

Client Information

DOB: 1966 (54 y/old)

Gender: Female

Language(s): English (native), French

Occupation: ACME Engineer

Education: MSc.

Reason for consult: N/A

Date of Injury: N/A

Handedness: Right

Scan Comparison



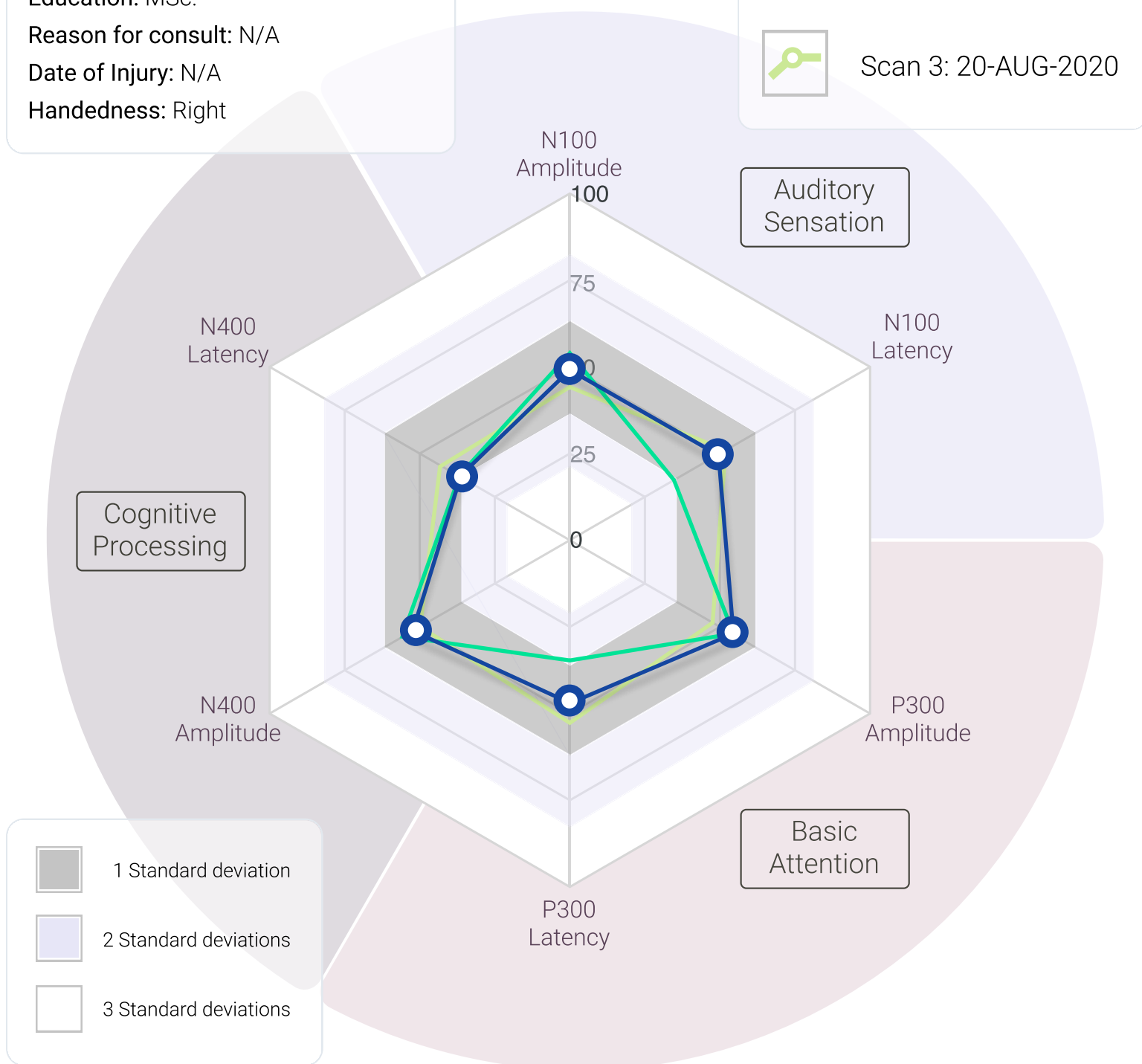
Scan 1: 01-AUG-2020



Scan 2: 10-AUG-2020



Scan 3: 20-AUG-2020



Scan Comparison

Scan 1: 01-AUG-2020

Lifestyle Factors



Coffee



Sleep



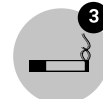
Medication



Alcohol



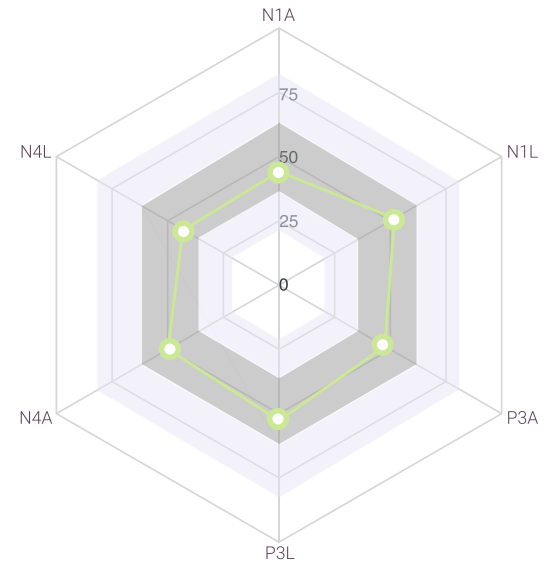
Psycho-actives



Nicotine

Prior to scan:

(3) cups of coffee.
(3) hours of sleep at night.
(3) metformin.
(3) alcoholic beverages
(3) marijuana (oral).
(3) cigarettes.



Scan 2: 10-AUG-2020

Lifestyle Factors



Coffee



Sleep



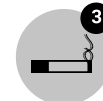
Medication



Alcohol



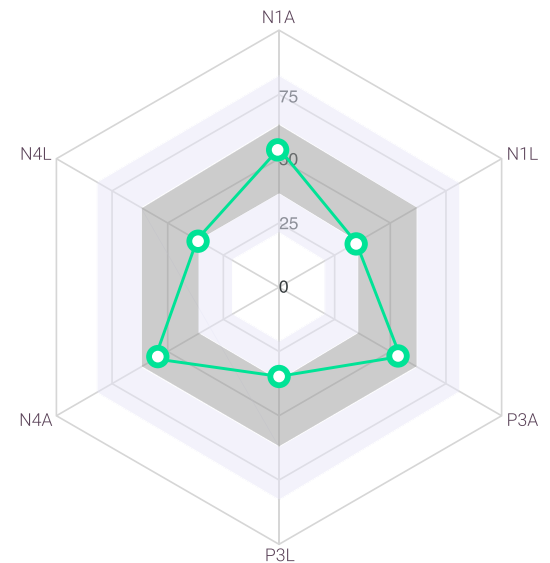
Psycho-actives



Nicotine

Prior to scan:

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(3) hours of sleep at night.
(3) metformin.
(3) alcoholic beverages
(3) marijuana (oral).
(3) cigarettes.



