

Table 1 The mean concentration and Fractions of target compounds in wastewater and sludge in the WWTP in Harbin, China

	Concentration				Fraction			
	Influent (ng/L)	Effluent (ng/L)	DS (ng/g dw)	AOS (ng/g dw)	Influent (%)	Effluent (%)	DS (%)	AOS (%)
ATE	1.76	0.13	22.7	0.315	2.91	0.90	3.28	0.05
TBCT	0.02	0.09	13.9	1.83	0.03	0.62	2.01	0.27
PBT	0.33	2.22	6.00	10.3	0.55	15.34	0.87	1.53
PBEB	0.04	0.07	0.27	1.11	0.07	0.48	0.04	0.16
DPTE	0.74	0.7	2.97	8.15	1.23	4.84	0.43	1.21
HBBZ	0.6	0.26	3.59	7.55	0.99	1.80	0.52	1.12
HCDBCO	0.65	0.64	15.8	34.8	1.08	4.42	2.28	5.17
EHTBB	5.81	1.35	15.9	6.03	9.62	9.33	2.29	0.90
HBCD	9.57	1.78	11.2	124	15.9	12.3	1.62	18.4
BTBPE	0.47	0.03	42.5	4.41	0.78	0.21	6.13	0.65
BEHTBP	11.23	1.59	242	172	18.6	11.0	34.9	25.5
DBDPE	29.17	5.61	316	303	48.3	38.8	45.6	45.0
ΣNBFRs	60.4	14.5	693	673				
BDE 17	0.09	-	3.08	2.3	0.06	0.00	0.49	0.64
BDE 28	0.11	0.07	6.98	3.33	0.07	0.43	1.10	0.93
BDE 49	0.32	0.134	6.63	2.01	0.21	0.82	1.05	0.56
BDE 47	0.55	0.013	4.25	7.32	0.36	0.08	0.67	2.05
BDE 66	0.13	-	0.29	0.12	0.09	0.00	0.05	0.03
BDE 100	0.6	0.012	1.38	0.47	0.39	0.07	0.22	0.13
BDE 99	0.08	0.04	3.54	6.99	0.05	0.25	0.56	1.96
BDE 85	0.01	0.004	0.69	0.05	0.01	0.02	0.11	0.01
BDE 154	0.06	0.118	0.08	0.32	0.04	0.73	0.01	0.09
BDE 153	0.06	0.07	1.35	1.02	0.04	0.43	0.21	0.29
BDE 138	0.06	0.077	2.6	8.58	0.04	0.47	0.41	2.40
BDE 183	0.18	0.022	0.84	1.41	0.12	0.14	0.13	0.40
BDE 209	150	15.7	602	323	98.5	96.6	95.0	90.5
ΣPBDEs	152	16.3	634	357				

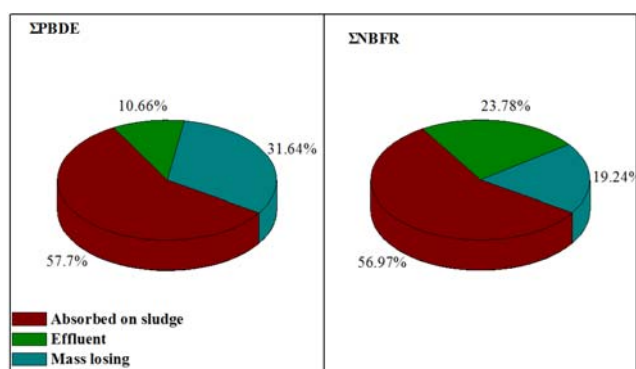


Fig.1 The fate of the PBDEs and NBFRs in the WWTP in Harbin, China