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## Add to Cart

# **ANALYTICAL LABORATORY**

reserved moridanide. QA/QC MANUAL (suitable for Aerospace application)

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#### 1.0 INTRODUCTION

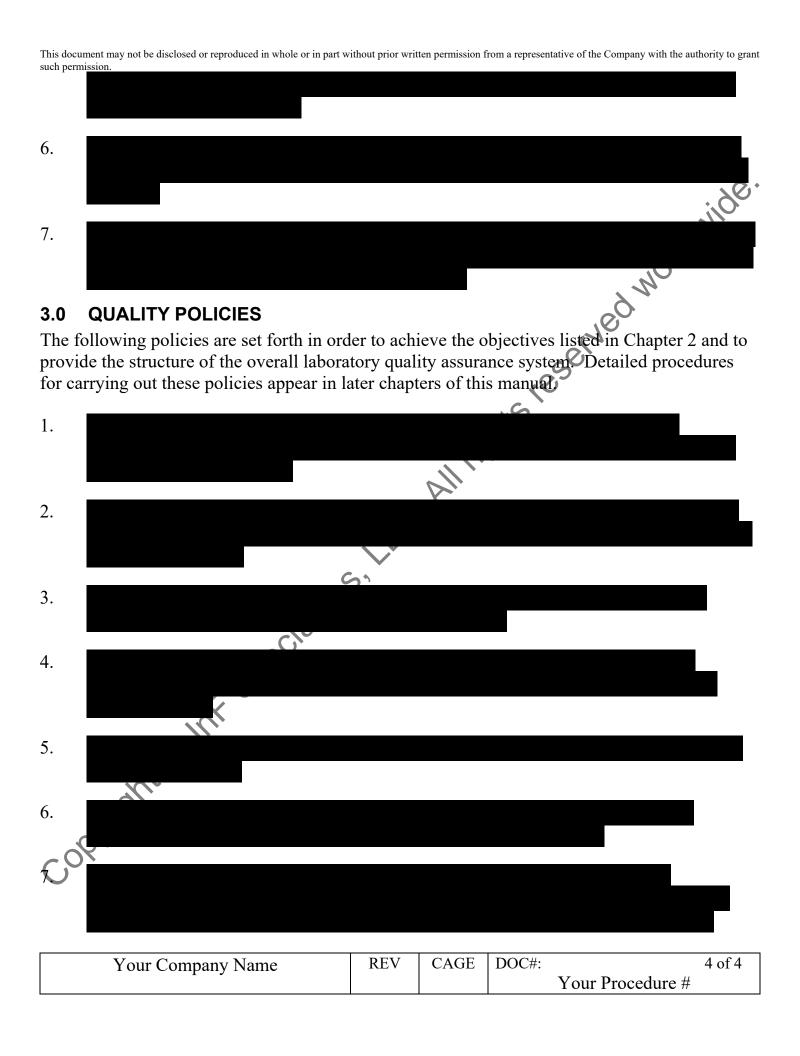
This manual describes the quality assurance system employed in the Analytical Chemistry Laboratory at (Your Co). Any quality assurance items that are specifically applicable to environmental will be noted. This document is intended for use by employees and Customers of (Your Co) to provide a working knowledge of Policies and Standard Operating Procedures (SOP's) used to control the quality of work performed in the laboratory. These procedures have been developed as a result of (Your Co) continuing commitment to quality. Government Agencies and Customer requirements have provided guiding influences on this development.

Responsibility for quality compliance begins with each analyst and ultimately resides with management. No quality system can succeed without constant adherence in daily practice. This will only be accomplished when the system is given proper attention by the company's leaders. The signatures on the cover page of this manual signify full authorization and approval by the Management and Chemistry Laboratory Technicians of (Your Co). The provisions of this manual are binding on those individuals given the responsibilities outlined herein.

