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\\USER

verschiedenes

Siemens

MR enterography

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\\USER\verschiedenes\Siemens\MR enterography\haste\_localizer

TA: 0:15 PM: ISO Voxel size: 1.6×1.6×6.0 mmPAT: 2 Rel. SNR: 1.00 : h

**Properties**

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	Single measurement

**Routine**

Slice group	1
Slices	7
Dist. factor	200 %
Position	L0.0 P0.0 H50.0 mm
Orientation	Transversal
Phase enc. dir.	A >> P
Slice group	2
Slices	5
Dist. factor	200 %
Position	L0.0 P30.0 H0.0 mm
Orientation	Coronal
Phase enc. dir.	R >> L
Slice group	3
Slices	3
Dist. factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	80 %
FoV read	500 mm
FoV phase	100.0 %
Slice thickness	6.0 mm
TR	1000.0 ms
TE	91 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D), Prescan Normalize, Elliptical filter
Coil elements	BO1-3;SP1-3

**Contrast - Common**

TR	1000.0 ms
TE	91 ms
MTC	Off
Magn. preparation	None
Flip angle	150 deg
Fat suppr.	None
Water suppr.	None
Restore magn.	Off

**Contrast - Dynamic**

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1

**Contrast - Dynamic**

Multiple series	Each measurement
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**Resolution - Common**

FoV read	500 mm
FoV phase	100.0 %
Slice thickness	6.0 mm
Base resolution	320
Phase resolution	70 %
Phase partial Fourier	5/8
Interpolation	Off

**Resolution - iPAT**

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Reference scan mode	Integrated

**Resolution - Filter Image**

Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	On
Unfiltered images	Off
Normalize	Off
B1 filter	Off

**Resolution - Filter Rawdata**

Raw filter	Off
Elliptical filter	On

**Geometry - Common**

Slice group	1
Slices	7
Dist. factor	200 %
Position	L0.0 P0.0 H50.0 mm
Orientation	Transversal
Phase enc. dir.	A >> P
Slice group	2
Slices	5
Dist. factor	200 %
Position	L0.0 P30.0 H0.0 mm
Orientation	Coronal
Phase enc. dir.	R >> L
Slice group	3
Slices	3
Dist. factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	500 mm
FoV phase	100.0 %
Slice thickness	6.0 mm
TR	1000.0 ms
Multi-slice mode	Single shot
Series	Descending
Concatenations	1

**Geometry - AutoAlign**

Slice group	1
-------------	---

**Geometry - AutoAlign**

Position	L0.0 P0.0 H50.0 mm
Orientation	Transversal
Phase enc. dir.	A >> P
Slice group	2
Position	L0.0 P30.0 H0.0 mm
Orientation	Coronal
Phase enc. dir.	R >> L
Slice group	3
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L0.0 P0.0 H50.0
L	0.0 mm
P	0.0 mm
H	50.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Transversal

**Geometry - Saturation**

Fat suppr.	None
Water suppr.	None
Restore magn.	Off
Special sat.	None

**Geometry - Navigator****Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table position	H
Table position	0 mm
Inline Composing	Off

**System - Miscellaneous**

Positioning mode	ISO
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	P >> A
Transversal	H >> F
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off
Coil Focus	Flat
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

B0 Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

**System - Adjust Volume**

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
A >> P	263 mm
R >> L	350 mm
F >> H	350 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	63.638636 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Physio - Signal1**

1st Signal/Mode	None
TR	1000.0 ms
Concatenations	1

**Physio - Cardiac**

Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	500 mm
FoV phase	100.0 %
Phase resolution	70 %

**Physio - PACE**

Resp. control	Breath-hold
Concatenations	1

**Inline - Common**

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

**Inline - MIP**

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

**Inline - Composing**

Inline Composing	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off

**Sequence - Part 1**

Introduction	Off
Dimension	2D
Contrasts	1
Flow comp.	No
Multi-slice mode	Single shot
Echo spacing	3.36 ms
Bandwidth	710 Hz/Px

**Sequence - Part 2**

RF pulse type	Fast
Gradient mode	Fast
Turbo factor	224

**Sequence - Assistant**

Mode	Min flip angle
Min flip angle	120 deg
Allowed delay	30 s

\\USER\verschiedenes\Siemens\MR enterography\t2\_haste\_tra\_mbh\_set-n-go

TA: 1:12 PM: ISO Voxel size: 1.1×1.1×5.0 mmPAT: 2 Rel. SNR: 1.00 : h | Substep: 1/2

### Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	On
Auto close inline display	On
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

### Routine

Slice group	1
Slices	40
Dist. factor	20 %
Position	L16.9 A1.0 H67.0 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	50 %
FoV read	350 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	1300.0 ms
TE	91 ms
Averages	1
Concatenations	4
Filter	Distortion Corr.(2D), Prescan Normalize
Coil elements	BO1,2;SP4,5

### Contrast - Common

TR	1300.0 ms
TE	91 ms
MTC	Off
Magn. preparation	None
Flip angle	180 deg
Fat suppr.	None
Water suppr.	None
Restore magn.	Off

### Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Off

### Resolution - Common

FoV read	350 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
Base resolution	320
Phase resolution	95 %
Phase partial Fourier	5/8
Interpolation	Off

### Resolution - iPAT

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	42
Reference scan mode	Integrated

### Resolution - Filter Image

Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	On
Unfiltered images	Off
Normalize	Off
B1 filter	Off

### Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

### Geometry - Common

Slice group	1
Slices	40
Dist. factor	20 %
Position	L16.9 A1.0 H67.0 mm
Orientation	Transversal
Phase enc. dir.	A >> P
FoV read	350 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	1300.0 ms
Multi-slice mode	Single shot
Series	Interl. in B.-h.
Concatenations	4

### Geometry - AutoAlign

Slice group	1
Position	L16.9 A1.0 H67.0 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L16.9 A1.0 H67.0
L	16.9 mm
A	1.0 mm
H	67.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Transversal

### Geometry - Saturation

Fat suppr.	None
Water suppr.	None
Restore magn.	Off
Special sat.	Parallel F/H
Gap	10 mm
Thickness	60 mm

### Geometry - Navigator

### Geometry - Tim Planning Suite

Set-n-Go Protocol	On
Table position	H

**Geometry - Tim Planning Suite**

Table position	67 mm
Inline Composing	On
Normalize	Off
Composing Function	Adaptive

**System - Miscellaneous**

Positioning mode	ISO
Table position	H
Table position	67 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	P >> A
Transversal	H >> F
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off
Coil Focus	Flat
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

B0 Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

**System - Adjust Volume**

Position	L16.9 A1.0 H67.0 mm
Orientation	Transversal
Rotation	0.00 deg
A >> P	350 mm
R >> L	350 mm
F >> H	239 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	63.638636 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Physio - Signal1**

