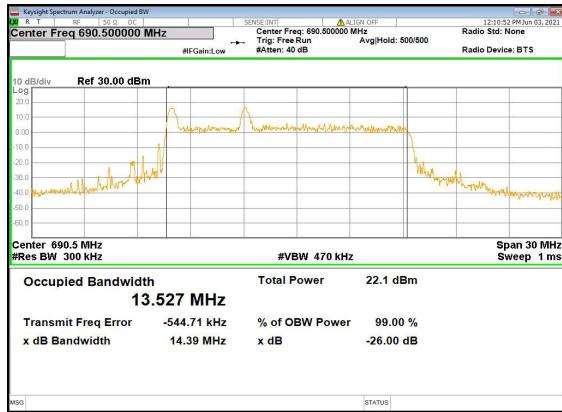
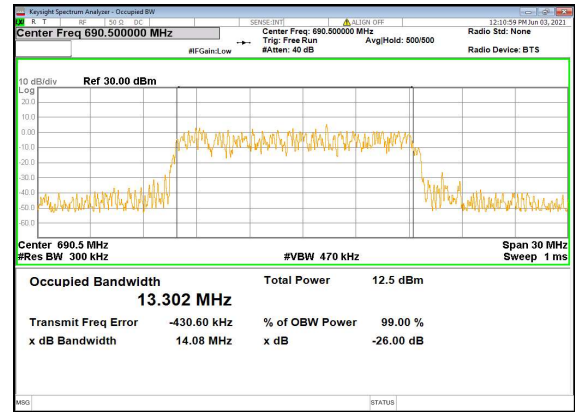
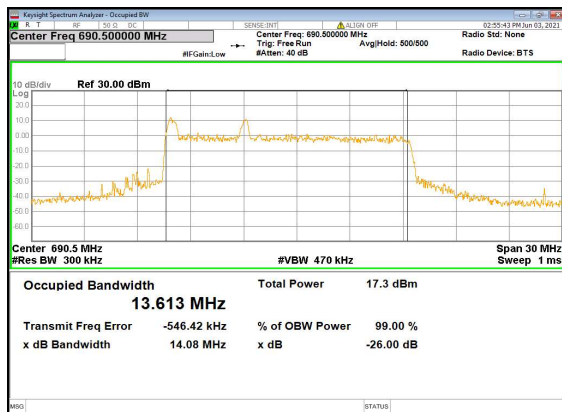
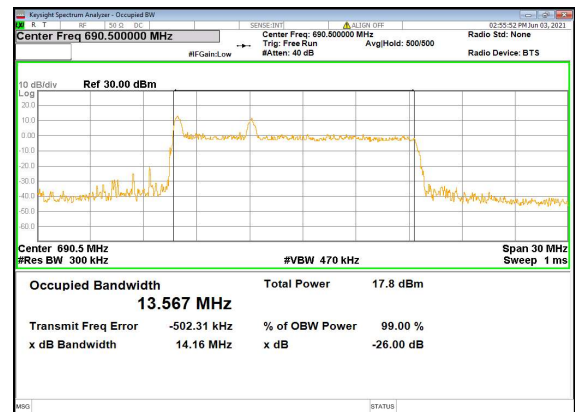
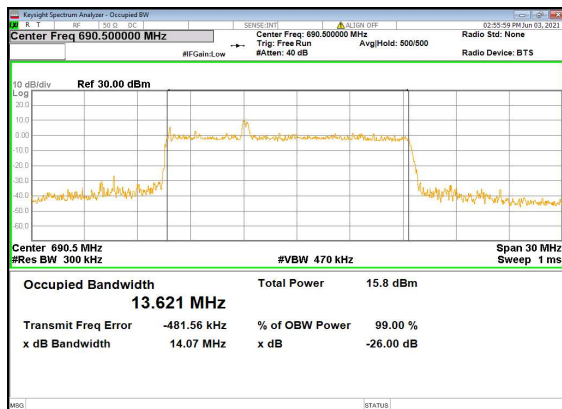
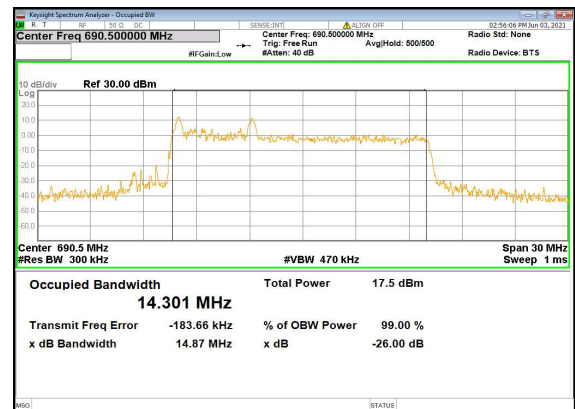
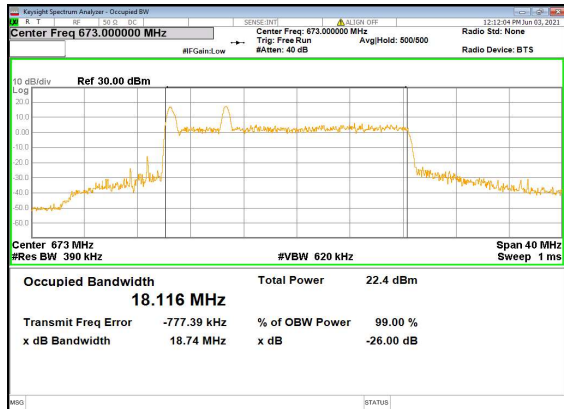
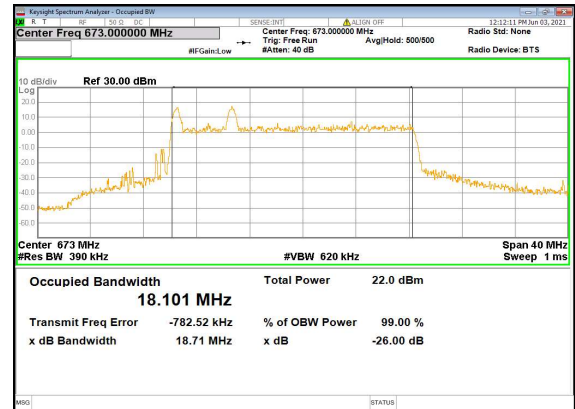
