

SIEMENS MAGNETOM TrioTim syngo MR B13

\\USER\NEURO\HEAD\Brain\SCOUT

TA: 0:27 PAT: Off Voxel size: 1.0x1.0x5.0 mm Rel. SNR: 1.00 SIEMENS: trufi

Properties

Prio Recon	Off
Voice output before	
Voice output after	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load to graphic segments	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	12
Dist. factor	50 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 2	
Slices	10
Dist. factor	50 %
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
Rotation	0.00 deg
Slice group 3	
Slices	5
Dist. factor	50 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	250 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	4.09 ms
TE	2.05 ms
Averages	1
Filter	Distortion Corr.(2D)
Coil elements	HEA;HEP

Contrast

TD	0 ms
Magn. preparation	None
Flip angle	63 deg
Fat suppr.	None

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

Resolution

Base resolution	256
Phase resolution	100 %
Phase partial Fourier	7/8
Filter 1	
Raw filter	Off

Filter 2

Distortion Corr.	2D
Unfiltered images	Off

Filter 3

Prescan Normalize	Off
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Filter 4

Normalize	Off
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Filter 5

Elliptical filter	Off
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Filter 6

Image Filter	Off
Interpolation	Off

PAT mode	None
Matrix Coil Mode	Auto (CP)

Geometry

Multi-slice mode	Sequential
Series	Interleaved

Set-n-Go Protocol	Off
Inline Composing	Off

System

Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	L >> R
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine

Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	298.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	Isocenter
Orientation	Sagittal
Rotation	0.00 deg
F >> H	250 mm
A >> P	250 mm
R >> L	250 mm

Physio

1st Signal/Mode	None
Segments	1

Resp. control	Off

Inline

Subtract	Off
Std-Dev-Sag	Off
Std-Dev-Cor	Off
Std-Dev-Tra	Off
Std-Dev-Time	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off

SIEMENS MAGNETOM TrioTim syngo MR B13

MIP-Time	Off
Save original images	On

Sequence

Introduction	On
Dimension	2D
Reordering	Linear
Asymmetric echo	Off
Bandwidth	673 Hz/Px
Flow comp.	No

RF pulse type	Fast
Gradient mode	Fast
Excitation	Slice-sel.

SIEMENS MAGNETOM TrioTim syngo MR B13

\\USER\NEURO\HEAD\Brain\AX FLAIR

TA: 3:02 PAT: 2 Voxel size: 0.7x0.7x5.0 mm Rel. SNR: 1.00 SIEMENS: tse_rst

Properties

Prio Recon	Off
Voice output before	
Voice output after	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load to graphic segments	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	30
Dist. factor	0 %
Position	L0.0 A18.2 H20.9
Orientation	T > C-12.2
Phase enc. dir.	R >> L
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	220 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	9013 ms
TE	134 ms
Averages	1
Concatenations	2
Filter	None
Coil elements	HEA;HEP

Contrast

TD	0.0 ms
MTC	Off
Magn. preparation	Slice-sel. IR
TI	2500 ms
Flip angle	140 deg
Fat suppr.	None
Fat sat. mode	Strong
Water suppr.	None
Restore magn.	Off

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

Resolution

Base resolution	320
Filter 1	
Raw filter	Off
Filter 2	
Distortion Corr.	Off
Filter 3	
Prescan Normalize	Off
Filter 4	
Normalize	Off
Filter 5	
Elliptical filter	Off
Filter 6	
Image Filter	Off

Trajectory	BLADE
Interpolation	Off

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	8
Matrix Coil Mode	Auto (Triple)
Reference scan mode	Integrated

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.	None

Set-n-Go Protocol	Off
Inline Composing	Off

System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	Off

Positioning mode	REF
Table position	H
Table position	21 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine

Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	298.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm

