

Thin Film Metallic Glass

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Syringe testing

Instrument:

Agilent 6890 GC with 7673C autosampler

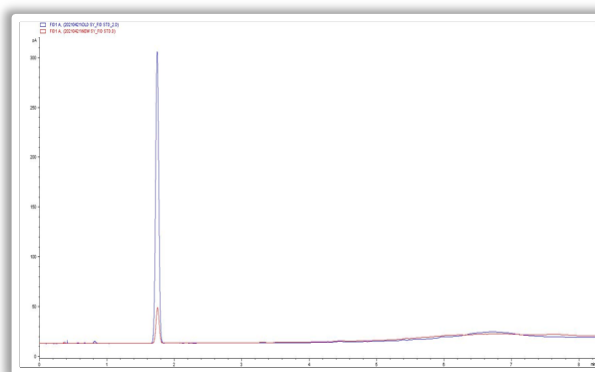
Syringe: 10 μ l, FN23-36/42/HP with TFMG coating on tips.



Agilent 6890 GC + 7673C autosampler

Standards testing

Regarding to our testing by manual sample injection, the data show us: TFMG coating for S/N ratio is lower than bare which elucidated for less contamination in system methods running.



Caffeine standards



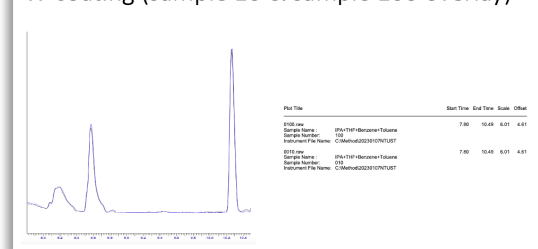
PerkinElmer 690 GC/MS

透過與 PE 合作，使用更好的設備在不同的金屬成分（Zr, W, Cu, Co..等）用於 syringe 鍍膜下，進行一年以上的測試。

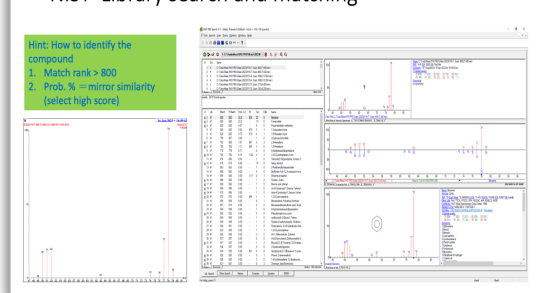
More than 200 injections

使用 8 種不同的有機溶劑，進行耐受性與重複性的測試，結果證明 TFMG coating 可以降低樣品在 syringe 的殘留量。

W-coating (sample 10 & sample 100 overlay)



NIST- Library search and matching

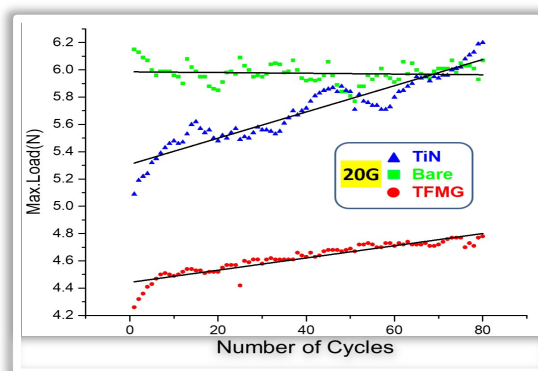


No substances released

透過 Clarus SQ8 GC/MS 的 Nist-Library search, 在 injector 端約 250~300 degree 的溫度下測試超過 100 次以上的樣品進樣，我們沒有發現有任何來自 TFMG 析出物質存在。

Patents

- Thin Film Metallic Glass Coated Needle, US Patent No. 9,840,798 B2, 2015/10/22-2035/10/22.5.
- Medical needle and method of maintaining sharpness of needle, US Patent No. 10,668,189 B2, 2020/06/02-2038/09/06.



Suitable applications: Food Safety (Pesticides residue), Medical device, Residue solvents in Pharm and semi-volatile organic compounds in Environmental.



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