# Certificate of Analysis

Number: 1030-26040367-001A

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Luke Arnsberger
Dolan Intergration Group
11025 Dover St, Ste 800
Westminister, CO 80021

| | | | |
|---|---|---|---|
| Sample ID: | 26041347-001A | Report Date: | 04/22/2026 |
| Station Name: | DCP Wattenburg Pipeline | Sampled By: | |
| Station Number: | Spill ID 493177 | Sample Of: | Liquid Spot |
| Station Location: | Hwy 52 & CR19 (G) 2/2026 | Sample Date: | 04/01/2026 13:17 |
| Cylinder No: | 043483 | Sample Conditions: | |
| Instrument: | PIANO, WT | Received Date: | 04/10/2026 |
| Analyzed: | 04/17/2026 01:22:29 by HKP | Login Date: | 04/13/2026 |
| | | Method: | Proprietary |

## Analytical Data

| **Carbon Range** | C4-C18, C22 | | **Major Range** | C5-C9 | |
|---|---|---|---|---|---|
| **Paraffins** | 29.587 | wt% | **n-Hexane** | 12.679 | wt% |
| **Isoparaffins** | 33.559 | wt% | **Benzene** | 0.937 | wt% |
| **Olefins** | 0.268 | wt% | **2,2,4-Trimethylpentane** | 0.019 | wt% |
| **Naphthenics** | 30.203 | wt% | **Toluene** | 3.136 | wt% |
| **Aromatics** | 6.383 | wt% | **Ethylbenzene** | 0.212 | wt% |
| **Unknowns** | ND | wt% | **m-Xylene** | 0.935 | wt% |
| | | | **p-Xylene** | 0.334 | wt% |
| | | | **o-Xylene** | 0.336 | wt% |
| **C1-C29 Total** | 100.000 | wt% | **Xylenes** | 1.605 | wt% |
| **Naphthalene** | 0.002 | wt% | **n-Heptadecane** | 0.001 | wt% |
| **2-Methylnaphthalene** | ND | wt% | **Pristane** | ND | wt% |
| **1-Methylnaphthalene** | ND | wt% | **n-Octadecane** | 0.001 | wt% |
| | | | **Phytane** | ND | wt% |
| **Oxygenates** | ND | wt% | **Ethanol** | ND | wt% |

ND = Not Detected

| | | |
|---|---|---|
| **Gasoline Range:** | C4 - C13 | Indicators: Isooctane, Olefins |
| **Diesel Range:** | C7 - C20 | Indicators: Pristane, Phytane |
| **Condensate Range:** | C2 - C25 + | Indicators: No Olefins, Light & Heavies |
| **Heavy Oil:** | C20 + | |

**Comments:** Analysis performed on hydrocarbon layer.

Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

## Detailed Hydrocarbon Analysis Report

Operator: Hoang Phung

Raw File: H:\COMPASS\PIANO Dragon II Export\CDF Files Dragon II\1030_HGC26\26040367-001A TopLayer HKP.CDF

Sample File: H:\COMPASS\PIANO Dragon II Export\DHA Results Dragon II\26040367-001A TopLayer HKP_04202026_1417.DHA *

Reference File: H:\COMPASS\PIANO Dragon II Export\Reference DHAs Dragon II\19-01-199-01 GC26 NaphCond 03.26.26 HKP_03272026_1324.DHA

Sample Name: 26040367-001A TopLayer HKP Analyzed: 20-Apr-26, 14:17:59 Acquired: 17-Apr-26 01:22:29 Peaks Processed: 265 Total Area: 489 Normalization Factor: 100%

### Details Report

**Total Hydrocarbons by Group and Carbon Number, Mass %**

| C # | Paraffins | Iso Paraffins | Olefins | Naphthenes | Aromatics | Unknowns | Oxygenates | Total |
|---|---|---|---|---|---|---|---|---|
| C1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C4 | 0.079 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.085 |
| C5 | 3.404 | 1.108 | 0.000 | 0.616 | 0.000 | 0.000 | 0.000 | 5.128 |
| C6 | 12.679 | 9.947 | 0.000 | 9.969 | 0.937 | 0.000 | 0.000 | 33.532 |
| C7 | 9.634 | 10.439 | 0.001 | 15.116 | 3.136 | 0.000 | 0.000 | 38.326 |
| C8 | 3.061 | 8.100 | 0.210 | 3.405 | 1.817 | 0.000 | 0.000 | 16.593 |
| C9 | 0.618 | 3.177 | 0.052 | 0.945 | 0.379 | 0.000 | 0.000 | 5.171 |
| C10 | 0.089 | 0.672 | 0.005 | 0.150 | 0.104 | 0.000 | 0.000 | 1.020 |
| C11 | 0.015 | 0.082 | 0.000 | 0.000 | 0.007 | 0.000 | 0.000 | 0.104 |
| C12 | 0.003 | 0.017 | 0.000 | 0.002 | 0.002 | 0.000 | 0.000 | 0.024 |
| C13 | 0.001 | 0.001 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.003 |
| C14 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 |
| C15 | 0.000 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.008 |
| C16 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 |
| C17 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 |
| C18 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 |
| C19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C20 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C21 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C22 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 |
| C23 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C24 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C25 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C26 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C27 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C28 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C29 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C30 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 29.587 | 33.559 | 0.268 | 30.203 | 6.383 | 0.000 | 0.000 | 100.000 |

## Detailed Hydrocarbon Analysis Report

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Sample Name: 26040367-001A TopLayer HKP Analyzed: 20-Apr-26, 14:17:59 Acquired: 17-Apr-26 01:22:29 Peaks Processed: 265 Total Area: 489 Normalization Factor: 100%

### Total Hydrocarbons by Group and Carbon Number, Mole %

| C # | Paraffins | Iso Paraffins | Olefins | Naphthenes | Aromatics | Unknowns | Oxygenates | Total |
|---|---|---|---|---|---|---|---|---|
| C1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C3 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 |
| C4 | 0.129 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.138 |
| C5 | 4.492 | 1.463 | 0.000 | 0.836 | 0.000 | 0.000 | 0.000 | 6.791 |
| C6 | 14.007 | 10.989 | 0.000 | 11.278 | 1.143 | 0.000 | 0.000 | 37.417 |
| C7 | 9.154 | 9.920 | 0.001 | 14.656 | 3.240 | 0.000 | 0.000 | 36.971 |
| C8 | 2.551 | 6.752 | 0.177 | 2.888 | 1.631 | 0.000 | 0.000 | 13.999 |
| C9 | 0.459 | 2.375 | 0.040 | 0.712 | 0.299 | 0.000 | 0.000 | 3.885 |
| C10 | 0.060 | 0.469 | 0.004 | 0.103 | 0.073 | 0.000 | 0.000 | 0.709 |
| C11 | 0.009 | 0.053 | 0.000 | 0.000 | 0.005 | 0.000 | 0.000 | 0.067 |
| C12 | 0.002 | 0.012 | 0.000 | 0.001 | 0.002 | 0.000 | 0.000 | 0.017 |
| C13 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 |
| C14 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C15 | 0.000 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.004 |
| C16 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C17 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C18 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C19 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C20 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C21 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C22 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C23 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C24 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C25 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C26 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C27 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C28 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C29 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| C30 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 30.864 | 32.047 | 0.222 | 30.474 | 6.393 | 0.000 | 0.000 | 100.000 |

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Sample Name: 26040367-001A TopLayer HKP Analyzed: 20-Apr-26, 14:17:59 Acquired: 17-Apr-26 01:22:29 Peaks Processed: 265 Total Area: 489 Normalization Factor: 100%

### Individual Component Results

| Component | Group | Retention Time | Retention Index | Area | Mass % | Vol % | Mole % | BP (F) | BP (C) | CAS # |
|---|---|---|---|---|---|---|---|---|---|---|
| propane | P3 | 8.599 | 300.00 | 0.0 | 0.000 | 0.000 | 0.001 | (43.7) | (42.0) | 74-98-6 |
| i-butane | I4 | 9.070 | 355.11 | 0.0 | 0.006 | 0.007 | 0.009 | 10.9 | (11.7) | 75-28-5 |
| n-butane | P4 | 9.473 | 400.00 | 0.4 | 0.079 | 0.098 | 0.129 | 31.1 | (0.5) | 106-97-8 |
| 2,2-dimethylpropane | I5 | 9.676 | 409.87 | 0.0 | 0.000 | 0.001 | 0.001 | 49.1 | 9.5 | 463-82-1 |
| i-pentane | I5 | 10.951 | 467.37 | 5.0 | 1.108 | 1.274 | 1.462 | 82.1 | 27.8 | 78-78-4 |
| n-pentane | P5 | 11.748 | 500.00 | 15.4 | 3.404 | 3.875 | 4.492 | 96.9 | 36.1 | 109-66-0 |
| 2,2-dimethylbutane | I6 | 13.274 | 530.11 | 0.4 | 0.082 | 0.091 | 0.090 | 121.5 | 49.7 | 75-83-2 |
| cyclopentane | N5 | 14.863 | 557.96 | 2.9 | 0.616 | 0.589 | 0.836 | 120.7 | 49.3 | 287-92-3 |
| 2,3-dimethylbutane | I6 | 14.961 | 559.58 | 2.9 | 0.622 | 0.670 | 0.687 | 136.4 | 58.0 | 79-29-8 |
| 2-methylpentane | I6 | 15.215 | 563.73 | 26.6 | 5.726 | 6.231 | 6.326 | 140.5 | 60.3 | 107-83-5 |
| 3-methylpentane | I6 | 16.233 | 579.68 | 16.4 | 3.517 | 3.774 | 3.886 | 145.9 | 63.3 | 96-14-0 |
| n-hexane | P6 | 17.628 | 600.00 | 60.4 | 12.679 | 13.671 | 14.007 | 155.7 | 68.7 | 110-54-3 |
| C7-Olefin | O7 | 19.684 | 621.59 | 0.0 | 0.001 | 0.001 | 0.001 | 198.9 | 92.7 | |
| 2,2-dimethylpentane | I7 | 19.887 | 623.60 | 1.2 | 0.245 | 0.251 | 0.233 | 174.5 | 79.2 | 590-35-2 |
| methylcyclopentane | N6 | 20.108 | 625.77 | 25.5 | 5.175 | 4.928 | 5.854 | 161.2 | 71.8 | 96-37-7 |
| 2,4-dimethylpentane | I7 | 20.504 | 629.58 | 3.7 | 0.770 | 0.794 | 0.732 | 176.9 | 80.5 | 108-08-7 |
| 2,2,3-trimethylbutane | I7 | 21.098 | 635.17 | 0.2 | 0.035 | 0.036 | 0.033 | 177.6 | 80.9 | 464-06-2 |
| benzene | A6 | 22.622 | 648.81 | 5.4 | 0.937 | 0.763 | 1.143 | 176.2 | 80.1 | 71-43-2 |
| 3,3-dimethylpentane | I7 | 23.322 | 654.77 | 0.6 | 0.120 | 0.123 | 0.114 | 186.9 | 86.1 | 562-49-2 |
| cyclohexane | N6 | 23.725 | 658.13 | 23.6 | 4.794 | 4.390 | 5.424 | 177.3 | 80.7 | 110-82-7 |
| 2-methylhexane | I7 | 24.873 | 667.37 | 18.6 | 3.846 | 3.956 | 3.655 | 194.1 | 90.1 | 591-76-4 |
| 2,3-dimethylpentane | I7 | 25.074 | 668.95 | 6.0 | 1.238 | 1.277 | 1.176 | 193.6 | 89.8 | 565-59-3 |
| 1,1-dimethylcyclopentane | N7 | 25.410 | 671.55 | 5.0 | 1.015 | 0.937 | 0.984 | 189.5 | 87.5 | 1638-26-2 |
| 3-methylhexane | I7 | 25.987 | 675.95 | 19.0 | 3.922 | 4.035 | 3.727 | 197.3 | 91.9 | 589-34-4 |
| 1c,3-dimethylcyclopentane | N7 | 26.796 | 681.95 | 7.0 | 1.413 | 1.322 | 1.370 | 195.4 | 90.8 | 2532-58-3 |
| 1t,3-dimethylcyclopentane | N7 | 27.169 | 684.65 | 6.4 | 1.291 | 1.208 | 1.252 | 197.1 | 91.7 | 1759-58-6 |
| 3-ethylpentane | I7 | 27.353 | 685.98 | 1.3 | 0.263 | 0.270 | 0.250 | 200.2 | 93.5 | 617-78-7 |
| 1t,2-dimethylcyclopentane | N7 | 27.529 | 687.23 | 9.7 | 1.958 | 1.831 | 1.898 | 197.4 | 91.9 | 822-50-4 |
| 2,2,4-trimethylpentane | I8 | 27.786 | 689.04 | 0.1 | 0.019 | 0.020 | 0.016 | 210.6 | 99.2 | 540-84-1 |
| n-heptane | P7 | 29.386 | 700.00 | 47.0 | 9.634 | 10.107 | 9.154 | 209.2 | 98.4 | 142-82-5 |
| 1c,2-dimethylcyclopentane | N7 | 32.103 | 719.79 | 1.1 | 0.217 | 0.203 | 0.210 | 211.2 | 99.5 | 1192-18-3 |
| methylcyclohexane | N7 | 32.217 | 720.58 | 44.4 | 8.918 | 8.262 | 8.647 | 213.7 | 100.9 | 108-87-2 |
| 2,2-dimethylhexane | I8 | 32.678 | 723.76 | 3.9 | 0.792 | 0.795 | 0.661 | 224.3 | 106.8 | 590-73-8 |
| ethylcyclopentane | N7 | 33.973 | 732.45 | 1.5 | 0.304 | 0.279 | 0.295 | 218.2 | 103.5 | 1640-89-7 |
| 2,5-dimethylhexane | I8 | 34.198 | 733.93 | 1.5 | 0.308 | 0.310 | 0.257 | 228.4 | 109.1 | 592-13-2 |
| 2,2,3-trimethylpentane | I8 | 34.361 | 735.00 | 0.2 | 0.032 | 0.032 | 0.026 | 229.7 | 109.9 | 564-02-3 |
| 2,4-dimethylhexane | I8 | 34.488 | 735.83 | 2.4 | 0.493 | 0.497 | 0.411 | 229.0 | 109.4 | 589-43-5 |
| 1c,2t,4-trimethylcyclopentane | N8 | 35.338 | 741.27 | 3.1 | 0.618 | 0.585 | 0.525 | 242.1 | 116.7 | 4850-28-6 |
| 3,3-dimethylhexane | I8 | 35.581 | 742.81 | 0.5 | 0.094 | 0.094 | 0.078 | 233.5 | 112.0 | 563-16-6 |
| C8-Olefin | O8 | 36.268 | 747.08 | 0.0 | 0.003 | 0.003 | 0.002 | 248.0 | 120.0 | |
| 1t,2c,3-trimethylcyclopentane | N8 | 36.487 | 748.43 | 2.4 | 0.473 | 0.447 | 0.401 | 230.7 | 110.4 | 15890-40-1 |

