‘Central to successful control is the ability to suppress actions that are no longer relevant or required. ’

Subject 106

NF Task: Users look at the car and imagine driving it forward to train alpha inhibition, aiming to enhance information suppression to reduce falling risk in the physical world.

Event 7

Epoching information

- Event '7' (alpha power drop, car moves backward) is set as time = 0 ms, with epochs from [-300 1000] ms.
- Event '6' (ERSP alpha power increase, car moves forward) is plotted as a black line to show its latency relative to '7' (fig 1).
- Corrects the baseline by subtracting the -290 to 0 ms mean

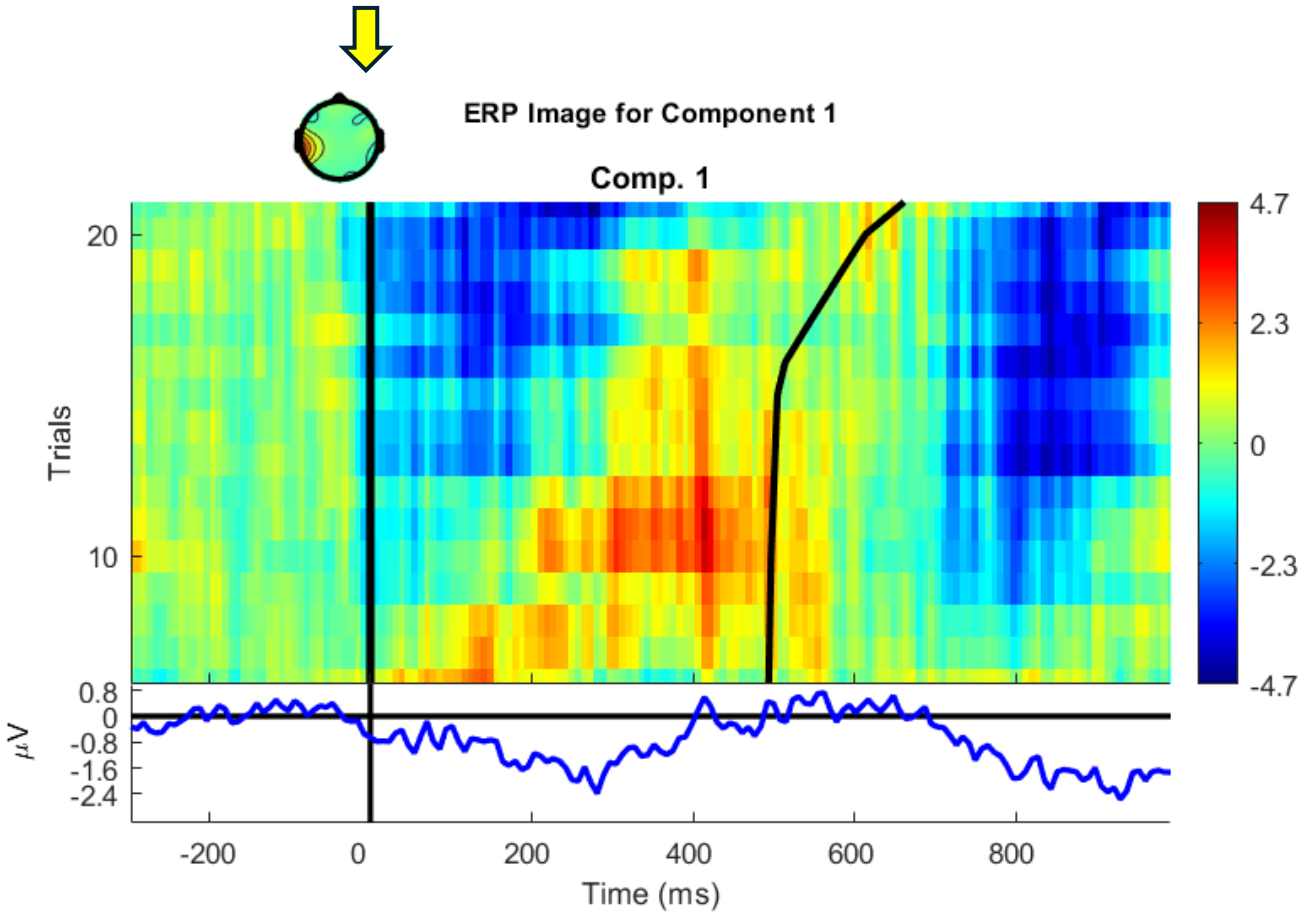
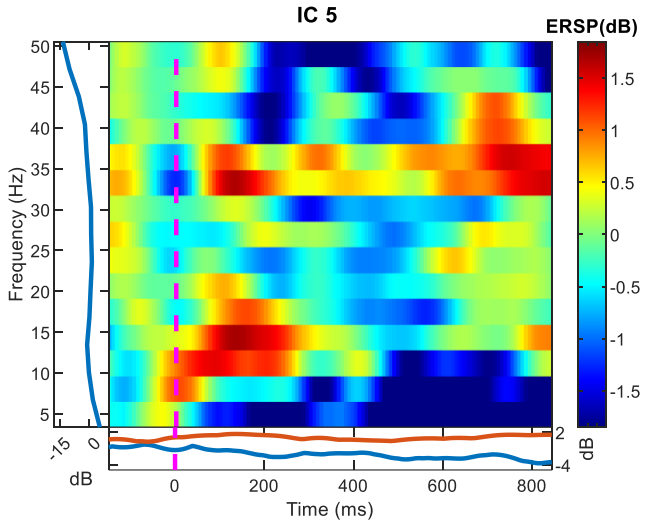
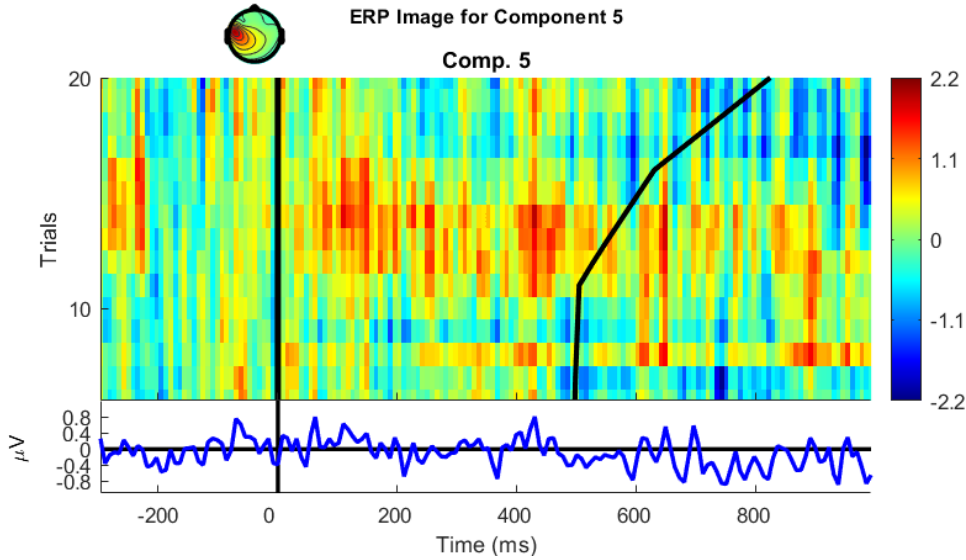


Figure 1. ERP of the 1st component for subject 104 training session 1. Event '7' is the stimulus onset when time = 0ms. Event '6' marks the car's forward movement with a black line, sorted by latency

