

# SIEMENS MAGNETOM Avanto syngo MR 2004V

\\USER\ADNI\ADNI-related\Phantom Protocol\QC Phantom-Localizer

+ TA: 0:10    PAT: Off    Voxel size: 1.9x1.5x8.0 [mm]    Rel. SNR: 1.00    SIEMENS: gre

## Routine

Slice group 1	
Slices	1
Dist. factor	20 [%]
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0 [deg]
Slice group 2	
Slices	1
Dist. factor	20 [%]
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
Rotation	0 [deg]
Slice group 3	
Slices	1
Dist. factor	20 [%]
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	R >> L
Rotation	90 [deg]
Phase oversampling	0 [%]
FoV read	280 [mm]
FoV phase	100.0 [%]
Slice thickness	8 [mm]
TR	20 [ms]
TE	5 [ms]
Averages	1
Concatenations	3
Filter	Raw filter, Normalize
Coil elements	HE1-4

## Contrast

TD	0 [ms]
MTC	Off
Magn. preparation	None
Flip angle	40 [deg]
Reconstruction	Magnitude
Fat suppr.	None
Water suppr.	None
Measurements	1

## Resolution

Base resolution	192
Phase resolution	75 [%]
Phase partial Fourier	Off
Filter 1	
Raw filter	On
Intensity	Weak
Slope	25
Filter 2	
Large FoV	Off
Filter 3	
Prescan Normalize	Off
Filter 4	
Normalize	On
Unfiltered images	Off
Filter 5	
Elliptical filter	Off
Interpolation	Off
-----	
PAT mode	None
Matrix Coil Mode	Auto (CP)

## Geometry

Multi-slice mode	Sequential
Series	Ascending

Saturation mode	Standard
Special sat.	None

## System

Body	Off
HE1	On
HE3	On
HE2	On
HE4	On
-----	
Save uncombined	Off
Scan at current TP	On
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
-----	
Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
Ref. amplitude [1H]	200.000 [V]
Adjust volume	
Position	Isocenter
Orientation	Transversal
Rotation	0 [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	0
Std-Dev-Sag	0
Std-Dev-Cor	0
Std-Dev-Tra	0
Std-Dev-Time	0
MIP-Sag	0
MIP-Cor	0
MIP-Tra	0
MIP-Time	0
Save original images	1
-----	
Wash - In	0
Wash - Out	0
TTP	0
PEI	0
MIP - time	0

## Sequence

Introduction	On
Dimension	2D
Phase stabilisation	Off
Averaging mode	Short term
Asymmetric echo	Off
Contrasts	1
Bandwidth	180 [Hz/Px]

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Flow comp.	No
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On

# SIEMENS MAGNETOM Avanto syngo MR 2004V

\\USER\ADNI\ADNI-related\Phantom Protocol\QC Phantom Sagittal MPRAGE

TA: 7:42    PAT: Off    Voxel size: 1.3x1.3x1.3 [mm]    Rel. SNR: 1.00    SIEMENS: tfl

## Routine

Slab group 1	
Slabs	1
Dist. factor	50 [%]
Position	L0.0 A20.0 H0.0 [mm]
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0 [deg]
Phase oversampling	0 [%]
Slice oversampling	20 [%]
Slices per slab	160
FoV read	240 [mm]
FoV phase	100.0 [%]
Slice thickness	1.3 [mm]
TR	2400 [ms]
TE	3.61 [ms]
Averages	1
Concatenations	1
Filter	Prescan Normalize
Coil elements	HE1-4

## Contrast

Magn. preparation	Non-sel. IR
TI	1000 [ms]
Flip angle	8 [deg]
Reconstruction	Magnitude
Fat suppr.	None
Water suppr.	None
Measurements	1

## Resolution

Base resolution	192
Phase resolution	100 [%]
Slice resolution	100 [%]
Phase partial Fourier	Off
Slice partial Fourier	Off
Filter 1	
Raw filter	Off
Filter 2	
Large FoV	Off
Filter 3	
Prescan Normalize	On
Unfiltered images	Off
Filter 4	
Normalize	Off
Filter 5	
Elliptical filter	Off
Interpolation	Off
-----	
PAT mode	None
Matrix Coil Mode	Auto (CP)

## Geometry

Multi-slice mode	Single shot
Series	Interleaved

## System

Body	Off
HE1	On
HE3	On
HE2	On
HE4	On
-----	
Save uncombined	Off
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]	200.000 [V]
Adjust volume	
Position	L0.0 A20.0 H0.0 [mm]
Orientation	Sagittal
Rotation	0 [deg]
F >> H	240 [mm]
A >> P	240 [mm]
R >> L	208 [mm]

## Physio

1st Signal/Mode	None
-----	
Dark blood	Off
-----	
Resp. control	Off

## Inline

Subtract	0
Std-Dev-Sag	0
Std-Dev-Cor	0
Std-Dev-Tra	0
Std-Dev-Time	0
MIP-Sag	0
MIP-Cor	0
MIP-Tra	0
MIP-Time	0
Save original images	1

## Sequence

Introduction	On
Dimension	3D
Elliptical scanning	Off
Averaging mode	Long term
Asymmetric echo	Off
Bandwidth	180 [Hz/Px]
Flow comp.	No
Echo spacing	8.3 [ms]
-----	
RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	On

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