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### Individual Component Results

| Component | Group | Retention Time | Retention Index | Area | Mass % | Vol % | Mole % | BP (F) | BP (C) | CAS # |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,3,4-trimethylpentane | I8 | 36.964 | 751.34 | 0.3 | 0.071 | 0.072 | 0.059 | 236.2 | 113.5 | 565-75-3 |
| toluene | A7 | 37.503 | 754.58 | 17.4 | 3.136 | 2.592 | 3.240 | 231.1 | 110.6 | 108-88-3 |
| 2,3-dimethylhexane | I8 | 38.758 | 761.94 | 2.2 | 0.455 | 0.459 | 0.379 | 240.1 | 115.6 | 584-94-1 |
| 2-methyl-3-ethylpentane | I8 | 38.944 | 763.02 | 0.3 | 0.065 | 0.066 | 0.055 | 240.1 | 115.6 | 609-26-7 |
| C8-Olefin | O8 | 39.348 | 765.33 | 0.0 | 0.003 | 0.003 | 0.002 | 248.0 | 120.0 | |
| 2-methylheptane | I8 | 39.753 | 767.61 | 10.3 | 2.111 | 2.122 | 1.759 | 243.8 | 117.7 | 592-27-8 |
| 4-methylheptane | I8 | 39.993 | 768.96 | 2.8 | 0.577 | 0.580 | 0.481 | 243.9 | 117.7 | 589-53-7 |
| 3-methyl-3-ethylpentane | I8 | 40.173 | 769.96 | 0.3 | 0.054 | 0.054 | 0.045 | 240.1 | 115.6 | 1067-08-9 |
| 3,4-dimethylhexane | I8 | 40.263 | 770.47 | 0.4 | 0.081 | 0.082 | 0.068 | 243.9 | 117.7 | 583-48-2 |
| 1c,2t,3-trimethylcyclopentane | N8 | 40.643 | 772.57 | 0.3 | 0.066 | 0.062 | 0.056 | 243.5 | 117.5 | 19374-46-0 |
| 3-methylheptane | I8 | 41.003 | 774.55 | 5.7 | 1.172 | 1.178 | 0.977 | 246.1 | 118.9 | 589-81-1 |
| 3-ethylhexane | I8 | 41.203 | 775.63 | 8.7 | 1.776 | 1.786 | 1.480 | 245.4 | 118.5 | 619-99-8 |
| C8-Olefin | O8 | 41.330 | 776.32 | 0.4 | 0.078 | 0.073 | 0.066 | 248.0 | 120.0 | |
| 1t,4-dimethylcyclohexane | N8 | 41.534 | 777.42 | 3.5 | 0.700 | 0.654 | 0.594 | 246.8 | 119.4 | 2207-04-7 |
| 1,1-dimethylcyclohexane | N8 | 42.495 | 782.54 | 1.3 | 0.254 | 0.235 | 0.215 | 247.2 | 119.6 | 590-66-9 |
| 2,2,5-trimethylhexane | I9 | 42.933 | 784.83 | 0.1 | 0.013 | 0.013 | 0.010 | 255.4 | 124.1 | 3522-94-9 |
| 3c-ethylmethylcyclopentane | N8 | 43.160 | 786.02 | 0.4 | 0.072 | 0.066 | 0.061 | 250.0 | 121.1 | 2613-65-2 |
| 3t-ethylmethylcyclopentane | N8 | 43.553 | 788.04 | 0.3 | 0.064 | 0.059 | 0.054 | 250.0 | 121.1 | 2613-66-3 |
| octene-1 | O8 | 43.782 | 789.22 | 0.6 | 0.125 | 0.124 | 0.106 | 256.1 | 124.5 | 111-66-0 |
| 1,1-methylethylcyclopentane | N8 | 44.178 | 791.23 | 0.3 | 0.051 | 0.047 | 0.043 | 250.8 | 121.5 | 16747-50-5 |
| 1t,2-dimethylcyclohexane | N8 | 44.678 | 793.75 | 3.3 | 0.660 | 0.614 | 0.560 | 254.2 | 123.4 | 6876-23-9 |
| n-octane | P8 | 45.943 | 800.00 | 14.9 | 3.061 | 3.123 | 2.551 | 258.2 | 125.7 | 111-65-9 |
| 1c,4-dimethylcyclohexane | N8 | 46.090 | 800.75 | 1.6 | 0.312 | 0.291 | 0.265 | 255.8 | 124.3 | 624-29-3 |
| C9-IsoParaffin | I9 | 47.544 | 808.02 | 0.1 | 0.013 | 0.012 | 0.010 | 297.6 | 147.6 | |
| C9-IsoParaffin | I9 | 47.618 | 808.38 | 0.2 | 0.036 | 0.034 | 0.028 | 297.6 | 147.6 | |
| c-octene-2 | O8 | 48.119 | 810.84 | 0.0 | 0.001 | 0.001 | 0.001 | 32.0 | 0.0 | 7642-04-8 |
| C9-IsoParaffin | I9 | 48.376 | 812.09 | 0.0 | 0.003 | 0.003 | 0.002 | 297.6 | 147.6 | |
| 2,3,5-trimethylhexane | I9 | 48.848 | 814.36 | 0.1 | 0.026 | 0.026 | 0.019 | 268.4 | 131.4 | 1069-53-0 |
| N2 | N8 | 49.343 | 816.72 | 0.1 | 0.023 | 0.021 | 0.019 | 267.2 | 130.7 | |
| C9-IsoParaffin | I9 | 49.716 | 818.49 | 0.1 | 0.012 | 0.011 | 0.009 | 297.6 | 147.6 | |
| 1c,2-dimethylcyclohexane | N8 | 50.143 | 820.49 | 0.3 | 0.065 | 0.060 | 0.055 | 265.5 | 129.7 | 2207-01-4 |
| 1,1,4-trimethylcyclohexane | N9 | 51.051 | 824.69 | 1.3 | 0.257 | 0.239 | 0.193 | 275.0 | 135.0 | 7094-27-1 |
| C9-IsoParaffin | I9 | 51.258 | 825.64 | 0.1 | 0.029 | 0.027 | 0.022 | 297.6 | 147.6 | |
| C9-IsoParaffin | I9 | 51.481 | 826.66 | 0.0 | 0.008 | 0.007 | 0.006 | 297.6 | 147.6 | |
| C9-IsoParaffin | I9 | 51.723 | 827.75 | 0.0 | 0.007 | 0.006 | 0.005 | 297.6 | 147.6 | |
| 2,2,3-trimethylhexane | I9 | 52.239 | 830.08 | 4.4 | 0.891 | 0.880 | 0.661 | 271.2 | 132.9 | 16747-25-4 |
| C9-IsoParaffin | I9 | 52.617 | 831.77 | 1.3 | 0.254 | 0.234 | 0.193 | 297.6 | 147.6 | |
| C9-IsoParaffin | I9 | 53.066 | 833.76 | 0.1 | 0.014 | 0.012 | 0.010 | 297.6 | 147.6 | |
| 4,4-dimethylheptane | I9 | 53.553 | 835.90 | 1.5 | 0.307 | 0.306 | 0.228 | 271.2 | 132.9 | 1068-19-5 |
| 3,5-dimethylheptane | I9 | 54.211 | 838.76 | 1.2 | 0.232 | 0.242 | 0.175 | 278.6 | 137.0 | 4032-86-4 |
| n-propylcyclopentane | N8 | 54.611 | 840.48 | 0.2 | 0.047 | 0.043 | 0.040 | 267.7 | 131.0 | 2040-96-2 |

## Detailed Hydrocarbon Analysis Report

Operator: Hoang Phung

Raw File: H:\COMPASS\PIANO Dragon II Export\CDF Files Dragon II\1030_HGC26\26040367-001A TopLayer HKP.CDF

Sample File: H:\COMPASS\PIANO Dragon II Export\DHA Results Dragon II\26040367-001A TopLayer HKP_04202026_1417.DHA *

Reference File: H:\COMPASS\PIANO Dragon II Export\Reference DHAs Dragon II\19-01-199-01 GC26 NaphCond 03.26.26 HKP_03272026_1324.DHA

Sample Name: 26040367-001A TopLayer HKP Analyzed: 20-Apr-26, 14:17:59 Acquired: 17-Apr-26 01:22:29 Peaks Processed: 265 Total Area: 489 Normalization Factor: 100%

### Individual Component Results

| Component | Group | Retention Time | Retention Index | Area | Mass % | Vol % | Mole % | BP (F) | BP (C) | CAS # |
|---|---|---|---|---|---|---|---|---|---|---|
| C9-IsoParaffin | I9 | 54.850 | 841.51 | 0.1 | 0.016 | 0.015 | 0.012 | 297.6 | 147.6 | |
| C9-IsoParaffin | I9 | 55.173 | 842.88 | 0.2 | 0.030 | 0.028 | 0.023 | 297.6 | 147.6 | |
| C9-IsoParaffin | I9 | 55.279 | 843.33 | 0.1 | 0.011 | 0.010 | 0.009 | 297.6 | 147.6 | |
| C9-IsoParaffin | I9 | 55.576 | 844.59 | 0.1 | 0.016 | 0.015 | 0.012 | 297.6 | 147.6 | |
| ethylbenzene | A8 | 56.700 | 849.28 | 1.2 | 0.212 | 0.175 | 0.190 | 277.2 | 136.2 | 100-41-4 |
| C9-IsoParaffin | I9 | 57.011 | 850.56 | 0.2 | 0.037 | 0.034 | 0.028 | 297.6 | 147.6 | |
| C9-IsoParaffin | I9 | 57.140 | 851.09 | 0.1 | 0.023 | 0.022 | 0.018 | 297.6 | 147.6 | |
| 1c,2t,4t-trimethylcyclohexane | N9 | 57.463 | 852.41 | 0.9 | 0.175 | 0.165 | 0.132 | 32.0 | 0.0 | 7667-60-9 |
| C9-IsoParaffin | I9 | 58.008 | 854.62 | 0.0 | 0.003 | 0.003 | 0.003 | 297.6 | 147.6 | |
| C9-IsoParaffin | I9 | 58.293 | 855.77 | 0.0 | 0.002 | 0.002 | 0.001 | 297.6 | 147.6 | |
| C9-IsoParaffin | I9 | 58.574 | 856.89 | 0.1 | 0.011 | 0.010 | 0.009 | 297.6 | 147.6 | |
| m-xylene | A8 | 59.081 | 858.91 | 5.1 | 0.935 | 0.766 | 0.839 | 282.4 | 139.1 | 108-38-3 |
| p-xylene | A8 | 59.393 | 860.14 | 1.9 | 0.334 | 0.277 | 0.300 | 281.0 | 138.4 | 106-42-3 |
| 2,3-dimethylheptane | I9 | 59.753 | 861.56 | 1.5 | 0.307 | 0.303 | 0.228 | 284.9 | 140.5 | 3074-71-3 |
| 3,4-dimethylheptane | I9 | 60.313 | 863.75 | 0.1 | 0.019 | 0.019 | 0.014 | 285.1 | 140.6 | 922-28-1 |
| C9-IsoParaffin | I9 | 60.608 | 864.89 | 0.4 | 0.082 | 0.076 | 0.062 | 297.6 | 147.6 | |
| C9-IsoParaffin | I9 | 61.166 | 867.04 | 0.1 | 0.027 | 0.025 | 0.021 | 297.6 | 147.6 | |
| C9-IsoParaffin | I9 | 61.414 | 867.99 | 0.0 | 0.002 | 0.002 | 0.001 | 297.6 | 147.6 | |
| 4-methyloctane | I9 | 62.020 | 870.28 | 0.9 | 0.181 | 0.179 | 0.134 | 288.4 | 142.4 | 2216-34-4 |
| 2-methyloctane | I9 | 62.307 | 871.37 | 1.0 | 0.206 | 0.203 | 0.153 | 289.9 | 143.3 | 3221-61-2 |
| C9-IsoParaffin | I9 | 62.873 | 873.48 | 0.1 | 0.022 | 0.021 | 0.017 | 297.6 | 147.6 | |
| 3-ethylheptane | I9 | 63.628 | 876.28 | 0.3 | 0.067 | 0.067 | 0.050 | 289.4 | 143.0 | 15869-80-4 |
| 3-methyloctane | I9 | 64.003 | 877.66 | 1.1 | 0.228 | 0.226 | 0.170 | 291.6 | 144.2 | 2216-33-3 |
| C9-IsoParaffin | I9 | 64.511 | 879.51 | 0.0 | 0.005 | 0.005 | 0.004 | 297.6 | 147.6 | |
| C9-IsoParaffin | I9 | 64.712 | 880.24 | 0.1 | 0.012 | 0.011 | 0.009 | 297.6 | 147.6 | |
| o-xylene | A8 | 64.961 | 881.14 | 1.9 | 0.336 | 0.273 | 0.302 | 292.0 | 144.4 | 95-47-6 |
| C9-IsoParaffin | I9 | 65.392 | 882.69 | 0.1 | 0.014 | 0.013 | 0.011 | 297.6 | 147.6 | |
| C9-IsoParaffin | I9 | 66.005 | 884.87 | 0.0 | 0.008 | 0.008 | 0.006 | 297.6 | 147.6 | |
| N18 | N9 | 66.541 | 886.77 | 0.2 | 0.046 | 0.042 | 0.035 | 297.9 | 147.7 | |
| N19 | N9 | 66.756 | 887.52 | 0.9 | 0.182 | 0.166 | 0.137 | 298.1 | 147.8 | |
| N20 | N9 | 67.254 | 889.26 | 0.6 | 0.126 | 0.115 | 0.095 | 299.1 | 148.4 | |
| 1-Nonene | O9 | 67.913 | 891.55 | 0.0 | 0.006 | 0.006 | 0.005 | 274.1 | 134.5 | 124-11-8 |
| i-butylcyclopentane | N9 | 68.247 | 892.70 | 0.1 | 0.012 | 0.011 | 0.009 | 298.3 | 148.0 | 3788-32-7 |
| N22 | N9 | 68.550 | 893.73 | 0.0 | 0.003 | 0.003 | 0.002 | 301.6 | 149.8 | |
| t-nonene-3 | O9 | 69.376 | 896.54 | 0.1 | 0.018 | 0.018 | 0.014 | 32.0 | 0.0 | 20063-92-7 |
| C9-IsoParaffin | I9 | 69.791 | 897.94 | 0.0 | 0.003 | 0.003 | 0.002 | 297.6 | 147.6 | |
| cis-3-Nonene | O9 | 69.948 | 898.46 | 0.0 | 0.009 | 0.009 | 0.007 | 297.9 | 147.7 | 20237-46-1 |
| n-nonane | P9 | 70.408 | 900.00 | 3.1 | 0.618 | 0.614 | 0.459 | 303.5 | 150.8 | 111-84-2 |
| 1,1-methylethylcyclohexane | N9 | 70.816 | 902.72 | 0.5 | 0.095 | 0.087 | 0.072 | 305.9 | 152.2 | 4926-90-3 |
| t-nonene-2 | O9 | 71.306 | 905.98 | 0.1 | 0.019 | 0.018 | 0.014 | 32.0 | 0.0 | 6434-78-2 |
| N25 | N9 | 71.428 | 906.79 | 0.1 | 0.013 | 0.012 | 0.010 | 305.7 | 152.1 | |

