



FCC Test Report

ANNEX 5 LTE BAND 12

FCC ID: 2A8LQ-WE006US

Applicant: Hareau SAS (Weenect)
Address: 101 rue de Sèvres, 75272 Paris cedex 06
Manufacturer: Toplovo Industrial Co., Limited
Address: 4F, Building B2b, Yingzhan Industrial Park, Kengzi Town, Pingshan district, Shenzhen, China. 518122
EUT: WE006US Gps tracker
Trade Mark: N/A
Model Number: WE006US
WE006US belongs to general model number WE006
Date of Receipt: Aug. 15, 2022
Test Date: Aug. 15, 2022 – Oct. 26, 2022
Date of Report: Oct. 26, 2022
Prepared By: Shenzhen DL Testing Technology Co., Ltd.
Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China
FCC CFR Title 47 Part27
FCC CFR Title 47 Part24 Subpart E
Applicable Standards: TIA-603 Rev E 2016
FCC KDB 971168 D01 Power Meas. License Digital Systems v03v01
ANSI C63.26:2015
Test Result: Pass
Report Number: DL-20220825029E

Prepared (Test Engineer): Pxing Huang
Reviewer (Supervisor): Jack Bu
Approved (Manager): Jade Yang



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.



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**1. EMISSION TEST RESULTS****1.1. -26dB and 99% Occupied Bandwidth****1.1.1. Test Result**

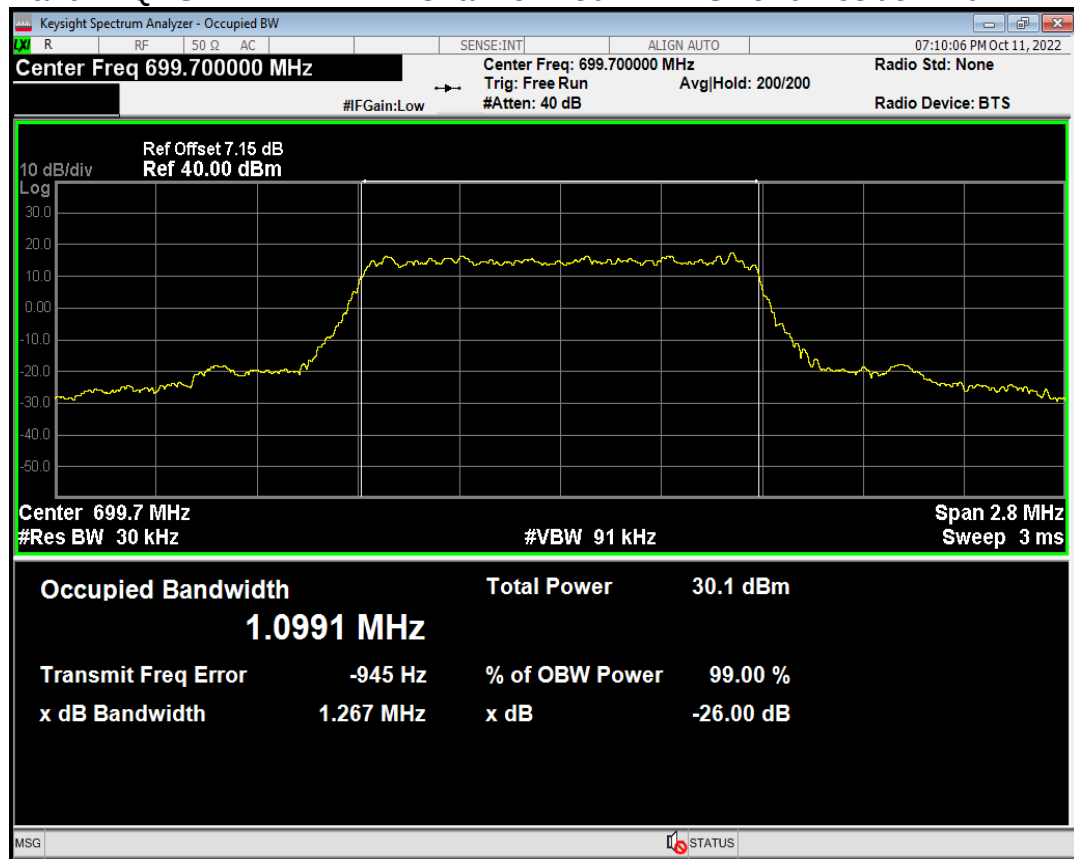
EUT Mode Bandwidth	Modulation	Frequency (MHz)	99% Occupy bandwidth (MHz)	-26dB bandwidth (MHz)
LTE Band 12 1.4MHz	699.7	QPSK	1.099	1.267
		16-QAM	1.105	1.295
	707.5	QPSK	1.094	1.276
		16-QAM	1.102	1.294
	715.3	QPSK	1.096	1.284
		16-QAM	1.093	1.258
LTE Band 12 3 MHz	700.5	QPSK	2.702	2.960
		16-QAM	2.692	2.972
	707.5	QPSK	2.699	2.956
		16-QAM	2.703	3.001
	714.5	QPSK	2.703	2.991
		16-QAM	2.705	2.982
LTE Band 12 5 MHz	701.5	QPSK	4.520	4.966
		16-QAM	4.507	4.946
	707.5	QPSK	4.508	4.887
		16-QAM	4.541	4.948
	713.5	QPSK	4.514	4.990
		16-QAM	4.496	4.978
LTE Band 12 10 MHz	704.0	QPSK	8.971	9.815
	707.5	QPSK	8.961	9.817
	711.0	QPSK	8.962	9.778

Note: Measurement Uncertainty: $\pm 20\text{Hz}$.

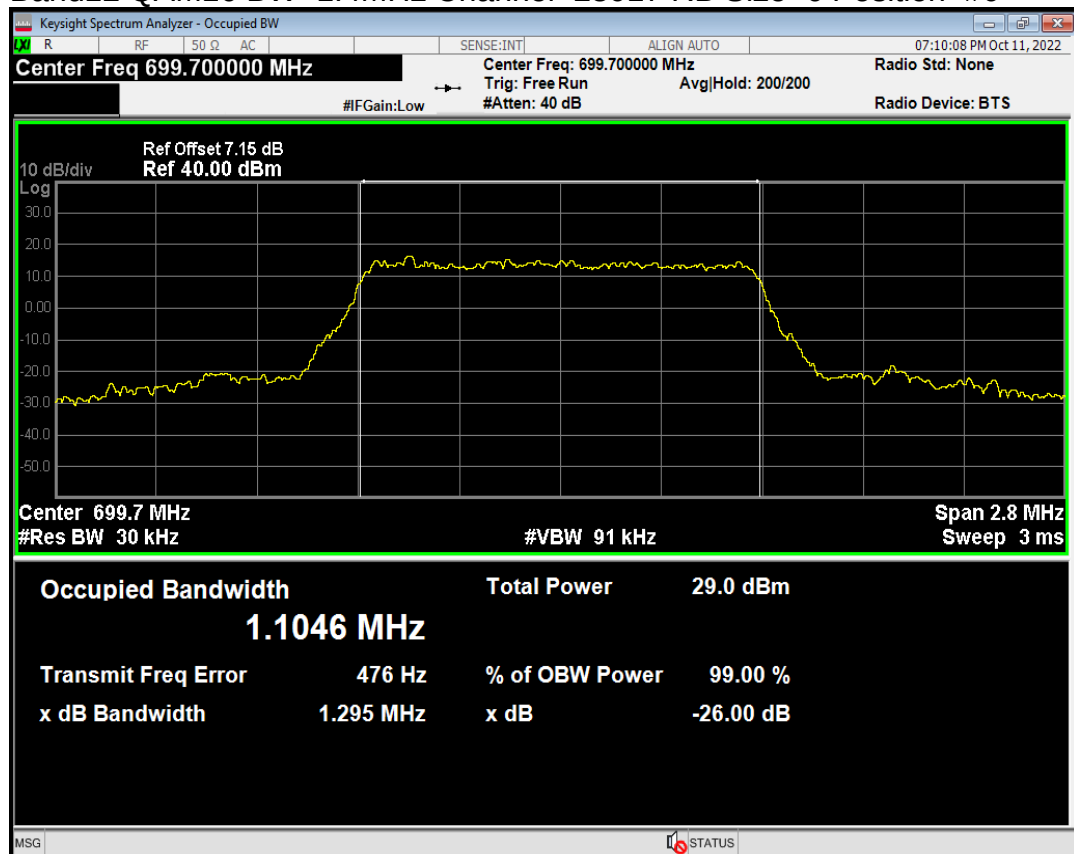
Test plot as follows:



Band12 QPSK BW=1.4MHz Channel=23017 RB Size=6 Position=#0

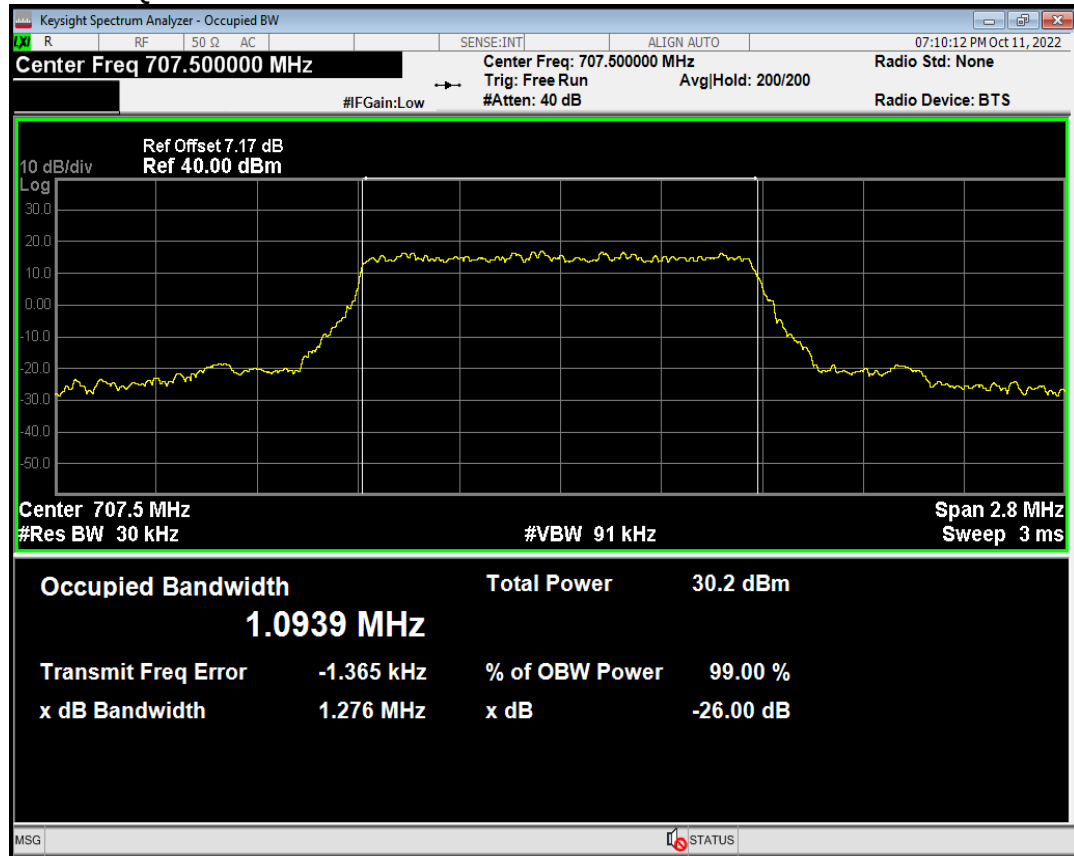


Band12 QAM16 BW=1.4MHz Channel=23017 RB Size=6 Position=#0

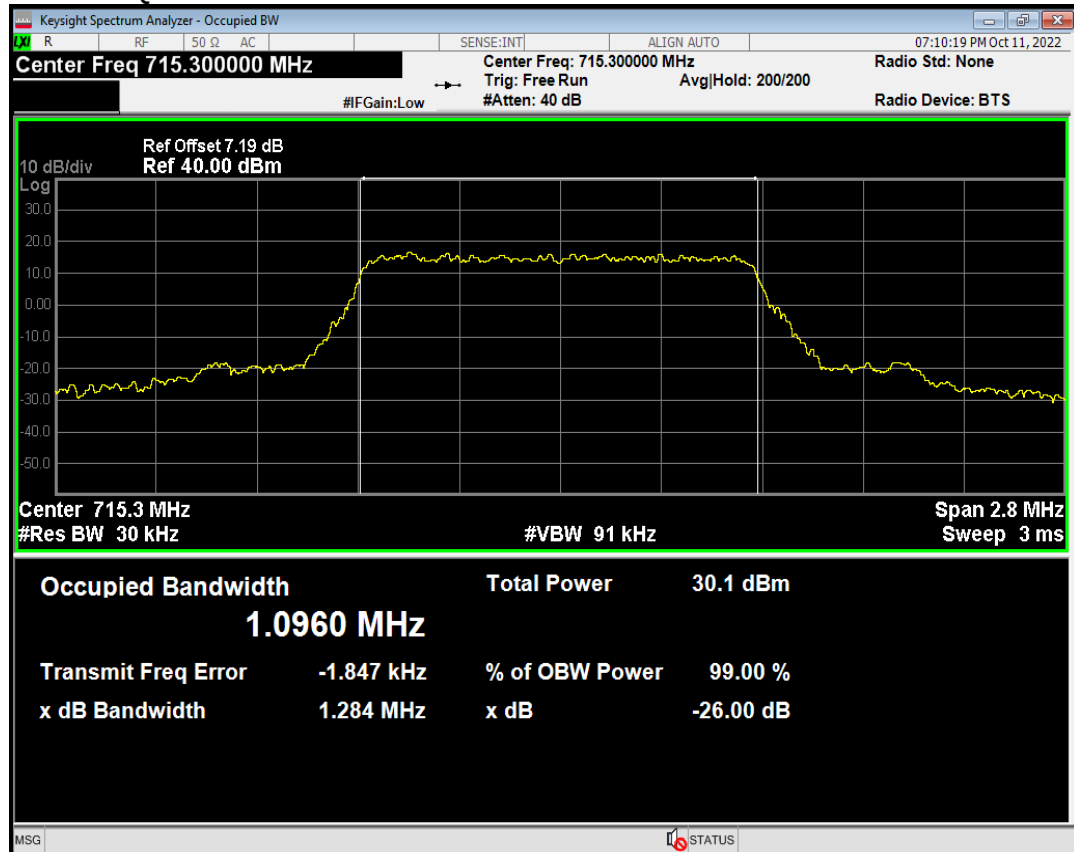




Band12 QPSK BW=1.4MHz Channel=23095 RB Size=6 Position=#0

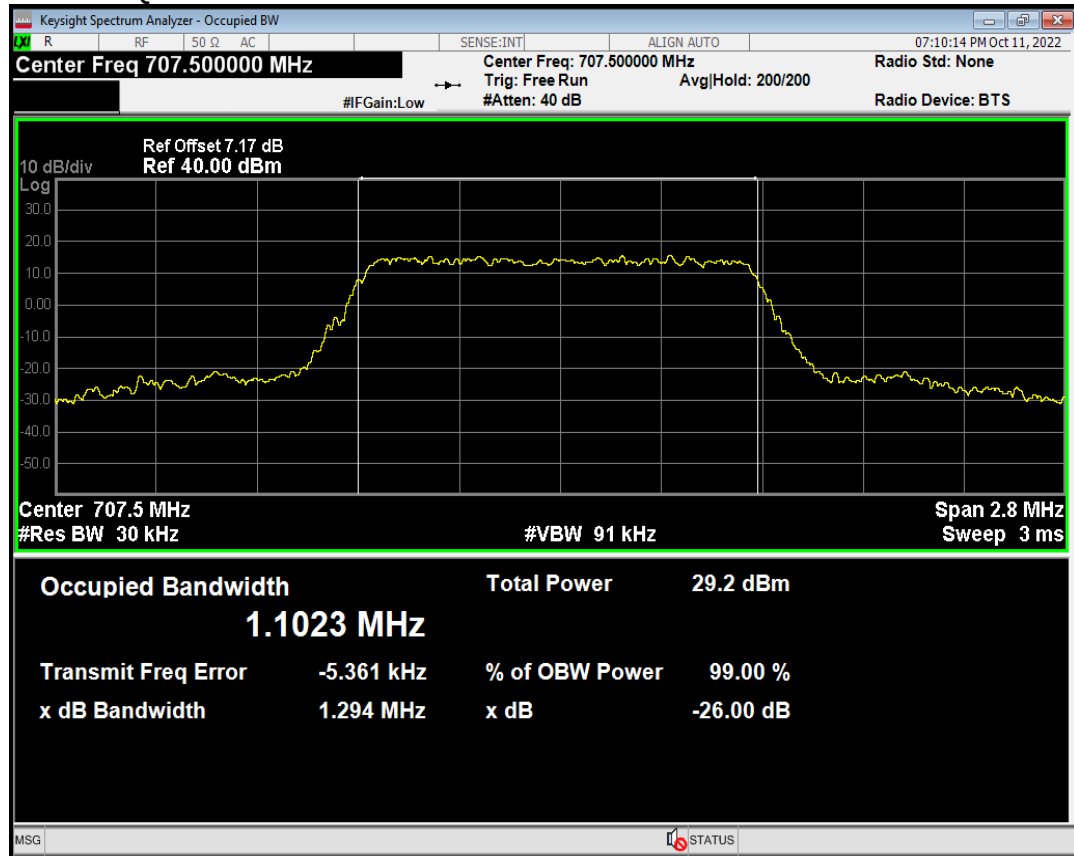


Band12 QPSK BW=1.4MHz Channel=23173 RB Size=6 Position=#0

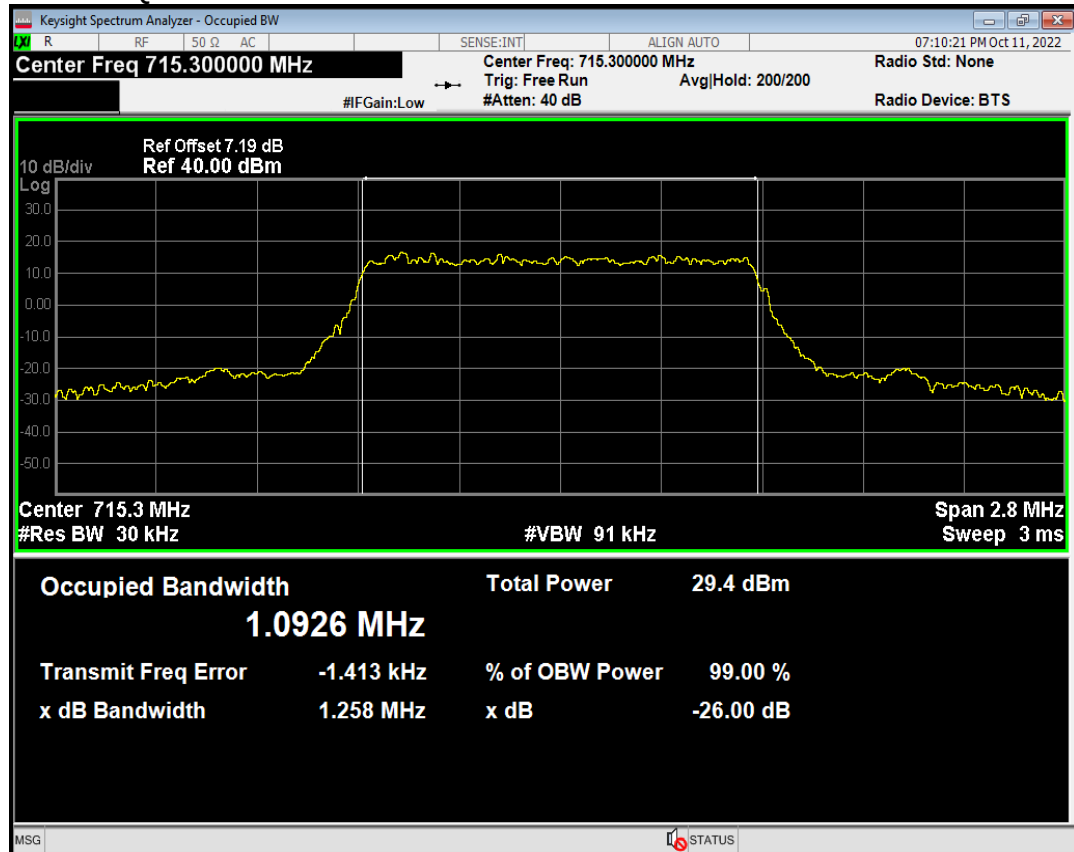




Band12 QAM16 BW=1.4MHz Channel=23095 RB Size=6 Position=#0

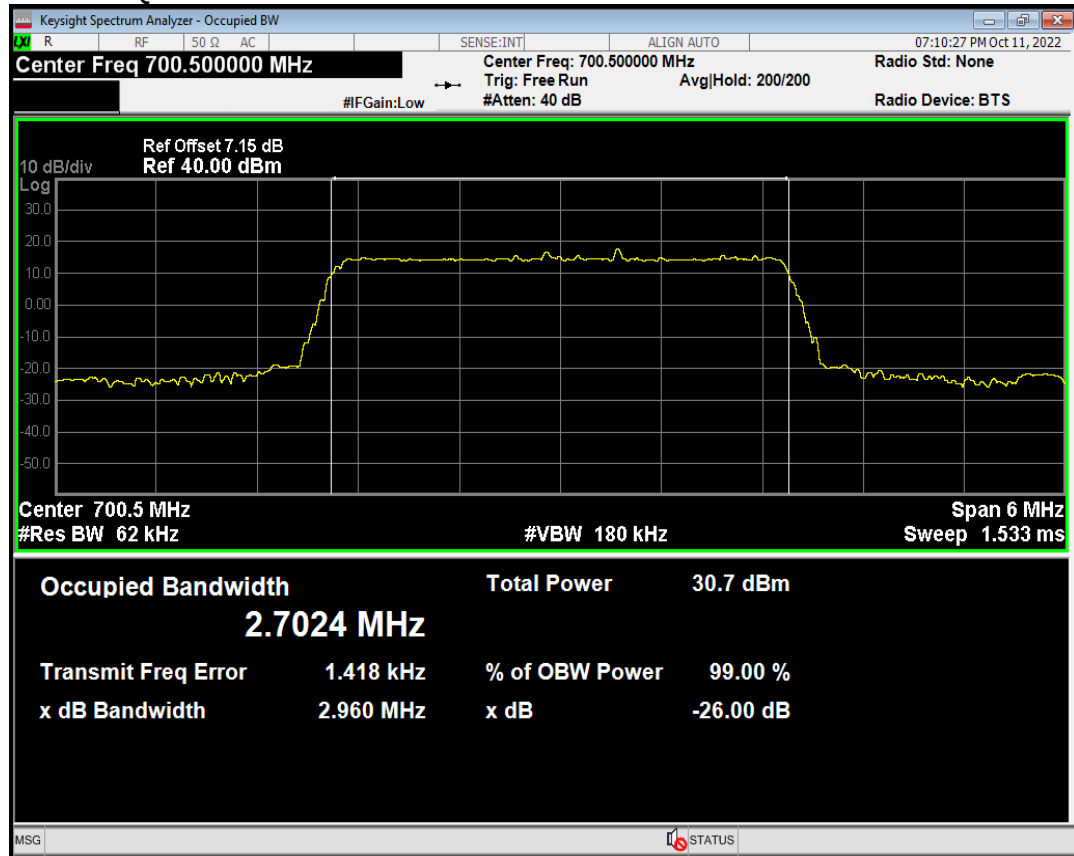


Band12 QAM16 BW=1.4MHz Channel=23173 RB Size=6 Position=#0

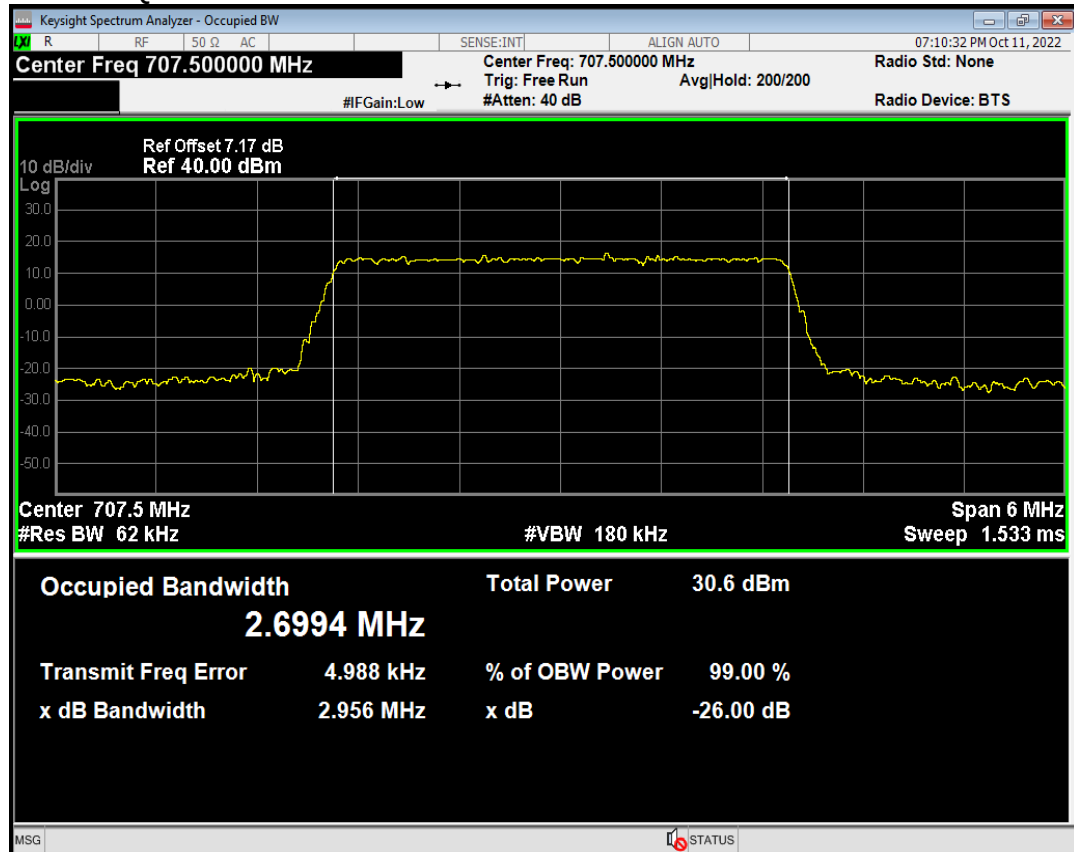




Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0

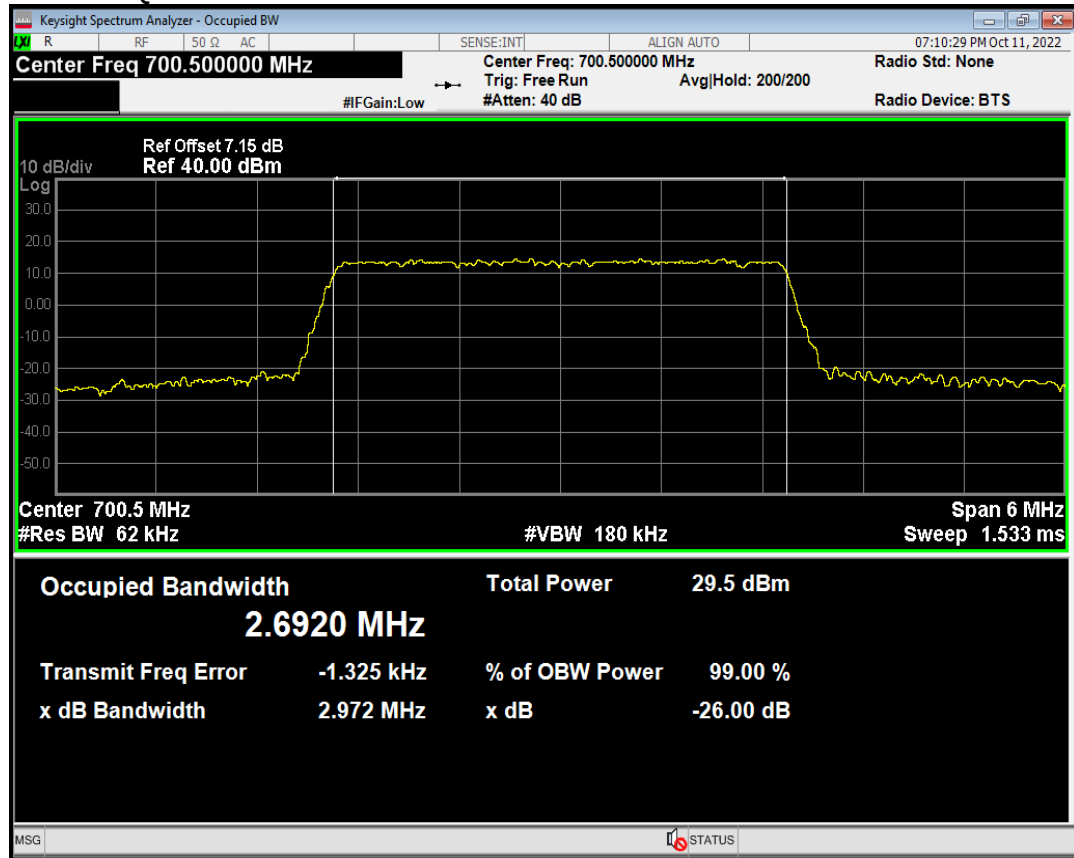


Band12 QPSK BW=3MHz Channel=23095 RB Size=15 Position=#0

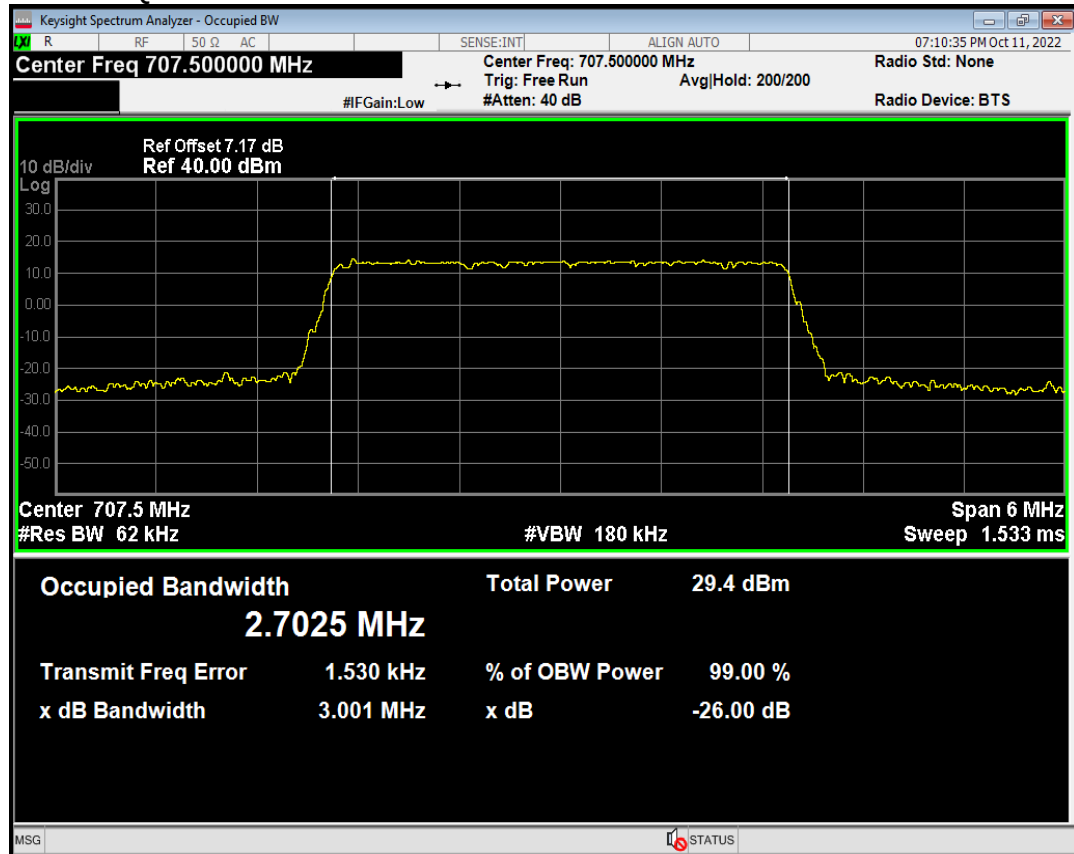




Band12 QAM16 BW=3MHz Channel=23025 RB Size=15 Position=#0

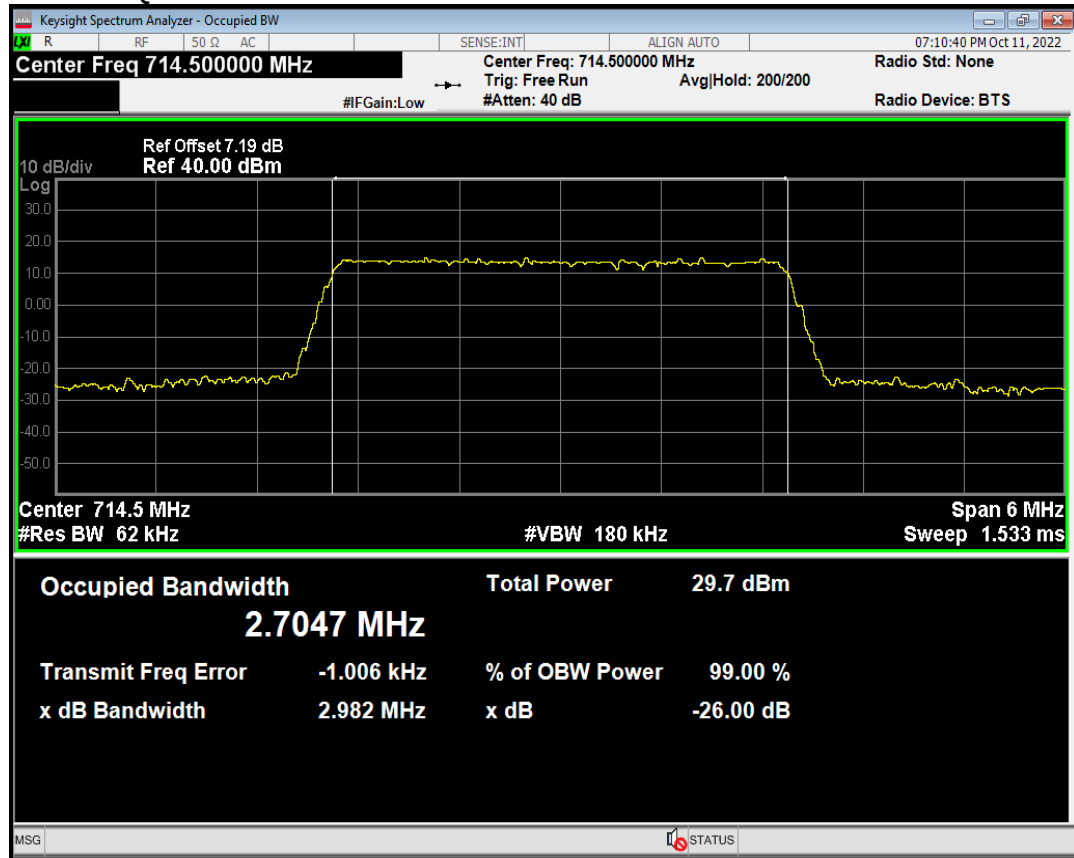


Band12 QAM16 BW=3MHz Channel=23095 RB Size=15 Position=#0

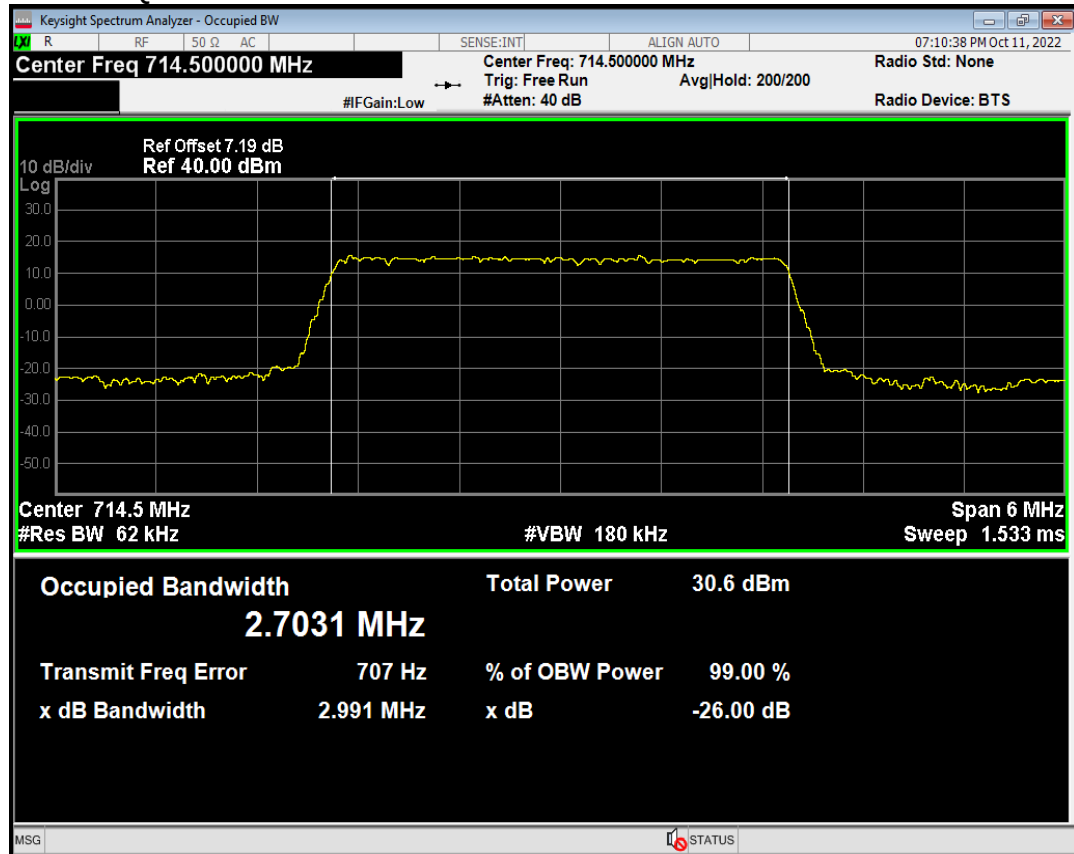




Band12 QAM16 BW=3MHz Channel=23165 RB Size=15 Position=#0

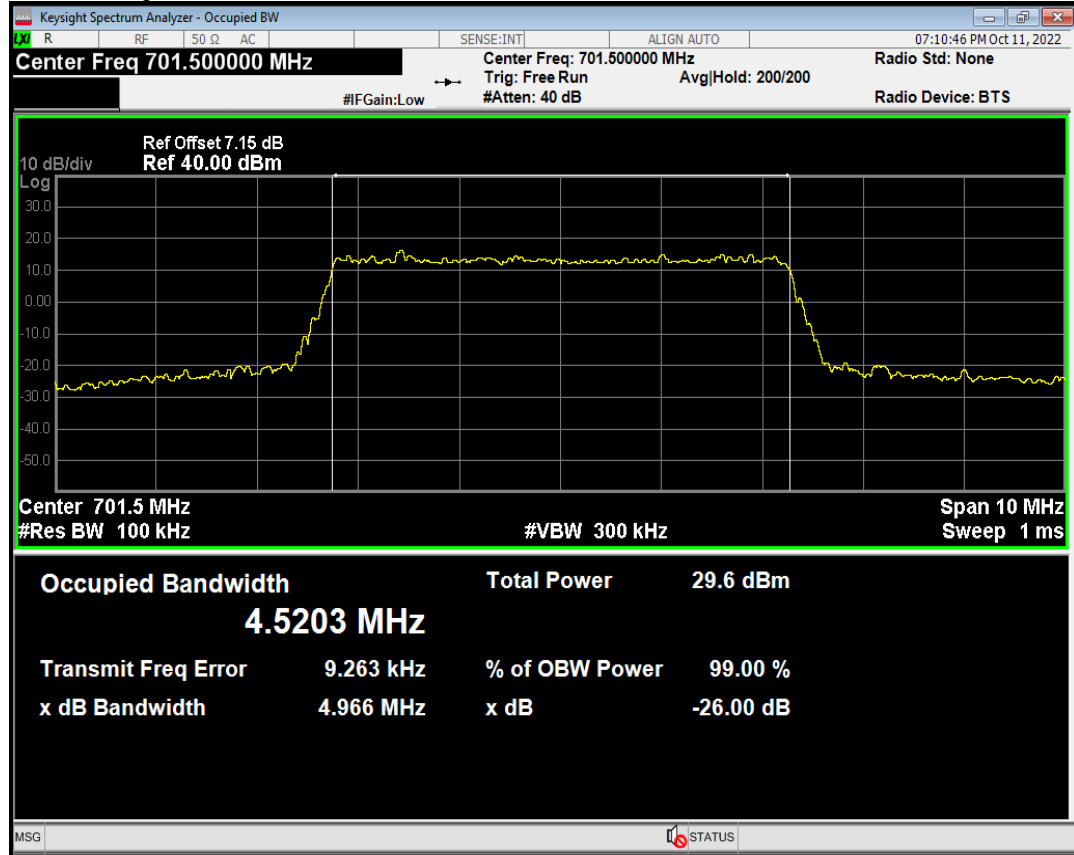


Band12 QPSK BW=3MHz Channel=23165 RB Size=15 Position=#0

