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

Subject 115

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.

We will look at alpha power progression

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

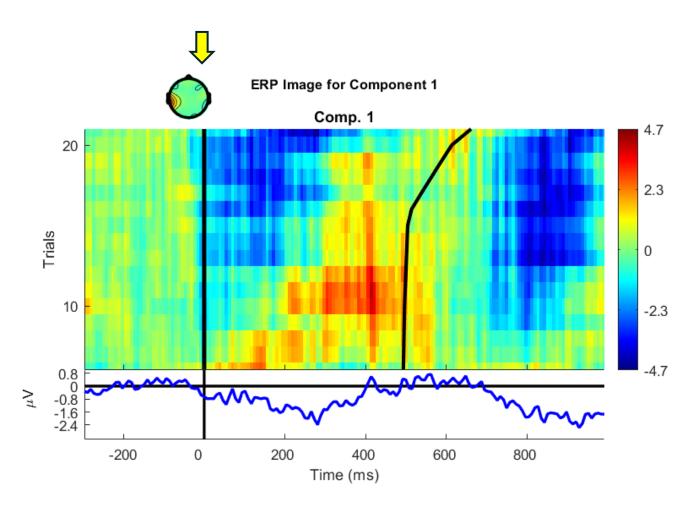
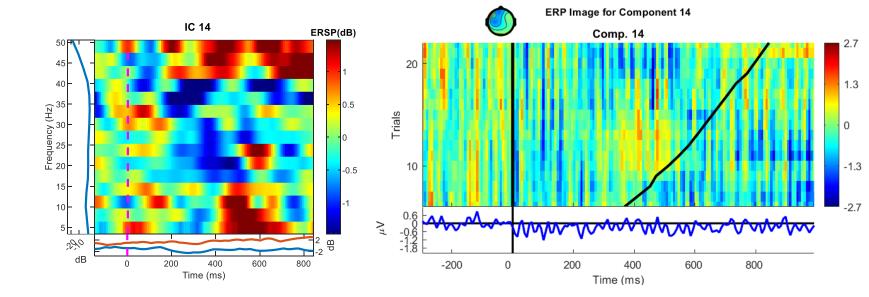
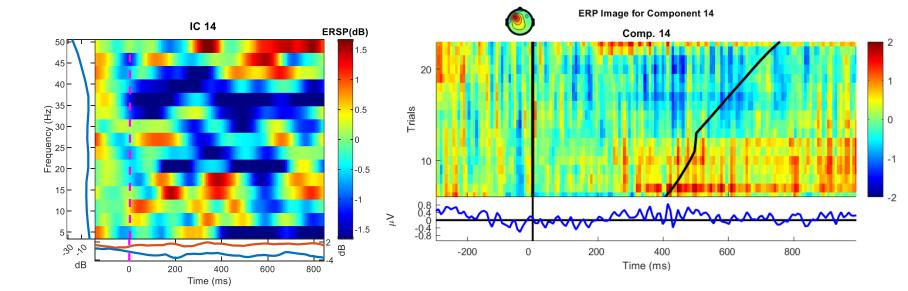


Figure 1. ERP of the 1st component for subject 104 training session 1. Event '7' is the stimulus onset when time = 0ms. Event '6' marks the car's forward movement with a black line, sorted by latency

Frontal F7		
Time(ms)	Alpha	
[0, 100]	desync	
[200, 400]	sync	

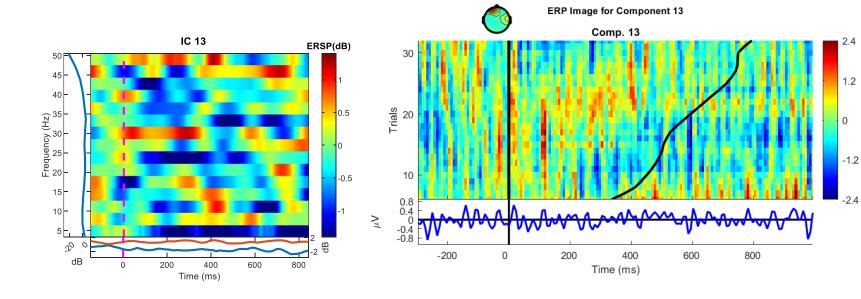


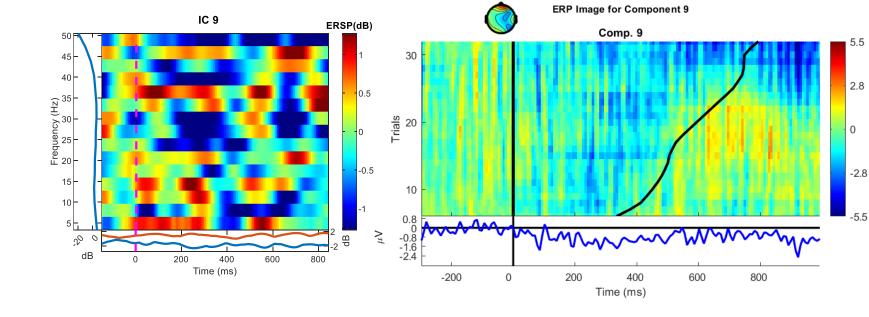
Frontal F3		
Time(ms)	Alpha	
[0, 50]	desync	
[200, 400]	sync	