Scan 3: 20-AUG-2020

Lifestyle Factors



Coffee



Sleep



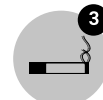
Medication



Alcohol



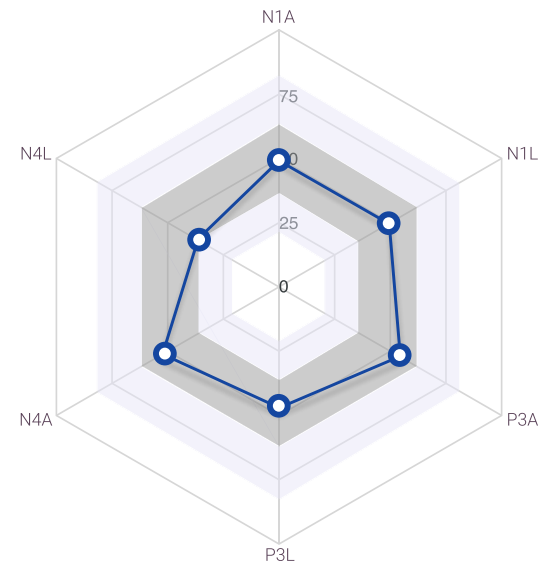
Psycho-actives



Nicotine

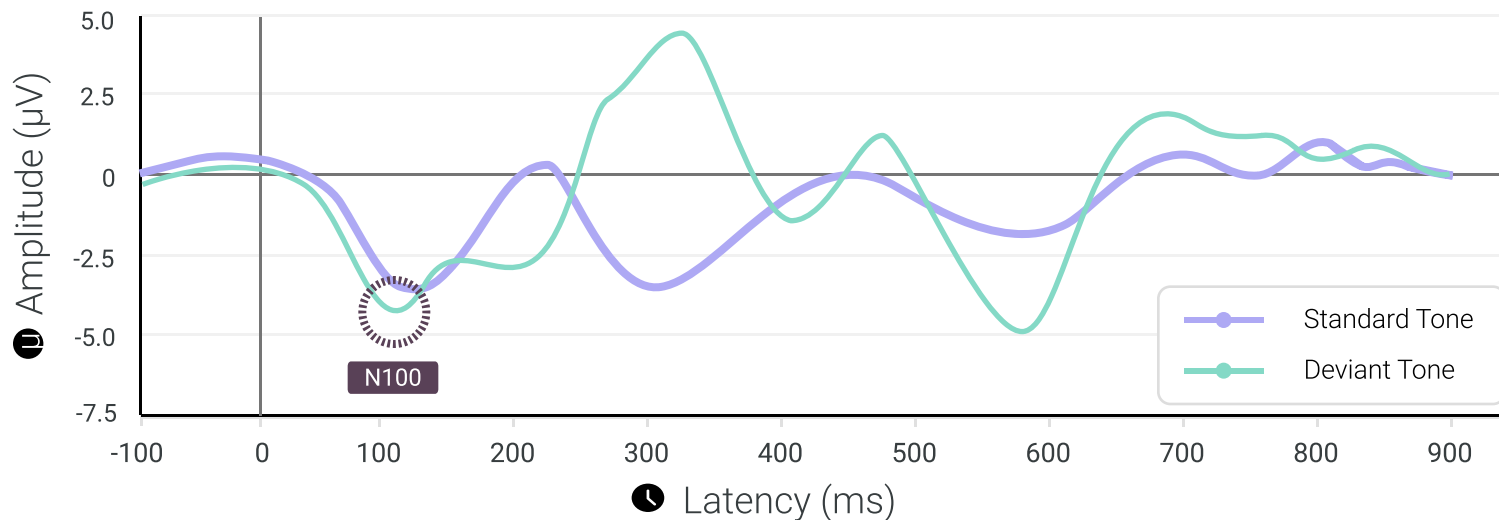
Prior to scan:

(3) cups of coffee.
(3) hours of sleep at night.
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(3) marijuana (oral).
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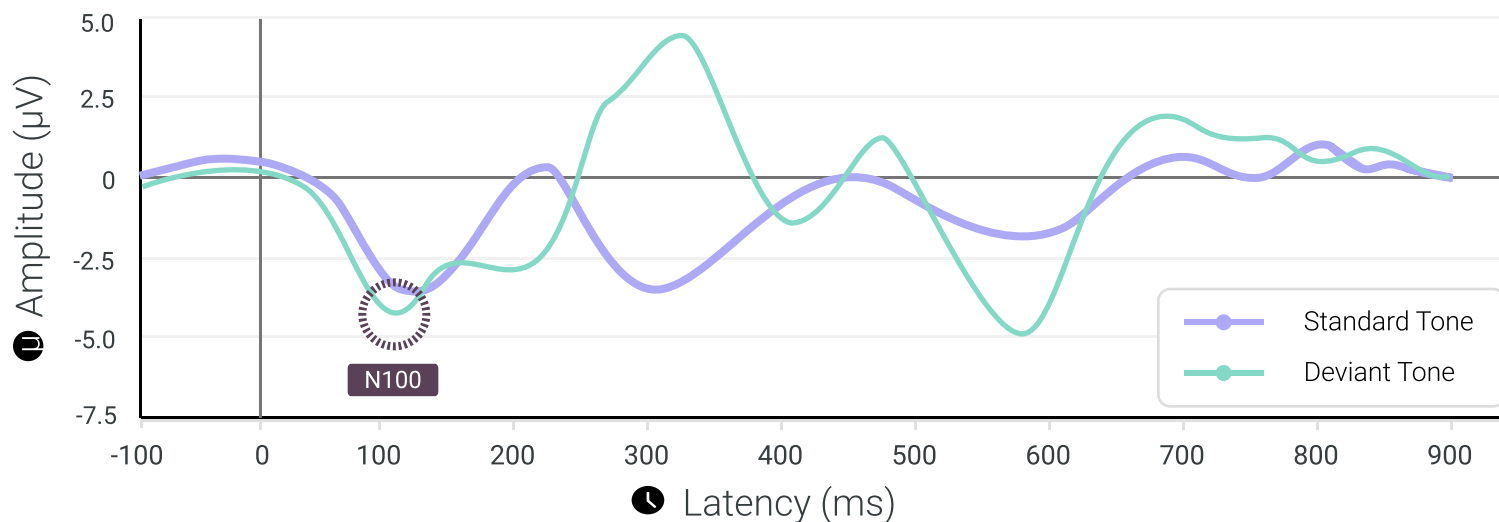


