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

Subject 103

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' (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

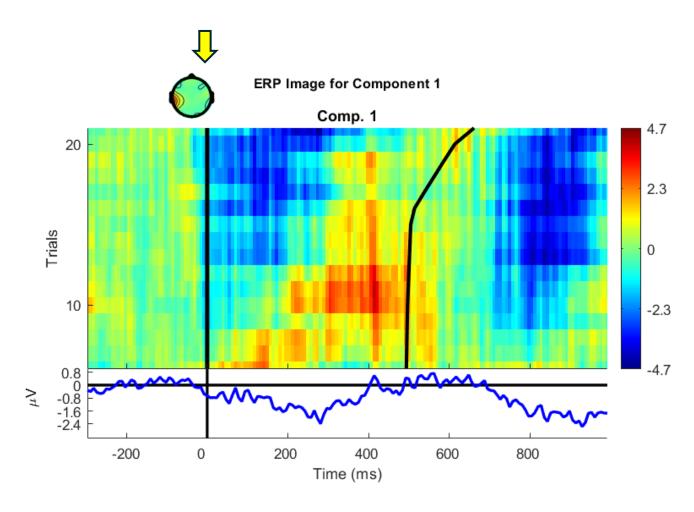
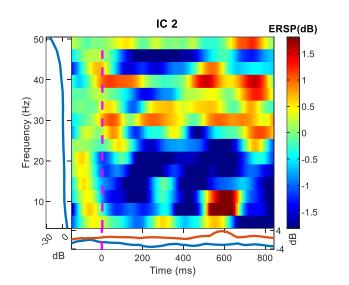
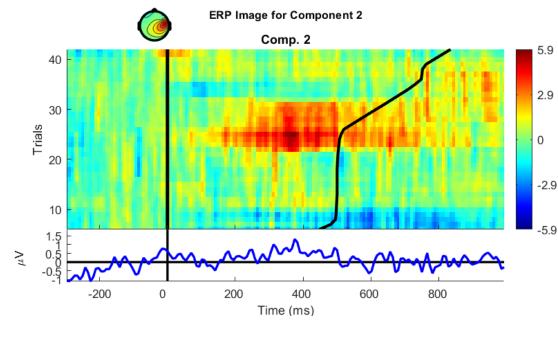


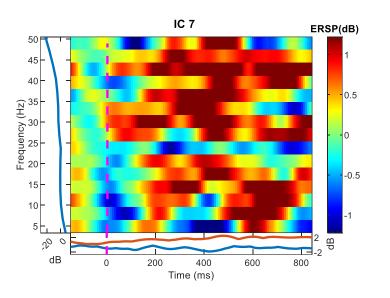
Figure 1. ERP of the 1st component for subject 104 training session 1. Event '7' is the stimulus onset when time = 0ms. Event '6' marks the car's forward movement with a black line, sorted by latency

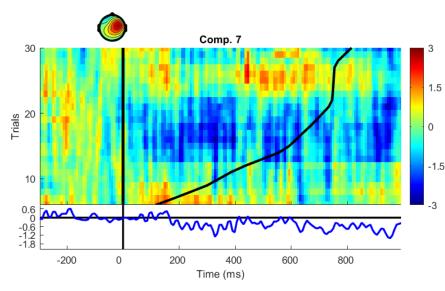
Frontal FC6		
Time(ms)	Alpha	
[-100, 50]	desync	
[500, 650]	sync	



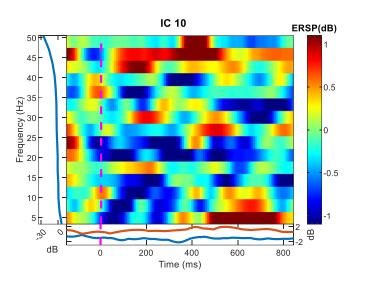


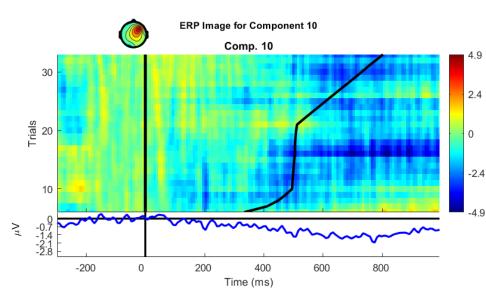
Frontal FC6		
Time(ms)	Alpha	
[-50, 100]	desync	
[500, 700]	sync	





