

6 Spurious Emissions at Antenna Terminals

6.1 Test Specification

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

6.2 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 34.0 dB).

The evaluation was performed in the frequency band from 9.0kHz-27.0GHz without band edges tests, and for each modulation separately

6.3 Test Limit

The power of any emission outside of the authorized operating frequency ranges (2496.0-2690.0 MHz) must be attenuated below the transmitting power (P) by a factor of $43 + 10 \log (P) \text{ dB} = -13 \text{ dBm}$.

6.4 Test Results

JUDGEMENT: Passed

See additional information in Figure 441 to Figure 584.

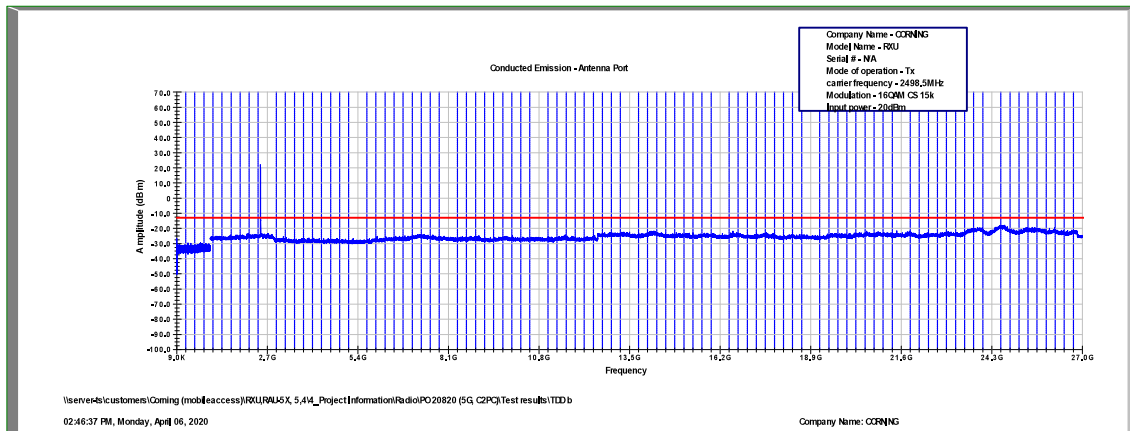


Figure 441: Spurious Emissions at Antenna Terminal 16QAM, 2498.5MHz, B.W. 5MHz, Sub Carrier 15kHz

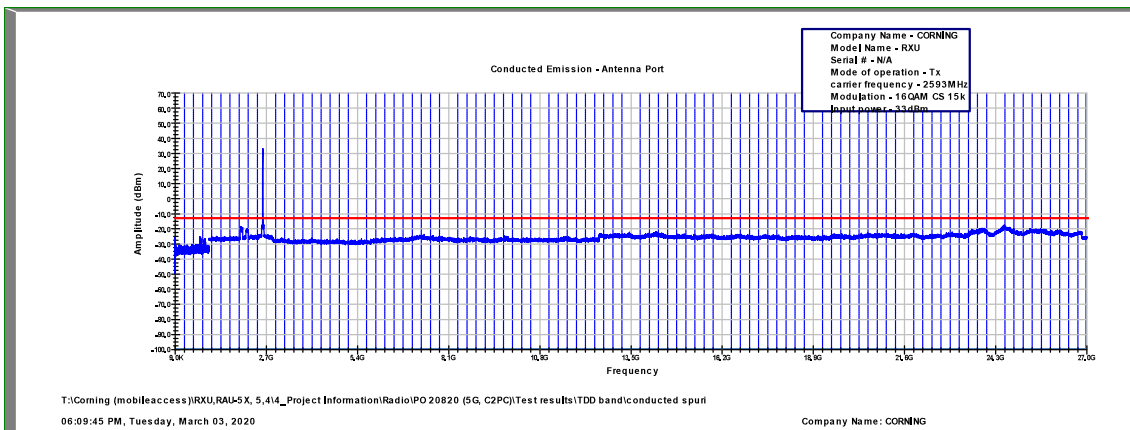


Figure 442: Spurious Emissions at Antenna Terminal 16QAM, 2593.0MHz, B.W. 5MHz, Sub Carrier 15kHz

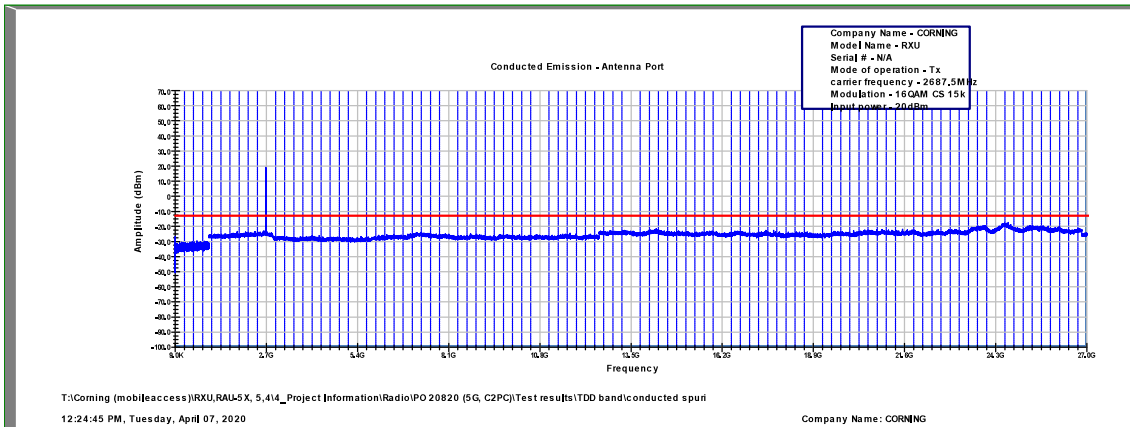


Figure 443: Spurious Emissions at Antenna Terminal 16QAM, 2687.5MHz, B.W. 5MHz, Sub Carrier 15kHz

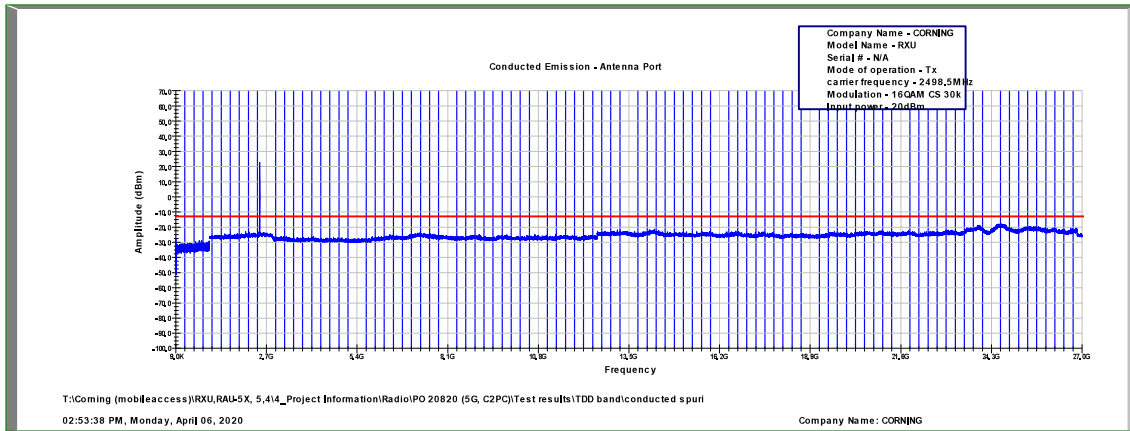


Figure 444: Spurious Emissions at Antenna Terminal 16QAM, 2498.5MHz, B.W. 5MHz, Sub Carrier 30kHz

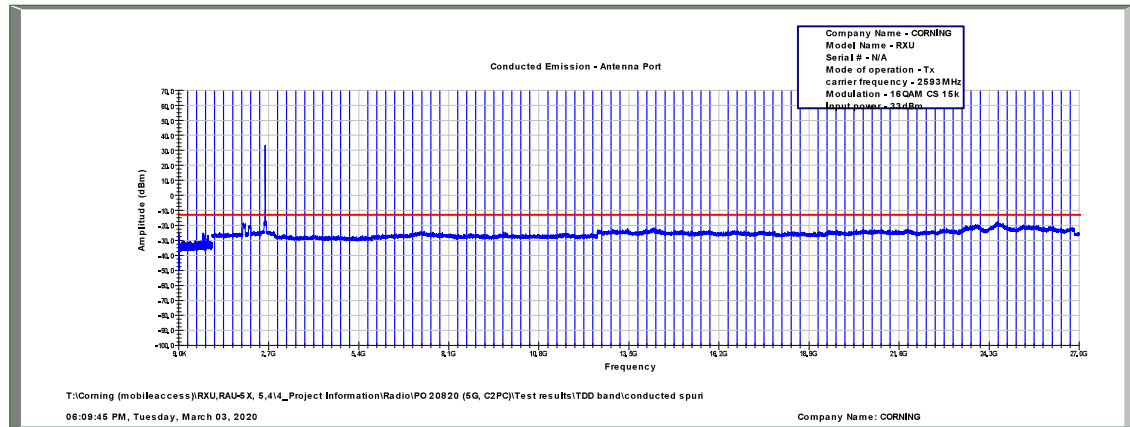


Figure 445: Spurious Emissions at Antenna Terminal 16QAM, 2593.0MHz, B.W. 5MHz, Sub Carrier 30kHz

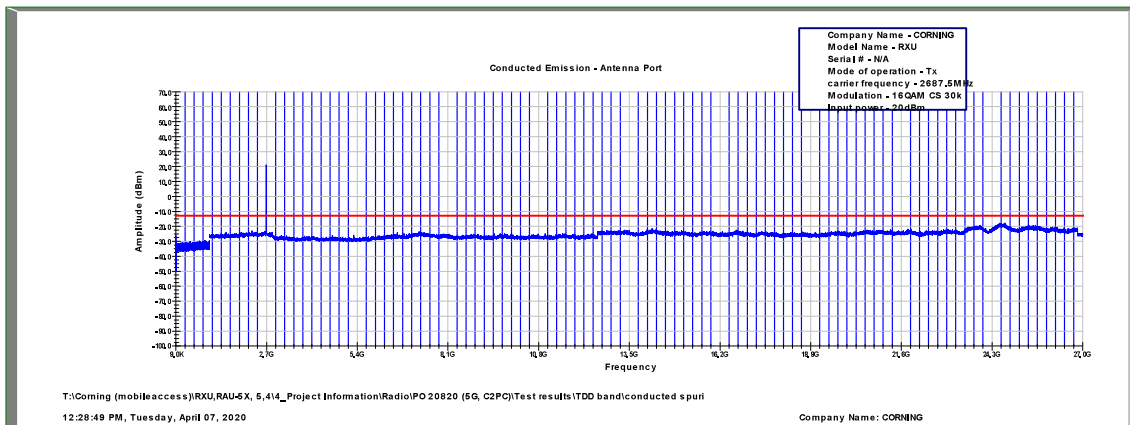
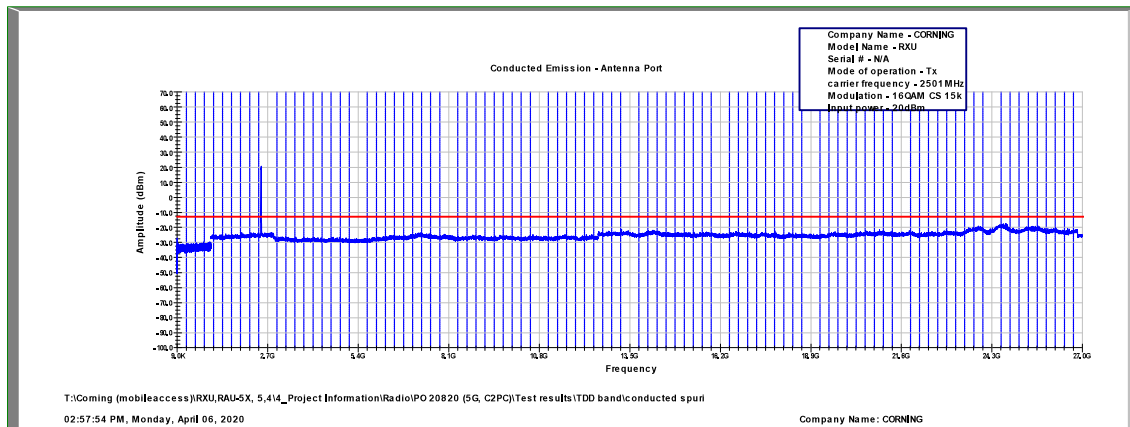
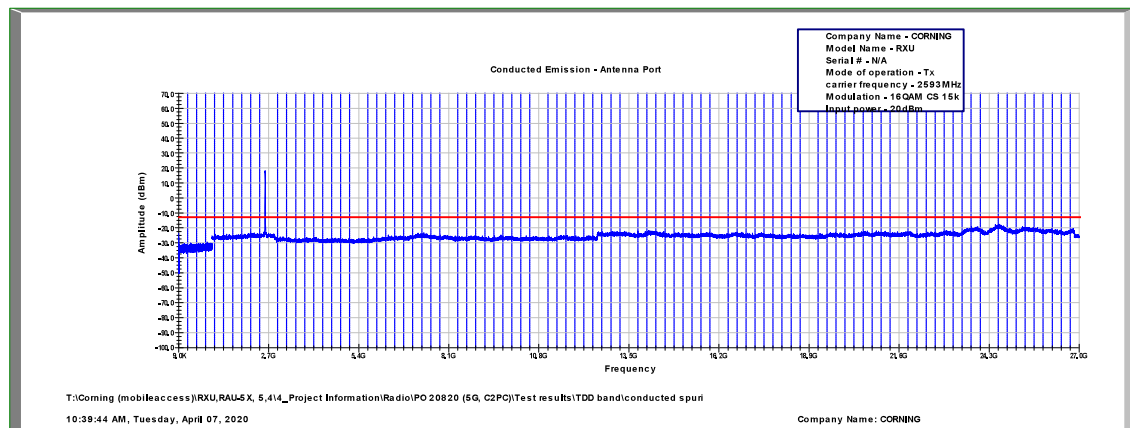


