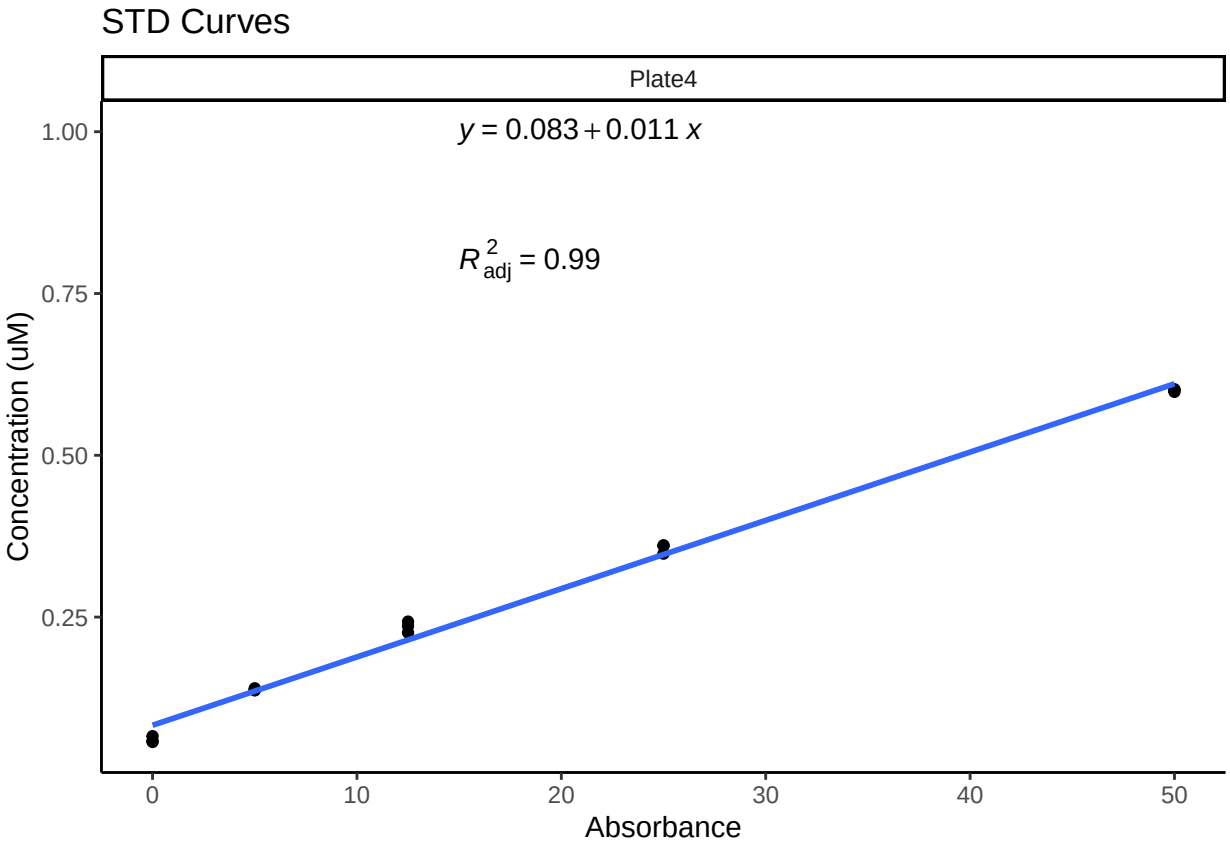
TEMPEST: Porewater Sulfide

2025 Samples Ran on 20251110

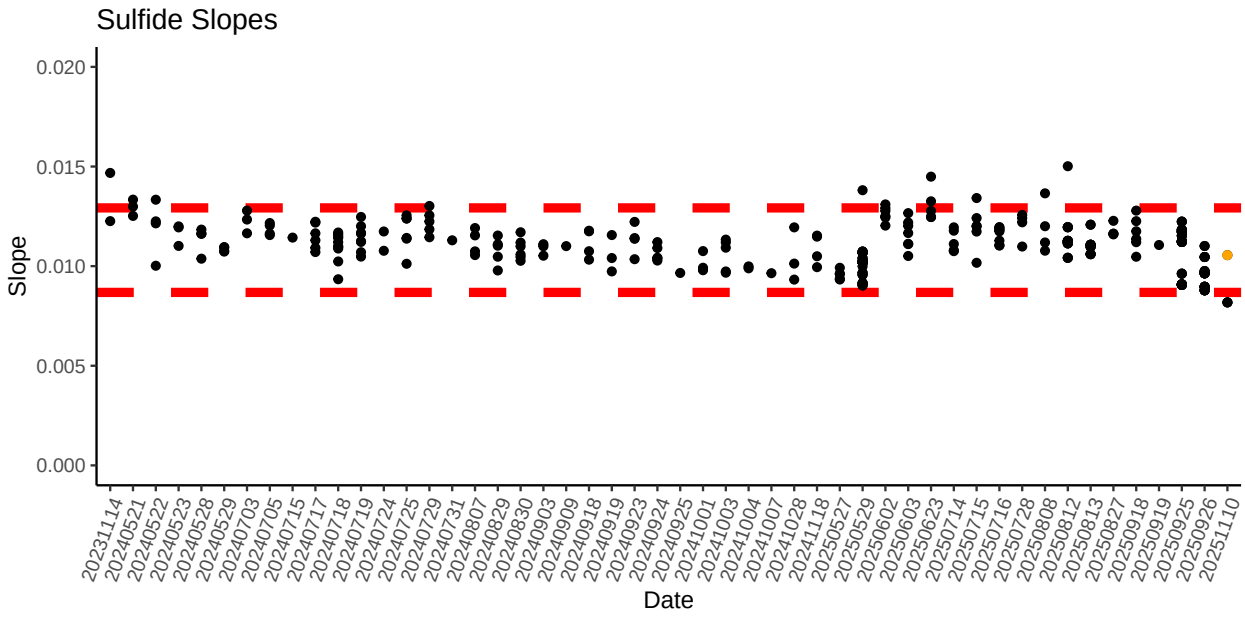
2025-12-10

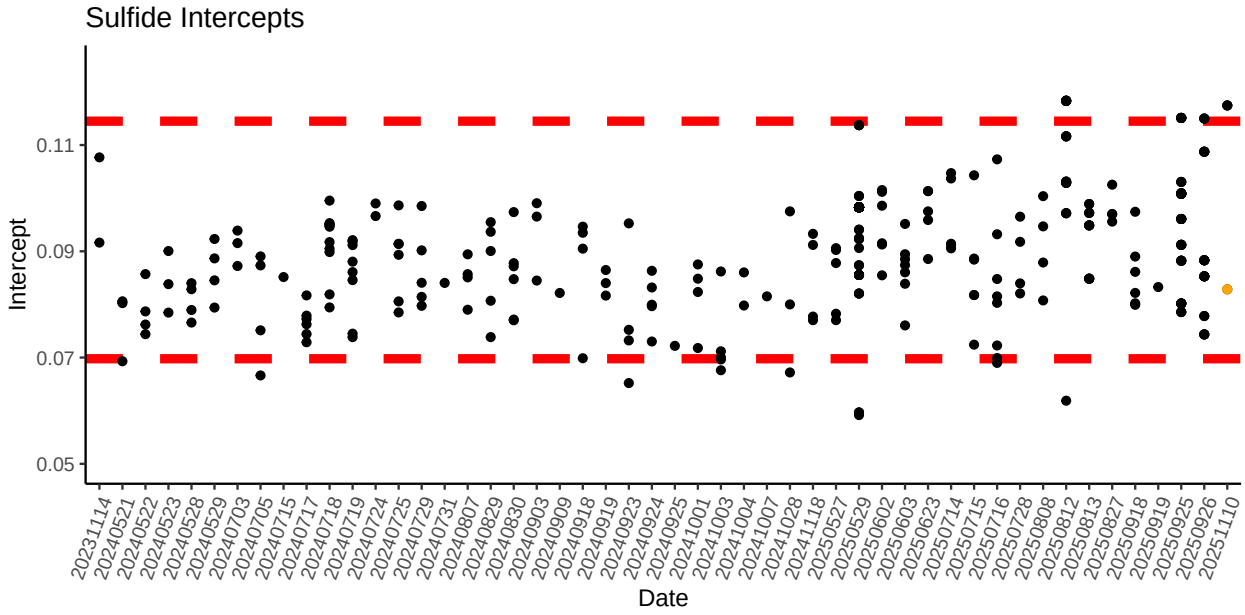
Run Information

```
###things that need to be changed
Date_Run = "20251110"
plates<- c("Plate4")
Month = "Nov"
Year = "2025"
Run_by = "Zoe Read"  #Instrument user
Script_run_by = "Zoe Read" #Code user
Project = "COMPASS"

Run_notes="Some sample IDs are missing from metadata: TMP_SW_PW_H6_20250926_15CM
Removed std 5 because it was low and none of the sample absorbances are above Std 3.
Matrix checks were high, probably because std 5 was low.
Dup and spk were good.
50 uL spike used"#any notes from run

#Stds that should be excluded
stds_to_remove<-data.frame(Plate=c("Plate4"),IDs=c("Std 5"))
# stds_to_remove<-NA
```