106_1

Frontal FC5		
Time(ms)	Alpha	
[-50, 100]	sync	
[350, 500]	sync	

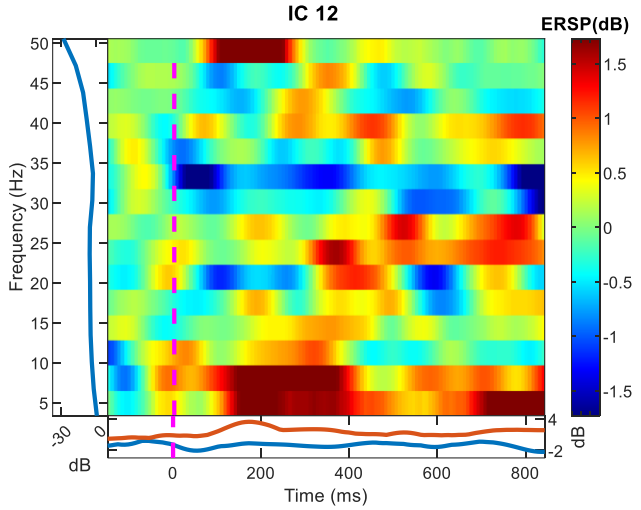


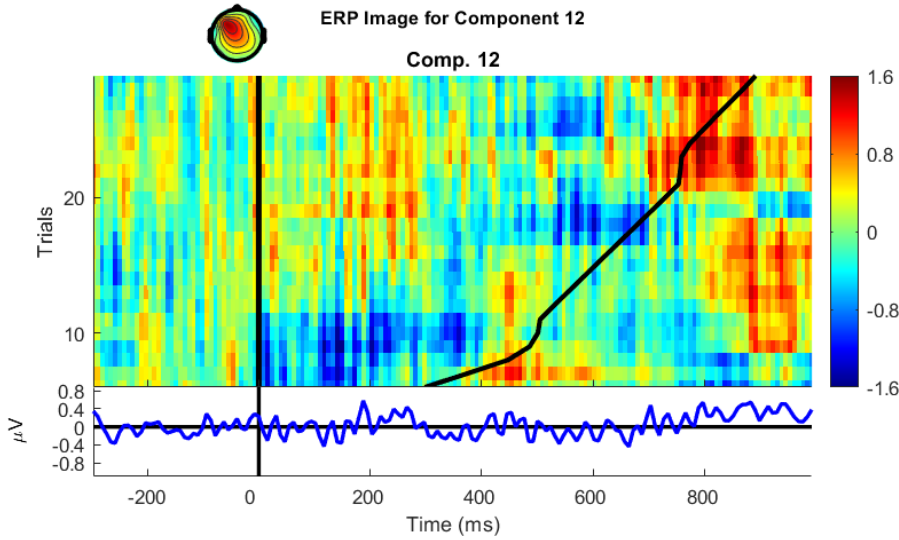


106_3

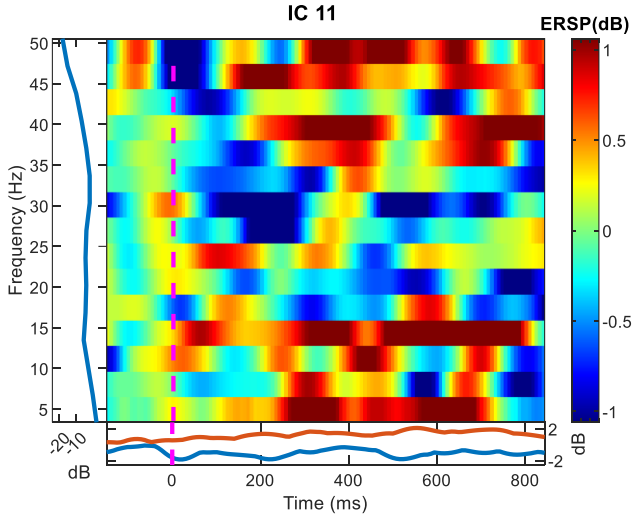
Frontal F3		
Time(ms)	Alpha	
[-50, 100]	desync	
[400, 600]	sync	

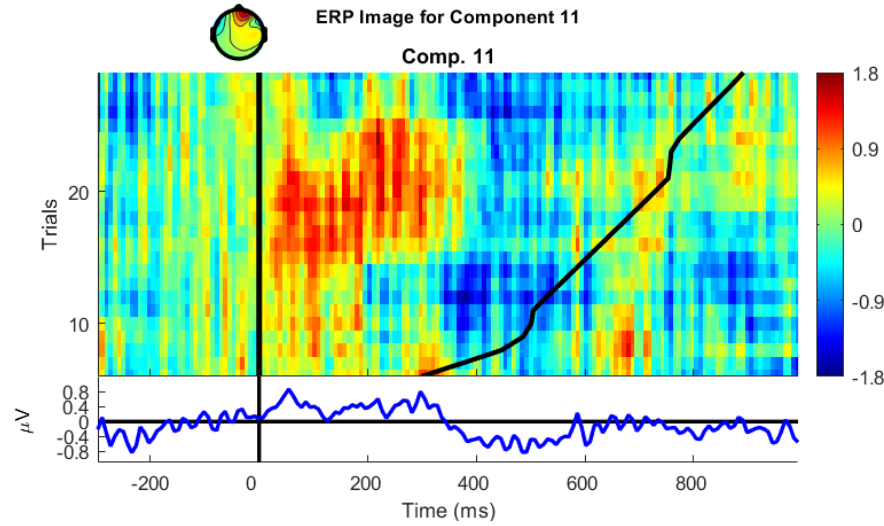
!!





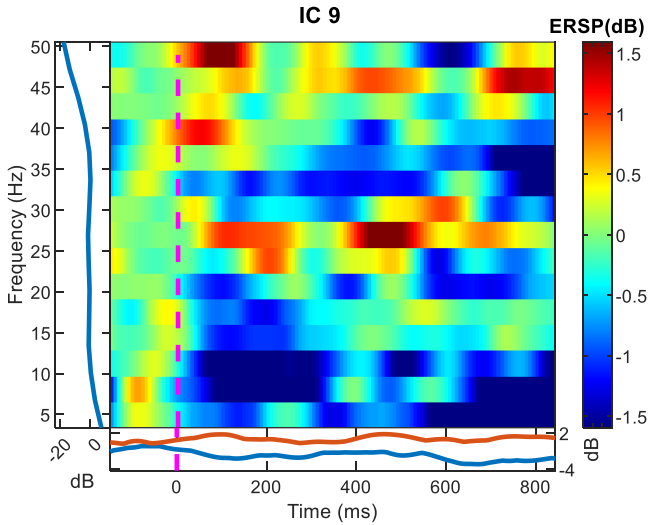
Frontal FC5		
Time(ms)	Alpha	
[-50, 100]	desync	
[200, 400]	sync	

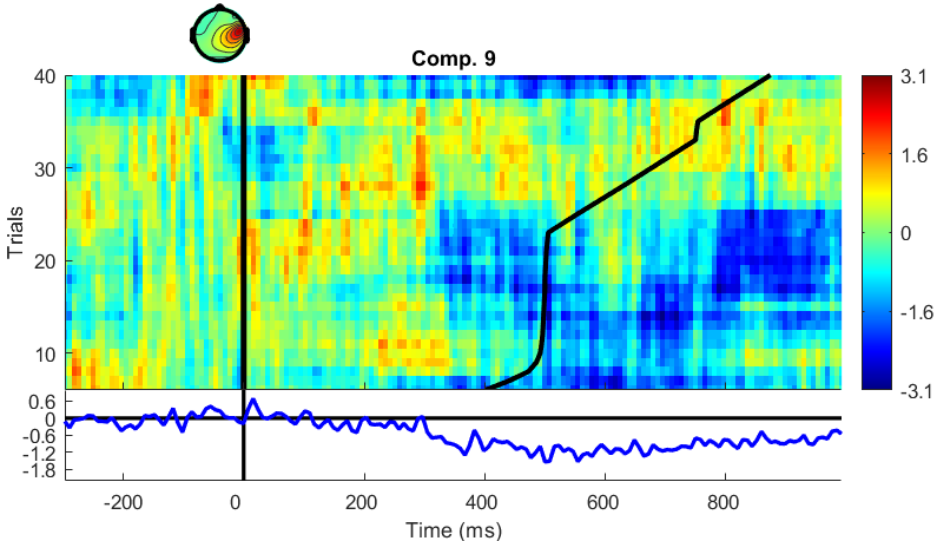




106_4

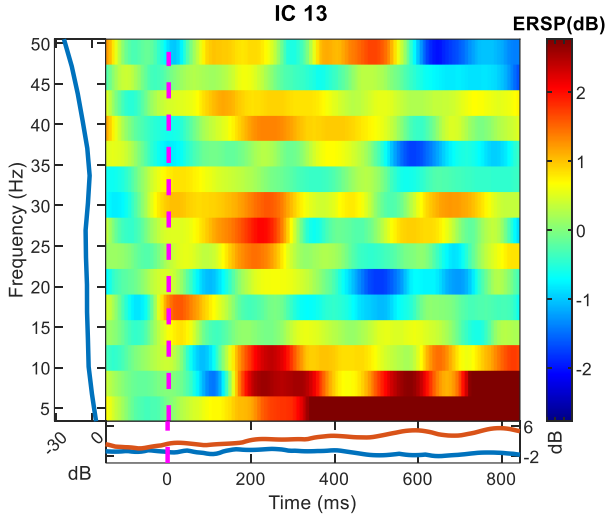
Frontal FC6		
Time(ms)	Alpha	
[-50, 100]	desync	
[200, 500]	sync	

