

## Electronic Supplementary Information (ESI)

### **KNa<sub>2</sub>La<sub>2</sub>(BO<sub>3</sub>)<sub>3</sub>: A Shortite-Type Lanthanide Borate Exhibiting Strong Nonlinear Optical Activities Induced by Isolated [BO<sub>3</sub>] triangles and Distorted [LaO<sub>9</sub>] Polyhedra**

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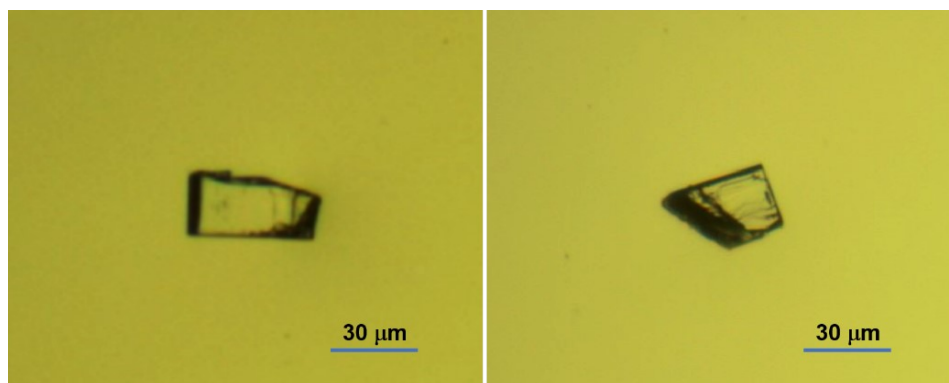


Fig S1. The as-grown  $\text{KNa}_2\text{La}_2(\text{BO}_3)_3$  crystals by using a flux method.

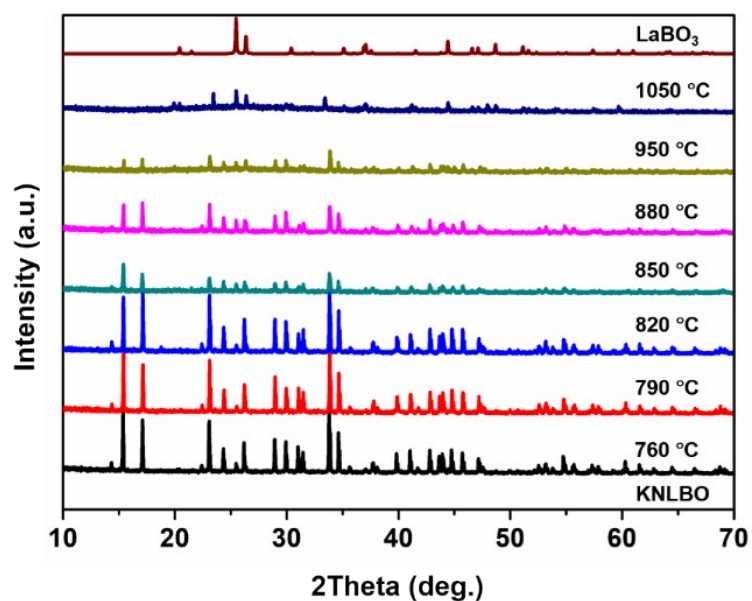


Fig S2. The variable temperature PXRD measurement ranging from 760 to 1050 °C for  $\text{KNa}_2\text{La}_2(\text{BO}_3)_3$ .

**Table S1.** Atomic coordinates and equivalent isotropic atomic displacement parameters ( $\text{\AA}^2$ ) for  $\text{KNa}_2\text{La}_2(\text{BO}_3)_3$ .