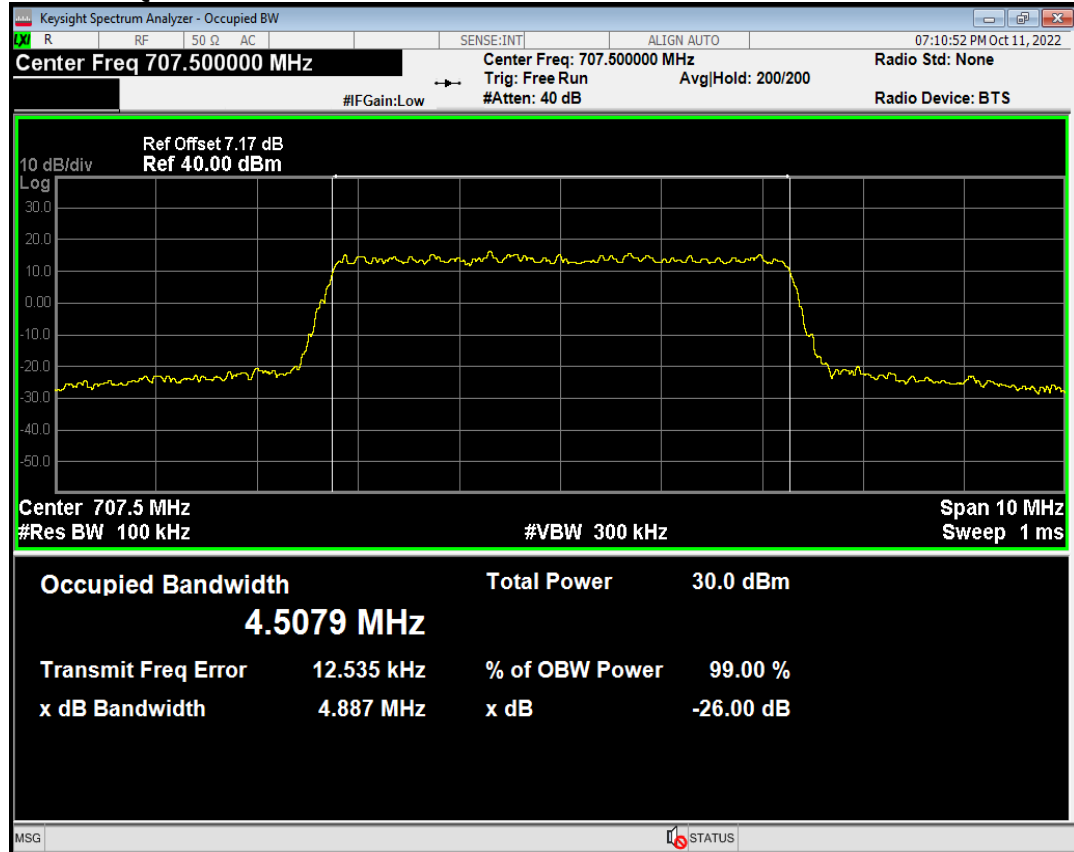




Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0

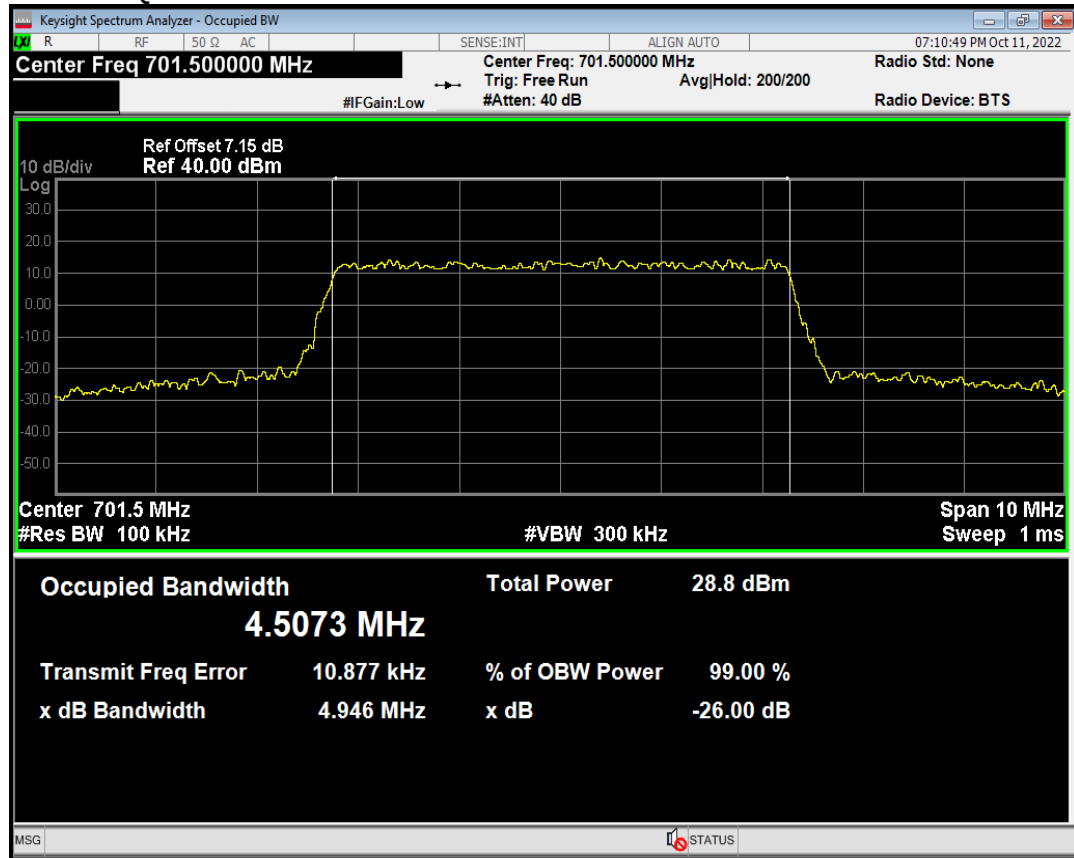


Band12 QPSK BW=5MHz Channel=23095 RB Size=25 Position=#0

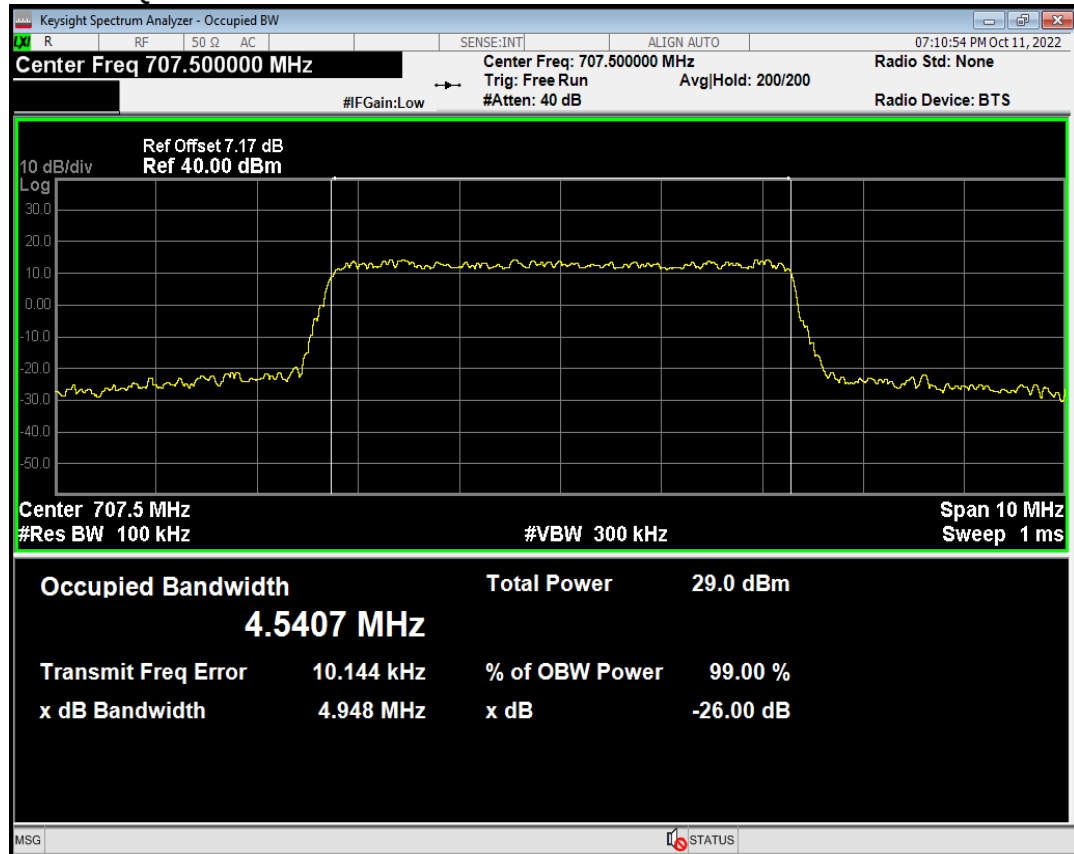




Band12 QAM16 BW=5MHz Channel=23035 RB Size=25 Position=#0

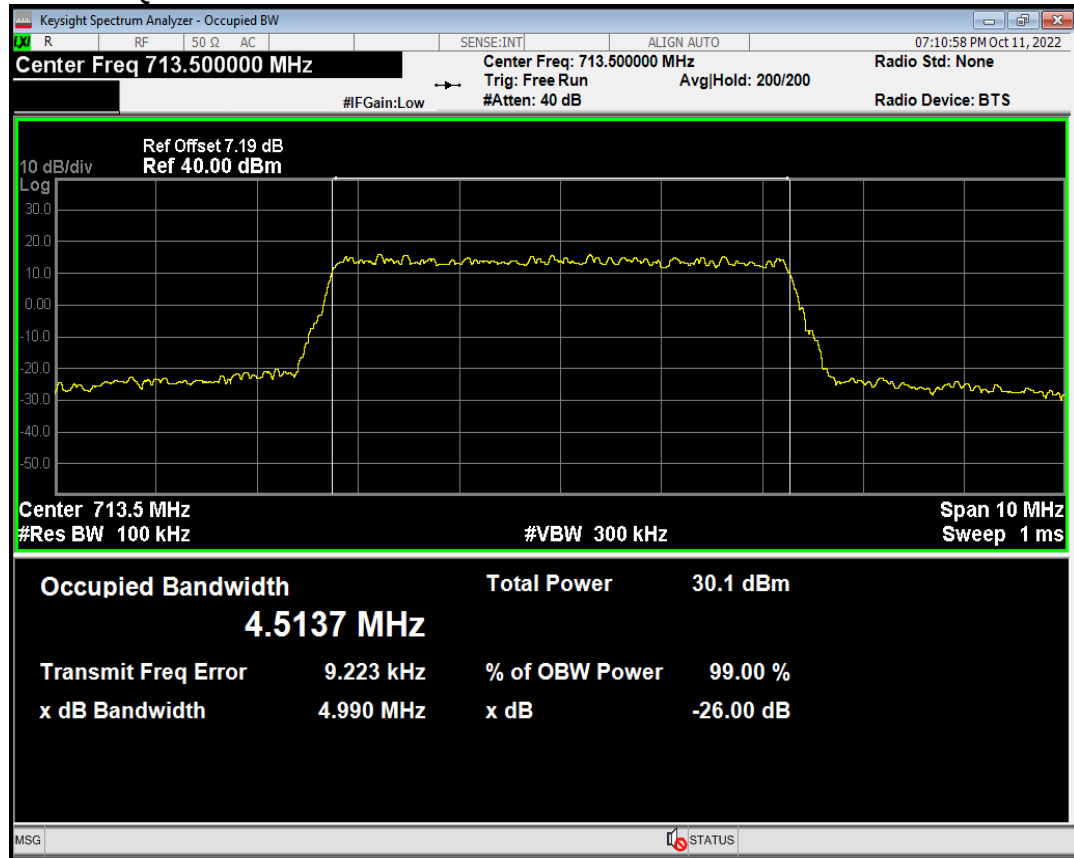


Band12 QAM16 BW=5MHz Channel=23095 RB Size=25 Position=#0

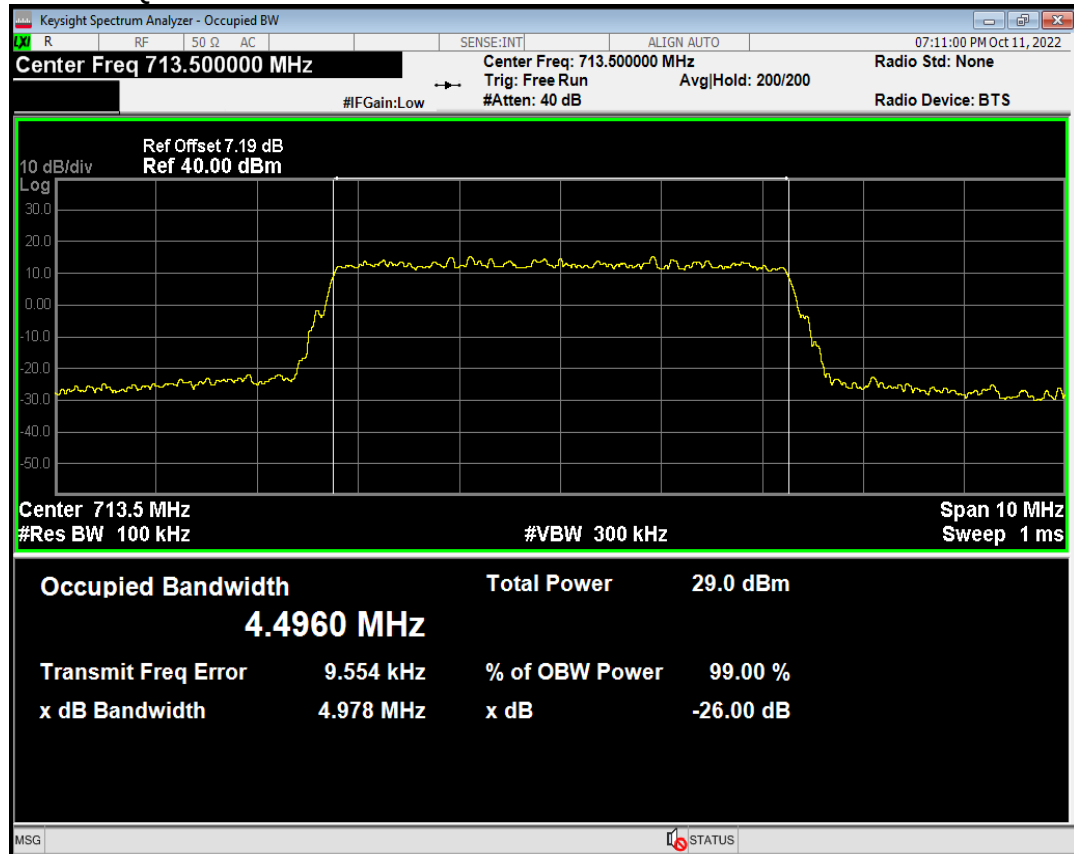




Band12 QPSK BW=5MHz Channel=23155 RB Size=25 Position=#0

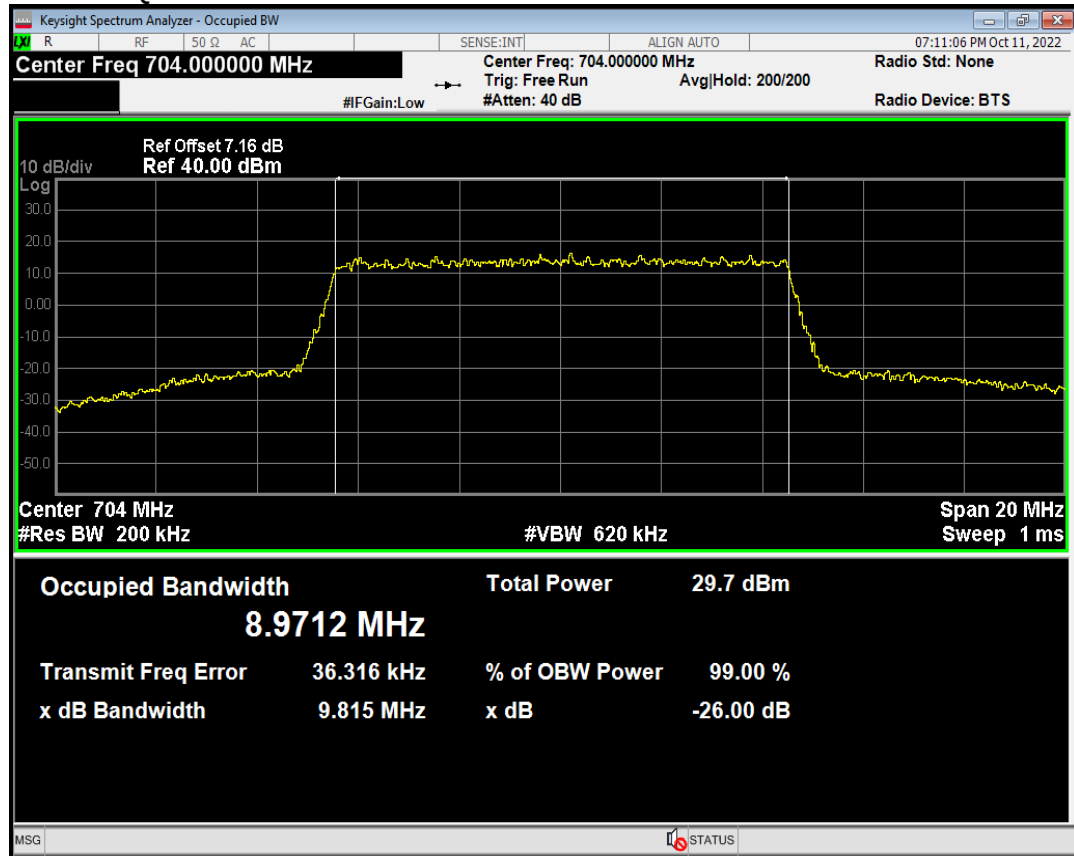


Band12 QAM16 BW=5MHz Channel=23155 RB Size=25 Position=#0

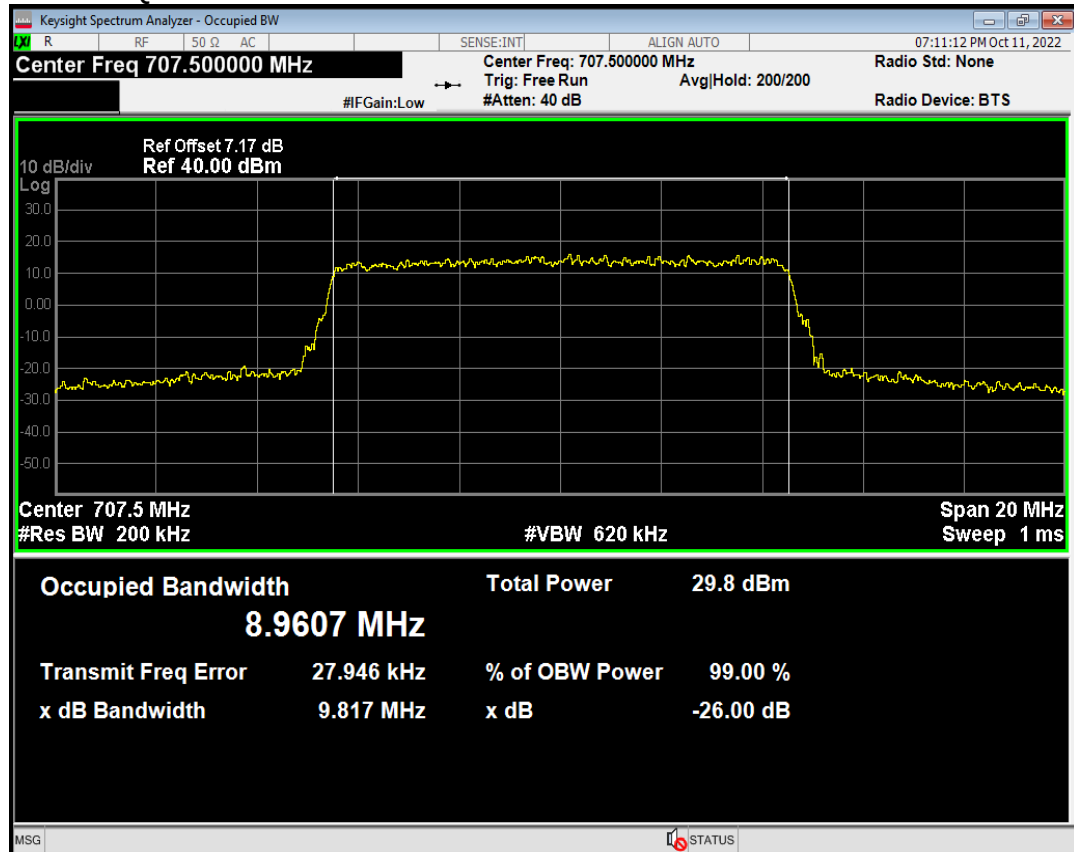




Band12 QPSK BW=10MHz Channel=23060 RB Size=50 Position=#0

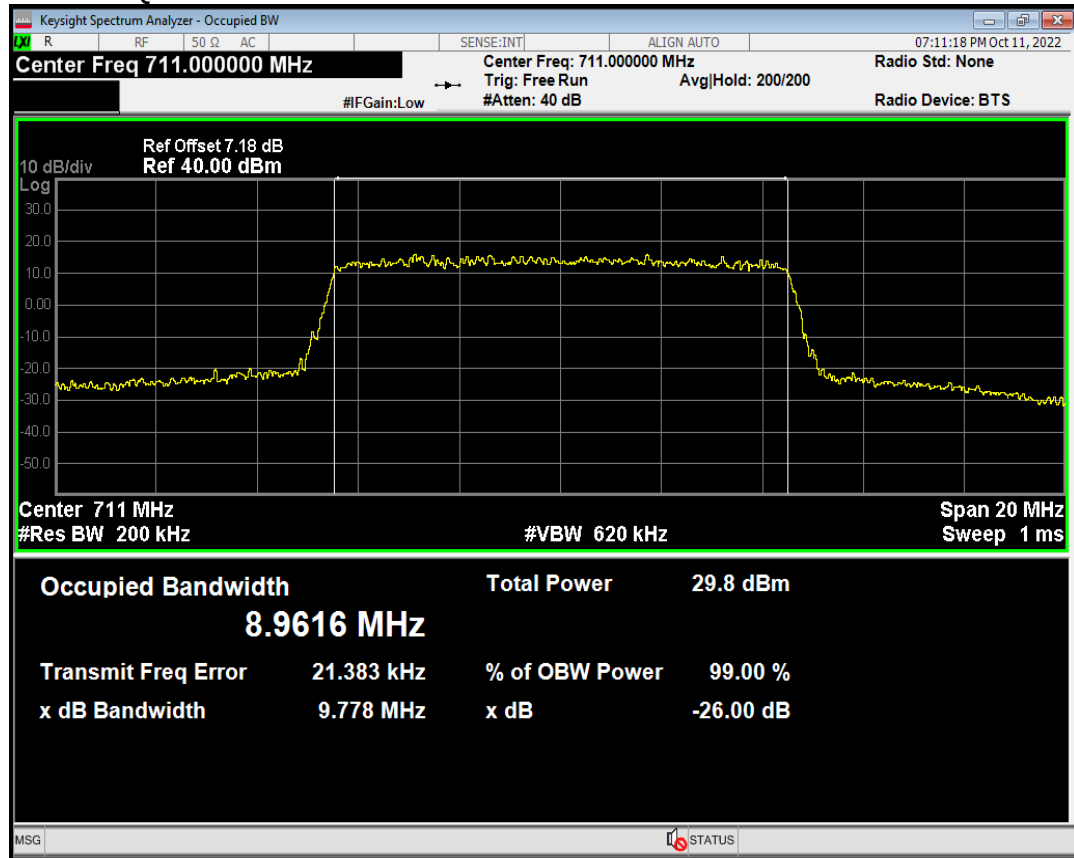


Band12 QPSK BW=10MHz Channel=23095 RB Size=50 Position=#0





Band12 QPSK BW=10MHz Channel=23130 RB Size=50 Position=#0





1.2. Conducted Spurious Emissions

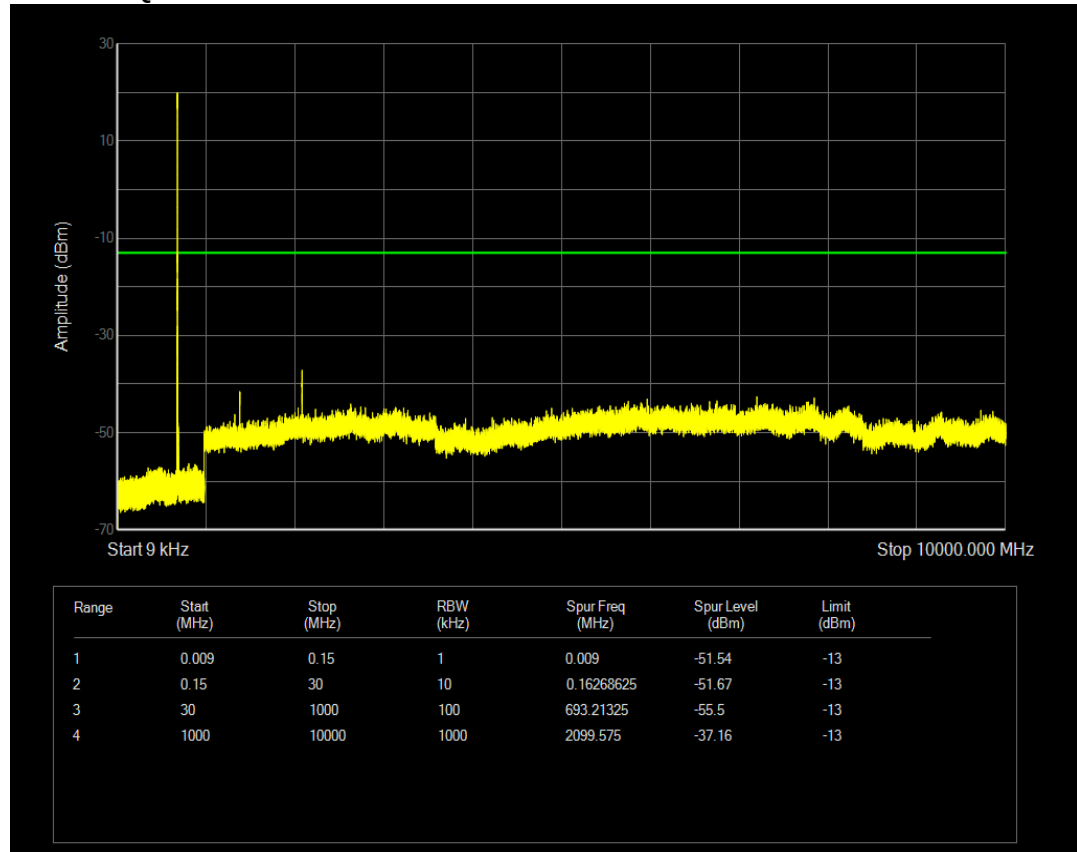
1.2.1. Test Result

The measurement frequency range is from 0.009MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

For LTE mode, the plot only show the QPSK,RB100's data.

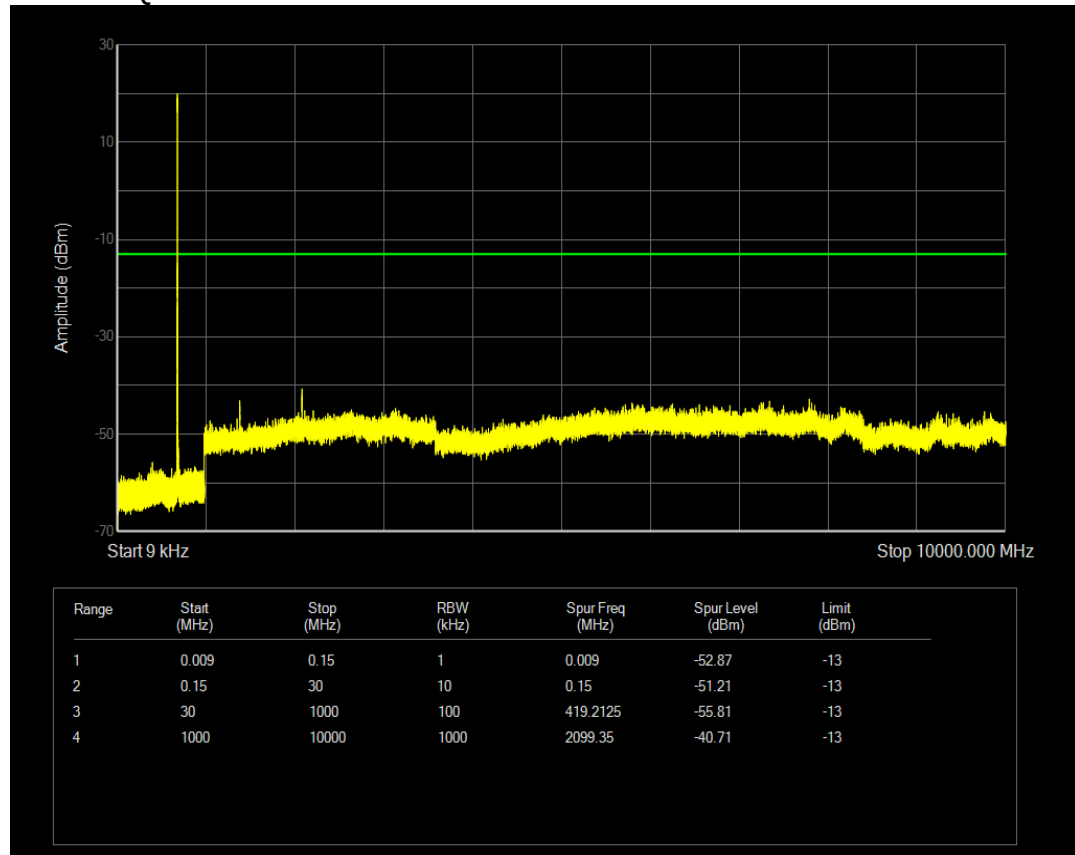
Pass, the table and plot please see annex.