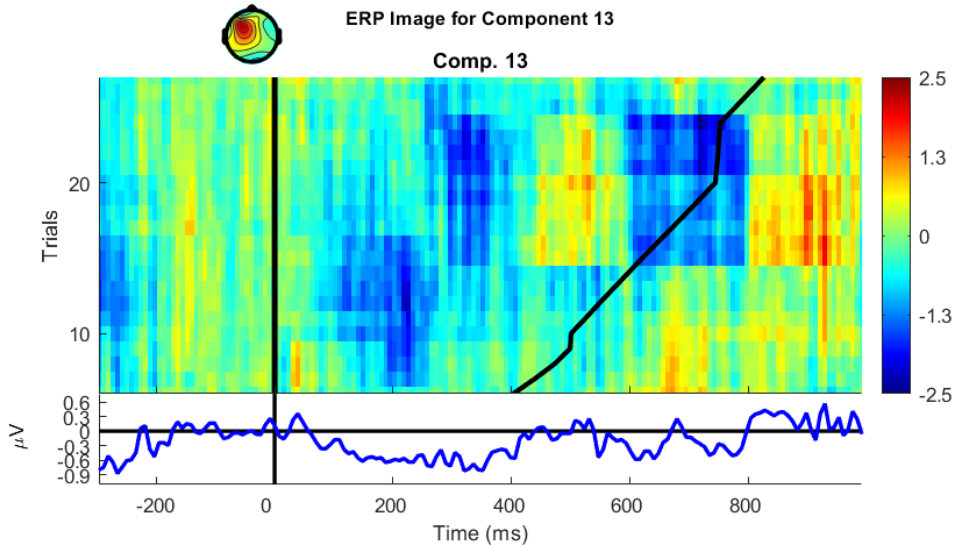




106_5

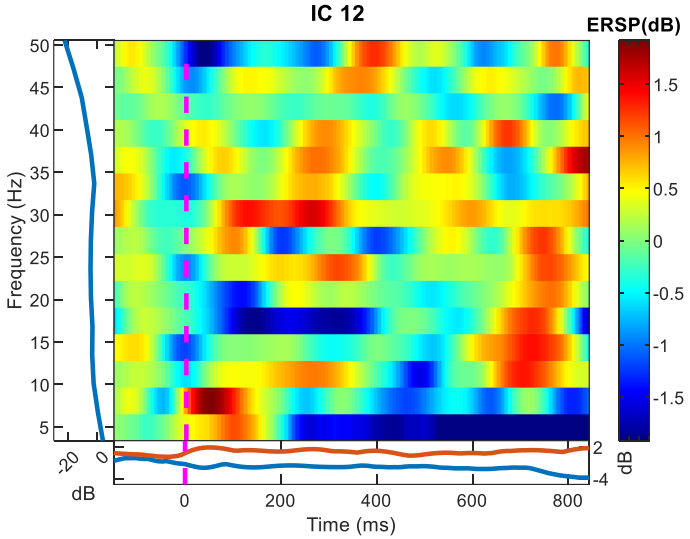
Frontal F3		
Time(ms)	Alpha	
[-50, 100]	desync	
[400, 600]	sync	

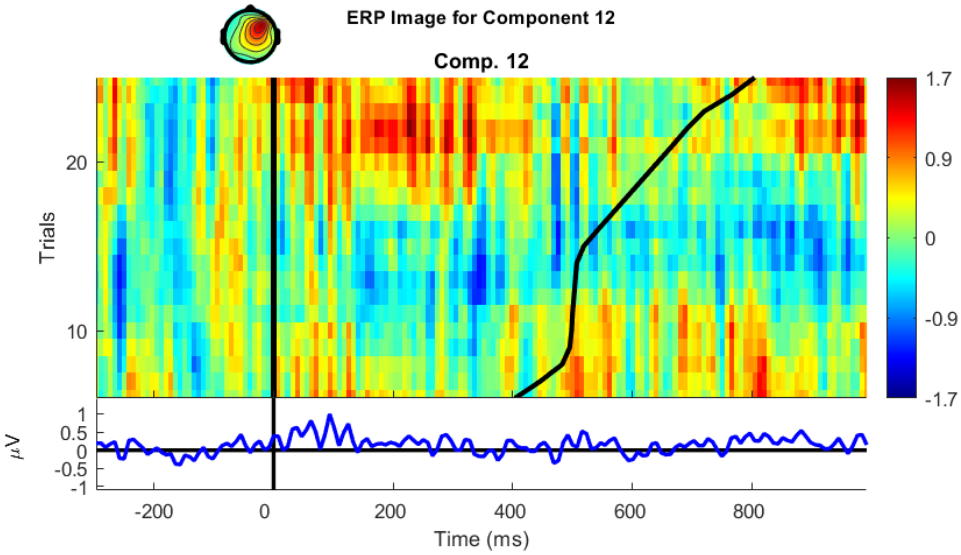




106_6

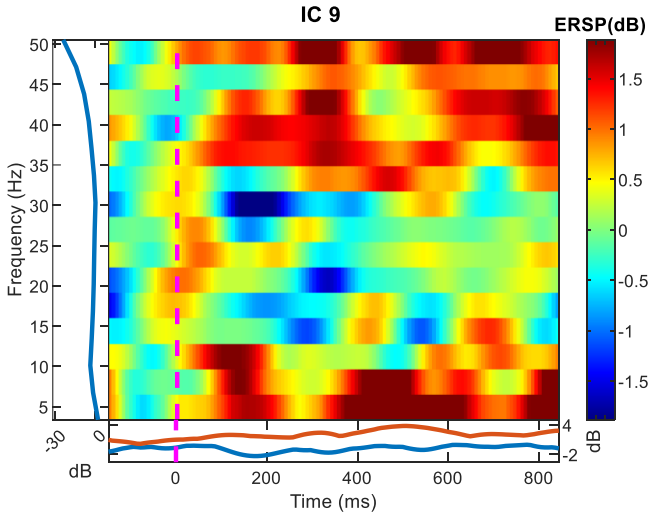
Frontal F4		
Time(ms)	Alpha	
[-50, 100]	desync	
[400, 600]	sync	

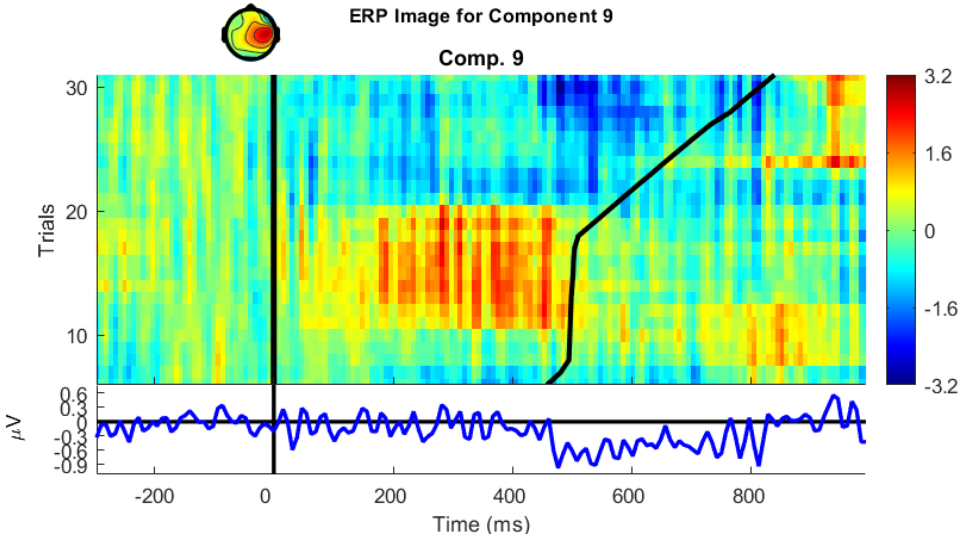




106_7

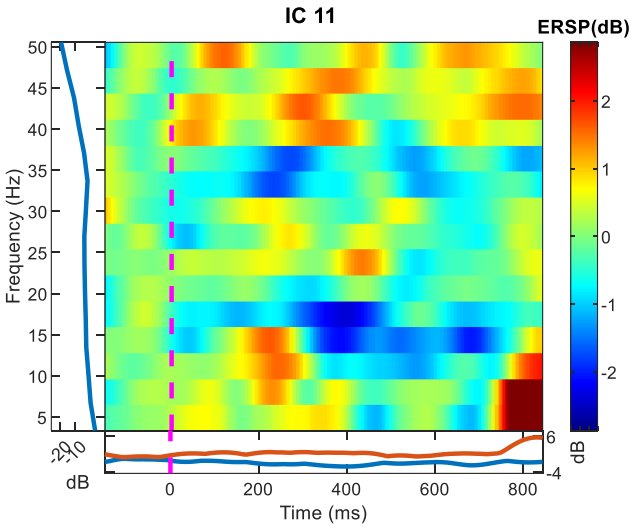
Frontal FC6		
Time(ms)	Alpha	
[-50, 100]	desync	
[400, 600]	sync	

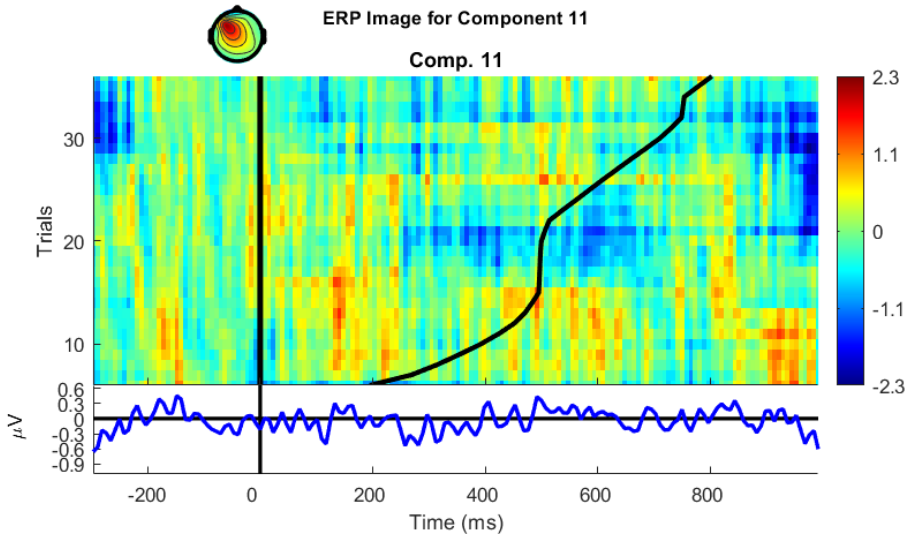




106_8

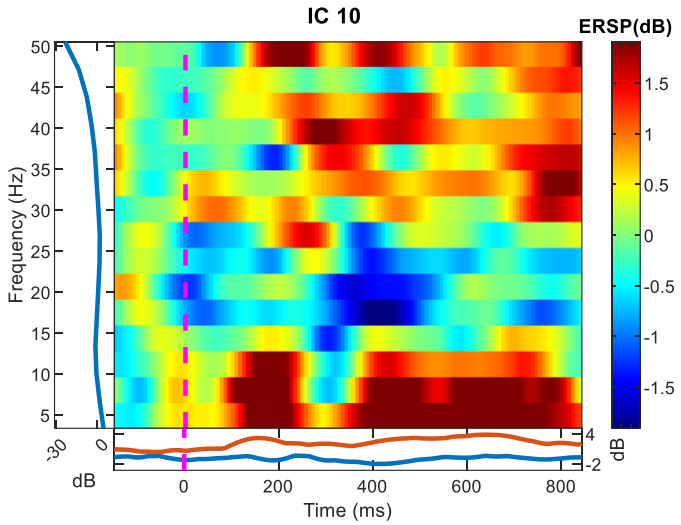
Frontal F3		
Time(ms)	Alpha	
[-50, 100]	desync	
[400, 600]	sync	

