Table of contents

\\USER
OHBA Projects VE11C
2017_110 TMS Plasticity 2
Copy of 2017_110 TMS PLASTICITY 2
localizer_3D_2 (9X5X5)
t1_mpr_ax_1mm_iso_withNose_32ch_v2
bold_mbep2d_MB6PAT2_resting_state_AP_208mm
fieldmap_gre_2mm_208mm
mfc_seste_b1map_2DipatOffline3D
fieldmap_gre_2mm_iso
mfc_3dflash_SMAP_HC_master
mfc_3dflash_SMAP_BC
mfc_3dflash_PDw_GRAPPA4_PSN_488BW
mfc_3dflash_SMAP_HC
mfc_3dflash_SMAP_BC
mfc_3dflash_T1w_GRAPPA4_PSN_488BW
mfc_3dflash_SMAP_HC
mfc_3dflash_SMAP_BC
mfc_3dflash_MTw_GRAPPA4
diff_mbep2d_1.5mm_AP_MB4_256DIR_B1000B2000
diff_mbep2d_1.5mm_APrev_MB4_Bzeros
diff_mbep2d_3mm_AP_MB8_256DIR_B1000B2000

\\USER\OHBA Projects VE11C\2017_110 TMS Plasticity 2\Copy of 2017_110 TMS PLASTICITY 2\localizer_3D_2 (9X5X5)

TA: 0:40 PM: REF Voxel size: 0.5×0.5×6.0 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	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	5
Dist. factor	225 %
Position	R0.6 A23.6 F30.5 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	3
Dist. factor	250 %
Position	L2.7 A19.8 F31.4 mm
Orientation	Coronal
Phase enc. dir.	R >> L
Slice group	3
Slices	3
Dist. factor	225 %
Position	L3.5 A23.8 F20.6 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	250 mm
FoV phase	100.0 %
Slice thickness	6.0 mm
TR	7.6 ms
TE	3.04 ms
Averages	2
Concatenations	11
Filter	Distortion Corr.(2D), Prescan Normalize, Elliptical filter
Coil elements	HEA;HEP

Contrast - Common

TR	7.6 ms
TE	3.04 ms
TD	0 ms
MTC	Off
Magn. preparation	None
Flip angle	20 deg
Fat suppr.	None
Water suppr.	None
SWI	Off

Contrast - Dynamic

Averages	2
Averaging mode	Short term

Contrast - Dynamic

Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution - Common

FoV read	250 mm
FoV phase	100.0 %
Slice thickness	6.0 mm
Base resolution	256
Phase resolution	91 %
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	On
Unfiltered images	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	On

Geometry - Common

Slice group	1
Slices	5
Dist. factor	225 %
Position	R0.6 A23.6 F30.5 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	3
Dist. factor	250 %
Position	L2.7 A19.8 F31.4 mm
Orientation	Coronal
Phase enc. dir.	R >> L
Slice group	3
Slices	3
Dist. factor	225 %
Position	L3.5 A23.8 F20.6 mm
Orientation	Transversal
Phase enc. dir.	A >> P
FoV read	250 mm
FoV phase	100.0 %
Slice thickness	6.0 mm
TR	7.6 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	11

Geometry - AutoAlign

Slice group	1
Position	R0.6 A23.6 F30.5 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Position	L2.7 A19.8 F31.4 mm
Orientation	Coronal
Phase enc. dir.	R >> L
Slice group	3
Position	L3.5 A23.8 F20.6 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	R0.6 A23.6 F30.5
R	0.6 mm
A	23.6 mm
F	30.5 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

Geometry - Saturation

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

System - Miscellaneous

Positioning mode	REF
Table position	H
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	On - AutoCoilSelect

System - Adjustments

B0 Shim mode	Tune up
B1 Shim mode	TrueForm
Adjust with body coil	Off
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 - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slice-sel.

System - Tx/Rx

Frequency 1H	123.259549 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	7.6 ms
Concatenations	11
Segments	1

Physio - Cardiac

Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	250 mm
FoV phase	100.0 %
Phase resolution	91 %

Physio - PACE

Resp. control	Off
Concatenations	11

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	None
RF pulse type	Normal
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On

Sequence - Assistant

Mode	Off
Allowed delay	0 s

\\USER\OHBA Projects VE11C\2017_110 TMS Plasticity 2\Copy of 2017_110 TMS PLASTICITY 2\t1_mpr_ax_1mm_iso_withNose_32ch_v2

TA: 4:01 PM: REF Voxel size: 1.0×1.0×1.0 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	On
Start measurements	Single measurement

Routine

Slab group	1
Slabs	1
Dist. factor	50 %
Position	R1.2 A6.5 H13.2 mm
Orientation	T > C-16.6 > S1.2
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	192
FoV read	256 mm
FoV phase	90.6 %
Slice thickness	1.00 mm
TR	1900.0 ms
TE	3.96 ms
Averages	1
Concatenations	1
Filter	Raw filter, Prescan Normalize
Coil elements	HEA;HEP

Contrast - Common

TR	1900.0 ms
TE	3.96 ms
Magn. preparation	Non-sel. IR
TI	912 ms
Flip angle	8 deg
Fat suppr.	Water excit. normal
Water suppr.	None

Contrast - Dynamic

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

Resolution - Common

FoV read	256 mm
FoV phase	90.6 %
Slice thickness	1.00 mm
Base resolution	256
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off

Resolution - Common

Slice partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Accel. factor 3D	1
Reference scan mode	Integrated

Resolution - Filter Image

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

Resolution - Filter Rawdata

Raw filter	On
Elliptical filter	Off

Geometry - Common

Slab group	1
Slabs	1
Dist. factor	50 %
Position	R1.2 A6.5 H13.2 mm
Orientation	T > C-16.6 > S1.2
Phase enc. dir.	R >> L
Slice oversampling	0.0 %
Slices per slab	192
FoV read	256 mm
FoV phase	90.6 %
Slice thickness	1.00 mm
TR	1900.0 ms
Multi-slice mode	Single shot
Series	Ascending
Concatenations	1

Geometry - AutoAlign

Slab group	1
Position	R1.2 A6.5 H13.2 mm
Orientation	T > C-16.6 > S1.2
Phase enc. dir.	R >> L
AutoAlign	---
Initial Position	R1.2 A6.5 H13.2
R	1.2 mm
A	6.5 mm
H	13.2 mm
Initial Rotation	90.00 deg
Initial Orientation	T > C
T > C	-16.6
> S	1.2

Geometry - Navigator

System - Miscellaneous

Positioning mode	REF

System - Miscellaneous

Table position	H
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	Off - All

System - Adjustments

B0 Shim mode	Standard
B1 Shim mode	TrueForm
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R1.2 A6.5 H13.2 mm
Orientation	T > C-16.6 > S1.2
Rotation	90.00 deg
R >> L	232 mm
A >> P	256 mm
F >> H	192 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slab-sel.

System - Tx/Rx

Frequency 1H	123.259549 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Physio - Signal1

1st Signal/Mode	None
TR	1900.0 ms
Concatenations	1

Physio - Cardiac

Magn. preparation	Non-sel. IR
TI	912 ms
Fat suppr.	Water excit. normal
Dark blood	Off
FoV read	256 mm
FoV phase	90.6 %
Phase resolution	100 %

Physio - PACE

Resp. control	Off
Concatenations	1

Inline - Common

Subtract	Off
Measurements	1

Inline - Common

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.	Off

Sequence - Part 1

Introduction	Off
Dimension	3D
Elliptical scanning	Off
Reordering	Linear
Asymmetric echo	Allowed
Flow comp.	No
Multi-slice mode	Single shot
Echo spacing	9.2 ms
Bandwidth	200 Hz/Px

Sequence - Part 2

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

Sequence - Assistant

Mode	Off

\\USER\OHBA Projects VE11C\2017_110 TMS Plasticity 2\Copy of 2017_110 TMS PLASTICITY 2\bold _mbep2d_MB6PAT2_resting_state_AP_208mm

TA: 10:22 PM: FIX Voxel size: 2.0×2.0×2.0 mmPAT: 2 Rel. SNR: 1.00 : epfid

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	On
Start measurements	Single measurement

Routine

Slice group	1
Slices	72
Dist. factor	0 %
Position	L0.0 P0.5 H22.4 mm
Orientation	T > C-30.0
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	208 mm
FoV phase	100.0 %
Slice thickness	2.00 mm
TR	750 ms
TE	29.00 ms
Multi-band accel. factor	6
Filter	None
Coil elements	HEA;HEP

Contrast - Common

TR	750 ms
TE	29.00 ms
MTC	Off
Magn. preparation	None
Flip angle	55 deg
Fat suppr.	Fat sat.

