**A** Total vitamin B12 and HoloTC vs time

**B** Total vitamin B12 vs HoloTC

**Graph A**
- **X-axis**: Time (Day #)
- **Y-axis**: Total B12 (pmol/L)
- **Legend**:
  - B12 Dose (µg/day)
  - Reference A B12 Low
  - Reference B B12 Low
  - Lab B12 RI Low
  - Total B12
  - Lab HoloTC RI Low
  - HoloTC

**Graph B**
- **X-axis**: HoloTC (pmol/L)
- **Y-axis**: Total B12 (pmol/L)
- **Equation**: y = 1.75x + 144.22
- **R²**: 0.49

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**Conclusion**

The graphs illustrate the relationship between total vitamin B12 and HoloTC over time and across different conditions. The data shows a significant correlation between the two variables, with a linear regression line indicating a strong association. The R² value of 0.49 suggests that 49% of the variability in total vitamin B12 can be explained by the variability in HoloTC, highlighting the importance of both components in vitamin B12 metabolism and absorption.
**A** MMA and HoloTC vs time

- Graph shows MMA and HoloTC levels over time.
- MMA and HoloTC levels fluctuate significantly over the days indicated.
- B12 dose in µg/day is also shown.
- Equation: $y = -0.00x + 0.62$
- $R^2 = 0.27$

**B** MMA vs HoloTC

- Graph plots MMA vs HoloTC levels.
- A linear regression line is indicated with the equation $y = -0.00x + 0.62$ and $R^2 = 0.27$.
- MMA and HoloTC levels are shown with crosses.
- RI ranges are shaded in purple and blue.
A) tHcy and HoloTC vs time

B) tHcy vs HoloTC

\[ y = -0.03x + 12.67 \]

\[ R^2 = 0.20 \]
A Total vitamin B12 and MMA vs time

B Total vitamin B12 vs MMA

\[ y = -252.64x + 354.68 \]

\[ R^2 = 0.44 \]