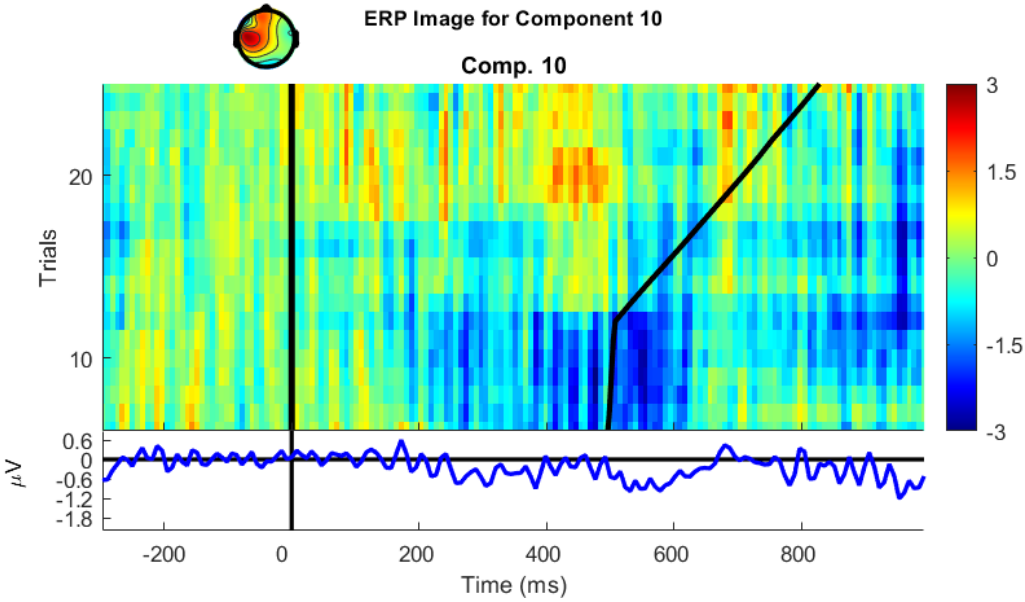




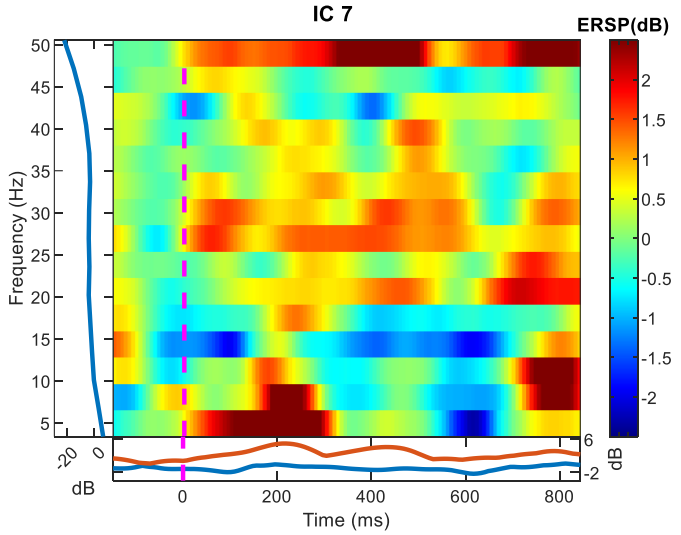
106_9

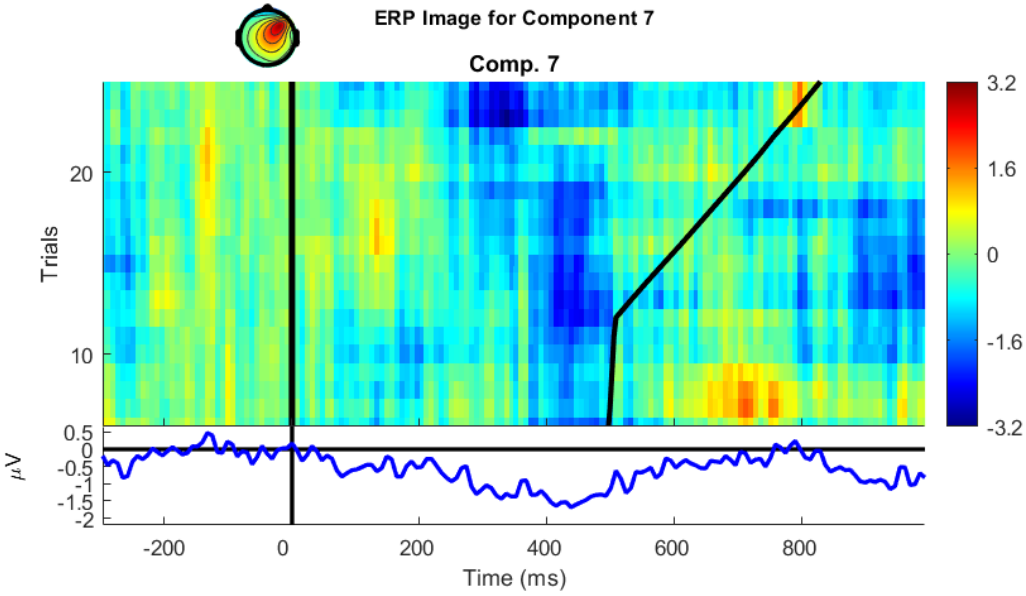
Frontal FC5		
Time(ms)	Alpha	
[-50, 100]	desync	
[400, 600]	sync	





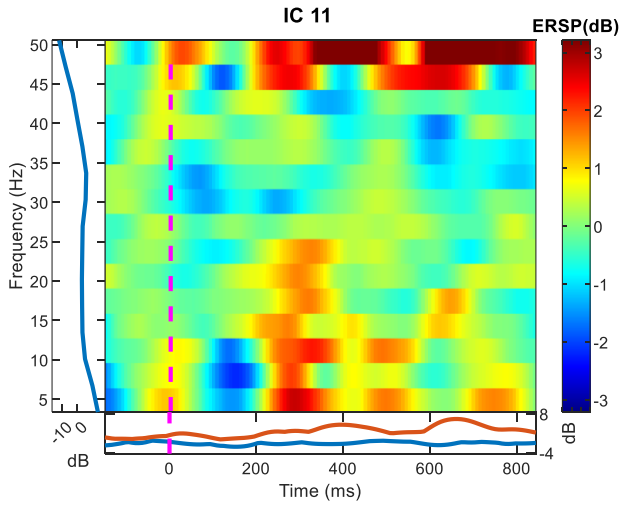
Frontal F4		
Time(ms)	Alpha	
[-50, 100]	desync	
[150, 300]	sync	

