

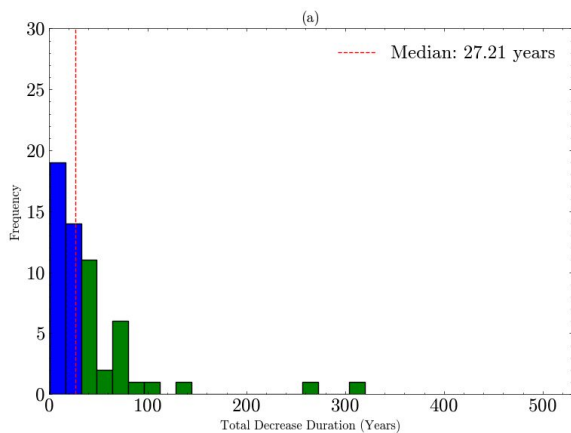
Linear Regression plots

Until 08/19

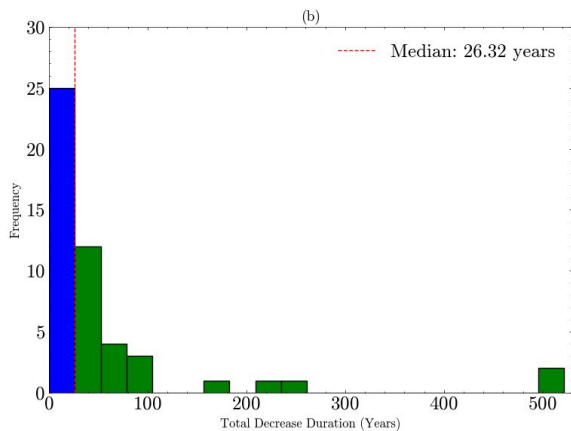
Student: Vu Anh Le

PI: Haruko Murakami Wainwright

Histogram of time-to-MCL in both analytes Sr-90 and I-129

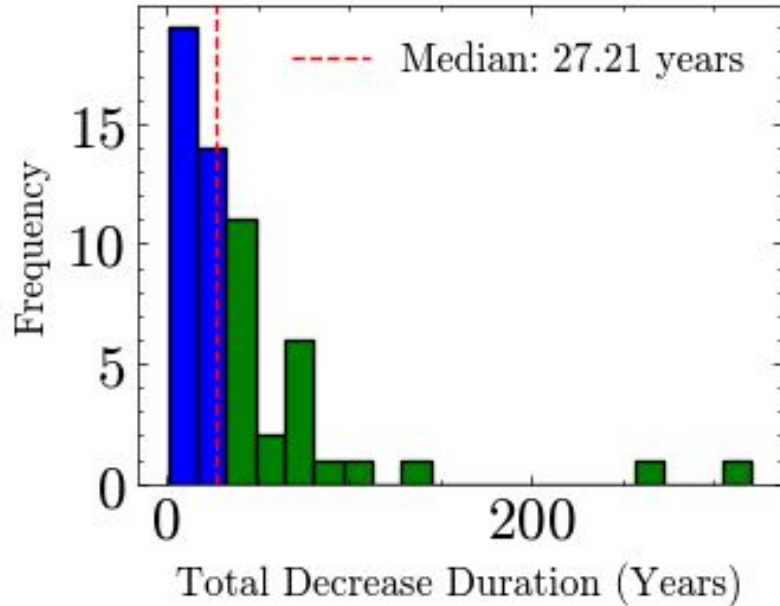


(a) - Sr-90;
(b) - I-129



Histogram of time-to-MCL in Sr-90

Histogram of Total Decrease Duration (Years)



- Overall Total Decrease Duration: 869385 days
- Trend counts:
 - Decrease 65
 - Increase 9
- Average time-to-MCL: 15252.36 days
- Total number of wells in the original dataset for analyte 'STRONTIUM-90': 149
- Number of decreasing wells with time-to-MCL less than 10 years: 12
- Percentage of decreasing wells with time-to-MCL less than 10 years: 18.46%

Histogram of time-to-MCL in Sr-90 (Continued)

For the whole analyte:

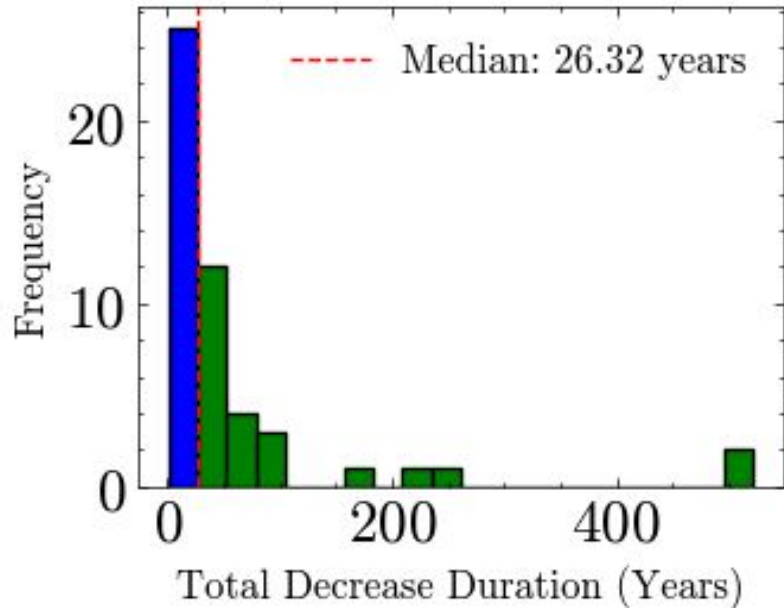
- Decreasing: 65
- Stable: 0
- Increasing: 9

Median Decrease Duration: 9938.0 days

- 25th Percentile Decrease Duration: nan days
- 75th Percentile Decrease Duration: nan days
- Skewness of Decrease Duration Distribution: 3.4207488787140354
- Kurtosis of Decrease Duration Distribution: 13.162900463981707

Histogram of time-to-MCL in I-129

Histogram of Total Decrease Duration (Years)



- Overall Total Decrease Duration: 1117162.0 days
- Trend counts:
 - Decrease 59
 - Increase 29
- Average time-to-MCL: 22799.224489795917 days
- Total number of wells in the original dataset for analyte 'IODINE-129': 150
- Number of decreasing wells with time-to-MCL less than 10 years: 7
- Percentage of decreasing wells with time-to-MCL less than 10 years: 11.86%

Histogram of time-to-MCL in I-129 (Continued)

For the whole analyte:

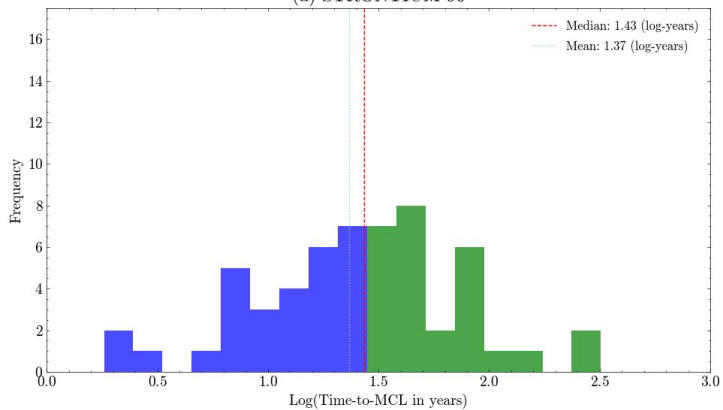
- Decreasing: 59
- Stable: 0
- Increasing: 29

Median Decrease Duration: 9612.0 days

- 25th Percentile Decrease Duration: nan days
- 75th Percentile Decrease Duration: nan days
- Skewness of Decrease Duration Distribution: 3.380728907142712
- Kurtosis of Decrease Duration Distribution: 11.277736659661626

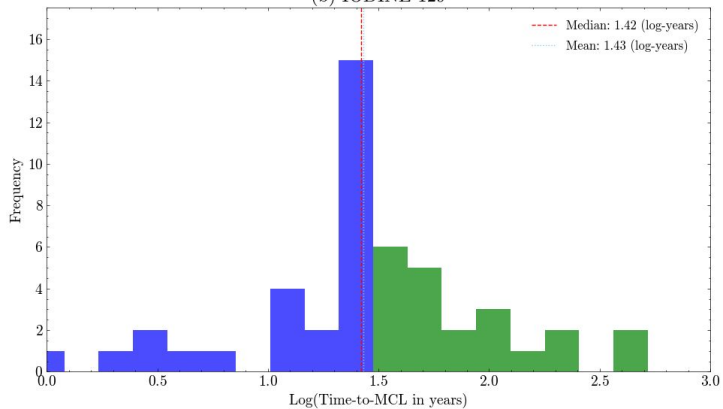
Histogram of log-transformed time-to-MCL in both analytes Sr-90 and I-129

