\\Kamil\Renzo_playground\executed_3rd\executeds\used_for_NOVA_visual

TA: 16:12 PM: REF Voxel size: 0.8×0.8×0.8 mmPAT: 3 Rel. SNR: 1.00 : RenzLa4

compiled in KOREA by Suhuyn

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	R3.4 P2.2 H2.5 mm
Orientation	T > C-36.5 > S0.1
Phase enc. dir.	A >> P
AutoAlign	---
Slice oversampling	0.0 %
Slices per slab	26
FoV read	177 mm
FoV phase	100.0 %
Slice thickness	0.82 mm
TR 1	64.34 ms
TR 2	4016.02 ms
TE 1	23.0 ms
Averages	1
TE segmentation	1
Filter	Distortion Corr.(3D)
Coil elements	A32

Contrast - Common

TR 1	64.34 ms
TR 2	4016.02 ms
TE 1	23.0 ms
Multi-echo dTE	60.0 ms
MTC	Off
Magn. preparation	Non-sel. IR T1map
Flip angle	33 deg **<- this gave largest signal.**
Fat suppr.	None
Number of TIs	2 **20 deg (with 250Volt) gives best T1 weighing**

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	240
Pause after meas.	0.0 s

Resolution - Common

FoV read	177 mm
FoV phase	100.0 %
Slice thickness	0.82 mm
Base resolution	216
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8 **<- 8 iterations**
Slice partial Fourier	Off

Resolution - Common

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

improved_GRAPPA kernelsize 4x5 regularization 300

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	On **<- recon failed without this**
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	R3.4 P2.2 H2.5 mm
Orientation	T > C-36.5 > S0.1
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	26
FoV read	177 mm
FoV phase	100.0 %
Slice thickness	0.82 mm
TR 1	64.34 ms
TR 2	4016.02 ms
Multi-slice mode	Interleaved
Series	Ascending
TE segmentation	1

Geometry - AutoAlign

Slab group	1
Position	R3.4 P2.2 H2.5 mm
Orientation	T > C-36.5 > S0.1
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	R3.4 P2.2 H2.5
R	3.4 mm
P	2.2 mm
H	2.5 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	-36.5
> S	0.1

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	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	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Default

System - Adjustments

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

System - Adjust Volume

! Position	R9.2 P2.2 H4.4 mm
! Orientation	T > C-32.6 > S0.1
! Rotation	0.00 deg
! A >> P	177 mm
! R >> L	177 mm
! F >> H	44 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.213376 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	220.000 V **<- use 250, if SAR allows**

BOLD

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

Note, that 10 min SAR is limit. scan might stop after 5min

BOLD

Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off
Measurements	240

Sequence - Part 1

Introduction	On
Dimension	3D
Reordering	Linear
Asymmetric echo	Off
Contrasts	1
Multi-slice mode	Interleaved
Echo spacing	1.01 ms
Bandwidth	1102 Hz/Px

Sequence - Part 2

EPI factor	54
Segmentation	1
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Turbo factor	26

Sequence - Special

PATRef FA	12 deg
RF duration	2500 us
RF BWT product	25
Slab Scale	90 %
Ernst T1	2500 ms
PATRef prep. shots	10
Volume dummy shots	0
Dummy Measurements	0
Invert PE	Off
Invert 3D	Off
Min. TE if PF	On
Are you Renzo?	On
Echo Time Shift	On
Water Exc.	-none-
External PC	per Series
HSN RF power scale	2.00 **<- 3 is actually better**
Inversion Delay	650000 us
Relaxation Delay	0 us

binomial 1-1 was greyed out with thin slices and short pulses

Sequence - Assistant

Mode	Off

\\Kamil\Renzo_playground\executed_3rd\executeds\usedwith_whole_brain

TA: 10:26 PM: REF Voxel size: 0.8×0.8×0.8 mmPAT: 6 Rel. SNR: 1.00 : RenzLa4

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 A7.0 H10.0 mm
Orientation	T > C-12.9
Phase enc. dir.	A >> P
AutoAlign	---
Slice oversampling	0.0 %
Slices per slab	104
FoV read	177 mm
FoV phase	100.0 %
Slice thickness	0.82 mm
TR 1	61.56 ms
TR 2	7742.92 ms
TE 1	22.0 ms
Averages	1
TE segmentation	1
Filter	Distortion Corr.(3D)
Coil elements	A32

