

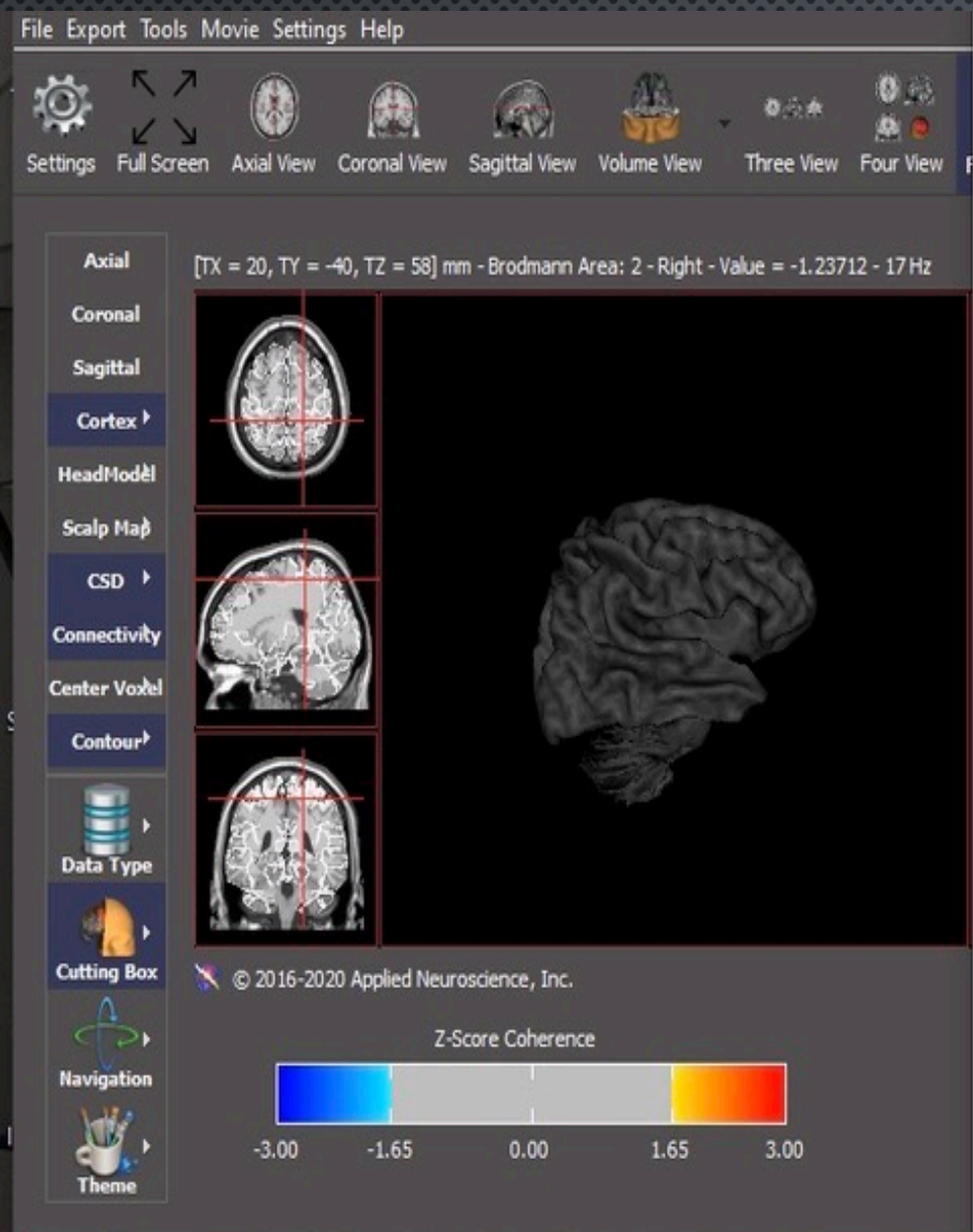
# qEEG and Algorithm-Guided Precision Brain Optimization (PBO)

