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

Subject 111

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.

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

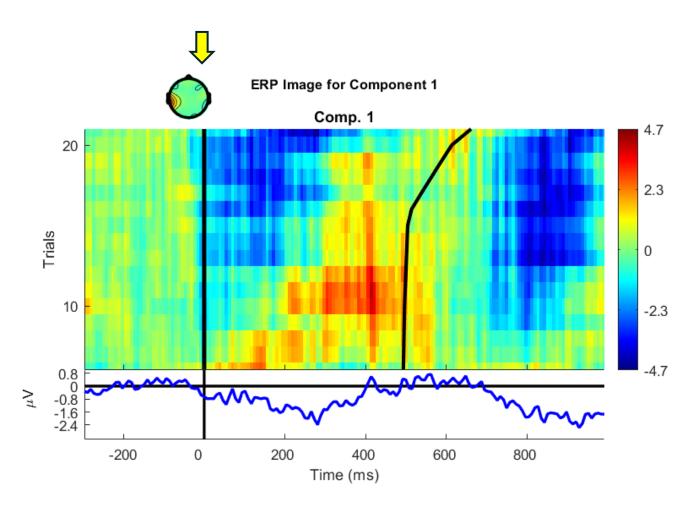
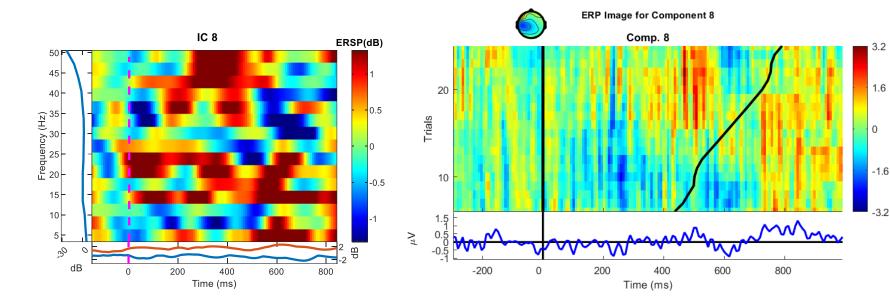
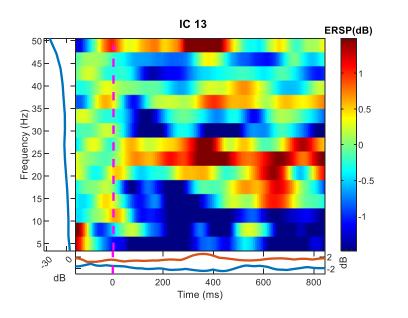


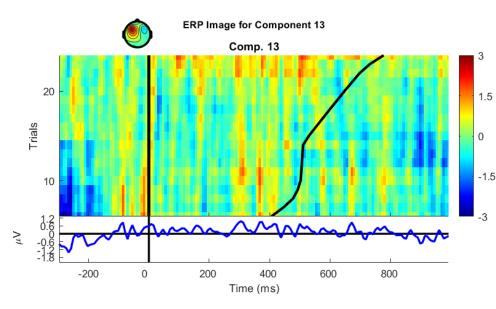
Figure 1. ERP of the 1st component for subject 104 training session 1. Event '7' is the stimulus onset when time = 0ms. Event '6' marks the car's forward movement with a black line, sorted by latency

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

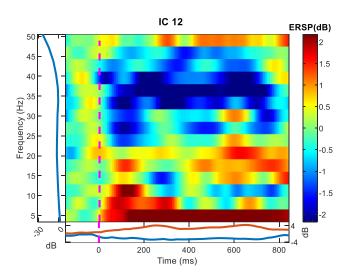


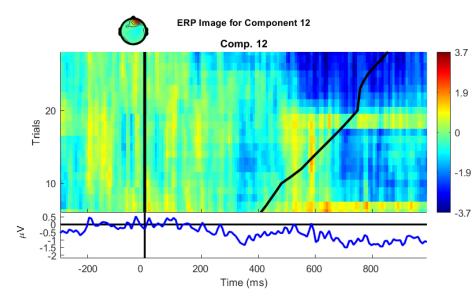
Frontal F3			
Time(ms) Alpha			
[0, 50]	desync		
[200, 400]	desync		





