

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

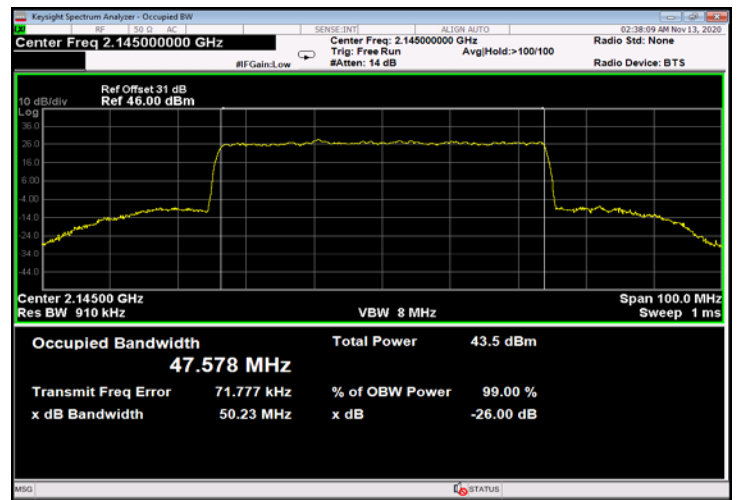


Figure 790: QPSK 50MHz B.W.; 2145.0MHz, 30kHz - Output

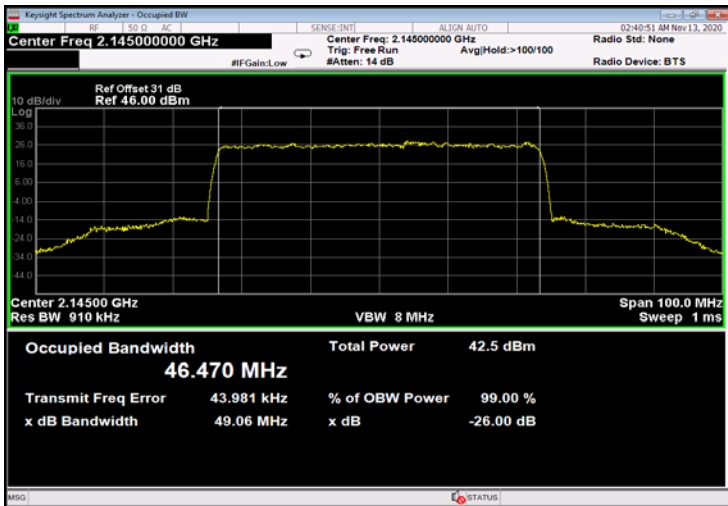


Figure 791: QPSK 50MHz B.W.; 2145.0MHz, 60kHz - Output

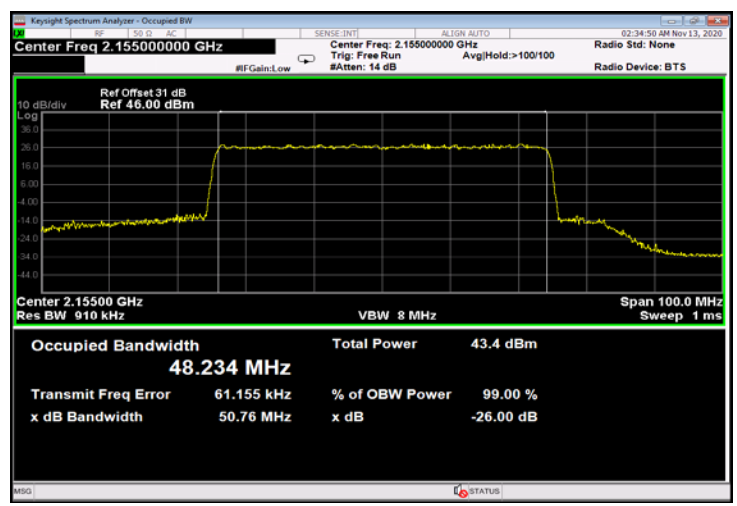


Figure 792: QPSK 50MHz B.W.; 2155.0MHz, 15kHz - Output

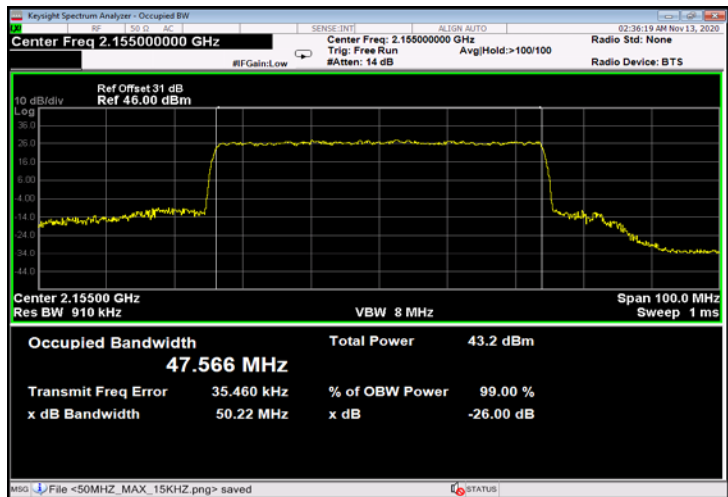


Figure 793: QPSK 50MHz B.W.; 2155.0MHz, 30kHz - Output

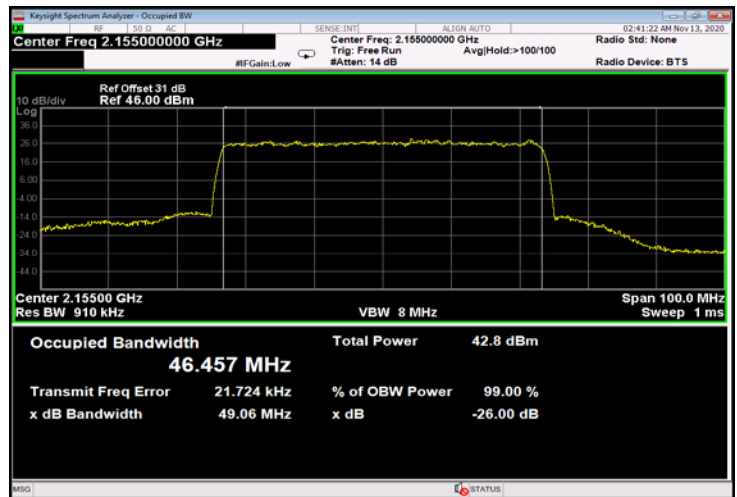


Figure 794: QPSK 50MHz B.W.; 2155.0MHz, 60kHz - Output

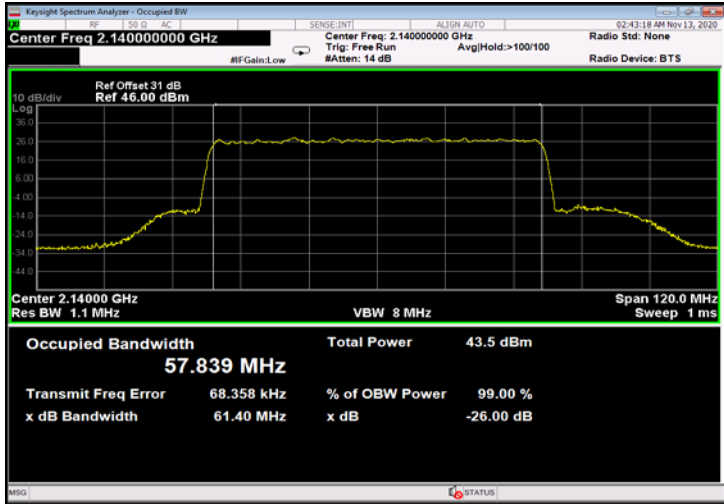


Figure 795: QPSK 60MHz B.W.; 2140.0MHz, 30kHz - Output

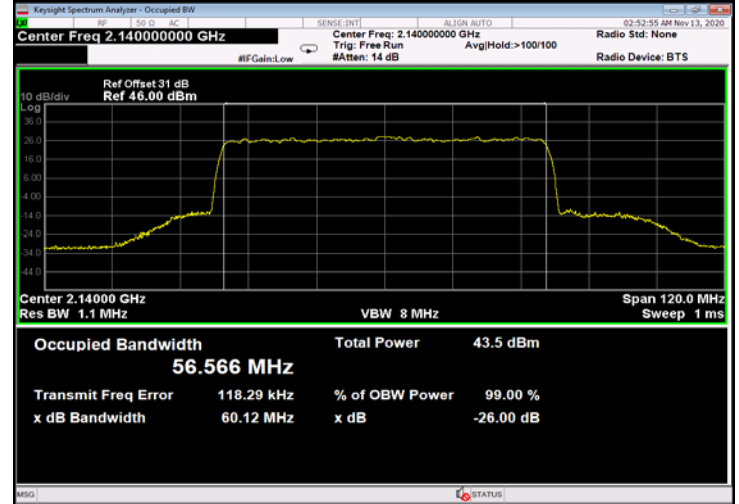


Figure 796: QPSK 60MHz B.W.; 2140.0MHz, 60kHz - Output

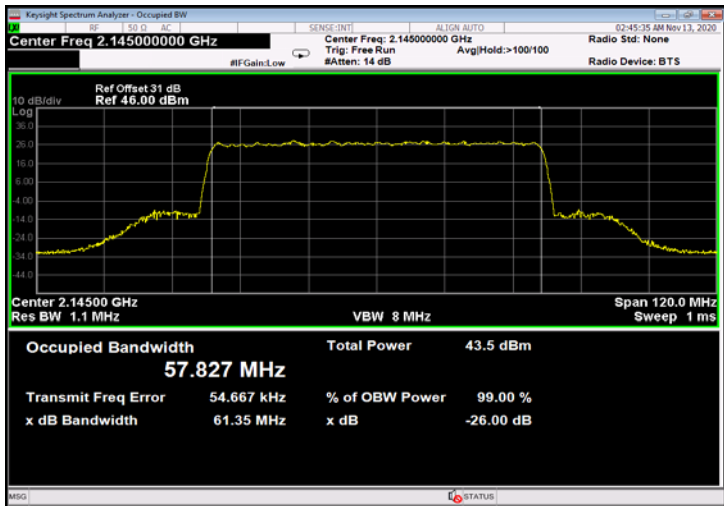


Figure 797: QPSK 60MHz B.W.; 2145.0MHz, 30kHz - Output

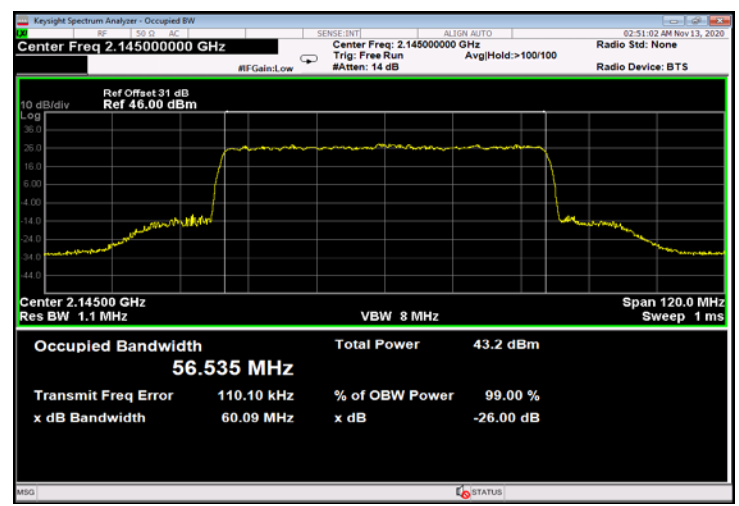


Figure 798: QPSK 60MHz B.W.; 2145.0MHz, 60kHz - Output

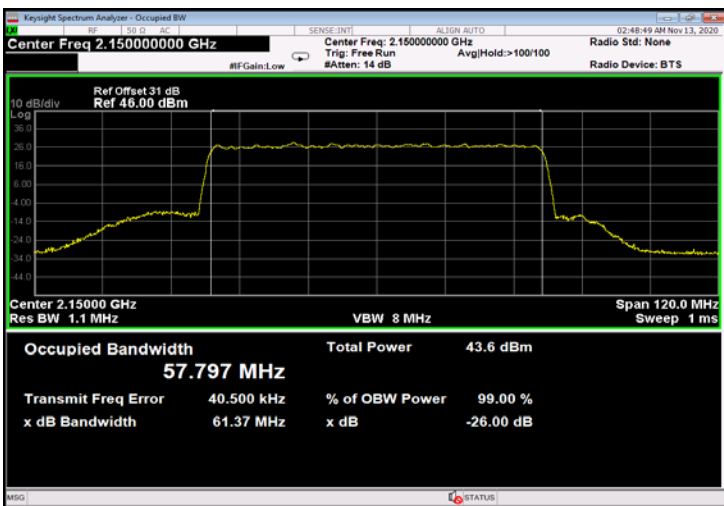


Figure 799: QPSK 60MHz B.W.; 2150.0MHz, 30kHz - Output

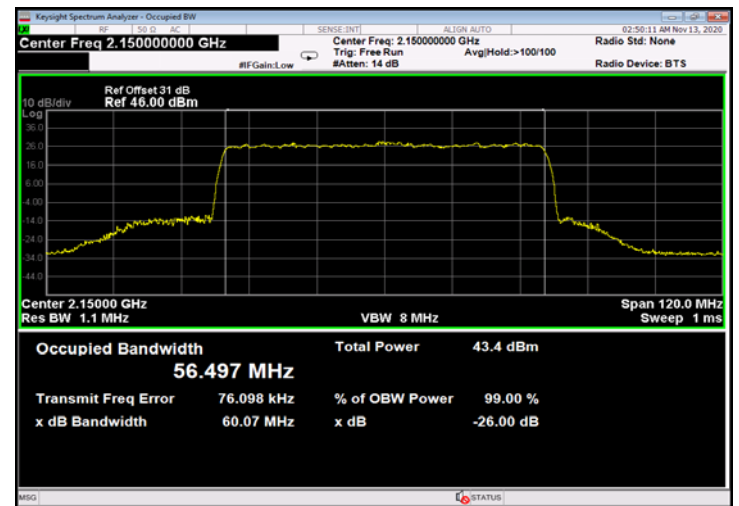


Figure 800: QPSK 60MHz B.W.; 2150.0MHz, 60kHz - Output



### 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	November 28, 2020
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 42.0 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(2110-2180MHz) 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*.

