

\\USER\Brain\Project\SO_AC_049[Allen Cheong]64\MRS_WATER REFERENCE_TR1500

TA: 30 sec Coil Selection: Auto Vol: 27×27×27 mm³ Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	On
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
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

Routine

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
Vol R >> L	27 mm
Vol A >> P	27 mm
Vol F >> H	27 mm
TR	1500.0 ms
TE	68.00 ms
Averages	8

Contrast - Common

TR	1500.0 ms
TE	68.00 ms
Flip Angle	90 deg
Preparation Scans	4
Averages	8
Water Suppression	RF Off
Water Suppr. BW	35 Hz
Edit Frequency	1.90 ppm
Edit Bandwidth	70 Hz
Edit Mirror Frequency	7.50 ppm

Resolution - Common

Vector Size	2048
Normalize	Prescan

Geometry - Common

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
Vol A >> P	27 mm
Vol R >> L	27 mm
Vol F >> H	27 mm
Saturation Region	1
Thickness	20.00 mm
Position	L30.0 P0.0 H0.0 mm
Orientation	Sagittal
Sat. Delta Freq.	-3.40 ppm
Saturation Region	2
Thickness	20.00 mm
Position	L30.0 P0.0 H0.0 mm
Orientation	Sagittal
Sat. Delta Freq.	-3.40 ppm
Saturation Region	3
Thickness	20.00 mm

Geometry - Common

Position	L30.0 P0.0 H0.0 mm
Orientation	Sagittal
Sat. Delta Freq.	-3.40 ppm
Saturation Region	4
Thickness	20.00 mm
Position	L30.0 P0.0 H0.0 mm
Orientation	Sagittal
Sat. Delta Freq.	-3.40 ppm
Saturation Region	5
Thickness	20.00 mm
Position	L30.0 P0.0 H0.0 mm
Orientation	Sagittal
Sat. Delta Freq.	-3.40 ppm
Saturation Region	6
Thickness	20.00 mm
Position	L30.0 P0.0 H0.0 mm
Orientation	Sagittal
Sat. Delta Freq.	-3.40 ppm
Saturation Region	7
Thickness	20.00 mm
Position	L30.0 P0.0 H0.0 mm
Orientation	Sagittal
Sat. Delta Freq.	-3.40 ppm

Geometry - AutoAlign

AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Orientation	Transversal
Initial Rotation	0.00 deg

System - Miscellaneous

Coil Selection	Auto Coil Select
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Advanced
B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	When Changed
Assume Silicone	Off
Adj. Water Suppr.	On

System - Adjust Volume

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
A >> P	27 mm
R >> L	27 mm
F >> H	27 mm
Reset	Off

System - pTx

B1 Shim	TrueForm
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System - Tx/Rx

Frequency 1H	123.258198 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Sequence - Common

Sequence Name	svs_edit
Preparation Scans	4
Delta Frequency	0.00 ppm
Ref. Scan Mode	Off
Phase Cycling	Eight Step
Bandwidth	2000 Hz
Acquisition Duration	1024 ms
Remove Oversampling	On
Freq. Corr. Accumulation	On

\\USER\Brain\Project\SO_AC_049[Allen Cheong]64\MRS_TR1500

TA: 8:54 min Coil Selection: Auto Vol: 27×27×27 mm³ 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
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

Routine

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
Vol R >> L	27 mm
Vol A >> P	27 mm
Vol F >> H	27 mm
TR	1500.0 ms
TE	68.00 ms
Averages	176

Contrast - Common

TR	1500.0 ms
TE	68.00 ms
Flip Angle	90 deg
Preparation Scans	4
Averages	176
Water Suppression	Water Saturation
Water Suppr. BW	35 Hz
Edit Frequency	1.90 ppm
Edit Bandwidth	47 Hz
Edit Mirror Frequency	7.50 ppm

Resolution - Common

Vector Size	2048
Normalize	Prescan

Geometry - Common

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
Vol A >> P	27 mm
Vol R >> L	27 mm
Vol F >> H	27 mm
Saturation Region	1
Thickness	20.00 mm
Position	L30.0 P0.0 H0.0 mm
Orientation	Sagittal
Sat. Delta Freq.	-3.40 ppm
Saturation Region	2
Thickness	20.00 mm
Position	L30.0 P0.0 H0.0 mm
Orientation	Sagittal
Sat. Delta Freq.	-3.40 ppm
Saturation Region	3
Thickness	20.00 mm

