

Table S3: Calibration of newly introduced factors and errors.

Case	A factor associated with mass transfer resistance	A factor associated with degradation enhancement	Error (µg/L)
C73-L100-S	0.2	1	14.6
	1	1	22.2
C43-L200-S	1	45	2.07
	1	1	70.9
C190-L400-S	1	90	3.75
	1	1	1363
C100-L100-S	0.2	1	1.83
	1	1	8.53
C100-L200-S	1	45	1.42
	1	1	161
C100-L400-S	1	90	3.13
	1	1	718
C76-L050-U	0.4	1	0.079
	1	1	0.080
C79-L200-U	0.6	1	2.40
	1	1	1.29
C236-L050-U	0.4	1	0.076
	1	1	0.080
C171-L200-U	0.6	1	2.63
	1	1	7.52
C050G-L050-U	0.4	1	351
	1	1	352

Note: Factor values for calibration were highlight in bold.