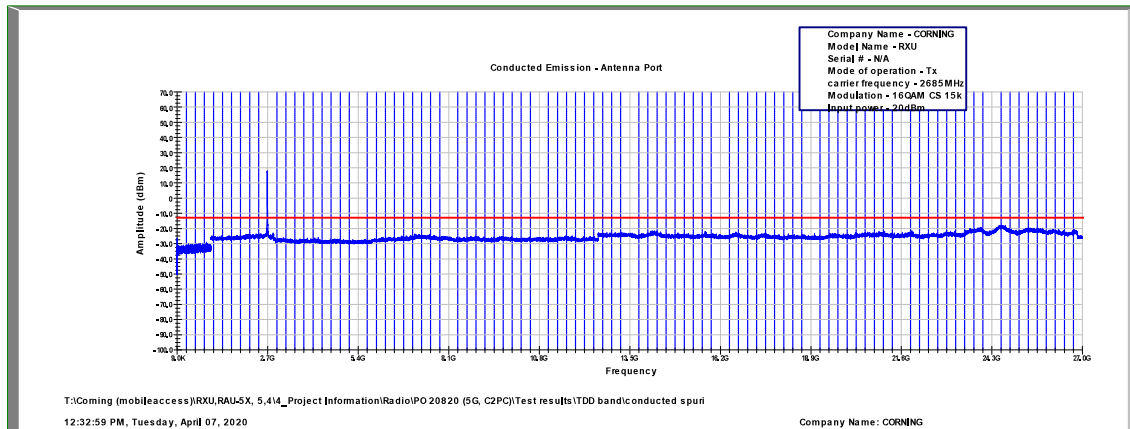
Figure 446: Spurious Emissions at Antenna Terminal 16QAM, 2687.5MHz, B.W. 5MHz, Sub Carrier 30kHz



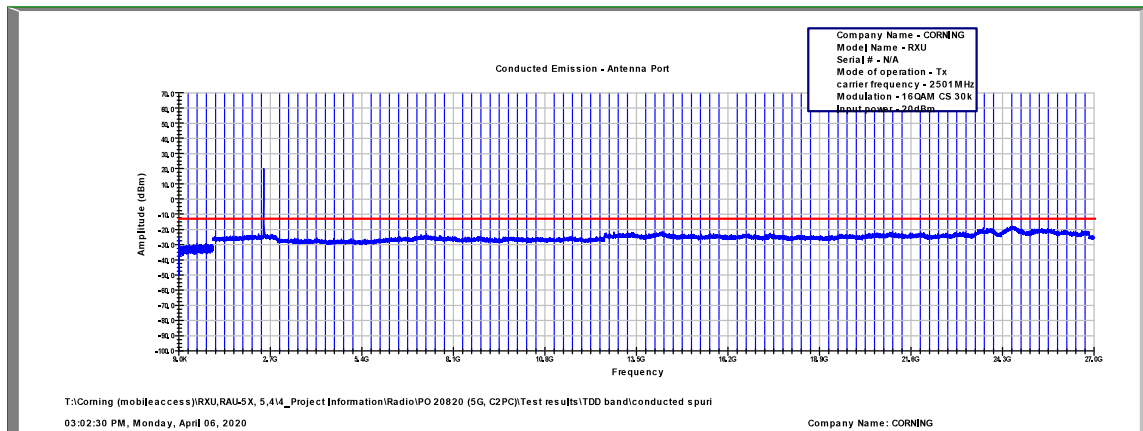
**Figure 447: Spurious Emissions at Antenna Terminal 16QAM, 2501.0MHz,
B.W. 10MHz, Sub Carrier 15kHz**



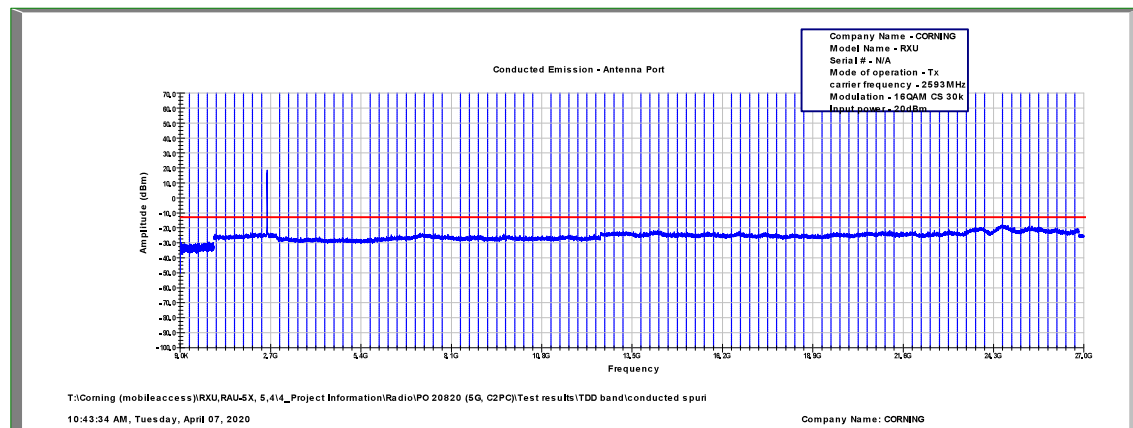
**Figure 448: Spurious Emissions at Antenna Terminal 16QAM, 2593.0MHz,
B.W. 10MHz, Sub Carrier 15kHz**



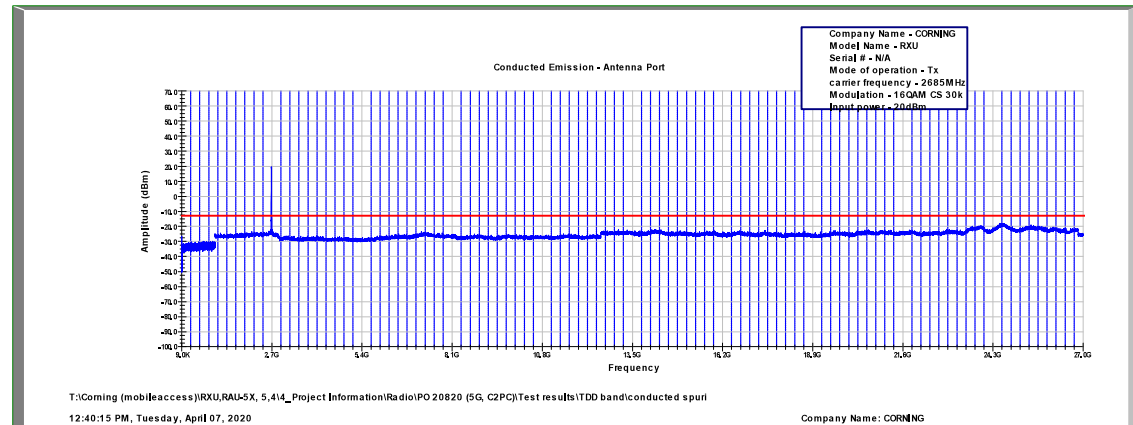
**Figure 449: Spurious Emissions at Antenna Terminal 16QAM, 2685.0MHz,
B.W. 10MHz, Sub Carrier 15kHz**



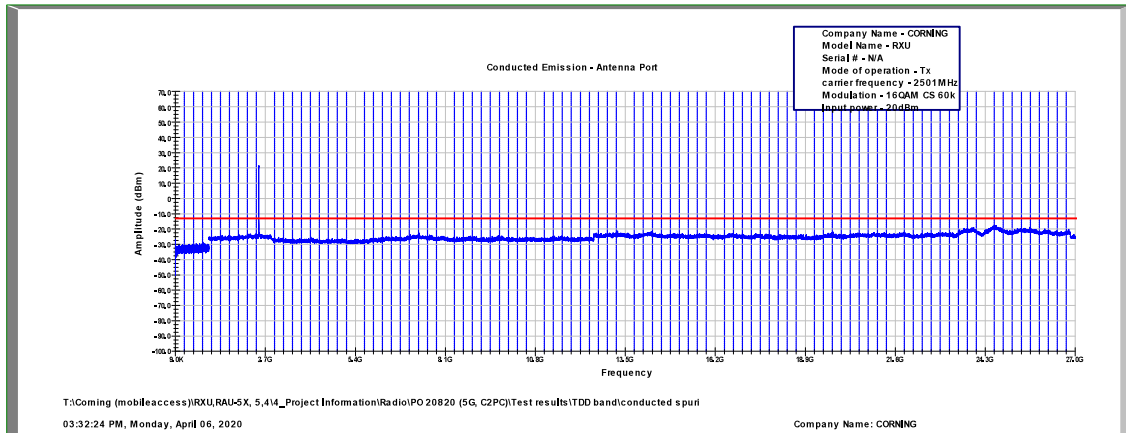
**Figure 450: Spurious Emissions at Antenna Terminal 16QAM, 2501.0MHz,
B.W. 10MHz, Sub Carrier 30kHz**



