Synoptic CB: Porewater Sulfide

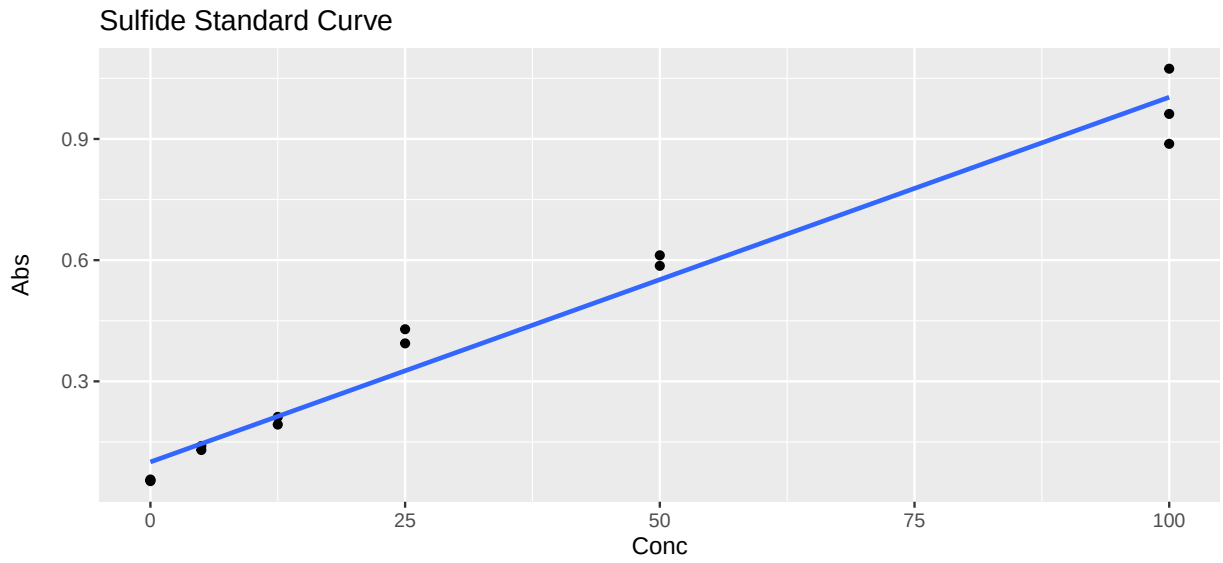
May 2025 Samples Plate 7

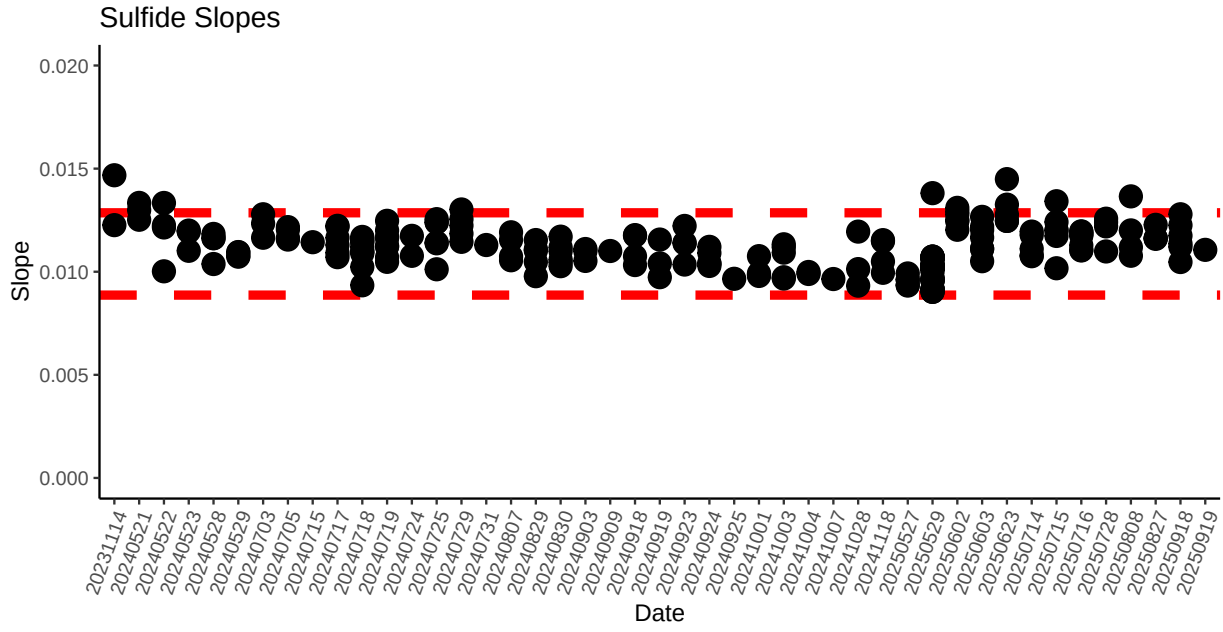
2025-10-24

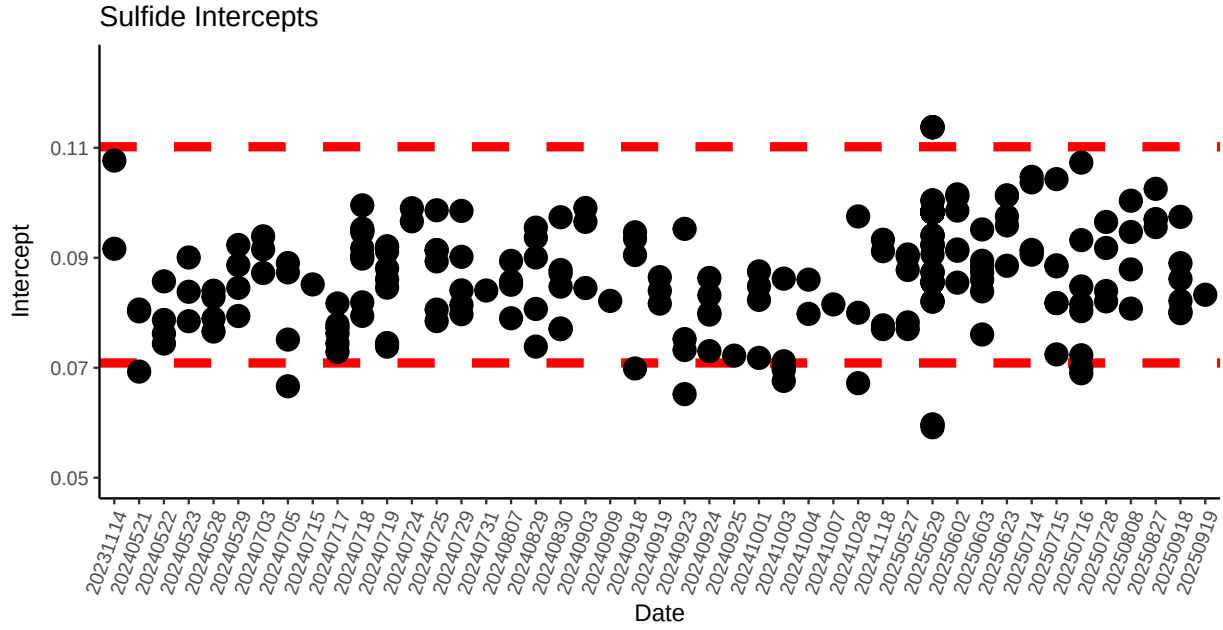
Run Information

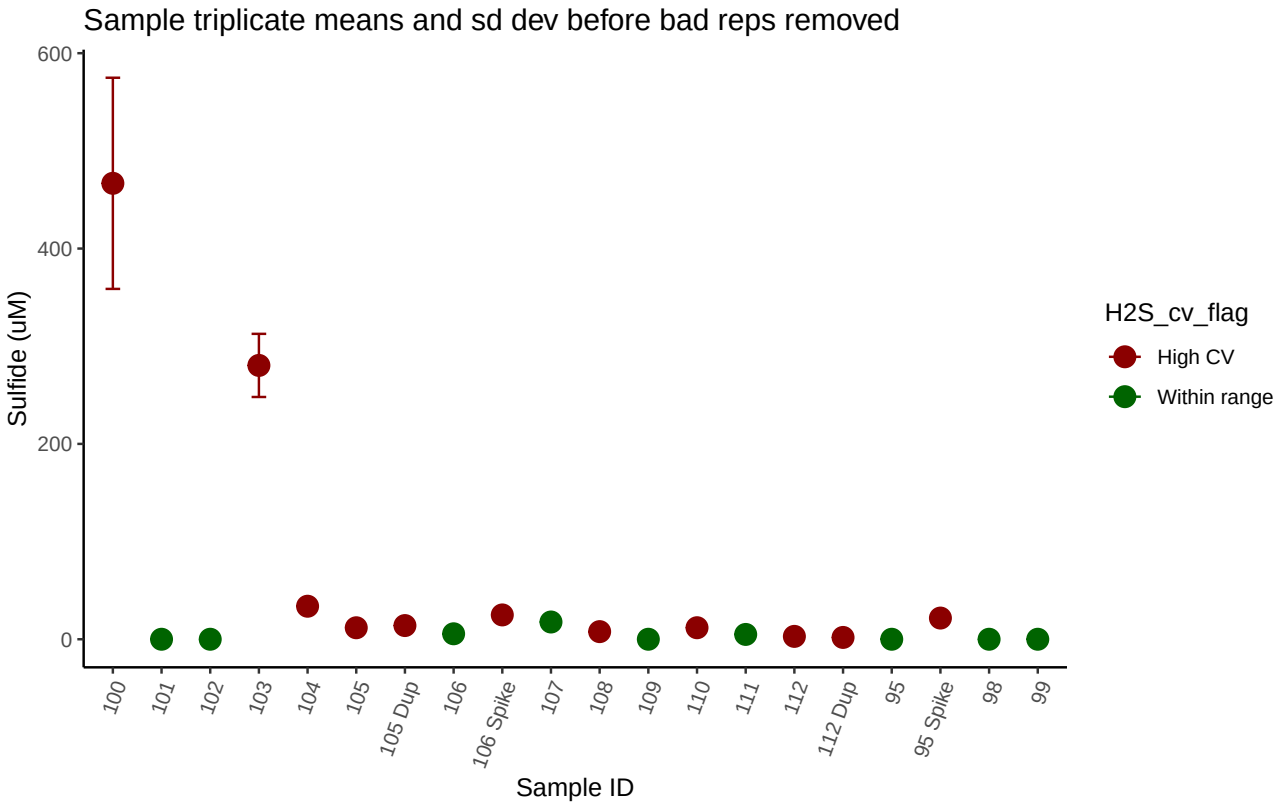
```
###### Run information - PLEASE CHANGE
  Date_Run = "20250529"  #Date that instrument was run
  Plate = "7"
  Month = "May"
  Year = "2025"
  Run_by = "Melanie Giessner"  #Instrument user
  Script_run_by = "Zoe Read" #Code user
  Project = "COMPASS"
  run_notes = "Std curve R squared is low: 0.969463
  Samples 110 and 100 still have high CVs.
  One dup (112) had high percent difference.
  One spk (95) had high percent recovery.
  " #any notes from the run

###### STDs to remove manually - NA unless standards have high CVs
  stds_to_remove <- c("B02", "C01", "D02", "E02")

  Chkstds_to_remove <- c(NA)

  MCs_to_remove <- c(NA)

##Sample data that was entered incorrectly
  # The Old ID is the original, incorrectly-entered ID and the New ID is the correct ID to change it to.
  Old_ID_1 = NA
  New_ID_1 = NA
```

