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Head

Epilepsy

sola_xa61_Brain_developmental

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\\User\Head\Epilepsy\sola_xa61_Brain_developmental\loc_3Plane_HASTE *

TA: 12 sec Coil Selection: Auto Voxel Size: 0.9×0.9×5.0 mm³ Acc.: None 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	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
Graphic segment	Default
Inline Movie	Off

Contrast - Common

Flip Angle 1	180 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Fat Saturation
Fat Saturation	Strong
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	None
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1
Multiple Series	Each Measurement

Routine

Slice Group	1
Slices	3
Distance Factor	100 %
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Slice Group	2
Slices	3
Distance Factor	100 %
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Slice Group	3
Slices	3
Distance Factor	100 %
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Phase Oversampling	0 %
FOV Read	240 mm
FOV Phase	100.0 %
Slice Thickness	5.0 mm
TR	1550.0 ms
TE	67.00 ms
Averages	1
Concatenations	3
AutoAlign	---

Resolution - Common

FOV Read	240 mm
FOV Phase	100.0 %
Slice Thickness	5.0 mm
Base Resolution	256
Phase Resolution	90 %
Interpolation	1.00

Resolution - Acceleration

Acceleration Mode	None
Deep Resolve	Off
Phase Partial Fourier	4/8

Resolution - Filter

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

Geometry - Common

Slice Group	1
Slices	3
Distance Factor	100 %
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Slice Group	2
Slices	3
Distance Factor	100 %
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Slice Group	3
Slices	3
Distance Factor	100 %

Contrast - Common

TR	1550.0 ms
TE	67.00 ms
TD	0.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle Mode	Constant

Geometry - Common

Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Phase Oversampling	0 %
FOV Read	240 mm
FOV Phase	100.0 %
Slice Thickness	5.0 mm
TR	1550.0 ms
Multi-Slice Mode	Single Shot
Series	Interleaved
Concatenations	3

Geometry - AutoAlign

Slice Group	1
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Slice Group	2
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	A >> P
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
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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	F >> H
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	Sagittal
Rotation	0.00 deg
A >> P	240 mm
F >> H	240 mm
R >> L	240 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.665012 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	1550.0 ms
Concatenations	3

Physio - Cardiac

Fat-Water Contrast	Fat Saturation
Magn. Preparation	None
Dark Blood	Off
FOV Read	240 mm
FOV Phase	100.0 %
Phase Resolution	90 %
Motion Correction	None

Physio - PACE

Resp. Control	Off
Concatenations	3

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

Inline - MIP

Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

Inline - Composing

Inline Composing	Off
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Sequence - Part 1

Sequence Name	h
Dimension	2D
RF Pulse Type	Normal
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	195 Hz/Px
Echo Spacing	7.46 ms
Turbo Factor	230

Sequence - Part 2

Introduction	On
Motion Correction	None

Sequence - Assistant

SAR Assistant	Off
Allowed Delay	0 s

\\User\Head\Epilepsy\Isola_xa61_Brain_developmental\T2_qtse_tra *

TA: 2:06 min Coil Selection: Auto Voxel Size: 0.3×0.3×4.0 mm³ Acc:: 3 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	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	Off
Graphic segment	Default
Inline Movie	Off

Resolution - Common

FOV Read	230 mm
FOV Phase	90.6 %
Slice Thickness	4.0 mm
Base Resolution	448
Phase Resolution	75 %
Interpolation	On

Resolution - Acceleration

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

Routine

Slice Group	1
Slices	28
Distance Factor	25 %
Position	R2.9 P13.6 F0.8 mm
Orientation	T > C-4.0 > S-2.0
Phase Encoding Dir.	R >> L
Phase Oversampling	140 %
FOV Read	230 mm
FOV Phase	90.6 %
Slice Thickness	4.0 mm
TR	6550.0 ms
TE	99.00 ms
Averages	1
Concatenations	1
AutoAlign	---

Resolution - Filter

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

Geometry - Common

Slice Group	1
Slices	28
Distance Factor	25 %
Position	R2.9 P13.6 F0.8 mm
Orientation	T > C-4.0 > S-2.0
Phase Encoding Dir.	R >> L
Phase Oversampling	140 %
FOV Read	230 mm
FOV Phase	90.6 %
Slice Thickness	4.0 mm
TR	6550.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

