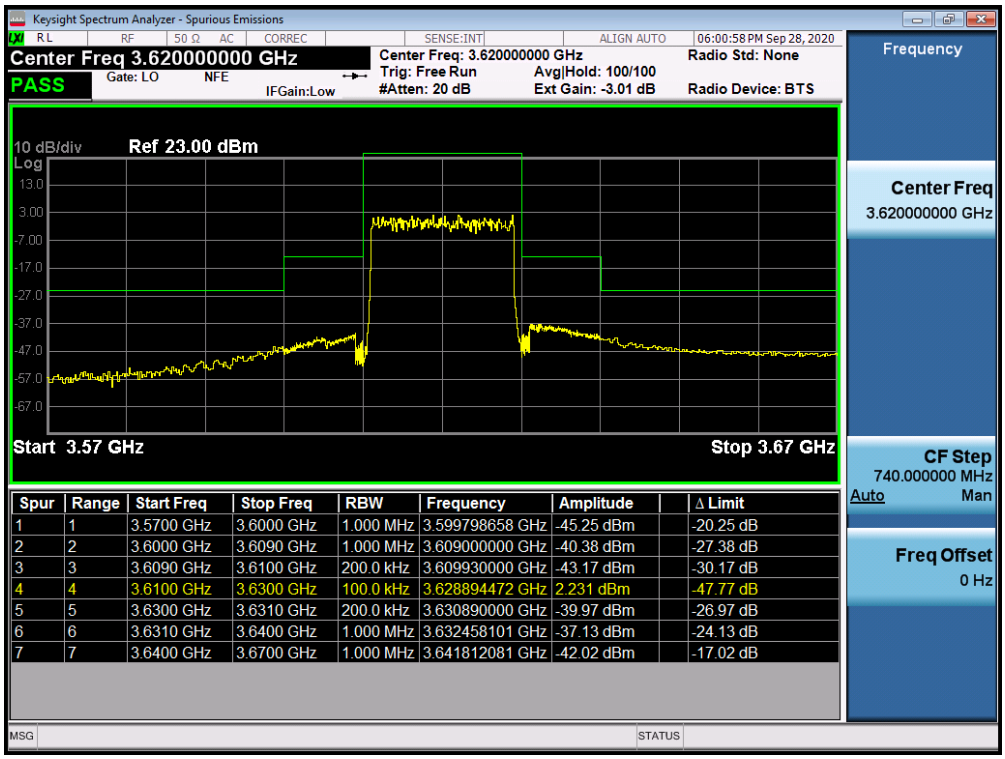
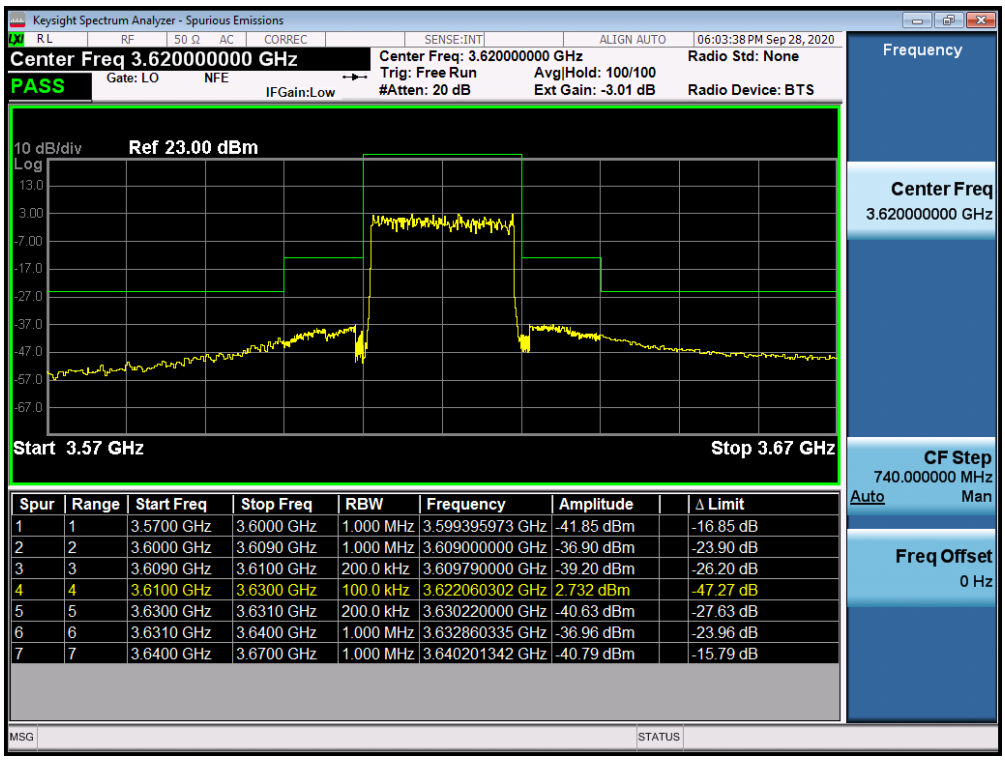
