Table S3 Effect of the glycerol concentration on the performance of the 4.6%Cu/HZSM-5(38) catalyst.

Entry	Gc (wt.%)	Conversion (%)	Carbon yield (%)									Yield[a] (%)	Yield[b] (%)	CB (%)
			Pyr	2-Pico	3-Pico	AN	PN	AA	C_2H_4	C_3H_6	CO_2			
1	10	99.9	36.6	0.7	3.3	7.6	1.2	2.1	2.3	1.4	7.8	8.8	40.6	63.0
2	15	99.7	35.4	1.8	4.3	7.6	1.5	2.0	3.9	4.3	7.9	9.1	41.5	68.6
3	**20**	**99.8**	**34.9**	**2.0**	**5.9**	**7.3**	**1.4**	**1.3**	**3.2**	**2.1**	**12.7**	**8.7**	**42.8**	**70.8**
4	25	99.8	27.1	2.6	7.5	4.8	1.4	2.7	5.0	3.3	13.0	6.2	37.2	67.4
5	30	97.5	21.9	1.7	7.2	4.2	0.8	4.8	5.9	3.9	10.8	4.9	30.7	61.1

Gc: glycerol concentration; Pyr: pyridine; 2-Pico: 2-picoline; 3-Pico: 3-picoline; AN: acetonitrile; PN: propionitrile; AA: acetaldehyde; CB: carbon balance.

Reaction conditions: reaction temperature 520°C, ammonia/glycerol molar ratio 7:1, atmospheric pressure, GHSV 300 h^{-1} , time on stream 2–4 h.

[a] Total carbon yield of acetonitrile and propionitrile.

[b] Total carbon yield of pyridine, 2-picoline and 3-picoline.