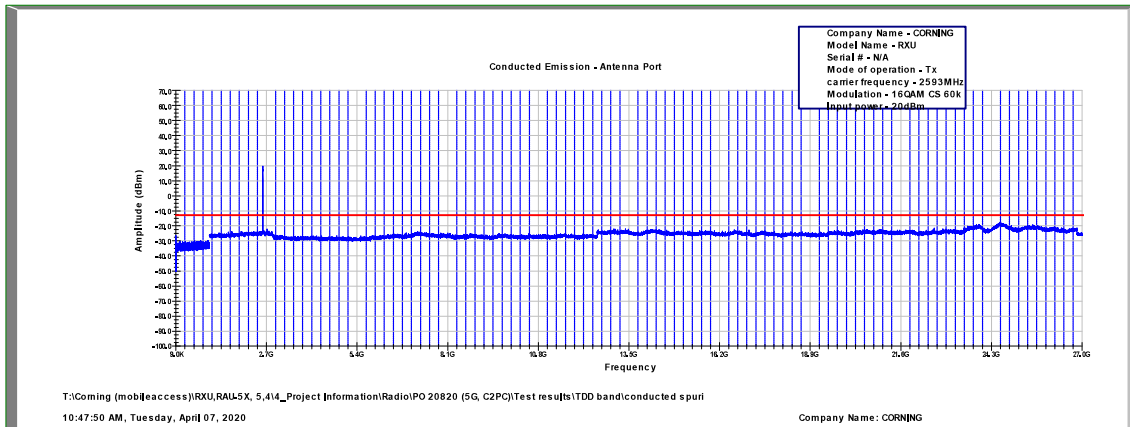
**Figure 451: Spurious Emissions at Antenna Terminal 16QAM, 2593.0MHz,
B.W. 10MHz, Sub Carrier 30kHz**



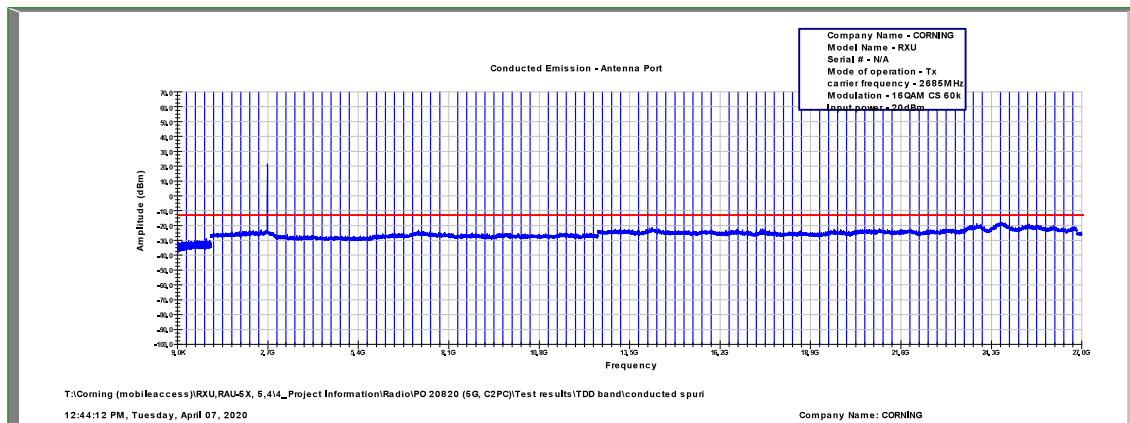
**Figure 452: Spurious Emissions at Antenna Terminal 16QAM, 2685.0MHz,
B.W. 10MHz, Sub Carrier 30kHz**



**Figure 453: Spurious Emissions at Antenna Terminal 16QAM, 2501.0MHz,
B.W. 10MHz, Sub Carrier 60kHz**



**Figure 454: Spurious Emissions at Antenna Terminal 16QAM, 2593.0MHz,
B.W. 10MHz, Sub Carrier 60kHz**



**Figure 455: Spurious Emissions at Antenna Terminal 16QAM, 2685.0MHz,
B.W. 10MHz, Sub Carrier 60kHz**

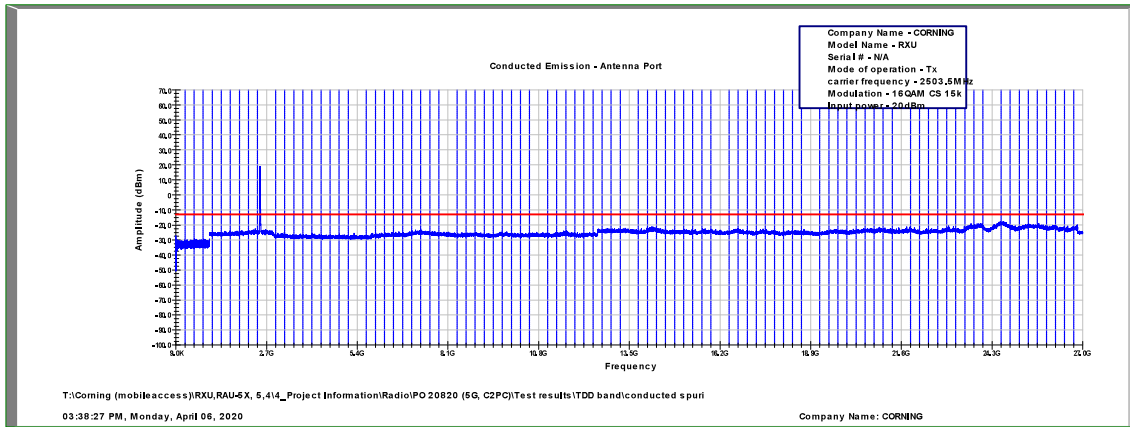


Figure 456: Spurious Emissions at Antenna Terminal 16QAM, 2503.5MHz, B.W. 15MHz, Sub Carrier 15kHz

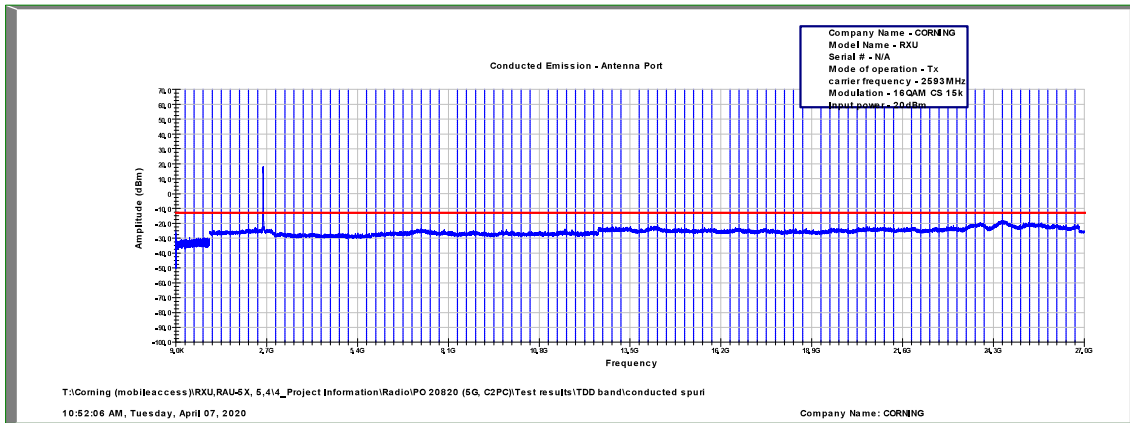


Figure 457: Spurious Emissions at Antenna Terminal 16QAM, 2593.0MHz, B.W. 15MHz, Sub Carrier 15kHz

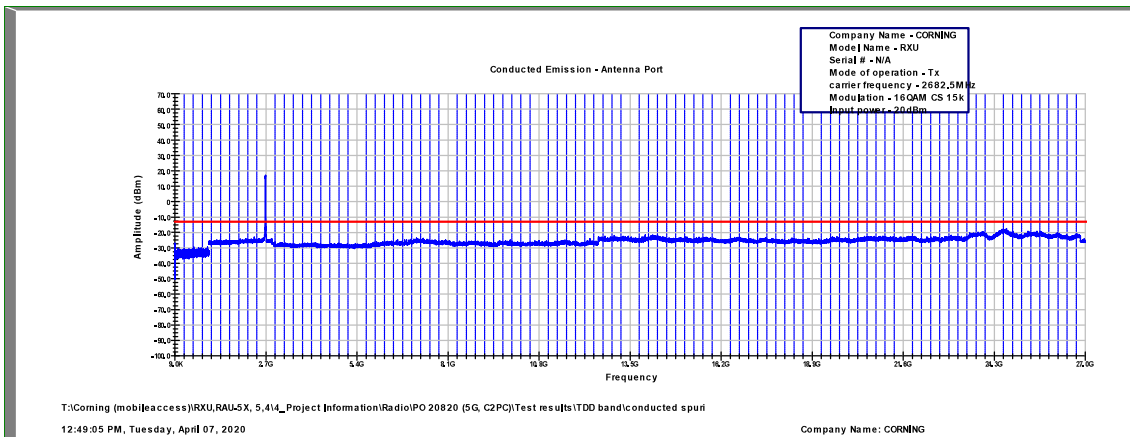
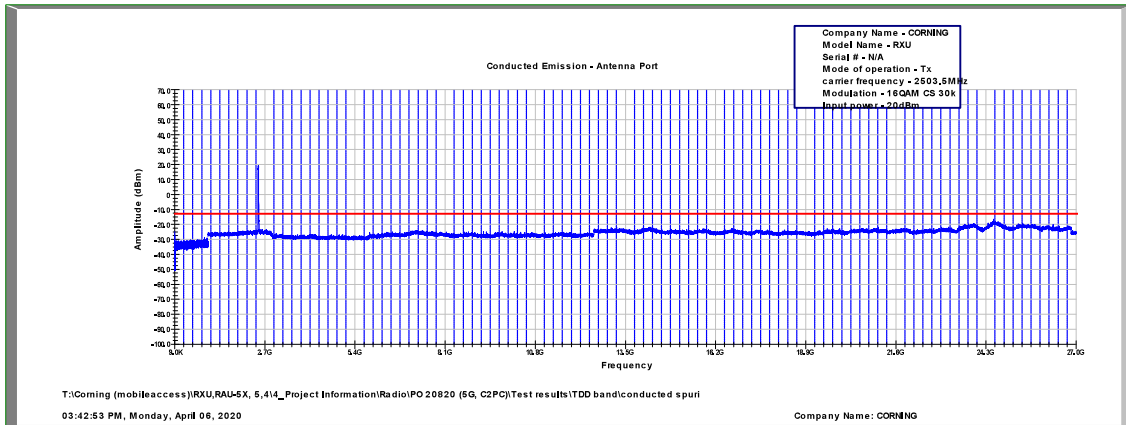
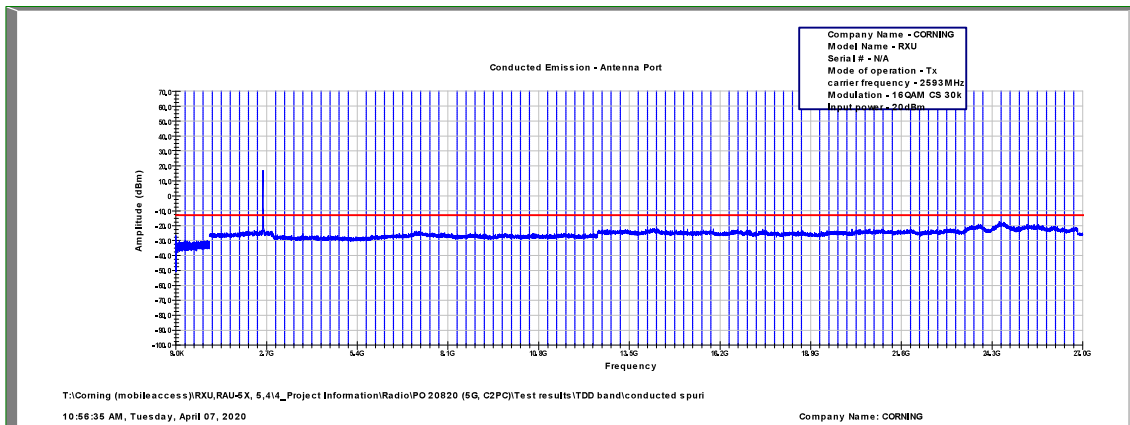


