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\\USER\FIL Physics\Nadine\2024_01_17_M700837_THSv3_qMRI\localizer
TA: 0:13 PM: FIX 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	On
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
Slices	3
Dist. factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
Slice group	3
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	250 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	8.6 ms
TE	3.69 ms
Averages	1
Concatenations	5
Filter	Distortion Corr.(2D), Elliptical filter
Coil elements	CSP

Contrast - Common

TR	8.6 ms
TE	3.69 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	Each measurement

Resolution - Common

FoV read	250 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
Base resolution	256
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	On

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

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

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	On

Geometry - Common

Slice group	1
Slices	3
Dist. factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
Slice group	3
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
FoV read	250 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	8.6 ms
Multi-slice mode	Sequential
Series	Interleaved
Concatenations	5

Geometry - AutoAlign

Slice group	1
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2

Geometry - AutoAlign

Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
Slice group	3
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 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	1
Slice thickness	5.0 mm
Dist. factor	20 %
FoV read	250 mm
FoV phase	100.0 %
Segments	1

System - Miscellaneous

Positioning mode	FIX
Table position	F
Table position	0 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	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	Isocenter
Orientation	Transversal
Rotation	0.00 deg
A >> P	263 mm
R >> L	350 mm
F >> H	350 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.211835 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	8.6 ms
Concatenations	5
Segments	1

Physio - Cardiac

Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	250 mm
FoV phase	100.0 %
Phase resolution	100 %

Physio - PACE

Resp. control	Off
Concatenations	5

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.	On
Mode	2D
Unfiltered images	Off

Sequence - Part 1

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

Sequence - Part 2

Segments	1
Acoustic noise reduction	Active

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

Sequence - Assistant

Mode	Off

\\USER\FIL Physics\Nadine\2024_01_17_M700837_THSv3_qMRI\localizer_cor
TA: 0:13 PM: ISO Voxel size: 1.0×1.0×5.0 mmPAT: Off Rel. SNR: 1.00 : fl

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	7
Dist. factor	10 %
Position	L1.3 P15.4 F0.5 mm
Orientation	C > T-1.3 > S0.6
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	0 %
FoV read	320 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	7.8 ms
TE	3.12 ms
Averages	1
Concatenations	7
Filter	Distortion Corr.(2D), Elliptical filter
Coil elements	CSP

Contrast - Common

TR	7.8 ms
TE	3.12 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
Multiple series	Each measurement

Resolution - Common

FoV read	320 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
Base resolution	320
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

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

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	On

Geometry - Common

Slice group	1
Slices	7
Dist. factor	10 %
Position	L1.3 P15.4 F0.5 mm
Orientation	C > T-1.3 > S0.6
Phase enc. dir.	R >> L
FoV read	320 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	7.8 ms
Multi-slice mode	Sequential
Series	Interleaved
Concatenations	7

Geometry - AutoAlign

Slice group	1
Position	L1.3 P15.4 F0.5 mm
Orientation	C > T-1.3 > S0.6
Phase enc. dir.	R >> L
AutoAlign	---
Initial Position	L1.3 P15.4 F0.5
L	1.3 mm
P	15.4 mm
F	0.5 mm
Initial Rotation	0.00 deg
Initial Orientation	C > T
C > T	-1.3
> S	0.6

Geometry - Saturation

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

Geometry - Tim CT

Tim CT mode	Off
Slices	7
Slice thickness	5.0 mm
Dist. factor	10 %
FoV read	320 mm
FoV phase	100.0 %
Segments	1

System - Miscellaneous

Positioning mode	ISO
Table position	F
Table position	0 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

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	Isocenter
Orientation	Transversal
Rotation	0.00 deg
A >> P	263 mm
R >> L	350 mm
F >> H	350 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.211835 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Physio - Signal1

1st Signal/Mode	None
TR	7.8 ms
Concatenations	7
Segments	1

Physio - Cardiac

Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	320 mm
FoV phase	100.0 %
Phase resolution	100 %

Physio - PACE

Resp. control	Off
Concatenations	7

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.	On
Mode	2D
Unfiltered images	Off

Sequence - Part 1

Introduction	Off
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Allowed
Contrasts	1
Flow comp.	No
Multi-slice mode	Sequential
Bandwidth	260 Hz/Px

Sequence - Part 2

Segments	1
Acoustic noise reduction	None
RF pulse type	Normal
Gradient mode	Whisper
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

Sequence - Assistant

Mode	Off

\\USER\FIL Physics\Nadine\2024_01_17_M700837_THSv3_qMRI\localizer_sag
TA: 9.4 s PM: ISO Voxel size: 1.0×1.0×5.0 mmPAT: Off Rel. SNR: 1.00 : fl

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	5
Dist. factor	100 %
Position	R0.8 P16.8 H2.2 mm
Orientation	S > T-2.3 > C0.1
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	320 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	7.8 ms
TE	3.12 ms
Averages	1
Concatenations	5
Filter	Distortion Corr.(2D), Elliptical filter
Coil elements	CSP

Contrast - Common

TR	7.8 ms
TE	3.12 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
Multiple series	Each measurement

Resolution - Common

FoV read	320 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
Base resolution	320
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

