

Customer details: Versapak (International) Ltd
The Versapak Centre
4 Veridion Way
Erith
Kent
DA18 4AL

SATRA reference: HML0227792/1435/2

Your reference: PYTB2

Date of report: 25 September 2014

For the attention of: Julie Goddard

Samples received: 29 August 2014

TECHNICAL REPORT

Subject: Decribed as Insulated Pathology Transport Bag for testing as per HML0217296/1333/2



Conditions of Issue:

This report may be forwarded to other parties provided that it is not changed in any way. It must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.

Results given in this report refer only to the samples submitted for analysis and tested by SATRA. Comments are for guidance only.

A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the client as a result of information supplied in the report.

Please note uncertainty of measurement has not been applied to the results in this report. SATRA uncertainty of measurement values are available on request.

Report signed by: Kaileigh Heels
Position: Technologist
Department: Homeware & Lifestyle



Testing requested

We have carried out testing on two insulated pathology transport bags reference PYTB2 using a modified version of BS EN 12546-2:2000 Clause 4.2 Materials and articles in contact with foodstuffs. Insulated containers for domestic use. Specification for insulated bags and boxes -Insulation performance

The modifications which we have applied are as follows:

A thermocouple was placed in approximately the centre of the sample measuring the internal air temperature of the sample.

Four 140mm x 250mm freezer blocks (supplied) were placed into the base of the sample. The freezer blocks had previously been placed into a freezer for >12 hours.

The external temperatures have been varied from the 32°C as stated in the standard to those described below.

Testing was stopped after 16 hours as requested by the customer

The test has been conducted with the sample as received. The preconditioning specified in the standard has not been carried out.

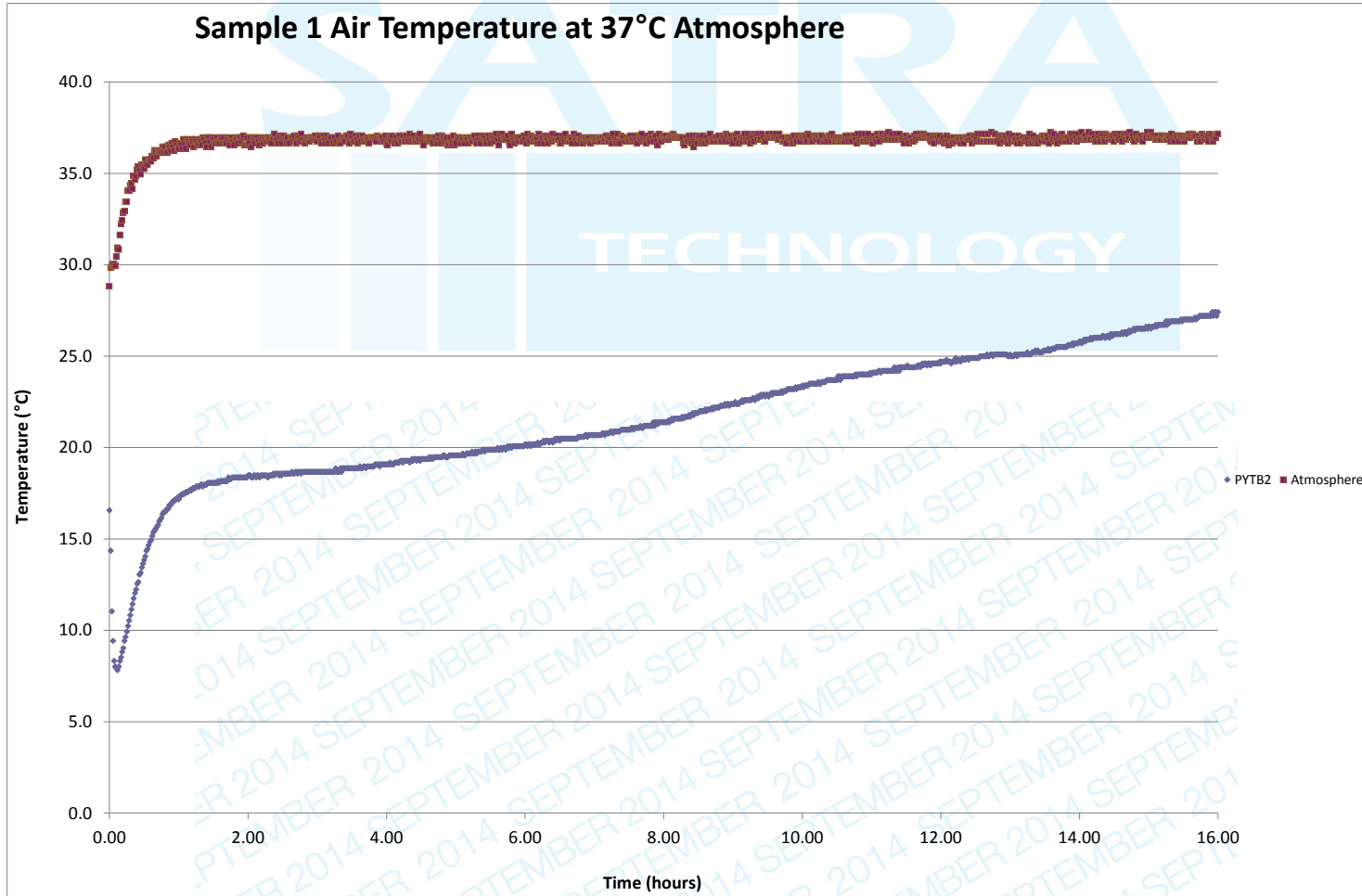
A large, light blue watermark of the word "TECHNOLOGY" is positioned horizontally across the lower half of the page.

