

Figure 735: QPSK 5MHz B.W.; 2112.5MHz, 15kHz - Output

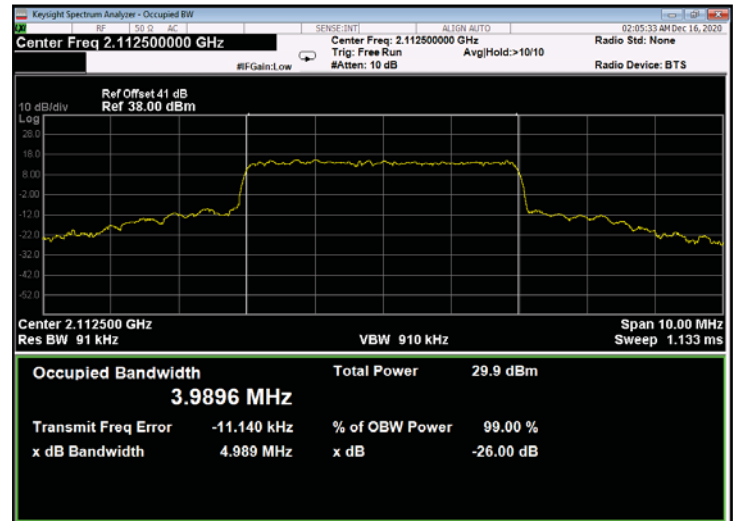


Figure 736: QPSK 5MHz B.W.; 2112.5MHz, 30kHz - Output

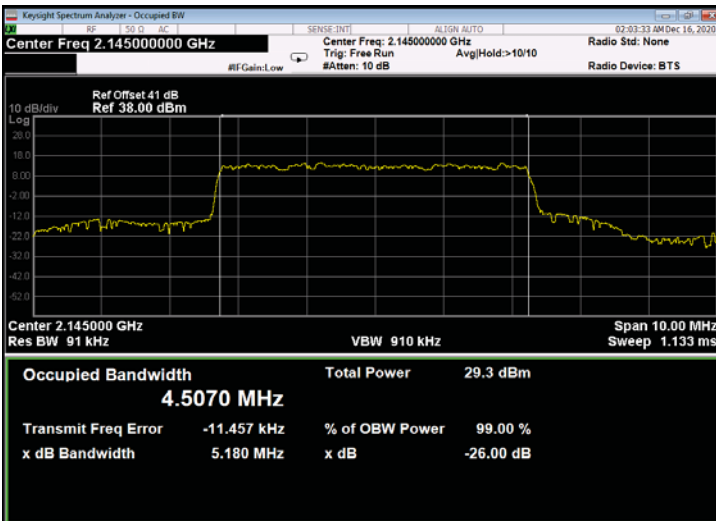


Figure 737: QPSK 5MHz B.W.; 2145.0MHz, 15kHz - Output

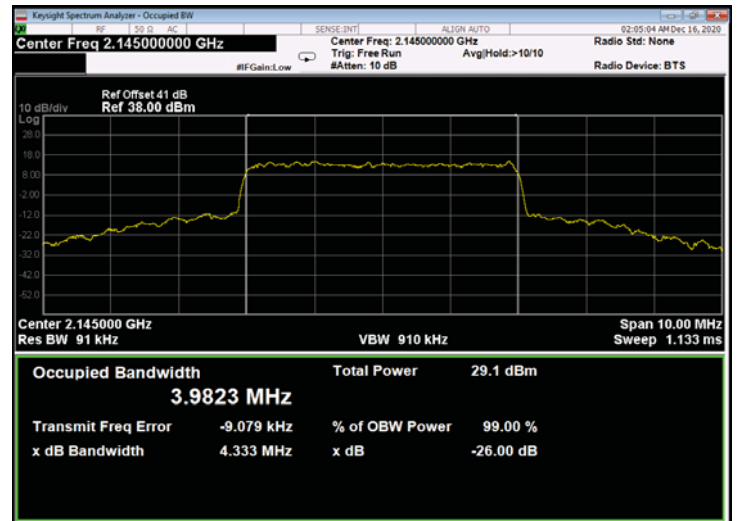


Figure 738: QPSK 5MHz B.W.; 2145.0MHz, 30kHz - Output

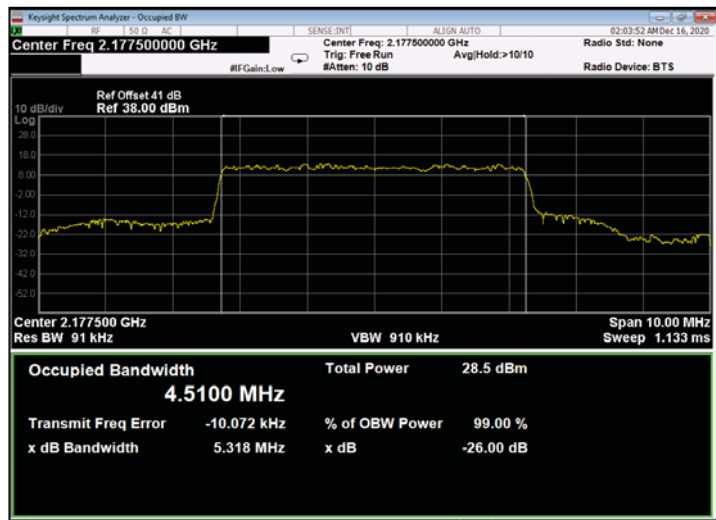


Figure 739: QPSK 5MHz B.W.; 2177.5MHz, 15kHz - Output

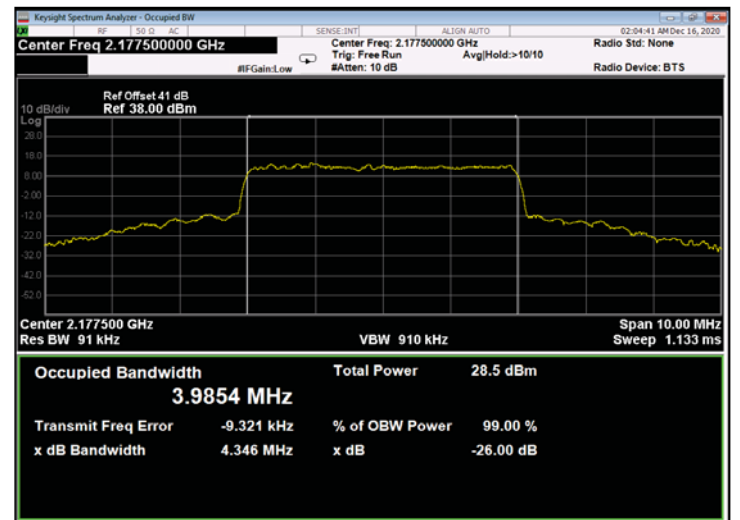


Figure 740: QPSK 5MHz C.S.; 2177.5MHz, 30kHz - Output

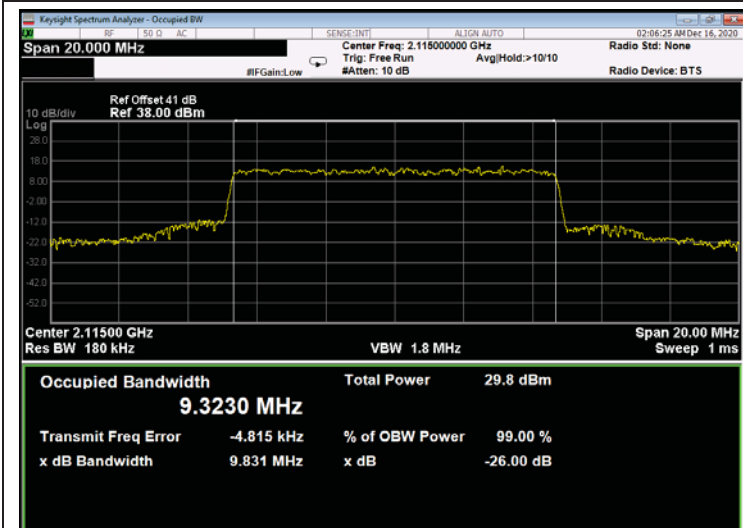


Figure 741: QPSK 10MHz B.W.; 2115.0MHz, 15kHz - Output

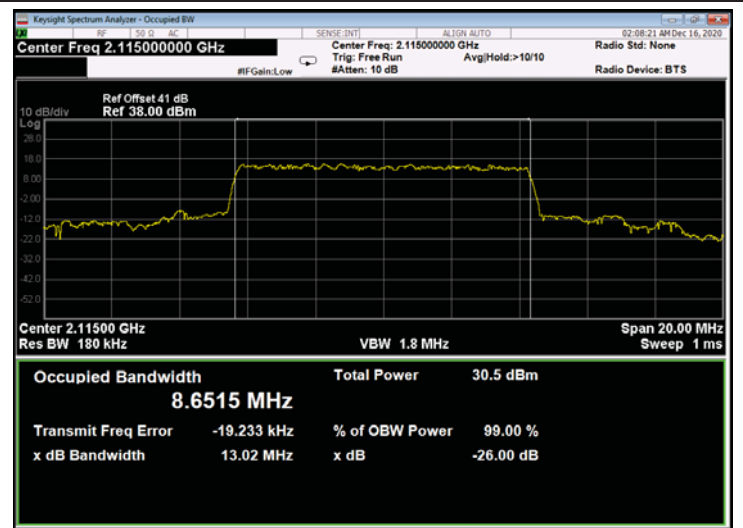


Figure 742: QPSK 10MHz B.W.; 2115.0MHz, 30kHz - Output

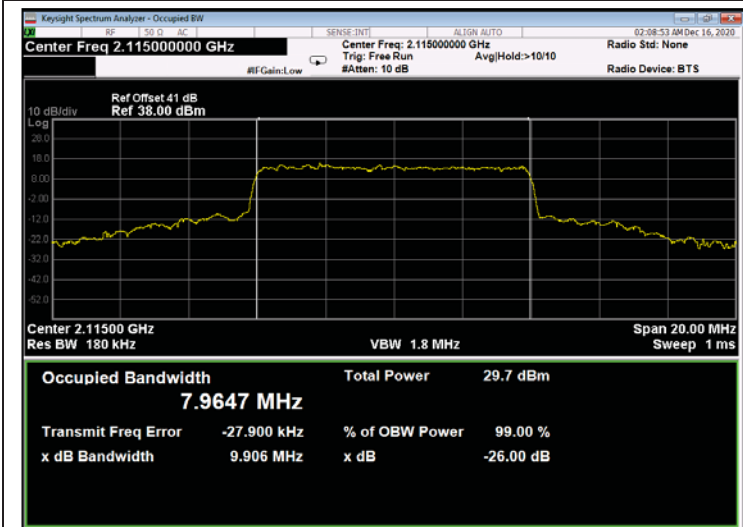


Figure 743: QPSK 10MHz B.W.; 2115.0MHz, 60kHz - Output

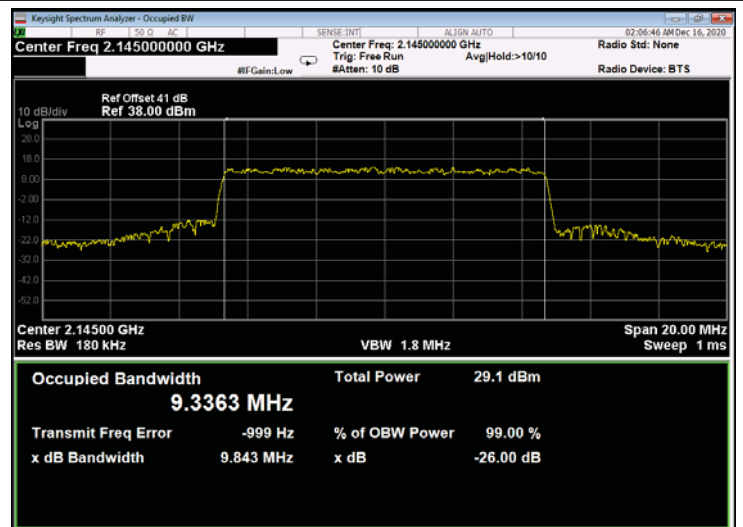


Figure 744: QPSK 10MHz B.W.; 2145.0MHz, 15kHz - Output

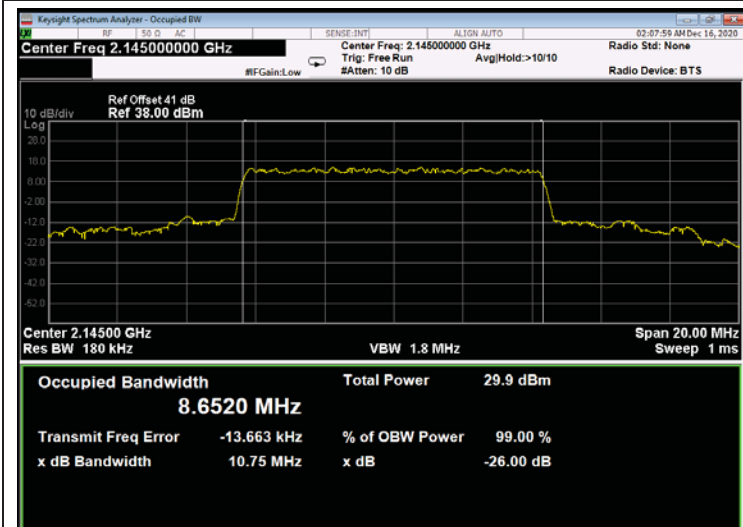


Figure 745: QPSK 10MHz B.W.; 2145.0MHz, 30kHz - Output

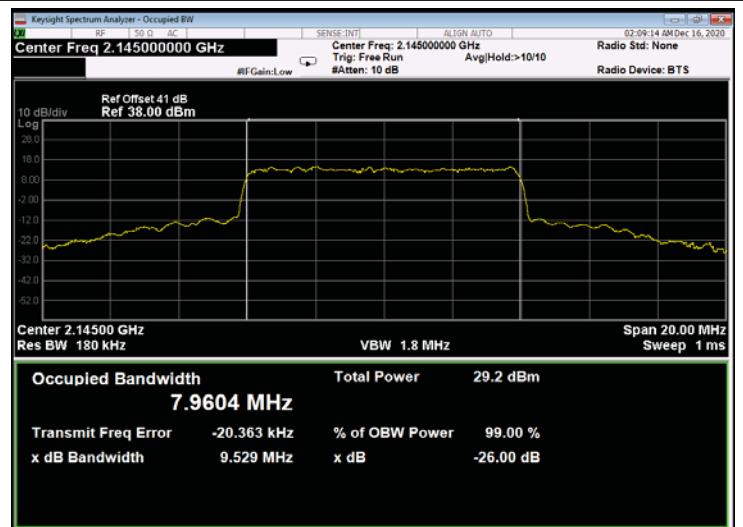


Figure 746: QPSK 10MHz B.W.; 2145.0MHz, 60kHz - Output

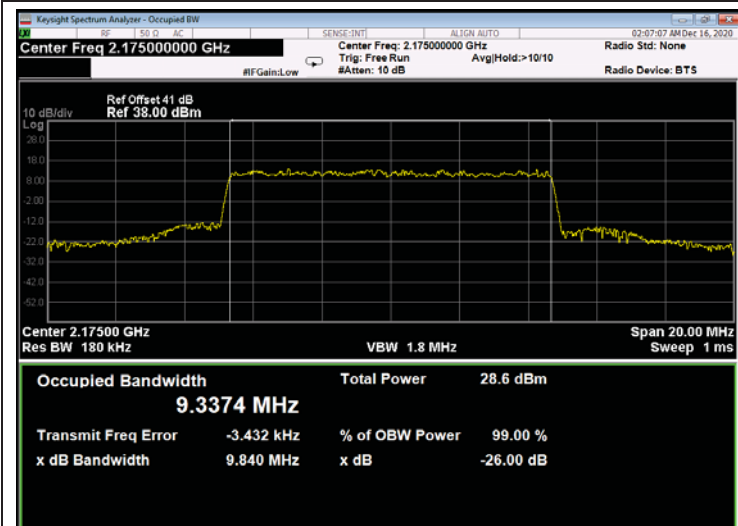


Figure 747: QPSK 10MHz B.W.; 2175.0MHz, 15kHz - Output

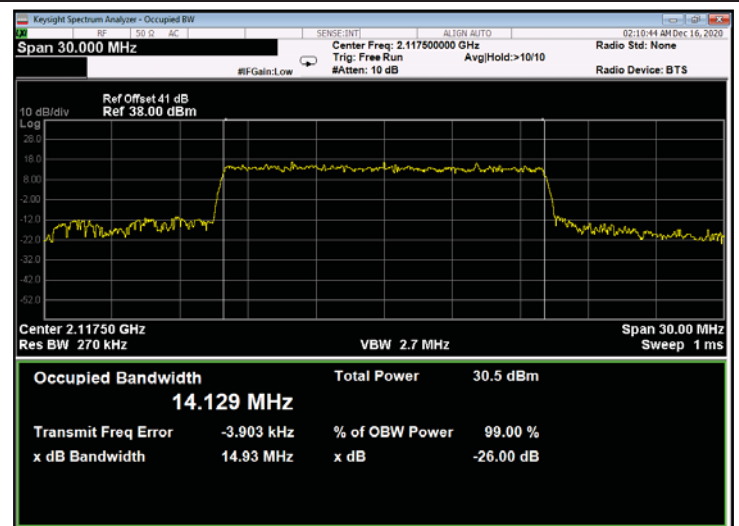


