



8 Spurious Emissions at Antenna Terminals

8.1 Test Specification

FCC Part 27, Subpart C, Sections 27.53(c)(1) (3) 27.53 (g)

8.2 Test Procedure

(Temperature (22°C)/ Humidity (36%RH))

The E.U.T. antenna terminal was connected to the spectrum analyzer through an external attenuator and an appropriate coaxial cable (max loss=20.8dB).

Test Limit

The power of any emission outside of the authorized operating frequency ranges (617 -652 MHz) must be attenuated below the transmitting power (P) by a factor of $43 + 10 \log (P)$ dB.

8.3 Test Results

JUDGEMENT: Passed

See additional information in Figure 623 to Figure 754.

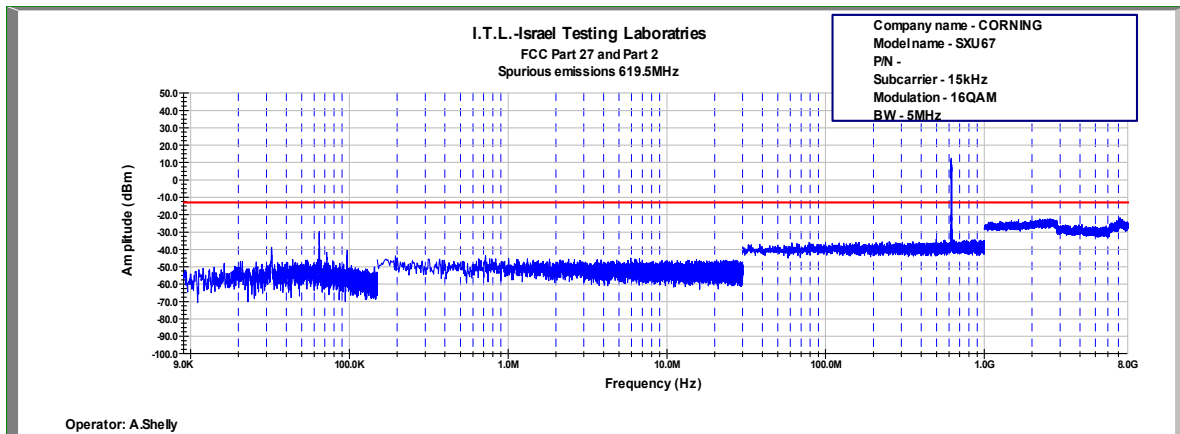


Figure 623: Spurious Emissions at Antenna Terminal 16QAM, 619.5MHz, B.W. 5MHz, Sub Carrier 15kHz

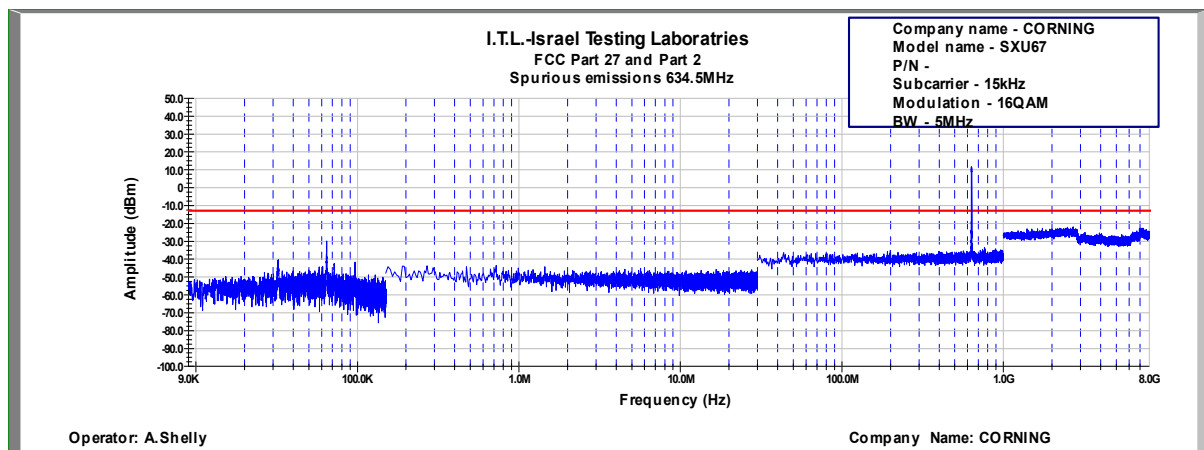


Figure 624: Spurious Emissions at Antenna Terminal 16QAM, 634.5MHz, B.W. 5MHz, Sub Carrier 15kHz

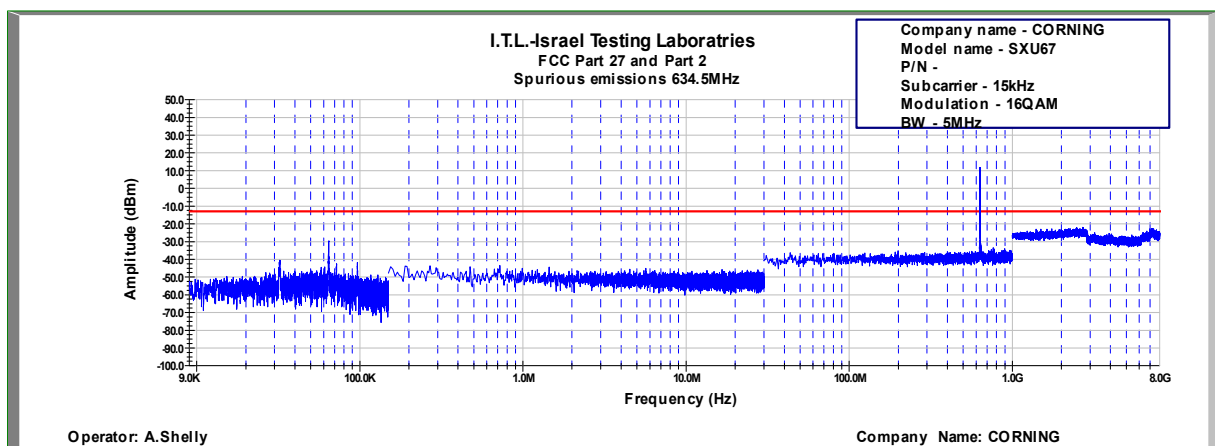


Figure 625: Spurious Emissions at Antenna Terminal 16QAM, 649.5MHz, B.W. 5MHz, Sub Carrier 15kHz

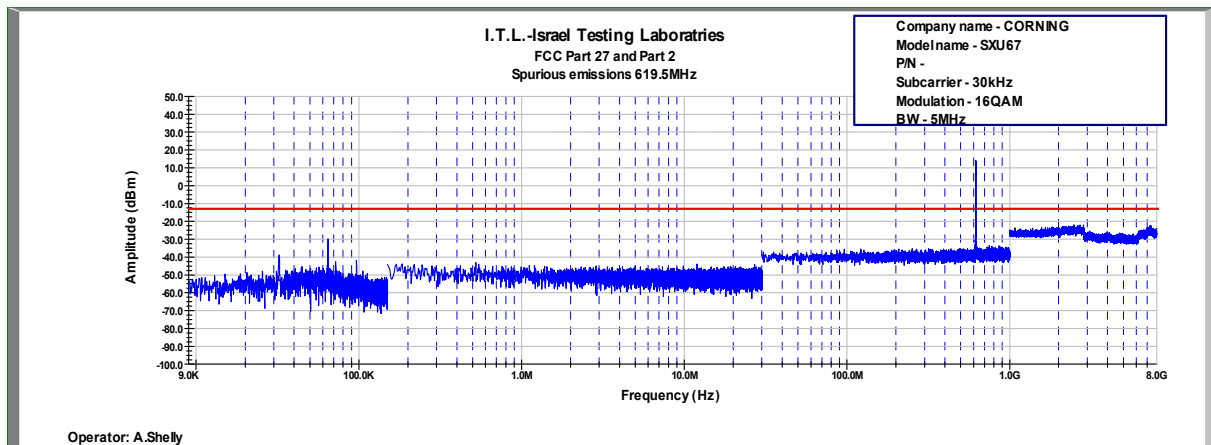


Figure 626: Spurious Emissions at Antenna Terminal 16QAM, 619.5MHz, B.W. 5MHz, Sub Carrier 30kHz

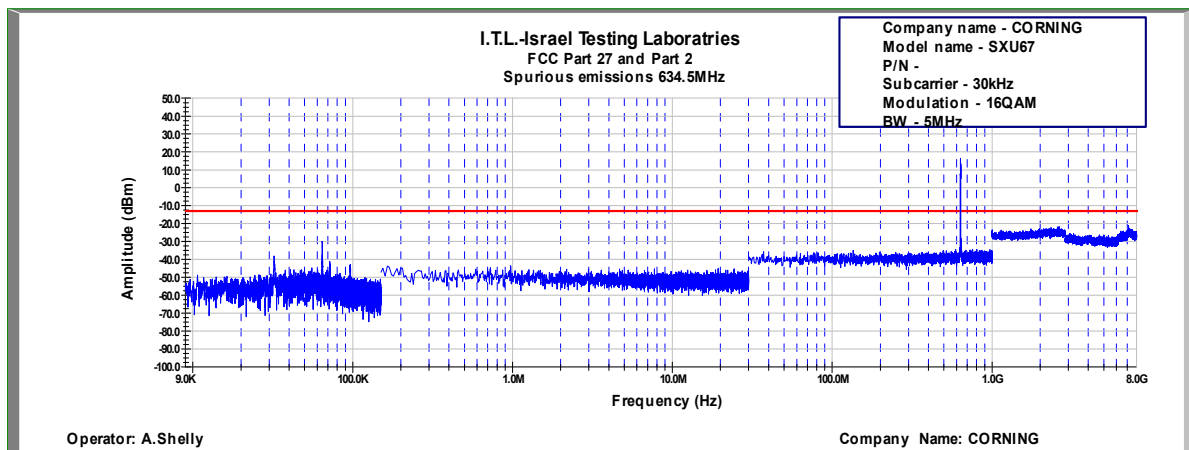


Figure 627: Spurious Emissions at Antenna Terminal 16QAM, 634.5MHz, B.W. 5MHz, Sub Carrier 30kHz

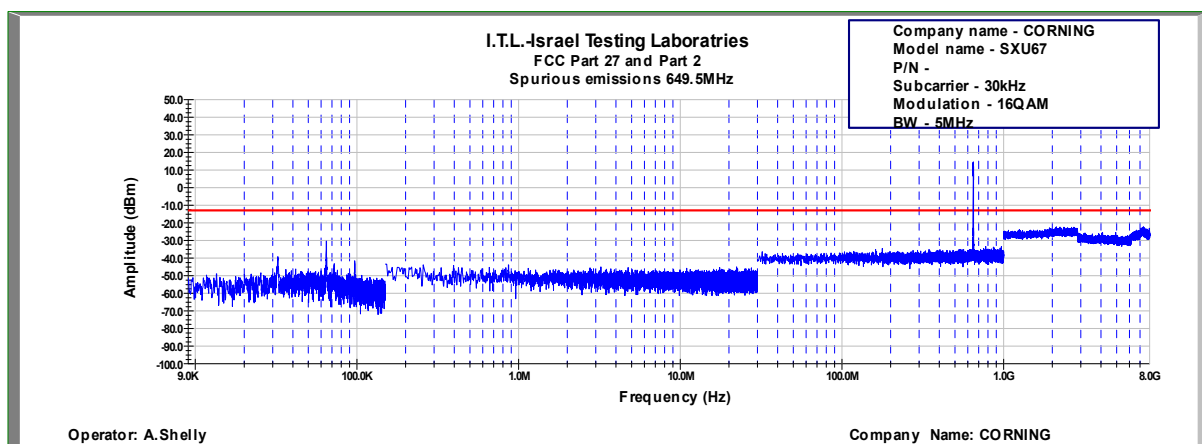
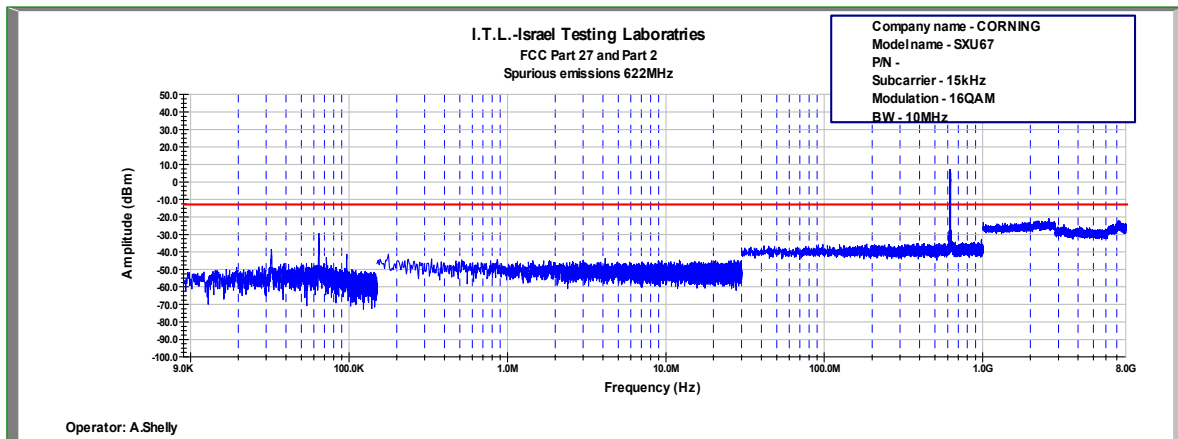
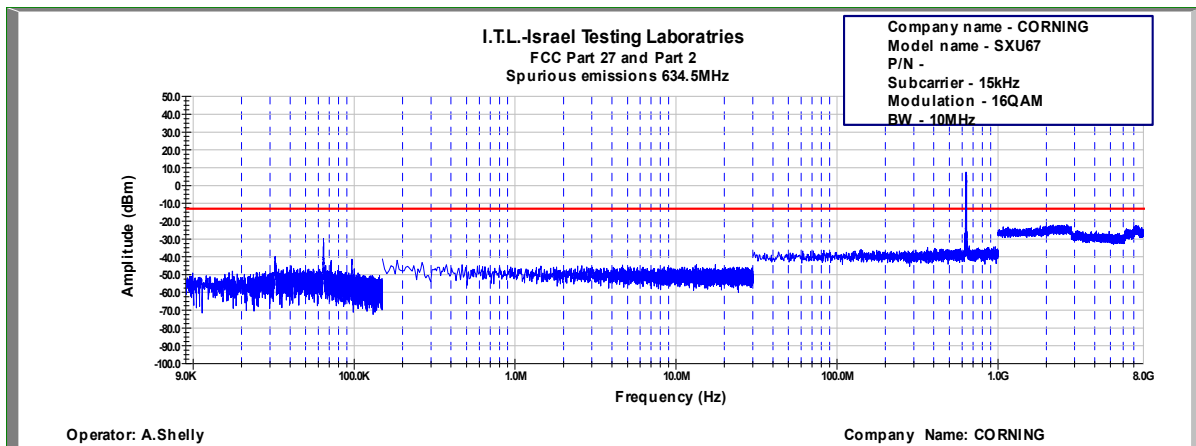