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

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	On

Geometry - Common

Slice group	1
Slices	5
Dist. factor	100 %
Position	R0.8 P16.8 H2.2 mm
Orientation	S > T-2.3 > C0.1
Phase enc. dir.	A >> P
FoV read	320 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	7.8 ms
Multi-slice mode	Sequential
Series	Interleaved
Concatenations	5

Geometry - AutoAlign

Slice group	1
Position	R0.8 P16.8 H2.2 mm
Orientation	S > T-2.3 > C0.1
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	R0.8 P16.8 H2.2
R	0.8 mm
P	16.8 mm
H	2.2 mm
Initial Rotation	0.00 deg
Initial Orientation	S > T
S > T	-2.3
> C	0.1

Geometry - Saturation

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

Geometry - Tim CT

Tim CT mode	Off
Slices	5
Slice thickness	5.0 mm
Dist. factor	100 %
FoV read	320 mm
FoV phase	100.0 %
Segments	1

System - Miscellaneous

Positioning mode	ISO
Table position	H
Table position	2 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

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	Isocenter
Orientation	Transversal
Rotation	0.00 deg
A >> P	263 mm
R >> L	350 mm
F >> H	350 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.211835 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Physio - Signal1

1st Signal/Mode	None
TR	7.8 ms
Concatenations	5
Segments	1

Physio - Cardiac

Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	320 mm
FoV phase	100.0 %
Phase resolution	100 %

Physio - PACE

Resp. control	Off
Concatenations	5

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.	On
Mode	2D
Unfiltered images	Off

Sequence - Part 1

Introduction	Off
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Allowed
Contrasts	1
Flow comp.	No
Multi-slice mode	Sequential
Bandwidth	260 Hz/Px

Sequence - Part 2

Segments	1
Acoustic noise reduction	None
RF pulse type	Normal
Gradient mode	Whisper
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

Sequence - Assistant

Mode	Off

\\USER\FIL Physics\Nadine\2024_01_17_M700837_THSv3_qMRI\tfl_b1map_sag_7sl_auto
TA: 0:14 PM: FIX Voxel size: 1.0×1.0×2.0 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	7
Dist. factor	100 %
Position	R0.8 P16.8 H2.2 mm
Orientation	S > T-2.3 > C0.1
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	6460.0 ms
TE	2.29 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D)
Coil elements	CSP

Contrast - Common

TR	6460.0 ms
TE	2.29 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	200 mm
FoV phase	100.0 %
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

Resolution - Filter Image

Distortion Corr.	On
Mode	2D
Unfiltered images	Off
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	100 %
Position	R0.8 P16.8 H2.2 mm
Orientation	S > T-2.3 > C0.1
Phase enc. dir.	A >> P
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	6460.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice group	1
Position	R0.8 P16.8 H2.2 mm
Orientation	S > T-2.3 > C0.1
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	R0.8 P16.8 H0.2
R	0.8 mm
P	16.8 mm
H	0.2 mm
Initial Rotation	0.00 deg
Initial Orientation	S > T
S > T	-2.3
> C	0.1

System - Miscellaneous

Positioning mode	FIX
Table position	H
Table position	2 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

SIEMENS MAGNETOM Terra

System - Adjustments

Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	L0.8 P16.3 F5.4 mm
! Orientation	T > C6.6 > S2.3
! Rotation	-0.20 deg
! A >> P	48 mm
! R >> L	47 mm
! F >> H	109 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.211835 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 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	2D
Unfiltered images	Off

Sequence - Part 1

Introduction	Off
Dimension	2D
Asymmetric echo	Allowed
Flow comp.	No
Multi-slice mode	Interleaved
Echo spacing	4.8 ms
Bandwidth	490 Hz/Px

Sequence - Part 2

RF pulse type	Low SAR
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On
Turbo factor	192

Sequence - Assistant

Mode	Off

\\USER\FIL Physics\Nadine\2024_01_17_M700837_THSv3_qMRI\tfl_b1map_sag_7sl_242V

TA: 0:14 PM: FIX Voxel size: 1.0×1.0×2.0 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	7
Dist. factor	100 %
Position	R0.8 P16.8 H2.2 mm
Orientation	S > T-2.3 > C0.1
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	6460.0 ms
TE	2.29 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D)
Coil elements	CSP

Contrast - Common

TR	6460.0 ms
TE	2.29 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	200 mm
FoV phase	100.0 %
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

Resolution - Filter Image

Distortion Corr.	On
Mode	2D
Unfiltered images	Off
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	100 %
Position	R0.8 P16.8 H2.2 mm
Orientation	S > T-2.3 > C0.1
Phase enc. dir.	A >> P
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	6460.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice group	1
Position	R0.8 P16.8 H2.2 mm
Orientation	S > T-2.3 > C0.1
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	R0.8 P16.8 H0.2
R	0.8 mm
P	16.8 mm
H	0.2 mm
Initial Rotation	0.00 deg
Initial Orientation	S > T
S > T	-2.3
> C	0.1

System - Miscellaneous

Positioning mode	FIX
Table position	H
Table position	2 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

System - Adjustments

Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	L0.8 P16.3 F5.4 mm
! Orientation	T > C6.6 > S2.3
! Rotation	-0.20 deg
! A >> P	48 mm
! R >> L	47 mm
! F >> H	109 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.211835 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	242.000 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	2D
Unfiltered images	Off