Band12 QPSK BW=1.4MHz Channel=23017 RB Size=6 Position=#0

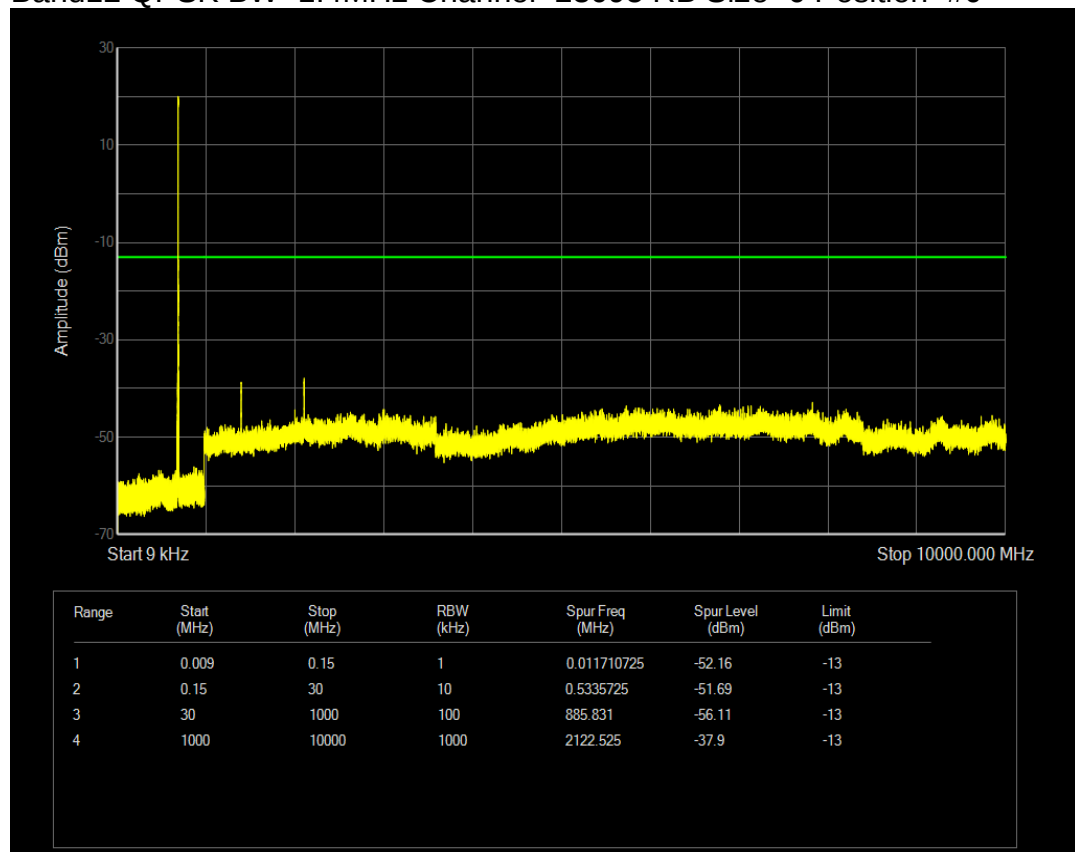




Band12 QAM16 BW=1.4MHz Channel=23017 RB Size=6 Position=#0

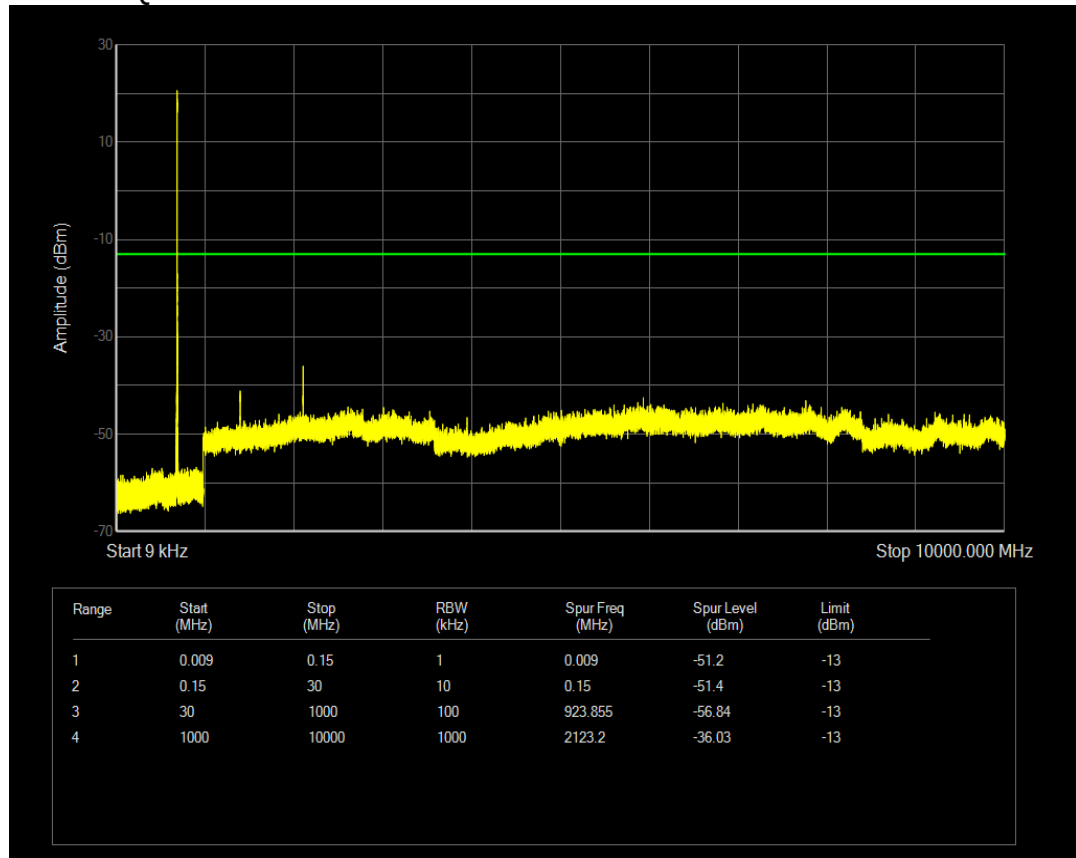


Band12 QPSK BW=1.4MHz Channel=23095 RB Size=6 Position=#0

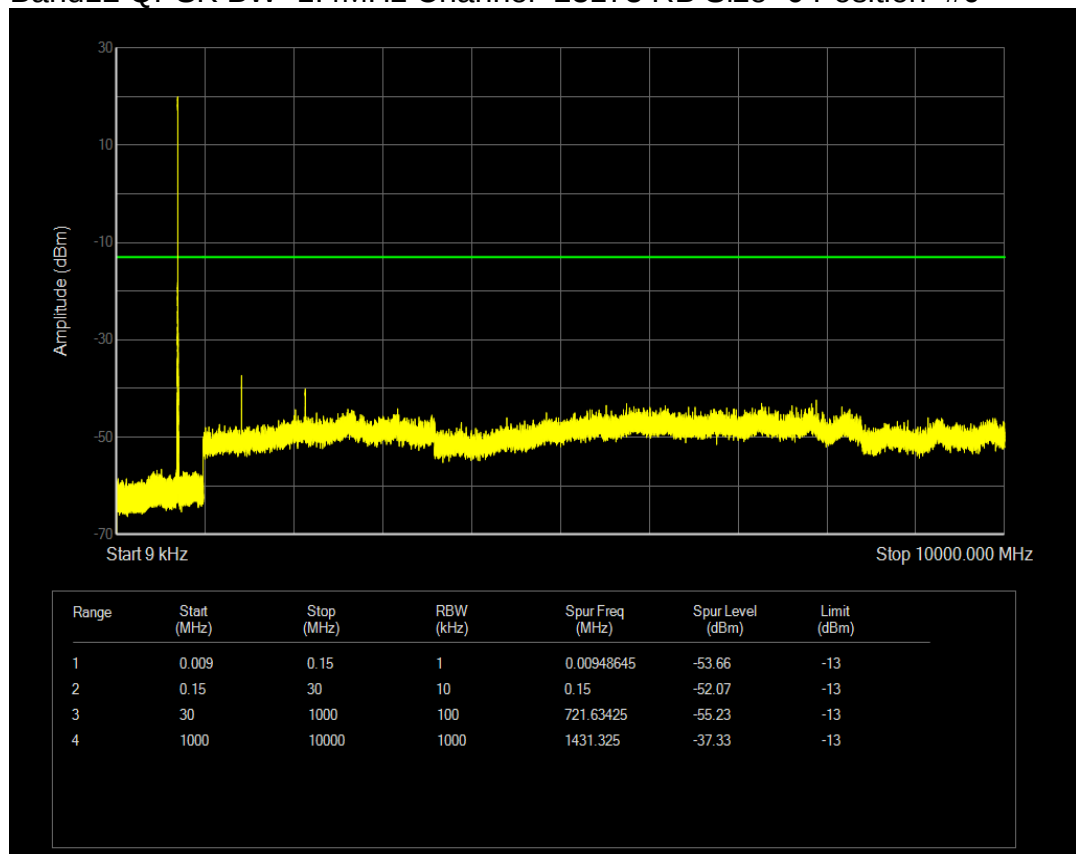




Band12 QAM16 BW=1.4MHz Channel=23095 RB Size=6 Position=#0

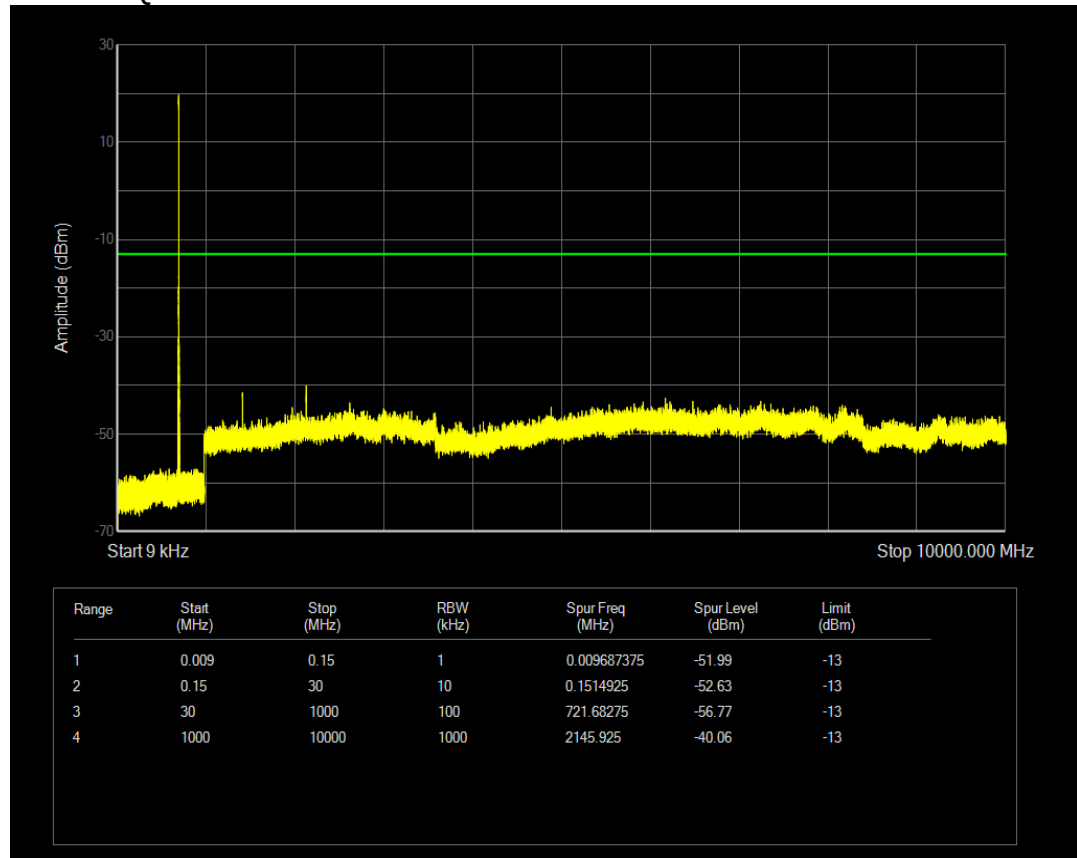


Band12 QPSK BW=1.4MHz Channel=23173 RB Size=6 Position=#0

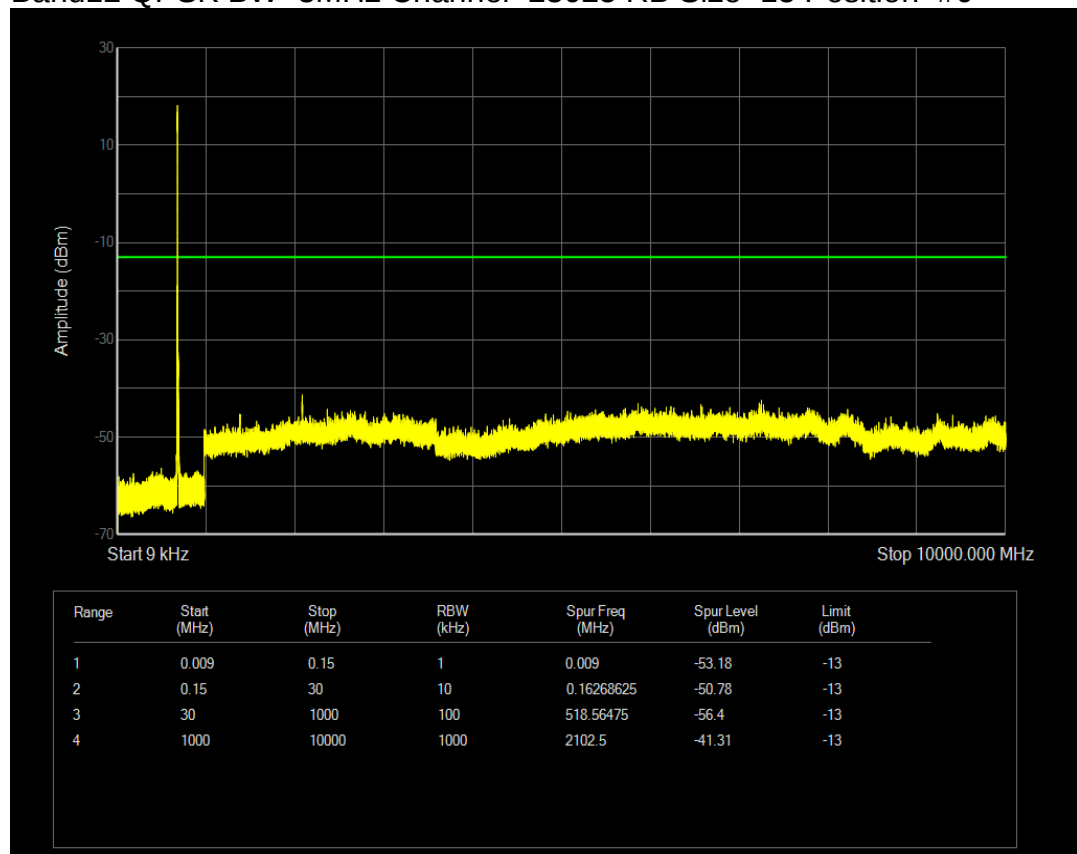




Band12 QAM16 BW=1.4MHz Channel=23173 RB Size=6 Position=#0

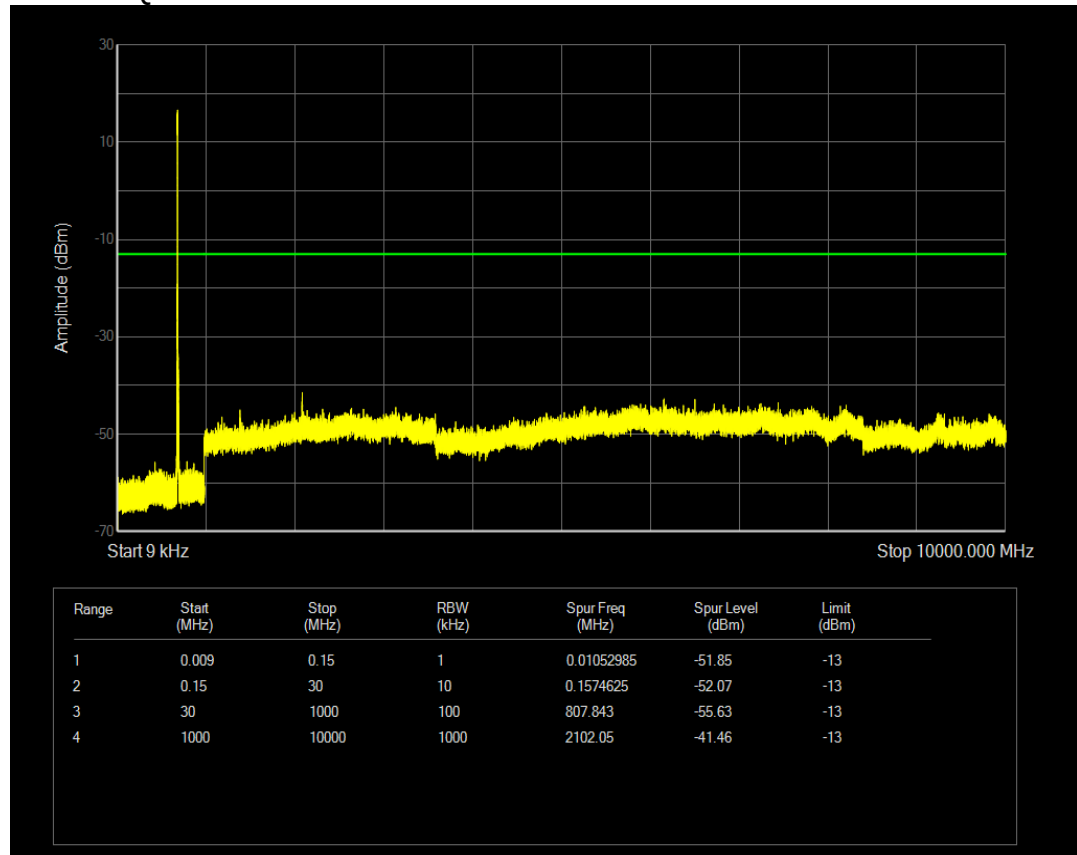


Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0

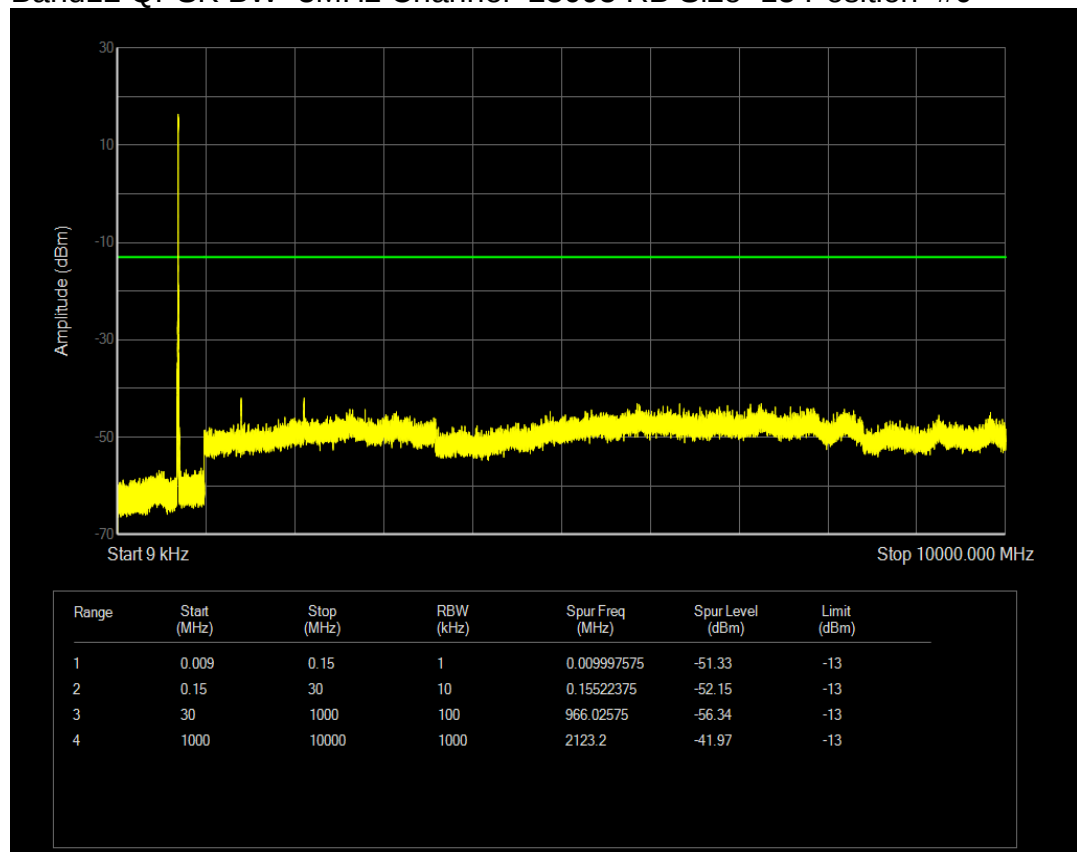




Band12 QAM16 BW=3MHz Channel=23025 RB Size=15 Position=#0

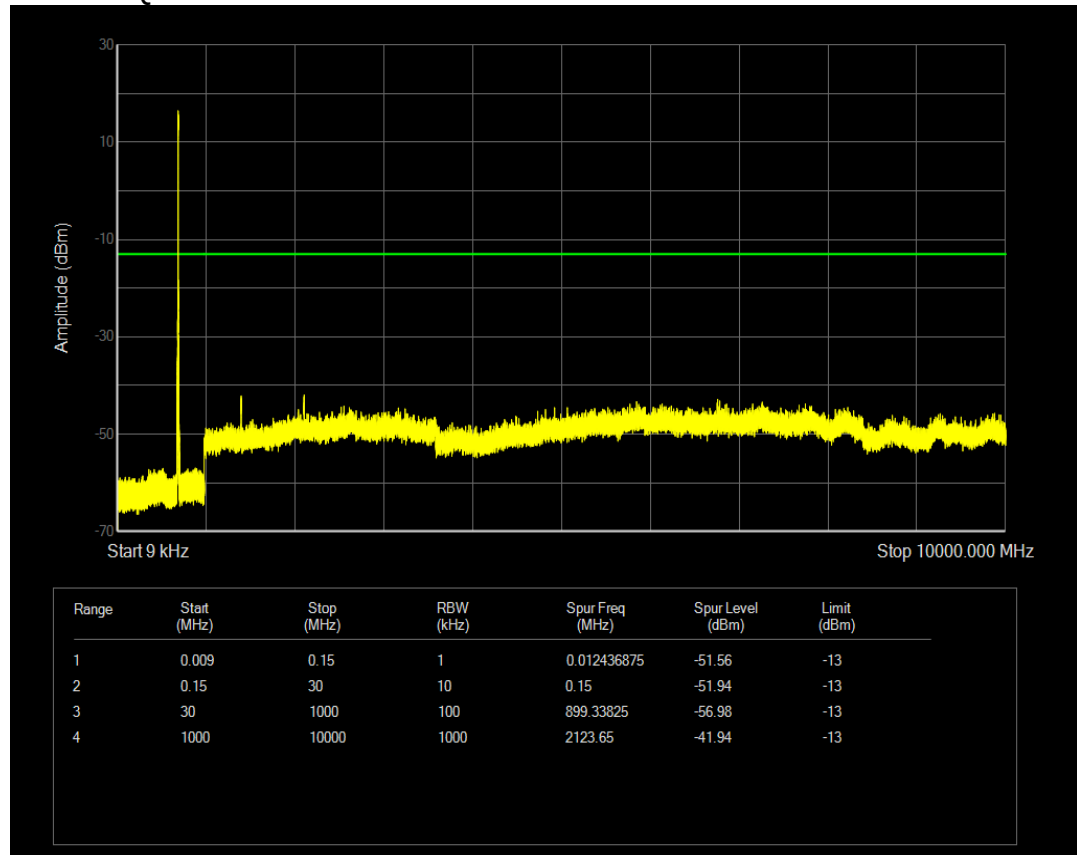


Band12 QPSK BW=3MHz Channel=23095 RB Size=15 Position=#0

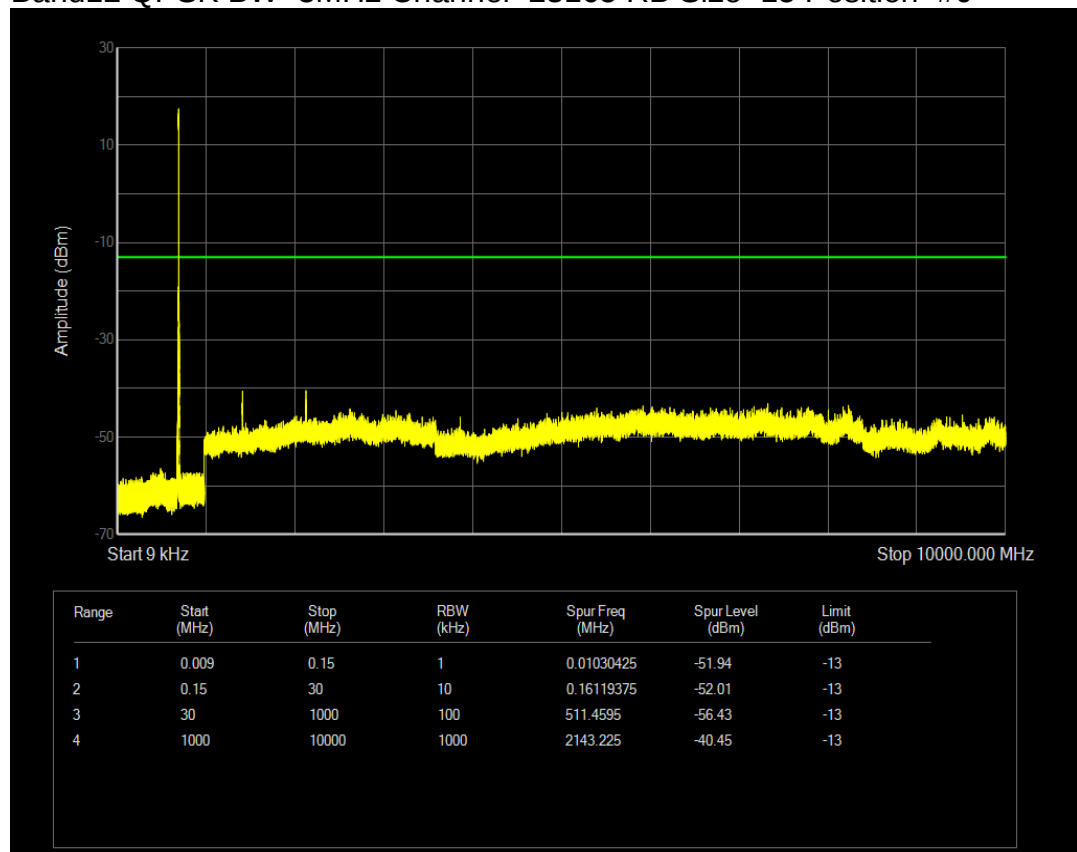




Band12 QAM16 BW=3MHz Channel=23095 RB Size=15 Position=#0

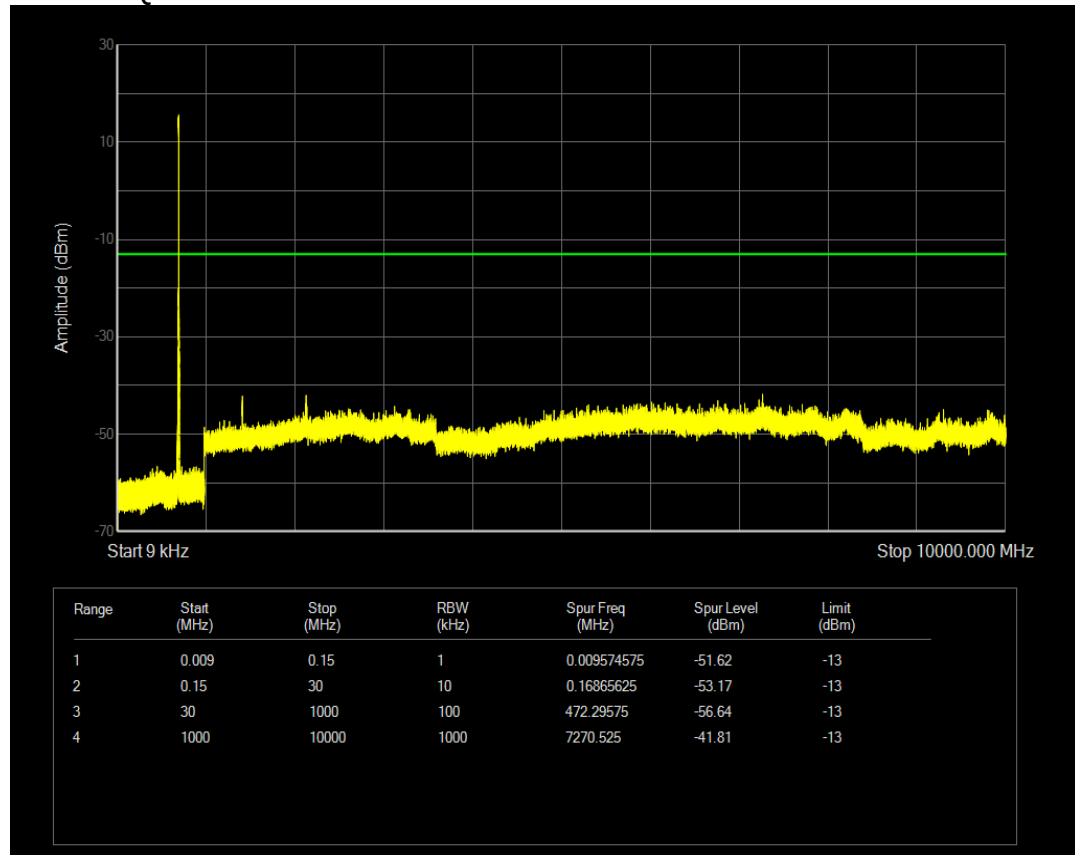


Band12 QPSK BW=3MHz Channel=23165 RB Size=15 Position=#0

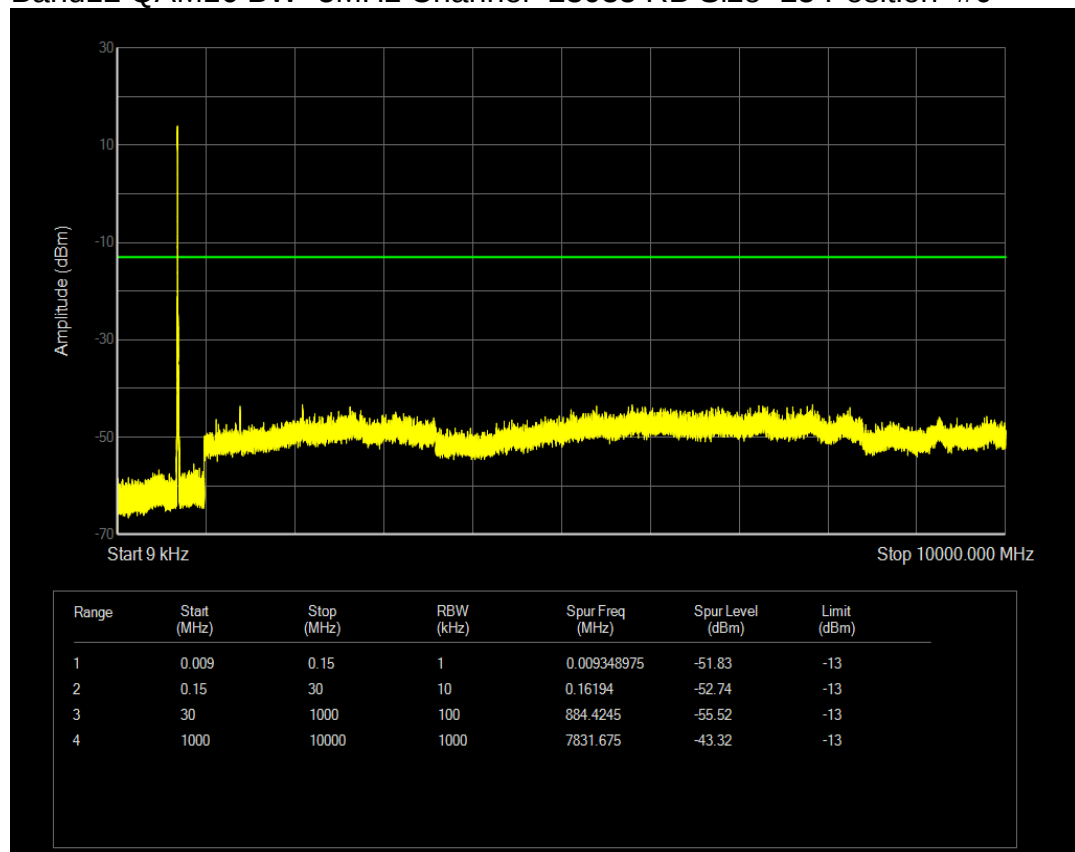




