

# SIEMENS MAGNETOM Investigational\_Device\_7T syngo MR B17

\\USER\hmatter\Stuff\2020\_03\_09\_LC\_3DEPI\_AndSoOn\gre\_scout

TA: 0:14 PAT: Off Voxel size: 2.2x2.2x5.0 mm Rel. SNR: 1.00 SIEMENS: gre

## 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
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

## Routine

Slice group 1	
Slices	5
Dist. factor	300 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 2	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
Rotation	0.00 deg
Slice group 3	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	R >> L
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	280 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	100.0 ms
TE	4.00 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D)
Coil elements	A32

## Contrast

MTC	Off
Magn. preparation	None
Flip angle	25 deg
Fat suppr.	None
Water suppr.	None
SWI	Off
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

## Resolution

Base resolution	128
Phase resolution	100 %
Phase partial Fourier	Off

Interpolation Off

PAT mode None

Image Filter Off

Distortion Corr. On

Mode 2D

Unfiltered images Off

Prescan Normalize Off

Normalize Off

B1 filter Off

Raw filter Off

Elliptical filter Off

## Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Saturation mode	Standard
Special sat.	None
Table position	H
Table position	0 mm
Inline Composing	Off
Tim CT mode	Off

## System

V32	Off
A32	On
Positioning mode	REF
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	---
Auto Coil Select	Default
Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 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
Liver registration	Off
Std-Dev-Sag	Off
Std-Dev-Cor	Off

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Std-Dev-Tra	Off
Std-Dev-Time	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
<hr/>	
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
<hr/>	
MapIt	None
Contrasts	1

## Sequence

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Off
Bandwidth	260 Hz/Px
Flow comp.	No
<hr/>	
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On

# SIEMENS MAGNETOM Investigational\_Device\_7T syngo MR B17

\\USER\hmatter\Stuff\2020\_03\_09\_LC\_3DEPI\_AndSoOn\b1map\_658

TA: 0:57

Voxel size: 3.9x3.9x5.0 mm

Rel. SNR: 1.00

USER: b1map\_658

## 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
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

AutoAlign	Head > Brain
Auto Coil Select	Default

Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 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

## Routine

Slice group 1	
Slices	3
Dist. factor	150 %
Position	R2.0 A24.3 F16.9
Orientation	T > C-14.1
Phase enc. dir.	A >> P
Rotation	0.00 deg
FoV read	250 mm
FoV phase	100.0 %
Slice thickness	5 mm
TR	800 ms
TE 1	14 ms
TE 2	14 ms
Averages	1
Filter	None
Coil elements	A32

## Composing

### Sequence

Contrasts	2
Bandwidth	260.416667 Hz/Px
T1 Compensation	Mean T1
Mean T1	500.0 ms
Angles	1
Amplitude Weighting	Linear
Scale Bar	Enabled
Raw Data	Disabled

## Contrast

Flip angle 1	90 deg
Flip angle 2	120 deg
Flip angle 3	60 deg
Flip angle 4	135 deg
Flip angle 5	45 deg
Measurements	1

## Resolution

Base resolution	64
Phase resolution	100 %
Raw filter	Off

## Geometry

Series	Interleaved
Table position	H
Table position	0 mm
Inline Composing	Off

## System

V32	Off
A32	On
Positioning mode	REF
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine

# SIEMENS MAGNETOM Investigational\_Device\_7T syngo MR B17

\\USER\hmatter\Stuff\2020\_03\_09\_LC\_3DEPI\_AndSoOn\Head\_shim\_3D\_64slc\_dTE2.04ms

TA: 1:23 PAT: Off Voxel size: 2.0x2.0x2.0 mm Rel. SNR: 1.00 USER: CV\_shim\_452B

## 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
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

## Routine

Slab group 1	
Slabs	1
Dist. factor	20 %
Position	L2.3 A45.7 F5.1
Orientation	Transversal
Phase enc. dir.	R >> L
Rotation	89.77 deg
Auto	Off
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	96
FoV read	256 mm
FoV phase	75.0 %
Slice thickness	2.00 mm
TR	850.00 ms
TE 1	2.04 ms
TE 2	4.12 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D)
Coil elements	A32

