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\\USER **FIL Physics** Nadine 2023 07 05 TS phantom coilQA localizer_Spinoza6 localizer_Spinoza6 tfl_sag_2p5mmISO_largeFOV tfl_sag_2p5mmISO_largeFOV_RefVolOpt Dream2D_sag_2p5mmISO_largeFOV Dream2D_sag_2p5mmISO_mediumFOV Dream2D_sag_2p5mmISO_mediumFOV_RefVolOpt_0p66 Dream2D_sag_2p5mmISO_mediumFOV_RefVolOpt_1p5 coilQA_sag_FH_1p5x1p5x2mm_largeFOV coilQA_sag_FH_1p5x1p5x2mm_smallFOV coilQA_tra_RL_0p5x0p5x5mm gre_2mmISO_multichannel_uncomb

\\USER\FIL Physics\Nadine\2023_07_05_TS_phantom_coilQA\localizer_Spinoza6

TA: 0:18 PM: REF Voxel size: 0.5×0.5×5.0 mmPAT: Off Rel. SNR: 1.00 : qfl

Properties

| Prio recon | On |
|---|--------------------|
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | On |
| Load images to graphic segments | On |
| 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

| 1 |
|----------------------|
| 3 |
| 50 % |
| R2.9 A15.4 F49.8 mm |
| Sagittal |
| A >> P |
| 2 |
| 3 |
| 50 % |
| R15.8 A13.6 F49.8 mm |
| Coronal |
| F >> H |
| 3 |
| 3 |
| 50 % |
| R11.0 A7.5 F38.4 mm |
| Transversal |
| A >> P |
| |
| 25 % |
| 280 mm |
| 100.0 % |
| 5.0 mm |
| 7.7 ms |
| 3.67 ms |
| 1 |
| 9 |
| Elliptical filter |
| CSP |
| |

Contrast - Common

| TR | 7.7 ms |
|-------------------|---------|
| TE | 3.67 ms |
| TD | 0 ms |
| MTC | Off |
| Magn. preparation | None |
| Flip angle | 20 deg |
| Fat suppr. | None |
| Water suppr. | None |
| SWI | Off |

Contrast - Dynamic

| Averages | 1 |
|----------------|------------|
| Averaging mode | Short term |
| Reconstruction | Magnitude |
| Measurements | 1 |

Contrast - Dynamic

Multiple series

| Resolution - Common | | |
|-----------------------|---------|--|
| FoV read | 280 mm | |
| FoV phase | 100.0 % | |
| Slice thickness | 5.0 mm | |
| Base resolution | 256 | |
| Phase resolution | 75 % | |
| Phase partial Fourier | Off | |
| Interpolation | On | |

Each measurement

Resolution - iPAT

| ĺ | PAT mode | None |
|---|---------------|--------|
| | 1 7 (1 111000 | 140110 |

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 | On |

Geometry - Common

| Geometry - Common | |
|-------------------|----------------------|
| Slice group | 1 |
| Slices | 3 |
| Dist. factor | 50 % |
| Position | R2.9 A15.4 F49.8 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Slices | 3 |
| Dist. factor | 50 % |
| Position | R15.8 A13.6 F49.8 mm |
| Orientation | Coronal |
| Phase enc. dir. | F >> H |
| Slice group | 3 |
| Slices | 3 |
| Dist. factor | 50 % |
| Position | R11.0 A7.5 F38.4 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| FoV read | 280 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| TR | 7.7 ms |
| Multi-slice mode | Sequential |
| Series | Interleaved |
| Concatenations | 9 |

Geometry - AutoAlign

| Slice group | 1 |
|-----------------|----------------------|
| Position | R2.9 A15.4 F49.8 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Position | R15.8 A13.6 F49.8 mm |
| Orientation | Coronal |

Geometry - AutoAlign

| Phase enc. dir. | F >> H |
|---------------------|---------------------|
| Slice group | 3 |
| Position | R11.0 A7.5 F38.4 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Initial Position | R2.9 A15.4 F49.8 |
| R | 2.9 mm |
| A | 15.4 mm |
| F | 49.8 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Sagittal |

Geometry - Saturation

| Saturation mode | Standard |
|-----------------|----------|
| Fat suppr. | None |
| Water suppr. | None |
| Special sat. | None |

Geometry - Tim CT

| Tim CT mode | Off | |
|-----------------|---------|--|
| Slices | 3 | |
| Slice thickness | 5.0 mm | |
| Dist. factor | 50 % | |
| FoV read | 280 mm | |
| FoV phase | 100.0 % | |
| Segments | 1 | |

System - Miscellaneous

| Positioning mode | REF |
|---------------------|----------------------|
| Table position | F |
| Table position | 0 mm |
| MSMA | S-C-T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Off - AutoCoilSelect |

System - Adjustments

| <u> </u> | |
|--------------------------|----------|
| B0 Shim mode | Tune up |
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| ! Position | L0.0 A25.1 F32.6 mm |
|---------------|---------------------|
| ! Orientation | Transversal |
| ! Rotation | 0.00 deg |
| ! A >> P | 175 mm |
| ! R >> L | 201 mm |
| ! F >> H | 259 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.212527 MHz |
|-------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |

System - Tx/Rx

| Reset | Off |
|---------------------|---------|
| ? Ref. amplitude 1H | 0.000 V |

Physio - Signal1

| 1st Signal/Mode | None |
|-----------------|--------|
| TR | 7.7 ms |
| Concatenations | 9 |
| Segments | 1 |

Physio - Cardiac

| Magn. preparation | None |
|-------------------|---------|
| Fat suppr. | None |
| Dark blood | Off |
| FoV read | 280 mm |
| FoV phase | 100.0 % |
| Phase resolution | 75 % |

Physio - PACE

| Resp. control | Off |
|----------------|-----|
| Concatenations | 9 |

Inline - Common

| Subtract | Off |
|----------------------|-----|
| Measurements | 1 |
| StdDev | Off |
| Liver registration | Off |
| Save original images | On |

Inline - MIP

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

Inline - Soft Tissue

| Wash - In | Off | |
|--------------|-----|--|
| | • | |
| Wash - Out | Off | |
| TTP | Off | |
| PEI | Off | |
| MIP - time | Off | |
| Measurements | 1 | |

Inline - Composing

| Distortion Corr. | Off | |
|------------------|-----|--|
| Distortion Corr. | Off | |

Sequence - Part 1

| Introduction | On |
|---------------------|------------|
| Dimension | 2D |
| Phase stabilisation | Off |
| Asymmetric echo | Off |
| Contrasts | 1 |
| Flow comp. | No |
| Multi-slice mode | Sequential |
| Bandwidth | 320 Hz/Px |

Sequence - Part 2

| Segments | 1 |
|--------------------------|------------|
| Acoustic noise reduction | Active |
| RF pulse type | Normal |
| Gradient mode | Normal |
| Excitation | Slice-sel. |
| RF spoiling | On |