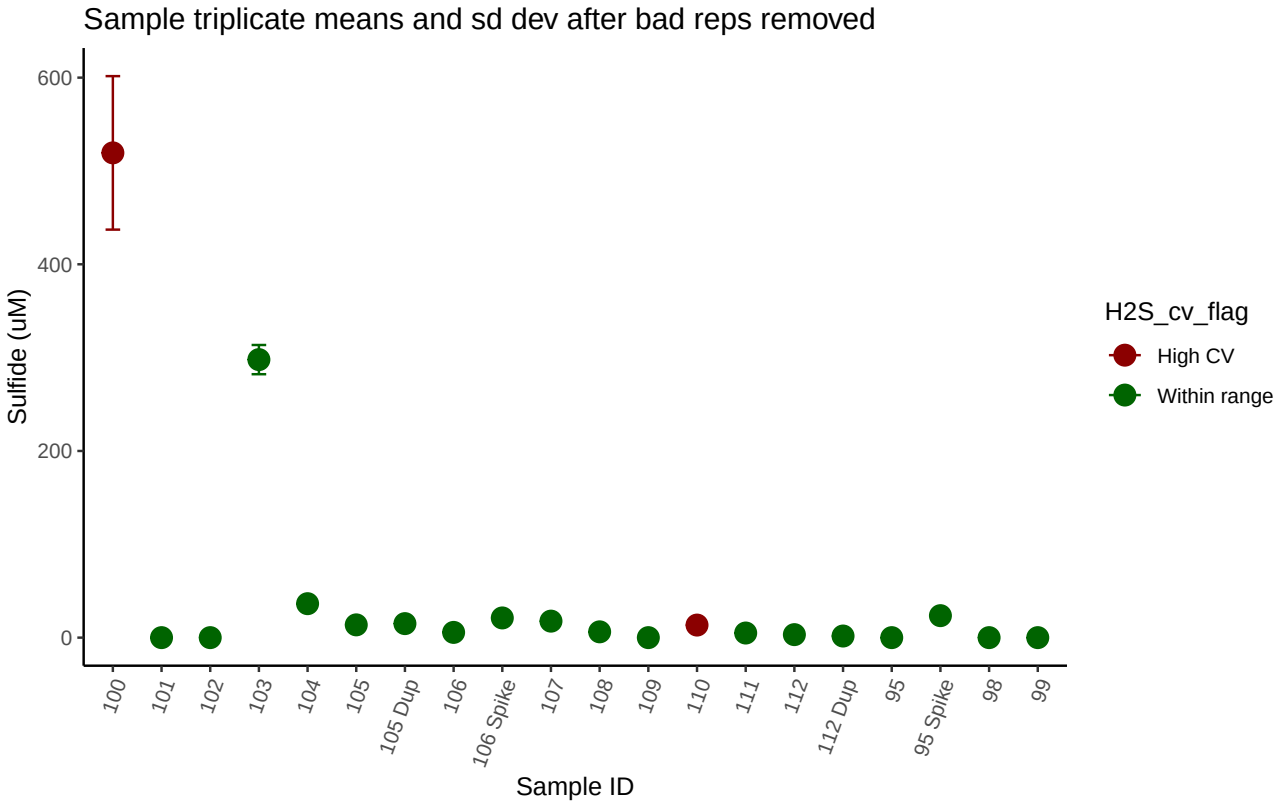
```
## [1] "Std Curve R squared: 0.9695"
```

