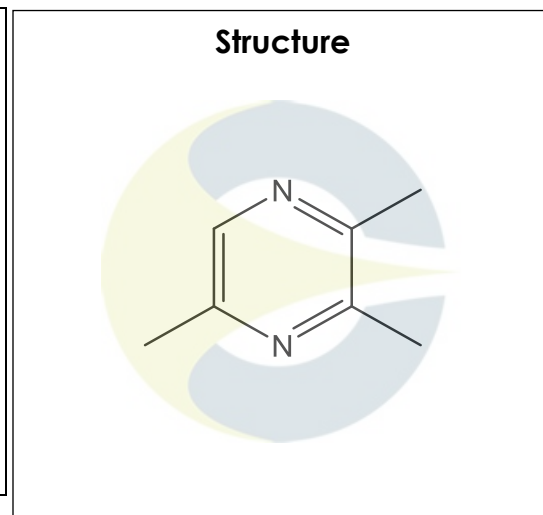


**Certificate of Analysis**
*For Laboratory Use Only*

<b>PRODUCT NAME</b>	2,3,5-Trimethylpyrazine
<b>PART NUMBER</b>	00020486
<b>STANDARD TYPE</b>	Analytical Standard (AS)
<b>LOT NUMBER</b>	00020486-943
<b>REPORT NUMBER</b>	CDXA-RSS-3850-02
<b>SAMPLE NUMBER</b>	CDXA-10-0842
<b>DATE OF SAMPLE</b>	02/04/2010
<b>DATE OF RE-EVALUATION</b>	02/24/2016 (1 <sup>st</sup> ); 01/05/2022 (2 <sup>nd</sup> )
<b>DATE OF REPORT</b>	01/11/2022



<b>CHEMICAL NAMES</b>	Trimethylpyrazine; 2,3,6-Trimethylpyrazine
<b>CHEMICAL FORMULA</b>	C <sub>7</sub> H <sub>10</sub> N <sub>2</sub>
<b>MOLECULAR WEIGHT (MW)</b>	122.17
<b>CHEMICAL FAMILY</b>	Alkaloids
<b>CAS NUMBER</b>	[14667-55-1]
<b>EC#(EINECS)</b>	238-712-0
<b>RTECS</b>	UQ3907000

**ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
GC	0.700.10.2.METH140	≥ 75%	99.9%
Mass Spectrum	0.700.10.2.METH140	Conforms	Conforms
Appearance	NA	NA	Liquid

