**XCS Parameter Table (Run 22 Standard Configuration #1)**

| **Parameter Table for the XCS Standard Configuration** | | |
| --- | --- | --- |
| **Sample & sample delivery** | **Sample(s) description (name and concentration)** |  |
| **Round jet diameters [20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250, 300, 500] µm** |  |
| **Flat sheet jet thickness [19, 25, 38, 50, 75, 100, 125, 175, 188, 250] µm** |  |
| **Scattering** | **[yes/no]** |  |
| **Maximum Q [Å-1]** |  |
| **X-ray Emission Spectroscopy** | **[yes/no]** |  |
| **Which Emission line(S) :**  **Mn : Kß1,3, Kß2,5 and K**  **Fe : Kß1,3 and Kß2,5**  **Co : Kß1,3 and Kß2,5**  **Ni : Kß1,3 and Kß2,5**  **Ti : Kß1,3 and Kß2,5**  **V : Kα.**  **Other (contact XCS staff)** |  |
| **X-ray Absorption Spectroscopy** | **[yes/no]** |  |
| **XANES spectrum 3d TM element:** |  |
| **X-ray Parameters** | **X-ray Energy(ies)** |  |
| **X-ray Pulse Duration** | **Fixed to ~40fs** |
| **Monochromatic or Pink** |  |
| **X-ray Focal spot size within 3 to 500 µm** |  |
| **Optical beam parameters** | **Wavelength [nm]** |  |
| **Pulse duration [fs]** |  |
| **Maximum Pulse Energy [µJ]** |  |
| **Focal size (FWHM) [µm]** |  |
| **Polarization requirements?** |  |
| **Minimum fluence on sample [mJ/cm2]** |  |
| **Geometry** | **Collinear** |
| **X-ray Beam Time** | **Number of shifts [1 shift = 12 hrs]** |  |
| **Any additional comments** | |  |