

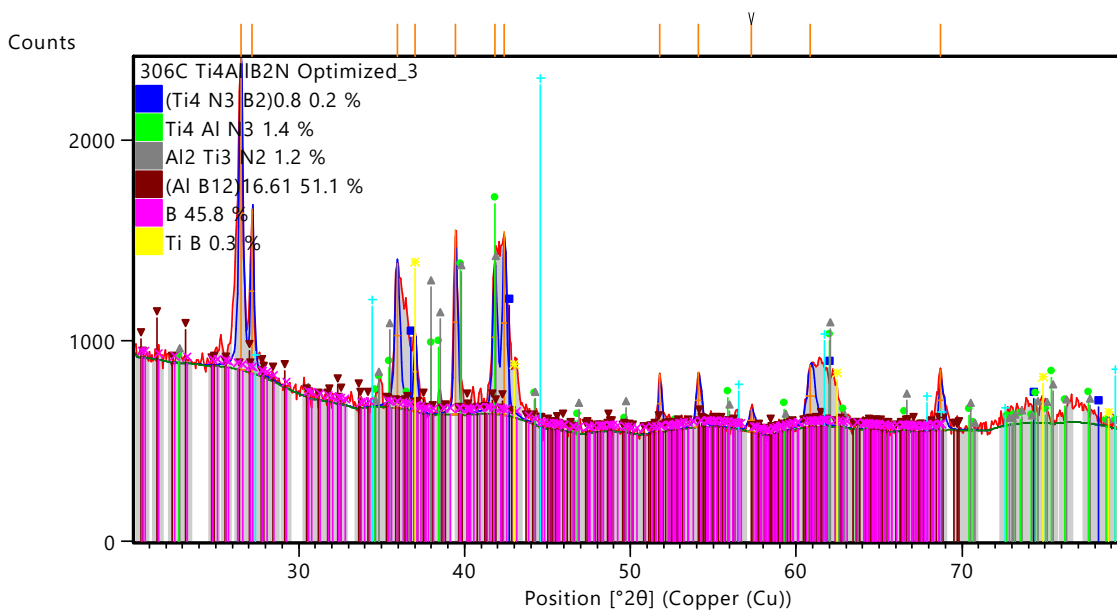
This is the simple example template containing only headers for each report item and the bookmarks. The invisible bookmarks are indicated by text between brackets.
Modify it according to your own needs and standards.

Measurement Conditions: (Bookmark 1)

Dataset Name 306C Ti4AlB2N Optimized_3
File name E:\XRD data files\New Analysis-Dr. Moynul-BAUET\5th slot-XRD (950 C)-04\306-C Ti4AlB2N-950 C\306C Ti4AlB2N Optimized_3.xrdml
Comment Configuration=Flat Sample Stage, Owner=pc, Creation date=11/22/2023 7:32:59 PM
Goniometer=Theta/Theta; Minimum step size 2Theta:0.0001; Minimum step size Omega:0.0001
Sample stage=Stage for flat samples/holders
Diffractometer system=EMPYREAN
Measurement program=C:\PANalytical\Data Collector\Programs\2B Ti3AlB2 Optimized.xrdmp,
Created identifier={1511DE26-B7FE-4D9E-AD02-FB0BF5A869E9}, Created by=pc,
Id=WL:DESKTOP-BC0RBBD:pc, Creation date=1/18/2024 6:31:02 PM, Modified identifier={706E23D6-EF3A-4959-B077-79A506FC4E68}, Modified by=pc,
Id=WL:DESKTOP-BC0RBBD:pc, Modification date=2/7/2024 9:05:13 PM
PHD Lower Level = 4.02 (keV), PHD Upper Level = 16.10 (keV)
Measurement Start Date/Time 2/9/2024 7:07:13 PM
Operator pc
Raw Data Origin XRD measurement (*.XRDML)
Scan Axis Gonio
Start Position [$^{\circ}2\theta$] 20.0348
End Position [$^{\circ}2\theta$] 79.9628
Step Size [$^{\circ}2\theta$] 0.0660
Scan Step Time [s] 12.7500
Scan Type Continuous
PSD Mode Scanning
PSD Length [$^{\circ}2\theta$] 3.35
Offset [$^{\circ}2\theta$] 0.0000
Divergence Slit Type Fixed
Divergence Slit Size [$^{\circ}$] 0.7197
Specimen Length [mm] 10.00
Measurement Temperature [$^{\circ}\text{C}$] 25.00
Anode Material Cu
Intended Wavelength Type K- α 1
K- α 1 [\AA] 1.54060
K- α 2 [\AA] 1.54443
K- β 1 [\AA] 1.39225
K- β 2 [\AA] 1.38113
K- β 3 [\AA] 1.39261
K-A2 / K-A1 Ratio 0.50000
K-Alpha2 Line Shift 0.00000
K Absorption Edge 1.37868
Generator Settings 40 mA, 45 kV
Diffractometer Type 0000000011286122