Contrast - Common

TR	6550.0 ms
TE	99.00 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.	None
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1
Multiple Series	Each Measurement

Geometry - AutoAlign

Slice Group	1
Position	R2.9 P13.6 F0.8 mm
Orientation	T > C-4.0 > S-2.0
Phase Encoding Dir.	R >> L
AutoAlign	---
Initial Position	R2.9 P13.6 F0.8
R	2.9 mm
P	13.6 mm
F	0.8 mm
Initial Orientation	T > C
T > C	-4.00

Geometry - AutoAlign

> S	-2.00
Initial Rotation	90.00 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	Parallel F
Gap	10.00 mm
Thickness	50.00 mm

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	1 mm
Table Position	F
Inline Composing	Off

System - Miscellaneous

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
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	63.665012 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	6550.0 ms

Physio - Signal

Concatenations	1
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Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	230 mm
FOV Phase	90.6 %
Phase Resolution	75 %
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
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Sequence - Part 1

Sequence Name	qtse
Dimension	2D
RF Pulse Type	Normal
Gradient Mode	Normal
Flow Compensation	None
Bandwidth	199 Hz/Px
Echo Spacing	11.0 ms
Free Echo Spacing	On
Define	Turbo Factor
Turbo Factor	15
Echo Trains per Slice	18

Sequence - Part 2

Introduction	On
Phase Correction	Automatic
Compensate T2 Decay	Off
Fast Mode	Off

Sequence - Part 2

WARP	Off
Red. EC Sensitivity	Off
Acoustic noise reduction	On
Reduce Motion Sens.	Off
Motion Correction	None

Sequence - Assistant

SAR Assistant	Flip Angle > TR > RF Pulse Type
Min Flip Angle	130 deg
Max. TR	7500.0 ms
Allowed Delay	30 s

\\User\Head\Epilepsy\sola_xa61_Brain_developmental\t2_qtse_cor_3.0mm *

TA: 1:32 min Coil Selection: Auto Voxel Size: 0.3×0.3×3.0 mm³ Acc:: 3 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	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
Graphic segment	Default
Inline Movie	Off

Resolution - Common

FOV Read	230 mm
FOV Phase	76.1 %
Slice Thickness	3.0 mm
Base Resolution	368
Phase Resolution	80 %
Interpolation	On

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	Integrated
Acceleration Factor PE	3
Reference Lines PE	26
Deep Resolve	On
Phase Partial Fourier	Off

Routine

Slice Group	1
Slices	39
Distance Factor	25 %
Position	L0.1 P28.9 H21.3 mm
Orientation	C > T-15.1 > S1.1
Phase Encoding Dir.	R >> L
Phase Oversampling	150 %
FOV Read	230 mm
FOV Phase	76.1 %
Slice Thickness	3.0 mm
TR	3520.0 ms
TE	94.00 ms
Averages	1
Concatenations	2
AutoAlign	---

Resolution - Filter

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

Geometry - Common

Slice Group	1
Slices	39
Distance Factor	25 %
Position	L0.1 P28.9 H21.3 mm
Orientation	C > T-15.1 > S1.1
Phase Encoding Dir.	R >> L
Phase Oversampling	150 %
FOV Read	230 mm
FOV Phase	76.1 %
Slice Thickness	3.0 mm
TR	3520.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	2

Contrast - Common

TR	3520.0 ms
TE	94.00 ms
TD	0.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle 1	180 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	Each Measurement

Geometry - AutoAlign

Slice Group	1
Position	L0.1 P28.9 H21.3 mm
Orientation	C > T-15.1 > S1.1
Phase Encoding Dir.	R >> L
AutoAlign	---
Initial Position	L0.1 P28.9 H21.3
L	0.1 mm
P	28.9 mm
H	21.3 mm
Initial Orientation	C > T
C > T	-15.10

Geometry - AutoAlign

> S	1.10
Initial Rotation	0.00 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	None
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Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	21 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	F >> H
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	L0.1 P28.9 H21.3 mm
Orientation	C > T-15.1 > S1.1
Rotation	0.00 deg
R >> L	175 mm
F >> H	230 mm
A >> P	146 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.665012 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	3520.0 ms
Concatenations	2

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	230 mm
FOV Phase	76.1 %
Phase Resolution	80 %
Motion Correction	None