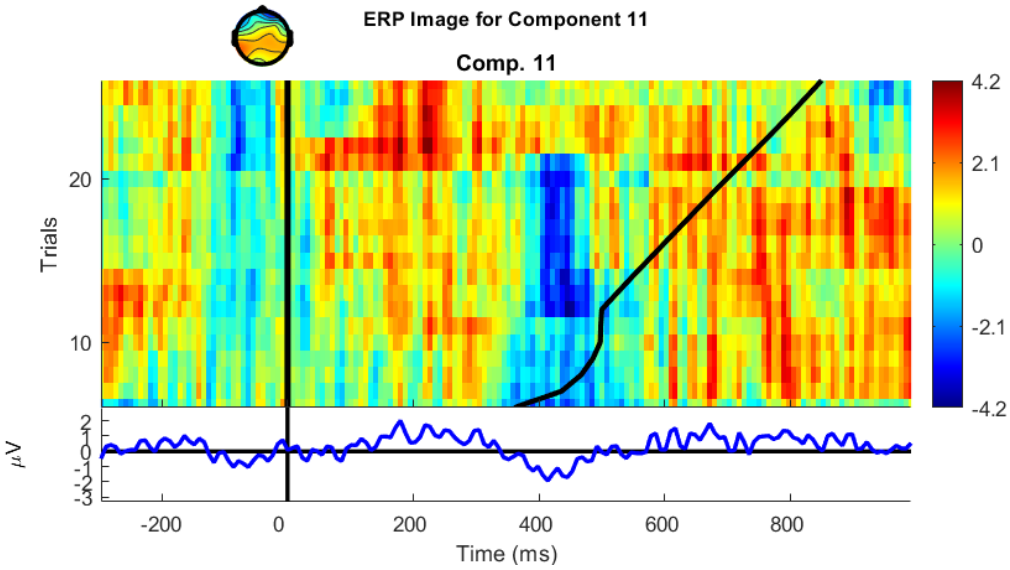




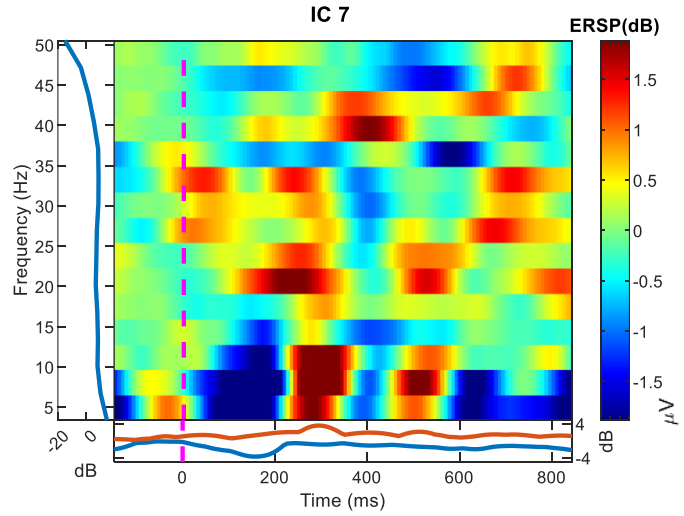
106_10

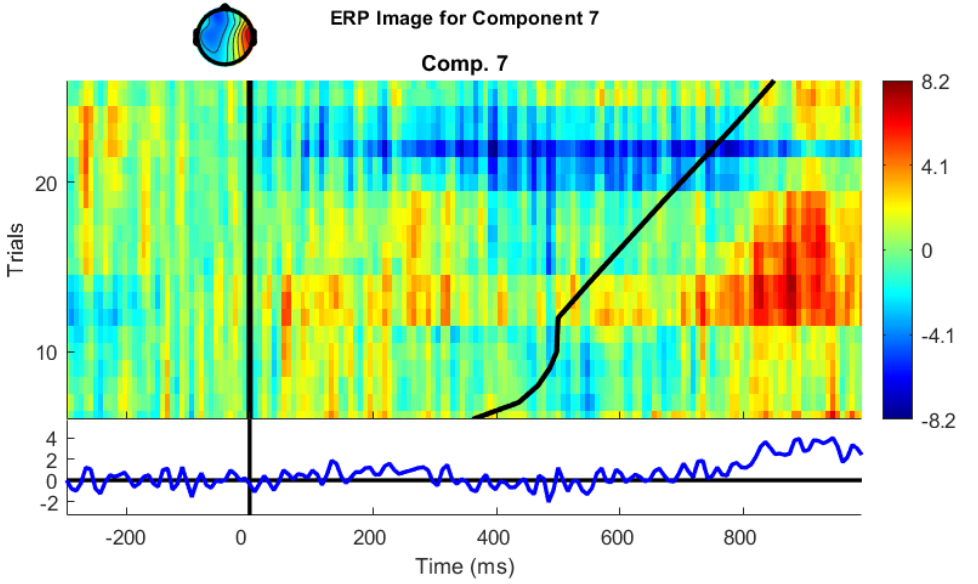
Frontal AF4		
Time(ms)	Alpha	
[-50, 100]	desync	
[200, 400]	sync	





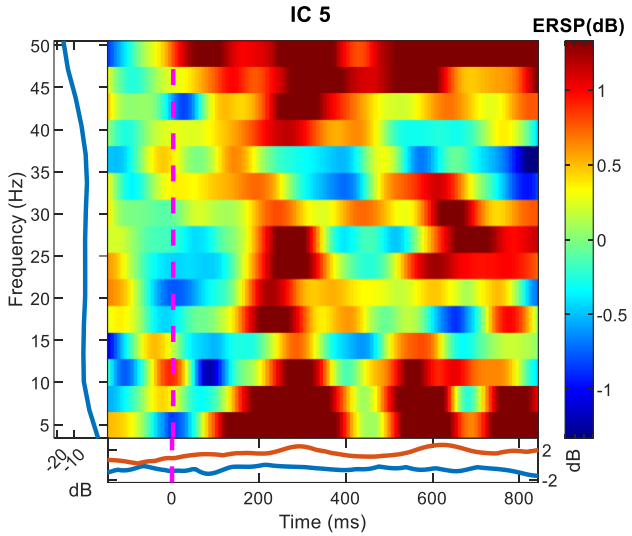
Frontal FC6		
Time(ms)	Alpha	
[-50, 100]	desync	
[200, 400]	sync	

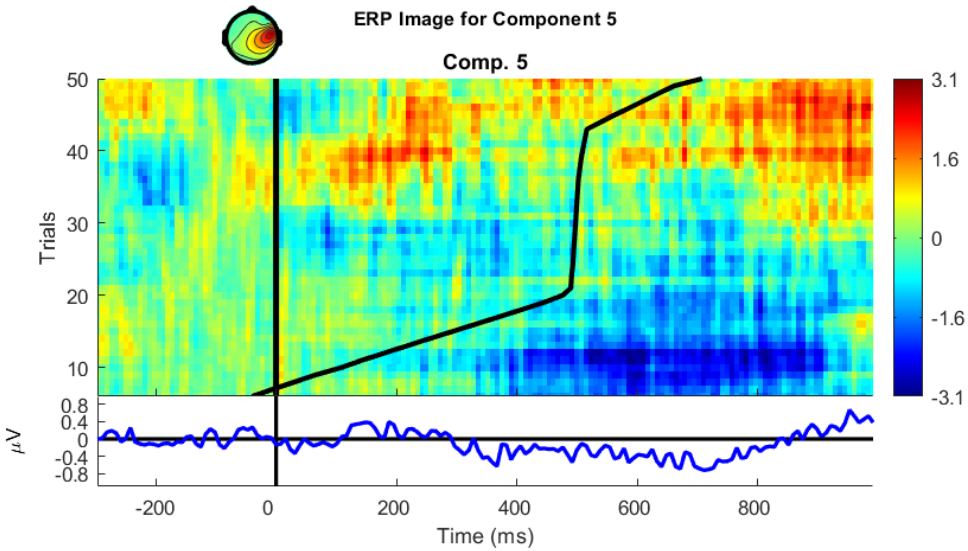




106_13

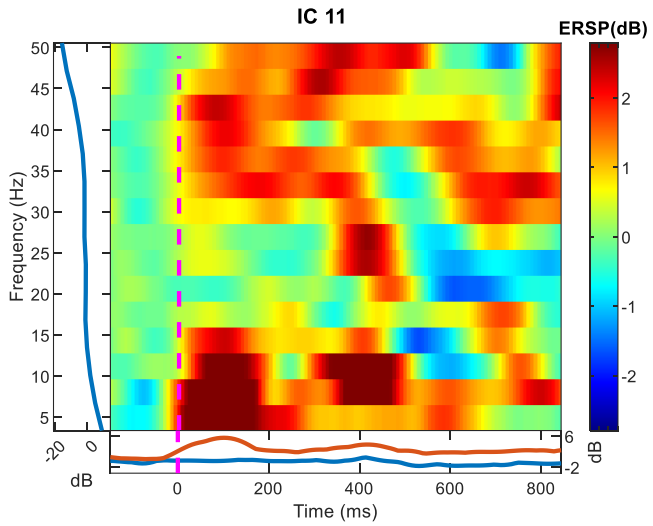
Frontal FC5		
Time(ms)	Alpha	
[-50, 100]	desync	
[200, 400]	sync	

