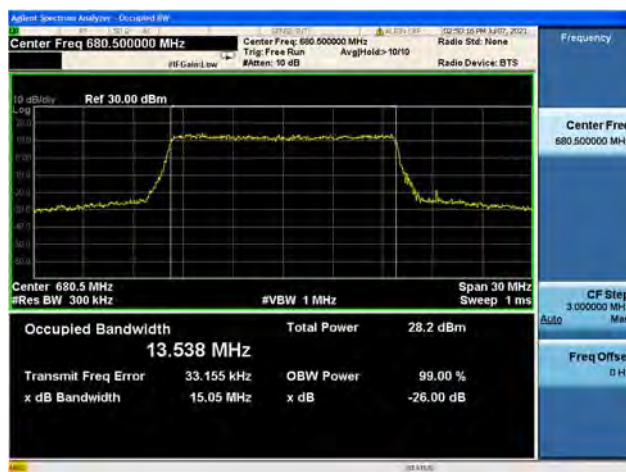
Band71 / 15MHz / Low CH / QPSK



Band71 / 15MHz / Low CH / 16QAM



Band71 / 15MHz / Mid CH / QPSK



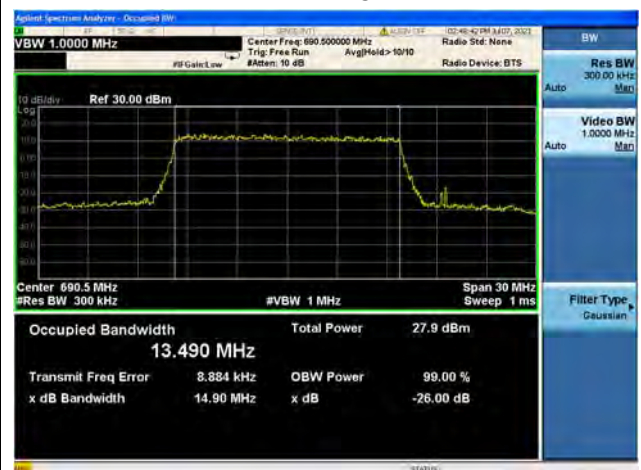
Band71 / 15MHz / Mid CH / 16QAM



Band71 / 15MHz / High CH / QPSK



Band71 / 15MHz / High CH / 16QAM





Band71 / 20MHz / Low CH / QPSK



Band71 / 20MHz / Low CH / 16QAM



Band71 / 20MHz / Mid CH / QPSK



Band71 / 20MHz / Mid CH / 16QAM



Band71 / 20MHz / High CH / QPSK



Band71 / 20MHz / High CH / 16QAM



2.3. Frequency Stability

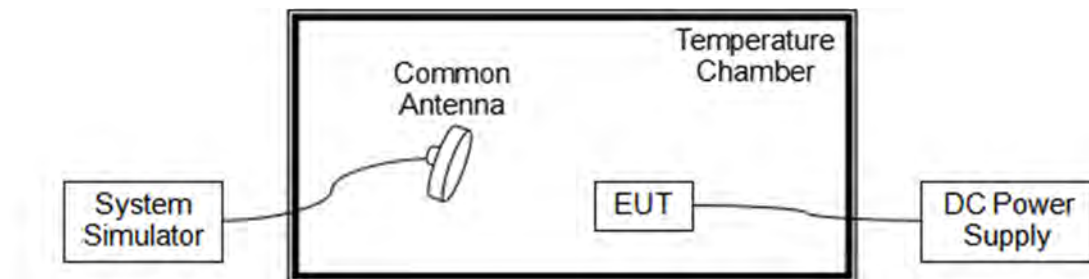
2.3.1. Requirement

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 40°C , which are specified by the applicant.

2.3.2. Test Description



The EUT which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

2.3.3. Test Procedure

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



2.3.4. Test Result

The nominal, highest and lowest extreme voltages are separately 3.85V, 4.40V and 3.00V, 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	3.85	+20(Ref)	-22	-0.012	PASS
100		-10	35	0.019	
100		0	33	0.018	
100		+10	-21	-0.011	
100		+20	14	0.007	
100		+30	35	0.019	
100		+40	-54	-0.029	
115	4.40	+20	-56	-0.030	
85	3.00	+20	-30	-0.016	

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	3.85	+20(Ref)	33	0.019	PASS
100		-10	-46	-0.027	
100		0	55	0.032	
100		+10	-19	-0.011	
100		+20	51	0.029	
100		+30	-21	-0.012	
100		+40	23	0.013	
115	4.40	+20	53	0.031	
85	3.00	+20	42	0.024	



LTE Band 5, QPSK, Channel 20525, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	-30	-0.036	PASS
100		-10	43	0.051	
100		0	47	0.056	
100		+10	39	0.047	
100		+20	21	0.025	
100		+30	-49	-0.059	
100		+40	33	0.039	
115	4.40	+20	21	0.025	
85	3.00	+20	49	0.059	

LTE Band 7, QPSK, Channel 21100, Frequency 2535.0MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	14	0.006	PASS
100		-10	48	0.019	
100		0	15	0.006	
100		+10	-57	-0.022	
100		+20	-24	-0.009	
100		+30	-17	-0.007	
100		+40	32	0.013	
115	4.40	+20	16	0.006	
85	3.00	+20	30	0.012	





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	3.85	+20(Ref)	46	0.065	PASS
100		-10	52	0.073	
100		0	-41	-0.058	
100		+10	27	0.038	
100		+20	40	0.057	
100		+30	38	0.054	
100		+40	39	0.055	
115	4.40	+20	22	0.031	PASS
85	3.00	+20	-25	-0.035	

LTE Band 13, QPSK, Channel 23230, Frequency 782MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	48	0.061	PASS
100		-10	-49	-0.063	
100		0	26	0.033	
100		+10	39	0.050	
100		+20	21	0.027	
100		+30	35	0.045	
100		+40	-58	-0.074	
115	4.40	+20	39	0.050	PASS
85	3.00	+20	-27	-0.035	



LTE Band 17, QPSK, Channel 23790, Frequency 710MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	-43	-0.061	PASS
100		-10	41	0.058	
100		0	-55	-0.077	
100		+10	-29	-0.041	
100		+20	21	0.030	
100		+30	-37	-0.052	
100		+40	-19	-0.027	
115	4.40	+20	34	0.048	PASS
85	3.00	+20	16	0.023	

LTE Band 25, QPSK, Channel 26365, Frequency 1882.5MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	51	0.027	PASS
100		-10	45	0.024	
100		0	49	0.026	
100		+10	38	0.020	
100		+20	16	0.008	
100		+30	53	0.028	
100		+40	42	0.022	
115	4.40	+20	-57	-0.030	PASS
85	3.00	+20	-29	-0.015	



LTE Band 26, QPSK, Channel 26915, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	20	0.024	PASS
100		-10	51	0.061	
100		0	-25	-0.030	
100		+10	-13	-0.016	
100		+20	-32	-0.038	
100		+30	23	0.027	
100		+40	-58	-0.069	
115	4.40	+20	45	0.054	
85	3.00	+20	33	0.039	

LTE Band 30, QPSK, Channel 27710, Frequency 2310.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	13	0.006	PASS
100		-10	35	0.015	
100		0	42	0.018	
100		+10	18	0.008	
100		+20	33	0.014	
100		+30	36	0.016	
100		+40	45	0.019	
115	4.40	+20	38	0.016	
85	3.00	+20	-26	-0.011	





LTE Band 40, Block A, QPSK, Channel 38750, Frequency 2310MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	39	0.017	PASS
100		-10	31	0.013	
100		0	-43	-0.019	
100		+10	16	0.007	
100		+20	-39	-0.017	
100		+30	36	0.016	
100		+40	-29	-0.013	
115	4.40	+20	15	0.006	PASS
85	3.00	+20	-44	-0.019	

LTE Band 40 Block B, QPSK, Channel 39200, Frequency 2355MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	47	0.020	PASS
100		-10	23	0.010	
100		0	29	0.012	
100		+10	24	0.010	
100		+20	-50	-0.021	
100		+30	-13	-0.006	
100		+40	-55	-0.023	
115	4.40	+20	23	0.010	PASS
85	3.00	+20	21	0.009	



LTE Band 41, QPSK, Channel 40620, Frequency 2593MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	-54	-0.021	PASS
100		-10	-40	-0.015	
100		0	51	0.020	
100		+10	22	0.008	
100		+20	27	0.010	
100		+30	44	0.017	
100		+40	35	0.013	
115	4.40	+20	14	0.005	PASS
85	3.00	+20	24	0.009	

LTE Band 66, QPSK, Channel 132322, Frequency 1745MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	49	0.028	PASS
100		-10	40	0.023	
100		0	55	0.032	
100		+10	-17	-0.010	
100		+20	48	0.028	
100		+30	52	0.030	
100		+40	-48	-0.028	
115	4.40	+20	45	0.026	PASS
85	3.00	+20	-37	-0.021	



REPORT No. : SZ21060226W08

LTE Band 71, QPSK, Channel 133322, Frequency 683.0MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	57	0.083	PASS
100		-10	-22	-0.032	
100		0	-42	-0.061	
100		+10	-16	-0.023	
100		+20	-51	-0.075	
100		+30	40	0.059	
100		+40	16	0.023	
115	4.40	+20	51	0.075	
85	3.00	+20	19	0.028	

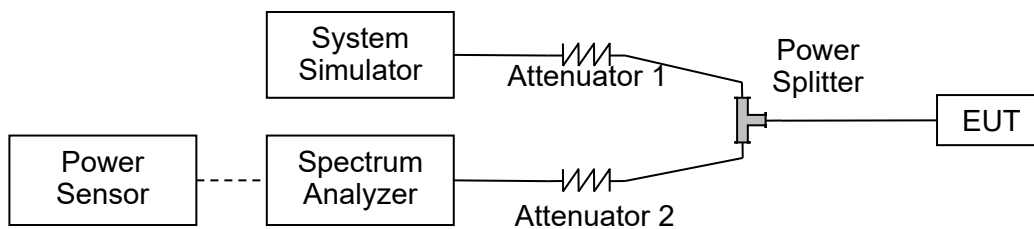


2.4. Peak to Average Radio

2.4.1. Requirement

According to FCC section 24.232(d), 27.50(d) and 27.50(j)(4), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

2.4.2. Test Description



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

2.4.3. Test Procedure

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

2.4.4. Test Result

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



LTE Band 2					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	4.51	<=13	PASS
	Low	16QAM	5.45	<=13	PASS
	Mid	QPSK	5.03	<=13	PASS
	Mid	16QAM	5.82	<=13	PASS
	High	QPSK	4.98	<=13	PASS
	High	16QAM	5.78	<=13	PASS
3	Low	QPSK	4.71	<=13	PASS
	Low	16QAM	5.56	<=13	PASS
	Mid	QPSK	5.09	<=13	PASS
	Mid	16QAM	5.88	<=13	PASS
	High	QPSK	4.95	<=13	PASS
	High	16QAM	5.84	<=13	PASS
5	Low	QPSK	4.97	<=13	PASS
	Low	16QAM	5.71	<=13	PASS
	Mid	QPSK	5.36	<=13	PASS
	Mid	16QAM	6.06	<=13	PASS
	High	QPSK	5.33	<=13	PASS
	High	16QAM	6.0	<=13	PASS
10	Low	QPSK	5.16	<=13	PASS
	Low	16QAM	5.79	<=13	PASS
	Mid	QPSK	5.34	<=13	PASS
	Mid	16QAM	6.0	<=13	PASS
	High	QPSK	5.44	<=13	PASS
	High	16QAM	6.03	<=13	PASS
15	Low	QPSK	5.02	<=13	PASS
	Low	16QAM	5.76	<=13	PASS
	Mid	QPSK	5.15	<=13	PASS
	Mid	16QAM	5.88	<=13	PASS
	High	QPSK	5.21	<=13	PASS
	High	16QAM	5.87	<=13	PASS
20	Low	QPSK	5.23	<=13	PASS
	Low	16QAM	5.97	<=13	PASS
	Mid	QPSK	5.23	<=13	PASS
	Mid	16QAM	5.97	<=13	PASS
	High	QPSK	5.29	<=13	PASS
	High	16QAM	6.03	<=13	PASS



LTE Band 4					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	5.27	<=13	PASS
	Low	16QAM	6.05	<=13	PASS
	Mid	QPSK	5.0	<=13	PASS
	Mid	16QAM	5.78	<=13	PASS
	High	QPSK	4.72	<=13	PASS
	High	16QAM	5.57	<=13	PASS
3	Low	QPSK	5.31	<=13	PASS
	Low	16QAM	6.17	<=13	PASS
	Mid	QPSK	5.08	<=13	PASS
	Mid	16QAM	5.89	<=13	PASS
	High	QPSK	4.81	<=13	PASS
	High	16QAM	5.68	<=13	PASS
5	Low	QPSK	5.64	<=13	PASS
	Low	16QAM	6.17	<=13	PASS
	Mid	QPSK	5.29	<=13	PASS
	Mid	16QAM	5.95	<=13	PASS
	High	QPSK	5.18	<=13	PASS
	High	16QAM	5.79	<=13	PASS
10	Low	QPSK	5.56	<=13	PASS
	Low	16QAM	6.19	<=13	PASS
	Mid	QPSK	5.3	<=13	PASS
	Mid	16QAM	5.96	<=13	PASS
	High	QPSK	5.18	<=13	PASS
	High	16QAM	5.82	<=13	PASS
15	Low	QPSK	5.43	<=13	PASS
	Low	16QAM	6.11	<=13	PASS
	Mid	QPSK	5.79	<=13	PASS
	Mid	16QAM	5.84	<=13	PASS
	High	QPSK	4.86	<=13	PASS
	High	16QAM	5.59	<=13	PASS
20	Low	QPSK	5.47	<=13	PASS
	Low	16QAM	6.17	<=13	PASS
	Mid	QPSK	5.21	<=13	PASS
	Mid	16QAM	5.97	<=13	PASS
	High	QPSK	4.96	<=13	PASS
	High	16QAM	5.77	<=13	PASS



LTE Band 25					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	4.5	<=13	PASS
	Low	16QAM	5.39	<=13	PASS
	Mid	QPSK	4.86	<=13	PASS
	Mid	16QAM	5.64	<=13	PASS
	High	QPSK	3.9	<=13	PASS
	High	16QAM	4.82	<=13	PASS
3	Low	QPSK	4.58	<=13	PASS
	Low	16QAM	5.51	<=13	PASS
	Mid	QPSK	4.93	<=13	PASS
	Mid	16QAM	5.81	<=13	PASS
	High	QPSK	4.46	<=13	PASS
	High	16QAM	5.31	<=13	PASS
5	Low	QPSK	5.0	<=13	PASS
	Low	16QAM	5.68	<=13	PASS
	Mid	QPSK	5.25	<=13	PASS
	Mid	16QAM	5.9	<=13	PASS
	High	QPSK	5.04	<=13	PASS
	High	16QAM	5.71	<=13	PASS
10	Low	QPSK	5.06	<=13	PASS
	Low	16QAM	5.78	<=13	PASS
	Mid	QPSK	5.28	<=13	PASS
	Mid	16QAM	5.94	<=13	PASS
	High	QPSK	5.17	<=13	PASS
	High	16QAM	5.86	<=13	PASS
15	Low	QPSK	5.11	<=13	PASS
	Low	16QAM	5.72	<=13	PASS
	Mid	QPSK	5.09	<=13	PASS
	Mid	16QAM	5.81	<=13	PASS
	High	QPSK	5.13	<=13	PASS
	High	16QAM	5.86	<=13	PASS
20	Low	QPSK	5.2	<=13	PASS
	Low	16QAM	5.96	<=13	PASS
	Mid	QPSK	5.2	<=13	PASS
	Mid	16QAM	5.92	<=13	PASS
	High	QPSK	5.26	<=13	PASS
	High	16QAM	6.01	<=13	PASS