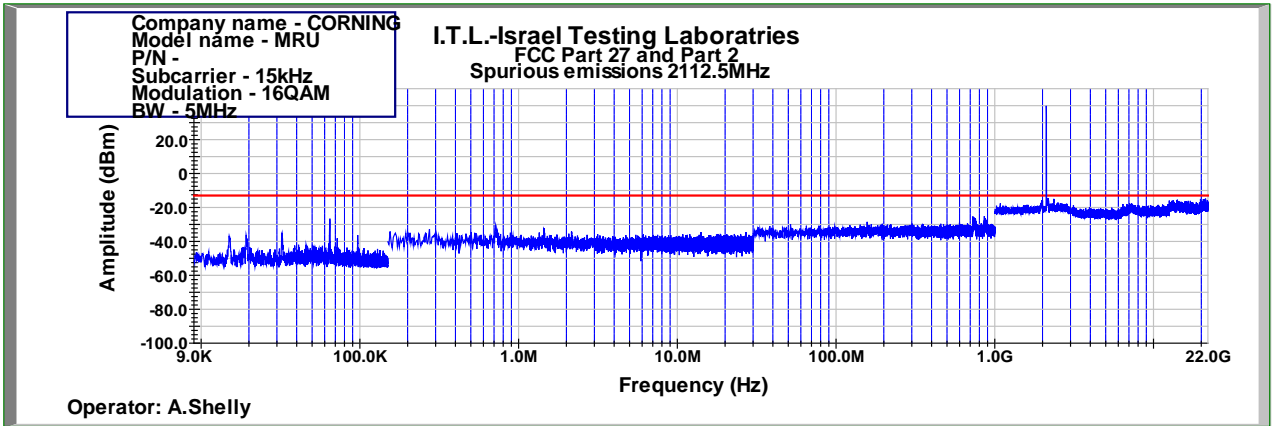


Figure 801: Spurious Emissions at Antenna Terminal 16QAM 5MHz B.W.; 2112.5MHz, 15kHz

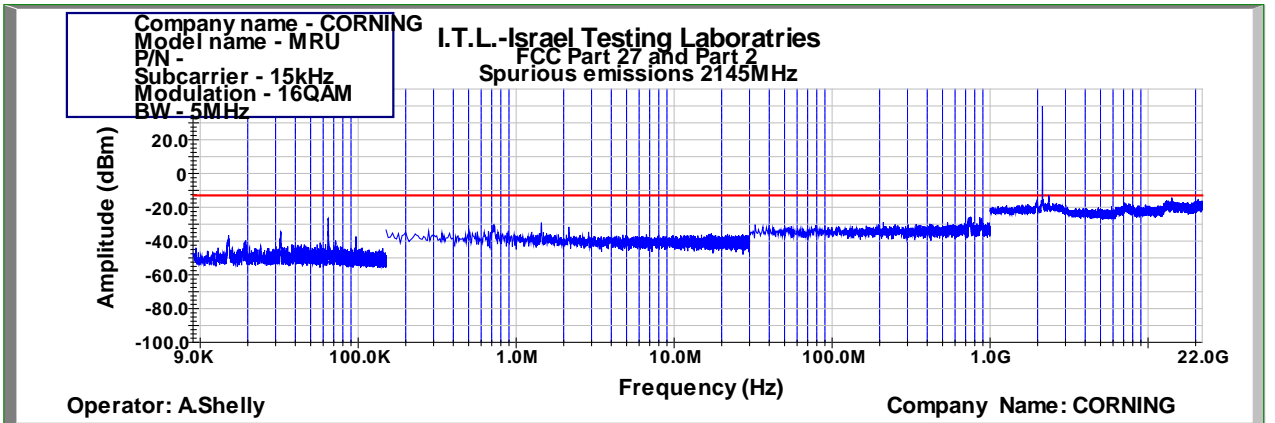


Figure 802: Spurious Emissions at Antenna Terminal 16QAM 5MHz B.W.; 2145MHz, 15kHz

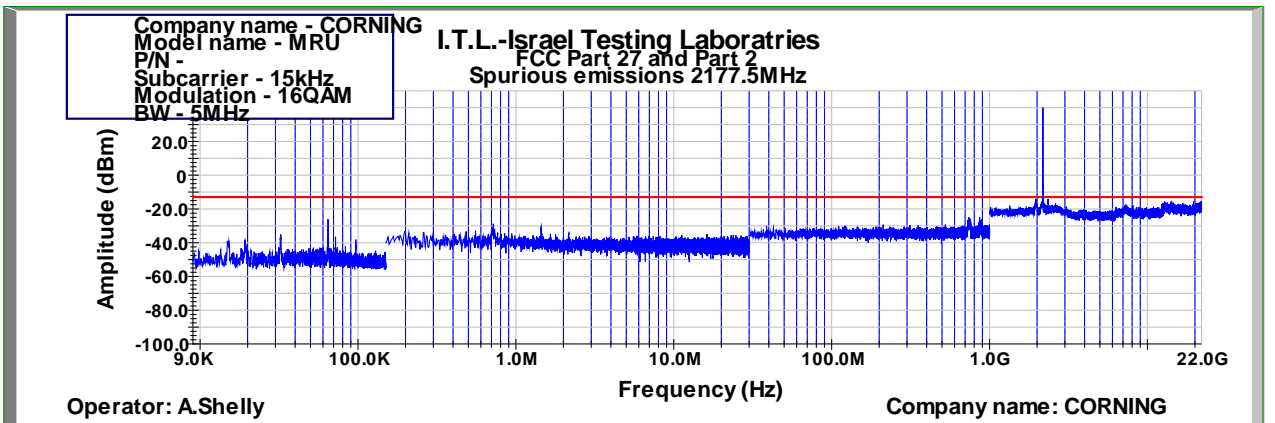


Figure 803: Spurious Emissions at Antenna Terminal 16QAM 5MHz B.W.; 2177.5MHz, 15kHz

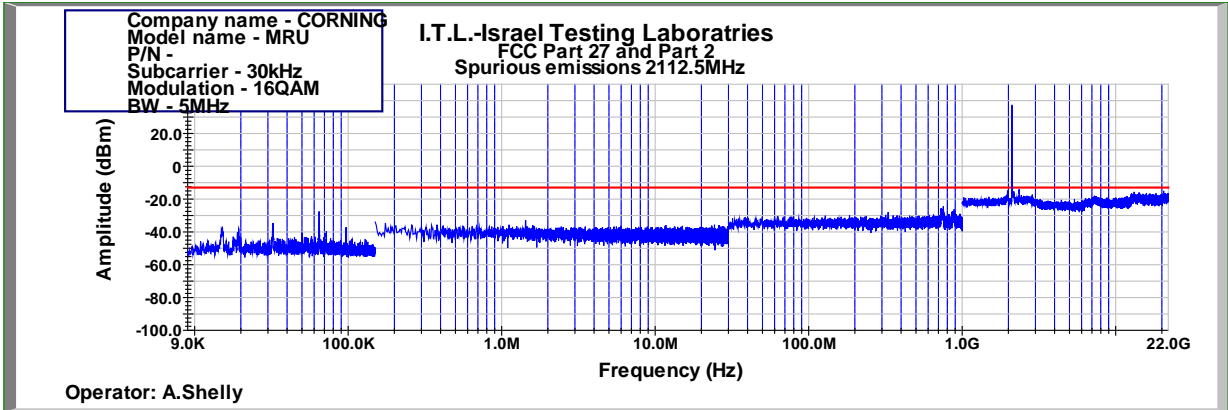


Figure 804: Spurious Emissions at Antenna Terminal 16QAM 5MHz B.W.; 2112.5MHz, 30kHz

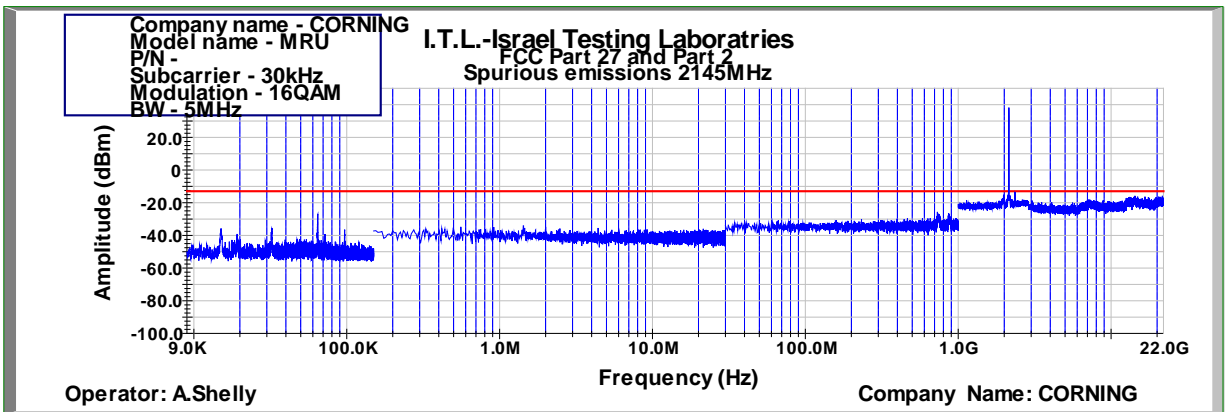


Figure 805: Spurious Emissions at Antenna Terminal 16QAM 5MHz B.W.; 2145.0MHz, 30kHz

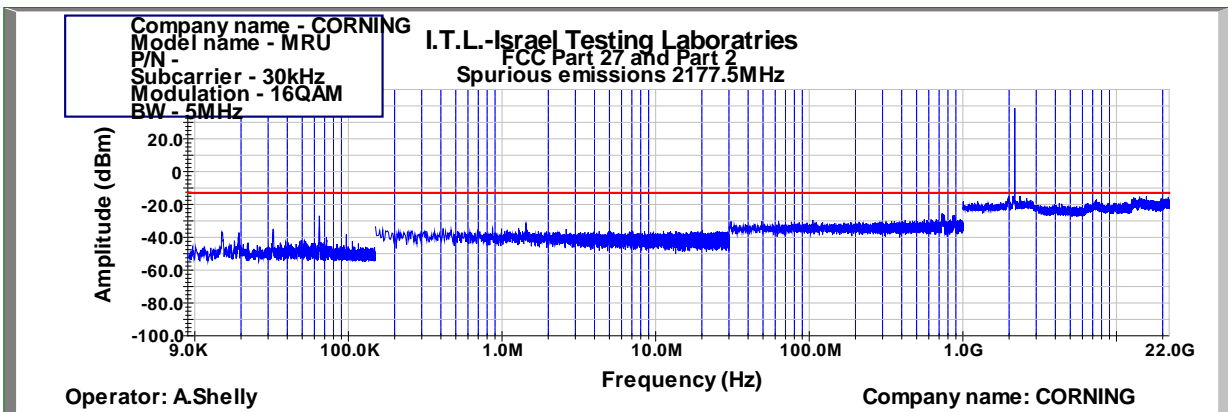


Figure 806: Spurious Emissions at Antenna Terminal 16QAM 5MHz; 2177.5MHz, 30kHz

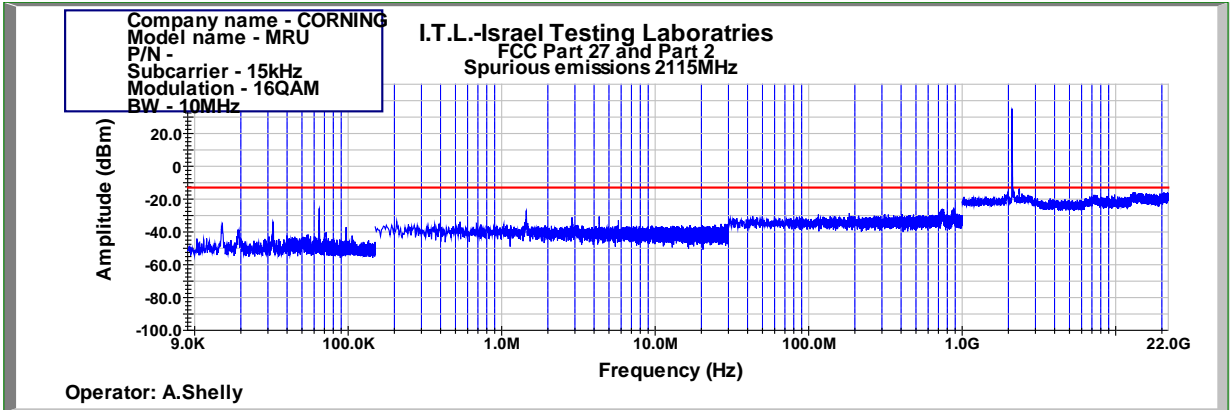


Figure 807: Spurious Emissions at Antenna Terminal 16QAM 10MHz B.W.; 2115.00MHz, 15kHz

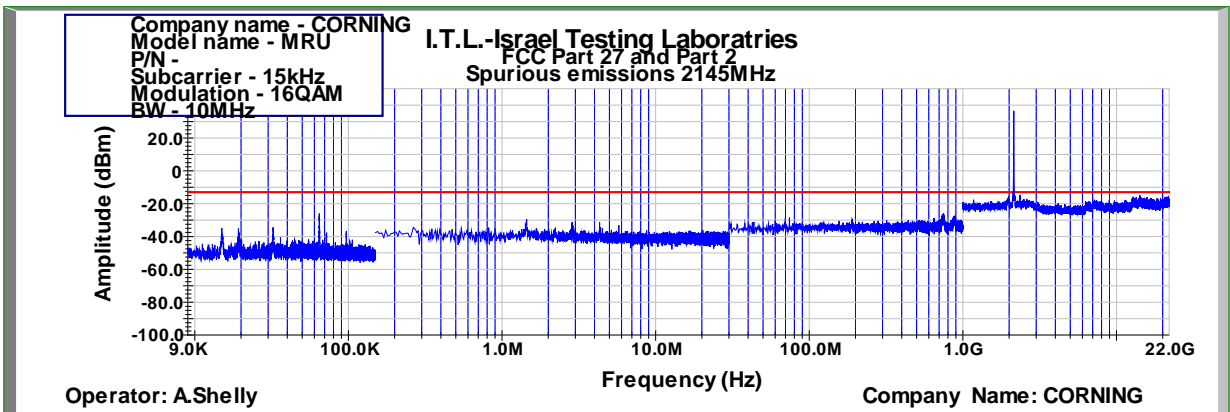


Figure 808: Spurious Emissions at Antenna Terminal 16QAM 10MHz B.W.; 2145.00MHz, 15kHz

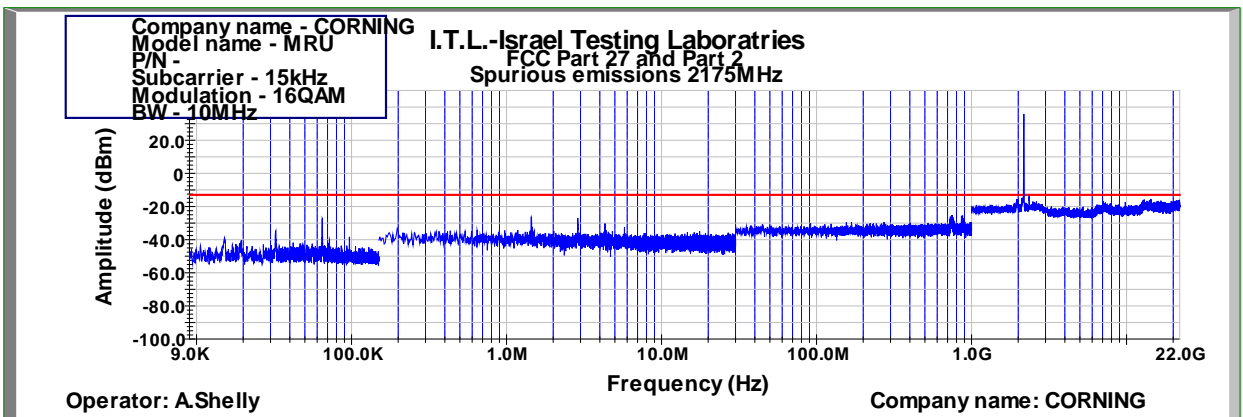


Figure 809: Spurious Emissions at Antenna Terminal 16QAM 10MHz B.W.; 2175.00MHz, 15kHz