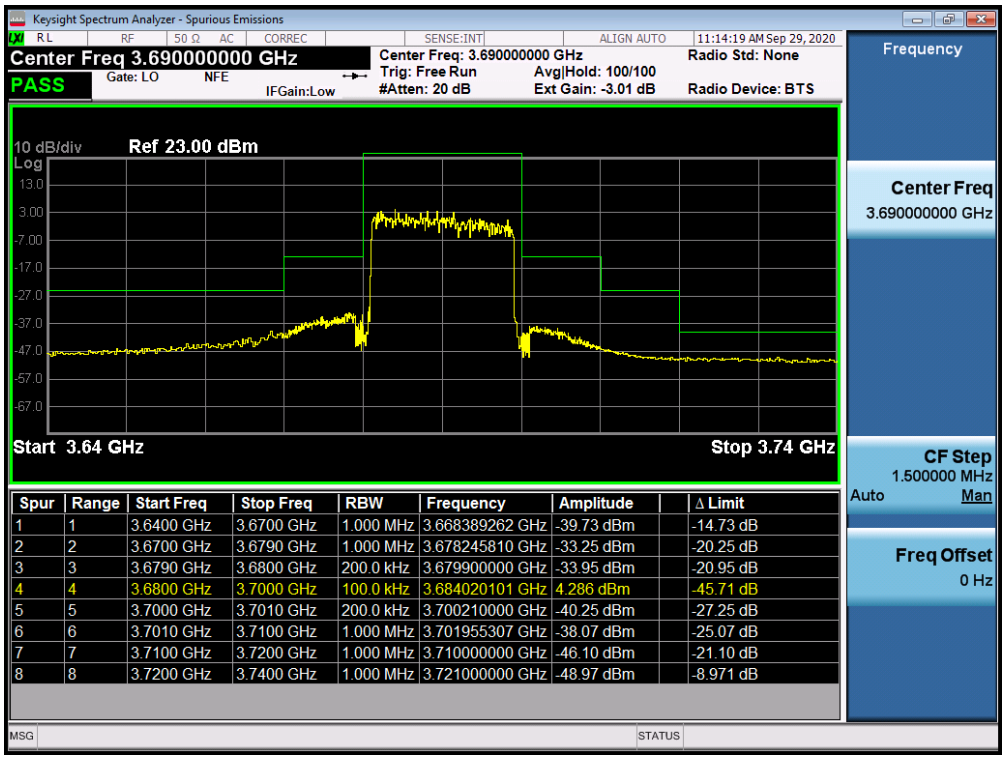


