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

Subject 119

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).

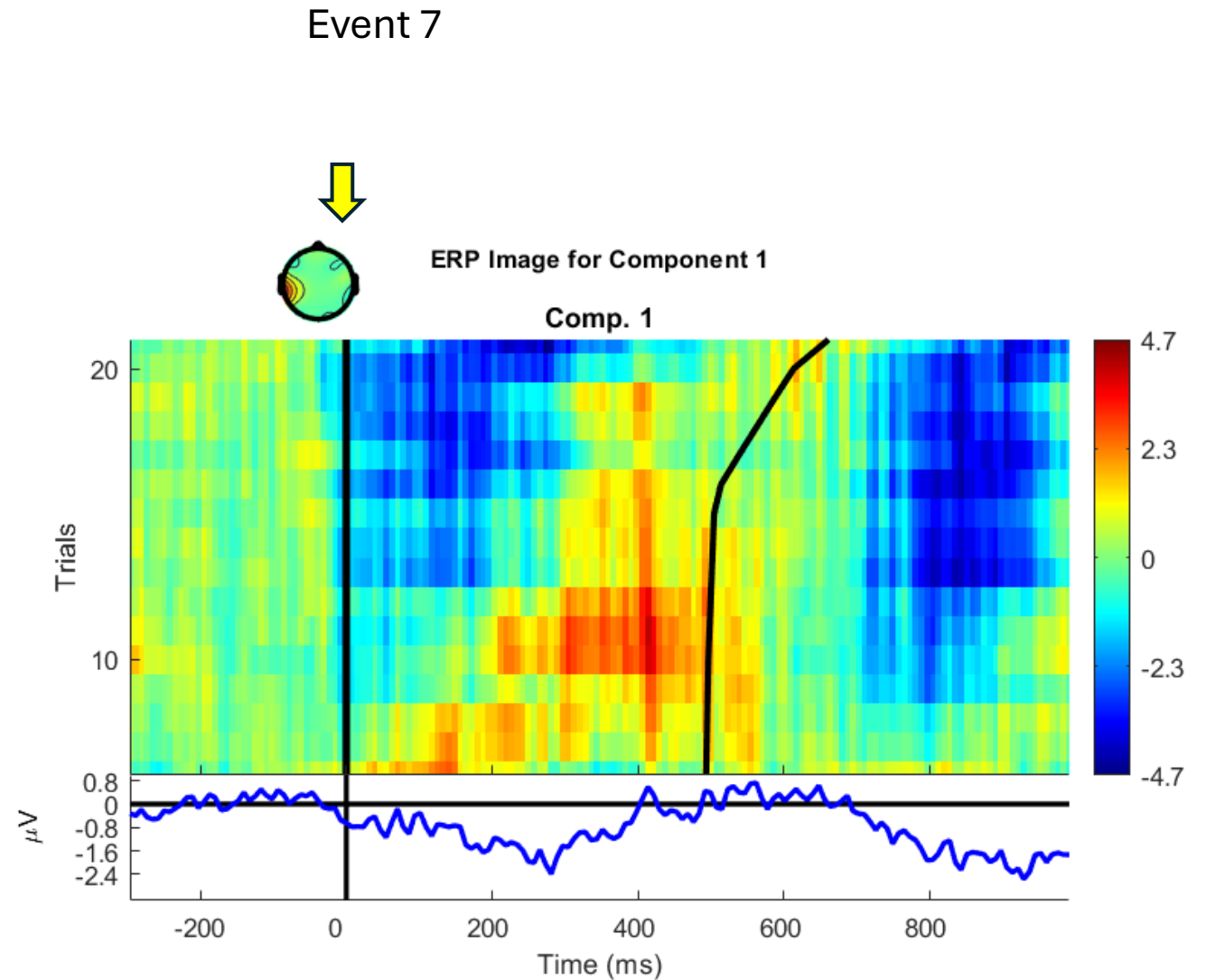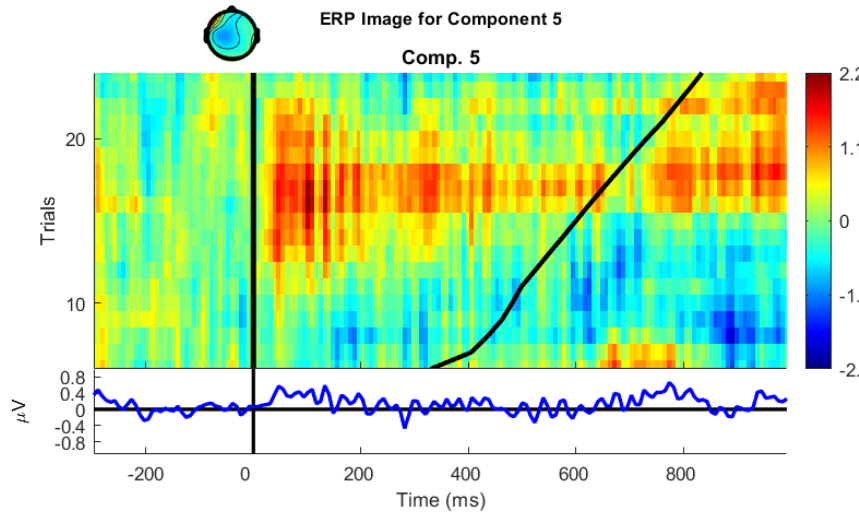