Figure 748: QPSK 10MHz B.W.; 2175.0MHz, 30kHz - Output

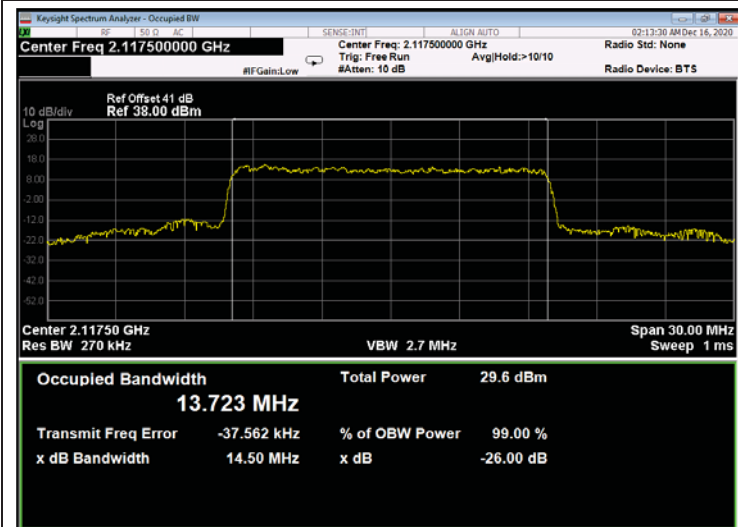


Figure 749: QPSK 10MHz B.W.; 2175.0MHz, 60kHz - Output

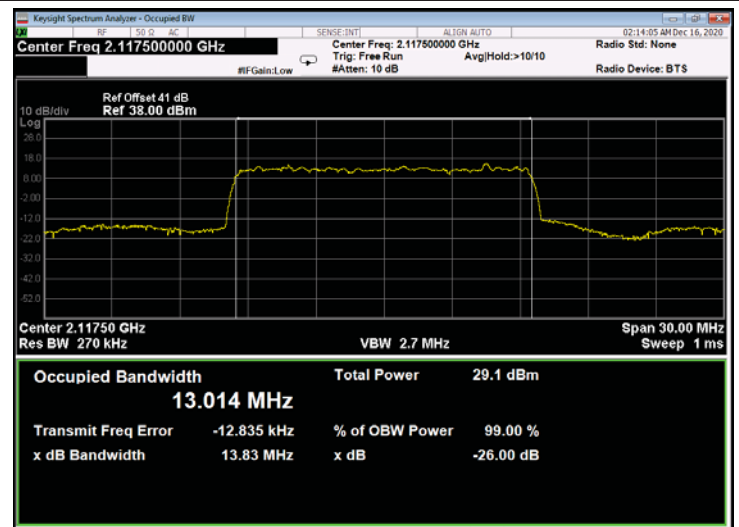


Figure 750: QPSK 15MHz B.W.; 2117.5MHz, 15kHz - Output

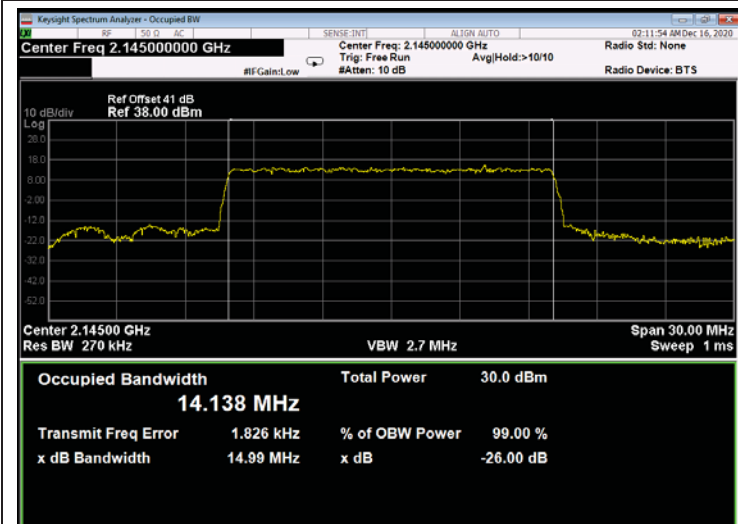


Figure 751: QPSK 15MHz B.W.; 2117.5MHz, 30kHz - Output

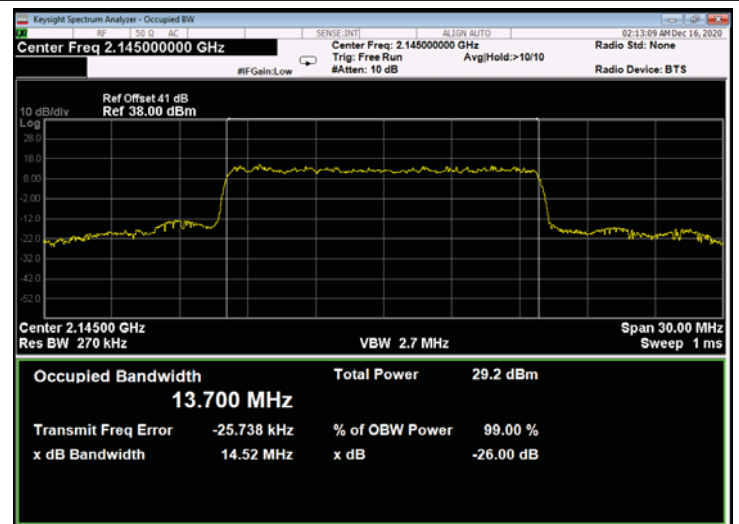


Figure 752: QPSK 10MHz B.W.; 2117.5MHz, 60kHz - Output

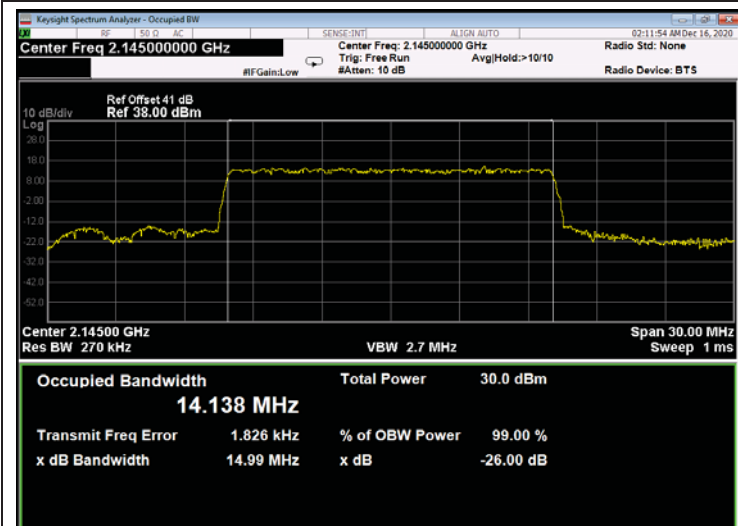


Figure 753: QPSK 15MHz B.W.; 2145.0MHz, 15kHz - Output

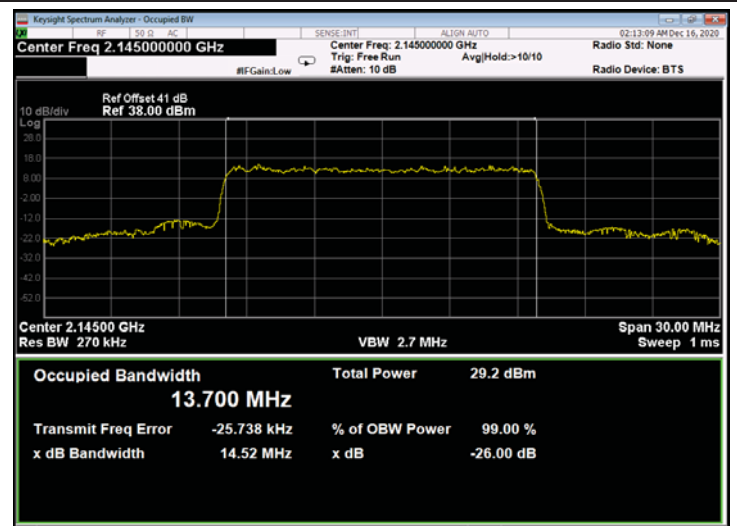


Figure 754: QPSK 15MHz B.W.; 2145.0MHz, 30kHz - Output

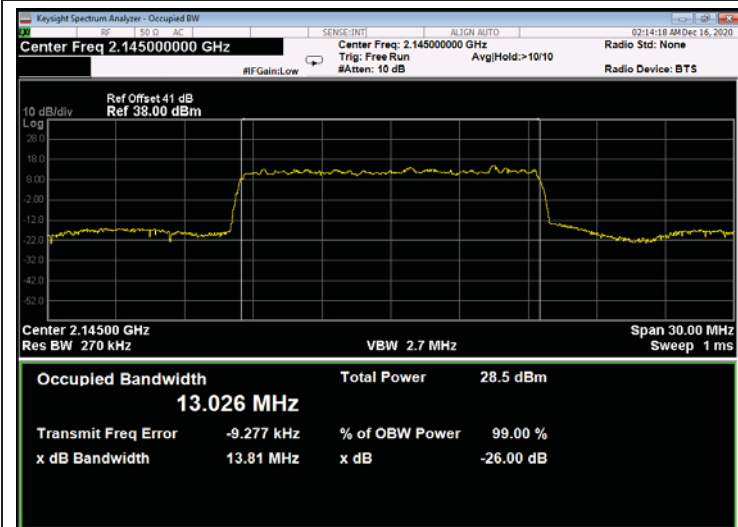


Figure 755: QPSK 15MHz B.W.; 2145.0MHz, 60kHz - Output

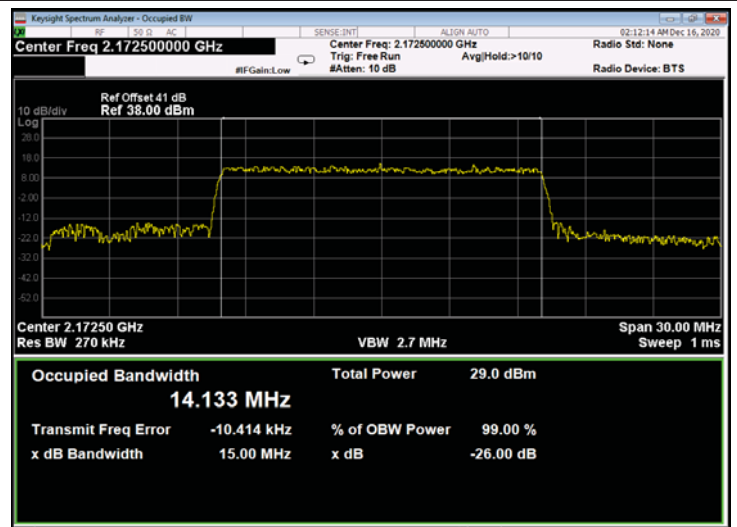


Figure 756: QPSK 15MHz B.W.; 2175.5MHz, 15kHz - Output

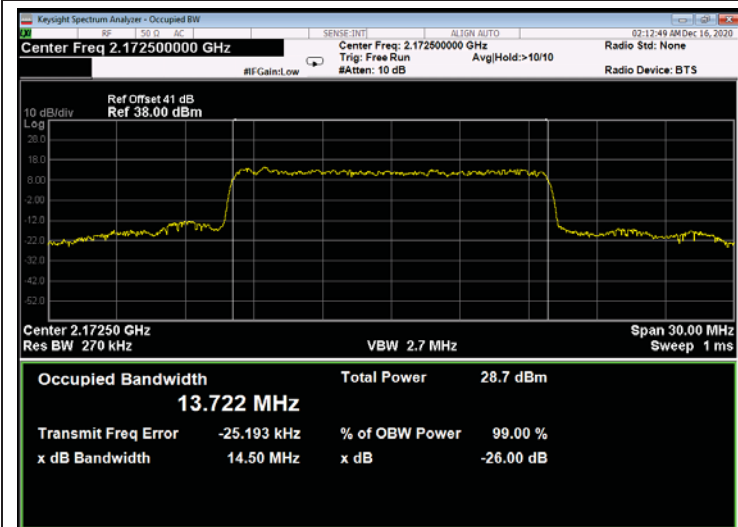


Figure 757: QPSK 15MHz B.W.; 2175.5MHz, 30kHz - Output

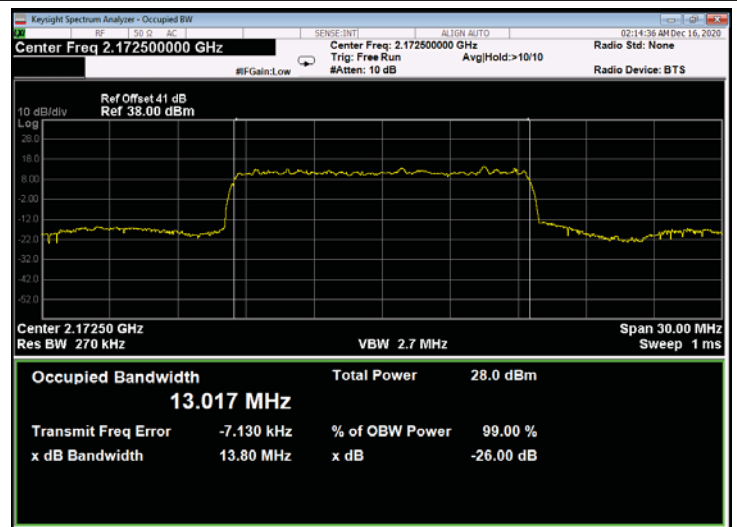


Figure 758: QPSK 15MHz B.W.; 2175.5MHz, 60kHz - Output

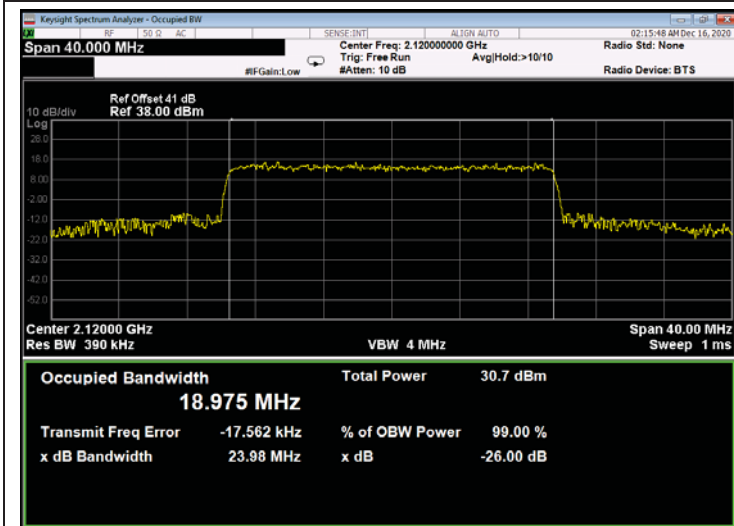


Figure 759: QPSK 20MHz B.W.; 2120.0MHz, 15kHz - Output

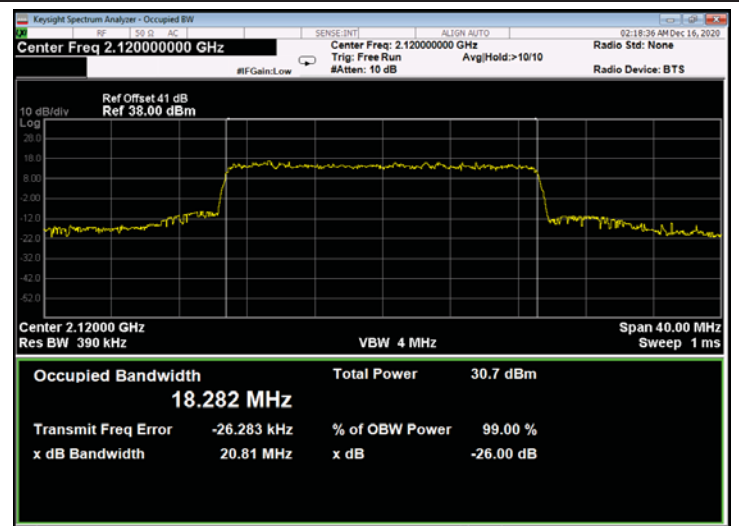


Figure 760: QPSK 20MHz B.W.; 2120.0MHz, 30kHz - Output

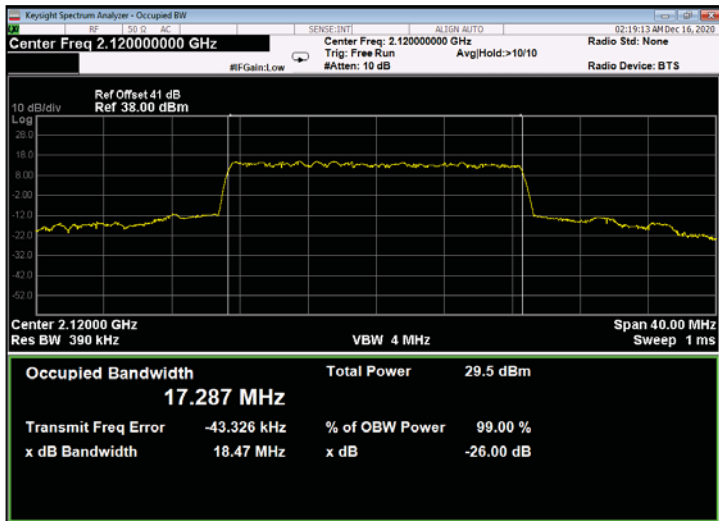