## Detailed Hydrocarbon Analysis Report

Operator: Hoang Phung

Raw File: H:\COMPASS\PIANO Dragon II Export\CDF Files Dragon II\1030_HGC26\26040367-001A TopLayer HKP.CDF

Sample File: H:\COMPASS\PIANO Dragon II Export\DHA Results Dragon II\26040367-001A TopLayer HKP_04202026_1417.DHA *

Reference File: H:\COMPASS\PIANO Dragon II Export\Reference DHAs Dragon II\19-01-199-01 GC26 NaphCond 03.26.26 HKP_03272026_1324.DHA

Sample Name: 26040367-001A TopLayer HKP Analyzed: 20-Apr-26, 14:17:59 Acquired: 17-Apr-26 01:22:29 Peaks Processed: 265 Total Area: 489 Normalization Factor: 100%

### Individual Component Results

| Component | Group | Retention Time | Retention Index | Area | Mass % | Vol % | Mole % | BP (F) | BP (C) | CAS # |
|---|---|---|---|---|---|---|---|---|---|---|
| C10-IsoParaffin | I10 | 71.718 | 908.69 | 0.0 | 0.002 | 0.002 | 0.001 | 340.2 | 171.2 | |
| i-propylbenzene | A9 | 72.294 | 912.47 | 0.1 | 0.024 | 0.020 | 0.019 | 306.3 | 152.4 | 98-82-8 |
| C10-IsoParaffin | I10 | 72.861 | 916.15 | 0.3 | 0.064 | 0.055 | 0.046 | 340.2 | 171.2 | |
| i-propylcyclohexane | N9 | 73.039 | 917.30 | 0.1 | 0.010 | 0.009 | 0.007 | 310.6 | 154.8 | 696-29-7 |
| C10-IsoParaffin | I10 | 73.316 | 919.09 | 0.2 | 0.031 | 0.027 | 0.022 | 340.2 | 171.2 | |
| C10-IsoParaffin | I10 | 73.768 | 921.99 | 0.1 | 0.014 | 0.012 | 0.010 | 340.2 | 171.2 | |
| C10-IsoParaffin | I10 | 74.120 | 924.24 | 0.1 | 0.021 | 0.018 | 0.015 | 340.2 | 171.2 | |
| 2,2-dimethyloctane | I10 | 74.184 | 924.64 | 0.2 | 0.034 | 0.033 | 0.023 | 314.4 | 156.9 | 15869-87-1 |
| N28 | N9 | 74.528 | 926.82 | 0.1 | 0.012 | 0.011 | 0.009 | 314.4 | 156.9 | |
| N29 | N9 | 74.948 | 929.47 | 0.1 | 0.014 | 0.013 | 0.011 | 315.1 | 157.3 | |
| C10-IsoParaffin | I10 | 75.343 | 931.95 | 0.6 | 0.119 | 0.101 | 0.085 | 340.2 | 171.2 | |
| I12 | I10 | 75.511 | 933.01 | 0.2 | 0.036 | 0.035 | 0.024 | 311.4 | 155.2 | |
| C10-IsoParaffin | I10 | 75.820 | 934.93 | 0.0 | 0.002 | 0.002 | 0.001 | 340.2 | 171.2 | |
| C10-IsoParaffin | I10 | 76.133 | 936.87 | 0.1 | 0.014 | 0.012 | 0.010 | 340.2 | 171.2 | |
| 2,6-dimethyloctane | I10 | 76.257 | 937.64 | 0.0 | 0.008 | 0.008 | 0.006 | 320.7 | 160.4 | 2051-30-1 |
| C10-IsoParaffin | I10 | 76.429 | 938.71 | 0.1 | 0.015 | 0.013 | 0.011 | 340.2 | 171.2 | |
| C10-IsoParaffin | I10 | 76.780 | 940.87 | 0.1 | 0.011 | 0.009 | 0.008 | 340.2 | 171.2 | |
| 3,3-dimethyloctane | I10 | 77.063 | 942.61 | 0.4 | 0.072 | 0.070 | 0.048 | 322.2 | 161.2 | 4110-44-5 |
| C10-IsoParaffin | I10 | 77.374 | 944.51 | 0.1 | 0.017 | 0.014 | 0.012 | 340.2 | 171.2 | |
| n-propylbenzene | A9 | 77.692 | 946.44 | 0.3 | 0.049 | 0.040 | 0.038 | 318.6 | 159.2 | 103-65-1 |
| 3-methyl-5-ethylheptane | I10 | 78.024 | 948.45 | 0.1 | 0.015 | 0.014 | 0.010 | 316.8 | 158.2 | 52896-90-9 |
| N32 | N10 | 78.259 | 949.87 | 0.2 | 0.042 | 0.038 | 0.029 | 324.9 | 162.7 | |
| C10-IsoParaffin | I10 | 78.661 | 952.29 | 0.1 | 0.011 | 0.009 | 0.008 | 340.2 | 171.2 | |
| 1,3-methylethylbenzene | A9 | 78.994 | 954.28 | 0.4 | 0.077 | 0.063 | 0.061 | 322.4 | 161.3 | 620-14-4 |
| 1,4-methylethylbenzene | A9 | 79.316 | 956.20 | 0.2 | 0.034 | 0.028 | 0.027 | 323.6 | 162.0 | 622-96-8 |
| C10-IsoParaffin | I10 | 79.551 | 957.60 | 0.0 | 0.001 | 0.001 | 0.001 | 340.2 | 171.2 | |
| N33 | N10 | 79.921 | 959.78 | 0.1 | 0.016 | 0.014 | 0.011 | 327.8 | 164.3 | |
| 1,3,5-trimethylbenzene | A9 | 80.268 | 961.83 | 0.3 | 0.058 | 0.048 | 0.046 | 328.5 | 164.7 | 108-67-8 |
| 2,3-dimethyloctane | I10 | 80.409 | 962.66 | 0.1 | 0.022 | 0.022 | 0.015 | 327.8 | 164.3 | 7146-60-3 |
| N34 | N10 | 80.586 | 963.69 | 0.1 | 0.011 | 0.010 | 0.007 | 330.6 | 165.9 | |
| C10-IsoParaffin | I10 | 80.632 | 963.96 | 0.0 | 0.008 | 0.007 | 0.006 | 340.2 | 171.2 | |
| C10-IsoParaffin | I10 | 80.963 | 965.90 | 0.0 | 0.009 | 0.008 | 0.007 | 340.2 | 171.2 | |
| C10-IsoParaffin | I10 | 81.084 | 966.60 | 0.0 | 0.003 | 0.003 | 0.002 | 340.2 | 171.2 | |
| 5-methylnonane | I10 | 81.323 | 967.99 | 0.1 | 0.011 | 0.011 | 0.008 | 329.2 | 165.1 | 15869-85-9 |
| C10-IsoParaffin | I10 | 81.583 | 969.50 | 0.2 | 0.035 | 0.030 | 0.025 | 340.2 | 171.2 | |
| 1,2-methylethylbenzene | A9 | 81.729 | 970.34 | 0.1 | 0.017 | 0.014 | 0.013 | 329.3 | 165.2 | 611-14-3 |
| 2-methylnonane | I10 | 81.998 | 971.89 | 0.2 | 0.032 | 0.031 | 0.021 | 332.7 | 167.0 | 871-83-0 |
| C10-IsoParaffin | I10 | 82.274 | 973.48 | 0.0 | 0.004 | 0.004 | 0.003 | 340.2 | 171.2 | |
| 3-ethyloctane | I10 | 82.471 | 974.60 | 0.0 | 0.009 | 0.009 | 0.006 | 331.7 | 166.5 | 5881-17-4 |
| N35 | N10 | 82.699 | 975.91 | 0.1 | 0.012 | 0.011 | 0.008 | 335.3 | 168.5 | |
| 3-methylnonane | I10 | 82.966 | 977.42 | 0.1 | 0.026 | 0.025 | 0.017 | 334.0 | 167.8 | 5911-04-6 |

## Detailed Hydrocarbon Analysis Report

Operator: Hoang Phung

Raw File: H:\COMPASS\PIANO Dragon II Export\CDF Files Dragon II\1030_HGC26\26040367-001A TopLayer HKP.CDF

Sample File: H:\COMPASS\PIANO Dragon II Export\DHA Results Dragon II\26040367-001A TopLayer HKP_04202026_1417.DHA *

Reference File: H:\COMPASS\PIANO Dragon II Export\Reference DHAs Dragon II\19-01-199-01 GC26 NaphCond 03.26.26 HKP_03272026_1324.DHA

Sample Name: 26040367-001A TopLayer HKP Analyzed: 20-Apr-26, 14:17:59 Acquired: 17-Apr-26 01:22:29 Peaks Processed: 265 Total Area: 489 Normalization Factor: 100%