SIEMENS MAGNETOM Terra

Sequence - Nuclei

| TX/RX Nucleus | 1H |
|-----------------------|------|
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |
| Coil elements | CSP |

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

\\USER\FIL Physics\Nadine\2023_07_05_TS_phantom_coilQA\localizer_Spinoza6

TA: 0:18 PM: REF Voxel size: 0.5×0.5×5.0 mmPAT: Off Rel. SNR: 1.00 : qfl

Properties

| Prio recon | On |
|---|--------------------|
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | On |
| Load images to graphic segments | On |
| 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

| Slice group | 1 |
|--------------------|-----------------------|
| Slices | 3 |
| Dist. factor | 50 % |
| Position | R2.9 A15.4 F49.8 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Slices | 3 |
| Dist. factor | 50 % |
| Position | R15.8 A13.6 F49.8 mm |
| Orientation | Coronal |
| Phase enc. dir. | F >> H |
| Slice group | 3 |
| Slices | 3 |
| Dist. factor | 50 % |
| Position | R11.0 A7.5 F38.4 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Phase oversampling | 25 % |
| FoV read | 280 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| TR | 7.7 ms |
| TE | 3.67 ms |
| Averages | 1 |
| Concatenations | 9 |
| Filter | Distortion Corr.(2D), |
| | Elliptical filter |
| Coil elements | CSP |

Contrast - Common

| TR | 7.7 ms |
|-------------------|---------|
| TE | 3.67 ms |
| TD | 0 ms |
| MTC | Off |
| Magn. preparation | None |
| Flip angle | 20 deg |
| Fat suppr. | None |
| Water suppr. | None |
| SWI | Off |

Contrast - Dynamic

| Averages | 1 |
|----------------|------------|
| Averaging mode | Short term |
| Reconstruction | Magnitude |
| Measurements | 1 |

Contrast - Dynamic

Multiple series

| <u> </u> | | |
|-----------------------|---------|--|
| Resolution - Common | | |
| FoV read | 280 mm | |
| FoV phase | 100.0 % | |
| Slice thickness | 5.0 mm | |
| Base resolution | 256 | |
| Phase resolution | 75 % | |
| Phase partial Fourier | Off | |
| Interpolation | On | |

Each measurement

Resolution - iPAT

| ĺ | PAT mode | None |
|---|---------------|--------|
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Resolution - Filter Image

| Image Filter | Off |
|-------------------|-----|
| Distortion Corr. | On |
| Mode | 2D |
| Unfiltered images | On |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

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

Geometry - Common

| Geometry - Common | |
|-------------------|----------------------|
| Slice group | 1 |
| Slices | 3 |
| Dist. factor | 50 % |
| Position | R2.9 A15.4 F49.8 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Slices | 3 |
| Dist. factor | 50 % |
| Position | R15.8 A13.6 F49.8 mm |
| Orientation | Coronal |
| Phase enc. dir. | F >> H |
| Slice group | 3 |
| Slices | 3 |
| Dist. factor | 50 % |
| Position | R11.0 A7.5 F38.4 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| FoV read | 280 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| TR | 7.7 ms |
| Multi-slice mode | Sequential |
| Series | Interleaved |
| Concatenations | 9 |

Geometry - AutoAlign

| Slice group | 1 |
|-----------------|---------------------|
| Position | R2.9 A15.4 F49.8 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |

Geometry - AutoAlign

| Position R15.8 A13.6 F49.8 mm Orientation Coronal Phase enc. dir. F >> H Slice group 3 Position R11.0 A7.5 F38.4 mm Orientation Transversal Phase enc. dir. A >> P AutoAlign Initial Position R2.9 A15.4 F49.8 R 2.9 mm A 15.4 mm F 49.8 mm Initial Rotation 0.00 deg Initial Orientation Sagittal | | |
|---|---------------------|----------------------|
| Phase enc. dir. F >> H Slice group 3 Position R11.0 A7.5 F38.4 mm Orientation Transversal Phase enc. dir. A >> P AutoAlign Initial Position R2.9 A15.4 F49.8 R 2.9 mm A 15.4 mm F 49.8 mm Initial Rotation 0.00 deg | Position | R15.8 A13.6 F49.8 mm |
| Slice group 3 Position R11.0 A7.5 F38.4 mm Orientation Transversal Phase enc. dir. A >> P AutoAlign Initial Position R2.9 A15.4 F49.8 R 2.9 mm A 15.4 mm F 49.8 mm Initial Rotation 0.00 deg | Orientation | Coronal |
| Position R11.0 A7.5 F38.4 mm Orientation Transversal Phase enc. dir. A >> P AutoAlign Initial Position R2.9 A15.4 F49.8 R 2.9 mm A 15.4 mm F 49.8 mm Initial Rotation 0.00 deg | Phase enc. dir. | F >> H |
| Orientation Transversal Phase enc. dir. A >> P AutoAlign Initial Position R2.9 A15.4 F49.8 R 2.9 mm A 15.4 mm F 49.8 mm Initial Rotation 0.00 deg | Slice group | 3 |
| Phase enc. dir. A >> P AutoAlign Initial Position R2.9 A15.4 F49.8 R 2.9 mm A 15.4 mm F 49.8 mm Initial Rotation 0.00 deg | Position | R11.0 A7.5 F38.4 mm |
| AutoAlign Initial Position R2.9 A15.4 F49.8 R 2.9 mm A 15.4 mm F 49.8 mm Initial Rotation 0.00 deg | Orientation | Transversal |
| Initial Position R2.9 A15.4 F49.8 R 2.9 mm A 15.4 mm F 49.8 mm Initial Rotation 0.00 deg | Phase enc. dir. | A >> P |
| R 2.9 mm A 15.4 mm F 49.8 mm Initial Rotation 0.00 deg | AutoAlign | |
| A 15.4 mm F 49.8 mm Initial Rotation 0.00 deg | Initial Position | R2.9 A15.4 F49.8 |
| F 49.8 mm Initial Rotation 0.00 deg | R | 2.9 mm |
| Initial Rotation 0.00 deg | | 15.4 mm |
| | F | 49.8 mm |
| Initial Orientation Sagittal | Initial Rotation | 0.00 deg |
| | Initial Orientation | Sagittal |

Geometry - Saturation

| Saturation mode | Standard |
|-----------------|----------|
| Fat suppr. | None |
| Water suppr. | None |
| Special sat. | None |

Geometry - Tim CT

| Tim CT mode | Off |
|-----------------|---------|
| Slices | 3 |
| Slice thickness | 5.0 mm |
| Dist. factor | 50 % |
| FoV read | 280 mm |
| FoV phase | 100.0 % |
| Segments | 1 |

System - Miscellaneous

| Positioning mode | REF |
|---------------------|----------------------|
| Table position | F |
| Table position | 0 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Off - AutoCoilSelect |

