Form #: T06-13 **Official Test Report**
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RoHS Analysis

This report contains the results of the RoHS analysis for the circuit component sample submitted by John Smith on 8/29/2014.

RoHS Analysis

LCM Sample ID	Client Sample ID	RoHS Limits	Results
14.999-01 White Paint	8 pin plastic component P/N: 000001	**Cr = 0.1%** **Hg = 0.1%** **Pb = 0.1%** **Br = 0.1% PPB, PBDE** **Cd = 0.01%**	**Cr:** ND **Hg:** ND **Pb:** ND **Br:** 0.178 % **Cd:** ND **FTIR Analysis:** No PPB or PBDE
14.999-01 Plastic	8 pin plastic DIP AD846BN	**Cr = 0.1%** **Hg = 0.1%** **Pb = 0.1%** **Br = 0.1% PPB, PBDE** **Cd = 0.01%**	**Cr:** ND **Hg:** ND **Pb:** ND **Br:** < 0.05% **Cd:** ND **FTIR Analysis:** N/A
14.999-01 Inside Metal	8 pin plastic component P/N: 000001	**Cr = 0.1%** **Hg = 0.1%** **Pb = 0.1%** **Br = 0.1% PPB, PBDE** **Cd = 0.01%**	**Cr:** ND **Hg:** ND **Pb:** ND **Br:** 0.052% **Cd:** ND **FTIR Analysis:** N/A
14.999-01 Pins	8 pin plastic component P/N: 000001	**Cr = 0.1%** **Hg = 0.1%** **Pb = 0.1%** **Br = 0.1% PPB, PBDE** **Cd = 0.01%**	**Cr:** ND **Hg:** < 0.05% **Pb:** ND **Br:** ND **Cd:** ND **FTIR Analysis:** N/A

Comment

The sample was analyzed by Amptek XRF and Thermo Nicolet FTIR (when Br levels exceeded acceptable levels). ND denotes that substance levels were below the detection limit of our instrument. If RoHS elements were detected, but below half of the acceptable limits, the levels are reported as < X%, where "X" is half of the published RoHS limit. In some of the plastic pieces, Br elemental levels were above the accepted limits of either polybrominated biphenyls (PPB) or polybrominated diphenyl ether (PBDE). For each occurrence, the portion of the sample that showed high Br counts was tested by FTIR. FTIR determined that the plastic casing is silicone-based plastic with non-phthalate brominated flame retardants. No PPB or PBDE were detected. A number of phthalate-free bromine-based fire retardants are now in common use, such as SAYTEX 8010.

All locations tested are within acceptable RoHS levels.

XRF spectra were collected from the following locations:

- White Paint: painted on white label on the top of the component (Figure 1)
- Top Plastic: bare black plastic on the top of the component (Figure 1)
- Bottom Plastic: the center of the bottom of the component (Figure 2)
- Inside Top Metal: white substance on the inside surface of the top plastic piece (Figure 3)
- Inside Bottom Metal: metal piece on the inside the bottom plastic piece (Figure 4)
- Pins: the connection pins of the component removed and laid next to each other to ensure good XRF signal

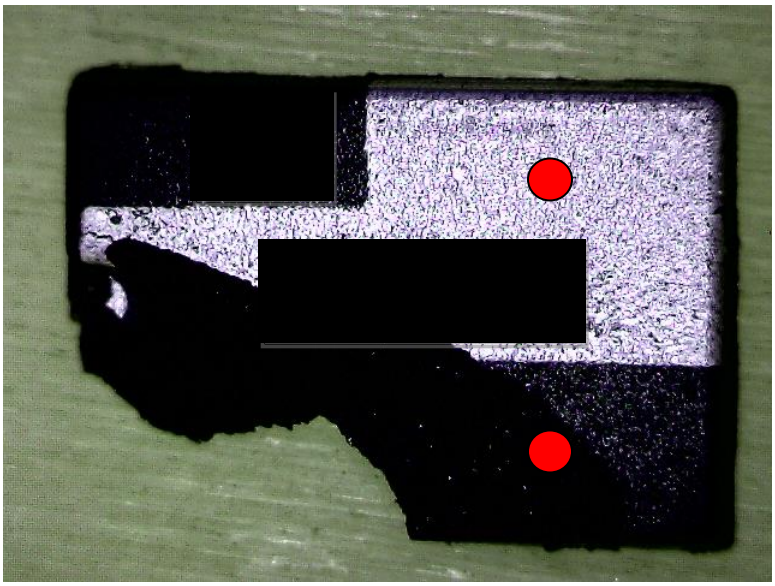

Figure 1. Photo showing the approximate locations of XRF spectra on the top plastic piece.

