

RoHS/Compliance Testing Getting Started Guide

- Check your instrument window: Is the correct window installed? Is it intact? Clean it with an alcohol/wet wipe.
- Check your Test Times, Beam Classification, and Test End Condition settings (right)
- Customize your Method Display settings to meet the needs of your testing procedure (lower right)
- Make sure User Factors is turned off (set to None), unless needed.
- Have the collimator turned off unless specifically needed (below).
- Enable a RoHS Notes template if metadata to accompany test results is needed.
- Select RoHS export template with an appropriate RoHS template under Export Settings. Export to USB memory stick for convenience.



M-Series: Proline



C-Series: Kapton Mesh

Beam	Min	Max
Plastic 1	0	30
Alloy 1	0	60
Plastic 2	0	30
Alloy 2	0	60

Auto

Test end condition

Maximum Time *If only testing one type of material, "force" the beam setting.*

Classification *If testing aluminum, be sure to select "Forced Alloy"*

Action Level

● Captured Screenshot to SD card OLYMPUS

Beam	Min	Max
Plastic 1	0	30
Alloy 1	0	60
Plastic 2	0	30
Alloy 2	0	30

Auto

Auto

Forced Polymer

Forced Alloy

Test end condition

Test end condition

● OLYMPUS

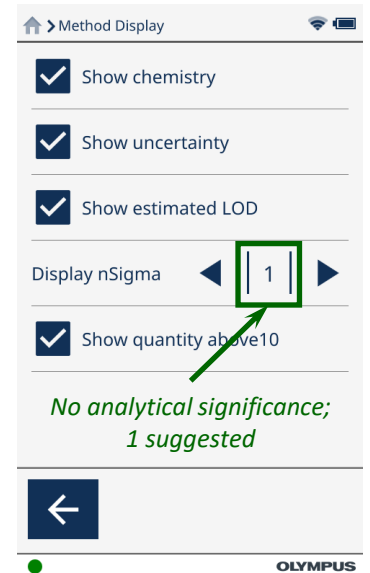
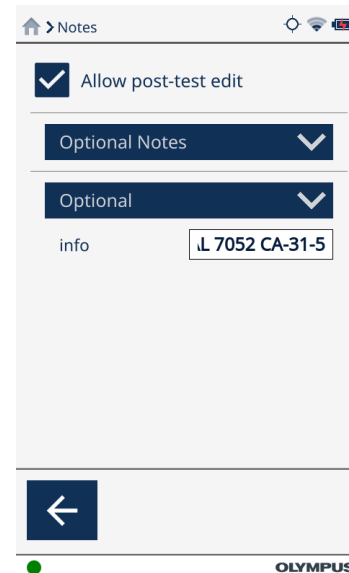
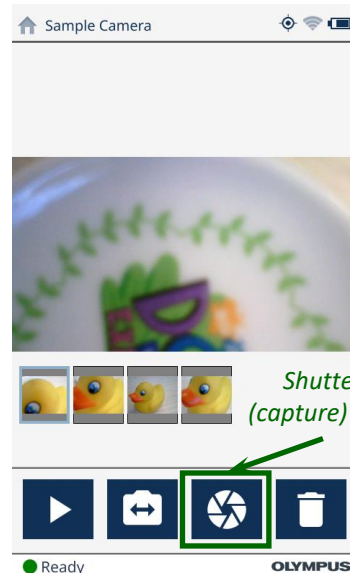
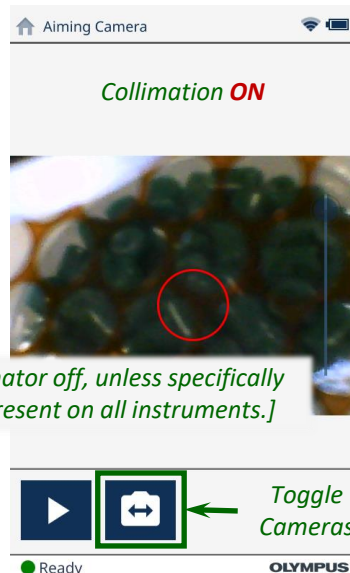
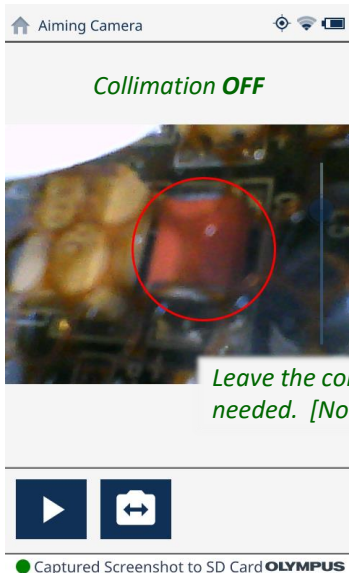
Additional Online Resources:



[Quick Start Guide for Vanta M, C, and L Series Analyzers](#)



[RoHS Screening Tips to Minimize Inconclusive Readings](#)



● Captured Screenshot to SD Card OLYMPUS

● Ready OLYMPUS

● Ready OLYMPUS

● OLYMPUS

● OLYMPUS

RoHS/Compliance Testing Getting Started Guide

Feb 01-1
RoHS Plus
Polymer - **Pass**

El	PPM	+/- 3σ	
Cr	ND	<250	Pass
Hg	ND	<240	Pass
Cd	ND	<180	Pass
Br	ND	<140	Pass
Pb	ND	<23	Pass

Notes
Image

Ready OLYMPUS

Feb 01-2
RoHS Plus
Polymer - **Fail**

El	PPM	+/- 3σ	
Br	1310	100	Fail
Cd	137	27	Fail
Pb	59	22	Pass
Cr	ND	<210	Pass
Hg	ND	<15	Pass

Notes
Image

Ready OLYMPUS

Element Suite - RoHS Plus

Beam 1: 50.0 kV
Cl, Ca, Ti, Cr, Mn, Fe, Co, Ni, Cu, Zn, As, Se, Br, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Au, Hg, Pb, Bi, LE

Beam 2: 50.0 kV
Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Se, Br, Zr, Nb, Mo, Ag, Cd, Sn, Sb, Hf, Ta, W, Au, Hg, Pb, Bi, LE

Beam 3: 30.0 kV
Cl, Ca, Ti, Cr, Mn, Fe, Co, Ni, Cu, Zn, As, Se, Br, Sr, Zr, Mo, Sn, Sb, Ba, Au, Hg, Pb, Bi, LE

Beam 4: 30.0 kV
Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Se, Br, Zr, Nb, Mo, Ag, Sn, Sb, Hf, Ta, W, Au, Hg, Pb, Bi, LE

Ready OLYMPUS

Element Suite - RoHS Plus

Beam 1: 50.0 kV
Se, Br, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Au, Hg, Pb, Bi, LE

Beam 2: 50.0 kV
Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Se, Br, Zr, Nb, Mo, Ag, Cd, Sn, Sb, Hf, Ta, W, Au, Hg, Pb, Bi, LE

Beam 3: 30.0 kV
Cl, Ca, Ti, Cr, Mn, Fe, Co, Ni, Cu, Zn, As, Se, Br, Sr, Zr, Mo, Sn, Sb, Ba, Au, Hg, Pb, Bi, LE

Beam 4: 30.0 kV
Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Se, Br, Zr, Nb, Mo, Ag, Sn, Sb, Hf, Ta, W, Au, Hg, Pb, Bi, LE

Ready OLYMPUS

Element Order

- Cr
- Mn
- Fe
- Co
- Ni
- Cu
- Zn
- As
- Se
- Br

Ready OLYMPUS

The Vanta comes pre-programmed with the IEC RoHS guidelines action levels but users can customize these action levels to whatever is needed for your application.

RoHS Action Level

IEC

nSigma 3

Alloy

El	Fail cutoff	Pass cutoff
Cd	130	70
Cr		700
Hg	1300	700
Pb	1300	700

Mixed

Ready OLYMPUS

RoHS Action Level

Mixed

El	Fail cutoff	Pass cutoff
Br		250
Cd	150	0
Cr		500
Hg	1500	500
Pb	1500	500

Polymer

El	Fail cutoff	Pass cutoff
Br		300
Cd	130	70

Ready OLYMPUS

RoHS Action Level

Polymer

El	Fail cutoff	Pass cutoff
Cd	150	0
Cr		500
Hg	1500	500
Pb	1500	500

Ready OLYMPUS

RoHSPlus

- 2 Alloy Beams
 - 50 KV (superior for Cd)
 - 30 KV (superior for Cr)
- 2 Polymer Beams
 - 50 KV (superior for Cd)
 - 30 KV (superior for Cr)

By default, most elements are turned off (unchecked) so that they don't display. This simplifies the results display. But any element of interest can be turned back on.

Element Order

- Cd
- Sn
- Sb
- Ba
- Hf
- Ta
- W
- Au
- Hg
- Pb

Ready OLYMPUS