(a) STRONTIUM-90

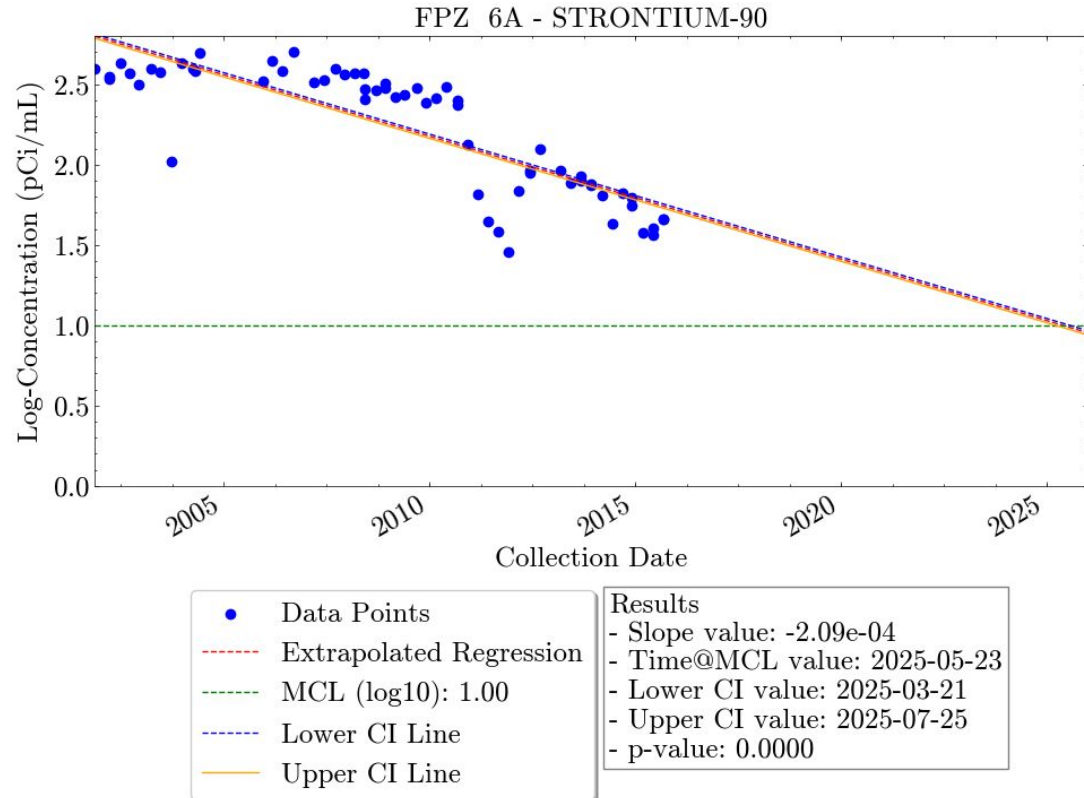


(a) - Sr-90;
(b) - I-129

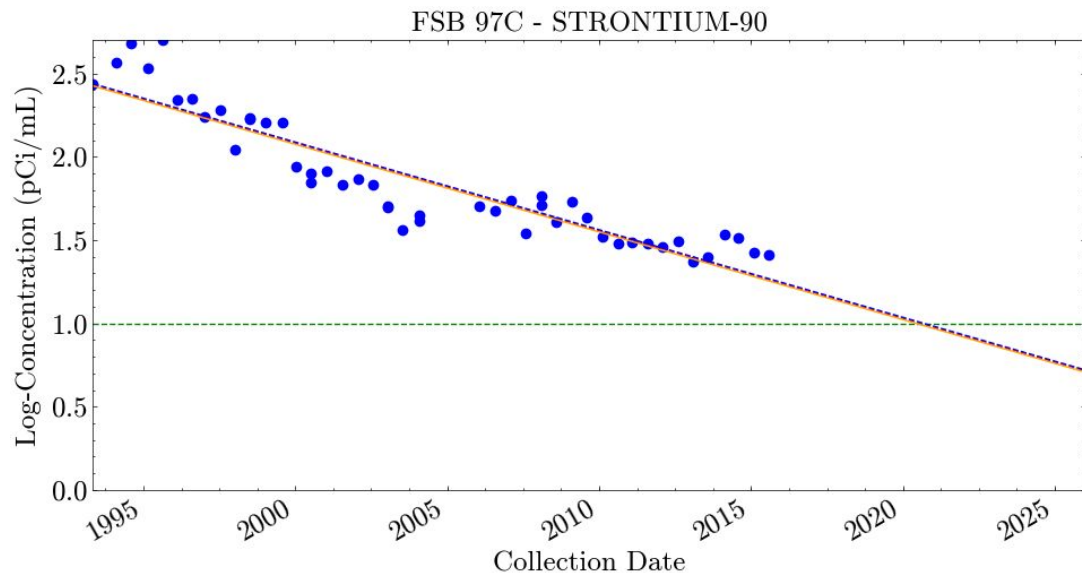
(b) IODINE-129



Sample linear regression plots for Sr-90



Sample linear regression plots for Sr-90

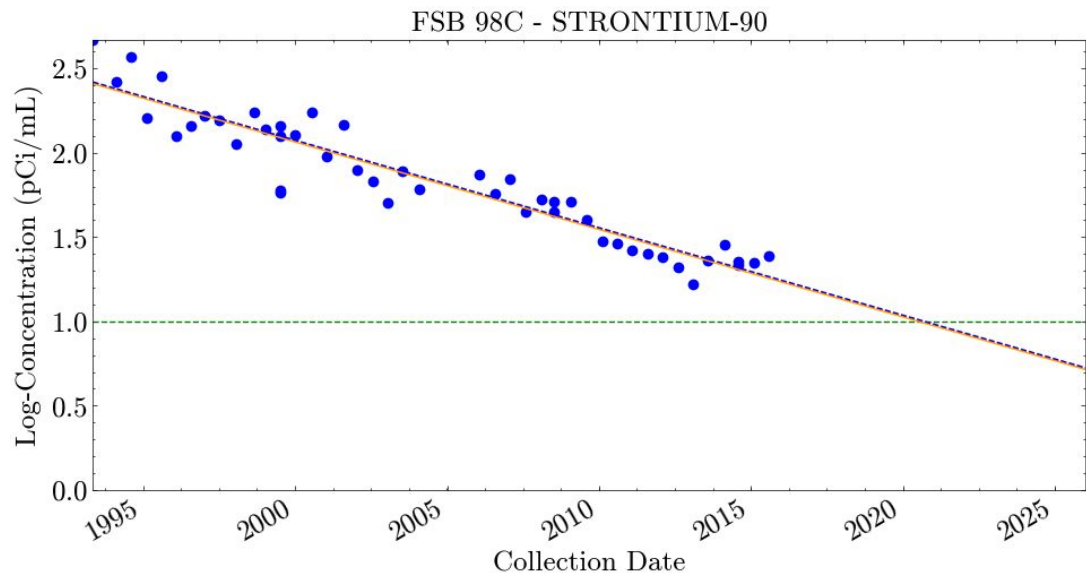


- Data Points
- - - Extrapolated Regression
- - - MCL (log10): 1.00
- - - Lower CI Line
- Upper CI Line

Results

- Slope value: -1.44×10^{-4}
- Time@MCL value: 2020-07-21
- Lower CI value: 2020-06-04
- Upper CI value: 2020-09-06
- p-value: 0.0000