Diffractometer Number 0
 Goniometer Radius [mm] 240.00
 Dist. Focus-Diverg. Slit [mm] 60.50
 Incident Beam Monochromator No
 Spinning No

Main Graphics, Analyze View: (Bookmark 2)



Peak List: (Bookmark 3)

Pos. [°2θ]	Height [cts]	FWHM Left [°2θ]	d-spacing [Å]	Rel. Int. [%]
26.5075	1563.60	0.2598	3.35987	100.00
27.2034	819.26	0.1948	3.27548	52.40
35.9287	723.07	0.3247	2.49752	46.24
37.0259	398.18	0.1948	2.42599	25.47
39.4639	920.65	0.1948	2.28155	58.88
41.8106	764.37	0.2598	2.15876	48.89
42.3843	914.95	0.2598	2.13086	58.52
51.7725	290.08	0.1948	1.76437	18.55
54.1014	274.48	0.3247	1.69379	17.55
57.3011	113.40	0.3897	1.60658	7.25
60.8640	309.84	0.5196	1.52078	19.82
68.7126	301.41	0.2598	1.36496	19.28

Pattern List: (Bookmark 4)

Visible	Ref.Code	Score	Compound Name	Displ.[°2θ]	Scale Fac.	Chem. Formula

*	96-151-1346	24	(Ti4 N3 B2)0.8	0.000	0.228	N2.40 B1.60 Ti3.20
*	96-152-6339	14	Ti4 Al N3	0.000	0.432	Al2.00 N6.00 Ti8.00
*	96-154-0933	8	Al2 Ti3 N2	0.000	0.593	N4.00 Ti6.00 Al4.00
*	96-152-4661	2	(Al B12)16.61	0.000	5.047	B176.00 Al13.36
*	96-153-2806	1	1532805	0.000	0.704	Al0.91 B2.00
*	96-151-1439	No	1511438	0.000	0.000	B189.88
		Matching Lines				
*	96-151-1333	39	Ti B	0.000	0.293	Ti4.00 B4.00

Document History: (Bookmark 5)

ESD calculated from counts:

- Modification time = "2/14/2024 11:52:24 AM"
- Modification editor = "pc"

Insert Measurement:

- File name = "306C Ti4Al1B2N Optimized_3.xrdml"
- Modification time = "2/14/2024 11:52:24 AM"
- Modification editor = "pc"

Default properties:

- Measurement step axis = "None"
- Internal wavelengths used from anode material: Copper (Cu)
- Original K-Alpha1 wavelength = "1.54060"
- Used K-Alpha1 wavelength = "1.54060"
- Original K-Alpha2 wavelength = "1.54443"
- Used K-Alpha2 wavelength = "1.54443"
- Original K-Beta wavelength = "1.39225"
- Used K-Beta wavelength = "1.39225"
- Irradiated length = "10.00000"
- Spinner used = "No"
- KBeta filter material = "Ni"
- KBeta filter thickness = "0.02000"
- Receiving slit size = "0.10000"
- Step axis value = "0.00000"
- Offset = "0.00000"
- Sample length = "10.00000"
- Modification time = "2/14/2024 11:52:24 AM"
- Modification editor = "pc"

