

SIEMENS MAGNETOM TrioTim syngo MR B15

\USER\INVESTIGATORS\Gabriel\Frida_32Ch\localizer_BC			
TA: 0:13	PAT: Off	Voxel size: 1.1x1.0x7.0 mm	Rel. SNR: 1.00
SIEMENS: gre			
Properties			
Prio Recon	Off	Phase resolution	90 %
Before measurement		Phase partial Fourier	Off
After measurement		Interpolation	On
Load to viewer	Off	PAT mode	None
Inline movie	Off	Matrix Coil Mode	Auto (CP)
Auto store images	On	Image Filter	Off
Load to stamp segments	Off	Distortion Corr.	Off
Load images to graphic segments	Off	Prescan Normalize	Off
Auto open inline display	Off	Normalize	On
AutoAlign Spine	Off	Intensity	Medium
Start measurement without further preparation	Off	Cut off	20
Wait for user to start	Off	Width	4
Start measurements	single	Unfiltered images	Off
		Raw filter	Off
		Elliptical filter	On
		Mode	Inplane
Routine			
Slice group 1		Geometry	
Slices	1	Multi-slice mode	Sequential
Dist. factor	20 %	Series	Interleaved
Position	Isocenter	Saturation mode	Standard
Orientation	Sagittal	Special sat.	None
Phase enc. dir.	A >> P		
Rotation	0.00 deg	System	
Slice group 2		Body	On
Slices	1	HEP	Off
Dist. factor	20 %	HEA	Off
Position	Isocenter	Positioning mode	REF
Orientation	Transversal	Table position	H
Phase enc. dir.	A >> P	Table position	0 mm
Rotation	0.00 deg	MSMA	S - C - T
Slice group 3		Sagittal	R >> L
Slices	1	Coronal	A >> P
Dist. factor	20 %	Transversal	F >> H
Position	Isocenter	Save uncombined	Off
Orientation	Coronal	Coil Combine Mode	Sum of Squares
Phase enc. dir.	R >> L	Auto Coil Select	Default
Rotation	0.00 deg		
Phase oversampling	0 %	Shim mode	Tune up
FoV read	250 mm	Adjust with body coil	Off
FoV phase	100.0 %	Confirm freq. adjustment	Off
Slice thickness	7.0 mm	Assume Silicone	Off
TR	8.6 ms	Ref. amplitude 1H	309.546 V
TE	4.00 ms	Adjustment Tolerance	Auto
Averages	2	Adjust volume	
Concatenations	3	Position	Isocenter
Filter	Normalize, Elliptical filter	Orientation	Transversal
Coil elements	BC	Rotation	0.00 deg
Contrast		R >> L	350 mm
TD	0 ms	A >> P	263 mm
MTC	Off	F >> H	350 mm
Magn. preparation	None		
Flip angle	20 deg	Physio	
Fat suppr.	None	1st Signal/Mode	None
Water suppr.	None	Segments	1
Averaging mode	Short term	Dark blood	Off
Reconstruction	Magnitude	Resp. control	Off
Measurements	1		
Multiple series	Each measurement	Inline	
Resolution		Subtract	Off
Base resolution	256	Liver registration	Off
		Std-Dev-Sag	Off

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

Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off

Sequence

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Allowed
Contrasts	1
Bandwidth	320 Hz/Px
Flow comp.	No
Allowed delay	0 s

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

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\\USER\\INVESTIGATORS\\Gabrieli\\Frida_32Ch\\localizer_32
 TA: 0:13 PAT: Off Voxel size: 1.1x1.0x7.0 mm Rel. SNR: 1.00 SIEMENS: gre