Sample linear regression plots for Sr-90

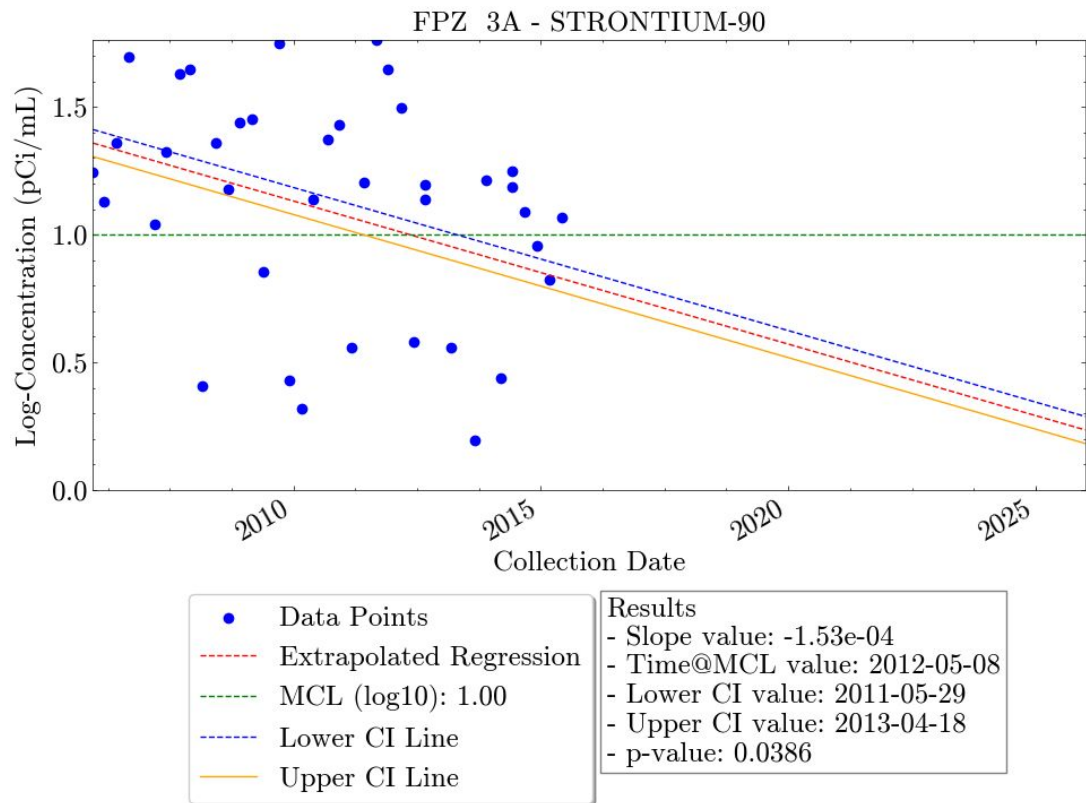


- Data Points
- - - Extrapolated Regression
- - - MCL (log10): 1.00
- - - Lower CI Line
- - - Upper CI Line

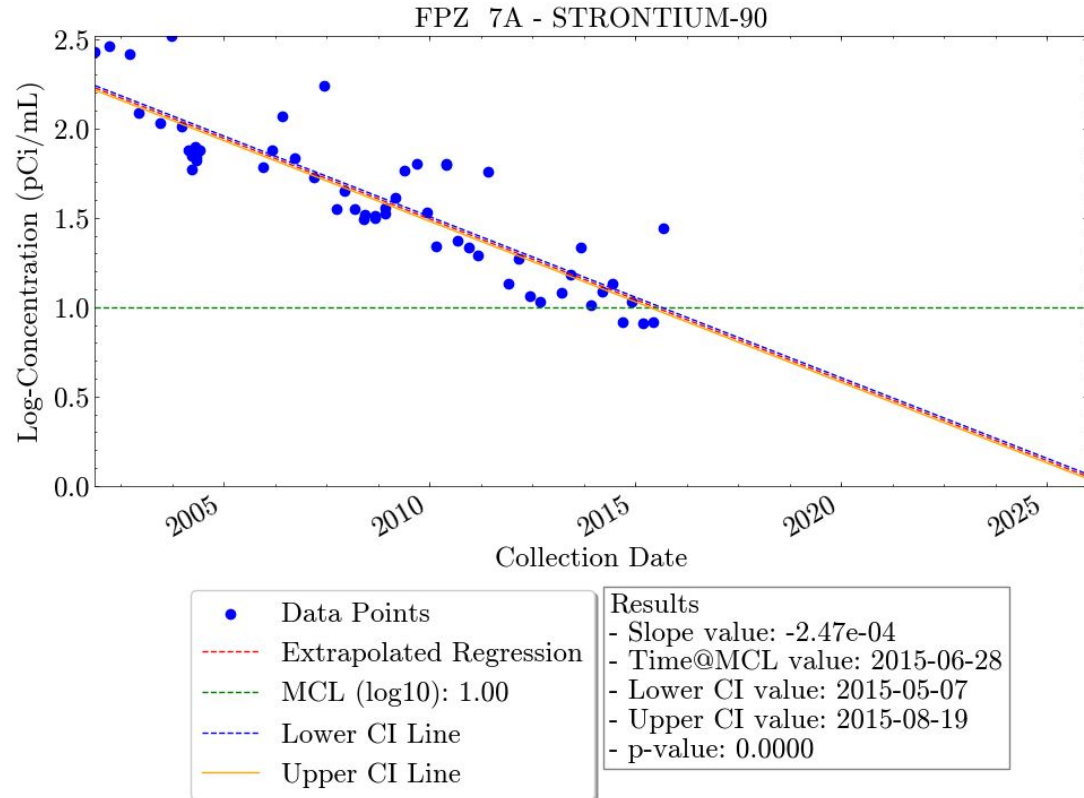
Results

- Slope value: -1.42×10^{-4}
- Time@MCL value: 2020-08-09
- Lower CI value: 2020-07-01
- Upper CI value: 2020-09-17
- p-value: 0.0000

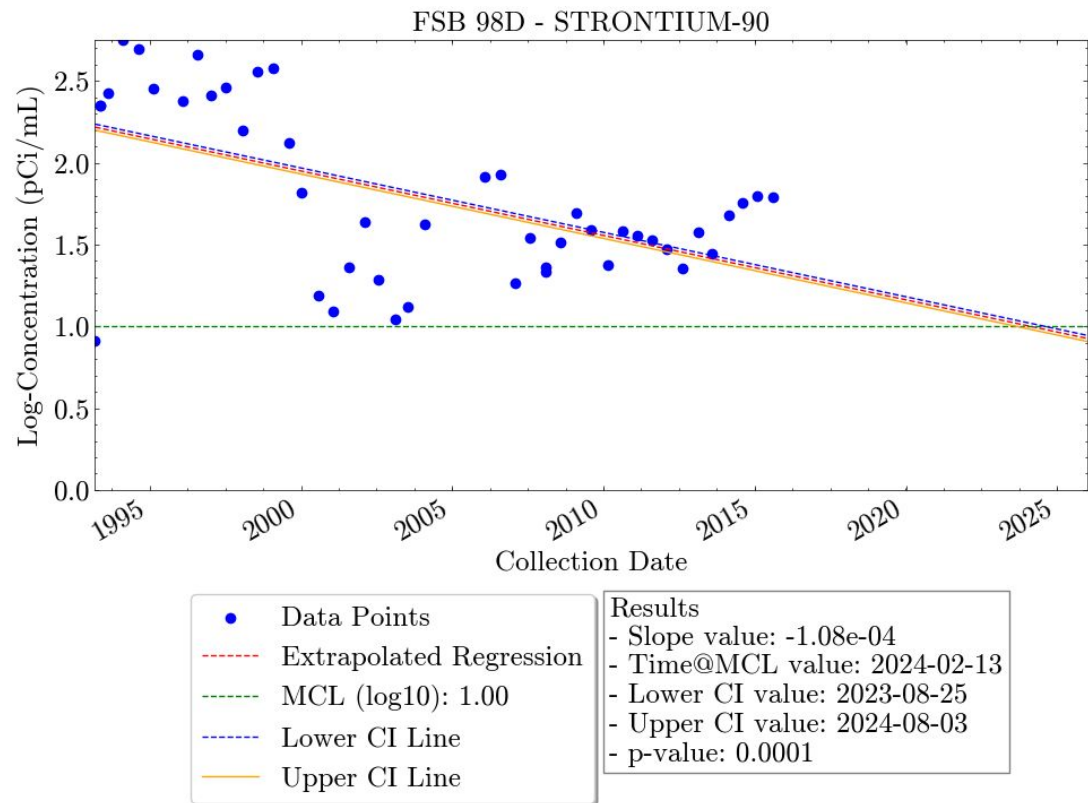
Sample linear regression plots for Sr-90