Contrast - Dynamic

Averaging mode	Long term
Reconstruction	Magnitude
Measurements	800
Delay in TR	0 ms
Multiple series	Off

Resolution - Common

FoV read	208 mm
FoV phase	100.0 %
Slice thickness	2.00 mm
Base resolution	104
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24

Resolution - iPAT

Reference scan mode	Single-shot

Resolution - Filter Image

Distortion Corr.	Off
Prescan Normalize	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off
Hamming	Off

Geometry - Common

Slice group	1
Slices	72
Dist. factor	0 %
Position	L0.0 P0.5 H22.4 mm
Orientation	T > C-30.0
Phase enc. dir.	A >> P
FoV read	208 mm
FoV phase	100.0 %
Slice thickness	2.00 mm
TR	750 ms
Multi-slice mode	Interleaved
Series	Interleaved
Multi-band accel. factor	6

Geometry - AutoAlign

Slice group	1
Position	L0.0 P0.5 H22.4 mm
Orientation	T > C-30.0
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L0.0 P0.5 H22.4
L	0.0 mm
P	0.5 mm
H	22.4 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	-30.0
> S	0.0

Geometry - Saturation

Fat suppr.	Fat sat.
Special sat.	None

System - Miscellaneous

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

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	TrueForm
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	L0.0 P0.5 H22.4 mm
Orientation	T > C-30.0
Rotation	0.00 deg
A >> P	208 mm
R >> L	208 mm
F >> H	144 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Standard

System - Tx/Rx

Frequency 1H	123.259549 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	750 ms
Multi-band accel. factor	6

BOLD

GLM Statistics	Off
Dynamic t-maps	Off
Ignore meas. at start	0
Ignore after transition	0
Model transition states	Off
Temp. highpass filter	Off
Threshold	4.00
Paradigm size	20
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Baseline
Meas[4]	Baseline
Meas[5]	Baseline
Meas[6]	Baseline
Meas[7]	Baseline
Meas[8]	Baseline
Meas[9]	Baseline
Meas[10]	Baseline
Meas[11]	Active
Meas[12]	Active
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Meas[16]	Active
Meas[17]	Active
Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off

BOLD

Spatial filter	Off
Measurements	800
Delay in TR	0 ms
Multiple series	Off

Sequence - Part 1

Introduction	Off
Contrasts	1
Flow comp.	No
Multi-slice mode	Interleaved
Free echo spacing	Off
Echo spacing	0.55 ms
Bandwidth	2404 Hz/Px

Sequence - Part 2

EPI factor	104
Gradient mode	Performance*
Excitation	Standard
RF spoiling	Off

Sequence - Special

Excite pulse duration	8300 us
Single-band images	On
MB LeakBlock kernel	On
MB dual kernel	Off
MB RF phase scramble	Off
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Disable freq. update	Off
Force equal slice timing	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard

\\USER\OHBA Projects VE11C\2017_110 TMS Plasticity 2\Copy of 2017_110 TMS PLASTICITY 2\field map_gre_2mm_208mm

TA: 1:41 PM: FIX Voxel size: 2.0×2.0×2.0 mmRel. SNR: 1.00 : fm_r

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	On
Start measurements	Single measurement

Routine

Slice group	1
Slices	49
Dist. factor	50 %
Position	L0.0 P0.5 H22.4 mm
Orientation	T > C-30.0
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	0 %
FoV read	208 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	482.0 ms
TE 1	4.92 ms
TE 2	7.38 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast - Common

TR	482.0 ms
TE 1	4.92 ms
TE 2	7.38 ms
MTC	Off
Flip angle	46 deg
Fat suppr.	None

Contrast - Dynamic

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

Resolution - Common

FoV read	208 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
Base resolution	104
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	49
Dist. factor	50 %
Position	L0.0 P0.5 H22.4 mm
Orientation	T > C-30.0
Phase enc. dir.	R >> L
FoV read	208 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	482.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice group	1
Position	L0.0 P0.5 H22.4 mm
Orientation	T > C-30.0
Phase enc. dir.	R >> L
AutoAlign	---
Initial Position	L0.0 P0.5 H22.4
L	0.0 mm
P	0.5 mm
H	22.4 mm
Initial Rotation	90.00 deg
Initial Orientation	T > C
T > C	-30.0
> S	0.0

Geometry - Saturation

Fat suppr.	None
Special sat.	None

System - Miscellaneous

Positioning mode	FIX
Table position	H
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 - All

System - Adjustments

B0 Shim mode	Standard

System - Adjustments

B1 Shim mode	TrueForm
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	L0.0 P0.5 H22.4 mm
! Orientation	T > C-30.0
! Rotation	0.00 deg
! A >> P	208 mm
! R >> L	208 mm
! F >> H	144 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm

System - Tx/Rx

Frequency 1H	123.259549 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Sequence - Part 1

Introduction	Off
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Flow comp.	Yes
Multi-slice mode	Interleaved
Bandwidth	616 Hz/Px

Sequence - Part 2

RF pulse type	Normal
Gradient mode	Fast
RF spoiling	On

Sequence - Assistant

Mode	Off

\\USER\OHBA Projects VE11C\2017_110 TMS Plasticity 2\Copy of 2017_110 TMS PLASTICITY 2\mfc_seste_b1map_2DipatOffline3D

TA: 3:00 PM: REF Voxel size: 4.0×4.0×4.0 mmPAT: 4 Rel. SNR: 1.00 : seste1e

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
Position	L0.0 A24.1 H7.0 mm
Orientation	Transversal
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	48
FoV read	256 mm
FoV phase	75.0 %
Slice thickness	4.0 mm
TR	500.00 ms
TE 1	39.06 ms
TE 2	130.00 ms
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast - Common

TR	500.00 ms
TE 1	39.06 ms
TE 2	130.00 ms
Fat suppr.	Fat sat.

Contrast - Dynamic

Reconstruction	Magnitude
Measurements	11

Resolution - Common

FoV read	256 mm
FoV phase	75.0 %
Slice thickness	4.0 mm
Base resolution	64
Phase resolution	100 %
Slice resolution	100 %

Resolution - iPAT

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	48
Accel. factor 3D	2
Ref. lines 3D	48
Reference scan mode	GRE/separate

Resolution - Filter Image

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

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slab group	1
Slabs	1
Position	L0.0 A24.1 H7.0 mm
Orientation	Transversal
Phase enc. dir.	R >> L
Slice oversampling	0.0 %
Slices per slab	48
FoV read	256 mm
FoV phase	75.0 %
Slice thickness	4.0 mm
TR	500.00 ms
Concatenations	1

Geometry - AutoAlign

Slab group	1
Position	L0.0 A24.1 H7.0 mm
Orientation	Transversal
Phase enc. dir.	R >> L
AutoAlign	---
Initial Position	L0.0 A24.1 H7.0
L	0.0 mm
A	24.1 mm
H	7.0 mm
Initial Rotation	90.00 deg
Initial Orientation	Transversal

System - Miscellaneous

Positioning mode	REF
Table position	H
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	Default

System - Adjustments

B0 Shim mode	Standard
B1 Shim mode	TrueForm
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	L0.0 A24.1 H7.0 mm
Orientation	Transversal
Rotation	90.00 deg
R >> L	192 mm
A >> P	256 mm
F >> H	192 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm

