State of North Dakota)
)ss
County of Burleigh)

I, Roberta Grieger-Nimmo, do hereby certify that I am a Forensic Scientist for the State of North Dakota and an official custodian of the records and files of the office thereof, that I have carefully compared the

Ethanol Breath Standard Analytical Report, Lot No. 17618080A1, Expiration 08/05/2020 (08/30/2018)

hereto attached with the respective original as the same appears of record on file at the Office of Attorney General, Crime Laboratory Division, in the County of Burleigh, North Dakota, and find the same to be a true and correct copy thereof and of the whole thereof. In witness whereof I have set my hand at the city of Bismarck, in said county this:

30th day of August, 2018

Roberta Grieger-Nimmo
Roberta Grieger-Nimmo, Forensic Scientist

State of North Dakota)
)ss
County of Burleigh)

On this 30th day of August, 2018, before me personally appeared Roberta Grieger-Nimmo, known to me to be a Forensic Scientist for the State of North Dakota, and acknowledged to me that he has executed the same.

Subscribed to and sworn before me this:

30th day of August, 2018

Jeremy Spaeth, Notary Public
State of North Dakota
My Commission Expires November 5, 2019

JEREMY SPAETH
Notary Public
State of North Dakota
My Commission Expires Nov. 05, 2019

(SEAL)

OFFICE OF ATTORNEY GENERAL
CRIME LABORATORY DIVISION
Toxicology Section/Breath Alcohol Program

BrW-001

ETHANOL BREATH STANDARD ANALYTICAL REPORT

Ethanol Breath Standard Lot Number 17618080A1 Expiration Date 08-05-2020

This standard was analyzed by ILMO Specialty Gases with a reported result of 208 ppm which is the equivalent of 0.080 AC of Ethanol in Nitrogen. ILMO Specialty Gases has provided a Certificate of Analysis traceable to N.I.S.T. SRM Ethanol Standards.

A proper result for the standard test using a cylinder of this lot number would be the range of 0.075 to 0.085 g ethanol/210 L of vapor (g/100 ml of blood or g/210 L of end expiratory breath).

The Intoxilyzer® will print out the value of the standard test in 3 digits on Intoxilyzer® Test Record (Form 106-I8000).

The number of cylinders sent to each location will be based on need. The standard may be used until the date of expiration as indicated by the manufacturer's Certificate of Analysis.

Roberta Grieger-Nimmo

Roberta Grieger-Nimmo, Forensic Scientist

30 Aug 18

Date Approved

ILMO specialty gases

7 Eastgate Dr. • P.O. Box 790 • Jacksonville, IL 62651-0790
217-245-2183 • Fax: 217-243-7634 • www.ilmoproducts.com

Certificate of Analysis

Certificate ID: 11264

Part #: BAC105L080T
Cylinder Size: 105L
Lot Number: 17618080A1
Expiration: 8/5/2020

0.080 **BAC (For the calibration of instruments used to determine breath alcohol concentration)**

Contents: 105 Liters @ 1000 psig 70°F (21°C)

Component:	Reported Concentration:	Analytical Accuracy (U, k=2):	Analytical Method:
Ethanol	208 ppm	+/-0.002 BAC(G/210L) [5.2 ppm]	NDIR
Nitrogen	Balance		

Distributed by:

CMI Inc.
316 East Ninth Street
Owensboro, KY 42303
Phone 866-835-0690
www.alcoholtest.com

*NIST Traceable Reference Material
Cylinder No. CC274523 / Job No. 09160306
Certified 362.2 µmol/mol Ethanol in Nitrogen

Store in dry area, away from sources of heat, ignition and direct sunlight. Do not allow storage area to exceed 52 °C (125 °F).

Specialty Gas Lab Tech

07/25/18
Date

PJLA
Calibration and Testing
Accreditation #61895

ISO/IEC 17025:2005 Accredited Laboratory

ILMO specialty gases
Corporate Office
P.O. Box 790, 7 Eastgate Drive
Jacksonville, IL 62651
217-245-2183
Fax: 217-243-7634
www.ilmoproducts.com

Certificate of Analysis

Customer	CMI Calibration Laboratory, CMI Inc. 316 East Ninth Street, Owensboro, KY 42303
Item Description	Ethanol Dry Gas Standard (Ethanol in Nitrogen)
Target Value	0.080 BAC
Lot Number	17618080A1
Manufacture Date	June 25, 2018
Expiration Date	August 5, 2020
Analysis Type/Test Method	NDIR/DMT-1
Lot Average (ppm/BAC)	210 / 0.081
Lot Measurement of Uncertainty [+/- ppm/BAC]	5.2/0.002

NTRM Information	
Batch#	09160306
Serial#	CC274523
Reported NIST Value (ppm)	362.2

Specialty Gas Analytical Lab Technician
ILMO Products Company

07-25-18
Date

* The stated expanded uncertainty was determined from the combined uncertainty associated with the following: calibration standard, equipment accuracy, repeatability and random variability (instrument readability). The uncertainty is expressed as $U = ku$, where u is the combined standard uncertainty and the coverage factor k is equal to 2, yielding a level of confidence of approximately 95%.

* The results on this report relate only to the items tested in the group of cylinders designated by the 'Lot Number' field.