

## **Supporting information:**

### **Complex Clover Cross-Sectioned Nanotubules Exist in the Structure of First Uranium Borate Phosphate**

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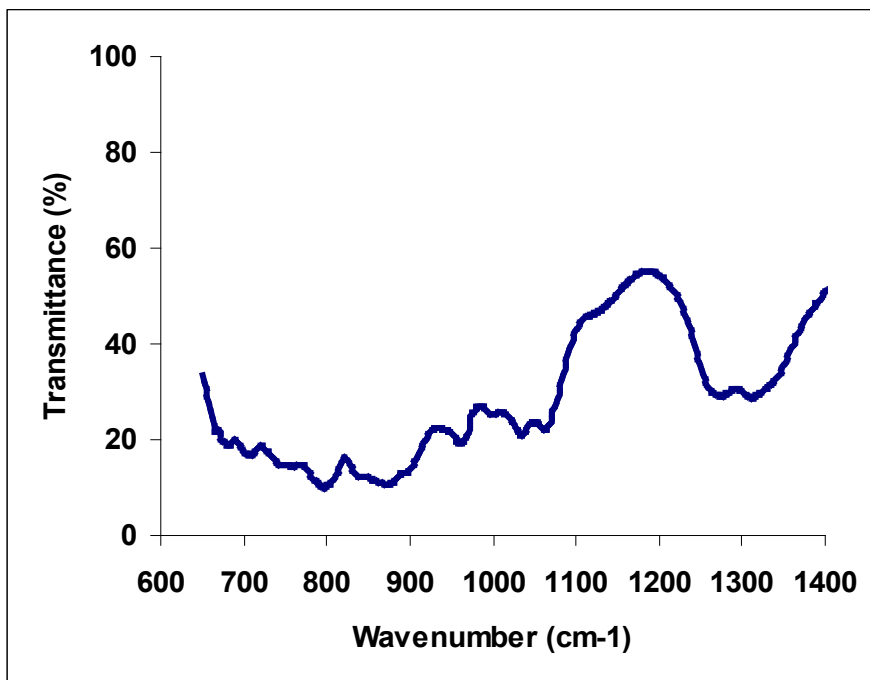


Figure S1. FTIR spectrum of **BaBPU1** (650-1400cm<sup>-1</sup>)

