



# GEORGIA

DEPARTMENT OF NATURAL RESOURCES

## ENVIRONMENTAL PROTECTION DIVISION

**Richard E. Dunn, Director**

**Air Protection Branch**  
 4244 International Parkway, Suite 120  
 Atlanta, Georgia 30354  
 404-363-7000

**MEMORANDUM:**

TO: Sean Taylor  
 THROUGH: Daniel McCain  
 FROM: Ray Shen  
 SUBJECT: SOURCE TEST REPORT REVIEW

The following test has been reviewed and was conducted in an acceptable fashion for the purpose intended.

COMPANY NAME	Chemence Medical. Inc
COMPANY LOCATION	Alpharetta, GA
SOURCE TESTED	ACA (Activated Carbon Abator)
POLLUTANT DETERMINED	Ethylene Oxide
REPORT REVIEWED BY	Ray Shen
TEST WITNESSED BY	Marcus Cureton
DATE(S) OF TEST	December 15, 2021 to December 16, 2021
DATE RECEIVED BY APB	January 27, 2022
MAXIMUM EXPECTED OPERATING CAPACITY	36 Tote per Batch
OPERATING CAPACITY	36 Tote per Batch
ALLOWABLE EMISSION RATE	N/A
APPLICABLE REGULATION	Incomplete
CONTROL EQUIPMENT AND MONITORING DATA	ACA (Activated Carbon Abator)

TEST RUN #		1	2	AVERAGE
GAS TEMPERATURE (°F)	Inlet	74	72	
	Exhaus	62	61	
GAS MOISTURE (%)	Inlet	2.4	2.7	
	Exhaus	1.9	1.8	
GAS FLOW RATE (ACFM)	Inlet	92.6	137.5	
	Exhaus	92.6	137.5	
GAS FLOW RATE (DSCFM)	Inlet	87.6	129.5	
	Exhaus	87.6	129.5	
POLLUTANT CONCENTRATION (PPM)	Inlet	200	240	220
	Exhaus	0.036	0.064	0.050
EMISSION RATE (LB/HR)	Inlet	0.120	0.213	0.166
	Exhaus	0.0000216	0.0000569	0.0000392
DESTRUCTION EFFICIENCY (%)				



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OTHER INFORMATION

Due to uncertainty with the outlet flow measurements, ISMU calculated outlet mass emission rates (Lb./Hr.) using the inlet flowrate in place of outlet flowrate. Run 1 (Sterilization Sealed Cycle) with DRE of 99.98%. Run 2 (Bagcut Vent Cycle) with DRE of 99.97%. Samples were collected in summa canisters (Method TO-15), then analyzed by GC/MS in SIM mode by Eurofins. Recoveries were within req'd 70% to 130%.