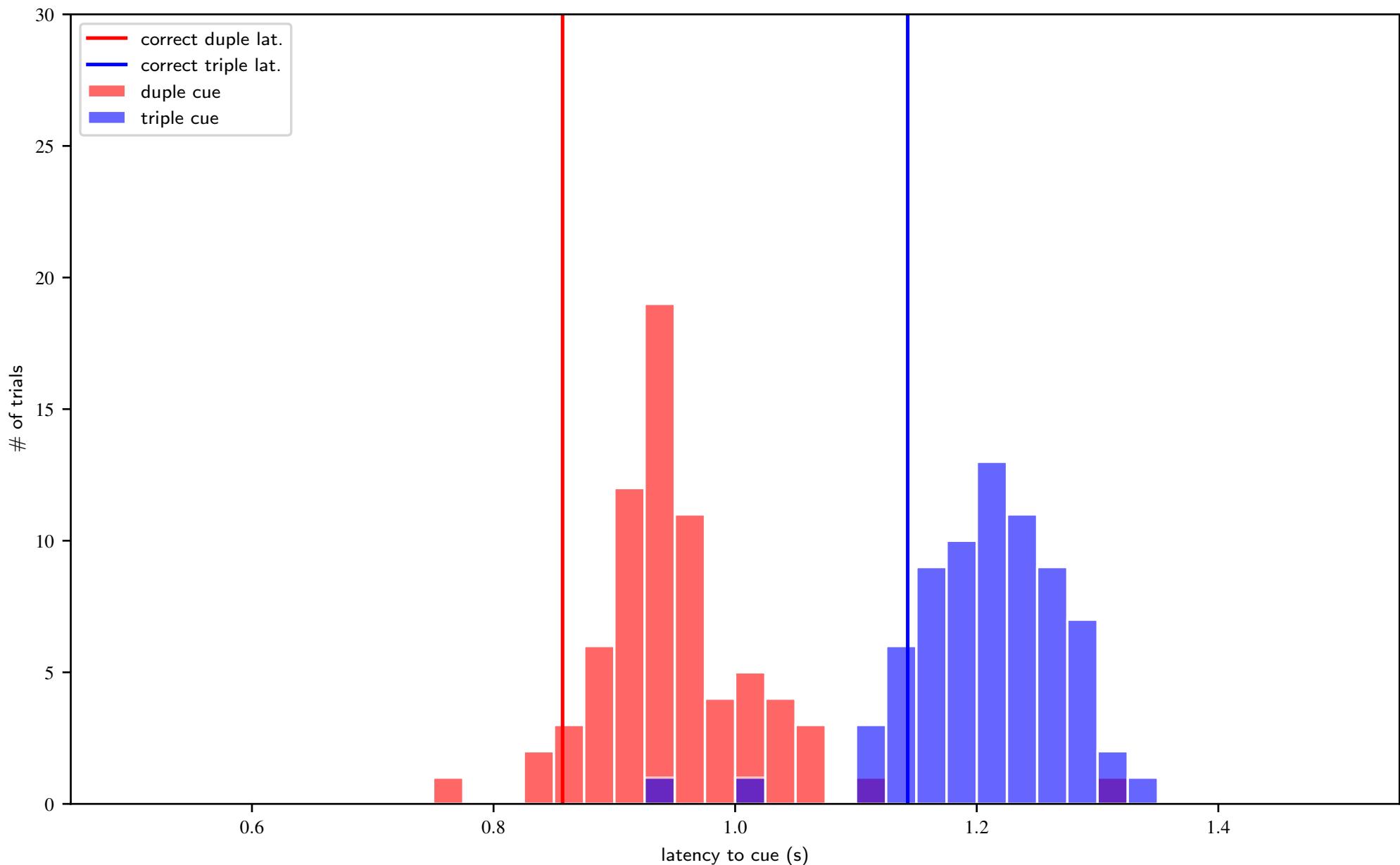


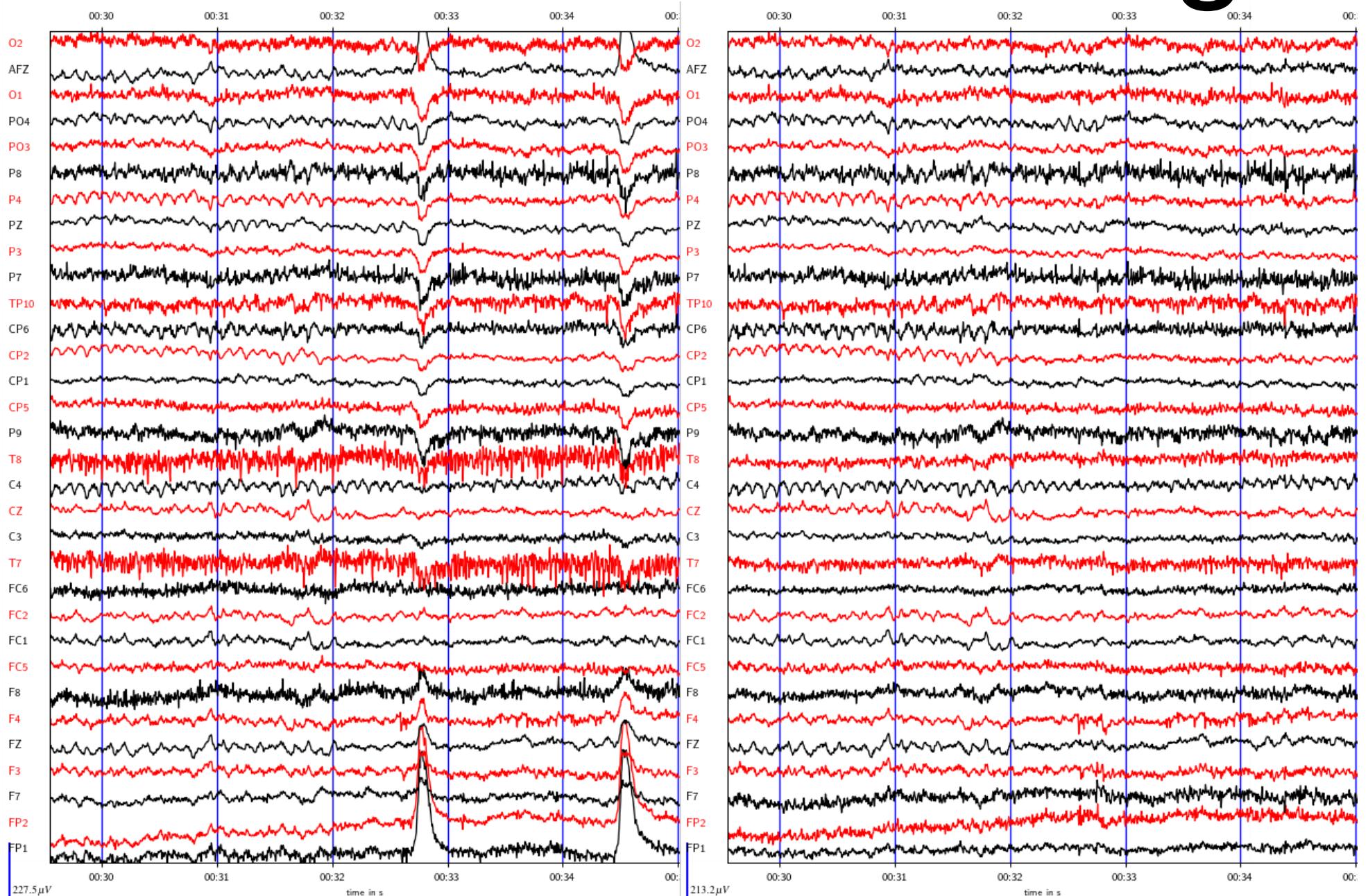
# Polyrhythm Project

Results 2019

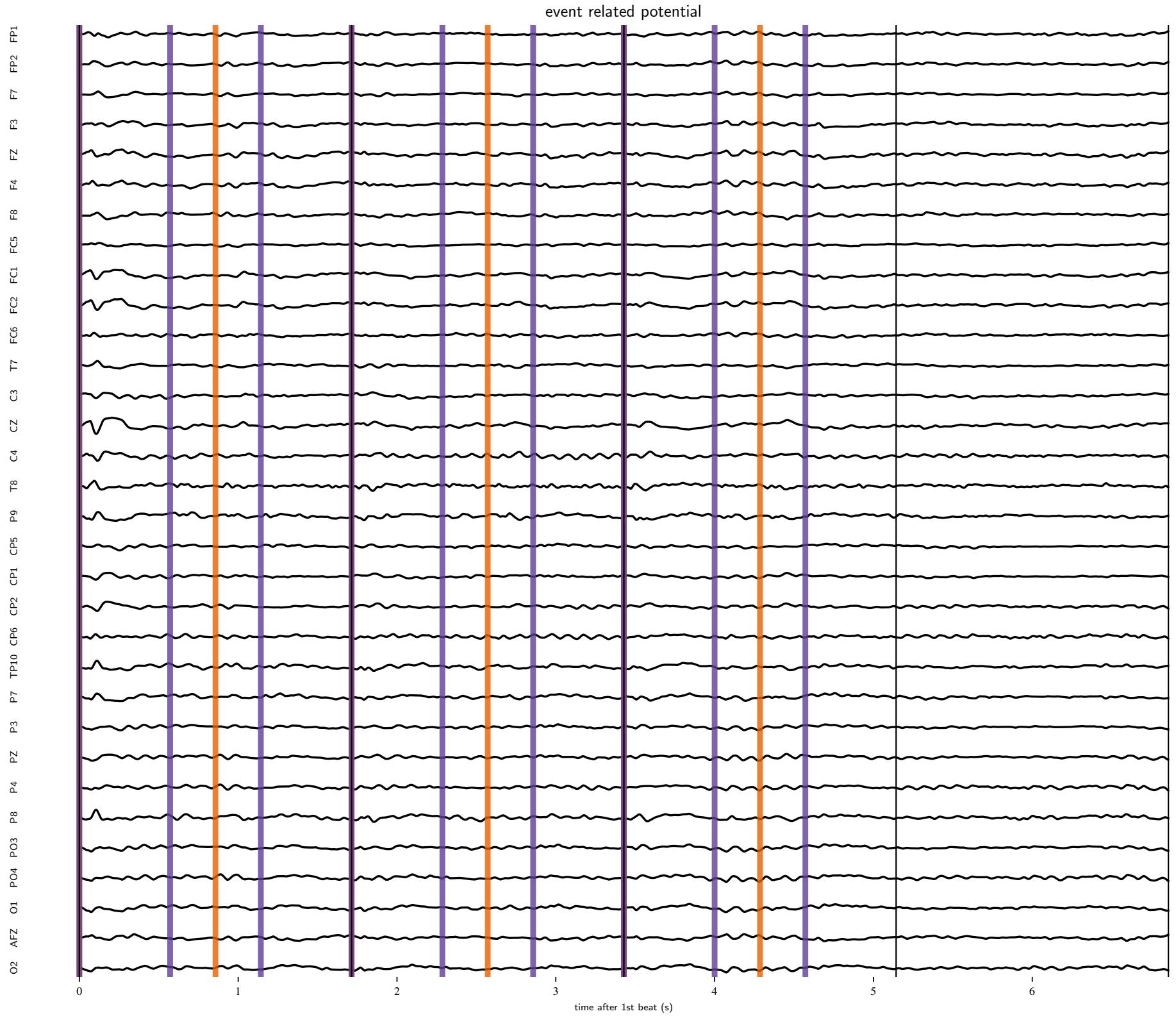
# S01 — Performance



# S01 — Data Cleaning



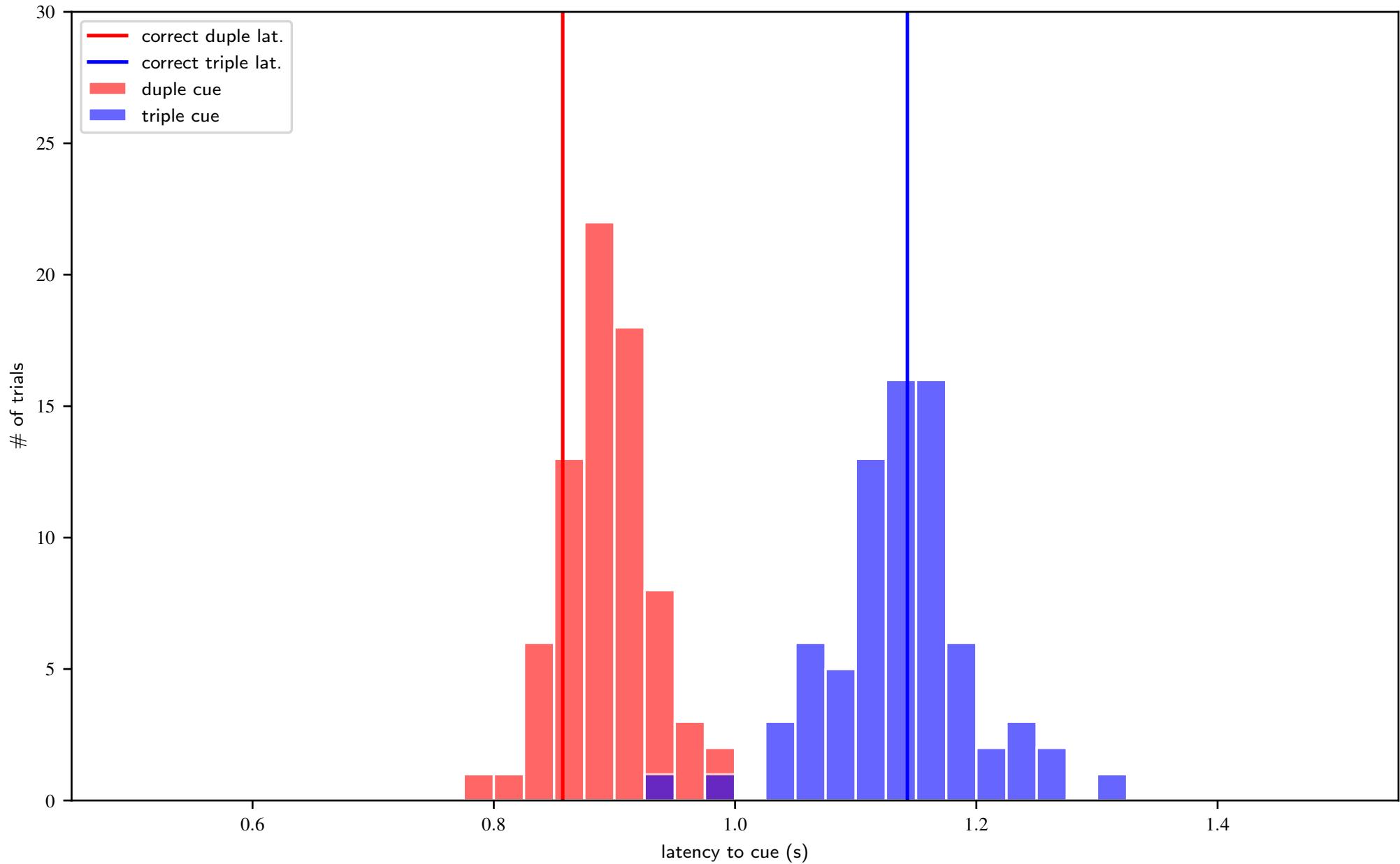
# S01 — ERP all channels



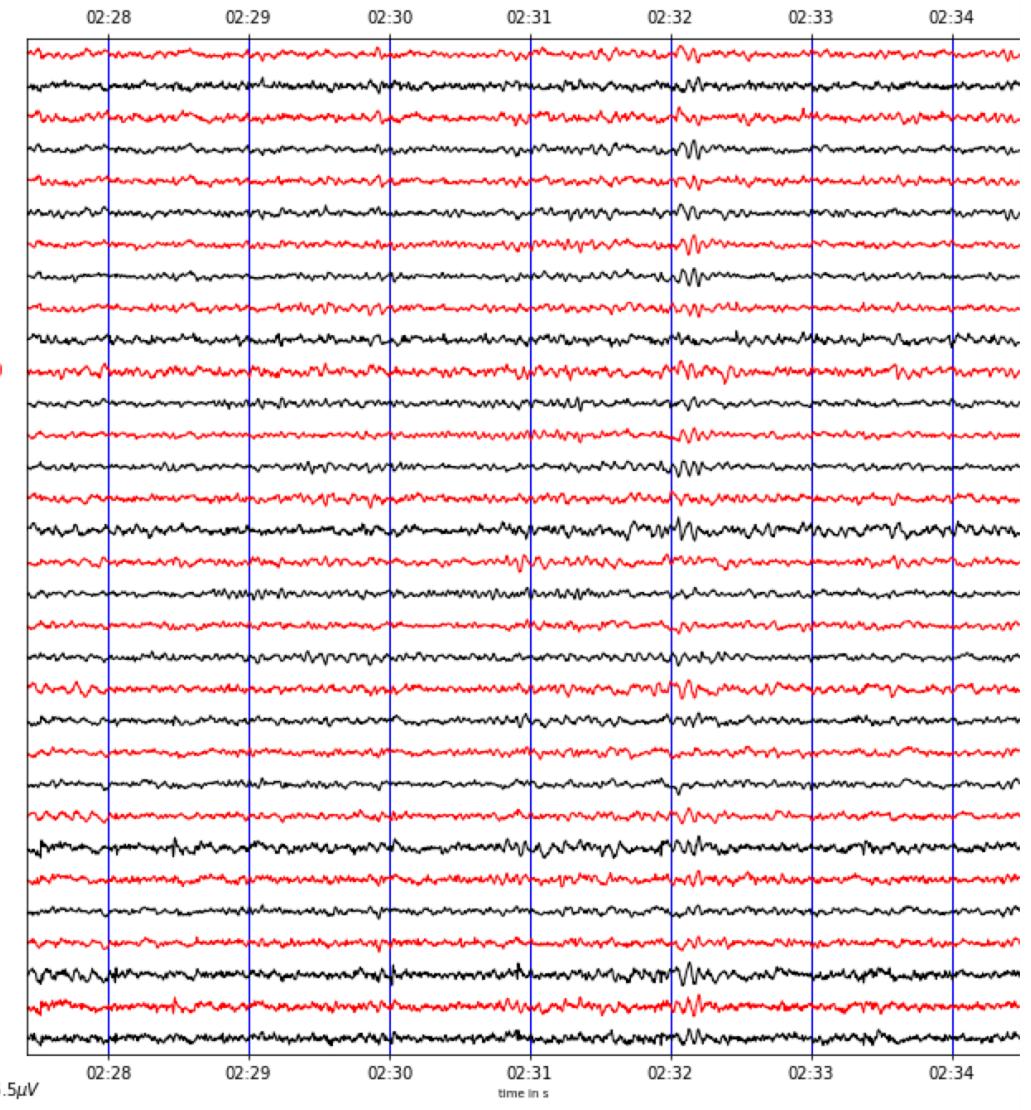
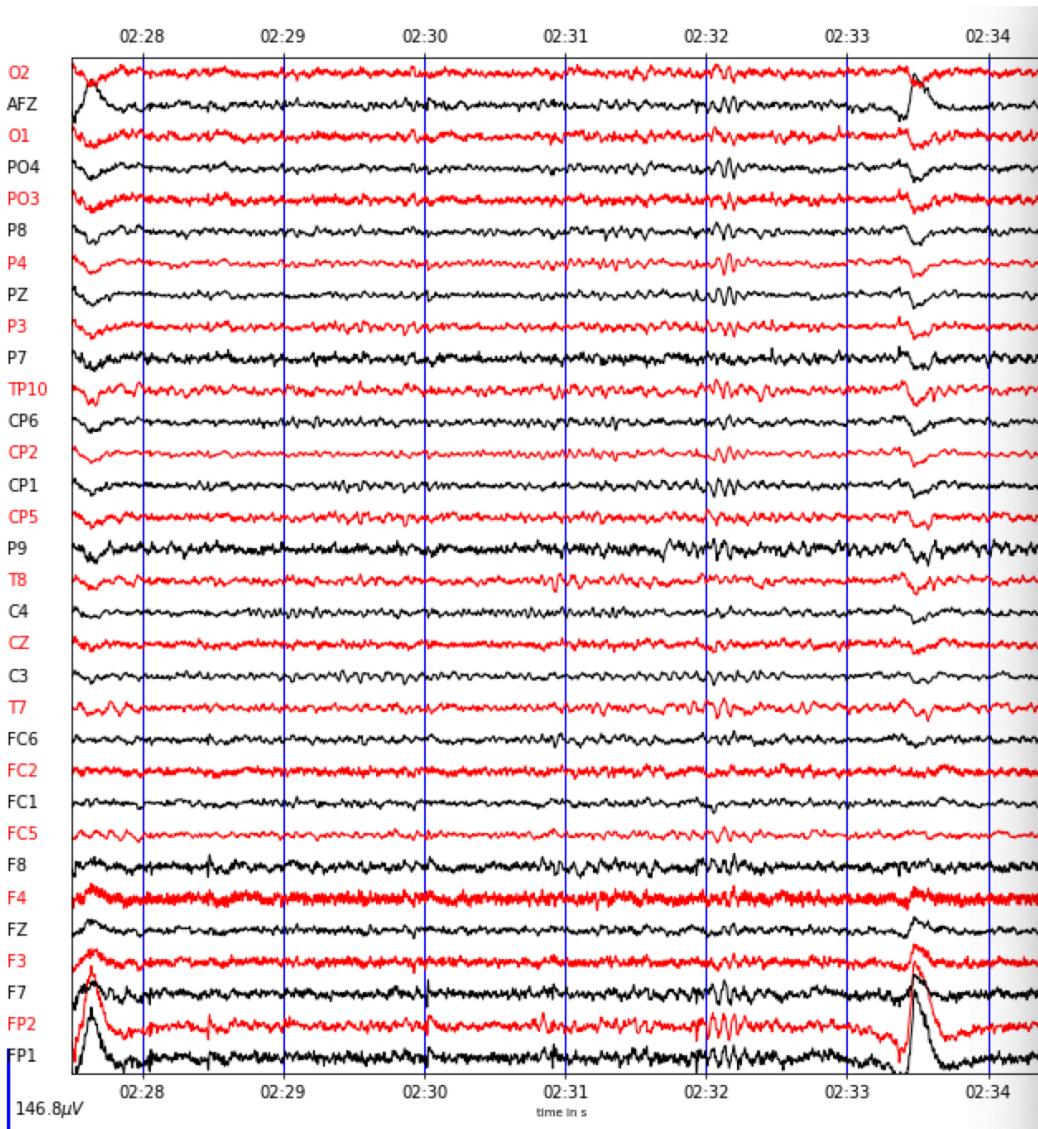
# S01 — ERP CCA



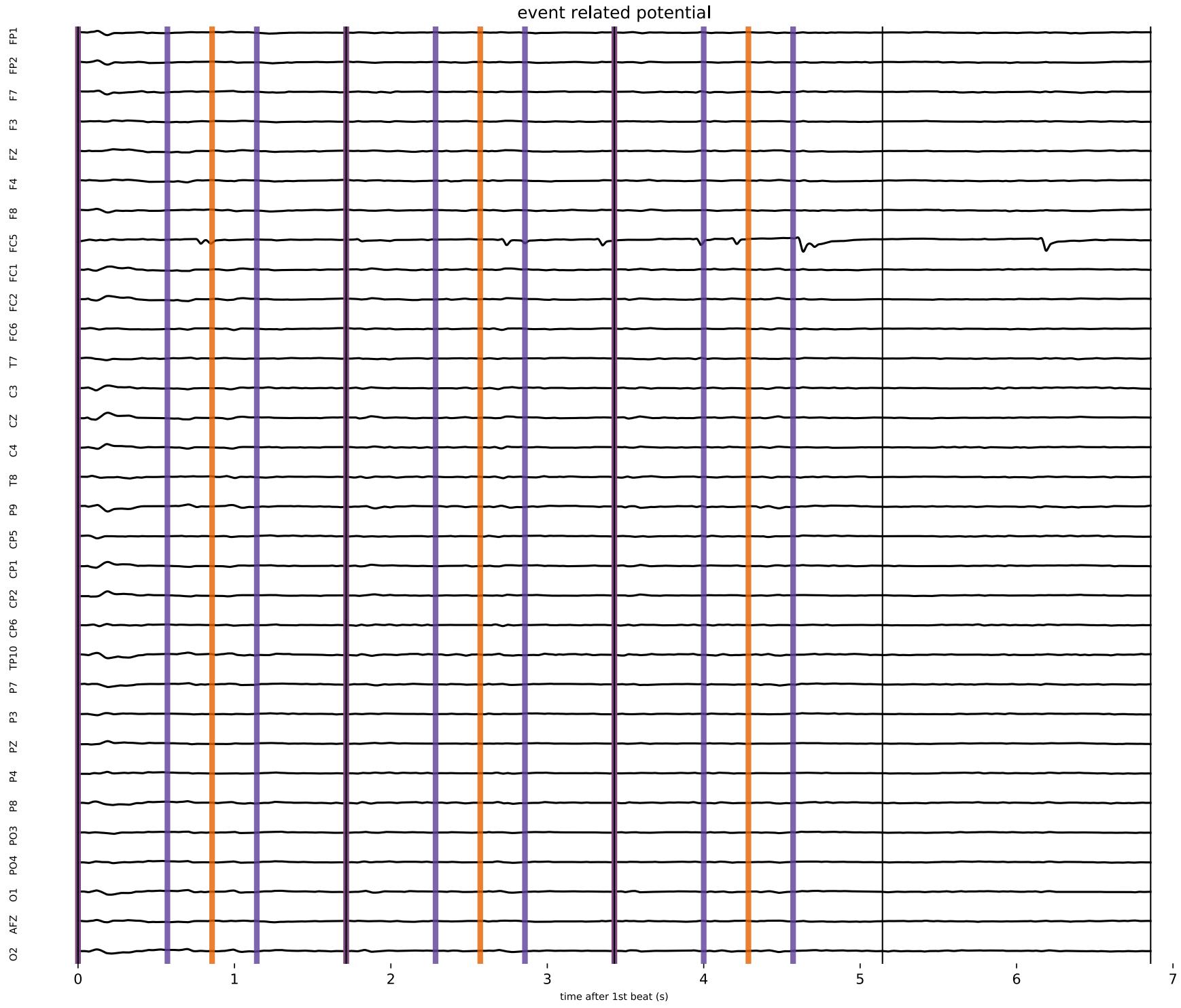
# S02 – Performance



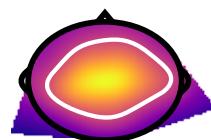
# S02 — Data Cleaning



# SO2 — ERP all channels



# S02 – ERP CCA



$\rho_1 = 0.35$



$\rho_2 = 0.25$



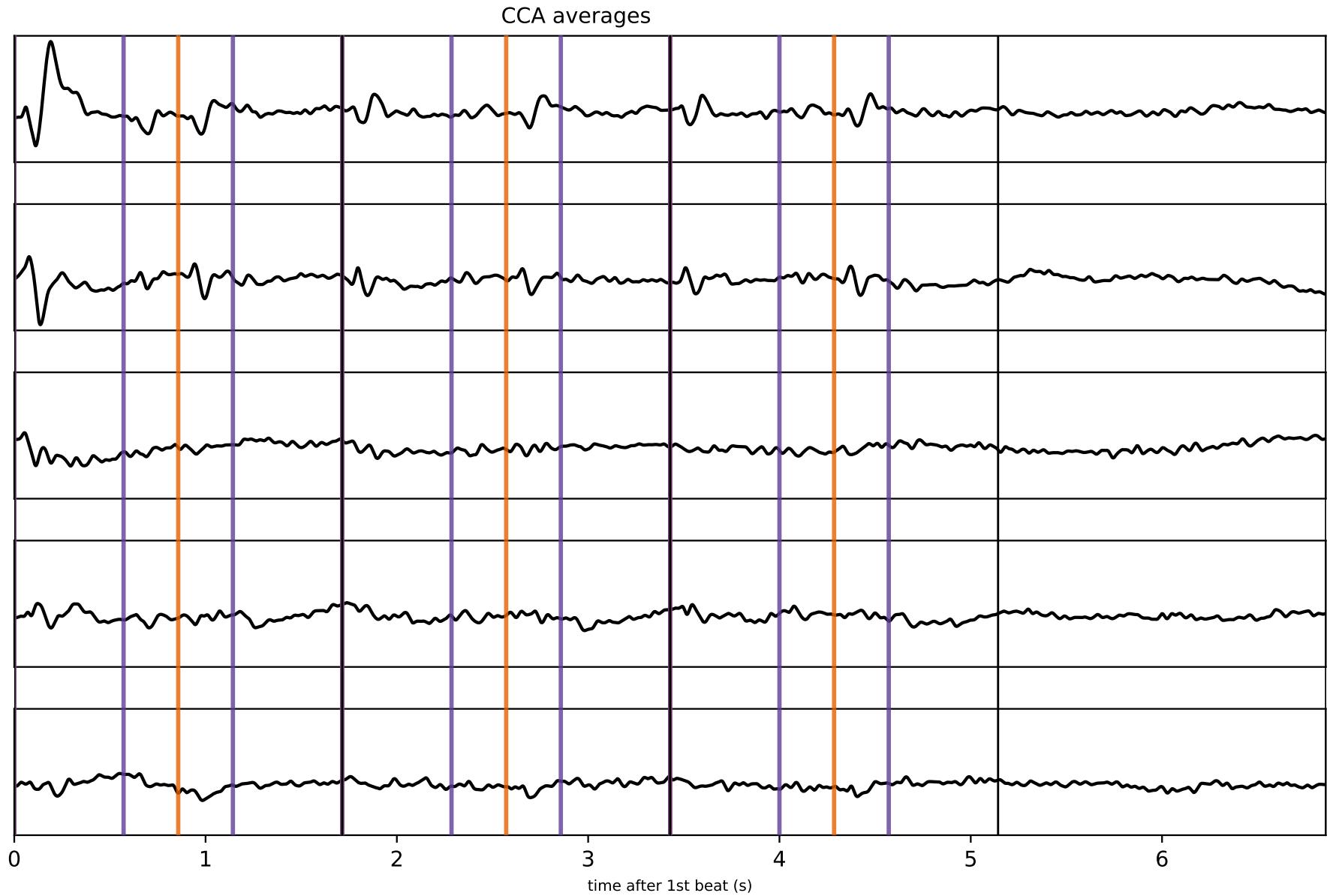
$\rho_3 = 0.22$



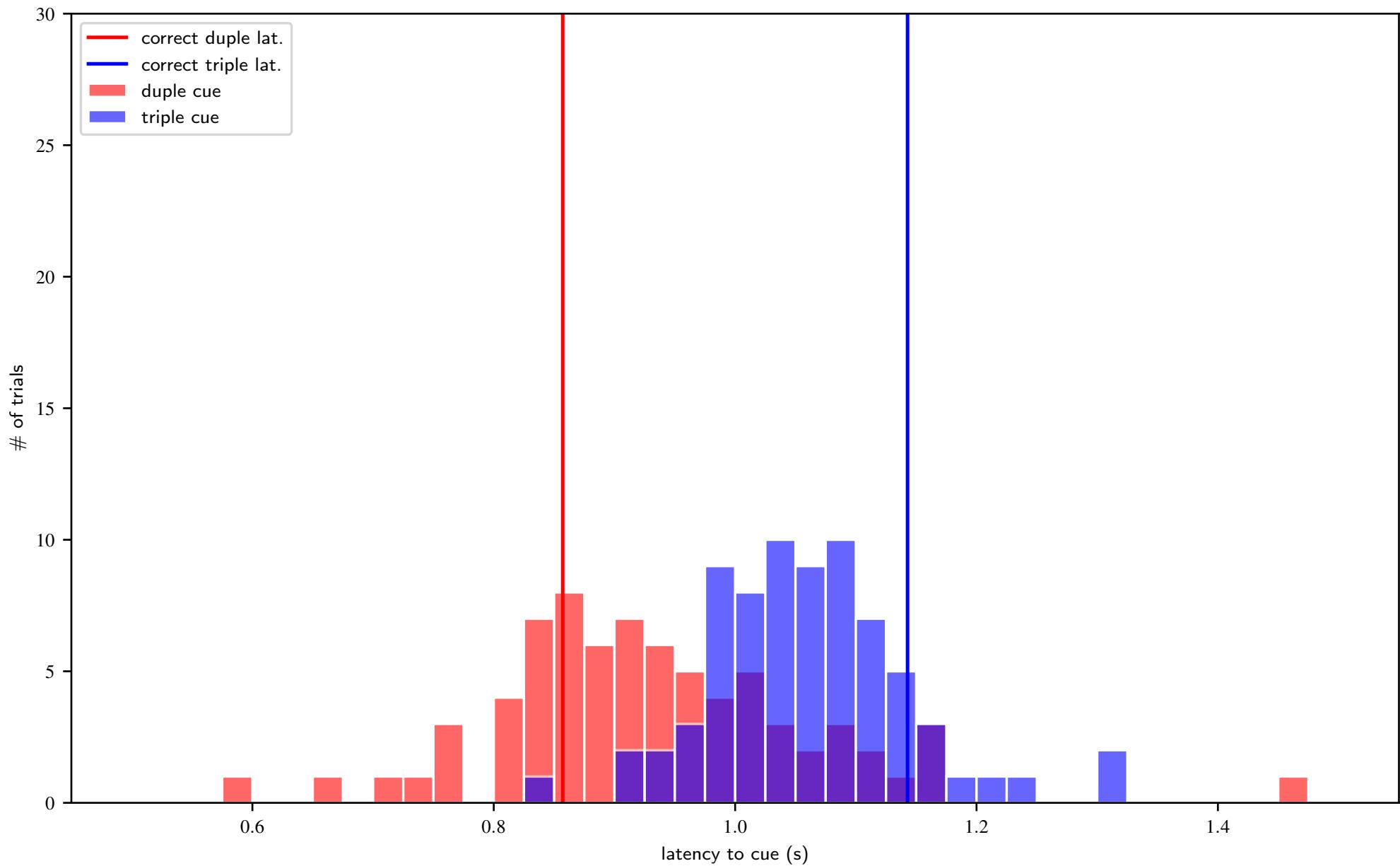
$\rho_4 = 0.19$



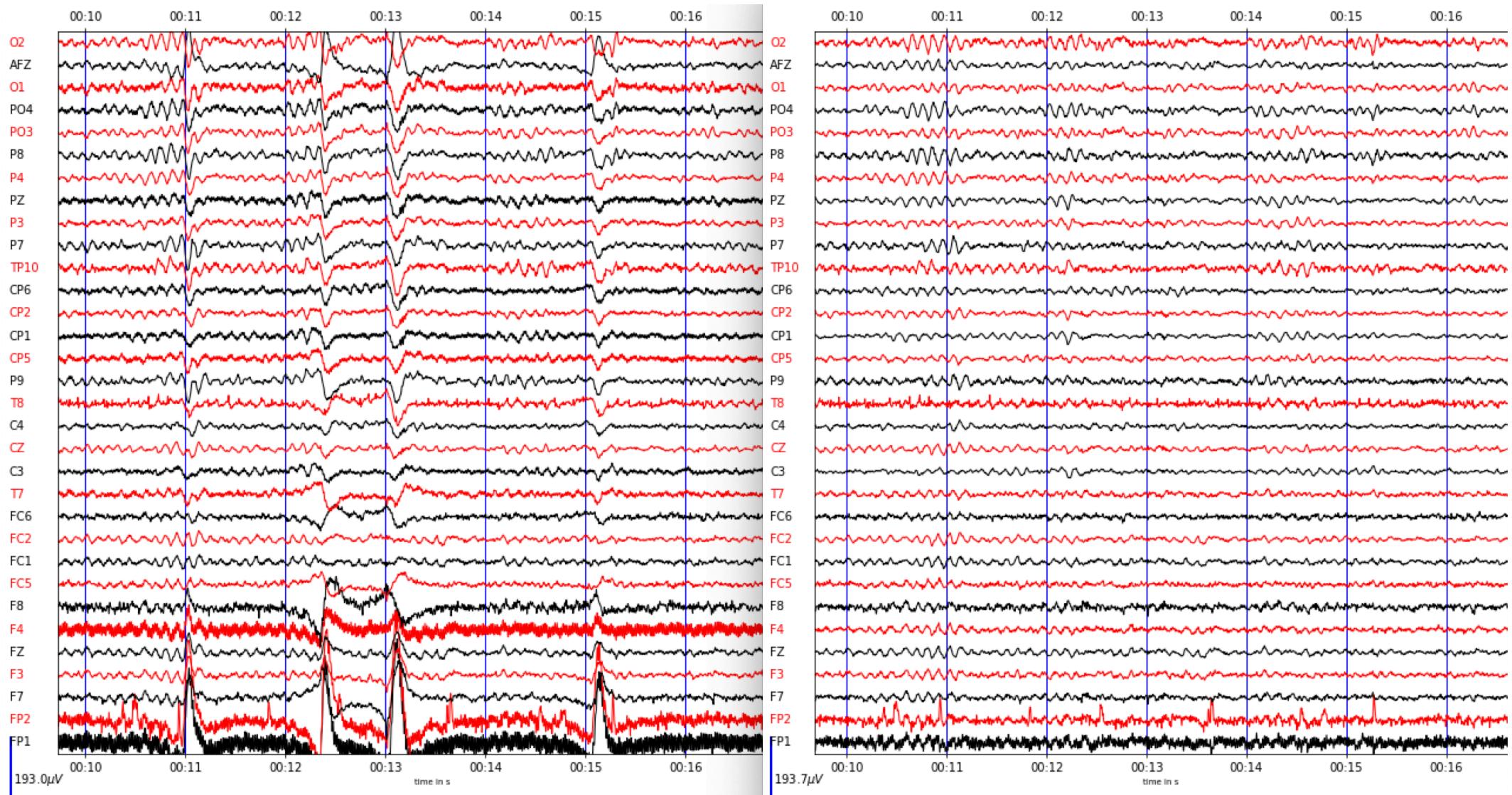
$\rho_5 = 0.17$



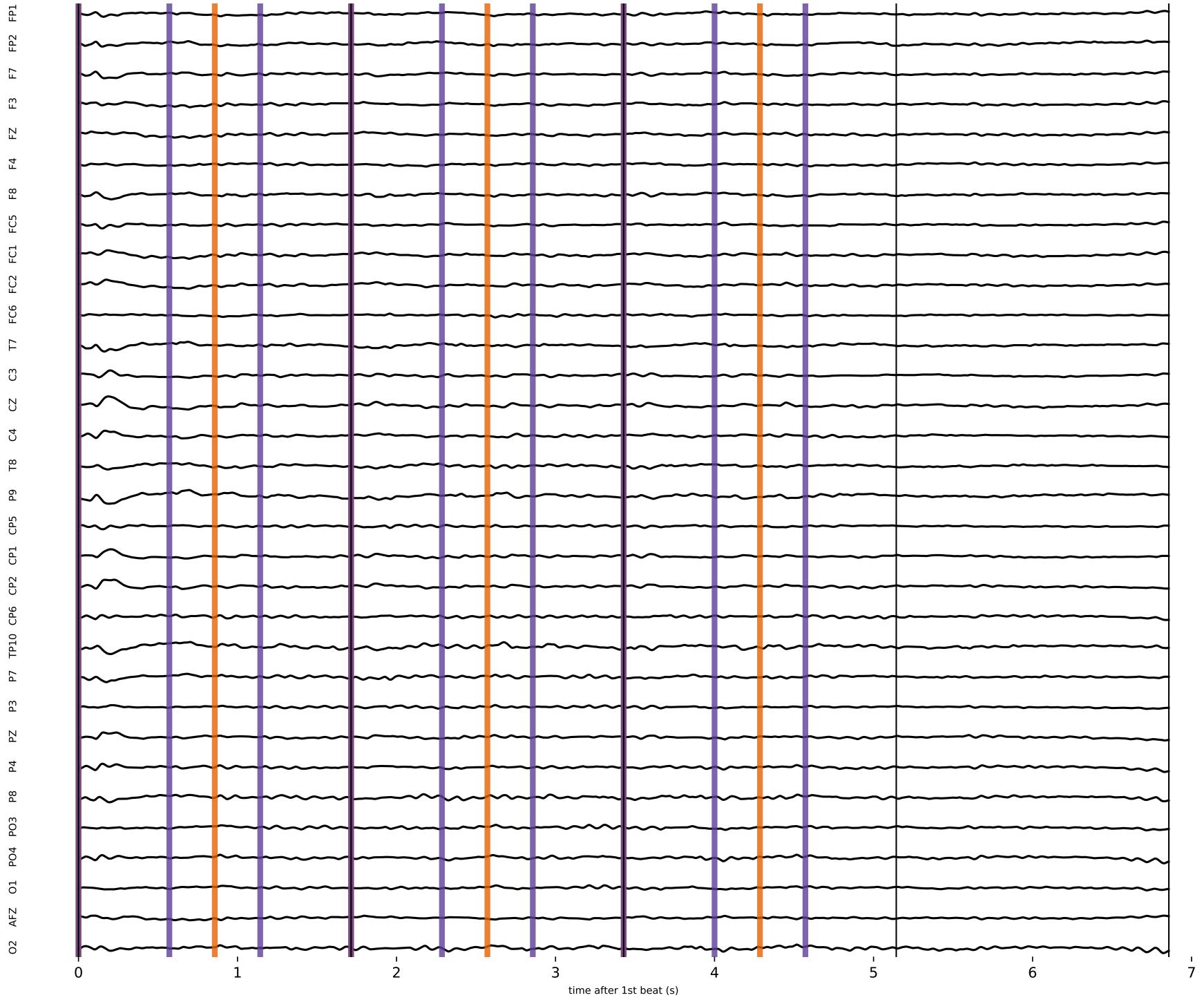
# S03 – Performance



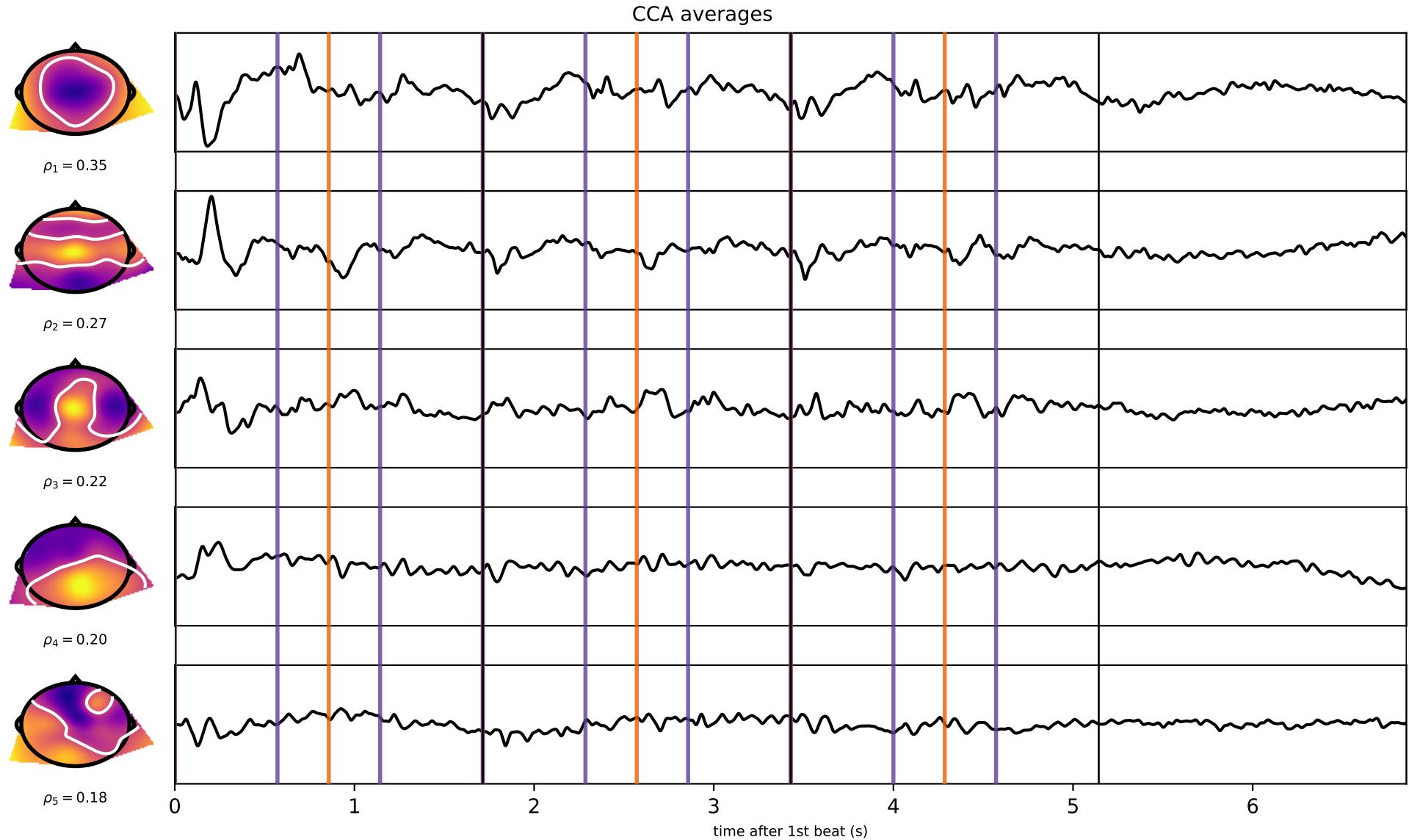
# S03 — Data Cleaning



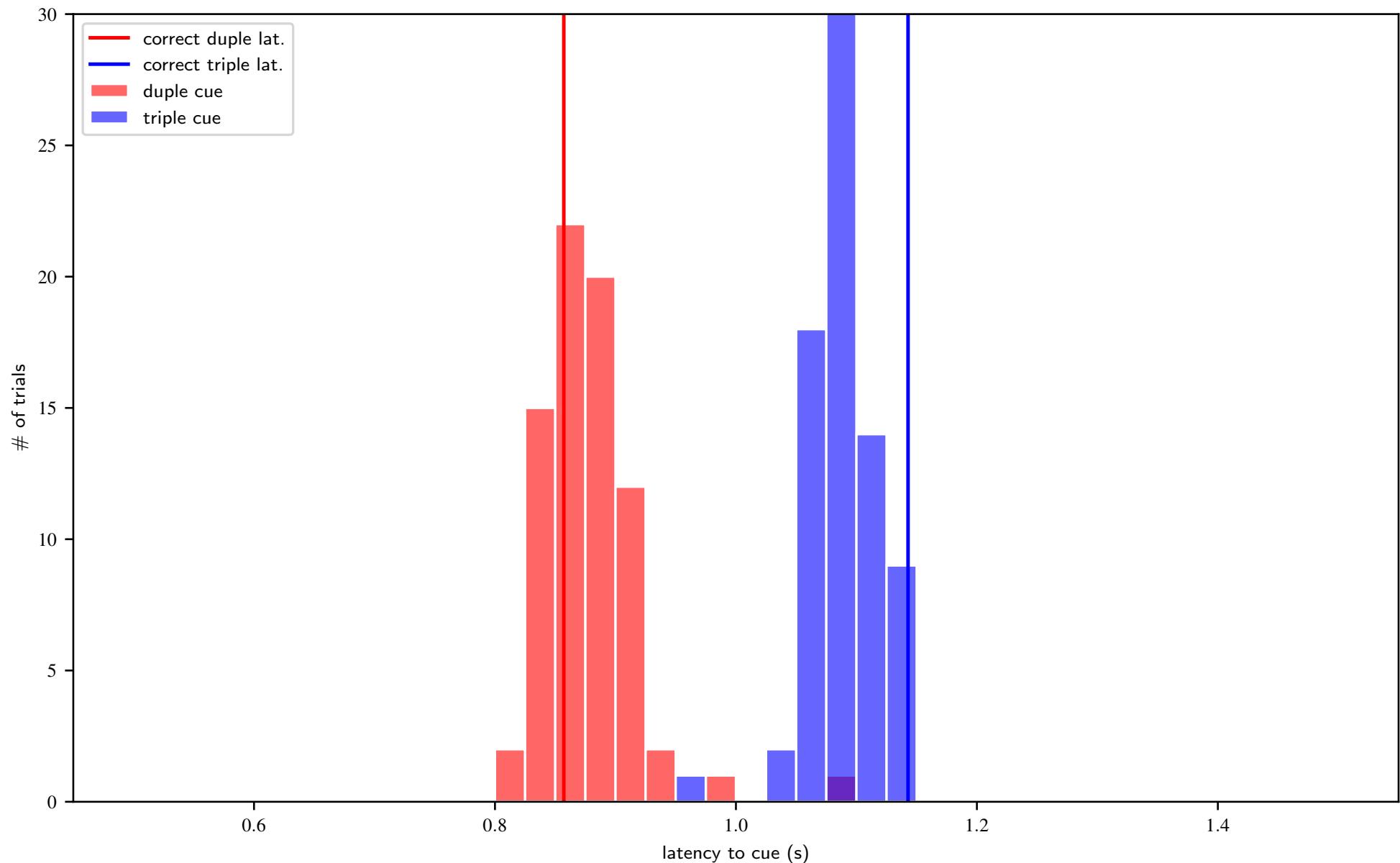
# SO3 — ERP all channels



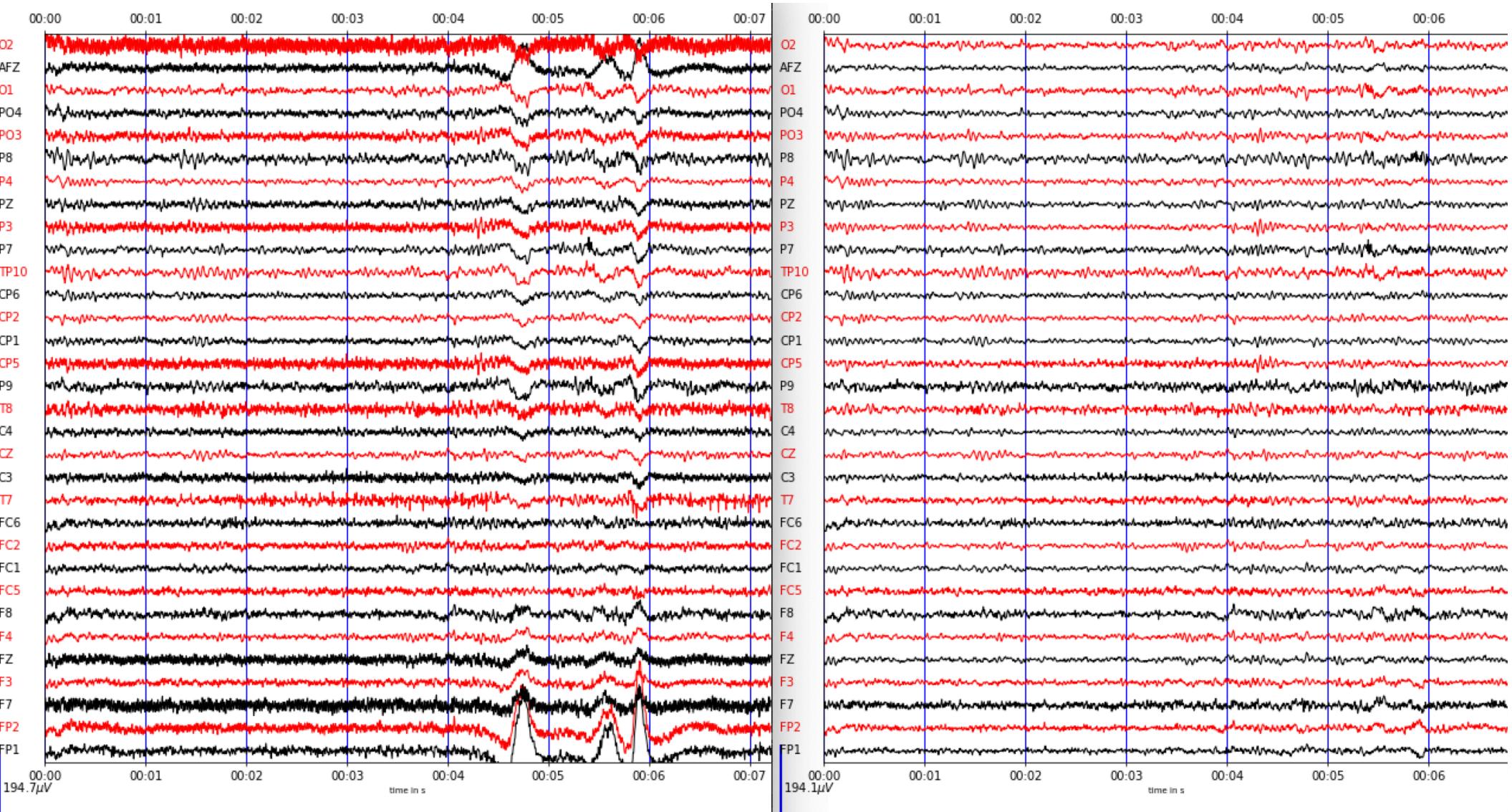
# S03 – ERP CCA



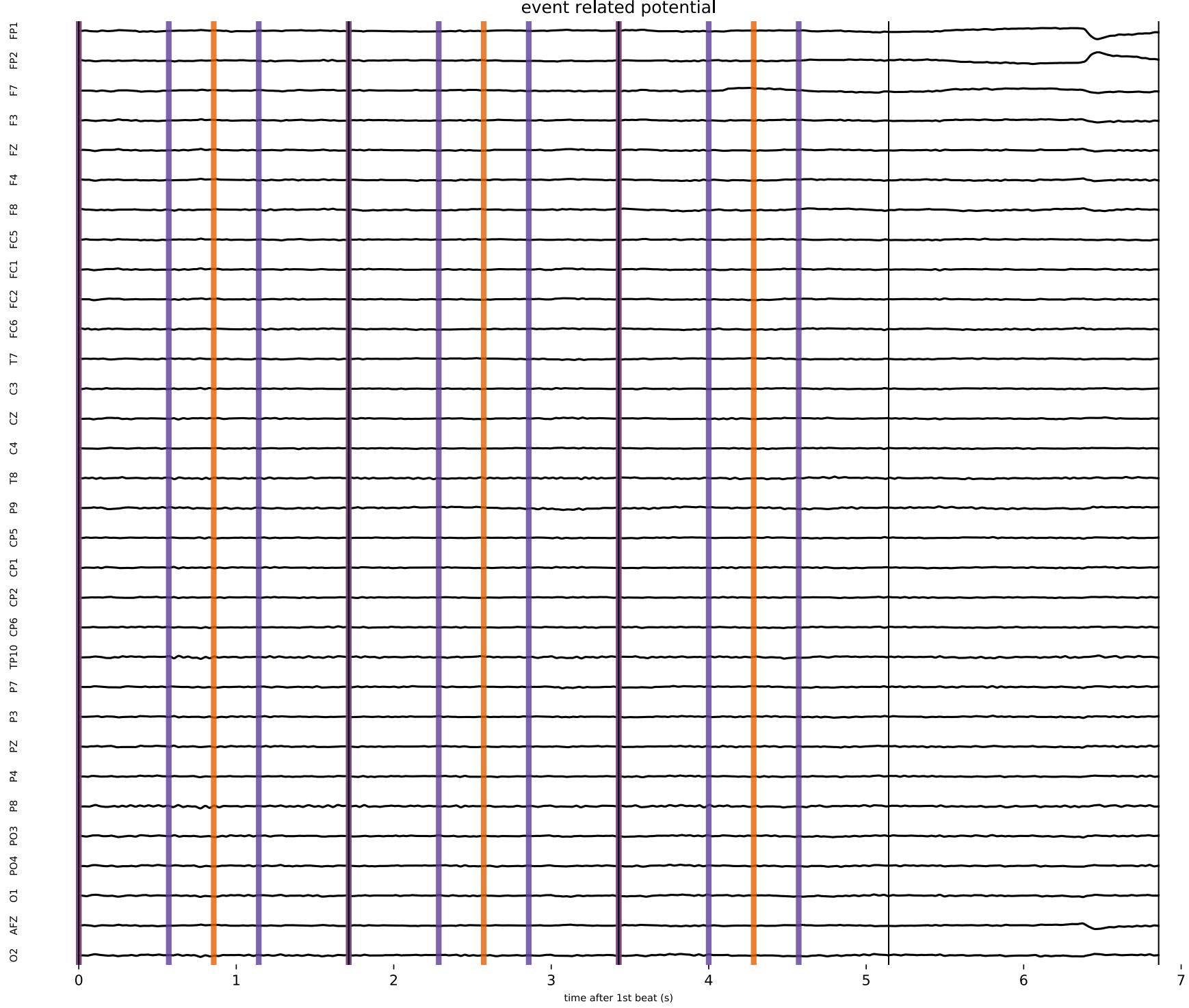
# S04 — Performance



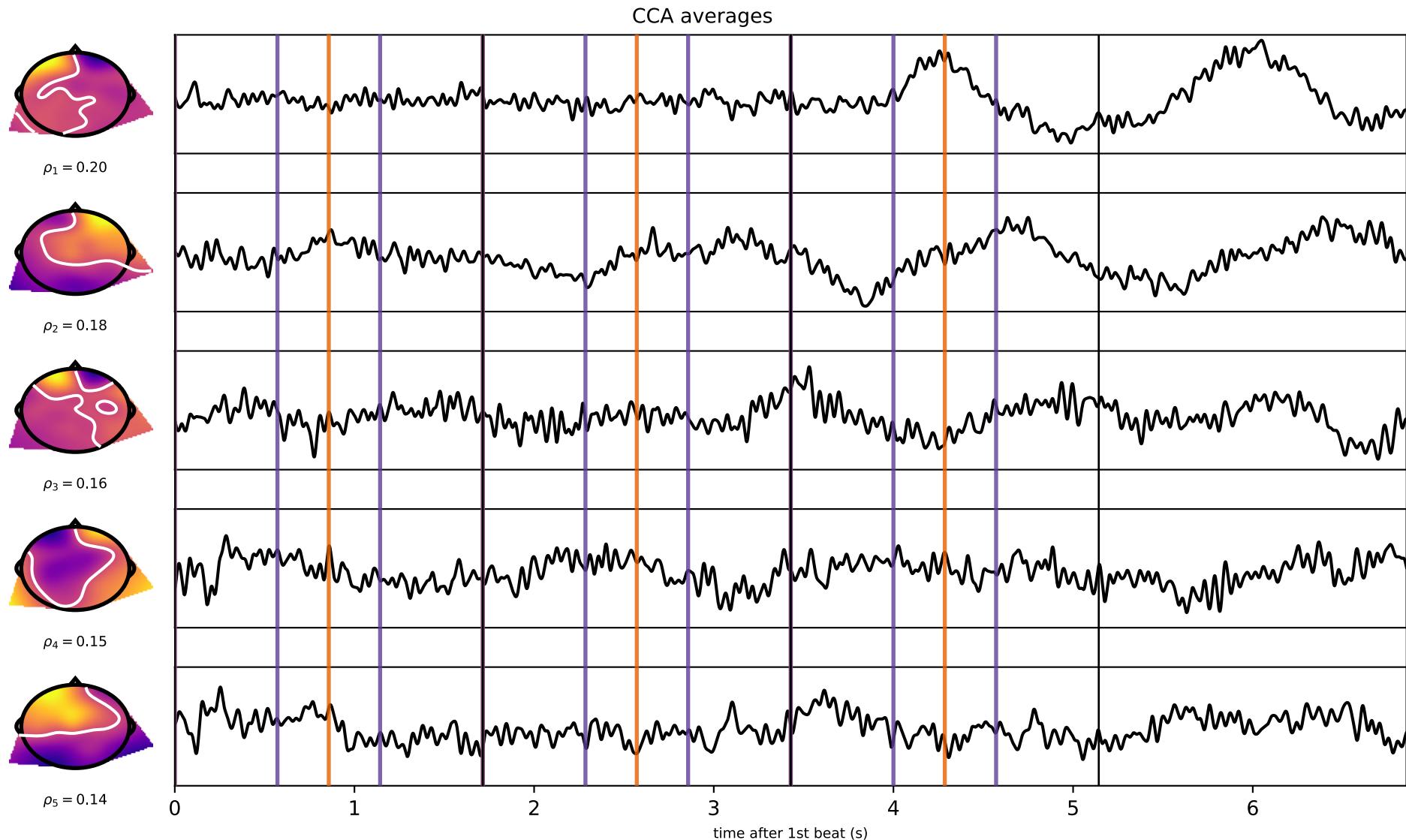
# S04 — Data Cleaning



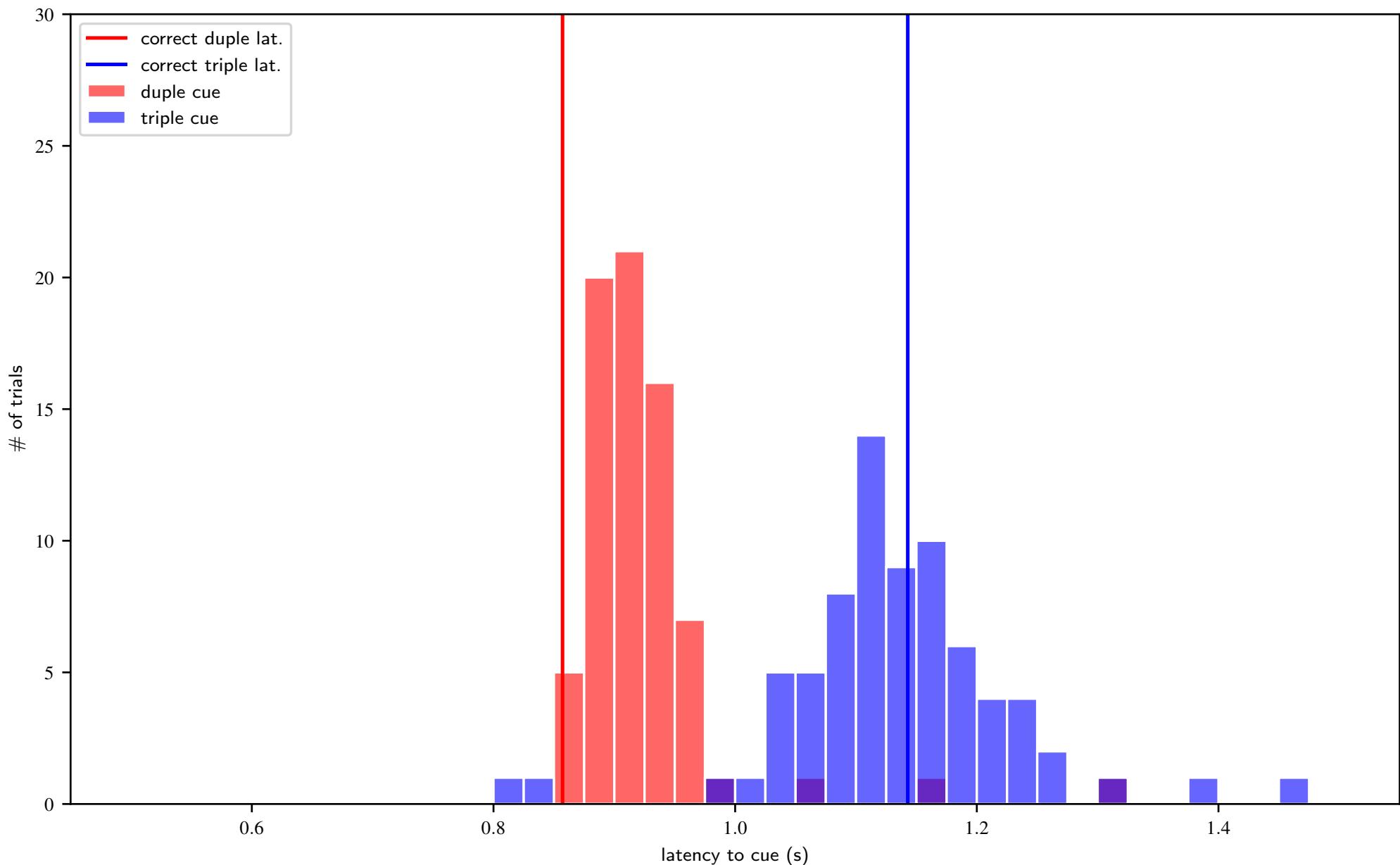
# S04 — ERP all channels



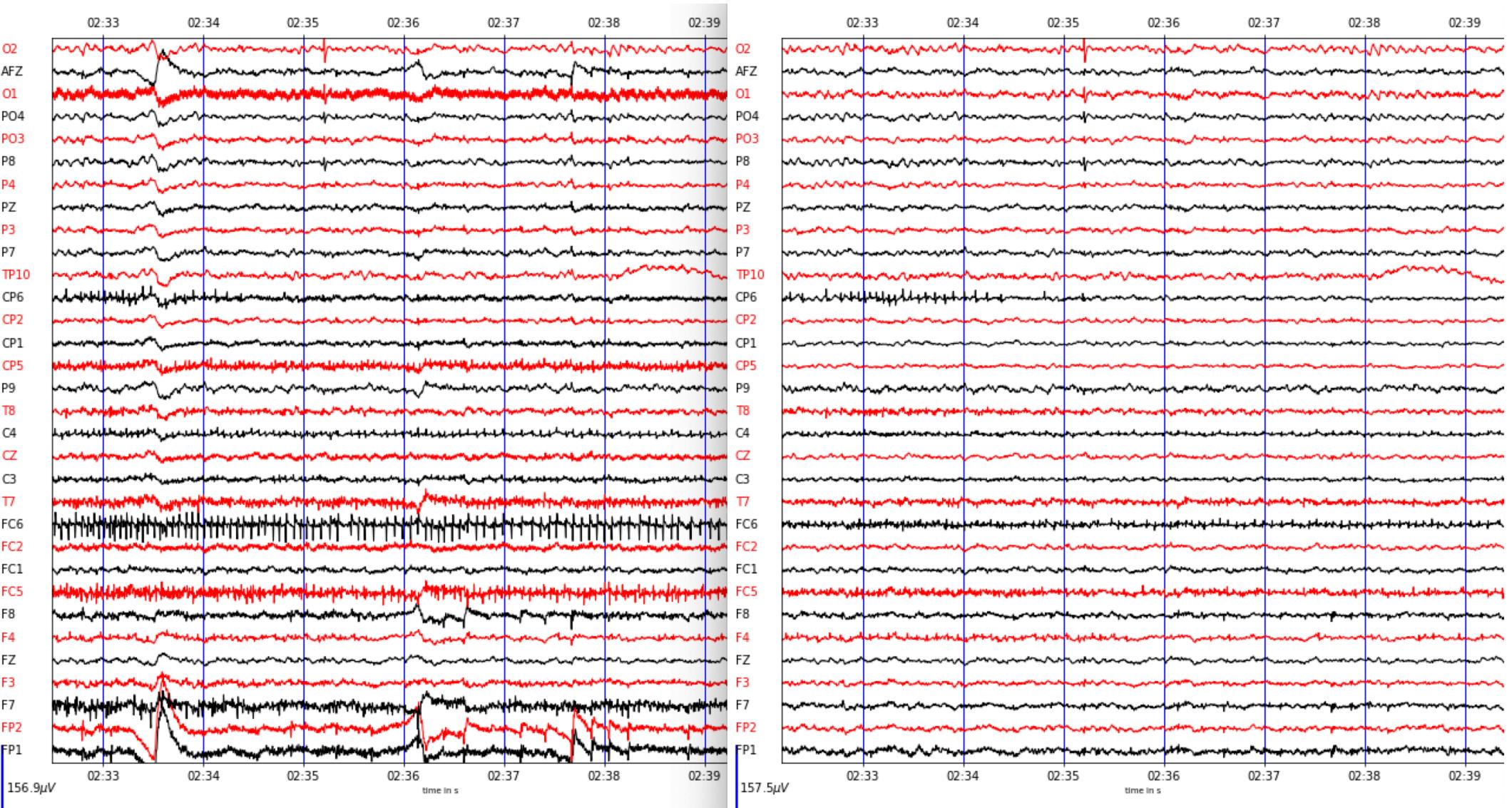
# S04 — ERP CCA



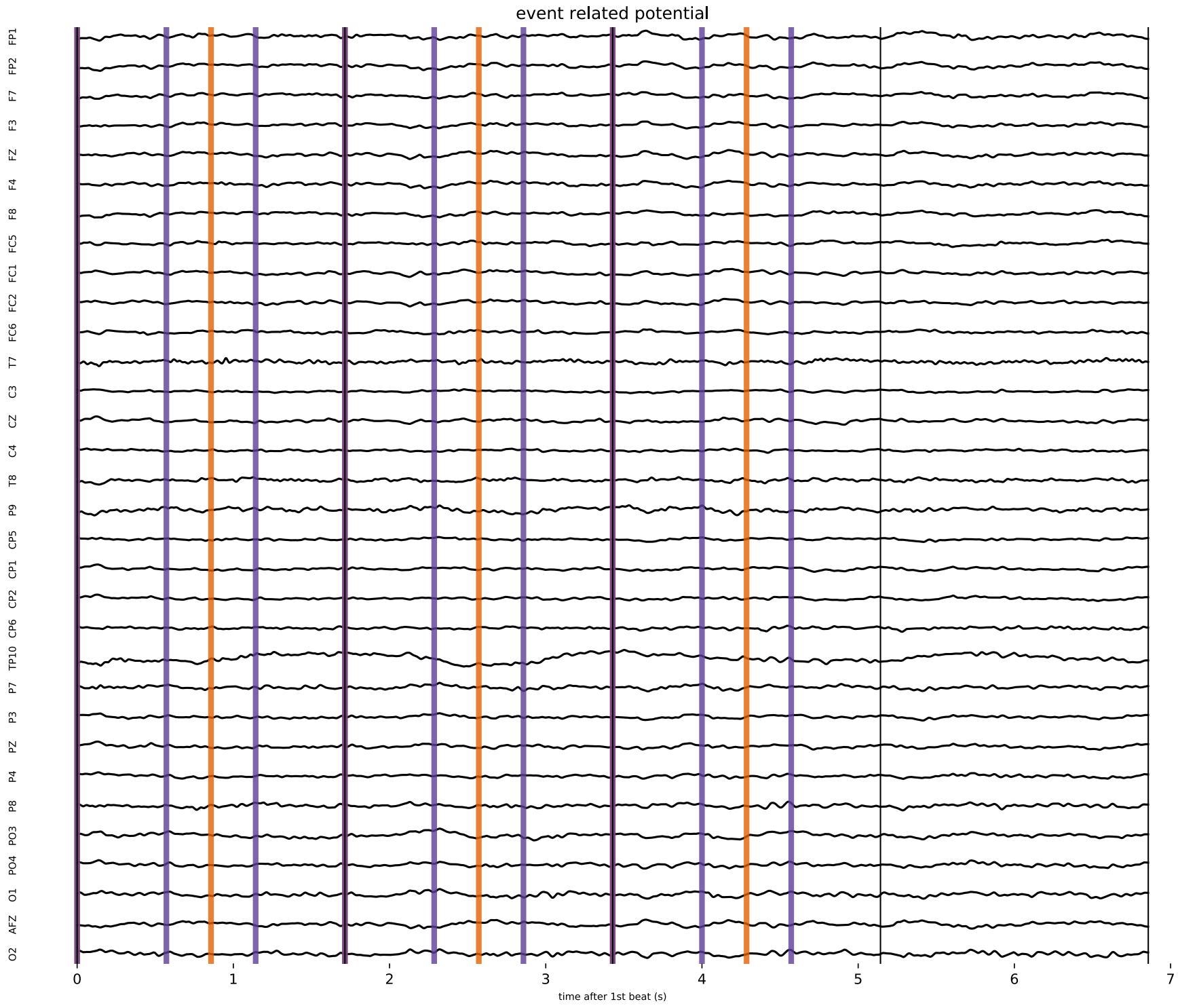
# S05 – Performance



# S05 — Data Cleaning



# S05 – ERP all channels



# S05 – ERP CCA



$\rho_1 = 0.25$



$\rho_2 = 0.24$



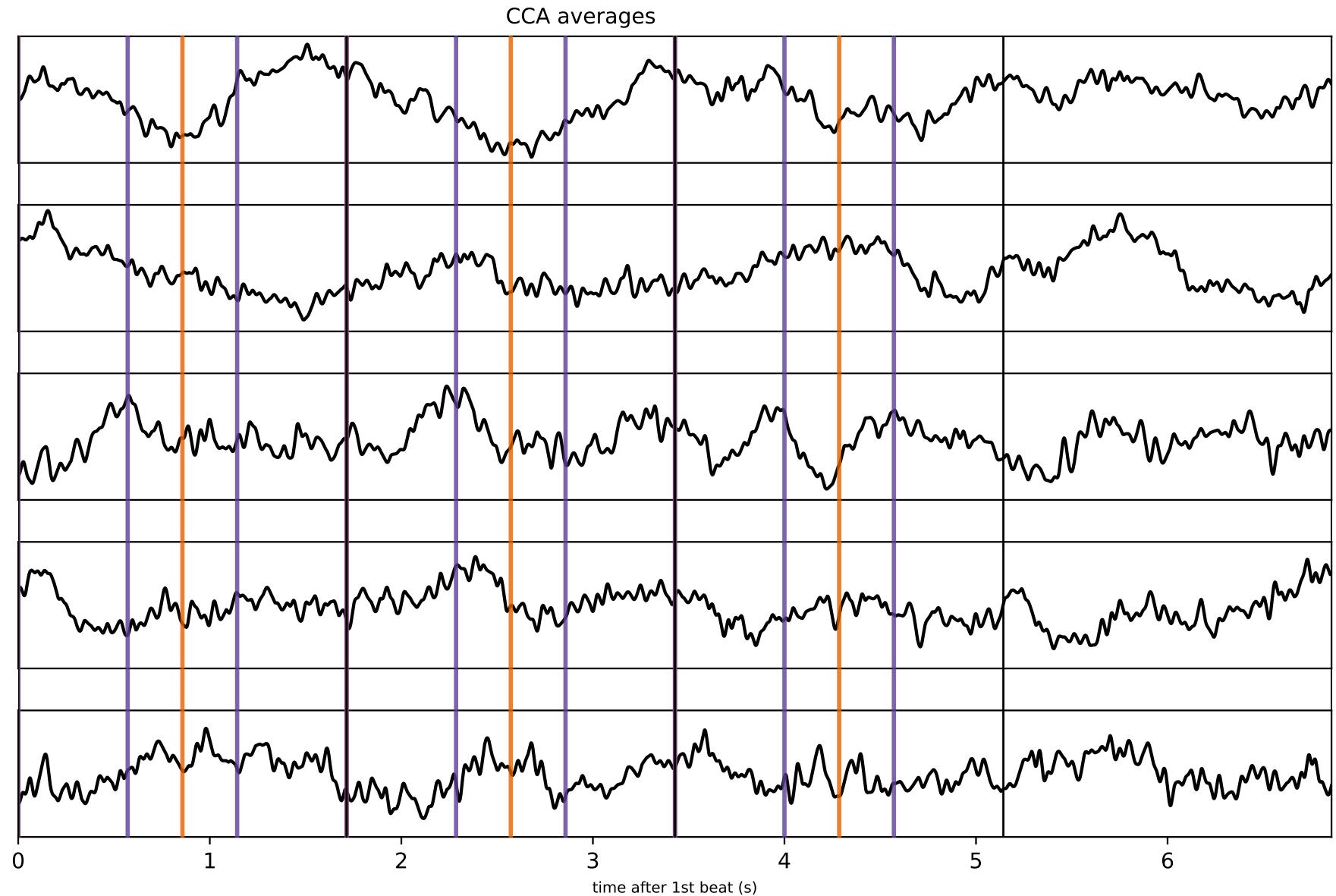
$\rho_3 = 0.21$



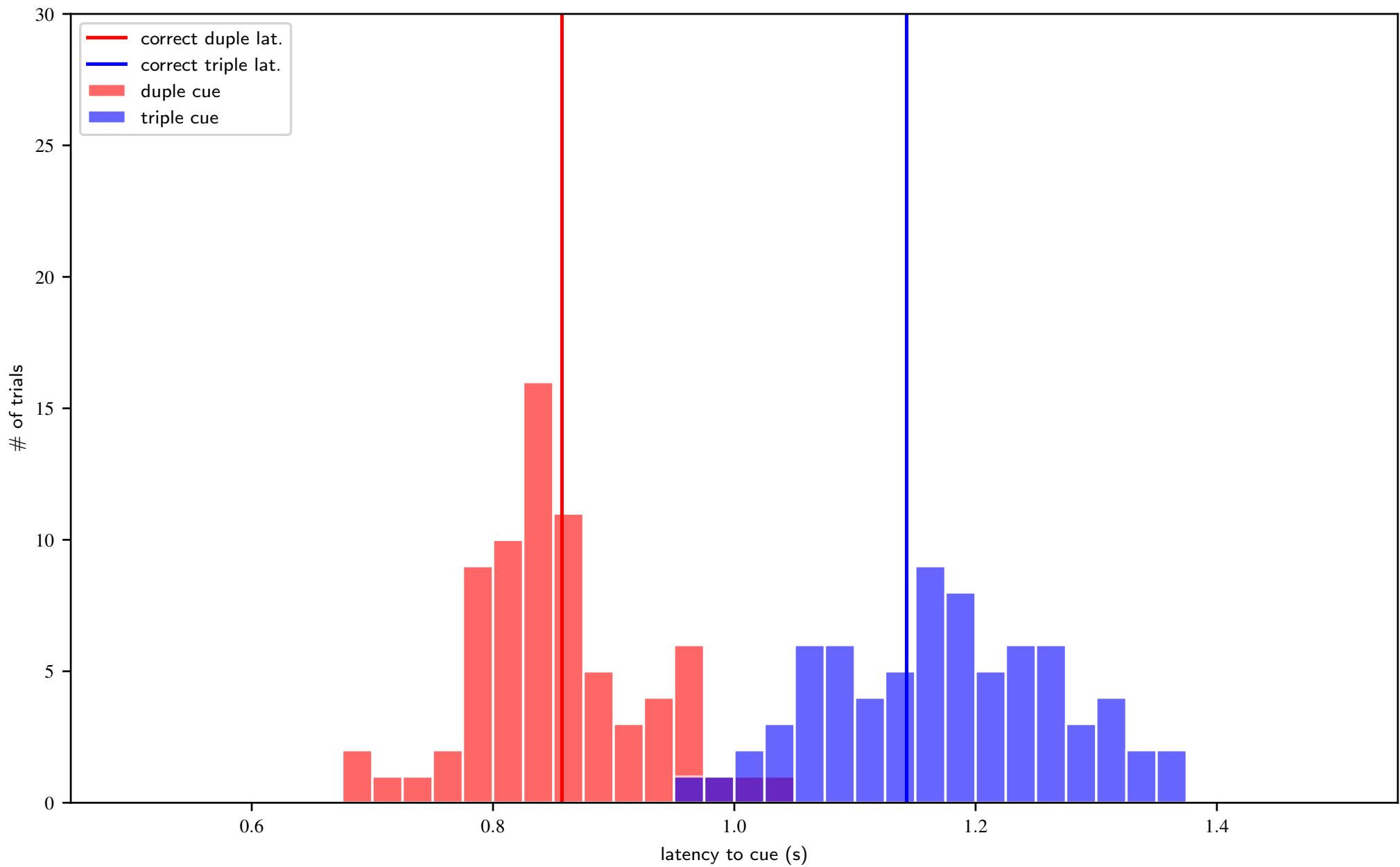
$\rho_4 = 0.19$



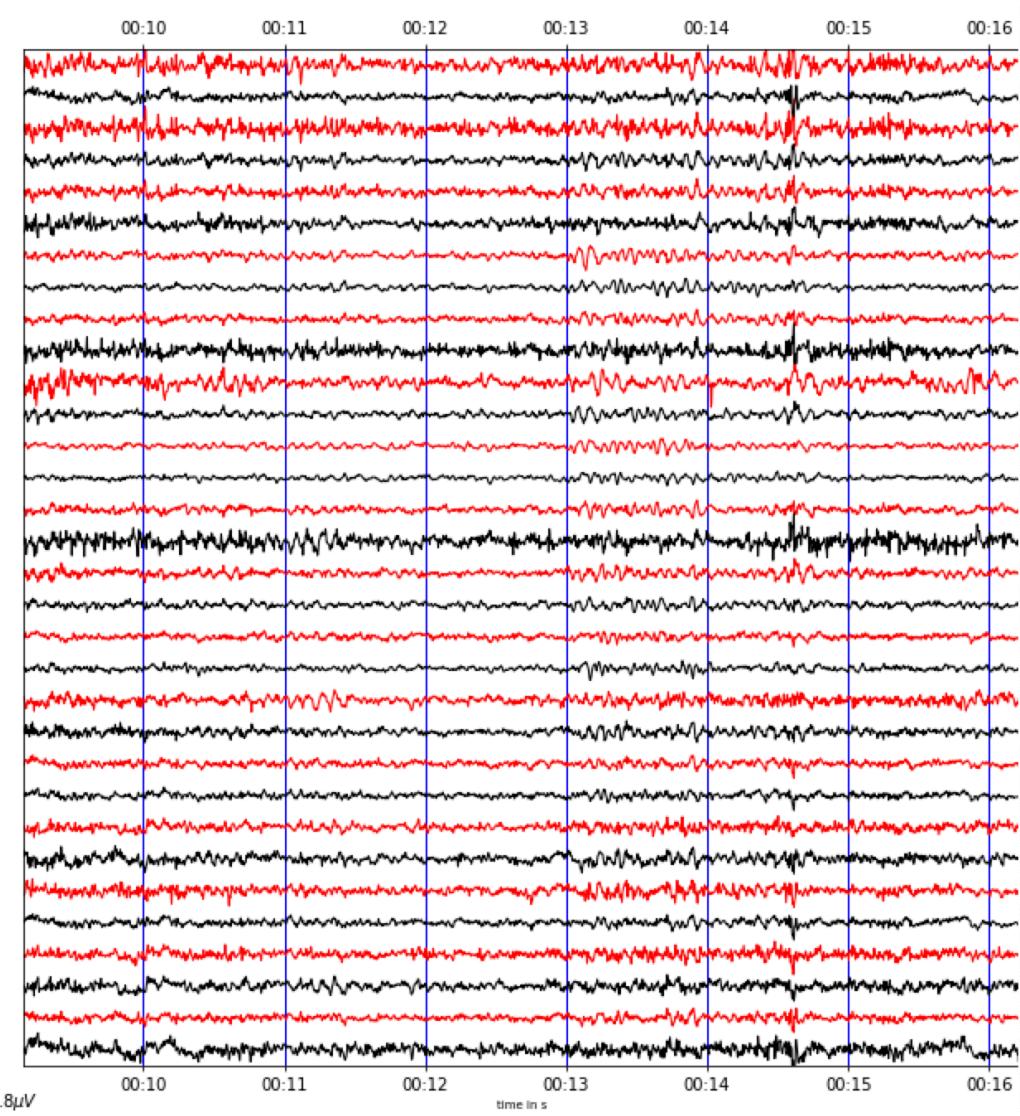
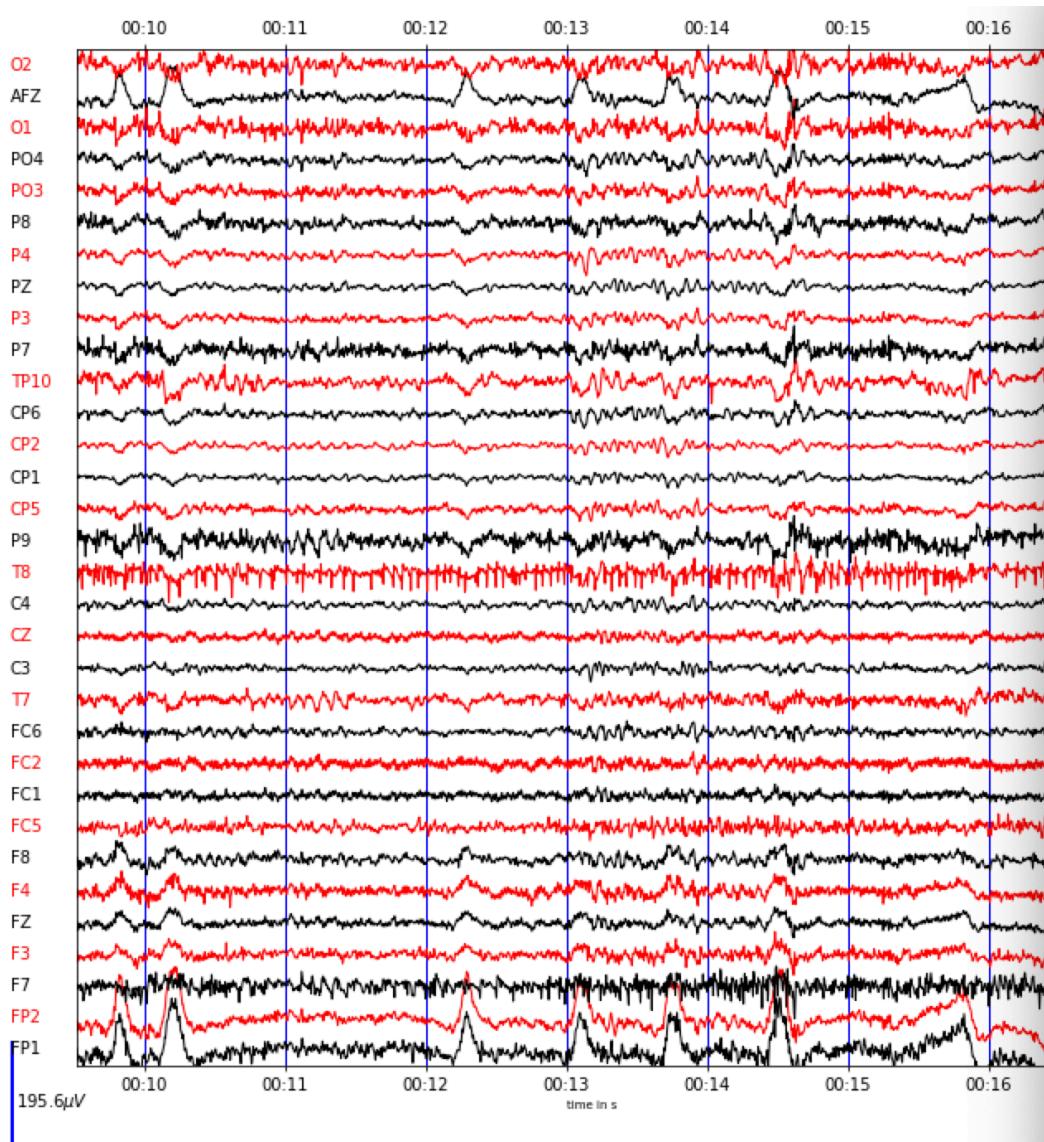
$\rho_5 = 0.19$