N100 Waveform History

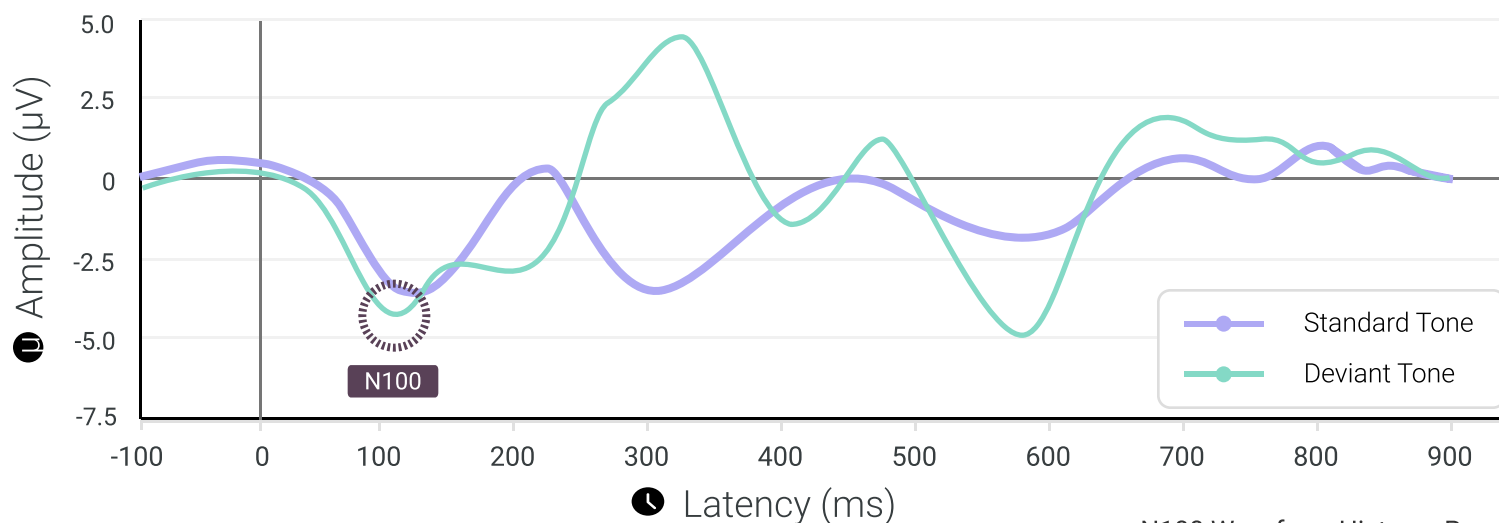
Scan 1 : 01-AUG-2020



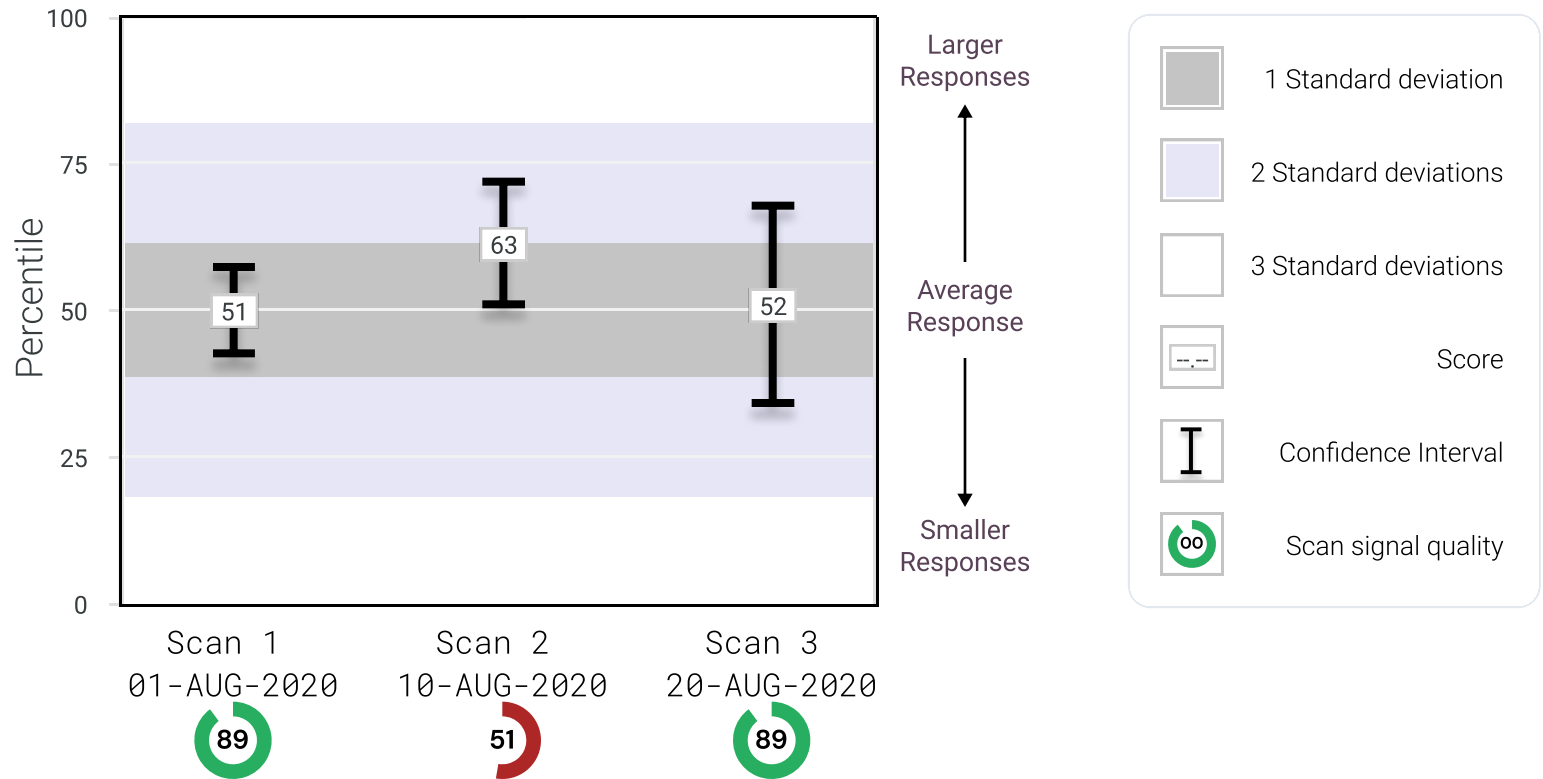
Scan 2 : 10-AUG-2020



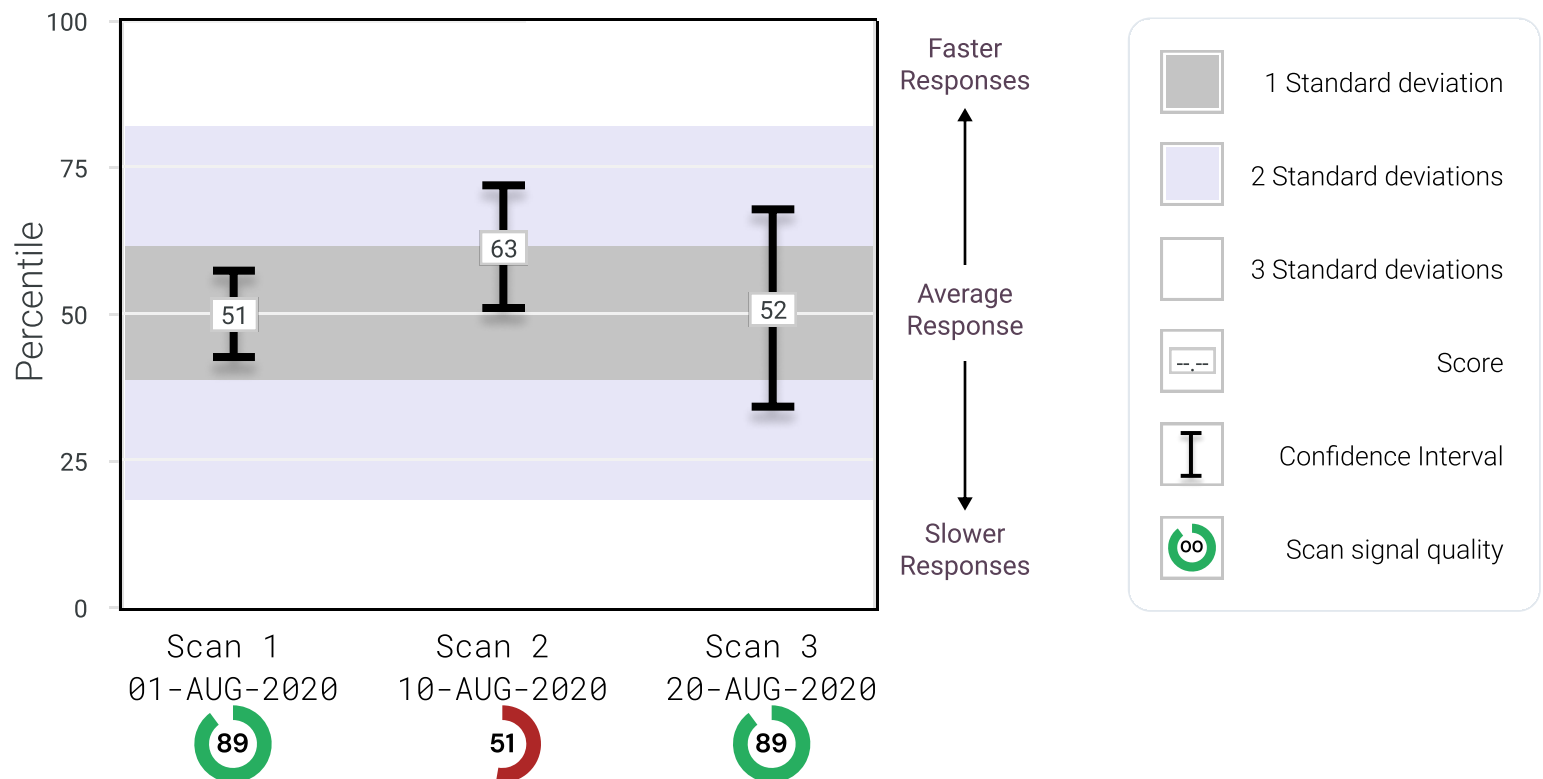
Scan 3 : 20-AUG-2020



