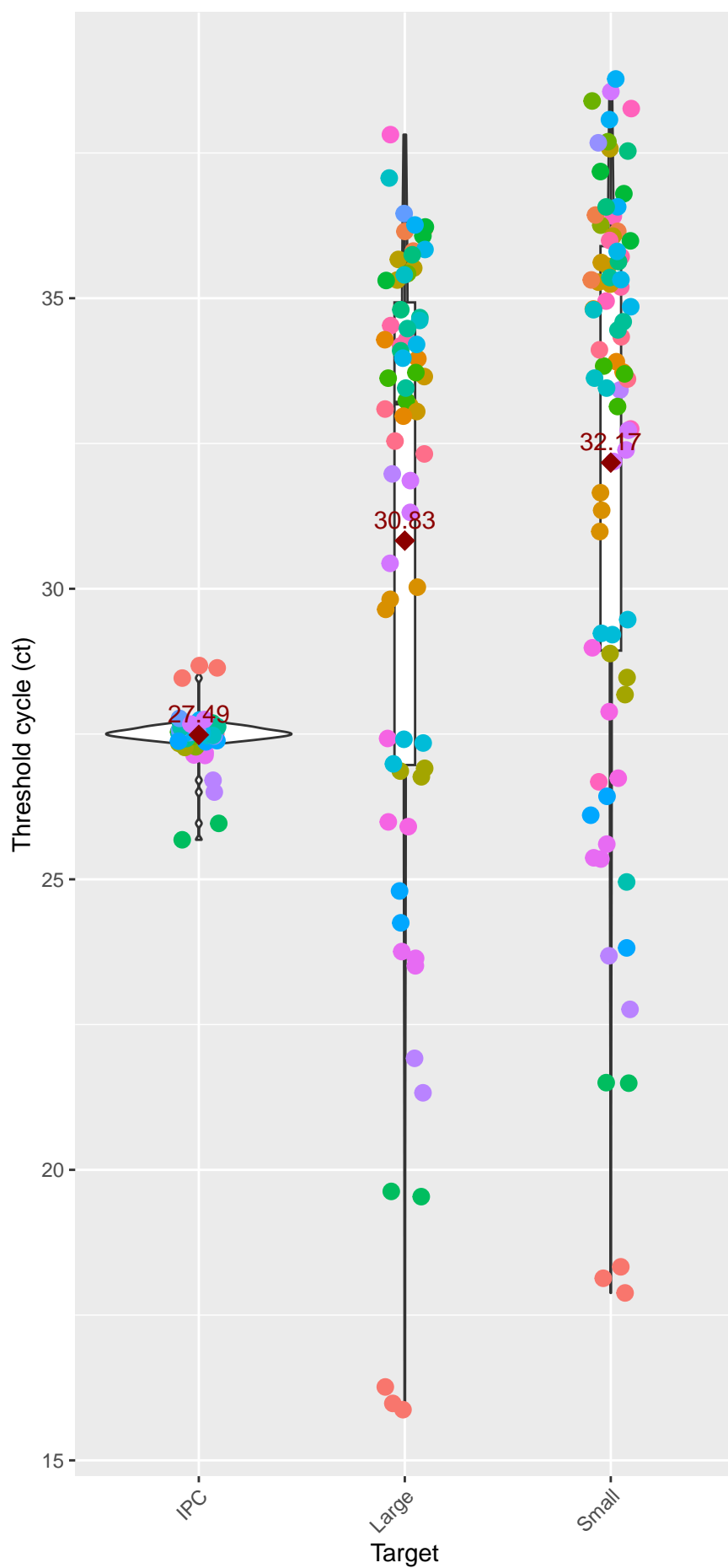


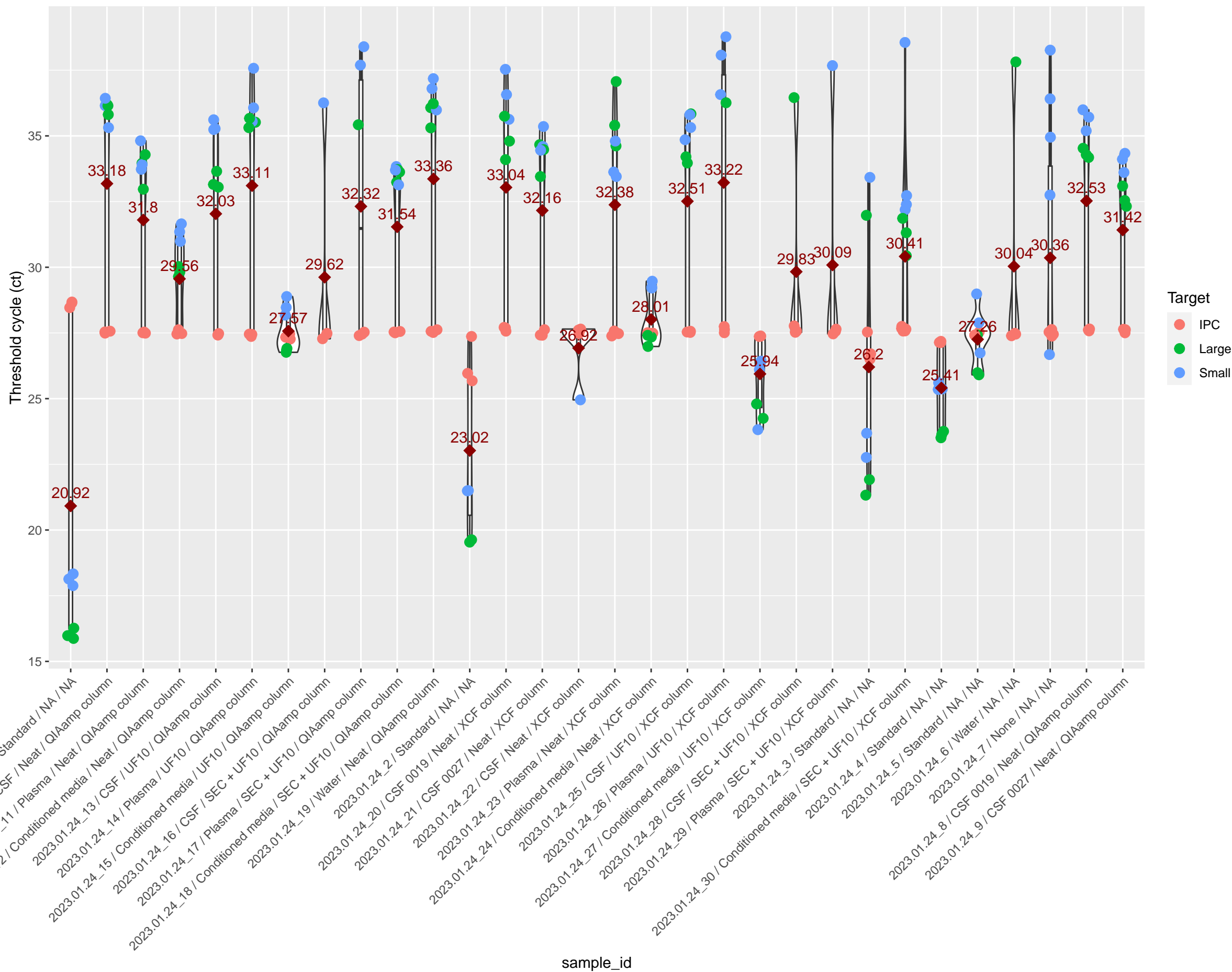
Targets



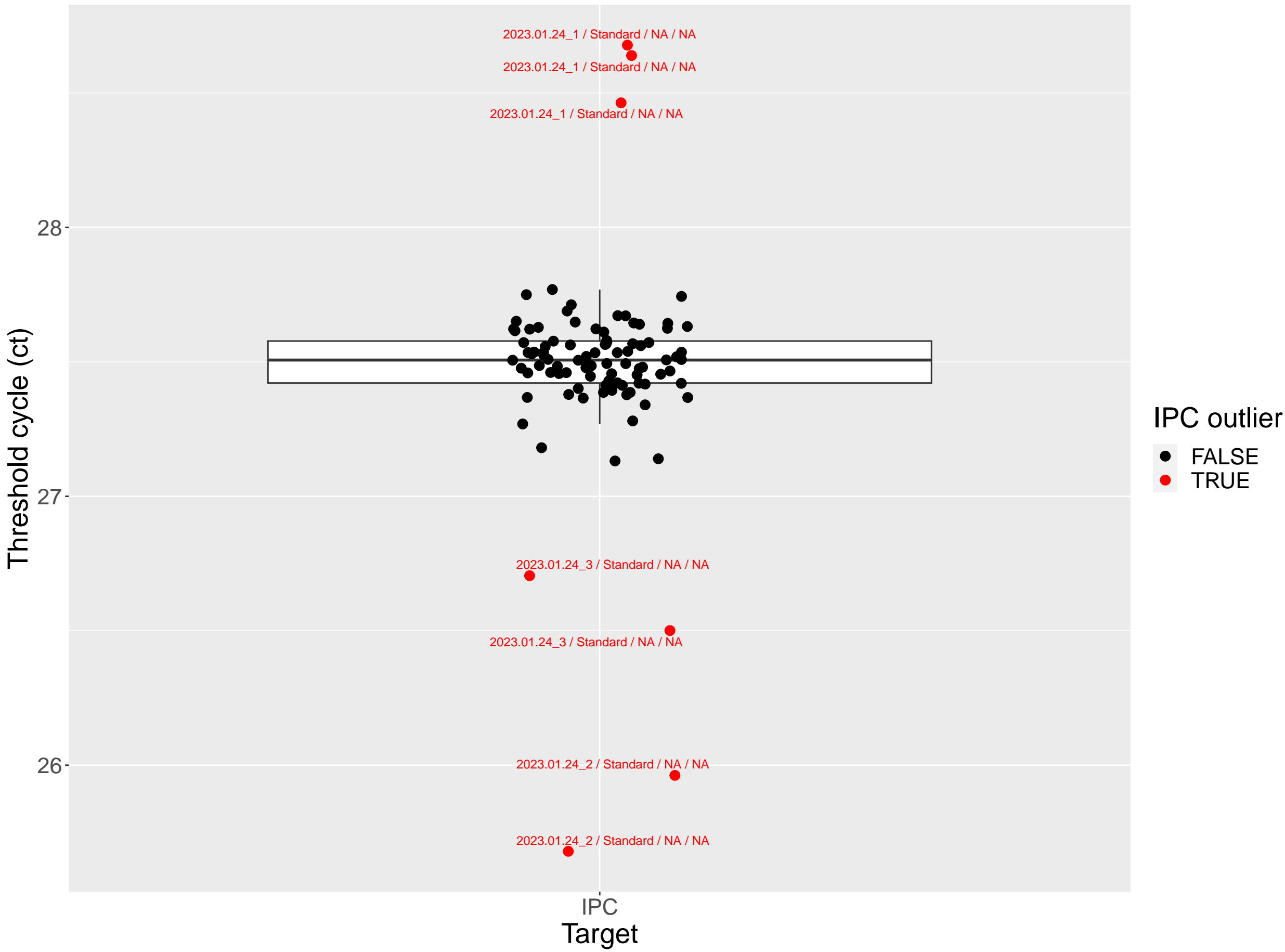
sample_id

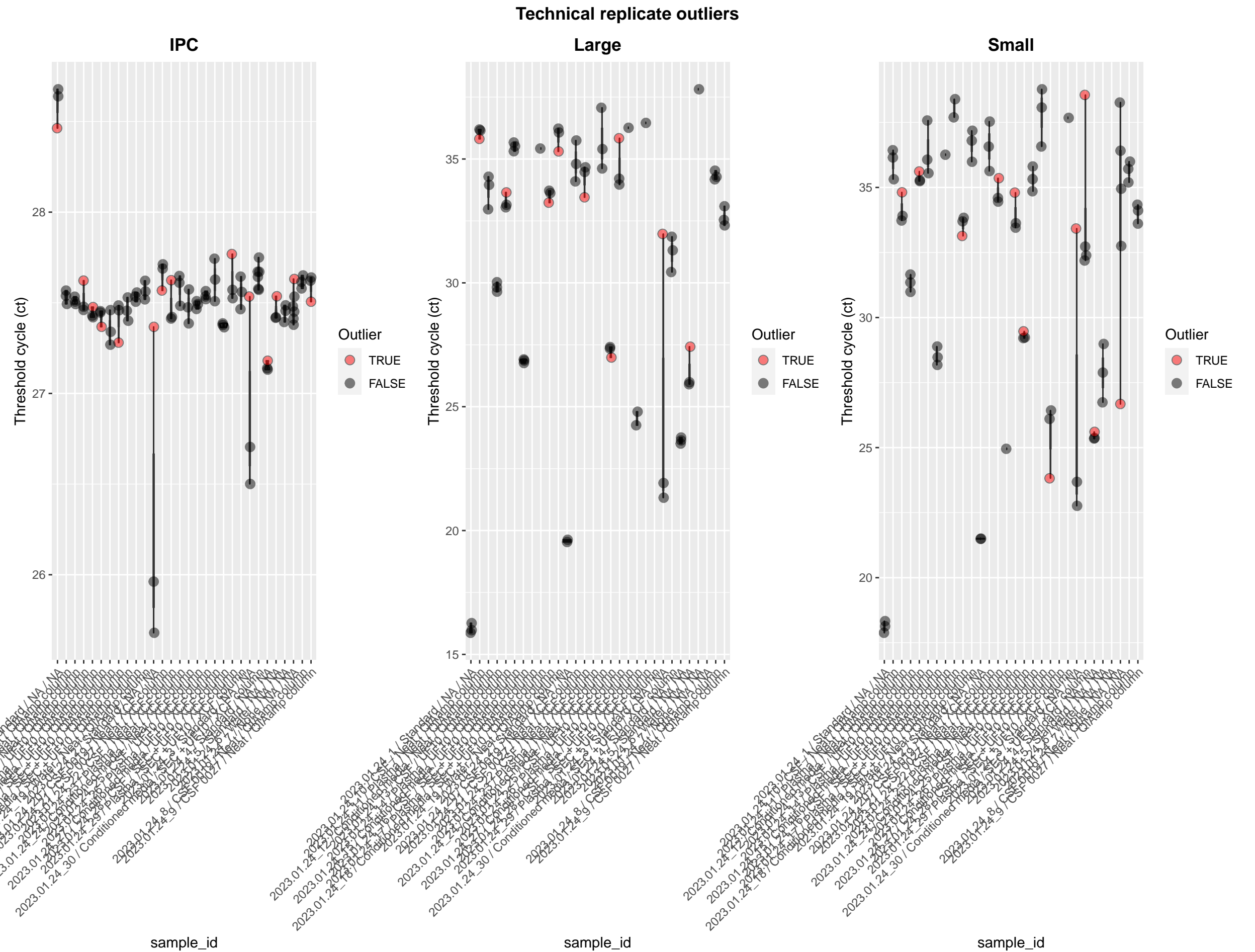
- 2023.01.24_1 / Standard / NA / NA
- 2023.01.24_10 / CSF / Neat / QIAamp column
- 2023.01.24_11 / Plasma / Neat / QIAamp column
- 2023.01.24_12 / Conditioned media / Neat / QIAamp column
- 2023.01.24_13 / CSF / UF10 / QIAamp column
- 2023.01.24_14 / Plasma / UF10 / QIAamp column
- 2023.01.24_15 / Conditioned media / UF10 / QIAamp column
- 2023.01.24_16 / CSF / SEC + UF10 / QIAamp column
- 2023.01.24_17 / Plasma / SEC + UF10 / QIAamp column
- 2023.01.24_18 / Conditioned media / SEC + UF10 / QIAamp column
- 2023.01.24_19 / Water / Neat / QIAamp column
- 2023.01.24_2 / Standard / NA / NA
- 2023.01.24_20 / CSF 0019 / Neat / XCF column
- 2023.01.24_21 / CSF 0027 / Neat / XCF column
- 2023.01.24_22 / CSF / Neat / XCF column
- 2023.01.24_23 / Plasma / Neat / XCF column
- 2023.01.24_24 / Conditioned media / Neat / XCF column
- 2023.01.24_25 / CSF / UF10 / XCF column
- 2023.01.24_26 / Plasma / UF10 / XCF column
- 2023.01.24_27 / Conditioned media / UF10 / XCF column
- 2023.01.24_28 / CSF / SEC + UF10 / XCF column
- 2023.01.24_29 / Plasma / SEC + UF10 / XCF column
- 2023.01.24_3 / Standard / NA / NA
- 2023.01.24_30 / Conditioned media / SEC + UF10 / XCF column
- 2023.01.24_4 / Standard / NA / NA
- 2023.01.24_5 / Standard / NA / NA
- 2023.01.24_6 / Water / NA / NA
- 2023.01.24_7 / None / NA / NA
- 2023.01.24_8 / CSF 0019 / Neat / QIAamp column
- 2023.01.24_9 / CSF 0027 / Neat / QIAamp column