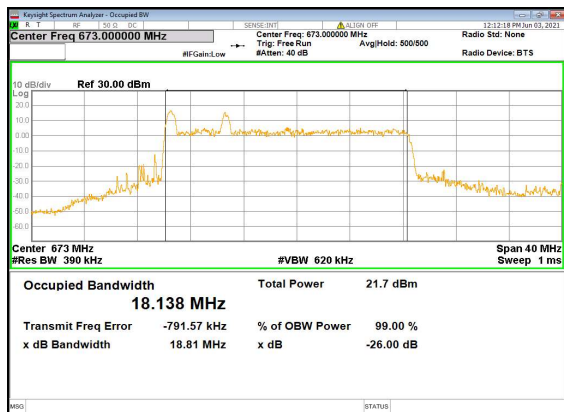
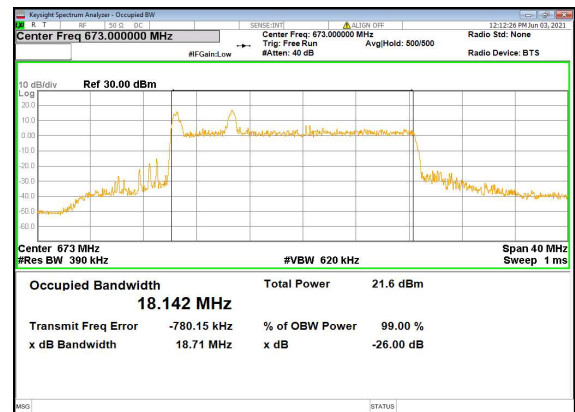
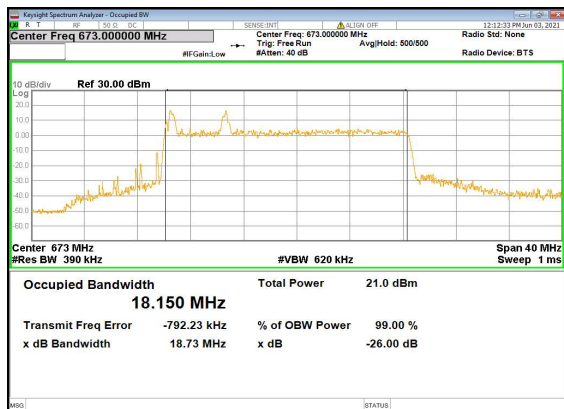
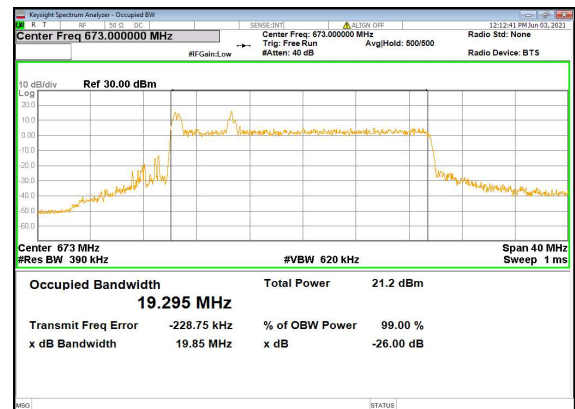
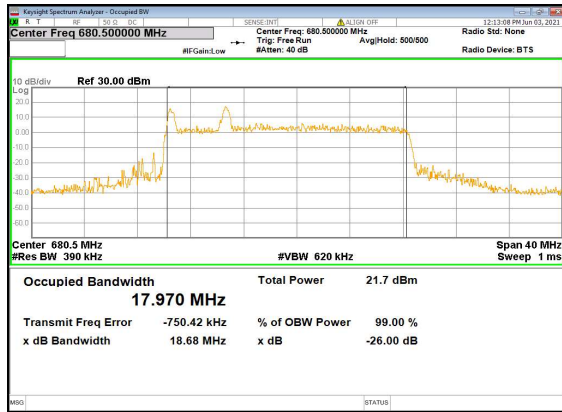
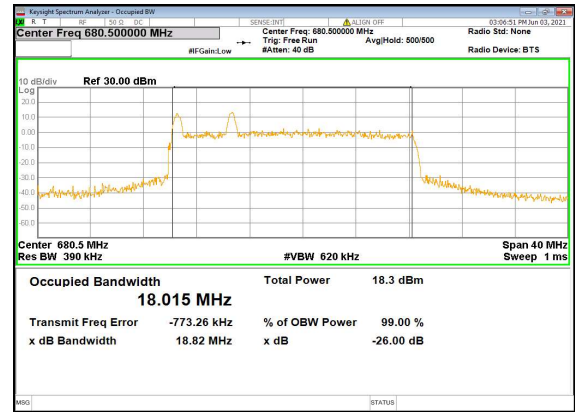
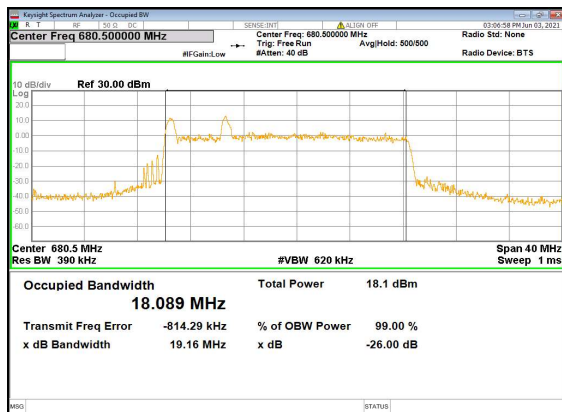
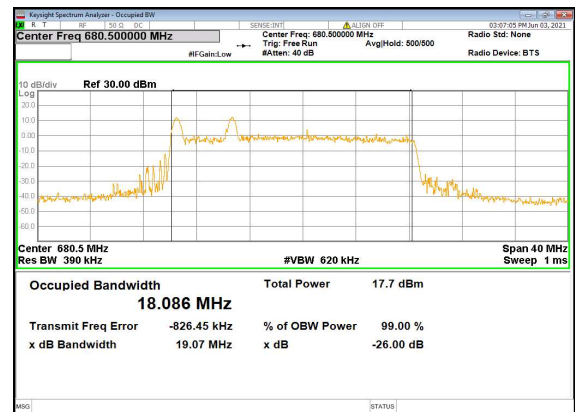
