

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
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This file contains both E/λ data for elements, and calculated L-values for common crystals on JEOL EPMA's. Tabulated values contain data for n=1,2,3, for L-values between 65 and 260 mm (actual working range might be less depending on spectrometer/crystal configuration)

$$E(KeV) = \frac{12.396}{\lambda(\text{Å})}$$

$$L\text{-value} = n\lambda \frac{2R}{2d}$$

1	H	K	ABS	911.78259332	BB	0.014					
49	In	NIV	ABS	765.34074074	BB	0.016					
10	Ne	LII	ABS	677.51475410	BB	0.018					
10	Ne	LIII	ABS	677.51475410	BB	0.018					
82	Pb	OV	ABS	645.75625000	BB	0.019					
67	Ho	OIII	ABS	610.76453202	BB	0.020					
70	Yb	OIII	ABS	529.85128205	BB	0.023					
8	O	LI	ABS	523.14430380	BB	0.024					
50	Sn	NIV	ABS	518.76652720	BB	0.024					
36	Kr	NI	ABS	516.60500000	BB	0.024					
83	Bi	OV	ABS	508.13606557	BB	0.024					
2	He	K	ABS	504.27587508	BB	0.025					
73	Ta	NVI	ABS	495.94080000	BB	0.025					
73	Ta	NVII	ABS	495.94080000	BB	0.025					
18	Ar	MI	ABS	490.06007905	BB	0.025					
20	Ca	MII	ABS	488.13070866	BB	0.025					
39	Y	NII	ABS	484.31718750	BB	0.026					
83	Bi	OIV	ABS	467.86867925	BB	0.026					
35	Br	NI	ABS	454.15824176	BB	0.027					
71	Lu	OIII	ABS	442.80428571	BB	0.028					
40	Zr	NII	ABS	432.00418118	BB	0.029					
40	Zr	NIII	ABS	432.00418118	BB	0.029					
37	Rb	NI	ABS	423.15767918	BB	0.029					
68	Er	OIII	ABS	421.71836735	BB	0.029					
72	Hf	OIII	ABS	405.18039216	BB	0.031					
9	F	LI	ABS	399.95225806	BB	0.031					
11	Na	LII	ABS	398.66623794	BB	0.031					
11	Na	LIII	ABS	398.66623794	BB	0.031					
51	Sb	NIV	ABS	394.85732484	BB	0.031					
84	Po	OIV	ABS	394.85732484	BB	0.031					

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ	E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
84	Po	OV	ABS	394.85732484	BB	0.031						
21	Sc	MII	ABS	383.85510836	BB	0.032						
21	Sc	MIII	ABS	383.85510836	BB	0.032						
69	Tm	OIII	ABS	383.85510836	BB	0.032						
92	U	PIII	ABS	383.85510836	BB	0.032						
74	W	NVII	ABS	369.00357143	BB	0.034						
19	K	MI	ABS	365.73805310	BB	0.034						
41	Nb	NII	ABS	365.73805310	BB	0.034						
41	Nb	NIII	ABS	365.73805310	BB	0.034						
22	Ti	MII	ABS	358.33872832	BB	0.035						
22	Ti	MIII	ABS	358.33872832	BB	0.035						
75	Re	OIII	ABS	358.33872832	BB	0.035						
42	Mo	NII	ABS	356.27931034	BB	0.035						
42	Mo	NIII	ABS	356.27931034	BB	0.035						
74	W	OIII	ABS	348.27303371	BB	0.036						
73	Ta	OIII	ABS	340.61868132	BB	0.036						
74	W	NVI	ABS	339.68547945	BB	0.036						
38	Sr	NI	ABS	328.87320955	BB	0.038						
23	V	MII	ABS	328.00317460	BB	0.038						
23	V	MIII	ABS	328.00317460	BB	0.038						
72	Hf	OII	ABS	325.42047244	BB	0.038						
43	Tc	NII	ABS	318.72802057	BB	0.039						
43	Tc	NIII	ABS	318.72802057	BB	0.039						
65	Tb	OI	ABS	317.91076923	BB	0.039						
52	Te	NIV	ABS	311.52060302	BB	0.040						
75	Re	NVI	ABS	305.38226601	BB	0.041						
75	Re	NVII	ABS	305.38226601	BB	0.041						
33	As	MIV	ABS	300.93495146	BB	0.041						
33	As	MV	ABS	300.93495146	BB	0.041						
92	U	PII	ABS	293.10921986	BB	0.042						
24	Cr	MII	ABS	291.72988235	BB	0.042						
24	Cr	MIII	ABS	291.72988235	BB	0.042						
90	Th	PIII	ABS	288.33767442	BB	0.043						
44	Ru	NII	ABS	287.66867749	BB	0.043						
44	Ru	NIII	ABS	287.66867749	BB	0.043						
88	Ra	PI	ABS	285.02344828	BB	0.043						
20	Ca	MI	ABS	283.71899314	BB	0.044						
73	Ta	OII	ABS	276.13630290	BB	0.045						
10	Ne	LI	ABS	275.52266667	BB	0.045						
76	Os	OIII	ABS	273.09515419	BB	0.045						

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
39	Y	NI	ABS	272.49494505	BB	0.045					
75	Re	OII	ABS	271.89736842	BB	0.046					
76	Os	NVI	ABS	267.78660907	BB	0.046					
76	Os	NVII	ABS	267.78660907	BB	0.046					
74	W	OII	ABS	264.92564103	BB	0.047					
45	Rh	NII	ABS	258.84175365	BB	0.048					
45	Rh	NIII	ABS	258.84175365	BB	0.048					
25	Mn	MII	ABS	255.11358025	BB	0.049					
25	Mn	MIII	ABS	255.11358025	BB	0.049					
90	Th	PII	ABS	253.03102041	BB	0.049					
53	I	NIV	ABS	249.97016129	BB	0.050					
77	Ir	OIII	ABS	245.51524752	BB	0.050					
46	Pd	NII	ABS	242.63248532	BB	0.051					
46	Pd	NIII	ABS	242.63248532	BB	0.051					
67	Ho	OI	ABS	242.15859375	BB	0.051					
40	Zr	NI	ABS	241.68654971	BB	0.051					
12	Mg	LII	ABS	241.21634241	BB	0.051					
12	Mg	LIII	ABS	241.21634241	BB	0.051					
78	Pt	OIII	ABS	239.81663443	BB	0.052					
69	Tm	OI	ABS	233.05488722	BB	0.053					
79	Au	OIII	ABS	230.88491620	BB	0.054					
21	Sc	MI	ABS	230.45576208	BB	0.054					
26	Fe	MII	ABS	229.60222222	BB	0.054					
26	Fe	MIII	ABS	229.60222222	BB	0.054					
70	Yb	OI	ABS	229.17781885	BB	0.054					
3	Li	K	ABS	226.45698630	BB	0.055					
47	Ag	NIII	ABS	221.79821109	BB	0.056					
34	Se	MIV	ABS	218.66878307	BB	0.057					
34	Se	MV	ABS	218.66878307	BB	0.057					
71	Lu	OI	ABS	218.28380282	BB	0.057					
80	Hg	OIII	ABS	215.25208333	BB	0.058					
76	Os	OII	ABS	213.76758621	BB	0.058					
41	Nb	NI	ABS	213.39965577	BB	0.058					
27	Co	MII	ABS	208.37848739	BB	0.059					
27	Co	MIII	ABS	208.37848739	BB	0.059					
90	Th	PI	ABS	208.37848739	BB	0.059					
68	Er	OI	ABS	207.33311037	BB	0.060					
22	Ti	MI	ABS	205.61393035	BB	0.060					
77	Ir	NVII	ABS	204.93421488	BB	0.060					
42	Mo	NI	ABS	200.62330097	BB	0.062					

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ	E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
47	Ag	NII	ABS	198.05942492	BB	0.063						
66	Dy	OI	ABS	197.11478537	BB	0.063						
77	Ir	OII	ABS	196.80190476	BB	0.063						
11	Na	LI	ABS	195.86919431	BB	0.063						
77	Ir	NVI	ABS	195.56025237	BB	0.063						
72	Hf	OI	ABS	191.04036980	BB	0.065						
78	Pt	OII	ABS	189.87013783	BB	0.065						
23	V	MI	ABS	186.44390977	BB	0.066						
48	Cd	NII	ABS	185.32914798	BB	0.067						
48	Cd	NIII	ABS	185.32914798	BB	0.067						
88	Ra	OIV	ABS	184.50178571	BB	0.067						
88	Ra	OV	ABS	184.50178571	BB	0.067						
28	Ni	MII	ABS	182.06343612	BB	0.068						
28	Ni	MIII	ABS	182.06343612	BB	0.068						
35	Br	MV	ABS	179.68869565	BB	0.069						
35	Br	MIV	ABS	176.86904422	BB	0.070						
92	U	PI	ABS	175.36803395	BB	0.071						
73	Ta	OI	ABS	174.38143460	BB	0.071						
78	Pt	NVII	ABS	174.38143460	BB	0.071						
79	Au	OII	ABS	172.92217573	BB	0.072						
13	Al	LII	ABS	169.61039672	BB	0.073						
13	Al	LIII	ABS	169.61039672	BB	0.073						
29	Cu	MII	ABS	168.45815217	BB	0.074						
29	Cu	MIII	ABS	168.45815217	BB	0.074						
24	Cr	MI	ABS	167.32145749	BB	0.074						
78	Pt	NVI	ABS	166.87106326	BB	0.074						
44	Ru	NI	ABS	165.53431242	BB	0.075						
81	Tl	OIII	ABS	164.43660477	BB	0.075						
74	W	OI	ABS	160.81089494	BB	0.077						
49	In	NII	ABS	160.18759690	BB	0.077						
49	In	NIII	ABS	160.18759690	BB	0.077						
55	Cs	NIV	ABS	157.34162437	BB	0.079						
80	Hg	OII	ABS	154.01888199	BB	0.080						
45	Rh	NI	ABS	153.06814815	BB	0.081						
75	Re	OI	ABS	149.74057971	BB	0.083						
79	Au	NVII	ABS	149.74057971	BB	0.083						
76	Os	OI	ABS	148.13046595	BB	0.084						
25	Mn	MI	ABS	147.77735399	BB	0.084						
82	Pb	OIII	ABS	144.16883721	BB	0.086						
46	Pd	NI	ABS	143.50138889	BB	0.086						

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79	Au	NVI	ABS	143.50138889	BB	0.086					
30	Zn	MII	ABS	143.16997691	BB	0.087					
30	Zn	MIII	ABS	143.16997691	BB	0.087					
90	Th	OV	ABS	141.05255973	BB	0.088					
50	Sn	NII	ABS	139.93814898	BB	0.089					
50	Sn	NIII	ABS	139.93814898	BB	0.089					
36	Kr	MIV	ABS	139.46591676	BB	0.089					
36	Kr	MV	ABS	139.46591676	BB	0.089					
12	Mg	LI	ABS	138.68590604	BB	0.089					
56	Ba	NIV	ABS	134.03805405	BB	0.092					
83	Bi	OIII	ABS	133.60474138	BB	0.093					
26	Fe	MI	ABS	133.46092573	BB	0.093					
91	Pa	OIV	ABS	131.75897981	BB	0.094	257.9896				
91	Pa	OV	ABS	131.75897981	BB	0.094	257.9896				
90	Th	OIV	ABS	131.47953340	BB	0.094	257.4424				
47	Ag	NI	ABS	130.23655462	BB	0.095	255.0086				
77	Ir	OI	ABS	130.23655462	BB	0.095	255.0086				
92	U	OV	ABS	128.74890966	BB	0.096	252.0958				
51	Sb	NII	ABS	126.00121951	BB	0.098	246.7157				
51	Sb	NIII	ABS	126.00121951	BB	0.098	246.7157				
80	Hg	NVII	ABS	125.87329949	BB	0.098	246.4652				
57	La	NIV	ABS	125.36420627	BB	0.099	245.4684				
57	La	NV	ABS	125.36420627	BB	0.099	245.4684				
14	Si	LII	ABS	124.98508065	BB	0.099	244.7260				
14	Si	LIII	ABS	124.98508065	BB	0.099	244.7260				
81	Tl	OII	ABS	124.48313253	BB	0.100	243.7432				
27	Co	MI	ABS	123.12333664	BB	0.101	241.0807				
93	Np	OV	ABS	122.39407700	BB	0.101	239.6527				
78	Pt	OI	ABS	121.91268437	BB	0.102	238.7102				
80	Hg	NVI	ABS	121.31624266	BB	0.102	237.5423				
31	Ga	MIII	ABS	120.49096210	BB	0.103	235.9264				
95	Am	OV	ABS	120.02439497	BB	0.103	235.0128				
82	Pb	OII	ABS	118.30648855	BB	0.105	231.6491				
92	U	OIV	ABS	118.08114286	BB	0.105	231.2078				
94	Pu	OV	ABS	117.63301708	BB	0.105	230.3304				
31	Ga	MII	ABS	116.09101124	BB	0.107	227.3111				
48	Cd	NI	ABS	115.22788104	BB	0.108	225.6210				
79	Au	OI	ABS	115.01410019	BB	0.108	225.2024				
93	Np	OIV	ABS	113.43568161	BB	0.109	222.1118				
58	Ce	NIV	ABS	112.71381818	BB	0.110	220.6984				

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58	Ce	NV	ABS		112.71381818	BB	0.110	220.6984			
52	Te	NII	ABS		112.50925590	BB	0.110	220.2978			
52	Te	NIII	ABS		112.50925590	BB	0.110	220.2978			
37	Rb	MV	ABS		112.40725295	BB	0.110	220.0981			
4	Be	K	ABS		111.69837838	BB	0.111	218.7101			
28	Ni	MI	ABS		110.89910555	BB	0.112	217.1451			
37	Rb	MIV	ABS		110.89910555	BB	0.112	217.1451			
59	Pr	NIV	ABS		109.52756184	BB	0.113	214.4596			
59	Pr	NV	ABS		109.52756184	BB	0.113	214.4596			
95	Am	OIV	ABS		107.06839378	BB	0.116	209.6444			
94	Pu	OIV	ABS		106.88379310	BB	0.116	209.2830			
83	Bi	OII	ABS		106.15171233	BB	0.117	207.8495			
60	Nd	NIV	ABS		105.51931915	BB	0.117	206.6113			
60	Nd	NV	ABS		105.51931915	BB	0.117	206.6113			
13	Al	LI	ABS		105.34001699	BB	0.118	206.2602			
81	Tl	NVII	ABS		104.62886076	BB	0.118	204.8677			
29	Cu	MI	ABS		103.49348915	BB	0.120	202.6446			
80	Hg	OI	ABS		103.06334165	BB	0.120	201.8023			
61	Pm	NIV	ABS		102.97774086	BB	0.120	201.6347			
61	Pm	NV	ABS		102.97774086	BB	0.120	201.6347			
32	Ge	MIII	ABS		102.63675497	BB	0.121	200.9671			
49	In	NI	ABS		101.71058244	BB	0.122	199.1536			
53	I	NII	ABS		101.04743276	BB	0.123	197.8551			
53	I	NIII	ABS		101.04743276	BB	0.123	197.8551			
81	Tl	NVI	ABS		100.96514658	BB	0.123	197.6940			
32	Ge	MII	ABS		96.93917123	BB	0.128	189.8110			
37	Rb	M3-M4			96.71000000	1	0.128	189.3622			
62	Sm	NIV	ABS		96.11255814	BB	0.129	188.1924			
62	Sm	NV	ABS		96.11255814	BB	0.129	188.1924			
15	P	LII	ABS		93.78608169	BB	0.132	183.6371			
15	P	LIII	ABS		93.78608169	BB	0.132	183.6371			
39	Y	MZ1			93.60000000	1	0.132	183.2727			
39	Y	MZ2			93.60000000	1	0.132	183.2727			
39	Y	MZ1,2			93.40000153	0.01 C	0.133	182.8811			
83	Bi	N7-O5			93.16000000	1	0.133	182.4112			
38	Sr	MV	ABS		93.15191585	BB	0.133	182.3954			
63	Eu	NIV	ABS		93.08198198	BB	0.133	182.2584			
63	Eu	NV	ABS		93.08198198	BB	0.133	182.2584			
38	Sr	MIV	ABS		91.84088889	BB	0.135	179.8283			
83	Bi	N6-O4			91.60000000	1	0.135	179.3566			

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37	Rb	M2-M4	91.50000000	0.01 C	0.135	179.1608					
38	Sr	M3-M4	91.40000153	0.01 C	0.136	178.9650					
30	Zn	MI	91.23267108	BB	0.136	178.6374					
81	Tl	OI	90.96493030	BB	0.136	178.1132	259.8998				
50	Sn	NI	90.83164835	BB	0.136	177.8522	259.5190				
82	Pb	NVII	89.77929037	BB	0.138	175.7916	256.5123				
33	As	MIII	88.24569395	BB	0.140	172.7888	252.1306				
64	Gd	NIV	88.24569395	BB	0.140	172.7888	252.1306				
64	Gd	NV	88.24569395	BB	0.140	172.7888	252.1306				
82	Pb	NVI	86.76361092	BB	0.143	169.8868	247.8960				
39	Y	M3-M4	86.50000000	0.01 C	0.143	169.3706	247.1429				
38	Sr	M2-M4	85.69999695	0.01 C	0.145	167.8042	244.8571				
33	As	MII	84.68934426	BB	0.146	165.8253	241.9696				
54	Xe	NII	84.51615542	BB	0.147	165.4862	241.4747				
54	Xe	NIII	84.51615542	BB	0.147	165.4862	241.4747				
65	Tb	NIV	84.34367347	BB	0.147	165.1485	240.9819				
65	Tb	NV	84.34367347	BB	0.147	165.1485	240.9819				
82	Pb	OI	84.17189409	BB	0.147	164.8121	240.4911				
16	S	LI	83.40000000	95 W,F	0.149	163.3007	238.2857				
16	S	Ln	83.40000000	50	0.149	163.3007	238.2857				
14	Si	LI	83.37942165	BB	0.149	163.2604	238.2269				
40	Zr	MZ1,2	82.09999847	0.01 C	0.151	160.7552	234.5714				
40	Zr	MZ1	81.71000000	1	0.152	159.9916	233.4571				
40	Zr	MZ2	81.71000000	1	0.152	159.9916	233.4571				
51	Sb	NI	81.56921053	BB	0.152	159.7159	233.0549				
39	Y	M2-M4	81.50000000	0.01 C	0.152	159.5804	232.8571				
88	Ra	OIII	81.14214660	BB	0.153	158.8797	231.8347				
40	Zr	M3-M5	80.90000153	0.01 C	0.153	158.4056	231.1429				
66	Dy	NIV	80.40544747	BB	0.154	157.4372	229.7298				
66	Dy	NV	80.40544747	BB	0.154	157.4372	229.7298				
35	Br	M3-N1	79.80000305	0.01 C	0.155	156.2518	228.0000				
39	Y	MV	78.77077510	BB	0.157	154.2365	225.0594				
83	Bi	NVII	78.77077510	BB	0.157	154.2365	225.0594				
31	Ga	MI	78.42201139	BB	0.158	153.5536	224.0629				
41	Nb	M3-M5	78.40000153	0.01 C	0.158	153.5105	224.0000				
41	Nb	M3-M4	78.21000000	1	0.158	153.1385	223.4571				
83	Bi	OI	77.83126177	BB	0.159	152.3969	222.3750				
39	Y	MIV	77.68496241	BB	0.160	152.1104	221.9570				
67	Ho	NIV	77.00944099	BB	0.161	150.7877	220.0270				
67	Ho	NV	77.00944099	BB	0.161	150.7877	220.0270				

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35	Br	M2-N1	76.90000153	0.01	C	0.161	150.5734	219.7143			
55	Cs	NIII	76.72351485		ABS	BB	0.162	150.2279	219.2100		
40	Zr	M2-M4	76.69999695	0.01	C	0.162	150.1818	219.1428			
34	Se	MIII	76.58134651		ABS	BB	0.162	149.9495	218.8038		
83	Bi	NVI	76.58134651		ABS	BB	0.162	149.9495	218.8038		
68	Er	N5-N6	76.30000000	1		0.162	149.3986	218.0000			
16	S	LII	75.23373786		ABS	BB	0.165	147.3108	214.9535		
42	Mo	M3-M5	74.90000153	0.1	C	0.166	146.6573	214.0000			
42	Mo	M3-M4	74.70000000	1		0.166	146.2657	213.4286			
68	Er	NV	73.97684964		ABS	BB	0.168	144.8498	211.3624		
34	Se	MII	73.71296076		ABS	BB	0.168	144.3331	210.6085		
52	Te	NI	73.66916221		ABS	BB	0.168	144.2473	210.4833		
68	Er	N4-N6	72.70000000	1		0.171	142.3497	207.7143			
41	Nb	MZ1,2	72.19000244	0.01	C	0.172	141.3511	206.2571			
41	Nb	MZ1	72.13000000	1		0.172	141.2336	206.0857			
41	Nb	MZ2	72.13000000	1		0.172	141.2336	206.0857			
41	Nb	M2-M4	72.09999847	0.01	C	0.172	141.1748	206.0000			
55	Cs	NII	71.95890888		ABS	BB	0.172	140.8986	205.5969		
68	Er	NIV	70.16706282		ABS	BB	0.177	137.3901	200.4773		
40	Zr	M4-O2	70.00000000	0.01	C	0.177	137.0629	200.0000			
70	Yb	N5-N6	69.30000000	1		0.179	135.6923	198.0000			
69	Tm	NIV	69.03407572		ABS	BB	0.180	135.1716	197.2402		
69	Tm	NV	69.03407572		ABS	BB	0.180	135.1716	197.2402		
56	Ba	NIII	68.99565943		ABS	BB	0.180	135.0964	197.1305		
42	Mo	M2-M4	68.90000153	0.01	C	0.180	134.9091	196.8571			
32	Ge	MI	68.88066667		ABS	BB	0.180	134.8712	196.8019		
40	Zr	MV	68.88066667		ABS	BB	0.180	134.8712	196.8019		
44	Ru	M3-M4	68.34000000	1		0.181	133.8126	195.2571			
35	Br	MIII	68.31140496		ABS	BB	0.181	133.7566	195.1754		
44	Ru	M3-M5	68.30000305	0.01	C	0.181	133.7343	195.1429			
90	Th	O3-P1	68.30000000	1		0.181	133.7343	195.1429			
90	Th	O3-P4	68.20000000	1		0.182	133.5385	194.8571			
90	Th	OIII	68.19867987		ABS	BB	0.182	133.5359	194.8534		
40	Zr	MIV	67.97434211		ABS	BB	0.182	133.0966	194.2124		
17	Cl	LI	67.84000000	95	W,F	0.183	132.8336	193.8286			
5	B	KA1,2	67.74919891	150	C	0.183	132.6558	193.5691			
17	Cl	Ln	67.25000000	50		0.184	131.6783	192.1429			
70	Yb	NV	67.05527312		ABS	BB	0.185	131.2970	191.5865		
5	B	KA1	67.00000000	100		0.185	131.1888	191.4286			
5	B	KA2	67.00000000	50		0.185	131.1888	191.4286			

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
53	I	NI	ABS	66.51566524	BB	0.186	130.2405	190.0448			
5	B	K	ABS	65.94957447	BB	0.188	129.1320	188.4274			
71	Lu	N5-N6		65.70000000	1	0.189	128.6434	187.7143			
45	Rh	M3-M5		65.50000000	0.01 C	0.189	128.2517	187.1429			
15	P	LI	ABS	65.49667195	BB	0.189	128.2452	187.1333			
35	Br	MII	ABS	65.49667195	BB	0.189	128.2452	187.1333			
70	Yb	N4-N6		65.10000000	1	0.190	127.4685	186.0000			
57	La	NIII	ABS	64.77805643	BB	0.191	126.8382	185.0802			
56	Ba	NII	ABS	64.64296142	BB	0.192	126.5736	184.6942			
90	Th	O2-P1		64.50000000	1	0.192	126.2937	184.2857			
42	Mo	MZ1,2		64.37999725	0.01 C	0.193	126.0587	183.9428			
42	Mo	MZ1		64.35000000	1	0.193	126.0000	183.8571			
42	Mo	MZ2		64.35000000	1	0.193	126.0000	183.8571			
71	Lu	NV	ABS	63.58215385	BB	0.195	124.4965	181.6633			
92	U	OIII	ABS	63.54956433	BB	0.195	124.4327	181.5702			
71	Lu	N4-N6		63.00000000	1	0.197	123.3566	180.0000			
46	Pd	M3-M5		62.90000153	0.01 C	0.197	123.1608	179.7143			
70	Yb	NIV	ABS	62.58717819	BB	0.198	122.5483	178.8205			
44	Ru	M2-M4		62.20000076	0.01 C	0.199	121.7902	177.7143			
17	Cl	LIII	ABS	61.99260000	BB	0.200	121.3841	177.1217			
41	Nb	M4-O2		61.90000153	0.1 C	0.200	121.2028	176.8571			
88	Ra	OII	ABS	61.86886228	BB	0.200	121.1418	176.7682			
17	Cl	LII	ABS	61.50059524	BB	0.202	120.4207	175.7160			
73	Ta	N5-N6		61.10000000	1	0.203	119.6364	174.5714			
33	As	MI	ABS	60.92638821	BB	0.203	119.2964	174.0754			
41	Nb	MV	ABS	60.59882698	BB	0.205	118.6550	173.1395			
71	Lu	NIV	ABS	60.53964844	BB	0.205	118.5392	172.9704			
47	Ag	M3-M5		60.50000000	0.01 C	0.205	118.4615	172.8571			
57	La	NII	ABS	60.24548105	BB	0.206	117.9632	172.1299			
93	Np	OIII	ABS	60.15778748	BB	0.206	117.7915	171.8794			
94	Pu	OIII	ABS	60.04125908	BB	0.206	117.5633	171.5465			
58	Ce	NIII	ABS	59.83841699	BB	0.207	117.1661	170.9669			
41	Nb	MIV	ABS	59.78071360	BB	0.207	117.0531	170.8020			
37	Rb	M3-N1		59.50000000	0.01 C	0.208	116.5035	170.0000			
74	W	N5-N6		59.50000000	1	0.208	116.5035	170.0000			
45	Rh	M2-M4		59.29999924	0.01 C	0.209	116.1119	169.4286			
48	Cd	M3-M5		58.70000076	0.01 C	0.211	114.9371	167.7143			
74	W	N5-N7		58.40000000	1	0.212	114.3497	166.8571			
73	Ta	N4-N6		58.20000000	1	0.213	113.9580	166.2857			
72	Hf	NV	ABS	58.01834347	BB	0.214	113.6024	165.7667			

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
36	Kr	MIII	ABS	57.99120674	BB	0.214	113.5492	165.6892			
37	Rb	M2-N1		57.00000000	0.01 C	0.217	111.6084	162.8571	258.2942		
59	Pr	NIII	ABS	56.97849265	BB	0.218	111.5663	162.7957	258.1968		
18	Ar	Ln		56.81453400	50	0.218	111.2452	162.3272	257.4538		
46	Pd	M2-M4		56.50000000	0.01 C	0.219	110.6294	161.4286	256.0285		
18	Ar	LI		56.21332200	95 W,F	0.221	110.0680	160.6095	254.7294		
74	W	N4-N6		55.80000000	1	0.222	109.2587	159.4286	252.8564		
36	Kr	MII	ABS	55.67364167	BB	0.223	109.0113	159.0675	252.2839		
91	Pa	OII	ABS	55.62368775	BB	0.223	108.9135	158.9248	252.0575		
91	Pa	OIII	ABS	55.62368775	BB	0.223	108.9135	158.9248	252.0575		
58	Ce	NII	ABS	55.52404837	BB	0.223	108.7184	158.6401	251.6060		
72	Hf	NIV	ABS	55.40000000	BB	0.224	108.4755	158.2857	251.0439		
60	Nd	NIII	ABS	55.20267142	BB	0.225	108.0891	157.7219	250.1497		
42	Mo	M4-O2		54.79999924	0.5 C	0.226	107.3007	156.5714	248.3250		
76	Os	N5-N6		54.70000000	1	0.227	107.1049	156.2857	247.8718		
42	Mo	MV	ABS	54.61903084	BB	0.227	106.9464	156.0544	247.5049		
50	Sn	M3-M5		54.20000076	0.01 C	0.229	106.1259	154.8571	245.6061		
16	S	LI	ABS	54.09476440	BB	0.229	105.9198	154.5565	245.1292		
73	Ta	NV	ABS	54.07117314	BB	0.229	105.8736	154.4891	245.0223		
90	Th	OII	ABS	54.04760244	BB	0.229	105.8275	154.4217	244.9155		
47	Ag	M2-M4		54.00000000	0.01 C	0.230	105.7343	154.2857	244.6998		
74	W	N2-N4		54.00000000	1	0.230	105.7343	154.2857	244.6998		
42	Mo	MIV	ABS	53.83638732	BB	0.230	105.4139	153.8182	243.9584		
55	Cs	NI	ABS	53.71975737	BB	0.231	105.1855	153.4850	243.4299		
38	Sr	M3-N1		53.59999847	0.01 C	0.231	104.9510	153.1429	242.8872		
34	Se	MI	ABS	53.55732181	BB	0.231	104.8675	153.0209	242.6938		
77	Ir	N5-N6		52.80000000	1	0.235	103.3846	150.8571	239.2620		
44	Ru	MZ1,2		52.34000015	0.01 C	0.237	102.4839	149.5429	237.1775		
44	Ru	MZ1		52.32000000	1	0.237	102.4448	149.4857	237.0869		
44	Ru	MZ2		52.32000000	1	0.237	102.4448	149.4857	237.0869		
51	Sb	M3-M5		52.20000076	0.01 C	0.237	102.2098	149.1429	236.5431		
48	Cd	M2-M4		52.00000000	0.01 C	0.238	101.8182	148.5714	235.6368		
37	Rb	MIII	ABS	51.98540881	BB	0.238	101.7896	148.5297	235.5707		
76	Os	N4-N6		51.90000000	1	0.239	101.6224	148.2857	235.1837		
73	Ta	NIV	ABS	51.38217986	BB	0.241	100.6085	146.8062	232.8372		
38	Sr	M2-N1		51.29999924	0.01 C	0.242	100.4476	146.5714	232.4648		
61	Pm	NII	ABS	51.23355372	BB	0.242	100.3174	146.3816	232.1637		
61	Pm	NIII	ABS	51.23355372	BB	0.242	100.3174	146.3816	232.1637		
59	Pr	NII	ABS	50.95980271	BB	0.243	99.7814	145.5994	230.9232		
78	Pt	N5-N6		50.90000000	1	0.244	99.6643	145.4286	230.6522		

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
18	Ar	LIII	ABS	50.56492659	BB	0.245	99.0082	144.4712	229.1338		
74	W	NV	ABS	50.52371638	BB	0.245	98.9276	144.3535	228.9471		
52	Te	M3-M5		50.29999924	0.01 C	0.246	98.4895	143.7143	227.9333		
77	Ir	N4-N6		50.20000000	1	0.247	98.2937	143.4286	227.4802		
18	Ar	LII	ABS	50.13554387	BB	0.247	98.1675	143.2444	227.1881		
37	Rb	MII	ABS	50.11527890	BB	0.247	98.1278	143.1865	227.0963		
62	Sm	NIII	ABS	50.11527890	BB	0.247	98.1278	143.1865	227.0963		
90	Th	N6-O4		50.00000000	0.01 C	0.248	97.9021	142.8571	226.5739		
90	Th	N7-O5		50.00000000	1	0.248	97.9021	142.8571	226.5739		
79	Au	N5-N6		49.40000000	1	0.251	96.7273	141.1429	223.8550		
43	Tc	MV	ABS	49.02538553	BB	0.253	95.9938	140.0725	222.1574		
56	Ba	NI	ABS	49.00600791	BB	0.253	95.9558	140.0172	222.0696		
88	Ra	OI	ABS	48.73632075	BB	0.254	95.4278	139.2466	220.8475		
39	Y	M3-N1		48.50000000	0.01 C	0.256	94.9650	138.5714	219.7767		
43	Tc	MIV	ABS	48.35616225	BB	0.256	94.6834	138.1605	219.1249		
35	Br	MI	ABS	48.33730994	BB	0.256	94.6465	138.1066	219.0394		
63	Eu	NIII	ABS	48.31847233	BB	0.257	94.6096	138.0528	218.9541		
90	Th	N6-O5		48.20000000	1	0.257	94.3776	137.7143	218.4172		
78	Pt	N4-N6		48.10000000	1	0.258	94.1818	137.4286	217.9641		
74	W	NIV	ABS	47.90772798	BB	0.259	93.8053	136.8792	217.0928		
80	Hg	N5-N6		47.90000000	1	0.259	93.7902	136.8571	217.0578		
19	K	LI		47.83643500	95 W,F	0.259	93.6657	136.6755	216.7697		
92	U	OII	ABS	47.81534902	BB	0.259	93.6245	136.6153	216.6742		
45	Rh	MZ1,2		47.66999817	0.01 C	0.260	93.3399	136.2000	216.0155		
75	Re	NV	ABS	47.64996157	BB	0.260	93.3006	136.1427	215.9247		
45	Rh	MZ1		47.59000000	1	0.260	93.1832	135.9714	215.6530		
45	Rh	MZ2		47.59000000	1	0.260	93.1832	135.9714	215.6530		
19	K	Ln		47.32540500	50	0.262	92.6651	135.2154	214.4540		
50	Sn	M2-M4		47.29999924	0.01 C	0.262	92.6154	135.1429	214.3389		
79	Au	N4-N6		46.80000000	1	0.265	91.6364	133.7143	212.0732		
62	Sm	NII	ABS	46.68117470	BB	0.266	91.4037	133.3748	211.5347		
81	Tl	N5-N6		46.50000000	1	0.267	91.0490	132.8571	210.7137		
39	Y	M2-N1		46.47999954	0.01 C	0.267	91.0098	132.8000	210.6231		
38	Sr	MIII	ABS	46.07402453	BB	0.269	90.2149	131.6401	208.7834		
17	Cl	LI	ABS	45.88645448	BB	0.270	89.8476	131.1042	207.9334		
57	La	NI	ABS	45.85251479	BB	0.270	89.7811	131.0072	207.7796		
64	Gd	NIII	ABS	45.76788483	BB	0.271	89.6154	130.7654	207.3961		
76	Os	NV	ABS	45.44912023	BB	0.273	88.9913	129.8546	205.9517		
75	Re	NIV	ABS	45.29967117	BB	0.274	88.6987	129.4276	205.2744		
94	Pu	OII	ABS	45.23356439	BB	0.274	88.5692	129.2388	204.9749		

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
51	Sb	M2-M4	45.20000076	0.01 C	0.274	88.5035	129.1429	204.8228			
80	Hg	N4-N6	45.20000000	1	0.274	88.5035	129.1429	204.8228			
82	Pb	N5-N6	45.00000000	1	0.275	88.1119	128.5714	203.9165			
44	Ru	M4-O2	44.79999924	0.01 C	0.277	87.7203	128.0000	203.0102			
6	C	KA1,2	44.75849915	150 C	0.277	87.6390	127.8814	202.8221			
44	Ru	MV	44.37551897	ABS	0.279	86.8891	126.7872	201.0867			
38	Sr	MII	44.31208006	ABS	0.280	86.7649	126.6059	200.7992			
6	C	KA1	44.00000000	100	0.282	86.1538	125.7143	199.3850			
6	C	KA2	44.00000000	50	0.282	86.1538	125.7143	199.3850			
93	Np	OII	43.74918843	ABS	0.283	85.6627	124.9977	198.2485			
44	Ru	MIV	43.71833568	ABS	0.284	85.6023	124.9095	198.1087			
6	C	K	43.68752643	ABS	0.284	85.5420	124.8215	197.9690			
63	Eu	NII	43.67213808	ABS	0.284	85.5119	124.7775	197.8993			
46	Pd	MZ1,2	43.59999847	0.01 C	0.284	85.3706	124.5714	197.5724			
65	Tb	NIII	43.50357895	ABS	0.285	85.1818	124.2959	197.1355			
92	U	N6-O4	43.40000153	0.01 C	0.286	84.9790	124.0000	196.6661			
46	Pd	MZ1	43.36000000	1	0.286	84.9007	123.8857	196.4849			
46	Pd	MZ2	43.36000000	1	0.286	84.9007	123.8857	196.4849			
64	Gd	NII	42.97580589	ABS	0.288	84.1484	122.7880	194.7439			
76	Os	NIV	42.84215619	ABS	0.289	83.8867	122.4062	194.1383			
58	Ce	NI	42.81256906	ABS	0.290	83.8288	122.3216	194.0042			
90	Th	OI	42.72405238	ABS	0.290	83.6555	122.0687	193.6031			
66	Dy	NIII	42.33021509	ABS	0.293	82.8843	120.9435	191.8184			
82	Pb	N4-N6	42.30000000	1	0.293	82.8252	120.8571	191.6815			
19	K	LIII	42.22929155	ABS	0.294	82.6867	120.6551	191.3611			
92	U	N6-O5	42.10000000	1	0.294	82.4336	120.2857	190.7752			
77	Ir	NV	42.04313327	ABS	0.295	82.3222	120.1232	190.5175			
19	K	LII	41.84448194	ABS	0.296	81.9333	119.5557	189.6173			
88	Ra	NVI	41.48049515	ABS	0.299	81.2205	118.5157	187.9679			
88	Ra	NVII	41.48049515	ABS	0.299	81.2205	118.5157	187.9679			
39	Y	MIII	41.28711289	ABS	0.300	80.8419	117.9632	187.0916			
20	Ca	LI	41.04273900	95 W,F	0.302	80.3634	117.2650	185.9843			
45	Rh	M4-O2	40.90000153	0.1 C	0.303	80.0839	116.8571	185.3374			
59	Pr	NI	40.71763547	ABS	0.304	79.7268	116.3361	184.5111			
41	Nb	M3-N1	40.70000076	0.1 C	0.305	79.6923	116.2857	184.4311			
20	Ca	Ln	40.54172900	50	0.306	79.3824	115.8335	183.7139			
67	Ho	NIII	40.43874755	ABS	0.307	79.1808	115.5393	183.2473			
45	Rh	MV	40.38605863	ABS	0.307	79.0776	115.3887	183.0085			
91	Pa	OI	40.04689922	ABS	0.310	78.4135	114.4197	181.4716			
65	Tb	NII	39.96943907	ABS	0.310	78.2618	114.1984	181.1206			

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
77	Ir	NIV	ABS	39.81541426	BB	0.311	77.9603	113.7583	180.4227		
47	Ag	MZ1		39.79000000	1	0.312	77.9105	113.6857	180.3075		
47	Ag	MZ2		39.79000000	1	0.312	77.9105	113.6857	180.3075		
45	Rh	MIV	ABS	39.77709336	BB	0.312	77.8852	113.6488	180.2490		
47	Ag	MZ1,2		39.77000046	0.01 C	0.312	77.8713	113.6286	180.2169		
39	Y	MII	ABS	39.68796415	BB	0.312	77.7107	113.3942	179.8451		
78	Pt	NV	ABS	39.57395468	BB	0.313	77.4875	113.0684	179.3285		
60	Nd	NI	ABS	39.33540609	BB	0.315	77.0204	112.3869	178.2475		
18	Ar	LI	ABS	38.74537500	BB	0.320	75.8651	110.7011	175.5738		
68	Er	NIII	ABS	38.74537500	BB	0.320	75.8651	110.7011	175.5738		
94	Pu	N6-O4		38.50000000	0.01 C	0.322	75.3846	110.0000	174.4619		
37	Rb	MI	ABS	38.49276622	BB	0.322	75.3705	109.9793	174.4291		
41	Nb	M2-N1		38.40000153	0.01 C	0.323	75.1888	109.7143	174.0087		
92	U	OI	ABS	38.30250232	BB	0.324	74.9979	109.4357	173.5669		
40	Zr	MIII	ABS	37.51443268	BB	0.330	73.4548	107.1841	169.9958		
42	Mo	M3-N1		37.50000000	1 C	0.331	73.4266	107.1429	169.9304		
78	Pt	NIV	ABS	37.48041112	BB	0.331	73.3882	107.0869	169.8416		
46	Pd	M4-O2		37.40000153	0.1 C	0.331	73.2308	106.8571	169.4773		
66	Dy	NII	ABS	37.36745027	BB	0.332	73.1670	106.7641	169.3298		
79	Au	NV	ABS	37.13243486	BB	0.334	72.7069	106.0927	168.2648		
46	Pd	MV	ABS	37.04368091	BB	0.335	72.5331	105.8391	167.8626		
90	Th	NVII	ABS	36.98842482	BB	0.335	72.4249	105.6812	167.6122		
69	Tm	NIII	ABS	36.83458111	BB	0.337	72.1237	105.2417	166.9151		
48	Cd	MZ1,2		36.79999924	0.01 C	0.337	72.0559	105.1429	166.7584		
48	Cd	MZ1		36.66000000	1	0.338	71.7818	104.7429	166.1240		
48	Cd	MZ2		36.66000000	1	0.338	71.7818	104.7429	166.1240		
46	Pd	MIV	ABS	36.46623529	BB	0.340	71.4024	104.1892	165.2459		
20	Ca	LA1		36.39336600	100	0.341	71.2597	103.9810	164.9157		
20	Ca	LA2		36.39336600	10	0.341	71.2597	103.9810	164.9157		
90	Th	N5-N6		36.32000000	1	0.341	71.1161	103.7714	164.5833		
67	Ho	NII	ABS	36.09467249	BB	0.343	70.6749	103.1276	163.5622		
70	Yb	NIII	ABS	36.09467249	BB	0.343	70.6749	103.1276	163.5622		
20	Ca	LB1		36.02261900	50	0.344	70.5338	102.9218	163.2357		
40	Zr	MII	ABS	36.02126671	BB	0.344	70.5312	102.9179	163.2296		
90	Th	NVI	ABS	36.00034843	BB	0.344	70.4902	102.8581	163.1348		
62	Sm	NI	ABS	35.86496963	BB	0.346	70.2251	102.4713	162.5213		
20	Ca	LIII	ABS	35.79249423	BB	0.346	70.0832	102.2643	162.1929		
21	Sc	LI		35.62670135	92.82 C	0.348	69.7586	101.7906	161.4416		
20	Ca	LII	ABS	35.42434286	BB	0.350	69.3623	101.2124	160.5246		
42	Mo	M2-N1		35.29999924	0.01 C	0.351	69.1189	100.8571	159.9612		

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
94	Pu	OI	ABS	35.23307758	BB	0.352	68.9878	100.6659	159.6579		
79	Au	NIV	ABS	35.22306818	BB	0.352	68.9682	100.6373	159.6125		
21	Sc	Ln		35.12210083	45.29 C	0.353	68.7705	100.3489	159.1550		
41	Nb	MG		34.90000153	1 C	0.355	68.3357	99.7143	158.1486		
92	U	N5-N6		34.80000000	1	0.356	68.1399	99.4286	157.6954		
38	Sr	MI	ABS	34.68117483	BB	0.357	67.9072	99.0891	157.1570		
71	Lu	NIII	ABS	34.50743112	BB	0.359	67.5670	98.5927	156.3697		
91	Pa	NVII	ABS	34.48823366	BB	0.359	67.5294	98.5378	156.2827		
80	Hg	NV	ABS	34.45947749	BB	0.360	67.4731	98.4556	156.1523		
63	Eu	NI	ABS	34.42121044	BB	0.360	67.3982	98.3463	155.9789		
41	Nb	MIII	ABS	34.15570248	BB	0.363	66.8783	97.5877	154.7758		
68	Er	NII	ABS	33.85723648	BB	0.366	66.2939	96.7350	153.4233		
47	Ag	MV	ABS	33.81107172	BB	0.367	66.2035	96.6031	153.2141		
90	Th	N4-N6		33.57000000	1	0.369	65.7315	95.9143	152.1217		
47	Ag	M4-O2		33.50000000	0.01 C	0.370	65.5944	95.7143	151.8045		
91	Pa	NVI	ABS	33.40118534	BB	0.371	65.4009	95.4320	151.3567		
47	Ag	MIV	ABS	33.25783262	BB	0.373	65.1202	95.0224	150.7071		
41	Nb	M2-N4		33.09999847	0.5 C	0.375	64.8112	94.5714	149.9919		
64	Gd	NI	ABS	32.99233635	BB	0.376	64.6004	94.2638	149.5040		
19	K	LI	ABS	32.87859984	BB	0.377	64.3777	93.9389	148.9886		
80	Hg	NIV	ABS	32.77430611	BB	0.378	64.1735	93.6409	148.5160		
41	Nb	MII	ABS	32.76564482	BB	0.378	64.1565	93.6161	148.4768		
21	Sc	LB17		32.71269989	0.04 C	0.379	64.0528	93.4649	148.2369		
72	Hf	NIII	ABS	32.59337539	BB	0.380	63.8192	93.1239	147.6962		
92	U	NVII	ABS	32.55059071	BB	0.381	63.7354	93.0017	147.5023		
44	Ru	M2-N1		32.29999924	0.01 C	0.384	63.2448	92.2857	146.3667		
69	Tm	NII	ABS	32.12884167	BB	0.386	62.9096	91.7967	145.5911		
81	Tl	NV	ABS	32.10388400	BB	0.386	62.8608	91.7254	145.4780		
92	U	N4-N6		31.80000000	1	0.390	62.2657	90.8571	144.1010		
92	U	NVI	ABS	31.68545873	BB	0.391	62.0415	90.5299	143.5819		
7	N	KA1,2		31.62779999	150 C	0.392	61.9286	90.3651	143.3207		
42	Mo	MIII	ABS	31.60469029	BB	0.392	61.8833	90.2991	143.2159		
7	N	KA1		31.60371100	100	0.392	61.8814	90.2963	143.2115		
7	N	KA2		31.60371100	50	0.392	61.8814	90.2963	143.2115		
39	Y	MI	ABS	31.50030488	BB	0.394	61.6789	90.0009	142.7429		
21	Sc	LA1		31.38759995	100 C	0.395	61.4582	89.6789	142.2322		
21	Sc	LA2		31.38759995	11.4 C	0.395	61.4582	89.6789	142.2322		
22	Ti	LI		31.38759995	41.18 C	0.395	61.4582	89.6789	142.2322		
70	Yb	NII	ABS	31.25414671	BB	0.397	61.1969	89.2976	141.6275		
50	Sn	MZ1,2		31.23999977	0.01 C	0.397	61.1692	89.2571	141.5634		