STD Curves
Plate4
y = 0.083 + 0.011 x
R adj 2 = 0.99
Concentration (uM)
1.00
0.75
0.50
0.25
0
10
20
30
40
50
Absorbance

Checking STD Data against QAQC file





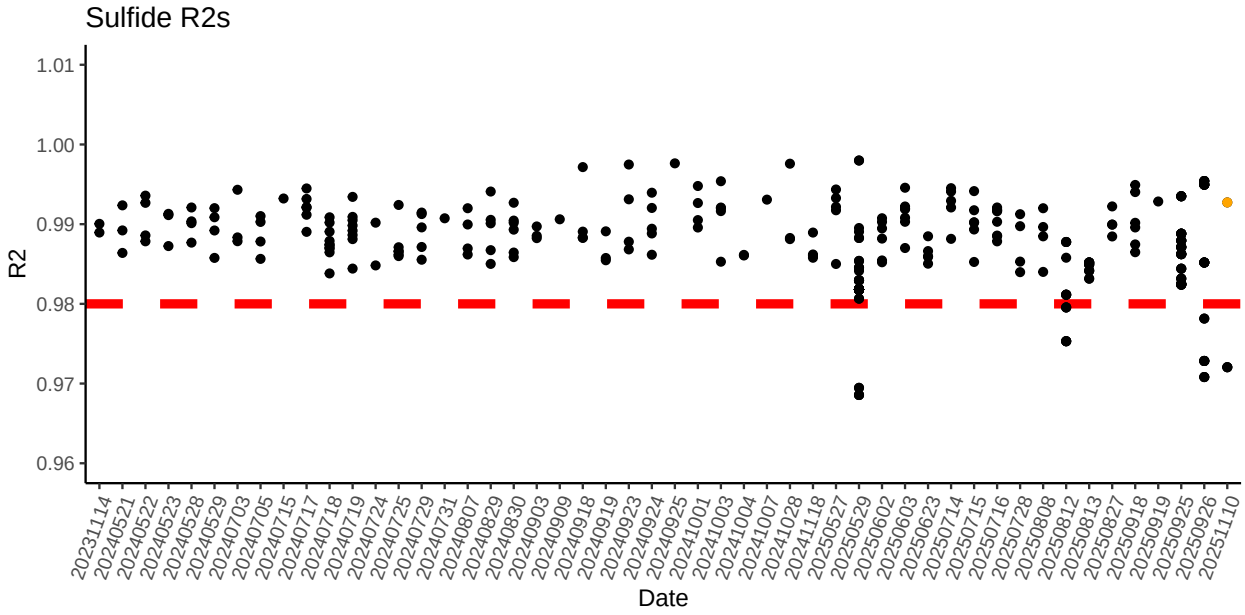
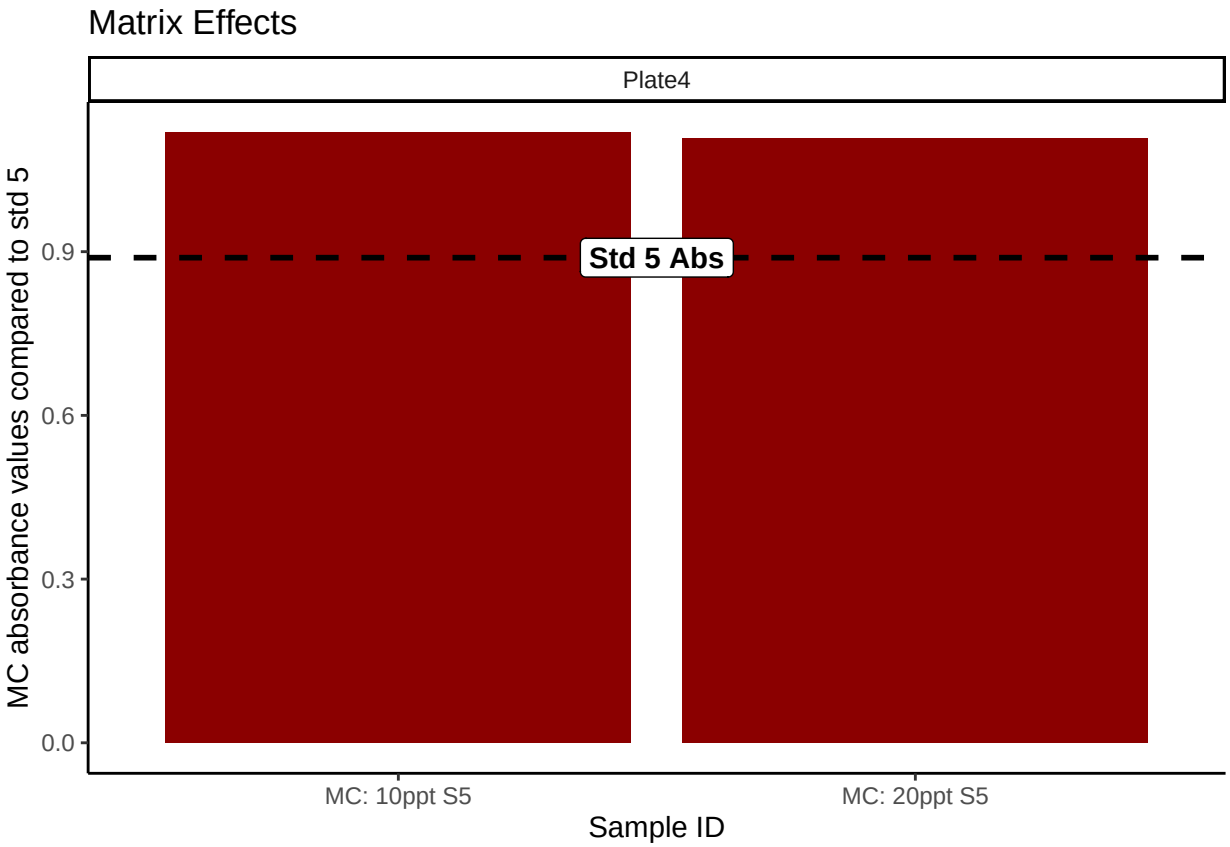
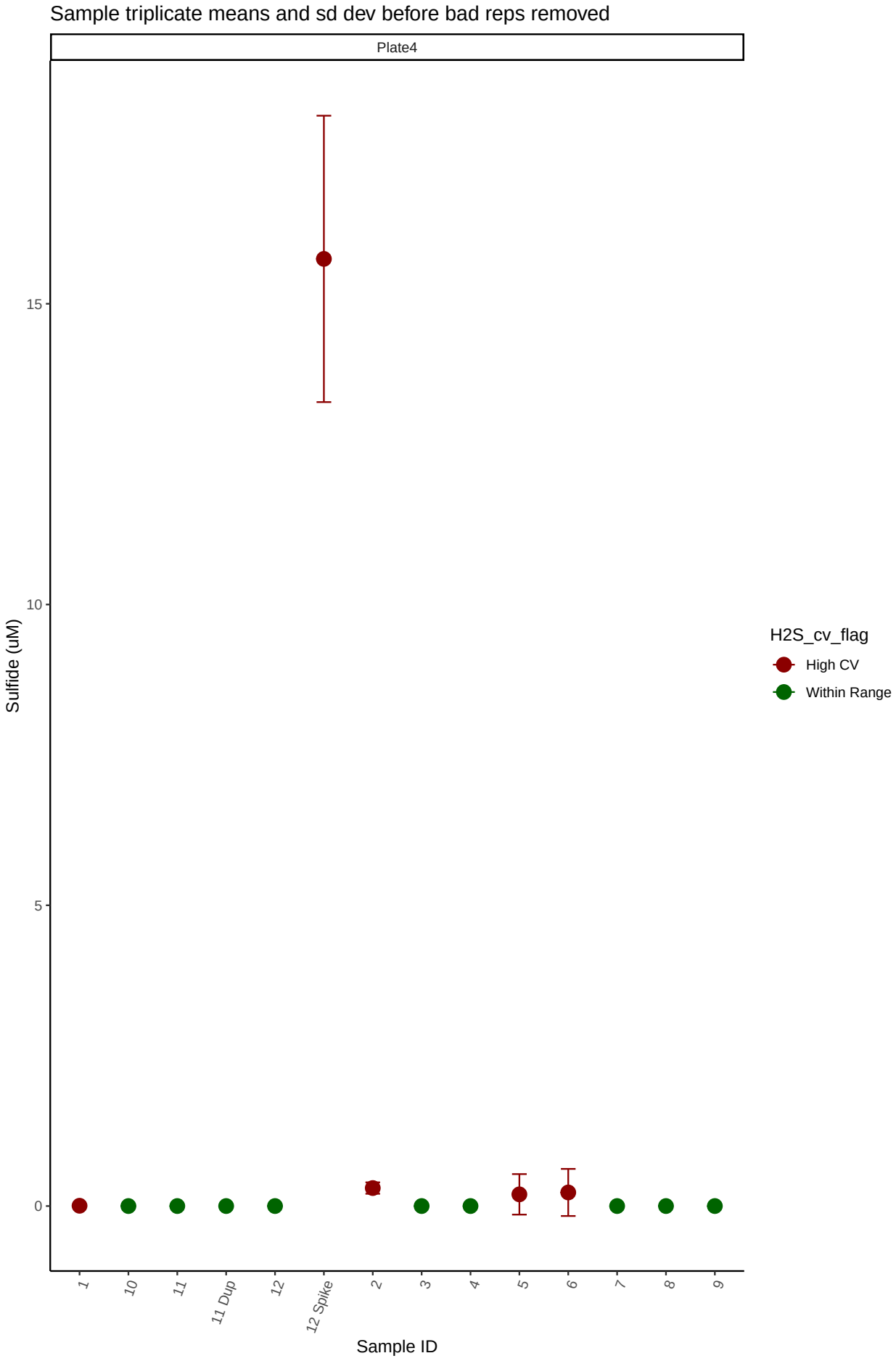