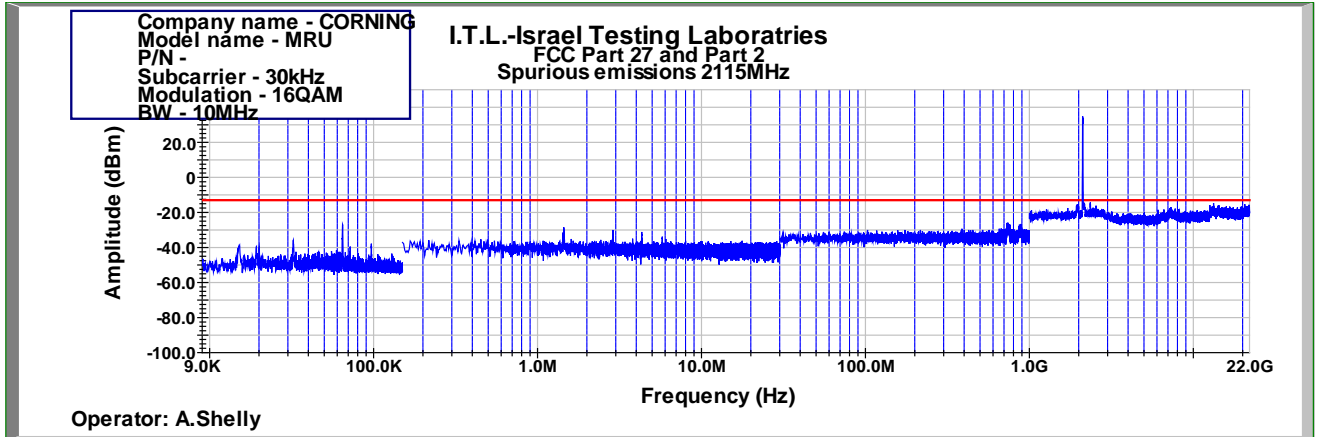


Figure 810: Spurious Emissions at Antenna Terminal 16QAM 10MHz B.W.; 2115.0MHz, 30kHz

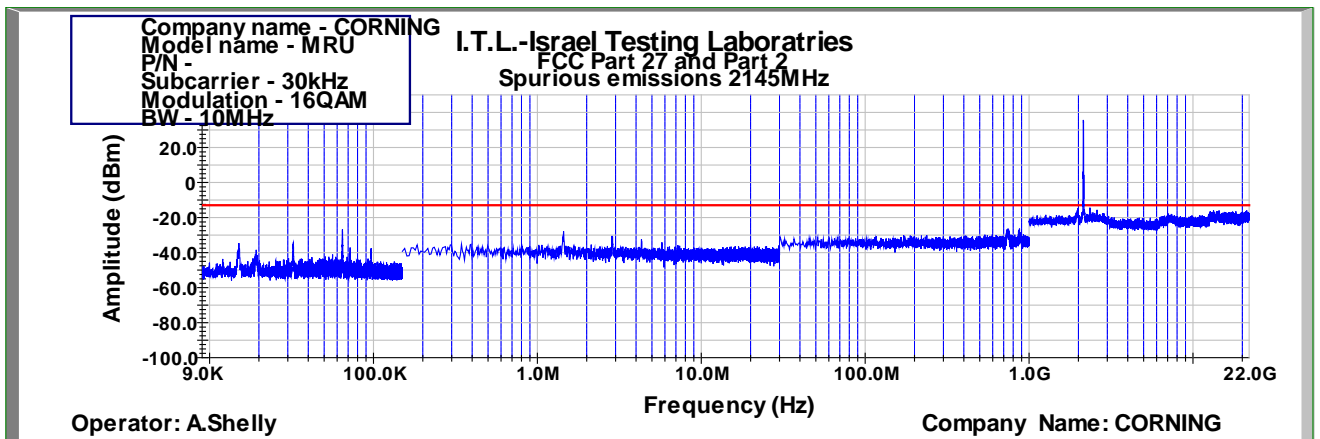


Figure 811: Spurious Emissions at Antenna Terminal 16QAM 10MHz B.W.; 2145.0MHz, 30kHz

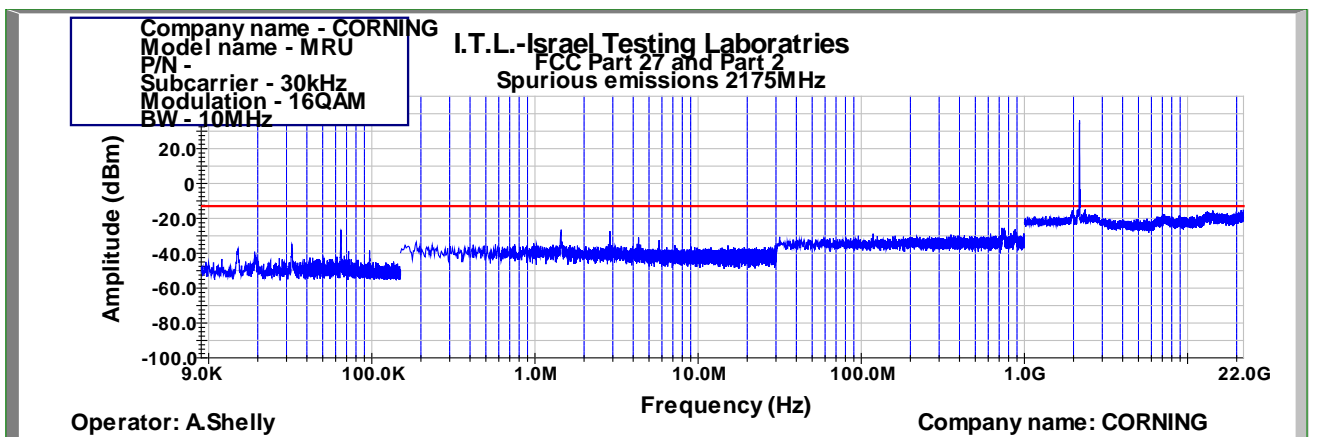


Figure 812: Spurious Emissions at Antenna Terminal 16QAM 10MHz B.W.; 2175.0MHz, 30kHz



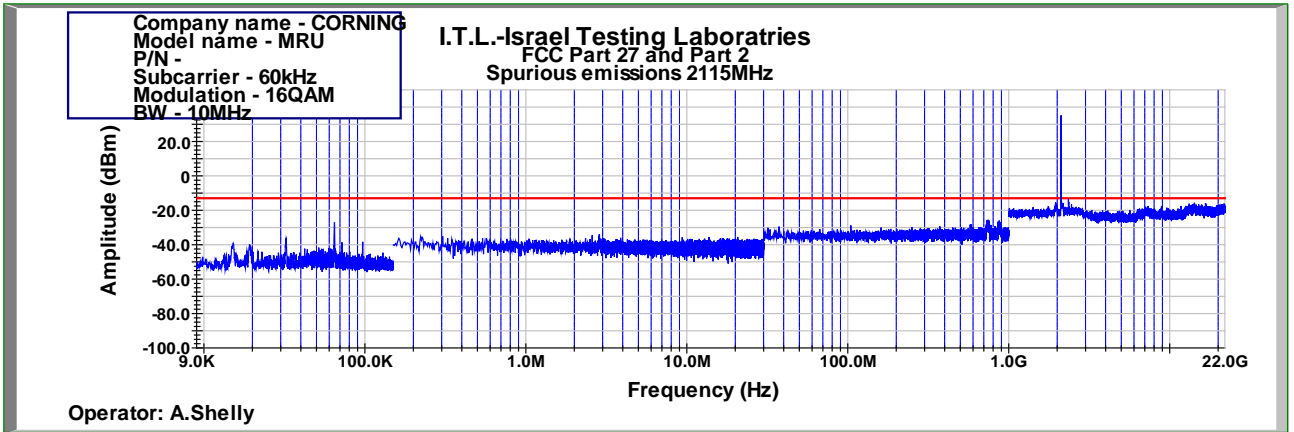


Figure 813: Spurious Emissions at Antenna Terminal 16QAM 10MHz B.W.; 2115.0MHz, 60kHz

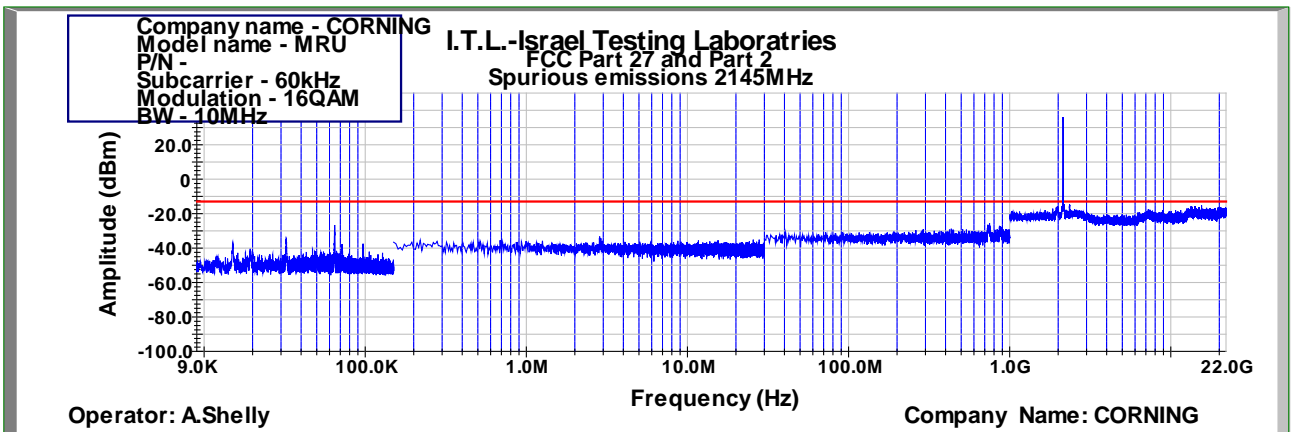


Figure 814: Spurious Emissions at Antenna Terminal 16QAM 10MHz B.W.; 2145.0MHz, 60kHz

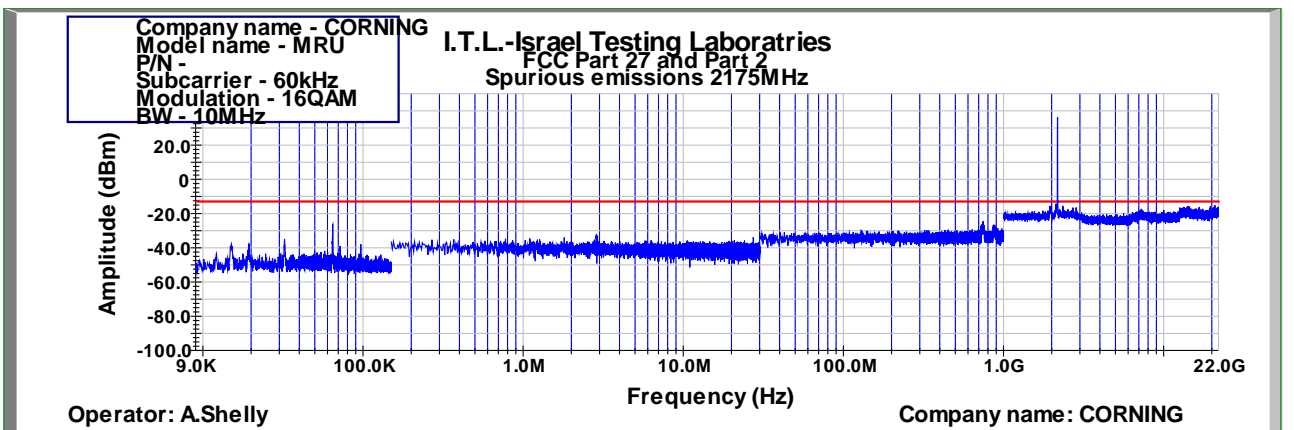


Figure 815: Spurious Emissions at Antenna Terminal 16QAM 10MHz B.W.; 2175.0MHz, 60kHz

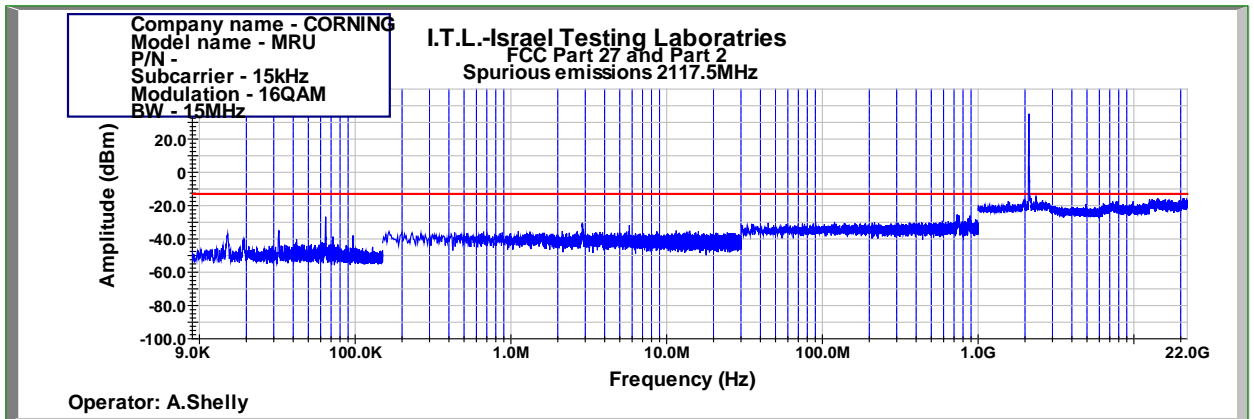


Figure 816: Spurious Emissions at Antenna Terminal 16QAM 15MHz B.W.; 2117.5MHz, 15kHz

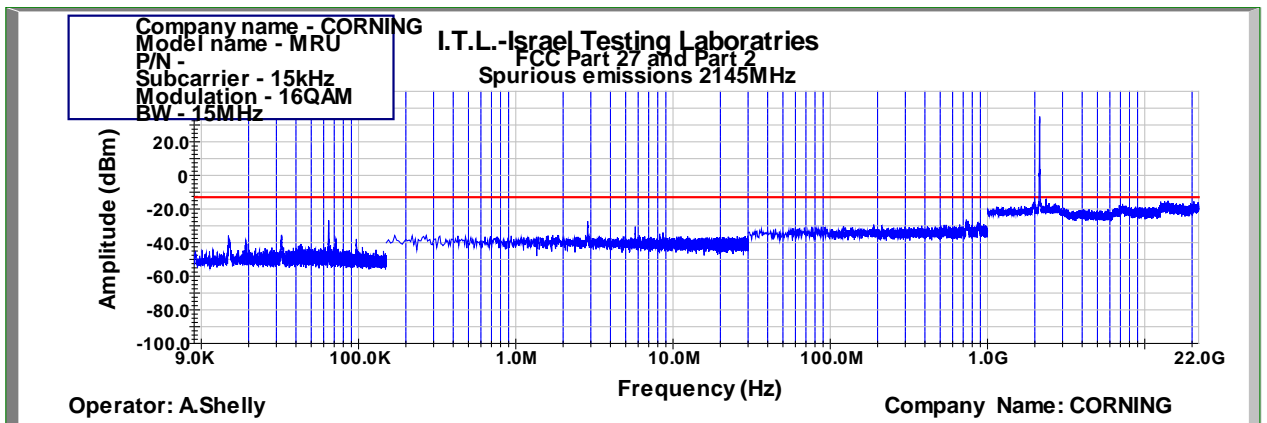


Figure 817: Spurious Emissions at Antenna Terminal 16QAM 15MHz B.W.; 2145.0MHz, 15kHz