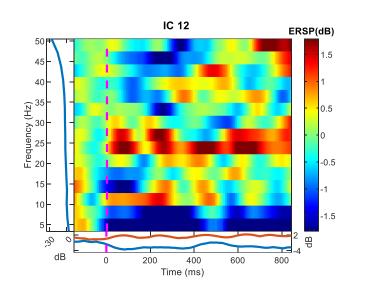
Frontal AF4		
Time(ms)	Alpha	
[0, 50]	sync	
[200, 400]	sync	

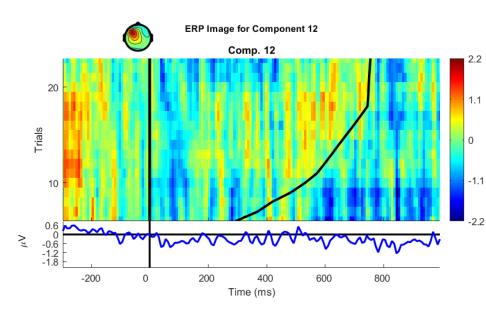


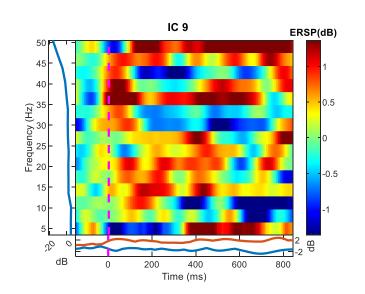


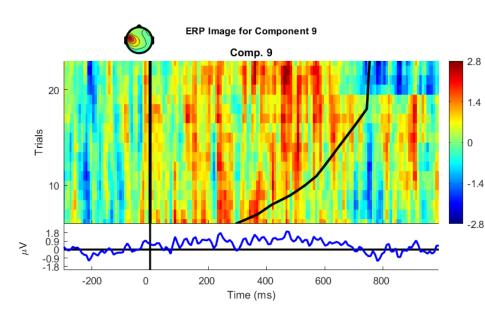
Frontal F3		
Time(ms)	Alpha	
[0, 50]	desync	
[200, 400]	desync	

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

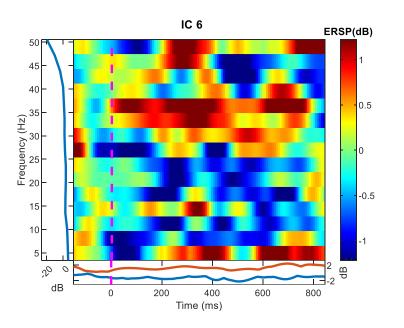


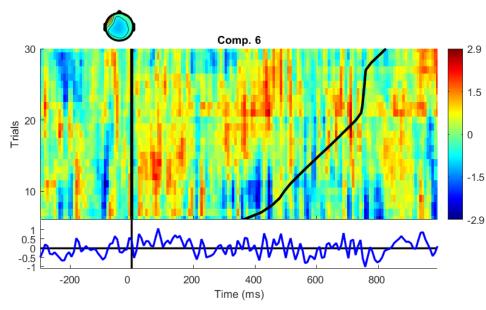




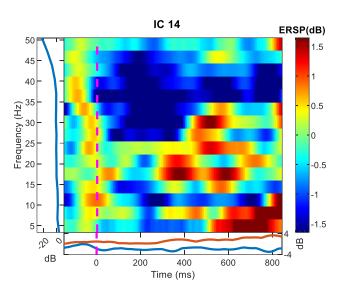


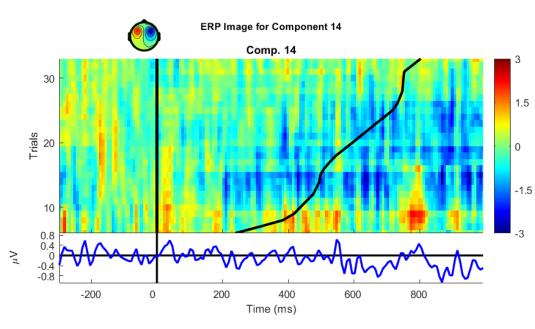
Frontal F7		
Time(ms)	Alpha	
[0, 50]	desync	
[200, 400]	sync	