Physio

1st Signal/Mode	None

Dark blood	Off

Resp. control	Off

Inline

Subtract	Off
Std-Dev-Sag	Off
Std-Dev-Cor	Off
Std-Dev-Tra	Off
Std-Dev-Time	Off

SIEMENS MAGNETOM TrioTim syngo MR B13

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

Sequence

Introduction	On
Dimension	2D
Compensate T2 decay	Off
Contrasts	1
Bandwidth	252 Hz/Px
Flow comp.	No
Allowed delay	30 s
Echo spacing	7.47 ms

Define	Turbo factor
Turbo factor	35
Echo trains per slice	9
RF pulse type	Fast
Gradient mode	Fast

SIEMENS MAGNETOM TrioTim syngo MR B13

\\USER\NEURO\HEAD\Brain\AX T2

TA: 3:16 PAT: 2 Voxel size: 0.7x0.7x5.0 mm Rel. SNR: 1.00 SIEMENS: tse_rst

Properties

Prio Recon	Off
Voice output before	
Voice output after	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load to graphic segments	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	30
Dist. factor	0 %
Position	L0.0 A18.2 H20.9
Orientation	T > C-12.2
Phase enc. dir.	R >> L
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	220 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	5710 ms
TE	113 ms
Averages	1
Concatenations	2
Filter	None
Coil elements	HEA;HEP

Contrast

TD	0.0 ms
MTC	Off
Magn. preparation	None
Flip angle	140 deg
Fat suppr.	None
Fat sat. mode	Strong
Water suppr.	None
Restore magn.	Off

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

Resolution

Base resolution	320
Filter 1	
Raw filter	Off
Filter 2	
Distortion Corr.	Off
Filter 3	
Prescan Normalize	Off
Filter 4	
Normalize	Off
Filter 5	
Elliptical filter	Off
Filter 6	
Image Filter	Off
Trajectory	BLADE

Interpolation	Off

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	8
Matrix Coil Mode	Auto (Triple)
Reference scan mode	Integrated

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.	None

Set-n-Go Protocol	Off
Inline Composing	Off

System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	Off

Positioning mode	REF
Table position	H
Table position	21 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine

Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	298.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm

Physio

1st Signal/Mode	None

Dark blood	Off

Resp. control	Off

Inline

Subtract	Off
Std-Dev-Sag	Off
Std-Dev-Cor	Off
Std-Dev-Tra	Off
Std-Dev-Time	Off
MIP-Sag	Off

SIEMENS MAGNETOM TrioTim syngo MR B13

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

Sequence

Introduction	On
Dimension	2D
Compensate T2 decay	Off
Contrasts	1
Bandwidth	363 Hz/Px
Flow comp.	No
Allowed delay	30 s
Echo spacing	6.25 ms

Define	Turbo factor
Turbo factor	35
Echo trains per slice	16
RF pulse type	Fast
Gradient mode	Fast

SIEMENS MAGNETOM TrioTim syngo MR B13

\\USER\NEURO\HEAD\Brain\AX 3D MPR

TA: 4:31 PAT: 2 Voxel size: 1.0x1.0x1.0 mm Rel. SNR: 1.00 SIEMENS: tfl

Properties

Prio Recon	Off
Voice output before	
Voice output after	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load to graphic segments	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L0.1 A28.6 H4.7
Orientation	Transversal
Phase enc. dir.	R >> L
Rotation	90.00 deg
Phase oversampling	0 %
Slice oversampling	33 %
Slices per slab	192
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	1.00 mm
TR	2200 ms
TE	2.26 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast

Magn. preparation	Slice-sel. IR
TI	1100 ms
Flip angle	12 deg
Fat suppr.	None
Water suppr.	None

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

Resolution

Base resolution	256
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	7/8
Slice partial Fourier	7/8
Filter 1	
Raw filter	Off
Filter 2	
Distortion Corr.	Off
Filter 3	
Prescan Normalize	Off
Filter 4	
Normalize	Off
Filter 5	
Elliptical filter	Off