System - Adjustments

| B0 Shim mode | Tune up |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| ! Position | L0.0 A25.1 F32.6 mm |
|---------------|---------------------|
| ! Orientation | Transversal |
| ! Rotation | 0.00 deg |
| ! A >> P | 175 mm |
| ! R >> L | 201 mm |
| ! F >> H | 259 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.212527 MHz |
|-------------------|----------------|
| Correction factor | 1 |

System - Tx/Rx

| Gain | High |
|---------------------|---------|
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ? Ref. amplitude 1H | 0.000 V |

Physio - Signal1

| 1st Signal/Mode | None |
|-----------------|--------|
| TR | 7.7 ms |
| Concatenations | 9 |
| Segments | 1 |

Physio - Cardiac

| Magn. preparation | None |
|-------------------|---------|
| Fat suppr. | None |
| Dark blood | Off |
| FoV read | 280 mm |
| FoV phase | 100.0 % |
| Phase resolution | 75 % |

Physio - PACE

| Resp. control | Off |
|----------------|-----|
| Concatenations | 9 |

Inline - Common

| Subtract | Off |
|----------------------|-----|
| Measurements | 1 |
| StdDev | Off |
| Liver registration | Off |
| Save original images | On |

Inline - MIP

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

Inline - Soft Tissue

| Wash - In | Off |
|--------------|-----|
| Wash - Out | Off |
| TTP | Off |
| PEI | Off |
| MIP - time | Off |
| Measurements | 1 |

Inline - Composing

| Distortion Corr. | On |
|-------------------|----|
| Mode | 2D |
| Unfiltered images | On |

Sequence - Part 1

| Introduction | On |
|---------------------|------------|
| Dimension | 2D |
| Phase stabilisation | Off |
| Asymmetric echo | Off |
| Contrasts | 1 |
| Flow comp. | No |
| Multi-slice mode | Sequential |
| Bandwidth | 320 Hz/Px |

Sequence - Part 2

| Segments | 1 | |
|--------------------------|--------|--|
| Acoustic noise reduction | Active | |

SIEMENS MAGNETOM Terra

Sequence - Part 2

| RF pulse type | Normal |
|---------------|------------|
| Gradient mode | Normal |
| Excitation | Slice-sel. |
| RF spoiling | On |

Sequence - Nuclei

| TX/RX Nucleus | 1H |
|-----------------------|------|
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |
| Coil elements | CSP |

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

TA: 1:10 PM: ISO Voxel size: 2.4×2.4×2.5 mmPAT: Off Rel. SNR: 1.00 : tfl

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

| Slice group | 1 |
|--------------------|----------------------|
| Slices | 28 |
| Dist. factor | 100 % |
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Slices | 28 |
| Dist. factor | 100 % |
| Position | R2.1 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Phase oversampling | 0 % |
| FoV read | 340 mm |
| FoV phase | 61.1 % |
| Slice thickness | 2.5 mm |
| TR | 34420.0 ms |
| TE | 2.31 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Distortion Corr.(3D) |
| Coil elements | CSP |

Contrast - Common

| TR | 34420.0 ms |
|-------------------|------------|
| TE | 2.31 ms |
| Magn. preparation | None |
| Flip angle | 10 deg |
| Fat suppr. | None |
| Water suppr. | None |

Contrast - Dynamic

| Averages | 1 |
|-----------------|------------------|
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Each measurement |

Resolution - Common

| FoV read | 340 mm | |
|-----------------------|--------|--|
| FoV phase | 61.1 % | |
| Slice thickness | 2.5 mm | |
| Base resolution | 144 | |
| Phase resolution | 100 % | |
| Phase partial Fourier | Off | |
| Interpolation | Off | |

Resolution - iPAT

| PAT mode | None | |
|-------------------------|------|--|
| Resolution - Filter Ima | ge | |
| Image Filter | Off | |
| Distortion Corr. | On | |
| Mode | 3D | |
| Unfiltered images | On | |
| Prescan Normalize | Off | |
| Normalize | Off | |
| B1 filter | Off | |

Resolution - Filter Rawdata

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

Geometry - Common

| Slice group | 1 |
|------------------|--------------------|
| Slices | 28 |
| Dist. factor | 100 % |
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Slices | 28 |
| Dist. factor | 100 % |
| Position | R2.1 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| FoV read | 340 mm |
| FoV phase | 61.1 % |
| Slice thickness | 2.5 mm |
| TR | 34420.0 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| Slice group | 1 |
|---------------------|--------------------|
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Position | R2.1 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Initial Position | L0.4 A7.5 F37.3 |
| L | 0.4 mm |
| A | 7.5 mm |
| F | 37.3 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Sagittal |

System - Miscellaneous

| Positioning mode | ISO |
|------------------|-----------|
| Table position | F |
| Table position | 37 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |

System - Miscellaneous

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

Sequence - Part 2

| RF spoiling | On |
|--------------|----|
| Turbo factor | 88 |

Sequence - Assistant

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

System - Adjustments

| B0 Shim mode | Brain |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| Position | R0.9 A7.5 F37.3 mm |
|-------------|--------------------|
| Orientation | Sagittal |
| Rotation | 0.00 deg |
| A >> P | 208 mm |
| F >> H | 341 mm |
| R >> L | 140 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.212527 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 306.000 V |

Inline - Common

| Subtract | Off |
|----------------------|-----|
| Measurements | 1 |
| StdDev | Off |
| Save original images | On |

Inline - MIP

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

Inline - Composing

| Distortion Corr. | On |
|-------------------|----|
| Mode | 3D |
| Unfiltered images | On |

Sequence - Part 1

| Introduction | Off |
|------------------|-------------|
| Dimension | 2D |
| Asymmetric echo | Allowed |
| Flow comp. | No |
| Multi-slice mode | Interleaved |
| Echo spacing | 5.1 ms |
| Bandwidth | 400 Hz/Px |

Sequence - Part 2

| RF pulse type | Low SAR |
|---------------|------------|
| Gradient mode | Normal |
| Excitation | Slice-sel. |

\\USER\FIL Physics\Nadine\2023_07_05_TS_phantom_coilQA\tfl_sag_2p5mmlSO_largeFOV_RefVol Opt

TA: 1:10 PM: ISO Voxel size: 2.4×2.4×2.5 mmPAT: Off Rel. SNR: 1.00 : tfl

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 | Off |
| preparation | |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| Slice group | 1 |
|--------------------|----------------------|
| Slices | 28 |
| Dist. factor | 100 % |
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Slices | 28 |
| Dist. factor | 100 % |
| Position | R2.1 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Phase oversampling | 0 % |
| FoV read | 340 mm |
| FoV phase | 61.1 % |
| Slice thickness | 2.5 mm |
| TR | 34420.0 ms |
| TE | 2.31 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Distortion Corr.(3D) |
| Coil elements | CSP |

