

\\USER\\SMS\_DWI\\Regions\\Breast\\ep2d\_diff\_tra\_spair

TA: 2:52 PM: REF Voxel size: 1.9×1.9×4.0 mmPAT: 2 Rel. SNR: 1.00 : epse

**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	25 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	P >> A
AutoAlign	---
Phase oversampling	0 %
FoV read	340 mm
FoV phase	60.0 %
Slice thickness	4.0 mm
TR	4900 ms
TE	70.0 ms
Concatenations	1
Filter	Dynamic Field Corr., Distortion Corr.(2D), Elliptical filter
Coil elements	7BL;7BR;AXL;AXR

**Contrast - Common**

TR	4900 ms
TE	70.0 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	340 mm
FoV phase	60.0 %
Slice thickness	4.0 mm
Base resolution	180
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

**Resolution - iPAT**

Accel. mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24

**Resolution - iPAT**

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

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

**Resolution - Filter Rawdata**

Raw filter	Off
Elliptical filter	On

**Geometry - Common**

Slice group	1
Slices	30
Dist. factor	25 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	P >> A
FoV read	340 mm
FoV phase	60.0 %
Slice thickness	4.0 mm
TR	4900 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

**Geometry - AutoAlign**

Slice group	1
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	P >> A
AutoAlign	---
Initial Position	R3.9 A19.9 H0.4
R	3.9 mm
A	19.9 mm
F	0.4 mm
Initial Rotation	-180.00 deg
Initial Orientation	Transversal

**Geometry - Saturation**

Sat. region	1
Thickness	150 mm
Position	R9.8 P135.7 H0.0 mm
Orientation	Coronal
Sat. region	2
Thickness	150 mm
Position	R14.1 P285.9 H3.5 mm
Orientation	Coronal
Fat sat. mode	Strong
Special sat.	None

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

Set-n-Go Protocol	Off
Table position	F
Table position	9 mm
Inline Composing	Off

**System - Miscellaneous**

Positioning mode	REF
Table position	F
Table position	9 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Adaptive Combine
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	On - Coil Memory

**System - Adjustments**

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

**System - Adjust Volume**

Position	Isocenter
Orientation	Transversal
Rotation	180.00 deg
A >> P	204 mm
R >> L	340 mm
F >> H	149 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	63.639556 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	4900 ms
Concatenations	1

**Physio - PACE**

Resp. control	Off
Concatenations	1

**Diff - Neuro**

Diffusion mode	3-Scan Trace
Diff. directions	3
Diffusion Scheme	Monopolar
Diff. weightings	3
b-value 1	50 s/mm <sup>2</sup>
b-value 2	400 s/mm <sup>2</sup>
b-value 3	800 s/mm <sup>2</sup>
b-value 1	2
b-value 2	4
b-value 3	4
Diff. weighted images	Off
Trace weighted images	On
ADC maps	On
FA maps	Off
Mosaic	Off
Tensor	Off

**Diff - Neuro**

Noise level	0
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**Diff - Body**

Diffusion mode	3-Scan Trace
Diff. directions	3
Diffusion Scheme	Monopolar
Diff. weightings	3
b-value 1	50 s/mm <sup>2</sup>
b-value 2	400 s/mm <sup>2</sup>
b-value 3	800 s/mm <sup>2</sup>
b-value 1	2
b-value 2	4
b-value 3	4
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 >=	0 s/mm <sup>2</sup>
Noise level	0

**Diff - Composing**

Inline Composing	Off
Distortion Corr.	On
Mode	2D

**Sequence - Part 1**

Introduction	Off
Optimization	Min. TE
Multi-slice mode	Interleaved
Free echo spacing	Off
Echo spacing	0.77 ms
Bandwidth	1544 Hz/Px

