



# X-Ray Fluorescence Spectrometer - QualiX<sup>TM</sup> M1

Member of  
**(WORLD of TEST)**<sup>TM</sup>

[WORLD of TEST.com](http://WORLDofTEST.com)



## APPLICATIONS

---

### **X-Ray Fluorescence Spectrometer - QualiX™ M1**

X-Ray Fluorescence Spectrometer - QualiX™ M1 is a versatile all-in-one XRF solution for a wide range of elemental analyses. The QualiX™ M1 comes equipped with a high-performance UHRD or SDD detector and an advanced vacuum system, making it ideal for various testing applications, including minerals, alloys, RoHS compliance, plating thickness, and custom analysis.

### **Software Options**

- Full-elemental analysis- Na-U
- RoHS/WEEE Analysis
- Mineral Analysis
- Alloy Analysis
- Plating Thickness
- Custom calibrations for virtually any application

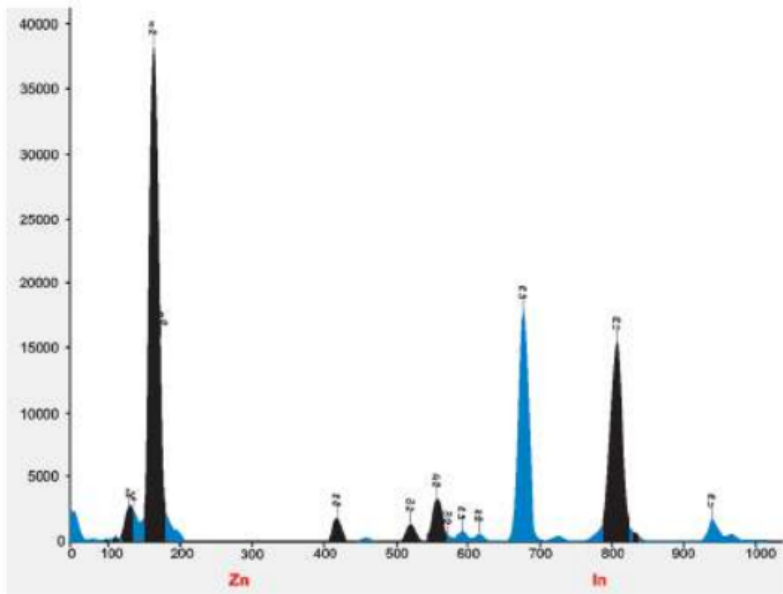


## Standard Configuration

- Efficient super-thin window x-ray light tube
- High-performance electronic cooling UHRD detector
- Signal-to-Noise Enhancer(SNE)
- CMOS HD camera
- Automatic Collimators and filters
- Triple X-Ray protection
- Vacuum Pump



## RoHS Analysis-Lead(Pb)

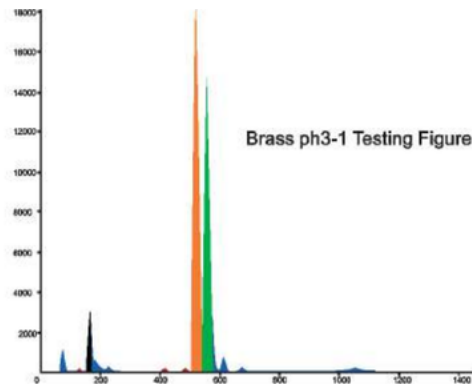


### Repeatability

Name	Pb	Zn	Cu	Fe	Ca	Si	S	Mg	Al
1	53.62	5.05	3.56	10.11	1.19	3.98	14.16	0.28	0.27
2	53.45	4.95	3.48	9.91	1.28	3.37	15.30	0.32	0.26
3	53.32	5.15	3.49	9.89	1.32	3.54	15.23	0.20	0.26
4	53.84	5.13	3.29	9.94	1.26	3.46	14.98	0.35	0.24
5	53.42	5.07	3.88	9.69	1.25	3.37	15.36	0.61	0.25
6	53.79	5.09	3.46	10.10	1.24	4.12	15.48	0.29	0.28
7	53.23	5.04	3.48	9.97	1.28	3.84	14.98	0.44	0.26
8	53.31	5.06	3.64	9.66	1.19	3.21	14.65	0.52	0.24
9	53.80	5.13	3.54	9.76	1.34	3.94	14.32	0.42	0.27
10	53.19	5.01	3.31	9.82	1.27	4.16	15.04	0.37	0.26
11	52.86	5.34	3.67	9.24	1.60	3.72	14.16	0.43	0.29
Average value	53.44	5.09	3.53	9.83	1.29	3.70	14.88	0.38	0.26
Standard deviation	0.30	0.10	0.17	0.24	0.11	0.33	0.48	0.12	0.02
Relative standard deviation	0.57	1.96	4.68	2.48	8.64	8.90	3.25	30.37	5.87