1st Signal/Mode	None
TR	1300.0 ms
Concatenations	4

**Physio - Cardiac**

Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	350 mm
FoV phase	100.0 %
Phase resolution	95 %

**Physio - PACE**

Resp. control	Breath-hold
Concatenations	4

**Inline - Common**

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

**Inline - MIP**

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

**Inline - Composing**

Inline Composing	On
Composing Function	Adaptive
Normalize	Off
Series Description	t2_haste_COMP
Distortion Corr.	On
Mode	2D
Unfiltered images	Off

**Sequence - Part 1**

Introduction	On
Dimension	2D
Contrasts	1
Flow comp.	No
Multi-slice mode	Single shot
Echo spacing	3.62 ms
Bandwidth	651 Hz/Px

**Sequence - Part 2**

RF pulse type	Fast
Gradient mode	Fast
Turbo factor	304

**Sequence - Assistant**

Mode	Min flip angle
Min flip angle	150 deg
Allowed delay	30 s

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TA: 1:12 PM: ISO Voxel size: 1.1×1.1×5.0 mmPAT: 2 Rel. SNR: 1.00 : h | Substep: 2/2

**Properties**

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	On
Auto close inline display	On
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

**Routine**

Slice group	1
Slices	40
Dist. factor	20 %
Position	L16.9 A1.0 F148.4 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	50 %
FoV read	350 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	1300.0 ms
TE	91 ms
Averages	1
Concatenations	4
Filter	Distortion Corr.(2D), Prescan Normalize
Coil elements	BO2,3;SP5-7

**Contrast - Common**

TR	1300.0 ms
TE	91 ms
MTC	Off
Magn. preparation	None
Flip angle	180 deg
Fat suppr.	None
Water suppr.	None
Restore magn.	Off

**Contrast - Dynamic**

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Off

**Resolution - Common**

FoV read	350 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
Base resolution	320
Phase resolution	95 %
Phase partial Fourier	5/8
Interpolation	Off

**Resolution - iPAT**

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	42
Reference scan mode	Integrated

**Resolution - Filter Image**

Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	On
Unfiltered images	Off
Normalize	Off
B1 filter	Off

**Resolution - Filter Rawdata**

Raw filter	Off
Elliptical filter	Off

**Geometry - Common**

Slice group	1
Slices	40
Dist. factor	20 %
Position	L16.9 A1.0 F148.4 mm
Orientation	Transversal
Phase enc. dir.	A >> P
FoV read	350 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	1300.0 ms
Multi-slice mode	Single shot
Series	Interl. in B.-h.
Concatenations	4

**Geometry - AutoAlign**

Slice group	1
Position	L16.9 A1.0 F148.4 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
F	0.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Transversal

**Geometry - Saturation**

Fat suppr.	None
Water suppr.	None
Restore magn.	Off
Special sat.	Parallel F/H
Gap	10 mm
Thickness	60 mm

**Geometry - Navigator****Geometry - Tim Planning Suite**

Set-n-Go Protocol	On
Table position	F

**Geometry - Tim Planning Suite**

Table position	148 mm
Inline Composing	On
Normalize	Off
Composing Function	Adaptive

**System - Miscellaneous**

Positioning mode	ISO
Table position	F
Table position	148 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	P >> A
Transversal	H >> F
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off
Coil Focus	Flat
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

B0 Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

**System - Adjust Volume**

Position	L16.9 A1.0 F148.4 mm
Orientation	Transversal
Rotation	0.00 deg
A >> P	350 mm
R >> L	350 mm
F >> H	239 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	63.638636 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Physio - Signal1**

1st Signal/Mode	None
TR	1300.0 ms
Concatenations	4

**Physio - Cardiac**

Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	350 mm
FoV phase	100.0 %
Phase resolution	95 %

**Physio - PACE**

Resp. control	Breath-hold
Concatenations	4

**Inline - Common**

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

**Inline - MIP**

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

**Inline - Composing**

Inline Composing	On
Composing Function	Adaptive
Normalize	Off
Series Description	t2_haste_COMP
Distortion Corr.	On
Mode	2D
Unfiltered images	Off

**Sequence - Part 1**

Introduction	On
Dimension	2D
Contrasts	1
Flow comp.	No
Multi-slice mode	Single shot
Echo spacing	3.62 ms
Bandwidth	651 Hz/Px

**Sequence - Part 2**

RF pulse type	Fast
Gradient mode	Fast
Turbo factor	304

**Sequence - Assistant**

Mode	Min flip angle
Min flip angle	150 deg
Allowed delay	30 s

\\USER\verschiedenes\Siemens\MR enterography\ep2d\_diff

TA: 2:21 PM: ISO Voxel size: 1.4×1.4×6.0 mmPAT: 2 Rel. SNR: 1.00 : epse | Substep: 1/2

**Properties**

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

**Routine**

Slice group	1
Slices	30
Dist. factor	20 %
Position	L10.6 P6.1 H14.2 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	380 mm
FoV phase	68.7 %
Slice thickness	6.0 mm
TR	3200 ms
TE	53.0 ms
Concatenations	2
Filter	Raw filter, Dynamic Field Corr., Distortion Corr.(2D), Prescan Normalize
Coil elements	BO1-3;SP2-5

**Contrast - Common**

TR	3200 ms
TE	53.0 ms
MTC	Off
Magn. preparation	None
Fat suppr.	SPAIR
Fat sat. mode	Strong

**Contrast - Dynamic**

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

**Resolution - Common**

FoV read	380 mm
FoV phase	68.7 %
Slice thickness	6.0 mm
Base resolution	134
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	On

**Resolution - iPAT**

Accel. mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	36

**Resolution - iPAT**

Reference scan mode	GRE/separate
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**Resolution - Filter Image**

Distortion Corr.	On
Mode	2D
Prescan Normalize	On
Dynamic Field Corr.	On
Unfiltered images	Off

**Resolution - Filter Rawdata**

Raw filter	On
Elliptical filter	Off

**Geometry - Common**

Slice group	1
Slices	30
Dist. factor	20 %
Position	L10.6 P6.1 H14.2 mm
Orientation	Transversal
Phase enc. dir.	A >> P
FoV read	380 mm
FoV phase	68.7 %
Slice thickness	6.0 mm
TR	3200 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	2

**Geometry - AutoAlign**

Slice group	1
Position	L10.6 P6.1 H14.2 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L10.6 P6.1 H14.2
L	10.6 mm
P	6.1 mm
H	14.2 mm
Initial Rotation	0.00 deg
Initial Orientation	Transversal

**Geometry - Saturation**

Fat suppr.	SPAIR
Fat sat. mode	Strong
Special sat.	None

**Geometry - Navigator**

Navigator	1
Position	R89.6 P0.0 H180.4 mm
Orientation	Coronal
Rotation	0.00 deg
FoV phase	32 mm
FoV read	96 mm
Thickness	10.0 mm