Atoms	x	y	z	U(eq)
La(1)	0	7136(1)	7051(1)	6(1)
K(1)	5000	5000	3138(8)	23(1)
Na(1)	5000	5000	7987(11)	7(2)
Na(2)	0	5000	10587(15)	16(2)
O(1)	0	6037(10)	3895(16)	9(2)
O(2)	7346(15)	1545(8)	4951(11)	10(1)
O(3)	5000	3179(12)	6190(17)	16(2)
O(4)	0	5000	6710(20)	14(4)
B(1)	5000	2120(14)	5310(20)	10(3)
B(2)	0	5000	4800(30)	10(4)

**Table 2.** Bond lengths [ $\text{\AA}$ ] and angles [ $^\circ$ ] for  $\text{KNa}_2\text{La}_2(\text{BO}_3)_3$ .

La(1)-O(1)	2.492(10)	O(2)4-Na(1)-B(1)2	104.1(4)
La(1)-O(1)	2.628(12)	O(2)-Na(1)-B(1)3	104.1(4)
La(1)-O(2)	2.618(8)	O(2)-Na(1)-B(1)2	28.37(19)
La(1)-O(2)	2.558(8)	O(3)-Na(1)-Na(2)	108.32(19)
La(1)-O(2)	2.558(8)	O(3)-Na(1)-Na(2)	108.32(19)
La(1)-O(2)	2.618(8)	O(3)-Na(1)-Na(2)	108.32(19)
La(1)-O(3)	2.696(4)	O(3)-Na(1)-Na(2)	108.32(19)
La(1)-O(3)	2.696(4)	O(3)-Na(1)-O(2)4	73.4(3)
La(1)-O(4)	2.4639(17)	O(3)-Na(1)-O(2)	73.4(3)
La(1)-B(1)	3.014(9)	O(3)-Na(1)-O(2)2	151.1(2)
La(1)-B(1)	3.014(9)	O(3)-Na(1)-O(2)	151.1(2)
La(1)-B(2)	2.951(14)	O(3)-Na(1)-O(2)4	151.1(2)
K(1)-O(1)	2.909(5)	O(3)-Na(1)-O(2)3	151.1(2)
K(1)-O(1)	2.909(5)	O(3)-Na(1)-O(2)3	73.4(3)
K(1)-O(1)	2.909(5)	O(3)-Na(1)-O(2)2	73.4(3)
K(1)-O(1)	2.909(5)	O(3)-Na(1)-O(3)	115.7(7)
K(1)-O(2)	3.170(10)	O(3)-Na(1)-O(4)	79.6(2)
K(1)-O(2)	3.170(10)	O(3)-Na(1)-O(4)	79.6(2)
K(1)-O(2)0	3.170(10)	O(3)-Na(1)-O(4)	79.6(2)
K(1)-O(2)1	3.170(10)	O(3)-Na(1)-O(4)	79.6(2)
K(1)-O(3)	3.056(15)	O(3)-Na(1)-B(1)2	177.2(6)
K(1)-O(3)	3.056(15)	O(3)-Na(1)-B(1)3	177.2(6)
K(1)-B(2)	2.867(11)	O(3)-Na(1)-B(1)2	67.1(4)
K(1)-B(2)	2.867(11)	O(3)-Na(1)-B(1)3	67.1(4)
Na(1)-Na(2)	3.218(8)	O(4)-Na(1)-Na(2)	163.6(4)
Na(1)-Na(2)	3.218(8)	O(4)-Na(1)-Na(2)	163.6(4)
Na(1)-O(2)2	2.586(9)	O(4)-Na(1)-Na(2)	56.0(3)
Na(1)-O(2)3	2.586(9)	O(4)-Na(1)-Na(2)	56.0(3)
Na(1)-O(2)	2.586(9)	O(4)-Na(1)-O(4)	140.4(7)
Na(1)-O(2)4	2.586(9)	O(4)-Na(1)-B(1)2	101.20(19)
Na(1)-O(3)	2.468(13)	O(4)-Na(1)-B(1)3	101.20(19)
Na(1)-O(3)	2.468(13)	O(4)-Na(1)-B(1)2	101.20(19)
Na(1)-O(4)	2.760(6)	O(4)-Na(1)-B(1)3	101.20(19)
Na(1)-O(4)	2.760(6)	B(1)2-Na(1)-Na(2)	70.2(2)
Na(1)-B(1)2	2.967(19)	B(1)2-Na(1)-Na(2)	70.2(2)
Na(1)-B(1)3	2.967(19)	B(1)3-Na(1)-Na(2)	70.2(2)
Na(2)-O(1)5	2.694(16)	B(1)3-Na(1)-Na(2)	70.2(2)
Na(2)-O(1)6	2.694(16)	B(1)2-Na(1)-B(1)3	110.1(7)
Na(2)-O(2)	2.293(9)	K(1)6-Na(2)-K(1)8	108.7(4)
Na(2)-O(2)3	2.293(9)	K(1)8-Na(2)-Na(1)9	71.87(15)
Na(2)-O(2)	2.293(9)	K(1)6-Na(2)-Na(1)	71.87(15)
Na(2)-O(2)7	2.293(9)	K(1)6-Na(2)-Na(1)9	179.5(4)
O(1)-B(2)	1.361(16)	O(1)6-Na(2)-K(1)6	58.45(19)

