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

Subject 102

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' (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

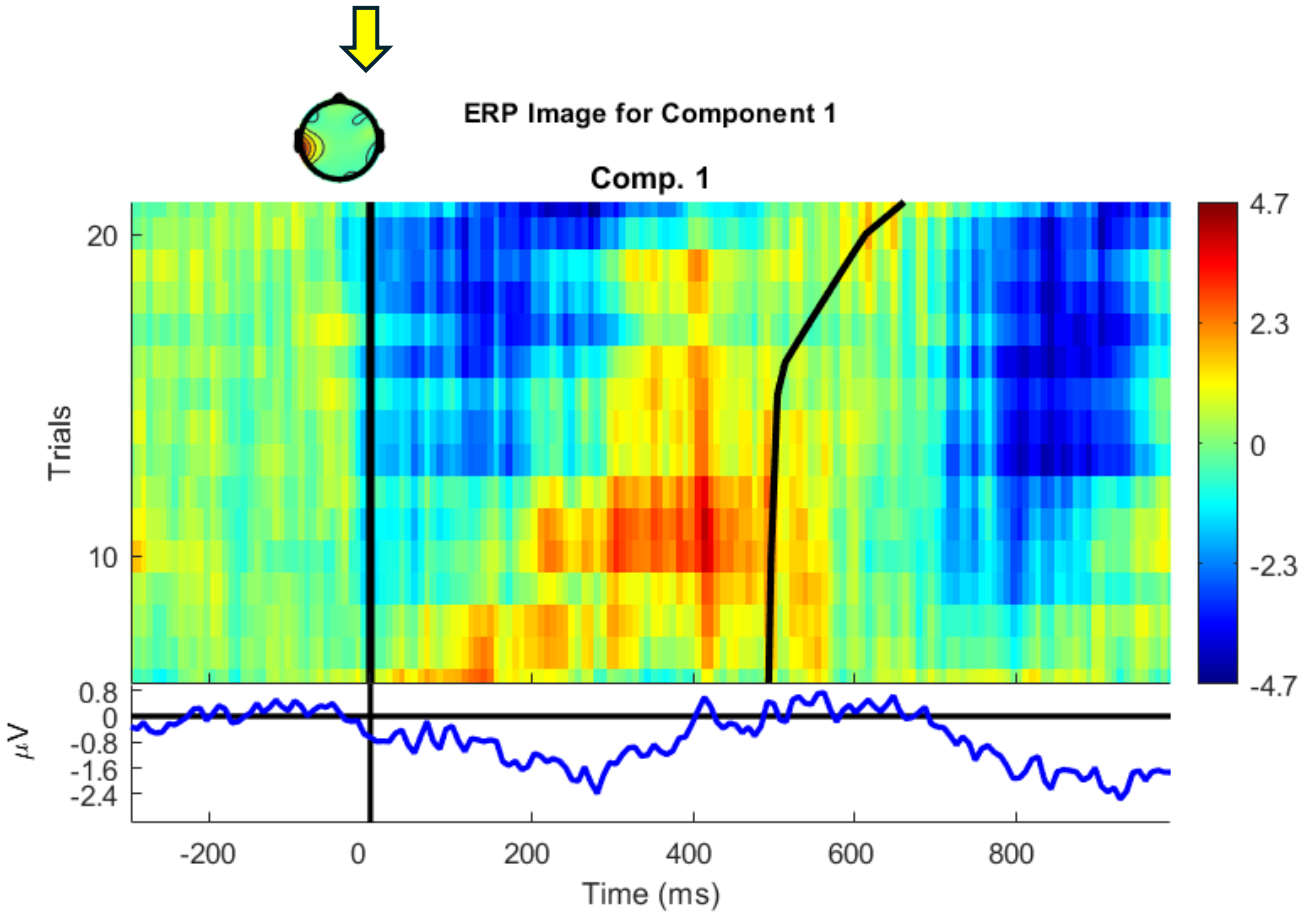
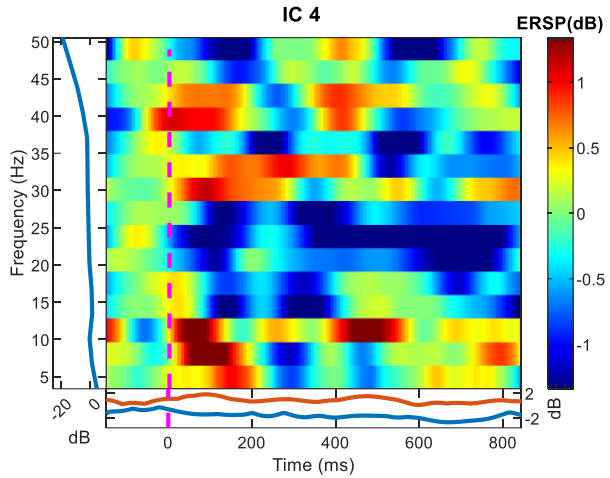
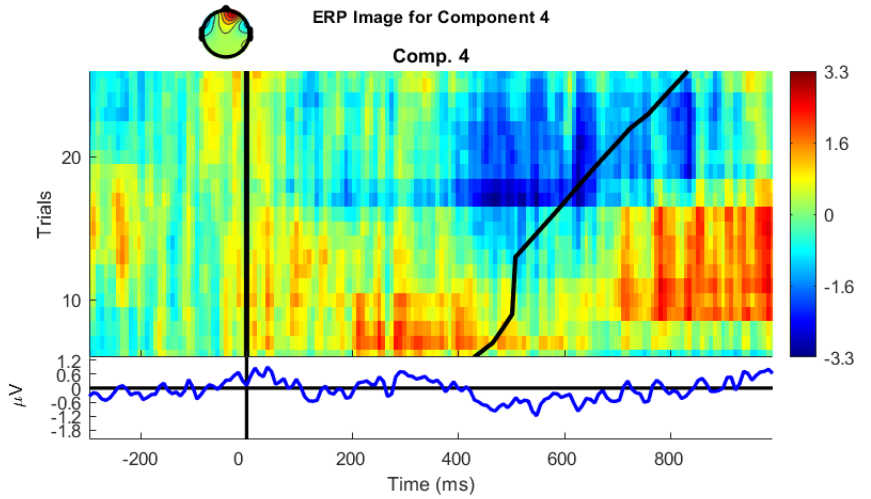


Figure 1. ERP of the 1st component for subject 104 training session 1. Event '7' is the stimulus onset when time = 0ms. Event '6' marks the car's forward movement with a black line, sorted by latency

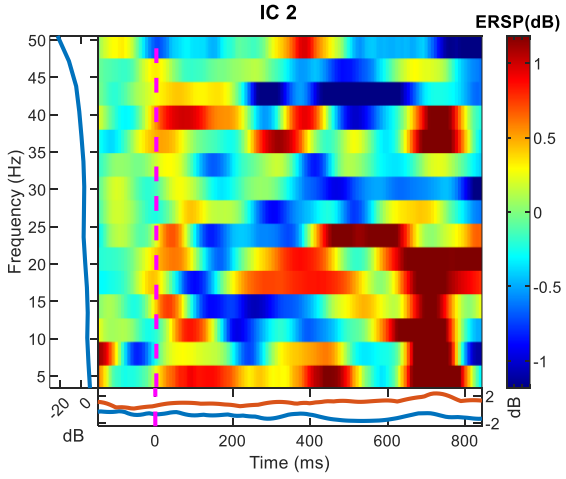
102_4

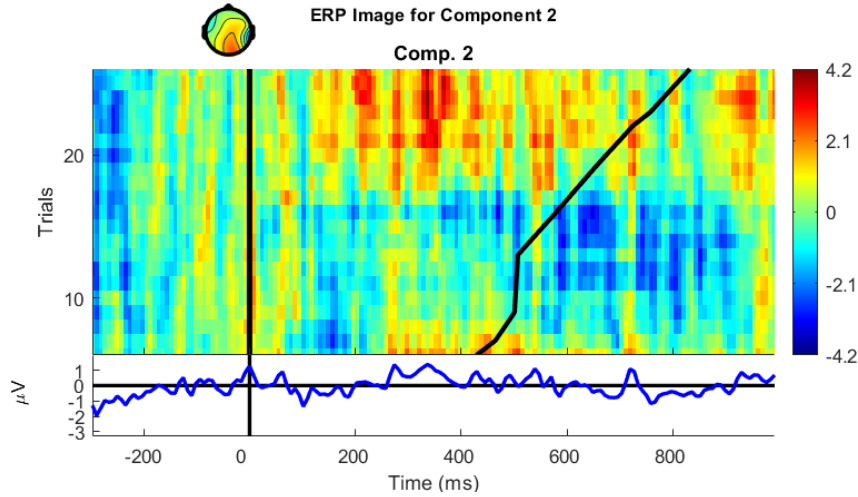
Frontal AF4		
Time(ms)	Alpha	
[-50, 100]	sync	
[390, 600]	sync	