Plot 7-181. Channel Edge Plot (20 MHz Channel Bandwidth, 64QAM, Mid Channel, Port 0)

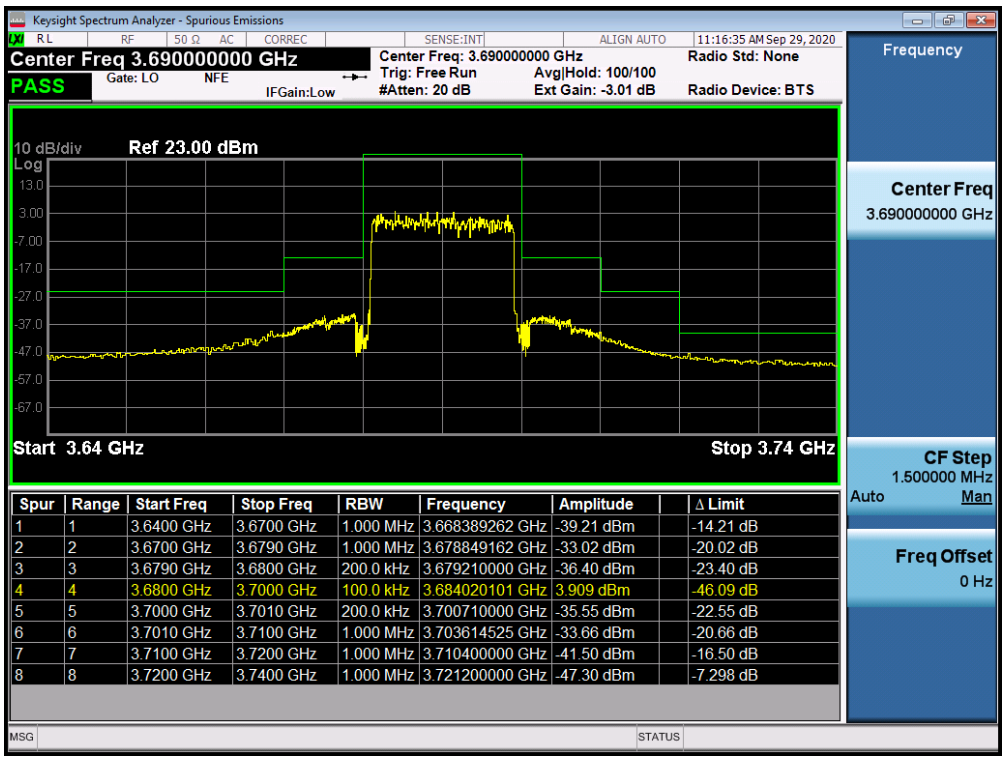


Plot 7-182. Channel Edge Plot (20 MHz Channel Bandwidth, 64QAM, Mid Channel, Port 1)



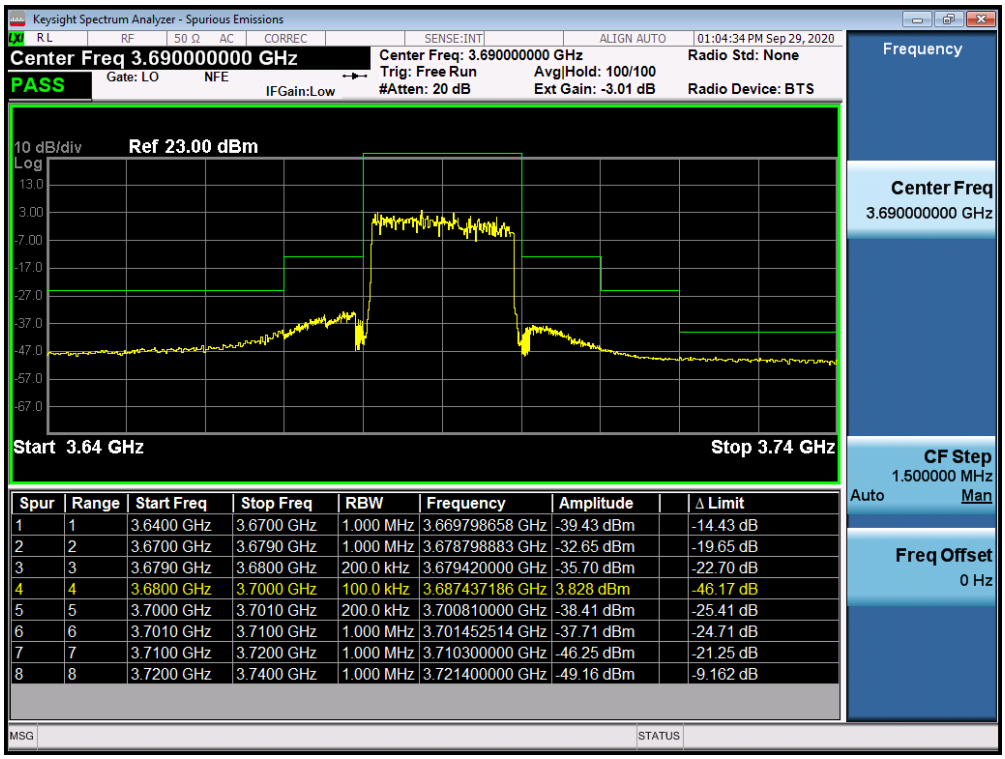
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6400 GHz	3.6700 GHz	1.000 MHz	3.668389262 GHz	-39.73 dBm	-14.73 dB
2	2	3.6700 GHz	3.6790 GHz	1.000 MHz	3.678245810 GHz	-33.25 dBm	-20.25 dB
3	3	3.6790 GHz	3.6800 GHz	200.0 kHz	3.679900000 GHz	-33.95 dBm	-20.95 dB
4	4	3.6800 GHz	3.7000 GHz	100.0 kHz	3.684020101 GHz	4.286 dBm	-45.71 dB
5	5	3.7000 GHz	3.7010 GHz	200.0 kHz	3.700210000 GHz	-40.25 dBm	-27.25 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.701955307 GHz	-38.07 dBm	-25.07 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.710000000 GHz	-46.10 dBm	-21.10 dB
8	8	3.7200 GHz	3.7400 GHz	1.000 MHz	3.721000000 GHz	-48.97 dBm	-8.971 dB