Figure 761: QPSK 20MHz B.W.; 2120.0MHz, 60kHz - Output

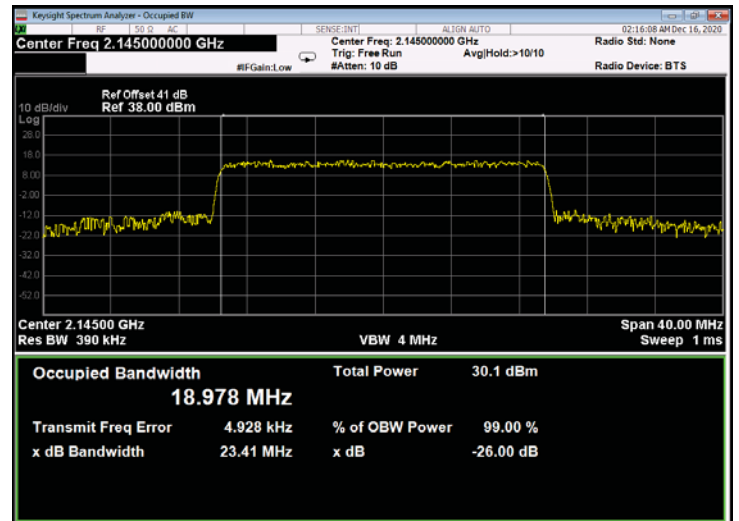


Figure 762: QPSK 20MHz B.W.; 2145.0MHz, 15kHz - Output

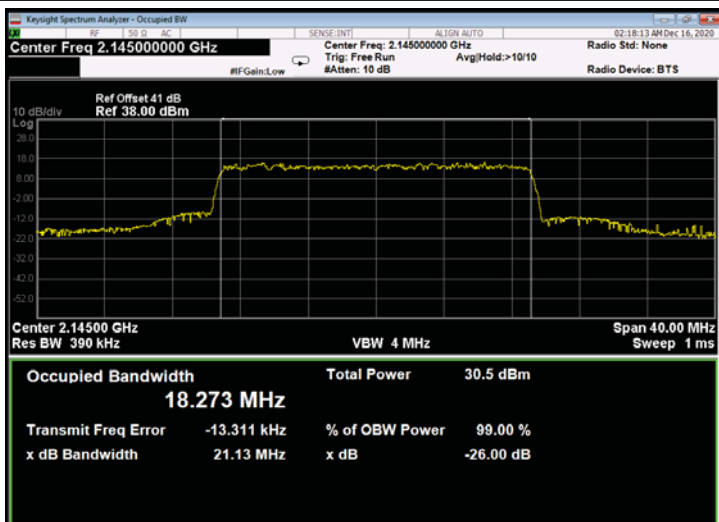


Figure 763: QPSK 20MHz B.W.; 2145.0MHz, 30kHz - Output

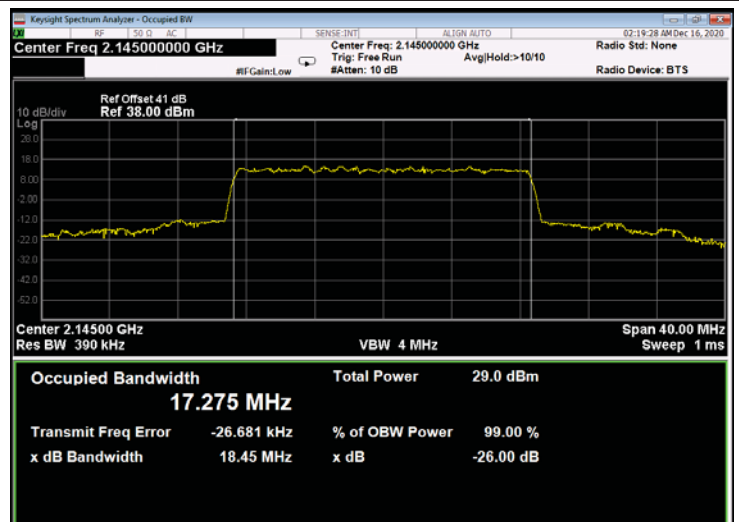


Figure 764: QPSK 20MHz B.W.; 2145.0MHz, 60kHz - Output

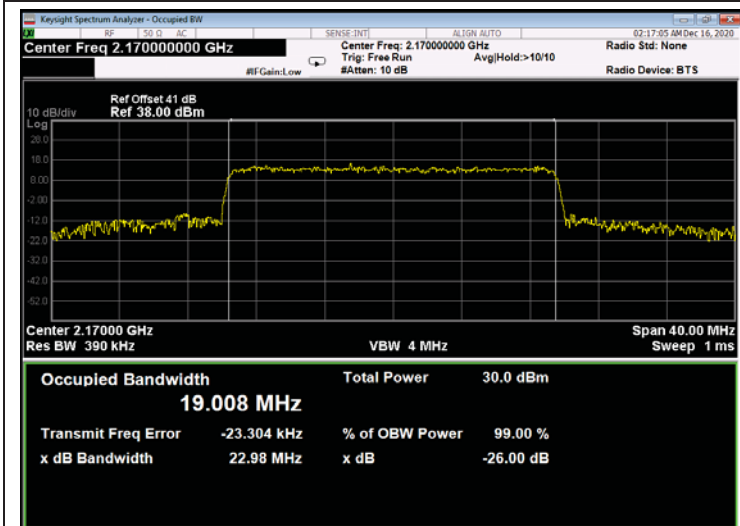


Figure 765: QPSK 20MHz B.W.; 2170.0MHz, 15kHz - Output

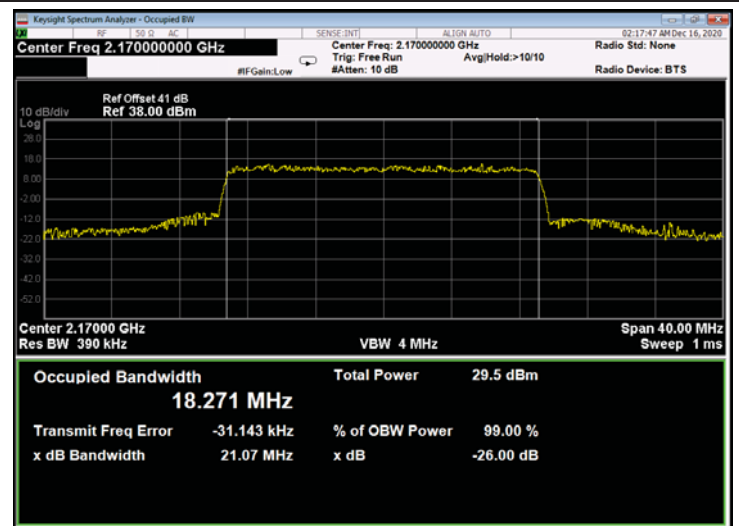


Figure 766: QPSK 20MHz B.W.; 2170.0MHz, 30kHz - Output

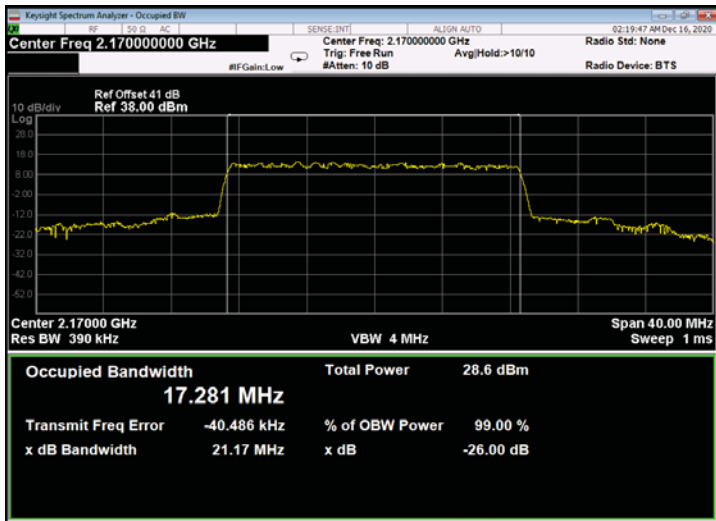


Figure 767: QPSK 20MHz B.W.; 2170.0MHz, 60kHz - Output

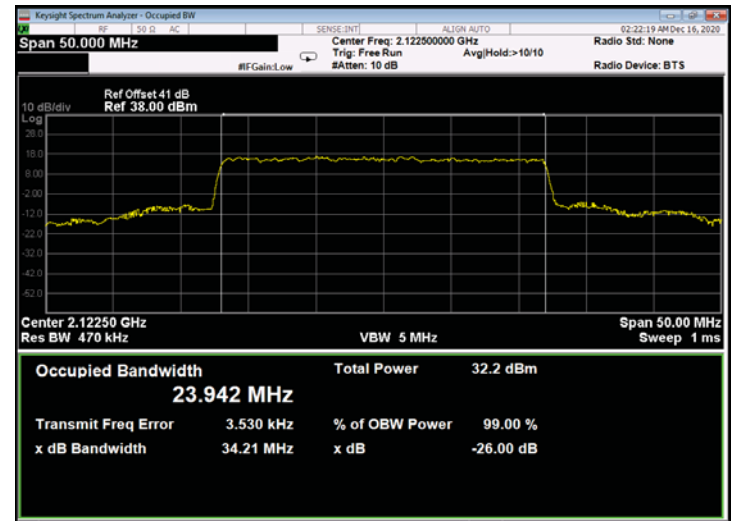


Figure 768: QPSK 25MHz B.W.; 2122.5MHz, 15kHz - Output

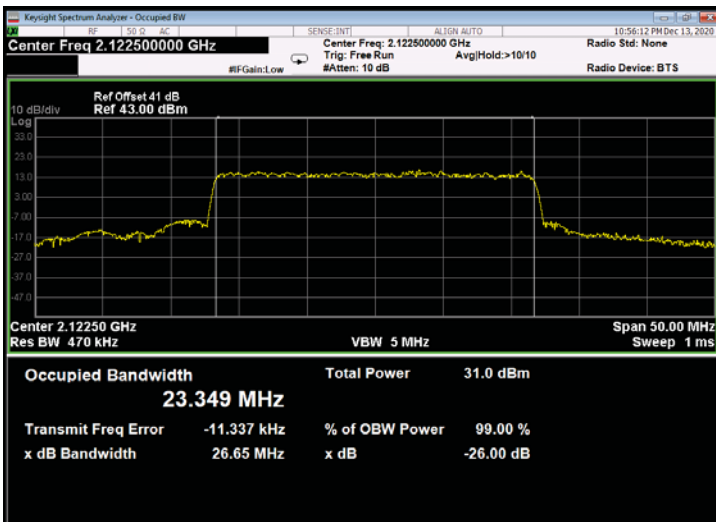


Figure 769: QPSK 25MHz B.W.; 2122.5MHz, 30kHz - Output

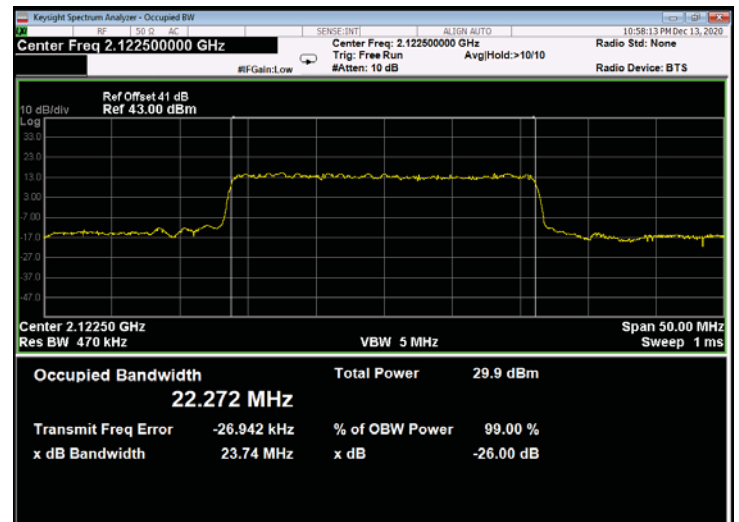


Figure 770: QPSK 25MHz B.W.; 2122.5MHz, 60kHz - Output

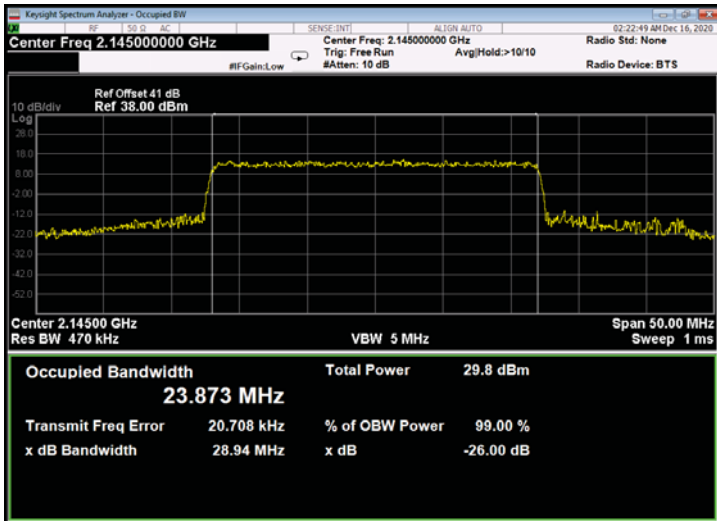


Figure 771: QPSK 25MHz B.W.; 2145.0MHz, 15kHz - Output

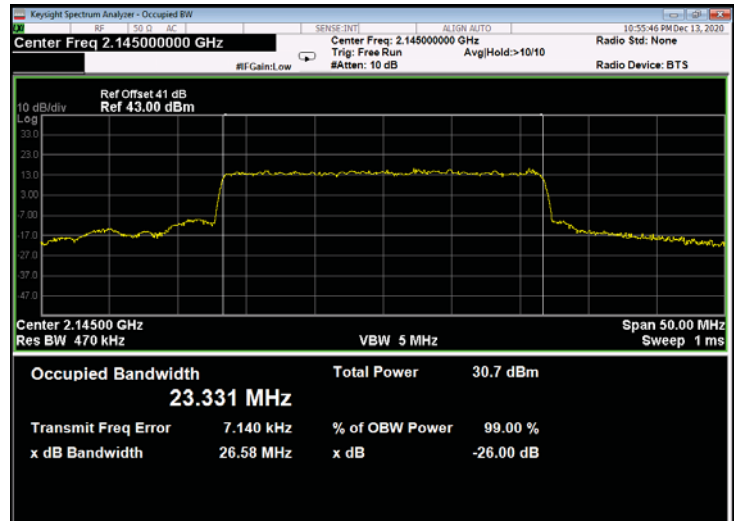


Figure 772: QPSK 25MHz B.W.; 2145.0MHz, 30kHz - Output

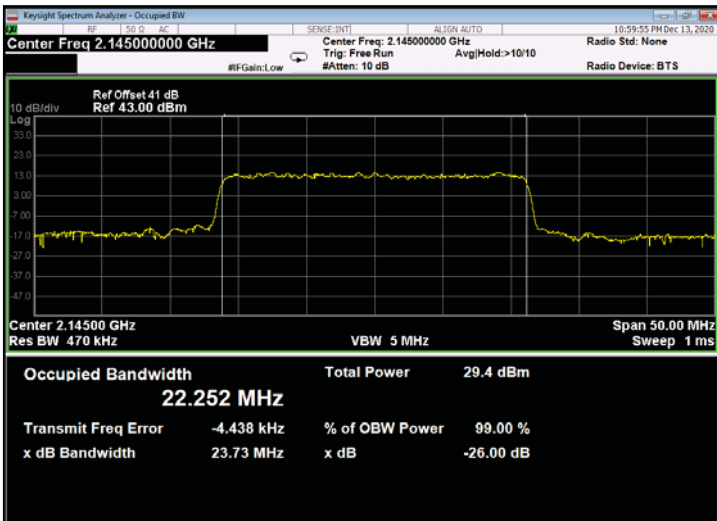


Figure 773: QPSK 25MHz B.W.; 2145.0MHz, 60kHz - Output