### Individual Component Results

| Component | Group | Retention Time | Retention Index | Area | Mass % | Vol % | Mole % | BP (F) | BP (C) | CAS # |
|---|---|---|---|---|---|---|---|---|---|---|
| C10-IsoParaffin | I10 | 83.171 | 978.59 | 0.0 | 0.009 | 0.007 | 0.006 | 340.2 | 171.2 | |
| I18 | I10 | 83.590 | 980.96 | 0.0 | 0.003 | 0.003 | 0.002 | 337.0 | 169.4 | |
| 1,2,4-Trimethylbenzene | A9 | 84.018 | 983.37 | 0.6 | 0.101 | 0.083 | 0.080 | 336.9 | 169.4 | 95-63-6 |
| tert-Butylcyclohexane | N10 | 84.301 | 984.96 | 0.1 | 0.023 | 0.020 | 0.016 | 332.6 | 167.0 | 3178-22-1 |
| i-butylcyclohexane | N10 | 84.694 | 987.15 | 0.1 | 0.023 | 0.021 | 0.016 | 340.3 | 171.3 | 1678-98-4 |
| 2-Methyl-1-nonene | O10 | 84.861 | 988.08 | 0.0 | 0.002 | 0.002 | 0.002 | 212.0 | 100.0 | 2980-71-4 |
| I23 | I10 | 85.041 | 989.08 | 0.0 | 0.004 | 0.004 | 0.003 | 341.0 | 171.7 | |
| N37 | N10 | 85.234 | 990.15 | 0.0 | 0.004 | 0.004 | 0.003 | 341.4 | 171.9 | |
| decene-1 | O10 | 85.411 | 991.13 | 0.0 | 0.003 | 0.003 | 0.002 | 339.1 | 170.6 | 872-05-9 |
| C10-IsoParaffin | I10 | 85.978 | 994.25 | 0.0 | 0.006 | 0.005 | 0.004 | 340.2 | 171.2 | |
| i-butylbenzene | A10 | 86.198 | 995.45 | 0.1 | 0.011 | 0.009 | 0.008 | 343.0 | 172.8 | 538-93-2 |
| sec-butylbenzene | A10 | 86.673 | 998.04 | 0.1 | 0.009 | 0.008 | 0.007 | 344.0 | 173.3 | 135-98-8 |
| C10-IsoParaffin | I10 | 86.786 | 998.66 | 0.0 | 0.004 | 0.003 | 0.003 | 340.2 | 171.2 | |
| n-decane | P10 | 87.033 | 1000.00 | 0.5 | 0.089 | 0.087 | 0.060 | 345.5 | 174.2 | 124-18-5 |
| C11-IsoParaffin | I11 | 87.305 | 1002.44 | 0.0 | 0.004 | 0.003 | 0.003 | 378.5 | 192.5 | |
| C11-IsoParaffin | I11 | 87.625 | 1005.29 | 0.0 | 0.003 | 0.002 | 0.002 | 378.5 | 192.5 | |
| 1,2,3-trimethylbenzene | A9 | 87.829 | 1007.11 | 0.1 | 0.015 | 0.012 | 0.012 | 349.0 | 176.1 | 526-73-8 |
| 1,3-methyl-i-propylbenzene | A10 | 88.118 | 1009.67 | 0.0 | 0.009 | 0.007 | 0.006 | 347.1 | 175.1 | 535-77-3 |
| 1,4-methyl-i-propylbenzene | A10 | 88.532 | 1013.33 | 0.0 | 0.004 | 0.004 | 0.003 | 350.8 | 177.1 | 99-87-6 |
| C11-IsoParaffin | I11 | 88.758 | 1015.32 | 0.0 | 0.002 | 0.002 | 0.001 | 378.5 | 192.5 | |
| C11-IsoParaffin | I11 | 89.048 | 1017.86 | 0.0 | 0.002 | 0.002 | 0.002 | 378.5 | 192.5 | |
| 2-3-dihydroindene | A9 | 89.168 | 1018.91 | 0.0 | 0.004 | 0.003 | 0.003 | 352.1 | 177.9 | 496-11-7 |
| C11-IsoParaffin | I11 | 89.382 | 1020.79 | 0.0 | 0.004 | 0.003 | 0.003 | 378.5 | 192.5 | |
| C11-IsoParaffin | I11 | 89.643 | 1023.06 | 0.0 | 0.003 | 0.002 | 0.002 | 378.5 | 192.5 | |
| 1,2-methyl-i-propylbenzene | A10 | 89.864 | 1024.99 | 0.0 | 0.009 | 0.007 | 0.006 | 352.7 | 178.2 | 1074-17-5 |
| C11-IsoParaffin | I11 | 90.221 | 1028.08 | 0.1 | 0.016 | 0.013 | 0.011 | 378.5 | 192.5 | |
| C11-IsoParaffin | I11 | 90.618 | 1031.50 | 0.0 | 0.002 | 0.001 | 0.001 | 378.5 | 192.5 | |
| n-Butylcyclohexane | N10 | 90.833 | 1033.36 | 0.1 | 0.019 | 0.017 | 0.013 | 358.1 | 181.1 | 1678-93-9 |
| C11-IsoParaffin | I11 | 91.344 | 1037.73 | 0.0 | 0.005 | 0.004 | 0.003 | 378.5 | 192.5 | |
| 1,3-diethylbenzene | A10 | 91.577 | 1039.72 | 0.0 | 0.004 | 0.004 | 0.003 | 358.1 | 181.1 | 141-93-5 |
| 1,3-methyl-n-propylbenzene | A10 | 91.909 | 1042.55 | 0.1 | 0.010 | 0.008 | 0.007 | 359.6 | 182.0 | 1074-43-7 |
| C11-IsoParaffin | I11 | 92.084 | 1044.03 | 0.0 | 0.002 | 0.001 | 0.001 | 378.5 | 192.5 | |
| C11-IsoParaffin | I11 | 92.189 | 1044.92 | 0.0 | 0.004 | 0.003 | 0.002 | 378.5 | 192.5 | |
| 1,4-methyl-n-propylbenzene | A10 | 92.376 | 1046.50 | 0.0 | 0.004 | 0.003 | 0.003 | 362.2 | 183.4 | 1074-55-1 |
| n-butylbenzene | A10 | 92.508 | 1047.62 | 0.0 | 0.003 | 0.003 | 0.002 | 361.9 | 183.3 | 104-51-8 |
| 1,3-dimethyl-5-ethylbenzene | A10 | 92.743 | 1049.59 | 0.0 | 0.006 | 0.005 | 0.004 | 362.5 | 183.6 | 934-74-7 |
| C11-IsoParaffin | I11 | 92.993 | 1051.70 | 0.0 | 0.002 | 0.001 | 0.001 | 378.5 | 192.5 | |
| C11-IsoParaffin | I11 | 93.245 | 1053.81 | 0.0 | 0.002 | 0.002 | 0.001 | 378.5 | 192.5 | |
| C11-IsoParaffin | I11 | 93.412 | 1055.20 | 0.0 | 0.006 | 0.005 | 0.004 | 378.5 | 192.5 | |
| 1,2-methyl-n-propylbenzene | A10 | 93.740 | 1057.94 | 0.0 | 0.006 | 0.005 | 0.004 | 364.9 | 185.0 | 1074-17-5 |
| C11-IsoParaffin | I11 | 93.927 | 1059.49 | 0.0 | 0.002 | 0.001 | 0.001 | 378.5 | 192.5 | |

## Detailed Hydrocarbon Analysis Report

Operator: Hoang Phung

Raw File: H:\COMPASS\PIANO Dragon II Export\CDF Files Dragon II\1030_HGC26\26040367-001A TopLayer HKP.CDF

Sample File: H:\COMPASS\PIANO Dragon II Export\DHA Results Dragon II\26040367-001A TopLayer HKP_04202026_1417.DHA *

Reference File: H:\COMPASS\PIANO Dragon II Export\Reference DHAs Dragon II\19-01-199-01 GC26 NaphCond 03.26.26 HKP_03272026_1324.DHA

Sample Name: 26040367-001A TopLayer HKP Analyzed: 20-Apr-26, 14:17:59 Acquired: 17-Apr-26 01:22:29 Peaks Processed: 265 Total Area: 489 Normalization Factor: 100%

### Individual Component Results

| Component | Group | Retention Time | Retention Index | Area | Mass % | Vol % | Mole % | BP (F) | BP (C) | CAS # |
|---|---|---|---|---|---|---|---|---|---|---|
| C11-IsoParaffin | I11 | 94.169 | 1061.50 | 0.0 | 0.001 | 0.001 | 0.001 | 378.5 | 192.5 | |
| 5-methyldecane | I11 | 94.328 | 1062.82 | 0.0 | 0.004 | 0.004 | 0.002 | 367.0 | 186.1 | 13151-35-4 |
| C11-IsoParaffin | I11 | 94.687 | 1065.78 | 0.0 | 0.004 | 0.003 | 0.003 | 378.5 | 192.5 | |
| 1,4,dimethyl-2-ethylbenzene | A10 | 94.941 | 1067.87 | 0.0 | 0.003 | 0.003 | 0.002 | 368.4 | 186.9 | 1758-88-9 |
| 1,3-dimethyl-4-ethylbenzene | A10 | 95.108 | 1069.25 | 0.0 | 0.006 | 0.005 | 0.004 | 370.8 | 188.2 | 874-41-9 |
| C11-IsoParaffin | I11 | 95.358 | 1071.29 | 0.0 | 0.001 | 0.001 | 0.001 | 378.5 | 192.5 | |
| 1,2-dimethyl-4-ethylbenzene | A10 | 95.829 | 1075.14 | 0.0 | 0.007 | 0.006 | 0.005 | 373.1 | 189.5 | 934-80-5 |
| C11-IsoParaffin | I11 | 95.998 | 1076.51 | 0.0 | 0.001 | 0.001 | 0.001 | 378.5 | 192.5 | |
| C11-IsoParaffin | I11 | 96.350 | 1079.37 | 0.0 | 0.002 | 0.002 | 0.001 | 378.5 | 192.5 | |
| C11-IsoParaffin | I11 | 96.457 | 1080.23 | 0.0 | 0.002 | 0.002 | 0.001 | 378.5 | 192.5 | |
| C11-IsoParaffin | I11 | 96.854 | 1083.44 | 0.0 | 0.001 | 0.001 | 0.001 | 378.5 | 192.5 | |
| C11-IsoParaffin | I11 | 97.178 | 1086.05 | 0.0 | 0.002 | 0.002 | 0.001 | 378.5 | 192.5 | |
| C11-IsoParaffin | I11 | 97.322 | 1087.20 | 0.0 | 0.002 | 0.002 | 0.001 | 378.5 | 192.5 | |
| C11-IsoParaffin | I11 | 97.639 | 1089.74 | 0.0 | 0.002 | 0.002 | 0.001 | 378.5 | 192.5 | |
| 1,4-methyl-t-butylbenzene | A11 | 97.854 | 1091.46 | 0.0 | 0.002 | 0.002 | 0.002 | 32.0 | 0.0 | 98-51-1 |
| 1,2-Dimethyl-3-ethylbenzene | A10 | 98.097 | 1093.39 | 0.0 | 0.003 | 0.002 | 0.002 | 381.1 | 194.0 | 933-98-2 |
| C11-IsoParaffin | I11 | 98.278 | 1094.83 | 0.0 | 0.001 | 0.001 | 0.001 | 378.5 | 192.5 | |
| 1,2-ethyl-i-propylbenzene | A11 | 98.533 | 1096.85 | 0.0 | 0.003 | 0.002 | 0.002 | 32.0 | 0.0 | 16021-20-8 |
| n-undecane | P11 | 98.931 | 1100.00 | 0.1 | 0.015 | 0.015 | 0.009 | 384.6 | 195.9 | 1120-21-4 |
| C12-IsoParaffin | I12 | 99.264 | 1103.54 | 0.0 | 0.001 | 0.001 | 0.001 | 457.3 | 236.3 | |
| 1,2,4,5-tetramethylbenzene | A10 | 99.403 | 1105.01 | 0.0 | 0.002 | 0.002 | 0.002 | 386.3 | 196.8 | 95-93-2 |
| 1,2,3,5-tetramethylbenzene | A10 | 99.783 | 1109.02 | 0.0 | 0.002 | 0.002 | 0.001 | 388.5 | 198.0 | 527-53-7 |
| C12-IsoParaffin | I12 | 99.990 | 1111.21 | 0.0 | 0.003 | 0.002 | 0.002 | 457.3 | 236.3 | |
| C12-IsoParaffin | I12 | 100.639 | 1118.02 | 0.0 | 0.001 | 0.001 | 0.001 | 457.3 | 236.3 | |
| 1,2-methyl-t-butylbenzene | A11 | 100.930 | 1121.06 | 0.0 | 0.002 | 0.001 | 0.001 | 32.0 | 0.0 | 1074-92-6 |
| 5-methylindan | A10 | 101.517 | 1127.16 | 0.0 | 0.001 | 0.001 | 0.001 | 32.0 | 0.0 | 874-35-1 |
| C12-IsoParaffin | I12 | 101.713 | 1129.20 | 0.0 | 0.002 | 0.001 | 0.001 | 457.3 | 236.3 | |
| C12-IsoParaffin | I12 | 101.908 | 1131.21 | 0.0 | 0.001 | 0.001 | 0.001 | 457.3 | 236.3 | |
| 2-methylindan | A10 | 102.443 | 1136.72 | 0.0 | 0.003 | 0.003 | 0.002 | 368.6 | 187.0 | 824-63-5 |
| C12-IsoParaffin | I12 | 102.791 | 1140.29 | 0.0 | 0.001 | 0.001 | 0.000 | 457.3 | 236.3 | |
| 1,3-di-i-propylbenzene | A12 | 103.073 | 1143.18 | 0.0 | 0.001 | 0.001 | 0.001 | 397.8 | 203.2 | 3748-13-8 |
| C12-IsoParaffin | I12 | 103.581 | 1148.35 | 0.0 | 0.002 | 0.001 | 0.001 | 457.3 | 236.3 | |
| 1t-M-2-(4-MP)cyclopentane | N12 | 103.990 | 1152.50 | 0.0 | 0.002 | 0.002 | 0.001 | 32.0 | 0.0 | 66553-50-2 |
| C12-IsoParaffin | I12 | 104.453 | 1157.17 | 0.0 | 0.001 | 0.001 | 0.001 | 457.3 | 236.3 | |
| C12-IsoParaffin | I12 | 104.950 | 1162.17 | 0.0 | 0.001 | 0.001 | 0.001 | 457.3 | 236.3 | |
| naphthalene | A10 | 105.354 | 1166.22 | 0.0 | 0.002 | 0.001 | 0.001 | 424.4 | 218.0 | 91-20-3 |
| C12-IsoParaffin | I12 | 105.628 | 1168.95 | 0.0 | 0.001 | 0.001 | 0.001 | 457.3 | 236.3 | |
| 1-t-butyl-3,5-dimethylbenzene | A12 | 105.988 | 1172.53 | 0.0 | 0.001 | 0.001 | 0.001 | 32.0 | 0.0 | 98-19-1 |
| I45 | I12 | 106.630 | 1178.89 | 0.0 | 0.002 | 0.001 | 0.001 | 413.4 | 211.9 | |
| I47 | I12 | 107.054 | 1183.07 | 0.0 | 0.001 | 0.001 | 0.001 | 415.2 | 212.9 | |
| n-dodecane | P12 | 108.790 | 1200.00 | 0.0 | 0.003 | 0.003 | 0.002 | 421.3 | 216.3 | 112-40-3 |

