1046-13-425 Daniel D. Anderson* (dan-anderson@uiowa.edu), University of Iowa, Department of Mathematics, 14 MacLean Hall, Iowa City, IA 52242-1419, and Sangmin Chun (sangmi-chun@uiowa.edu), University of Iowa, Department of Mathematics, 14 MacLean Hall, Iowa City, IA 52242-1419. *Finitely Generated Monoids of Fractional Ideals.*

Let R be a commutative ring with identity. Let $\overline{F}(R)$ be the monoid of R-modules of T(R), the total quotient ring of R, under multiplication. Let F(R) (resp., $F^*(R)$, P(R)) be the submonoids of fractional ideals (resp., finitely generated fractional ideals, principal fractional ideals) of R. We give necessary and sufficient conditions for these four monoids and their respective positive cones consisting of the respective integral ideals to be finitely generated. (Received September 02, 2008)