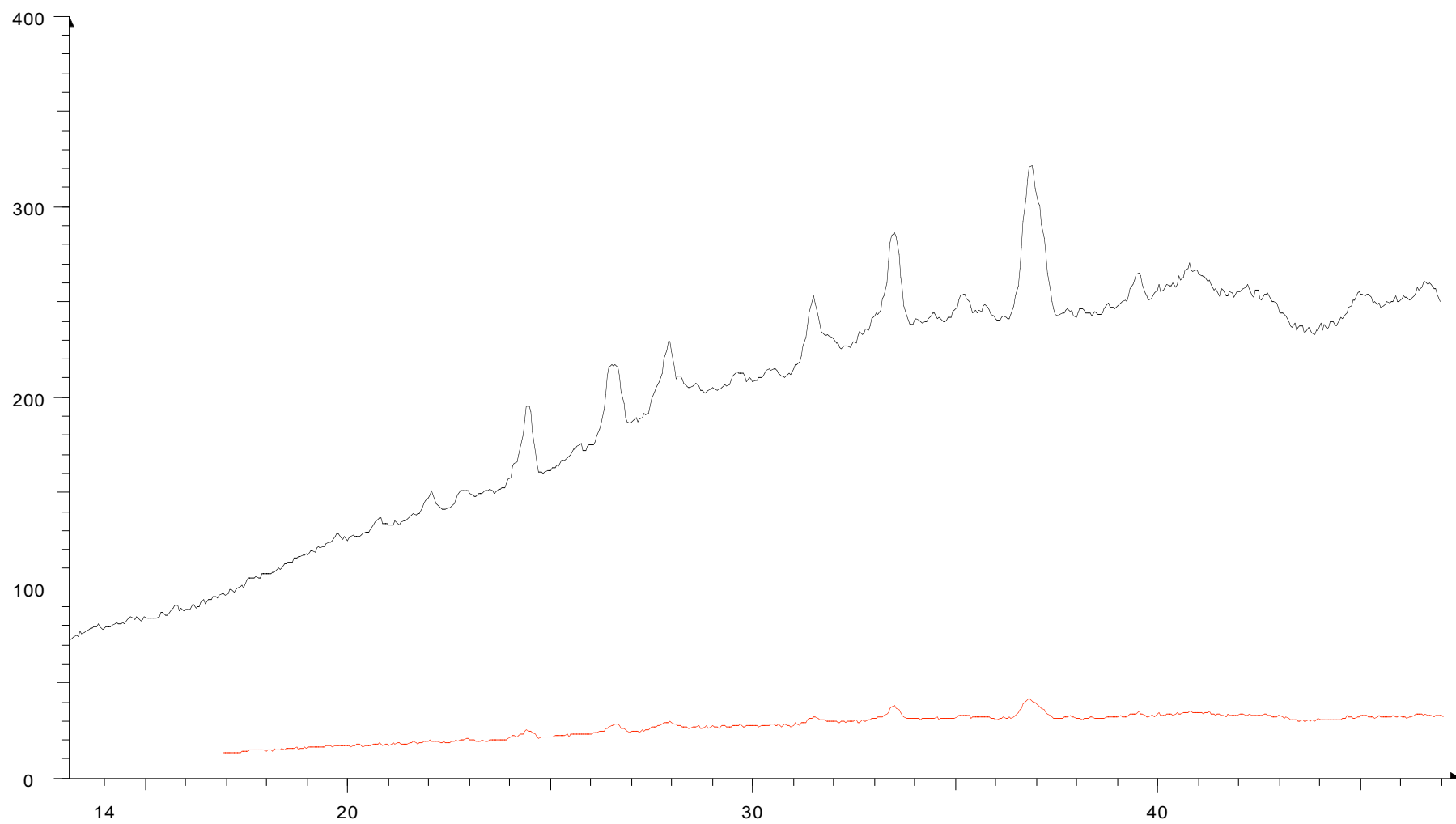


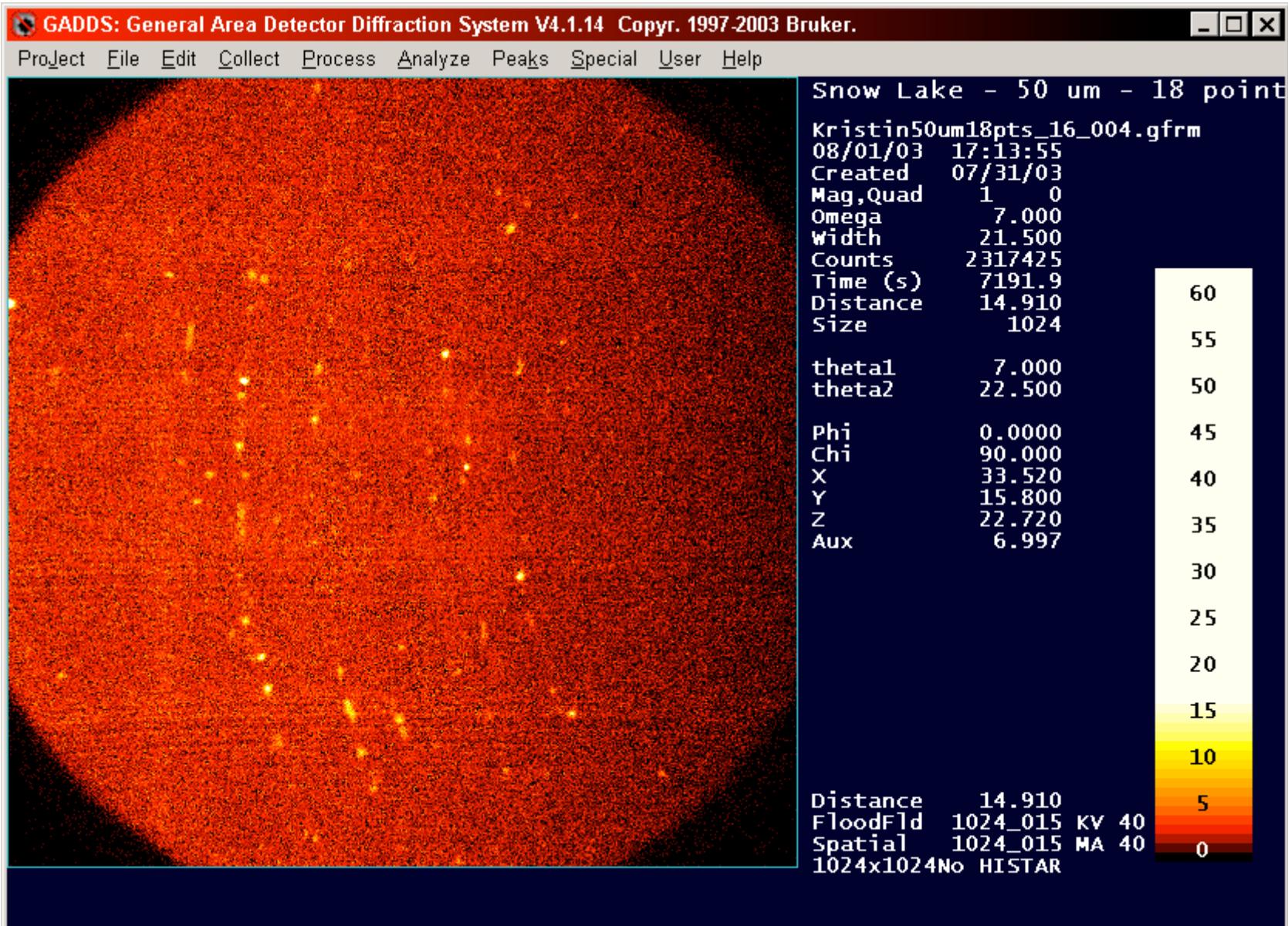
Type of radiation	CuK <sub>1</sub> +K <sub>2</sub> = 1.54184Å
Power	40 kV x 40 mA
Type of scan	2 <sub>θ</sub> (2 Omega)
Beam diameter	50 μm
2 <sub>θ</sub> range	7° - 22.5°
Time	16 hours