Table 1: Best std curve to use:

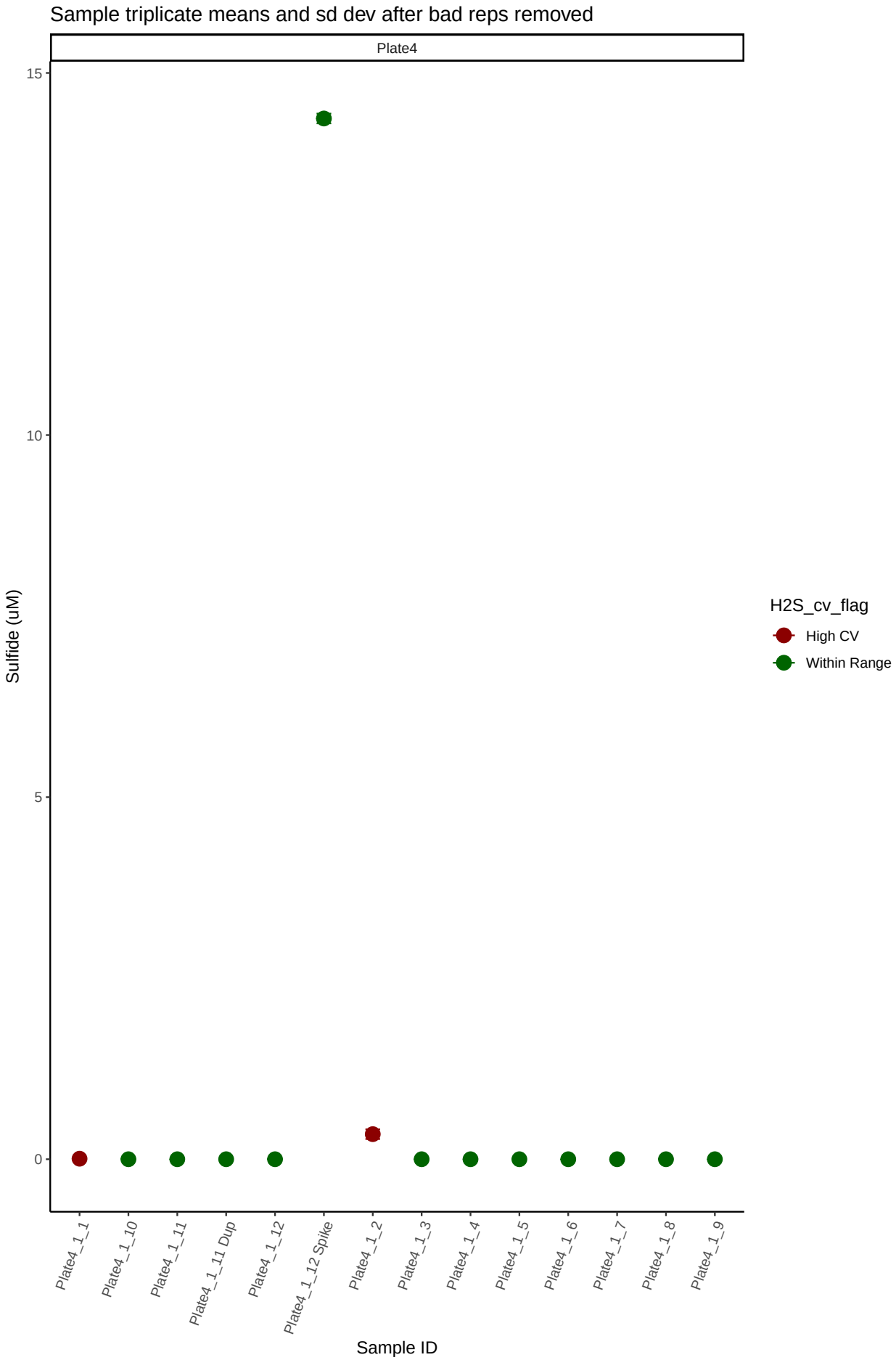
Date	Project	R2	Slope	Intercept	Top_STD	Plate
20251110	COMPASS	0.9927291	0.0105526	0.0828443	50	Plate4