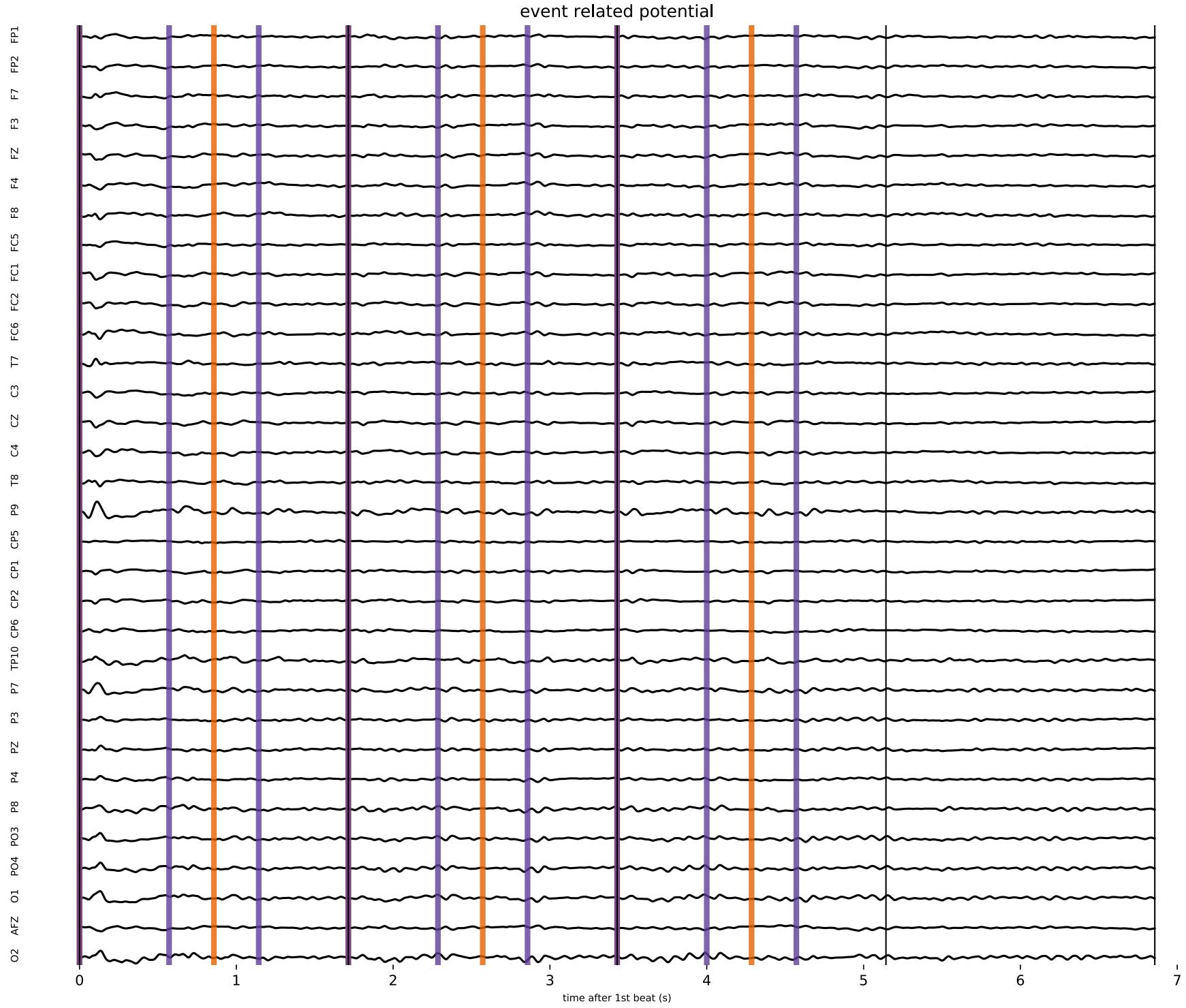
# S06 – Performance



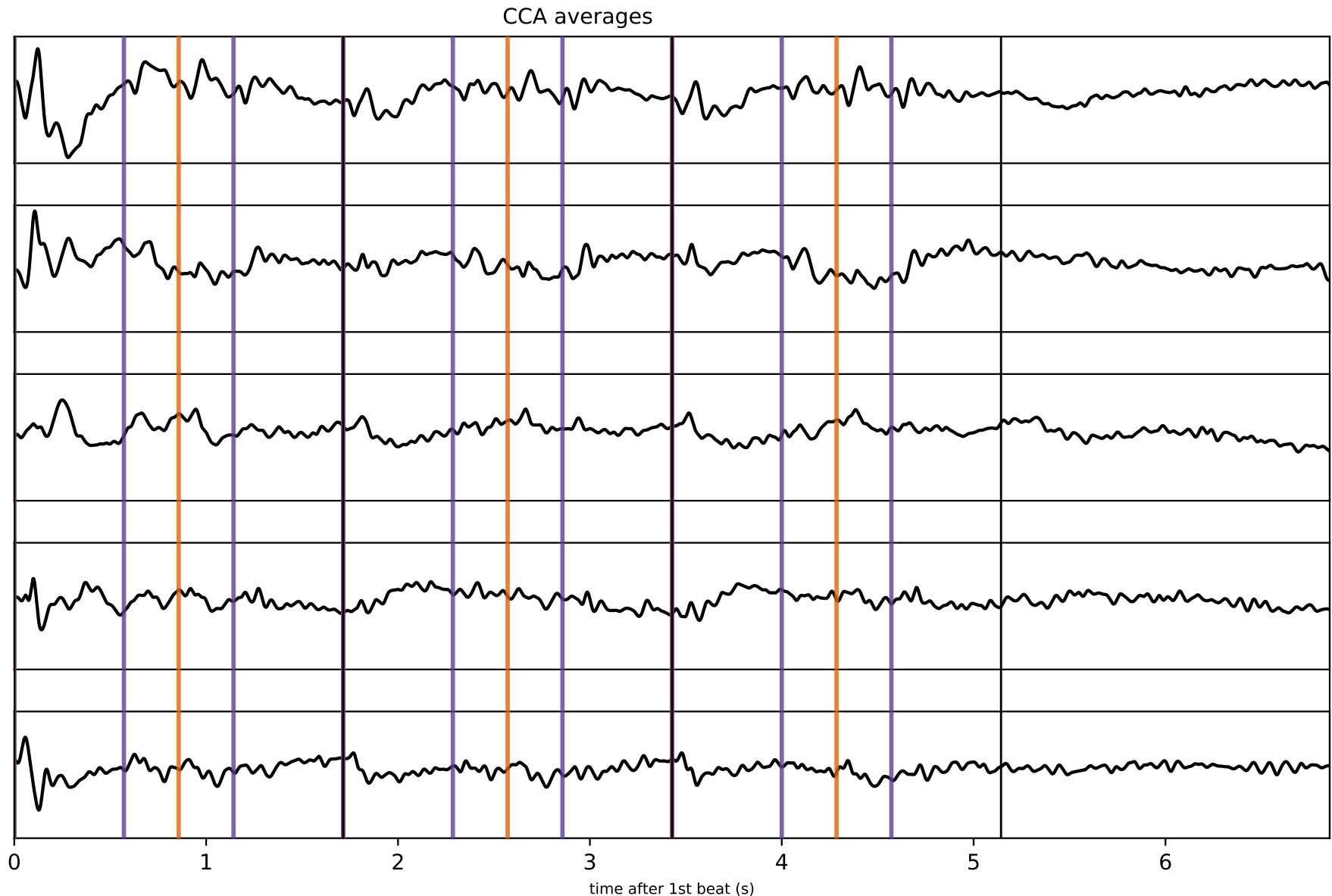
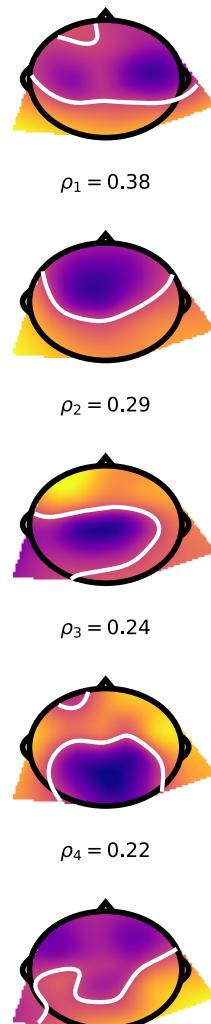
# S06 — Data Cleaning



