



## Paint Quality Control Analysis

**Client:** Russ Hayden  
**Institution:** Ameri-Paint, LLC  
**PO Number:** Prepaid Check # 1888

**Project No:** G944  
**Date:** July 5, 2006

---

---

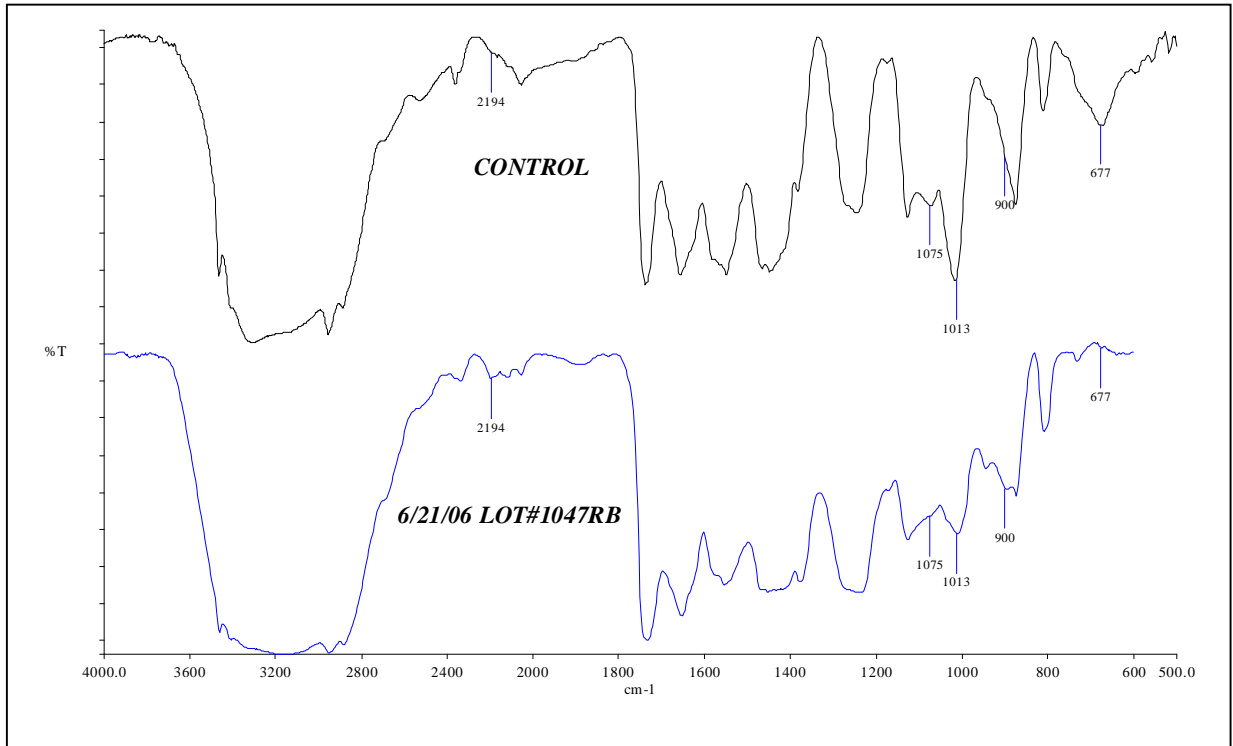
***SUMMARY:*** A paint sample was weighed, dried and analyzed by Fourier transform infrared (FTIR) spectroscopy. Small differences were seen between the two spectra that could indicate small differences in composition.

**DESCRIPTION OF SAMPLES:**

<u>Sample No.</u>	<u>Client No.</u>
M32154-1	Control
G944-01	Contego Fire Barrier Latex Primer – 6/21/06 Lot#1047RB

***PREPARATION AND ANALYSIS:*** After stirring the sample with a glass rod, a small amount of paint was placed on one or more pre-weighed glass slides and allowed to dry. The slides with dried paint were reweighed and then one or more portions of the dried sample were placed between two diamond flats for FTIR analysis. After smoothing and background correction, the spectra were compared to the control sample.

***DISCUSSION OF RESULTS:*** Upon drying, the control sample lost about 43.5% by weight (solvent loss) and the “Contego Fire Barrier Latex Primer – 6/21/06 Lot#1047RB” sample lost  $43.1 \pm 0.25\%$ . Figure 1 shows FTIR spectra from sample “Contego Fire Barrier Latex Primer – 6/21/06 Lot#1047RB” and from the control. Small differences in the spectra (see the labeled peaks) could indicate small differences in the composition of the sample compared to that of the control.



**FIG. 1 – FTIR DATA  
NOTE SMALL DIFFERENCES NOTED BETWEEN THE TWO SPECTRA LABELED  
BY PEAK POSITION**

Garth B. Freeman, Ph.D.  
Senior Consultant