Properties		Phase resolution	90 %
Prio Recon	Off	Phase partial Fourier	Off
Before measurement		Interpolation	On
After measurement			
Load to viewer	Off	PAT mode	None
Inline movie	Off	Matrix Coil Mode	Auto (CP)
Auto store images	On		
Load to stamp segments	Off	Image Filter	Off
Load images to graphic segments	Off	Distortion Corr.	Off
Auto open inline display	Off	Prescan Normalize	Off
AutoAlign Spine	Off	Normalize	On
Start measurement without further preparation	Off	Intensity	Medium
Wait for user to start	Off	Cut off	20
Start measurements	single	Width	4
		Unfiltered images	Off
		Raw filter	Off
		Elliptical filter	On
		Mode	Inplane
Routine		Geometry	
Slice group 1		Multi-slice mode	Sequential
Slices	1	Series	Interleaved
Dist. factor	20 %		
Position	Isocenter	Saturation mode	Standard
Orientation	Sagittal	Special sat.	None
Phase enc. dir.	A >> P		
Rotation	0.00 deg	System	
Slice group 2		Body	Off
Slices	1	HEP	On
Dist. factor	20 %	HEA	On
Position	Isocenter		
Orientation	Transversal	Positioning mode	REF
Phase enc. dir.	A >> P	Table position	H
Rotation	0.00 deg	Table position	0 mm
Slice group 3		MSMA	S - C - T
Slices	1	Sagittal	R >> L
Dist. factor	20 %	Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Coronal	Save uncombined	Off
Phase enc. dir.	R >> L	Coil Combine Mode	Sum of Squares
Rotation	0.00 deg	Auto Coil Select	Default
Phase oversampling	0 %		
FoV read	250 mm	Shim mode	Tune up
FoV phase	100.0 %	Adjust with body coil	Off
Slice thickness	7.0 mm	Confirm freq. adjustment	Off
TR	8.6 ms	Assume Silicone	Off
TE	4.00 ms	Ref. amplitude 1H	309.546 V
Averages	2	Adjustment Tolerance	Auto
Concatenations	3	Adjust volume	
Filter	Normalize, Elliptical filter	Position	Isocenter
Coil elements	HEA;HEP	Orientation	Transversal
		Rotation	0.00 deg
Contrast		R >> L	350 mm
TD	0 ms	A >> P	263 mm
MTC	Off	F >> H	350 mm
Magn. preparation	None		
Flip angle	20 deg	Physio	
Fat suppr.	None	1st Signal/Mode	None
Water suppr.	None	Segments	1
Averaging mode	Short term		
Reconstruction	Magnitude	Dark blood	Off
Measurements	1	Resp. control	Off
Multiple series	Each measurement		
Resolution		Inline	
Base resolution	256	Subtract	Off
		Liver registration	Off
		Std-Dev-Sag	Off

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

Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off

Sequence

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Allowed
Contrasts	1
Bandwidth	320 Hz/Px
Flow comp.	No
Allowed delay	0 s

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

SIEMENS MAGNETOM TrioTim syngo MR B15

\\USER\\INVESTIGATORS\\Gabrieli\\Frida_32Ch\\AAScout

+ TA: 0:46

Voxel size: 3.3x2.5x2.5 mm

Rel. SNR: 1.00

SIEMENS: AAScout

Properties

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

Routine

Slab group 1	
Slabs	1
Dist. factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	128
FoV read	320 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	2.4 ms
TE	1.13 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	BC

Contrast

Fat suppr.	None
Fat sat. mode	Strong
Water suppr.	None
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	2
Pause after meas. 1	0.0 s
Multiple series	Off

Resolution

Base resolution	128
Phase resolution	75 %
Slice resolution	75 %
Phase partial Fourier	Off
Slice partial Fourier	Off
Matrix Coil Mode	Auto (CP)
Prescan Normalize	Off
Normalize	Off

Geometry

Multi-slice mode	Sequential
Series	Ascending
Special sat.	None

System

Body	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
Auto Coil Select	Default
Shim mode	Tune up
Adjust with body coil	On
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	309.546 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
Inline	
Sequence	
Introduction	On
Dimension	3D
Elliptical scanning	Off
Phase stabilisation	Off
Asymmetric echo	Off
Bandwidth	1090 Hz/Px
Segments	1
RF pulse type	Normal
Gradient mode	Normal
Excitation	Non-sel.
RF spoiling	On