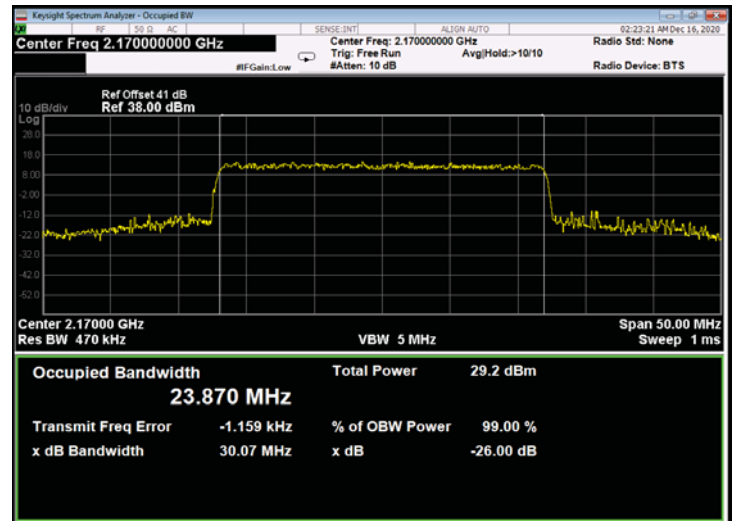


Figure 774: QPSK 25MHz B.W.; 2167.5MHz, 15kHz - Output

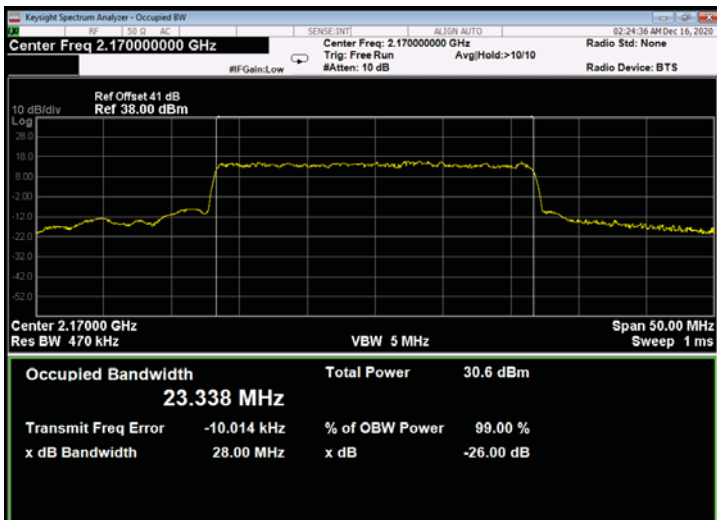


Figure 775: QPSK 25MHz B.W.; 2167.5MHz, 30kHz - Output

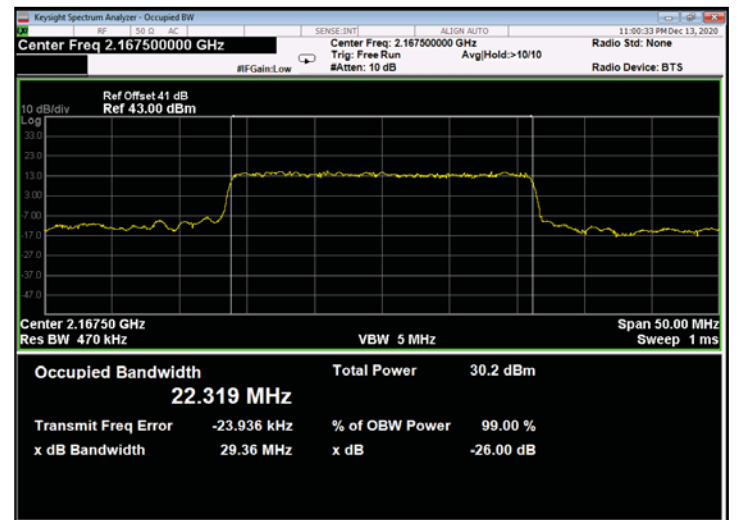


Figure 776: QPSK 25MHz B.W.; 2167.5MHz, 60kHz - Output

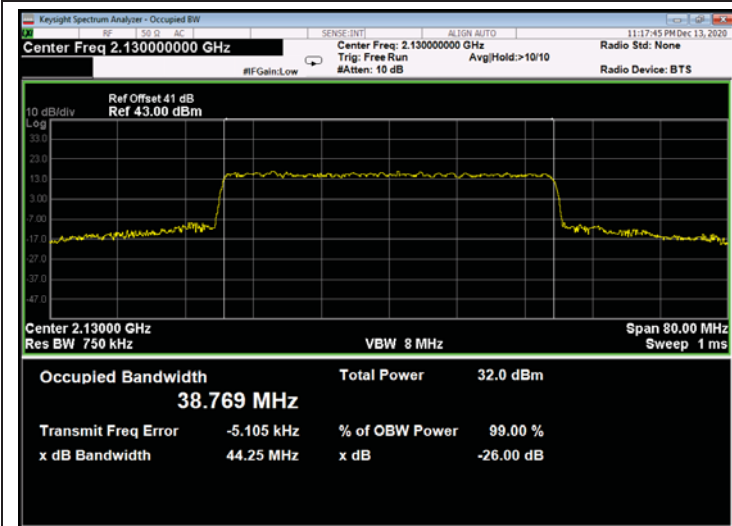


Figure 777: QPSK 40MHz B.W.; 2130.0MHz, 15kHz - Output

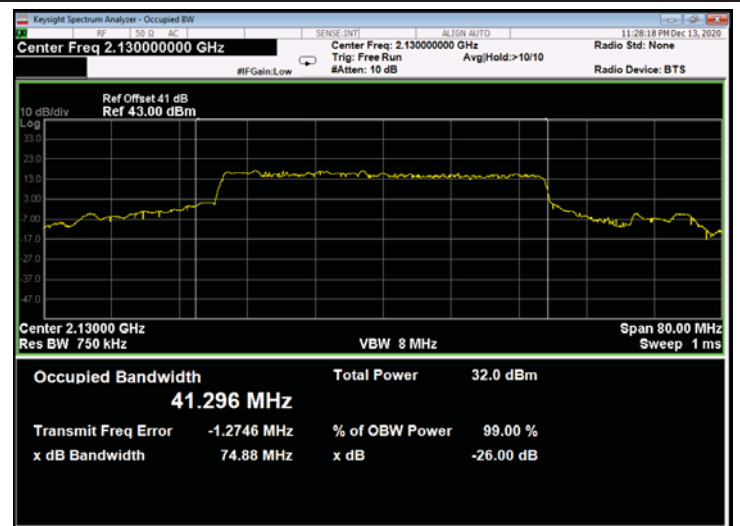


Figure 778: QPSK 40MHz B.W.; 2130.0MHz, 30kHz - Output

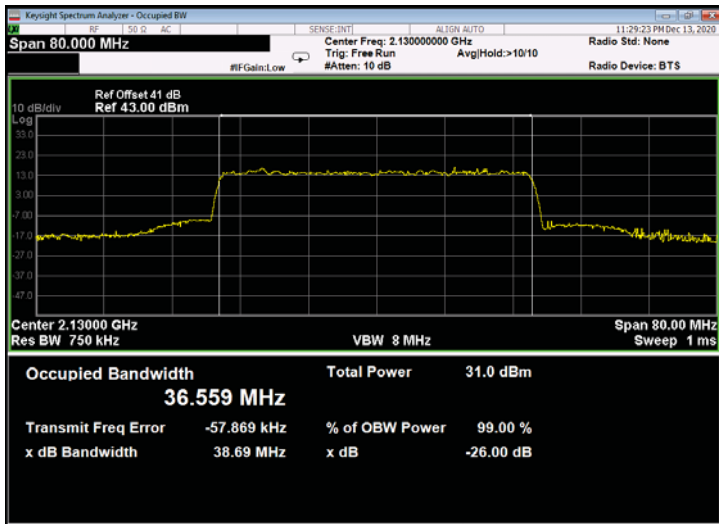


Figure 779: QPSK 40MHz B.W.; 2130.0MHz, 60kHz - Output

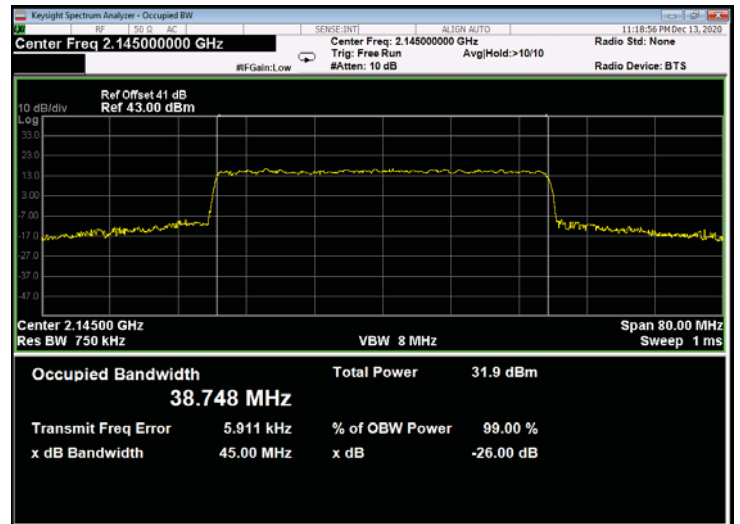


Figure 780: QPSK 40MHz B.W.; 2145.0MHz, 15kHz - Output

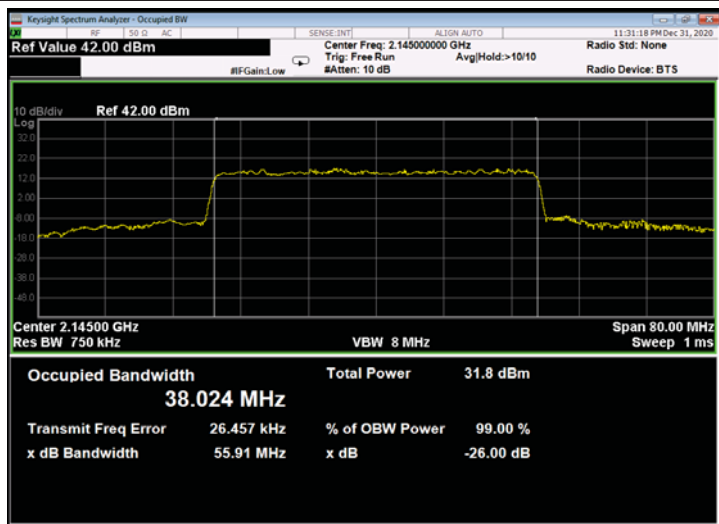


Figure 781: QPSK 40MHz B.W.; 2145.0MHz, 30kHz - Output

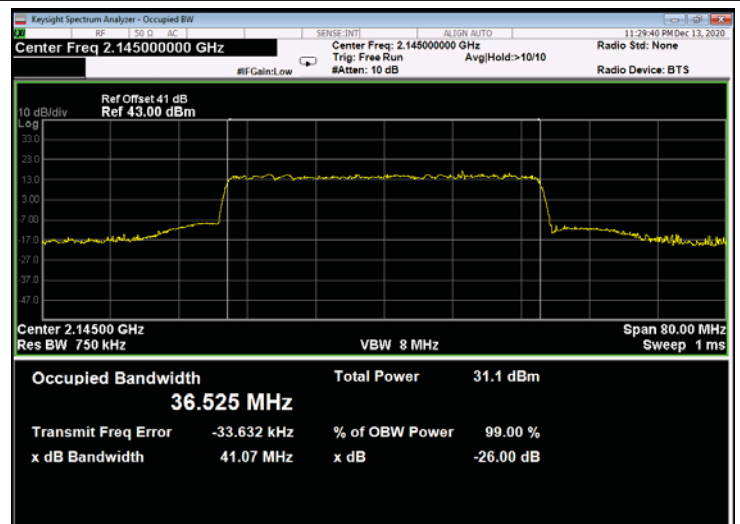


Figure 782: QPSK 40MHz B.W.; 2145.0MHz, 60kHz - Output



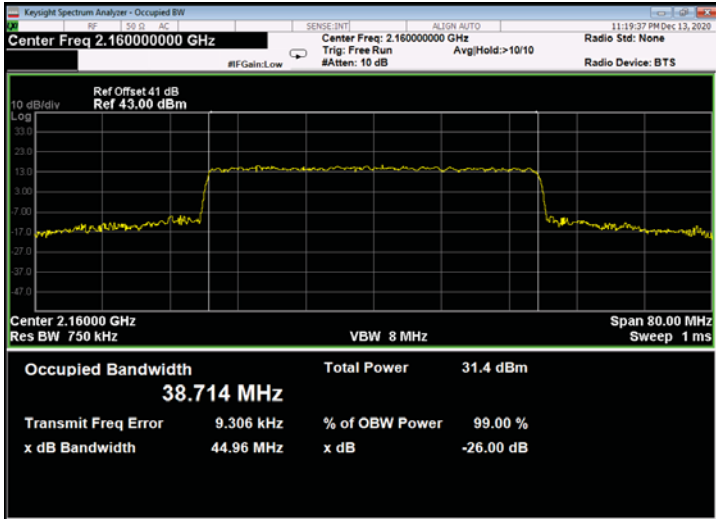


Figure 783: QPSK 40MHz B.W.; 2160.0MHz, 15kHz - Output

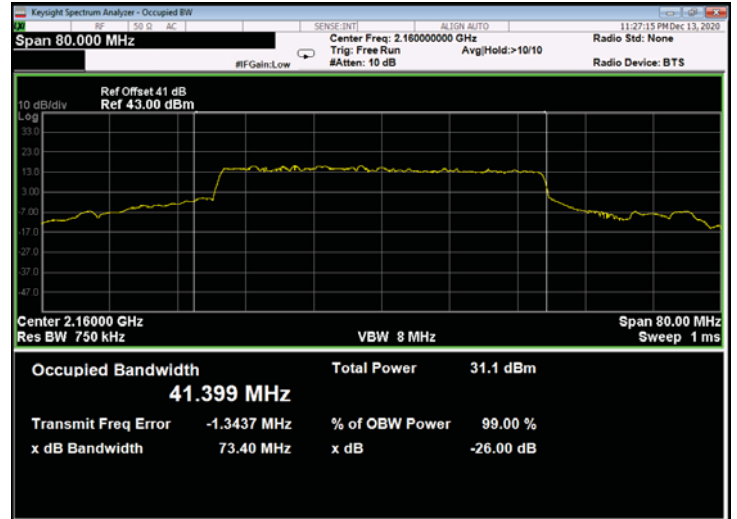


Figure 784: QPSK 40MHz B.W.; 2160.0MHz, 30kHz - Output

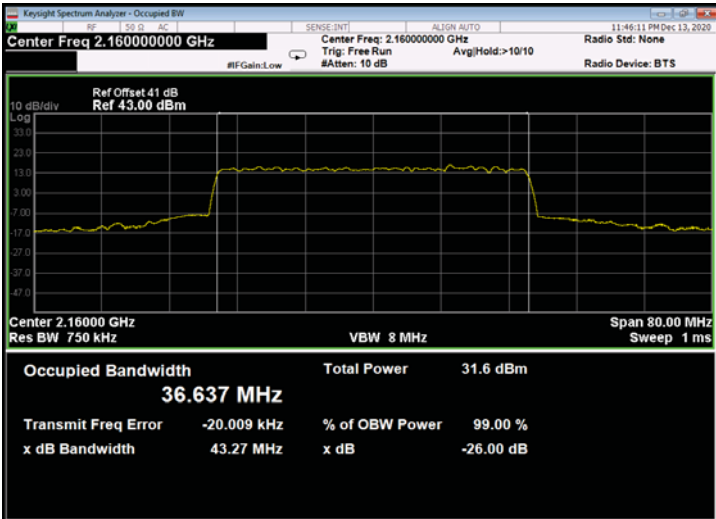


Figure 785: QPSK 40MHz B.W.; 2160.0MHz, 60kHz - Output

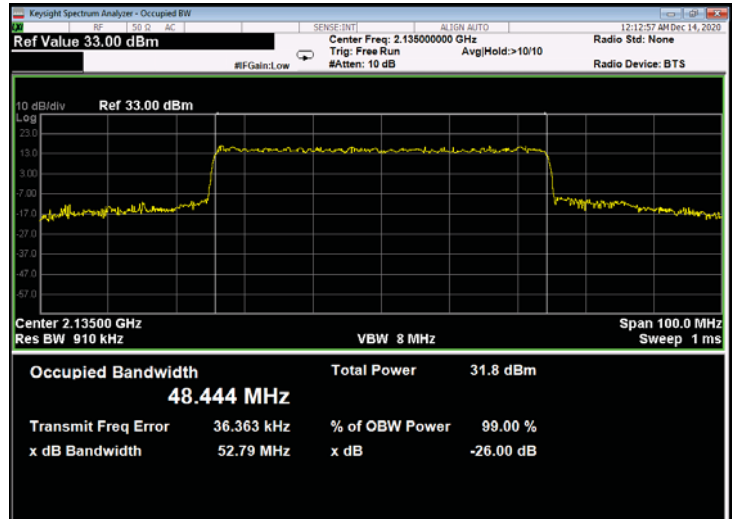


Figure 786: QPSK 50MHz B.W.; 2135.0MHz, 15kHz - Output