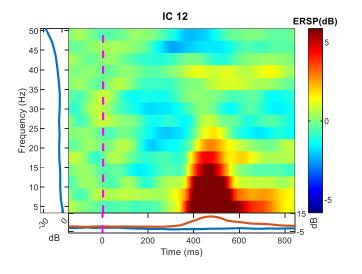
Frontal F4		
Time(ms)	Alpha	
[-50, 100]	desync	
[500, 700]	sync	

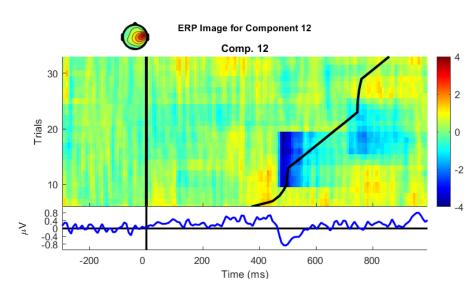


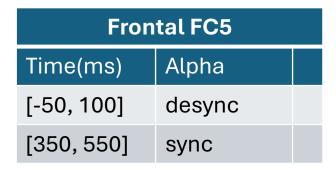


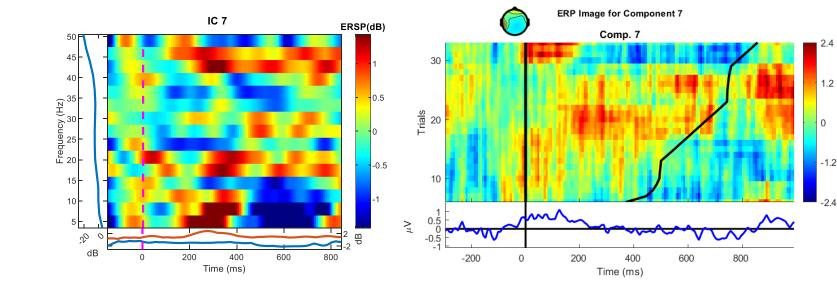
Frontal FC6		
Time(ms)	Alpha	
[-50, 100]	desync	
[400, 600]	sync	

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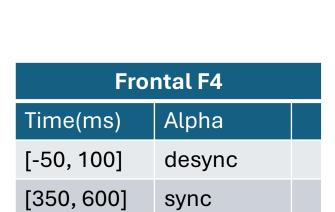


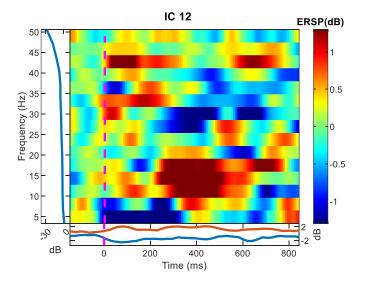


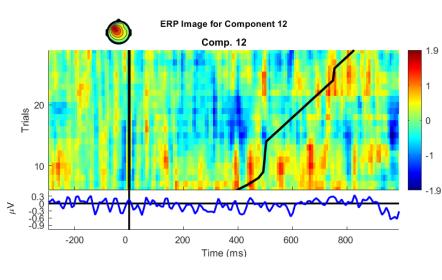


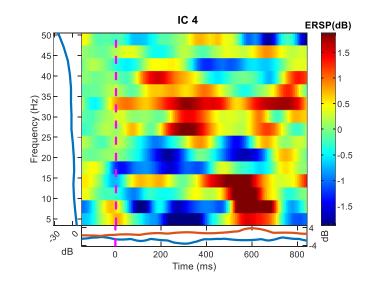


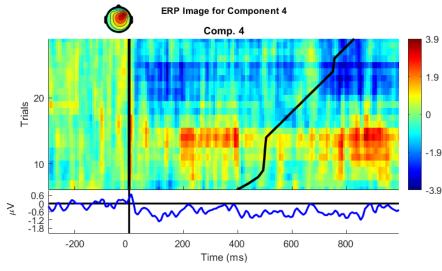
Frontal F3		
Time(ms)	Alpha	
[-50, 100]	desync	
[350, 600]	sync	