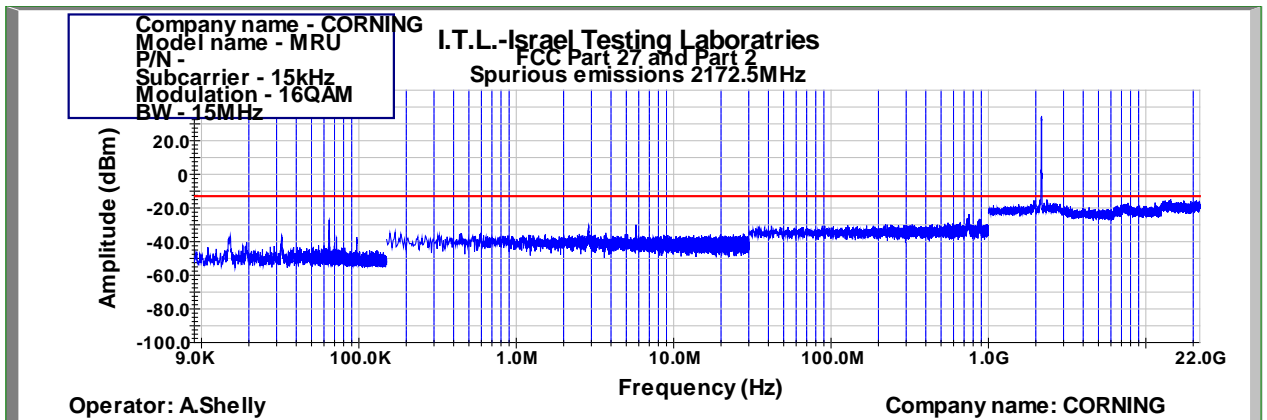


Figure 818: Spurious Emissions at Antenna Terminal 16QAM 15MHz B.W.; 2172.5MHz, 15kHz

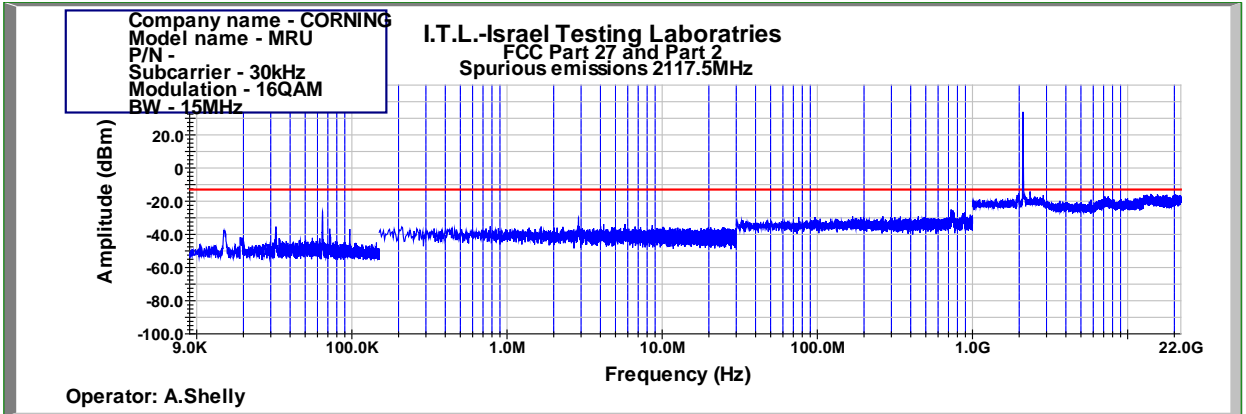


Figure 819: Spurious Emissions at Antenna Terminal 16QAM 15MHz B.W.; 2117.5MHz, 30kHz

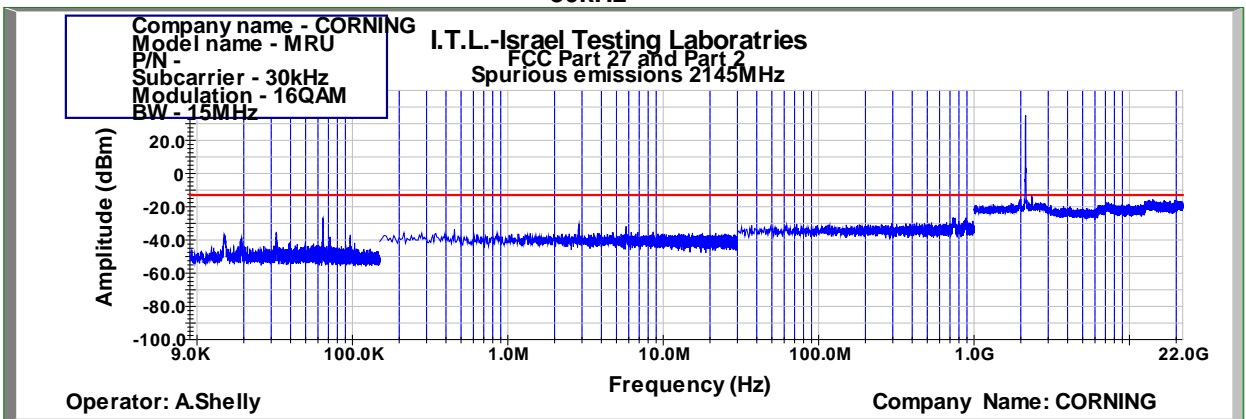


Figure 820: Spurious Emissions at Antenna Terminal 16QAM 15MHz B.W.; 2145.0MHz, 30kHz

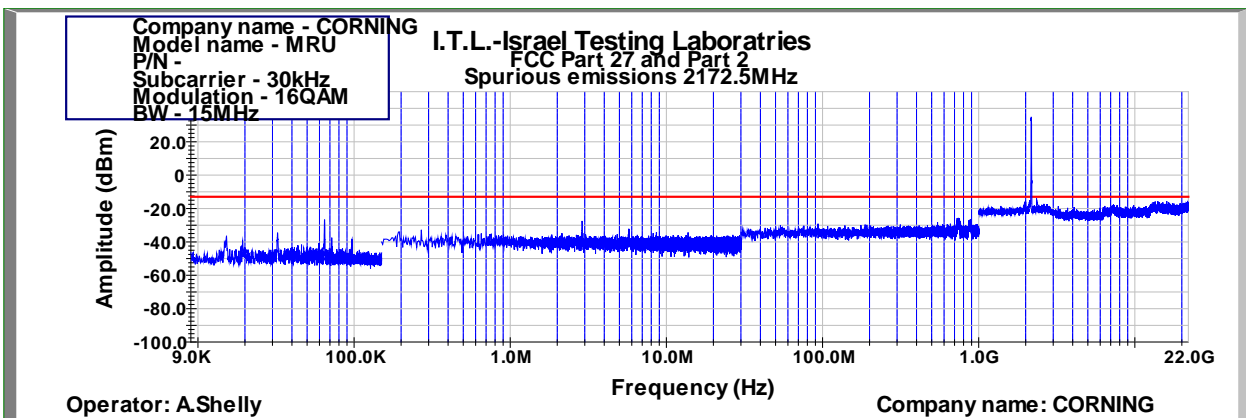


Figure 821: Spurious Emissions at Antenna Terminal 16QAM 15MHz B.W.; 2172.5MHz, 30kHz

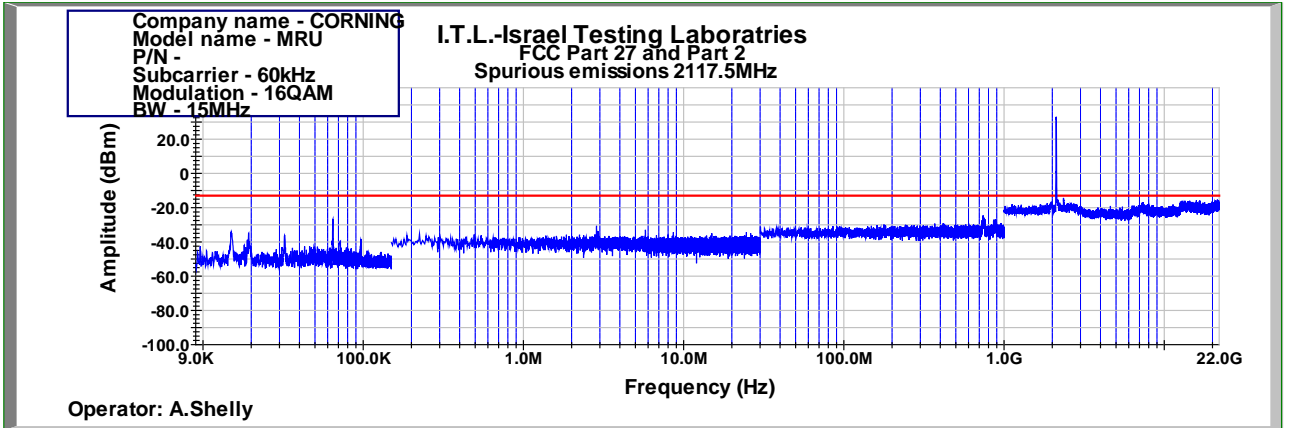


Figure 822: Spurious Emissions at Antenna Terminal 16QAM 15MHz B.W.; 2117.5MHz, 60kHz

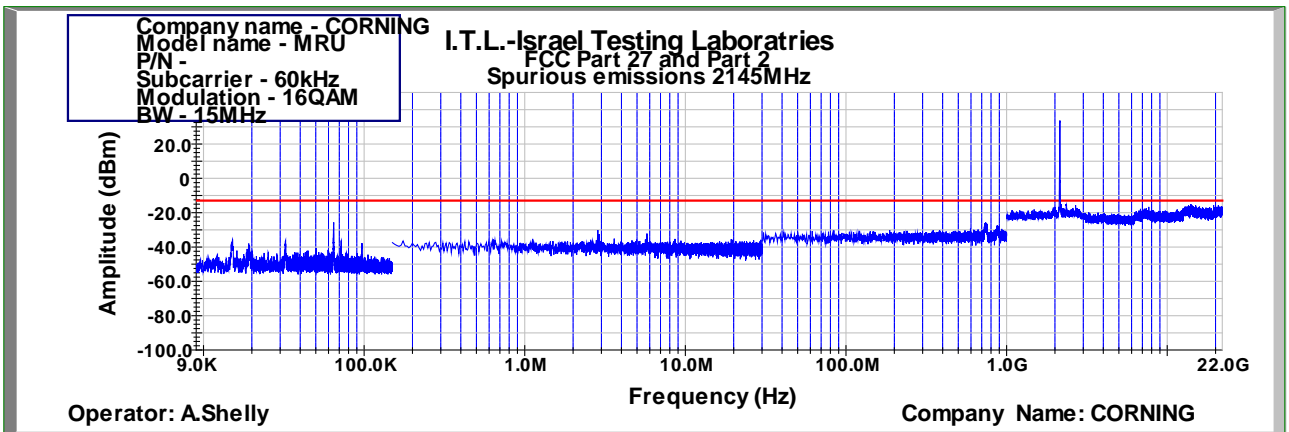


Figure 823: Spurious Emissions at Antenna Terminal 16QAM 15MHz B.W.; 2145.0MHz, 60kHz

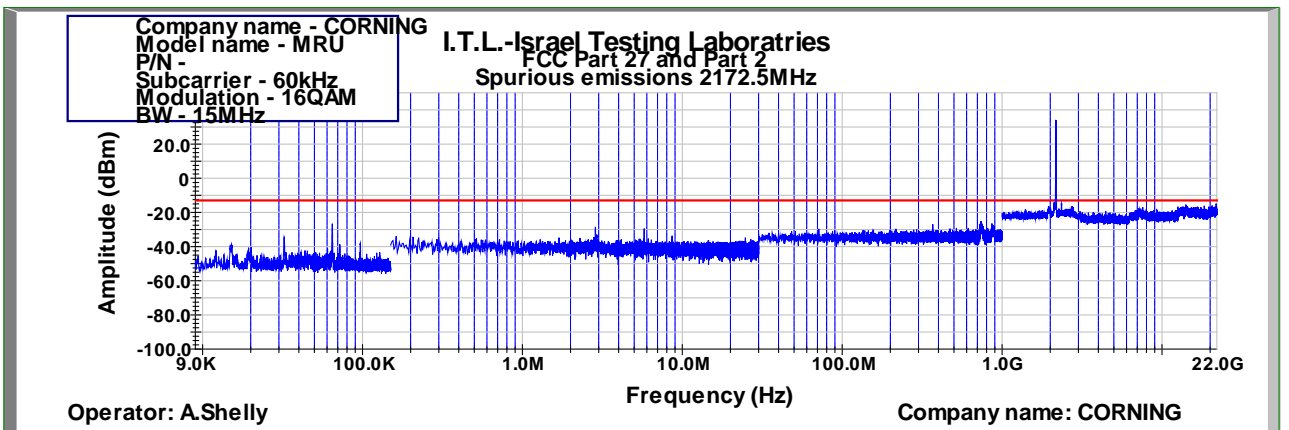


Figure 824: Spurious Emissions at Antenna Terminal 16QAM 15MHz B.W.; 2172.5MHz, 60kHz

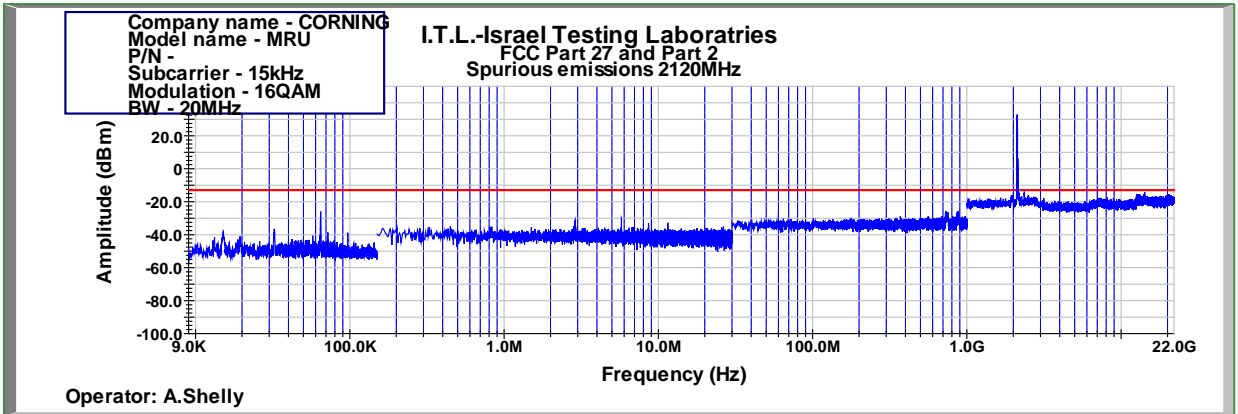


Figure 825: Spurious Emissions at Antenna Terminal 16QAM 20MHz B.W.; 2120.0MHz, 15kHz

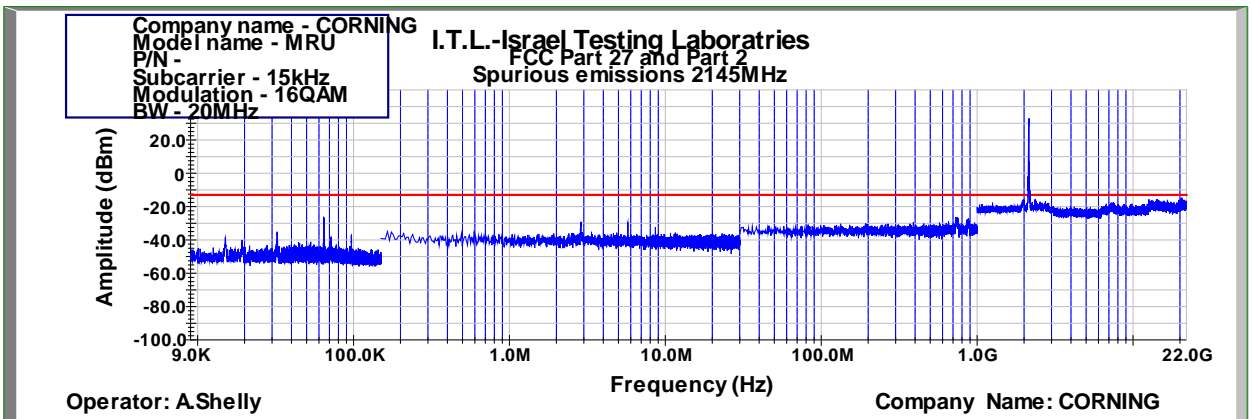


Figure 826: Spurious Emissions at Antenna Terminal 16QAM 20MHz B.W.; 2145.0MHz, 15kHz