Samples



IPC outlier wells



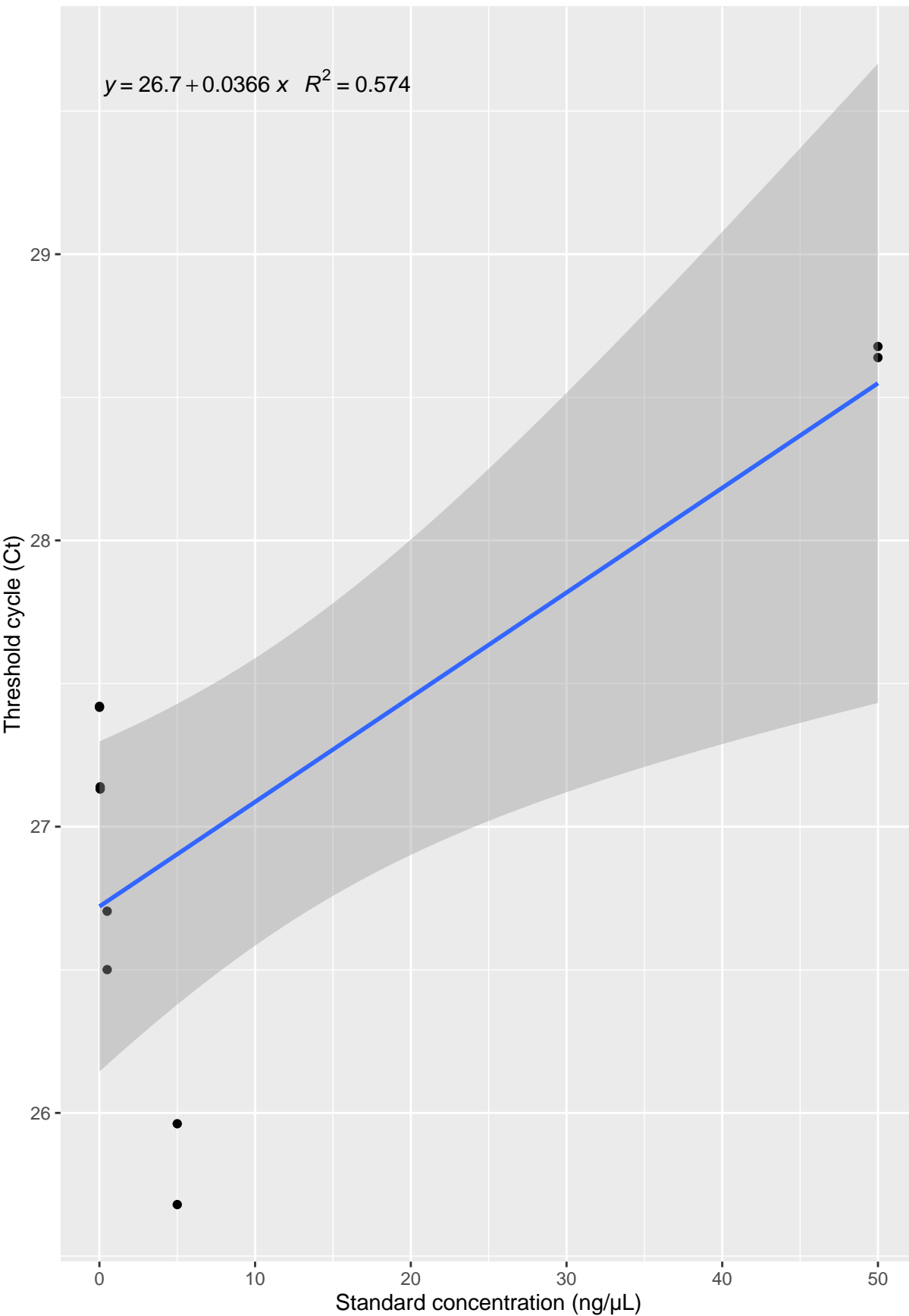


IPC standard curve

linear

$y \sim x$

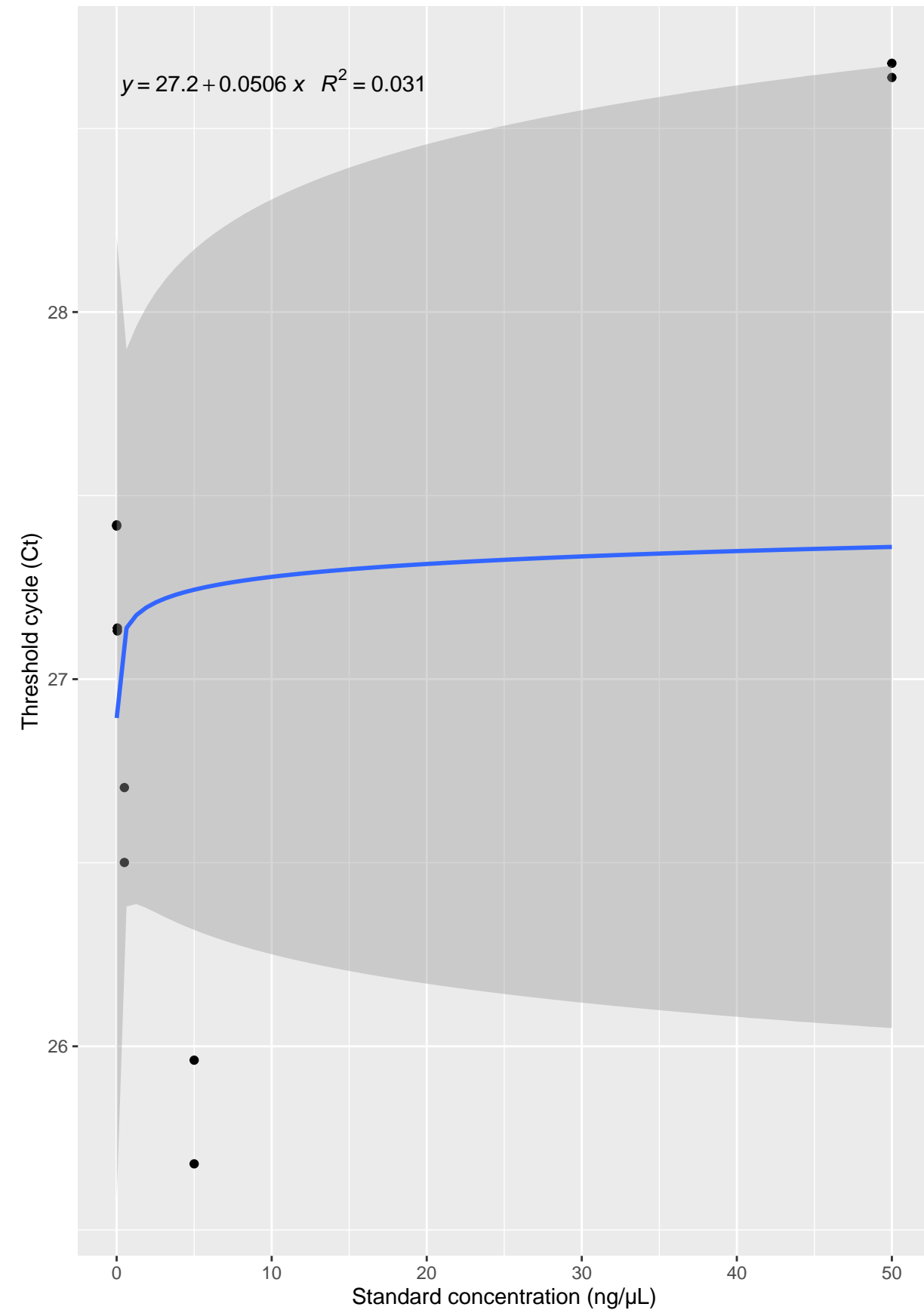
$$y = 26.7 + 0.0366x \quad R^2 = 0.574$$



log

$y \sim \log(x)$

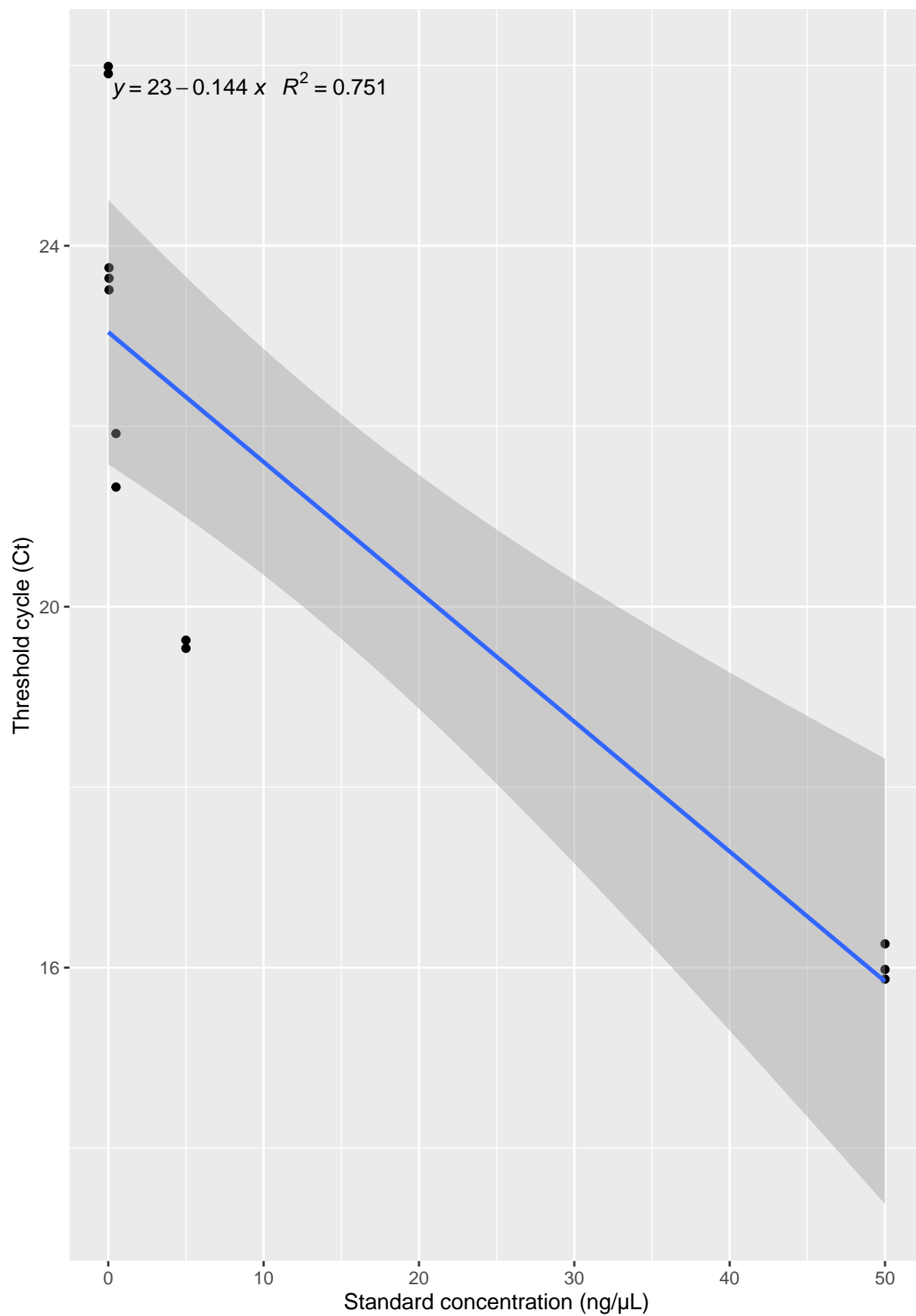
$$y = 27.2 + 0.0506x \quad R^2 = 0.031$$



