

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\Feinberglab\Jen\Resting State Piloting\localizer_200V_nova

TA: 0:27 PAT: Off Voxel size: 1.2x1.1x3.0 mm Rel. SNR: 1.00 SIEMENS: gre

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

| | |
|--------------------|-------------|
| Slice group 1 | |
| Slices | 5 |
| Dist. factor | 500 % |
| Position | Isocenter |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Slice group 2 | |
| Slices | 5 |
| Dist. factor | 20 % |
| Position | Isocenter |
| Orientation | Coronal |
| Phase enc. dir. | R >> L |
| Rotation | 0.00 deg |
| Slice group 3 | |
| Slices | 5 |
| Dist. factor | 20 % |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Phase oversampling | 0 % |
| FoV read | 280 mm |
| FoV phase | 100.0 % |
| Slice thickness | 3.0 mm |
| TR | 10.0 ms |
| TE | 3.00 ms |
| Averages | 1 |
| Concatenations | 15 |
| Filter | None |
| Coil elements | B4;M2,3;T1 |

Contrast

| | |
|-------------------|------------------|
| TD | 0 ms |
| MTC | Off |
| Magn. preparation | None |
| Flip angle | 10 deg |
| Fat suppr. | None |
| Water suppr. | None |
| SWI | Off |
| Averaging mode | Short term |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Each measurement |

Resolution

| | |
|-----------------|-----|
| Base resolution | 256 |
|-----------------|-----|

| | |
|-----------------------|------|
| Phase resolution | 90 % |
| Phase partial Fourier | 6/8 |
| Interpolation | On |
| PAT mode | None |
| Image Filter | Off |
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |
| Raw filter | Off |
| Elliptical filter | Off |

Geometry

| | |
|------------------|-------------|
| Multi-slice mode | Sequential |
| Series | Interleaved |
| Saturation mode | Standard |
| Special sat. | None |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |
| Tim CT mode | Off |

System

| | |
|--------------------------|----------------|
| T1 | On |
| M2 | On |
| B4 | On |
| M3 | On |
| V32 | Off |
| Positioning mode | FIX |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Save uncombined | On |
| Coil Combine Mode | Sum of Squares |
| AutoAlign | --- |
| Auto Coil Select | Off |
| Shim mode | Tune up |
| Adjust with body coil | Off |
| Confirm freq. adjustment | Off |
| Assume Silicone | Off |
| ! Ref. amplitude 1H | 200.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| Position | Isocenter |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| R >> L | 350 mm |
| A >> P | 263 mm |
| F >> H | 350 mm |

Physio

| | |
|-----------------|------|
| 1st Signal/Mode | None |
| Segments | 1 |
| Tagging | None |
| Dark blood | Off |
| Resp. control | Off |

Inline

| | |
|----------|-----|
| Subtract | Off |
|----------|-----|

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

| | |
|----------------------|------|
| Liver registration | Off |
| Std-Dev-Sag | Off |
| Std-Dev-Cor | Off |
| Std-Dev-Tra | Off |
| Std-Dev-Time | Off |
| MIP-Sag | Off |
| MIP-Cor | Off |
| MIP-Tra | Off |
| MIP-Time | Off |
| Save original images | On |
| <hr/> | |
| Wash - In | Off |
| Wash - Out | Off |
| TTP | Off |
| PEI | Off |
| MIP - time | Off |
| <hr/> | |
| MapIt | None |
| Contrasts | 1 |

Sequence

| | |
|---------------------|------------|
| Introduction | On |
| Dimension | 2D |
| Phase stabilisation | Off |
| Asymmetric echo | Allowed |
| Bandwidth | 320 Hz/Px |
| Flow comp. | No |
| <hr/> | |
| RF pulse type | Normal |
| Gradient mode | Whisper |
| Excitation | Slice-sel. |
| RF spoiling | On |

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\Feinberglab\Jen\Resting State Piloting\b1map_200V_TR1000_nova