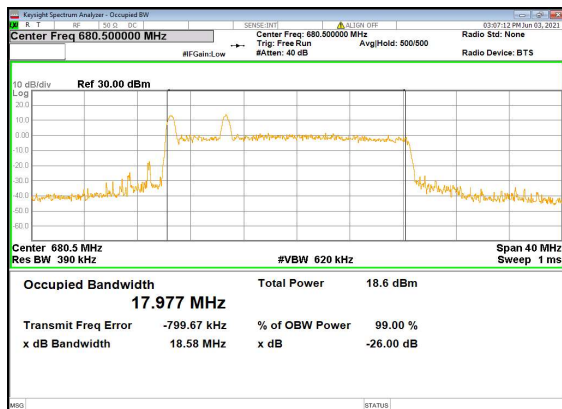
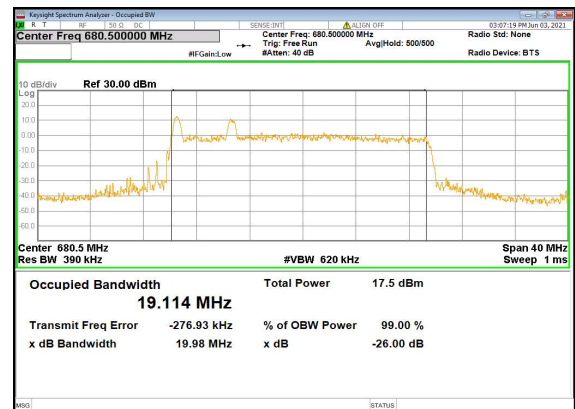
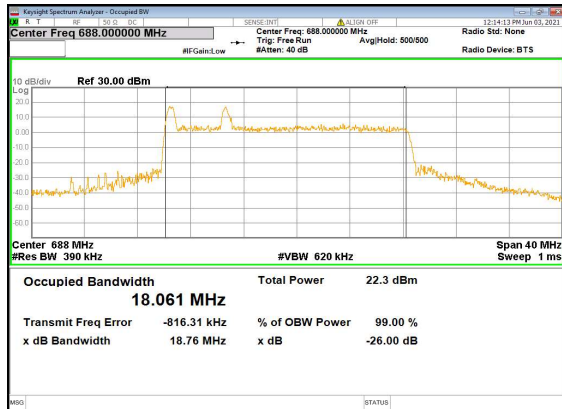
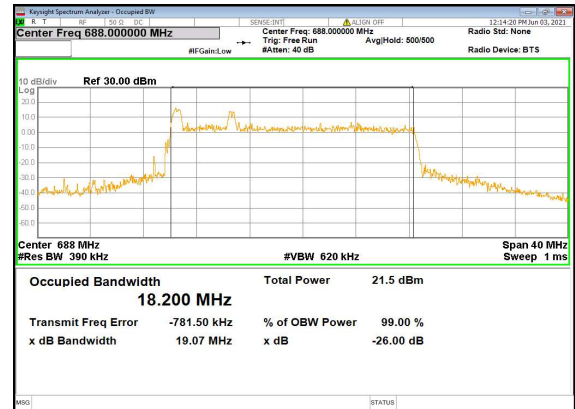
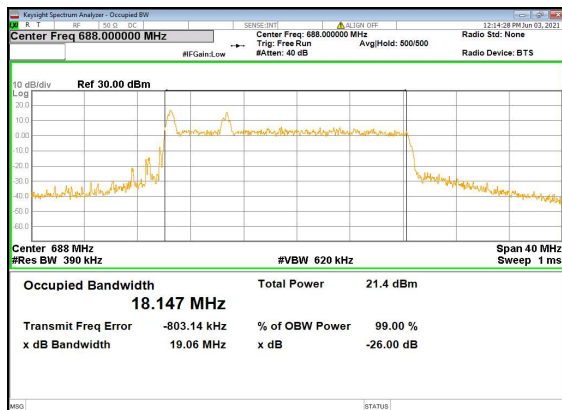
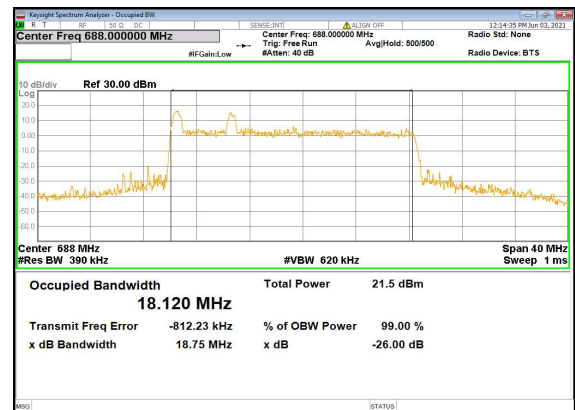
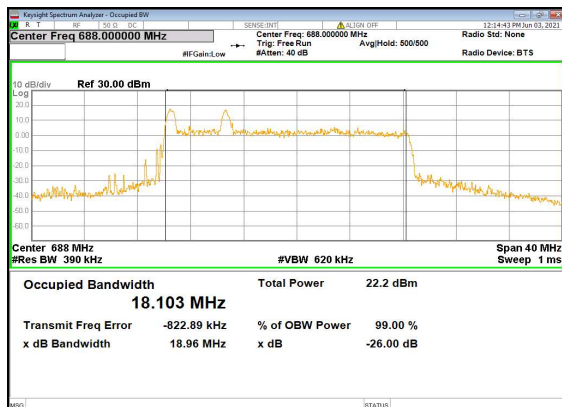
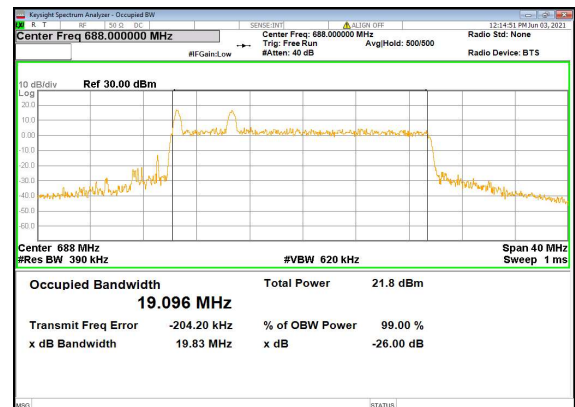