## Contrast

Magn. preparation	None
Flip angle	15 deg
Fat suppr.	None
Restore magn.	Off
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Off

## Resolution

Base resolution	128
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off
Trajectory	Cartesian
Interpolation	Off
PAT mode	None
Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	Off

Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off
POCS	Off

## Geometry

Multi-slice mode	Sequential
Series	Ascending
Special sat.	None
Table position	H
Table position	0 mm
Inline Composing	Off

## System

V32	Off
A32	On
Positioning mode	REF
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	Head > Brain
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L2.3 A45.7 F5.1
Orientation	Transversal
Rotation	89.77 deg
A >> P	256 mm
R >> L	192 mm
F >> H	192 mm

## Physio

1st Signal/Mode	None
Segments	96
Tagging	None
Dark blood	Off
Cine	Off
Inline ventricular function	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
MIP-Time	Off
Save original images	On

## Sequence

# SIEMENS MAGNETOM Investigational\_Device\_7T syngo MR B17

Introduction	Off
Dimension	3D
Elliptical scanning	Off
Reordering	Linear
Asymmetric echo	Off
Contrasts	2
Bandwidth 1	781 Hz/Px
Bandwidth 2	781 Hz/Px
Flow comp. 1	No
Flow comp. 2	No
Readout mode	Monopolar
Optimization	None
Allowed delay	0 s
Echo spacing	6.3 ms
Sequence type	Gre
<hr/>	
Define	Shots
Shots per slice	1
RF pulse type	Fast
Gradient mode	Fast
Excitation	Slab-sel.
Flip angle mode	Constant
RF spoiling	On
Phase Enc. Rewinder	On

# SIEMENS MAGNETOM Investigational\_Device\_7T syngo MR B17

\\USER\hmatter\Stuff\2020\_03\_09\_LC\_3DEPI\_AndSoOn\hmT1\_ON\_0.7iso

TA: 13:20 PAT: Off Voxel size: 0.7x0.7x0.7 mm Rel. SNR: 1.00 USER: xpace\_tfl\_20170101

## 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
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	L2.0 A35.8 F21.6
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	224
FoV read	224 mm
FoV phase	100.0 %
Slice thickness	0.70 mm
TR	2500 ms
TE	2.18 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

## Contrast

Magn. preparation	Non-sel. IR
TI	1050 ms
Flip angle	5 deg
Fat suppr.	None
Water suppr.	None
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

## Resolution

Base resolution	320
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off
Interpolation	Off
PAT mode	None
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

## Geometry

Multi-slice mode	Single shot
Series	Interleaved
Table position	H
Table position	0 mm
Inline Composing	Off

## System

V32	Off
A32	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L2.0 A35.8 F21.6
Orientation	Sagittal
Rotation	0.00 deg
F >> H	224 mm
A >> P	224 mm
R >> L	157 mm

## Physio

1st Signal/Mode	None
Dark blood	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
MIP-Time	Off
Save original images	On

## Sequence

Introduction	Off
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Off
Bandwidth	430 Hz/Px
Flow comp.	No
Echo spacing	5.3 ms
RF pulse type	Fast
Gradient mode	Fast*
Excitation	Non-sel.
RF spoiling	On

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Disable Reco with ICE	Off
Required HD Space	11200 MByte
MP2RagePulse for IRn	On
u_bUseGrad	On
FA MP2RageIRn	540
XPACE MoCo	every Excitation
Pace Source	MPT
Position Locking	No Lock
Centre Pos Translation	0.00 mm
Deviation Translation	1.00 mm
Centre Pos Rotation	0.00 deg
Deviation Rotation	1.00 deg
Fast Wake Up Time	2000 us
Slow Wake Up Time	200000 us
Xpace Trace Level	1

# SIEMENS MAGNETOM Investigational\_Device\_7T syngo MR B17

\\USER\hmatter\Stuff\2020\_03\_09\_LC\_3DEPI\_AndSoOn\T2\_0.7iso\_ON

TA: 15:24 PAT: 3 Voxel size: 0.7x0.7x0.7 mm Rel. SNR: 1.00 USER: herbstm\_tse\_vfl\_x2pace\_20170104

