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To : FCC

This is a FM Circuit Diagram for Radio Microphone. When the transistor Q3 (9018) was receiving the audio signal from the MIC. The capacitance C_{cb} of the Q3 will be changed. Then the frequency of the oscillator Q3 will be changed accordingly. The result of the testing is as follows:

1. The proportion of ΔC_{cb} to ΔV_{cb} is 1 PF/V.
2. For oscillator Q3 the proportion of the frequency Δf to the Capacitance ΔC_{cb} is 1.029MHz/PF and the proportion of the frequency Δf to the ΔV_{cb} is 1.029KHz/mV.
3. For this circuit, the maximum input signal of the Q3 is 120mV P-P. And as a result the Band-width of the Radiated Signal from Q3 is 120 KHz which should be less than 200 KHz.
4. In this circuit, you may adjust the Resistance of R2 to control the maximum input Level of Q3 to maintain the Band-width which is less than 200 KHz.

For and on behalf of
SUPERIOR FOCUS INTERNATIONAL (ASIA) LIMITED
欣迪國際(亞洲)有限公司

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Authorized Signature(s)