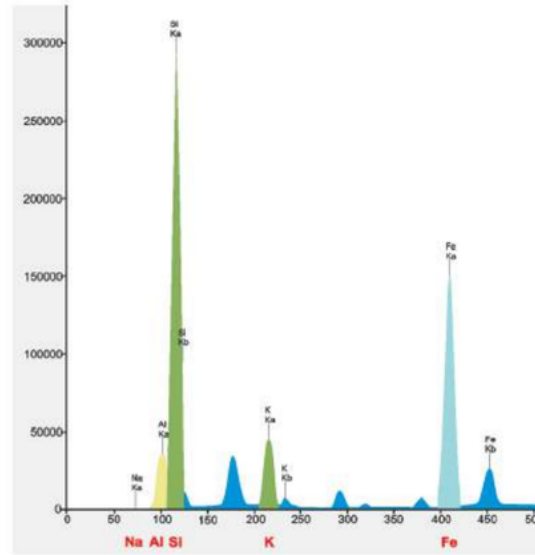
### Alloy Analysis-Brass

Element	Cu	Pb	Fe	Sn	Al	Ni	Mn	Si
Content	58.6531	3.0070	0.3866	0.0002	0.2287	0.2297	0.0002	0.0019
Element	Sb	Co	P	S	Zn	Bi	Cr	
Content	0.0002	0.0008	0.0098	0.0005	37.0130	0.3411	0.0052	

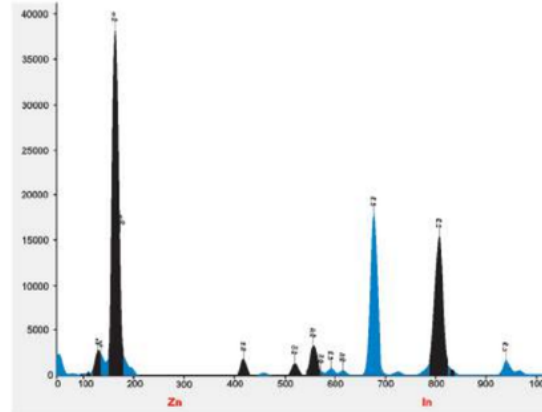


## Analysis-Kaolin (Zn)

Name	Na2O	Al2O3	SiO2	Fe2O3	K2O
Kaolin-1	0.4775	16.3222	74.6662	4.8268	3.4161
Kaolin-2	0.5892	16.5028	74.6302	4.8413	3.4483
Kaolin-3	0.4711	16.4921	74.6794	4.8281	3.4532
Kaolin-4	0.5814	16.4986	74.6796	4.8460	3.4570
Kaolin-5	0.5375	16.4457	74.6653	4.8253	3.4422
Kaolin-6	0.5425	16.4979	74.6883	4.8258	3.4540
Kaolin-7	0.5494	16.4726	74.6485	4.8116	3.4443
Kaolin-8	0.4972	16.4997	74.7446	4.8327	3.4443
Kaolin-9	0.5439	16.5299	74.6029	4.8235	3.4394
Kaolin-10	0.4972	16.4562	74.6771	4.8126	3.4386
Kaolin-11	0.5773	16.5287	74.7196	4.8233	3.4478
Average value	0.5331	16.4769	74.6729	4.8270	3.4441
Range	0.1181	0.2076	0.1416	0.0343	0.0409
Standard deviation	0.0418	0.0576	0.0388	0.0104	0.0110
Relative standard deviation	7.8326	0.3495	0.0520	0.2147	0.3207