Plot 7-183. Channel Edge Plot (20 MHz Channel Bandwidth, QPSK, High Channel, Port 0)



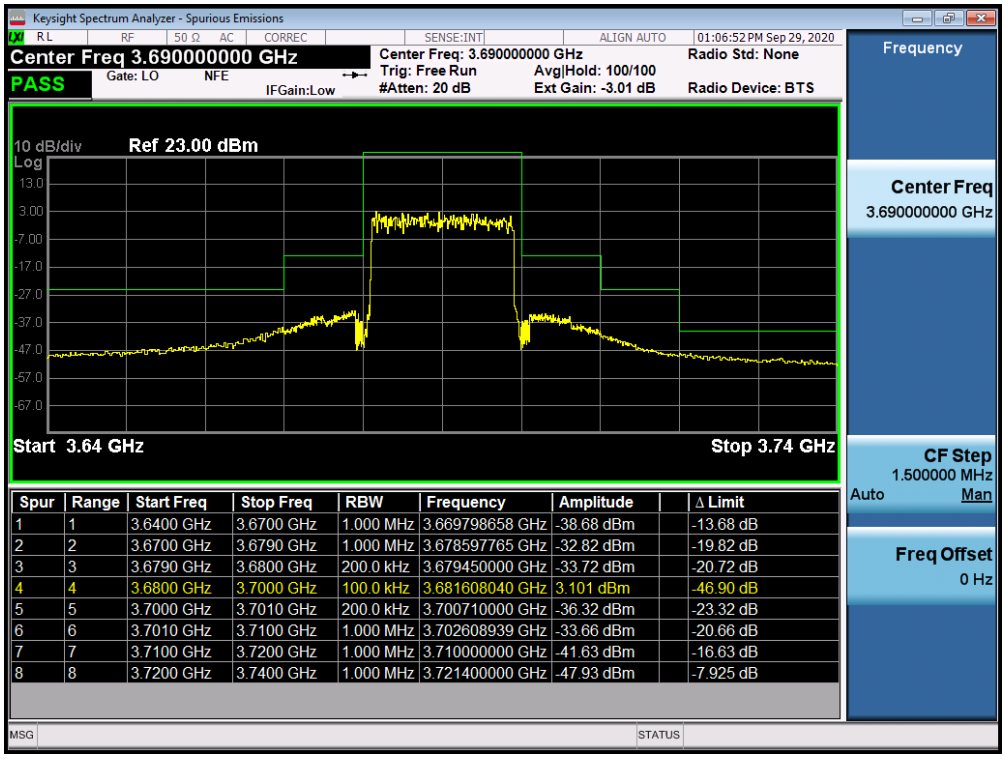
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6400 GHz	3.6700 GHz	1.000 MHz	3.668389262 GHz	-39.21 dBm	-14.21 dB
2	2	3.6700 GHz	3.6790 GHz	1.000 MHz	3.678849162 GHz	-33.02 dBm	-20.02 dB
3	3	3.6790 GHz	3.6800 GHz	200.0 kHz	3.679210000 GHz	-36.40 dBm	-23.40 dB
4	4	3.6800 GHz	3.7000 GHz	100.0 kHz	3.684020101 GHz	3.909 dBm	-46.09 dB
5	5	3.7000 GHz	3.7010 GHz	200.0 kHz	3.700710000 GHz	-35.55 dBm	-22.55 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.703614525 GHz	-33.66 dBm	-20.66 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.710400000 GHz	-41.50 dBm	-16.50 dB
8	8	3.7200 GHz	3.7400 GHz	1.000 MHz	3.721200000 GHz	-47.30 dBm	-7.298 dB