**Sequence - Part 2**

EPI factor	108
RF pulse type	Low SAR
Gradient mode	Fast

\\USER\SMS\_DWI\Regions\Breast\ep2d\_diff\_tra\_spair\_s2

TA: 1:40 PM: REF Voxel size: 1.9×1.9×4.0 mmPAT: 4 Rel. SNR: 1.00 : epse

**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	25 %
Position	L20.6 P6.1 H29.1 mm
Orientation	Transversal
Phase enc. dir.	P >> A
AutoAlign	---
Phase oversampling	0 %
FoV read	340 mm
FoV phase	60.0 %
Slice thickness	4.0 mm
TR	2700 ms
TE	76.0 ms
Concatenations	1
Filter	Dynamic Field Corr., Distortion Corr.(2D), Elliptical filter
Coil elements	BAL;BAR;BCL;BCR

**Contrast - Common**

TR	2700 ms
TE	76.0 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	340 mm
FoV phase	60.0 %
Slice thickness	4.0 mm
Base resolution	180
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

**Resolution - iPAT**

Accel. mode	Slice accel.
Accel. factor PE	2
Ref. lines PE	24

**Resolution - iPAT**

Accel. factor slice	2
Reference scan mode	EPI/separate

**Resolution - Filter Image**

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

**Resolution - Filter Rawdata**

Raw filter	Off
Elliptical filter	On

**Geometry - Common**

Slice group	1
Slices	30
Dist. factor	25 %
Position	L20.6 P6.1 H29.1 mm
Orientation	Transversal
Phase enc. dir.	P >> A
FoV read	340 mm
FoV phase	60.0 %
Slice thickness	4.0 mm
TR	2700 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

**Geometry - AutoAlign**

Slice group	1
Position	L20.6 P6.1 H29.1 mm
Orientation	Transversal
Phase enc. dir.	P >> A
AutoAlign	---
Initial Position	L20.6 P6.1 H29.1
L	20.6 mm
P	6.1 mm
H	29.1 mm
Initial Rotation	-180.00 deg
Initial Orientation	Transversal

**Geometry - Saturation**

Sat. region	1
Thickness	150 mm
Position	R9.8 P135.7 H9.0 mm
Orientation	Coronal
Sat. region	2
Thickness	150 mm
Position	R14.1 P285.9 H12.5 mm
Orientation	Coronal
Fat sat. mode	Strong
Special sat.	None

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

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

**Geometry - Tim Planning Suite**

Inline Composing	Off
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**System - Miscellaneous**

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Adaptive Combine
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	On - Coil Memory

**System - Adjustments**

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

**System - Adjust Volume**

Position	L20.6 P6.1 H29.1 mm
Orientation	Transversal
Rotation	180.00 deg
A >> P	204 mm
R >> L	340 mm
F >> H	149 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	63.639556 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	2700 ms
Concatenations	1

**Physio - PACE**

Resp. control	Off
Concatenations	1

**Diff - Neuro**

Diffusion mode	3-Scan Trace
Diff. directions	3
Diffusion Scheme	Monopolar
Diff. weightings	3
b-value 1	50 s/mm <sup>2</sup>
b-value 2	400 s/mm <sup>2</sup>
b-value 3	800 s/mm <sup>2</sup>
b-value 1	2
b-value 2	4
b-value 3	4
Diff. weighted images	Off
Trace weighted images	On

**Diff - Neuro**

ADC maps	On
FA maps	Off
Mosaic	Off
Tensor	Off
Noise level	0

**Diff - Body**

Diffusion mode	3-Scan Trace
Diff. directions	3
Diffusion Scheme	Monopolar
Diff. weightings	3
b-value 1	50 s/mm <sup>2</sup>
b-value 2	400 s/mm <sup>2</sup>
b-value 3	800 s/mm <sup>2</sup>
b-value 1	2
b-value 2	4
b-value 3	4
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 >=	0 s/mm <sup>2</sup>
Noise level	0

**Diff - Composing**

Inline Composing	Off
Distortion Corr.	On
Mode	2D

**Sequence - Part 1**

Introduction	Off
Optimization	None
Multi-slice mode	Interleaved
Free echo spacing	Off
Echo spacing	0.77 ms
Bandwidth	1462 Hz/Px

**Sequence - Part 2**

EPI factor	108
RF pulse type	Low SAR
Gradient mode	Fast