

\\USER\WBIC Protocols Ready\Protocol 461\FDL_MRS_20210415\rslh_ep3d_vaso_ma4a_TReff4s_30sl_Run1

TA: 10:54 PM: FIX Voxel size: 0.8×0.8×0.9 mmPAT: 3 Rel. SNR: 1.00 : 0c0b7b7

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
Position	R0.1 P9.8 H81.4 mm
Orientation	C > T-37.0
Phase enc. dir.	H >> F
AutoAlign	---
Slab Scale	0 %
Slices per slab	30
FoV read	150 mm
FoV phase	100.0 %
Slice thickness	0.90 mm
TR 1	57.3 ms
TR 2	4381 ms
TE 1	19.30 ms
Averages	1
Multi-echo Shots	1
Filter	Distortion Corr.(3D)
Coil elements	A32

Contrast - Common

TR 1	57.3 ms
TR 2	4381 ms
TE 1	19.30 ms
Multi-echo spacing	51.88 ms
Magn. preparation	Non-sel. HSN IR
TI 1	1519.5 ms
TI 2	3238.5 ms
Flip angle	60 deg
Fat suppr.	Fat sat.
Magn. Prep. Shots	1

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	146
Pause after meas.	0.0 s

Resolution - Common

FoV read	150 mm
FoV phase	100.0 %
Slice thickness	0.90 mm
Base resolution	188
Phase resolution	100 %
Slice resolution	100 %

Resolution - Common

Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	CAIPIRINHA
Acc. factor PE	3
Ref. lines PE	45
Acc. factor 3D	1
Ref. lines 3D	24
CAIPI 3D Shift	0
Reference Scan Mode	GRE/separate
CAIPIRINHA mode	Free

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
Position	R0.1 P9.8 H81.4 mm
Orientation	C > T-37.0
Phase enc. dir.	H >> F
Slab Scale	0 %
Slices per slab	30
FoV read	150 mm
FoV phase	100.0 %
Slice thickness	0.90 mm
TR 1	57.3 ms
TR 2	4381 ms
Multi-slice mode	Interleaved
Series	Ascending
Multi-echo Shots	1

Geometry - AutoAlign

Slab group	1
Position	R0.1 P9.8 H81.4 mm
Orientation	C > T-37.0
Phase enc. dir.	H >> F
AutoAlign	---
Initial Position	R0.1 P9.8 H36.4
R	0.1 mm
P	9.8 mm
H	36.4 mm
Initial Rotation	-90.00 deg
Initial Orientation	C > T
C > T	-37.0
> S	0.0

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	Fat sat.

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	H
Table position	45 mm
Inline Composing	Off

System - Miscellaneous

Positioning mode	FIX
Table position	H
Table position	45 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	L0.0 A20.2 H72.5 mm
! Orientation	T > C-24.4
! Rotation	0.00 deg
! A >> P	171 mm
! R >> L	154 mm
! F >> H	132 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.200073 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Sequence - Part 1

Introduction	On
Dimension	3D
Reordering	Linear
Asymmetric echo	Off
Contrasts	1
Multi-slice mode	Interleaved
Echo spacing	1.08 ms
Bandwidth	1064 Hz/Px

Sequence - Part 2

EPI factor	47
Segmentation	1
RF pulse type	Normal
Gradient mode	Fast

Sequence - Part 2

Excitation	Slab-sel.
RF spoiling	On
Turbo factor	30

Sequence - Special

PATRef FA	3 deg
RF duration	2540 us
RF BWT product	24
Ernst T1	1200 ms
PATRef prep. shots	10
Volume dummy shots	0
Dummy Measurements	0
PATRef averages	2
ETL per RTEB	1
CHECK FLIP ANGLE!	On
Invert PE	Off
Min. TE if PF	On
Echo Time Shift	On
Invert 3D	Off
Invert RO	Off
Alternate RO	Off
Disable PF reco	Off
Ramp Sampling	On
Disable PF reco	Off
Save sampling	Off
PE VComp	Off
Water Exc.	-none-
External PC	per Series
Saturation RF	per Shot
FIDNavs	-none-
EPI rise time factor	1.10
Mosaic DICOMs	On
Modify IcePAT	Off
HSN RF power scale	3.00
Inversion Delay	650 ms
Relaxation Delay	0 ms
Var. FA /MAGEC	4

Sequence - Assistant

Mode	Off
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