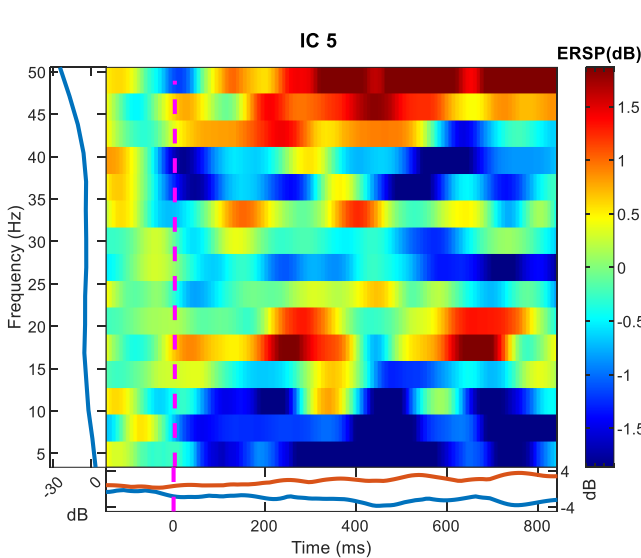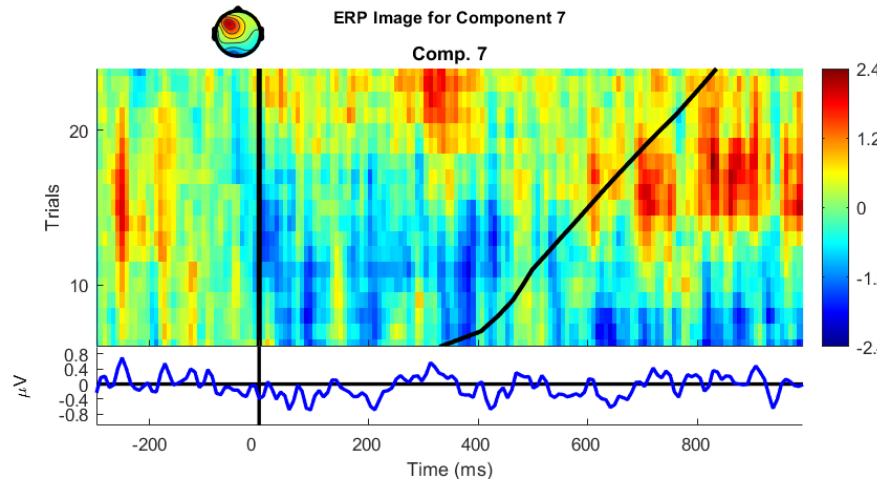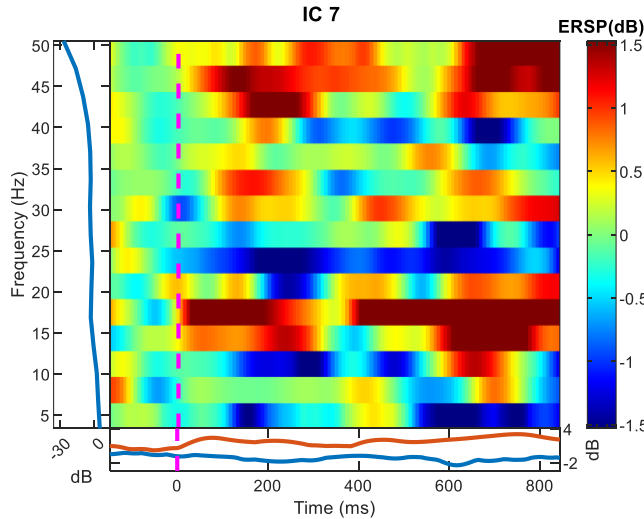- Corrects the baseline by subtracting the -290 to 0 ms mean