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\USER\INVESTIGATORS\Gabrieli\Frida_32Ch\T1_MPRAGE_1iso_5min53sec

TA: 5:53 PAT: 2 Voxel size: 1.0x1.0x1.0 mm Rel. SNR: 1.00 USER: Andre\tfl_mgh_multiecho

Properties		Distortion Corr.	Off
Prio Recon	Off	Unfiltered images	On
Before measurement		Prescan Normalize	On
After measurement		Normalize	Off
Load to viewer	On	Raw filter	Off
Inline movie	Off	Elliptical filter	Off
Auto store images	On	Geometry	
Load to stamp segments	Off	Multi-slice mode	Single shot
Load images to graphic segments	Off	Series	Interleaved
Auto open inline display	Off	System	
AutoAlign Spine	Off	Body	Off
Start measurement without further preparation	On	HEP	On
Wait for user to start	Off	HEA	On
Start measurements	single	Positioning mode	REF
Routine		Table position	H
Slab group 1		Table position	0 mm
Slabs	1	MSMA	S - C - T
Dist. factor	50 %	Sagittal	R >> L
Position	R3.0 A3.0 H0.0	Coronal	A >> P
Orientation	Sagittal	Transversal	F >> H
Phase enc. dir.	A >> P	Save uncombined	Off
Rotation	12.50 deg	Coil Combine Mode	Adaptive Combine
Phase oversampling	0 %	Auto Coil Select	Default
Slice oversampling	0.0 %	Shim mode	Standard
Slices per slab	176	Adjust with body coil	Off
FoV read	256 mm	Confirm freq. adjustment	Off
FoV phase	100.0 %	Assume Silicone	Off
Slice thickness	1.00 mm	Ref. amplitude 1H	309.546 V
TR	2530 ms	Adjustment Tolerance	Auto
TE	3.39 ms	Adjust volume	
Averages	1	Position	R3.0 A3.0 H0.0
Concatenations	1	Orientation	Sagittal
Filter	Prescan Normalize	Rotation	12.50 deg
Coil elements	HEA;HEP	F >> H	256 mm
Contrast		A >> P	256 mm
Magn. preparation	Non-sel. IR	R >> L	176 mm
TI	900 ms	Physio	
Flip angle	9.0 deg	1st Signal/Mode	None
Fat suppr.	None	Dark blood	Off
Water suppr.	None	Inline	
Averaging mode	Long term	Subtract	Off
Reconstruction	Magnitude	Std-Dev-Sag	Off
Measurements	1	Std-Dev-Cor	Off
Multiple series	Each measurement	Std-Dev-Tra	Off
Resolution		Std-Dev-Time	Off
Base resolution	256	MIP-Sag	Off
Phase resolution	100 %	MIP-Cor	Off
Slice resolution	100 %	MIP-Tra	Off
Phase partial Fourier	Off	MIP-Time	Off
Slice partial Fourier	Off	Save original images	On
Interpolation	Off	Sequence	
PAT mode	GRAPPA	Introduction	On
Accel. factor PE	2	Dimension	3D
Ref. lines PE	24	Elliptical scanning	Off
Accel. factor 3D	1	Asymmetric echo	Off
Matrix Coil Mode	Auto (Triple)	Contrasts	1
Reference scan mode	Integrated	Bandwidth	190 Hz/Px
Image Filter	Off	Flow comp.	No
		Echo spacing	7.6 ms

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RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	On
-----	-----
Readout polarity	Positive
Readout trajectory	Bipolar
Add. scale factor	8.0
Gradient spoiling	Integral
Gradient moment factor	2.0
Siemens reconstruction	On
Save raw k-space data	Off
Averaging	None

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\USER\INVESTIGATORS\Gabrieli\Frida_32Ch\ge_functionals_128_PACE_ACPC-30