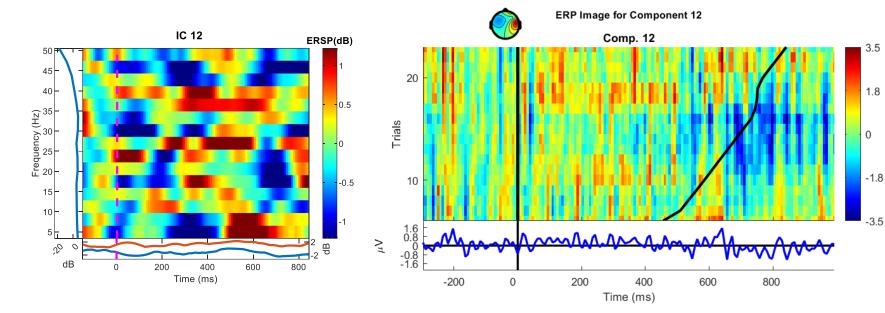
Frontal AF3		
Time(ms)	Alpha	
[0, 50]	desync	
[200, 400]	sync	

Frontal AF4		
Time(ms)	Alpha	
[0, 50]	desync	
[200, 400]	sync	

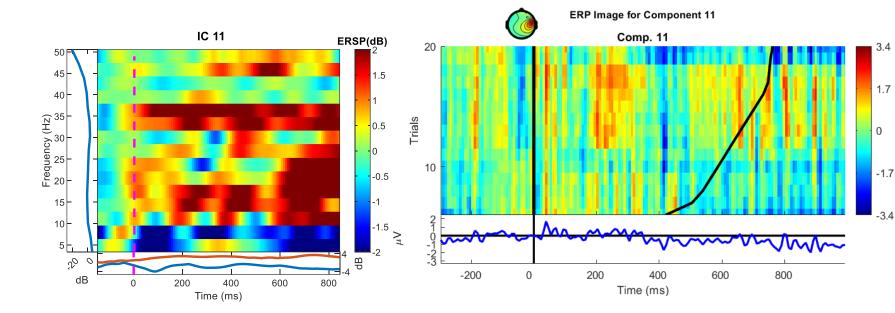




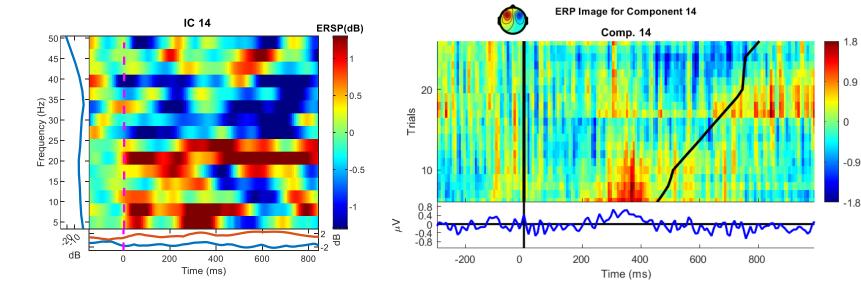
Frontal FC6		
Time(ms)	Alpha	
[0, 50]	desync	
[200, 400]	sync	



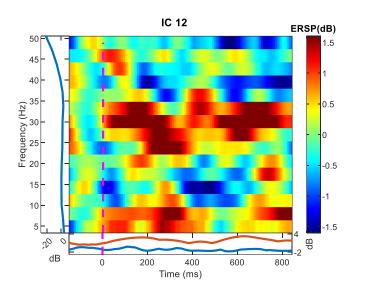
Frontal FC6		
Time(ms)	Alpha	
[0, 50]	desync	
[200, 400]	sync	

