

FCC Response

Date: 31st January 2002

FCC ID: KRE200A-AN

731 Confirmation number EA159841

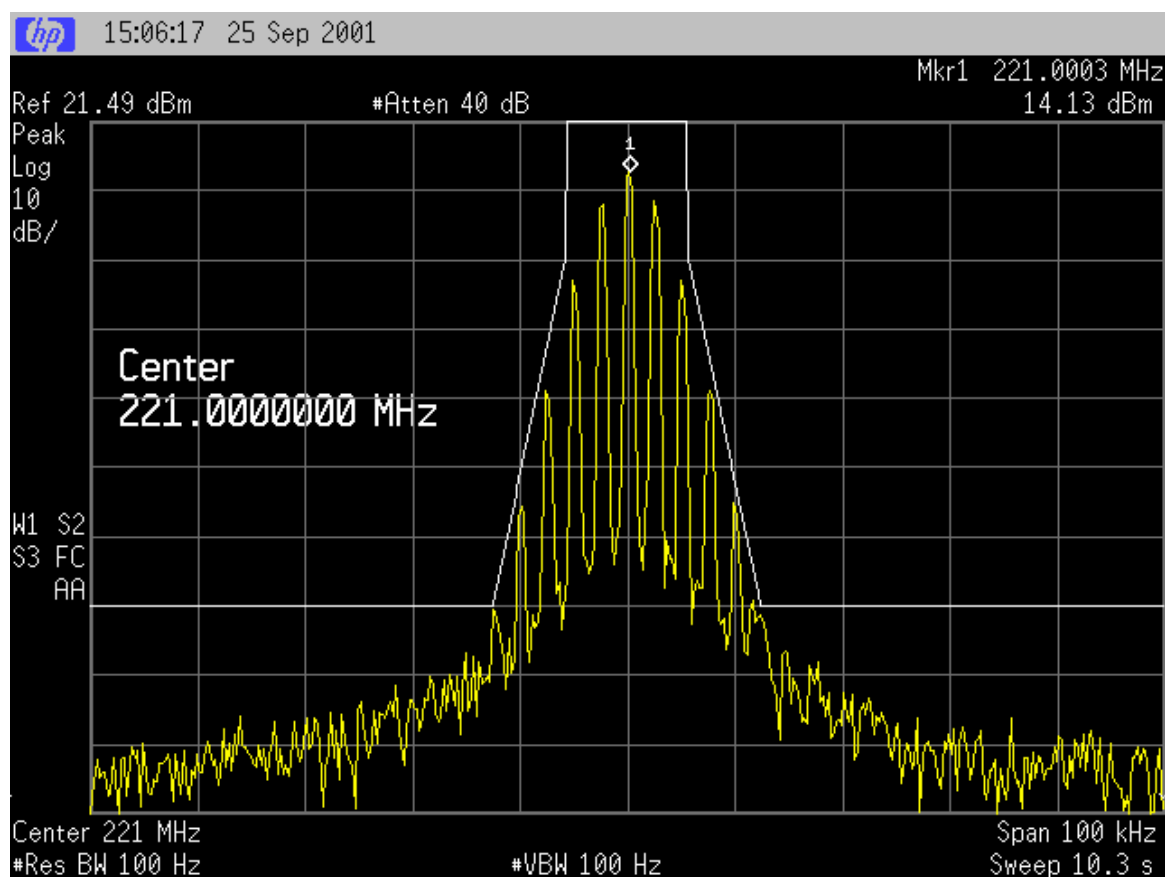
Correspondence reference number: 21683

Reference has been made to Section 90.733(e).

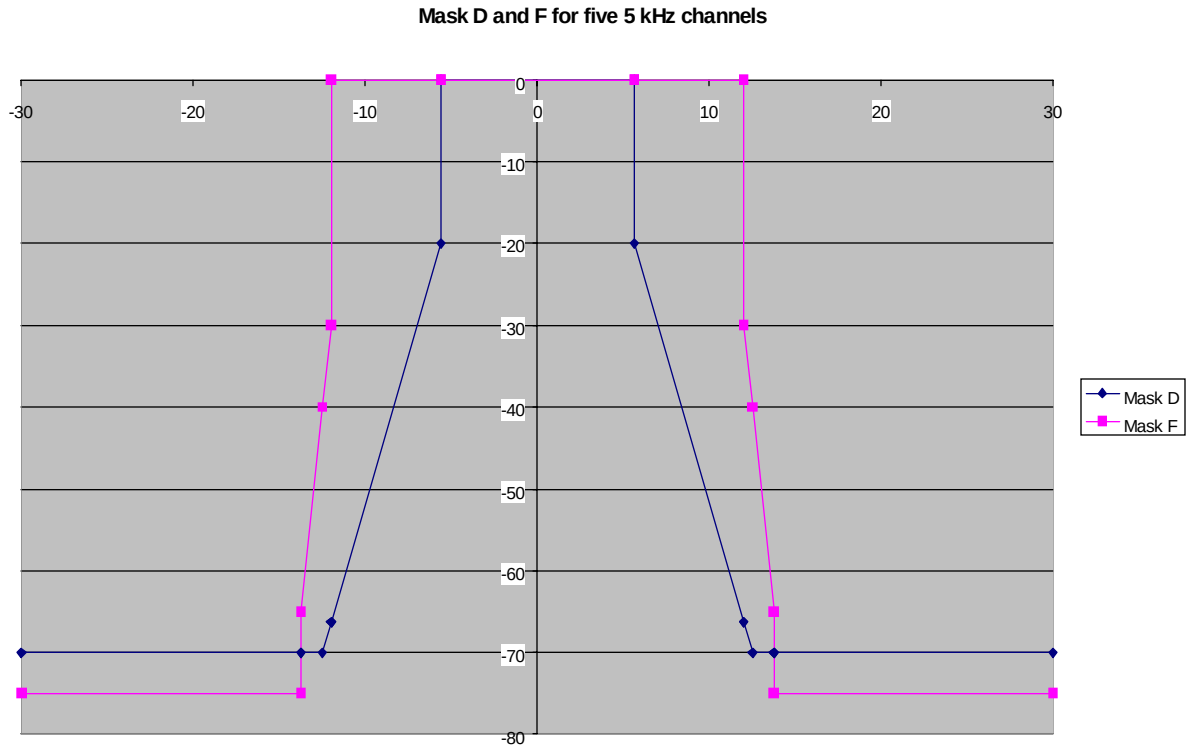
My client advises that this transmitter is to be used with a 12.5 kHz channel plan in the 220 – 222 MHz band where 5 kHz channels have been grouped together to form channels wider than 5 kHz.