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O(2)-B(1)	1.410(11)	O(1)5-Na(2)-K(1)8	58.45(19)
O(3)-B(1)	1.37(2)	O(1)6-Na(2)-K(1)8	58.45(19)
O(4)-B(2)	1.39(3)	O(1)5-Na(2)-K(1)6	58.45(19)
O(1)-La(1)-O(1)	151.4(3)	O(1)6-Na(2)-Na(1)9	122.00(16)
O(1)-La(1)-O(2)	77.3(3)	O(1)5-Na(2)-Na(1)	122.00(16)
O(1)-La(1)-O(2)	80.0(3)	O(1)5-Na(2)-Na(1)9	122.00(17)
O(1)-La(1)-O(2)	80.0(3)	O(1)6-Na(2)-Na(1)	122.00(16)
O(1)-La(1)-O(2)	77.3(3)	O(1)6-Na(2)-O(1)5	52.4(5)
O(1)-La(1)-O(3)	103.8(3)	O(1)6-Na(2)-O(4)	153.8(2)
O(1)-La(1)-O(3)	74.4(3)	O(1)5-Na(2)-O(4)	153.8(2)
O(1)-La(1)-O(3)	103.8(3)	O(1)6-Na(2)-B(2)6	26.2(2)
O(1)-La(1)-O(3)	74.4(3)	O(1)5-Na(2)-B(2)6	26.2(2)
O(1)-La(1)-B(1)	89.4(3)	O(2)-Na(2)-K(1)8	68.3(2)
O(1)-La(1)-B(1)	89.4(3)	O(2)3-Na(2)-K(1)8	127.3(3)
O(1)-La(1)-B(1)	76.5(3)	O(2)3-Na(2)-K(1)6	68.3(2)
O(1)-La(1)-B(1)	76.5(3)	O(2)-Na(2)-K(1)6	127.3(3)
O(1)-La(1)-B(2)	27.5(5)	O(2)7-Na(2)-K(1)6	127.3(3)
O(1)-La(1)-B(2)	178.9(5)	O(2)7-Na(2)-K(1)8	68.3(2)
O(2)-La(1)-O(1)	76.0(3)	O(2)-Na(2)-K(1)6	68.3(2)
O(2)-La(1)-O(1)	76.0(3)	O(2)-Na(2)-K(1)8	127.3(3)
O(2)-La(1)-O(1)	125.9(3)	O(2)-Na(2)-Na(1)9	111.4(4)
O(2)-La(1)-O(1)	125.9(3)	O(2)-Na(2)-Na(1)	111.4(4)
O(2)-La(1)-O(2)	63.6(3)	O(2)3-Na(2)-Na(1)	52.8(2)
O(2)-La(1)-O(2)	65.2(4)	O(2)-Na(2)-Na(1)9	52.8(2)
O(2)-La(1)-O(2)	157.33(19)	O(2)3-Na(2)-Na(1)9	111.4(4)
O(2)-La(1)-O(2)	157.33(19)	O(2)7-Na(2)-Na(1)9	52.8(2)
O(2)-La(1)-O(2)	110.8(3)	O(2)-Na(2)-Na(1)	52.8(2)
O(2)-La(1)-O(2)	110.8(3)	O(2)7-Na(2)-Na(1)	111.4(4)
O(2)-La(1)-O(3)	131.4(3)	O(2)-Na(2)-O(1)5	121.5(4)
O(2)-La(1)-O(3)	54.6(3)	O(2)7-Na(2)-O(1)5	80.8(3)
O(2)-La(1)-O(3)	69.3(3)	O(2)-Na(2)-O(1)5	121.5(4)
O(2)-La(1)-O(3)	54.6(3)	O(2)3-Na(2)-O(1)6	121.5(4)
O(2)-La(1)-O(3)	131.4(3)	O(2)-Na(2)-O(1)6	80.8(3)
O(2)-La(1)-O(3)	117.3(3)	O(2)-Na(2)-O(1)6	80.8(3)
O(2)-La(1)-O(3)	117.3(3)	O(2)7-Na(2)-O(1)6	121.5(4)
O(2)-La(1)-O(3)	69.3(3)	O(2)3-Na(2)-O(1)5	80.8(3)
O(2)-La(1)-B(1)	27.8(3)	O(2)7-Na(2)-O(2)	101.2(4)
O(2)-La(1)-B(1)	150.3(4)	O(2)7-Na(2)-O(2)	156.6(7)
O(2)-La(1)-B(1)	150.3(4)	O(2)-Na(2)-O(2)	73.9(4)
O(2)-La(1)-B(1)	87.8(4)	O(2)3-Na(2)-O(2)	156.6(7)
O(2)-La(1)-B(1)	87.8(4)	O(2)7-Na(2)-O(2)3	73.9(4)
O(2)-La(1)-B(1)	92.5(4)	O(2)-Na(2)-O(4)	78.3(3)
O(2)-La(1)-B(1)	27.8(3)	O(2)7-Na(2)-O(4)	78.3(3)
O(2)-La(1)-B(2)	103.6(4)	O(2)-Na(2)-O(4)	78.3(3)