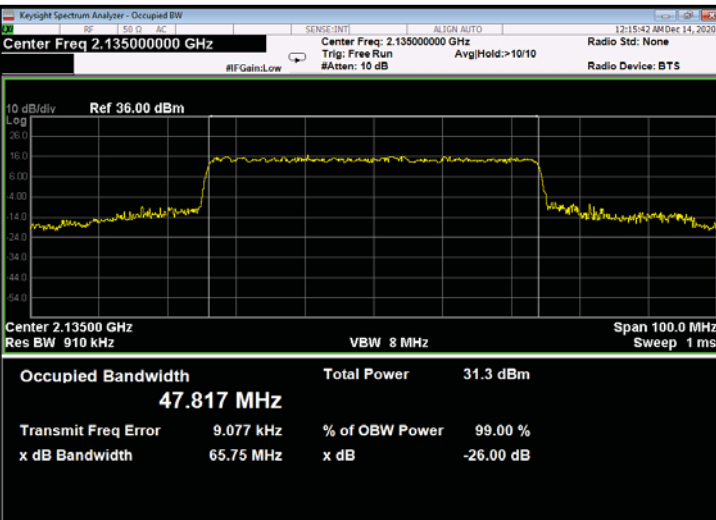


Figure 787: QPSK 50MHz B.W.; 2135.0MHz, 30kHz - Output

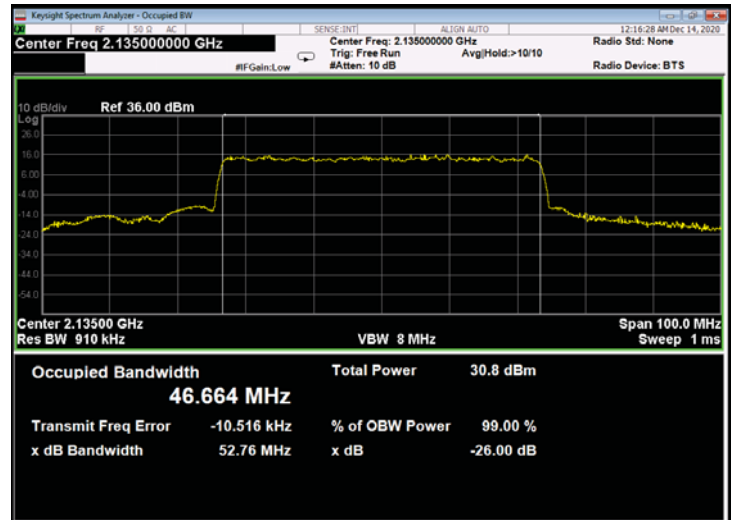


Figure 788: QPSK 50MHz B.W.; 2135.0MHz, 60kHz - Output

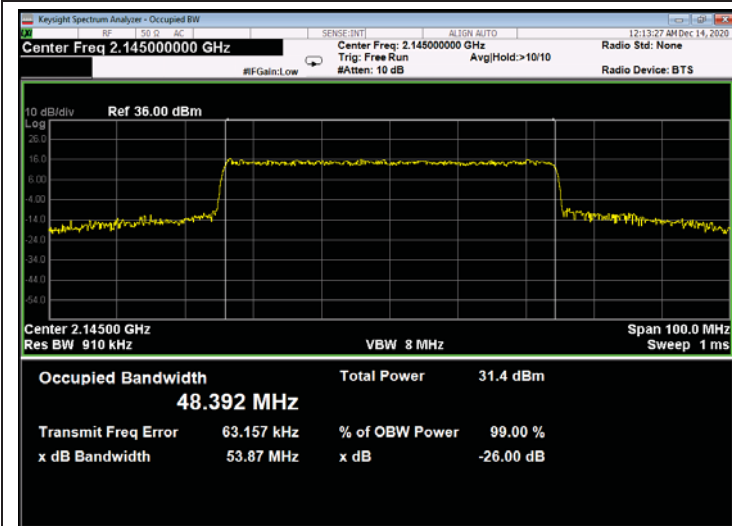


Figure 789: QPSK 50MHz B.W.; 2145.0MHz, 15kHz - Output

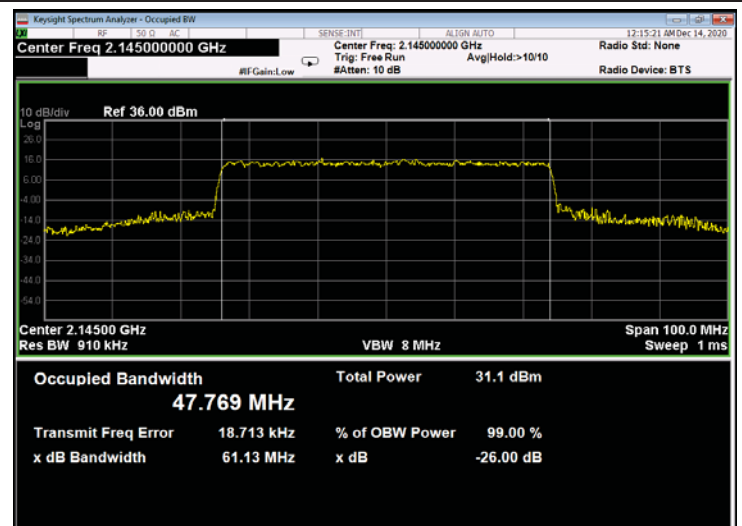


Figure 790: QPSK 50MHz B.W.; 2145.0MHz, 30kHz - Output

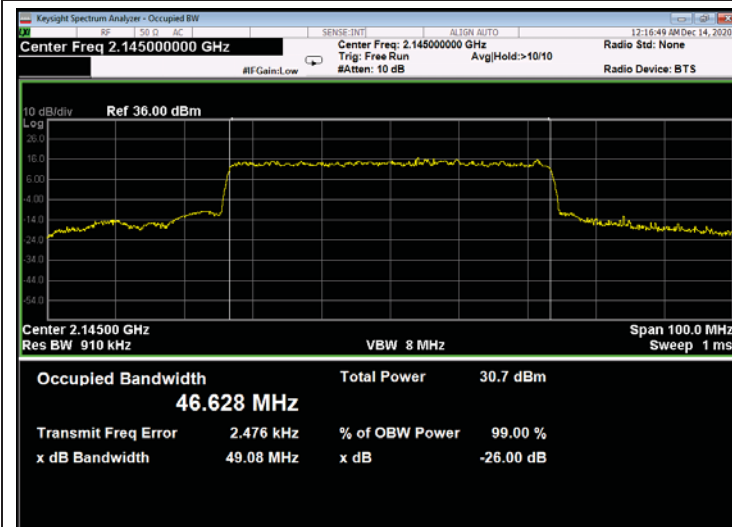


Figure 791: QPSK 50MHz B.W.; 2145.0MHz, 60kHz - Output

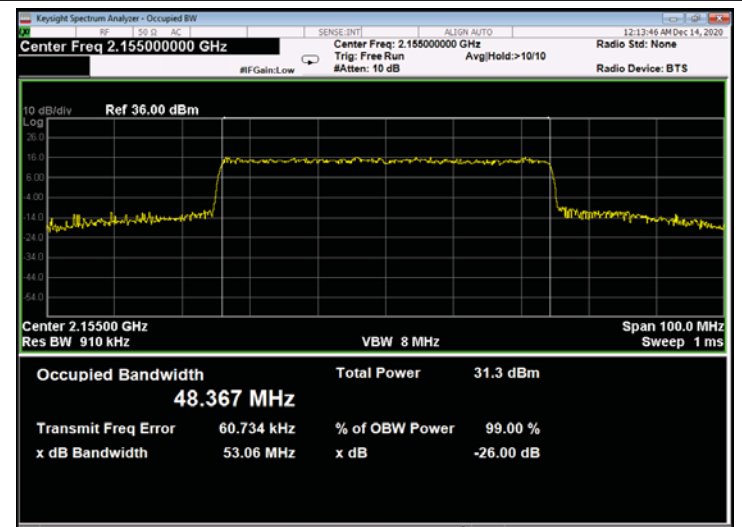


Figure 792: QPSK 50MHz B.W.; 2155.0MHz, 15kHz - Output

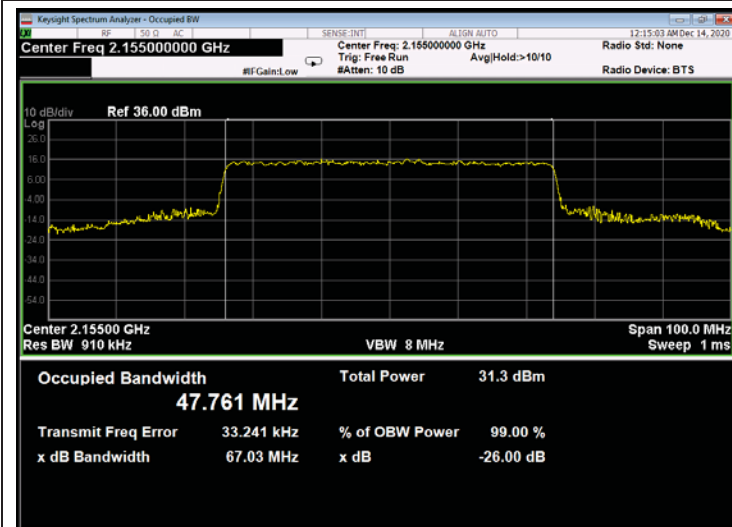


Figure 793: QPSK 50MHz B.W.; 2155.0MHz, 30kHz - Output

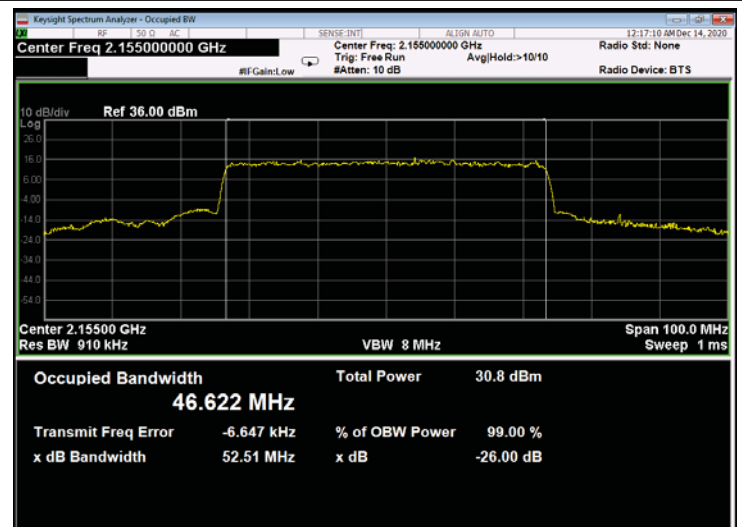


Figure 794: QPSK 50MHz B.W.; 2155.0MHz, 60kHz - Output

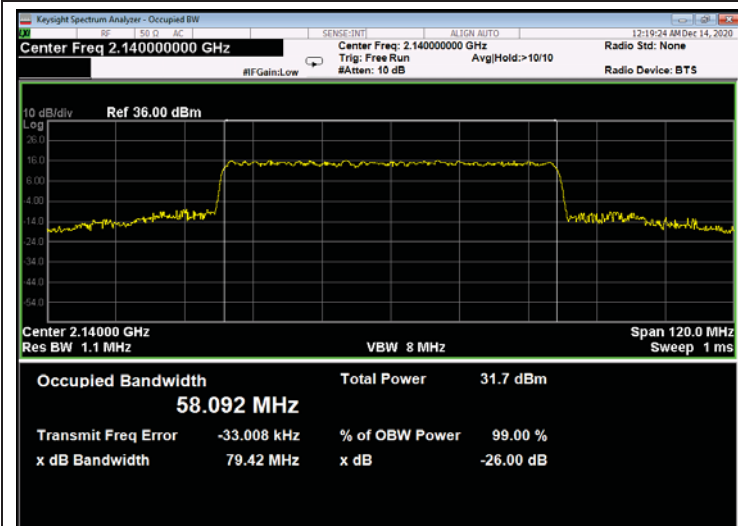


Figure 795: QPSK 60MHz B.W.;2140.0MHz, 30kHz - Output

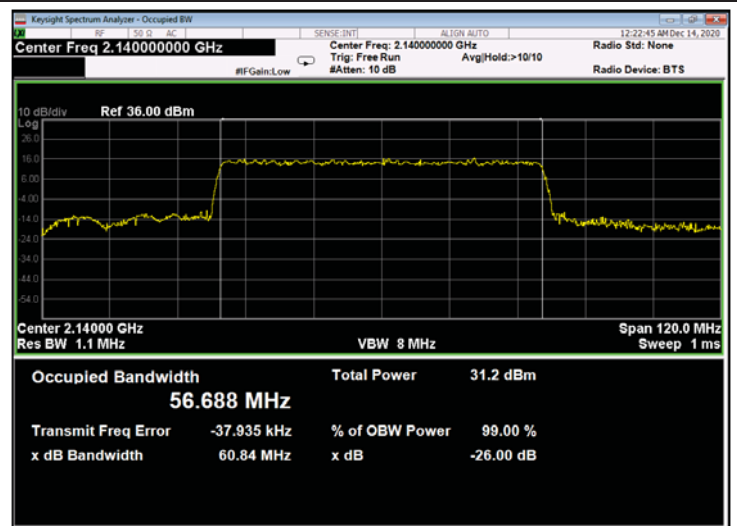


Figure 796: QPSK 60MHz B.W.; 2140.0MHz, 60kHz - Output

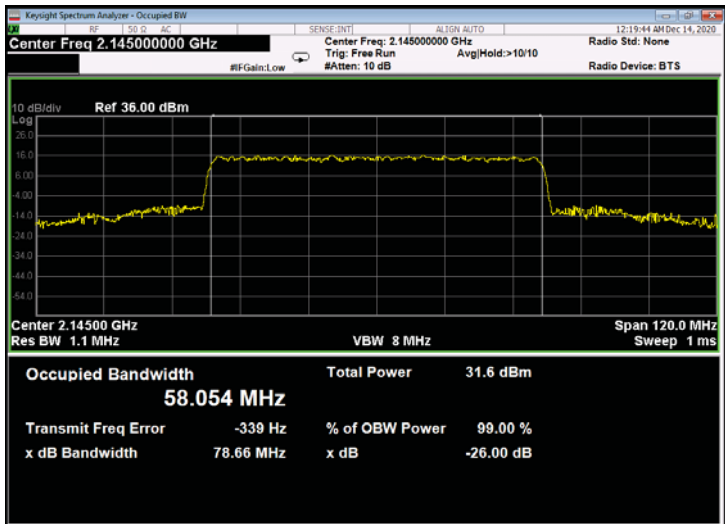


Figure 797: QPSK 60MHz B.W.; 2145.0MHz, 30kHz - Output

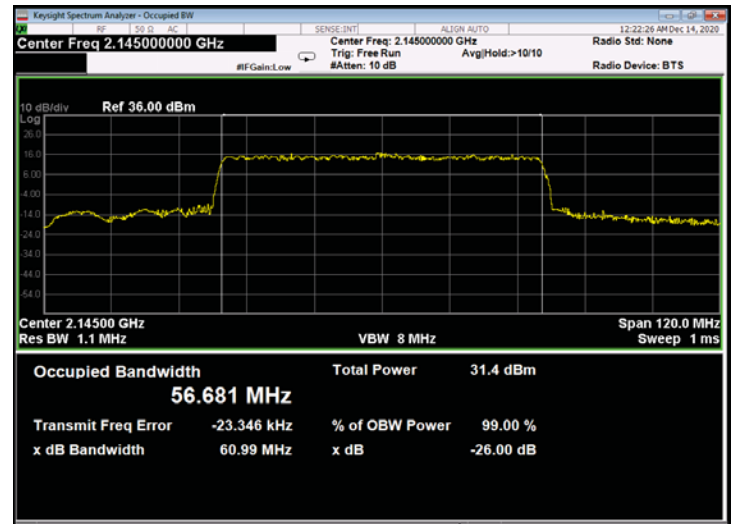


Figure 798: QPSK 60MHz B.W.; 2145.0MHz, 60kHz - Output

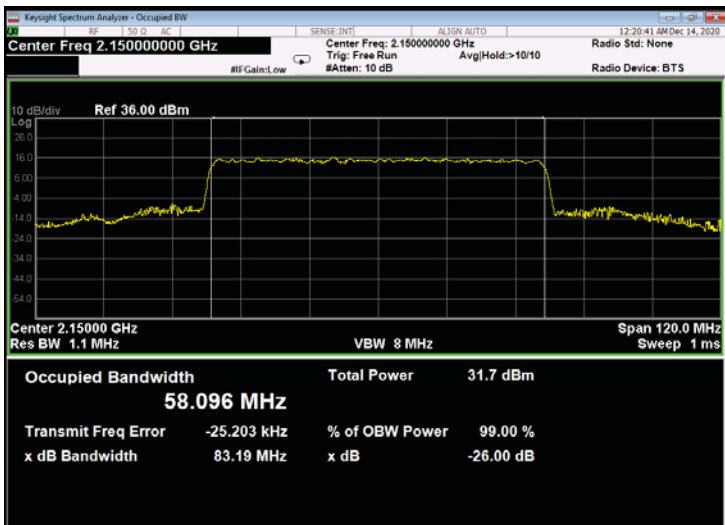


Figure 799: QPSK 60MHz B.W.; 2150.0MHz, 30kHz - Output