Contrast - Common

| TR | 34420.0 ms |
|-------------------|------------|
| TE | 2.31 ms |
| Magn. preparation | None |
| Flip angle | 10 deg |
| Fat suppr. | None |
| Water suppr. | None |

Contrast - Dynamic

| Averages | 1 |
|-----------------|------------------|
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Each measurement |

Resolution - Common

| FoV read | 340 mm | |
|-----------------------|--------|--|
| FoV phase | 61.1 % | |
| Slice thickness | 2.5 mm | |
| Base resolution | 144 | |
| Phase resolution | 100 % | |
| Phase partial Fourier | Off | |

Resolution - Common

| Interpolation | Off |
|---------------|-----|
| | |

Resolution - iPAT

| PAT mode | None |
|----------|------|
| | |

Resolution - Filter Image

| Image Filter | Off |
|-------------------|-----|
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | On |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

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

Geometry - Common

| Slice group | 1 |
|------------------|--------------------|
| Slices | 28 |
| Dist. factor | 100 % |
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Slices | 28 |
| Dist. factor | 100 % |
| Position | R2.1 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| FoV read | 340 mm |
| FoV phase | 61.1 % |
| Slice thickness | 2.5 mm |
| TR | 34420.0 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| Slice group | 1 |
|---------------------|--------------------|
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Position | R2.1 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Initial Position | L0.4 A7.5 F37.3 |
| L | 0.4 mm |
| A | 7.5 mm |
| F | 37.3 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Sagittal |

System - Miscellaneous

System - Miscellaneous

| , | |
|---------------------|----------------|
| Table position | F |
| Table position | 37 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| 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 | Brain |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| Position | R0.9 A7.5 F37.3 mm |
|-------------|--------------------|
| Orientation | Sagittal |
| Rotation | 0.00 deg |
| A >> P | 208 mm |
| F >> H | 341 mm |
| R >> L | 140 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.212527 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 270.000 V |

Inline - Common

| Subtract | Off | |
|----------------------|-----|--|
| Measurements | 1 | |
| StdDev | Off | |
| Save original images | On | |

Inline - MIP

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

Inline - Composing

| Distortion Corr. | On |
|-------------------|----|
| Mode | 3D |
| Unfiltered images | On |

Sequence - Part 1

| Introduction | Off |
|------------------|-------------|
| Dimension | 2D |
| Asymmetric echo | Allowed |
| Flow comp. | No |
| Multi-slice mode | Interleaved |
| Echo spacing | 5.1 ms |
| Bandwidth | 400 Hz/Px |

Sequence - Part 2

| RF pulse type | Low SAR |
|---------------|------------|
| Gradient mode | Normal |
| Excitation | Slice-sel. |
| RF spoiling | On |
| Turbo factor | 88 |

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

TA: 1:08 PM: FIX Voxel size: 2.5×2.5×2.5 mmPAT: Off Rel. SNR: 1.00 : 30e5ea5

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

| Slice group | 1 |
|-----------------|----------------------|
| Slices | 11 |
| Dist. factor | 0 % |
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| FoV read | 384 mm |
| FoV phase | 47.4 % |
| Slice thickness | 2.5 mm |
| TR | 6000 ms |
| TE 1 | 2.04 ms |
| TE 2 | 3.18 ms |
| Averages | 1 |
| Concatenations | 11 |
| Filter | Distortion Corr.(3D) |
| Coil elements | CSP |

Contrast - Common

| TR | 6000 ms |
|--------------|---------|
| TE 1 | 2.04 ms |
| TE 2 | 3.18 ms |
| Flip angle 1 | 50 deg |
| Flip angle 2 | 6 deg |

Contrast - Dynamic

| Averages | 1 |
|----------------|-----------|
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |

Resolution - Common

| FoV read | 384 mm |
|-----------------------|--------|
| FoV phase | 47.4 % |
| Slice thickness | 2.5 mm |
| Base resolution | 152 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |

Resolution - iPAT

| PAT mode | None |
|----------|------|
| | |

Resolution - Filter Image

| Image Filter | Off | |
|------------------|-----|--|
| Distortion Corr. | On | |

Resolution - Filter Image

| Mode | 3D |
|-------------------|-----|
| Unfiltered images | On |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

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

Geometry - Common

| Slice group | 1 |
|------------------|--------------------|
| Slices | 11 |
| Dist. factor | 0 % |
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| FoV read | 384 mm |
| FoV phase | 47.4 % |
| Slice thickness | 2.5 mm |
| TR | 6000 ms |
| Multi-slice mode | Sequential |
| Series | Ascending |
| Concatenations | 11 |

Geometry - AutoAlign

| Slice group | 1 |
|---------------------|--------------------|
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Initial Position | L0.4 A7.5 F0.3 |
| L | 0.4 mm |
| A | 7.5 mm |
| F | 0.3 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Sagittal |

System - Miscellaneous

| Design and a second a | FIV |
|-----------------------|----------------|
| Positioning mode | FIX |
| Table position | F |
| Table position | 37 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |

| B0 Shim mode | Brain |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| ! Position | L0.0 A7.3 F35.4 mm |
|---------------|--------------------|
| ! Orientation | Transversal |
| ! Rotation | 0.00 deg |
| ! A >> P | 181 mm |
| ! R >> L | 30 mm |
| ! F >> H | 392 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.212527 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 270.000 V |

Sequence - Part 1

| Introduction | On |
|------------------|------------|
| Dimension | 2D |
| Asymmetric echo | Off |
| Contrasts | 2 |
| Multi-slice mode | Sequential |
| Bandwidth | 910 Hz/Px |

Sequence - Part 2

| Echo train duration | 357 ms |
|---------------------|------------|
| RF pulse type | Normal |
| Gradient mode | Fast |
| Excitation | Slice-sel. |
| RF spoiling | On |
| Turbo factor | 72 |

Sequence - Nuclei

| TX/RX Nucleus | 1H |
|-----------------------|------|
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |
| Coil elements | CSP |

Sequence - Special

| Preparation scans | 2 |
|-------------------|---------|
| Preparation loops | 0 |
| Sample T1 | 2000 ms |
| RF-Duration | 800 us |
| Prep RF-Duration | 400 us |
| Time-BW-Product | 3.2 |
| Timing Scheme | STE* |
| Mixing Time | 1140 us |
| FFT Scale | 10 |
| Calculate FlipMap | On |
| HDR DICOMs | Off |
| STE<->FID Spoiler | Off |
| Scale risetime | 1.20 |

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

\\USER\FIL Physics\Nadine\2023_07_05_TS_phantom_coilQA\Dream2D_sag_2p5mmlSO_mediumF