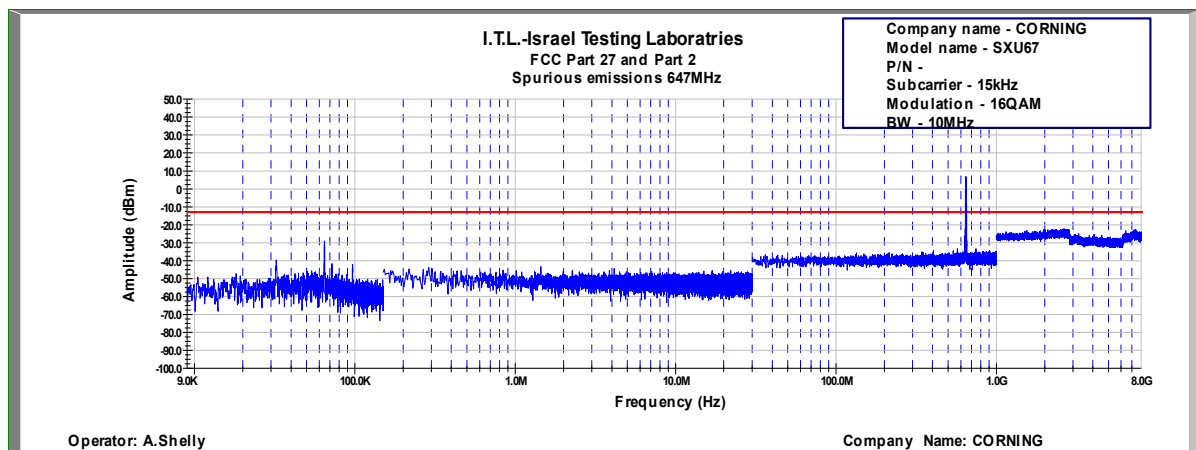
Figure 628: Spurious Emissions at Antenna Terminal 16QAM, 649.5MHz, B.W. 5MHz, Sub Carrier 30kHz



**Figure 629: Spurious Emissions at Antenna Terminal 16QAM, 622.0MHz,
B.W. 10MHz, Sub Carrier 15kHz**



**Figure 630: Spurious Emissions at Antenna Terminal 16QAM, 634.5MHz,
B.W. 10MHz, Sub Carrier 15kHz**



**Figure 631: Spurious Emissions at Antenna Terminal 16QAM, 647.0MHz,
B.W. 10MHz, Sub Carrier 15kHz**

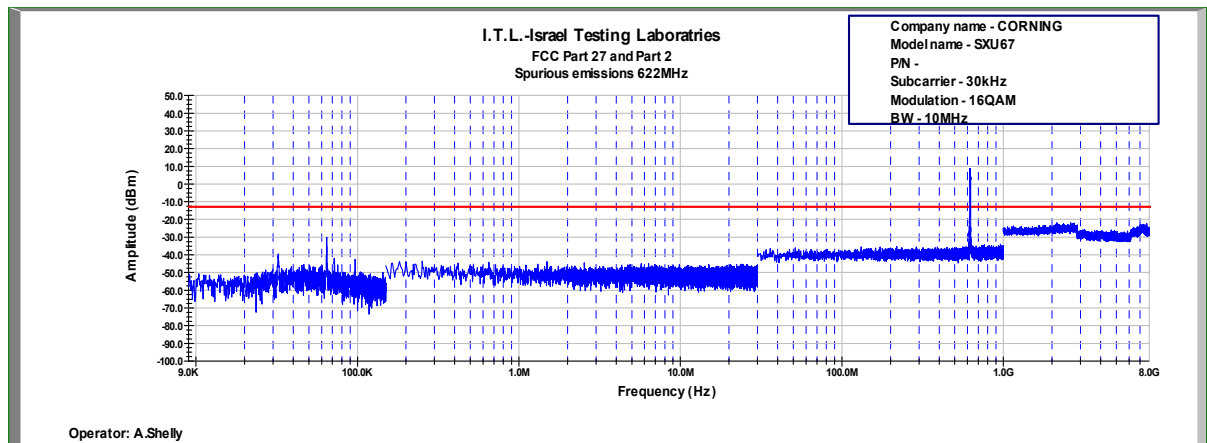


Figure 632: Spurious Emissions at Antenna Terminal 16QAM, 622.0MHz,
B.W. 10MHz, Sub Carrier 30kHz

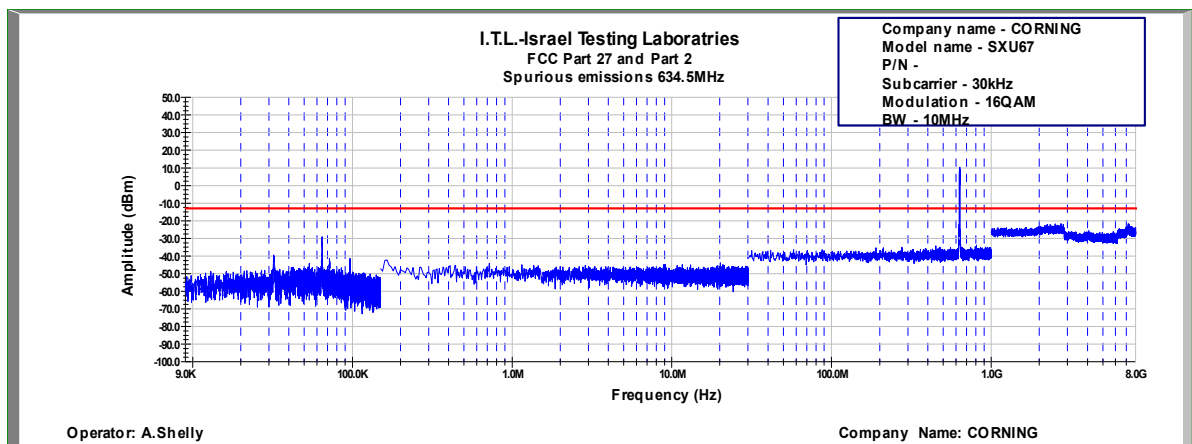


Figure 633: Spurious Emissions at Antenna Terminal 16QAM, 634.5MHz,
B.W. 10MHz, Sub Carrier 30kHz

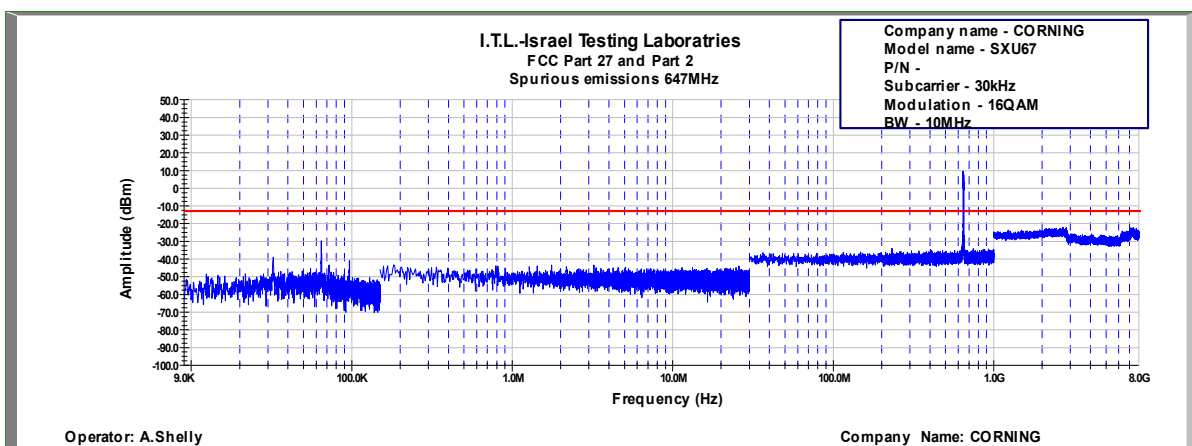
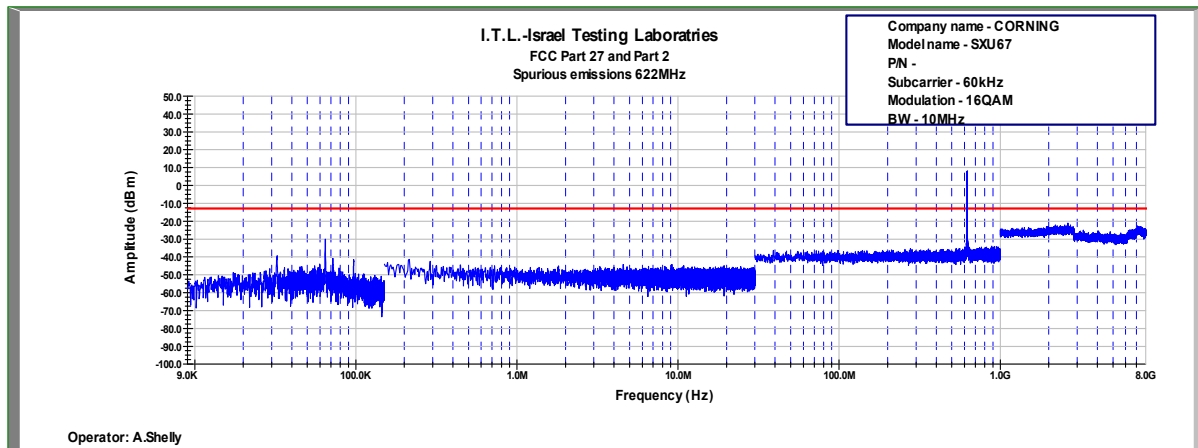
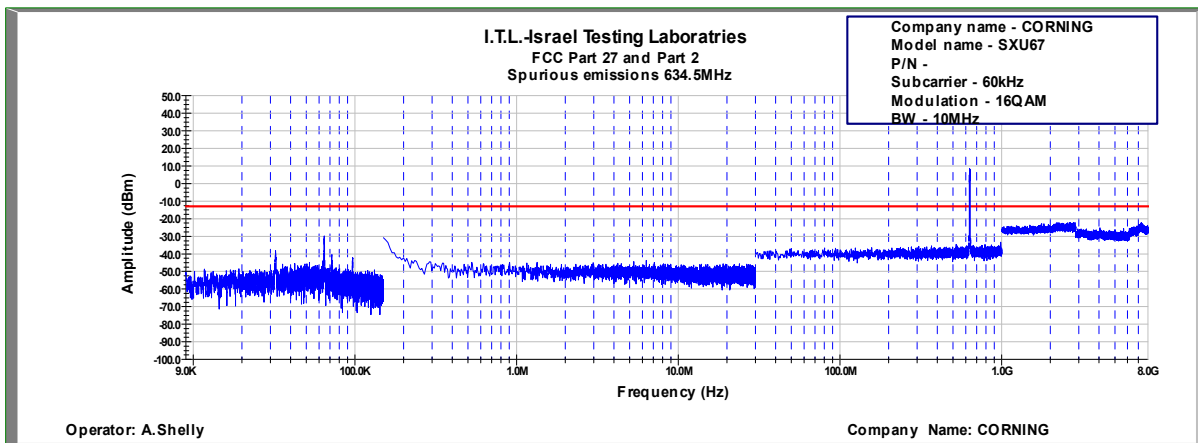


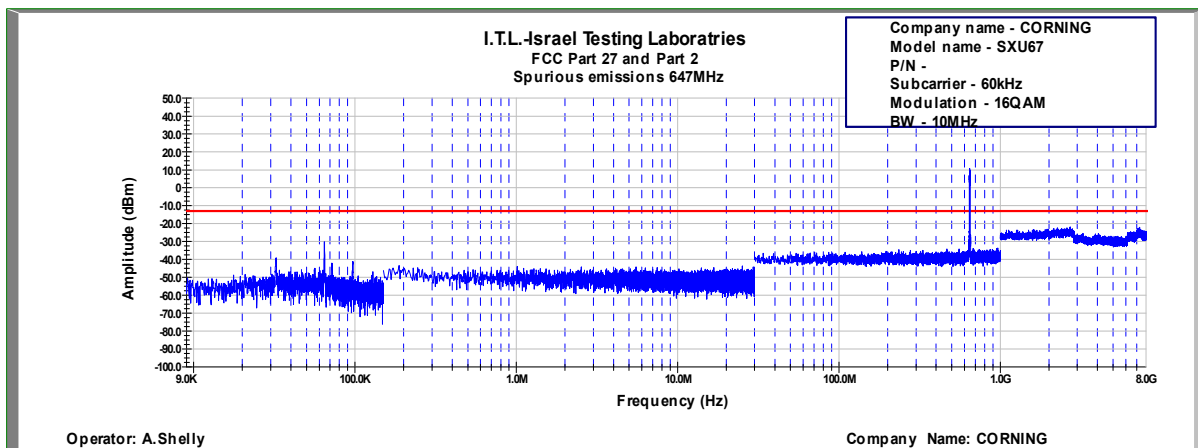
Figure 634: Spurious Emissions at Antenna Terminal 16QAM, 647.0MHz,
B.W. 10MHz, Sub Carrier 30kHz



**Figure 635: Spurious Emissions at Antenna Terminal 16QAM, 622.0MHz,
B.W. 10MHz, Sub Carrier 60kHz**



**Figure 636: Spurious Emissions at Antenna Terminal 16QAM, 634.5MHz,
B.W. 10MHz, Sub Carrier 60kHz**



**Figure 637: Spurious Emissions at Antenna Terminal 16QAM, 647.0MHz,
B.W. 10MHz, Sub Carrier 60kHz**

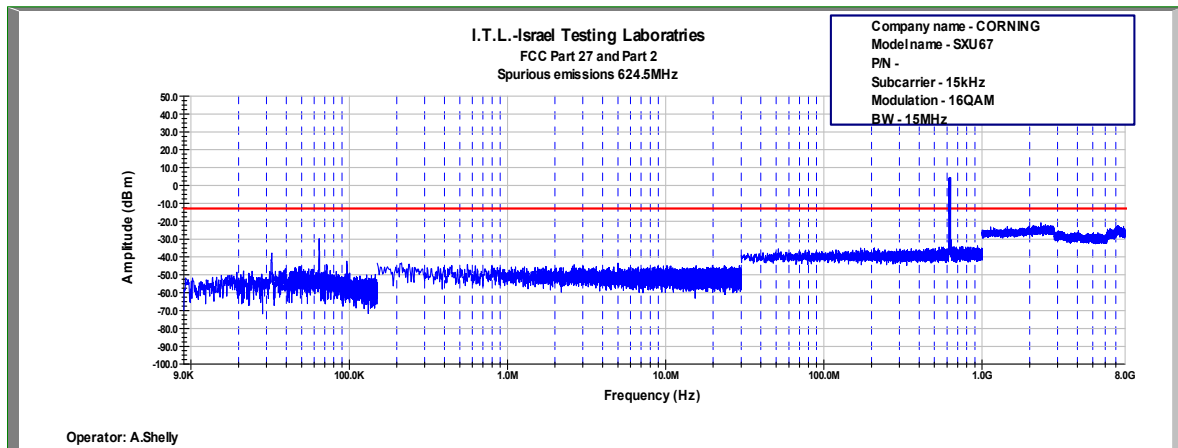


Figure 638: Spurious Emissions at Antenna Terminal 16QAM, 624.5MHz,
B.W. 15MHz, Sub Carrier 15kHz