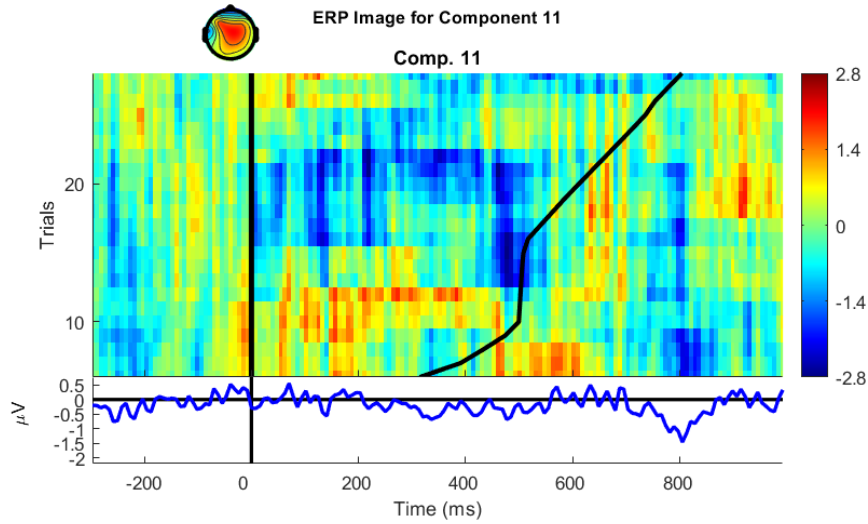




106_14

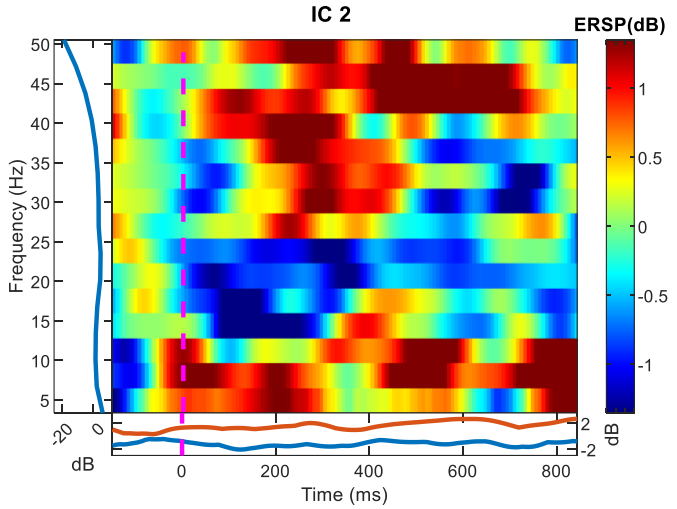
Frontal F3		
Time(ms)	Alpha	
[-50, 100]	sync	
[350, 550]	sync	

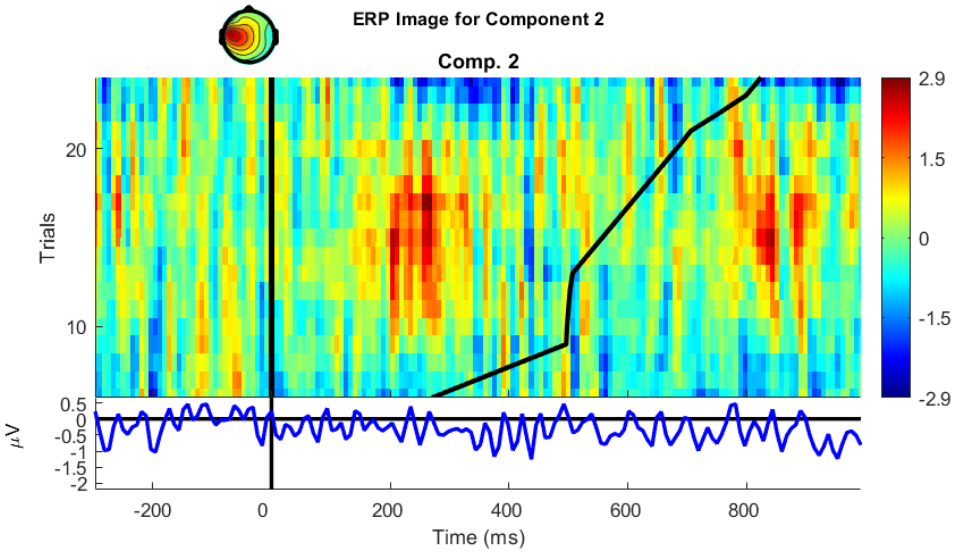




106_15

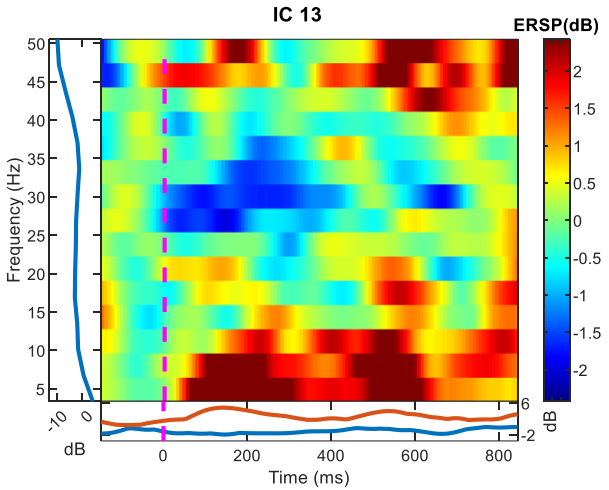
Frontal FC5		
Time(ms)	Alpha	
[-50, 50]	sync	
[200, 550]	sync	

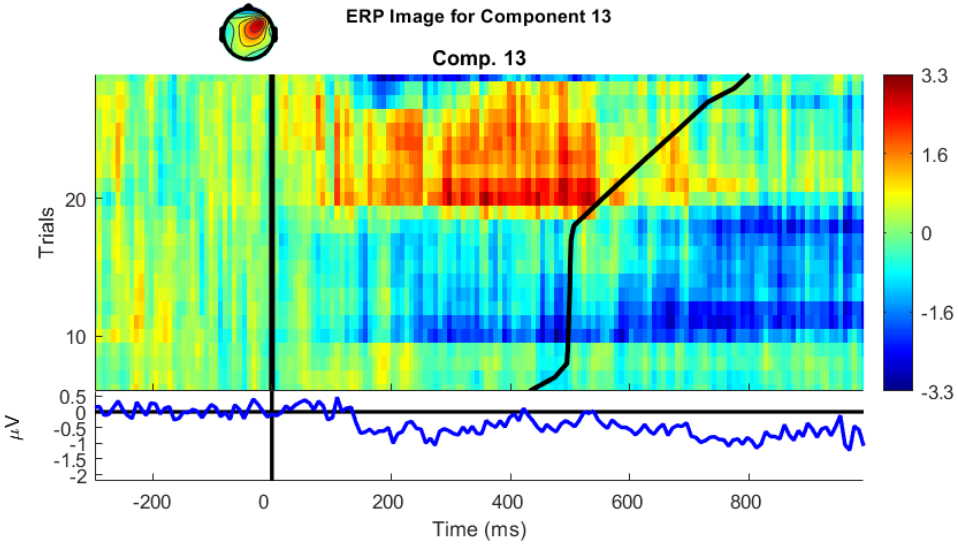




106_16

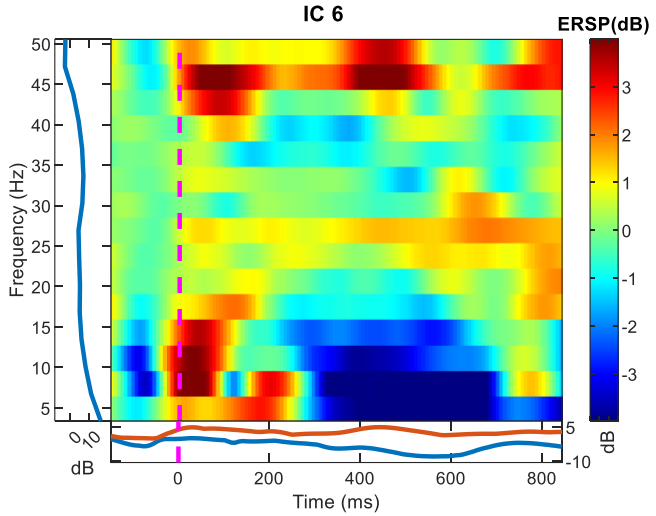
Frontal F4		
Time(ms)	Alpha	
[-50, 100]	desync	
[400, 600]	sync	

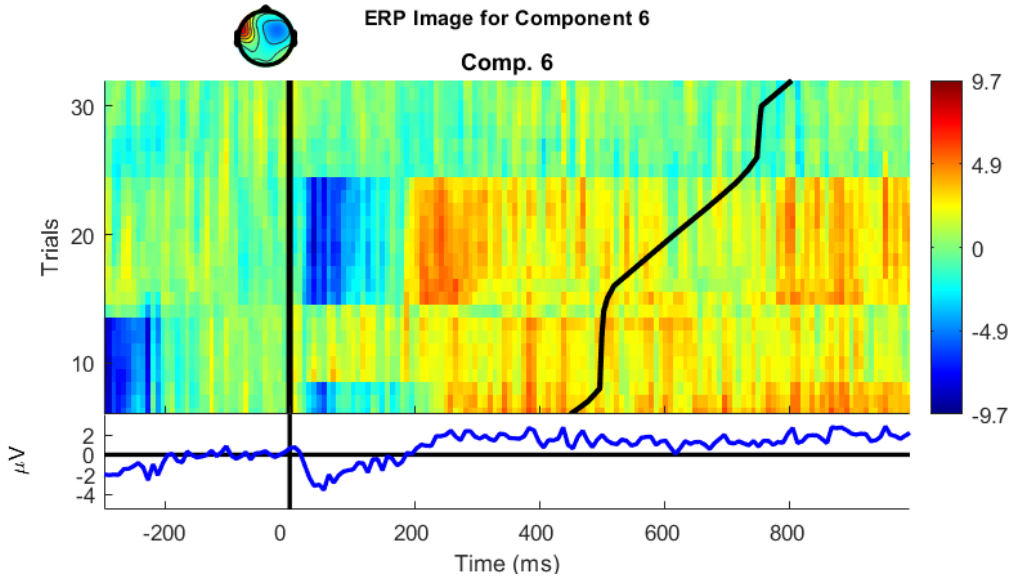




106_17

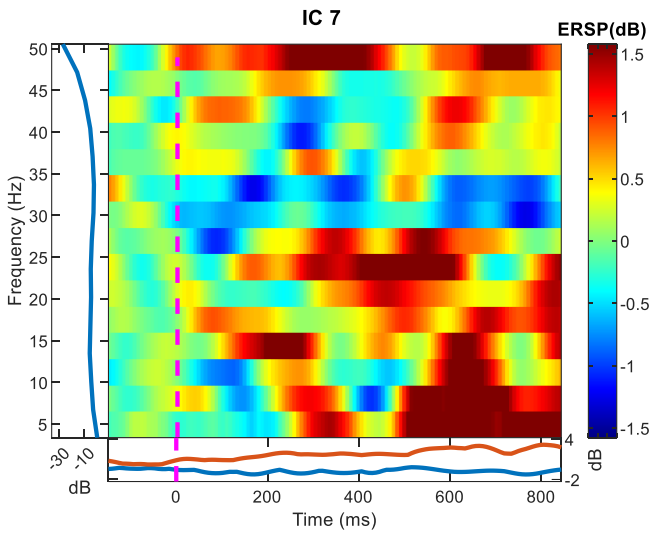
Frontal F7		
Time(ms)	Alpha	
[-50, 150]	sync	
[300, 600]	desync	