## 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
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

## Routine

Slab group 1	
Slabs	1
Position	L2.0 A35.8 F21.6
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	224
FoV read	224 mm
FoV phase	100.0 %
Slice thickness	0.70 mm
TR	5500 ms
TE	133 ms
Averages	1.0
Concatenations	1
Filter	None
Coil elements	A32

## Contrast

MTC	Off
Magn. preparation	None
Fat suppr.	None
Water suppr.	None
Restore magn.	Off
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

## Resolution

Base resolution	320
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Allowed
Slice partial Fourier	6/8
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	3
Ref. lines PE	33
Accel. factor 3D	1
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Raw filter	Off
Elliptical filter	Off

## Geometry

Special sat.	None
Table position	H
Table position	0 mm
Inline Composing	Off

## System

V32	Off
A32	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L2.0 A35.8 F21.6
Orientation	Sagittal
Rotation	0.00 deg
F >> H	224 mm
A >> P	224 mm
R >> L	157 mm

## Physio

1st Signal/Mode	None
Dark blood	Off

## Inline

## Sequence

Introduction	Off
Dimension	3D
Bandwidth	434 Hz/Px
Flow comp.	No
Allowed delay	0 s
Echo spacing	4.44 ms
Adiabatic-mode	Off
Define	Echo trains
Turbo factor	131
Slice turbo factor	1
Echo trains per slice	1
Echo train duration	417
RF pulse type	Normal
Gradient mode	Fast
Excitation	Non-sel.
Flip angle mode	T2 var
Fast Wake Up Time	2000 us
Slow Wake Up Time	200000 us
Xpace Trace Level	1
CorrectionLevel	1



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Position Locking  
Pace Source

No Lock  
MPT

## SIEMENS MAGNETOM Investigational\_Device\_7T syngo MR B17

\\USER\hmatter\Stuff\2020\_03\_09\_LC\_3DEPI\_AndSoOn\kp\_mtf3d\_0.5mm\_iso\_FA35\_26

TA: 13:21 PAT: Off Voxel size: 0.5x0.5x0.5 mm Rel. SNR: 1.00 USER: kp\_mtf3d\_v1ax

## 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
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

## Routine

Slab group 1	
Slabs	1
Position	L3.6 A20.4 F33.9
Orientation	T > C26.8
Phase enc. dir.	R >> L
Rotation	90.00 deg
Slice oversampling	18.2 %
Slices per slab	88
FoV read	206 mm
FoV phase	75.0 %
Slice thickness	0.50 mm
TR	24.50 ms
TE 1	3.00 ms
TE 2	5.54 ms
TE 3	8.08 ms
TE 4	10.62 ms
TE 5	0.00 ms
TE 6	0.00 ms
TE 7	0.00 ms
TE 8	0.00 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
TE 17	0.00 ms
TE 18	0.00 ms
TE 19	0.00 ms
TE 20	0.00 ms
TE 21	0.00 ms
TE 22	0.00 ms
TE 23	0.00 ms
TE 24	0.00 ms
TE 25	0.00 ms
TE 26	0.00 ms
TE 27	0.00 ms
TE 28	0.00 ms
TE 29	0.00 ms
TE 30	0.00 ms
TE 31	0.00 ms
TE 32	0.00 ms
Concatenations	1
Filter	None
Coil elements	A32

## Contrast

MTC	On
Flip angle	26 deg
Reconstruction	Magnitude
Measurements	1

## Resolution

Base resolution	416
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off

PAT mode	None
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

## Geometry

Table position	H
Table position	0 mm
Inline Composing	Off

## System

V32	Off
A32	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	---
Auto Coil Select	Default

Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L3.6 A20.4 F33.9
Orientation	T > C26.8
Rotation	90.00 deg
A >> P	206 mm
R >> L	155 mm
F >> H	44 mm

## Composing

## Sequence

Dimension	3D
Elliptical scanning	Off
Contrasts	4
Bandwidth	445 Hz/Px
RF spoiling	On
FA Gaussian	35 [deg]