Plot 7-184. Channel Edge Plot (20 MHz Channel Bandwidth, QPSK, High Channel, Port 1)



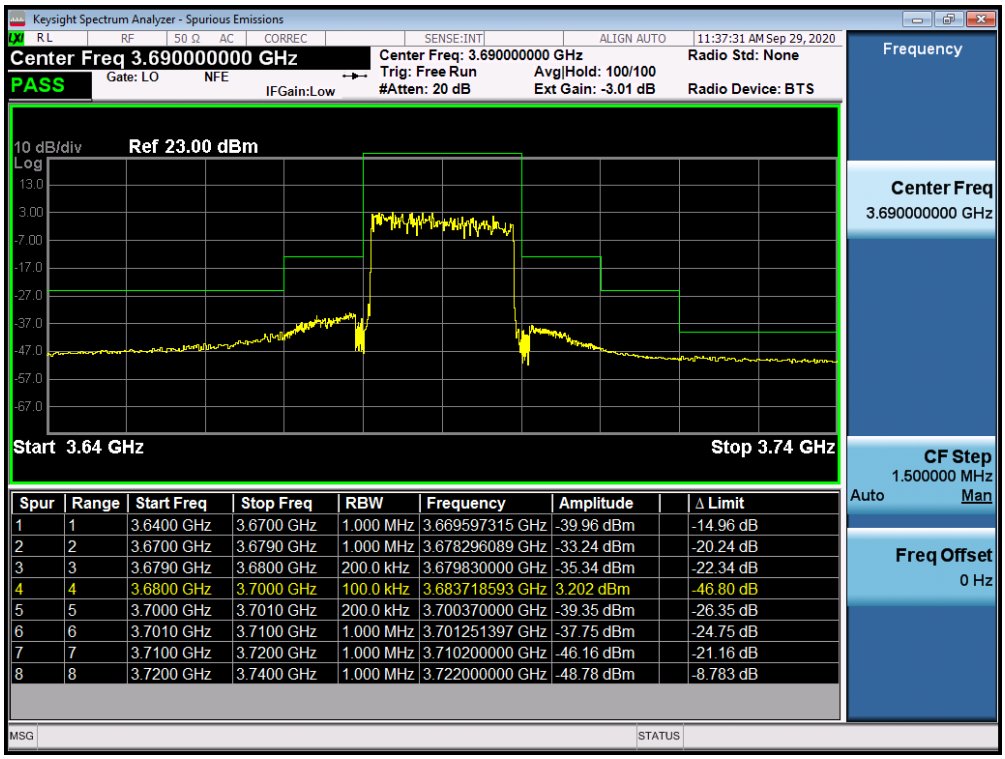
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6400 GHz	3.6700 GHz	1.000 MHz	3.669798658 GHz	-39.43 dBm	-14.43 dB
2	2	3.6700 GHz	3.6790 GHz	1.000 MHz	3.678798883 GHz	-32.65 dBm	-19.65 dB
3	3	3.6790 GHz	3.6800 GHz	200.0 kHz	3.679420000 GHz	-35.70 dBm	-22.70 dB
4	4	3.6800 GHz	3.7000 GHz	100.0 kHz	3.687437186 GHz	3.828 dBm	-46.17 dB
5	5	3.7000 GHz	3.7010 GHz	200.0 kHz	3.700810000 GHz	-38.41 dBm	-25.41 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.701452514 GHz	-37.71 dBm	-24.71 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.710300000 GHz	-46.25 dBm	-21.25 dB
8	8	3.7200 GHz	3.7400 GHz	1.000 MHz	3.721400000 GHz	-49.16 dBm	-9.162 dB