N100 Amplitude History

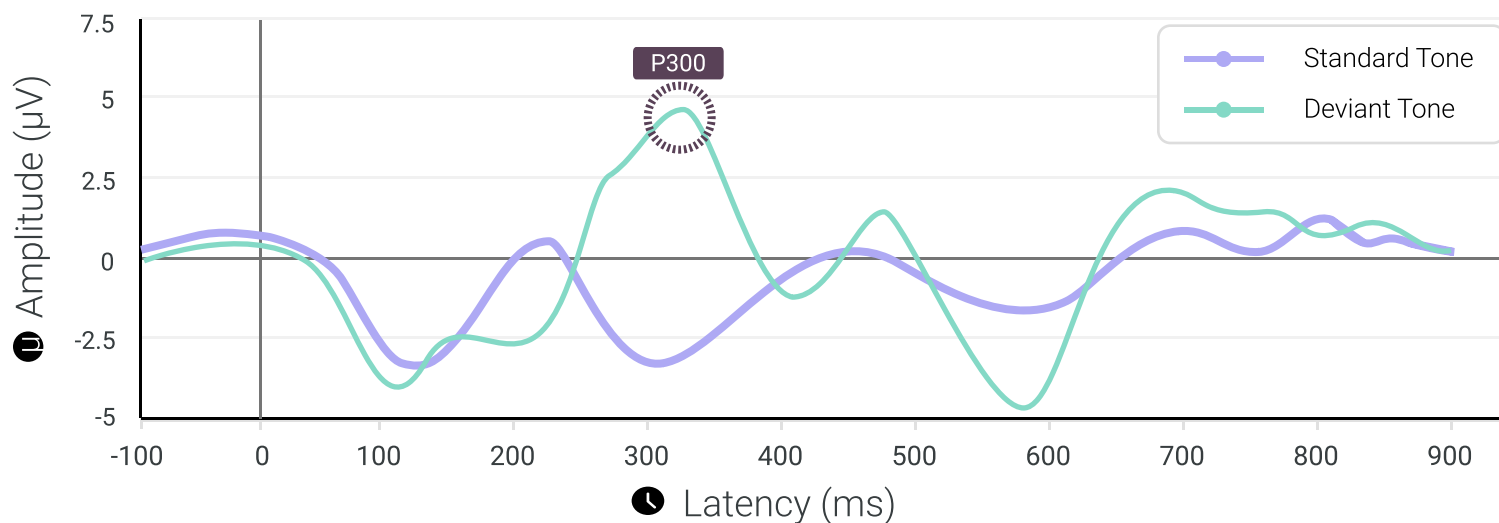


N100 Latency History

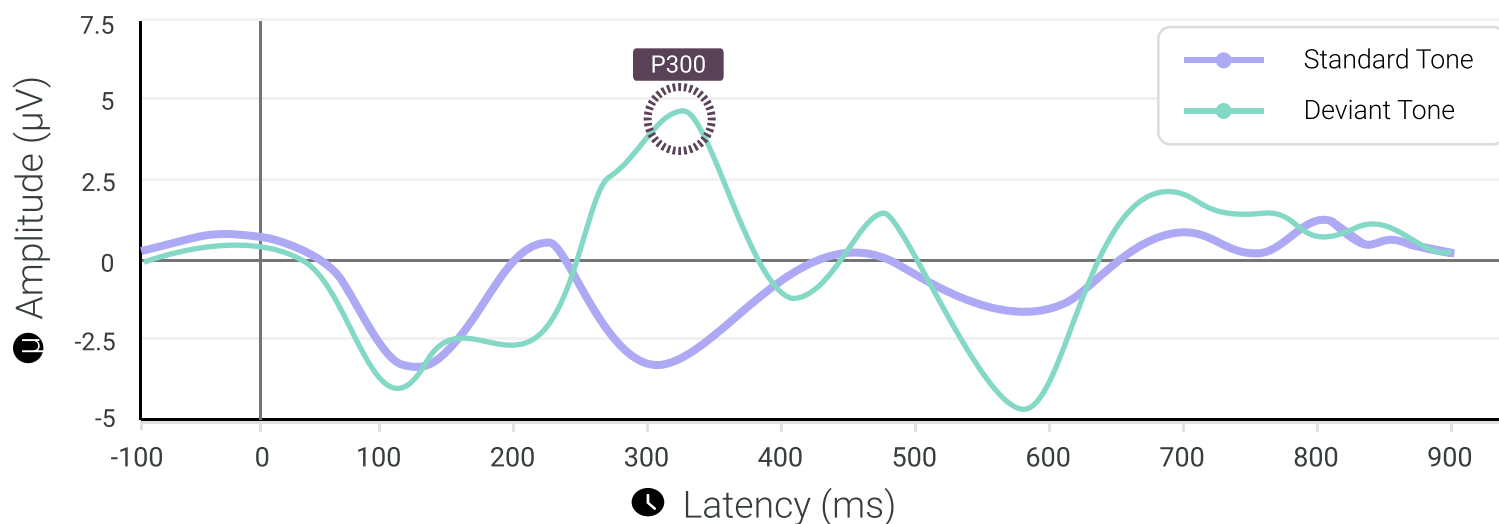


P300 Waveform History

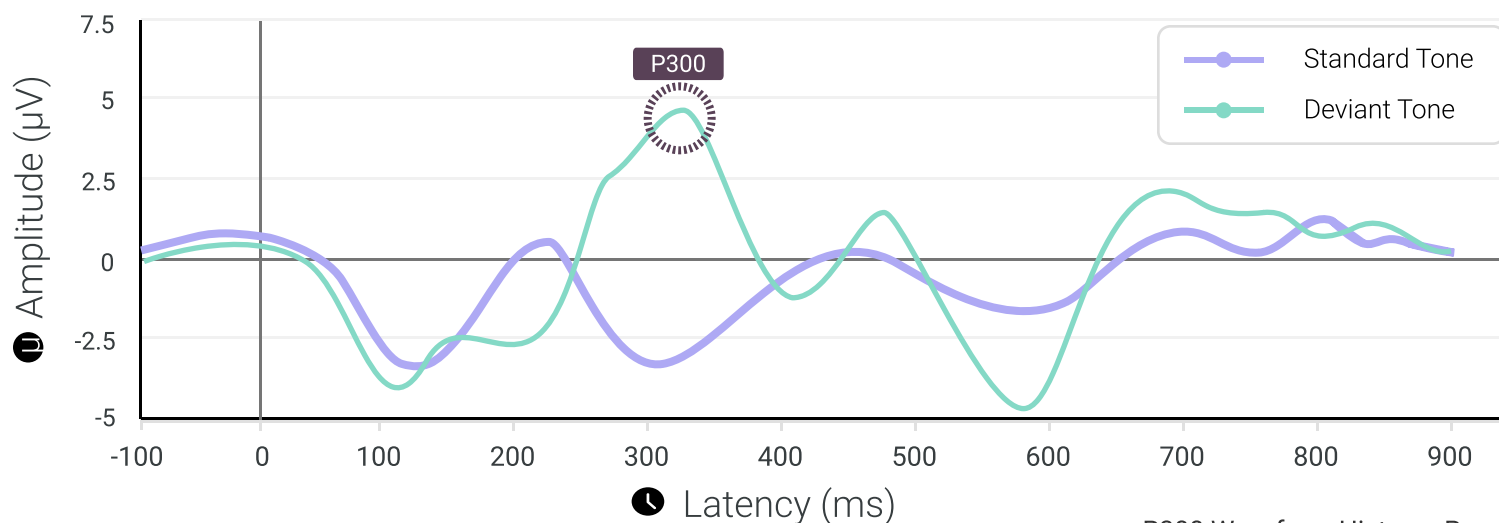