### 2.0 QUALITY GOALS AND OBJECTIVES

The primary goal of the laboratory quality assurance system is accuracy, consistency, and defensibility of results. This goal is accomplished through sample analysis from the lab's primary customers: Environmental and Manufacturing. The sample analysis results must be consistently accurate and precise. The lab focuses on factors contributing to reliability, accuracy, precision, comparability, sensitivity, and defensibility of procedures and data produced. The following objectives are designed to improve laboratory performance in these areas:

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3.						
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40						
5.						
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This document may not be disclosed or reproduced in whole or in part without prior written permission from a representative of the Company with the authority to grant 8. 9. 10. 11. 12. 13. 14. 15. **QUALITY ORGANIZATION** The (Your Co) analytical laboratory quality organization has two main components. Laboratory management and staff are directly responsible for laboratory quality assurance (QA). However, the Quality Assurance Manager

## 4.1 Daboratory Supervisor

The Laboratory Supervisor maintains oversight of the laboratory QA program. This position reports directly to the company (Your Mgr), who is the senior manager at the facility. QA responsibilities of the Laboratory Supervisor include the following:

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1. 2. 3. 4. 5. 6. 4. 2. Quality Assurance Manager The Quality Assurance Manager works in association with the Laboratory Supervisor in the development of quality assurance systems. Responsibilities with respect to laboratory quality assurance include the following: 1. 2. 3. Figure 1-1 Resonnel Organizational Chart  (Your Org Chart)		ocument may not be disclosed or reproduced in whole or in part wermission.	ithout prior writ	en permission f	from a representative of the Company with	h the authority to grant
3.  4.  5.  6.  4. Quality Assurance Manager The Quality Assurance Manager works in association with the Laboratory Supervisor in the development of quality assurance systems. Responsibilities with respect to laboratory quality assurance include the following:  1.  2.  3.  Figure 1-1 Resonnel Organizational Chart  (Your Org Chart)	. *					
4.2 Quality Assurance Manager The Quality Assurance Manager works in association with the Laboratory Supervisor in the development of quality assurance systems. Responsibilities with respect to laboratory quality assurance include the following:  1	2.					
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assurance include the following:  1.  2.  3.  Figure 1-1 Personnel Organizational Chart (Your Org Chart)  Figure 1-1 Personnel Organizational Chart	6.				Ned	
2.  3.  Figure 1-1 Personnel Organizational Chart (Your Org Chart)	The deve	Quality Assurance Manager works in elopment of quality assurance systems			the Laboratory Supervis	
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(Your Org Chart)  Figure 1-1 Resonnel Organizational Chart  (Your Org Chart)	2.			· Di		
(Your Org Chart)  Figure 1-1 Personnel Organizational Chart  (Your Org Chart)	3.					
				ganizatio	onal Chart	
	(You	ur Org Chart)				
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## **5.2 Engineering Management**

The Engineering Group is responsible for

### 5.3 Evaluation Record

As a result of the evaluation, a Requirements Analysis Form, (Your #), shall be prepared to serve as an overview of the contract. Specific elements of the quality effort shall be detailed in a Compliance Matrix, (Your #), to the extent determined by the Quality Group. A careful review of all documents and reference documents provided by the contract shall be performed. The Compliance Matrix serves as a Work breakdown Structure for the Quality Group, and is required to list the following:

2.

Appropriate planning records shall be produced to monitor compliance to the tasks, assignments, and completion dates produced by the Work Breakdown Structure. Planning for indoctrination and training of personnel performing work that affects quality shall

## 6.0 QUALITY IN PROCUREMENT

A close control of all purchased supplies and contracted services is essential to assuring the quality of the end product. The supplier should

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Chemical standards are purchased either as neat materials or prepared solutions. The purity of neat materials and the concentration of solutions must be certified by the manufacturer.
Calibration standards are either traceable to National Institute of Standards and Technology (NIST)
Nec
Sample containers must
Replacement parts for instruments and equipment must
Purchase requisitions are completed by laboratory personnel and submitted to (Your Mgr) for approval. Purchase orders are prepared by the purchasing department using information from the purchase requisition in accordance with (Your Co) purchasing procedure (Your #).  The receiving department
Materials that are subject to degradation such as standard solutions and some chemical reagents
are clearly marked with an expiration date. This date may
<b>6.2 Contracted Services</b> In cases where the (Your Co) laboratory does not have the capability or the capacity to perform
requested analyses, samples are

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Purchase orders are prepared in accordance identify the scope of services to be provided	`	,	1
7.0 SAMPLE HANDLING  Sample handling procedures are in place t factors must be considered which may con	-		egrity of the sample. A number of
7.1 Containers, Preservatives, and Hole The first step in preserving sample integritypes	_		.6
Environmental samples are subject to deg Preservation requirements are	radation	by biolog	gical or chemical means.
Holding times define the maximum time a Samples submitted to the (Your Co) labor			ample collection and analysis.
Environmental regulations specify sample Table 1-1 summarizes these requirements groundwater's (Reference 3). Minimum v	for waste	ewater's (	Reference 1 and 2) and
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# Table 1-1 Sample Containers, Preservation, and Holding Times for Wastewater's and Groundwater's

