

Table of contents

\\USER

<table border="1"><tr><td>1.5T XB10</td></tr></table>	1.5T XB10
1.5T XB10	

<table border="1"><tr><td><table border="1"><tr><td>pelvis</td></tr></table></td></tr></table>	<table border="1"><tr><td>pelvis</td></tr></table>	pelvis
<table border="1"><tr><td>pelvis</td></tr></table>	pelvis	
pelvis		

<table border="1"><tr><td><table border="1"><tr><td>rectum</td></tr></table></td></tr></table>	<table border="1"><tr><td>rectum</td></tr></table>	rectum
<table border="1"><tr><td>rectum</td></tr></table>	rectum	
rectum		

<table border="1"><tr><td><table border="1"><tr><td><table border="1"><tr><td>localizer</td></tr><tr><td>t2_tse_tra</td></tr><tr><td>t2_tse_sag</td></tr><tr><td>t2_tse_sax</td></tr><tr><td>t2_tse_lax</td></tr><tr><td>ep2d_diff_sax</td></tr><tr><td>resolve_diff_sax</td></tr></table></td></tr></table></td></tr></table>	<table border="1"><tr><td><table border="1"><tr><td>localizer</td></tr><tr><td>t2_tse_tra</td></tr><tr><td>t2_tse_sag</td></tr><tr><td>t2_tse_sax</td></tr><tr><td>t2_tse_lax</td></tr><tr><td>ep2d_diff_sax</td></tr><tr><td>resolve_diff_sax</td></tr></table></td></tr></table>	<table border="1"><tr><td>localizer</td></tr><tr><td>t2_tse_tra</td></tr><tr><td>t2_tse_sag</td></tr><tr><td>t2_tse_sax</td></tr><tr><td>t2_tse_lax</td></tr><tr><td>ep2d_diff_sax</td></tr><tr><td>resolve_diff_sax</td></tr></table>	localizer	t2_tse_tra	t2_tse_sag	t2_tse_sax	t2_tse_lax	ep2d_diff_sax	resolve_diff_sax
<table border="1"><tr><td><table border="1"><tr><td>localizer</td></tr><tr><td>t2_tse_tra</td></tr><tr><td>t2_tse_sag</td></tr><tr><td>t2_tse_sax</td></tr><tr><td>t2_tse_lax</td></tr><tr><td>ep2d_diff_sax</td></tr><tr><td>resolve_diff_sax</td></tr></table></td></tr></table>	<table border="1"><tr><td>localizer</td></tr><tr><td>t2_tse_tra</td></tr><tr><td>t2_tse_sag</td></tr><tr><td>t2_tse_sax</td></tr><tr><td>t2_tse_lax</td></tr><tr><td>ep2d_diff_sax</td></tr><tr><td>resolve_diff_sax</td></tr></table>	localizer	t2_tse_tra	t2_tse_sag	t2_tse_sax	t2_tse_lax	ep2d_diff_sax	resolve_diff_sax	
<table border="1"><tr><td>localizer</td></tr><tr><td>t2_tse_tra</td></tr><tr><td>t2_tse_sag</td></tr><tr><td>t2_tse_sax</td></tr><tr><td>t2_tse_lax</td></tr><tr><td>ep2d_diff_sax</td></tr><tr><td>resolve_diff_sax</td></tr></table>	localizer	t2_tse_tra	t2_tse_sag	t2_tse_sax	t2_tse_lax	ep2d_diff_sax	resolve_diff_sax		
localizer									
t2_tse_tra									
t2_tse_sag									
t2_tse_sax									
t2_tse_lax									
ep2d_diff_sax									
resolve_diff_sax									

\\USER\1.5T XB10\pelvis\rectum\localizer

TA: 13 sec Coil Selection: Auto Voxel Size: 1.7×1.7×7.0 mm³ Acc:: 2 Rel. SNR: 1.00

Properties

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	On
Auto Close Inline Display	On
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	On
Load Images to Graphic Segments	On
	All Segments
Inline Movie	Off
Before Measurement	
After Measurement	