Plot 7-185. Channel Edge Plot (20 MHz Channel Bandwidth, 16QAM, High Channel, Port 0)



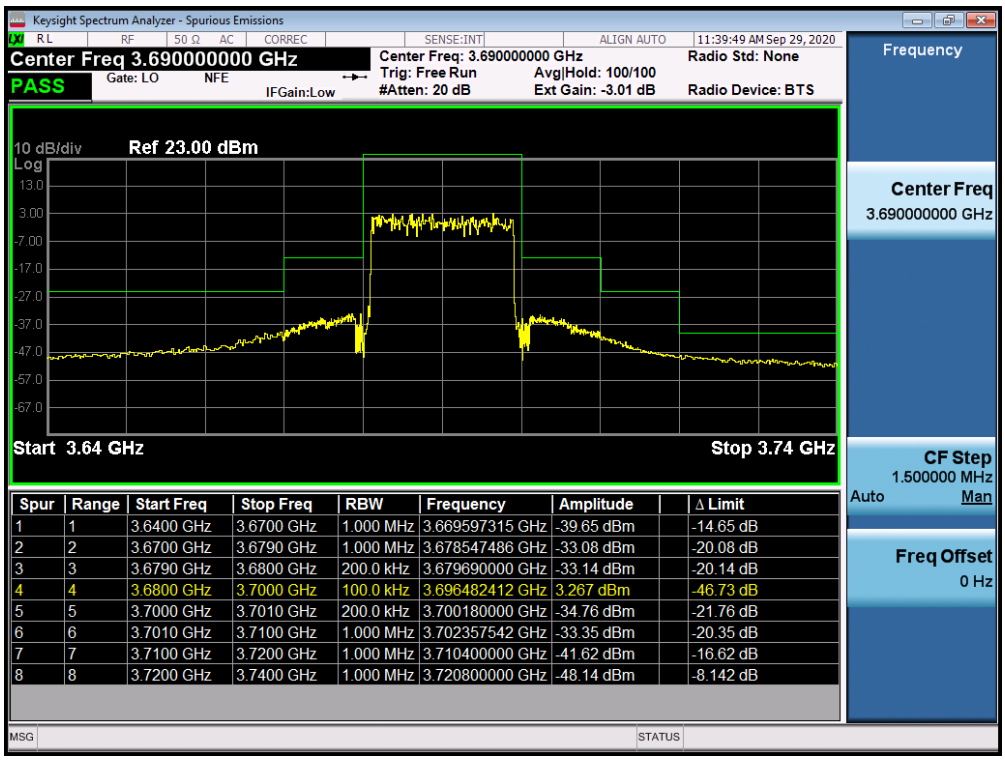
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6400 GHz	3.6700 GHz	1.000 MHz	3.669798658 GHz	-38.68 dBm	-13.68 dB
2	2	3.6700 GHz	3.6790 GHz	1.000 MHz	3.678597765 GHz	-32.82 dBm	-19.82 dB
3	3	3.6790 GHz	3.6800 GHz	200.0 kHz	3.679450000 GHz	-33.72 dBm	-20.72 dB
4	4	3.6800 GHz	3.7000 GHz	100.0 kHz	3.681608040 GHz	3.101 dBm	-46.90 dB
5	5	3.7000 GHz	3.7010 GHz	200.0 kHz	3.700710000 GHz	-36.32 dBm	-23.32 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.702608939 GHz	-33.66 dBm	-20.66 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.710000000 GHz	-41.63 dBm	-16.63 dB
8	8	3.7200 GHz	3.7400 GHz	1.000 MHz	3.721400000 GHz	-47.93 dBm	-7.925 dB

Plot 7-186. Channel Edge Plot (20 MHz Channel Bandwidth, 16QAM, High Channel, Port 1)