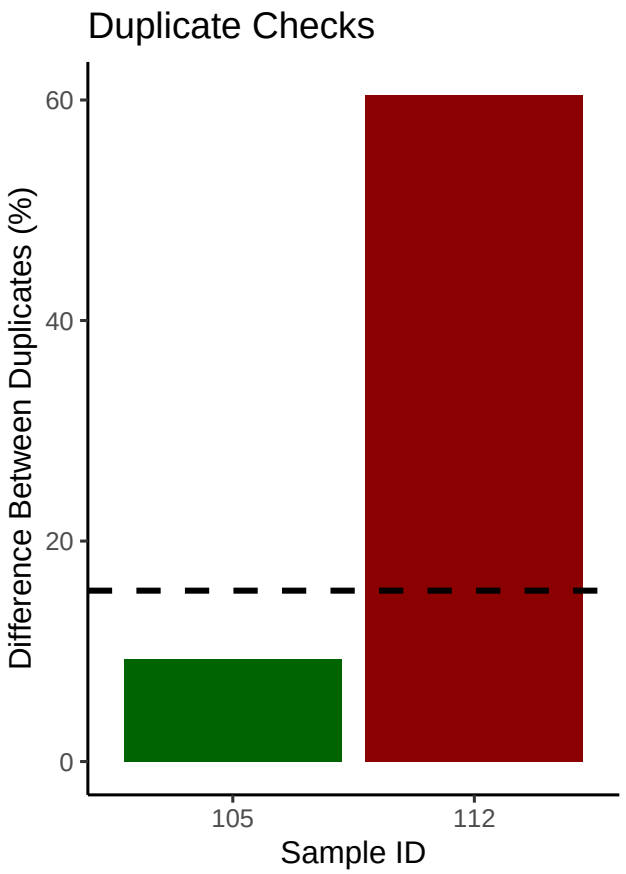

Sulfide Standard Curve
Abs
0.9
0.6
0.3
0
25
50
75
100
Conc

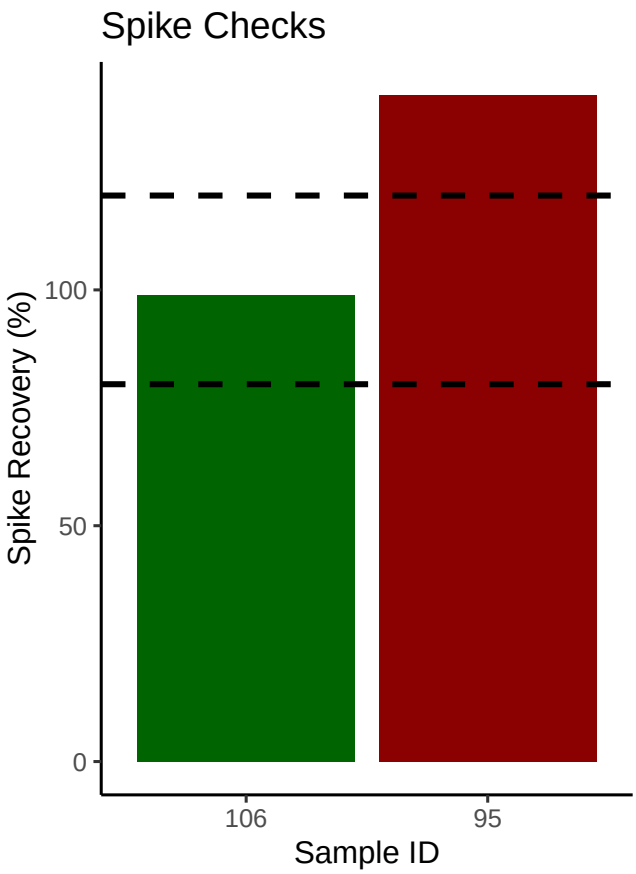

Sulfide Slopes
Slope
0.020
0.015
0.010
0.005
0.000
Date

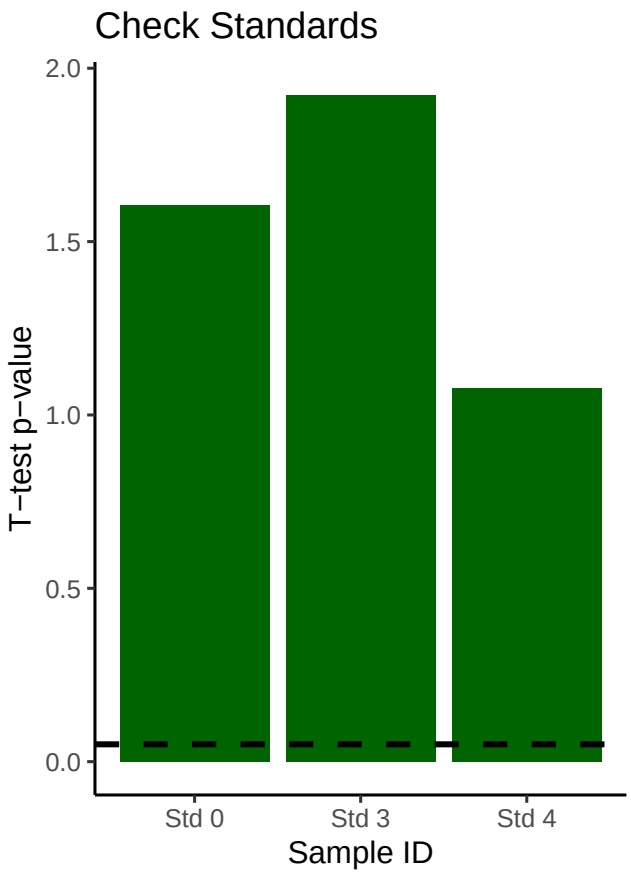

Sulfide Intercepts
Intercept
0.11
0.09
0.07
0.05
Date

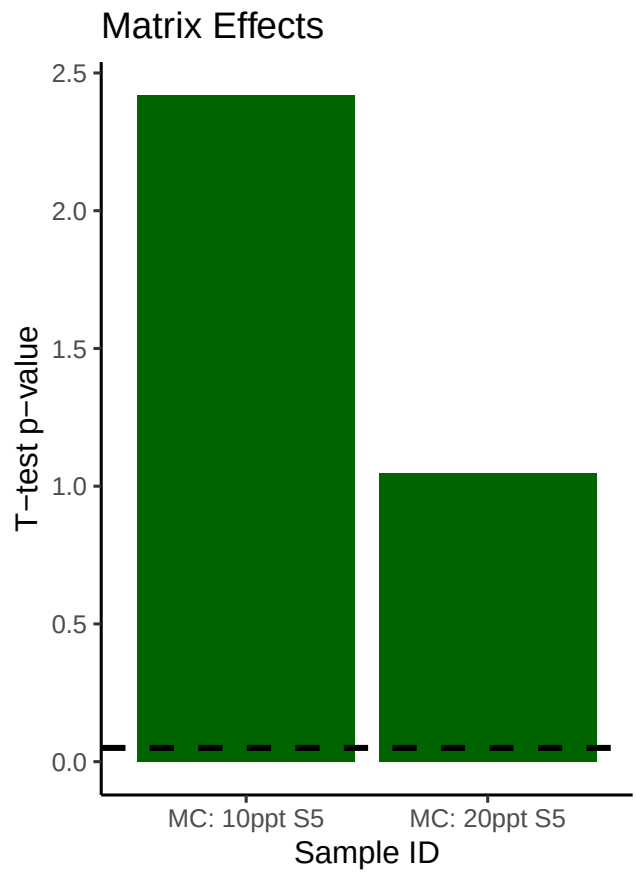

Sample triplicate means and sd dev before bad reps removed
Sulfide (uM)
600
400
200
0
100
101
102
103
104
105
105 Dup
106
106 Spike
107
108
109
110
111
112
112 Dup
95
95 Spike
98
99
Sample ID
H2S_cv_flag
High CV
Within range


Sample triplicate means and sd dev after bad reps removed
Sulfide (uM)
600
400
200
0
100
101
102
103
104
105
105 Dup
106
106 Spike
107
108
109
110
111
112
112 Dup
95
95 Spike
98
99
Sample ID
H2S_cv_flag
High CV
Within range


Duplicate Checks
Difference Between Duplicates (%)
60
40
20
0
105
112
Sample ID


Spike Checks
Spike Recovery (%)
100
50
0
106
95
Sample ID


Check Standards
T−test p−value
2.0
1.5
1.0
0.5
0.0
Std 0
Std 3
Std 4
Sample ID


Matrix Effects
T−test p−value
2.5
2.0
1.5
1.0
0.5
0.0
MC: 10ppt S5
MC: 20ppt S5
Sample ID