Scan 1 : 01-AUG-2020



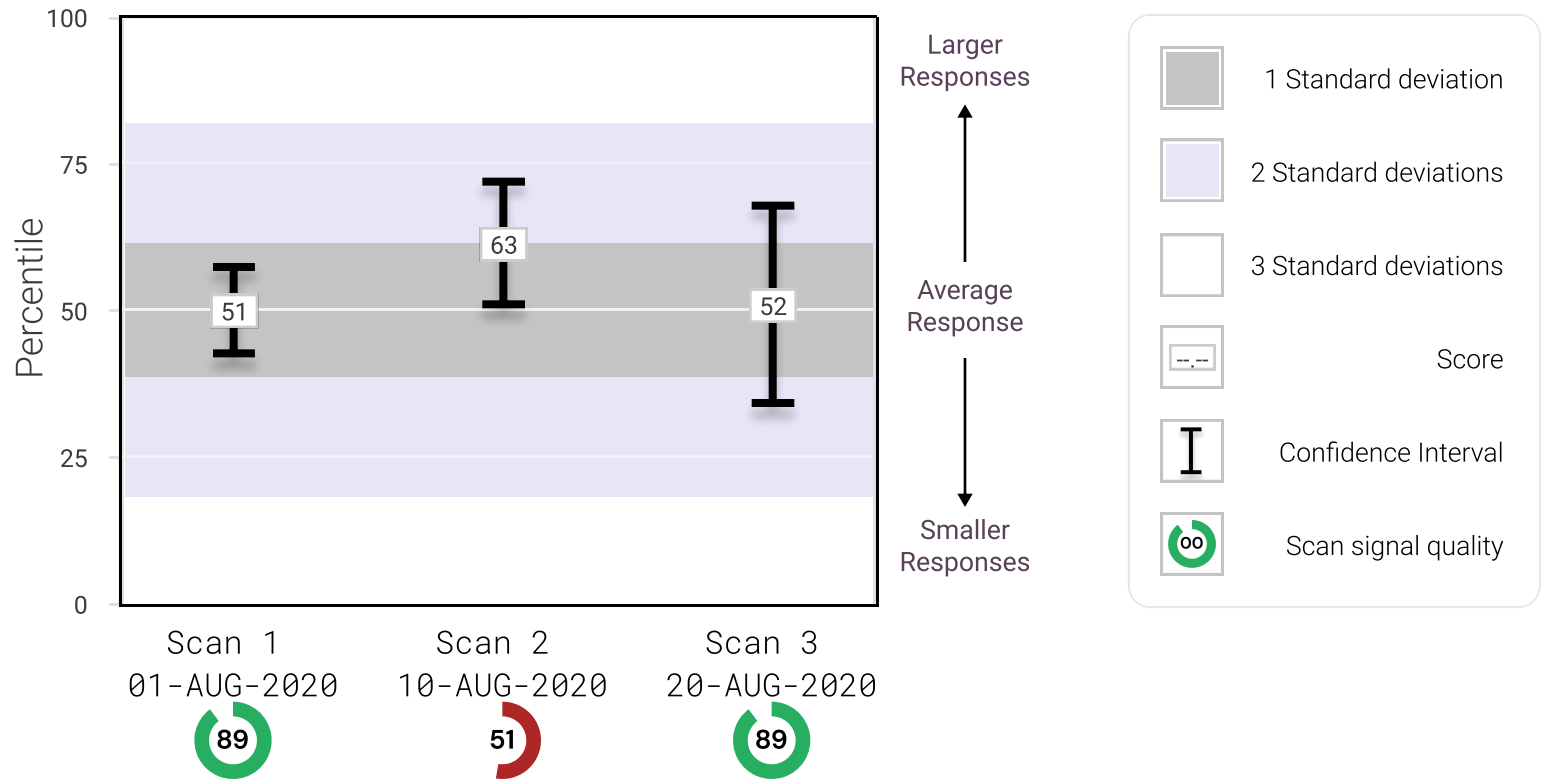
Scan 2 : 10-AUG-2020



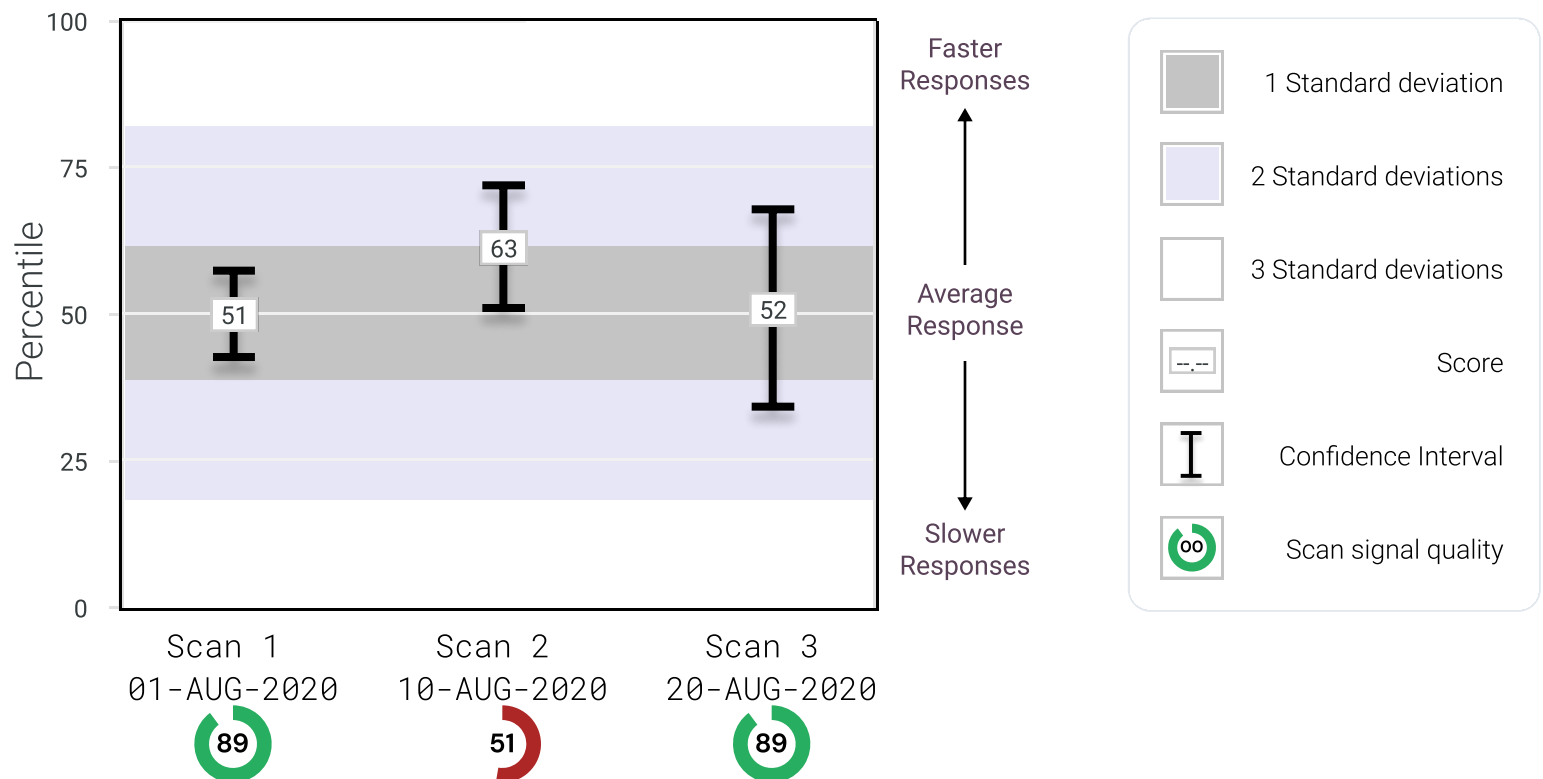
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P300 Amplitude History