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6400 GHz	3.6700 GHz	1.000 MHz	3.669597315 GHz	-39.96 dBm	-14.96 dB
2	2	3.6700 GHz	3.6790 GHz	1.000 MHz	3.678296089 GHz	-33.24 dBm	-20.24 dB
3	3	3.6790 GHz	3.6800 GHz	200.0 kHz	3.679830000 GHz	-35.34 dBm	-22.34 dB
4	4	3.6800 GHz	3.7000 GHz	100.0 kHz	3.683718593 GHz	3.202 dBm	-46.80 dB
5	5	3.7000 GHz	3.7010 GHz	200.0 kHz	3.700370000 GHz	-39.35 dBm	-26.35 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.701251397 GHz	-37.75 dBm	-24.75 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.710200000 GHz	-46.16 dBm	-21.16 dB
8	8	3.7200 GHz	3.7400 GHz	1.000 MHz	3.722000000 GHz	-48.78 dBm	-8.783 dB

Plot 7-187. Channel Edge Plot (20 MHz Channel Bandwidth, 64QAM, High Channel, Port 0)



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6400 GHz	3.6700 GHz	1.000 MHz	3.669597315 GHz	-39.65 dBm	-14.65 dB
2	2	3.6700 GHz	3.6790 GHz	1.000 MHz	3.678547486 GHz	-33.08 dBm	-20.08 dB
3	3	3.6790 GHz	3.6800 GHz	200.0 kHz	3.679690000 GHz	-33.14 dBm	-20.14 dB
4	4	3.6800 GHz	3.7000 GHz	100.0 kHz	3.696482412 GHz	3.267 dBm	-46.73 dB
5	5	3.7000 GHz	3.7010 GHz	200.0 kHz	3.700180000 GHz	-34.76 dBm	-21.76 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.702357542 GHz	-33.35 dBm	-20.35 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.710400000 GHz	-41.62 dBm	-16.62 dB
8	8	3.7200 GHz	3.7400 GHz	1.000 MHz	3.720800000 GHz	-48.14 dBm	-8.142 dB

Plot 7-188. Channel Edge Plot (20 MHz Channel Bandwidth, 64QAM, High Channel, Port 1)

7.10 Frequency Stability / Temperature Variation

§2.1055

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-E-2016. The frequency stability of the transmitter is measured by:

a) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.

b) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Test Procedure Used

ANSI/TIA-603-E-2016

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

None

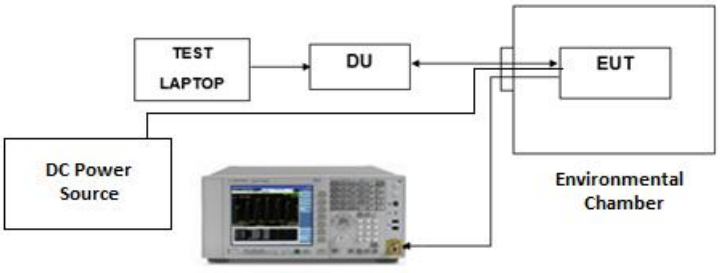


Figure 7-8. Test Instrument & Measurement Setup

Frequency Stability Measurements

OPERATING FREQUENCY :	3,625,000,000	Hz
REFERENCE VOLTAGE :	12.00	VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100	12.0	+ 20	3,625,000,000.340	0.0	0.000 000 000
100		- 30	3,625,000,001.350	1.0	0.000 000 028
100		- 20	3,625,000,001.950	1.6	0.000 000 044
100		- 10	3,625,000,000.190	-0.2	-0.000 000 004
100		0	3,625,000,000.500	0.2	0.000 000 004
100		+ 10	3,625,000,001.190	0.8	0.000 000 023
100		+ 20	3,624,999,998.750	-1.6	-0.000 000 044
100		+ 30	3,624,999,998.570	-1.8	-0.000 000 049
100		+ 40	3,625,000,001.280	0.9	0.000 000 026
100		+ 50	3,625,000,001.210	0.9	0.000 000 024
85	10.2	+ 20	3,625,000,001.190	0.8	0.000 000 023
115	13.8	+ 20	3,625,000,000.230	-0.1	-0.000 000 003

Table 7-15. Frequency Stability Data (LTE Band 48)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

This Frequency Stability / Temperature Variation test is adopted of test case 10 MHz with 16QAM as the worst case based on RF output power.