Matrix Check QAQC

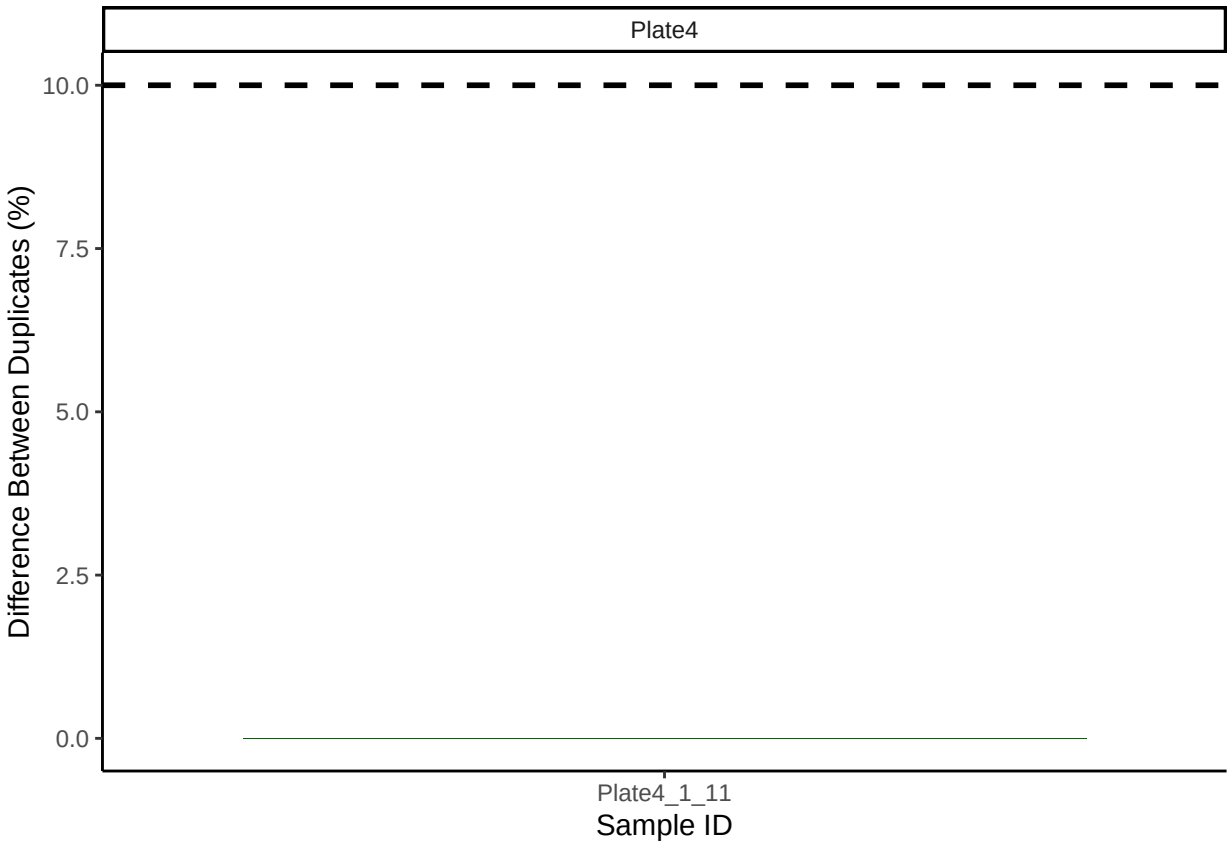



Sample triplicate means and sd dev before bad reps removed
Plate4
Sulfide (uM)
15
10
5
0
H2S_cv_flag
High CV
Within Range
1
10
11
11 Dup
12
12 Spike
2
3
4
5
6
7
8
9
Sample ID