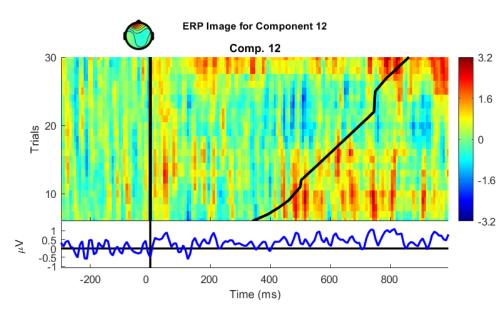


Frontal FC6		
Time(ms)	Alpha	
[0, 50]	desync	
[200, 400]	sync	

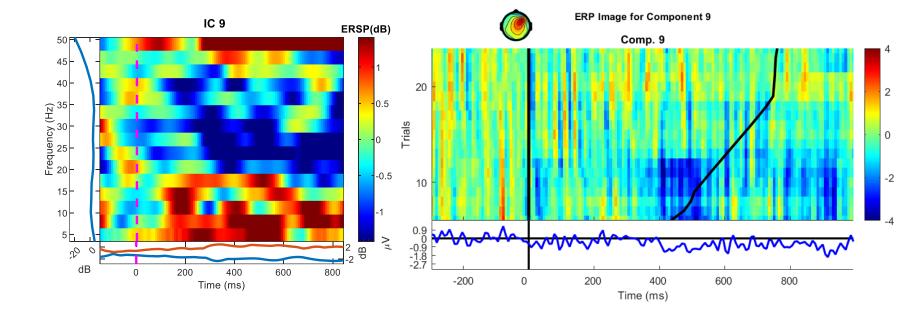


Frontal AF3		
Time(ms)	Alpha	
[0, 50]	desync	
[200, 400]	sync	



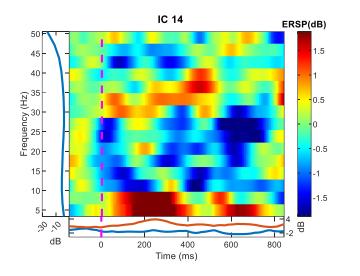


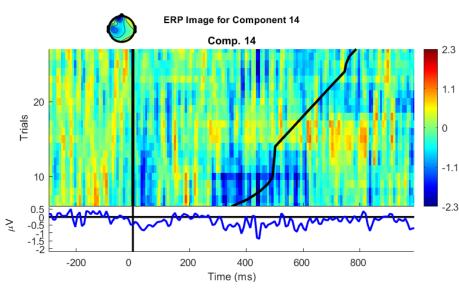
Frontal F4		
Time(ms)	Alpha	
[0, 50]	desync	
[200, 420]	sync	

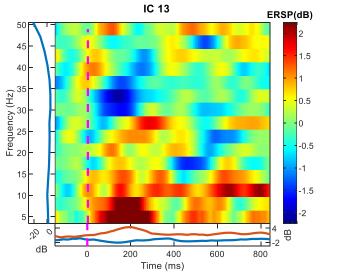


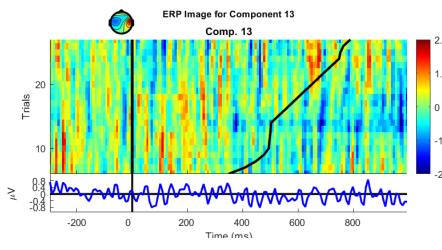
Frontal AF3		
Time(ms)	Alpha	
[0, 50]	desync	
[200, 400]	sync	