N71(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full
_High_CHN71(15M)_DFT-s-OFDM_QPSK_Outer_Full
High_CHN71(15M)_DFT-s-OFDM_16
QAM_Outer_Full_High_CHN71(15M)_DFT-s-OFDM_64
QAM_Outer_Full_High_CHN71(15M)_DFT-s-OFDM_256
QAM_Outer_Full_High_CHN71(15M)_CP-OFDM_QPSK_Outer_Full_Hig
h_CH

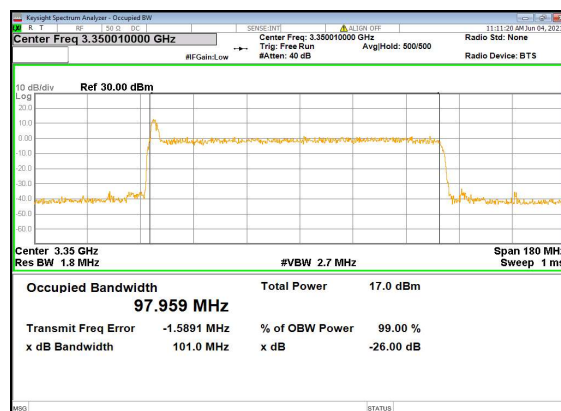
N71(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full
_Low_CHN71(20M)_DFT-s-OFDM_QPSK_Outer_Full
Low_CHN71(20M)_DFT-s-OFDM_16
QAM_Outer_Full_Low_CHN71(20M)_DFT-s-OFDM_64
QAM_Outer_Full_Low_CHN71(20M)_DFT-s-OFDM_256
QAM_Outer_Full_Low_CHN71(20M)_CP-OFDM_QPSK_Outer_Full_Lo
w_CH