## Detailed Hydrocarbon Analysis Report

Operator: Hoang Phung

Raw File: H:\COMPASS\PIANO Dragon II Export\CDF Files Dragon II\1030_HGC26\26040367-001A TopLayer HKP.CDF

Sample File: H:\COMPASS\PIANO Dragon II Export\DHA Results Dragon II\26040367-001A TopLayer HKP_04202026_1417.DHA *

Reference File: H:\COMPASS\PIANO Dragon II Export\Reference DHAs Dragon II\19-01-199-01 GC26 NaphCond 03.26.26 HKP_03272026_1324.DHA

Sample Name: 26040367-001A TopLayer HKP Analyzed: 20-Apr-26, 14:17:59 Acquired: 17-Apr-26 01:22:29 Peaks Processed: 265 Total Area: 489 Normalization Factor: 100%

### Individual Component Results

| Component | Group | Retention Time | Retention Index | Area | Mass % | Vol % | Mole % | BP (F) | BP (C) | CAS # |
|---|---|---|---|---|---|---|---|---|---|---|
| C13-IsoParaffin | I13 | 109.181 | 1203.69 | 0.0 | 0.001 | 0.001 | 0.001 | 478.6 | 248.1 | |
| 1,3,5-triethylbenzene | A12 | 110.400 | 1215.12 | 0.0 | 0.000 | 0.000 | 0.000 | 420.8 | 216.0 | 102-25-0 |
| 1,4-methyl-n-pentylbenzene | A12 | 112.978 | 1238.86 | 0.0 | 0.000 | 0.000 | 0.000 | 32.0 | 0.0 | 1595-09-1 |
| 1,3-dimethylindane | A11 | 114.511 | 1252.73 | 0.0 | 0.000 | 0.000 | 0.000 | 407.7 | 208.7 | 4175-53-5 |
| 1,2,3,4,5-pentamethylbenzene | A11 | 116.945 | 1274.37 | 0.0 | 0.000 | 0.000 | 0.000 | 449.6 | 232.0 | 700-12-9 |
| 2-methylnaphthalene | A11 | 117.572 | 1279.87 | 0.0 | 0.000 | 0.000 | 0.000 | 465.9 | 241.1 | 91-57-6 |
| n-tridecane | P13 | 119.894 | 1300.00 | 0.0 | 0.001 | 0.001 | 0.000 | 455.7 | 235.4 | 629-50-5 |
| n-tetradecane | P14 | 130.188 | 1400.00 | 0.0 | 0.001 | 0.001 | 0.000 | 485.6 | 252.0 | 629-59-4 |
| Naphthalene, 1-propyl- | A13 | 136.950 | 1490.75 | 0.0 | 0.001 | 0.000 | 0.000 | 527.5 | 275.3 | 2765-18-6 |
| C15-IsoParaffin | I15 | 137.611 | 1499.38 | 0.0 | 0.008 | 0.006 | 0.004 | 551.0 | 288.0 | |
| n-hexadecane | P16 | 143.499 | 1600.00 | 0.0 | 0.001 | 0.001 | 0.000 | 547.9 | 286.6 | 544-76-3 |
| n-heptadecane | P17 | 148.399 | 1700.00 | 0.0 | 0.001 | 0.001 | 0.000 | 575.6 | 302.0 | 629-78-7 |
| C18-IsoParaffin | I18 | 150.120 | 1740.83 | 0.0 | 0.001 | 0.001 | 0.000 | 602.6 | 317.0 | |
| n-octadecane | P18 | 152.649 | 1800.00 | 0.0 | 0.001 | 0.001 | 0.000 | 602.6 | 317.0 | 593-45-3 |
| n-nonadecane | P19 | 156.459 | 1900.00 | 0.0 | 0.000 | 0.000 | 0.000 | 626.0 | 330.0 | 629-92-5 |
| n-icosane | P20 | 159.934 | 2000.00 | 0.0 | 0.000 | 0.000 | 0.000 | 648.9 | 342.7 | 112-95-8 |
| n-heneicosane | P21 | 163.183 | 2100.00 | 0.0 | 0.000 | 0.000 | 0.000 | 673.7 | 356.5 | 629-94-7 |
| C22-IsoParaffin | I22 | 163.941 | 2123.80 | 0.0 | 0.001 | 0.001 | 0.000 | 695.5 | 368.0 | |
| n-docosane | P22 | 166.390 | 2200.00 | 0.0 | 0.000 | 0.000 | 0.000 | 694.4 | 368.0 | 629-97-0 |
| | | | | 489 | 100.0 | 100.0 | 100.0 | | | |

## Detailed Hydrocarbon Analysis Report

Operator: Hoang Phung

Raw File: H:\COMPASS\PIANO Dragon II Export\CDF Files Dragon II\1030_HGC26\26040367-001A TopLayer HKP.CDF

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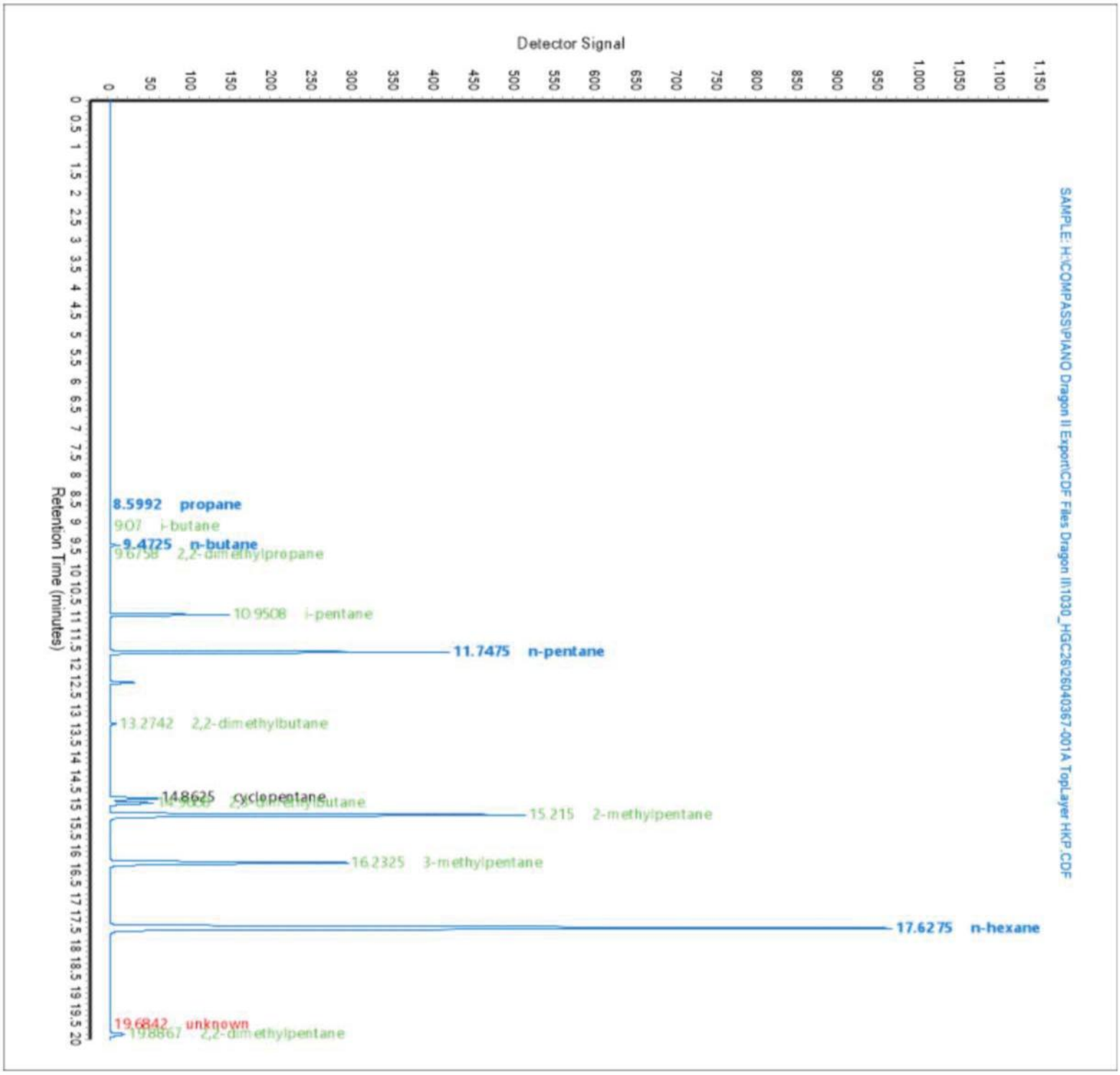
Sample Name: 26040367-001A TopLayer HKP Analyzed: 20-Apr-26, 14:17:59 Acquired: 17-Apr-26 01:22:29 Peaks Processed: 265 Total Area: 489 Normalization Factor: 100%



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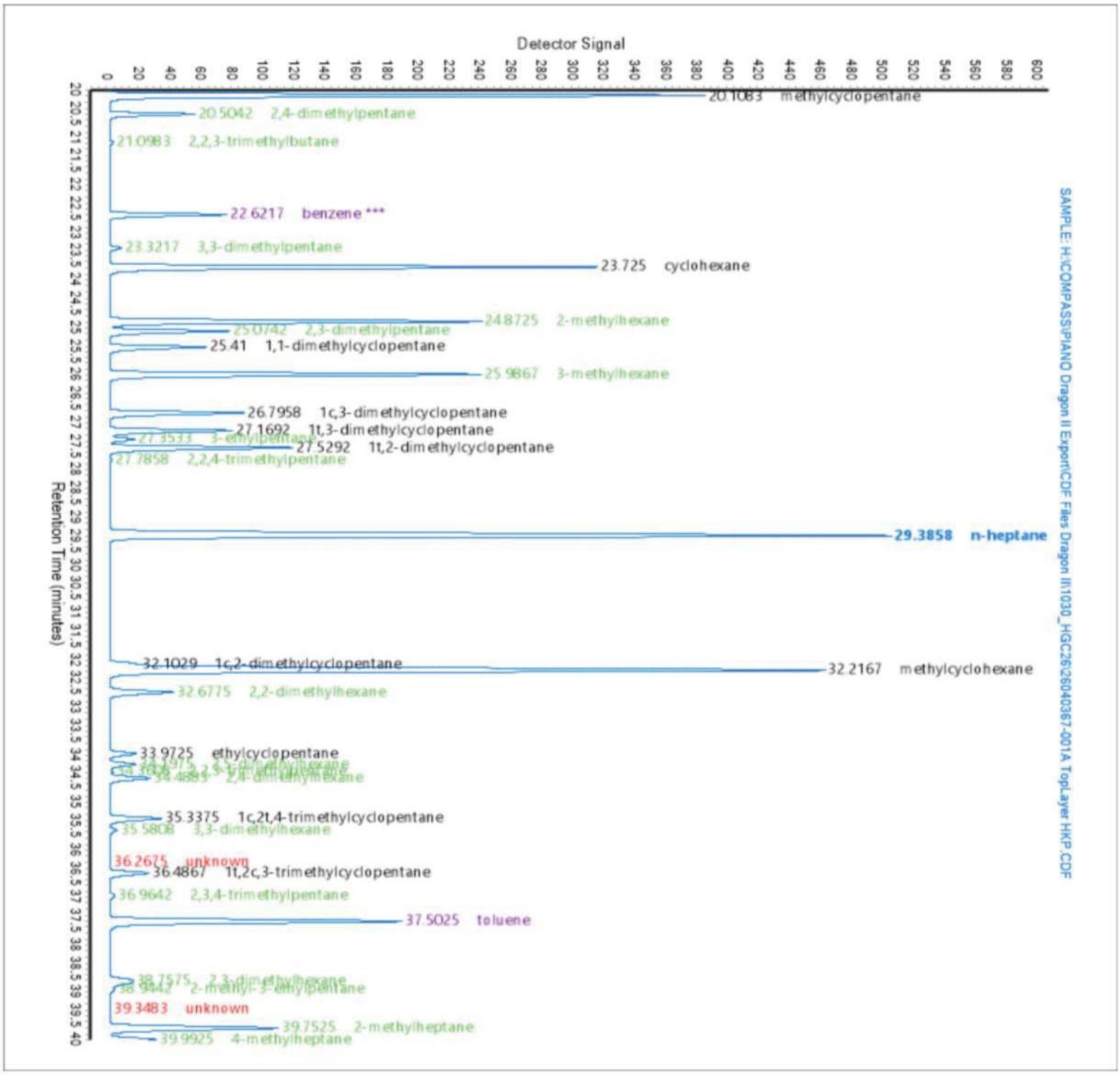