TA: 1:09

Voxel size: 3.9x3.9x5.0 mm

Rel. SNR: 1.00

USER: b1map_658

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

| | |
|-----------------|------------------|
| Slice group 1 | |
| Slices | 10 |
| Dist. factor | 100 % |
| Position | R0.7 A36.4 H11.5 |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| FoV read | 250 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5 mm |
| TR | 1000 ms |
| TE 1 | 14 ms |
| TE 2 | 14 ms |
| Averages | 1 |
| Filter | None |
| Coil elements | B4;M2,3;T1 |

Contrast

| | |
|--------------|---------|
| Flip angle 1 | 90 deg |
| Flip angle 2 | 120 deg |
| Flip angle 3 | 60 deg |
| Flip angle 4 | 135 deg |
| Flip angle 5 | 45 deg |
| Measurements | 1 |

Resolution

| | |
|------------------|-------|
| Base resolution | 64 |
| Phase resolution | 100 % |
| Raw filter | Off |

Geometry

| | |
|------------------|------------------|
| Series | Interleaved |
| Navigator 1 | |
| Position | R2.0 P26.3 F10.8 |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| Base size phase | 50 mm |
| Base size read | 119 mm |
| Thickness | 50 mm |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System

| | |
|----|----|
| T1 | On |
| M2 | On |
| B4 | On |

M3 On
V32 Off

Positioning mode FIX
MSMA S - C - T
Sagittal R >> L
Coronal A >> P
Transversal F >> H
Save uncombined Off
Coil Combine Mode Adaptive Combine
AutoAlign ---
Auto Coil Select Default

Shim mode Tune up
Adjust with body coil Off
Confirm freq. adjustment Off
Assume Silicone Off
! Ref. amplitude 1H 200.000 V
Adjustment Tolerance Auto
Adjust volume
Position Isocenter
Orientation Transversal
Rotation 0.00 deg
R >> L 350 mm
A >> P 263 mm
F >> H 350 mm

Composing

Sequence

Contrasts 2
Bandwidth 260.416667 Hz/Px
T1 Compensation Mean T1
Mean T1 1000.0 ms
Angles 1
Amplitude Weighting Linear
Scale Bar Enabled
Raw Data Disabled

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\Feinberglab\Jen\Resting State Piloting\mp2rage_0.7mm_TR4500

TA: 7:36 PAT: 3 Voxel size: 0.8x0.8x0.8 mm Rel. SNR: 1.00 USER: mp2rage_wip602B

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 | On |
| Start measurements | single |

Routine

| | |
|--------------------|------------------|
| Slab group 1 | |
| Slabs | 1 |
| Dist. factor | 50 % |
| Position | L1.2 A28.3 F30.2 |
| Orientation | Sagittal |
| Phase enc. dir. | H >> F |
| Rotation | 90.00 deg |
| Phase oversampling | 0 % |
| Slice oversampling | 8.3 % |
| Slices per slab | 192 |
| FoV read | 200 mm |
| FoV phase | 90.6 % |
| Slice thickness | 0.80 mm |
| TR | 4500 ms |
| TE | 3.33 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | None |
| Coil elements | B4;M2,3;T1 |

Contrast

| | |
|------------------------|-------------------|
| Magn. preparation | Non-sel. IR |
| TI 1 | 1000 ms |
| TI 2 | 3200 ms |
| Flip angle 1 | 4 deg |
| Flip angle 2 | 4 deg |
| Fat suppr. | Water excit. fast |
| Water suppr. | None |
| 2nd Inversion-Contrast | On |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Each measurement |

Resolution

| | |
|-----------------------|------------|
| Base resolution | 256 |
| Phase resolution | 100 % |
| Slice resolution | 100 % |
| Phase partial Fourier | Off |
| Slice partial Fourier | 6/8 |
| Interpolation | Off |
| PAT mode | GRAPPA |
| Accel. factor PE | 3 |
| Ref. lines PE | 36 |
| Accel. factor 3D | 1 |
| Reference scan mode | Integrated |