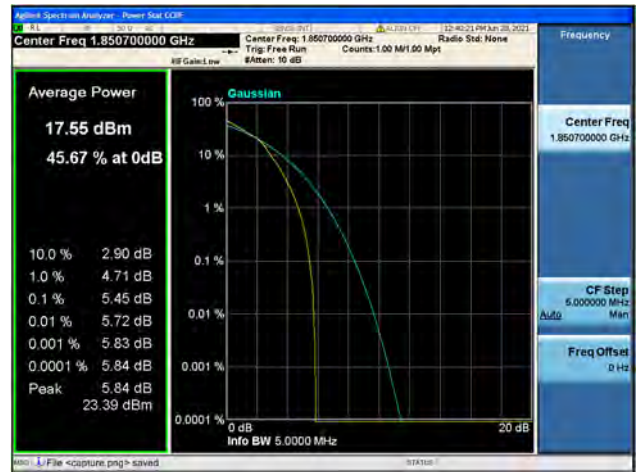


LTE Band 66					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	5.02	<=13	PASS
	Low	16QAM	6.02	<=13	PASS
	Mid	QPSK	4.54	<=13	PASS
	Mid	16QAM	5.35	<=13	PASS
	High	QPSK	4.70	<=13	PASS
	High	16QAM	5.54	<=13	PASS
3	Low	QPSK	5.34	<=13	PASS
	Low	16QAM	6.11	<=13	PASS
	Mid	QPSK	4.61	<=13	PASS
	Mid	16QAM	5.51	<=13	PASS
	High	QPSK	4.92	<=13	PASS
	High	16QAM	5.74	<=13	PASS
5	Low	QPSK	5.53	<=13	PASS
	Low	16QAM	6.17	<=13	PASS
	Mid	QPSK	5.01	<=13	PASS
	Mid	16QAM	5.72	<=13	PASS
	High	QPSK	5.13	<=13	PASS
	High	16QAM	5.91	<=13	PASS
10	Low	QPSK	5.55	<=13	PASS
	Low	16QAM	6.58	<=13	PASS
	Mid	QPSK	5.06	<=13	PASS
	Mid	16QAM	5.77	<=13	PASS
	High	QPSK	5.31	<=13	PASS
	High	16QAM	5.94	<=13	PASS
15	Low	QPSK	5.80	<=13	PASS
	Low	16QAM	6.13	<=13	PASS
	Mid	QPSK	4.82	<=13	PASS
	Mid	16QAM	5.51	<=13	PASS
	High	QPSK	5.09	<=13	PASS
	High	16QAM	6.03	<=13	PASS
20	Low	QPSK	5.56	<=13	PASS
	Low	16QAM	6.16	<=13	PASS
	Mid	QPSK	5.00	<=13	PASS
	Mid	16QAM	5.79	<=13	PASS
	High	QPSK	5.21	<=13	PASS
	High	16QAM	5.99	<=13	PASS