TA: 0:35 PAT: Off Voxel size: 1.7x1.7x4.5 mm Rel. SNR: 1.00 USER: ep2d_pace_MGH

Properties

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

Routine

Slice group 1	
Slices	27
Dist. factor	10 %
Position	R5.1 P9.0 H5.3
Orientation	C > T-42.7 > S0.3
Phase enc. dir.	H >> F
Rotation	-90.46 deg
Phase oversampling	0 %
FoV read	220 mm
FoV phase	100.0 %
Slice thickness	4.5 mm
TR	2500 ms
TE	30 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast

MTC	Off
Flip angle	90 deg
Fat suppr.	Fat sat.
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	10
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	128
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off
PAT mode	None
Matrix Coil Mode	Auto (CP)
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None

System

Body	Off
HEP	On
HEA	On
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
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	309.546 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R5.1 P9.0 H5.3
Orientation	C > T-42.7 > S0.3
Rotation	-90.46 deg
R >> L	220 mm
F >> H	220 mm
A >> P	134 mm
Physio	
1st Signal/Mode	None
BOLD	
GLM Statistics	Off
Dynamic t-maps	Off
Starting ignore meas	0
Ignore after transition	0
Model transition states	Off
Temp. highpass filter	Off
Threshold	4.00
Paradigm size	1
Meas	Baseline
Motion correction	On
Interpolation	3D-K-space
Spatial filter	Off
Sequence	
Introduction	Off
Bandwidth	1502 Hz/Px
Free echo spacing	Off
Echo spacing	0.73 ms
EPI factor	128
RF pulse type	Normal
Gradient mode	Fast
Dummy Scans	4

SIEMENS MAGNETOM TrioTim syngo MR B15

\\USER\\INVESTIGATORS\\Gabrieli\\Frida_32Ch\\ge_func_3.1x3.1x4_PACE

TA: 0:28 PAT: Off Voxel size: 3.1x3.1x4.0 mm Rel. SNR: 1.00 USER: ep2d_pace_MGH

Properties

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

Routine

Slice group 1	
Slices	32
Dist. factor	10 %
Position	R5.1 P9.0 H5.3
Orientation	C > T-42.7 > S0.3
Phase enc. dir.	H >> F
Rotation	-90.46 deg
Phase oversampling	0 %
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	4.0 mm
TR	2000 ms
TE	30 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast

MTC	Off
Flip angle	90 deg
Fat suppr.	Fat sat.
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	10
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	64
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
PAT mode	None
Matrix Coil Mode	Auto (CP)
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None

System

Body	Off
HEP	On
HEA	On
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
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	309.546 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R5.1 P9.0 H5.3
Orientation	C > T-42.7 > S0.3
Rotation	-90.46 deg
R >> L	200 mm
F >> H	200 mm
A >> P	141 mm
Physio	
1st Signal/Mode	None
BOLD	
GLM Statistics	Off
Dynamic t-maps	Off
Starting ignore meas	0
Ignore after transition	0
Model transition states	Off
Temp. highpass filter	Off
Threshold	4.00
Paradigm size	1
Meas	Baseline
Motion correction	On
Interpolation	3D-K-space
Spatial filter	Off
Sequence	
Introduction	Off
Bandwidth	2298 Hz/Px
Free echo spacing	Off
Echo spacing	0.5 ms
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast
Dummy Scans	4

SIEMENS MAGNETOM TrioTim syngo MR B15

\\USER\\INVESTIGATORS\\Gabrieli\\Frida_32Ch\\field_mapping_Resting

TA: 2:14

Voxel size: 2.0x2.0x2.0 mm

Rel. SNR: 1.00

SIEMENS: gre_field_mapping

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	Off
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images 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	67
Dist. factor	0 %
Position	R5.1 A5.2 H21.7
Orientation	T > C-38.6 > S0.1
Phase enc. dir.	A >> P
Rotation	-0.78 deg
Phase oversampling	0 %
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	520.0 ms
TE 1	3.41 ms
TE 2	5.87 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast

