



**SHIPPED TO:** Spectra Gases Shanghai Trading Co Ltd  
 No. 284 Minkang Rd, Minzhi St.  
 Longhua Dist. Shenzhen City 518109

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**CERTIFICATE OF ANALYSIS**

<b>Sales#:</b>	116712273	<b>Cylinder Size:</b>	185 (3.2" X 9.4")
<b>Production#:</b>	1467235	<b>Cylinder # :</b>	AB-109826
<b>Certification Date:</b>	Sep-07-2018	<b>Cylinder Pressure:</b>	1700 psig
<b>P.O.# :</b>	2018080280	<b>Cylinder Valve:</b>	CGA 180 / Aluminum
<b>Blend Type:</b>	CERTIFIED	<b>Cylinder Volume:</b>	0.8 Liter
<b>Material#:</b>	24086379	<b>Cylinder Material:</b>	Aluminum
<b>Traceability:</b>	NIST by weight	<b>Gas Volume:</b>	98 Liters
<b>Expiration Date:</b>	Mar-07-2020	<b>Blend Tolerance:</b>	10% Relative
<b>Do NOT use under:</b>	150 psig	<b>Analytical Accuracy:</b>	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Bromochloromethane	74-97-5	1.00 ppm	0.94 ppm
1,4-Difluorobenzene	540-36-3	1.00 ppm	0.97 ppm
Chlorobenzene-d5	3114-55-4	1.00 ppm	0.99 ppm
4-Bromofluorobenzene	460-00-4	1.00 ppm	0.97 ppm
Nitrogen	7727-37-9	Balance	Balance

**ANALYST:** \_\_\_\_\_  
 Brian Bramkamp

**DATE:** Sep-07-2018