Physio - PACE

Resp. Control	Off
Concatenations	2

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
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Sequence - Part 1

Sequence Name	qtseR
Dimension	2D
RF Pulse Type	Normal
Gradient Mode	Normal
Flow Compensation	None
Bandwidth	200 Hz/Px
Echo Spacing	9.44 ms
Free Echo Spacing	Off
Define	Turbo Factor
Turbo Factor	17
Echo Trains per Slice	12

Sequence - Part 2

Introduction	Off
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 > RF Pulse Type
Min Flip Angle	140 deg
Max. TR	4500.0 ms
Allowed Delay	30 s

\\User\Head\Epilepsy\sola_xa61_Brain_developmental\t2_FLAIR_tra_320_FS *

TA: 2:52 min Coil Selection: Auto Voxel Size: 0.4×0.4×4.0 mm³ Acc:: 4 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	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
Graphic segment	Default
Inline Movie	Off

Routine

Slice Group	1
Slices	28
Distance Factor	25 %
Position	R2.9 P13.6 F0.8 mm
Orientation	T > C-4.0 > S-2.0
Phase Encoding Dir.	R >> L
Phase Oversampling	100 %
FOV Read	230 mm
FOV Phase	93.8 %
Slice Thickness	4.0 mm
TR	8500.0 ms
TE	84.00 ms
Averages	1
Concatenations	2
AutoAlign	---

Contrast - Common

TR	8500.0 ms
TE	84.00 ms
TD	0.00 ms
MTC	Off
Magn. Preparation	Slice-sel. IR
TI	2440 ms
Freeze Suppr. Tissue	On
Flip Angle 1	150 deg
Flip Angle 2	90 deg
Fat-Water Contrast	Fat Saturation
Fat Saturation	Strong
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	None
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
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Contrast - Dynamic

Measurements	1
Multiple Series	Each Measurement

Resolution - Common

FOV Read	230 mm
FOV Phase	93.8 %
Slice Thickness	4.0 mm
Base Resolution	256
Phase Resolution	100 %
Interpolation	On

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	Integrated
Acceleration Factor PE	4
Reference Lines PE	31
Deep Resolve	On
Phase Partial Fourier	Off

Resolution - Filter

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

Geometry - Common

Slice Group	1
Slices	28
Distance Factor	25 %
Position	R2.9 P13.6 F0.8 mm
Orientation	T > C-4.0 > S-2.0
Phase Encoding Dir.	R >> L
Phase Oversampling	100 %
FOV Read	230 mm
FOV Phase	93.8 %
Slice Thickness	4.0 mm
TR	8500.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	2

Geometry - AutoAlign

Slice Group	1
Position	R2.9 P13.6 F0.8 mm
Orientation	T > C-4.0 > S-2.0
Phase Encoding Dir.	R >> L
AutoAlign	---
Initial Position	R2.9 P13.6 F0.8
R	2.9 mm

Geometry - AutoAlign

P	13.6 mm
F	0.8 mm
Initial Orientation	T > C
T > C	-4.00
> S	-2.00
Initial Rotation	90.00 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	None
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Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	1 mm
Table Position	F
Inline Composing	Off

System - Miscellaneous

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
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	R2.9 P13.6 F0.8 mm
Orientation	T > C-4.0 > S-2.0
Rotation	90.00 deg
R >> L	216 mm
A >> P	230 mm
F >> H	139 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.665012 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	8500.0 ms
Concatenations	2

Physio - Cardiac

Fat-Water Contrast	Fat Saturation
Magn. Preparation	Slice-sel. IR
TI	2440 ms
Dark Blood	Off
FOV Read	230 mm
FOV Phase	93.8 %
Phase Resolution	100 %
Motion Correction	None

Physio - PACE

Resp. Control	Off
Concatenations	2

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
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Sequence - Part 1

Sequence Name	qtir
Dimension	2D
RF Pulse Type	Normal
Gradient Mode	Normal
Flow Compensation	None
Bandwidth	188 Hz/Px
Echo Spacing	12.0 ms
Free Echo Spacing	On
Define	Turbo Factor
Turbo Factor	16
Echo Trains per Slice	9

Sequence - Part 2

Introduction	On
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Sequence - Part 2

Phase Correction	Automatic
Compensate T2 Decay	Off
Fast Mode	Off
WARP	Off
Red. EC Sensitivity	Off
Acoustic noise reduction	On
Reduce Motion Sens.	On
Motion Correction	None