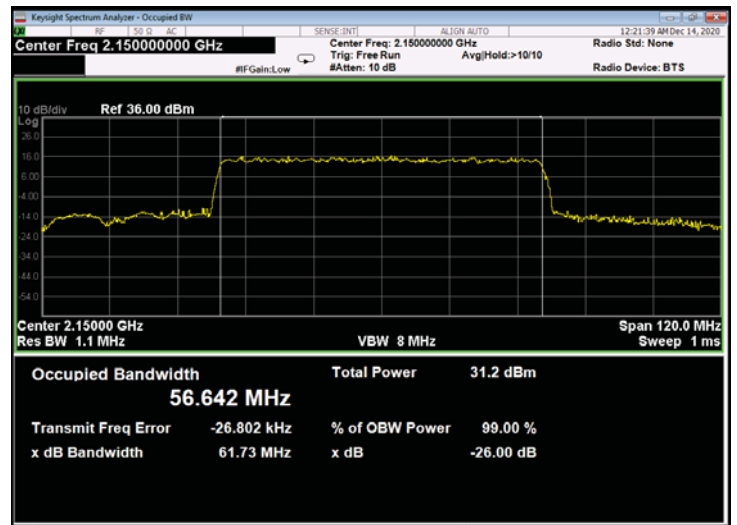


Figure 800: QPSK 60MHz B.W.; 2150.0MHz, 60kHz - Output



### 5.5 Test Equipment Used; Occupied Bandwidth

Instrument	Manufacturer	Model	Serial Number	Calibration	
				Last Calibration Date	Next Calibration Due
EXA Signal Analyzer	Agilent Technologies	N9010A	MY52220686	November 28, 2018	May 30, 2021
Vector Signal Generator	R&S	SMBV100B	1423.1003K02-101470-XE	October 2, 2019	October 2, 2022
40 dB Attenuator	Weinschel	WA 39-40-33	A1323	July 7, 2020	July 31, 2021
RF Cable	Huber Suner	Sucofelex	27504/4PEA	August 23, 2020	August 31, 2021

**Table 26 Test Equipment Used**



## 6 Spurious Emissions at Antenna Terminals

### 6.1 Test Specification

FCC Part 27, Subpart C, Sections 27.53(a)(1)

### 6.2 Test Procedure

(Temperature (19°C)/ Humidity (56%RH))

The E.U.T. antenna terminal was connected to the spectrum analyzer through an external attenuator and an appropriate coaxial cable (max loss 44.0 dB).

The evaluation was performed in the frequency band from 9.0kHz-22.0GHz.

### 6.3 Test Limit

The power of any emission outside of the authorized operating frequency ranges(2110-2200MHz) must be attenuated below the transmitting power (P) by a factor of at least  $43 + \log (P)$  dB, yielding  $-13\text{dBm}$ .