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
50	Sn	MZ1	31.17000000	1	0.398	61.0322	89.0571	141.2462			
50	Sn	MZ2	31.17000000	1	0.398	61.0322	89.0571	141.2462			
65	Tb	NI	ABS	31.15988942	BB	0.398	61.0124	89.0283	141.2003		
21	Sc	LB1		30.99530029	56.77 C	0.400	60.6901	88.5580	140.4545		
21	Sc	LB6		30.99530029	0.91 C	0.400	60.6901	88.5580	140.4545		
21	Sc	LG5		30.99530029	4.57 C	0.400	60.6901	88.5580	140.4545		
22	Ti	Ln		30.91799927	20.2 C	0.401	60.5387	88.3371	140.1042		
7	N	K	ABS	30.87280876	BB	0.402	60.4503	88.2080	139.8994		
21	Sc	LIII	ABS	30.82675286	BB	0.402	60.3601	88.0764	139.6907		
48	Cd	M5-O3		30.79999924	0.01 C	0.402	60.3077	88.0000	139.5695		
48	Cd	MV	ABS	30.71221204	BB	0.404	60.1358	87.7492	139.1717		
93	Np	NVII	ABS	30.65905045	BB	0.404	60.0317	87.5973	138.9308		
73	Ta	NIII	ABS	30.65147095	BB	0.404	60.0169	87.5756	138.8965		
81	Tl	NIV	ABS	30.49316281	BB	0.407		87.1233	138.1791		
21	Sc	LII	ABS	30.48566511	BB	0.407		87.1019	138.1451		
48	Cd	M4-O2		30.39999962	0.1 C	0.408		86.8571	137.7569		
42	Mo	MII	ABS	30.26243593	BB	0.410		86.4641	137.1336		
71	Lu	NII	ABS	30.23291880	BB	0.410		86.3798	136.9998		
48	Cd	MIV	ABS	30.20345920	BB	0.410		86.2956	136.8663		
82	Pb	NV	ABS	30.02790022	BB	0.413		85.7940	136.0708		
93	Np	NVI	ABS	29.87595181	BB	0.415		85.3599	135.3822		
45	Rh	M3-N1		29.79999924	0.1 C	0.416		85.1429	135.0380		
66	Dy	NI	ABS	29.78265674	BB	0.416		85.0933	134.9594		
43	Tc	MIII	ABS	29.17298824	BB	0.425		83.3514	132.1967		
74	W	NIII	ABS	29.15241006	BB	0.425		83.2926	132.1035		
51	Sb	MZ1		28.91000000	1	0.429		82.6000	131.0050		
51	Sb	MZ2		28.91000000	1	0.429		82.6000	131.0050		
51	Sb	MZ1,2		28.87999916	0.01 C	0.429		82.5143	130.8691		
40	Zr	MI	ABS	28.81366488	BB	0.430		82.3248	130.5685		
22	Ti	LB17		28.76589966	0.02 C	0.431		82.1883	130.3520		
94	Pu	NVII	ABS	28.67372803	BB	0.432		81.9249	129.9344		
82	Pb	NIV	ABS	28.48924632	BB	0.435		81.3978	129.0984		
67	Ho	NI	ABS	28.45655267	BB	0.436		81.3044	128.9502		
72	Hf	NII	ABS	28.37189931	BB	0.437		81.0626	128.5666		
20	Ca	LI	ABS	28.32005482	BB	0.438		80.9144	128.3317		
45	Rh	M2-N1		28.10000038	0.01 C	0.441		80.2857	127.3345		
49	In	MV	ABS	27.98131347	BB	0.443		79.9466	126.7967		
46	Pd	M3-N1		27.89999962	0.1 C	0.444		79.7143	126.4282		
75	Re	NIII	ABS	27.89945995	BB	0.444		79.7127	126.4258		
43	Tc	MII	ABS	27.86810519	BB	0.445		79.6232	126.2837		

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
94	Pu	NVI	ABS	27.81184388	BB	0.446	79.4624	126.0287			
23	V	LI		27.79840088	25 C	0.446	79.4240	125.9678			
68	Er	NI	ABS	27.60748163	BB	0.449	78.8785	125.1027			
49	In	MIV	ABS	27.50337178	BB	0.451	78.5811	124.6309			
22	Ti	LA1		27.42939949	100 C	0.452	78.3697	124.2957			
22	Ti	LA2		27.42939949	11.37 C	0.452	78.3697	124.2957			
22	Ti	LB6		27.36890030	0.4 C	0.453	78.1969	124.0216			
23	V	Ln		27.36890030	12.37 C	0.453	78.1969	124.0216			
22	Ti	LIII	ABS	27.21958288	BB	0.455	77.7702	123.3449			
21	Sc	LB3		27.07010078	24.12 C	0.458	77.3431	122.6676			
21	Sc	LB4		27.07010078	12.61 C	0.458	77.3431	122.6676			
21	Sc	LB9		27.07010078	0.01 C	0.458	77.3431	122.6676			
22	Ti	LB1		27.07010078	56.7 C	0.458	77.3431	122.6676			
22	Ti	LG5		27.07010078	2 C	0.458	77.3431	122.6676			
44	Ru	MIII	ABS	26.91819366	BB	0.461	76.9091	121.9792			
44	Ru	MG		26.89999962	1 C	0.461	76.8571	121.8967			
22	Ti	LII	ABS	26.86569881	BB	0.461	76.7591	121.7413			
83	Bi	NIV	ABS	26.74400345	BB	0.464	76.4114	121.1899			
52	Te	MZ1,2		26.71999931	0.01 C	0.464	76.3429	121.0811			
52	Te	MZ1		26.70000000	1	0.464	76.2857	120.9905			
52	Te	MZ2		26.70000000	1	0.464	76.2857	120.9905			
73	Ta	NII	ABS	26.67495697	BB	0.465	76.2142	120.8770			
76	Os	NIII	ABS	26.48124733	BB	0.468	75.6607	119.9992			
41	Nb	MI	ABS	26.46994022	BB	0.468	75.6284	119.9479			
69	Tm	NI	ABS	26.28475726	BB	0.472	75.0993	119.1088			
46	Pd	M2-N1		26.20000076	0.01 C	0.473	74.8571	118.7247			
84	Po	NV	ABS	26.19036755	BB	0.473	74.8296	118.6811			
47	Ag	M3-N1		26.00000000	0.1 C	0.477	74.2857	117.8184			
50	Sn	M5-O3		25.70000076	0.01 C	0.482	73.4286	116.4590			
44	Ru	MII	ABS	25.68044739	BB	0.483	73.3727	116.3704			
50	Sn	MV	ABS	25.57450495	BB	0.485	73.0700	115.8903			
44	Ru	M2-N4		25.50000000	0.01 C	0.486	72.8571	115.5527			
23	V	LB17		25.45809937	0.01 C	0.487	72.7374	115.3628			
70	Yb	NI	ABS	25.44852217	BB	0.487	72.7101	115.3194			
50	Sn	M4-O2		25.29999924	0.1 C	0.490	72.2857	114.6464			
74	W	NII	ABS	25.22074858	BB	0.492	72.0593	114.2873			
50	Sn	MIV	ABS	25.13383337	BB	0.493	71.8110	113.8934			
77	Ir	NIII	ABS	25.08298604	BB	0.494	71.6657	113.6630			
45	Rh	MG		25.01000023	1 C	0.496	71.4571	113.3323			
45	Rh	MIII	ABS	24.98694075	BB	0.496	71.3913	113.2278			

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
24	Cr	LI	24.79619980	15.88 C	0.500		70.8463	112.3634			
84	Po	NIV	24.78712515	BB	0.500		70.8204	112.3223			
21	Sc	LI	24.77721823	BB	0.500		70.7921	112.2774			
42	Mo	MI	24.57098692	BB	0.504		70.2028	111.3429			
48	Cd	M3-N1	24.50000000	0.1 C	0.506		70.0000	111.0212			
71	Lu	NI	24.49332280	BB	0.506		69.9809	110.9909			
47	Ag	M5-N1	24.39999962	0.01 C	0.508		69.7143	110.5681			
24	Cr	Ln	24.30999947	7.8 C	0.510		69.4571	110.1602			
23	V	LA1	24.26239967	100 C	0.511		69.3211	109.9445			
23	V	LA2	24.26239967	11.41 C	0.511		69.3211	109.9445			
23	V	LB6	24.21500015	0.24 C	0.512		69.1857	109.7297			
23	V	LIII	24.17336713	BB	0.513		69.0668	109.5411			
75	Re	NII	23.93998841	BB	0.518		68.4000	108.4835			
78	Pt	NIII	23.88924855	BB	0.519		68.2550	108.2536	259.6960		
22	Ti	LB3	23.88839912	11.96 C	0.519		68.2526	108.2497	259.6868		
22	Ti	LB4	23.88839912	6.27 C	0.519		68.2526	108.2497	259.6868		
22	Ti	LB9	23.88839912	0.01 C	0.519		68.2526	108.2497	259.6868		
23	V	LB1	23.88839912	56.84 C	0.519		68.2526	108.2497	259.6868		
23	V	LG5	23.88839912	1.19 C	0.519		68.2526	108.2497	259.6868		
23	V	LII	23.82040346	BB	0.520		68.0583	107.9416	258.9476		
45	Rh	MII	23.79754319	BB	0.521		67.9930	107.8380	258.6991		
8	O	KA1	23.70779300	100	0.523		67.7366	107.4313	257.7234		
8	O	KA2	23.70779300	50	0.523		67.7366	107.4313	257.7234		
8	O	KA1,2	23.61540031	150 C	0.525		67.4726	107.0127	256.7190		
51	Sb	MV	23.50430332	BB	0.527		67.1552	106.5092	255.5113		
46	Pd	MIII	23.32741298	BB	0.531		66.6498	105.7076	253.5884		
8	O	K	23.30548872	BB	0.532		66.5871	105.6083	253.3500		
46	Pd	MG	23.29999924	1 C	0.532		66.5714	105.5834	253.2904		
85	At	NIV	23.25303826	BB	0.533		66.4373	105.3706	252.7799		
51	Sb	MIV	23.09279195	BB	0.537		65.9794	104.6445	251.0378		
72	Hf	NI	23.04129344	BB	0.538		65.8323	104.4111	250.4780		
48	Cd	M2-N1	22.89999962	0.01 C	0.541		65.4286	103.7708	248.9420		
79	Au	NIII	22.73289329	BB	0.545		64.9511	103.0136	247.1254		
76	Os	NII	22.68713632	BB	0.546		64.8204	102.8062	246.6280		
24	Cr	LB17	22.66559982	0.01 C	0.547		64.7589	102.7087	246.3939		
25	Mn	LI	22.29870033	13.25 C	0.556		63.7106	101.0461	242.4054		
46	Pd	MII	22.17585405	BB	0.559		63.3596	100.4894	241.0700		
46	Pd	M2-N4	22.10000038	0.5 C	0.561		63.1429	100.1457	240.2454		
22	Ti	LI	21.99489090	BB	0.564		62.8425	99.6694	239.1027		
73	Ta	NI	21.92488064	BB	0.565		62.6425	99.3521	238.3417		

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
86	Rn	NIV	ABS	21.88231557	BB	0.566	62.5209	99.1592	237.8790		
25	Mn	Ln		21.86610031	6.43 C	0.567	62.4746	99.0857	237.7027		
47	Ag	MG		21.81999969	1 C	0.568	62.3429	98.8768	237.2015		
52	Te	M5-O3		21.78000069	0.01 C	0.569	62.2286	98.6956	236.7667		
80	Hg	NIII	ABS	21.71369527	BB	0.571	62.0391	98.3951	236.0459		
47	Ag	MIII	ABS	21.69849492	BB	0.571	61.9957	98.3262	235.8807		
52	Te	MV	ABS	21.67194546	BB	0.572	61.9198	98.2059	235.5921		
24	Cr	LA1		21.63719940	100 C	0.573	61.8206	98.0485	235.2143		
24	Cr	LA2		21.63719940	11.44 C	0.573	61.8206	98.0485	235.2143		
24	Cr	LB6		21.63719940	0.56 C	0.573	61.8206	98.0485	235.2143		
24	Cr	LIII	ABS	21.58140992	BB	0.574	61.6612	97.7957	234.6079		
50	Sn	M3-N1		21.50000000	0.1 C	0.577	61.4286	97.4268	233.7229		
87	Fr	NV	ABS	21.48790295	BB	0.577	61.3940	97.3720	233.5914		
77	Ir	NII	ABS	21.48417952	BB	0.577	61.3834	97.3551	233.5509		
52	Te	M4-O2		21.34000015	0.1 C	0.581	60.9714	96.7017	231.9835		
52	Te	MIV	ABS	21.28501288	BB	0.582	60.8143	96.4526	231.3858		
24	Cr	LB1		21.26600075	57.27 C	0.583	60.7600	96.3664	231.1791		
24	Cr	LG5		21.26600075	0.74 C	0.583	60.7600	96.3664	231.1791		
24	Cr	LII	ABS	21.24125407	BB	0.584	60.6893	96.2543	230.9101		
44	Ru	MI	ABS	21.19405128	BB	0.585	60.5544	96.0404	230.3970		
23	V	LB3		21.19330025	7.56 C	0.585	60.5523	96.0370	230.3888		
23	V	LB4		21.19330025	3.98 C	0.585	60.5523	96.0370	230.3888		
23	V	LB9		21.19330025	0.01 C	0.585	60.5523	96.0370	230.3888		
74	W	NI	ABS	20.83784874	BB	0.595		94.4262	226.5247		
56	Ba	MZ1		20.69000000	1	0.599		93.7563	224.9175		
47	Ag	M2-N4		20.65999985	0.5 C	0.600		93.6203	224.5914		
56	Ba	MZ1,2		20.63999939	0.01 C	0.601		93.5297	224.3739		
47	Ag	MII	ABS	20.58187251	BB	0.602		93.2663	223.7421		
88	Ra	NV	ABS	20.57162768	BB	0.603		93.2199	223.6307		
87	Fr	NIV	ABS	20.55116857	BB	0.603		93.1272	223.4083		
48	Cd	MG		20.46999931	1 C	0.606		92.7593	222.5259		
81	Tl	NIII	ABS	20.35881773	BB	0.609		92.2555	221.3173		
78	Pt	NII	ABS	20.35213395	BB	0.609		92.2252	221.2446		
25	Mn	LB17		20.32480049	0.01 C	0.610		92.1014	220.9475		
51	Sb	M3-N1		20.20000076	0.1 C	0.614		91.5359	219.5908		
26	Fe	LI		20.15950012	10.53 C	0.615		91.3523	219.1505		
48	Cd	MIII	ABS	20.11114355	BB	0.616		91.1332	218.6248		
46	Pd	M1-N2		20.10000038	1 C	0.617		91.0827	218.5037		
53	I	MV	ABS	20.01698418	BB	0.619		90.7065	217.6013		
50	Sn	M2-N1		20.00000000	0.01 C	0.620		90.6296	217.4166		

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
75	Re	NI	ABS	19.83763200	BB	0.625		89.8938	215.6515		
45	Rh	MI	ABS	19.77120077	BB	0.627		89.5928	214.9294		
26	Fe	Ln		19.74220085	5.11 C	0.628		89.4613	214.6141		
23	V	LI	ABS	19.73658071	BB	0.628		89.4359	214.5530		
53	I	MIV	ABS	19.63966419	BB	0.631		88.9967	213.4995		
88	Ra	NIV	ABS	19.49759396	BB	0.636		88.3529	211.9551		
25	Mn	LA1		19.46330070	100 C	0.637		88.1975	211.5823		
25	Mn	LA2		19.46330070	11.38 C	0.637		88.1975	211.5823		
57	La	MZ1,2		19.44000053	0.01 C	0.638		88.0919	211.3290		
57	La	MZ1		19.43000000	1	0.638		88.0466	211.2203		
48	Cd	M2-N4		19.39999962	0.5 C	0.639		87.9107	210.8941		
25	Mn	LB6		19.37199974	1.19 C	0.640		87.7838	210.5897		
25	Mn	LIII	ABS	19.36361081	BB	0.640		87.7458	210.4985		
79	Au	NII	ABS	19.26133292	BB	0.644		87.2823	209.3867		
82	Pb	NIII	ABS	19.23742436	BB	0.644		87.1740	209.1268		
25	Mn	LB1		19.10339928	56.49 C	0.649		86.5666	207.6698		
25	Mn	LG5		19.10339928	0.58 C	0.649		86.5666	207.6698		
52	Te	M3-N1		19.10000038	0.1 C	0.649		86.5512	207.6329		
48	Cd	MII	ABS	19.05412633	BB	0.651		86.3433	207.1342		
25	Mn	LII	ABS	19.03365060	BB	0.651		86.2506	206.9116		
24	Cr	LB3		18.95730019	6.04 C	0.654		85.9046	206.0816		
24	Cr	LB4		18.95730019	3.2 C	0.654		85.9046	206.0816		
24	Cr	LB9		18.95730019	0.01 C	0.654		85.9046	206.0816		
76	Os	NI	ABS	18.94928932	BB	0.654		85.8683	205.9945		
47	Ag	M1-N2		18.79999924	1 C	0.659		85.1918	204.3716		
51	Sb	M2-N1		18.79999924	0.01 C	0.659		85.1918	204.3716		
49	In	MIII	ABS	18.66403733	BB	0.664		84.5757	202.8936		
46	Pd	MI	ABS	18.50801612	BB	0.670		83.8687	201.1975		
54	Xe	MV	ABS	18.44194556	BB	0.672		83.5693	200.4793		
58	Ce	MZ1		18.38000000	1	0.674		83.2886	199.8059		
89	Ac	NIV	ABS	18.37089939	BB	0.675		83.2473	199.7069		
58	Ce	MZ1,2		18.35000038	0.01 C	0.676		83.1526	199.4798		
26	Fe	LB17		18.34040070	0.01 C	0.676		83.1091	199.3754		
90	Th	NV	ABS	18.33015967	BB	0.676		83.0627	199.2641		
80	Hg	NII	ABS	18.31661988	BB	0.677		83.0014	199.1169		
9	F	KA1,2		18.31329918	150 C	0.677		82.9863	199.0808		
9	F	KA1		18.30690500	100	0.677		82.9573	199.0113		
9	F	KA2		18.30690500	50	0.677		82.9573	199.0113		
27	Co	LI		18.28630066	8.84 C	0.678		82.8640	198.7873		
83	Bi	NIII	ABS	18.26266019	BB	0.679		82.7568	198.5303		

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
9	F	K	ABS	18.08946601	BB	0.685		81.9720	196.6475		
77	Ir	NI	ABS	17.96626576	BB	0.690		81.4137	195.3082		
50	Sn	MG		17.94000053	1 C	0.691		81.2947	195.0227		
27	Co	Ln		17.86470032	4.26 C	0.694		80.9535	194.2041		
24	Cr	LI	ABS	17.84987043	BB	0.694		80.8863	194.0429		
49	In	MII	ABS	17.65667901	BB	0.702		80.0108	191.9428		
52	Te	M2-N1		17.60000038	0.01 C	0.704		79.7540	191.3266		
84	Po	NIII	ABS	17.58655319	BB	0.705		79.6931	191.1805		
26	Fe	LA1		17.58600044	100 C	0.705		79.6906	191.1744		
26	Fe	LA2		17.58600044	11.44 C	0.705		79.6906	191.1744		
26	Fe	LB6		17.51140022	0.91 C	0.708		79.3525	190.3635		
26	Fe	LIII	ABS	17.50956080	BB	0.708		79.3442	190.3435		
91	Pa	NV	ABS	17.50708839	BB	0.708		79.3330	190.3166		
26	Fe	SLA3		17.44500000	1	0.711		79.0516	189.6417		
26	Fe	SLA4		17.39100000	1	0.713		78.8069	189.0546		
59	Pr	MZ1,2		17.37999916	0.01 C	0.713		78.7571	188.9350		
90	Th	NIV	ABS	17.36244223	BB	0.714		78.6775	188.7442		
50	Sn	MIII	ABS	17.35515118	BB	0.714		78.6445	188.6649		
47	Ag	MI	ABS	17.28016725	BB	0.717		78.3047	187.8498		
26	Fe	LB1		17.26749992	56.51 C	0.718		78.2473	187.7121		
26	Fe	LG5		17.26749992	0.45 C	0.718		78.2473	187.7121		
25	Mn	LB3		17.19569969	5.17 C	0.721		77.9219	186.9315		
25	Mn	LB4		17.19569969	2.75 C	0.721		77.9219	186.9315		
25	Mn	LB9		17.19569969	0.01 C	0.721		77.9219	186.9315		
26	Fe	LII	ABS	17.19389821	BB	0.721		77.9138	186.9120		
81	Tl	NII	ABS	17.18913074	BB	0.721		77.8922	186.8601		
78	Pt	NI	ABS	17.17246537	BB	0.722		77.8166	186.6790		
26	Fe	SLB1'		17.12900000	1	0.724		77.6197	186.2065		
55	Cs	MV	ABS	17.08962095	BB	0.725		77.4412	185.7784		
26	Fe	SLB1"		17.07700000	1	0.726		77.3840	185.6412		
50	Sn	M2-N4		16.93000031	0.5 C	0.732		76.7179	184.0432		
51	Sb	MG		16.92000008	1 C	0.733		76.6726	183.9345		
92	U	NV	ABS	16.80699471	BB	0.738		76.1605	182.7060		
55	Cs	MIV	ABS	16.76608519	BB	0.739		75.9751	182.2613		
85	At	NIII	ABS	16.75475676	BB	0.740		75.9238	182.1381		
28	Ni	LI		16.68650055	7.53 C	0.743		75.6145	181.3961		
91	Pa	NIV	ABS	16.67812752	BB	0.743		75.5766	181.3051		
27	Co	LB17		16.61940002	0.01 C	0.746		75.3104	180.6667		
60	Nd	MZ1,2		16.45999908	0.01 C	0.753		74.5881	178.9339		
50	Sn	MII	ABS	16.39148599	BB	0.756		74.2777	178.1891		

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
79	Au	NI	ABS	16.33964154	BB	0.759		74.0427	177.6255		
28	Ni	Ln		16.27050018	3.3 C	0.762		73.7294	176.8739		
82	Pb	NII	ABS	16.23055374	BB	0.764		73.5484	176.4396		
56	Ba	M5-O3		16.20000076	0.01 C	0.765		73.4099	176.1075		
51	Sb	MIII	ABS	16.19451411	BB	0.765		73.3851	176.0478		
86	Rn	NIII	ABS	16.14390625	BB	0.768		73.1557	175.4977		
25	Mn	LI	ABS	16.12291287	BB	0.769		73.0606	175.2695		
48	Cd	MI	ABS	16.09779278	BB	0.770		72.9468	174.9964		
93	Np	NV	ABS	16.09570297	BB	0.770		72.9373	174.9737		
51	Sb	M2-N4		15.97999954	0.5 C	0.776		72.4130	173.7159		
27	Co	LA1		15.97690010	100 C	0.776		72.3990	173.6822		
27	Co	LA2		15.97690010	11.46 C	0.776		72.3990	173.6822		
27	Co	LB6		15.93589973	0.73 C	0.778		72.2132	173.2365		
52	Te	MG		15.93000031	1 C	0.778		72.1864	173.1723		
27	Co	LIII	ABS	15.92412022	BB	0.778		72.1598	173.1084		
56	Ba	M4-O2		15.90999985	0.1 C	0.779		72.0958	172.9549		
92	U	NIV	ABS	15.88739108	BB	0.780		71.9934	172.7091		
56	Ba	MV	ABS	15.88128603	BB	0.781		71.9657	172.6428		
27	Co	SLA3		15.84500000	1	0.782		71.8013	172.2483		
27	Co	SLA4		15.76800000	1	0.786		71.4523	171.4113		
27	Co	SLA5		15.73100000	1	0.788		71.2847	171.0090		
56	Ba	M4-O3		15.72000027	0.1 C	0.789		71.2348	170.8895		
27	Co	LB1		15.67399979	56.68 C	0.791		71.0264	170.3894		
27	Co	LG5		15.67399979	0.35 C	0.791		71.0264	170.3894		
26	Fe	LB3		15.65419960	4.79 C	0.792		70.9367	170.1742		
26	Fe	LB4		15.65419960	2.57 C	0.792		70.9367	170.1742		
26	Fe	LB9		15.65419960	0.01 C	0.792		70.9367	170.1742		
27	Co	LII	ABS	15.62313508	BB	0.793		70.7959	169.8365		
56	Ba	MIV	ABS	15.57407361	BB	0.796		70.5736	169.3031		
27	Co	SLB1'		15.55300000	1	0.797		70.4781	169.0740		
80	Hg	NI	ABS	15.49234037	BB	0.800		70.2032	168.4146		
27	Co	SLB1''		15.48800000	1	0.800		70.1835	168.3674		
94	Pu	NV	ABS	15.47107562	BB	0.801		70.1068	168.1835		
83	Bi	NII	ABS	15.39615050	BB	0.805		69.7673	167.3690		
87	Fr	NIII	ABS	15.30681481	BB	0.810		69.3625	166.3978		
29	Cu	LI		15.28740025	6.38 C	0.811		69.2745	166.1867		
51	Sb	MII	ABS	15.27099396	BB	0.812		69.2002	166.0084		
93	Np	NIV	ABS	15.19612698	BB	0.816		68.8609	165.1945		
52	Te	MIII	ABS	15.14415537	BB	0.819		68.6254	164.6296		
28	Ni	LB17		15.11960030	0.01 C	0.820		68.5141	164.3626		

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
49	In	MI	ABS	15.01758721	BB	0.825		68.0519	163.2537		
95	Am	NV	ABS	14.98129531	BB	0.827		67.8874	162.8591		
62	Sm	MZ1,2		14.90999985	0.01 C	0.831		67.5643	162.0841		
57	La	MV	ABS	14.90744259	BB	0.832		67.5527	162.0563		
29	Cu	Ln		14.90159988	2.75 C	0.832		67.5263	161.9928		
57	La	MA1,2		14.88000011	200 C	0.833		67.4284	161.7580		
57	La	MA1		14.88000000	100	0.833		67.4284	161.7580		
57	La	MA2		14.88000000	100	0.833		67.4284	161.7580		
81	Tl	NI	ABS	14.66412774	BB	0.845		66.4502	159.4113		
26	Fe	LI	ABS	14.65372887	BB	0.846		66.4030	159.2982		
10	Ne	KA1,2		14.62040043	150 C	0.848		66.2520	158.9359		
10	Ne	KA1		14.61500000	100	0.848		66.2275	158.8772		
10	Ne	KA2		14.61500000	50	0.848		66.2275	158.8772		
57	La	MIV	ABS	14.61228049	BB	0.848		66.2152	158.8476		
94	Pu	NIV	ABS	14.60539522	BB	0.849		66.1840	158.7728		
84	Po	NII	ABS	14.56935370	BB	0.851		66.0207	158.3810		
28	Ni	LA1		14.56890011	100 C	0.851		66.0186	158.3761		
28	Ni	LA2		14.56890011	11.45 C	0.851		66.0186	158.3761		
28	Ni	LB6		14.51770020	0.59 C	0.854		65.7866	157.8195		
57	La	MB		14.51000023	45 C	0.854		65.7517	157.7358		
28	Ni	LIII	ABS	14.50628291	BB	0.855		65.7349	157.6954		
10	Ne	SKA		14.50000000	0.01 C	0.855		65.7064	157.6271		
28	Ni	SLA3		14.48900000	1	0.856		65.6566	157.5075		
10	Ne	KB1		14.46000000	1	0.857		65.5252	157.1922		
28	Ni	SLA4		14.43300000	1	0.859		65.4028	156.8987		
58	Ce	M5-O2		14.39000034	0.01 C	0.861		65.2080	156.4313		
28	Ni	SLA5		14.38400000	1	0.862		65.1808	156.3660		
27	Co	LB3		14.31649971	4.66 C	0.866		64.8749	155.6323		
27	Co	LB4		14.31649971	2.51 C	0.866		64.8749	155.6323		
27	Co	LB9		14.31649971	0.01 C	0.866		64.8749	155.6323		
10	Ne	K	ABS	14.30213404	BB	0.867		64.8098	155.4761		
28	Ni	LB1		14.26710033	51.86 C	0.869		64.6510	155.0952		
52	Te	MII	ABS	14.25608831	BB	0.870		64.6011	154.9755		
28	Ni	LG5		14.25070000	0.26 C	0.870		64.5767	154.9170		
28	Ni	LII	ABS	14.22011699	BB	0.872		64.4381	154.5845		
63	Eu	MZ1,2		14.22000027	0.01 C	0.872		64.4376	154.5832		
63	Eu	MZ1		14.21966600	1	0.872		64.4361	154.5796		
28	Ni	SLB1'		14.18600000	1	0.874		64.2835	154.2136		
53	I	MIII	ABS	14.17621770	BB	0.874		64.2392	154.1073		
28	Ni	SLB1''		14.14100000	1	0.877		64.0796	153.7244		

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
95	Am	NIV	ABS	14.11007170	BB	0.879		63.9395	153.3882		
88	Ra	NIII	ABS	14.10365146	BB	0.879		63.9104	153.3184		
58	Ce	MA1		14.05834100	100	0.882		63.7051	152.8259		
58	Ce	MA2		14.05834100	100	0.882		63.7051	152.8259		
58	Ce	MA1,2		14.03999996	200 C	0.883		63.6219	152.6265		
58	Ce	MV	ABS	14.03659006	BB	0.883		63.6065	152.5894		
50	Sn	MI	ABS	14.02864902	BB	0.884		63.5705	152.5031		
30	Zn	LI		14.02499962	5.86 C	0.884		63.5540	152.4634		
85	At	NII	ABS	13.99381490	BB	0.886		63.4127	152.1244		
89	Ac	NIII	ABS	13.93092135	BB	0.890		63.1277	151.4407		
82	Pb	NI	ABS	13.87479857	BB	0.893		62.8733	150.8306		
29	Cu	LB17		13.83720016	0.01 C	0.896		62.7030	150.4219		
90	Th	N3-O5		13.80000000	1	0.898		62.5344	150.0175		
58	Ce	MIV	ABS	13.75626318	BB	0.901		62.3362	149.5420		
58	Ce	MB		13.75000000	45 C	0.902		62.3078	149.4739		
30	Zn	Ln		13.68439960	2.51 C	0.906		62.0106	148.7608		
64	Gd	MZ1,2		13.56999969	0.01 C	0.913		61.4921	147.5172		
64	Gd	MZ1		13.56835300	1	0.914		61.4847	147.4993		
29	Cu	SLA^6		13.39700000	1	0.925		60.7082	145.6365		
27	Co	LI	ABS	13.39511668	BB	0.925		60.6997	145.6161		
29	Cu	SLA^5		13.37900000	1	0.927		60.6266	145.4409		
83	Bi	NG1		13.36000000	1	0.928		60.5405	145.2343		
83	Bi	NG3		13.36000000	1	0.928		60.5405	145.2343		
86	Rn	NII	ABS	13.34609257	BB	0.929		60.4775	145.0831		
59	Pr	MA1,2		13.34300041	200 C	0.929		60.4635	145.0495		
59	Pr	MA1		13.34300000	100	0.929		60.4635	145.0495		
59	Pr	MA2		13.34300000	100	0.929		60.4635	145.0495		
29	Cu	LA1		13.33129978	100 C	0.930		60.4105	144.9223		
29	Cu	LA2		13.33129978	11.47 C	0.930		60.4105	144.9223		
53	I	MII	ABS	13.32457818	BB	0.930		60.3800	144.8492		
59	Pr	MV	ABS	13.31742213	BB	0.931		60.3476	144.7714		
29	Cu	LB6		13.31700039	0.58 C	0.931		60.3457	144.7669		
29	Cu	LIII	ABS	13.31599184	BB	0.931		60.3411	144.7559		
29	Cu	SLA3'		13.27700000	1	0.934		60.1644	144.3320		
29	Cu	SLA3'''		13.26100000	1	0.935		60.0919	144.1581		
29	Cu	SLA3''		13.23300000	1	0.937			143.8537		
54	Xe	MIII	ABS	13.23214514	BB	0.937			143.8444		
83	Bi	NI	ABS	13.21522064	BB	0.938			143.6604		
29	Cu	SLA4		13.17600000	1	0.941			143.2341		
28	Ni	LB3		13.17549992	4.4 C	0.941			143.2286		

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
28	Ni	LB4	13.17549992	2.37 C	0.941				143.2286		
51	Sb	MI	13.13820070	BB	0.944				142.8232		
28	Ni	LB9	13.11970043	0.01 C	0.945				142.6220		
59	Pr	MB	13.06000042	45 C	0.949				141.9731		
29	Cu	LB1	13.05060005	51.28 C	0.950				141.8709		
29	Cu	LII	13.03735016	BB	0.951				141.7268		
59	Pr	MIV	13.03597939	BB	0.951				141.7119		
29	Cu	LG5	13.00959969	0.21 C	0.953				141.4252		
29	Cu	SLB1'	12.98900000	1	0.954				141.2012		
65	Tb	MZ1,2	12.97999954	0.01 C	0.955				141.1034		
65	Tb	MZ1	12.97515700	1	0.955				141.0507		
29	Cu	SLB1"	12.95700000	1	0.957				140.8534		
31	Ga	LI	12.95520020	5.44 C	0.957				140.8338		
29	Cu	SLB1""	12.91100000	1	0.960				140.3533		
92	U	N3-O5	12.90000000	1	0.961				140.2337		
90	Th	NIII	12.81765740	BB	0.967				139.3386		
56	Ba	MG	12.75000000	1 C	0.972				138.6031		
30	Zn	LB17	12.68999958	0.01 C	0.977				137.9508		
60	Nd	MV	12.68131329	BB	0.978				137.8564		
60	Nd	MA1,2	12.68000031	200 C	0.978				137.8421		
60	Nd	MA1	12.67555300	100	0.978				137.7938		
60	Nd	MA2	12.67555300	100	0.978				137.7938		
87	Fr	NII	12.65155102	BB	0.980				137.5329		
31	Ga	Ln	12.59969997	2.51 C	0.984				136.9692		
84	Po	NI	12.45706822	BB	0.995				135.4187		
60	Nd	MB	12.43999958	55 C	0.996				135.2331		
66	Dy	MZ1,2	12.43000031	0.01 C	0.997				135.1244		
55	Cs	MIII	12.42834804	BB	0.997				135.1065		
66	Dy	MZ1	12.42605000	1	0.998				135.0815		
54	Xe	MII	12.41093093	BB	0.999				134.9171		
60	Nd	MIV	12.39975998	BB	1.000				134.7957		
52	Te	MI	12.32457256	BB	1.006				133.9783		
91	Pa	NIII	12.31600278	BB	1.006				133.8852		
28	Ni	LI	12.29889892	BB	1.008				133.6993		
30	Zn	LA1	12.25109959	100 C	1.012				133.1796		
30	Zn	LA2	12.25109959	11.44 C	1.012				133.1796		
30	Zn	SLA3'	12.19600000	1	1.016				132.5807		
30	Zn	SLA3"	12.17800000	1	1.018				132.3850		
30	Zn	LIII	12.15898794	BB	1.019				132.1783		
30	Zn	LB6	12.15499973	0.56 C	1.020				132.1350		

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
30	Zn	SLA4'''	12.15300000	1	1.020				132.1132		
29	Cu	LB3	12.11940002	4.21 C	1.023				131.7480		
29	Cu	LB4	12.11940002	2.29 C	1.023				131.7480		
30	Zn	SLA'''	12.11000000	1	1.024				131.6458		
57	La	MG	12.07999992	1 C	1.026				131.3196		
61	Pm	MV	12.07373649	BB	1.027				131.2516		
30	Zn	LB1	11.99040031	51.4 C	1.034				130.3456		
32	Ge	LI	11.96730042	5.11 C	1.036				130.0945		
29	Cu	LB9	11.94419956	0.02 C	1.038				129.8434		
30	Zn	SLB1'	11.93500000	1	1.039				129.7434		
30	Zn	LG5	11.93270016	0.18 C	1.039				129.7184		
11	Na	KA1,2	11.90979958	150 C	1.041				129.4694		
11	Na	KA1	11.90900800	100	1.041				129.4608		
11	Na	KA2	11.90900800	50	1.041				129.4608		
30	Zn	SLB1''	11.90200000	1	1.042				129.3846		
85	At	NI	11.89877159	BB	1.042				129.3495		
30	Zn	LII	11.88964327	BB	1.043				129.2503		
92	U	NIII	11.86574792	BB	1.045				128.9905		
67	Ho	MZ1	11.86291500	1	1.045				128.9597		
67	Ho	MZ1,2	11.85999966	0.01 C	1.045				128.9281		
11	Na	SKA'	11.83700000	3	1.047				128.6780		
11	Na	SKA3	11.80500000	12	1.050				128.3302		
61	Pm	MIV	11.79126961	BB	1.051				128.1809		
11	Na	SKA4	11.78600000	12	1.052				128.1236		
11	Na	SKA8	11.73600000	1	1.056				127.5801		
88	Ra	NII	11.72326021	BB	1.057				127.4416		
11	Na	SKA5	11.71700000	1	1.058				127.3735		
11	Na	SKA7	11.70200000	1	1.059				127.2105		
11	Na	SKA6	11.68600000	1	1.061				127.0365		
56	Ba	MIII	11.67249106	BB	1.062				126.8897		
31	Ga	LB17	11.65240002	0.01 C	1.064				126.6713		
11	Na	SKA9	11.64600000	1	1.064				126.6017		
55	Cs	MII	11.64180282	BB	1.065				126.5561		
11	Na	SKA11	11.62500000	1	1.066				126.3734		
11	Na	KB1	11.61742000	1	1.067				126.2910		
32	Ge	Ln	11.60869980	2 C	1.068				126.1962		
11	Na	SKA10	11.59800000	1	1.069				126.0799		
11	Na	K	11.56470479	BB	1.072				125.7180		
53	I	MI	11.56470479	BB	1.072				125.7180		
90	Th	N2-O4	11.56000000	1	1.072				125.6668		

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
11	Na	SKBX	11.55400000	1	1.073				125.6016		
11	Na	SKA13	11.54500000	1	1.074				125.5037		
58	Ce	MG	11.52999973	1 C	1.075				125.3407		
11	Na	SKA14	11.51700000	1	1.076				125.1994		
11	Na	SKB^6	11.48900000	1	1.079				124.8950		
89	Ac	NII	ABS	11.48011111	BB	1.080			124.7984		
62	Sm	MV	ABS	11.47798556	BB	1.080			124.7752		
62	Sm	MA1,2		11.47000027	200 C	1.081			124.6884		
62	Sm	MA1		11.42904000	100	1.085			124.2432		
62	Sm	MA2		11.42904000	100	1.085			124.2432		
93	Np	NIII	ABS	11.40828119	BB	1.087			124.0175		
11	Na	SKB^3		11.39800000	1	1.088			123.9057		
68	Er	MZ1		11.37092300	1	1.090			123.6114		
68	Er	MZ1,2		11.36999989	0.01 C	1.090			123.6013		
29	Cu	LI	ABS	11.31148618	BB	1.096			122.9653		
11	Na	SKB^4		11.31100000	1	1.096			122.9600		
86	Rn	NI	ABS	11.30220602	BB	1.097			122.8644		
31	Ga	LA1		11.29150009	100 C	1.098			122.7480		
31	Ga	LA2		11.29150009	11.42 C	1.098			122.7480		
62	Sm	MB		11.27000046	45 C	1.100			122.5143		
31	Ga	SLA3'		11.24000000	1	1.103			122.1881		
31	Ga	SLA3"		11.22000000	1	1.105			121.9707		
62	Sm	MIV	ABS	11.21023508	BB	1.106			121.8646		
30	Zn	LB3		11.19970036	4.32 C	1.107			121.7501		
30	Zn	LB4		11.19970036	2.36 C	1.107			121.7501		
31	Ga	SLA4		11.19000000	1	1.108			121.6446		
11	Na	SKB^7		11.16000000	1	1.111			121.3185		
94	Pu	NIII	ABS	11.12174381	BB	1.115			120.9026		
31	Ga	LB6		11.11940002	0.53 C	1.115			120.8771		
31	Ga	LIII	ABS	11.11576116	BB	1.115			120.8376		
90	Th	N2-P1		11.07000000	1	1.120			120.3401		
33	As	LI		11.06970024	4.93 C	1.120			120.3368		
57	La	MIII	ABS	11.03660317	BB	1.123			119.9771		
31	Ga	LB1		11.02050018	55.68 C	1.125			119.8020		
59	Pr	MG		10.99800014	1 C	1.127			119.5574		
31	Ga	SLB1'		10.99000000	1	1.128			119.4704		
31	Ga	LG5		10.97179985	0.22 C	1.130			119.2726		
63	Eu	MV	ABS	10.96340967	BB	1.131			119.1814		
63	Eu	MA1,2		10.96000004	200 C	1.131			119.1443		
31	Ga	SLB1"		10.96000000	1	1.131			119.1443		

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
63	Eu	MA1	10.95408300	100	1.132				119.0800		
63	Eu	MA2	10.95408300	100	1.132				119.0800		
31	Ga	L2-N3	10.94270039	0.01 C	1.133				118.9562		
30	Zn	LB9	10.92350006	0.02 C	1.135				118.7475		
95	Am	NIII	10.91707317	BB	1.135				118.6777		
56	Ba	MII	10.90746899	BB	1.136				118.5733		
31	Ga	LII	10.85399632	BB	1.142				117.9920		
87	Fr	NI	10.75326973	BB	1.153				116.8970		
63	Eu	MB	10.75000000	45 C	1.153				116.8614		
96	Cm	NIII	10.74395147	BB	1.154				116.7957		
32	Ge	LB17	10.74359989	0.01 C	1.154				116.7919		
33	As	Ln	10.73429966	1.93 C	1.155				116.6908		
63	Eu	MIV	10.68285370	BB	1.160				116.1315		
90	Th	NII	10.61517123	BB	1.168				115.3957		
60	Nd	MG	10.50500011	1 C	1.180				114.1981		
70	Yb	MZ2	10.48313300	1	1.182				113.9604		
70	Yb	MZ1,2	10.47999954	0.01 C	1.183				113.9263		
70	Yb	MZ1	10.47912500	1	1.183				113.9168		
64	Gd	MV	10.46112049	BB	1.185				113.7211		
64	Gd	MA1,2	10.46000004	200 C	1.185				113.7089		
58	Ce	MIII	10.45935549	BB	1.185				113.7019		
32	Ge	LA1	10.43610001	100 C	1.188				113.4491		
32	Ge	LA2	10.43610001	11.33 C	1.188				113.4491		
64	Gd	MA1	10.41499600	100	1.190				113.2197		
64	Gd	MA2	10.41499600	100	1.190				113.2197		
92	U	N2-P1	10.40000000	1	1.192				113.0566		
30	Zn	LI	10.38750000	BB	1.193				112.9208		
32	Ge	SLA3'	10.38500000	1	1.194				112.8936		
32	Ge	SLA3'''	10.37000000	1	1.195				112.7305		
31	Ga	LB3	10.35770035	4.61 C	1.197				112.5968		
31	Ga	LB4	10.35770035	2.52 C	1.197				112.5968		
32	Ge	SLA4	10.34400000	1	1.198				112.4479		
34	Se	LI	10.29740047	4.76 C	1.204				111.9413		
57	La	MII	10.29435404	BB	1.204				111.9082		
88	Ra	NI	10.26027805	BB	1.208				111.5378		
64	Gd	MB	10.25399971	45 C	1.209				111.4695		
32	Ge	LB6	10.21259975	0.5 C	1.214				111.0194		
64	Gd	SMB2	10.19250000	1	1.216				110.8009		
32	Ge	LIII	10.19028520	BB	1.216				110.7769		
55	Cs	MI	10.18693616	BB	1.217				110.7405		

AN	EL	LINE		WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
64	Gd	MIV	ABS	10.18609924		BB	1.217			110.7314		
32	Ge	LB1		10.17910004	47.28	C	1.218			110.6553		
32	Ge	SLB1'		10.13200000		1	1.223			110.1433		
32	Ge	LG5		10.12919998	0.2	C	1.224			110.1128		
91	Pa	NII	ABS	10.12702769		BB	1.224			110.0892		
32	Ge	SLB1"		10.10500000		1	1.227			109.8497		
32	Ge	L2-N3		10.10439968	0.01	C	1.227			109.8432		
92	U	N1-O3		10.09000000		1	1.229			109.6867		
71	Lu	MZ1		10.06729500		1	1.231			109.4399		
31	Ga	LB9		10.03079987	0.02	C	1.236			109.0431		
65	Tb	MA1,2		10.00000000	200	C	1.240			108.7083		
65	Tb	MV	ABS	9.98913954		BB	1.241			108.5903		
59	Pr	MIII	ABS	9.98109805		BB	1.242			108.5028		
34	Se	Ln		9.96630001	1.87	C	1.244			108.3420		
65	Tb	MA1		9.93703230	100		1.247			108.0238		
65	Tb	MA2		9.93703230	100		1.247			108.0238		
32	Ge	LII	ABS	9.93630389		BB	1.248			108.0159		
33	As	LB17		9.92640018	0.01	C	1.249			107.9082		
12	Mg	KA1,2		9.89470005	150	C	1.253			107.5636		
12	Mg	KA1		9.88893540	100		1.254			107.5009		
12	Mg	KA2		9.88893540	50		1.254			107.5009		
12	Mg	SKA'		9.84785260	3		1.259			107.0543		
12	Mg	SKA		9.82400036	0.01	C	1.262			106.7950		
12	Mg	SKA3		9.82380410	8		1.262			106.7929		
12	Mg	SKA4		9.80777180	8		1.264			106.6186		
65	Tb	MB		9.79199982	45	C	1.266			106.4472		
89	Ac	NI	ABS	9.77030733		BB	1.269			106.2114		
12	Mg	SKA8		9.76869300	1		1.269			106.1938		
12	Mg	SKA5		9.75366270	1		1.271			106.0304		
65	Tb	SMB2		9.74765060	1		1.272			105.9651		
92	U	NII	ABS	9.74266855		BB	1.272			105.9109		
12	Mg	SKA7		9.74264050	1		1.272			105.9106		
58	Ce	MII	ABS	9.74113765		BB	1.273			105.8943		
12	Mg	SKA6		9.72761020	1		1.274			105.7472		
65	Tb	MIV	ABS	9.72432941		BB	1.275			105.7115		
12	Mg	SKA9		9.69754960	1		1.278			105.4204		
31	Ga	LG2		9.69359970	0.02	C	1.279			105.3775		
31	Ga	LG3		9.69359970	0.04	C	1.279			105.3775		
72	Hf	MZ1		9.68599987	0.01	C	1.280			105.2949		
72	Hf	MZ2		9.68599987	0.01	C	1.280			105.2949		