TA: 1:08 PM: FIX Voxel size: 2.5×2.5×2.5 mmPAT: Off Rel. SNR: 1.00 : 30e5ea5

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

| Slice group | 1 |
|-----------------|----------------------|
| Slices | 11 |
| Dist. factor | 0 % |
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.5 mm |
| TR | 6000 ms |
| TE 1 | 2.04 ms |
| TE 2 | 3.10 ms |
| Averages | 1 |
| Concatenations | 11 |
| Filter | Distortion Corr.(3D) |
| Coil elements | CSP |

Contrast - Common

| TR | 6000 ms |
|--------------|---------|
| TE 1 | 2.04 ms |
| TE 2 | 3.10 ms |
| Flip angle 1 | 50 deg |
| Flip angle 2 | 6 deg |

Contrast - Dynamic

| Averages | 1 |
|----------------|-----------|
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |

Resolution - Common

| FoV read | 200 mm |
|-----------------------|---------|
| FoV phase | 100.0 % |
| Slice thickness | 2.5 mm |
| Base resolution | 80 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |

Resolution - iPAT

| 1 | |
|----------|------|
| PAT mode | None |

Resolution - Filter Image

| Image Filter | Off | |
|--------------|-----|--|
|--------------|-----|--|

Resolution - Filter Image

| Distortion Corr. | On |
|-------------------|-----|
| Mode | 3D |
| Unfiltered images | On |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

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

Geometry - Common

| Slice group | 1 |
|------------------|--------------------|
| Slices | 11 |
| Dist. factor | 0 % |
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.5 mm |
| TR | 6000 ms |
| Multi-slice mode | Sequential |
| Series | Ascending |
| Concatenations | 11 |

Geometry - AutoAlign

| Slice group | 1 |
|---------------------|--------------------|
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Initial Position | L0.4 A7.5 F0.3 |
| L | 0.4 mm |
| A | 7.5 mm |
| F | 0.3 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Sagittal |

System - Miscellaneous

| • | |
|---------------------|----------------|
| Positioning mode | FIX |
| Table position | F |
| Table position | 37 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |

| B0 Shim mode | Brain |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |

| Adjustment Tolerance | Auto | |
|----------------------|------|--|

System - Adjust Volume

| ! Position | L0.0 A8.3 F39.2 mm |
|---------------|--------------------|
| ! Orientation | Transversal |
| ! Rotation | 0.00 deg |
| ! A >> P | 198 mm |
| ! R >> L | 30 mm |
| ! F >> H | 196 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.212527 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 270.000 V |

Sequence - Part 1

| Introduction | On |
|------------------|------------|
| Dimension | 2D |
| Asymmetric echo | Off |
| Contrasts | 2 |
| Multi-slice mode | Sequential |
| Bandwidth | 1010 Hz/Px |

Sequence - Part 2

| Echo train duration | 386 ms |
|---------------------|------------|
| RF pulse type | Normal |
| Gradient mode | Fast |
| Excitation | Slice-sel. |
| RF spoiling | On |
| Turbo factor | 80 |

Sequence - Nuclei

| TX/RX Nucleus | 1H |
|-----------------------|------|
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |
| Coil elements | CSP |

Sequence - Special

| Preparation scans | 2 |
|-------------------|---------|
| Preparation loops | 0 |
| Sample T1 | 2000 ms |
| RF-Duration | 800 us |
| Prep RF-Duration | 400 us |
| Time-BW-Product | 3.2 |
| Timing Scheme | STE* |
| Mixing Time | 1060 us |
| FFT Scale | 10 |
| Calculate FlipMap | On |
| HDR DICOMs | Off |
| STE<->FID Spoiler | Off |
| Scale risetime | 1.20 |

| Mode | Off |
|--------|-----|
| IVIOUC | Oli |

TA: 1:08 PM: FIX Voxel size: 2.5×2.5×2.5 mmPAT: Off Rel. SNR: 1.00 : 30e5ea5

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 | Off |
| preparation | 0" |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| Slice group | 1 |
|-----------------|----------------------|
| Slices | 11 |
| Dist. factor | 0 % |
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.5 mm |
| TR | 6000 ms |
| TE 1 | 2.04 ms |
| TE 2 | 3.10 ms |
| Averages | 1 |
| Concatenations | 11 |
| Filter | Distortion Corr.(3D) |
| Coil elements | CSP |

Contrast - Common

| TR | 6000 ms |
|--------------|---------|
| TE 1 | 2.04 ms |
| TE 2 | 3.10 ms |
| Flip angle 1 | 50 deg |
| Flip angle 2 | 6 deg |

Contrast - Dynamic

| Averages | 1 |
|----------------|-----------|
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |

Resolution - Common

| FoV read | 200 mm |
|-----------------------|---------|
| FoV phase | 100.0 % |
| Slice thickness | 2.5 mm |
| Base resolution | 80 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |

Resolution - iPAT

| PAT mode | None |
|--------------|------|
| r A i illoue | none |

Resolution - Filter Image

| Image Filter | Off | |
|--------------|-----|--|
|--------------|-----|--|

Resolution - Filter Image

| Distortion Corr. | On |
|-------------------|-----|
| Mode | 3D |
| Unfiltered images | On |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

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

Geometry - Common

| Slice group | 1 |
|------------------|--------------------|
| Slices | 11 |
| Dist. factor | 0 % |
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.5 mm |
| TR | 6000 ms |
| Multi-slice mode | Sequential |
| Series | Ascending |
| Concatenations | 11 |

Geometry - AutoAlign

| Slice group | 1 |
|---------------------|--------------------|
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Initial Position | L0.4 A7.5 F0.3 |
| L | 0.4 mm |
| A | 7.5 mm |
| F | 0.3 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Sagittal |

System - Miscellaneous

| - | |
|---------------------|----------------|
| Positioning mode | FIX |
| Table position | F |
| Table position | 37 mm |
| MSMA | S-C-T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |

| B0 Shim mode | Brain |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |

| Adjustment Tolerance | Auto |
|----------------------|------|

System - Adjust Volume

| ! Position | L0.0 A8.3 F39.2 mm |
|---------------|--------------------|
| ! Orientation | Transversal |
| ! Rotation | 0.00 deg |
| ! A >> P | 198 mm |
| ! R >> L | 30 mm |
| ! F >> H | 196 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.212527 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 180.000 V |

Sequence - Part 1

| Introduction | On |
|------------------|------------|
| Dimension | 2D |
| Asymmetric echo | Off |
| Contrasts | 2 |
| Multi-slice mode | Sequential |
| Bandwidth | 1010 Hz/Px |

Sequence - Part 2

| Echo train duration | 386 ms |
|---------------------|------------|
| RF pulse type | Normal |
| Gradient mode | Fast |
| Excitation | Slice-sel. |
| RF spoiling | On |
| Turbo factor | 80 |

Sequence - Nuclei

| TX/RX Nucleus | 1H |
|-----------------------|------|
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |
| Coil elements | CSP |