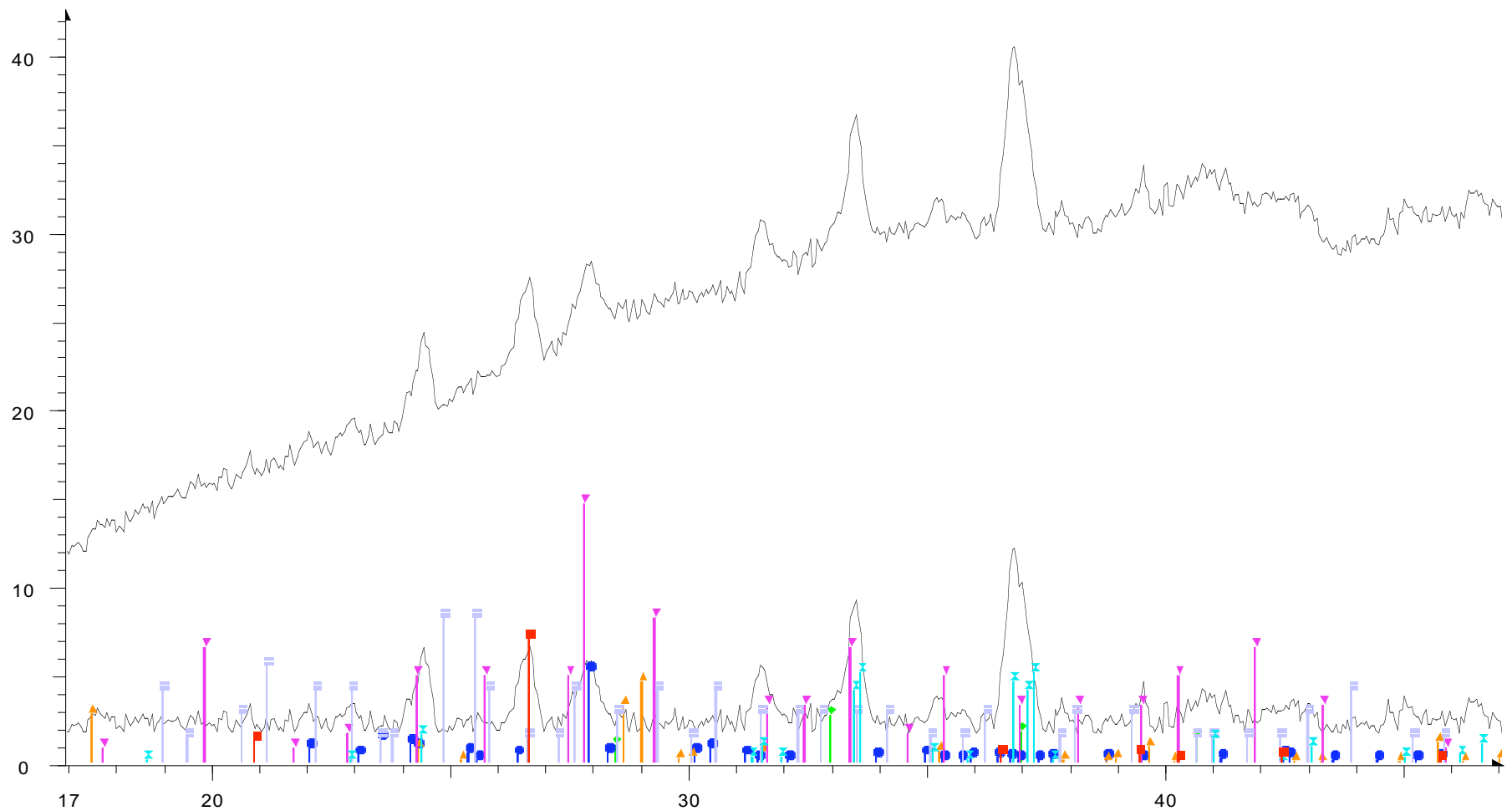
## SAMPLE / DIFFRACTOGRAM INVENTORY

Sample ID	Spot number	Zone	Notes
S3	9	5	Amorphous reddish brown material.
TM2-4	16	8	Amorphous reddish brown and yellow material.



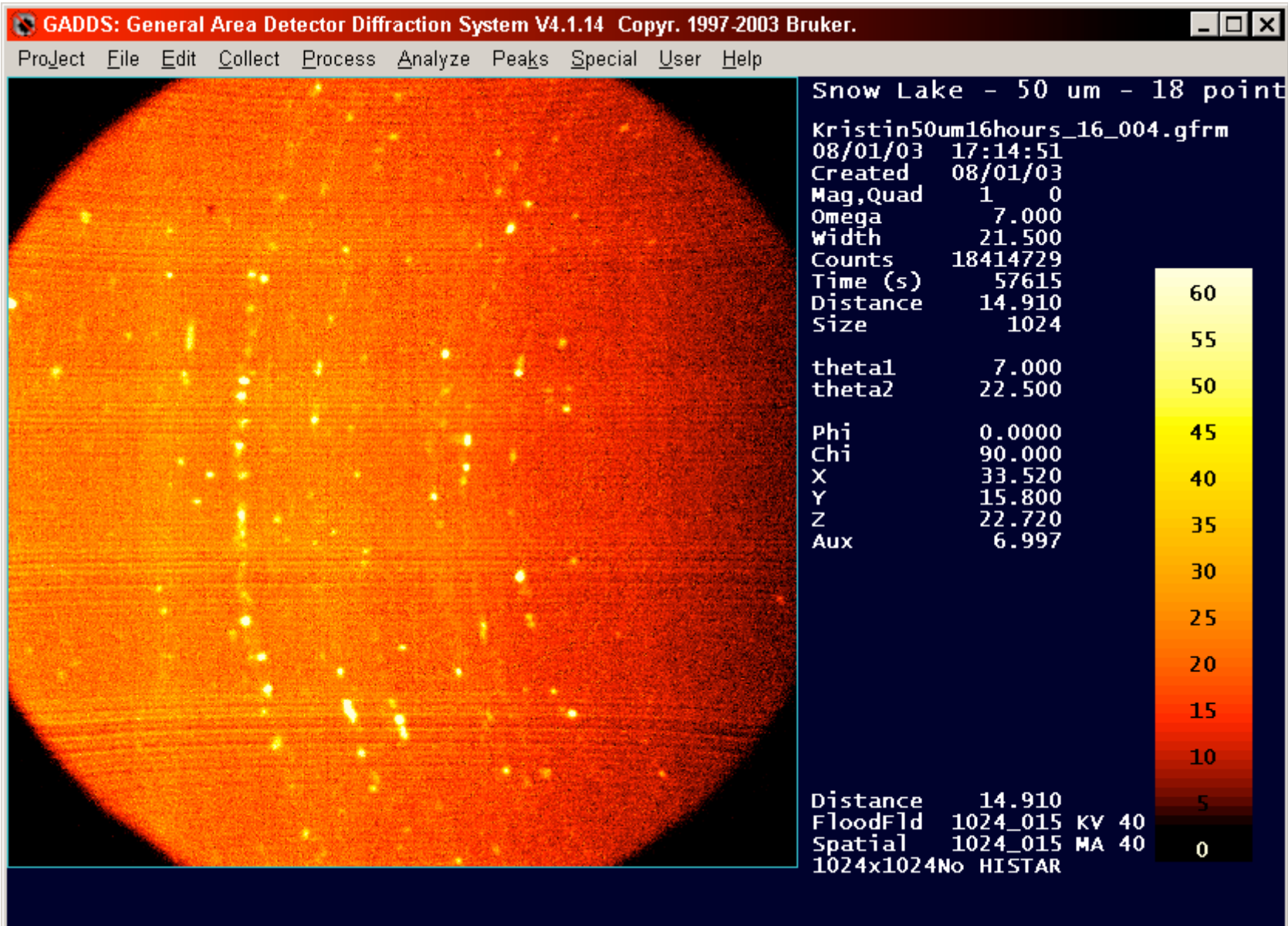
File: Kristin50um18pts 16.raw  
File: Kristin50um16hours 16 [002].raw

