

# SIEMENS MAGNETOM TrioTim syngo MR 2006T

\\USER\INVESTIGATORS\HST\_583\PhysicsClass\epi\_esp730

TA: 2.0 [s] PAT: Off Voxel size: 3.1x3.1x3.0 [mm] Rel. SNR: 1.00 USER: benner\ep2d\_bold\_MGH\_pro\_tb

## Routine

Slice group 1	
Slices	9
Dist. factor	67 [%]
Position	R0.3 A11.0 F2.1 [mm]
Orientation	T > C-10.4
Phase enc. dir.	A >> P
Rotation	0.340792 [deg]
Phase oversampling	0 [%]
FoV read	200 [mm]
FoV phase	100.0 [%]
Slice thickness	3 [mm]
TR	2000 [ms]
TE	30 [ms]
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

## Contrast

MTC	Off
Flip angle	90 [deg]
Reconstruction	Magnitude
Fat suppr.	Fat sat.
Measurements	1
Delay in TR	0 [ms]

## Resolution

Base resolution	64
Phase resolution	100 [%]
Phase partial Fourier	Off
Filter 1	
Raw filter	Off
Interpolation	Off
PAT mode	None
Matrix Coil Mode	Auto (CP)

## Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None

## System

Body	Off
HEP	On
HEA	On
Scan at current TP	Off
Scan region position	H
Scan region position	0 [mm]
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude [1H]	240.360 [V]
Adjust volume	
Position	R0.3 A11.0 F2.1 [mm]
Orientation	T > C-10.4
Rotation	0.340792 [deg]
R >> L	200 [mm]

A >> P 200 [mm]  
F >> H 44 [mm]

## Physio

1st Signal/Mode None

## BOLD

t-Test	0
Threshold	4.00
Window	Growing
Starting ignore meas	0
Paradigm size	1
Meas	Ignore
Motion correction	0
Spatial filter	0

## Sequence

Introduction	Off
Averaging mode	Long term
Bandwidth	1502 [Hz/Px]
Free echo spacing	Off
Echo spacing	0.73 [ms]
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast
Dummy Scans	0

# SIEMENS MAGNETOM TrioTim syngo MR 2006T

\\USER\INVESTIGATORS\HST\_583\PhysicsClass\epi\_esp460

TA: 2.0 [s] PAT: Off Voxel size: 3.1x3.1x3.1 [mm] Rel. SNR: 1.00 USER: benner\ep2d\_bold\_MGH\_pro\_tb

## Routine

Slice group 1	
Slices	9
Dist. factor	67 [%]
Position	R0.3 A11.0 F2.1 [mm]
Orientation	T > C-10.4
Phase enc. dir.	A >> P
Rotation	0.340792 [deg]
Phase oversampling	0 [%]
FoV read	200 [mm]
FoV phase	100.0 [%]
Slice thickness	3.1 [mm]
TR	2000 [ms]
TE	30 [ms]
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

## Contrast

MTC	Off
Flip angle	90 [deg]
Reconstruction	Magnitude
Fat suppr.	Fat sat.
Measurements	1
Delay in TR	0 [ms]

## Resolution

Base resolution	64
Phase resolution	100 [%]
Phase partial Fourier	Off
Filter 1	
Raw filter	Off
Interpolation	Off
PAT mode	None
Matrix Coil Mode	Auto (CP)

## Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None

## System

Body	Off
HEP	On
HEA	On
Scan at current TP	Off
Scan region position	H
Scan region position	0 [mm]
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude [1H]	240.360 [V]
Adjust volume	
Position	R0.3 A11.0 F2.1 [mm]
Orientation	T > C-10.4
Rotation	0.340792 [deg]
R >> L	200 [mm]

A >> P 200 [mm]  
F >> H 45 [mm]

## Physio

1st Signal/Mode None

## BOLD

t-Test	0
Threshold	4.00
Window	Growing
Starting ignore meas	0
Paradigm size	1
Meas	Ignore
Motion correction	0
Spatial filter	0

## Sequence

Introduction	Off
Averaging mode	Long term
Bandwidth	2520 [Hz/Px]
Free echo spacing	Off
Echo spacing	0.46 [ms]
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast
Dummy Scans	0

# SIEMENS MAGNETOM TrioTim syngo MR 2006T

\\USER\INVESTIGATORS\HST\_583\PhysicsClass\epi\_esp460\_grappa2

TA: 8.0 [s] PAT: 2 Voxel size: 3.0x3.0x3.0 [mm] Rel. SNR: 1.00 USER: benner/ep2d\_bold\_MGH\_pro\_tb

## Routine

Slice group 1	
Slices	9
Dist. factor	67 [%]
Position	R0.3 A23.9 H8.1 [mm]
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.340792 [deg]
Phase oversampling	0 [%]
FoV read	192 [mm]
FoV phase	100.0 [%]
Slice thickness	3 [mm]
TR	2000 [ms]
TE	30 [ms]
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

## Contrast

MTC	Off
Flip angle	90 [deg]
Reconstruction	Magnitude
Fat suppr.	Fat sat.
Measurements	1
Delay in TR	0 [ms]

## Resolution

Base resolution	64
Phase resolution	100 [%]
Phase partial Fourier	Off
Filter 1	
Raw filter	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	32
Matrix Coil Mode	Auto (Triple)

## Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None

## System

Body	Off
HEP	On
HEA	On
Scan at current TP	Off
Scan region position	H
Scan region position	0 [mm]
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude [1H]	240.360 [V]
Adjust volume	
Position	R0.3 A23.9 H8.1 [mm]
Orientation	Transversal

Rotation	0.340792 [deg]
R >> L	192 [mm]
A >> P	192 [mm]
F >> H	44 [mm]

## Physio

1st Signal/Mode	None
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## BOLD

t-Test	0
Threshold	4.00
Window	Growing
Starting ignore meas	0
Paradigm size	1
Meas	Ignore
Motion correction	0
Spatial filter	0

## Sequence

Introduction	Off
Averaging mode	Long term
Bandwidth	2520 [Hz/Px]
Free echo spacing	Off
Echo spacing	0.48 [ms]
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast
Dummy Scans	0