

\\USER\MPI\praveen\20230119\_TRTE\peSpiral\_R4\_TE4\_TR10\_vTR3

TA: 6:24 PM: FIX Voxel size: 1.0×1.0×1.0 mmPAT: 4 Rel. SNR: 1.00 : d2097b4

**Properties**

|   |                    |
|---|--------------------|
| Prio recon                                    | Off                |
| Load images to viewer                         | On                 |
| Inline movie                                  | Off                |
| Auto store images                             | On                 |
| Load images to stamp segments                 | Off                |
| Load images to graphic segments               | Off                |
| Auto open inline display                      | Off                |
| Auto close inline display                     | Off                |
| Start measurement without further preparation | Off                |
| Wait for user to start                        | Off                |
| Start measurements                            | Single measurement |

**Routine**

|                    |                    |
|--------------------|--------------------|
| Slab group         | 1                  |
| Slabs              | 1                  |
| Dist. factor       | 20 %               |
| Position           | R9.4 A1.3 F20.7 mm |
| Orientation        | T > C-31.3         |
| Phase enc. dir.    | A >> P             |
| AutoAlign          | ---                |
| Slice oversampling | 11.1 %             |
| Slices per slab    | 18                 |
| FoV read           | 200 mm             |
| FoV phase          | 100.0 %            |
| Slice thickness    | 1.00 mm            |
| TR                 | 10.00 ms           |
| TE                 | 4.00 ms            |
| Averages           | 1                  |
| Concatenations     | 1                  |
| Filter             | None               |
| Coil elements      | R01-31             |

**Contrast - Common**

|            |                     |
|------------|---------------------|
| TR         | 10.00 ms            |
| TE         | 4.00 ms             |
| Flip angle | 20 deg              |
| Fat suppr. | Water excit. normal |

**Contrast - Dynamic**

|                   |           |
|-------------------|-----------|
| Averages          | 1         |
| Averaging mode    | Long term |
| Reconstruction    | Magnitude |
| Measurements      | 132       |
| Pause after meas. | 0.0 s     |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 200 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 1.00 mm |
| Base resolution       | 200     |
| Radial views          | 56      |
| Slice resolution      | 100 %   |
| Slice partial Fourier | Off     |
| Trajectory            | Spiral  |

**Resolution - iPAT**

|                      |        |
|----------------------|--------|
| PAT mode             | GRAPPA |
| Spiral accel. factor | 4      |
| Ref. lines PE        | 32     |

**Resolution - iPAT**

|                     |              |
|---------------------|--------------|
| Accel. factor 3D    | 1            |
| Ref. lines 3D       | 20           |
| CaipiDelta          | 0            |
| Reference scan mode | GRE/separate |

**Resolution - Filter Image**

|                   |     |
|-------------------|-----|
| Image Filter      | Off |
| Distortion Corr.  | Off |
| Prescan Normalize | Off |
| Normalize         | Off |
| B1 filter         | Off |

**Resolution - Filter Rawdata**

|                   |     |
|-------------------|-----|
| Raw filter        | Off |
| Elliptical filter | Off |

**Geometry - Common**

|                    |                    |
|--------------------|--------------------|
| Slab group         | 1                  |
| Slabs              | 1                  |
| Dist. factor       | 20 %               |
| Position           | R9.4 A1.3 F20.7 mm |
| Orientation        | T > C-31.3         |
| Phase enc. dir.    | A >> P             |
| Slice oversampling | 11.1 %             |
| Slices per slab    | 18                 |
| FoV read           | 200 mm             |
| FoV phase          | 100.0 %            |
| Slice thickness    | 1.00 mm            |
| TR                 | 10.00 ms           |
| Multi-slice mode   | Sequential         |
| Series             | Ascending          |
| Concatenations     | 1                  |

**Geometry - AutoAlign**

|                     |                    |
|---------------------|--------------------|
| Slab group          | 1                  |
| Position            | R9.4 A1.3 F20.7 mm |
| Orientation         | T > C-31.3         |
| Phase enc. dir.     | A >> P             |
| AutoAlign           | ---                |
| Initial Position    | R9.4 A1.3 F20.7    |
| R                   | 9.4 mm             |
| A                   | 1.3 mm             |
| F                   | 20.7 mm            |
| Initial Rotation    | 0.00 deg           |
| Initial Orientation | T > C              |
| T > C               | -31.3              |
| > S                 | 0.0                |

**Geometry - Tim Planning Suite**

|                   |      |
|-------------------|------|
| Set-n-Go Protocol | Off  |
| Table position    | H    |
| Table position    | 0 mm |
| Inline Composing  | Off  |

**System - Miscellaneous**

|                  |           |
|------------------|-----------|
| Positioning mode | FIX       |
| Table position   | H         |
| Table position   | 0 mm      |
| MSMA             | S - C - T |
| Sagittal         | R >> L    |

**System - Miscellaneous**

|                     |                |
|---------------------|----------------|
| Coronal             | A >> P         |
| Transversal         | F >> H         |
| Coil Combine Mode   | Sum of Squares |
| Save uncombined     | Off            |
| Matrix Optimization | Off            |
| AutoAlign           | ---            |
| Coil Select Mode    | Default        |

**System - Adjustments**

|                          |          |
|--------------------------|----------|
| B0 Shim mode             | Standard |
| B1 Shim mode             | TrueForm |
| Confirm freq. adjustment | On       |
| Only after freq. change  | Off      |
| Assume Dominant Fat      | Off      |
| Assume Silicone          | Off      |
| Adjustment Tolerance     | Auto     |

**System - Adjust Volume**

|               |                    |
|---------------|--------------------|
| ! Position    | R6.5 A8.0 F18.0 mm |
| ! Orientation | T > C-31.2         |
| ! Rotation    | 0.00 deg           |
| ! A >> P      | 173 mm             |
| ! R >> L      | 200 mm             |
| ! F >> H      | 23 mm              |
| Reset         | Off                |

**System - pTx Volumes**

|              |           |
|--------------|-----------|
| B1 Shim mode | TrueForm  |
| Excitation   | Slab-sel. |

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 399.717497 MHz |
| Correction factor   | 1              |
| Gain                | Low            |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Sequence - Part 1**

|                  |            |
|------------------|------------|
| Introduction     | On         |
| Dimension        | 3D         |
| Asymmetric echo  | Off        |
| Contrasts        | 1          |
| Multi-slice mode | Sequential |
| Sequence Type    | bSSFP      |
| Bandwidth        | 1667 Hz/Px |

**Sequence - Part 2**

|                   |           |
|-------------------|-----------|
| Segments          | 1         |
| Trufi delta freq. | 0 Hz      |
| RF pulse type     | Normal    |
| Gradient mode     | Fast      |
| Excitation        | Slab-sel. |
| RF spoiling       | Off       |

**Sequence - Special**

|                   |              |
|-------------------|--------------|
| Spiral Type       | Spiral Out   |
| Loop Order        | Lin. in Par. |
| spiral OS         | 1            |
| Preparation scans | 1000         |
| Grad. Amp.        | 1.0 fraction |
| Slew Rate         | 0.8 fraction |
| RF-Duration       | 400 us       |

**Sequence - Special**

|                     |     |
|---------------------|-----|
| Time-BW-Product     | 5.0 |
| Gadgetron Reco      | Off |
| Invert SliSel       | On  |
| WaterExc: Long Mode | On  |
| WaterExc: Bipolar   | On  |
| Flip per Frame      | Off |
| Perform FOV Shift   | Off |
| Skope Measurement   | Off |

**Sequence - Assistant**

|      |     |
|------|-----|
| Mode | Off |
|------|-----|