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	On
Table position	H
Table position	14 mm
Inline Composing	On



**Geometry - Tim Planning Suite**

Normalize	Off
Composing Function	Diffusion

**System - Miscellaneous**

Positioning mode	ISO
Table position	H
Table position	14 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	P >> A
Transversal	F >> H
Coil Combine Mode	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

B0 Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

**System - Adjust Volume**

Position	L10.6 P6.1 H14.2 mm
Orientation	Transversal
Rotation	0.00 deg
A >> P	261 mm
R >> L	380 mm
F >> H	215 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	63.638636 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	3.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Physio - Signal1**

1st Signal/Mode	None
TR	3200 ms
Concatenations	2

**Physio - PACE**

Resp. control	Trigger
Scout mode	Off
Scout TR	150 ms
Accept window ±	2.0 mm
Position accept window	Automatic
Select acquisition window	Automatic
Acquisition window	35 %
Trigger pulse	1
Scout type	Liver dome scout
Concatenations	2
Store profile images	Off

**Diff - Neuro**

Diffusion mode	4-Scan Trace
Diff. directions	4

**Diff - Neuro**

Diffusion Scheme	Monopolar
Diff. weightings	2
b-value 1	50 s/mm <sup>2</sup>
b-value 2	1000 s/mm <sup>2</sup>
b-value 1	1
b-value 2	2
Diff. weighted images	Off
Trace weighted images	On
ADC maps	On
FA maps	Off
Mosaic	Off
Tensor	Off
Noise level	10

**Diff - Body**

Diffusion mode	4-Scan Trace
Diff. directions	4
Diffusion Scheme	Monopolar
Diff. weightings	2
b-value 1	50 s/mm <sup>2</sup>
b-value 2	1000 s/mm <sup>2</sup>
b-value 1	1
b-value 2	2
Diff. weighted images	Off
Trace weighted images	On
ADC maps	On
Exponential ADC Maps	Off
FA maps	Off
Invert Gray Scale	Off
Calculated Image	Off
b-Value >=	50 s/mm <sup>2</sup>
Noise level	10

**Diff - Composing**

Inline Composing	On
Composing Function	Diffusion
Normalize	Off
Series Description	
Distortion Corr.	On
Mode	2D

**Sequence - Part 1**

Introduction	Off
Optimization	Min. TE
Multi-slice mode	Interleaved
Free echo spacing	Off
Echo spacing	0.51 ms
Bandwidth	2488 Hz/Px

**Sequence - Part 2**

EPI factor	92
RF pulse type	Normal
Gradient mode	Fast

\\USER\verschiedenes\Siemens\MR enterography\ep2d\_diff

TA: 2:09 PM: ISO Voxel size: 1.4×1.4×6.0 mmPAT: 2 Rel. SNR: 1.00 : epse | Substep: 2/2

**Properties**

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

**Routine**

Slice group	1
Slices	30
Dist. factor	20 %
Position	L10.6 P6.1 F180.0 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	380 mm
FoV phase	68.7 %
Slice thickness	6.0 mm
TR	6500 ms
TE	53.0 ms
Concatenations	1
Filter	Raw filter, Dynamic Field Corr., Distortion Corr.(2D), Prescan Normalize
Coil elements	BO3;SP5-7

**Contrast - Common**

TR	6500 ms
TE	53.0 ms
MTC	Off
Magn. preparation	None
Fat suppr.	SPAIR
Fat sat. mode	Strong

**Contrast - Dynamic**

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

**Resolution - Common**

FoV read	380 mm
FoV phase	68.7 %
Slice thickness	6.0 mm
Base resolution	134
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	On

**Resolution - iPAT**

Accel. mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	36

**Resolution - iPAT**

Reference scan mode	GRE/separate
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**Resolution - Filter Image**

Distortion Corr.	On
Mode	2D
Prescan Normalize	On
Dynamic Field Corr.	On
Unfiltered images	Off

**Resolution - Filter Rawdata**

Raw filter	On
Elliptical filter	Off

**Geometry - Common**

Slice group	1
Slices	30
Dist. factor	20 %
Position	L10.6 P6.1 F180.0 mm
Orientation	Transversal
Phase enc. dir.	A >> P
FoV read	380 mm
FoV phase	68.7 %
Slice thickness	6.0 mm
TR	6500 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

**Geometry - AutoAlign**

Slice group	1
Position	L10.6 P6.1 F180.0 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L4.8 P6.1 H64.2
L	4.8 mm
P	6.1 mm
F	64.2 mm
Initial Rotation	0.00 deg
Initial Orientation	Transversal

**Geometry - Saturation**

Fat suppr.	SPAIR
Fat sat. mode	Strong
Special sat.	None

**Geometry - Navigator****Geometry - Tim Planning Suite**

Set-n-Go Protocol	On
Table position	F
Table position	180 mm
Inline Composing	On
Normalize	Off
Composing Function	Diffusion

**System - Miscellaneous**

Positioning mode	ISO
Table position	F

**System - Miscellaneous**

Table position	180 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	P >> A
Transversal	H >> F
Coil Combine Mode	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

B0 Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

**System - Adjust Volume**

Position	L10.6 P6.1 F180.0 mm
Orientation	Transversal
Rotation	0.00 deg
A >> P	261 mm
R >> L	380 mm
F >> H	215 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	63.638636 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	3.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Physio - Signal1**

1st Signal/Mode	None
TR	6500 ms
Concatenations	1

**Physio - PACE**

Resp. control	Off
Concatenations	1

**Diff - Neuro**

Diffusion mode	4-Scan Trace
Diff. directions	4
Diffusion Scheme	Monopolar
Diff. weightings	2
b-value 1	50 s/mm <sup>2</sup>
b-value 2	1000 s/mm <sup>2</sup>
b-value 1	1
b-value 2	3
Diff. weighted images	Off
Trace weighted images	On
ADC maps	On
FA maps	Off
Mosaic	Off
Tensor	Off
Noise level	10

**Diff - Body**

Diffusion mode	4-Scan Trace
Diff. directions	4
Diffusion Scheme	Monopolar
Diff. weightings	2
b-value 1	50 s/mm <sup>2</sup>
b-value 2	1000 s/mm <sup>2</sup>
b-value 1	1
b-value 2	3
Diff. weighted images	Off
Trace weighted images	On
ADC maps	On
Exponential ADC Maps	Off
FA maps	Off
Invert Gray Scale	Off
Calculated Image	Off
b-Value >=	50 s/mm <sup>2</sup>
Noise level	10

**Diff - Composing**

Inline Composing	On
Composing Function	Diffusion
Normalize	Off
Series Description	
Distortion Corr.	On
Mode	2D