N71(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full
_Mid_CHN71(20M)_DFT-s-OFDM_QPSK_Outer_Full
Mid_CHN71(20M)_DFT-s-OFDM_16
QAM_Outer_Full_Mid_CHN71(20M)_DFT-s-OFDM_64
QAM_Outer_Full_Mid_CHN71(20M)_DFT-s-OFDM_256
QAM_Outer_Full_Mid_CHN71(20M)_CP-OFDM_QPSK_Outer_Full_Mi
d_CH

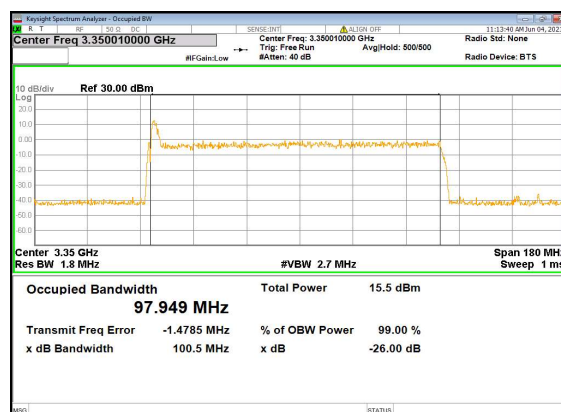
N71(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full
_High_CHN71(20M)_DFT-s-OFDM_QPSK_Outer_Full
High_CHN71(20M)_DFT-s-OFDM_16
QAM_Outer_Full_High_CHN71(20M)_DFT-s-OFDM_64
QAM_Outer_Full_High_CHN71(20M)_DFT-s-OFDM_256
QAM_Outer_Full_High_CHN71(20M)_CP-OFDM_QPSK_Outer_Full_Hig
h_CH



