

Element	Crystal	1 st Bkgd	2 nd Bkgd	Slope	Standard	Notes
Al	TAP	+800	none	1.2	Orthoclase	
As	LIF	+500	-500		Fe2As	
B	PC2	+5500	-2900		Boron Nitride	
Ba La	PET	+400	-400		Barite	If Ti is present use: +800 -1530
Ba La	LIF	+500	-500		Barite	
Ca	PET	+700	none	1.1	Diopside	
Ce	PET	+600	-600		CePO4	
Ce	LIF	+660	-575		CePO4	
Cd	PET	+600	-600		Cd metal	
Cl	PET	+600	-600		Scapolite	
Co Ka	LIF	+400	-400		Co metal	
Co Kb	LIF	+500	-600		CoS	
Cr	PET	+500	-500		Cr2O3/MgCr2O4	If V is present use LIF crystal
Cr	LIF	+450	-450		Cr2O3/MgCr2O4	
Cs	LIF	+625	-675		CsV2O5	
Cu	LIF	+600	none	1.05	Cu metal	
F (Fe-bearing)	PCO	+1000	-5140		MgF2	
F (Fe-free)	PCO	+1700	-1700		MgF2	
Hf	LIF	+500	-400		HfSiO4	
Fe	LIF	+950	none	1.05	Fayalite	
Gd	LIF	+525	-625		GdPO4	
Hf	LIF	+600	-600		Hf metal	
K	PET	+600	-600		Orthoclase	
La	LIF	+800	-600		LaPO4	
Mg	TAP	+1150	-1150		MgO/diopside	
Mg	TAP	+1150	-950		Chromite	
Mn	LIF	+650	none	1.05	Rhodonite	Better separation with Cr Better counts than LIF
Mn	PET	+550	-550		Rhodonite	
Mo	PET	+1400	-1400		Mo metal	
Na	TAP	+800	-750		Albite	
Na	PCO	+1200	-1750		Albite	
Nb	PET	+1300	-1300		SrBaNb	

Sheet1

Nd	LIF	+600	-525		NdPO4	
Ni	LIF	+550	-550		Ni-diopside	
P	PET	+850	-850		Berlinite	
P	TAP	+550	-550		Berlinite	
Pb	PET	625	-575		Pyromorphite	
Rb La2	TAP	+750	-650		RbCaF3	Don't let the probe do a peak search - Set position 56912 manually
S	PET	+600	-600		Troilite/Barite	
Sb	PET	+500	-500		Sb metal	
Sc	PET	+700	-700		Sc metal	
Se	LIF	+500	-500		Se metal	
Si	TAP	+750	none	1.1	Diopside	
Sn	PET	+1000	-1000		SnO2	
Sr	PET	+1380	-2030		Strontianite	In apatite use: +800 -1000
Ta	LIF	+600	-600		KTaO3	
Ti	LIF	+625	-675		TiO2	If Ba present use: +1480 -515
Ti	PET	+600	none	1.05	TiO2	Better counts than LIF
Th Ma	PET	+575	-575		Th metal	
U	PET	+1400	-1400		U metal	
V	LIF	+650	-625		CsV2O5	
V	PET	+600	-600		CsV2O5	If Ti is present use: +255 -255
W	LIF	+1000	-600		CaWO4	
Y	PET	+1100	-1100		YPO4	
Zn	LIF	+600	-600		ZnO	
Zr	PET	+800	-800		ZrO	

PERIODIC TABLE

TAP

1 H																	2 He
3 Li	4 Be																
11 Na	12 Mg																
19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr
37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe
55 Cs	56 Ba	57 La	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn
87 Fr	88 Ra	89 Ac															
CAMECA			58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	
			90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr	

Ka	Kb	Ray Filter		
La	Lb	Lc	Li	Ln
Lb4	Lb3	Lb6	Lb2	Lb7
Lb10	Lb9	Lc2	Lc3	Lc4
Ma	Mb	Mc	Mz	

PERIODIC TABLE

PET

1 H																	2 He
3 Li	4 Be																
11 Na	12 Mg																
19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr
37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe
55 Cs	56 Ba	57 La	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn
87 Fr	88 Ra	89 Ac															
CAMECA			58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	
			90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr	

Ka	Kb	Ray Filter		
La	Lb	Lc	Li	Ln
Lb4	Lb3	Lb6	Lb2	Lb7
Lb10	Lb9	Lc2	Lc3	Lc4
Ma	Mb	Mc	Mz	

5 B	6 C	7 N	8 O	9 F	10 Ne
13 Al	14 Si	15 P	16 S	17 Cl	18 Ar

PERIODIC TABLE

LIF

1 H		Ka Kb Ray Filter La Lb Lc Li Ln Lb4 Lb3 Lb6 Lb2 Lb7 Lb10 Lb9 Lc2 Lc3 Lc4 Ma Mb Mc Mz																2 He																							
3 Li		4 Be																		5 B		6 C		7 N		8 O		9 F		10 Ne											
11 Na		12 Mg																		13 Al		14 Si		15 P		16 S		17 Cl		18 Ar											
19 K		20 Ca		21 Sc		22 Ti		23 V		24 Cr		25 Mn		26 Fe		27 Co		28 Ni		29 Cu		30 Zn		31 Ga		32 Ge		33 As		34 Se		35 Br		36 Kr							
37 Rb		38 Sr		39 Y		40 Zr		41 Nb		42 Mo		43 Tc		44 Ru		45 Rh		46 Pd		47 Ag		48 Cd		49 In		50 Sn		51 Sb		52 Te		53 I		54 Xe							
55 Cs		56 Ba		57 La		72 Hf		73 Ta		74 W		75 Re		76 Os		77 Ir		78 Pt		79 Au		80 Hg		81 Tl		82 Pb		83 Bi		84 Po		85 At		86 Rn							
87 Fr		88 Ra		89 Ac																																					
CAMECA				58 Ce		59 Pr		60 Nd		61 Pm		62 Sm		63 Eu		64 Gd		65 Tb		66 Dy		67 Ho		68 Er		69 Tm		70 Yb		71 Lu											
				90 Th		91 Pa		92 U		93 Np		94 Pu		95 Am		96 Cm		97 Bk		98 Cf		99 Es		100 Fm		101 Md		102 No		103 Lr											