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O(2)-La(1)-B(2)	99.0(4)	O(2)3-Na(2)-O(4)	78.3(3)
O(2)-La(1)-B(2)	103.6(4)	O(2)7-Na(2)-B(2)6	101.7(3)
O(2)-La(1)-B(2)	99.0(4)	O(2)-Na(2)-B(2)6	101.7(3)
O(3)-La(1)-O(3)	148.8(6)	O(2)3-Na(2)-B(2)6	101.7(3)
O(3)-La(1)-B(1)	27.1(4)	O(2)-Na(2)-B(2)6	101.7(3)
O(3)-La(1)-B(1)	140.3(4)	O(4)-Na(2)-K(1)6	125.67(18)
O(3)-La(1)-B(1)	140.3(4)	O(4)-Na(2)-K(1)8	125.67(18)
O(3)-La(1)-B(1)	27.1(4)	O(4)-Na(2)-Na(1)	53.8(2)
O(3)-La(1)-B(2)	76.0(3)	O(4)-Na(2)-Na(1)9	53.8(2)
O(3)-La(1)-B(2)	76.0(3)	O(4)-Na(2)-B(2)6	180
O(4)-La(1)-O(1)	153.1(4)	B(2)6-Na(2)-K(1)8	54.33(18)
O(4)-La(1)-O(1)	55.5(4)	B(2)6-Na(2)-K(1)6	54.33(18)
O(4)-La(1)-O(2)	121.8(3)	B(2)6-Na(2)-Na(1)9	126.2(2)
O(4)-La(1)-O(2)	79.9(3)	B(2)6-Na(2)-Na(1)	126.2(2)
O(4)-La(1)-O(2)	79.9(3)	La(1)0-O(1)-La(1)	94.1(4)
O(4)-La(1)-O(2)	121.8(3)	La(1)-O(1)-K(1)	111.3(3)
O(4)-La(1)-O(3)	81.0(3)	La(1)0-O(1)-K(1)9	103.9(2)
O(4)-La(1)-O(3)	81.0(3)	La(1)-O(1)-K(1)9	111.3(3)
O(4)-La(1)-B(1)	103.8(3)	La(1)0-O(1)-K(1)	103.9(2)
O(4)-La(1)-B(1)	103.8(3)	La(1)0-O(1)-Na(2)1	83.4(3)
O(4)-La(1)-B(2)	28.0(5)	La(1)-O(1)-Na(2)1	177.5(4)
B(1)-La(1)-B(1)	119.0(6)	K(1)9-O(1)-K(1)	126.4(4)
B(2)-La(1)-B(1)	90.0(4)	Na(2)1-O(1)-K(1)9	69.4(3)
B(2)-La(1)-B(1)	90.0(4)	Na(2)1-O(1)-K(1)	69.4(3)
O(1)-K(1)-O(1)	158.1(5)	B(2)-O(1)-La(1)0	176.3(13)
O(1)-K(1)-O(1)	48.3(4)	B(2)-O(1)-La(1)	89.6(11)
O(1)-K(1)-O(1)	126.4(4)	B(2)-O(1)-K(1)9	74.6(5)
O(1)-K(1)-O(1)	48.3(4)	B(2)-O(1)-K(1)	74.6(5)
O(1)-K(1)-O(1)	126.4(4)	B(2)-O(1)-Na(2)1	92.9(11)
O(1)-K(1)-O(1)	158.1(5)	La(1)-O(2)-La(1)2	92.8(3)
O(1)-K(1)-O(2)1	135.3(3)	La(1)2-O(2)-K(1)3	160.4(3)
O(1)-K(1)-O(2)	135.3(3)	La(1)-O(2)-K(1)3	95.6(2)
O(1)-K(1)-O(2)1	91.5(3)	La(1)-O(2)-Na(1)4	172.9(4)
O(1)-K(1)-O(2)1	104.7(3)	Na(1)4-O(2)-La(1)2	88.6(3)
O(1)-K(1)-O(2)	64.4(3)	Na(1)4-O(2)-K(1)3	81.0(3)
O(1)-K(1)-O(2)	64.4(3)	Na(2)2-O(2)-La(1)	90.7(3)
O(1)-K(1)-O(2)0	64.4(3)	Na(2)2-O(2)-La(1)2	92.8(3)
O(1)-K(1)-O(2)1	64.4(3)	Na(2)2-O(2)-K(1)3	69.5(3)
O(1)-K(1)-O(2)	135.3(3)	Na(2)2-O(2)-Na(1)4	82.3(3)
O(1)-K(1)-O(2)	104.7(3)	B(1)-O(2)-La(1)	94.4(7)
O(1)-K(1)-O(2)0	135.3(3)	B(1)-O(2)-La(1)2	119.0(8)
O(1)-K(1)-O(2)0	91.5(3)	B(1)-O(2)-K(1)3	78.0(7)
O(1)-K(1)-O(2)	91.5(3)	B(1)-O(2)-Na(1)4	91.0(7)
O(1)-K(1)-O(2)0	104.7(3)	B(1)-O(2)-Na(2)2	147.4(8)