Sequence - Part 1

Introduction	Off
Dimension	2D
Asymmetric echo	Allowed
Flow comp.	No
Multi-slice mode	Interleaved
Echo spacing	4.8 ms
Bandwidth	490 Hz/Px

Sequence - Part 2

RF pulse type	Low SAR
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On
Turbo factor	192

Sequence - Assistant

Mode	Off

\\USER\FIL Physics\Nadine\2024_01_17_M700837_THSv3_qMRI\b0map_gre_field_sag_1x1x2_7sl
TA: 1:17 PM: FIX Voxel size: 1.0×1.0×2.0 mmRel. SNR: 1.00 : fm

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	7
Dist. factor	10 %
Position	R0.8 P16.8 H2.2 mm
Orientation	S > T-2.3 > C0.1
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	200.0 ms
TE 1	3.06 ms
TE 2	4.08 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	CSP

Contrast - Common

TR	200.0 ms
TE 1	3.06 ms
TE 2	4.08 ms
MTC	Off
Flip angle	32 deg
Fat suppr.	None

Contrast - Dynamic

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

Resolution - Common

FoV read	192 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
Base resolution	192
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	10 %
Position	R0.8 P16.8 H2.2 mm
Orientation	S > T-2.3 > C0.1
Phase enc. dir.	A >> P
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	200.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice group	1
Position	R0.8 P16.8 H2.2 mm
Orientation	S > T-2.3 > C0.1
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	R0.8 P16.8 H0.2
R	0.8 mm
P	16.8 mm
H	0.2 mm
Initial Rotation	0.00 deg
Initial Orientation	S > T
S > T	-2.3
> C	0.1

Geometry - Saturation

Fat suppr.	None
Special sat.	None

System - Miscellaneous

Positioning mode	FIX
Table position	H
Table position	2 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

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off

System - Adjustments

Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	L0.8 P16.3 F5.4 mm
! Orientation	T > C6.6 > S2.3
! Rotation	-0.20 deg
! A >> P	48 mm
! R >> L	47 mm
! F >> H	109 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.211835 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	242.000 V

Sequence - Part 1

Introduction	Off
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Flow comp.	No
Multi-slice mode	Interleaved
Bandwidth	965 Hz/Px

Sequence - Part 2

RF pulse type	Normal
Gradient mode	Normal
RF spoiling	On

Sequence - Assistant

Mode	Off

\\USER\FIL Physics\Nadine\2024_01_17_M700837_THSv3_qMRI\t2_tse_sag_2D_5sl_p2_trig
TA: 2:24 PM: FIX Voxel size: 0.6×0.6×2.2 mmPAT: 2 Rel. SNR: 1.00 : tse

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	5
Dist. factor	40 %
Position	R0.8 P16.8 H2.2 mm
Orientation	S > T-2.3 > C0.1
Phase enc. dir.	H >> F
AutoAlign	---
Phase oversampling	60 %
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	2.2 mm
TR	4000.0 ms
TE	37.0 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D), B1 filter
Coil elements	CSP

Contrast - Common

TR	4000.0 ms
TE	37.0 ms
MTC	Off
Magn. preparation	None
Flip angle	120 deg
Fat suppr.	Fat sat.
Fat sat. mode	Strong
Water suppr.	None
Restore magn.	Off

Contrast - Dynamic

Averages	1
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution - Common

FoV read	192 mm
FoV phase	100.0 %
Slice thickness	2.2 mm
Base resolution	320
Phase resolution	100 %
Phase partial Fourier	Off
Trajectory	Cartesian
Interpolation	Off

Resolution - iPAT

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	31
Reference scan mode	Integrated

Resolution - Filter Image

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

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slice group	1
Slices	5
Dist. factor	40 %
Position	R0.8 P16.8 H2.2 mm
Orientation	S > T-2.3 > C0.1
Phase enc. dir.	H >> F
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	2.2 mm
TR	4000.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice group	1
Position	R0.8 P16.8 H2.2 mm
Orientation	S > T-2.3 > C0.1
Phase enc. dir.	H >> F
AutoAlign	---
Initial Position	R0.8 P16.8 H0.2
R	0.8 mm
P	16.8 mm
H	0.2 mm
Initial Rotation	90.00 deg
Initial Orientation	S > T
S > T	-2.3
> C	0.1

Geometry - Saturation

Fat suppr.	Fat sat.
Fat sat. mode	Strong
Water suppr.	None
Restore magn.	Off
Special sat.	None

Geometry - Navigator

Geometry - Tim CT

Tim CT mode	Off

Geometry - Tim CT

Slices	5
Slice thickness	2.2 mm
Dist. factor	40 %
FoV read	192 mm
FoV phase	100.0 %

System - Miscellaneous

Positioning mode	FIX
Table position	H
Table position	2 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

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	L0.8 P16.3 F5.4 mm
! Orientation	T > C6.6 > S2.3
! Rotation	-0.20 deg
! A >> P	48 mm
! R >> L	47 mm
! F >> H	109 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.211835 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	242.000 V