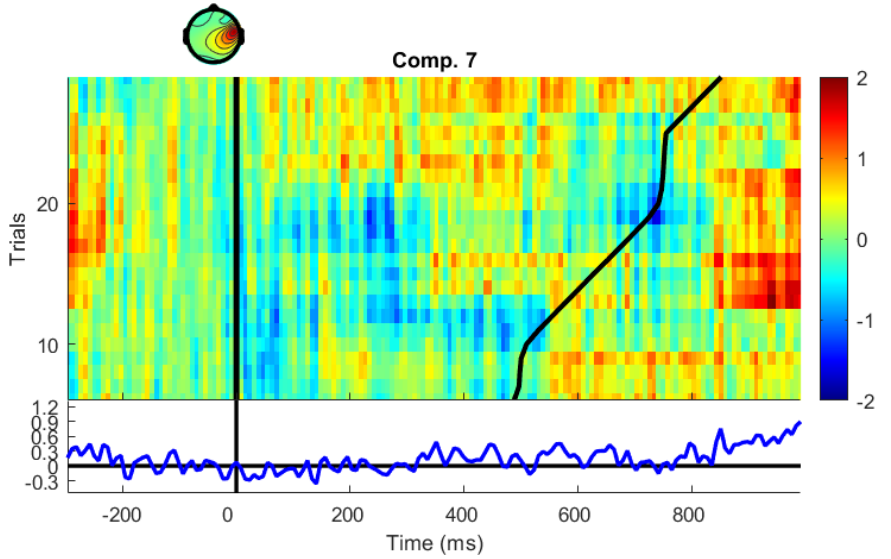




106_18

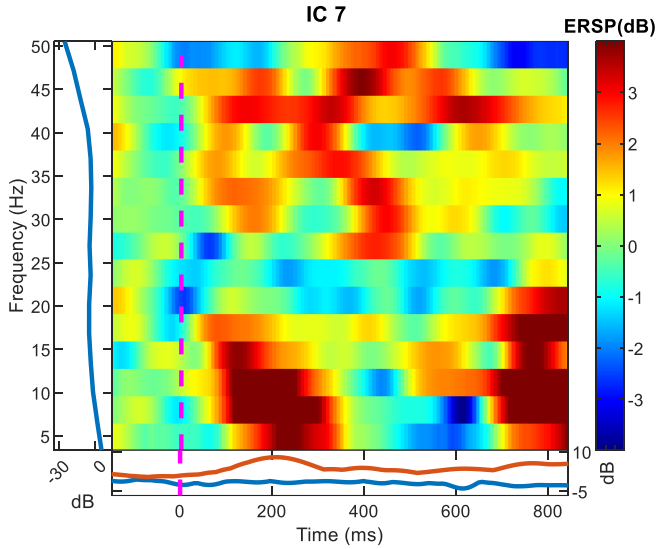
Frontal FC6		
Time(ms)	Alpha	
[-50, 100]	desync	
[200, 400]	sync	

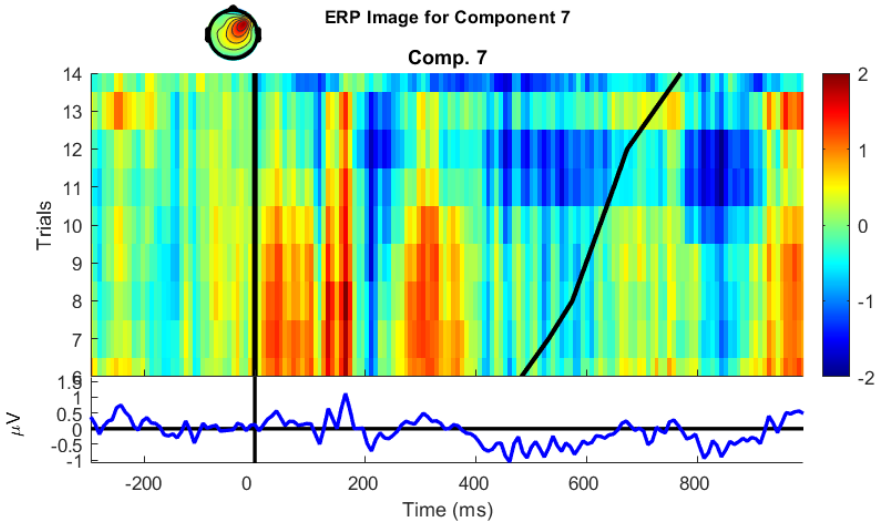




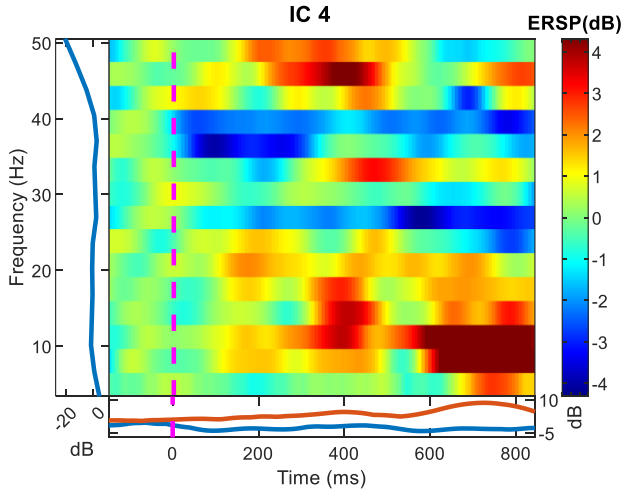
106_19

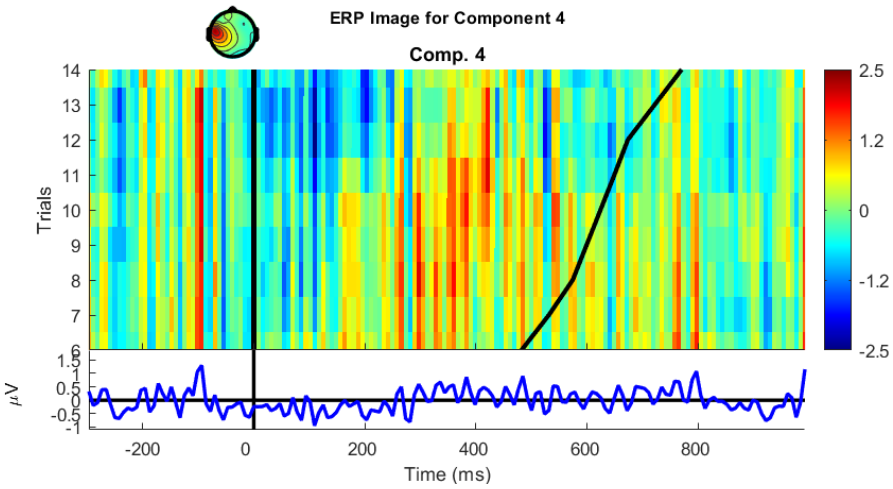
Frontal F4		
Time(ms)	Alpha	
[-50, 50]	desync	
[150, 380]	sync	





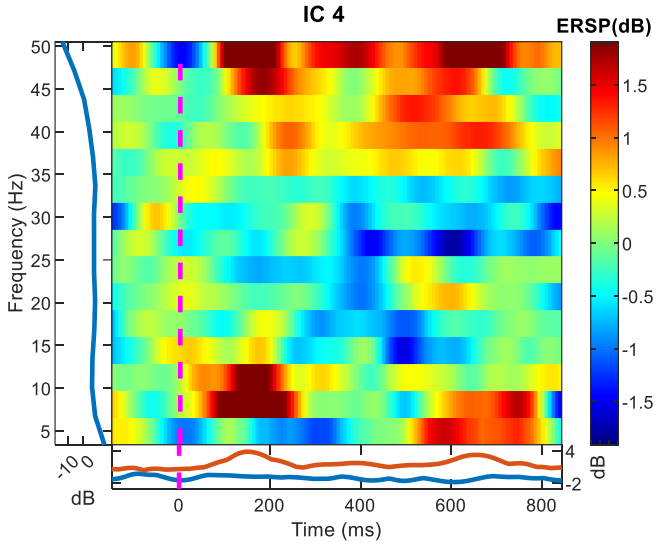
Frontal FC5		
Time(ms)	Alpha	
[-50, 100]	desync	
[350, 450]	sync	