Sequence - Special

| Preparation scans | 2 |
|-------------------|---------|
| Preparation loops | 0 |
| Sample T1 | 2000 ms |
| RF-Duration | 800 us |
| Prep RF-Duration | 400 us |
| Time-BW-Product | 3.2 |
| Timing Scheme | STE* |
| Mixing Time | 1060 us |
| FFT Scale | 10 |
| Calculate FlipMap | On |
| HDR DICOMs | Off |
| STE<->FID Spoiler | Off |
| Scale risetime | 1.20 |

| Mada | 044 |
|------|-----|
| Mode | Off |

TA: 1:08 PM: FIX Voxel size: 2.5×2.5×2.5 mmPAT: Off Rel. SNR: 1.00 : 30e5ea5

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 | Off |
| preparation | |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| Slice group | 1 |
|-----------------|----------------------|
| Slices | 11 |
| Dist. factor | 0 % |
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.5 mm |
| TR | 6000 ms |
| TE 1 | 2.04 ms |
| TE 2 | 3.10 ms |
| Averages | 1 |
| Concatenations | 11 |
| Filter | Distortion Corr.(3D) |
| Coil elements | CSP |

Contrast - Common

| TR | 6000 ms |
|--------------|---------|
| TE 1 | 2.04 ms |
| TE 2 | 3.10 ms |
| Flip angle 1 | 50 deg |
| Flip angle 2 | 6 deg |

Contrast - Dynamic

| Averages | 1 |
|----------------|-----------|
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |

Resolution - Common

| FoV read | 200 mm |
|-----------------------|---------|
| FoV phase | 100.0 % |
| Slice thickness | 2.5 mm |
| Base resolution | 80 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |

Resolution - iPAT

| - 1 | | |
|-----|-----------|------|
| | PAT mode | Mana |
| | IPAT Mode | None |
| | | |

Resolution - Filter Image

| Image Filter | Off | |
|--------------|-----|--|
|--------------|-----|--|

Resolution - Filter Image

| Distortion Corr. | On |
|-------------------|-----|
| Mode | 3D |
| Unfiltered images | On |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

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

Geometry - Common

| Slice group | 1 |
|------------------|--------------------|
| Slices | 11 |
| Dist. factor | 0 % |
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.5 mm |
| TR | 6000 ms |
| Multi-slice mode | Sequential |
| Series | Ascending |
| Concatenations | 11 |

Geometry - AutoAlign

| Slice group | 1 |
|---------------------|--------------------|
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Initial Position | L0.4 A7.5 F0.3 |
| L | 0.4 mm |
| A | 7.5 mm |
| F | 0.3 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Sagittal |

System - Miscellaneous

| Positioning mode | FIX |
|---------------------|----------------|
| Table position | F |
| Table position | 37 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |

| B0 Shim mode | Brain |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |

| Adjustment Tolerance | Auto | |
|----------------------|------|--|
|----------------------|------|--|

System - Adjust Volume

| ! Position | L0.0 A8.3 F39.2 mm |
|---------------|--------------------|
| ! Orientation | Transversal |
| ! Rotation | 0.00 deg |
| ! A >> P | 198 mm |
| ! R >> L | 30 mm |
| ! F >> H | 196 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.212527 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 405.000 V |

Sequence - Part 1

| Introduction | On |
|------------------|------------|
| Dimension | 2D |
| Asymmetric echo | Off |
| Contrasts | 2 |
| Multi-slice mode | Sequential |
| Bandwidth | 1010 Hz/Px |

Sequence - Part 2

| Echo train duration | 386 ms |
|---------------------|------------|
| RF pulse type | Normal |
| Gradient mode | Fast |
| Excitation | Slice-sel. |
| RF spoiling | On |
| Turbo factor | 80 |

Sequence - Nuclei

| TX/RX Nucleus | 1H |
|-----------------------|------|
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |
| Coil elements | CSP |

Sequence - Special

| Preparation scans | 2 |
|-------------------|---------|
| Preparation loops | 0 |
| Sample T1 | 2000 ms |
| RF-Duration | 800 us |
| Prep RF-Duration | 400 us |
| Time-BW-Product | 3.2 |
| Timing Scheme | STE* |
| Mixing Time | 1060 us |
| FFT Scale | 10 |
| Calculate FlipMap | On |
| HDR DICOMs | Off |
| STE<->FID Spoiler | Off |
| Scale risetime | 1.20 |

| Mada | 044 |
|------|-----|
| Mode | Off |

\\USER\FIL Physics\Nadine\2023_07_05_TS_phantom_coilQA\coilQA_sag_FH_1p5x1p5x2mm_large FOV

TA: 3:20 PM: FIX Voxel size: 1.5×1.5×2.0 mmRel. SNR: 1.00 : fl

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 | Off |
| preparation | |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| Slice group | 1 |
|--------------------|--------------------|
| Slices | 13 |
| Dist. factor | 20 % |
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | H >> F |
| AutoAlign | |
| Phase oversampling | 0 % |
| FoV read | 384 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 30.0 ms |
| TE | 6.0 ms |
| Averages | 2 |
| Concatenations | 13 |
| Filter | None |
| Coil elements | CSP |

Contrast - Common

| TR | 30.0 ms |
|-------------------------|---------|
| TE | 6.0 ms |
| TD | 0 ms |
| MTC | Off |
| Flip angle | 12 deg |
| Fat suppr. Water suppr. | None |
| Water suppr. | None |

Contrast - Dynamic

| Averages | 2 |
|-----------------|------------|
| Averaging mode | Short term |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Off |

Resolution - Common

| FoV read | 384 mm |
|-----------------------|---------|
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| Base resolution | 256 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |

Resolution - Filter Image

| Image Filter | Off | |
|--------------|-----|--|

Resolution - Filter Image

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

Resolution - Filter Rawdata

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

Geometry - Common

| Slice group | 1 |
|------------------|--------------------|
| Slices | 13 |
| Dist. factor | 20 % |
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | H >> F |
| FoV read | 384 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 30.0 ms |
| Multi-slice mode | Sequential |
| Series | Ascending |
| Concatenations | 13 |

Geometry - AutoAlign

| Slice group | 1 |
|---------------------|--------------------|
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | H >> F |
| AutoAlign | |
| Initial Position | L0.4 A7.5 F0.3 |
| L | 0.4 mm |
| A | 7.5 mm |
| F | 0.3 mm |
| Initial Rotation | 90.00 deg |
| Initial Orientation | Sagittal |

Geometry - Saturation

| Fat suppr. | None |
|--------------|------|
| Water suppr. | None |
| Special sat. | None |

System - Miscellaneous

| Positioning mode | FIX |
|---------------------|------------------|
| Table position | F |
| Table position | 37 mm |
| MSMA | S-C-T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Adaptive Combine |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |

| B0 Shim mode | Brain |
|--------------|----------|
| B1 Shim mode | TrueForm |

| Confirm freq. adjustment | Off |
|--------------------------|------|
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| ! Position | R0.8 P12.9 F36.0 mm |
|---------------|---------------------|
| ! Orientation | Sagittal |
| ! Rotation | 79.41 deg |
| ! F >> H | 269 mm |
| ! A >> P | 82 mm |
| ! R >> L | 32 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.212527 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 270.000 V |