### 6.4 Test Results

JUDGEMENT: Passed

See additional information in *Figure 801* to *Figure 1064*.

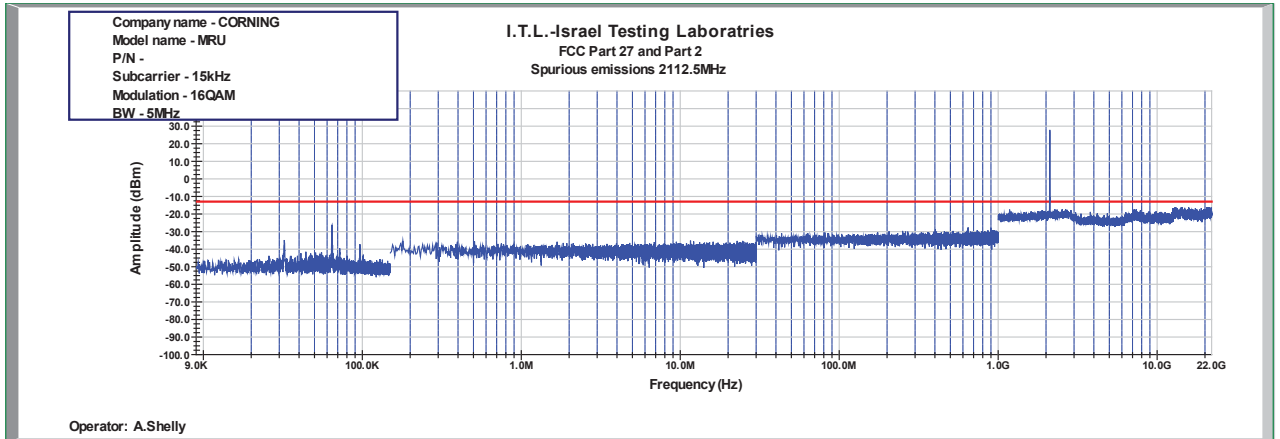


Figure 801: Spurious Emissions at Antenna Terminal 16QAM 5MHz B.W.; 2112.5MHz, 15kHz

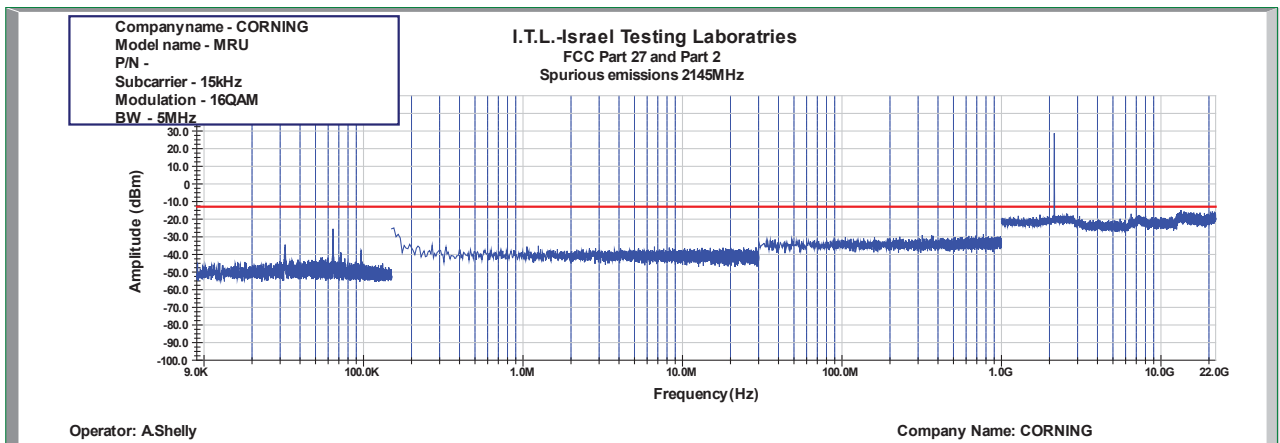


Figure 802: Spurious Emissions at Antenna Terminal 16QAM 5MHz B.W.; 2145MHz, 15kHz

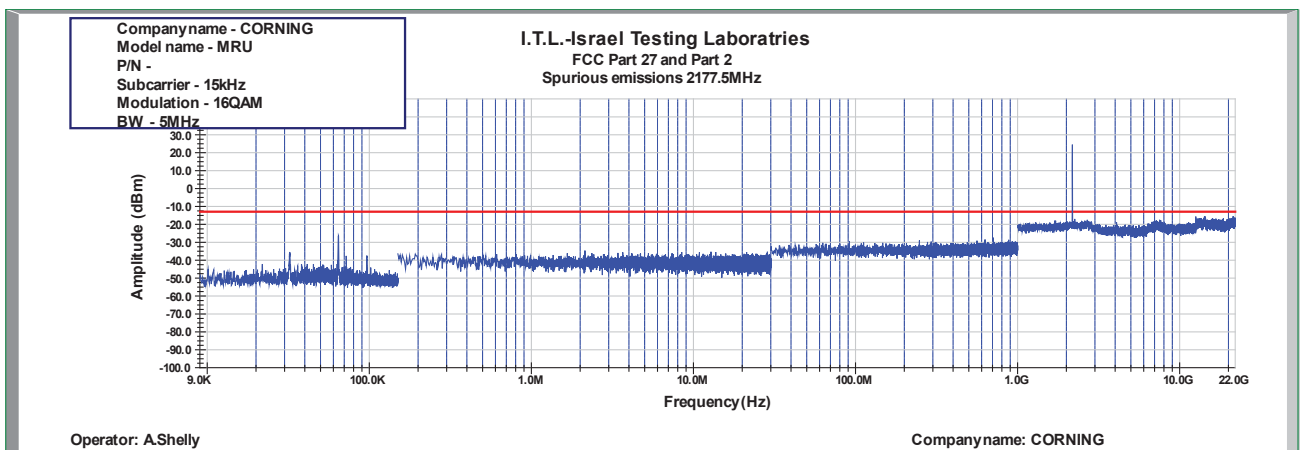


Figure 803: Spurious Emissions at Antenna Terminal 16QAM 5MHz B.W.; 2177.5MHz, 15kHz

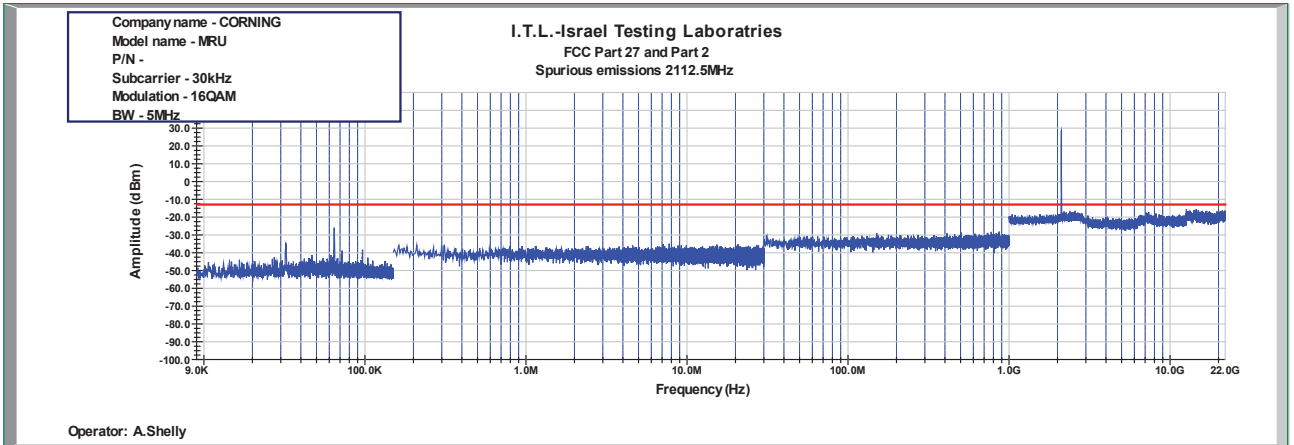


Figure 804: Spurious Emissions at Antenna Terminal 16QAM 5MHz B.W.; 2112.5MHz, 30kHz

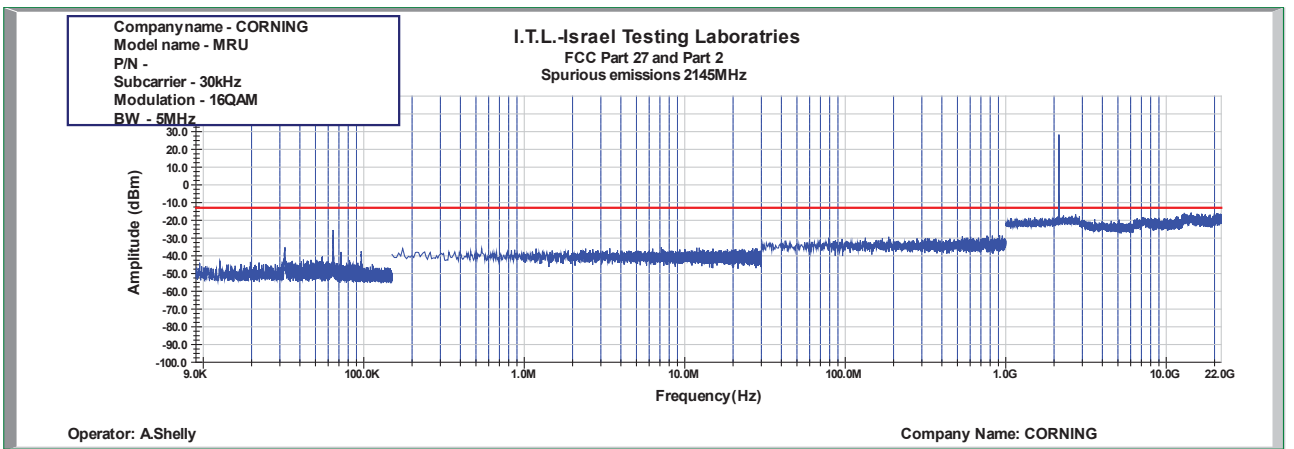


Figure 805: Spurious Emissions at Antenna Terminal 16QAM 5MHz B.W.; 2145.0MHz, 30kHz

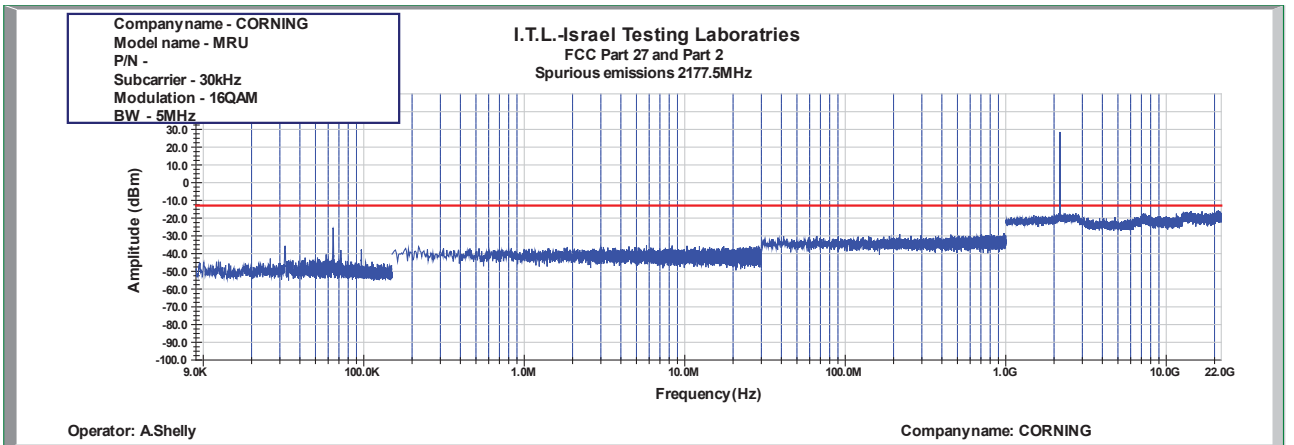


Figure 806: Spurious Emissions at Antenna Terminal 16QAM 5MHz; 2177.5MHz, 30kHz

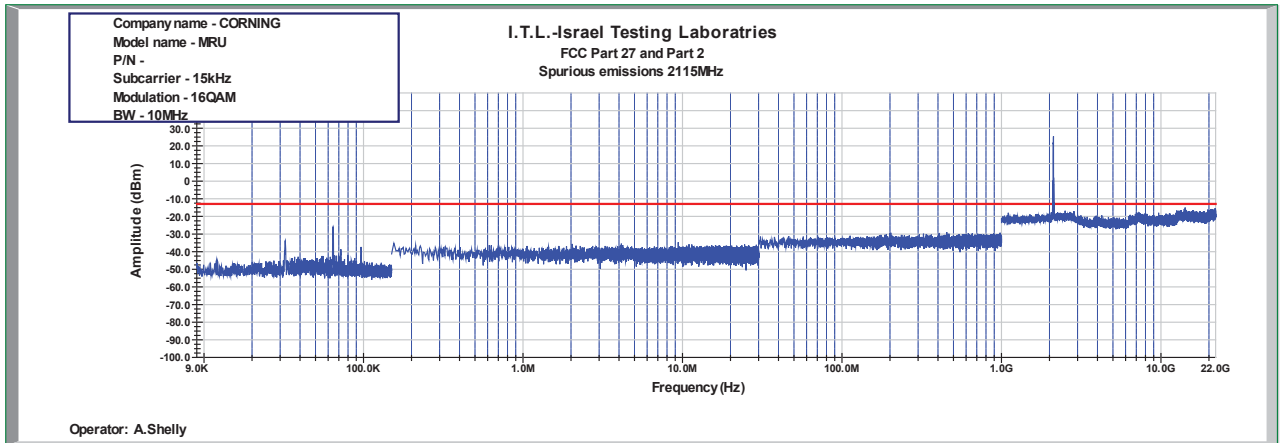


Figure 807: Spurious Emissions at Antenna Terminal 16QAM 10MHz B.W.; 2115.0MHz, 15kHz