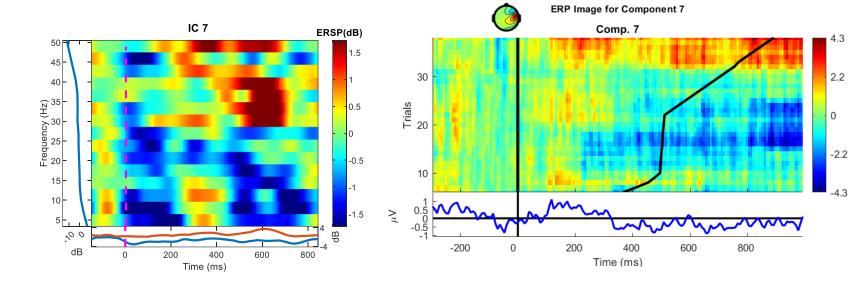


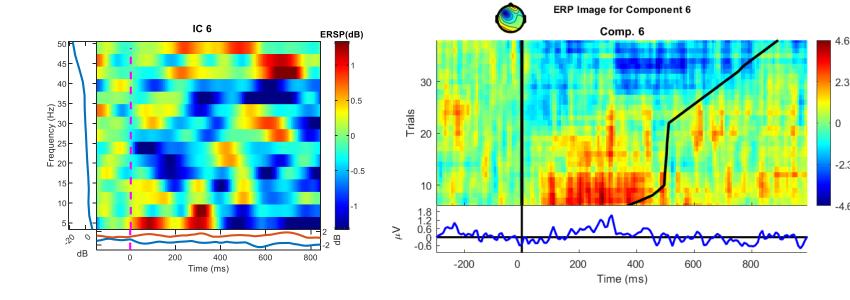




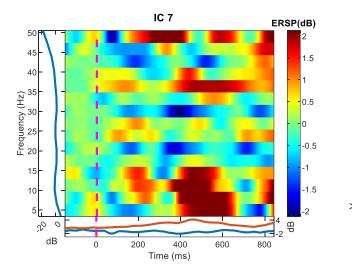
Frontal FC6		
Time(ms)	Alpha	
[-50, 100]	desync	
[400, 600]	sync	

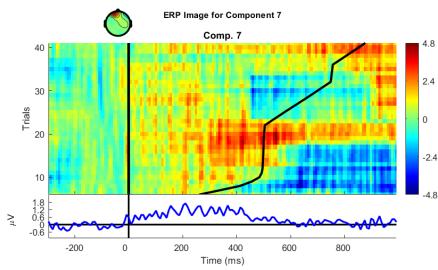
Frontal F3		
Time(ms)	Alpha	
[-50, 100]	desync	
[400, 600]	sync	



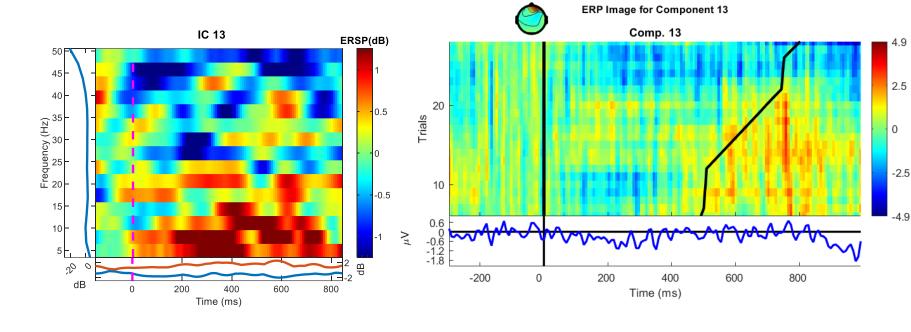


Frontal AF3		
Time(ms)	Alpha	
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[500, 700]	sync	