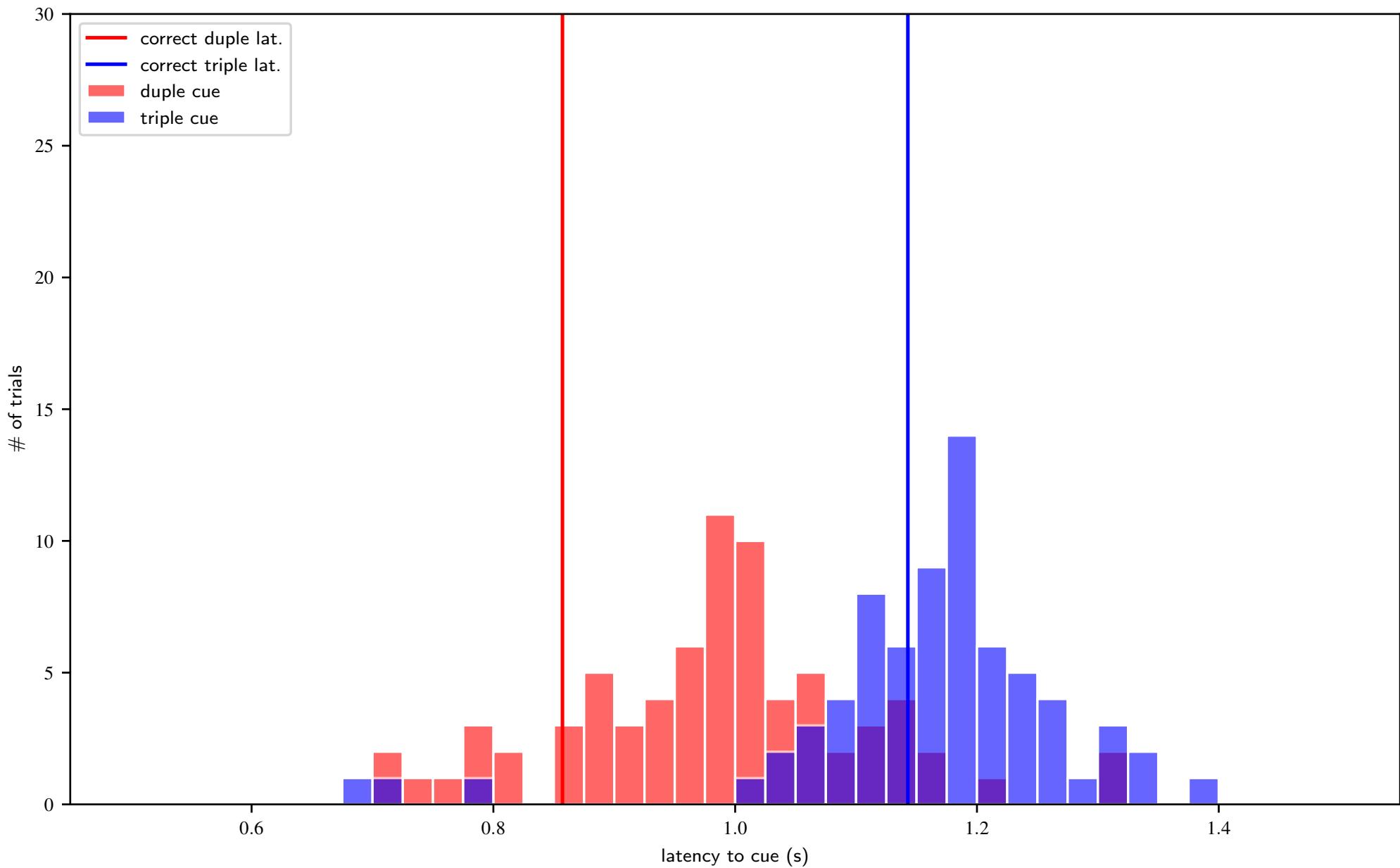
# S06 – ERP all channels



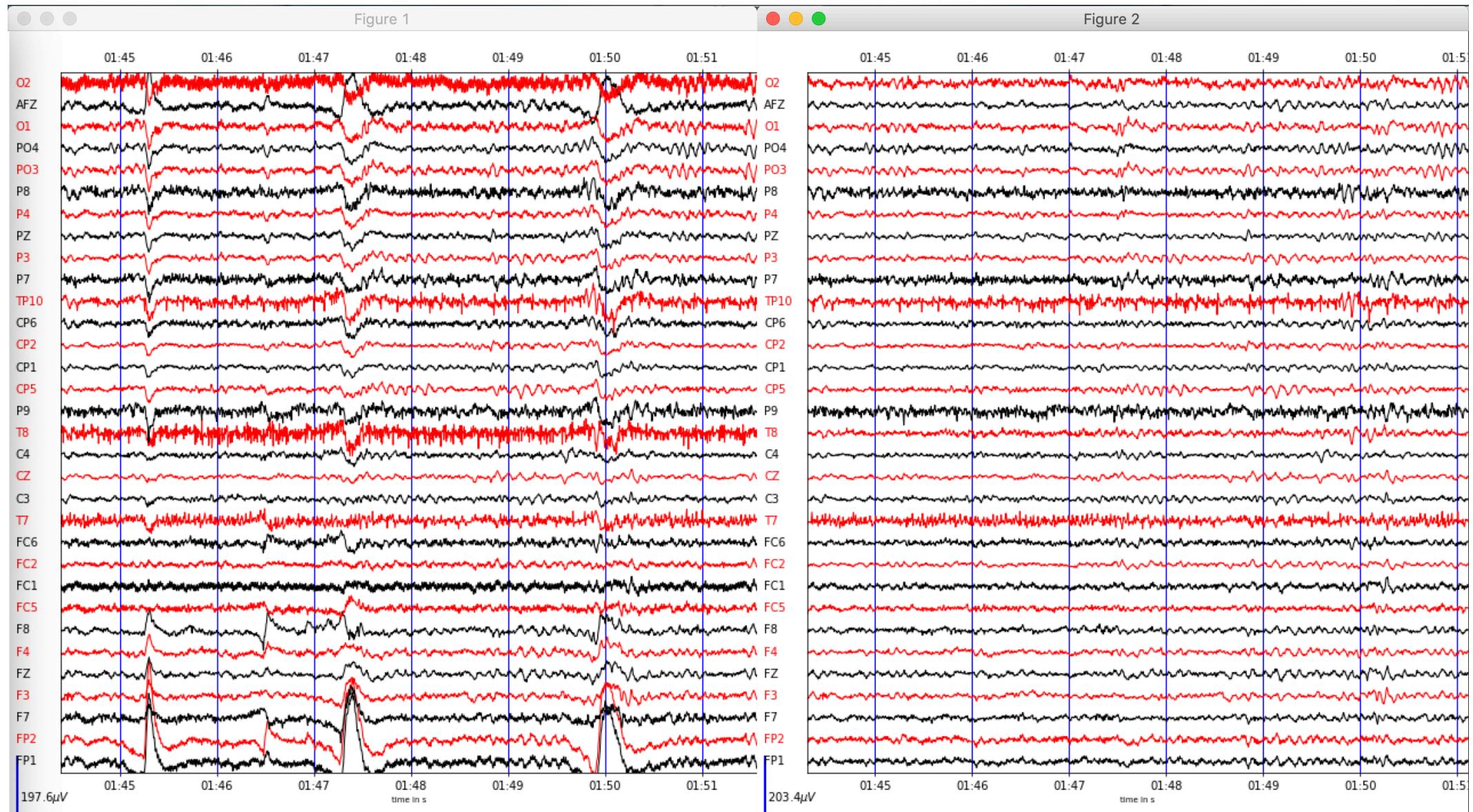
# S06 – ERP CCA



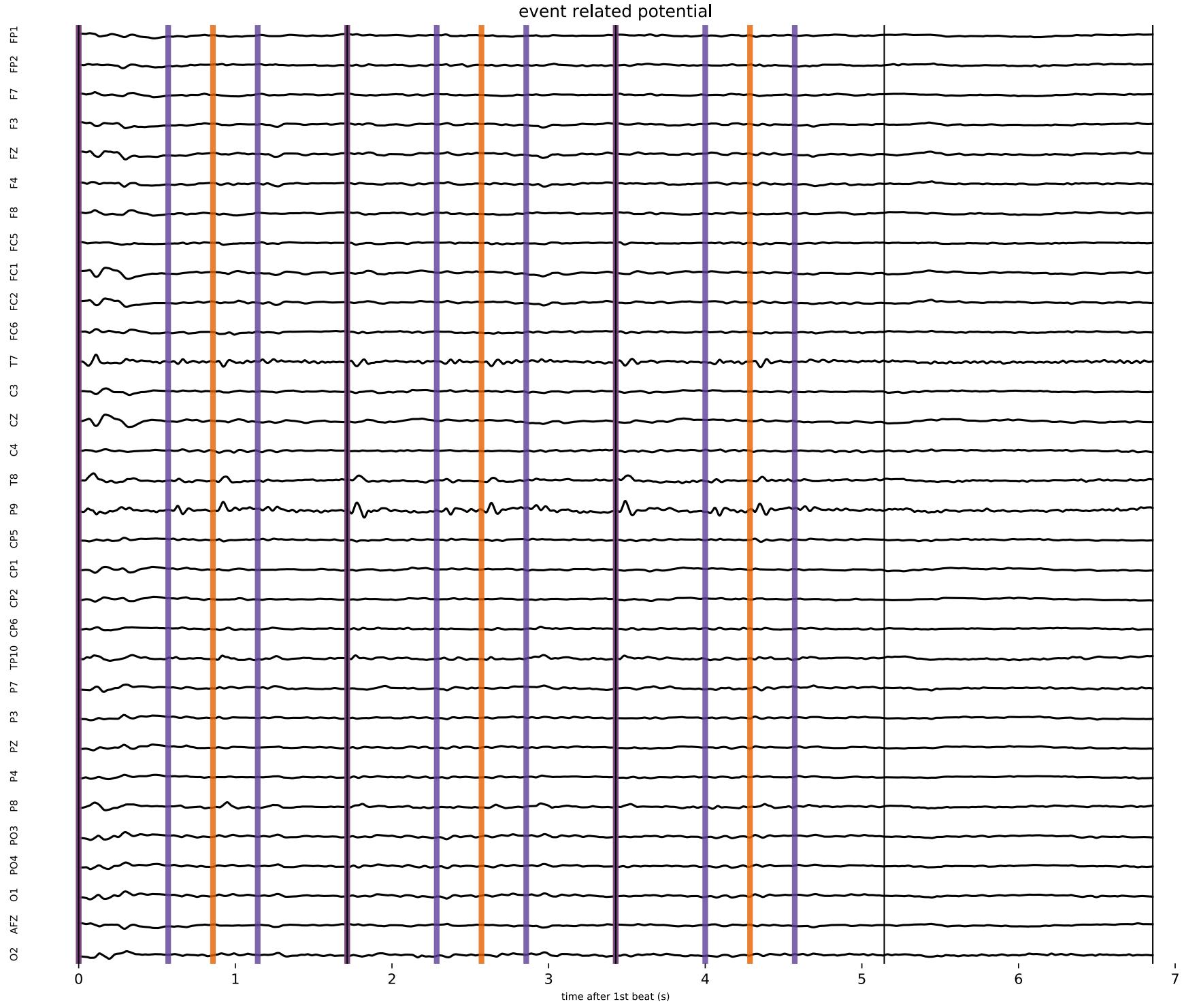
# S07 – Performance



# S07 — Data Cleaning



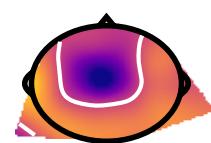
# S07 – ERP all channels



# S07 – ERP CCA



$\rho_1 = 0.32$



$\rho_2 = 0.31$



$\rho_3 = 0.26$

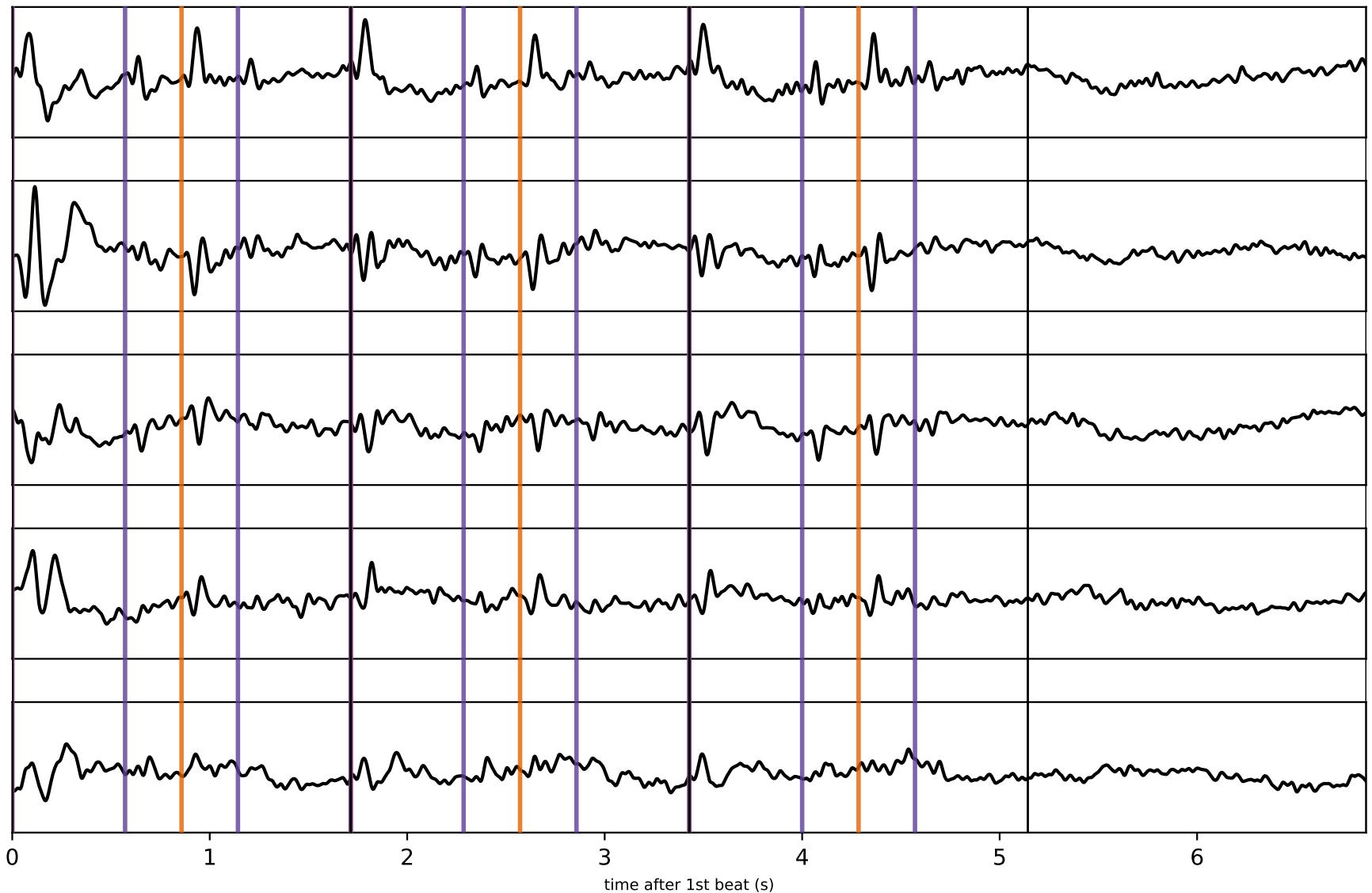


$\rho_4 = 0.24$

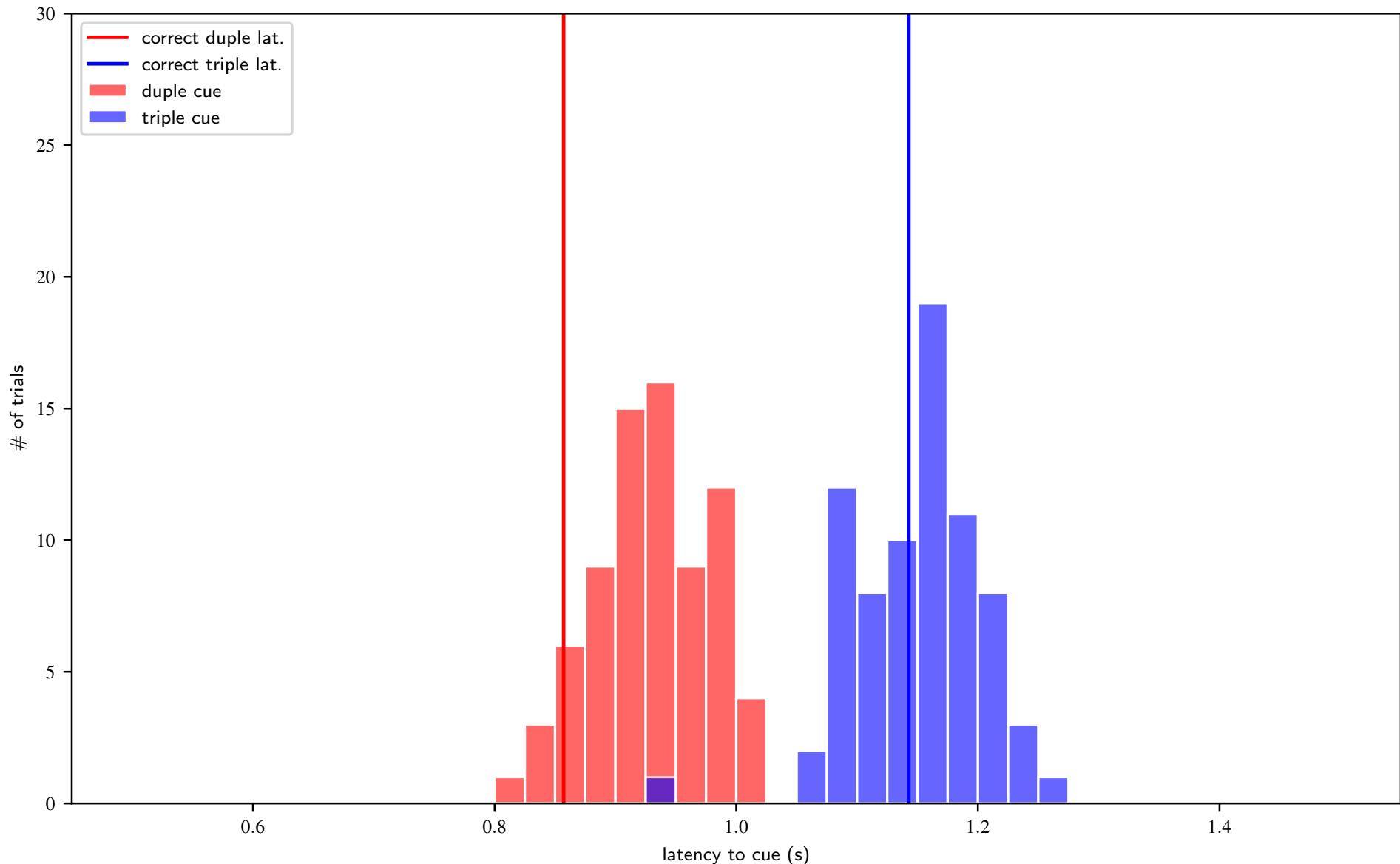


$\rho_5 = 0.22$

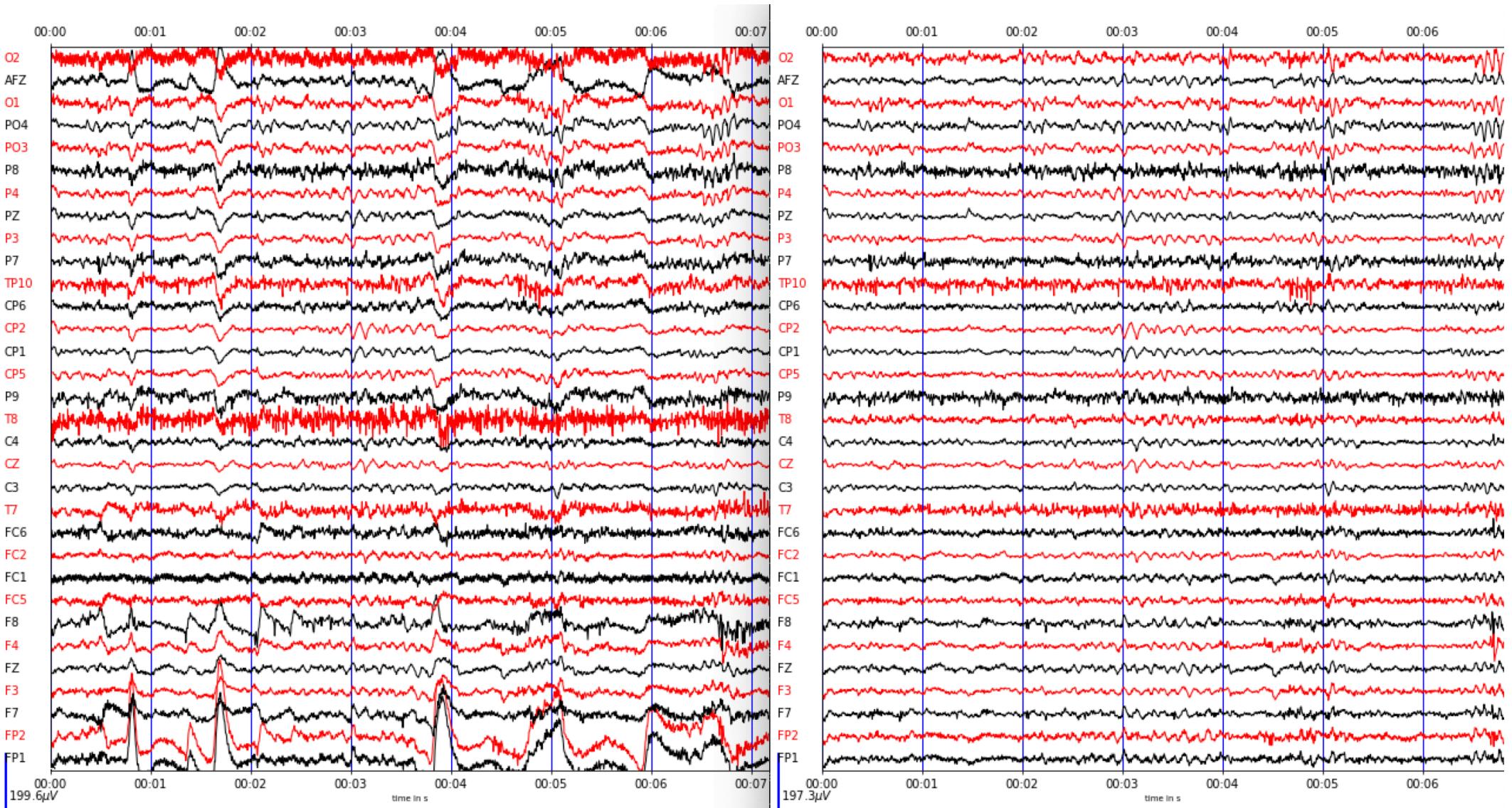
CCA averages



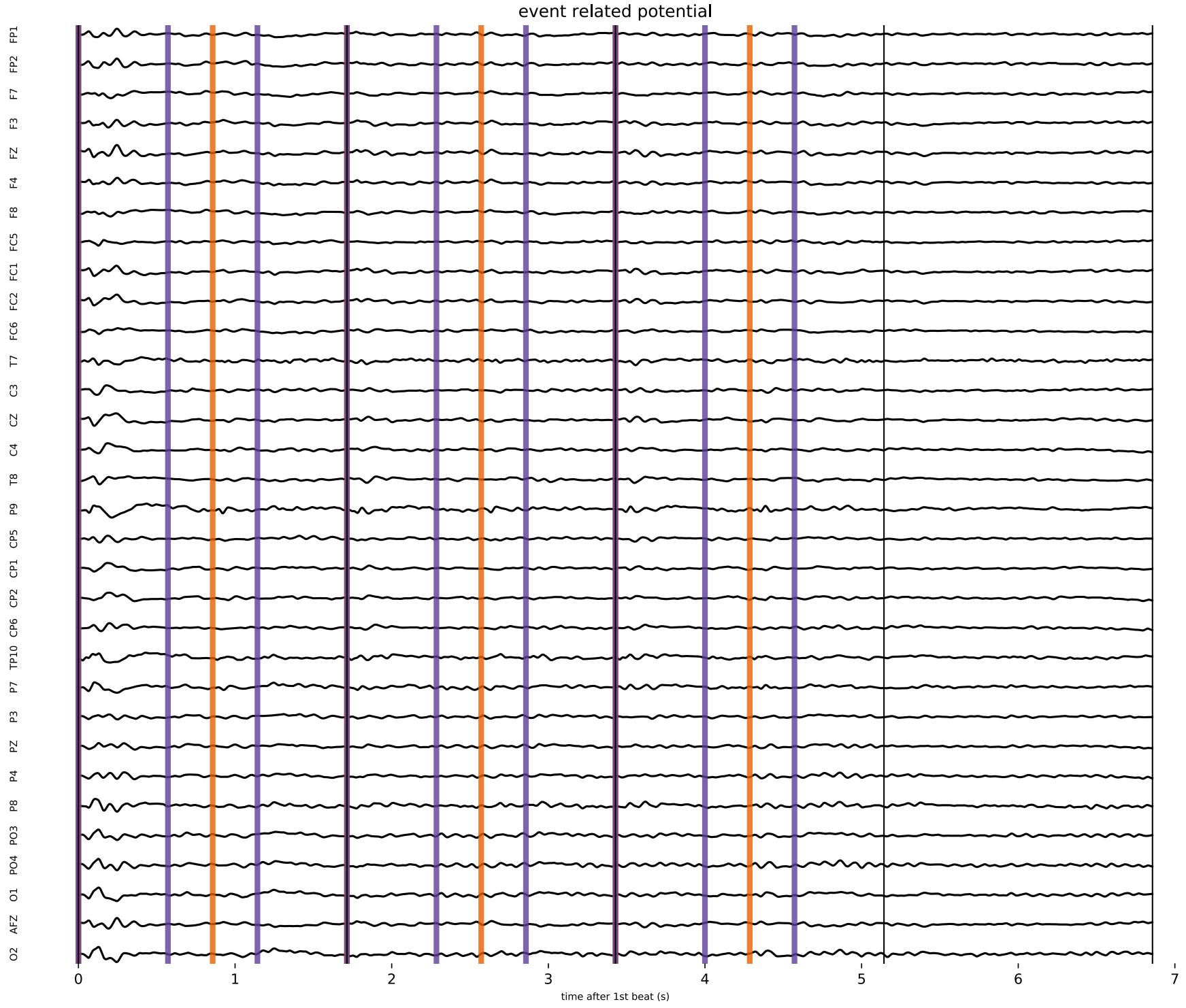
# S08 – Performance



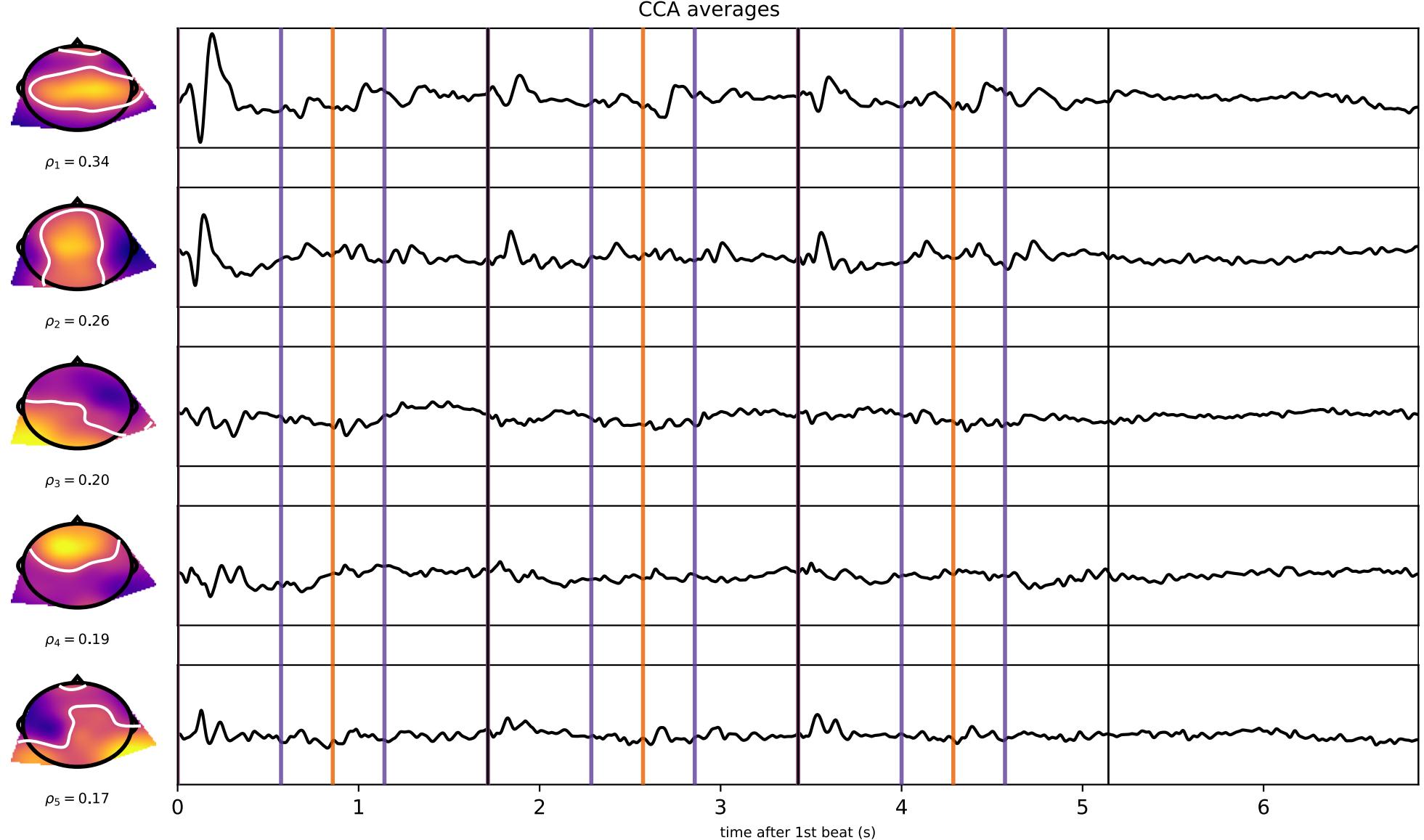
# S08 — Data Cleaning



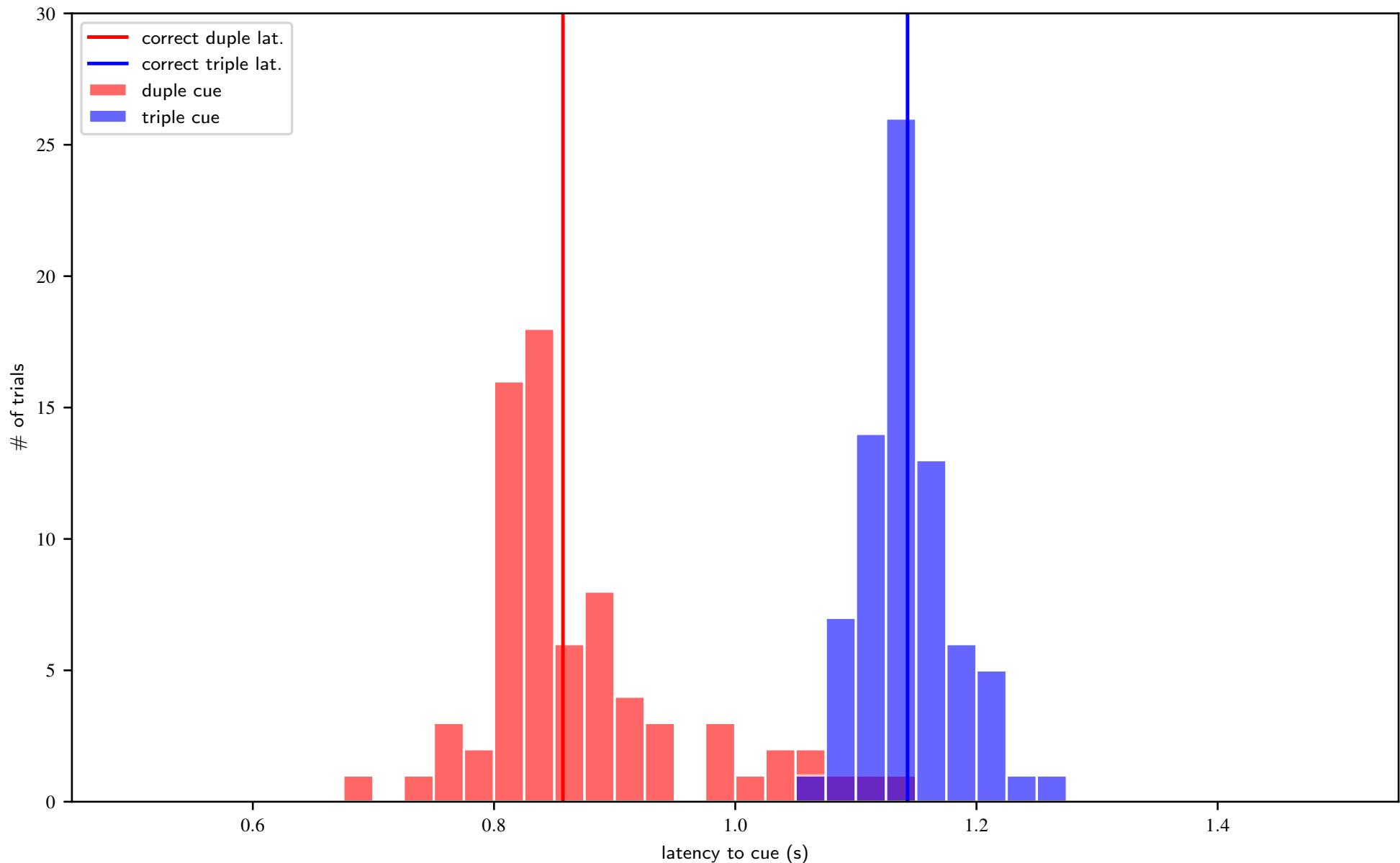
# S08 – ERP all channels



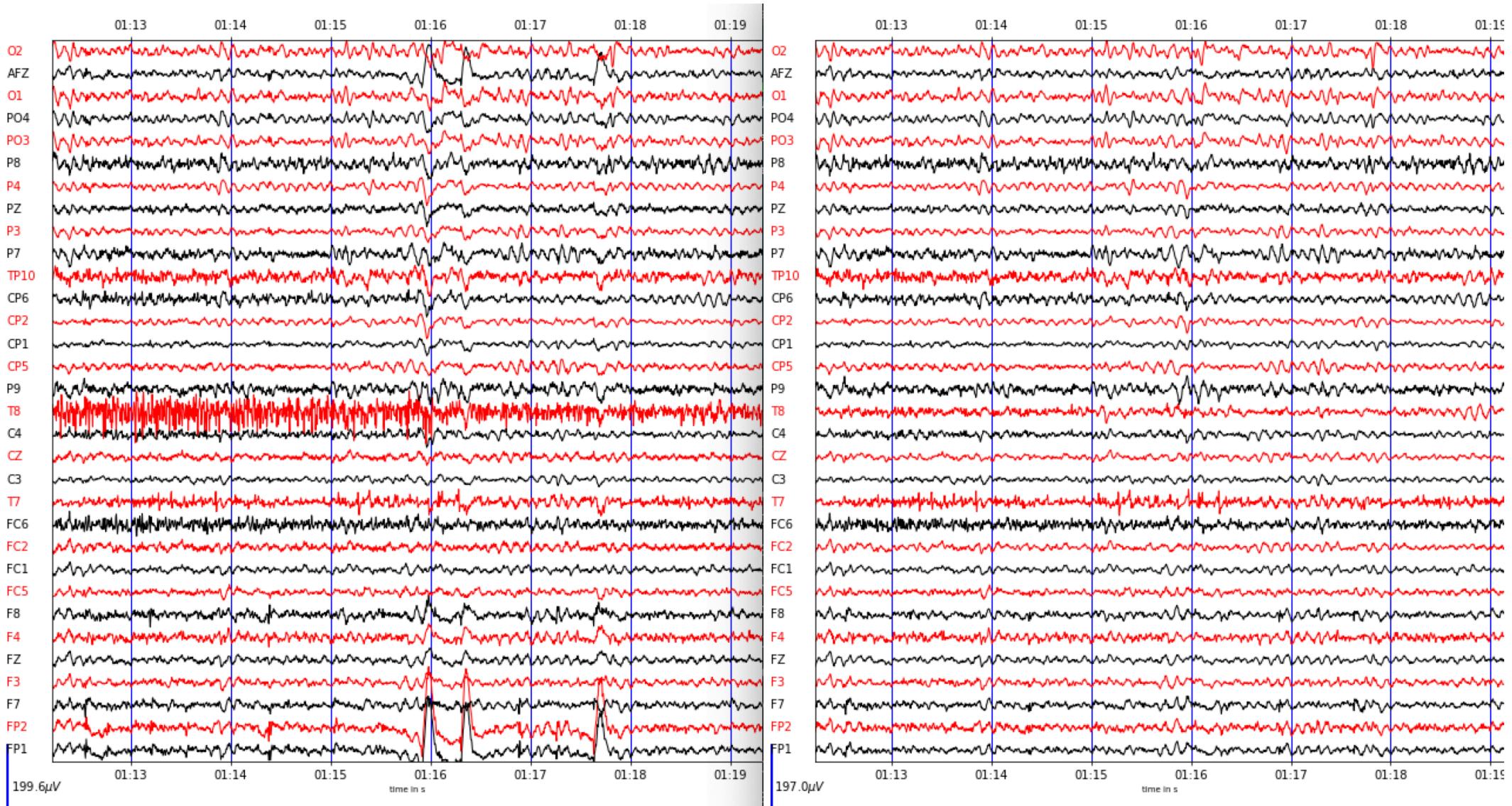
# S08 – ERP CCA



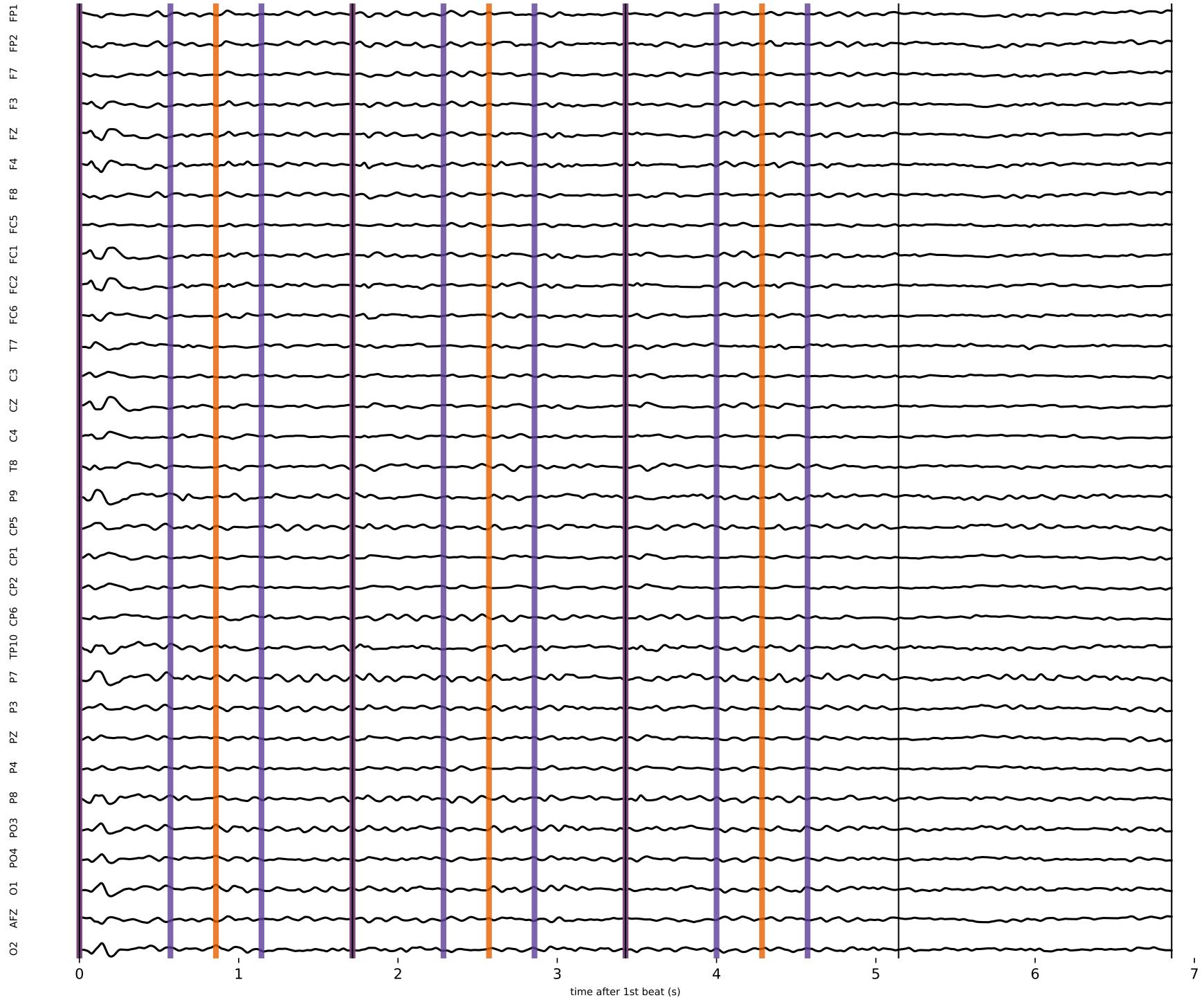
# S09 — Performance



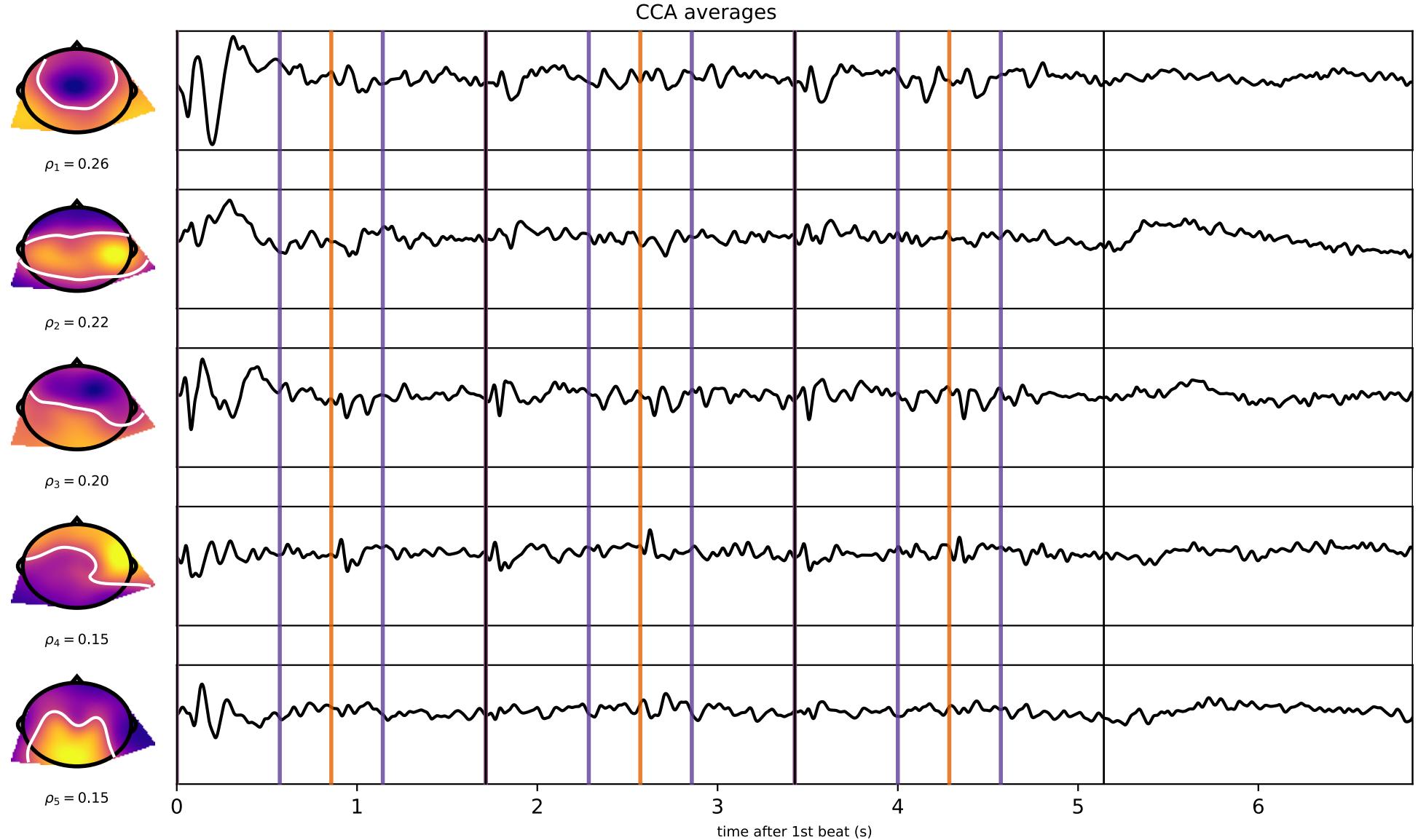
# S09 — Data Cleaning



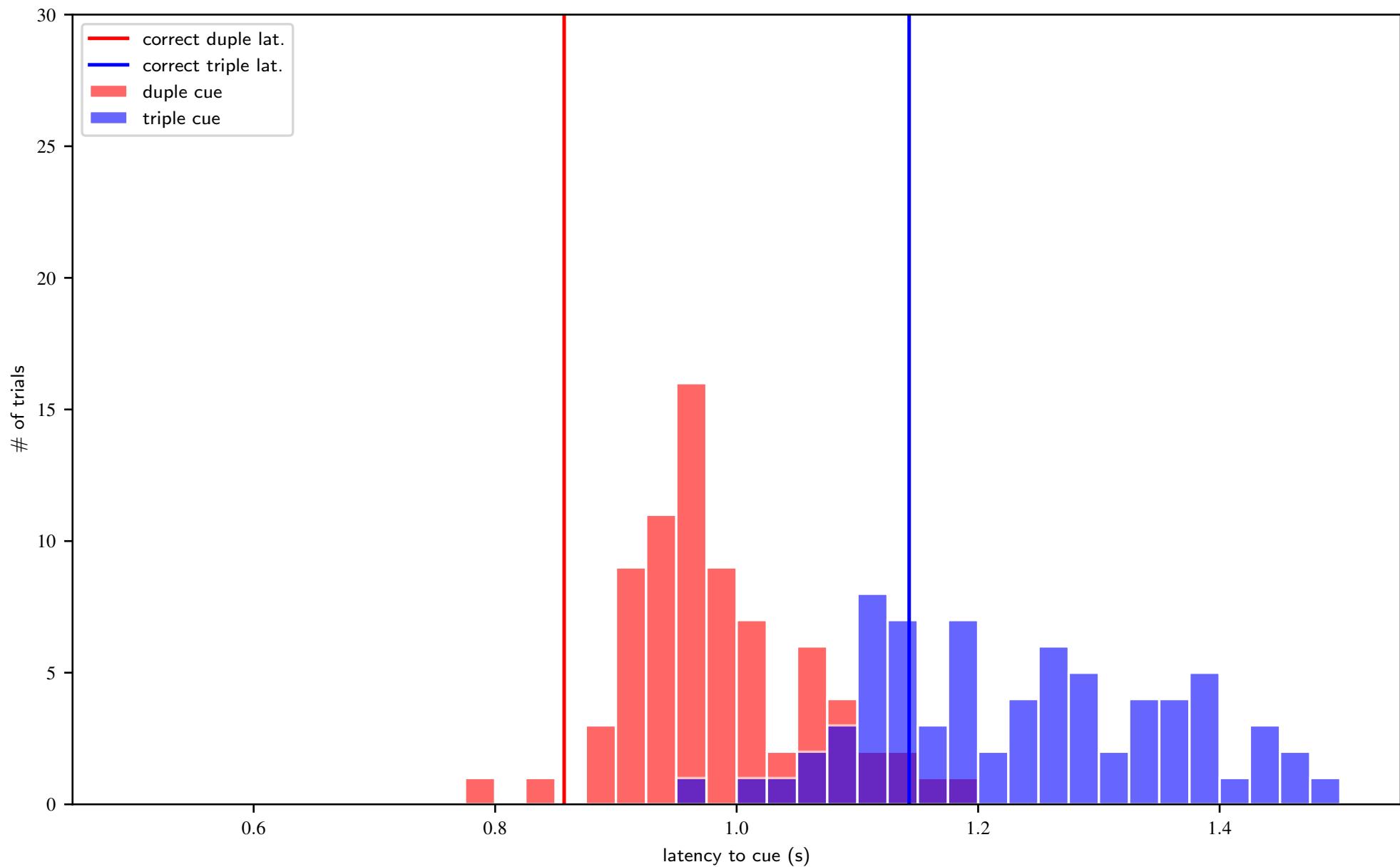
# S09 – ERP all channels



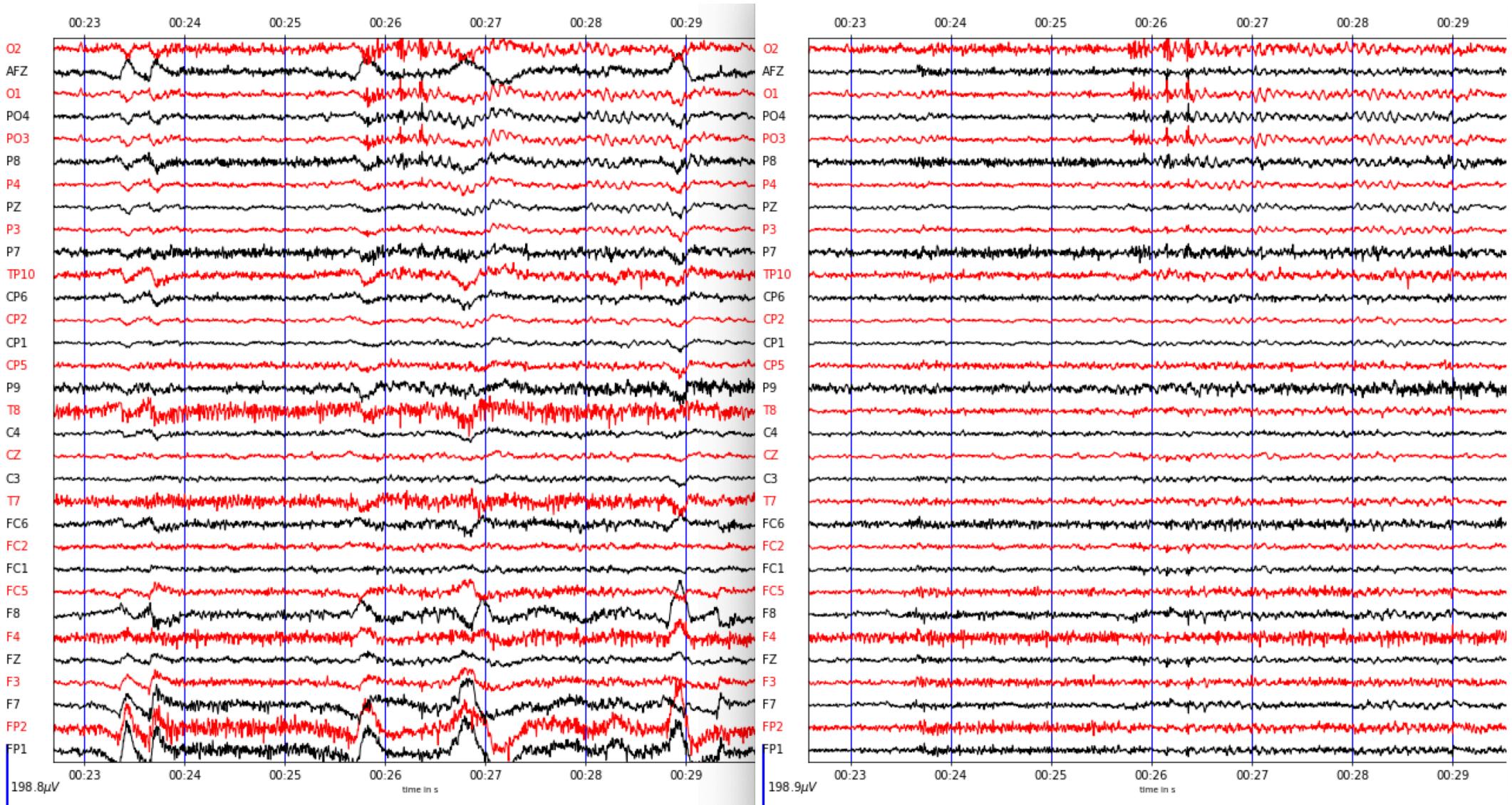
# S09 – ERP CCA



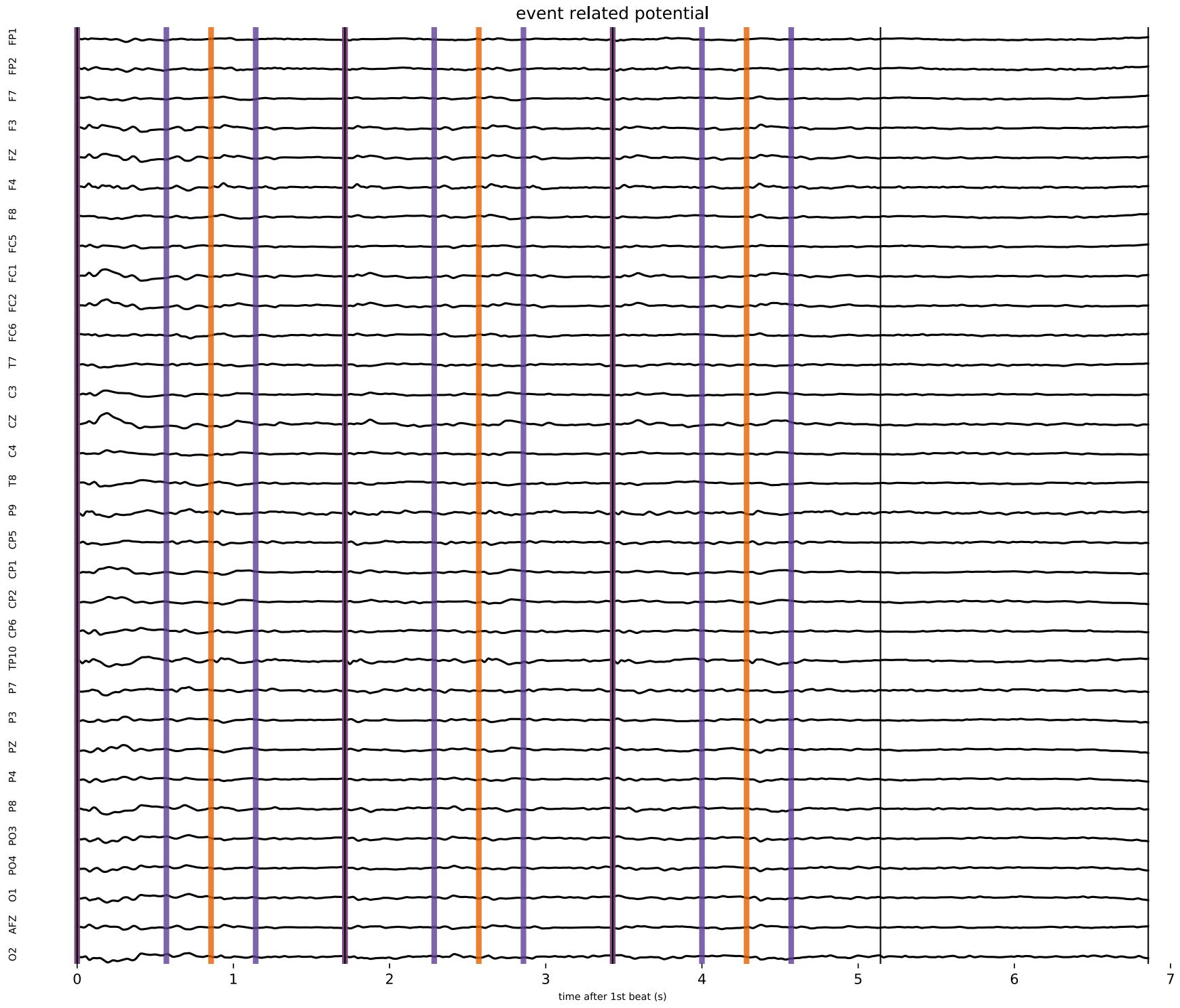
# S10 – Performance



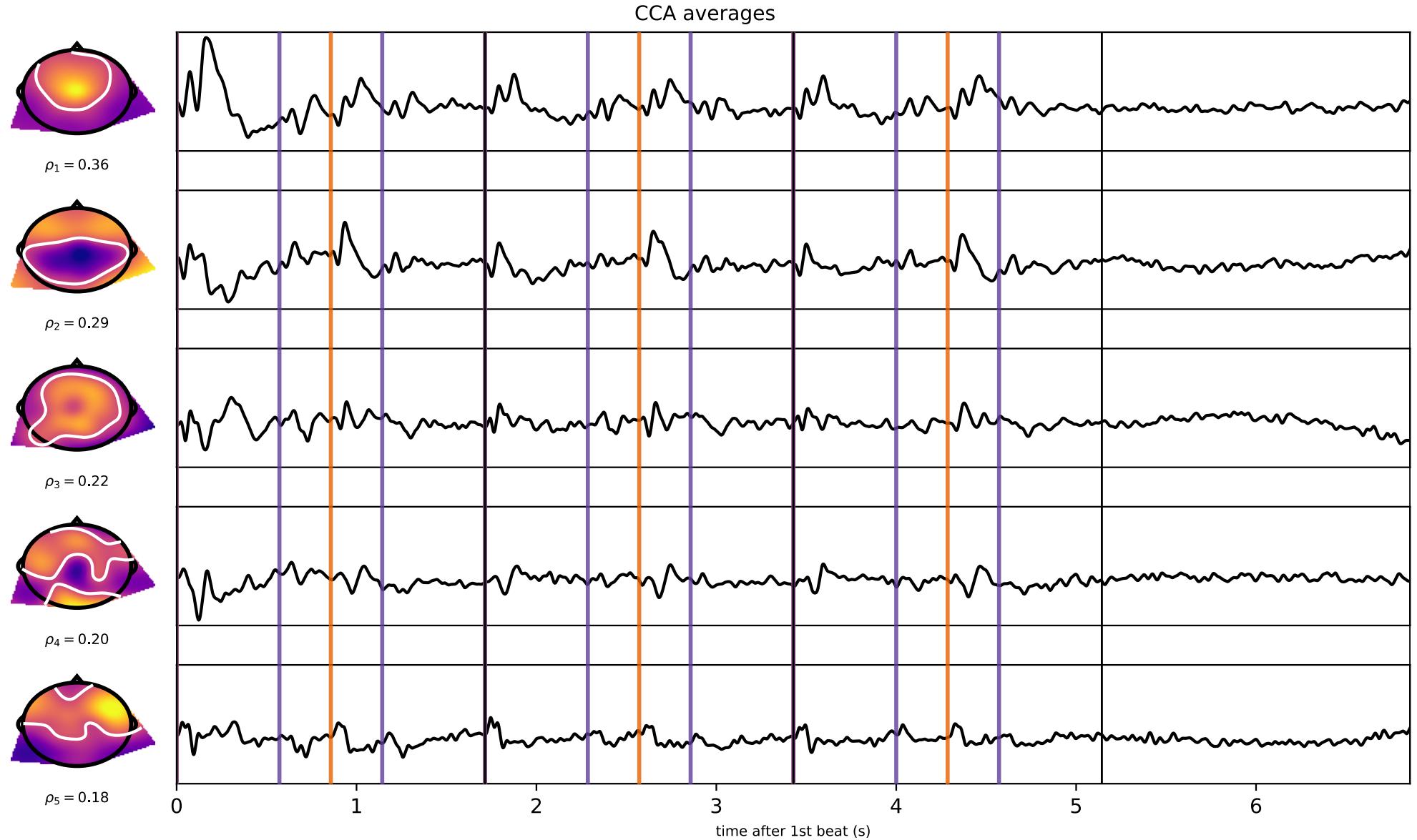
# S10 — Data Cleaning



# S10 – ERP all channels

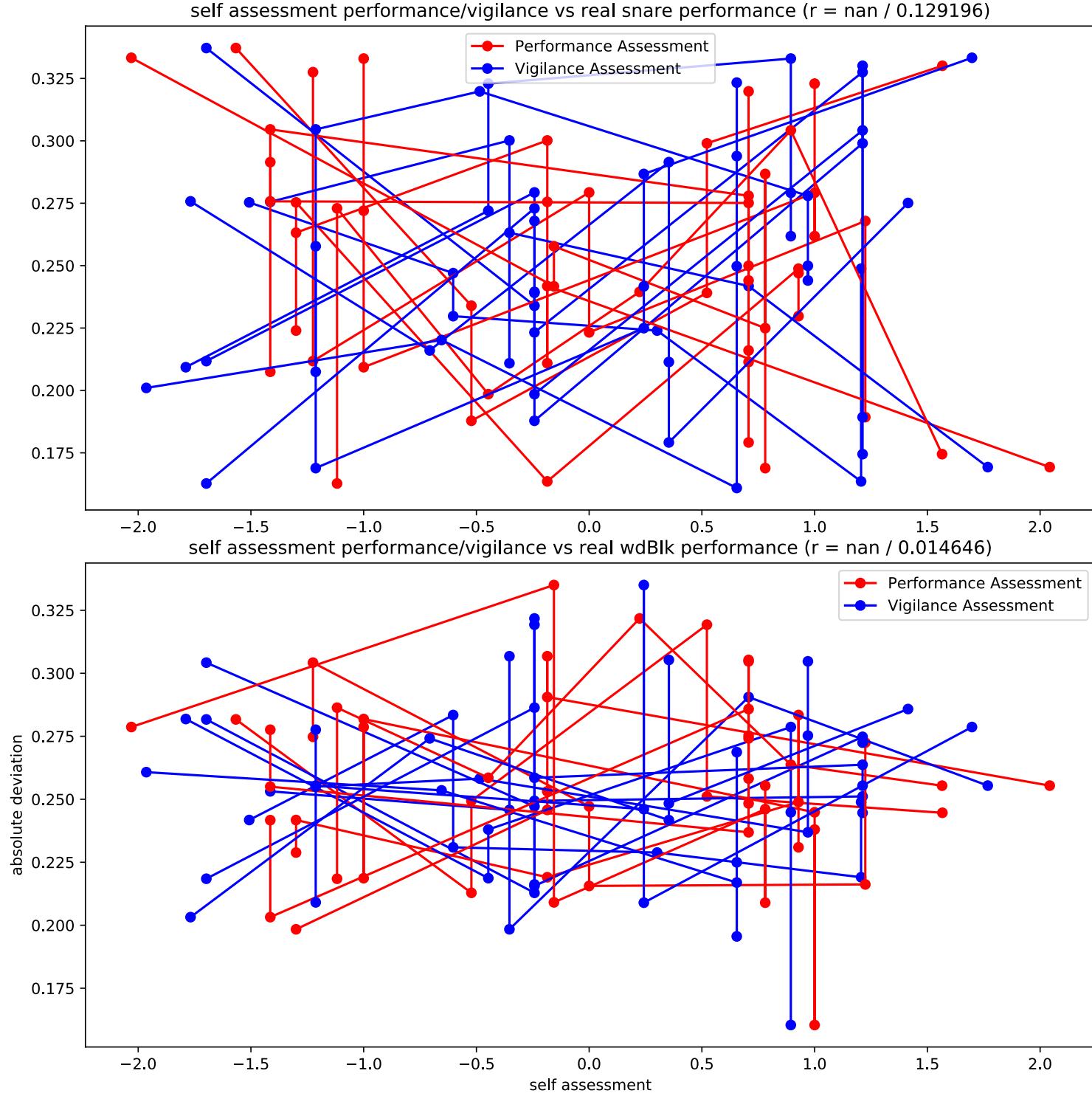


# S10 – ERP CCA

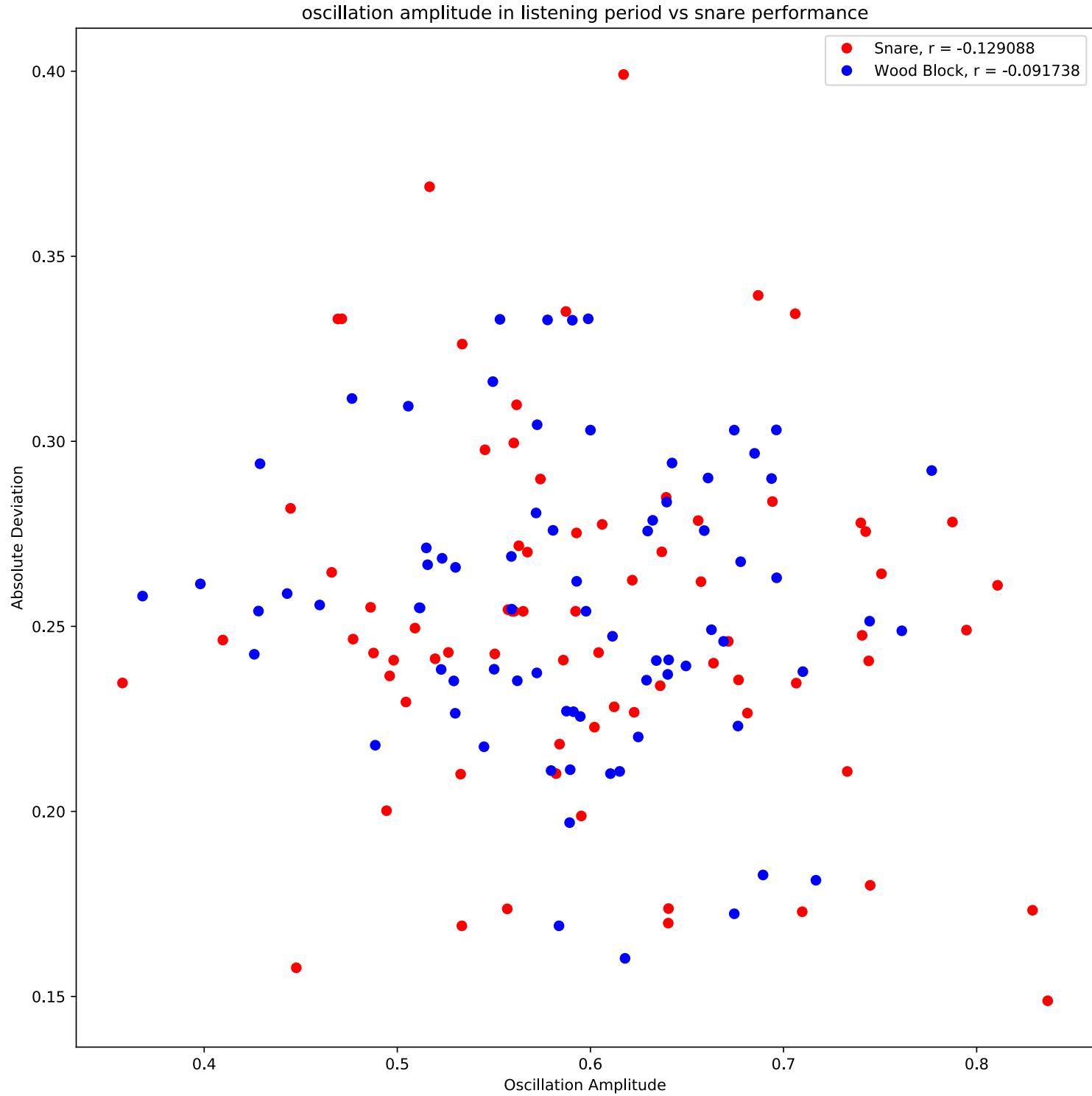


# All 10 Subjects – Self assessment

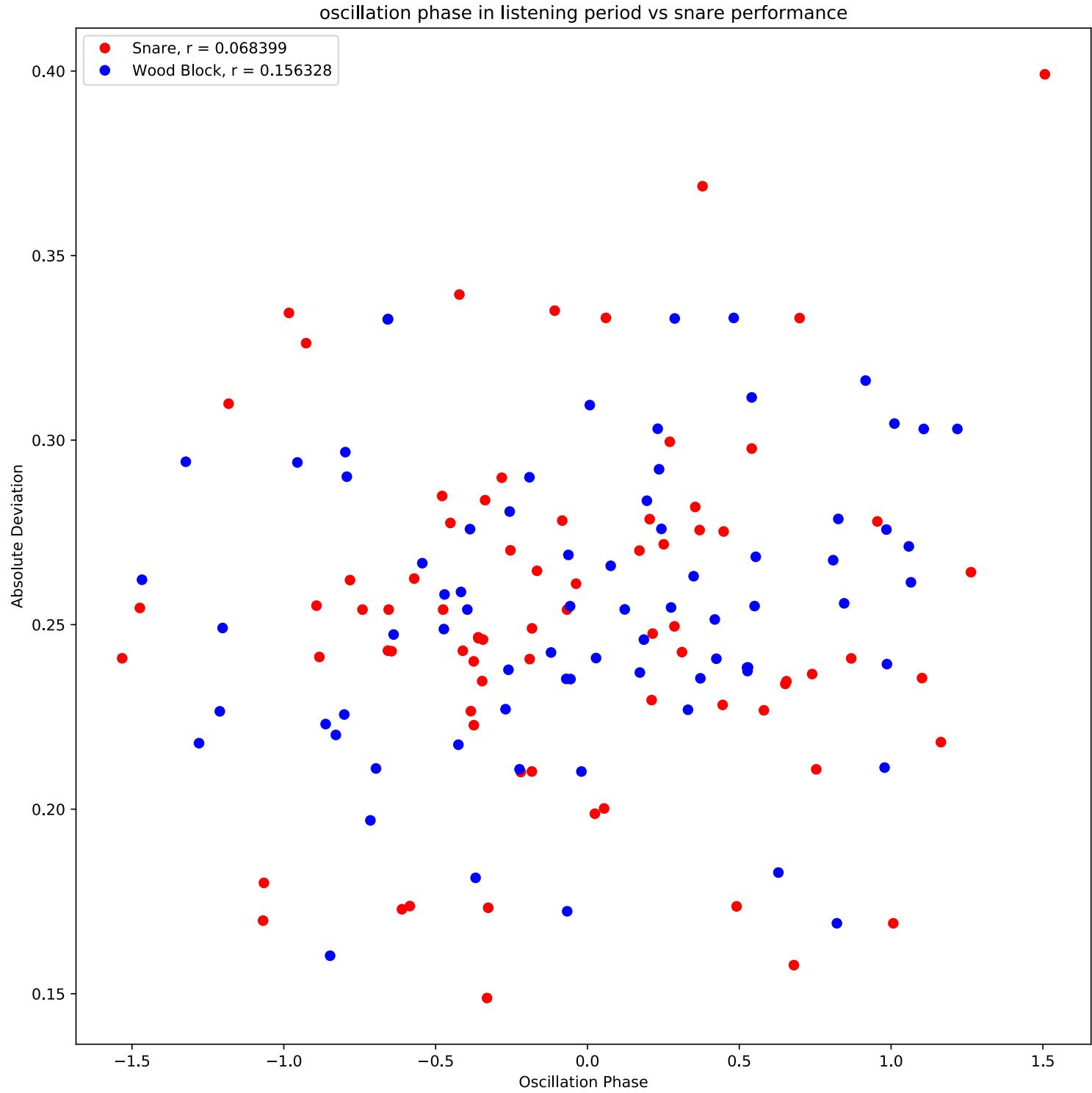
- Snare Drum:  $r = \{0.151, -0.028, -0.359, -0.723, 0.201, 0.202, 0.074, 0, -0.721, -0.73\}$   
**mean r performance = -0.1933**
- Wood Block:  $r = \{-0.008, 0.452, -0.572, 0.291, -0.555, 0.055, 0.146, 0, 0.794, -0.37\}$   
**mean r performance = 0.0233**



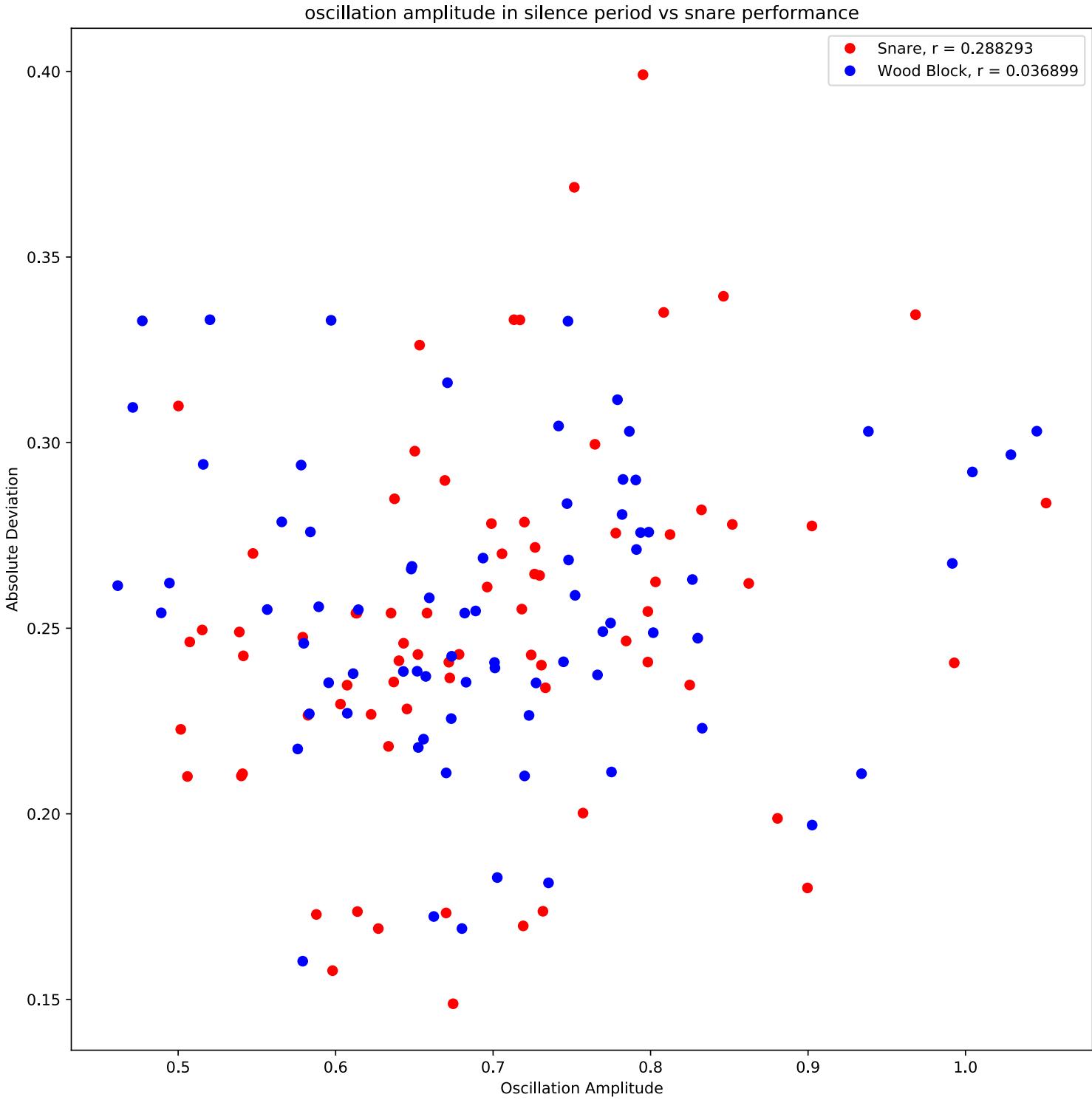
# All 10 Subjects – Listen Amplitude



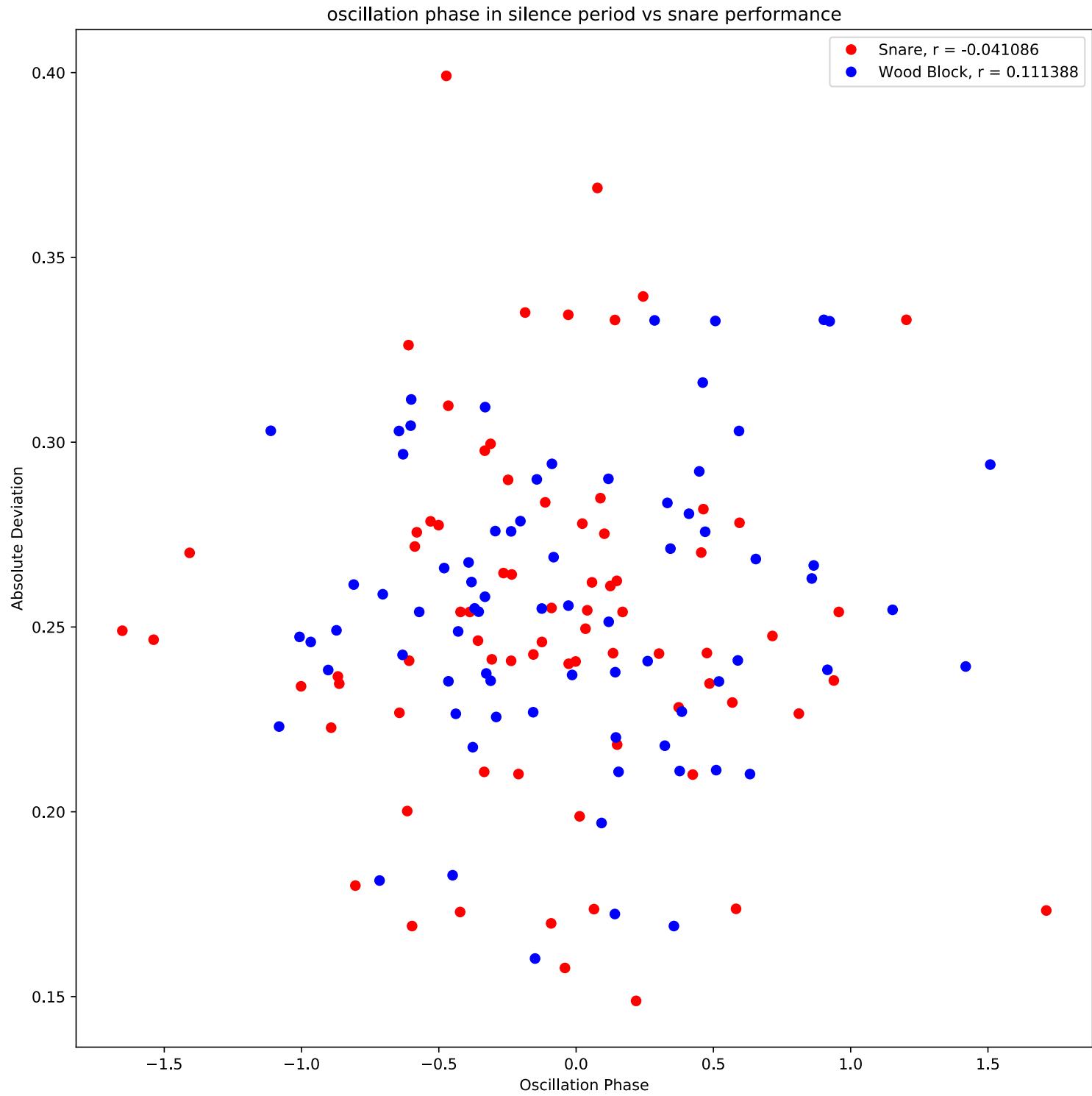
# All 10 Subjects – Listen Phase



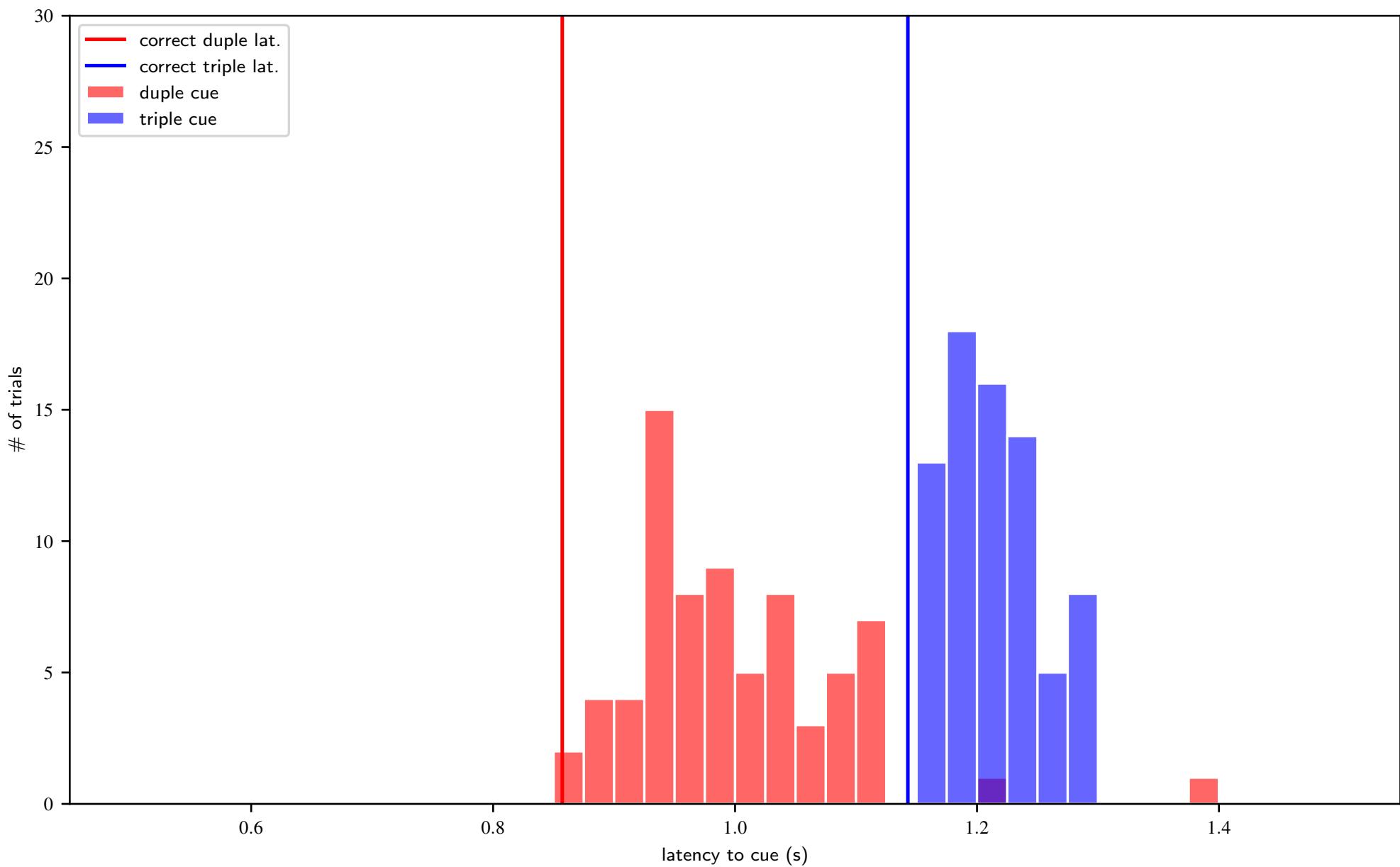
# All 10 Subjects – Silence Amplitude



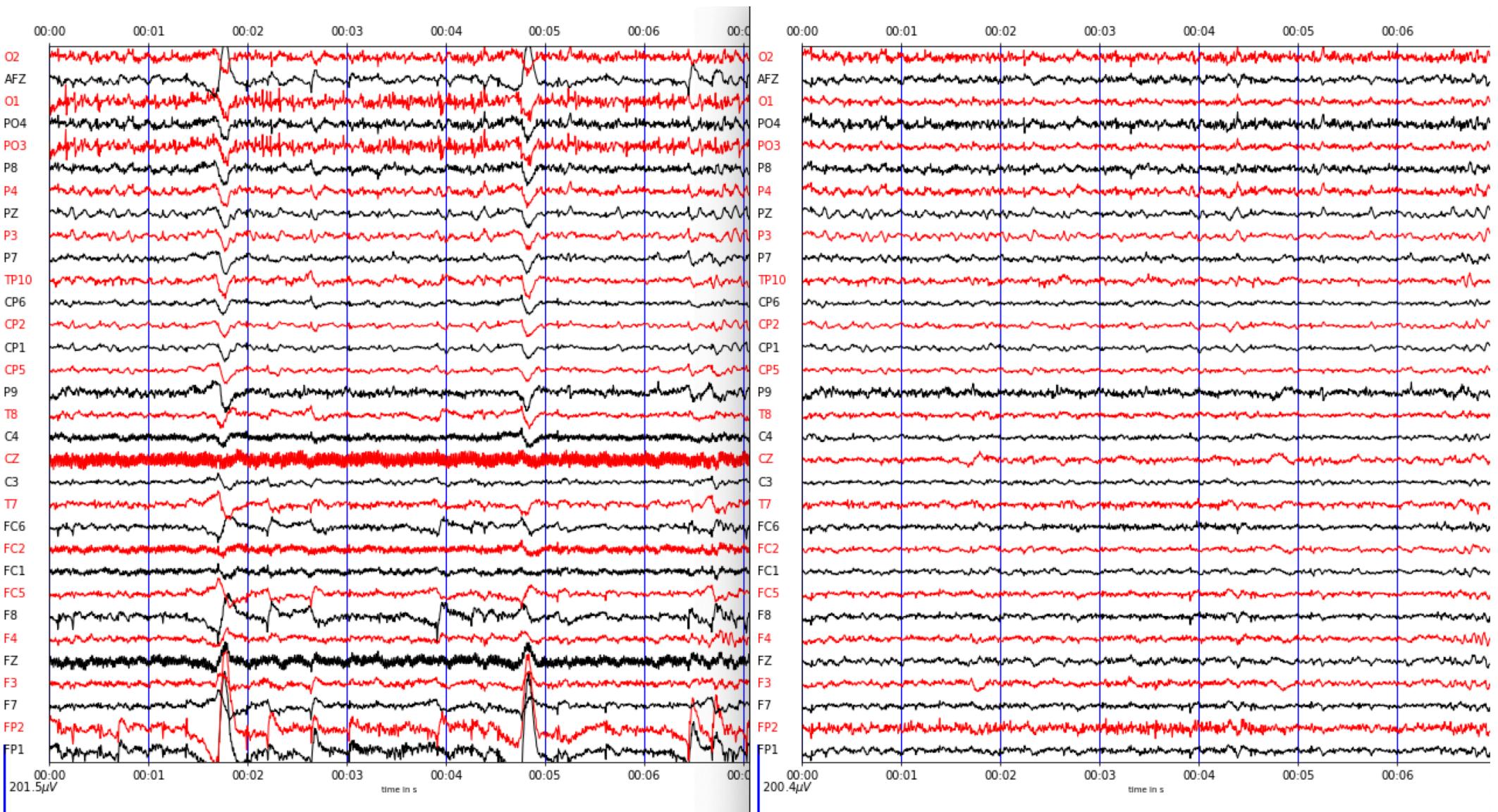
# All 10 Subjects – Silence Phase



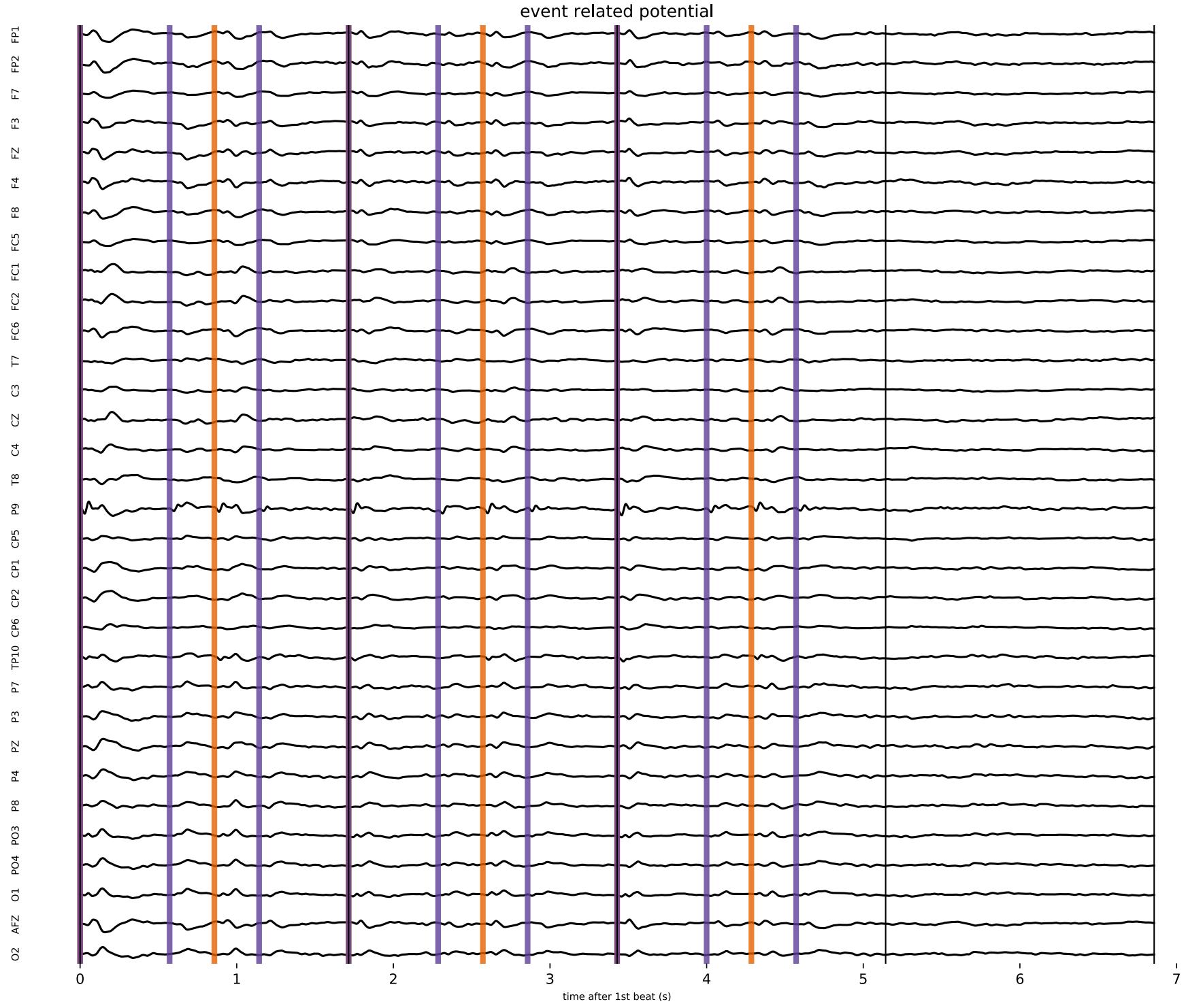
# S12 – Performance



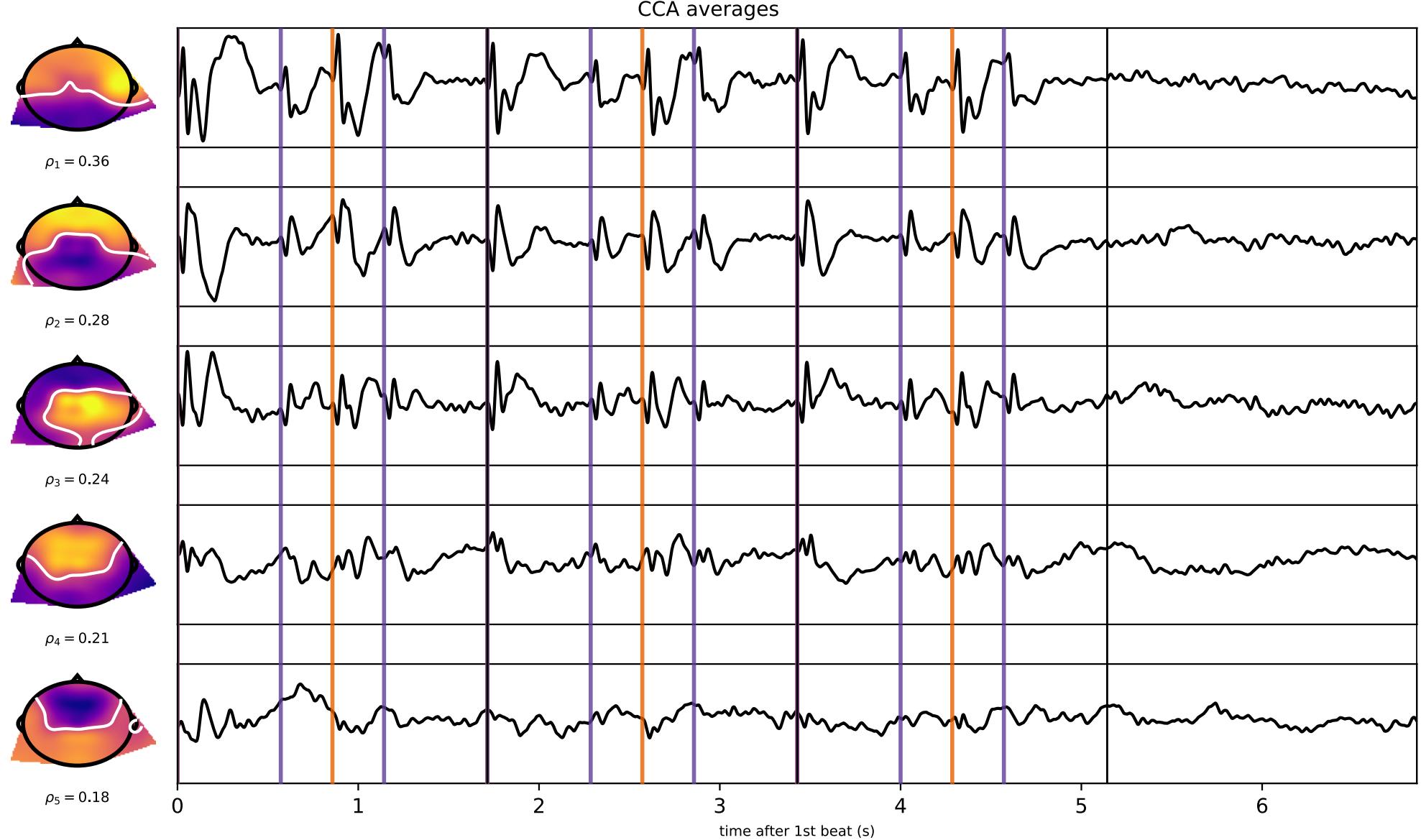
# S12 – Data Cleaning



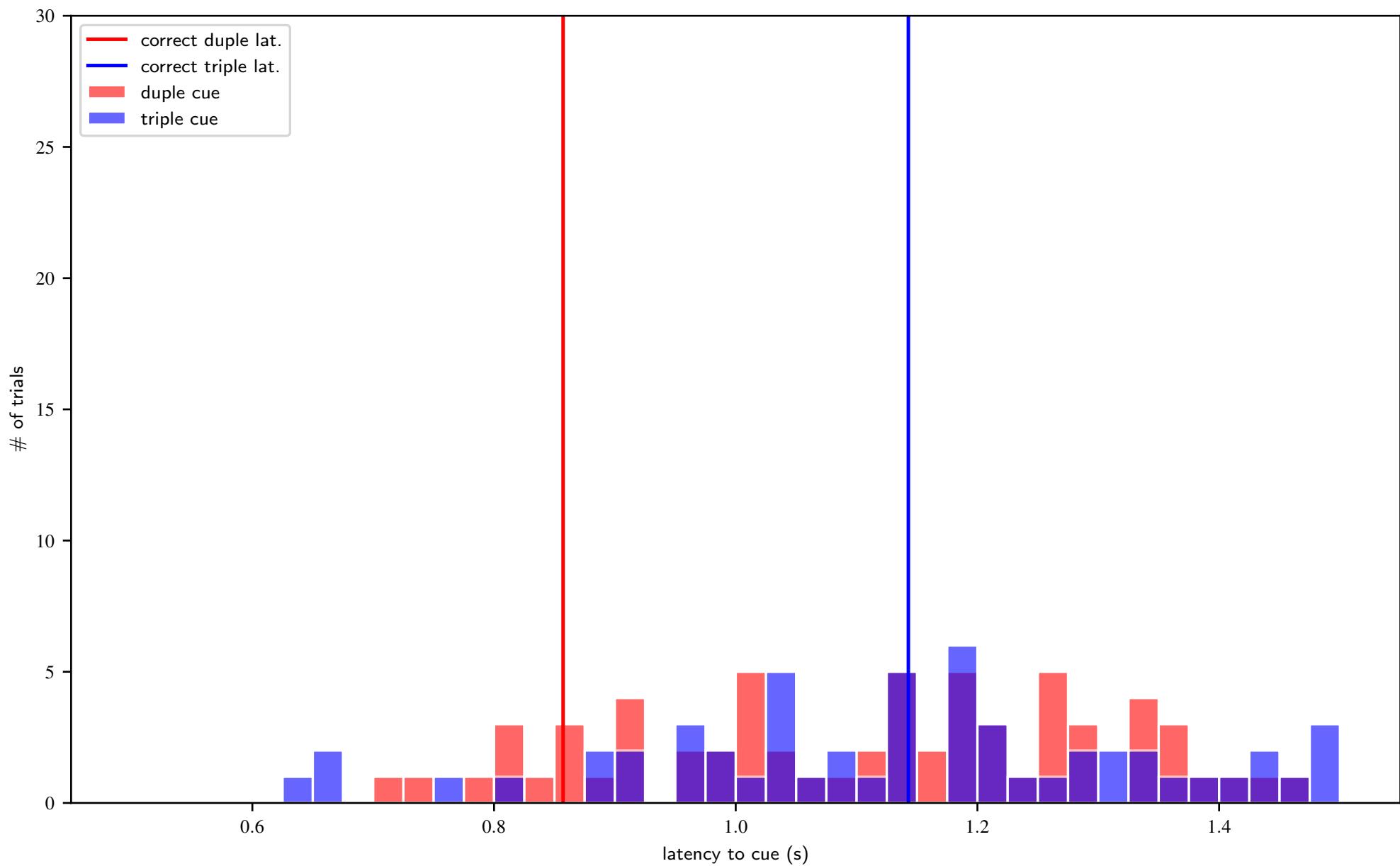
# S12 – ERP all channels



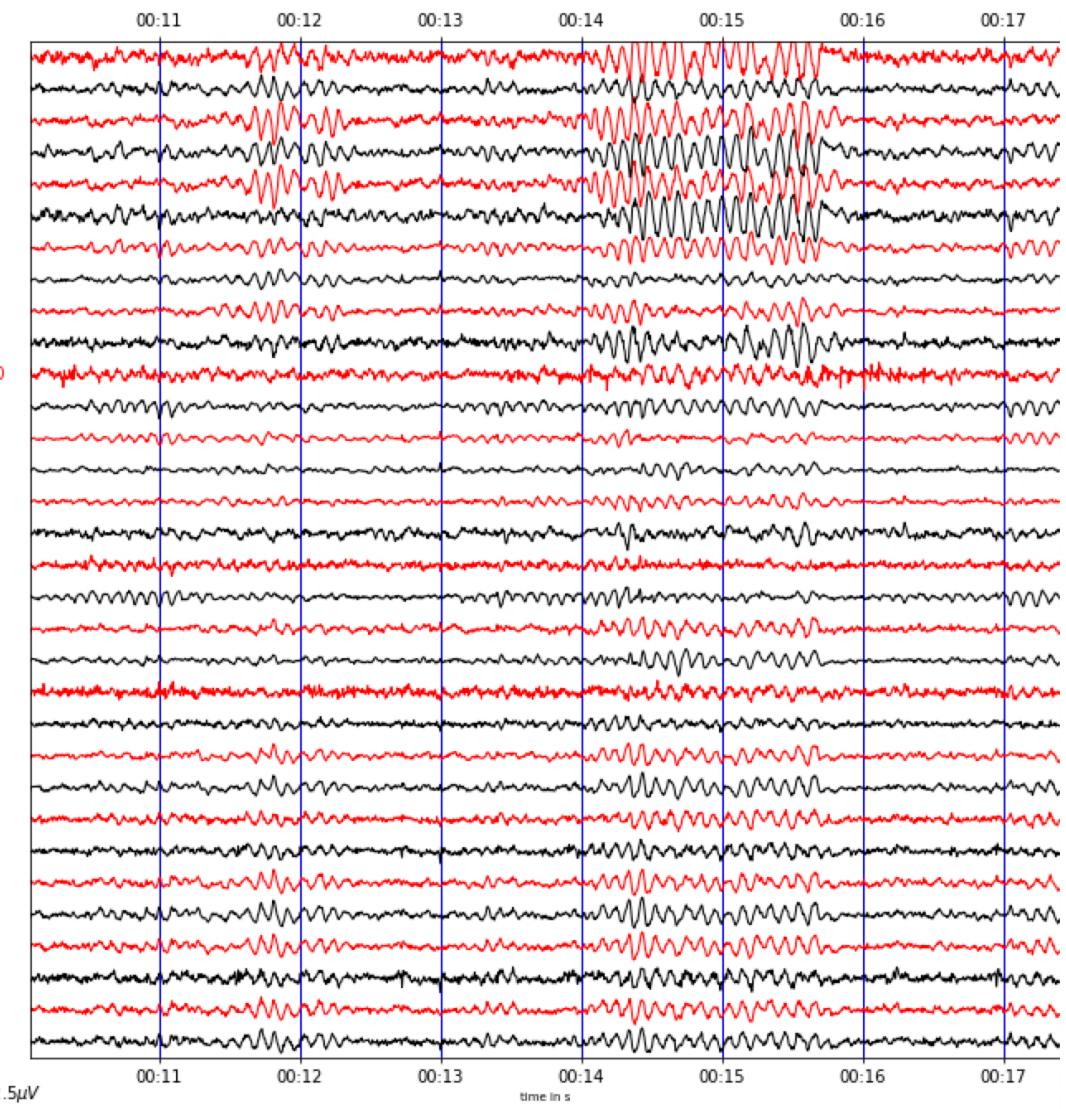
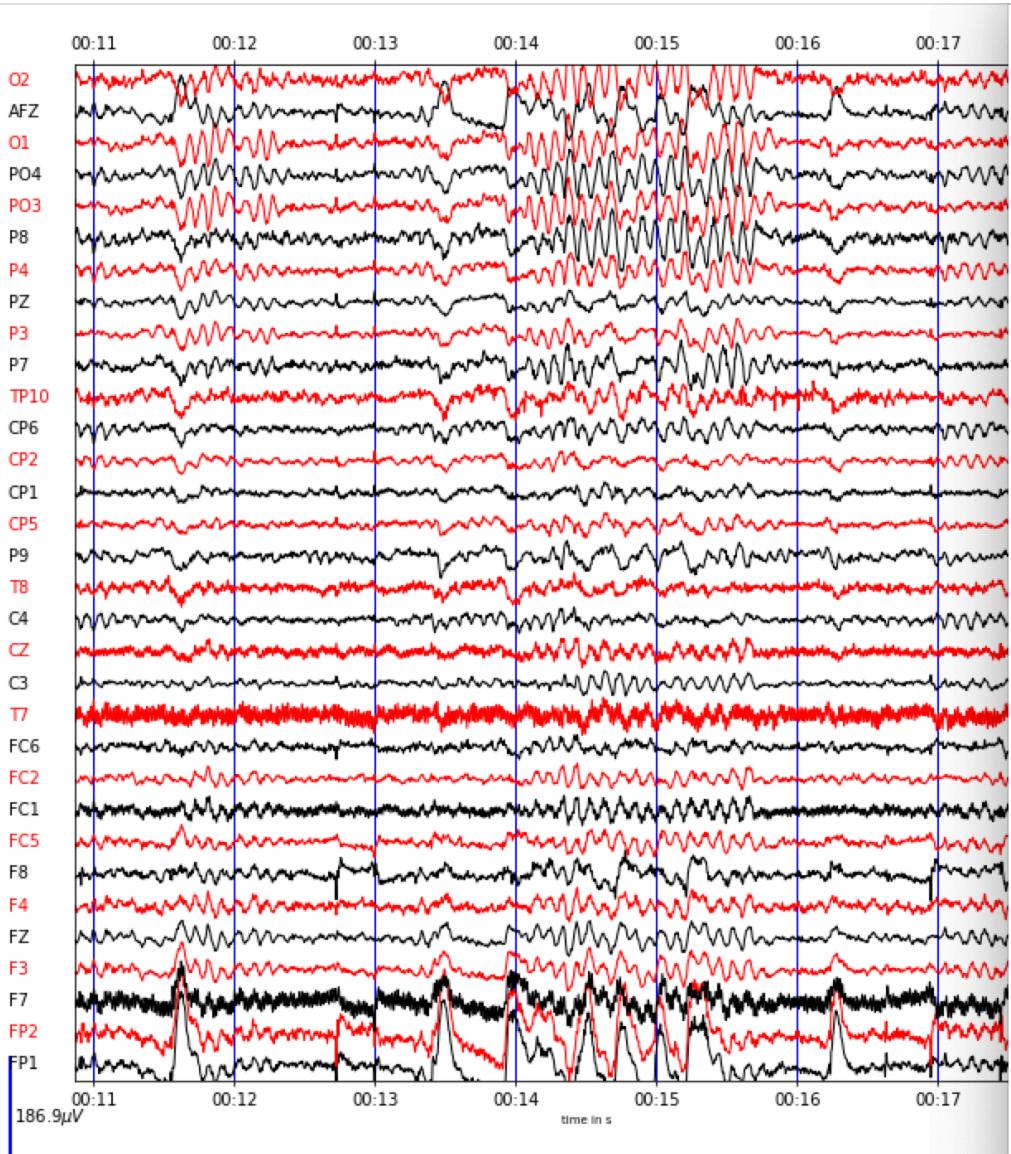
# S12 – ERP CCA