Analysis	Material	Volume*	Preservative	Holding Time
	_	<del> </del>		<b>—</b>
				>

<sup>\*</sup>Minimum volume required for analysis

## 7.2 Sample Identification

## 7.2.1 Identification for Environmental Samples

Each sample is given a unique identifier (ID) at the time of collection. The sample ID must be unique and must

Sampling personnel write the sample ID on the label that

## 7.2.2 Identification for Production Samples

Each sample is given a unique identifier (ID) at the time of collection. The sample ID must

Sampling personnel write the sample ID on the container prior to submittal to the laboratory. Laboratory personnel check

## 7.3 Storage

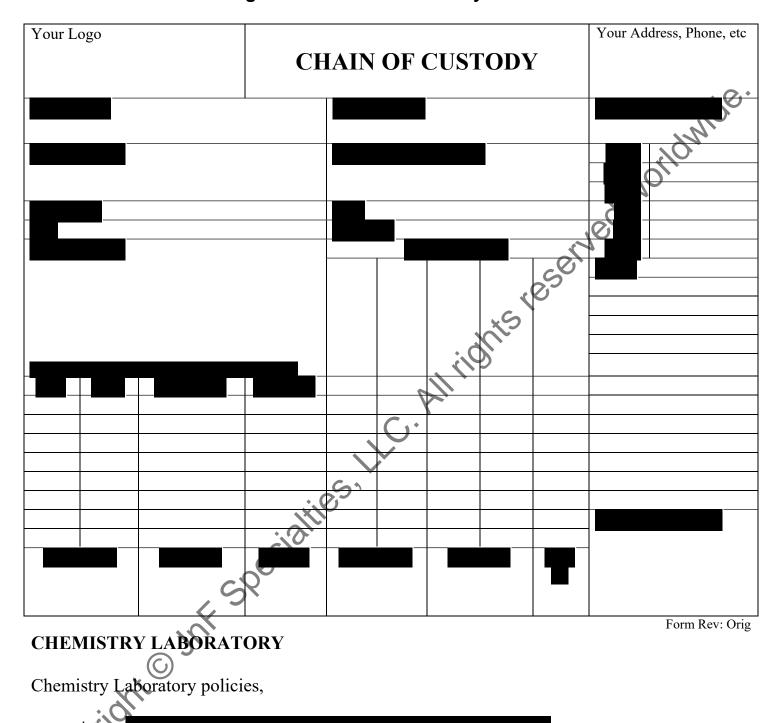
It is the laboratory's responsibility to maintain sample integrity during sample storage before and after analysis. Refrigerated storage is

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The temperature is checked and All environmental discharge samples will be held in Custody and stored for All production samples are held for a minimum of 24 hours upon completion of analysis before being disposed unless 8.0 **CHAIN-OF-CUSTODY PROCEDURES** The (Your Co) Analytical Chemistry Laboratory does not adhere to strict chain-of-custody procedures in handling routine samples submitted for analysis. All custody transfers are A completed chain-of-custody form accompanies samples sent to an outside laboratory for analysis. Blank chain-of-custody forms are COPYIIONIE JULE SPECI

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Figure 1-2: Chain of Custody Record



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such permi						
	lp assure that accurate data is genera			•	•	•
	nation is required by the Chemistry		_	nel and v	will enable them to	expedite
_	e analysis requests. These forms are	e availabl	e			
1.						0./
						%
•						.70
2.						NIC
•					70	7
3.						mige.
- 0					10	
Inforn	nation required for each sample bott	tle shall				
					100	
0.0	ANALYTICAL OHALITY CONT	DOI.				
9.0	ANALYTICAL QUALITY CONT			0		
-	y control samples, such as blanks, c	control sta	ındards, c	duplicate	s/replicates, matrix	spikes,
and pe	erformance evaluation samples, are					
	Internal Quality Control.	, יכי ייכי				
	Internal Quality Control.					
	al quality control samples are analy:					-
sampl	es (up to 10) is prepared and analyz	ed using	the same	reagents	under the same co	nditions.
A blar	nk, a control standard, and a duplica	te/replica	te are			
9.1.1	Blanks				_	
Blank	s are prepared from analyte-fr <u>ee wa</u>	ter or sol	vent and	are taken	through the entire	process
like a	sample. The blank measures					
9.1.2	Control Standards.					
A con	trol standard is a blank with a know	<u>n amou</u> nt	of analy	te added	. It is used to	
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The control standard recovery is calculated as follows:

where:

$$P = (R/T) \times 100$$

## 9.1.3 Duplicates/Replicates

A duplicate/replicate is an additional aliquot of sample that is prepared and analyzed in the same manner as the original sample. It is used to