Sequence - Assistant

SAR Assistant	Off
Allowed Delay	30 s

\\User\Head\Epilepsy\sola_xa61_Brain_developmental\resolve_4scan_trace_tra_p2_s2_192 *

TA: 2:17 min Coil Selection: Auto Voxel Size: 0.6×0.6×4.0 mm³ Acc:: 4 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	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
Graphic segment	Default
Inline Movie	Off

Routine

Slice Group	1
Slices	28
Distance Factor	30 %
Position	R1.2 P20.6 H9.7 mm
Orientation	T > S-9.1 > C6.8
Phase Encoding Dir.	A >> P
Phase Oversampling	0 %
FOV Read	220 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
TR	3090.0 ms
TE 1	67 ms
TE 2	112 ms
Concatenations	1
AutoAlign	---

Contrast - Common

TR	3090.0 ms
TE 1	67 ms
TE 2	112 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

Resolution - Common

FOV Read	220 mm
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Resolution - Common

FOV Phase	100.0 %
Slice Thickness	4.0 mm
Base Resolution	192
Phase Resolution	100 %
Interpolation	On

Resolution - Acceleration

Accel. Mode	SMS
Reference Scans	EPI/Separate
Acceleration Factor PE	2
Reference Lines PE	96
SMS Factor	2
FOV Shift Factor	3
Phase Partial Fourier	Off
Readout Partial Fourier	7/8
Readout Segments	7

Resolution - Filter

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

Geometry - Common

Slice Group	1
Slices	28
Distance Factor	30 %
Position	R1.2 P20.6 H9.7 mm
Orientation	T > S-9.1 > C6.8
Phase Encoding Dir.	A >> P
Phase Oversampling	0 %
FOV Read	220 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
TR	3090.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice Group	1
Position	R1.2 P20.6 H9.7 mm
Orientation	T > S-9.1 > C6.8
Phase Encoding Dir.	A >> P
AutoAlign	---
Initial Position	R1.2 P20.6 H9.7
R	1.2 mm
P	20.6 mm
H	9.7 mm
Initial Orientation	T > S

Geometry - AutoAlign

T > S	-9.10
> C	6.80
Initial Rotation	-1.70 deg

Geometry - Saturation

Special Saturation	None
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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	F >> H
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	R1.2 P20.6 H9.7 mm
Orientation	T > S-9.1 > C6.8
Rotation	-1.70 deg
A >> P	220 mm
R >> L	220 mm
F >> H	145 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.665012 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	3090.0 ms
Concatenations	1

Diff

Diffusion Mode	4-Scan Trace
Diff. Directions	4
Diffusion Scheme	Monopolar
Diff. Weightings	2
b-value 1	0 s/mm ²
b-value 2	1000 s/mm ²
Averages 1	1
Averages 2	1
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	50
Noise Masking	Off
Calculated Image	Off

Sequence - Part 1

Sequence Name	resolve
Dimension	2D
RF Pulse Type	Normal
Gradient Mode	Fast
Bandwidth	723 Hz/Px
Echo Spacing	0.34 ms
Optimization	Min. TE
EPI Factor	96

Sequence - Part 2

Introduction	On
Reacquisition Mode	On

Sequence - Assistant

SAR Assistant	Off
Optimization	Min. TE

\\User\Head\Epilepsy\sola_xa61_Brain_developmental\T1_3D sag *

TA: 4:08 min Coil Selection: Auto Voxel Size: 0.5×0.5×0.5 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	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
Graphic segment	Default
Inline Movie	Off

Routine

Slab Group	1
Slabs	1
Distance Factor	50 %
Position	R5.9 P27.2 H7.2 mm
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Slices per Slab	384
Phase Oversampling	0 %
Slice Oversampling	0.0 %
FOV Read	224 mm
FOV Phase	100.0 %
Slice Thickness	0.50 mm
TR	2020.0 ms
TE	3.22 ms
Averages	1
Concatenations	1
AutoAlign	---

Contrast - Common

TR	2020.0 ms
TE	3.22 ms
Magn. Preparation	Non-sel. IR
TI	1100 ms
Flip Angle	9 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1
Multiple Series	Each Measurement
Reordering	Linear