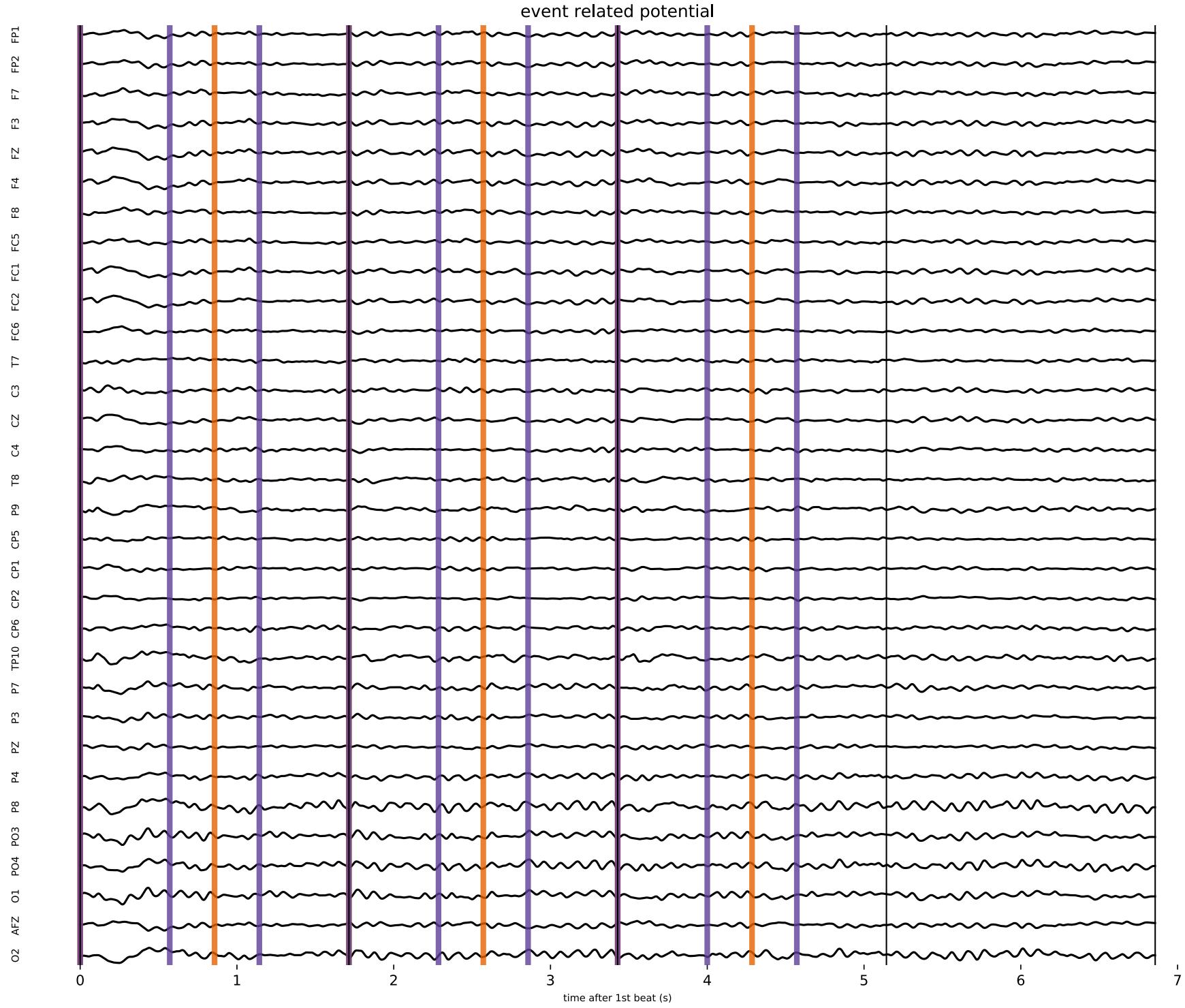
# S13 – Performance



# S13 — Data Cleaning



# S13 – ERP all channels



# S13 – ERP CCA



$\rho_1 = 0.25$



$\rho_2 = 0.18$



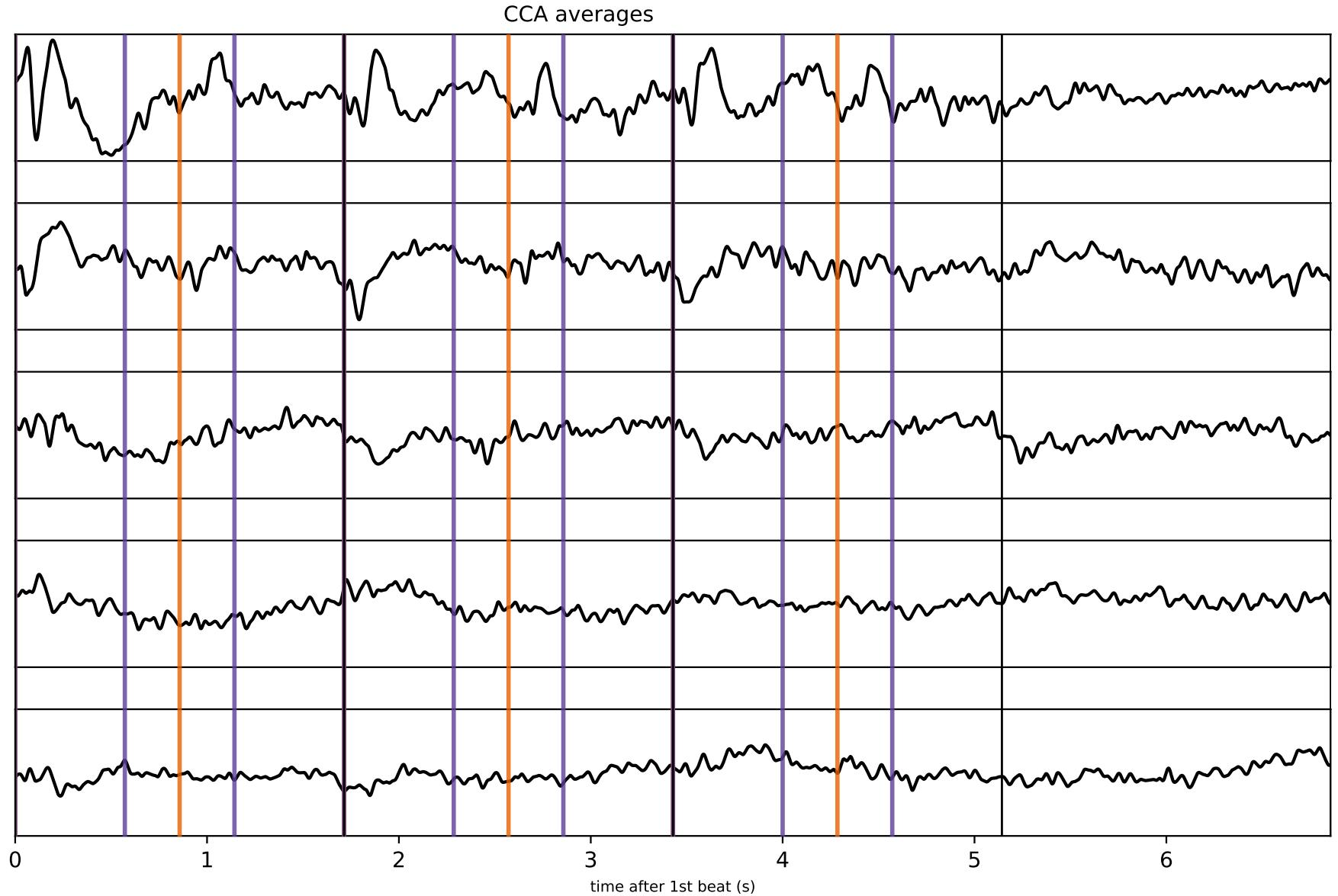
$\rho_3 = 0.15$



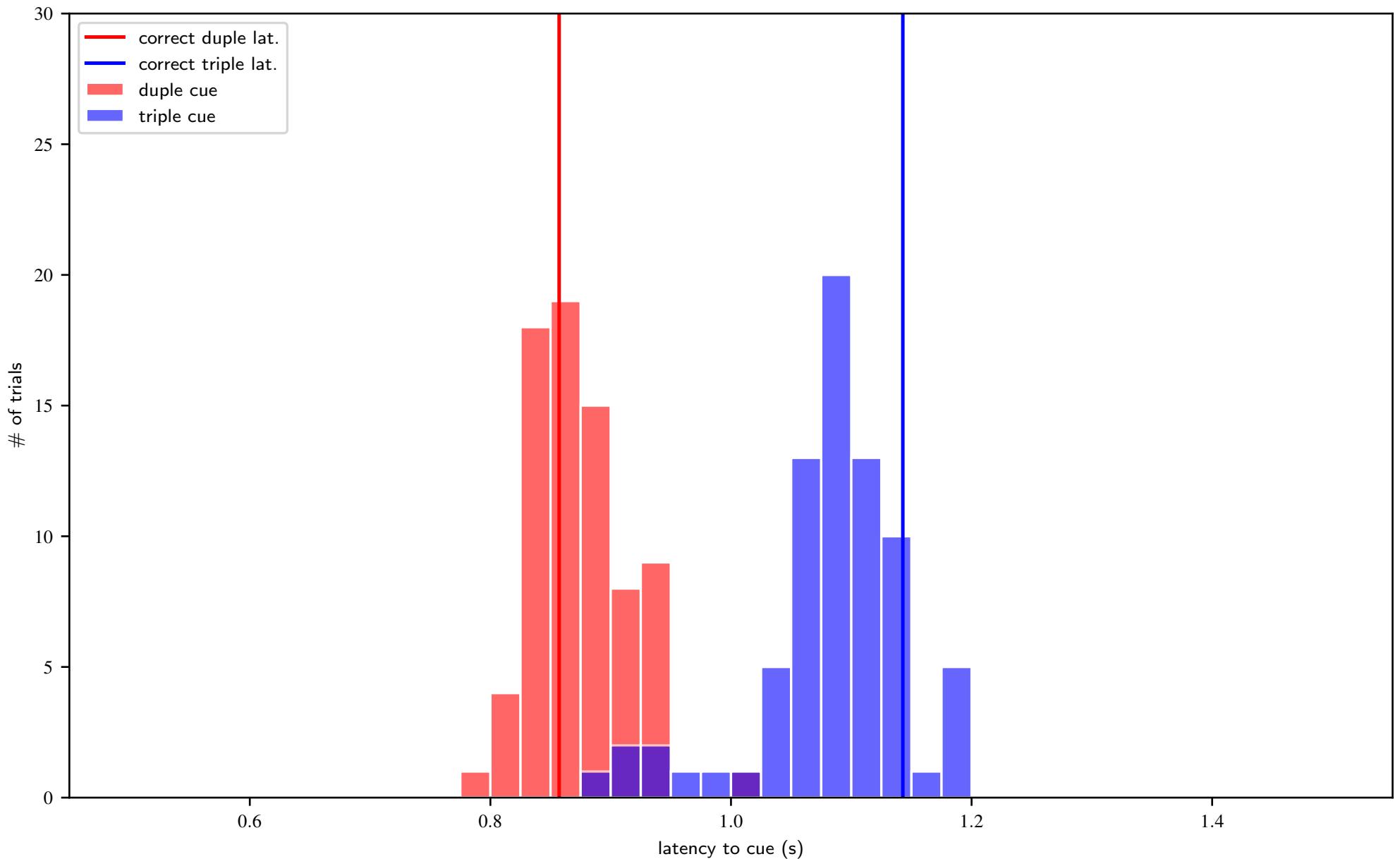
$\rho_4 = 0.14$



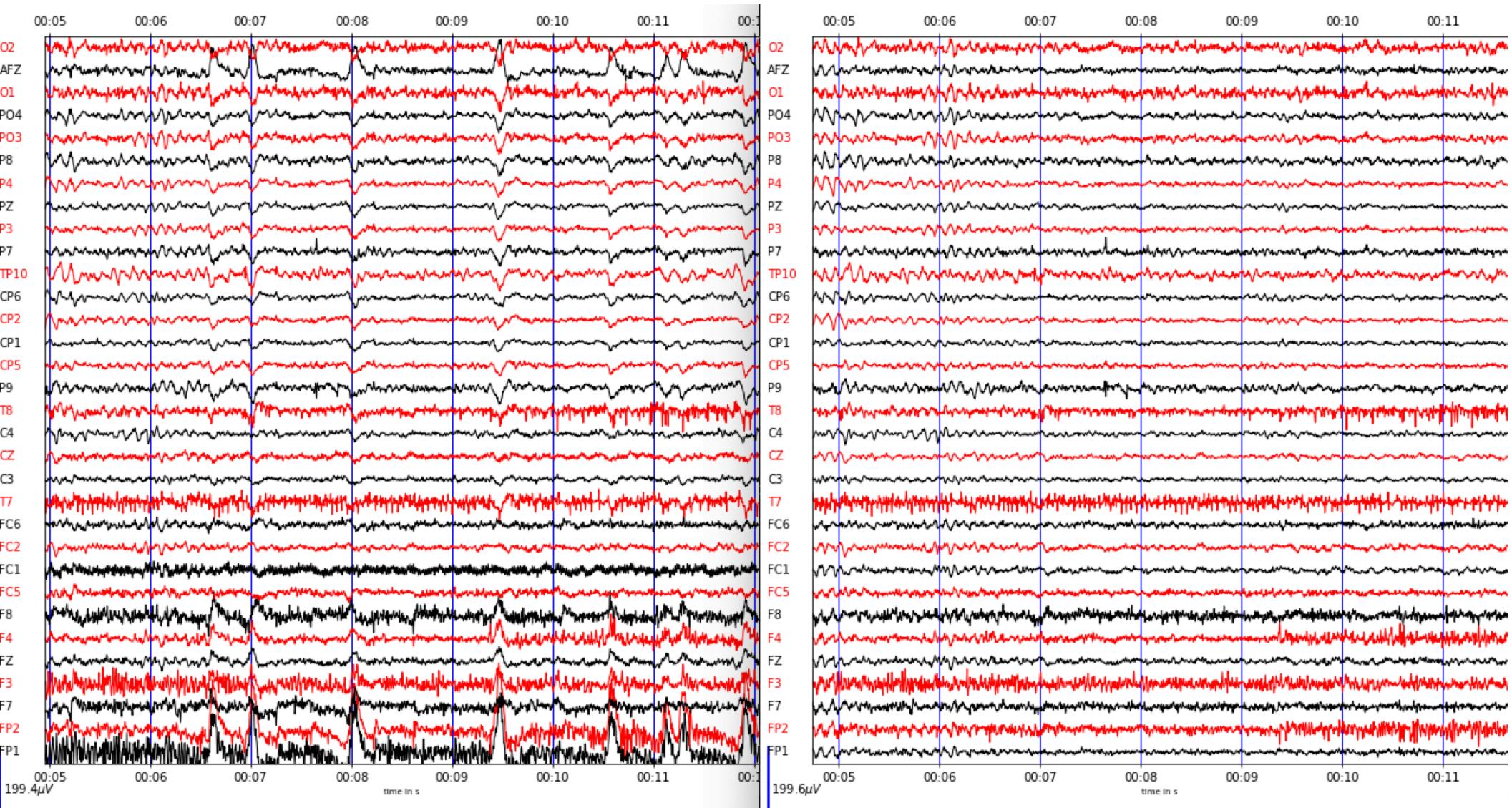
$\rho_5 = 0.12$



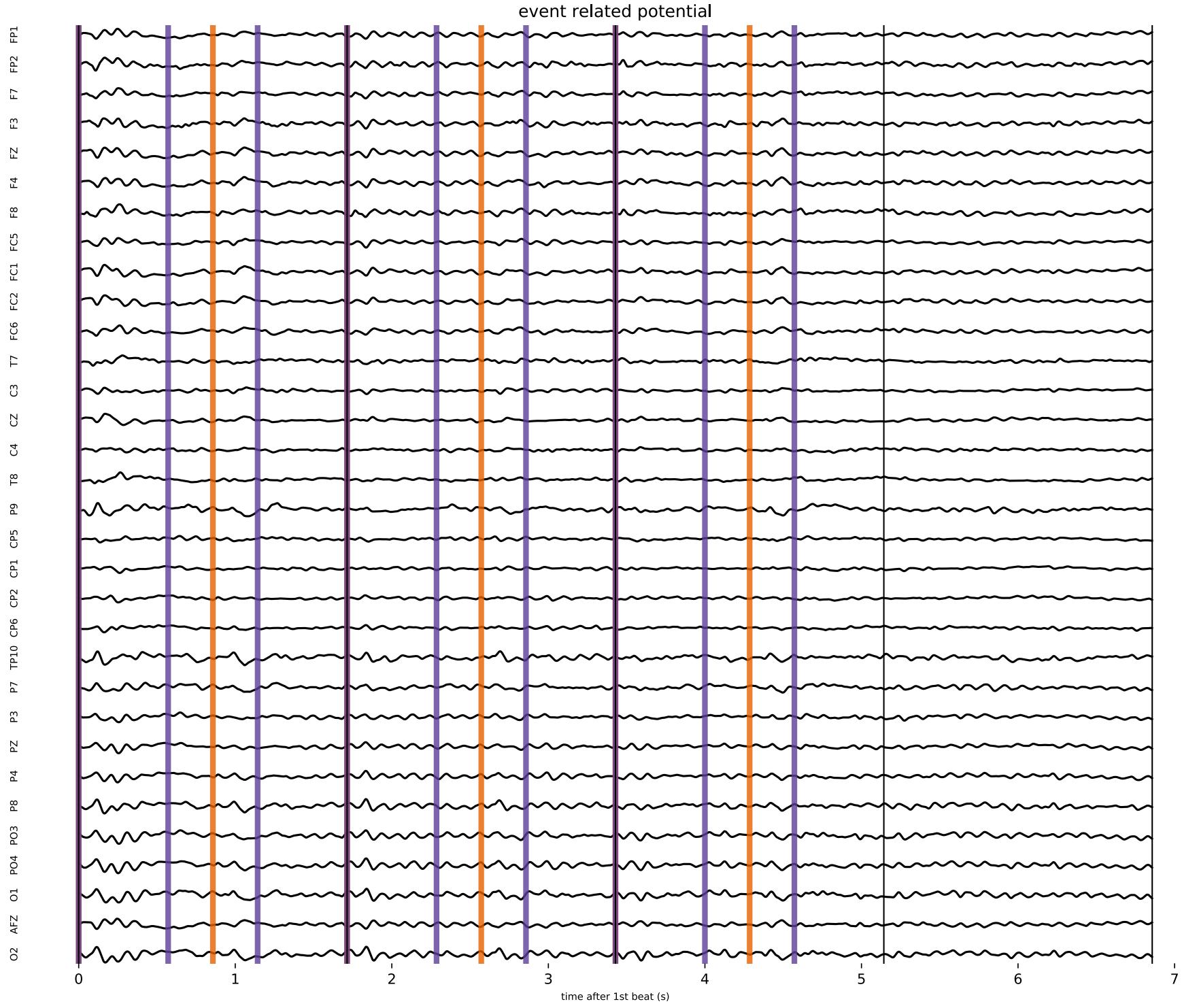
# S14 – Performance



# S14 — Data Cleaning



# S14 – ERP all channels



# S14 – ERP CCA



$\rho_1 = 0.23$



$\rho_2 = 0.22$



$\rho_3 = 0.19$

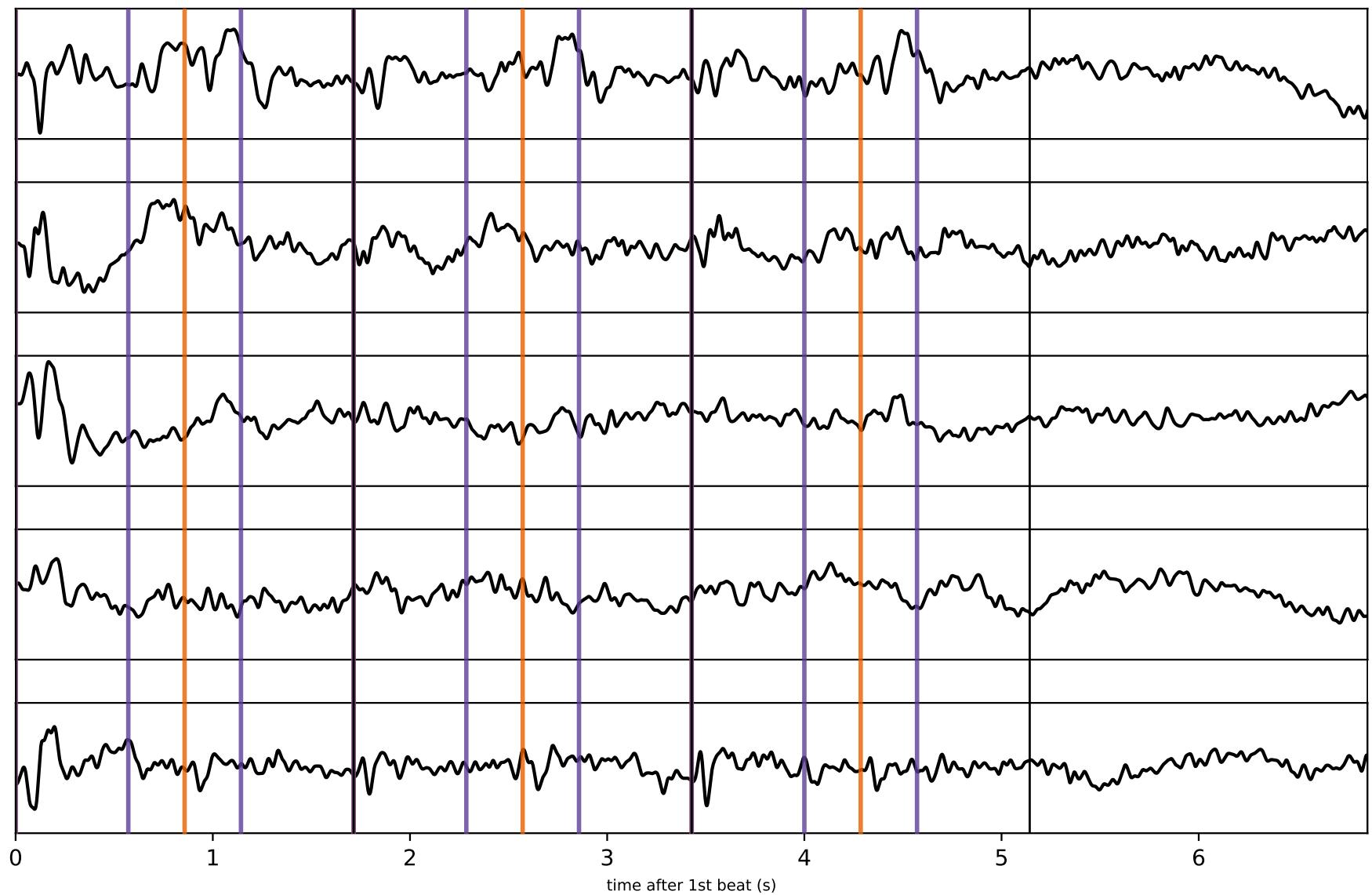


$\rho_4 = 0.18$

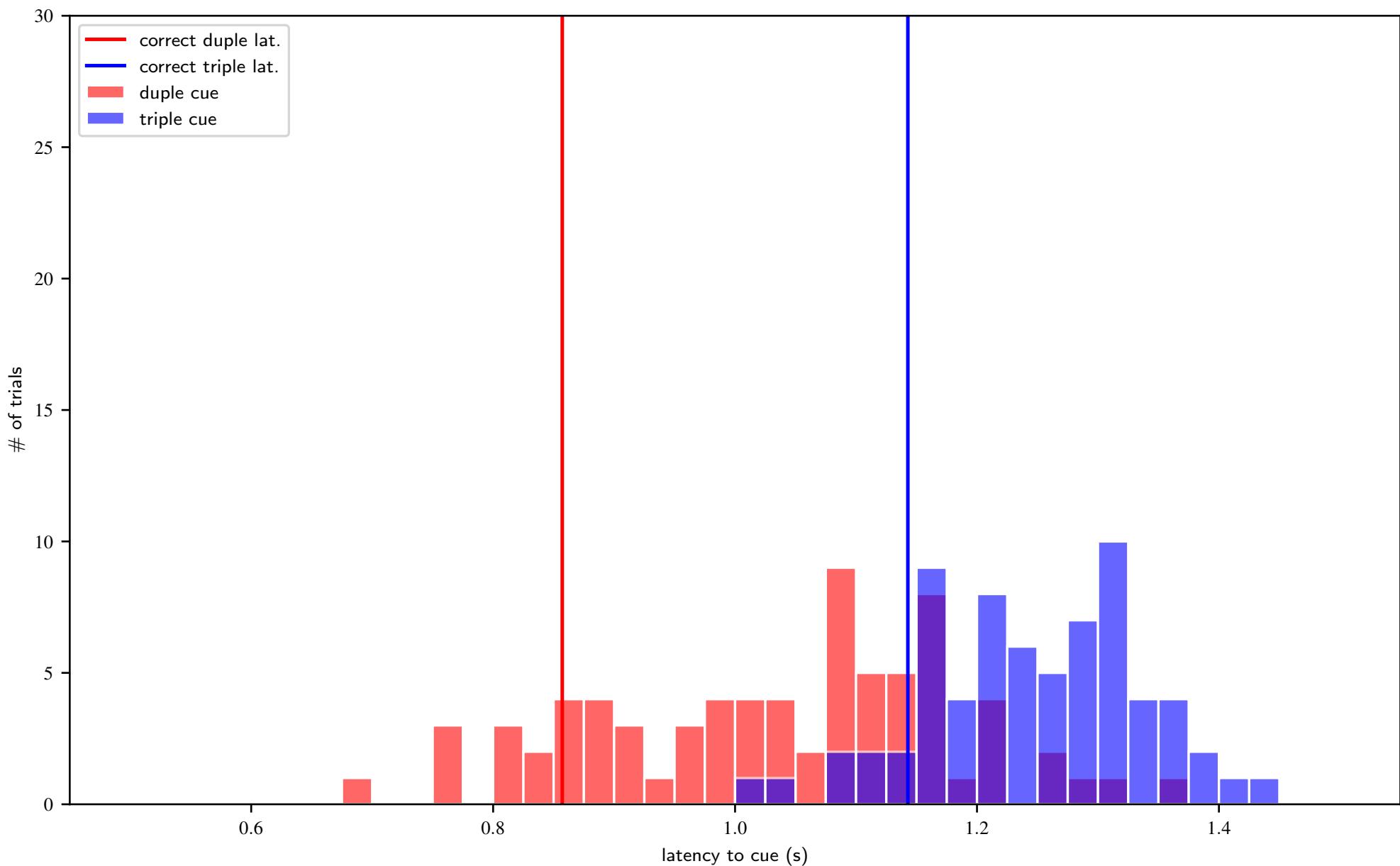


$\rho_5 = 0.15$

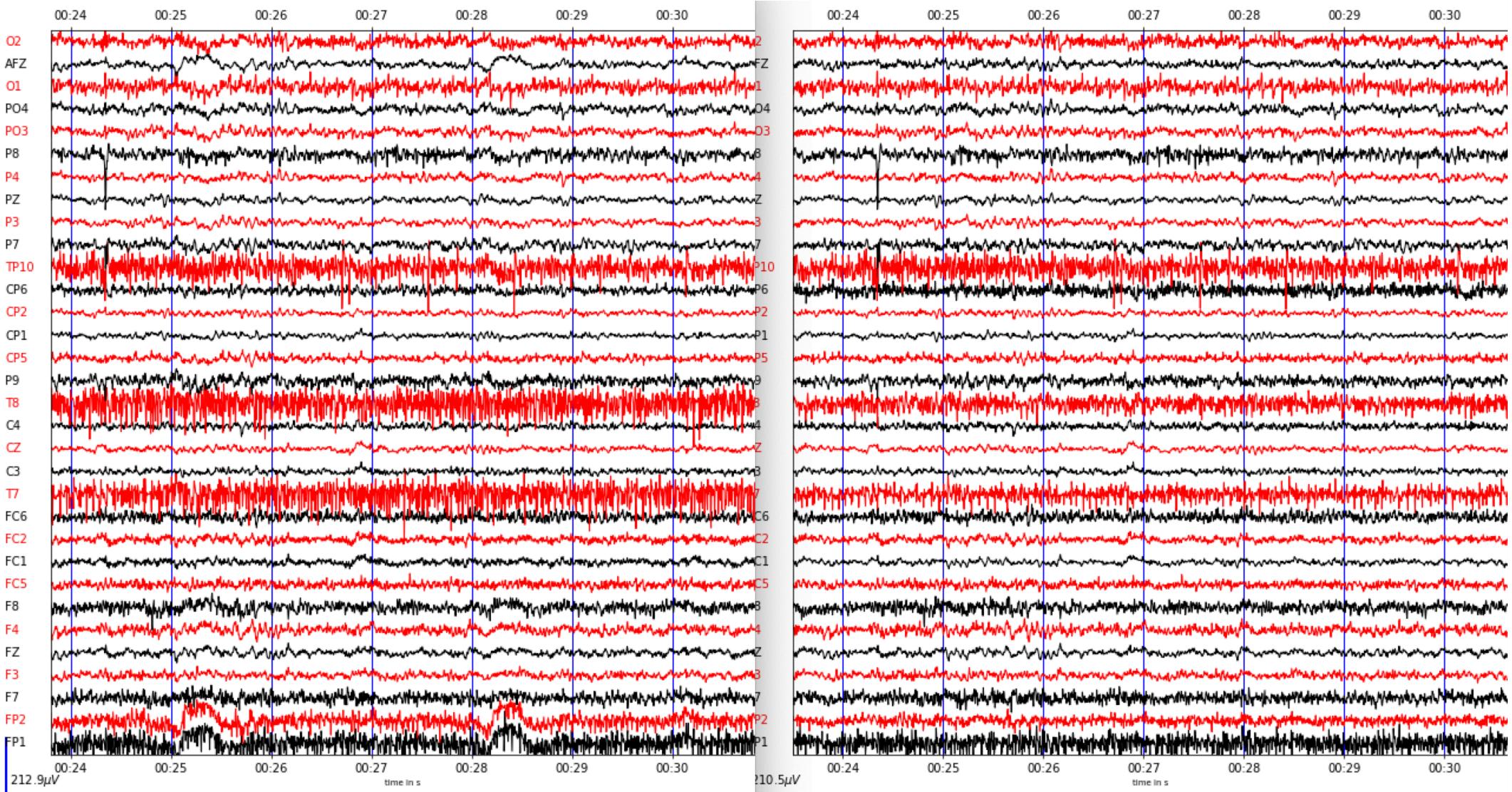
CCA averages



# S15 – Performance



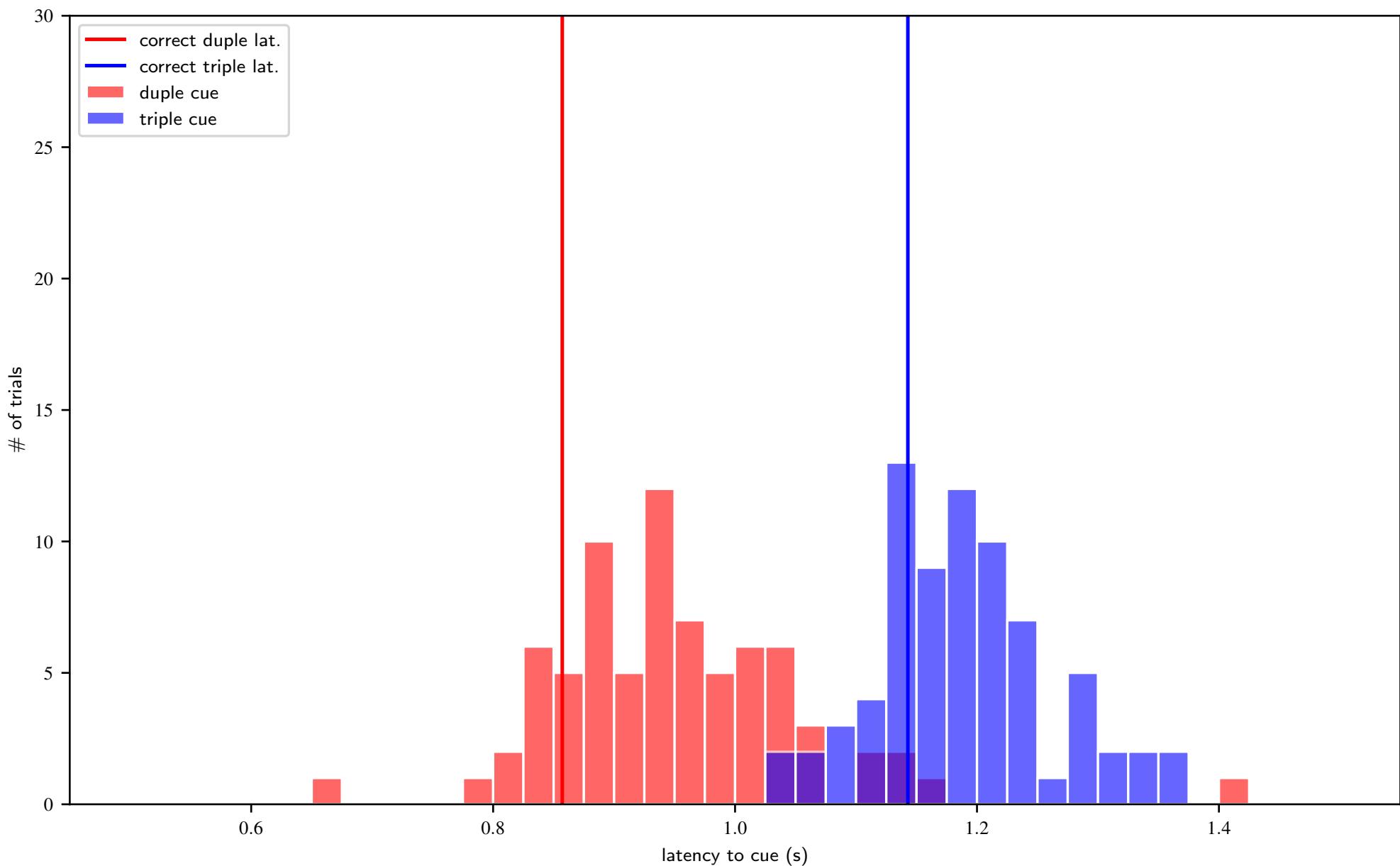
# S15 — Data Cleaning



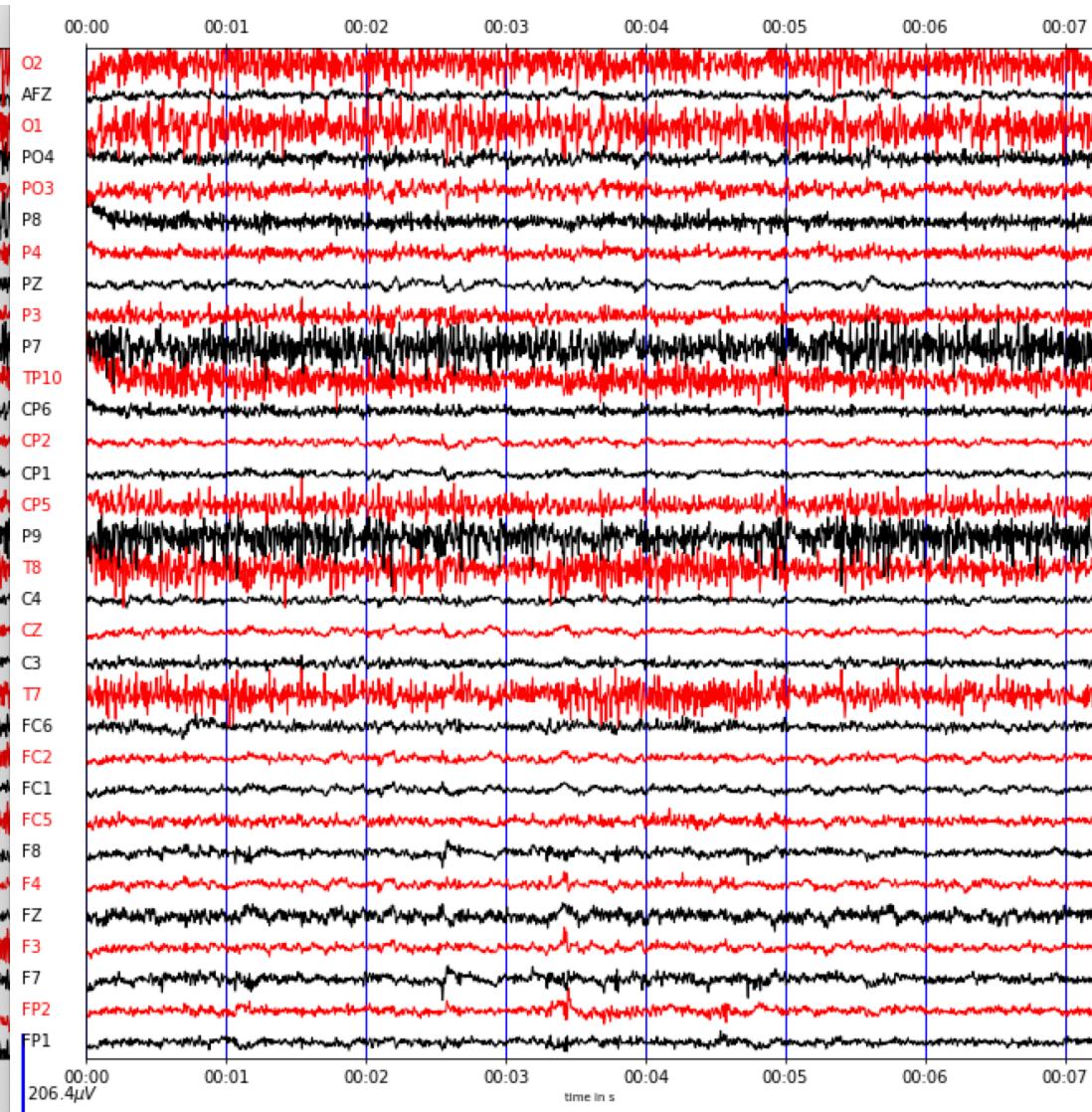
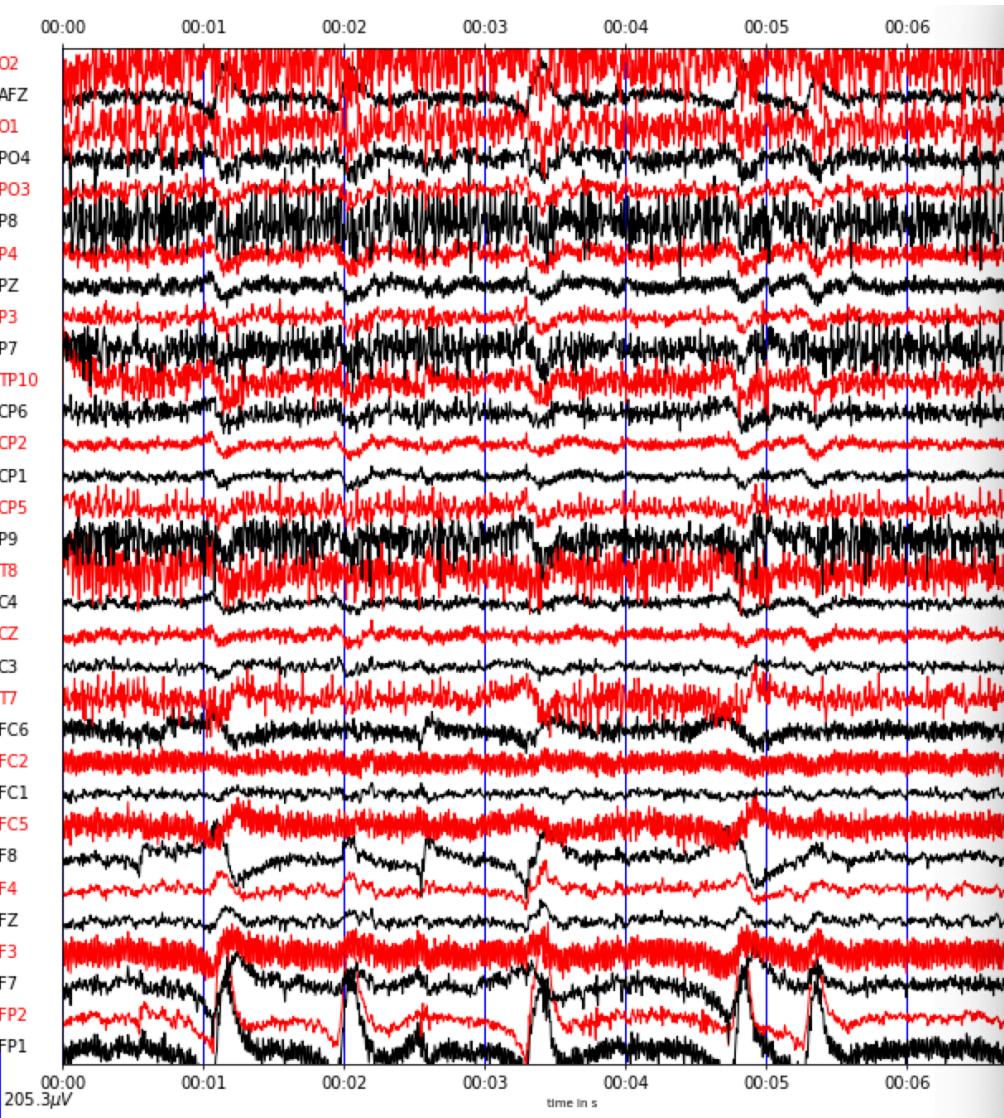
# S15 – ERP all channels

# **S15 – ERP CCA**

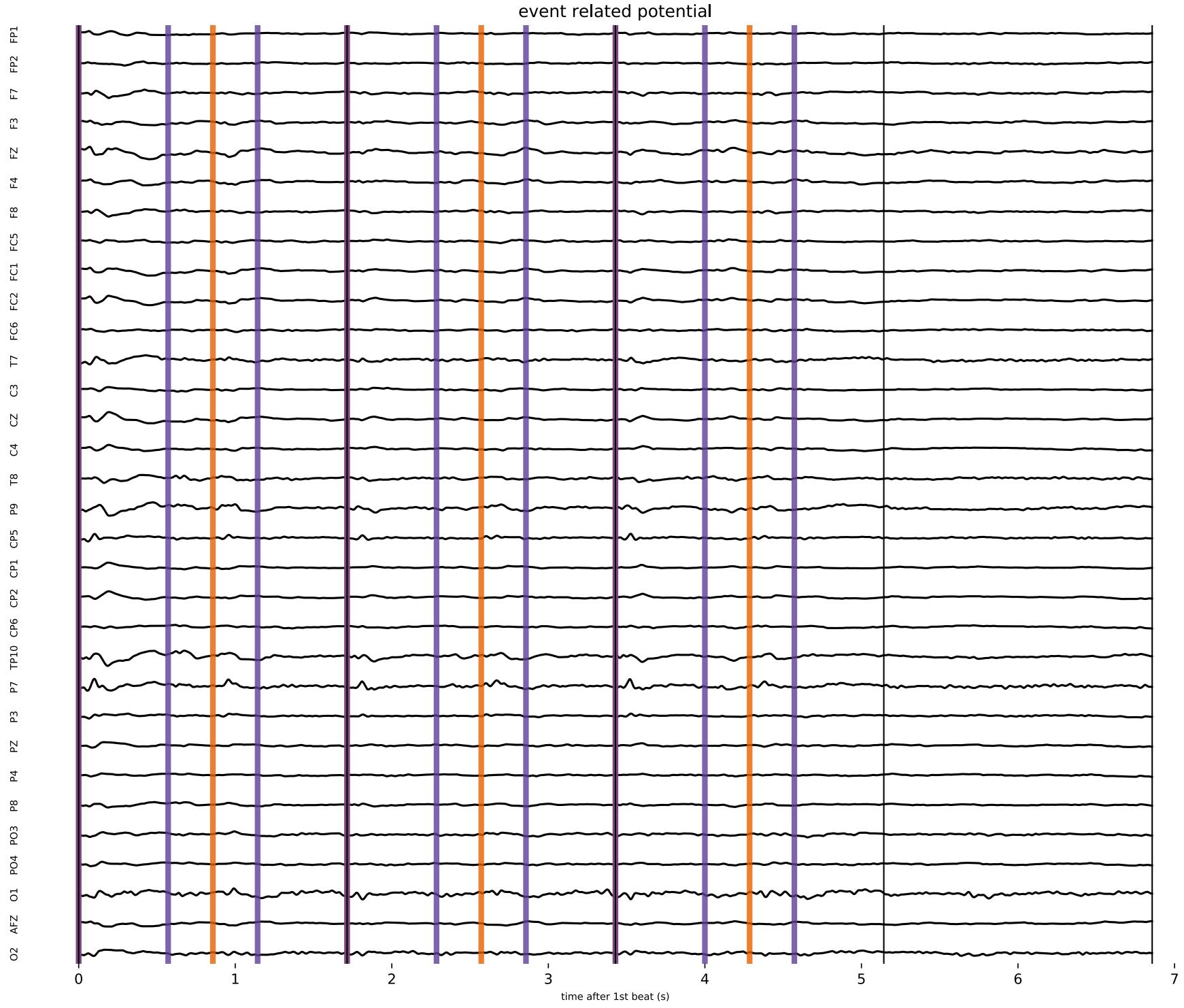
# S16 – Performance



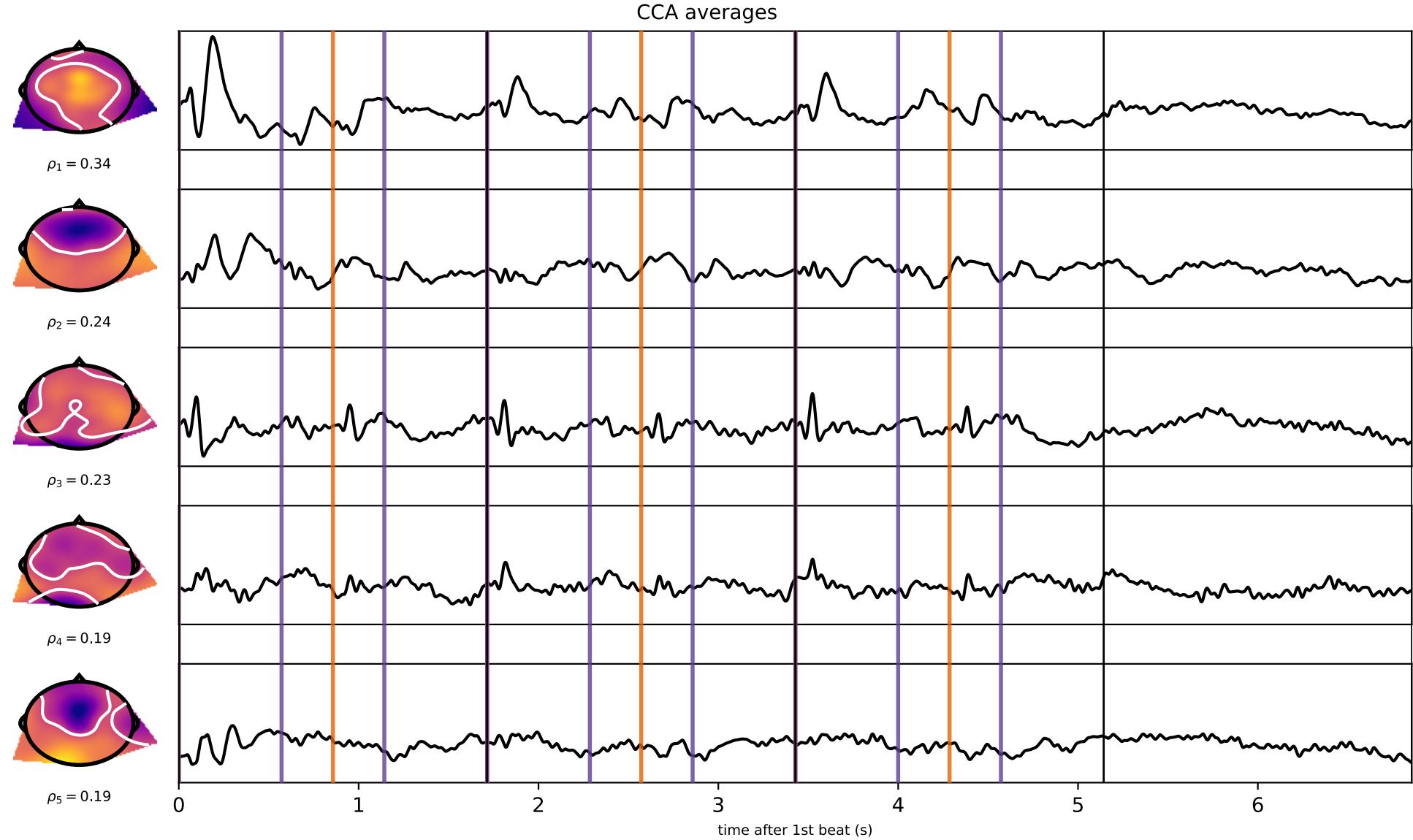
# S16 — Data Cleaning



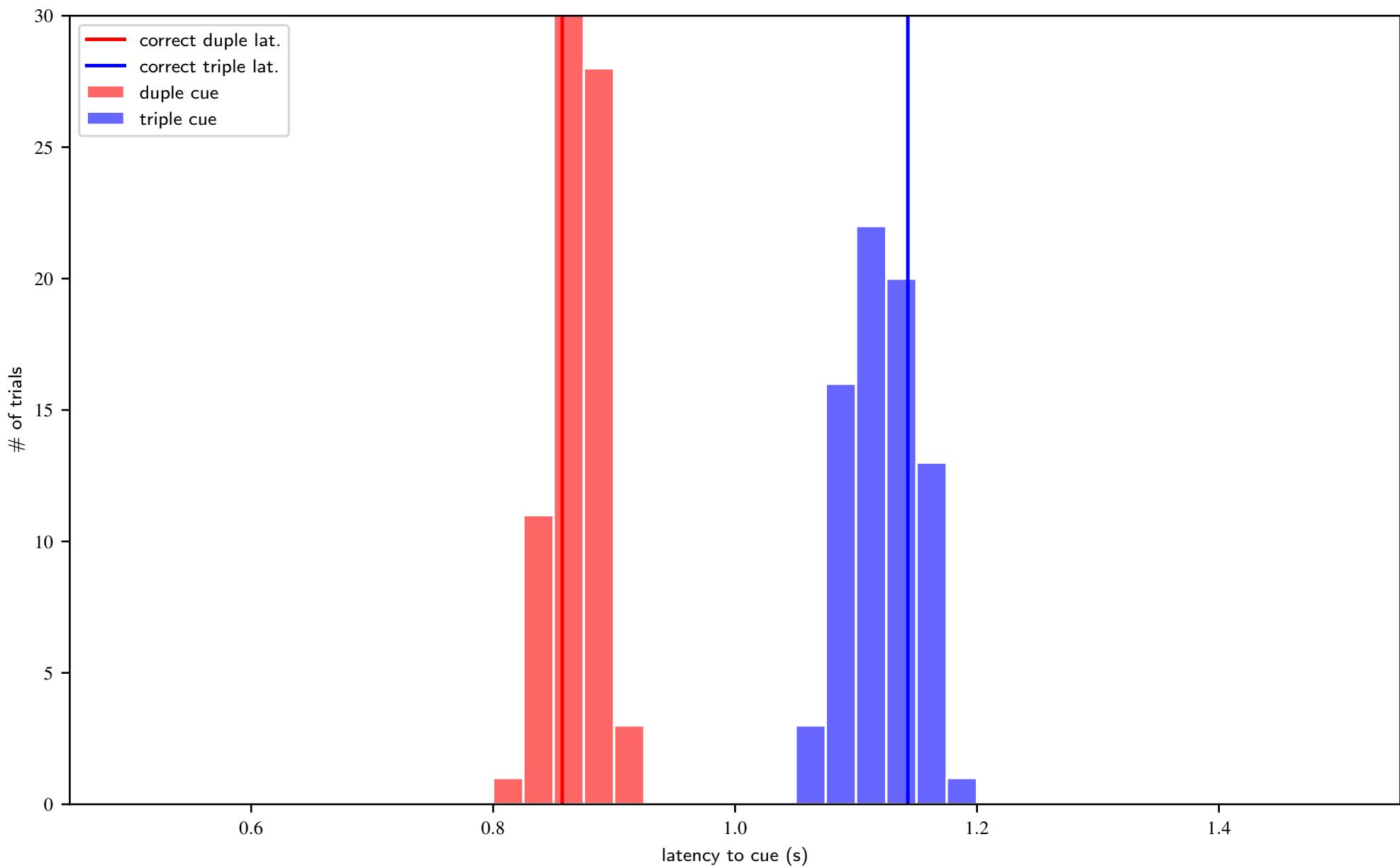
# S16 – ERP all channels



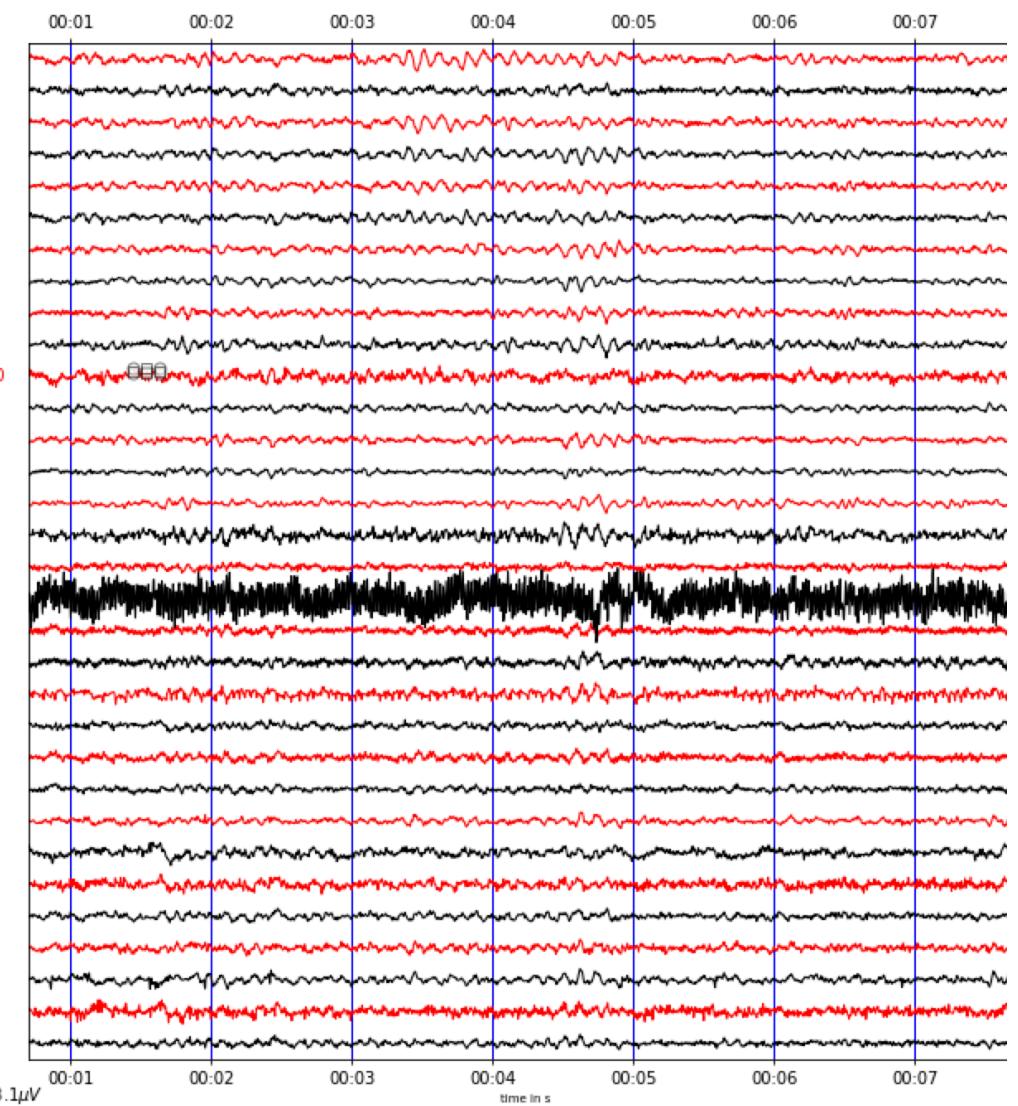
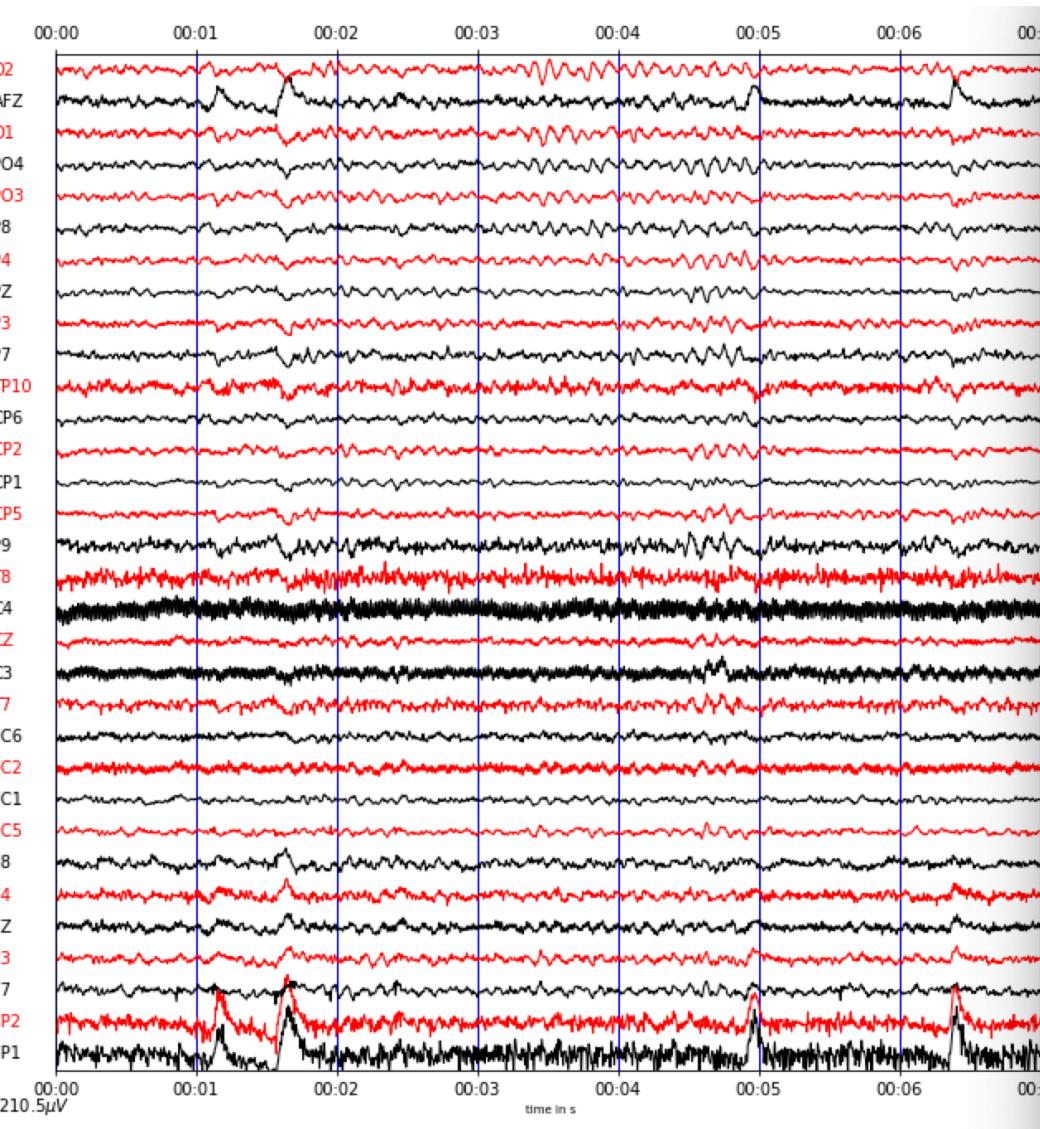
# S16 – ERP CCA



# S17 – Performance



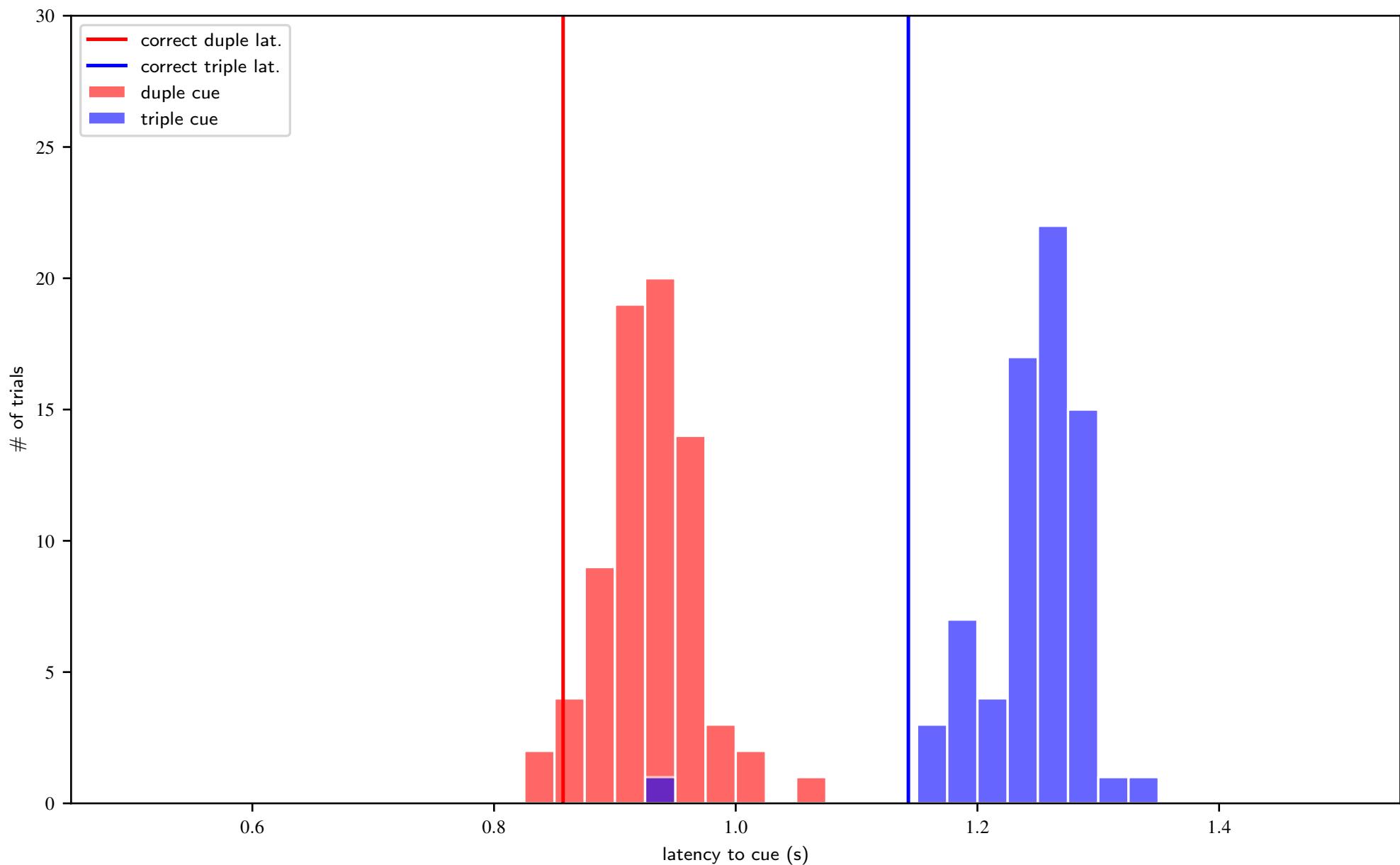
# S17 — Data Cleaning



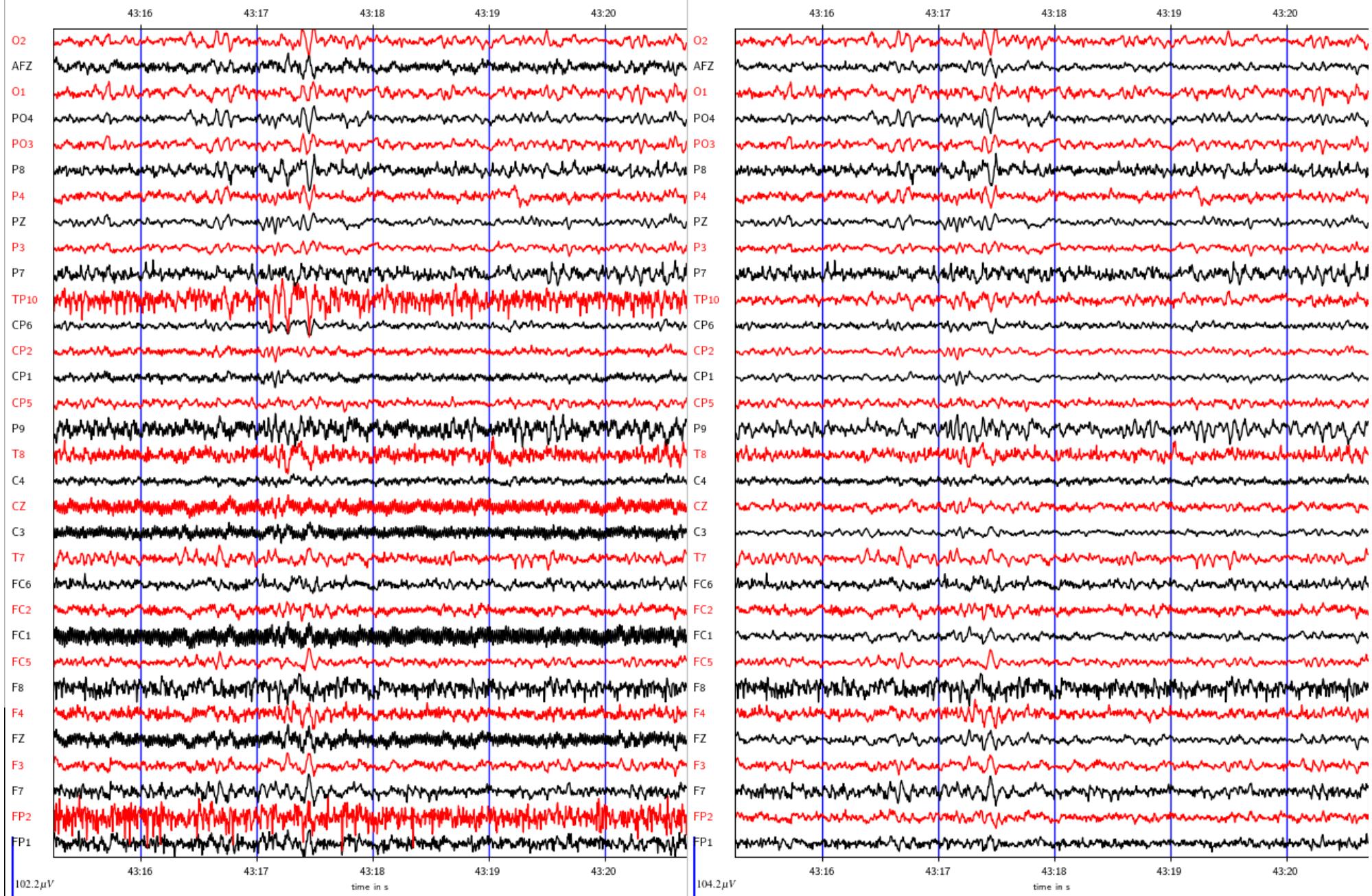
# S17 – ERP all channels

# **S17 – ERP CCA**

# S18 – Performance



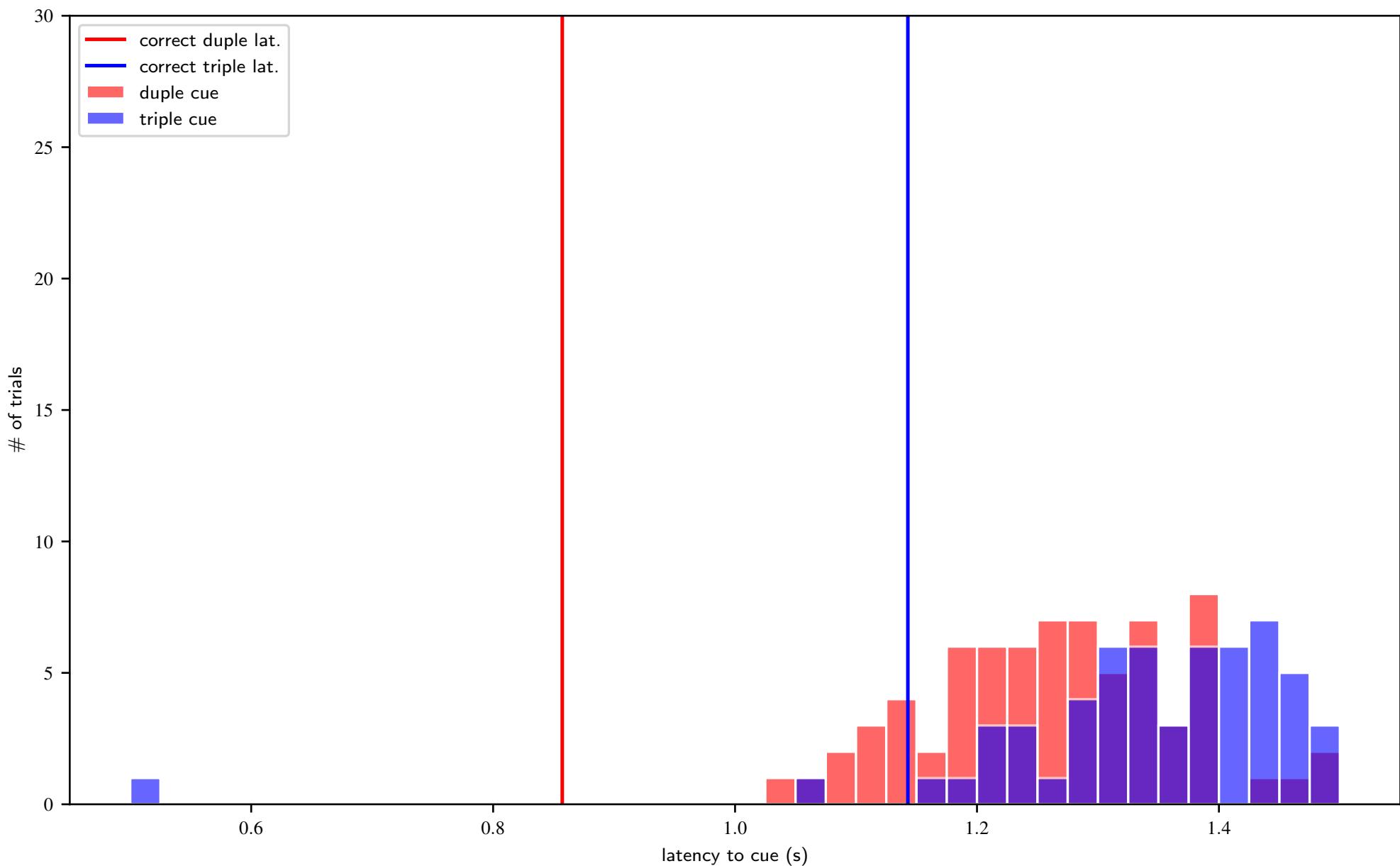
# S18 — Data Cleaning



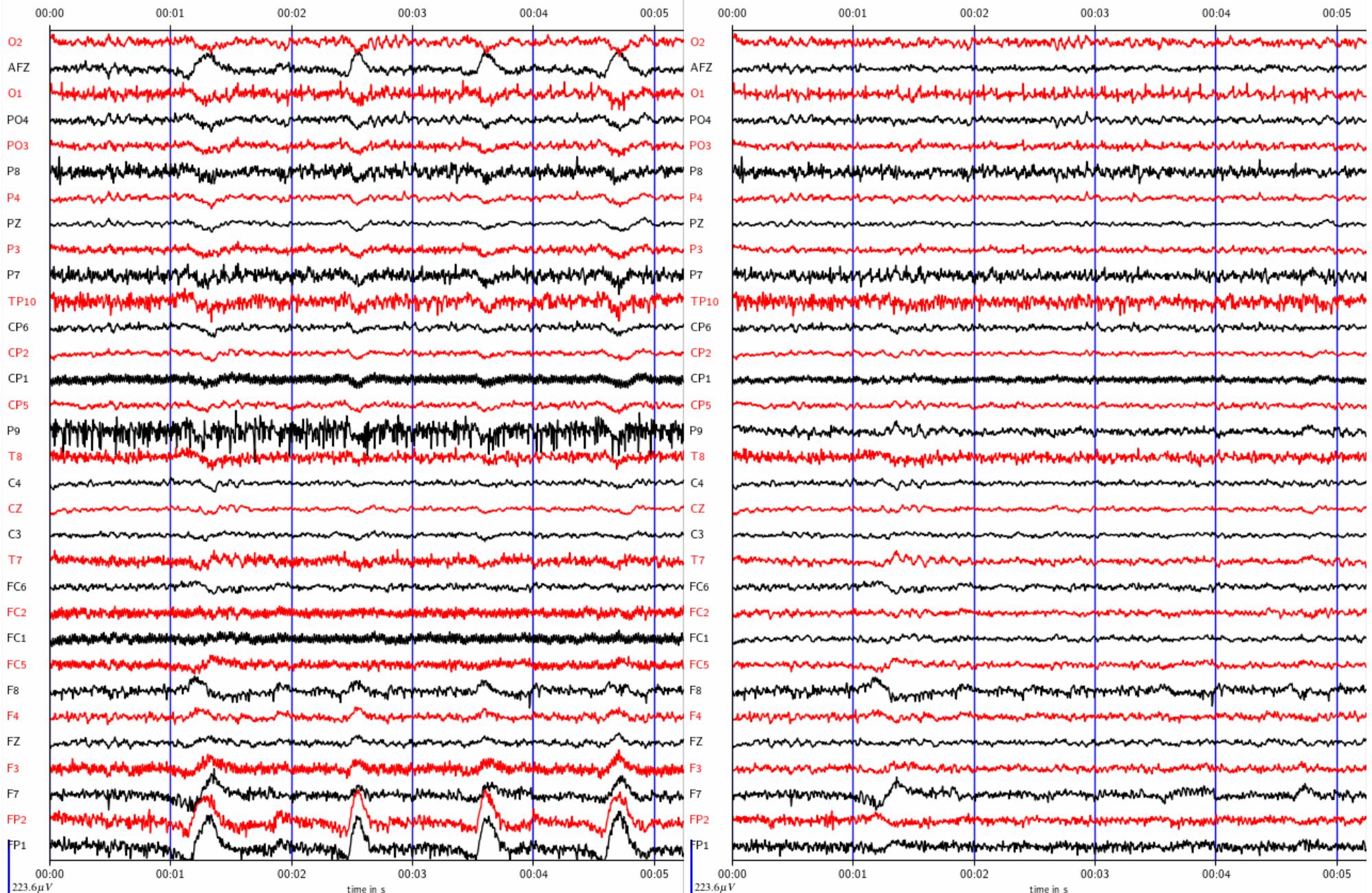
# S18 – ERP all channels

# **S18 – ERP CCA**

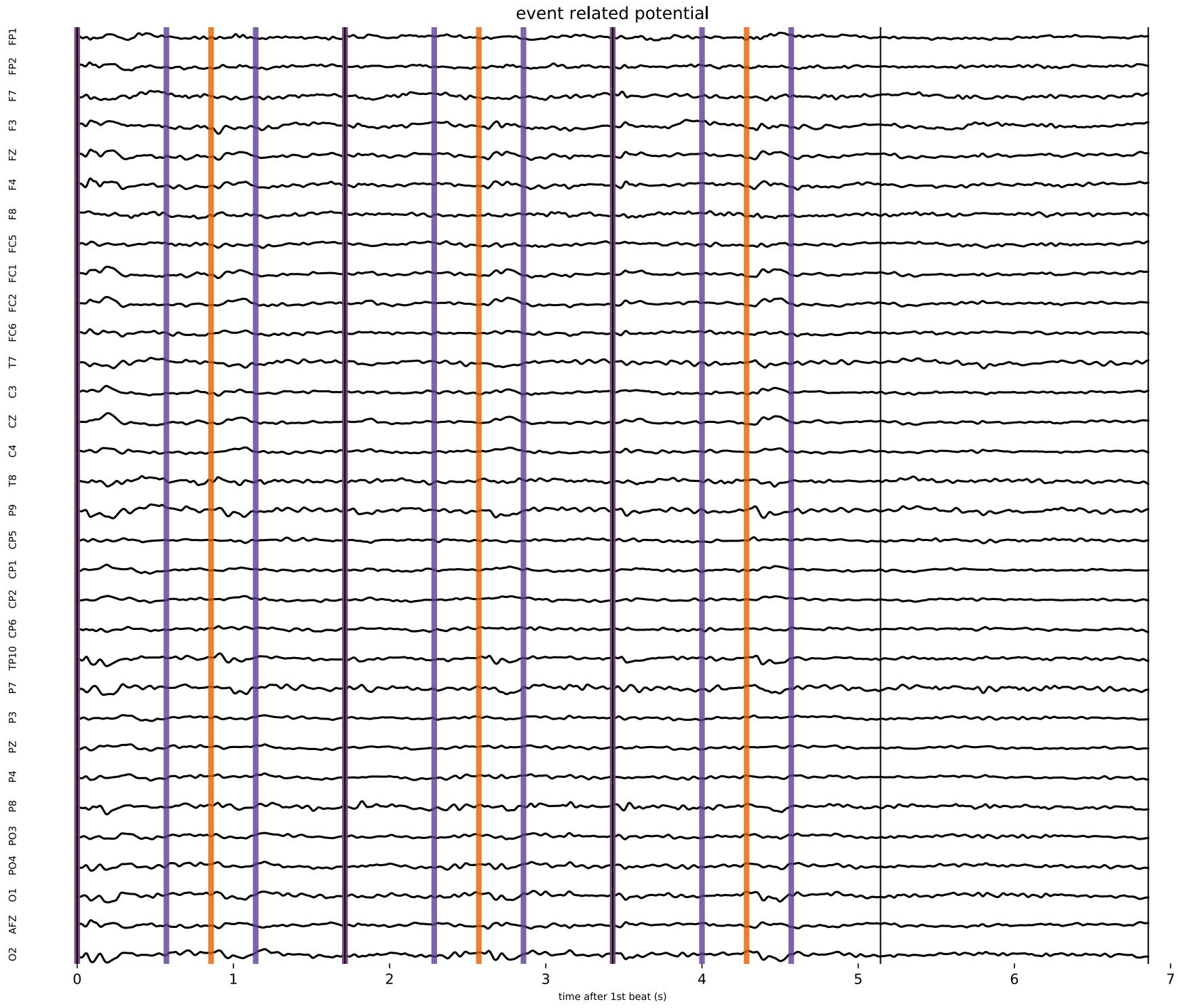
# S19 – Performance



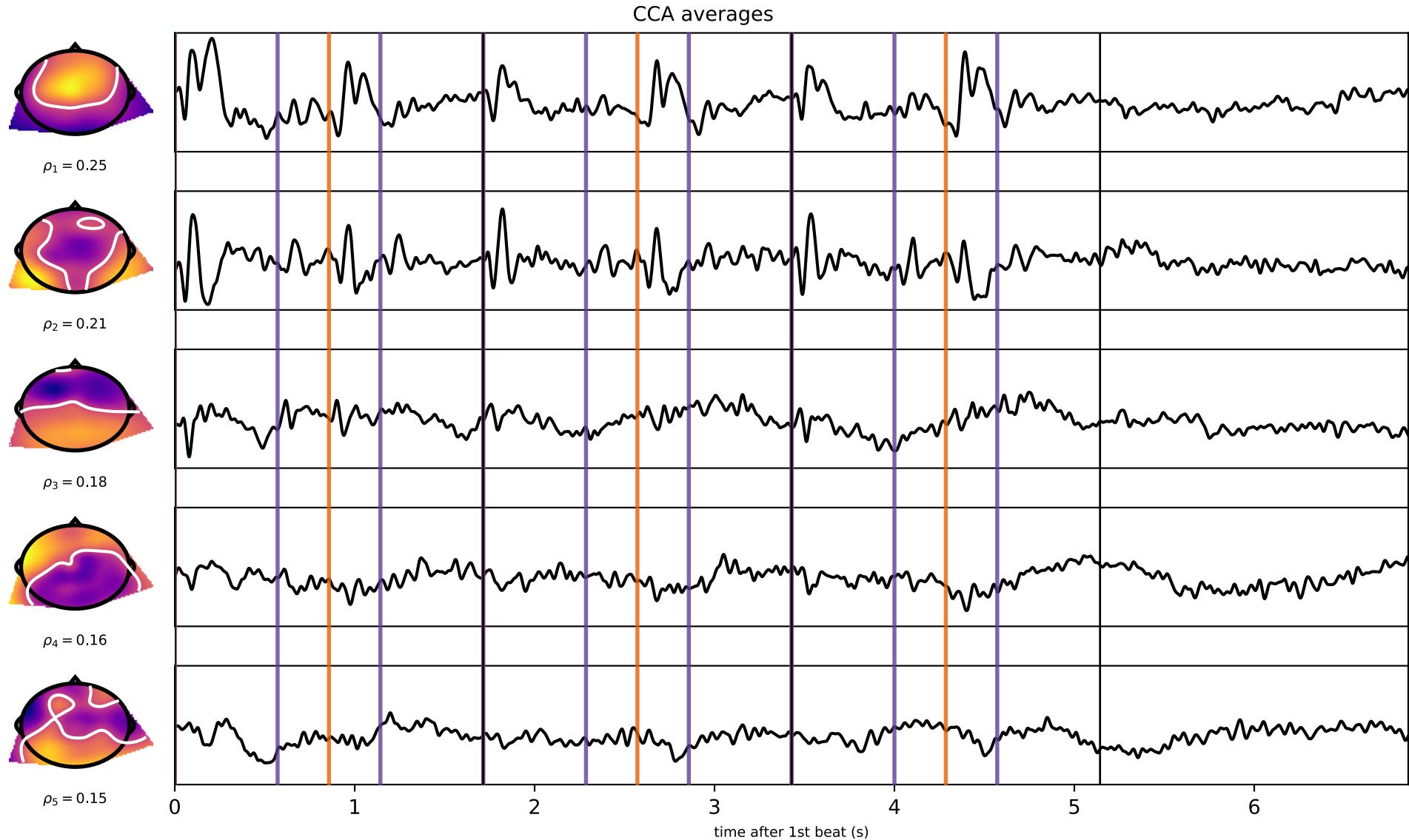
# S19 — Data Cleaning



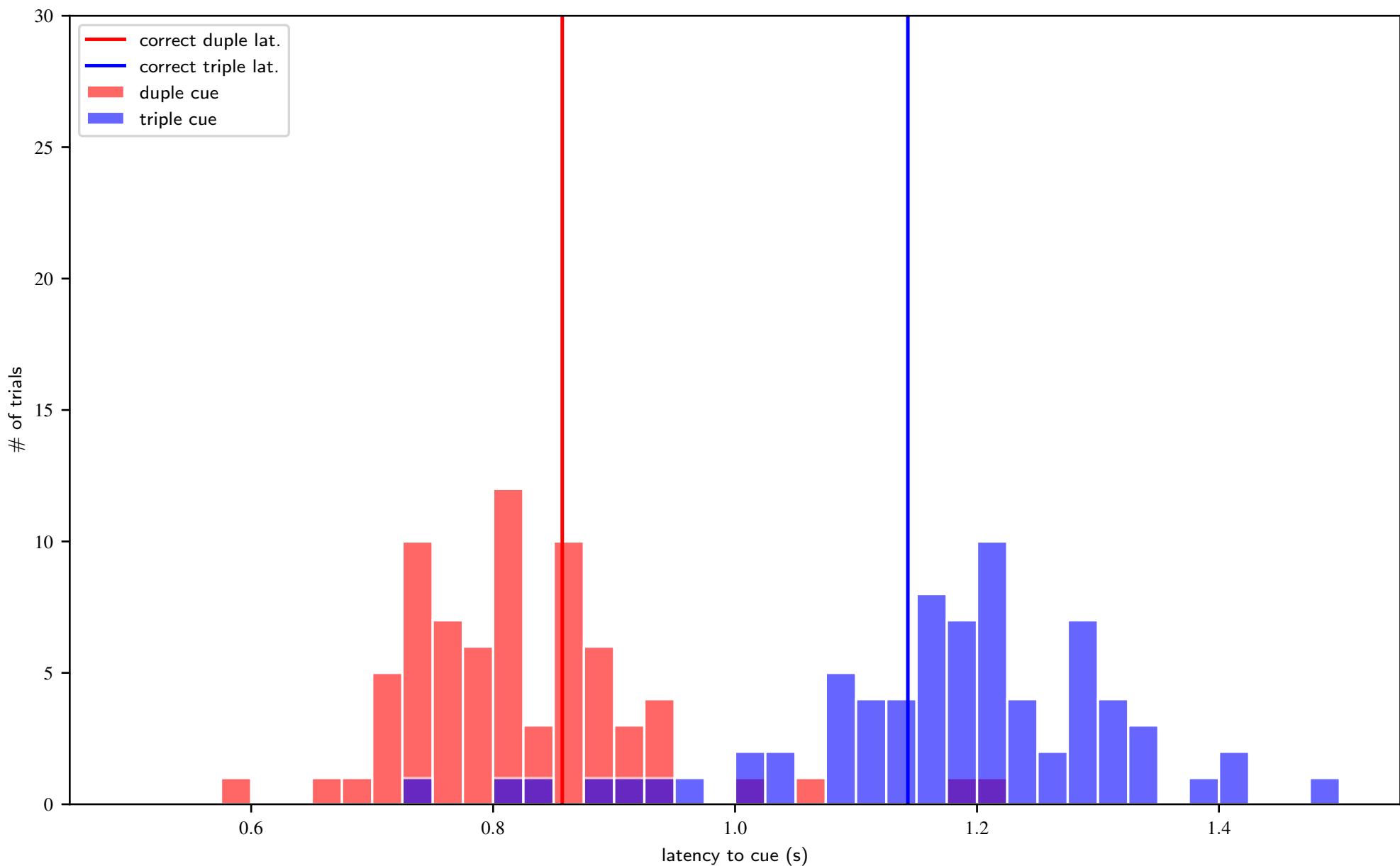
# S19 – ERP all channels



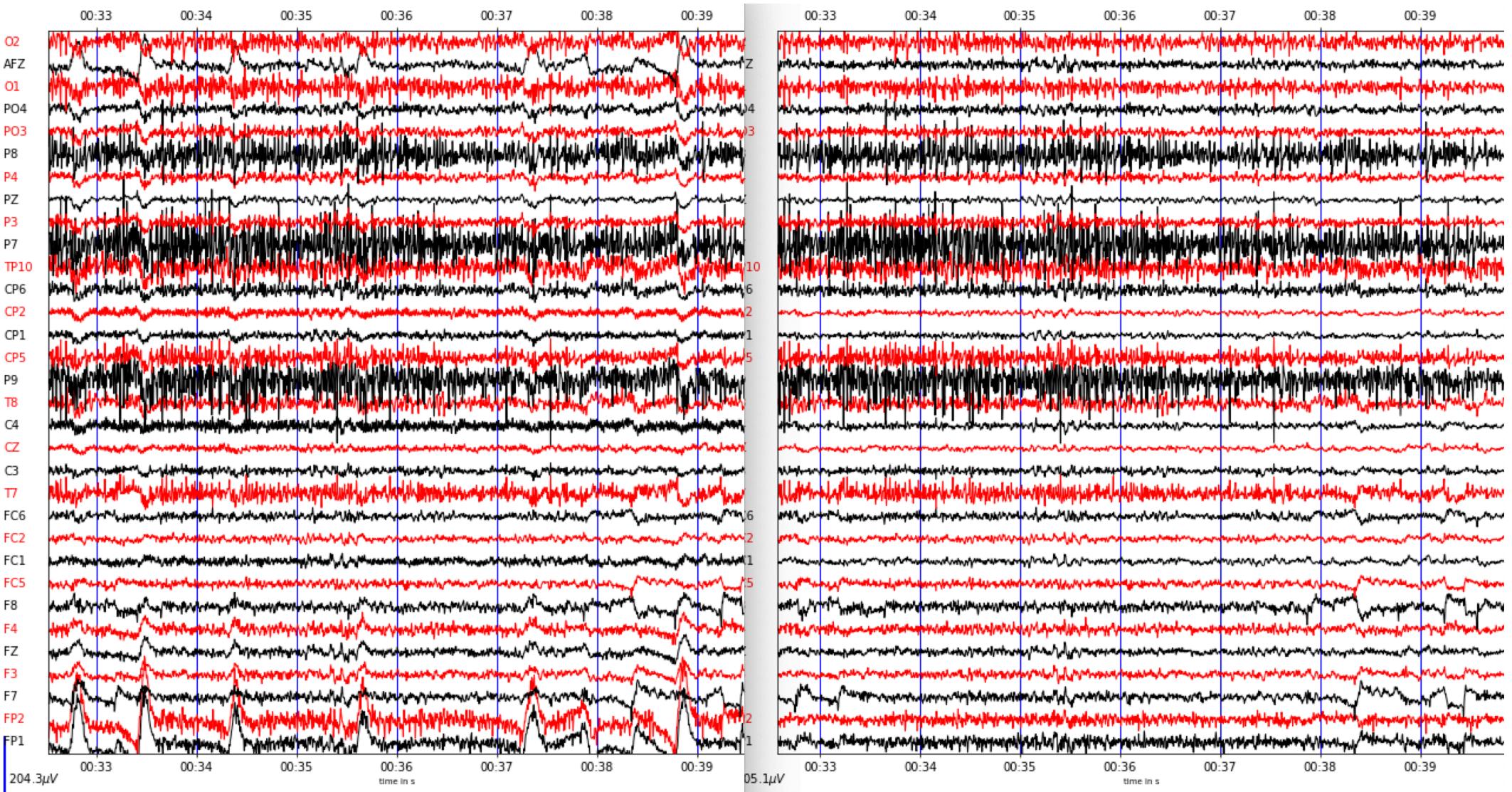
# S19 – ERP CCA



# S20 – Performance



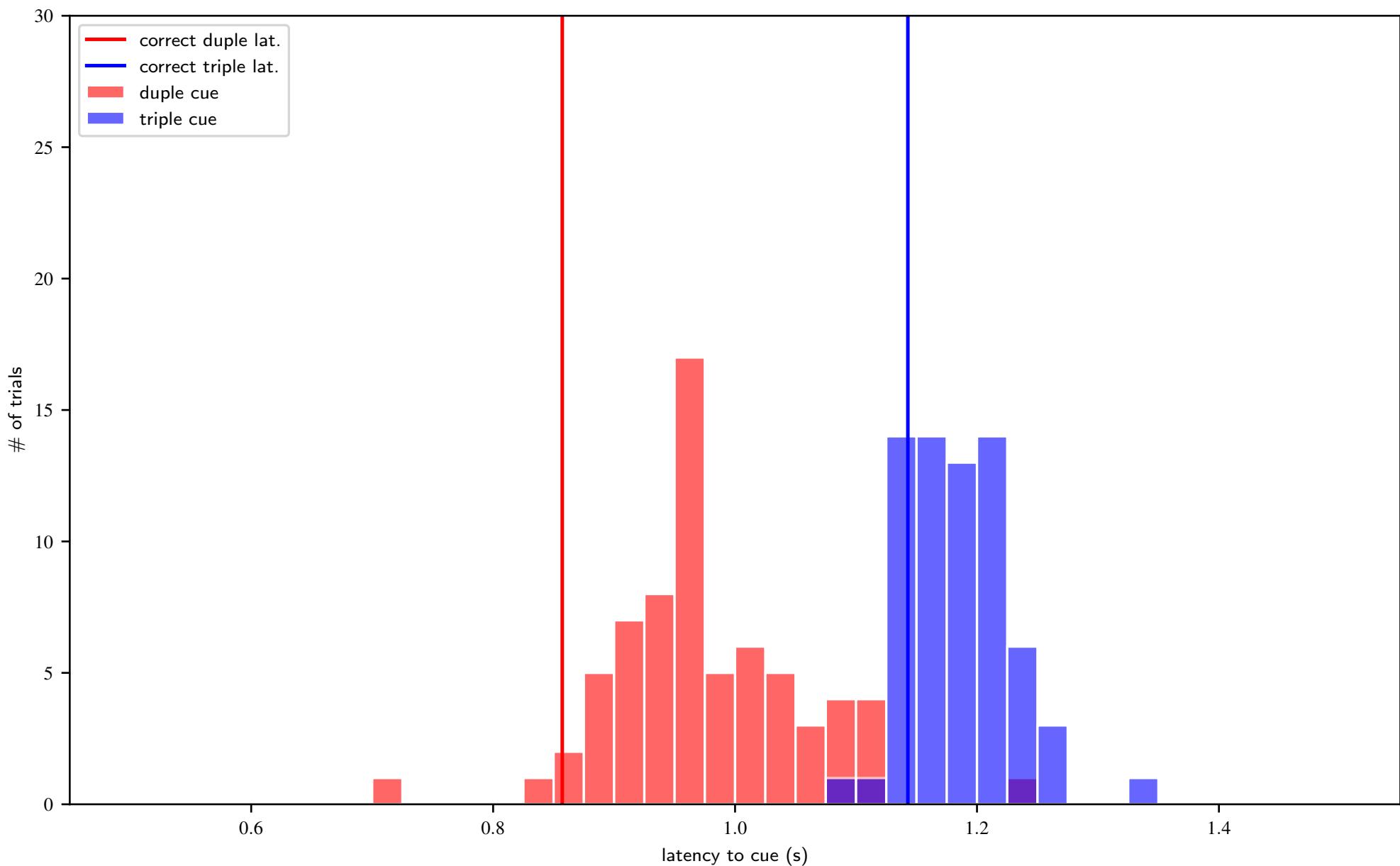
# S20 — Data Cleaning



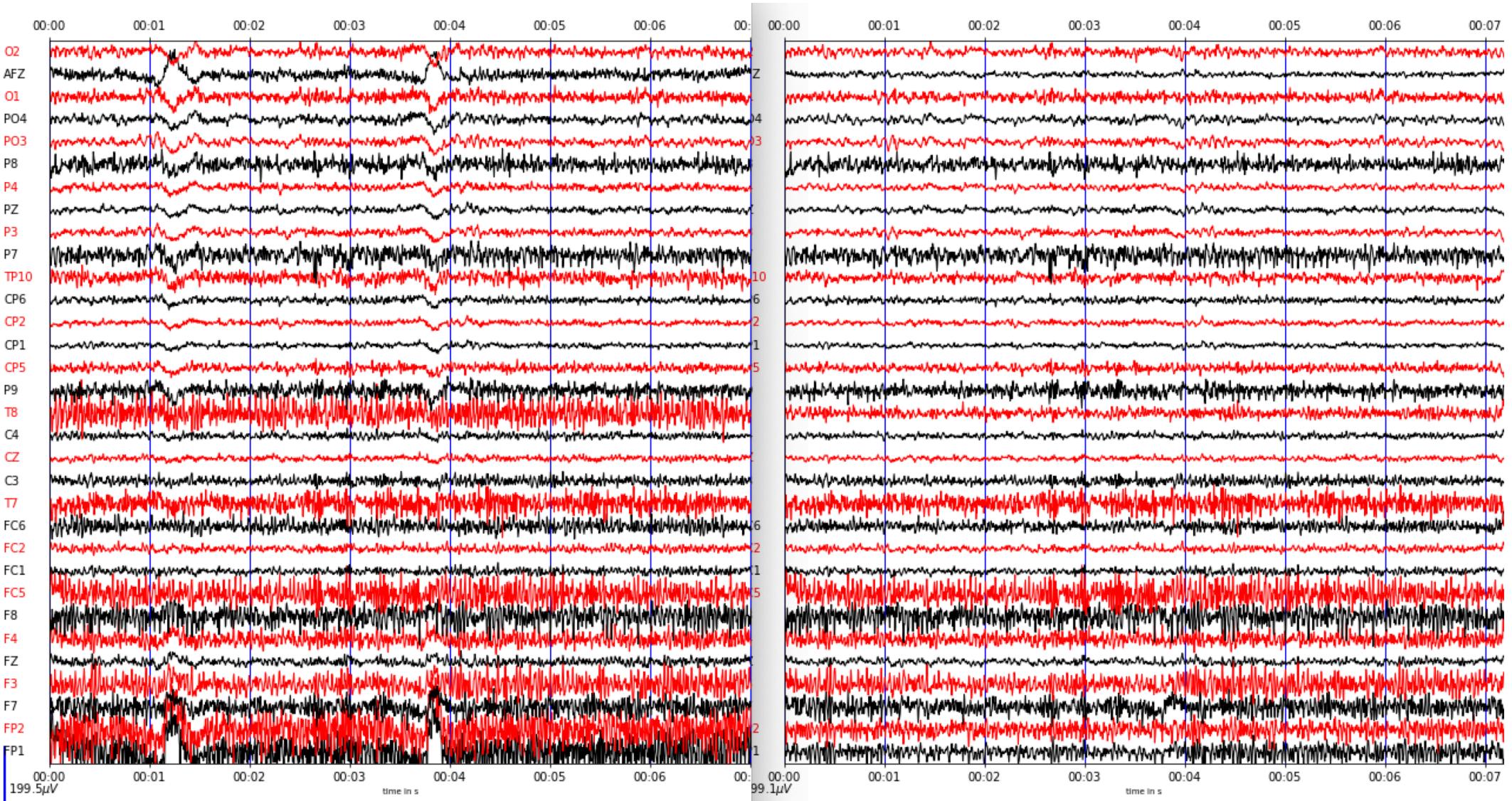
S20 – ERP all channels

# **S20 – ERP CCA**

# S21 — Performance

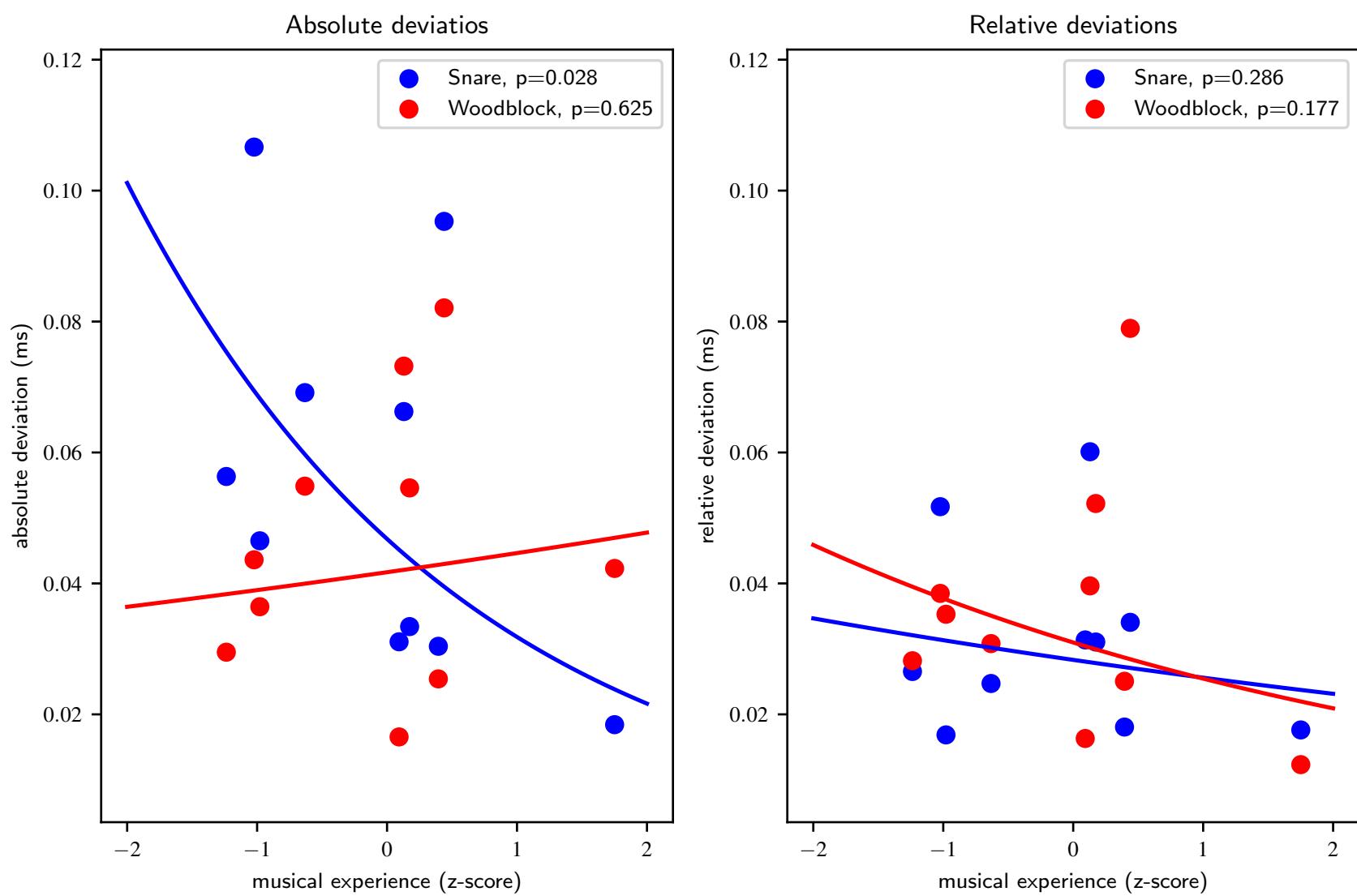


# S21 — Data Cleaning



# S21 – ERP all channels

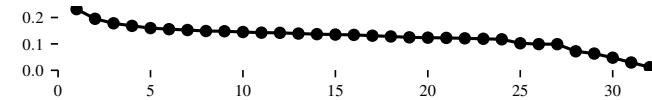
# All 21 Subjects – Performance vs. Musical Experience