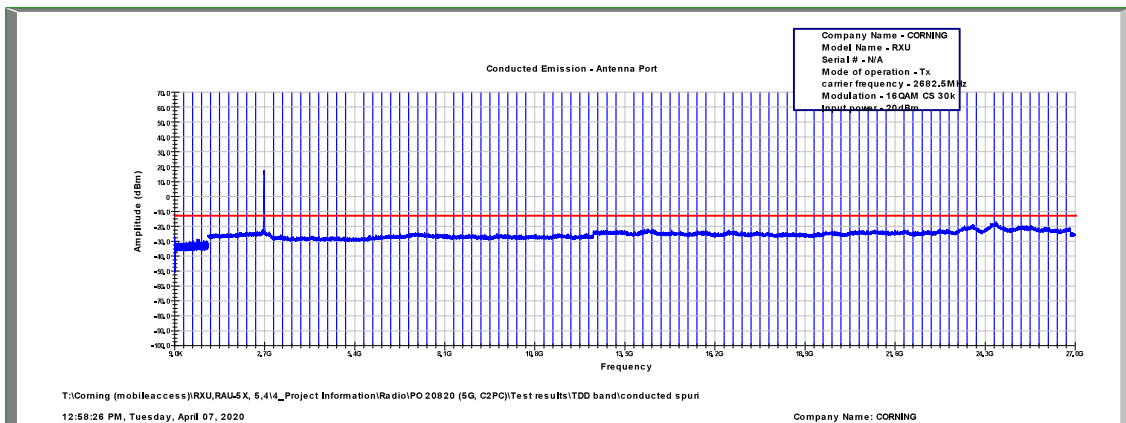
Figure 458: Spurious Emissions at Antenna Terminal 16QAM, 2682.5MHz, B.W. 15MHz, Sub Carrier 15kHz



**Figure 459: Spurious Emissions at Antenna Terminal 16QAM, 2503.5MHz,
B.W. 15MHz, Sub Carrier 30kHz**



**Figure 460: Spurious Emissions at Antenna Terminal 16QAM, 2593.0MHz,
B.W. 15MHz, Sub Carrier 30kHz**



**Figure 461: Spurious Emissions at Antenna Terminal 16QAM, 2682.5MHz,
B.W. 15MHz, Sub Carrier 30kHz**

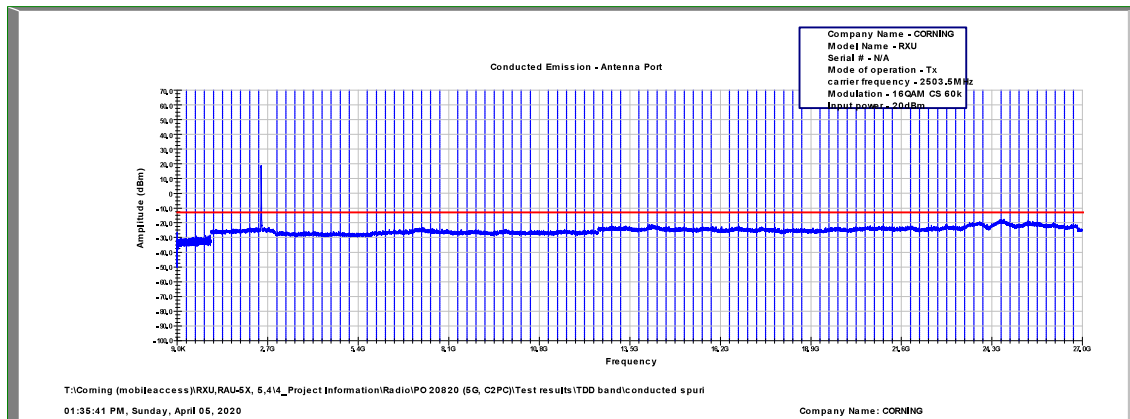


Figure 462: Spurious Emissions at Antenna Terminal 16QAM, 2503.5MHz, B.W. 15MHz, Sub Carrier 60kHz

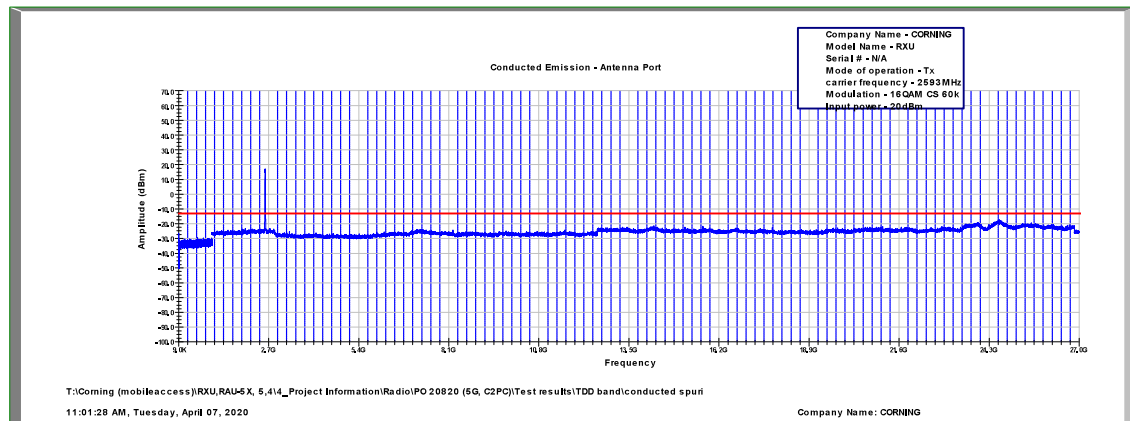


Figure 463: Spurious Emissions at Antenna Terminal 16QAM, 2593.0MHz, B.W. 15MHz, Sub Carrier 60kHz

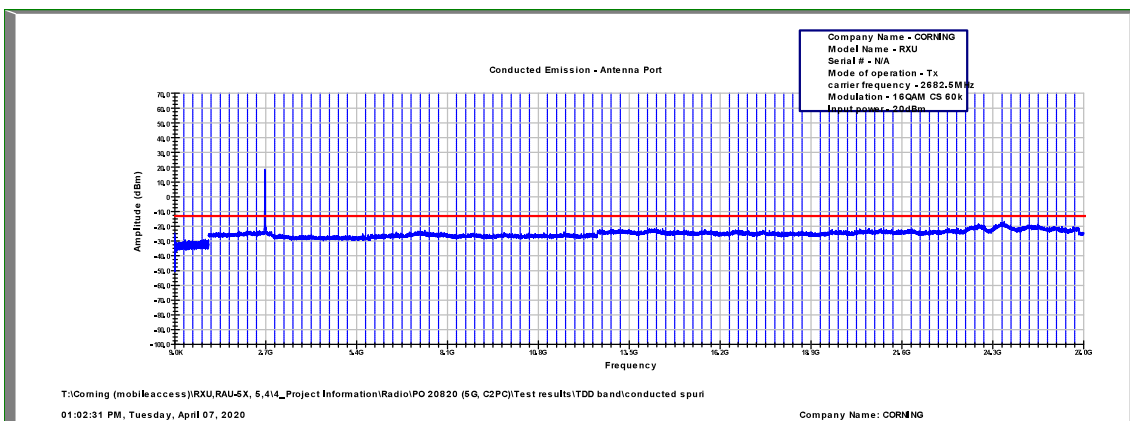
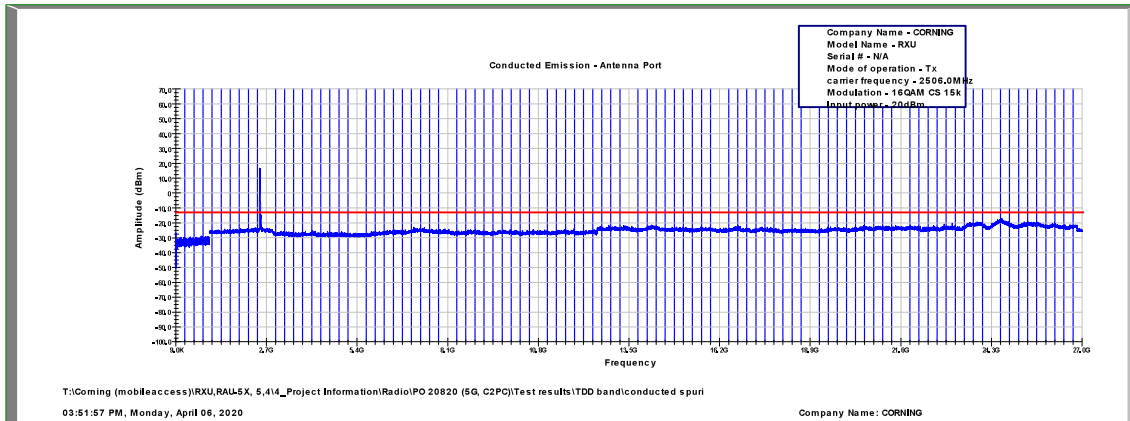
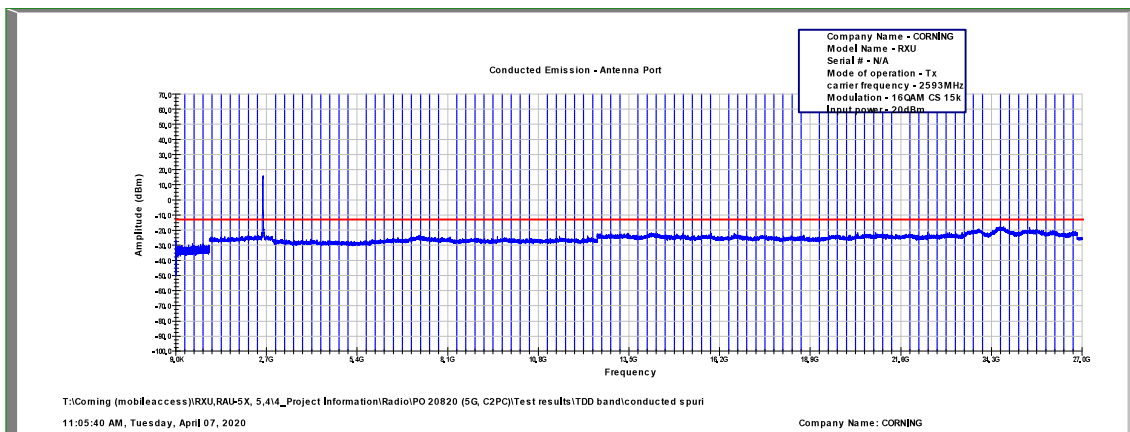


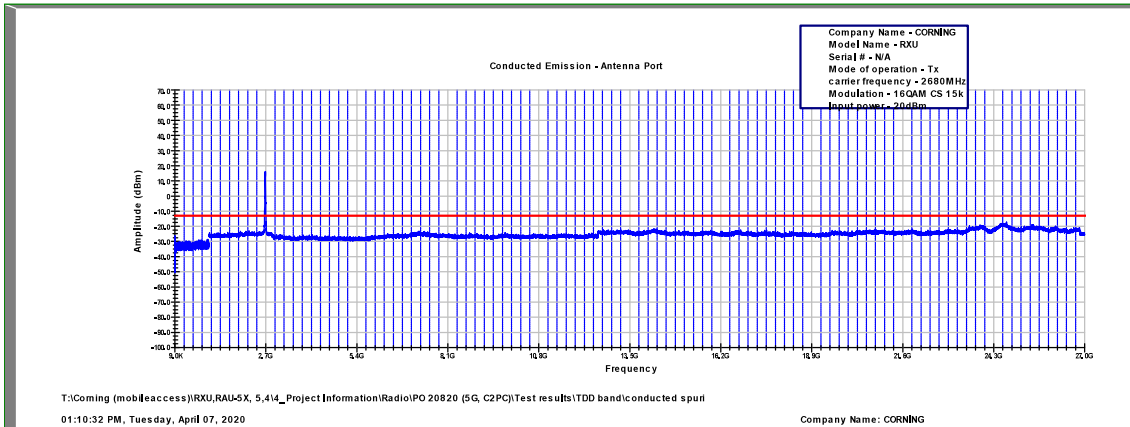
Figure 464: Spurious Emissions at Antenna Terminal 16QAM, 2682.5MHz, B.W. 15MHz, Sub Carrier 60kHz