Large standard curve

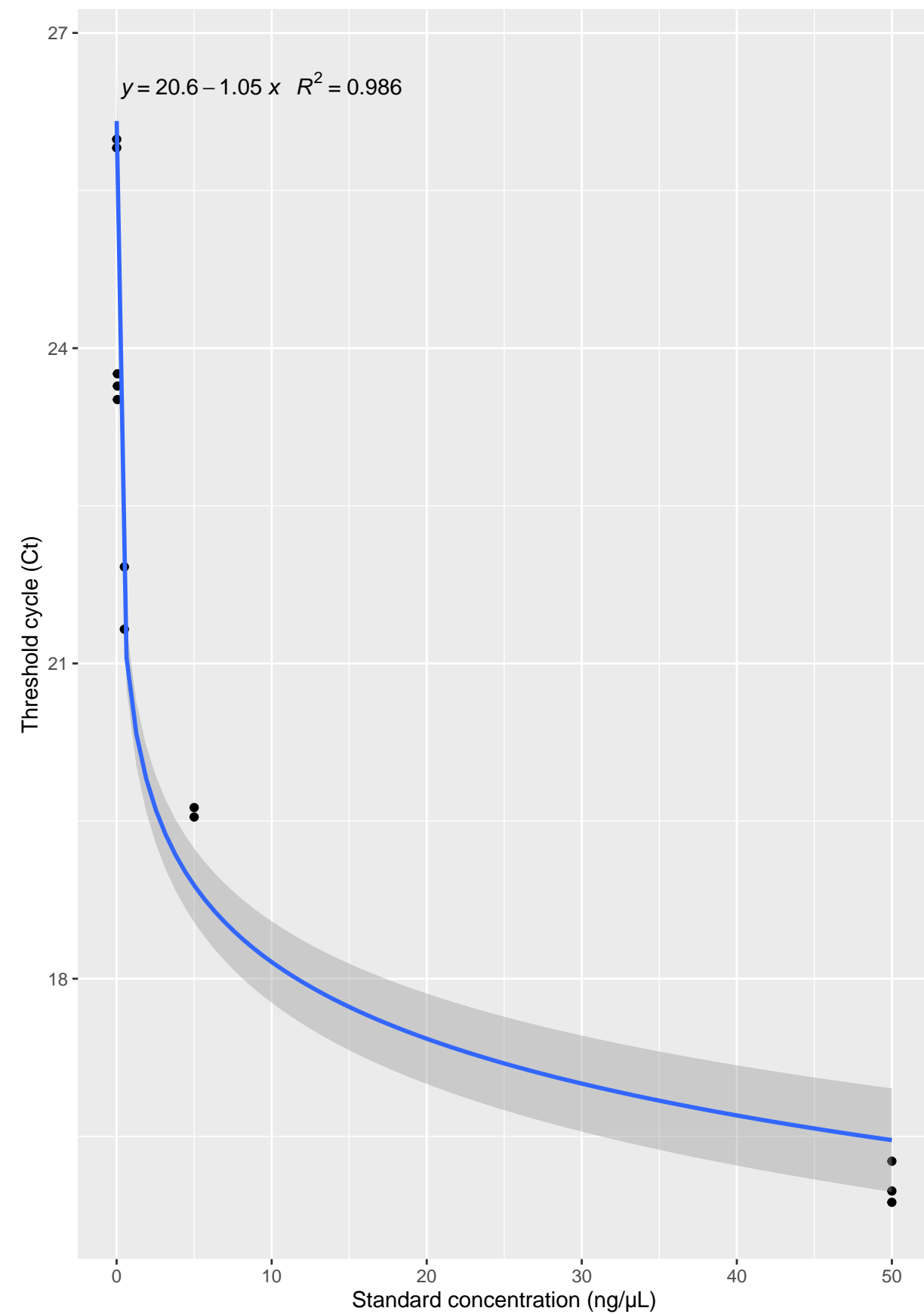
linear

$y \sim x$



log

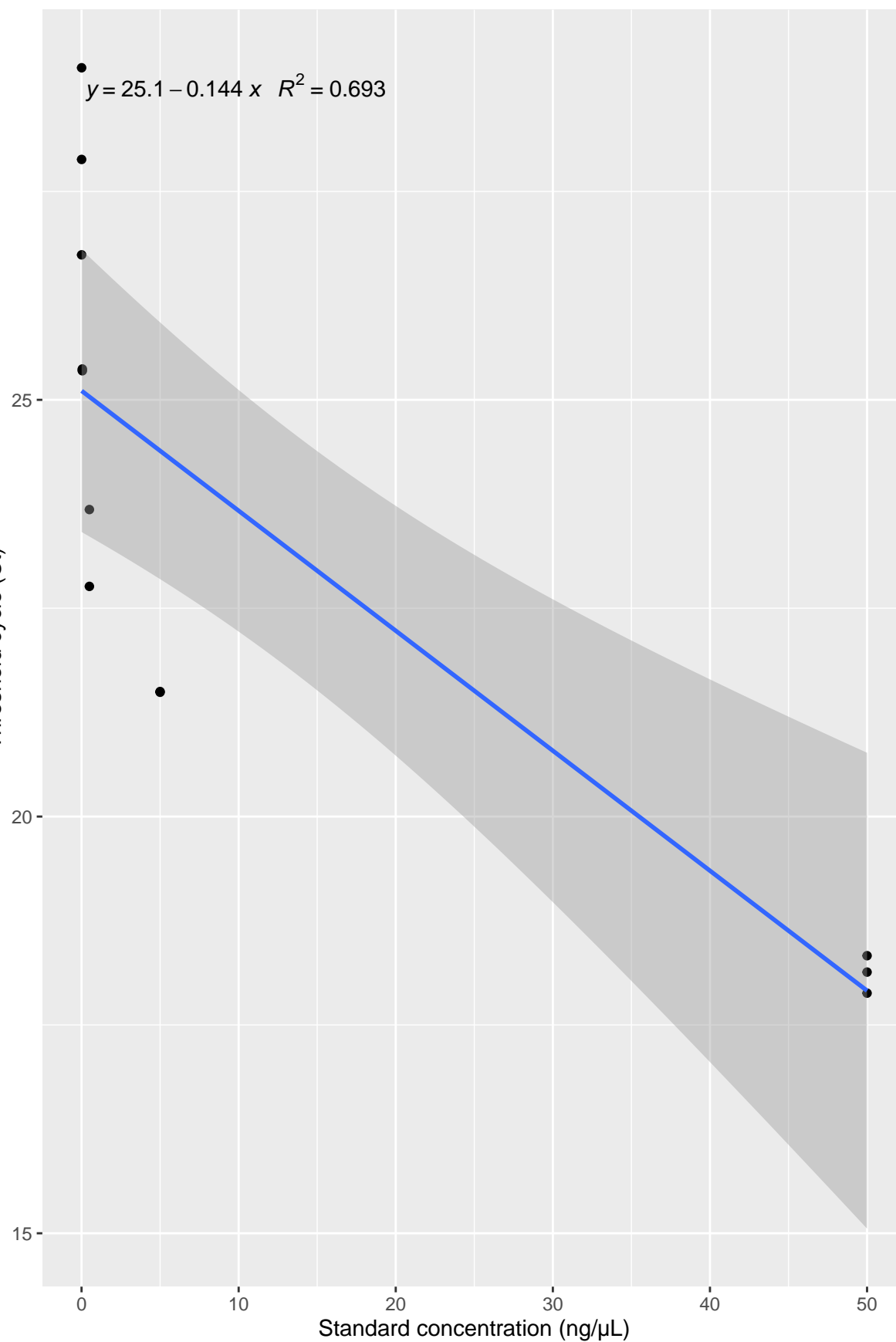
$y \sim \log(x)$



Small standard curve

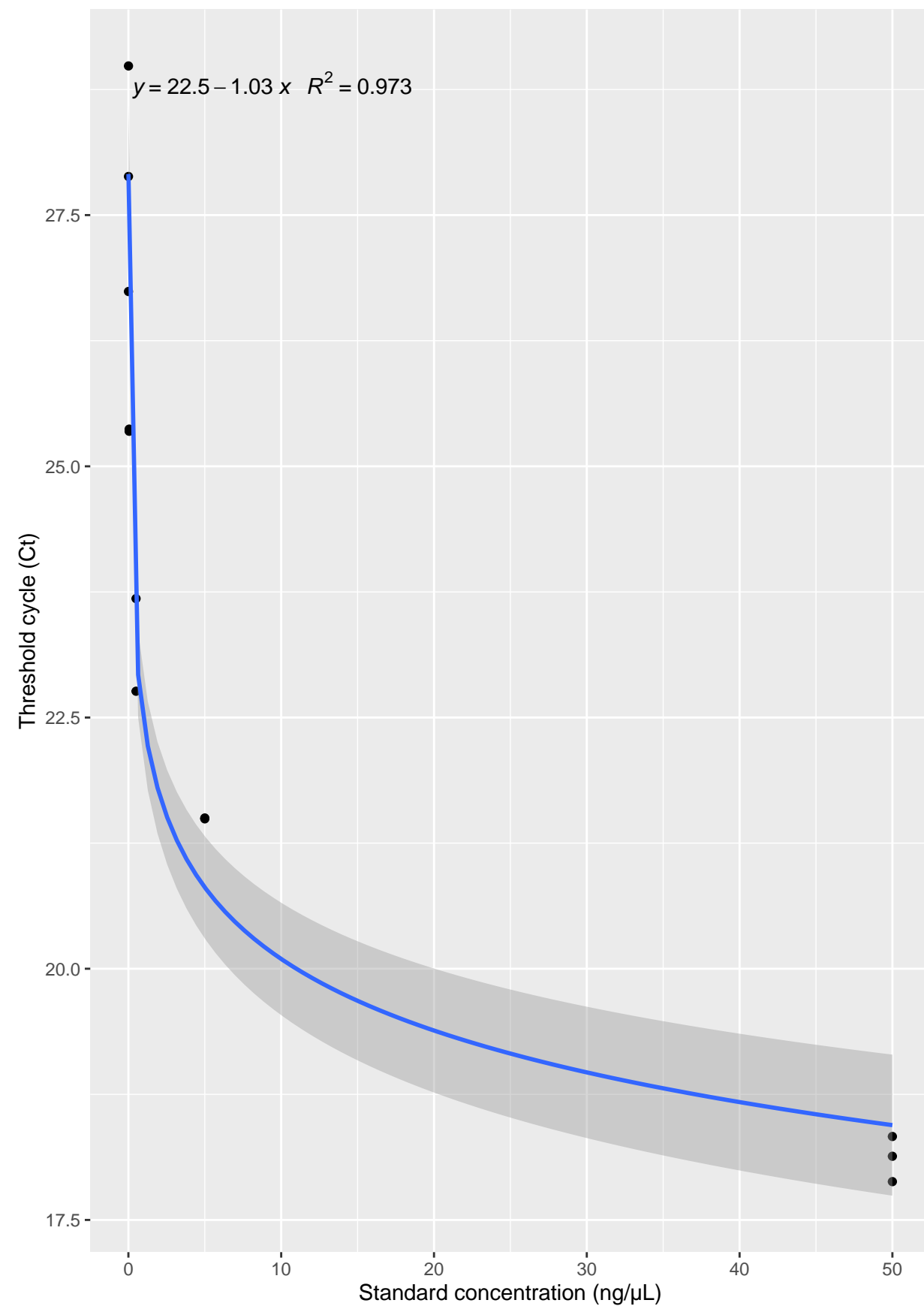
linear

$y \sim x$



log

$y \sim \log(x)$



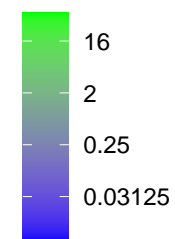
IPC

Predictive model: linear [y ~ x]

$$y = 16.8 + 0.795x \quad R^2 = 0.031$$

Observed concentration

Standard concentration



219902325552

33554432

512

0.00781

0.03125

0.5

8

Standard concentration (ng/μL)