Physio - Signal1

1st Signal/Mode	None
TR	4000.0 ms
Concatenations	1

Physio - Cardiac

Magn. preparation	None
Fat suppr.	Fat sat.
Dark blood	Off
FoV read	192 mm
FoV phase	100.0 %
Phase resolution	100 %
Trajectory	Cartesian

Physio - PACE

Resp. control	Off
Concatenations	1

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	2D
Unfiltered images	Off

Sequence - Part 1

Introduction	Off
Dimension	2D
Compensate T2 decay	Off
Reduce Motion Sens.	On
Contrasts	1
Flow comp.	No
Optimization	In phase
Multi-slice mode	Interleaved
Free echo spacing	Off
Echo spacing	9.14 ms
Bandwidth	579 Hz/Px

Sequence - Part 2

Define	Turbo factor
Echo trains per slice	34
Phase correction	Automatic
Acoustic noise reduction	None
RF pulse type	Normal
Gradient mode	Normal
Hyperecho	On
WARP	Off
Red. EC sensitivity	Off
Turbo factor	8

Sequence - Assistant

Mode	Off
Allowed delay	0 s

\\USER\FIL Physics\Nadine\2024_01_17_M700837_THSv3_qMRI\t1_mp2rage_cor_nonSelHS1_0.7iso

TA: 8:47 PM: FIX Voxel size: 0.7×0.7×0.7 mmPAT: 2 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

Slab group	1
Slabs	1
Dist. factor	50 %
Position	R1.6 P10.8 H11.4 mm
Orientation	C > T-0.3 > S-0.1
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	192
FoV read	260 mm
FoV phase	65.8 %
Slice thickness	0.70 mm
TR	5000.0 ms
TE	2.13 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(3D)
Coil elements	CSP

Contrast - Common

TR	5000.0 ms
TE	2.13 ms
Magn. preparation	Non-sel. IR
TI 1	700 ms
TI 2	2400 ms
Flip angle 1	4.0 deg
Flip angle 2	5.0 deg
Fat suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution - Common

FoV read	260 mm
FoV phase	65.8 %
Slice thickness	0.70 mm
Base resolution	368
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8

Resolution - Common

Slice partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	28
Accel. factor 3D	1
Reference scan mode	Integrated

Resolution - Filter Image

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

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slab group	1
Slabs	1
Dist. factor	50 %
Position	R1.6 P10.8 H11.4 mm
Orientation	C > T-0.3 > S-0.1
Phase enc. dir.	R >> L
Slice oversampling	0.0 %
Slices per slab	192
FoV read	260 mm
FoV phase	65.8 %
Slice thickness	0.70 mm
TR	5000.0 ms
Multi-slice mode	Single shot
Series	Ascending
Concatenations	1

Geometry - AutoAlign

Slab group	1
Position	R1.6 P10.8 H11.4 mm
Orientation	C > T-0.3 > S-0.1
Phase enc. dir.	R >> L
AutoAlign	---
Initial Position	R1.6 P10.8 H9.4
R	1.6 mm
P	10.8 mm
H	9.4 mm
Initial Rotation	-0.70 deg
Initial Orientation	C > T
C > T	-0.3
> S	-0.1

Geometry - Navigator

System - Miscellaneous

Positioning mode	FIX
Table position	H

System - Miscellaneous

Table position	2 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	L0.8 P16.3 F5.4 mm
! Orientation	T > C6.6 > S2.3
! Rotation	-0.20 deg
! A >> P	48 mm
! R >> L	47 mm
! F >> H	109 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.211835 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	242.000 V

Physio - Signal1

1st Signal/Mode	None
TR	5000.0 ms
Concatenations	1

Physio - Cardiac

Magn. preparation	Non-sel. IR
TI 1	700 ms
TI 2	2400 ms
Fat suppr.	None
Dark blood	Off
FoV read	260 mm
FoV phase	65.8 %
Phase resolution	100 %

Physio - PACE

Resp. control	Off
Concatenations	1

Inline - Common

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

Inline - MIP

MIP-Sag	Off

Inline - MIP

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

Inline - Composing

Distortion Corr.	On
Mode	3D
Unfiltered images	Off

Sequence - Part 1

Introduction	On
Dimension	3D
Elliptical scanning	Off
Reordering	Linear
Asymmetric echo	Allowed
Flow comp.	No
Multi-slice mode	Single shot
Echo spacing	6.3 ms
Bandwidth	220 Hz/Px

Sequence - Part 2

RF pulse type	Normal
Gradient mode	Normal*
Excitation	Non-sel.
RF spoiling	On
Incr. Gradient spoiling	Off
Turbo factor	192

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

Use Custom Inversion	On
Inv pulse type	HS1
HS pulse dur	10240 us
HS pulse offset	0 Hz
HS flip angle	360 deg
TR_FOCI B1	0.00 uT
Echo Spacing	6340 us
Denoise Weighting	100

Sequence - Assistant

Mode	Off

\\USER\FIL Physics\Nadine\2024_01_17_M700837_THSv3_qMRI\crmbm_ep2d_diff_msma_5s_LR_rev_b0
TA: 0:21 PM: ISO Voxel size: 0.8×0.8×3.0 mmPAT: 2 Rel. SNR: 1.00 : epse