System - Tx/Rx

Frequency 1H	123.259549 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Sequence - Part 1

Dimension	3D
Contrasts	2
Bandwidth	2298 Hz/Px

Sequence - Part 2

Gradient mode	Performance
RF spoiling	Off

Sequence - Special

VoxDeph	24 2pi
SpoilAmp	10 mT/m
EddCurr0	1000 usec
EddCurr1	2000 usec
TRamp	140 usec
TFlat	260 usec
BWT	6 No unit
SlabGradScale	15.0
Refoc. Corr	6.0
IceProgram	IceProgram2DiPatOffline3D
Noise Adjust	Off
RF Spoil Basic Inc	50.0 deg
Trigger Type	Cogent
TM	33800 us

Sequence - Assistant

Mode	Off

\\USER\OHBA Projects VE11C\2017_110 TMS Plasticity 2\Copy of 2017_110 TMS PLASTICITY 2\field map_gre_2mm_iso

TA: 2:13 PM: FIX Voxel size: 3.0×3.0×2.0 mmRel. SNR: 1.00 : fm_r

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	On
Start measurements	Single measurement

Routine

Slice group	1
Slices	64
Dist. factor	50 %
Position	L0.0 A7.1 H7.9 mm
Orientation	Transversal
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	0 %
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	1020.0 ms
TE 1	10.00 ms
TE 2	12.46 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast - Common

TR	1020.0 ms
TE 1	10.00 ms
TE 2	12.46 ms
MTC	Off
Flip angle	90 deg
Fat suppr.	None

Contrast - Dynamic

Averages	1
Averaging mode	Long 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	64
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	64
Dist. factor	50 %
Position	L0.0 A7.1 H7.9 mm
Orientation	Transversal
Phase enc. dir.	R >> L
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	1020.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice group	1
Position	L0.0 A7.1 H7.9 mm
Orientation	Transversal
Phase enc. dir.	R >> L
AutoAlign	---
Initial Position	L0.0 A7.1 H7.9
L	0.0 mm
A	7.1 mm
H	7.9 mm
Initial Rotation	90.00 deg
Initial Orientation	Transversal

Geometry - Saturation

Fat suppr.	None
Special sat.	None

System - Miscellaneous

Positioning mode	FIX
Table position	H
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 - All

System - Adjustments

B0 Shim mode	Standard
B1 Shim mode	TrueForm
Adjust with body coil	Off

System - Adjustments

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

System - Adjust Volume

! Position	L0.0 A24.1 H7.0 mm
! Orientation	Transversal
! Rotation	90.00 deg
! R >> L	192 mm
! A >> P	256 mm
! F >> H	192 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm

System - Tx/Rx

Frequency 1H	123.259549 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Sequence - Part 1

Introduction	Off
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Flow comp.	Yes
Multi-slice mode	Interleaved
Bandwidth	260 Hz/Px

Sequence - Part 2

RF pulse type	Normal
Gradient mode	Fast
RF spoiling	On

Sequence - Assistant

Mode	Off

\\USER\OHBA Projects VE11C\2017_110 TMS Plasticity 2\Copy of 2017_110 TMS PLASTICITY 2\mfc_3dflash_SMAP_HC_master

TA: 0:12 PM: FIX Voxel size: 4.0×4.0×4.0 mmPAT: Off Rel. SNR: 1.00 : fl3d_1i

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
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Slice oversampling	0.0 %
Slices per slab	44
FoV read	256 mm
FoV phase	87.5 %
Slice thickness	4.00 mm
TR	5.23 ms
TE 1	2.00 ms
TE 2	0.00 ms
TE 3	0.00 ms
TE 4	0.00 ms
TE 5	0.00 ms
TE 6	0.00 ms
TE 7	0.00 ms
TE 8	0.00 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
TE 17	0.00 ms
TE 18	0.00 ms
TE 19	0.00 ms
TE 20	0.00 ms
TE 21	0.00 ms
TE 22	0.00 ms
TE 23	0.00 ms
TE 24	0.00 ms
TE 25	0.00 ms
TE 26	0.00 ms
TE 27	0.00 ms
TE 28	0.00 ms
TE 29	0.00 ms
TE 30	0.00 ms
TE 31	0.00 ms
TE 32	0.00 ms
Concatenations	1
Filter	None

Routine

Coil elements	HEA;HEP

Contrast - Common

TR	5.23 ms
TE 1	2.00 ms
TE 2	0.00 ms
TE 3	0.00 ms
TE 4	0.00 ms
TE 5	0.00 ms
TE 6	0.00 ms
TE 7	0.00 ms
TE 8	0.00 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
TE 17	0.00 ms
TE 18	0.00 ms
TE 19	0.00 ms
TE 20	0.00 ms
TE 21	0.00 ms
TE 22	0.00 ms
TE 23	0.00 ms
TE 24	0.00 ms
TE 25	0.00 ms
TE 26	0.00 ms
TE 27	0.00 ms
TE 28	0.00 ms
TE 29	0.00 ms
TE 30	0.00 ms
TE 31	0.00 ms
TE 32	0.00 ms
MTC	Off
Flip angle	6 deg

Contrast - Dynamic

Reconstruction	Magnitude

Resolution - Common

FoV read	256 mm
FoV phase	87.5 %
Slice thickness	4.00 mm
Base resolution	64
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off

Resolution - Filter Image

Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slab group	1
Slabs	1
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	44
FoV read	256 mm
FoV phase	87.5 %
Slice thickness	4.00 mm
TR	5.23 ms
Concatenations	1

Geometry - AutoAlign

Slab group	1
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L0.0 A16.1 F15.6
L	0.0 mm
A	16.1 mm
F	15.6 mm
Initial Rotation	30.00 deg
Initial Orientation	Sagittal

System - Miscellaneous

Positioning mode	FIX
Table position	H
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	Default

System - Adjustments

B0 Shim mode	Standard
B1 Shim mode	TrueForm
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Rotation	30.00 deg
A >> P	224 mm
F >> H	256 mm
R >> L	176 mm

System - Adjust Volume

Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm

System - Tx/Rx

Frequency 1H	123.259549 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Sequence - Part 1

Dimension	3D
Elliptical scanning	On
Contrasts	1
Bandwidth	1015 Hz/Px

Sequence - Part 2

Gradient mode	Performance
RF spoiling	On

Sequence - Special

Noise Adjust	On
RF Spoiling Increment	137.0 Degrees
Trajectory	Partitions in Lines
Prewinder (PE, RO) Ramp.	220 us
Prewinder (PE, RO) Dur.	610 us
Readout Ramp	110 us
RF Pulse Duration	160 us
Excitation	Non-Selective
Reconstruction	ICE
Bandwidth Time Product	6.0

Sequence - Assistant

Mode	Off

\\USER\OHBA Projects VE11C\2017_110 TMS Plasticity 2\Copy of 2017_110 TMS PLASTICITY 2\mfc_3dflash_SMAP_BC

TA: 0:12 PM: FIX Voxel size: 4.0×4.0×4.0 mmPAT: Off Rel. SNR: 1.00 : fl3d_1i

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
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Slice oversampling	0.0 %
Slices per slab	44
FoV read	256 mm
FoV phase	87.5 %
Slice thickness	4.00 mm
TR	5.23 ms
TE 1	2.00 ms
TE 2	0.00 ms
TE 3	0.00 ms
TE 4	0.00 ms
TE 5	0.00 ms
TE 6	0.00 ms
TE 7	0.00 ms
TE 8	0.00 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
TE 17	0.00 ms
TE 18	0.00 ms
TE 19	0.00 ms
TE 20	0.00 ms
TE 21	0.00 ms
TE 22	0.00 ms
TE 23	0.00 ms
TE 24	0.00 ms
TE 25	0.00 ms
TE 26	0.00 ms
TE 27	0.00 ms
TE 28	0.00 ms
TE 29	0.00 ms
TE 30	0.00 ms
TE 31	0.00 ms
TE 32	0.00 ms
Concatenations	1
Filter	None