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
12	Mg	SKA11	9.67750920	1	1.281				105.2026		
12	Mg	SKBN	9.67249910	1	1.282				105.1481		
33	As	LA1	9.67090034	100 C	1.282				105.1307		
33	As	LA2	9.67090034	11.41 C	1.282				105.1307		
12	Mg	SKB'	9.66648690	1	1.282				105.0827		
12	Mg	SKA10	9.65947280	1	1.283				105.0065		
32	Ge	LB4	9.64080048	2.44 C	1.286				104.8035		
33	As	SLA3	9.63642630	1	1.286				104.7560		
12	Mg	SKA13	9.62239810	1	1.288				104.6035		
12	Mg	SKA14	9.60536370	1	1.291				104.4183		
33	As	SLA4	9.60135560	1	1.291				104.3747		
62	Sm	MG	9.60000038	1 C	1.291				104.3600		
56	Ba	MI	9.59043936	BB	1.293				104.2560		
66	Dy	MA1,2	9.59000015	200 C	1.293				104.2513		
35	Br	LI	9.58860016	4.62 C	1.293				104.2361		
32	Ge	LB3	9.58119965	4.43 C	1.294				104.1556		
66	Dy	MV	9.57488609	BB	1.295				104.0870		
12	Mg	KB1	9.56980000	1	1.295				104.0317		
60	Nd	MIII	9.55643595	BB	1.297				103.8864		
31	Ga	LI	9.55422671	BB	1.297				103.8624		
66	Dy	MA1	9.54323850	100	1.299				103.7429		
66	Dy	MA2	9.54323850	100	1.299				103.7429		
12	Mg	KBX	9.52300000	1	1.302				103.5229		
12	Mg	SKBX	9.51718600	1	1.302				103.4597		
12	Mg	K	9.50078161	BB	1.305				103.2814		
12	Mg	SKB^5	9.49213550	1	1.306				103.1874		
12	Mg	SLB^6	9.45506070	1	1.311				102.7844		
90	Th	NG1	9.44203450	1	1.313				102.6428		
33	As	LB1	9.41390038	47.96 C	1.317				102.3369		
33	As	LB6	9.41390038	0.53 C	1.317				102.3369		
90	Th	NG3	9.39894760	1	1.319				102.1744		
12	Mg	SKB^3	9.39193350	1	1.320				102.0981		
33	As	SLB1'	9.39193350	1	1.320				102.0981		
12	Mg	SKB	9.38500023	0.01 C	1.321				102.0228		
33	As	LIII	9.37081097	BB	1.323				101.8685		
12	Mg	SKB^3	9.36688300	1	1.323				101.8258		
33	As	SLB1''	9.36588090	1	1.324				101.8149		
66	Dy	MB	9.35700035	45 C	1.325				101.7184		
12	Mg	SKB^4	9.34584050	1	1.326				101.5971		
66	Dy	M4-N4	9.34183250	1	1.327				101.5535		

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
93	Np	NII	ABS	9.33834451	BB	1.327			101.5156		
73	Ta	MZ2		9.32999992	0.01 C	1.329			101.4249		
66	Dy	SMB2		9.32890640	1	1.329			101.4130		
90	Th	NI	ABS	9.32570139	BB	1.329			101.3781		
12	Mg	SKB^4		9.32379610	1	1.330			101.3574		
73	Ta	MZ1		9.31599998	0.1 C	1.331			101.2727		
66	Dy	MIV	ABS	9.30470544	BB	1.332			101.1499		
33	As	LG5		9.27999973	0.21 C	1.336			100.8813		
59	Pr	MII	ABS	9.27061463	BB	1.337			100.7793		
35	Br	Ln		9.25920010	1.82 C	1.339			100.6552		
33	As	L2-N3		9.25230026	0.01 C	1.340			100.5802		
32	Ge	LB9		9.24540043	0.02 C	1.341			100.5052		
63	Eu	MG		9.21100044	1 C	1.346			100.1312		
12	Mg	SKB^7		9.20455570	1	1.347			100.0612		
34	Se	LB17		9.20419979	0.01 C	1.347			100.0573		
67	Ho	MA1,2		9.19999981	200 C	1.347			100.0116		
67	Ho	MV	ABS	9.17457452	BB	1.351			99.7353		
67	Ho	MA1		9.16146890	100	1.353			99.5928		
67	Ho	MA2		9.16146890	100	1.353			99.5928		
61	Pm	MIII	ABS	9.13738669	BB	1.357			99.3310		
67	Ho	SMA		9.13241030	1	1.357			99.2769		
33	As	LII	ABS	9.12595319	BB	1.358			99.2067		
57	La	MI	ABS	9.10785279	BB	1.361			99.0099		
94	Pu	NII	ABS	9.03616354	BB	1.372			98.2306		
74	W	MZ2		8.99300003	0.01 C	1.378			97.7614		
34	Se	LA1		8.99069977	100 C	1.379			97.7364		
34	Se	LA2		8.99069977	11.42 C	1.379			97.7364		
67	Ho	MB		8.96500015	45 C	1.383			97.4570		
74	W	MZ1		8.96199989	0.01 C	1.383			97.4244		
67	Ho	M4-N4		8.96106490	1	1.383			97.4142		
34	Se	SLA3		8.95805880	1	1.384			97.3815		
36	Kr	LI		8.95170021	4.51 C	1.385			97.3124		
91	Pa	NI	ABS	8.93844712	BB	1.387			97.1684		
67	Ho	SMB2		8.93701640	1	1.387			97.1528		
33	As	LB3		8.93239975	4.77 C	1.388			97.1026		
33	As	LB4		8.93239975	2.6 C	1.388			97.1026		
34	Se	SLA4		8.92198610	1	1.389			96.9894		
67	Ho	MIV	ABS	8.91018326	BB	1.391			96.8611		
73	Ta	M4-N3		8.89999962	0.01 C	1.393			96.7504		
32	Ge	LG2		8.88749981	0.06 C	1.395			96.6145		

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
32	Ge	LG3	8.88749981	0.11 C	1.395				96.6145		
64	Gd	MG	8.84399986	1 C	1.402				96.1416		
60	Nd	MII	8.83840890	ABS BB	1.403				96.0809		
68	Er	MA1,2	8.81999969	200 C	1.405				95.8807		
92	U	NG1	8.80775580	1	1.407				95.7476		
68	Er	MA1	8.80074170	100	1.409				95.6714		
68	Er	MA2	8.80074170	100	1.409				95.6714		
68	Er	MV	8.79764422	ABS BB	1.409				95.6377		
95	Am	NII	8.78206545	ABS BB	1.412				95.4684		
68	Er	SMA	8.76867700	1	1.414				95.3228		
32	Ge	LI	8.76654175	ABS BB	1.414				95.2996		
92	U	NG3	8.76166290	1	1.415				95.2466		
34	Se	LB1	8.73719978	48.56 C	1.419				94.9806		
62	Sm	MIII	8.73258205	ABS BB	1.420				94.9304		
34	Se	SLB1'	8.71657200	1	1.422				94.7564		
34	Se	LB6	8.70650005	0.55 C	1.424				94.6469		
34	Se	SLB1''	8.68951740	1	1.427				94.4623		
75	Re	MZ2	8.66399956	0.01 C	1.431				94.1849		
58	Ce	MI	8.64249268	ABS BB	1.434				93.9511		
34	Se	LIII	8.63526954	ABS BB	1.436				93.8726		
75	Re	MZ1	8.62899971	0.01 C	1.437				93.8044		
36	Kr	Ln	8.62180042	1.75 C	1.438				93.7261		
96	Cm	NII	8.61008333	ABS BB	1.440				93.5988		
92	U	NI	8.60530261	ABS BB	1.441				93.5468		
92	U	N1-P4	8.59632960	1	1.442				93.4492		
68	Er	MB	8.59200001	45 C	1.443				93.4022		
68	Er	M4-N4	8.59031750	1	1.443				93.3839		
74	W	M4-N3	8.57299995	0.01 C	1.446				93.1956		
68	Er	SMB2	8.56566780	1	1.447				93.1159		
35	Br	LB17	8.55630016	0.01 C	1.449				93.0141		
33	As	LB9	8.54450035	0.03 C	1.451				92.8858		
34	Se	LG5	8.53279972	0.22 C	1.453				92.7586		
68	Er	MIV	8.53128741	ABS BB	1.453				92.7422		
34	Se	L2-N3	8.50349998	0.01 C	1.458				92.4401		
65	Tb	MG	8.48600006	1 C	1.461				92.2499		
69	Tm	MA1,2	8.47999954	200 C	1.462				92.1846		
70	Yb	M3-N1	8.47000027	0.5 C	1.464				92.0759		
69	Tm	MA1	8.46005490	100	1.465				91.9678		
69	Tm	MA2	8.46005490	100	1.465				91.9678		
69	Tm	MV	8.44758466	ABS BB	1.467				91.8323		

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
69	Tm	SMA	8.43400230	1	1.470				91.6846		
61	Pm	MII	8.42634226	BB	1.471				91.6013		
34	Se	LII	8.39894323	BB	1.476				91.3035		
35	Br	LA1	8.37709999	100 C	1.480				91.0660		
35	Br	LA2	8.37709999	11.4 C	1.480				91.0660		
63	Eu	MIII	8.37398352	BB	1.480				91.0322		
37	Rb	LI	8.36579990	4.41 C	1.482				90.9432		
76	Os	MZ2	8.35900021	0.01 C	1.483				90.8693		
35	Br	SLA3	8.34382050	1	1.486				90.7043		
13	Al	KA1,2	8.34329987	150 C	1.486				90.6986		
13	Al	KA2	8.34061410	50	1.486				90.6694		
13	Al	KA1	8.33820920	100	1.487				90.6433		
34	Se	LB3	8.32089996	4.7 C	1.490				90.4551		
34	Se	LB4	8.32089996	2.48 C	1.490				90.4551		
35	Br	SLA4	8.31476200	1	1.491				90.3884		
76	Os	MZ1	8.31000042	0.01 C	1.492				90.3366		
13	Al	SKA'	8.30474180	2	1.493				90.2794		
13	Al	SKA3	8.28670540	6	1.496				90.0834		
13	Al	SKA	8.27700043	0.01 C	1.498				89.9779		
13	Al	SKA4	8.27067310	6	1.499				89.9091		
93	Np	NI	8.26182448	BB	1.500				89.8129		
69	Tm	MB	8.24899960	45 C	1.503				89.6735		
13	Al	SKA8	8.24562260	1	1.503				89.6368		
75	Re	M4-N3	8.23900032	0.01 C	1.505				89.5648		
13	Al	SKA5	8.22858820	1	1.506				89.4516		
69	Tm	SMB2	8.21957010	1	1.508				89.3536		
13	Al	SKA7	8.21756600	1	1.508				89.3318		
13	Al	SKA6	8.20754580	1	1.510				89.2228		
59	Pr	MI	8.20550629	BB	1.511				89.2007		
69	Tm	MIV	8.18600291	BB	1.514				88.9887		
33	As	LG2	8.17819977	0.1 C	1.516				88.9038		
33	As	LG3	8.17819977	0.2 C	1.516				88.9038		
13	Al	SKA11	8.17047110	1	1.517				88.8198		
13	Al	SKA10	8.15443880	1	1.520				88.6455		
70	Yb	MA2	8.15443880	100	1.520				88.6455		
70	Yb	MA1,2	8.14900017	200 C	1.521				88.5864		
66	Dy	MG	8.14400005	1 C	1.522				88.5321		
70	Yb	MA1	8.13840640	100	1.523				88.4712		
70	Yb	SMA2	8.12738420	1	1.525				88.3514		
13	Al	SKA13	8.12638220	1	1.525				88.3405		

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
35	Br	LB1	8.12460041	48.97 C	1.526				88.3212		
33	As	LI	8.12218801	BB	1.526				88.2949		
70	Yb	MV	8.11527687	BB	1.527				88.2198	259.9265	
70	Yb	SMA^4	8.10804520	1	1.529				88.1412	259.6949	
35	Br	SLB1'	8.10333570	1	1.530				88.0900	259.5440	
13	Al	SKA14	8.10233370	1	1.530				88.0791	259.5119	
35	Br	SLB1''	8.08229330	1	1.534				87.8612	258.8701	
35	Br	LB6	8.07689953	0.56 C	1.535				87.8026	258.6973	
13	Al	SKB'	8.06626100	1	1.537				87.6870	258.3566	
77	Ir	MZ2	8.06499958	0.01 C	1.537				87.6732	258.3162	
62	Sm	MII	8.04732914	BB	1.540				87.4812	257.7502	
37	Rb	Ln	8.04030037	1.71 C	1.542				87.4047	257.5251	
64	Gd	MIII	8.03012953	BB	1.544				87.2942	257.1993	
77	Ir	MZ1	8.02099991	0.01 C	1.545				87.1949	256.9069	
35	Br	LIII	7.99956126	BB	1.550				86.9619	256.2202	
13	Al	SKBN	7.99110950	1	1.551				86.8700	255.9495	
13	Al	KB1	7.98330021	1.32 C	1.553				86.7851	255.6994	
13	Al	KB3	7.98330021	0.66 C	1.553				86.7851	255.6994	
36	Kr	LB17	7.97819996	0.01 C	1.554				86.7297	255.5360	
13	Al	KBX	7.95900000	1	1.557				86.5209	254.9211	
13	Al	SKBX	7.95603880	1	1.558				86.4888	254.8262	
94	Pu	NI	7.95490825	BB	1.558				86.4765	254.7900	
13	Al	K	7.94980764	BB	1.559				86.4210	254.6266	
13	Al	SKB^5	7.92798220	1	1.564				86.1838	253.9276	
34	Se	LB9	7.92210007	0.03 C	1.565				86.1198	253.7392	
70	Yb	MB	7.90899992	45 C	1.567				85.9774	253.3196	
13	Al	SKB^6	7.90593780	1	1.568				85.9441	253.2215	
70	Yb	SMB2	7.88730020	1	1.572				85.7415	252.6246	
72	Hf	M3-N1	7.88700008	0.5 C	1.572				85.7382	252.6150	
70	Yb	SMB3	7.88088730	1	1.573				85.6718	252.4192	
35	Br	LG5	7.87179995	0.22 C	1.575				85.5730	252.1281	
60	Nd	MI	7.87057703	BB	1.575				85.5597	252.0889	
70	Yb	MIV	7.86558396	BB	1.576				85.5054	251.9290	
67	Ho	MG	7.86499977	1 C	1.576				85.4991	251.9103	
13	Al	SKB^3	7.84882270	1	1.579				85.3232	251.3922	
35	Br	L2-N3	7.84189987	0.01 C	1.581				85.2480	251.1704	
71	Lu	MA1,2	7.84000015	200 C	1.581				85.2273	251.1096	
71	Lu	MA1	7.83980450	100	1.581				85.2252	251.1033	
71	Lu	MA2	7.83980450	100	1.581				85.2252	251.1033	
38	Sr	LI	7.83699989	4.31 C	1.582				85.1947	251.0135	

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
13	Al	SKB^3	7.83279030	1	1.583				85.1489	250.8787	
71	Lu	SMA^1	7.82938350	1	1.583				85.1119	250.7695	
71	Lu	SMA^2	7.81866190	1	1.585				84.9954	250.4261	
13	Al	SKB^4	7.81776000	1	1.586				84.9855	250.3973	
36	Kr	LA1	7.81720018	100 C	1.586				84.9795	250.3793	
36	Kr	LA2	7.81720018	11.4 C	1.586				84.9795	250.3793	
71	Lu	SMA^4	7.80944330	1	1.587				84.8951	250.1309	
71	Lu	MV	7.80517469	BB	1.588				84.8487	249.9942	
13	Al	SKB^4	7.80172770	1	1.589				84.8113	249.8838	
78	Pt	MZ2	7.78999996	1 C	1.591				84.6838	249.5081	
35	Br	LII	7.76849624	BB	1.596				84.4500	248.8194	
35	Br	LB3	7.76819992	4.63 C	1.596				84.4468	248.8099	
35	Br	LB4	7.76819992	2.5 C	1.596				84.4468	248.8099	
78	Pt	MZ1	7.73799992	2 C	1.602				84.1185	247.8426	
13	Al	SKB^7	7.71555400	1	1.607				83.8745	247.1237	
65	Tb	MIII	7.69473096	BB	1.611				83.6481	246.4567	
63	Eu	MII	7.68233472	BB	1.614				83.5134	246.0597	
13	Al	SKB^8	7.67346920	1	1.615				83.4170	245.7757	
95	Am	NI	7.66713252	BB	1.617				83.3481	245.5728	
77	Ir	M4-N3	7.64499998	0.01 C	1.621				83.1075	244.8639	
13	Al	SKB^9	7.63539240	1	1.623				83.0031	244.5562	
73	Ta	M3-N1	7.61199999	0.5 C	1.628				82.7488	243.8069	
71	Lu	MB	7.60099983	45 C	1.631				82.6292	243.4546	
68	Er	M3-N4	7.59999990	0.1 C	1.631				82.6183	243.4226	
71	Lu	SMB2	7.58499080	1	1.634				82.4552	242.9418	
36	Kr	LB1	7.57830000	48.79 C	1.636				82.3824	242.7275	
13	Al	SKB^10	7.57527120	1	1.636				82.3495	242.6305	
71	Lu	MIV	7.56284006	BB	1.639				82.2144	242.2324	
34	Se	LG2	7.55060005	0.15 C	1.642				82.0813	241.8403	
34	Se	LG3	7.55060005	0.29 C	1.642				82.0813	241.8403	
96	Cm	NI	7.54626902	BB	1.643				82.0342	241.7016	
72	Hf	MA2	7.54601220	100	1.643				82.0314	241.6934	
68	Er	MG	7.54600000	1 C	1.643				82.0313	241.6930	
72	Hf	MA1	7.53919850	100	1.644				81.9574	241.4751	
72	Hf	MA1,2	7.53900003	200 C	1.644				81.9552	241.4688	
72	Hf	SMA^1	7.52797590	1	1.647				81.8354	241.1157	
79	Au	MZ2	7.52299976	1 C	1.648				81.7813	240.9563	
72	Hf	SMA^2	7.51865710	1	1.649				81.7341	240.8172	
38	Sr	Ln	7.51859999	1.67 C	1.649				81.7334	240.8154	
36	Kr	LB6	7.50950003	0.58 C	1.651				81.6345	240.5239	

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
72	Hf	SMA^4	7.50482920	1	1.652				81.5837	240.3743	
34	Se	LI	7.49653546	BB	1.654				81.4936	240.1087	
79	Au	MZ1	7.46600008	2 C	1.660				81.1616	239.1306	
72	Hf	MV	7.46134681	BB	1.661				81.1110	238.9816	
37	Rb	LB17	7.45079994	0.01 C	1.664				80.9964	238.6438	
36	Kr	LIII	7.40254344	BB	1.675				80.4718	237.0982	
66	Dy	MIII	7.39945094	BB	1.675				80.4382	236.9991	
78	Pt	M4-N3	7.37099981	0.01 C	1.682				80.1289	236.0878	
35	Br	LB9	7.36670017	0.03 C	1.683				80.0822	235.9501	
74	W	M3-N1	7.36000013	0.5 C	1.684				80.0093	235.7355	
39	Y	LI	7.35790014	4.28 C	1.685				79.9865	235.6683	
64	Gd	MII	7.34378961	BB	1.688				79.8331	235.2163	
37	Rb	LA2	7.32749987	11.34 C	1.692				79.6560	234.6946	
37	Rb	LA1	7.31879997	100 C	1.694				79.5614	234.4159	
36	Kr	LB4	7.30590010	2.49 C	1.697				79.4212	234.0027	
72	Hf	MB	7.30299997	45 C	1.697				79.3897	233.9099	
73	Ta	M5-O3	7.30000019	0.01 C	1.698				79.3571	233.8138	
72	Hf	SMB1	7.29751130	1	1.699				79.3300	233.7341	
37	Rb	SLA3	7.29550720	1	1.699				79.3082	233.6699	
73	Ta	M4-O3	7.29470560	1	1.699				79.2995	233.6442	
37	Rb	SLA4	7.28879370	1	1.701				79.2352	233.4548	
72	Hf	SMB2	7.28578760	1	1.701				79.2026	233.3586	
36	Kr	LG5	7.28020000	0.23 C	1.703				79.1418	233.1796	
37	Rb	SLA5	7.27767130	1	1.703				79.1143	233.0986	
72	Hf	SMB3	7.27155890	1	1.705				79.0479	232.9028	
36	Kr	LB3	7.26739979	4.65 C	1.706				79.0027	232.7696	
37	Rb	SLA6	7.26664900	1	1.706				78.9945	232.7456	
73	Ta	MA2	7.25863290	100	1.708				78.9074	232.4888	
37	Rb	SLA7	7.25602760	1	1.708				78.8791	232.4054	
73	Ta	MA1,2	7.25199986	200 C	1.709				78.8353	232.2764	
73	Ta	MA1	7.25161870	100	1.709				78.8311	232.2642	
36	Kr	L2-N3	7.25040007	0.01 C	1.710				78.8179	232.2251	
73	Ta	SMA^1	7.23939410	1	1.712				78.6982	231.8726	
73	Ta	SMA^2	7.22937390	1	1.715				78.5893	231.5517	
72	Hf	MIV	7.22356094	BB	1.716				78.5261	231.3655	
73	Ta	SMA^4	7.21434360	1	1.718				78.4259	231.0703	
62	Sm	MI	7.19672626	BB	1.722				78.2344	230.5060	
36	Kr	LII	7.17839277	BB	1.727				78.0351	229.9188	
73	Ta	MV	7.14570918	BB	1.735				77.6798	228.8719	
14	Si	KA2	7.12939978	50.33 C	1.739				77.5025	228.3496	

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
14	Si	KA1,2	7.12669992	150.33 C	1.739				77.4732	228.2631	
14	Si	KA1	7.12540007	100 C	1.740				77.4590	228.2215	
67	Ho	MIII	7.12067540	BB	1.741				77.4077	228.0701	
79	Au	M4-N3	7.10099983	0.01 C	1.746				77.1938	227.4399	
14	Si	SKA"	7.10011330	1	1.746				77.1841	227.4115	
14	Si	SKA'	7.09430160	1	1.747				77.1210	227.2254	
73	Ta	M4-O2	7.09000015	0.01 C	1.748				77.0742	227.0876	
14	Si	SKA	7.08139992	0.01 C	1.751				76.9807	226.8122	
14	Si	SKA3	7.07676630	5	1.752				76.9303	226.6638	
37	Rb	LB1	7.07649994	48.87 C	1.752				76.9274	226.6552	
14	Si	SKA3'	7.07305880	1	1.753				76.8900	226.5450	
14	Si	SKA4'	7.06824910	1	1.754				76.8377	226.3910	
14	Si	SKA4	7.06654560	5	1.754				76.8192	226.3364	
39	Y	Ln	7.04040003	1.62 C	1.761				76.5350	225.4990	
81	Tl	MZ2	7.03200006	1 C	1.763				76.4437	225.2299	
14	Si	SKA5	7.02957110	1	1.763				76.4173	225.1521	
14	Si	SKA7	7.02536260	1	1.764				76.3715	225.0173	
70	Yb	MG	7.02400017	1 C	1.765				76.3567	224.9737	
73	Ta	MB	7.02299976	45 C	1.765				76.3458	224.9417	
14	Si	SKA6	7.01995170	1	1.766				76.3127	224.8440	
65	Tb	MII	7.01392770	BB	1.767				76.2472	224.6511	
73	Ta	SMB1	7.01373920	1	1.767				76.2452	224.6450	
74	W	M5-O3	7.00500011	0.01 C	1.770				76.1502	224.3651	
73	Ta	SMB2	6.99890930	1	1.771				76.0840	224.1701	
35	Br	LG2	6.99270010	0.21 C	1.773				76.0165	223.9712	
35	Br	LG3	6.99270010	0.39 C	1.773				76.0165	223.9712	
74	W	MA2	6.99200010	100 C	1.773				76.0089	223.9488	
73	Ta	SMB3	6.98989110	1	1.773				75.9859	223.8812	
37	Rb	LB6	6.98479986	0.61 C	1.775				75.9306	223.7181	
74	W	MA1	6.98299980	100 C	1.775				75.9110	223.6605	
38	Sr	LB17	6.98089981	0.01 C	1.776				75.8882	223.5932	
81	Tl	MZ1	6.97399998	2 C	1.777				75.8132	223.3722	
74	W	SMA^1	6.97025150	1	1.778				75.7724	223.2522	
74	W	SMA^2	6.96093270	1	1.781				75.6711	222.9537	
35	Br	LI	6.95764310	BB	1.782				75.6354	222.8483	
74	W	SMA^4	6.94700470	1	1.784				75.5197	222.5076	
40	Zr	LI	6.91860008	4.21 C	1.792				75.2109	221.5978	
73	Ta	MIV	6.91418693	BB	1.793				75.1630	221.4565	
76	Os	M3-N1	6.88999987	0.5 C	1.799				74.9000	220.6818	
63	Eu	MI	6.88806667	BB	1.800				74.8790	220.6198	

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
38	Sr	LA2	6.87260008	11.34 C	1.804				74.7109	220.1245	
37	Rb	LIII	6.87127023	BB	1.804				74.6964	220.0819	
36	Kr	LB9	6.86880016	0.04 C	1.805				74.6696	220.0028	
37	Rb	LB7	6.86880016	0.02 C	1.805				74.6696	220.0028	
38	Sr	LA1	6.86499977	100 C	1.806				74.6283	219.8810	
74	W	MV	6.85304002	BB	1.809				74.4982	219.4980	
68	Er	MIII	6.84320565	BB	1.811				74.3913	219.1830	
38	Sr	SLA3	6.84109110	1	1.812				74.3683	219.1152	
14	Si	SKB4	6.83778450	1	1.813				74.3324	219.0093	
38	Sr	SLA4	6.83517920	1	1.814				74.3041	218.9259	
38	Sr	SLA5	6.82806490	1	1.815				74.2267	218.6980	
37	Rb	LB4	6.82340002	2.57 C	1.817				74.1760	218.5486	
14	Si	SKB'	6.81574000	1	1.819				74.0928	218.3033	
38	Sr	SLA6	6.81443740	1	1.819				74.0786	218.2616	
38	Sr	SLA7	6.80682210	1	1.821				73.9958	218.0176	
74	W	M4-O2	6.80600023	0.01 C	1.821				73.9869	217.9913	
82	Pb	MZ2	6.80200005	0.1 C	1.822				73.9434	217.8632	
37	Rb	LB3	6.78980017	4.71 C	1.826				73.8108	217.4724	
14	Si	KB1	6.77860022	2.78 C	1.829				73.6890	217.1137	
14	Si	KB3	6.77860022	1.39 C	1.829				73.6890	217.1137	
71	Lu	MG	6.76800013	1 C	1.832				73.5738	216.7742	
14	Si	KBX	6.75800000	2	1.834				73.4651	216.4539	
74	W	MB	6.75699997	45 C	1.835				73.4542	216.4219	
37	Rb	LG5	6.75649977	0.24 C	1.835				73.4488	216.4058	
14	Si	SKBX	6.75261280	1	1.836				73.4065	216.2814	
74	W	SMB1	6.74800350	1	1.837				73.3564	216.1337	
14	Si	K	6.74235684	BB	1.839				73.2950	215.9529	
82	Pb	MZ1	6.73999977	1 C	1.839				73.2694	215.8774	
74	W	SMB2	6.73237200	1	1.841				73.1865	215.6331	
66	Dy	MII	6.73174069	BB	1.841				73.1796	215.6128	
75	Re	MA1,2	6.72900009	200 C	1.842				73.1498	215.5251	
75	Re	MA1	6.72856430	100	1.842				73.1451	215.5111	
75	Re	MA2	6.72856430	100	1.842				73.1451	215.5111	
37	Rb	L2-N3	6.72709990	0.01 C	1.843				73.1292	215.4642	
74	W	SMB3	6.72074850	1	1.844				73.0601	215.2608	
77	Ir	M3-N1	6.66900015	0.5 C	1.859				72.4976	213.6033	
37	Rb	LG8	6.66559982	0.01 C	1.860				72.4606	213.4944	
37	Rb	LII	6.65192339	BB	1.864				72.3119	213.0563	
38	Sr	LB1	6.62650013	47.47 C	1.871				72.0356	212.2421	
74	W	MIV	6.62455653	BB	1.871				72.0144	212.1798	

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
40	Zr	Ln	6.60879993	1.53 C	1.876				71.8431	211.6751	
38	Sr	SLB1'	6.60431380	1	1.877				71.7944	211.5314	
64	Gd	MI	6.59215228	BB	1.880				71.6622	211.1419	
38	Sr	SLB1"	6.58747990	1	1.882				71.6114	210.9923	
83	Bi	MZ2	6.58500004	0.1 C	1.882				71.5844	210.9128	
75	Re	MV	6.58480004	BB	1.883				71.5822	210.9064	
69	Tm	MIII	6.57920934	BB	1.884				71.5215	210.7274	
39	Y	LB17	6.54939985	0.01 C	1.893				71.1974	209.7726	
72	Hf	MG	6.54400015	1 C	1.894				71.1387	209.5996	
38	Sr	LB6	6.52190018	0.64 C	1.901				70.8985	208.8918	
83	Bi	MZ1	6.52099991	1 C	1.901				70.8887	208.8630	
41	Nb	LI	6.51849985	4.17 C	1.902				70.8615	208.7829	
75	Re	MB	6.50400019	45 C	1.906				70.7039	208.3185	
36	Kr	LG2	6.49459982	0.27 C	1.909				70.6017	208.0174	
36	Kr	LG3	6.49459982	0.5 C	1.909				70.6017	208.0174	
76	Os	MA1	6.49008350	100	1.910				70.5526	207.8727	
76	Os	MA2	6.49008350	100	1.910				70.5526	207.8727	
76	Os	MA1,2	6.48999977	200 C	1.910				70.5517	207.8700	
76	Os	SMA^2	6.47204720	1	1.915				70.3565	207.2950	
39	Y	LA2	6.45730019	11.38 C	1.920				70.1962	206.8227	
78	Pt	M3-N1	6.45499992	1 C	1.920				70.1712	206.7490	
36	Kr	LI	6.45420094	BB	1.921				70.1625	206.7234	
76	Os	SMA^4	6.45300880	1	1.921				70.1496	206.6853	
39	Y	LA1	6.45060015	100 C	1.922				70.1234	206.6081	
67	Ho	MII	6.44815893	BB	1.922				70.0968	206.5299	
39	Y	SLA3	6.42916070	1	1.928				69.8903	205.9214	
39	Y	SLA4	6.42374980	1	1.930				69.8315	205.7481	
39	Y	SLA5	6.41833890	1	1.931				69.7727	205.5748	
37	Rb	LB9	6.41720009	0.04 C	1.932				69.7603	205.5383	
39	Y	SLA6	6.40711630	1	1.935				69.6507	205.2153	
38	Sr	LB4	6.40399981	2.63 C	1.936				69.6168	205.1155	
39	Y	SLA7	6.39930050	1	1.937				69.5657	204.9650	
38	Sr	LB7	6.39410019	0.08 C	1.939				69.5092	204.7985	
38	Sr	LIII	6.39230769	BB	1.939				69.4897	204.7410	
82	Pb	M4-N3	6.38399982	0.01 C	1.942				69.3994	204.4749	
38	Sr	LB3	6.36780024	4.7 C	1.947				69.2233	203.9561	
75	Re	MIV	6.36180409	BB	1.949				69.1581	203.7640	
70	Yb	MIII	6.35886758	BB	1.949				69.1262	203.6700	
73	Ta	M3-N4	6.35300016	0.01 C	1.951				69.0624	203.4820	
76	Os	MV	6.32545278	BB	1.960				68.7629	202.5997	

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
73	Ta	MG	6.31199980	1 C	1.964				68.6167	202.1688	
65	Tb	MI	6.30166201	BB	1.967				68.5043	201.8377	
38	Sr	LG5	6.29670000	0.25 C	1.969				68.4504	201.6788	
74	W	M2-N1	6.28000021	0.01 C	1.974				68.2688	201.1439	
77	Ir	MA2	6.27500010	100 C	1.975				68.2145	200.9838	
76	Os	MB	6.26700020	45 C	1.978				68.1275	200.7275	
77	Ir	MA1	6.26200008	100 C	1.980				68.0731	200.5674	
38	Sr	L2-N3	6.26170015	0.01 C	1.980				68.0699	200.5578	
79	Au	M3-N1	6.25899982	1 C	1.981				68.0405	200.4713	
77	Ir	SMA^1	6.24899750	1	1.984				67.9318	200.1509	
76	Os	SMB2	6.24559070	1	1.985				67.8948	200.0418	
77	Ir	SMA^2	6.24178300	1	1.986				67.8534	199.9198	
77	Ir	SMA^4	6.22785490	1	1.990				67.7020	199.4737	
39	Y	LB1	6.21460009	48.91 C	1.995				67.5579	199.0492	
41	Nb	Ln	6.21150017	1.29 C	1.996				67.5242	198.9499	
38	Sr	LG8	6.19290018	0.03 C	2.002				67.3220	198.3542	
68	Er	MII	6.18133413	BB	2.005				67.1962	197.9837	
38	Sr	LII	6.17825394	BB	2.006				67.1628	197.8850	
15	P	KA2	6.16209984	50.72 C	2.012				66.9871	197.3676	
83	Bi	M4-N3	6.16200018	0.01 C	2.012				66.9861	197.3645	
15	P	KA1,2	6.15999985	150.72 C	2.012				66.9643	197.3004	
15	P	KA1	6.15899992	100 C	2.013				66.9534	197.2684	
40	Zr	LB17	6.15600014	0.01 C	2.014				66.9208	197.1723	
42	Mo	LI	6.15290022	4.15 C	2.015				66.8871	197.0730	
15	P	SKA"	6.13937650	1	2.019				66.7401	196.6398	
74	W	M3-N4	6.13399982	0.1 C	2.021				66.6817	196.4676	
15	P	SKA'	6.13095960	1	2.022				66.6486	196.3702	
71	Lu	MIII	6.12696185	BB	2.023				66.6052	196.2422	
15	P	SKA3	6.11663070	3	2.027				66.4929	195.9113	
15	P	SKA3'	6.11282300	1	2.028				66.4515	195.7893	
15	P	SKA4	6.10881490	3	2.029				66.4079	195.6610	
76	Os	MIV	6.10523931	BB	2.030				66.3690	195.5464	
39	Y	LB6	6.09539986	0.66 C	2.034				66.2621	195.2313	
74	W	MG	6.09200001	1 C	2.035				66.2251	195.1224	
80	Hg	M3-N1	6.09000015	1 C	2.035				66.2034	195.0583	
40	Zr	LA2	6.07749987	11.34 C	2.040				66.0675	194.6580	
77	Ir	MV	6.07651441	BB	2.040				66.0568	194.6264	
15	P	SKA5	6.07524730	1	2.040				66.0430	194.5858	
40	Zr	LA1	6.07159996	100 C	2.042				66.0033	194.4690	
15	P	SKA6	6.06322300	1	2.044				65.9123	194.2007	

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
78	Pt	MA2	6.05800009	100 C	2.046				65.8555	194.0334	
66	Dy	MI	6.05751417	BB	2.046				65.8502	194.0178	
40	Zr	SLA3	6.05069780	1	2.049				65.7761	193.7995	
37	Rb	LG2	6.04790020	0.32 C	2.050				65.7457	193.7099	
37	Rb	LG3	6.04790020	0.58 C	2.050				65.7457	193.7099	
78	Pt	MA1	6.04699993	100 C	2.050				65.7359	193.6811	
40	Zr	SLA4	6.04468570	1	2.051				65.7108	193.6070	
40	Zr	SLA5	6.03867350	1	2.053				65.6454	193.4144	
77	Ir	MB	6.03800011	45 C	2.053				65.6381	193.3928	
78	Pt	SMA^1	6.03576770	1	2.054				65.6138	193.3213	
77	Ir	SMB1	6.03005620	1	2.056				65.5517	193.1384	
39	Y	LG11	6.02860022	0.01 C	2.056				65.5359	193.0917	
40	Zr	SLA6	6.02805210	1	2.056				65.5299	193.0742	
78	Pt	SMA^2	6.02344280	1	2.058				65.4798	192.9266	
40	Zr	SLA7	6.02053700	1	2.059				65.4482	192.8335	
77	Ir	SMB2	6.01853290	1	2.060				65.4265	192.7693	
39	Y	LB4	6.01849985	2.86 C	2.060				65.4261	192.7682	
78	Pt	SMA^4	6.00710990	1	2.064				65.3023	192.4034	
38	Sr	LB9	6.00680017	0.04 C	2.064				65.2989	192.3935	
37	Rb	LI	6.00383517	BB	2.065				65.2667	192.2985	
77	Ir	SMB3	6.00350260	1	2.065				65.2631	192.2879	
78	Pt	M5-O3	5.98699999	0.01 C	2.070				65.0837	191.7593	
39	Y	LB3	5.98360014	5.06 C	2.072				65.0467	191.6504	
39	Y	LB2	5.97499990	0.74 C	2.075				64.9532	191.3750	
39	Y	LB7	5.96640015	0.09 C	2.078				64.8597	191.0995	
39	Y	LIII	5.96082692	BB	2.080				64.7991	190.9210	
69	Tm	MII	5.93287396	BB	2.089				64.4953	190.0257	
75	Re	M3-N4	5.93100023	0.01 C	2.090				64.4749	189.9657	
75	Re	MG	5.88500023	1 C	2.106				63.9748	188.4923	
81	Tl	M3-N1	5.88399982	1 C	2.107				63.9640	188.4603	
72	Hf	MIII	5.88276713	BB	2.107				63.9506	188.4208	
39	Y	LG5	5.87589979	0.25 C	2.110				63.8759	188.2009	
77	Ir	MIV	5.85913709	BB	2.116				63.6937	187.6640	
15	P	SKB4	5.85580490	1	2.117				63.6575	187.5572	
79	Au	MA2	5.85400009	100 C	2.118				63.6378	187.4994	
42	Mo	Ln	5.84819984	1.28 C	2.120				63.5748	187.3137	
78	Pt	MV	5.84394796	BB	2.121				63.5286	187.1775	
79	Au	MA1	5.84000015	100 C	2.123				63.4857	187.0510	
15	P	SKB'	5.83766830	1	2.123				63.4603	186.9763	
39	Y	L2-N3	5.83720016	0.01 C	2.124				63.4552	186.9613	

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
40	Zr	LB1	5.83720016	47.39 C	2.124				63.4552	186.9613	
73	Ta	M3-O1	5.82999992	0.01 C	2.126				63.3769	186.7307	
79	Au	SMA^1	5.82814910	1	2.127				63.3568	186.6714	
78	Pt	MB	5.82800007	45 C	2.127				63.3552	186.6667	
67	Ho	MI	5.82555091	BB	2.128				63.3286	186.5882	
40	Zr	SLB1'	5.81973220	1	2.130				63.2653	186.4019	
78	Pt	SMB1	5.81873010	1	2.130				63.2544	186.3698	
43	Tc	LI	5.81799984	4.12 C	2.131				63.2465	186.3464	
79	Au	SMA^2	5.81722710	1	2.131				63.2381	186.3216	
79	Au	SMA^3	5.81311880	1	2.132				63.1934	186.1900	
76	Os	M2-N1	5.80999994	0.01 C	2.134				63.1595	186.0901	
78	Pt	SMB2	5.80680610	1	2.135				63.1248	185.9878	
40	Zr	SLB1"	5.80580410	1	2.135				63.1139	185.9557	
15	P	KB1	5.80439997	4.45 C	2.136				63.0987	185.9108	
15	P	KB3	5.80439997	2.25 C	2.136				63.0987	185.9108	
79	Au	SMA^4	5.80390020	1	2.136				63.0932	185.8948	
15	P	SKB1X	5.79989220	1	2.137				63.0496	185.7664	
78	Pt	SMB3	5.79698630	1	2.138				63.0181	185.6733	
15	P	SKBX	5.79127480	1	2.140				62.9560	185.4904	
41	Nb	LB17	5.78539991	0.01 C	2.143				62.8921	185.3022	
39	Y	LG1	5.78270006	0.33 C	2.144				62.8628	185.2157	
39	Y	LG8	5.78270006	0.03 C	2.144				62.8628	185.2157	
15	P	K	5.77884875	BB	2.145				62.8209	185.0924	
79	Au	M5-O3	5.76700020	0.01 C	2.149				62.6921	184.7129	
39	Y	LII	5.75203897	BB	2.155				62.5294	184.2337	
41	Nb	LA2	5.73190022	11.36 C	2.163				62.3105	183.5887	
41	Nb	LA1	5.72399998	100 C	2.166				62.2246	183.3356	
76	Os	M3-N4	5.72399998	0.1 C	2.166				62.2246	183.3356	
15	P	SKB"	5.71151400	1	2.170				62.0889	182.9357	
40	Zr	LB6	5.71080017	0.68 C	2.171				62.0811	182.9128	
41	Nb	SLA3	5.70690470	1	2.172				62.0388	182.7881	
70	Yb	MII	5.70571560	BB	2.173				62.0259	182.7500	
82	Pb	M3-N1	5.70400000	1 C	2.173				62.0072	182.6950	
41	Nb	SLA4	5.70109300	1	2.174				61.9756	182.6019	
41	Nb	SLA5	5.69608290	1	2.176				61.9212	182.4415	
15	P	SKB'"	5.69047160	1	2.178				61.8602	182.2617	
41	Nb	SLA6	5.68355760	1	2.181				61.7850	182.0403	
76	Os	MG	5.68200016	1 C	2.182				61.7681	181.9904	
41	Nb	SLA7	5.67844730	1	2.183				61.7294	181.8766	
41	Nb	SLA8	5.67243520	1	2.185				61.6641	181.6840	

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
73	Ta	M3-O5	5.67143320	1	2.186				61.6532	181.6519	
73	Ta	M3-O4	5.67000008	0.01 C	2.186				61.6376	181.6060	
40	Zr	LB4	5.66900015	2.99 C	2.187				61.6267	181.5740	
80	Hg	MA2	5.66642310	100	2.188				61.5987	181.4915	
73	Ta	MIII	5.65110301	BB	2.194				61.4322	181.0008	
80	Hg	MA1	5.64760017	100 C	2.195				61.3941	180.8886	
38	Sr	LG2	5.64580011	0.36 C	2.196				61.3745	180.8309	
38	Sr	LG3	5.64580011	0.65 C	2.196				61.3745	180.8309	
39	Y	LB9	5.63810015	0.05 C	2.199				61.2908	180.5843	
40	Zr	LB3	5.63290024	5.22 C	2.201				61.2343	180.4178	
78	Pt	MIV	5.63082792	BB	2.201				61.2118	180.3514	
74	W	M3-O1	5.62799978	0.01 C	2.203				61.1810	180.2608	
79	Au	MB	5.62400007	50 C	2.204				61.1376	180.1327	
79	Au	MV	5.62112708	BB	2.205				61.1063	180.0407	
68	Er	MI	5.61908906	BB	2.206				61.0842	179.9754	
79	Au	SMB1	5.61431810	1	2.208				61.0323	179.8226	
79	Au	SMB2	5.60419770	1	2.212				60.9223	179.4984	
38	Sr	LI	5.59424266	BB	2.216				60.8141	179.1796	
79	Au	SMB3	5.59197300	1	2.217				60.7894	179.1069	
40	Zr	LB2	5.58720016	1.77 C	2.219				60.7375	178.9540	
40	Zr	LB7	5.57969999	0.09 C	2.222				60.6560	178.7138	
40	Zr	LIII	5.57913873	BB	2.222				60.6499	178.6958	
40	Zr	LG11	5.57429981	0.01 C	2.224				60.5973	178.5408	
73	Ta	M2-N4	5.57000017	0.2 C	2.225				60.5505	178.4031	
77	Ir	M3-N4	5.53999996	0.1 C	2.238				60.2244	177.4422	
83	Bi	M3-N1	5.53700018	1 C	2.239				60.1918	177.3462	
40	Zr	SLB2^1	5.53135080	1	2.241				60.1304	177.1652	
40	Zr	SLB2^B	5.52533870	1	2.243				60.0650	176.9726	
40	Zr	SLB2^2	5.51591970	1	2.247					176.6710	
43	Tc	Ln	5.51270008	1.27 C	2.249					176.5678	
44	Ru	LI	5.50540018	4.11 C	2.252					176.3340	
77	Ir	MG	5.50000000	1 C	2.254					176.1611	
40	Zr	LG5	5.49809980	0.25 C	2.255					176.1002	
41	Nb	LB1	5.49319983	40.65 C	2.257					175.9433	
71	Lu	MII	5.47758781	BB	2.263					175.4432	
41	Nb	SLB1'	5.47674070	1	2.263					175.4161	
81	Tl	MA2	5.47200012	100 C	2.265					175.2642	
41	Nb	SLB1''	5.46251200	1	2.269					174.9603	
81	Tl	MA1	5.46000004	100 C	2.270					174.8799	
40	Zr	L2-N3	5.45690012	0.01 C	2.272					174.7806	

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
74	W	M3-O5	5.44898480	1	2.275					174.5271	
42	Mo	LB17	5.44729996	0.01 C	2.276					174.4731	
81	Tl	SMA^1	5.44287240	1	2.277					174.3313	
74	W	MIII	5.43556335	BB	2.281					174.0972	
81	Tl	SMA^2	5.43465590	1	2.281					174.0681	
80	Hg	MB	5.43179989	50 C	2.282					173.9767	
81	Tl	SMA^3	5.42834310	1	2.284					173.8659	
81	Tl	SMA^4	5.41922480	1	2.287					173.5739	
42	Mo	LA2	5.41639996	11.33 C	2.289					173.4834	
79	Au	MIV	5.41160141	BB	2.291					173.3297	
42	Mo	LA1	5.40689993	100 C	2.293					173.1791	
80	Hg	MV	5.40264064	BB	2.294					173.0427	
73	Ta	M1-N3	5.40000010	0.5 C	2.296					172.9581	
42	Mo	SLA2'	5.39968540	1	2.296					172.9481	
42	Mo	SLA3	5.39417430	1	2.298					172.7715	
42	Mo	SLA4	5.39086760	1	2.299					172.6656	
40	Zr	LG1	5.38579988	0.75 C	2.302					172.5033	
40	Zr	LG8	5.38579988	0.03 C	2.302					172.5033	
42	Mo	SLA5	5.38565710	1	2.302					172.4987	
42	Mo	SLA6	5.38194960	1	2.303					172.3800	
16	S	KA2	5.37650013	50.53 C	2.306					172.2054	
40	Zr	LII	5.37500325	BB	2.306					172.1575	
16	S	KA1,2	5.37489986	150.53 C	2.306					172.1542	
69	Tm	MI	5.37477024	BB	2.306					172.1500	
16	S	KA1	5.37410021	100 C	2.307					172.1286	
42	Mo	SLA7	5.37373310	1	2.307					172.1168	
16	S	SKA"	5.37022600	1	2.308					172.0045	
41	Nb	LB6	5.36250019	0.69 C	2.312					171.7570	
74	W	M2-N4	5.35699987	0.1 C	2.314					171.5809	
78	Pt	M3-N4	5.35699987	1 C	2.314					171.5809	
42	Mo	SLA8	5.35439410	1	2.315					171.4974	
16	S	SKA'	5.35329190	1	2.316					171.4621	
42	Mo	SLA9	5.34737990	1	2.318					171.2727	
41	Nb	LB4	5.34630013	3.73 C	2.319					171.2382	
16	S	SKA3"	5.34387290	1	2.320					171.1604	
16	S	SKA3	5.34076660	3	2.321					171.0609	
90	Th	MZ2	5.34000015	0.1 C	2.321					171.0364	
16	S	SKA3'	5.33886280	1	2.322					171.0000	
42	Mo	SLA10	5.33475450	1	2.324					170.8684	
16	S	SKA4	5.33415330	3	2.324					170.8491	