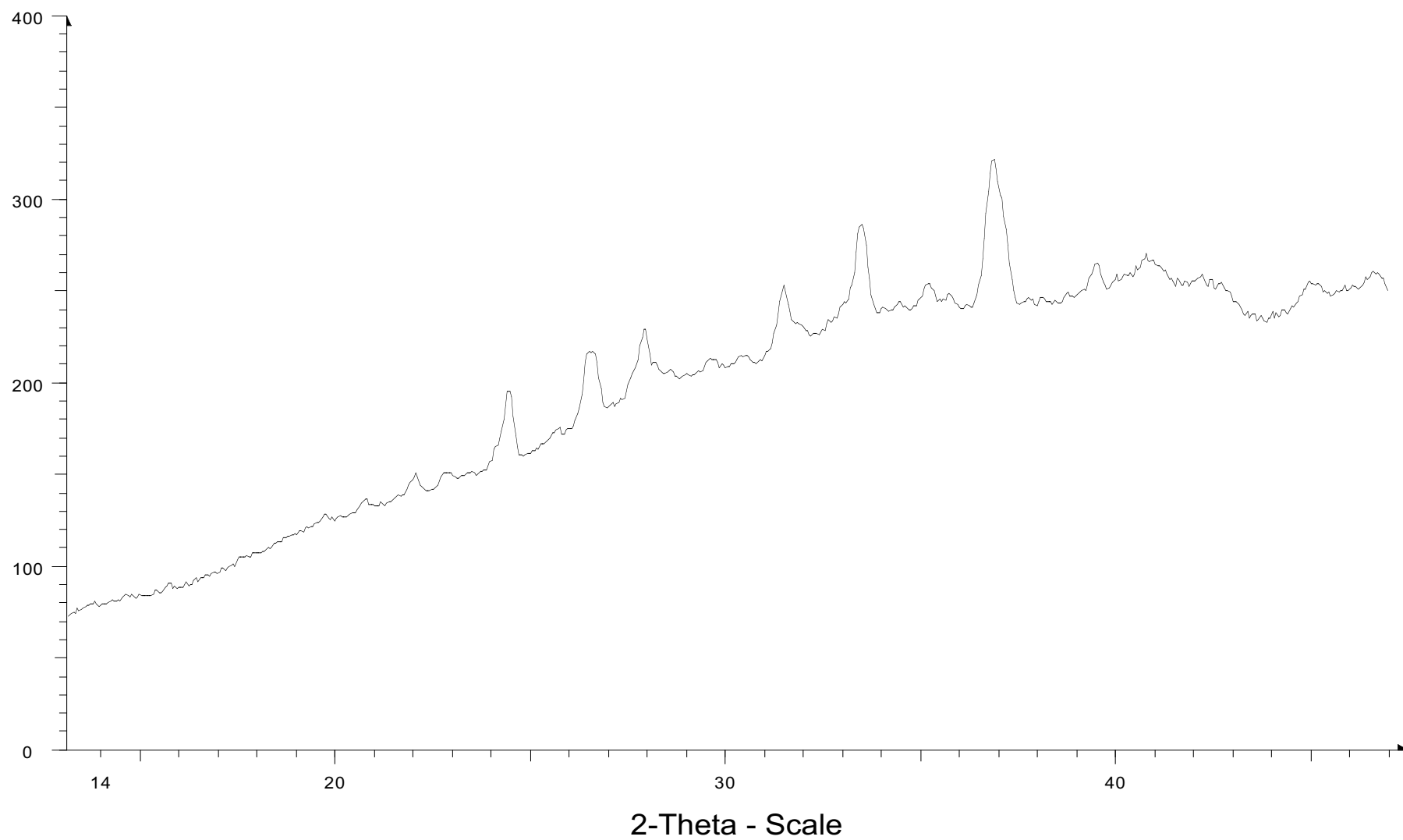




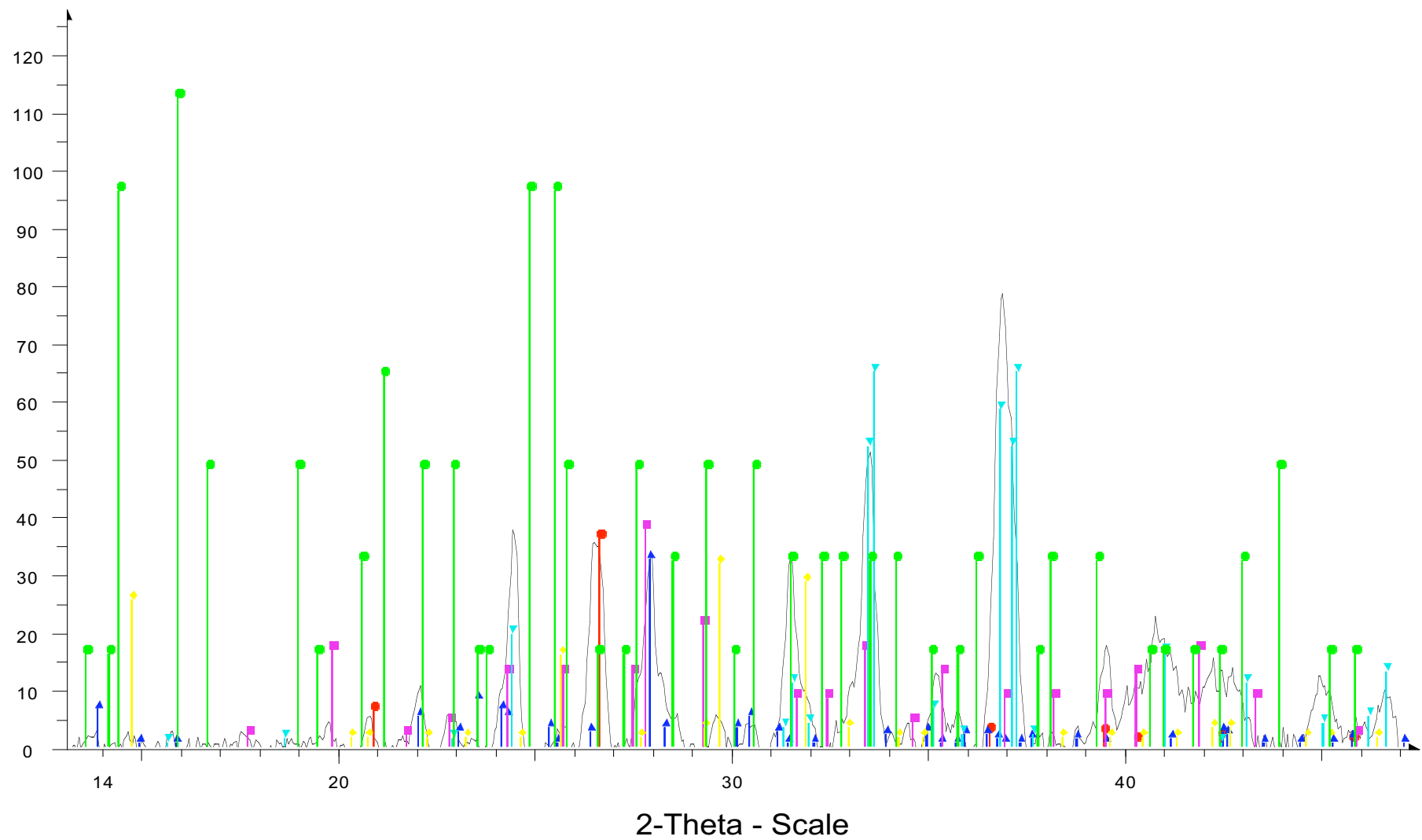
2-Theta - Scale

- File: Kristin50um18pts 16.raw
- Y + 5.0 mm - File: Kristin50um18pts 16.raw
- 85-0796 (C) - Quartz - SiO<sub>2</sub>
- 71-0053 (C) - Pprite - FeS<sub>2</sub>
- 09-0466 (\*) - Albite, ordered - NaAlSi<sub>3</sub>O<sub>8</sub>
- 36-0427 (\*) - Jarosite, OH-rich - (K,H<sub>3</sub>O)Fe<sub>3</sub>(SO<sub>4</sub>)<sub>2</sub>(OH)<sub>6</sub>
- 44-1468 (N) - Tooeleite - Fe<sub>8</sub>(AsO<sub>4</sub>)<sub>6</sub>(OH)<sub>6</sub>·5H<sub>2</sub>O
- 35-0583 (I) - Copiapite - FeFe<sub>4</sub>(SO<sub>4</sub>)<sub>6</sub>(OH)<sub>12</sub>·20H<sub>2</sub>O
- 42-1320 (I) - Arsenooprite - FeAsS