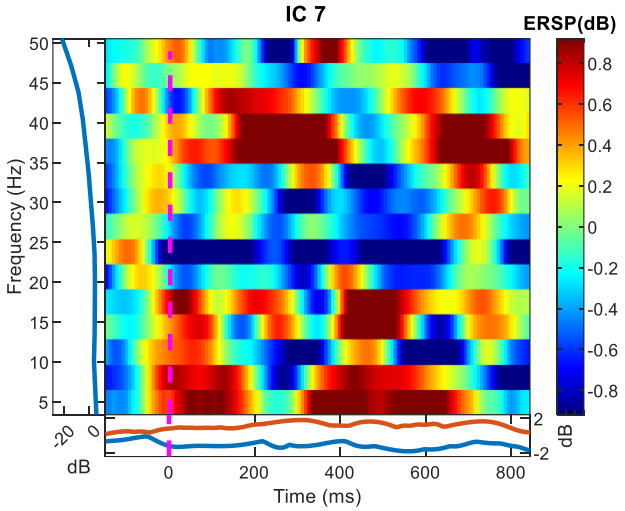
Occipital O2		
Time(ms)	Alpha	
[-50, 100]	desync	
[350, 550]	sync	

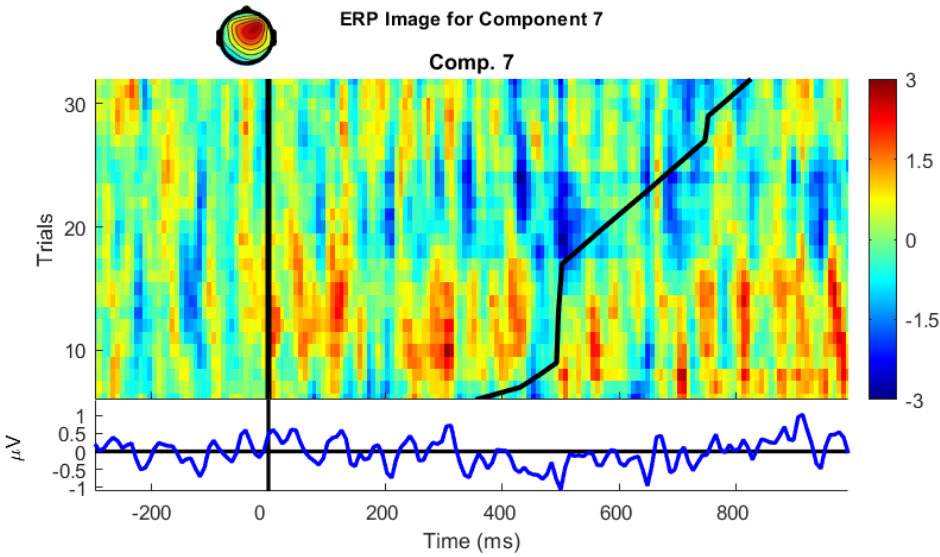




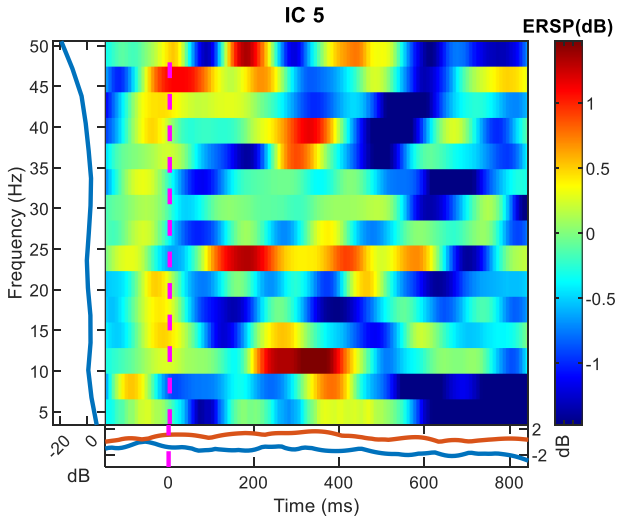
102_7

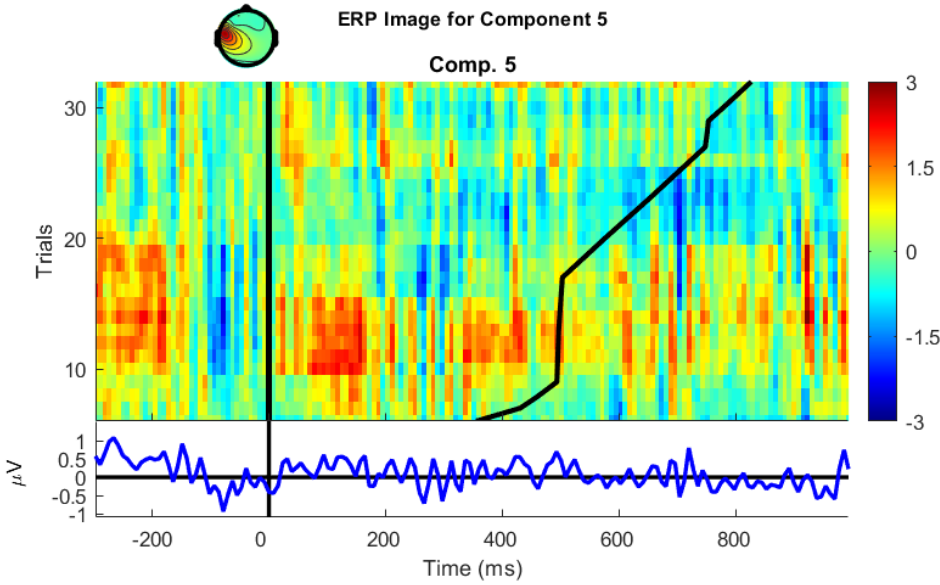
Frontal F4		
Time(ms)	Alpha	
[-50, 200]	sync	
[350, 550]	sync	





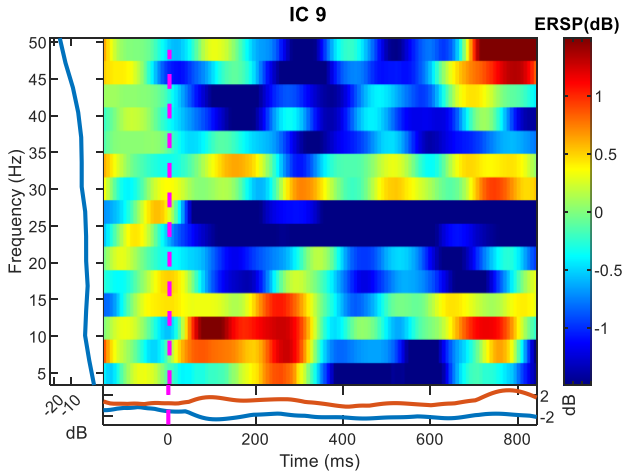
Frontal FC5		
Time(ms)	Alpha	
[-50, 100]	desync	
[300, 550]	sync	