Filter 6

Image Filter	Off
Interpolation	Off

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

Geometry

Multi-slice mode	Single shot
Series	Interleaved

Set-n-Go Protocol	Off
Inline Composing	Off

System

Body	Off
NE2	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	Off

Positioning mode	REF
Table position	H
Table position	5 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Save uncombined	Off
Coil Combine Mode	Sum of Squares

Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	298.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L0.1 A28.6 H4.7
Orientation	Transversal
Rotation	90.00 deg
A >> P	256 mm
R >> L	256 mm
F >> H	192 mm

Physio

1st Signal/Mode	None

Dark blood	Off

Resp. control	Off

Inline

Subtract	Off
Std-Dev-Sag	Off
Std-Dev-Cor	Off
Std-Dev-Tra	Off

SIEMENS MAGNETOM TrioTim syngo MR B13

Std-Dev-Time	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

Sequence

Introduction	Off
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Allowed
Bandwidth	260 Hz/Px
Flow comp.	No
Echo spacing	5.5 ms

RF pulse type	Fast
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On

SIEMENS MAGNETOM TrioTim syngo MR B13

\\USER\NEURO\HEAD\Brain\AX HEMOFLASH

TA: 2:35 PAT: Off Voxel size: 1.1x0.7x5.0 mm Rel. SNR: 1.00 SIEMENS: gre

Properties

Prio Recon	Off
Voice output before	
Voice output after	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load to graphic segments	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	30
Dist. factor	0 %
Position	L0.0 A18.2 H20.9
Orientation	T > C-12.2
Phase enc. dir.	R >> L
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	220 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	800 ms
TE	20.00 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D)
Coil elements	HEA;HEP

Contrast

MTC	Off
Magn. preparation	None
Flip angle	25 deg
Fat suppr.	None
Water suppr.	None

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

Resolution

Base resolution	320
Phase resolution	60 %
Phase partial Fourier	Off
Filter 1	
Raw filter	Off
Filter 2	
Distortion Corr.	2D
Unfiltered images	Off
Filter 3	
Prescan Normalize	Off
Filter 4	
Normalize	Off
Filter 5	
Elliptical filter	Off
Filter 6	
Image Filter	Off
Interpolation	Off

PAT mode None
Matrix Coil Mode Auto (CP)

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Saturation mode	Standard
Special sat.	None

Set-n-Go Protocol	Off
Inline Composing	Off

System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	Off

Positioning mode	REF
Table position	H
Table position	21 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares

Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	298.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm

Physio

1st Signal/Mode	None
Segments	1

Tagging	None
Dark blood	Off

Resp. control	Off

Inline

Subtract	Off
Std-Dev-Sag	Off
Std-Dev-Cor	Off
Std-Dev-Tra	Off
Std-Dev-Time	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off

SIEMENS MAGNETOM TrioTim syngo MR B13

MIP-Time	Off
Save original images	On

Sequence

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Off
Contrasts	1
Bandwidth	260 Hz/Px
Flow comp.	No
Allowed delay	0 s

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

SIEMENS MAGNETOM TrioTim syngo MR B13

\\USER\NEURO\HEAD\Brain\Ax DIFFUSION

TA: 3:56 PAT: 2 Voxel size: 1.2x1.2x5.0 mm Rel. SNR: 1.00 SIEMENS: ep2d_diff

Properties

Prio Recon	Off
Voice output before	
Voice output after	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load to graphic segments	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	30
Dist. factor	0 %
Position	L0.0 A18.2 H20.9
Orientation	T > C-12.2
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	230 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	5200 ms
TE	106 ms
Averages	2
Concatenations	1
Filter	Raw filter
Coil elements	HEA;HEP

Contrast

MTC	Off
Magn. preparation	None
Fat suppr.	Fat sat.

