TCB QUESTIONS

-----Original Message-----
From: Certification Manager [SMTP:certification@curtis-straus.com]
Sent: Wednesday, March 07, 2001 1:36 PM
To: Tom Tidwell
Subject: KUWINCELLSMR

Hi Tom,

I thought this one was going to be one I was able to grant straight off, but I got tripped up at the last moment by the following item. Please help me clear this up so I can issue the grant. Thanks!

1. Section 90.691(a) (1) requires 50+10 log(P) attenuation for frequencies removed up to 37.5KHz from the assigned channel band. This is kind of unusual because it is only 43 + 10 log(P) further out. That seems to translate into a -20dBm limit for some of the spurious emissions. This product has some that are -17dBm from the IM test. It would seem that it might be possible to pick channels which might have this high spur show up in the 37.5kHz next to the assigned channel. Please comment on how this device complies with 90.691 (a) (1) or tell me why you think it is not applicable.

[Tom Tidwell] The attached file contains three plots. The first plot demonstrates the intermodulation with voice modulated carriers. The total composite power output is actually +9.87 dBm + 10Log(3) = +14.6 dBm. This is the power output that whould be listed on the grant for voice and analogue data modulation.

The second plot shows the intermodulation products using 3 iDEN signals. The highest out-of-band intermodulation product is -29 dBm. There are also some products created in the signal generator as a result of the iDEN signals being created with an arbitrary waveform modulation generator (R&S AMIQ). Plot 3 shows the input (output of the signal generator). We are working with our local R&S technical support guy to filter these out. They are apparently a product of the baseband clock in the modulation generator.
<<IntermodPlots.pdf>

Cheers,

Tom

Best regards

Barry C. Quinlan
Certification & Telecom Manager
Curtis-Straus LLC