

## Supporting Information

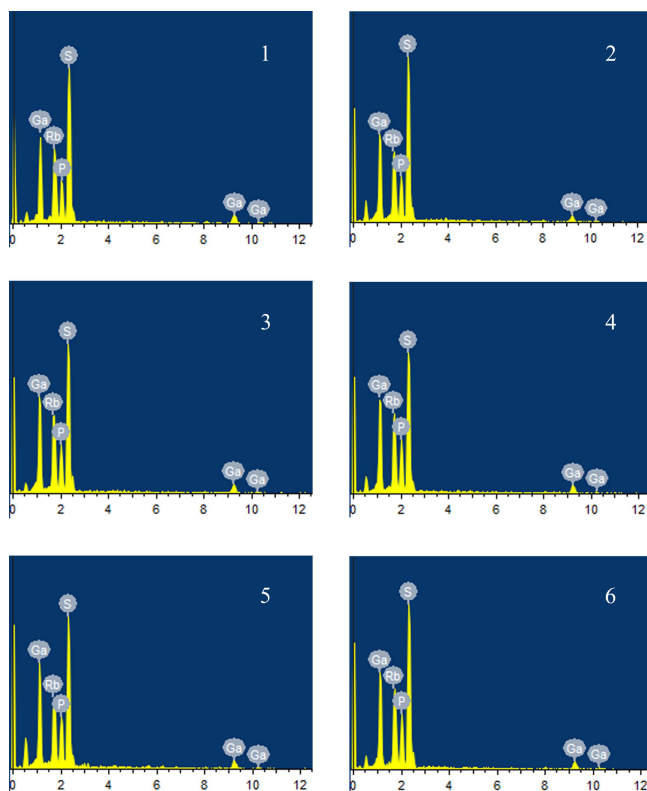
### Synthesis and Nonlinear Optical Properties of New Gallium Thiophosphate

#### $\text{Rb}_2\text{Ga}_2\text{P}_2\text{S}_9$

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**Fig. S1.** EDX spectrum of 1.

**Table S1.** Atomic coordinates ( $\times 10^{-4}$ ) for **1**.

atoms	x	y	z
Rb(1)	0	978(1)	6932(1)
Rb(2)	0	6138(1)	3484(1)
Ga(1)	2421(1)	2965(1)	3898(1)
P(1)	0	3104(1)	750(2)
P(2)	0	577(1)	2700(2)
S(1)	2412(2)	1017(1)	3748(1)
S(2)	0	1320(1)	718(2)
S(3)	0	3584(1)	5161(2)
S(4)	0	6493(2)	0(2)
S(5)	2414(2)	3692(1)	1678(1)
S(6)	0	3443(1)	8765(2)
S(7)	0	8970(2)	2259(2)