**Sequence - Part 1**

Introduction	Off
Optimization	Min. TE
Multi-slice mode	Interleaved
Free echo spacing	Off
Echo spacing	0.51 ms
Bandwidth	2488 Hz/Px

**Sequence - Part 2**

EPI factor	92
RF pulse type	Normal
Gradient mode	Fast

\\USER\verschiedenes\Siemens\MR enterography\t2\_haste\_cor\_mbh

TA: 0:58 PM: ISO Voxel size: 1.1×1.1×4.0 mmPAT: 2 Rel. SNR: 1.00 : h

**Properties**

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

**Routine**

Slice group	1
Slices	35
Dist. factor	20 %
Position	L0.0 A16.9 H14.5 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	42 %
FoV read	480 mm
FoV phase	100.0 %
Slice thickness	4.0 mm
TR	1200.0 ms
TE	92 ms
Averages	1
Concatenations	3
Filter	Distortion Corr.(2D), Prescan Normalize
Coil elements	BO1-3;SP2-5

**Contrast - Common**

TR	1200.0 ms
TE	92 ms
MTC	Off
Magn. preparation	None
Flip angle	176 deg
Fat suppr.	None
Water suppr.	None
Restore magn.	Off

**Contrast - Dynamic**

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Off

**Resolution - Common**

FoV read	480 mm
FoV phase	100.0 %
Slice thickness	4.0 mm
Base resolution	448
Phase resolution	80 %
Phase partial Fourier	4/8
Interpolation	Off

**Resolution - iPAT**

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	42
Reference scan mode	Integrated

**Resolution - Filter Image**

Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	On
Unfiltered images	Off
Normalize	Off
B1 filter	Off

**Resolution - Filter Rawdata**

Raw filter	Off
Elliptical filter	Off

**Geometry - Common**

Slice group	1
Slices	35
Dist. factor	20 %
Position	L0.0 A16.9 H14.5 mm
Orientation	Coronal
Phase enc. dir.	R >> L
FoV read	480 mm
FoV phase	100.0 %
Slice thickness	4.0 mm
TR	1200.0 ms
Multi-slice mode	Single shot
Series	Interl. in B.-h.
Concatenations	3

**Geometry - AutoAlign**

Slice group	1
Position	L0.0 A16.9 H14.5 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	---
Initial Position	L0.0 A16.9 H14.5
L	0.0 mm
A	16.9 mm
H	14.5 mm
Initial Rotation	0.00 deg
Initial Orientation	Coronal

**Geometry - Saturation**

Fat suppr.	None
Water suppr.	None
Restore magn.	Off
Special sat.	None

**Geometry - Navigator****Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table position	H
Table position	15 mm
Inline Composing	Off

**System - Miscellaneous**

Positioning mode	ISO
Table position	H
Table position	15 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	P >> A
Transversal	H >> F
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off
Coil Focus	Flat
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

B0 Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

**System - Adjust Volume**

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
A >> P	263 mm
R >> L	350 mm
F >> H	350 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	63.638636 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Physio - Signal1**

1st Signal/Mode	None
TR	1200.0 ms
Concatenations	3

**Physio - Cardiac**

Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	480 mm
FoV phase	100.0 %
Phase resolution	80 %

**Physio - PACE**

Resp. control	Breath-hold
Concatenations	3

**Inline - Common**

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

**Inline - MIP**

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

**Inline - Composing**

Inline Composing	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off

**Sequence - Part 1**

Introduction	Off
Dimension	2D
Contrasts	1
Flow comp.	No
Multi-slice mode	Single shot
Echo spacing	3.66 ms
Bandwidth	744 Hz/Px

**Sequence - Part 2**

RF pulse type	Fast
Gradient mode	Fast
Turbo factor	358

**Sequence - Assistant**

Mode	Min flip angle
Min flip angle	150 deg
Allowed delay	30 s

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TA: 0:39 PM: ISO Voxel size: 0.9×0.9×3.0 mmPAT: 5 Rel. SNR: 1.00 : tfi

**Properties**

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	On
Load images to graphic segments	On
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

**Routine**

Slice group	1
Slices	65
Dist. factor	0 %
Position	L0.0 A10.9 H14.5 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	30 %
FoV read	480 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
TR	448.62 ms
TE	2.3 ms
Averages	1
Concatenations	2
Filter	Distortion Corr.(2D), Prescan Normalize, Image Filter
Coil elements	BO1-3;SP2-5

**Contrast - Common**

TR	448.62 ms
TE	2.3 ms
Magn. preparation	None
Flip angle	60 deg
Fat suppr.	None
Wrap-up Magn.	Restore

**Contrast - Dynamic**

Averages	1
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Off

**Resolution - Common**

FoV read	480 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
Base resolution	256
Phase resolution	99 %
Phase partial Fourier	Off
Trajectory	Cartesian
Interpolation	On

**Resolution - iPAT**

PAT mode	GRAPPA
Accel. factor PE	5
Ref. lines PE	25
Reference scan mode	Integrated

**Resolution - Filter Image**

Image Filter	On
Intensity	Sharp
Edge Enhancement	3
Smoothing	3
Unfiltered images	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	On
Unfiltered images	Off
Normalize	Off
B1 filter	Off

**Resolution - Filter Rawdata**

Raw filter	Off
Elliptical filter	Off
POCS	Off

**Geometry - Common**

Slice group	1
Slices	65
Dist. factor	0 %
Position	L0.0 A10.9 H14.5 mm
Orientation	Coronal
Phase enc. dir.	R >> L
FoV read	480 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
TR	448.62 ms
Multi-slice mode	Sequential
Series	Descending
Concatenations	2

**Geometry - AutoAlign**

Slice group	1
Position	L0.0 A10.9 H14.5 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	---
Initial Position	L0.0 A10.9 H14.5
L	0.0 mm
A	10.9 mm
H	14.5 mm
Initial Rotation	0.00 deg
Initial Orientation	Coronal

**Geometry - Saturation**

Fat suppr.	None
Wrap-up Magn.	Restore
Special sat.	None

**Geometry - Navigator**

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table position	H
Table position	15 mm
Inline Composing	Off

**System - Miscellaneous**

Positioning mode	ISO
Table position	H
Table position	15 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	P >> A
Transversal	H >> F
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off
Coil Focus	Flat
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

B0 Shim mode	Cardiac
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

**System - Adjust Volume**

Position	L0.0 A10.9 H14.5 mm
Orientation	Coronal
Rotation	0.00 deg
R >> L	480 mm
F >> H	480 mm
A >> P	195 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	63.638636 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Physio - Signal1**

1st Signal/Mode	None
TR	448.62 ms
Concatenations	2
Segments	86

**Physio - Cardiac**

Tagging	None
Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	480 mm
FoV phase	100.0 %
Phase resolution	99 %
Cine	Off
Trajectory	Cartesian
Dummy heartbeats	0