The relative percent difference (RPD) between the duplicate results is calculated as follows:

$$RPD = \left(\frac{R_1 - R_2}{R_{avg}}\right) * 100$$

where:



The RPD shall be within established control limits for the data to be deemed valid. Relative precision is

9.1.4 Matrix Spikes.

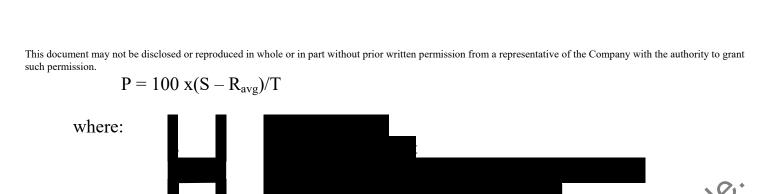
Matrix spikes are prepared by adding a known amount of analyte to an additional aliquot of sample. The same sample that is analyzed in duplicate is also used for the matrix spike.

The spike recovery measures

The amount of analyte added should approximately double the analyte concentration in the sample, or more if the sample concentration is low. However,

The spike recovery is calculated as follows:

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The spike recovery is compared to control standard recovery limits. If it is out of range, and the control standard is within limits,

## 9.2 Inter-laboratory Performance Evaluations.

Inter-laboratory performance evaluation samples are prepared by an external organization and distributed to participating laboratories. The external organization determines

Performance evaluation samples are issued to analysts by the (Your Co) Laboratory Supervisor on a quarterly basis. The results are compared to

Any time a result falls outside limits, the supervisor issues a follow-up sample. If the second analysis is outside limits,

Acceptable limits for results from procedures used for testing production samples will

# 10.0 QUALITY DOCUMENTATION AND RECORDS

The laboratory quality assurance system provides for controlling documents and maintaining records that pertain to laboratory analyses.

## 10.1 Document Control

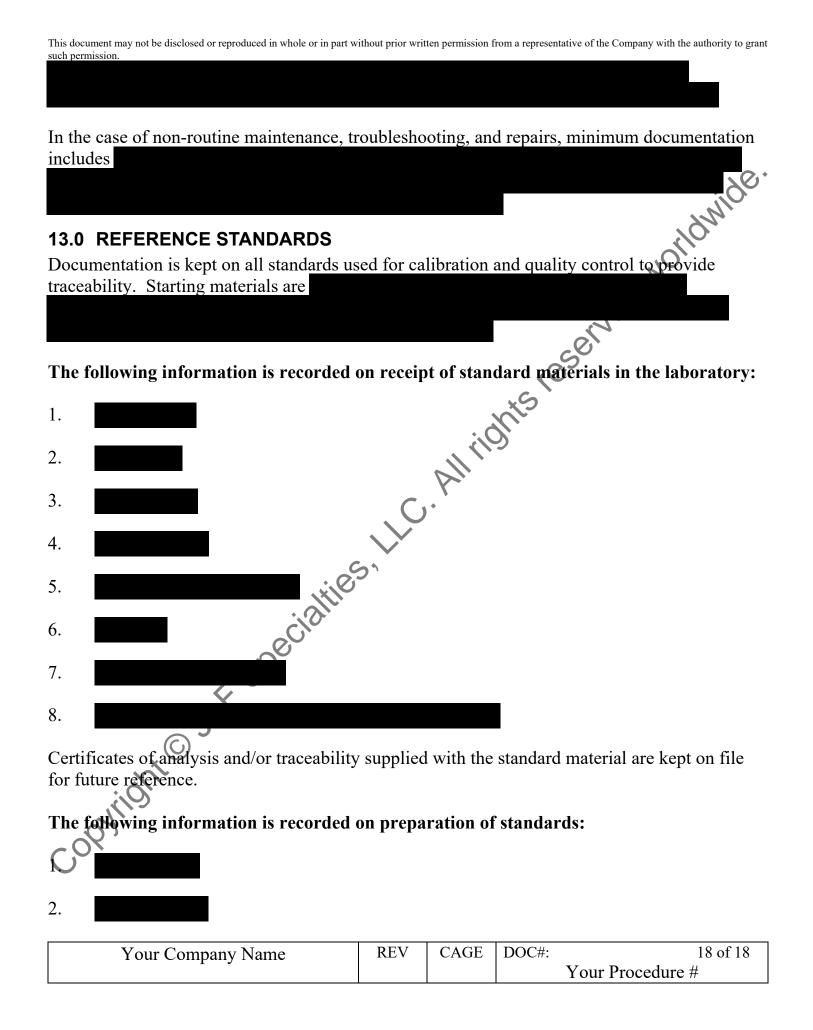
While this manual is the primary document describing procedures for assuring laboratory quality. SOPs provide