Band2 / 1.4MHz / Low CH / QPSK



Band2 / 1.4MHz / Low CH / 16QAM



Band2 / 1.4MHz / Mid CH / QPSK



Band2 / 1.4MHz / Mid CH / 16QAM



Band2 / 1.4MHz / High CH / QPSK

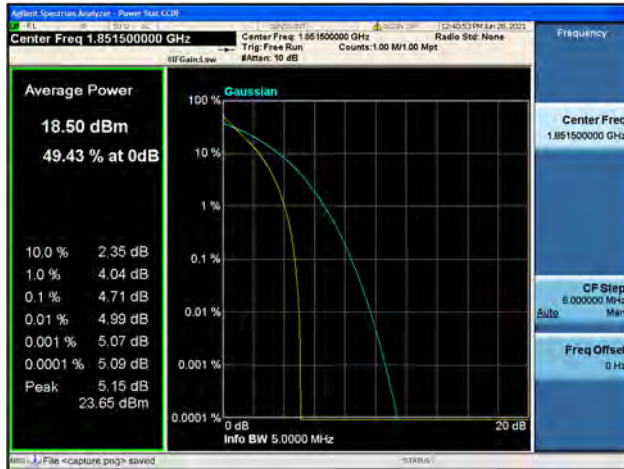


Band2 / 1.4MHz / High CH / 16QAM





Band2 / 3MHz / Low CH / QPSK



Band2 / 3MHz / Low CH / 16QAM



Band2 / 3MHz / Mid CH / QPSK



Band2 / 3MHz / Mid CH / 16QAM



Band2 / 3MHz / High CH / QPSK



Band2 / 3MHz / High CH / 16QAM





Band2 / 5MHz / Low CH / QPSK



Band2 / 5MHz / Low CH / 16QAM



Band2 / 5MHz / Mid CH / QPSK



Band2 / 5MHz / Mid CH / 16QAM



Band2 / 5MHz / High CH / QPSK



Band2 / 5MHz / High CH / 16QAM

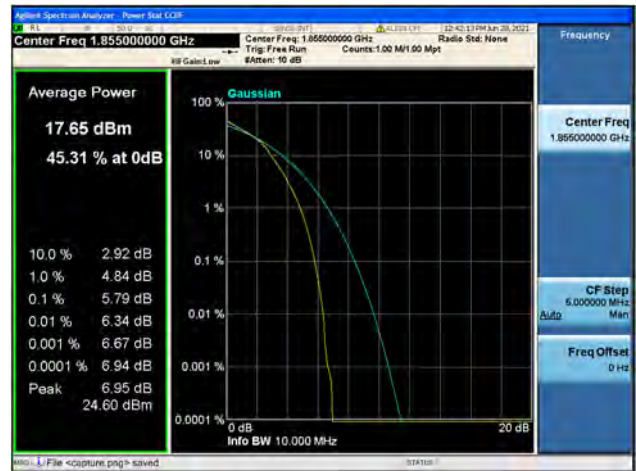




Band2 / 10MHz / Low CH / QPSK



Band2 / 10MHz / Low CH / 16QAM



Band2 / 10MHz / Mid CH / QPSK



Band2 / 10MHz / Mid CH / 16QAM



Band2 / 10MHz / High CH / QPSK



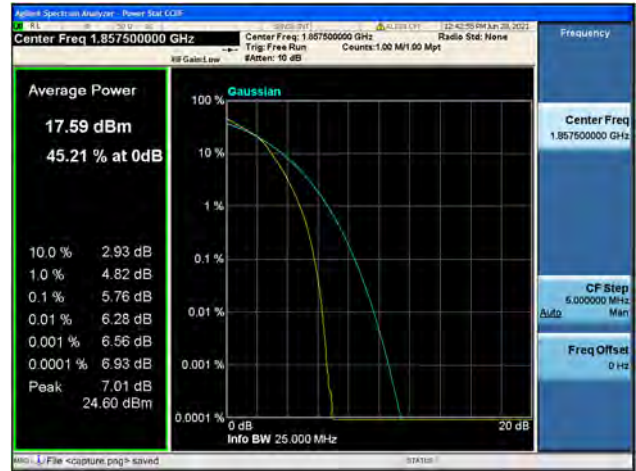
Band2 / 10MHz / High CH / 16QAM



Band2 / 15MHz / Low CH / QPSK



Band2 / 15MHz / Low CH / 16QAM



Band2 / 15MHz / Mid CH / QPSK



Band2 / 15MHz / Mid CH / 16QAM



Band2 / 15MHz / High CH / QPSK



Band2 / 15MHz / High CH / 16QAM

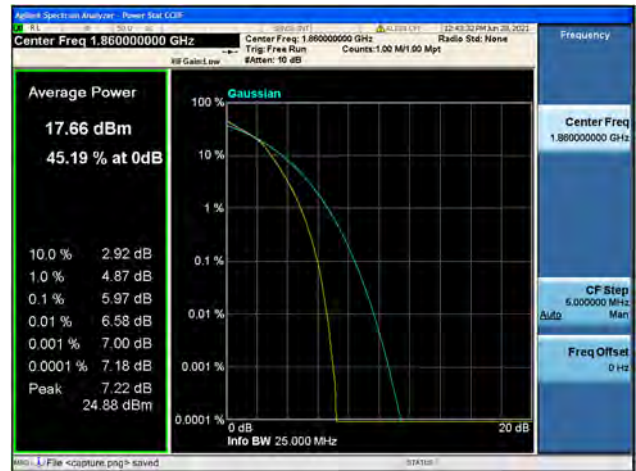




Band2 / 20MHz / Low CH / QPSK



Band2 / 20MHz / Low CH / 16QAM



Band2 / 20MHz / Mid CH / QPSK



Band2 / 20MHz / Mid CH / 16QAM



Band2 / 20MHz / High CH / QPSK



Band2 / 20MHz / High CH / 16QAM

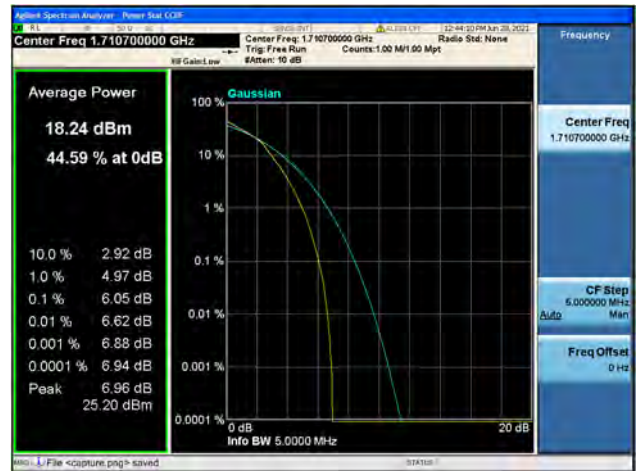




Band4 / 1.4MHz / Low CH / QPSK



Band4 / 1.4MHz / Low CH / 16QAM



Band4 / 1.4MHz / Mid CH / QPSK



Band4 / 1.4MHz / Mid CH / 16QAM



Band4 / 1.4MHz / High CH / QPSK



Band4 / 1.4MHz / High CH / 16QAM





Band4 / 3MHz / Low CH / QPSK



Band4 / 3MHz / Low CH / 16QAM



Band4 / 3MHz / Mid CH / QPSK



Band4 / 3MHz / Mid CH / 16QAM



Band4 / 3MHz / High CH / QPSK



Band4 / 3MHz / High CH / 16QAM

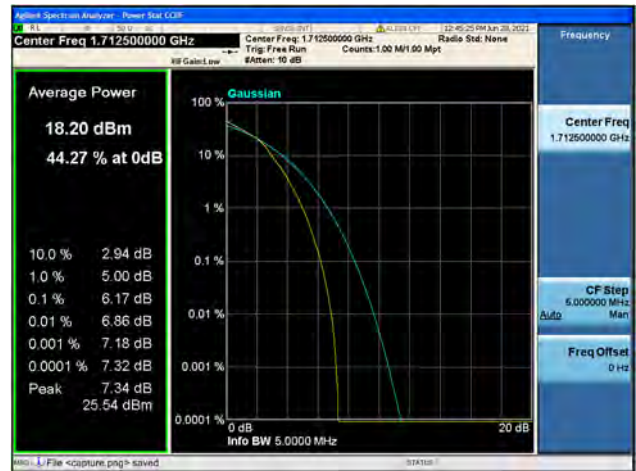




Band4 / 5MHz / Low CH / QPSK



Band4 / 5MHz / Low CH / 16QAM



Band4 / 5MHz / Mid CH / QPSK



Band4 / 5MHz / Mid CH / 16QAM



Band4 / 5MHz / High CH / QPSK



Band4 / 5MHz / High CH / 16QAM

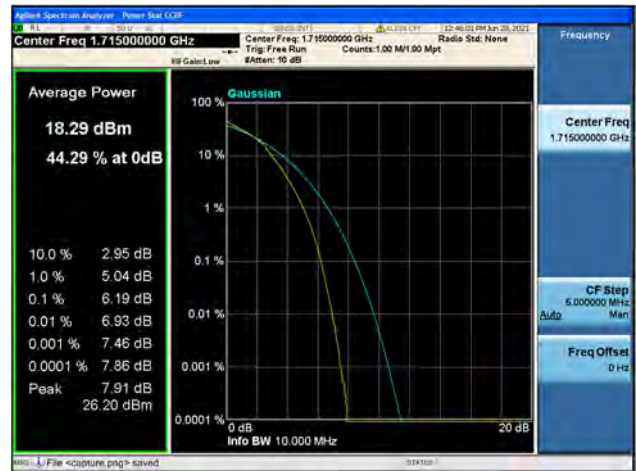




Band4 / 10MHz / Low CH / QPSK



Band4 / 10MHz / Low CH / 16QAM



Band4 / 10MHz / Mid CH / QPSK



Band4 / 10MHz / Mid CH / 16QAM



Band4 / 10MHz / High CH / QPSK



Band4 / 10MHz / High CH / 16QAM



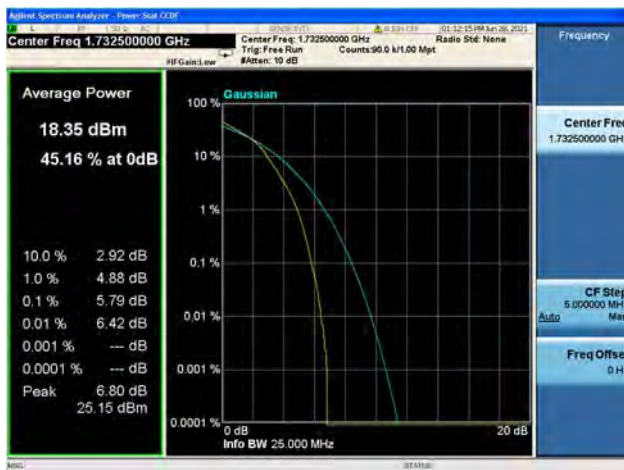
Band4 / 15MHz / Low CH / QPSK



Band4 / 15MHz / Low CH / 16QAM



Band4 / 15MHz / Mid CH / QPSK



Band4 / 15MHz / Mid CH / 16QAM



Band4 / 15MHz / High CH / QPSK



Band4 / 15MHz / High CH / 16QAM





Band4 / 20MHz / Low CH / QPSK



Band4 / 20MHz / Low CH / 16QAM



Band4 / 20MHz / Mid CH / QPSK



Band4 / 20MHz / Mid CH / 16QAM



Band4 / 20MHz / High CH / QPSK



Band4 / 20MHz / High CH / 16QAM





Band25 / 1.4MHz / Low CH / QPSK



Band25 / 1.4MHz / Low CH / 16QAM



Band25 / 1.4MHz / Mid CH / QPSK



Band25 / 1.4MHz / Mid CH / 16QAM



Band25 / 1.4MHz / High CH / QPSK



Band25 / 1.4MHz / High CH / 16QAM

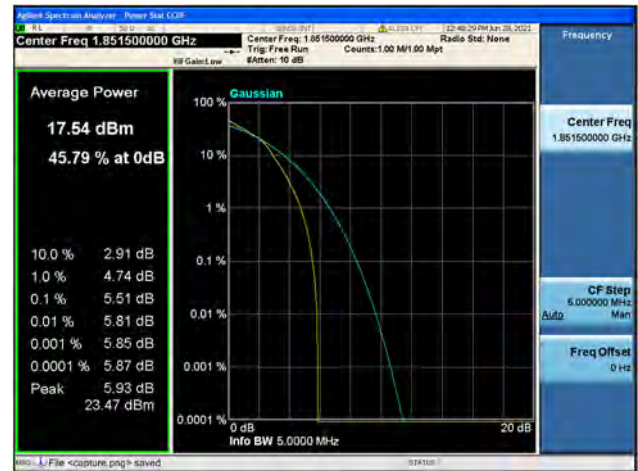




Band25 / 3MHz / Low CH / QPSK



Band25 / 3MHz / Low CH / 16QAM