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	1
Dist. factor	50 %
Position	L1.2 P14.6 F15.3 mm
Orientation	T > C7.5 > S2.3
Phase enc. dir.	L >> R
Slice group	2
Slices	1
Dist. factor	50 %
Position	L0.0 P14.3 H0.5 mm
Orientation	T > C5.3 > S2.3
Phase enc. dir.	L >> R
Slice group	3
Slices	1
Dist. factor	50 %
Position	R3.7 P15.1 H13.7 mm
Orientation	T > S2.3 > C-0.1
Phase enc. dir.	L >> R
Slice group	4
Slices	1
Dist. factor	50 %
Position	R3.3 P18.0 H29.3 mm
Orientation	T > S2.3 > C1.0
Phase enc. dir.	L >> R
Slice group	5
Slices	1
Dist. factor	50 %
Position	R2.9 P18.5 H41.8 mm
Orientation	T > S2.2 > C-0.7
Phase enc. dir.	L >> R
AutoAlign	---
Phase oversampling	25 %
FoV read	105 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
TR	650 ms
TE	57.0 ms
Concatenations	3
Filter	Dynamic Field Corr.
Coil elements	CSP

Contrast - Common

TR	650 ms
TE	57.0 ms
MTC	Off

Contrast - Common

Magn. preparation	None
Flip angle exc	90 deg
Fat suppr.	None

Contrast - Dynamic

Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Delay in TR	0 ms
Multiple series	Off

Resolution - Common

FoV read	105 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
Base resolution	128
Phase resolution	100 %
Phase partial Fourier	5/8
Interpolation	Off

Resolution - iPAT

Accel. mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Reference scan mode	EPI/separate

Resolution - Filter Image

Distortion Corr.	Off
Prescan Normalize	Off
Dynamic Field Corr.	On
Unfiltered images	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slice group	1
Slices	1
Dist. factor	50 %
Position	L1.2 P14.6 F15.3 mm
Orientation	T > C7.5 > S2.3
Phase enc. dir.	L >> R
Slice group	2
Slices	1
Dist. factor	50 %
Position	L0.0 P14.3 H0.5 mm
Orientation	T > C5.3 > S2.3
Phase enc. dir.	L >> R
Slice group	3
Slices	1
Dist. factor	50 %
Position	R3.7 P15.1 H13.7 mm
Orientation	T > S2.3 > C-0.1
Phase enc. dir.	L >> R
Slice group	4
Slices	1
Dist. factor	50 %

Geometry - Common

Position	R3.3 P18.0 H29.3 mm
Orientation	T > S2.3 > C1.0
Phase enc. dir.	L >> R
Slice group	5
Slices	1
Dist. factor	50 %
Position	R2.9 P18.5 H41.8 mm
Orientation	T > S2.2 > C-0.7
Phase enc. dir.	L >> R
FoV read	105 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
TR	650 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	3

Geometry - AutoAlign

Slice group	1
Position	L1.2 P14.6 F15.3 mm
Orientation	T > C7.5 > S2.3
Phase enc. dir.	L >> R
Slice group	2
Position	L0.0 P14.3 H0.5 mm
Orientation	T > C5.3 > S2.3
Phase enc. dir.	L >> R
Slice group	3
Position	R3.7 P15.1 H13.7 mm
Orientation	T > S2.3 > C-0.1
Phase enc. dir.	L >> R
Slice group	4
Position	R3.3 P18.0 H29.3 mm
Orientation	T > S2.3 > C1.0
Phase enc. dir.	L >> R
Slice group	5
Position	R2.9 P18.5 H41.8 mm
Orientation	T > S2.2 > C-0.7
Phase enc. dir.	L >> R
AutoAlign	---
Initial Position	L1.2 P14.6 F15.3
L	1.2 mm
P	14.6 mm
F	15.3 mm
Initial Rotation	-90.00 deg
Initial Orientation	T > C
T > C	7.5
> S	2.3

Geometry - Saturation

Fat suppr.	None
Special sat.	None

Geometry - Navigator

System - Miscellaneous

Positioning mode	ISO
Table position	H
Table position	10 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Matrix Optimization	Off

System - Miscellaneous

AutoAlign	---
Coil Select Mode	Default

System - Adjustments

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

System - Adjust Volume

! Position	L1.0 P16.9 H11.7 mm
! Orientation	T > S2.3 > C1.7
! Rotation	0.00 deg
! A >> P	32 mm
! R >> L	37 mm
! F >> H	73 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.211835 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	242.000 V

Physio - Signal1

1st Signal/Mode	Pulse/Trigger
Average cycle	998 ± 188 ms
Average cycle	No Signal ms
Acquisition window	650 ms
Trigger pulse	1
Trigger delay	0 ms
TR	650 ms
Concatenations	3
Phases	1

Physio - PACE

Resp. control	Off
Concatenations	3

Diff - Neuro

Diffusion mode	MDDW
Diff. directions	30
Diffusion Scheme	Monopolar
Diff. weightings	1
b-value	0 s/mm²
b-value	3
Diff. weighted images	On
Trace weighted images	Off
ADC maps	Off
FA maps	Off
Mosaic	Off
Tensor	Off
Noise level	40