0.005

0.005

0.05

0.05

0.5

0.5

5

5

50

50

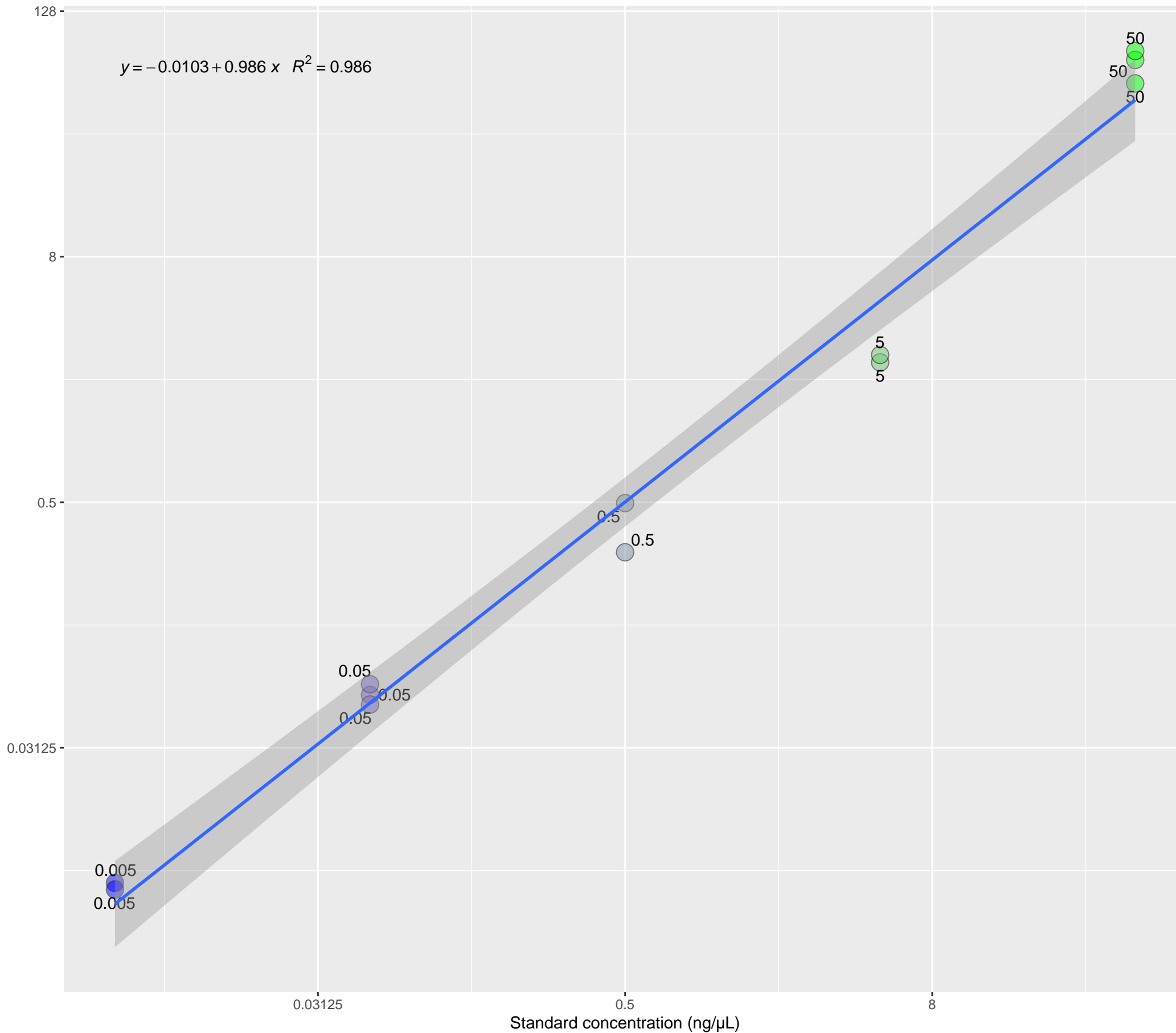
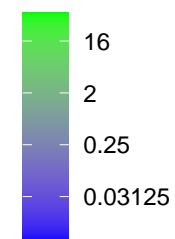
Large