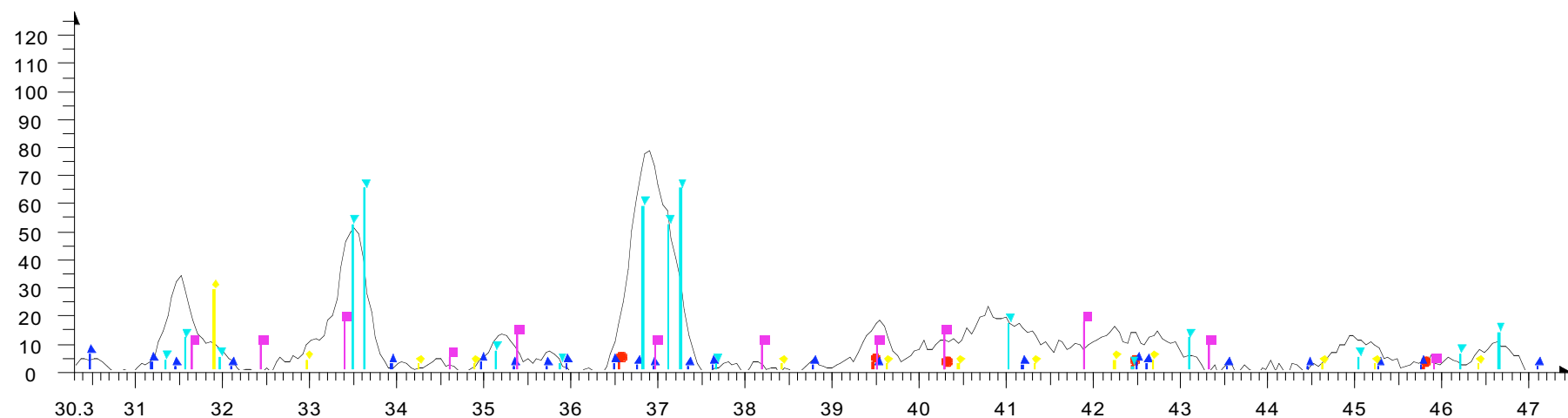
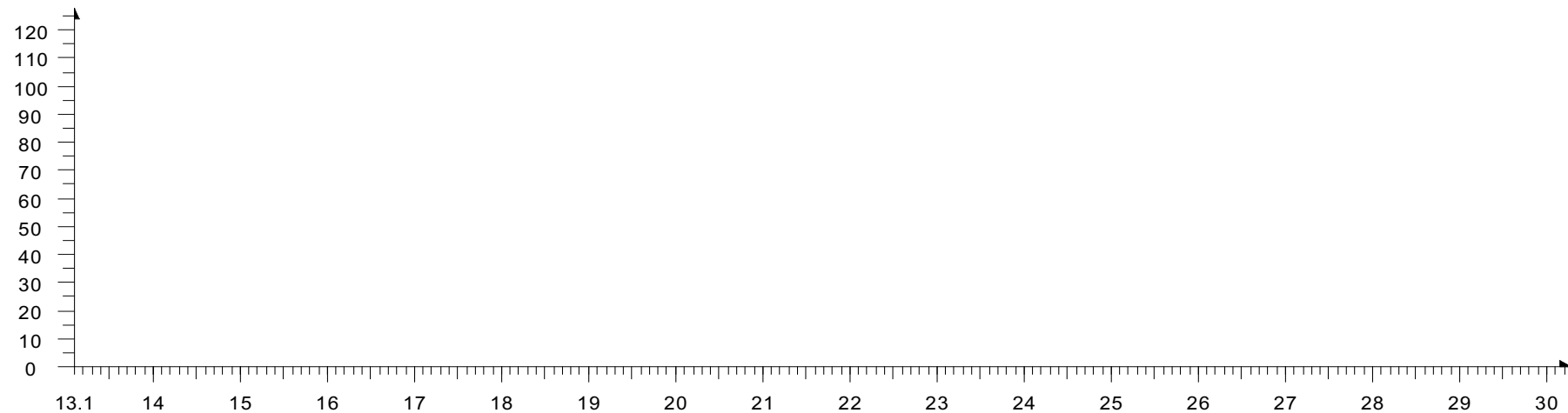


File: Kristin50um16hours 16 [002].raw



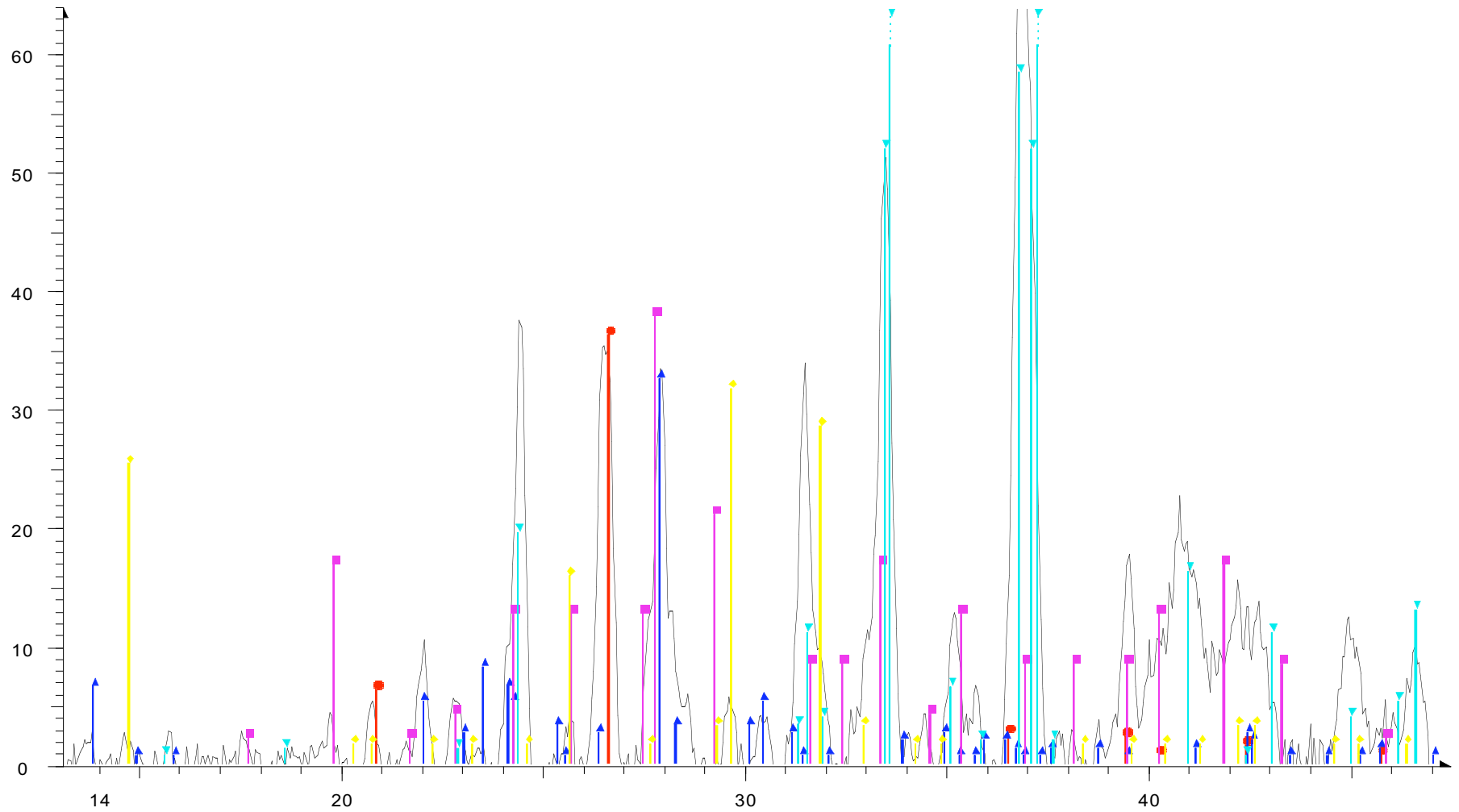
- File: Kristin50um16hours 16 f0021.raw
- 85-0796 (C) - Quartz -  $\text{SiO}_2$
  - 09-0466 (\*) - Albite, ordered -  $\text{NaAlSi}_3\text{O}_8$
  - 44-1468 (N) - Tooeleite -  $\text{Fe}_8(\text{AsO}_4)_6(\text{OH})_6 \cdot 5\text{H}_2\text{O}$
  - 42-1320 (I) - Arsenopyrite -  $\text{FeAsS}$
  - 41-0224 (I) - Bassanite, svn -  $\text{CaSO}_4 \cdot 0.5\text{H}_2\text{O}$
  - 35-0583 (I) - Copiapite -  $\text{FeFe}_4(\text{SO}_4)_6(\text{OH})_2 \cdot 20\text{H}_2\text{O}$