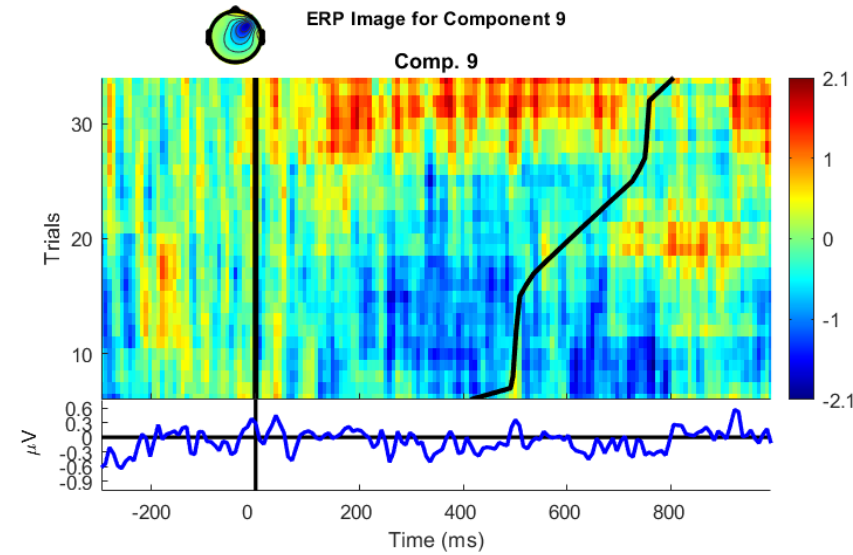




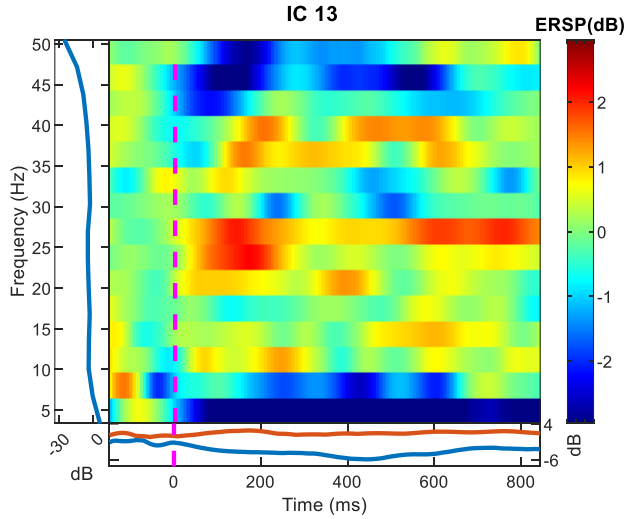
102_8

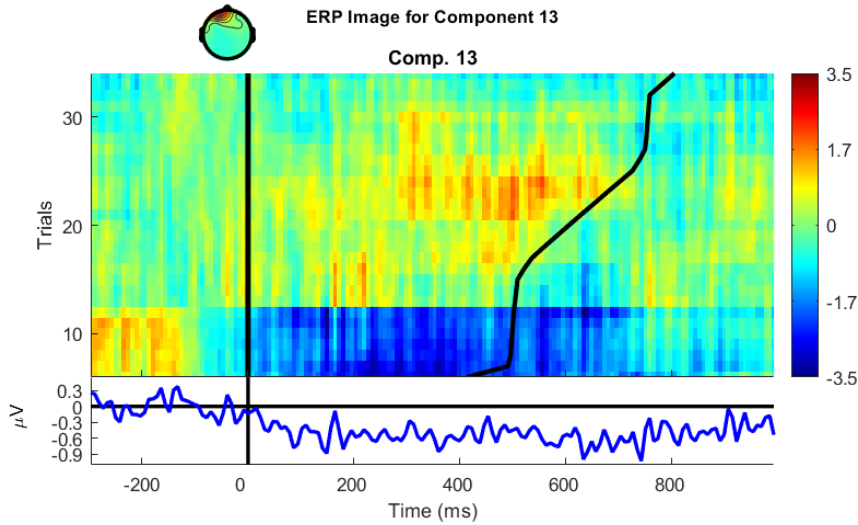
Frontal F4		
Time(ms)	Alpha	
[-50, 100]	sync	
[400, 550]	sync	





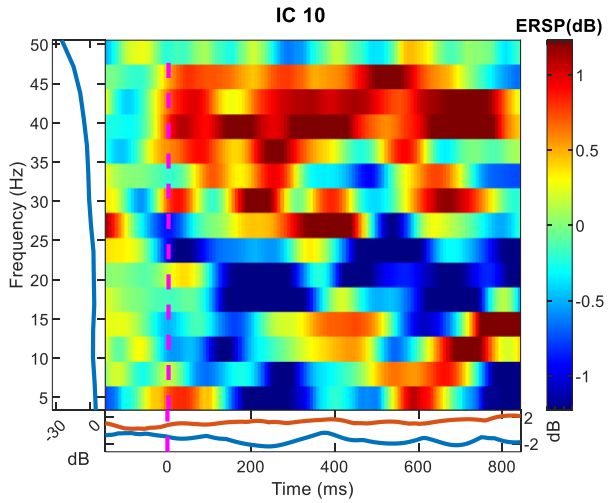
Frontal AF3		
Time(ms)	Alpha	
[-50, 100]	desync	
[400, 600]	sync	

