

To:

Test report

Title: 鸡皮鸡肉拉曼光谱测量

Tester: 丁海峰

Date: 27/09/2010

Ocean Optics Asia

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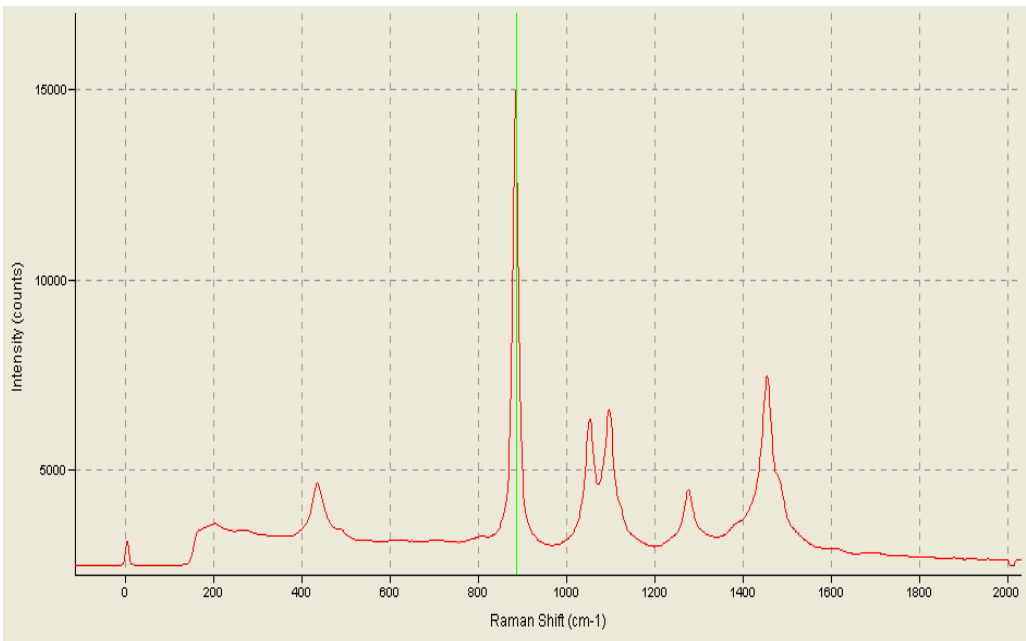
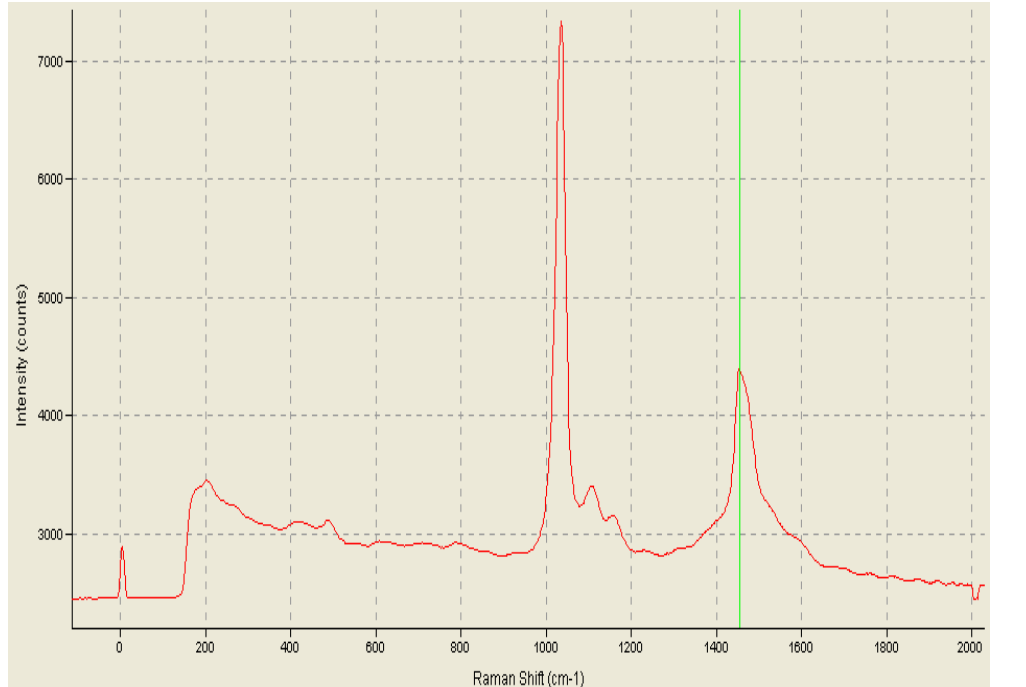
Test condition