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

Resolution

Base resolution	192
Phase resolution	100 %
Phase partial Fourier	6/8
Filter 1	
Raw filter	On
Intensity	Weak
Slope	25
Filter 2	
Distortion Corr.	Off
Filter 3	
Prescan Normalize	Off
Filter 4	
Elliptical filter	Off
Filter 5	
Hamming	Off
Interpolation	Off

PAT mode	GRAPPA
Accel. factor PE	2

Ref. lines PE	47
Matrix Coil Mode	Auto (Triple)
Reference scan mode	Separate

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.	None

Set-n-Go Protocol	Off
Inline Composing	Off

System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	Off

Positioning mode	REF
Table position	H
Table position	21 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Adaptive Combine

Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	298.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L0.0 A18.2 H20.9
Orientation	T > C-12.2
Rotation	0.00 deg
R >> L	230 mm
A >> P	230 mm
F >> H	150 mm

Physio

1st Signal/Mode	None
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Diff

Diffusion mode	MDDW
Diff. weightings	2
b-value 1	0 s/mm ²
b-value 2	1000 s/mm ²
Noise level	40
Diff. directions	20

Sequence

Introduction	On
Bandwidth	1240 Hz/Px
Free echo spacing	Off
Echo spacing	1.03 ms

EPI factor	192

SIEMENS MAGNETOM TrioTim syngo MR B13

RF pulse type
Gradient mode

Normal
Fast*

SIEMENS MAGNETOM TrioTim syngo MR B13

\\USER\NEUROHEAD\Brain\SAG FLAIR

TA: 4:03 PAT: 2 Voxel size: 1.3x0.9x5.0 mm Rel. SNR: 1.00 SIEMENS: tse

Properties

Prio Recon	Off
Voice output before	
Voice output after	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load to graphic segments	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	30
Dist. factor	0 %
Position	R3.5 A20.1 H7.3
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	230 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	9000 ms
TE	87 ms
Averages	1
Concatenations	3
Filter	Prescan Normalize, Elliptical filter
Coil elements	HEA;HEP

Contrast

TD	0.0 ms
MTC	Off
Magn. preparation	Slice-sel. IR
TI	2500 ms
Flip angle	160 deg
Fat suppr.	None
Fat sat. mode	Strong
Water suppr.	None

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

Resolution

Base resolution	256
Phase resolution	70 %
Phase partial Fourier	Off
Filter 1	
Raw filter	Off
Filter 2	
Distortion Corr.	Off
Filter 3	
Prescan Normalize	On
Unfiltered images	Off
Filter 4	
Normalize	Off
Filter 5	

Elliptical filter	On
Filter 6	
Image Filter	Off
Interpolation	Off

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	26
Matrix Coil Mode	Auto (Triple)
Reference scan mode	Integrated

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.	None
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Set-n-Go Protocol	Off
Inline Composing	Off

System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	Off

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

Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	298.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R3.5 A20.1 H7.3
Orientation	Sagittal
Rotation	0.00 deg
F >> H	230 mm
A >> P	230 mm
R >> L	150 mm

Physio

1st Signal/Mode	None

Dark blood	Off

Resp. control	Off

Inline

Subtract	Off
Std-Dev-Sag	Off
Std-Dev-Cor	Off

SIEMENS MAGNETOM TrioTim syngo MR B13

Std-Dev-Tra	Off
Std-Dev-Time	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

Sequence

Introduction	Off
Dimension	2D
Compensate T2 decay	Off
Contrasts	1
Bandwidth	283 Hz/Px
Flow comp.	Slice
Allowed delay	30 s
Echo spacing	10.9 ms

Define	Turbo factor
Turbo factor	13
Echo trains per slice	8
RF pulse type	Low SAR
Gradient mode	Fast

Table of contents

\\USER	NEURO	HEAD	Brain	SCOUT
				AX FLAIR
				AX T2
				AX 3D MPR
				AX HEMOFLASH
				Ax DIFFUSION
				SAG FLAIR