Band12 QAM16 BW=3MHz Channel=23165 RB Size=15 Position=#0

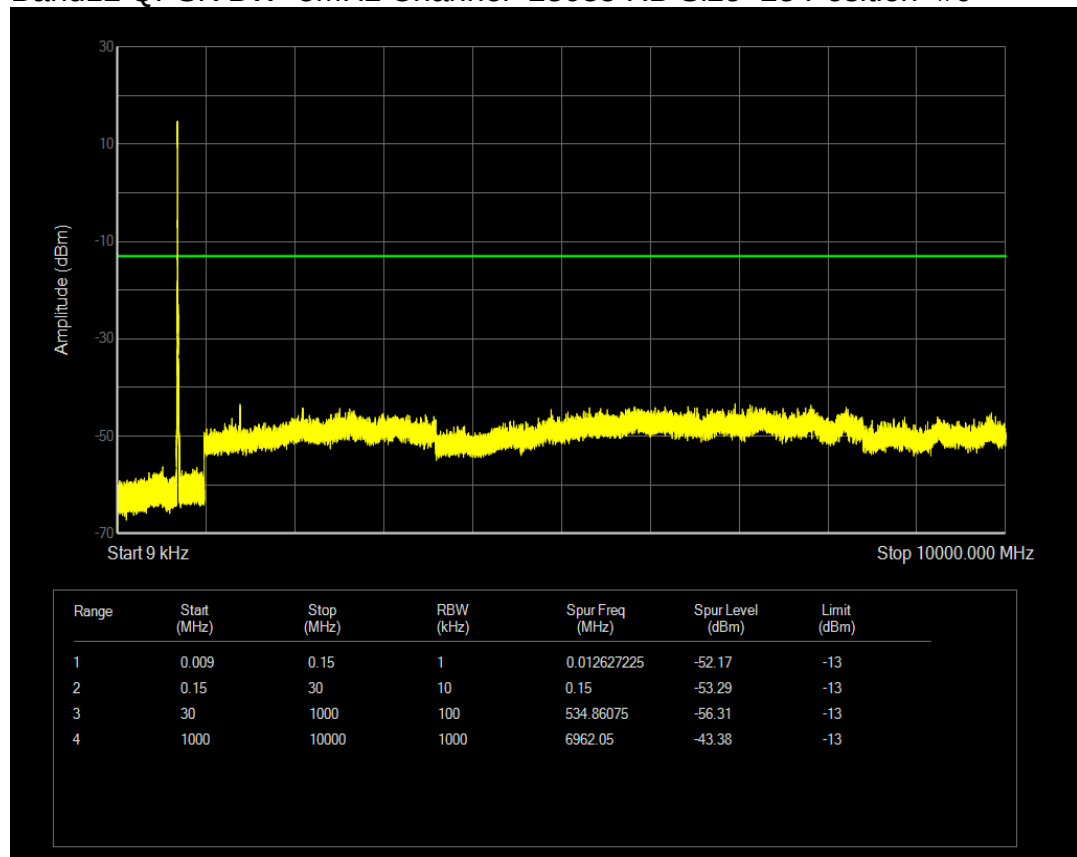


Band12 QAM16 BW=5MHz Channel=23035 RB Size=25 Position=#0

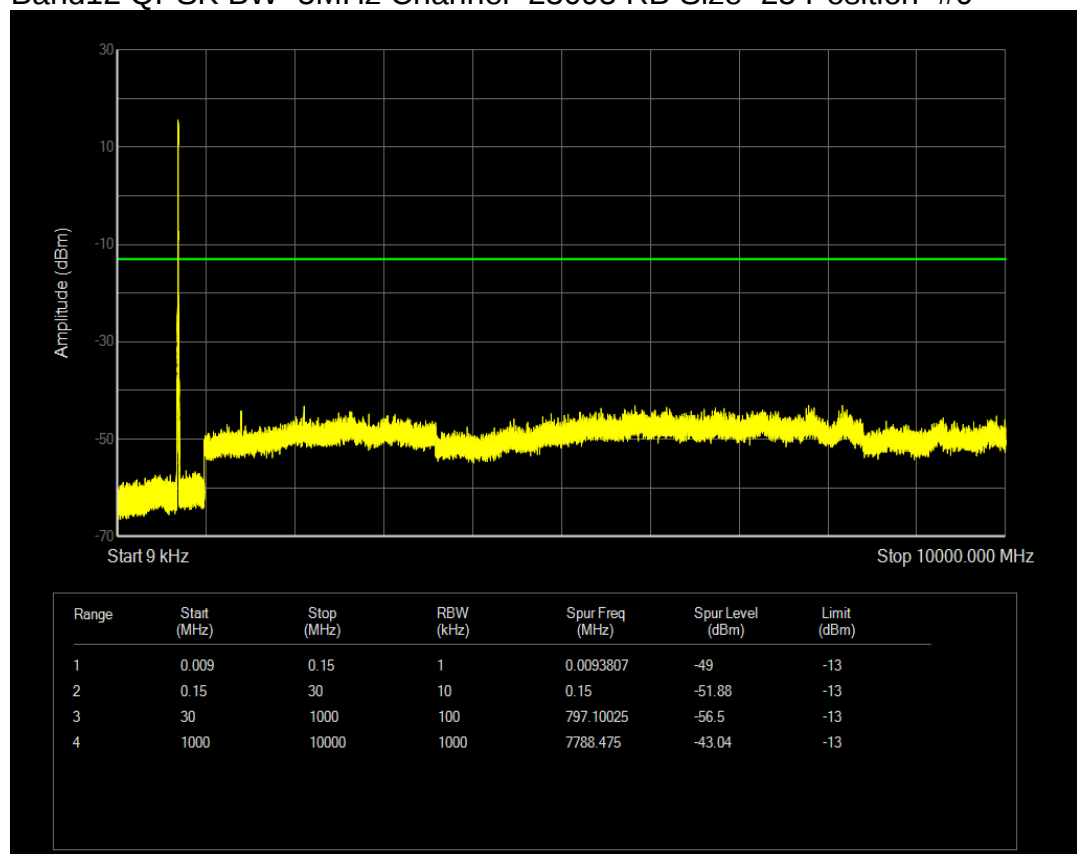




Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0

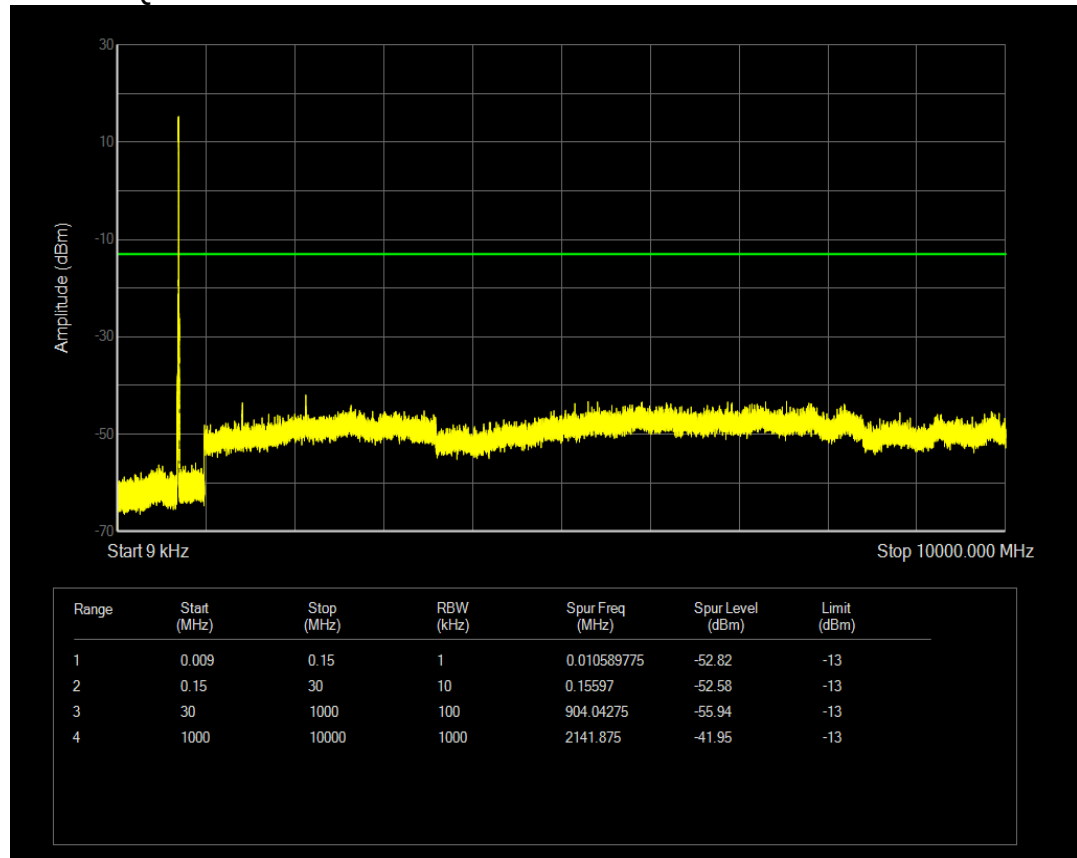


Band12 QPSK BW=5MHz Channel=23095 RB Size=25 Position=#0

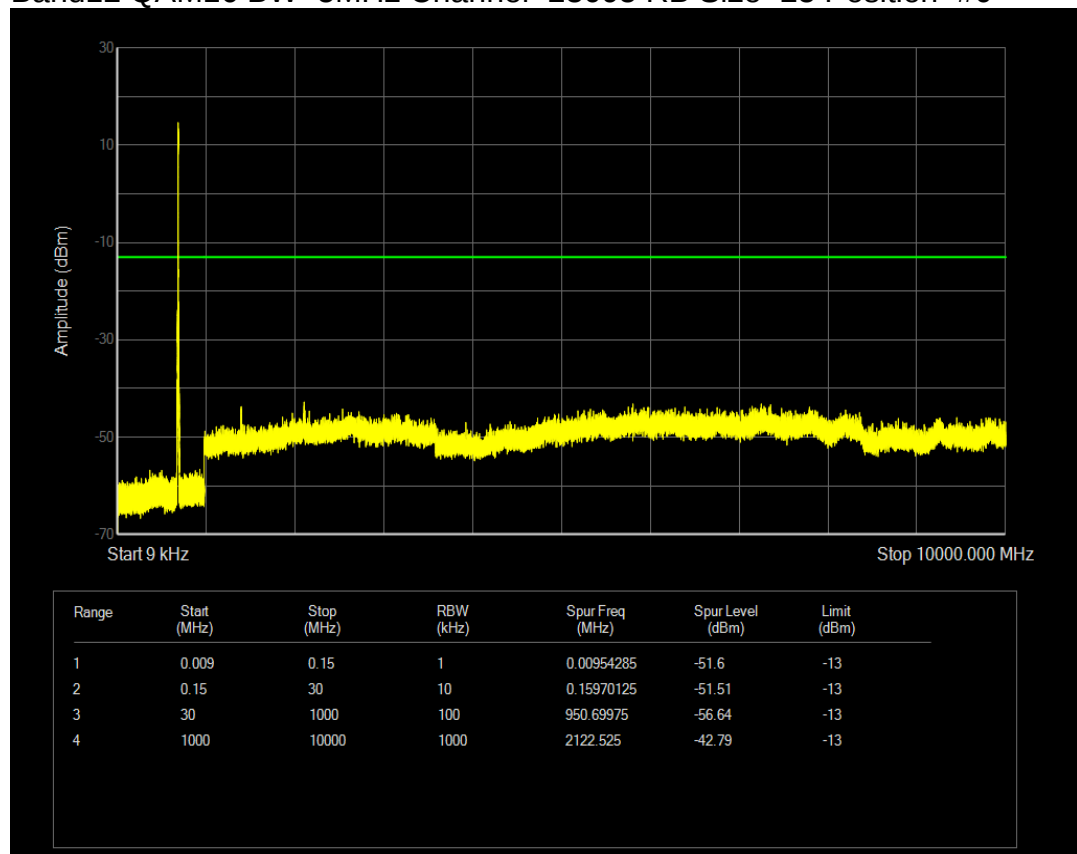




Band12 QPSK BW=5MHz Channel=23155 RB Size=25 Position=#0

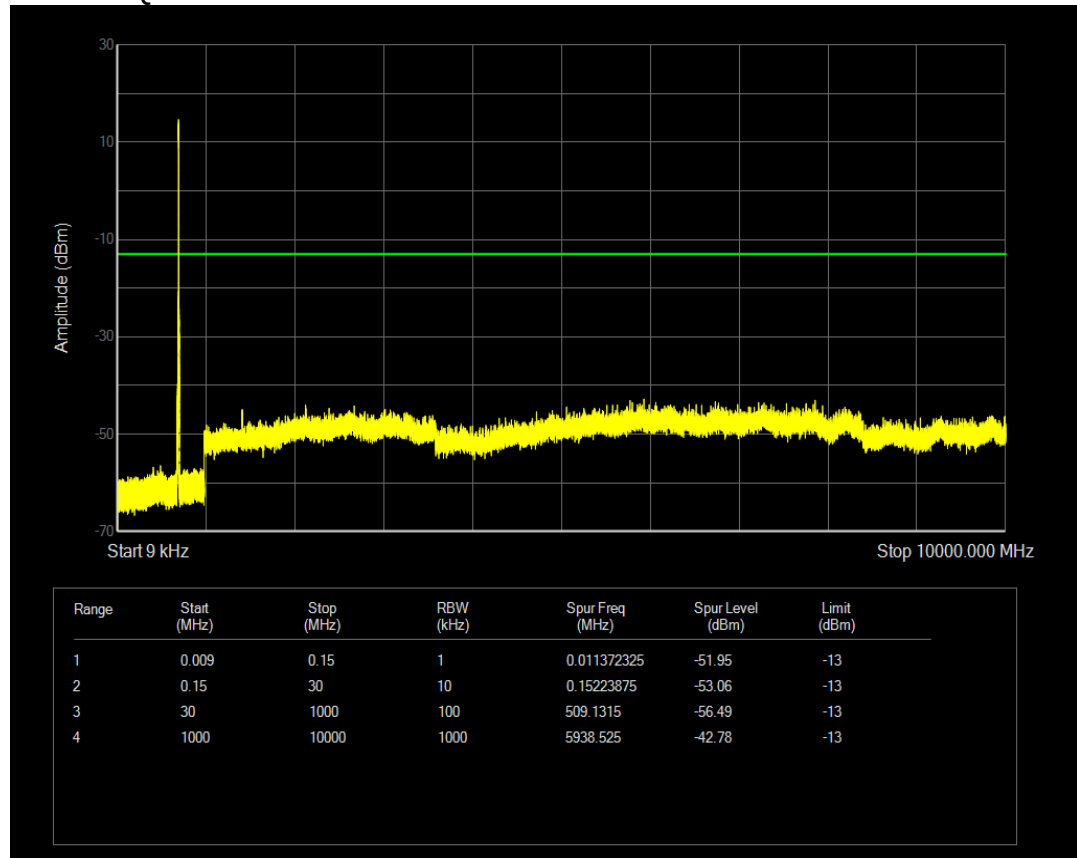


Band12 QAM16 BW=5MHz Channel=23095 RB Size=25 Position=#0

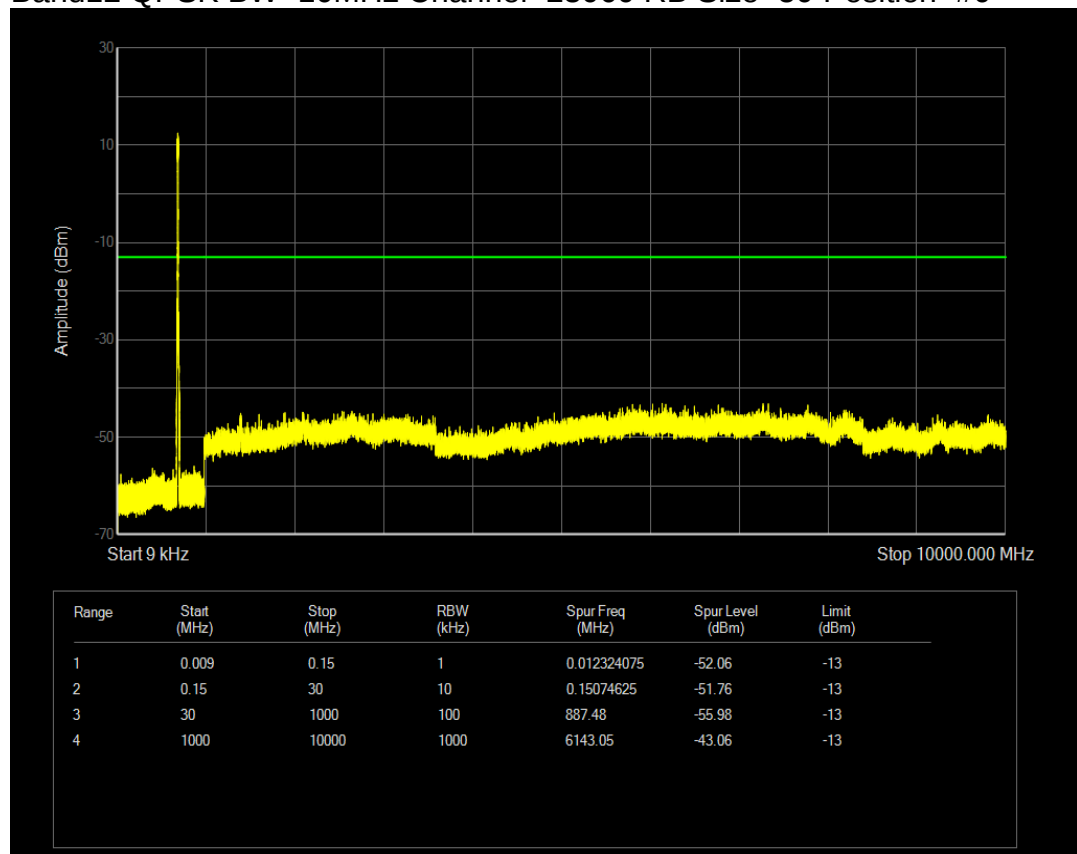




Band12 QAM16 BW=5MHz Channel=23155 RB Size=25 Position=#0

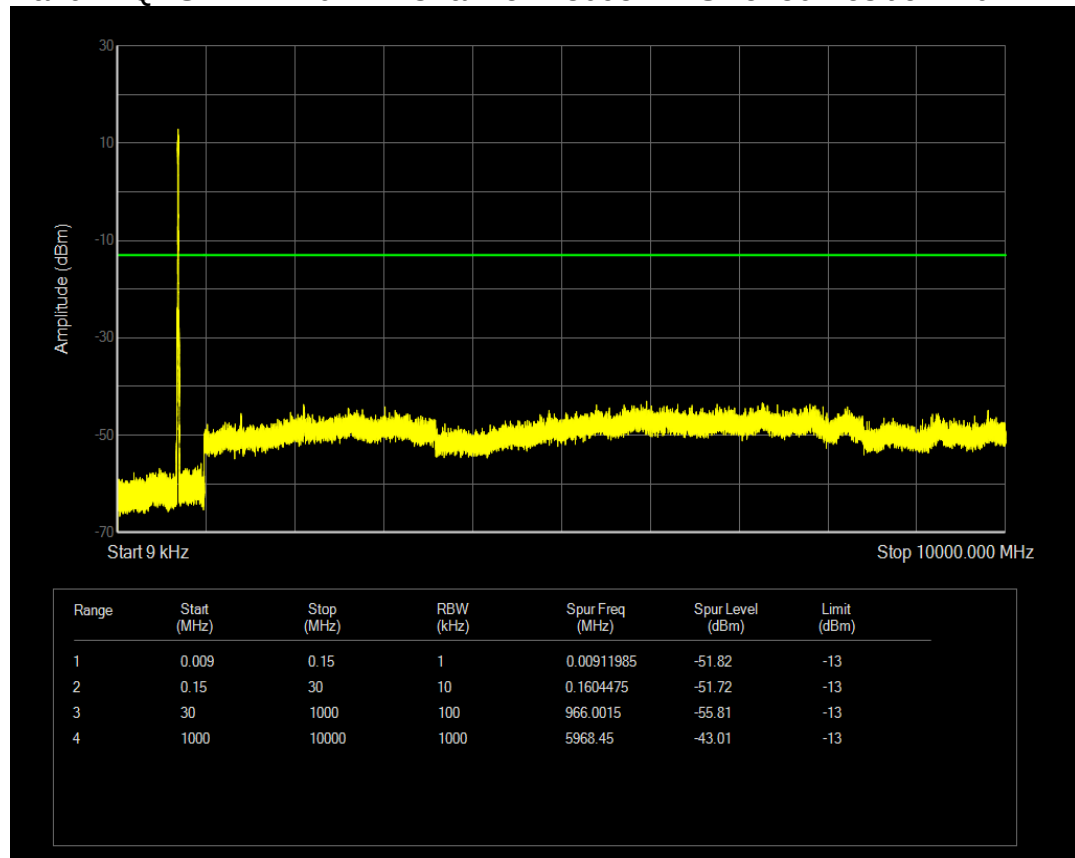


Band12 QPSK BW=10MHz Channel=23060 RB Size=50 Position=#0

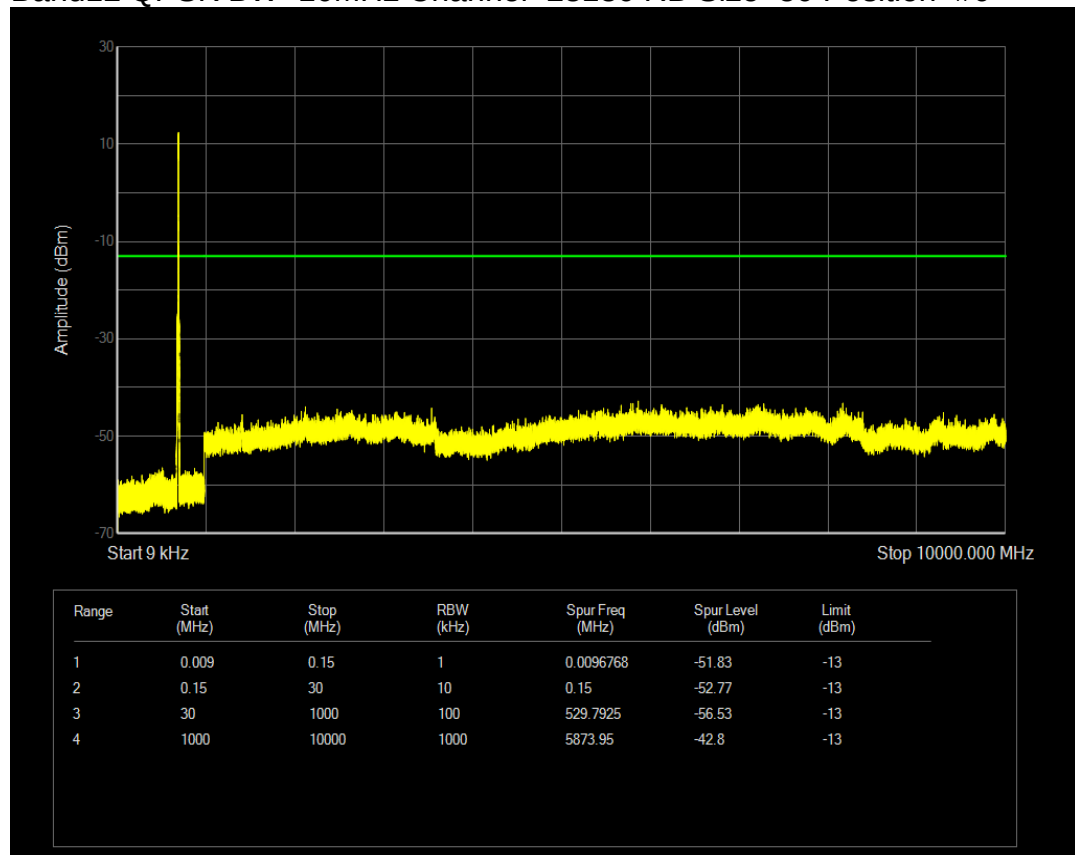




Band12 QPSK BW=10MHz Channel=23095 RB Size=50 Position=#0



Band12 QPSK BW=10MHz Channel=23130 RB Size=50 Position=#0



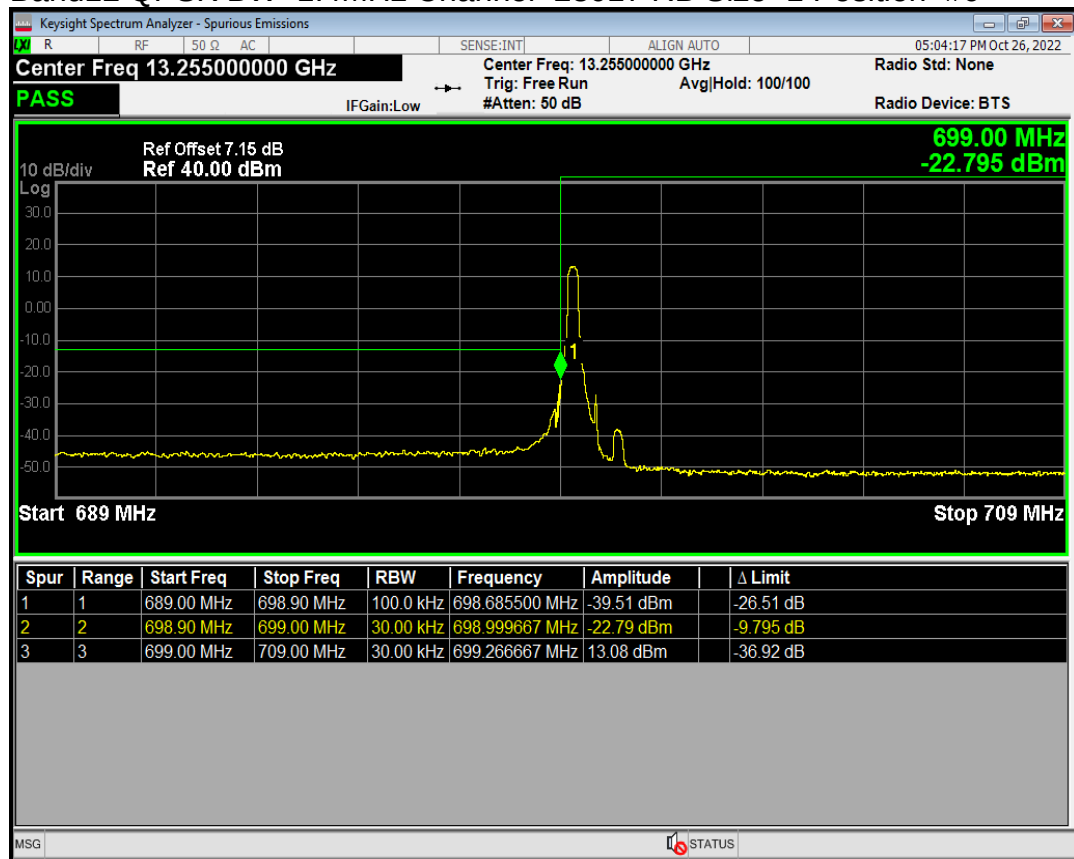


1.3. Conducted Out of Band Emissions

1.3.1. Test Result

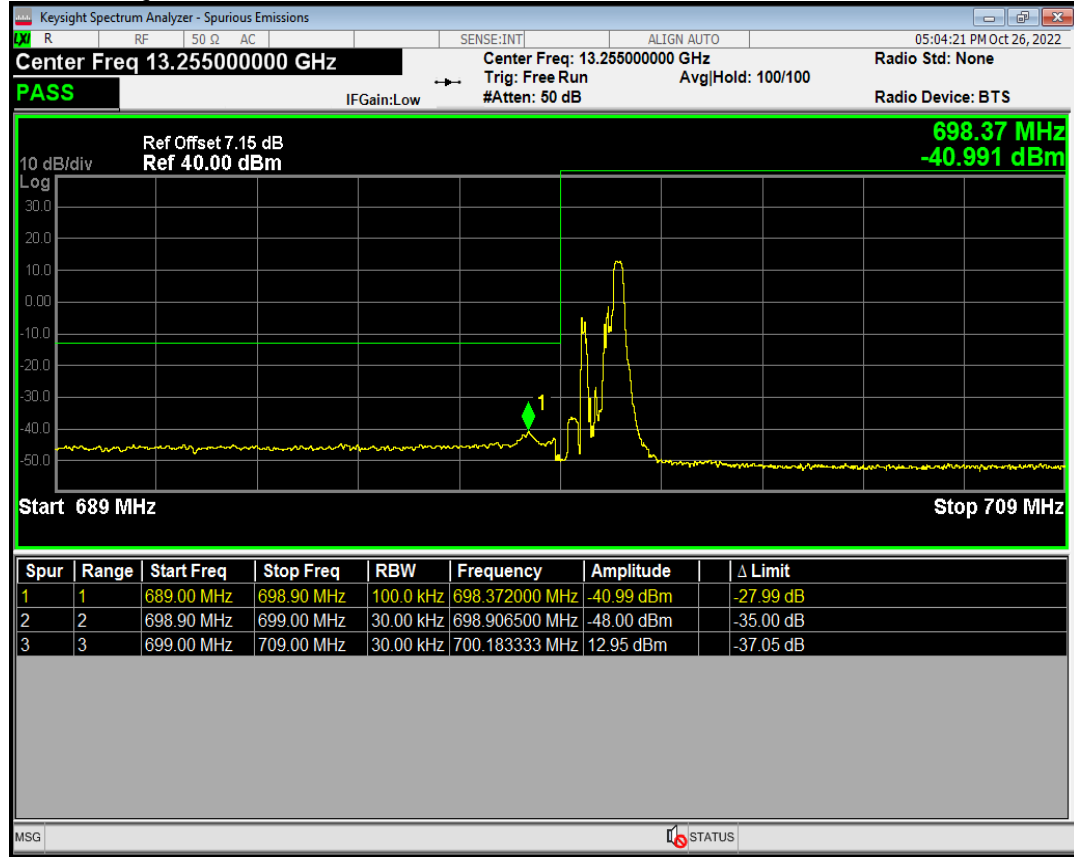
The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

