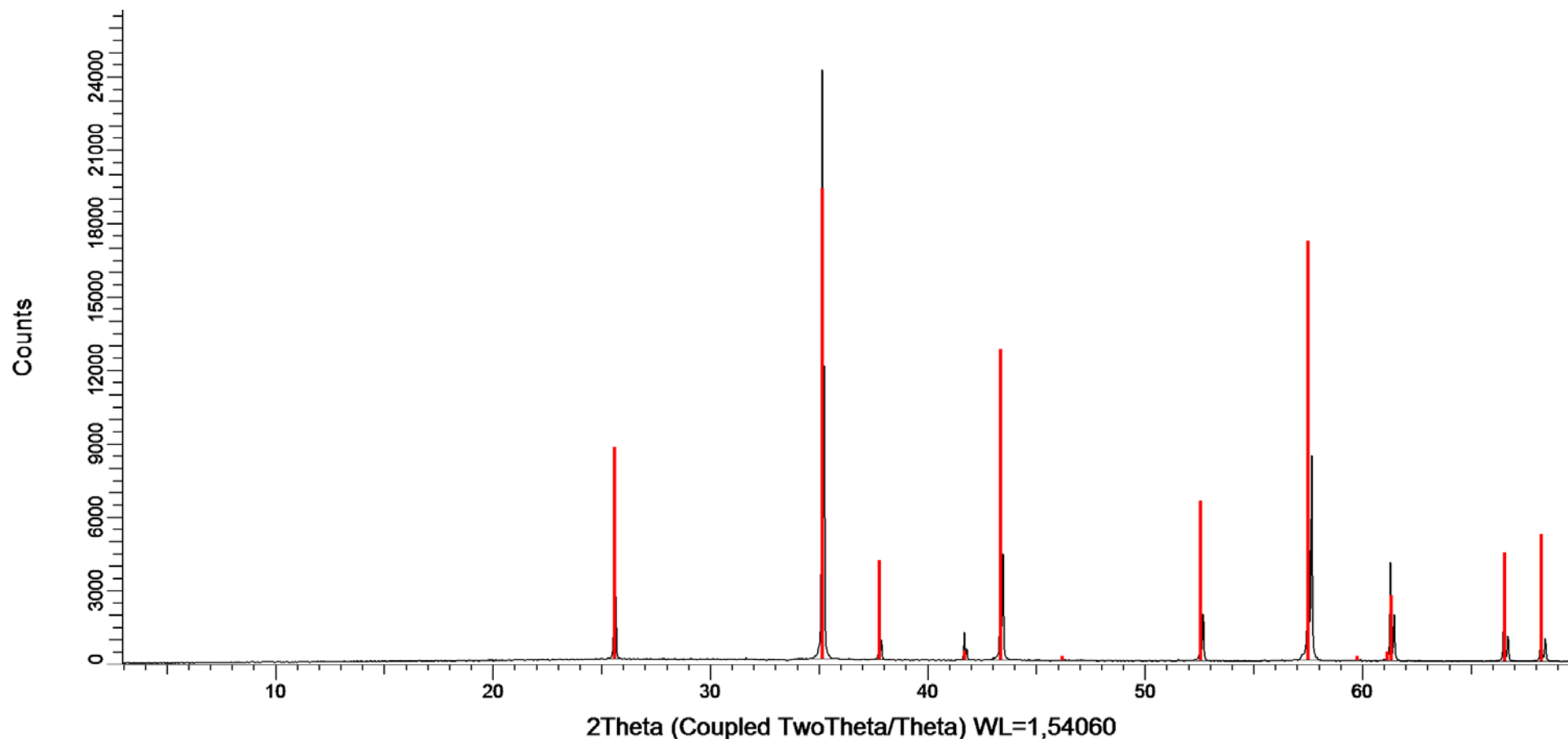


PATRÓN DE CORINDÓN 07-03-13



CORINDON 07-03-13. 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

07 de marzo de 2013



SGI LABORATORIO DE RAYOS X

Corindon D8I-90 07-03-13

Range Number : 1

R-Values

Rexp : 6.04 Rwp : 12.25 Rp : 9.19 GOF : 2.03
Rexp` : 9.12 Rwp` : 18.50 Rp` : 17.98 DW : 1.24

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

Phase name Corindon
Phase name Corindon
R-Bragg 0.938
Spacegroup r-3c
Cell Mass 0.000
Cell Volume (Å³) 254.9163(46)
Wt% - Rietveld 0.000
Crystallite Size
Cry size Lorentzian (nm) 1530(170)
k: 1 LVol-IB (nm) 980(110)
k: 0.89 LVol-FWHM (nm) 1360(150)
Strain
Strain G 0.0200(32)
e0 0.00500(81)

Lattice parameters

a (Å) 4.759463(38) **4.758877(113)**
c (Å) 12.99425(11) **12.992877(164)**

SRM 1976a Certificate

h	k	l	m	d	Th2	I	—
0	1	2	6	3.48050	25.57294	12.5	
1	0	4	6	2.55140	35.14500	131	
1	1	0	6	2.37973	37.77260	11	
0	0	6	2	2.16571	41.67019	8.33	
1	1	3	12	2.08568	43.34832	71.7	
2	0	2	6	1.96445	46.17289	0.52	
0	2	4	6	1.74025	52.54444	60.6	
1	1	6	12	1.60172	57.49099	318	
2	1	1	12	1.54682	59.73386	2.66	
1	2	2	12	1.51496	61.12289	3.52	
0	1	8	6	1.51118	61.29216	84.3	
2	1	4	12	1.40472	66.50969	64.3	
0	3	0	6	1.37394	68.20146	59.9	
1	2	5	12	1.33621	70.40678	0.0257	

