Service Form Filling Guide

1. Always complete the first page of the RTI Calibration Form.

2. For a **standard calibration**, select "**Same calibrations as today**."
   – *This option is the easiest for customers.*
   Then, fill in only the section titled "Probes and accessories for calibration.

3. For those who have checked "**Customized calibration**" on the first page, also fill in the relevant section on the second page of the form.
   – *This additional information is required for tailored calibration services.*

4. For customers who are unsure about the components in their RTI system, the "**Same calibrations as today**" function is highly recommended.
   – *This option simplifies the process and aligns with the existing configuration.*

5. The customization section is intended for users with advanced knowledge of their calibration needs and RTI's capabilities.

6. Note that Piranha calibration always follows the model-specific standards.
   – For example, a Piranha Multi (657) will undergo recalibration of the electrometer and Radiography, Fluoroscopy, Mammography, CT, and Dental calibration.

RTI Group Headquarters
Flöjelbergsgatan 8C
SE-431 37 Mölndal, SWEDEN

Phone: +46 (0) 31 746 36 00
info@rtigroup.com www.rtigroup.com

Company registration number: 556230-2462
VAT number: SE556230246201

RTI Calibration Form

INDEPENDENT X-RAY QUALITY ASSURANCE

Ackred. nr. 2021 Calibration ISO/IEC 17025

APPROVED CALIBRATION

We are honored that you choose to calibrate at RTI. We will do our very best to meet and exceed your expectations!

Calibration options

- ◯ **Same calibrations as today**
  RTI calibrates all parts with the calibrations they have today
- ◯ **Customized calibration** *Specify on page 2*
- ◯ **Accredited HVL calibration** *for Piranha and Cobia (included in Mako calibrations)*

Repair

- ☐ **Error and repair**
  Specify at the end of this page

Company Information

Your Company Name:	
Contact person:	
E-mail:	
Phone:	
Order No:	

Main unit/s

☐ Main Unit:	S/N:
☐ Main Unit:	S/N:
☐ Main Unit:	S/N:
☐ Main Unit:	S/N:
☐ Scatter Probe	S/N:

Invoice Address

Company name:	
Contact person:	
Street:	
Zip/post code:	City:
Country:	

Shipping Address *If different from Invoice Address*

Company name:	
Department:	
Street:	
Zip/post code:	City:
Country:	

☐ **End user information on certificates, Company Name:**	
Street:	
	☐ **Standard Freight** *(RTI handles freight and adds charges to invoice.)*
Zip/post code:	☐ **Own Forwarder:**
City:	Freighter name:
Country:	Freight Account No:

Service Options

- ◯ No Next Calibration Date on certificates
- ◯ Next Calibration date on certificates (12 months)
- ◯ Next Calibration date on certificates (24 months)
- ☐ Extended Warranty (24 months)
- ☐ Express service (additional 50% of Calibration cost)
- ☐ Pre-paid Calibration

Error report:

The RTI Calibration Laboratory in Mölndal, Sweden, is an Accredited Dosimetry Calibration Laboratory.
The calibrations are traceable to international standards and accredited by SWEDAC to ISO/IEC 17025:2017. SWEDAC is a member of the EA, IAF, and ILAC.

RTI Group Headquarters
Flöjelbergsgatan 8C
SE-431 37 Mölndal, SWEDEN

Phone: +46 (0) 31 746 36 00
info@rtigroup.com www.rtigroup.com

Company registration number: 556230-2462
VAT number: SE556230246201

Probes and accessories for calibration

Probes	Serial number	Arrived to RTI	Shipped from RTI
☐ Dose Probe		☐	☐
☐ Light Probe		☐	☐
☐ MAS-1		☐	☐
☐ MAS-2		☐	☐
☐ MAS-3		☐	☐
☐ T20		☐	☐
☐ CT Dose Profiler		☐	☐
☐ Ion Chamber		☐	☐

Probes	Serial number	Arrived to RTI	Shipped from RTI
☐ DAP Chamber		☐	☐
☐ Chamber Adapter		☐	☐
☐ Mako R/F Probe		☐	☐
☐ Mako Mammo Probe		☐	☐
☐ Mako Dental Probe		☐	☐
☐ Mako Ion Chamber Module		☐	☐
☐ Mako mAs Module		☐	☐
☐ Mako Legacy Module		☐	☐