Band25 / 3MHz / Mid CH / QPSK



Band25 / 3MHz / Mid CH / 16QAM



Band25 / 3MHz / High CH / QPSK



Band25 / 3MHz / High CH / 16QAM





Band25 / 5MHz / Low CH / QPSK



Band25 / 5MHz / Low CH / 16QAM



Band25 / 5MHz / Mid CH / QPSK



Band25 / 5MHz / Mid CH / 16QAM



Band25 / 5MHz / High CH / QPSK



Band25 / 5MHz / High CH / 16QAM





Band25 / 10MHz / Low CH / QPSK



Band25 / 10MHz / Low CH / 16QAM



Band25 / 10MHz / Mid CH / QPSK



Band25 / 10MHz / Mid CH / 16QAM



Band25 / 10MHz / High CH / QPSK



Band25 / 10MHz / High CH / 16QAM





Band25 / 15MHz / Low CH / QPSK



Band25 / 15MHz / Low CH / 16QAM



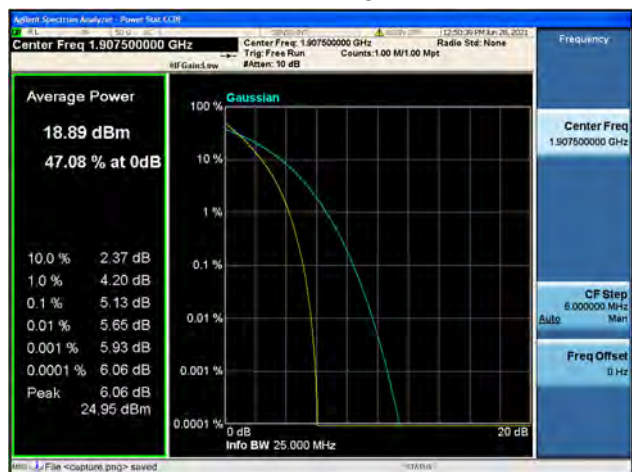
Band25 / 15MHz / Mid CH / QPSK



Band25 / 15MHz / Mid CH / 16QAM



Band25 / 15MHz / High CH / QPSK



Band25 / 15MHz / High CH / 16QAM





Band25 / 20MHz / Low CH / QPSK



Band25 / 20MHz / Low CH / 16QAM



Band25 / 20MHz / Mid CH / QPSK



Band25 / 20MHz / Mid CH / 16QAM



Band25 / 20MHz / High CH / QPSK

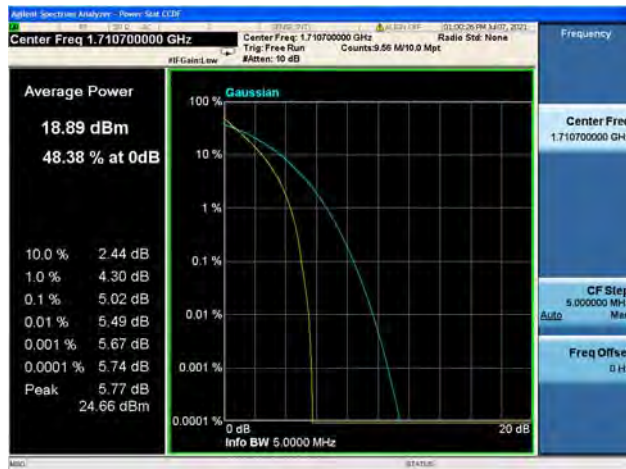


Band25 / 20MHz / High CH / 16QAM





Band66 / 1.4MHz / Low CH / QPSK



Band66 / 1.4MHz / Low CH / 16QAM



Band66 / 1.4MHz / Mid CH / QPSK



Band66 / 1.4MHz / Mid CH / 16QAM



Band66 / 1.4MHz / High CH / QPSK

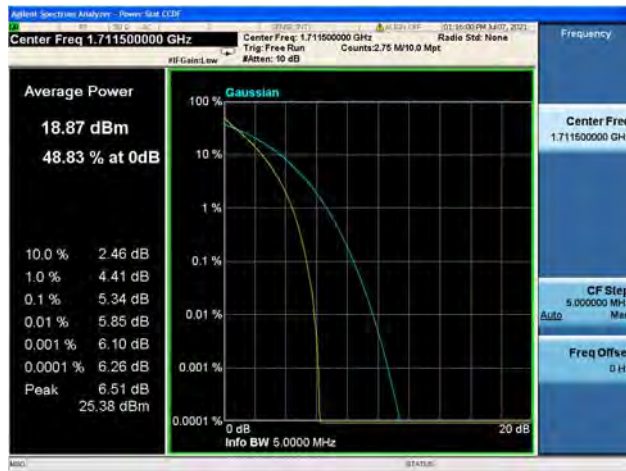


Band66 / 1.4MHz / High CH / 16QAM





Band66 / 3MHz / Low CH / QPSK



Band66 / 3MHz / Low CH / 16QAM



Band66 / 3MHz / Mid CH / QPSK



Band66 / 3MHz / Mid CH / 16QAM



Band66 / 3MHz / High CH / QPSK

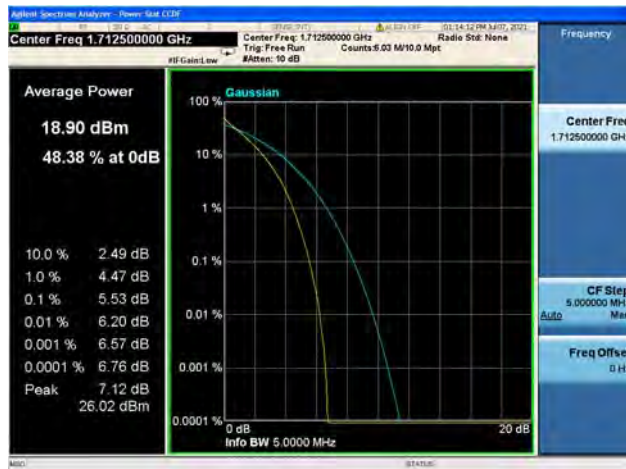


Band66 / 3MHz / High CH / 16QAM





Band66 / 5MHz / Low CH / QPSK



Band66 / 5MHz / Low CH / 16QAM



Band66 / 5MHz / Mid CH / QPSK



Band66 / 5MHz / Mid CH / 16QAM



Band66 / 5MHz / High CH / QPSK

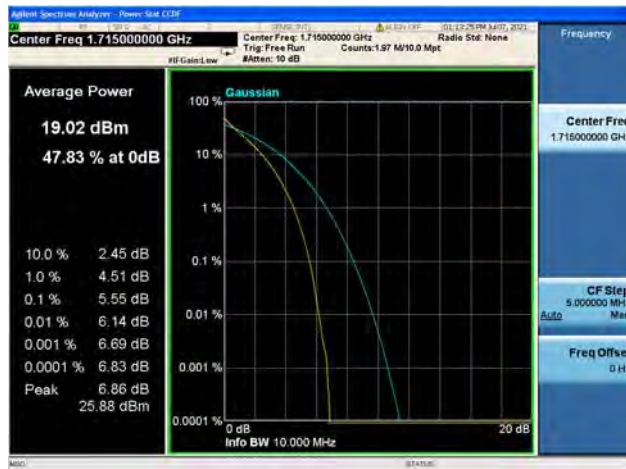


Band66 / 5MHz / High CH / 16QAM





Band66 / 10MHz / Low CH / QPSK



Band66 / 10MHz / Low CH / 16QAM



Band66 / 10MHz / Mid CH / QPSK



Band66 / 10MHz / Mid CH / 16QAM



Band66 / 10MHz / High CH / QPSK

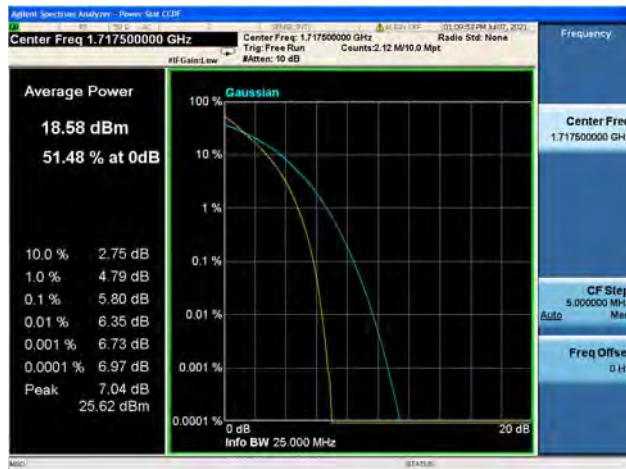


Band66 / 10MHz / High CH / 16QAM





Band66 / 15MHz / Low CH / QPSK



Band66 / 15MHz / Low CH / 16QAM



Band66 / 15MHz / Mid CH / QPSK



Band66 / 15MHz / Mid CH / 16QAM



Band66 / 15MHz / High CH / QPSK

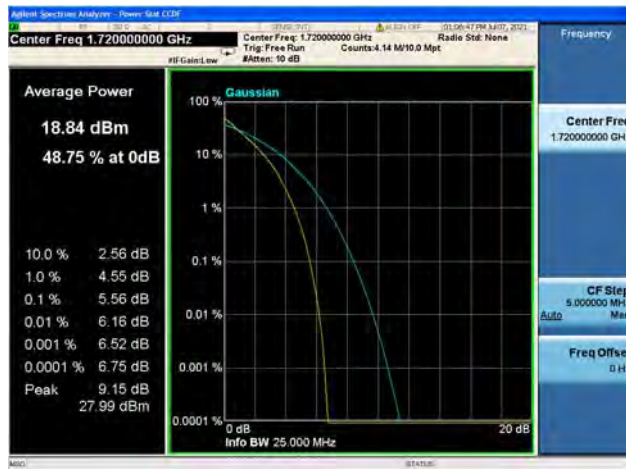


Band66 / 15MHz / High CH / 16QAM





Band66 / 20MHz / Low CH / QPSK



Band66 / 20MHz / Low CH / 16QAM



Band66 / 20MHz / Mid CH / QPSK



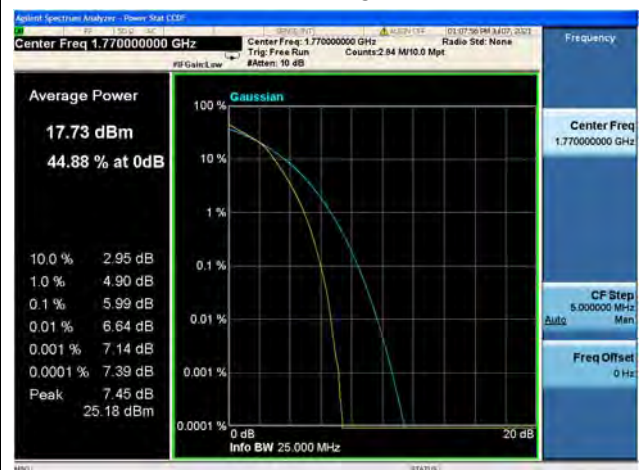
Band66 / 20MHz / Mid CH / 16QAM



Band66 / 20MHz / High CH / QPSK



Band66 / 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 7/41:

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.

Additional requirement for LTE Band 30:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $70 + 10 \log(P)$ dB. This calculated to be -40dBm.

Additional requirement for LTE Band 40:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $70 + 10 \log(P)$ dB. This calculated to be -40dBm.

2.5.2. Test Description

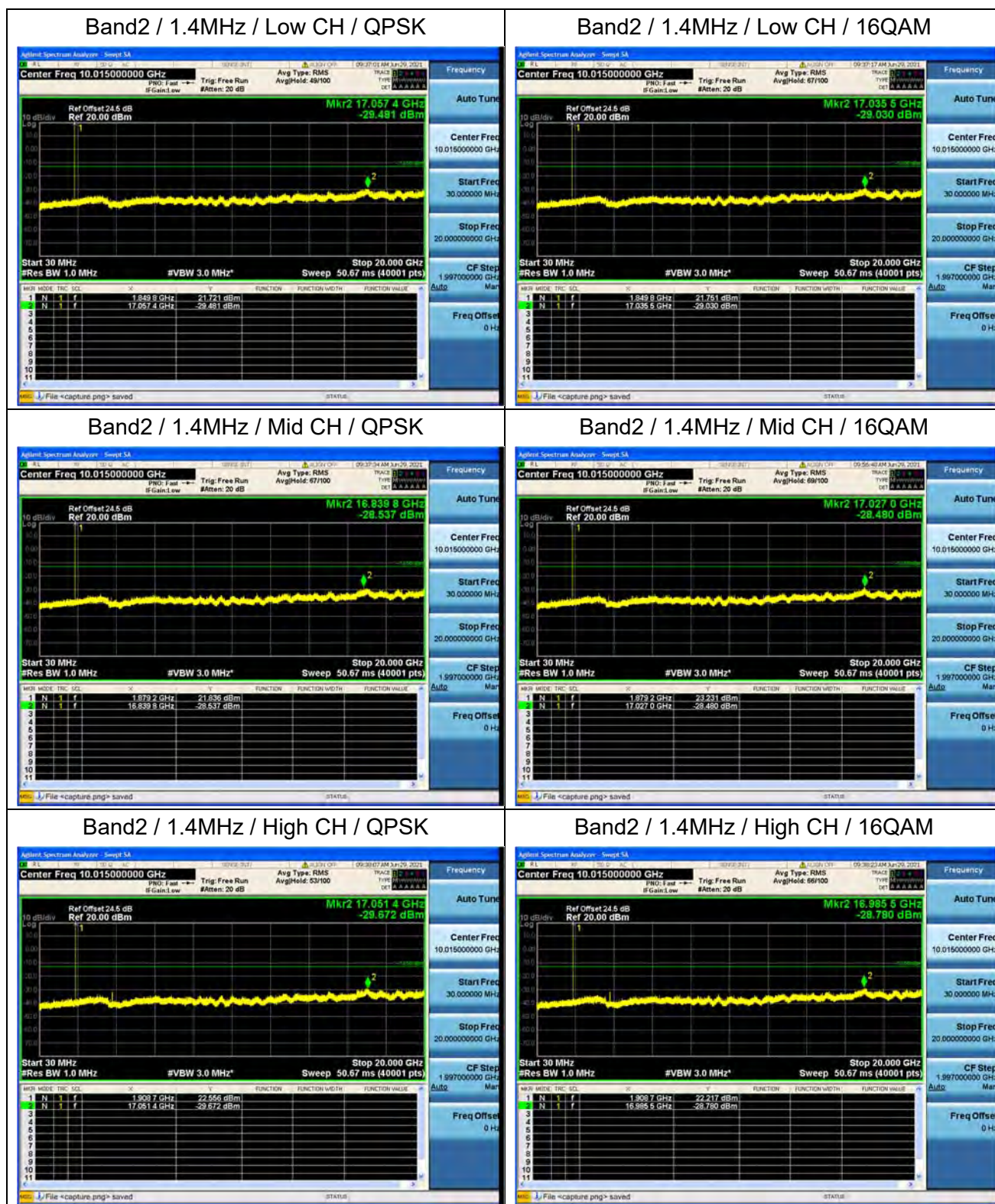
S
P
E
R
A
+

Attenuator 1

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.