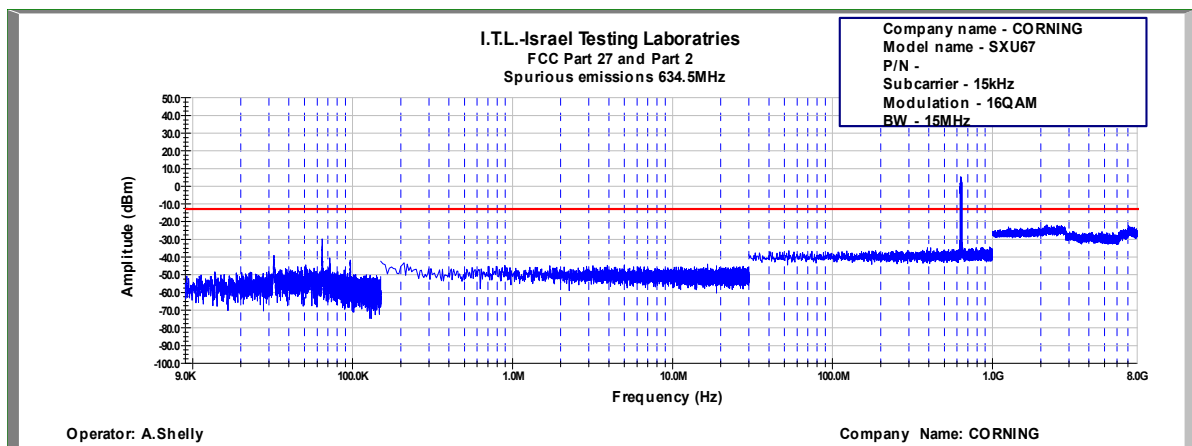


Figure 639: Spurious Emissions at Antenna Terminal 16QAM, 634.5MHz,
B.W. 15MHz, Sub Carrier 15kHz

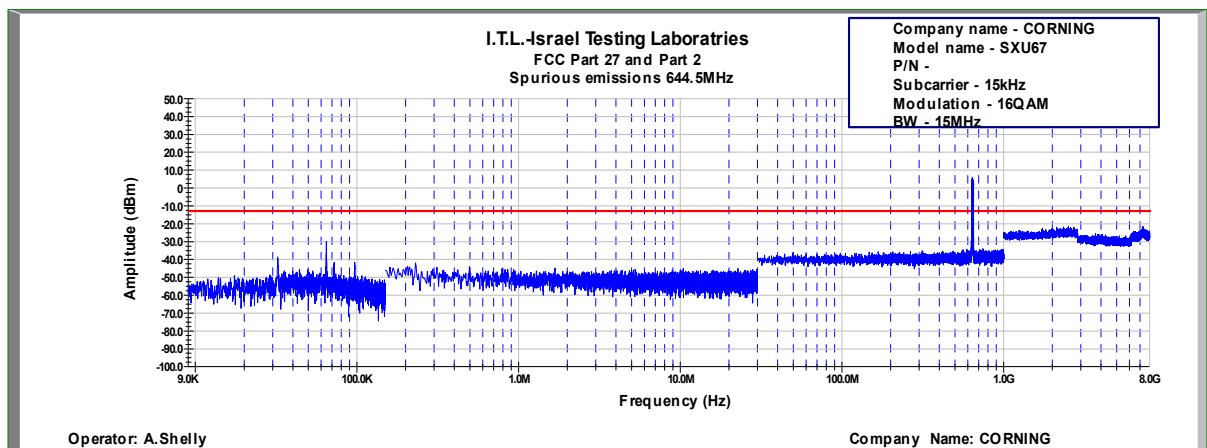


Figure 640: Spurious Emissions at Antenna Terminal 16QAM, 644.5MHz,
B.W. 15MHz, Sub Carrier 15kHz

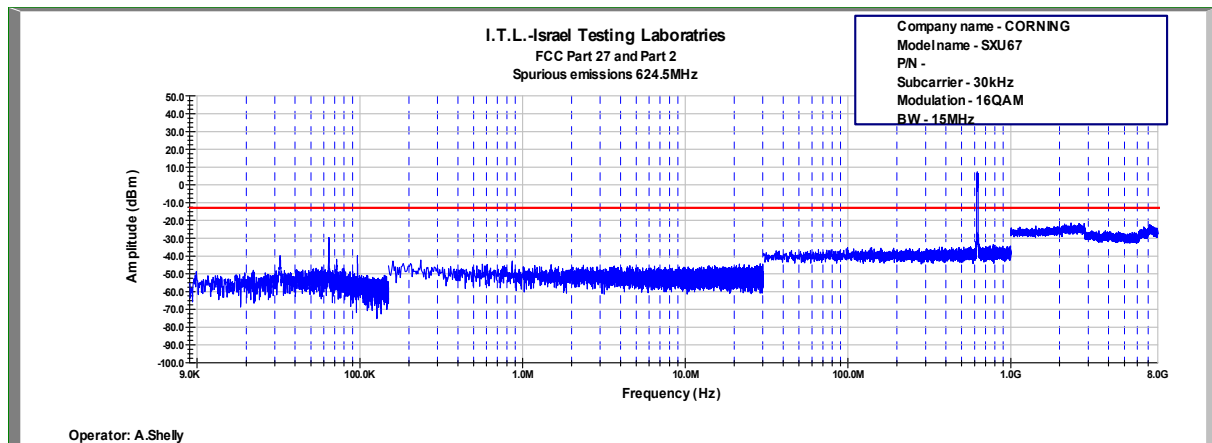


Figure 641: Spurious Emissions at Antenna Terminal 16QAM, 624.5MHz,
B.W. 15MHz, Sub Carrier 30kHz

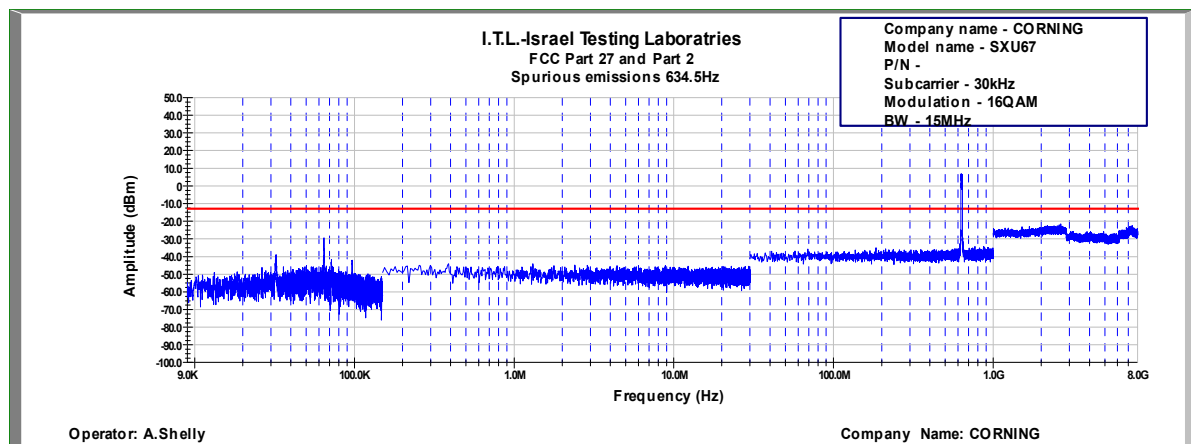


Figure 642: Spurious Emissions at Antenna Terminal 16QAM, 634.5MHz,
B.W. 15MHz, Sub Carrier 30kHz

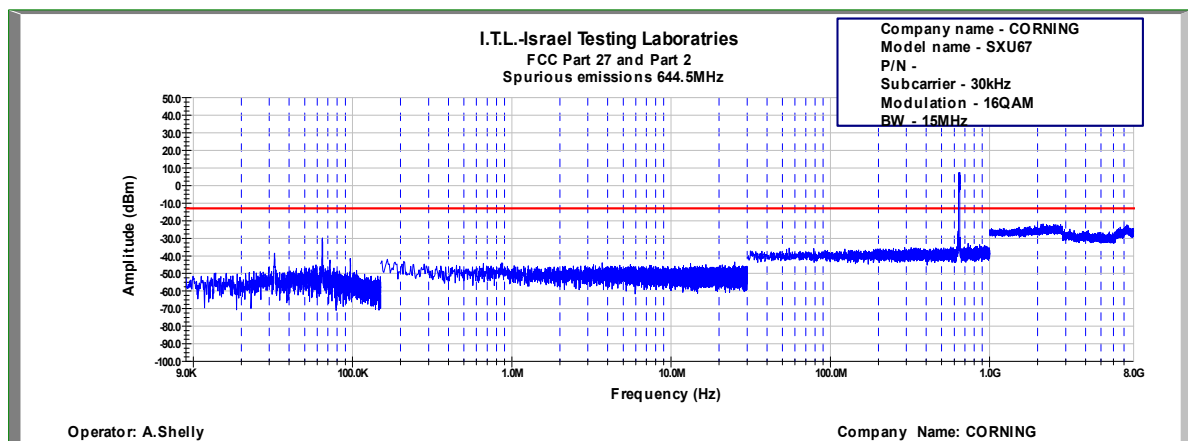
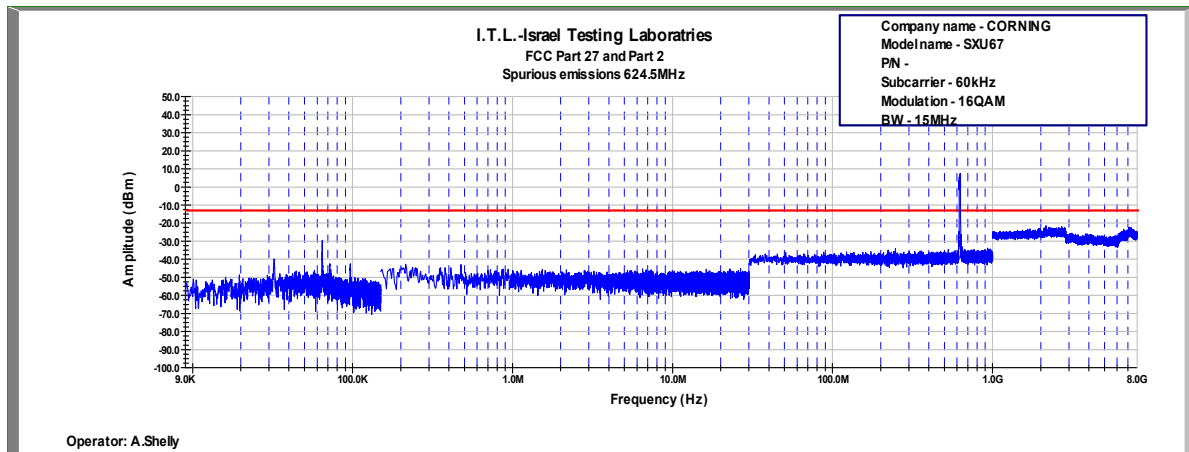
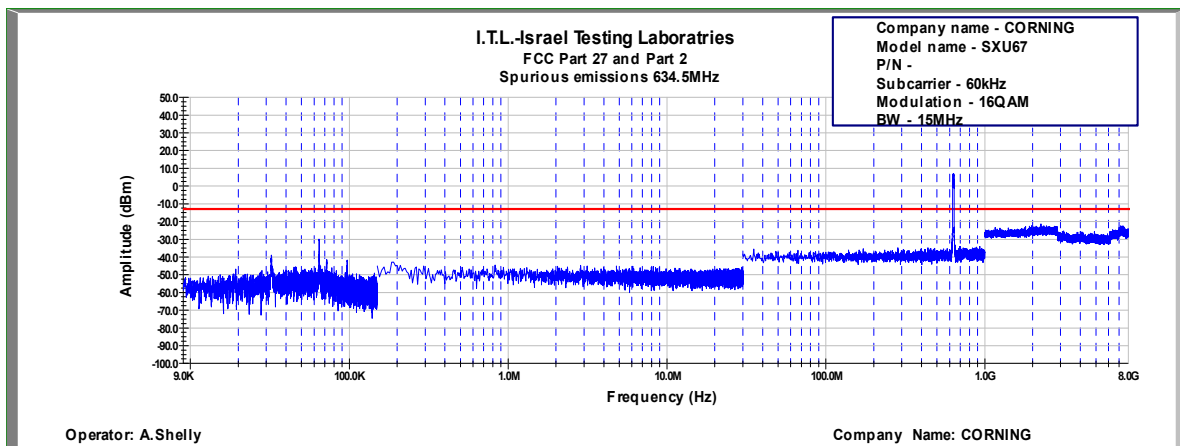


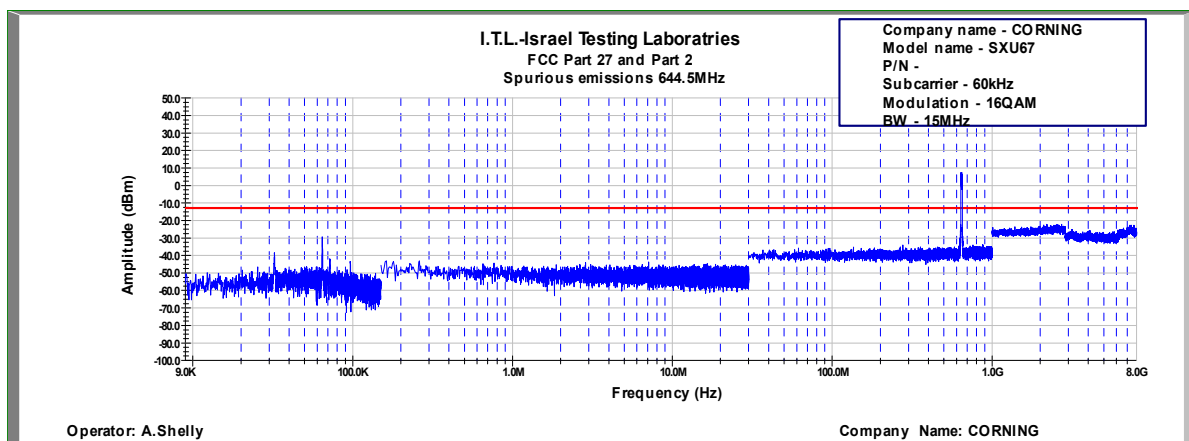
Figure 643: Spurious Emissions at Antenna Terminal 16QAM, 644.5MHz,
B.W. 15MHz, Sub Carrier 30kHz



**Figure 644: Spurious Emissions at Antenna Terminal 16QAM, 624.5MHz,
B.W. 15MHz, Sub Carrier 60kHz**



**Figure 645: Spurious Emissions at Antenna Terminal 16QAM, 634.5MHz,
B.W. 15MHz, Sub Carrier 60kHz**



**Figure 646: Spurious Emissions at Antenna Terminal 16QAM, 644.5MHz,
B.W. 15MHz, Sub Carrier 60kHz**

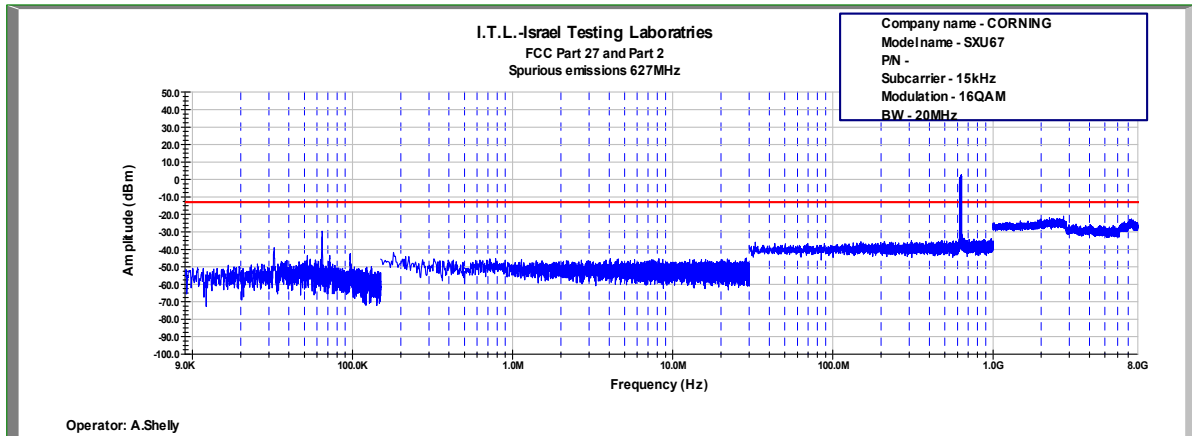


Figure 647: Spurious Emissions at Antenna Terminal 16QAM, 627.0MHz, B.W. 20MHz, Sub Carrier 15kHz