Routine

Slice Group	1
Slices	7
Distance Factor	120 %
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	A >> P
AutoAlign	---
Slice Group	2
Slices	5
Distance Factor	250 %
Position	L0.0 P50.0 H0.0 mm
Orientation	Coronal
Phase Encoding Dir.	R >> L
AutoAlign	---
Slice Group	3
Slices	5
Distance Factor	160 %
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	A >> P
AutoAlign	---
Phase Oversampling	20 %
FOV Read	400 mm
FOV Phase	100.0 %
Slice Thickness	7.0 mm
TR	700.0 ms
TE	90.00 ms
Averages	1

Contrast - Common

TR	700.0 ms
TE	90.00 ms
MTC	Off

Contrast - Common

Magn. Preparation	None
Flip Angle Mode	Hyperecho
Flip Angle 1	100 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	None
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1
Multiple Series	Each Measurement

Resolution - Common

FOV Read	400 mm
FOV Phase	100.0 %
Slice Thickness	7.0 mm
Base Resolution	240
Phase Resolution	70 %
Interpolation	1.00

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	TSE/Separate
Acceleration Factor PE	2
Reference Lines PE	24
Deep Resolve / ID Gain	On
Phase Partial Fourier	6/8

Resolution - Filter

Raw Filter	Off
Elliptical Filter	Off
Distortion Correction	2D
Normalize	Prescan
Image Filter	Off

Geometry - Common

Slice Group	1
Slices	7
Distance Factor	120 %
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	A >> P
Slice Group	2
Slices	5
Distance Factor	250 %
Position	L0.0 P50.0 H0.0 mm
Orientation	Coronal

Geometry - Common

Phase Encoding Dir.	R >> L
Slice Group	3
Slices	5
Distance Factor	160 %
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Phase Oversampling	20 %
FOV Read	400 mm
FOV Phase	100.0 %
Slice Thickness	7.0 mm
TR	700.0 ms
Multi-Slice Mode	Single Shot
Series	Ascending

Geometry - AutoAlign

Slice Group	1
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	A >> P
AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Orientation	Transversal
Initial Rotation	0.00 deg
Slice Group	2
Position	L0.0 P50.0 H0.0 mm
Orientation	Coronal
Phase Encoding Dir.	R >> L
AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Orientation	Transversal
Initial Rotation	0.00 deg
Slice Group	3
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	A >> P
AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Orientation	Transversal
Initial Rotation	0.00 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	None
--------------------	------

Geometry - Tim Planning Suite

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

System - Miscellaneous

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Tune up
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

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	63.600000 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	700.0 ms

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	400 mm
FOV Phase	100.0 %
Phase Resolution	70 %
Motion Correction	None

Physio - PACE

Resp. Control	Off
---------------	-----

Inline - Subtraction

Subtract	Off
Measurements	1
StdDev	Off
Motion Correction	None
Save Original Images	On

Inline - MIP

MIP Sag	Off
MIP Cor	Off
MIP Tra	Off
MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

Inline - Composing

Inline Composing	Off
------------------	-----

Inline - Open Recon

Algorithm	None
-----------	------

Sequence - Part 1

Sequence Name	h
Dimension	2D
RF Pulse Type	Normal
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	496 Hz/Px
Echo Spacing	4.08 ms
Turbo Factor	168

Sequence - Part 2

Introduction	On
Motion Correction	None

Sequence - Assistant

SAR Assistant	TR
Max. TR	1000.0 ms
Allowed Delay	0 s

\\USER\1.5T XB10\pelvis\rectum\t2_tse_tra

TA: 1:20 min Coil Selection: Auto Voxel Size: 0.5×0.5×4.0 mm³ Acc:: 3 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	Off
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
	Default
Inline Movie	Off
Before Measurement	
After Measurement	

Resolution - Common

FOV Read	400 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
Base Resolution	400
Phase Resolution	100 %
Interpolation	On

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	Integrated
Acceleration Factor PE	3
Reference Lines PE	40
Deep Resolve / ID Gain	Off
Phase Partial Fourier	Off

Resolution - Filter

Raw Filter	Off
Elliptical Filter	Off
Distortion Correction	2D
Normalize	Prescan
Image Filter	Off

Routine

Slice Group	1
Slices	30
Distance Factor	20 %
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	R >> L
AutoAlign	---
Phase Oversampling	60 %
FOV Read	400 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
TR	4600.0 ms
TE	73.00 ms
Averages	1
Concatenations	1

Geometry - Common

Slice Group	1
Slices	30
Distance Factor	20 %
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	R >> L
Phase Oversampling	60 %
FOV Read	400 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
TR	4600.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