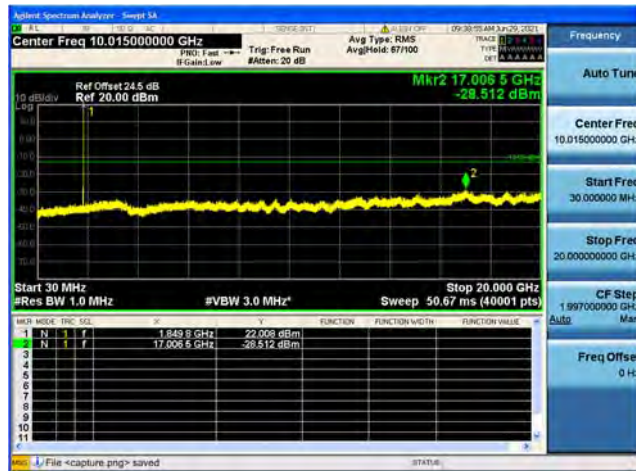
2.5.3. Test Procedure

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

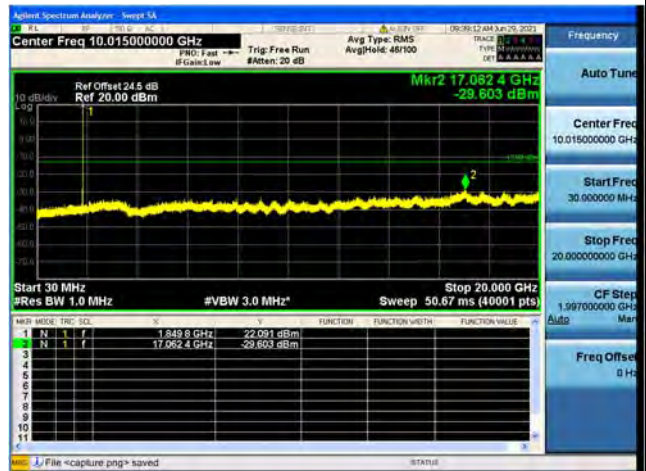




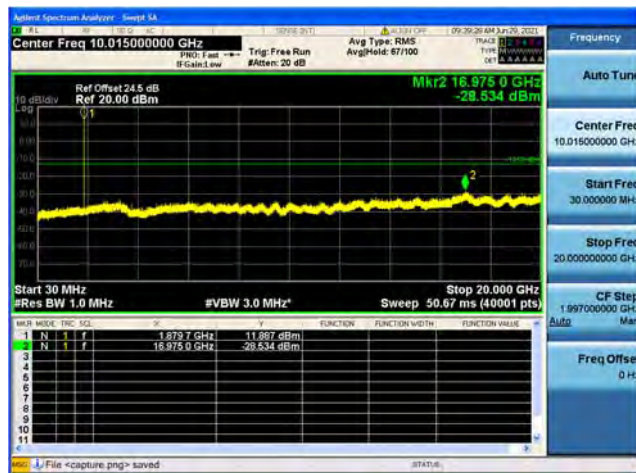
Band2 / 3MHz / Low CH / QPSK



Band2 / 3MHz / Low CH / 16QAM



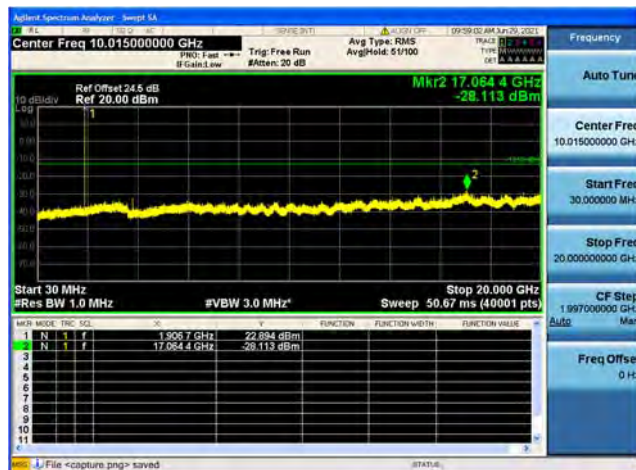
Band2 / 3MHz / Mid CH / QPSK



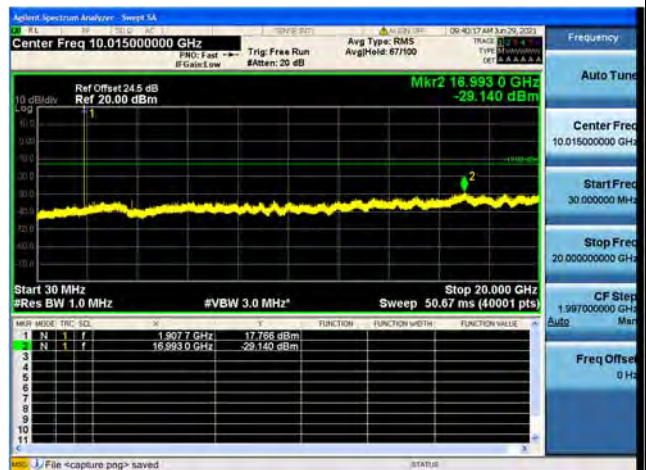
Band2 / 3MHz / Mid CH / 16QAM



Band2 / 3MHz / High CH / QPSK

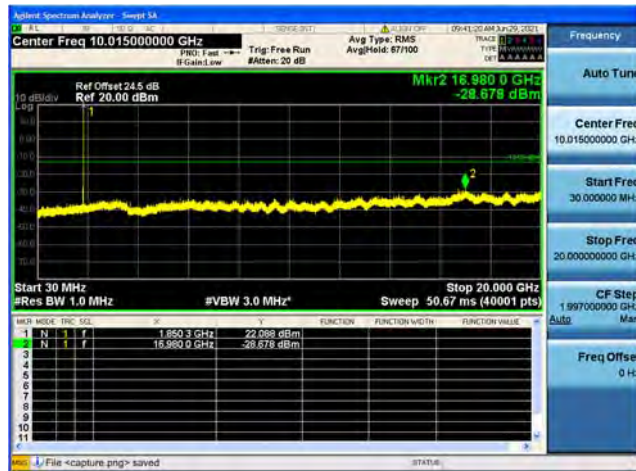


Band2 / 3MHz / High CH / 16QAM

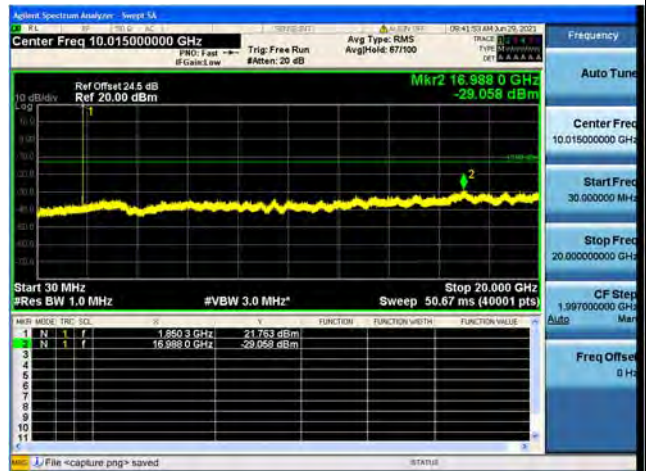




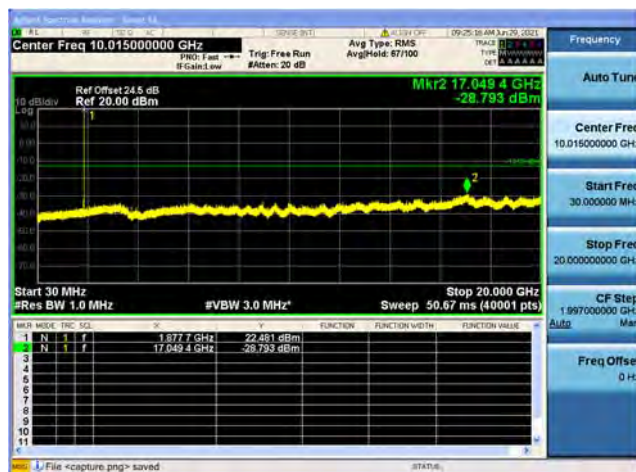
Band2 / 5MHz / Low CH / QPSK



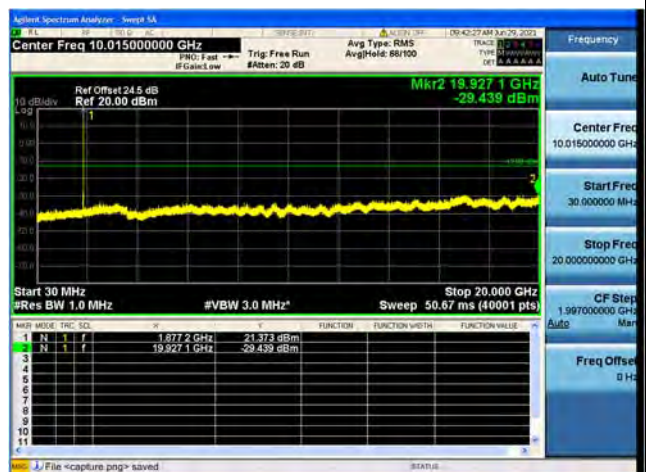
Band2 / 5MHz / Low CH / 16QAM



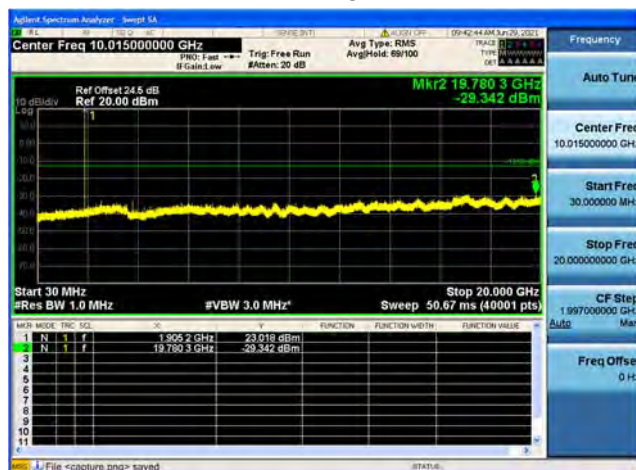
Band2 / 5MHz / Mid CH / QPSK



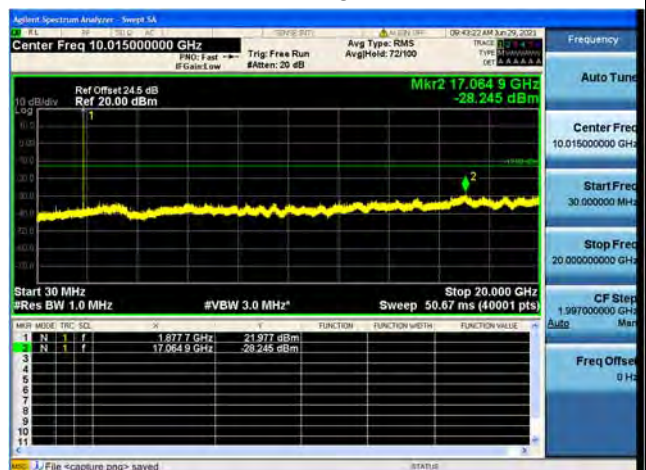
Band2 / 5MHz / Mid CH / 16QAM



Band2 / 5MHz / High CH / QPSK

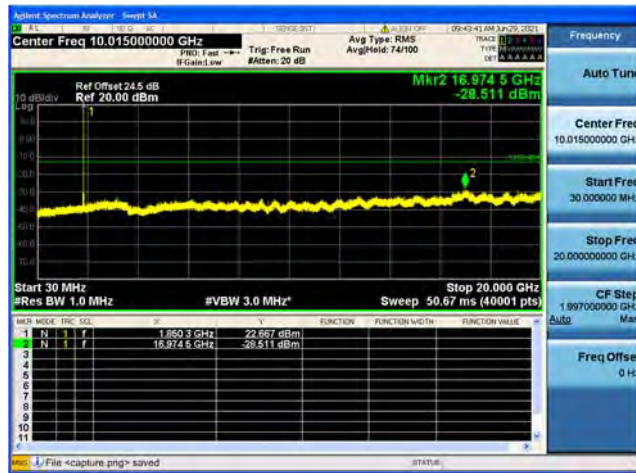


Band2 / 5MHz / High CH / 16QAM

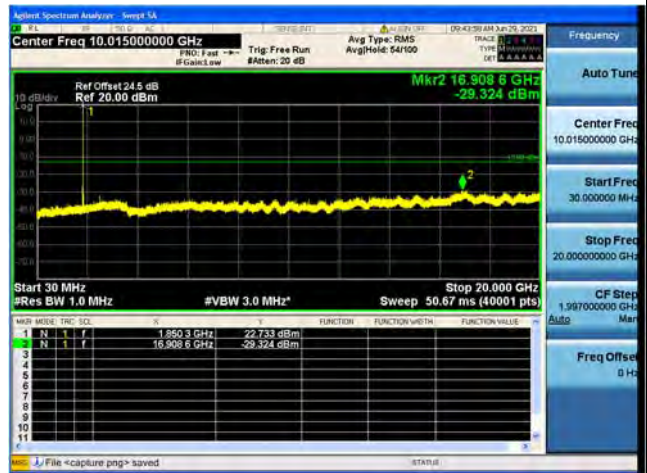




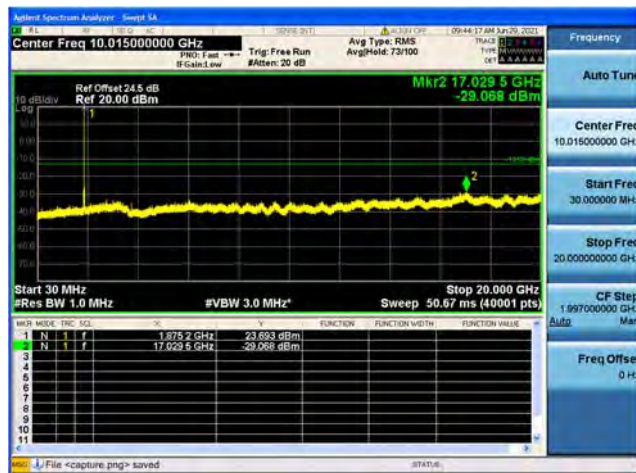
Band2 / 10MHz / Low CH / QPSK



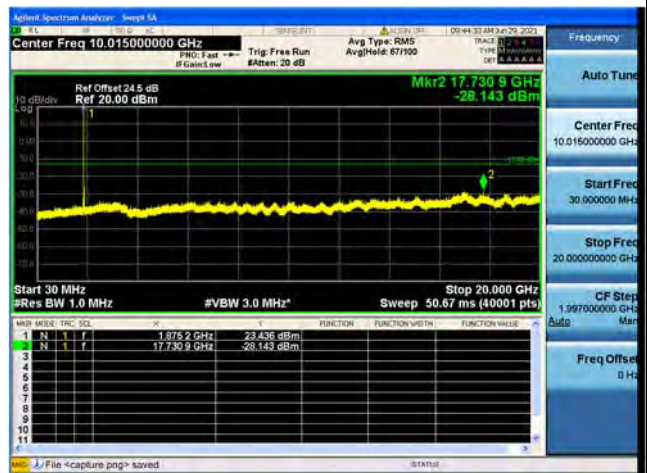
Band2 / 10MHz / Low CH / 16QAM



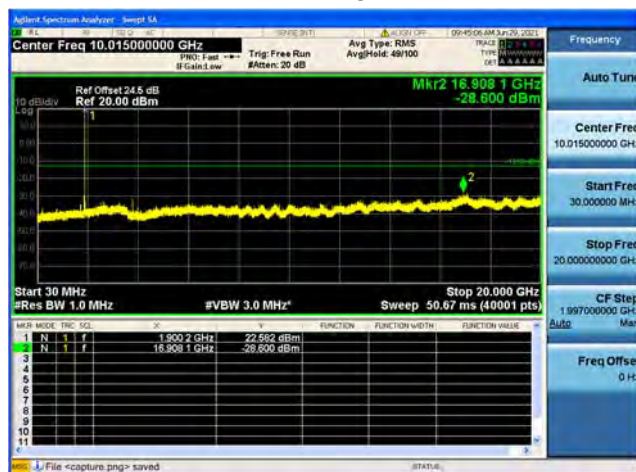
Band2 / 10MHz / Mid CH / QPSK



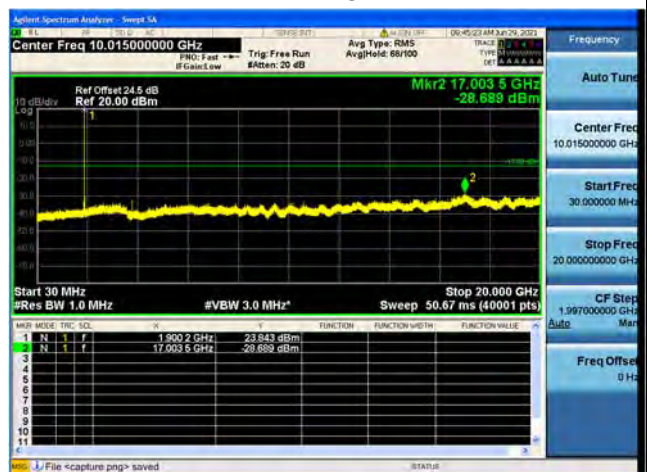
Band2 / 10MHz / Mid CH / 16QAM



Band2 / 10MHz / High CH / QPSK

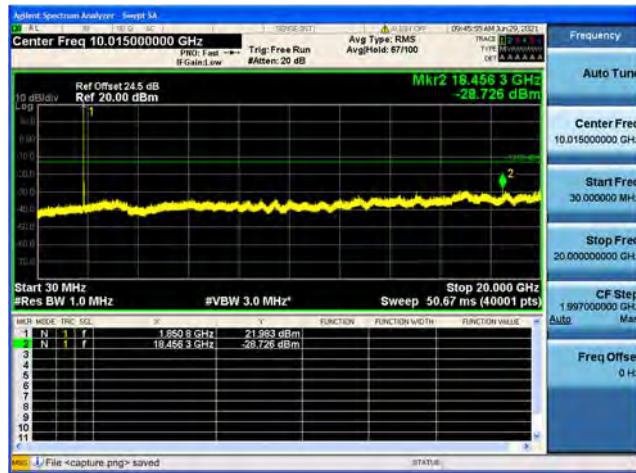