**Physio - PACE**

Resp. control	Breath-hold
Concatenations	2

**Inline - Common**

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

**Inline - Cardiac**

Inline Evaluation	Off
Magn. preparation	None
Contrasts	1
TE	2.3 ms
TR	448.62 ms
Save original images	On

**Inline - MIP**

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

**Inline - Composing**

Inline Composing	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off

**Sequence - Part 1**

Introduction	Off
Dimension	2D
Reordering	Linear
Asymmetric echo	Off
Contrasts	1
Optimization	Min. TE TR
Multi-slice mode	Sequential
Echo spacing	4.6 ms
Sequence type	Trufi
Bandwidth	514 Hz/Px

**Sequence - Part 2**

Define	Shots
Shots per slice	1
Segments	86
Trufi delta freq.	0 Hz
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
Flip angle mode	Constant
Cine	Off

**Sequence - Assistant**

Mode	Min flip angle
Min flip angle	35 deg
Allowed delay	0 s

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TA: 1:03 PM: ISO Voxel size: 1.5×1.5×4.0 mmPAT: 2 Rel. SNR: 1.00 : hir

**Properties**

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	On
Auto close inline display	On
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

**Routine**

Slice group	1
Slices	39
Dist. factor	20 %
Position	L8.5 A14.5 F15.7 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	50 %
FoV read	480 mm
FoV phase	100.0 %
Slice thickness	4.0 mm
TR	1300.0 ms
TE	87 ms
Averages	1
Concatenations	3
Filter	Distortion Corr.(2D), Prescan Normalize
Coil elements	BO1-3;SP4-8

**Contrast - Common**

TR	1300.0 ms
TE	87 ms
MTC	Off
Magn. preparation	Slice-sel. IR
T1	180 ms
Flip angle	160 deg
Fat suppr.	None
Water suppr.	None
Restore magn.	Off

**Contrast - Dynamic**

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Off

**Resolution - Common**

FoV read	480 mm
FoV phase	100.0 %
Slice thickness	4.0 mm
Base resolution	320
Phase resolution	90 %
Phase partial Fourier	4/8
Interpolation	Off

**Resolution - iPAT**

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	42
Reference scan mode	Integrated

**Resolution - Filter Image**

Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	On
Unfiltered images	Off
Normalize	Off
B1 filter	Off

**Resolution - Filter Rawdata**

Raw filter	Off
Elliptical filter	Off

**Geometry - Common**

Slice group	1
Slices	39
Dist. factor	20 %
Position	L8.5 A14.5 F15.7 mm
Orientation	Coronal
Phase enc. dir.	R >> L
FoV read	480 mm
FoV phase	100.0 %
Slice thickness	4.0 mm
TR	1300.0 ms
Multi-slice mode	Single shot
Series	Interl. in B.-h.
Concatenations	3

**Geometry - AutoAlign**

Slice group	1
Position	L8.5 A14.5 F15.7 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	---
Initial Position	L8.5 A14.5 F15.7
L	8.5 mm
A	14.5 mm
F	15.7 mm
Initial Rotation	0.00 deg
Initial Orientation	Coronal

**Geometry - Saturation**

Fat suppr.	None
Water suppr.	None
Restore magn.	Off
Special sat.	None

**Geometry - Navigator****Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table position	F
Table position	16 mm
Inline Composing	Off



**System - Miscellaneous**

Positioning mode	ISO
Table position	F
Table position	16 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	P >> A
Transversal	H >> F
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off
Coil Focus	Flat
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

B0 Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

**System - Adjust Volume**

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
A >> P	263 mm
R >> L	350 mm
F >> H	350 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	63.638636 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Physio - Signal1**

1st Signal/Mode	None
TR	1300.0 ms
Concatenations	3

**Physio - Cardiac**

Magn. preparation	Slice-sel. IR
TI	180 ms
Fat suppr.	None
Dark blood	Off
FoV read	480 mm
FoV phase	100.0 %
Phase resolution	90 %

**Physio - PACE**

Resp. control	Breath-hold
Concatenations	3

**Inline - Common**

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

**Inline - MIP**

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

**Inline - Composing**

Inline Composing	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off

**Sequence - Part 1**

Introduction	Off
Dimension	2D
Contrasts	1
Flow comp.	No
Multi-slice mode	Single shot
Echo spacing	4.16 ms
Bandwidth	539 Hz/Px

**Sequence - Part 2**

RF pulse type	Fast
Gradient mode	Fast
Turbo factor	288

**Sequence - Assistant**

Mode	Min flip angle
Min flip angle	150 deg
Allowed delay	30 s

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TA: 0:18 PM: ISO Voxel size: 1.4×1.4×3.0 mmPAT: 5 Rel. SNR: 1.00 : fl

**Properties**

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	On
Load images to graphic segments	On
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	On
Start measurements	Single measurement

**Routine**

Slab group	1
Slabs	1
Dist. factor	20 %
Position	L0.0 A10.9 H14.5 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	30 %
Slice oversampling	22.2 %
Slices per slab	72
FoV read	480 mm
FoV phase	78.4 %
Slice thickness	3.0 mm
TR	6.68 ms
TE 1	2.39 ms
TE 2	4.77 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D), Prescan Normalize
Coil elements	BO1-3;SP2-5

**Contrast - Common**

TR	6.68 ms
TE 1	2.39 ms
TE 2	4.77 ms
Flip angle	10.0 deg
Fat suppr.	None
Water suppr.	None
Dixon	On
Dixon evaluation	Off

**Contrast - Dynamic**

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

**Resolution - Common**

FoV read	480 mm
FoV phase	78.4 %
Slice thickness	3.0 mm
Base resolution	352
Phase resolution	90 %
Slice resolution	59 %

**Resolution - Common**

Phase partial Fourier	7/8
Slice partial Fourier	6/8
Trajectory	Cartesian
View sharing	Off
Interpolation	Off

**Resolution - iPAT**

PAT mode	CAIPIRINHA
Accel. factor PE	1
Ref. lines PE	24
Accel. factor 3D	5
Ref. lines 3D	25
Reordering Shift 3D	2
Reference scan mode	GRE/separate
CAIPIRINHA mode	Body Cor
Total PAT factor	5

**Resolution - Filter Image**

Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	On
Unfiltered images	Off
Normalize	Off
B1 filter	Off

**Resolution - Filter Rawdata**

Raw filter	Off
Elliptical filter	Off
POCS	Off

**Geometry - Common**

Slab group	1
Slabs	1
Dist. factor	20 %
Position	L0.0 A10.9 H14.5 mm
Orientation	Coronal
Phase enc. dir.	R >> L
Slice oversampling	22.2 %
Slices per slab	72
FoV read	480 mm
FoV phase	78.4 %
Slice thickness	3.0 mm
TR	6.68 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	1