Contrast - Common

TR 1	61.56 ms
TR 2	7742.92 ms
TE 1	22.0 ms
Multi-echo dTE	60.0 ms
MTC	Off
Magn. preparation	Non-sel. IR T1map
Flip angle	33 deg
Fat suppr.	None
Number of TIs	2

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	80
Pause after meas.	0.0 s

Resolution - Common

FoV read	177 mm
FoV phase	100.0 %
Slice thickness	0.82 mm
Base resolution	216
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off

Resolution - Common

Interpolation	Off

Resolution - iPAT

PAT mode	CAIPIRINHA
Acc. factor PE	3
Ref. lines PE	45
Acc. factor 3D	2
Ref. lines 3D	24
CAIPI 3D Shift	1
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	L0.0 A7.0 H10.0 mm
Orientation	T > C-12.9
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	104
FoV read	177 mm
FoV phase	100.0 %
Slice thickness	0.82 mm
TR 1	61.56 ms
TR 2	7742.92 ms
Multi-slice mode	Interleaved
Series	Ascending
TE segmentation	1

Geometry - AutoAlign

Slab group	1
Position	L0.0 A7.0 H10.0 mm
Orientation	T > C-12.9
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L0.0 A7.0 H10.0
L	0.0 mm
A	7.0 mm
H	10.0 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	-12.9
> S	0.0

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	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	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Default

System - Adjustments

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

System - Adjust Volume

! Position	R0.2 A6.3 H13.5 mm
! Orientation	T > C-13.8 > S-0.4
! Rotation	0.00 deg
! A >> P	177 mm
! R >> L	171 mm
! F >> H	91 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.213376 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	220.000 V

BOLD

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

BOLD

Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off
Measurements	80

Sequence - Part 1

Introduction	On
Dimension	3D
Reordering	Linear
Asymmetric echo	Off
Contrasts	1
Multi-slice mode	Interleaved
Echo spacing	1.01 ms
Bandwidth	1102 Hz/Px

Sequence - Part 2

EPI factor	54
Segmentation	1
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Turbo factor	26

Sequence - Special

PATRef FA	12 deg
RF duration	2500 us
RF BWT product	25
Slab Scale	90 %
Ernst T1	2500 ms
PATRef prep. shots	10
Volume dummy shots	0
Dummy Measurements	0
Invert PE	Off
Invert 3D	Off
Min. TE if PF	On
Are you Renzo?	On
Echo Time Shift	On
Water Exc.	-none-
External PC	per Series
HSN RF power scale	2.00
Inversion Delay	650000 us
Relaxation Delay	0 us

Sequence - Assistant

Mode	Off

\\Kamil\Renzo_playground\executed_3rd\executeds\renzo_surface_coil

TA: 17:15 PM: REF Voxel size: 0.7×0.7×0.8 mmPAT: 3 Rel. SNR: 1.00 : RenzLa4

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	R2.4 P11.9 H1.1 mm
Orientation	C > T-18.8
Phase enc. dir.	F >> H
AutoAlign	---
Slice oversampling	0.0 %
Slices per slab	26
FoV read	137 mm
FoV phase	100.0 %
Slice thickness	0.82 mm
TR 1	64.83 ms
TR 2	4278.1 ms
TE 1	23.0 ms
Averages	1
TE segmentation	1
Filter	Distortion Corr.(3D)
Coil elements	R01

Contrast - Common

TR 1	64.83 ms
TR 2	4278.1 ms
TE 1	23.0 ms
Multi-echo dTE	60.0 ms
MTC	Off
Magn. preparation	Non-sel. IR T1map
Flip angle	33 deg
Fat suppr.	Fat sat.
Number of TIs	2

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	240
Pause after meas.	0.0 s

Resolution - Common

FoV read	137 mm
FoV phase	100.0 %
Slice thickness	0.82 mm
Base resolution	192
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off