Contrast - Common

TR	4600.0 ms
TE	73.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle 1	150 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	Restore
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1
Multiple Series	Off

Geometry - AutoAlign

Slice Group	1
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	R >> L
AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Orientation	Transversal
Initial Rotation	0.00 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	None
--------------------	------

Geometry - Tim Planning Suite

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

System - Miscellaneous

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Tune up
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

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	63.600000 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	4600.0 ms
Concatenations	1

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off

Physio - Cardiac

FOV Read	400 mm
FOV Phase	100.0 %
Phase Resolution	100 %
Motion Correction	None

Physio - PACE

Resp. Control	Off
Concatenations	1

Inline - Subtraction

Subtract	Off
Measurements	1
StdDev	Off
Motion Correction	None
Save Original Images	On

Inline - MIP

MIP Sag	Off
MIP Cor	Off
MIP Tra	Off
MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

Inline - Composing

Inline Composing	Off
------------------	-----

Inline - Open Recon

Algorithm	None
-----------	------

Sequence - Part 1

Sequence Name	qtseR
Dimension	2D
RF Pulse Type	Normal
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	202 Hz/Px
Echo Spacing	9.10 ms
Free Echo Spacing	Off
Define	Turbo Factor
Turbo Factor	15
Echo Trains per Slice	16

Sequence - Part 2

Introduction	On
Phase Correction	Automatic
Compensate T2 Decay	Off
Fast Mode	Off
WARP	Off
Red. EC Sensitivity	Off
Acoustic Noise Reduction	On

Sequence - Part 2

Reduce Motion Sens.	Off
Motion Correction	None

Sequence - Assistant

SAR Assistant	Flip Angle > TR
Min Flip Angle	120 deg
Max. TR	7000.0 ms
Allowed Delay	30 s

\\USER\1.5T XB10\pelvis\rectum\lt2_tse_sag

TA: 4:25 min Coil Selection: Auto Voxel Size: 0.6×0.6×3.0 mm³ Acc:: 2 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	Off
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
	Default
Inline Movie	Off
Before Measurement	
After Measurement	

Resolution - Common

FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
Base Resolution	336
Phase Resolution	80 %
Interpolation	Off

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	Self-calibration
Acceleration Factor PE	2
Reference Lines PE	32
Deep Resolve / ID Gain	Off
Phase Partial Fourier	Off

Resolution - Filter

Raw Filter	Off
Elliptical Filter	Off
Distortion Correction	2D
Normalize	Prescan
Image Filter	Off

Routine

Slice Group	1
Slices	20
Distance Factor	10 %
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	F >> H
AutoAlign	---
Phase Oversampling	120 %
FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
TR	5370.0 ms
TE	86.00 ms
Averages	4
Concatenations	1

Geometry - Common

Slice Group	1
Slices	20
Distance Factor	10 %
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	F >> H
Phase Oversampling	120 %
FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
TR	5370.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

Contrast - Common

TR	5370.0 ms
TE	86.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle 1	160 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	Restore
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1
Multiple Series	Off

Geometry - AutoAlign

Slice Group	1
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	F >> H
AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Orientation	Transversal
Initial Rotation	0.00 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	None
--------------------	------

Geometry - Tim Planning Suite

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

System - Miscellaneous

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	L >> R
Coronal	P >> A
Transversal	H >> F
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Tune up
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

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	63.600000 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	5370.0 ms
Concatenations	1

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off

Physio - Cardiac

FOV Read	200 mm
FOV Phase	100.0 %
Phase Resolution	80 %
Motion Correction	None

Physio - PACE

Resp. Control	Off
Concatenations	1

Inline - Subtraction

Subtract	Off
Measurements	1
StdDev	Off
Motion Correction	None
Save Original Images	On

Inline - MIP

MIP Sag	Off
MIP Cor	Off
MIP Tra	Off
MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

Inline - Composing

Inline Composing	Off
------------------	-----

Inline - Open Recon

Algorithm	None
-----------	------

Sequence - Part 1

Sequence Name	tseR
Dimension	2D
RF Pulse Type	Normal
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	186 Hz/Px
Echo Spacing	9.60 ms
Free Echo Spacing	Off
Define	Turbo Factor
Turbo Factor	25
Echo Trains per Slice	12