**Geometry - AutoAlign**

Slab group	1
Position	L0.0 A10.9 H14.5 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	---
Initial Position	L0.0 A10.9 H14.5
L	0.0 mm
A	10.9 mm
H	14.5 mm
Initial Rotation	0.00 deg

**Geometry - AutoAlign**

Initial Orientation	Coronal
---------------------	---------

**Geometry - Saturation**

Fat suppr.	None
Water suppr.	None
Dixon	On
Dixon evaluation	Off
Special sat.	None

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table position	H
Table position	15 mm
Inline Composing	Off

**System - Miscellaneous**

Positioning mode	ISO
Table position	H
Table position	15 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	P >> A
Transversal	H >> F
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off
Coil Focus	Flat
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

B0 Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

**System - Adjust Volume**

Position	L0.0 A10.9 H14.5 mm
Orientation	Coronal
Rotation	0.00 deg
R >> L	377 mm
F >> H	480 mm
A >> P	216 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	63.638636 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Physio - PACE**

Resp. control	Breath-hold
Concatenations	1

**Inline - Common**

View sharing	Off
Flip angle	10.0 deg
Measurements	1

**Inline - Common**

Burn time-to-center	Off
Temporal interpolation	1
3D centric reordering	Off
Time to center	7.5 s

**Inline - Inline**

Subtract	Off
Measurements	1
StdDev	Off
Liver registration	Off
Save original images	On

**Inline - MIP**

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

**Inline - Soft Tissue**

Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
Measurements	1

**Inline - Composing**

Inline Composing	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off

**Inline - MapIt**

Save original images	On
MapIt	None
Flip angle	10.0 deg
Measurements	1
Contrasts	2
TR	6.68 ms
TE 1	2.39 ms
TE 2	4.77 ms

**Sequence - Part 1**

Introduction	Off
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Off
Contrasts	2
Readout mode	Bipolar
Optimization	Opp/In
Multi-slice mode	Sequential
Bandwidth 1	570 Hz/Px
Bandwidth 2	570 Hz/Px

**Sequence - Part 2**

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

**Sequence - Assistant**

Mode	Off
------	-----

\\USER\verschiedenes\Siemens\MR enterography\t1\_vibe\_dixon\_cor\_45''post contrast

TA: 0:18 PM: ISO Voxel size: 1.4×1.4×3.0 mmPAT: 5 Rel. SNR: 1.00 : fl

### Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	On
Load images to graphic segments	On
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

### Routine

Slab group	1
Slabs	1
Dist. factor	20 %
Position	L0.0 A10.9 H14.5 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	30 %
Slice oversampling	22.2 %
Slices per slab	72
FoV read	480 mm
FoV phase	78.4 %
Slice thickness	3.0 mm
TR	6.68 ms
TE 1	2.39 ms
TE 2	4.77 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D), Prescan Normalize
Coil elements	BO1-3;SP2-5

### Contrast - Common

TR	6.68 ms
TE 1	2.39 ms
TE 2	4.77 ms
Flip angle	10.0 deg
Fat suppr.	None
Water suppr.	None
Dixon	On
Dixon evaluation	Off

### Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

### Resolution - Common

FoV read	480 mm
FoV phase	78.4 %
Slice thickness	3.0 mm
Base resolution	352
Phase resolution	90 %
Slice resolution	59 %

### Resolution - Common

Phase partial Fourier	7/8
Slice partial Fourier	6/8
Trajectory	Cartesian
View sharing	Off
Interpolation	Off

### Resolution - iPAT

PAT mode	CAIPIRINHA
Accel. factor PE	1
Ref. lines PE	24
Accel. factor 3D	5
Ref. lines 3D	25
Reordering Shift 3D	2
Reference scan mode	GRE/separate
CAIPIRINHA mode	Body Cor
Total PAT factor	5

### Resolution - Filter Image

Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	On
Unfiltered images	Off
Normalize	Off
B1 filter	Off

### Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off
POCS	Off

### Geometry - Common

Slab group	1
Slabs	1
Dist. factor	20 %
Position	L0.0 A10.9 H14.5 mm
Orientation	Coronal
Phase enc. dir.	R >> L
Slice oversampling	22.2 %
Slices per slab	72
FoV read	480 mm
FoV phase	78.4 %
Slice thickness	3.0 mm
TR	6.68 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	1

### Geometry - AutoAlign

Slab group	1
Position	L0.0 A10.9 H14.5 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	---
Initial Position	L0.0 A10.9 H14.5
L	0.0 mm
A	10.9 mm
H	14.5 mm
Initial Rotation	0.00 deg

**Geometry - AutoAlign**

Initial Orientation	Coronal
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**Geometry - Saturation**

Fat suppr.	None
Water suppr.	None
Dixon	On
Dixon evaluation	Off
Special sat.	None

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table position	H
Table position	15 mm
Inline Composing	Off

**System - Miscellaneous**

Positioning mode	ISO
Table position	H
Table position	15 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	P >> A
Transversal	H >> F
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off
Coil Focus	Flat
AutoAlign	---
Coil Select Mode	Off - All

**System - Adjustments**

B0 Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

**System - Adjust Volume**

Position	L0.0 A10.9 H14.5 mm
Orientation	Coronal
Rotation	0.00 deg
R >> L	377 mm
F >> H	480 mm
A >> P	216 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	63.638636 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Physio - PACE**

Resp. control	Breath-hold
Concatenations	1

**Inline - Common**

View sharing	Off
Flip angle	10.0 deg
Measurements	1

**Inline - Common**

Burn time-to-center	Off
Temporal interpolation	1
3D centric reordering	Off
Time to center	7.5 s

**Inline - Inline**

Subtract	Off
Measurements	1
StdDev	Off
Liver registration	Off
Save original images	On

**Inline - MIP**

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

**Inline - Soft Tissue**

Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
Measurements	1

**Inline - Composing**

Inline Composing	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off

**Inline - MapIt**

Save original images	On
MapIt	None
Flip angle	10.0 deg
Measurements	1
Contrasts	2
TR	6.68 ms
TE 1	2.39 ms
TE 2	4.77 ms

**Sequence - Part 1**

Introduction	Off
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Off
Contrasts	2
Readout mode	Bipolar
Optimization	Opp/In
Multi-slice mode	Sequential
Bandwidth 1	570 Hz/Px
Bandwidth 2	570 Hz/Px

**Sequence - Part 2**

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

**Sequence - Assistant**

Mode	Off
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\\USER\verschiedenes\Siemens\MR enterography\t1\_vibe\_dixon\_cor\_70''post contrast

TA: 0:18 PM: ISO Voxel size: 1.4×1.4×3.0 mmPAT: 5 Rel. SNR: 1.00 : fl

**Properties**

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	On
Load images to graphic segments	On
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