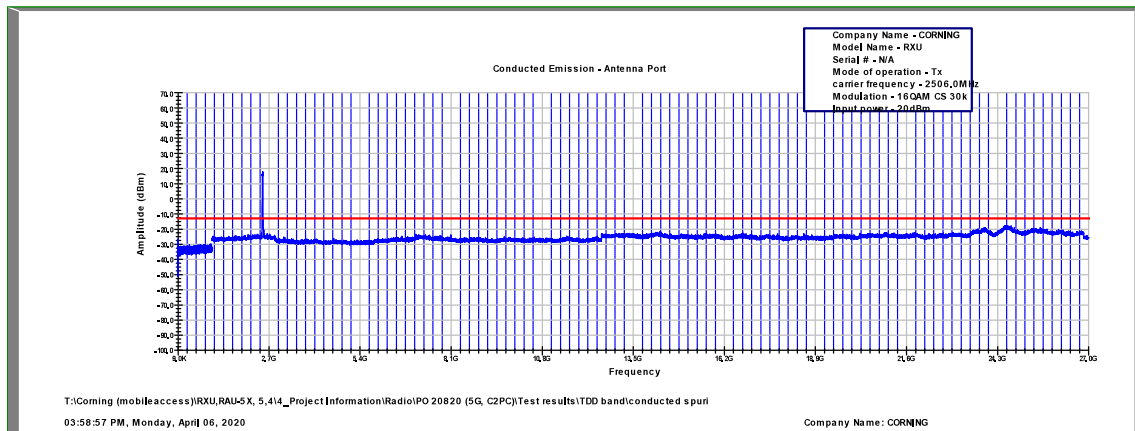
**Figure 465: Spurious Emissions at Antenna Terminal 16QAM, 2506.0MHz,
B.W. 20MHz, Sub Carrier 15kHz**



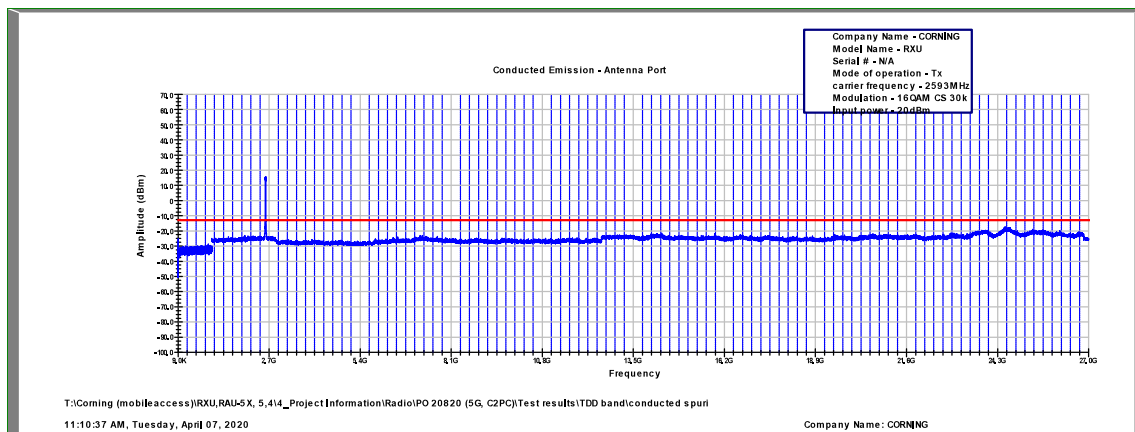
**Figure 466: Spurious Emissions at Antenna Terminal 16QAM, 2593.0MHz,
B.W. 20MHz, Sub Carrier 15kHz**



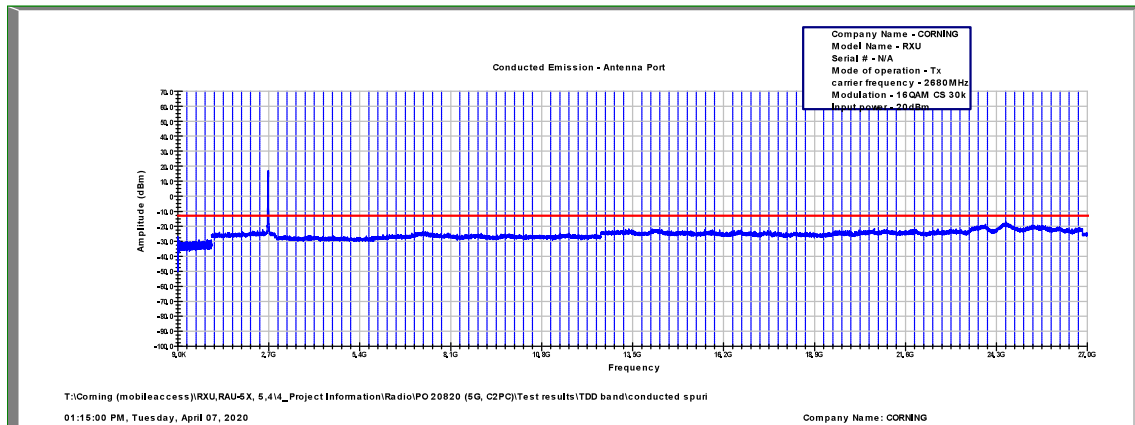
**Figure 467: Spurious Emissions at Antenna Terminal 16QAM, 2680.0MHz,
B.W. 20MHz, Sub Carrier 15kHz**



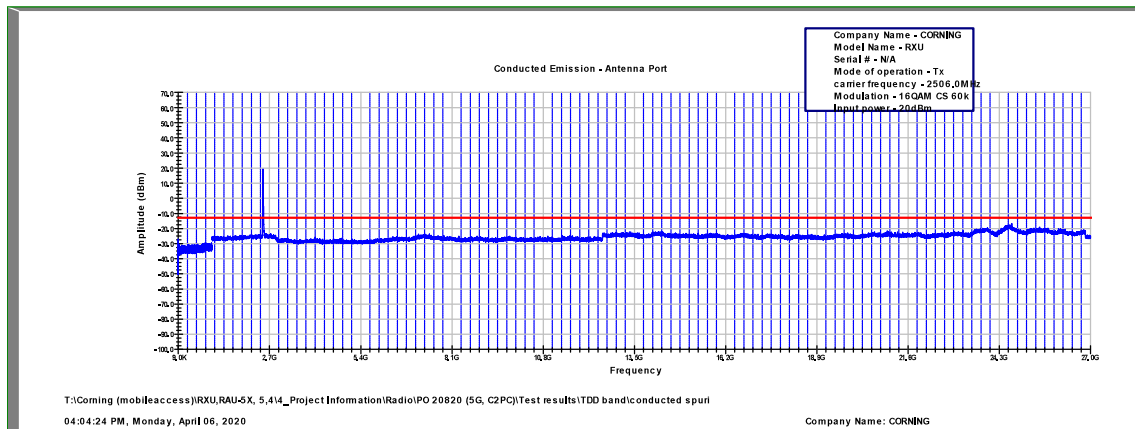
**Figure 468: Spurious Emissions at Antenna Terminal 16QAM, 2506.0MHz,
B.W. 20MHz, Sub Carrier 30kHz**



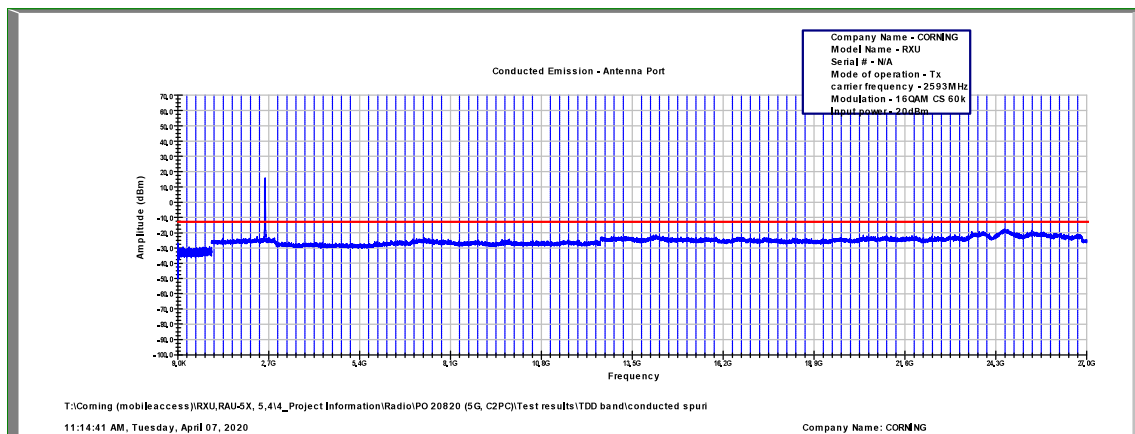
**Figure 469: Spurious Emissions at Antenna Terminal 16QAM, 2593.0MHz,
B.W. 20MHz, Sub Carrier 30kHz**



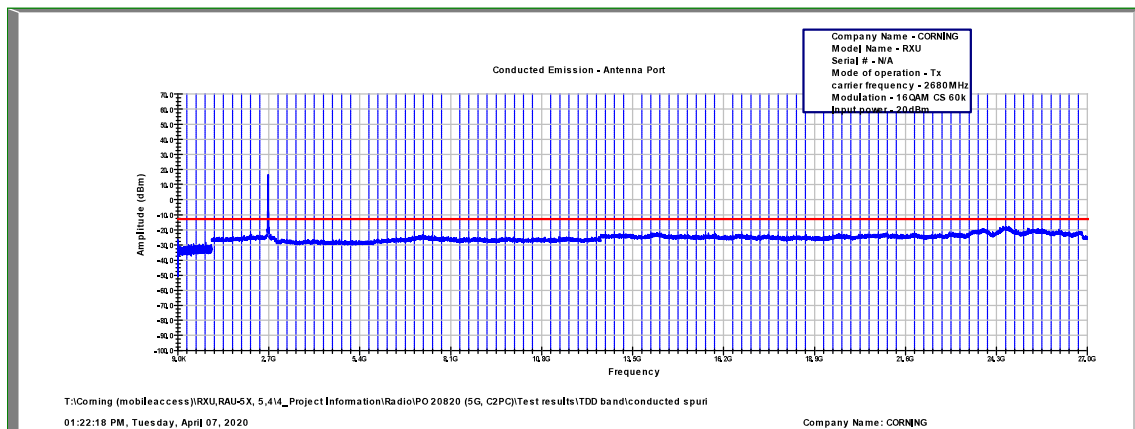
**Figure 470: Spurious Emissions at Antenna Terminal 16QAM, 2680.0MHz,
B.W. 20MHz, Sub Carrier 30kHz**



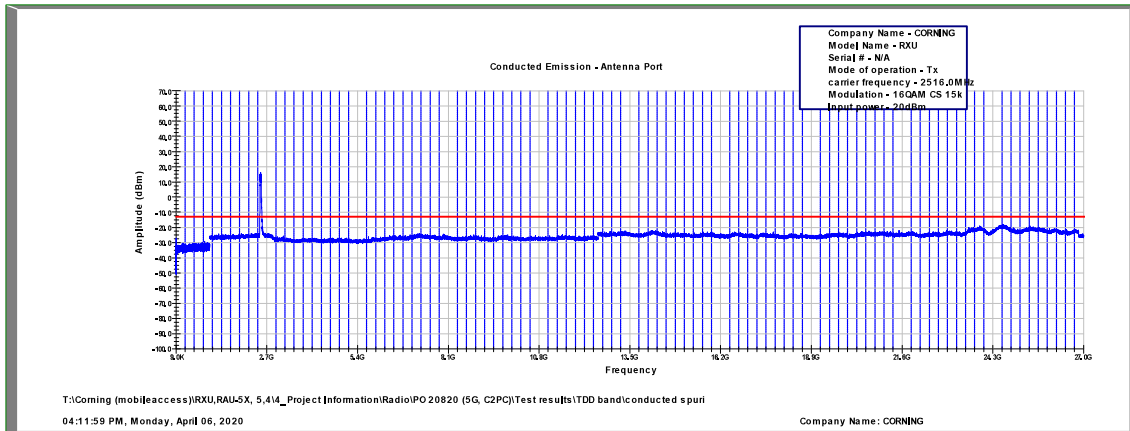
**Figure 471: Spurious Emissions at Antenna Terminal 16QAM, 2506.0MHz,
B.W. 20MHz, Sub Carrier 60kHz**