Sequence - Part 2

Introduction	On
Phase Correction	Automatic
Compensate T2 Decay	Off
Fast Mode	Off
WARP	Off
Red. EC Sensitivity	Off
Acoustic Noise Reduction	Off

Sequence - Part 2

Reduce Motion Sens.	On
Motion Correction	None

Sequence - Assistant

SAR Assistant	Flip Angle > TR
Min Flip Angle	120 deg
Max. TR	6000.0 ms
Allowed Delay	30 s

\\USER\1.5T XB10\pelvis\rectum\lt2_tse_sax

TA: 4:25 min Coil Selection: Auto Voxel Size: 0.6×0.6×3.0 mm³ Acc:: 2 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	Off
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
	Default
Inline Movie	Off
Before Measurement	
After Measurement	

Resolution - Common

FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
Base Resolution	336
Phase Resolution	80 %
Interpolation	Off

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	Self-calibration
Acceleration Factor PE	2
Reference Lines PE	32
Deep Resolve / ID Gain	Off
Phase Partial Fourier	Off

Resolution - Filter

Raw Filter	Off
Elliptical Filter	Off
Distortion Correction	2D
Normalize	Prescan
Image Filter	Off

Routine

Slice Group	1
Slices	20
Distance Factor	10 %
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	R >> L
AutoAlign	---
Phase Oversampling	120 %
FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
TR	5370.0 ms
TE	86.00 ms
Averages	4
Concatenations	1

Geometry - Common

Slice Group	1
Slices	20
Distance Factor	10 %
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	R >> L
Phase Oversampling	120 %
FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
TR	5370.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

Contrast - Common

TR	5370.0 ms
TE	86.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle 1	160 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	Restore
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1
Multiple Series	Off

Geometry - AutoAlign

Slice Group	1
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	R >> L
AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Orientation	Transversal
Initial Rotation	0.00 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	None
--------------------	------

Geometry - Tim Planning Suite

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

System - Miscellaneous

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	L >> R
Coronal	P >> A
Transversal	H >> F
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Tune up
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

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	63.600000 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	5370.0 ms
Concatenations	1

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off

Physio - Cardiac

FOV Read	200 mm
FOV Phase	100.0 %
Phase Resolution	80 %
Motion Correction	None

Physio - PACE

Resp. Control	Off
Concatenations	1

Inline - Subtraction

Subtract	Off
Measurements	1
StdDev	Off
Motion Correction	None
Save Original Images	On

Inline - MIP

MIP Sag	Off
MIP Cor	Off
MIP Tra	Off
MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

Inline - Composing

Inline Composing	Off
------------------	-----

Inline - Open Recon

Algorithm	None
-----------	------

Sequence - Part 1

Sequence Name	tseR
Dimension	2D
RF Pulse Type	Normal
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	186 Hz/Px
Echo Spacing	9.60 ms
Free Echo Spacing	Off
Define	Turbo Factor
Turbo Factor	25
Echo Trains per Slice	12

Sequence - Part 2

Introduction	On
Phase Correction	Automatic
Compensate T2 Decay	Off
Fast Mode	Off
WARP	Off
Red. EC Sensitivity	Off
Acoustic Noise Reduction	Off

Sequence - Part 2

Reduce Motion Sens.	On
Motion Correction	None

Sequence - Assistant

SAR Assistant	Flip Angle > TR
Min Flip Angle	120 deg
Max. TR	6000.0 ms
Allowed Delay	30 s

\\USER\1.5T XB10\pelvis\rectum\t2_tse_lax

TA: 4:25 min Coil Selection: Auto Voxel Size: 0.6×0.6×3.0 mm³ Acc:: 2 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	Off
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
	Default
Inline Movie	Off
Before Measurement	
After Measurement	

Resolution - Common

FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
Base Resolution	336
Phase Resolution	80 %
Interpolation	Off

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	Self-calibration
Acceleration Factor PE	2
Reference Lines PE	32
Deep Resolve / ID Gain	Off
Phase Partial Fourier	Off

Resolution - Filter

Raw Filter	Off
Elliptical Filter	Off
Distortion Correction	2D
Normalize	Prescan
Image Filter	Off

Routine

Slice Group	1
Slices	20
Distance Factor	10 %
Position	Isocenter
Orientation	Coronal
Phase Encoding Dir.	R >> L
AutoAlign	---
Phase Oversampling	120 %
FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
TR	5370.0 ms
TE	86.00 ms
Averages	4
Concatenations	1