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
78	Pt	MG	5.31899977	3 C	2.331					170.3638	
41	Nb	LB3	5.31199980	6.43 C	2.334					170.1395	
16	S	SKA5	5.30769990	1	2.335					170.0018	
40	Zr	LB9	5.30149984	0.06 C	2.338					169.8032	
82	Pb	MA2	5.29899979	100 C	2.339					169.7232	
16	S	SKA6	5.29667770	1	2.340					169.6488	
82	Pb	MA1	5.28599977	100 C	2.345					169.3068	
39	Y	LG2	5.28480005	0.42 C	2.346					169.2684	
39	Y	LG3	5.28480005	0.75 C	2.346					169.2684	
82	Pb	SMA^1	5.27323050	1	2.351					168.8978	
82	Pb	SMA^2	5.26431250	1	2.355					168.6122	
82	Pb	SMA^3	5.25920220	1	2.357					168.4485	
82	Pb	SMA^4	5.25058480	1	2.361					168.1725	
81	Tl	MB	5.24900007	55 C	2.362					168.1217	
90	Th	MZ1	5.24499989	1 C	2.363					167.9936	
72	Hf	MII	ABS	5.24161664	BB	2.365				167.8852	
81	Tl	SMB1		5.23996340	1	2.366				167.8323	
41	Nb	LB2		5.23789978	3.3 C	2.367				167.7662	
75	Re	MIII	ABS	5.23740971	BB	2.367				167.7505	
41	Nb	LB7		5.23129988	0.04 C	2.370				167.5548	
41	Nb	LIII	ABS	5.23033959	BB	2.370				167.5240	
81	Tl	SMB2		5.23024380	1	2.370				167.5210	
39	Y	LI	ABS	5.22593045	BB	2.372				167.3828	
81	Tl	SMB3		5.22042400	1	2.375				167.2064	
45	Rh	LI		5.21810007	4.11 C	2.376				167.1320	
44	Ru	Ln		5.20489979	1.26 C	2.382				166.7092	
80	Hg	MIV	ABS	5.19875886	BB	2.384				166.5125	
81	Tl	M4-O2		5.19600010	0.1 C	2.386				166.4242	
91	Pa	MZ2		5.19299984	0.1 C	2.387				166.3281	
81	Tl	MV	ABS	5.18918512	BB	2.389				166.2059	
79	Au	M3-N4		5.18599987	1 C	2.390				166.1039	
42	Mo	LB1		5.17880011	40.92 C	2.394				165.8733	
74	W	M1-N3		5.17199993	0.5 C	2.397				165.6555	
41	Nb	SLB2^1		5.17142520	1	2.397				165.6370	
70	Yb	MI	ABS	5.17014303	BB	2.398				165.5960	
41	Nb	LG11		5.16979980	0.01 C	2.398				165.5850	
82	Pb	M5-O3		5.16800022	0.01 C	2.399				165.5273	
42	Mo	SLB1'		5.16391010	1	2.401				165.3963	
41	Nb	LG5		5.15299988	0.22 C	2.406				165.0469	
42	Mo	SLB1''		5.15028260	1	2.407				164.9599	

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
79	Au	MG	5.14499998	3 C	2.409					164.7907	
42	Mo	SLB1'''	5.14286770	1	2.410					164.7224	
43	Tc	LB17	5.13590002	0.01 C	2.414					164.4992	
42	Mo	SLB1^4	5.13555290	1	2.414					164.4881	
83	Bi	MA2	5.13000011	100 C	2.416					164.3102	
43	Tc	LA2	5.12529993	11.35 C	2.419					164.1597	
83	Bi	MA1	5.11800003	100 C	2.422					163.9259	
43	Tc	LA1	5.11469984	100 C	2.424					163.8202	
41	Nb	L2-N3	5.11259985	0.01 C	2.425					163.7529	
83	Bi	SMA^1	5.10639410	1	2.428					163.5541	
83	Bi	SMA^2	5.09807740	1	2.432					163.2878	
83	Bi	SMA^3	5.09236580	1	2.434					163.1048	
91	Pa	MZ1	5.09200001	1 C	2.434					163.0931	
83	Bi	SMA^4	5.08264620	1	2.439					162.7935	
82	Pb	MB	5.07600021	60 C	2.442					162.5807	
82	Pb	SMB1	5.06661390	1	2.447					162.2800	
82	Pb	SMB2	5.05569190	1	2.452					161.9302	
16	S	SKB1X	5.05298650	1	2.453					161.8435	
42	Mo	LB4	5.05009985	3.67 C	2.455					161.7511	
42	Mo	LB6	5.05009985	0.71 C	2.455					161.7511	
92	U	MZ2	5.05000019	0.1 C	2.455					161.7479	
82	Pb	SMB3	5.04627290	1	2.456					161.6285	
76	Os	MIII	5.04579196	BB	2.457					161.6131	
41	Nb	LG8	5.04190016	0.01 C	2.459					161.4885	
41	Nb	LG1	5.03779984	1.22 C	2.461					161.3571	
16	S	KB1	5.03170013	6.18 C	2.464					161.1618	
16	S	KB3	5.03170013	3.11 C	2.464					161.1618	
41	Nb	LII	5.03043778	BB	2.464					161.1213	
16	S	SKBX	5.02332670	1	2.468					160.8936	
73	Ta	MII	5.02228703	BB	2.468					160.8603	
16	S	K	5.01558252	BB	2.471					160.6455	
42	Mo	LB3	5.01340008	6.3 C	2.473					160.5756	
82	Pb	M4-O2	5.00400019	1 C	2.477					160.2745	
41	Nb	LB9	4.99399996	0.07 C	2.482					159.9542	
82	Pb	MV	4.99135266	BB	2.483					159.8695	
81	Tl	MIV	4.98914329	BB	2.485					159.7987	
80	Hg	MG	4.98400021	3 C	2.487					159.6340	
41	Nb	SLG1'	4.97803540	1	2.490					159.4429	
71	Lu	MI	4.97692678	BB	2.491					159.4074	
16	S	SKB'''	4.96100100	1	2.499					158.8973	

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
40	Zr	LG2	4.95529985	0.46 C	2.502					158.7147	
40	Zr	LG3	4.95529985	0.82 C	2.502					158.7147	
76	Os	M2-N4	4.95499992	0.2 C	2.502					158.7051	
46	Pd	LI	4.95330000	4.12 C	2.503					158.6507	
16	S	SKB^4	4.94717310	1	2.506					158.4544	
92	U	MZ1	4.94600010	1 C	2.506					158.4168	
42	Mo	LB2	4.92379999	4.51 C	2.518					157.7058	
42	Mo	LB7	4.92180014	0.04 C	2.519					157.6417	
45	Rh	Ln	4.92180014	1.26 C	2.519					157.6417	
42	Mo	LIII	4.91965717	BB	2.520					157.5731	
90	Th	M4-N3	4.91099977	0.01 C	2.524					157.2958	
83	Bi	MB	4.90899992	60 C	2.525					157.2318	
40	Zr	SLG2'	4.90588990	1	2.527					157.1321	
83	Bi	SMB1	4.89997800	1	2.530					156.9428	
40	Zr	LI	4.89750356	BB	2.531					156.8635	
83	Bi	SMB2	4.88935660	1	2.535					156.6026	
43	Tc	LB1	4.88880014	41.19 C	2.536					156.5848	
83	Bi	SMB3	4.87853480	1	2.541					156.2560	
78	Pt	M3-O1	4.87599993	0.01 C	2.542					156.1748	
42	Mo	SLB2^1	4.87472710	1	2.543					156.1340	
77	Ir	M3-O4	4.86899996	0.5 C	2.546					155.9506	
42	Mo	SLB2^B	4.86590930	1	2.548					155.8516	
81	Tl	M3-N4	4.86499977	1 C	2.548					155.8225	
77	Ir	MIII	4.86083036	BB	2.550					155.6889	
42	Mo	SLB2^2	4.86059860	1	2.550					155.6815	
44	Ru	LA2	4.85440016	11.34 C	2.554					155.4830	
42	Mo	SLB2^C	4.85278290	1	2.554					155.4312	
44	Ru	LB17	4.85249996	0.01 C	2.555					155.4221	
44	Ru	LA1	4.84679985	100 C	2.558					155.2395	
42	Mo	LG5	4.83729982	0.22 C	2.563					154.9352	
44	Ru	SLA2'	4.83695090	1	2.563					154.9241	
44	Ru	SLA3	4.83254210	1	2.565					154.7829	
44	Ru	SLA4	4.82753200	1	2.568					154.6224	
44	Ru	SLA5	4.82302290	1	2.570					154.4780	
81	Tl	MG	4.82299995	3 C	2.570					154.4772	
83	Bi	M4-O2	4.82299995	1 C	2.570					154.4772	
74	W	MII	4.81514622	BB	2.574					154.2257	
44	Ru	SLA6	4.81440550	1	2.575					154.2020	
81	Tl	SMG'	4.80969600	1	2.577					154.0511	
93	Np	MZ1	4.80800009	1 C	2.578					153.9968	

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
44	Ru	SLA7	4.80759180	1	2.578					153.9837	
42	Mo	LG11	4.80709982	0.01 C	2.579					153.9680	
83	Bi	MV	4.80637308	BB	2.579					153.9447	
42	Mo	L2-N3	4.79990005	0.01 C	2.583					153.7374	
44	Ru	SLA8	4.79837320	1	2.583					153.6885	
82	Pb	MIV	4.79521968	BB	2.585					153.5875	
76	Os	M1-N3	4.78999996	0.5 C	2.588					153.4203	
77	Ir	M2-N4	4.78000021	0.2 C	2.593					153.1000	
43	Tc	LB4	4.77589989	3.76 C	2.596					152.9687	
72	Hf	MI	4.76701142	BB	2.600					152.6840	
43	Tc	LB6	4.75750017	0.73 C	2.606					152.3793	
43	Tc	LB3	4.74109983	6.44 C	2.615					151.8540	
17	Cl	KA2	4.73210001	50.54 C	2.620					151.5658	
17	Cl	KA1,2	4.72970009	150.54 C	2.621					151.4889	
17	Cl	KA1	4.72849989	100 C	2.622					151.4505	
42	Mo	LG1	4.72669983	1.67 C	2.623					151.3928	
42	Mo	LG8	4.72669983	0.01 C	2.623					151.3928	
17	Cl	SKA"	4.72432390	1	2.624					151.3167	
42	Mo	LII	4.72306579	BB	2.625					151.2764	
82	Pb	M3-N4	4.71500015	5 C	2.629					151.0181	
42	Mo	LB9	4.71269989	0.08 C	2.630					150.9444	
17	Cl	SKA'	4.71169840	1	2.631					150.9123	
17	Cl	SKA3	4.71099700	3	2.631					150.8899	
47	Ag	LI	4.70870018	4.13 C	2.633					150.8163	
79	Au	M3-O1	4.70300007	0.1 C	2.636					150.6337	
17	Cl	SKA3'	4.70127740	1	2.637					150.5785	
17	Cl	SKA4	4.69566610	3	2.640					150.3988	
78	Pt	M3-O4	4.69399977	0.5 C	2.641					150.3455	
78	Pt	M3-O5	4.69145760	1	2.642					150.2640	
78	Pt	MIII	4.68682241	BB	2.645					150.1156	
94	Pu	MZ1	4.67600012	1 C	2.651					149.7689	
82	Pb	MG	4.67399979	5 C	2.652					149.7049	
42	Mo	SLG1'	4.67241930	1	2.653					149.6542	
17	Cl	SKA7	4.67041520	1	2.654					149.5901	
46	Pd	Ln	4.66090012	1.29 C	2.660					149.2853	
82	Pb	SMG'	4.65939300	1	2.660					149.2370	
41	Nb	LG2	4.65570021	0.59 C	2.663					149.1187	
41	Nb	LG3	4.65570021	1.03 C	2.663					149.1187	
82	Pb	M2-N1	4.65500021	0.01 C	2.663					149.0963	
43	Tc	LB2	4.63649988	5.84 C	2.674					148.5038	

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
43	Tc	LB7	4.63310003	0.04	C	2.676				148.3949	
43	Tc	LIII	4.63167096		ABS	2.676				148.3491	
77	Ir	M1-N3	4.63100004	0.5	C	2.677				148.3276	
92	U	M4-N3	4.62500000	0.01	C	2.680				148.1354	
75	Re	MII	4.62355310		ABS	2.681				148.0891	
84	Po	MV	4.62114051		ABS	2.682				148.0118	
44	Ru	LB1	4.62099981	41.3	C	2.683				148.0073	
83	Bi	MIV	4.61323114		ABS	2.687				147.7585	
44	Ru	SLB1'	4.60969280	1		2.689				147.6452	
41	Nb	SLG2'	4.60728800	1		2.691				147.5681	
45	Rh	LA2	4.60550022	11.34	C	2.692				147.5109	
78	Pt	M2-N4	4.60099983	0.5	C	2.694				147.3667	
45	Rh	LA1	4.59870005	100	C	2.696				147.2931	
44	Ru	SLB1"	4.59776880	1		2.696				147.2632	
41	Nb	LI	4.59595952		ABS	2.697				147.2053	
44	Ru	SLB1'''	4.59085480	1		2.700				147.0418	
45	Rh	LB17	4.59019995	0.01	C	2.701				147.0208	
83	Bi	M4-P2	4.59000015	0.01	C	2.701				147.0144	
45	Rh	SLA2'	4.58865040	1		2.701				146.9712	
45	Rh	SLA3	4.58464230	1		2.704				146.8428	
44	Ru	SLB1^4	4.58143580	1		2.706				146.7401	
45	Rh	SLA4	4.58033360	1		2.706				146.7048	
73	Ta	MI	4.57847858		ABS	2.707				146.6454	
45	Rh	SLA5	4.57582450	1		2.709				146.5604	
83	Bi	M3-N4	4.57100010	5	C	2.712				146.4059	
45	Rh	SLA6	4.56830940	1		2.713				146.3197	
90	Th	M3-N1	4.56799984	1	C	2.714				146.3098	
45	Rh	SLA7	4.56129520	1		2.718				146.0950	
45	Rh	SLA8	4.55668600	1		2.720				145.9474	
45	Rh	SLA9	4.55257770	1		2.723				145.8158	
43	Tc	LG5	4.55140018	0.23	C	2.724				145.7781	
83	Bi	MG	4.53200006	5	C	2.735				145.1567	
44	Ru	LB4	4.52320004	3.85	C	2.741				144.8749	
79	Au	M3-O5	4.52311830	1		2.741				144.8722	
79	Au	M3-O4	4.52199984	0.5	C	2.741				144.8364	
79	Au	MIII	4.52005833		ABS	2.742				144.7742	
83	Bi	SMG'	4.51510210	1		2.745				144.6155	
43	Tc	L2-N3	4.51170015	0.01	C	2.748				144.5065	
44	Ru	LB3	4.48719978	6.54	C	2.763				143.7218	
44	Ru	LB6	4.48719978	0.75	C	2.763				143.7218	

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
43	Tc	LG11	4.48210001	0.01	C	2.766				143.5585	
48	Cd	LI	4.48070002	4.17	C	2.767				143.5136	
78	Pt	M1-N3	4.46000004	1	C	2.779				142.8506	
43	Tc	LB9	4.45529985	0.08	C	2.782				142.7001	
91	Pa	M3-N1	4.44999981	1	C	2.786				142.5303	
85	At	MV	4.44917645		BB	2.786				142.5039	
17	Cl	SKBN	4.44656400	1		2.788				142.4203	
43	Tc	LG8	4.44540024	0.01	C	2.789				142.3830	
43	Tc	LG1	4.44379997	2.18	C	2.790				142.3317	
76	Os	MII	4.44041258		BB	2.792				142.2232	
74	W	M1-O2	4.44000006	0.01	C	2.792				142.2100	
43	Tc	LII	4.43882286		BB	2.793				142.1723	
79	Au	M2-N4	4.43200016	0.5	C	2.797				141.9538	
84	Po	MIV	4.43120801		BB	2.797				141.9284	
47	Ag	Ln	4.41839981	1.31	C	2.806				141.5182	
17	Cl	SKB'	4.41500030	1		2.808				141.4093	
17	Cl	KB1	4.40430021	8.06	C	2.815				141.0666	
17	Cl	KB3	4.40430021	4.09	C	2.815				141.0666	
17	Cl	SKB1X	4.40217450	1		2.816				140.9985	
17	Cl	SKB^5	4.39966940	1		2.817				140.9183	
17	Cl	SKBX	4.39946900	1		2.818				140.9118	
74	W	MI	4.39726202		BB	2.819				140.8412	
17	Cl	SKB''	4.39415830	1		2.821				140.7417	
17	Cl	K	4.39289966		BB	2.822				140.7014	
42	Mo	LG2	4.38100004	0.6	C	2.829				140.3203	
42	Mo	LG3	4.38100004	1.05	C	2.829				140.3203	
46	Pd	LA2	4.37629986	11.34	C	2.833				140.1698	
45	Rh	LB1	4.37480021	41.83	C	2.834				140.1217	
44	Ru	LB2	4.37319994	7.26	C	2.835				140.0705	
44	Ru	LB7	4.37169981	0.04	C	2.836				140.0224	
44	Ru	LIII	4.36890659		BB	2.837				139.9329	
46	Pd	LA1	4.36859989	100	C	2.838				139.9231	
44	Ru	SLB2^A	4.36469890	1		2.840				139.7982	
45	Rh	SLB1'	4.36179310	1		2.842				139.7051	
46	Pd	SLA2'	4.35848640	1		2.844				139.5992	
46	Pd	SLA3	4.35578090	1		2.846				139.5125	
80	Hg	MIII	4.35478908		BB	2.847				139.4808	
45	Rh	SLB1''	4.35187310	1		2.848				139.3874	
46	Pd	SLA4	4.35147230	1		2.849				139.3745	
46	Pd	LB17	4.35020018	0.01	C	2.850				139.3338	

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
46	Pd	SLA5	4.34686300	1	2.852					139.2269	
17	Cl	SKB'''	4.34576070	1	2.852					139.1916	
45	Rh	SLB1'''	4.34425770	1	2.853					139.1435	
46	Pd	SLA5	4.34365650	1	2.854					139.1242	
17	Cl	SKB'''	4.34065040	1	2.856					139.0279	
46	Pd	SLA6	4.34014940	1	2.856					139.0119	
45	Rh	SLB1^4	4.33614130	1	2.859					138.8835	
44	Ru	SLB2^1	4.33463830	1	2.860					138.8354	
17	Cl	SKB^4	4.33333570	1	2.861					138.7936	
42	Mo	SLG2'	4.33273450	1	2.861					138.7744	
46	Pd	SLA7	4.33273450	1	2.861					138.7744	
92	U	M3-N1	4.32999992	1 C	2.863					138.6868	
46	Pd	SLA8	4.32852600	1	2.864					138.6396	
17	Cl	SKB^4	4.32812520	1	2.864					138.6268	
42	Mo	LI	ABS	4.32682603	BB	2.865				138.5851	
44	Ru	SLB2^B	4.32682260	1	2.865					138.5850	
46	Pd	SLA9	4.32171230	1	2.868					138.4214	
44	Ru	SLB2^2	4.32010900	1	2.869					138.3700	
44	Ru	SLB2^C	4.31299470	1	2.874					138.1421	
79	Au	M1-N3	4.30000019	1 C	2.883					137.7259	
45	Rh	LB4	4.28999996	3.95 C	2.890					137.4056	
44	Ru	LG5	4.28849983	0.23 C	2.891					137.3576	
86	Rn	MV	ABS	4.28658553	BB	2.892				137.2963	
49	In	LI	4.26929998	4.15 C	2.904					136.7426	
77	Ir	MII	ABS	4.26256403	BB	2.908				136.5269	
85	At	MIV	ABS	4.26256403	BB	2.908				136.5269	
45	Rh	LB3	4.25320005	6.67 C	2.915					136.2270	
44	Ru	L2-N3	4.24739981	0.01 C	2.918					136.0412	
82	Pb	M3-O1	4.24399996	0.5 C	2.921					135.9323	
45	Rh	LB6	4.24300003	0.76 C	2.922					135.9003	
75	Re	MI	ABS	4.22912303	BB	2.931				135.4558	
93	Np	M3-N1	4.22499990	1 C	2.934					135.3237	
44	Ru	LB9	4.21789980	0.09 C	2.939					135.0963	
81	Tl	M3-O4	4.21600008	0.5 C	2.940					135.0355	
18	Ar	KA2	4.19560003	50.42 C	2.955					134.3821	
48	Cd	Ln	4.19420004	1.32 C	2.956					134.3372	
18	Ar	KA1,2	4.19369984	150.42 C	2.956					134.3212	
81	Tl	MIII	ABS	4.19350605	BB	2.956				134.3150	
18	Ar	KA1	4.19280005	100 C	2.956					134.2924	
44	Ru	LG11	4.18830013	0.01 C	2.960					134.1483	

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
44	Ru	LG8	4.18709993	0.01 C	2.961					134.1098	
44	Ru	LG1	4.18289995	2.72 C	2.963					133.9753	
44	Ru	LII	4.17894772	BB	2.966					133.8487	
47	Ag	LA2	4.16319990	11.28 C	2.978					133.3443	
47	Ag	LA1	4.15490007	100 C	2.983					133.0785	
90	Th	MA2	4.15100002	100 C	2.986					132.9536	
46	Pd	LB1	4.14650011	42.97 C	2.990					132.8094	
47	Ag	SLA2'	4.14495590	1	2.991					132.7600	
47	Ag	SLA3	4.14305210	1	2.992					132.6990	
47	Ag	SLA4	4.13934460	1	2.995					132.5802	
90	Th	MA1	4.13810015	100 C	2.996					132.5404	
44	Ru	SLG1'	4.13633860	1	2.997					132.4840	
46	Pd	SLB1'	4.13513610	1	2.998					132.4454	
47	Ag	SLA5	4.13483550	1	2.998					132.4358	
87	Fr	MV	4.13297777	BB	2.999					132.3763	
47	Ag	SLA5	4.13192970	1	3.000					132.3427	
45	Rh	LB2	4.13129997	8.54 C	3.001					132.3226	
43	Tc	LG2	4.12989998	0.63 C	3.002					132.2777	
43	Tc	LG3	4.12989998	1.11 C	3.002					132.2777	
45	Rh	LB7	4.12989998	0.04 C	3.002					132.2777	
90	Th	SMA^1	4.12812200	1	3.003					132.2208	
47	Ag	SLA6	4.12792160	1	3.003					132.2144	
45	Rh	LIII	4.12761169	BB	3.003					132.2044	
47	Ag	LB17	4.12720013	0.01 C	3.003					132.1913	
46	Pd	SLB1''	4.12521610	1	3.005					132.1277	
45	Rh	SLB2^A	4.12481530	1	3.005					132.1149	
47	Ag	SLA7	4.12060680	1	3.008					131.9801	
94	Pu	M3-N1	4.11999989	1 C	3.009					131.9606	
90	Th	SMA^2	4.11970500	1	3.009					131.9512	
46	Pd	SLB1'''	4.11780120	1	3.010					131.8902	
47	Ag	SLA8	4.11609780	1	3.012					131.8357	
81	Tl	M2-N4	4.11600018	1 C	3.012					131.8325	
46	Pd	SLB1^4	4.11128810	1	3.015					131.6816	
83	Bi	M3-O1	4.10500002	0.5 C	3.020					131.4802	
86	Rn	MIV	4.10343207	BB	3.021					131.4300	
90	Th	SMA^4	4.09725980	1	3.025					131.2323	
78	Pt	MII	4.09665290	BB	3.026					131.2129	
45	Rh	SLB2^1	4.09625780	1	3.026					131.2002	
45	Rh	SLB2^B	4.09064640	1	3.030					131.0205	
45	Rh	SLB2^2	4.08383270	1	3.035					130.8022	

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
45	Rh	SLB2^C	4.07611720	1	3.041					130.5551	
43	Tc	LI	4.07510929	BB	3.042					130.5228	
50	Sn	LI	4.07299995	4.16 C	3.043					130.4553	
46	Pd	LB4	4.07159996	4.07 C	3.045					130.4104	
82	Pb	M3-O5	4.07120730	1	3.045					130.3979	
82	Pb	M3-O4	4.06899977	1 C	3.046					130.3271	
76	Os	MI	4.06708873	BB	3.048					130.2659	
45	Rh	LG5	4.04640007	0.24 C	3.063					129.6033	
82	Pb	MIII	4.04334725	BB	3.066					129.5055	
47	Ag	SLL	4.03814060	1	3.070					129.3388	
46	Pd	LB3	4.03579998	6.82 C	3.072					129.2638	
91	Pa	MA2	4.03499985	100 C	3.072					129.2382	
47	Ag	SLM	4.02411230	1	3.080					128.8894	
91	Pa	MA1	4.02199984	100 C	3.082					128.8218	
46	Pd	LB6	4.01620007	0.77 C	3.086					128.6360	
81	Tl	M1-N3	4.01300001	1 C	3.089					128.5335	
45	Rh	L2-N3	4.00579977	0.01 C	3.095					128.3029	
45	Rh	LB9	3.99810004	0.1 C	3.100					128.0563	
88	Ra	MV	3.99321073	BB	3.104					127.8997	
49	In	Ln	3.98399997	1.32 C	3.111					127.6047	
82	Pb	M2-N4	3.96799994	5 C	3.124					127.0922	
48	Cd	LA2	3.96609998	11.39 C	3.125					127.0313	
48	Cd	LA1	3.95729995	100 C	3.132					126.7495	
87	Fr	MIV	3.95335757	BB	3.136					126.6232	
45	Rh	LG8	3.95099998	0.01 C	3.137					126.5477	
48	Cd	SLA2'	3.94765820	1	3.140					126.4407	
48	Cd	SLA3	3.94515310	1	3.142					126.3604	
45	Rh	LG1	3.94470000	3.28 C	3.142					126.3459	
48	Cd	SLA4	3.94174630	1	3.145					126.2513	
90	Th	MB	3.94099998	60 C	3.145					126.2274	
45	Rh	LII	3.94091733	BB	3.145					126.2248	
79	Au	MII	3.93878900	BB	3.147					126.1566	
48	Cd	SLA5	3.93753780	1	3.148					126.1165	
47	Ag	LB1	3.93589997	43.97 C	3.149					126.0641	
48	Cd	SLA5	3.93443150	1	3.151					126.0170	
83	Bi	M3-O5	3.93393050	1	3.151					126.0010	
90	Th	SMB1	3.93332930	1	3.152					125.9817	
83	Bi	M3-O4	3.93199992	1 C	3.153					125.9391	
48	Cd	SLA6	3.93082430	1	3.154					125.9015	
48	Cd	SLA7	3.92571400	1	3.158					125.7378	

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
90	Th	SMB2	3.92511270	1	3.158					125.7185	
92	U	MA2	3.92400002	100 C	3.159					125.6829	
47	Ag	SLB1'	3.92340930	1	3.159					125.6640	
45	Rh	LG11	3.92249990	0.01 C	3.160					125.6349	
48	Cd	SLA8	3.92240730	1	3.160					125.6319	
48	Cd	LB17	3.92219996	0.01 C	3.160					125.6253	
48	Cd	SLA9	3.91789820	1	3.164					125.4875	
90	Th	SMB3	3.91789820	1	3.164					125.4875	
47	Ag	SLB1"	3.91539320	1	3.166					125.4072	
92	U	MA1	3.91000009	100 C	3.170					125.2345	
46	Pd	LB2	3.90980005	10.35 C	3.170					125.2281	
46	Pd	LB7	3.90860009	0.04 C	3.171					125.1897	
47	Ag	SLB1'''	3.90737700	1	3.172					125.1505	
46	Pd	LIII	3.90713768		3.173					125.1428	
77	Ir	MI	3.90664524		3.173					125.1270	
46	Pd	SLB2^A	3.90316850	1	3.176					125.0157	
83	Bi	MIII	3.90271019		3.176					125.0010	
45	Rh	SLG1'	3.90186590	1	3.177					124.9740	
47	Ag	SLB1^4	3.90086390	1	3.178					124.9419	
92	U	SMA^1	3.89986180	1	3.179					124.9098	
44	Ru	LG2	3.89879990	0.67 C	3.179					124.8758	
44	Ru	LG3	3.89879990	1.15 C	3.179					124.8758	
92	U	SMA^2	3.89214630	1	3.185					124.6627	
83	Bi	M1-N2	3.89199996	1 C	3.185					124.6580	
51	Sb	LI	3.88899994	4.19 C	3.187					124.5619	
18	Ar	KB1	3.88660002	10.17 C	3.189					124.4850	
18	Ar	KB3	3.88660002	5.17 C	3.189					124.4850	
18	Ar	SKB^5	3.88202590	1	3.193					124.3385	
46	Pd	SLB2^1	3.87681540	1	3.197					124.1716	
92	U	SMA^4	3.87681540	1	3.197					124.1716	
82	Pb	M1-N3	3.87199998	0.1 C	3.201					124.0174	
18	Ar	K	3.87102938		3.202					123.9863	
46	Pd	SLB2^B	3.87100370	1	3.202					123.9855	
47	Ag	LB4	3.87080002	4.44 C	3.202					123.9790	
46	Pd	SLB2^2	3.86559280	1	3.207					123.8122	
46	Pd	SLB2^C	3.85797740	1	3.213					123.5683	
89	Ac	MV	3.85166822		3.218					123.3662	
44	Ru	LI	3.84569479		3.223					123.1749	
83	Bi	M2-N4	3.83400011	5 C	3.233					122.8003	
47	Ag	LB3	3.83369994	7.37 C	3.233					122.7907	

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
91	Pa	MB	3.82699990	60 C	3.239					122.5761	
46	Pd	LG5	3.82299995	0.24 C	3.242					122.4480	
88	Ra	MIV	3.81680827	BB	3.248					122.2496	
47	Ag	SLM	3.81268610	1	3.251					122.1176	
93	Np	MA1,2	3.81100011	200 C	3.253					122.0636	
47	Ag	LB6	3.80890012	0.79 C	3.254					121.9963	
90	Th	M4-O2	3.80800009	1 C	3.255					121.9675	
46	Pd	LB10	3.79865780	0.001	3.263					121.6683	
46	Pd	LB9	3.79539990	0.1 C	3.266					121.5639	
50	Sn	Ln	3.78920007	1.58 C	3.271					121.3654	
46	Pd	L2-N3	3.78220010	0.01 C	3.277					121.1412	
80	Hg	MII	3.78176605	BB	3.278					121.1273	
49	In	LA2	3.78110003	11.32 C	3.278					121.1059	
49	In	LA1	3.77300000	100 C	3.285					120.8465	
78	Pt	MI	3.76168689	BB	3.295					120.4841	
49	In	SLA3	3.76128250	1	3.296					120.4712	
90	Th	M5-P3	3.75999999	0.01 C	3.297					120.4301	
49	In	SLA4	3.75817620	1	3.298					120.3717	
84	Po	MIII	3.75496532	BB	3.301					120.2689	
49	In	SLA5	3.75216410	1	3.304					120.1791	
49	In	SLA5	3.75146270	1	3.304					120.1567	
49	In	SLA6	3.74695360	1	3.308					120.0122	
19	K	KA2	3.74569988	50.58 C	3.309					119.9721	
19	K	KA1,2	3.74340010	150.58 C	3.311					119.8984	
19	K	KA1	3.74230003	100 C	3.312					119.8632	
83	Bi	M1-N3	3.74000001	0.1 C	3.314					119.7895	
49	In	SLA7	3.73963880	1	3.315					119.7780	
48	Cd	LB1	3.73889995	44.63 C	3.315					119.7543	259.9876
19	K	SKA"	3.73843640	1	3.316					119.7394	259.9553
46	Pd	LG8	3.73440003	0.01 C	3.319					119.6102	259.6747
49	In	SLA8	3.73262470	1	3.321					119.5533	259.5512
49	In	LB17	3.73099995	0.02 C	3.322					119.5013	259.4382
19	K	SKA'	3.72811560	1	3.325					119.4089	259.2377
49	In	SLA9	3.72811560	1	3.325					119.4089	259.2377
48	Cd	SLB1'	3.72791520	1	3.325					119.4025	259.2237
46	Pd	LG1	3.72539997	4.07 C	3.327					119.3219	259.0488
19	K	SKA3"	3.72370670	1	3.329					119.2677	258.9311
46	Pd	LII	3.72294388	BB	3.330					119.2432	258.8781
90	Th	MV	3.72104442	BB	3.331					119.1824	258.7460
19	K	SKA3	3.72060050	1	3.332					119.1682	258.7151

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
48	Cd	SLB1"	3.71999930	1	3.332					119.1489	258.6733
90	Th	M3-N4	3.71799994	5 C	3.334					119.0849	258.5343
19	K	SKA3'	3.71799520	1	3.334					119.0847	258.5339
52	Te	LI	3.71760011	4.19 C	3.334					119.0721	258.5065
19	K	SKA	3.71749997	0.01 C	3.334					119.0689	258.4995
19	K	SKA4	3.71649220	1	3.335					119.0366	258.4294
92	U	MB	3.71600008	60 C	3.336					119.0208	258.3952
48	Cd	SLB1'''	3.71138190	1	3.340					118.8729	258.0741
92	U	SMB1	3.70857620	1	3.343					118.7830	257.8790
94	Pu	MA1,2	3.70700002	200 C	3.344					118.7326	257.7694
47	Ag	LB2	3.70420003	11.65 C	3.346					118.6429	257.5747
48	Cd	SLB1^4	3.70386670	1	3.347					118.6322	257.5515
47	Ag	LB7	3.70090008	0.03 C	3.349					118.5372	257.3452
92	U	SMB2	3.70076050	1	3.350					118.5327	257.3355
47	Ag	LIII	3.69983587	BB	3.350					118.5031	257.2712
47	Ag	SLB2^A	3.69675240	1	3.353					118.4043	257.0568
91	Pa	M4-O2	3.69099998	1 C	3.358					118.2201	256.6568
92	U	SMB3	3.69053990	1	3.359					118.2054	256.6248
45	Rh	LG2	3.68659997	0.7 C	3.362					118.0792	256.3509
45	Rh	LG3	3.68659997	1.21 C	3.362					118.0792	256.3509
46	Pd	SLG1'	3.68542960	1	3.364					118.0417	256.2695
48	Cd	LB4	3.68219995	4.69 C	3.366					117.9382	256.0449
46	Pd	LG11	3.68210006	0.01 C	3.367					117.9350	256.0380
90	Th	MG	3.67899990	5 C	3.369					117.8357	255.8224
89	Ac	MIV	3.67886772	BB	3.370					117.8315	255.8132
47	Ag	SLB2^1	3.67110070	1	3.377					117.5827	255.2731
90	Th	SMG'	3.66839520	1	3.379					117.4961	255.0850
47	Ag	SLB2^B	3.66609060	1	3.381					117.4223	254.9247
47	Ag	SLB2^2	3.66128090	1	3.386					117.2682	254.5903
45	Rh	SLG2'	3.65436690	1	3.392					117.0468	254.1095
47	Ag	SLB2^C	3.65386590	1	3.393					117.0307	254.0747
48	Cd	LB3	3.64540005	7.72 C	3.400					116.7596	253.4860
45	Rh	LI	3.63390486	BB	3.411					116.3914	252.6867
81	Tl	MII	3.62986211	BB	3.415					116.2619	252.4055
79	Au	MI	3.62011154	BB	3.424					115.9496	251.7275
85	At	MIII	3.61894921	BB	3.425					115.9124	251.6467
47	Ag	LG5	3.61669993	0.25 C	3.427					115.8403	251.4903
48	Cd	LB6	3.61570001	0.81 C	3.428					115.8083	251.4208
91	Pa	M3-N4	3.61400008	5 C	3.430					115.7538	251.3026
93	Np	MB	3.61199999	50 C	3.432					115.6898	251.1635

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
47	Ag	LB10	3.61148050	0.001	3.432					115.6731	251.1274
50	Sn	LA2	3.60929990	11.34 C	3.434					115.6033	250.9757
95	Am	MA1,2	3.60899997	200 C	3.435					115.5937	250.9549
51	Sb	Ln	3.60829997	1.55 C	3.435					115.5713	250.9062
47	Ag	LB9	3.60809994	0.12 C	3.436					115.5649	250.8923
91	Pa	MV	3.60233599	BB	3.441					115.3802	250.4915
50	Sn	LA1	3.60100007	100 C	3.442					115.3375	250.3986
50	Sn	SLA3	3.59174070	1	3.451					115.0409	249.7547
50	Sn	SLA4	3.58693100	1	3.456					114.8868	249.4203
50	Sn	SLA5	3.58302310	1	3.460					114.7617	249.1486
50	Sn	SLA5	3.57851400	1	3.464					114.6172	248.8350
47	Ag	L2-N3	3.57710004	0.01 C	3.465					114.5720	248.7367
91	Pa	MG	3.57699990	5 C	3.465					114.5687	248.7297
92	U	M4-O2	3.57599998	1 C	3.466					114.5367	248.6602
50	Sn	SLA6	3.57340370	1	3.469					114.4536	248.4797
50	Sn	SLA7	3.56899480	1	3.473					114.3123	248.1731
50	Sn	SLA8	3.56488660	1	3.477					114.1808	247.8874
53	I	LI	3.55859995	4.23 C	3.483					113.9794	247.4503
49	In	LB1	3.55550003	45.2 C	3.486					113.8801	247.2347
50	Sn	LB17	3.55349994	0.02 C	3.488					113.8161	247.0956
90	Th	MIV	3.55177037	BB	3.490					113.7607	246.9754
49	In	SLB1'	3.54664980	1	3.495					113.5967	246.6193
49	In	SLB1''	3.53873380	1	3.503					113.3431	246.0689
90	Th	M2-N1	3.53699994	0.01 C	3.505					113.2876	245.9483
49	In	SLB1'''	3.53061750	1	3.511					113.0832	245.5045
47	Ag	LG8	3.52719998	0.01 C	3.514					112.9737	245.2668
47	Ag	LG1	3.52320004	4.67 C	3.518					112.8456	244.9887
92	U	M3-N4	3.52099991	5 C	3.521					112.7751	244.8357
47	Ag	LII	3.51860828	BB	3.523					112.6985	244.6694
48	Cd	LB2	3.51419997	12.88 C	3.527					112.5573	244.3629
94	Pu	MB	3.51099992	50 C	3.531					112.4548	244.1404
48	Cd	SLB2^A	3.50807200	1	3.534					112.3610	243.9368
49	In	LB4	3.50720000	5.35 C	3.534					112.3331	243.8761
48	Cd	LB7	3.50629997	0.08 C	3.535					112.3043	243.8135
48	Cd	LIII	3.50488198	BB	3.537					112.2589	243.7149
86	Rn	MIII	3.50438666	BB	3.537					112.2430	243.6805
19	K	SKBN	3.49574720	1	3.546					111.9663	243.0797
92	U	MV	3.49086916	BB	3.551					111.8100	242.7405
46	Pd	LG2	3.48950005	0.74 C	3.552					111.7662	242.6453
46	Pd	LG3	3.48950005	1.25 C	3.552					111.7662	242.6453

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
82	Pb	MII	ABS	3.48841371	BB	3.553				111.7314	242.5698
47	Ag	SLG1'		3.48702960	1	3.555				111.6871	242.4736
48	Cd	SLB2^1		3.48432410	1	3.558				111.6004	242.2854
80	Hg	MI	ABS	3.48116577	BB	3.561				111.4992	242.0658
48	Cd	SLB2^B		3.47961470	1	3.562				111.4496	241.9580
92	U	MG		3.47900009	5 C	3.563				111.4299	241.9152
48	Cd	SLB2^2		3.47520580	1	3.567				111.3084	241.6514
49	In	LB3		3.47090006	8.78 C	3.571				111.1704	241.3520
92	U	SMG'		3.46999530	1	3.572				111.1415	241.2891
48	Cd	SLB2^C		3.46919360	1	3.573				111.1158	241.2333
47	Ag	LG11		3.46239996	0.01 C	3.580				110.8982	240.7609
19	K	KB1		3.45449996	11.61 C	3.588				110.6452	240.2116
19	K	KB3		3.45449996	5.8 C	3.588				110.6452	240.2116
19	K	SKB^5		3.44915320	1	3.594				110.4739	239.8398
51	Sb	LA2		3.44869995	11.35 C	3.594				110.4594	239.8083
19	K	KB5		3.44130000	0.01	3.602				110.2224	239.2937
19	K	SKB"		3.44113710	1	3.602				110.2172	239.2824
91	Pa	M2-N1		3.44099998	0.01 C	3.602				110.2128	239.2729
51	Sb	LA1		3.44009995	100 C	3.603				110.1839	239.2103
46	Pd	LI	ABS	3.43992453	BB	3.604				110.1783	239.1981
52	Te	Ln		3.43910003	1.54 C	3.604				110.1519	239.1407
19	K	K	ABS	3.43696845	BB	3.607				110.0836	238.9925
48	Cd	LB10		3.43652780	0.001	3.607				110.0695	238.9619
49	In	LB6		3.43630004	0.82 C	3.607				110.0622	238.9460
91	Pa	MIV	ABS	3.43335179	BB	3.610				109.9678	238.7410
48	Cd	LB9		3.43319988	0.13 C	3.611				109.9629	238.7305
51	Sb	SLA4		3.42650760	1	3.618				109.7486	238.2651
48	Cd	LG5		3.42580009	0.26 C	3.618				109.7259	238.2159
51	Sb	SLA5		3.42310070	1	3.621				109.6395	238.0282
51	Sb	SLA3		3.42069590	1	3.624				109.5624	237.8610
51	Sb	SLA5		3.41999450	1	3.625				109.5400	237.8122
51	Sb	SLA6		3.41608660	1	3.629				109.4148	237.5405
95	Am	MB		3.41400003	50 C	3.631				109.3480	237.3954
19	K	SKB"		3.41157750	1	3.634				109.2704	237.2269
19	K	SKB		3.41120005	0.01 C	3.634				109.2583	237.2007
51	Sb	SLA7		3.40907240	1	3.636				109.1901	237.0527
54	Xe	LI		3.40890002	4.24 C	3.636				109.1846	237.0408
51	Sb	SLA8		3.40426270	1	3.641				109.0361	236.7183
19	K	SKB^4		3.40396210	1	3.642				109.0265	236.6974
51	Sb	SLA9		3.40015450	1	3.646				108.9045	236.4326

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
51	Sb	SLA9	3.39404210	1	3.652					108.7087	236.0076
48	Cd	L2-N3	3.38750005	0.01 C	3.659					108.4992	235.5527
50	Sn	LB1	3.38560009	54.32 C	3.661					108.4383	235.4206
93	Np	MG	3.38499999	5 C	3.662					108.4191	235.3788
87	Fr	MIII	3.38479934	BB	3.662					108.4127	235.3649
93	Np	MV	3.38221398	BB	3.665					108.3299	235.1851
51	Sb	LB17	3.38190007	0.02 C	3.665					108.3198	235.1633
50	Sn	SLB1'	3.37650680	1	3.671					108.1471	234.7883
50	Sn	SLB1''	3.36829020	1	3.680					107.8839	234.2169
20	Ca	KA2	3.36269999	50.59 C	3.686					107.7049	233.8282
20	Ca	KA1,2	3.36019993	150.59 C	3.689					107.6248	233.6544
50	Sn	SLB1'''	3.35937230	1	3.690					107.5983	233.5968
20	Ca	KA1	3.35899997	100 C	3.690					107.5864	233.5709
20	Ca	SKA''	3.35586520	1	3.694					107.4860	233.3529
83	Bi	MII	3.35430566	BB	3.696					107.4360	233.2445
81	Tl	MI	3.34724225	BB	3.703					107.2098	232.7533
20	Ca	SKA'	3.34684700	1	3.704					107.1971	232.7258
50	Sn	LB4	3.34360003	9.48 C	3.707					107.0931	232.5001
20	Ca	SKA3''	3.34303930	1	3.708					107.0752	232.4611
20	Ca	SKA3	3.34013350	1	3.711					106.9821	232.2590
49	In	LB2	3.33909988	13.71 C	3.712					106.9490	232.1871
20	Ca	SKA	3.33899999	0.01 C	3.712					106.9458	232.1802
20	Ca	SKA3'	3.33772860	1	3.714					106.9051	232.0918
20	Ca	SKA4	3.33682680	1	3.715					106.8762	232.0291
48	Cd	LG1	3.33640003	5.2 C	3.715					106.8625	231.9994
48	Cd	LG8	3.33640003	0.03 C	3.715					106.8625	231.9994
49	In	SLB2^A	3.33241790	1	3.720					106.7350	231.7225
92	U	M2-N1	3.32900000	0.01 C	3.724					106.6255	231.4848
48	Cd	LII	3.32667561	BB	3.726					106.5510	231.3232
92	U	MIV	3.32614014	BB	3.727					106.5339	231.2860
49	In	LB7	3.32480001	0.1 C	3.728					106.4910	231.1928
49	In	LIII	3.32391089	BB	3.729					106.4625	231.1310
47	Ag	LG2	3.31229997	0.82 C	3.742					106.0906	230.3236
49	In	SLB2^1	3.31077430	1	3.744					106.0417	230.2175
47	Ag	LG3	3.30699992	1.4 C	3.748					105.9208	229.9550
49	In	SLB2^B	3.30636540	1	3.749					105.9005	229.9109
50	Sn	LB3	3.30620003	15.47 C	3.749					105.8952	229.8994
48	Cd	SLG1'	3.30265790	1	3.753					105.7818	229.6531
49	In	SLB2^2	3.30265790	1	3.753					105.7818	229.6531
52	Te	LA2	3.29909992	11.28 C	3.757					105.6678	229.4057