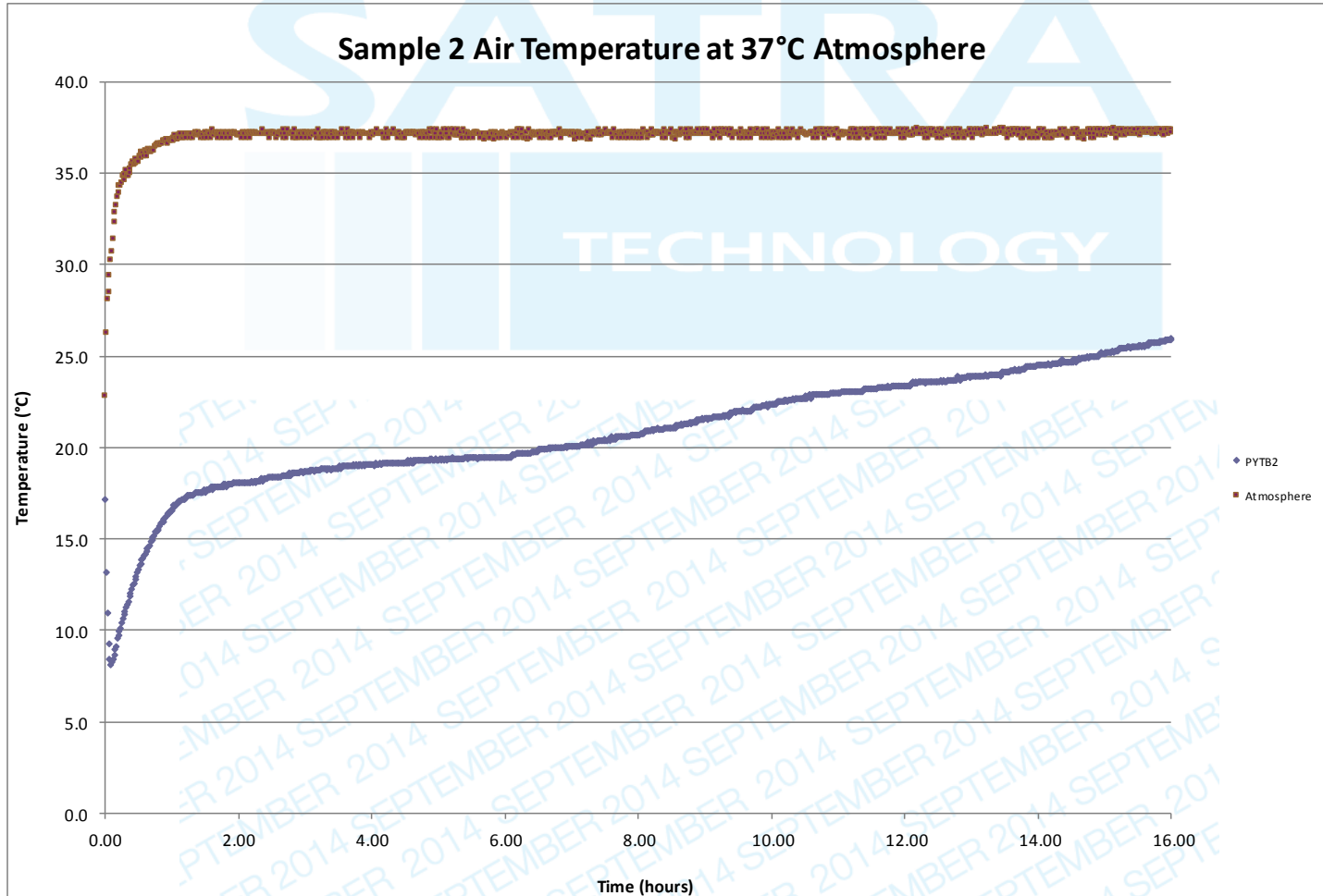
Test Results

Mean external temperature: 37°C

Sample 1	
Elapsed Time (hours)	Temperature of internal air (°C)
Initial temperature	16.6
1	17.2
2	18.5
3	18.7
4	19.1
5	19.6
6	20.2
7	20.7
8	21.4
9	22.4
10	23.4
11	24.0
12	24.6
13	25.1
14	25.8
15	26.6
16	27.4

Sample 2	
Elapsed Time (hours)	Temperature of internal air (°C)
Initial temperature	17.2
1	16.6
2	18.1
3	18.7
4	19.1
5	19.3
6	19.5
7	20.1
8	20.7
9	21.6
10	22.4
11	23.0
12	23.4
13	23.9
14	24.5
15	25.1
16	26.0