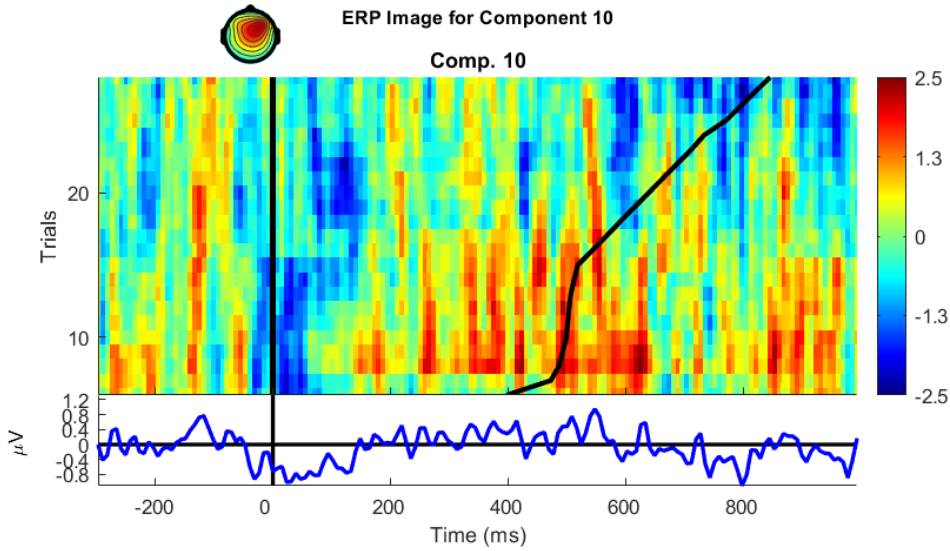




102_9

Frontal F4		
Time(ms)	Alpha	
[-50, 100]	desync	
[350, 550]	sync	



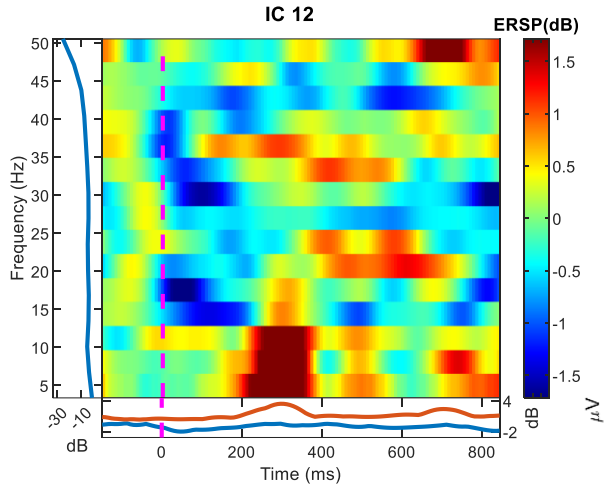


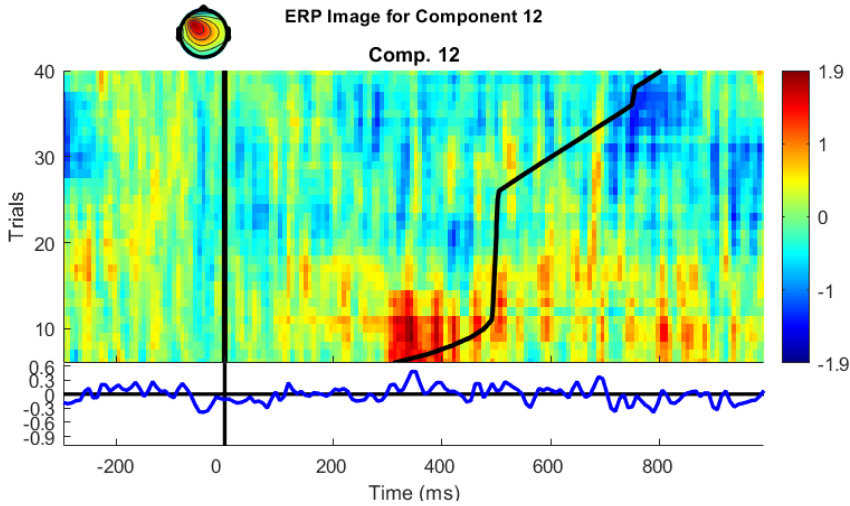
102_10

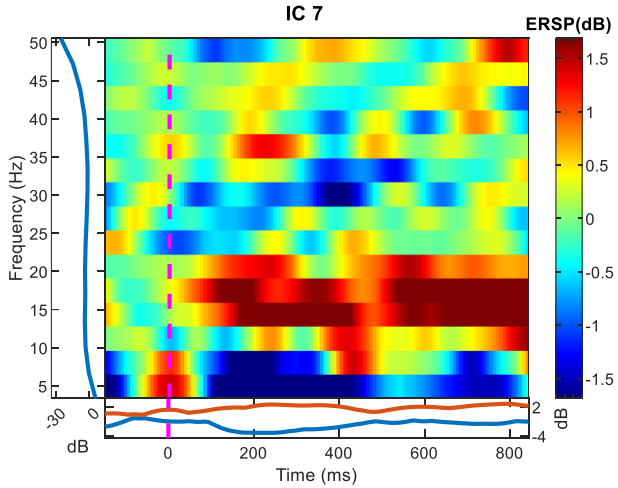
Frontal F3		
Time(ms)	Alpha	
[-50, 100]	desync	
[200, 450]	sync	

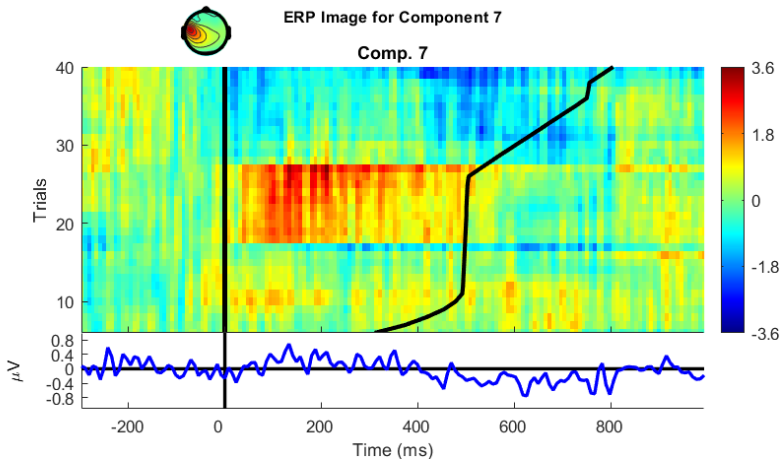
Frontal FC5		
Time(ms)	Alpha	
[-50, 100]	desync	
[350, 550]	sync	

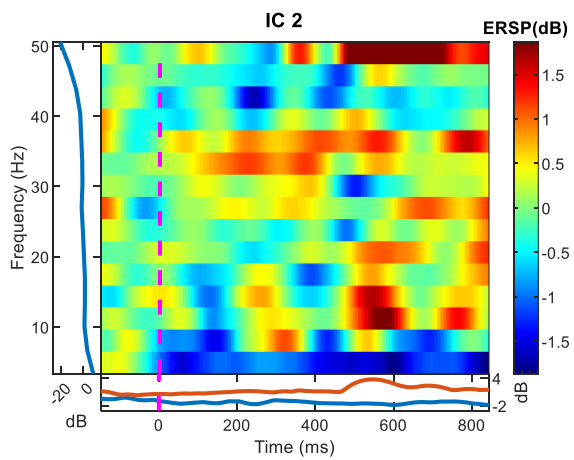
Frontal FC6		
Time(ms)	Alpha	
[-50, 100]	desync	
[420, 600]	sync	

