Supporting Information

The Selective Conversion of D-limonene to \( p,\alpha \)-Dimethylstyrene

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1. **Figure 1**: GC calibration curves
2. **Figure 2**: Representative GC analysis trace
3. **Figure 3**: GC analysis trace when using optimised reaction conditions (Table 2, entry 10).
1. Figure 1. GC calibration curves

D-Limonene 1

$p$-cymene 2

Terpinolene 3

DMS 4
γ-terpinene 5

\[ y = 1611x + 0.0188 \]
\[ R^2 = 0.9998 \]

\[ y = 1374.4x + 0.1802 \]
\[ R^2 = 0.9994 \]

α-terpinene 6

\[ y = 1556.3x + 0.0843 \]
\[ R^2 = 0.9981 \]
2.

**Figure 2.** Representative GC analysis from the reaction using anhydrous DMF, anhydrous 2,6-tBu_2_Py, 5 mol% Pd(OTFA)_2, CuCl_2 and 4Å molecular sieves at 80 °C under an argon atmosphere for 40 h (Table 1, entry 4).

**Figure 3.** Representative GC analysis trace when using the improved reaction conditions (Table 2, entry 10).