

Date _____ Magnet _____

Spectroscopy

QA Braino phantom
1.5T: GE Head coil
3T: fMRI coil
 Weight = 100 lb

Phantom on head holder & head sponge
 Phantom centered L/R, A/P, S/I
 Angle sponge on each side of phantom
 Black tape thermometer facing out

Series #1

Patient Position
 Patient position: **Supine**
 Patient entry: **Head first**
 Coil: **G.E. Head**

Imaging Parameters
 Plane: **Axial** Mode: **2D**
 Pulse sequence: **FSE**
 Imaging options: **Fast**
 PSD name (Research): **None**

Scan Timing
 # of echoes: **one** TE: **85**
 TR: **3000** ETL: **8**

Scanning Range
 FOV (Field of view): **24cm**
 Slice thickness: **5mm**
 Spacing: **5mm** # Slices: **5**
 Start: **I20** End: **S20**
 FOV center: P/A = **0** L/R = **0**

Acquisition Timing
 Freq: **256** Phase: **256**
 NEX: **1** Phase FOV: **1**
 Frequency Direction: **A/P**
 Auto Center Frequency: **Water**
 Autoshim = **on** Phase Correct = **off**

User CVs
 RF2 Scale: **1** Flip RF2: **180**

Imaging time: **01:42**

Manual Gradient Shim: **N**

Autoprescan
 R1: _____ R2: _____
 TG: _____ CF: _____

SNR measurements @ center slice L/R0
 Mean (center): _____
 Std Dev. (outside): _____
 SNR: _____

Series #2

Imaging Parameters
 Plane: **Axial**
 Mode: **MRS**
 Pulse sequence: **Probe-p**
 Imaging options: **EDR**

Scan Timing
 # of echoes: **1**
 TE: **30**
 TR: **2000**

Scanning Range
 FOV (Field of view): **24cm**
 Start: **S10** End: **I10**
 R10 **L10**
 A10 **P10**

Acquisition Timing
 Freq: **n/a** Phase: **n/a**
 NEX: **8** Freq. Dir.: **A/P**
 Auto CF: **W** Autoshim = **on**

User CV
 Scan Mode: **1** Total # scans: **32**
 (Steady state: **1**)
 AWS opt.: **0** Spatial sat: **0**
 ROI Edge Sat Mask: **7**

Modify CV
tempC = 19

Imaging time: **02:36**

Manual Gradient Shim: **N**

Autoprescan
 R1: _____ R2: _____
 TG: _____ CF: _____
 Line Width: _____ Flip angle: _____
 Suppression Level: _____

Gradient Shimming (Manual Prescan):
 X _____ Y _____ Z _____