Event 7

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
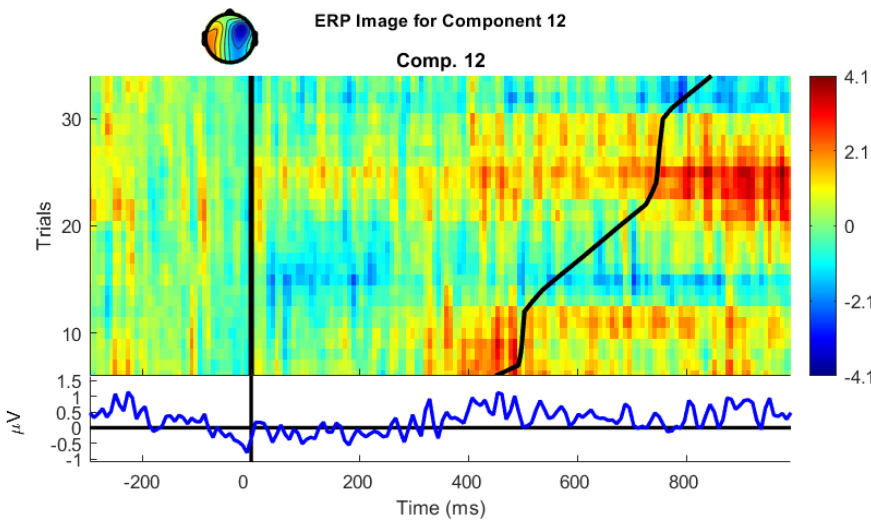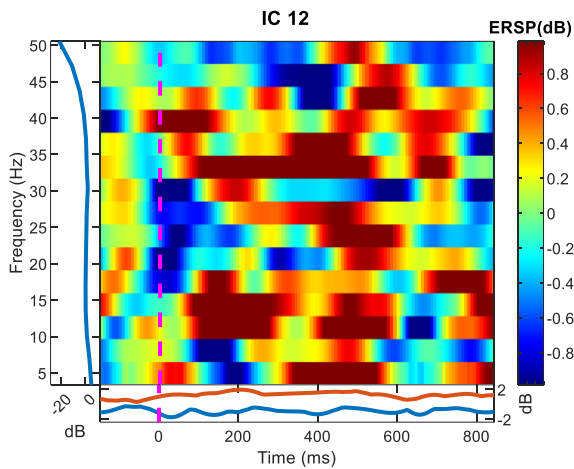
119_1