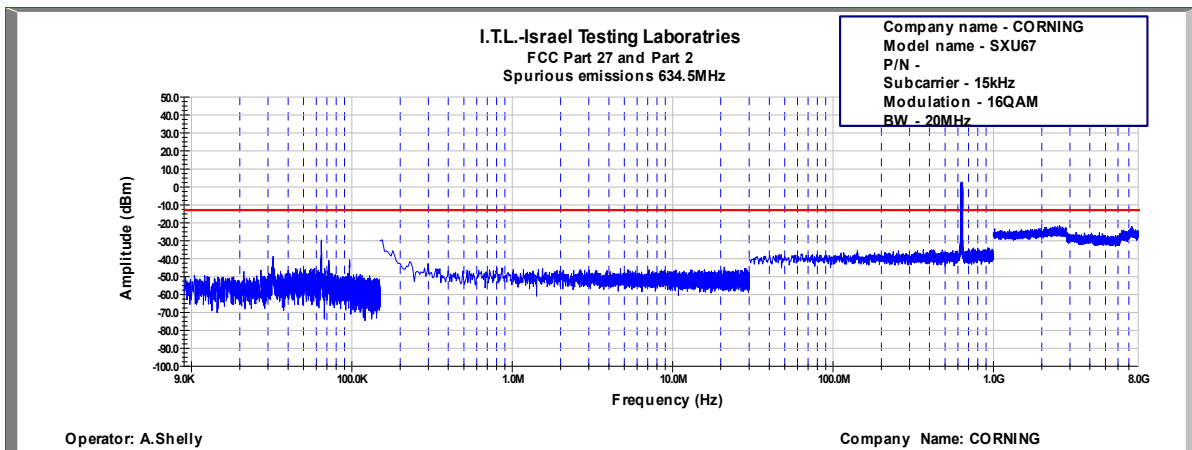


Figure 648: Spurious Emissions at Antenna Terminal 16QAM, 634.5MHz, B.W. 20MHz, Sub Carrier 15kHz

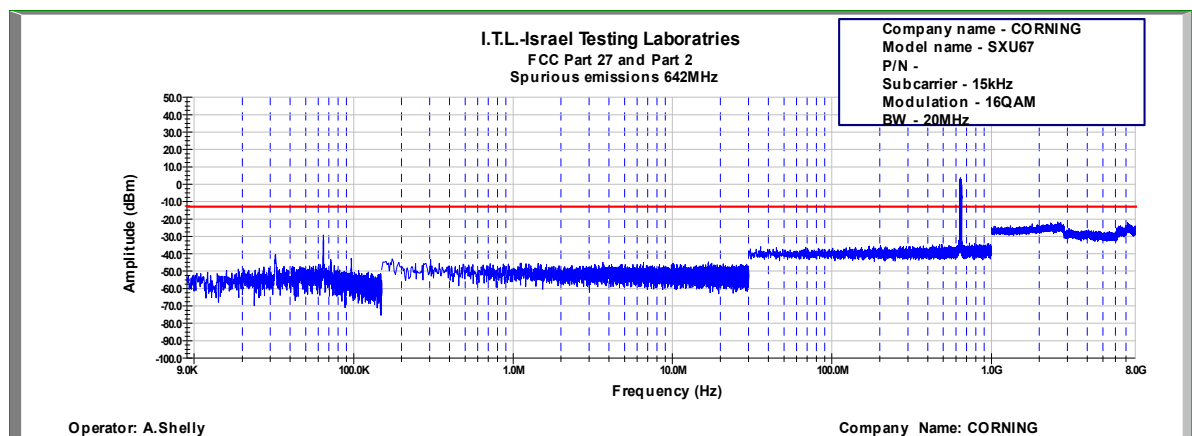


Figure 649: Spurious Emissions at Antenna Terminal 16QAM, 642.0MHz, B.W. 20MHz, Sub Carrier 15kHz

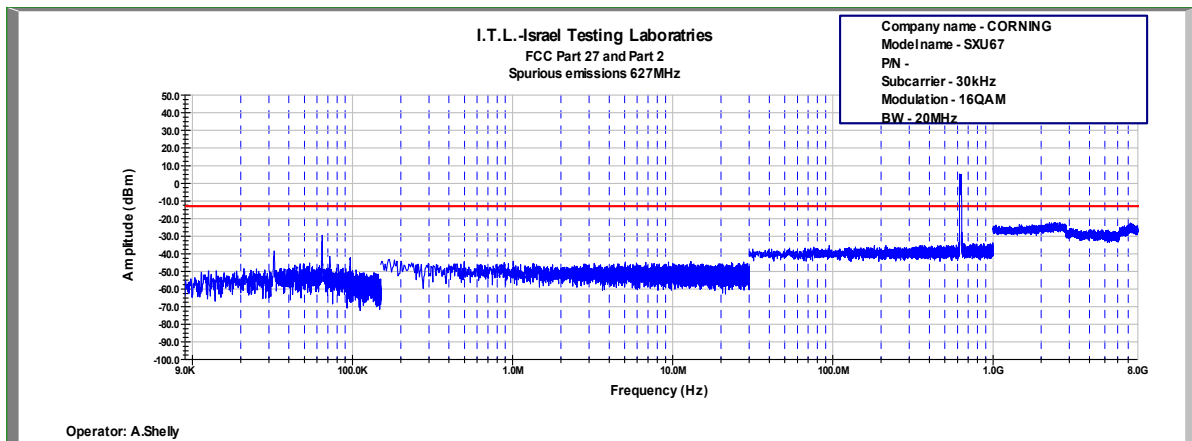


Figure 650: Spurious Emissions at Antenna Terminal 16QAM, 627.0MHz, B.W. 20MHz, Sub Carrier 30kHz

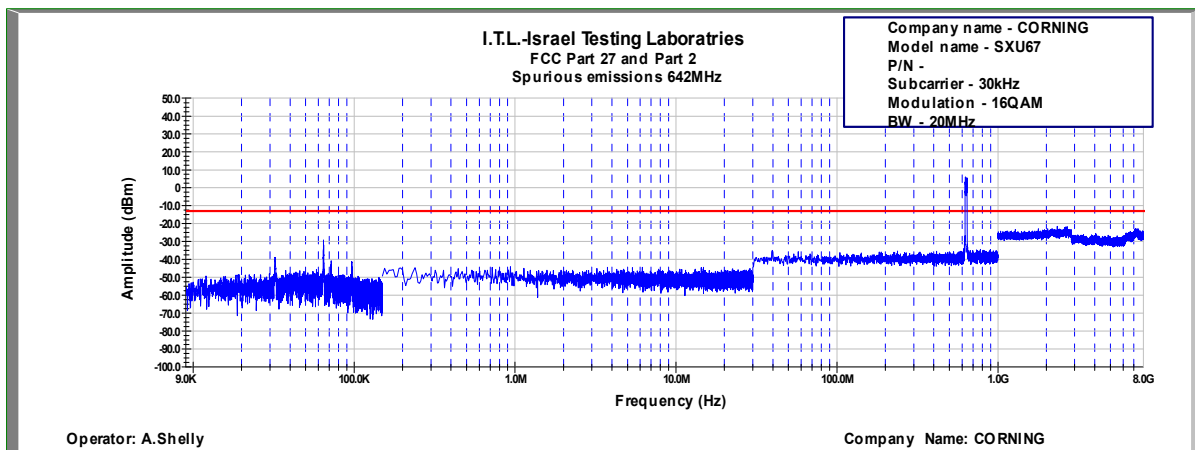


Figure 651: Spurious Emissions at Antenna Terminal 16QAM, 634.5MHz, B.W. 20MHz, Sub Carrier 30kHz

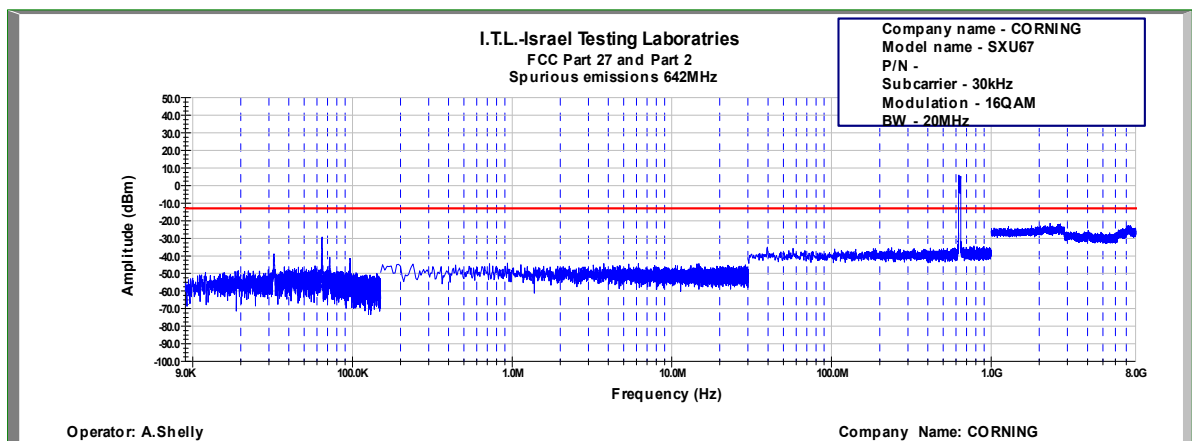


Figure 652: Spurious Emissions at Antenna Terminal 16QAM, 642.0MHz, B.W. 20MHz, Sub Carrier 30kHz

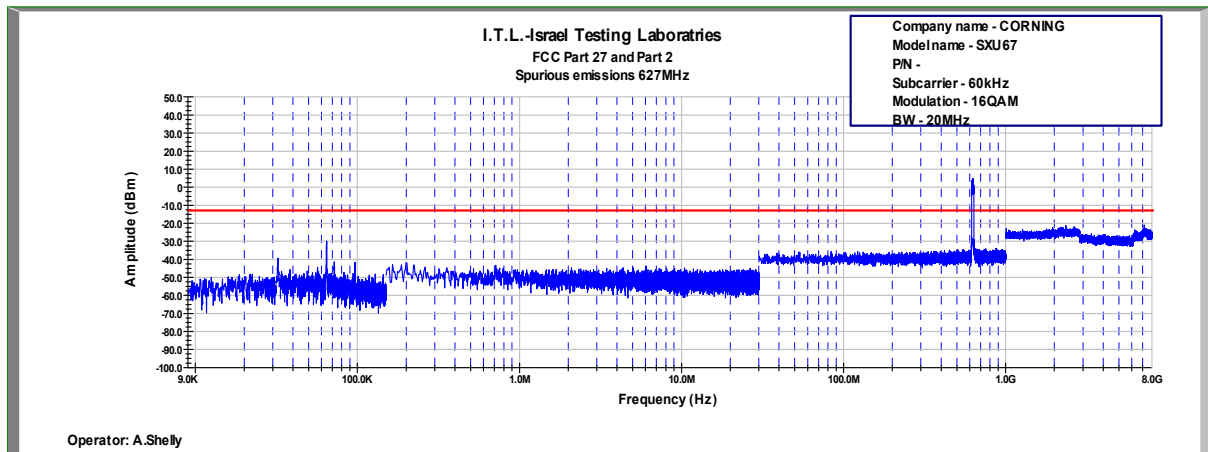


Figure 653: Spurious Emissions at Antenna Terminal 16QAM, 627.0MHz, B.W. 20MHz, Sub Carrier 60kHz

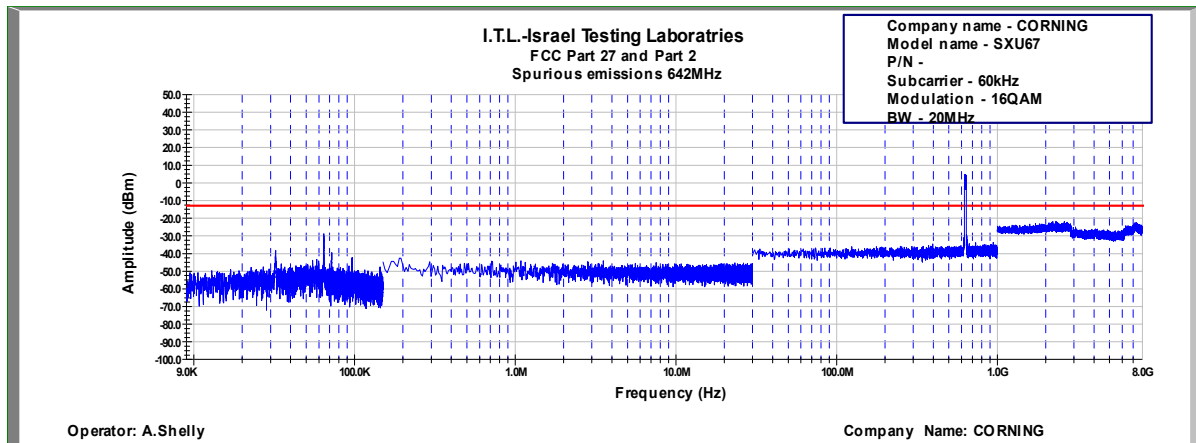


Figure 654: Spurious Emissions at Antenna Terminal 16QAM, 634.5MHz, B.W. 20MHz, Sub Carrier 60kHz

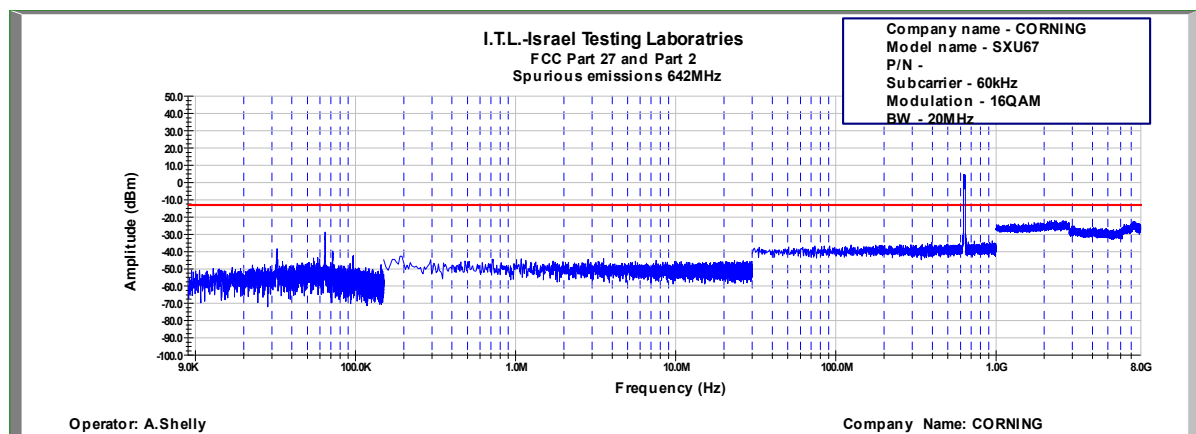


Figure 655: Spurious Emissions at Antenna Terminal 16QAM, 642.0MHz, B.W. 20MHz, Sub Carrier 60kHz