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

Geometry

| | |
|------------------|-------------|
| Multi-slice mode | Single shot |
| Series | Interleaved |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System

| | |
|--------------------------|------------------|
| T1 | On |
| M2 | On |
| B4 | On |
| M3 | On |
| V32 | Off |
| Positioning mode | FIX |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Save uncombined | Off |
| Coil Combine Mode | Adaptive Combine |
| AutoAlign | --- |
| Auto Coil Select | Default |
| Shim mode | Standard |
| Adjust with body coil | Off |
| Confirm freq. adjustment | Off |
| Assume Silicone | Off |
| ! Ref. amplitude 1H | 230.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| ! Position | L1.9 A24.9 F9.3 |
| ! Orientation | Sagittal |
| ! Rotation | 0.00 deg |
| ! F >> H | 108 mm |
| ! A >> P | 160 mm |
| ! R >> L | 127 mm |

Physio

| | |
|-----------------|------|
| 1st Signal/Mode | None |
| Dark blood | Off |
| Resp. control | Off |

Inline

| | |
|----------------------|-----|
| Subtract | Off |
| Std-Dev-Sag | Off |
| Std-Dev-Cor | Off |
| Std-Dev-Tra | Off |
| Std-Dev-Time | Off |
| MIP-Sag | Off |
| MIP-Cor | Off |
| MIP-Tra | Off |
| MIP-Time | Off |
| Save original images | On |

Sequence

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

| | |
|-----------------------|-----------|
| Introduction | On |
| Dimension | 3D |
| Elliptical scanning | Off |
| Asymmetric echo | Off |
| Contrasts | 1 |
| Bandwidth | 200 Hz/Px |
| Flow comp. | Slice |
| Echo spacing | 8.1 ms |
| <hr/> | |
| RF pulse type | Fast |
| Gradient mode | Fast |
| Excitation | Non-sel. |
| RF spoiling | On |
| <hr/> | |
| FFT Scale Factor | 200 % |
| Line/Partition Swap | Off |
| Homodyne Phase Filter | Off |
| Flat Image | On |
| T1 Map | On |
| Division Image | Off |
| ExtInvPulseOn | On |
| OffResFreqInv | 0 |
| Invflipangle | 970 |

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\Feinberglab\Jen\Resting State Piloting\mp2rage_1mm_TR4000

TA: 5:26 PAT: 3 Voxel size: 1.0x1.0x1.0 mm Rel. SNR: 1.00 USER: mp2rage_wip602B

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 | On |
| Start measurements | single |

Routine

| | |
|--------------------|------------------|
| Slab group 1 | |
| Slabs | 1 |
| Dist. factor | 50 % |
| Position | L1.9 A29.6 F31.5 |
| Orientation | Sagittal |
| Phase enc. dir. | H >> F |
| Rotation | 90.00 deg |
| Phase oversampling | 0 % |
| Slice oversampling | 11.1 % |
| Slices per slab | 144 |
| FoV read | 200 mm |
| FoV phase | 90.6 % |
| Slice thickness | 1.00 mm |
| TR | 4000 ms |
| TE | 3.23 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | None |
| Coil elements | B4;M2,3;T1 |

Contrast

| | |
|------------------------|-------------------|
| Magn. preparation | Non-sel. IR |
| TI 1 | 1000 ms |
| TI 2 | 3200 ms |
| Flip angle 1 | 4 deg |
| Flip angle 2 | 4 deg |
| Fat suppr. | Water excit. fast |
| Water suppr. | None |
| 2nd Inversion-Contrast | On |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Each measurement |

Resolution

| | |
|-----------------------|------------|
| Base resolution | 192 |
| Phase resolution | 100 % |
| Slice resolution | 100 % |
| Phase partial Fourier | Off |
| Slice partial Fourier | 6/8 |
| Interpolation | Off |
| PAT mode | GRAPPA |
| Accel. factor PE | 3 |
| Ref. lines PE | 36 |
| Accel. factor 3D | 1 |
| Reference scan mode | Integrated |

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

Geometry

| | |
|------------------|-------------|
| Multi-slice mode | Single shot |
| Series | Interleaved |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System

| | |
|--------------------------|------------------|
| T1 | On |
| M2 | On |
| B4 | On |
| M3 | On |
| V32 | Off |
| Positioning mode | FIX |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Save uncombined | Off |
| Coil Combine Mode | Adaptive Combine |
| AutoAlign | --- |
| Auto Coil Select | Default |
| Shim mode | Standard |
| Adjust with body coil | Off |
| Confirm freq. adjustment | Off |
| Assume Silicone | Off |
| ! Ref. amplitude 1H | 240.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| ! Position | L1.9 A24.9 F9.3 |
| ! Orientation | Sagittal |
| ! Rotation | 0.00 deg |
| ! F >> H | 108 mm |
| ! A >> P | 160 mm |
| ! R >> L | 127 mm |