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Off-resonance Gaussian	2000 [Hz]
Duration Gaussian	4000 [us]
Flat Top MT spoiler	1000 [us]
Dur. Prew. Ramp	150 [us]
Dur. Prew.	1040 [us]
Dur. RO Ramp	130 [us]
RF excitation	Sinc (slab-sel.)
Rec: fixed duration	30 [us]
Sinc: fixed duration	294 [us]
Trajectory	Partitions in Lines
Recon	Standard
Correction Level	Per Line
Position Locking	No Lock
Fast Wake Up Time	2000 us
Slow Wake Up Time	200000 us
Xspace Trace Level	1
Pace Source	MPT

# SIEMENS MAGNETOM Investigational\_Device\_7T syngo MR B17

\\USER\hmattern\Stuff\2020\_03\_09\_LC\_3DEPI\_AndSoOn\kp\_hm\_mtflash3d\_0.5mm\_iso\_FA36\_13

TA: 8:18 PAT: Off Voxel size: 0.5x0.5x0.5 mm Rel. SNR: 1.00 USER: kp\_mtflash3d\_v1ax

## 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
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

## Routine

Slab group 1	
Slabs	1
Position	L3.6 A20.4 F33.9
Orientation	T > C26.8
Phase enc. dir.	R >> L
Rotation	90.00 deg
Slice oversampling	18.2 %
Slices per slab	88
FoV read	206 mm
FoV phase	75.0 %
Slice thickness	0.50 mm
TR	15.22 ms
TE 1	2.71 ms
TE 2	0.00 ms
TE 3	0.00 ms
TE 4	0.00 ms
TE 5	0.00 ms
TE 6	0.00 ms
TE 7	0.00 ms
TE 8	0.00 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
TE 17	0.00 ms
TE 18	0.00 ms
TE 19	0.00 ms
TE 20	0.00 ms
TE 21	0.00 ms
TE 22	0.00 ms
TE 23	0.00 ms
TE 24	0.00 ms
TE 25	0.00 ms
TE 26	0.00 ms
TE 27	0.00 ms
TE 28	0.00 ms
TE 29	0.00 ms
TE 30	0.00 ms
TE 31	0.00 ms
TE 32	0.00 ms
Concatenations	1
Filter	None
Coil elements	A32

## Contrast

MTC	On
Flip angle	13 deg
Reconstruction	Magnitude
Measurements	1

## Resolution

Base resolution	416
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off

PAT mode	None
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

## Geometry

Table position	H
Table position	0 mm
Inline Composing	Off

## System

V32	Off
A32	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L3.6 A20.4 F33.9
Orientation	T > C26.8
Rotation	90.00 deg
A >> P	206 mm
R >> L	155 mm
F >> H	44 mm

## Composing

## Sequence

Dimension	3D
Elliptical scanning	Off
Contrasts	1
Bandwidth	445 Hz/Px
RF spoiling	On
FA Gaussian	36 [deg]

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Off-resonance Gaussian	2000 [Hz]
Duration Gaussian	4000 [us]
Flat Top MT spoiler	1000 [us]
Dur. Prew. Ramp	150 [us]
Dur. Prew.	1040 [us]
Dur. RO Ramp	130 [us]
RF excitation	Sinc (slab-sel.)
Rec: fixed duration	30 [us]
Sinc: fixed duration	294 [us]
Trajectory	Partitions in Lines
Recon	Standard
Correction Level	Per Line
Position Locking	No Lock
Fast Wake Up Time	2000 us
Slow Wake Up Time	200000 us
Xspace Trace Level	1
Pace Source	MPT

## SIEMENS MAGNETOM Investigational\_Device\_7T syngo MR B17

\\USER\hmatter\Stuff\2020\_03\_09\_LC\_3DEPI\_AndSoOn\kp\_hm\_flash3d\_0.5mm\_iso\_12

TA: 5:49 PAT: Off Voxel size: 0.5x0.5x0.5 mm Rel. SNR: 1.00 USER: kp\_mtflash3d\_v1ax