MTC	Off
Flip angle	55 deg
Fat suppr.	None
Averaging mode	Short term
Reconstruction	Magn./Phase
Measurements	1
Multiple series	Each measurement

Resolution

Base resolution	128
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
Matrix Coil Mode	Auto (CP)
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None

System

Body	Off
HEP	On
HEA	On
Positioning mode	FIX
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
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	309.546 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R5.1 A5.2 H21.7
Orientation	T > C-38.6 > S0.1
Rotation	-0.78 deg
R >> L	256 mm
A >> P	256 mm
F >> H	134 mm
Sequence	
Introduction	Off
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Bandwidth	1502 Hz/Px
Flow comp.	Yes
RF pulse type	Normal
Gradient mode	Fast
RF spoiling	On

SIEMENS MAGNETOM TrioTim syngo MR B15

\\USER\\INVESTIGATORS\\Gabrieli\\Frida_32Ch\\ge_func_2x2x2_Resting

TA: 6:24 PAT: Off Voxel size: 2.0x2.0x2.0 mm Rel. SNR: 1.00 USER: ep2d_pace_MGH

Properties

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

Routine

Slice group 1	
Slices	67
Dist. factor	0 %
Position	R5.1 A5.2 H21.7
Orientation	T > C-38.6 > S0.1
Phase enc. dir.	A >> P
Rotation	-0.77 deg
Phase oversampling	0 %
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	6000 ms
TE	30 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast

MTC	Off
Flip angle	90 deg
Fat suppr.	Fat sat.
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	62
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	128
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off
PAT mode	None
Matrix Coil Mode	Auto (CP)
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None

System

Body	Off
HEP	On
HEA	On
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
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	309.546 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R5.1 A5.2 H21.7
Orientation	T > C-38.6 > S0.1
Rotation	-0.77 deg
R >> L	256 mm
A >> P	256 mm
F >> H	134 mm
Physio	
1st Signal/Mode	None
BOLD	
GLM Statistics	Off
Dynamic t-maps	Off
Starting ignore meas	0
Ignore after transition	0
Model transition states	Off
Temp. highpass filter	Off
Threshold	4.00
Paradigm size	1
Meas	Baseline
Motion correction	On
Interpolation	3D-K-space
Spatial filter	Off
Sequence	
Introduction	Off
Bandwidth	1562 Hz/Px
Free echo spacing	Off
Echo spacing	0.7 ms
EPI factor	128
RF pulse type	Normal
Gradient mode	Fast
Dummy Scans	2