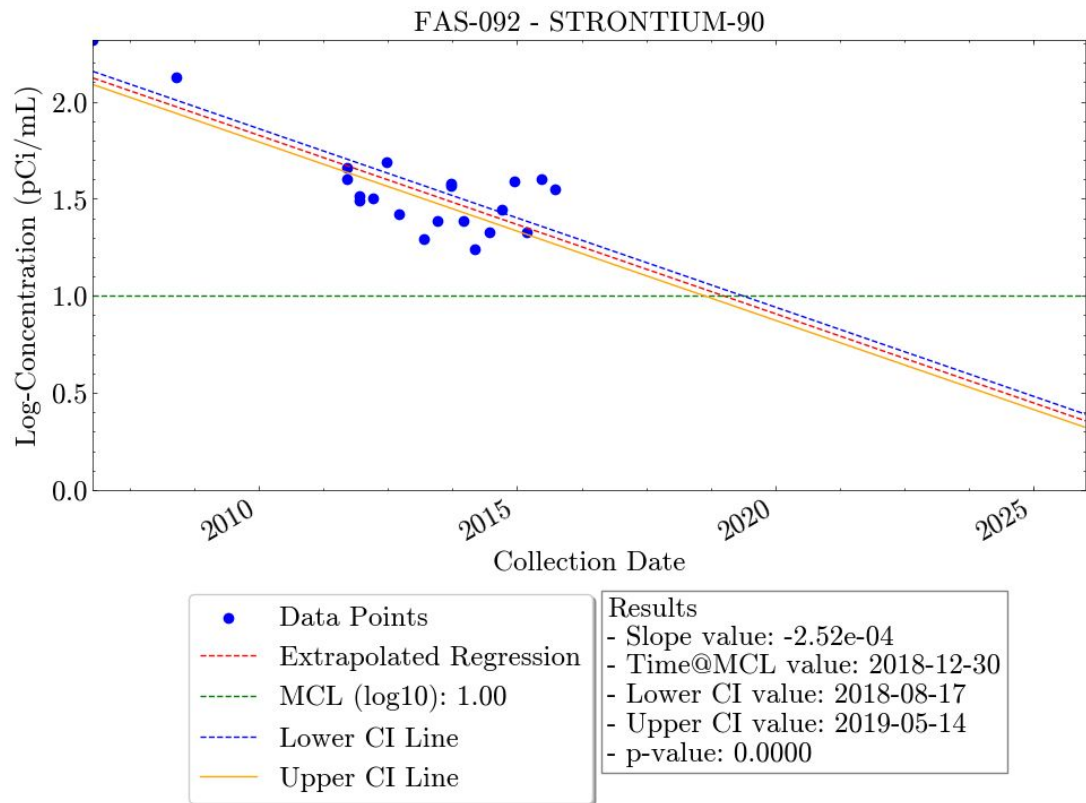
Sample linear regression plots for Sr-90



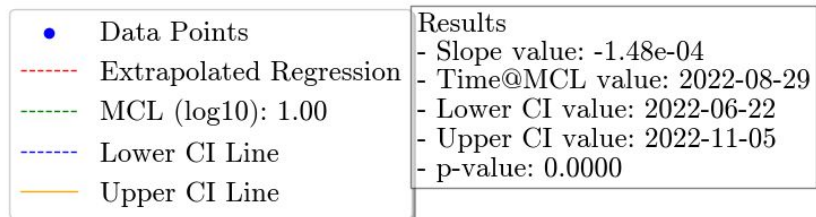
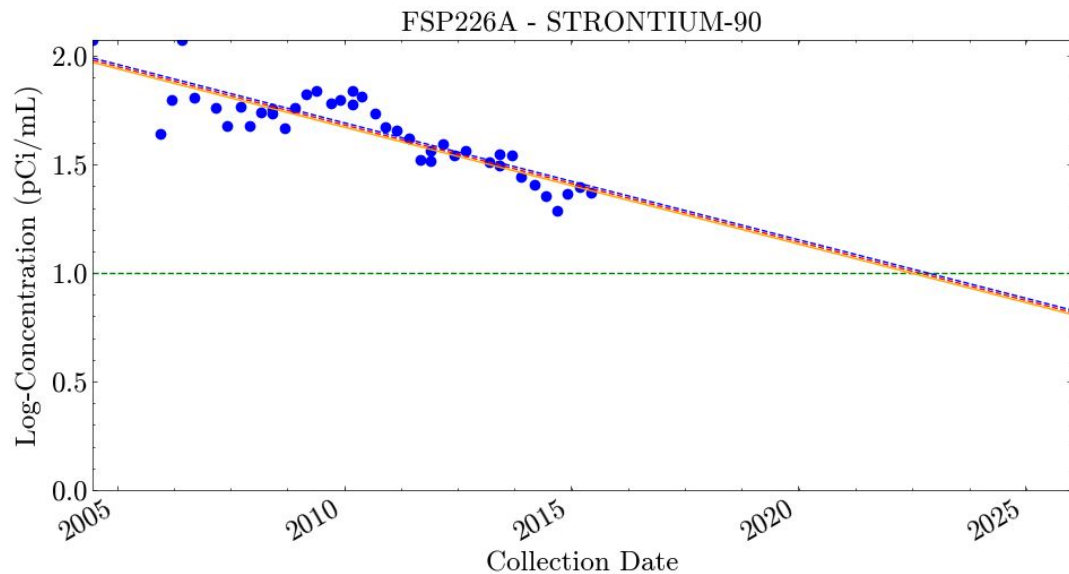
Sample linear regression plots for Sr-90



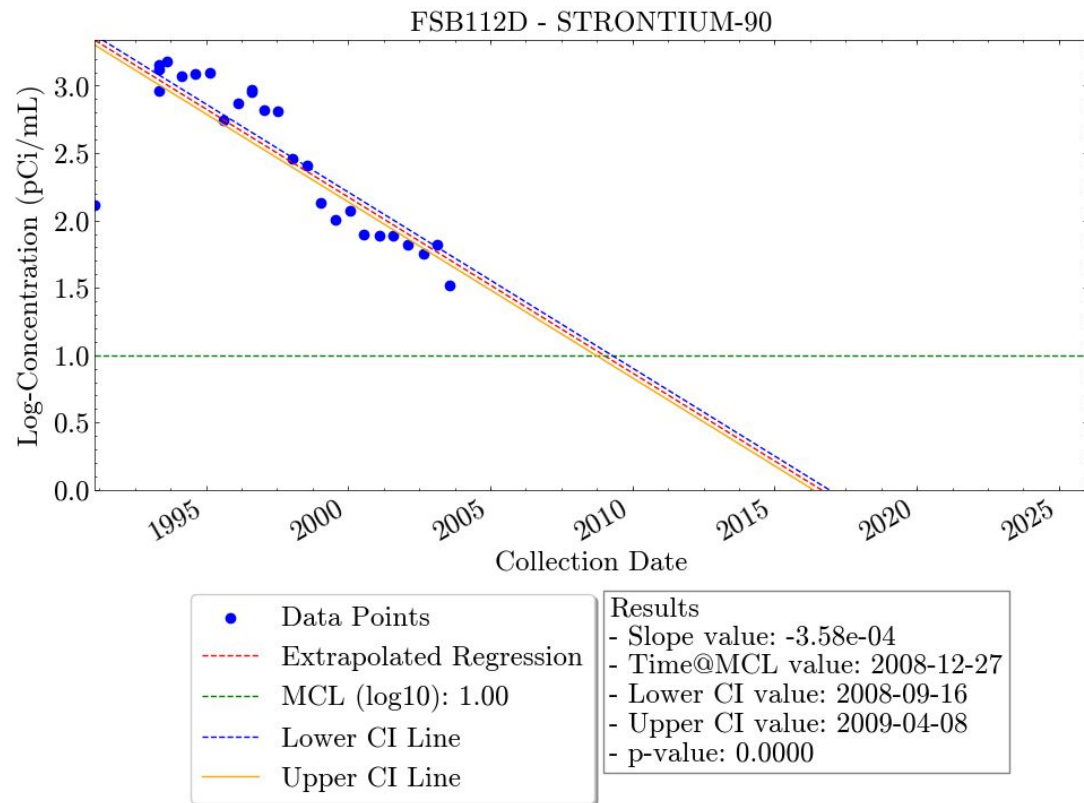
Sample linear regression plots for Sr-90



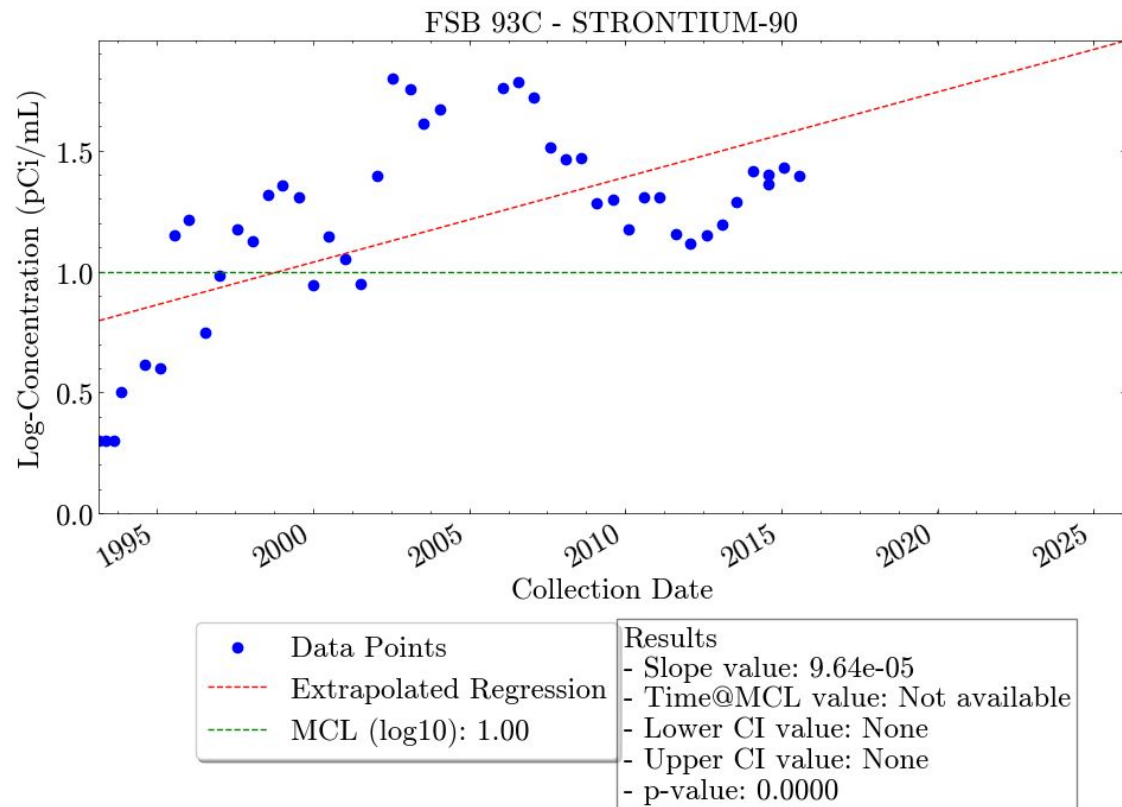
Sample linear regression plots for Sr-90