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

IC 5

ERSP(dB)

ERP Image for Component 5
Comp. 5

Frontal F3		
Time(ms)	Alpha	
[0, 50]	desync	
[150, 350]	sync	

IC 7

ERSP(dB)

ERP Image for Component 7
Comp. 7

119_3

Frontal F4		
Time(ms)	Alpha	
[0, 50]	desync	
[150, 250]	sync	

IC 12

ERP Image for Component 12

Comp. 12

119_5

Frontal FC5		
Time(ms)	Alpha	
[0, 50]	desync	
[100, 250]	sync	

IC 8

ERP Image for Component 8

Comp. 8

119_10
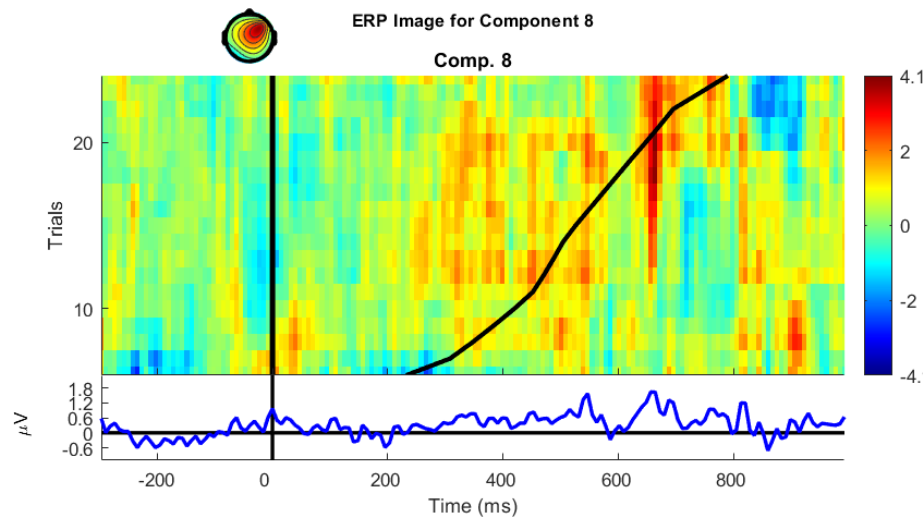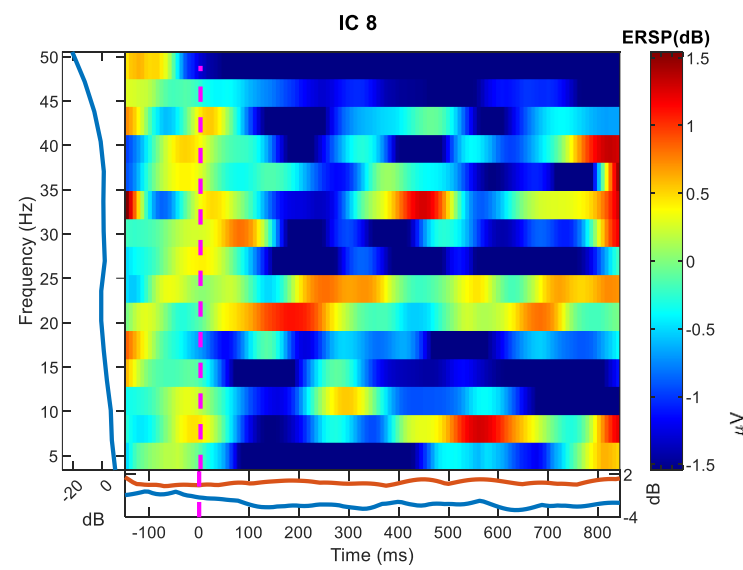
Frontal F7		
Time(ms)	Alpha	
[0, 200]	sync	
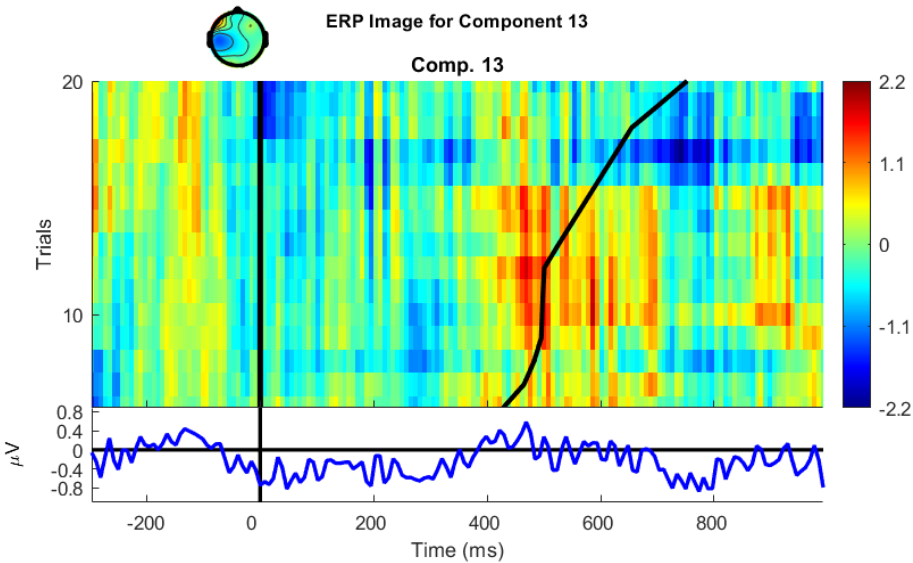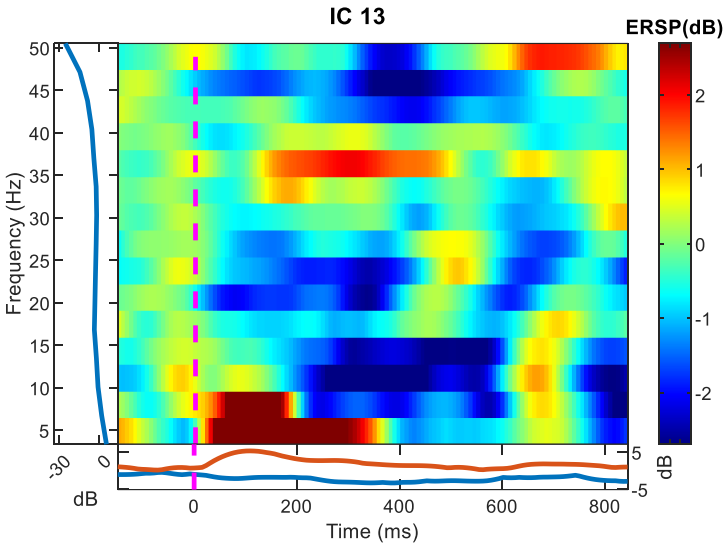
Frontal FC6		
Time(ms)	Alpha	
[0, 50]	desync	
[150, 350]	sync	
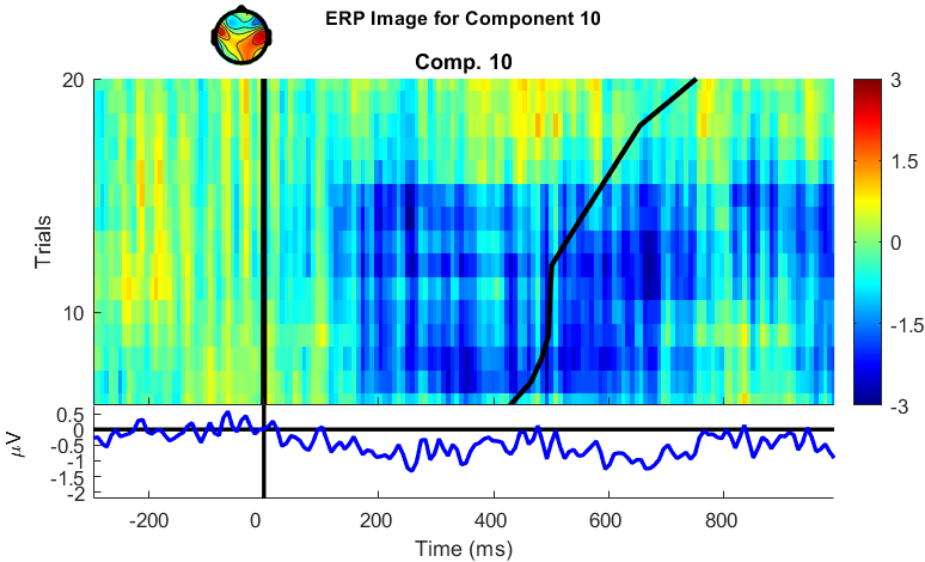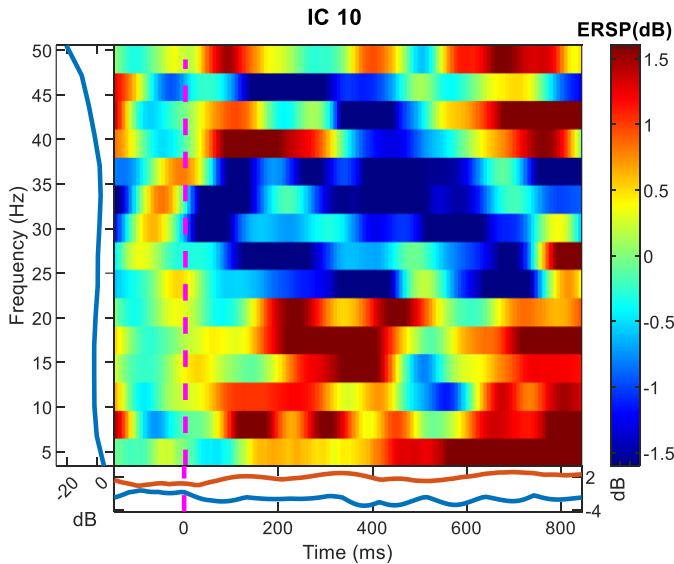
119_12

Frontal F3		
Time(ms)	Alpha	
[0, 50]	desync	
[190, 350]	sync	

IC 14

ERSP(dB)