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O(1)-K(1)-O(2)	104.7(3)	La(1)-O(3)-La(1)	148.8(6)
O(1)-K(1)-O(2)	91.5(3)	La(1)-O(3)-K(1)	105.2(3)
O(1)-K(1)-O(3)	98.1(3)	La(1)-O(3)-K(1)	105.2(3)
O(1)-K(1)-O(3)	98.1(3)	Na(1)-O(3)-La(1)	89.4(3)
O(1)-K(1)-O(3)	65.3(2)	Na(1)-O(3)-La(1)	89.4(3)
O(1)-K(1)-O(3)	65.3(2)	Na(1)-O(3)-K(1)	79.0(4)
O(1)-K(1)-O(3)	98.1(3)	B(1)-O(3)-La(1)	89.4(4)
O(1)-K(1)-O(3)	98.1(3)	B(1)-O(3)-La(1)	89.4(4)
O(1)-K(1)-O(3)	65.3(2)	B(1)-O(3)-K(1)	105.3(9)
O(1)-K(1)-O(3)	65.3(2)	B(1)-O(3)-Na(1)	175.7(11)
O(2)1-K(1)-O(2)	68.0(3)	La(1)-O(4)-La(1)	168.3(7)
O(2)1-K(1)-O(2)	85.4(3)	La(1)-O(4)-Na(1)9	88.02(15)
O(2)0-K(1)-O(2)	68.0(3)	La(1)-O(4)-Na(1)9	88.02(15)
O(2)1-K(1)-O(2)0	45.2(3)	La(1)-O(4)-Na(1)	88.02(15)
O(2)0-K(1)-O(2)	85.4(3)	La(1)-O(4)-Na(1)	88.02(15)
O(2)-K(1)-O(2)	45.2(3)	La(1)-O(4)-Na(2)	84.1(3)
O(3)-K(1)-O(2)	98.9(3)	La(1)-O(4)-Na(2)	84.1(3)
O(3)-K(1)-O(2)0	98.9(3)	Na(1)-O(4)-Na(1)9	140.4(7)
O(3)-K(1)-O(2)	156.69(16)	Na(1)-O(4)-Na(2)	70.2(3)
O(3)-K(1)-O(2)0	156.69(16)	Na(1)9-O(4)-Na(2)	70.2(3)
O(3)-K(1)-O(2)1	156.69(16)	B(2)-O(4)-La(1)	95.9(3)
O(3)-K(1)-O(2)1	98.9(3)	B(2)-O(4)-La(1)	95.9(3)
O(3)-K(1)-O(2)	156.69(16)	B(2)-O(4)-Na(1)9	109.8(3)
O(3)-K(1)-O(2)	98.9(3)	B(2)-O(4)-Na(1)	109.8(3)
O(3)-K(1)-O(3)	86.3(5)	B(2)-O(4)-Na(2)	180
B(2)-K(1)-O(1)	27.2(3)	La(1)-B(1)-La(1)	119.0(6)
B(2)-K(1)-O(1)	136.7(5)	La(1)-B(1)-K(1)3	86.7(4)
B(2)-K(1)-O(1)	27.2(3)	La(1)-B(1)-K(1)3	86.7(4)
B(2)-K(1)-O(1)	27.2(3)	Na(1)4-B(1)-La(1)	118.3(3)
B(2)-K(1)-O(1)	27.2(3)	Na(1)4-B(1)-La(1)	118.3(3)
B(2)-K(1)-O(1)	136.7(5)	Na(1)4-B(1)-K(1)3	75.3(4)
B(2)-K(1)-O(1)	136.7(5)	O(2)5-B(1)-La(1)	162.8(10)
B(2)-K(1)-O(1)	136.7(5)	O(2)-B(1)-La(1)	162.8(10)
B(2)-K(1)-O(2)1	87.9(4)	O(2)-B(1)-La(1)	57.8(5)
B(2)-K(1)-O(2)	131.3(4)	O(2)5-B(1)-La(1)	57.8(5)
B(2)-K(1)-O(2)0	131.3(4)	O(2)5-B(1)-K(1)3	76.4(7)
B(2)-K(1)-O(2)	87.9(4)	O(2)-B(1)-K(1)3	76.4(7)
B(2)-K(1)-O(2)0	87.9(4)	O(2)-B(1)-Na(1)4	60.6(7)
B(2)-K(1)-O(2)	131.3(4)	O(2)5-B(1)-Na(1)4	60.6(7)
B(2)-K(1)-O(2)	87.9(4)	O(2)-B(1)-O(2)5	119.5(13)
B(2)-K(1)-O(2)1	131.3(4)	O(3)-B(1)-La(1)	63.4(4)
B(2)-K(1)-O(3)	72.0(3)	O(3)-B(1)-La(1)	63.4(4)
B(2)-K(1)-O(3)	72.0(3)	O(3)-B(1)-K(1)3	111.8(11)
B(2)-K(1)-O(3)	72.0(3)	O(3)-B(1)-Na(1)4	172.9(12)