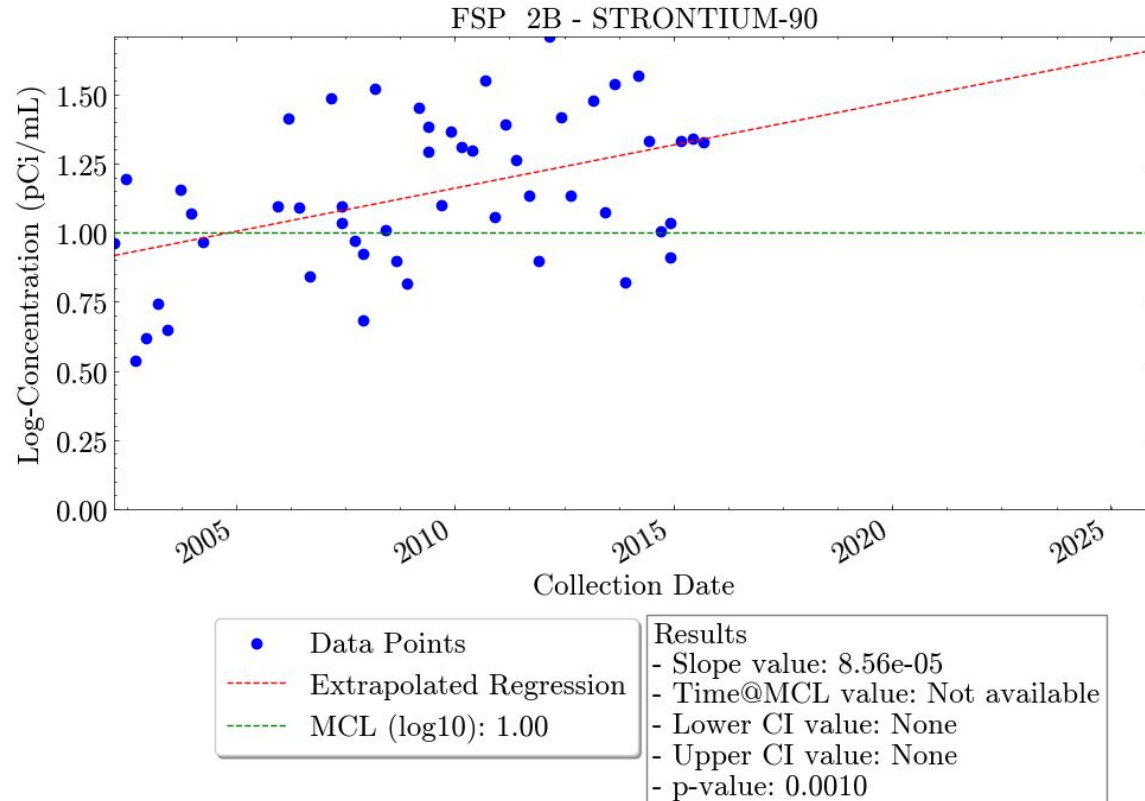
Sample linear regression plots for Sr-90



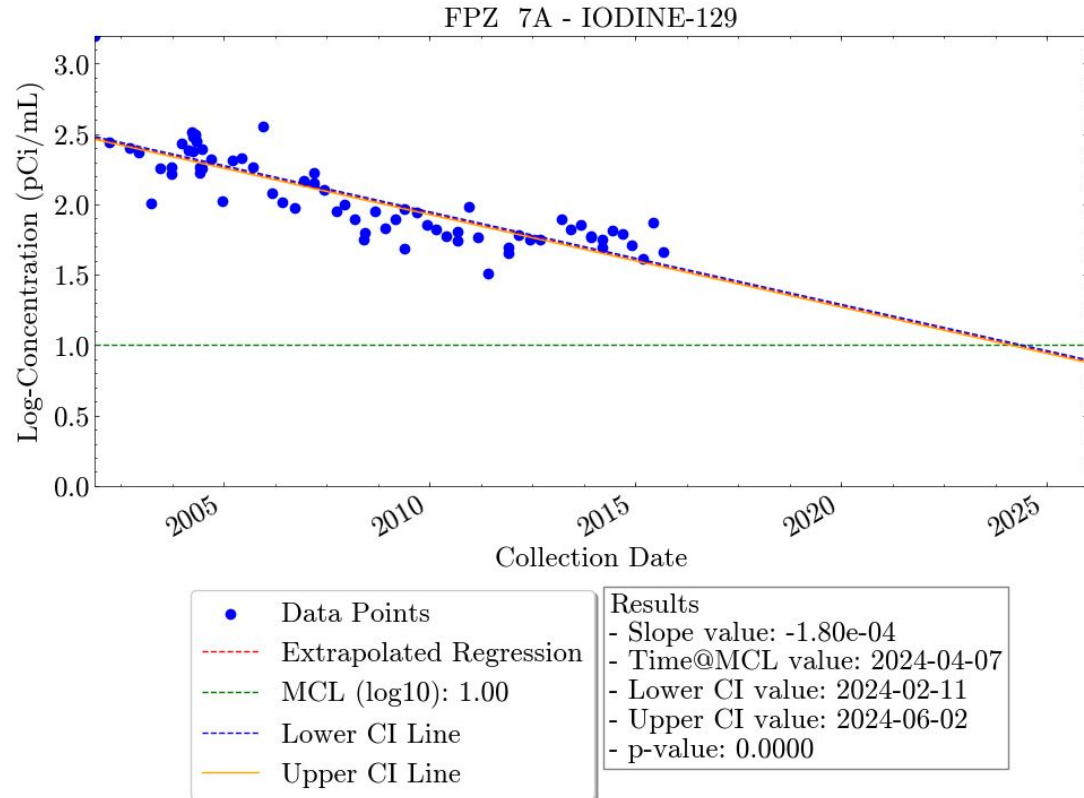
Sample linear regression plots for Sr-90



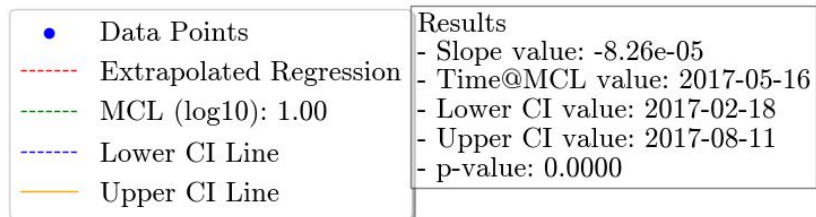
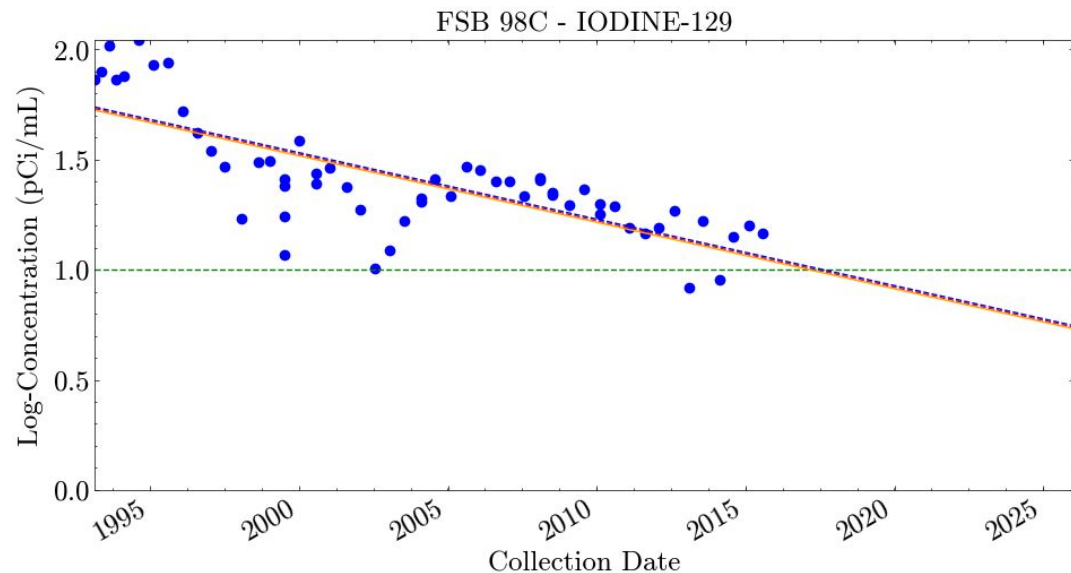
Sample linear regression plots for Sr-90