Routine

Coil elements	HEA;HEP

Contrast - Common

TR	5.23 ms
TE 1	2.00 ms
TE 2	0.00 ms
TE 3	0.00 ms
TE 4	0.00 ms
TE 5	0.00 ms
TE 6	0.00 ms
TE 7	0.00 ms
TE 8	0.00 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
TE 17	0.00 ms
TE 18	0.00 ms
TE 19	0.00 ms
TE 20	0.00 ms
TE 21	0.00 ms
TE 22	0.00 ms
TE 23	0.00 ms
TE 24	0.00 ms
TE 25	0.00 ms
TE 26	0.00 ms
TE 27	0.00 ms
TE 28	0.00 ms
TE 29	0.00 ms
TE 30	0.00 ms
TE 31	0.00 ms
TE 32	0.00 ms
MTC	Off
Flip angle	6 deg

Contrast - Dynamic

Reconstruction	Magnitude

Resolution - Common

FoV read	256 mm
FoV phase	87.5 %
Slice thickness	4.00 mm
Base resolution	64
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off

Resolution - Filter Image

Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slab group	1
Slabs	1
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	44
FoV read	256 mm
FoV phase	87.5 %
Slice thickness	4.00 mm
TR	5.23 ms
Concatenations	1

Geometry - AutoAlign

Slab group	1
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L0.0 A16.1 F15.6
L	0.0 mm
A	16.1 mm
F	15.6 mm
Initial Rotation	30.00 deg
Initial Orientation	Sagittal

System - Miscellaneous

Positioning mode	FIX
Table position	H
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	Default

System - Adjustments

B0 Shim mode	Standard
B1 Shim mode	TrueForm
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Rotation	30.00 deg
A >> P	224 mm
F >> H	256 mm
R >> L	176 mm

System - Adjust Volume

Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm

System - Tx/Rx

Frequency 1H	123.259549 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Sequence - Part 1

Dimension	3D
Elliptical scanning	On
Contrasts	1
Bandwidth	1015 Hz/Px

Sequence - Part 2

Gradient mode	Performance
RF spoiling	On

Sequence - Special

Noise Adjust	On
RF Spoiling Increment	137.0 Degrees
Trajectory	Partitions in Lines
Prewinder (PE, RO) Ramp.	220 us
Prewinder (PE, RO) Dur.	610 us
Readout Ramp	110 us
RF Pulse Duration	160 us
Excitation	Non-Selective
Reconstruction	ICE
Bandwidth Time Product	6.0

Sequence - Assistant

Mode	Off

\\USER\OHBA Projects VE11C\2017_110 TMS Plasticity 2\Copy of 2017_110 TMS PLASTICITY 2\mfc_3dflash_PDw_GRAPPA4_PSN_488BW

TA: 4:42 PM: FIX Voxel size: 1.0×1.0×1.0 mmPAT: 4 Rel. SNR: 1.00 : fl3d_1i

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
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Slice oversampling	0.0 %
Slices per slab	176
FoV read	256 mm
FoV phase	87.5 %
Slice thickness	1.00 mm
TR	25.00 ms
TE 1	2.30 ms
TE 2	4.60 ms
TE 3	6.90 ms
TE 4	9.20 ms
TE 5	11.50 ms
TE 6	13.80 ms
TE 7	16.10 ms
TE 8	18.40 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
TE 17	0.00 ms
TE 18	0.00 ms
TE 19	0.00 ms
TE 20	0.00 ms
TE 21	0.00 ms
TE 22	0.00 ms
TE 23	0.00 ms
TE 24	0.00 ms
TE 25	0.00 ms
TE 26	0.00 ms
TE 27	0.00 ms
TE 28	0.00 ms
TE 29	0.00 ms
TE 30	0.00 ms
TE 31	0.00 ms
TE 32	0.00 ms
Concatenations	1
Filter	Prescan Normalize

Routine

Coil elements	HEA;HEP

Contrast - Common

TR	25.00 ms
TE 1	2.30 ms
TE 2	4.60 ms
TE 3	6.90 ms
TE 4	9.20 ms
TE 5	11.50 ms
TE 6	13.80 ms
TE 7	16.10 ms
TE 8	18.40 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
TE 17	0.00 ms
TE 18	0.00 ms
TE 19	0.00 ms
TE 20	0.00 ms
TE 21	0.00 ms
TE 22	0.00 ms
TE 23	0.00 ms
TE 24	0.00 ms
TE 25	0.00 ms
TE 26	0.00 ms
TE 27	0.00 ms
TE 28	0.00 ms
TE 29	0.00 ms
TE 30	0.00 ms
TE 31	0.00 ms
TE 32	0.00 ms
MTC	Off
Flip angle	6 deg

Contrast - Dynamic

Reconstruction	Magnitude

Resolution - Common

FoV read	256 mm
FoV phase	87.5 %
Slice thickness	1.00 mm
Base resolution	256
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off

Resolution - iPAT

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	40
Accel. factor 3D	2
Ref. lines 3D	40
Reference scan mode	Integrated

Resolution - Filter Image

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

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slab group	1
Slabs	1
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	176
FoV read	256 mm
FoV phase	87.5 %
Slice thickness	1.00 mm
TR	25.00 ms
Concatenations	1

Geometry - AutoAlign

Slab group	1
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L0.0 A16.1 F15.6
L	0.0 mm
A	16.1 mm
F	15.6 mm
Initial Rotation	30.00 deg
Initial Orientation	Sagittal

System - Miscellaneous

Positioning mode	FIX
Table position	H
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	Default

System - Adjustments

B0 Shim mode	Standard
B1 Shim mode	TrueForm
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal

System - Adjust Volume

Rotation	30.00 deg
A >> P	224 mm
F >> H	256 mm
R >> L	176 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm

System - Tx/Rx

Frequency 1H	123.259549 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Sequence - Part 1

Dimension	3D
Elliptical scanning	Off
Contrasts	8
Bandwidth	488 Hz/Px

Sequence - Part 2

Gradient mode	Performance
RF spoiling	On

Sequence - Special

Noise Adjust	On
RF Spoiling Increment	137.0 Degrees
Trajectory	Partitions in Lines
Prewinder (PE, RO) Ramp.	220 us
Prewinder (PE, RO) Dur.	610 us
Readout Ramp	110 us
RF Pulse Duration	160 us
Excitation	Non-Selective
Reconstruction	ICE
Bandwidth Time Product	6.0

Sequence - Assistant

Mode	Off

\\USER\OHBA Projects VE11C\2017_110 TMS Plasticity 2\Copy of 2017_110 TMS PLASTICITY 2\mfc_3dflash_SMAP_HC

TA: 0:12 PM: FIX Voxel size: 4.0×4.0×4.0 mmPAT: Off Rel. SNR: 1.00 : fl3d_1i

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
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Slice oversampling	0.0 %
Slices per slab	44
FoV read	256 mm
FoV phase	87.5 %
Slice thickness	4.00 mm
TR	5.23 ms
TE 1	2.00 ms
TE 2	0.00 ms
TE 3	0.00 ms
TE 4	0.00 ms
TE 5	0.00 ms
TE 6	0.00 ms
TE 7	0.00 ms
TE 8	0.00 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
TE 17	0.00 ms
TE 18	0.00 ms
TE 19	0.00 ms
TE 20	0.00 ms
TE 21	0.00 ms
TE 22	0.00 ms
TE 23	0.00 ms
TE 24	0.00 ms
TE 25	0.00 ms
TE 26	0.00 ms
TE 27	0.00 ms
TE 28	0.00 ms
TE 29	0.00 ms
TE 30	0.00 ms
TE 31	0.00 ms
TE 32	0.00 ms
Concatenations	1
Filter	None