Geometry - Common

Slice Group	1
Slices	20
Distance Factor	10 %
Position	Isocenter
Orientation	Coronal
Phase Encoding Dir.	R >> L
Phase Oversampling	120 %
FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
TR	5370.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

Contrast - Common

TR	5370.0 ms
TE	86.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle 1	160 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	Restore
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1
Multiple Series	Off

Geometry - AutoAlign

Slice Group	1
Position	Isocenter
Orientation	Coronal
Phase Encoding Dir.	R >> L
AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Orientation	Transversal
Initial Rotation	0.00 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	None
--------------------	------

Geometry - Tim Planning Suite

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

System - Miscellaneous

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	L >> R
Coronal	P >> A
Transversal	H >> F
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Tune up
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

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	63.600000 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	5370.0 ms
Concatenations	1

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off

Physio - Cardiac

FOV Read	200 mm
FOV Phase	100.0 %
Phase Resolution	80 %
Motion Correction	None

Physio - PACE

Resp. Control	Off
Concatenations	1

Inline - Subtraction

Subtract	Off
Measurements	1
StdDev	Off
Motion Correction	None
Save Original Images	On

Inline - MIP

MIP Sag	Off
MIP Cor	Off
MIP Tra	Off
MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

Inline - Composing

Inline Composing	Off
------------------	-----

Inline - Open Recon

Algorithm	None
-----------	------

Sequence - Part 1

Sequence Name	tseR
Dimension	2D
RF Pulse Type	Normal
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	186 Hz/Px
Echo Spacing	9.60 ms
Free Echo Spacing	Off
Define	Turbo Factor
Turbo Factor	25
Echo Trains per Slice	12

Sequence - Part 2

Introduction	On
Phase Correction	Automatic
Compensate T2 Decay	Off
Fast Mode	Off
WARP	Off
Red. EC Sensitivity	Off
Acoustic Noise Reduction	Off

Sequence - Part 2

Reduce Motion Sens.	On
Motion Correction	None

Sequence - Assistant

SAR Assistant	Flip Angle > TR
Min Flip Angle	120 deg
Max. TR	6000.0 ms
Allowed Delay	30 s

\\USER\1.5T XB10\pelvis\rectum\lep2d_diff_sax

TA: 2:45 min Coil Selection: Auto Voxel Size: 1.0×1.0×3.0 mm³ Acc:: 2 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	Off
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
	Default
Inline Movie	Off
Before Measurement	
After Measurement	

Routine

Slice Group	1
Slices	20
Distance Factor	10 %
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	R >> L
AutoAlign	---
Phase Oversampling	0 %
FOV Read	230 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
TR	3900.0 ms
TE	60.00 ms
Concatenations	1

Contrast - Common

TR	3900.0 ms
TE	60.00 ms
MTC	Off
Magn. Preparation	None
Fat-Water Contrast	Fat Saturation
Fat Saturation	Strong
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Delay in TR	0.00 ms

Resolution - Common

FOV Read	230 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm

Resolution - Common

Base Resolution	110
Phase Resolution	100 %
Interpolation	On

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	EPI/Separate
Acceleration Factor PE	2
Reference Lines PE	32
Deep Resolve / ID Gain	Off
Phase Partial Fourier	Off

Resolution - Filter

Raw Filter	On
Elliptical Filter	Off
Distortion Correction	2D
Normalize	Off

Geometry - Common

Slice Group	1
Slices	20
Distance Factor	10 %
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	R >> L
Phase Oversampling	0 %
FOV Read	230 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
TR	3900.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice Group	1
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	R >> L
AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Orientation	Transversal
Initial Rotation	0.00 deg

Geometry - Navigator

Geometry - Saturation

Special Saturation	None
--------------------	------

Geometry - Tim Planning Suite

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

System - Miscellaneous

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	L >> R
Coronal	P >> A
Transversal	H >> F
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Standard
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	Isocenter
Orientation	Transversal
Rotation	90.00 deg
R >> L	230 mm
A >> P	230 mm
F >> H	66 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.600000 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	3.000

