Kyma Analysis Report

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

Filename: 1991b-TPF-UFCM 20200224

Waves analysed : Bz203,Bx203,Izmes23,Ixmes23 Gap [mm] : 200

Phase [mm]: 5 Hall Z [mm]: 1 Peak Field Bx: 0.01229 T RMS Phase Error: 5.05 deg

Taper [mm]: 0 Hall X [mm]: -5 Delta Bx/Bx: 7.2 % Fund. En. (B2E) : 2391.6 eV = 0.5 nmPeak Field Bz: 0.54428 T Radiation wavelength (lin. fit): 0.5 nm

Peaks used: 103

Undulator Period: 22.00+-0.03 mm Delta Bz/Bz: 1.4 % e-beam energy: 3 GeV Bx Taper: 3.885 G/m Bz Taper: -35.399 G/m

Krms: 0.791

V Dipole: -3.4 G cm Iz(coil): -3.5 G cm Pred. C.C. currents V Quadrupole: 17.4 G Iz(BzC): -3.5 Gcm Iz(Bz): 20.0 G cm I1: 1.0230 A V Sextupole: -44.5 G/cm Ix(coil): 0.7 G cm I2: -1.5241 A

Ix(BxC) : 0.7 Gcm Ix(Bx) : 882.7 G cm

H Dipole: 5.6 G cm $IIx(sBx) : 0.0798 \text{ G m}^2$ I3: -0.7776 A H Quadrupole: -11.8 G IIz(sBz): -0.2846 G m^2 I4: 1.1971 A

H Sextupole: 120.6 G/cm BzTrj RMS dev.: 0.1 um BxTrj RMS dev.: 0.1 um