Routine

Coil elements	HEA;HEP

Contrast - Common

TR	5.23 ms
TE 1	2.00 ms
TE 2	0.00 ms
TE 3	0.00 ms
TE 4	0.00 ms
TE 5	0.00 ms
TE 6	0.00 ms
TE 7	0.00 ms
TE 8	0.00 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
TE 17	0.00 ms
TE 18	0.00 ms
TE 19	0.00 ms
TE 20	0.00 ms
TE 21	0.00 ms
TE 22	0.00 ms
TE 23	0.00 ms
TE 24	0.00 ms
TE 25	0.00 ms
TE 26	0.00 ms
TE 27	0.00 ms
TE 28	0.00 ms
TE 29	0.00 ms
TE 30	0.00 ms
TE 31	0.00 ms
TE 32	0.00 ms
MTC	Off
Flip angle	6 deg

Contrast - Dynamic

Reconstruction	Magnitude

Resolution - Common

FoV read	256 mm
FoV phase	87.5 %
Slice thickness	4.00 mm
Base resolution	64
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off

Resolution - Filter Image

Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slab group	1
Slabs	1
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	44
FoV read	256 mm
FoV phase	87.5 %
Slice thickness	4.00 mm
TR	5.23 ms
Concatenations	1

Geometry - AutoAlign

Slab group	1
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L0.0 A16.1 F15.6
L	0.0 mm
A	16.1 mm
F	15.6 mm
Initial Rotation	30.00 deg
Initial Orientation	Sagittal

System - Miscellaneous

Positioning mode	FIX
Table position	H
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	Default

System - Adjustments

B0 Shim mode	Standard
B1 Shim mode	TrueForm
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Rotation	30.00 deg
A >> P	224 mm
F >> H	256 mm
R >> L	176 mm

System - Adjust Volume

Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm

System - Tx/Rx

Frequency 1H	123.259549 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Sequence - Part 1

Dimension	3D
Elliptical scanning	On
Contrasts	1
Bandwidth	1015 Hz/Px

Sequence - Part 2

Gradient mode	Performance
RF spoiling	On

Sequence - Special

Noise Adjust	On
RF Spoiling Increment	137.0 Degrees
Trajectory	Partitions in Lines
Prewinder (PE, RO) Ramp.	220 us
Prewinder (PE, RO) Dur.	610 us
Readout Ramp	110 us
RF Pulse Duration	160 us
Excitation	Non-Selective
Reconstruction	ICE
Bandwidth Time Product	6.0

Sequence - Assistant

Mode	Off

\\USER\OHBA Projects VE11C\2017_110 TMS Plasticity 2\Copy of 2017_110 TMS PLASTICITY 2\mfc_3dflash_SMAP_BC

TA: 0:12 PM: FIX Voxel size: 4.0×4.0×4.0 mmPAT: Off Rel. SNR: 1.00 : fl3d_1i

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
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Slice oversampling	0.0 %
Slices per slab	44
FoV read	256 mm
FoV phase	87.5 %
Slice thickness	4.00 mm
TR	5.23 ms
TE 1	2.00 ms
TE 2	0.00 ms
TE 3	0.00 ms
TE 4	0.00 ms
TE 5	0.00 ms
TE 6	0.00 ms
TE 7	0.00 ms
TE 8	0.00 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
TE 17	0.00 ms
TE 18	0.00 ms
TE 19	0.00 ms
TE 20	0.00 ms
TE 21	0.00 ms
TE 22	0.00 ms
TE 23	0.00 ms
TE 24	0.00 ms
TE 25	0.00 ms
TE 26	0.00 ms
TE 27	0.00 ms
TE 28	0.00 ms
TE 29	0.00 ms
TE 30	0.00 ms
TE 31	0.00 ms
TE 32	0.00 ms
Concatenations	1
Filter	None

Routine

Coil elements	HEA;HEP

Contrast - Common

TR	5.23 ms
TE 1	2.00 ms
TE 2	0.00 ms
TE 3	0.00 ms
TE 4	0.00 ms
TE 5	0.00 ms
TE 6	0.00 ms
TE 7	0.00 ms
TE 8	0.00 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
TE 17	0.00 ms
TE 18	0.00 ms
TE 19	0.00 ms
TE 20	0.00 ms
TE 21	0.00 ms
TE 22	0.00 ms
TE 23	0.00 ms
TE 24	0.00 ms
TE 25	0.00 ms
TE 26	0.00 ms
TE 27	0.00 ms
TE 28	0.00 ms
TE 29	0.00 ms
TE 30	0.00 ms
TE 31	0.00 ms
TE 32	0.00 ms
MTC	Off
Flip angle	6 deg

Contrast - Dynamic

Reconstruction	Magnitude

Resolution - Common

FoV read	256 mm
FoV phase	87.5 %
Slice thickness	4.00 mm
Base resolution	64
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off

Resolution - Filter Image

Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slab group	1
Slabs	1
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	44
FoV read	256 mm
FoV phase	87.5 %
Slice thickness	4.00 mm
TR	5.23 ms
Concatenations	1

Geometry - AutoAlign

Slab group	1
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L0.0 A16.1 F15.6
L	0.0 mm
A	16.1 mm
F	15.6 mm
Initial Rotation	30.00 deg
Initial Orientation	Sagittal

System - Miscellaneous

Positioning mode	FIX
Table position	H
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	Default

System - Adjustments

B0 Shim mode	Standard
B1 Shim mode	TrueForm
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Rotation	30.00 deg
A >> P	224 mm
F >> H	256 mm
R >> L	176 mm

System - Adjust Volume

Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm

System - Tx/Rx

Frequency 1H	123.259549 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Sequence - Part 1

Dimension	3D
Elliptical scanning	On
Contrasts	1
Bandwidth	1015 Hz/Px

Sequence - Part 2

Gradient mode	Performance
RF spoiling	On

Sequence - Special

Noise Adjust	On
RF Spoiling Increment	137.0 Degrees
Trajectory	Partitions in Lines
Prewinder (PE, RO) Ramp.	220 us
Prewinder (PE, RO) Dur.	610 us
Readout Ramp	110 us
RF Pulse Duration	160 us
Excitation	Non-Selective
Reconstruction	ICE
Bandwidth Time Product	6.0

Sequence - Assistant

Mode	Off

\\USER\OHBA Projects VE11C\2017_110 TMS Plasticity 2\Copy of 2017_110 TMS PLASTICITY 2\mfc_3dflash_T1w_GRAPPA4_PSN_488BW

TA: 4:42 PM: FIX Voxel size: 1.0×1.0×1.0 mmPAT: 4 Rel. SNR: 1.00 : fl3d_1i

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
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Slice oversampling	0.0 %
Slices per slab	176
FoV read	256 mm
FoV phase	87.5 %
Slice thickness	1.00 mm
TR	25.00 ms
TE 1	2.30 ms
TE 2	4.60 ms
TE 3	6.90 ms
TE 4	9.20 ms
TE 5	11.50 ms
TE 6	13.80 ms
TE 7	16.10 ms
TE 8	18.40 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
TE 17	0.00 ms
TE 18	0.00 ms
TE 19	0.00 ms
TE 20	0.00 ms
TE 21	0.00 ms
TE 22	0.00 ms
TE 23	0.00 ms
TE 24	0.00 ms
TE 25	0.00 ms
TE 26	0.00 ms
TE 27	0.00 ms
TE 28	0.00 ms
TE 29	0.00 ms
TE 30	0.00 ms
TE 31	0.00 ms
TE 32	0.00 ms
Concatenations	1
Filter	Prescan Normalize

Routine

Coil elements	HEA;HEP

Contrast - Common

TR	25.00 ms
TE 1	2.30 ms
TE 2	4.60 ms
TE 3	6.90 ms
TE 4	9.20 ms
TE 5	11.50 ms
TE 6	13.80 ms
TE 7	16.10 ms
TE 8	18.40 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
TE 17	0.00 ms
TE 18	0.00 ms
TE 19	0.00 ms
TE 20	0.00 ms
TE 21	0.00 ms
TE 22	0.00 ms
TE 23	0.00 ms
TE 24	0.00 ms
TE 25	0.00 ms
TE 26	0.00 ms
TE 27	0.00 ms
TE 28	0.00 ms
TE 29	0.00 ms
TE 30	0.00 ms
TE 31	0.00 ms
TE 32	0.00 ms
MTC	Off
Flip angle	21 deg