Frontal FC6		
Time(ms)	Alpha	
[0, 50]	desync	
[200, 400]	sync	

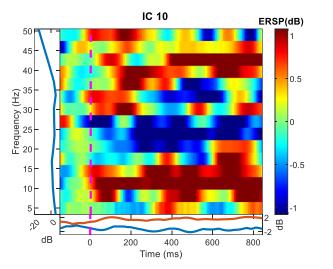


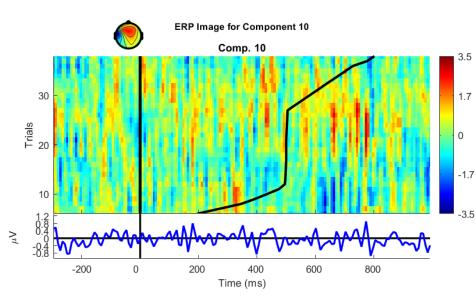




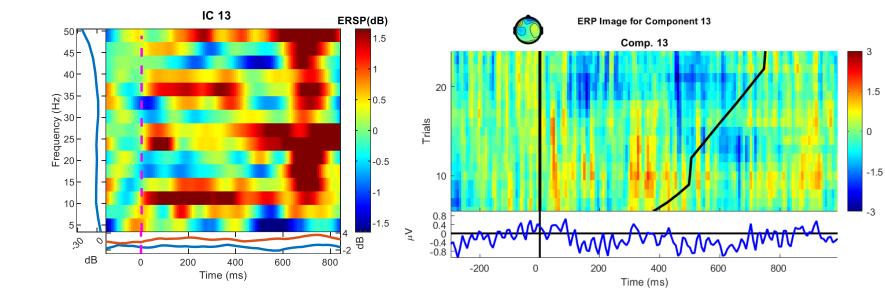


Frontal F3		
Time(ms)	Alpha	
[0, 50]	desync	
[200, 400]	sync	

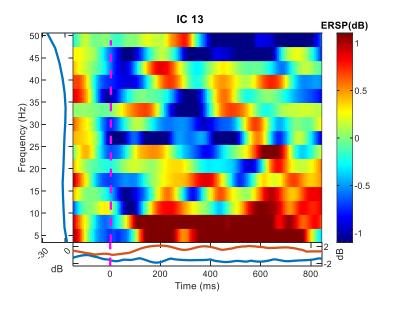


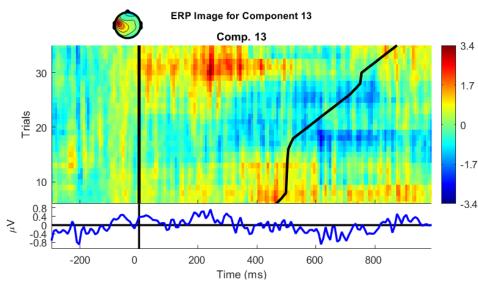


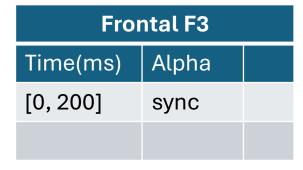
Frontal F7			
Time(ms)	Alpha		
[0, 50]	desync		
[200, 400]	sync		

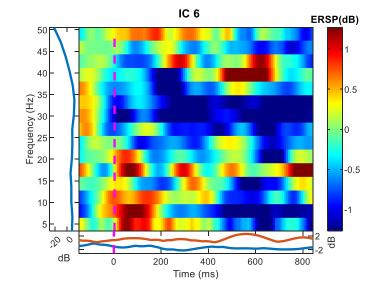


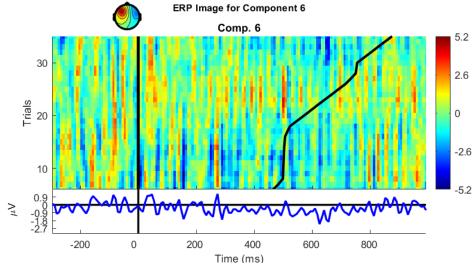
Frontal FC5			
Time(ms)	Alpha		
[0, 50]	desync		
[200, 400]	sync		



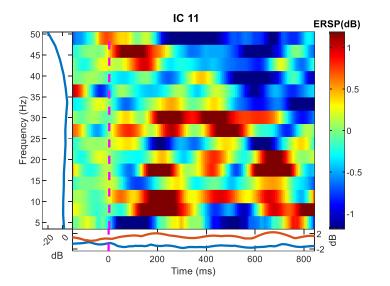


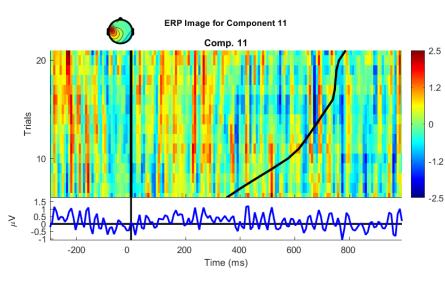




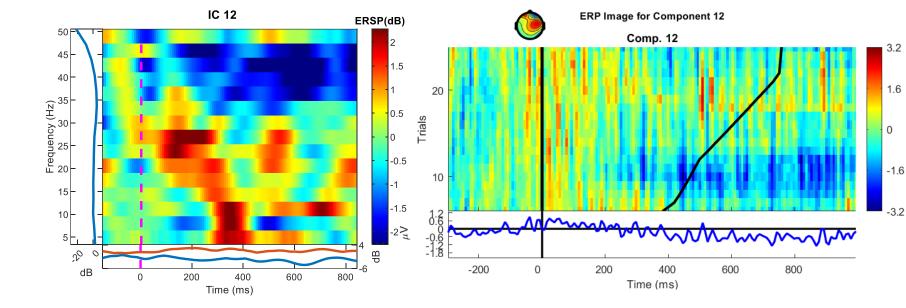


Frontal FC5			
Time(ms)	Alpha		
[0, 50]	desync		
[150, 350]	sync		





Frontal FC6			
Time(ms)	Alpha		
[0, 50]	desync		
[250, 420]	sync		



==== All Regions Summary =====

Region: Left-Frontal

Components processed: 11

p-value (Early vs Middle): 0.68649 (decrease)

p-value (Middle vs Later): 0.85801853 (increase)

p-value (Early vs Later): 0.28225506 (decrease)

Region: Right-Frontal

Components processed: 6

p-value (Early vs Middle): 0.014033 (increase)

p-value (Middle vs Later): 0.00058605916 (decrease)

p-value (Early vs Later): 0.34256243 (decrease)