Physio

| | |
|-----------------|------|
| 1st Signal/Mode | None |
| Dark blood | Off |
| Resp. control | Off |

Inline

| | |
|----------------------|-----|
| Subtract | Off |
| Std-Dev-Sag | Off |
| Std-Dev-Cor | Off |
| Std-Dev-Tra | Off |
| Std-Dev-Time | Off |
| MIP-Sag | Off |
| MIP-Cor | Off |
| MIP-Tra | Off |
| MIP-Time | Off |
| Save original images | On |

Sequence

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

| | |
|-----------------------|-----------|
| Introduction | On |
| Dimension | 3D |
| Elliptical scanning | Off |
| Asymmetric echo | Off |
| Contrasts | 1 |
| Bandwidth | 200 Hz/Px |
| Flow comp. | Slice |
| Echo spacing | 7.8 ms |
| <hr/> | |
| RF pulse type | Fast |
| Gradient mode | Fast |
| Excitation | Non-sel. |
| RF spoiling | On |
| <hr/> | |
| FFT Scale Factor | 200 % |
| Line/Partition Swap | Off |
| Homodyne Phase Filter | Off |
| Flat Image | On |
| T1 Map | On |
| Division Image | Off |
| ExtInvPulseOn | On |
| OffResFreqInv | 0 |
| Invflipangle | 970 |

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\Feinberglab\Jen\Resting State

TA: 13:04 PAT: 3 Voxel size: 0.8x0.8x1.0 mm Rel. SNR: 1.00 USER: AV_ep2d_bold_sd_20140727

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

| | |
|--------------------------|------------------|
| Slice group 1 | |
| Slices | 64 |
| Dist. factor | 0 % |
| Position | R1.3 A24.8 F20.0 |
| Orientation | T > C12.5 |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Phase oversampling | 0 % |
| FoV read | 180 mm |
| FoV phase | 91.1 % |
| Slice thickness | 1.00 mm |
| TR | 2500 ms |
| TE | 25.6 ms |
| Multi-band accel. factor | 2 |
| Filter | None |
| Coil elements | B4;M2,3;T1 |

Contrast

| | |
|-------------------|-----------|
| MTC | Off |
| Magn. preparation | None |
| Flip angle | 75 deg |
| Fat suppr. | Fat sat. |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 300 |
| Delay in TR | 0 ms |
| Multiple series | Off |

Resolution

| | |
|-----------------------|--------|
| Base resolution | 224 |
| Phase resolution | 100 % |
| Phase partial Fourier | 6/8 |
| Interpolation | Off |
| PAT mode | GRAPPA |
| Accel. factor PE | 3 |
| Ref. lines PE | 48 |
| Reference scan mode | GRE |
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Raw filter | On |
| Elliptical filter | Off |
| Hamming | Off |

Geometry

| | |
|------------------|-------------|
| Multi-slice mode | Interleaved |
| Series | Interleaved |

Sat. region 1

| | |
|--------------|-------------------|
| Thickness | 50 mm |
| Position | L7.5 A83.5 F67.8 |
| Orientation | C > T-39.1 > S4.0 |
| Special sat. | None |

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

System

| | |
|-----|-----|
| T1 | On |
| M2 | On |
| B4 | On |
| M3 | On |
| V32 | Off |

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

| | |
|--------------------------|------------------|
| Shim mode | Standard |
| Adjust with body coil | Off |
| Confirm freq. adjustment | On |
| Assume Silicone | Off |
| ! Ref. amplitude 1H | 230.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| Position | R1.3 A24.8 F20.0 |
| Orientation | T > C12.5 |
| Rotation | 0.00 deg |
| R >> L | 180 mm |
| A >> P | 164 mm |
| F >> H | 64 mm |

