## Appendix A. Model Parameter Files and Fitting Equations

Table A.1 EPGAzz :: azz\_fatmuscle\_epg\_model\_params.json

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Value | Min | Max | Vary |
| A\_f | 0.2 | 0 | 2 | True |
| A\_m | 0.8 | 0 | 2 | True |
| T1\_m | 1400.0 | 0 | 4000 | False |
| T1\_f | 365.0 | 0 | 1000 | False |
| t2\_m | 40.0 | 0 | 100 | True |
| c\_l | 0.6 | 0 | 2 | False |
| c\_s | 0.5 | 0 | 2.0 | False |
| t2\_fl | 250.0 | 0 | 2000 | False |
| t2\_fs | 50.0 | 0 | 100 | False |
| B1 | 1.0 | 0 | 2 | True |
| echo | 10.0 | 0 | 30 | False |

Table A.2 fatEPG2 :: two\_fat\_epg2\_model\_params.json

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Value | Min | Max | Vary |
| A\_f | 1.0 | 0 | 2 | False |
| A\_m | 0.0 | 0 | 2 | False |
| t2\_m | 40.0 | 0 | 100 | False |
| T1\_m | 1400.0 | 0 | 4000 | False |
| T1\_f | 365.0 | 0 | 1000 | False |
| c\_l | 0.2 | 0 | 2 | True |
| c\_s | 0.8 | 0 | 2.0 | True |
| t2\_fl | 500.0 | 0 | 2000 | True |
| t2\_fs | 100.0 | 0 | 2000 | True |
| B1 | 1.0 | 0 | 2 | True |
| echo | 10.0 | 0 | 30 | False |

Table A.3 fatEPG1 :: one\_fat\_epg1\_model\_params.json

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Value | Min | Max | Vary |
| A\_f | 1.0 | 0 | 2.0 | False |
| A\_m | 0.0 | 0 | 2.0 | False |
| t2\_m | 40.0 | 0 | 100 | False |
| T1\_m | 1400.0 | 0 | 4000 | False |
| T1\_f | 365.0 | 0 | 1000 | False |
| c\_l | 1.0 | 0 | 2.0 | True |
| c\_s | 0.0 | 0 | 2.0 | False |
| t2\_fl | 250.0 | 0 | 2000 | True |
| t2\_fs | 50.0 | 0 | 100 | False |
| B1 | 1.0 | 0 | 2 | True |
| echo | 10.0 | 0 | 30 | False |

Table A.4 muscleEPG1 :: one\_fatmuscle\_epg1\_model\_params.json

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Value | Min | Max | Vary |
| A\_f | 0.2 | 0 | 2 | True |
| A\_m | 0.8 | 0 | 2 | True |
| T1\_m | 1400.0 | 0 | 4000 | False |
| T1\_f | 365.0 | 0 | 1000 | False |
| t2\_m | 40.0 | 0 | 100 | True |
| c\_l | 1.0 | 0 | 2 | False |
| c\_s | 0.0 | 0 | 2.0 | False |
| t2\_fl | 140.0 | 0 | 2000 | False |
| t2\_fs | 50.0 | 0 | 100 | False |
| B1 | 1.0 | 0 | 2 | True |
| echo | 10.0 | 0 | 30 | False |

Table A.5 muscleEPG2 :: two\_fatmuscle\_epg2\_model\_params.json

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Value | Min | Max | Vary |
| A\_f | 0.2 | 0 | 2 | True |
| A\_m | 0.8 | 0 | 2 | True |
| T1\_m | 1400.0 | 0 | 4000 | False |
| T1\_f | 365.0 | 0 | 1000 | False |
| t2\_m | 40.0 | 0 | 100 | True |
| c\_l | 1.0 | 0 | 2 | False |
| c\_s | 0.0 | 0 | 2.0 | False |
| t2\_fl | 250.0 | 0 | 2000 | False |
| t2\_fs | 50.0 | 0 | 100 | False |
| B1 | 1.0 | 0 | 2 | True |
| echo | 10.0 | 0 | 30 | False |

Table A.6 phantomEPG1 :: oneParamEPGphantom\_model\_params.json

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Value | Min | Max | Vary |
| A\_f | 0.0 | 0 | 2.0 | False |
| A\_m | 1.5 | 0 | 1.75 | True |
| t2\_m | 100.0 | 0 | 1000 | True |
| T1\_m | 1400.0 | 0 | 4000 | False |
| T1\_f | 0.0 | 0 | 1000 | False |
| c\_l | 0.0 | 0 | 2.0 | False |
| c\_s | 0.0 | 0 | 2.0 | False |
| t2\_fl | 0.0 | 0 | 2000 | False |
| t2\_fs | 0.0 | 0 | 100 | False |
| B1 | 0.8 | 0.5 | 1.1 | True |
| echo | 8.0 | 0 | 30 | False |