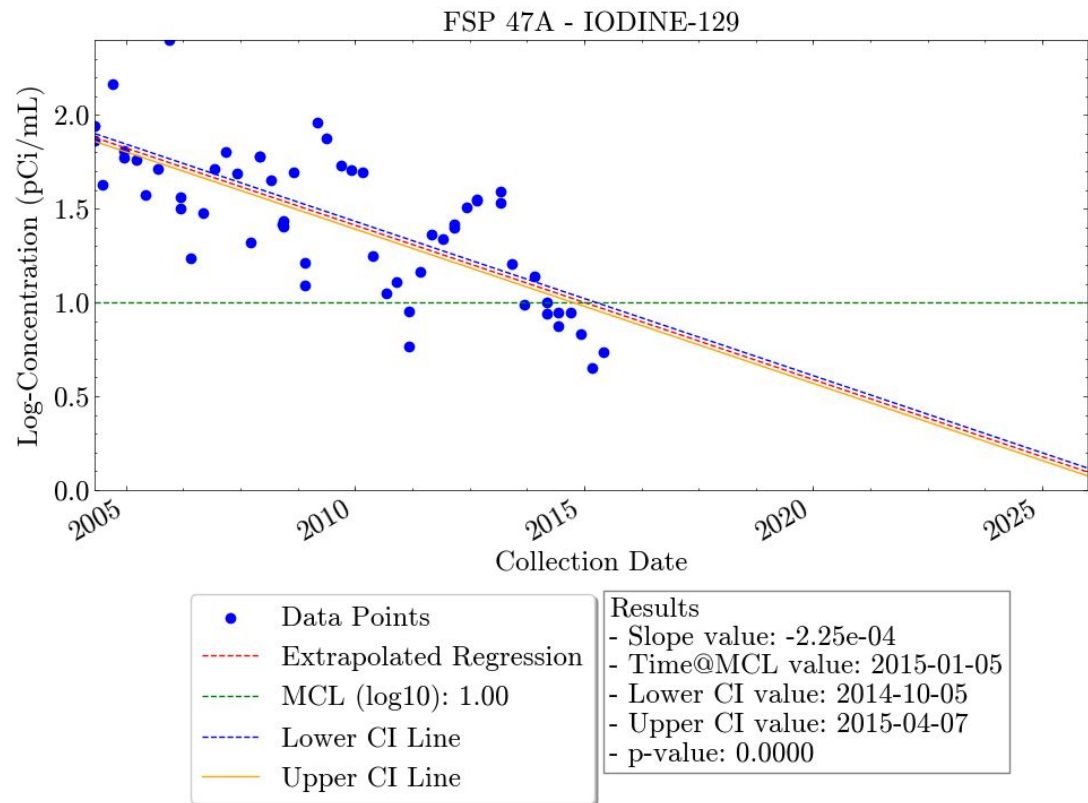
Sample linear regression plots for I-129



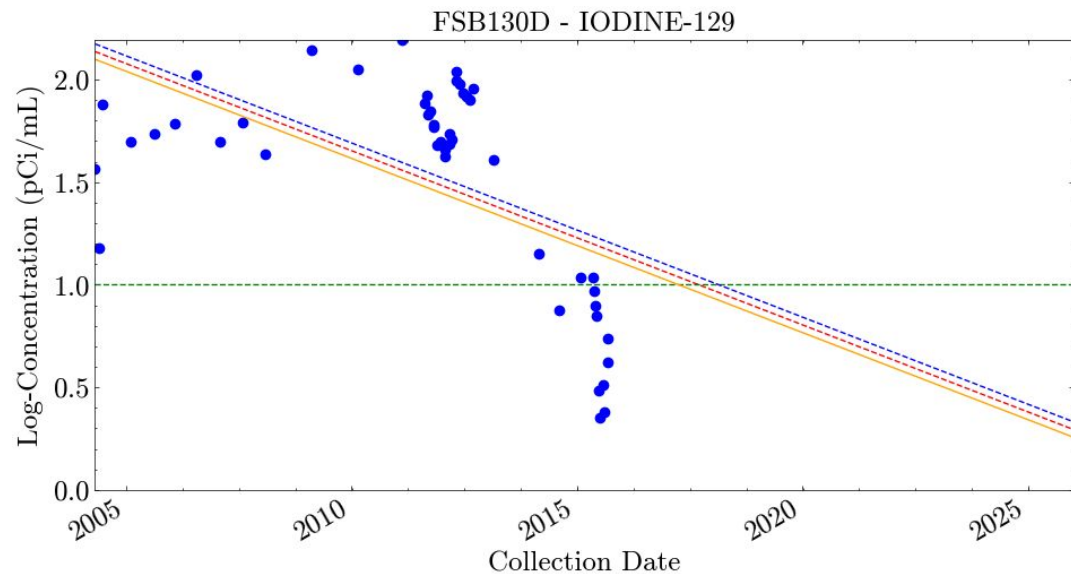
Sample linear regression plots for I-129



Sample linear regression plots for I-129



Sample linear regression plots for I-129

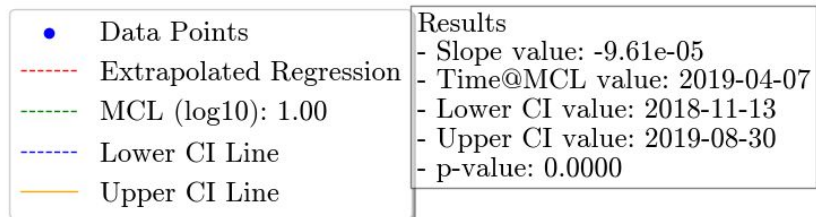
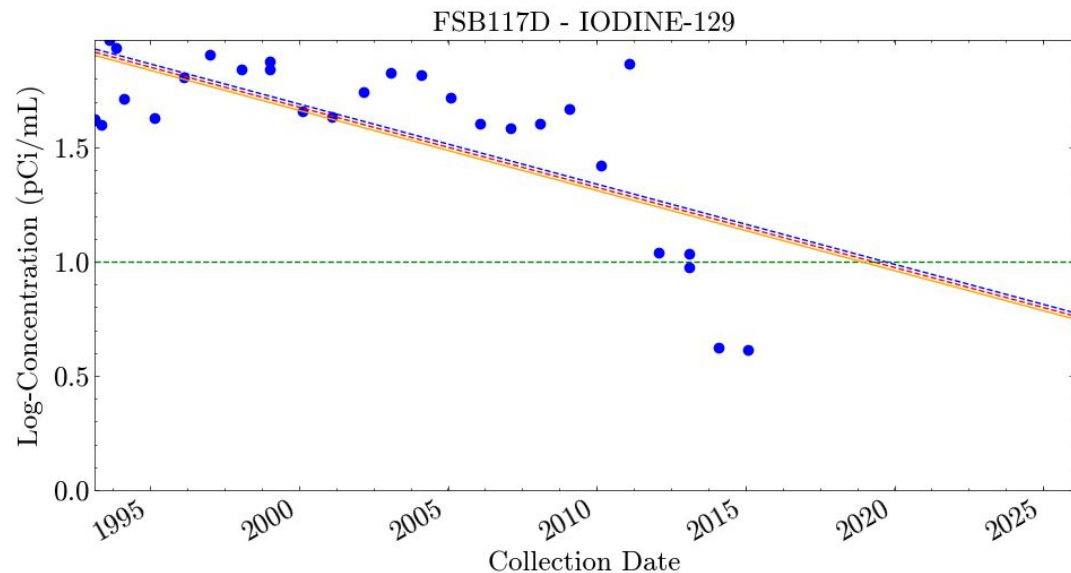


- Data Points
- Extrapolated Regression
- MCL (log10): 1.00
- Lower CI Line
- Upper CI Line