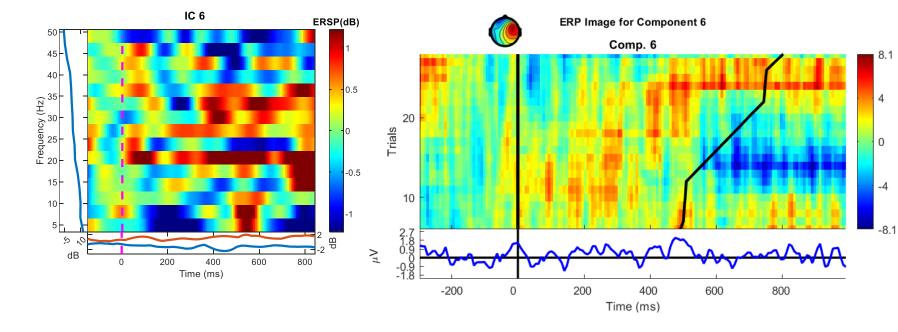




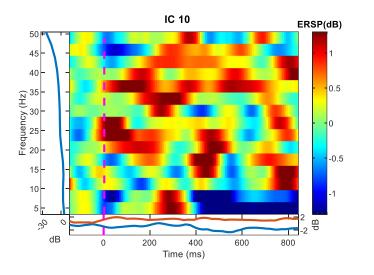
Frontal AF4		
Time(ms)	Alpha	
[-50, 100]	desync	
[400, 600]	sync	

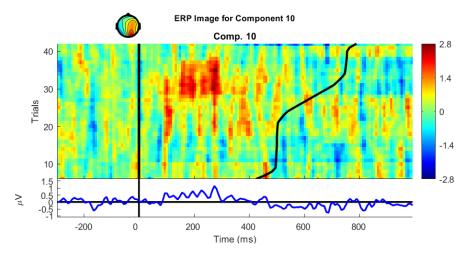


Frontal F4		
Time(ms)	Alpha	
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[400, 600]	sync	

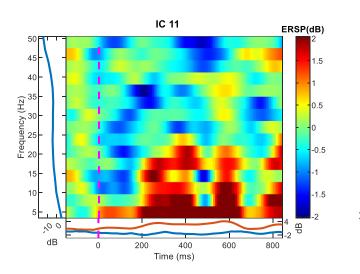


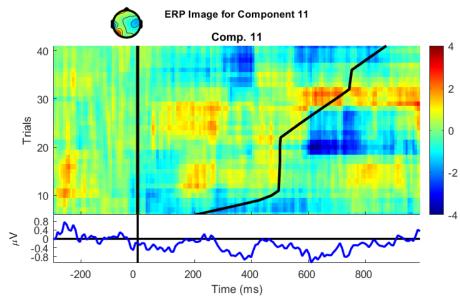
Occipital O2		
Time(ms)	Alpha	
[-50, 100]	desync	
[200, 400]	sync	