Diff - Body

Diffusion mode	MDDW
Diff. directions	30
Diffusion Scheme	Monopolar

Diff - Body

Diff. weightings	1
b-value	0 s/mm²
b-value	3
Diff. weighted images	On
Trace weighted images	Off
ADC maps	Off
Exponential ADC Maps	Off
FA maps	Off
Invert Gray Scale	Off
Calculated Image	Off
b-Value >=	0 s/mm²
Noise level	40

Diff - Composing

Distortion Corr.	Off

Sequence - Part 1

Introduction	Off
Optimization	None
Multi-slice mode	Interleaved
Free echo spacing	Off
Echo spacing	1.02 ms
Bandwidth	1116 Hz/Px

Sequence - Part 2

EPI factor	128
RF pulse type	Normal
Gradient mode	Fast*

\\USER\FIL Physics\Nadine\2024_01_17_M700837_THSv3_qMRI\crmbm_ep2d_diff_msma_5s_RL_fwd
TA: 3:18 PM: ISO Voxel size: 0.8×0.8×3.0 mmPAT: 2 Rel. SNR: 1.00 : epse

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	1
Dist. factor	50 %
Position	L1.2 P14.6 F15.3 mm
Orientation	T > C7.5 > S2.3
Phase enc. dir.	R >> L
Slice group	2
Slices	1
Dist. factor	50 %
Position	L0.0 P14.3 H0.5 mm
Orientation	T > C5.3 > S2.3
Phase enc. dir.	R >> L
Slice group	3
Slices	1
Dist. factor	50 %
Position	R3.7 P15.1 H13.7 mm
Orientation	T > S2.3 > C-0.1
Phase enc. dir.	R >> L
Slice group	4
Slices	1
Dist. factor	50 %
Position	R3.3 P18.0 H29.3 mm
Orientation	T > S2.3 > C1.0
Phase enc. dir.	R >> L
Slice group	5
Slices	1
Dist. factor	50 %
Position	R2.9 P18.5 H41.8 mm
Orientation	T > S2.2 > C-0.7
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	25 %
FoV read	105 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
TR	650 ms
TE	57.0 ms
Concatenations	3
Filter	Dynamic Field Corr.
Coil elements	CSP

Contrast - Common

TR	650 ms
TE	57.0 ms
MTC	Off

Contrast - Common

Magn. preparation	None
Flip angle exc	90 deg
Fat suppr.	None

Contrast - Dynamic

Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Delay in TR	0 ms
Multiple series	Off

Resolution - Common

FoV read	105 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
Base resolution	128
Phase resolution	100 %
Phase partial Fourier	5/8
Interpolation	Off

Resolution - iPAT

Accel. mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Reference scan mode	EPI/separate

Resolution - Filter Image

Distortion Corr.	Off
Prescan Normalize	Off
Dynamic Field Corr.	On
Unfiltered images	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slice group	1
Slices	1
Dist. factor	50 %
Position	L1.2 P14.6 F15.3 mm
Orientation	T > C7.5 > S2.3
Phase enc. dir.	R >> L
Slice group	2
Slices	1
Dist. factor	50 %
Position	L0.0 P14.3 H0.5 mm
Orientation	T > C5.3 > S2.3
Phase enc. dir.	R >> L
Slice group	3
Slices	1
Dist. factor	50 %
Position	R3.7 P15.1 H13.7 mm
Orientation	T > S2.3 > C-0.1
Phase enc. dir.	R >> L
Slice group	4
Slices	1
Dist. factor	50 %

Geometry - Common

Position	R3.3 P18.0 H29.3 mm
Orientation	T > S2.3 > C1.0
Phase enc. dir.	R >> L
Slice group	5
Slices	1
Dist. factor	50 %
Position	R2.9 P18.5 H41.8 mm
Orientation	T > S2.2 > C-0.7
Phase enc. dir.	R >> L
FoV read	105 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
TR	650 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	3

Geometry - AutoAlign

Slice group	1
Position	L1.2 P14.6 F15.3 mm
Orientation	T > C7.5 > S2.3
Phase enc. dir.	R >> L
Slice group	2
Position	L0.0 P14.3 H0.5 mm
Orientation	T > C5.3 > S2.3
Phase enc. dir.	R >> L
Slice group	3
Position	R3.7 P15.1 H13.7 mm
Orientation	T > S2.3 > C-0.1
Phase enc. dir.	R >> L
Slice group	4
Position	R3.3 P18.0 H29.3 mm
Orientation	T > S2.3 > C1.0
Phase enc. dir.	R >> L
Slice group	5
Position	R2.9 P18.5 H41.8 mm
Orientation	T > S2.2 > C-0.7
Phase enc. dir.	R >> L
AutoAlign	---
Initial Position	L1.2 P14.6 F15.3
L	1.2 mm
P	14.6 mm
F	15.3 mm
Initial Rotation	90.00 deg
Initial Orientation	T > C
T > C	7.5
> S	2.3

Geometry - Saturation

Fat suppr.	None
Special sat.	None

Geometry - Navigator

System - Miscellaneous

Positioning mode	ISO
Table position	H
Table position	10 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Matrix Optimization	Off