PERIODIC TABLE

LPCO

1 H		Ka Kb Ray Filter La Lb Lc Ll Ln Lb4 Lb3 Lb6 Lb2 Lb7 Lb10 Lb9 Lc2 Lc3 Lc4 Ma Mb Mc Mz																2 He																							
3 Li		4 Be																		5 B		6 C		7 N		8 O		9 F		10 Ne											
11 Na		12 Mg																		13 Al		14 Si		15 P		16 S		17 Cl		18 Ar											
19 K		20 Ca		21 Sc		22 Ti		23 V		24 Cr		25 Mn		26 Fe		27 Co		28 Ni		29 Cu		30 Zn		31 Ga		32 Ge		33 As		34 Se		35 Br		36 Kr							
37 Rb		38 Sr		39 Y		40 Zr		41 Nb		42 Mo		43 Tc		44 Ru		45 Rh		46 Pd		47 Ag		48 Cd		49 In		50 Sn		51 Sb		52 Te		53 I		54 Xe							
55 Cs		56 Ba		57 La		72 Hf		73 Ta		74 W		75 Re		76 Os		77 Ir		78 Pt		79 Au		80 Hg		81 Tl		82 Pb		83 Bi		84 Po		85 At		86 Rn							
87 Fr		88 Ra		89 Ac																																					
CAMECA				58 Ce		59 Pr		60 Nd		61 Pm		62 Sm		63 Eu		64 Gd		65 Tb		66 Dy		67 Ho		68 Er		69 Tm		70 Yb		71 Lu											
				90 Th		91 Pa		92 U		93 Np		94 Pu		95 Am		96 Cm		97 Bk		98 Cf		99 Es		100 Fm		101 Md		102 No		103 Lr											

PERIODIC TABLE

PC1

1 H		KaKbRay Filter																2 He																	
3 Li		4 Be		La		Lb		Lc		Ll		Ln		5 B		6 C		7 N		8 O		9 F		10 Ne											
11 Na		12 Mg		Lb4		Lb3		Lb6		Lb2		Lb7		13 Al		14 Si		15 P		16 S		17 Cl		18 Ar											
				Lb10		Lb9		Lc2		Lc3		Lc4																							
				Ma		Mb		Mc		Mz																									
19 K		20 Ca		21 Sc		22 Ti		23 V		24 Cr		25 Mn		26 Fe		27 Co		28 Ni		29 Cu		30 Zn		31 Ga		32 Ge		33 As		34 Se		35 Br		36 Kr	
37 Rb		38 Sr		39 Y		40 Zr		41 Nb		42 Mo		43 Tc		44 Ru		45 Rh		46 Pd		47 Ag		48 Cd		49 In		50 Sn		51 Sb		52 Te		53 I		54 Xe	
55 Cs		56 Ba		57 La		72 Hf		73 Ta		74 W		75 Re		76 Os		77 Ir		78 Pt		79 Au		80 Hg		81 Tl		82 Pb		83 Bi		84 Po		85 At		86 Rn	
87 Fr		88 Ra		89 Ac																															
		CAMECA																																	

PERIODIC TABLE

PC2

1 H		Ka Kb Ray Filter La Lb Lc Li Ln Lb4 Lb3 Lb6 Lb2 Lb7 Lb10 Lb9 Lc2 Lc3 Lc4 Ma Mb Mc Mz																2 He																	
3 Li		4 Be																		5 B		6 C		7 N		8 O		9 F		10 Ne					
11 Na		12 Mg																		13 Al		14 Si		15 P		16 S		17 Cl		18 Ar					
19 K		20 Ca		21 Sc		22 Ti		23 V		24 Cr		25 Mn		26 Fe		27 Co		28 Ni		29 Cu		30 Zn		31 Ga		32 Ge		33 As		34 Se		35 Br		36 Kr	
37 Rb		38 Sr		39 Y		40 Zr		41 Nb		42 Mo		43 Tc		44 Ru		45 Rh		46 Pd		47 Ag		48 Cd		49 In		50 Sn		51 Sb		52 Te		53 I		54 Xe	
55 Cs		56 Ba		57 La		72 Hf		73 Ta		74 W		75 Re		76 Os		77 Ir		78 Pt		79 Au		80 Hg		81 Tl		82 Pb		83 Bi		84 Po		85 At		86 Rn	
87 Fr		88 Ra		89 Ac																															
CAMECA				58 Ce		59 Pr		60 Nd		61 Pm		62 Sm		63 Eu		64 Gd		65 Tb		66 Dy		67 Ho		68 Er		69 Tm		70 Yb		71 Lu					
				90 Th		91 Pa		92 U		93 Np		94 Pu		95 Am		96 Cm		97 Bk		98 Cf		99 Es		100 Fm		101 Md		102 No		103 Lr					