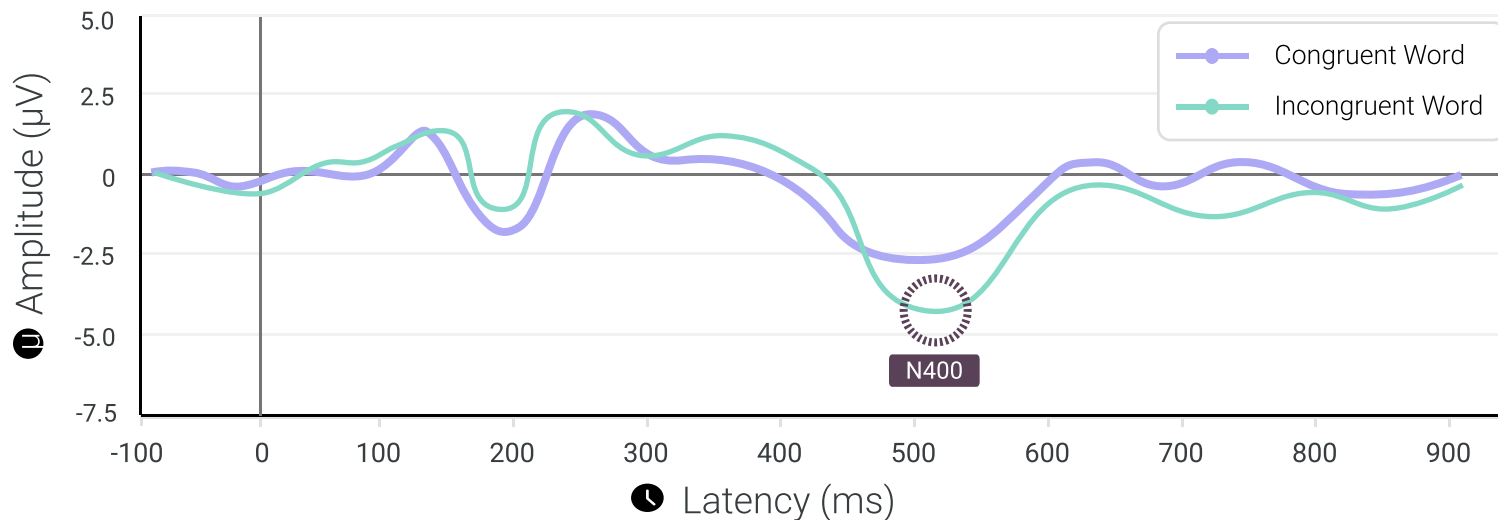


P300 Latency History

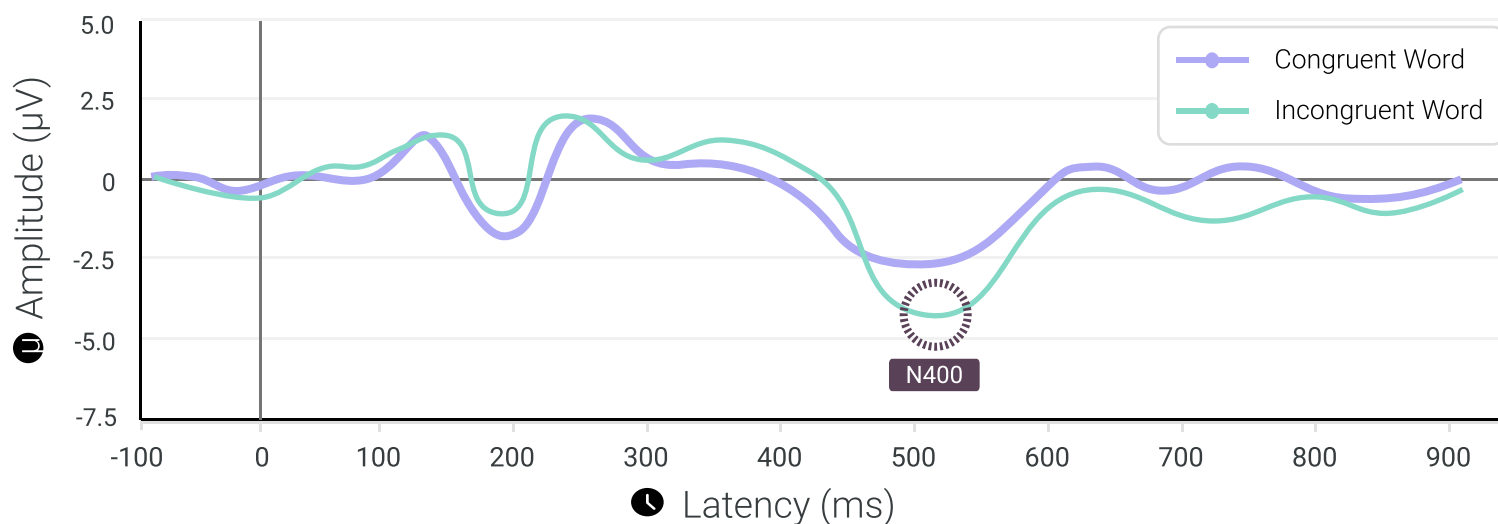


N400 Waveform History

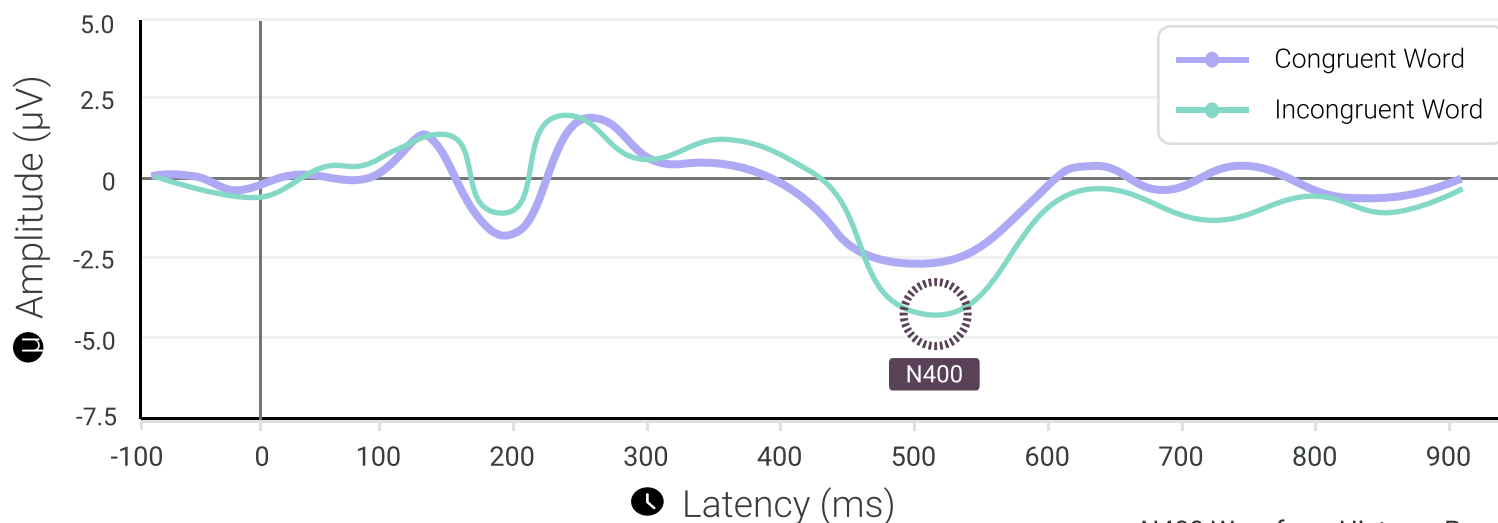
Scan 1 : 01-AUG-2020



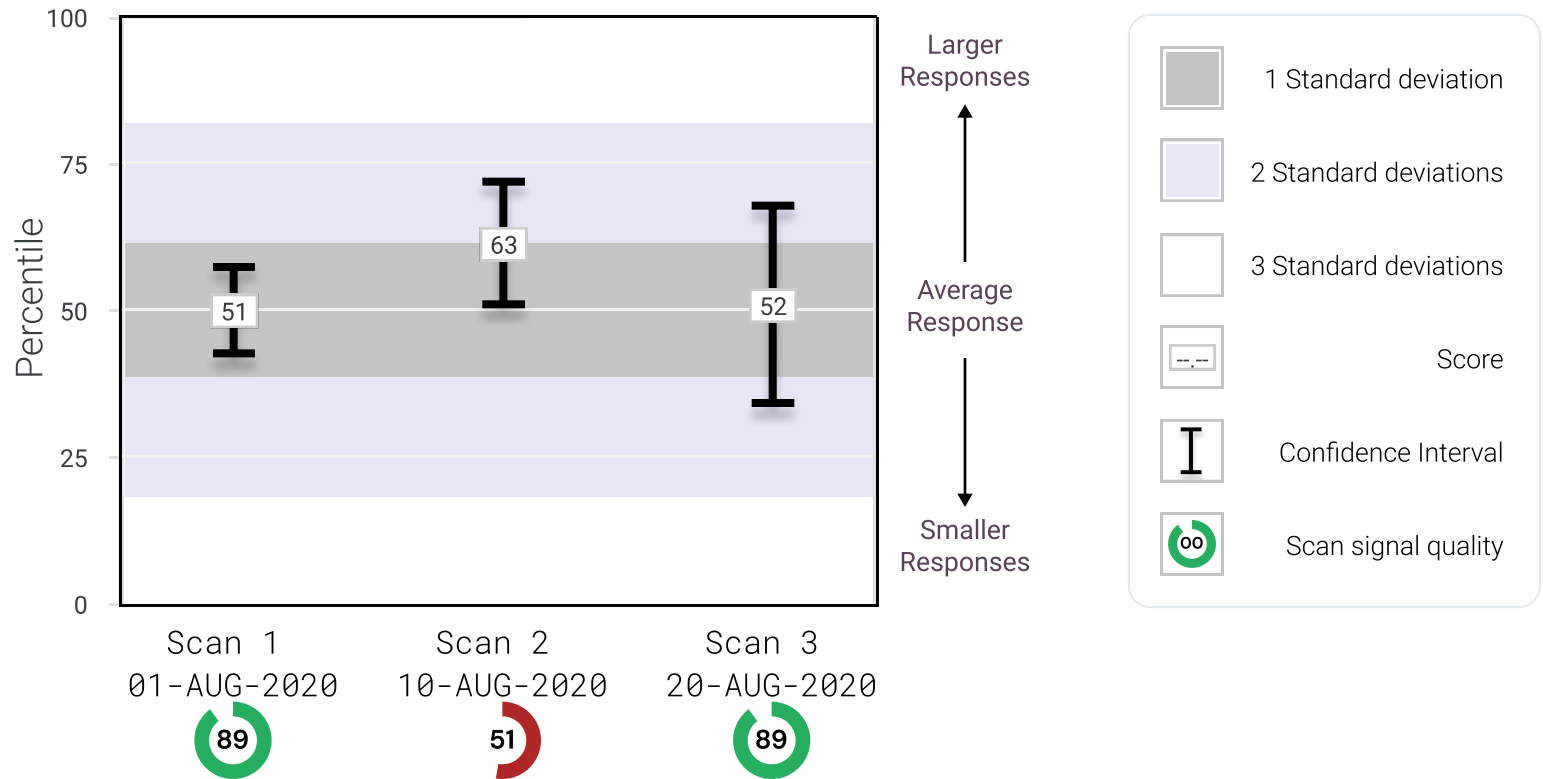
Scan 2 : 10-AUG-2020



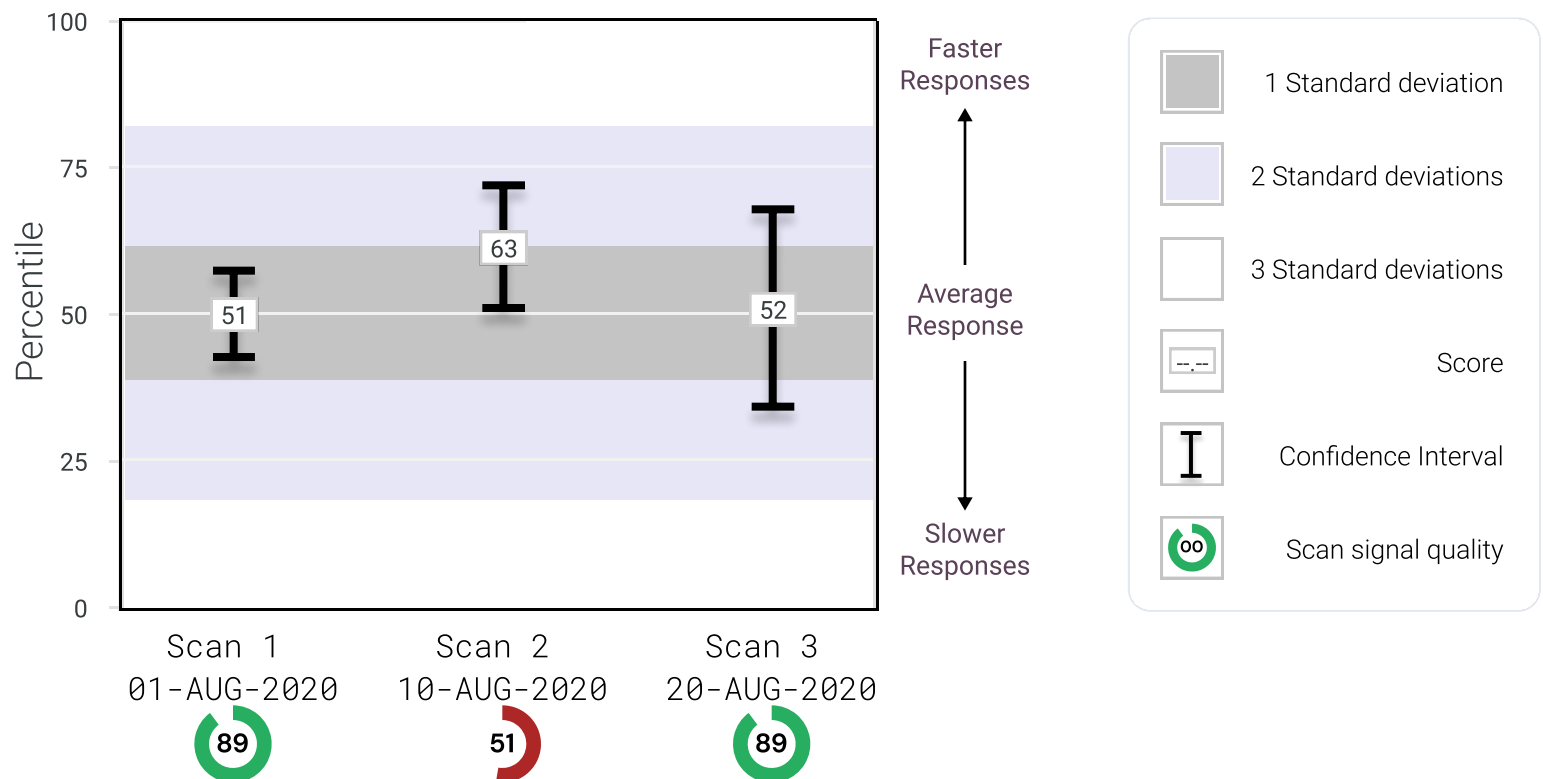
Scan 3 : 20-AUG-2020



N400 Amplitude History

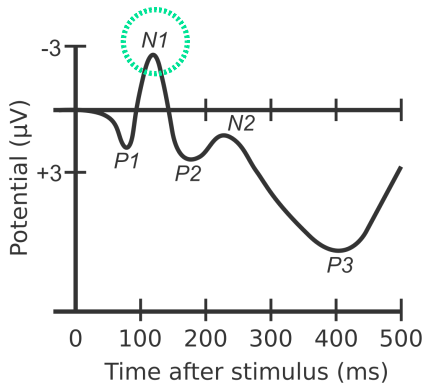


N400 Latency History



Glossary of terms

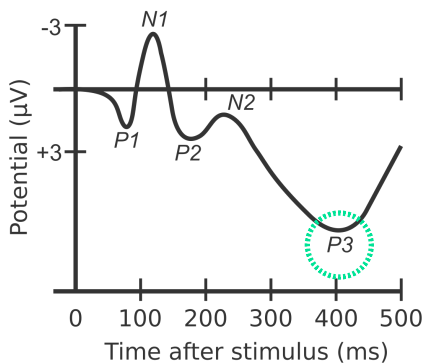
ERP Overview



N100: Auditory Sensation

Looking at reaction times and auditory sensation.

The N100 response is elicited by auditory tones and represented in a negative-going wave that typically peaks around 100ms after the tone, although the response may range anywhere between 80-200ms. The amplitude of the wave typically measures between 2-20 microvolts. The N100 represents an orienting