



Date: December 15, 2006

Authorization & Evaluation Division  
Federal Communications Commission Laboratory  
7435 Oakland Mills Road  
Columbia, MD 21046

SUBJECT: APPLICATION FOR CLASS 2 PERMISSIVE CHANGE TO FCC AUTHORIZED  
Transceiver with FCC ID: AZ489FT4876

Dear Sir / Madam,

A permissive change is requested for the subject transceiver which is marketed in the United States and elsewhere as the MOTOTRBO UHF R1 Portable.

A. DESCRIPTION OF PRODUCT CHANGES, RF Section:

1. Split VCO tank coupling cap in parallel to improve phase noise margin.
2. Rx VCO coil L202 changed from air wound coil to 0603 chip inductor to improve microphonics margin.
3. Rx IF amplifier coil L417 changed from air wound coil to 0603 chip inductor to improve microphonics margin.
4. DC supply switch, Q702 changed from 4816013H01 to 4815055H01 to meet the JEDEC requirement for the Pre-driver.
5. Increased clearance between the Remote port Harmonic Filter and Rx Mixer to improve LO leakthrough
6. Added a dc switch circuit to prevent a 'pop' noise heard when a USB cable is attached to the radio that is in OFF state.

B. PERFORMANCE DIFFERENCES:

Performance data on Radiated Spurious Emissions was obtained in accordance with 47 CFR 2.1047 and 2.1033(c)(13). All Radiated Emissions performance measurements were performed at the Motorola Plantation Facility PATS which is an FCC listed site. Revised Exhibit 6G & 6F attached shows that the Conducted Spurious Emissions (2Fc) have degraded compared to the original filing but are within FCC limits and there are several harmonics present compared to those original filing. Also, attached is the revised Exhibit 3-External photographs, revised Exhibit 6A-Power Output and revised Exhibit 10-Parts List.

C. CONCLUSION:

This radio continues to meet all FCC emission requirements, including Rf Exposure, for which authorization was granted. However, the Conducted Spurious Emissions

have degraded compared to those originally reported, thus this change does meet requirements a Class-2 Permissive Change.

Sincerely,

/s/Mike Ramnath(signed)

Mike Ramnath

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