System - Miscellaneous

AutoAlign	---
Coil Select Mode	Default

System - Adjustments

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

System - Adjust Volume

! Position	L1.0 P16.9 H11.7 mm
! Orientation	T > S2.3 > C1.7
! Rotation	0.00 deg
! A >> P	32 mm
! R >> L	37 mm
! F >> H	73 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.211835 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	242.000 V

Physio - Signal1

1st Signal/Mode	Pulse/Trigger
Average cycle	998 ± 188 ms
Average cycle	No Signal ms
Acquisition window	650 ms
Trigger pulse	1
Trigger delay	0 ms
TR	650 ms
Concatenations	3
Phases	1

Physio - PACE

Resp. control	Off
Concatenations	3

Diff - Neuro

Diffusion mode	MDDW
Diff. directions	30
Diffusion Scheme	Monopolar
Diff. weightings	2
b-value 1	0 s/mm²
b-value 2	800 s/mm²
b-value 1	3
b-value 2	3
Diff. weighted images	On
Trace weighted images	Off
ADC maps	Off
FA maps	Off
Mosaic	Off
Tensor	Off
Noise level	40

Diff - Body

Diffusion mode	MDDW

Diff - Body

Diff. directions	30
Diffusion Scheme	Monopolar
Diff. weightings	2
b-value 1	0 s/mm²
b-value 2	800 s/mm²
b-value 1	3
b-value 2	3
Diff. weighted images	On
Trace weighted images	Off
ADC maps	Off
Exponential ADC Maps	Off
FA maps	Off
Invert Gray Scale	Off
Calculated Image	Off
b-Value >=	0 s/mm²
Noise level	40

Diff - Composing

Distortion Corr.	Off

Sequence - Part 1

Introduction	On
Optimization	None
Multi-slice mode	Interleaved
Free echo spacing	Off
Echo spacing	1.02 ms
Bandwidth	1116 Hz/Px

Sequence - Part 2

EPI factor	128
RF pulse type	Normal
Gradient mode	Fast*

SIEMENS MAGNETOM Terra

\\USER\FIL Physics\Nadine\2024_01_17_M700837_THSv3_qMRI\b0map_gre_field_sag_1x1x2_7sl
TA: 1:17 PM: FIX Voxel size: 1.0×1.0×2.0 mmRel. SNR: 1.00 : fm

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	7
Dist. factor	10 %
Position	R0.8 P16.8 H10.2 mm
Orientation	S > T-2.3 > C0.1
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	200.0 ms
TE 1	3.06 ms
TE 2	4.08 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	CSP

Contrast - Common

TR	200.0 ms
TE 1	3.06 ms
TE 2	4.08 ms
MTC	Off
Flip angle	32 deg
Fat suppr.	None

Contrast - Dynamic

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

Resolution - Common

FoV read	192 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
Base resolution	192
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	10 %
Position	R0.8 P16.8 H10.2 mm
Orientation	S > T-2.3 > C0.1
Phase enc. dir.	A >> P
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	200.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice group	1
Position	R0.8 P16.8 H10.2 mm
Orientation	S > T-2.3 > C0.1
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	R0.8 P16.8 H0.2
R	0.8 mm
P	16.8 mm
H	0.2 mm
Initial Rotation	0.00 deg
Initial Orientation	S > T
S > T	-2.3
> C	0.1

Geometry - Saturation

Fat suppr.	None
Special sat.	None

System - Miscellaneous

Positioning mode	FIX
Table position	H
Table position	10 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

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off

System - Adjustments

Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	L1.0 P16.9 H11.7 mm
! Orientation	T > S2.3 > C1.7
! Rotation	0.00 deg
! A >> P	32 mm
! R >> L	37 mm
! F >> H	73 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.211835 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	242.000 V

Sequence - Part 1

Introduction	Off
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Flow comp.	No
Multi-slice mode	Interleaved
Bandwidth	965 Hz/Px

Sequence - Part 2

RF pulse type	Normal
Gradient mode	Normal
RF spoiling	On

Sequence - Assistant

Mode	Off

SIEMENS MAGNETOM Terra

\\USER\FIL Physics\Nadine\2024_01_17_M700837_THSv3_qMRI\MGE_5TE_msma_5x2sl_2meas
TA: 7:43 PM: FIX Voxel size: 0.3×0.3×3.0 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 preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
Slices	2
Dist. factor	100 %
Position	L1.2 P14.6 F15.3 mm
Orientation	T > C7.5 > S2.3
Phase enc. dir.	A >> P
Slice group	2
Slices	2
Dist. factor	100 %
Position	L0.0 P14.3 H0.5 mm
Orientation	T > C5.3 > S2.3
Phase enc. dir.	A >> P
Slice group	3
Slices	2
Dist. factor	100 %
Position	R3.7 P15.1 H13.7 mm
Orientation	T > S2.3 > C-0.1
Phase enc. dir.	A >> P
Slice group	4
Slices	2
Dist. factor	100 %
Position	R3.3 P18.0 H29.3 mm
Orientation	T > S2.3 > C1.0
Phase enc. dir.	A >> P
Slice group	5
Slices	2
Dist. factor	100 %
Position	R2.9 P18.5 H41.8 mm
Orientation	T > S2.2 > C-0.7
Phase enc. dir.	A >> P
Slice group	6
Slices	2
Dist. factor	100 %
Position	L1.8 P17.1 F30.4 mm
Orientation	T > C7.5 > S2.3
Phase enc. dir.	A >> P
Slice group	7
Slices	2
Dist. factor	100 %
Position	L2.5 P16.8 F46.5 mm
Orientation	T > C7.5 > S2.3
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	128 mm
FoV phase	100.0 %
Slice thickness	3.0 mm