Both the QA manual and the SOPs are subject to

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Controlled copies are serially numbered an	nd a dist	ribution 1	ist is
			WOI,
The QA Manual and SOPs are reviewed p Approved changes are			
			(e)
10.2 Records Maintenance Laboratory records include the following:		•	M'S'
1.		ii	Jrits rese
1.		All	
2.	Ć	*	
3.			
4.	) '		
5.			
6.			
<u> </u>			
7.			
8.			
The Laboratory Supervisor is responsible	for		
Corrections are made using			
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Environmental records are retained on file	e for a per	riod of fiv	ve years after generation.
Process records are retained for 20 years.	All reco	rds are sto	ored by DCC so they can be
			. 6.*
11.0 CALIBRATION			:,86
Analytical instrument calibration involves	s compari	ng measi	ared values to standards of known
accuracy. All instruments used to general	-		area varaes to standards of the wif
	1 111	.•	
Calibration records are maintained for each documented includes:	ch calibra	tion even	t. The minimum information to be
documented includes.			×S
1.		٠, ٥	
			9
2.		VIII	
	$C_1$	tion even	
3.			
4	<b>V</b>		
4.			
5.			
Calibration procedures differ by analytica	l method	. The Sta	andard Operating Procedures
"SOP's" otherwise referred to as the Labo	ratory Pro	ocedure Y	XXXX "(Your #) XXXX" contain
12.0 PREVENTIVE MAINTENANCE			
Preventive maintenance is applied to equi	nment to	heln engi	ire continuous operation and
optimum performance at all times. This a	-	_	are continuous operation and
optimum performance at an times. This a	ictivity ic	Sults III	
O <sup>3</sup>			
Maintenance records are kept for major p	ieces of e	quipment	t in the laboratory. Preventive
maintenance schedules include			
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4.			
5.			\O <sub>1</sub> '
6.			Wilde
7.			NOILO.
8.			red morldwide.
A reference to the documented informationallow	on is writt	en on the	e label of each standard container to
Manufacturer's expiration dates are used v	when pro	vided. O	therwise,
	, 0	*	
14.0 DATA VALIDATION			
Data validation is the process by which are based on an established set of criteria. The			
guidelines of ASTM E 29 and the following			ary between different analyses, the yed:
The analyst who generates the data perform The following criteria shall be met for the			<del>-</del>
1.			
2.			
When failure to meet these criteria is obse	erved, the	analyst	
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Records of rejected data are kept along wa	ith usable	e data and	d include documentation	of why
All environmental data records undergo so Supervisor or a trained analyst who did no the following checks, plus details required	ot genera	te the dat		•
1.				49/4
2.				
3.				
If any deficiencies are found in the data re	ecords, th	ey are		
15.0 ENVIRONMENTAL CONTROLS		11/1.		
The laboratory environment is controlled			) to prevent ex	xposure to
extreme conditions. Air conditioning pro-	vides			
, xi				
Access to the laboratory is restricted to				
68				
16.0 PERSONNEL				
The quality of work produced by the labo	ratory is	largely de	ependent on the expertise	e of its staff.
Acquisition of qualified personnel and the	orough tra	aining in	laboratory methods prov	ides
New employees are screened to ensure the	ot minim	um auglit	fications are met Dersor	mal
assigned to perform laboratory analyses n		um quam	ileations are met. Terson	
assignment perform facciatory unaryses in	Iust			
New hi	ires unde	rgo orient	tation that includes the fo	ollowing:
1.				
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3.
4.
5.
Analytical training is structured to ensure that the analyst receives
A training checklist that documents completion of formal training and qualification is prepared and kept on file. The checklist is shown in Figure 1-3. The signature and initials on the

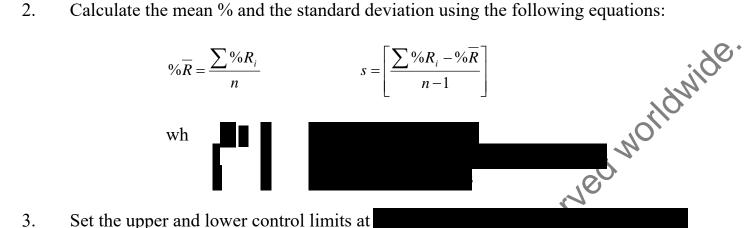
checklist can be used to trace identity by signature or initials on future documents.