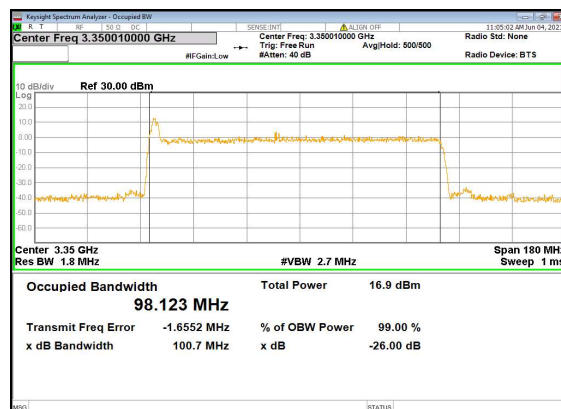
N78(100M)_DFT-s-OFDM_QPSK_Outer_Full
Mid CH



N78(100M)_DFT-s-OFDM_64



N78(100M)_CP-OFDM_QPSK_Outer_Full_M



2.3. Frequency Stability

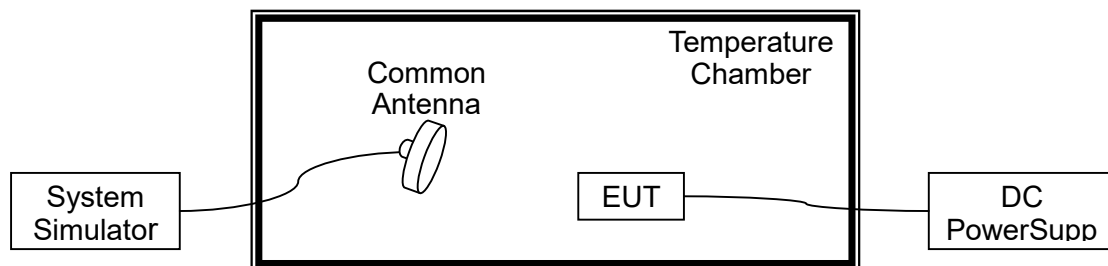
2.3.1. Requirement

According to FCC section 2.1055 & 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 0°C to 45°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 3.8VDC, 4.2VDC and 3.6VDC, which are specified by the applicant; the normal temperature here used is 20°C .