Physio - Signal1

| 1st Signal/Mode | None |
|-----------------|---------|
| TR | 30.0 ms |
| Concatenations | 13 |

Sequence - Part 1

| Introduction | Off |
|------------------|------------|
| Dimension | 2D |
| Contrasts | 1 |
| Multi-slice mode | Sequential |
| Bandwidth | 200 Hz/Px |

Sequence - Part 2

| Gradient mode | Fast |
|---------------|------|
| RF spoiling | On |

Sequence - Nuclei

| TX/RX Nucleus | 1H |
|-----------------------|------|
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |
| Coil elements | CSP |

Sequence - Special

| ICE program | IceProgramCoilUtils |
|-------------------------|---------------------|
| Prep. scans duration | 0 ms |
| Optimal SNR | On |
| GFactor | On |
| Rx coil diode switching | On |

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

\\USER\FIL Physics\Nadine\2023_07_05_TS_phantom_coilQA\coilQA_sag_FH_1p5x1p5x2mm_small FOV

TA: 1:40 PM: FIX Voxel size: 1.5×1.5×2.0 mmRel. SNR: 1.00 : fl

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 | Off |
| preparation | |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| Slice group | 1 |
|--------------------|--------------------|
| Slices | 13 |
| Dist. factor | 20 % |
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | H >> F |
| AutoAlign | |
| Phase oversampling | 0 % |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 30.0 ms |
| TE | 6.0 ms |
| Averages | 2 |
| Concatenations | 13 |
| Filter | None |
| Coil elements | CSP |

Contrast - Common

| TR 30.0 ms TE 6.0 ms TD 0 ms MTC Off | |
|--------------------------------------|--|
| TD 0 ms | |
| | |
| MTC Off | |
| | |
| Flip angle 12 deg | |
| Fat suppr. None Water suppr. None | |
| Water suppr. None | |

Contrast - Dynamic

| Averages | 2 |
|-----------------|------------|
| Averaging mode | Short term |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Off |

Resolution - Common

| FoV read | 192 mm |
|-----------------------|---------|
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| Base resolution | 128 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |

Resolution - Filter Image

| | 0" | |
|---------------|-----|--|
| limada Filtar | Off | |
| Image Filter | OII | |

Resolution - Filter Image

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

Resolution - Filter Rawdata

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

Geometry - Common

| Slice group | 1 |
|------------------|--------------------|
| Slices | 13 |
| Dist. factor | 20 % |
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | H >> F |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 30.0 ms |
| Multi-slice mode | Sequential |
| Series | Ascending |
| Concatenations | 13 |

Geometry - AutoAlign

| Slice group | 1 |
|---------------------|--------------------|
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | H >> F |
| AutoAlign | |
| Initial Position | L0.4 A7.5 F0.3 |
| L | 0.4 mm |
| A | 7.5 mm |
| F | 0.3 mm |
| Initial Rotation | 90.00 deg |
| Initial Orientation | Sagittal |

Geometry - Saturation

| Fot ourne | None |
|--------------|------|
| Fat suppr. | None |
| Water suppr. | None |
| Special sat. | None |

System - Miscellaneous

| Positioning mode | FIX |
|---------------------|------------------|
| Table position | F |
| Table position | 37 mm |
| MSMA | S-C-T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Adaptive Combine |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |

| B0 Shim mode | Brain |
|--------------|----------|
| B1 Shim mode | TrueForm |

| Confirm freq. adjustment | Off |
|--------------------------|------|
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| ! Position | R0.8 P12.9 F36.0 mm |
|---------------|---------------------|
| ! Orientation | Sagittal |
| ! Rotation | 79.41 deg |
| ! F >> H | 269 mm |
| ! A >> P | 82 mm |
| ! R >> L | 32 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.212527 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 270.000 V |

Physio - Signal1

| 1st Signal/Mode | None |
|-----------------|---------|
| TR | 30.0 ms |
| Concatenations | 13 |

Sequence - Part 1

| Introduction | Off |
|------------------|------------|
| Dimension | 2D |
| Contrasts | 1 |
| Multi-slice mode | Sequential |
| Bandwidth | 200 Hz/Px |

Sequence - Part 2

| Gradient mode | Fast |
|---------------|------|
| RF spoiling | On |

Sequence - Nuclei

| TX/RX Nucleus | 1H |
|-----------------------|------|
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |
| Coil elements | CSP |

Sequence - Special

| ICE program | IceProgramCoilUtils |
|-------------------------|---------------------|
| Prep. scans duration | 0 ms |
| Optimal SNR | On |
| GFactor | On |
| Rx coil diode switching | On |

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

\\USER\FIL Physics\Nadine\2023_07_05_TS_phantom_coilQA\coilQA_tra_RL_0p5x0p5x5mm

TA: 2:41 PM: FIX Voxel size: 0.5×0.5×5.0 mmRel. SNR: 1.00 : fl

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 | Off |
| preparation | |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| Slice group | 1 |
|--------------------|--------------------|
| Slices | 7 |
| Dist. factor | 300 % |
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Transversal |
| Phase enc. dir. | R >> L |
| AutoAlign | |
| Phase oversampling | 0 % |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| TR | 30.0 ms |
| TE | 6.0 ms |
| Averages | 2 |
| Concatenations | 7 |
| Filter | None |
| Coil elements | CSP |

Contrast - Common

| TR | 30.0 ms |
|-------------------------|---------|
| TE | 6.0 ms |
| TD | 0 ms |
| MTC | Off |
| Flip angle | 12 deg |
| Fat suppr. Water suppr. | None |
| Water suppr. | None |

Contrast - Dynamic

| Averages | 2 |
|-----------------|------------|
| Averaging mode | Short term |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Off |

Resolution - Common

| FoV read | 192 mm |
|-----------------------|---------|
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| Base resolution | 384 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |

Resolution - Filter Image

| Image Filter | Off |
|------------------|-----|
| Distortion Corr. | Off |

Resolution - Filter Image

| Prescan Normalize | Off |
|-------------------|-----|
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

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

Geometry - Common

| Slice group | 1 |
|------------------|--------------------|
| Slices | 7 |
| Dist. factor | 300 % |
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Transversal |
| Phase enc. dir. | R >> L |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| TR | 30.0 ms |
| Multi-slice mode | Sequential |
| Series | Ascending |
| Concatenations | 7 |

Geometry - AutoAlign

| Slice group | 1 |
|---------------------|--------------------|
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Transversal |
| Phase enc. dir. | R >> L |
| AutoAlign | |
| Initial Position | L0.4 A7.5 F0.3 |
| L | 0.4 mm |
| A | 7.5 mm |
| F | 0.3 mm |
| Initial Rotation | 90.00 deg |
| Initial Orientation | Transversal |