Physio

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

BOLD

| | |
|-------------------------|----------|
| GLM Statistics | Off |
| Dynamic t-maps | Off |
| Starting ignore meas | 0 |
| Ignore after transition | 0 |
| Model transition states | On |
| Temp. highpass filter | On |
| Threshold | 4.00 |
| Paradigm size | 20 |
| Meas[1] | Baseline |
| Meas[2] | Baseline |
| Meas[3] | Baseline |
| Meas[4] | Baseline |
| Meas[5] | Baseline |
| Meas[6] | Baseline |
| Meas[7] | Baseline |
| Meas[8] | Baseline |
| Meas[9] | Baseline |
| Meas[10] | Baseline |
| Meas[11] | Active |
| Meas[12] | Active |
| Meas[13] | Active |
| Meas[14] | Active |
| Meas[15] | Active |

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

| | |
|-------------------|--------|
| Meas[16] | Active |
| Meas[17] | Active |
| Meas[18] | Active |
| Meas[19] | Active |
| Meas[20] | Active |
| Motion correction | Off |
| Spatial filter | Off |

Sequence

| | |
|--------------------------|------------|
| Introduction | Off |
| Bandwidth | 1240 Hz/Px |
| Flow comp. | No |
| Free echo spacing | Off |
| Echo spacing | 1.01 ms |
| <hr/> | |
| SIR accel. factor | 1 |
| EPI factor | 204 |
| Gradient mode | Normal |
| RF spoiling | Off |
| <hr/> | |
| Excite pulse duration | 3640 us |
| Slice multiplier | 1 |
| Multi-band PE shift | 4 1/FoV |
| zBlip scheme | 0 |
| MB kernel size | 0 |
| MB knockout band | 0 |
| No. of interleaved TEs | 0 |
| RF pulse shape | 1 |
| EPI noise scans | 0 |
| EPI full reference scan | 0 |
| Single-band images | On |
| MB RF phase scramble | Off |
| SENSE1 coil combine | Off |
| Log physiology to file | Off |
| Invert RO/PE polarity | Off |
| Save reduced raw data | Off |
| Readout slice trace | Off |
| Disable ramp sampling | Off |
| PF omits higher k-space | Off |
| Online multi-band recon. | Online |
| FFT scale factor | 0.10 |
| GRE iPAT ref. FA | 12.0 deg |
| Send B1 shim trigger | Never |
| Triggering scheme | Standard |
| Starting ignore meas | 0 |
| Paradigm size | 2 |
| Multiplier | 1 |
| Step [1] | 1 |
| Step [2] | 0 |

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\Feinberglab\Jen\Resting State Piloting\Resting

TA: 13:57 PAT: 3 Voxel size: 1.1x1.1x1.1 mm Rel. SNR: 1.00 USER: AV_ep2d_bold_sd_20140727

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

| | |
|--------------------------|-----------------|
| Slice group 1 | |
| Slices | 126 |
| Dist. factor | 0 % |
| Position | L2.1 A27.8 H9.4 |
| Orientation | T > C6.1 |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Phase oversampling | 0 % |
| FoV read | 210 mm |
| FoV phase | 100.0 % |
| Slice thickness | 1.05 mm |
| TR | 2540 ms |
| TE | 20 ms |
| Multi-band accel. factor | 3 |
| Filter | None |
| Coil elements | B4;M2,3;T1 |

Contrast

| | |
|-------------------|-----------|
| MTC | Off |
| Magn. preparation | None |
| Flip angle | 75 deg |
| Fat suppr. | Fat sat. |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 300 |
| Delay in TR | 0 ms |
| Multiple series | Off |

Resolution

| | |
|-----------------------|--------|
| Base resolution | 200 |
| Phase resolution | 100 % |
| Phase partial Fourier | 6/8 |
| Interpolation | Off |
| PAT mode | GRAPPA |
| Accel. factor PE | 3 |
| Ref. lines PE | 66 |
| Reference scan mode | GRE |
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Raw filter | On |
| Elliptical filter | Off |
| Hamming | Off |

Geometry

| | |
|------------------|-------------|
| Multi-slice mode | Interleaved |
| Series | Interleaved |