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
49	In	SLB2^C	3.29714680	1	3.760					105.6053	229.2699
94	Pu	MG	3.29299998	5 C	3.764					105.4724	228.9815
52	Te	LA1	3.28950000	100 C	3.768					105.3603	228.7382
90	Th	M3-O1	3.28299999	0.5 C	3.776					105.1521	228.2862
94	Pu	MV	3.28168127	BB	3.777					105.1099	228.1945
53	I	Ln	3.27990007	1.54 C	3.779					105.0529	228.0706
52	Te	SLA4	3.27750720	1	3.782					104.9762	227.9042
47	Ag	SLG2'	3.27660540	1	3.783					104.9473	227.8415
52	Te	SLA5	3.27430080	1	3.786					104.8735	227.6813
49	In	LB10	3.27400010	0.001	3.786					104.8639	227.6604
49	In	LB9	3.27060008	0.16 C	3.790					104.7550	227.4240
88	Ra	MIII	3.26982436	BB	3.791					104.7301	227.3700
50	Sn	LB6	3.26950002	0.84 C	3.791					104.7197	227.3475
55	Cs	LI	3.26780009	4.27 C	3.793					104.6653	227.2293
52	Te	SLA6	3.26728660	1	3.794					104.6489	227.1935
48	Cd	LG11	3.26200008	0.01 C	3.800					104.4795	226.8259
52	Te	SLA7	3.25917030	1	3.803					104.3889	226.6292
47	Ag	LI	3.25779600	BB	3.805					104.3449	226.5336
52	Te	SLA8	3.25516220	1	3.808					104.2605	226.3505
49	In	LG5	3.24979997	0.27 C	3.814					104.0888	225.9776
52	Te	SLA9	3.24925030	1	3.815					104.0712	225.9394
91	Pa	M3-O1	3.24499989	0.5 C	3.820					103.9350	225.6438
52	Te	SLA9	3.24123410	1	3.824					103.8144	225.3820
51	Sb	LB1	3.22620010	53.45 C	3.842					103.3329	224.3366
52	Te	LB17	3.22199988	0.02 C	3.847					103.1983	224.0445
93	Np	MIV	3.22014388	BB	3.850					103.1389	223.9154
82	Pb	MI	3.21980939	BB	3.850					103.1282	223.8922
84	Po	MII	3.21696894	BB	3.853					103.0372	223.6947
49	In	L2-N3	3.21110010	0.01 C	3.860					102.8492	223.2866
51	Sb	LB4	3.19050002	9.32 C	3.885					102.1894	221.8541
95	Am	MV	3.18982222	BB	3.886					102.1677	221.8070
50	Sn	LB2	3.17569995	14.69 C	3.903					101.7154	220.8250
89	Ac	MIII	3.17178818	BB	3.908					101.5901	220.5530
50	Sn	SLB2^A	3.16858760	1	3.912					101.4876	220.3304
49	In	LG1	3.16280007	5.67 C	3.919					101.3022	219.9280
49	In	LG8	3.16120005	0.03 C	3.921					101.2510	219.8167
53	I	LA2	3.15879989	11.33 C	3.924					101.1741	219.6498
50	Sn	LB7	3.15709996	0.11 C	3.926					101.1197	219.5316
50	Sn	LIII	3.15580330	BB	3.928					101.0781	219.4415
51	Sb	LB3	3.15310001	15.1 C	3.931					100.9915	219.2535

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
53	I	LA1	3.14910007	100	C	3.936				100.8634	218.9753
50	Sn	SLB2^1	3.14864740	1		3.937				100.8489	218.9439
49	In	LII	3.14843068		BB	3.937				100.8420	218.9288
50	Sn	SLB2^B	3.14524060	1		3.941				100.7398	218.7070
53	I	SLA3	3.14433880	1		3.942				100.7109	218.6443
50	Sn	SLB2^2	3.14093190	1		3.947				100.6018	218.4074
53	I	SLA4	3.13872740	1		3.949				100.5312	218.2541
48	Cd	LG2	3.13800001	0.89	C	3.950				100.5079	218.2035
48	Cd	LG3	3.13800001	1.51	C	3.950				100.5079	218.2035
56	Ba	LI	3.13639998	4.3	C	3.952				100.4566	218.0922
50	Sn	SLB2^C	3.13622240	1		3.953				100.4510	218.0799
53	I	SLA5	3.13532060	1		3.954				100.4221	218.0172
90	Th	M1-N2	3.13331650	1		3.956				100.3579	217.8778
20	Ca	SKBN	3.13241470	1		3.957				100.3290	217.8151
54	Xe	Ln	3.13240004	1.5	C	3.957				100.3285	217.8141
49	In	SLG1'	3.13131250	1		3.959				100.2937	217.7385
90	Th	M3-O4	3.13100004	1	C	3.959				100.2837	217.7167
90	Th	M3-O5	3.13031050	1		3.960				100.2616	217.6688
53	I	SLA6	3.12980950	1		3.961				100.2456	217.6340
53	I	SLA7	3.12289550	1		3.969				100.0241	217.1532
96	Cm	MV	3.12226643		BB	3.970				100.0040	217.1094
50	Sn	LB10	3.12169310	0.001		3.971				99.9856	217.0696
94	Pu	MIV	3.12100891		BB	3.972				99.9637	217.0220
50	Sn	LB9	3.11840010	0.29	C	3.975				99.8801	216.8406
51	Sb	LB6	3.11590004	0.87	C	3.978				99.8000	216.6668
53	I	SLA8	3.11507980	1		3.979				99.7738	216.6097
92	U	M3-O1	3.11500001	0.5	C	3.979				99.7712	216.6042
53	I	SLA9	3.10556060	1		3.992				99.4689	215.9478
20	Ca	SKB'	3.10115170	1		3.997				99.3277	215.6412
83	Bi	MI	3.10032757		BB	3.998				99.3013	215.5839
85	At	MII	3.09344311		BB	4.007				99.0808	215.1052
20	Ca	KB1	3.09030008	12.62	C	4.011				98.9801	214.8866
20	Ca	KB3	3.09030008	6.31	C	4.011				98.9801	214.8866
20	Ca	SKB^5	3.08642200	1		4.016				98.8559	214.6170
48	Cd	LI	3.08574415		BB	4.017				98.8342	214.5698
50	Sn	LG5	3.08559990	0.32	C	4.017				98.8296	214.5598
20	Ca	SKB''	3.08201310	1		4.022				98.7147	214.3104
49	In	LG11	3.07859993	0.02	C	4.027				98.6054	214.0731
52	Te	LB1	3.07719994	53.98	C	4.028				98.5605	213.9757
20	Ca	KB5	3.07419740	0.01		4.032				98.4643	213.7669

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
53	I	LB17	3.07259989	0.02	C	4.034				98.4132	213.6558
20	Ca	K	3.07038459		BB	4.037				98.3422	213.5018
90	Th	MIII	3.06431378		BB	4.045				98.1478	213.0797
20	Ca	SKB	3.05399990	0.01	C	4.059				97.8174	212.3625
20	Ca	SKB'''	3.05375620		1	4.059				97.8096	212.3455
50	Sn	L2-N3	3.04769993	0.01	C	4.067				97.6156	211.9244
20	Ca	SKB^4	3.04754360		1	4.068				97.6106	211.9135
52	Te	LB4	3.04699993	9.06	C	4.068				97.5932	211.8757
91	Pa	M3-O4	3.03800011		1 C	4.080				97.3050	211.2499
21	Sc	KA2	3.03500009	50.53	C	4.084				97.2089	211.0413
21	Sc	KA1,2	3.03250003	150.53	C	4.088				97.1288	210.8675
21	Sc	KA1	3.03130007	100	C	4.089				97.0904	210.7840
95	Am	MIV	3.02986731		BB	4.091				97.0445	210.6844
21	Sc	SKA''	3.02890610		1	4.093				97.0137	210.6176
54	Xe	LA2	3.02690005	11.31	C	4.095				96.9494	210.4781
51	Sb	LB2	3.02390003	15.56	C	4.099				96.8534	210.2695
21	Sc	SKA'	3.02099010		1	4.103				96.7601	210.0671
21	Sc	SKA3''	3.01768340		1	4.108				96.6542	209.8372
54	Xe	LA1	3.01729989	100	C	4.108				96.6420	209.8105
51	Sb	SLB2^A	3.01698200		1	4.109				96.6318	209.7884
21	Sc	SKA3	3.01517840		1	4.111				96.5740	209.6630
21	Sc	SKA	3.01399994	0.01	C	4.113				96.5363	209.5810
21	Sc	SKA3'	3.01267330		1	4.115				96.4938	209.4888
21	Sc	SKA4	3.01237270		1	4.115				96.4841	209.4679
90	Th	M2-N4	3.01099992		5 C	4.117				96.4402	209.3724
52	Te	LB3	3.00920010	14.58	C	4.119				96.3825	209.2473
57	La	LI	3.00629997	4.32	C	4.123				96.2896	209.0456
51	Sb	LB7	3.00559998	0.12	C	4.124				96.2672	208.9969
50	Sn	LG1	3.00200009	7.25	C	4.129				96.1519	208.7466
51	Sb	LIII	3.00046464		BB	4.131				96.1027	208.6399
51	Sb	SLB2^1	2.99894570		1	4.133				96.0541	208.5342
50	Sn	LG8	2.99830008	0.04	C	4.134				96.0334	208.4893
55	Cs	Ln	2.99399996	1.52	C	4.140				95.8957	208.1903
51	Sb	SLB2^2	2.99143050		1	4.144				95.8134	208.0117
84	Po	MI	2.98802718		BB	4.149				95.7044	207.7750
50	Sn	LII	2.98321022		BB	4.155				95.5501	207.4401
86	Rn	MII	2.98113008		BB	4.158				95.4835	207.2954
49	In	LG2	2.98029995	1.05	C	4.159				95.4569	207.2377
49	In	LG3	2.98029995	1.77	C	4.159				95.4569	207.2377
51	Sb	LB10	2.97900550	0.001		4.161				95.4154	207.1477

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
51	Sb	LB9	2.97569990	0.3	C	4.166				95.3095	206.9178
50	Sn	SLG1'	2.97449640	1		4.167				95.2710	206.8341
52	Te	LB6	2.97099996	0.89	C	4.172				95.1590	206.5910
91	Pa	MIII	2.97055920		BB	4.173				95.1449	206.5604
92	U	M3-O4	2.94799995	1	C	4.205				94.4223	204.9917
92	U	M3-O5	2.94694080	1		4.206				94.3884	204.9180
53	I	LB1	2.93790007	53.86	C	4.219				94.0988	204.2894
90	Th	M1-N3	2.93400002	0.1	C	4.225				93.9739	204.0182
54	Xe	LB17	2.93379998	0.02	C	4.225				93.9675	204.0043
96	Cm	MIV	2.93317246		BB	4.226				93.9474	203.9606
51	Sb	LG5	2.93239999	0.32	C	4.227				93.9227	203.9069
49	In	LG4	2.92680001	0.03	C	4.235				93.7433	203.5175
49	In	LI	2.92590442		BB	4.237				93.7146	203.4552
92	U	M1-N2	2.92000008	1	C	4.245				93.5255	203.0447
53	I	LB4	2.91240001	9.19	C	4.256				93.2821	202.5162
91	Pa	M2-N4	2.91000009	5	C	4.260				93.2052	202.3493
50	Sn	LG11	2.90980005	0.03	C	4.260				93.1988	202.3354
55	Cs	LA2	2.90219998	11.34	C	4.271				92.9554	201.8069
51	Sb	L2-N3	2.89610004	0.01	C	4.280				92.7600	201.3828
55	Cs	LA1	2.89269996	100	C	4.285				92.6511	201.1463
58	Ce	LI	2.89199996	4.36	C	4.286				92.6287	201.0977
55	Cs	SLA3	2.88792180	1		4.292				92.4981	200.8141
55	Cs	SLL	2.88491580	1		4.297				92.4018	200.6051
52	Te	LB2	2.88260007	16.27	C	4.300				92.3276	200.4440
92	U	MIII	2.88109867		BB	4.303				92.2795	200.3396
52	Te	SLB2^A	2.87669920	1		4.309				92.1386	200.0337
55	Cs	SLM	2.87629840	1		4.310				92.1258	200.0058
53	I	LB3	2.87459993	14.64	C	4.312				92.0714	199.8877
85	At	MI	2.87202224		BB	4.316				91.9888	199.7085
55	Cs	SLM	2.86898370	1		4.321				91.8915	199.4972
87	Fr	MII	2.86538479		BB	4.326				91.7762	199.2470
52	Te	LB7	2.86400008	0.13	C	4.328				91.7319	199.1507
56	Ba	Ln	2.86330009	1.51	C	4.329				91.7095	199.1020
93	Np	M3-O4	2.86100006	1	C	4.333				91.6358	198.9421
52	Te	SLB2^1	2.85846250	1		4.337				91.5545	198.7656
52	Te	LIII	2.85588059		BB	4.341				91.4718	198.5861
51	Sb	LG1	2.85209990	7.58	C	4.346				91.3507	198.3232
52	Te	SLB2^2	2.85094730	1		4.348				91.3138	198.2430
52	Te	LB10	2.84673880	0.001		4.354				91.1790	197.9504
51	Sb	SLG1'	2.84573680	1		4.356				91.1469	197.8807

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
52	Te	LB9	2.84229994	0.31	C	4.361				91.0368	197.6417
51	Sb	LG8	2.84030008	0.04	C	4.364				90.9728	197.5027
53	I	LB6	2.83710003	0.91	C	4.369				90.8703	197.2802
50	Sn	LG2	2.83319998	1.93	C	4.375				90.7454	197.0090
50	Sn	LG3	2.83319998	3.21	C	4.375				90.7454	197.0090
51	Sb	LII	2.83045384		BB	4.380				90.6574	196.8180
21	Sc	SKBN	2.81888270	1		4.397				90.2868	196.0134
83	Bi	NV	2.81784545		BB	4.399				90.2536	195.9413
92	U	M2-N4	2.81699991	5	C	4.400				90.2265	195.8825
54	Xe	LB1	2.80690002	52.81	C	4.416				89.9030	195.1802
55	Cs	LB17	2.80439997	0.02	C	4.420				89.8229	195.0063
93	Np	MIII	2.79579678		BB	4.434				89.5474	194.4081
52	Te	LG5	2.79049993	0.33	C	4.442				89.3777	194.0398
21	Sc	SKB'	2.78882210	1		4.445				89.3240	193.9231
54	Xe	LB4	2.78609991	8.93	C	4.449				89.2368	193.7338
56	Ba	LA2	2.78609991	11.35	C	4.449				89.2368	193.7338
59	Pr	LI	2.78480005	4.4	C	4.451				89.1952	193.6434
21	Sc	KB1	2.77979994	12.84	C	4.459				89.0350	193.2957
21	Sc	KB3	2.77979994	6.42	C	4.459				89.0350	193.2957
50	Sn	LG4	2.77800012	0.16	C	4.462				88.9774	193.1706
94	Pu	M3-O4	2.77800012	1	C	4.462				88.9774	193.1706
50	Sn	LI	2.77701077		BB	4.464				88.9457	193.1018
56	Ba	LA1	2.77670002	100	C	4.464				88.9357	193.0802
56	Ba	SLA3	2.77309040	1		4.470				88.8201	192.8292
56	Ba	SLL	2.77238890	1		4.471				88.7976	192.7804
21	Sc	SKB''	2.77148710	1		4.473				88.7687	192.7177
86	Rn	MI	2.76629183		BB	4.481				88.6023	192.3564
21	Sc	KB5	2.76370001	0.01	C	4.485				88.5193	192.1762
56	Ba	SLA5	2.76357120	1		4.486				88.5152	192.1673
88	Ra	MII	2.76167056		BB	4.489				88.4543	192.0351
56	Ba	SLA6	2.76066530	1		4.490				88.4221	191.9652
21	Sc	K	2.75964209		BB	4.492				88.3894	191.8941
51	Sb	LG11	2.75500011	0.03	C	4.499				88.2407	191.5713
52	Te	L2-N3	2.75449991	0.01	C	4.500				88.2247	191.5365
92	U	M1-N3	2.75300002	0.1	C	4.503				88.1766	191.4322
22	Ti	KA2	2.75270009	50.68	C	4.503				88.1670	191.4113
53	I	LB2	2.75090003	17.06	C	4.506				88.1094	191.2862
22	Ti	KA1,2	2.75020003	150.68	C	4.507				88.0869	191.2375
22	Ti	KA1	2.74900007	100	C	4.509				88.0485	191.1541
21	Sc	SKB'''	2.74894170	1		4.509				88.0466	191.1500

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
56	Ba	SLA7	2.74874130	1	4.510					88.0402	191.1361
54	Xe	LB3	2.74780011	14.12 C	4.511					88.0101	191.0706
22	Ti	SKA"	2.74643660	1	4.513					87.9664	190.9758
53	I	SLB2^A	2.74593560	1	4.514					87.9504	190.9410
21	Sc	SKB	2.74399996	0.01 C	4.517					87.8884	190.8064
21	Sc	SKB^4	2.74363100	1	4.518					87.8765	190.7807
56	Ba	SLA8	2.74182730	1	4.521					87.8188	190.6553
57	La	Ln	2.74049997	1.5 C	4.523					87.7763	190.5630
22	Ti	SKA'	2.73992350	1	4.524					87.7578	190.5229
22	Ti	SKA3"	2.73671700	1	4.530					87.6551	190.2999
22	Ti	SKA	2.73490000	0.01 C	4.533					87.5969	190.1736
56	Ba	SLA9	2.73381120	1	4.534					87.5620	190.0979
22	Ti	SKA3	2.73240830	1	4.537					87.5171	190.0003
22	Ti	SKA4	2.73040430	1	4.540					87.4529	189.8610
53	I	LB7	2.72909999	0.14 C	4.542					87.4111	189.7703
93	Np	M2-N4	2.72900009	5 C	4.542					87.4079	189.7633
56	Ba	SLA9	2.72529400	1	4.549					87.2892	189.5056
53	I	SLB2^2	2.72399140	1	4.551					87.2475	189.4151
94	Pu	MIII	2.72100250	BB	4.556					87.1518	189.2072
53	I	LB10	2.72088510	0.001	4.556					87.1480	189.1991
53	I	LIII	2.72070396	BB	4.556					87.1422	189.1865
53	I	LB9	2.71700001	0.32 C	4.562					87.0236	188.9289
52	Te	LG1	2.71289992	7.97 C	4.569					86.8922	188.6438
54	Xe	LB6	2.71169996	0.93 C	4.571					86.8538	188.5604
51	Sb	LG2	2.69580007	1.94 C	4.598					86.3445	187.4547
51	Sb	LG3	2.69580007	3.21 C	4.598					86.3445	187.4547
52	Te	LG8	2.69470000	0.05 C	4.600					86.3093	187.3783
52	Te	LII	2.68831743	BB	4.611					86.1049	186.9344
55	Cs	LB1	2.68420005	53.73 C	4.618					85.9730	186.6481
56	Ba	LB17	2.68300009	0.02 C	4.620					85.9346	186.5647
60	Nd	LI	2.67659998	4.43 C	4.631					85.7296	186.1196
57	La	LA2	2.67600012	11.31 C	4.632					85.7104	186.0779
55	Cs	LB4	2.66680002	8.87 C	4.648					85.4157	185.4382
57	La	LA1	2.66630006	100 C	4.649					85.3997	185.4034
87	Fr	MI	2.66520206	BB	4.651					85.3645	185.3271
89	Ac	MII	2.66291237	BB	4.655					85.2912	185.1679
53	I	LG5	2.65770006	0.34 C	4.664					85.1242	184.8054
95	Am	MIII	2.65663595	BB	4.666					85.0901	184.7314
94	Pu	M2-N4	2.64400005	5 C	4.688					84.6854	183.8528
51	Sb	LG4	2.64010000	0.27 C	4.695					84.5605	183.5816

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
51	Sb	LI	ABS	2.63893749	BB	4.697				84.5233	183.5008
55	Cs	LB3		2.62890005	13.99 C	4.715				84.2018	182.8028
54	Xe	LB2		2.62779999	17.7 C	4.717				84.1666	182.7263
53	I	L2-N3		2.62229991	0.01 C	4.727				83.9904	182.3438
58	Ce	Ln		2.62059999	1.5 C	4.730				83.9359	182.2256
90	Th	M2-O4		2.61800003	1 C	4.735				83.8527	182.0449
52	Te	LG11		2.61220002	0.03 C	4.745				83.6669	181.6415
54	Xe	LB7		2.60299993	0.15 C	4.762				83.3722	181.0018
54	Xe	LB9		2.59929991	0.33 C	4.769				83.2537	180.7445
55	Cs	LB6		2.59369993	0.95 C	4.779				83.0744	180.3551
54	Xe	LIII	ABS	2.59263937	BB	4.781				83.0404	180.2814
96	Cm	MIII	ABS	2.58464040	BB	4.796				82.7842	179.7252
53	I	LG1		2.58290005	8.38 C	4.799				82.7284	179.6041
61	Pm	LI		2.57699990	4.48 C	4.810				82.5395	179.1939
88	Ra	MI	ABS	2.57124015	BB	4.821				82.3550	178.7934
58	Ce	LA2		2.57119989	11.35 C	4.821				82.3537	178.7906
57	La	LB17		2.56960011	0.03 C	4.824				82.3025	178.6793
56	Ba	LB1		2.56850004	53.81 C	4.826				82.2672	178.6028
52	Te	LG2		2.56800008	1.93 C	4.827				82.2512	178.5681
52	Te	LG3		2.56800008	3.17 C	4.827				82.2512	178.5681
90	Th	MII	ABS	2.56676880	BB	4.829				82.2118	178.4824
58	Ce	LA1		2.56209993	100 C	4.838				82.0622	178.1578
53	I	LG8		2.55949998	0.05 C	4.843				81.9790	177.9770
56	Ba	LB4		2.55579996	8.86 C	4.850				81.8604	177.7197
53	I	LII	ABS	2.55528946	BB	4.851				81.8441	177.6842
22	Ti	SKBN		2.55104270	1	4.859				81.7081	177.3889
54	Xe	LG5		2.53379989	0.33 C	4.892				81.1558	176.1899
91	Pa	M2-O4		2.52699995	0.01 C	4.905				80.9380	175.7171
22	Ti	SKB'		2.52238490	1	4.914				80.7902	175.3962
56	Ba	LB3		2.51690006	13.78 C	4.925				80.6145	175.0148
22	Ti	KB1		2.51430011	12.99 C	4.930				80.5312	174.8340
22	Ti	KB3		2.51430011	6.58 C	4.930				80.5312	174.8340
55	Cs	LB2		2.51230001	19.59 C	4.934				80.4672	174.6949
59	Pr	Ln		2.51230001	1.49 C	4.934				80.4672	174.6949
52	Te	LG4		2.51180005	0.39 C	4.935				80.4512	174.6601
52	Te	LI	ABS	2.51022838	BB	4.938				80.4008	174.5509
23	V	KA2		2.50769997	50.99 C	4.943				80.3198	174.3750
55	Cs	SLB2^B		2.50765530	1	4.943				80.3184	174.3719
22	Ti	SKB''		2.50635260	1	4.946				80.2767	174.2814
23	V	KA1,2		2.50539994	150.99 C	4.948				80.2462	174.2151

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
23	V	KA1	2.50419998	100	C	4.950				80.2077	174.1317
23	V	SKA"	2.50154290	1		4.955				80.1226	173.9469
54	Xe	L2-N3	2.49959993	0.01	C	4.959				80.0604	173.8118
22	Ti	KB5	2.49909997	0.01	C	4.960				80.0444	173.7770
22	Ti	K	2.49648035		BB	4.965				79.9605	173.5949
23	V	SKA'	2.49583140	1		4.967				79.9397	173.5498
23	V	SKA3"	2.49272520	1		4.973				79.8402	173.3338
55	Cs	LB10	2.49162290	0.001		4.975				79.8049	173.2571
23	V	SKA3	2.49112190	1		4.976				79.7889	173.2223
23	V	SKA4	2.48941850	1		4.979				79.7343	173.1038
22	Ti	SKB"	2.48861690	1		4.981				79.7086	173.0481
55	Cs	LB9	2.48839998	0.34	C	4.982				79.7017	173.0330
55	Cs	SLB2^2	2.48801570	1		4.982				79.6894	173.0063
22	Ti	SKB	2.48790002	0.01	C	4.983				79.6857	172.9982
55	Cs	LB7	2.48510003	0.16	C	4.988				79.5960	172.8035
56	Ba	LB6	2.48309994	0.97	C	4.992				79.5319	172.6645
62	Sm	LI	2.48259997	4.52	C	4.993				79.5159	172.6297
53	I	LG11	2.48000002	0.04	C	4.998				79.4326	172.4489
91	Pa	MII	2.47925773		BB	5.000				79.4088	172.3973
89	Ac	MI	2.47871251		BB	5.001				79.3914	172.3594
55	Cs	LIII	2.47381632		BB	5.011				79.2346	172.0189
59	Pr	LA2	2.47320008	11.34	C	5.012				79.2148	171.9761
59	Pr	LA1	2.46339989	100	C	5.032				78.9009	171.2946
58	Ce	LB17	2.46289992	0.03	C	5.033				78.8849	171.2598
54	Xe	LG1	2.46190000	8.56	C	5.035				78.8529	171.1903
57	La	LB1	2.45950007	53.29	C	5.040				78.7760	171.0234
57	La	LB4	2.44970012	8.72	C	5.060				78.4621	170.3420
53	I	LG2	2.44779992	2	C	5.064				78.4013	170.2098
53	I	LG3	2.44779992	3.27	C	5.064				78.4013	170.2098
92	U	M2-O4	2.44300008	0.01	C	5.074				78.2475	169.8761
90	Th	M1-O3	2.44199991	0.01	C	5.076				78.2155	169.8065
54	Xe	LG8	2.43479991	0.05	C	5.091				77.9849	169.3059
54	Xe	LII	2.42931991		BB	5.103				77.8094	168.9248
55	Cs	LG5	2.41770005	0.34	C	5.127				77.4372	168.1168
57	La	LB3	2.41070008	13.41	C	5.142				77.2130	167.6301
60	Nd	Ln	2.40969992	1.47	C	5.144				77.1810	167.5605
56	Ba	LB2	2.40459991	19.05	C	5.155				77.0176	167.2059
56	Ba	SLB2^B	2.40344520	1		5.158				76.9806	167.1256
56	Ba	SLB2^A	2.40063950	1		5.164				76.8908	166.9305
63	Eu	LI	2.39529991	4.56	C	5.175				76.7197	166.5592

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
92	U	MII	ABS	2.39252055	BB	5.181				76.6307	166.3659
90	Th	MI	ABS	2.39247438	BB	5.181				76.6292	166.3627
53	I	LG4		2.39159989	0.54 C	5.183				76.6012	166.3019
53	I	LI	ABS	2.38979973	BB	5.187				76.5436	166.1768
56	Ba	LB10		2.38651100	0.001	5.194				76.4382	165.9481
55	Cs	L2-N3		2.38429999	0.01 C	5.199				76.3674	165.7943
56	Ba	LB7		2.38100004	0.18 C	5.206				76.2617	165.5649
60	Nd	LA2		2.38100004	11.32 C	5.206				76.2617	165.5649
56	Ba	LB9		2.38089991	0.35 C	5.206				76.2585	165.5579
57	La	LB6		2.37919998	1 C	5.210				76.2041	165.4397
60	Nd	LA1		2.37100005	100 C	5.228				75.9414	164.8695
56	Ba	LIII	ABS	2.36297313	BB	5.246				75.6843	164.3113
59	Pr	LB17		2.36290002	0.03 C	5.246				75.6820	164.3063
54	Xe	LG11		2.35770011	0.04 C	5.258				75.5154	163.9447
58	Ce	LB1		2.35660005	53.75 C	5.260				75.4802	163.8682
58	Ce	LB4		2.34990001	8.7 C	5.275				75.2656	163.4023
55	Cs	LG1		2.34859991	9.02 C	5.278				75.2240	163.3119
55	Cs	SLG		2.34633000	1	5.283				75.1513	163.1540
54	Xe	LG2		2.33929992	1.98 C	5.299				74.9261	162.6652
54	Xe	LG3		2.33710003	3.23 C	5.304				74.8556	162.5122
55	Cs	SLG		2.33350420	1	5.312				74.7405	162.2622
55	Cs	SLG		2.32468640	1	5.332				74.4580	161.6490
23	V	SKBN		2.31987670	1	5.343				74.3040	161.3146
55	Cs	LG8		2.31830001	0.06 C	5.347				74.2535	161.2050
55	Cs	LII	ABS	2.31341568	BB	5.358				74.0970	160.8653
64	Gd	LI		2.31259990	4.63 C	5.360				74.0709	160.8086
58	Ce	LB3		2.31139994	13.25 C	5.363				74.0325	160.7252
61	Pm	Ln		2.31139994	1.48 C	5.363				74.0325	160.7252
93	Np	MII	ABS	2.31048414	BB	5.365				74.0032	160.6615
91	Pa	MI	ABS	2.31018279	BB	5.366				73.9935	160.6405
56	Ba	LG5		2.30879998	0.35 C	5.369				73.9492	160.5444
92	U	M1-O3		2.30399990	0.01 C	5.380				73.7955	160.2106
57	La	LB2		2.30320001	19.58 C	5.382				73.7698	160.1550
24	Cr	KA2		2.29380012	50.93 C	5.404				73.4688	159.5013
61	Pm	LA2		2.29299998	11.33 C	5.406				73.4431	159.4457
24	Cr	KA1,2		2.29130006	150.93 C	5.410				73.3887	159.3275
23	V	SKB'		2.29041730	1	5.412				73.3604	159.2661
24	Cr	KA1		2.28999996	100 C	5.413				73.3471	159.2371
57	La	LB10		2.28961570	0.001	5.414				73.3348	159.2104
57	La	LB9		2.28559995	0.36 C	5.424				73.2061	158.9311

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
23	V	KB1	2.28489995	13.24 C	5.425					73.1837	158.8825
23	V	KB3	2.28489995	6.69 C	5.425					73.1837	158.8825
61	Pm	LA1	2.28239989	100 C	5.431					73.1036	158.7086
24	Cr	SKA'	2.28230100	1	5.431					73.1005	158.7017
58	Ce	LB6	2.28200006	1 C	5.432					73.0908	158.6808
24	Cr	SKA3"	2.28019670	1	5.436					73.0331	158.5554
54	Xe	LG4	2.27950001	0.69 C	5.438					73.0108	158.5070
24	Cr	SKA3	2.27899430	1	5.439					72.9946	158.4718
24	Cr	SKA4	2.27749130	1	5.443					72.9464	158.3673
23	V	SKB"	2.27689000	1	5.444					72.9272	158.3255
56	Ba	L2-N3	2.27609992	0.01 C	5.446					72.9019	158.2705
57	La	LB7	2.27530003	0.19 C	5.448					72.8762	158.2149
54	Xe	LI	2.27378961	BB	5.452					72.8279	158.1099
23	V	KB5	2.26990008	0.01 C	5.461					72.7033	157.8394
23	V	K	2.26867212	BB	5.464					72.6639	157.7540
60	Nd	LB17	2.26859999	0.03 C	5.464					72.6616	157.7490
57	La	LB5	2.26780009	0.18 C	5.466					72.6360	157.6934
23	V	SKB""	2.26226060	1	5.479					72.4586	157.3082
57	La	LIII	2.26138946	BB	5.482					72.4307	157.2476
59	Pr	LB1	2.25909996	53.59 C	5.487					72.3574	157.0884
59	Pr	LB4	2.25539994	8.64 C	5.496					72.2388	156.8311
92	U	M1-P3	2.25300002	0.01 C	5.502					72.1620	156.6643
55	Cs	SLG	2.24552680	1	5.520					71.9226	156.1446
55	Cs	LG11	2.24359989	0.04 C	5.525					71.8609	156.0106
56	Ba	LG1	2.24200010	9.36 C	5.529					71.8097	155.8994
55	Cs	SLG10	2.24141850	1	5.530					71.7910	155.8589
56	Ba	SLG1'	2.23991550	1	5.534					71.7429	155.7544
56	Ba	SLG	2.23861290	1	5.537					71.7012	155.6638
94	Pu	MII	2.23751534	BB	5.540					71.6660	155.5875
55	Cs	LG2	2.23749995	2.01 C	5.540					71.6655	155.5865
65	Tb	LI	2.23550010	4.65 C	5.545					71.6015	155.4474
92	U	MI	2.23477289	BB	5.547					71.5782	155.3968
55	Cs	LG3	2.23309994	3.25 C	5.551					71.5246	155.2805
62	Sm	Ln	2.21869993	1.49 C	5.587					71.0634	154.2792
59	Pr	LB3	2.21749997	13.09 C	5.590					71.0249	154.1957
58	Ce	SLB14	2.21656840	1	5.592					70.9951	154.1310
56	Ba	SLG	2.21616760	1	5.593					70.9823	154.1031
56	Ba	LG8	2.21359992	0.06 C	5.600					70.9000	153.9245
62	Sm	LA2	2.21120000	11.33 C	5.606					70.8232	153.7577
58	Ce	LB2	2.20919991	19.4 C	5.611					70.7591	153.6186

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
57	La	LG5	2.20609999	0.35 C	5.619					70.6598	153.4030
56	Ba	LII ABS	2.20473007	BB	5.622					70.6159	153.3078
58	Ce	SLB2^A	2.20454420	1	5.623					70.6100	153.2949
62	Sm	SLA3^Z	2.20213940	1	5.629					70.5329	153.1276
62	Sm	LA1	2.20020008	100 C	5.634					70.4708	152.9928
58	Ce	LB10	2.19512520	0.001	5.647					70.3083	152.6399
62	Sm	SLA^X	2.19342180	1	5.651					70.2537	152.5214
58	Ce	LB9	2.19190001	0.37 C	5.655					70.2050	152.4156
59	Pr	LB6	2.19090009	1.02 C	5.658					70.1730	152.3461
58	Ce	LB7	2.18079996	0.18 C	5.684					69.8495	151.6438
61	Pm	LB17	2.17549992	0.03 C	5.698					69.6797	151.2752
57	La	L2-N3	2.17470002	0.01 C	5.700					69.6541	151.2196
55	Cs	LG4	2.17429996	0.76 C	5.701					69.6413	151.1918
58	Ce	LB5	2.17319989	0.17 C	5.704					69.6060	151.1153
95	Am	MII ABS	2.17129347	BB	5.709					69.5450	150.9827
58	Ce	Lu	2.17020011	0.01 C	5.712					69.5100	150.9067
55	Cs	SLG	2.16977410	1	5.713					69.4963	150.8771
55	Cs	LI ABS	2.16973558	BB	5.713					69.4951	150.8744
60	Nd	LB1	2.16709995	53.34 C	5.720					69.4107	150.6911
60	Nd	LB4	2.16709995	8.58 C	5.720					69.4107	150.6911
93	Np	MI ABS	2.16636148	BB	5.722					69.3870	150.6398
58	Ce	LIII ABS	2.16628577	BB	5.722					69.3846	150.6345
66	Dy	LI	2.15919995	4.73 C	5.741					69.1576	150.1418
60	Nd	SLB1'	2.15915270	1	5.741					69.1561	150.1385
56	Ba	SLG10	2.14452320	1	5.780					68.6875	149.1212
57	La	LG1	2.14199996	9.57 C	5.787					68.6067	148.9458
56	Ba	LG2	2.13910007	2.04 C	5.795					68.5138	148.7441
56	Ba	LG11	2.13879991	0.05 C	5.796					68.5042	148.7233
56	Ba	LG3	2.13470006	3.31 C	5.807					68.3729	148.4382
63	Eu	LA2	2.13170004	11.35 C	5.815					68.2768	148.2296
63	Eu	Ln	2.13170004	1.5 C	5.815					68.2768	148.2296
60	Nd	LB3	2.12730002	12.87 C	5.827					68.1359	147.9236
59	Pr	SLB14	2.12628640	1	5.830					68.1034	147.8531
63	Eu	LA1	2.12109995	100 C	5.844					67.9373	147.4925
59	Pr	LB2	2.11969995	19.52 C	5.848					67.8925	147.3951
24	Cr	SKBN	2.11776930	1	5.853					67.8306	147.2609
56	Ba	SLG	2.11766910	1	5.854					67.8274	147.2539
57	La	LG8	2.11570001	0.07 C	5.859					67.7644	147.1170
57	La	LG6	2.11389995	0.09 C	5.864					67.7067	146.9918
58	Ce	LG5	2.11069989	0.35 C	5.873					67.6042	146.7693

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
59	Pr	LB10	2.10674710	0.001	5.884					67.4776	146.4944
25	Mn	KA2	2.10599995	50.97 C	5.886					67.4537	146.4425
57	La	LII	2.10479747	BB	5.889					67.4152	146.3589
60	Nd	LB6	2.10419989	1.03 C	5.891					67.3960	146.3173
25	Mn	KA1,2	2.10339999	150.97 C	5.893					67.3704	146.2617
59	Pr	LB9	2.10339999	0.38 C	5.893					67.3704	146.2617
96	Cm	MII	2.10322646	BB	5.894					67.3648	146.2496
25	Mn	KA1	2.10209990	100 C	5.897					67.3288	146.1713
25	Mn	SKA'	2.09512360	1	5.917					67.1053	145.6862
25	Mn	SKA3"	2.09352040	1	5.921					67.0540	145.5747
25	Mn	SKA3	2.09251840	1	5.924					67.0219	145.5050
59	Pr	LB7	2.09220004	0.18 C	5.925					67.0117	145.4829
25	Mn	SKA4	2.09111550	1	5.928					66.9769	145.4075
24	Cr	SKB'	2.09001330	1	5.931					66.9416	145.3308
94	Pu	MI	2.08979083	BB	5.932					66.9345	145.3154
62	Sm	LB17	2.08759999	0.03 C	5.938					66.8643	145.1630
67	Ho	LI	2.08649993	4.76 C	5.941					66.8291	145.0865
24	Cr	KB1	2.08509994	12.91 C	5.945					66.7843	144.9892
24	Cr	KB3	2.08509994	6.51 C	5.945					66.7843	144.9892
59	Pr	LB5	2.08410001	0.17 C	5.948					66.7522	144.9197
59	Pr	Lu	2.08229995	0.01 C	5.953					66.6946	144.7945
61	Pm	LB4	2.08200002	7.8 C	5.954					66.6850	144.7736
58	Ce	L2-N3	2.08019996	0.01 C	5.959					66.6273	144.6485
61	Pm	LB1	2.08019996	53.85 C	5.959					66.6273	144.6485
59	Pr	LIII	2.07878879	BB	5.963					66.5821	144.5503
24	Cr	SKB"	2.07768850	1	5.966					66.5469	144.4738
56	Ba	LG4	2.07599998	0.81 C	5.971					66.4928	144.3564
24	Cr	KB5	2.07119989	0.01 C	5.985					66.3390	144.0226
56	Ba	LI	2.07028453	BB	5.988					66.3097	143.9590
24	Cr	K	2.07014626	BB	5.988					66.3053	143.9494
24	Cr	SKB'"	2.06556400	1	6.001					66.1585	143.6307
64	Gd	LA2	2.05809999	11.34 C	6.023					65.9195	143.1117
58	Ce	SLG9	2.05524320	1	6.031					65.8280	142.9131
57	La	SLG10	2.05223720	1	6.040					65.7317	142.7041
64	Gd	Ln	2.04959989	1.49 C	6.048					65.6472	142.5207
58	Ce	LG1	2.04889989	9.55 C	6.050					65.6248	142.4720
64	Gd	LA1	2.04719996	100 C	6.055					65.5703	142.3538
57	La	LG2	2.04620004	2.06 C	6.058					65.5383	142.2843
60	Nd	SLB14	2.04291840	1	6.068					65.4332	142.0561
61	Pm	LB3	2.04250002	12.47 C	6.069					65.4198	142.0270

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
57	La	LG3	2.04150009	3.29 C	6.072					65.3878	141.9574
57	La	LG11	2.04049993	0.05 C	6.075					65.3558	141.8879
64	Gd	SLA^X	2.03981210	1	6.077					65.3337	141.8401
60	Nd	LB2	2.03649998	19.57 C	6.087					65.2276	141.6098
58	Ce	SLG1'	2.03309860	1	6.097					65.1187	141.3732
60	Nd	SLB2^A	2.03249740	1	6.099					65.0994	141.3314
95	Am	MI	2.02573646	BB	6.119					64.8829	140.8613
58	Ce	LG8	2.02419996	0.06 C	6.124					64.8337	140.7545
61	Pm	LB6	2.02320004	1.04 C	6.127					64.8016	140.6849
60	Nd	LB10	2.02317860	0.001	6.127					64.8010	140.6834
59	Pr	LG5	2.02090001	0.35 C	6.134					64.7280	140.5250
60	Nd	LB9	2.01979995	0.39 C	6.137					64.6927	140.4485
58	Ce	LG6	2.01889992	0.09 C	6.140					64.6639	140.3859
58	Ce	Lv	2.01889992	0.01 C	6.140					64.6639	140.3859
68	Er	LI	2.01530004	4.82 C	6.151					64.5486	140.1356
58	Ce	LII	2.01137536	BB	6.163					64.4229	139.8627
60	Nd	LB7	2.00939989	0.18 C	6.169					64.3596	139.7253
63	Eu	LB17	2.00489998	0.03 C	6.183					64.2155	139.4124
62	Sm	LB4	2.00130010	8.69 C	6.194					64.1002	139.1621
60	Nd	LB5	2.00029993	0.16 C	6.197					64.0682	139.0926
60	Nd	Lu	1.99940002	0.01 C	6.200					64.0394	139.0300
62	Sm	LB1	1.99839997	54.39 C	6.203					64.0073	138.9604
60	Nd	LIII	1.99721645	BB	6.207					63.9694	138.8781
62	Sm	SLB1'	1.99161500	1	6.224					63.7900	138.4886
59	Pr	L2-N3	1.99129999	0.01 C	6.225					63.7799	138.4667
65	Tb	LA2	1.98780000	11.34 C	6.236					63.6678	138.2234
57	La	LG4	1.98339999	0.87 C	6.250					63.5269	137.9174
57	La	LI	1.97860300	BB	6.265					63.3732	137.5838
65	Tb	LA1	1.97669995	100 C	6.271					63.3123	137.4515
65	Tb	Ln	1.97329998	1.48 C	6.282					63.2034	137.2151
96	Cm	MI	1.97177481	BB	6.287					63.1545	137.1090
58	Ce	SLG10	1.96736610	1	6.301					63.0133	136.8025
59	Pr	SLG9	1.96616360	1	6.305					62.9748	136.7189
62	Sm	LB3	1.96270001	12.67 C	6.316					62.8639	136.4780
59	Pr	LG1	1.96140003	9.61 C	6.320					62.8222	136.3876
58	Ce	LG2	1.96050000	2.03 C	6.323					62.7934	136.3250
61	Pm	LB2	1.95620000	19.6 C	6.337					62.6557	136.0260
58	Ce	LG3	1.95550001	3.24 C	6.339					62.6333	135.9774
69	Tm	LI	1.95519996	4.89 C	6.340					62.6237	135.9565
58	Ce	LG11	1.94869995	0.05 C	6.361					62.4155	135.5045

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
62	Sm	LB6	1.94659996	1.06 C	6.368					62.3482	135.3585
59	Pr	SLG1'	1.94612320	1	6.370					62.3329	135.3253
61	Pm	LB9	1.94040000	0.4 C	6.388					62.1496	134.9274
26	Fe	KA2	1.94019997	51.23 C	6.389					62.1432	134.9135
26	Fe	KA1,2	1.93760002	151.23 C	6.398					62.0599	134.7327
59	Pr	LG8	1.93659997	0.06 C	6.401					62.0279	134.6631
26	Fe	KA1	1.93630004	100 C	6.402					62.0183	134.6423
60	Nd	LG5	1.93570006	0.35 C	6.404					61.9991	134.6005
61	Pm	LB7	1.93089998	0.18 C	6.420					61.8453	134.2668
59	Pr	LG6	1.93060005	0.08 C	6.421					61.8357	134.2459
59	Pr	Lv	1.93060005	0.01 C	6.421					61.8357	134.2459
26	Fe	SKA'	1.92989050	1	6.423					61.8130	134.1966
26	Fe	SKA3''	1.92878830	1	6.427					61.7777	134.1199
26	Fe	SKA3	1.92778630	1	6.430					61.7456	134.0503
64	Gd	LB17	1.92700005	0.03 C	6.433					61.7204	133.9956
26	Fe	SKA4	1.92668410	1	6.434					61.7103	133.9736
26	Fe	SKA3'	1.92608280	1	6.436					61.6911	133.9318
63	Eu	LB4	1.92579997	8.74 C	6.437					61.6820	133.9121
59	Pr	LII	1.92511645	BB	6.439					61.6601	133.8646
61	Pm	LB5	1.92159998	0.16 C	6.451					61.5475	133.6201
61	Pm	Lu	1.92130005	0.01 C	6.452					61.5379	133.5992
63	Eu	LB1	1.92069995	54.88 C	6.454					61.5186	133.5575
66	Dy	LA2	1.92009997	11.34 C	6.456					61.4994	133.5158
61	Pm	LIII	1.91948354	BB	6.458					61.4797	133.4729
66	Dy	SLAO	1.91616280	1	6.469					61.3733	133.2420
25	Mn	SKB'	1.91395840	1	6.477					61.3027	133.0887
63	Eu	SLB1'	1.91305660	1	6.480					61.2738	133.0260
66	Dy	SLA3^Z	1.91105250	1	6.486					61.2096	132.8867
25	Mn	KB1	1.91059995	13.4 C	6.488					61.1951	132.8552
25	Mn	KB3	1.91059995	6.8 C	6.488					61.1951	132.8552
66	Dy	LA1	1.90919995	100 C	6.493					61.1503	132.7578
60	Nd	L2-N3	1.90680003	0.01 C	6.501					61.0734	132.5910
66	Dy	SLA'	1.90494020	1	6.507					61.0139	132.4616
66	Dy	SLA^X	1.90193420	1	6.518					60.9176	132.2526
58	Ce	LG4	1.89950001	0.8 C	6.526					60.8396	132.0833
66	Dy	Ln	1.89779997	1.49 C	6.532					60.7852	131.9651
25	Mn	KB5	1.89750004	0.01 C	6.533					60.7756	131.9443
25	Mn	K	1.89608809	BB	6.538					60.7303	131.8461
25	Mn	SKB'''	1.89502020	1	6.541					60.6961	131.7718
70	Yb	LI	1.89460003	4.94 C	6.543					60.6827	131.7426