Resolution - Common

FOV Read	224 mm
FOV Phase	100.0 %
Slice Thickness	0.50 mm
Base Resolution	224
Phase Resolution	100 %
Slice Resolution	50 %
Interpolation	On

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	Integrated
Acceleration Factor PE	2
Reference Lines PE	24
Acceleration Factor 3D	1
Phase Partial Fourier	Off
Slice Partial Fourier	Off
Asymmetric Echo	Allowed
Elliptical Scanning	Off

Resolution - Filter

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

Geometry - Common

Slab Group	1
Slabs	1
Distance Factor	50 %
Position	R5.9 P27.2 H7.2 mm
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Slices per Slab	384
Phase Oversampling	0 %
Slice Oversampling	0.0 %
FOV Read	224 mm
FOV Phase	100.0 %
Slice Thickness	0.50 mm
TR	2020.0 ms
Multi-Slice Mode	Single Shot
Series	Ascending
Concatenations	1

Geometry - AutoAlign

Slab Group	1
Position	R5.9 P27.2 H7.2 mm
Orientation	Sagittal
Phase Encoding Dir.	A >> P
AutoAlign	---

Geometry - AutoAlign

Initial Position	R5.9 P27.2 H7.2
R	5.9 mm
P	27.2 mm
H	7.2 mm
Initial Orientation	Sagittal
Initial Rotation	0.00 deg

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

Set-n-Go Protocol	Off
Table Position	7 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	F >> H
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	R5.9 P27.2 H7.2 mm
Orientation	Sagittal
Rotation	0.00 deg
A >> P	224 mm
F >> H	224 mm
R >> L	192 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.665012 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	2020.0 ms
Concatenations	1

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	Non-sel. IR
TI	1100 ms
Dark Blood	Off
FOV Read	224 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
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
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Inline - MapIt

MapIt	None
Flip Angle	9 deg
Measurements	1
Contrasts	1
TE	3.22 ms
TR	2020.0 ms
Save Original Images	On

Sequence - Part 1

Sequence Name	tfl
Dimension	3D
Excitation	Non-sel.
RF Pulse Type	Normal
Gradient Mode	Whisper
Flow Compensation	None
Reordering	Linear
Bandwidth	130 Hz/Px
Echo Spacing	9.54 ms
Asymmetric Echo	Allowed
Turbo Factor	192

Sequence - Part 2

Introduction	Off
RF Spoiling	On
Incr. Gradient Spoiling	Off
Motion Correction	None

Sequence - Assistant

SAR Assistant	Off
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\\User\Head\Epilepsy\sola_xa61_Brain_developmental\t2_swi_wave4_2mm *

TA: 2:28 min Coil Selection: Auto Voxel Size: 0.9×0.9×2.0 mm³ Acc:: 4 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	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
Graphic segment	Default
Inline Movie	Off

Resolution - Common

FOV Read	230 mm
FOV Phase	93.8 %
Slice Thickness	2.00 mm
Base Resolution	256
Phase Resolution	80 %
Slice Resolution	75 %

Resolution - Acceleration

Acceleration Mode	Wave-CAIPI
Reference Scans	GRE/Separate
Acceleration Factor PE	2
Reference Lines PE	30
Acceleration Factor 3D	2
Reference Lines 3D	30

Routine

Slab Group	1
Slabs	1
Distance Factor	20 %
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	R >> L
Slices per Slab	80
Phase Oversampling	0 %
FOV Read	230 mm
FOV Phase	93.8 %
Slice Thickness	2.00 mm
TR	49.0 ms
TE	40.00 ms
Averages	1
Concatenations	1
AutoAlign	Head > Brain

Resolution - Filter

Distortion Correction	2D
Normalize	Prescan

Geometry - Common

Slab Group	1
Slabs	1
Distance Factor	20 %
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	R >> L
Slices per Slab	80
Phase Oversampling	0 %
FOV Read	230 mm
FOV Phase	93.8 %
Slice Thickness	2.00 mm
TR	49.0 ms
Multi-Slice Mode	Sequential
Series	Interleaved
Concatenations	1

Contrast - Common

TR	49.0 ms
TE	40.00 ms
Magn. Preparation	None
Flip Angle	15 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
SWI	On
Reconstruction	Magn./Phase

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1
Multiple Series	Each Measurement