**Routine**

Slab group	1
Slabs	1
Dist. factor	20 %
Position	L0.0 A10.9 H14.5 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	30 %
Slice oversampling	22.2 %
Slices per slab	72
FoV read	480 mm
FoV phase	78.4 %
Slice thickness	3.0 mm
TR	6.68 ms
TE 1	2.39 ms
TE 2	4.77 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D), Prescan Normalize
Coil elements	BO1-3;SP2-5

**Contrast - Common**

TR	6.68 ms
TE 1	2.39 ms
TE 2	4.77 ms
Flip angle	10.0 deg
Fat suppr.	None
Water suppr.	None
Dixon	On
Dixon evaluation	Off

**Contrast - Dynamic**

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

**Resolution - Common**

FoV read	480 mm
FoV phase	78.4 %
Slice thickness	3.0 mm
Base resolution	352
Phase resolution	90 %
Slice resolution	59 %

**Resolution - Common**

Phase partial Fourier	7/8
Slice partial Fourier	6/8
Trajectory	Cartesian
View sharing	Off
Interpolation	Off

**Resolution - iPAT**

PAT mode	CAIPIRINHA
Accel. factor PE	1
Ref. lines PE	24
Accel. factor 3D	5
Ref. lines 3D	25
Reordering Shift 3D	2
Reference scan mode	GRE/separate
CAIPIRINHA mode	Body Cor
Total PAT factor	5

**Resolution - Filter Image**

Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	On
Unfiltered images	Off
Normalize	Off
B1 filter	Off

**Resolution - Filter Rawdata**

Raw filter	Off
Elliptical filter	Off
POCS	Off

**Geometry - Common**

Slab group	1
Slabs	1
Dist. factor	20 %
Position	L0.0 A10.9 H14.5 mm
Orientation	Coronal
Phase enc. dir.	R >> L
Slice oversampling	22.2 %
Slices per slab	72
FoV read	480 mm
FoV phase	78.4 %
Slice thickness	3.0 mm
TR	6.68 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	1

**Geometry - AutoAlign**

Slab group	1
Position	L0.0 A10.9 H14.5 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	---
Initial Position	L0.0 A10.9 H14.5
L	0.0 mm
A	10.9 mm
H	14.5 mm
Initial Rotation	0.00 deg



**Geometry - AutoAlign**

Initial Orientation	Coronal
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**Geometry - Saturation**

Fat suppr.	None
Water suppr.	None
Dixon	On
Dixon evaluation	Off
Special sat.	None

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table position	H
Table position	15 mm
Inline Composing	Off

**System - Miscellaneous**

Positioning mode	ISO
Table position	H
Table position	15 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	P >> A
Transversal	H >> F
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off
Coil Focus	Flat
AutoAlign	---
Coil Select Mode	Off - All

**System - Adjustments**

B0 Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

**System - Adjust Volume**

Position	L0.0 A10.9 H14.5 mm
Orientation	Coronal
Rotation	0.00 deg
R >> L	377 mm
F >> H	480 mm
A >> P	216 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	63.638636 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Physio - PACE**

Resp. control	Breath-hold
Concatenations	1

**Inline - Common**

View sharing	Off
Flip angle	10.0 deg
Measurements	1

**Inline - Common**

Burn time-to-center	Off
Temporal interpolation	1
3D centric reordering	Off
Time to center	7.5 s

**Inline - Inline**

Subtract	Off
Measurements	1
StdDev	Off
Liver registration	Off
Save original images	On

**Inline - MIP**

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

**Inline - Soft Tissue**

Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
Measurements	1

**Inline - Composing**

Inline Composing	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off

**Inline - MapIt**

Save original images	On
MapIt	None
Flip angle	10.0 deg
Measurements	1
Contrasts	2
TR	6.68 ms
TE 1	2.39 ms
TE 2	4.77 ms

**Sequence - Part 1**

Introduction	Off
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Off
Contrasts	2
Readout mode	Bipolar
Optimization	Opp/In
Multi-slice mode	Sequential
Bandwidth 1	570 Hz/Px
Bandwidth 2	570 Hz/Px

**Sequence - Part 2**

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

**Sequence - Assistant**

Mode	Off
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\\USER\verschiedenes\Siemens\MR enterography\t1\_vibe\_dixon\_tra\_post contrast

TA: 0:18 PM: ISO Voxel size: 1.1×1.1×3.0 mmPAT: 4 Rel. SNR: 1.00 : fl | Substep: 1/2

**Properties**

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	On
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

**Routine**

Slab group	1
Slabs	1
Dist. factor	20 %
Position	R9.7 P0.0 H99.3 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	30 %
Slice oversampling	30.0 %
Slices per slab	80
FoV read	350 mm
FoV phase	75.0 %
Slice thickness	3.0 mm
TR	6.71 ms
TE 1	2.39 ms
TE 2	4.77 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D), Prescan Normalize
Coil elements	BO1,2;SP2-4

**Contrast - Common**

TR	6.71 ms
TE 1	2.39 ms
TE 2	4.77 ms
Flip angle	10.0 deg
Fat suppr.	None
Water suppr.	None
Dixon	On
Dixon evaluation	Off

**Contrast - Dynamic**

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Off

**Resolution - Common**

FoV read	350 mm
FoV phase	75.0 %
Slice thickness	3.0 mm
Base resolution	320
Phase resolution	75 %
Slice resolution	50 %

**Resolution - Common**

Phase partial Fourier	Off
Slice partial Fourier	6/8
Trajectory	Cartesian
View sharing	Off
Interpolation	Off

**Resolution - iPAT**

PAT mode	CAIPIRINHA
Accel. factor PE	2
Ref. lines PE	24
Accel. factor 3D	2
Ref. lines 3D	24
Reordering Shift 3D	1
Reference scan mode	GRE/separate
CAIPIRINHA mode	Body Tra
Total PAT factor	4

**Resolution - Filter Image**

Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	On
Unfiltered images	Off
Normalize	Off
B1 filter	Off

**Resolution - Filter Rawdata**

Raw filter	Off
Elliptical filter	Off
POCS	Off

**Geometry - Common**

Slab group	1
Slabs	1
Dist. factor	20 %
Position	R9.7 P0.0 H99.3 mm
Orientation	Transversal
Phase enc. dir.	A >> P
Slice oversampling	30.0 %
Slices per slab	80
FoV read	350 mm
FoV phase	75.0 %
Slice thickness	3.0 mm
TR	6.71 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	1

**Geometry - AutoAlign**

Slab group	1
Position	R9.7 P0.0 H99.3 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	R9.7 P0.0 H99.3
R	9.7 mm
P	0.0 mm
H	99.3 mm
Initial Rotation	0.00 deg

**Geometry - AutoAlign**

Initial Orientation	Transversal
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**Geometry - Saturation**

Fat suppr.	None
Water suppr.	None
Dixon	On
Dixon evaluation	Off
Special sat.	None