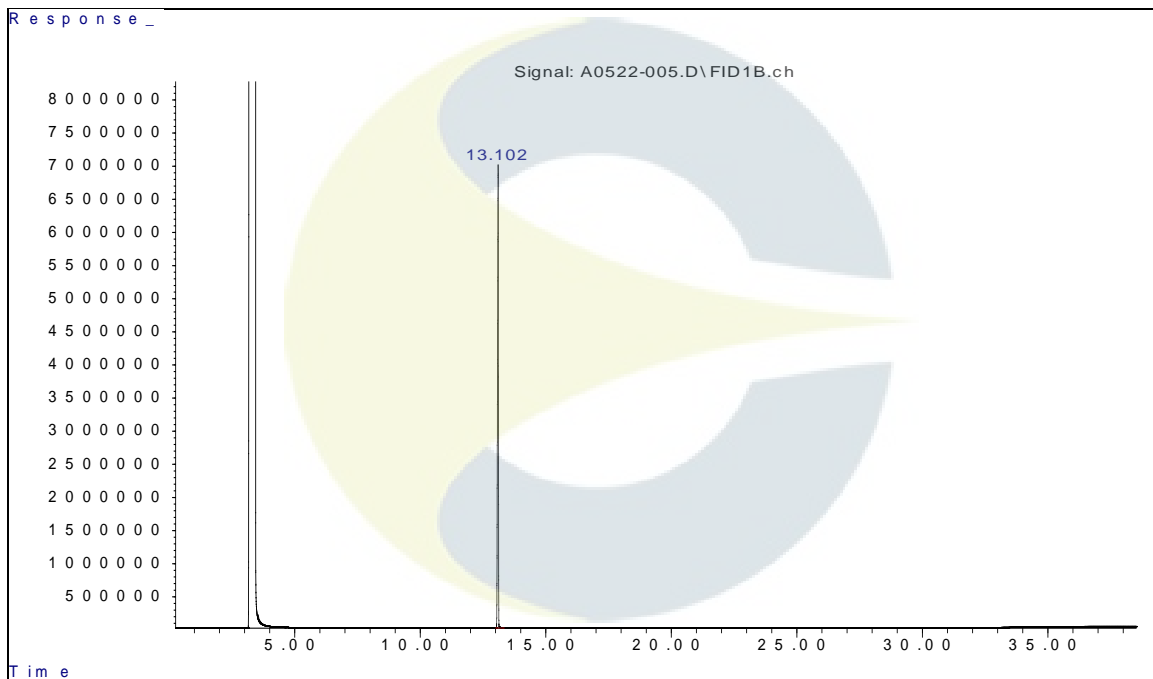
**STORAGE CONDITIONS**

<b>STORAGE</b>	Room Temperature in a dry place.
<b>EXPIRATION DATE</b>	01/2027 under the above conditions.

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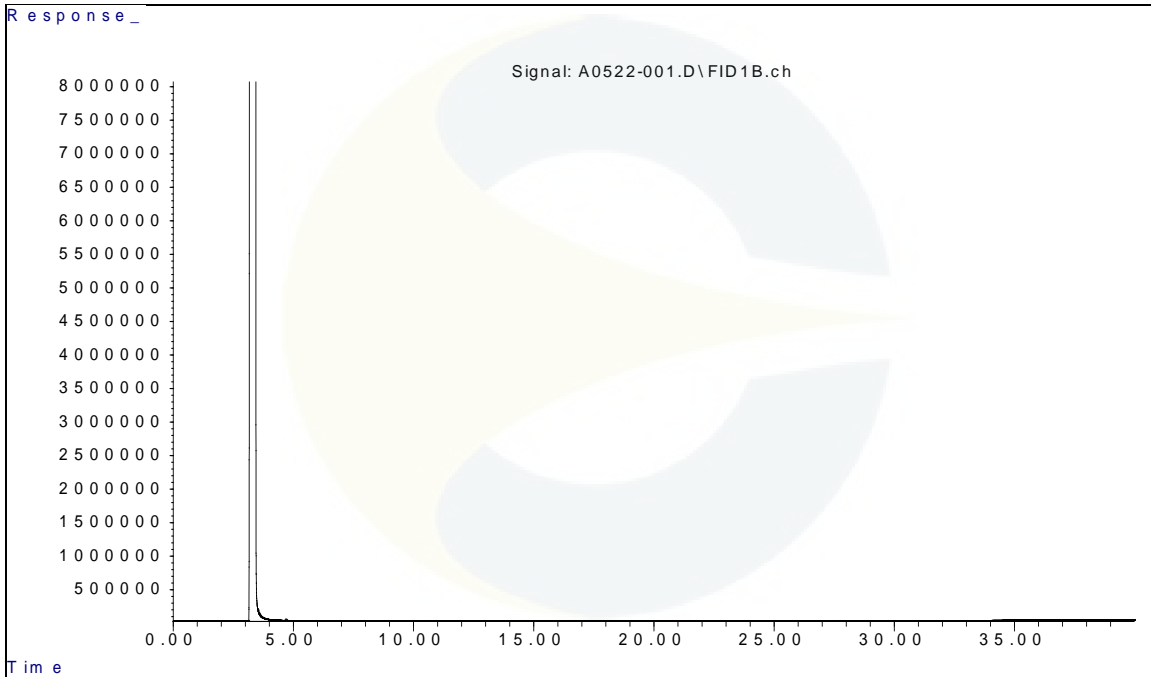
**ANALYTICAL CONDITIONS**

