Kyma Analysis Report

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

Filename: 1991b-TPF-UFCM 20200224

Waves analysed : Bz329,Bx329,Izmes33,Ixmes33 Gap [mm] : 200

Phase [mm]: 8 Hall Z [mm]: -1 Peak Field Bx: 0.09181 T RMS Phase Error: 6.40 deg

Taper [mm]: 0 Hall X [mm]: 12 Delta Bx/Bx : 3.6 % Fund. En. (B2E) : 3138.7 eV = 0.4 nmPeak Field Bz: 0.31224 T Radiation wavelength (lin. fit): 0.4 nm

Peaks used: 104 Bz Taper: -11.726 G/m

Undulator Period: 22.01+-0.09 mm Delta Bz/Bz: 7.3 % e-beam energy: 3 GeV Bx Taper: -3.983 G/m

Krms: 0.473 Iz(coil): 1.8 G cm

V Dipole: 3.7 G cm Pred. C.C. currents V Quadrupole: 206.0 G Iz(BzC): 1.8 Gcm Iz(Bz): -25.4 G cm I1: -1.6980 A V Sextupole: 520.4 G/cm Ix(coil): 21.8 G cm I2: -1.9064 A

Ix(BxC): 21.8 Gcm Ix(Bx): 456.4 G cm

H Dipole: -1.9 G cm $IIx(sBx) : 0.4021 \text{ G m}^2$ I3: 0.2715 A H Quadrupole: -269.0 G IIz(sBz): -0.0442 G m^2 I4: 0.7652 A

H Sextupole: 980.2 G/cm BzTrj RMS dev.: 0.6 um BxTrj RMS dev.: 0.4 um