ERP Image for Component 14

Comp. 14

Frontal F8		
Time(ms)	Alpha	
[0, 50]	desync	
[190, 350]	sync	

IC 8

ERSP(dB)

ERP Image for Component 8

Comp. 8

119_17
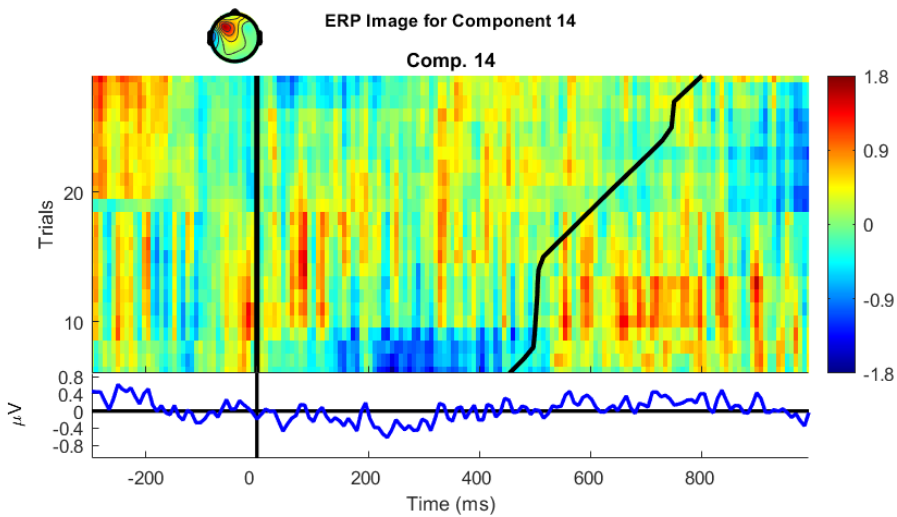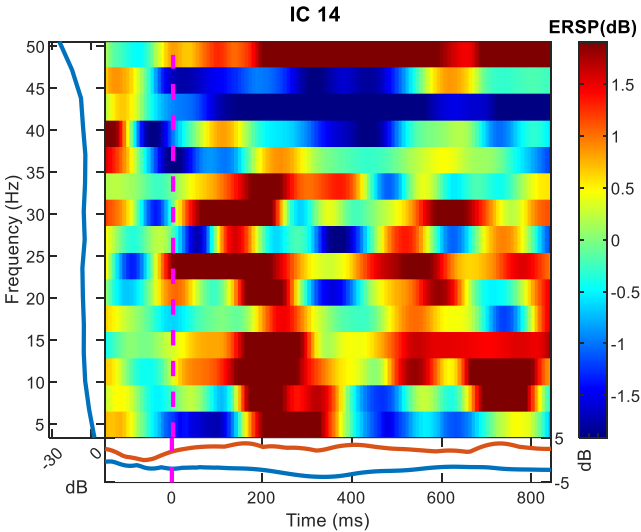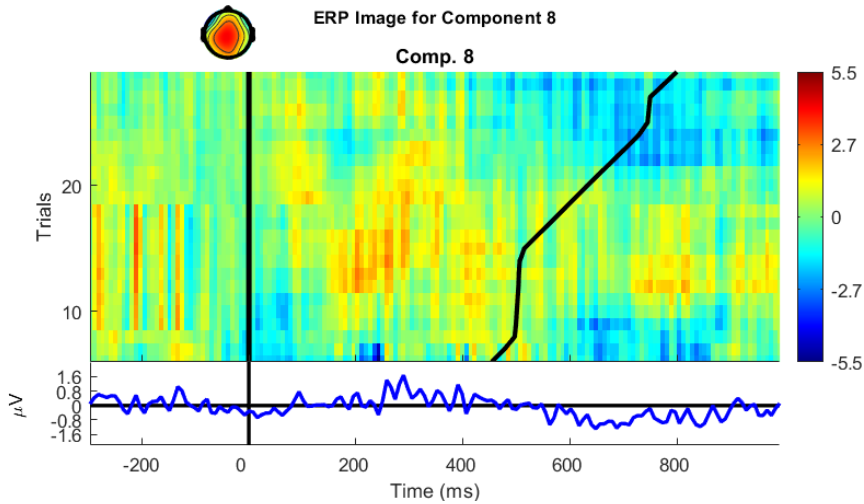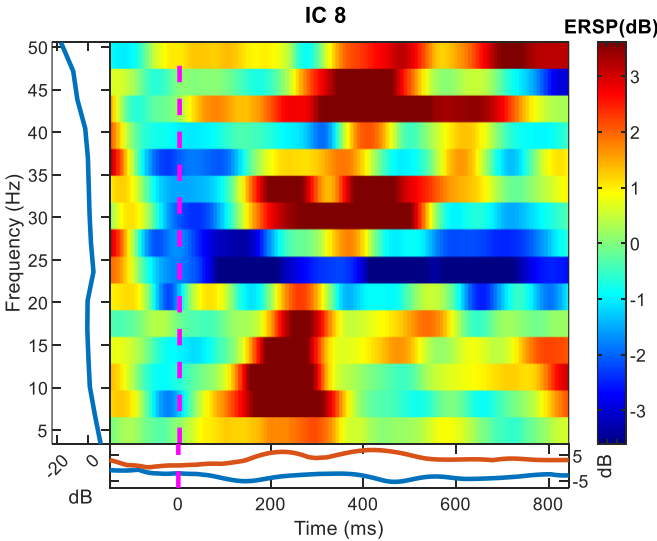
Frontal AF3		
Time(ms)	Alpha	
[0, 50]	desync	
[200, 400]	sync	
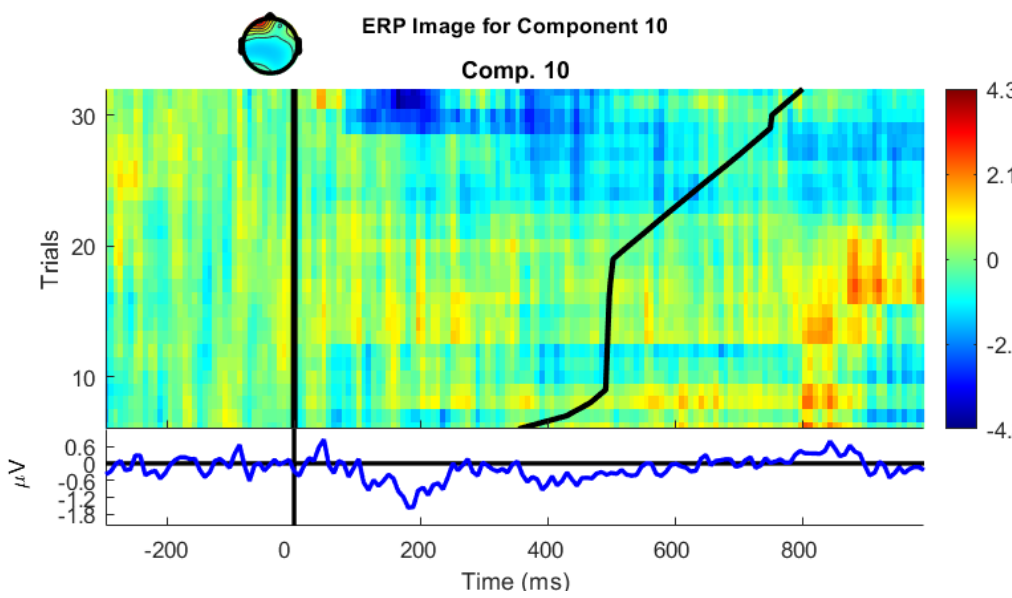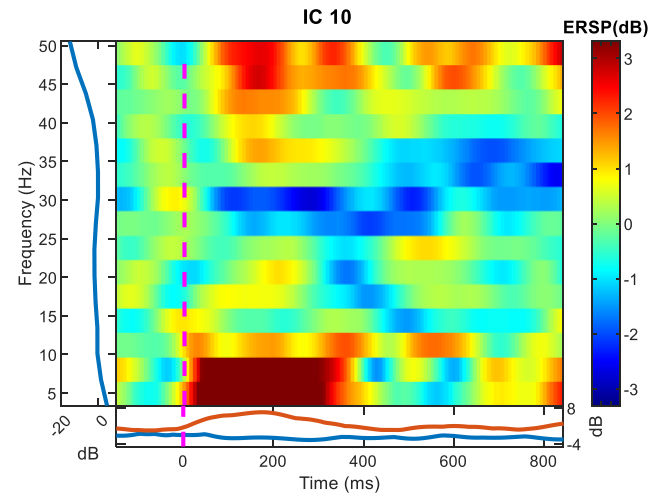
IC 10