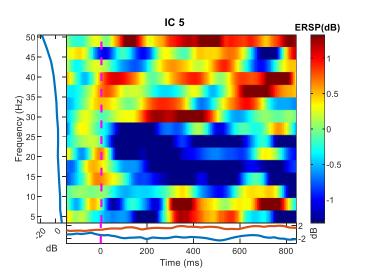


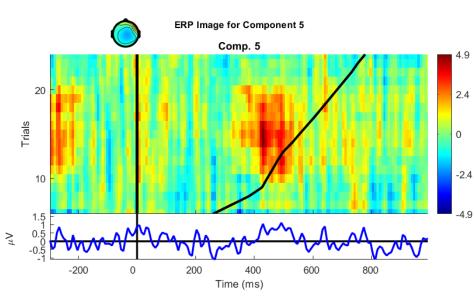
Frontal F3			
Time(ms) Alpha			
[0, 50]	desync		
[100, 250]	sync		





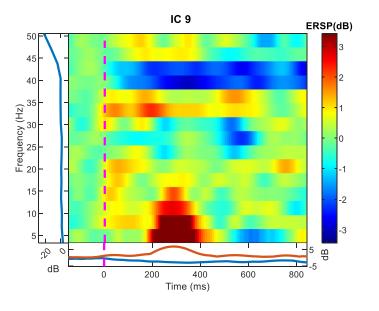
Frontal F8		
Time(ms)	Alpha	
[0, 100]	desync	
[300, 430]	sync	

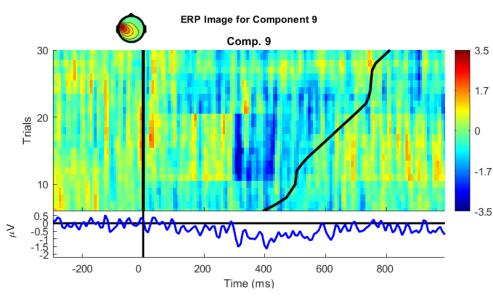




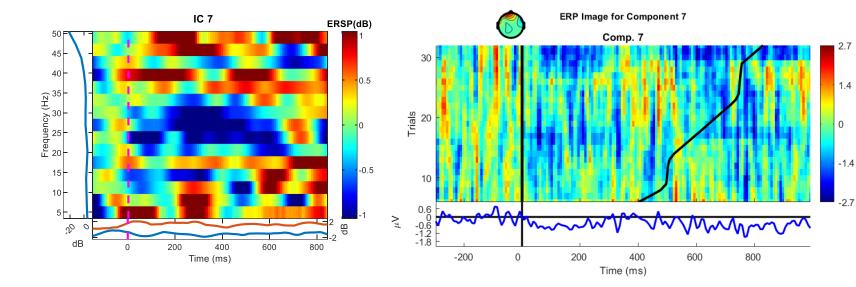
Frontal FC5			
Time(ms) Alpha			
[0, 50]	desync		
[200, 400]	sync		