Physio - Signal

1st Signal/Mode	None
TR	3900.0 ms
Concatenations	1

Physio - PACE

Resp. Control	Off
Concatenations	1

Diff

Diffusion Mode	3D Diagonal
----------------	-------------

Diff

Diff. Directions	1
Diffusion Scheme	Monopolar
Diff. Weightings	2
b-value 1	50 s/mm ²
b-value 2	800 s/mm ²
Averages 1	6
Averages 2	33
Complex Averaging	Off
Dynamic Field Correction	On
Invert Gray Scale	Off
Diff. Weighted Images	On
Trace Weighted Images	Off
Tensor	Off
FA Maps	Off
ADC Maps	On
Exponential ADC Maps	Off
b-value >=	0 s/mm ²
ADC Noise Threshold	20
Calculated Image	Off

Inline - Open Recon

Algorithm	None
-----------	------

Sequence - Part 1

Sequence Name	epse
Excitation	Standard
RF Pulse Type	Normal
Gradient Mode	Fast*
Bandwidth	1818 Hz/Px
Echo Spacing	0.65 ms
Free Echo Spacing	Off
Optimization	None
EPI Factor	110

Sequence - Part 2

Introduction	On
Phase Correction	External
Ghost Reduction	Off

Sequence - Assistant

SAR Assistant	Off
Optimization	None

\\USER\1.5T XB10\pelvis\rectum\resolve_diff_sax

TA: 4:07 min Coil Selection: Auto Voxel Size: 1.0x1.0x3.0 mm³ Acc:: 2 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	Off
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	On
Load Images to Graphic Segments	On
	3rd Segment
Inline Movie	Off
Before Measurement	
After Measurement	

Resolution - Common

FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
Base Resolution	100
Phase Resolution	100 %
Interpolation	On

Resolution - Acceleration

Accel. Mode	GRAPPA
Reference Scans	EPI/Separate
Acceleration Factor PE	2
Reference Lines PE	50
Phase Partial Fourier	Off
Readout Partial Fourier	Off
Readout Segments	5

Routine

Slice Group	1
Slices	20
Distance Factor	10 %
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	R >> L
AutoAlign	---
Phase Oversampling	0 %
FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
TR	3900.0 ms
TE 1	57 ms
TE 2	89 ms
Concatenations	1

Resolution - Filter

Raw Filter	Off
Distortion Correction	2D
Normalize	Prescan
Noise Masking	Off

Geometry - Common

Slice Group	1
Slices	20
Distance Factor	10 %
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	R >> L
Phase Oversampling	0 %
FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	3.0 mm
TR	3900.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

Contrast - Common

TR	3900.0 ms
TE 1	57 ms
TE 2	89 ms
MTC	Off
Magn. Preparation	None
Flip Angle	180 deg
Fat-Water Contrast	Fat Saturation
Fat Saturation	Strong
Contrasts	2
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1

Geometry - AutoAlign

Slice Group	1
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	R >> L
AutoAlign	---
Initial Position	L0.0 P0.0 H0.0
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Orientation	Transversal
Initial Rotation	90.00 deg

Geometry - Saturation

Special Saturation	None
--------------------	------

Geometry - Tim Planning Suite

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

System - Miscellaneous

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Standard
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	Isocenter
Orientation	Transversal
Rotation	90.00 deg
R >> L	200 mm
A >> P	200 mm
F >> H	66 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.600000 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	3.000

Physio - Signal

1st Signal/Mode	None
TR	3900.0 ms
Concatenations	1

Diff

Diffusion Mode	4-Scan Trace
Diff. Directions	4
Diffusion Scheme	Monopolar
Diff. Weightings	2
b-value 1	50 s/mm ²

Diff

b-value 2	1000 s/mm ²
Averages 1	1
Averages 2	2
Invert Gray Scale	Off
Diff. Weighted Images	Off
Trace Weighted Images	On
Tensor	Off
FA Maps	Off
ADC Maps	On
Exponential ADC Maps	Off
b-value >=	0 s/mm ²
ADC Noise Threshold	20
Noise Masking	Off
Calculated Image	Off

Inline - Open Recon

Algorithm	None
-----------	------

Sequence - Part 1

Sequence Name	resolve
Dimension	2D
RF Pulse Type	Normal
Gradient Mode	Fast
Bandwidth	676 Hz/Px
Echo Spacing	0.50 ms
Optimization	Min. TE
EPI Factor	50

Sequence - Part 2

Introduction	On
Reacquisition Mode	Off

Sequence - Assistant

SAR Assistant	Off
Optimization	Min. TE