

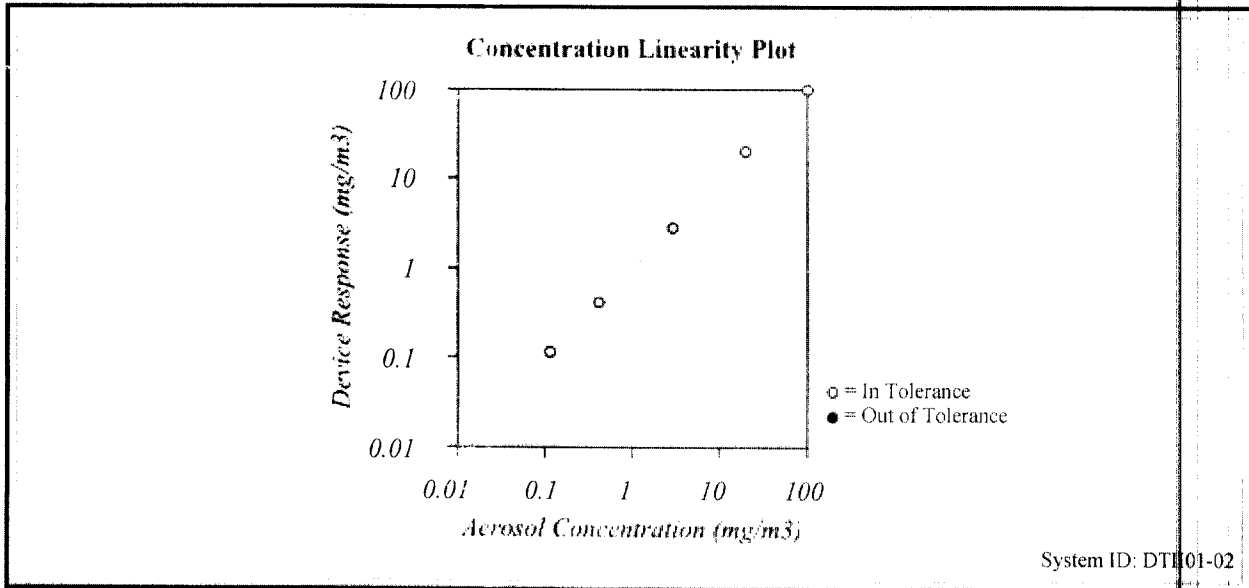


CERTIFICATE OF CALIBRATION AND TESTING

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA
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Environment Conditions			Model	AM520
Temperature	73.9 (23.3)	°F (°C)	Serial Number	5201905002
Relative Humidity	23	%RH		
Barometric Pressure	29.06 (984.1)	inHg (hPa)		

<input checked="" type="checkbox"/> As Left	<input checked="" type="checkbox"/> In Tolerance
<input type="checkbox"/> As Found	<input type="checkbox"/> Out of Tolerance



CONCENTRATION				Unit: mg/m3			
#	STANDARD	MEASURED	ALLOWABLE RANGE	#	STANDARD	MEASURED	ALLOWABLE RANGE
1	0.115	0.114	0.080-0.150	4	19.799	19.774	17.738-21.680
2	0.416	0.415	0.354-0.478	5	102.404	101.125	92.164-112.644
3	2.901	2.829	2.511-3.191				

TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. There is no NIST standard for optical mass measurements. Calibration of this instrument performed by TSI has been done using emery oil and has been nominally adjusted to respirable mass per standard ISO 12103-1. All test dust (Arizona dust). Our calibration ratio is greater than 4:1.

Measurement Variable	System ID	Last Cal.	Cal. Due	Measurement Variable	System ID	Last Cal.	Cal. Due
DC Voltage	E003314	01-15-20	01-31-21	DC Voltage	E003315	01-15-20	01-31-21
Photometer	E005612	08-29-19	02-29-20	Microbalance	M001324	10-03-18	10-31-20
Pressure	E003511	10-04-19	10-31-20	Flowmeter	E003769	04-03-19	04-30-20

February 10, 2020

 Calibrated Date