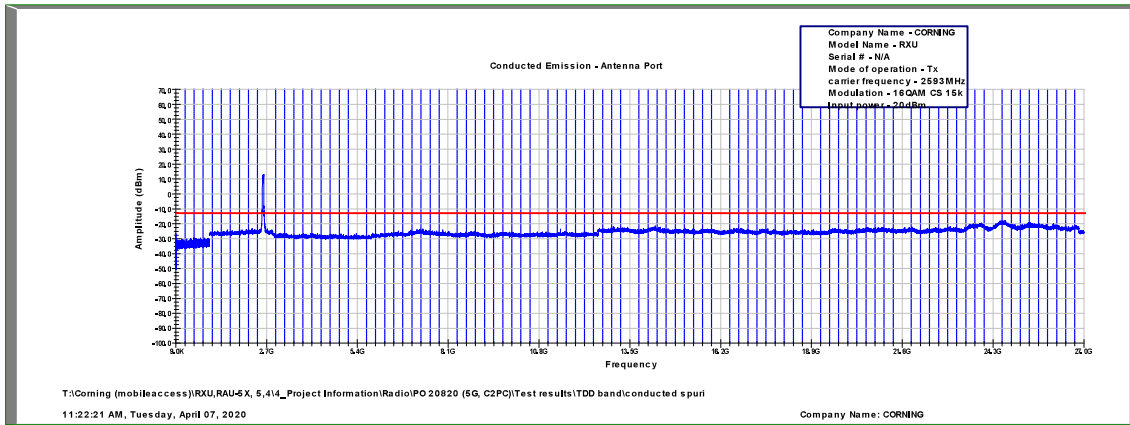
**Figure 472: Spurious Emissions at Antenna Terminal 16QAM, 2593.0MHz,
B.W. 20MHz, Sub Carrier 60kHz**



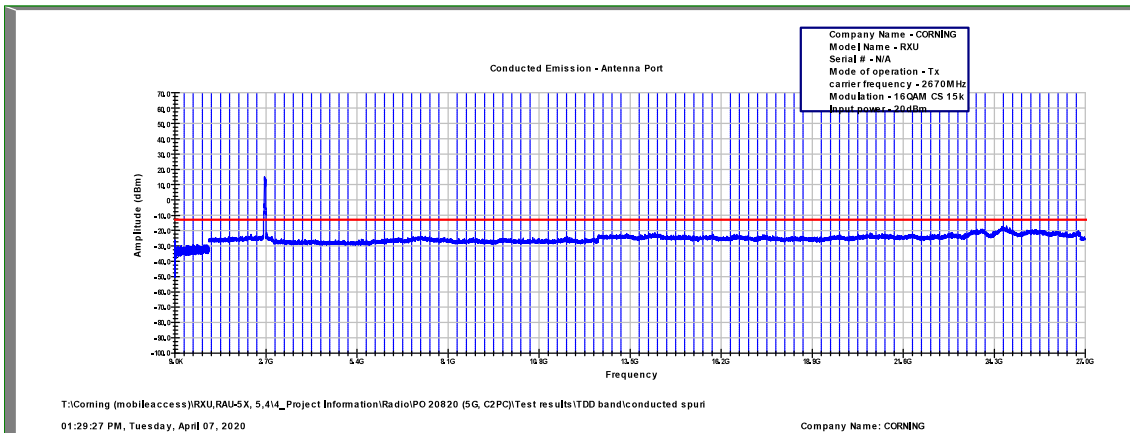
**Figure 473: Spurious Emissions at Antenna Terminal 16QAM, 2680.0MHz,
B.W. 20MHz, Sub Carrier 60kHz**



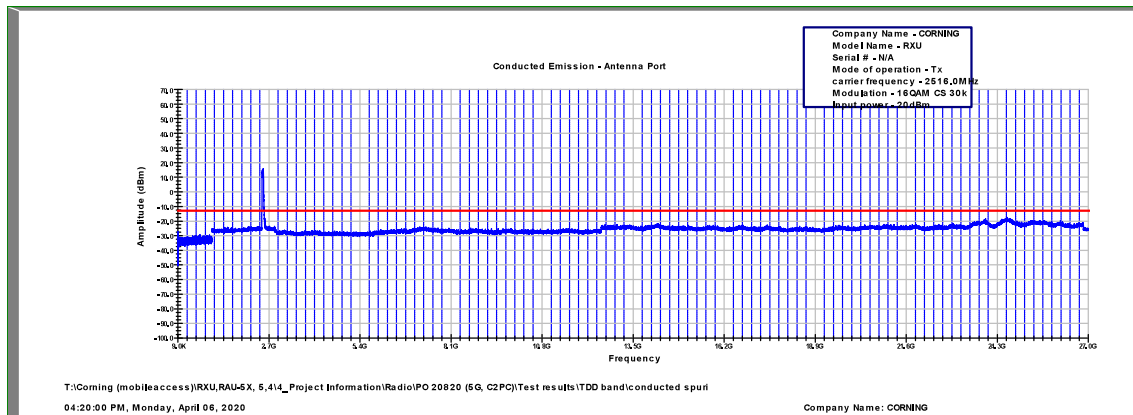
**Figure 474: Spurious Emissions at Antenna Terminal 16QAM, MHz,
B.W. 40MHz, Sub Carrier 15kHz**



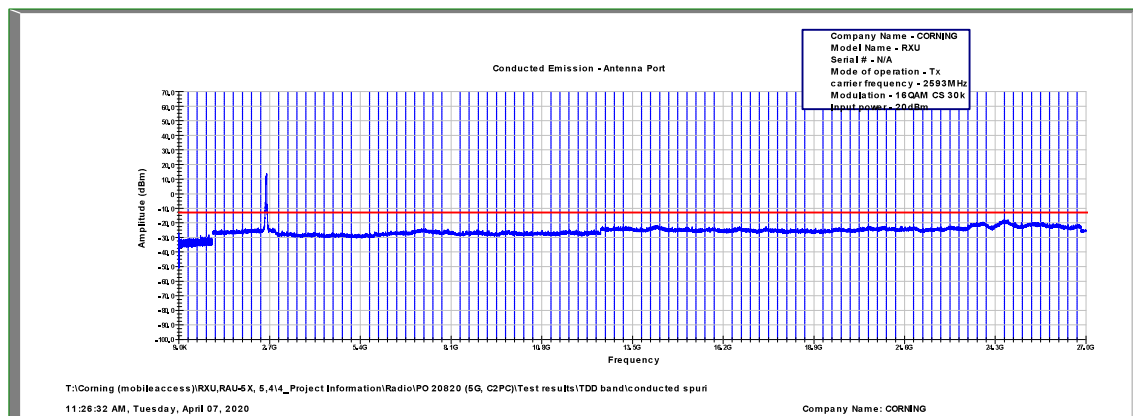
**Figure 475: Spurious Emissions at Antenna Terminal 16QAM, 2593.0MHz,
B.W. 40MHz, Sub Carrier 15kHz**



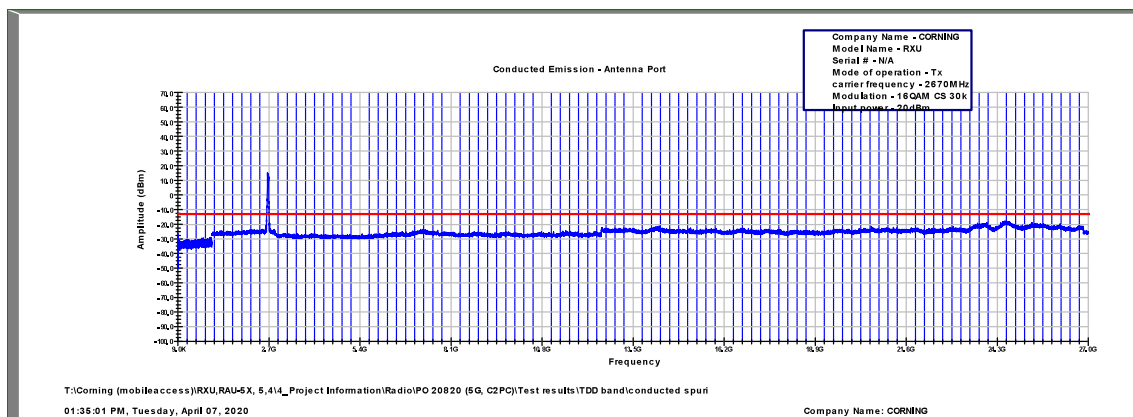
**Figure 476: Spurious Emissions at Antenna Terminal 16QAM, 2670.0MHz,
B.W. 40MHz, Sub Carrier 15kHz**



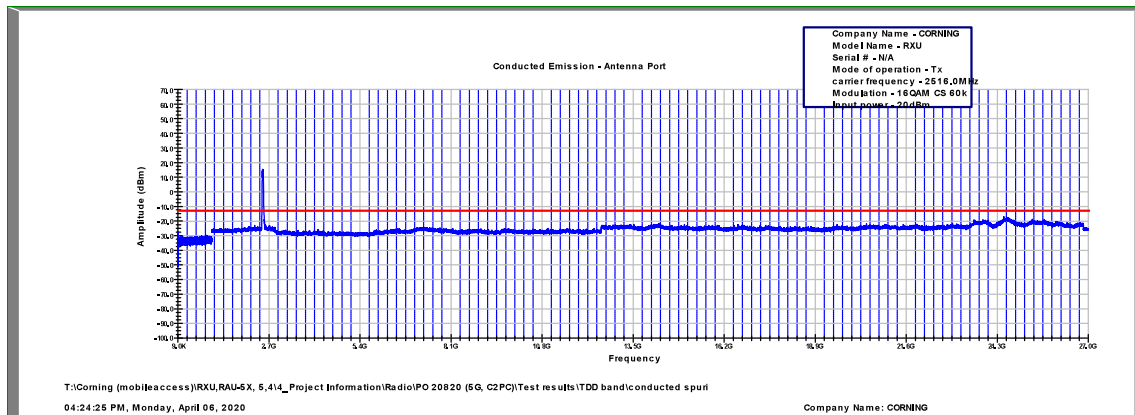
**Figure 477: Spurious Emissions at Antenna Terminal 16QAM, 2516.0MHz,
B.W. 40MHz, Sub Carrier 30kHz**



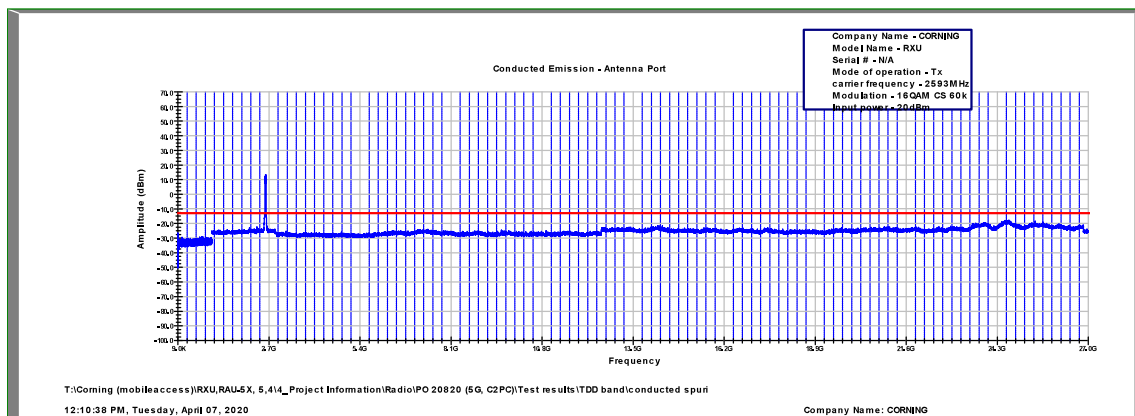
**Figure 478: Spurious Emissions at Antenna Terminal 16QAM, 2593.0MHz,
B.W. 40MHz, Sub Carrier 30kHz**