Accessories	Arrived to RTI	Shipped from RTI
☐ Monitor Adapter for Light Probe – Needed for calibration!	☐	☐
☐ Lux Adapter for Light Probe – Needed for calibration!	☐	☐
☐ Monitor Shield for Light Probe	☐	☐
☐ Adapter Cable for MAS-probes to connect to Piranha, Cobia, or Barracuda - Needed for calibration!	☐	☐
☐ Connector Cable for MAS-probes to connect to X-ray generator	☐	☐
☐ MPD Cable for MPD to connect to Barracuda cabinet – Needed for calibration!	☐	☐
☐ Power Supply Qty: ..... Specify type(s):	☐	☐
☐ Tablet ☐ Mako Display	☐	☐
Other items, specify:		
☐	☐	☐
☐	☐	☐
☐	☐	☐

Customized Calibrations (Optional part)

Dose Probes (R100, Piranha Dose Probe, RTI Dose Probe)

- ☐ 9603270-02 BQ R2, (Rad, W/23 mm Al)
- ☐ 9603271-02 BQ R1, (Rad, W/3 mm Al)
- ☐ 9603273-02 BQ M1, (Mam, Mo/30 µm Mo)
- ☐ 9613318-02 Check GE IQST (GE only)

Ion Chambers

- ☐ 9603286-02 RQR 8, (W/2,5 mm Al, 100 kV)
- ☐ 9603288-02 RQR 9, (W/2,5 mm Al, 120 kV)
- ☐ 9613351-02 RQT 9, (W/Al+0.25mm Cu, 120 kV)
- ☐ 9603271-02 BQ R1, (Rad, W/3 mm Al)
- ☐ 9603273-02 BQ M1, (Mam, Mo/30 µm Mo)

DAP/KAP Chambers

- ☐ 9608202-02 Calibration Incident Radiation to KAP chamber – Standard
- ☐ 9608203-02 Calibration Transmitted radiation through KAP chamber

Other Detector

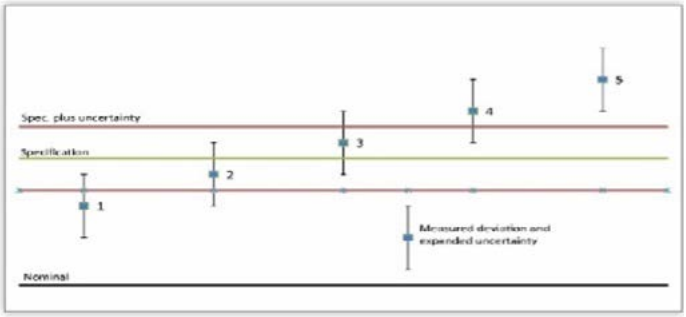
- ☐ 9613317-02 Calibration other

Process and Pass/Fail Criteria

All incoming instruments are checked at RTI's ISO 17025 accredited laboratories. An 'As Found' status, for the meter, is given based on a comparison against certain criteria, as stated below. Guidelines for statements of compliance and non-compliance are found in GUM (Guide to the Expression of uncertainty in Measurements), EA-4/02 (Expression of the Uncertainty of Measurement in Calibrations), and ILAC-G8: 09/2019. The pass and fail criteria are based on Simple Acceptance (formerly called Case 2), as expressed in ILAC-G8:09/2019. The graph, shows five (5) possible measuring results with its expanded uncertainty given with a confidence level of 95%, and how the results are compared to the check limits.

The check limits are the published specifications given in reference user's manuals.

Cases 1 and 2 are indicated as pass (with tolerance).
Cases 3, 4, and 5 are indicated as fail (out of tolerance).



If you have any questions as to RTI's standardized calibration methods or pass/fail criteria, please don't hesitate to contact RTI Service at:
service@rtigroup.com

RTI Group Headquarters
Flöjelbergsgatan 8C
SE-431 37 Mölndal, SWEDEN

Phone: +46 (0) 31 746 36 00
info@rtigroup.com www.rtigroup.com

Company registration number: 556230-2462
VAT number: SE556230246201