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	On
Table position	H
Table position	99 mm
Inline Composing	On
Normalize	Off
Composing Function	Adaptive

**System - Miscellaneous**

Positioning mode	ISO
Table position	H
Table position	99 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	P >> A
Transversal	H >> F
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off
Coil Focus	Flat
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

B0 Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

**System - Adjust Volume**

Position	R9.7 P0.0 H99.3 mm
Orientation	Transversal
Rotation	0.00 deg
A >> P	263 mm
R >> L	350 mm
F >> H	240 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	63.638636 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Physio - PACE**

Resp. control	Breath-hold
Concatenations	1

**Inline - Common**

View sharing	Off
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**Inline - Common**

Flip angle	10.0 deg
Measurements	1
Burn time-to-center	Off
Temporal interpolation	1
3D centric reordering	Off
Time to center	8.1 s

**Inline - Inline**

Subtract	Off
Measurements	1
StdDev	Off
Liver registration	Off
Save original images	On

**Inline - MIP**

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

**Inline - Soft Tissue**

Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
Measurements	1

**Inline - Composing**

Inline Composing	On
Composing Function	Adaptive
Normalize	Off
Series Description	vibe_dixon_tra_KM_COMP
Distortion Corr.	On
Mode	2D
Unfiltered images	Off

**Inline - MapIt**

Save original images	On
MapIt	None
Flip angle	10.0 deg
Measurements	1
Contrasts	2
TR	6.71 ms
TE 1	2.39 ms
TE 2	4.77 ms

**Sequence - Part 1**

Introduction	Off
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Off
Contrasts	2
Readout mode	Bipolar
Optimization	Opp/In
Multi-slice mode	Sequential
Bandwidth 1	470 Hz/Px
Bandwidth 2	470 Hz/Px

**Sequence - Part 2**

RF pulse type	Fast
Gradient mode	Fast

**Sequence - Part 2**

Excitation	Slab-sel.
RF spoiling	On
Incr. Gradient spoiling	Off

**Sequence - Assistant**

Mode	Off
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\\USER\verschiedenes\Siemens\MR enterography\t1\_vibe\_dixon\_tra\_post contrast

TA: 0:18 PM: ISO Voxel size: 1.1×1.1×3.0 mmPAT: 4 Rel. SNR: 1.00 : fl | Substep: 2/2

**Properties**

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	On
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

**Routine**

Slab group	1
Slabs	1
Dist. factor	20 %
Position	R9.7 P0.0 F130.3 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	30 %
Slice oversampling	30.0 %
Slices per slab	80
FoV read	350 mm
FoV phase	75.0 %
Slice thickness	3.0 mm
TR	6.71 ms
TE 1	2.39 ms
TE 2	4.77 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D), Prescan Normalize
Coil elements	BO2,3;SP4-6

**Contrast - Common**

TR	6.71 ms
TE 1	2.39 ms
TE 2	4.77 ms
Flip angle	10.0 deg
Fat suppr.	None
Water suppr.	None
Dixon	On
Dixon evaluation	Off

**Contrast - Dynamic**

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Off

**Resolution - Common**

FoV read	350 mm
FoV phase	75.0 %
Slice thickness	3.0 mm
Base resolution	320
Phase resolution	75 %
Slice resolution	50 %

**Resolution - Common**

Phase partial Fourier	Off
Slice partial Fourier	6/8
Trajectory	Cartesian
View sharing	Off
Interpolation	Off

**Resolution - iPAT**

PAT mode	CAIPIRINHA
Accel. factor PE	2
Ref. lines PE	24
Accel. factor 3D	2
Ref. lines 3D	24
Reordering Shift 3D	1
Reference scan mode	GRE/separate
CAIPIRINHA mode	Body Tra
Total PAT factor	4

**Resolution - Filter Image**

Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	On
Unfiltered images	Off
Normalize	Off
B1 filter	Off

**Resolution - Filter Rawdata**

Raw filter	Off
Elliptical filter	Off
POCS	Off

**Geometry - Common**

Slab group	1
Slabs	1
Dist. factor	20 %
Position	R9.7 P0.0 F130.3 mm
Orientation	Transversal
Phase enc. dir.	A >> P
Slice oversampling	30.0 %
Slices per slab	80
FoV read	350 mm
FoV phase	75.0 %
Slice thickness	3.0 mm
TR	6.71 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	1

**Geometry - AutoAlign**

Slab group	1
Position	R9.7 P0.0 F130.3 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	R9.7 P0.0 H99.3
R	9.7 mm
P	0.0 mm
F	99.3 mm
Initial Rotation	0.00 deg

**Geometry - AutoAlign**

Initial Orientation	Transversal
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**Geometry - Saturation**

Fat suppr.	None
Water suppr.	None
Dixon	On
Dixon evaluation	Off
Special sat.	None

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	On
Table position	F
Table position	130 mm
Inline Composing	On
Normalize	Off
Composing Function	Adaptive

**System - Miscellaneous**

Positioning mode	ISO
Table position	F
Table position	130 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	P >> A
Transversal	H >> F
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off
Coil Focus	Flat
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

B0 Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

**System - Adjust Volume**

Position	R9.7 P0.0 F130.3 mm
Orientation	Transversal
Rotation	0.00 deg
A >> P	263 mm
R >> L	350 mm
F >> H	240 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	63.638636 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Physio - PACE**

Resp. control	Breath-hold
Concatenations	1

**Inline - Common**

View sharing	Off
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**Inline - Common**

Flip angle	10.0 deg
Measurements	1
Burn time-to-center	Off
Temporal interpolation	1
3D centric reordering	Off
Time to center	8.1 s

**Inline - Inline**

Subtract	Off
Measurements	1
StdDev	Off
Liver registration	Off
Save original images	On

**Inline - MIP**

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

**Inline - Soft Tissue**

Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
Measurements	1

**Inline - Composing**

Inline Composing	On
Composing Function	Adaptive
Normalize	Off
Series Description	vibe_dixon_tra_KM_COMP
Distortion Corr.	On
Mode	2D
Unfiltered images	Off

**Inline - MapIt**

Save original images	On
MapIt	None
Flip angle	10.0 deg
Measurements	1
Contrasts	2
TR	6.71 ms
TE 1	2.39 ms
TE 2	4.77 ms

**Sequence - Part 1**

Introduction	Off
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Off
Contrasts	2
Readout mode	Bipolar
Optimization	Opp/In
Multi-slice mode	Sequential
Bandwidth 1	470 Hz/Px
Bandwidth 2	470 Hz/Px

**Sequence - Part 2**

RF pulse type	Fast
Gradient mode	Fast

**Sequence - Part 2**

Excitation	Slab-sel.
RF spoiling	On
Incr. Gradient spoiling	Off

**Sequence - Assistant**

Mode	Off
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