

Numbers of generated sentence	200	400	600	800	1000
RNNLM (Taobao)	0.965	0.967	0.967	0.967	0.967
SeqGAN (Taobao)	0.968	0.970	0.970	0.968	0.968
VGAN-pre (Taobao)	0.968	0.968	0.967	0.968	0.968
VGAN (Taobao)	0.969	0.972	0.970	0.969	0.969
RNNLM (Amazon)	0.831	0.842	0.845	0.846	0.848
SeqGAN (Amazon)	0.846	0.851	0.852	0.853	0.856
VGAN-pre (Amazon)	0.842	0.849	0.854	0.849	0.848
VGAN (Amazon)	0.876	0.874	0.866	0.868	0.868
RNNLM (PTB)	0.658	0.650	0.654	0.655	0.662
SeqGAN (PTB)	0.712	0.705	0.701	0.702	0.681
VGAN-pre (PTB)	0.680	0.690	0.694	0.695	0.671
VGAN (PTB)	0.715	0.709	0.714	0.715	0.695