Report

Created on: 03/09/2024 14:43:44
Operator: LSCnM2020_pcRaman

File

File name: D:\LSCnM_UFSC\dados_LDRX_UFSC\Padroes\Si_VM\Si_FDS1b2_mask10_15ago2
Checksum: bd98bfa2e356b1d6bd0d31487e53d502
File size (bytes): 106344

Time stamp

Started: 15/08/2024 07:17:00
Finished: 15/08/2024 09:06:02
Total time (h:m:s): 01:49:02

Comment

Configuration=PoXcelSpinner1, Owner=Carlos, Creation date=14/11/2019 15:05:29
Goniometer=PW3050/60 (Theta/Theta); Minimum step size 2Theta:0,001; Minimum step size Ome
Sample stage=Reflection-Transmission Spinner PW3064/60; Minimum step size Phi:0,1
Diffractometer system=XPERT-PRO
Measurement program=MedePadroes, Owner=Carlos, Creation date=30/3/2022 15:20:44
Batch program=mede Padroes, Owner=Carlos, Creation date=30/3/2022 15:23:09

Status

Completed

Sample

Sample type: To be analyzed
Sample ID: Si NIST
Sample name: na cav do ZB gde coM faca 1a div e spun 4s
Prepared by: Grupo LSCnM

Measurement type

Repeated scan (3 times)

Used wavelength

Intended wavelength type:	Kα
$Kα_1$ (Å):	1,540598
$Kα_2$ (Å):	1,544426
$Kα_2/Kα_1$ intensity ratio:	0,50
Kα (Å):	1,541874
Kβ (Å):	1,392250

Incident beam path

Radius (mm): 240,0

X-ray tube

Name:	PW3373/00 Cu LFF DK423121
Anode material:	Cu
Voltage (kV):	45
Current (mA):	40

Focus

Focus type:	Line
Length (mm):	12,0
width (mm):	0,4
Take-off angle (°):	6,0

Soller slit

Name:	Soller 0.04 rad.
Opening (rad.):	0,04

Mask

Name:	Inc. Mask Fixed 10 mm (MPD/MRD)

Width (mm): 6,60

Anti-scatter slit

Name: Slit Fixed 1°

Type: Fixed

Height (mm): 1,52

Divergence slit

Name: Slit Fixed 1/2°

Distance to sample (mm): 140

Type: Fixed

Height (mm): 0,76

Sample movement

Movement type: Spinning

Rotation time (s): 4,0

Diffracted beam path

Radius (mm): 240,0

Anti-scatter slit

Name: AS Slit 5.0 mm (X'Celerator)

Type: Fixed

Height (mm): 5,00

Soller slit

Name: Large Soller 0.04 rad.

Opening (rad.): 0,04

Filter

Name: Nickel

Thickness (mm):	0,020
Material:	Ni

Detector

Name:	X'Celerator
Type:	RTMS detector
PHD - Lower level (%):	41,5
PHD - Upper level (%):	98,0
Mode:	Scanning
Active length (°):	2,122

Source

Created by:	Administrador
Application SW:	X'Pert Data Collector vs. 2.2c
Instrument control SW:	XPERT-PRO vs. 2.2D
Instrument ID:	0000000011026311

Comment

medida de Padroes (Si, Al2O3, CeO2, Y2O3)

Sample mode

Reflection

Scan 1

Start time stamp:	15/08/2024 07:17:00
End time stamp:	15/08/2024 07:53:14
Scan axis:	Gonio
Scan range (°):	15,0000 - 90,0002

Step size (°):	0,0084
No. of points:	8976
Scan mode:	Continuous
Phi (°):	42,3
Counting time (s):	29,845

Scan 2

Start time stamp:	15/08/2024 07:53:22
End time stamp:	15/08/2024 08:29:38
Scan axis:	Gonio
Scan range (°):	15,0000 - 90,0002
Step size (°):	0,0084
No. of points:	8976
Scan mode:	Continuous
Phi (°):	42,3
Counting time (s):	29,845

Scan 3

Start time stamp:	15/08/2024 08:29:47
End time stamp:	15/08/2024 09:06:02
Scan axis:	Gonio
Scan range (°):	15,0000 - 90,0002
Step size (°):	0,0084
No. of points:	8976
Scan mode:	Continuous
Phi (°):	42,3
Counting time (s):	29,845

Si_FDS1b2_mask10_15ago2024.xrdml