Dartmouth Brain Imaging Center (DBIC)
QA Report 32 CH
01-31-2022

Measurements

<table>
<thead>
<tr>
<th>Measurements</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>mean signal (mean)</td>
<td>1369.9</td>
</tr>
<tr>
<td>Signal to Noise Ratio (SNR)</td>
<td>271.3</td>
</tr>
<tr>
<td>Signal to Fluctuation Ratio (SFNR)</td>
<td>257.4</td>
</tr>
<tr>
<td>Percent Fluctuation</td>
<td>0.06</td>
</tr>
<tr>
<td>Drift</td>
<td>0.43</td>
</tr>
<tr>
<td>Radius of Decorrelation (RDC)</td>
<td>7.5</td>
</tr>
<tr>
<td>Mean Ghost Percentage</td>
<td>2.398</td>
</tr>
<tr>
<td>Standard Deviation (std)</td>
<td>0.77</td>
</tr>
</tbody>
</table>

Signal

```
result.xml [percent fluct (trend removed), drift, driftfit] = [0.06, 0.43, 0.]
```
Frequence Spectrum

(mean, SNR, SFNR) = (1369.9, 271.3, 257.4)

Raduis of Decorrelation

rdc = 7.5 pixels
Smoothness -Z

Smoothness (FWHM) in mm - Z: [min mean max] = [1.535 2.083 2.381]

Center of Mass -X

Center of Mass in mm - X: [max displacement drift] = [0.084 0.081]
Center of Mass -Y

Center of Mass in mm - Y: [max displacement drift] = [0.055 0.047]

Center of Mass -Z

Center of Mass in mm - Z: [max displacement drift] = [0.024 0.021]
Ghost

Mean of ghost voxels as % of non-ghost [masked] mean
(ghostmean, brightghostmean) = (2.398, 7.074)
(lower is better)

Odd-Even Difference Image