ROBERT HEDAYA, MD, DLFAPA, ABPN, IFMCP

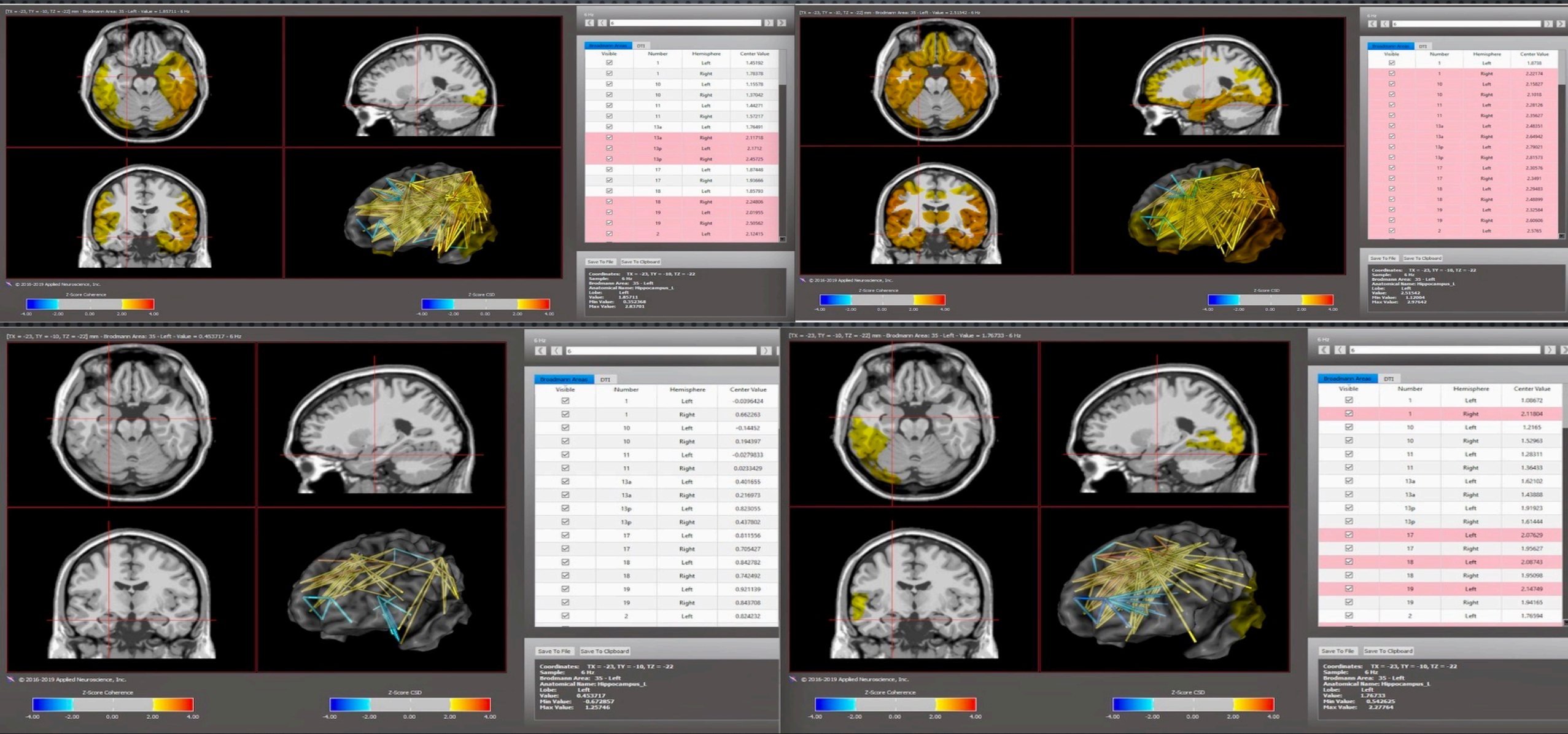
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# 24 YO Paranoia: Visual distortion-menacing faces healed-Vertical Occipital tract & S. Fronto-Occ. Tr.



# 56 YO-APOE4/4: MCI + TLE + Prosopagnosia FCO+PCO



# 65 YO MCI-Hbot, Cortef, HILT-1 Hz

Movie Settings Help

File Export Tools Movie Settings Help

Axial View Coronal View Sagittal View Volume View Three View Four View **Four Plus View** All Slice View All Slice Plus View

Settings Full Screen Axial View Coronal View Sagittal View Volume View Three View Four View **Four Plus View**

[TX = 30, TY = 0, TZ = 33] mm - Brodmann Area: 6 - Right - Value = -2.17056 - 1 Hz

[TX = 0, TY = 5, TZ = 43] mm - Brodmann Area: 24 - Right - Value = -1.48288 - 1 Hz

1 Hz

Brodman Areas		DTI	
Visible	Number	emispher	enter Val
<input checked="" type="checkbox"/>	1	Left	-0.8545...