<b>INSTRUMENT</b>	AGILENT 7890B WITH FLAME IONIZATION DETECTOR (FID) AND AGILENT 5977B MASS SELECTIVE DETECTOR (MSD)
<b>COLUMN</b>	Phenomenex Zebron ZB-5plus, 30 m x 0.32 mm x 0.25 µm
<b>CARRIER GAS</b>	Helium
<b>COLUMN TEMP.</b>	Isothermic 40 °C for 5.0 minutes, then increasing at 10.0 °C/minute to 340 °C. Hold at 340 °C for 5.0 minutes.
<b>FLOW RATE</b>	2.0 mL/minute
<b>INJECTOR TEMP.</b>	300 °C
<b>INJECTOR SPLIT RATIO</b>	20:1
<b>INJECTION VOL.</b>	1.0 µL
<b>INJECTION CONC.</b>	3.1 mg/mL in Methanol
<b>DETECTION</b>	FID (300 °C) & MSD (Transfer line 280 °C, Source 230 °C, Quad 150 °C)

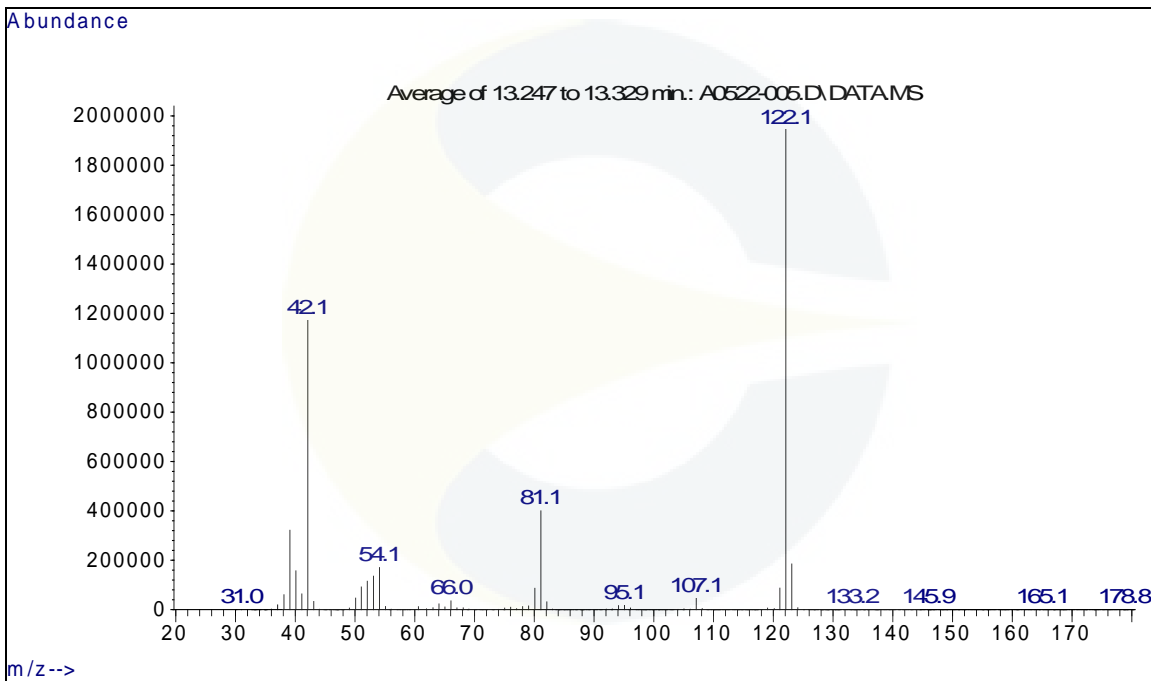
**GC CHROMATOGRAM OF 2,3,5-TRIMETHYLPYRAZINE (CDXA-10-0842)**


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**GC CHROMATOGRAM OF DILUENT BLANK**



**MASS SPECTRUM OF 2,3,5-TRIMETHYLPYRAZINE (CDXA-10-0842)**



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**REVISION HISTORY**

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	02/12/2010	New report
01	03/14/2016	Passed re-evaluation by GC/FID. Updated expiration date, standard type, chemical names and RTECS.
02	01/11/2022	Passed re-evaluation by GC/FID. Updated expiration date, analytical conditions, results, and chromatograms.

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