NR n2, QPSK, Channel 376000, SCS 15kHz, Frequency 1880MHz Limit =±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.8	+20 (Ref)	32	0.017	PASS
100		0	-48	-0.026	
100		+10	52	0.028	
100		+20	27	0.014	
100		+30	-36	-0.019	
100		+40	48	0.026	
100		+50	-36	-0.019	
115	4.2	+20	-28	-0.015	
85	3.6	+20	42	0.022	

NR n41, QPSK, Channel 518598, SCS 30kHz, Frequency 2593MHz Limit =±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.8	+20 (Ref)	-29	-0.011	PASS
100		0	-39	-0.015	
100		+10	28	0.011	
100		+20	-20	-0.008	
100		+30	49	0.019	
100		+40	41	0.016	
100		+50	-36	-0.014	
115	4.2	+20	55	0.021	
85	3.6	+20	-22	-0.008	



NR n66, QPSK, Channel 349000, SCS 15kHz, Frequency 1745MHz Limit =±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.8	+20 (Ref)	-50	-0.029	PASS
100		0	-39	-0.022	
100		+10	30	0.017	
100		+20	25	0.014	
100		+30	44	0.025	
100		+40	-47	-0.027	
100		+50	24	0.014	
115	4.2	+20	-48	-0.028	PASS
85	3.6	+20	20	0.011	

NR n71, QPSK, Channel 136100, SCS 15kHz, Frequency 680.5MHz Limit =±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.8	+20 (Ref)	-13	-0.019	PASS
100		0	17	0.025	
100		+10	-25	-0.037	
100		+20	19	0.028	
100		+30	-19	-0.028	
100		+40	19	0.028	
100		+50	14	0.021	
115	4.2	+20	15	0.022	PASS
85	3.6	+20	-22	-0.032	



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NR n78, QPSK, Channel 650000, SCS 30kHz, Frequency 3750MHz Limit =±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.8	+20 (Ref)	17	0.005	PASS
100		0	16	0.004	
100		+10	-14	-0.004	
100		+20	19	0.005	
100		+30	45	0.012	
100		+40	41	0.011	
100		+50	24	0.006	
115	4.2	+20	-23	-0.006	
85	3.6	+20	44	0.012	

2.4. Conducted Spurious Emissions

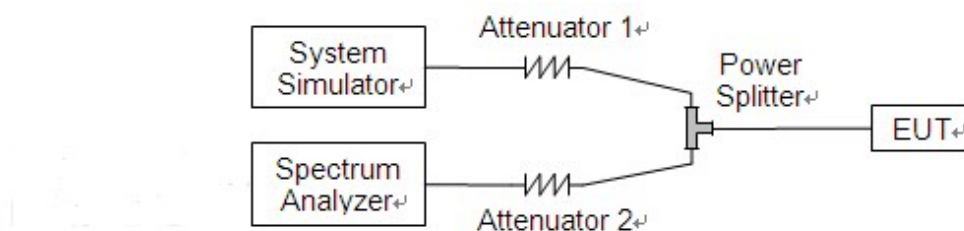
2.4.1. Requirement

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 N41:

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.

2.4.2. 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 50 Ohm; 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.