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
60	Nd	SLG9	1.89421860	1	6.544					60.6705	131.7161
58	Ce	LI	1.89325067	BB	6.547					60.6395	131.6488
62	Sm	SLB14	1.88980970	1	6.559					60.5293	131.4095
63	Eu	LB3	1.88709998	12.65 C	6.569					60.4425	131.2211
59	Pr	SLG10	1.88489980	1	6.576					60.3720	131.0681
62	Sm	LB2	1.88250005	19.77 C	6.585					60.2951	130.9012
59	Pr	LG2	1.87940001	2.04 C	6.596					60.1958	130.6857
60	Nd	LG1	1.87820005	9.64 C	6.600					60.1574	130.6022
59	Pr	LG3	1.87419999	3.21 C	6.614					60.0293	130.3241
63	Eu	LB6	1.87399995	1.07 C	6.615					60.0229	130.3102
62	Sm	LB10	1.86946870	0.001	6.631						129.9951
62	Sm	LB9	1.86520004	0.43 C	6.646						129.6983
59	Pr	LG11	1.86329997	0.05 C	6.653						129.5661
60	Nd	SLG1'	1.86275520	1	6.655						129.5283
62	Sm	LB7	1.85660005	0.18 C	6.677						129.1003
67	Ho	LA2	1.85630000	11.34 C	6.678						129.0794
60	Nd	LG8	1.85539997	0.06 C	6.681						129.0168
61	Pm	LG5	1.85520005	0.35 C	6.682						129.0029
64	Gd	LB4	1.85430002	8.79 C	6.685						128.9403
65	Tb	LB17	1.85380006	0.04 C	6.687						128.9056
60	Nd	Lv	1.84800005	0.01 C	6.708						128.5023
60	Nd	LG6	1.84770000	0.08 C	6.709						128.4814
62	Sm	Lu	1.84770000	0.01 C	6.709						128.4814
62	Sm	LB5	1.84739995	0.15 C	6.710						128.4605
64	Gd	LB1	1.84720004	55.16 C	6.711						128.4466
62	Sm	LIII	1.84606176	BB	6.715						128.3675
67	Ho	LA1	1.84519994	100 C	6.718						128.3075
60	Nd	LII	1.84460611	BB	6.720						128.2663
64	Gd	SLB1'	1.83920770	1	6.740						127.8909
71	Lu	LI	1.83620000	5.01 C	6.751						127.6817
70	Yb	Lt	1.83079070	0.01	6.771						127.3056
61	Pm	L2-N3	1.82669997	0.01 C	6.786						127.0211
67	Ho	Ln	1.82669997	1.51 C	6.786						127.0211
59	Pr	LG4	1.81949997	0.79 C	6.813						126.5205
63	Eu	SLB14	1.81756410	1	6.820						126.3859
64	Gd	LB3	1.81519997	12.55 C	6.829						126.2215
59	Pr	LI	1.81402821	BB	6.833						126.1400
63	Eu	LB15	1.81225340	0.001	6.840						126.0166
63	Eu	LB2	1.81210005	19.85 C	6.841						126.0059
60	Nd	SLG10	1.80584040	1	6.864						125.5706

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
64	Gd	LB6	1.80569994	1.09 C	6.865						125.5609
60	Nd	LG2	1.80149996	2.04 C	6.881						125.2688
63	Eu	LB10	1.79962790	0.001	6.888						125.1387
61	Pm	LG1	1.79920006	9.8 C	6.890						125.1089
60	Nd	LG3	1.79680002	3.18 C	6.899						124.9420
68	Er	LA2	1.79579997	11.34 C	6.903						124.8725
63	Eu	LB9	1.79489994	0.44 C	6.906						124.8099
27	Co	KA2	1.79320002	51.04 C	6.913						124.6917
27	Co	KA1,2	1.79059994	151.04 C	6.923						124.5109
27	Co	KA1	1.78929996	100 C	6.928						124.4205
65	Tb	LB4	1.78670001	8.74 C	6.938						124.2397
63	Eu	LB7	1.78540003	0.18 C	6.943						124.1493
68	Er	LA1	1.78470004	100 C	6.946						124.1006
66	Dy	LB17	1.78439999	0.04 C	6.947						124.0798
27	Co	SKA'	1.78369580	1	6.950						124.0308
60	Nd	LG11	1.78330004	0.05 C	6.951						124.0033
26	Fe	SKBN	1.78329500	1	6.951						124.0029
27	Co	SKA3''	1.78259360	1	6.954						123.9542
72	Hf	LI	1.78180003	5.09 C	6.957						123.8990
27	Co	SKA3	1.78169180	1	6.957						123.8915
27	Co	SKA4	1.78058950	1	6.962						123.8148
68	Er	SLA'	1.78048930	1	6.962						123.8078
27	Co	SKA3'	1.77998830	1	6.964						123.7730
62	Sm	LG5	1.77950001	0.36 C	6.966						123.7390
61	Pm	LG8	1.77880001	0.06 C	6.969						123.6904
63	Eu	Lu	1.77830005	0.01 C	6.971						123.6556
68	Er	SLA^X	1.77798430	1	6.972						123.6336
63	Eu	LB5	1.77750003	0.15 C	6.974						123.6000
63	Eu	LIII	1.77708151	BB	6.975						123.5709
65	Tb	LB1	1.77699995	55.13 C	6.976						123.5652
71	Lu	Lt	1.77588000	0.01	6.980						123.4873
61	Pm	Lv	1.77040005	0.01 C	7.002						123.1063
61	Pm	LG6	1.76989996	0.08 C	7.004						123.0715
65	Tb	SLB1'	1.76906630	1	7.007						123.0135
61	Pm	LII	1.76798426	BB	7.011						122.9383
26	Fe	SKB'	1.75954710	1	7.045						122.3516
26	Fe	KB1	1.75689995	13.48 C	7.056						122.1675
26	Fe	KB3	1.75689995	6.84 C	7.056						122.1675
68	Er	Ln	1.75689995	1.53 C	7.056						122.1675
62	Sm	L2-N3	1.75390005	0.01 C	7.068						121.9589

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
64	Gd	SLB14	1.75223240	1	7.074						121.8430
26	Fe	SKB"	1.74852490	1	7.089						121.5852
65	Tb	LB3	1.74740005	12.4 C	7.094						121.5069
64	Gd	LB15	1.74662110	0.001	7.097						121.4528
64	Gd	LB2	1.74570000	20.14 C	7.101						121.3887
60	Nd	LG4	1.74469995	0.78 C	7.105						121.3192
26	Fe	KB5	1.74450004	0.01 C	7.106						121.3053
26	Fe	K	ABS	BB	7.111						121.2235
65	Tb	LB6	1.74249995	1.1 C	7.114						121.1662
26	Fe	SKB"	1.74211200	1	7.116						121.1392
60	Nd	LI	ABS	BB	7.125						120.9853
69	Tm	LA2	1.73839998	11.35 C	7.131						120.8811
62	Sm	SLG9	1.73199160	1	7.157						120.4355
64	Gd	LB10	1.73159080	0.001	7.159						120.4076
61	Pm	LG2	1.72920001	2.01 C	7.169						120.2414
73	Ta	LI	1.72870004	5.15 C	7.171						120.2066
62	Sm	LG1	1.72749996	9.94 C	7.176						120.1232
64	Gd	LB9	1.72730005	0.46 C	7.177						120.1093
69	Tm	LA1	1.72700000	100 C	7.178						120.0884
61	Pm	LG3	1.72459996	3.11 C	7.188						119.9215
66	Dy	LB4	1.72119999	8.91 C	7.202						119.6851
64	Gd	LB7	1.72049999	0.19 C	7.205						119.6364
67	Ho	LB17	1.71910000	0.04 C	7.211						119.5391
62	Sm	SLG1'	1.71475680	1	7.229						119.2371
64	Gd	LB5	1.71340001	0.14 C	7.235						119.1427
64	Gd	Lu	1.71270001	0.01 C	7.238						119.0940
64	Gd	LIII	ABS	BB	7.241						119.0343
66	Dy	LB1	1.71099997	55.5 C	7.245						118.9758
63	Eu	LG5	1.70889997	0.36 C	7.254						118.8298
61	Pm	LG11	1.70829999	0.06 C	7.256						118.7881
62	Sm	LG8	1.70659995	0.06 C	7.264						118.6699
66	Dy	SLB1'	1.70263240	1	7.280						118.3940
62	Sm	Lv	1.69770002	0.01 C	7.302						118.0510
62	Sm	LG6	1.69700003	0.08 C	7.305						118.0023
69	Tm	Ln	1.69649994	1.56 C	7.307						117.9676
62	Sm	LII	ABS	BB	7.310						117.9110
72	Hf	Lt	1.69439995	0.1 C	7.316						117.8215
65	Tb	SLB14	1.68850390	1	7.341						117.4116
65	Tb	LB2	1.68340003	19.93 C	7.364						117.0566
70	Yb	LA2	1.68320000	11.34 C	7.365						117.0427

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
63	Eu	L2-N3	1.68289995	0.01 C	7.366						117.0219
66	Dy	LB3	1.68250000	12.53 C	7.368						116.9941
66	Dy	LB6	1.68250000	1.11 C	7.368						116.9941
74	W	LI	1.67859995	5.22 C	7.385						116.7229
61	Pm	LG4	1.67429996	0.77 C	7.404						116.4239
70	Yb	LA1	1.67229998	100 C	7.413						116.2848
61	Pm	LI	1.66918241	BB	7.426						116.0680
70	Yb	SLA'	1.66866390	1	7.429						116.0320
65	Tb	LB10	1.66736130	0.001	7.435						115.9414
70	Yb	SLA^X	1.66535720	1	7.443						115.8020
65	Tb	LB9	1.66340005	0.48 C	7.452						115.6659
72	Hf	Ls	1.66335320	0.01	7.452						115.6627
62	Sm	SLG10	1.66265180	1	7.456						115.6139
63	Eu	SLG9	1.66265180	1	7.456						115.6139
28	Ni	KA2	1.66190004	51.18 C	7.459						115.5616
62	Sm	LG2	1.66079998	2.08 C	7.464						115.4851
67	Ho	LB4	1.65970004	9.04 C	7.469						115.4087
28	Ni	KA1,2	1.65939999	151.18 C	7.470						115.3878
65	Tb	LB7	1.65880001	0.18 C	7.473						115.3461
28	Ni	KA1	1.65820003	100 C	7.476						115.3043
63	Eu	LG1	1.65769994	10.08 C	7.478						115.2696
68	Er	LB17	1.65709996	0.04 C	7.481						115.2279
62	Sm	LG3	1.65639997	3.18 C	7.484						115.1792
28	Ni	SKA"	1.65483600	1	7.491						115.0704
28	Ni	SKA'	1.65283200	1	7.500						114.9311
28	Ni	SKA3"	1.65213060	1	7.503						114.8823
28	Ni	SKA3	1.65132900	1	7.507						114.8266
65	Tb	LB5	1.65129995	0.13 C	7.507						114.8245
65	Tb	Lu	1.65069997	0.02 C	7.510						114.7828
28	Ni	SKA4	1.65032690	1	7.511						114.7569
65	Tb	LIII	1.65005590	BB	7.512						114.7380
28	Ni	SKA3'	1.64972570	1	7.514						114.7151
28	Ni	SKA'''	1.64782190	1	7.523						114.5827
67	Ho	LB1	1.64779997	56.32 C	7.523						114.5812
63	Eu	SLG1'	1.64732090	1	7.525						114.5479
28	Ni	SKA^4	1.64651930	1	7.529						114.4921
27	Co	SKBN	1.64501620	1	7.535						114.3876
28	Ni	SKA^5	1.64501620	1	7.535						114.3876
73	Ta	Lt	1.64380002	0.1 C	7.541						114.3030
64	Gd	LG5	1.64150000	0.37 C	7.552						114.1431

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
28	Ni	SKA^6	1.64140900	1	7.552						114.1368
67	Ho	SLB1'	1.63880370	1	7.564						113.9556
28	Ni	SKA^7	1.63840290	1	7.566						113.9277
62	Sm	LG11	1.63779998	0.06 C	7.569						113.8858
70	Yb	Ln	1.63580000	1.57 C	7.578						113.7467
63	Eu	LG8	1.63479996	0.06 C	7.583						113.6772
75	Re	LI	1.63090003	5.3 C	7.601						113.4060
71	Lu	LA2	1.63049996	11.35 C	7.603						113.3782
63	Eu	Lv	1.62940001	0.01 C	7.608						113.3017
63	Eu	LG6	1.62849998	0.08 C	7.612						113.2391
66	Dy	SLB14	1.62838270	1	7.612						113.2310
63	Eu	LII	1.62772184	BB	7.616						113.1850
66	Dy	LB2	1.62409997	20 C	7.633						112.9332
67	Ho	LB6	1.62409997	1.13 C	7.633						112.9332
27	Co	SKB'	1.62297180	1	7.638						112.8547
27	Co	KB1	1.62109995	13.54 C	7.647						112.7246
27	Co	KB3	1.62109995	6.88 C	7.647						112.7246
67	Ho	LB3	1.62070000	12.55 C	7.649						112.6967
71	Lu	LA1	1.61979997	100 C	7.653						112.6342
64	Gd	L2-N3	1.61710000	0.01 C	7.666						112.4464
71	Lu	SLA'	1.61625830	1	7.670						112.3879
27	Co	SKB''	1.61365300	1	7.682						112.2067
71	Lu	SLA^X	1.61295160	1	7.685						112.1580
73	Ta	Ls	1.61255080	0.01	7.687						112.1301
27	Co	KB5	1.60909998	0.01 C	7.704						111.8901
27	Co	K	1.60833841	BB	7.707						111.8372
62	Sm	LG4	1.60759997	0.79 C	7.711						111.7858
66	Dy	LB10	1.60734030	0.001	7.712						111.7678
27	Co	SKB'''	1.60703970	1	7.714						111.7469
66	Dy	LB7	1.60469997	0.18 C	7.725						111.5842
66	Dy	LB9	1.60309994	0.5 C	7.733						111.4729
62	Sm	LI	1.60253852	BB	7.735						111.4339
68	Er	LB4	1.60099995	9.22 C	7.743						111.3269
69	Tm	LB17	1.59850001	0.04 C	7.755						111.1531
64	Gd	SLG9	1.59782110	1	7.758						111.1058
63	Eu	LG2	1.59650004	2.1 C	7.764						111.0140
74	W	Lt	1.59549999	0.1 C	7.769						110.9444
64	Gd	LG1	1.59280002	10.26 C	7.783						110.7567
66	Dy	Lu	1.59239995	0.02 C	7.784						110.7289
66	Dy	LIII	1.59157392	BB	7.789						110.6714

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
63	Eu	LG3	1.59050000	3.18 C	7.794						110.5968
66	Dy	LB5	1.58870006	0.13 C	7.803						110.4716
70	Yb	L2-M2	1.58840001	0.01 C	7.804						110.4507
68	Er	LB1	1.58770001	56.58 C	7.808						110.4021
76	Os	LI	1.58519995	5.39 C	7.820						110.2282
72	Hf	LA2	1.58080006	11.35 C	7.842						109.9223
65	Tb	LG5	1.57900000	0.36 C	7.851						109.7971
68	Er	SLB1'	1.57878270	1	7.852						109.7820
71	Lu	Ln	1.57819998	1.6 C	7.855						109.7415
63	Eu	LG11	1.57179999	0.06 C	7.886						109.2964
64	Gd	LG8	1.57099998	0.06 C	7.891						109.2408
67	Ho	SLB14	1.57016530	1	7.895						109.1828
72	Hf	LA1	1.56980002	100 C	7.897						109.1574
68	Er	LB6	1.56780005	1.14 C	7.907						109.0183
67	Ho	LB2	1.56739998	19.95 C	7.909						108.9905
72	Hf	SLA'	1.56615730	1	7.915						108.9041
64	Gd	Lv	1.56519997	0.01 C	7.920						108.8375
64	Gd	LG6	1.56459999	0.07 C	7.923						108.7958
74	W	Ls	1.56415320	0.01	7.925						108.7647
64	Gd	LII	1.56343644	ABS BB	7.929						108.7149
72	Hf	SLA^X	1.56325140	1	7.930						108.7020
68	Er	LB3	1.56190002	12.58 C	7.936						108.6080
65	Tb	L2-N3	1.55400002	0.01 C	7.977						108.0587
75	Re	Lt	1.54949999	0.11 C	8.000						107.7458
67	Ho	LB10	1.54852170	0.001	8.005						107.6778
67	Ho	LB7	1.54820001	0.18 C	8.007						107.6554
69	Tm	LB4	1.54509997	9.45 C	8.023						107.4398
29	Cu	KA2	1.54470003	51.4 C	8.025						107.4120
67	Ho	LB9	1.54429996	0.53 C	8.027						107.3842
63	Eu	LG4	1.54419994	0.79 C	8.027						107.3773
70	Yb	LB17	1.54279995	0.04 C	8.035						107.2799
29	Cu	KA1,2	1.54219997	151.4 C	8.038						107.2382
77	Ir	LI	1.54209995	5.43 C	8.038						107.2312
29	Cu	KA1	1.54089999	100 C	8.045						107.1478
63	Eu	LI	1.53980626	ABS BB	8.050						107.0717
29	Cu	SKA"	1.53820090	1	8.059						106.9601
67	Ho	LB5	1.53799999	0.12 C	8.060						106.9461
67	Ho	Lu	1.53709996	0.03 C	8.065						106.8835
67	Ho	LIII	1.53616236	ABS BB	8.069						106.8184
29	Cu	SKA'	1.53609670	1	8.070						106.8138

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
29	Cu	SKA3	1.53469380	1	8.077						106.7162
65	Tb	SLG9	1.53449340	1	8.078						106.7023
29	Cu	SKA3'	1.53389220	1	8.081						106.6605
64	Gd	LG2	1.53330004	2.13 C	8.085						106.6193
71	Lu	L2-M2	1.53330004	0.01 C	8.085						106.6193
73	Ta	LA2	1.53330004	11.36 C	8.085						106.6193
29	Cu	SKA4	1.53299040	1	8.086						106.5978
65	Tb	LG1	1.53059995	10.21 C	8.099						106.4316
69	Tm	LB1	1.53059995	57.29 C	8.099						106.4316
64	Gd	LG3	1.52989995	3.2 C	8.102						106.3829
29	Cu	SKA'''	1.52798030	1	8.113						106.2494
73	Ta	SLAS	1.52517460	1	8.128						106.0543
72	Hf	Ln	1.52349997	1.58 C	8.137						105.9379
28	Ni	SKBN	1.52226880	1	8.143						105.8523
73	Ta	LA1	1.52219999	100 C	8.143						105.8475
29	Cu	SKA^4	1.52216860	1	8.144						105.8453
73	Ta	SLA^Y	1.52056540	1	8.152						105.7338
73	Ta	SLA'	1.51906230	1	8.160						105.6293
66	Dy	LG5	1.51839995	0.37 C	8.164						105.5832
75	Re	Ls	1.51780000	0.01	8.167						105.5415
73	Ta	SLAA	1.51775970	1	8.167						105.5387
69	Tm	LB6	1.51639998	1.16 C	8.175						105.4442
73	Ta	SLA^X	1.51585590	1	8.178						105.4063
68	Er	SLB14	1.51505420	1	8.182						105.3506
68	Er	LB2	1.51419997	20.05 C	8.187						105.2912
65	Tb	LG8	1.50989997	0.06 C	8.210						104.9922
64	Gd	LG11	1.50950003	0.06 C	8.212						104.9644
69	Tm	LB3	1.50660002	12.73 C	8.228						104.7627
76	Os	Lt	1.50520003	0.11 C	8.235						104.6654
65	Tb	Lv	1.50460005	0.01 C	8.239						104.6236
68	Er	SLB2^1	1.50443280	1	8.240						104.6120
28	Ni	SKB'	1.50393180	1	8.242						104.5772
65	Tb	LG6	1.50370002	0.07 C	8.244						104.5611
65	Tb	LII	1.50255950	BB	8.250						104.4817
28	Ni	SKB'	1.50212820	1	8.252						104.4518
28	Ni	KB1	1.50039995	13.58 C	8.262						104.3316
28	Ni	KB3	1.50039995	6.92 C	8.262						104.3316
78	Pt	LI	1.49969995	5.54 C	8.266						104.2829
28	Ni	SKB7	1.49882150	1	8.270						104.2218
66	Dy	L2-N3	1.49539995	0.01 C	8.289						103.9839

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
68	Er	LB10	1.49441260	0.001	8.295						103.9152
68	Er	LB7	1.49430001	0.18 C	8.296						103.9074
28	Ni	SKB"	1.49401180	1	8.297						103.8874
70	Yb	LB4	1.49160004	9.59 C	8.311						103.7197
68	Er	LB9	1.48909998	0.55 C	8.324						103.5458
28	Ni	KB5	1.48889995	0.01 C	8.326						103.5319
28	Ni	KB2	1.48860090	0.1	8.327						103.5111
71	Lu	LB17	1.48839998	0.05 C	8.328						103.4972
28	Ni	K	1.48791763	BB	8.331						103.4636
74	W	LA2	1.48769999	11.37 C	8.332						103.4485
28	Ni	SKB""	1.48699770	1	8.336						103.3996
28	Ni	SKB""	1.48589550	1	8.342						103.3230
68	Er	LB5	1.48500001	0.12 C	8.347						103.2607
68	Er	Lu	1.48459995	0.03 C	8.350						103.2329
64	Gd	LG4	1.48409998	0.85 C	8.353						103.1982
28	Ni	SKBN'	1.48379120	1	8.354						103.1767
68	Er	LIII	1.48344919	BB	8.356						103.1529
28	Ni	SKBN"	1.48178720	1	8.366						103.0373
74	W	SLAS	1.48078520	1	8.371						102.9677
72	Hf	L2-M2	1.48060000	0.01 C	8.372						102.9548
64	Gd	LI	1.48031425	BB	8.374						102.9349
28	Ni	SKBN""	1.48008370	1	8.375						102.9189
65	Tb	LG2	1.47669995	2.12 C	8.394						102.6836
74	W	LA1	1.47669995	100 C	8.394						102.6836
70	Yb	LB1	1.47599995	57.78 C	8.398						102.6349
74	W	SLA'	1.47357060	1	8.412						102.4660
76	Os	Ls	1.47350000	0.01	8.413						102.4611
66	Dy	LG1	1.47300005	10.37 C	8.415						102.4263
65	Tb	LG3	1.47210002	3.15 C	8.421						102.3637
74	W	SLAA	1.47166680	1	8.423						102.3336
73	Ta	Ln	1.47119999	1.58 C	8.426						102.3011
74	W	SLA^X	1.47016370	1	8.432						102.2291
70	Yb	LB6	1.46640003	1.17 C	8.453						101.9674
69	Tm	LB2	1.46430004	20.06 C	8.465						101.8213
77	Ir	Lt	1.46350002	0.11 C	8.470						101.7657
67	Ho	LG5	1.46200001	0.37 C	8.479						101.6614
79	Au	LI	1.45980000	5.62 C	8.492						101.5084
66	Dy	LG8	1.45280004	0.06 C	8.532						101.0217
70	Yb	LB3	1.45260000	12.79 C	8.534						101.0078
65	Tb	LG11	1.45099998	0.07 C	8.543						100.8965

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
66	Dy	Lv	1.44749999	0.01	C	8.564					100.6531
66	Dy	LG6	1.44599998	0.07	C	8.573					100.5488
66	Dy	LII	1.44494791		ABS BB	8.579					100.4757
75	Re	LA2	1.44420004	11.32	C	8.583					100.4237
69	Tm	LB7	1.44350004	0.18	C	8.587					100.3750
69	Tm	LB10	1.44100500	0.001		8.602					100.2015
71	Lu	LB4	1.44079995	9.96	C	8.604					100.1872
30	Zn	KA2	1.43929994	51.43	C	8.613					100.0829
75	Re	SLAS	1.43799890	1		8.620					99.9925
30	Zn	KA1,2	1.43680000	151.43	C	8.628					99.9091
69	Tm	LB9	1.43680000	0.58	C	8.628					99.9091
72	Hf	LB17	1.43659997	0.05	C	8.629					99.8952
30	Zn	KA1	1.43550003	100	C	8.635					99.8187
69	Tm	LB5	1.43509996	0.11	C	8.638					99.7909
69	Tm	Lu	1.43480003	0.03	C	8.640					99.7700
69	Tm	LIII	1.43368640		ABS BB	8.646					99.6926
67	Ho	L2-N3	1.43309999	0.01	C	8.650					99.6518
75	Re	LA1	1.43309999	100	C	8.650					99.6518
77	Ir	Ls	1.43238760	0.01		8.654					99.6023
30	Zn	SKA'	1.43058400	1		8.665					99.4769
73	Ta	L2-M2	1.43050003	0.01	C	8.666					99.4710
72	Hf	L1-M1	1.43030000	0.01	C	8.667					99.4571
75	Re	SLA'	1.43028330	1		8.667					99.4560
30	Zn	SKA3	1.42998270	1		8.669					99.4351
75	Re	SLA^IX	1.42968210	1		8.670					99.4142
30	Zn	SKA4	1.42847970	1		8.678					99.3305
65	Tb	LG4	1.42789996	0.78	C	8.681					99.2902
75	Re	SLA^X	1.42697670	1		8.687					99.2260
65	Tb	LI	1.42380799		ABS BB	8.706					99.0057
71	Lu	LB1	1.42379999	58.72	C	8.706					99.0051
66	Dy	LG2	1.42289996	2.17	C	8.712					98.9426
78	Pt	Lt	1.42240000	0.12	C	8.715					98.9078
80	Hg	LI	1.42180002	5.71	C	8.719					98.8661
74	W	Ln	1.42130005	1.57	C	8.722					98.8313
71	Lu	LB6	1.41919994	1.2	C	8.734					98.6853
67	Ho	SLG9	1.41886030	1		8.737					98.6617
67	Ho	LG1	1.41760004	10.56	C	8.744					98.5740
70	Yb	SLB14	1.41665590	1		8.750					98.5084
70	Yb	SLB14	1.41665590	1		8.750					98.5084
66	Dy	LG3	1.41659999	3.19	C	8.751					98.5045

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
70	Yb	SLB14	1.41595450	1	8.755						98.4596
70	Yb	LB2	1.41579998	20.17 C	8.755						98.4489
70	Yb	SLB2^1	1.40873990	1	8.799						97.9579
29	Cu	SKBN	1.40853950	1	8.801						97.9440
29	Cu	SKBN	1.40773790	1	8.806						97.8882
68	Er	LG5	1.40699995	0.38 C	8.810						97.8369
76	Os	LA2	1.40250003	11.37 C	8.839						97.5240
29	Cu	SKB1^4	1.40242720	1	8.839						97.5190
71	Lu	LB3	1.40170002	13.1 C	8.844						97.4684
67	Ho	LG8	1.39849997	0.06 C	8.864						97.2459
29	Cu	SKB	1.39841910	1	8.864						97.2403
66	Dy	LG11	1.39579999	0.07 C	8.881						97.0581
70	Yb	LB7	1.39510000	0.19 C	8.885						97.0095
29	Cu	SKB'	1.39350920	1	8.896						96.8988
67	Ho	Lv	1.39349997	0.01 C	8.896						96.8982
67	Ho	LG6	1.39260006	0.07 C	8.901						96.8356
29	Cu	KB1	1.39240003	13.41 C	8.903						96.8217
29	Cu	KB3	1.39240003	6.84 C	8.903						96.8217
72	Hf	LB4	1.39240003	10.19 C	8.903						96.8217
76	Os	LA1	1.39150000	100 C	8.908						96.7591
70	Yb	LB10	1.39140500	0.001	8.909						96.7525
29	Cu	SKB10	1.39130480	1	8.910						96.7456
67	Ho	LII	ABS	1.39031151	BB	8.916					96.6765
70	Yb	L3-O2	1.38970150	0.01	8.920						96.6341
70	Yb	Lu	1.38740003	0.04 C	8.935						96.4740
29	Cu	SKB7	1.38729670	1	8.935						96.4669
70	Yb	LB5	1.38709998	0.11 C	8.937						96.4532
70	Yb	LB9	1.38709998	0.61 C	8.937						96.4532
73	Ta	LB17	1.38670003	0.05 C	8.939						96.4254
70	Yb	LIII	ABS	1.38630082	BB	8.942					96.3976
76	Os	SLA^X	1.38589390	1	8.944						96.3693
68	Er	L2-N3	1.38510001	0.01 C	8.950						96.3141
81	Tl	LI	1.38499999	5.78 C	8.950						96.3071
29	Cu	SKB''	1.38499200	1	8.950						96.3066
79	Au	Lt	1.38360000	0.12 C	8.959						96.2098
29	Cu	SKB6	1.38298800	1	8.963						96.1672
29	Cu	KB5	1.38119996	0.02 C	8.975						96.0429
29	Cu	KB2	1.38098400	0.1	8.976						96.0279
29	Cu	K	ABS	1.38085066	BB	8.977					96.0186
29	Cu	SKB'''	1.37968130	1	8.985						95.9373

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
29	Cu	SKB'''	1.37887970	1	8.990						95.8816
29	Cu	SKBN'	1.37697590	1	9.002						95.7492
29	Cu	SKBN''	1.37557310	1	9.012						95.6516
66	Dy	LG4	1.37479997	0.79 C	9.017						95.5979
72	Hf	LB1	1.37440002	57.79 C	9.019						95.5701
72	Hf	LB6	1.37440002	1.22 C	9.019						95.5701
75	Re	Ln	1.37360001	1.51 C	9.024						95.5144
29	Cu	SKBN'''	1.37156500	1	9.038						95.3729
71	Lu	LB15	1.37146480	0.001	9.039						95.3660
66	Dy	LI	1.37063831	BB	9.044						95.3085
71	Lu	LB2	1.37049997	20.36 C	9.045						95.2989
67	Ho	LG2	1.37010002	2.21 C	9.048						95.2711
29	Cu	SKBN^4	1.36865910	1	9.057						95.1709
68	Er	SLG9	1.36555290	1	9.078						94.9549
67	Ho	LG3	1.36450005	3.21 C	9.085						94.8817
68	Er	LG1	1.36440003	10.61 C	9.085						94.8747
77	Ir	LA2	1.36269999	11.28 C	9.097						94.7565
71	Lu	SLB2^1	1.35954070	1	9.118						94.5368
72	Hf	L3-N2	1.35873910	0.01	9.123						94.4811
69	Tm	LG5	1.35599995	0.38 C	9.142						94.2906
72	Hf	LB3	1.35319996	13.16 C	9.161						94.0959
77	Ir	LA1	1.35140002	100 C	9.173						93.9707
79	Au	Ls	1.35132420	0.01	9.173						93.9655
72	Hf	L3-N3	1.35042240	0.01	9.179						93.9028
82	Pb	LI	1.35010004	5.86 C	9.182						93.8804
71	Lu	LB7	1.34969997	0.19 C	9.184						93.8525
67	Ho	LG11	1.34879994	0.07 C	9.190						93.7899
80	Hg	Lt	1.34630001	0.12 C	9.207						93.6161
68	Er	LG8	1.34599996	0.06 C	9.210						93.5952
73	Ta	LB4	1.34599996	10.45 C	9.210						93.5952
77	Ir	SLA^X	1.34591330	1	9.210						93.5892
71	Lu	L3-O2	1.34511160	0.01	9.216						93.5335
31	Ga	KA2	1.34430003	51.34 C	9.221						93.4770
71	Lu	LB10	1.34300740	0.001	9.230						93.3872
68	Er	Lv	1.34249997	0.01 C	9.234						93.3519
71	Lu	Lu	1.34239995	0.04 C	9.234						93.3449
71	Lu	LB5	1.34210002	0.1 C	9.236						93.3241
31	Ga	KA1,2	1.34159994	151.34 C	9.240						93.2893
71	Lu	LIII	1.34123603	BB	9.242						93.2640
31	Ga	KA1	1.34029996	100 C	9.249						93.1989

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
68	Er	LG6	1.33990002	0.06 C	9.251						93.1711
71	Lu	LB9	1.33889997	0.66 C	9.258						93.1015
74	W	LB17	1.33889997	0.05 C	9.258						93.1015
31	Ga	SKA2'	1.33839810	1	9.262						93.0666
68	Er	LII	1.33831158	BB	9.262						93.0606
31	Ga	SKA1'	1.33729590	1	9.269						92.9900
75	Re	L2-M2	1.33659995	0.01 C	9.274						92.9416
74	W	L1-M1	1.33650005	0.01 C	9.275						92.9347
31	Ga	SKA'	1.33609350	1	9.278						92.9064
69	Tm	L2-N3	1.33570004	0.01 C	9.281						92.8790
31	Ga	SKA3	1.33529190	1	9.283						92.8507
31	Ga	SKA3'	1.33459040	1	9.288						92.8019
31	Ga	SKA4	1.33378880	1	9.294						92.7461
73	Ta	LB6	1.33109999	1.23 C	9.313						92.5592
76	Os	Ln	1.32809997	1.48 C	9.334						92.3506
72	Hf	LB15	1.32777670	0.001	9.336						92.3281
73	Ta	LB1	1.32710004	57.81 C	9.341						92.2810
72	Hf	LB2	1.32669997	20.48 C	9.343						92.2532
78	Pt	LA2	1.32459998	11.39 C	9.358						92.1072
67	Ho	LG4	1.32270002	0.8 C	9.372						91.9751
68	Er	LG2	1.32120001	2.25 C	9.382						91.8708
67	Ho	L1-O4	1.32080000	0.01	9.385						91.8429
78	Pt	SLAS	1.31996090	1	9.391						91.7846
67	Ho	LI	1.31980584	BB	9.392						91.7738
72	Hf	SLB2^1	1.31945990	1	9.395						91.7498
73	Ta	L2-M5	1.31900001	0.01 C	9.398						91.7178
72	Hf	SLB2^2	1.31695490	1	9.413						91.5756
73	Ta	L3-N2	1.31665430	0.01	9.415						91.5547
83	Bi	LI	1.31630003	6 C	9.417						91.5300
69	Tm	LG1	1.31560004	10.77 C	9.422						91.4814
68	Er	LG3	1.31490004	3.24 C	9.427						91.4327
78	Pt	SLA3^Z	1.31475040	1	9.428						91.4223
78	Pt	SLA2^Z	1.31374840	1	9.436						91.3526
78	Pt	LA1	1.31320000	100 C	9.440						91.3145
30	Zn	SKBN	1.31134360	1	9.453						91.1854
78	Pt	SLA^Y	1.31134360	1	9.453						91.1854
81	Tl	Lt	1.31089997	0.13 C	9.456						91.1545
78	Pt	SLA'	1.31054200	1	9.459						91.1296
73	Ta	L3-N3	1.30853790	0.01	9.473						90.9903
78	Pt	SLA^X	1.30783650	1	9.478						90.9415

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
73	Ta	LB3	1.30700004	13.33 C	9.484						90.8834
70	Yb	LG5	1.30659997	0.38 C	9.487						90.8555
72	Hf	LB7	1.30589998	0.2 C	9.492						90.8069
78	Pt	SLAA	1.30543170	1	9.496						90.7743
72	Hf	L3-O2	1.30192460	0.01	9.521						90.5304
74	W	LB4	1.30180001	10.75 C	9.522						90.5218
72	Hf	L3-O3	1.30082240	0.01	9.529						90.4538
72	Hf	Lu	1.29929996	0.05 C	9.541						90.3479
72	Hf	LB7'	1.29901870	0.01	9.543						90.3284
72	Hf	LB10	1.29811690	0.001	9.549						90.2657
72	Hf	LB5	1.29779994	0.25 C	9.552						90.2436
72	Hf	LIII	1.29682136	BB	9.559						90.1756
69	Tm	LG8	1.29649997	0.06 C	9.561						90.1532
30	Zn	SKB'	1.29641350	1	9.562						90.1472
30	Zn	KB1	1.29550004	13.71 C	9.569						90.0837
30	Zn	KB3	1.29550004	7.01 C	9.569						90.0837
30	Zn	SKB10	1.29460980	1	9.575						90.0218
68	Er	LG11	1.29439998	0.08 C	9.577						90.0072
72	Hf	LB9	1.29340005	0.69 C	9.584						89.9377
76	Os	L2-M2	1.29340005	0.01 C	9.584						89.9377
69	Tm	Lv	1.29310000	0.02 C	9.586						89.9168
75	Re	LB17	1.29289997	0.05 C	9.588						89.9029
69	Tm	LG6	1.29069996	0.06 C	9.604						89.7499
74	W	LB6	1.29009998	1.26 C	9.609						89.7082
69	Tm	LII	1.28924290	BB	9.615						89.6486
79	Au	LA2	1.28799999	11.39 C	9.624						89.5622
70	Yb	L2-N3	1.28729999	0.01 C	9.629						89.5135
30	Zn	SKB''	1.28719490	1	9.630						89.5062
73	Ta	LB15	1.28609270	0.001	9.638						89.4295
30	Zn	KB5	1.28499997	0.02 C	9.647						89.3536
73	Ta	LB2	1.28489995	20.76 C	9.647						89.3466
77	Ir	Ln	1.28489995	1.43 C	9.647						89.3466
30	Zn	KB2	1.28368780	0.1	9.657						89.2623
30	Zn	K	1.28367672	BB	9.657						89.2615
79	Au	SLAS	1.28338720	1	9.659						89.2414
84	Po	LI	1.28320003	6.07 C	9.660						89.2284
74	W	LB1	1.28199995	57.74 C	9.669						89.1450
30	Zn	SKB3'	1.28158360	1	9.672						89.1160
79	Au	SLA3^Z	1.27807650	1	9.699						88.8721
81	Tl	Ls	1.27807650	0.01	9.699						88.8721

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
73	Ta	SLB2^1	1.27797630	1	9.700						88.8652
79	Au	SLA2^Z	1.27717470	1	9.706						88.8094
82	Pb	Lt	1.27680004	0.13 C	9.709						88.7834
79	Au	LA1	1.27660000	100 C	9.710						88.7695
74	W	L3-N2	1.27647330	0.01	9.711						88.7607
73	Ta	SLB2^2	1.27597230	1	9.715						88.7258
68	Er	LG4	1.27540004	0.81 C	9.719						88.6860
79	Au	SLA^Y	1.27476980	1	9.724						88.6422
69	Tm	LG2	1.27450001	2.31 C	9.726						88.6234
79	Au	SLA'	1.27406840	1	9.729						88.5934
79	Au	SLA^IX	1.27296620	1	9.738						88.5168
74	W	L2-M5	1.27276580	0.01	9.739						88.5028
68	Er	LI	1.27147355	BB	9.749						88.4130
79	Au	SLA^X	1.27126280	1	9.751						88.3983
73	Ta	SLB2^3	1.26996010	1	9.761						88.3078
70	Yb	SLG9	1.26835690	1	9.773						88.1963
79	Au	SLAA	1.26835690	1	9.773						88.1963
69	Tm	LG3	1.26800001	3.29 C	9.776						88.1715
70	Yb	LG1	1.26800001	10.91 C	9.776						88.1715
74	W	L3-N3	1.26715450	0.01	9.783						88.1127
73	Ta	LB7	1.26409996	0.21 C	9.806						87.9003
80	Hg	SLAO	1.26354720	1	9.810						87.8618
74	W	LB3	1.26289999	13.51 C	9.816						87.8168
73	Ta	L3-O2	1.26024060	0.01	9.836						87.6319
71	Lu	LG5	1.25979996	0.39 C	9.840						87.6013
75	Re	LB4	1.25929999	9.87 C	9.844						87.5665
73	Ta	L3-O3	1.25923850	0.01	9.844						87.5622
32	Ge	KA2	1.25820005	51.5 C	9.852						87.4900
73	Ta	Lu	1.25810003	0.06 C	9.853						87.4831
73	Ta	LB5	1.25580001	0.45 C	9.871						87.3231
32	Ge	KA1,2	1.25549996	151.5 C	9.873						87.3023
73	Ta	LIII	1.25477123	BB	9.879						87.2516
32	Ge	KA1	1.25419998	100 C	9.884						87.2119
85	At	LI	1.25399995	6.18 C	9.885						87.1980
73	Ta	LB10	1.25372740	0.001	9.887						87.1790
80	Hg	LA2	1.25279999	11.4 C	9.895						87.1145
32	Ge	SKA2'	1.25252500	1	9.897						87.0954
32	Ge	SKA1'	1.25142280	1	9.906						87.0187
75	Re	LB6	1.25119996	1.29 C	9.907						87.0033
32	Ge	SKA'	1.25022040	1	9.915						86.9351

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
32	Ge	SKA3	1.24971930	1	9.919						86.9003
73	Ta	LB9	1.24960005	0.73 C	9.920						86.8920
70	Yb	LG8	1.24940002	0.06 C	9.922						86.8781
76	Os	LB17	1.24820006	0.05 C	9.931						86.7946
32	Ge	SKA4	1.24811610	1	9.932						86.7888
80	Hg	SLAS	1.24811610	1	9.932						86.7888
69	Tm	LG11	1.24779999	0.08 C	9.934						86.7668
74	W	LB15	1.24631250	0.001	9.946						86.6634
70	Yb	Lv	1.24619997	0.02 C	9.947						86.6556
70	Yb	L2-O2	1.24521030	0.01	9.955						86.5868
74	W	LB2	1.24500000	20.97 C	9.957						86.5721
82	Pb	Ls	1.24380740	0.01	9.966						86.4892
83	Bi	Lt	1.24370003	0.13 C	9.967						86.4817
78	Pt	Ln	1.24319994	1.4 C	9.971						86.4470
80	Hg	SLA3^Z	1.24290560	1	9.973						86.4265
70	Yb	LG6	1.24290001	0.06 C	9.973						86.4261
70	Yb	LII	1.24256078	BB	9.976						86.4025
80	Hg	SLA1^Z	1.24170320	1	9.983						86.3429
80	Hg	LA1	1.24140000	100 C	9.986						86.3218
71	Lu	L2-N3	1.24109995	0.01 C	9.988						86.3009
80	Hg	SLA^Y	1.23939850	1	10.002						86.1826
75	Re	LB1	1.23880005	55.1 C	10.006						86.1410
74	W	SLB2^1	1.23869710	1	10.007						86.1339
80	Hg	SLA^IX	1.23789550	1	10.014						86.0781
80	Hg	SLA^X	1.23609190	1	10.028						85.9527
74	W	SLB2^2	1.23569110	1	10.032						85.9248
80	Hg	SLAA	1.23288540	1	10.054						85.7297
74	W	SLB2^3	1.23048060	1	10.074						85.5625
75	Re	L2-M5	1.23048060	0.01	10.074						85.5625
69	Tm	LG4	1.22959995	0.81 C	10.081						85.5013
70	Yb	LG2	1.22899997	2.35 C	10.086						85.4596
75	Re	L3-N3	1.22827610	0.01	10.092						85.4092
69	Tm	L1-O4	1.22630000	0.01	10.108						85.2718
74	W	SLB2^4	1.22597150	1	10.111						85.2490
69	Tm	LI	1.22567099	BB	10.114						85.2281
74	W	LB7	1.22430003	0.22 C	10.125						85.1327
31	Ga	SKBN	1.22376700	1	10.129						85.0957
86	Rn	LI	1.22329998	6.25 C	10.133						85.0632
70	Yb	LG3	1.22259998	3.31 C	10.139						85.0145
71	Lu	LG1	1.22249997	11.21 C	10.140						85.0076

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
74	W	L3-O2	1.22106160	0.01	10.152						84.9076
75	Re	LB3	1.22049999	12.22 C	10.156						84.8685
81	Tl	LA2	1.21899998	11.38 C	10.169						84.7642
74	W	Lu	1.21879995	0.06 C	10.171						84.7503
74	W	LB7'	1.21875690	0.01	10.171						84.7473
76	Os	LB4	1.21860003	8.37 C	10.172						84.7364
72	Hf	LG5	1.21560001	0.39 C	10.197						84.5278
74	W	LB5	1.21560001	0.66 C	10.197						84.5278
74	W	LIII	1.21473136	ABS	10.205						84.4674
81	Tl	SLAS	1.21464860	1	10.205						84.4616
71	Lu	SLG1'	1.21434800	1	10.208						84.4407
76	Os	LB6	1.21370006	1.31 C	10.213						84.3957
84	Po	Ls	1.21249998	0.13 C	10.224						84.3122
74	W	LB10	1.21224380	0.001	10.226						84.2944
83	Bi	Ls	1.21064060	0.01	10.239						84.1829
31	Ga	SKB2'	1.21044020	1	10.241						84.1690
81	Tl	LA1	1.20869994	100 C	10.256						84.0480
31	Ga	SKB'	1.20853630	1	10.257						84.0366
31	Ga	KB3	1.20850003	7.17 C	10.257						84.0341
75	Re	LB15	1.20813550	0.001	10.260						84.0087
31	Ga	KB1	1.20799994	14.06 C	10.262						83.9993
74	W	LB9	1.20790005	0.77 C	10.262						83.9924
77	Ir	LB17	1.20710003	0.05 C	10.269						83.9367
31	Ga	SKB10	1.20703330	1	10.270						83.9321
75	Re	LB2	1.20690000	21.22 C	10.271						83.9228
81	Tl	SLA'	1.20522970	1	10.285						83.8067
71	Lu	LG8	1.20490003	0.06 C	10.288						83.7837
81	Tl	SLA^IX	1.20412740	1	10.295						83.7300
70	Yb	LG11	1.20369995	0.08 C	10.298						83.7003
31	Ga	SKB7	1.20302520	1	10.304						83.6534
79	Au	Ln	1.20290005	1.38 C	10.305						83.6447
81	Tl	SLA^X	1.20242400	1	10.309						83.6116
71	Lu	Lv	1.20179999	0.02 C	10.315						83.5682
71	Lu	L2-O2	1.20132180	0.01	10.319						83.5349
76	Os	L3-N2	1.20090000	0.01	10.322						83.5056
75	Re	SLB2^1	1.20062040	1	10.325						83.4862
81	Tl	SLAA	1.19921750	1	10.337						83.3886
31	Ga	SKB9	1.19901710	1	10.338						83.3747
71	Lu	LG6	1.19889998	0.05 C	10.339						83.3665
31	Ga	KB5	1.19830000	0.02 C	10.345						83.3248