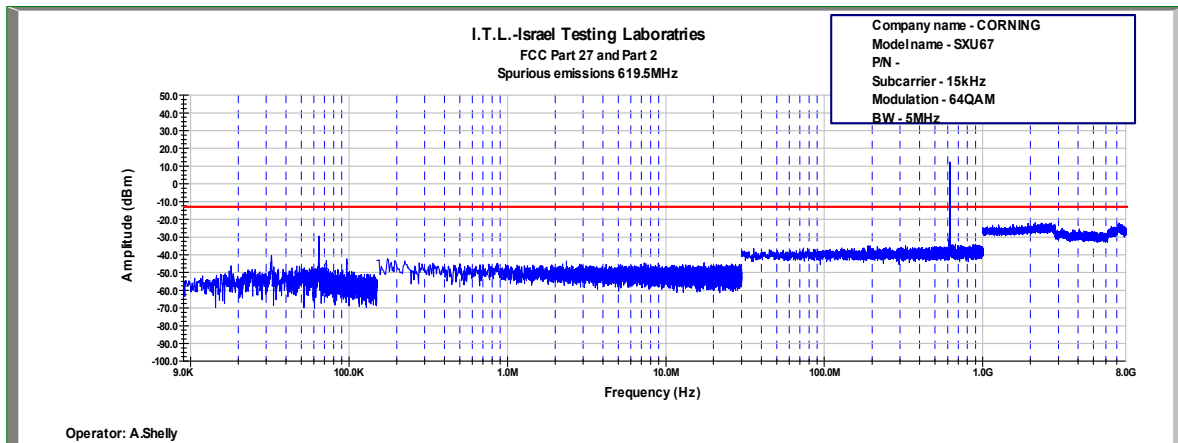


Figure 656: Spurious Emissions at Antenna Terminal 64QAM, 619.5MHz, B.W. 5MHz, Sub Carrier 15kHz

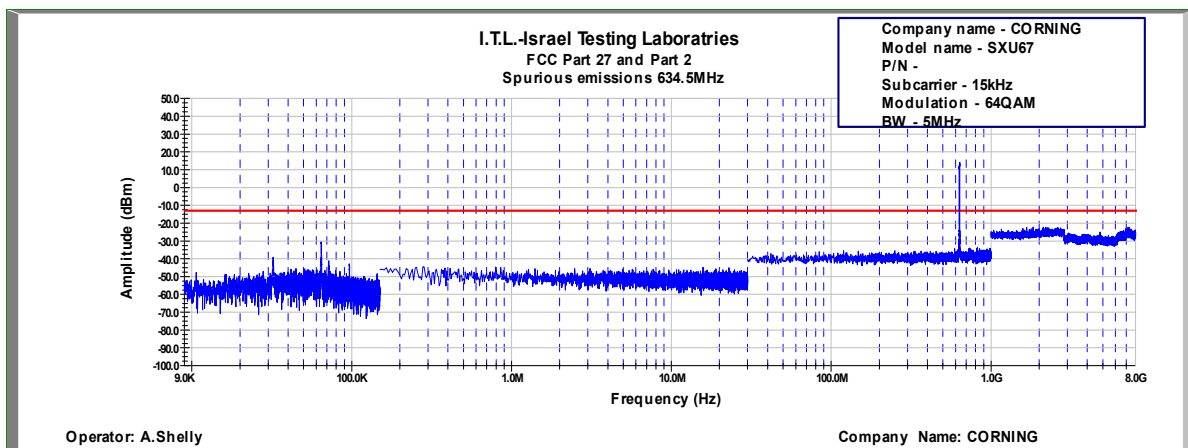


Figure 657: Spurious Emissions at Antenna Terminal 64QAM, 634.5MHz, B.W. 5MHz, Sub Carrier 15kHz

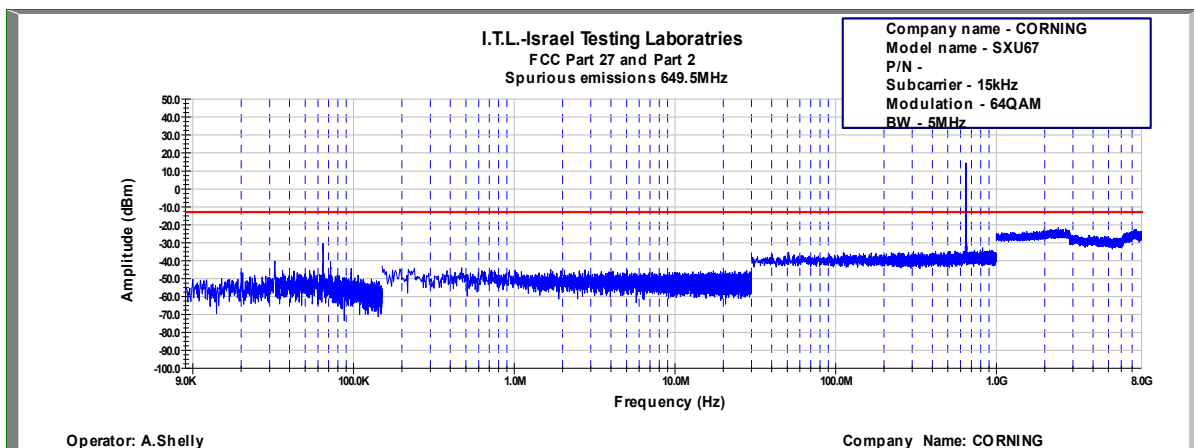


Figure 658: Spurious Emissions at Antenna Terminal 64QAM, 649.5MHz, B.W. 5MHz, Sub Carrier 15kHz

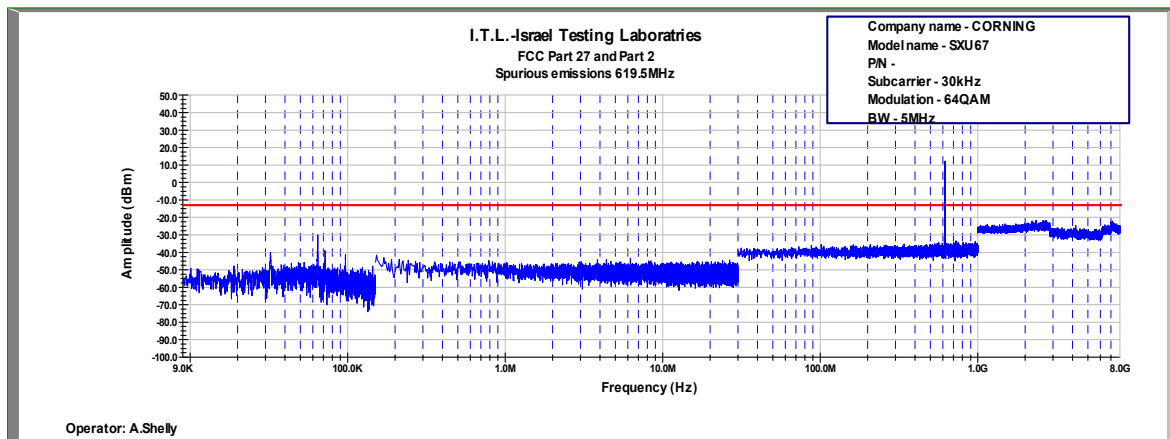


Figure 659: Spurious Emissions at Antenna Terminal 64QAM, 619.5MHz,
B.W. 5MHz, Sub Carrier 30kHz

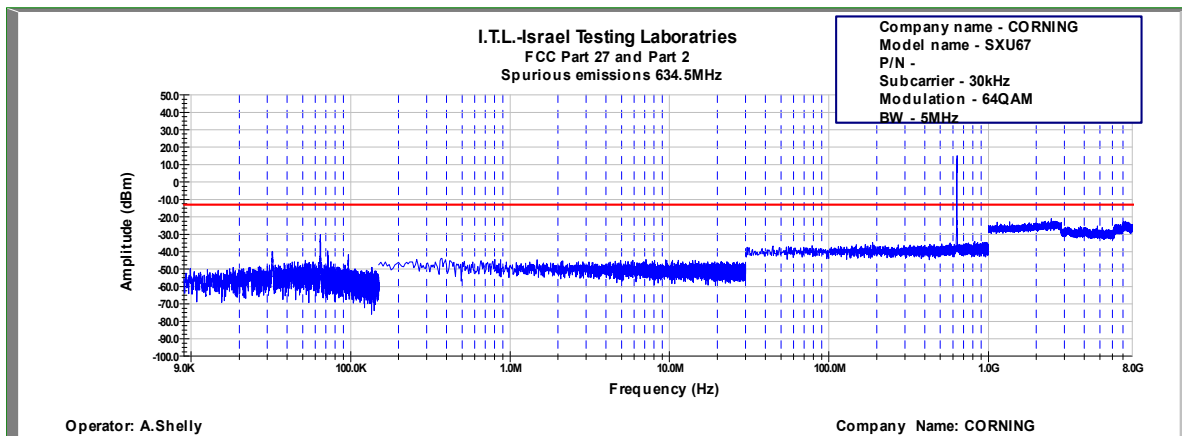


Figure 660: Spurious Emissions at Antenna Terminal 64QAM, 634.5MHz,
B.W. 5MHz, Sub Carrier 30kHz

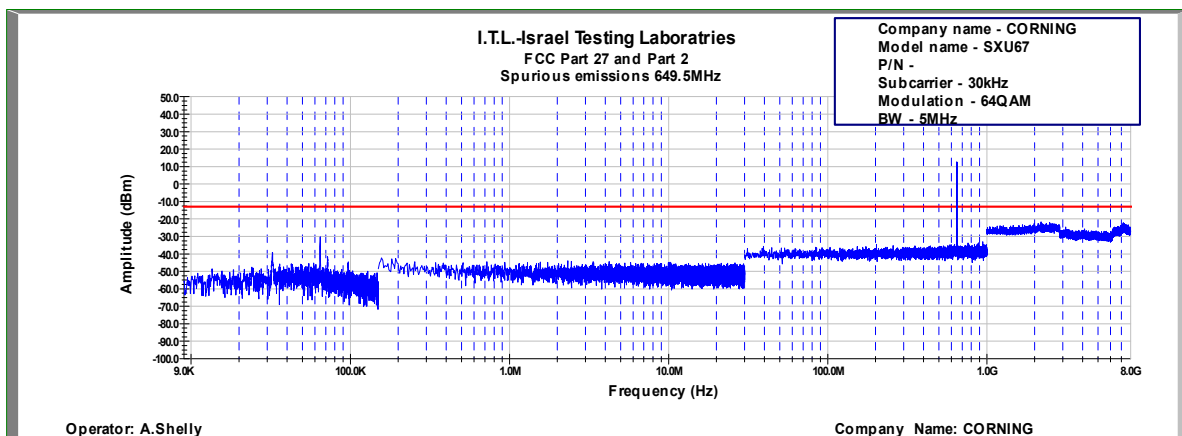


Figure 661: Spurious Emissions at Antenna Terminal 64QAM, 649.5MHz,
B.W. 5MHz, Sub Carrier 30kHz

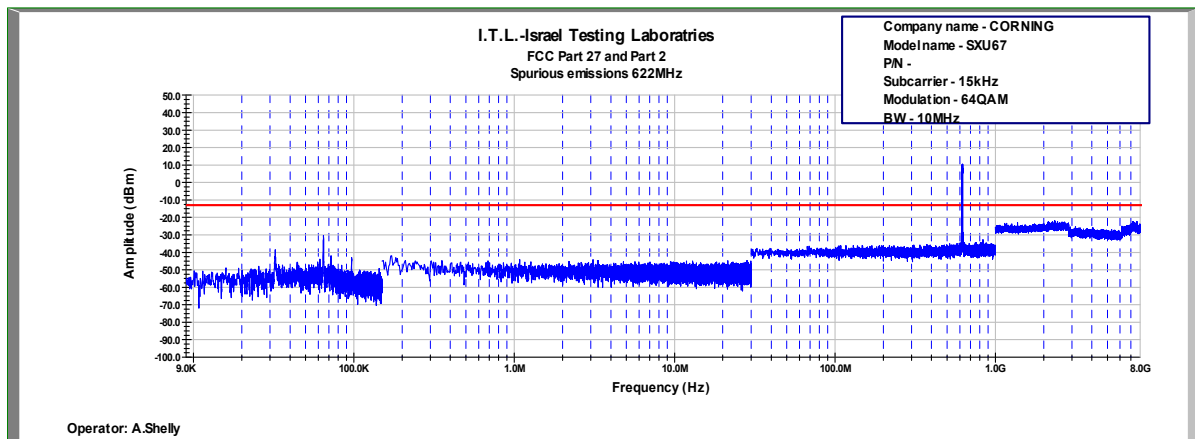


Figure 662: Spurious Emissions at Antenna Terminal 64QAM, 622.0MHz, B.W. 10MHz, Sub Carrier 15kHz

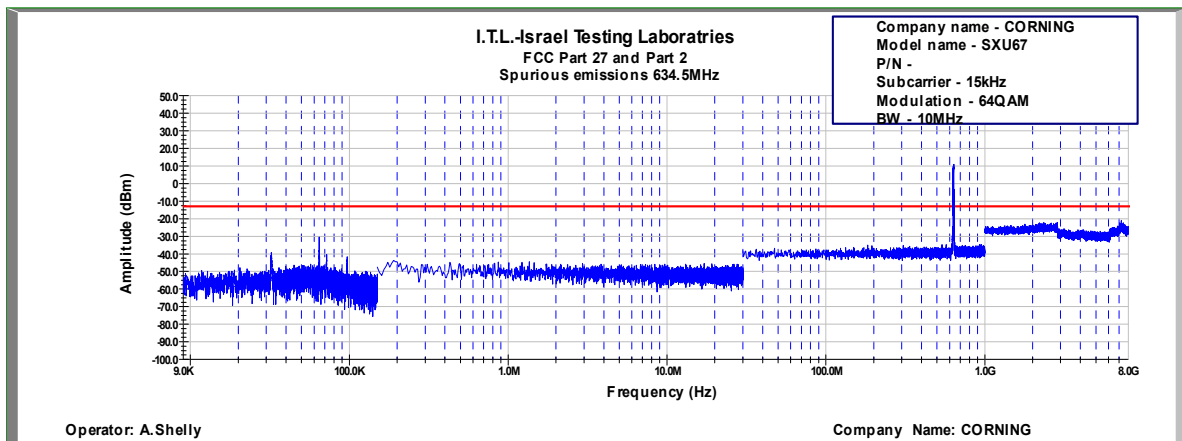


Figure 663: Spurious Emissions at Antenna Terminal 64QAM, 634.5MHz, B.W. 10MHz, Sub Carrier 15kHz