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## Figure 1-3 Analyst Training Checklist

				ting com	pletion of	Eeach analytical training assignment
THE Edoc	лакогу Бар	ci visoi mai	cs assign	ments and	*	
Analysis					_	
Trainee (	print name	):				
	Initials					7 1/0
	Trainer	Trainee				<u> </u>
						- CO
						₹Ø.
					الم	
Trainee's	signature:				• D	ate:
Supervise	or's signatu	ıre:			D	ate:
47 N S1	TATISTIC	AL METHO	nne : 01	o'		
Statistica	l methods l	have wide a	נסק policabili	ty to labo	ratory dai	ta. Among the most significant of
						detection limits, plotting calibration
	nd rejecting ce in lab co	_ /	outliers. In	nferential	statistics	s also play a role in providing
		X				
	ntrol Limi control mea		as describe	ed in Cha	nter 9 pro	ovide a means for evaluating
Quality 6				ou in chu		a means for evaluating
Laborato	ry control	limits are c	alculated t	for accura	cv in terr	ns of control standard percent
~ \	(%R) as fo			ioi decuit	icy iii teii	ns of control standard percent
1						
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$$\%\overline{R} = \frac{\sum \%R_i}{n}$$

$$s = \left\lceil \frac{\sum \%R_i - \%\overline{R}}{n - 1} \right\rceil$$

wh



Set the upper and lower control limits at 3.

Control limits for precision are calculated by

Control charts provide a graphical representation of QC measurements and are valuable in detecting trends towards an out-of-control situation. Control charts are generated for some analyses as described in Reference 4.

## 17.2 Detection Limits

Method detection limits (MDL) are determined using

17.3 Linear Regression

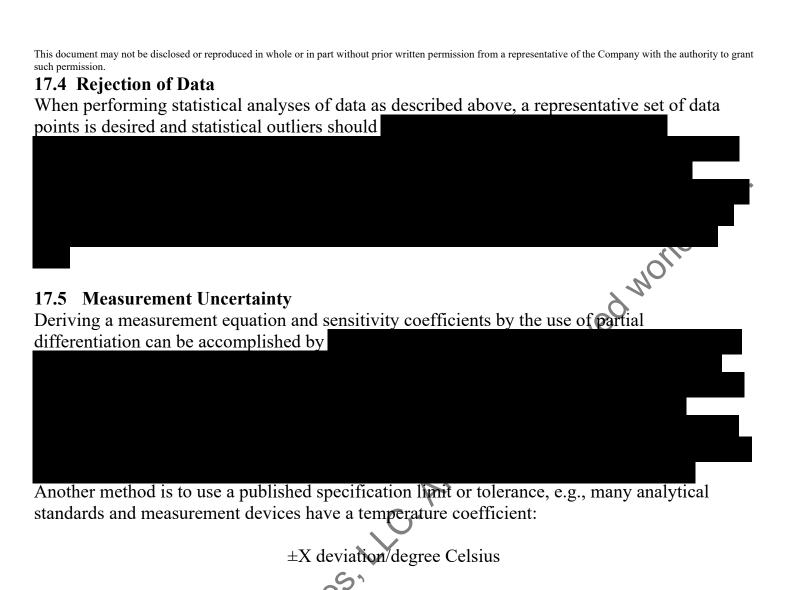
Least squares linear regression analysis is often applied to calibration data to define the calibration curve. The calculations involved in defining the linear regression curve are

The resulting slope (m)

and y-axis intercept (b) are

This equation is used to calculate concentration for samples and QC measurements. Linear regression also yields

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If the temperature is controlled to within ±2°C the change in the value of the standard or measurement device due to temperature fluctuations will be given by:

X deviation x 2°C

Most contributions to an uncertainty budget can be assessed using either method.