Routine

TR	461.0 ms
TE 1	4.55 ms
TE 2	8.81 ms
TE 3	13.07 ms
TE 4	17.33 ms
TE 5	21.59 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	CSP

Contrast - Common

TR	461.0 ms
TE 1	4.55 ms
TE 2	8.81 ms
TE 3	13.07 ms
TE 4	17.33 ms
TE 5	21.59 ms
MTC	Off
Magn. preparation	None
Flip angle	39 deg
Fat suppr.	None
Water suppr.	None
SWI	Off

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	2
Pause after meas. 1	0.0 s
Multiple series	Off

Resolution - Common

FoV read	128 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
Base resolution	500
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

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

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slice group	1
Slices	2
Dist. factor	100 %

Geometry - Common

Position	L1.2 P14.6 F15.3 mm
Orientation	T > C7.5 > S2.3
Phase enc. dir.	A >> P
Slice group	2
Slices	2
Dist. factor	100 %
Position	L0.0 P14.3 H0.5 mm
Orientation	T > C5.3 > S2.3
Phase enc. dir.	A >> P
Slice group	3
Slices	2
Dist. factor	100 %
Position	R3.7 P15.1 H13.7 mm
Orientation	T > S2.3 > C-0.1
Phase enc. dir.	A >> P
Slice group	4
Slices	2
Dist. factor	100 %
Position	R3.3 P18.0 H29.3 mm
Orientation	T > S2.3 > C1.0
Phase enc. dir.	A >> P
Slice group	5
Slices	2
Dist. factor	100 %
Position	R2.9 P18.5 H41.8 mm
Orientation	T > S2.2 > C-0.7
Phase enc. dir.	A >> P
Slice group	6
Slices	2
Dist. factor	100 %
Position	L1.8 P17.1 F30.4 mm
Orientation	T > C7.5 > S2.3
Phase enc. dir.	A >> P
Slice group	7
Slices	2
Dist. factor	100 %
Position	L2.5 P16.8 F46.5 mm
Orientation	T > C7.5 > S2.3
Phase enc. dir.	A >> P
FoV read	128 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
TR	461.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice group	1
Position	L1.2 P14.6 F15.3 mm
Orientation	T > C7.5 > S2.3
Phase enc. dir.	A >> P
Slice group	2
Position	L0.0 P14.3 H0.5 mm
Orientation	T > C5.3 > S2.3
Phase enc. dir.	A >> P
Slice group	3
Position	R3.7 P15.1 H13.7 mm
Orientation	T > S2.3 > C-0.1
Phase enc. dir.	A >> P
Slice group	4
Position	R3.3 P18.0 H29.3 mm
Orientation	T > S2.3 > C1.0
Phase enc. dir.	A >> P

Geometry - AutoAlign

Slice group	5
Position	R2.9 P18.5 H41.8 mm
Orientation	T > S2.2 > C-0.7
Phase enc. dir.	A >> P
Slice group	6
Position	L1.8 P17.1 F30.4 mm
Orientation	T > C7.5 > S2.3
Phase enc. dir.	A >> P
Slice group	7
Position	L2.5 P16.8 F46.5 mm
Orientation	T > C7.5 > S2.3
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L1.2 P14.6 F25.3
L	1.2 mm
P	14.6 mm
F	25.3 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	7.5
> S	2.3

Geometry - Saturation

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

Geometry - Tim CT

Tim CT mode	Off
Slices	2
Slice thickness	3.0 mm
Dist. factor	100 %
FoV read	128 mm
FoV phase	100.0 %
Segments	1

System - Miscellaneous

Positioning mode	FIX
Table position	H
Table position	10 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	L0.5 P18.2 F2.8 mm
! Orientation	T > C3.4 > S2.3
! Rotation	-0.07 deg
! A >> P	32 mm

System - Adjust Volume

! R >> L	42 mm
! F >> H	106 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.211835 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	242.000 V

Physio - Signal1

1st Signal/Mode	None
TR	461.0 ms
Concatenations	1
Segments	1

Physio - Cardiac

Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	128 mm
FoV phase	100.0 %
Phase resolution	100 %

Physio - PACE

Resp. control	Off
Concatenations	1

Inline - Common

Subtract	Off
Measurements	2
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	2
Pause after meas. 1	0.0 s

Inline - Composing

Distortion Corr.	Off

Sequence - Part 1

Introduction	On
Dimension	2D
Phase stabilisation	On
Asymmetric echo	Off
Contrasts	5
Flow comp. 1	No

Sequence - Part 1

Readout mode	Bipolar
Multi-slice mode	Interleaved
Bandwidth 1	250 Hz/Px
Bandwidth 2	250 Hz/Px
Bandwidth 3	250 Hz/Px
Bandwidth 4	250 Hz/Px
Bandwidth 5	250 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

Sequence - Assistant

Mode	Off