Corporate

Title: Calibration Decision Rule Policy - ACCR - 0452			
Process: Operations - Calibration Engineering -	Valid from date: 4/1/2021	Version: 4	Page: 1 of 2
Author: Calibration Engineering	Manager Approver: Svante Liljegren		

Calibration Decision Rule Policy

1. Change since last version

Updated with new decision rule
Renamed document

2. Purpose

To define our Calibration Decision Rule Policy

3. Concerned

Corporate

4. Responsibility

Calibration Engineering

5. Execution

5.1. Concerned products

All Unfors RaySafe products, except DXR and DXR+

5.2. Background

All measurements are associated with some level of uncertainty. According to EA-4/02 (Expression of the Uncertainty of Measurement in Calibration) and ISO/IEC Guide 98-3:2008, Guide to the Expression of Uncertainty in Measurement (GUM), the uncertainty is stated as the probability that the measurement result is within a certain tolerance interval.

5.3. Statement of compliance with specification

If a statement of compliance with specification is made in our calibration certificates the result is defined according to the definitions below:

- The compliance with specification is determined in accordance with ILAC publication ILAC-G8:09/2019.
- The statement of compliance is based on a 95 % coverage probability for the expanded uncertainty and is only valid for the tested measurements.
- All statements of compliance with specification in the calibration certificates are reported as:

P PASS – The measured value is within the specification by a margin greater than the expanded uncertainty.

P* CONDITIONAL PASS – The measured value is within the specification by a margin less than the expanded measurement uncertainty. Therefore, it is not possible to state compliance with specification using a 95 % coverage probability for the expanded uncertainty.

F* CONDITIONAL FAIL – The measured value is outside of the specification by a margin less than the expanded measurement uncertainty. Therefore, it is not possible to state non-compliance with specification using a 95 % coverage probability for the expanded uncertainty.

F FAIL – The measured value is outside of the specification by a margin greater than the expanded measurement uncertainty.

6. Definitions / Terminology

N/A

7. Reference documents / Procedure / Checklist

ILAC publication ILAC-G8:09/2019