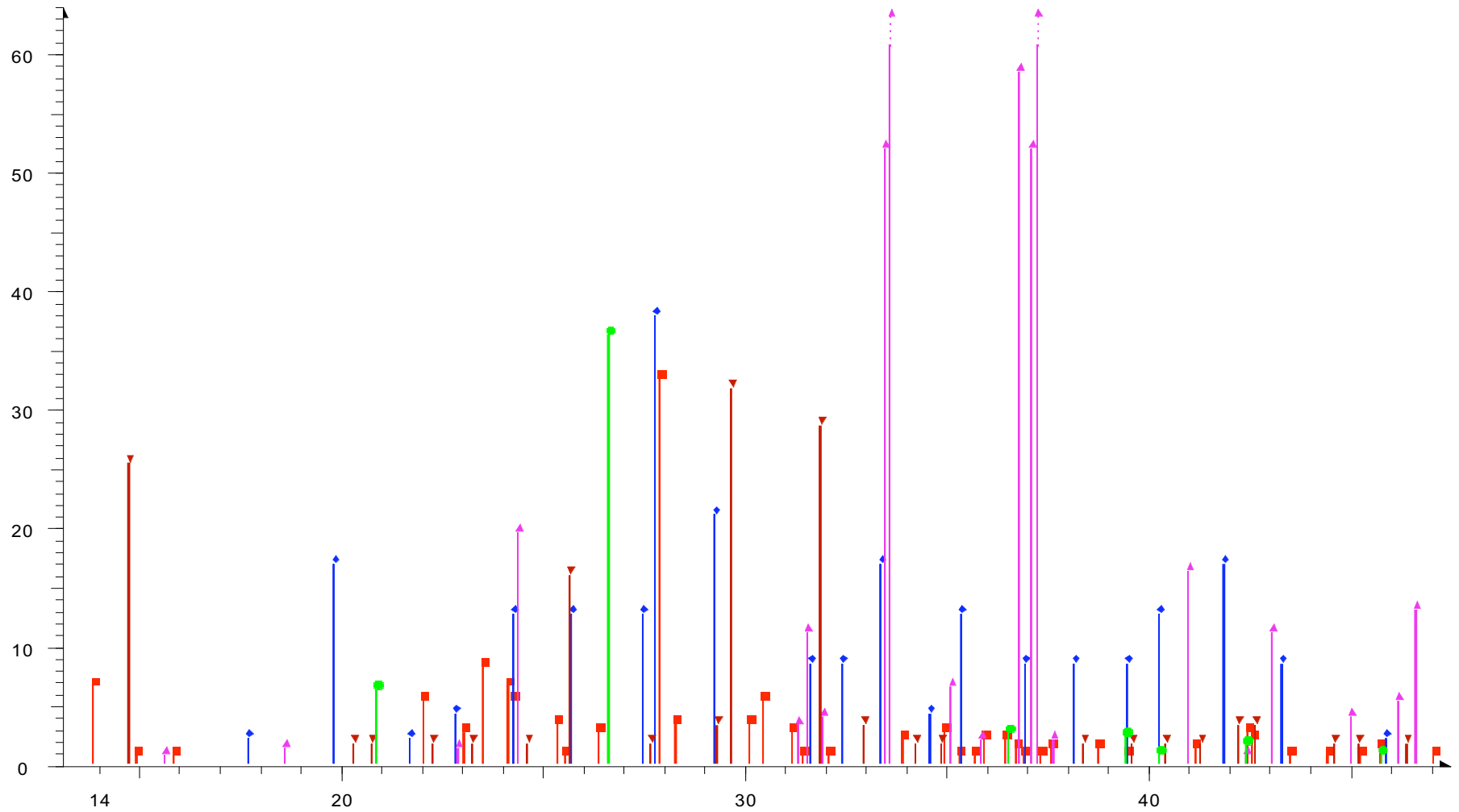


2-Theta - Scale

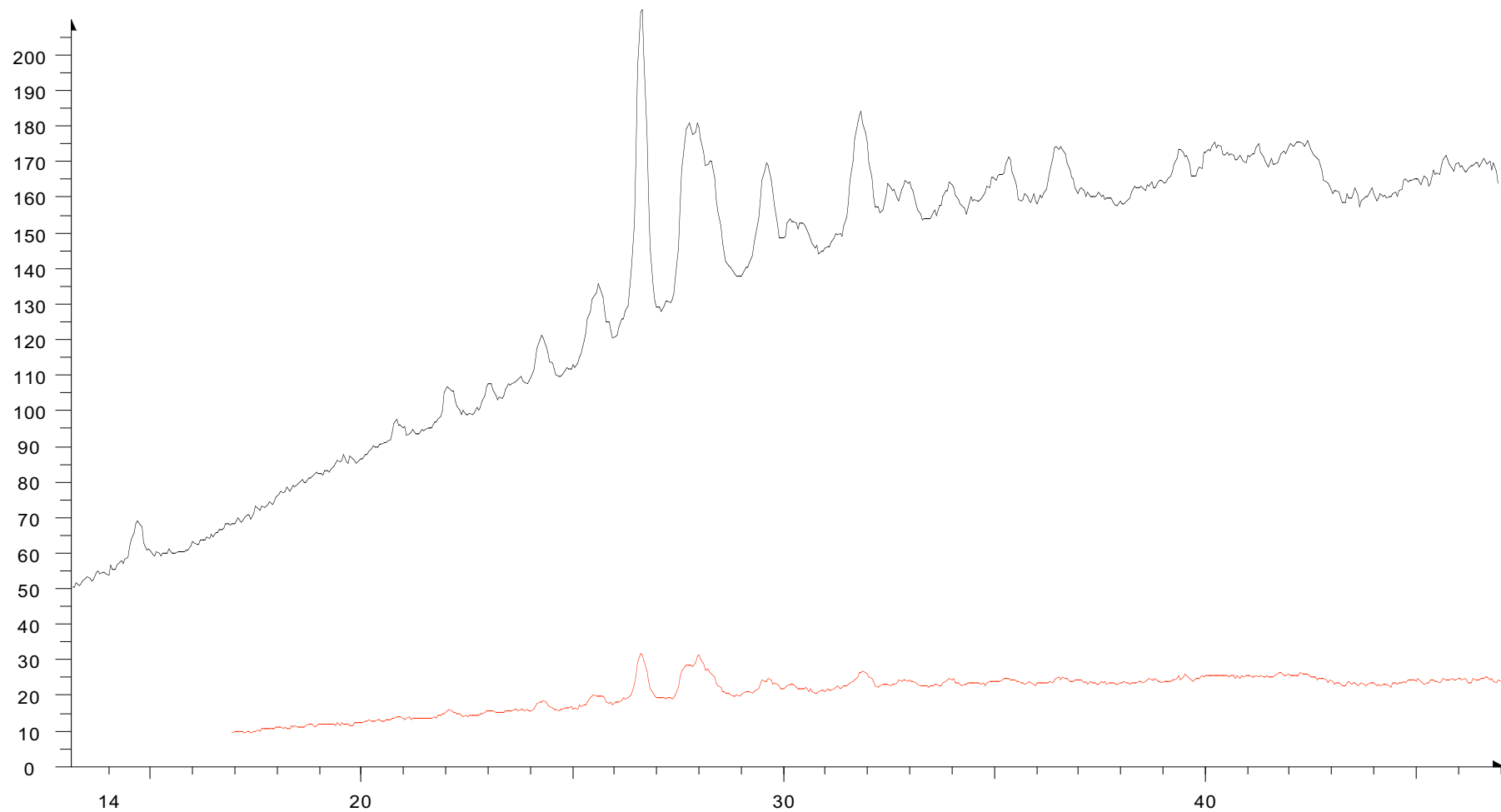
- File: Kristin50um16hours\_16 [002].raw
- 85-0796 (C) - Quartz - SiO<sub>2</sub>
- 09-0466 (\*) - Albite, ordered - NaAlSi<sub>3</sub>O<sub>8</sub>
- 44-1468 (N) - Tooeleite - Fe<sub>8</sub>(AsO<sub>4</sub>)<sub>6</sub>(OH)6·5H<sub>2</sub>O
- 42-1320 (I) - Arsenopovrite - FeAsS
- 41-0224 (I) - Bassanite, syn - CaSO<sub>4</sub>·0.5H<sub>2</sub>O



