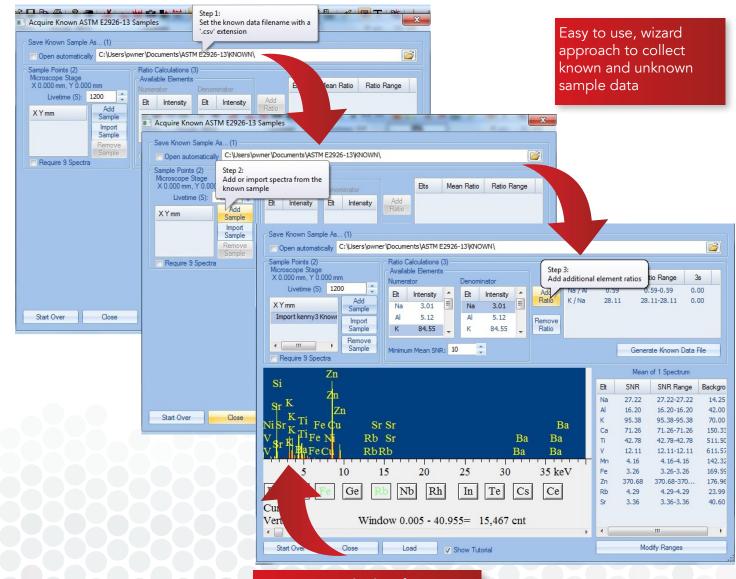
IXRF Systems is proud to present the addition of the "ASTM Method for Forensic Comparison of Glass Using Micro X-ray Fluorescence (µXRF) Spectrometry"

to our software, Iridium Ultra.

The ASTM method is for the non-destructive comparison of forensic glass fragments by determining the major, minor, and trace elements present in the glass. Iridium Ultra incorporates all of the analytical requirements of the ASTM method in an easy to use format, that includes everything from automatic peak identification to automatic report generation. The guidelines of the method are built into the software to assure that all aspects of the method are correctly followed and documented.

Spectra can be collected via IXRF's micro-XRF mounted on your SEM or by employing one

of our ATLAS series of microXRF imaging spectrometers.



Automatic Peak Identification



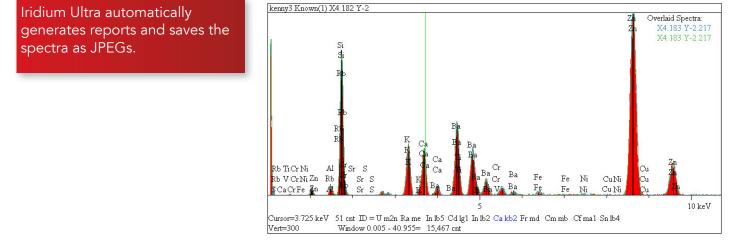


ASTM E2926-13

Forensic Comparison of Glass

using Micro X-ray Fluorescence (µXRF) Spectrometry

Unknown samples can be automatically searched against a saved library of known samples, in-house standards, or certified reference standards.



al		В	С	D	E	F	G	Н	1	J	К	L	М
1				estion Sa									
2	Generate	d 12/6/20	13 by iXRI	F Iridium I	Ultra Soft	ware							
3													
4	Q = Ques	tioned											
5													
6	Spectrum	ctrum overlay shown in files:											
7						Inistrator\Documents\ASTM E2926-13\REPORT\kenny3.jpg inistrator\Documents\ASTM E2926-13\KNOWN\Known kenny3.jpg 'K Ca / A1 ge O Range Overlap 'S-85, 7198-79, 37.97-39, 13.95-17, 500-557, 0.92-598, 361.29-381.91 11.33 76.81 76.81 38.53 15.22 5.33 4.15 371.9 '9.33 133.02 565 581.43 120.71 167.11 T6.72, 44 Ca Ti V Mn Fe Zn							
8		C:\Docun	nents and	Settings	Administ	rator\Doc	uments\/	ASTM E292	6-13\KNO	WN\Know	n kenny3.	jpg	
9													
10	Summary												
11		Known	Element		Ca / K								
12		Known k	Yes	Range O	Range O	Range O	verlap						
13	-	_											
14	Decision												
15	-	Element								-	-		
16	-	(Q) kenn		AI	K								
17 18												\$1.91	
18		SNR Mea		14.75									
20	-	Backgrou	10.29	38.63	/9.33	133.02	505	581.43	120.71	167.11	1/5.24		
20		Known k	Ne	AL	К	C-	T:	M	14-	5-	7-	C	V
21	-			16.20-20.									
22		SNR Mea		18.86	85.96	80.17	39.29	13.79	3.32	5.20*8.48	366.41	4.59	4.18
24		Backgrou		35	75.33	128.92	557	596.86	145.14	152.82	183.85	36.87	20.32
25		Duckgrot	11.00	55	13.55	120.52	557	550.00	145.14	152.02	105.05	50.07	20.52
26		Ratio Ta	hles:										
27		(Q) kenn		Ca / K	Ca / Al								
28				0.00-68.6									
29													
30		Known k	Ca / Ti	Ca / K	Ca / Al								
31				0.00-0.01									
32													

Iridium Ultra automatically calculates element ratios and signal to noise ratios per ASTM method.

In addition, it automatically creates Excel Spread Sheets.

Want More information?

Contact us at sales@ixrfsystems.com or +1 512.386.6100

4	A	В	С	D	E	F	G	Н
1	Known k	enny3 gen	erated 12/	6/2013 Бу	iXRF Iridiu	m Ultra So	oftware	
2								
3	Ratio tab	le:						
4	Ratio	Mean	Low	High	3s			
5	Ca/Ti	0.01	0	0.01	0.01			
6	Ca/K	0	0	0.01	0.01			
7	Ca/AI	0.06	0.02	0.11	0.11			
8								
9	Element	table						
10	Element Mean SN		SNRLow	SNR Higl	Mean Ba	ekground		
11	Na	26.09	21.13	29.92	11.88	1.0		
12	AI	18.86	16.2	20.89	35			
13	к	85.96	71.42	95.38	75.33			
14	Ca	80.17	69.18	100.07	128.92			
15	Ti	39.29	35.83	42.78	557			
16	V	13.79	12.11	15.8	596.86			
17	Mn	3.32	2.74	4.16	145.14			
18	Fe	5.31	3.26	8.48	152.82			
19	Zn	366.41	337.21	391.33	183.85			
20	Sr	4.59	3.16	7.24	36.87			
21	Y	4.18		2.16-12.5	20.32			
22								
23	Rangest	able						
24	-		High Pre	Low Pea	High Pea	Low Pos	High Post-	peak
25	Na	0.92	0.96	0.95	1.13	1.12	1.16	
26	Mg	1.13	1.17	1.16	1.34	1.33	1.37	
27	Al	1.38	1.42	1.42	1.56	1.55	1.57	
28	S	2.11	2.16	2.21	2.41	2.46	2.51	
29	ĸ	3.19	3.22	3.25	3.4	3.41	3.44	
30	Ca	3.17	3.21	3.49	3.89	4.24	4.28	
31	Ti	4.22	4.31	4.36	4.66	4.71	4.8	
32	V	4.7	4.75	4.8	5.1	5.15	5.2	
33	Cr	5.11	5.21	5.26	5.56	5.61	5.71	
34	Mn	5.59	5.69	5.74	6.04	6.09	6.19	
35	Fe	6.05	6.15	6.2	6.6	6.65	6.75	
36	Co	6.67	6.72	6.77	7.07	7.12	7.17	
37	Ni	7.2	7.27	7.32	7.62	7.67	7.74	
14 4			kenny3		/			