Kyma Analysis Report

Date: 24. feb 2020 Name: 1991b Temperature: 23.0

Filename: 1991b-TPF-UFCM 20200224

 $Waves\ analysed: Bz117, Bx117, Izmes41, Ixmes41\\ Gap\ [mm]: 200$

Phase [mm]: 10 Hall Z [mm]: -1 Peak Field Bx: 0.01717 T RMS Phase Error: 6.54 deg

Taper [mm]: 0 Hall X [mm]: 5 Delta Bx/Bx: 6.7 % Fund. En. (B2E) : 3512.5 eV = 0.4 nmPeak Field Bz: 0.21920 T Radiation wavelength (lin. fit): 0.4 nm

Peaks used: 104

Undulator Period: 22.01+-0.10 mm Delta Bz/Bz: 10.6 % e-beam energy: 3 GeV Bx Taper: 1.834 G/m Bz Taper: -5.776 G/m

Krms: 0.320

V Dipole: 2.5 G cm Iz(coil): 2.8 G cm Pred. C.C. currents Iz(BzC): 2.8 Gcm Iz(Bz): 6.5 G cm V Quadrupole: 12.5 G I1: 0.2476 A V Sextupole: -121.1 G/cm Ix(coil): 3.1 G cm I2: -0.8914 A

Ix(BxC) : 3.1 Gcm Ix(Bx) : 168.5 G cm

H Dipole: 4.8 G cm $IIx(sBx) : 0.0799 \text{ G m}^2$ I3: -0.6559 A H Quadrupole: 97.5 G IIz(sBz): -0.1718 G m^2 I4: 0.9343 A

H Sextupole: 204.8 G/cm BzTrj RMS dev.: 0.1 um BxTrj RMS dev.: 0.4 um