Special sat. None

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

System

| | |
|--------------------------|-----------------|
| T1 | On |
| M2 | On |
| B4 | On |
| M3 | On |
| V32 | Off |
| Positioning mode | FIX |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| AutoAlign | --- |
| Auto Coil Select | Default |
| Shim mode | Standard |
| Adjust with body coil | Off |
| Confirm freq. adjustment | On |
| Assume Silicone | Off |
| ! Ref. amplitude 1H | 235.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| ! Position | R0.3 A26.4 H8.9 |
| ! Orientation | T > C6.1 |
| ! Rotation | 0.00 deg |
| ! R >> L | 210 mm |
| ! A >> P | 210 mm |
| ! F >> H | 133 mm |

Physio

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

BOLD

| | |
|-------------------------|----------|
| GLM Statistics | Off |
| Dynamic t-maps | Off |
| Starting ignore meas | 0 |
| Ignore after transition | 0 |
| Model transition states | On |
| Temp. highpass filter | On |
| Threshold | 4.00 |
| Paradigm size | 12 |
| Meas[1] | Baseline |
| Meas[2] | Baseline |
| Meas[3] | Baseline |
| Meas[4] | Baseline |
| Meas[5] | Baseline |
| Meas[6] | Baseline |
| Meas[7] | Baseline |
| Meas[8] | Baseline |
| Meas[9] | Baseline |
| Meas[10] | Baseline |
| Meas[11] | Active |
| Meas[12] | Active |
| Motion correction | Off |
| Spatial filter | Off |

Sequence

| | |
|--------------|------------|
| Introduction | Off |
| Bandwidth | 1388 Hz/Px |
| Flow comp. | No |

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

| | |
|--------------------------|----------|
| Free echo spacing | Off |
| Echo spacing | 0.82 ms |
| SIR accel. factor | 1 |
| EPI factor | 200 |
| Gradient mode | Normal |
| RF spoiling | Off |
| Excite pulse duration | 4380 us |
| Slice multiplier | 1 |
| Multi-band PE shift | 4 1/FoV |
| zBlip scheme | 0 |
| MB kernel size | 0 |
| MB knockout band | 0 |
| No. of interleaved TEs | 0 |
| RF pulse shape | 3 |
| EPI noise scans | 0 |
| EPI full reference scan | 0 |
| Single-band images | On |
| MB RF phase scramble | On |
| SENSE1 coil combine | Off |
| Log physiology to file | Off |
| Invert RO/PE polarity | Off |
| Save reduced raw data | Off |
| Readout slice trace | Off |
| Disable ramp sampling | Off |
| PF omits higher k-space | Off |
| Online multi-band recon. | Online |
| FFT scale factor | 1.00 |
| GRE iPAT ref. FA | 12.0 deg |
| Send B1 shim trigger | Never |
| Triggering scheme | Standard |
| Starting ignore meas | 0 |
| Paradigm size | 2 |
| Multiplier | 1 |
| Step [1] | 1 |
| Step [2] | 0 |

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\Feinberglab\Jen\Resting State Piloting\Resting

TA: 13:41 PAT: 2 Voxel size: 1.3x1.3x1.3 mm Rel. SNR: 1.00 USER: AV_ep2d_bold_sd_20140727

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

| | |
|--------------------------|-----------------|
| Slice group 1 | |
| Slices | 104 |
| Dist. factor | 0 % |
| Position | L2.1 A27.8 H9.4 |
| Orientation | T > C6.1 |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Phase oversampling | 0 % |
| FoV read | 210 mm |
| FoV phase | 100.0 % |
| Slice thickness | 1.25 mm |
| TR | 1853 ms |
| TE | 22.8 ms |
| Multi-band accel. factor | 4 |
| Filter | None |
| Coil elements | B4;M2,3;T1 |

Contrast

| | |
|-------------------|-----------|
| MTC | Off |
| Magn. preparation | None |
| Flip angle | 70 deg |
| Fat suppr. | Fat sat. |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 433 |
| Delay in TR | 0 ms |
| Multiple series | Off |