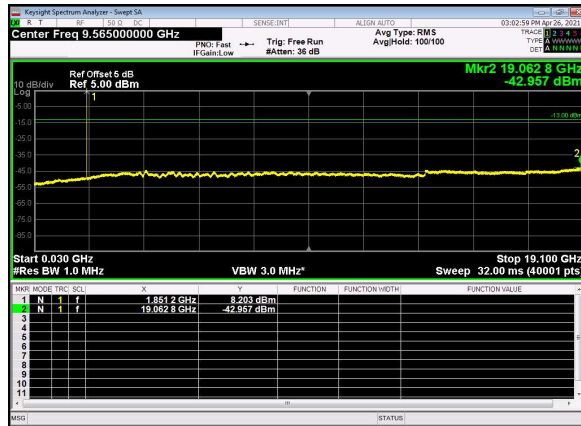
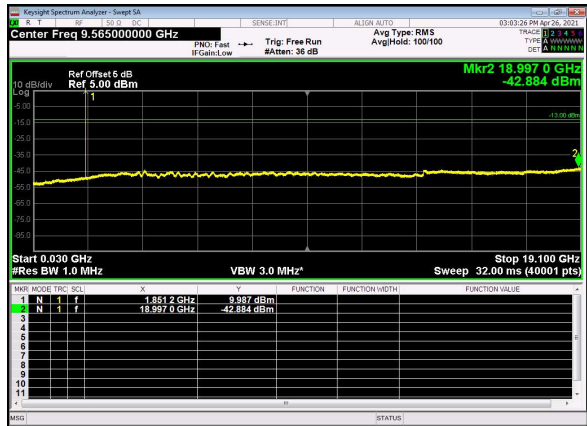
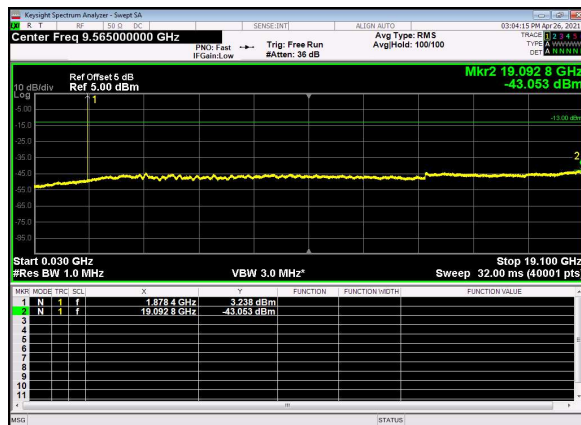
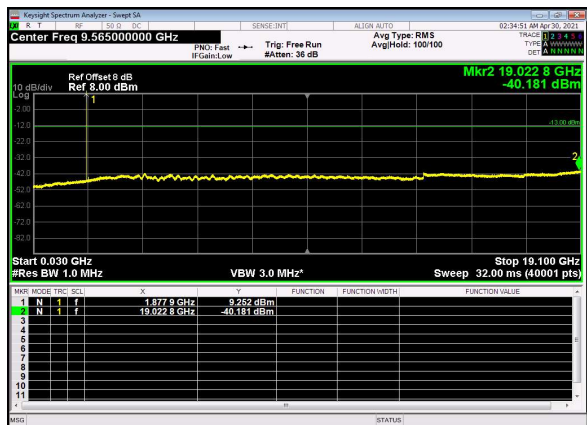
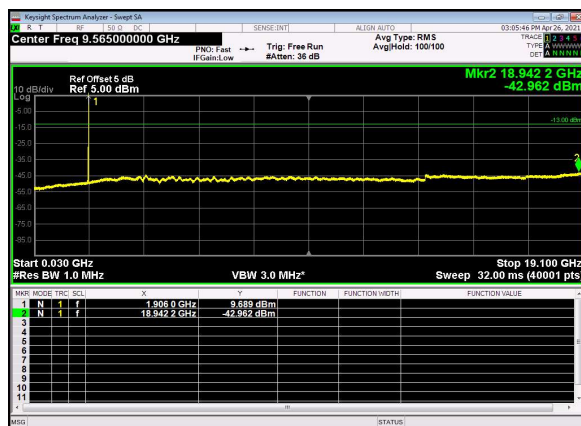


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2.4.3. Test procedure

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

2.4.4. Test Result

N2(5M)_DFT-s-OFDM_BPSK_Edge_1RB_
Left_Low_CHN2(5M)_DFT-s-OFDM_QPSK_Edge_1RB_
Left_Low_CHN2(5M)_DFT-s-OFDM_BPSK_Edge_1RB_
Left_Mid_CHN2(5M)_DFT-s-OFDM_QPSK_Edge_1RB_
Left_Mid_CHN2(5M)_DFT-s-OFDM_BPSK_Edge_1RB_
Left_High_CHN2(5M)_DFT-s-OFDM_QPSK_Edge_1RB_
Left_High_CH