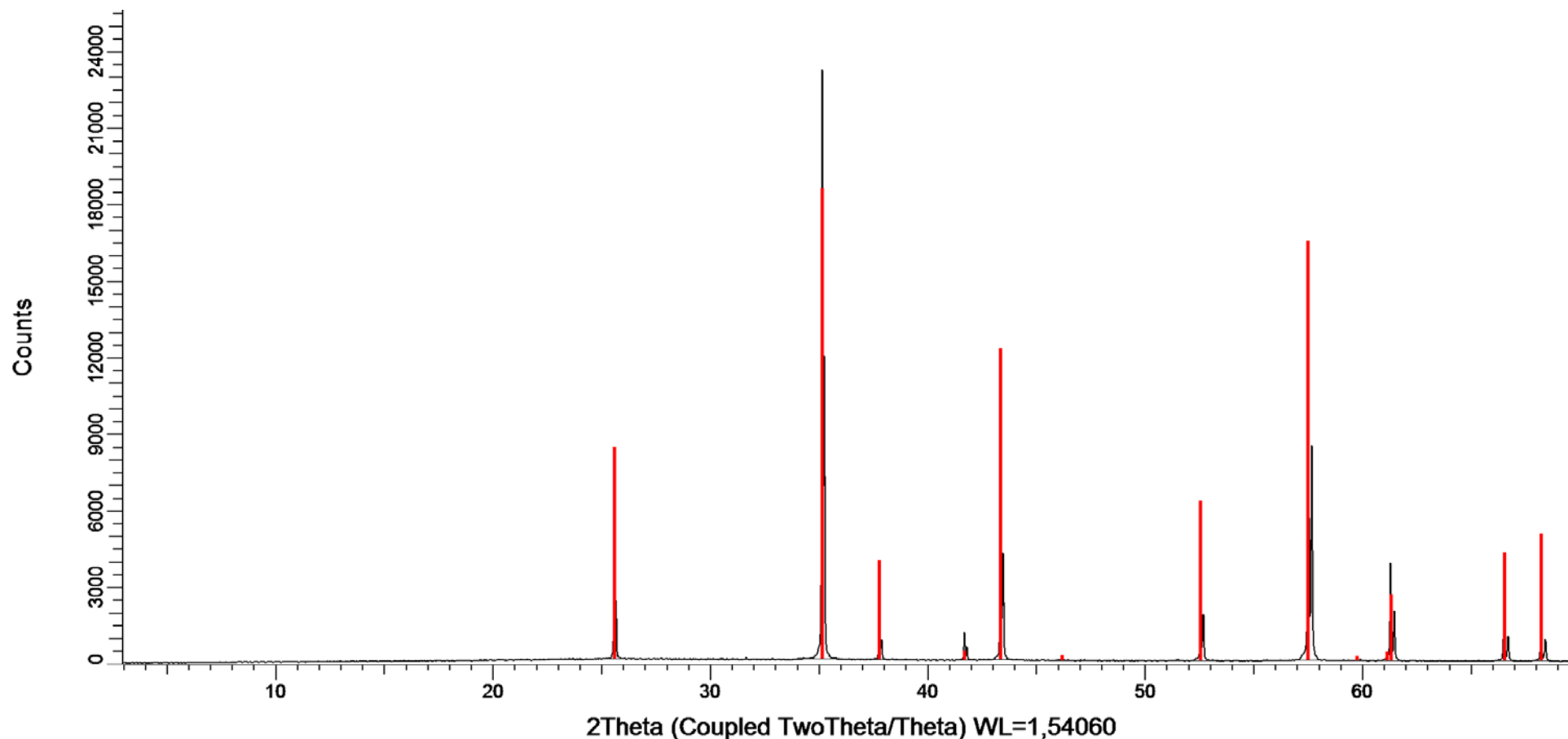




PATRÓN DE CORINDÓN 14-03-13



 CORINDON 14-03-13. Barrido tipo θ - θ . Rango: 3 a 70 $^{\circ}2\theta$. Paso: 0,03. Tiempo por paso: 0,1 seg. Detector: Lynxeye.

 Patrón de Corindón. Trigonal – a 4.7588770 - c 12.992877 – R-3c (167) – Z 6 – V 254.81

14 de marzo de 2013



SGI LABORATORIO DE RAYOS X

Corindon D8I-90 14-03-13

Range Number : 1

R-Values

Rexp : 6.05 Rwp : 13.23 Rp : 10.25 GOF : 2.19
 Rexp` : 9.15 Rwp` : 20.00 Rp` : 20.02 DW : 1.35

Instrument

Primary radius (mm)	250
Secondary radius (mm)	250
Linear PSD 2Th angular range (°)	3.3
FDS angle (°)	0.5
Beam spill, sample length (mm)	25.4
Intensity corrected	
Full Axial Convolution	
Filament length (mm)	12
Sample length (mm)	25.4
Receiving Slit length (mm)	12
Primary Sollers (°)	2.5
Secondary Sollers (°)	2.5

hkl Phase - 1 Lebail method

R-Bragg	1.262
Spacegroup	r-3c
Cell Mass	0.000
Cell Volume (Å ³)	254.8556(52)
Wt% - Rietveld	0.000
Crystallite Size	
Cry size Lorentzian (nm)	9000(14000)
Cry size Gaussian (nm)	1060(200)
k: 1 LVol-IB (nm)	880(220)
k: 0.89 LVol-FWHM (nm)	880(180)
Strain	
Strain L	0.0141(37)
e0	0.00351(93)

Lattice parameters

SRM 1976a Certificate

a (Å)	4.759097(44)	4.758877(113)
c (Å)	12.99315(12)	12.992877(164)

h	k	l	m	d	Th2	I	—
0	1	2	6	3.48022	25.57500	12.1	
1	0	4	6	2.55119	35.14796	130	
1	1	0	6	2.37955	37.77561	11	
0	0	6	2	2.16552	41.67389	8.3	
1	1	3	12	2.08551	43.35190	72.2	
2	0	2	6	1.96429	46.17668	0.532	
0	2	4	6	1.74011	52.54891	60.6	
1	1	6	12	1.60159	57.49609	318	
2	1	1	12	1.54670	59.73892	2.77	
1	2	2	12	1.51484	61.12811	3.68	
0	1	8	6	1.51105	61.29785	82.8	
2	1	4	12	1.40461	66.51557	61.9	
0	3	0	6	1.37383	68.20741	58.4	
1	2	5	12	1.33610	70.41316	0.024	