Band2 / 10MHz / High CH / 16QAM





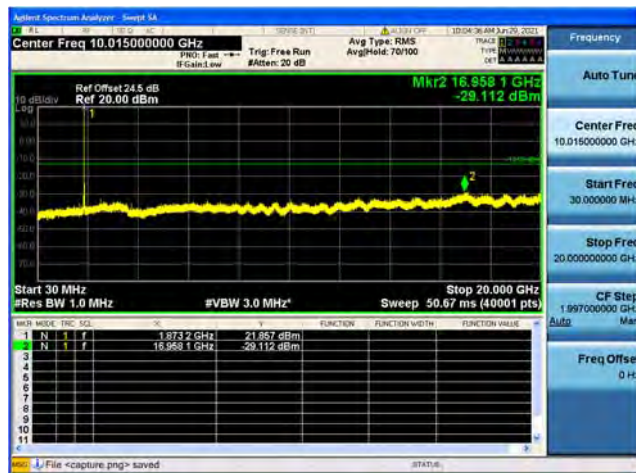
Band2 / 15MHz / Low CH / QPSK



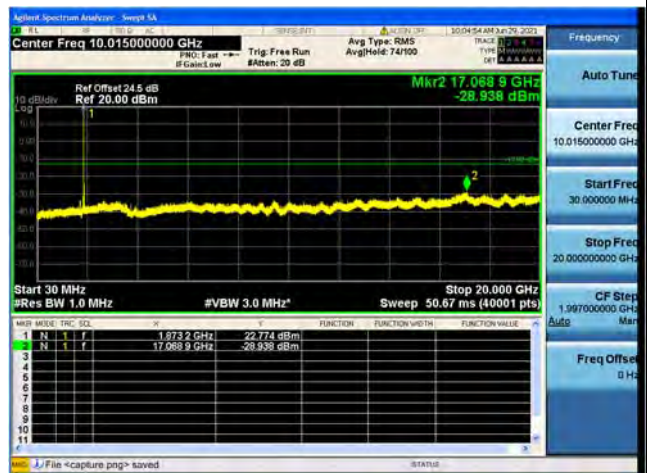
Band2 / 15MHz / Low CH / 16QAM



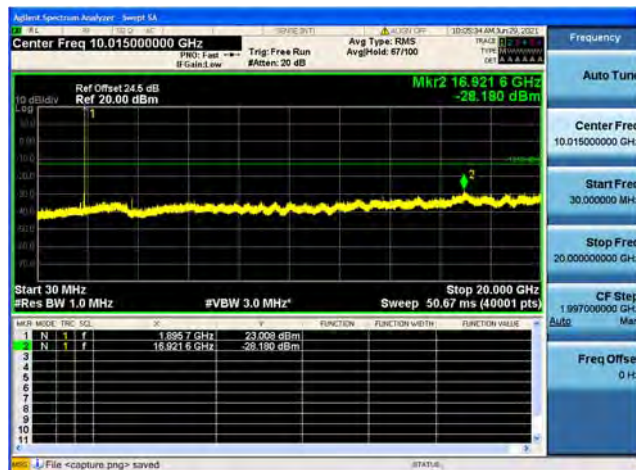
Band2 / 15MHz / Mid CH / QPSK



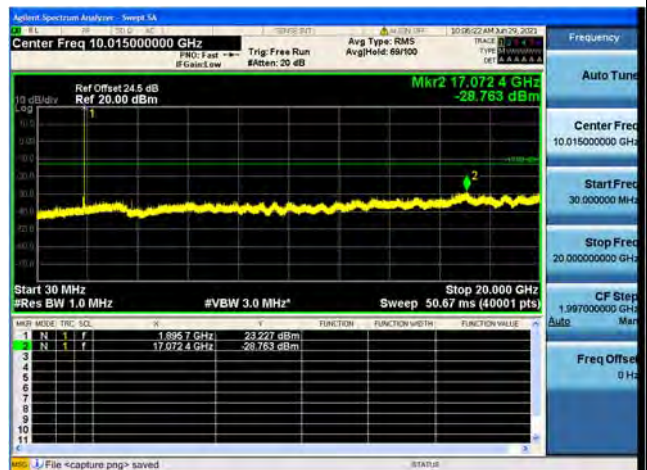
Band2 / 15MHz / Mid CH / 16QAM



Band2 / 15MHz / High CH / QPSK

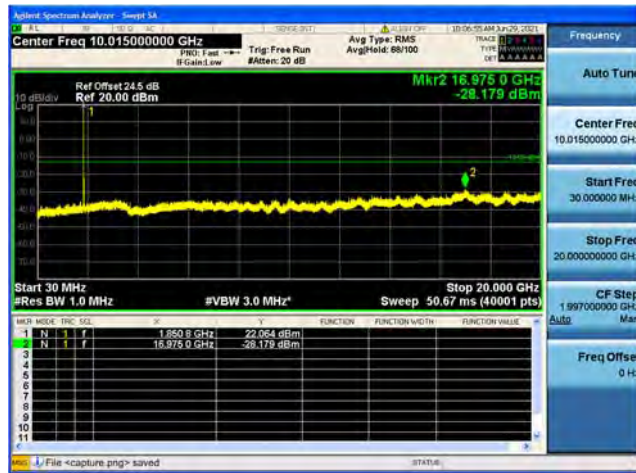


Band2 / 15MHz / High CH / 16QAM

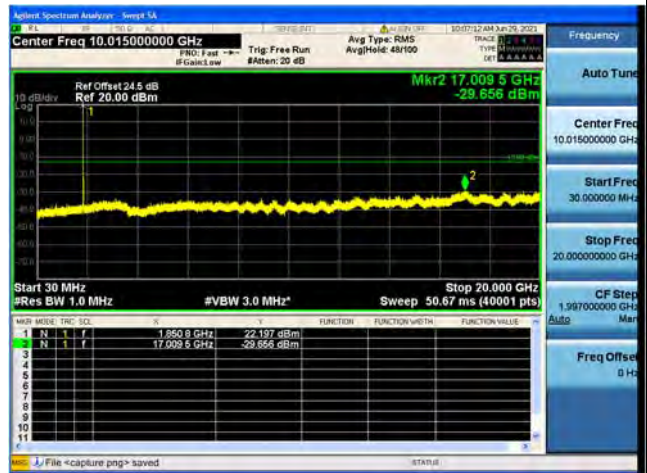




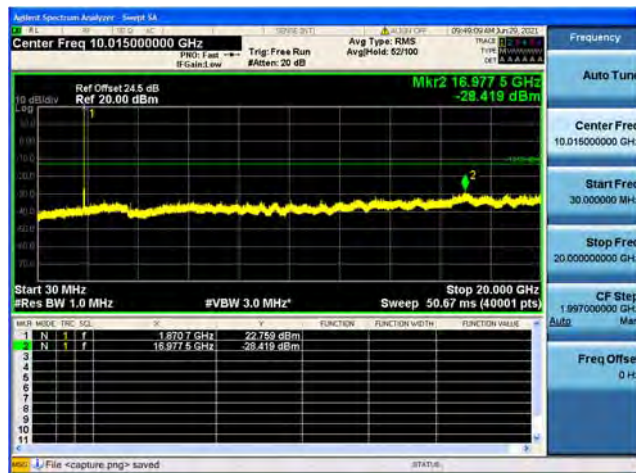
Band2 / 20MHz / Low CH / QPSK



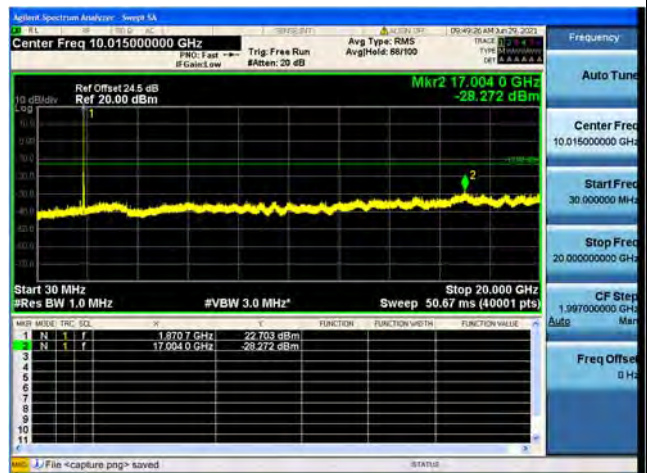
Band2 / 20MHz / Low CH / 16QAM



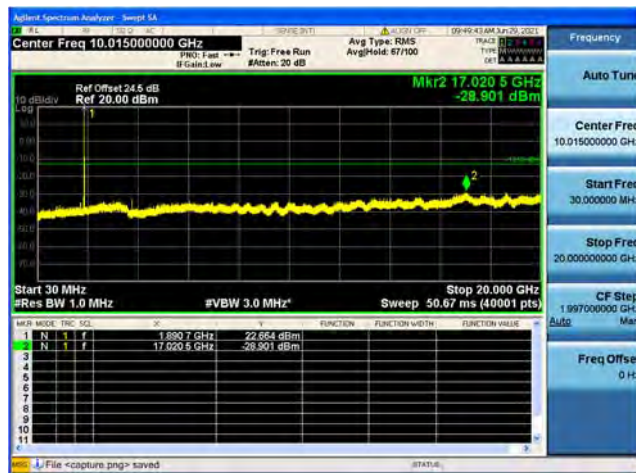
Band2 / 20MHz / Mid CH / QPSK



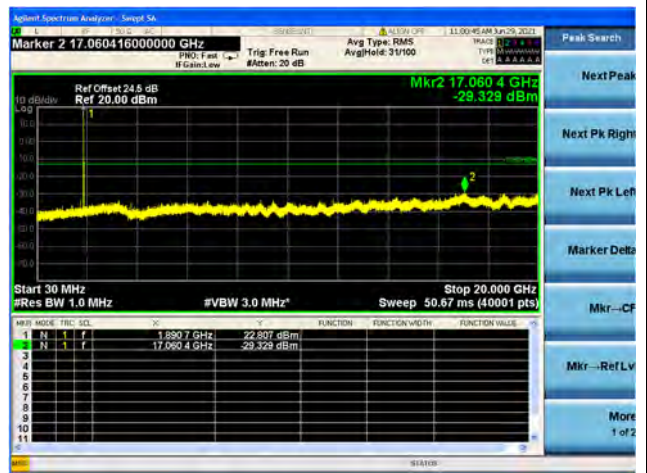
Band2 / 20MHz / Mid CH / 16QAM



Band2 / 20MHz / High CH / QPSK

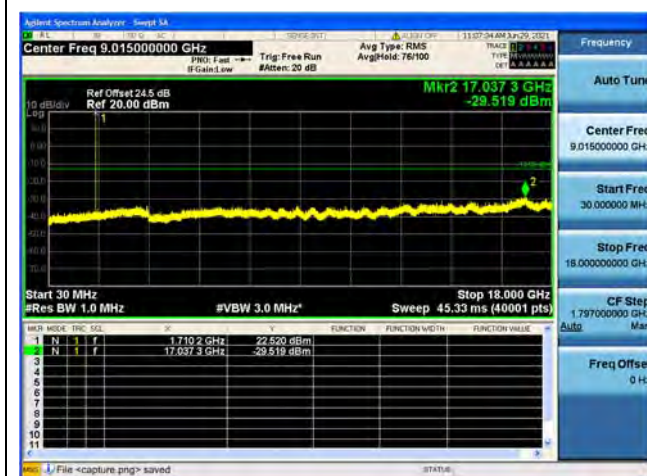


Band2 / 20MHz / High CH / 16QAM

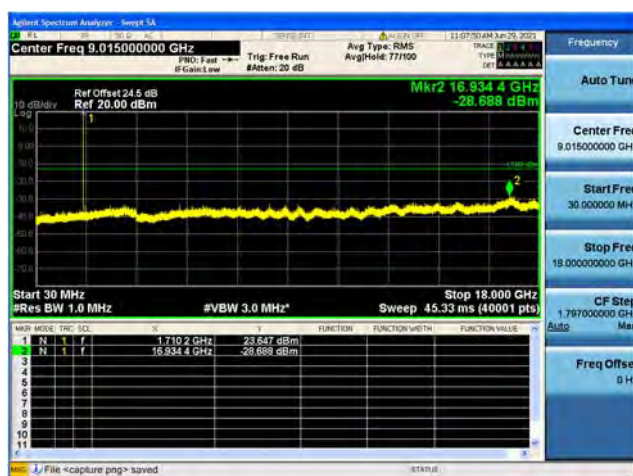




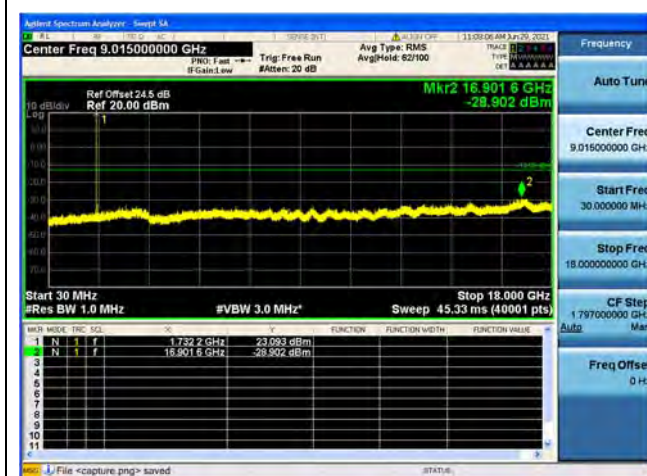
Band4 / 1.4MHz / Low CH / QPSK



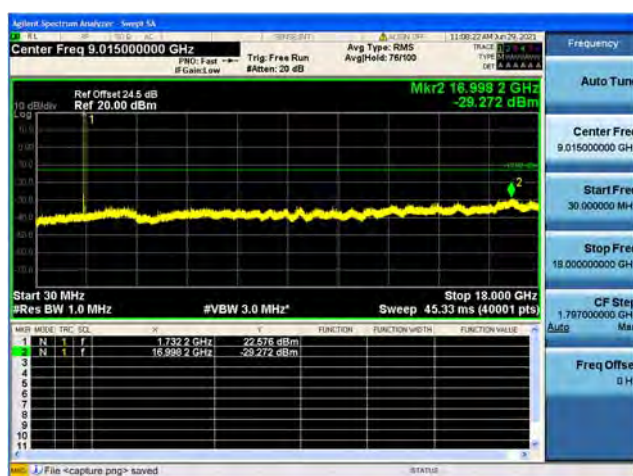
Band4 / 1.4MHz / Low CH / 16QAM



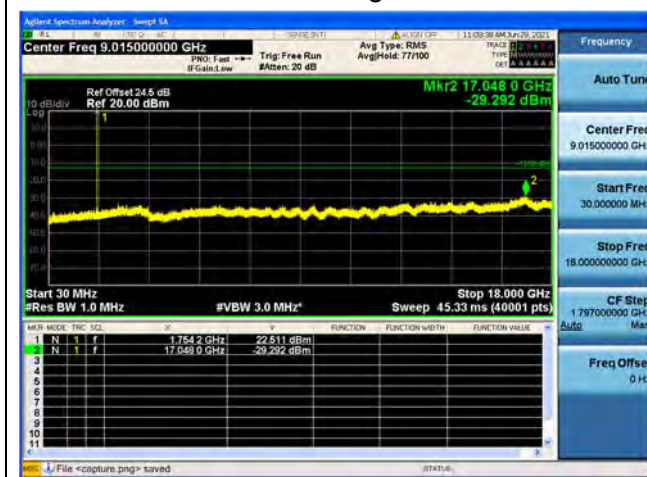
Band4 / 1.4MHz / Mid CH / QPSK



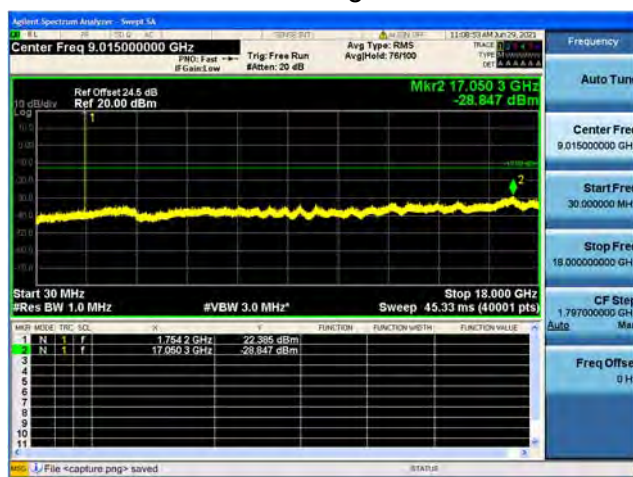
Band4 / 1.4MHz / Mid CH / 16QAM



Band4 / 1.4MHz / High CH / QPSK

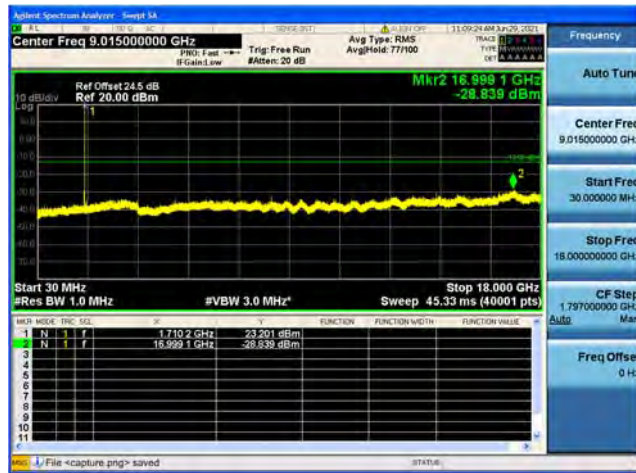


Band4 / 1.4MHz / High CH / 16QAM

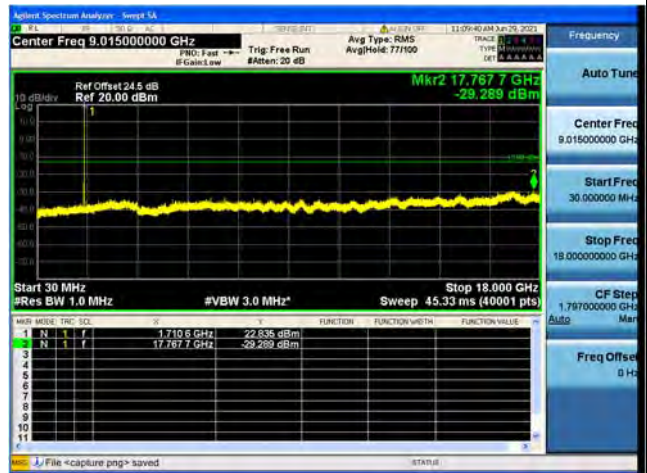




