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Q-band AM Reflectometer on the DIII-D 285°-300° Fast Wave Antenna[1] G.R. HANSON, N. COMMAUX, F.W. BAITY, A.R. HORTON, J.B. WILGEN, Oak Ridge National Laboratory, A. NAGY, Princeton Plasma Physics Laboratory, R.I. PINSKER, General Atomics — A Q-band AM reflectometer has been re-installed onto the 285°-300° fast wave antenna on DIII-D to measure the local density profile in the scrape-off layer (SOL) at the ICRF antenna. This reflectometer sweeps from 32-54 GHz in 100 microseconds and uses 100 MHz amplitude modulation to allow differential-phase measurements. Initial results during RF operation will be presented, including results during gas puffing at the fast wave antenna to increase antenna loading.

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