Contrast - Dynamic

Reconstruction	Magnitude

Resolution - Common

FoV read	256 mm
FoV phase	87.5 %
Slice thickness	1.00 mm
Base resolution	256
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off

Resolution - iPAT

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	40
Accel. factor 3D	2
Ref. lines 3D	40
Reference scan mode	Integrated

Resolution - Filter Image

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

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slab group	1
Slabs	1
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	176
FoV read	256 mm
FoV phase	87.5 %
Slice thickness	1.00 mm
TR	25.00 ms
Concatenations	1

Geometry - AutoAlign

Slab group	1
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L0.0 A16.1 F15.6
L	0.0 mm
A	16.1 mm
F	15.6 mm
Initial Rotation	30.00 deg
Initial Orientation	Sagittal

System - Miscellaneous

Positioning mode	FIX
Table position	H
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	Default

System - Adjustments

B0 Shim mode	Standard
B1 Shim mode	TrueForm
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal

System - Adjust Volume

Rotation	30.00 deg
A >> P	224 mm
F >> H	256 mm
R >> L	176 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm

System - Tx/Rx

Frequency 1H	123.259549 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Sequence - Part 1

Dimension	3D
Elliptical scanning	Off
Contrasts	8
Bandwidth	488 Hz/Px

Sequence - Part 2

Gradient mode	Performance
RF spoiling	On

Sequence - Special

Noise Adjust	On
RF Spoiling Increment	137.0 Degrees
Trajectory	Partitions in Lines
Prewinder (PE, RO) Ramp.	210 us
Prewinder (PE, RO) Dur.	610 us
Readout Ramp	110 us
RF Pulse Duration	560 us
Excitation	Non-Selective
Reconstruction	ICE
Bandwidth Time Product	6.0

Sequence - Assistant

Mode	Off

\\USER\OHBA Projects VE11C\2017_110 TMS Plasticity 2\Copy of 2017_110 TMS PLASTICITY 2\mfc_3dflash_SMAP_HC

TA: 0:12 PM: FIX Voxel size: 4.0×4.0×4.0 mmPAT: Off Rel. SNR: 1.00 : fl3d_1i

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
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Slice oversampling	0.0 %
Slices per slab	44
FoV read	256 mm
FoV phase	87.5 %
Slice thickness	4.00 mm
TR	5.23 ms
TE 1	2.00 ms
TE 2	0.00 ms
TE 3	0.00 ms
TE 4	0.00 ms
TE 5	0.00 ms
TE 6	0.00 ms
TE 7	0.00 ms
TE 8	0.00 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
TE 17	0.00 ms
TE 18	0.00 ms
TE 19	0.00 ms
TE 20	0.00 ms
TE 21	0.00 ms
TE 22	0.00 ms
TE 23	0.00 ms
TE 24	0.00 ms
TE 25	0.00 ms
TE 26	0.00 ms
TE 27	0.00 ms
TE 28	0.00 ms
TE 29	0.00 ms
TE 30	0.00 ms
TE 31	0.00 ms
TE 32	0.00 ms
Concatenations	1
Filter	None

Routine

Coil elements	HEA;HEP

Contrast - Common

TR	5.23 ms
TE 1	2.00 ms
TE 2	0.00 ms
TE 3	0.00 ms
TE 4	0.00 ms
TE 5	0.00 ms
TE 6	0.00 ms
TE 7	0.00 ms
TE 8	0.00 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
TE 17	0.00 ms
TE 18	0.00 ms
TE 19	0.00 ms
TE 20	0.00 ms
TE 21	0.00 ms
TE 22	0.00 ms
TE 23	0.00 ms
TE 24	0.00 ms
TE 25	0.00 ms
TE 26	0.00 ms
TE 27	0.00 ms
TE 28	0.00 ms
TE 29	0.00 ms
TE 30	0.00 ms
TE 31	0.00 ms
TE 32	0.00 ms
MTC	Off
Flip angle	6 deg

Contrast - Dynamic

Reconstruction	Magnitude

Resolution - Common

FoV read	256 mm
FoV phase	87.5 %
Slice thickness	4.00 mm
Base resolution	64
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off

Resolution - Filter Image

Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slab group	1
Slabs	1
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	44
FoV read	256 mm
FoV phase	87.5 %
Slice thickness	4.00 mm
TR	5.23 ms
Concatenations	1

Geometry - AutoAlign

Slab group	1
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L0.0 A16.1 F15.6
L	0.0 mm
A	16.1 mm
F	15.6 mm
Initial Rotation	30.00 deg
Initial Orientation	Sagittal

System - Miscellaneous

Positioning mode	FIX
Table position	H
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	Default

System - Adjustments

B0 Shim mode	Standard
B1 Shim mode	TrueForm
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Rotation	30.00 deg
A >> P	224 mm
F >> H	256 mm
R >> L	176 mm

System - Adjust Volume

Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm

System - Tx/Rx

Frequency 1H	123.259549 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Sequence - Part 1

Dimension	3D
Elliptical scanning	On
Contrasts	1
Bandwidth	1015 Hz/Px

Sequence - Part 2

Gradient mode	Performance
RF spoiling	On

Sequence - Special

Noise Adjust	On
RF Spoiling Increment	137.0 Degrees
Trajectory	Partitions in Lines
Prewinder (PE, RO) Ramp.	220 us
Prewinder (PE, RO) Dur.	610 us
Readout Ramp	110 us
RF Pulse Duration	160 us
Excitation	Non-Selective
Reconstruction	ICE
Bandwidth Time Product	6.0

Sequence - Assistant

Mode	Off

\\USER\OHBA Projects VE11C\2017_110 TMS Plasticity 2\Copy of 2017_110 TMS PLASTICITY 2\mfc_3dflash_SMAP_BC

TA: 0:12 PM: FIX Voxel size: 4.0×4.0×4.0 mmPAT: Off Rel. SNR: 1.00 : fl3d_1i

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
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Slice oversampling	0.0 %
Slices per slab	44
FoV read	256 mm
FoV phase	87.5 %
Slice thickness	4.00 mm
TR	5.23 ms
TE 1	2.00 ms
TE 2	0.00 ms
TE 3	0.00 ms
TE 4	0.00 ms
TE 5	0.00 ms
TE 6	0.00 ms
TE 7	0.00 ms
TE 8	0.00 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
TE 17	0.00 ms
TE 18	0.00 ms
TE 19	0.00 ms
TE 20	0.00 ms
TE 21	0.00 ms
TE 22	0.00 ms
TE 23	0.00 ms
TE 24	0.00 ms
TE 25	0.00 ms
TE 26	0.00 ms
TE 27	0.00 ms
TE 28	0.00 ms
TE 29	0.00 ms
TE 30	0.00 ms
TE 31	0.00 ms
TE 32	0.00 ms
Concatenations	1
Filter	None

Routine

Coil elements	HEA;HEP

Contrast - Common

TR	5.23 ms
TE 1	2.00 ms
TE 2	0.00 ms
TE 3	0.00 ms
TE 4	0.00 ms
TE 5	0.00 ms
TE 6	0.00 ms
TE 7	0.00 ms
TE 8	0.00 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
TE 17	0.00 ms
TE 18	0.00 ms
TE 19	0.00 ms
TE 20	0.00 ms
TE 21	0.00 ms
TE 22	0.00 ms
TE 23	0.00 ms
TE 24	0.00 ms
TE 25	0.00 ms
TE 26	0.00 ms
TE 27	0.00 ms
TE 28	0.00 ms
TE 29	0.00 ms
TE 30	0.00 ms
TE 31	0.00 ms
TE 32	0.00 ms
MTC	Off
Flip angle	6 deg

Contrast - Dynamic

Reconstruction	Magnitude

Resolution - Common

FoV read	256 mm
FoV phase	87.5 %
Slice thickness	4.00 mm
Base resolution	64
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off