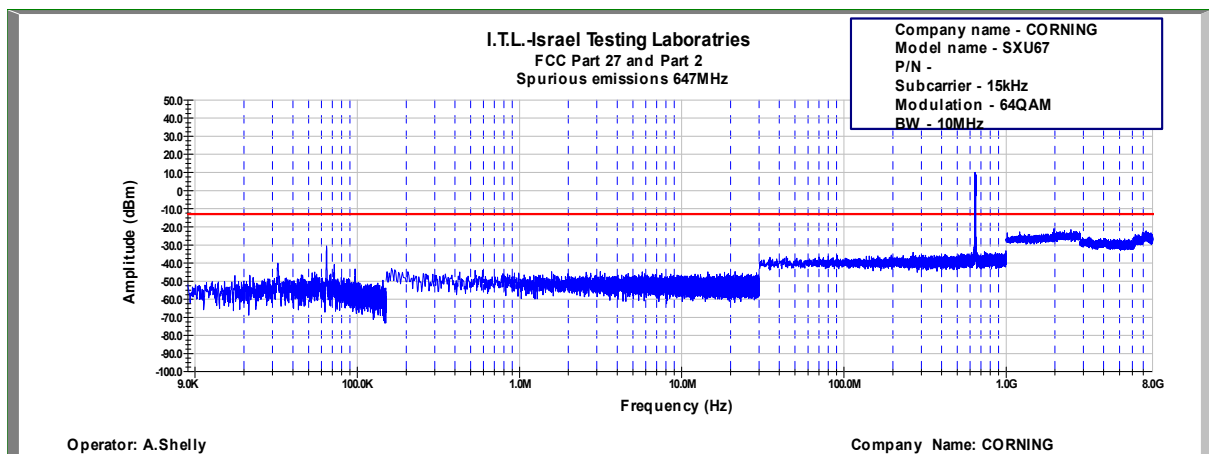


Figure 664: Spurious Emissions at Antenna Terminal 64QAM, 647.0MHz, B.W. 10MHz, Sub Carrier 15kHz

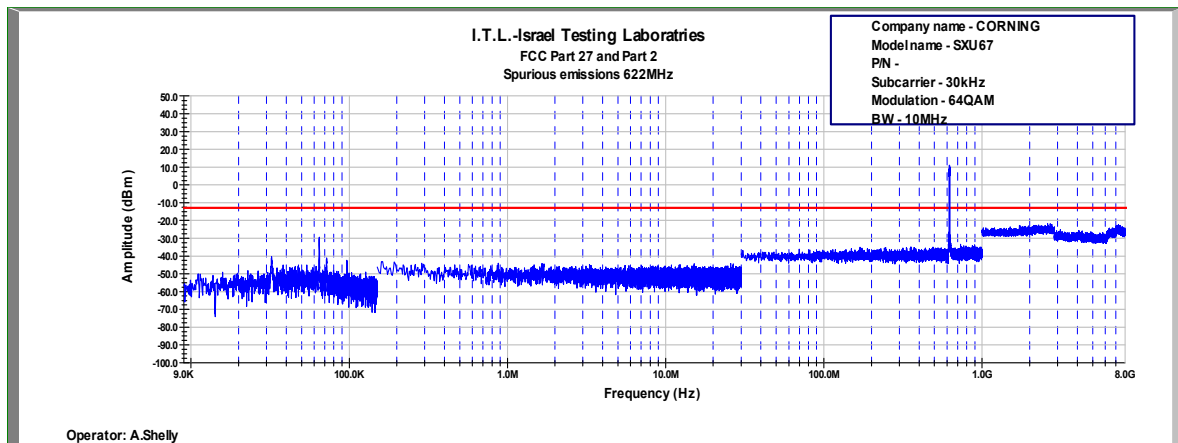


Figure 665: Spurious Emissions at Antenna Terminal 64QAM, 622.0MHz,
B.W. 10MHz, Sub Carrier 30kHz

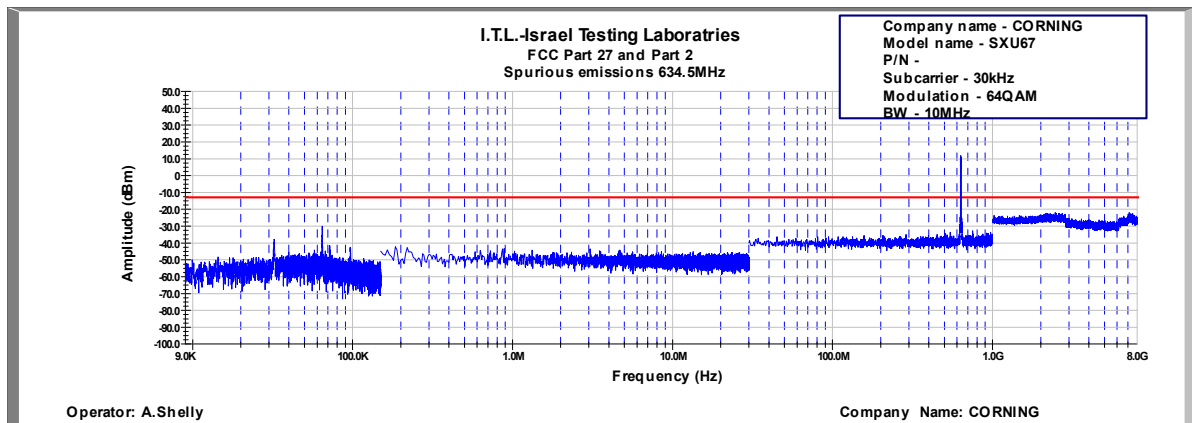


Figure 666: Spurious Emissions at Antenna Terminal 64QAM, 634.5MHz,
B.W. 10MHz, Sub Carrier 30kHz

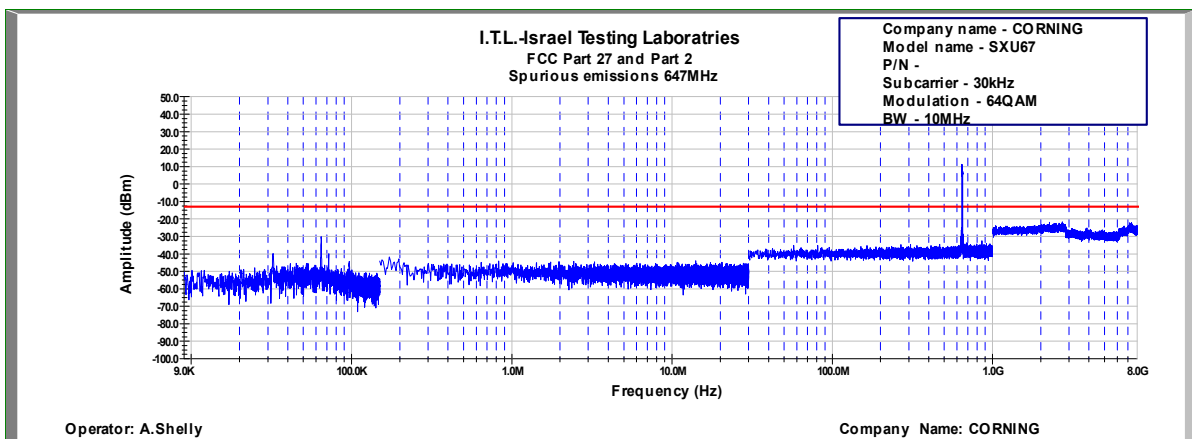


Figure 667: Spurious Emissions at Antenna Terminal 64QAM, 647.0MHz,
B.W. 10MHz, Sub Carrier 30kHz

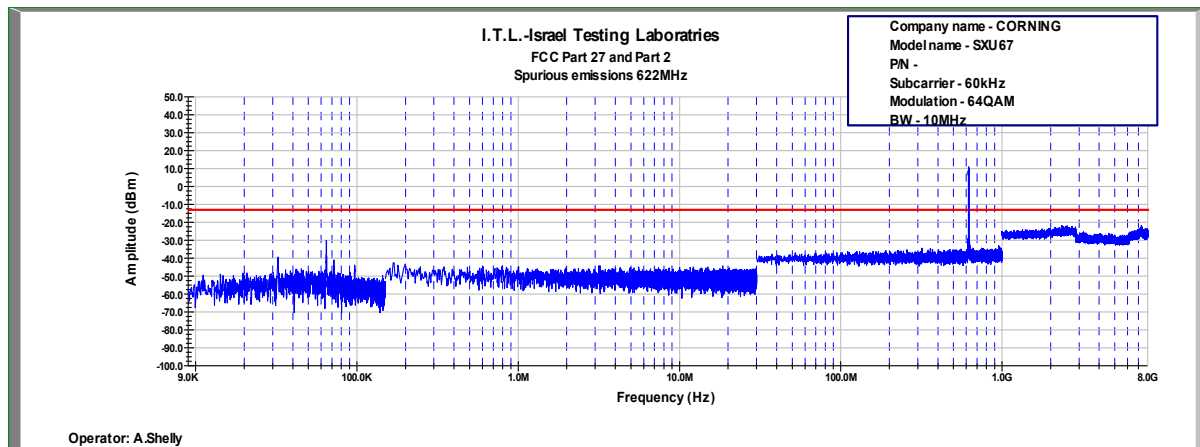


Figure 668: Spurious Emissions at Antenna Terminal 64QAM, 622.0MHz, B.W. 10MHz, Sub Carrier 60kHz

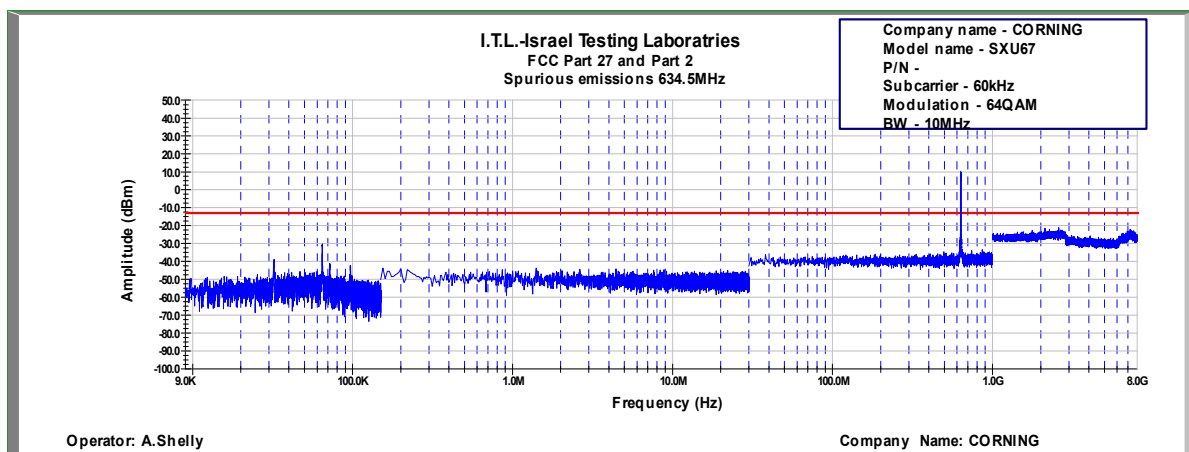


Figure 669: Spurious Emissions at Antenna Terminal 64QAM, 634.5MHz, B.W. 10MHz, Sub Carrier 60kHz

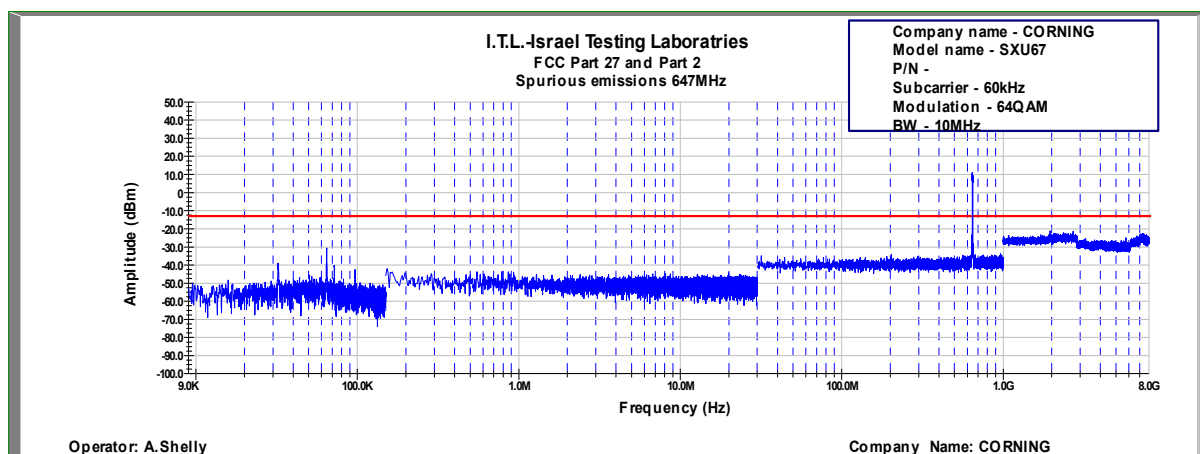


Figure 670: Spurious Emissions at Antenna Terminal 64QAM, 647.0MHz, B.W. 10MHz, Sub Carrier 60kHz

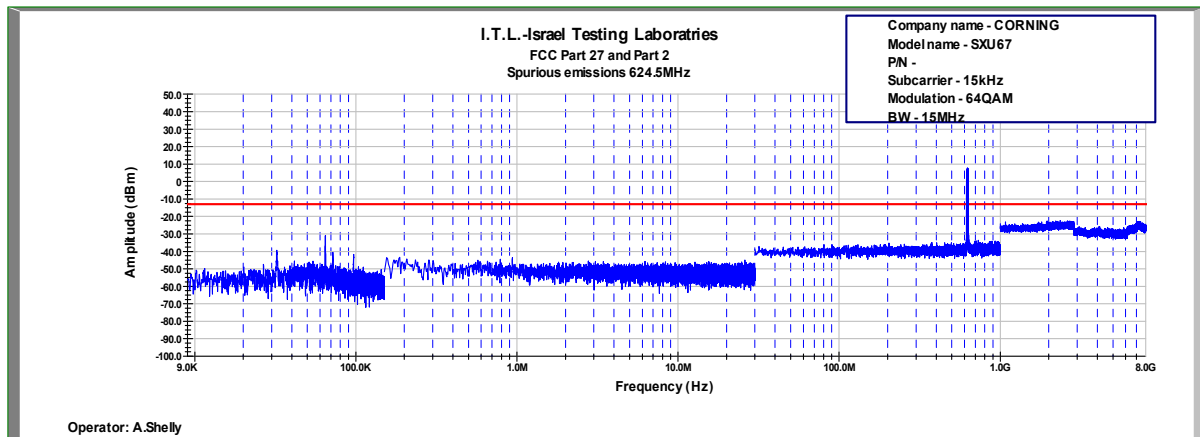


Figure 671: Spurious Emissions at Antenna Terminal 64QAM, 624.5MHz, B.W. 15MHz, Sub Carrier 15kHz

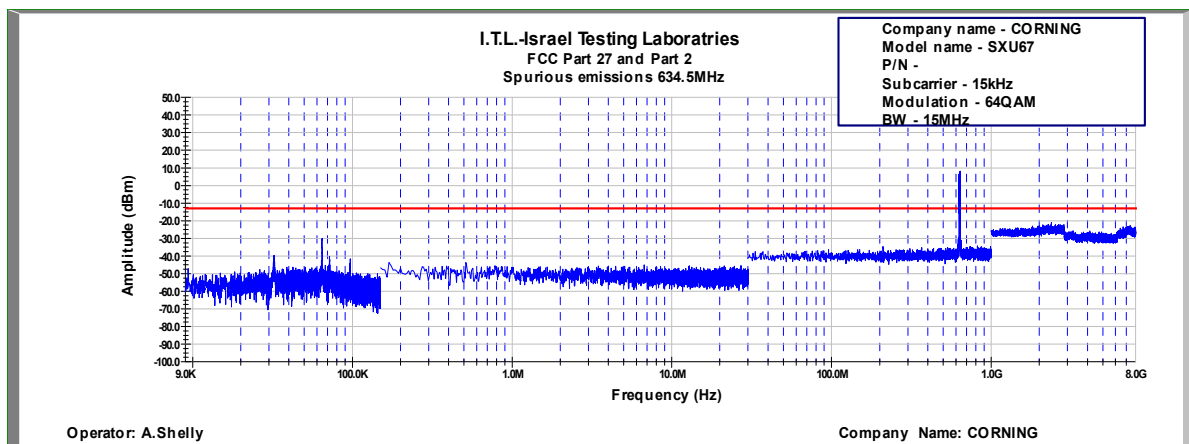


Figure 672: Spurious Emissions at Antenna Terminal 64QAM, 634.5MHz, B.W. 15MHz, Sub Carrier 15kHz