Band12 QPSK BW=1.4MHz Channel=23017 RB Size=1 Position=#0

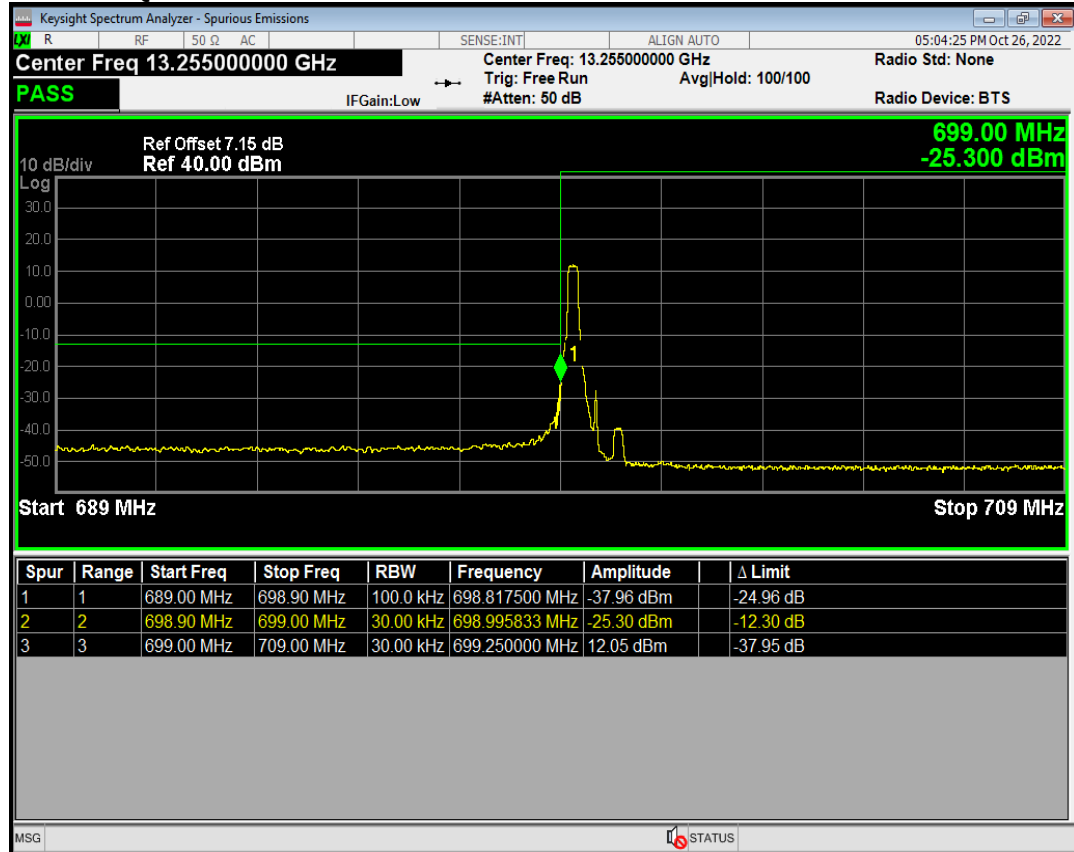




Band12 QPSK BW=1.4MHz Channel=23017 RB Size=1 Position=#Max

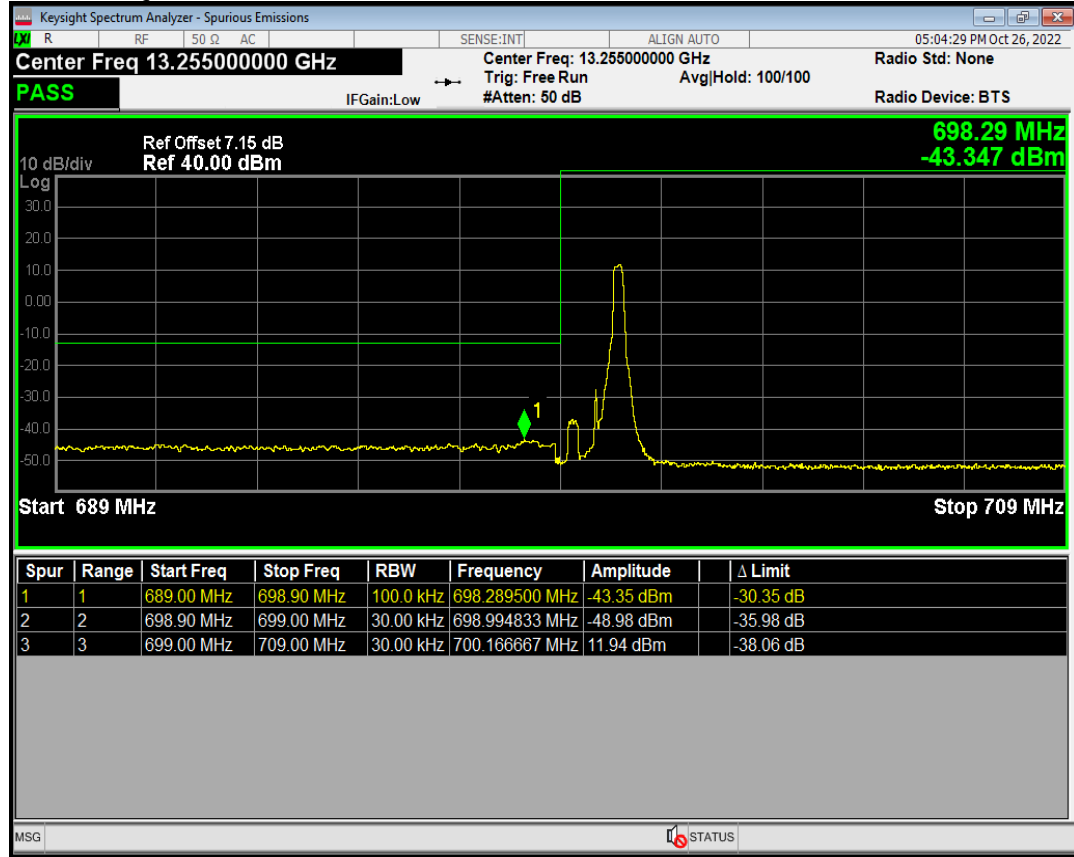


Band12 QAM16 BW=1.4MHz Channel=23017 RB Size=1 Position=#0

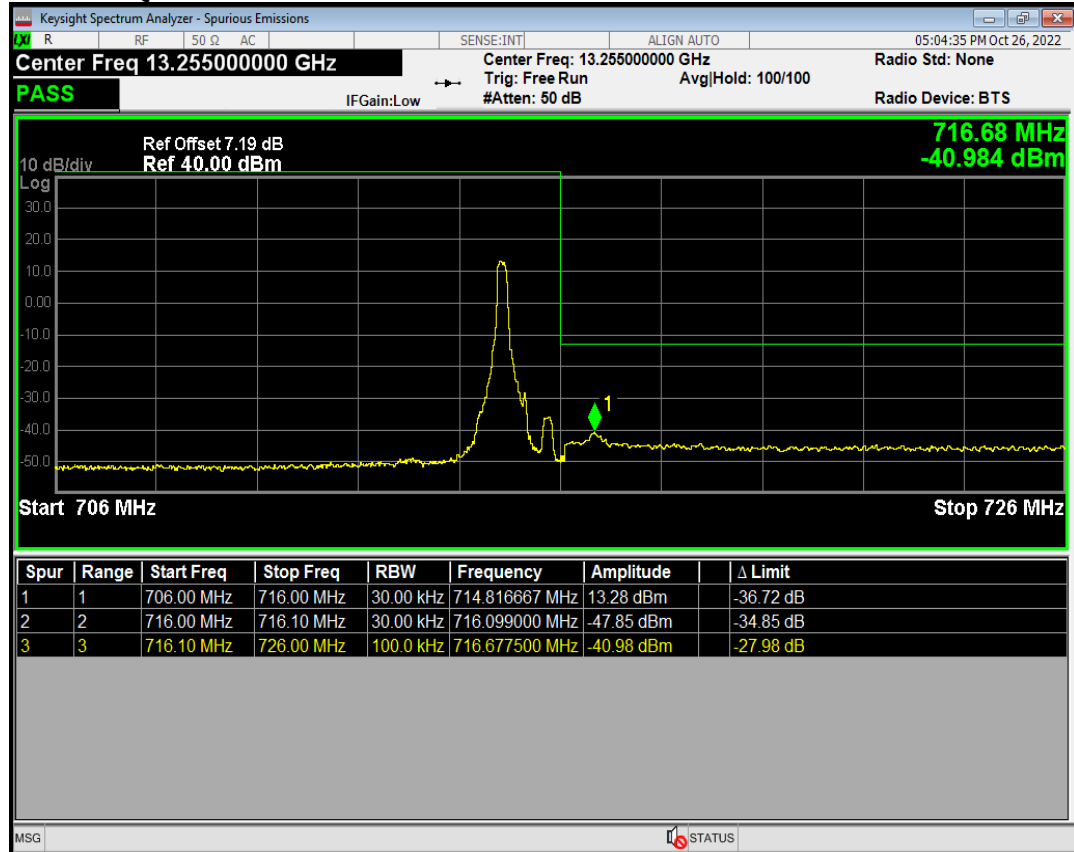




Band12 QAM16 BW=1.4MHz Channel=23017 RB Size=1 Position=#Max

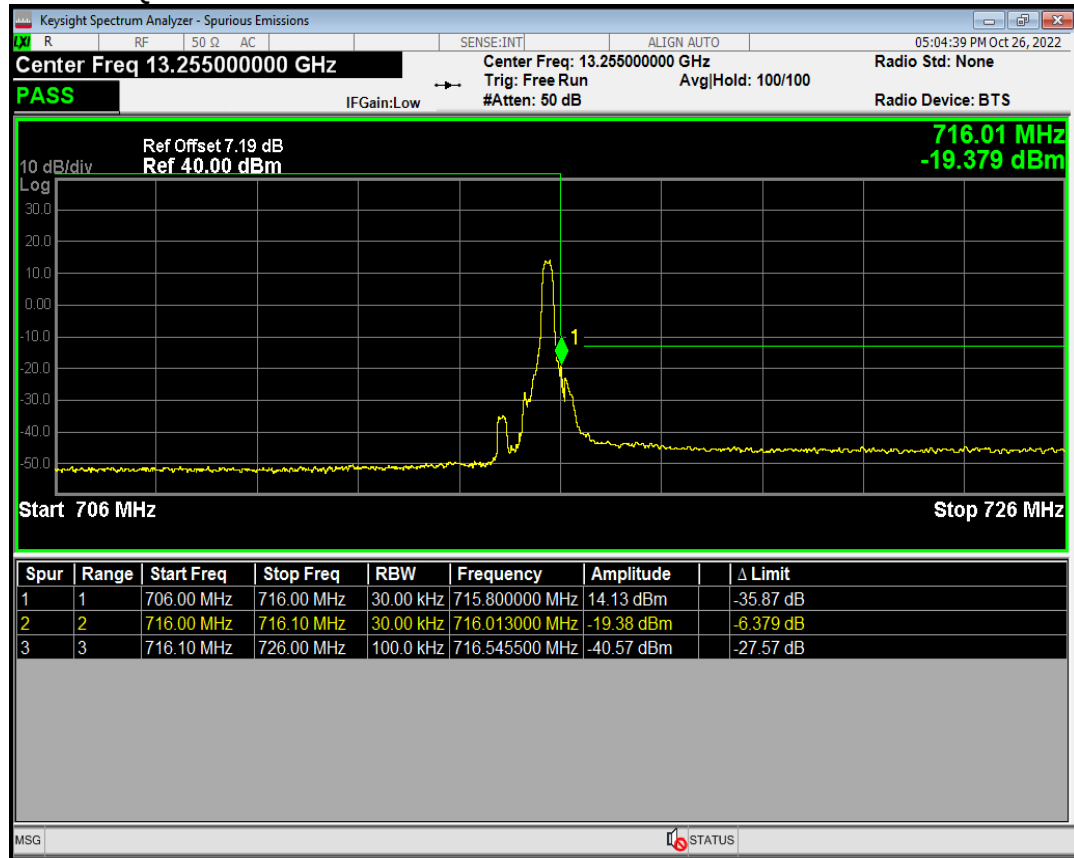


Band12 QPSK BW=1.4MHz Channel=23173 RB Size=1 Position=#0

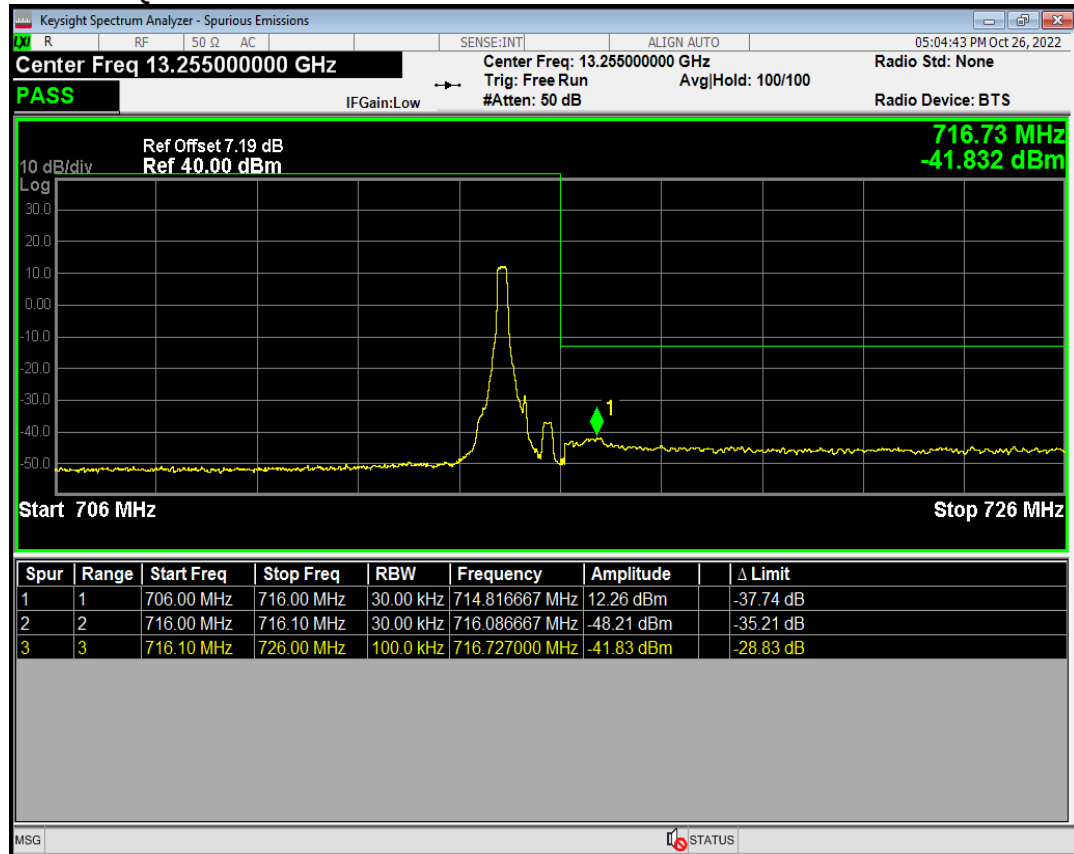




Band12 QPSK BW=1.4MHz Channel=23173 RB Size=1 Position=#Max

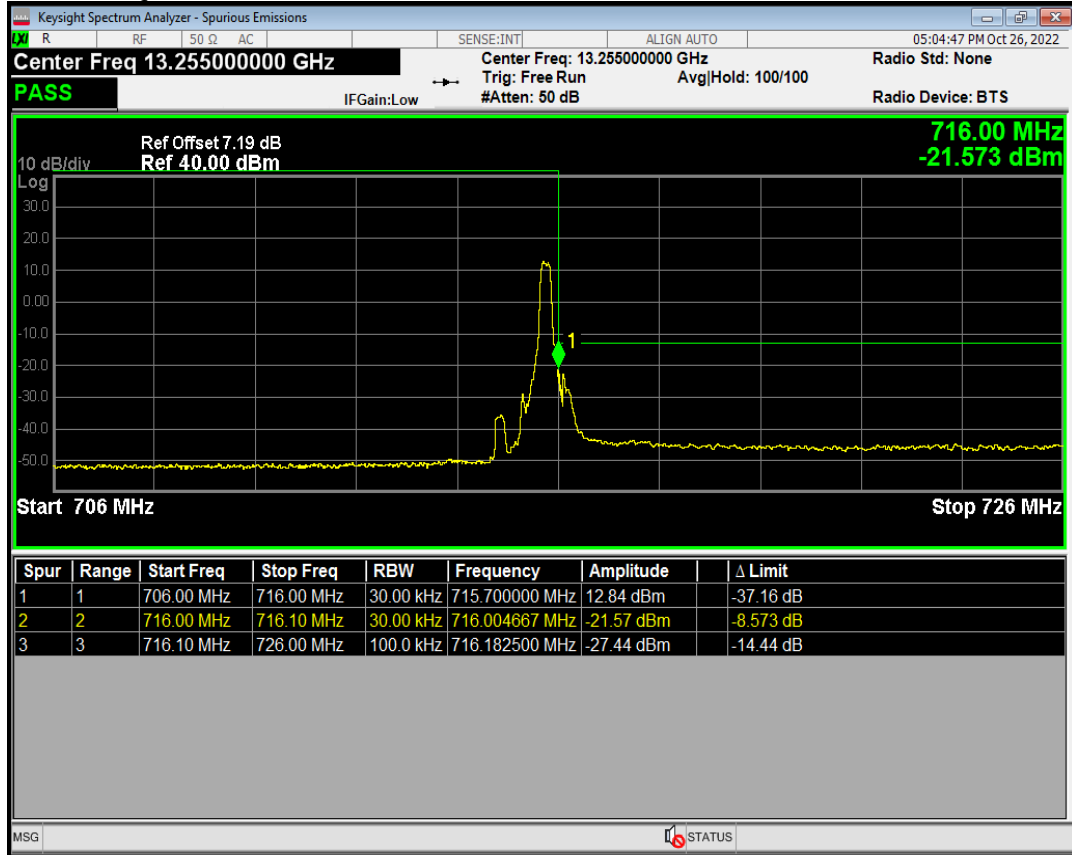


Band12 QAM16 BW=1.4MHz Channel=23173 RB Size=1 Position=#0

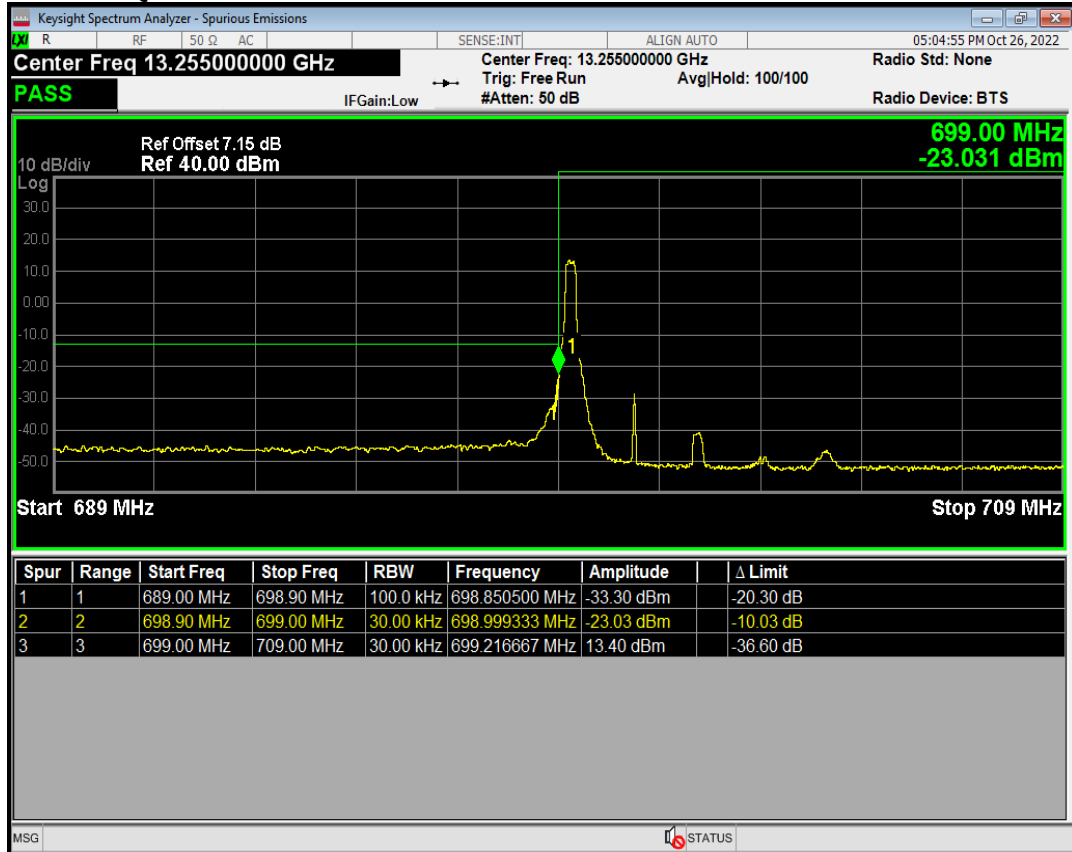




Band12 QAM16 BW=1.4MHz Channel=23173 RB Size=1 Position=#Max

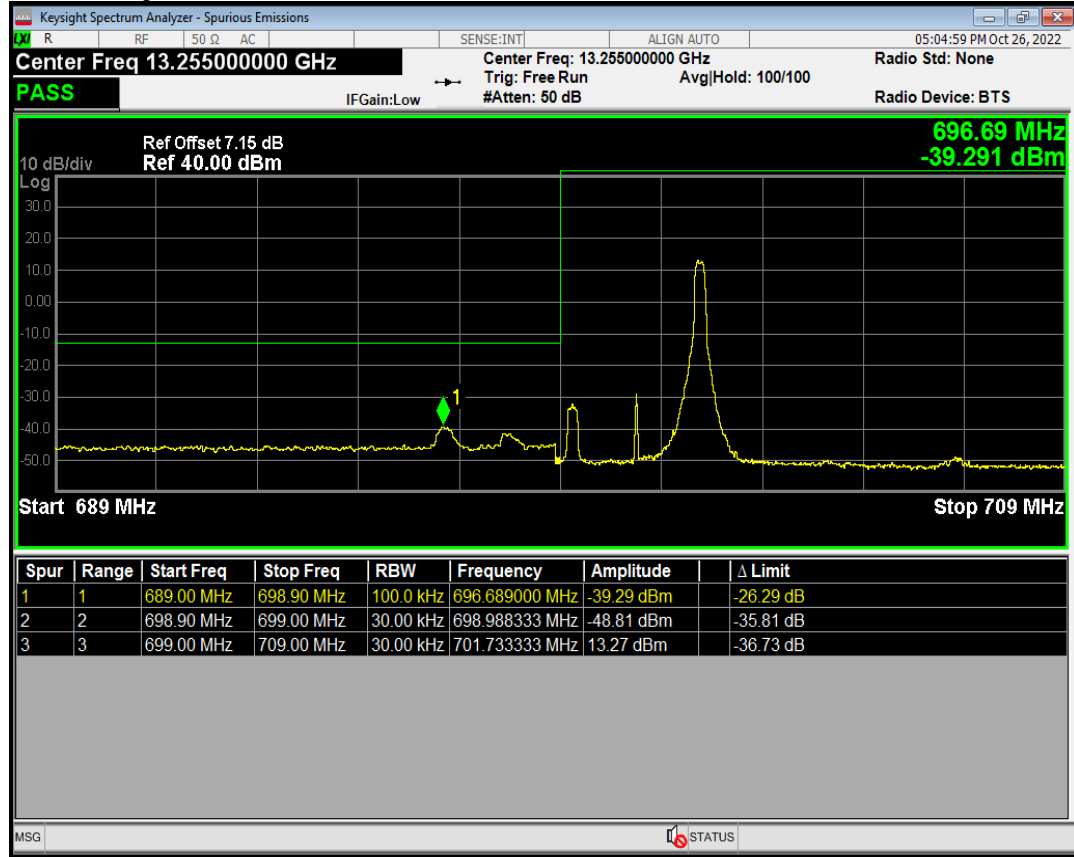


Band12 QPSK BW=3MHz Channel=23025 RB Size=1 Position=#0

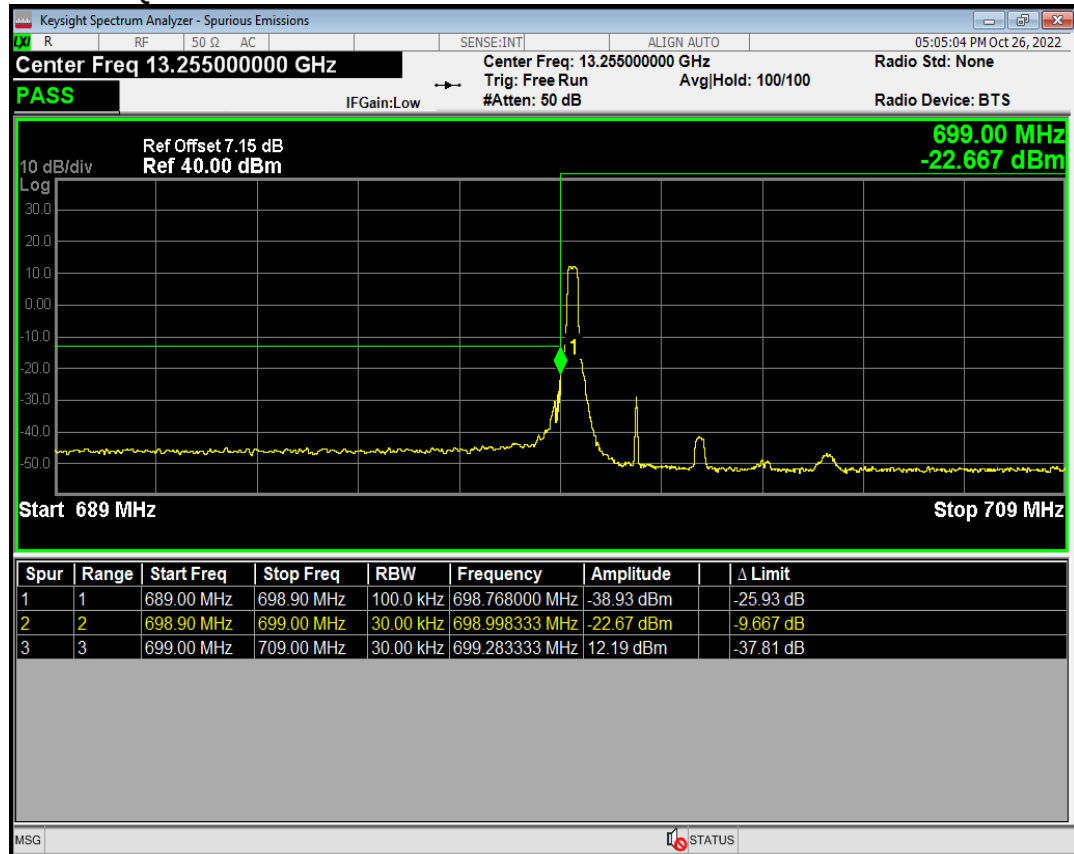




Band12 QPSK BW=3MHz Channel=23025 RB Size=1 Position=#Max

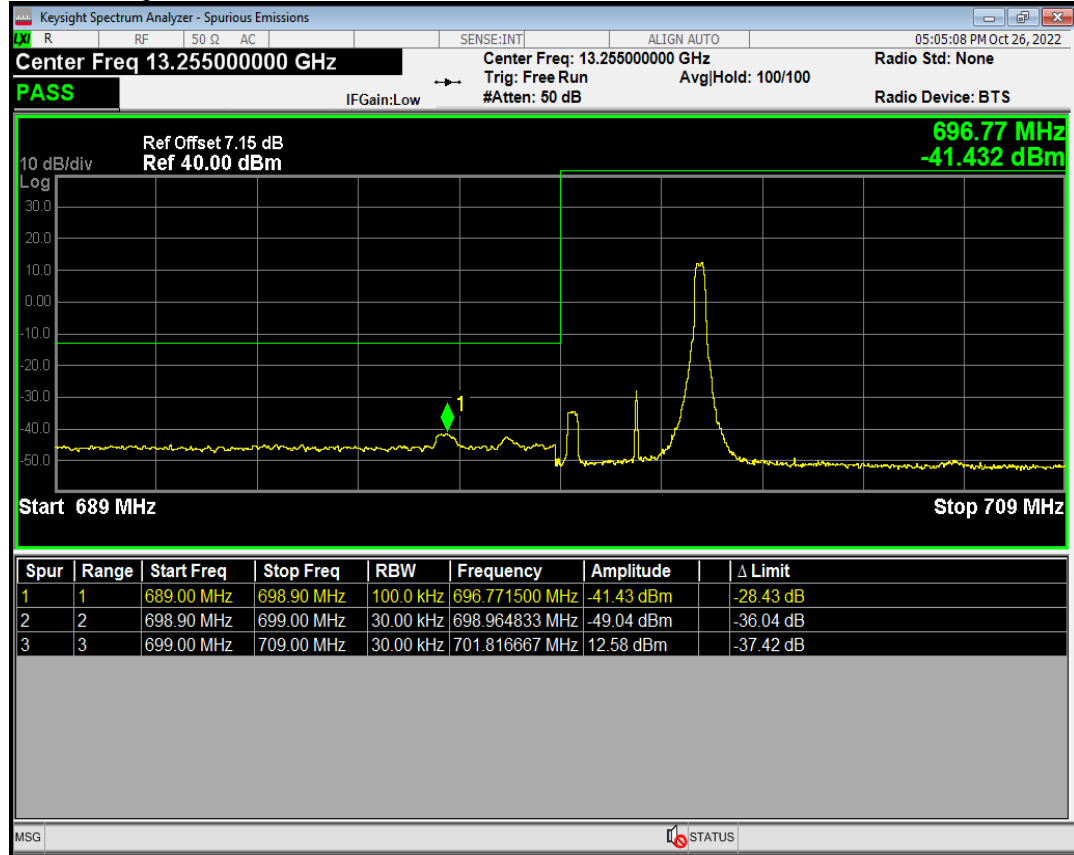


Band12 QAM16 BW=3MHz Channel=23025 RB Size=1 Position=#0

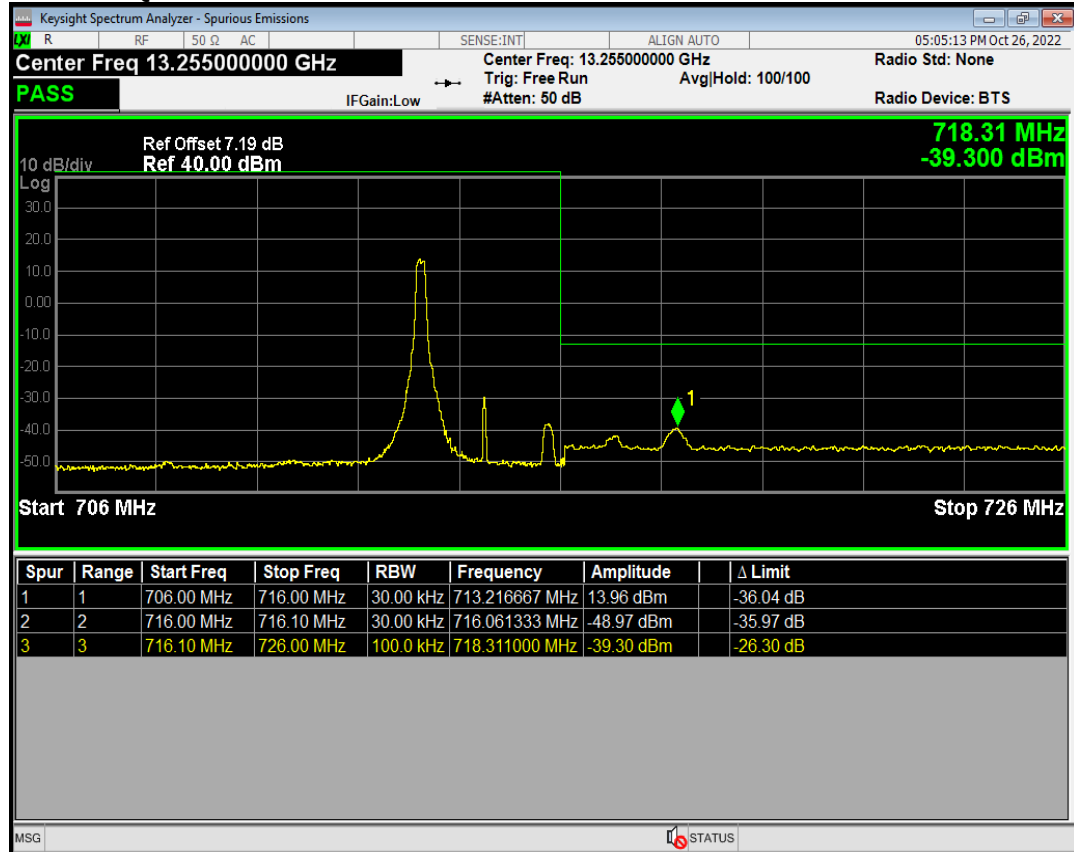




Band12 QAM16 BW=3MHz Channel=23025 RB Size=1 Position=#Max

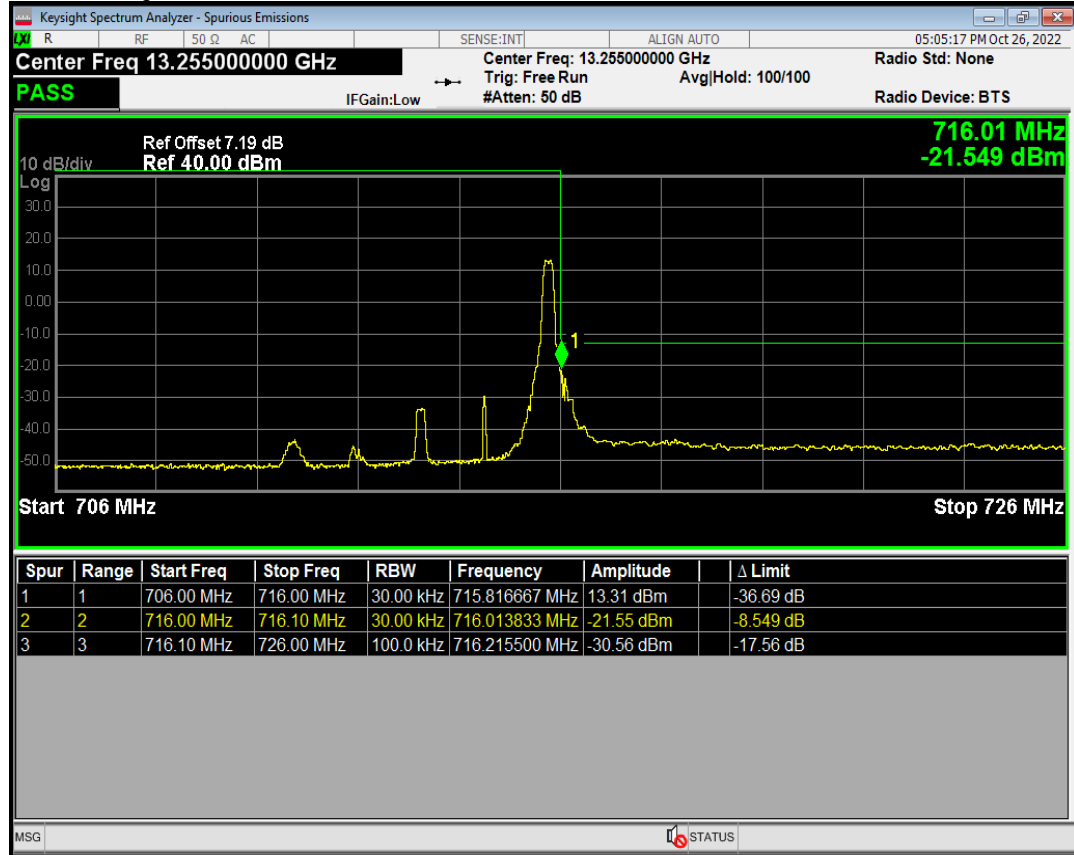


Band12 QPSK BW=3MHz Channel=23165 RB Size=1 Position=#0

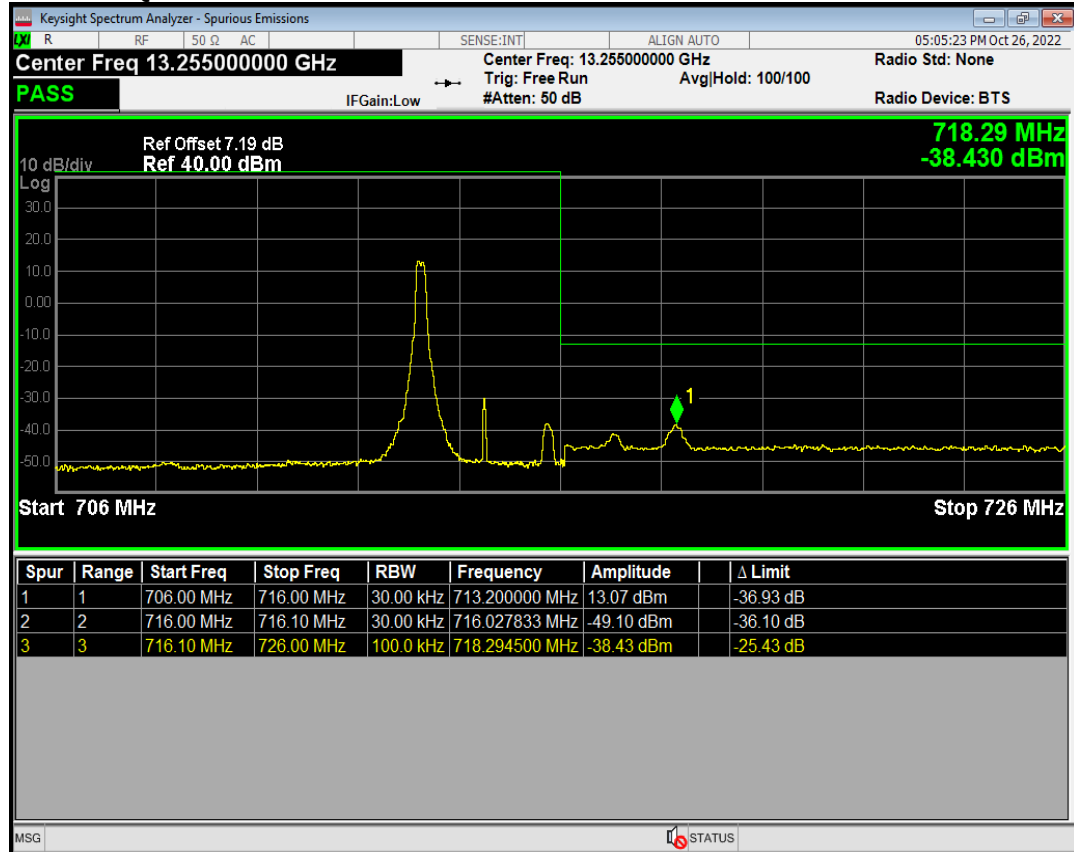




Band12 QPSK BW=3MHz Channel=23165 RB Size=1 Position=#Max

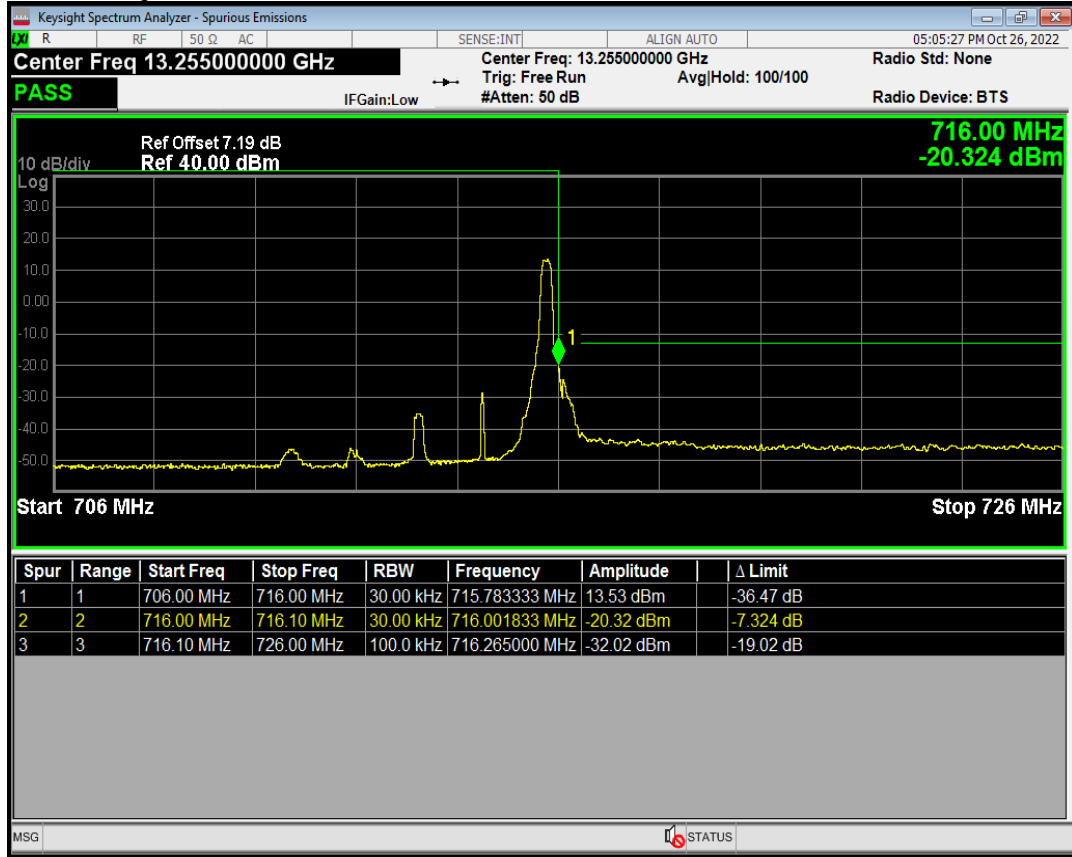


Band12 QAM16 BW=3MHz Channel=23165 RB Size=1 Position=#0