Interpolate Step Size:

- Initial Scan Range = 7.03283 - 89.95060
- Initial Step Size = 0.06565
- Derived Step Size = 0.06600
- Use Derived Step Size = "Yes"
- Parameterset name = "Default"
- PANalytical factory default
- Modification time = "2/14/2024 11:52:24 AM"
- Modification editor = "pc"

Clip Range:

- Old/New start = "7.0328/20.0000"
- Old/New end = "89.9288/80.0000"
- Modification time = "2/14/2024 11:52:45 AM"
- Modification editor = "pc"

Determine Background:

- Add to net scan = "Nothing"
- User defined intensity = "-5"
- Correction method = "Automatic"
- Bending factor = "1"
- Minimum significance = "0.7"
- Minimum tip width = "0"
- Maximum tip width = "1"
- Peak base width = "2"
- Use smoothed input data = "Yes"
- Granularity = "10"
- Search window = "5"
- Spline type = "Linear"
- Parameterset name = "Untitled"
- Parameterset modification time = "2/9/2024 8:08:11 PM"
- Parameterset modification editor = "pc"
- Modification time = "2/14/2024 11:52:52 AM"
- Modification editor = "pc"

Search Peaks:

- Minimum significance = "2"
- Minimum tip width = "0.1"
- Maximum tip width = "1"
- Peak base width = "2"
- Method = "Minimum 2nd derivative"
- Parameterset name = "Untitled"
- Parameterset modification time = "2/13/2024 3:42:23 PM"
- Parameterset modification editor = "pc"
- Modification time = "2/14/2024 11:52:58 AM"
- Modification editor = "pc"

Search & Match:

- Allow pattern shift = "No"
- Auto residue = "Yes"
- Data source = "Profile and peak list"

- Demote unmatched strong = "Yes"
- Multi phase = "Yes"
- Restriction set = "Untitled"
- Restriction = "Restriction set"
- Subset name = ""
- Match intensity = "Yes"
- Two theta shift = "0"
- Identify = "No"
- Max. no. of accepted patterns = "5"
- Minimum score = "50"
- Min. new lines / total lines = "60"
- Search depth = "10"
- Minimum new lines = "5"
- Minimum scale factor = "0.1"
- Intensity threshold = "0"
- Use line clustering = "Yes"
- Line cluster range = "1.5"
- Search sensitivity = "1.8"
- Use adaptive smoothing = "Yes"
- Smoothing range = "1.5"
- Threshold factor = "3"
- Match Threshold = "0"
- N * Esds = "-1"
- Raw Weight = "-1"
- Peak Shape = "-1"
- Accepted Shape = "-1"
- Peak Power = "-1"
- New Peak Power = "-1"
- Intensity Power = "-1"
- N Peaks Power = "-1"
- Parameterset name = "Untitled"
- Parameterset modification time = "2/14/2024 11:53:21 AM"
- Parameterset modification editor = "pc"
- Modification time = "2/14/2024 11:53:24 AM"
- Modification editor = "pc"

Convert Ref. Pattern to Phase:

- Modification time = "2/14/2024 11:56:36 AM"
- Modification editor = "pc"

Delete Selected Phase:

- Modification time = "2/14/2024 11:56:53 AM"
- Modification editor = "pc"

Edit 1511438 Title:

- Old Value = "1511438"
- Modification time = "2/14/2024 11:57:10 AM"
- Modification editor = "pc"

XRD Measurement Information: (Bookmark 6)

More items... (Bookmark 7)

More items... (Bookmark 8)

More items... (Bookmark 9)

More items... (Bookmark 10)

More items... (Bookmark 11)

More items... (Bookmark 12)

More items... (Bookmark 13)

More items... (Bookmark 14)

More items... (Bookmark 15)