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
71	Lu	LII	ABS	1.19808670	BB	10.346					83.3100
75	Re	SLB2^2		1.19791490	1	10.348					83.2980
76	Os	LB1		1.19739997	54.01 C	10.352					83.2622
72	Hf	L2-N3		1.19719994	0.01 C	10.354					83.2483
31	Ga	KB2		1.19620001	0.16 C	10.363					83.1788
31	Ga	K	ABS	1.19594872	BB	10.365					83.1613
87	Fr	LI		1.19490004	6.34 C	10.374					83.0884
31	Ga	SKB'''		1.19460820	1	10.377					83.0681
75	Re	SLB2^3		1.19330560	1	10.388					82.9775
31	Ga	SKB'''		1.19320540	1	10.389					82.9705
31	Ga	SKB'''		1.19140180	1	10.405					82.8451
76	Os	L2-M5		1.18980000	0.01	10.419					82.7338
75	Re	SLB2^4		1.18859610	1	10.429					82.6500
70	Yb	L1-O1		1.18849590	0.01	10.430					82.6431
82	Pb	LA2		1.18659997	11.31 C	10.447					82.5112
75	RF	LB7		1.18630004	0.23 C	10.449					82.4904
70	Yb	LG4		1.18550003	0.82 C	10.456					82.4348
71	Lu	LG2		1.18550003	2.46 C	10.456					82.4348
70	Yb	L1-O4		1.18258400	0.01	10.482					82.2320
82	Pb	SLAS		1.18238360	1	10.484					82.2180
70	Yb	LI	ABS	1.18234284	BB	10.484					82.2152
85	At	Ls		1.18229997	0.14 C	10.485					82.2122
75	Re	Lu		1.18169999	0.06 C	10.490					82.1705
33	As	KA2		1.18009996	51.53 C	10.504					82.0593
71	Lu	LG3		1.17980003	3.42 C	10.507					82.0384
76	Os	LB3		1.17980003	10.24 C	10.507					82.0384
77	Ir	LB4		1.17980003	7.27 C	10.507					82.0384
72	Hf	LG1		1.17920005	11.21 C	10.512					81.9967
77	Ir	LB6		1.17820001	1.33 C	10.521					81.9271
72	Hf	L2-N5		1.17777430	0.01	10.525					81.8975
33	As	KA1,2		1.17739999	151.53 C	10.528					81.8715
75	Re	LB5		1.17739999	0.9 C	10.528					81.8715
78	Pt	L1-M1		1.17737350	0.01	10.529					81.8697
75	Re	LIII	ABS	1.17685495	BB	10.533					81.8336
33	As	KA1		1.17610002	100 C	10.540					81.7811
82	Pb	SLA1^Z		1.17577030	1	10.543					81.7582
82	Pb	LA1		1.17519999	100 C	10.548					81.7185
73	Ta	LG5		1.17309999	0.39 C	10.567					81.5725
82	Pb	SLA^Y		1.17306480	1	10.567					81.5701
72	Hf	SLG1'		1.17286440	1	10.569					81.5561

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
33	As	SKA3	1.17206280	1	10.576						81.5004
75	Re	LB10	1.17206280	0.001	10.576						81.5004
76	Os	LB15	1.17156180	0.001	10.581						81.4655
82	Pb	SLA^IX	1.17156180	1	10.581						81.4655
33	As	SKA3'	1.17146160	1	10.582						81.4586
79	Au	L2-M2	1.17080000	0.01	10.588						81.4126
82	Pb	SLA	1.17076020	1	10.588						81.4098
33	As	SKA4	1.17055980	1	10.590						81.3959
76	Os	LB2	1.17019999	21.46 C	10.593						81.3708
82	Pb	SLAA	1.16945750	1	10.600						81.3192
75	Re	LB9	1.16799998	0.73 C	10.613						81.2179
82	Pb	SLAA	1.16795450	1	10.613						81.2147
88	Ra	LI	1.16740000	6.43 C	10.618						81.1761
82	Pb	SLAA	1.16715290	1	10.621						81.1590
78	Pt	LB17	1.16690004	0.05 C	10.623						81.1414
75	Re	SLB2^5	1.16655170	1	10.626						81.1172
77	Ir	L3-N2	1.16514890	0.01	10.639						81.0196
80	Hg	Ln	1.16429996	1.36 C	10.647						80.9606
76	Os	SLB2^1	1.16364580	1	10.653						80.9151
71	Lu	L1-N4	1.16224300	0.01	10.666						80.8176
71	Lu	LG11	1.16180003	0.09 C	10.670						80.7868
72	Hf	LG8	1.16149998	0.06 C	10.672						80.7659
76	Os	SLB2^2	1.16144140	1	10.673						80.7618
75	Re	SLB2^7	1.16084020	1	10.678						80.7200
73	Ta	L2-N2	1.16000000	0.01	10.686						80.6616
72	Hf	L2-O2	1.15863570	0.01	10.699						80.5667
72	Hf	Lv	1.15849996	0.02 C	10.700						80.5573
72	Hf	LG8'	1.15833510	0.001	10.702						80.5458
77	Ir	LB1	1.15810001	52.1 C	10.704						80.5295
72	Hf	L2-O3	1.15763370	0.01	10.708						80.4970
77	Ir	L3-N3	1.15593030	0.01	10.724						80.3786
83	Bi	LA2	1.15559995	11.44 C	10.727						80.3556
73	Ta	L2-N3	1.15550005	0.01 C	10.728						80.3487
72	Hf	LG6	1.15540004	0.14 C	10.729						80.3417
72	Hf	LII	1.15448908	BB	10.737						80.2784
86	Rn	Ls	1.15320003	0.14 C	10.749						80.1887
83	Bi	SLAS	1.15152140	1	10.765						80.0720
76	Os	LB7	1.14960003	0.24 C	10.783						79.9384
77	Ir	L2-M5	1.14871570	0.01	10.791						79.8769
76	Os	Lu	1.14549994	0.07 C	10.821						79.6533

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
72	Hf	LG2	1.14460003	2.52 C	10.830						79.5907
83	Bi	SLA1^Z	1.14450720	1	10.831						79.5843
83	Bi	LA1	1.14409995	100 C	10.835						79.5560
71	Lu	LG4	1.14370000	0.86 C	10.839						79.5281
78	Pt	LB6	1.14370000	1.36 C	10.839						79.5281
78	Pt	LB4	1.14250004	6.62 C	10.850						79.4447
83	Bi	SLA'	1.14180180	1	10.857						79.3962
77	Ir	LB3	1.14100003	8.74 C	10.864						79.3404
89	Ac	LI	1.14090002	6.55 C	10.865						79.3335
76	Os	LB5	1.14069998	1.18 C	10.867						79.3195
71	Lu	LI	1.14057624	BB	10.868						79.3109
76	Os	LIII	1.14052378	BB	10.869						79.3073
83	Bi	SLA^IX	1.14049920	1	10.869						79.3056
83	Bi	SLA^X	1.13909630	1	10.882						79.2080
72	Hf	LG3	1.13859999	3.47 C	10.887						79.1735
73	Ta	LG1	1.13820004	11.34 C	10.891						79.1457
77	Ir	LB15	1.13709230	0.001	10.901						79.0687
73	Ta	L2-N5	1.13679170	0.01	10.904						79.0478
32	Ge	SKBN	1.13599010	1	10.912						78.9920
77	Ir	LB2	1.13559997	21.6 C	10.916						78.9649
79	Au	L1-M1	1.13528870	0.01	10.919						78.9433
83	Bi	SLAA	1.13528870	1	10.919						78.9433
76	Os	LB10	1.13348500	0.001	10.936						78.8178
74	W	LG5	1.13259995	0.39 C	10.945						78.7563
88	Ra	Lt	1.13238280	0.01	10.947						78.7412
72	Hf	SLG2'	1.13188180	1	10.952						78.7064
73	Ta	SLG1'	1.13168140	1	10.954						78.6924
32	Ge	SKB2'	1.13138080	1	10.957						78.6715
78	Pt	L3-N2	1.13138080	0.01	10.957						78.6715
76	Os	SLB5^2	1.13108020	1	10.959						78.6506
77	Ir	SLB2^1	1.12977760	1	10.972						78.5600
32	Ge	KB3	1.12960005	7.33 C	10.974						78.5477
76	Os	LB9	1.12940001	0.64 C	10.976						78.5338
32	Ge	KB1	1.12919998	14.36 C	10.978						78.5199
79	Au	LB17	1.12810004	0.05 C	10.988						78.4434
32	Ge	SKB10	1.12807410	1	10.989						78.4416
81	Tl	Ln	1.12790000	1.34 C	10.990						78.4295
77	Ir	SLB2^2	1.12767330	1	10.993						78.4137
72	Hf	L1-N1	1.12667130	0.01	11.002						78.3440
84	Po	LA2	1.12570000	11.36 C	11.012						78.2765

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
87	Fr	Ls	1.12520003	0.14 C	11.017						78.2417
32	Ge	SKB7	1.12456700	1	11.023						78.1977
32	Ge	SKB"	1.12306400	1	11.038						78.0932
77	Ir	SLB2^3	1.12306400	1	11.038						78.0932
72	Hf	L1-N4	1.12246280	0.01	11.044						78.0514
78	Pt	L3-N3	1.12236260	0.01	11.045						78.0444
72	Hf	LG11	1.12210000	0.09 C	11.047						78.0262
74	W	L2-N2	1.12180000	0.01	11.050						78.0053
73	Ta	LG8	1.12070000	0.06 C	11.061						77.9288
32	Ge	SKB9	1.12045880	1	11.063						77.9121
78	Pt	LB1	1.12010002	51.1 C	11.067						77.8871
32	Ge	KB5	1.11969995	0.02 C	11.071						77.8593
32	Ge	SKB8	1.11825430	1	11.085						77.7588
73	Ta	L2-O2	1.11785350	0.01	11.089						77.7309
32	Ge	KB2	1.11699998	0.47 C	11.098						77.6715
73	Ta	L2-O3	1.11685150	0.01	11.099						77.6612
32	Ge	K	1.11667192	ABS	11.101						77.6487
73	Ta	Lv	1.11590004	0.02 C	11.109						77.5951
73	Ta	LG8'	1.11574930	0.001	11.110						77.5846
32	Ge	SKB'''	1.11534850	1	11.114						77.5567
90	Th	LI	1.11520004	6.71 C	11.115						77.5464
73	Ta	L1-N1	1.11514810	0.01	11.116						77.5428
74	W	L2-N3	1.11510003	0.01 C	11.116						77.5394
77	Ir	LB7	1.11500001	0.25 C	11.117						77.5325
32	Ge	SKB'''	1.11424620	1	11.125						77.4801
73	Ta	LG6	1.11399996	0.25 C	11.127						77.4629
84	Po	LA1	1.11399996	100 C	11.127						77.4629
73	Ta	LII	1.11336285	ABS	11.134						77.4186
77	Ir	Lu	1.11160004	0.07 C	11.151						77.2961
77	Ir	LB7'	1.11154080	0.01	11.152						77.2919
79	Au	LB6	1.11109996	1.39 C	11.157						77.2613
77	Ir	L3-O2	1.10953670	0.01	11.172						77.1526
34	Se	KA2	1.10909998	51.6 C	11.177						77.1222
79	Au	LB4	1.10669994	5.94 C	11.201						76.9553
72	Hf	L1-O1	1.10663090	0.01	11.202						76.9505
34	Se	KA1,2	1.10640001	151.6 C	11.204						76.9345
77	Ir	LB5	1.10609996	1.65 C	11.207						76.9136
77	Ir	LIII	1.10551038	ABS	11.213						76.8726
73	Ta	LG2	1.10549998	2.61 C	11.213						76.8719
34	Se	KA1	1.10500002	100 C	11.218						76.8371

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
72	Hf	LG4'	1.10372500	0.01	11.231						76.7485
78	Pt	LB3	1.10370004	7.83 C	11.231						76.7467
72	Hf	LG4	1.10350001	0.89 C	11.233						76.7328
73	Ta	SLG2'	1.10252260	1	11.243						76.6648
78	Pt	LB2	1.10230005	21.83 C	11.246						76.6494
34	Se	SKA3	1.10111980	1	11.258						76.5673
72	Hf	L1-O4	1.10081920	0.01	11.261						76.5464
34	Se	SKA3'	1.10071900	1	11.262						76.5394
72	Hf	LI	1.10006654	BB	11.268						76.4941
34	Se	SKA4	1.10001760	1	11.269						76.4907
81	Tl	L2-M2	1.09971700	0.01	11.272						76.4698
79	Au	L3-N2	1.09961670	0.01	11.273						76.4628
73	Ta	LG3	1.09949994	3.54 C	11.274						76.4547
77	Ir	SLB5^1	1.09901550	1	11.279						76.4210
74	W	LG1	1.09870005	11.39 C	11.282						76.3990
88	Ra	Ls	1.09819996	0.15 C	11.288						76.3643
77	Ir	LB10	1.09701150	0.001	11.300						76.2816
85	At	LA2	1.09689999	11.41 C	11.301						76.2739
78	Pt	SLB2^1	1.09661070	1	11.304						76.2538
78	Pt	SLB2^2	1.09510770	1	11.319						76.1492
75	Re	LG5	1.09410000	0.38 C	11.330						76.0792
77	Ir	SLB2^7	1.09370480	1	11.334						76.0517
73	Ta	SLG2"	1.09360460	1	11.335						76.0447
77	Ir	LB9	1.09280002	0.57 C	11.343						75.9888
82	Pb	Ln	1.09259999	1.32 C	11.345						75.9749
80	Hg	LB17	1.09179997	0.05 C	11.354						75.9192
91	Pa	LI	1.09099996	6.82 C	11.362						75.8636
79	Au	L3-N3	1.09029800	0.01	11.369						75.8148
78	Pt	SLB2^3	1.08999740	1	11.373						75.7939
78	Pt	SLB2^4	1.08799330	1	11.393						75.6545
85	At	LA1	1.08519995	100 C	11.423						75.4603
75	Re	L2-N2	1.08390000	0.01	11.436						75.3699
73	Ta	L1-N4	1.08378480	0.01	11.438						75.3619
79	Au	LB1	1.08369994	50.19 C	11.439						75.3560
73	Ta	LG11	1.08319998	0.1 C	11.444						75.3212
78	Pt	LB7	1.08190000	0.26 C	11.458						75.2308
74	W	LG8	1.08130002	0.06 C	11.464						75.1891
80	Hg	LB6	1.08000004	1.41 C	11.478						75.0987
90	Th	Lt	1.07997720	0.01	11.478						75.0971
78	Pt	Lu	1.07910001	0.08 C	11.487						75.0361

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
74	W	L2-O3	1.07887490	0.01	11.490						75.0205
78	Pt	LB7'	1.07887490	0.01	11.490						75.0205
74	W	Lv	1.07729995	0.02 C	11.507						74.9110
75	Re	L2-N3	1.07690001	0.01 C	11.511						74.8832
78	Pt	L3-O2	1.07606930	0.01	11.520						74.8254
79	Au	L2-M5	1.07576870	0.01	11.523						74.8045
74	W	LG6	1.07459998	0.37 C	11.535						74.7232
74	W	LII	1.07402287	BB	11.542						74.6831
78	Pt	LB5	1.07260001	1.87 C	11.557						74.5842
80	Hg	LB4	1.07239997	5.66 C	11.559						74.5702
89	Ac	Ls	1.07219994	0.15 C	11.561						74.5563
78	Pt	LIII	1.07219316	BB	11.561						74.5559
79	Au	LB15	1.07186080	0.001	11.565						74.5327
78	Pt	SLB5^1	1.07105920	1	11.574						74.4770
79	Au	LB2	1.07050002	21.95 C	11.580						74.4381
78	Pt	SLB5^2	1.06995700	1	11.586						74.4004
86	Rn	LA2	1.06920004	11.39 C	11.594						74.3477
78	Pt	SLB5^3	1.06835370	1	11.603						74.2889
74	W	LG2	1.06819999	2.7 C	11.605						74.2782
79	Au	LB3	1.06809998	6.9 C	11.606						74.2712
78	Pt	SLB2^5	1.06785270	1	11.608						74.2540
73	Ta	L1-O1	1.06765230	0.01	11.611						74.2401
92	U	LI	1.06729996	6.9 C	11.614						74.2156
78	Pt	SLB2^6	1.06614930	1	11.627						74.1356
74	W	SLG2'	1.06564830	1	11.632						74.1008
73	Ta	LG4'	1.06534770	0.01	11.636						74.0799
73	Ta	LG4	1.06519997	0.92 C	11.637						74.0696
79	Au	SLB2^1	1.06504710	1	11.639						74.0590
82	Pb	L2-M2	1.06440000	0.01	11.646						74.0140
78	Pt	SLB2^6	1.06414520	1	11.649						73.9962
73	Ta	L1-N6	1.06354400	0.01	11.655						73.9544
79	Au	SLB2^2	1.06344380	1	11.656						73.9475
74	W	LG3	1.06219995	3.62 C	11.670						73.8610
73	Ta	L1-O4	1.06184060	0.01	11.674						73.8360
78	Pt	LB10	1.06184060	0.001	11.674						73.8360
73	Ta	LI	1.06138082	BB	11.679						73.8040
75	Re	LG1	1.06120002	11.08 C	11.681						73.7914
33	As	SKBN	1.06113920	1	11.682						73.7872
78	Pt	SLB2^7	1.05913510	1	11.704						73.6479
83	Bi	Ln	1.05879998	1.34 C	11.708						73.6246

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
79	Au	SLB2^3	1.05873430	1	11.708						73.6200
80	Hg	L3-N3	1.05853390	0.01	11.711						73.6061
33	As	KB3	1.05799997	7.5 C	11.716						73.5689
78	Pt	LB9	1.05760002	0.53 C	11.721						73.5411
33	As	KB1	1.05750000	14.59 C	11.722						73.5342
86	Rn	LA1	1.05739999	100 C	11.723						73.5272
76	Os	LG5	1.05710006	0.37 C	11.726						73.5063
81	Tl	LB17	1.05620003	0.05 C	11.736						73.4438
75	Re	SLG1'	1.05552790	1	11.744						73.3970
79	Au	SLB2^4	1.05482650	1	11.752						73.3483
33	As	SKB7	1.05412500	1	11.760						73.2995
33	As	SKB6	1.05011700	1	11.804						73.0208
79	Au	LB7	1.04990005	0.27 C	11.807						73.0057
81	Tl	LB6	1.04980004	1.43 C	11.808						72.9987
33	As	KB5	1.04900002	0.03 C	11.817						72.9431
80	Hg	LB1	1.04879999	49.38 C	11.819						72.9292
79	Au	Lu	1.04770005	0.09 C	11.832						72.8527
33	As	SKB8	1.04711090	1	11.838						72.8117
90	Th	Ls	1.04700005	0.16 C	11.840						72.8040
74	W	L1-N4	1.04650970	0.01	11.845						72.7699
74	W	LG11	1.04639995	0.11 C	11.846						72.7623
33	As	KB2	1.04519999	0.82 C	11.860						72.6789
79	Au	L3-O2	1.04490650	0.01	11.863						72.6585
33	As	K	1.04481617	BB	11.864						72.6522
75	Re	LG8	1.04410005	0.06 C	11.872						72.6024
35	Br	KA2	1.04400003	51.82 C	11.874						72.5954
33	As	SKB3'	1.04380420	1	11.876						72.5818
93	Np	LI	1.04299998	7 C	11.885						72.5259
87	Fr	LA2	1.04250002	11.37 C	11.891						72.4911
33	As	SKB"	1.04210080	1	11.895						72.4634
75	Re	L1-N1	1.04190040	0.01	11.897						72.4494
80	Hg	LB15	1.04149960	0.001	11.902						72.4216
35	Br	KA1,2	1.04130006	151.82 C	11.904						72.4077
79	Au	LB5	1.04059994	2.19 C	11.912						72.3590
75	Re	Lv	1.04050004	0.02 C	11.914						72.3521
76	Os	L2-N3	1.04050004	0.01 C	11.914						72.3521
79	Au	LIII	1.04025775	BB	11.916						72.3352
80	Hg	LB2	1.04009998	22.21 C	11.918						72.3242
35	Br	KA1	1.03989995	100 C	11.920						72.3103
75	Re	L2-O3	1.03959580	0.01	11.924						72.2892

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
81	Tl	LB4	1.03929996	5.42 C	11.927						72.2686
79	Au	L3-P1	1.03879410	0.01	11.933						72.2334
79	Au	SLB2^5	1.03749150	1	11.948						72.1429
75	Re	LG6	1.03719997	0.48 C	11.951						72.1226
75	Re	LII	1.03677825	ABS	11.956						72.0933
35	Br	SKA3	1.03638930	1	11.961						72.0662
35	Br	SKA4	1.03528710	1	11.973						71.9896
83	Bi	L2-M2	1.03460000	0.01	11.981						71.9418
92	U	Lt	1.03458570	0.01	11.982						71.9408
79	Au	SLB5^1	1.03408460	1	11.987						71.9059
80	Hg	LB3	1.03380001	6.47 C	11.991						71.8862
75	Re	LG2	1.03250003	2.5 C	12.006						71.7958
82	Pb	L1-M1	1.03230000	0.01	12.008						71.7819
79	Au	SLB2^7	1.03198040	1	12.012						71.7596
74	W	L1-O1	1.03170000	0.01	12.015						71.7401
87	Fr	LA1	1.03069997	100 C	12.027						71.6706
75	Re	SLB2'	1.02967580	1	12.039						71.5994
74	W	LG4'	1.02867370	0.01	12.050						71.5297
81	Tl	L3-N3	1.02867370	0.01	12.050						71.5297
74	W	LG4	1.02830005	0.98 C	12.055						71.5037
79	Au	LB10	1.02787210	0.001	12.060						71.4740
75	Re	LG3	1.02629995	3.31 C	12.078						71.3646
84	Po	Ln	1.02569997	1.33 C	12.085						71.3229
76	Os	LG1	1.02520001	10.96 C	12.091						71.2882
74	W	L1-O4	1.02506650	0.01	12.093						71.2789
74	W	LI	1.02468801	ABS	12.097						71.2525
79	Au	LB9	1.02370000	0.49 C	12.109						71.1838
91	Pa	Ls	1.02300000	0.16 C	12.117						71.1352
94	Pu	LI	1.02279997	7.14 C	12.120						71.1213
77	Ir	LG5	1.02190006	0.36 C	12.130						71.0587
82	Pb	LB17	1.02190006	0.05 C	12.130						71.0587
75	Re	SLG2''	1.02155940	1	12.134						71.0350
82	Pb	LB6	1.02119994	1.46 C	12.139						71.0100
76	Os	SLG1'	1.01965560	1	12.157						70.9026
80	Hg	LB7	1.01960003	0.28 C	12.158						70.8988
80	Hg	Lu	1.01769996	0.09 C	12.180						70.7666
88	Ra	LA2	1.01670003	11.35 C	12.192						70.6971
80	Hg	L3-O2	1.01554730	0.01	12.206						70.6169
81	Tl	LB1	1.01530004	48.89 C	12.209						70.5997
80	Hg	L3-O3	1.01394400	0.01	12.226						70.5055

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
88	Ra	SLAS	1.01254120	1	12.242						70.4079
81	Tl	LB15	1.01204020	0.001	12.249						70.3731
75	Re	L1-N4	1.01183980	0.01	12.251						70.3591
75	Re	LG11	1.01139998	0.1 C	12.256						70.3286
81	Tl	LB2	1.01059997	22.29 C	12.266						70.2729
82	Pb	L3-N2	1.01043700	0.01	12.268						70.2616
80	Hg	LB5	1.00999999	2.43 C	12.273						70.2312
80	Hg	LIII	1.00933091	BB	12.281						70.1847
76	Os	LG8	1.00810003	0.07 C	12.296						70.0991
82	Pb	LB4	1.00759995	5.5 C	12.303						70.0643
81	Tl	L2-M5	1.00723050	0.01	12.307						70.0386
77	Ir	L2-N3	1.00559998	0.01 C	12.327						69.9252
81	Tl	SLB2^1	1.00552710	1	12.328						69.9202
76	Os	Lv	1.00520003	0.03 C	12.332						69.8974
88	Ra	LA1	1.00489998	100 C	12.336						69.8766
76	Os	L2-O3	1.00462530	0.01	12.339						69.8575
81	Tl	SLB2^2	1.00402400	1	12.346						69.8157
88	Ra	SLA'	1.00302200	1	12.359						69.7460
82	Pb	L3-N3	1.00151900	0.01	12.377						69.6415
95	Am	LI	1.00139999	7.27 C	12.379						69.6332
88	Ra	SLA^IX	1.00131860	1	12.380						69.6275
76	Os	LG6	1.00119996	0.62 C	12.381						69.6193
76	Os	LII	1.00109164	BB	12.382						69.6118
81	Tl	LB3	1.00080001	6.07 C	12.386						69.5915
83	Bi	L1-M1	1.00050000	0.01	12.390						69.5706
92	U	Ls	0.99970001	0.16 C	12.400						69.5150
76	Os	LG2	0.99820000	2.14 C	12.418						69.4107
88	Ra	SLAA	0.99690970	1	12.434						69.3210
75	Re	L1-O1	0.99640869	0.01	12.441						69.2861
34	Se	SKBN	0.99580748	1	12.448						69.2443
81	Tl	SLB2^4	0.99580748	1	12.448						69.2443
80	Hg	LB10	0.99560707	0.001	12.451						69.2304
76	Os	SLG2'	0.99480546	1	12.461						69.1746
85	At	Ln	0.99409997	1.32 C	12.470						69.1256
83	Bi	LB6	0.99349999	1.5 C	12.477						69.0839
75	Re	LG4'	0.99330243	0.01	12.480						69.0701
75	Re	LG4	0.99299997	0.93 C	12.483						69.0491
34	Se	KB3	0.99290001	7.69 C	12.485						69.0421
34	Se	KB1	0.99229997	15.05 C	12.492						69.0004
76	Os	LG3	0.99199998	2.8 C	12.496						68.9796

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
89	Ac	LA2	0.99190003	11.38 C	12.497						68.9726
77	Ir	LG1	0.99110001	10.68 C	12.507						68.9170
80	Hg	LB9	0.99089998	0.48 C	12.510						68.9031
81	Tl	LB7	0.99030000	0.29 C	12.517						68.8614
75	Re	L1-O4	0.98989556	0.01	12.523						68.8332
75	Re	LI	0.98976746	BB	12.524						68.8243
83	Bi	LB17	0.98930001	0.05 C	12.530						68.7918
81	Tl	Lu	0.98900002	0.1 C	12.534						68.7710
34	Se	SKB7	0.98889354	1	12.535						68.7636
78	Pt	LG5	0.98790002	0.35 C	12.548						68.6945
76	Os	SLG2"	0.98749071	1	12.553						68.6660
81	Tl	L3-O2	0.98739051	0.01	12.554						68.6590
77	Ir	SLG1'	0.98578728	1	12.575						68.5476
78	Pt	SLG5	0.98578728	1	12.575						68.5476
34	Se	SKB6	0.98538647	1	12.580						68.5197
81	Tl	L3-O3	0.98538647	0.01	12.580						68.5197
34	Se	KB5	0.98439997	0.03 C	12.592						68.4511
36	Kr	KA2	0.98430002	51.82 C	12.594						68.4441
82	Pb	LB15	0.98388344	0.001	12.599						68.4152
82	Pb	LB1	0.98299998	47.95 C	12.610						68.3537
83	Bi	L3-N2	0.98278122	0.01	12.613						68.3385
82	Pb	LB2	0.98250002	22.44 C	12.617						68.3190
78	Pt	L2-N2	0.98248061	0.01	12.617						68.3176
36	Kr	KA1,2	0.98159999	151.82 C	12.628						68.2564
81	Tl	LB5	0.98079997	2.68 C	12.639						68.2008
96	Cm	LI	0.98070002	7.39 C	12.640						68.1938
36	Kr	KA1	0.98019999	100 C	12.646						68.1590
34	Se	KB2	0.98009998	1.24 C	12.648						68.1521
89	Ac	LA1	0.98009998	100 C	12.648						68.1521
81	Tl	LIII	0.97953940	BB	12.655						68.1131
34	Se	K	0.97951619	BB	12.655						68.1115
36	Kr	SKA	0.97947455	1	12.656						68.1086
81	Tl	L3-P1	0.97927415	0.01	12.658						68.0947
34	Se	SKB"	0.97857273	1	12.667						68.0459
82	Pb	SLB2^1	0.97757071	1	12.680						67.9762
93	Np	Ls	0.97729999	0.17 C	12.684						67.9574
76	Os	L1-N4	0.97716990	0.01	12.686						67.9483
83	Bi	LB4	0.97710001	5.64 C	12.687						67.9435
76	Os	LG11	0.97700000	0.09 C	12.688						67.9365
34	Se	SKB"	0.97696950	1	12.688						67.9344

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
77	Ir	L1-N1	0.97686930	0.01	12.690						67.9274
82	Pb	SLB2^2	0.97616788	1	12.699						67.8787
82	Pb	L2-M5	0.97476506	0.01	12.717						67.7811
81	Tl	SLB5^1	0.97446445	1	12.721						67.7602
77	Ir	LG8	0.97420001	0.06 C	12.724						67.7418
83	Bi	L3-N3	0.97326203	0.01	12.737						67.6766
81	Tl	SLB5^2	0.97316182	1	12.738						67.6696
78	Pt	L2-N3	0.97229999	0.01 C	12.749						67.6097
77	Ir	Lv	0.97180003	0.03 C	12.756						67.5749
82	Pb	SLB2^3	0.97115778	1	12.764						67.5303
77	Ir	L2-O3	0.96985516	0.01	12.781						67.4397
82	Pb	LB3	0.96929997	6.05 C	12.789						67.4011
90	Th	LA2	0.96810001	11.41 C	12.804						67.3177
84	Po	LB6	0.96740001	1.53 C	12.814						67.2690
77	Ir	LG6	0.96719998	0.86 C	12.816						67.2551
77	Ir	LII	ABS	0.96681405	BB	12.821					67.2282
77	Ir	LG2		0.96560001	1.87 C	12.838					67.1438
90	Th	SLAS		0.96424385	1	12.856					67.0495
81	Tl	LB10		0.96394324	0.001	12.860					67.0286
86	Rn	Ln		0.96390003	1.34 C	12.860					67.0256
76	Os	L1-O1		0.96320000	0.01	12.870					66.9769
77	Ir	SLG2'		0.96223981	1	12.882					66.9102
82	Pb	LB7		0.96210003	0.31 C	12.884					66.9004
82	Pb	Lu		0.96149999	0.11 C	12.892					66.8587
97	Bk	LI		0.96060002	7.51 C	12.904					66.7961
76	Os	LG4'		0.96023577	0.01	12.909					66.7708
76	Os	LG4		0.95999998	0.81 C	12.913					66.7544
81	Tl	LB9		0.95980000	0.47 C	12.915					66.7405
77	Ir	LG3		0.95950001	2.4 C	12.919					66.7196
82	Pb	L3-O2		0.95853233	0.01	12.932					66.6524
78	Pt	LG1		0.95810002	10.56 C	12.938					66.6223
82	Pb	L3-O3		0.95780000	0.01	12.942					66.6014
84	Po	LB17		0.95740002	0.05 C	12.948					66.5736
83	Bi	LB15		0.95702930	0.001	12.953					66.5478
90	Th	SLA1^Z		0.95702930	1	12.953					66.5478
90	Th	LA1		0.95609999	100 C	12.965					66.4832
76	Os	LI	ABS	0.95608575	BB	12.965					66.4822
76	Os	L1-O4		0.95602728	0.01	12.966					66.4782
79	Au	LG5		0.95580000	0.35 C	12.969					66.4624
94	Pu	Ls		0.95560002	0.17 C	12.972					66.4485

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
83	Bi	LB2	0.95550001	22.78 C	12.973						66.4415
90	Th	SLA'	0.95422365	1	12.991						66.3528
78	Pt	SLG1'	0.95312142	1	13.006						66.2761
90	Th	SLA^IX	0.95272062	1	13.011						66.2482
82	Pb	LB5	0.95270002	2.92 C	13.011						66.2468
83	Bi	LB1	0.95191900	50	13.022						66.1925
90	Th	SLA^X	0.95191900	1	13.022						66.1925
82	Pb	L3-P1	0.95121759	0.01	13.032						66.1437
82	Pb	LIII	0.95115687	BB	13.033						66.1395
82	Pb	SLB2^6	0.95021557	1	13.045						66.0740
83	Bi	SLB2^2	0.94941395	1	13.056						66.0183
82	Pb	SLB2^7	0.94831173	1	13.072						65.9417
84	Po	LB4	0.94760001	5.71 C	13.081						65.8922
82	Pb	SLB5^1	0.94680870	1	13.092						65.8371
90	Th	SLAA	0.94650809	1	13.097						65.8162
83	Bi	SLB2^3	0.94600708	1	13.103						65.7814
77	Ir	L1-N4	0.94580668	0.01	13.106						65.7675
78	Pt	L1-N1	0.94560627	0.01	13.109						65.7535
82	Pb	SLB5^2	0.94530567	1	13.113						65.7326
77	IR	LG11	0.94529998	0.08 C	13.113						65.7322
91	Pa	LA2	0.94499999	11.43 C	13.117						65.7114
83	Bi	L2-M5	0.94410324	0.01	13.130						65.6490
83	Bi	SLB2^4	0.94229961	1	13.155						65.5236
85	At	LB6	0.94190001	1.55 C	13.161						65.4958
78	Pt	LB8	0.94120002	0.07 C	13.170						65.4471
78	Pt	LG8	0.94119739	0.07 W,F	13.170						65.4470
98	Cf	LI	0.94110000	7.65 C	13.172						65.4402
79	Au	L2-N3	0.94040000	0.01 C	13.182						65.3915
78	Pt	Lv	0.93949997	0.03 C	13.194						65.3289
83	Bi	LB3	0.93870002	6.07 C	13.205						65.2733
35	Br	SKBN	0.93668830	1	13.234						65.1334
83	Bi	LB7	0.93519998	0.32 C	13.255						65.0299
83	Bi	Lu	0.93519998	0.11 C	13.255						65.0299
87	Fr	Ln	0.93510002	1.34 C	13.256						65.0230
95	Am	Ls	0.93470001	0.18 C	13.262						64.9952
78	Pt	LG2	0.93440002	1.71 C	13.266						64.9743
78	Pt	LG6	0.93440002	0.95 C	13.266						64.9743
77	Ir	L1-O1	0.93418325	0.01	13.269						64.9592
78	Pt	LII	0.93414403	BB	13.270						64.9565
82	Pb	LB10	0.93388264	0.001	13.274						64.9383

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
35	Br	KB3	0.93349999	7.84 C	13.279						64.9117
78	Pt	SLG2	0.93348183	1	13.279						64.9105
35	Br	KB1	0.93300003	15.29 C	13.286						64.8769
91	Pa	LA1	0.93300003	100 C	13.286						64.8769
83	Bi	L3-O2	0.93187860	0.01	13.302						64.7990
84	Po	LB15	0.93117719	0.001	13.312						64.7502
78	Pt	SLG2'	0.93097678	1	13.315						64.7363
83	Bi	L3-O3	0.93047577	0.01	13.322						64.7014
37	Rb	KA2	0.92989999	51.89 C	13.330						64.6614
82	Pb	LB9	0.92979997	0.49 C	13.332						64.6544
84	Po	LB2	0.92970002	22.89 C	13.333						64.6475
35	Br	SKB7	0.92967416	1	13.334						64.6457
83	Bi	SLB2^5	0.92857193	1	13.350						64.5690
77	Ir	LG4'	0.92827133	0.01	13.354						64.5481
78	Pt	LG3	0.92809999	2.18 C	13.356						64.5362
77	Ir	LG4	0.92799997	0.71 C	13.358						64.5293
37	Rb	KA1,2	0.92710000	151.89 C	13.371						64.4667
85	At	LB17	0.92699999	0.05 C	13.372						64.4597
35	Br	SKB6	0.92686850	1	13.374						64.4506
79	Au	LG1	0.92670000	10.51 C	13.376						64.4389
37	Rb	KA1	0.92570001	100 C	13.391						64.3693
83	Bi	LB5	0.92570001	3.17 C	13.391						64.3693
35	Br	KB5	0.92510003	0.04 C	13.400						64.3276
78	Pt	SLG2''	0.92476426	1	13.404						64.3043
80	Hg	LG5	0.92470002	0.35 C	13.405						64.2998
77	Ir	L1-O4	0.92426325	0.01	13.412						64.2694
84	Po	SLB2^2	0.92426325	1	13.412						64.2694
83	Bi	L3-P2	0.92416305	0.01	13.413						64.2625
77	Ir	LI	ABS	0.92398703	BB	13.416					64.2502
83	Bi	LIII	ABS	0.92398015	BB	13.416					64.2497
35	Br	SKB8	0.92286042	1	13.432						64.1719
92	U	LA2	0.92269999	11.4 C	13.434						64.1607
37	Rb	SKA3'	0.92266002	1	13.435						64.1579
99	Es	LI	0.92220002	7.78 C	13.442						64.1260
84	Po	LB1	0.92210001	48.17 C	13.443						64.1190
79	Au	SLG1'	0.92205880	1	13.444						64.1161
37	Rb	SKA4	0.92175820	1	13.448						64.0952
83	Bi	SLB2^7	0.92165800	1	13.450						64.0883
35	Br	KB2	0.92060000	1.74 C	13.465						64.0147
35	Br	K	ABS	0.92020158	BB	13.471					63.9870

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
83	Bi	SLB5^1	0.91985436	1	13.476						63.9629
35	Br	SKB'''	0.91935335	1	13.483						63.9280
85	At	LB4	0.91909999	5.81 C	13.487						63.9104
83	Bi	SLB5^2	0.91855173	1	13.495						63.8723
35	Br	SKB''	0.91764992	1	13.508						63.8096
86	Rn	LB6	0.91740000	1.59 C	13.512						63.7922
78	Pt	LG11	0.91469997	0.08 C	13.552						63.6044
96	Cm	Ls	0.91420001	0.18 C	13.559						63.5697
79	Au	L1-N1	0.91304062	0.01	13.577						63.4891
92	U	SLA1^Z	0.91163780	1	13.598						63.3915
92	U	LA1	0.91079998	100 C	13.610						63.3332
79	Au	LG8	0.91000003	0.07 C	13.622						63.2776
84	Po	Lu	0.91000003	0.12 C	13.622						63.2776
84	Po	LB7	0.90950000	0.33 C	13.629						63.2429
80	Hg	L2-N3	0.90910000	0.01 C	13.635						63.2150
92	U	SLA'	0.90883214	1	13.639						63.1964
79	Au	Lv	0.90859997	0.03 C	13.643						63.1803
84	Po	LB3	0.90859997	6.03 C	13.643						63.1803
88	Ra	Ln	0.90759999	1.33 C	13.658						63.1107
79	Au	L2-O2	0.90742931	0.01	13.661						63.0989
92	U	SLA^IX	0.90742931	1	13.661						63.0989
92	U	SLA^X	0.90652749	1	13.674						63.0362
79	Au	L2-O3	0.90632709	0.01	13.677						63.0222
83	Bi	LB10	0.90492426	0.001	13.698						62.9247
85	At	LB2	0.90490001	23.05 C	13.699						62.9230
79	Au	LG2	0.90450001	1.54 C	13.705						62.8952
79	Au	LG6	0.90310001	1.09 C	13.726						62.7978
79	Au	LII	ABS	0.90278732	BB	13.731					62.7761
79	Au	SLG2'	0.90141719	1	13.752						62.6808
92	U	SLAA	0.90131699	1	13.753						62.6738
93	Np	LA2	0.90120000	11.37 C	13.755						62.6657
83	Bi	LB9	0.90090001	0.52 C	13.760						62.6448
84	Po	LB5	0.89980000	3.38 C	13.776						62.5684
78	Pt	L1-O1	0.89911255	0.01	13.787						62.5206
79	Au	LG3	0.89800000	1.94 C	13.804						62.4432
86	Rn	LB17	0.89800000	0.05 C	13.804						62.4432
84	Po	LIII	ABS	0.89754593	BB	13.811					62.4116
78	Pt	LG4'	0.89750931	0.01	13.812						62.4091
78	Pt	LG4	0.89709997	0.67 C	13.818						62.3806
80	Hg	LG1	0.89660001	10.4 C	13.826						62.3458

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
81	Tl	LG5	0.89520001	0.34 C	13.847						62.2485
79	Au	SLG2"	0.89480386	1	13.853						62.2209
97	Bk	Ls	0.89459997	0.18 C	13.856						62.2068
78	Pt	L1-O4	0.89430285	0.01	13.861						62.1861
87	Fr	LB6	0.89380002	1.61 C	13.869						62.1511
85	At	LB1	0.89359999	47.56 C	13.872						62.1372
78	Pt	L1-O5	0.89340103	0.01	13.875						62.1234
78	Pt	LI	0.89327157	BB	13.877						62.1144
80	Hg	SLG1'	0.89219861	1	13.894						62.0398
86	Rn	LB4	0.89190000	6 C	13.898						62.0190
93	Np	LA1	0.88929999	100 C	13.939						61.8382
85	At	Lu	0.88580000	0.13 C	13.994						61.5949
79	Au	L1-N4	0.88568548	0.01	13.996						61.5869
79	Au	LG11	0.88499999	0.07 C	14.007						61.5392
85	At	LB7	0.88480002	0.35 C	14.010						61.5253
36	Kr	SKBN	0.88318043	1	14.036						61.4127
85	At	LB3	0.88150001	6 C	14.062						61.2959
86	Rn	LB2	0.88110000	23.25 C	14.069						61.2680
89	Ac	Ln	0.88050002	1.33 C	14.078						61.2263
94	Pu	LA2	0.88040000	11.39 C	14.080						61.2194
80	Hg	LG8	0.88010001	0.07 C	14.085						61.1985
81	Tl	L2-N3	0.88010001	0.01 C	14.085						61.1985
38	Sr	KA2	0.87959999	52.09 C	14.093						61.1637
36	Kr	KB3	0.87919998	7.85 C	14.099						61.1359
80	Hg	Lv	0.87900001	0.03 C	14.102						61.1220
36	Kr	KB1	0.87870002	15.38 C	14.107						61.1012
80	Hg	L2-O2	0.87837073	0.01	14.112						61.0783
38	Sr	KA1,2	0.87680000	152.09 C	14.138						60.9690
80	Hg	L2-O3	0.87576548	0.01	14.154						60.8971
80	Hg	LG2	0.87559998	1.47 C	14.157						60.8856
98	Cf	Ls	0.87550002	0.19 C	14.159						60.8786
38	Sr	KA1	0.87540001	100 C	14.160						60.8717
85	At	LB5	0.87500000	3.59 C	14.167						60.8439
36	Kr	SKBN	0.87446285	1	14.176						60.8065
80	Hg	LG6	0.87339997	1.19 C	14.193						60.7326
38	Sr	SKA3	0.87265922	1	14.205						60.6811
80	Hg	LII	0.87260059	BB	14.206						60.6770
84	Po	LB9	0.87250000	0.54 C	14.207						60.6700
85	At	LIII	0.87230591	BB	14.211						60.6565
80	Hg	SLG2'	0.87215821	1	14.213						60.6463

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
38	Sr	SKA4	0.87145679	1	14.224						60.5975
36	Kr	KB5	0.87099999	0.05 C	14.232						60.5657
88	Ra	LB6	0.87099999	1.64 C	14.232						60.5657
79	Au	L1-O1	0.87070000	0.01	14.237						60.5449
87	Fr	LB17	0.87029999	0.06 C	14.243						60.5170
80	Hg	LG3	0.86930001	1.84 C	14.260						60.4475
94	Pu	LA1	0.86849999	100 C	14.273						60.3919
79	Au	LG4'	0.86815013	0.01	14.279						60.3676
79	Au	LG4	0.86769998	0.62 C	14.286						60.3363
81	Tl	LG1	0.86769998	10.38 C	14.286						60.3363
80	Hg	SLG2"	0.86744871	1	14.290						60.3188
82	Pb	LG5	0.86669999	0.34 C	14.303						60.2667
36	Kr	KB2	0.86629999	2.29 C	14.309						60.2389
86	Rn	LB1	0.86619997	48.08 C	14.311						60.2319
87	Fr	LB4	0.86580002	6.03 C	14.317						60.2041
36	Kr	K	ABS	0.86547998	BB	14.323					60.1819
36	Kr	KB4		0.86524427	0.001	14.327					60.1655
79	Au	L1-O4		0.86404185	0.01	14.347					60.0819
79	Au	LI	ABS	0.86383981	BB	14.350					60.0678
79	Au	L1-O5		0.86344063	0.01	14.357					60.0401
81	Tl	SLG1'		0.86303983	1	14.363					
86	Rn	Lu		0.86260003	0.14 C	14.371					
88	Ra	L3-N2		0.86173720	0.01	14.385					
86	Rn	LB7		0.86100000	0.36 C	14.397					
82	Pb	L2-N2		0.86043457	0.01	14.407					
95	Am	LA2		0.86040002	11.39 C	14.407					
87	Fr	LB2		0.85829997	23.37 C	14.443					
99	Es	Ls		0.85699999	0.19 C	14.464					
80	Hg	LG11		0.85689998	0.07 C	14.466					
81	Tl	L1-N1		0.85492346	0.01	14.500					
90	Th	Ln		0.85460001	1.34 C	14.505					
86	Rn	LB3		0.85450000	6.07 C	14.507					
82	Pb	L2-N3		0.85200000	0.01 C	14.549					
81	Tl	LG8		0.85149997	0.07 C	14.558					
86	Rn	LB5		0.85119998	3,80 C	14.563					
88	Ra	L3-N3		0.85111579	0.01	14.564					
81	Tl	Lv		0.85060000	0.03 C	14.573					
89	Ac	LB6		0.84909999	1.68 C	14.599					
81	Tl	L2-O2		0.84901155	0.01	14.601					
95	Am	LA1		0.84829998	100 C	14.613					

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ	E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
86	Rn	LIII	ABS	0.84808679		BB	14.616					
81	Tl	LG2		0.84780002	1.42	C	14.621					
85	At	LB9		0.84549999	0.56	C	14.661					
81	Tl	LG6		0.84429997	1.29	C	14.682					
88	Ra	LB17		0.84390002	0.06	C	14.689					
81	Tl	LII	ABS	0.84355724		BB	14.695					
81	Tl	LG3		0.84149998	1.75	C	14.731					
96	Cm	LA2		0.84109998	11.4	C	14.738					
88	Ra	LB4		0.84079999	6.21	C	14.743					
87	Fr	Lu		0.84030002	0.14	C	14.752					
80	Hg	LG4'		0.84009357	0.01		14.755					
82	Pb	LG1		0.83990002	10.32	C	14.759					
80	Hg	LG4		0.83960003	0.61	C	14.764					
87	Fr	LB1		0.83950001	47.91	C	14.766					
83	Bi	LG5		0.83939999	0.35	C	14.768					
87	Fr	LB7		0.83829999	0.37	C	14.787					
82	Pb	L2-N5		0.83820000	0.01		14.789					
88	Ra	LB15		0.83718771	0.001		14.807					
88	Ra	LB2		0.83569998	23.58	C	14.833					
80	Hg	LI	ABS	0.83551920		BB	14.836					
82	Pb	SLG1'		0.83548428	1		14.837					
83	Bi	L2-N2		0.83440000	0.01		14.856					
90	Th	L2-M2		0.83388104	0.01		14.865					
39	Y	KA2		0.83319998	52.31	C	14.878					
88	Ra	SLB2^1		0.83167660	1		14.905					
37	Rb	SKBN		0.83117559	1		14.914					
39	Y	KA1,2		0.83039999	152.31	C	14.928					
88	Ra	SLB2^2		0.83037397	1		14.928					
81	Tl	L1-N4		0.82997317	0.01		14.935					
91	Pa	Ln		0.82959998	1.26	C	14.942					
37	Rb	KB3		0.82940000	7.99	C	14.946					
81	Tl	LG11		0.82940000	0.07	C	14.946					
96	Cm	LA1		0.82910001	100	C	14.951					
39	Y	KA1		0.82900000	100	C	14.953					
37	Rb	KB1		0.82880002	15.58	C	14.957					
82	Pb	L1-N1		0.82857034	0.01		14.961					
87	Fr	LB5		0.82840002	3.98	C	14.964					
87	Fr	LB3		0.82800001	5.97	C	14.971					
90	Th	LB6		0.82800001	1.72	C	14.971					
88	Ra	SLB2^3		0.82646610	1		14.999					