SIEMENS MAGNETOM TrioTim syngo MR B15

\USER\INVESTIGATORS\Gabriel\TrioTim\Diffusion\HighRes

TA: 9:44 PAT: 2 Voxel size: 2.0x2.0x2.0 mm Rel. SNR: 1.00 USER: ep2d_diff_MGH

Properties		Multi-slice mode	Interleaved	
Prio Recon	Off	Series	Interleaved	
Before measurement		Special sat.	None	
System				
After measurement		Body	Off	
Load to viewer	On	HEP	On	
Inline movie	Off	HEA	On	
Auto store images	On	Positioning mode	REF	
Load to stamp segments	On	Table position	H	
Load images to graphic segments	Off	Table position	0 mm	
Auto open inline display	On	MSMA	S - C - T	
AutoAlign Spine	Off	Sagittal	R >> L	
Start measurement without further preparation	On	Coronal	A >> P	
Wait for user to start	Off	Transversal	F >> H	
Start measurements	single	Coil Combine Mode	Adaptive Combine	
Routine			Auto Coil Select	
Slice group 1		Shim mode	Standard	
Slices	64	Adjust with body coil	Off	
Dist. factor	0 %	Confirm freq. adjustment	Off	
Position	R3.0 A3.0 H0.0	Assume Silicone	Off	
Orientation	T > C-12.5	Ref. amplitude 1H	309.546 V	
Phase enc. dir.	A >> P	Adjustment Tolerance	Auto	
Rotation	0.00 deg	Adjust volume		
Phase oversampling	0 %	Position	R3.0 A3.0 H0.0	
FoV read	256 mm	Orientation	T > C-12.5	
FoV phase	100.0 %	Rotation	0.00 deg	
Slice thickness	2.00 mm	R >> L	256 mm	
TR	7980 ms	A >> P	256 mm	
TE	84 ms	F >> H	128 mm	
Averages	1	Physio		
Concatenations	1	1st Signal/Mode	None	
Filter	Raw filter, Prescan Normalize	Resp. control	Off	
Coil elements	HEA;HEP	Diff		
Contrast		Diffusion mode	MDDW	
MTC	Off	Diff. weightings	2	
Magn. preparation	None	b-value 1	0 s/mm ²	
Fat suppr.	Fat sat.	b-value 2	700 s/mm ²	
Resolution		Mosaic	On	
Base resolution	128	Noise level	40	
Phase resolution	100 %	Diff. directions	60	
Phase partial Fourier	6/8	Sequence		
Interpolation	Off	Introduction	On	
PAT mode		Bandwidth	1396 Hz/Px	
Accel. factor PE	GRAPPA	Free echo spacing	Off	
Ref. lines PE	2	Echo spacing	0.8 ms	
Matrix Coil Mode	32	EPI		
Reference scan mode	Auto (Triple)	EPI factor	128	
	Separate	RF pulse type	Normal	
Distortion Corr.	Off	Gradient mode	Fast*	
Prescan Normalize	On	Sequence Mode		
Raw filter	On	Diff Grad Table	Product	
Intensity	Weak	Direction Scheme	Single	
Slope	25	Dummy Scans	Single	
Elliptical filter	Off	T2 Weighted Images	3	
Hamming	Off		10	

Geometry

SIEMENS MAGNETOM TrioTim syngo MR B15

\\USER\\INVESTIGATORS\\Gabrieli\\Frida_32Ch\\ep2d_pasl_FairQuipssl

TA: 5:08 PAT: Off Voxel size: 4.0x4.0x6.0 mm Rel. SNR: 1.00 USER: ep2d_pasl_414A

Properties		Multi-slice mode Series	Interleaved Ascending
Prio Recon	Off	Special sat.	Parallel F
Before measurement		Gap	25.0 mm
After measurement		Thickness	100 mm
Load to viewer	On	System	
Inline movie	Off	Body	Off
Auto store images	On	HEP	On
Load to stamp segments	Off	HEA	On
Load images to graphic segments	Off	Positioning mode	REF
Auto open inline display	Off	Table position	H
AutoAlign Spine	Off	Table position	0 mm
Start measurement without further preparation	On	MSMA	S - C - T
Wait for user to start	Off	Sagittal	R >> L
Start measurements	single	Coronal	A >> P
Routine		Transversal	F >> H
Slice group 1		Save uncombined	Off
Slices	16	Coil Combine Mode	Sum of Squares
Dist. factor	20 %	Auto Coil Select	Default
Position	Isocenter	Shim mode	Standard
Orientation	Transversal	Adjust with body coil	Off
Phase enc. dir.	A >> P	Confirm freq. adjustment	Off
Rotation	0.00 deg	Assume Silicone	Off
Phase oversampling	0 %	Ref. amplitude 1H	309.546 V
FoV read	256 mm	Adjustment Tolerance	Auto
FoV phase	75.0 %	Adjust volume	
Slice thickness	6.0 mm	Position	Isocenter
TR	3000 ms	Orientation	Transversal
TE	21 ms	Rotation	0.00 deg
Averages	1	R >> L	256 mm
Concatenations	1	A >> P	192 mm
Filter	None	F >> H	114 mm
Coil elements	HEA;HEP	Physio	
Contrast		1st Signal/Mode	None
Perfusion mode	Picore Q2TIPS	BOLD	
TI2	1600 ms	GLM Statistics	Off
TI1	700 ms	Dynamic t-maps	Off
TI1s	1400 ms	Starting ignore meas	1
Flip angle	90 deg	Ignore after transition	0
Fat suppr.	Fat sat.	Model transition states	Off
Fat sat. mode	Strong	Temp. highpass filter	On
Averaging mode	Long term	Threshold	4.00
Reconstruction	Magnitude	Paradigm size	4
Measurements	101	Meas[1]	Baseline
Delay in TR	0 ms	Meas[2]	Active
Multiple series	Off	Meas[3]	Baseline
Resolution		Meas[4]	Active
Base resolution	64	Motion correction	On
Phase resolution	100 %	Interpolation	3D-K-space
Phase partial Fourier	Off	Spatial filter	On
Interpolation	Off	Filter setting	2.0
PAT mode	None	Sequence	
Matrix Coil Mode	Auto (CP)	Introduction	On
Distortion Corr.	Off	Bandwidth	2298 Hz/Px
Prescan Normalize	Off	Free echo spacing	Off
Raw filter	Off	Echo spacing	0.5 ms
Elliptical filter	Off	EPI factor	48
Hamming	Off	RF pulse type	Normal
Geometry		Gradient mode	Fast

