Dependent variable: Product quality (city/product/trade regime/year) Eligible Non-Eligible (2)

Table 1: VAT export tax and firm's quality upgrading, Effect of density

0.394***

(0.033)

0.577***

(0.023)

1.101

(0.852)

-0.005

(0.191)

0.054

(0.127)

-0.841

(0.957)

No

No

No

Yes

Yes

Yes

4,744,218

0.284

This table estimates eq(3). LDC and DC are defined according to the World Bank country classification. Homogeneous and heterogeneous goods are defined according to the official list of goods's classification, Rauch (1999). Small and large are computed based on either the count of HS6 exported by city c or the total quantity exported. When one of these two metrics are above national average, the city is considered as large. Note that 'Eligible' refers to the regime entitle to VAT refund, our treatment group. Our control group is processing trade with supplied input, 'Non-Eligible' to VAT refund. Sectors are defined following the Chinese 4-digit GB/T industry classification and regroup several products. Heteroskedasticityrobust standard errors clustered at the product level appear inparentheses. Significance at the 10%, ** Significance at the 5%, *** Significance at the 1%.

(3)

-0.068

(0.163)

0.052***

(0.017)

0.311***

(0.017)

-0.072

(0.103)

0.039

(0.814)

Yes

Yes

Yes

No

No

No

745,297

0.608

-0.364***

(0.101)

0.132***

(0.013)

0.434***

(0.020)

0.017

(0.048)

0.495

(0.315)

Yes

Yes

Yes

No

No

No

3,998,921

0.409

(4)

0.394***

(0.033)

0.576***

(0.023)

1.173

(0.862)

0.002

(0.191)

-0.052*(0.029)

0.054

(0.127)

-0.818

(0.966)

-0.024(0.030)

No

No

No

Yes

Yes

Yes

4,744,218

0.284

	·	
	(1)	
Ln VAT export $tax_{k,t-1}$		-
$\mathrm{Density}_{ck}$		

lag foreign export share $_{ckir}^{R}$

lag SOE export share $_{ck,ir}^R$

Ln VAT import $tax_{k,t-1}$

 $Density_{ck} \times Eligible^R$

 $\text{Eligible}^R \times \text{Comp Adv}_{cl}$

City-product fixed effects

Observations

 \mathbb{R}^2

City-sector-year fixed effects

Product-destination fixed effect

City-product-regime fixed effects

City-sector-regime-year fixed effects product-year fixed effects

Ln VAT export $tax_{k,t-1} \times Density_{ck}$

Ln VAT export $tax_{k,t-1} \times Eligible^R$

Ln VAT export $tax_{k,t-1} \times Comp \ Adv_{ck}$

Ln VAT import $tax_{k,t-1} \times Eligible^R$

Ln VAT export $tax_{k,t-1} \times Density_{ck} \times Eligible^R$

Ln VAT export $tax_{k,t-1} \times Eligible^R \times Comp \ Adv_{ck}$

Comp Adv_{ck}