The differentiation method will

It is often not economical to perform several sets of measurements solely to produce a value for the random (Type-A) uncertainty contribution. When multiple measurements are performed it is

The estimated standard deviation of the uncorrected mean of the measurand is then calculated using:

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$$E_{sd} = P_{sd} / \sqrt{N}$$

Where:

When the quantity of measurements to be performed is limited to one set of measurements then N in the equation above will

In practice the Type-A contribution to the uncertainty budget can

In a perfect world it would be simple to measure many times and obtain a good reliable estimate for the standard deviation. In reality,

Generally, it is only necessary to provide a calibration that demonstrates a measurement device is operating within its specification limits. In this case it is not necessary to

Aim for an accuracy ratio between uncertainty and the measurement device of greater than

If the instrument specification has the same coverage factor as the uncertainty, the following expression

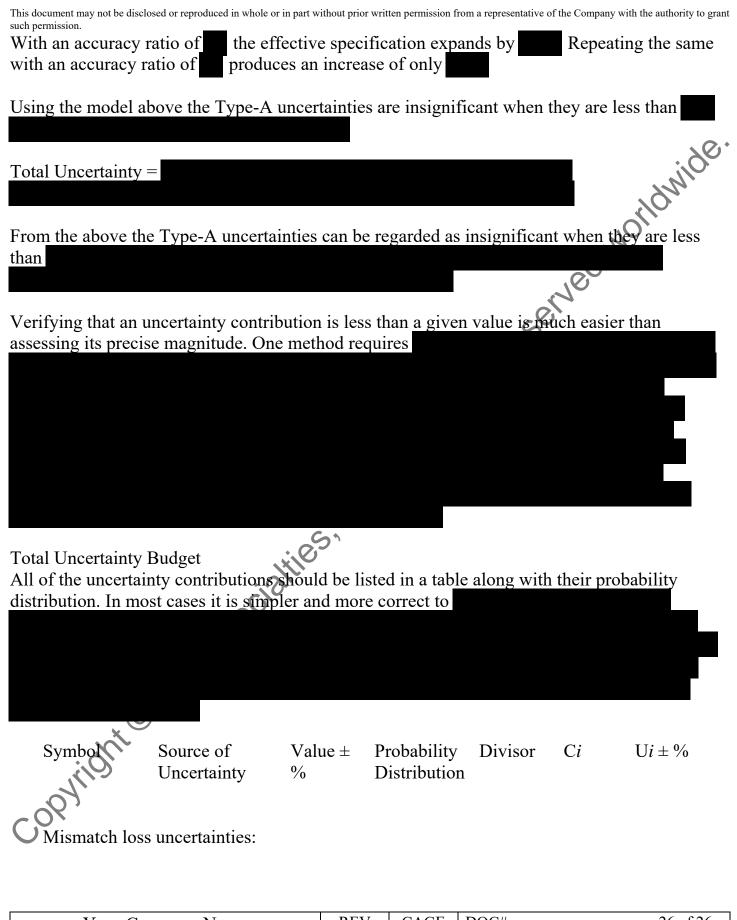
$$Es = \sqrt{S^2 + U^2}$$

Where:

In the case

 $Es = \sqrt{8} \sqrt{64} \sqrt{4} \sqrt{4} \sqrt{4}$ 

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Julide
The standard uncertainties are combined using the usual $\sqrt{\Sigma^2}$ method and then multiplied by the appropriate coverage factor (e.g., k=2). In some cases
160
Degrees of freedom:
This term is used to indicate
For the majority of calibrations performed under controlled
conditions
In cases where the Type-A uncertainty has been assessed using very few measurements a
different coverage factor using the degrees of freedom should
18.0 CUSTOMER COMPLAINTS
$\mathcal{L}$
The Laboratory Supervisor is responsible for responding to all complaints received from
customers (Reference Your #). Since most of the laboratory's customers are internal, these
responses are normally handled internally. The Supervisor

The supervisor may seek technical assistance from outside the laboratory if needed. If the complaint originates externally,

