

SUPPLEMENTARY FIGURE 1. Calibration range, limit of detection and R^2 values from a linear regression analysis of the peak area for the standards ($n = 4$). All conditions similar to figure 2.

Standard	Calibration range (μM)	Calibration equation	R^2	Limit of detection (nM)
5-HTP	0.01 – 1	$y = 1.093 \times 10^{-6} x$	0.9981	16
5-HT	0.02 – 10	$y = 8.435 \times 10^{-7} x$	0.9998	43
Tryptophan	0.1 – 10	$y = 2.6 \times 10^{-8} x$	0.9817	538
5-HIAA	0.01 – 2	$y = 7.07 \times 10^{-7} x$	0.9852	104

SUPPLEMENTARY FIGURE 2. Chromatographic responses of standards at detection limit concentrations. Responses are at concentrations lower than observed from extracellular or intracellular sampling, as shown in Figure 2. Where 20 nM 5-HTP, 20 nM 5-HT, 1 μ M tryptophan and 100 nM 5-HIAA standard responses are shown. All chromatographs are run at 100 μ L min^{-1} flow rate using 8 % sodium citrate buffer, 2 % methanol. Solutes: 1 – 5-HTP; 2 – serotonin; 3 – tryptophan and 4 – 5-HIAA.