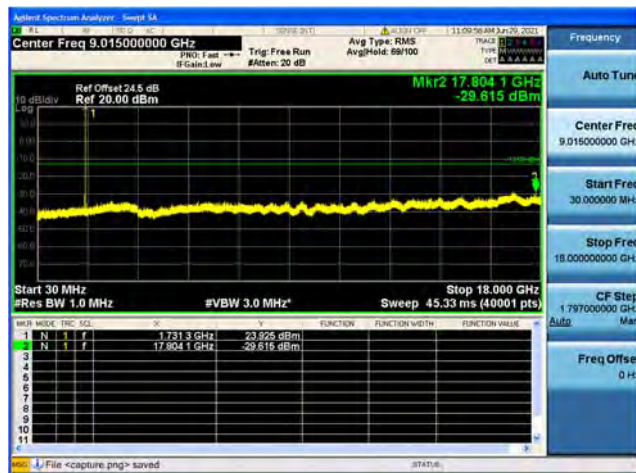
Band4 / 3MHz / Low CH / QPSK



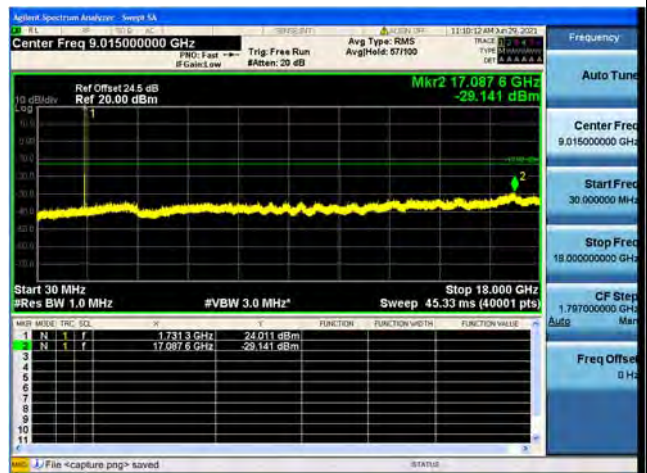
Band4 / 3MHz / Low CH / 16QAM



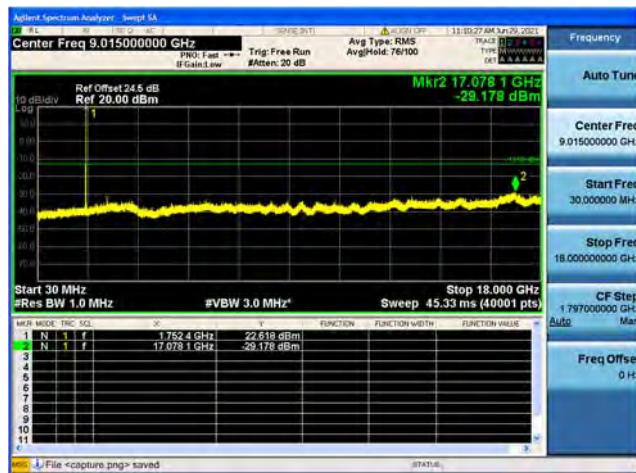
Band4 / 3MHz / Mid CH / QPSK



Band4 / 3MHz / Mid CH / 16QAM



Band4 / 3MHz / High CH / QPSK

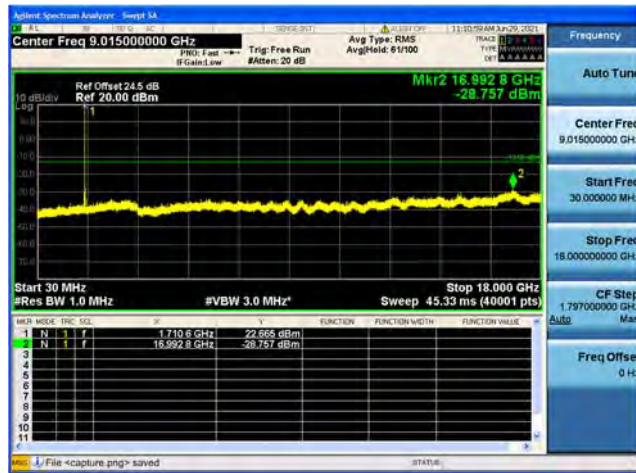


Band4 / 3MHz / High CH / 16QAM

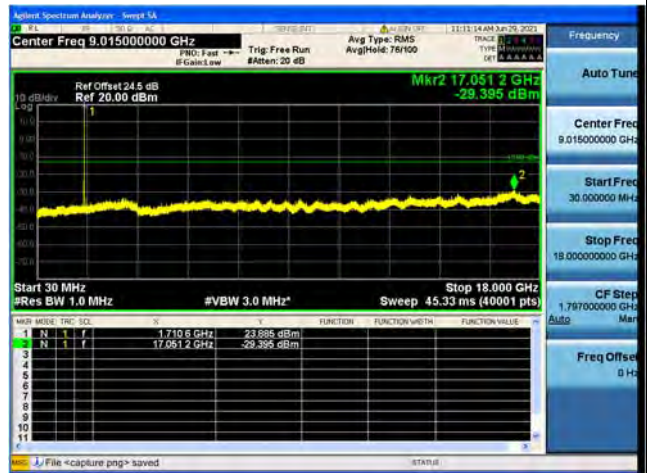




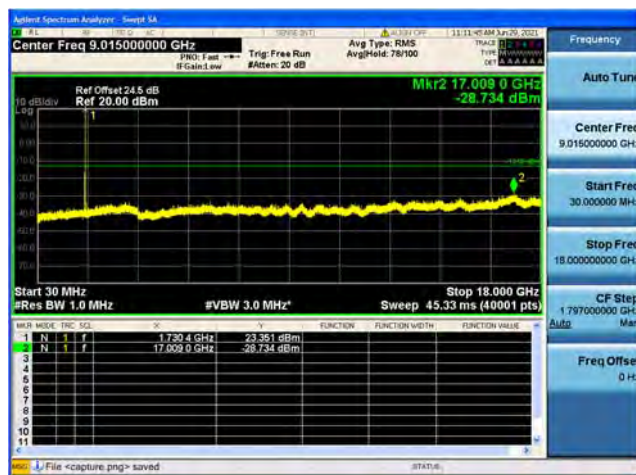
Band4 / 5MHz / Low CH / QPSK



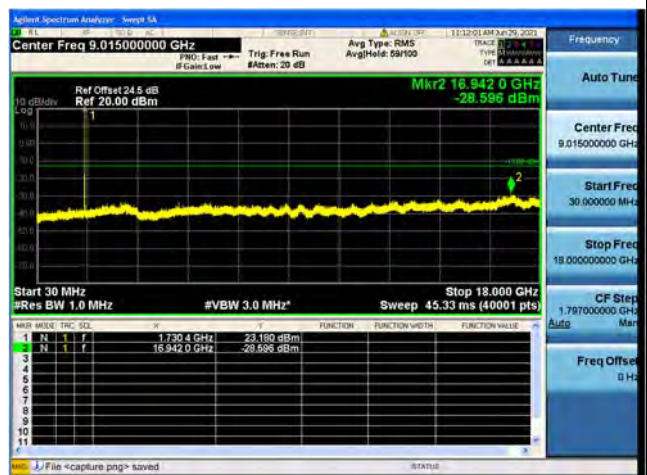
Band4 / 5MHz / Low CH / 16QAM



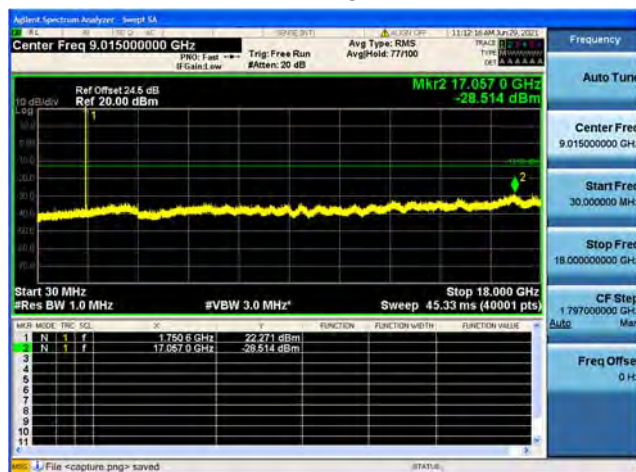
Band4 / 5MHz / Mid CH / QPSK



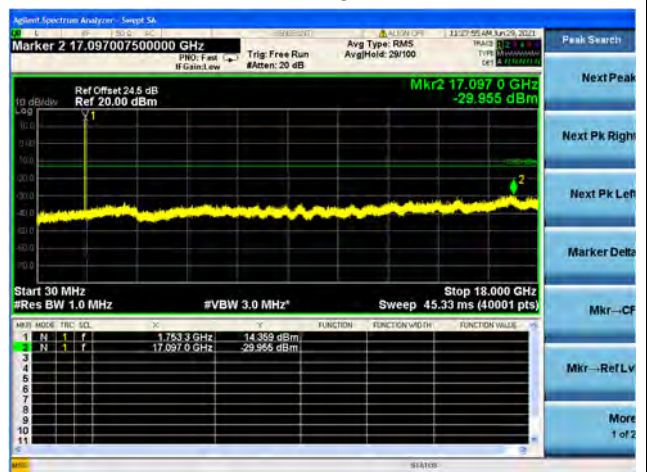
Band4 / 5MHz / Mid CH / 16QAM



Band4 / 5MHz / High CH / QPSK

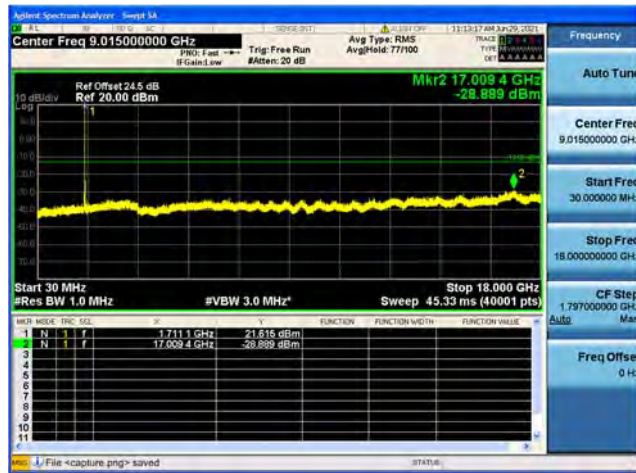


Band4 / 5MHz / High CH / 16QAM

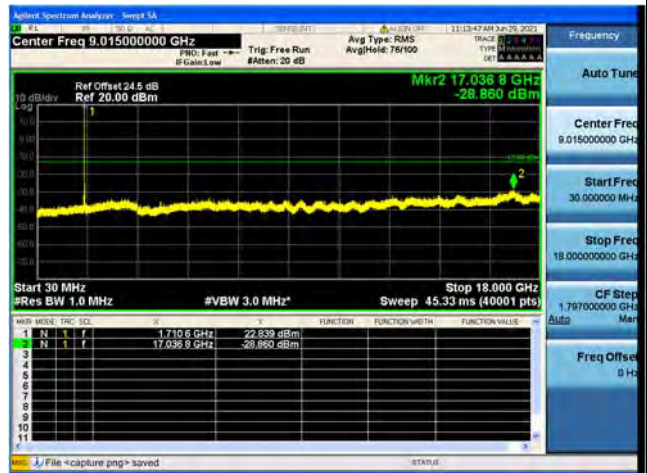




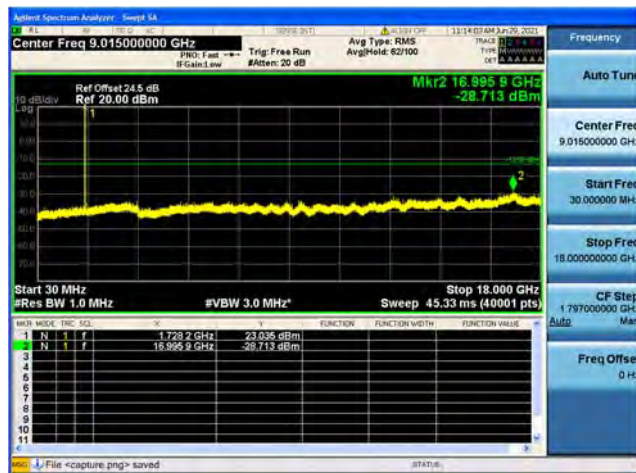
Band4 / 10MHz / Low CH / QPSK



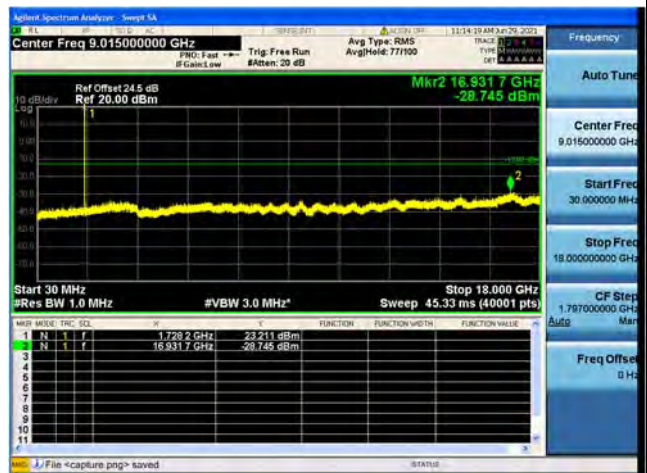
Band4 / 10MHz / Low CH / 16QAM



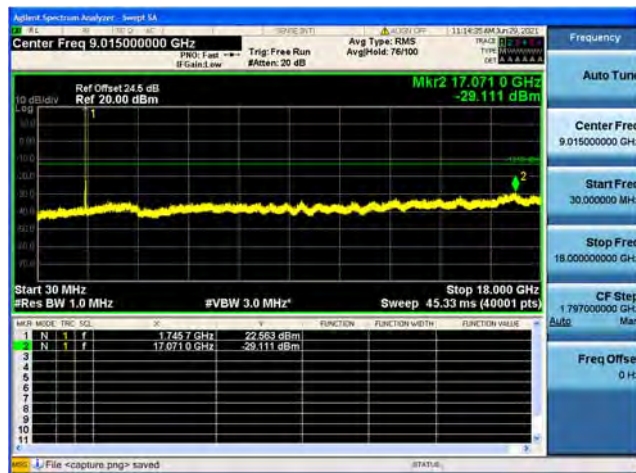
Band4 / 10MHz / Mid CH / QPSK



Band4 / 10MHz / Mid CH / 16QAM



Band4 / 10MHz / High CH / QPSK

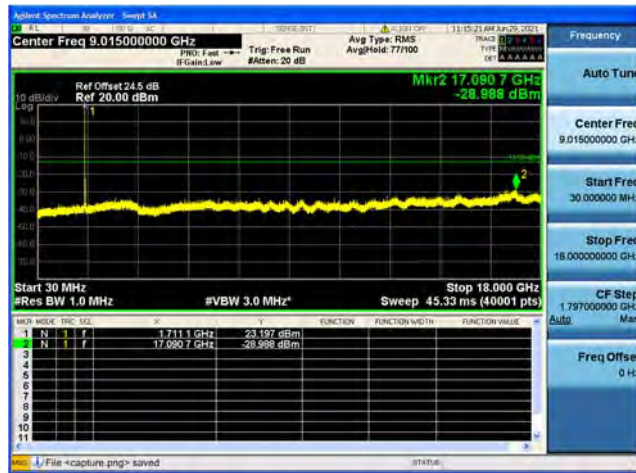


Band4 / 10MHz / High CH / 16QAM

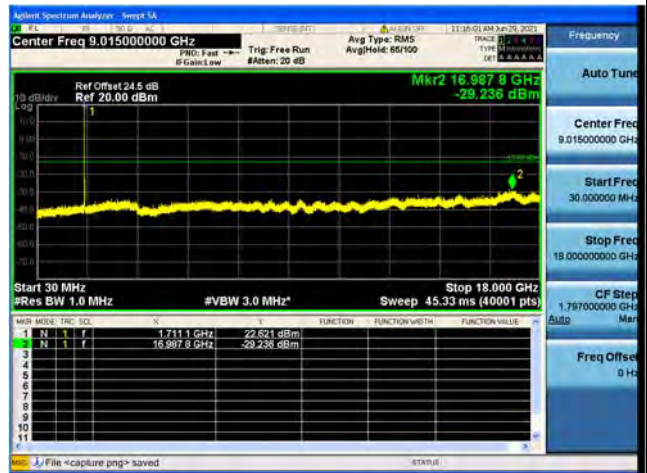




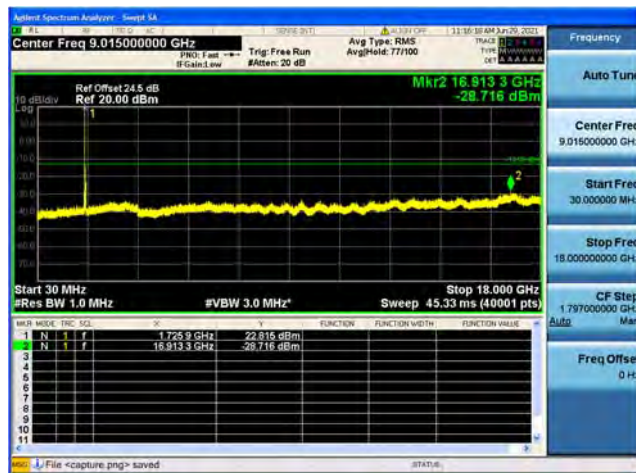
Band4 / 15MHz / Low CH / QPSK



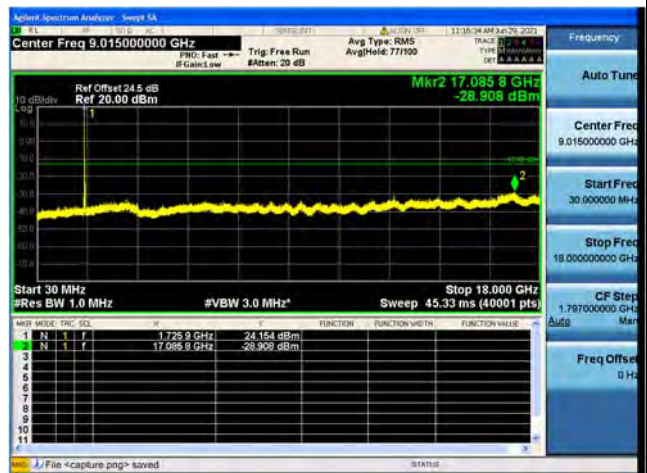
Band4 / 15MHz / Low CH / 16QAM