Predictive model: $\log [y \sim \log(x)]$

Observed concentration

$$y = -0.0103 + 0.986 x \quad R^2 = 0.986$$

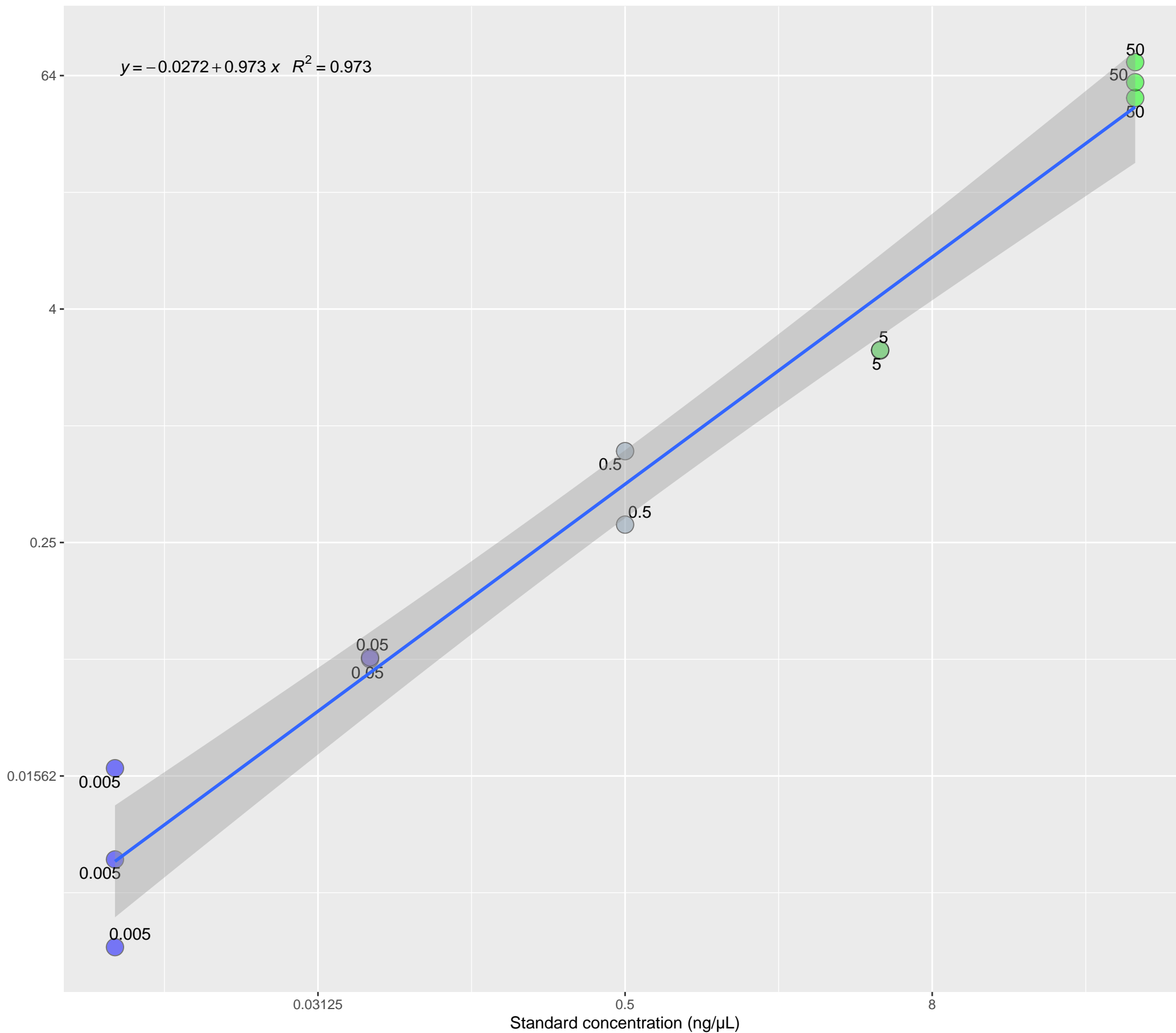
Standard concentration



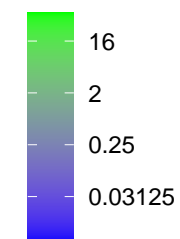
Small

Predictive model: $\log [y \sim \log(x)]$

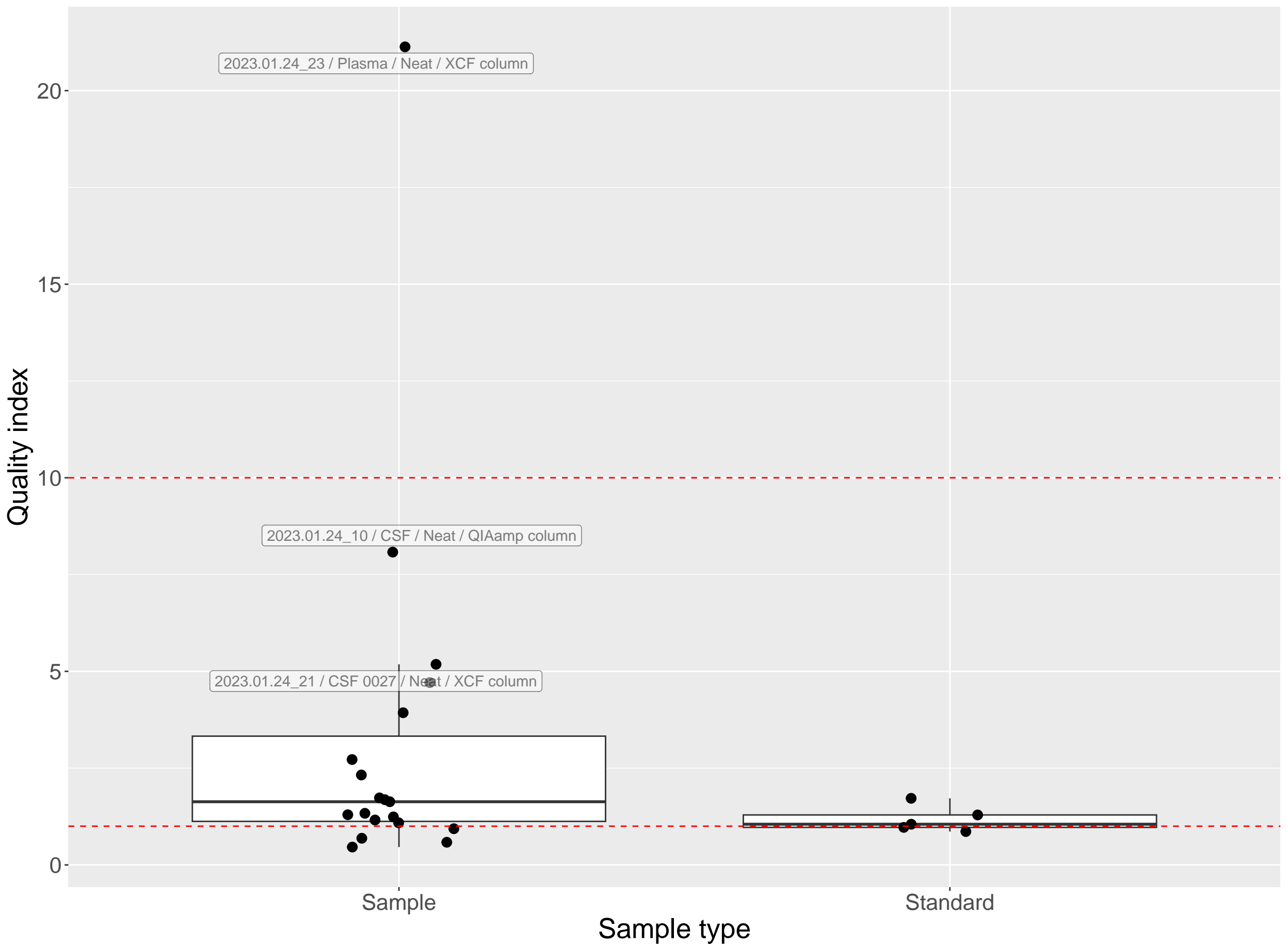