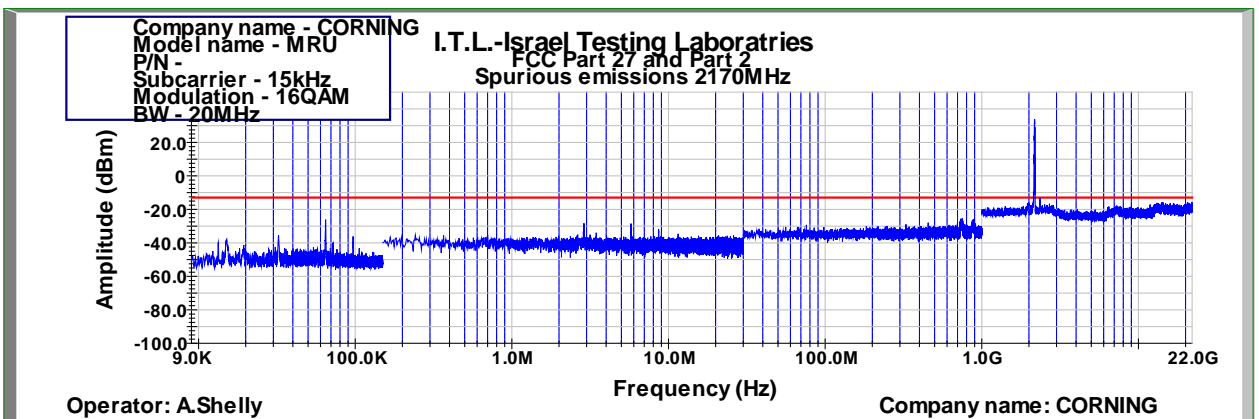


Figure 827: Spurious Emissions at Antenna Terminal 16QAM 20MHz B.W.; 2170.0MHz, 15kHz

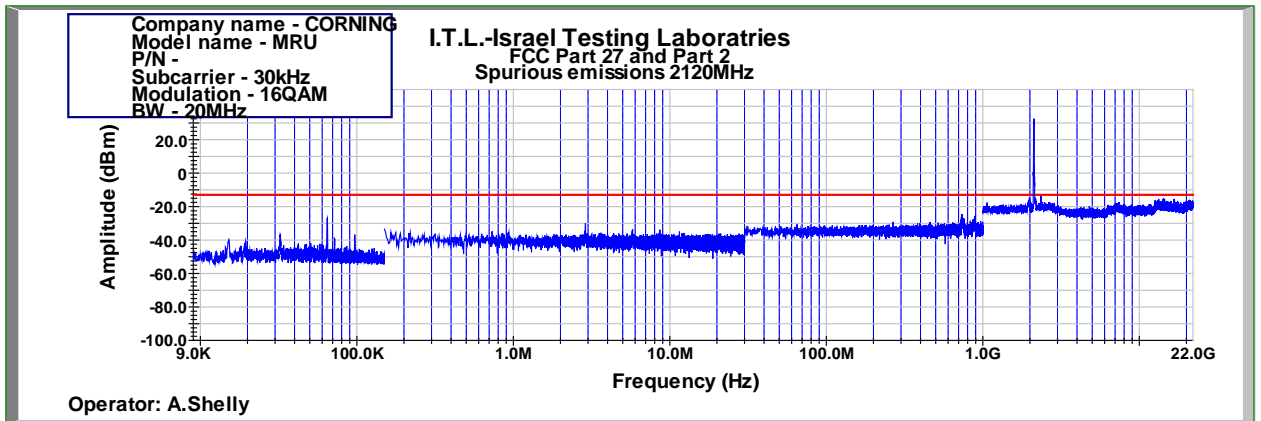


Figure 828: Spurious Emissions at Antenna Terminal 16QAM 20MHz B.W.; 2120.0MHz, 30kHz

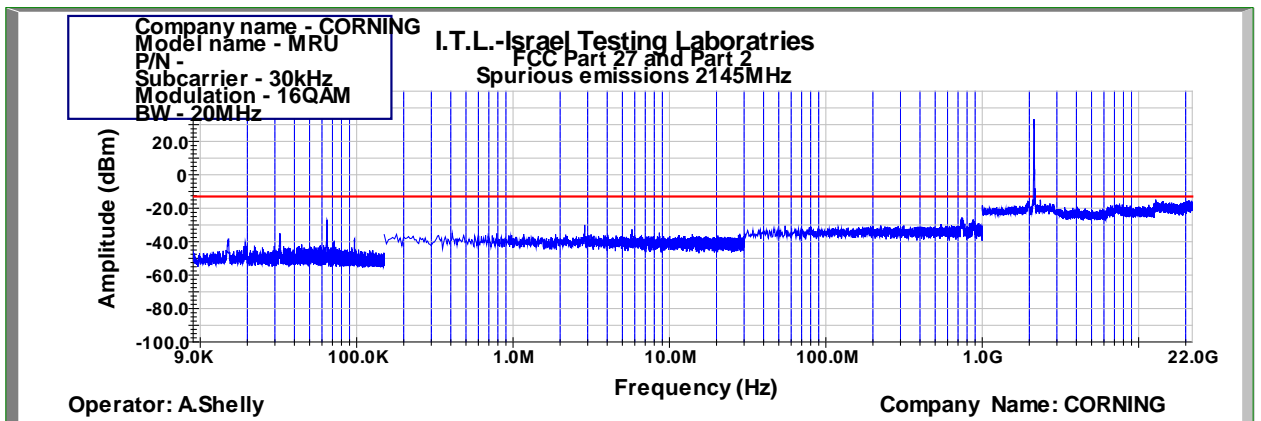


Figure 829: Spurious Emissions at Antenna Terminal 16QAM 20MHz B.W.; 2145.0MHz, 30kHz

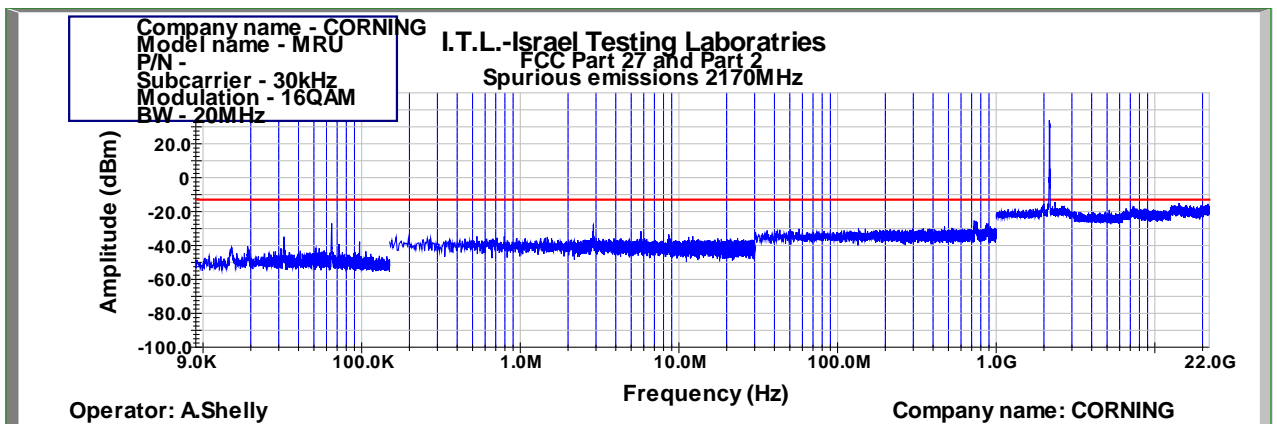


Figure 830: Spurious Emissions at Antenna Terminal 16QAM 20MHz B.W.; 2170.0MHz, 30kHz

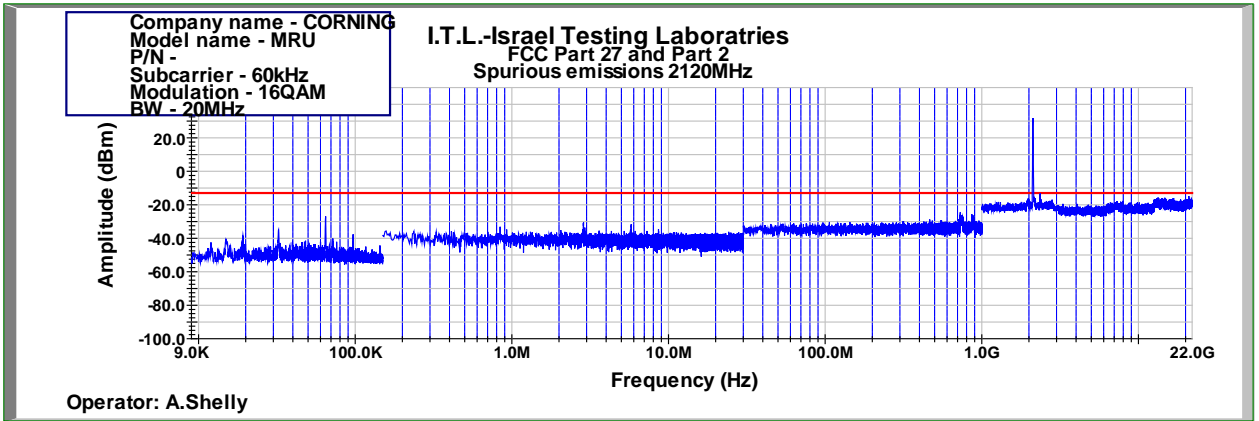


Figure 831: Spurious Emissions at Antenna Terminal 16QAM 20MHz B.W.; 2120.0MHz, 60kHz

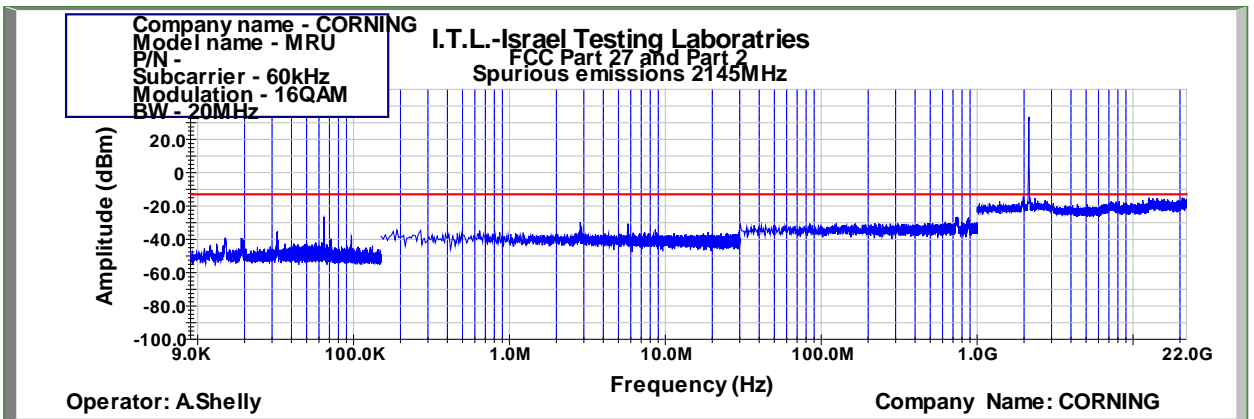


Figure 832: Spurious Emissions at Antenna Terminal 16QAM 20MHz B.W.; 2145.0MHz, 60kHz

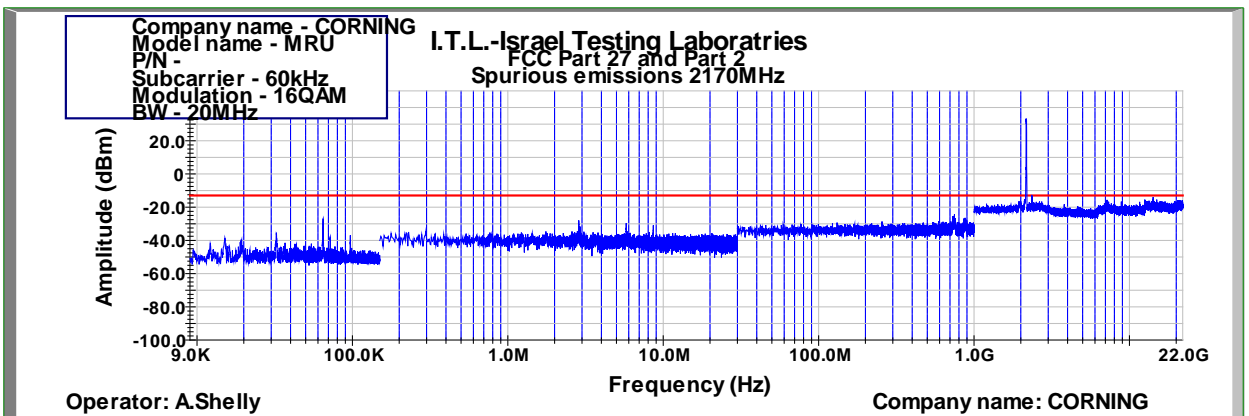


Figure 833: Spurious Emissions at Antenna Terminal 16QAM 20MHz B.W.; 2170.0MHz, 60kHz



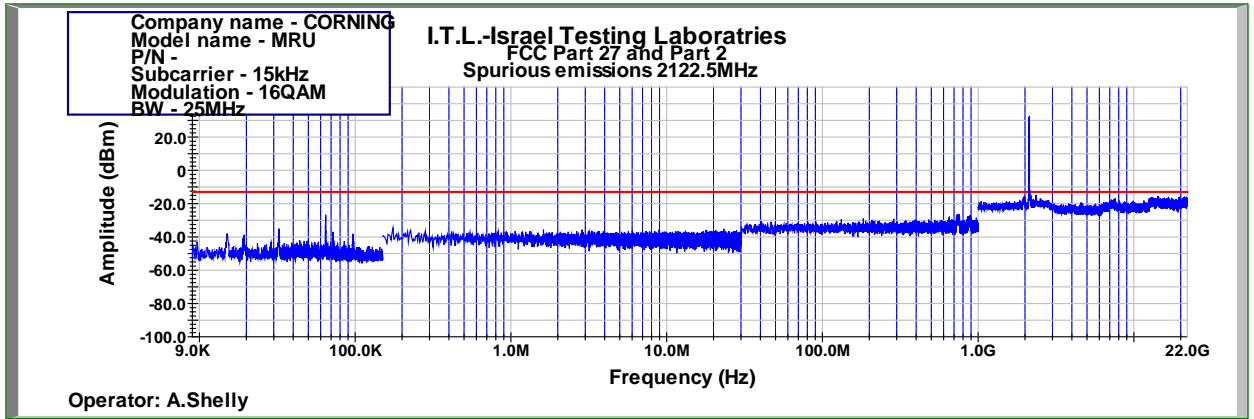


Figure 834: Spurious Emissions at Antenna Terminal 16QAM 25MHz B.W.; 2122.5MHz, 15kHz

