

The diagram illustrates a 12-column chromatogram with four sample types, each having three replicates. The columns are color-coded by retention time: yellow (1-2), light green (3-4), green (5), teal (6), light blue (7-8), dark blue (9), purple (10), and lavender (11-12). The samples and their corresponding peak patterns are as follows:

- Tide Pool 1 (S1):** Shows a peak at column 11 (lavender) in the first replicate. The other two replicates show no peaks.
- Tide Pool 2 (S2):** Shows peaks at columns 10 (purple) and 11 (lavender) in the first replicate. The other two replicates show no peaks.
- Nearshore (N):** Shows peaks at columns 10 (purple) and 11 (lavender) in the first replicate. The other two replicates show no peaks.
- Field Blank:** Shows a peak at column 11 (lavender) in the first replicate. The other two replicates show no peaks.