

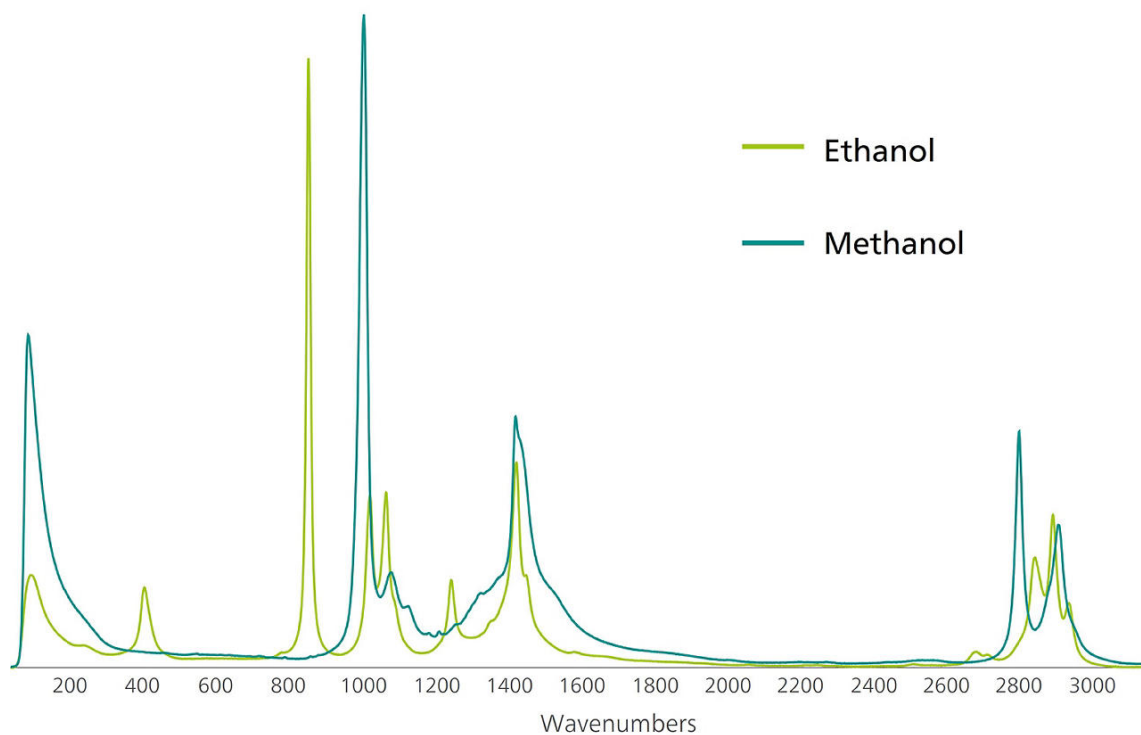


Application Note 410000019-B

拉曼光法定工假酒中的甲醇

,,,[1-3]
20129,20[2],,

,,, $(\text{CH}_3\text{CH}_2\text{OH})(\text{CH}_3\text{OH})$,1



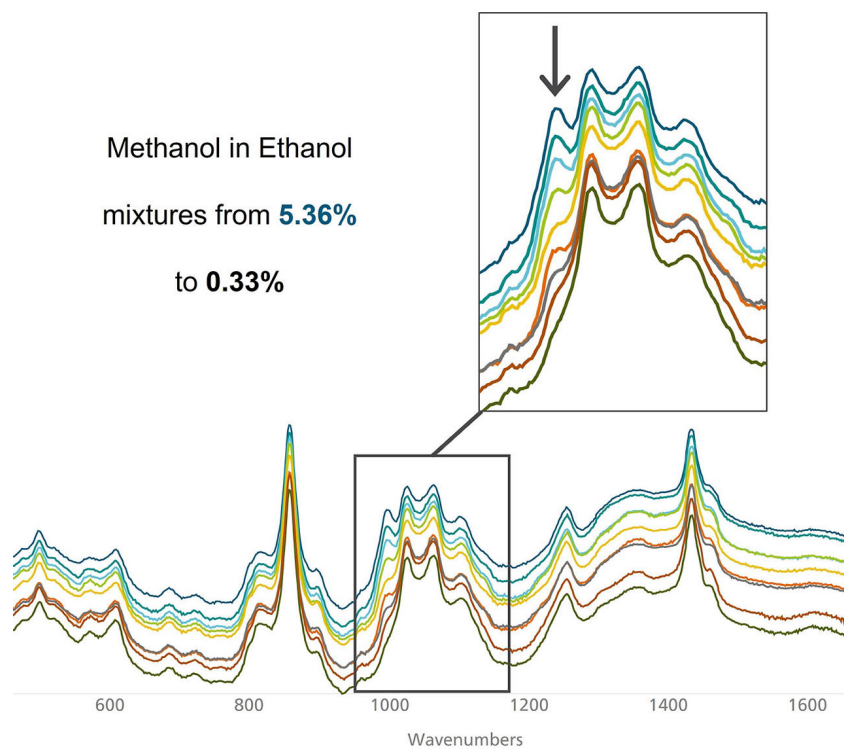
1.