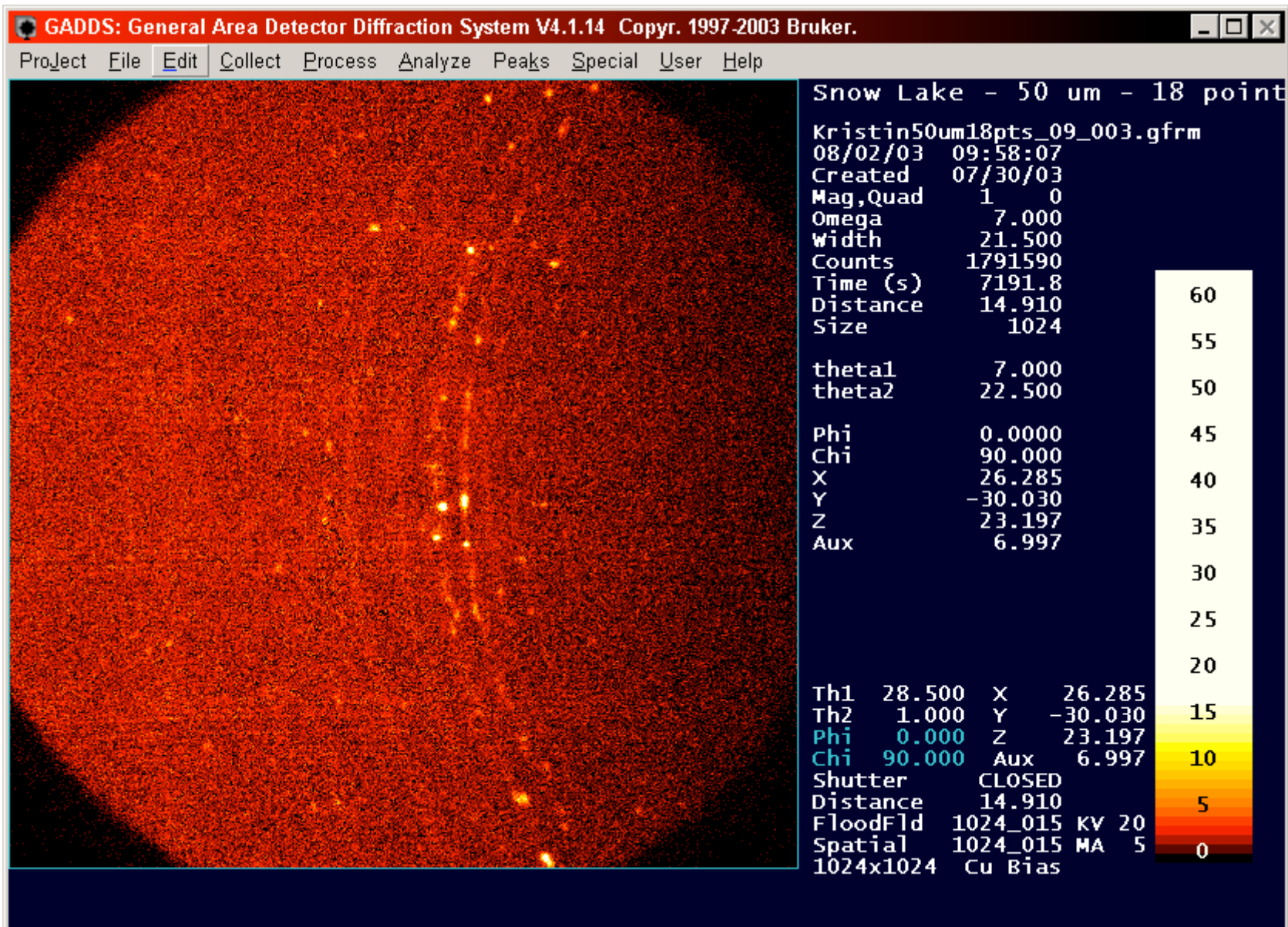
- File: Kristin50um16hours\_16 [002].raw
- 85-0796 (C) - Quartz -  $\text{SiO}_2$
- 09-0466 (\*) - Albite, ordered -  $\text{NaAlSi}_3\text{O}_8$
- 44-1468 (N) - Tooeleite -  $\text{Fe}_8(\text{AsO}_4)_6(\text{OH})_6 \cdot 5\text{H}_2\text{O}$
- 42-1320 (I) - Arsenopovrite -  $\text{FeAsS}$
- 41-0224 (I) - Bassanite, syn -  $\text{CaSO}_4 \cdot 0.5\text{H}_2\text{O}$