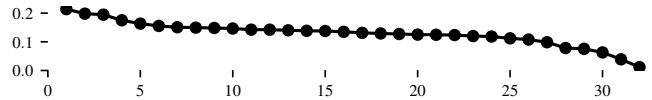
# **S21 – ERP CCA**

# All 21 Subjects – SSD Patterns

not normalized



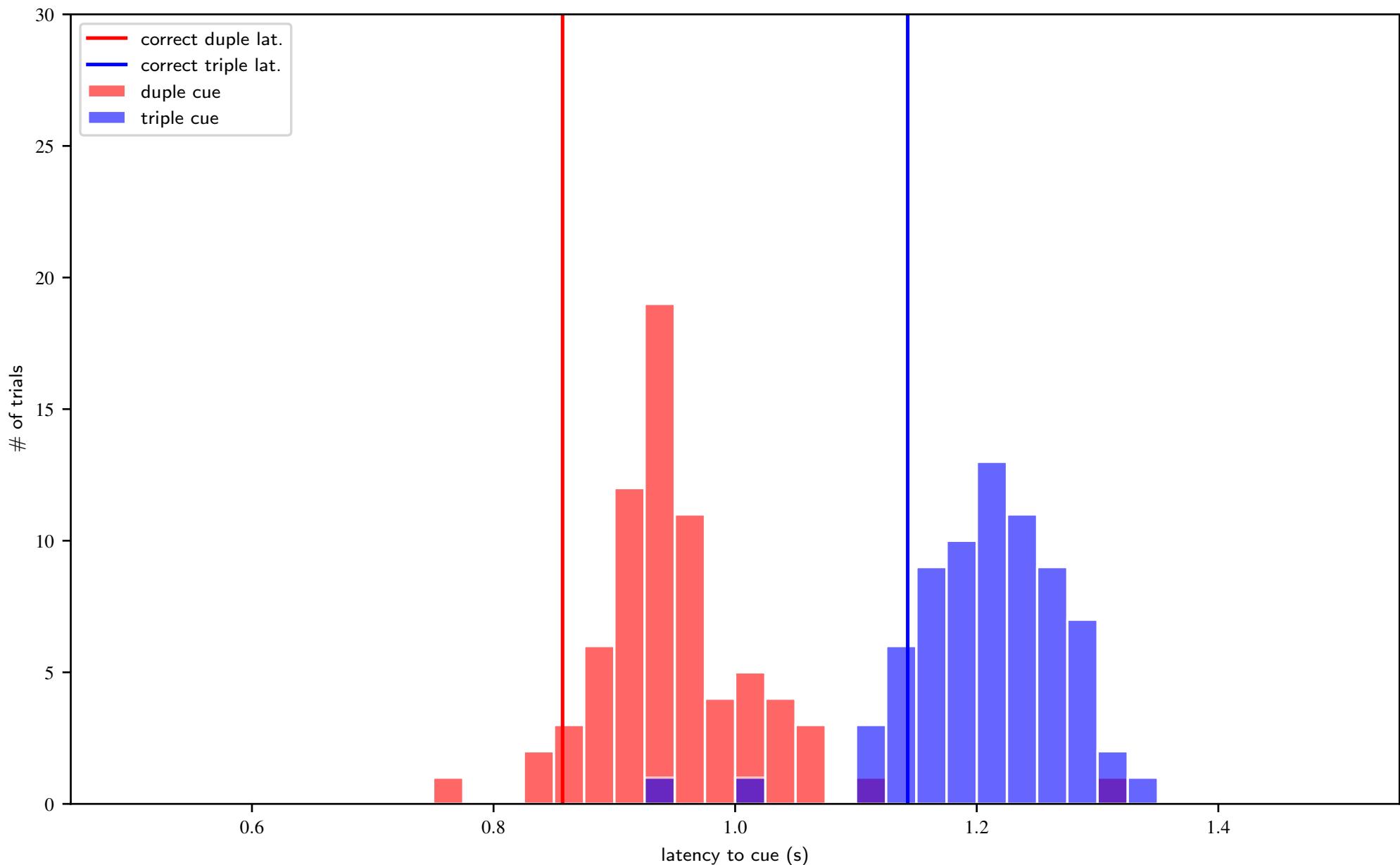
normalized



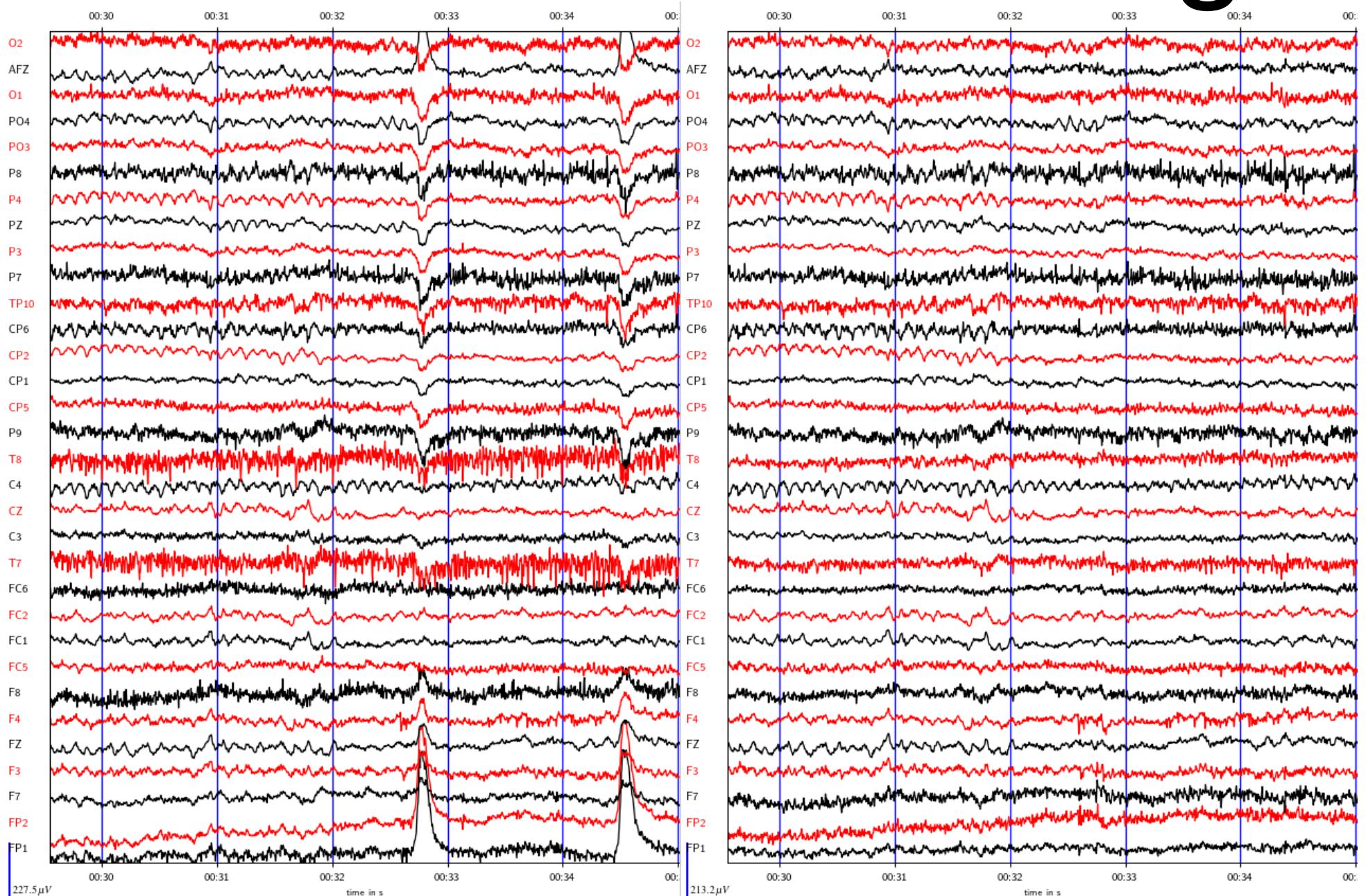
# Polyrhythm Project

Results 2019

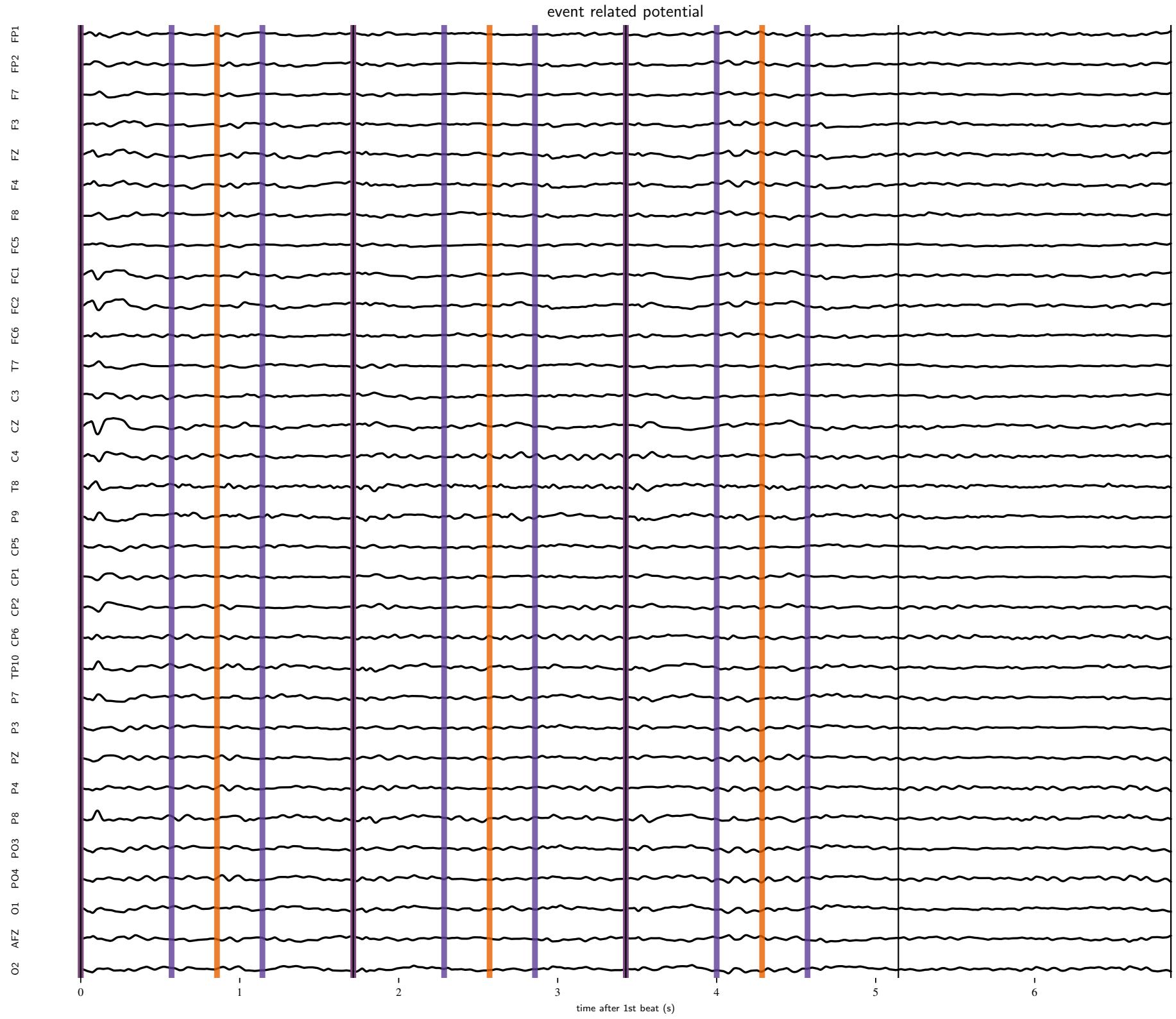
# S01 — Performance



# S01 — Data Cleaning



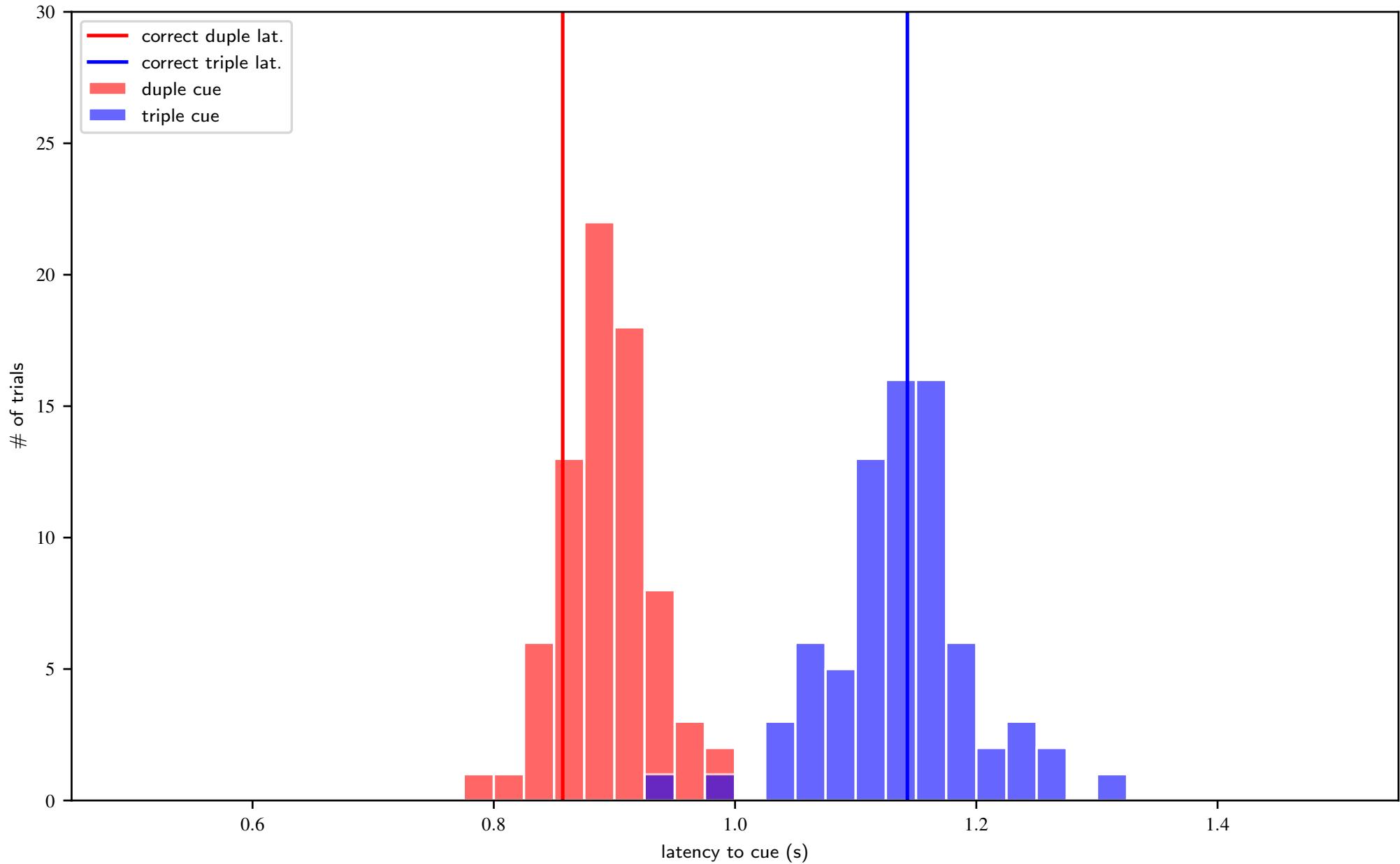
# S01 — ERP all channels



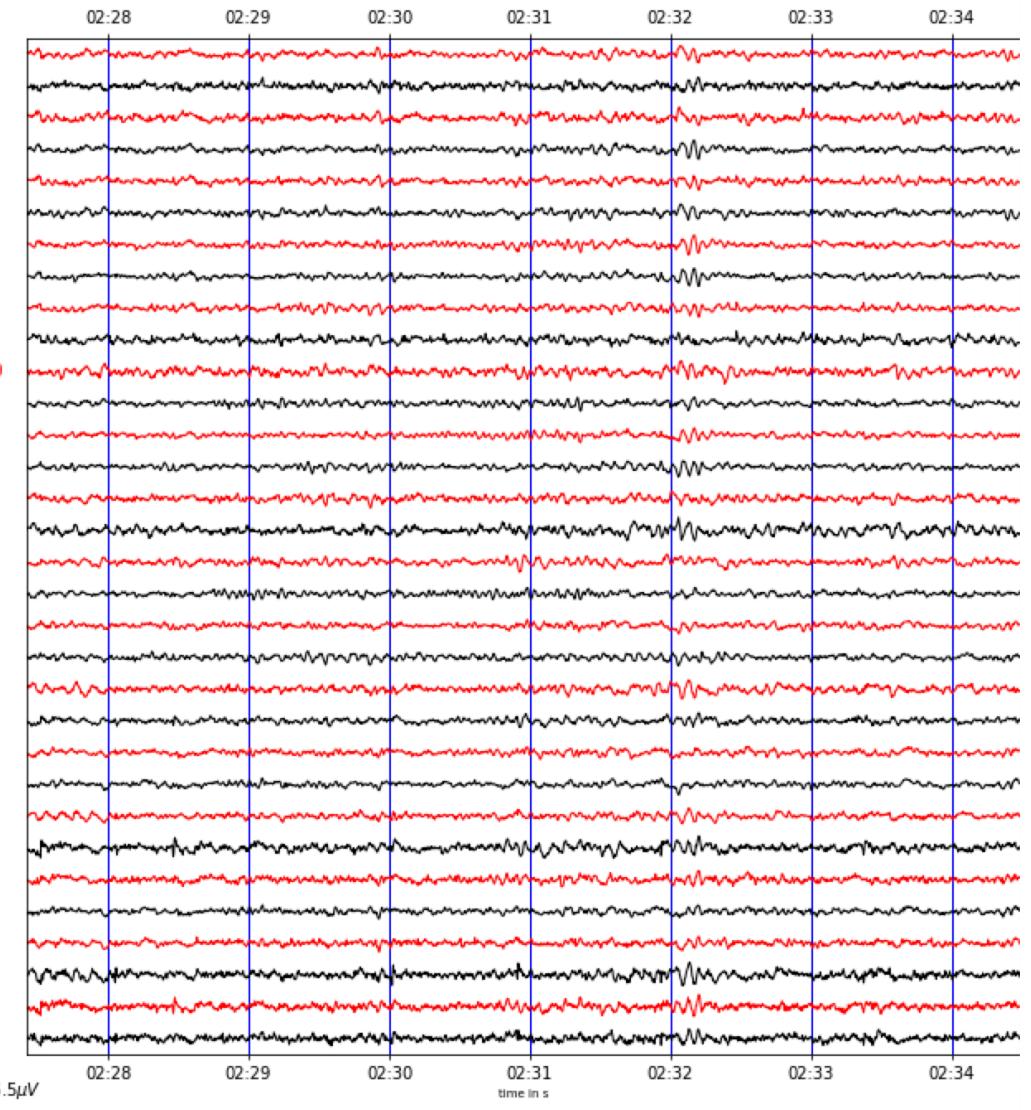
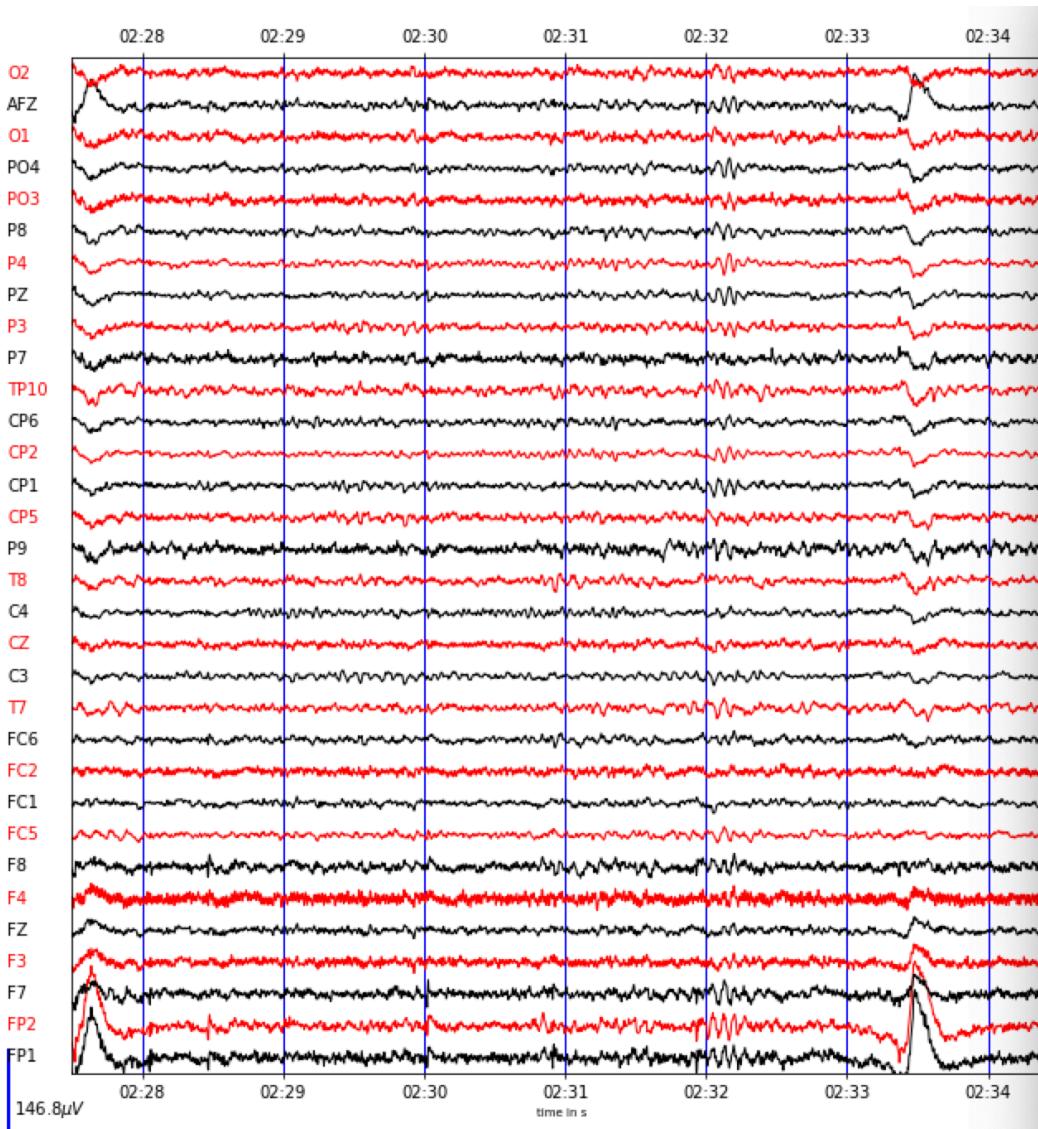
# S01 — ERP CCA



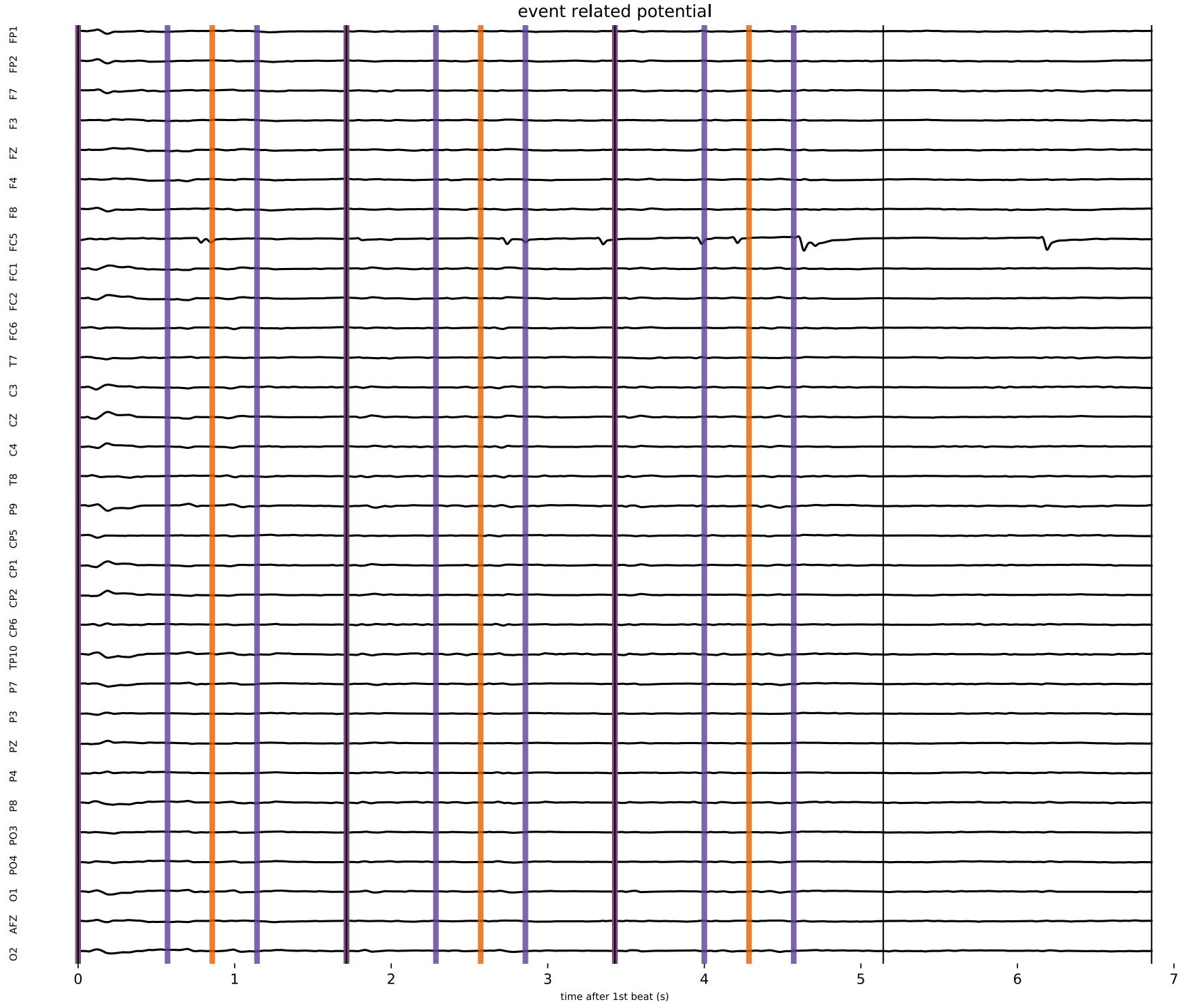
# S02 – Performance



# S02 — Data Cleaning



# SO2 – ERP all channels



# S02 – ERP CCA



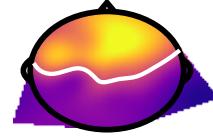
$\rho_1 = 0.35$



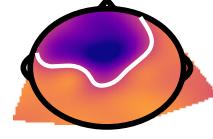
$\rho_2 = 0.25$



$\rho_3 = 0.22$

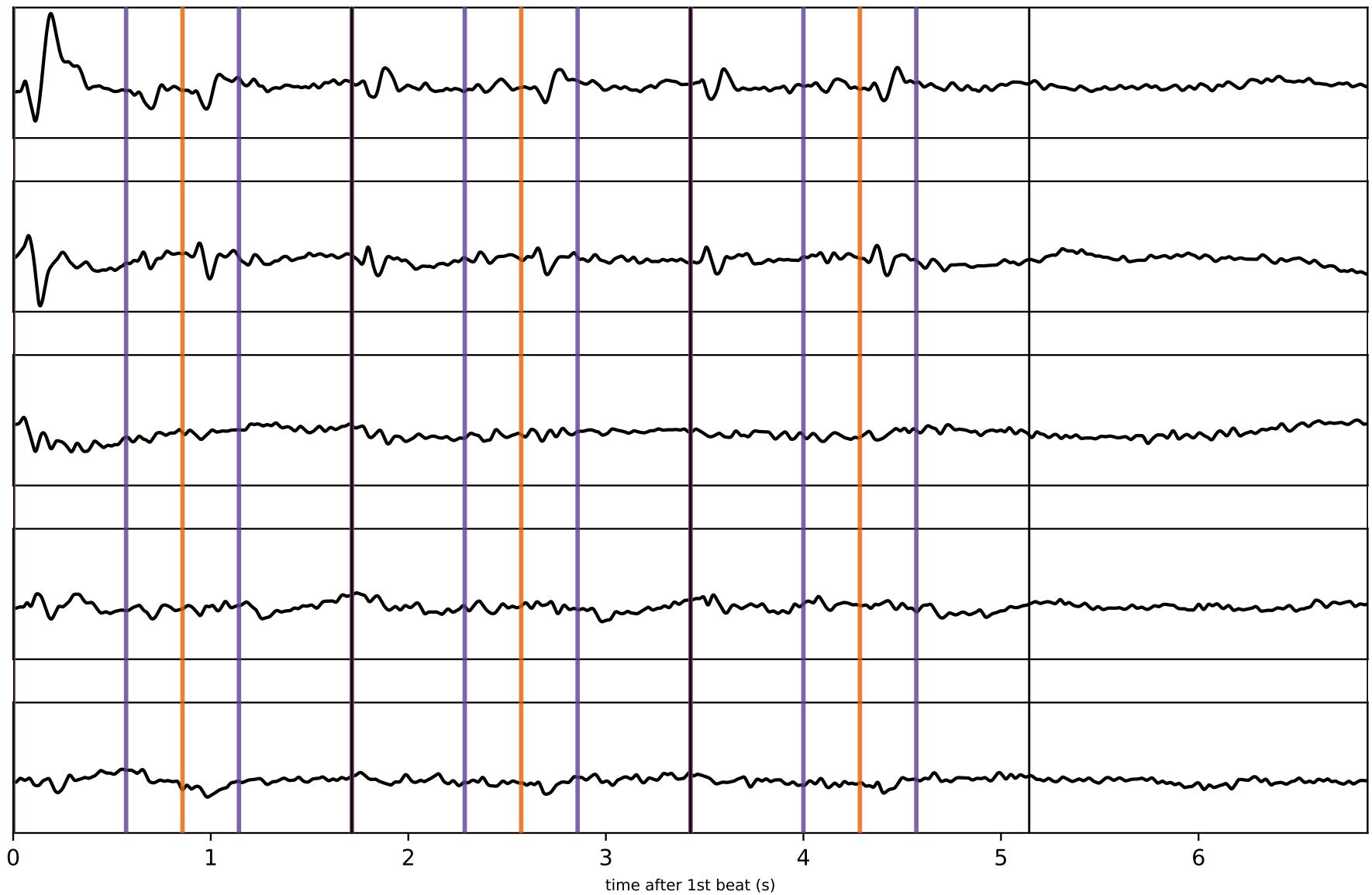


$\rho_4 = 0.19$

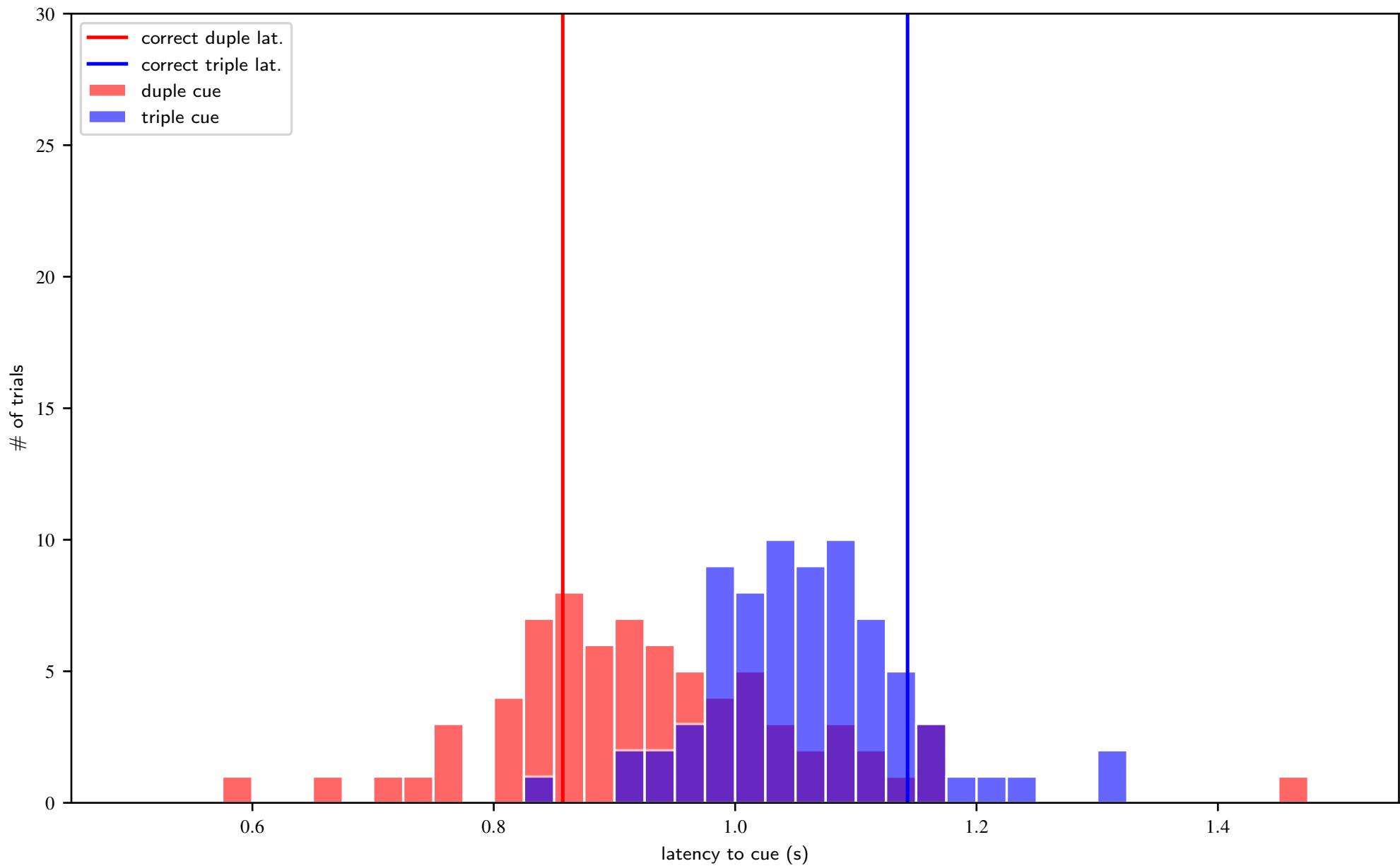


$\rho_5 = 0.17$

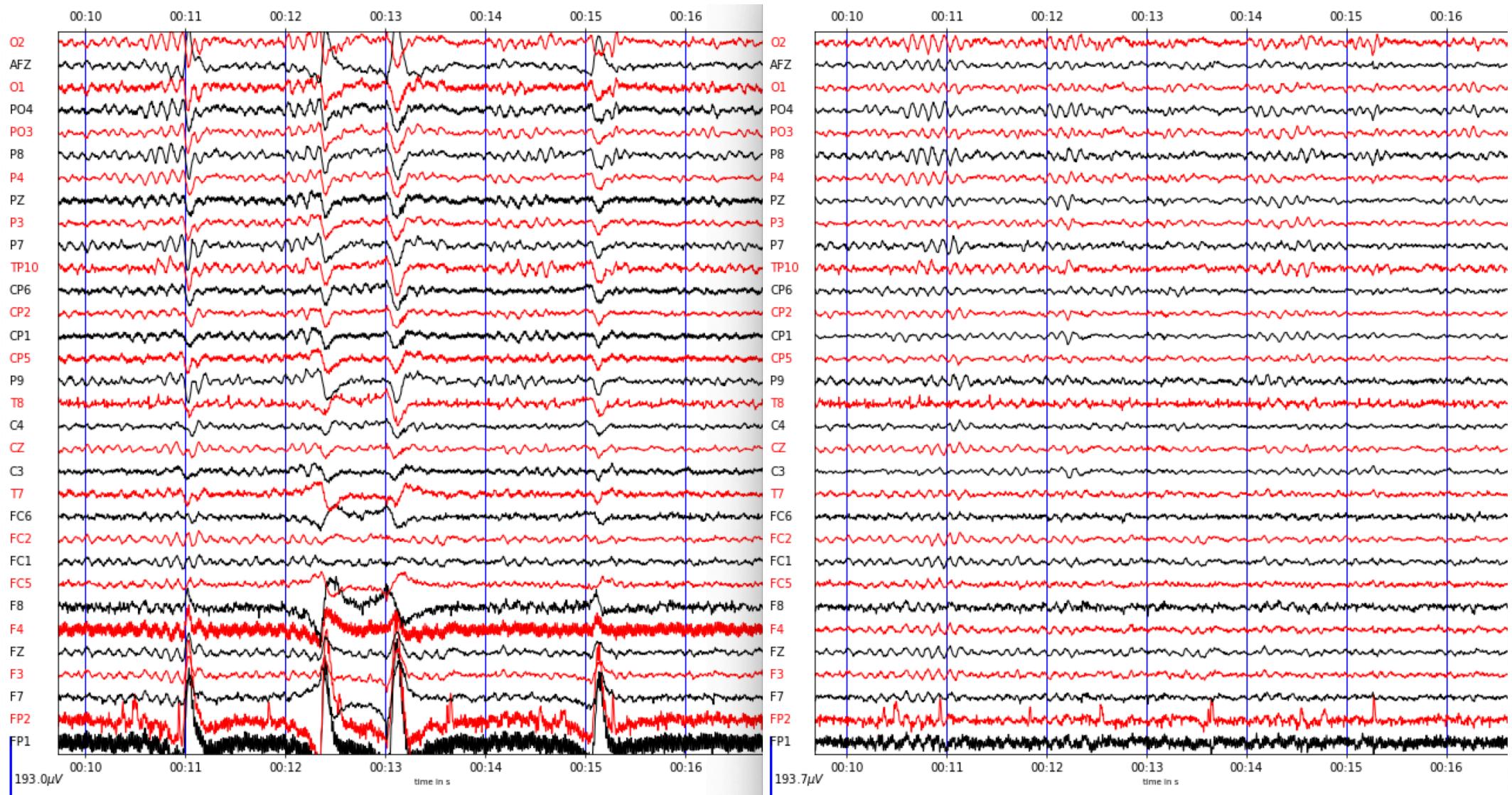
CCA averages



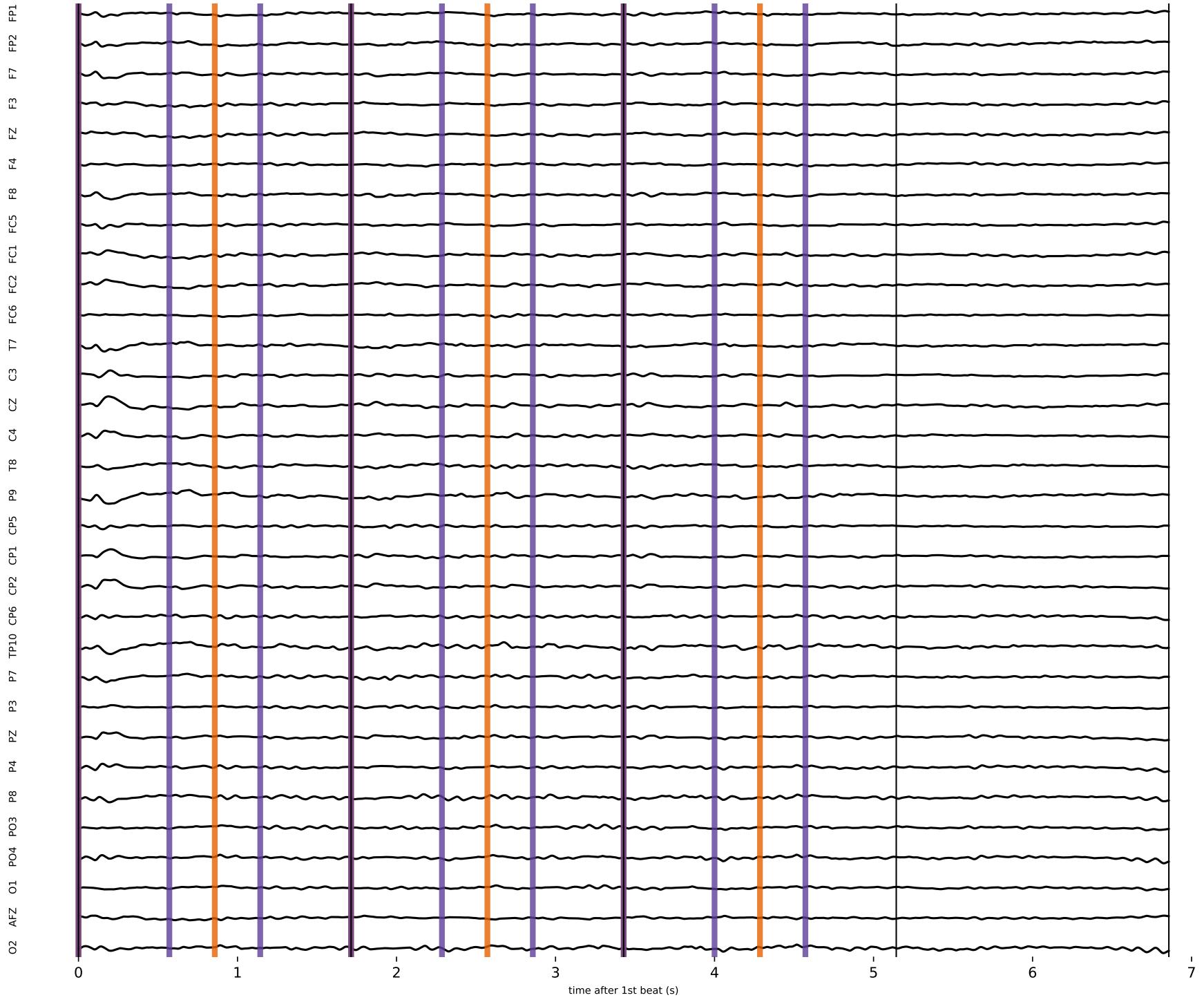
# S03 – Performance



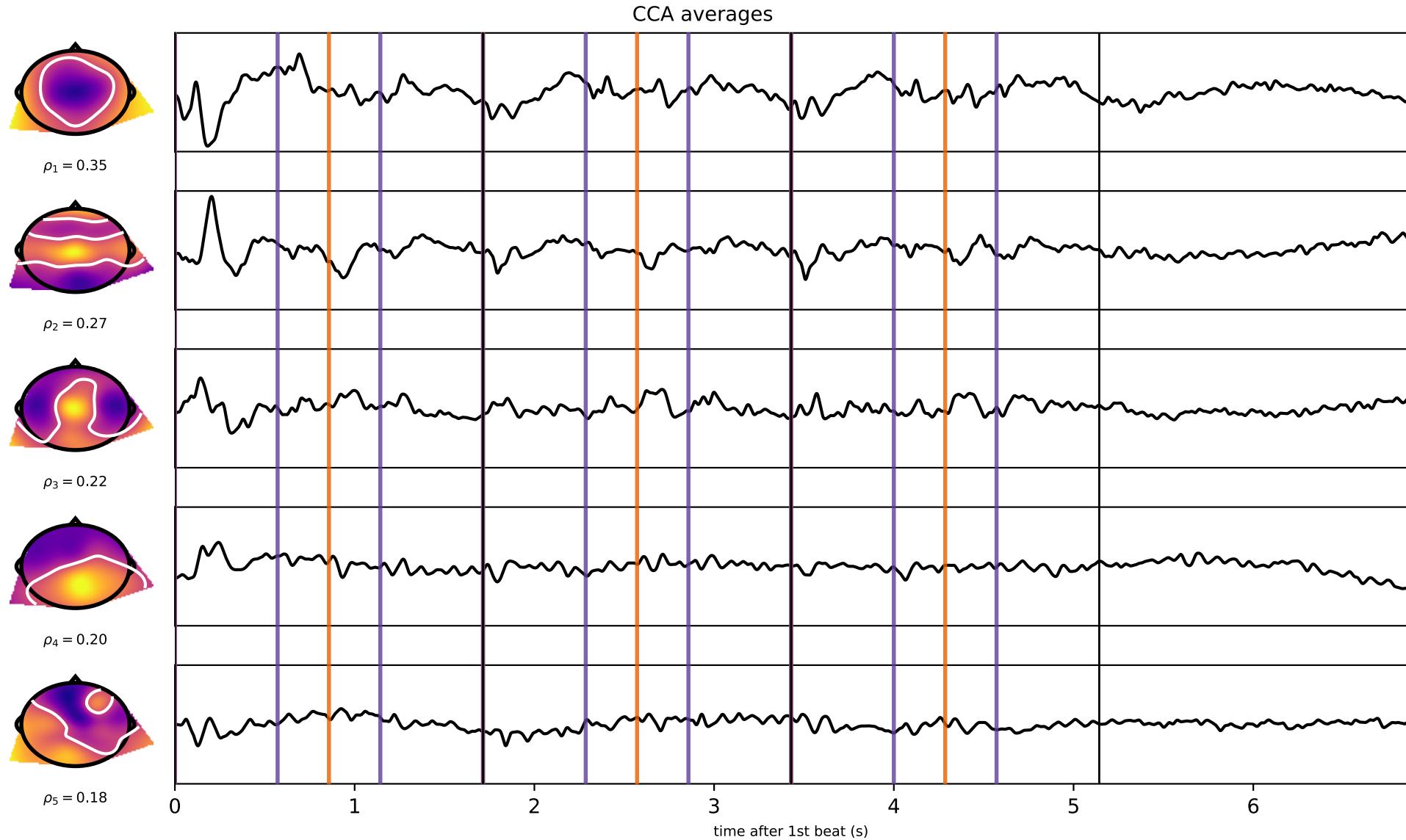
# S03 — Data Cleaning



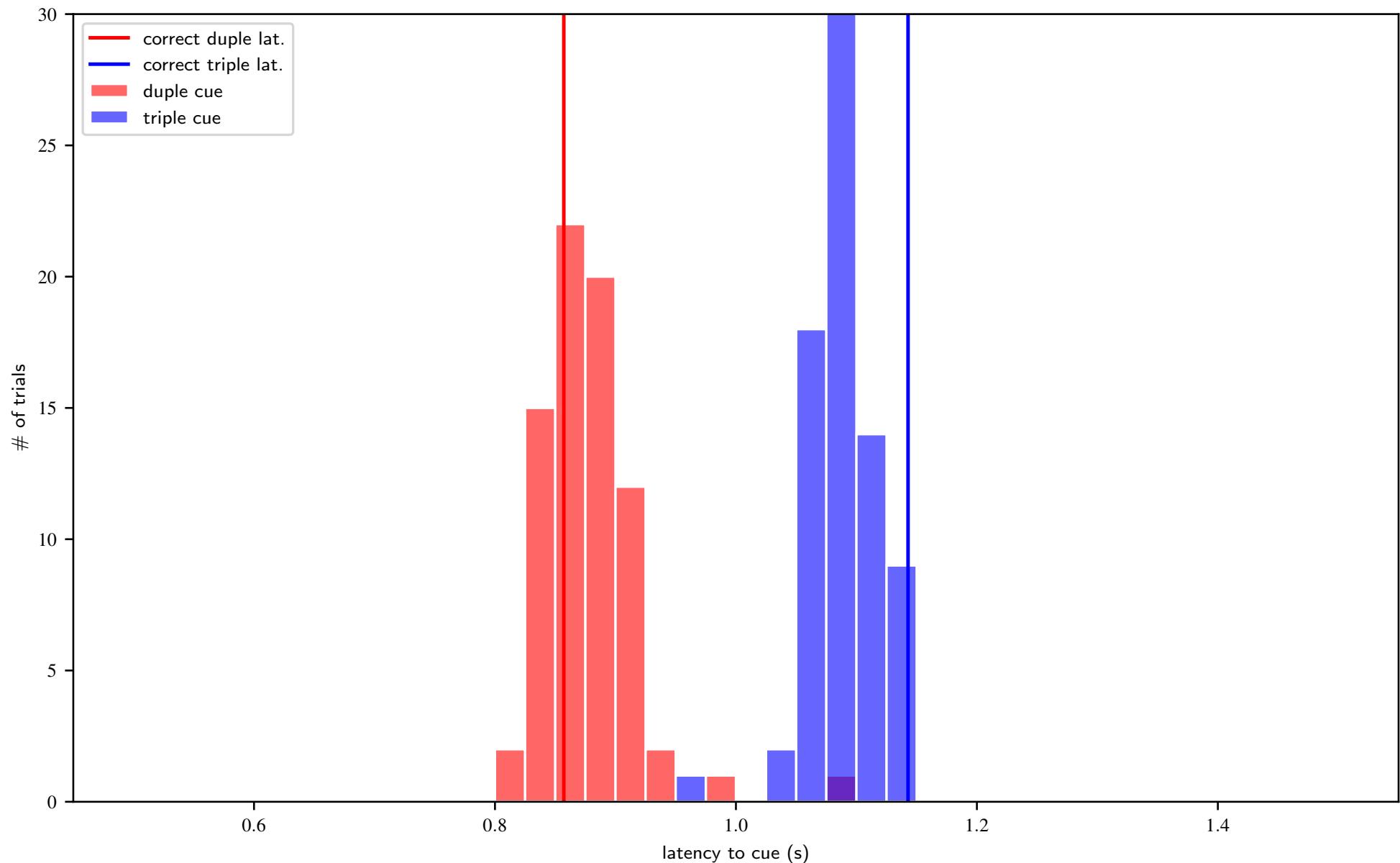
# SO3 — ERP all channels



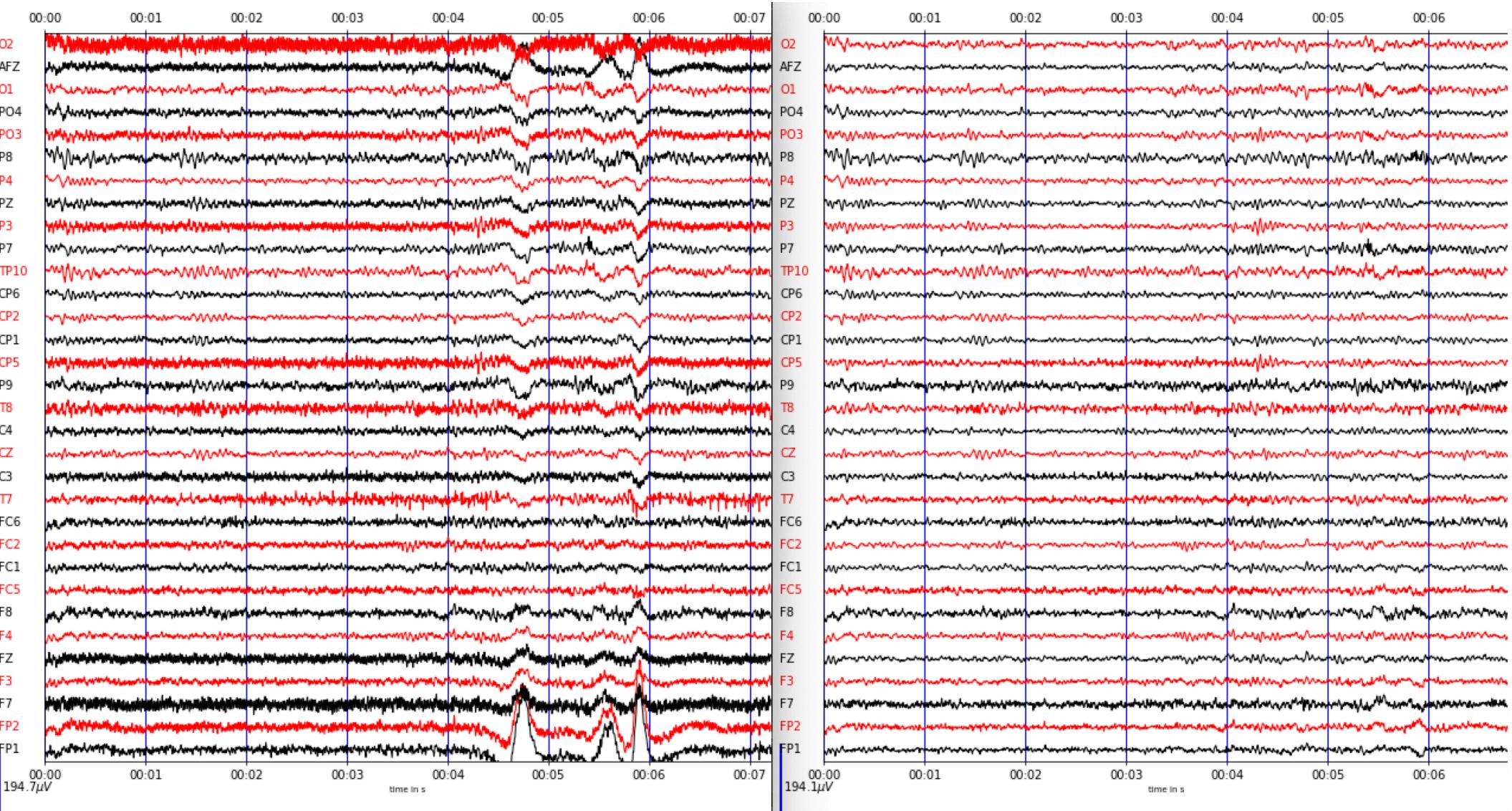
# S03 – ERP CCA



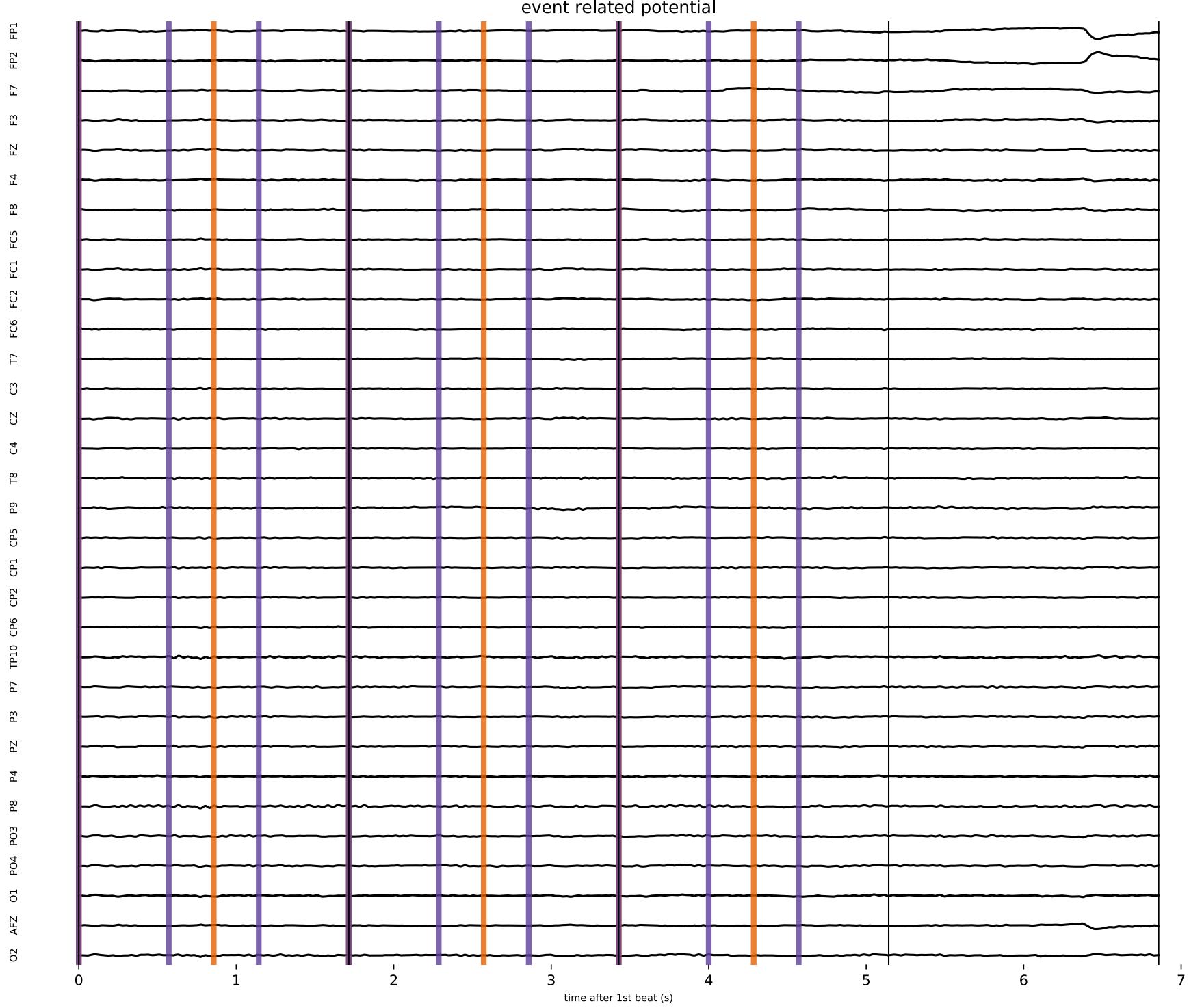
# S04 — Performance



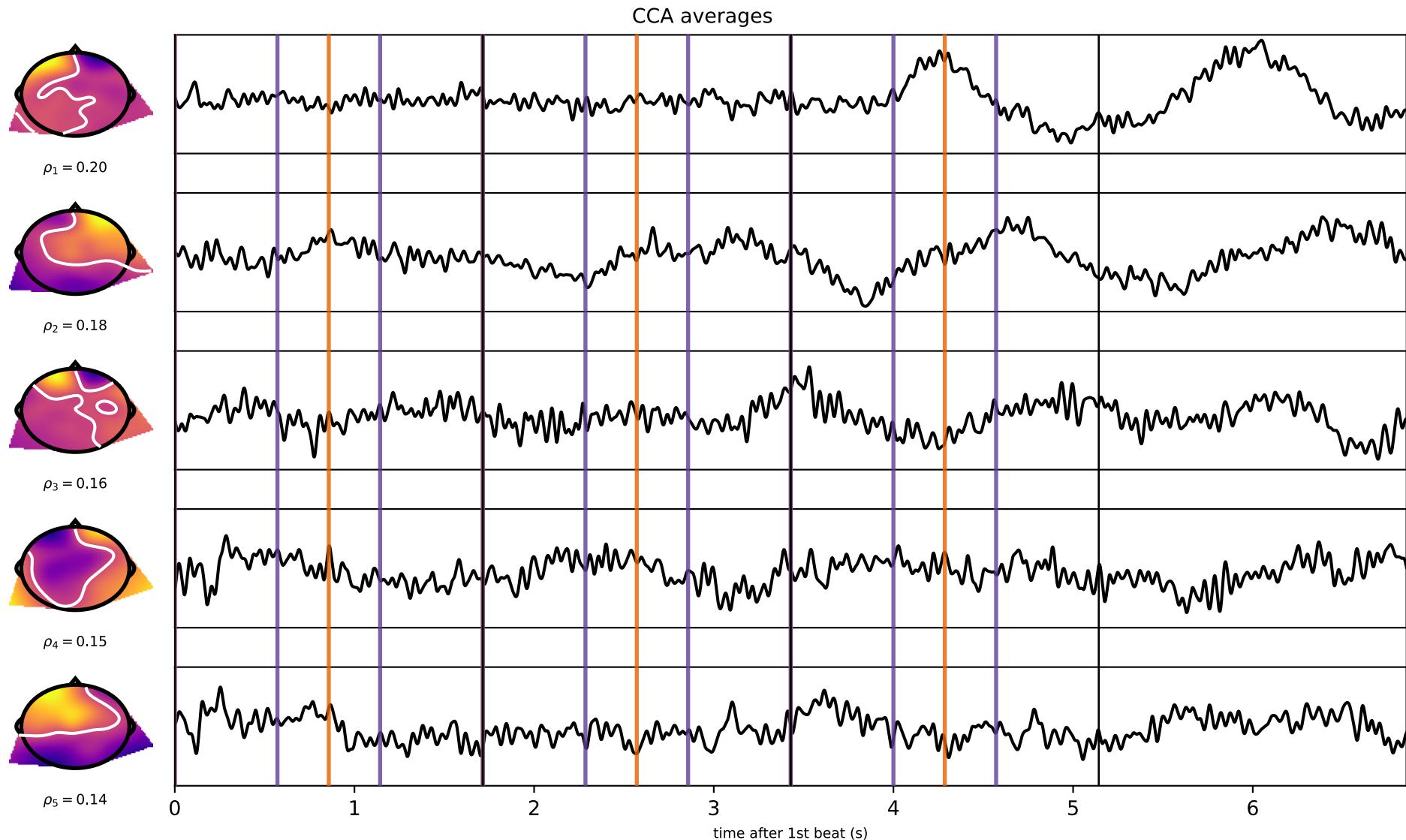
# S04 — Data Cleaning



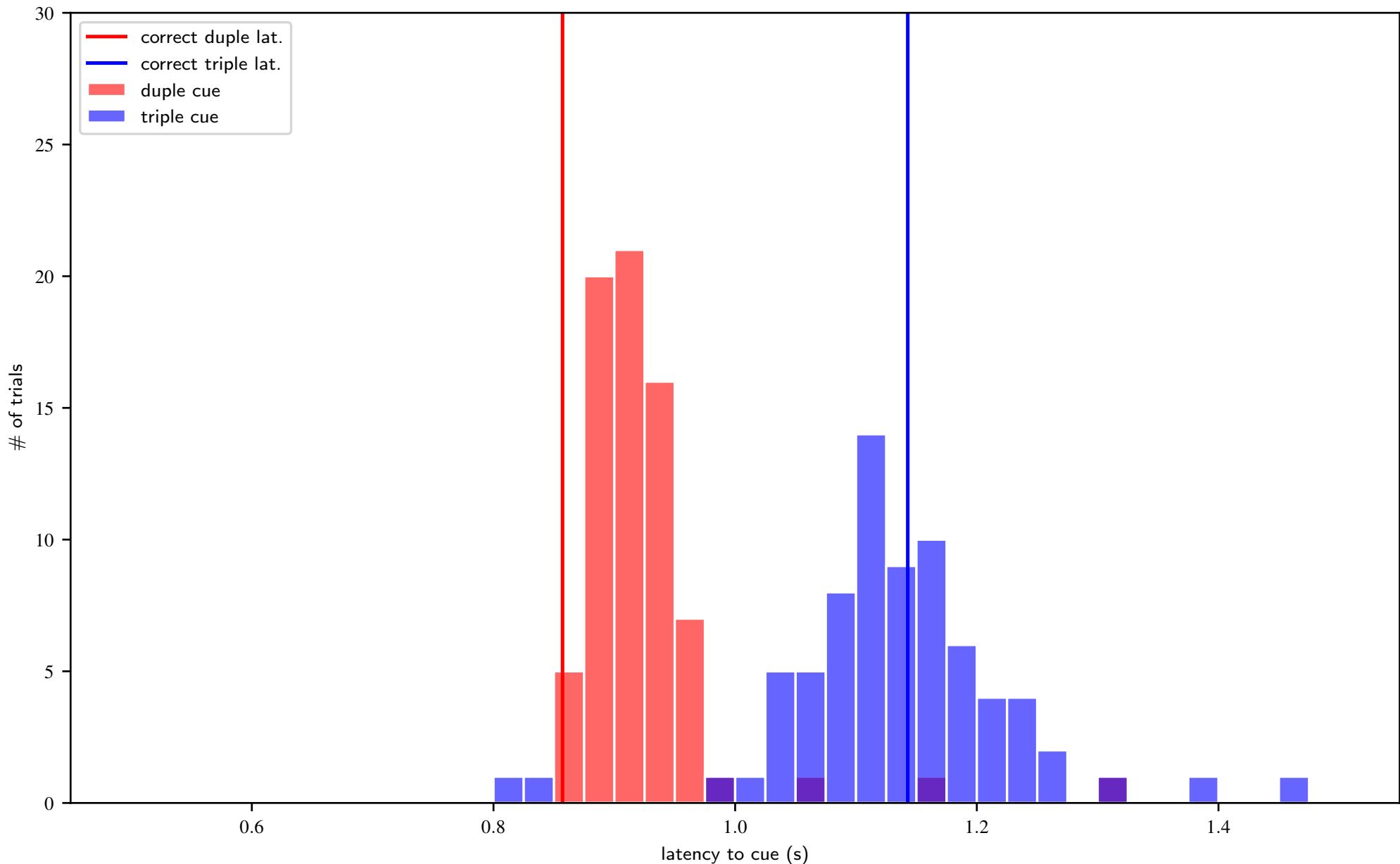
# S04 — ERP all channels



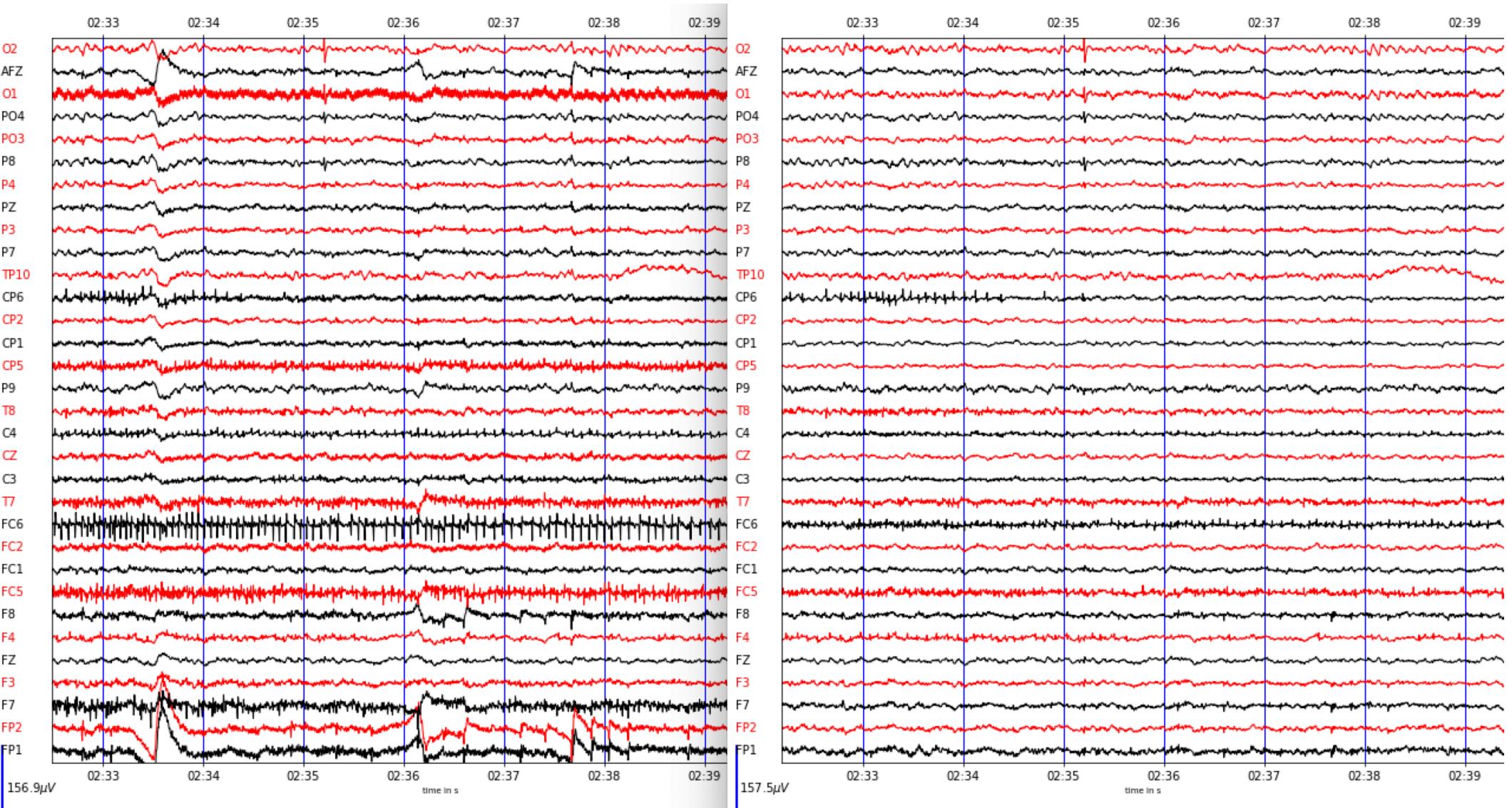
# S04 — ERP CCA



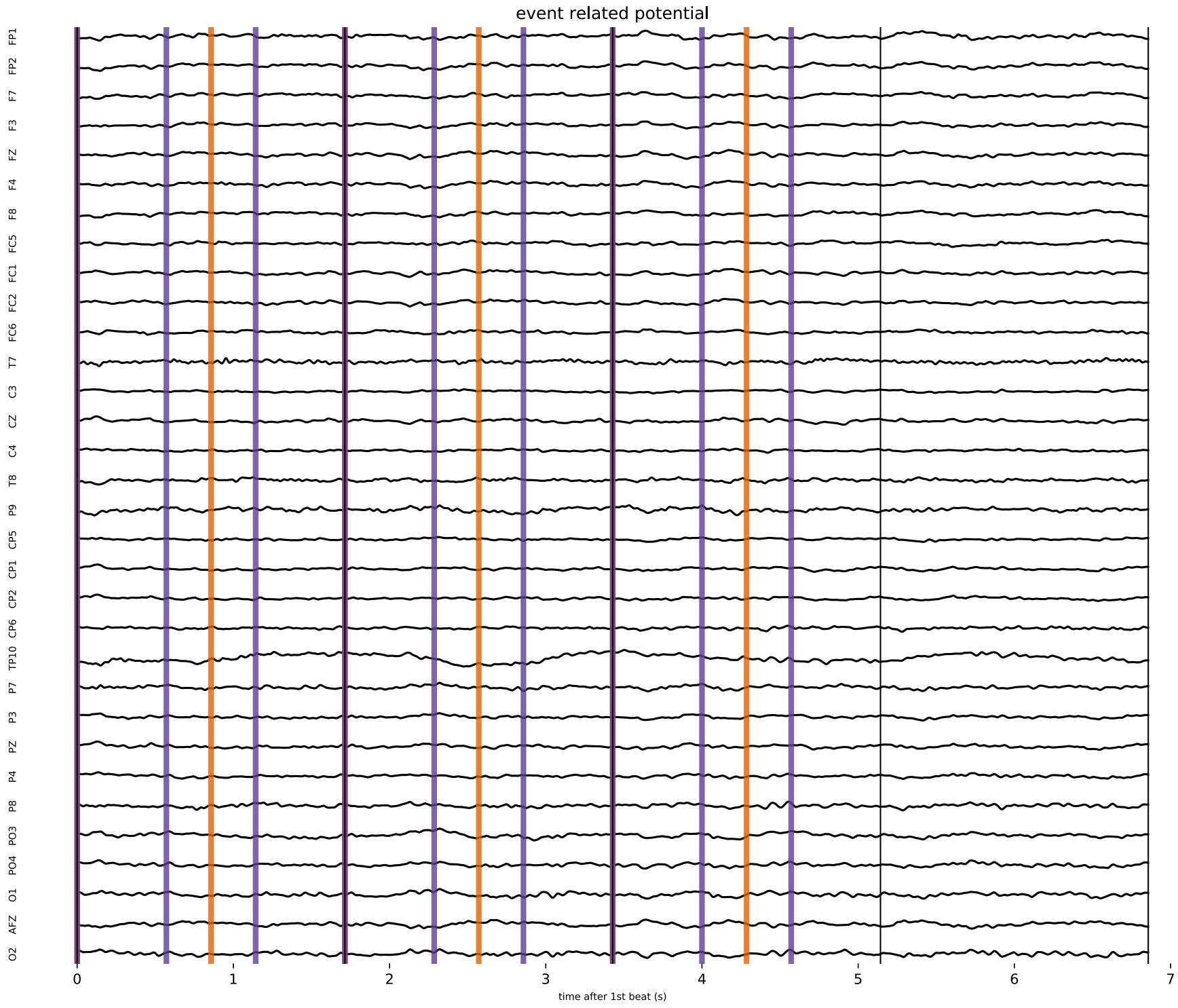
# S05 – Performance



# S05 — Data Cleaning



# S05 – ERP all channels



# S05 – ERP CCA



$\rho_1 = 0.25$



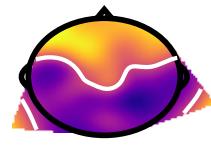
$\rho_2 = 0.24$



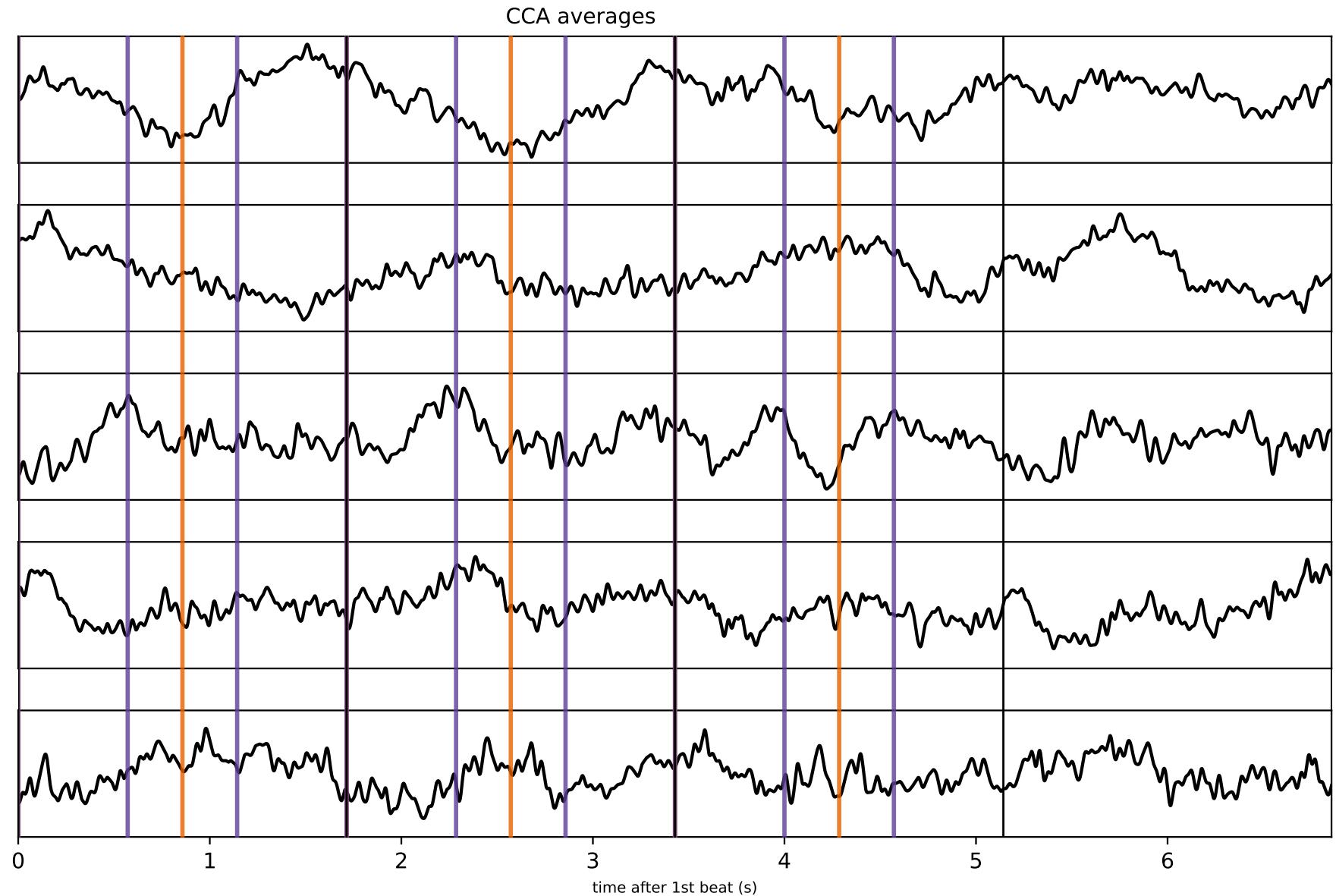
$\rho_3 = 0.21$



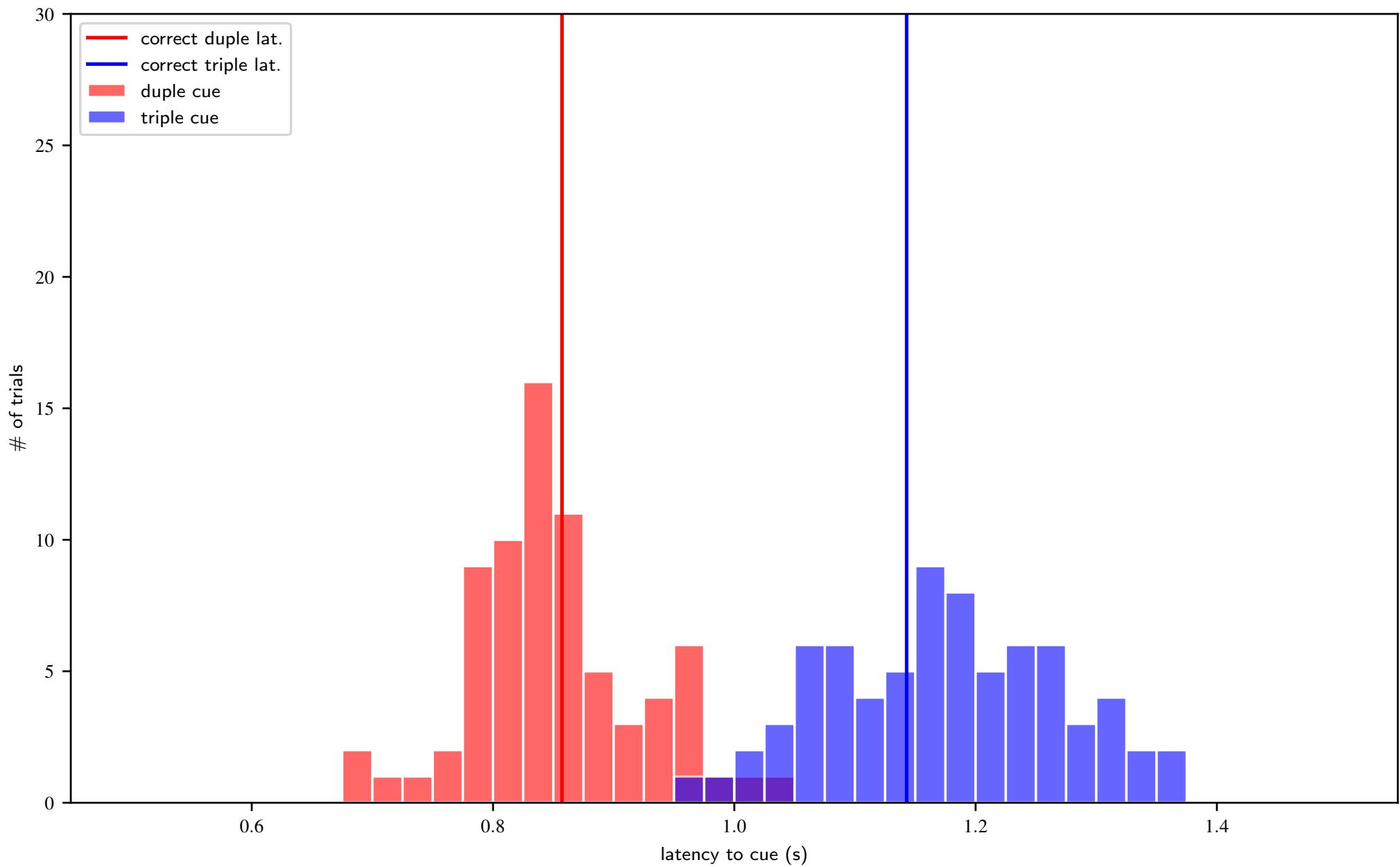
$\rho_4 = 0.19$



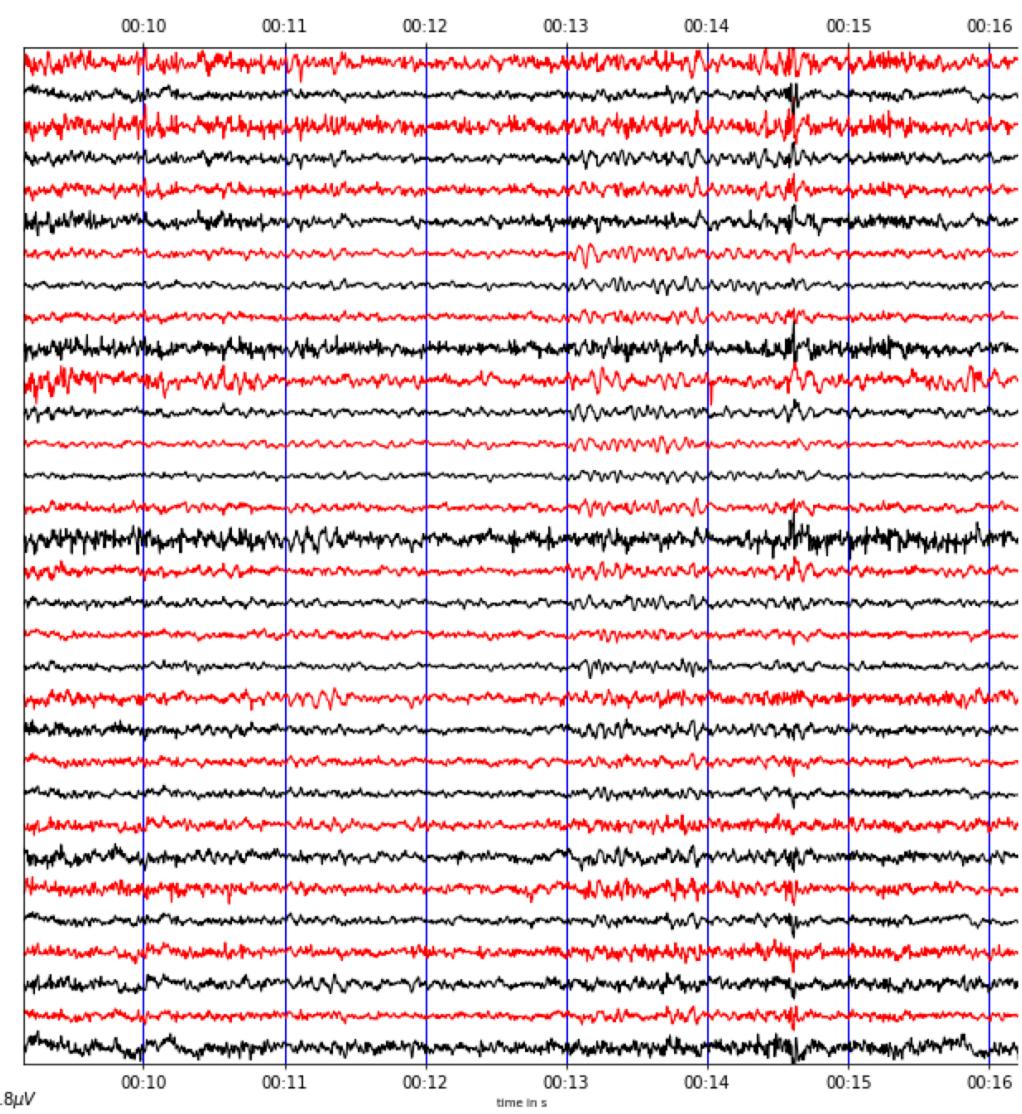
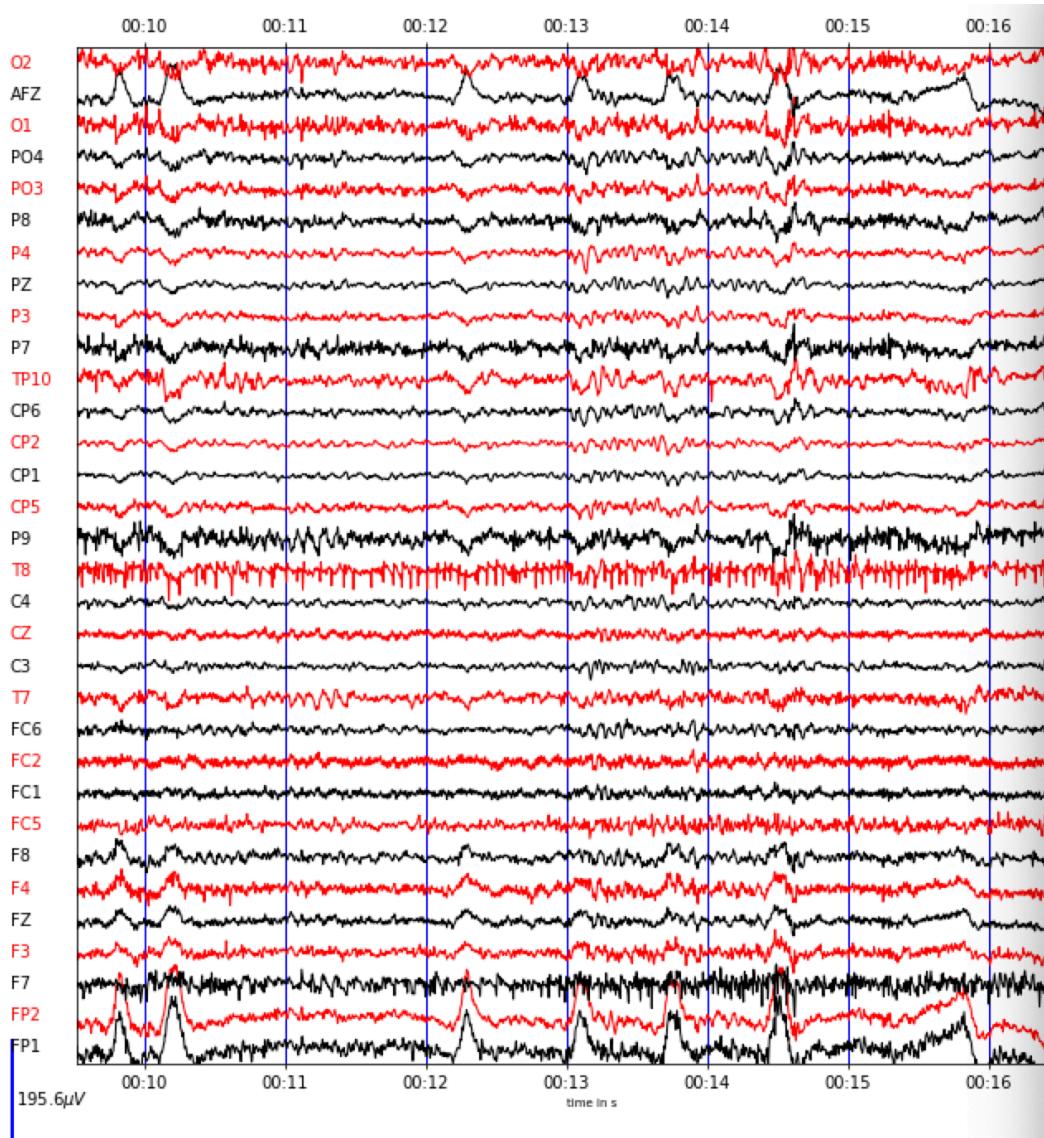
$\rho_5 = 0.19$



