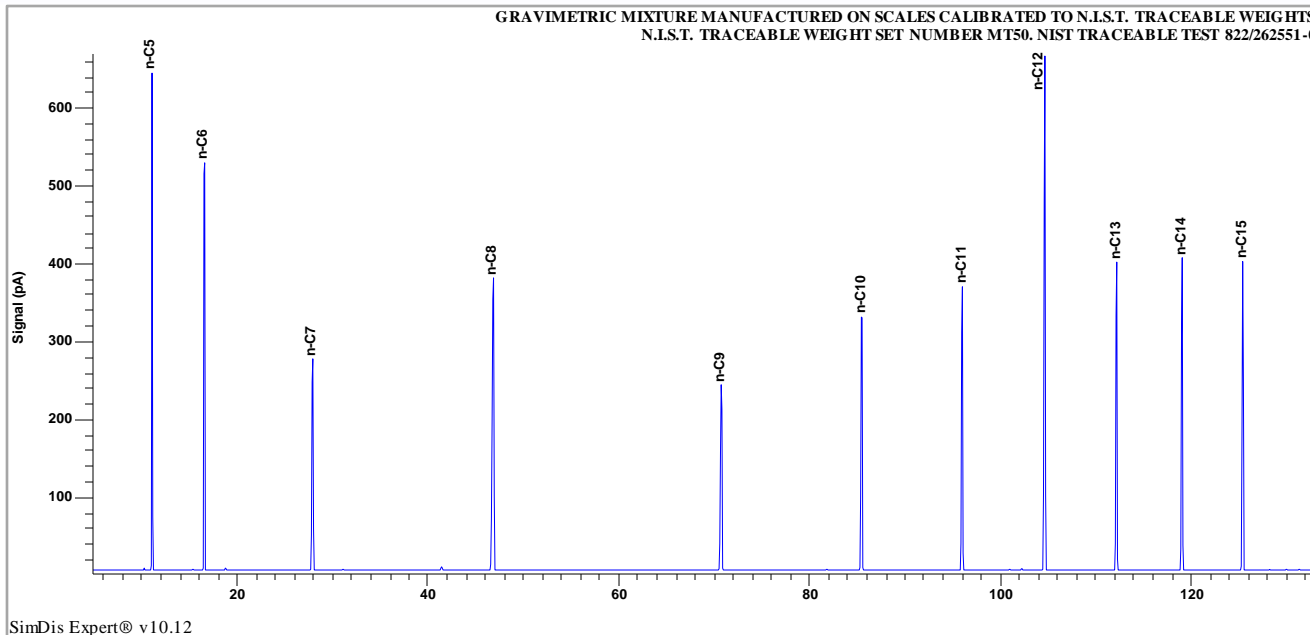


Certificate of Analysis

SD-040 Lot # 051519ES

GRAVIMETRIC MIXTURE MANUFACTURED ON SCALES CALIBRATED TO N.I.S.T. TRACEABLE WEIGHTS
N.I.S.T. TRACEABLE WEIGHT SET NUMBER MT50, NIST TRACEABLE TEST 822/262551-0



SD-040 Valve Timing Standard for Detailed Hydrocarbon Analysis (DHA)

Lot #: 051519ES Exp: May 2024

Column: SD-009 (100m x 0.25mm x 0.5 μ m) **Inlet:** S/SL at 275°C with 150:1 split **Carrier:** UHP He at 1.8 mL/min (constant flow)
Oven: 35°C (13 min hold) to 45°C at 10°C/min (15 min hold) to 60°C at 1°C/min (15 min hold) to 220°C at 2°C/min (5 min hold) to 275°C at 10°C/min
Detector: FID at 285°C **Injection Volume:** 0.2 μ L

Component	Concentration (wt.%)	Deviation (wt.%)
<i>n</i> -Pentane <i>n</i> -C ₅	6.29	0.11
<i>n</i> -Hexane <i>n</i> -C ₆	7.28	0.08
<i>n</i> -Heptane <i>n</i> -C ₇	7.18	0.05
<i>n</i> -Octane <i>n</i> -C ₈	14.69	0.09
<i>n</i> -Nonane <i>n</i> -C ₉	7.56	0.01
<i>n</i> -Decane <i>n</i> -C ₁₀	7.76	0.01
<i>n</i> -Undecane <i>n</i> -C ₁₁	7.92	0.02
<i>n</i> -Dodecane <i>n</i> -C ₁₂	16.07	0.09
<i>n</i> -Tridecane <i>n</i> -C ₁₃	8.19	0.06
<i>n</i> -Tetradecane <i>n</i> -C ₁₄	8.32	0.07
<i>n</i> -Pentadecane <i>n</i> -C ₁₅	8.31	0.08
Impurities	0.43	0.08
Total:	100.0	

 **Separation Systems, Inc.**
Experts in Gas Chromatography

Phone 850-932-1433
Sales@SeparationSystems.com
www.SeparationSystems.com