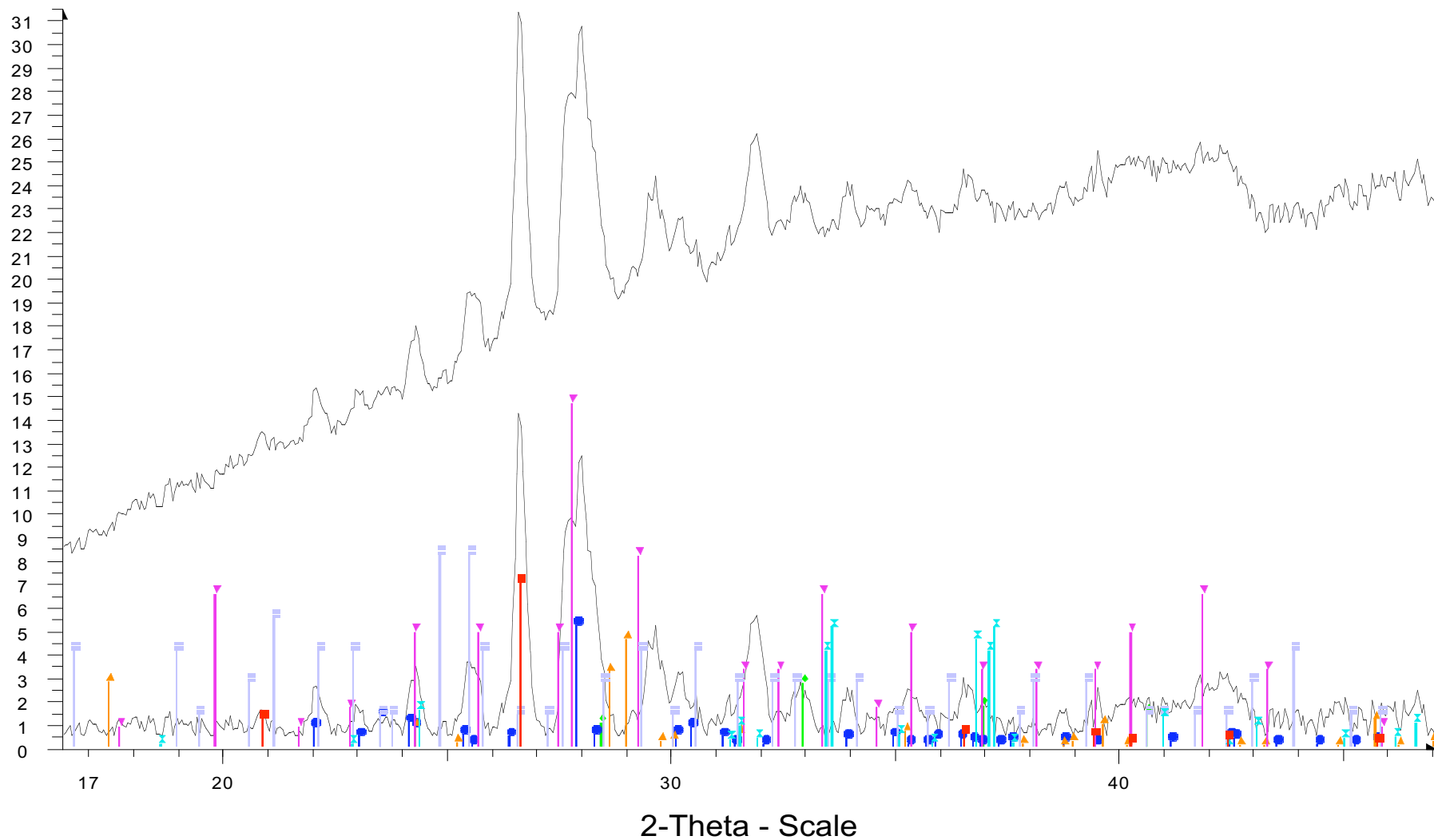


- 85-0796 (C) - Quartz - SiO<sub>2</sub>
- 09-0466 (\*) - Albite, ordered - NaAlSi<sub>3</sub>O<sub>8</sub>
- 44-1468 (N) - Tooeleite - Fe<sub>8</sub>(AsO<sub>4</sub>)<sub>6</sub>(OH)<sub>6</sub>·5H<sub>2</sub>O
- 42-1320 (I) - Arsenopyrite - FeAsS
- 41-0224 (I) - Bassanite, svn - CaSO<sub>4</sub>·0.5H<sub>2</sub>O



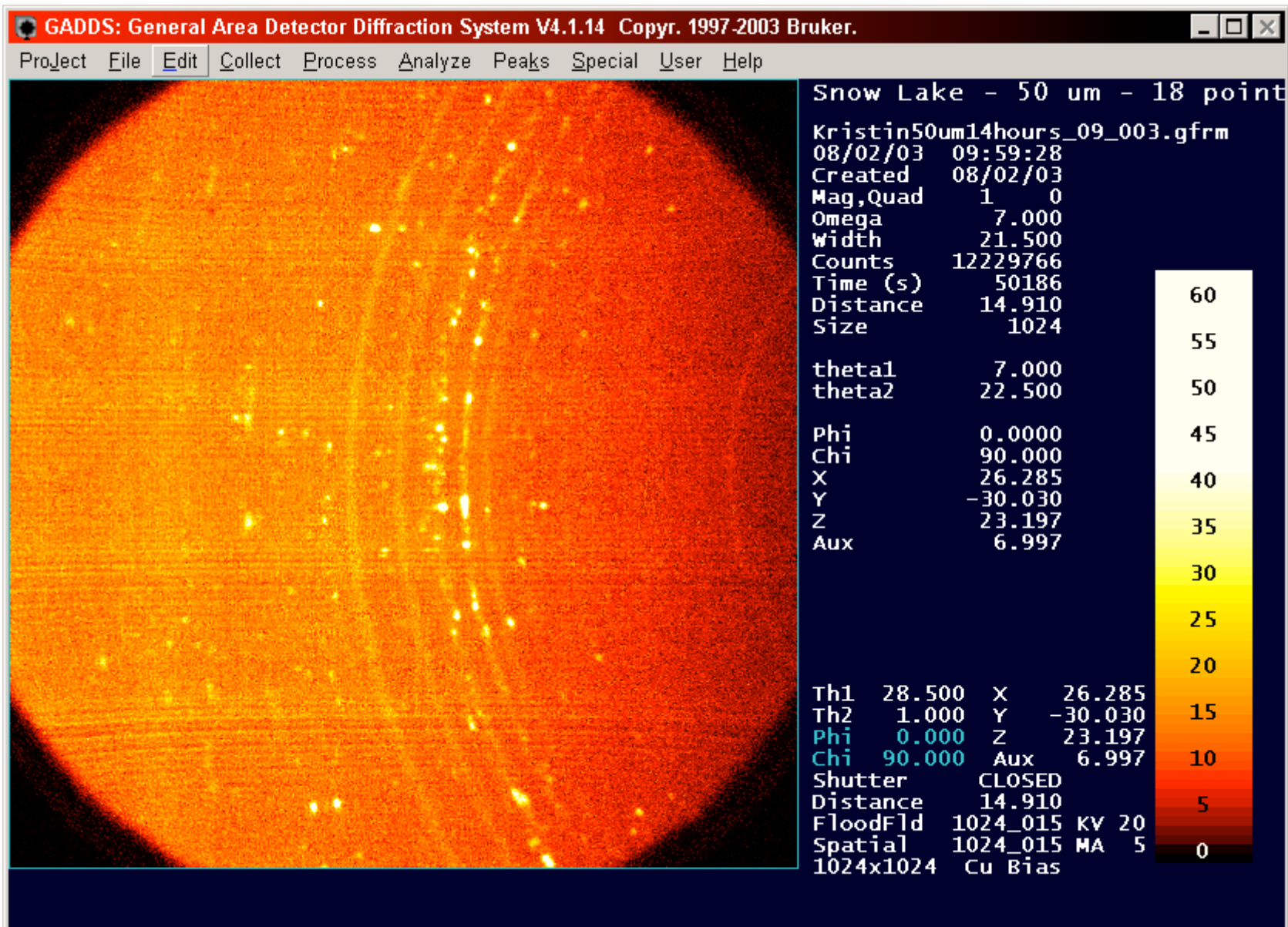
File: Kristin50um18pts 09 I0021.raw  
Y + 2.0 mm - File: Kristin50um14hours 09.raw

