FCC Response

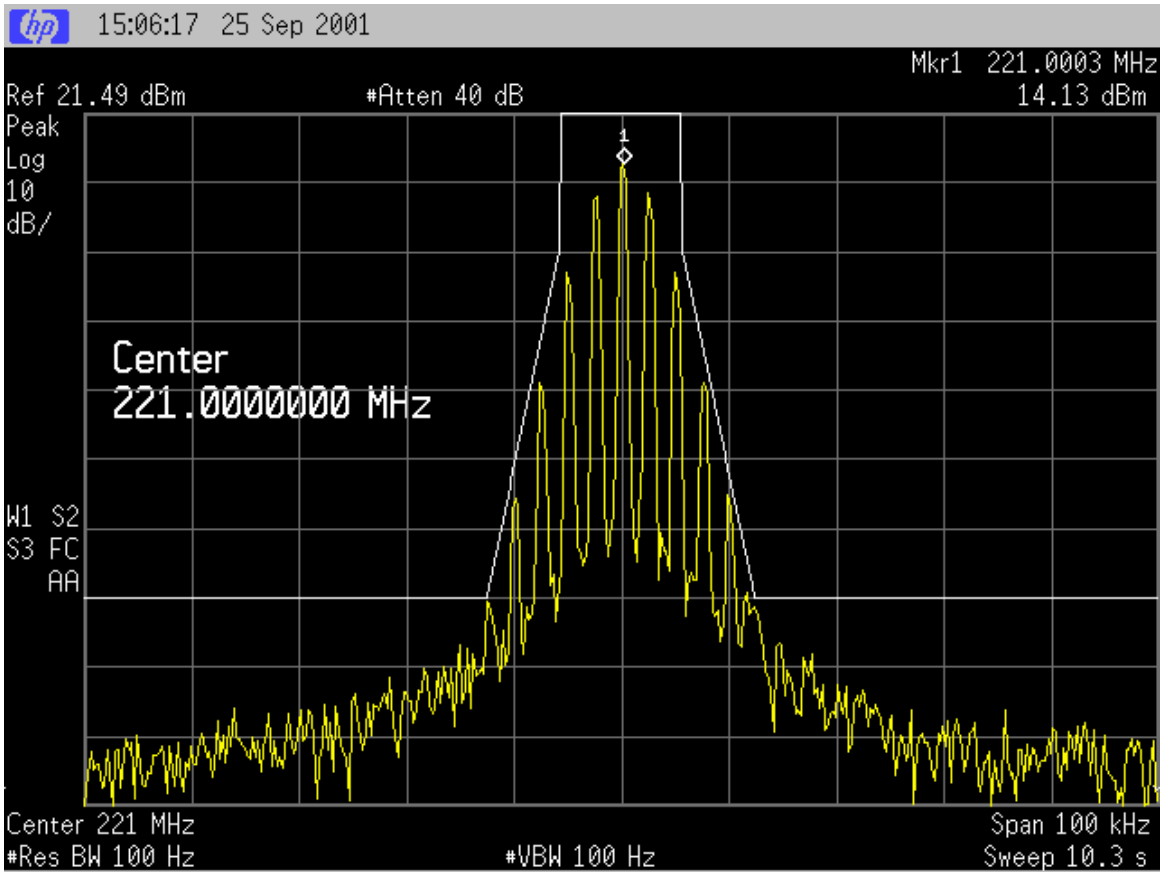
Date: 31st January 2002
FCC ID: KRE200A-AN
731 Confirmation number EA159841
Correspondence reference number: 21683

Reference has been made to Section 90.733(e).

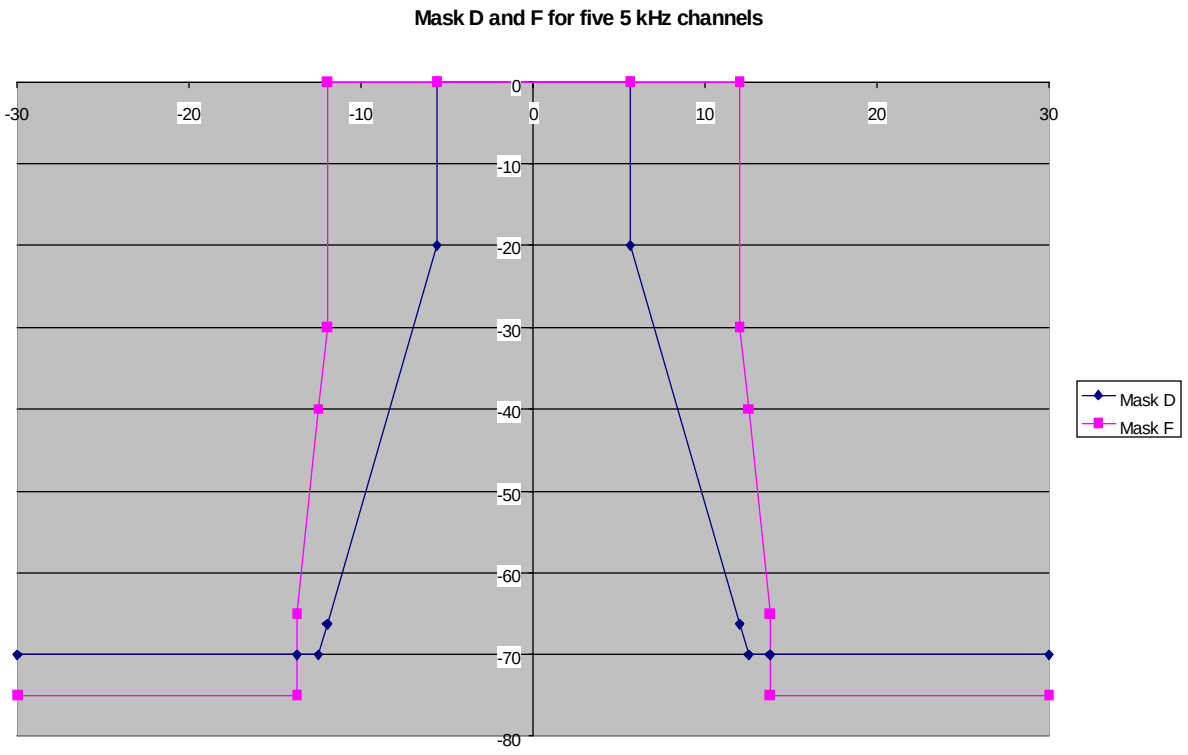
My client advises that this transmitter is to be used with a 12.5 kHz channel plan in the 220 – 222 MHz band where 5 kHz channels have been grouped together to form channels wider than 5 kHz.