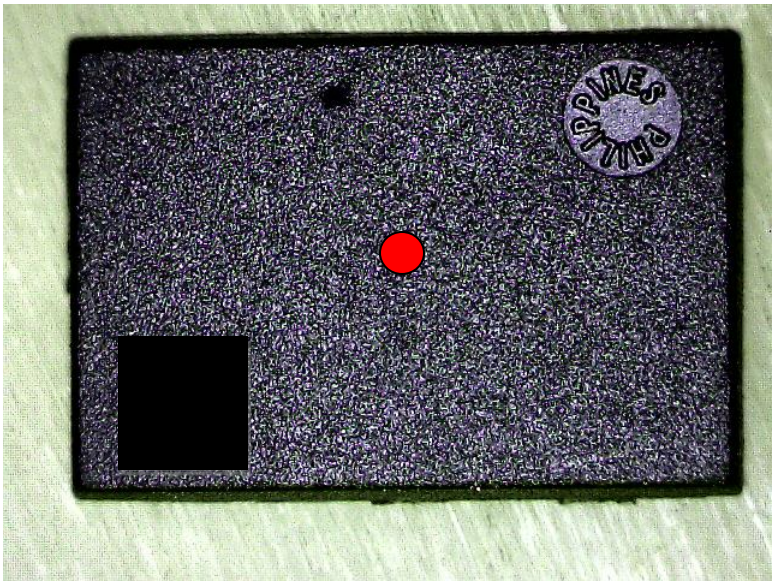

Figure 2. Photo showing the approximate location of XRF spectrum on the bottom plastic piece.

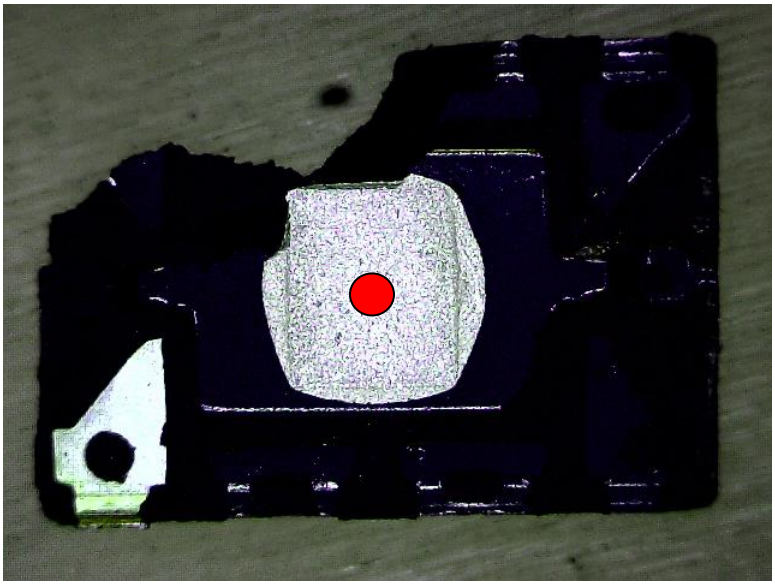

Figure 3. Photo showing the approximate location of XRF spectrum on the inside of the top plastic piece.

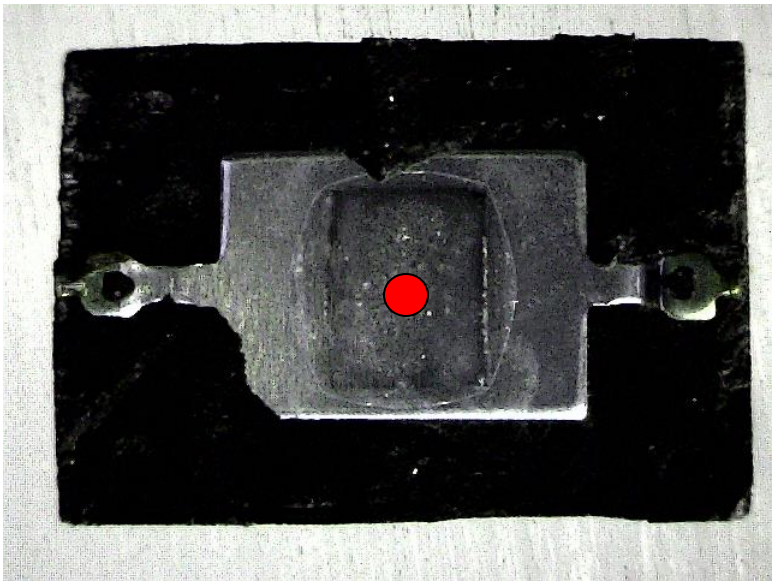

Figure 4. Photo showing the approximate location of XRF spectrum on the inside of the bottom plastic piece.

The results presented in this report relate only to the samples tested.

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