Resolution - Filter Image

Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slab group	1
Slabs	1
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	44
FoV read	256 mm
FoV phase	87.5 %
Slice thickness	4.00 mm
TR	5.23 ms
Concatenations	1

Geometry - AutoAlign

Slab group	1
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L0.0 A16.1 F15.6
L	0.0 mm
A	16.1 mm
F	15.6 mm
Initial Rotation	30.00 deg
Initial Orientation	Sagittal

System - Miscellaneous

Positioning mode	FIX
Table position	H
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	Default

System - Adjustments

B0 Shim mode	Standard
B1 Shim mode	TrueForm
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Rotation	30.00 deg
A >> P	224 mm
F >> H	256 mm
R >> L	176 mm

System - Adjust Volume

Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm

System - Tx/Rx

Frequency 1H	123.259549 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Sequence - Part 1

Dimension	3D
Elliptical scanning	On
Contrasts	1
Bandwidth	1015 Hz/Px

Sequence - Part 2

Gradient mode	Performance
RF spoiling	On

Sequence - Special

Noise Adjust	On
RF Spoiling Increment	137.0 Degrees
Trajectory	Partitions in Lines
Prewinder (PE, RO) Ramp.	220 us
Prewinder (PE, RO) Dur.	610 us
Readout Ramp	110 us
RF Pulse Duration	160 us
Excitation	Non-Selective
Reconstruction	ICE
Bandwidth Time Product	6.0

Sequence - Assistant

Mode	Off

\\USER\OHBA Projects VE11C\2017_110 TMS Plasticity 2\Copy of 2017_110 TMS PLASTICITY 2\mfc_3dflash_MTw_GRAPPA4

TA: 4:42 PM: FIX Voxel size: 1.0×1.0×1.0 mmPAT: 4 Rel. SNR: 1.00 : fl3d_1i

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
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Slice oversampling	0.0 %
Slices per slab	176
FoV read	256 mm
FoV phase	87.5 %
Slice thickness	1.00 mm
TR	25.00 ms
TE 1	2.30 ms
TE 2	4.60 ms
TE 3	6.90 ms
TE 4	9.20 ms
TE 5	11.50 ms
TE 6	13.80 ms
TE 7	0.00 ms
TE 8	0.00 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
TE 17	0.00 ms
TE 18	0.00 ms
TE 19	0.00 ms
TE 20	0.00 ms
TE 21	0.00 ms
TE 22	0.00 ms
TE 23	0.00 ms
TE 24	0.00 ms
TE 25	0.00 ms
TE 26	0.00 ms
TE 27	0.00 ms
TE 28	0.00 ms
TE 29	0.00 ms
TE 30	0.00 ms
TE 31	0.00 ms
TE 32	0.00 ms
Concatenations	1
Filter	Prescan Normalize

Routine

Coil elements	HEA;HEP

Contrast - Common

TR	25.00 ms
TE 1	2.30 ms
TE 2	4.60 ms
TE 3	6.90 ms
TE 4	9.20 ms
TE 5	11.50 ms
TE 6	13.80 ms
TE 7	0.00 ms
TE 8	0.00 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
TE 17	0.00 ms
TE 18	0.00 ms
TE 19	0.00 ms
TE 20	0.00 ms
TE 21	0.00 ms
TE 22	0.00 ms
TE 23	0.00 ms
TE 24	0.00 ms
TE 25	0.00 ms
TE 26	0.00 ms
TE 27	0.00 ms
TE 28	0.00 ms
TE 29	0.00 ms
TE 30	0.00 ms
TE 31	0.00 ms
TE 32	0.00 ms
MTC	On
Flip angle	6 deg

Contrast - Dynamic

Reconstruction	Magnitude

Resolution - Common

FoV read	256 mm
FoV phase	87.5 %
Slice thickness	1.00 mm
Base resolution	256
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off

Resolution - iPAT

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	40
Accel. factor 3D	2
Ref. lines 3D	40
Reference scan mode	Integrated

Resolution - Filter Image

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

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slab group	1
Slabs	1
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	176
FoV read	256 mm
FoV phase	87.5 %
Slice thickness	1.00 mm
TR	25.00 ms
Concatenations	1

Geometry - AutoAlign

Slab group	1
Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L0.0 A16.1 F15.6
L	0.0 mm
A	16.1 mm
F	15.6 mm
Initial Rotation	30.00 deg
Initial Orientation	Sagittal

System - Miscellaneous

Positioning mode	FIX
Table position	H
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	Default

System - Adjustments

B0 Shim mode	Standard
B1 Shim mode	TrueForm
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	L0.0 A16.1 F15.6 mm
Orientation	Sagittal

System - Adjust Volume

Rotation	30.00 deg
A >> P	224 mm
F >> H	256 mm
R >> L	176 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm

System - Tx/Rx

Frequency 1H	123.259549 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Sequence - Part 1

Dimension	3D
Elliptical scanning	Off
Contrasts	6
Bandwidth	488 Hz/Px

Sequence - Part 2

Gradient mode	Performance
RF spoiling	On

Sequence - Special

Noise Adjust	On
RF Spoiling Increment	137.0 Degrees
Trajectory	Partitions in Lines
Prewinder (PE, RO) Ramp.	220 us
Prewinder (PE, RO) Dur.	610 us
Readout Ramp	110 us
RF Pulse Duration	160 us
Excitation	Non-Selective
Reconstruction	ICE
Bandwidth Time Product	6.0

Sequence - Assistant

Mode	Off

\\USER\OHBA Projects VE11C\2017_110 TMS Plasticity 2\Copy of 2017_110 TMS PLASTICITY 2\diff_mbep2d_1.5mm_AP_MB4_256DIR_B1000B2000

TA: 14:38 PM: FIX Voxel size: 1.5×1.5×1.5 mmPAT: Off 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	On
Start measurements	Single measurement

Routine

Slice group	1
Slices	84
Dist. factor	0 %
Position	R1.2 A0.5 H24.1 mm
Orientation	T > C-16.6 > S1.2
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	204 mm
FoV phase	100.0 %
Slice thickness	1.50 mm
TR	3070 ms
TE	85.00 ms
Multi-band accel. factor	4
Filter	None
Coil elements	HEA;HEP

Contrast - Common

TR	3070 ms
TE	85.00 ms
MTC	Off
Magn. preparation	None
Flip angle	80 deg
Refocus flip angle	180 deg
Fat suppr.	Fat sat.
Grad. rev. fat suppr.	Enabled

Contrast - Dynamic

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

Resolution - Common

FoV read	204 mm
FoV phase	100.0 %
Slice thickness	1.50 mm
Base resolution	136
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

Distortion Corr.	Off
Prescan Normalize	Off
Dynamic Field Corr.	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slice group	1
Slices	84
Dist. factor	0 %
Position	R1.2 A0.5 H24.1 mm
Orientation	T > C-16.6 > S1.2
Phase enc. dir.	A >> P
FoV read	204 mm
FoV phase	100.0 %
Slice thickness	1.50 mm
TR	3070 ms
Multi-slice mode	Interleaved
Series	Interleaved
Multi-band accel. factor	4

Geometry - AutoAlign

Slice group	1
Position	R1.2 A0.5 H24.1 mm
Orientation	T > C-16.6 > S1.2
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	R1.2 A0.5 H24.1
R	1.2 mm
A	0.5 mm
H	24.1 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	-16.6
> S	1.2

Geometry - Saturation

Fat suppr.	Fat sat.
Grad. rev. fat suppr.	Enabled
Special sat.	None

Geometry - Navigator

System - Miscellaneous

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

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	TrueForm
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R1.2 A0.5 H24.1 mm
Orientation	T > C-16.6 > S1.2
Rotation	0.00 deg
A >> P	204 mm
R >> L	204 mm
F >> H	126 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Standard

System - Tx/Rx

Frequency 1H	123.259549 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	3070 ms
Multi-band accel. factor	4