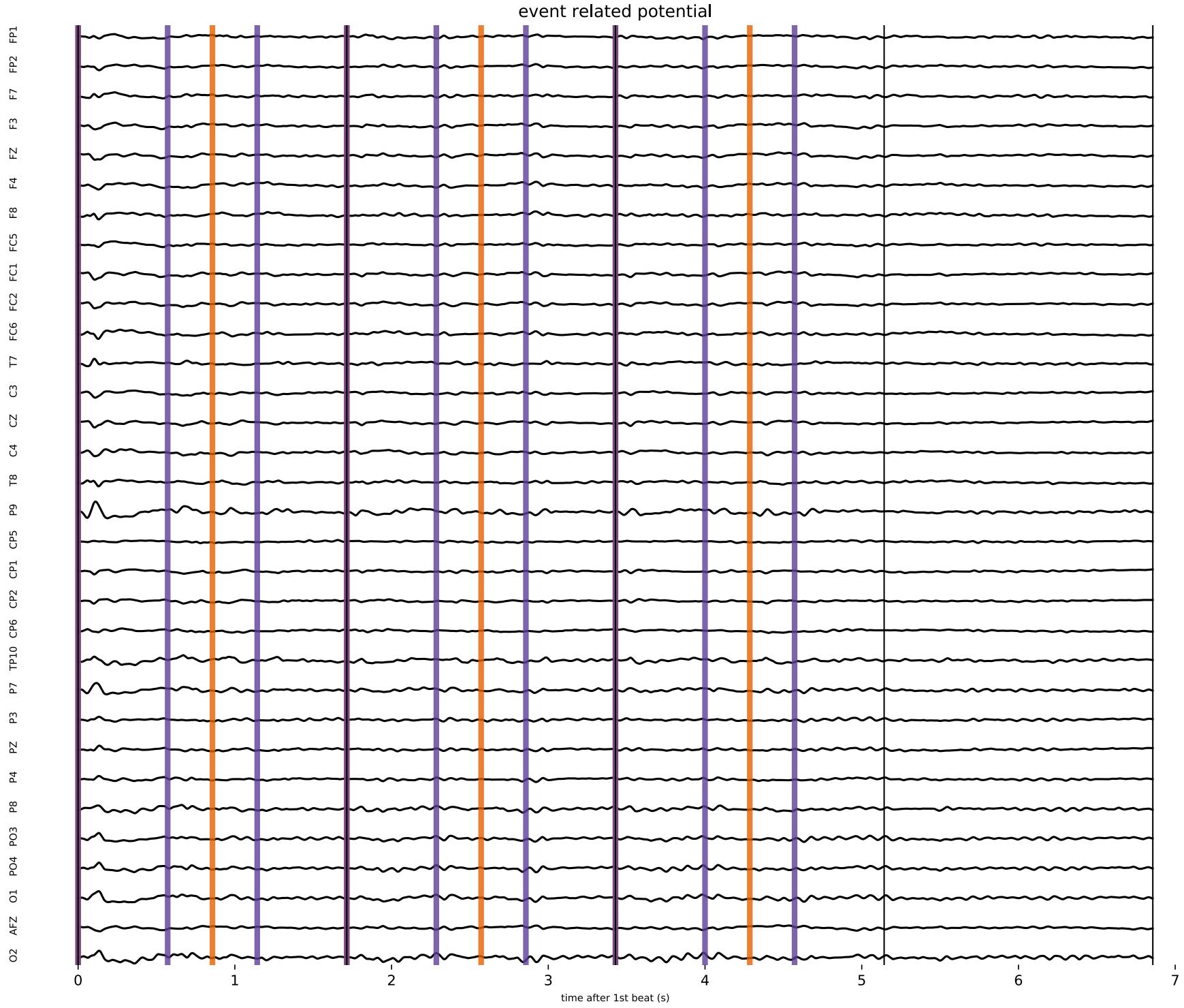
# S06 – Performance



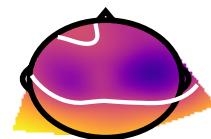
# S06 — Data Cleaning



# S06 – ERP all channels



# S06 – ERP CCA



$\rho_1 = 0.38$



$\rho_2 = 0.29$



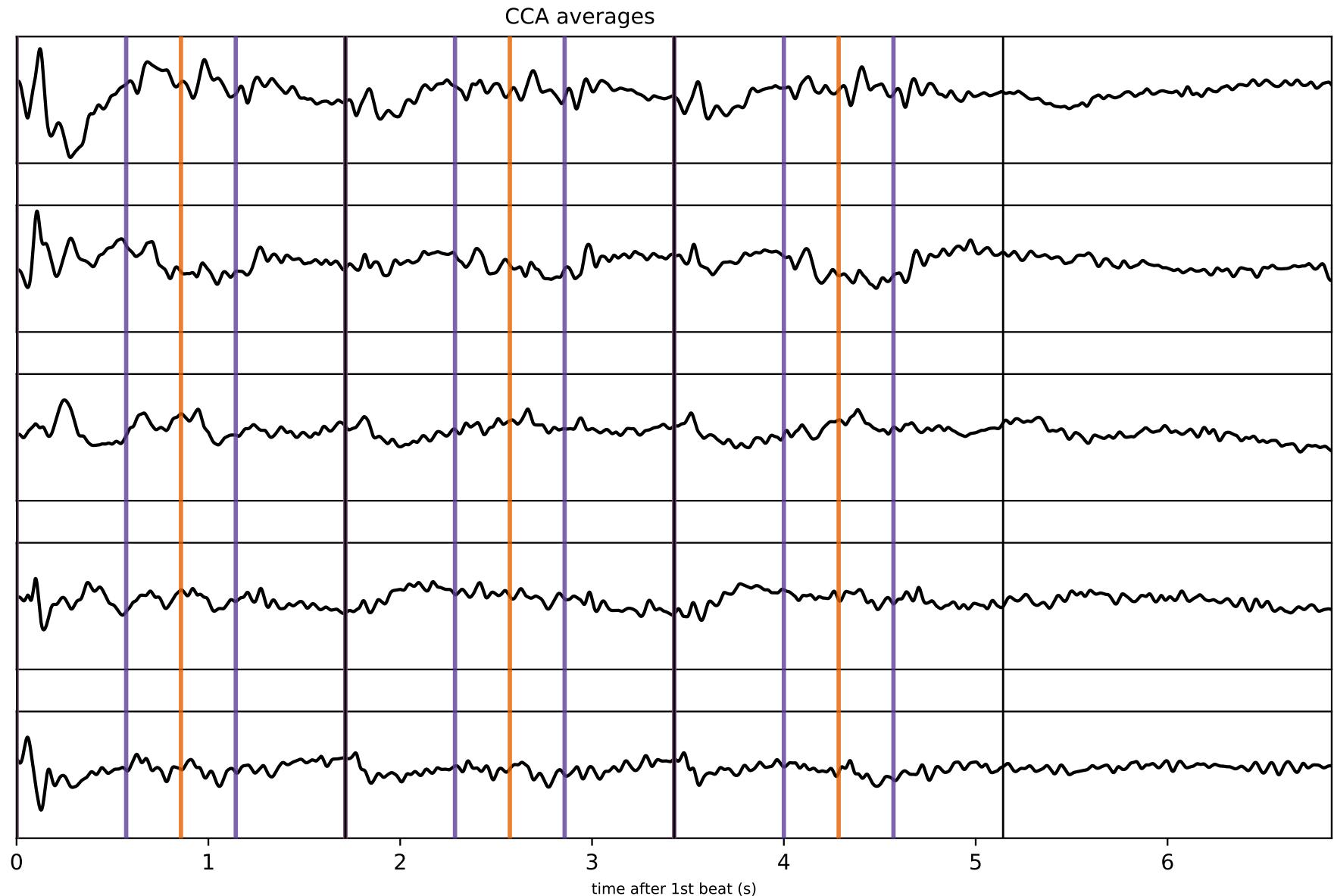
$\rho_3 = 0.24$



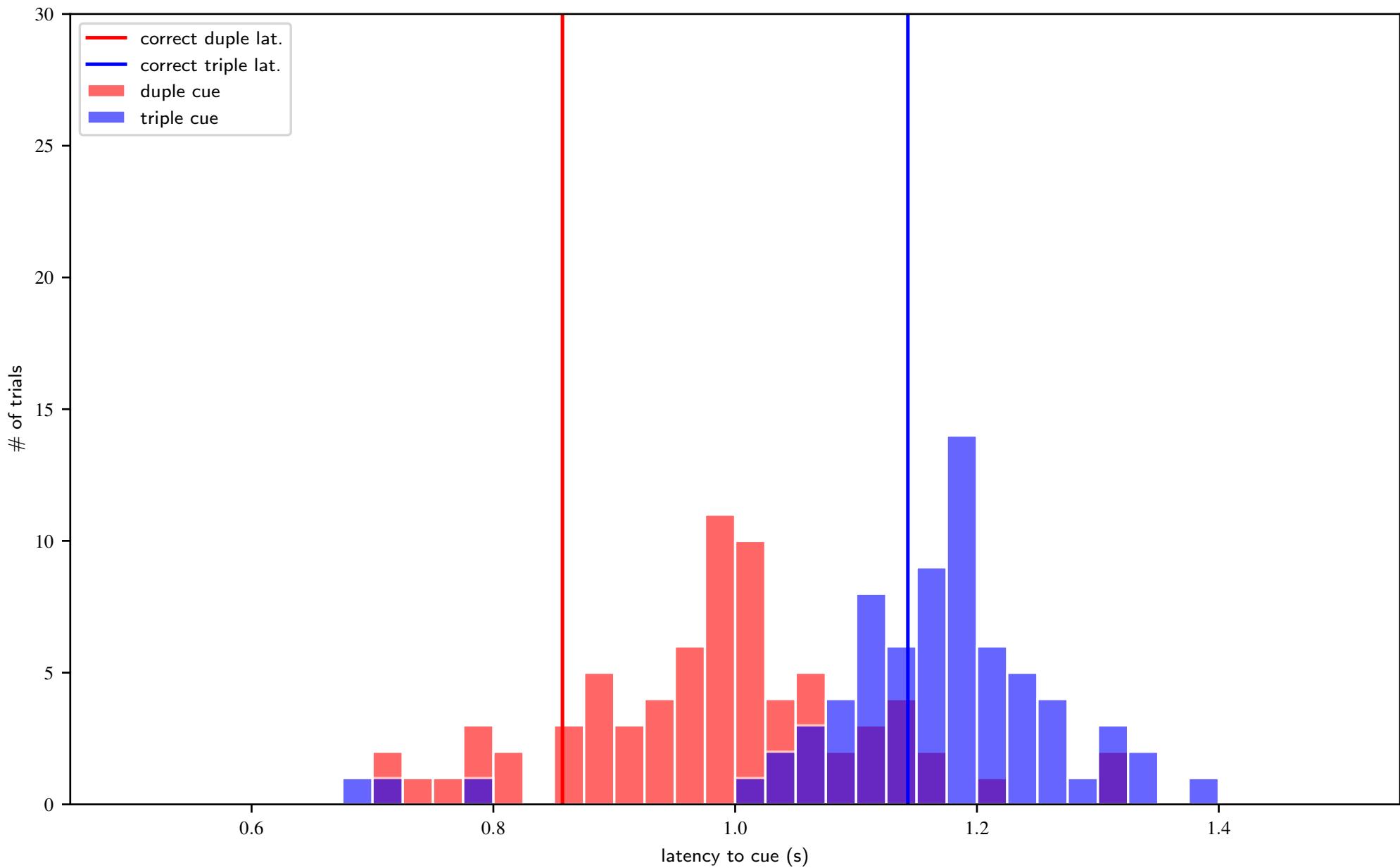
$\rho_4 = 0.22$



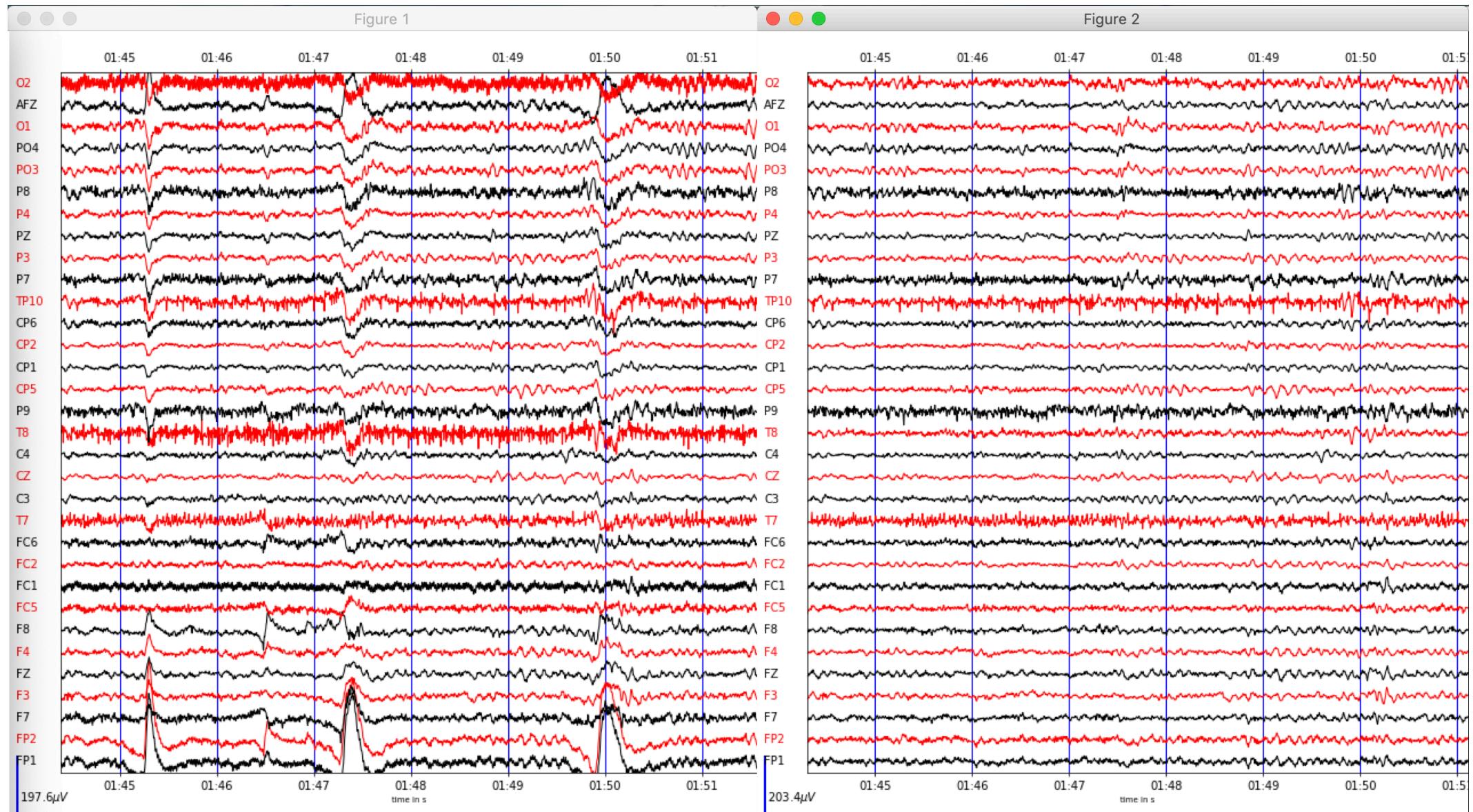
$\rho_5 = 0.20$



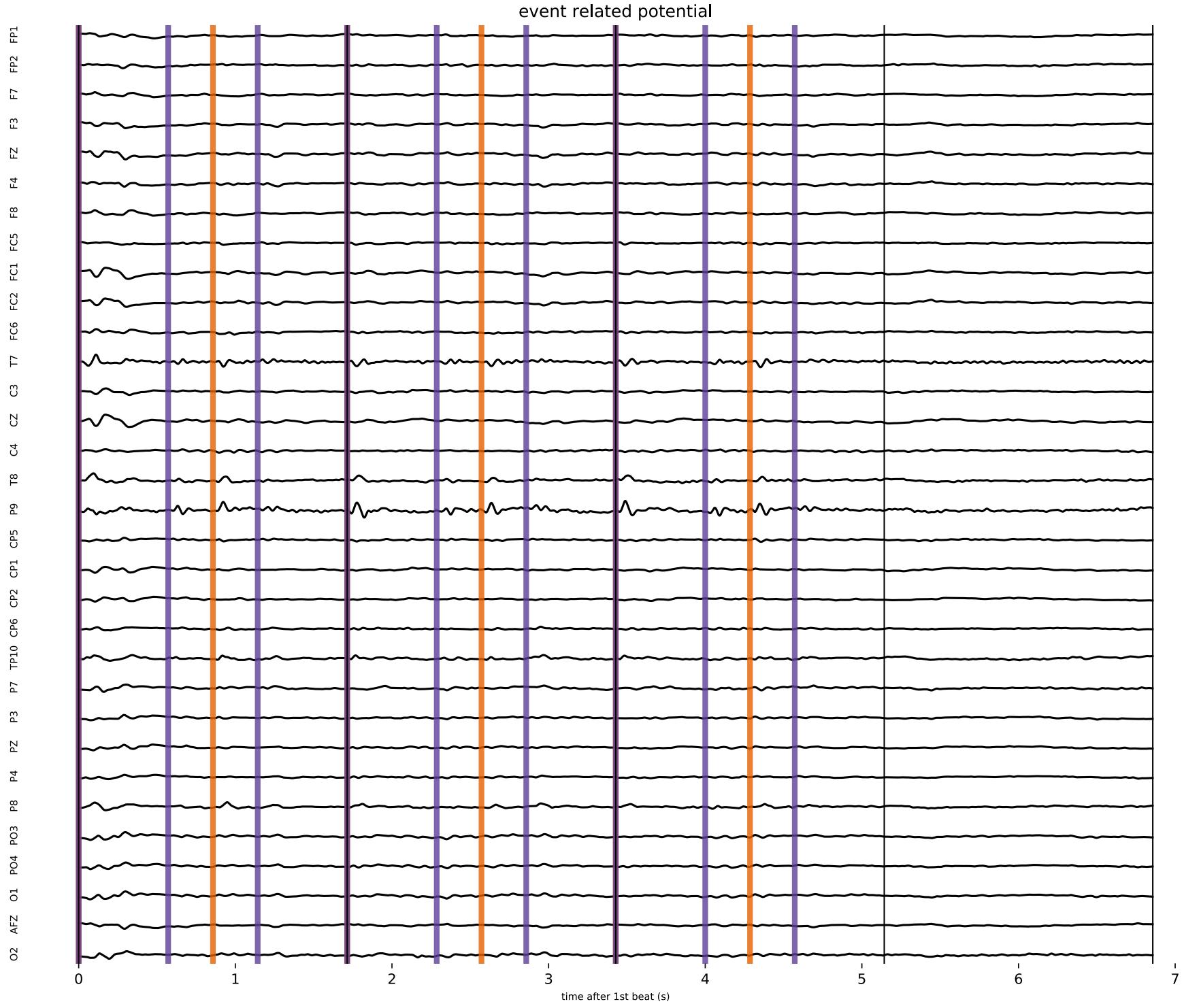
# S07 – Performance



# S07 — Data Cleaning



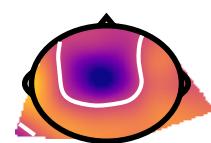
# S07 – ERP all channels



# S07 – ERP CCA



$\rho_1 = 0.32$



$\rho_2 = 0.31$



$\rho_3 = 0.26$

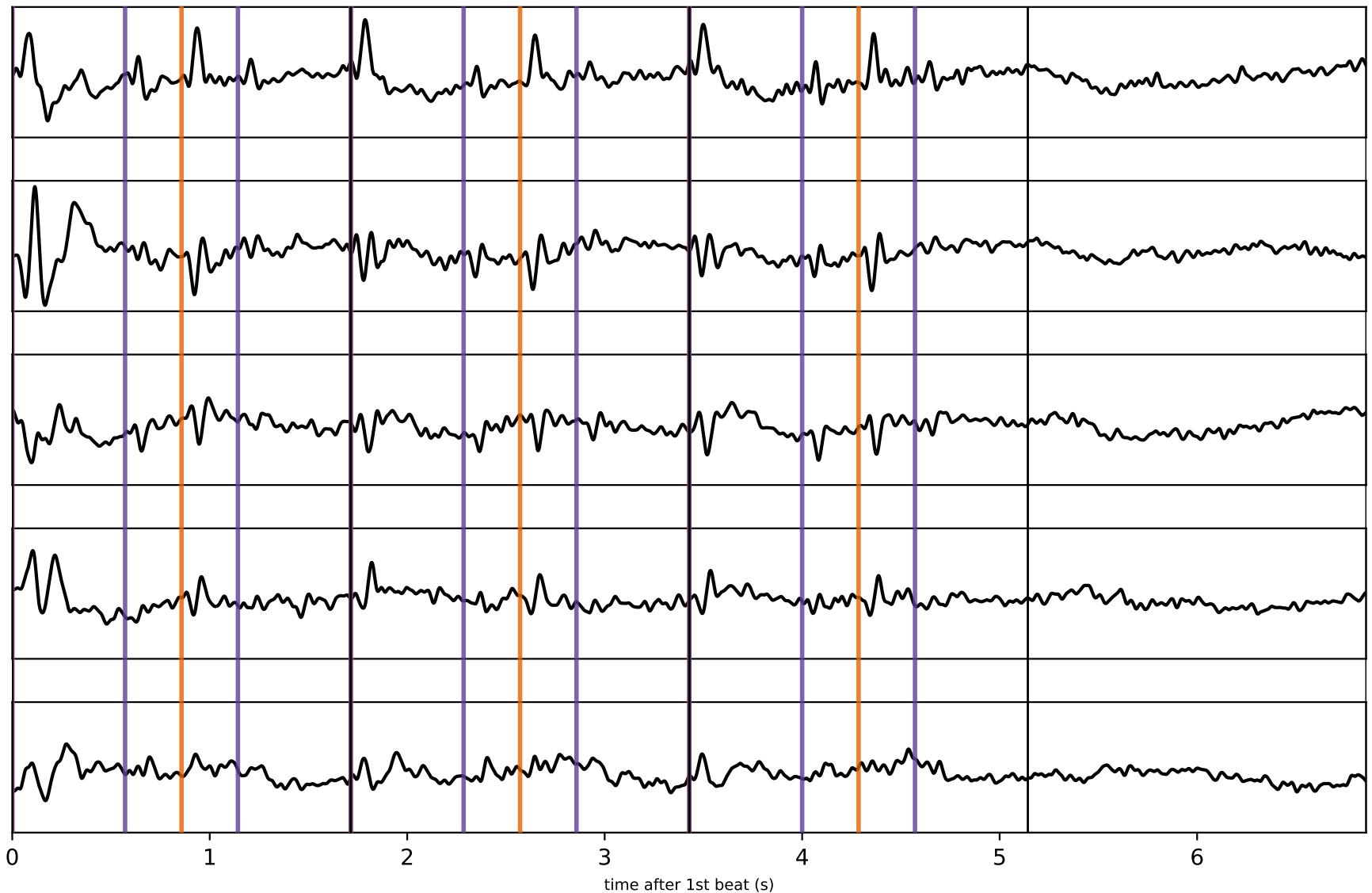


$\rho_4 = 0.24$

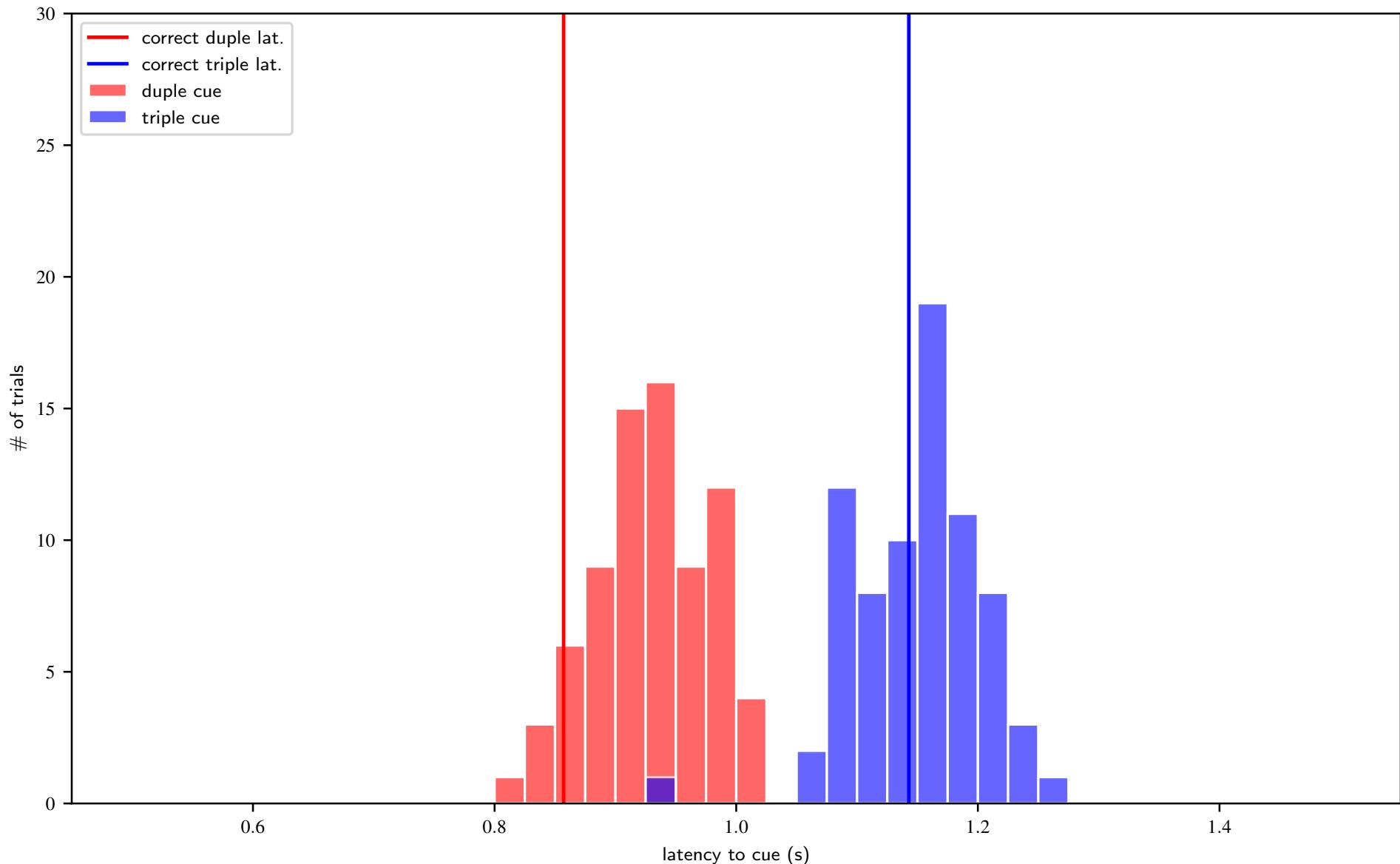


$\rho_5 = 0.22$

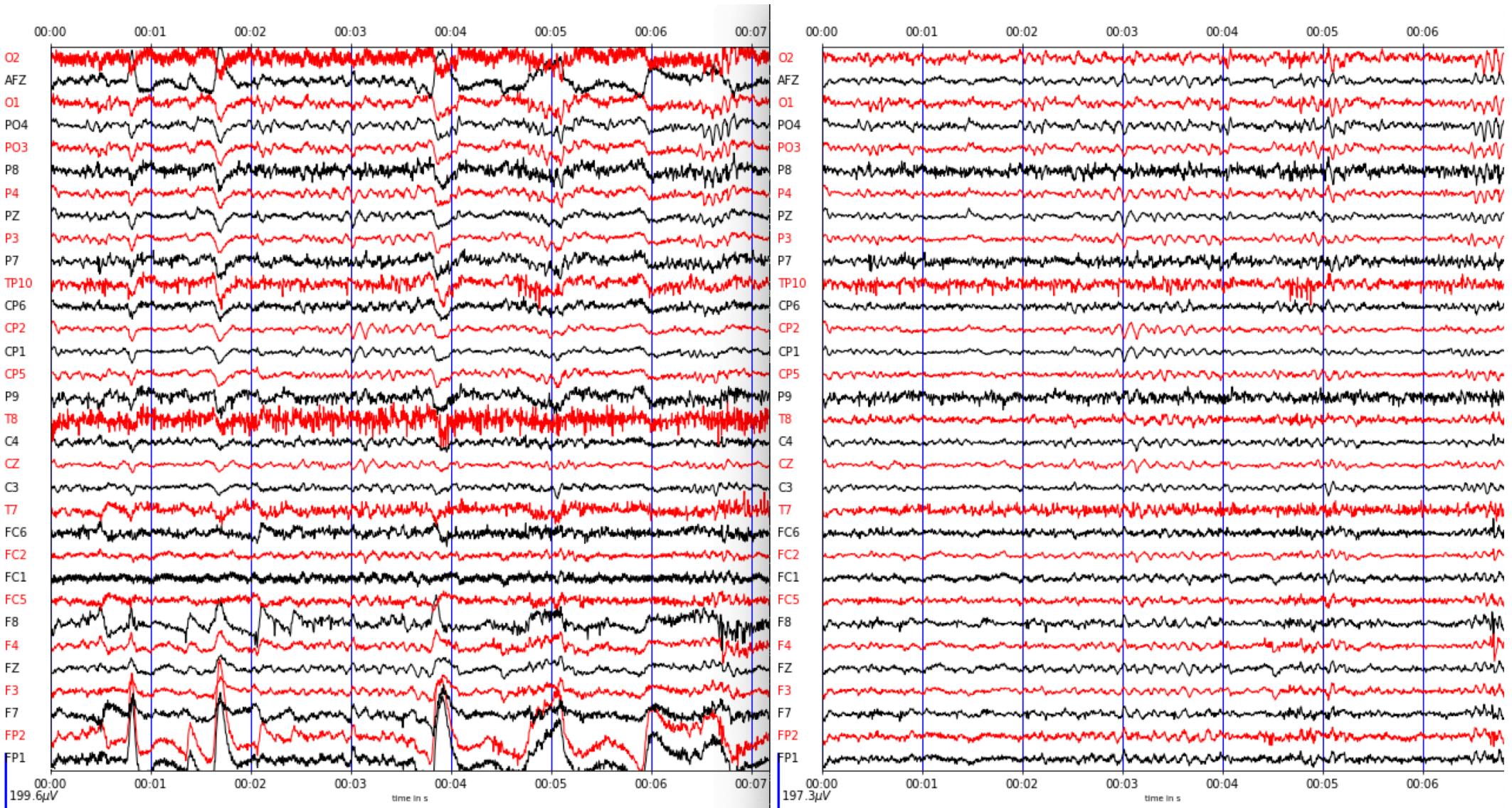
CCA averages



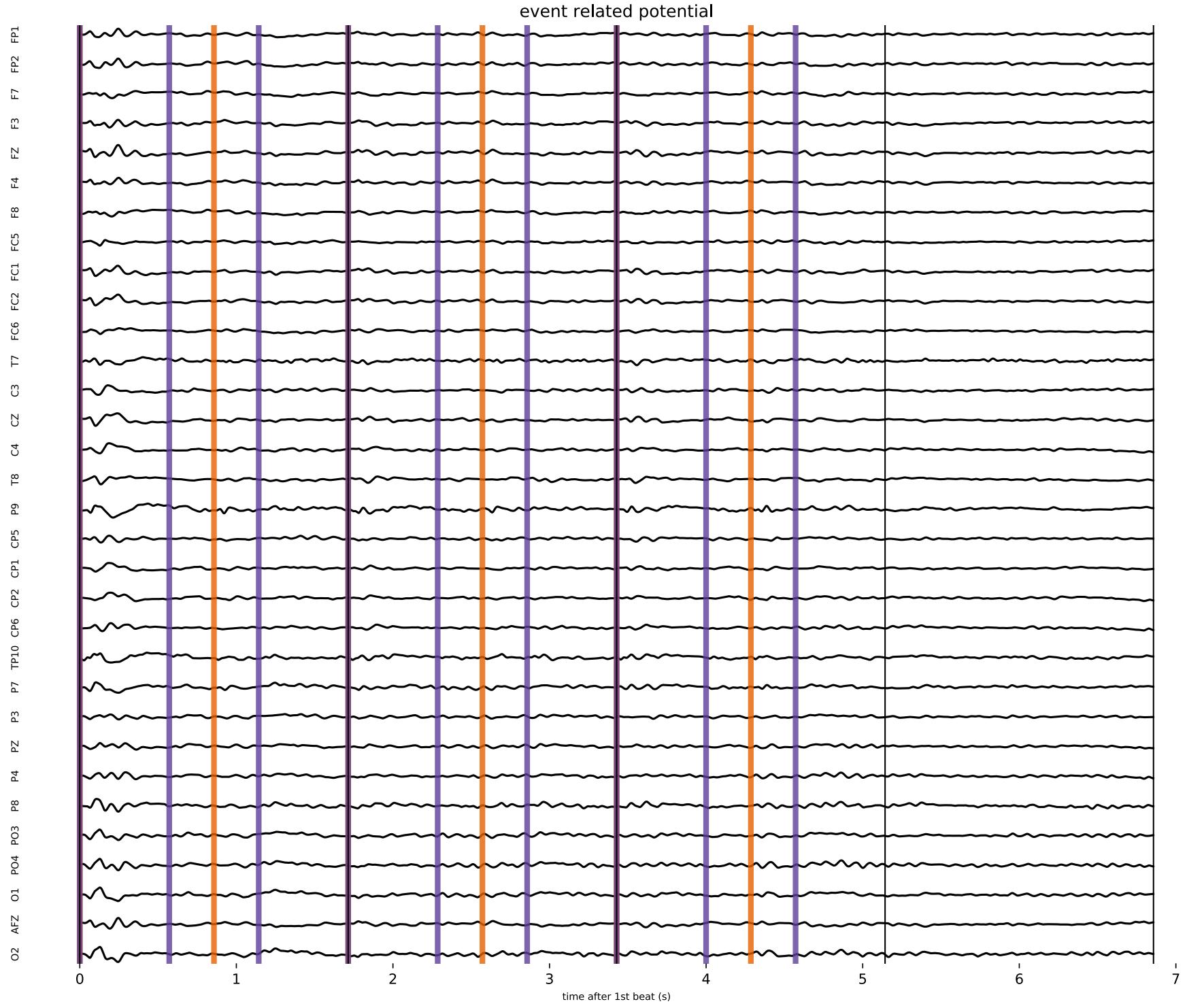
# S08 – Performance



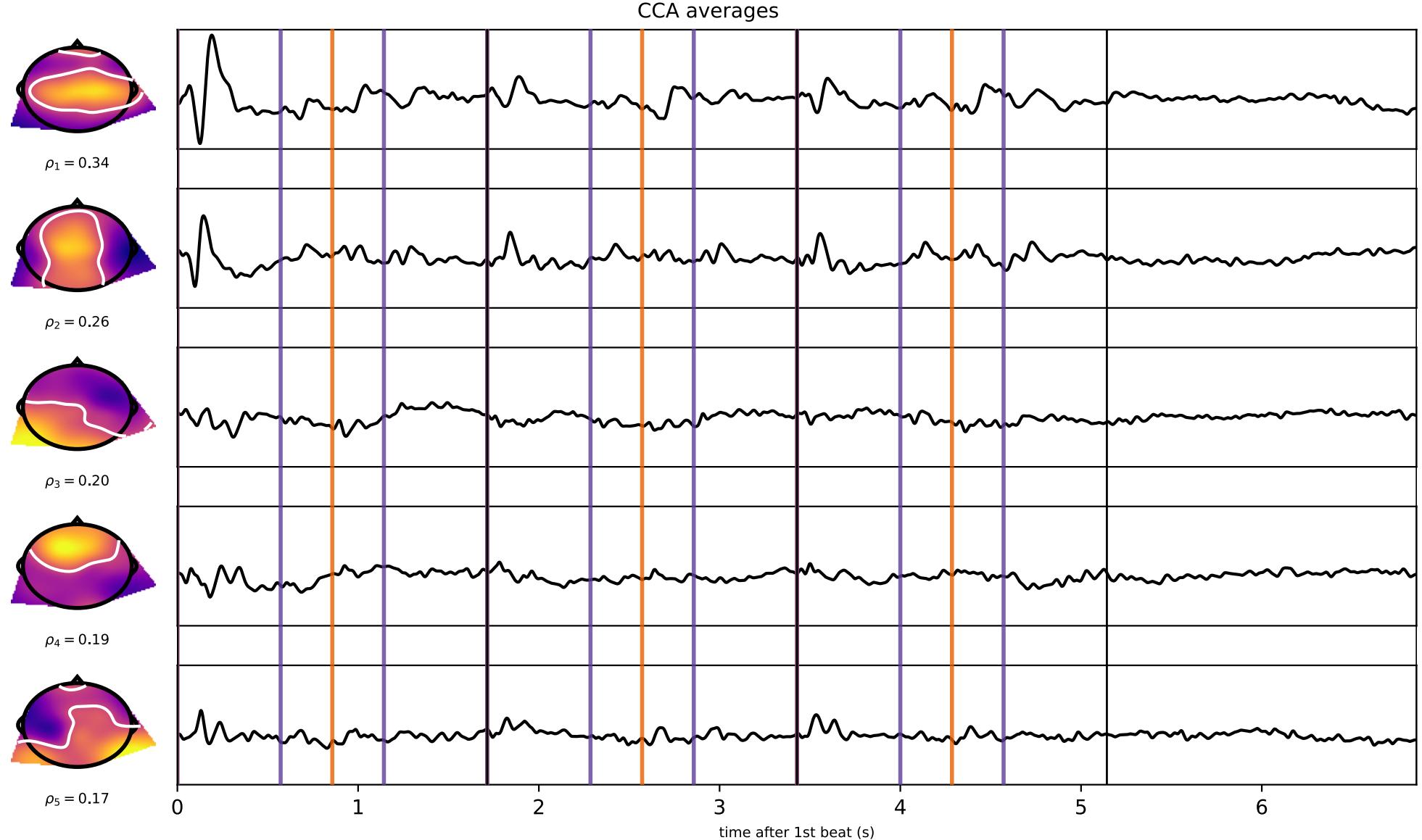
# S08 — Data Cleaning



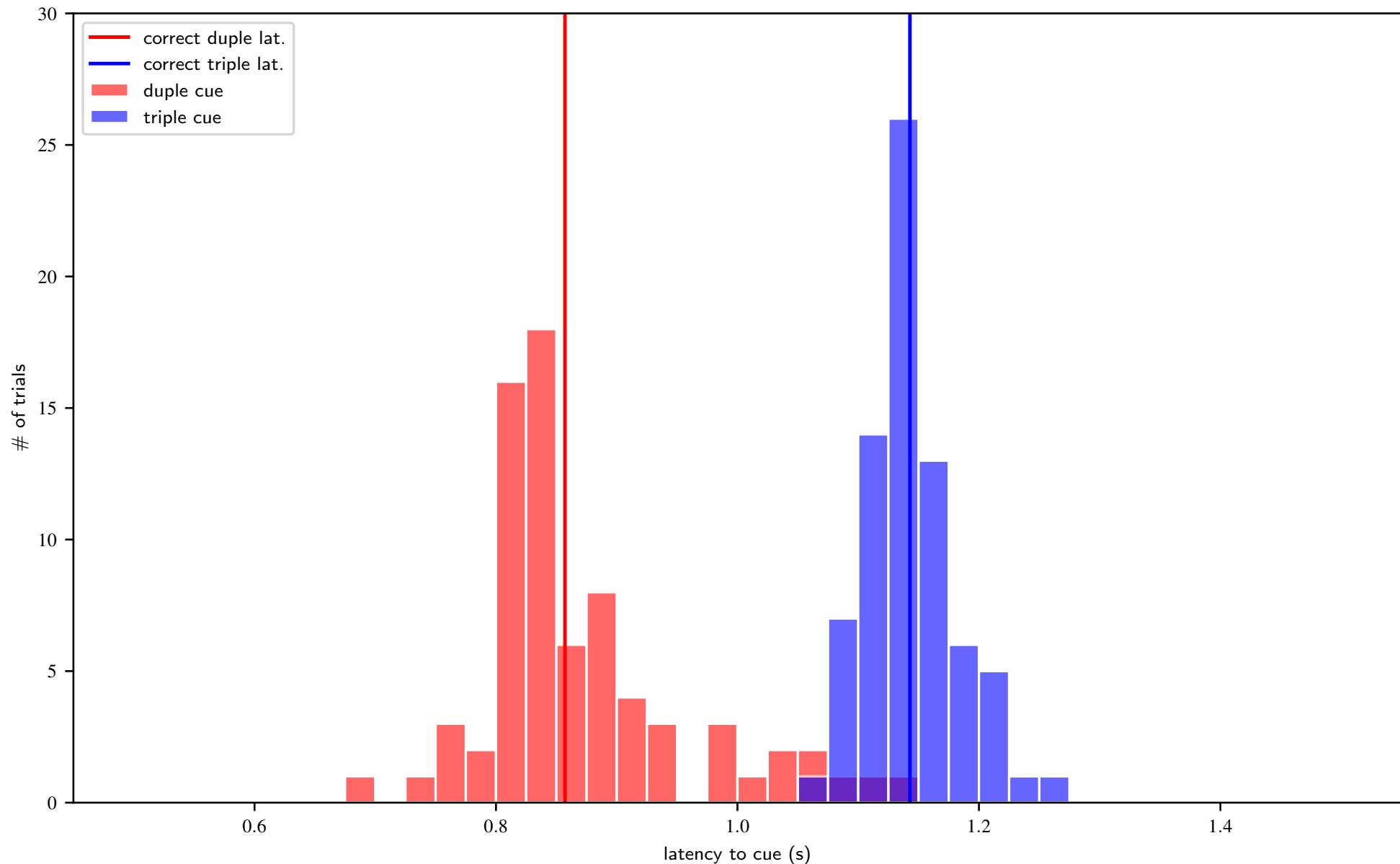
# S08 – ERP all channels



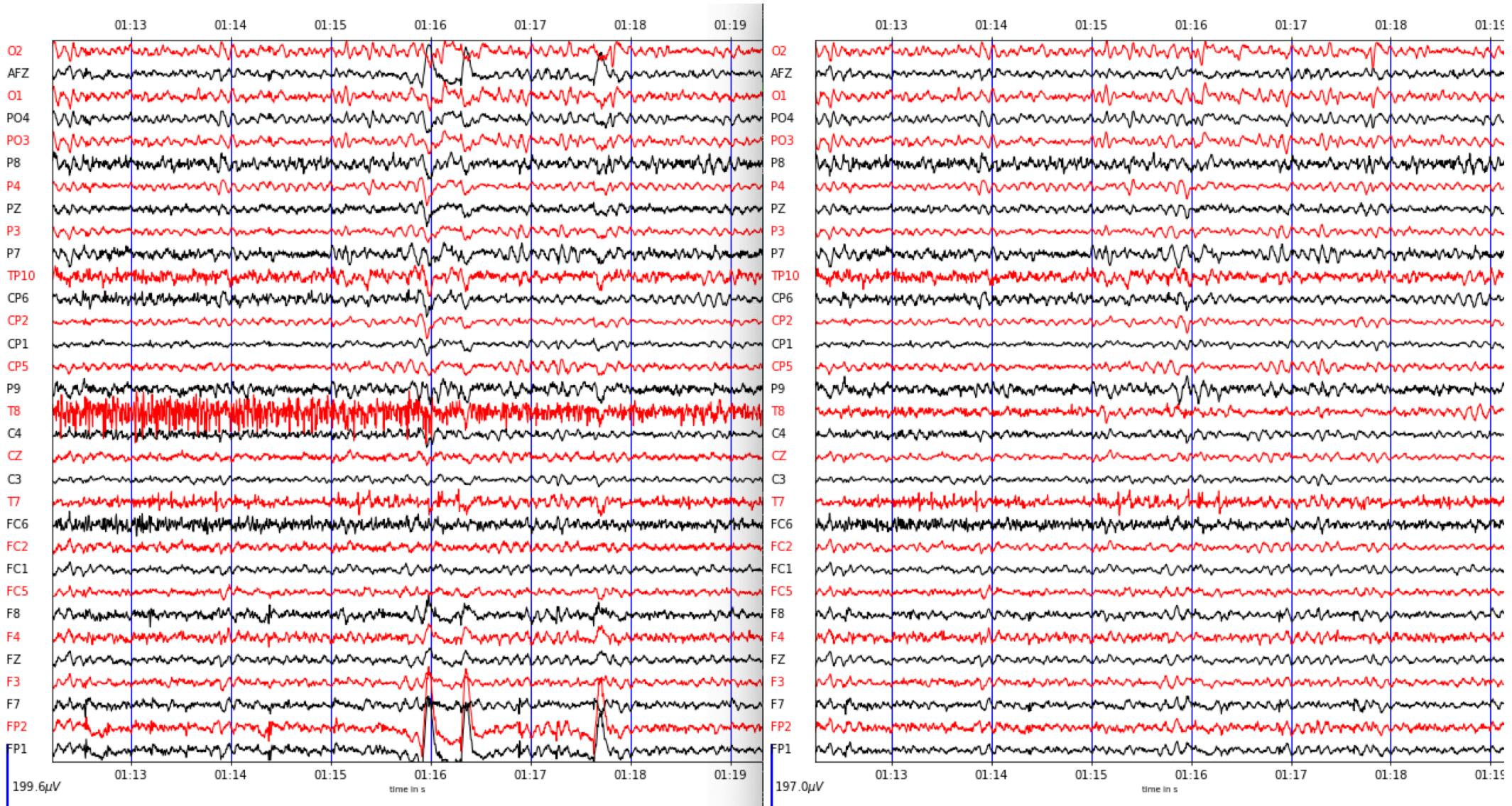
# S08 – ERP CCA



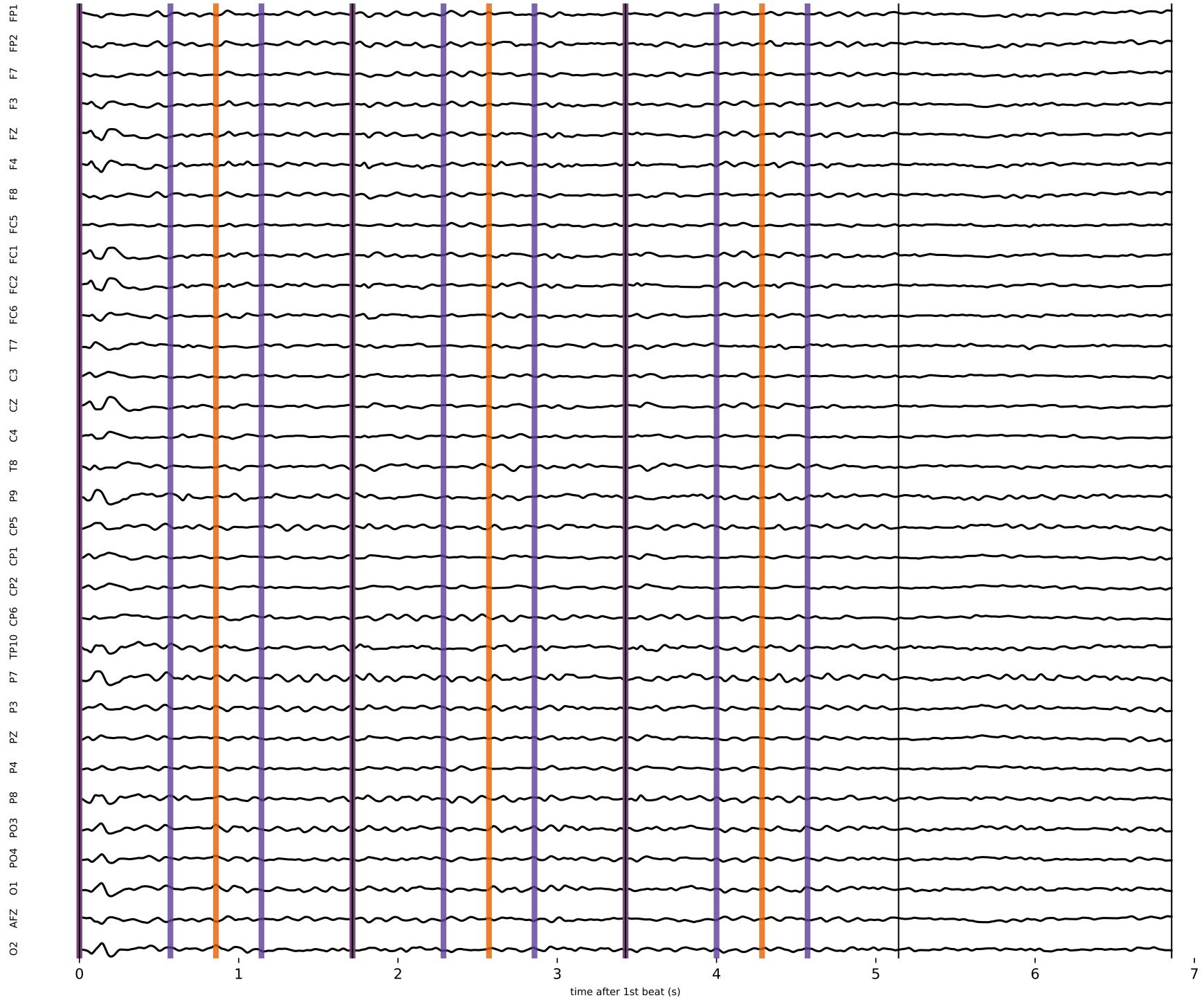
# S09 — Performance



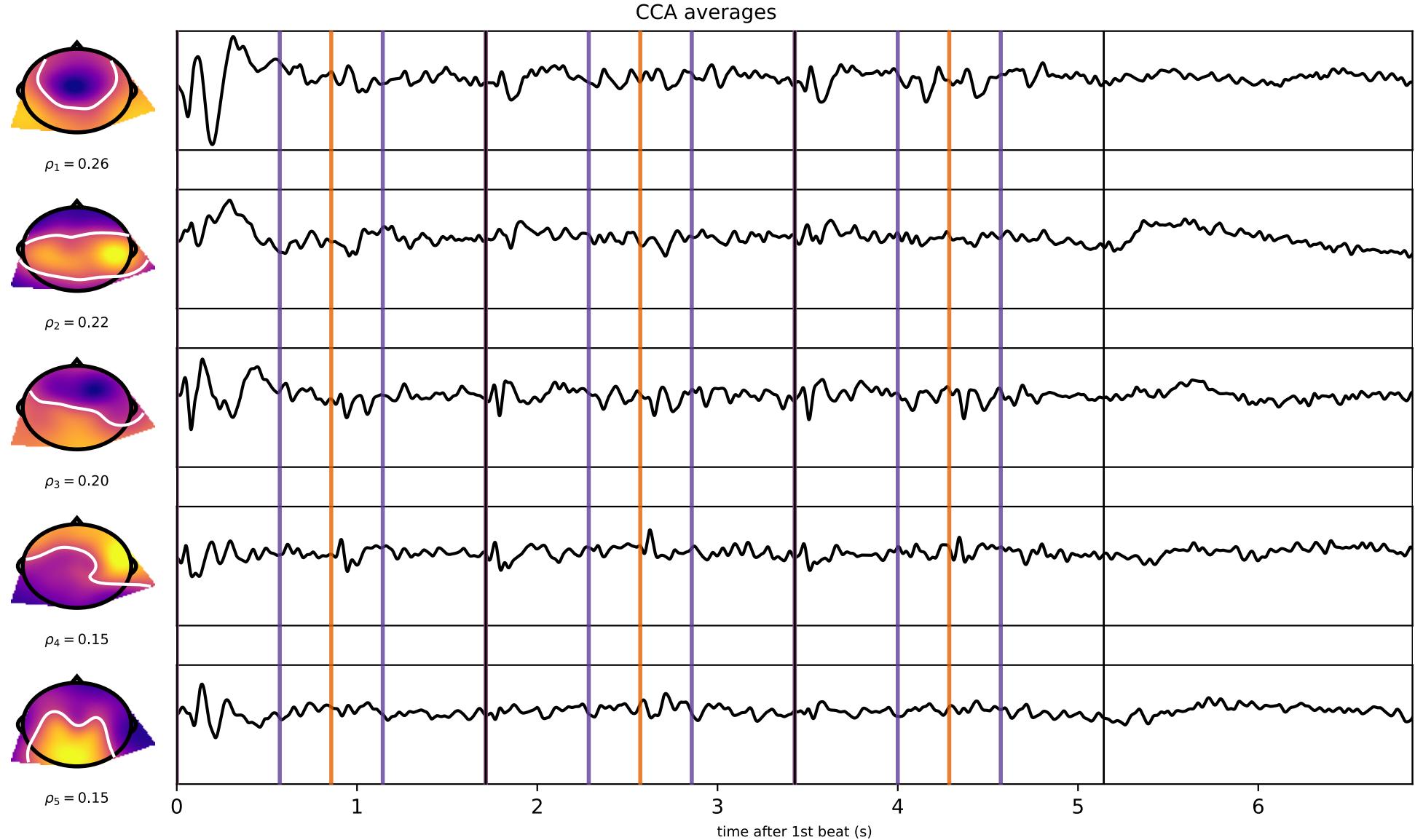
# S09 — Data Cleaning



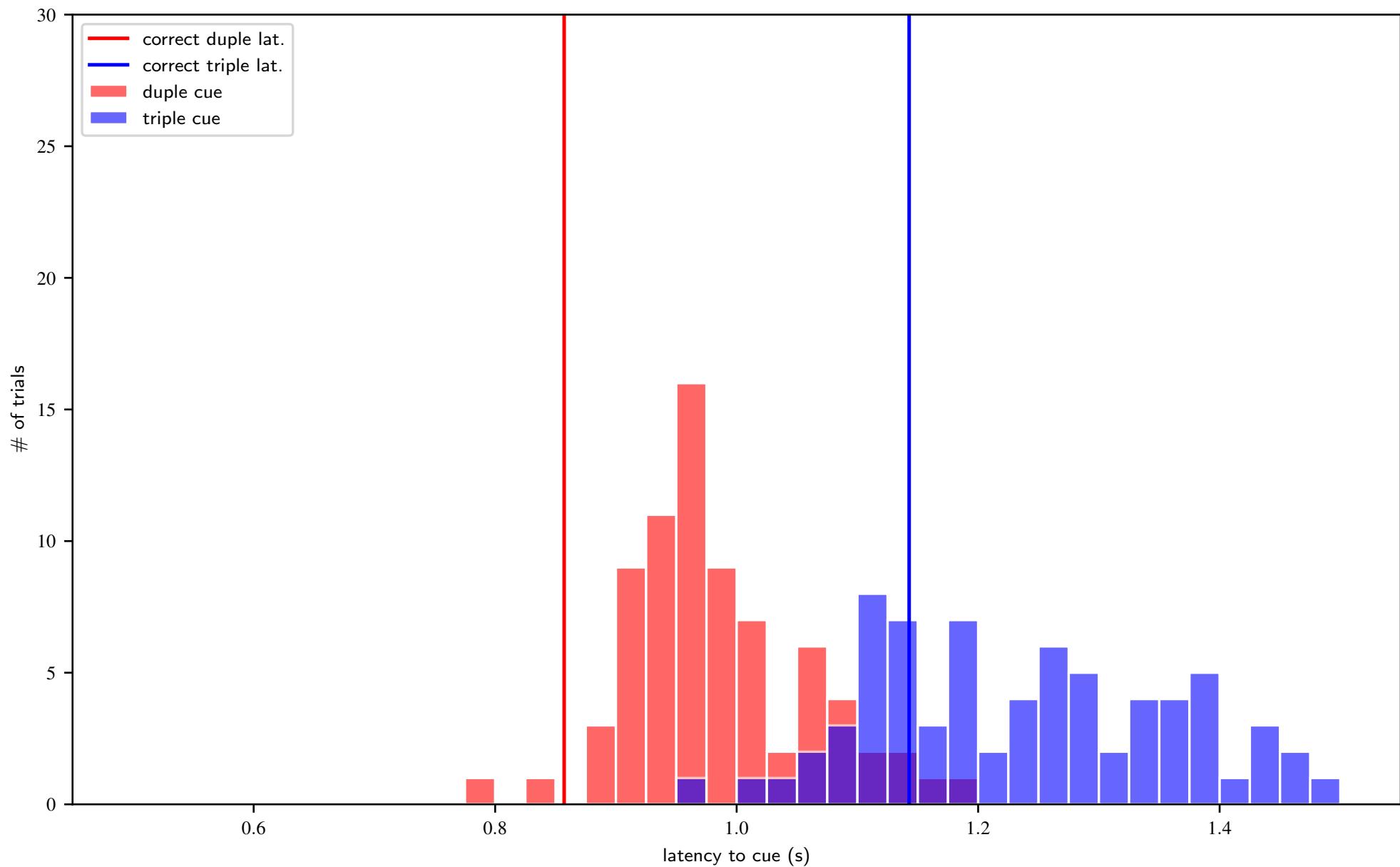
# S09 – ERP all channels



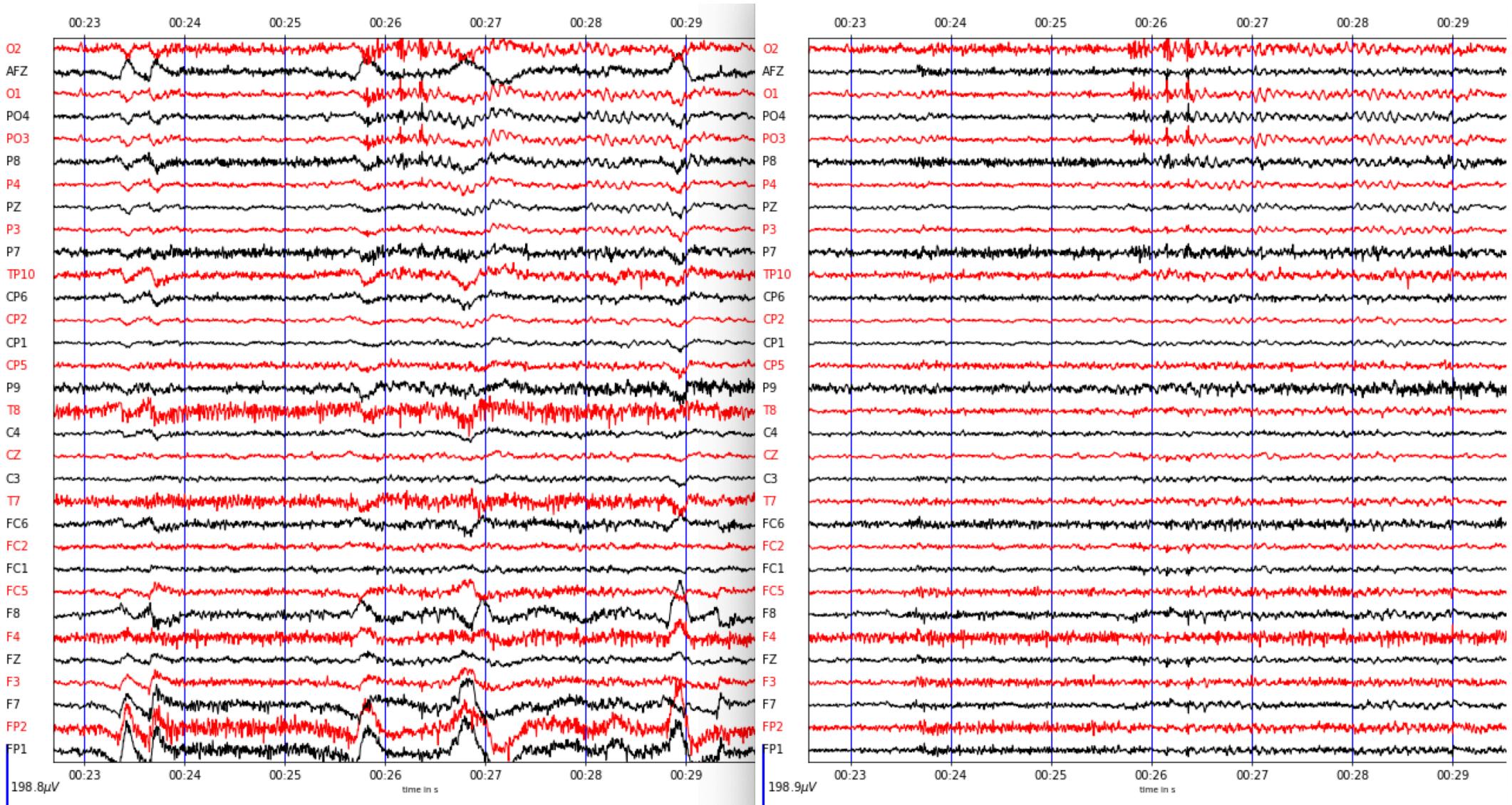
# S09 – ERP CCA



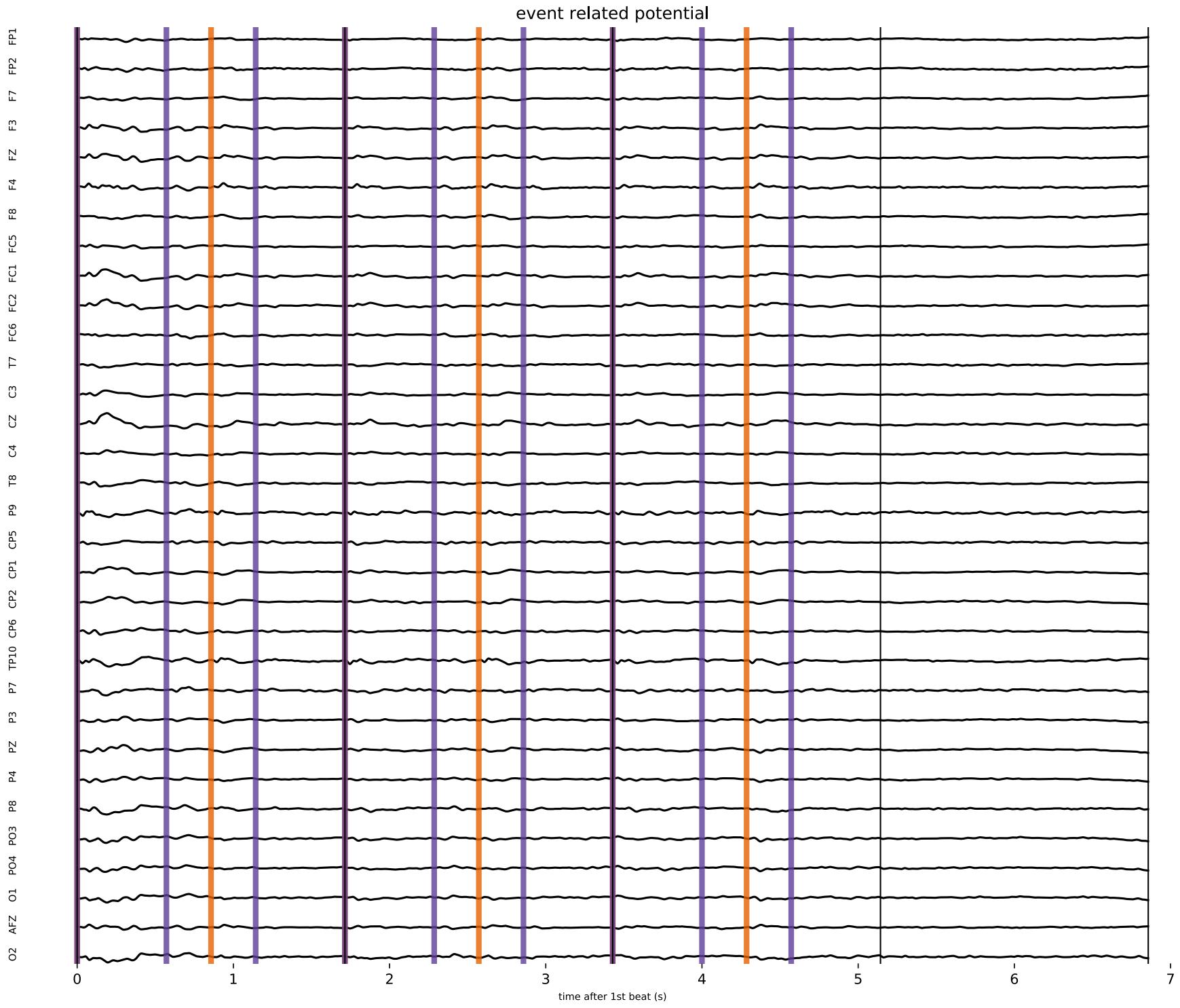
# S10 – Performance



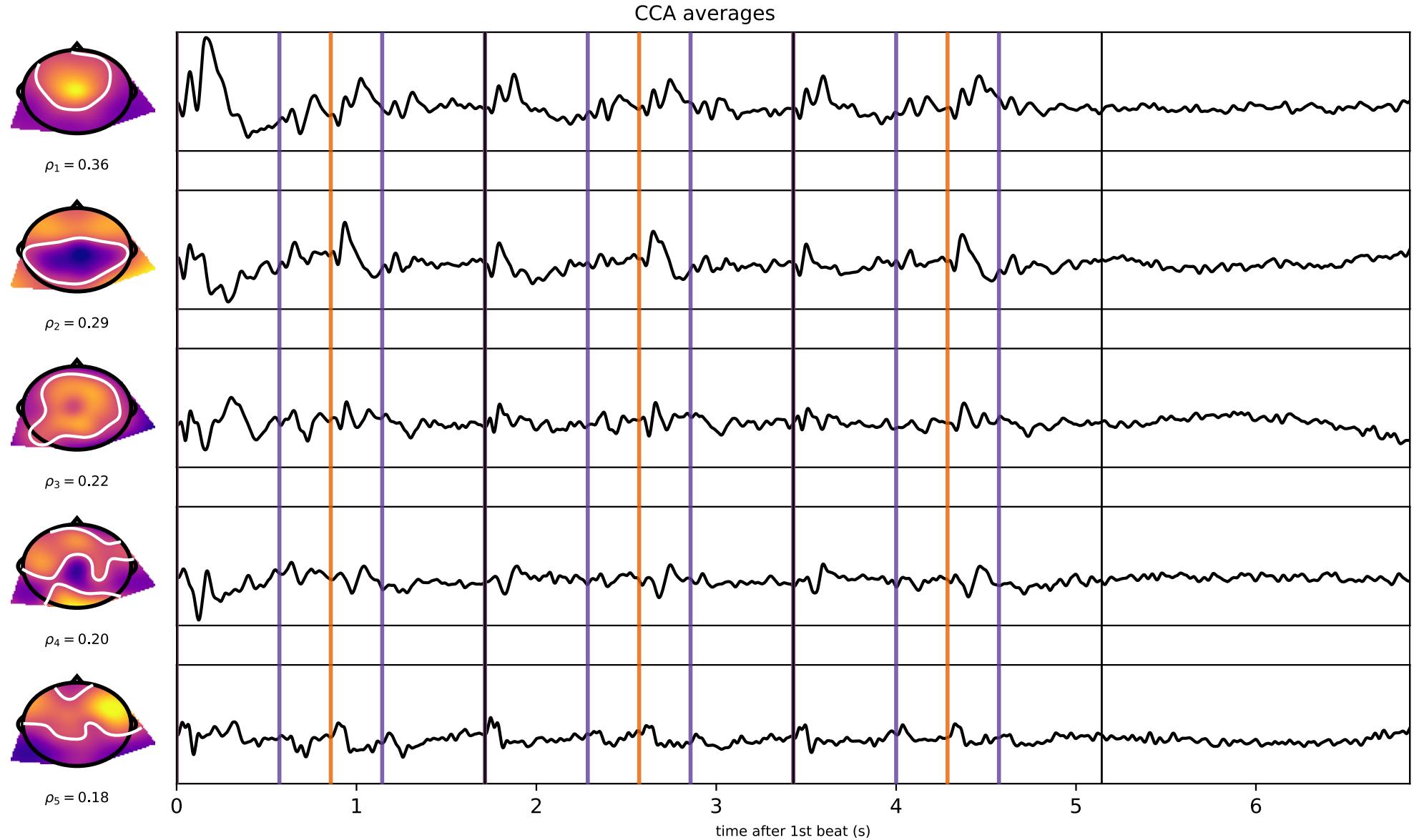
# S10 — Data Cleaning



# S10 – ERP all channels

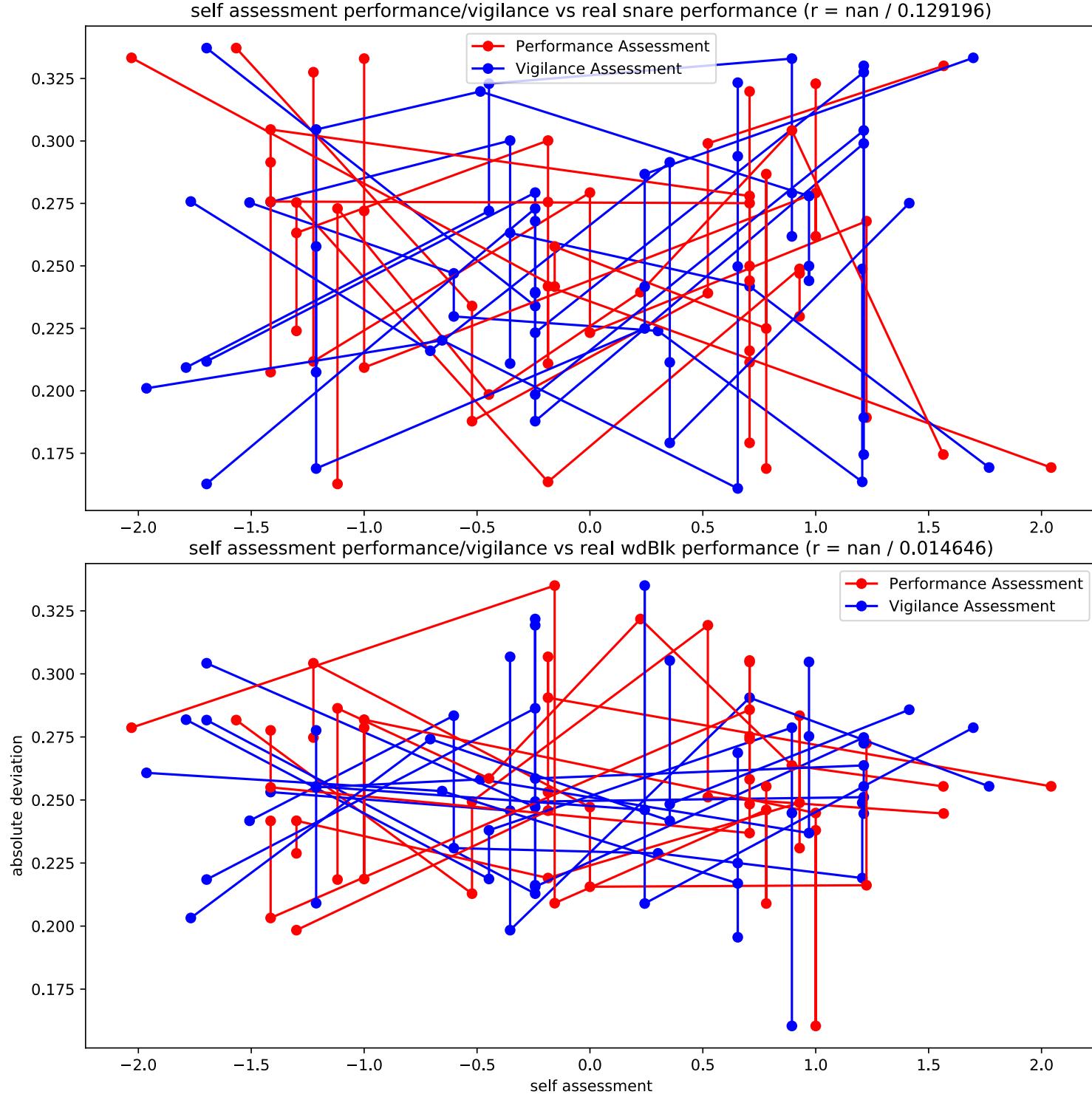


# S10 – ERP CCA

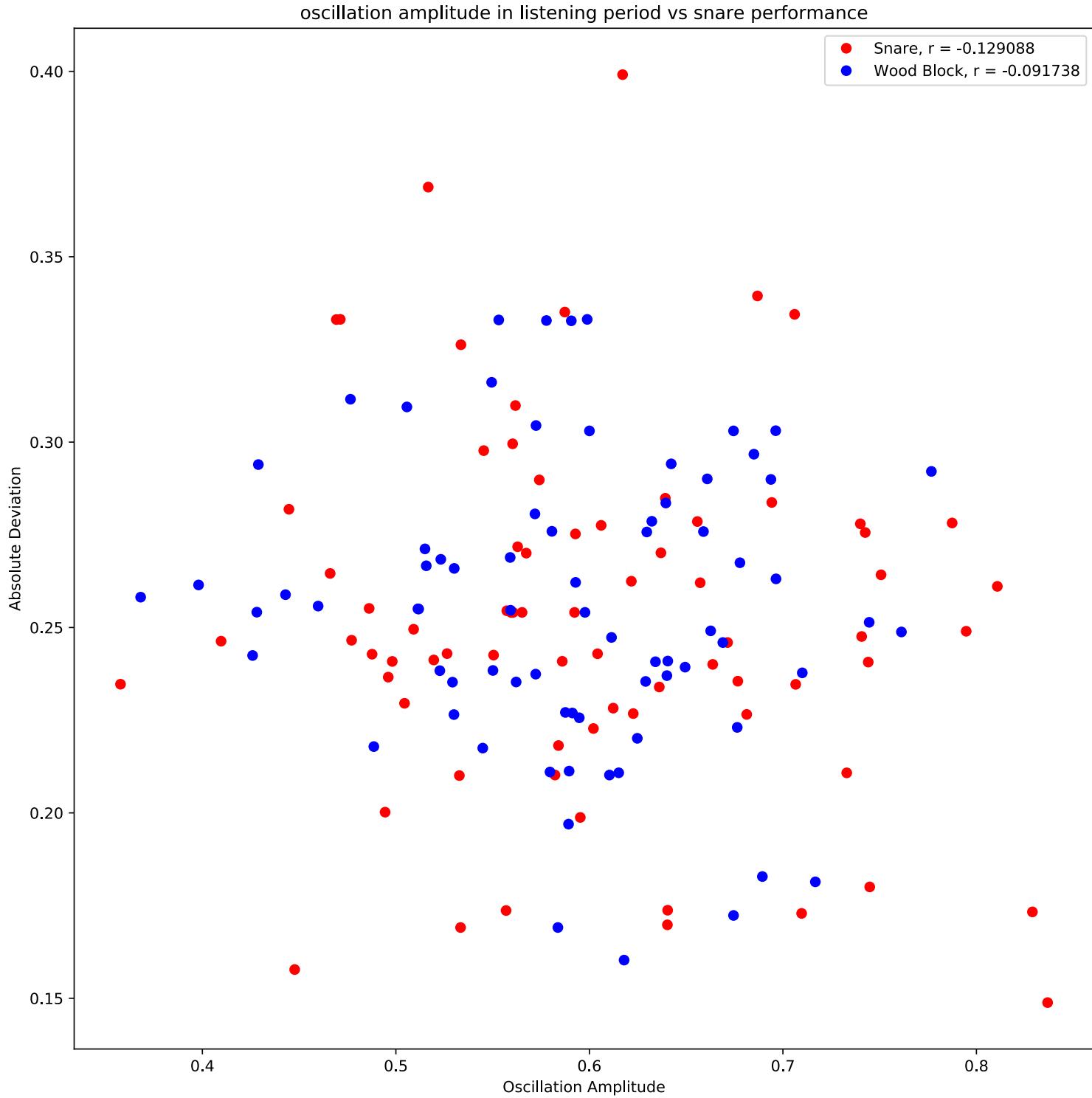


# All 10 Subjects – Self assessment

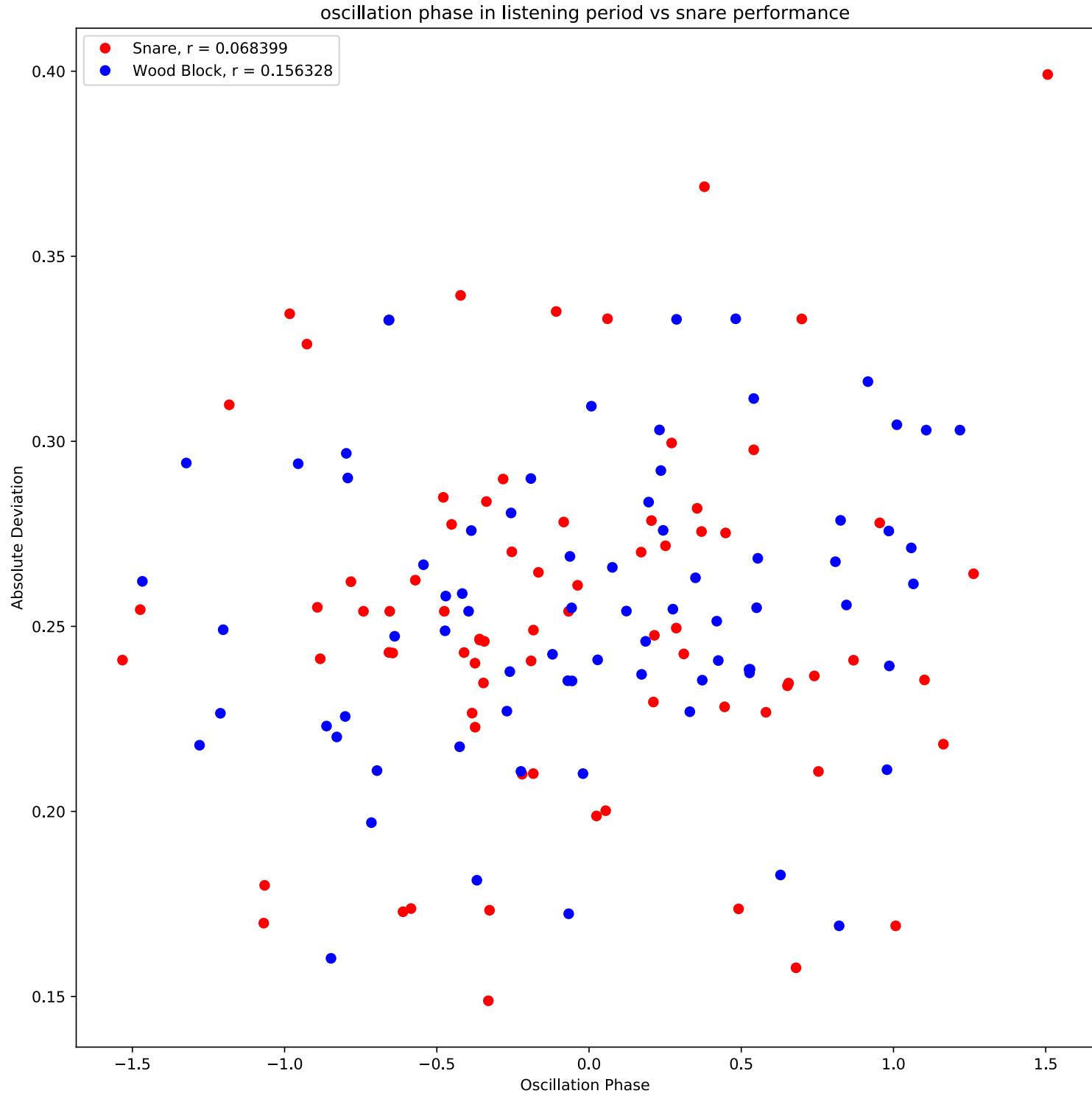
- Snare Drum:  $r = \{0.151, -0.028, -0.359, -0.723, 0.201, 0.202, 0.074, 0, -0.721, -0.73\}$   
**mean r performance = -0.1933**
- Wood Block:  $r = \{-0.008, 0.452, -0.572, 0.291, -0.555, 0.055, 0.146, 0, 0.794, -0.37\}$   
**mean r performance = 0.0233**