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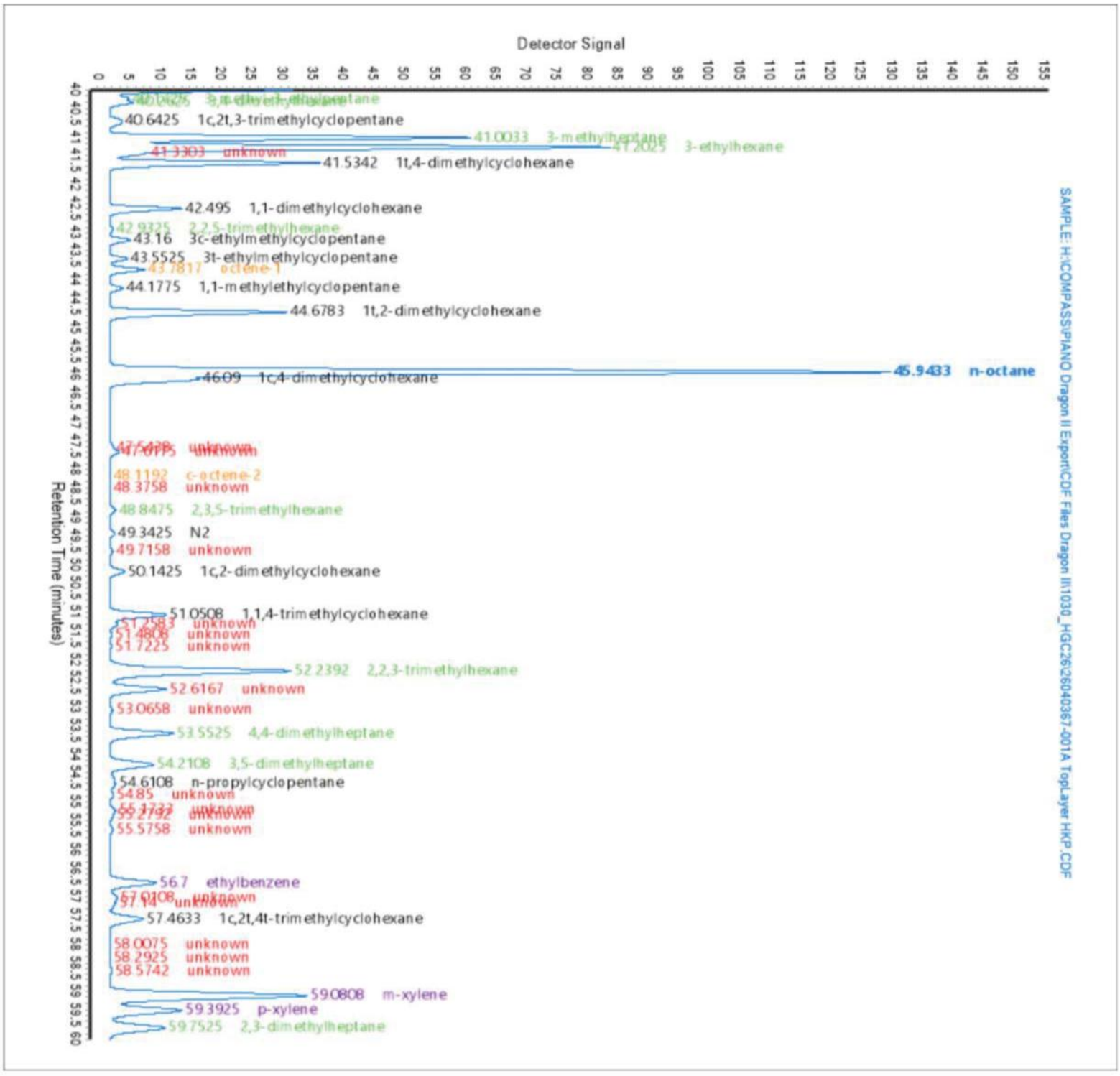

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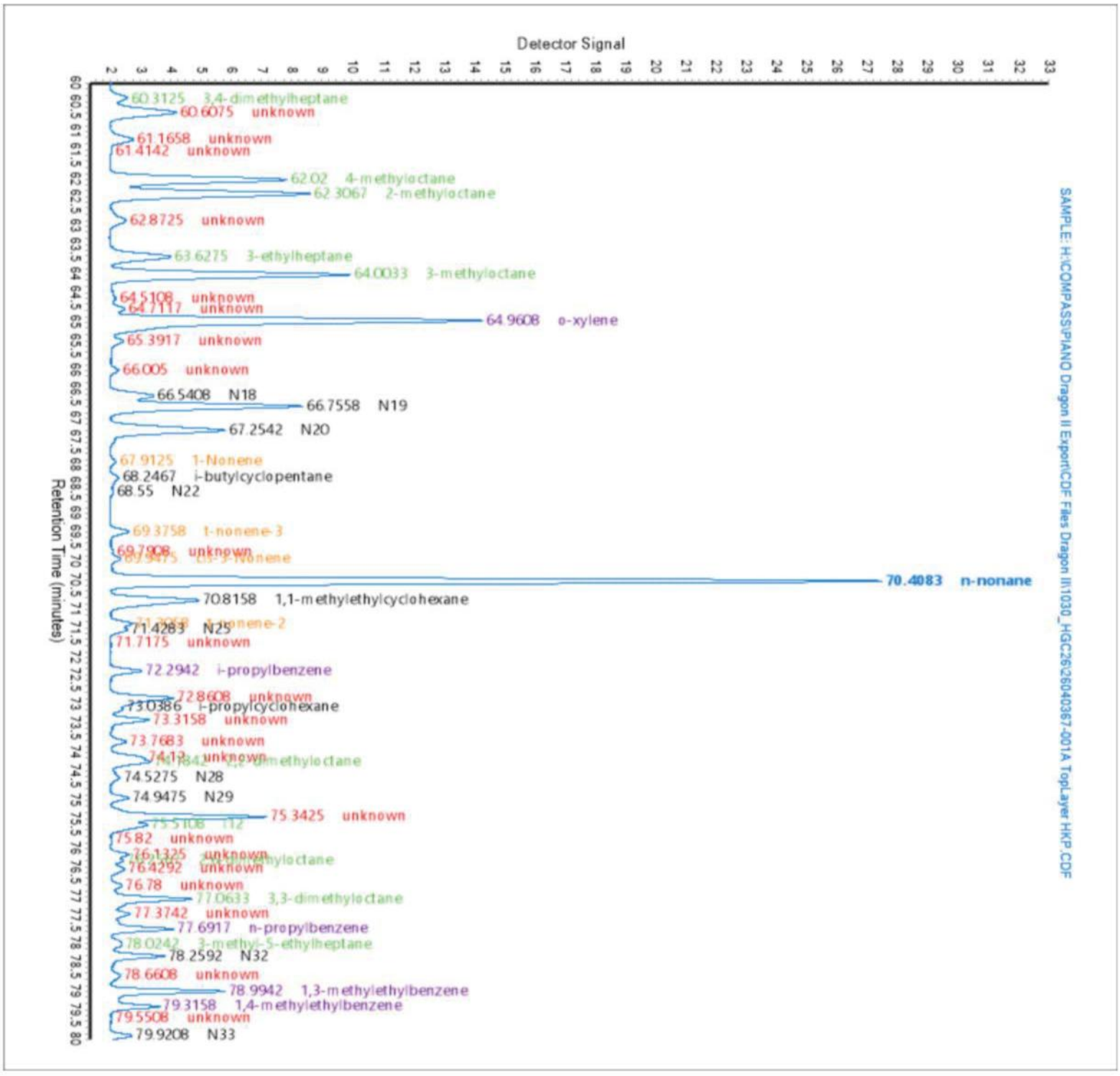

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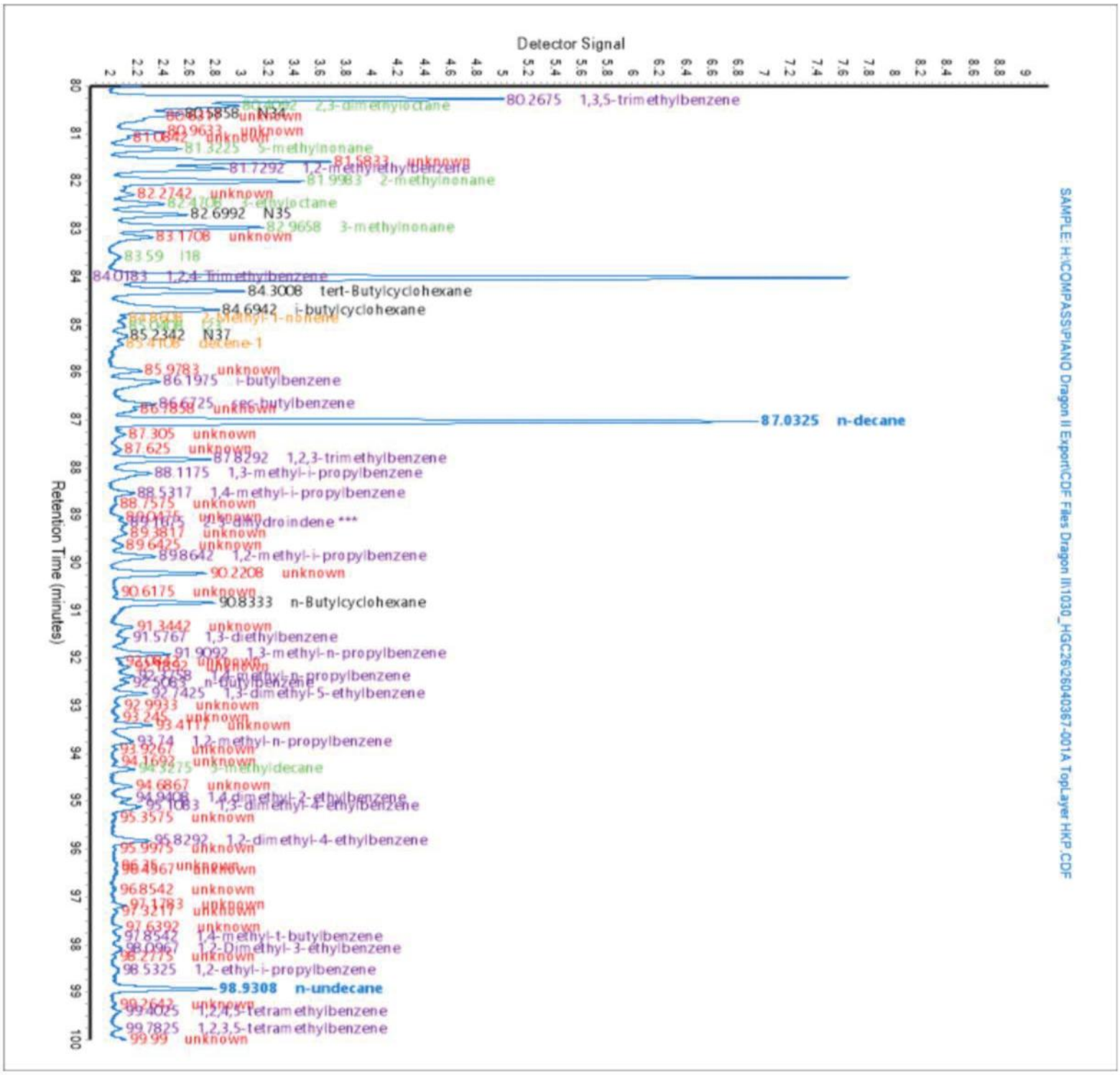

## Detailed Hydrocarbon Analysis Report

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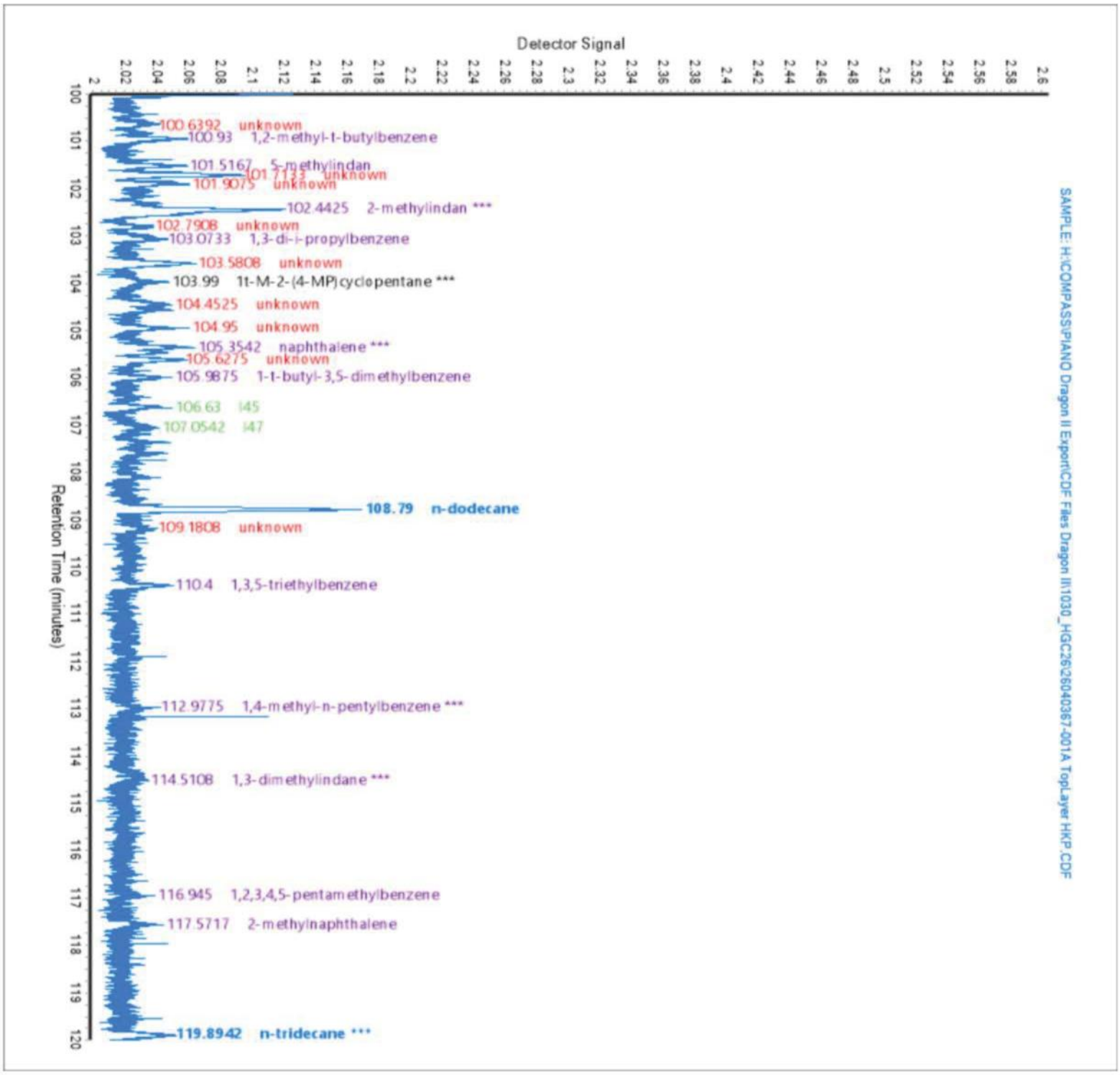

