

| MR Pulse Sequence Validation Form - Developer | | | | | | | |
|---|------------------------|------|----------------------|--------|-----------------------|----------|--|
| Sequence name | | | | | Programming platform | Platform | |
| Description | | | | | Author(s) | | |
| | | | | | Contact info | | |
| | | | | | Date | | |
| Part 1: Sequence Information | | | | | | | |
| Sequence Support Checklist | | | | | Sequence Files List | | |
| Steps | Doc. | Code | Raw data | Images | Sequence Scripts | | |
| Simulation | | | | | Sequence Waveforms | | |
| Acquisition | | | | | | | |
| Reconstruction | | | | | Usage Documentation | | |
| Post-processing | | | | | Others (specify): | | |
| Safety | | | | | | | |
| Part 2: Simulation and Safety Checks | | | | | | | |
| Simulation Platform | Platform | | | | Simulation Files List | | |
| Parameters | N | | #spins | | Documentation | | |
| | Dims | | Type | | Numerical Phantom | | |
| | Other parameters: | | | | Sequence Files | | |
| Simulated Image | | | | | B0 Map | | |
| | | | | | BI Map (Tx/Rx) | | |
| | | | | | Raw Data | | |
| | | | | | Reconstructed Data | | |
| | | | | | Safety metrics | | |
| | | | | | Others (specify): | | |
| Safety Checks | Simulated Value [unit] | | Scanner Value [unit] | | Method | | |
| SAR | | | | | | | |
| PNS | | | | | | | |
| Other (specify): | | | | | | | |

| Part 3: Acquisition | | | | | | | | | | | |
|--|--|----------------------|--|---------|--|------------|--|--------------------------------------|--|---------------|--|
| Scanner | | | | | | | | Acquisition Files List | | | |
| RF Coils | | Tx | | #ch | | Rx | | #ch | | Documentation | |
| Subject | | | | | | | | Sequence Files | | | |
| Sequence Parameters | | | | | | | | | | Raw Data | |
| Geometry | | N | | Thk | | Slice dir. | | | | | |
| | | FOV | | #slices | | Read dir. | | | | | |
| Contrast | | TR | | TE | | FA | | Others (specify): | | | |
| Others (specify): | | | | | | | | | | | |
| Part 4: Reconstruction | | | | | | | | | | | |
| Sampling Type | | | | | | | | Reconstruction Files List | | | |
| Reconstruction Method | | | | | | | | Documentation | | | |
| | | | | | | | | Scripts | | | |
| Sample Images & Quality Metrics | | | | | | | | k-space trajectory | | | |
| | | | | | | | | Slice / Phase Reordering | | | |
| | | | | | | | | Reconstructed data | | | |
| | | | | | | | | Image files | | | |
| | | | | | | | | Image quality metrics | | | |
| | | | | | | | | Others (specify): | | | |
| | | | | | | | | | | | |
| SNRdiff | | PSNR | | SSIM | | Other | | | | | |
| Part 5: Quantitative Mapping and Post-Processing | | | | | | | | | | | |
| Map Type | | Specify for "other": | | | | | | Mapping & post-processing Files List | | | |
| Mapping Algorithm | | | | | | | | Documentation | | | |
| | | | | | | | | Mapping Scripts | | | |
| Post-Processing Steps | | | | | | | | Post-Processing Scripts | | | |
| Quantitative Maps & Evaluation | | | | | | | | Map data | | | |
| | | | | | | | | Mapping accuracy metrics | | | |
| | | | | | | | | Others (specify): | | | |
| | | | | | | | | | | | |
| Map accuracy | | | | | | | | | | | |