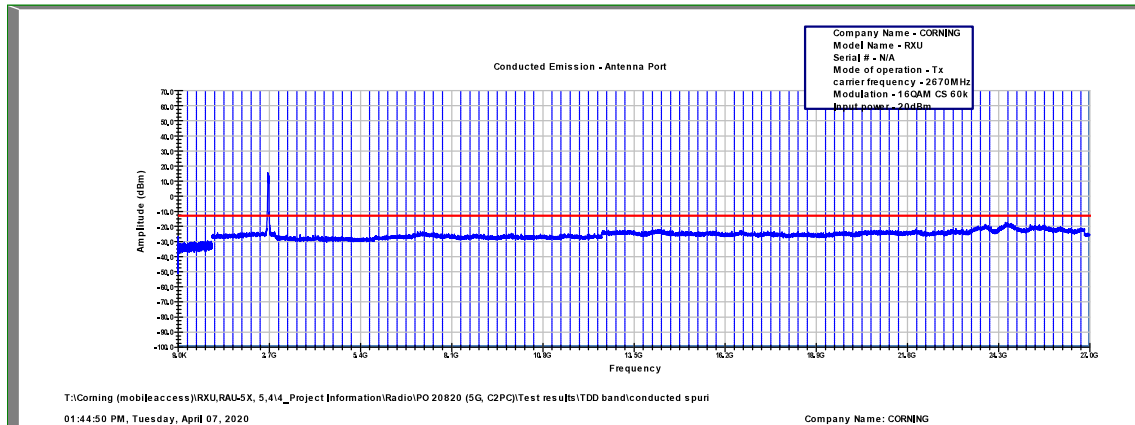
**Figure 479: Spurious Emissions at Antenna Terminal 16QAM, 2670.0MHz,
B.W. 40MHz, Sub Carrier 30kHz**



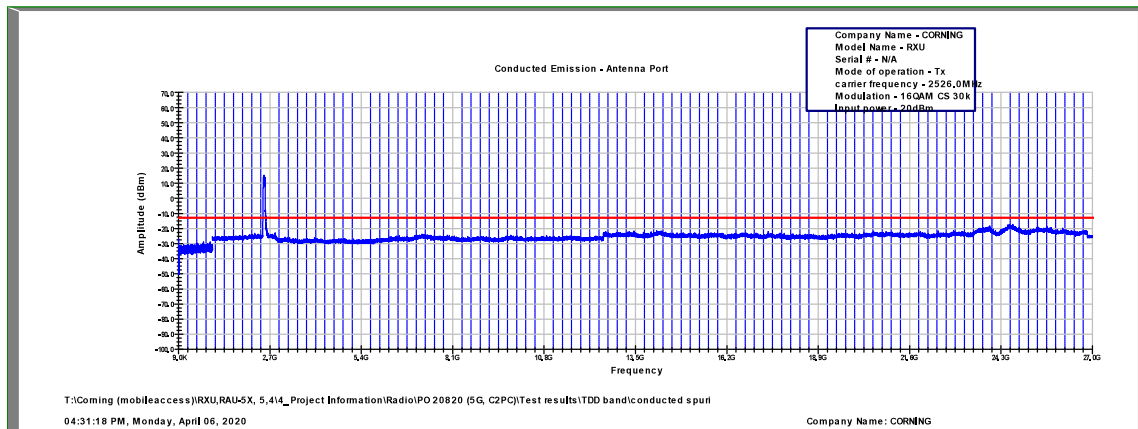
**Figure 480: Spurious Emissions at Antenna Terminal 16QAM, 2516.0MHz,
B.W. 40MHz, Sub Carrier 60kHz**



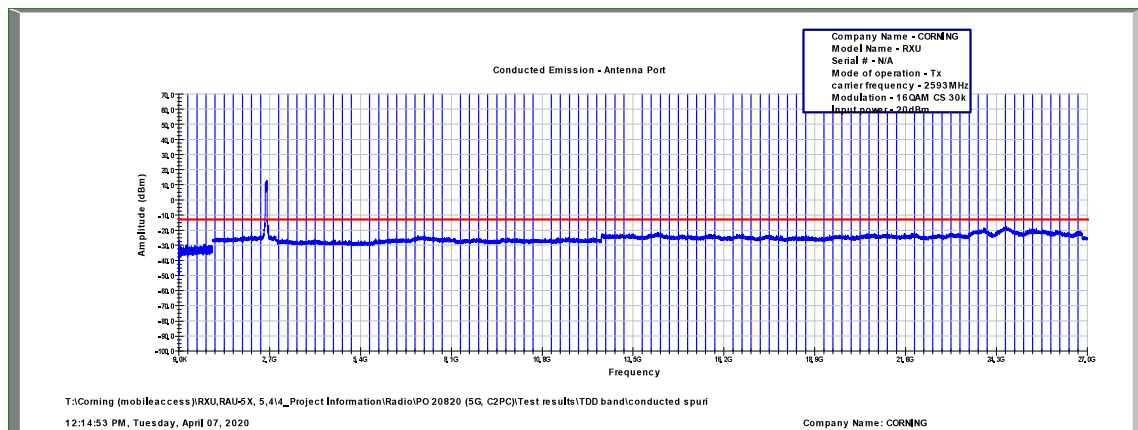
**Figure 481: Spurious Emissions at Antenna Terminal 16QAM, 2593.0MHz,
B.W. 40MHz, Sub Carrier 60kHz**



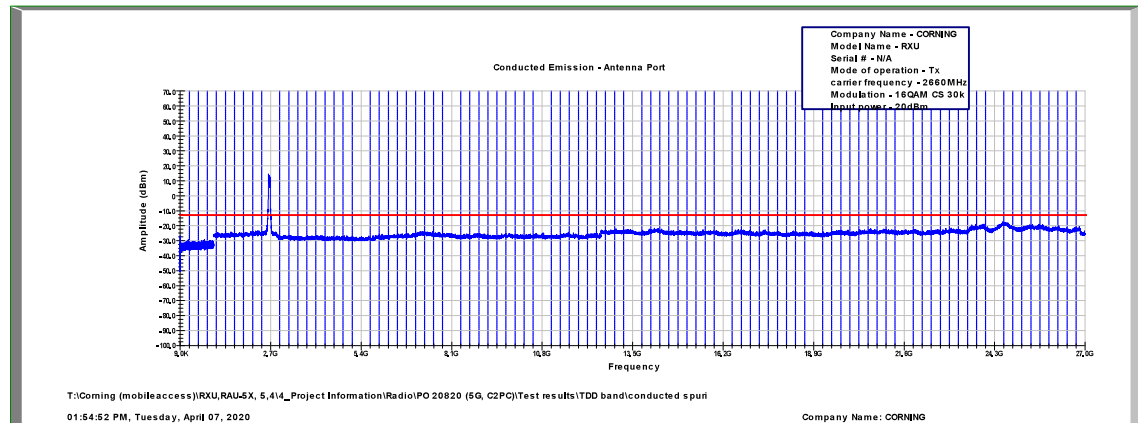
**Figure 482: Spurious Emissions at Antenna Terminal 16QAM, 2670.0MHz,
B.W. 40MHz, Sub Carrier 60kHz**



**Figure 483: Spurious Emissions at Antenna Terminal 16QAM, 2526.0MHz,
B.W. 60MHz, Sub Carrier 30kHz**



**Figure 484: Spurious Emissions at Antenna Terminal 16QAM, 2593.0MHz,
B.W. 60MHz, Sub Carrier 30kHz**



**Figure 485: Spurious Emissions at Antenna Terminal 16QAM, 2660.0MHz,
B.W. 60MHz, Sub Carrier 30kHz**

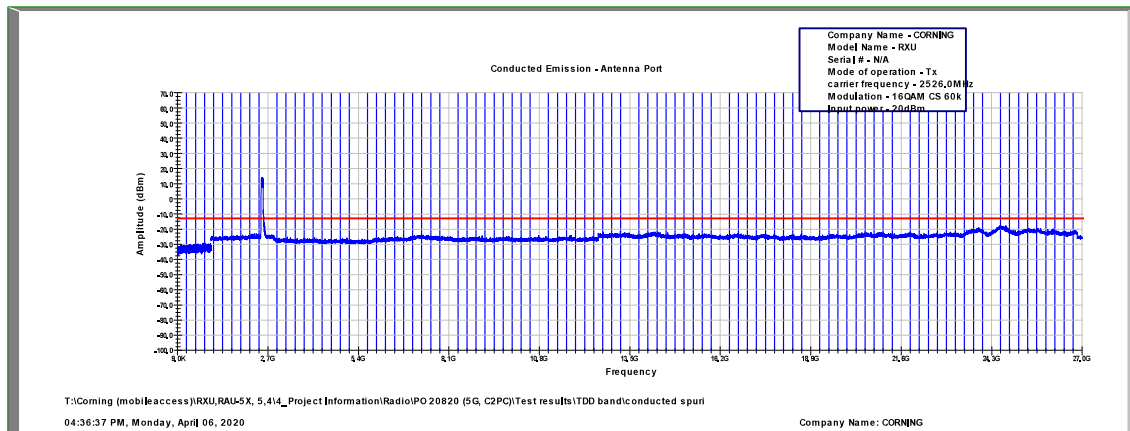


Figure 486: Spurious Emissions at Antenna Terminal 16QAM, 2526.0MHz, B.W. 60MHz, Sub Carrier 60kHz

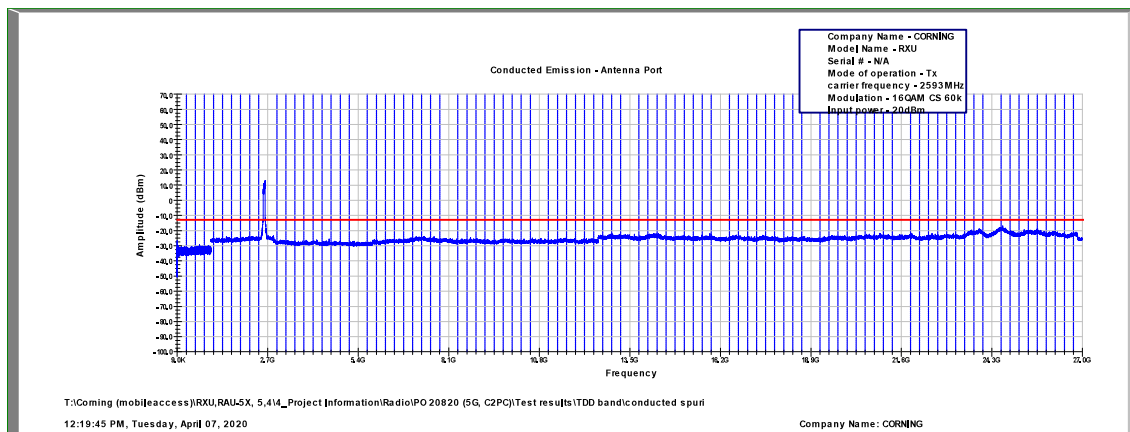


Figure 487: Spurious Emissions at Antenna Terminal 16QAM, 2593.0MHz, B.W. 60MHz, Sub Carrier 30kHz