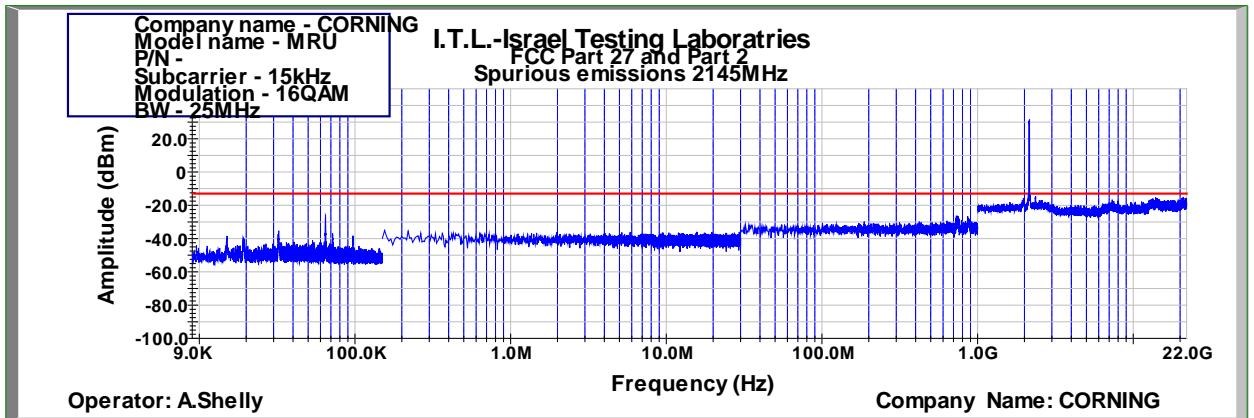


Figure 835: Spurious Emissions at Antenna Terminal 16QAM 25MHz B.W.; 2145.0MHz, 15kHz

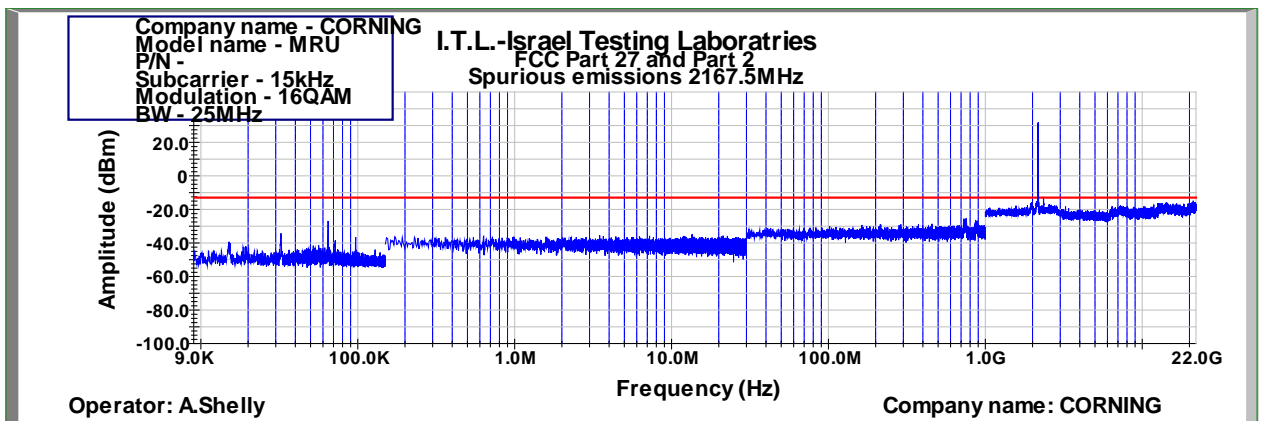


Figure 836: Spurious Emissions at Antenna Terminal 16QAM 25MHz B.W.; 2167.5MHz, 15kHz

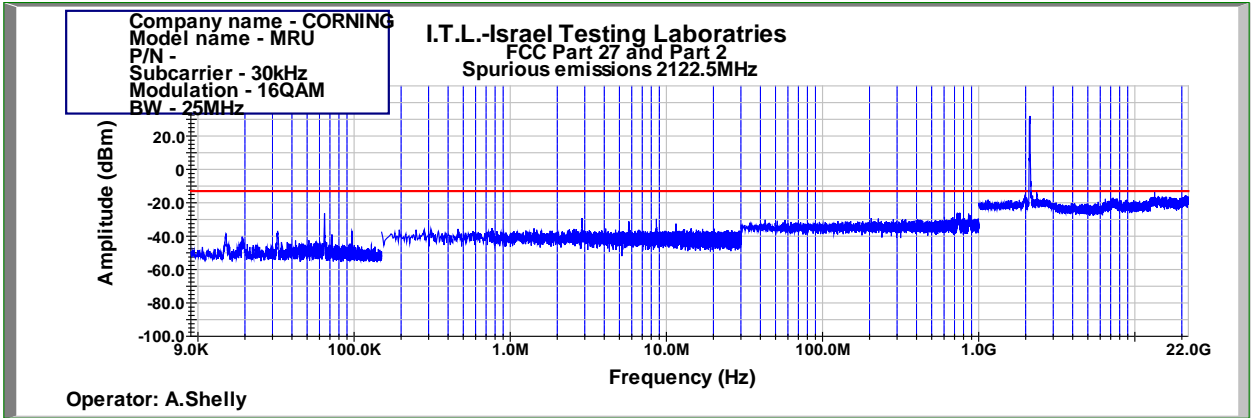


Figure 837: Spurious Emissions at Antenna Terminal 16QAM 25MHz B.W.; 2122.5MHz, 30kHz

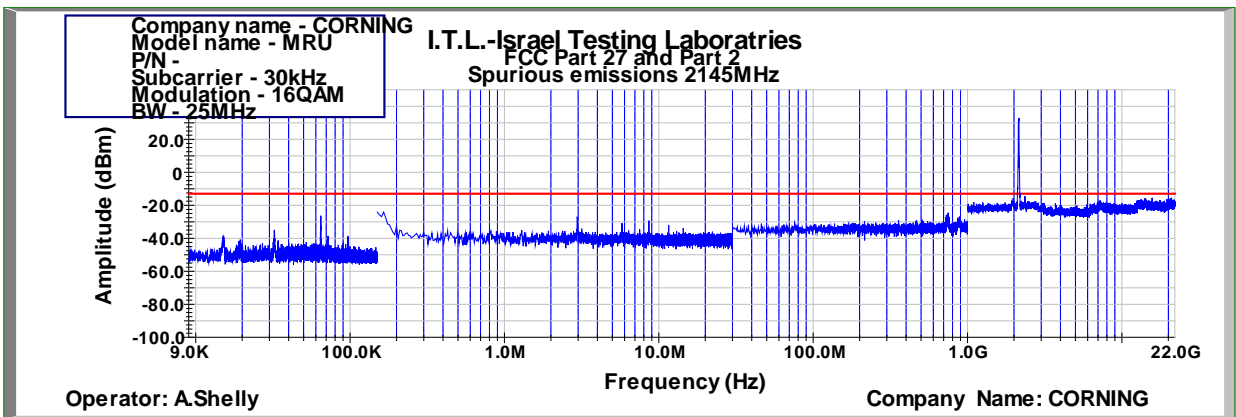


Figure 838: Spurious Emissions at Antenna Terminal 16QAM 25MHz B.W.; 2145.0MHz, 30kHz

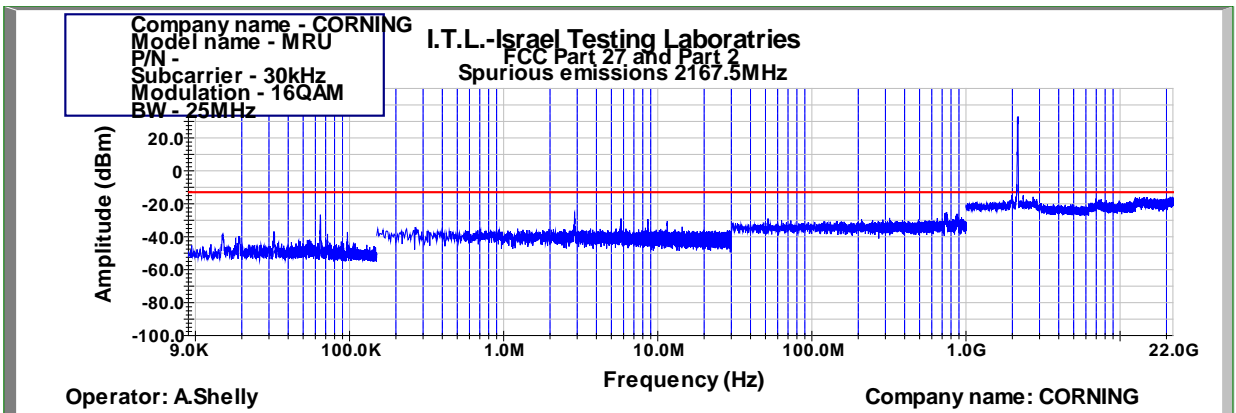


Figure 839: Spurious Emissions at Antenna Terminal 16QAM 25MHz B.W.; 2167.5MHz, 30kHz

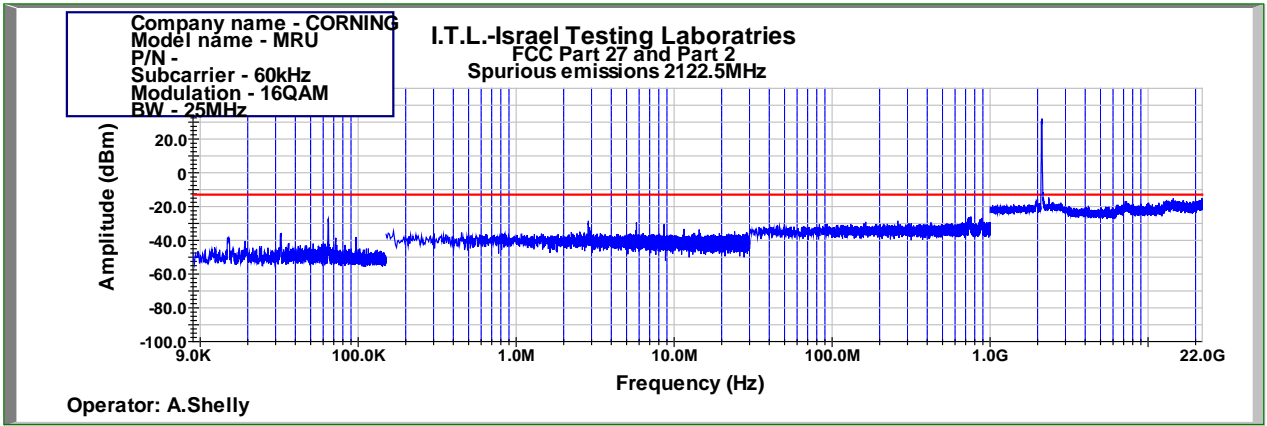


Figure 840: Spurious Emissions at Antenna Terminal 16QAM 25MHz B.W.; 2122.5MHz, 60kHz

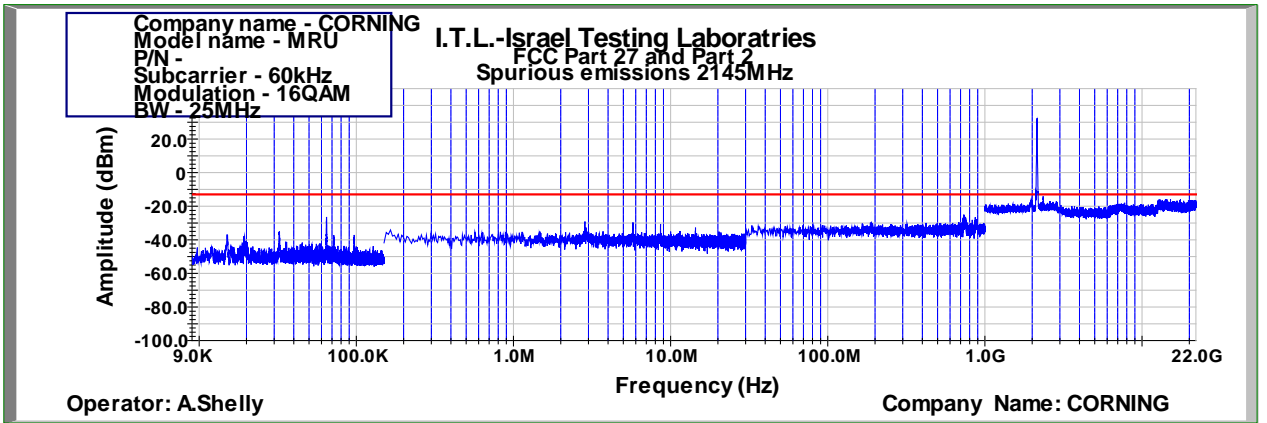


Figure 841: Spurious Emissions at Antenna Terminal 16QAM 25MHz B.W.; 2145.0MHz, 60kHz

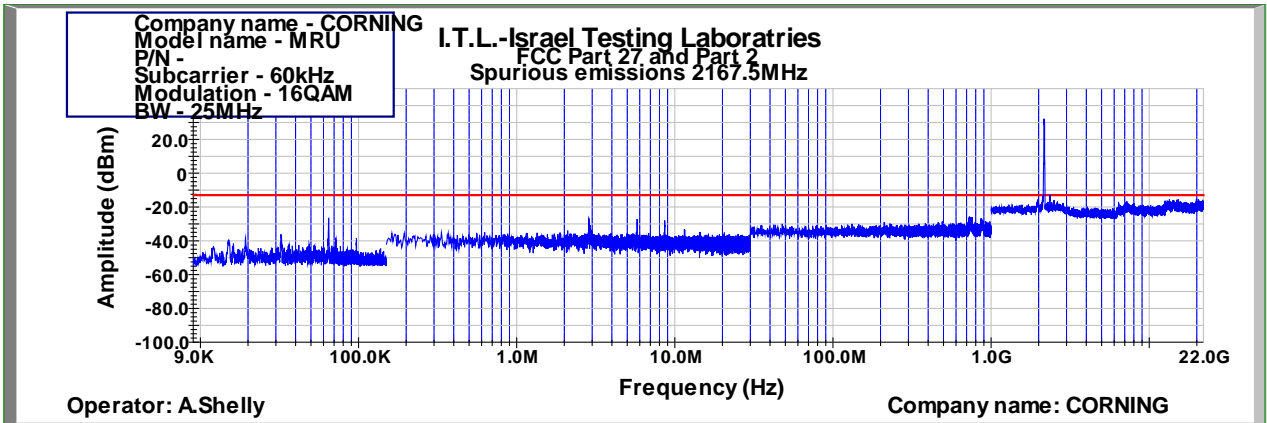


Figure 842: Spurious Emissions at Antenna Terminal 16QAM 25MHz B.W.; 2167.5MHz, 60kHz

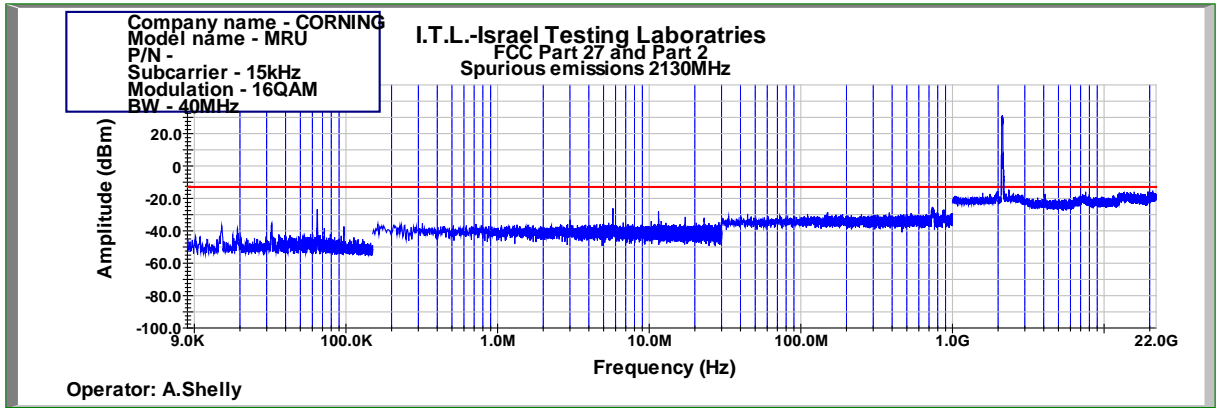


Figure 843: Spurious Emissions at Antenna Terminal 16QAM 40MHz B.W.; 2130.0MHz, 15kHz