## 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
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

## Routine

Slab group 1	
Slabs	1
Position	L3.6 A20.4 F33.9
Orientation	T > C26.8
Phase enc. dir.	R >> L
Rotation	90.00 deg
Slice oversampling	18.2 %
Slices per slab	88
FoV read	206 mm
FoV phase	75.0 %
Slice thickness	0.50 mm
TR	10.66 ms
TE 1	2.36 ms
TE 2	0.00 ms
TE 3	0.00 ms
TE 4	0.00 ms
TE 5	0.00 ms
TE 6	0.00 ms
TE 7	0.00 ms
TE 8	0.00 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
TE 17	0.00 ms
TE 18	0.00 ms
TE 19	0.00 ms
TE 20	0.00 ms
TE 21	0.00 ms
TE 22	0.00 ms
TE 23	0.00 ms
TE 24	0.00 ms
TE 25	0.00 ms
TE 26	0.00 ms
TE 27	0.00 ms
TE 28	0.00 ms
TE 29	0.00 ms
TE 30	0.00 ms
TE 31	0.00 ms
TE 32	0.00 ms
Concatenations	1
Filter	None
Coil elements	A32

## Contrast

MTC	Off
Flip angle	12 deg
Reconstruction	Magnitude
Measurements	1

## Resolution

Base resolution	416
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off

PAT mode	None
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

## Geometry

Table position	H
Table position	0 mm
Inline Composing	Off

## System

V32	Off
A32	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L3.6 A20.4 F33.9
Orientation	T > C26.8
Rotation	90.00 deg
A >> P	206 mm
R >> L	155 mm
F >> H	44 mm

## Composing

## Sequence

Dimension	3D
Elliptical scanning	Off
Contrasts	1
Bandwidth	546 Hz/Px
RF spoiling	On
FA Gaussian	36 [deg]

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Off-resonance Gaussian	2000 [Hz]
Duration Gaussian	4000 [us]
Flat Top MT spoiler	1000 [us]
Dur. Prew. Ramp	150 [us]
Dur. Prew.	900 [us]
Dur. RO Ramp	130 [us]
RF excitation	Sinc (slab-sel.)
Rec: fixed duration	30 [us]
Sinc: fixed duration	294 [us]
Trajectory	Partitions in Lines
Recon	Standard
Correction Level	Per Line
Position Locking	No Lock
Fast Wake Up Time	2000 us
Slow Wake Up Time	200000 us
Xspace Trace Level	1
Pace Source	MPT

## SIEMENS MAGNETOM Investigational\_Device\_7T syngo MR B17

\\USER\hmatter\Stuff\2020\_03\_09\_LC\_3DEPI\_AndSoOn\T2\_0.7iso\_ON

TA: 15:24 PAT: 3 Voxel size: 0.7x0.7x0.7 mm Rel. SNR: 1.00 USER: herbstm\_tse\_vfl\_x2pace\_20170104

## 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
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

## Routine

Slab group 1	
Slabs	1
Position	L2.0 A35.8 F21.6
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	224
FoV read	224 mm
FoV phase	100.0 %
Slice thickness	0.70 mm
TR	5500 ms
TE	133 ms
Averages	1.0
Concatenations	1
Filter	None
Coil elements	A32

## Contrast

MTC	Off
Magn. preparation	None
Fat suppr.	None
Water suppr.	None
Restore magn.	Off
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

## Resolution

Base resolution	320
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Allowed
Slice partial Fourier	6/8
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	3
Ref. lines PE	33
Accel. factor 3D	1
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Raw filter	Off
Elliptical filter	Off

## Geometry

Special sat.	None
Table position	H
Table position	0 mm
Inline Composing	Off

## System

V32	Off
A32	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L2.0 A35.8 F21.6
Orientation	Sagittal
Rotation	0.00 deg
F >> H	224 mm
A >> P	224 mm
R >> L	157 mm

## Physio

1st Signal/Mode	None
Dark blood	Off

## Inline

## Sequence

Introduction	Off
Dimension	3D
Bandwidth	434 Hz/Px
Flow comp.	No
Allowed delay	0 s
Echo spacing	4.44 ms
Adiabatic-mode	Off
Define	Echo trains
Turbo factor	131
Slice turbo factor	1
Echo trains per slice	1
Echo train duration	417
RF pulse type	Normal
Gradient mode	Fast
Excitation	Non-sel.
Flip angle mode	T2 var
Fast Wake Up Time	2000 us
Slow Wake Up Time	200000 us
Xpace Trace Level	1
CorrectionLevel	1



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	Position Locking	No Lock
	Pace Source	MPT