Save To File Save To Clipboard

Coordinates: TX = 30, TY = 0, TZ = 33  
 Sample: 1 Hz  
 Brodmann Area: 6 - Right  
 Anatomical Name:  
 Lobe: Right  
 Value: -2.17056  
 Min Value: -2.17056  
 Max Value: 1.11154

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Z-Score Coherence Z-Score CSD

-3.00 -1.65 0.00 1.65 3.00 -3.00 -1.65 0.00 1.65 3.00

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Z-Score Coherence Z-Score CSD

-3.00 -1.65 0.00 1.65 3.00 -3.00 -1.65 0.00 1.65 3.00

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# 65 YO MCI-PRGN-Hbot, Cortef, HILT-10 HZ

File Export Tools Movie Settings Help

Screen Axial View Coronal View Sagittal View Volume View Three View Four View **Four Plus View** All Slice View All Slice Plus View Networks Symptoms Settings Full Screen Axial View Coronal View Sagittal View Volume View Three View Four View **Four Plus View**

[TX = -15, TY = 70, TZ = -7] mm - Brodmann Area: 11 - Left - Value = -1.24795 - 10 Hz

10 Hz

Brodmann Areas		DTI	
Visible	Number	hemispher	enter Val.
<input checked="" type="checkbox"/>	1	Left	-0.460793

Save To File Save To Clipboard

Coordinates: TX = -15, TY = 70, TZ = -7  
Sample: 10 Hz  
Brodmann Area: 11 - Left  
Anatomical Name:  
Lobe: Left  
Value: -1.24795  
Min Value: -1.24795  
Max Value: -0.10285

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Z-Score Coherence Z-Score CSD

-3.00 -1.65 0.00 1.65 3.00 -3.00 -1.65 0.00 1.65 3.00

File Export Tools Movie Settings Help

Axial Coronal Sagittal **Cortex** HeadModel Scalp Map CSD Connectivity Center Voxel Contour Data Type Cutting Box Navigation Theme

[TX = 5, TY = 45, TZ = 38] mm - Brodmann Area: 9 - Right - Value = -1.29046 - 10 Hz

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Z-Score Coherence Z-Score CSD

-3.00 -1.65 0.00 1.65 3.00 -3.00 -1.65 0.00 1.65 3.00

# 66 YO Vascular Dementia Pre-Post PCO- 26 Hz Mid-treatment

Movie Settings Help

Waiting for William Lambos to control your screen Stop Share

File Export Tools Movie Settings Help

Settings Full Screen Axial View Coronal View Sagittal View Volume View Three View Four View Four Plus View All Slice View All Slice Plus View

Settings Full Screen Axial View Coronal View Sagittal View Volume View Three View Four View Four Plus View All Slice View All Slice Plus View

[TX = 30, TY = 0, TZ = 3] mm - Brodmann Area: 48 - Right - Value = -1.41023 - 26 Hz

[TX = -25, TY = -50, TZ = 8] mm - Brodmann Area: 37 - Left - Value = -0.841338 - 26 Hz

26 Hz

26 Hz

Visible	Number	Hemisphere	Value
<input checked="" type="checkbox"/>	6	Left	-0.655...
<input checked="" type="checkbox"/>	4	Left	-0.498...
<input checked="" type="checkbox"/>	1	Left	-0.47039
<input checked="" type="checkbox"/>	1	Right	-0.567...
<input checked="" type="checkbox"/>	5	Left	-0.157...
<input checked="" type="checkbox"/>	5	Right	-0.133...
<input checked="" type="checkbox"/>	3	Left	-0.68673
<input checked="" type="checkbox"/>	3	Right	-0.66012
<input checked="" type="checkbox"/>	7	Right	-0.304...
<input checked="" type="checkbox"/>	2	Right	-0.772...
<input checked="" type="checkbox"/>	9	Left	-0.781...
<input checked="" type="checkbox"/>	7	Left	-0.350...
<input checked="" type="checkbox"/>	4	Right	-0.55937
<input checked="" type="checkbox"/>	2	Left	-0.861...
<input checked="" type="checkbox"/>	40	Right	-0.823...