## Detailed Hydrocarbon Analysis Report

Operator: Hoang Phung

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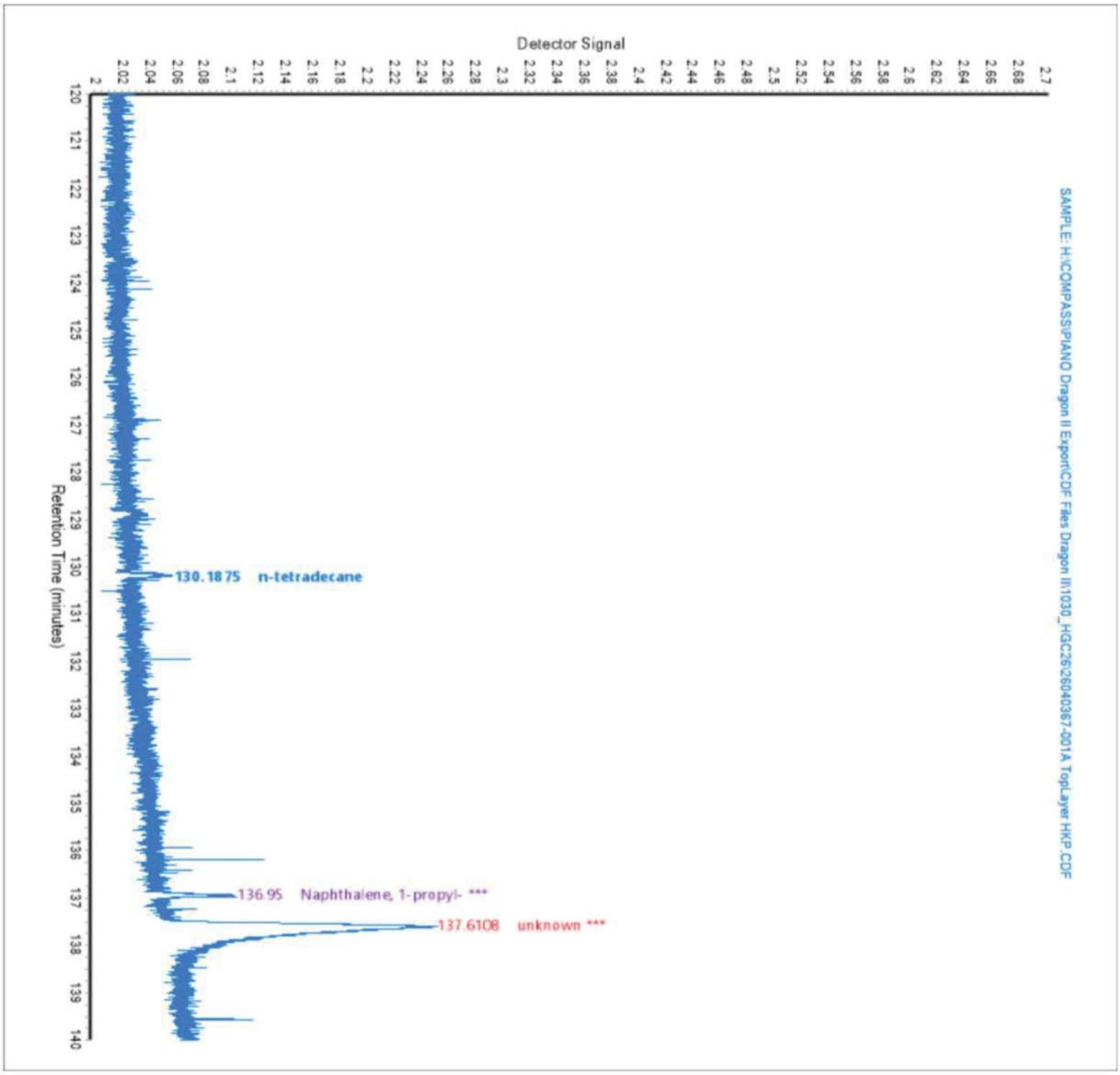

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Operator: Hoang Phung

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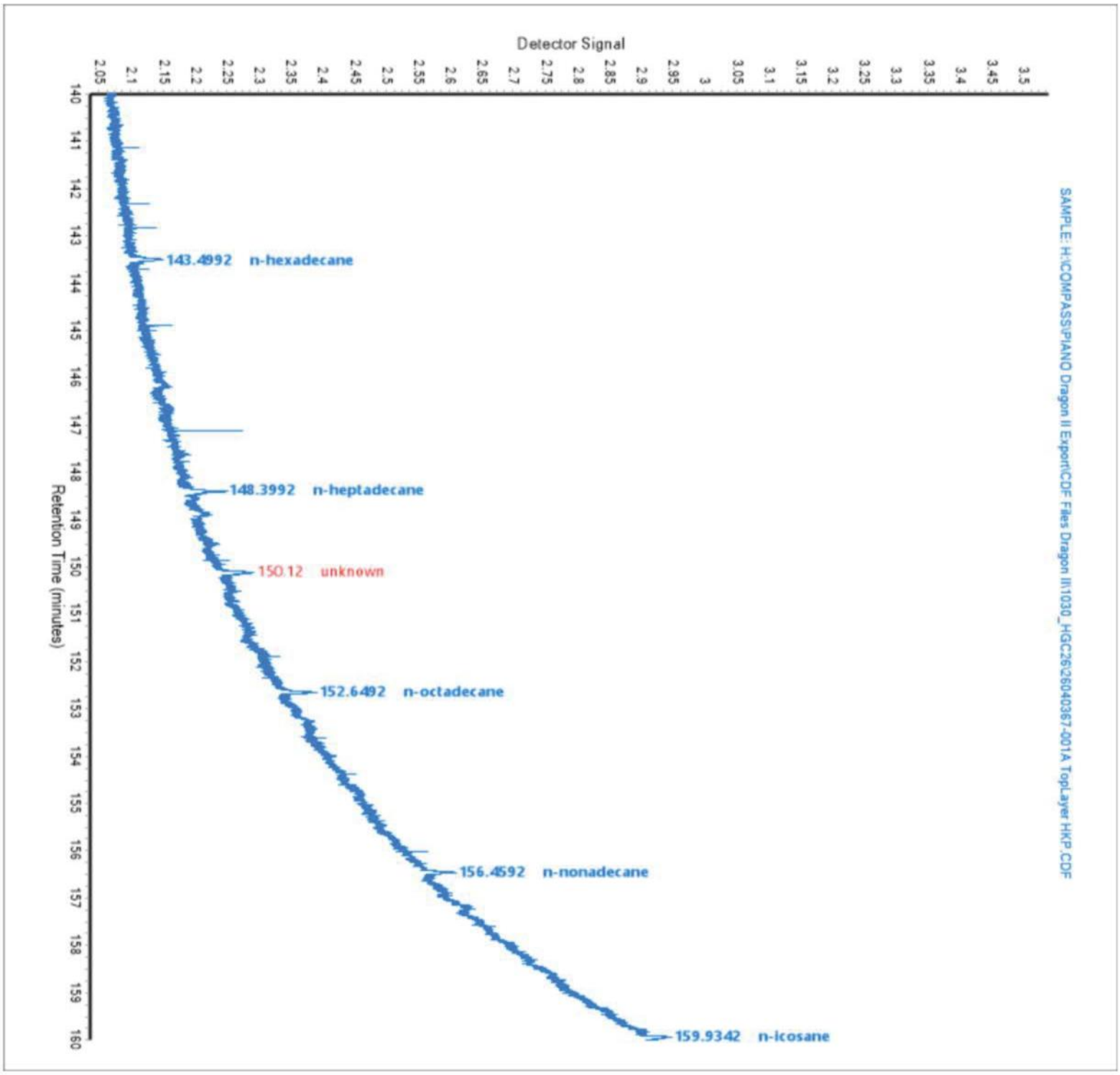

## Detailed Hydrocarbon Analysis Report

Operator: Hoang Phung

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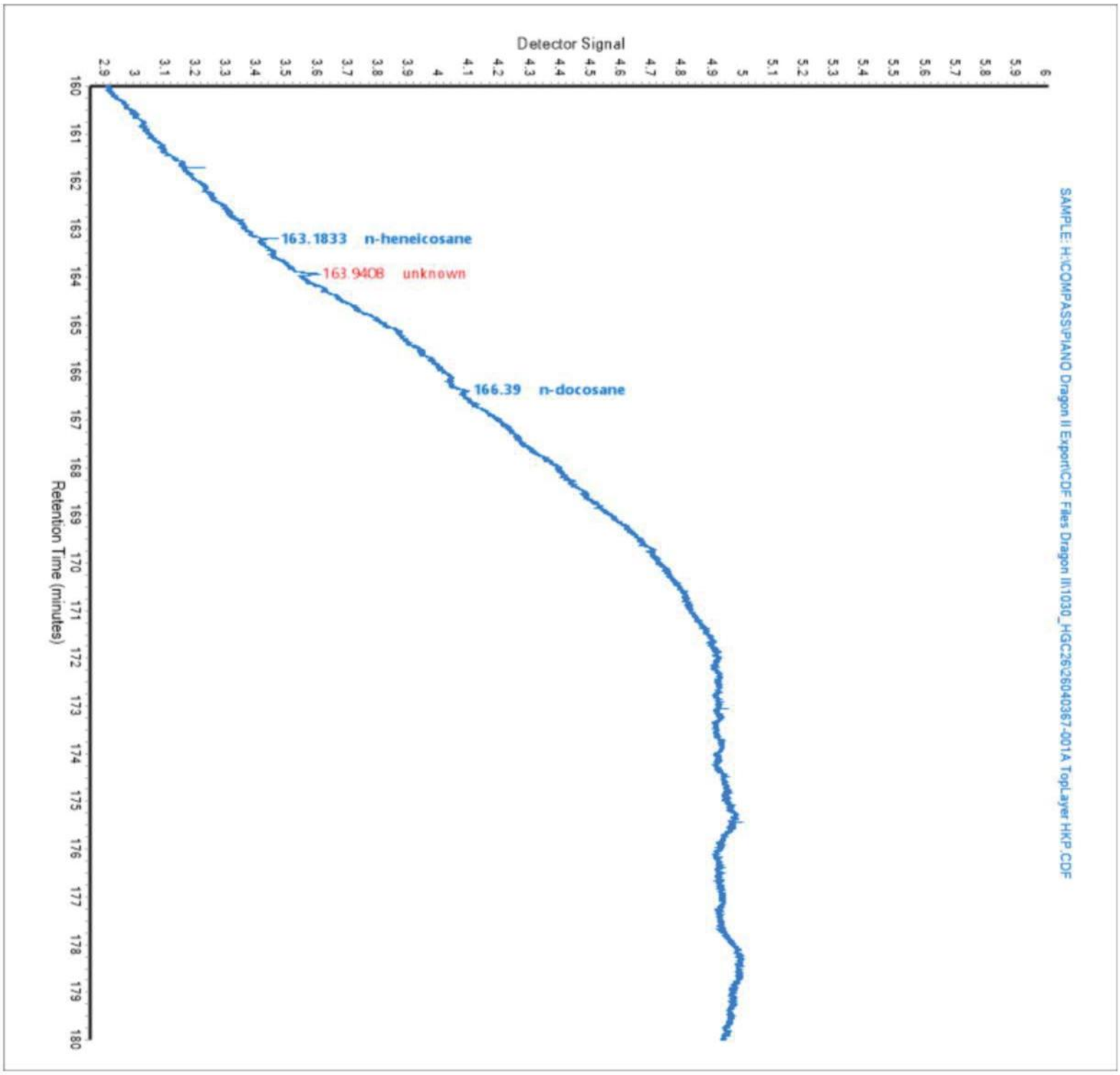