Sample	乙醇（分析纯）、甲醇（分析纯）、市售冷冻鸡皮鸡肉		
Light source	785nm激光器		
Fiber	RPF拉曼探头		
Spectrometer	Type	QE65000	
	Wavelength range	778-933nm	Resolution
	Slit	50um	Detector
	A/D		S:N ratio
	OF1/OFLV	-	L2/L4
	Serial Number	QEA0282	
	Note		
Ambiance condition			
	Temperature		Humidity Room Normal
	Note		
Accessory	拉曼支架/石英比色皿, Spectrasuite操作软件		
Note	积分时间: 5s;扫描平均: 1;平滑: 1;		

Tester: 丁海峰
Date: _____

Specification for test result

说明: 通过测量纯乙醇的拉曼光谱发现乙醇在884cm⁻¹, 1453cm⁻¹等频移处有拉曼发射峰与文献相符; 因此仪器没有问题。
测量冷冻鸡皮、鸡肉, 拉曼图谱如后页所示, 两者均存在拉曼峰, 鸡皮拉曼峰更显著一些。

Description for chart	<p>图1：纯乙醇（及石英比色皿）拉曼光谱 图2：纯甲醇（及石英比色皿）拉曼光谱 积分时间：5s,扫描平均：1,平滑：1</p>
Chart 1	 <p>The Raman spectrum for pure ethanol shows intensity in counts on the y-axis (0 to 15000) and Raman Shift in cm-1 on the x-axis (0 to 2000). A prominent peak is observed at approximately 900 cm-1, reaching an intensity of about 15000 counts. Other significant peaks are located at approximately 450, 1050, 1100, 1250, and 1450 cm-1.</p>
Chart 2	 <p>The Raman spectrum for pure methanol shows intensity in counts on the y-axis (0 to 7000) and Raman Shift in cm-1 on the x-axis (0 to 2000). A prominent peak is observed at approximately 1050 cm-1, reaching an intensity of about 7000 counts. Another significant peak is located at approximately 1450 cm-1, reaching an intensity of about 4500 counts.</p>

<p>Description for chart</p>	<p>图3: 市售冷冻鸡皮拉曼光谱 图4: 市售冷冻鸡肉拉曼光谱 积分时间: 5s, 扫描平均: 1, 平滑: 1</p>
<p>Chart 3</p>	 <p>The Raman spectrum for frozen chicken skin shows intensity in counts on the y-axis (ranging from 2500 to 4000) and Raman Shift in cm-1 on the x-axis (ranging from 0 to 2000). A prominent peak is observed at approximately 1450 cm-1, marked by a vertical green line. Other significant peaks are visible at approximately 200, 850, 1100, and 1650 cm-1.</p>
<p>Chart 4</p>	 <p>The Raman spectrum for frozen chicken meat shows intensity in counts on the y-axis (ranging from 2400 to 2800) and Raman Shift in cm-1 on the x-axis (ranging from 0 to 2000). A sharp peak is observed at approximately 1450 cm-1, marked by a vertical green line. Other peaks are visible at approximately 100, 200, 400, and 1650 cm-1.</p>