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Flow Limit	100.0 [cm/s]
Prep scan	4000 [ms]
FFT scale factor	100 %
PMU Recording	Off

SIEMENS MAGNETOM TrioTim syngo MR B15

\\USER\\INVESTIGATORS\\Gabrieli\\Frida_32Ch\\field_mapping_128

TA: 1:39

Voxel size: 1.7x1.7x4.5 mm Rel. SNR: 1.00 SIEMENS: gre_field_mapping

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images 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	27
Dist. factor	10 %
Position	R5.1 P9.0 H5.3
Orientation	C > T-42.7 > S0.3
Phase enc. dir.	H >> F
Rotation	-90.46 deg
Phase oversampling	0 %
FoV read	220 mm
FoV phase	100.0 %
Slice thickness	4.5 mm
TR	500.0 ms
TE 1	3.03 ms
TE 2	5.49 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast

MTC	Off
Flip angle	55 deg
Fat suppr.	None
Averaging mode	Short term
Reconstruction	Magn./Phase
Measurements	1
Multiple series	Off

Resolution

Base resolution	128
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off
Matrix Coil Mode	Auto (CP)
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None

System

Body	Off
HEP	On
HEA	On
Positioning mode	FIX
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
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	309.546 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R5.1 P9.0 H5.3
Orientation	C > T-42.7 > S0.3
Rotation	-90.46 deg
R >> L	220 mm
F >> H	220 mm
A >> P	134 mm
Sequence	
Introduction	On
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Bandwidth	1502 Hz/Px
Flow comp.	Yes
RF pulse type	Normal
Gradient mode	Fast
RF spoiling	On

SIEMENS MAGNETOM TrioTim syngo MR B15

\USER\INVESTIGATORS\Gabriel\Frida_32Ch\field_mapping_3.1x3.1x4

TA: 1:07 Voxel size: 3.1x3.1x4.0 mm Rel. SNR: 1.00 USER: gre_field_mapping_ct

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images 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	32
Dist. factor	10 %
Position	R5.1 P9.0 H5.3
Orientation	C > T-42.7 > S0.3
Phase enc. dir.	H >> F
Rotation	-90.46 deg
Phase oversampling	0 %
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	4.00 mm
TR	500.0 ms
TE 1	2.83 ms
TE 2	5.29 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast

MTC	Off
Flip angle	55 deg
Fat suppr.	None
Averaging mode	Short term
Reconstruction	Magn./Phase
Measurements	1
Multiple series	Off

Resolution

Base resolution	64
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
Matrix Coil Mode	Auto (CP)
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None