Observed concentration



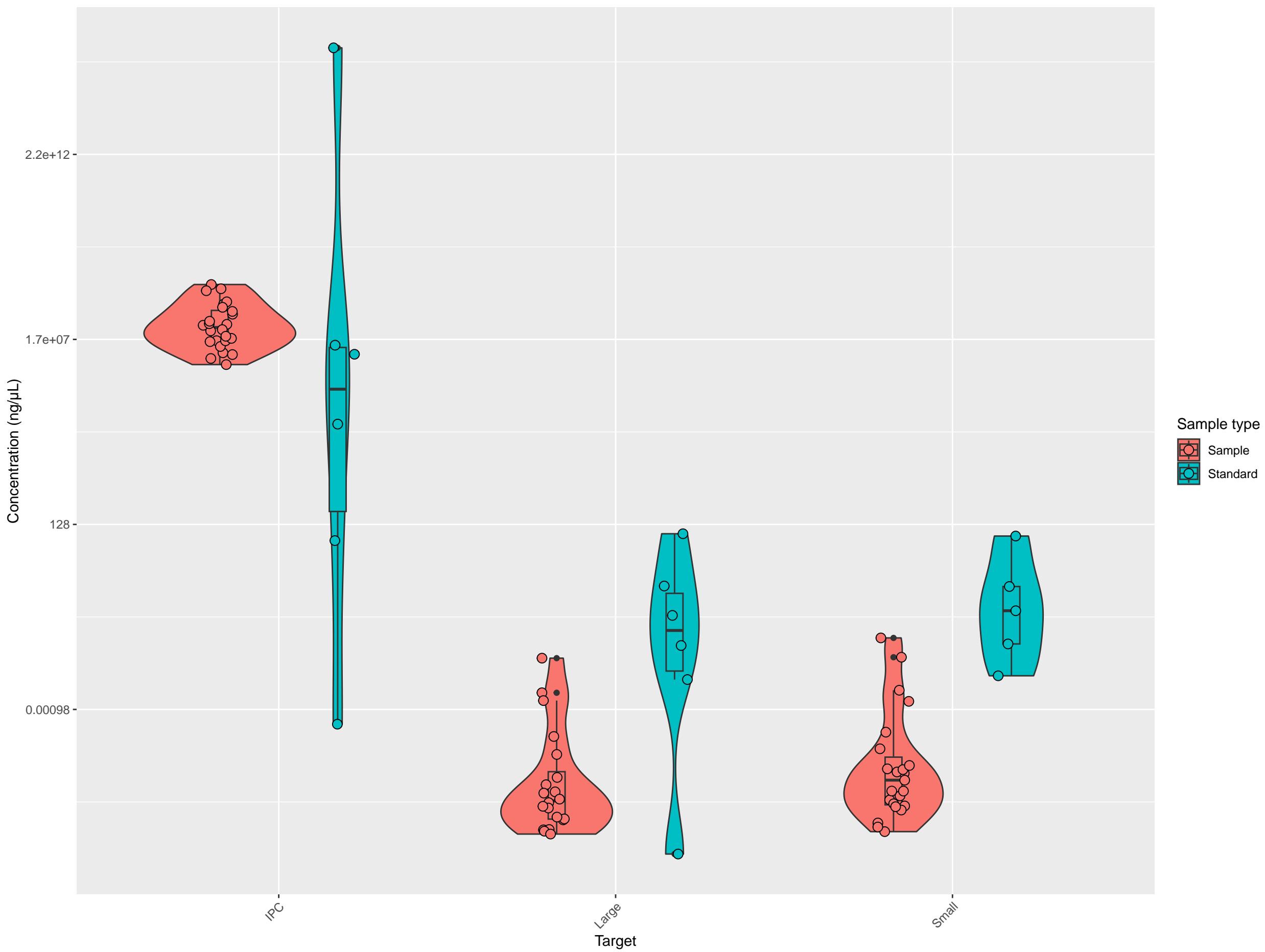
Standard concentration



Quality index

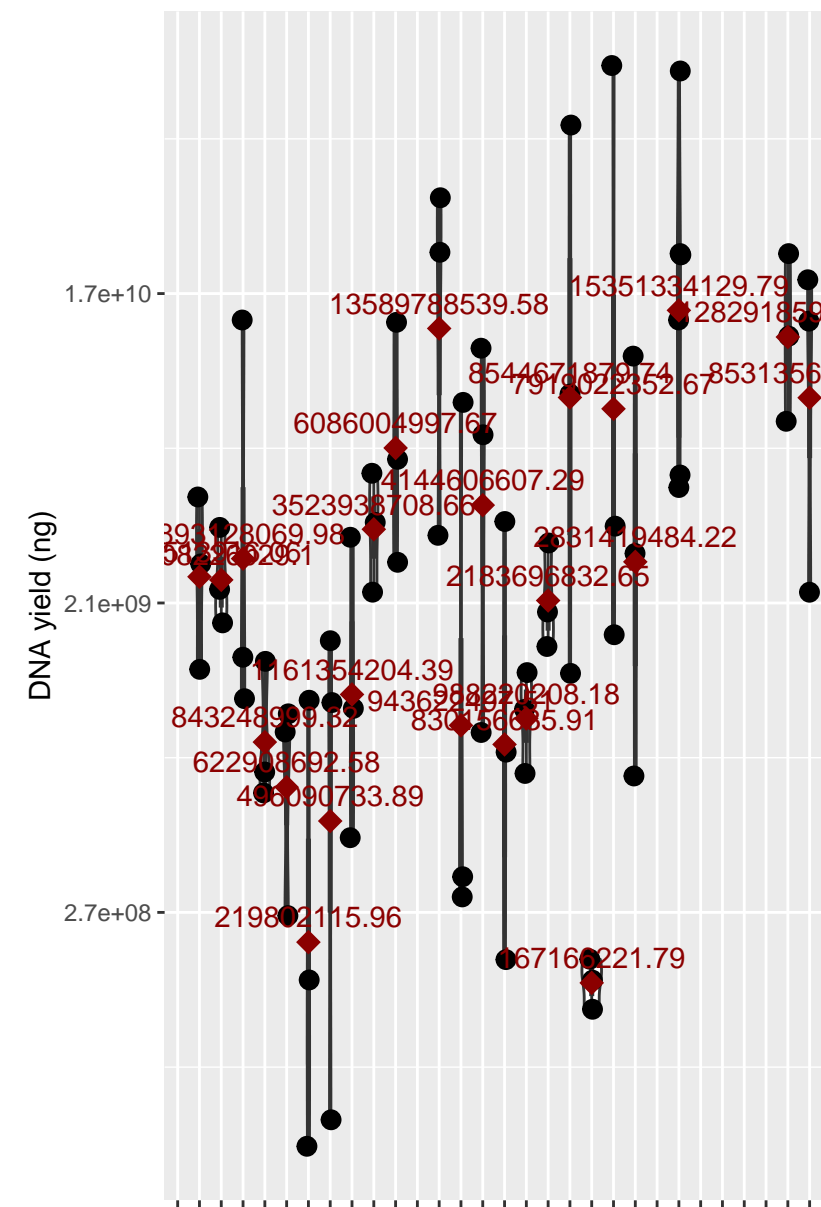


Concentration



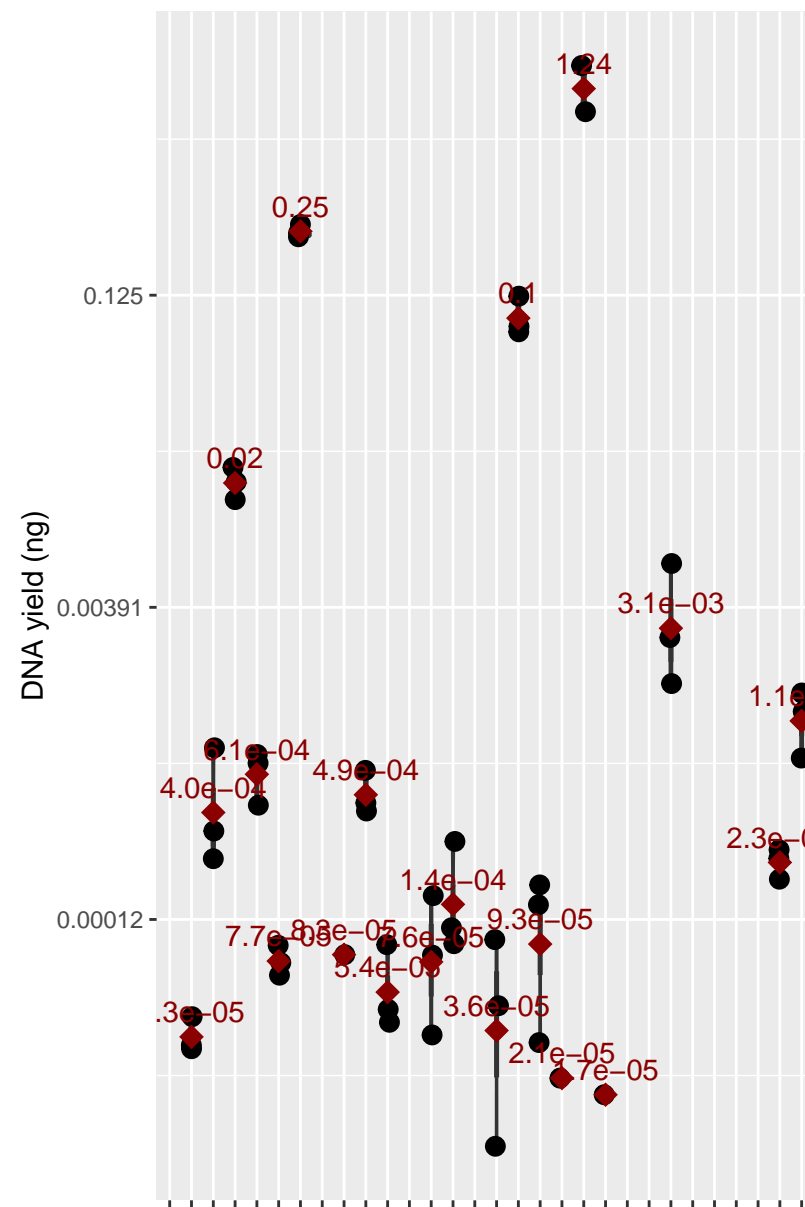
DNA yield

IPC



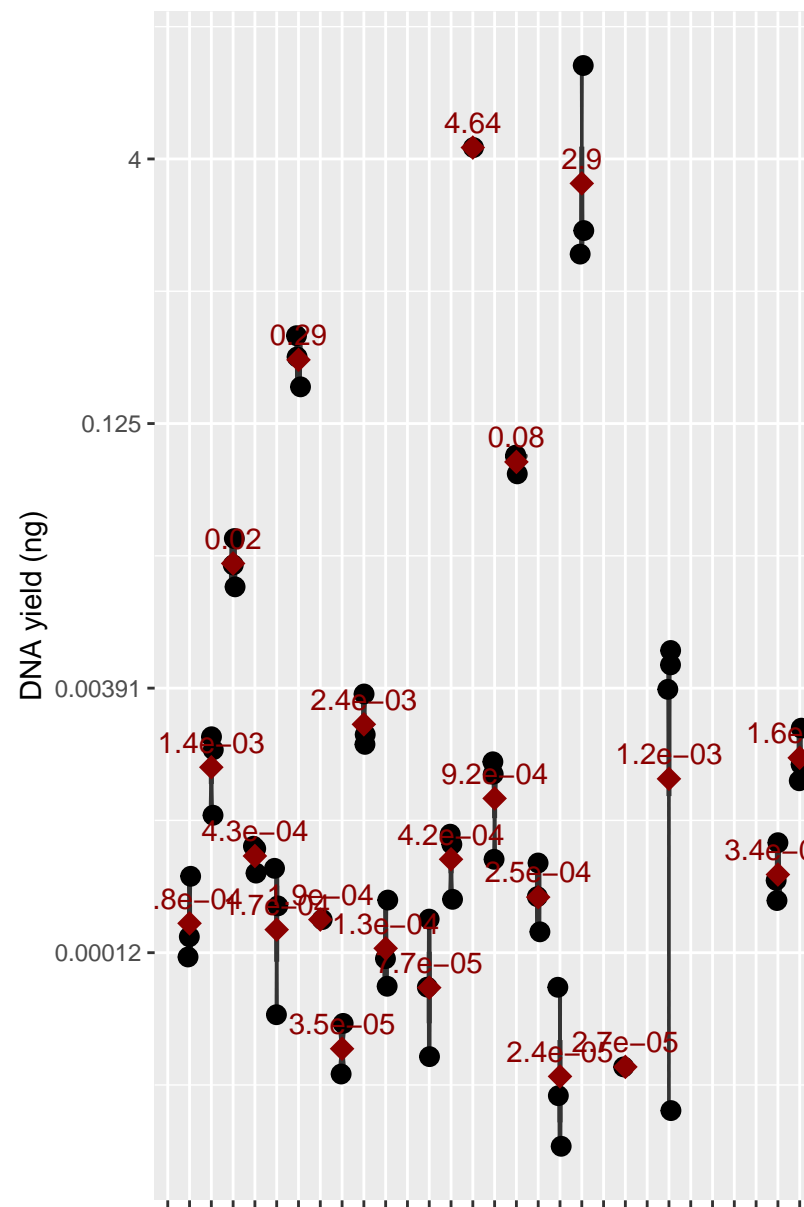
sample_id