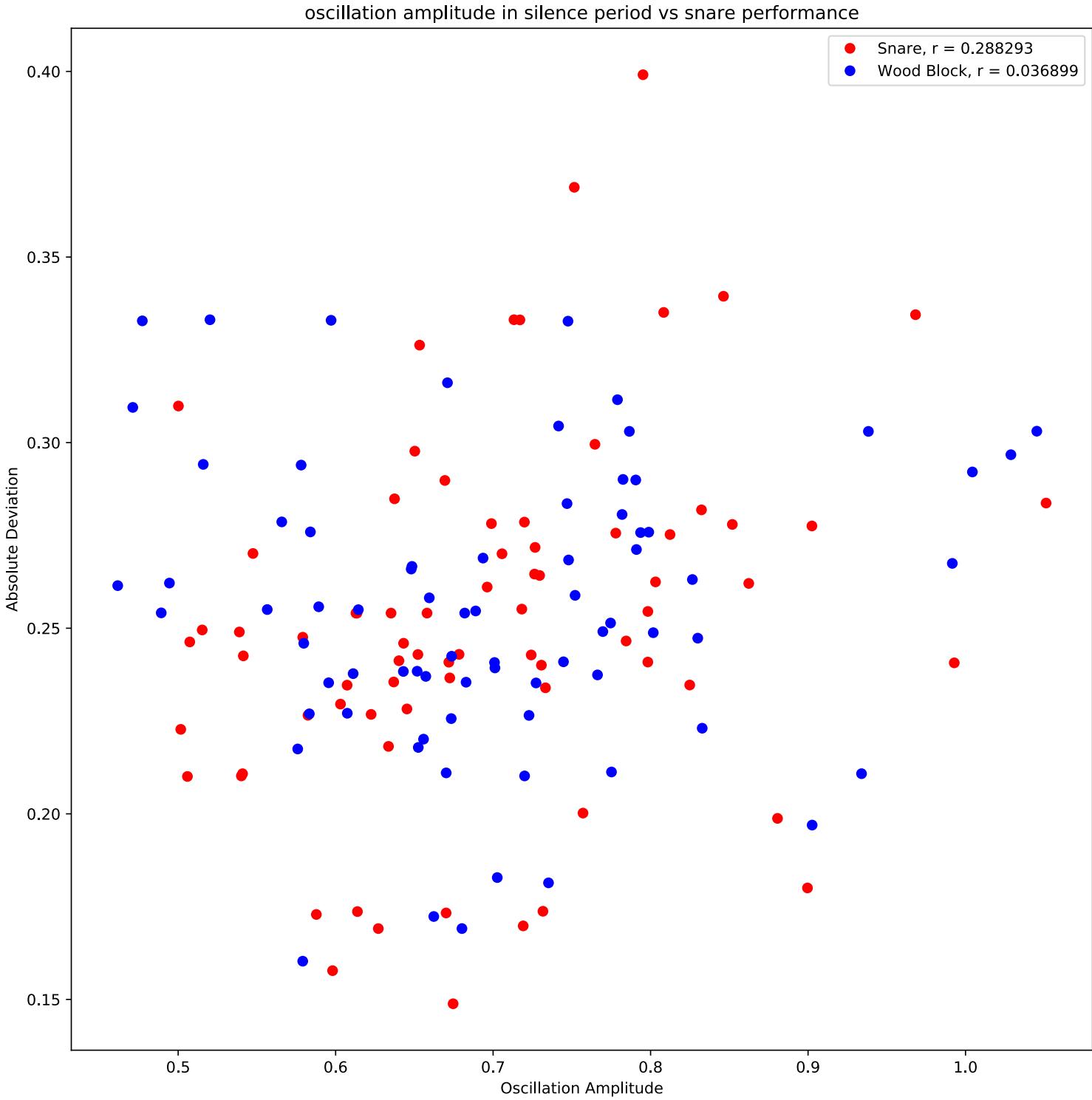
# All 10 Subjects – Listen Amplitude



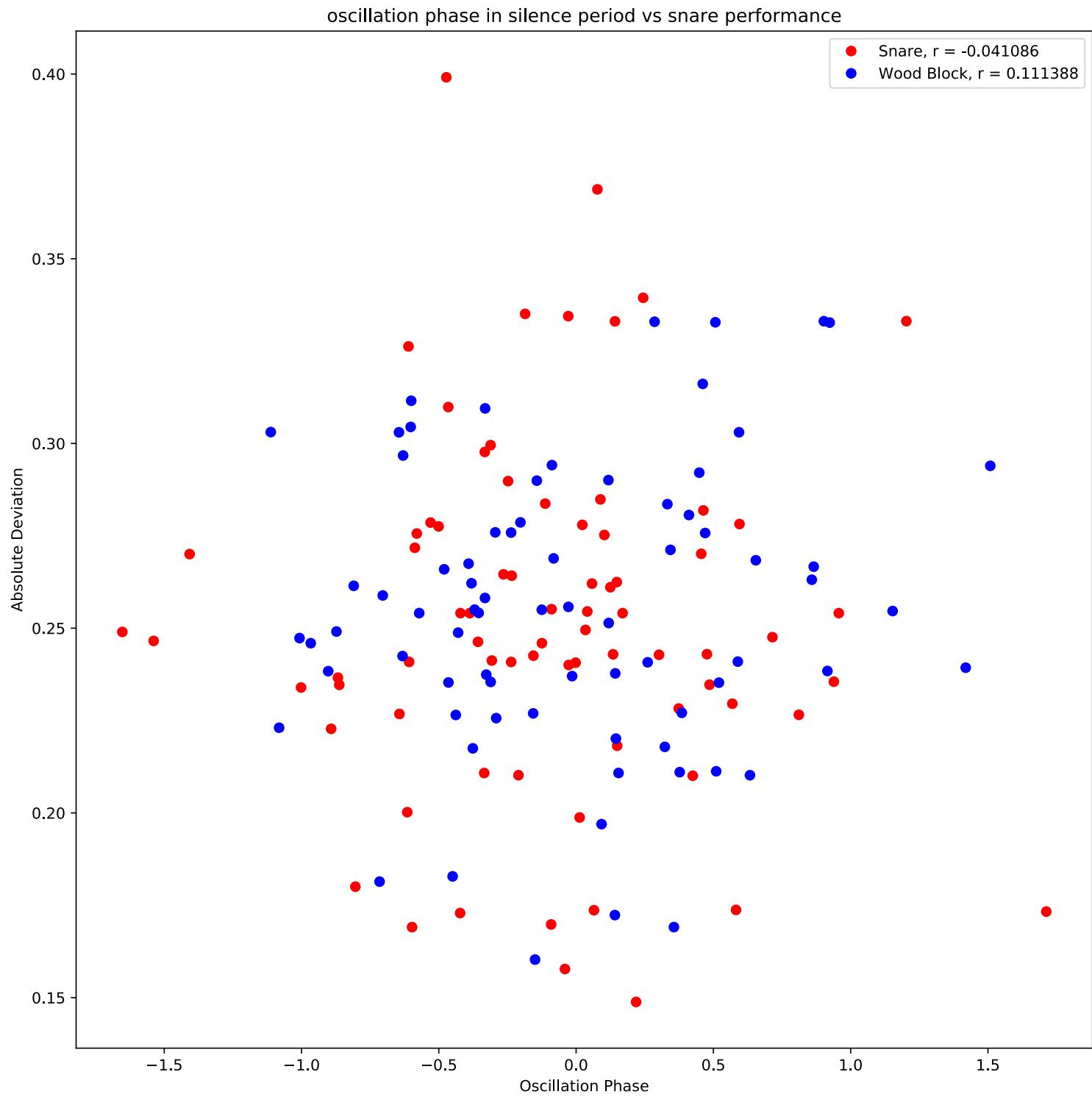
# All 10 Subjects – Listen Phase



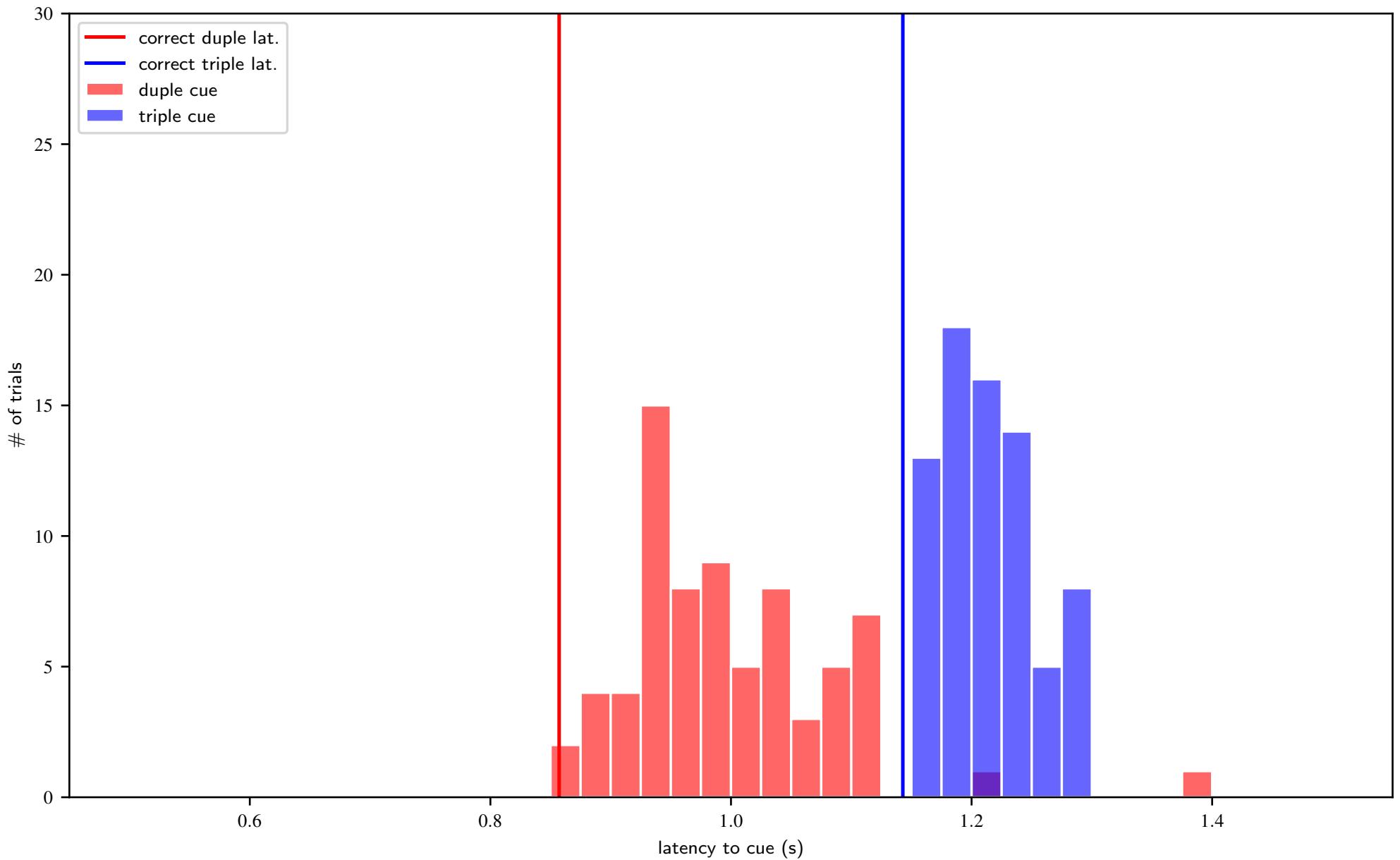
# All 10 Subjects – Silence Amplitude



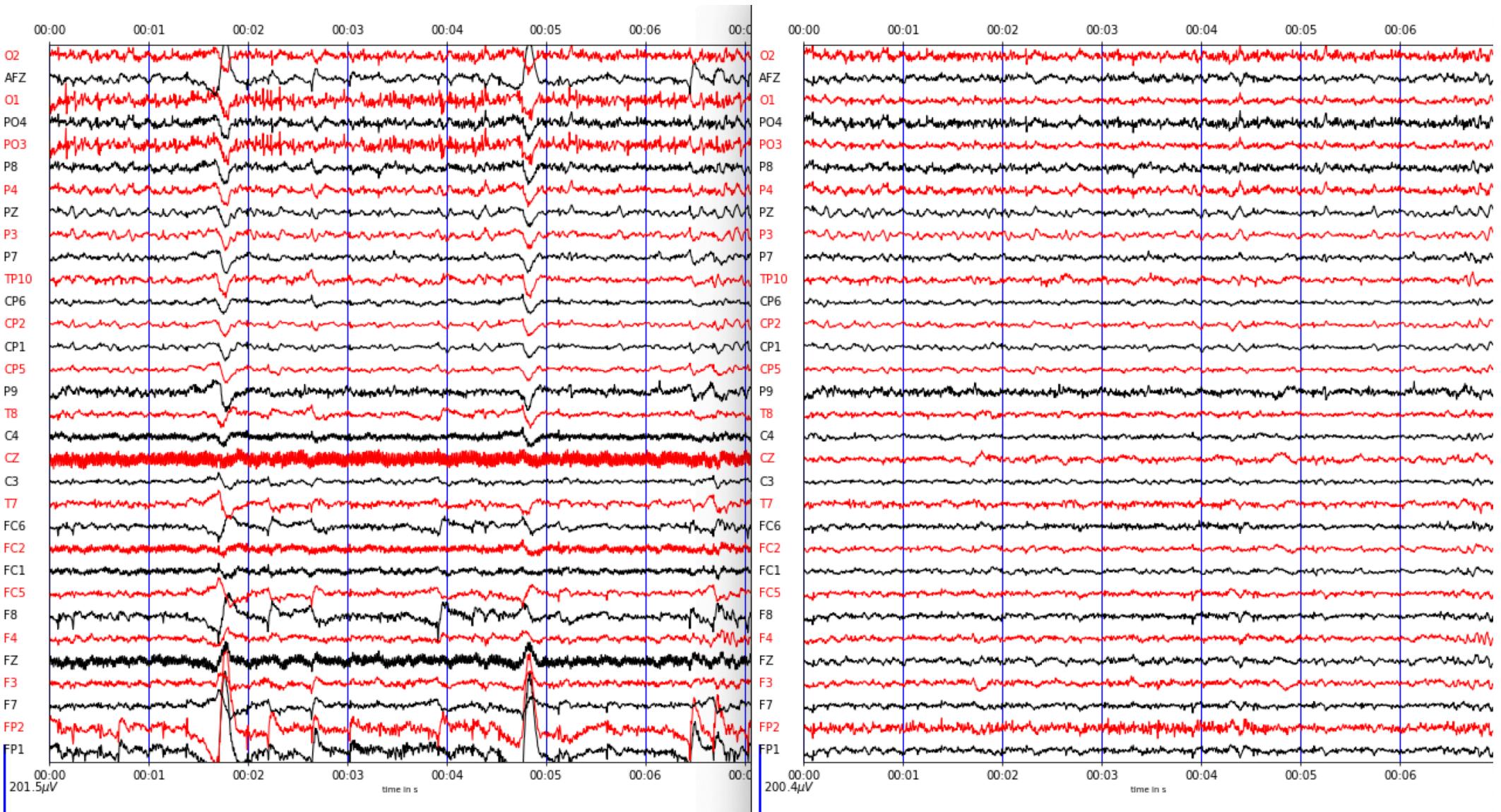
# All 10 Subjects – Silence Phase



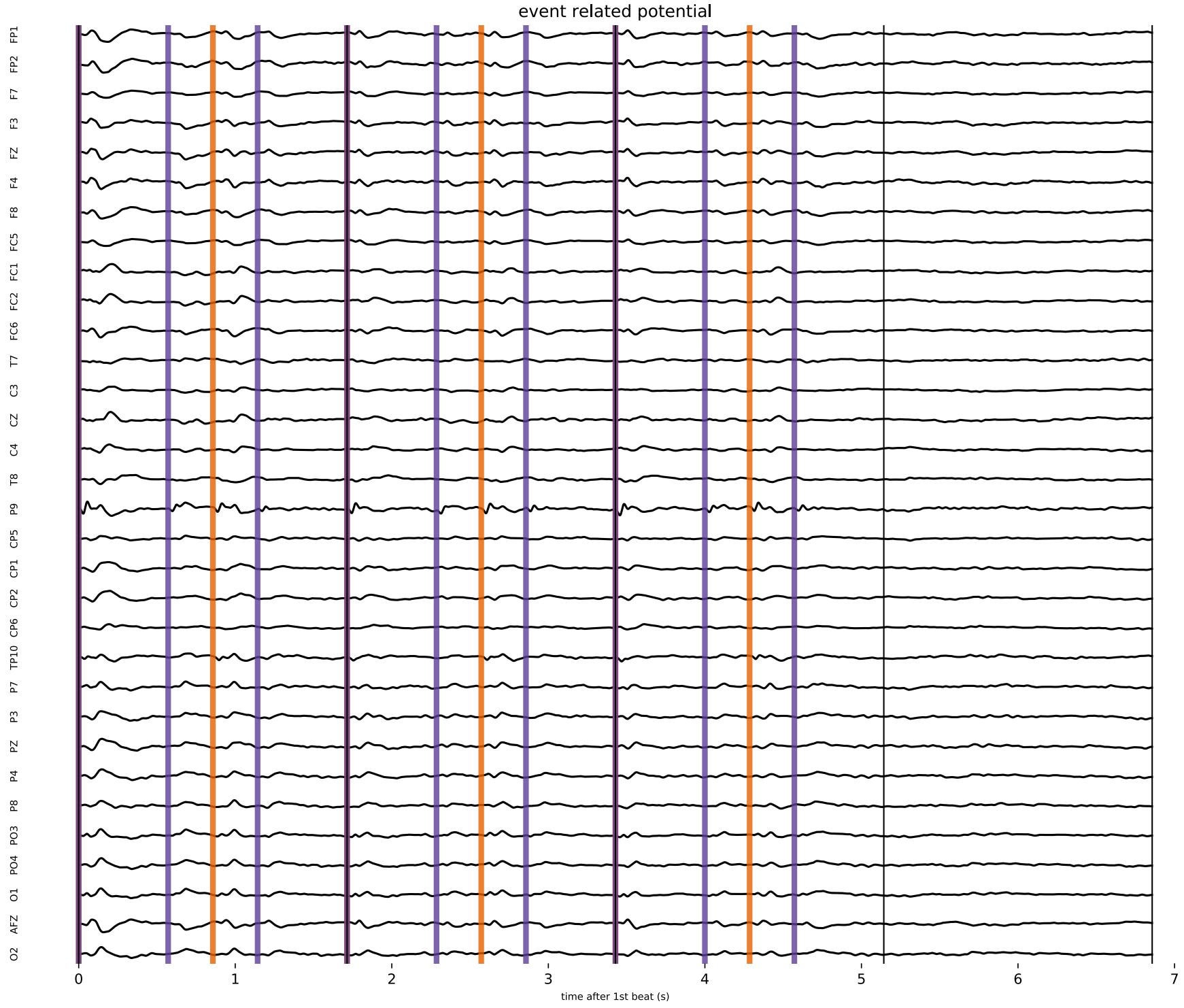
# S12 – Performance



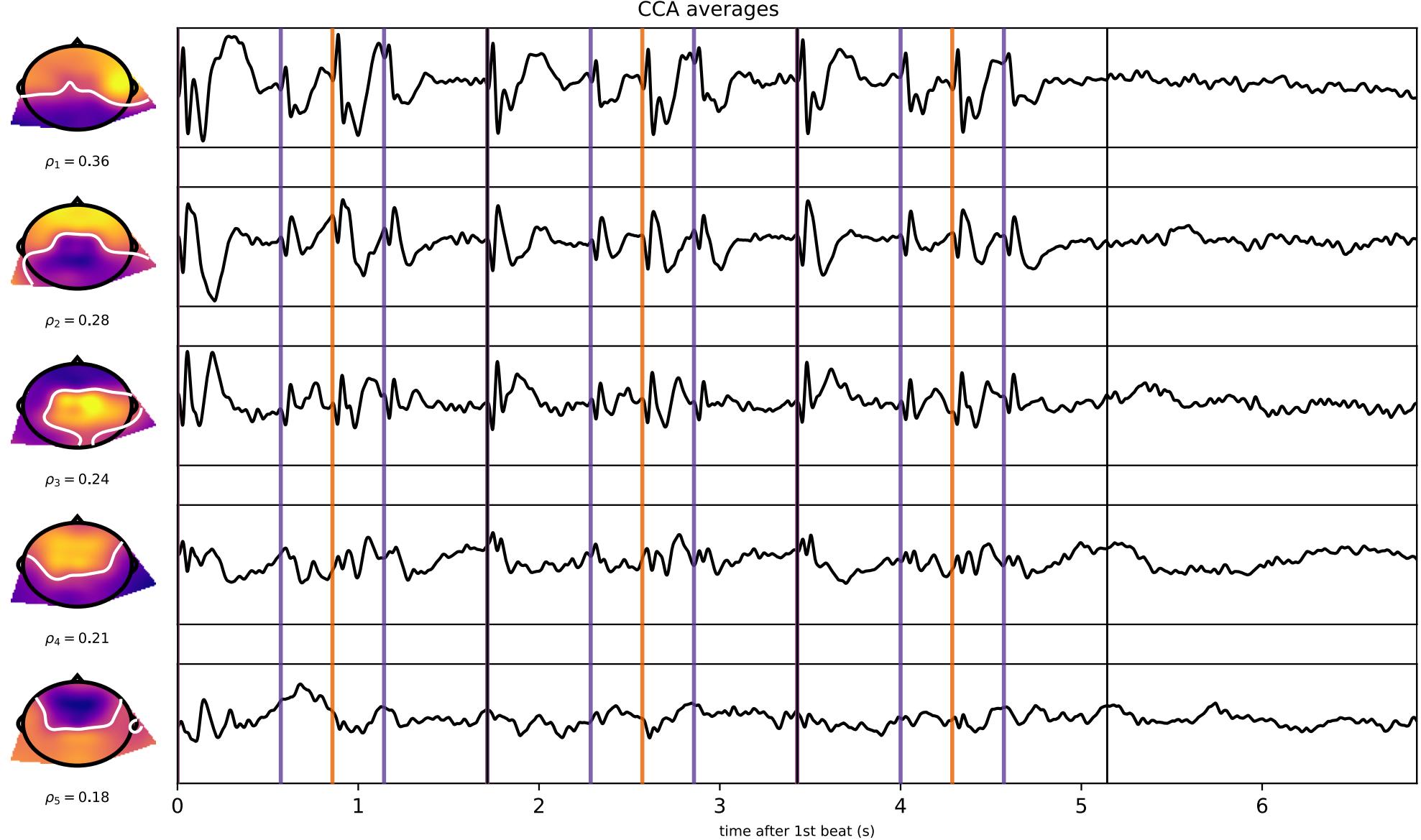
# S12 – Data Cleaning



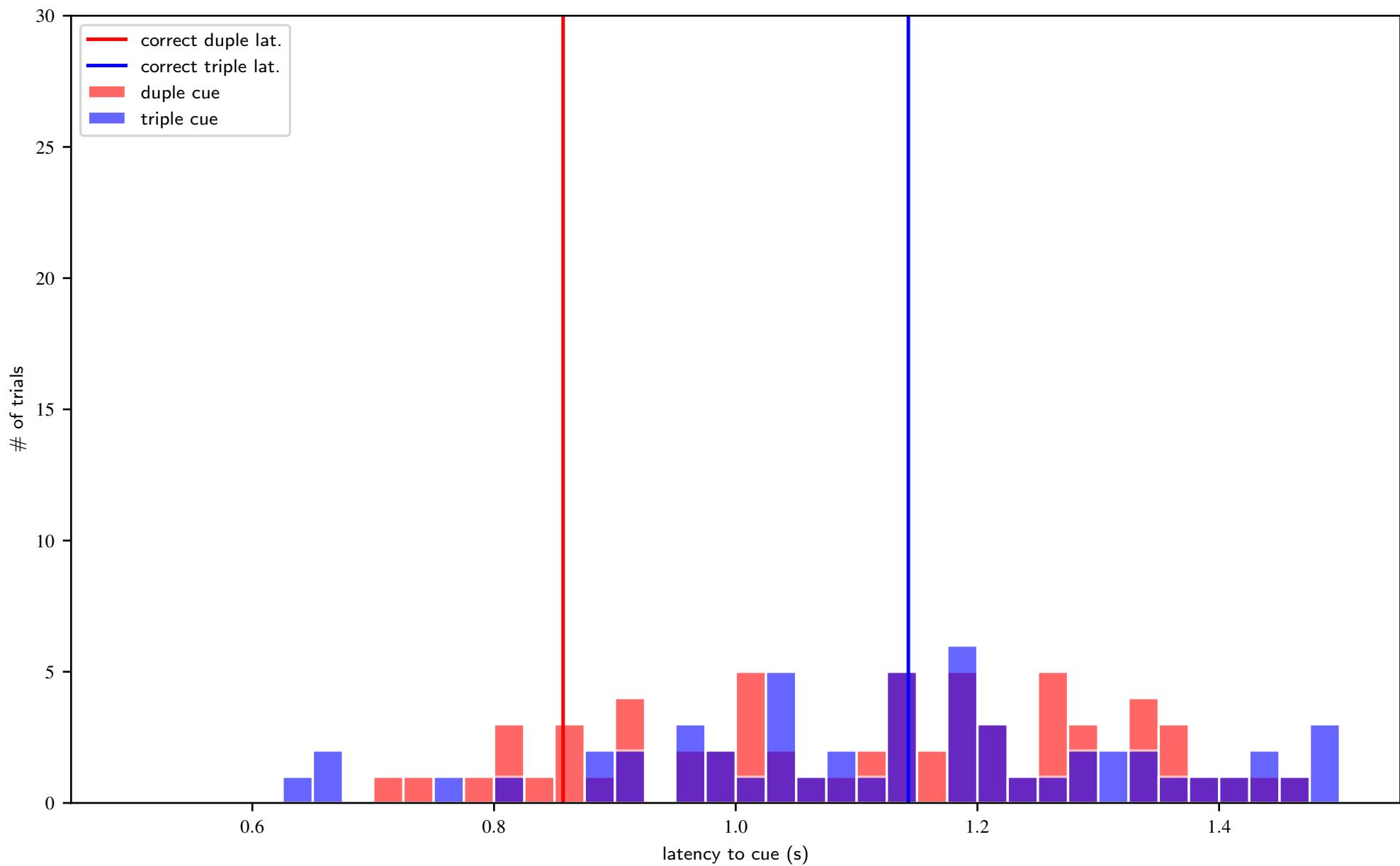
# S12 – ERP all channels



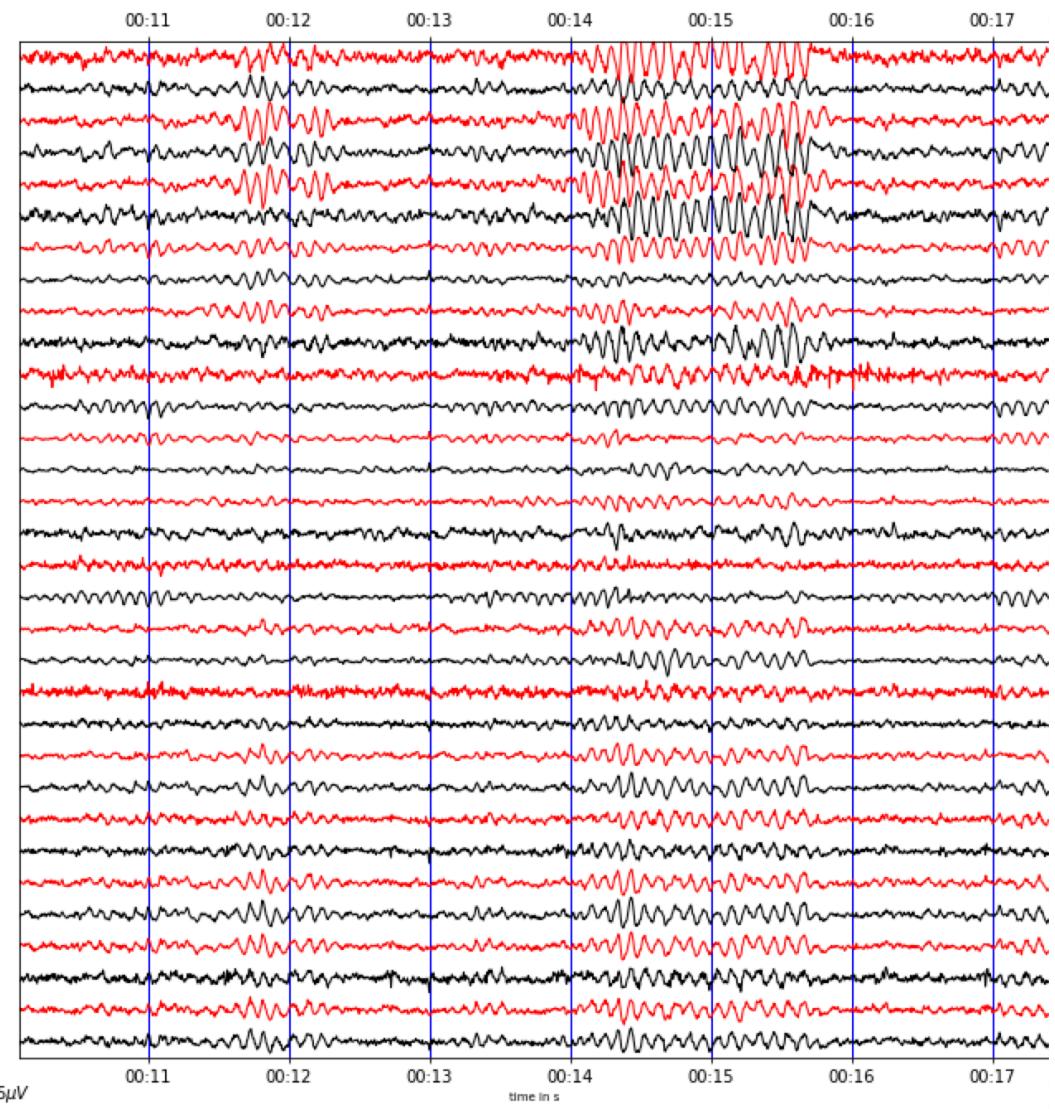
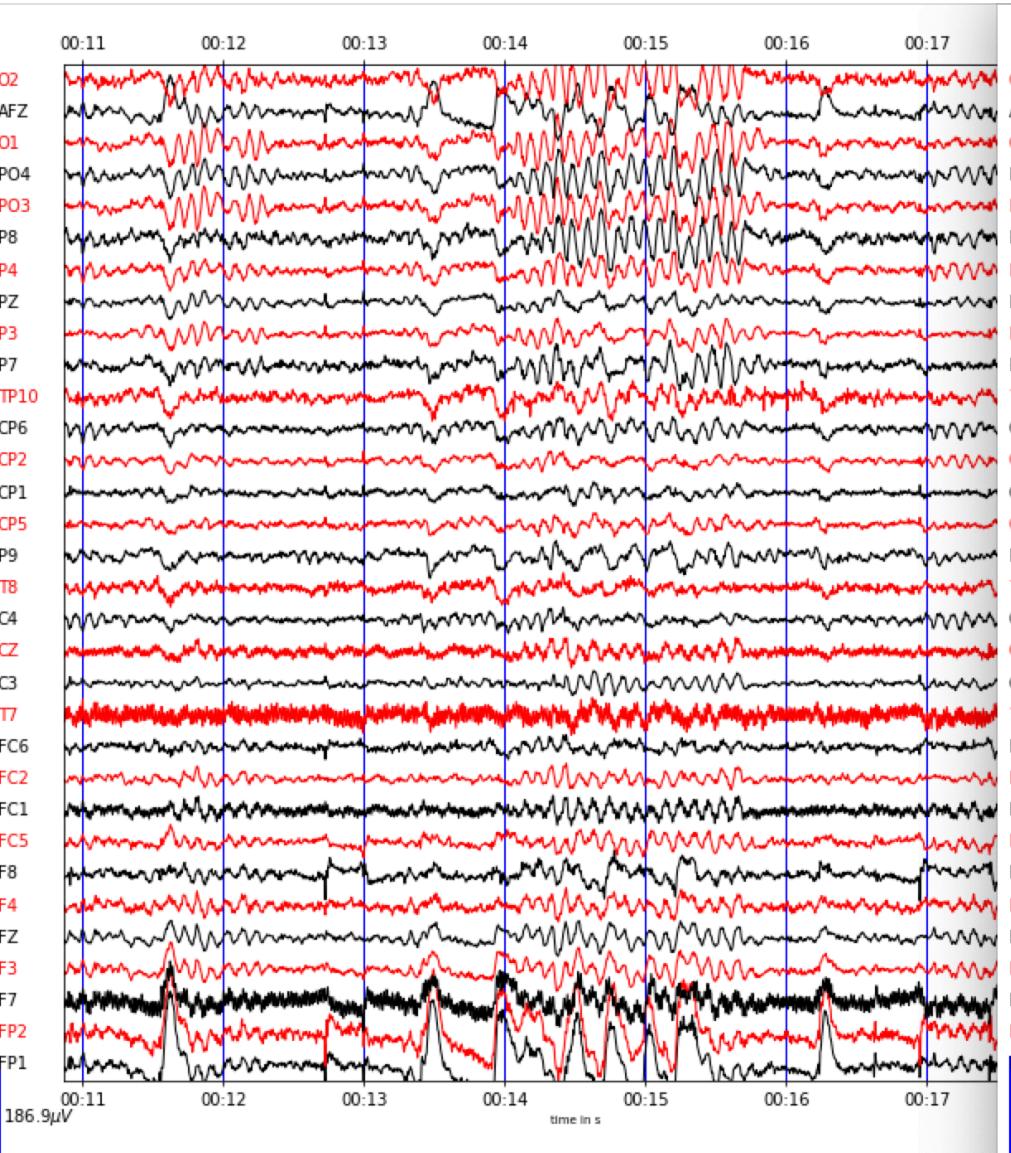
# S12 – ERP CCA



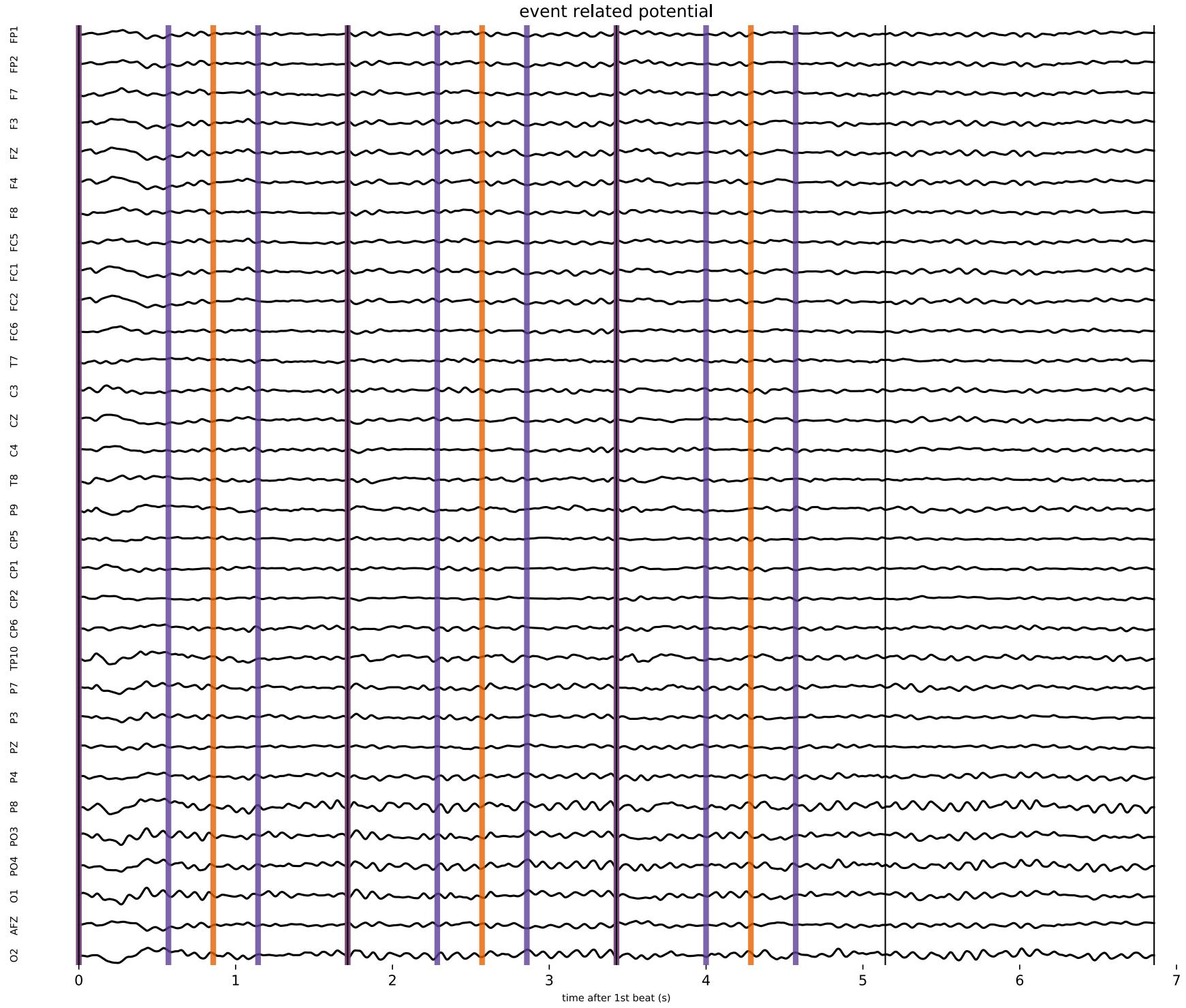
# S13 – Performance



# S13 — Data Cleaning



# S13 – ERP all channels



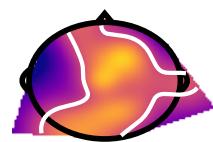
# S13 – ERP CCA



$\rho_1 = 0.25$



$\rho_2 = 0.18$



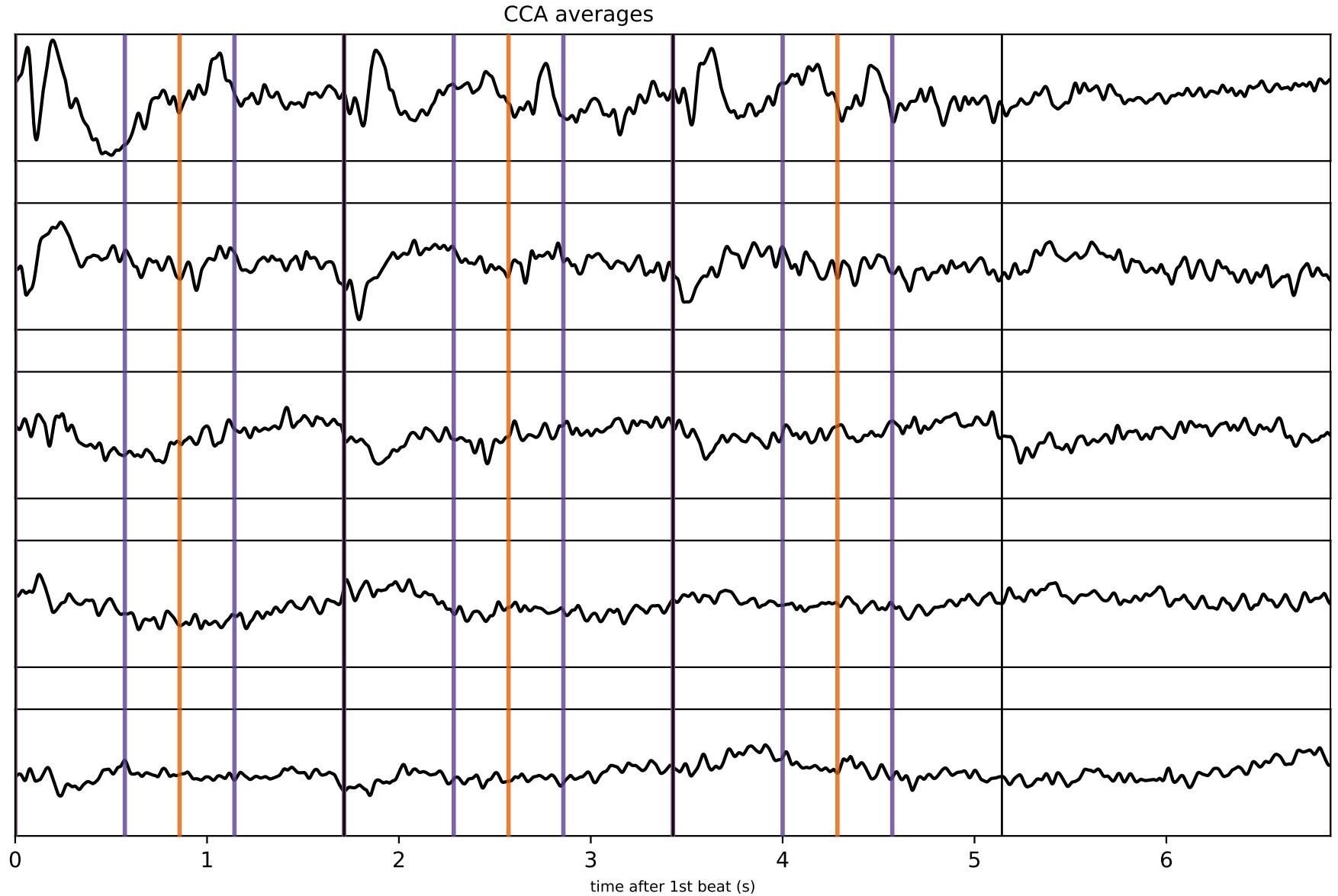
$\rho_3 = 0.15$



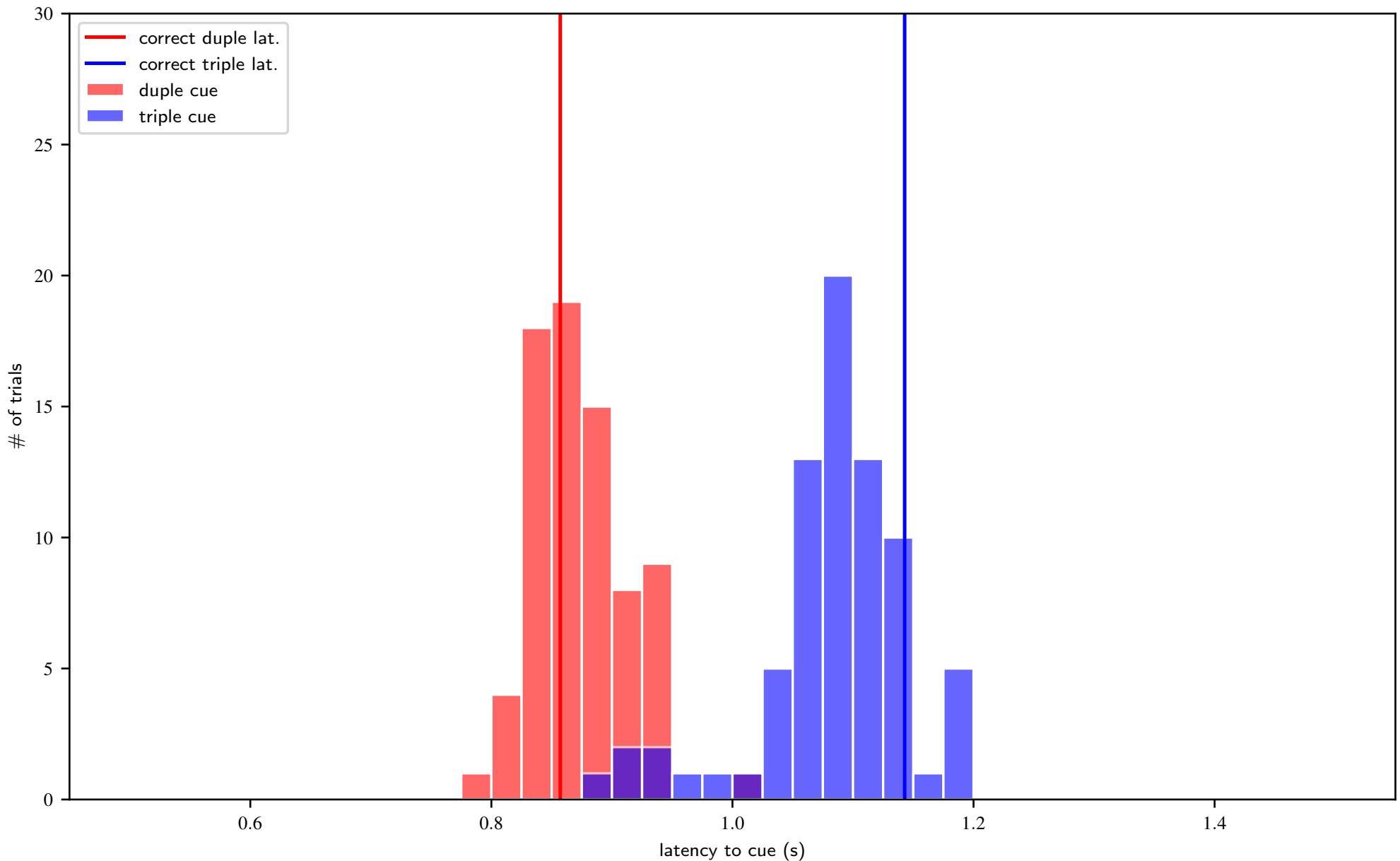
$\rho_4 = 0.14$



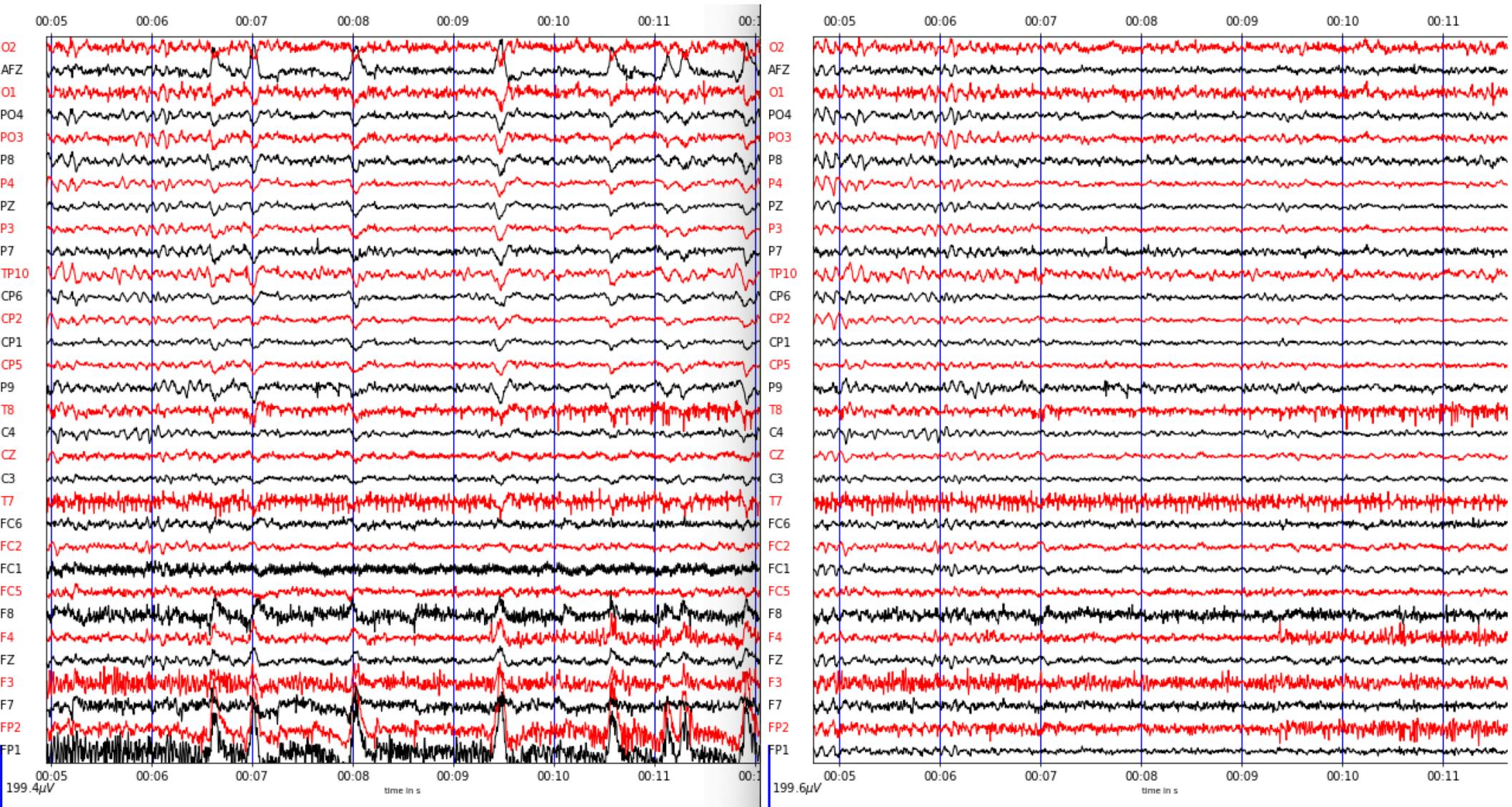
$\rho_5 = 0.12$



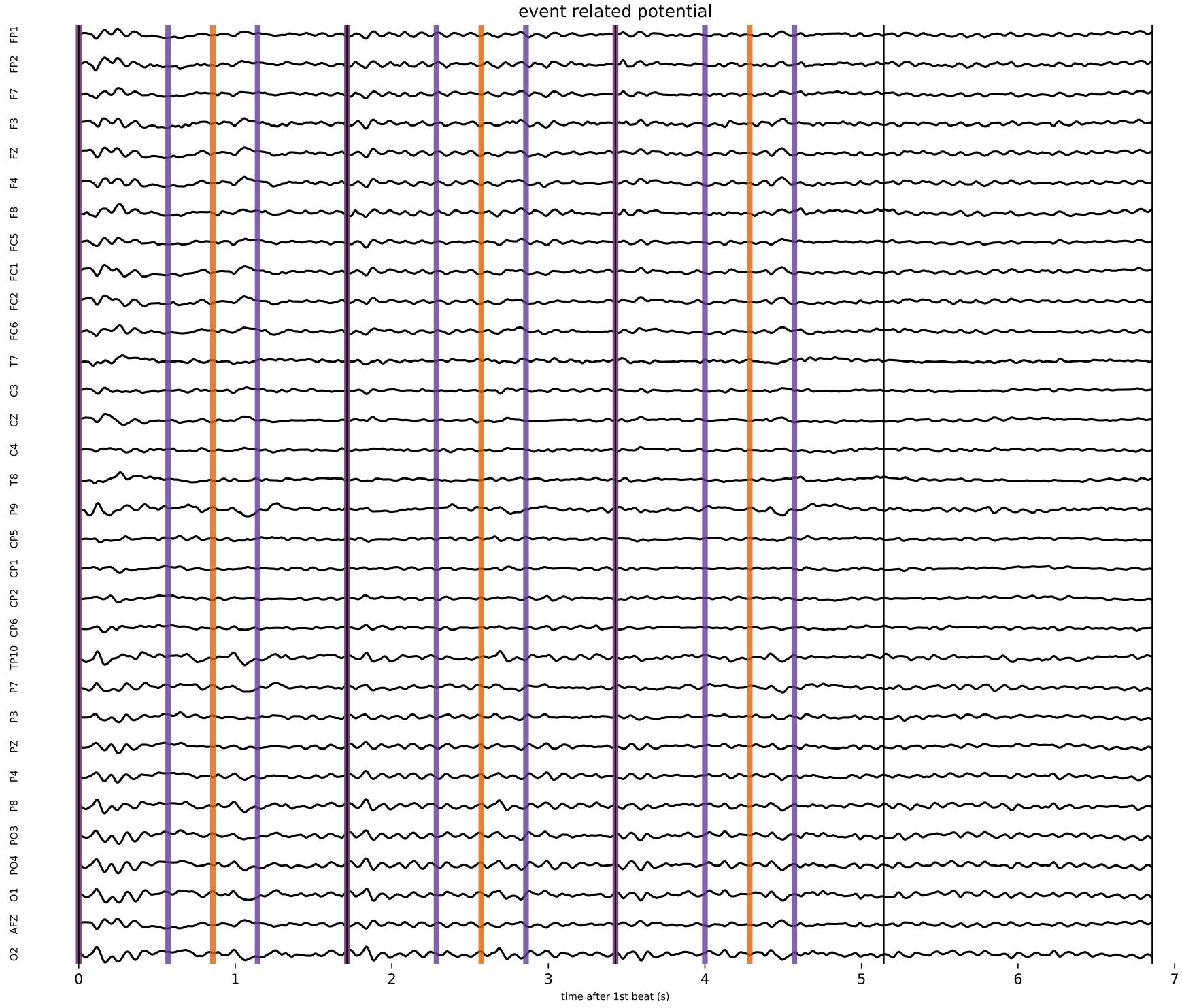
# S14 – Performance



# S14 — Data Cleaning



# S14 – ERP all channels



# S14 – ERP CCA



$\rho_1 = 0.23$



$\rho_2 = 0.22$



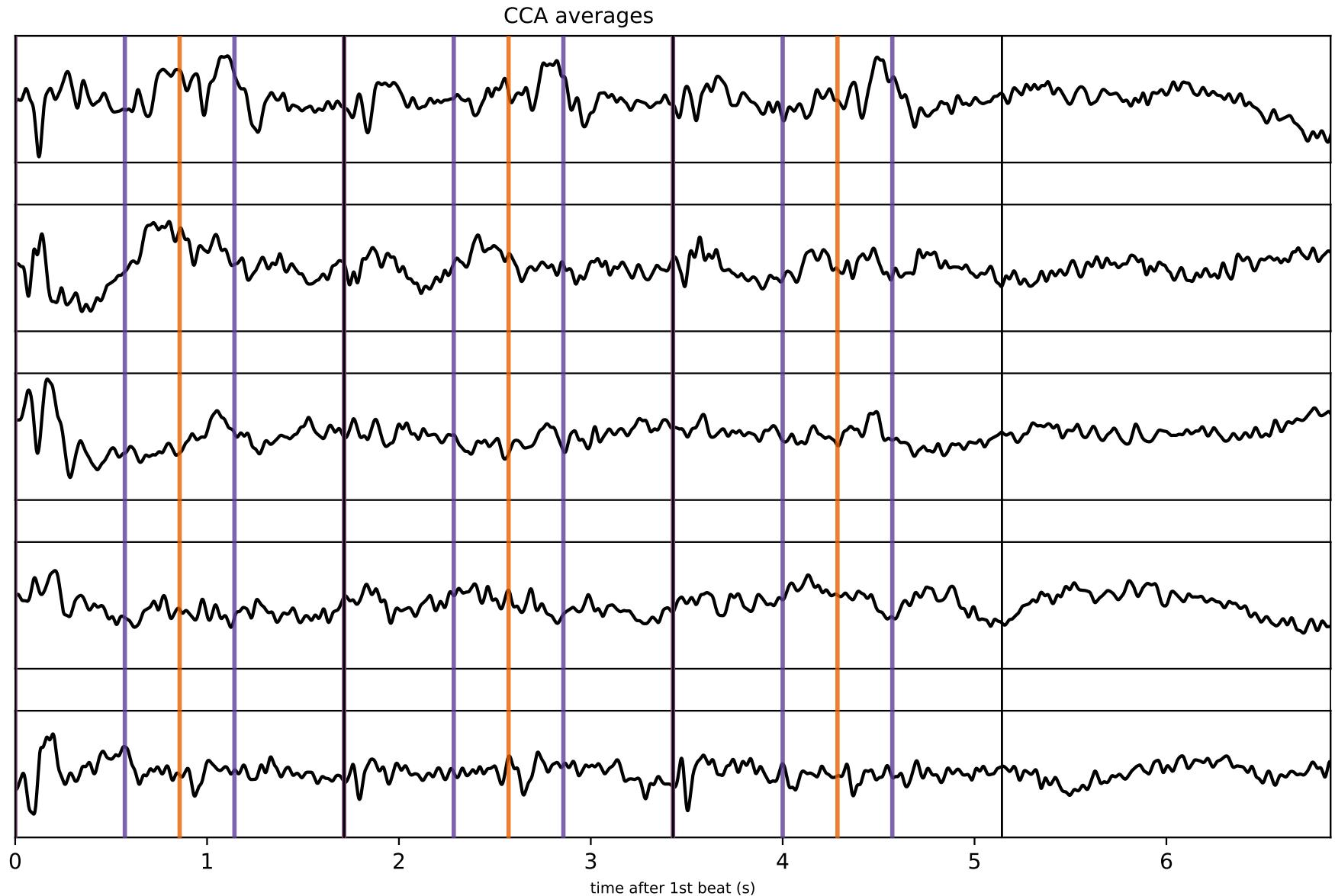
$\rho_3 = 0.19$



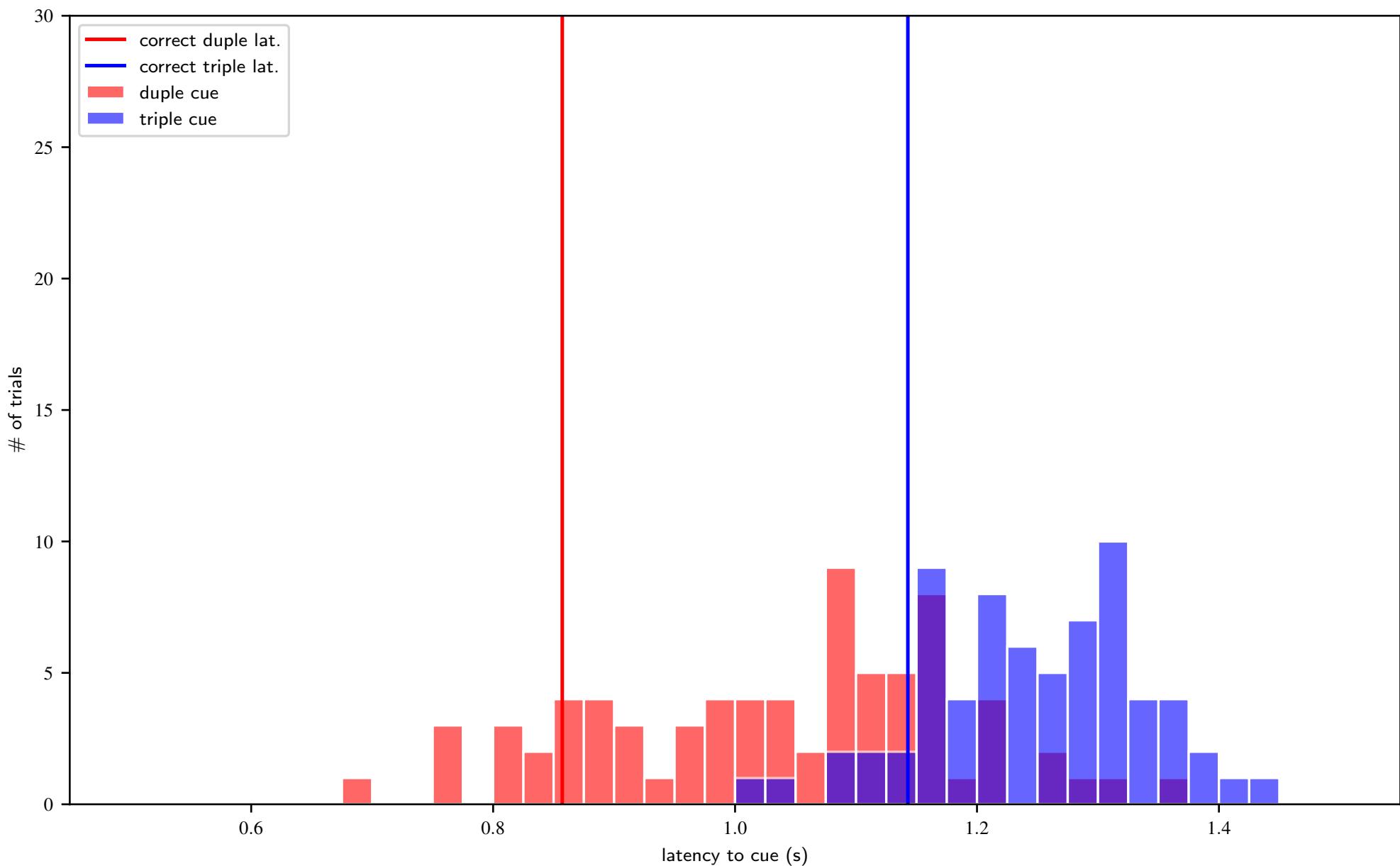
$\rho_4 = 0.18$



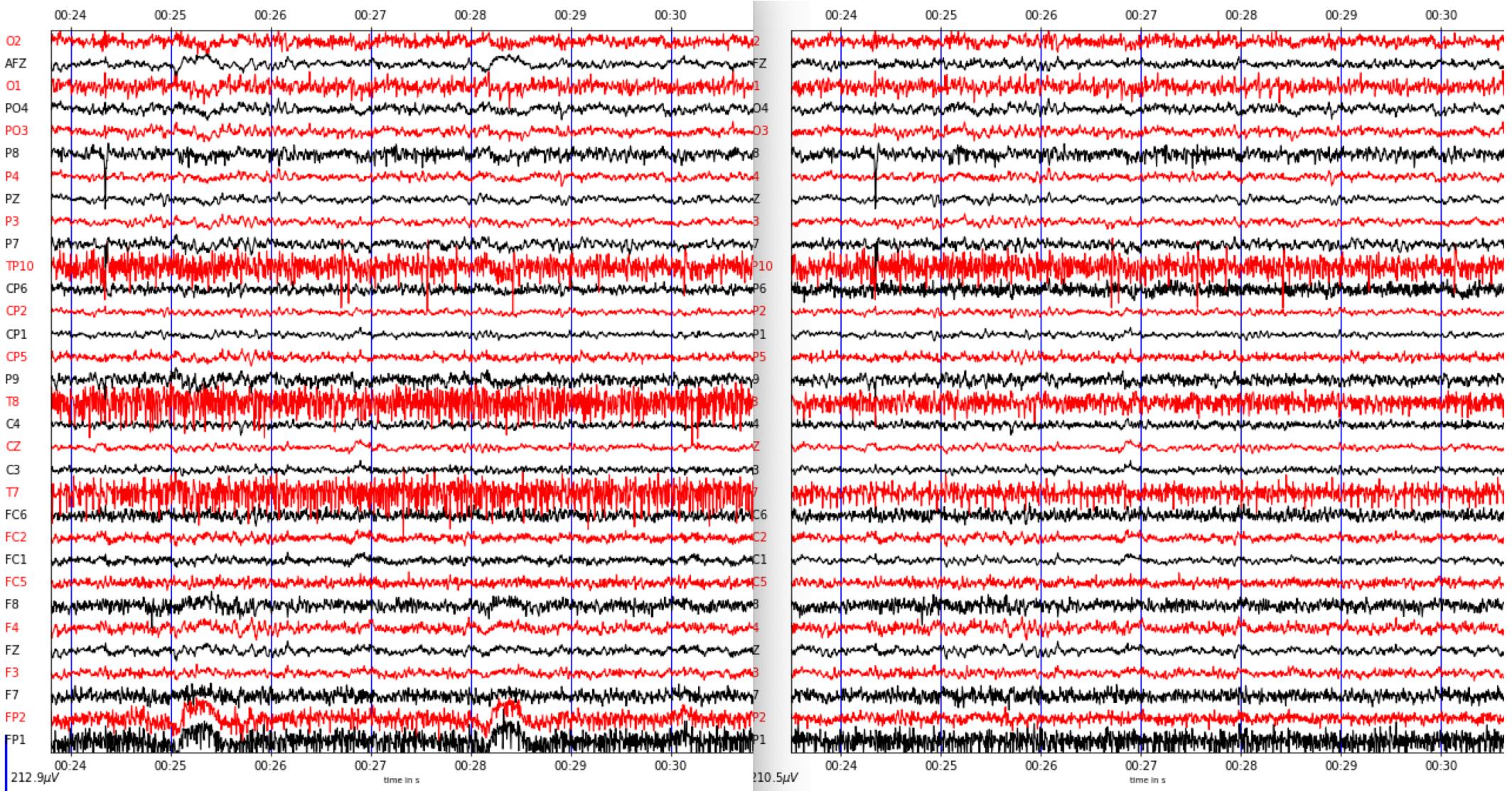
$\rho_5 = 0.15$



# S15 – Performance



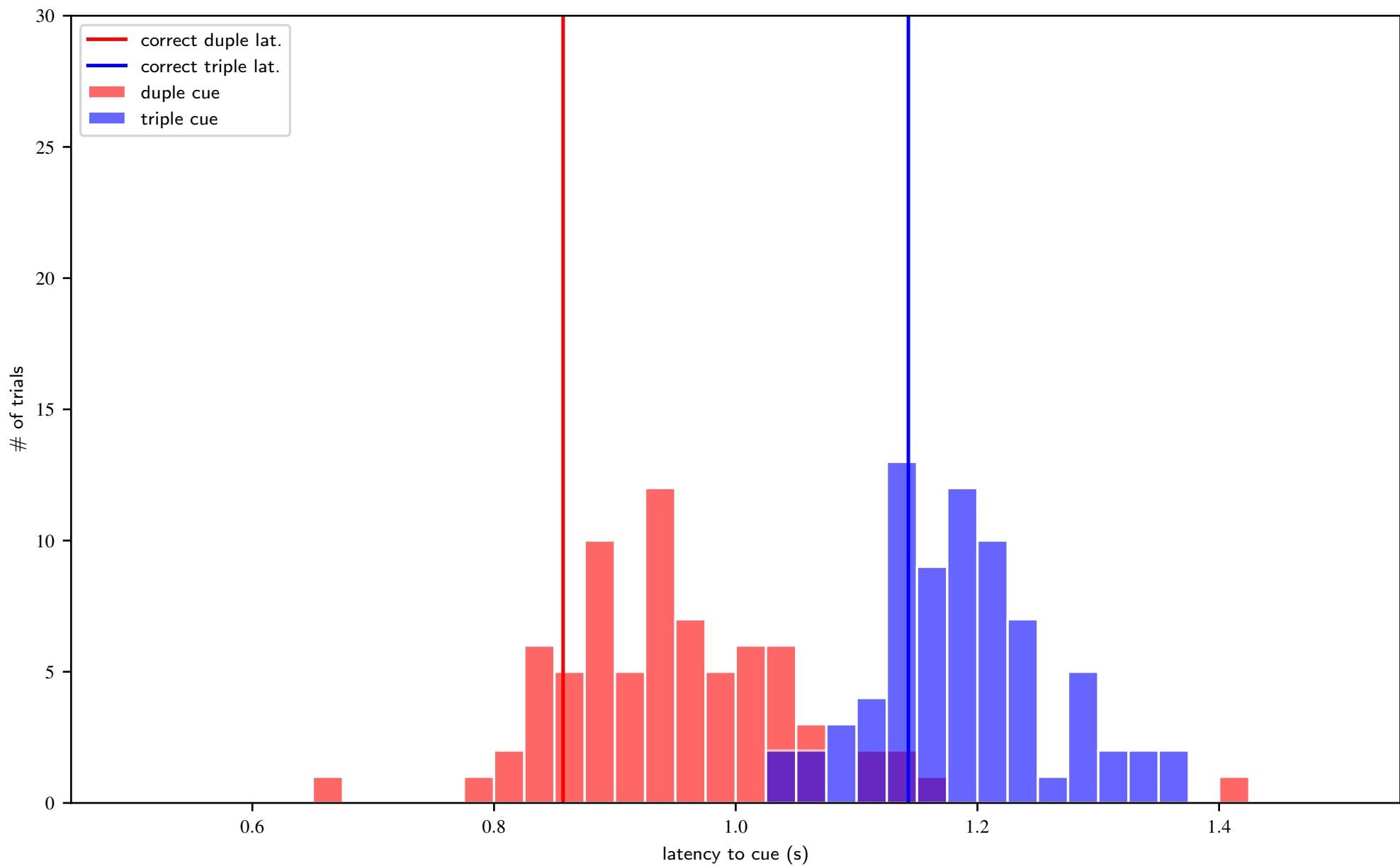
# S15 — Data Cleaning



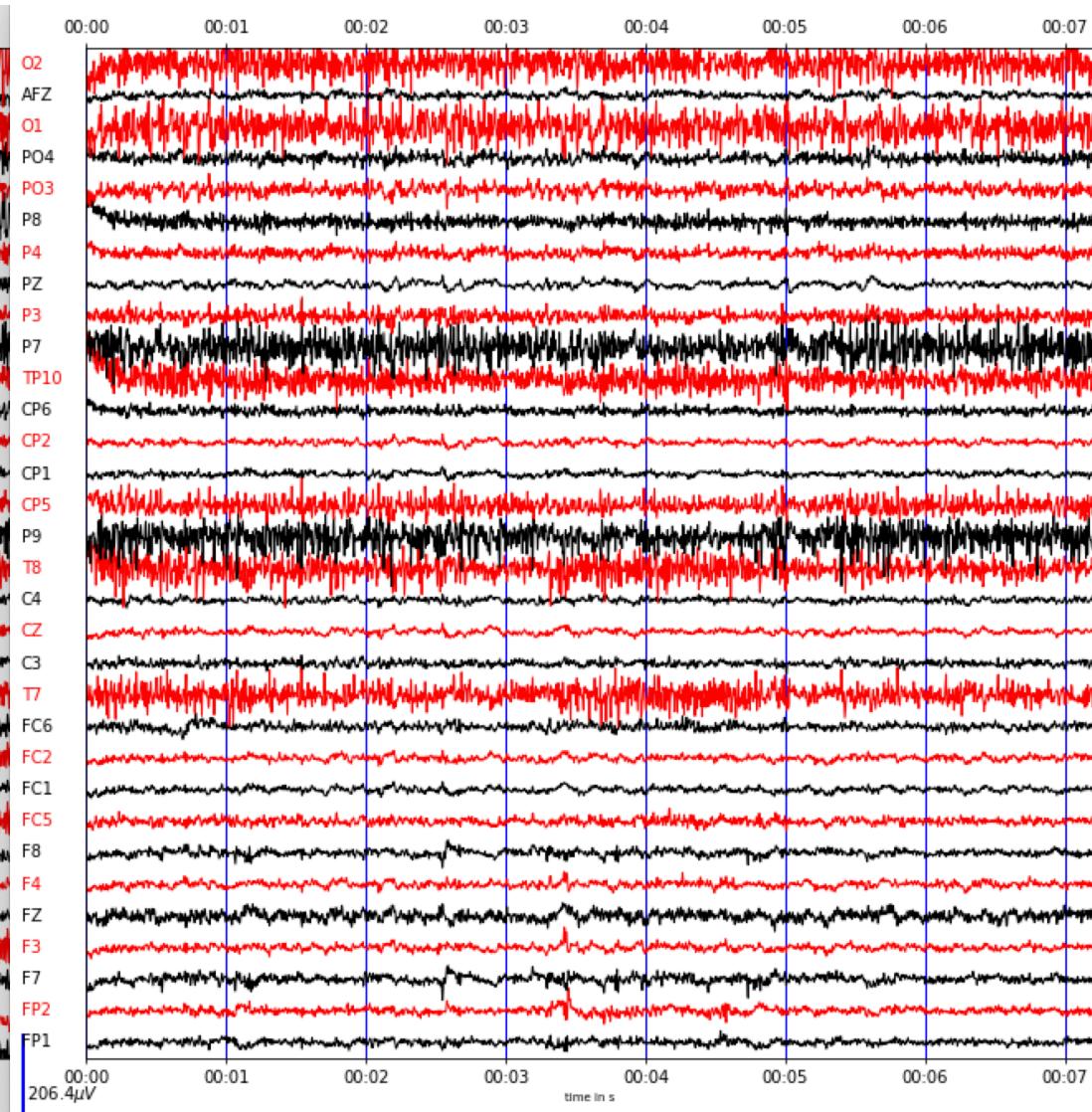
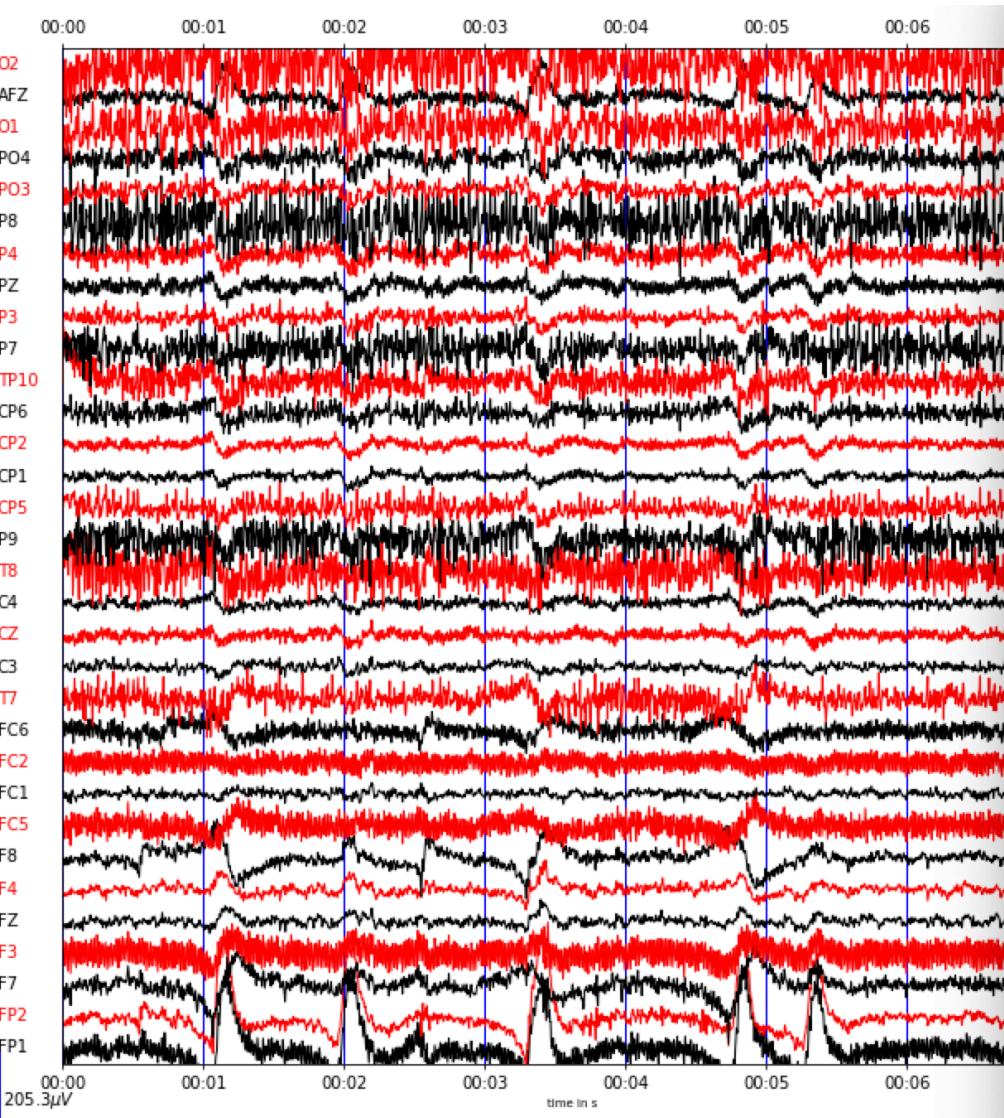
# S15 – ERP all channels