Initially measurements were carried out with Mask D as per section 90.210(d).

The worst case emission mask was obtained when the transmitter was modulated with a 2500 Hz tone with CTCSS applied.



Emission mask F has been applied at the outermost edges of the contiguous channels.



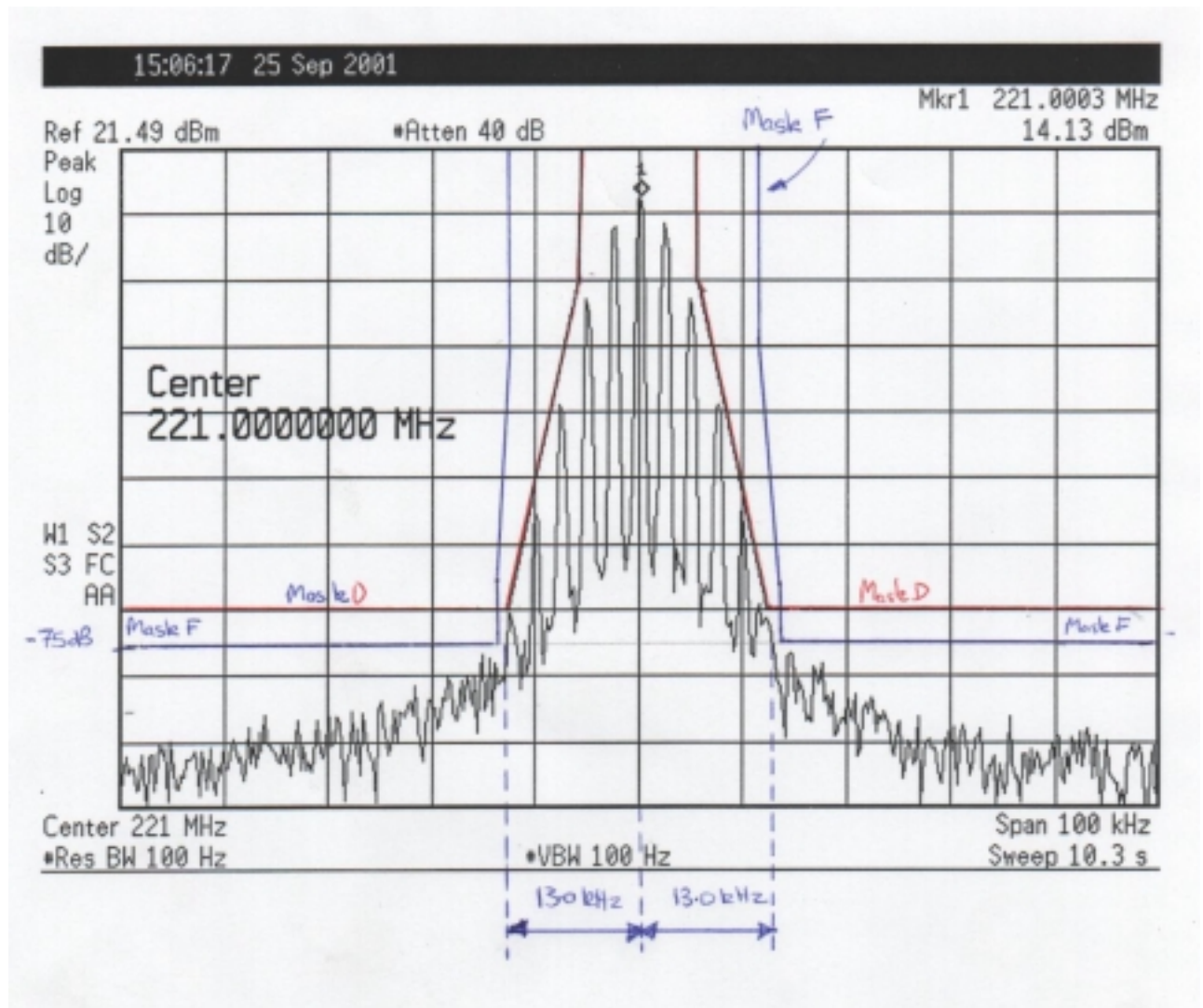
From this graph it can be seen that this transmitter would meet the requirements of emission mask F as per section 90.210(f) when five 5 kHz channels are utilised.

The critical part of emission mask F is at 3.75 kHz from the centre of the 5 kHz channel when the attenuation goes from -65 to -75 dB.

Manual manipulation of the original emission mask shows that the -75 dB emission limit intercepts the emission mask at -13.0 kHz and +13.0 kHz.

When using five 5 kHz channels the -75 dB knee occurs at +/- 13.75 kHz.

A copy of the manual manipulation of the original emission mask is attached.



I trust that this shows that this transmitter meets the requirements of Section 90.733(e).

Please do not hesitate to make contact if further information is required.

Andrew Cutler

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