Resolution - Common

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	R2.4 P11.9 H1.1 mm
Orientation	C > T-18.8
Phase enc. dir.	F >> H
Slice oversampling	0.0 %
Slices per slab	26
FoV read	137 mm
FoV phase	100.0 %
Slice thickness	0.82 mm
TR 1	64.83 ms
TR 2	4278.1 ms
Multi-slice mode	Interleaved
Series	Ascending
TE segmentation	1

Geometry - AutoAlign

Slab group	1
Position	R2.4 P11.9 H1.1 mm
Orientation	C > T-18.8
Phase enc. dir.	F >> H
AutoAlign	---
Initial Position	R2.4 P11.9 H1.1
R	2.4 mm
P	11.9 mm
H	1.1 mm
Initial Rotation	90.00 deg
Initial Orientation	C > T
C > T	-18.8
> S	0.0

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	Fat sat.

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

System - Adjust Volume

! Position	R5.3 P5.6 H12.6 mm
! Orientation	C > T-8.9 > S0.1
! Rotation	-89.98 deg
! F >> H	92 mm
! R >> L	177 mm
! A >> P	28 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.213376 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	0.300
Reset	Off
! Ref. amplitude 1H	220.000 V

BOLD

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

BOLD

Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off
Measurements	240

Sequence - Part 1

Introduction	On
Dimension	3D
Reordering	Linear
Asymmetric echo	Off
Contrasts	1
Multi-slice mode	Interleaved
Echo spacing	1.2 ms
Bandwidth	930 Hz/Px

Sequence - Part 2

EPI factor	48
Segmentation	1
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Turbo factor	26

Sequence - Special

PATRef FA	12 deg
RF duration	2500 us
RF BWT product	25
Slab Scale	90 %
Ernst T1	2500 ms
PATRef prep. shots	10
Volume dummy shots	0
Dummy Measurements	0
Invert PE	Off
Invert 3D	Off
Min. TE if PF	On
Are you Renzo?	On
Echo Time Shift	On
Water Exc.	-none-
External PC	per Series
Saturation RF	per Shot
HSN RF power scale	2.00
Inversion Delay	650000 us
Relaxation Delay	0 us

Sequence - Assistant

Mode	Off

\\Kamil\Renzo_playground\executed_3rd\executeds\renzo_surface_coil_0.5

TA: 6:26 PM: REF Voxel size: 0.5×0.5×1.2 mmPAT: 3 Rel. SNR: 1.00 : RenzLa4

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	R2.4 P11.9 H1.1 mm
Orientation	C > T-18.8
Phase enc. dir.	F >> H
AutoAlign	---
Slice oversampling	0.0 %
Slices per slab	26
FoV read	137 mm
FoV phase	100.0 %
Slice thickness	1.20 mm
TR 1	55.32 ms
TR 2	7567.16 ms
TE 1	19.0 ms
Averages	1
TE segmentation	1
Filter	Distortion Corr.(3D)
Coil elements	R01

Contrast - Common

TR 1	55.32 ms
TR 2	7567.16 ms
TE 1	19.0 ms
Multi-echo dTE	60.0 ms
MTC	Off
Magn. preparation	Non-sel. IR T1map
Flip angle	33 deg
Fat suppr.	Fat sat.
Number of TIs	2

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	50
Pause after meas. 1	0.0 s
Pause after meas. 2	0.0 s
Pause after meas. 3	0.0 s
Pause after meas. 4	0.0 s
Pause after meas. 5	0.0 s
Pause after meas. 6	0.0 s
Pause after meas. 7	0.0 s
Pause after meas. 8	0.0 s
Pause after meas. 9	0.0 s
Pause after meas. 10	0.0 s
Pause after meas. 11	0.0 s