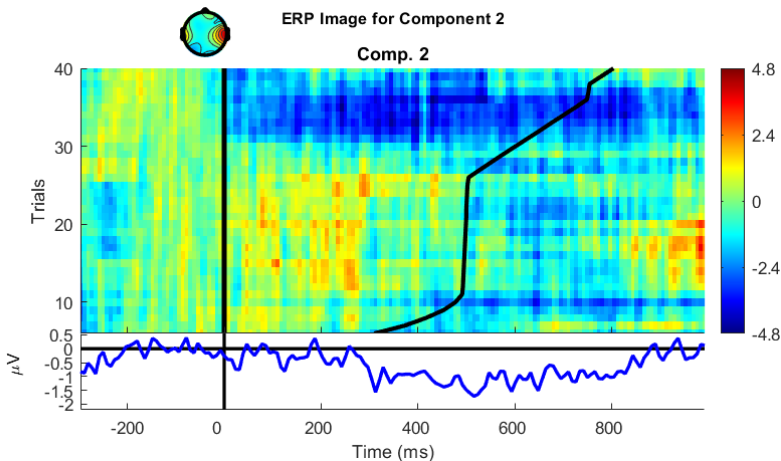






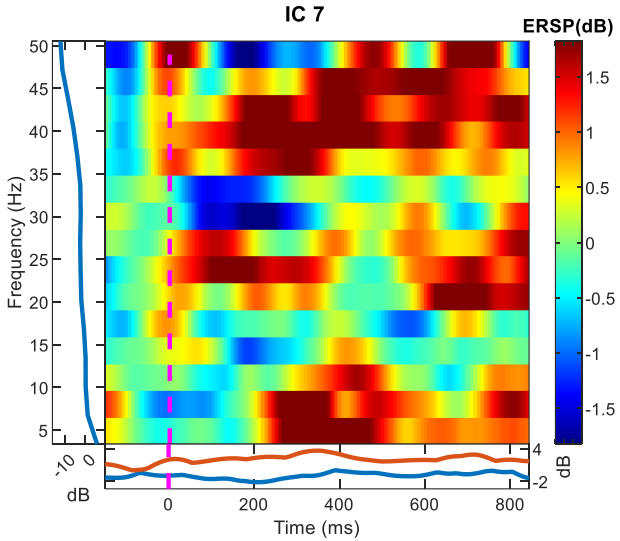


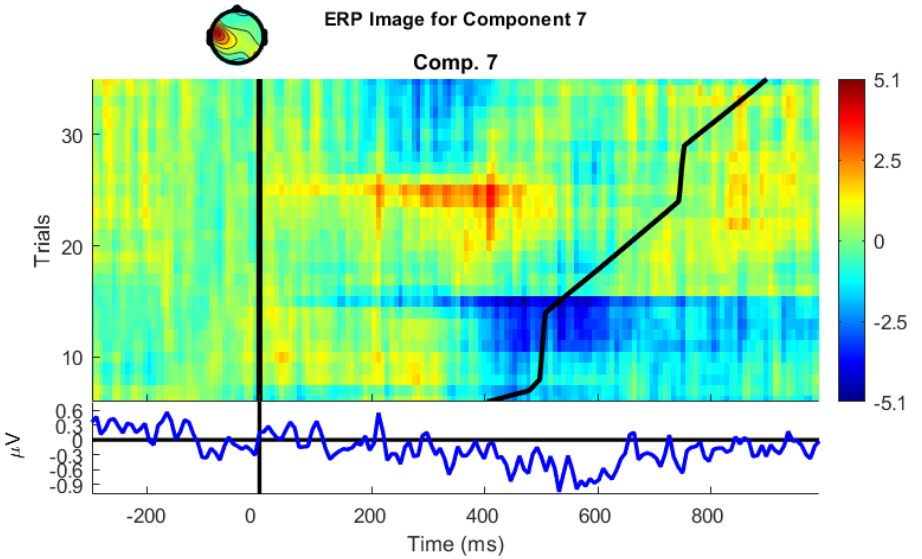




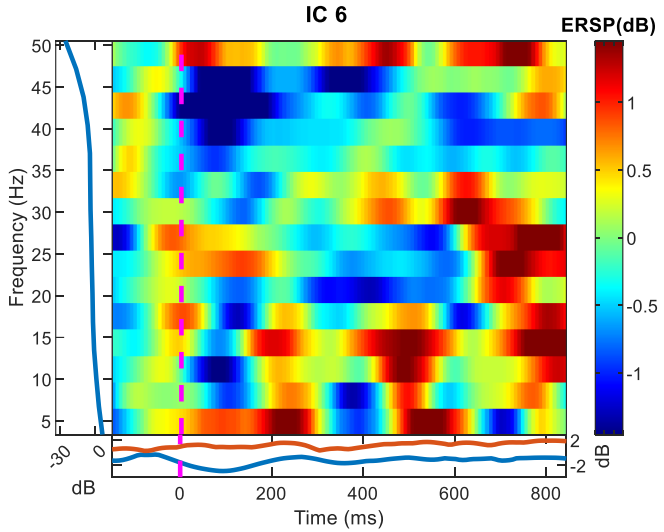
102_11

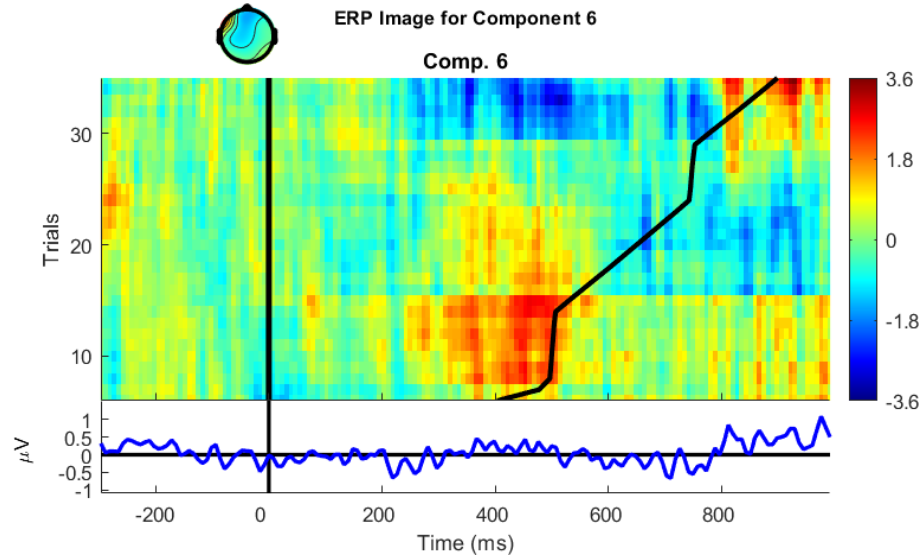
Frontal FC5		
Time(ms)	Alpha	
[-50, 100]	desync	
[350, 550]	sync	





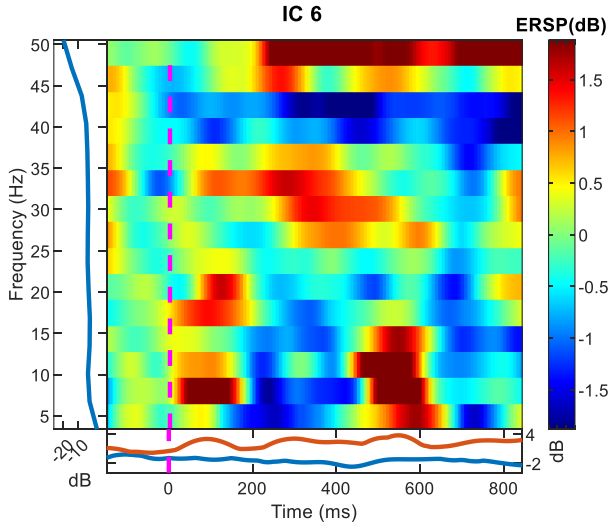
Frontal F7		
Time(ms)	Alpha	
[-50, 100]	desync	
[400, 600]	sync	

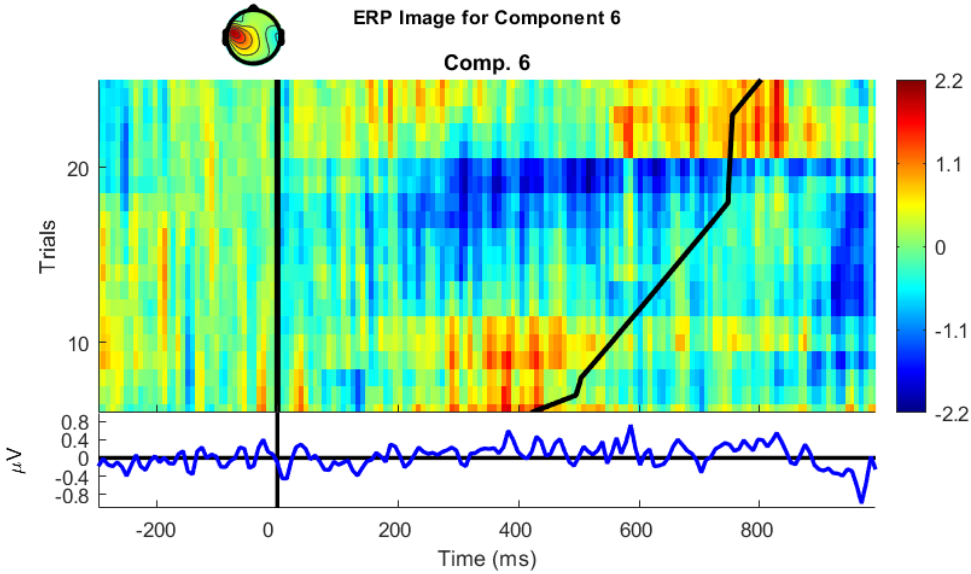




102_12

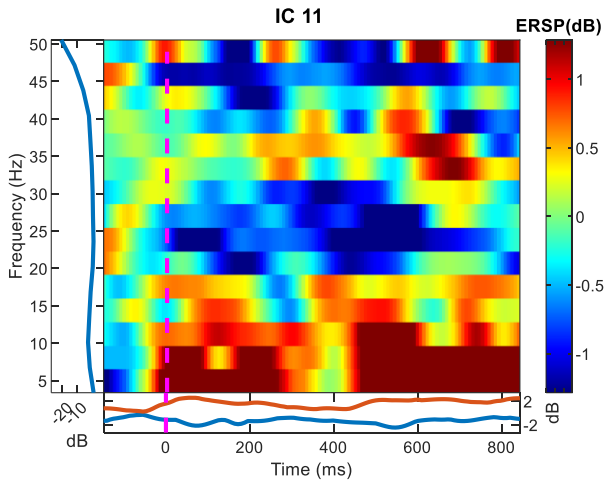
Frontal FC5		
Time(ms)	Alpha	
[-50, 100]	desync	
[400, 600]	sync	