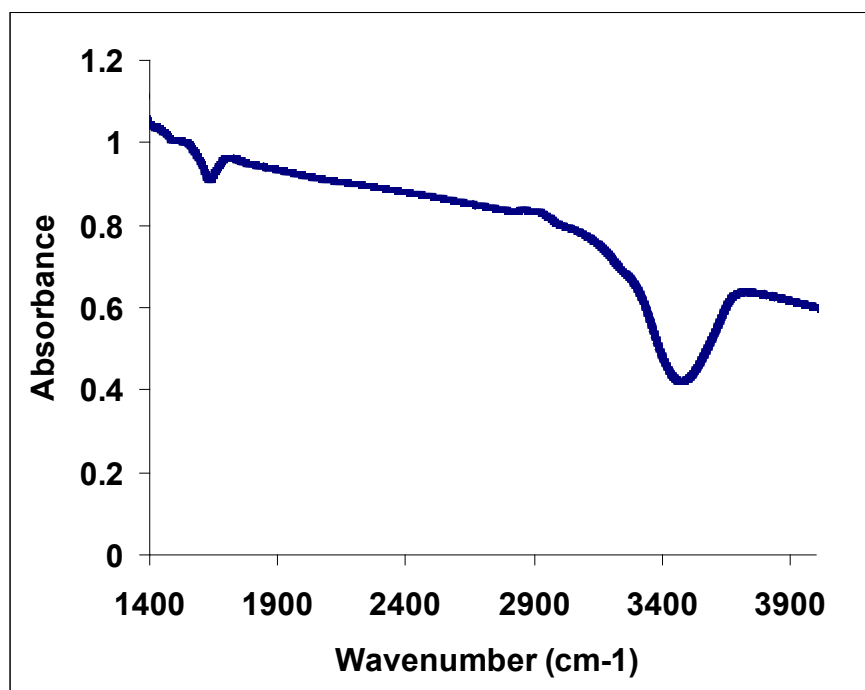
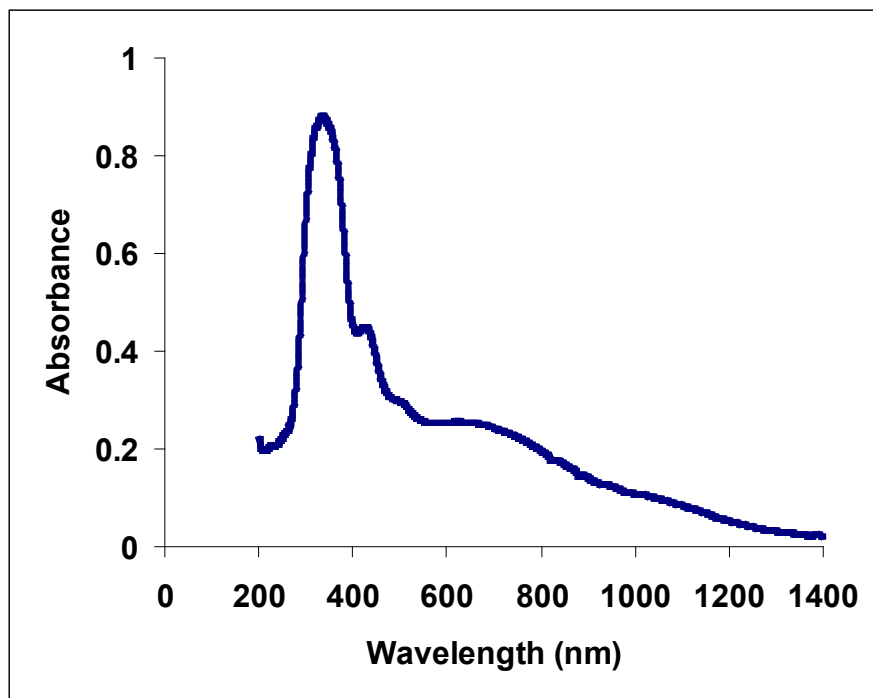
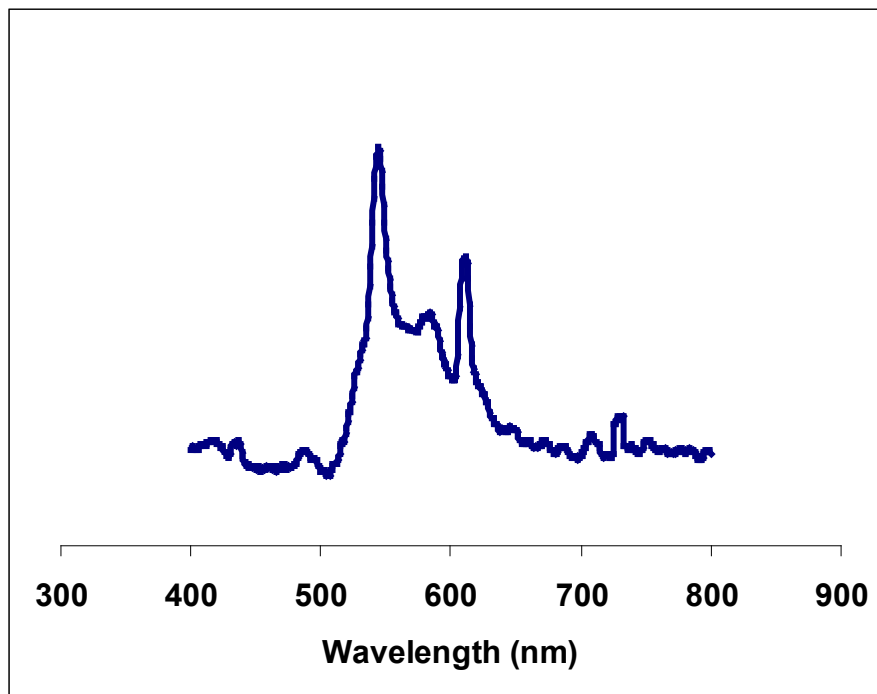