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.



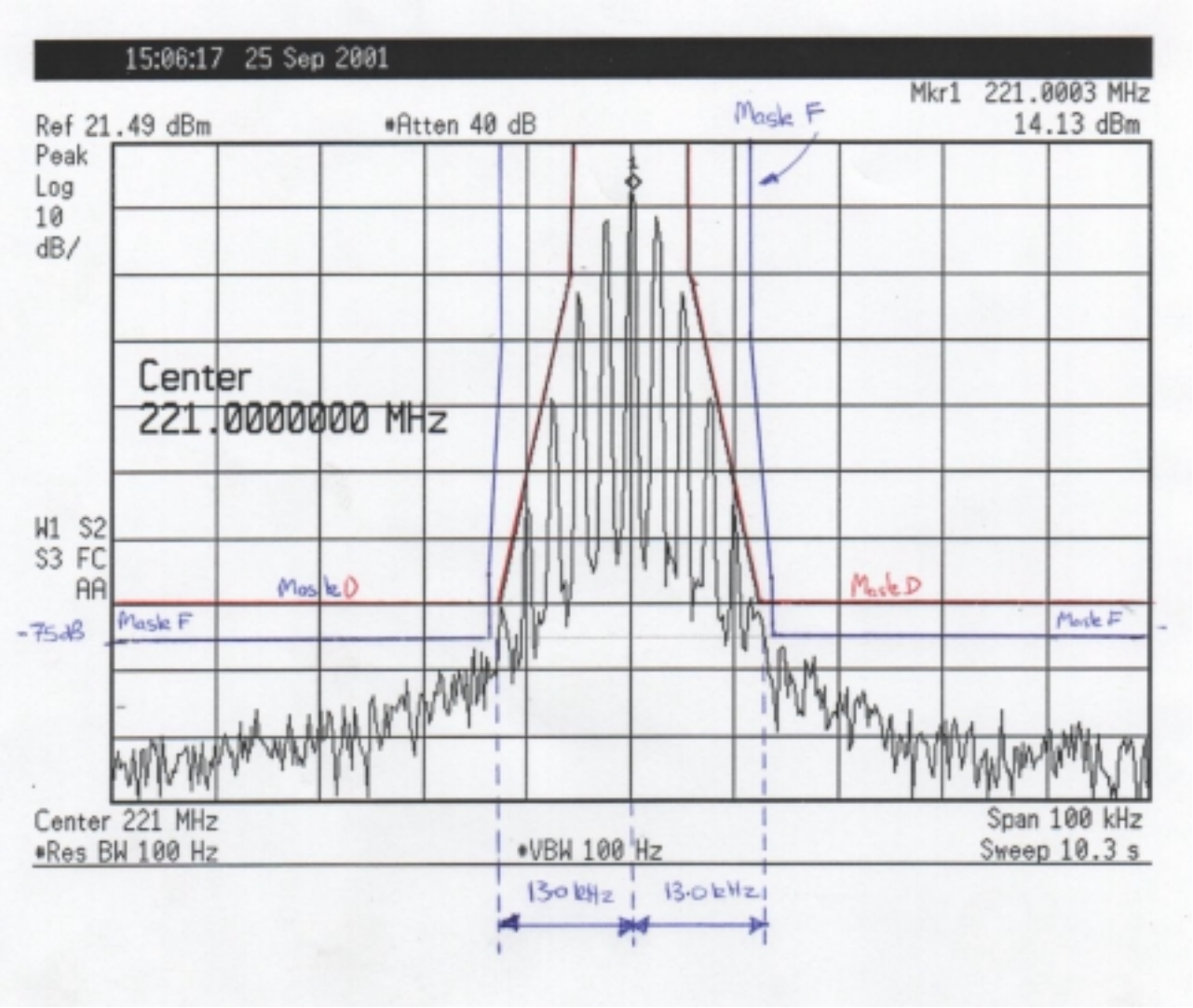
From this graph it can be seen that this transmitter would meet the requirements of emission mask F as per section 90.210(f) when five 5 kHz channels are utilised.

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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