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PCA plot showing bacterial community composition (PC1: 48.35%, PC2: 18.02%) over time. The plot displays data points for various time points (Day 1, Day 2, 1 week, 2 week, 4 week, 6 week, 8 week, 12 week, 16 week) and their corresponding confidence intervals (shaded areas). The x-axis is PC1 (48.35%) and the y-axis is PC2 (18.02%). The legend indicates the time points: Day 1 (red), Day 2 (orange), 1 week (yellow), 2 week (green), 4 week (light green), 6 week (cyan), 8 week (blue), 12 week (purple), and 16 week (pink). The plot shows a clear separation between the early time points (Day 1, Day 2) and the later time points (1 week to 16 week), indicating a significant change in bacterial community composition over time. Specific bacterial taxa are labeled: *Host_AFDW.ng.cm2*, *Chr2*, *Chr1*, *Sym_AFDW.ng.cm2*, and *Ratio_AFDW.ng.cm2*.