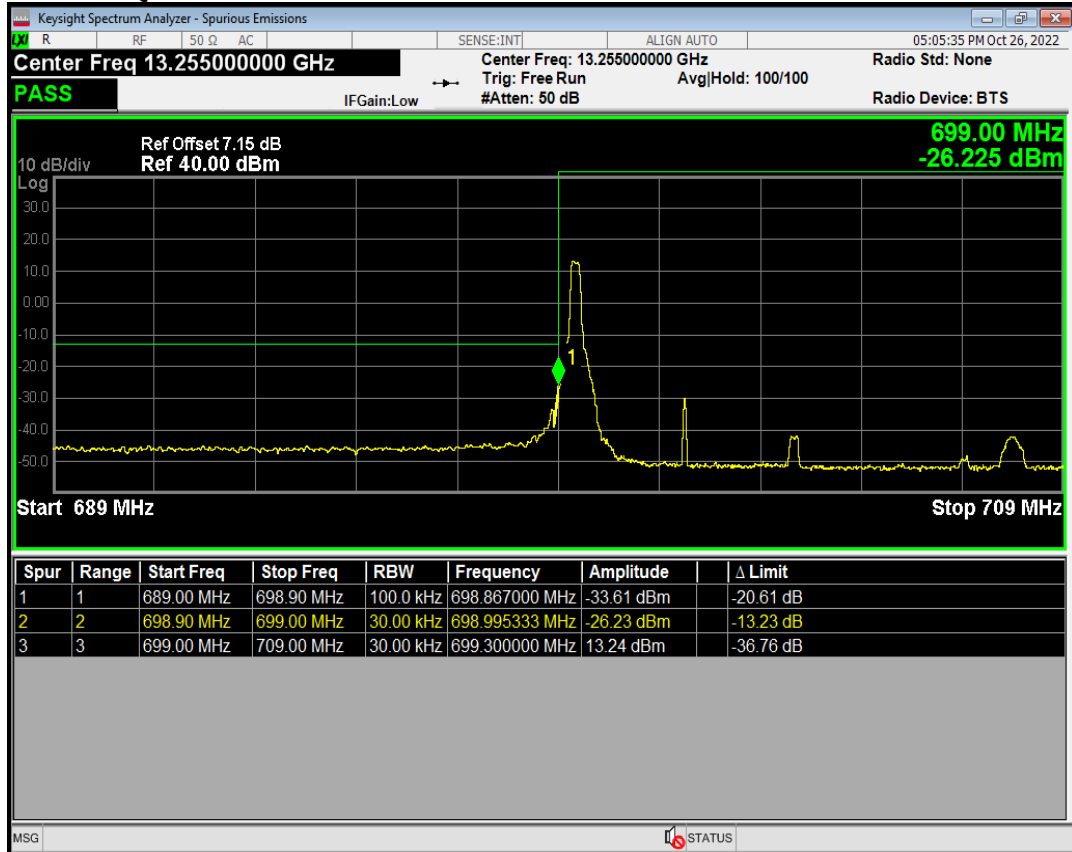




Band12 QAM16 BW=3MHz Channel=23165 RB Size=1 Position=#Max

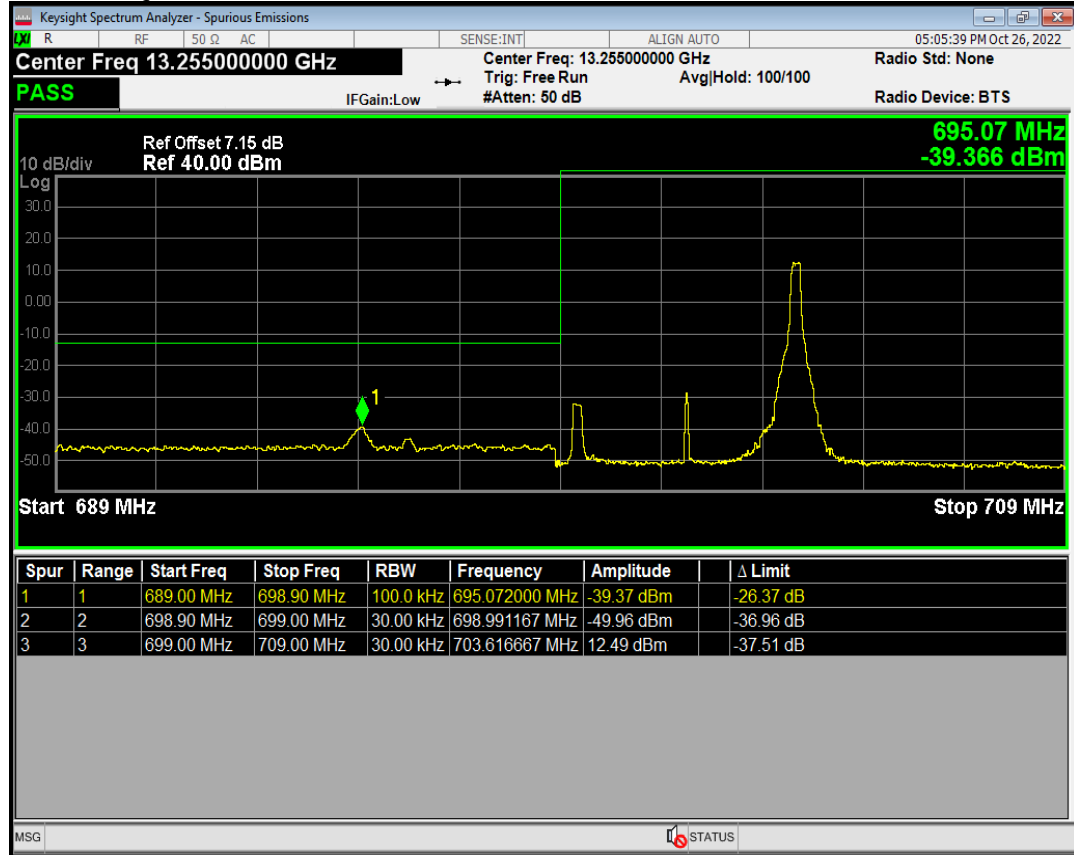


Band12 QPSK BW=5MHz Channel=23035 RB Size=1 Position=#0

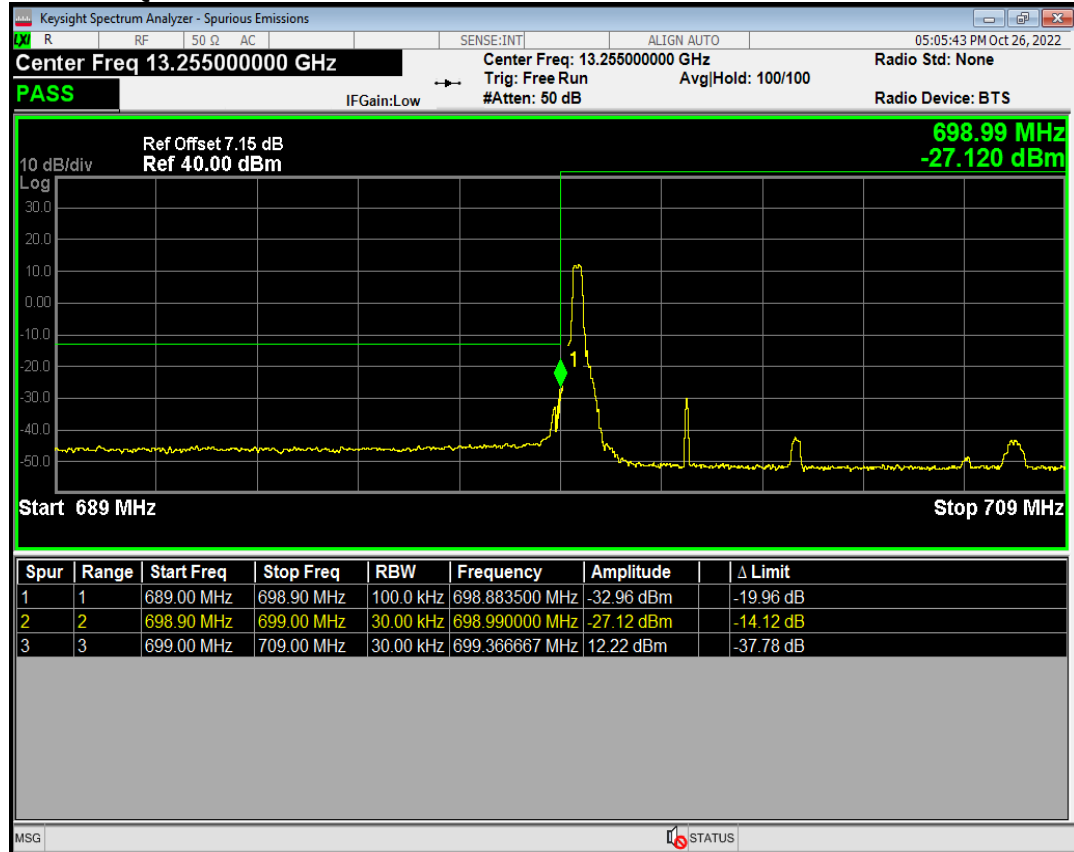




Band12 QPSK BW=5MHz Channel=23035 RB Size=1 Position=#Max

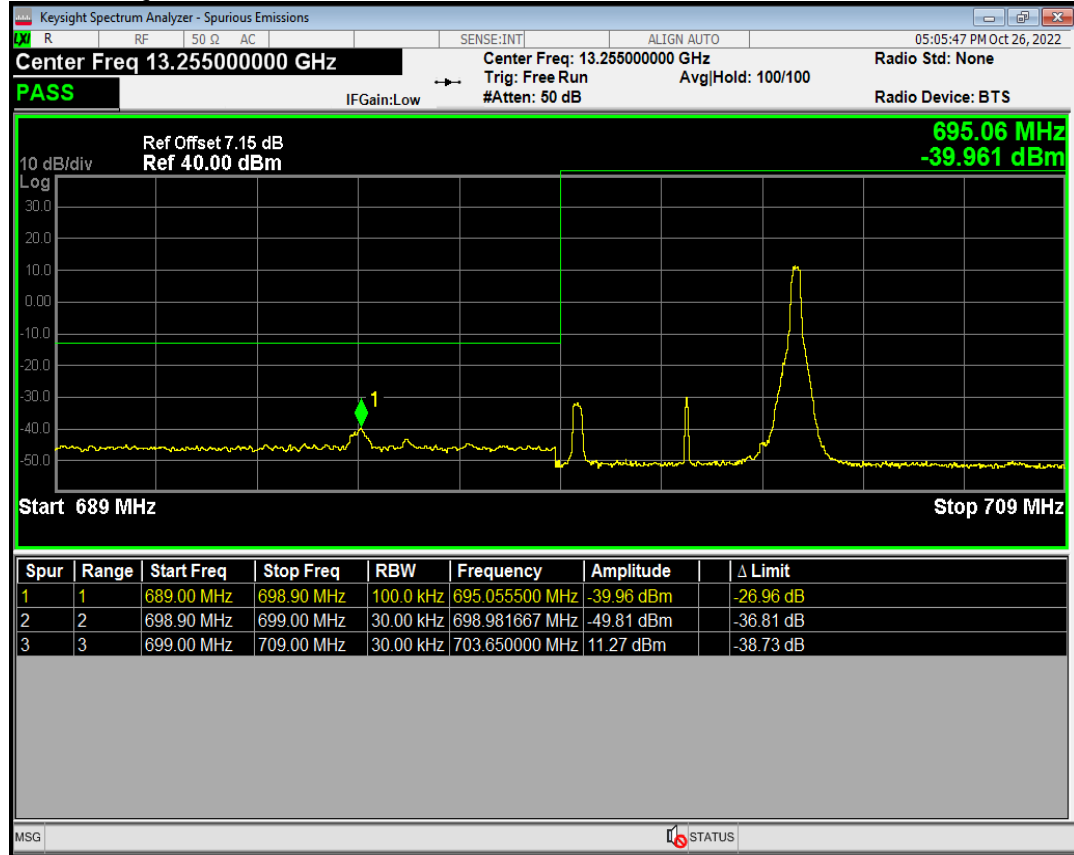


Band12 QAM16 BW=5MHz Channel=23035 RB Size=1 Position=#0

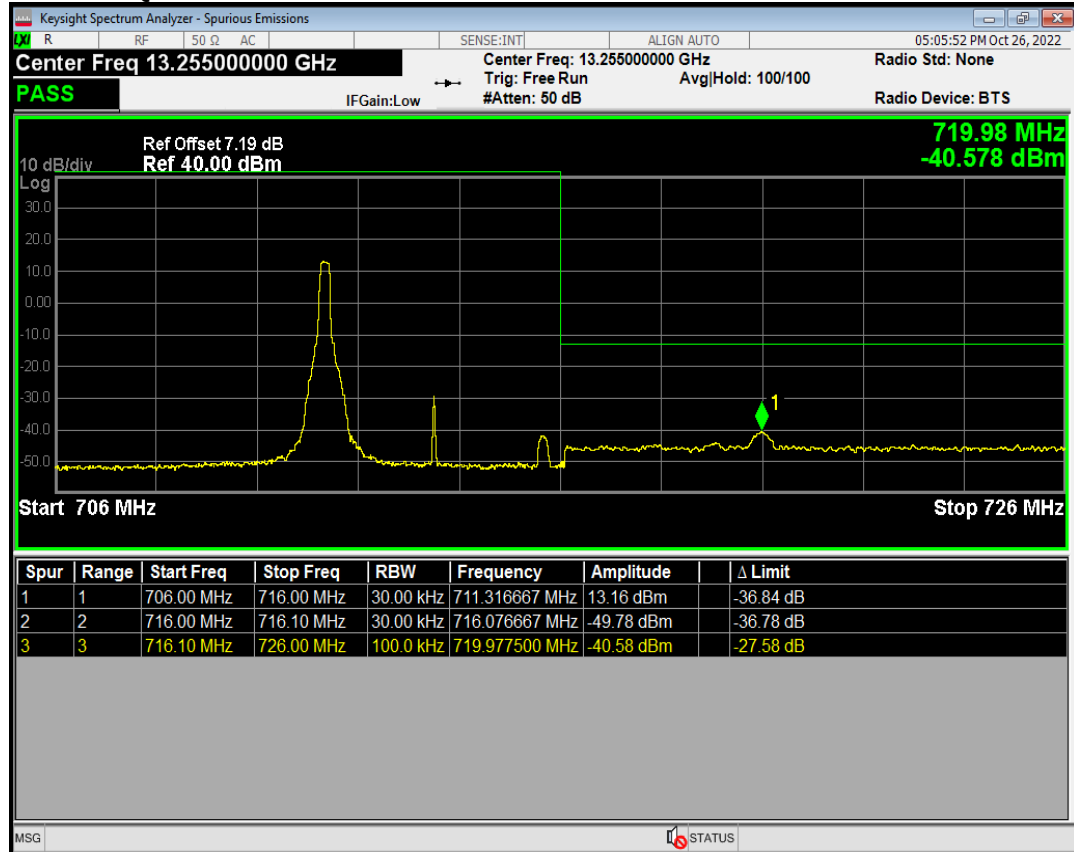




Band12 QAM16 BW=5MHz Channel=23035 RB Size=1 Position=#Max

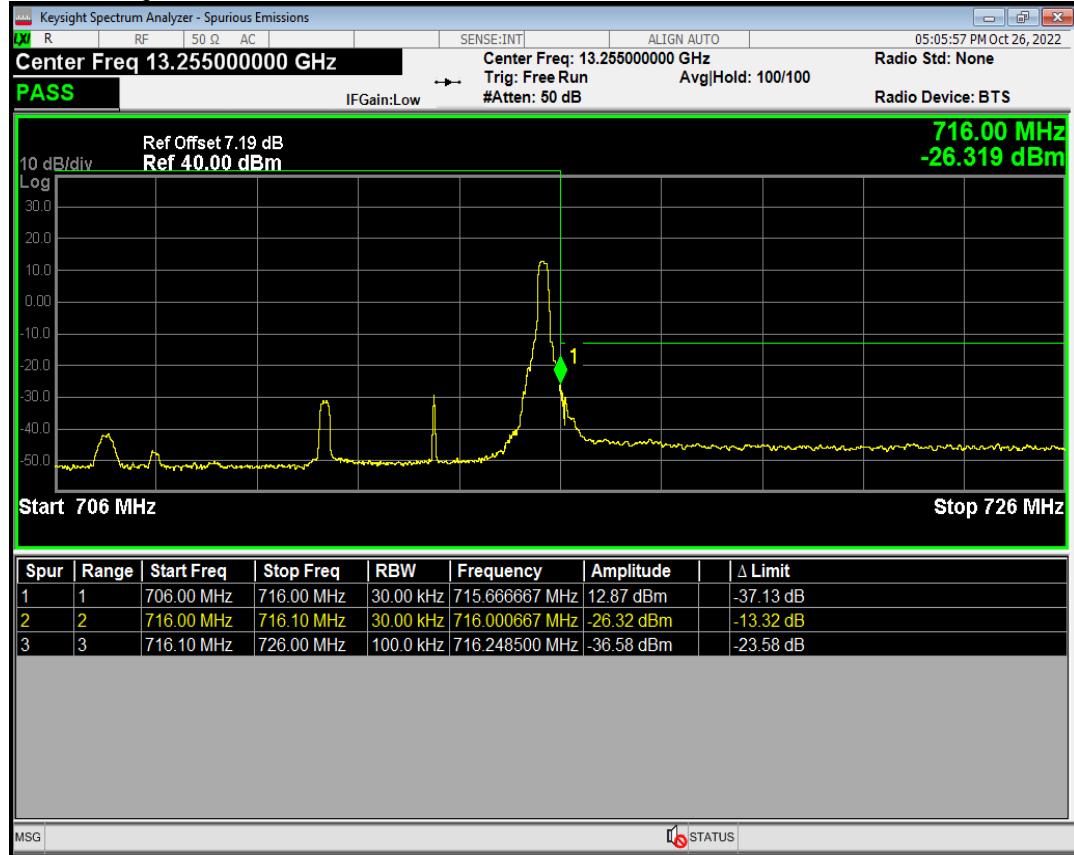


Band12 QPSK BW=5MHz Channel=23155 RB Size=1 Position=#0

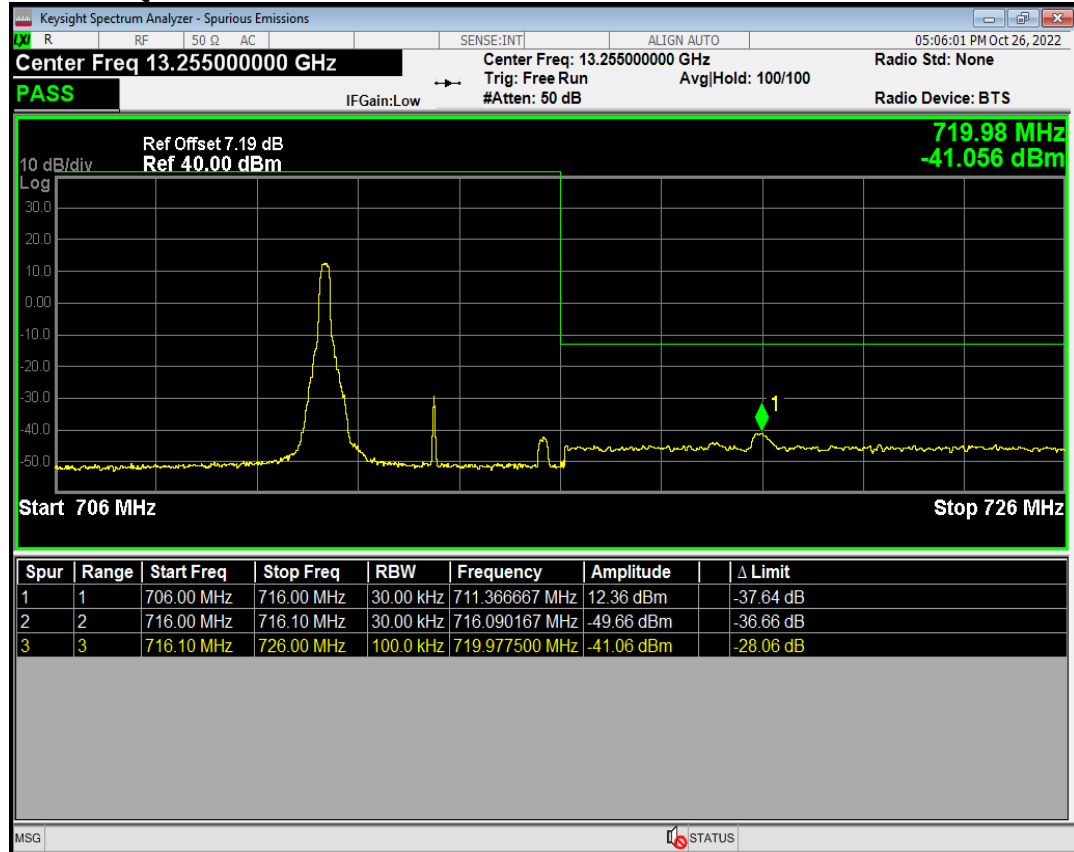




Band12 QPSK BW=5MHz Channel=23155 RB Size=1 Position=#Max

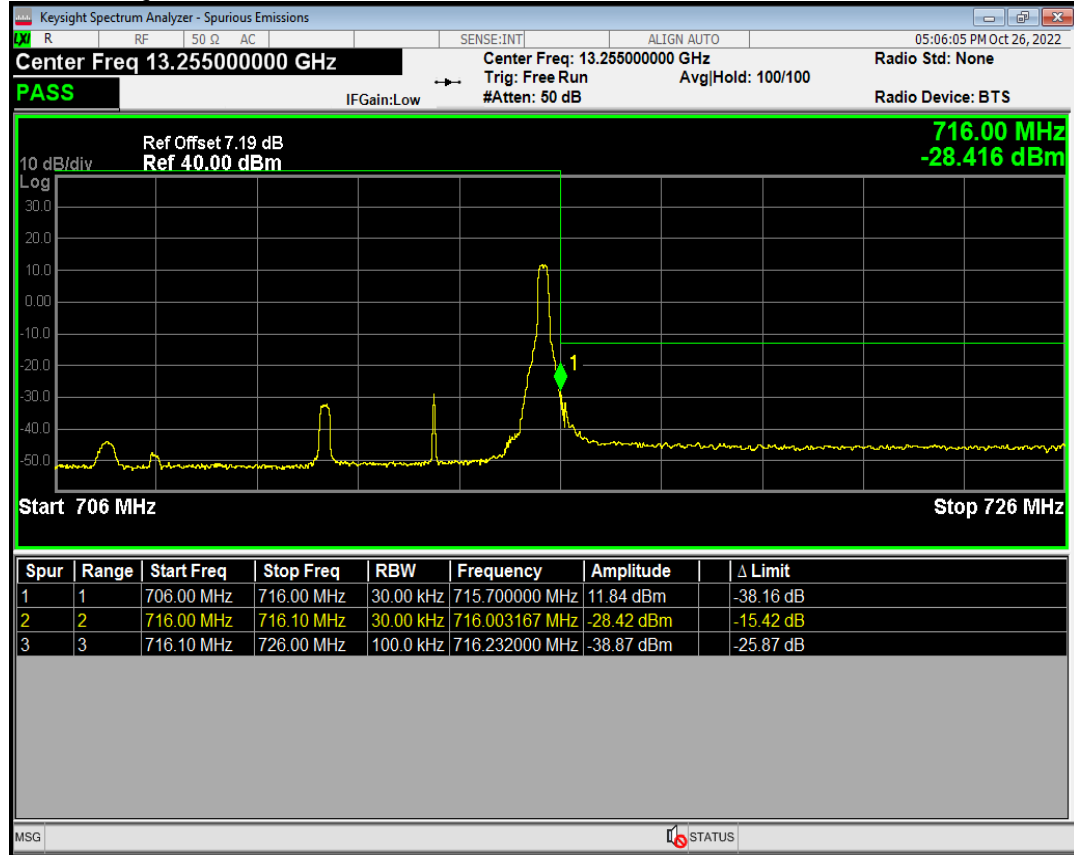


Band12 QAM16 BW=5MHz Channel=23155 RB Size=1 Position=#0

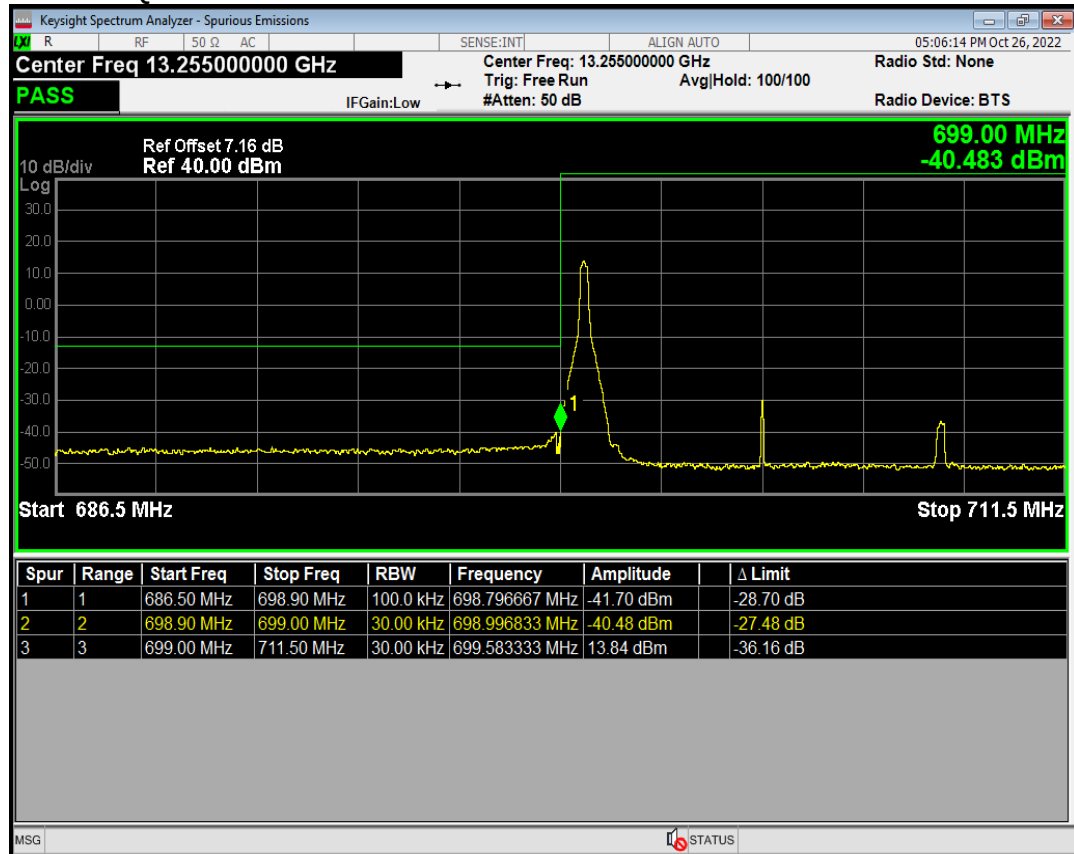




Band12 QAM16 BW=5MHz Channel=23155 RB Size=1 Position=#Max

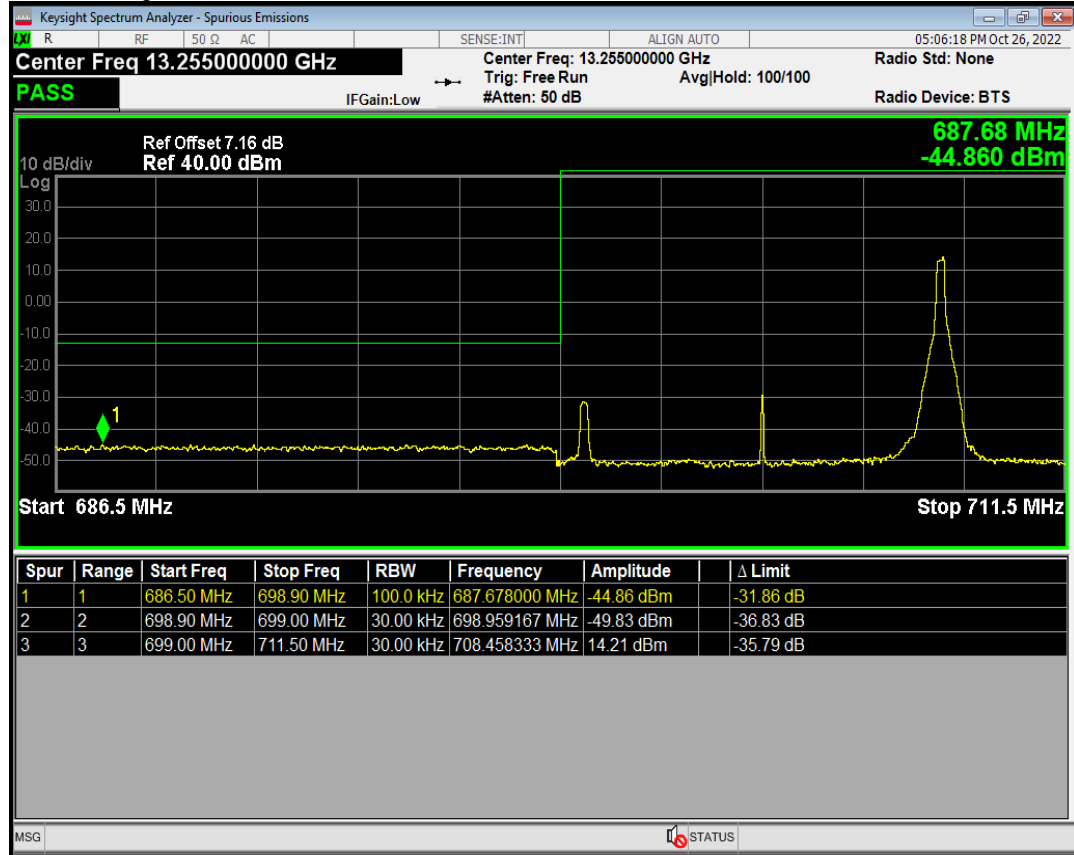


Band12 QPSK BW=10MHz Channel=23060 RB Size=1 Position=#0

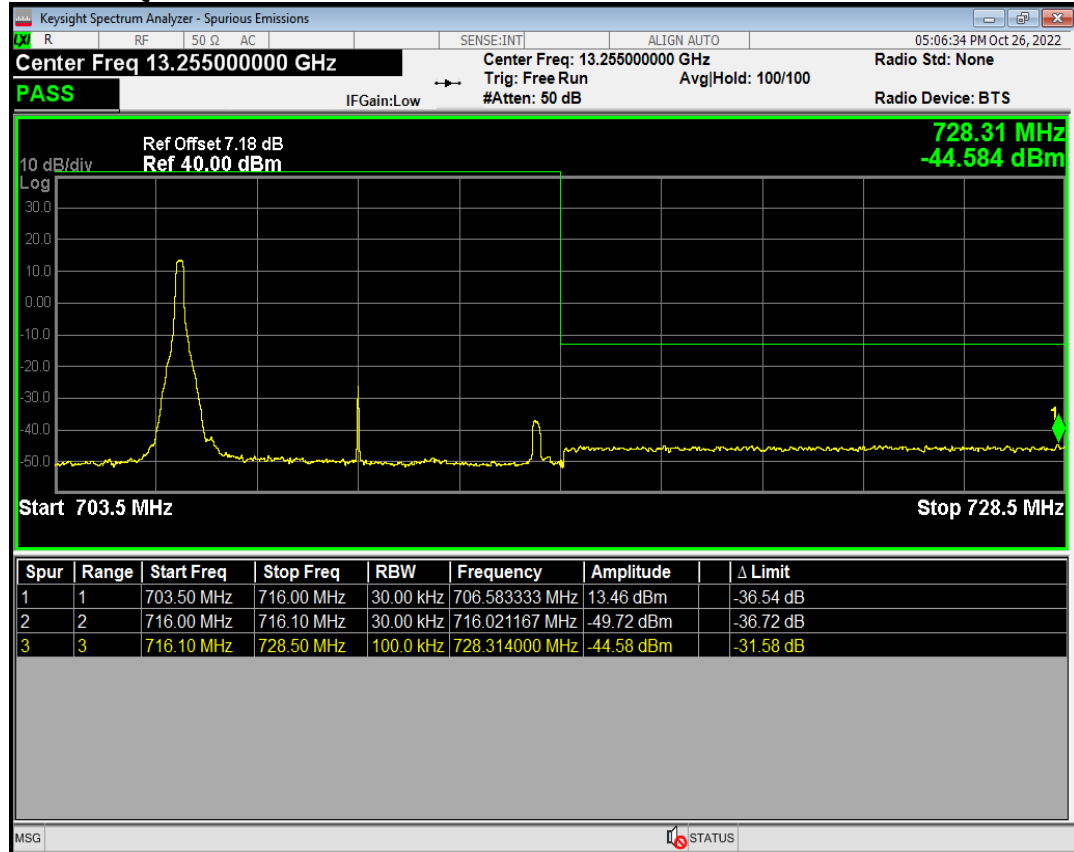




Band12 QPSK BW=10MHz Channel=23060 RB Size=1 Position=#Max

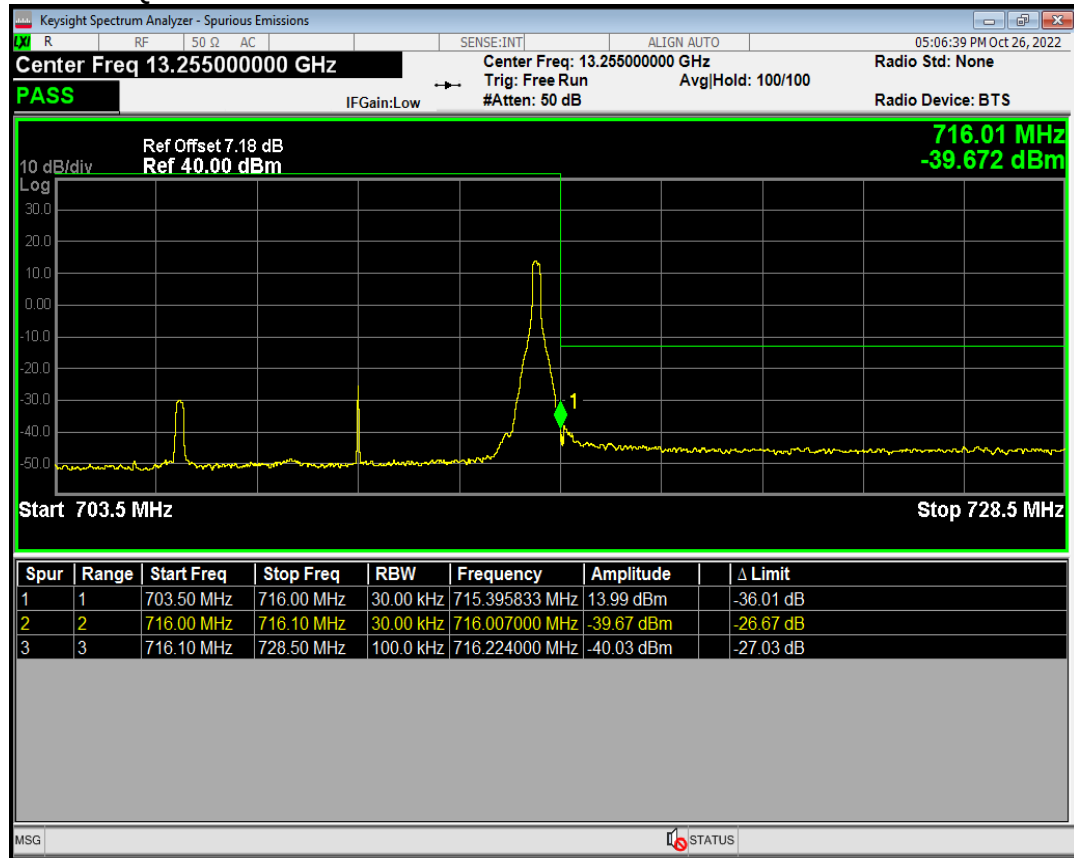


Band12 QPSK BW=10MHz Channel=23130 RB Size=1 Position=#0

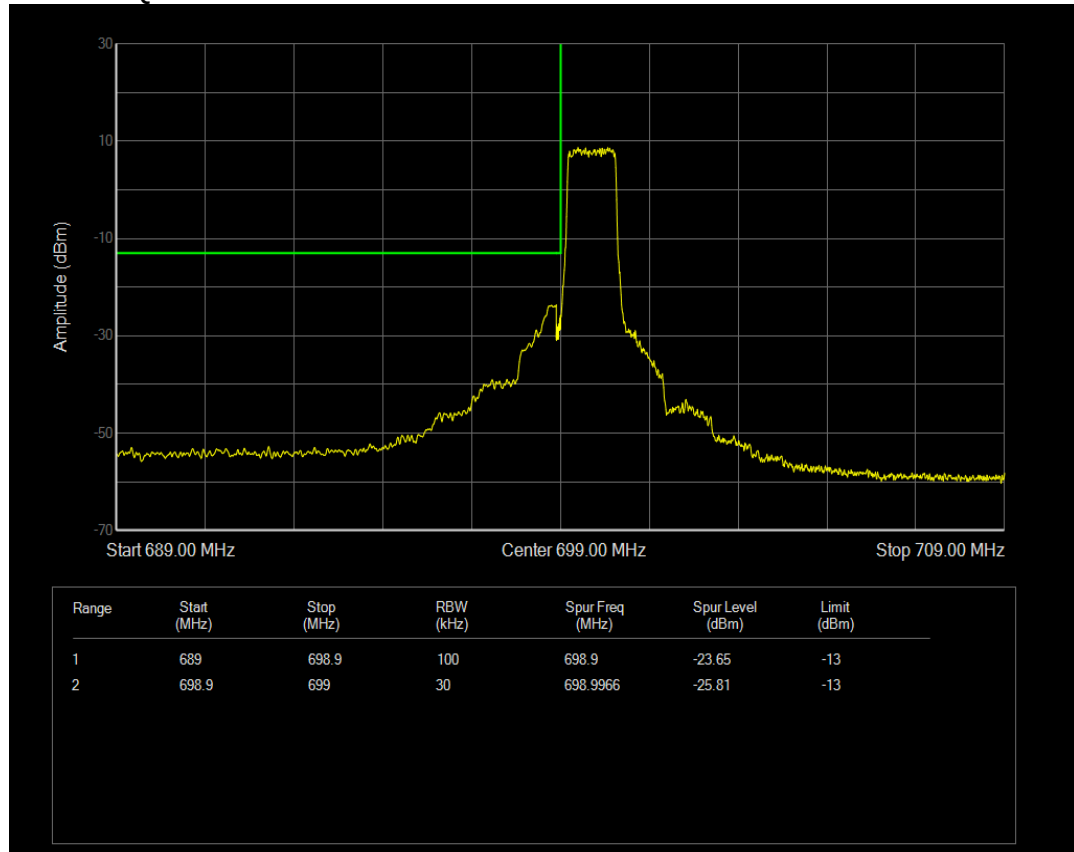




Band12 QPSK BW=10MHz Channel=23130 RB Size=1 Position=#Max

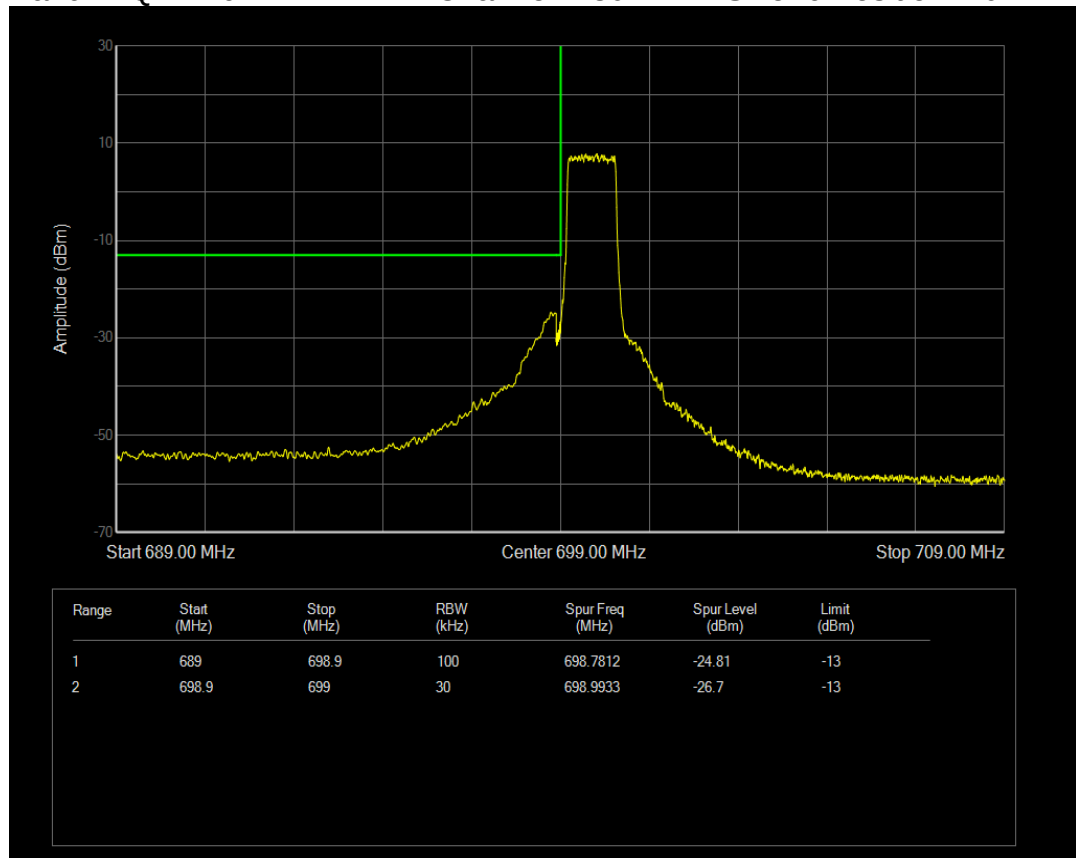


Band12 QPSK BW=1.4MHz Channel=23017 RB Size=6 Position=#0

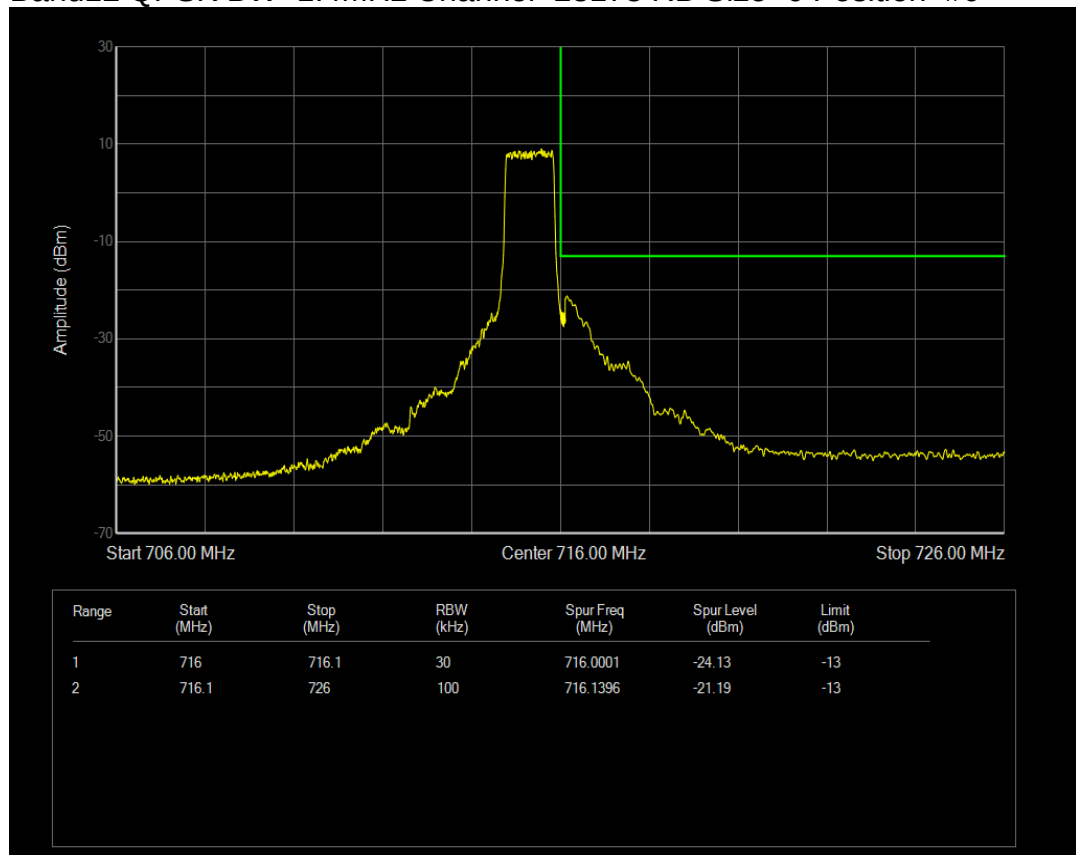




