500 HCN RT z-axis Probe Default Parameters

- **Tuning for Ubiquitin**
  - ^{1}H ~ 60
  - ^{13}C ~ 60
  - ^{15}N ~ 60
- **Offsets**
  - tof ~ 176.8 (~4.77 ppm at 25 deg C)
  - dof (^{13}C) ~ 9607 (174 ppm)
  - dof2 (^{15}N) ~ 1051 (~119 ppm)
- **Pulse widths**
  - ^{1}H: pw =8.1 at tpwr = 58
  - ^{13}C: pwC = 13.1 at pwClvl = 61
  - ^{15}N: pwN = 34 at pwNlvl = 59
  - ^{2}D: H2pw90(ch4) = 146.25 at 47 dB
- **Deuterium decoupling using channel 4 (assumes garp1 or waltz with pwD90 of 250 usec)**
  - H2dpwr3D = 43 dB
  - H2dmf3D = 4000
  - H2dseq3D = 'garp1'
  - H2dres3D = 1
- **Amplifier compressions**
  - compH = 0.96
  - compC = 0.96
  - compN = 0.085
- **Maximum Power Limits (set in ghn_co)**
  - Channel 1: 59 dB
  - Channel 2: 61 dB
  - Channel 3: 60 dB
  - Channel 4: 50 dB
- **BioPack Power Limits (set in ghn_co)**
  - BPpwrlimits = 0
- **Gradients**
  - gzlvl1 = 18000, gzlvl2 = 18270 (ratio 0.985)
- Lock level values for lineshape sample
  - Lock power = 20
  - Lock gain = 20
  - Lock level when shimmed well > 90
- **Gain**

- Gain values should always be > 18. Values between 20 and 25 are typically good values.