## Detailed Hydrocarbon Analysis Report

Operator: Hoang Phung

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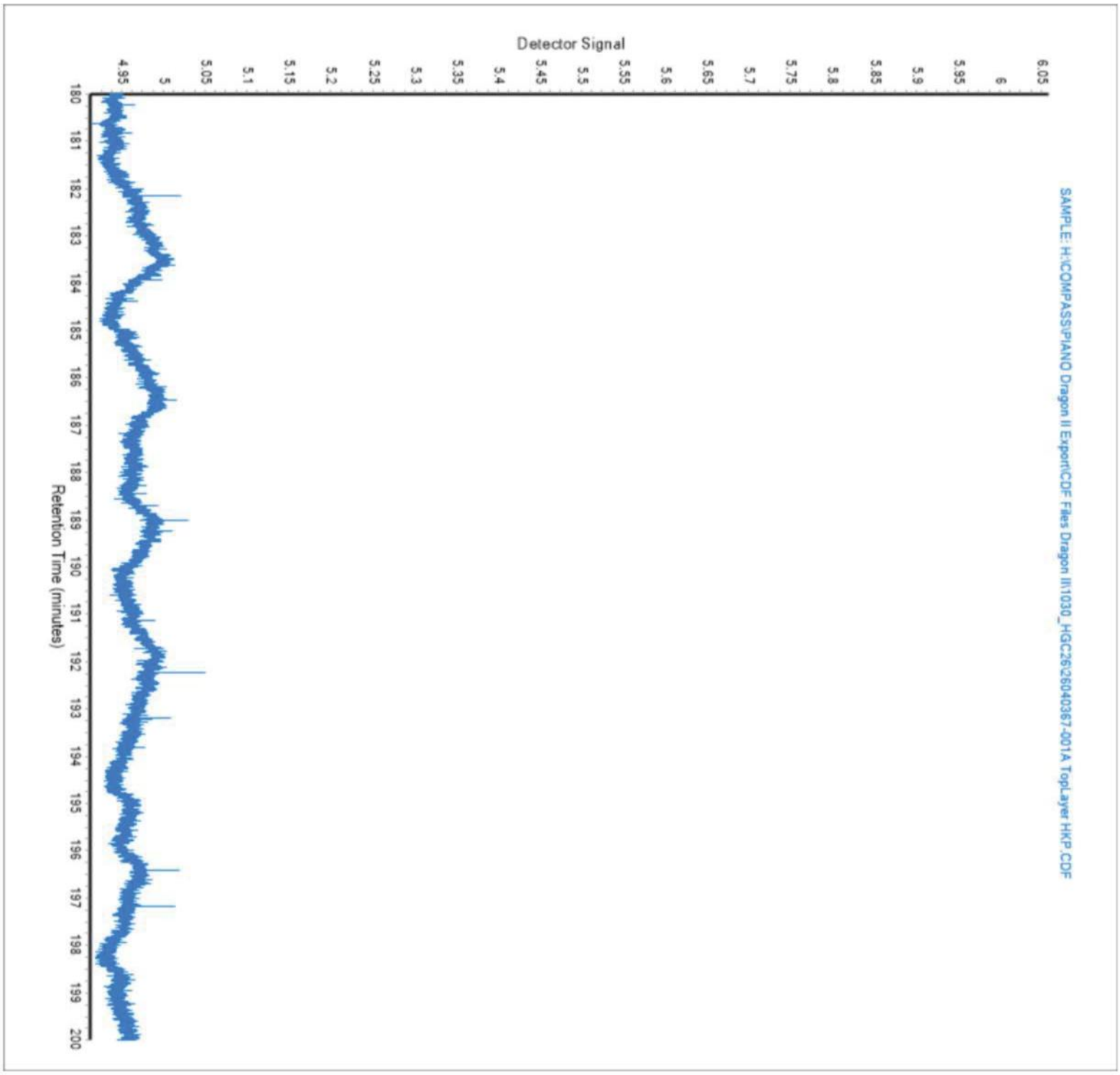

## Detailed Hydrocarbon Analysis Report

Operator: Hoang Phung

Raw File: H:\COMPASS\PIANO Dragon II Export\CDF Files Dragon II\1030_HGC26\26040367-001A TopLayer HKP.CDF

Sample File: H:\COMPASS\PIANO Dragon II Export\DHA Results Dragon II\26040367-001A TopLayer HKP_04202026_1417.DHA *

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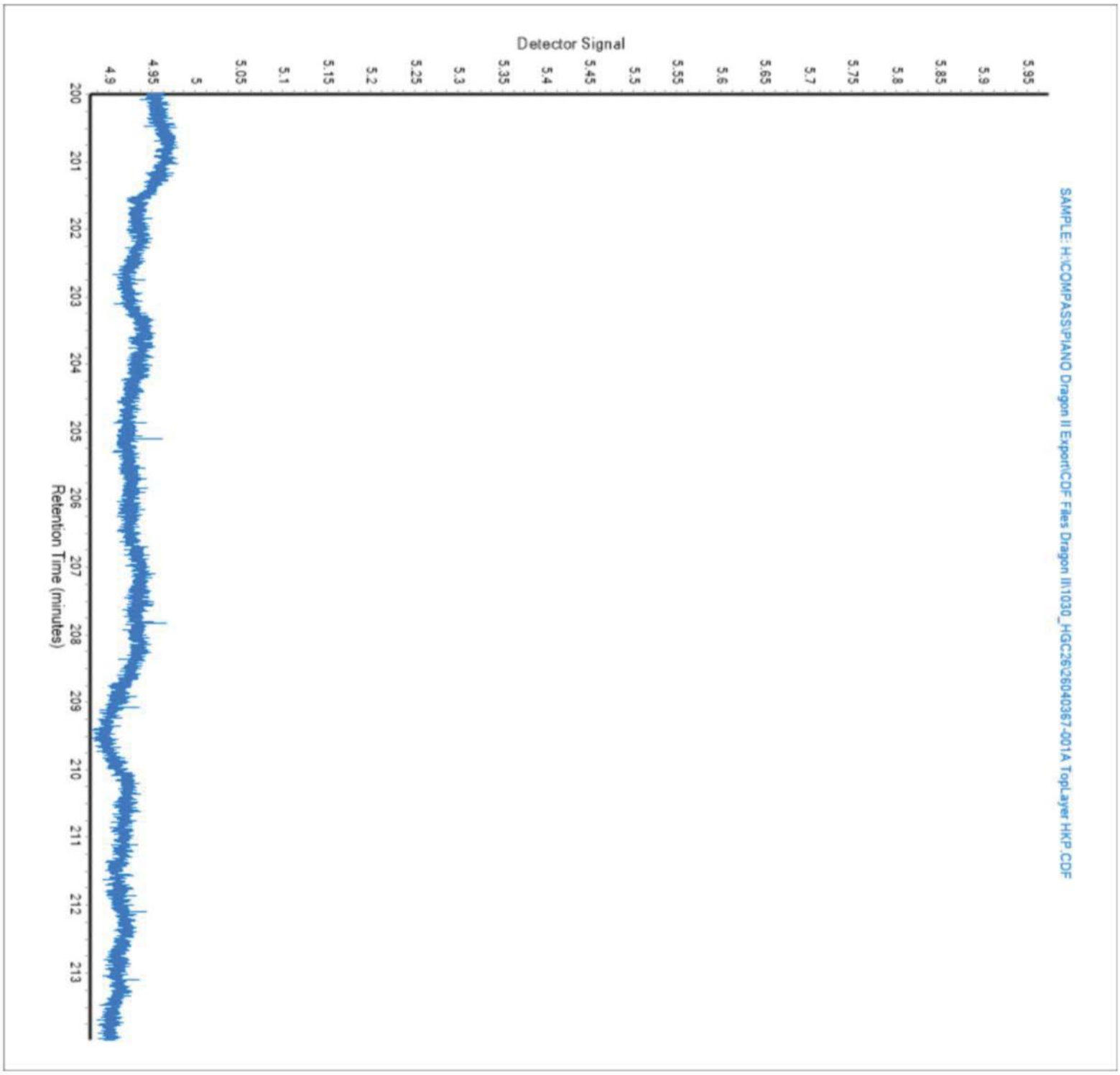


# Certificate of Analysis

Number: 1030-26040367-001B

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

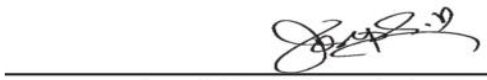
Luke Arnsberger
Dolan Intergration Group
11025 Dover St, Ste 800
Westminister, CO 80021

| | | | |
|---|---|---|---|
| Sample ID: | 26041347-001A | Report Date: | 04/22/2026 |
| Station Name: | DCP Wattenburg Pipeline | Sampled By: | |
| Station Number: | Spill ID 493177 | Sample Of: | Liquid Spot |
| Station Location: | Hwy 52 & CR19 (G) 2/2026 | Sample Date: | 04/01/2026 13:17 |
| Method: | Proprietary | Sample Conditions: | |
| Analyzed: | 04/16/2026 by HKP | Received Date: | 04/10/2026 |
| | | Login Date: | 04/13/2026 |

## Analytical Data

| Analyte | Result | Units | Detection Limit |
|---|---|---|---|
| Methylamine | ND | wt% | 0.01 |
| Dimethylamine | ND | wt% | 0.01 |
| Trimethylamine | ND | wt% | 0.01 |
| Ethanolamine | 14.550 | wt% | 0.01 |
| 2-Dimethylaminoethanol | ND | wt% | 0.01 |
| Pyridine | ND | wt% | 0.01 |
| Piperazine | ND | wt% | 0.01 |
| Diglycolamine | ND | wt% | 0.01 |
| DEA + MDEA | ND | wt% | 0.01 |
| Butyldiethanolamine | ND | wt% | 0.01 |
| Triethanolamine | ND | wt% | 0.01 |

**Comments:** ND = Not Detected, <0.01 wt%
Analysis performed on aqueous layer.



Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# Certificate of Analysis

Number: 1030-26040367-001B

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

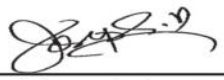
Luke Arnsberger
Dolan Intergration Group
11025 Dover St, Ste 800
Westminister, CO 80021

| | | | |
|---|---|---|---|
| Sample ID: | 26041347-001A | Report Date: | 04/22/2026 |
| Station Name: | DCP Wattenburg Pipeline | Sampled By: | |
| Station Number: | Spill ID 493177 | Sample Of: | Liquid Spot |
| Station Location: | Hwy 52 & CR19 (G) 2/2026 | Sample Date: | 04/01/2026 13:17 |
| Method: | Proprietary | Sample Conditions: | |
| Analyzed: | 04/16/2026 by HKP | Received Date: | 04/10/2026 |
| | | Login Date: | 04/13/2026 |

## Analytical Data

| Analyte | Result | Units | Detection Limit |
|---|---|---|---|
| Ethylene Glycol | 0.63 | wt% | 0.01 |
| Propylene Glycol | ND | wt% | 0.01 |
| Diethylene Glycol | ND | wt% | 0.01 |
| Triethylene Glycol | 70.10 | wt% | 0.01 |

**Comments:** ND = Not Detected, <0.01 wt%
Analysis performed on aqueous layer.



Joseph Ponminissery, Laboratory Director

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# Certificate of Analysis

Number: 1030-26040367-001B

**Houston Laboratories**
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

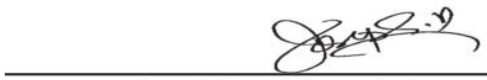
Luke Arnsberger
Dolan Intergration Group
11025 Dover St, Ste 800
Westminister, CO 80021

| | | | |
|---|---|---|---|
| Sample ID: | 26041347-001A | Report Date: | 04/22/2026 |
| Station Name: | DCP Wattenburg Pipeline | Sampled By: | |
| Station Number: | Spill ID 493177 | Sample Of: | Liquid Spot |
| Station Location: | Hwy 52 & CR19 (G) 2/2026 | Sample Date: | 04/01/2026 13:17 |
| Method: | ORYX | Sample Conditions: | |
| Analyzed: | 04/21/2026 by HKP | Received Date: | 04/10/2026 |
| | | Login Date: | 04/13/2026 |

## Analytical Data

| Analyte | Result | Units | Detection Limit |
|---|---|---|---|
| Methane | ND | wt% | 0.001 |
| Ethane | ND | wt% | 0.001 |
| Propane | ND | wt% | 0.001 |
| Iso-Butane | ND | wt% | 0.001 |
| n-Butane | 0.969 | wt% | 0.001 |
| Iso-Pentane | 2.656 | wt% | 0.001 |
| n-Pentane | 5.251 | wt% | 0.001 |
| Cyclopentane | 0.984 | wt% | 0.001 |
| i-Hexanes | 8.112 | wt% | 0.001 |
| n-Hexane | 9.633 | wt% | 0.001 |
| Methylcyclopentane | 4.763 | wt% | 0.001 |
| Benzene | 4.994 | wt% | 0.001 |
| Cyclohexane | 4.394 | wt% | 0.001 |
| i-Heptanes | 9.614 | wt% | 0.001 |
| 2,2,4-Trimethylpentane | ND | wt% | 0.001 |
| n-Heptane | 7.230 | wt% | 0.001 |
| Methylcyclohexane | 7.435 | wt% | 0.001 |
| Toluene | 6.637 | wt% | 0.001 |
| i-Octanes | 9.600 | wt% | 0.001 |
| n-Octane | 2.664 | wt% | 0.001 |
| Ethylbenzene | 0.274 | wt% | 0.001 |
| m-Xylene | 1.426 | wt% | 0.001 |
| p-Xylene | 0.466 | wt% | 0.001 |
| o-Xylene | 0.530 | wt% | 0.001 |
| i-Nonanes | 3.446 | wt% | 0.001 |
| n-Nonane | 0.582 | wt% | 0.001 |
| i-Decanes | 1.072 | wt% | 0.001 |
| n-Decane | 0.085 | wt% | 0.001 |
| Undecanes Plus | 7.182 | wt% | 0.001 |

**Comments:** Undecanes Plus hydrocarbon range is C11-C26.
Major components in Undecanes Plus are C15, C22.
Analysis performed on aqueous layer.



Joseph Ponminissery, Laboratory Director

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