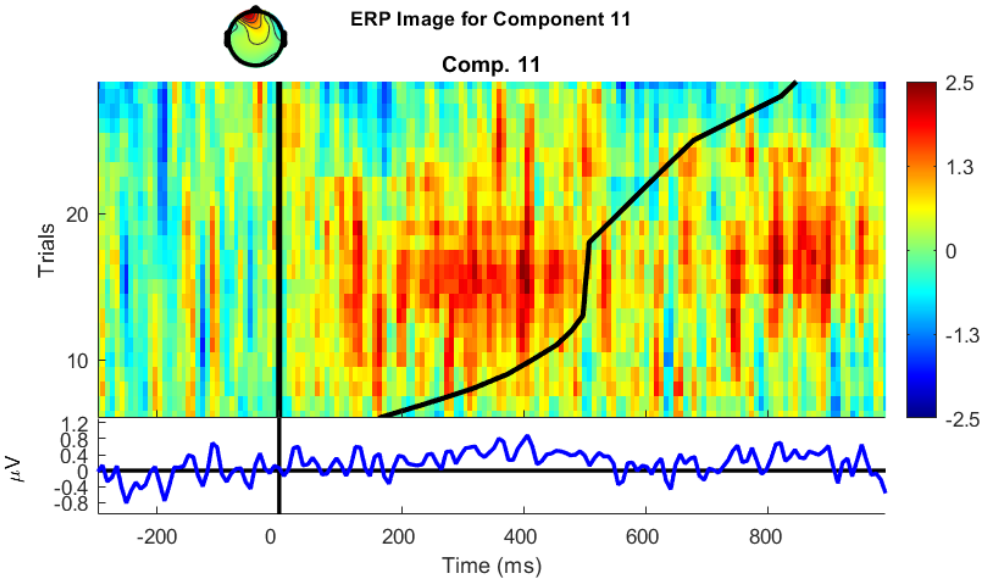




102_13

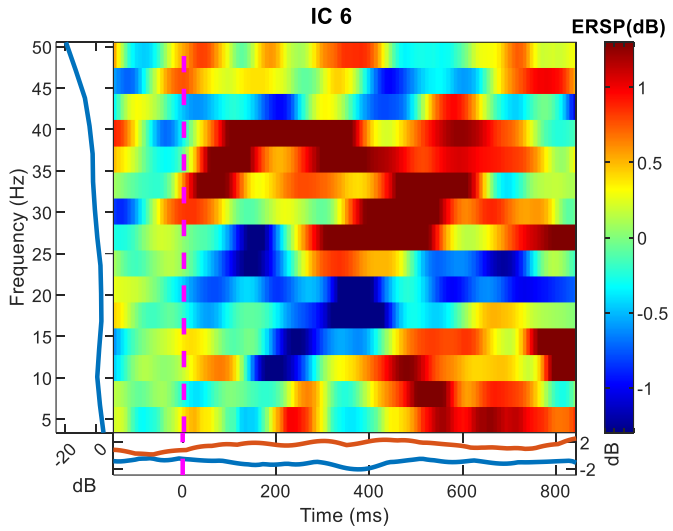
Frontal AF3		
Time(ms)	Alpha	
[-50, 100]	desync	
[400, 600]	sync	

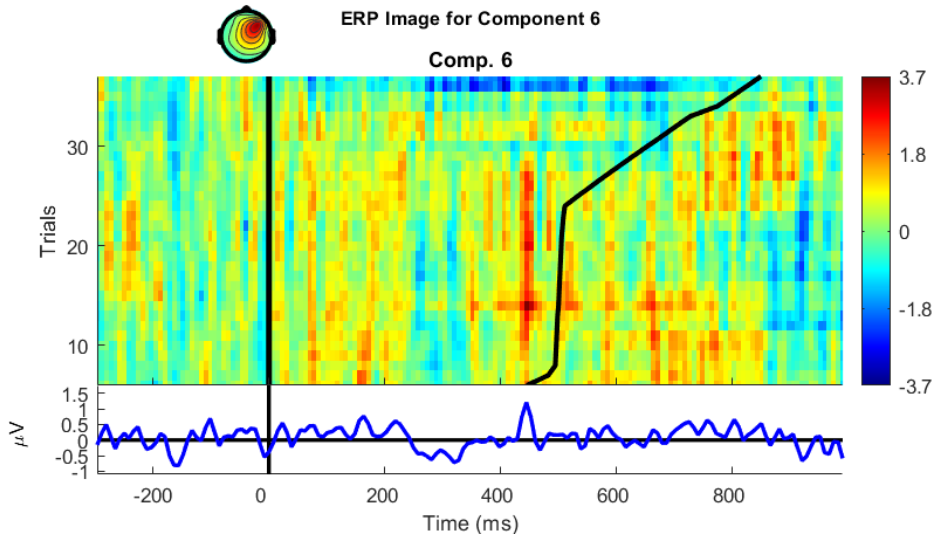




102_16

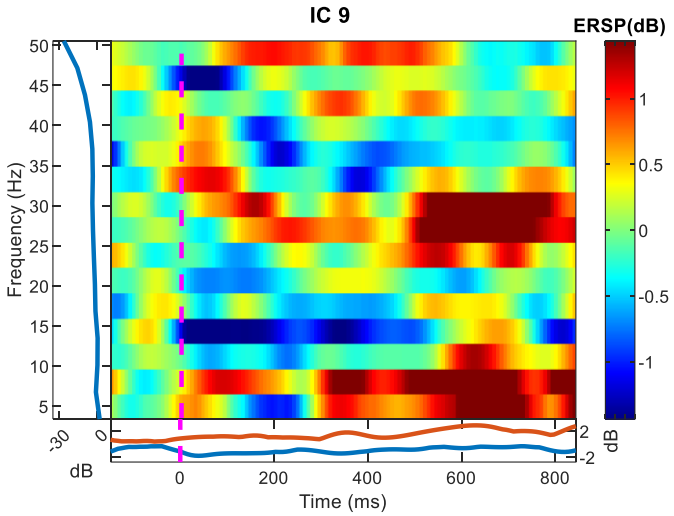
Frontal F4		
Time(ms)	Alpha	
[-50, 100]	desync	
[350, 550]	sync	