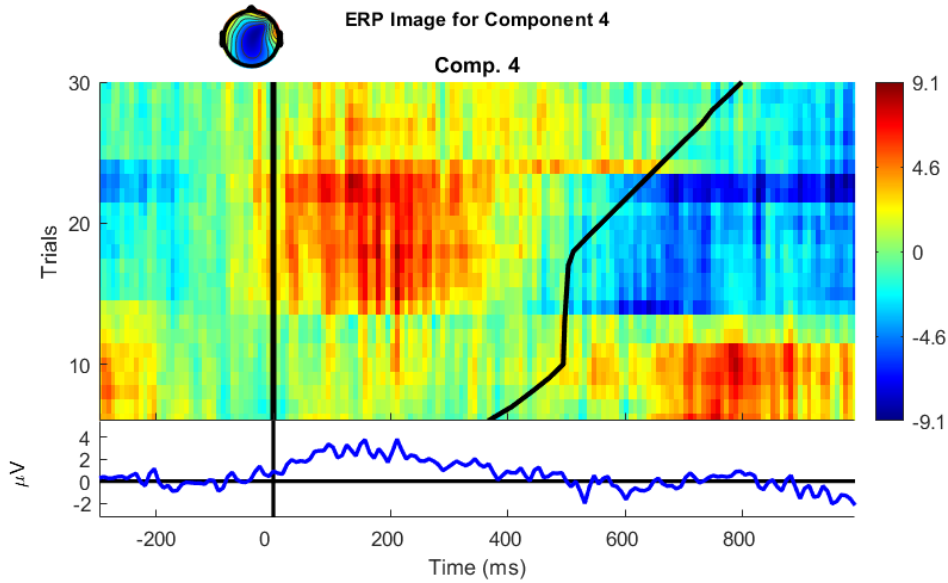




106_21

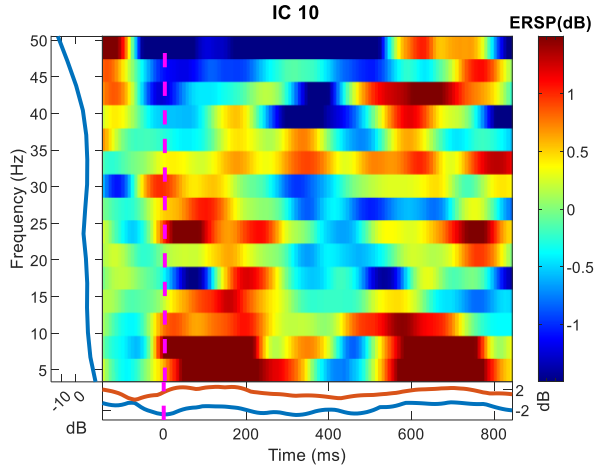
Frontal F4		
Time(ms)	Alpha	
[-50, 50]	desync	
[150, 300]	sync	

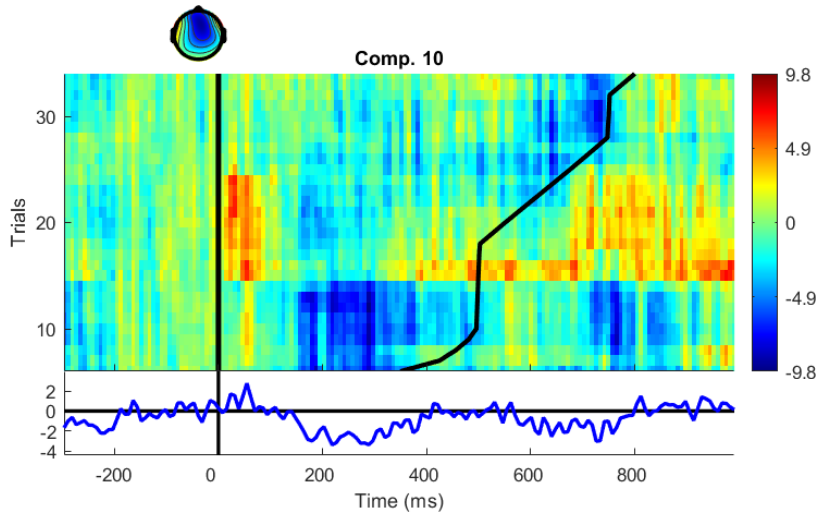




106_22

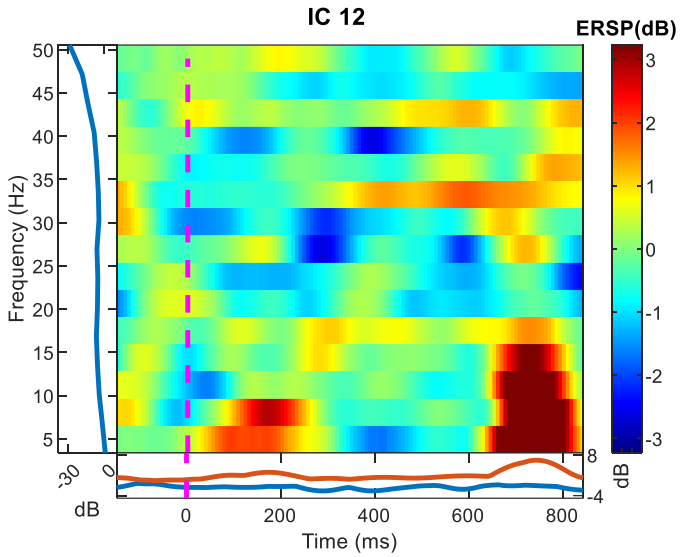
Frontal AF3		
Time(ms)	Alpha	
[-50, 0]	desync	
[50, 200]	sync	

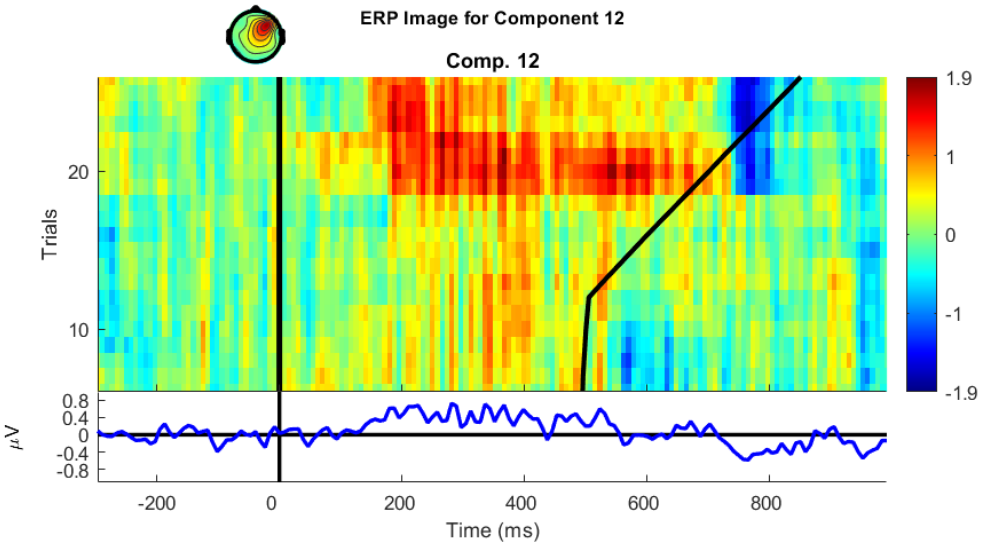




106_23

Frontal F4		
Time(ms)	Alpha	
[-50, 50]	desync	
[150, 300]	sync	





===== All Regions Summary =====
Region: Left-Frontal
Components processed: 10
p-value (Early vs Middle): 2.4563e-08 (increase)
p-value (Middle vs Later): 1.3627036e-05 (decrease)
p-value (Early vs Later): 0.68685075 (increase)

Region: Right-Frontal
Components processed: 11
p-value (Early vs Middle): 0.024526 (decrease)
p-value (Middle vs Later): 0.00010290205 (decrease)
p-value (Early vs Later): 1.9014755e-08 (decrease)

Region: Left-Temporal
Components processed: 0
p-value (Early vs Middle): NA
p-value (Middle vs Later): NA
p-value (Early vs Later): NA

Region: Right-Temporal
Components processed: 0
p-value (Early vs Middle): NA
p-value (Middle vs Later): NA
p-value (Early vs Later): NA

Region: Left-Occipital
Components processed: 0
p-value (Early vs Middle): NA
p-value (Middle vs Later): NA
p-value (Early vs Later): NA

Region: Right-Occipital
Components processed: 0
p-value (Early vs Middle): NA
p-value (Middle vs Later): NA
p-value (Early vs Later): NA

Region: Left-Parietal
Components processed: 0
p-value (Early vs Middle): NA
p-value (Middle vs Later): NA
p-value (Early vs Later): NA

Region: Right-Parietal
Components processed: 0
p-value (Early vs Middle): NA
p-value (Middle vs Later): NA
p-value (Early vs Later): NA