: 1%,
-
-



我在市售朗姆酒中入了度在0.33%和5.36%之的甲醇。
i-Raman® Plus是一套敏的高分辨率室系,配有光探

,用于收集混合物的拉曼光,如2所示。表1列出了用于
本用研究的相和器置。



2.

1000 cm^{-1} , 1%

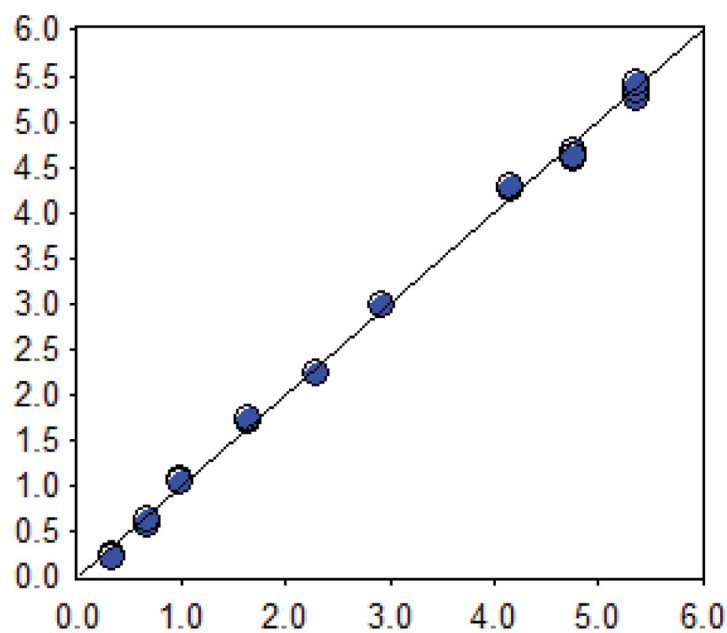
1,

i-Raman Plus 785S	100
	20s
Vision	1

Vision,(PLS)920-1580 cm^{-1} 3,(RMSECV)0.1069(2)2

R^2 0.9977

Calibration Set : Calculated vs Lab Data



3.

2. PLS,i-Raman Plus 7855

R2	0.9977
	0.0976
	0.1069

„ [4]

1. Lachenmeier, D. W.; Schoeberl, K.; Kanteres, F.; Is Contaminated Unrecorded Alcohol a Health Problem in the European Union? A Review of Existing and Methodological Outline for Future Studies. *Addiction* **2011**, *106* (s1), 20–30. <https://doi.org/10.1111/j.1360-0443.2010.03322.x>.
2. Spritzer, D.; Bilefsky, D. Czechs See Peril in a Bootleg Bottle. *The New York Times*. USA September 17, 2012.
3. Collins, B. Methanol Poisoning: The Dangers of Distilling Spirits at Home. *ABC*. Australia June 13, 2013.
4. Gryniewicz-Ruzicka, C. M.; Arzhantsev, S.; Pelster, L. N.; et al. Multivariate Calibration and Instrument Standardization for the Rapid Detection of Diethylene Glycol in Glycerin by Raman Spectroscopy. *Appl Spectrosc* **2011**, *65* (3), 334–341. <https://doi.org/10.1366/10-05976>.

CONTACT

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i-Raman Plus 785S

i-Raman[®] Plus 785S i-Raman ,TE CCD , 30 ,,

i-Raman Plus 785S , 65 cm⁻¹ 3350 cm⁻¹ ,, i-Raman Plus , XYZ BWIQ[®] BWID[®] i-Raman Plus,



, BAC100/BAC102, 9.5 mm 15 mm 6 (15 mm)



Vision 4.1

Vision , B&W Tek Metrohm XDS NIRS , Vision,