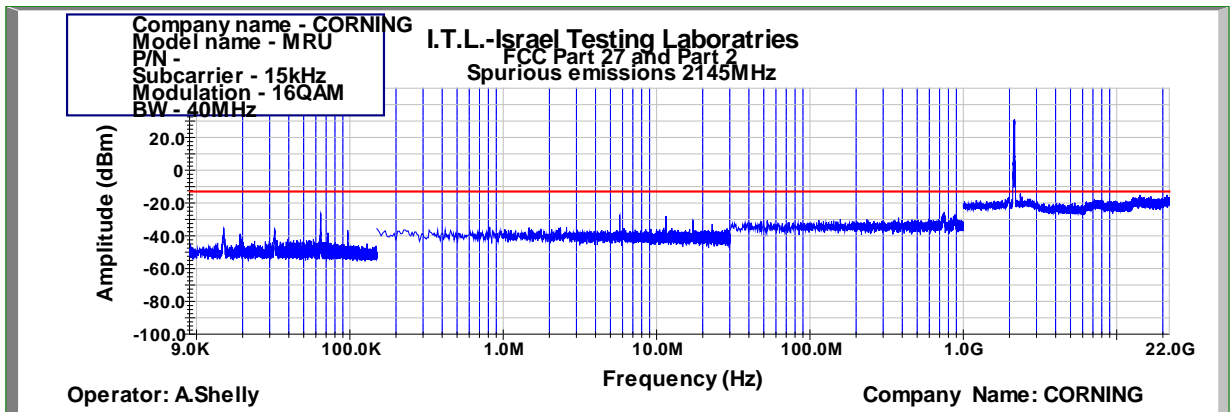


Figure 844: Spurious Emissions at Antenna Terminal 16QAM 40MHz B.W.; 2145.0MHz, 15kHz

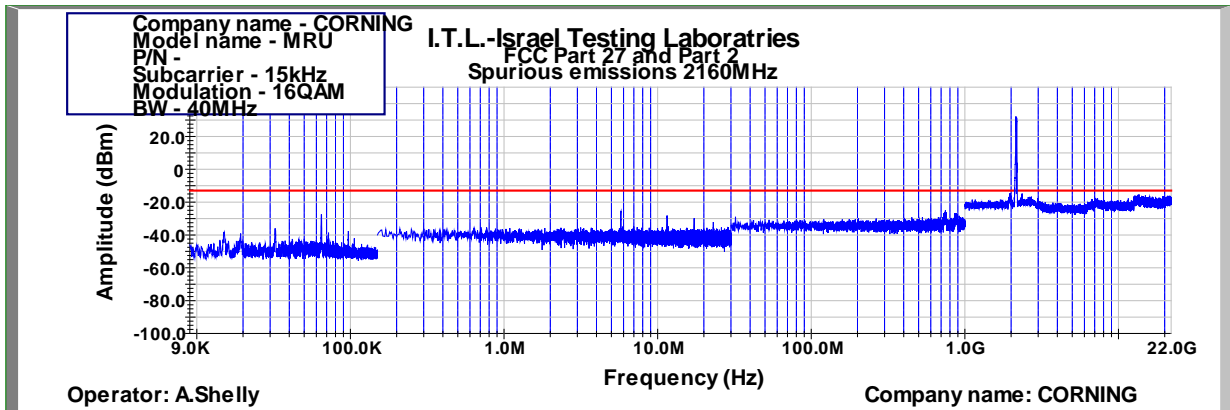


Figure 845: Spurious Emissions at Antenna Terminal 16QAM 40MHz B.W.; 2160.0MHz, 15kHz

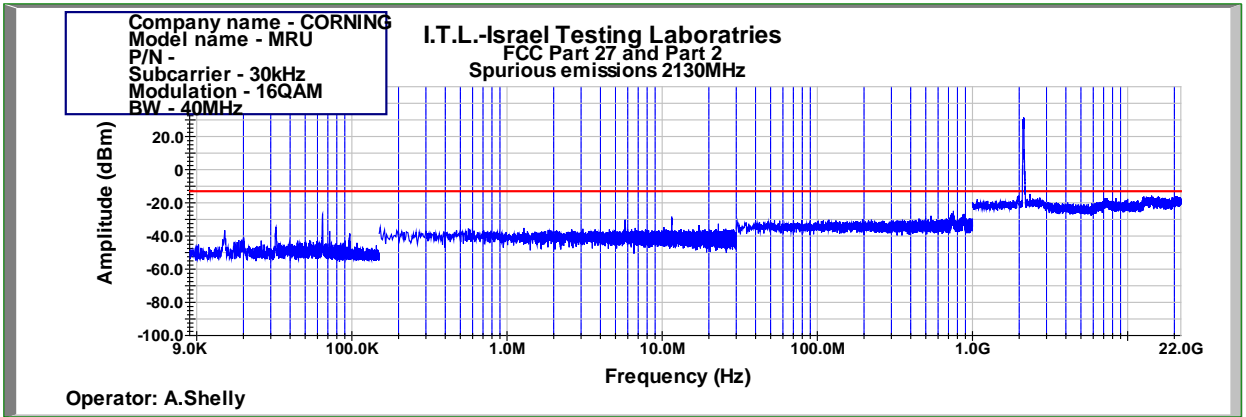


Figure 846: Spurious Emissions at Antenna Terminal 16QAM 40MHz B.W.; 2130.0MHz, 30kHz

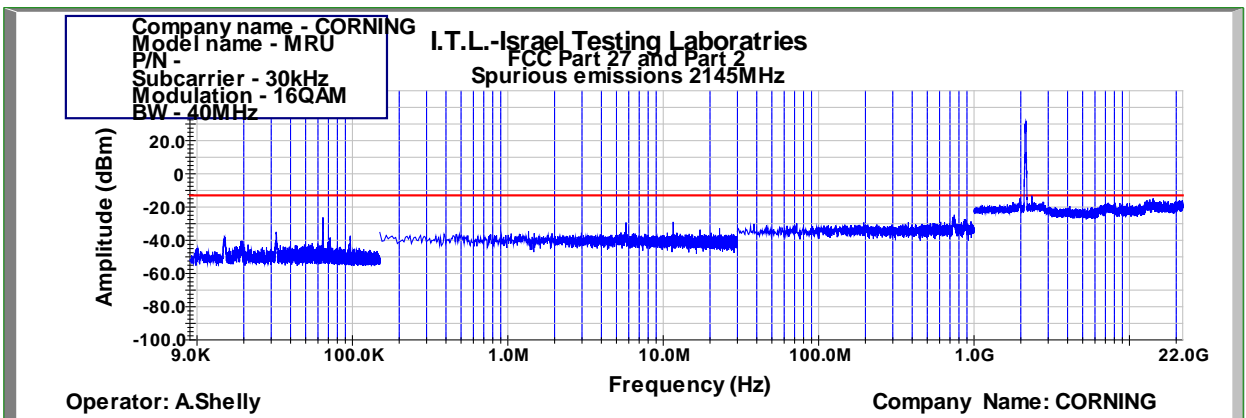


Figure 847: Spurious Emissions at Antenna Terminal 16QAM 40MHz B.W.; 2145.0MHz, 30kHz

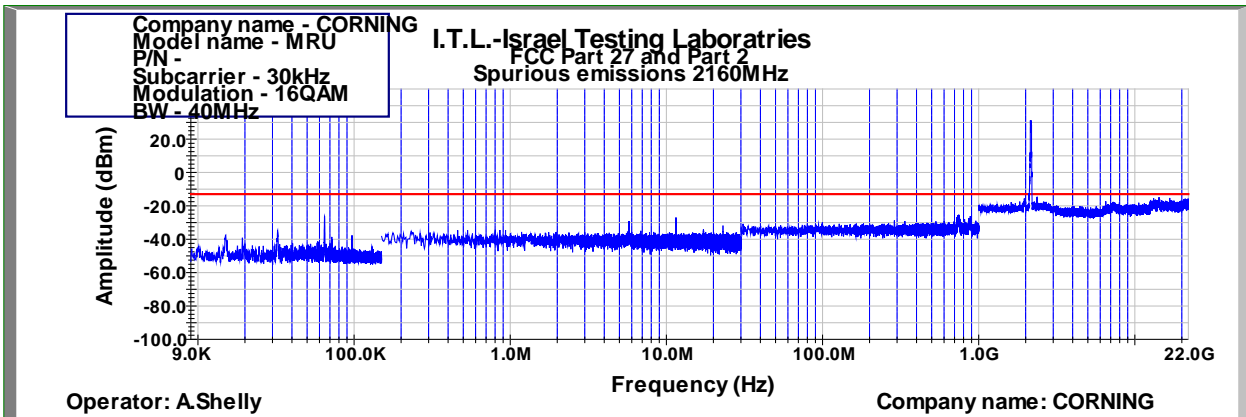


Figure 848: Spurious Emissions at Antenna Terminal 16QAM 40MHz B.W.; 2160.0MHz, 30kHz

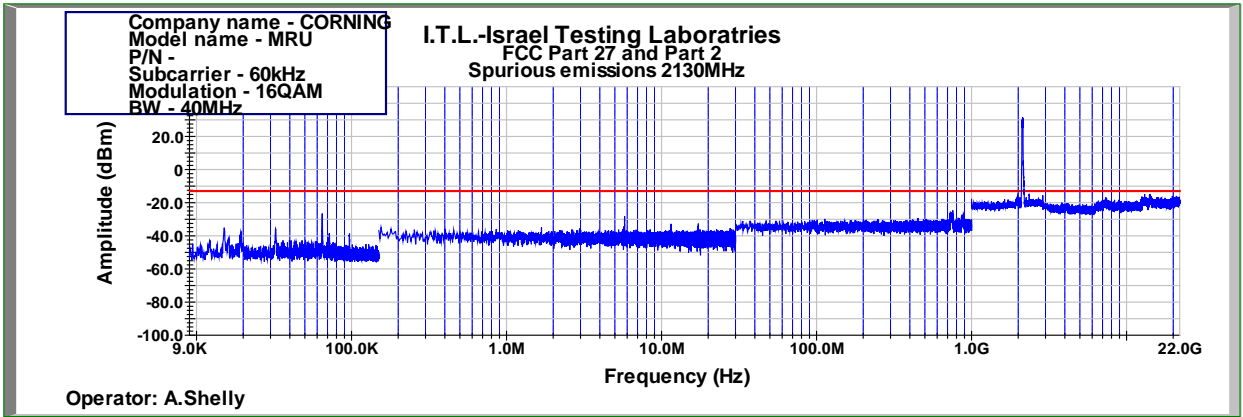


Figure 849: Spurious Emissions at Antenna Terminal 16QAM 40MHz B.W.; 2130.0MHz, 60kHz

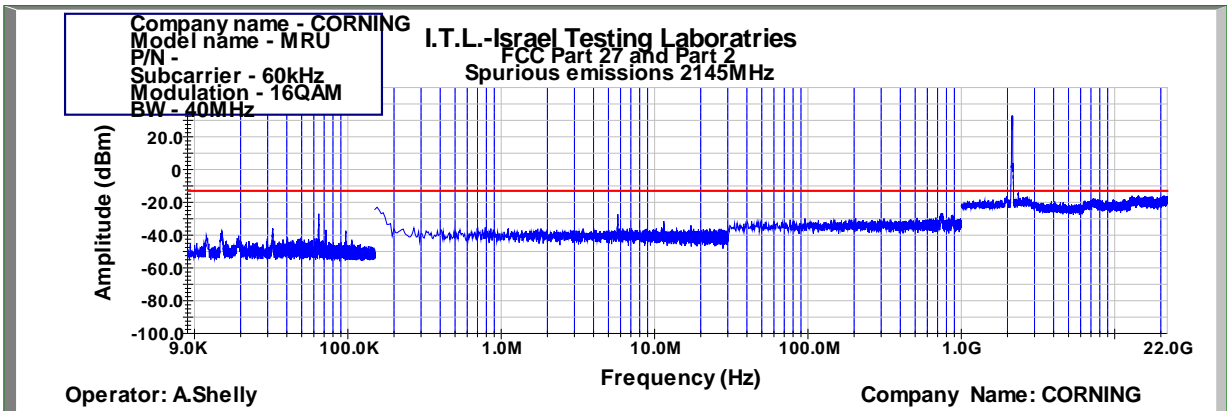


Figure 850: Spurious Emissions at Antenna Terminal 16QAM 40MHz B.W.; 2145.0MHz, 60kHz

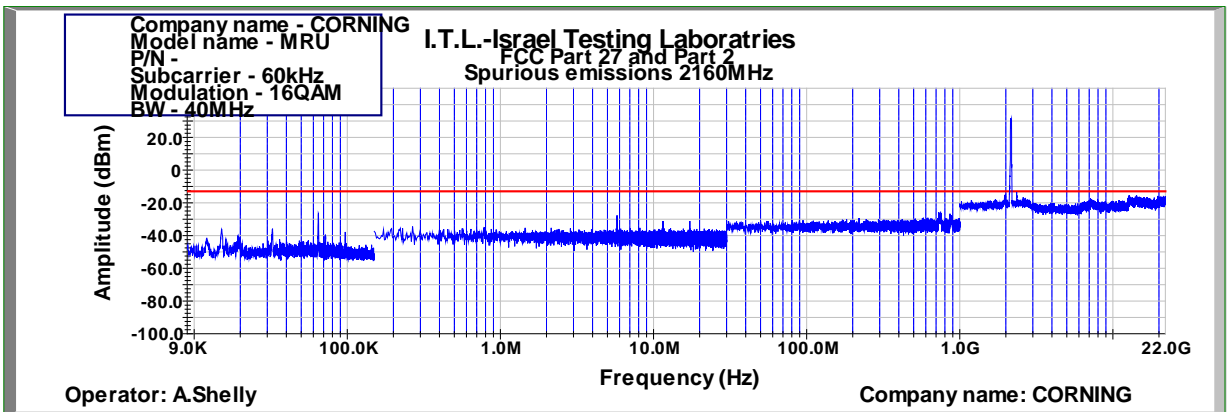


Figure 851: Spurious Emissions at Antenna Terminal 16QAM 40MHz B.W.; 2160.0MHz, 60kHz

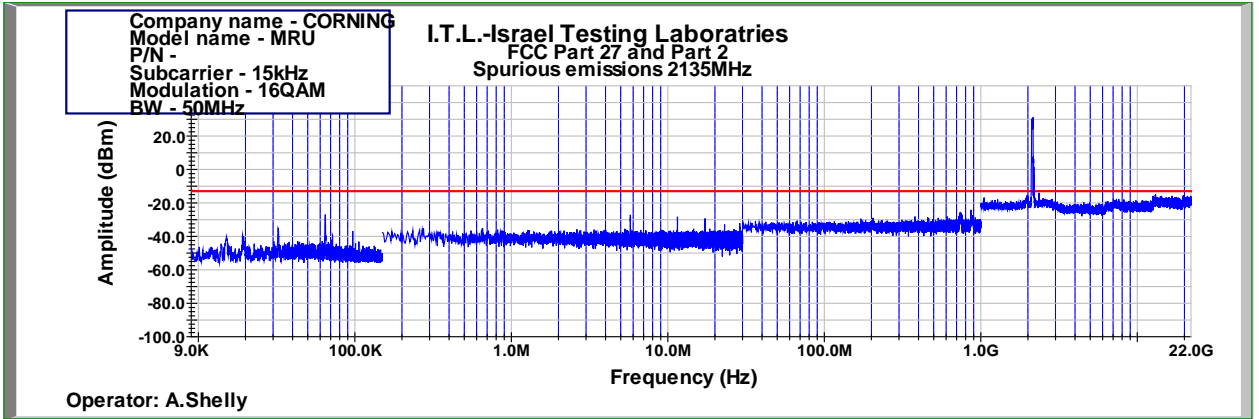


Figure 852: Spurious Emissions at Antenna Terminal 16QAM 50MHz B.W.; 2135.0MHz, 15kHz