ERSP(dB)

ERP Image for Component 10

Comp. 10

119_18

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

IC 14

ERP Image for Component 14

119_18

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

IC 14

ERP Image for Component 14

119_20
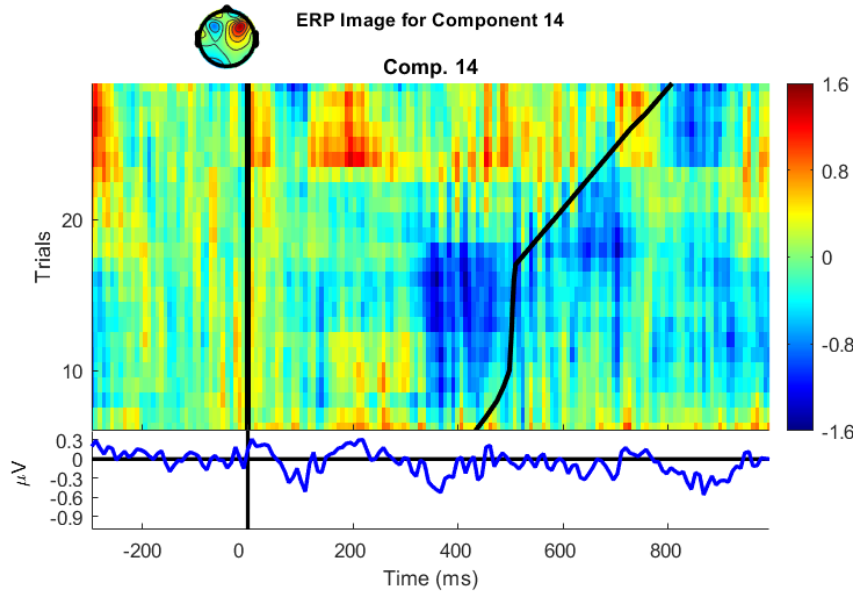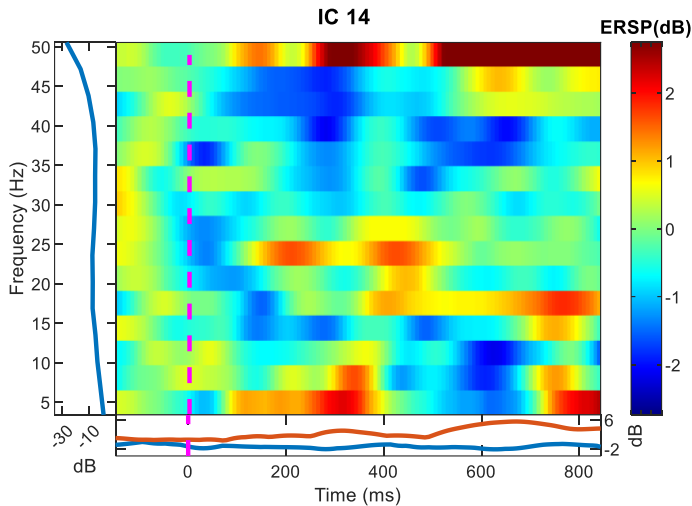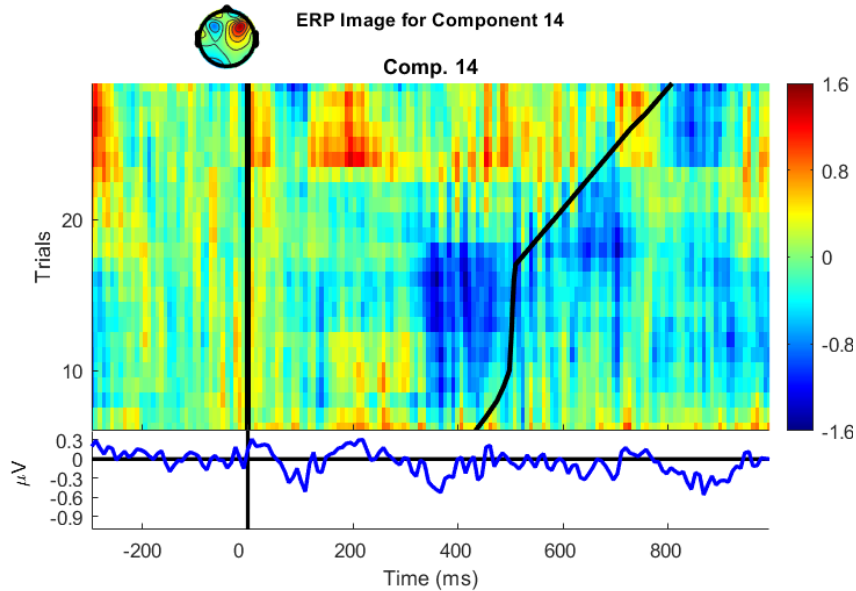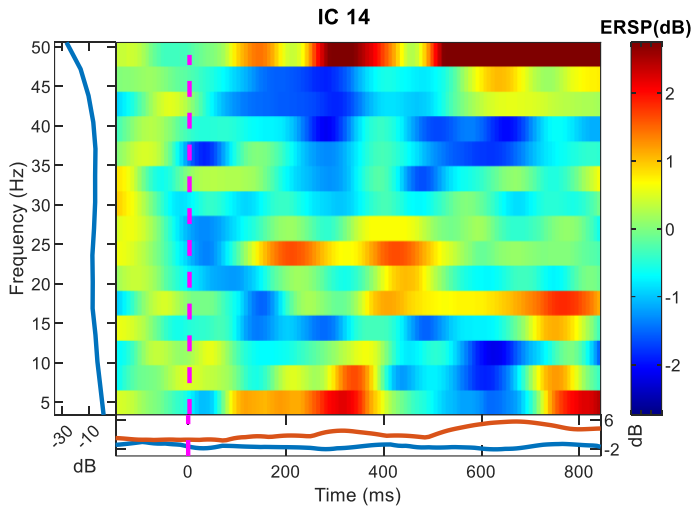
Frontal F4		
Time(ms)	Alpha	
[0, 50]	desync	
[150, 210]	sync	