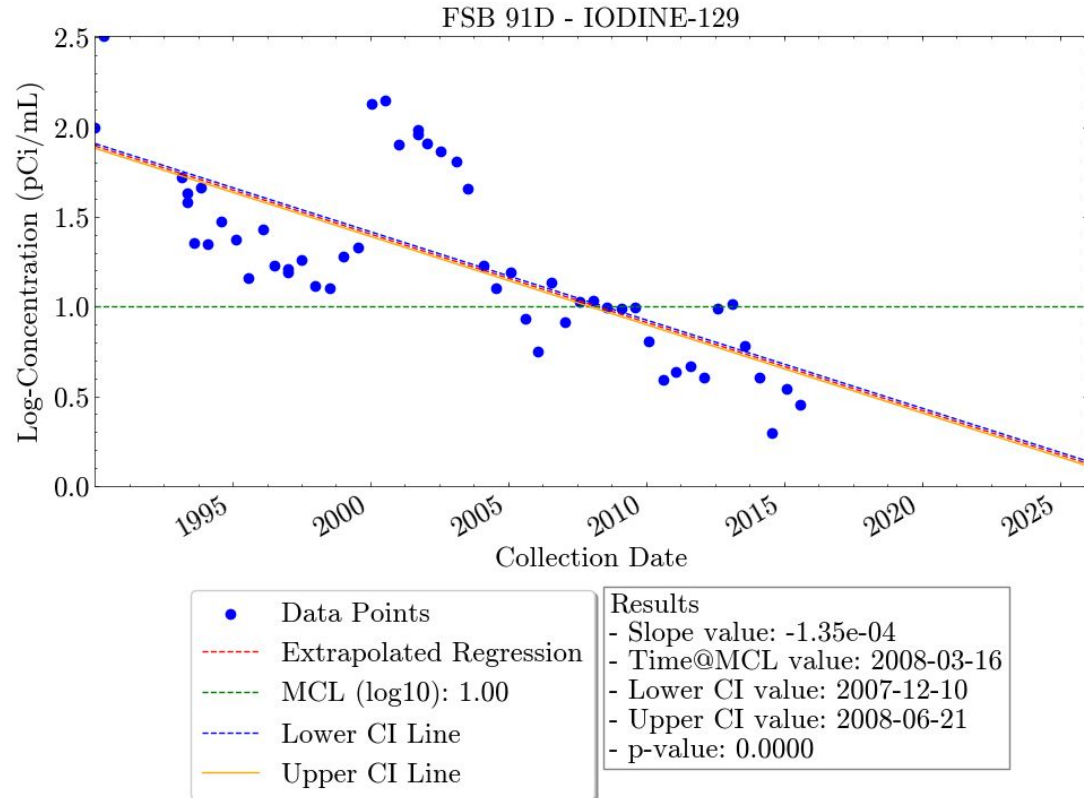
Results

- Slope value: -2.32×10^{-4}
- Time@MCL value: 2017-09-10
- Lower CI value: 2017-04-01
- Upper CI value: 2018-02-19
- p-value: 0.0000

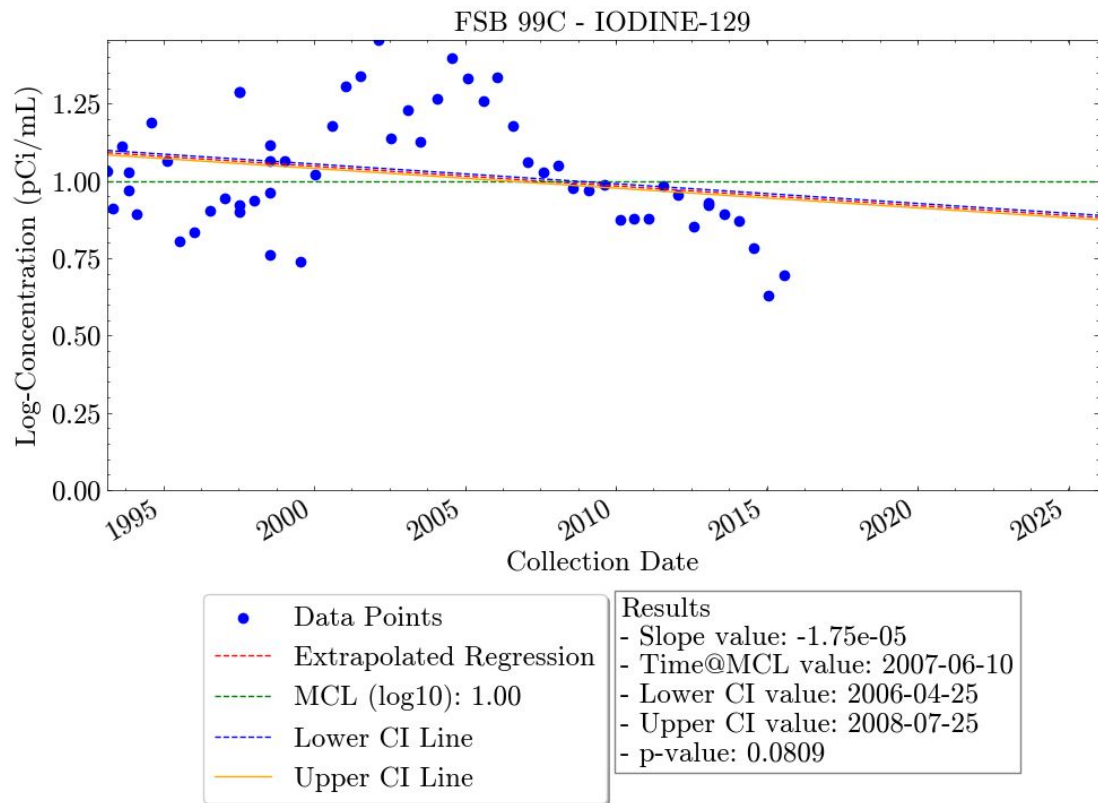
Sample linear regression plots for I-129



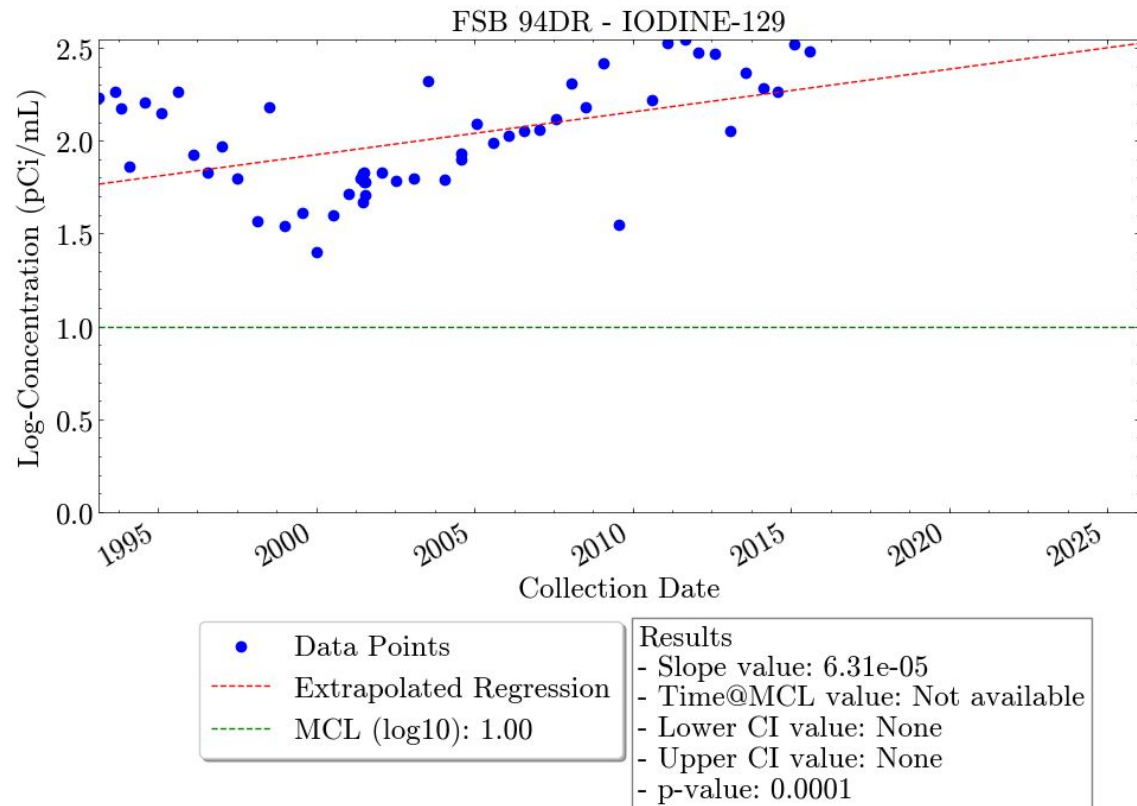
Sample linear regression plots for I-129