Remove bad reps

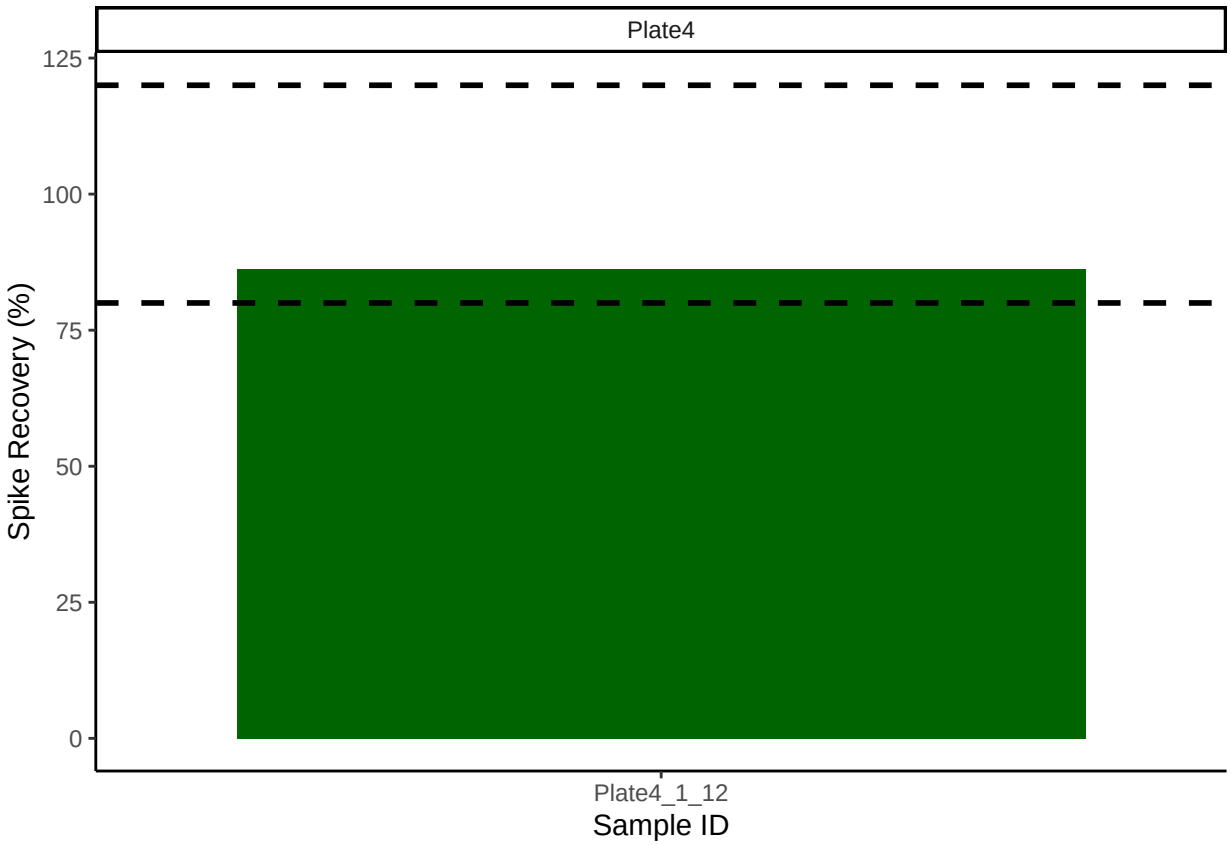


Check the dups for QAQC




```
## [1] ">60% of Duplicates are within <10%"
```

Check the spks for QAQC

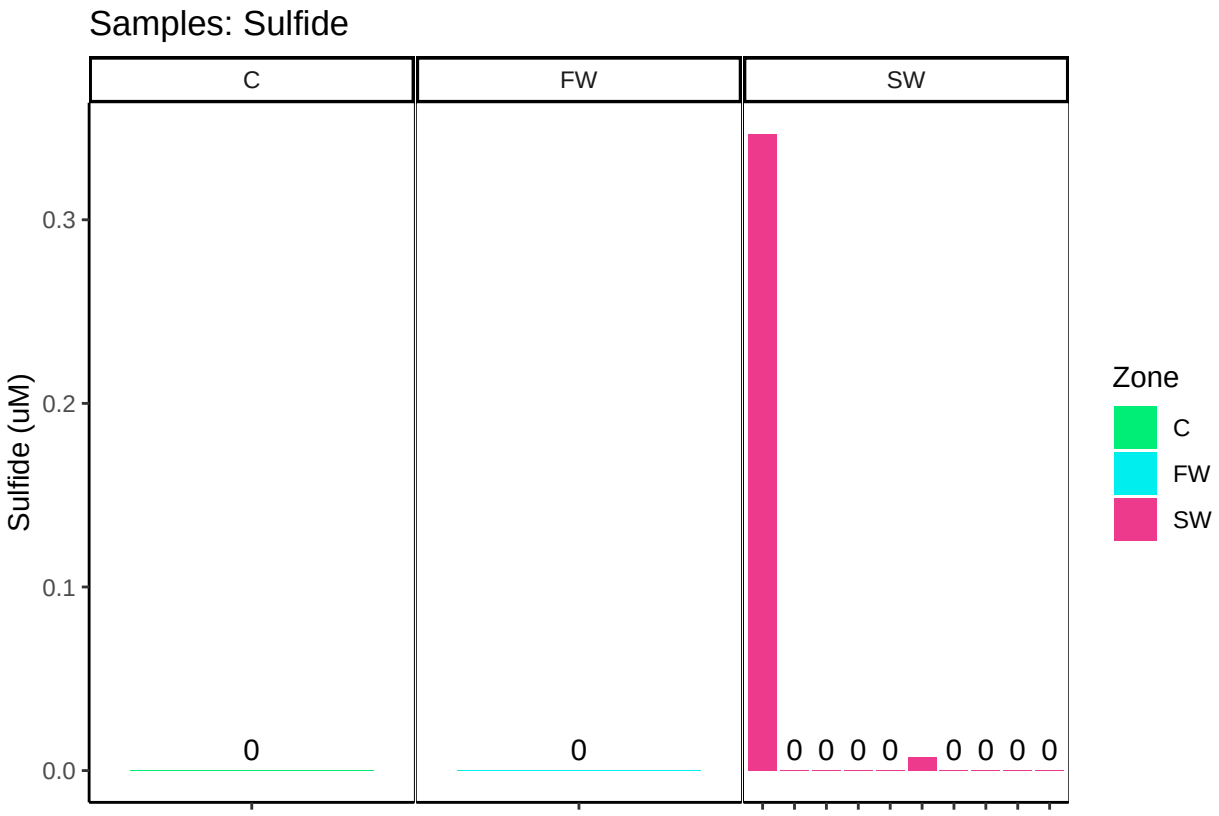



```
## [1] ">60% of Spikes are within range"
```

```
## ***Some sample IDs are missing from metadata.***
```

```
## [1] "TMP_SW_PW_H6_20250926_15CM"
```

Visualize Data by Plot



###END