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B(2)-K(1)-O(3)	72.0(3)	O(3)-B(1)-O(2)	120.1(7)
B(2)-K(1)-B(2)	129.8(9)	O(3)-B(1)-O(2)5	120.1(7)
Na(2)-Na(1)-Na(2)	107.6(4)	La(1)-B(2)-La(1)	112.3(8)
O(2)-Na(1)-Na(2)	44.9(2)	La(1)-B(2)-Na(2)1	123.8(4)
O(2)-Na(1)-Na(2)	93.0(3)	La(1)-B(2)-Na(2)1	123.8(4)
O(2)2-Na(1)-Na(2)	44.9(2)	K(1)-B(2)-La(1)	103.66(11)
O(2)4-Na(1)-Na(2)	44.9(2)	K(1)-B(2)-La(1)	103.66(11)
O(2)3-Na(1)-Na(2)	93.0(3)	K(1)9-B(2)-La(1)	103.66(11)
O(2)2-Na(1)-Na(2)	93.0(3)	K(1)9-B(2)-La(1)	103.66(11)
O(2)4-Na(1)-Na(2)	93.0(3)	K(1)9-B(2)-K(1)	129.8(9)
O(2)3-Na(1)-Na(2)	44.9(2)	K(1)9-B(2)-Na(2)1	64.9(5)
O(2)-Na(1)-O(2)4	112.6(5)	K(1)-B(2)-Na(2)1	64.9(5)
O(2)-Na(1)-O(2)3	86.5(4)	O(1)-B(2)-La(1)	175.2(15)
O(2)2-Na(1)-O(2)	56.2(4)	O(1)-B(2)-La(1)	62.9(8)
O(2)2-Na(1)-O(2)3	112.6(5)	O(1)-B(2)-La(1)	175.2(15)
O(2)3-Na(1)-O(2)4	56.2(4)	O(1)-B(2)-La(1)	62.9(8)
O(2)2-Na(1)-O(2)4	86.5(4)	O(1)-B(2)-K(1)	78.1(6)
O(2)-Na(1)-O(4)	129.2(2)	O(1)-B(2)-K(1)9	78.1(6)
O(2)3-Na(1)-O(4)	129.2(2)	O(1)-B(2)-K(1)	78.1(6)
O(2)2-Na(1)-O(4)	75.2(3)	O(1)-B(2)-K(1)9	78.1(6)
O(2)3-Na(1)-O(4)	75.2(3)	O(1)-B(2)-Na(2)1	60.9(11)
O(2)2-Na(1)-O(4)	129.2(2)	O(1)-B(2)-Na(2)1	60.9(11)
O(2)-Na(1)-O(4)	75.2(3)	O(1)-B(2)-O(1)	122(2)
O(2)4-Na(1)-O(4)	75.2(3)	O(1)-B(2)-O(4)	119.1(11)
O(2)4-Na(1)-O(4)	129.2(2)	O(1)-B(2)-O(4)	119.1(11)
O(2)2-Na(1)-B(1)2	28.37(19)	O(4)-B(2)-La(1)	56.2(4)
O(2)3-Na(1)-B(1)2	104.1(4)	O(4)-B(2)-La(1)	56.2(4)
O(2)2-Na(1)-B(1)3	104.1(4)	O(4)-B(2)-K(1)	115.1(5)
O(2)3-Na(1)-B(1)3	28.37(19)	O(4)-B(2)-K(1)9	115.1(5)
O(2)4-Na(1)-B(1)3	28.37(19)	O(4)-B(2)-Na(2)1	180