Resolution

| | |
|-----------------------|-------------|
| Base resolution | 168 |
| Phase resolution | 100 % |
| Phase partial Fourier | 6/8 |
| Interpolation | Off |
| PAT mode | GRAPPA |
| Accel. factor PE | 2 |
| Ref. lines PE | 44 |
| Reference scan mode | Single-shot |
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Raw filter | On |
| Elliptical filter | Off |
| Hamming | Off |

Geometry

| | |
|------------------|-------------|
| Multi-slice mode | Interleaved |
| Series | Interleaved |

Sat. region 1

| | |
|--------------|-------------|
| Thickness | 50 mm |
| Position | Isocenter |
| Orientation | Transversal |
| Special sat. | None |

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

System

| | |
|-------------------|----------------|
| T1 | On |
| M2 | On |
| B4 | On |
| M3 | On |
| V32 | Off |
| Positioning mode | FIX |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| AutoAlign | --- |
| Auto Coil Select | Default |

| | |
|--------------------------|-----------------|
| Shim mode | Standard |
| Adjust with body coil | Off |
| Confirm freq. adjustment | On |
| Assume Silicone | Off |
| ! Ref. amplitude 1H | 230.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| ! Position | R0.3 A26.4 H8.9 |
| ! Orientation | T > C6.1 |
| ! Rotation | 0.00 deg |
| ! R >> L | 210 mm |
| ! A >> P | 210 mm |
| ! F >> H | 133 mm |

Physio

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

BOLD

| | |
|-------------------------|----------|
| GLM Statistics | Off |
| Dynamic t-maps | Off |
| Starting ignore meas | 0 |
| Ignore after transition | 0 |
| Model transition states | On |
| Temp. highpass filter | On |
| Threshold | 4.00 |
| Paradigm size | 12 |
| Meas[1] | Baseline |
| Meas[2] | Baseline |
| Meas[3] | Baseline |
| Meas[4] | Baseline |
| Meas[5] | Baseline |
| Meas[6] | Baseline |
| Meas[7] | Baseline |
| Meas[8] | Baseline |
| Meas[9] | Baseline |
| Meas[10] | Baseline |
| Meas[11] | Active |
| Meas[12] | Active |
| Motion correction | Off |
| Spatial filter | Off |

Sequence

| | |
|--------------------------|------------|
| Introduction | Off |
| Bandwidth | 1654 Hz/Px |
| Flow comp. | No |
| Free echo spacing | Off |
| Echo spacing | 0.74 ms |
| <hr/> | |
| SIR accel. factor | 1 |
| EPI factor | 168 |
| Gradient mode | Normal |
| RF spoiling | Off |
| <hr/> | |
| Excite pulse duration | 4380 us |
| Slice multiplier | 1 |
| Multi-band PE shift | 4 1/FoV |
| zBlip scheme | 0 |
| MB kernel size | 0 |
| MB knockout band | 0 |
| No. of interleaved TEs | 0 |
| RF pulse shape | 3 |
| EPI noise scans | 0 |
| EPI full reference scan | 0 |
| Single-band images | On |
| MB RF phase scramble | On |
| SENSE1 coil combine | Off |
| Log physiology to file | Off |
| Invert RO/PE polarity | Off |
| Save reduced raw data | Off |
| Readout slice trace | Off |
| Disable ramp sampling | Off |
| PF omits higher k-space | Off |
| Online multi-band recon. | Online |
| FFT scale factor | 1.00 |
| Send B1 shim trigger | Never |
| Triggering scheme | Standard |
| Starting ignore meas | 0 |
| Paradigm size | 2 |
| Multiplier | 1 |
| Step [1] | 1 |
| Step [2] | 0 |

Table of contents

\\USER

Feinberglab
Jen

Resting State Piloting

Pilot Current

localizer_200V_nova

b1map_200V_TR1000_nova

mp2rage_0.7mm_TR4500

mp2rage_1mm_TR4000

PossibleResting_GE_p8mm_MB2PAT3_pf6_te25_tr1544_sat_JV_tSNR

Resting state-GE_1p05mm_MB3IPAT3_pf6_te23_tr2540_lowSAR_noSAT_JV

Resting state-GE_1p25mm_MB4IPAT2_pf6_te22p8_tr1853_lowSAR_SAT