System

Body	Off
HEP	On
HEA	On
Positioning mode	FIX
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
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude 1H	309.546 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R5.1 P9.0 H5.3
Orientation	C > T-42.7 > S0.3
Rotation	-90.46 deg
R >> L	200 mm
F >> H	200 mm
A >> P	141 mm
Sequence	
Introduction	On
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Bandwidth	1532 Hz/Px
Flow comp.	Yes
RF pulse type	Normal
Gradient mode	Fast
RF spoiling	On

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\\USER\\INVESTIGATORS\\Gabrieli\\Frida_32Ch\\T1_MPRAGE

TA: 8:07 PAT: Off Voxel size: 1.3x1.0x1.3 mm Rel. SNR: 1.00 USER: Andre\\tfl_mgh_multiecho

Properties		Raw filter	Off
Prio Recon	Off	Elliptical filter	Off
Geometry			
Before measurement		Multi-slice mode	Single shot
After measurement		Series	Interleaved
System			
Load to viewer	On	Body	Off
Inline movie	Off	HEP	On
Auto store images	On	HEA	On
Load to stamp segments	Off	Positioning mode	
Load images to graphic segments	Off	Table position	REF
Auto open inline display	Off	Table position	H
AutoAlign Spine	Off	0 mm	
Start measurement without further preparation	On	MSMA	S - C - T
Wait for user to start	Off	Sagittal	R >> L
Start measurements	single	Coronal	A >> P
Routine		Transversal	F >> H
Slab group 1		Save uncombined	Off
Slabs	1	Coil Combine Mode	Sum of Squares
Dist. factor	50 %	Auto Coil Select	Default
Position	R3.0 A3.0 H0.0	Shim mode	
Orientation	Sagittal	Adjust with body coil	Standard
Phase enc. dir.	A >> P	Confirm freq. adjustment	Off
Rotation	12.50 deg	Assume Silicone	Off
Phase oversampling	0 %	Ref. amplitude 1H	309.546 V
Slice oversampling	0.0 %	Adjustment Tolerance	Auto
Slices per slab	128	Adjust volume	
FoV read	256 mm	Position	R3.0 A3.0 H0.0
FoV phase	100.0 %	Orientation	Sagittal
Slice thickness	1.33 mm	Rotation	12.50 deg
TR	2530 ms	F >> H	256 mm
TE	3.39 ms	A >> P	256 mm
Averages	1	R >> L	171 mm
Concatenations	1	Physio	
Filter	Prescan Normalize	1st Signal/Mode	None
Coil elements	HEA;HEP	Dark blood	Off
Contrast		Inline	
Magn. preparation	Non-sel. IR	Subtract	Off
TI	1100 ms	Std-Dev-Sag	Off
Flip angle	7.0 deg	Std-Dev-Cor	Off
Fat suppr.	None	Std-Dev-Tra	Off
Water suppr.	None	Std-Dev-Time	Off
Averaging mode	Long term	MIP-Sag	Off
Reconstruction	Magnitude	MIP-Cor	Off
Measurements	1	MIP-Tra	Off
Multiple series	Each measurement	MIP-Time	Off
Resolution		Save original images	On
Base resolution	256	Sequence	
Phase resolution	75 %	Introduction	On
Slice resolution	100 %	Dimension	3D
Phase partial Fourier	Off	Elliptical scanning	Off
Slice partial Fourier	Off	Asymmetric echo	Off
Interpolation	Off	Contrasts	1
PAT mode	None	Bandwidth	190 Hz/Px
Matrix Coil Mode	Auto (CP)	Flow comp.	No
Image Filter	Off	Echo spacing	7.8 ms
Distortion Corr.	Off	RF pulse type	Fast
Unfiltered images	On	Gradient mode	Fast
Prescan Normalize	On	Excitation	Non-sel.
Normalize	Off	RF spoiling	On

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Readout polarity	Positive
Readout trajectory	Bipolar
Add. scale factor	8.0
Gradient spoiling	Siemens
Gradient moment factor	1
Siemens reconstruction	On
Save raw k-space data	Off
Averaging	None