Symmetry transformations used to generate equivalent atoms:

#1 $-x, -y+3/2, z+1/2$	#2 $x-1, y+1/2, z+1/2$	#3 $x-1, -y+1, z$
#4 $-x+1, -y+1, z$	#5 $-x+1, y+1/2, z+1/2$	#6 $-x, -y+1, z$
#7 $x+1, y, z$	#8 $x, y+1/2, z-1/2$	#9 $-x+1, y+1/2, z-1/2$
#10 $x, -y+1/2, z-1/2$	#11 $-x+1, -y+1/2, z-1/2$	#12 $x, y+1/2, z+1/2$
#13 $-x+1, -y+1/2, z+1/2$	#14 $x, -y+1/2, z+1/2$	#15 $-x, -y+1, z+1$
#16 $x, y, z+1$	#17 $x-1, -y+1/2, z+1/2$	#18 $x-1, y, z+1$
#19 $x-1, y, z$	#20 $-x, -y+3/2, z-1/2$	#21 $x, y, z-1$
#22 $x+1, y-1/2, z-1/2$	#23 $x, y-1/2, z+1/2$	#24 $x, y-1/2, z-1/2$
#25 $-x+1, y, z$		

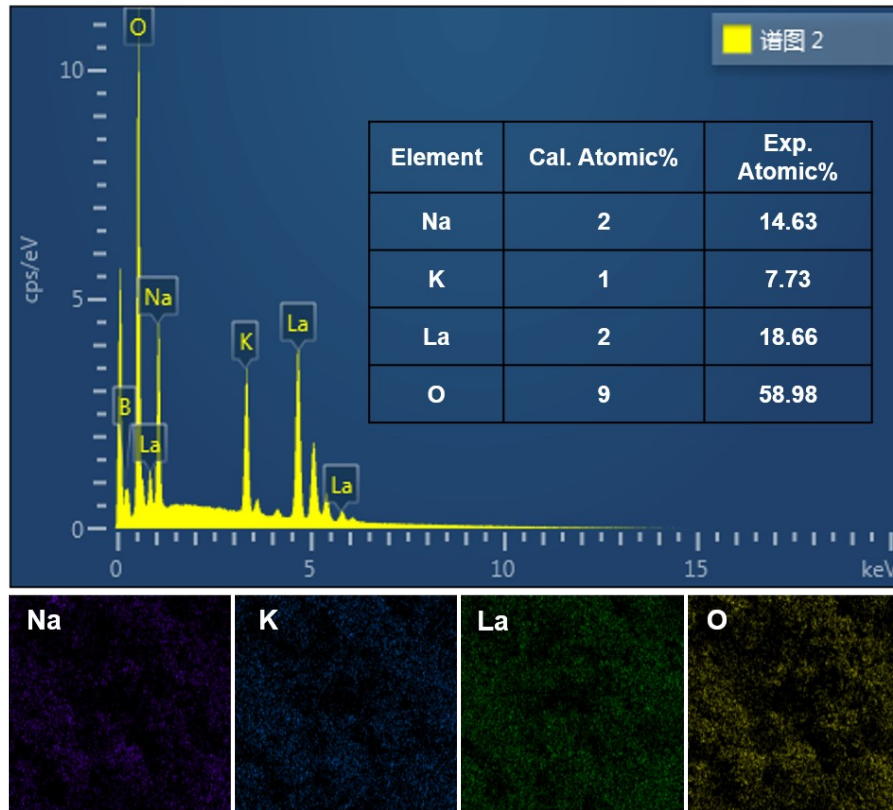


Fig S3. EDS spectrum of the  $\text{KNa}_2\text{La}_2(\text{BO}_3)_3$  compound and the corresponding average Na/K/La/O molar ratio.

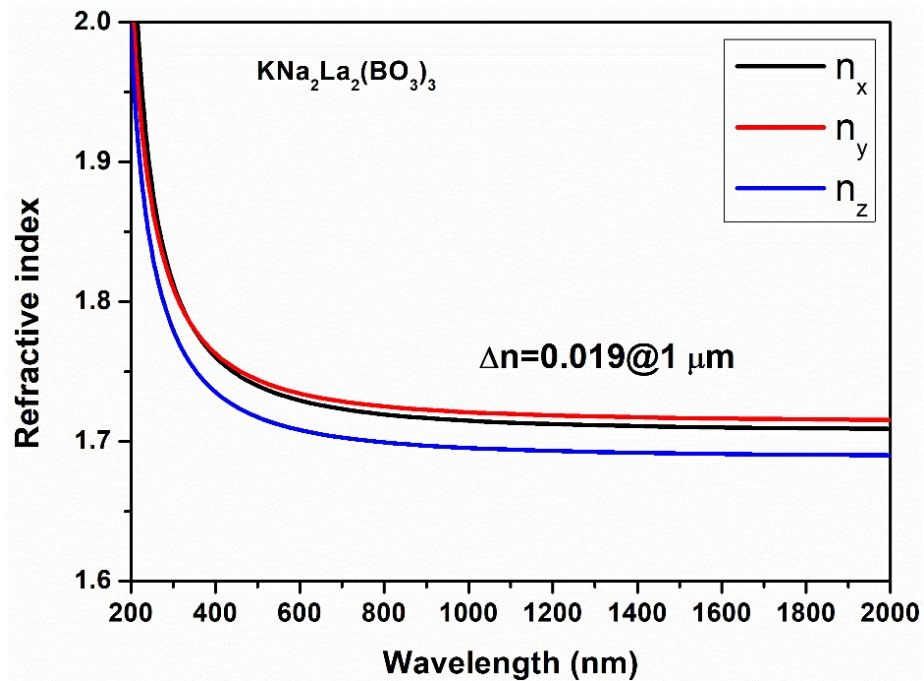


Fig S4. The calculated birefringence curves for  $\text{KNa}_2\text{La}_2(\text{BO}_3)_3$ .