## Mineral Analysis-Zinc (Zn)



Repeatability

Name	Pb	Zn	Cu	Fe	Ca	Si	S	Mg	Al
1	53.62	5.05	3.56	10.11	1.19	3.98	14.16	0.28	0.27
2	53.45	4.95	3.48	9.91	1.28	3.37	15.30	0.32	0.26
3	53.32	5.15	3.49	9.89	1.32	3.54	15.23	0.20	0.26
4	53.84	5.13	3.29	9.94	1.26	3.46	14.98	0.35	0.24
5	53.42	5.07	3.88	9.69	1.25	3.37	15.36	0.61	0.25
6	53.79	5.09	3.46	10.10	1.24	4.12	15.48	0.29	0.28
7	53.23	5.04	3.48	9.97	1.28	3.84	14.98	0.44	0.26
8	53.31	5.06	3.64	9.66	1.19	3.21	14.65	0.52	0.24
9	53.80	5.13	3.54	9.76	1.34	3.94	14.32	0.42	0.27
10	53.19	5.01	3.31	9.82	1.27	4.16	15.04	0.37	0.26
11	52.86	5.34	3.67	9.24	1.60	3.72	14.16	0.43	0.29
Average value	53.44	5.09	3.53	9.83	1.29	3.70	14.86	0.38	0.26
Standard deviation	0.30	0.10	0.17	0.24	0.11	0.33	0.48	0.12	0.02
Relative standard deviation	0.57	1.96	4.68	2.48	8.64	8.90	3.25	30.37	5.87

## TECHNICAL SPECIFICATIONS

# X-Ray Fluorescence Spectrometer - QualiX™ M1 Technical Specifications

Power	200W
Ambient temperature	15°C - 30°C
Sample chamber size	320 mm × 100 mm
Weight	65 Kg

Voltage input	AC 220V (Optional: 110V)
Ambient humidity	35% - 70%
Instrument dimension	660 mm × 510 mm × 350 mm
Measurable range	Na to U
Analytical range	ppm-99.99%
Simultaneous analysis	20 plus elements
Precision	0.05% (content 96% T)
Testing time	60s-200s
Resolution	(140 ± 5) eV
Tube voltage	5 kV - 50 kV
Tube current	50 u A-1000 11 A



ADVANCED TESTING TECHNOLOGIES

USA | CANADA | UAE | GCC | EU | INDIA | APAC | AFRICA | LATIN AMERICA

## Connect with us

Contact our **QualiTeam** today to find out how we can help your organization **select the most suitable testing solution** for your application, requirements, and budget.

### Qualitest USA (Corporate Sales Office)

Toll-Free: 1.877.884.TEST (8378) | Fax: 954.697.8211  
E-mail: [info@qualitest-inc.com](mailto:info@qualitest-inc.com)  
Address: 8201 Peters Rd., #1000,  
Plantation, FL 33324, USA.

### Qualitest Canada & International

Tel: +1.905.944.9825 | Fax: +1.905.944.0304  
E-mail: [sales@qualitest-inc.com](mailto:sales@qualitest-inc.com)  
Address: 70 East Beaver Creek Rd., #9, Richmond Hill,  
Ontario L4B 3B2, Canada.

### Qualitest Latin America (Mexico and LATAM Region)

E-mail: [ventas@qualitest-inc.com](mailto:ventas@qualitest-inc.com)

### Qualitest KSA (Regional Office)

Tel: +966 11 500 6659  
Address: Level 7, 3.09, District 3, King Abdullah  
Financial District, Riyadh, Saudi Arabia

### Qualitest Singapore (ASIA PACIFIC Regional Office)

Tel: +65 6393 5480 | E-mail: [singapore@qualitest-inc.com](mailto:singapore@qualitest-inc.com)  
Address: 50 Raffles Place, Singapore Land Tower,  
Level 46, Singapore, 048623.

### Qualitest Indonesia (Representative Office)

Tel: +62 21 2985 9522 | Fax: +62 21 2985 9889  
E-mail: [indonesia@qualitest-inc.com](mailto:indonesia@qualitest-inc.com)  
Address: One Pacific Place Level 11, Jl. Jend. Sudirman,  
Kav. 52-53, SCBD Area, Jakarta 12190, Indonesia.

### Qualitest FZE (Regional GCC/ME Office)

Tel: +971 4 8819252 | Fax: +971 4 8819262  
Email: [gcc@qualitest-inc.com](mailto:gcc@qualitest-inc.com)  
Address: Jafza One, BB 1610, Jebel Ali Free Zone,  
PO Box 261440, Dubai, UAE.

### Qualitest India

E-mail: [india@qualitest-inc.com](mailto:india@qualitest-inc.com)  
Address: 15th Floor, Dev Corpora, Pokhran Road No.1,  
Eastern Express Highway, Thane, Maharashtra,  
Mumbai, 400601, India