Contrast - Dynamic

Pause after meas. 12	0.0 s
Pause after meas. 13	0.0 s
Pause after meas. 14	0.0 s
Pause after meas. 15	0.0 s
Pause after meas. 16	0.0 s
Pause after meas. 17	0.0 s
Pause after meas. 18	0.0 s
Pause after meas. 19	0.0 s
Pause after meas. 20	0.0 s
Pause after meas. 21	0.0 s
Pause after meas. 22	0.0 s
Pause after meas. 23	0.0 s
Pause after meas. 24	0.0 s
Pause after meas. 25	0.0 s
Pause after meas. 26	0.0 s
Pause after meas. 27	0.0 s
Pause after meas. 28	0.0 s
Pause after meas. 29	0.0 s
Pause after meas. 30	0.0 s
Pause after meas. 31	0.0 s
Pause after meas. 32	0.0 s
Pause after meas. 33	0.0 s
Pause after meas. 34	0.0 s
Pause after meas. 35	0.0 s
Pause after meas. 36	0.0 s
Pause after meas. 37	0.0 s
Pause after meas. 38	0.0 s
Pause after meas. 39	0.0 s
Pause after meas. 40	0.0 s
Pause after meas. 41	0.0 s
Pause after meas. 42	0.0 s
Pause after meas. 43	0.0 s
Pause after meas. 44	0.0 s
Pause after meas. 45	0.0 s
Pause after meas. 46	0.0 s
Pause after meas. 47	0.0 s
Pause after meas. 48	0.0 s
Pause after meas. 49	0.0 s

Resolution - Common

FoV read	137 mm
FoV phase	100.0 %
Slice thickness	1.20 mm
Base resolution	272
Phase resolution	100 %
Slice resolution	100 %
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	R2.4 P11.9 H1.1 mm
Orientation	C > T-18.8
Phase enc. dir.	F >> H
Slice oversampling	0.0 %
Slices per slab	26
FoV read	137 mm
FoV phase	100.0 %
Slice thickness	1.20 mm
TR 1	55.32 ms
TR 2	7567.16 ms
Multi-slice mode	Interleaved
Series	Ascending
TE segmentation	1

Geometry - AutoAlign

Slab group	1
Position	R2.4 P11.9 H1.1 mm
Orientation	C > T-18.8
Phase enc. dir.	F >> H
AutoAlign	---
Initial Position	R2.4 P11.9 H1.1
R	2.4 mm
P	11.9 mm
H	1.1 mm
Initial Rotation	90.00 deg
Initial Orientation	C > T
C > T	-18.8
> S	0.0

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	Fat sat.

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

System - Adjustments

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

System - Adjust Volume

! Position	R5.3 P5.6 H12.6 mm
! Orientation	C > T-8.9 > S0.1
! Rotation	-89.98 deg
! F >> H	92 mm
! R >> L	177 mm
! A >> P	28 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.213376 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	0.300
Reset	Off
! Ref. amplitude 1H	220.000 V

BOLD

GLM Statistics	Off
Dynamic t-maps	Off
Ignore meas. at start	0
Ignore after transition	0
Model transition states	On
Temp. highpass filter	On
Threshold	4.00
Paradigm size	20
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Baseline
Meas[4]	Baseline
Meas[5]	Baseline
Meas[6]	Baseline
Meas[7]	Baseline
Meas[8]	Baseline
Meas[9]	Baseline
Meas[10]	Baseline
Meas[11]	Active
Meas[12]	Active
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Meas[16]	Active
Meas[17]	Active
Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off
Measurements	50

Sequence - Part 1

Introduction	On
Dimension	3D
Reordering	Linear
Asymmetric echo	Off
Contrasts	1
Multi-slice mode	Interleaved
Echo spacing	1.36 ms

Sequence - Part 1

Bandwidth	836 Hz/Px

Sequence - Part 2

EPI factor	34
Segmentation	2
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Turbo factor	26

Sequence - Special

PATRef FA	12 deg
RF duration	2500 us
RF BWT product	25
Slab Scale	90 %
Ernst T1	2500 ms
PATRef prep. shots	10
Volume dummy shots	0
Dummy Measurements	0
Invert PE	Off
Invert 3D	Off
Min. TE if PF	On
Are you Renzo?	On
Echo Time Shift	On
Water Exc.	-none-
External PC	per Series
Saturation RF	per Shot
HSN RF power scale	2.00
Inversion Delay	650000 us
Relaxation Delay	0 us

Sequence - Assistant

Mode	Off