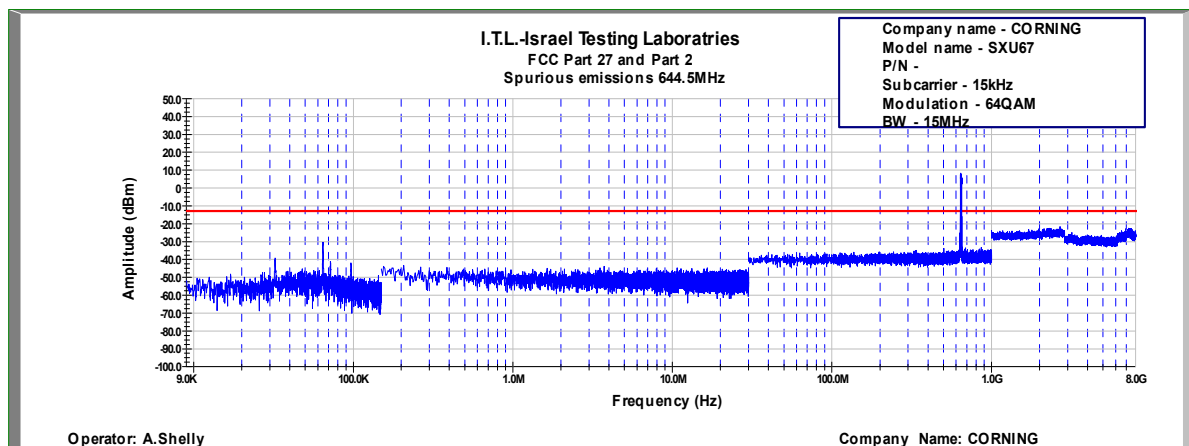


Figure 673: Spurious Emissions at Antenna Terminal 64QAM, 644.5MHz, B.W. 15MHz, Sub Carrier 15kHz

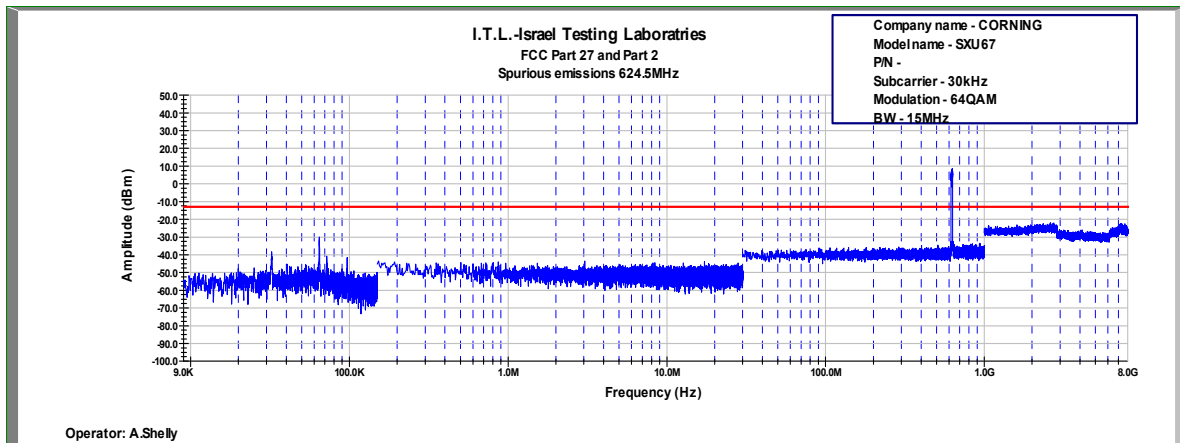


Figure 674: Spurious Emissions at Antenna Terminal 64QAM, 624.5MHz, B.W. 15MHz, Sub Carrier 30kHz

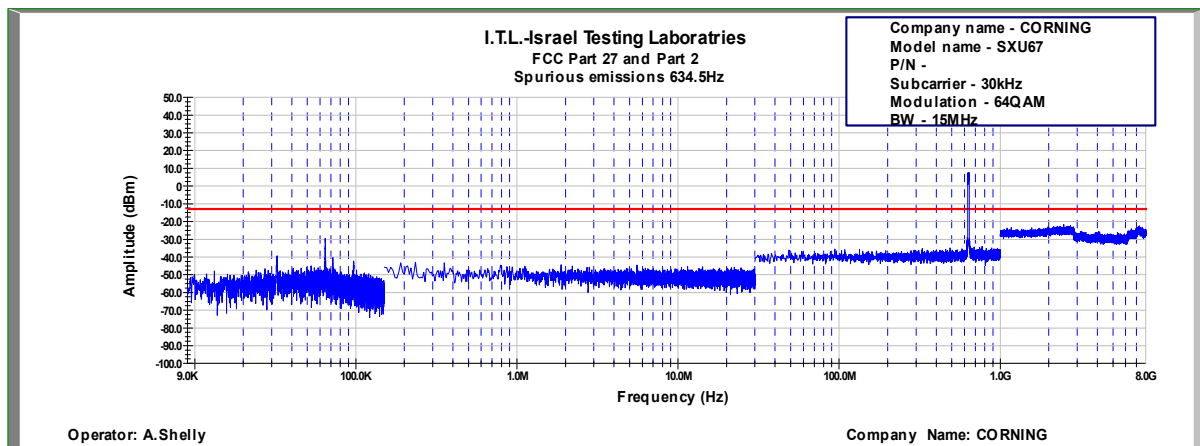


Figure 675: Spurious Emissions at Antenna Terminal 64QAM, 634.5MHz, B.W. 15MHz, Sub Carrier 30kHz

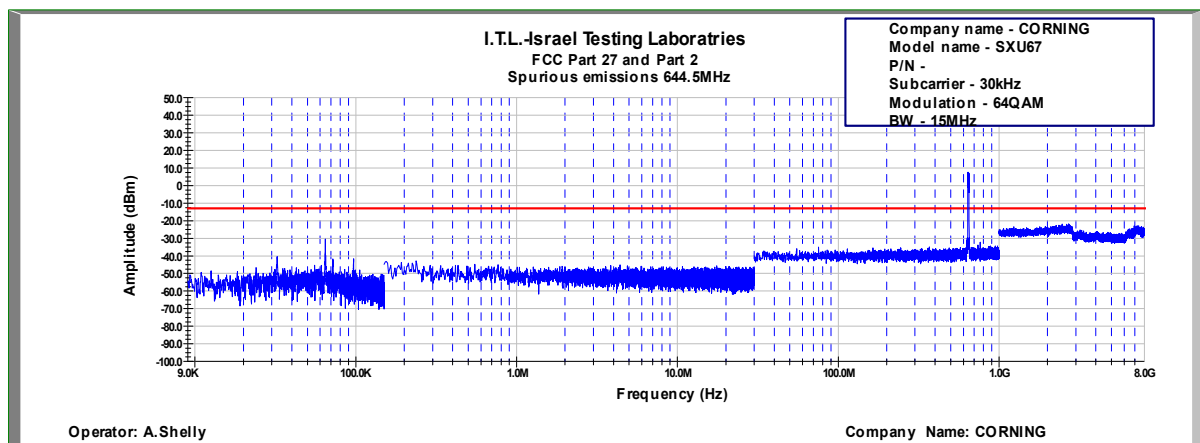


Figure 676: Spurious Emissions at Antenna Terminal 64QAM, 644.5MHz, B.W. 15MHz, Sub Carrier 30kHz

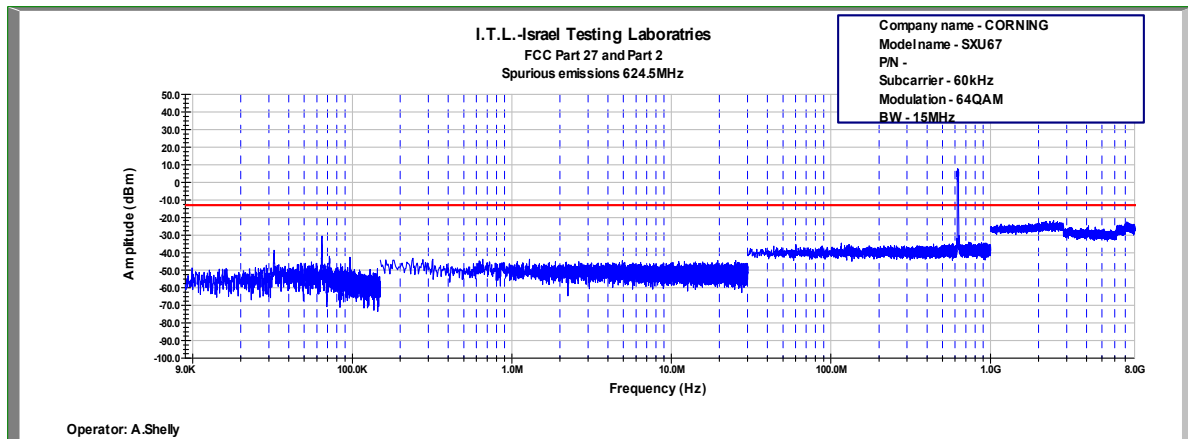


Figure 677: Spurious Emissions at Antenna Terminal 64QAM, 624.5MHz, B.W. 15MHz, Sub Carrier 60kHz

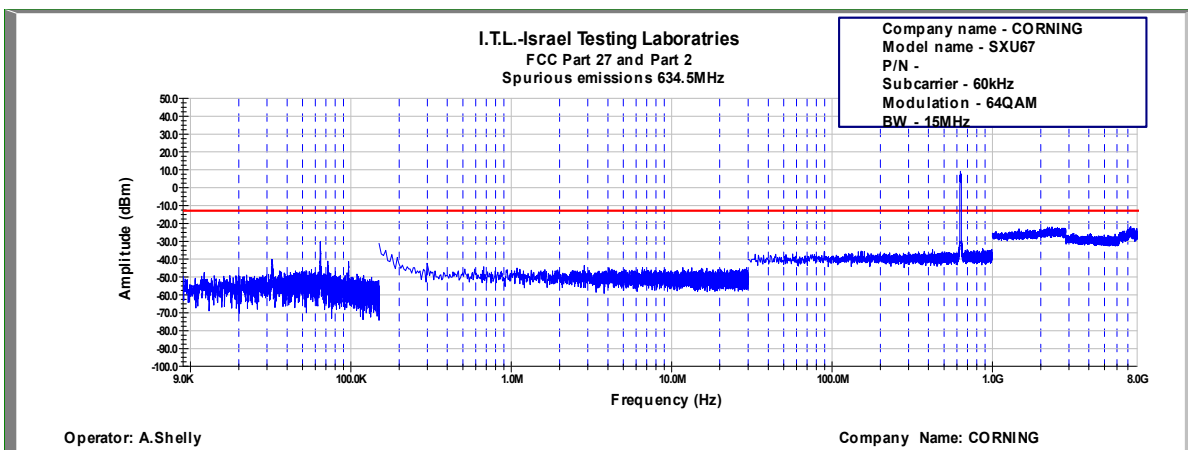


Figure 678: Spurious Emissions at Antenna Terminal 64QAM, 634.5MHz, B.W. 15MHz, Sub Carrier 60kHz

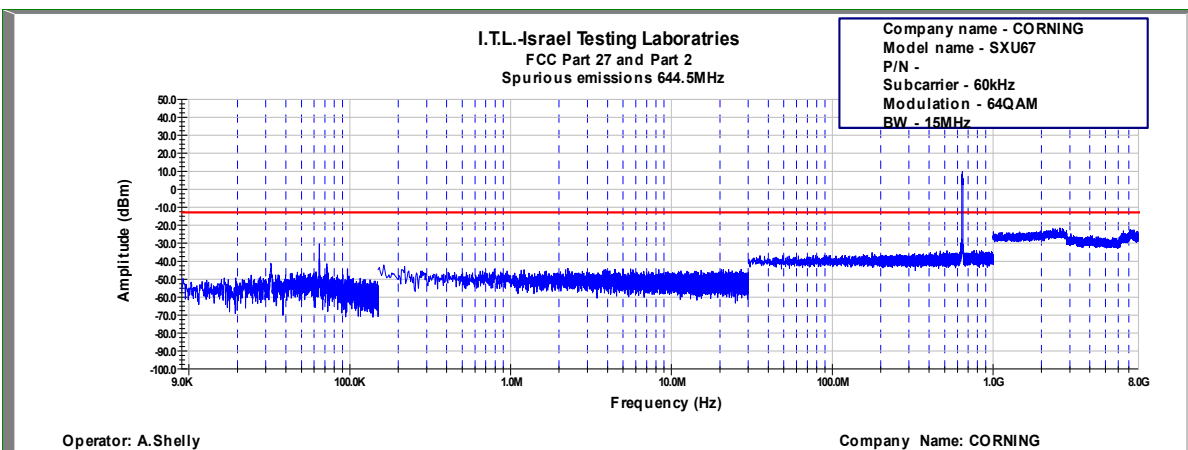


Figure 679: Spurious Emissions at Antenna Terminal 64QAM, 644.5MHz, B.W. 15MHz, Sub Carrier 60kHz

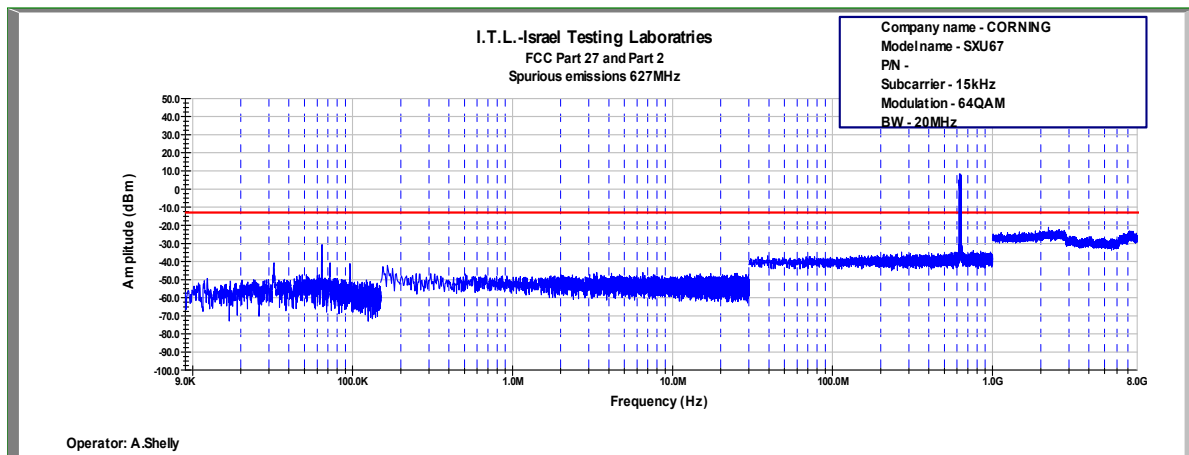


Figure 680: Spurious Emissions at Antenna Terminal 64QAM, 627.0MHz, B.W. 20MHz, Sub Carrier 15kHz