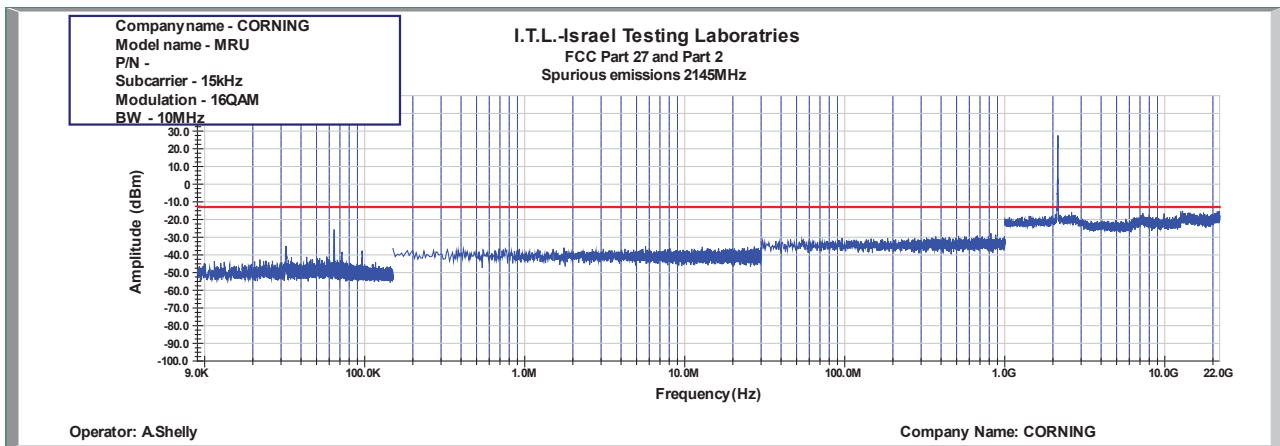


Figure 808: Spurious Emissions at Antenna Terminal 16QAM 10MHz B.W.; 2145.0MHz, 15kHz

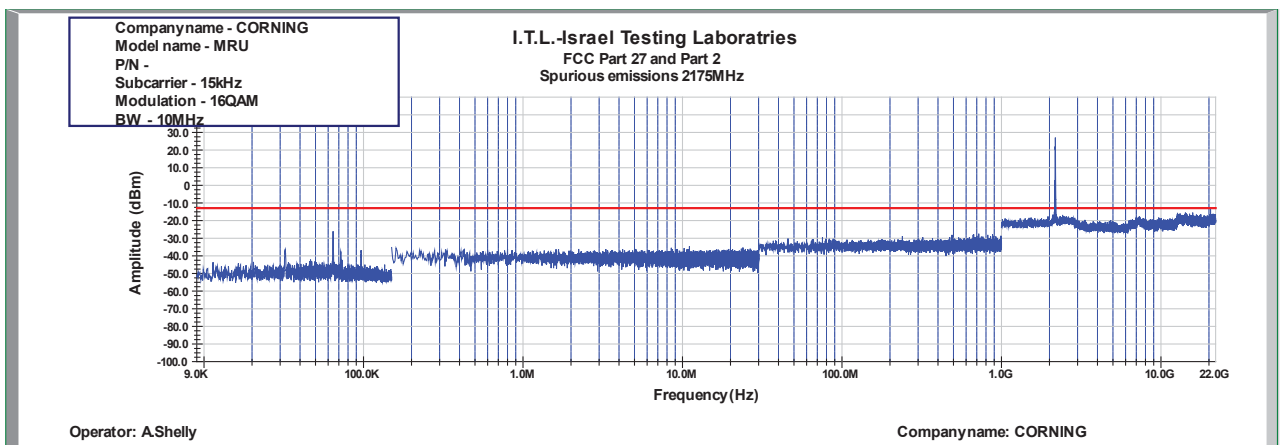


Figure 809: Spurious Emissions at Antenna Terminal 16QAM 10MHz B.W.; 2175.0MHz, 15kHz



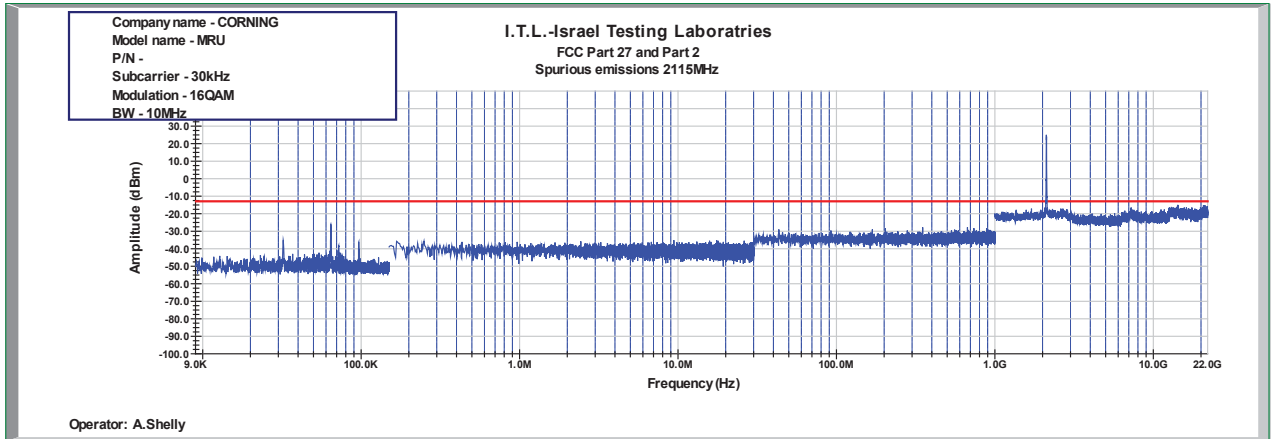


Figure 810: Spurious Emissions at Antenna Terminal 16QAM 10MHz B.W.; 2115.0MHz, 30kHz

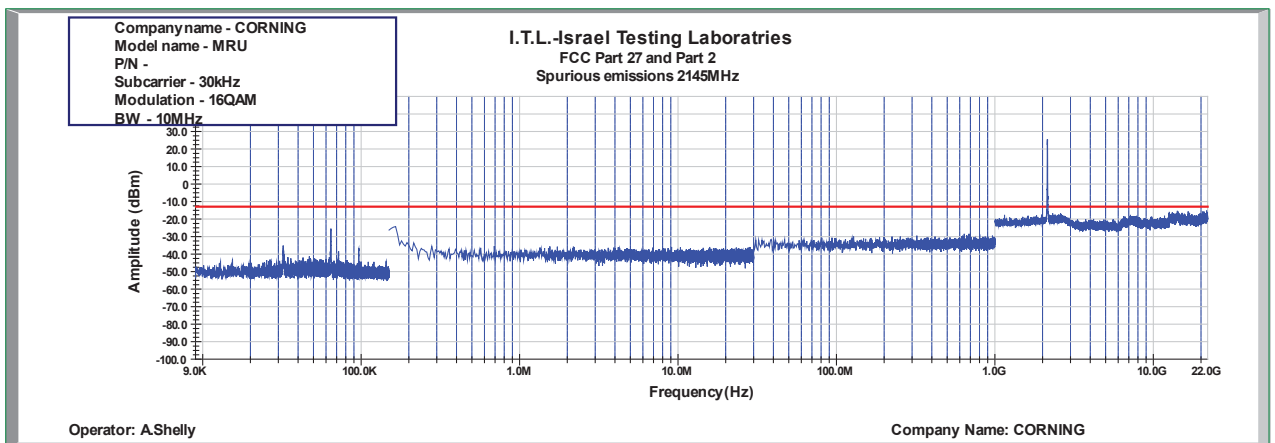


Figure 811: Spurious Emissions at Antenna Terminal 16QAM 10MHz B.W.; 2145.0MHz, 30kHz

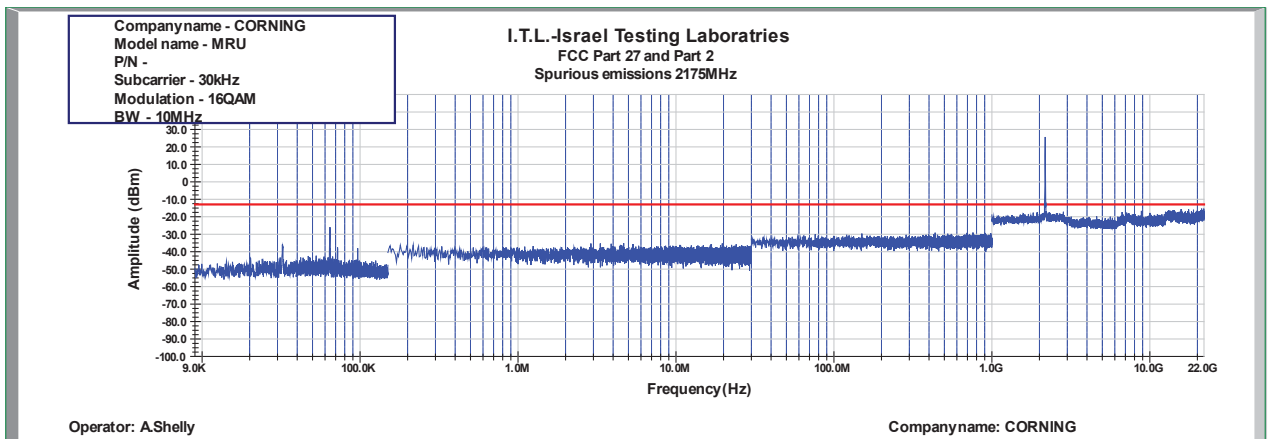


Figure 812: Spurious Emissions at Antenna Terminal 16QAM 10MHz B.W.; 2175.0MHz, 30kHz

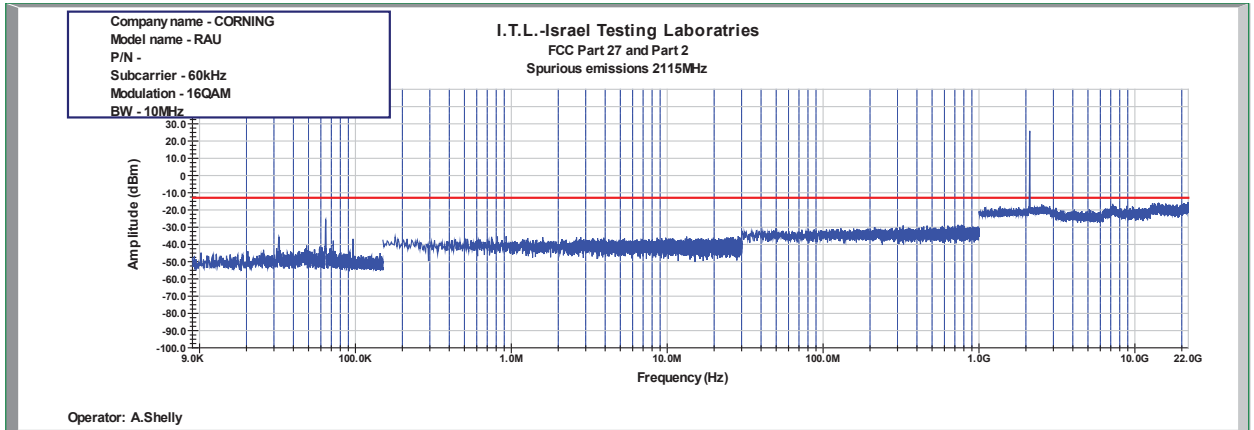


Figure 813: Spurious Emissions at Antenna Terminal 16QAM 10MHz B.W.; 2115.0MHz, 60kHz

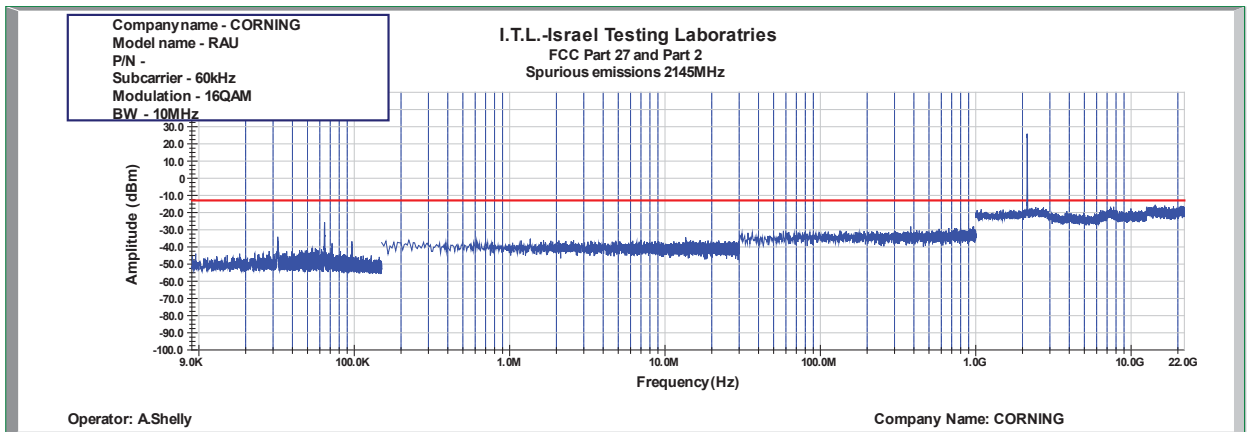


Figure 814: Spurious Emissions at Antenna Terminal 16QAM 10MHz B.W.; 2145.0MHz, 60kHz

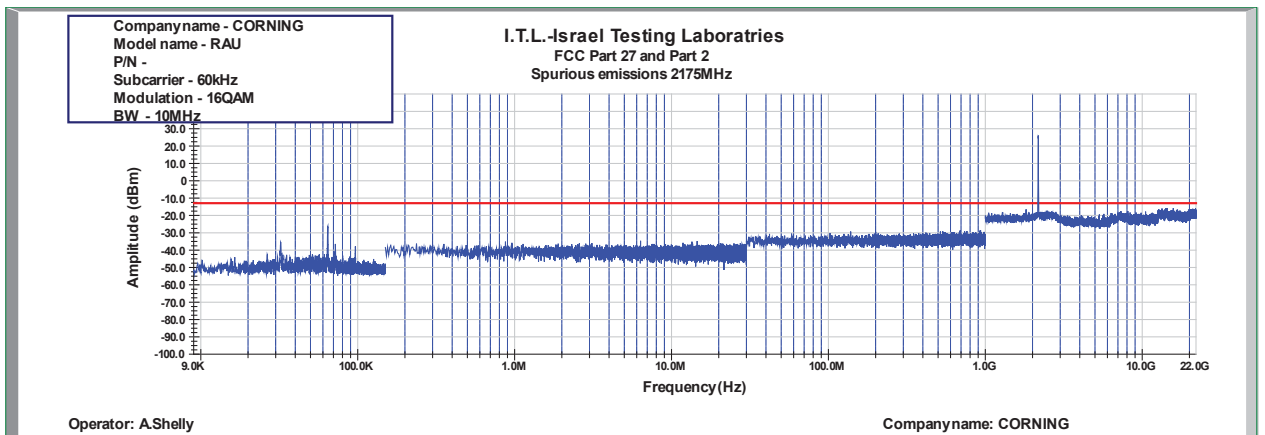


Figure 815: Spurious Emissions at Antenna Terminal 16QAM 10MHz B.W.; 2175.0MHz, 60kHz