

## SIEMENS MAGNETOM Investigational\_Device\_7T syngo MR B17

VASO compilation version: VASO\_122

\\USER\UserProtocols\Renzo\V1\_template\22\_slices\_isotropic\_TR5s

TA: 7.6 s PAT: 3 Voxel size: 0.8x0.8x0.8 mm Rel. SNR: 1.00 UNKNOWN:

## Properties

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

## Routine

|                    |                 |
|--------------------|-----------------|
| Slab group 1       |                 |
| Slabs              | 1               |
| Dist. factor       | 50 %            |
| Position           | R6.8 P9.4 H36.8 |
| Orientation        | T > C-31.2      |
| Phase enc. dir.    | A >> P          |
| Rotation           | -0.00 deg       |
| Phase oversampling | 24 %            |
| Slice oversampling | 9.1 %           |
| Slices per slab    | 22              |
| FoV read           | 130.0 mm        |
| FoV phase          | 100.0 %         |
| Slice thickness    | 0.80 mm         |
| TR                 | 2549.80 ms      |
| TE                 | 25 ms           |
| Averages           | 1               |
| Concatenations     | 1               |
| Filter             | None            |
| Coil elements      | A32             |

## Contrast

|                |            |
|----------------|------------|
| Perfusion mode | SS-SI VASO |
| TI2            | 700 ms     |
| TI1            | 50 ms      |
| TI1s           | 50 ms      |
| Flip angle     | 4 deg      |
| Fat suppr.     | Fat sat.   |
| Fat sat. mode  | Strong     |

|                 |           |
|-----------------|-----------|
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 3         |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

|                      |            |
|----------------------|------------|
| Perfusion mode       | PICORE Q2T |
| Inversion time 1     | 50 ms      |
| Saturation stop time | 50 ms      |
| Inversion time 2     | 700.0 ms   |
| Flow limit           | 100 cm/s   |

## Resolution

|                       |       |
|-----------------------|-------|
| Base resolution       | 162   |
| Phase resolution      | 100 % |
| Slice resolution      | 100 % |
| Phase partial Fourier | 6/8   |
| Slice partial Fourier | Off   |
| Interpolation         | Off   |

|                     |          |
|---------------------|----------|
| PAT mode            | GRAPPA   |
| Accel. factor PE    | 3        |
| Ref. lines PE       | 45       |
| Accel. factor 3D    | 1        |
| Ref. lines 3D       | 24       |
| Reference scan mode | Separate |

|                   |     |
|-------------------|-----|
| Prescan Normalize | Off |
| Raw filter        | Off |
| Elliptical filter | Off |
| Hamming           | Off |

## Geometry

|                  |             |
|------------------|-------------|
| Multi-slice mode | Interleaved |
| Series           | Ascending   |
| Special sat.     | Parallel F  |
| Gap              | 25.0 mm     |
| Thickness        | 100 mm      |

|                  |      |
|------------------|------|
| Table position   | H    |
| Table position   | 0 mm |
| Inline Composing | Off  |

## System

|                   |                |
|-------------------|----------------|
| V32               | Off            |
| A32               | On             |
| Positioning mode  | FIX            |
| MSMA              | S - C - T      |
| Sagittal          | R >> L         |
| Coronal           | A >> P         |
| Transversal       | F >> H         |
| Save uncombined   | Off            |
| Coil Combine Mode | Sum of Squares |
| AutoAlign         | ---            |
| Auto Coil Select  | Default        |

|                          |             |
|--------------------------|-------------|
| Shim mode                | Standard    |
| Adjust with body coil    | Off         |
| Confirm freq. adjustment | Off         |
| Assume Silicone          | Off         |
| ! Ref. amplitude 1H      | 220.000 V   |
| Adjustment Tolerance     | Auto        |
| Adjust volume            |             |
| ! Position               | Isocenter   |
| ! Orientation            | Transversal |
| ! Rotation               | 90.00 deg   |
| ! A >> P                 | 178 mm      |
| ! R >> L                 | 133 mm      |
| ! F >> H                 | 22 mm       |

## Physio

|                 |      |
|-----------------|------|
| 1st Signal/Mode | None |
|-----------------|------|

## BOLD

|                   |     |
|-------------------|-----|
| Motion correction | Off |
| Spatial filter    | Off |

## Sequence

|                   |            |
|-------------------|------------|
| Introduction      | On         |
| Dimension         | 3D         |
| Reordering        | Linear     |
| Contrasts         | 1          |
| Bandwidth         | 1028 Hz/Px |
| Free echo spacing | Off        |
| Echo spacing      | 1.1 ms     |
| EPI factor        | 162        |

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|                            |              |
|----------------------------|--------------|
| RF pulse type              | Normal       |
| Gradient mode              | Fast         |
| Excitation                 | Slab-sel.    |
| RF spoiling                | On           |
| <hr/>                      |              |
| Ampl                       | 150          |
| BWDTH                      | 125 3.1kHz   |
| ph.skip 4 Robert (the one) | 1            |
| use Ernst angle            | Off          |
| Maxwell Correction         | Off          |
| log physio files           | Off          |
| FFT scale                  | 3.00         |
| dummy prepscan time        | 3 s          |
| z shim                     | 0.00 mT/m*ms |
| RF duration                | 2000 us      |
| RF BWTP                    | 25.0         |
| Renzo: Delta TI            | 74 ms        |
| EFFECTIVE TR               | 60192 ms     |
| PatPartitions              | 24           |
| EPI phase correction       | local        |
| PAT refscan mode           | Flash        |
| FlashRef BaseRes           | 162          |
| FlashRef BW                | 100 Hz/px    |
| FlashRef TE                | 8000 us      |
| FlashRef FA                | 5 deg        |
| use CAIPI                  | Off          |