# **S15 – ERP CCA**

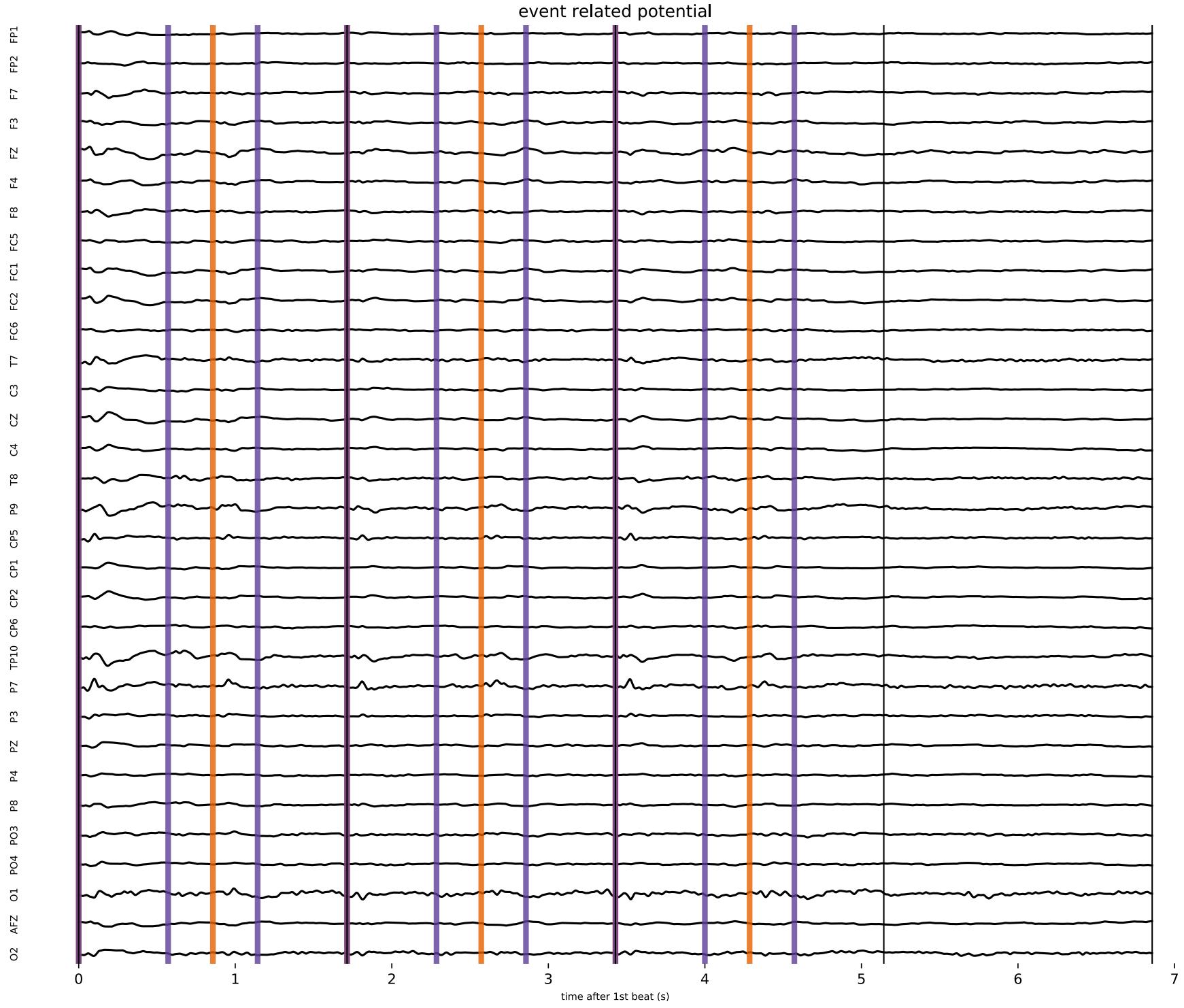
# S16 – Performance



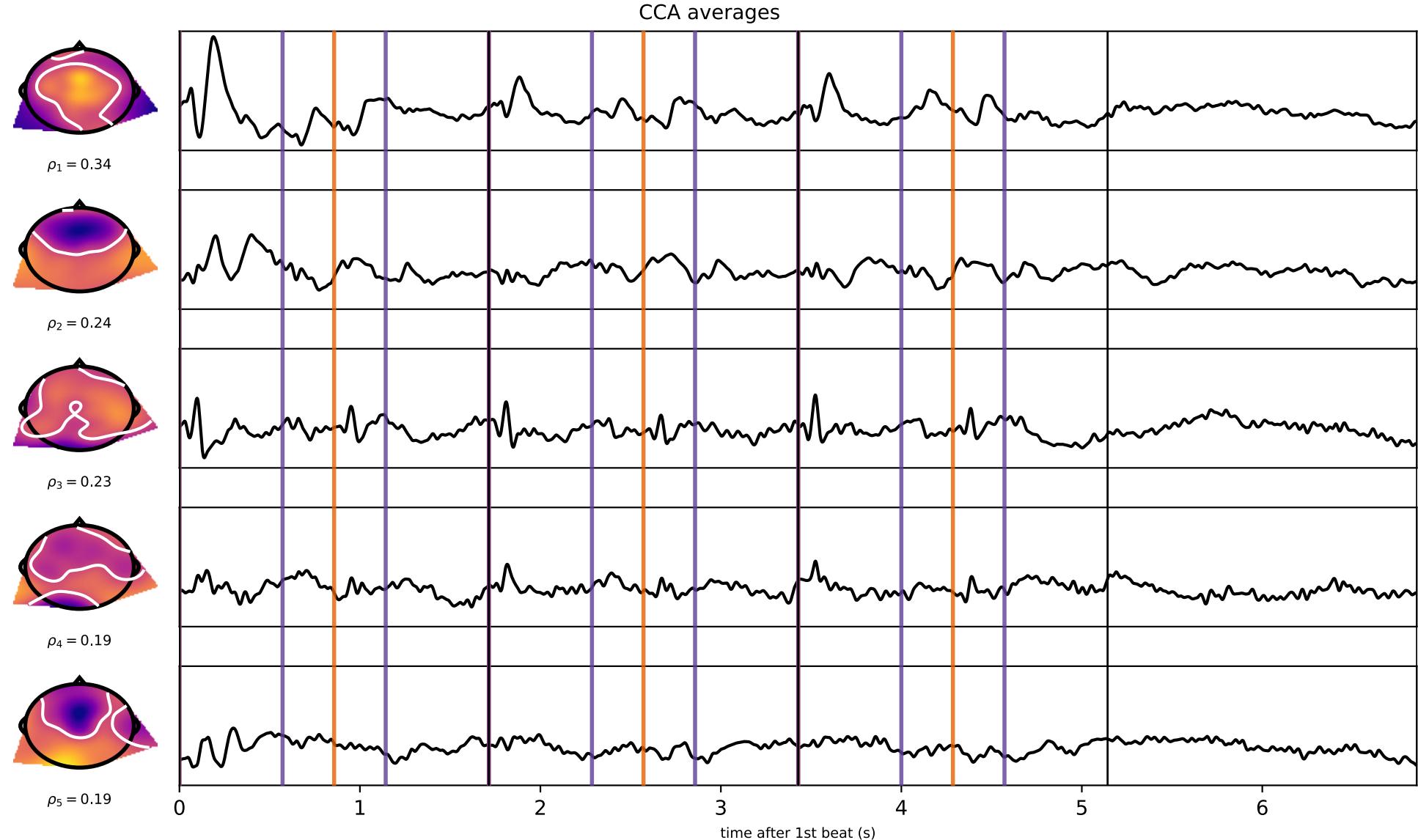
# S16 — Data Cleaning



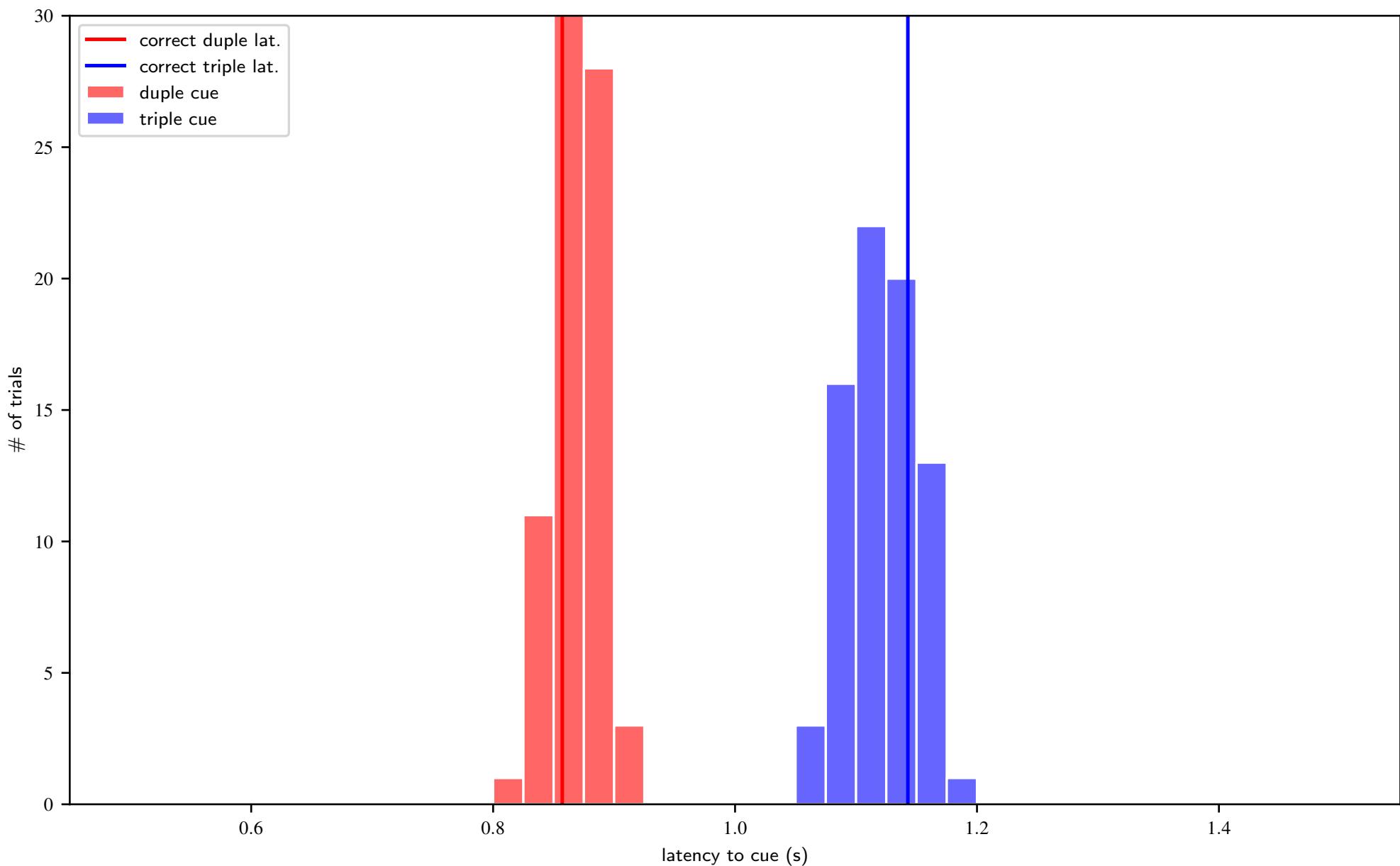
# S16 – ERP all channels



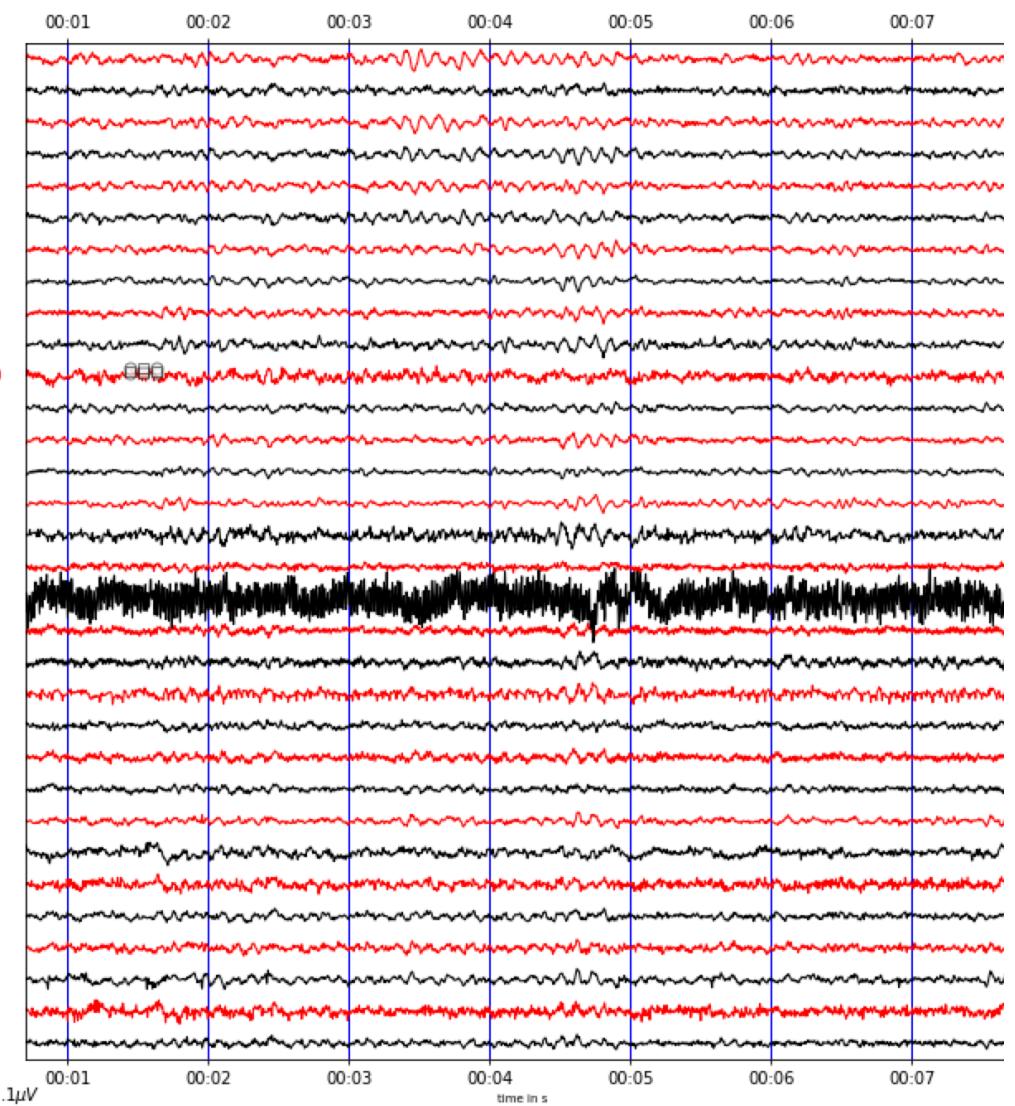
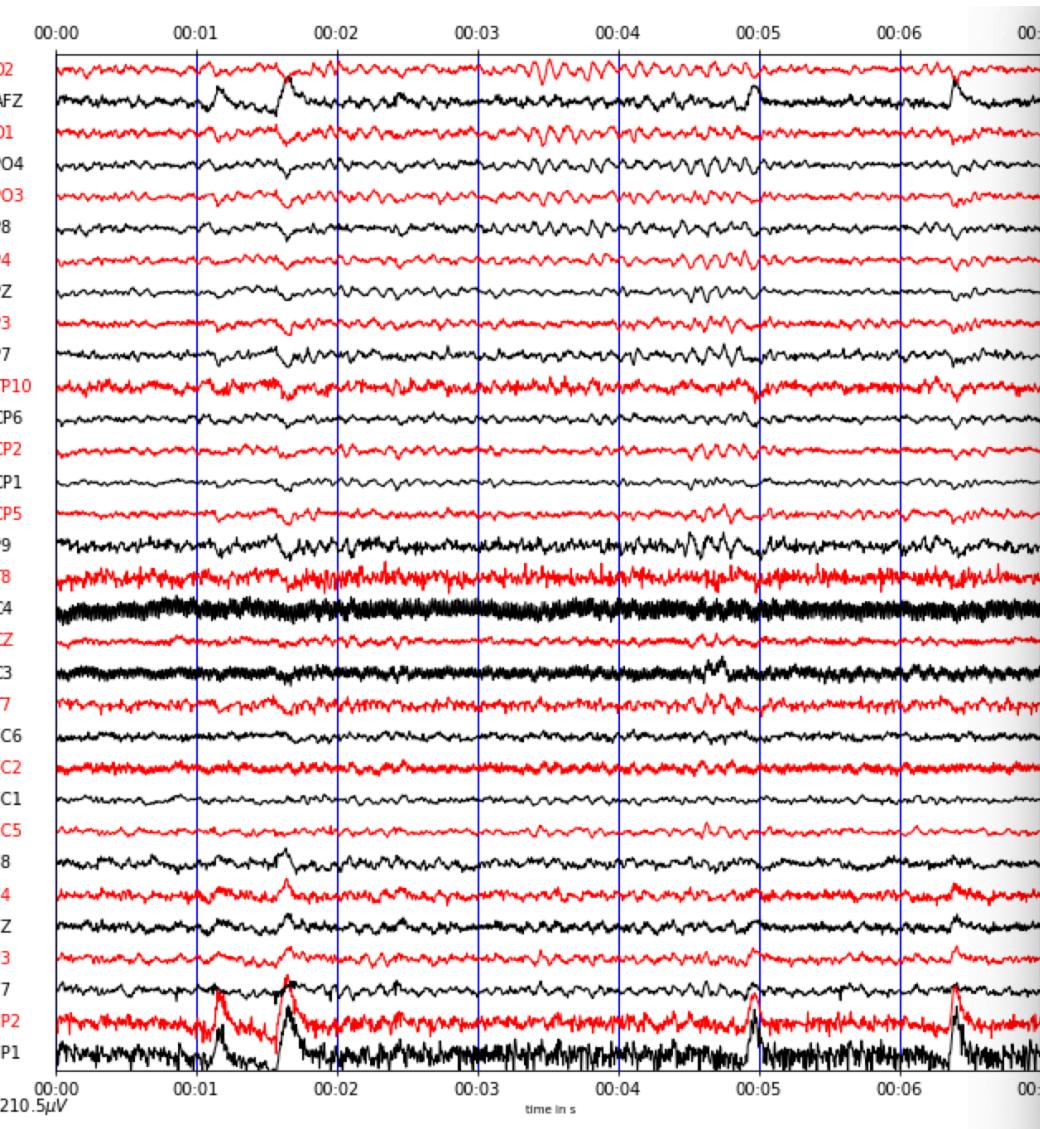
# S16 – ERP CCA



# S17 – Performance



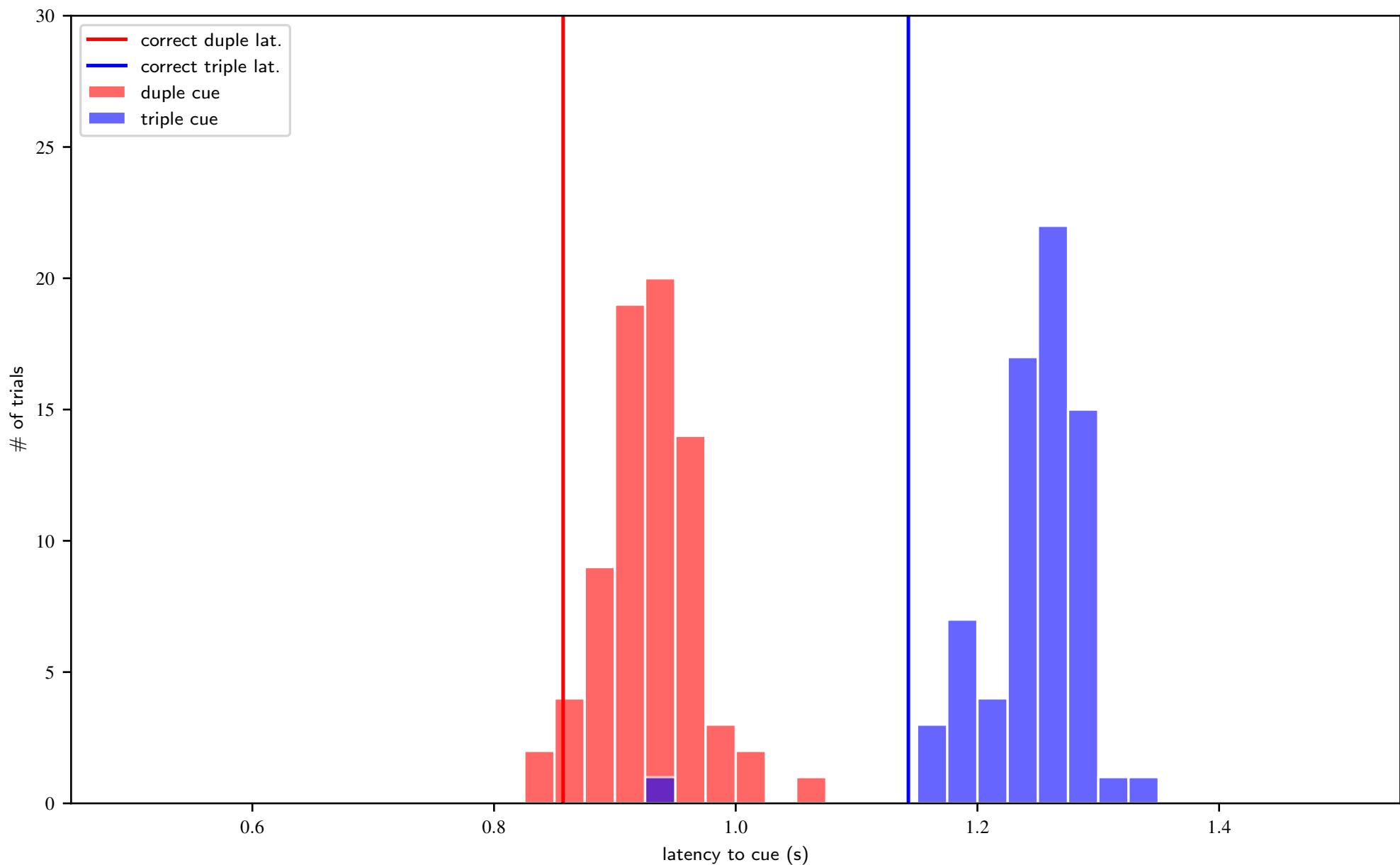
# S17 — Data Cleaning



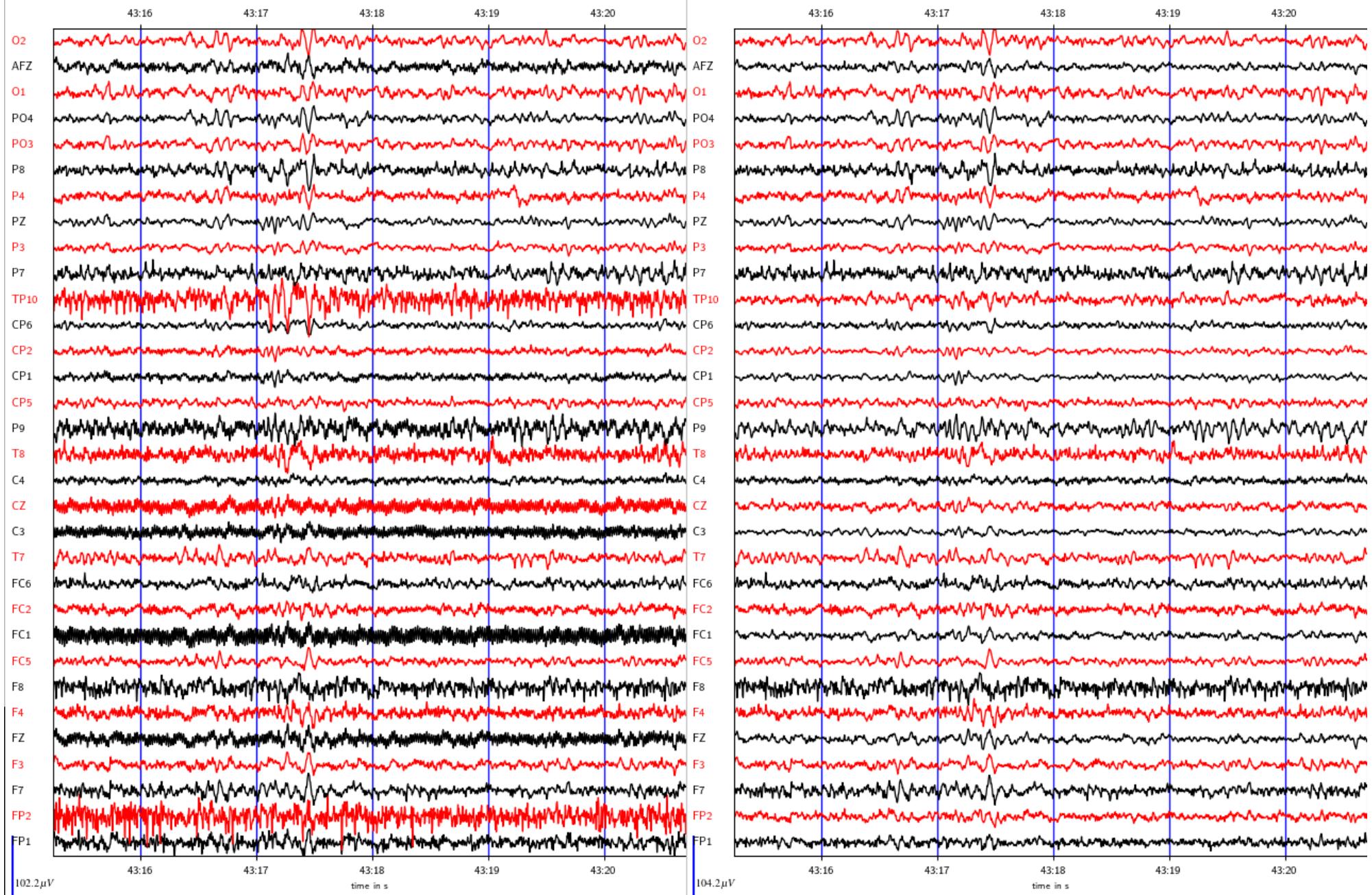
# S17 – ERP all channels

# **S17 – ERP CCA**

# S18 – Performance



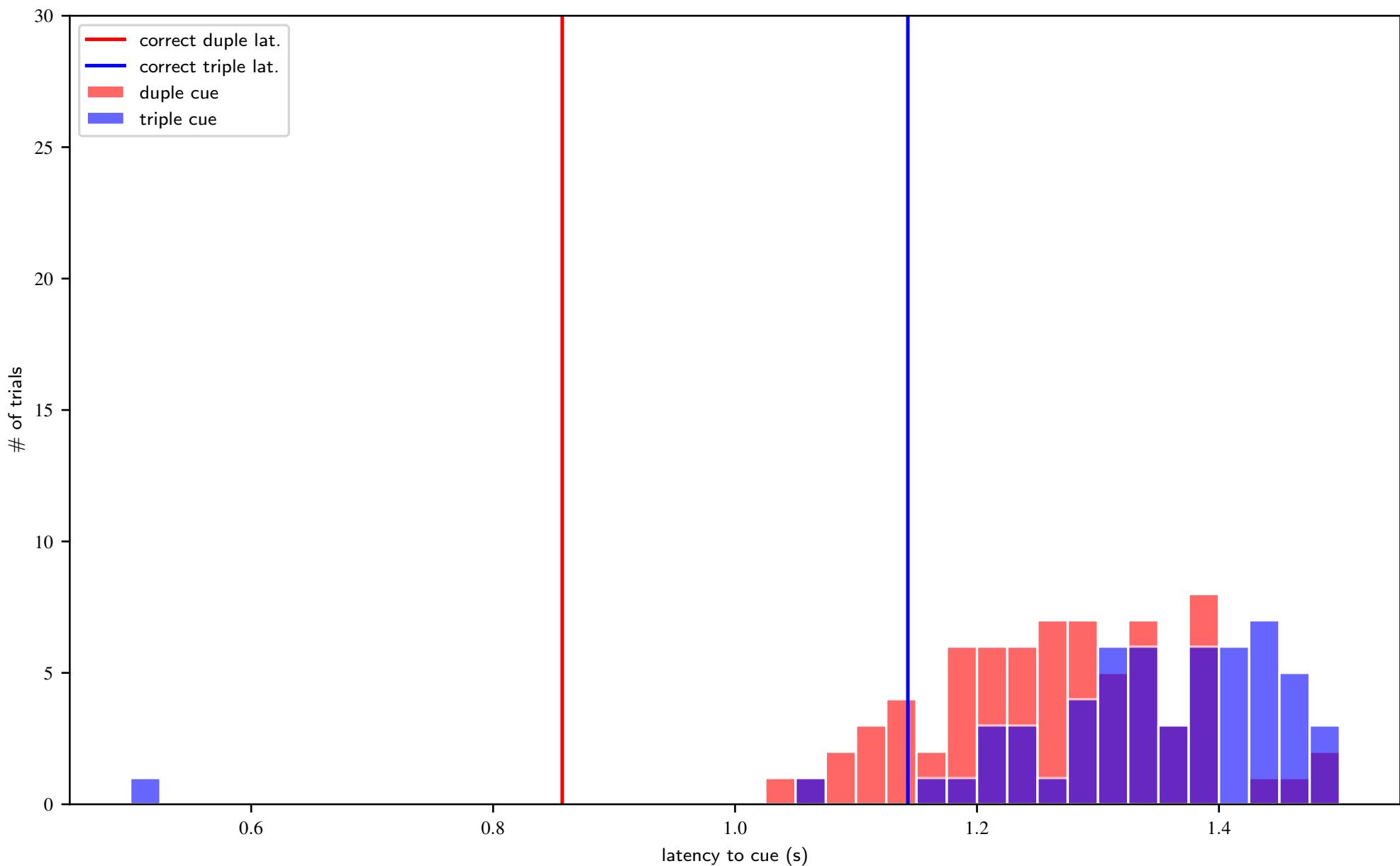
# S18 — Data Cleaning



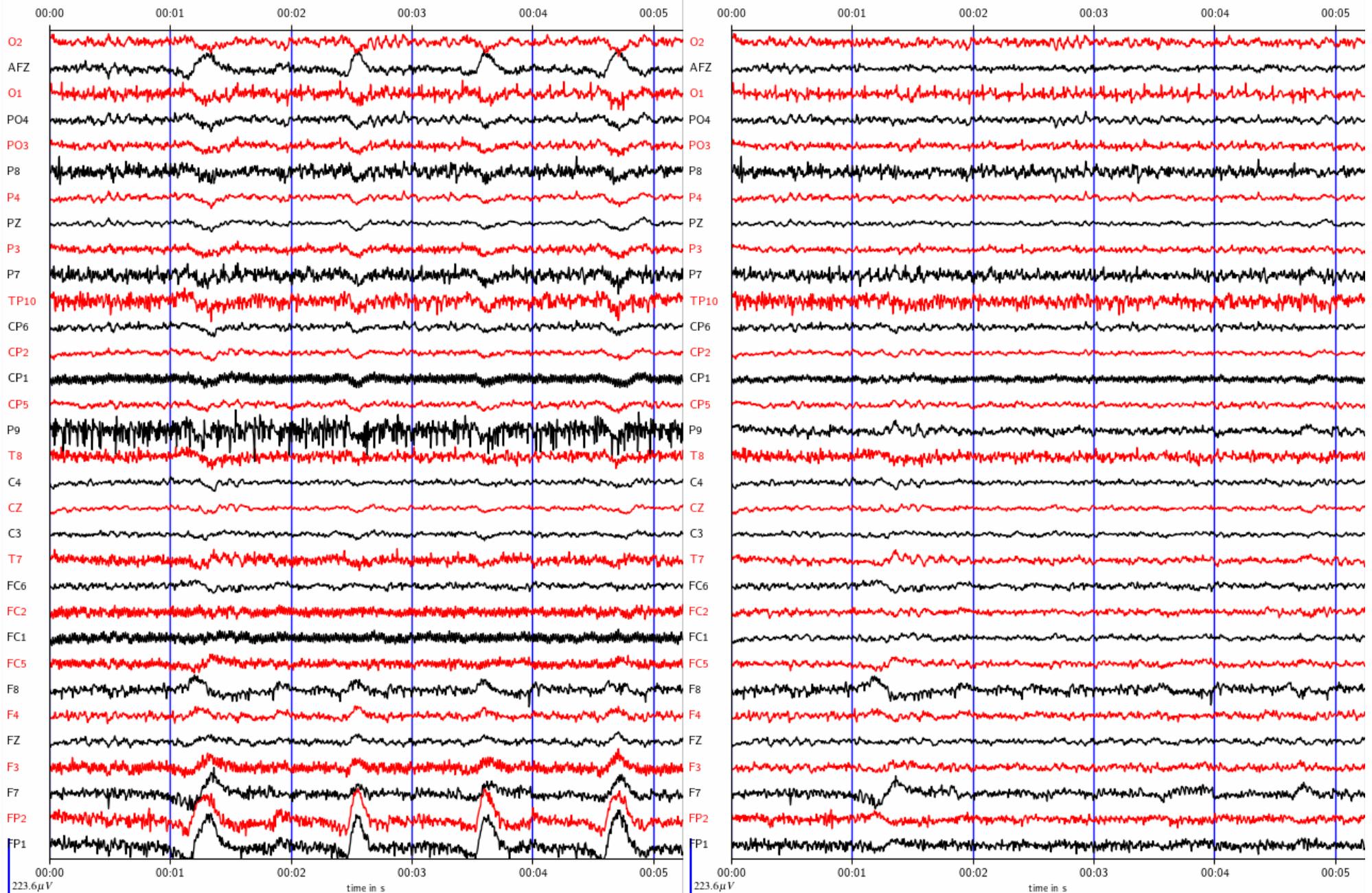
# S18 – ERP all channels

# **S18 – ERP CCA**

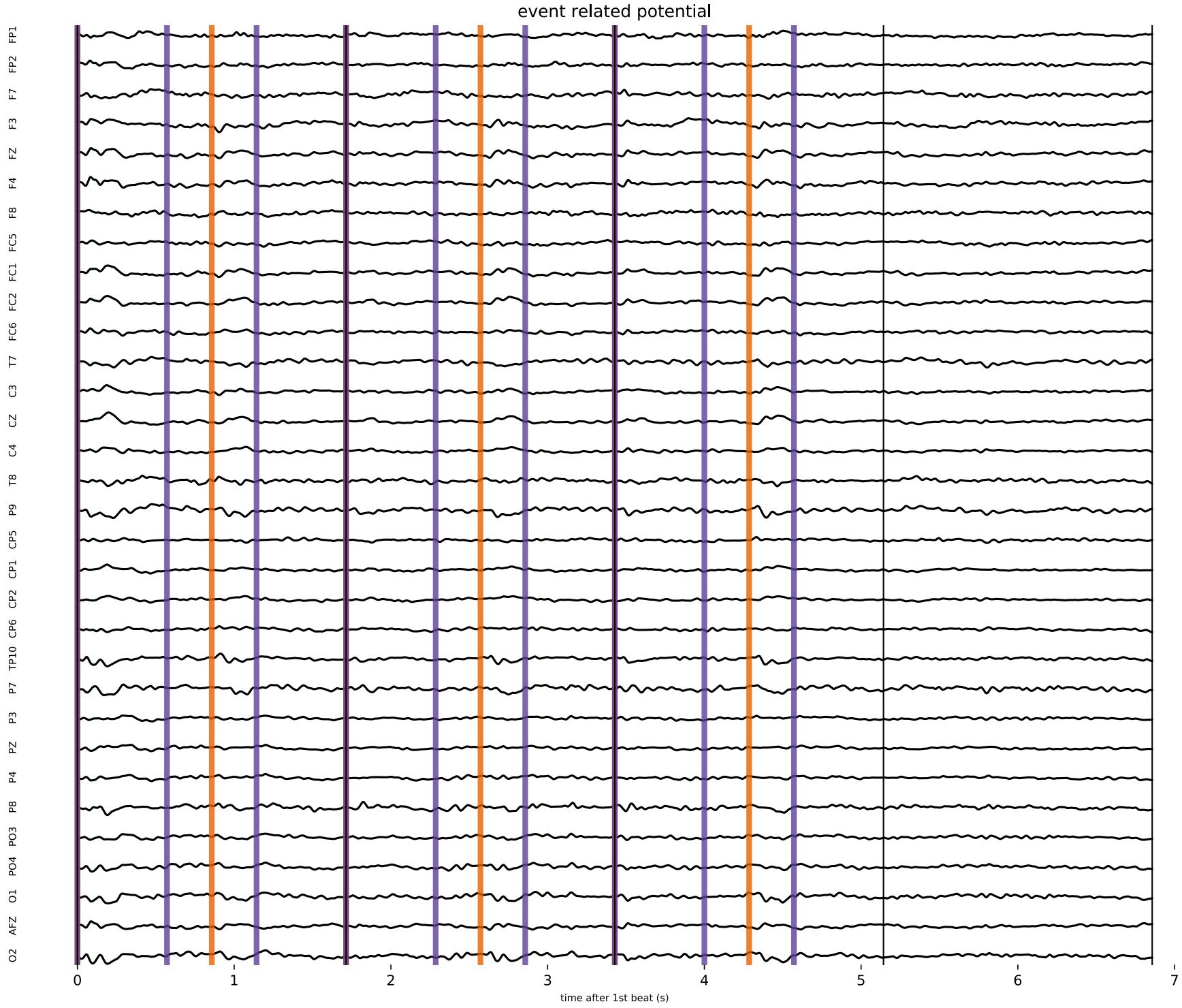
# S19 – Performance



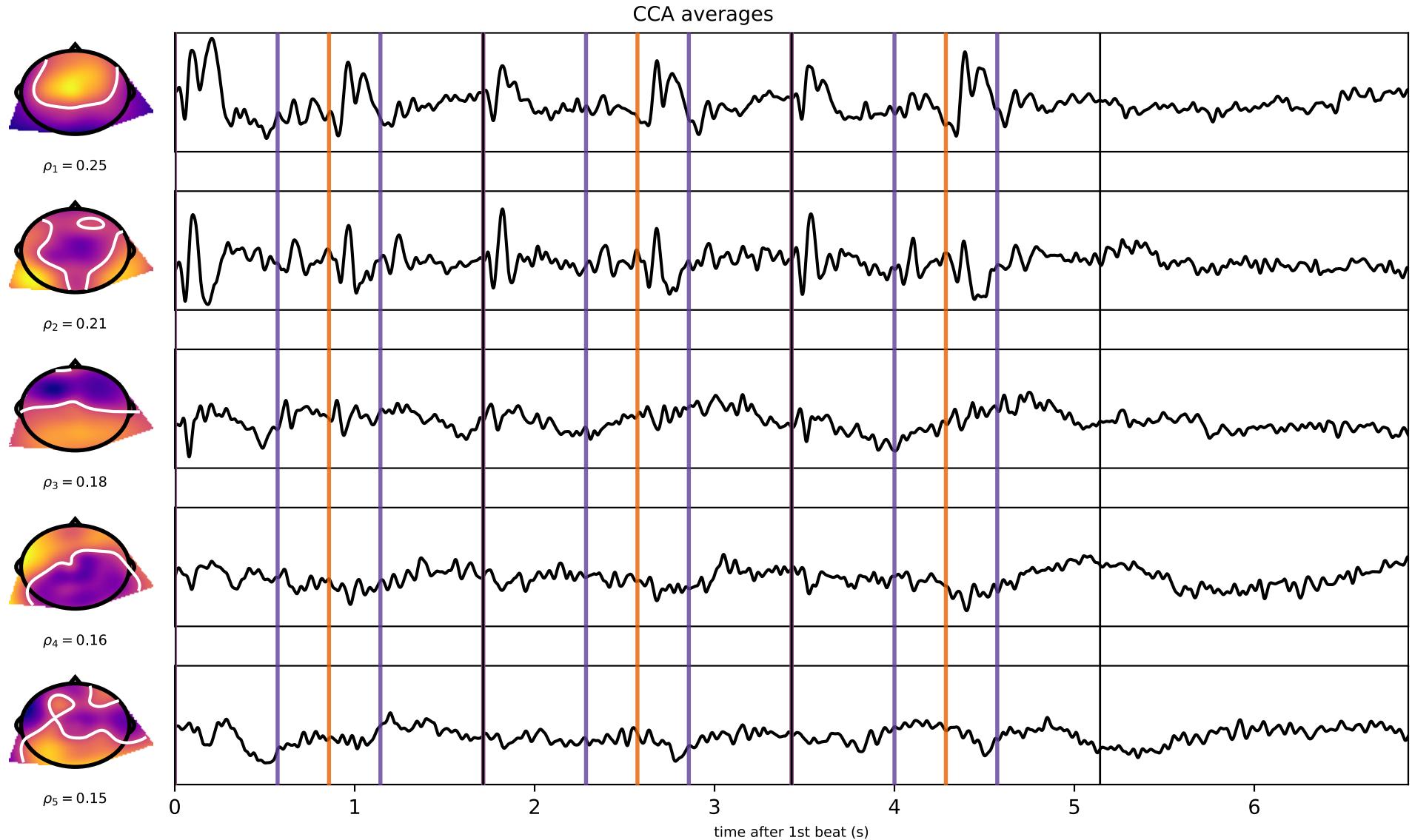
# S19 — Data Cleaning



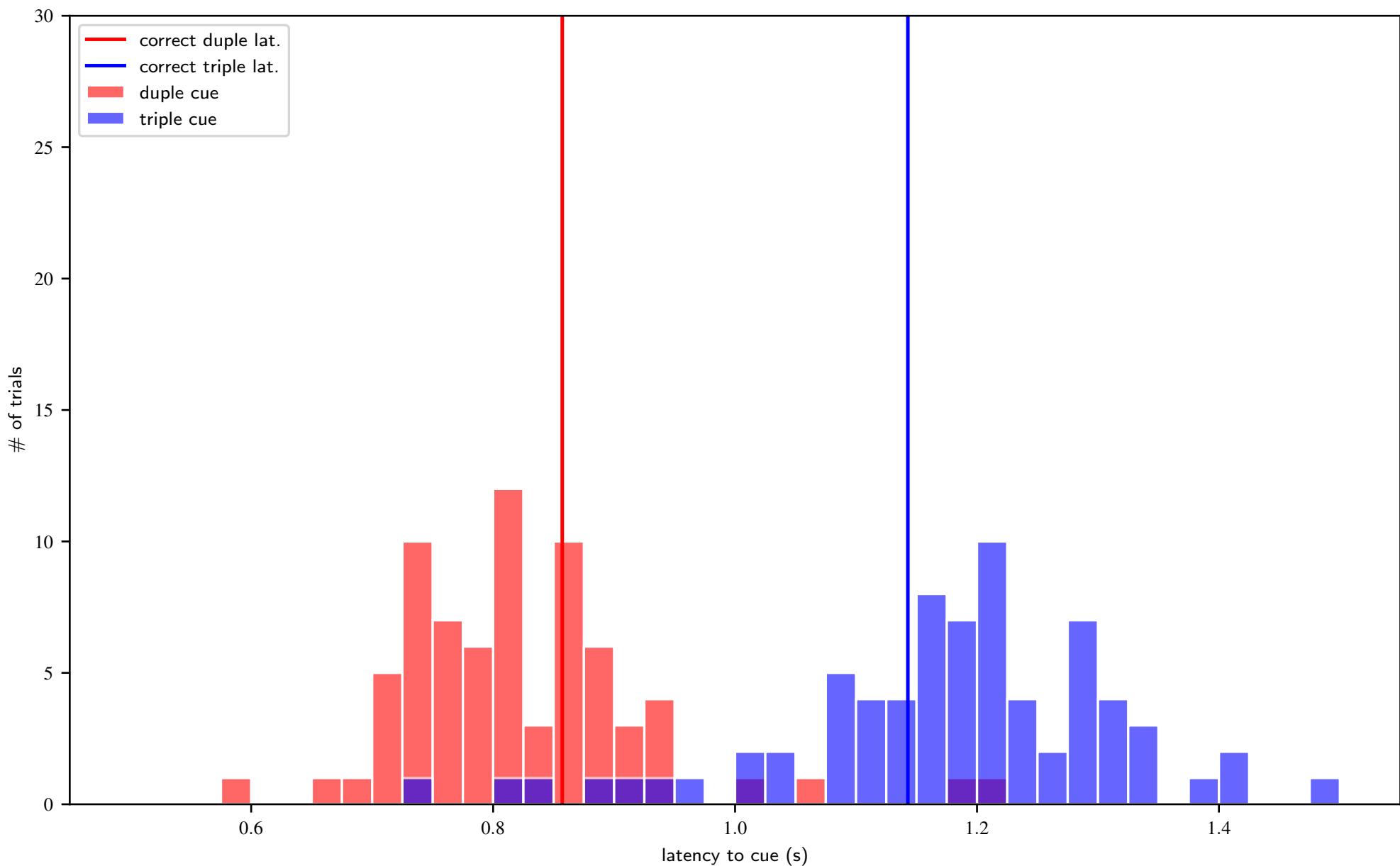
# S19 – ERP all channels



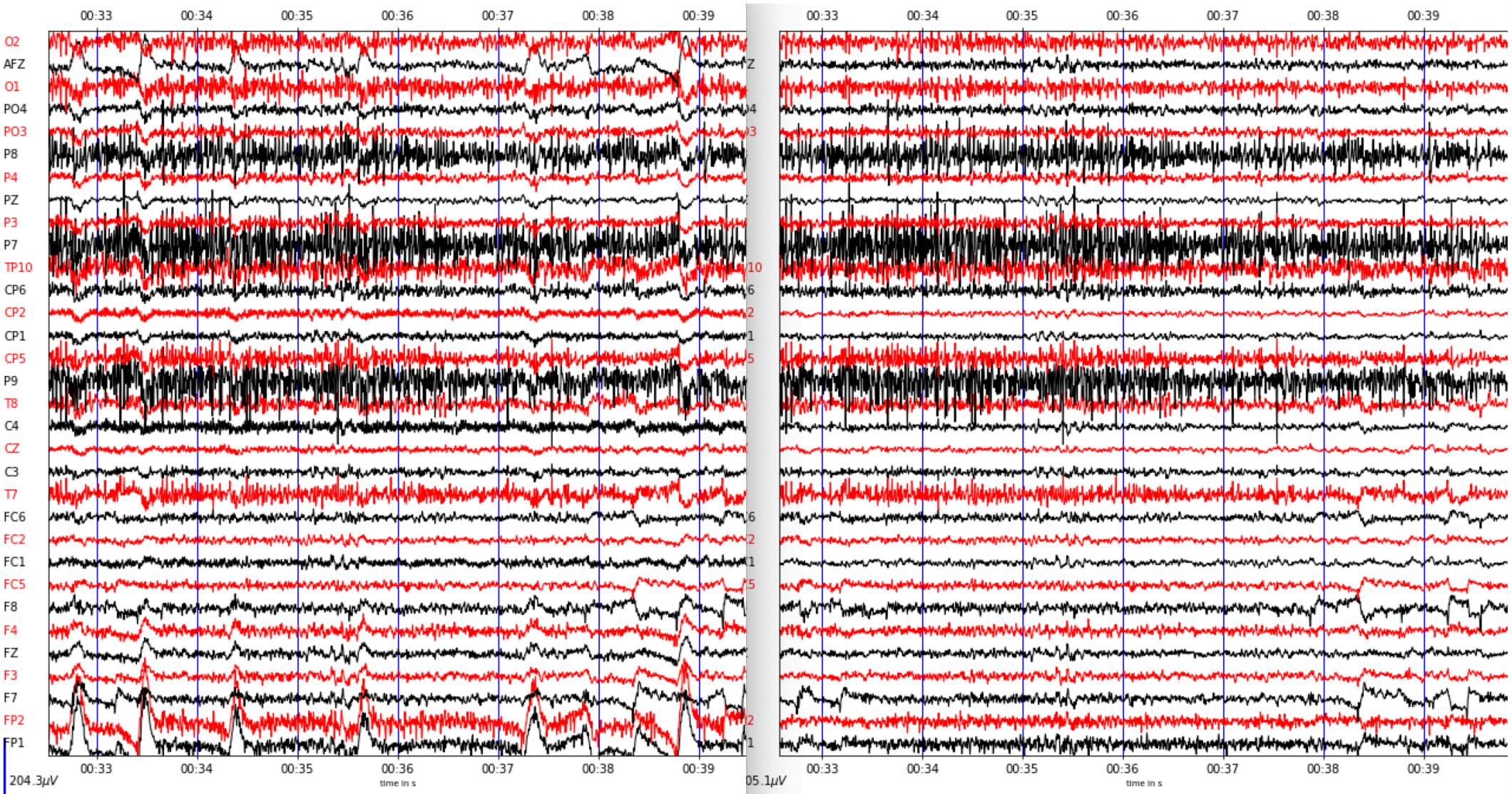
# S19 – ERP CCA



# S20 – Performance



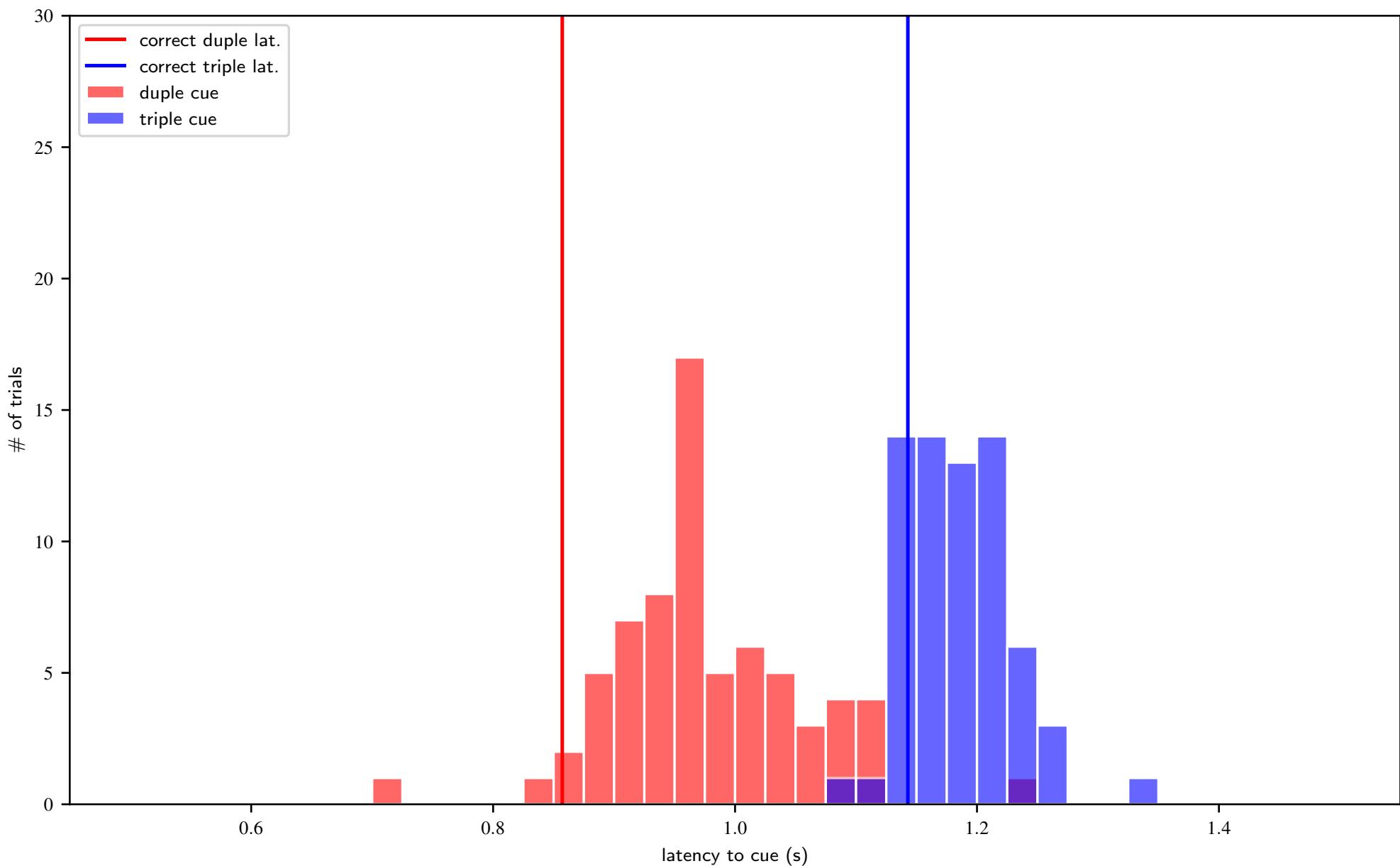
# S20 — Data Cleaning



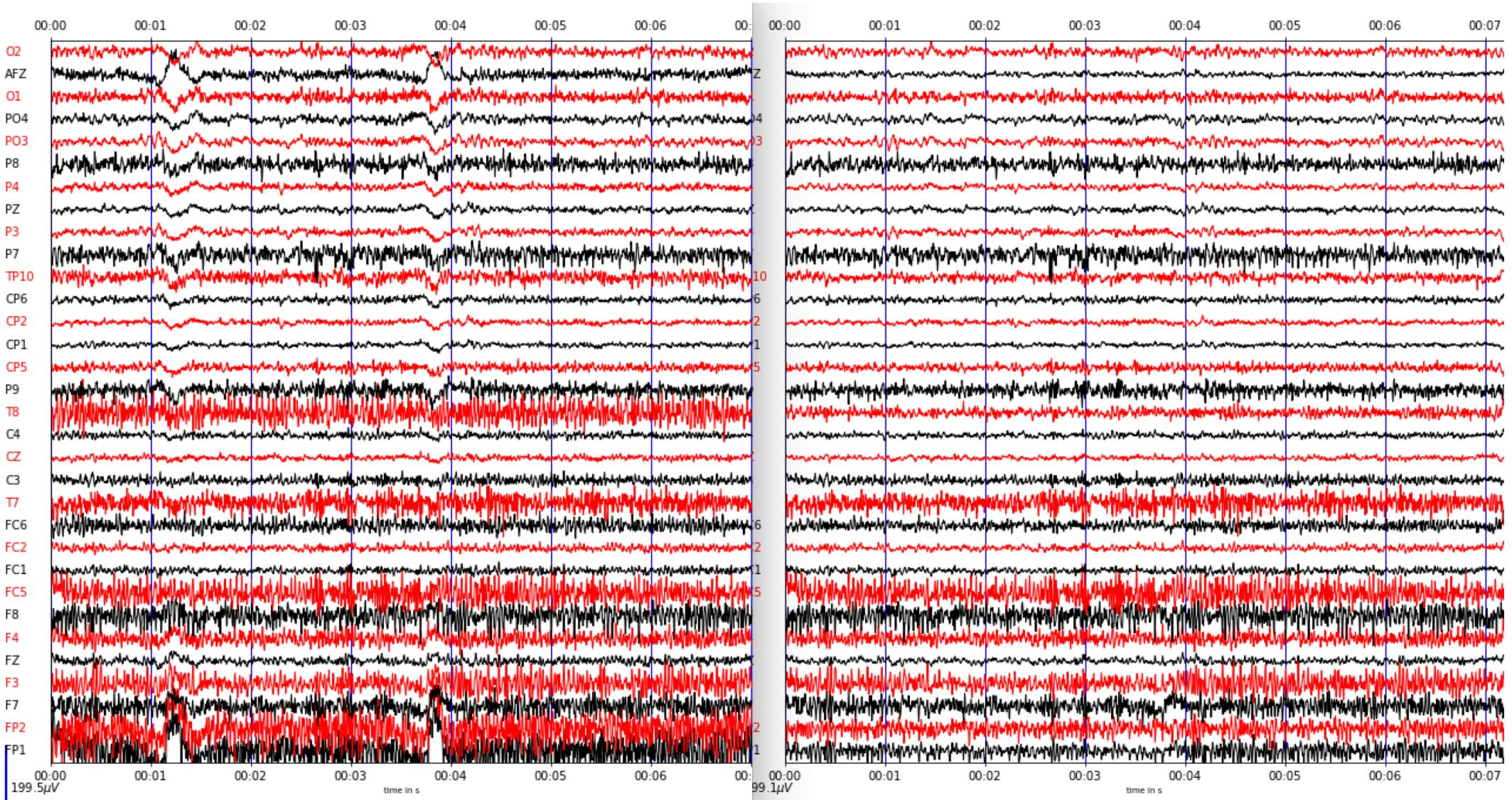
S20 – ERP all channels

# **S20 – ERP CCA**

# S21 — Performance



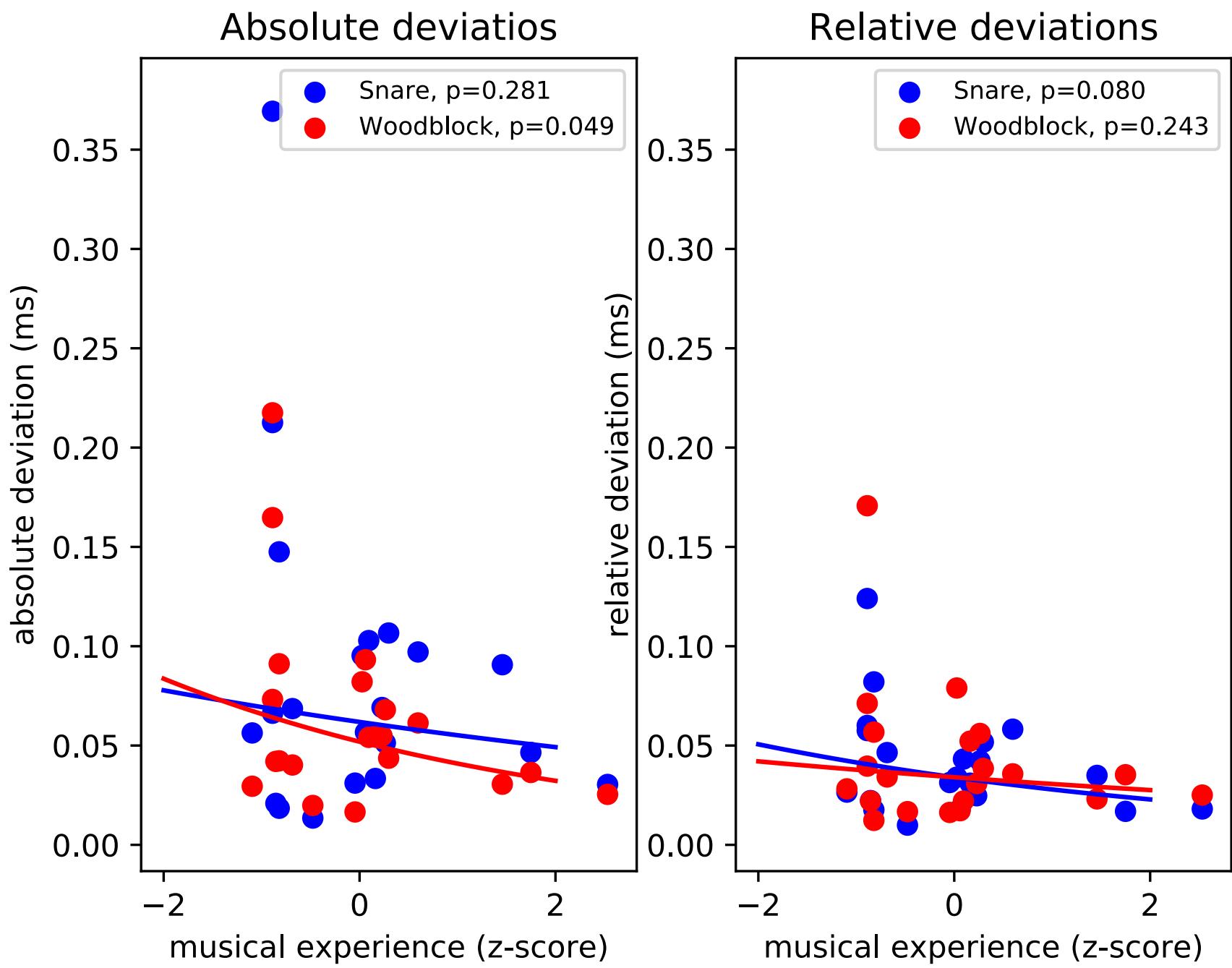
# S21 — Data Cleaning



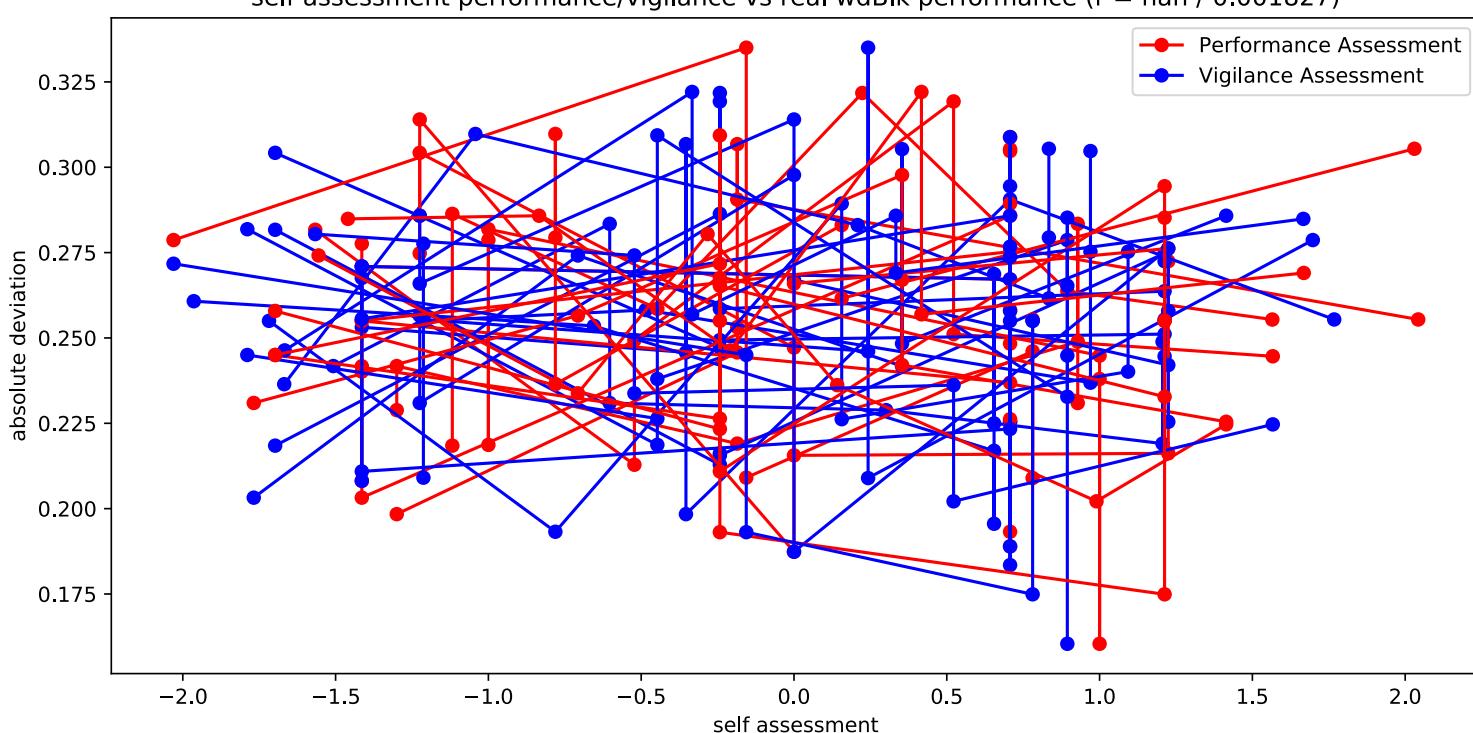
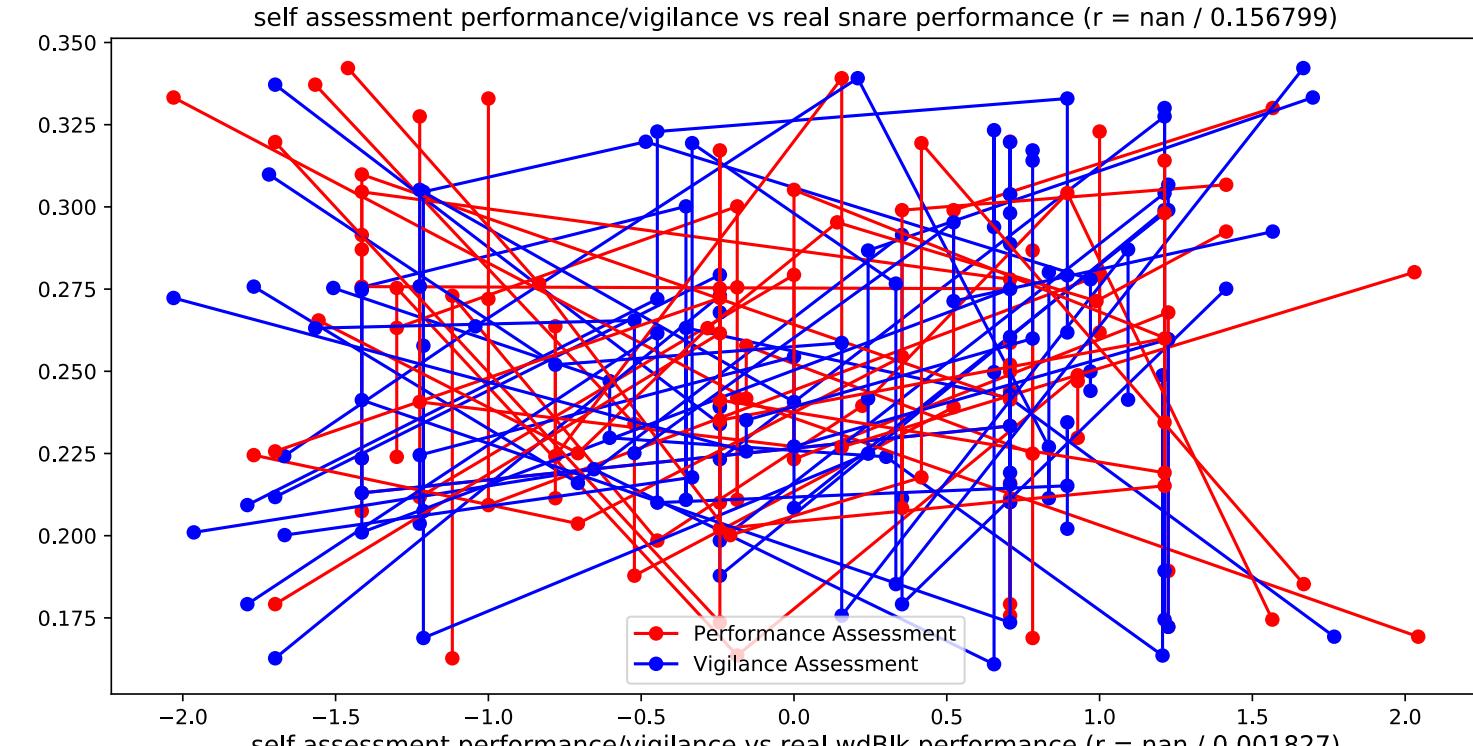
# S21 – ERP all channels

# **S21 – ERP CCA**

# All 21 Subjects – Performance vs. Musical Experience

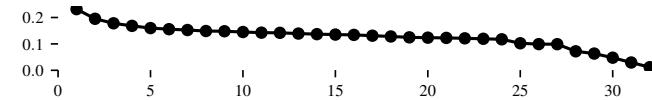


# All 10 Subjects – Self assessment



# All 21 Subjects – SSD Patterns

not normalized



normalized

