



January 29, 2004

Timco  
c/o Ultratech  
3000 Bristol Circle  
Oakville, Ontario  
Canada L6H 6G4

Dear Sir,

This letter is in response to your request for tuning instructions to accompany the application for type certification for signal booster model 61-89A-50-A18-G1, FCC ID: EZZ5PI031202. It is our position that there is **NO** tuning of any of the components of this device required for normal operation or as part of normal maintenance.

This device uses broadband, amplifier circuitry that requires no tuning adjustments. It contains no frequency controlling circuitry. The only components that have tuning elements are the two duplexers that are used to couple the two amplifier branches to common inputs or outputs. The duplexer consists of a pair of complex combine bandpass filters that can only be tuned at the factory. These filters are tuned following a complex procedure which requires the use of a vector network analyzer capable of displaying transmission and reflection scattering parameters on a Smith-Chart display. This type of equipment is not normally available to field service technicians or engineers and therefore limits adjustments to the factory environment. The filters are passive devices of robust metal construction and will hold their tuning characteristics for the life of the equipment unless they are physically damaged. Such damage would most likely render the booster inoperable.

We therefore respectfully request that the requirement for tuning instructions be waved for this unit.

Sincerely,

Dennis G. Hohman  
Engineering Services Manager

**TX RX Systems, Inc**

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