response to sensory detection of the sound. The N100, when present, is a physiological representation that the sensory information has entered auditory processing systems of the brain.

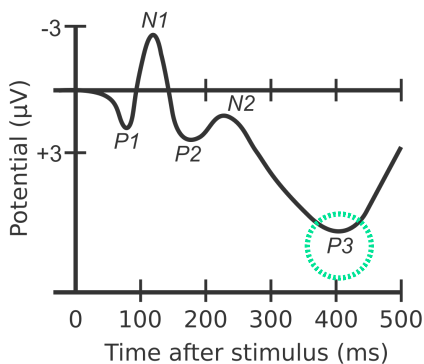


P300: Basic Attention

Destroy the blinds. Annoy the old grumpy cat, start a fight and then retreat to wash when i lose.

The P300 response is elicited by deviant tones embedded in a sequence of expected tones. The response is represented in a positive-going wave that peaks at 300ms after a deviant tone, although it may have a latency anywhere between 250 – 500ms and an amplitude between 2-40 microvolts. The response is sensitive to unpredictable events that require attention, contextual updating and memory processes. Higher latencies in the P300 are typically representative of delayed informational processing capacity.

It is worth noting that factors such as high coffee intake or lack of sleep can affect the P300 response and should be noted in the system at the time of the scan. Delayed information processing is known to be related to a number of conditions that are related to brain health. When a client without a prior diagnosis or known condition presents a P300 with a higher latency, further investigation into the client condition is recommended.



N400: Cognitive Processing

Looking at reaction times and auditory sensation.

The N400 response is elicited by presenting incongruent word pairs embedded in a sequence of congruent word pairs. The response is represented in a negative-going wave that typically peaks around 400ms after an unexpected word pair, although the response may range anywhere between 300-600ms. The amplitude of the wave typically measures between 1-10 microvolts.