IC 7

ERP Image for Component 7

119_23
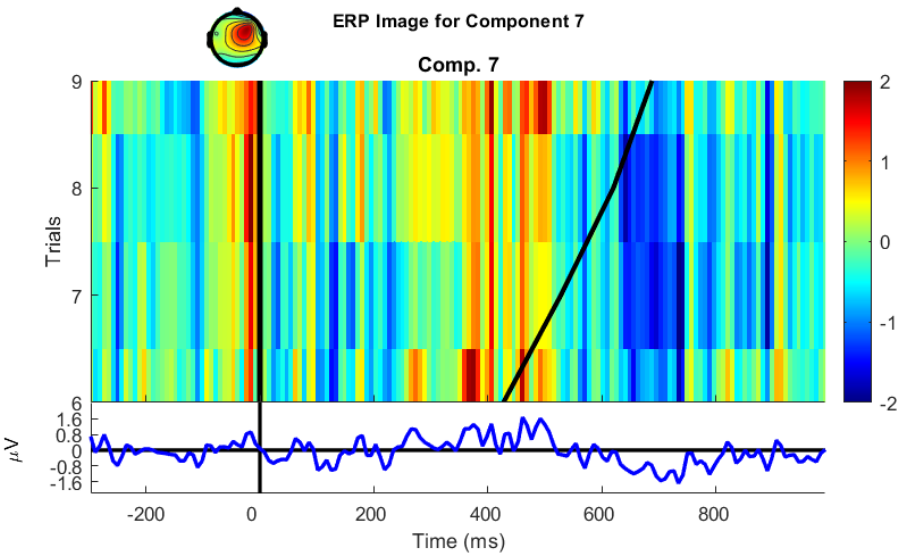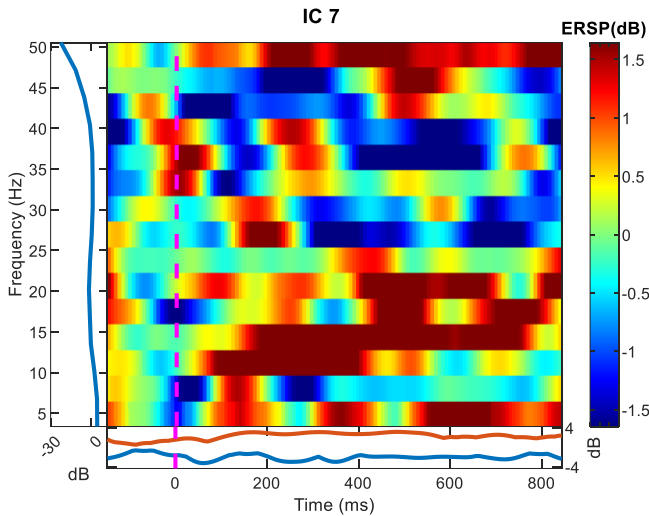
Frontal F8		
Time(ms)	Alpha	
[0, 50]	desync	
[100, 220]	sync	

IC 6

ERP Image for Component 6

Comp. 6
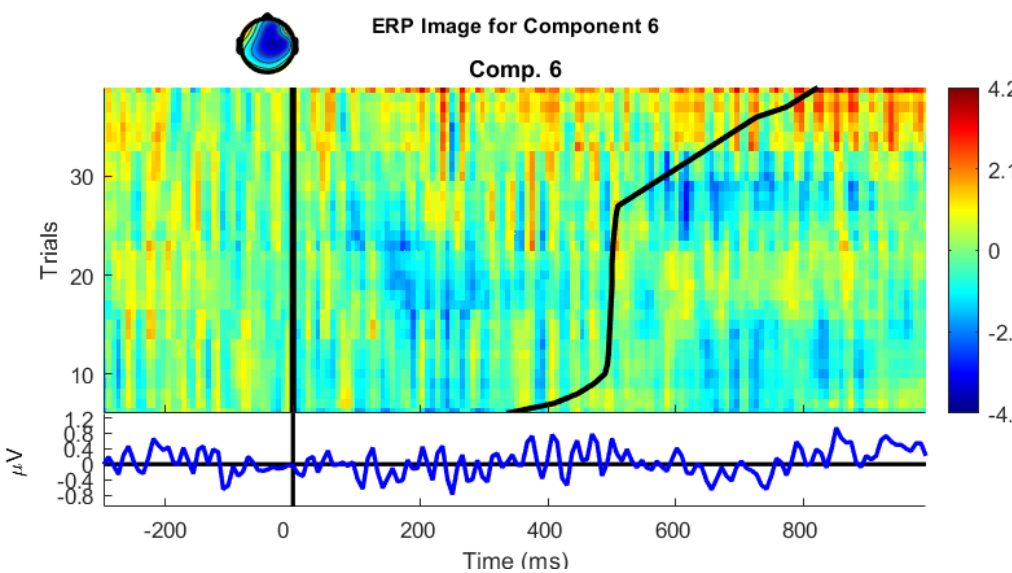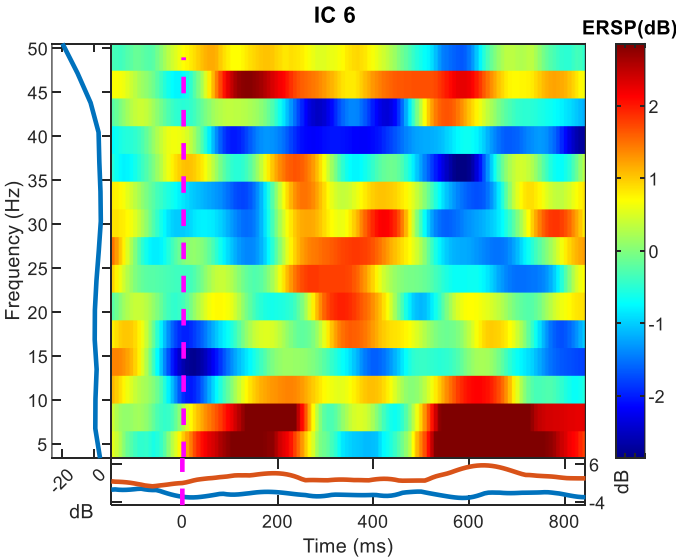
===== All Regions Summary =====
Region: Left-Frontal
Components processed: 5
p-value (Early vs Middle): 0.00087085 (decrease)
p-value (Middle vs Later): 1.4054137e-13 (increase)
p-value (Early vs Later): 0.00025836838 (increase)

Region: Right-Frontal
Components processed: 7
p-value (Early vs Middle): 0.094242 (decrease)
p-value (Middle vs Later): 0.13439506 (increase)
p-value (Early vs Later): 0.00061772443 (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