Large



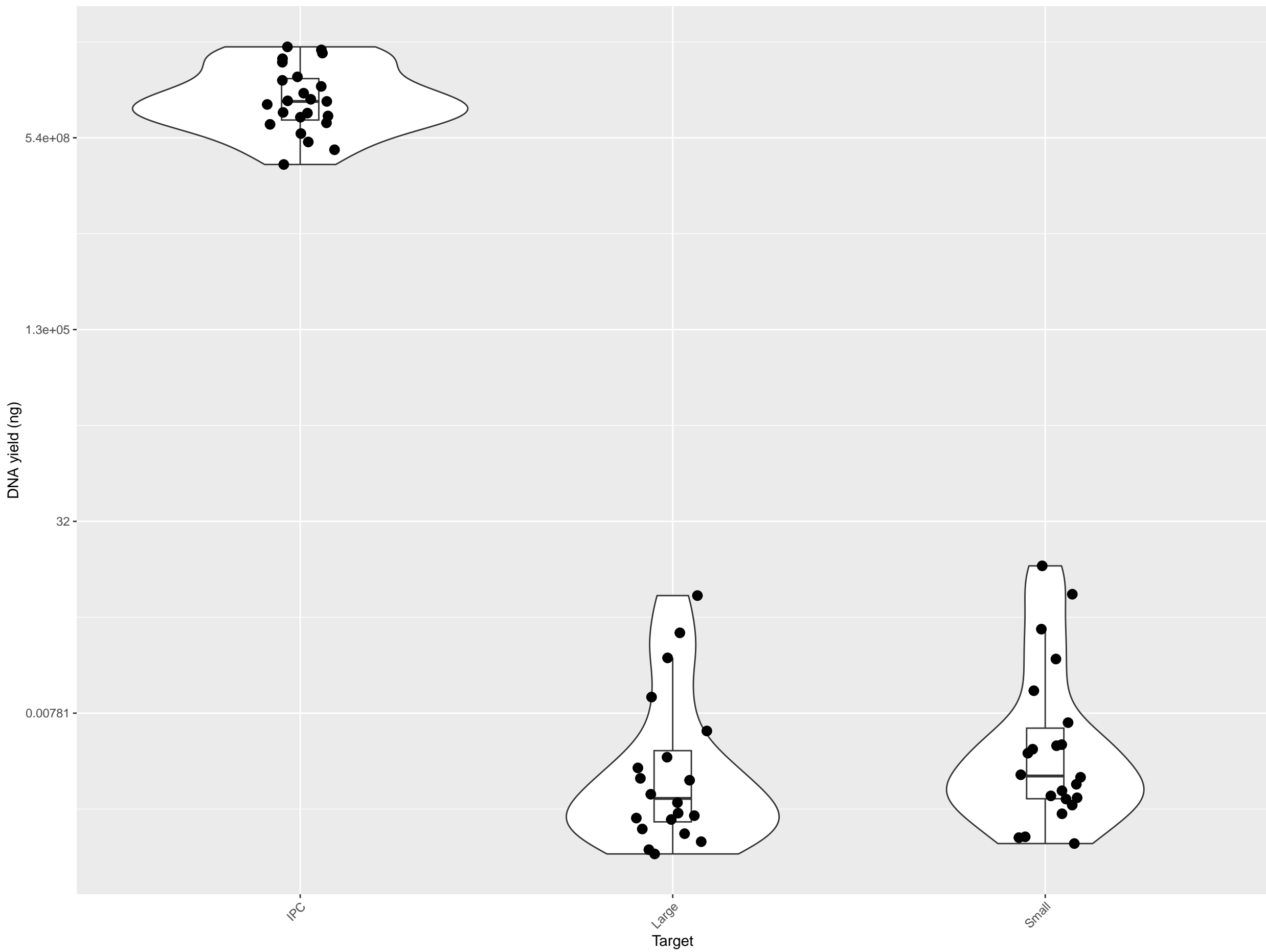
sample_id

Small



sample_id

DNA yield

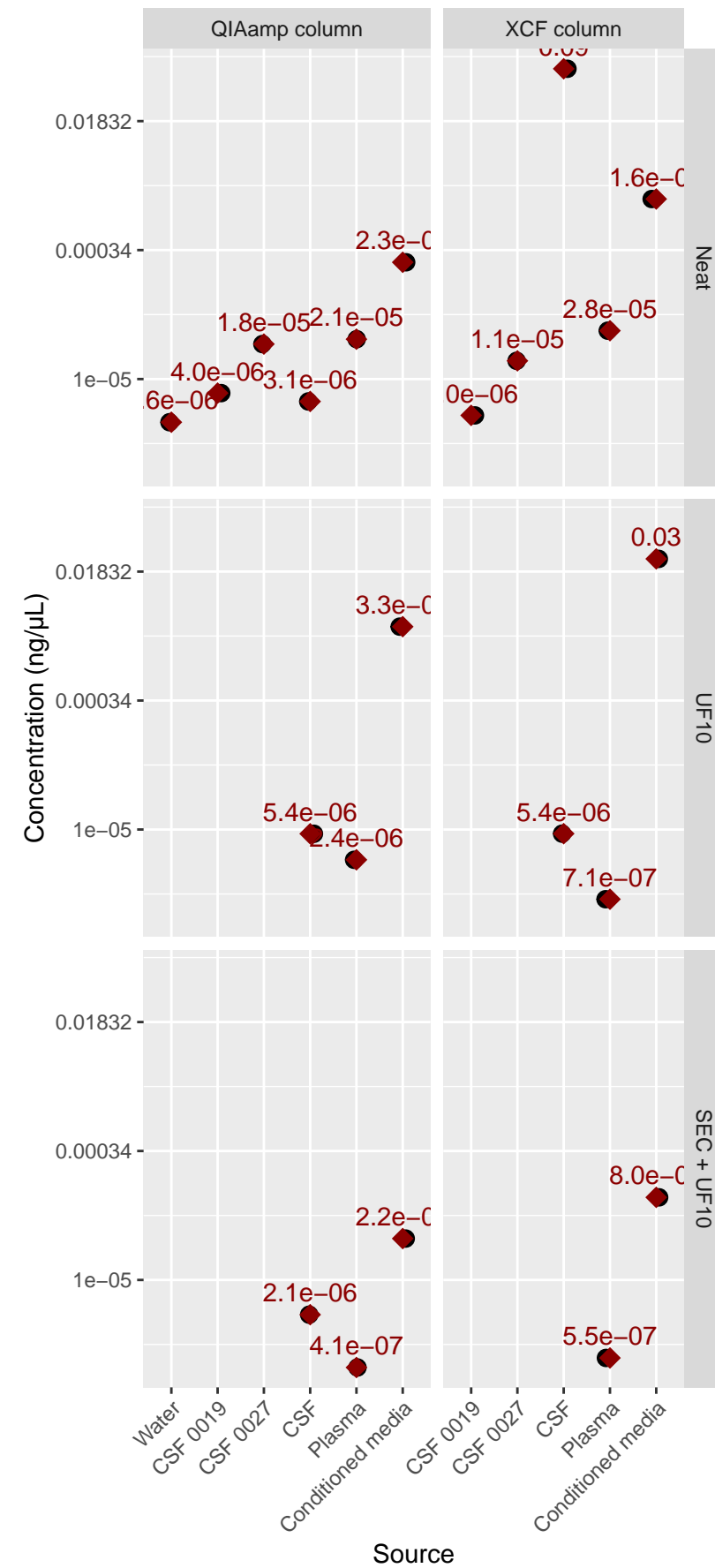
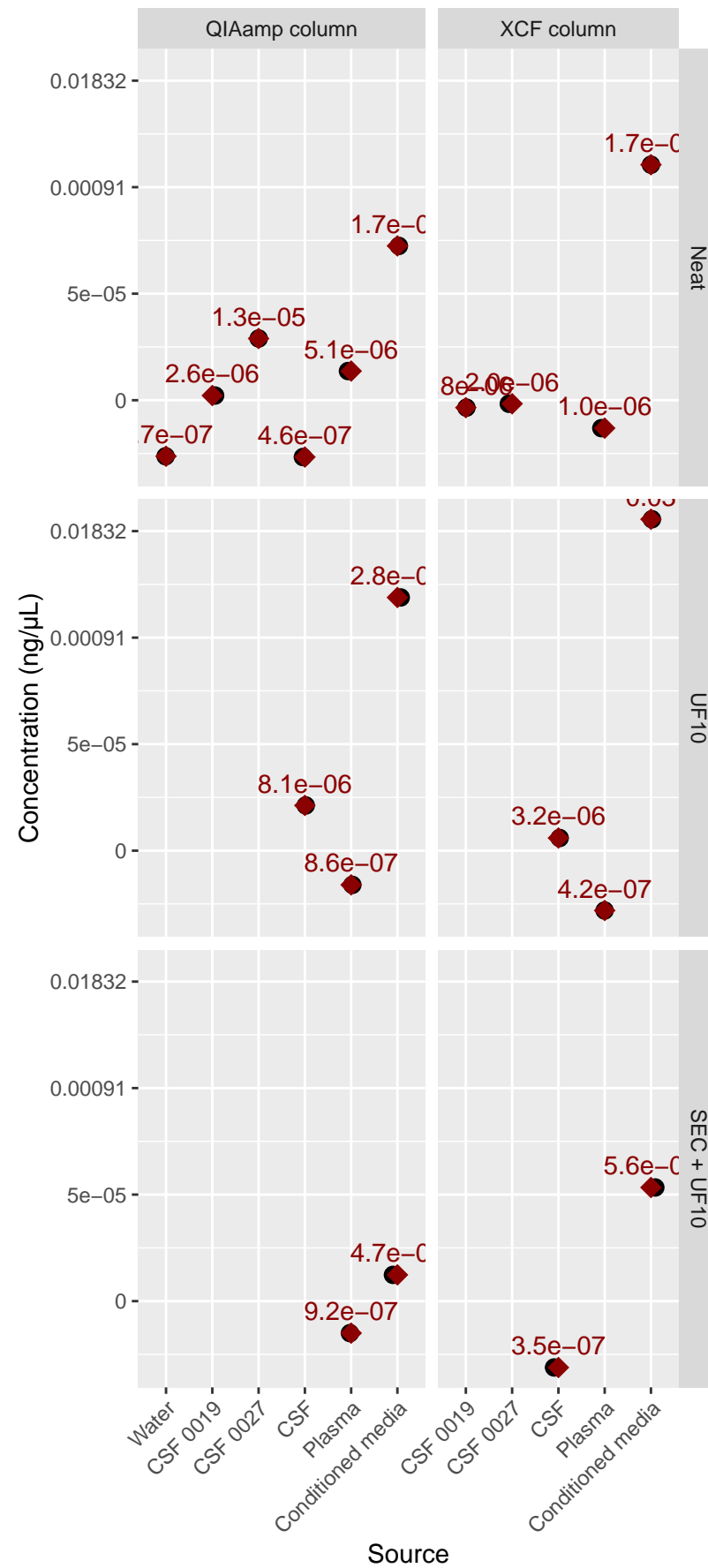
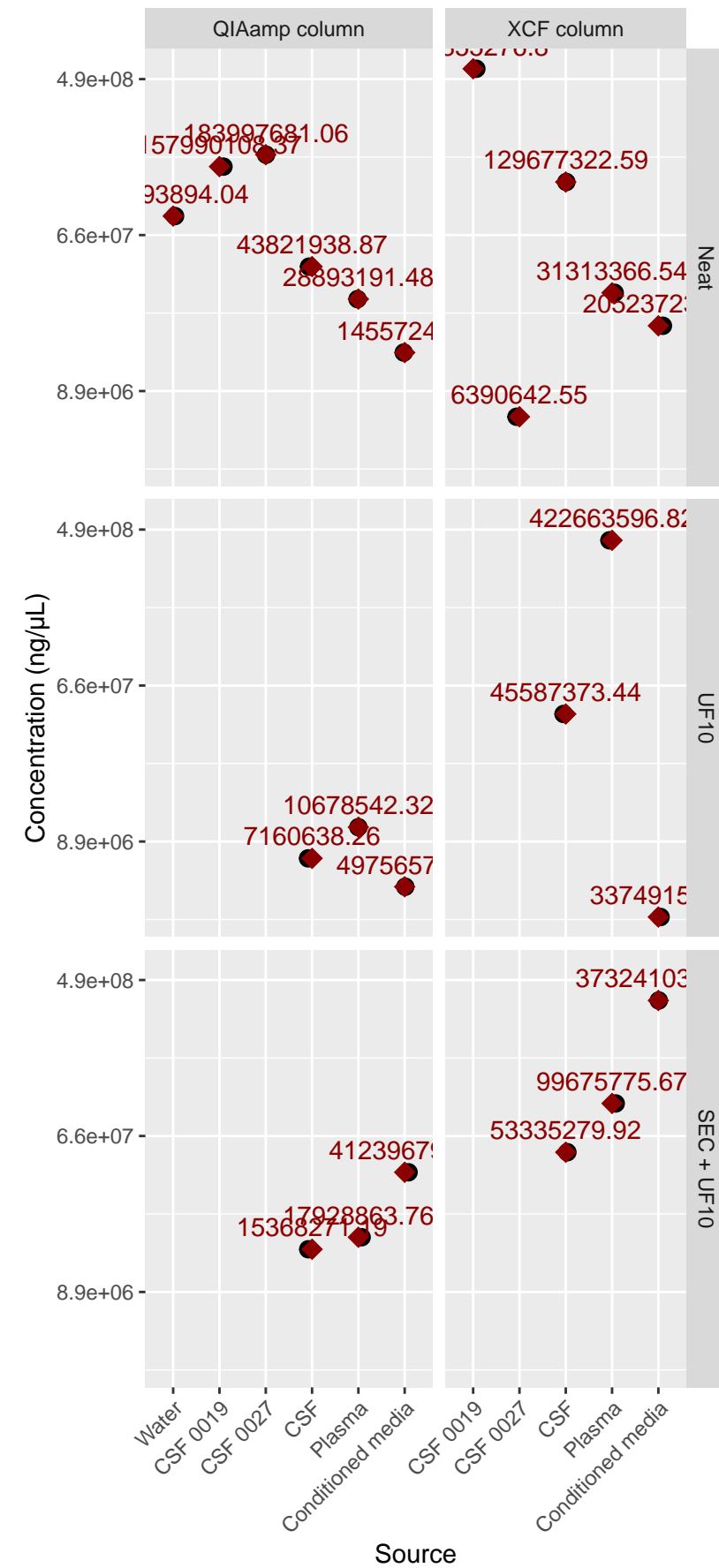


Concentration (ng/μL)

IPC

Large

Small



DNA yield (ng)

IPC

Large

Small