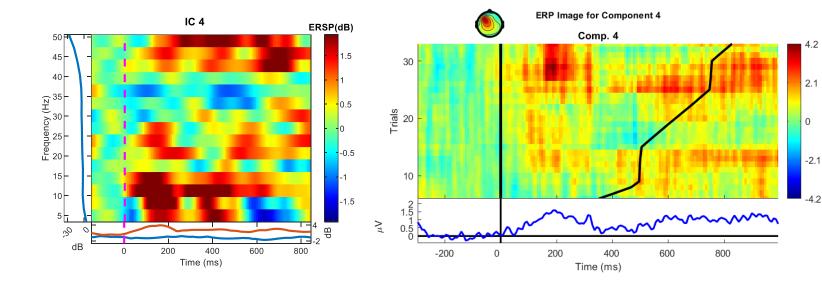


Frontal FC6		
Time(ms)	Alpha	
[-50, 100]	desync	
[350, 600]	sync	

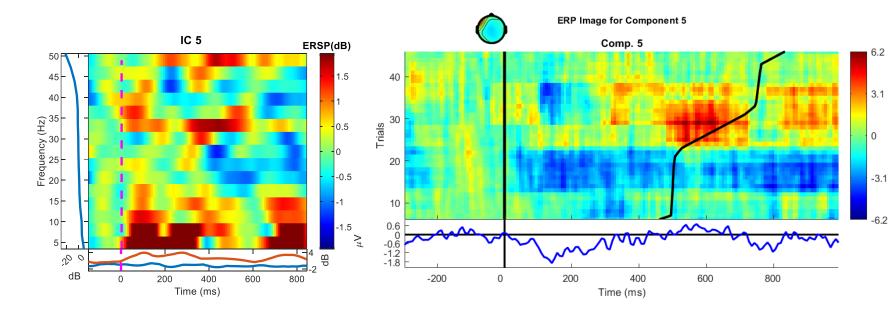




Frontal F3	
Time(ms)	Alpha
[0, 50]	desync
[200, 400]	sync

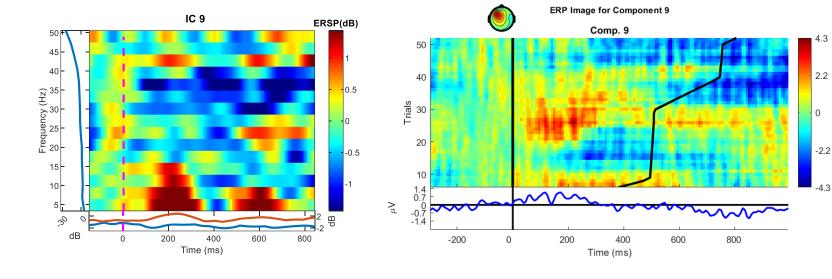


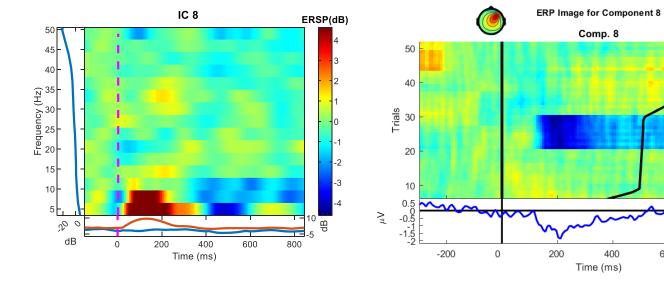
Frontal F7	
Time(ms)	Alpha
[0, 100]	sync
[150, 400]	sync



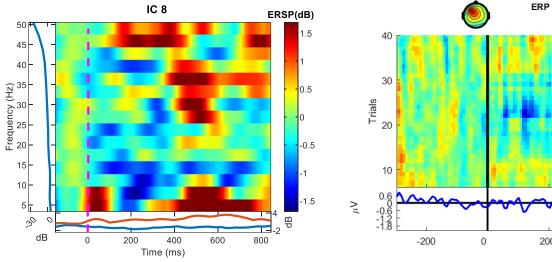
Frontal F3		
Time(ms)	Alpha	
[-50, 100]	desync	
[150, 400]	sync	

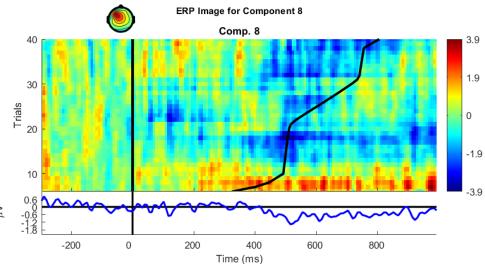
Frontal F4		
Time(ms)	Alpha	
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[100, 250]	sync	