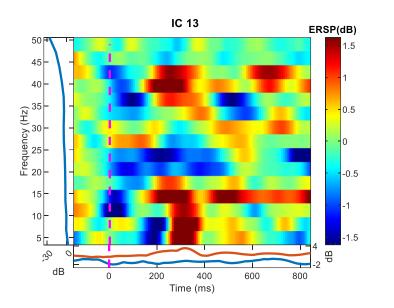


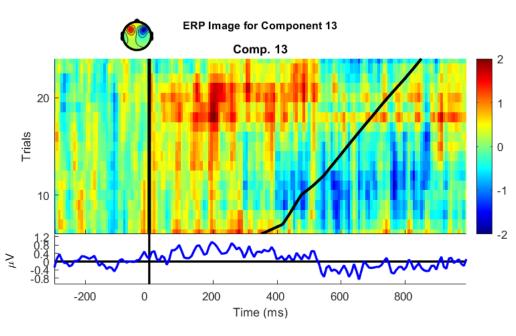


Frontal AF3			
Time(ms) Alpha			
[0, 50]	desync		
[200, 400]	sync		

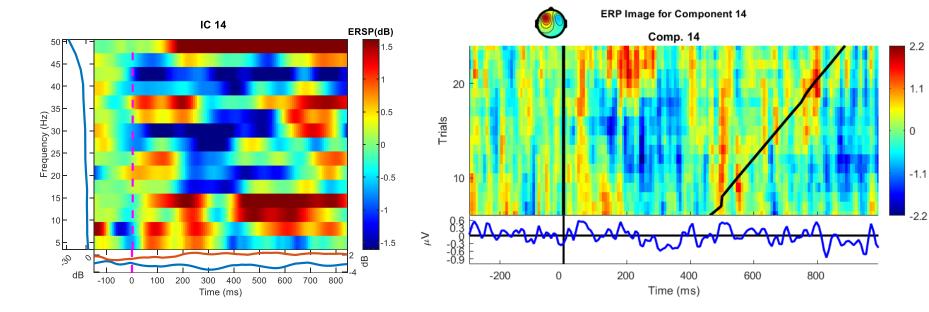


Frontal F3			
Time(ms) Alpha			
[0, 50]	desync		
[240, 350]	sync		

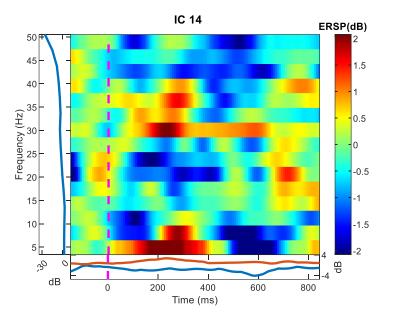


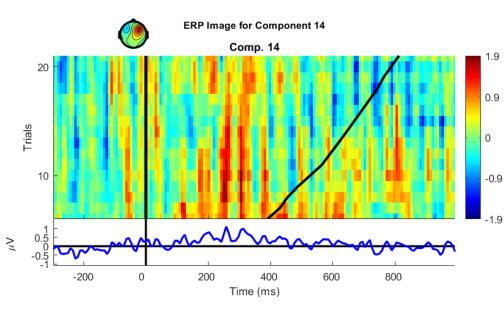


Frontal F3			
Time(ms) Alpha			
[0, 50]	sync		
[100, 300]	sync		

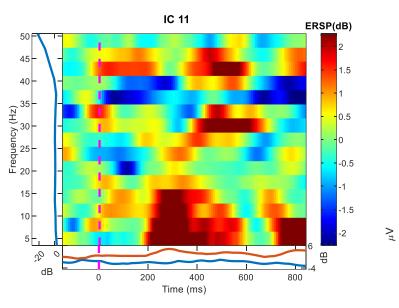


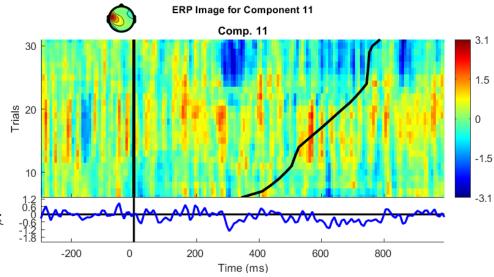
Frontal F4		
Time(ms)	Alpha	
[0, 50]	desync	
[200, 400]	sync	



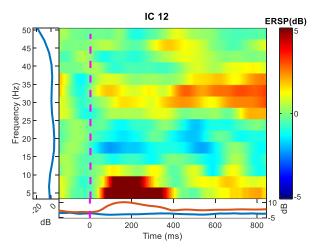


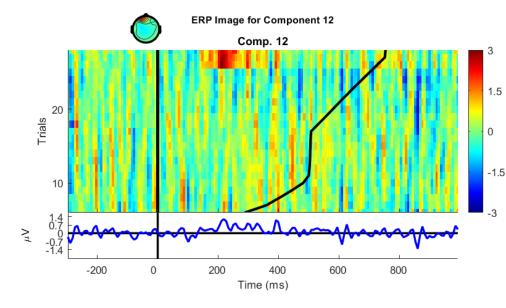
Frontal FC5		
Time(ms)	Alpha	
[0, 50]	desync	
[200, 400]	sync	





Frontal AF3			
Time(ms)	Alpha		
[0, 50]	desync		
[150, 350]	sync		





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

Region: Left-Frontal

Components processed: 13

p-value (Early vs Middle): 0.85574 (decrease)

p-value (Middle vs Later): 0.00015981974 (decrease)

p-value (Early vs Later): 3.005187e-07 (decrease)

Region: Right-Frontal

Components processed: 3

p-value (Early vs Middle): 7.5131e-06 (decrease)

p-value (Middle vs Later): 0.0019089775 (increase)

p-value (Early vs Later): 0.12364033 (decrease)

No data available for Left-Temporal

No data available for Right-Temporal

No data available for Left-Occipital

No data available for Right-Occipital

No data available for Left-Parietal

No data available for Right-Parietal