











## <section-header><list-item><list-item><list-item><list-item>



















Primary Wile	dfire Sm	noke R	esidue
Percentage of so in 2,058 sample	amples with = es collected fro	⇒ 1% residu om 343 hous	ies Ses
LOCATION	CHAR	ASH	SOOT
SAMPLES (Positive)	368	37	4
SAMPLES (%)	17.9%	1.8%	0.2%
Window Sills	39.7 %	2.6 %	0.6 %
<b>Exterior Surfaces</b>	38.5 %	5.8 %	0.6 %
Interior Surfaces	14.3 %	1.2 %	
Attic Surfaces	9.0 %	1.2 %	
Return Plenums	4.4 %		
Clothing	1.5 %	1000	

fc	or 199 Ir	npacted	d Houses	*
%-CHAR	Exteriors	Attics	Window Sills	Interiors
SAMPLES	132	31	136	49
1% - 2%	0.8%	3%	56%	55%
3% - 5%	19%	26%	14%	12%
>5% - 10%	18%	13%	0.7%	0%
>10%	61%	58%	29.4%	26.5%
Range >10%	15% - 80%	15% - 60%	15% - 90%	15% - 99%

55% of samples collected from interior surfaces, potentially those most likely to be used to assess impact, had an AVERAGE char concentration of 1%-2% [less than 3%].











149 houses in wh sills or interior ha	ich char was de ard surfaces	etected on e	ither interior window	
Asking if we coul	d predict %-ch	ar R Value	Could maybe do	
Hard Surfaces	Window Sills	0.23	this if $r = 0.9$ or	
Attic Surfaces	Window Sills	0.17	higher	
Exterior Surfaces	Window Sills	0.37	IMPORTANT RESULT !!	
Exterior Surfaces	Attic Surfaces	0.21		









Comparison of Methods					
Sampling and analytical methods should be compared using a standardized format that includes relevant parameters					
PARAMETER	TAPE LIFT	WIPE	MICRO-VAC		
Sample Area	Defined	Template	Template		
Surface Contour	Flat	Intricate	Intricate		
Analyte Positioning	Good	Poor	Poor		
<b>Collection Efficiency</b>	Adhesion; Dust Layer	Good	Good		
<b>Obscuration</b> , Debris	As Collected	Dispersed	Dispersed		
Homogeneity, Analy	As Collected	Dispersal	Dispersal		
Analysis	Optical methods, SEM (adhesive limits RI)	Optical methods, TEM, SEM/EDX, spectrometric,	Optical methods, TEM SEM/EDX, spectrometric,		