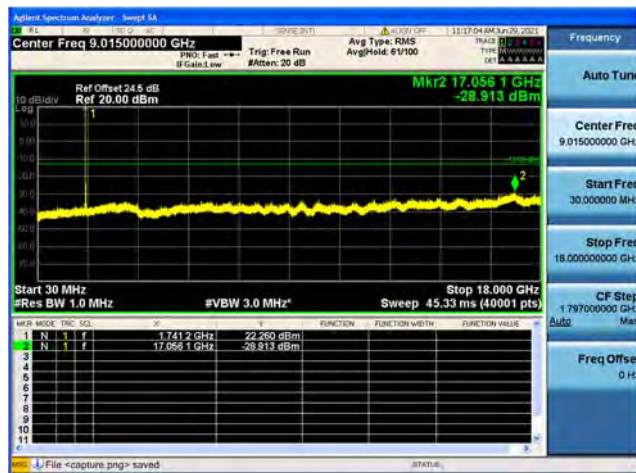
Band4 / 15MHz / Mid CH / QPSK



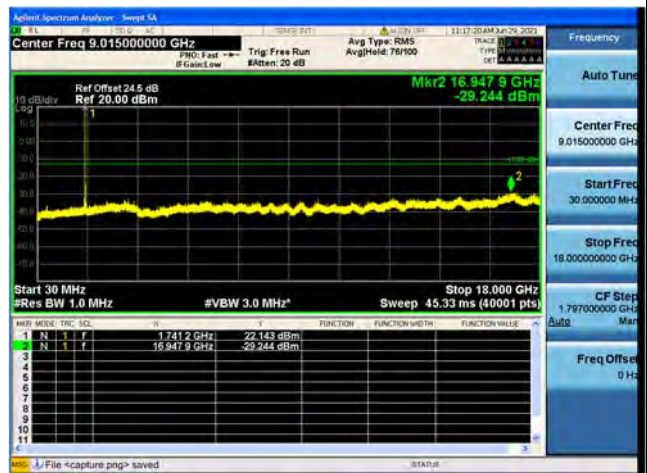
Band4 / 15MHz / Mid CH / 16QAM



Band4 / 15MHz / High CH / QPSK

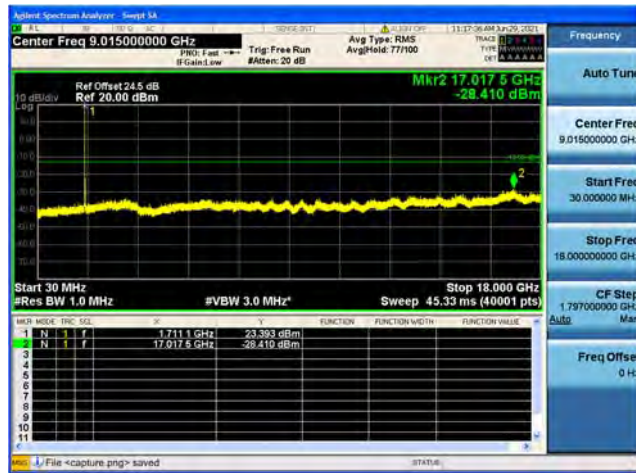


Band4 / 15MHz / High CH / 16QAM

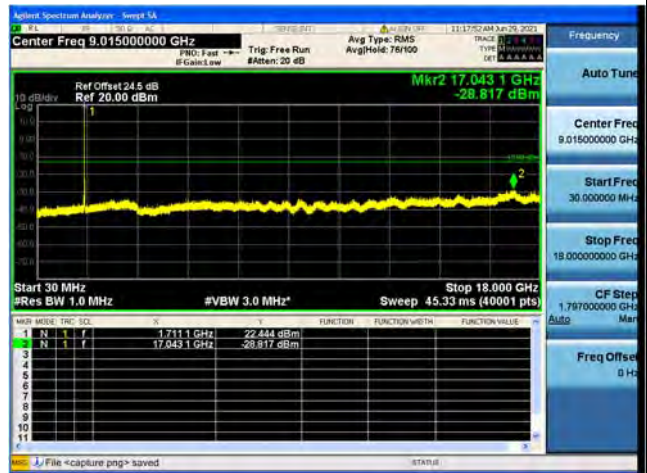




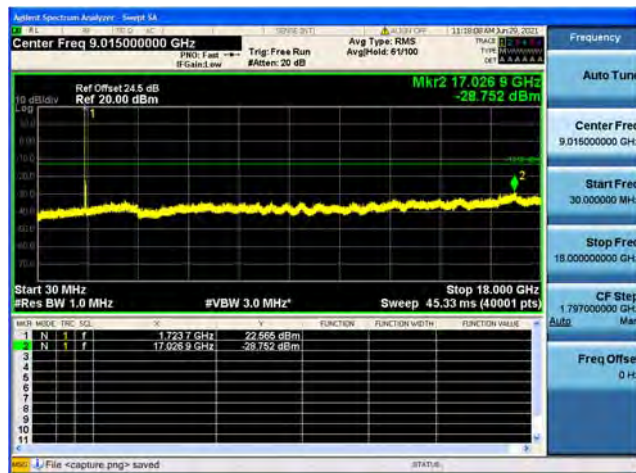
Band4 / 20MHz / Low CH / QPSK



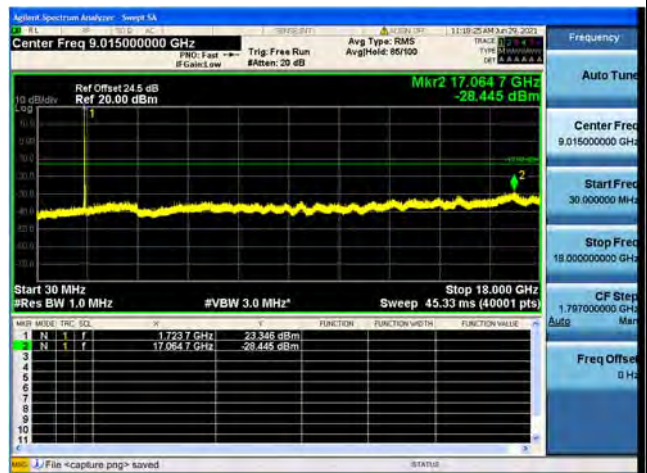
Band4 / 20MHz / Low CH / 16QAM



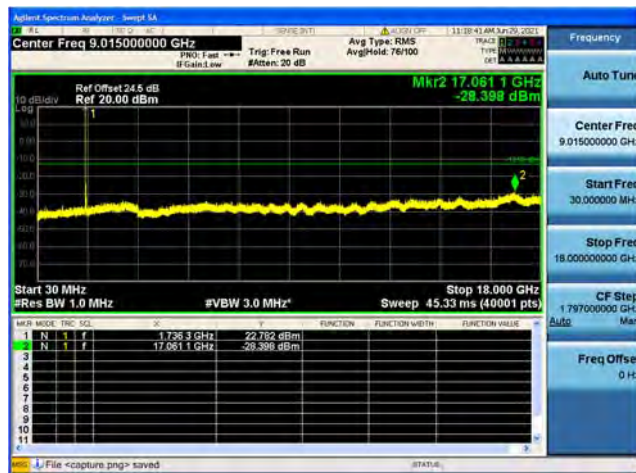
Band4 / 20MHz / Mid CH / QPSK



Band4 / 20MHz / Mid CH / 16QAM



Band4 / 20MHz / High CH / QPSK



Band4 / 20MHz / High CH / 16QAM

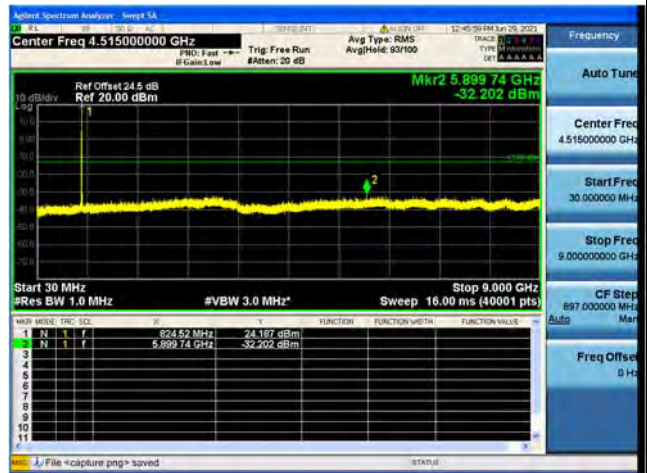




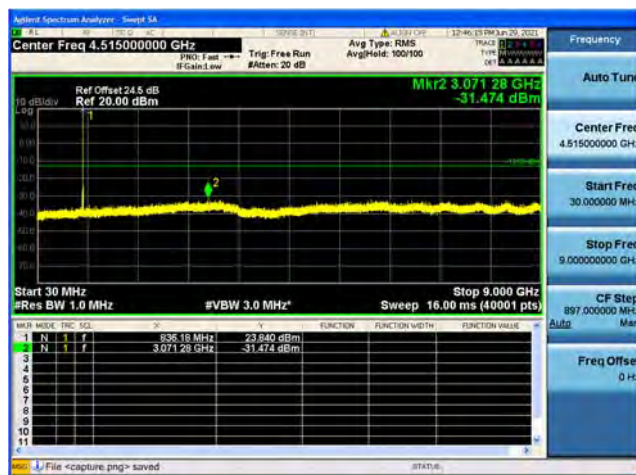
Band5 / 1.4MHz / Low CH / QPSK



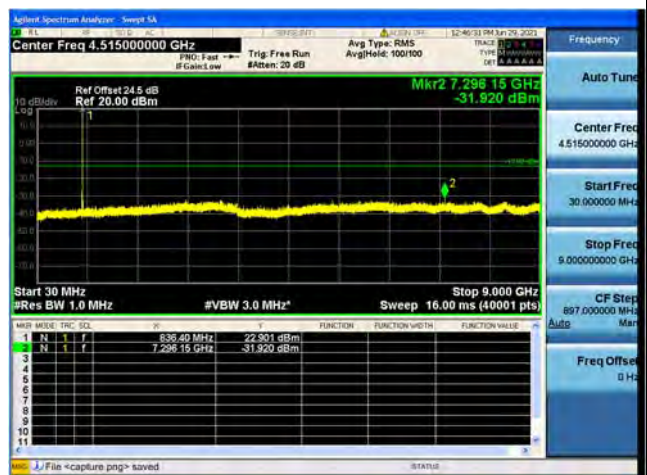
Band5 / 1.4MHz / Low CH / 16QAM



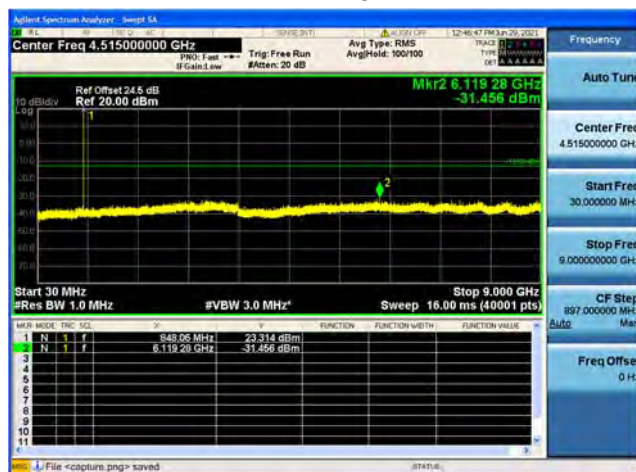
Band5 / 1.4MHz / Mid CH / QPSK



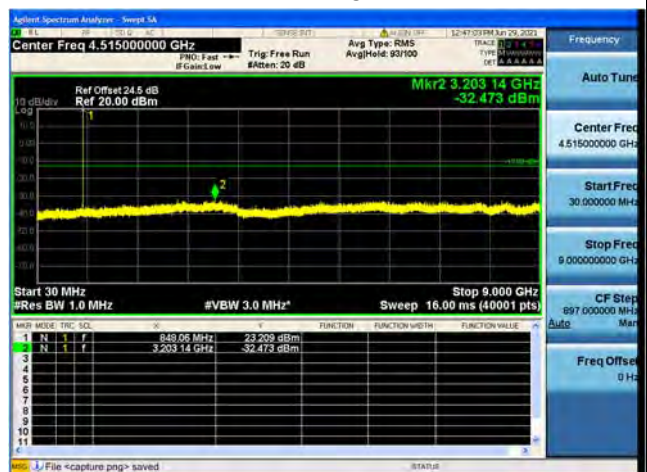
Band5 / 1.4MHz / Mid CH / 16QAM



Band5 / 1.4MHz / High CH / QPSK



Band5 / 1.4MHz / High CH / 16QAM

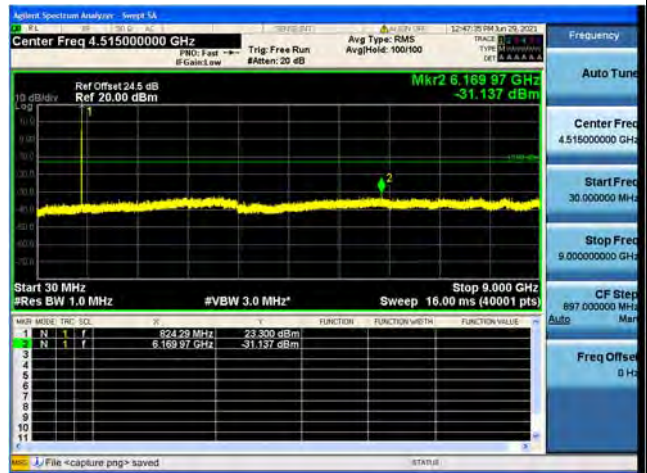




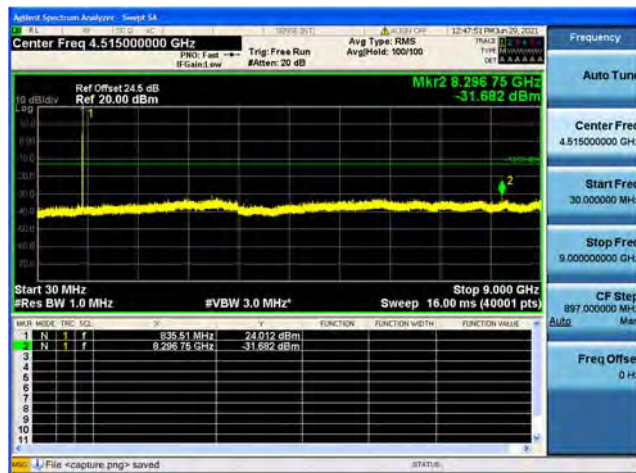
Band5 / 3MHz / Low CH / QPSK



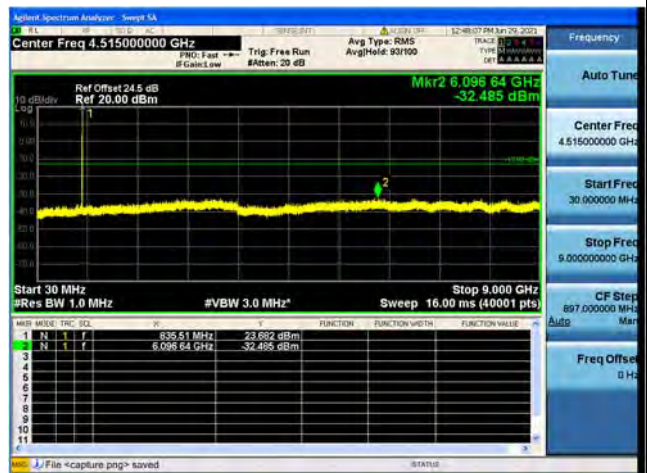
Band5 / 3MHz / Low CH / 16QAM



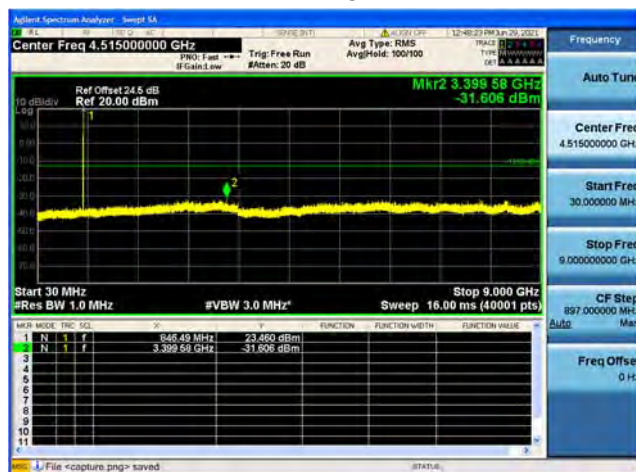
Band5 / 3MHz / Mid CH / QPSK



Band5 / 3MHz / Mid CH / 16QAM



Band5 / 3MHz / High CH / QPSK



Band5 / 3MHz / High CH / 16QAM