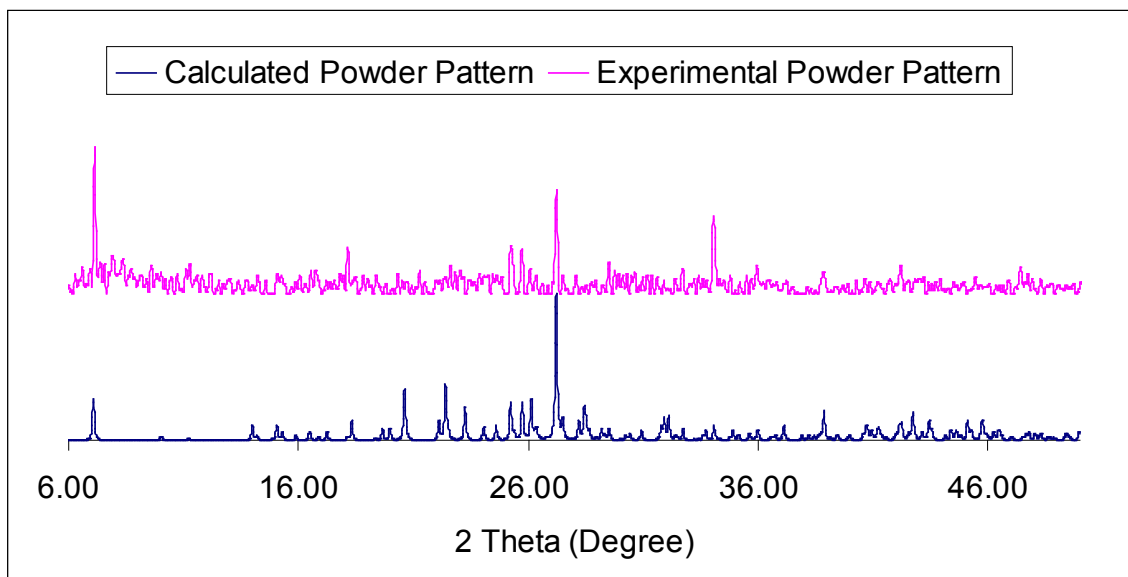
Figure S2. FTIR spectrum of **BaBPU1** (1400-4000cm<sup>-1</sup>)



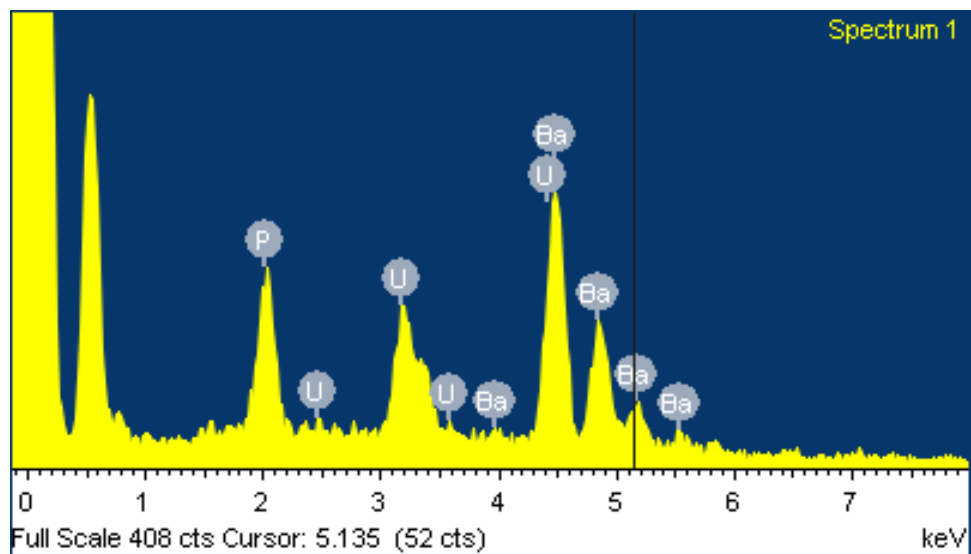
**Figure S3.** UV-vis-NIR spectrum of single crystal of **BaBPU1**



**Figure S4.** Fluorescence spectrum of single crystal of **BaBPU1**



**Figure S5.** Calculated and experimental powder pattern of **BaBPU1**



**Figure S6.** Typical EDS spectrum of **BaBPUI**

**Table S1:** Atomic ratios of **BaBPUI** according to EDS (U is kept as 1)

Spot	Ba	P	U
1.	4.22	3	1
2.	5.02	2.83	1
3.	3.61	1.78	1
4.	2.63	2.06	1
5.	4.22	3.00	1
6.	4.44	2.15	1
7.	5.33	2.47	1
8.	4.80	3.11	1
Average	4.28	2.55	1