# 19.0 NONCONFORMITY

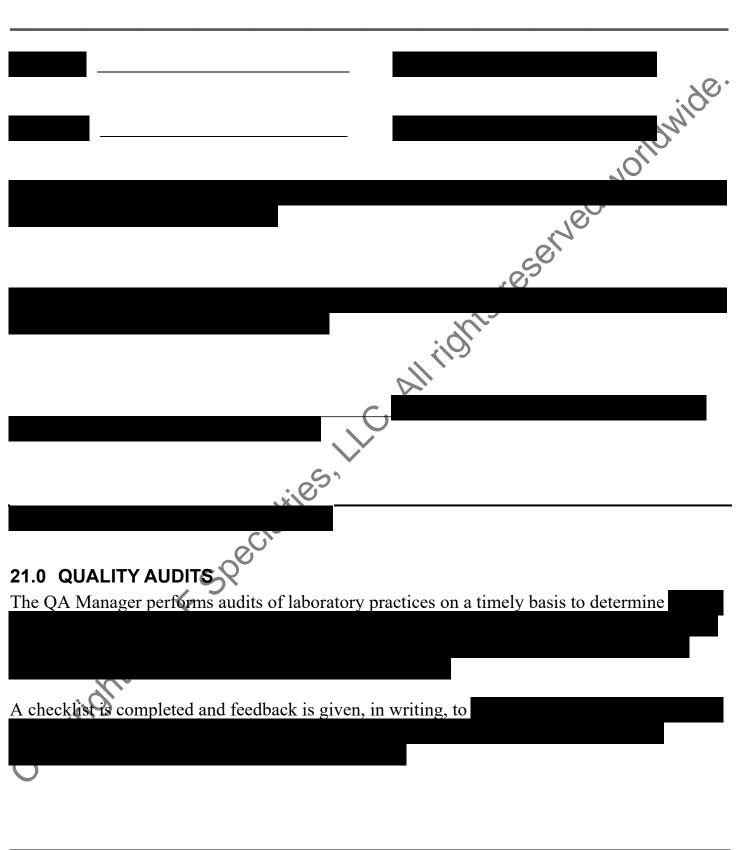
Nonconformity is a departure from prescribed protocols that may lead to data being rendered unusable or suspect. It may be detected by a customer, by a regulatory agency, by the QA

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Manager or within the laboratory. It may involve deviations from	
Whenever evidence of nonconformity is discovered,	
Any customers affected by the nonconformity are	۶٠
20.0 CORRECTIVE ACTION	
(Your Co) recognizes that problems occur in the normal course of work. Corrective action procedures are	
Minor corrective actions are often taken in response to QC failures. These may include	
THINGT COTTOCKT C ACCUSE AT COTTON WHICH IN TESPONDE TO BE TAITAICS. THOSE THAY INCIDATE	
The entry includes the following:	
1.	
2.	
3. C.	
4. D	
The Laboratory supervisor will decide if and when major corrective action is applied when a problem cannot be resolved immediately. The first step involves	
problem cannot be resorved immediately. The first step involves	

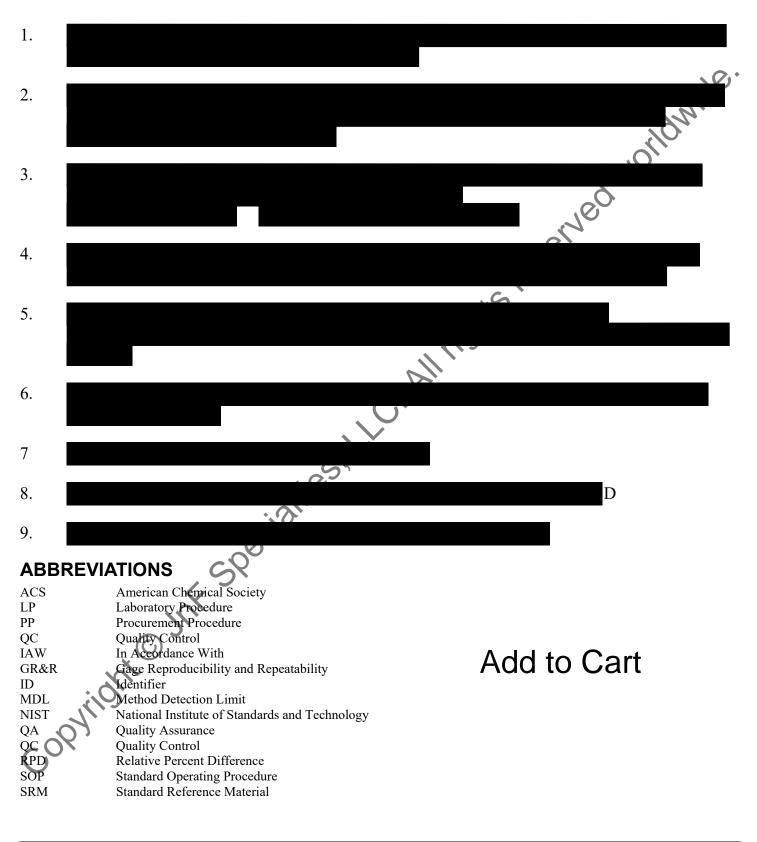
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Figure 1-4 Corrective Action Report



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## 22.0 REFERENCES



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