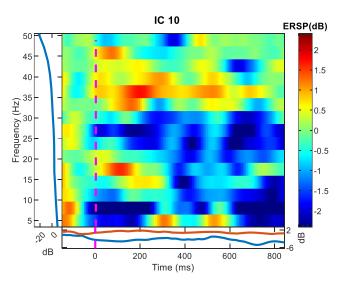


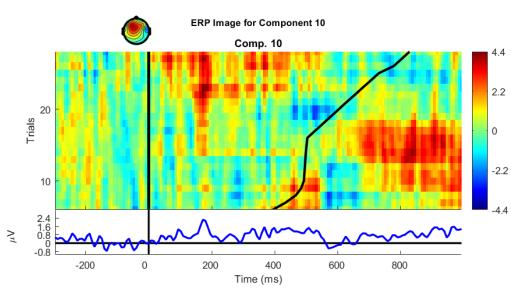
Frontal FC6	
Time(ms)	Alpha
[-50, 100]	sync
[400, 600]	sync



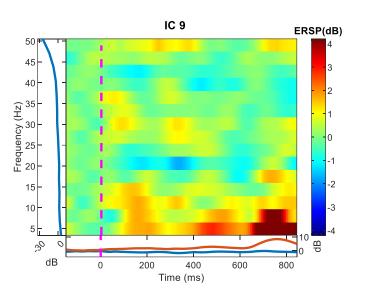


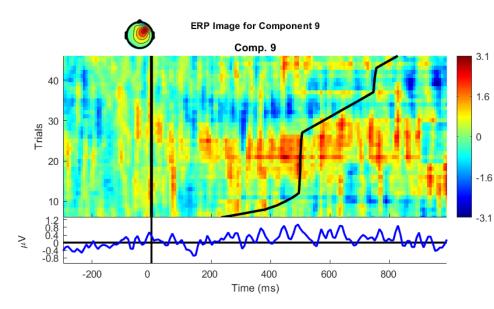
Frontal FC6	
Time(ms)	Alpha
[-50, 150]	desync
[200, 400]	sync



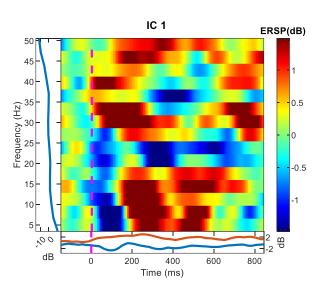


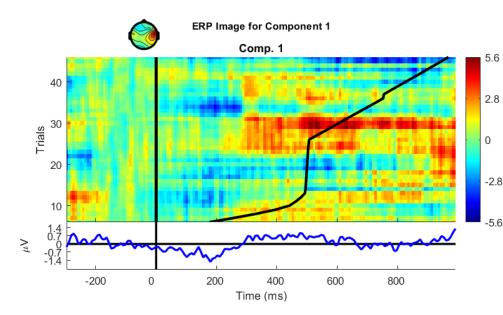
Frontal F4		
Time(ms)	Alpha	
[-50, 100]	desync	
[400, 600]	sync	





Frontal FC6	
Time(ms)	Alpha
[-50, 100]	desync
[200, 450]	sync





==== All Regions Summary ===== Region: Left-Occipital Region: Left-Frontal Components processed: 0 Components processed: 7 p-value (Early vs Middle): NA p-value (Early vs Middle): 0.0051822 (increase) p-value (Middle vs Later): NA p-value (Middle vs Later): 0.52686152 (decrease) p-value (Early vs Later): NA p-value (Early vs Later): 0.00068030085 (increase) Region: Right-Occipital Region: Right-Frontal Components processed: NA Components processed: 13 p-value (Early vs Middle): NA p-value (Early vs Middle): 5.3151e-05 (increase) p-value (Middle vs Later): NA p-value (Middle vs Later): 0.00029327493 (decrease) p-value (Early vs Later): NA p-value (Early vs Later): 0.44043639 (increase) Region: Left-Parietal Region: Left-Temporal Components processed: 0 Components processed: 0 p-value (Early vs Middle): NA p-value (Early vs Middle): NA p-value (Middle vs Later): NA p-value (Middle vs Later): NA p-value (Early vs Later): NA p-value (Early vs Later): NA Region: Right-Parietal Region: Right-Temporal Components processed: 0 Components processed: 0 p-value (Early vs Middle): NA p-value (Early vs Middle): NA p-value (Middle vs Later): NA p-value (Middle vs Later): NA p-value (Early vs Later): NA p-value (Early vs Later): NA