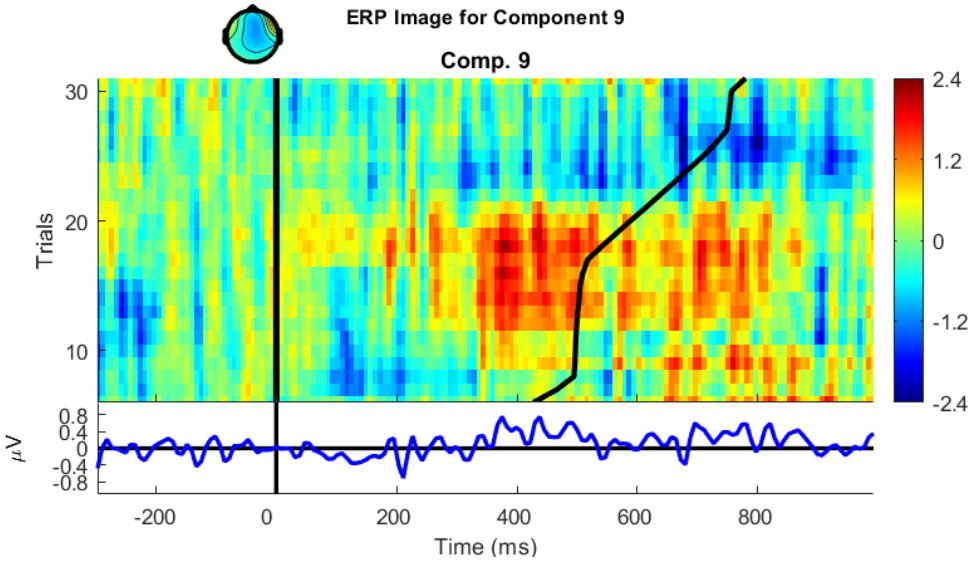




102_17

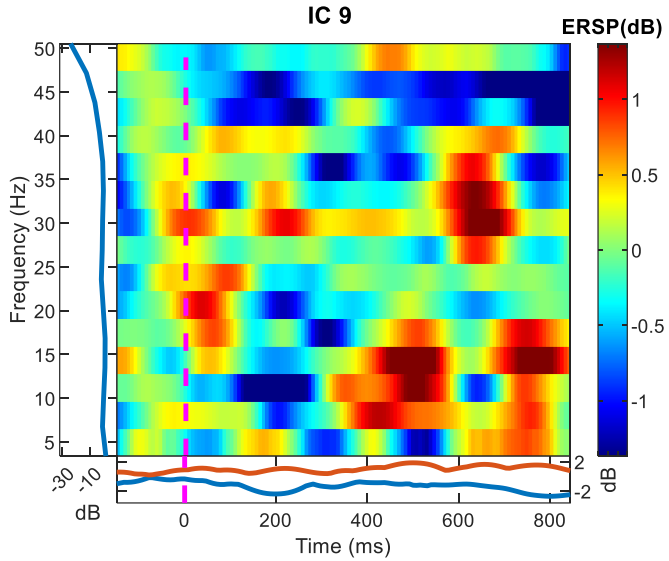
Frontal F8		
Time(ms)	Alpha	
[-50, 100]	desync	
[350, 550]	sync	

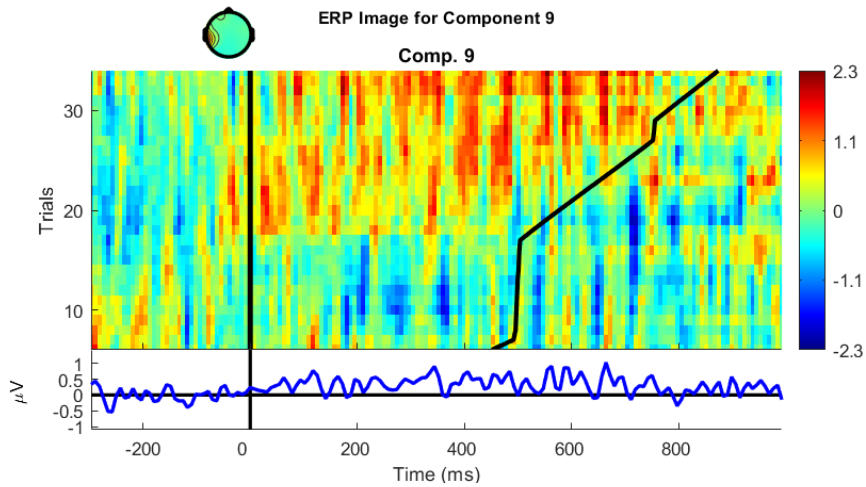




102_18

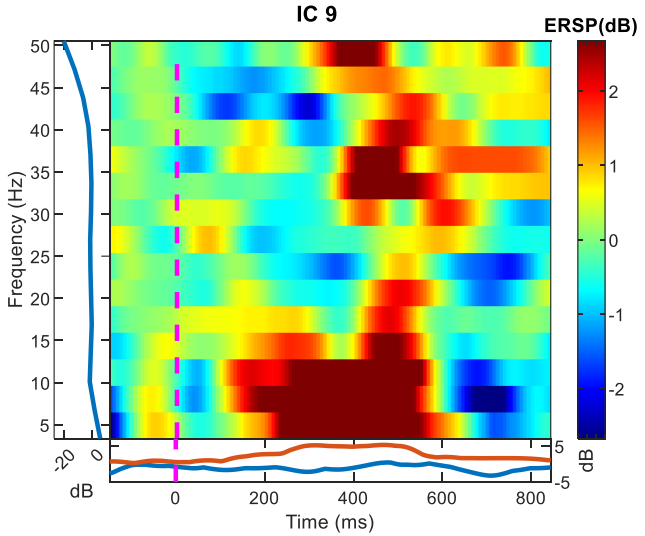
Frontal FC5		
Time(ms)	Alpha	
[-50, 100]	desync	
[350, 550]	sync	

