Agilent Technologies

ULTRA SCIENTIFIC Analytical Solutions

Certificate of Analysis

EN12916:2006, IP391/07 System Calibration Standards 1 and 2 (SCS1 and SCS2)

Aromatic Hydrocarbon Test Method for Diesel and Petro/Biodiesel Analysis

Agilent Part Number: **5190-0485**

Kit Lot Number: **N80624**

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The certified value and uncertainty value for each analyte was determined gravimetrically.

Vial	Lot #	Analyte	CAS#	Purity*	Certified Value	
5190-0485-1	N80624-1	cyclohexane	000110-82-7	99+%	10.0 ± 0.1	mg/mL
		1-phenyldodecane	000123-01-3	98+%	1.00 ± 0.01	mg/mL
		o-xylene	000095-47-6	98+%	5.02 ± 0.03	mg/mL
		hexamethylbenzene	000087-85-4	98+%	1.00 ± 0.01	mg/mL
		naphthalene	000091-20-3	98+%	1.00 ± 0.01	mg/mL
		dibenzothiophene	000132-65-0	98+%	0.502 ± 0.003	mg/mL
		9-methylanthracene	000779-02-2	98+%	0.501 ± 0.003	mg/mL
5190-0485-2	N80624-2	hexadecanoic acid methyl ester	000112-39-0	98+%	802 ± 4	µg/mL
		octadecanoic acid methyl ester	000112-61-8	98+%	802 ± 4	µg/mL
		oleic acid methyl ester	000112-62-9	98+%	802 ± 4	µg/mL
		linoleic acid methyl ester	000112-63-0	98+%	803 ± 4	µg/mL
		linolenic acid methyl ester	000301-00-8	98+%	803 ± 4	µg/mL
		chrysene	000218-01-9	98+%	401 ± 2	µg/mL

Solvent: n-heptane

ULTRA Scientific uses calibrated Class A glassware and clean bottles in the manufacture of ULTRA standards. Balances used in the manufacture of this standard are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001.

Date of release: **10 September 2012**
Date of expiration: **31 October 2014**
* Purity values updated on 12 November 2014

William J. Leary
Quality Assurance Manager

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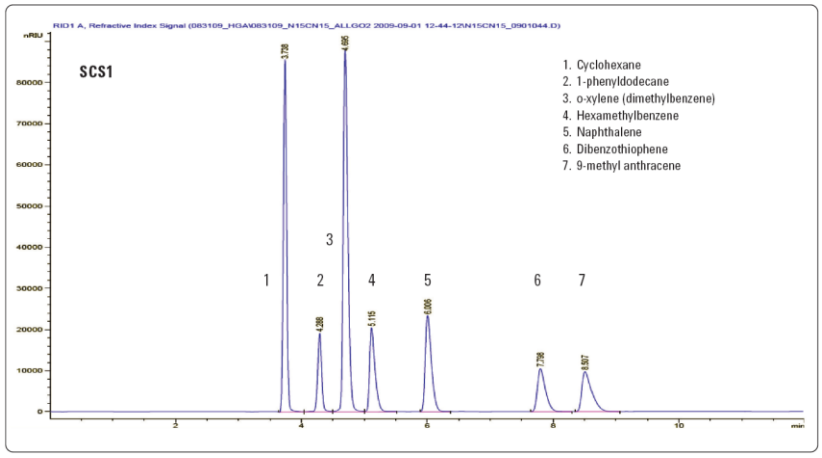
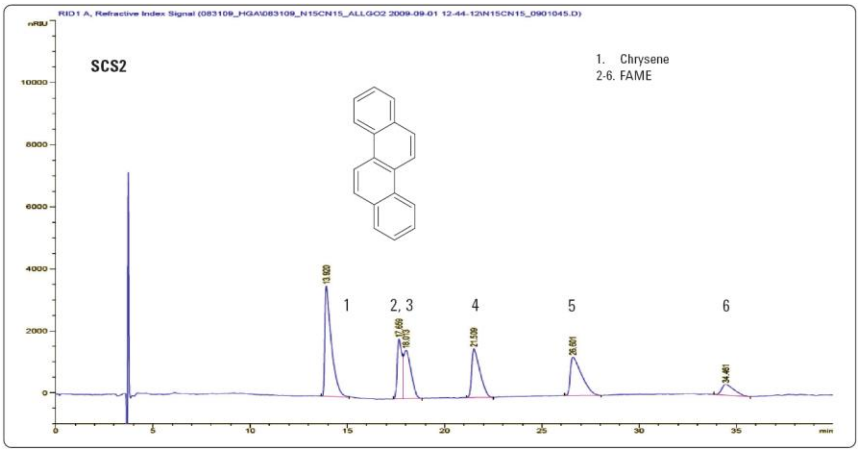
Instrument Method Conditions:

Instrument and method conditions used must be fully compliant with the IP391:2006 requirement.

Mobile phase: n-heptane at 1ml/min flow rate.
Column: ZORBAX NH2 4.6x150mm, 5um, and ZORBAX (RP) SB-CN 4.6x150mm, 5um, in series.
Column Temperature: 25°C.
Detector: Refractive Index, 35°C.

Example Signal Traces





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