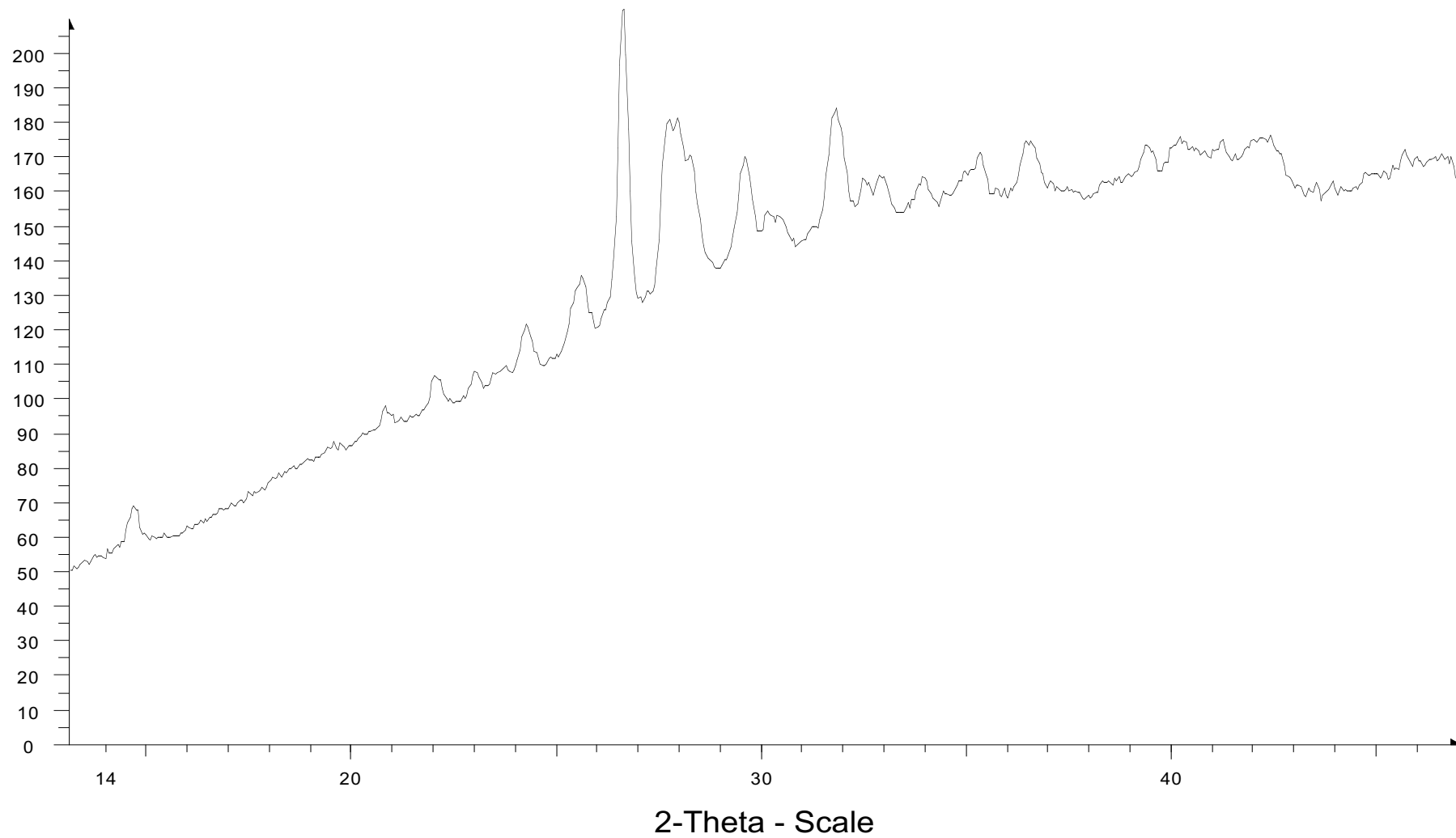




- File: Kristin50um18pts\_09 [003].raw
- Y + 2.0 mm - File: Kristin50um18pts\_09 [003].raw
- 85-0796 (C) - Quartz - SiO<sub>2</sub>
- 71-0053 (C) - Prite - FeS<sub>2</sub>
- 09-0466 (\*) - Albite, ordered - NaAlSi<sub>3</sub>O<sub>8</sub>
- 36-0427 (\*) - Jarosite, OH-rich - (K,H<sub>3</sub>O)Fe<sub>3</sub>(SO<sub>4</sub>)<sub>2</sub>(OH)<sub>6</sub>
- 44-1468 (N) - Tooeleite - Fe<sub>8</sub>(AsO<sub>4</sub>)<sub>6</sub>(OH)<sub>6</sub>·5H<sub>2</sub>O
- 35-0583 (I) - Copiapite - FeFe<sub>4</sub>(SO<sub>4</sub>)<sub>6</sub>(OH)<sub>2</sub>·20H<sub>2</sub>O
- 42-1320 (I) - Arsenooprite - FeAsS

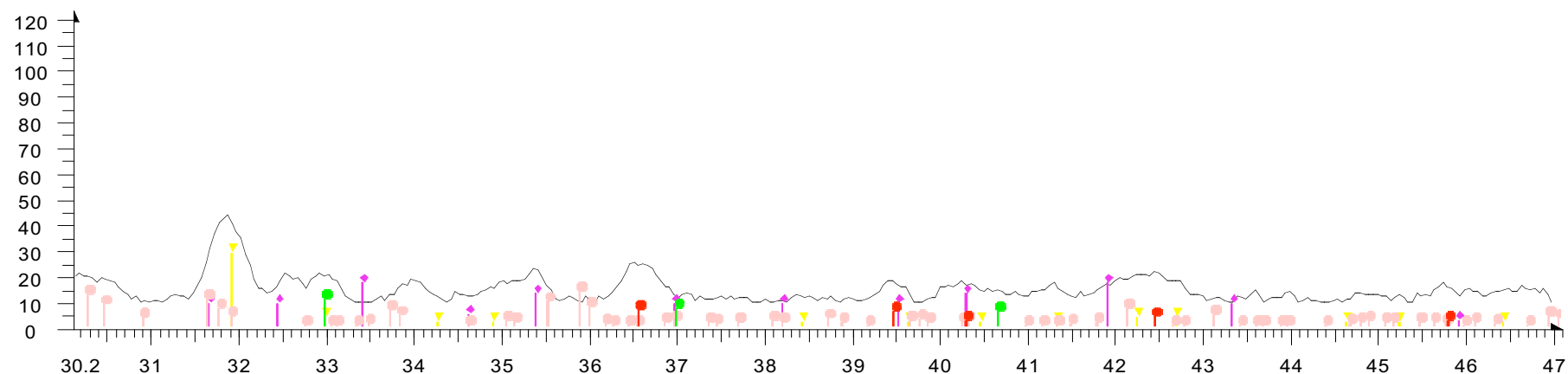
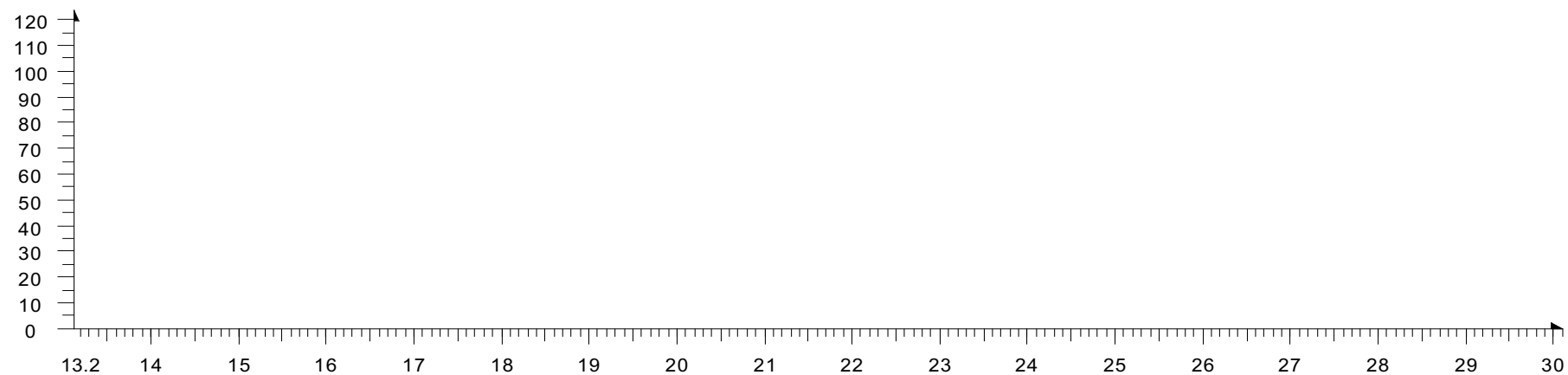






Y + 2.0 mm - File: Kristin50um14hours 09.raw





2-Theta - Scale

- Y + 4.0 mm - File: Kristin50um14hours 09.raw
- 85-0796 (C) - Quartz -  $\text{SiO}_2$
- 44-1468 (N) - Tooeleite -  $\text{Fe}_8(\text{AsO}_4)_6(\text{OH})_6 \cdot 5\text{H}_2\text{O}$
- 41-0224 (I) - Bassanite, syn -  $\text{CaSO}_4 \cdot 0.5\text{H}_2\text{O}$
- 89-1463 (C) - Anorthite -  $(\text{Ca}_{0.98}\text{Na}_{0.02})(\text{Al}_{1.98}\text{Si}_{0.02})\text{Si}_2\text{O}_8$
- 71-0053 (C) - Pvrite -  $\text{FeS}_2$