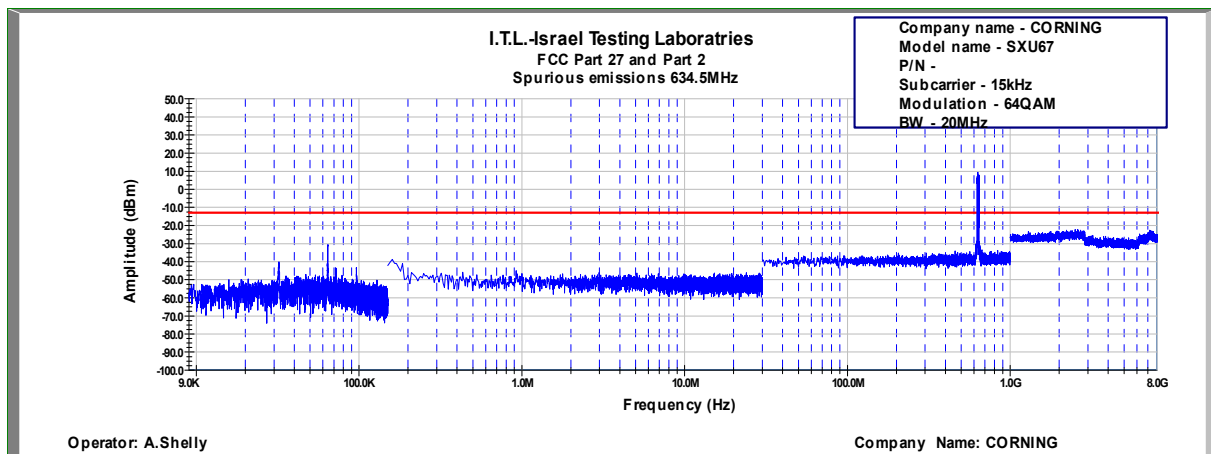


Figure 681: Spurious Emissions at Antenna Terminal 64QAM, 634.5MHz, B.W. 20MHz, Sub Carrier 15kHz

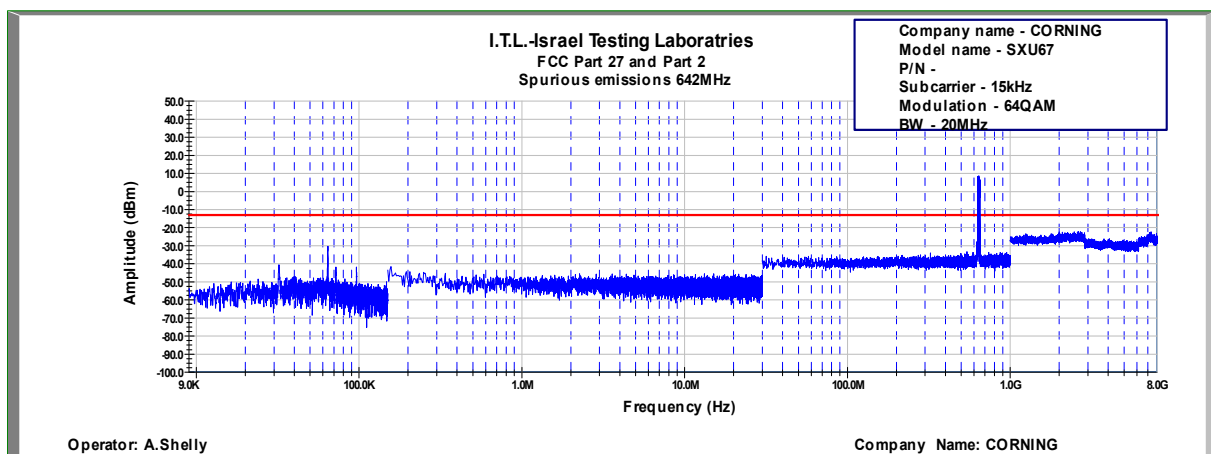


Figure 682: Spurious Emissions at Antenna Terminal 64QAM, 642.0MHz, B.W. 20MHz, Sub Carrier 15kHz

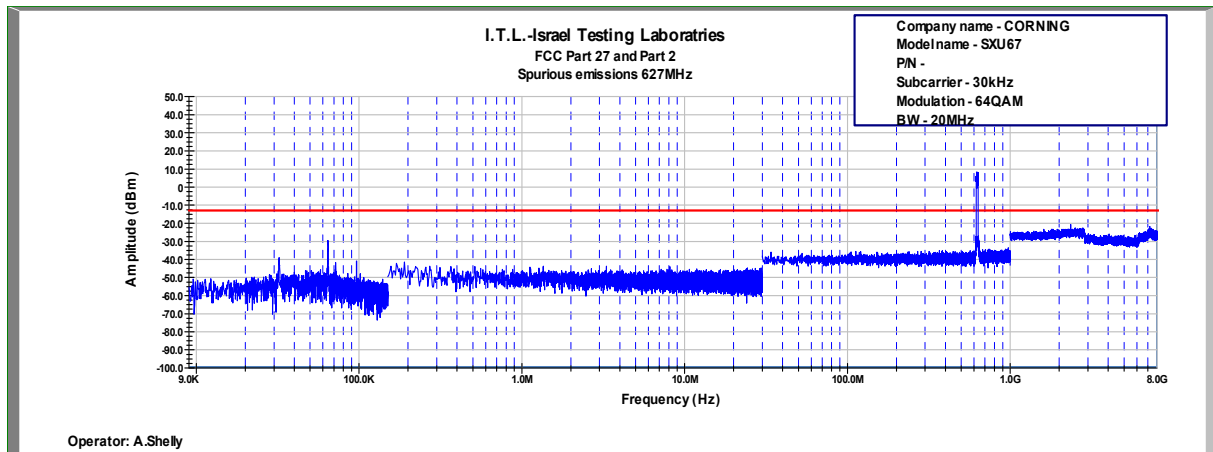


Figure 683: Spurious Emissions at Antenna Terminal 64QAM, 627.0MHz,
B.W. 20MHz, Sub Carrier 30kHz

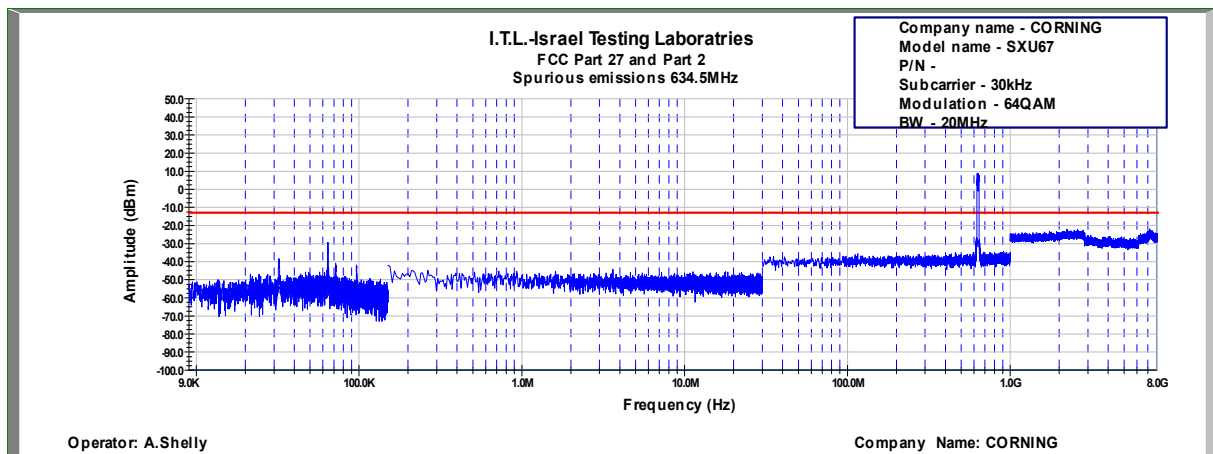


Figure 684: Spurious Emissions at Antenna Terminal 64QAM, 634.5MHz,
B.W. 20MHz, Sub Carrier 30kHz

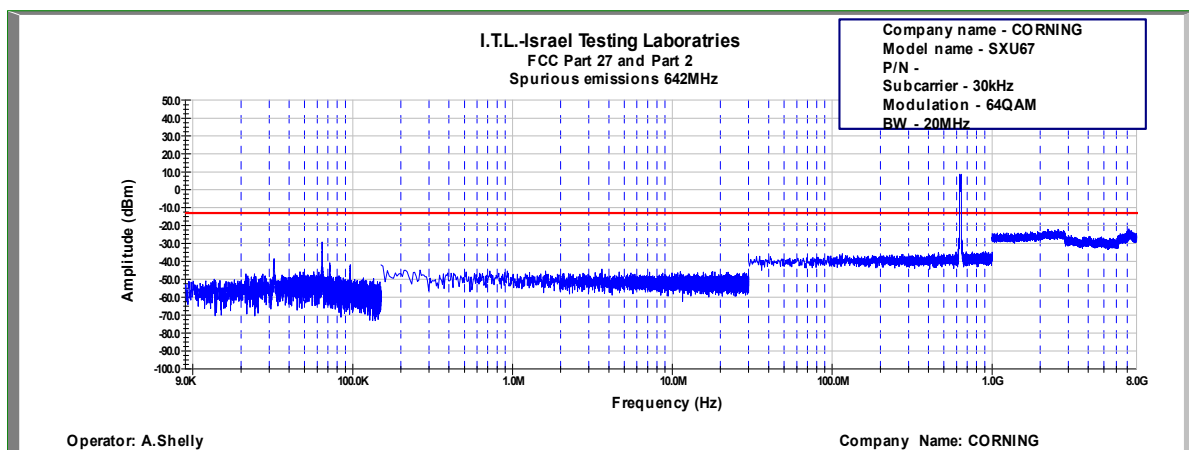


Figure 685: Spurious Emissions at Antenna Terminal 64QAM, 642.0MHz,
B.W. 20MHz, Sub Carrier 30kHz

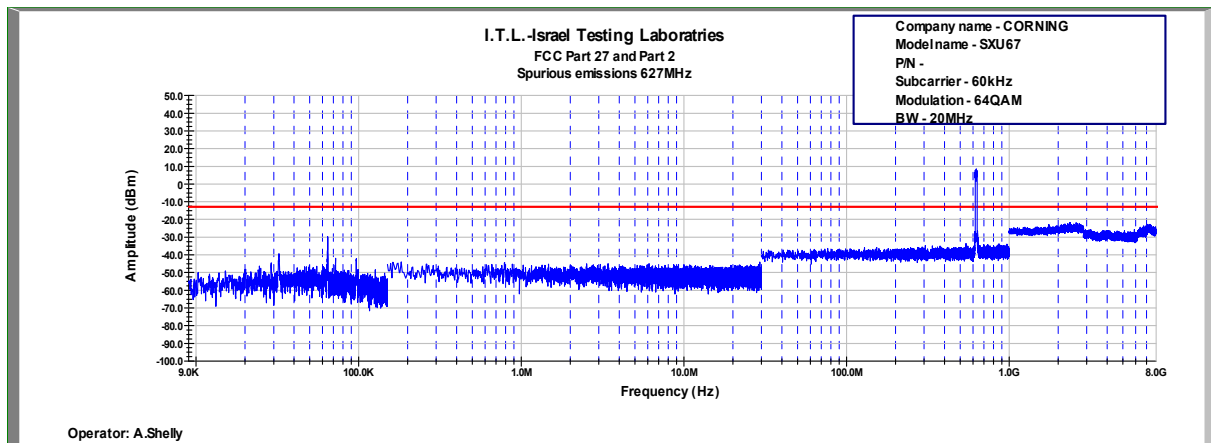


Figure 686: Spurious Emissions at Antenna Terminal 64QAM, 627.0MHz, B.W. 20MHz, Sub Carrier 60kHz

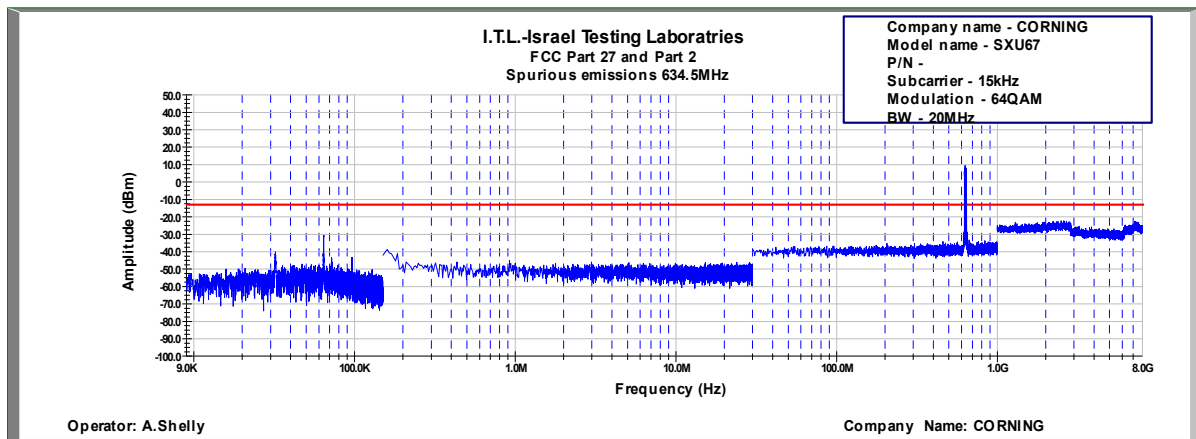


Figure 687: Spurious Emissions at Antenna Terminal 64QAM, 634.5MHz, B.W. 20MHz, Sub Carrier 60kHz

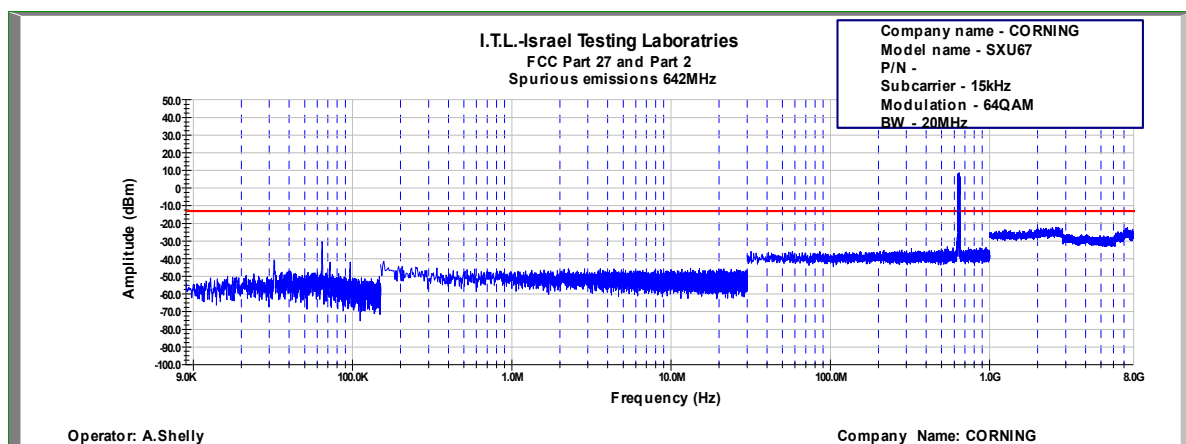


Figure 688: Spurious Emissions at Antenna Terminal 64QAM, 642.0MHz, B.W. 20MHz, Sub Carrier 60kHz