Visible	Number	Hemisphere	Value
<input checked="" type="checkbox"/>	44		
<input checked="" type="checkbox"/>	43		
<input checked="" type="checkbox"/>	45		
<input checked="" type="checkbox"/>	Hippoc...		
<input checked="" type="checkbox"/>	22		
<input checked="" type="checkbox"/>	21		
<input checked="" type="checkbox"/>	13p		
<input checked="" type="checkbox"/>	46		
<input checked="" type="checkbox"/>	9		
<input checked="" type="checkbox"/>	8		
<input checked="" type="checkbox"/>	13a		
<input checked="" type="checkbox"/>	42		
<input checked="" type="checkbox"/>	43		
<input checked="" type="checkbox"/>	38		

Save To File Save To Clipboard

Coordinates: TX = 30, TY = 0, TZ = 3  
 Sample: 26 Hz  
 Brodmann Area: 48 - Right  
 Anatomical Name: Putamen\_R  
 Lobe: Right  
 Value: -1.41023  
 Min Value: -1.41023  
 Max Value: -0.0690167

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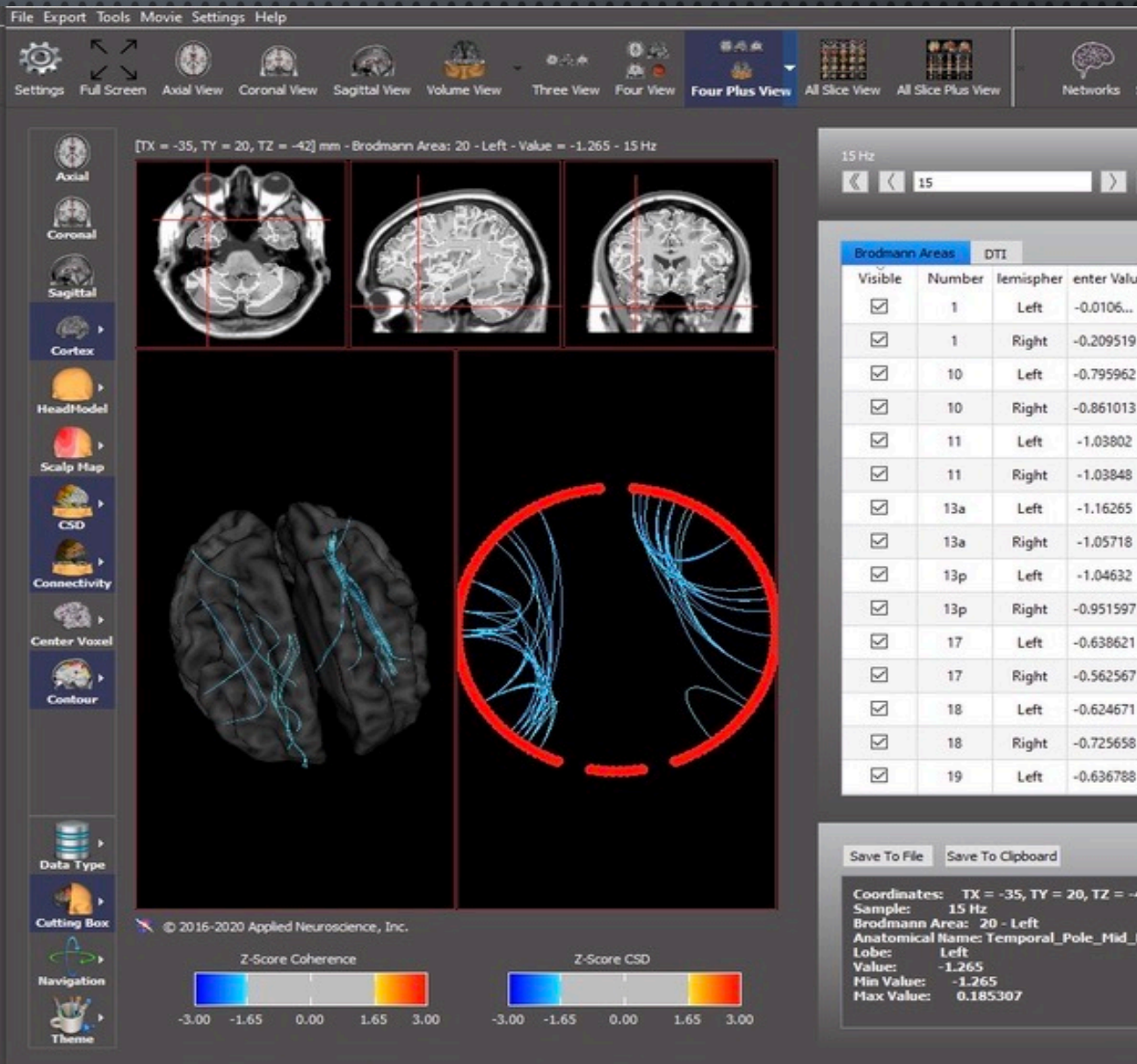
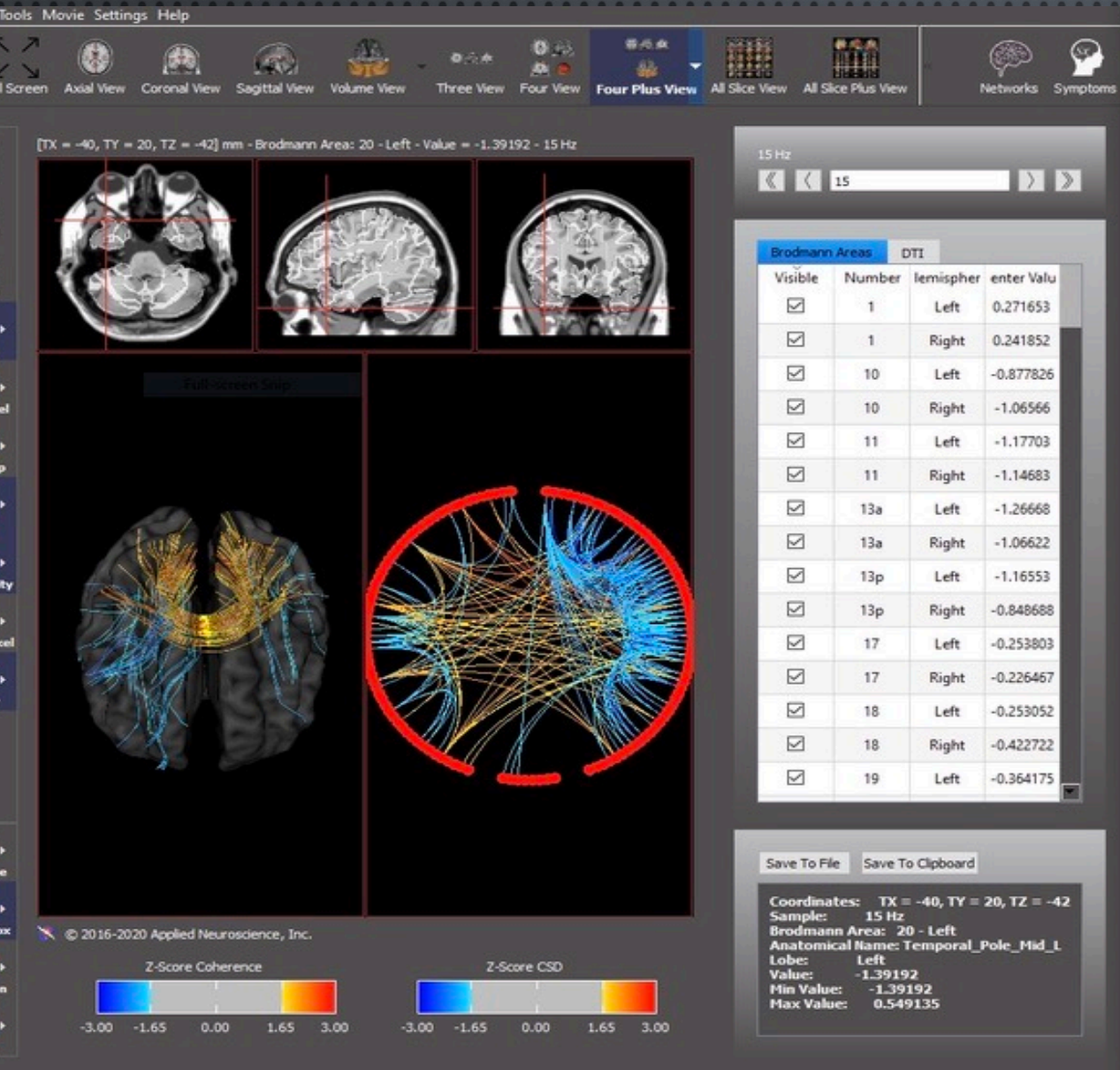
Z-Score Coherence Z-Score CSD

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Coordinates: TX = -25, TY = -50, TZ = 8  
 Sample: 26 Hz  
 Brodmann Area: 37 - Left  
 Anatomical Name: Left  
 Lobe: Left  
 Value: -0.841338  
 Min Value: -0.841338  
 Max Value: 0.38

# 66 YO Vascular Dementia: HILT+HBOT+FCO

## 15 HZ –Saliience Network



# qEEG and Algorithm-Guided Precision Cerebral Optimization

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