Geometry - Common

Position	L30.0 P0.0 H0.0 mm
Orientation	Sagittal
Sat. Delta Freq.	-3.40 ppm
Saturation Region	4
Thickness	20.00 mm
Position	L30.0 P0.0 H0.0 mm
Orientation	Sagittal
Sat. Delta Freq.	-3.40 ppm
Saturation Region	5
Thickness	20.00 mm
Position	L30.0 P0.0 H0.0 mm
Orientation	Sagittal
Sat. Delta Freq.	-3.40 ppm
Saturation Region	6
Thickness	20.00 mm
Position	L30.0 P0.0 H0.0 mm
Orientation	Sagittal
Sat. Delta Freq.	-3.40 ppm
Saturation Region	7
Thickness	20.00 mm
Position	L30.0 P0.0 H0.0 mm
Orientation	Sagittal
Sat. Delta Freq.	-3.40 ppm

Geometry - AutoAlign

AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Orientation	Transversal
Initial Rotation	0.00 deg

System - Miscellaneous

Coil Selection	Auto Coil Select
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Advanced
B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	When Changed
Assume Silicone	Off
Adj. Water Suppr.	On

System - Adjust Volume

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
A >> P	27 mm
R >> L	27 mm
F >> H	27 mm
Reset	Off

System - pTx

B1 Shim	TrueForm
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System - Tx/Rx

Frequency 1H	123.258198 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Sequence - Common

Sequence Name	svs_edit
Preparation Scans	4
Delta Frequency	-1.70 ppm
Ref. Scan Mode	Off
Phase Cycling	Eight Step
Bandwidth	2000 Hz
Acquisition Duration	1024 ms
Remove Oversampling	On
Freq. Corr. Accumulation	On

\\USER\Brain\Project\SO_AC_049[Allen Cheong]64\svs_se_30_WATER REFERENCE

TA: 39 sec Coil Selection: Auto Vol: 27×27×27 mm³ 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
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

Routine

Position	L0.4 P51.3 F13.2 mm
Orientation	Transversal
Rotation	0.00 deg
Vol R >> L	27 mm
Vol A >> P	27 mm
Vol F >> H	27 mm
TR	3000.0 ms
TE	30.00 ms
Averages	8

Contrast - Common

TR	3000.0 ms
TE	30.00 ms
Flip Angle	90 deg
Preparation Scans	4
Averages	8
Water Suppression	RF Off
Water Suppr. BW	50 Hz
Spectral Suppr.	None

Resolution - Common

Vector Size	1024
Normalize	Prescan

Geometry - Common

Position	L0.4 P51.3 F13.2 mm
Orientation	Transversal
Rotation	0.00 deg
Vol A >> P	27 mm
Vol R >> L	27 mm
Vol F >> H	27 mm
Saturation Region	1
Thickness	20.00 mm
Position	L30.4 P51.3 F13.2 mm
Orientation	Sagittal
Sat. Delta Frequ.	-3.40 ppm
Saturation Region	2
Thickness	20.00 mm
Position	L30.4 P51.3 F13.2 mm
Orientation	Sagittal
Sat. Delta Frequ.	-3.40 ppm
Saturation Region	3
Thickness	20.00 mm
Position	L30.4 P51.3 F13.2 mm
Orientation	Sagittal

Geometry - Common

Sat. Delta Frequ.	-3.40 ppm
Saturation Region	4
Thickness	20.00 mm
Position	L30.4 P51.3 F13.2 mm
Orientation	Sagittal
Sat. Delta Frequ.	-3.40 ppm
Saturation Region	5
Thickness	20.00 mm
Position	L30.4 P51.3 F13.2 mm
Orientation	Sagittal
Sat. Delta Frequ.	-3.40 ppm
Saturation Region	6
Thickness	20.00 mm
Position	L30.4 P51.3 F13.2 mm
Orientation	Sagittal
Sat. Delta Frequ.	-3.40 ppm
Saturation Region	7
Thickness	20.00 mm
Position	L30.4 P51.3 F13.2 mm
Orientation	Sagittal
Sat. Delta Frequ.	-3.40 ppm