Band12 QAM16 BW=1.4MHz Channel=23017 RB Size=6 Position=#0

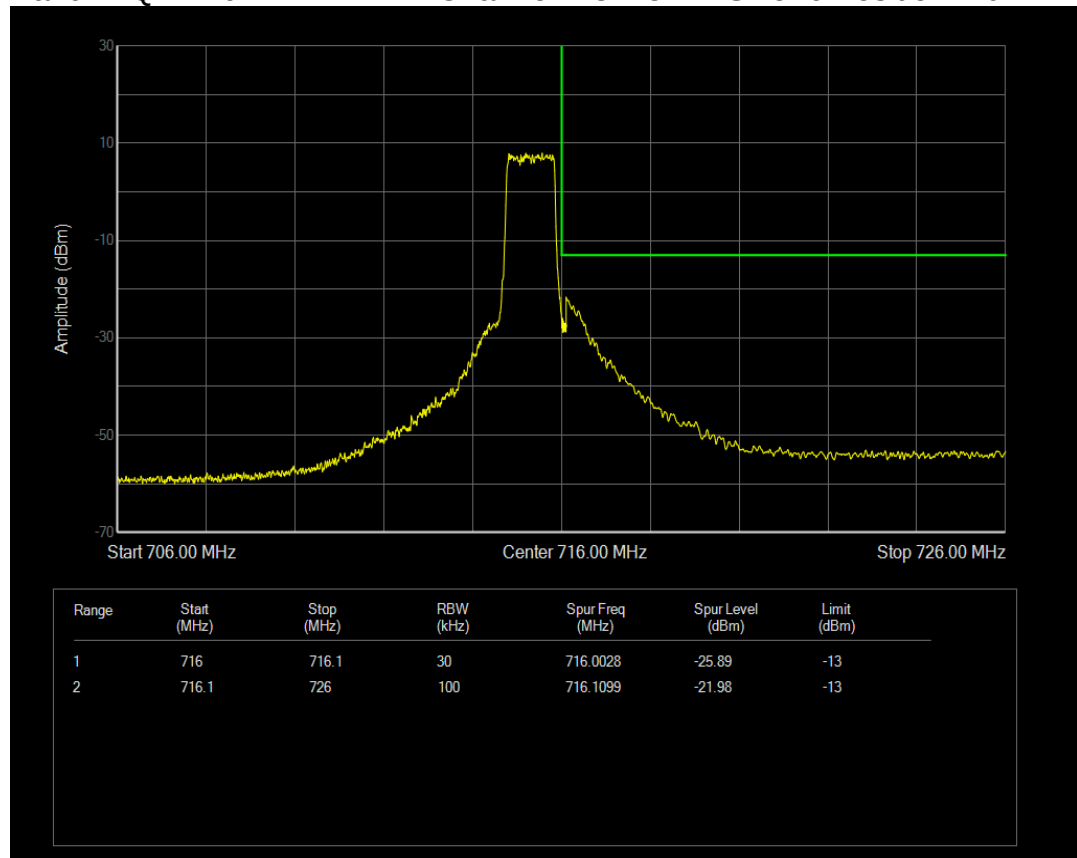


Band12 QPSK BW=1.4MHz Channel=23173 RB Size=6 Position=#0

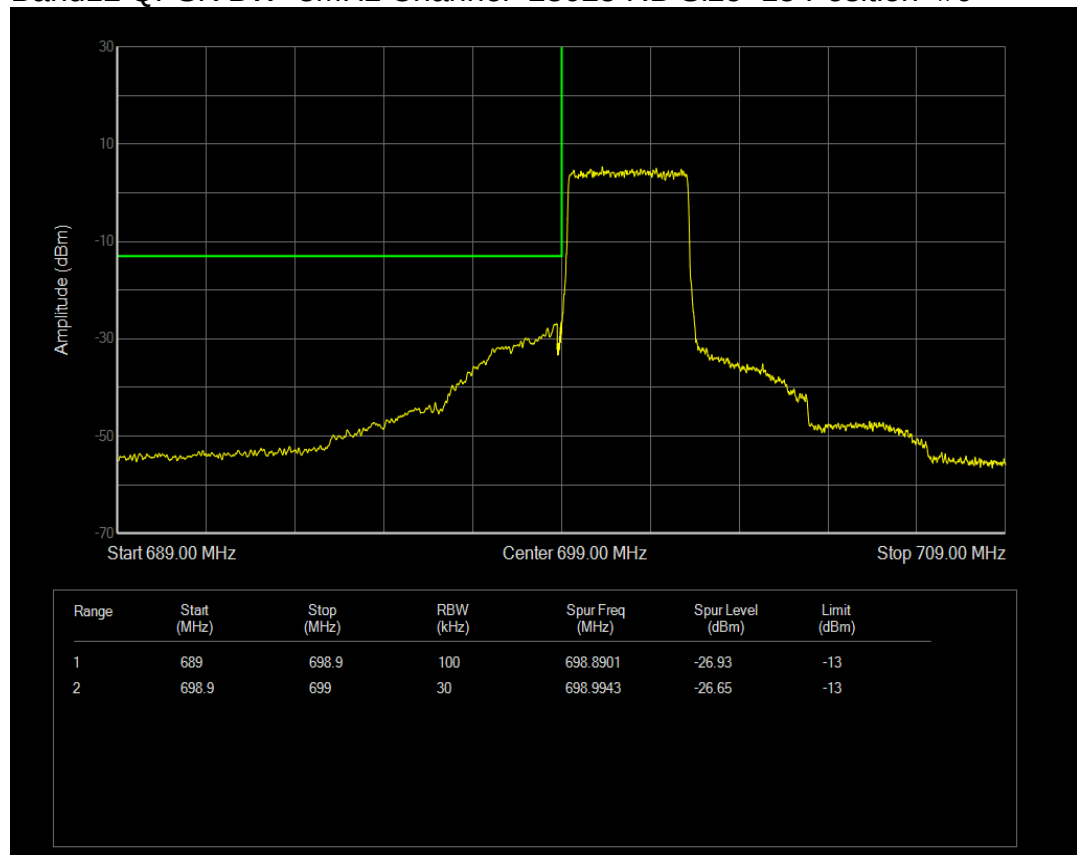




Band12 QAM16 BW=1.4MHz Channel=23173 RB Size=6 Position=#0

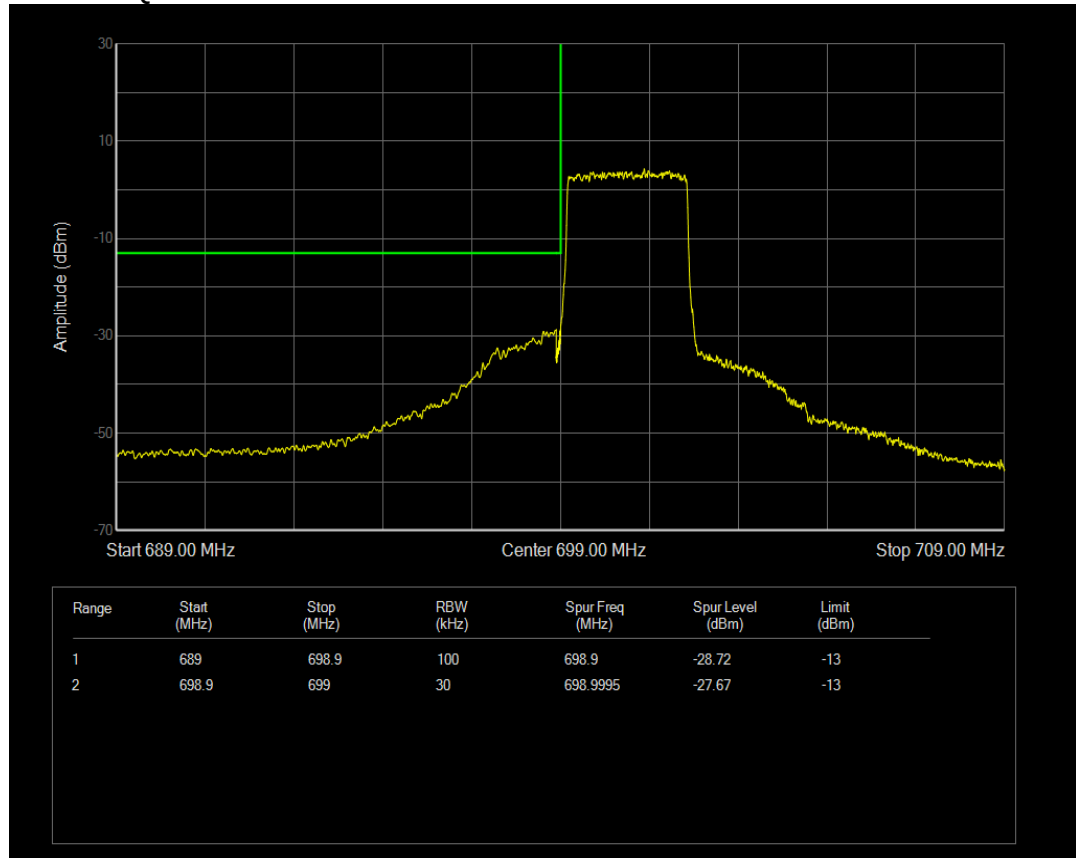


Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0

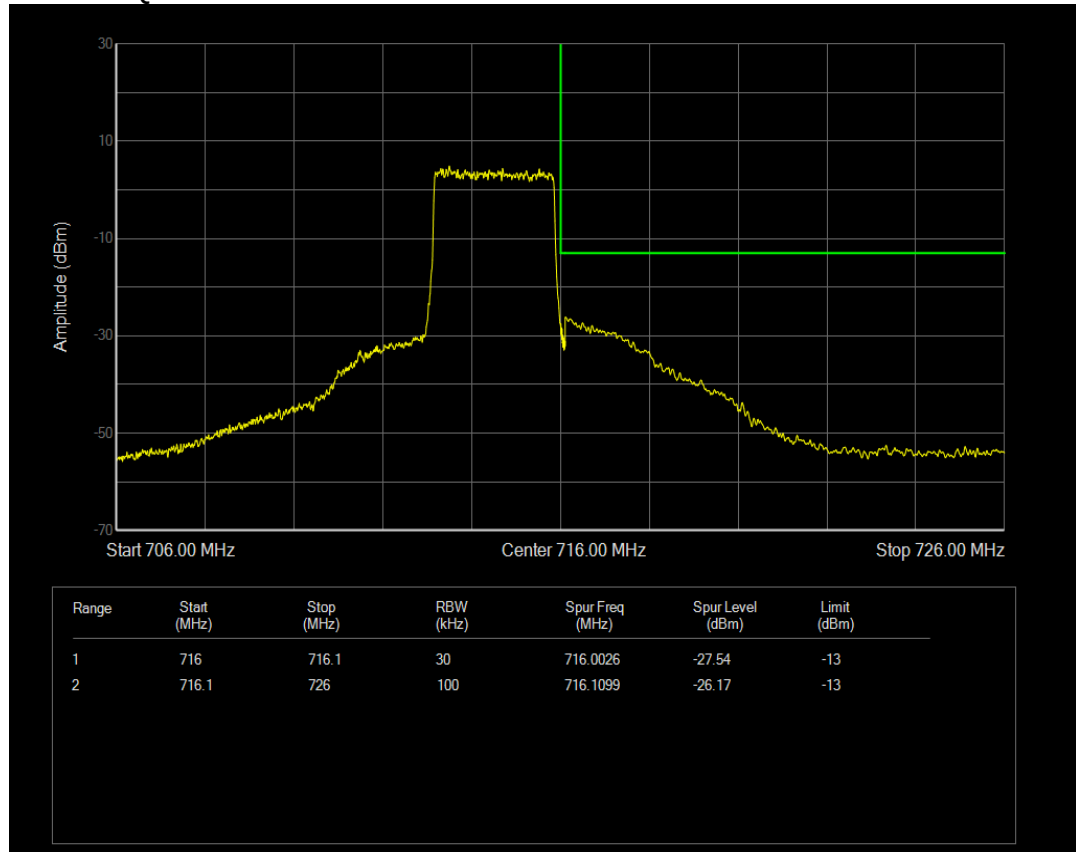




Band12 QAM16 BW=3MHz Channel=23025 RB Size=15 Position=#0

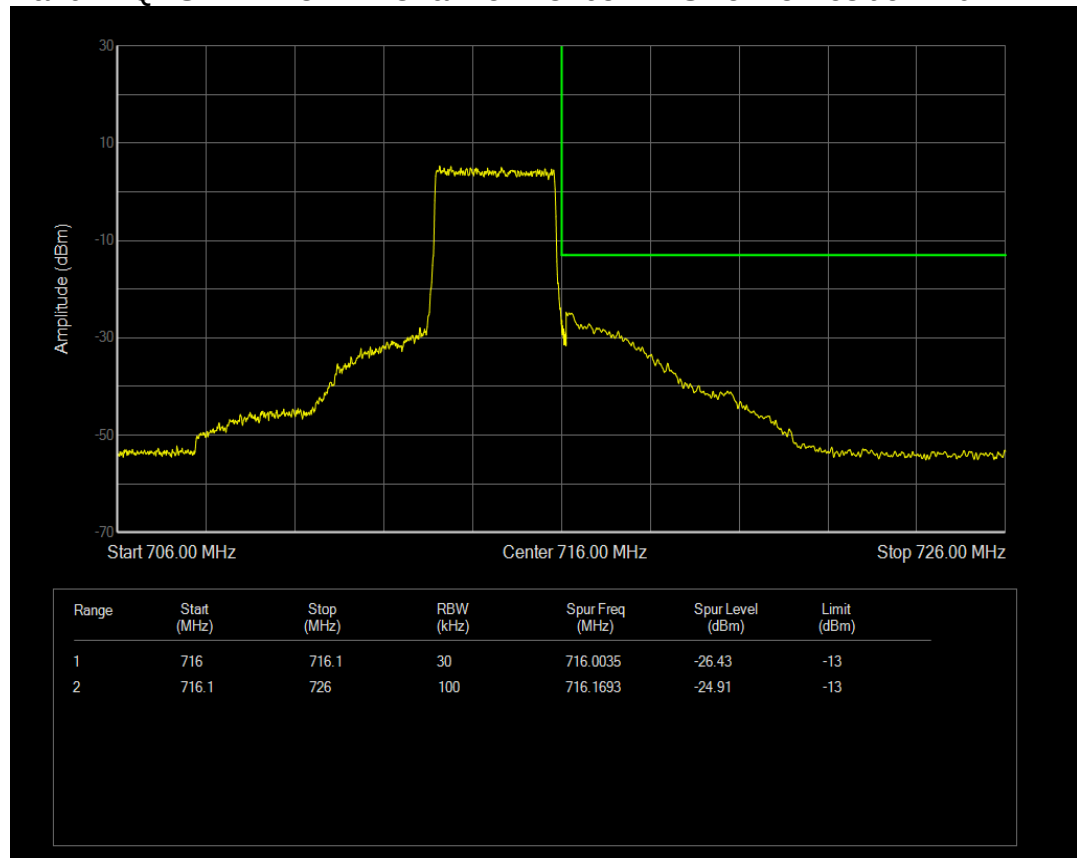


Band12 QAM16 BW=3MHz Channel=23165 RB Size=15 Position=#0

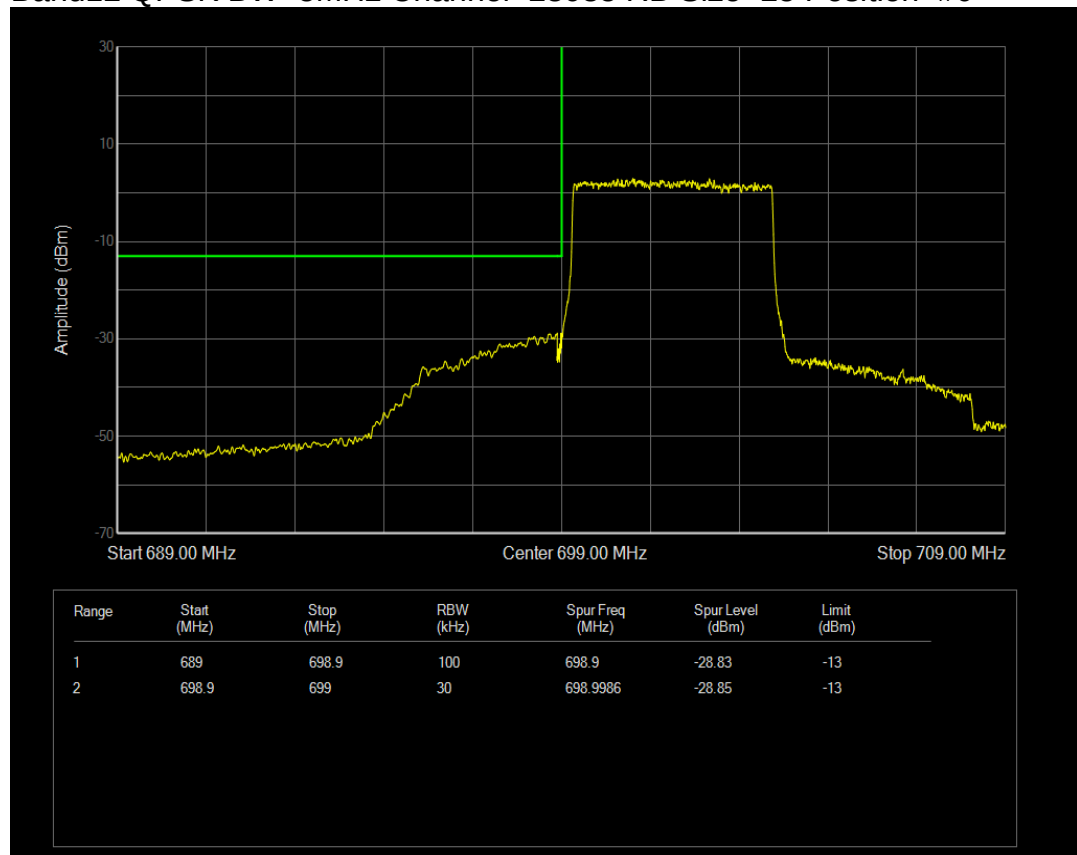




Band12 QPSK BW=3MHz Channel=23165 RB Size=15 Position=#0

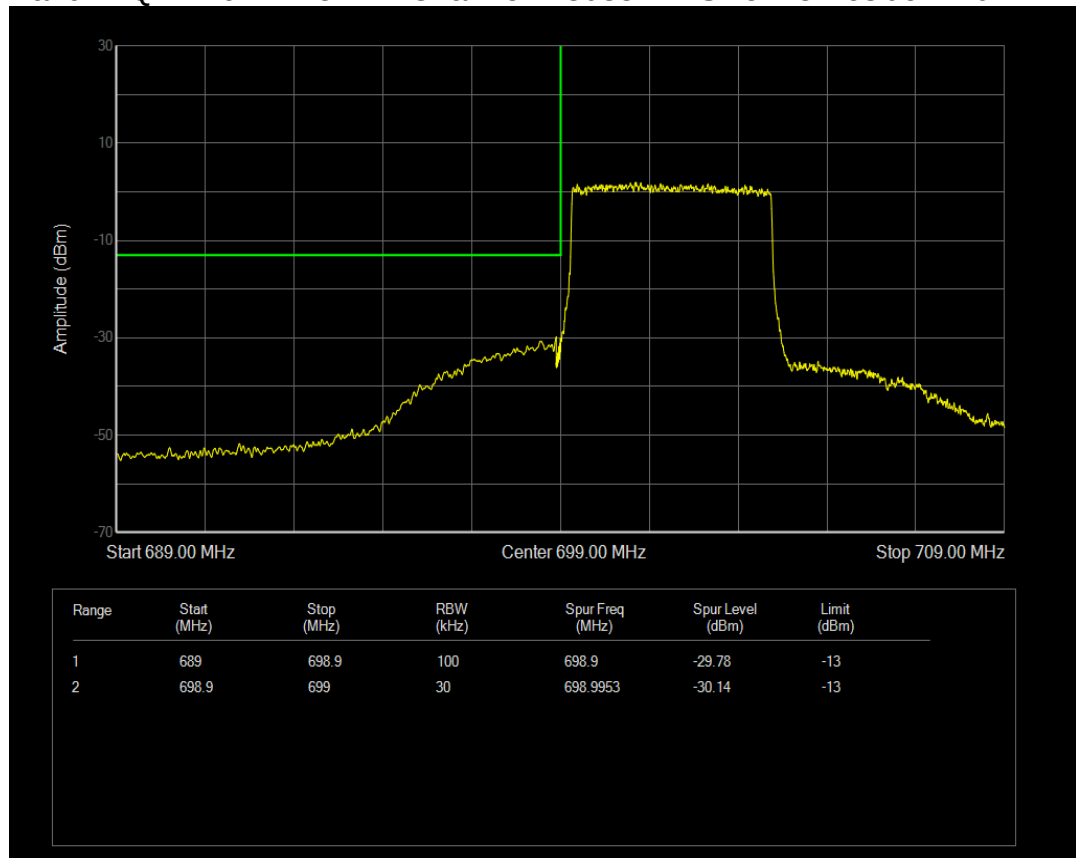


Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0

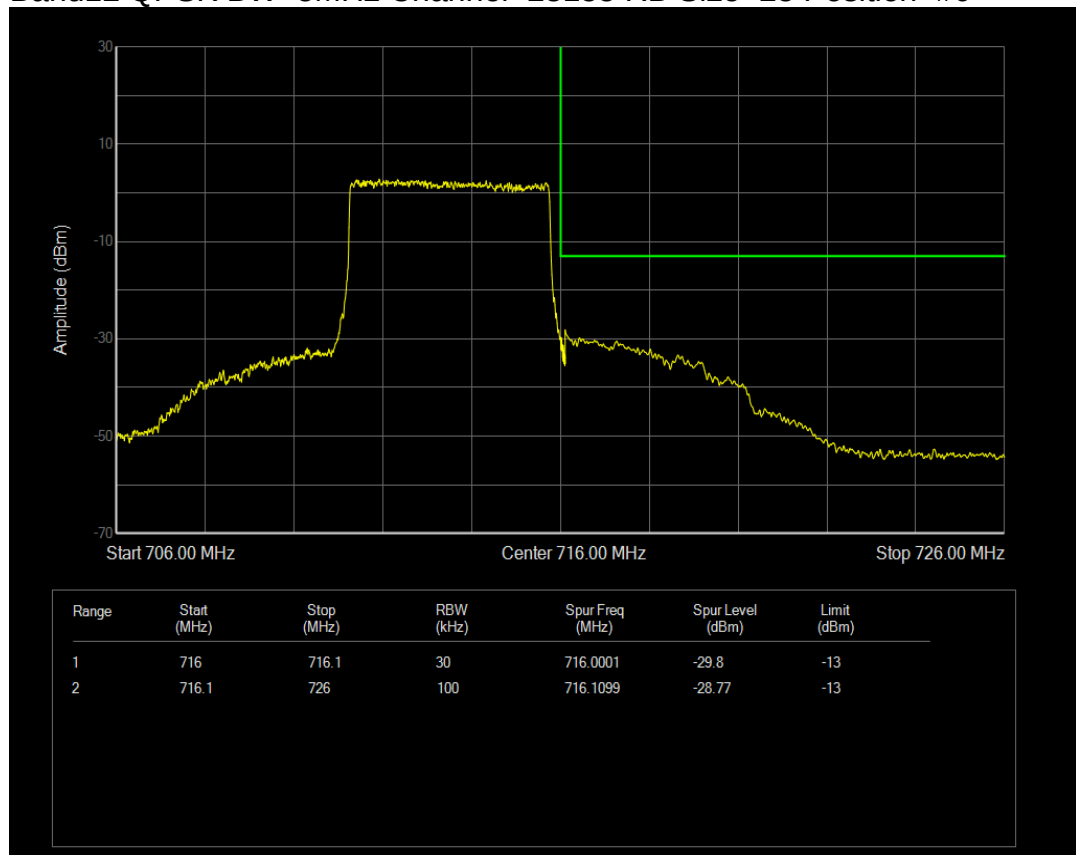




Band12 QAM16 BW=5MHz Channel=23035 RB Size=25 Position=#0

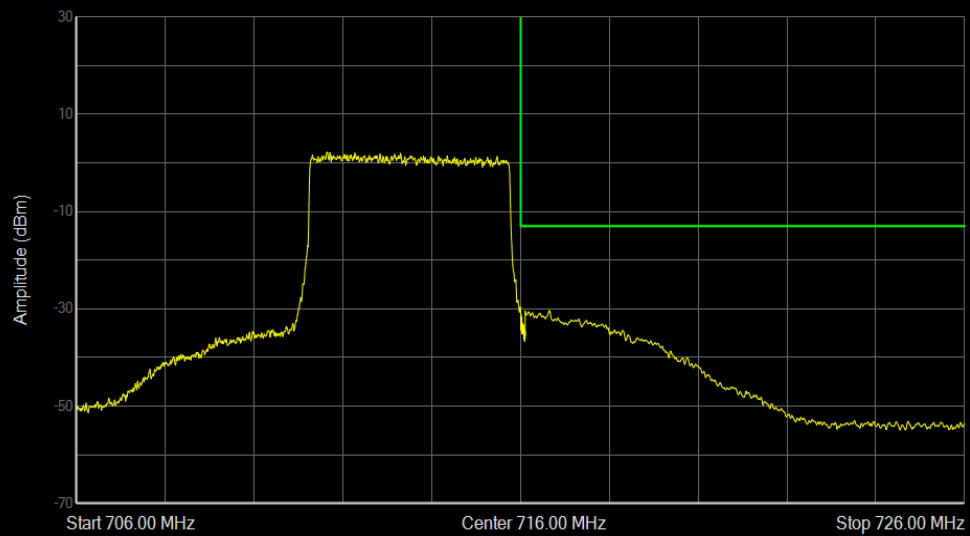


Band12 QPSK BW=5MHz Channel=23155 RB Size=25 Position=#0



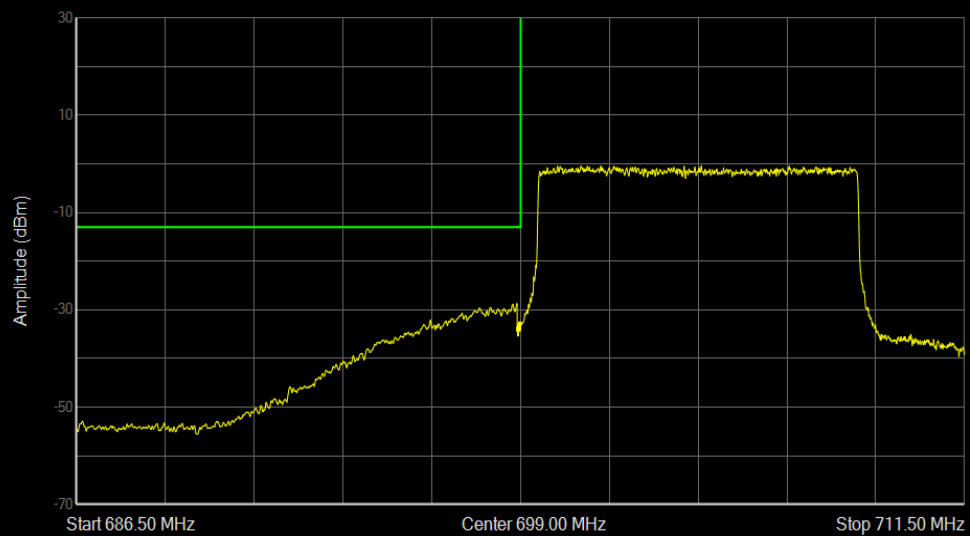


Band12 QAM16 BW=5MHz Channel=23155 RB Size=25 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0042	-31.08	-13
2	716.1	726	100	716.6445	-30.36	-13

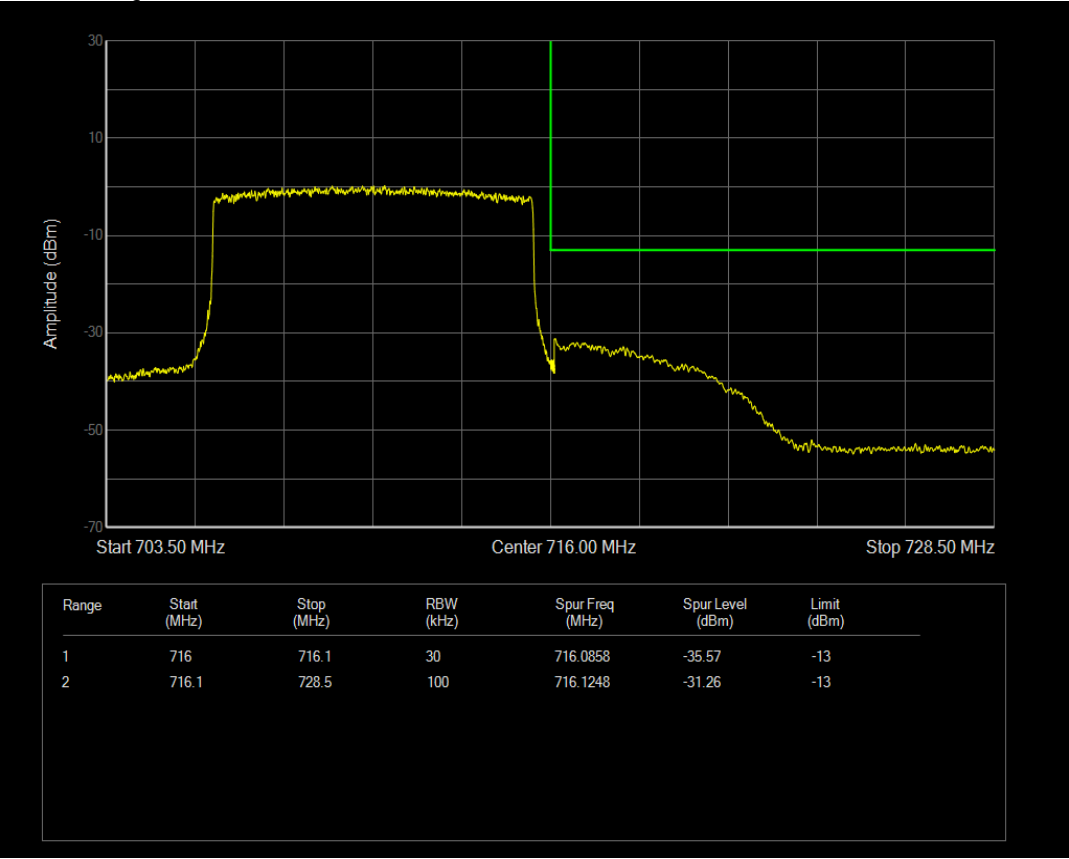
Band12 QPSK BW=10MHz Channel=23060 RB Size=50 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	686.5	698.9	100	698.8876	-28.75	-13
2	698.9	699	30	698.9766	-32.49	-13



Band12 QPSK BW=10MHz Channel=23130 RB Size=50 Position=#0



***** END *****