Physio - PACE

Resp. control	Off
Multi-band accel. factor	4

Diff - Neuro

Diffusion mode	Free
Diff. directions	281
Diffusion Scheme	Monopolar
Diff. weightings	1
b-value	2000 s/mm²
b-value	1
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	Free
Diff. directions	281
Diffusion Scheme	Monopolar
Diff. weightings	1
b-value	2000 s/mm²
b-value	1
Diff. weighted images	On
Trace weighted images	Off
ADC maps	Off

Diff - Body

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
Multi-slice mode	Interleaved
Free echo spacing	Off
Echo spacing	0.66 ms
Bandwidth	1934 Hz/Px

Sequence - Part 2

EPI factor	136
Gradient mode	Performance*
Excitation	Standard
RF spoiling	Off

Sequence - Special

Excite pulse duration	5120 us
Refocus pulse duration	8960 us
Single-band images	On
MB LeakBlock kernel	On
MB dual kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
SENSE1 coil combine	On
Invert RO/PE polarity	Off
PF omits higher k-space	Off
Disable freq. update	Off
Force equal slice timing	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off

\\USER\OHBA Projects VE11C\2017_110 TMS Plasticity 2\Copy of 2017_110 TMS PLASTICITY 2\diff_mbep2d_1.5mm_APrev_MB4_Bzeros

TA: 0:49 PM: FIX Voxel size: 1.5×1.5×1.5 mmPAT: Off 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	On
Start measurements	Single measurement

Routine

Slice group	1
Slices	84
Dist. factor	0 %
Position	R1.2 A0.5 H24.1 mm
Orientation	T > C-16.6 > S1.2
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	204 mm
FoV phase	100.0 %
Slice thickness	1.50 mm
TR	3070 ms
TE	85.00 ms
Multi-band accel. factor	4
Filter	None
Coil elements	HEA;HEP

Contrast - Common

TR	3070 ms
TE	85.00 ms
MTC	Off
Magn. preparation	None
Flip angle	80 deg
Refocus flip angle	180 deg
Fat suppr.	Fat sat.
Grad. rev. fat suppr.	Enabled

Contrast - Dynamic

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

Resolution - Common

FoV read	204 mm
FoV phase	100.0 %
Slice thickness	1.50 mm
Base resolution	136
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

Distortion Corr.	Off
Prescan Normalize	Off
Dynamic Field Corr.	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slice group	1
Slices	84
Dist. factor	0 %
Position	R1.2 A0.5 H24.1 mm
Orientation	T > C-16.6 > S1.2
Phase enc. dir.	A >> P
FoV read	204 mm
FoV phase	100.0 %
Slice thickness	1.50 mm
TR	3070 ms
Multi-slice mode	Interleaved
Series	Interleaved
Multi-band accel. factor	4

Geometry - AutoAlign

Slice group	1
Position	R1.2 A0.5 H24.1 mm
Orientation	T > C-16.6 > S1.2
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	R1.2 A0.5 H24.1
R	1.2 mm
A	0.5 mm
H	24.1 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	-16.6
> S	1.2

Geometry - Saturation

Fat suppr.	Fat sat.
Grad. rev. fat suppr.	Enabled
Special sat.	None

Geometry - Navigator

System - Miscellaneous

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

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	TrueForm
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R1.2 A0.5 H24.1 mm
Orientation	T > C-16.6 > S1.2
Rotation	0.00 deg
A >> P	204 mm
R >> L	204 mm
F >> H	126 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Standard

System - Tx/Rx

Frequency 1H	123.259549 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	3070 ms
Multi-band accel. factor	4

Physio - PACE

Resp. control	Off
Multi-band accel. factor	4

Diff - Neuro

Diffusion mode	Free
Diff. directions	11
Diffusion Scheme	Monopolar
Diff. weightings	1
b-value	1000 s/mm²
b-value	1
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	Free
Diff. directions	11
Diffusion Scheme	Monopolar
Diff. weightings	1
b-value	1000 s/mm²
b-value	1
Diff. weighted images	On
Trace weighted images	Off
ADC maps	Off

Diff - Body

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
Multi-slice mode	Interleaved
Free echo spacing	Off
Echo spacing	0.66 ms
Bandwidth	1934 Hz/Px

Sequence - Part 2

EPI factor	136
Gradient mode	Performance*
Excitation	Standard
RF spoiling	Off

Sequence - Special

Excite pulse duration	5120 us
Refocus pulse duration	8960 us
Single-band images	On
MB LeakBlock kernel	On
MB dual kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
SENSE1 coil combine	On
Invert RO/PE polarity	On
PF omits higher k-space	Off
Disable freq. update	Off
Force equal slice timing	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off

\\USER\OHBA Projects VE11C\2017_110 TMS Plasticity 2\Copy of 2017_110 TMS PLASTICITY 2\diff_mbep2d_3mm_AP_MB8_256DIR_B1000B2000

TA: 3:06 PM: FIX Voxel size: 3.0×3.0×3.0 mmPAT: Off 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	On
Start measurements	Single measurement

Routine

Slice group	1
Slices	48
Dist. factor	0 %
Position	R1.2 A0.5 H24.1 mm
Orientation	T > C-16.6 > S1.2
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	204 mm
FoV phase	100.0 %
Slice thickness	3.00 mm
TR	631 ms
TE	64.00 ms
Multi-band accel. factor	8
Filter	None
Coil elements	HEA;HEP

Contrast - Common

TR	631 ms
TE	64.00 ms
MTC	Off
Magn. preparation	None
Flip angle	80 deg
Refocus flip angle	180 deg
Fat suppr.	Fat sat.
Grad. rev. fat suppr.	Enabled

Contrast - Dynamic

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

Resolution - Common

FoV read	204 mm
FoV phase	100.0 %
Slice thickness	3.00 mm
Base resolution	68
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

Distortion Corr.	Off
Prescan Normalize	Off
Dynamic Field Corr.	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slice group	1
Slices	48
Dist. factor	0 %
Position	R1.2 A0.5 H24.1 mm
Orientation	T > C-16.6 > S1.2
Phase enc. dir.	A >> P
FoV read	204 mm
FoV phase	100.0 %
Slice thickness	3.00 mm
TR	631 ms
Multi-slice mode	Interleaved
Series	Interleaved
Multi-band accel. factor	8

Geometry - AutoAlign

Slice group	1
Position	R1.2 A0.5 H24.1 mm
Orientation	T > C-16.6 > S1.2
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	R1.2 A0.5 H24.1
R	1.2 mm
A	0.5 mm
H	24.1 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	-16.6
> S	1.2

Geometry - Saturation

Fat suppr.	Fat sat.
Grad. rev. fat suppr.	Enabled
Special sat.	None

Geometry - Navigator

System - Miscellaneous

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

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	TrueForm
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R1.2 A0.5 H24.1 mm
Orientation	T > C-16.6 > S1.2
Rotation	0.00 deg
A >> P	204 mm
R >> L	204 mm
F >> H	144 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Standard

System - Tx/Rx

Frequency 1H	123.259549 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	631 ms
Multi-band accel. factor	8

Physio - PACE

Resp. control	Off
Multi-band accel. factor	8

Diff - Neuro

Diffusion mode	Free
Diff. directions	281
Diffusion Scheme	Monopolar
Diff. weightings	1
b-value	2000 s/mm²
b-value	1
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	Free
Diff. directions	281
Diffusion Scheme	Monopolar
Diff. weightings	1
b-value	2000 s/mm²
b-value	1
Diff. weighted images	On
Trace weighted images	Off
ADC maps	Off

Diff - Body

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
Multi-slice mode	Interleaved
Free echo spacing	Off
Echo spacing	0.66 ms
Bandwidth	1934 Hz/Px

Sequence - Part 2

EPI factor	68
Gradient mode	Performance*
Excitation	Standard
RF spoiling	Off

Sequence - Special

Excite pulse duration	5120 us
Refocus pulse duration	8960 us
Single-band images	On
MB LeakBlock kernel	On
MB dual kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
SENSE1 coil combine	On
Invert RO/PE polarity	Off
PF omits higher k-space	Off
Disable freq. update	Off
Force equal slice timing	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off