Geometry - AutoAlign

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**System - Miscellaneous**

Coil Selection	Auto Coil Select
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Brain
B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	When Changed
Assume Silicone	Off
Adj. Water Suppr.	On

System - Adjust Volume

Position	L0.4 P51.3 F13.2 mm
Orientation	Transversal
Rotation	0.00 deg
A >> P	27 mm
R >> L	27 mm
F >> H	27 mm
Reset	Off

System - pTx

B1 Shim	TrueForm
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System - Tx/Rx

Frequency 1H	123.258198 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	3000.0 ms

Physio - PACE

Resp. Control	Off
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Sequence - Common

Sequence Name	svs_se
Preparation Scans	4
Delta Frequency	0.00 ppm
Ref. Scan Mode	Inline Correction
No. of Ref. scans	1
Measurements	1
Phase Cycling	Auto
Save Uncombined	Off
Bandwidth	1200 Hz
Acquisition Duration	853 ms
Remove Oversampling	On
Freq. Corr. Accumulation	Off

\\USER\Brain\Project\SO_AC_049[Allen Cheong]64\svs_se_30

TA: 6:39 min Coil Selection: Auto Vol: 27×27×27 mm³ 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
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

Routine

Position	L0.4 P51.3 F13.2 mm
Orientation	Transversal
Rotation	0.00 deg
Vol R >> L	27 mm
Vol A >> P	27 mm
Vol F >> H	27 mm
TR	3000.0 ms
TE	30.00 ms
Averages	128

Contrast - Common

TR	3000.0 ms
TE	30.00 ms
Flip Angle	90 deg
Preparation Scans	4
Averages	128
Water Suppression	Water Saturation
Water Suppr. BW	50 Hz
Spectral Suppr.	None

Resolution - Common

Vector Size	1024
Normalize	Prescan

Geometry - Common

Position	L0.4 P51.3 F13.2 mm
Orientation	Transversal
Rotation	0.00 deg
Vol A >> P	27 mm
Vol R >> L	27 mm
Vol F >> H	27 mm
Saturation Region	1
Thickness	20.00 mm
Position	L30.4 P51.3 F13.2 mm
Orientation	Sagittal
Sat. Delta Frequ.	-3.40 ppm
Saturation Region	2
Thickness	20.00 mm
Position	L30.4 P51.3 F13.2 mm
Orientation	Sagittal
Sat. Delta Frequ.	-3.40 ppm
Saturation Region	3
Thickness	20.00 mm
Position	L30.4 P51.3 F13.2 mm
Orientation	Sagittal

Geometry - Common

Sat. Delta Frequ.	-3.40 ppm
Saturation Region	4
Thickness	20.00 mm
Position	L30.4 P51.3 F13.2 mm
Orientation	Sagittal
Sat. Delta Frequ.	-3.40 ppm
Saturation Region	5
Thickness	20.00 mm
Position	L30.4 P51.3 F13.2 mm
Orientation	Sagittal
Sat. Delta Frequ.	-3.40 ppm
Saturation Region	6
Thickness	20.00 mm
Position	L30.4 P51.3 F13.2 mm
Orientation	Sagittal
Sat. Delta Frequ.	-3.40 ppm
Saturation Region	7
Thickness	20.00 mm
Position	L30.4 P51.3 F13.2 mm
Orientation	Sagittal
Sat. Delta Frequ.	-3.40 ppm

Geometry - AutoAlign

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**System - Miscellaneous**

Coil Selection	Auto Coil Select
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Brain
B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	When Changed
Assume Silicone	Off
Adj. Water Suppr.	On

System - Adjust Volume

Position	L0.4 P51.3 F13.2 mm
Orientation	Transversal
Rotation	0.00 deg
A >> P	27 mm
R >> L	27 mm
F >> H	27 mm
Reset	Off

System - pTx

B1 Shim	TrueForm
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System - Tx/Rx

Frequency 1H	123.258198 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	3000.0 ms

Physio - PACE

Resp. Control	Off
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Sequence - Common

Sequence Name	svs_se
Preparation Scans	4
Delta Frequency	-2.30 ppm
Ref. Scan Mode	Inline Correction
No. of Ref. scans	1
Measurements	1
Phase Cycling	Auto
Save Uncombined	Off
Bandwidth	1200 Hz
Acquisition Duration	853 ms
Remove Oversampling	On
Freq. Corr. Accumulation	Off