Dartmouth Brain Imaging Center (DBIC)
QA Report 64 CH
07242023

Measurements

<table>
<thead>
<tr>
<th>Measurements</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>mean signal (mean)</td>
<td>2836.0</td>
</tr>
<tr>
<td>Signal to Noise Ratio (SNR)</td>
<td>198.7</td>
</tr>
<tr>
<td>Signal to Fluctuation Ratio (SFNR)</td>
<td>201.7</td>
</tr>
<tr>
<td>Percent Fluctuation</td>
<td>0.05</td>
</tr>
<tr>
<td>Drift</td>
<td>0.29</td>
</tr>
<tr>
<td>Radius of Decorrelation (RDC)</td>
<td>9.9</td>
</tr>
<tr>
<td>Mean Ghost Percentage</td>
<td>2.104</td>
</tr>
<tr>
<td>Standard Deviation (std)</td>
<td>1.49</td>
</tr>
</tbody>
</table>

Signal

[result.xml] [percent fluct (trend removed), drift, driftfit] = [0.05, 0.29, 0.1]
Frequence Spectrum

\[ \text{[mean, SNR, SFMR]} = [2836.0, 198.7, 201.7] \]

Raduis of Decorrelation

\[ \text{rdc} = 9.9 \text{ pixels} \]
Smoothness - X

Smoothness (FWHM) in mm - X: [min mean max] = [2.169 2.355 2.556]

Smoothness - Y

Smoothness (FWHM) in mm - Y: [min mean max] = [2.500 2.771 3.037]
Center of Mass - Y

Center of Mass in mm - Y: [maxdisplacement drift] = [0.028 0.018]

Center of Mass - Z

Center of Mass in mm - Z: [maxdisplacement drift] = [0.012 0.007]
Ghost

Mean of ghost voxels as % of non-ghost [masked] mean
(ghostmean, brightghostmean) = (2.184, 4.837)
(lower is better)

Odd-Even Difference Image
SFNR Image