

X-RAY PERIODIC CHART

H 1 1.008		He 2 4.003																					
Li 3 6.939 Be 4 9.012		Atomic Symbol Atomic Number Atomic Weight Spectrum Wavelength Å Analyzing Crystal 2 Angle Excitation Voltage (KeV)										B 5 10.811 C 6 12.011 N 7 14.007 O 8 15.999 F 9 18.998 Ne 10 20.183											
Na 11 22.990 Mg 12 24.312		The PortaSpec® XBT is able to analyze all of the elements outlined in blue.										The PortaSpec® XLE is able to analyze all of the elements outlined in red.						Al 13 26.982 K 8.338 PET 144.67° 1.56 Si 14 28.086 K 7.126 PET 109.06° 1.84 P 15 30.974 K 6.155 Ge 140.87° 2.14 S 16 32.064 K 5.373 Ge 110.68° 2.47 Cl 17 35.453 K 4.729 Ge 92.76° 2.82 Ar 18 39.948					
K 19 39.102 K 3.724 LiF 136.68° 3.61 Ca 20 40.08 K 3.359 LiF 113.08° 4.04 Sc 21 44.956 K 3.032 LiF 97.71° 4.50 Ti 22 47.90 K 2.750 LiF 86.12° 4.95 V 23 50.942 K 2.505 LiF 76.92° 5.45 Cr 24 51.996 K 2.291 LiF 69.35° 5.98 Mn 25 54.938 K 2.103 LiF 62.97° 6.54 Fe 26 55.847 K 1.937 LiF 57.52° 7.10 Co 27 58.993 K 1.790 LiF 52.79° 7.71 Ni 28 58.71 K 1.659 LiF 48.67° 8.29 Cu 29 63.54 K 1.542 LiF 45.02° 8.86 Zn 30 65.37 K 1.436 LiF 41.81° 9.65 Ga 31 69.72 K 1.341 LiF 38.90° 10.4 Ge 32 72.59 K 1.255 LiF 36.34° 11.1 As 33 74.922 K 1.177 LiF 33.98° 11.9 Se 34 78.96 K 1.106 LiF 31.87° 12.7 Br 35 79.909 K 1.041 LiF 29.96° 13.5 Kr 36 83.80																							
Rb 37 85.47 K .9269 LiF 26.62° 15.7 Sr 38 87.62 K .8766 LiF 25.15° 16.1 Y 39 88.905 K .8302 LiF 23.80° 17.0 Zr 40 91.22 K .7873 L 6.0705 LiF 22.55° Ge 136.67° 18.0 2.55 Nb 41 92.906 K .7476 LiF 21.40° 19.0 Mo 42 95.94 K .7107 LiF 20.33° 20.0 Tc 43 99 K .6744 LiF 19.28° 21.1 Ru 44 101.07 K .6445 LiF 18.42° 22.1 Rh 45 102.905 K .6147 LiF 17.56° 23.2 Pd 46 106.4 K .5869 LiF 16.76° 24.4 Ag 47 107.870 K .5608 LiF 16.01° 25.5 Cd 48 112.40 In 49 114.82 Sn 50 118.69 Sb 51 121.75 Te 52 127.60 I 53 126.904 Xe 54 131.30																							
Cs 55 132.905 Ba 56 137.34 L 2.775 LiF 87.13° 6.00 La 57 138.91 L 2.665 LiF 82.88° 6.26 Hf 72 178.49 L 1.570 LiF 45.88° 11.3 Ta 73 180.948 L 1.522 LiF 44.41° 11.7 W 74 183.85 L 1.476 LiF 43.02° 12.1 Re 75 186.2 L 1.433 LiF 41.69° 12.5 Os 76 190.2 L 1.391 LiF 40.42° 13.0 Ir 77 192.2 L 1.351 LiF 39.22° 13.4 Pt 78 195.09 L 1.313 LiF 38.06° 13.9 Au 79 196.967 L 1.276 LiF 36.96° 14.4 Hg 80 200.59 L 1.241 LiF 35.90° 14.8 Tl 81 204.37 L 1.207 LiF 34.90° 15.3 Pb 82 207.19 L 1.175 LiF 33.92° 15.8 Bi 83 208.980 L 1.144 LiF 33.01° 16.4 Po 84 210 L 1.114 LiF 32.11° 16.9 At 85 210 L 1.085 LiF 31.26° 17.5 Rn 86 222																							
Fr 87 223 L 1.030 LiF 29.64° 18.6 Ra 88 226 L 1.005 LiF 28.90° 19.3 Ac 89 227 L .9799 LiF 28.17° 19.8		Ce 58 140.12 L 2.561 LiF 79.00° 6.54 Pr 59 140.907 L 2.463 LiF 75.44° 3.83 Nd 60 144.24 L 2.370 LiF 72.11° 7.12 Pm 61 147 L 2.282 LiF 69.07° 7.45 Sm 62 150.35 L 2.199 LiF 66.22° 7.73 Eu 63 151.96 L 2.121 LiF 63.56° 8.04 Gd 64 157.25 L 2.046 LiF 61.08° 8.37 Tb 65 158.924 L 1.976 LiF 58.76° 8.70 Dy 66 162.50 L 1.909 LiF 56.59° 9.03 Ho 67 164.930 L 1.845 LiF 54.53° 9.38 Er 68 167.26 L 1.784 LiF 52.61° 9.73 Tm 69 168.934 L 1.726 LiF 50.77° 10.1 Yb 70 173.04 L 1.672 LiF 49.06° 10.5 Lu 71 174.97 L 1.619 LiF 47.43° 10.9																					
		Th 90 232.038 L .956 LiF 27.47° 20.5 Pa 91 231 L .9328 LiF 26.79° 21.1 U 92 238.03 L .9105 LiF 26.14° 21.7 Np 93 237 Pu 94 244 Am 95 243 Cm 96 247 Bk 97 247 Cf 98 251 Es 99 254 Fm 100 253 Md 101 256 No 102 257 Lw 103 257																					