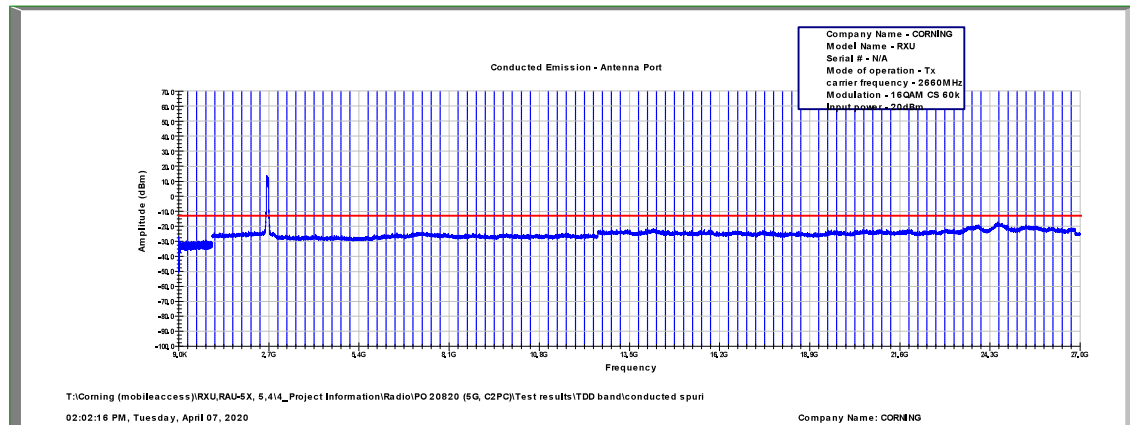


Figure 488: Spurious Emissions at Antenna Terminal 16QAM, 2660.0MHz, B.W. 60MHz, Sub Carrier 60kHz

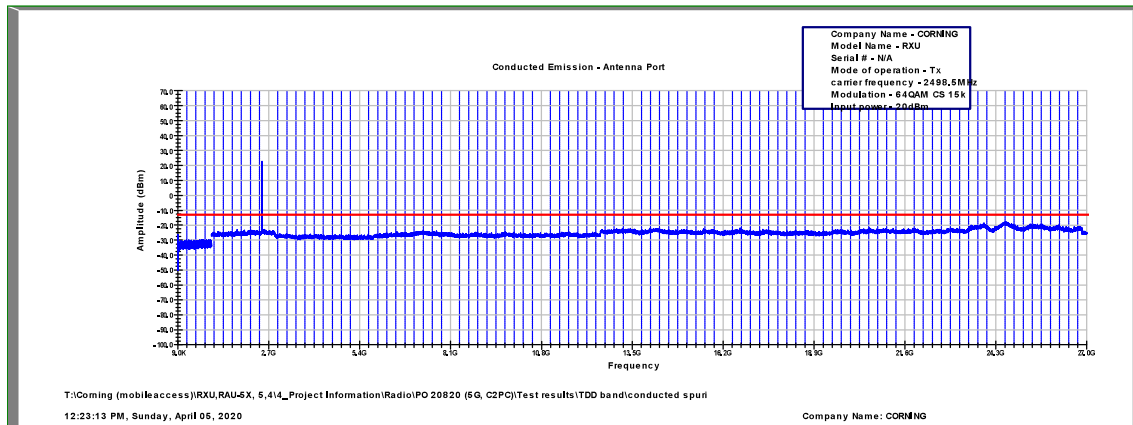


Figure 489: Spurious Emissions at Antenna Terminal 64QAM, 2498.5MHz, B.W. 5MHz, Sub Carrier 15kHz

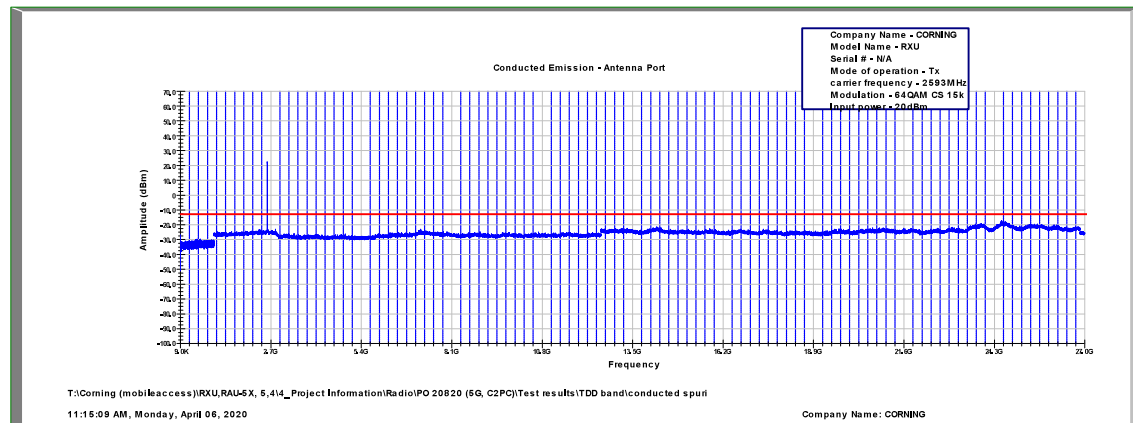


Figure 490: Spurious Emissions at Antenna Terminal 64QAM, 2593.0MHz, B.W. 5MHz, Sub Carrier 15kHz

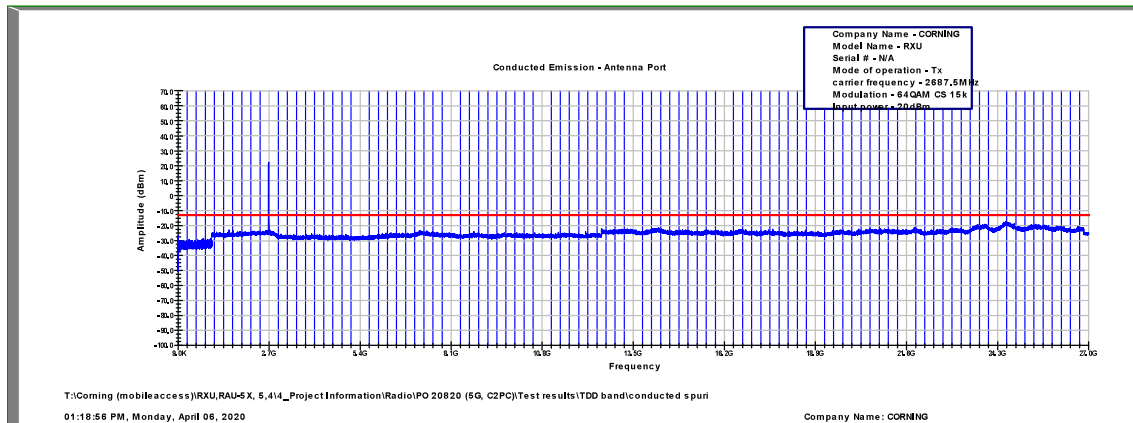
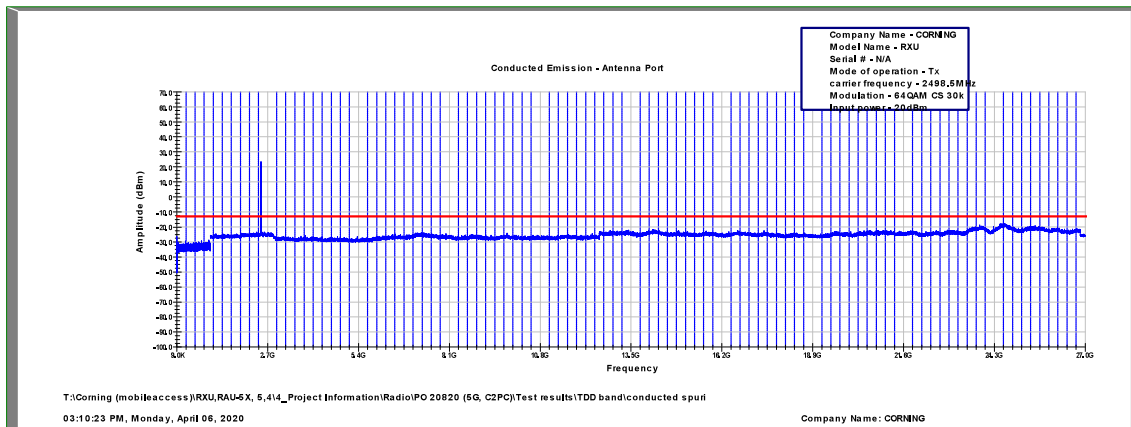
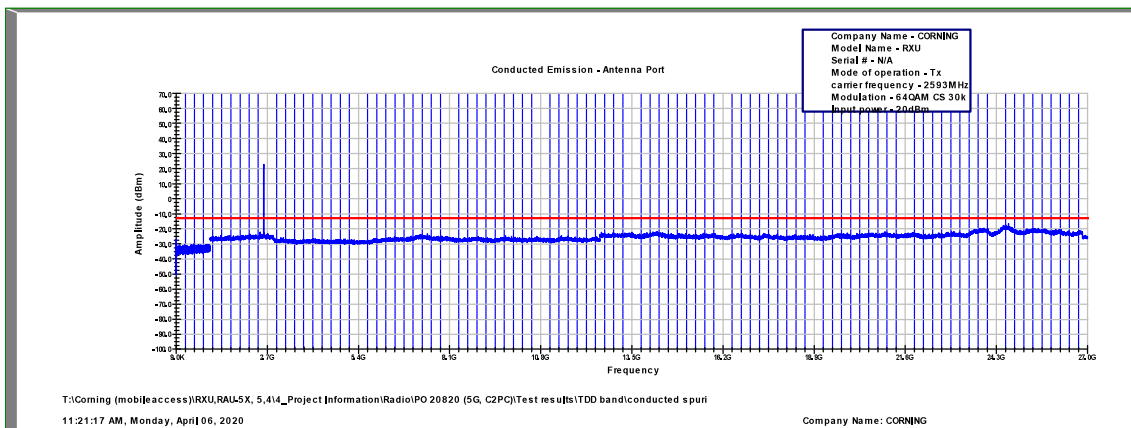


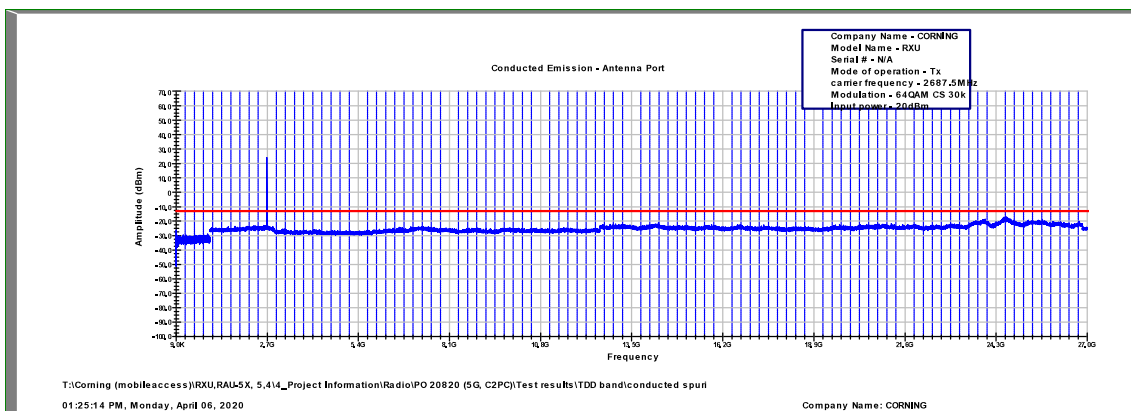
Figure 491: Spurious Emissions at Antenna Terminal 64QAM, 2887.5MHz, B.W. 5MHz, Sub Carrier 15kHz



**Figure 492: Spurious Emissions at Antenna Terminal 64QAM, 2498.5MHz,
B.W. 5MHz, Sub Carrier 30kHz**



**Figure 493: Spurious Emissions at Antenna Terminal 64QAM, 2593.0MHz,
B.W. 5MHz, Sub Carrier 30kHz**



**Figure 494: Spurious Emissions at Antenna Terminal 64QAM, 2687.5MHz,
B.W. 5MHz, Sub Carrier 30kHz**