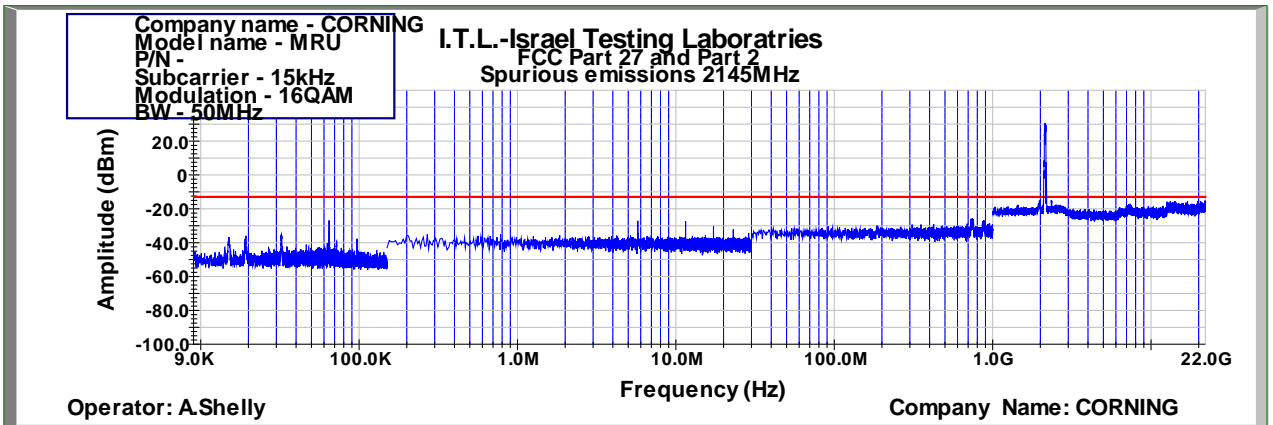


Figure 853: Spurious Emissions at Antenna Terminal 16QAM 50MHz B.W.; 2145.0MHz, 15kHz

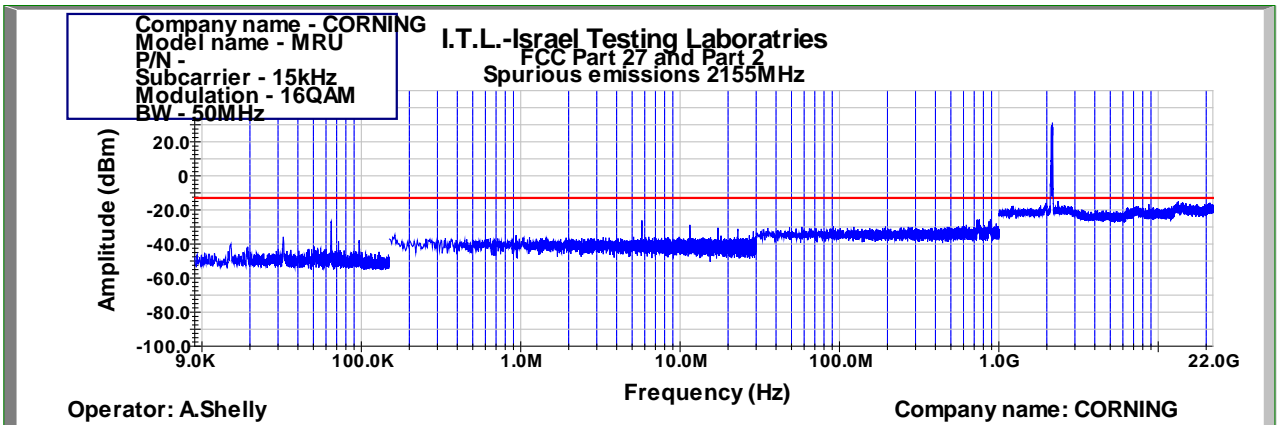


Figure 854: Spurious Emissions at Antenna Terminal 16QAM 50MHz B.W.; 2155.0MHz, 15kHz



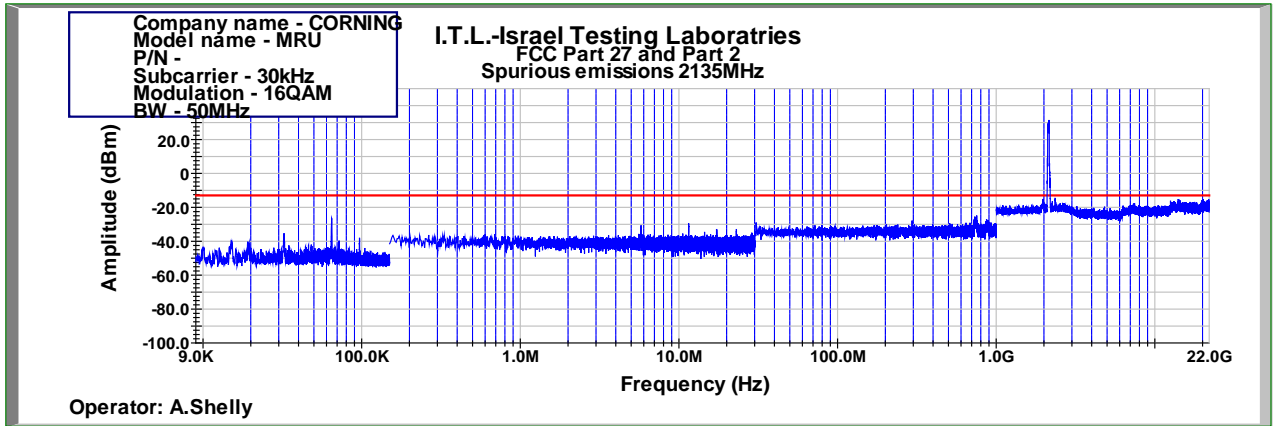


Figure 855: Spurious Emissions at Antenna Terminal 16QAM 50MHz B.W.; 2135.0MHz, 30kHz

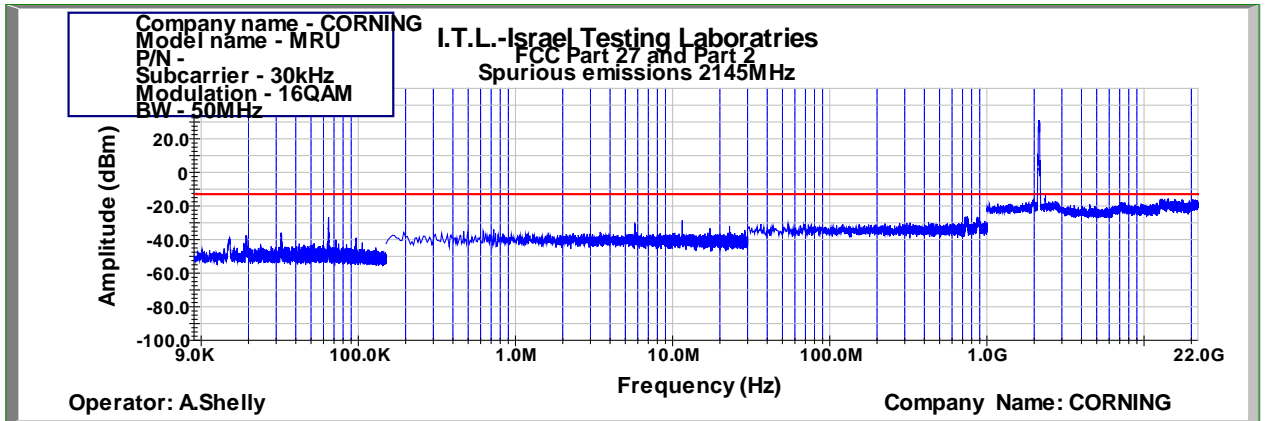


Figure 856: Spurious Emissions at Antenna Terminal 16QAM 50MHz B.W.; 2145.0MHz, 30kHz

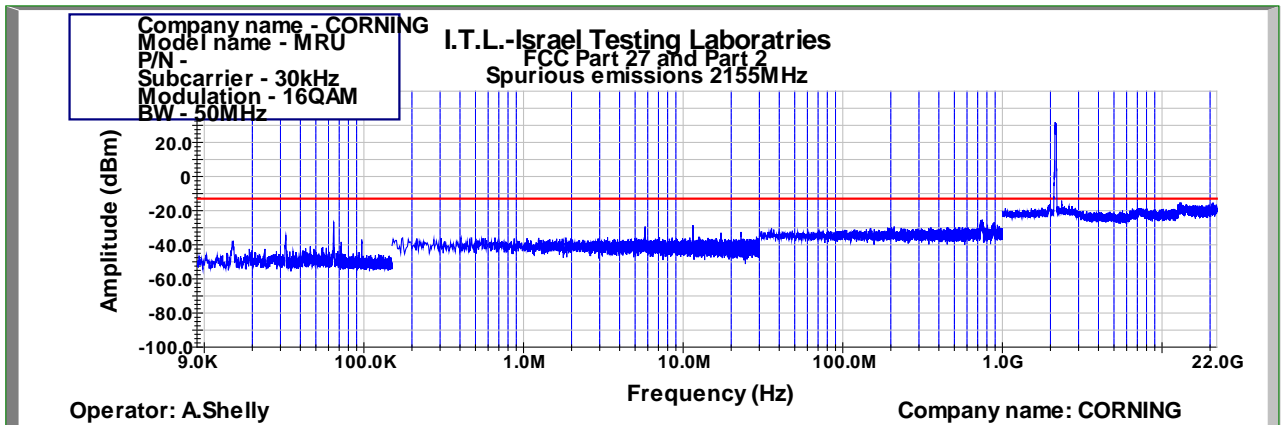


Figure 857: Spurious Emissions at Antenna Terminal 16QAM 50MHz B.W.; 2155.0MHz, 30kHz

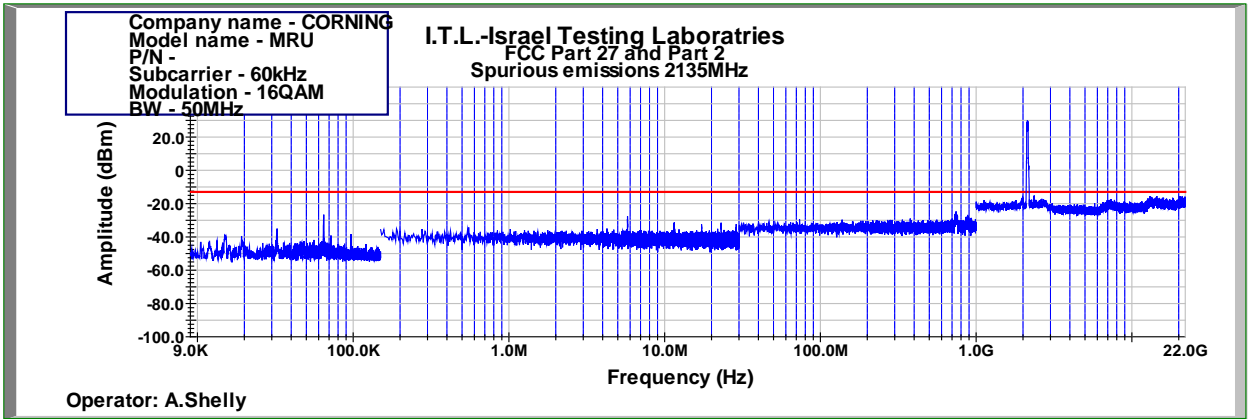


Figure 858: Spurious Emissions at Antenna Terminal 16QAM 50MHz B.W.; 2135.0MHz, 60kHz

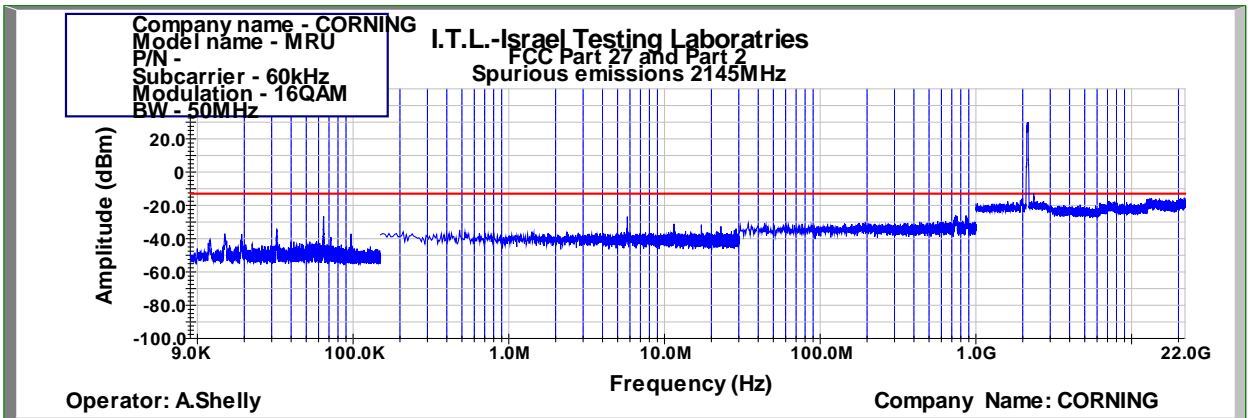


Figure 859: Spurious Emissions at Antenna Terminal 16QAM 50MHz B.W.; 2145.0MHz, 60kHz

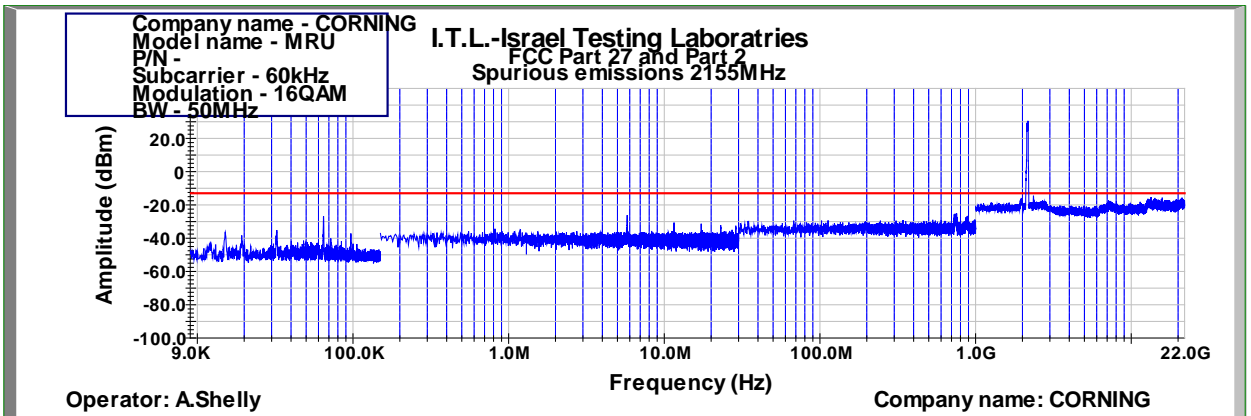


Figure 860: Spurious Emissions at Antenna Terminal 16QAM 50MHz B.W.; 2155.0MHz, 60kHz