Frequency Stability Measurements

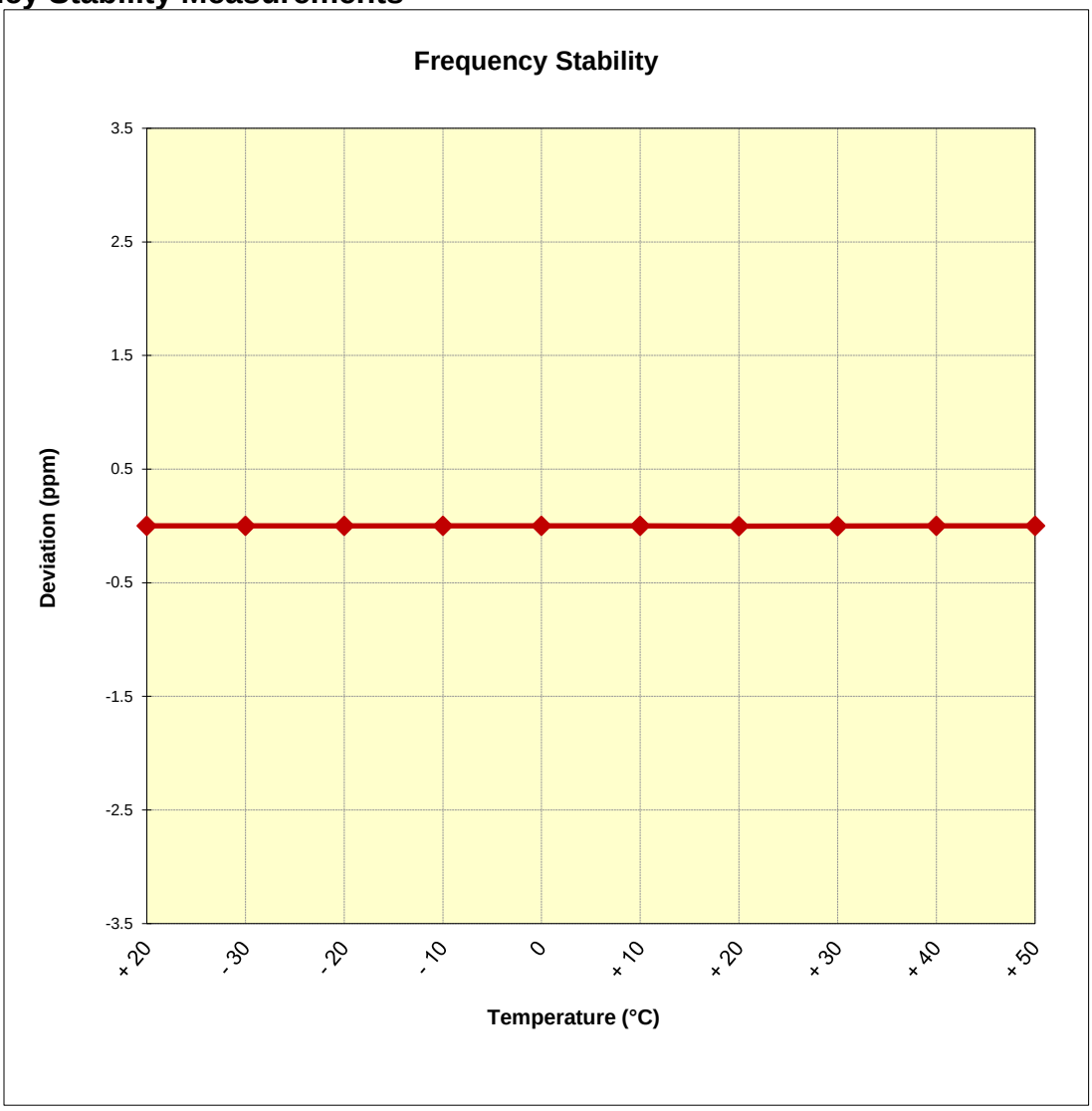


Figure 7-9. Frequency Stability Graph (LTE Band 48)

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **EUCAST Co., Ltd. Small Cell Fixed Base station FCC ID: 2AXTR-ECL2248-2723** complies with all of the Category A CBSD requirements of Part 96 of the FCC Rules.