Geometry - Saturation

| Fat suppr. | None |
|--------------|------|
| Water suppr. | None |
| Special sat. | None |

System - Miscellaneous

| Positioning mode | FIX |
|---------------------|------------------|
| Table position | F |
| Table position | 37 mm |
| MSMA | S-C-T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Adaptive Combine |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |
| · | |

| B0 Shim mode | Brain |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |

| Assume Silicone | Off |
|----------------------|------|
| Adjustment Tolerance | Auto |

System - Adjust Volume

| ! Position | R0.8 P12.9 F36.0 mm |
|---------------|---------------------|
| ! Orientation | Sagittal |
| ! Rotation | 79.41 deg |
| ! F >> H | 269 mm |
| ! A >> P | 82 mm |
| ! R >> L | 32 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.212527 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 270.000 V |

Physio - Signal1

| 1st Signal/Mode | None |
|-----------------|---------|
| TR | 30.0 ms |
| Concatenations | 7 |

Sequence - Part 1

| Introduction | Off |
|------------------|------------|
| Dimension | 2D |
| Contrasts | 1 |
| Multi-slice mode | Sequential |
| Bandwidth | 200 Hz/Px |

Sequence - Part 2

| Gradient mode | Fast |
|---------------|------|
| RF spoiling | On |

Sequence - Nuclei

| TX/RX Nucleus | 1H |
|-----------------------|------|
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |
| Coil elements | CSP |

Sequence - Special

| ICE program | IceProgramCoilUtils |
|-------------------------|---------------------|
| Prep. scans duration | 0 ms |
| Optimal SNR | On |
| GFactor | On |
| Rx coil diode switching | On |

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

TA: 1:21 PM: FIX Voxel size: 2.0×2.0×2.0 mmPAT: Off Rel. SNR: 1.00 : fl

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 | Off |
| preparation | |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| Slice group | 1 |
|--------------------|----------------------|
| Slices | 44 |
| Dist. factor | 0 % |
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Phase oversampling | 0 % |
| FoV read | 384 mm |
| FoV phase | 75.0 % |
| Slice thickness | 2.0 mm |
| TR | 550.0 ms |
| TE | 3.80 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Distortion Corr.(3D) |
| Coil elements | CSP |

Contrast - Common

| TR | 550.0 ms |
|-------------------|----------|
| TE | 3.80 ms |
| MTC | Off |
| Magn. preparation | None |
| Flip angle | 30 deg |
| Fat suppr. | None |
| Water suppr. | None |
| SWI | Off |

Contrast - Dynamic

| Averages | 1 |
|-----------------|-------------|
| Averaging mode | Short term |
| Reconstruction | Magn./Phase |
| Measurements | 1 |
| Multiple series | Off |

Resolution - Common

| FoV read | 384 mm |
|-----------------------|--------|
| FoV phase | 75.0 % |
| Slice thickness | 2.0 mm |
| Base resolution | 192 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |

Resolution - iPAT

| PAT mode | None |
|----------|------|

Resolution - Filter Image

| Image Filter | Off |
|-------------------|-----|
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | On |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

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

Geometry - Common

| Slice group | 1 |
|------------------|--------------------|
| Slices | 44 |
| Dist. factor | 0 % |
| Position | L0.4 A7.5 F37.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| FoV read | 384 mm |
| FoV phase | 75.0 % |
| Slice thickness | 2.0 mm |
| TR | 550.0 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| 1 |
|--------------------|
| L0.4 A7.5 F37.3 mm |
| Sagittal |
| A >> P |
| |
| L0.4 A7.5 F0.3 |
| 0.4 mm |
| 7.5 mm |
| 0.3 mm |
| 0.00 deg |
| Sagittal |
| |

Geometry - Saturation

| Saturation mode | Standard |
|-----------------|----------|
| Fat suppr. | None |
| Water suppr. | None |
| Special sat. | None |

Geometry - Tim CT

| Tim CT mode | Off |
|-----------------|--------|
| Slices | 44 |
| Slice thickness | 2.0 mm |
| Dist. factor | 0 % |
| FoV read | 384 mm |
| FoV phase | 75.0 % |
| Segments | 1 |

System - Miscellaneous

| Positioning mode | FIX |
|------------------|-----------|
| Table position | F |
| Table position | 37 mm |
| MSMA | S - C - T |

System - Miscellaneous

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

System - Adjustments

| B0 Shim mode | Brain |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| Position | L0.4 A7.5 F37.3 mm |
|-------------|--------------------|
| Orientation | Sagittal |
| Rotation | 0.00 deg |
| A >> P | 288 mm |
| F >> H | 384 mm |
| R >> L | 88 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.212527 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 270.000 V |

Physio - Signal1

| 1st Signal/Mode | None |
|-----------------|----------|
| TR | 550.0 ms |
| Concatenations | 1 |
| Segments | 1 |

Physio - Cardiac

| Magn. preparation | None |
|-------------------|--------|
| Fat suppr. | None |
| Dark blood | Off |
| FoV read | 384 mm |
| FoV phase | 75.0 % |
| Phase resolution | 100 % |

Physio - PACE

| Resp. control | Off |
|----------------|-----|
| Concatenations | 1 |

Inline - Common

| Subtract | Off |
|----------------------|-----|
| Measurements | 1 |
| StdDev | Off |
| Liver registration | Off |
| Save original images | On |

Inline - MIP

| MIP-Sag | Off |
|---------|-----|
| MIP-Cor | Off |
| MIP-Tra | Off |

Inline - MIP

| MIP-Time | Off |
|----------------------|-----|
| Save original images | On |

Inline - Soft Tissue

| Wash - In | Off |
|--------------|-----|
| Wash - Out | Off |
| TTP | Off |
| PEI | Off |
| MIP - time | Off |
| Measurements | 1 |

Inline - Composing

| Distortion Corr. | On |
|-------------------|----|
| Mode | 3D |
| Unfiltered images | On |

Sequence - Part 1

| Introduction | On |
|---------------------|-------------|
| Dimension | 2D |
| Phase stabilisation | On |
| Asymmetric echo | Off |
| Contrasts | 1 |
| Flow comp. | No |
| Multi-slice mode | Interleaved |
| Bandwidth | 320 Hz/Px |

Sequence - Part 2

| Segments | 1 |
|--------------------------|------------|
| Acoustic noise reduction | None |
| RF pulse type | Normal |
| Gradient mode | Fast |
| Excitation | Slice-sel. |
| RF spoiling | On |

Sequence - Nuclei

| - | | |
|-----------------------|------|--|
| TX/RX Nucleus | 1H | |
| TX/RX delta frequency | 0 Hz | |
| TX Nucleus | None | |
| TX delta frequency | 0 Hz | |
| Coil elements | CSP | |

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