



























## BIOCHEMISTRY DEPARTMENT

GREENSBORO, N.C.

PAGE 13 of 14	METHOD No. AG-325	SUBJECT Gas Chromatographic Residue Determination of CGA-48988 in Crop Samples
EDITION 4/17/78		
SUBMITTED BY: 5.1.2.e Woo		APPROVED BY:

TABLE I: GAS CHROMATOGRAPHIC CONDITIONS

<u>Instrument</u>	Tracer 220 equipped with an Alkali flame ionization detector (Perkin Elmer)
<u>Column Packing</u>	10% DC 200 on Gas Chrom Q (80/100 mesh)
<u>Column</u>	Pyrex 6 x 4 mm i.d.
<u>Temperatures</u>	
<u>Column</u>	120°C
<u>Injector</u>	265°C
<u>Detector</u>	255°C
<u>Gas Flows</u>	
He carrier	60 ml/min.
H <sub>2</sub> reaction gas	3.0 ml/min (regulated)
Compressed air	200 ml/min.
<u>Attenuation</u>	1 x 8
<u>Bead Current Setting</u>	7.0
<u>Minimum Detection Limit</u>	1 nanogram
<u>Volumes Injected</u>	2-8 µl
<u>Chart Speed</u>	1 cm/minute
<u>Retention Time</u>	3.5 minutes

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TABLE II: TYPICAL STANDARD CURVE

<u>Amount CGA-48988 injected (ng)</u>	<u>Peak height (cm)</u>
1.0	1.9
2.0	3.4
4.0	6.9
8.0	13.5
2.0	3.5
6.0	9.8

See Figure 2 for plot

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