Geometry - AutoAlign

Slab Group	1
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	R >> L
AutoAlign	Head > Brain
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Orientation	Transversal
Initial Rotation	90.00 deg

Geometry - Saturation

Saturation Mode	Standard
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	F >> H
Coil Combination	Sum of Squares
Matrix Optimization	Performance
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	216 mm
A >> P	230 mm
F >> H	160 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.665012 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Sequence - Part 1

Sequence Name	swiW_r
Dimension	3D
RF Pulse Type	Normal
Gradient Mode	Fast
Flow Compensation	On
Bandwidth	100 Hz/Px
Segments	1

Sequence - Part 2

Introduction	On
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Sequence - Assistant

SAR Assistant	Off
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\\User\Head\Epilepsy\Isola_xa61_Brain_developmental\t2_qswi3d_tra_p2_2.0mm brain *

TA: 4:17 min Coil Selection: Auto Voxel Size: 0.4×0.4×2.0 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	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
Graphic segment	Default
Inline Movie	Off

Routine

Slab Group	1
Slabs	1
Distance Factor	20 %
Position	Isocenter
Orientation	T > C9.1 > S1.8
Phase Encoding Dir.	R >> L
Slices per Slab	72
Phase Oversampling	0 %
Slice Oversampling	0.0 %
FOV Read	230 mm
FOV Phase	81.3 %
Slice Thickness	2.00 mm
TR	48.0 ms
TE	40.00 ms
Averages	1
Concatenations	1
AutoAlign	---

Contrast - Common

TR	48.0 ms
TE	40.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle	15 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
SWI	On
Reconstruction	Magn./Phase

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1
Multiple Series	Off

Resolution - Common

FOV Read	230 mm
FOV Phase	81.3 %
Slice Thickness	2.00 mm
Base Resolution	256
Phase Resolution	79 %
Slice Resolution	78 %
Interpolation	On

Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	Integrated
Acceleration Factor PE	2
Reference Lines PE	24
Acceleration Factor 3D	1
Phase Partial Fourier	Off
Slice Partial Fourier	Off
Asymmetric Echo	Off
Elliptical Scanning	Off

Resolution - Filter

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

Geometry - Common

Slab Group	1
Slabs	1
Distance Factor	20 %
Position	Isocenter
Orientation	T > C9.1 > S1.8
Phase Encoding Dir.	R >> L
Slices per Slab	72
Phase Oversampling	0 %
Slice Oversampling	0.0 %
FOV Read	230 mm
FOV Phase	81.3 %
Slice Thickness	2.00 mm
TR	48.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slab Group	1
Position	Isocenter
Orientation	T > C9.1 > S1.8
Phase Encoding Dir.	R >> L
AutoAlign	---

Geometry - AutoAlign

Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Orientation	T > C
T > C	9.10
> S	1.80
Initial Rotation	90.00 deg

Geometry - Saturation

Saturation Mode	Standard
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	F >> H
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	T > C9.1 > S1.8
Rotation	90.00 deg
R >> L	187 mm
A >> P	230 mm
F >> H	144 mm
Reset	Off

System - Tx/Rx

Frequency 1H	63.665012 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	48.0 ms
Segments	1
Concatenations	1

Physio - Cardiac

Tagging	None
Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	230 mm
FOV Phase	81.3 %
Phase Resolution	79 %

Physio - PACE

Resp. Control	Off
Concatenations	1

Inline - Liver

Liver Registration	Off
Save Original Images	On

Inline - Subtraction

Subtract	Off
Measurements	1
StdDev	Off
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 - Soft Tissue

Wash-in	Off
Wash-out	Off
TTP	Off
PEI	Off
MIP Time	Off
Measurements	1

Inline - Composing

Inline Composing	Off
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Inline - MapIt

MapIt	None
Flip Angle	15 deg
Measurements	1

Inline - MapIt

Contrasts	1
TE	40.00 ms
TR	48.0 ms
Save Original Images	On

Sequence - Part 1

Sequence Name	qswi_r
Dimension	3D
Excitation	Slab-sel.
RF Pulse Type	Fast
Gradient Mode	Fast
Flow Compensation	On
Bandwidth	80 Hz/Px
Asymmetric Echo	Off
Segments	1

Sequence - Part 2

Introduction	On
RF Spoiling	On
Acoustic noise reduction	On

Sequence - Assistant

SAR Assistant	Off
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