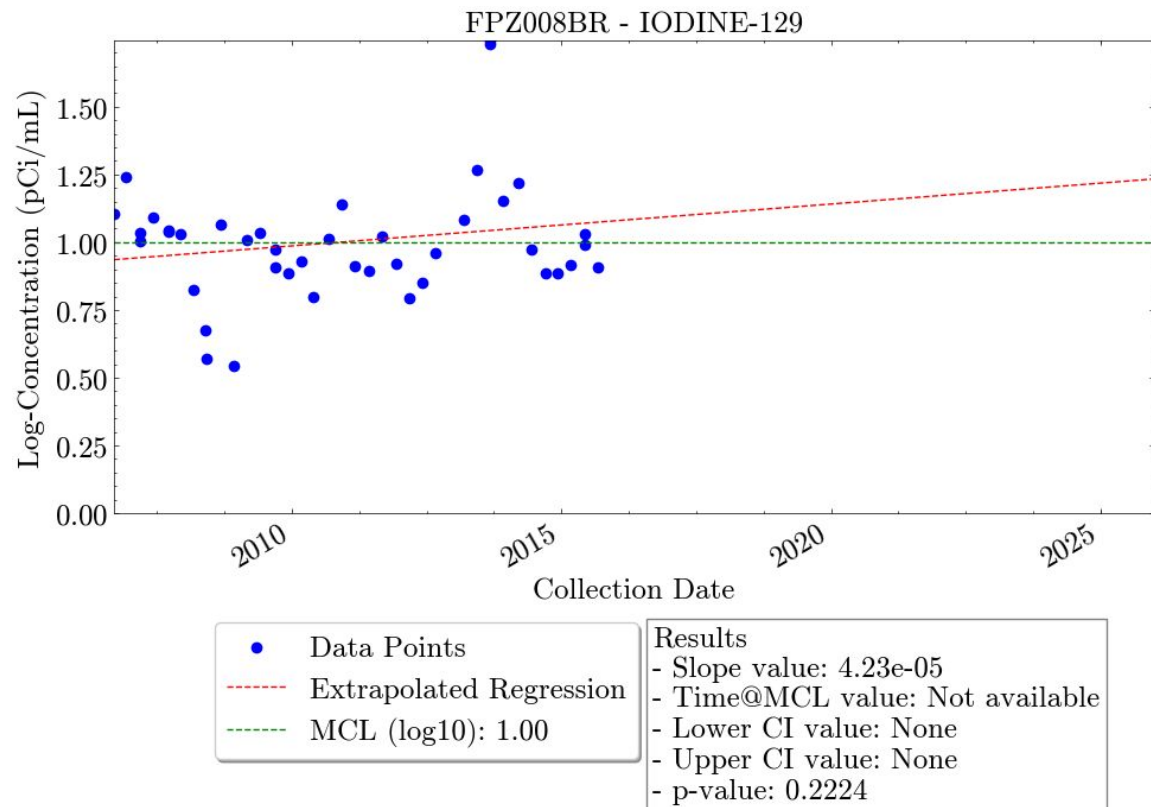
Sample linear regression plots for I-129



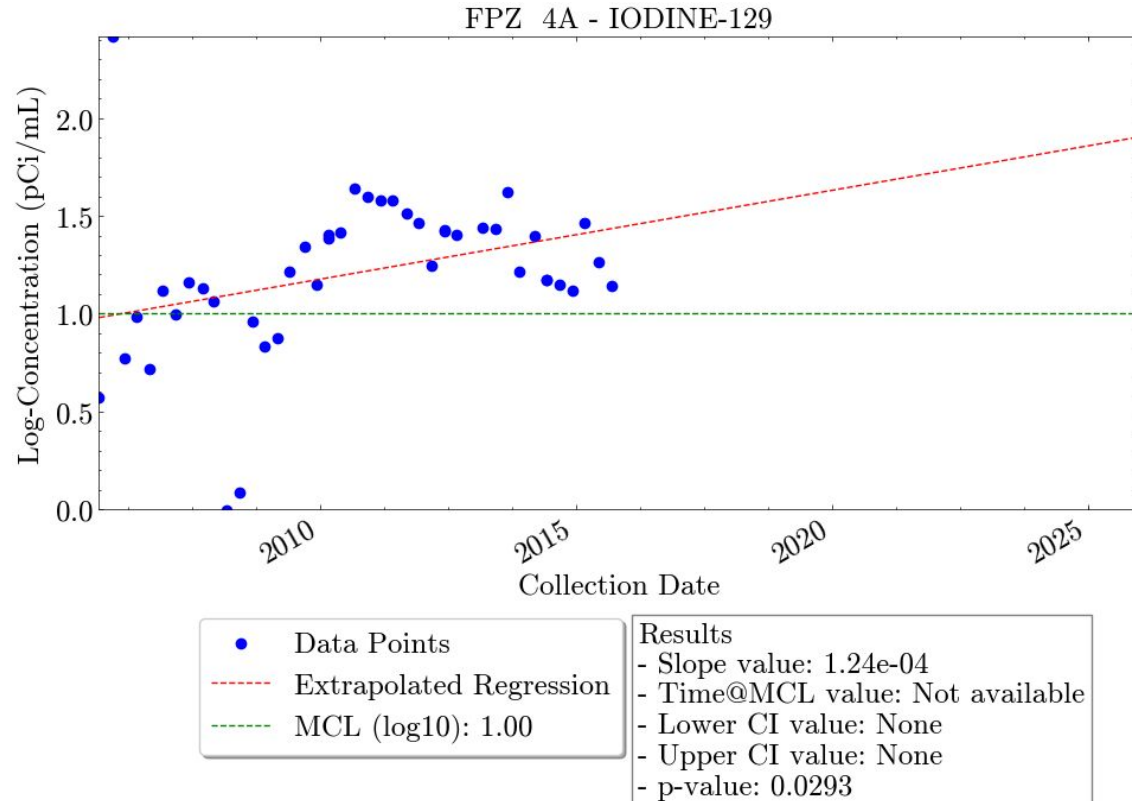
Sample linear regression plots for I-129



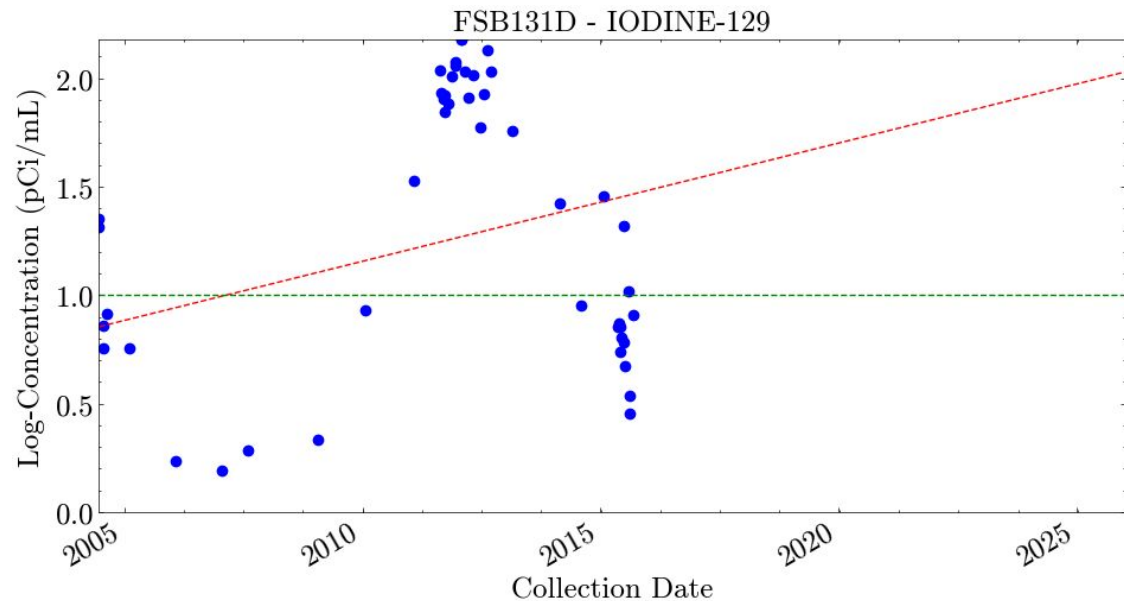
Sample linear regression plots for I-129



Sample linear regression plots for I-129



Sample linear regression plots for I-129



• Data Points

--- Extrapolated Regression

--- MCL (log10): 1.00

Results

- Slope value: 1.49e-04
- Time@MCL value: Not available
- Lower CI value: None
- Upper CI value: None
- p-value: 0.0436