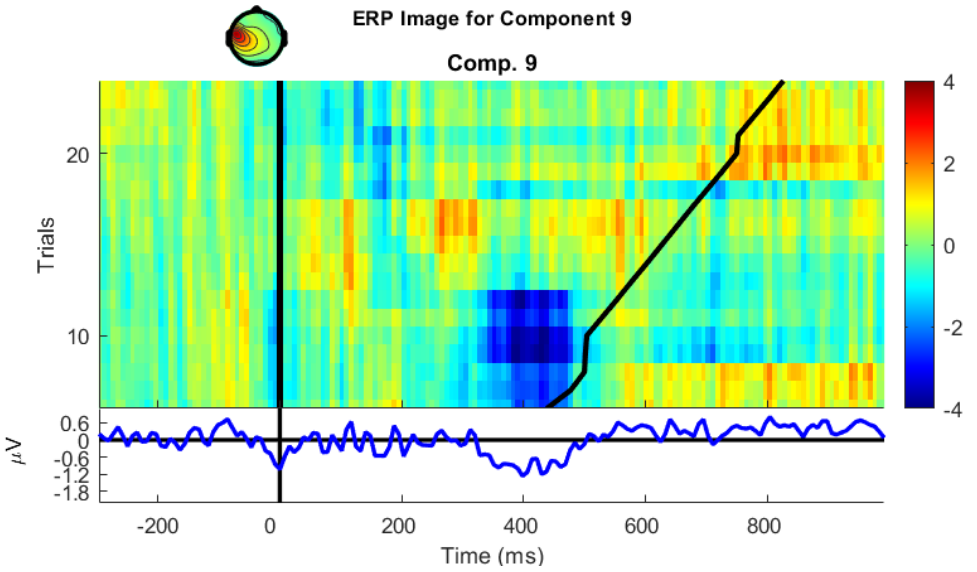




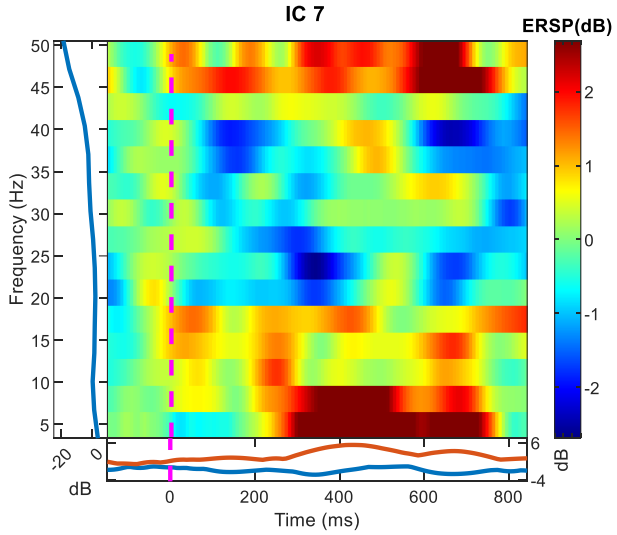
102_19

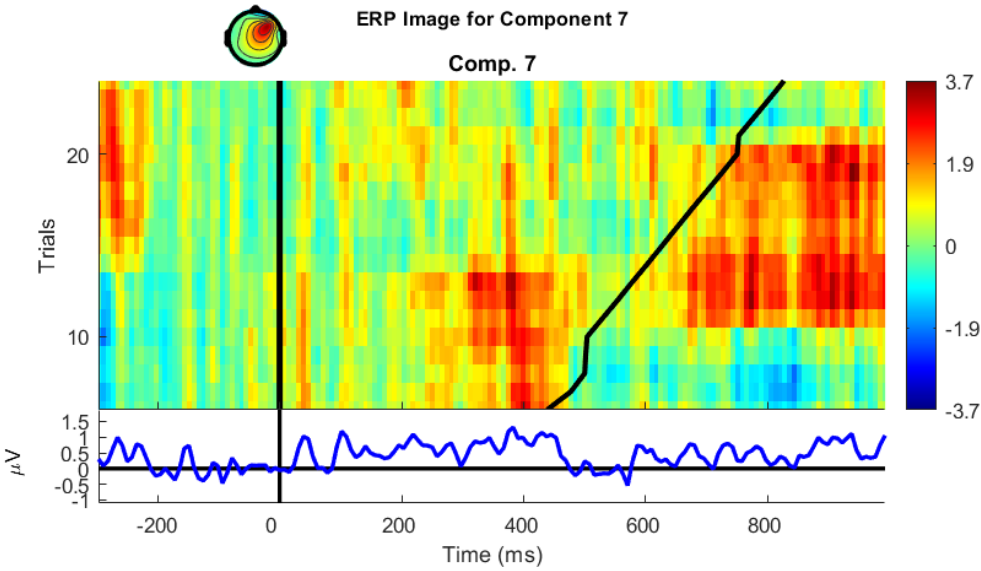
Frontal FC5		
Time(ms)	Alpha	
[-50, 100]	desync	
[300, 500]	sync	





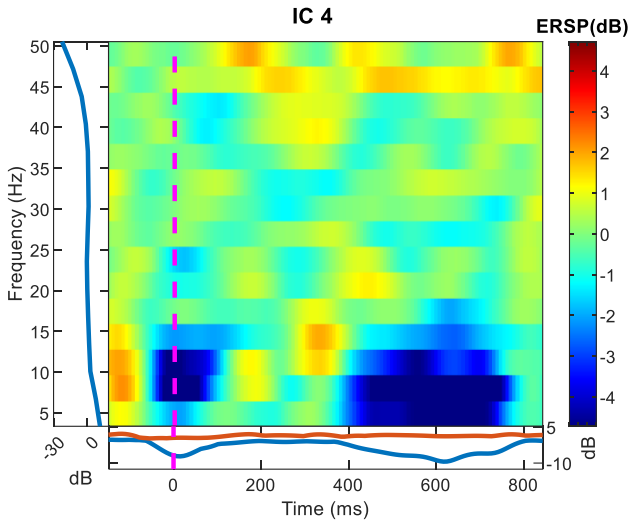
Frontal F4		
Time(ms)	Alpha	
[-50, 100]	desync	
[300, 500]	sync	

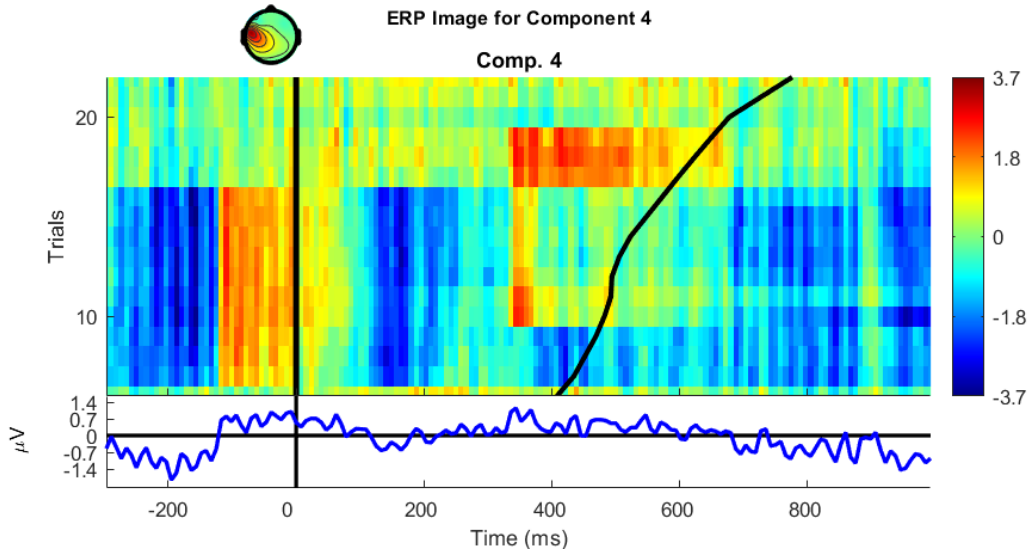




102_21

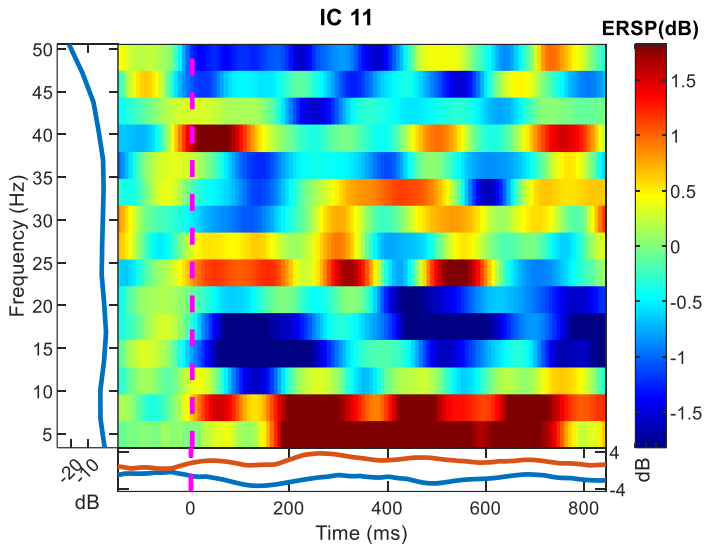
Frontal FC5		
Time(ms)	Alpha	
[-50, 100]	desync	
[250, 400]	sync	

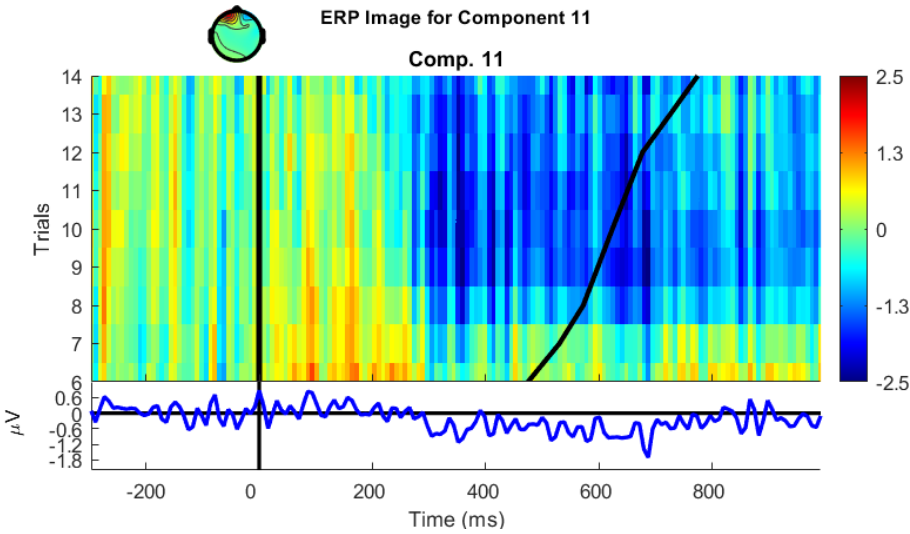




102_23

Frontal AF3		
Time(ms)	Alpha	
[-50, 100]	desync	
[400, 600]	sync	





102_24

Frontal FC5		
Time(ms)	Alpha	
[-50, 100]	desync	
[410, 700]	sync