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
39	Y	SKA3'	0.82616549	1	15.004						
37	Rb	SKB7	0.82586488	1	15.010						
39	Y	SKA4	0.82536387	1	15.019						
83	Bi	L2-N3	0.82496307	0.01	15.026						
87	Fr	LIII	ABS	0.82485231	BB	15.028					
88	Ra	SLB2^4	0.82446206	1	15.035						
82	Pb	LG8	0.82366044	0.07	15.050						
37	Rb	SKB6	0.82325963	1	15.057						
97	Bk	LA2	0.82200000	10	15.080						
37	Rb	KB5	0.82185680	0.05	15.083						
82	Pb	LG2	0.82125559	1.4	15.094						
82	Pb	L2-O3	0.82005317	0.01	15.116						
37	Rb	SKB8	0.81925155	1	15.131						
82	Pb	SLG2'	0.81915135	1	15.133						
90	Th	L3-N2	0.81885074	0.01	15.138						
88	Ra	Lu	0.81860000	0.01	15.143						
82	Pb	LG6	0.81684670	1.3	15.175						
37	Rb	KB2	0.81644590	5	15.183						
88	Ra	LB7	0.81614529	0.38	15.188						
81	Tl	L1-O1	0.81584468	0.01	15.194						
82	Pb	L2-P1	0.81584468	0.01	15.194						
37	Rb	K	ABS	0.81570820	BB	15.197					
82	Pb	LII	ABS	0.81569211	BB	15.197					
37	Rb	KB4	0.81524347	0.001	15.205						
82	Pb	LG3	0.81484266	1.7	15.213						
89	Ac	LB2	0.81400000	23.6	15.229						
88	Ra	LB1	0.81374044	50	15.233						
82	Pb	SLG2"	0.81354004	1	15.237						
37	Rb	SKB"	0.81343984	1	15.239						
83	Bi	LG1	0.81313923	10	15.245						
81	Tl	LG4'	0.81303903	0.01	15.247						
81	Tl	LG4	0.81183660	0.6	15.269						
97	Bk	LA1	0.81000000	100	15.304						
83	Bi	SLG1'	0.80903095	1	15.322						
81	Tl	L1-O4	0.80863014	0.01	15.330						
90	Th	L3-N3	0.80822933	0.01	15.337						
81	Tl	LI	ABS	0.80789486	BB	15.344					
91	Pa	LB6	0.80782852	1.75	15.345						
88	Ra	LB5	0.80622529	4	15.375						
92	U	Ln	0.80522327	1.2	15.394						

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
88	Ra	L3-P1	0.80492267	0.01	15.400						
98	Cf	LA2	0.80400000	10	15.418						
88	Ra	L3-P2	0.80372024	0.01	15.423						
82	Pb	L1-N4	0.80362004	0.01	15.425						
88	Ra	LIII	0.80278418		15.441						
88	Ra	LB3	0.80271822	6	15.443						
82	Pb	LG11	0.80231741	0.07	15.450						
83	Bi	L1-N1	0.80221721	0.01	15.452						
88	Ra	SLB5^1	0.80121519	1	15.471						
88	Ra	SLB5^2	0.80041358	1	15.487						
83	Bi	LG8	0.79720711	0.07	15.549						
83	Bi	LG2	0.79560388	1.4	15.581						
90	Th	LB15	0.79540348	0.001	15.585						
83	Bi	L2-O3	0.79380024	0.01	15.616						
90	Th	LB2	0.79349964	23.6	15.622						
90	Th	LB17	0.79259782	0.06	15.640						
90	Th	LB4	0.79259782	5	15.640						
83	Bi	SLG2'	0.79209681	1	15.650						
98	Cf	LA1	0.79200000	100	15.652						
83	Bi	LG6	0.79049358	1.3	15.681						
40	Zr	KA2	0.79009277	50	15.689						
90	Th	SLB2^1	0.79009277	1	15.689						
82	Pb	L1-O1	0.78969196	0.01	15.697						
83	Bi	LG3	0.78929115	1.7	15.705						
83	Bi	LII	0.78915671		15.708						
90	Th	SLB2^2	0.78909075	1	15.709						
89	Ac	LB1	0.78900000	50	15.711						
82	Pb	L1-N6	0.78838934	0.01	15.723						
92	U	LB6	0.78838934	1.75	15.723						
38	Sr	SKBN	0.78788833	1	15.733						
84	Po	LG1	0.78748752	10	15.741						
82	Pb	LG4'	0.78708671	0.01	15.749						
90	Th	SLB2^C	0.78698651	1	15.751						
40	Zr	KA1	0.78588429	100	15.773						
82	Pb	LG4	0.78588429	0.6	15.773						
90	Th	SLB2^3	0.78588429	1	15.773						
90	Th	SLB2^3	0.78438126	1	15.804						
38	Sr	KB3	0.78337924	15	15.824						
90	Th	SLB2^4	0.78337924	1	15.824						
40	Zr	SKA3'	0.78317883	1	15.828						

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
38	Sr	KB1	0.78287823	15	15.834						
82	Pb	L1-O4	0.78257762	0.01	15.840						
90	Th	SLB2^4	0.78217681	1	15.848						
82	Pb	LI	0.78170836		15.858						
89	Ac	LIII	0.78120597		15.868						
93	Np	Ln	0.78090000	1.2	15.874						
90	Th	SLB2^4	0.78057358	1	15.881						
38	Sr	SKB7	0.78037318	1	15.885						
92	U	L3-N2	0.78007257	0.01	15.891						
90	Th	SLB2^4	0.77876994	1	15.917						
83	Bi	L1-N4	0.77856954	0.01	15.922						
89	Ac	LB3	0.77820000	6	15.929						
38	Sr	SKB6	0.77776792	1	15.938						
83	Bi	LG11	0.77726691	0.07	15.948						
90	Th	Lu	0.77660000	0.01	15.962						
38	Sr	KB5	0.77636510	0.05	15.967						
88	Ra	LB10	0.77536308	0.001	15.987						
90	Th	LB7	0.77436106	0.38	16.008						
91	Pa	LB2	0.77365964	23.6	16.023						
38	Sr	SKB8	0.77355944	1	16.025						
90	Th	SLB2^5	0.77255742	1	16.045						
84	Po	LG2	0.77145520	1.4	16.068						
90	Th	L3-O2	0.77125479	0.01	16.073						
38	Sr	KB2	0.77075378	5	16.083						
90	Th	SLB2^6	0.76995217	1	16.100						
38	Sr	K	0.76987445		16.101						
38	Sr	KB4	0.76985197	0.001	16.102						
38	Sr	SKB'''	0.76985197	1	16.102						
91	Pa	LB4	0.76985197	4	16.102						
93	Np	LB6	0.76900000	1.75	16.120						
90	Th	L3-O3	0.76895015	0.01	16.121						
92	U	L3-N3	0.76895015	0.01	16.121						
88	Ra	LB9	0.76854934	0.57	16.129						
38	Sr	SKB''	0.76814853	1	16.138						
90	Th	SLB2^7	0.76774772	1	16.146						
83	Bi	L1-O1	0.76604429	0.01	16.182						
90	Th	LB1	0.76514247	50	16.201						
90	Th	LB5	0.76474166	4	16.209						
84	Po	LG3	0.76444106	3	16.216						
84	Po	LG6	0.76444106	1.3	16.216						

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
83	Bi	L1-N6	0.76404025	0.01	16.224						
90	Th	L3-P1	0.76333884	0.01	16.239						
84	Po	LII	0.76325357	BB	16.241						
85	At	LG1	0.76290000	10	16.249						
90	Th	L3-P2	0.76263742	0.01	16.254						
83	Bi	LG4'	0.76193601	0.01	16.269						
83	Bi	LG4	0.76093399	0.6	16.291						
90	Th	L3-P4	0.76083379	0.01	16.293						
90	Th	LIII	0.76063140	BB	16.297						
94	Pu	Ln	0.75910000	1.2	16.330						
83	Bi	L1-O4	0.75792793	0.01	16.355						
90	Th	L2-M5	0.75782773	0.01	16.357						
83	Bi	LG13	0.75692591	0.001	16.377						
92	U	LB15	0.75662530	0.001	16.383						
83	Bi	LI	0.75658398	BB	16.384						
90	Th	LB3	0.75482167	6	16.422						
92	U	LB2	0.75462126	23.6	16.427						
91	Pa	LB7	0.75452106	0.38	16.429						
94	Pu	LB6	0.75150000	1.75	16.495						
92	U	SLB2^1	0.75141480	1	16.497						
41	Nb	KA2	0.75041278	50	16.519						
92	U	SLB2^2	0.75041278	1	16.519						
92	U	LB4	0.74790773	4	16.574						
41	Nb	KA1	0.74610409	100	16.614						
91	Pa	LB5	0.74520227	4	16.634						
39	Y	SKBN	0.74500187	1	16.639						
92	U	LB17	0.74500187	0.06	16.639						
41	Nb	SKB4	0.74319823	1	16.679						
91	Pa	LB1	0.74219621	50	16.702						
39	Y	KB3	0.74119419	15	16.724						
91	Pa	LIII	0.74095774	BB	16.730						
39	Y	KB1	0.74069318	15	16.736						
86	Rn	LG1	0.73930000	10	16.767						
85	At	LII	0.73867987	BB	16.781						
92	U	Lu	0.73860000	0.01	16.783						
39	Y	SKB7	0.73858894	1	16.783						
39	Y	SKB6	0.73608389	1	16.840						
92	U	LB7	0.73608389	0.38	16.840						
93	Np	LB2	0.73568308	23.6	16.850						
39	Y	KB5	0.73448066	0.05	16.877						

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
95	Am	LB6	0.73420000	1.75	16.884						
92	U	L3-O2	0.73317803	0.01	16.907						
91	Pa	LB3	0.73217601	6	16.930						
84	Po	LI	0.73193816		16.936						
39	Y	SKB8	0.73147460	1	16.947						
92	U	L3-O3	0.73087339	0.01	16.961						
90	Th	LB10	0.73027218	0.001	16.974						
39	Y	KB2	0.72876915	5	17.010						
39	Y	K	0.72768100		17.035						
39	Y	KB4	0.72766692	0.001	17.035						
93	Np	LB4	0.72670000	4	17.058						
92	U	LB5	0.72626410	4	17.068						
39	Y	SKB"	0.72606369	1	17.073						
92	U	L3-P1	0.72516187	0.01	17.094						
92	U	L3-P2	0.72426006	0.01	17.115						
90	Th	LB9	0.72365884	0.57	17.130						
92	U	L3-P4	0.72235622	0.01	17.161						
92	U	LIII	0.72225931		17.163						
39	Y	SKB'''	0.72175501	1	17.175						
94	Pu	LB15	0.72050000	0.001	17.205						
92	U	LB1	0.71995137	50	17.218						
94	Pu	LB2	0.71945036	23.6	17.230						
88	Ra	LG5	0.717644672	0.35	17.273						
87	Fr	LG1	0.71644430	10	17.302						
86	Rn	LII	0.71514382		17.334						
42	Mo	KA2	0.71353844	50	17.373						
92	U	LB3	0.71023178	6	17.453						
42	Mo	KA1	0.70922976	100	17.478						
85	At	LI	0.70877037		17.489						
91	Pa	LB10	0.70872875	0.001	17.490						
93	Np	LB5	0.70810000	4	17.506						
94	Pu	LB4	0.70742612	4	17.523						
42	Mo	SKA4	0.70692511	1	17.535						
40	Zr	SKBN	0.70662450	1	17.543						
88	Ra	L2-N3	0.70421966	0.01	17.602						
93	Np	LIII	0.70406133		17.606						
95	Am	LB15	0.70340000	0.001	17.623						
40	Zr	KB3	0.70221562	15	17.653						
40	Zr	KB1	0.70171461	15	17.665						
91	Pa	LB9	0.70171461	0.57	17.665						

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
95	Am	LB2	0.70141400	23.6	17.673						
94	Pu	LB7	0.70030000	0.38	17.701						
40	Zr	SKB7	0.69920956	1	17.729						
93	Np	LB1	0.69790693	50	17.762						
40	Zr	SKB6	0.69720552	1	17.780						
40	Zr	KB5	0.69590289	0.05	17.813						
88	Ra	LG1	0.69460026	10	17.846						
88	Ra	L2-N5	0.69319744	0.01	17.882						
87	Fr	LII	0.69240332		17.903						
40	Zr	SKB8	0.69239582	1	17.903						
94	Pu	LB5	0.69139380	4	17.929						
40	Zr	KB2	0.68989077	5	17.968						
93	Np	LB3	0.68920000	6	17.986						
40	Zr	KB4	0.68898895	0.001	17.992						
40	Zr	K	0.68889852		17.994						
92	U	LB10	0.68758612	0.001	18.028						
88	Ra	L1-N1	0.68738572	0.01	18.034						
40	Zr	SKB"	0.68698491	1	18.044						
86	Rn	LI	0.68693667		18.045						
94	Pu	LIII	0.68663994		18.053						
95	Am	LB4	0.68640000	4	18.059						
96	Cm	LB2	0.68500000	23.6	18.096						
88	Ra	LG2	0.68197481	1.4	18.177						
92	U	LB9	0.68097279	0.57	18.203						
88	Ra	LG8	0.68007097	0.07	18.228						
43	Tc	KA2	0.67930000	50	18.248						
94	Pu	LB1	0.67836754	50	18.273						
88	Ra	L2-O2	0.67796673	0.01	18.284						
88	Ra	L2-O3	0.67636350	0.01	18.327						
88	Ra	LG3	0.67536148	1.7	18.355						
43	Tc	KA1	0.67500000	100	18.364						
90	Th	LG5	0.67496067	0.35	18.366						
95	Am	LB5	0.67380000	4	18.397						
88	Ra	LG6	0.67325724	1.3	18.412						
88	Ra	L2-P1	0.67235542	0.01	18.437						
88	Ra	L2-P2	0.67135340	0.01	18.464						
88	Ra	LII	0.67075951		18.481						
89	Ac	LG1	0.67060000	10	18.485						
41	Nb	SKBN	0.67055178	1	18.486						
95	Am	LIII	0.67004177		18.500						

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
94	Pu	LB3	0.66934936	6	18.519						
97	Bk	LB2	0.66900000	23.6	18.529						
88	Ra	L1-N4	0.66654370	0.01	18.597						
41	Nb	KB3	0.66634330	15	18.603						
41	Nb	KB1	0.66574209	15	18.620						
88	Ra	LG11	0.66534128	0.07	18.631						
87	Fr	LI	0.66519234		18.635						
41	Nb	SKB7	0.66423906	1	18.662						
41	Nb	SKB6	0.66193441	1	18.727						
90	Th	L2-N3	0.66193441	0.01	18.727						
41	Nb	KB5	0.66003057	0.05	18.781						
95	Am	LB1	0.65832714	50	18.830						
41	Nb	SKB8	0.65682411	1	18.873						
96	Cm	LIII	0.65496672		18.926						
91	Pa	LG5	0.65492027	0.35	18.927						
41	Nb	KB2	0.65411866	5	18.951						
41	Nb	KB4	0.65311664	0.001	18.980						
90	Th	LG1	0.65311664	10	18.980						
41	Nb	K	0.65304863		18.982						
98	Cf	LB2	0.65300000	23.6	18.983						
90	Th	L2-N5	0.65201441	0.01	19.012						
42	Mo	SKB10	0.65191421	1	19.015						
88	Ra	LG4'	0.65131300	0.01	19.032						
41	Nb	SKB"	0.65101239	1	19.041						
89	Ac	LII	0.64970864		19.079						
88	Ra	LG4	0.64960957	0.6	19.082						
95	Am	LB3	0.64890000	6	19.103						
90	Th	L1-N1	0.64760553	0.01	19.141						
44	Ru	KA2	0.64740512	50	19.147						
88	Ra	L1-O4	0.64680391	0.01	19.165						
88	Ra	LG13	0.64510048	0.001	19.216						
88	Ra	LI	0.64452427		19.233						
44	Ru	KA1	0.64299623	100	19.278						
90	Th	LG2	0.64219462	1.4	19.303						
90	Th	Lv	0.64060000	0.01	19.351						
90	Th	LG8	0.63908836	0.07	19.396						
96	Cm	LB1	0.63900000	50	19.399						
42	Mo	SKBN	0.63688391	1	19.464						
90	Th	L2-O2	0.63688391	0.01	19.464						
90	Th	LG3	0.63558129	1.7	19.503						

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
92	U	LG5	0.63548108	0.35	19.506						
91	Pa	LG1	0.63377765	10	19.559						
42	Mo	KB3	0.63277563	15	19.590						
90	Th	LG6	0.63257523	1.3	19.596						
42	Mo	KB1	0.63227462	15	19.605						
42	Mo	SKB10	0.63177361	1	19.621						
90	Th	L2-P2	0.63117240	0.01	19.640						
42	Mo	SKB7	0.63027058	1	19.668						
90	Th	L2-P4	0.62996997	0.01	19.677						
90	Th	LII	ABS	0.62958382	BB	19.689					
42	Mo	SKB6	0.62896795	1	19.708						
90	Th	L1-N4	0.62756513	0.01	19.753						
42	Mo	KB5	0.62686371	0.05	19.775						
90	Th	LG11	0.62646290	0.07	19.787						
42	Mo	SKB9	0.62556109	1	19.816						
89	Ac	LI	ABS	0.62492540	BB	19.836					
91	Pa	LG2	0.62385765	1.4	19.870						
42	Mo	SKB8	0.62345684	1	19.883						
92	U	L2-N3	0.62275543	0.01	19.905						
97	Bk	LB1	0.62100000	50	19.961						
42	Mo	KB2	0.62095179	5	19.963						
42	Mo	KB4	0.61994977	0.001	19.995						
42	Mo	K	ABS	0.61994150	BB	19.995					
45	Rh	KA2	0.61764513	50	20.070						
91	Pa	LG3	0.61684351	1.7	20.096						
93	Np	LG5	0.61600000	0.35	20.123						
90	Th	L1-N6	0.61594169	0.01	20.125						
92	U	LG1	0.61473927	10	20.165						
90	Th	L1-O1	0.61453887	0.01	20.171						
45	Rh	KA1	0.61323624	100	20.214						
91	Pa	LG6	0.61323624	1.3	20.214						
90	Th	LG4'	0.61253483	0.01	20.237						
90	Th	LG4	0.61103180	0.6	20.287						
45	Rh	SKA4	0.61083139	1	20.294						
91	Pa	LII	ABS	0.61035262	BB	20.310					
90	Th	L1-O4	0.60822614	0.01	20.381						
90	Th	LG13	0.60702372	0.001	20.421						
90	Th	LI	ABS	0.60563010	BB	20.468					
92	U	LG2	0.60522008	1.4	20.482						
92	U	Lv	0.60311584	0.01	20.553						

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
98	Cf	LB1	0.60300000	50	20.557						
43	Tc	KB3	0.60190000	15	20.595						
43	Tc	KB1	0.60130000	15	20.615						
92	U	LG8	0.60121200	0.07	20.618						
94	Pu	LG5	0.59880000	0.35	20.701						
92	U	LG3	0.59850655	1.7	20.712						
92	U	L2-O3	0.59720392	0.01	20.757						
93	Np	LG1	0.59720392	10	20.757						
92	U	LG6	0.59479907	1.3	20.841						
91	Pa	LG4	0.59369685	0.6	20.879						
92	U	L2-P2	0.59309564	0.01	20.901						
92	U	L2-P4	0.59199342	0.01	20.939						
92	U	LII	ABS	0.59188260	BB	20.943					
92	U	L1-N4		0.59099140	0.01	20.975					
43	Tc	KB2	0.59020000	5	21.003						
43	Tc	KB4	0.59020000	0.001	21.003						
46	Pd	KA2	0.58978897	50	21.018						
92	U	LG11	0.58978897	0.07	21.018						
43	Tc	K	ABS	0.58917126	BB	21.040					
91	Pa	LI	ABS	0.58747951	BB	21.100					
93	Np	LG2	0.58730000	1.4	21.107						
46	Pd	KA1	0.58538008	100	21.176						
46	Pd	SKA3'	0.58367665	1	21.238						
46	Pd	SKA4	0.58327584	1	21.252						
93	Np	LG3	0.58100000	1.7	21.336						
94	Pu	LG1	0.57916756	10	21.403						
93	Np	LG6	0.57700000	1.3	21.484						
92	U	LG4'	0.57656231	0.01	21.500						
44	Ru	SKBN	0.57566049	1	21.534						
92	U	LG4	0.57505928	0.6	21.556						
93	Np	LII	ABS	0.57399227	BB	21.596					
44	Ru	KB3	0.57305524	15	21.631						
44	Ru	KB1	0.57245403	15	21.654						
92	U	L1-O4	0.57245403	0.01	21.654						
94	Pu	LG2	0.57070000	1.4	21.721						
44	Ru	SKB7	0.57065039	1	21.723						
92	U	LG13	0.57055019	0.001	21.726						
92	U	LI	ABS	0.56985302	BB	21.753					
44	Ru	SKB6	0.56914736	1	21.780						
44	Ru	KB5	0.56784473	0.05	21.830						

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
94	Pu	LG8	0.56580000	0.07	21.909						
94	Pu	LG3	0.56400000	1.7	21.979						
44	Ru	SKB8	0.56393686	1	21.981						
47	Ag	KA2	0.56373645	50	21.989						
95	Am	LG1	0.56213322	10	22.052						
44	Ru	KB2	0.56163221	5	22.071						
44	Ru	KB4	0.56083059	0.001	22.103						
44	Ru	K	0.56058271		22.113						
94	Pu	LG6	0.55970000	1.3	22.148						
47	Ag	KA1	0.55932756	100	22.162						
44	Ru	SKB"	0.55892676	1	22.178						
93	Np	LG4	0.55850000	0.6	22.195						
94	Pu	LII	0.55683143		22.262						
95	Am	LG2	0.55440000	1.4	22.359						
93	Np	LI	0.55284392		22.422						
45	Rh	SKBN	0.54930736	1	22.567						
45	Rh	KB3	0.54620110	15	22.695						
96	Cm	LG1	0.54600000	10	22.703						
45	Rh	KB1	0.54559989	15	22.720						
45	Rh	SKB7	0.54389646	1	22.791						
94	Pu	LG4'	0.54320000	0.01	22.820						
95	Am	LG6	0.54310000	1.3	22.825						
45	Rh	SKB6	0.54239343	1	22.854						
94	Pu	LG4	0.54160000	0.6	22.888						
45	Rh	KB5	0.54099060	0.05	22.914						
95	Am	LII	0.54038180		22.939						
45	Rh	SKB9	0.53988838	1	22.960						
48	Cd	KA2	0.53938737	50	22.982						
45	Rh	SKB8	0.53738333	1	23.067						
94	Pu	LI	0.53679753		23.093						
45	Rh	KB2	0.53507868	5	23.167						
48	Cd	KA1	0.53497848	100	23.171						
45	Rh	KB4	0.53397646	0.001	23.215						
45	Rh	K	0.53396096		23.215						
97	Bk	LG1	0.53000000	10	23.389						
95	Am	LI	0.52154007		23.768						
96	Cm	LII	0.52140628		23.774						
46	Pd	KB3	0.52115060	15	23.786						
46	Pd	KB1	0.52054939	15	23.813						
46	Pd	SKB7	0.51884596	1	23.891						

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
46	Pd	KB5	0.51664151	0.05	23.993						
49	In	KA2	0.51654131	50	23.998						
98	Cf	LG1	0.51500000	10	24.070						
49	In	KA1	0.51213242	100	24.205						
46	Pd	KB2	0.51022858	5	24.295						
46	Pd	KB4	0.50930000	0.001	24.339						
46	Pd	K	ABS	0.50917319	BB	24.345					
96	Cm	LI	ABS	0.50688962	BB	24.455					
47	Ag	SKBN	0.50070939	1	24.757						
47	Ag	KB3	0.49760313	15	24.911						
47	Ag	KB1	0.49700192	15	24.942						
47	Ag	SKB7	0.49539869	1	25.022						
50	Sn	KA2	0.49499788	50	25.043						
47	Ag	SKB6	0.49419626	1	25.083						
47	Ag	KB5	0.49299384	0.05	25.144						
47	Ag	SKB9	0.49199182	1	25.196						
50	Sn	KA1	0.49058899	100	25.268						
47	Ag	SKB8	0.49018818	1	25.288						
47	Ag	KB2	0.48698172	5	25.455						
47	Ag	KB4	0.48597970	0.001	25.507						
47	Ag	K	ABS	0.48594967	BB	25.509					
48	Cd	KB3	0.47565889	15	26.061						
48	Cd	KB1	0.47505768	15	26.094						
51	Sb	KA2	0.47475708	50	26.110						
51	Sb	KA1	0.47034819	100	26.355						
48	Cd	KB2	0.46533809	5	26.639						
48	Cd	K	ABS	0.46416934	BB	26.706					
52	Te	KA2	0.45571870	50	27.201						
49	In	KB3	0.45511748	15	27.237						
49	In	KB1	0.45451627	15	27.273						
52	Te	KA1	0.45130981	100	27.467						
49	In	KB5	0.45080880	0.05	27.497						
49	In	KB2	0.44499708	5	27.856						
49	In	KB4	0.44389486	0.001	27.926						
49	In	K	ABS	0.44375678	BB	27.934					
53	I	KA2	0.43778254	50	28.315						
50	Sn	KB3	0.43587870	15	28.439						
50	Sn	KB1	0.43517729	15	28.485						
53	I	KA1	0.43327345	100	28.610						
50	Sn	KB5	0.43177042	0.05	28.710						

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
50	Sn	KB2	0.42585850	5	29.108						
50	Sn	KB4	0.42495668	0.001	29.170						
50	Sn	K	0.42460540		29.194						
54	Xe	KA2	0.42044759	50	29.483						
51	Sb	KB3	0.41774214	15	29.674						
51	Sb	KB1	0.41704072	15	29.724						
54	Xe	KA1	0.41593850	100	29.802						
51	Sb	SKB7	0.41553769	1	29.831						
51	Sb	KB5	0.41373406	0.05	29.961						
51	Sb	KB2	0.40792234	5	30.388						
51	Sb	KB4	0.40702052	0.001	30.455						
51	Sb	K	0.40662617		30.485						
55	Cs	KA2	0.40481608	50	30.621						
52	Te	KB3	0.40060760	15	30.943						
55	Cs	KA1	0.40030699	100	30.966						
52	Te	KB1	0.40000638	15	30.990						
52	Te	KB2	0.39108841	5	31.696						
52	Te	K	0.38972144		31.807						
52	Te	Kd1	0.38968558	0.01	31.810						
52	Te	Kd2	0.38968558	0.01	31.810						
56	Ba	KA2	0.38968558	50	31.810						
56	Ba	KA1	0.38507629	100	32.191						
53	I	KB3	0.38457528	15	32.233						
53	I	KB1	0.38387386	15	32.292						
53	I	KB2	0.37545689	5	33.016						
57	La	KA2	0.37525649	50	33.033						
53	I	K	0.37379392		33.163						
57	La	KA1	0.37074740	100	33.435						
54	Xe	KB3	0.36940000	15	33.557						
54	Xe	KB1	0.36844275	15	33.644						
58	Ce	KA2	0.36162902	50	34.278						
54	Xe	KB2	0.35992558	5	34.440						
54	Xe	K	0.35873894		34.554						
58	Ce	KA1	0.35711993	100	34.711						
60	Nd	KA2	0.35651872	50	34.770						
55	Cs	KB3	0.35501569	15	34.917						
55	Cs	KB1	0.35431427	15	34.986						
59	Pr	KA2	0.34870296	50	35.549						
55	Cs	KB2	0.34609771	5	35.816						
55	Cs	K	0.34455072		35.977						

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
59	Pr	KA1	0.34409367	100	36.025						
56	Ba	KB3	0.34148842	15	36.300						
56	Ba	KB1	0.34078700	15	36.375						
56	Ba	KB5	0.33808155	0.05	36.666						
56	Ba	KB2	0.33277084	5	37.251						
60	Nd	KA1	0.33186902	100	37.352						
56	Ba	Kd1	0.33126781	0.01	37.420						
56	Ba	Kd2	0.33126781	0.01	37.420						
56	Ba	K	ABS	0.33115174	BB	37.433					
57	La	KB3	0.32866256	15	37.716						
57	La	KB1	0.32796115	15	37.797						
57	La	KB5	0.32555630	0.05	38.076						
61	Pm	KA2	0.32485488	50	38.159						
61	Pm	KA1	0.32074660	100	38.647						
57	La	KB2	0.32014539	5	38.720						
57	La	KB4	0.31924357	0.001	38.829						
57	La	Kd1	0.31864236	0.01	38.903						
57	La	Kd2	0.31864236	0.01	38.903						
57	La	K	ABS	0.31852659	BB	38.917					
58	Ce	KB3	0.31653812	15	39.161						
58	Ce	KB1	0.31583670	15	39.248						
62	Sm	KA2	0.31363226	50	39.524						
58	Ce	KB5	0.31343186	0.05	39.549						
62	Sm	KA1	0.30892277	100	40.127						
58	Ce	KB2	0.30822135	5	40.218						
58	Ce	KB4	0.30731953	0.001	40.336						
58	Ce	Kd1	0.30661812	0.01	40.428						
58	Ce	Kd2	0.30661812	0.01	40.428						
58	Ce	K	ABS	0.30656776	BB	40.435					
59	Pr	KB3	0.30491469	15	40.654						
59	Pr	KB1	0.30421327	15	40.748						
63	Eu	KA2	0.30321125	50	40.882						
63	Eu	KA1	0.29850176	100	41.527						
59	Pr	KB2	0.29689853	5	41.752						
59	Pr	K	ABS	0.29526894	BB	41.982					
60	Nd	KB3	0.29399267	15	42.164						
60	Nd	KB1	0.29329125	15	42.265						
64	Gd	KA2	0.29319105	50	42.280						
64	Gd	KA1	0.28838136	100	42.985						
60	Nd	KB2	0.28627711	5	43.301						

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
60	Nd	K	ABS	0.28457271	BB	43.560					
61	Pm	KB3		0.28360000	15	43.709					
65	Tb	KA2		0.28347146	50	43.729					
61	Pm	KB1		0.28290000	15	43.818					
65	Tb	KA1		0.27876196	100	44.468					
61	Pm	KB2		0.27600000	5	44.913					
61	Pm	K	ABS	0.27440067	BB	45.175					
66	Dy	KA2		0.27435308	50	45.183					
62	Sm	KB3		0.27375186	15	45.282					
62	Sm	KB1		0.27305045	15	45.398					
62	Sm	KB5		0.27110000	0.05	45.725					
66	Dy	KA1		0.26954338	100	45.989					
62	Sm	KB2		0.26633692	5	46.543					
67	Ho	KA2		0.26553530	50	46.683					
62	Sm	Kd1		0.26490000	0.01	46.795					
62	Sm	Kd2		0.26490000	0.01	46.795					
62	Sm	K	ABS	0.26473218	BB	46.825					
63	Eu	KB3		0.26443308	15	46.878					
63	Eu	KB1		0.26363146	15	47.020					
67	Ho	KA1		0.26082581	100	47.526					
68	Er	KA2		0.25711833	50	48.211					
63	Eu	KB2		0.25691793	5	48.249					
63	Eu	Kd1		0.25560000	0.01	48.498					
63	Eu	Kd2		0.25560000	0.01	48.498					
63	Eu	K	ABS	0.25553948	BB	48.509					
64	Gd	KB3		0.25521449	15	48.571					
64	Gd	KB1		0.25441288	15	48.724					
64	Gd	KB5		0.25280000	0.05	49.035					
68	Er	KA1		0.25250904	100	49.091					
69	Tm	KA2		0.24910217	50	49.763					
64	Gd	KB2		0.24810015	5	49.964					
64	Gd	Kd1		0.24690000	0.01	50.207					
64	Gd	Kd2		0.24690000	0.01	50.207					
65	Tb	KB3		0.24679753	15	50.227					
64	Gd	K	ABS	0.24679025	BB	50.229					
65	Tb	KB1		0.24599591	15	50.391					
69	Tm	KA1		0.24439268	100	50.722					
70	Yb	KA2		0.24148682	50	51.332					
65	Tb	KB2		0.23958298	5	51.740					
65	Tb	Kd1		0.23860000	0.01	51.953					

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
65	Tb	Kd2	0.23860000	0.01	51.953						
65	Tb	K	0.23845280	BB	51.985						
66	Dy	KB3	0.23838056	15	52.001						
66	Dy	KB1	0.23757894	15	52.176						
70	Yb	KA1	0.23677733	100	52.353						
66	Dy	KB5	0.23620000	0.05	52.481						
71	Lu	KA2	0.23407187	50	52.958						
66	Dy	KB2	0.23176723	5	53.485						
67	Ho	KB3	0.23080000	15	53.709						
66	Dy	Kd1	0.23060000	0.01	53.755						
66	Dy	Kd2	0.23060000	0.01	53.755						
66	Dy	K	0.23050503	BB	53.778						
67	Ho	KB1	0.23010000	15	53.872						
71	Lu	KA1	0.22926218	100	54.069						
67	Ho	KB5	0.22860000	0.05	54.226						
72	Hf	KA2	0.22695753	50	54.618						
67	Ho	KB2	0.22430000	5	55.265						
68	Er	KB3	0.22345046	15	55.475						
67	Ho	Kd1	0.22300000	0.01	55.587						
67	Ho	Kd2	0.22300000	0.01	55.587						
67	Ho	K	0.22292400	BB	55.606						
68	Er	KB1	0.22264884	15	55.675						
72	Hf	KA1	0.22214783	100	55.801						
68	Er	KB5	0.22120000	0.05	56.040						
73	Ta	KA2	0.22024400	50	56.283						
68	Er	KB2	0.21713773	5	57.088						
69	Tm	KB3	0.21603551	15	57.379						
74	W	KL1	0.21590000	0.01	57.415						
68	Er	Kd1	0.21580000	0.01	57.442						
68	Er	Kd2	0.21580000	0.01	57.442						
68	Er	K	0.21568082	BB	57.474						
73	Ta	KA1	0.21543430	100	57.540						
69	Tm	KB1	0.21533410	15	57.566						
69	Tm	KB5	0.21400000	0.05	57.925						
74	W	KA2	0.21383107	50	57.971						
69	Tm	KB2	0.21010000	5	59.000						
70	Yb	KB3	0.20962258	15	59.135						
74	W	KA1	0.20902137	100	59.305						
69	Tm	Kd1	0.20890000	0.01	59.339						
69	Tm	Kd2	0.20890000	0.01	59.339						

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
69	Tm	K	ABS	0.20876584	BB	59.378					
70	Yb	KB1		0.20872077	15	59.390					
75	Re	KA2		0.20761854	50	59.706					
70	Yb	KB5		0.20740000	0.05	59.769					
70	Yb	KB2		0.20361046	5	60.881					
71	Lu	KB3		0.20290905	15	61.091					
75	Re	KA1		0.20280885	100	61.122					
70	Yb	Kd1		0.20230000	0.01	61.275					
70	Yb	Kd2		0.20230000	0.01	61.275					
70	Yb	K	ABS	0.20215319	BB	61.320					
71	Lu	KB1		0.20210743	15	61.334					
76	Os	KA2		0.20160642	50	61.486					
71	Lu	KB5		0.20080000	0.05	61.733					
71	Lu	KB2		0.19689693	5	62.957					
76	Os	KA1		0.19679673	100	62.989					
72	Hf	KB3		0.19619552	15	63.182					
71	Lu	Kd1		0.19590000	0.01	63.277					
71	Lu	Kd2		0.19590000	0.01	63.277					
77	Ir	KA2		0.19589491	50	63.279					
71	Lu	K	ABS	0.19582650	BB	63.301					
72	Hf	KB1		0.19559430	15	63.376					
77	Ir	KA1		0.19098501	100	64.906					
73	Ta	KB3		0.19088481	15	64.940					
72	Hf	KB2		0.19078461	5	64.974					
78	Pt	KA2		0.19038380	50	65.111					
73	Ta	KB1		0.19008319	15	65.214					
72	Hf	K	ABS	0.18972254	BB	65.338					
73	Ta	KB5		0.18878057	0.05	65.664					
79	Au	KL1		0.18670000	0.01	66.395					
78	Pt	KA1		0.18547390	100	66.834					
74	W	KB3		0.18517330	15	66.943					
73	Ta	KB2		0.18507309	5	66.979					
79	Au	KA2		0.18507309	50	66.979					
73	Ta	KB4		0.18447188	0.001	67.197					
74	W	KB1		0.18437168	15	67.234					
73	Ta	K	ABS	0.18390955	BB	67.403					
74	W	KB5		0.18316926	0.05	67.675					
79	Au	KA1		0.18016320	100	68.804					
80	Hg	KA2		0.18000000	50	68.867					
75	Re	KB3		0.17966219	15	68.996					

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
74	W	KB2	0.17946178	5	69.073						
74	W	KB4	0.17896077	0.001	69.267						
75	Re	KB1	0.17886057	15	69.305						
74	W	K	0.17833182		69.511						
75	Re	KB5	0.17770000	0.05	69.758						
80	Hg	KA1	0.17510000	100	70.794						
81	Tl	KA2	0.17505289	50	70.813						
76	Os	KB3	0.17445168	15	71.057						
75	Re	KB2	0.17415108	5	71.180						
76	Os	KB1	0.17365007	15	71.385						
75	Re	KB4	0.17360000	0.001	71.406						
75	Re	K	0.17297911		71.662						
76	Os	KB5	0.17250000	0.05	71.861						
82	Pb	KA2	0.17024320	50	72.813						
81	Tl	KA1	0.17014300	100	72.856						
77	Ir	KB3	0.16934138	15	73.201						
76	Os	KB2	0.16904077	5	73.331						
77	Ir	KB1	0.16853976	15	73.549						
76	Os	KB4	0.16840000	0.001	73.610						
76	Os	K	0.16784061		73.856						
77	Ir	KB5	0.16743754	0.05	74.034						
83	Bi	KA2	0.16573411	50	74.795						
82	Pb	KA1	0.16533330	100	74.976						
78	Pt	KB3	0.16453168	15	75.341						
77	Ir	KB2	0.16403067	5	75.571						
78	Pt	KB1	0.16362987	15	75.756						
77	Ir	KB4	0.16352966	0.001	75.803						
77	Ir	K	0.16290050		76.096						
78	Pt	KB5	0.16262785	0.05	76.223						
84	Po	KA2	0.16130000	50	76.851						
83	Bi	KA1	0.16082421	100	77.078						
79	Au	KB3	0.15982219	15	77.561						
78	Pt	KB2	0.15932118	5	77.805						
79	Au	KB1	0.15902057	15	77.952						
78	Pt	KB4	0.15882017	0.001	78.051						
78	Pt	K	0.15815488		78.379						
78	Pt	Kd1	0.15811876	0.01	78.397						
78	Pt	Kd2	0.15811876	0.01	78.397						
79	Au	KB5	0.15791835	0.05	78.496						
85	At	KA2	0.15700000	50	78.955						

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
84	Po	KA1	0.15640000	100	79.258						
80	Hg	KB3	0.15490000	15	80.026						
79	Au	KB2	0.15471189	5	80.123						
80	Hg	KB1	0.15450000	15	80.233						
79	Au	KB4	0.15421088	0.001	80.383						
79	Au	K	0.15358978		80.708						
80	Hg	KB5	0.15350000	0.05	80.756						
86	Rn	KA2	0.15290000	50	81.073						
85	At	KA1	0.15210000	100	81.499						
81	Tl	KB3	0.15100441	15	82.090						
80	Hg	KB2	0.15030000	5	82.475						
81	Tl	KB1	0.15010260	15	82.584						
80	Hg	KB4	0.14980000	0.001	82.750						
81	Tl	KB5	0.14920000	0.05	83.083						
80	Hg	K	0.14919587		83.085						
87	Fr	KA2	0.14900000	50	83.195						
86	Rn	KA1	0.14800000	100	83.757						
82	Pb	KB3	0.14679593	15	84.444						
81	Tl	KB2	0.14600000	5	84.904						
82	Pb	KB1	0.14599431	15	84.907						
81	Tl	KB4	0.14550000	0.001	85.196						
88	Ra	KA2	0.14510000	50	85.431						
82	Pb	KB5	0.14499229	0.05	85.494						
81	Tl	K	0.14496039		85.513						
87	Fr	KA1	0.14400000	100	86.083						
83	Bi	KB3	0.14278785	15	86.814						
82	Pb	KB2	0.14198623	5	87.304						
83	Bi	KB1	0.14198623	15	87.304						
82	Pb	KB4	0.14158543	0.001	87.551						
89	Ac	KA2	0.14140000	50	87.666						
83	Bi	KB5	0.14110000	0.05	87.853						
82	Pb	K	0.14088507		87.987						
88	Ra	KA1	0.14010000	100	88.480						
84	Po	KB3	0.13890000	15	89.244						
84	Po	KB1	0.13810000	15	89.761						
83	Bi	KB2	0.13807836	5	89.775						
90	Th	KA2	0.13777775	50	89.971						
83	Bi	KB4	0.13760000	0.001	90.087						
83	Bi	K	0.13696102		90.508						
89	Ac	KA1	0.13640000	100	90.880						

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
85	At	KB3	0.13520000	15	91.686						
84	Po	KB2	0.13430000	5	92.301						
85	At	KB1	0.13430000	15	92.301						
91	Pa	KA2	0.13430000	50	92.301						
84	Po	K	ABS	0.13316707	BB	93.086					
90	Th	KA1		100	93.366						
86	Rn	KB3	0.13160000	15	94.195						
92	U	KA2	0.13096401	50	94.652						
86	Rn	KB1	0.13070000	15	94.843						
85	At	KB2	0.13060000	5	94.916						
85	At	K	ABS	0.12951565	BB	95.710					
91	Pa	KA1	0.12930000	100	95.870						
87	Fr	KB3	0.12810000	15	96.768						
93	Np	KA2	0.12800000	50	96.844						
87	Fr	KB1	0.12720000	15	97.453						
86	Rn	KB2	0.12710000	5	97.530						
86	Rn	K	ABS	0.12599610	BB	98.384					
92	U	KA1	0.12595391	100	98.417						
94	Pu	KA2	0.12500000	50	99.168						
88	Ra	KB3	0.12470000	15	99.407						
88	Ra	KB1	0.12380000	15	100.129						
87	Fr	KB2	0.12370000	5	100.210						
93	Np	KA1	0.12300000	100	100.780						
87	Fr	K	ABS	0.12259134	BB	101.116					
95	Am	KA2	0.12200000	50	101.607						
89	Ac	KB3	0.12140000	15	102.109						
89	Ac	KB1	0.12060000	15	102.786						
88	Ra	KB2	0.12040000	5	102.957						
94	Pu	KA1	0.12000000	100	103.300						
88	Ra	K	ABS	0.11930613	BB	103.901					
96	Cm	KA2	0.11900000	50	104.168						
90	Th	KB3	0.11823836	15	104.839						
90	Th	KB1	0.11743674	15	105.555						
89	Ac	KB2	0.11720000	5	105.768						
95	Am	KA1	0.11700000	100	105.949						
90	Th	KB5	0.11663513	0.05	106.280						
89	Ac	K	ABS	0.11613962	BB	106.734					
97	Bk	KA2	0.11600000	50	106.862						
91	Pa	KB3	0.11520000	15	107.604						
91	Pa	KB1	0.11430000	15	108.451						

AN	EL	LINE	WAVELENGTH	INTENSITY	d-spacingÅ E (KeV)	143 LDEB	98 LDE2	61.79 LDE1	25.757 TAP	8.742 PETH/J	4.0267 LiFJ/H
90	Th	KB2	0.11413008	5	108.613						
96	Cm	KA1	0.11400000	100	108.737						
90	Th	KB4	0.11370000	0.001	109.024						
90	Th	Kd1	0.11322826	0.01	109.478						
90	Th	Kd2	0.11322826	0.01	109.478						
90	Th	K	0.11307267		109.629						
98	Cf	KA2	0.11300000	50	109.699						
92	U	KB3	0.11232644	15	110.357						
92	U	KB1	0.11142462	15	111.250						
91	Pa	KB2	0.11120000	5	111.475						
97	Bk	KA1	0.11100000	100	111.676						
92	U	KB5	0.11070000	0.05	111.978						
91	Pa	K	0.11010982		112.579						
93	Np	KB1	0.10900000	15	113.725						
92	U	KB2	0.10830000	5	114.460						
98	Cf	KA1	0.10800000	100	114.778						
92	U	KB4	0.10780000	0.001	114.991						
92	U	Kd1	0.10740000	0.01	115.419						
92	U	Kd2	0.10740000	0.01	115.419						
92	U	K	0.10724797		115.583						
94	Pu	KB1	0.10600000	15	116.943						
93	Np	KB2	0.10500000	15	118.057						
93	Np	K	0.10447193		118.654						
94	Pu	KB2	0.10300000	15	120.350						
95	Am	KB1	0.10300000	15	120.350						
94	Pu	K	0.10177905		121.793						
96	Cm	KB1	0.10100000	15	122.733						
95	Am	KB2	0.10000000	15	123.960						
95	Am	K	0.09916674		125.002						
96	Cm	KB2	0.09800000	15	126.490						
97	Bk	KB1	0.09800000	15	126.490						
98	Cf	KB1	0.09700000	15	127.794						
96	Cm	K	0.09669724		128.194						
97	Bk	KB2	0.09500000	15	130.484						
98	Cf	KB2	0.09300000	15	133.290						