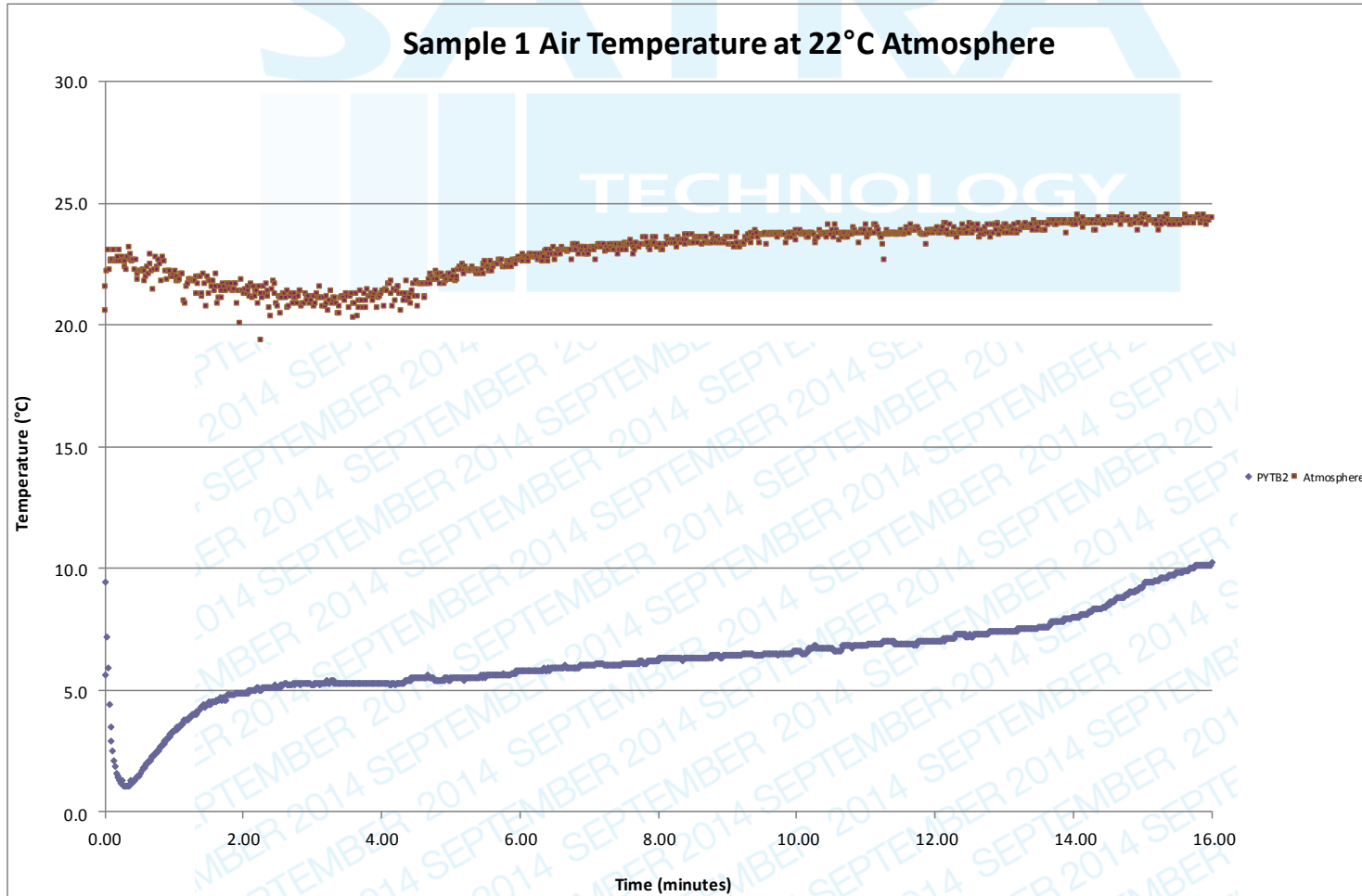


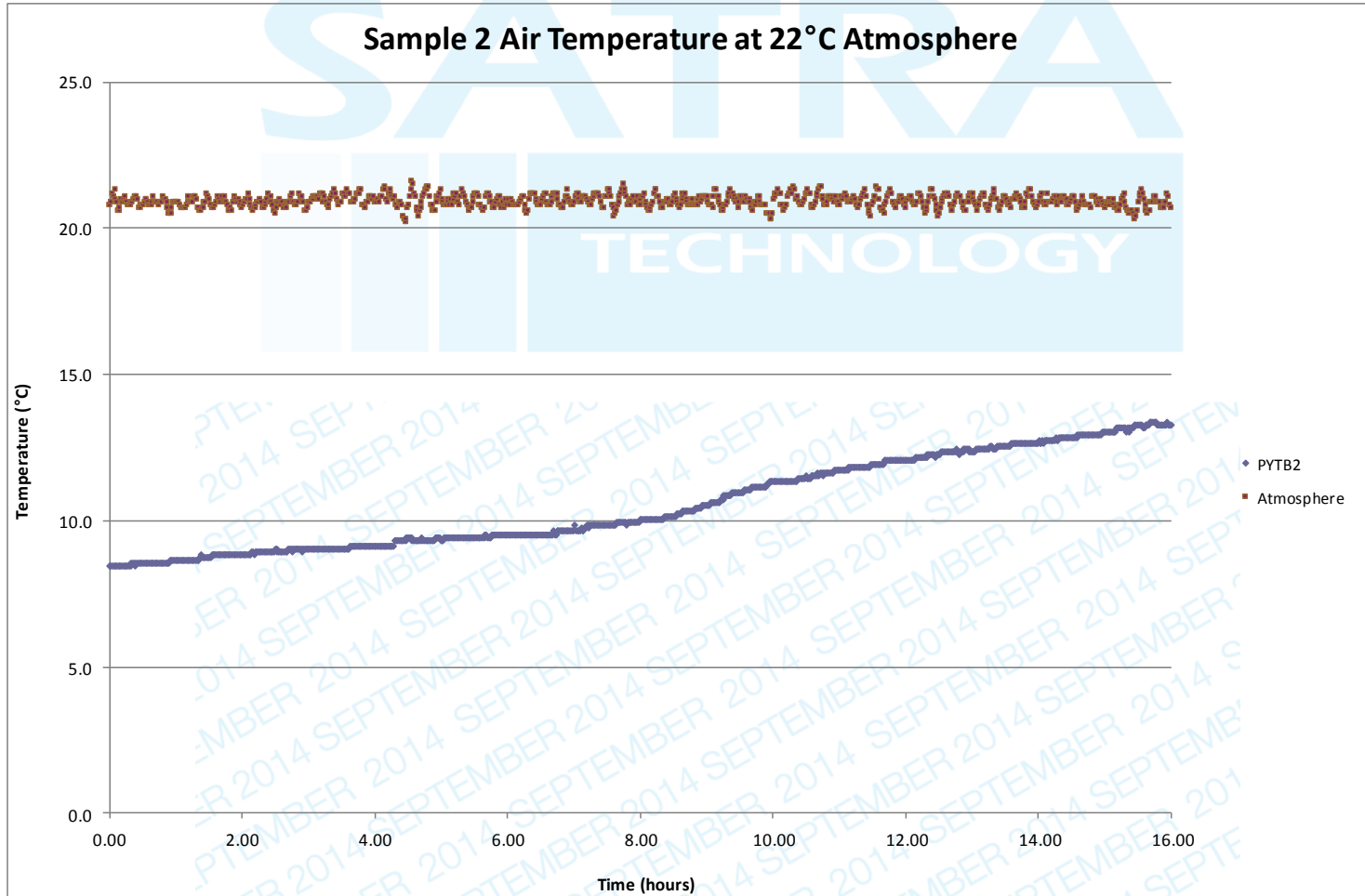


Mean external temperature: 22°C

Sample 1	
Elapsed Time (hours)	Temperature of internal air (°C)
Initial temperature	9.4
1	3.3
2	4.9
3	5.2
4	5.3
5	5.4
6	5.8
7	6.0
8	6.2
9	6.4
10	6.6
11	6.8
12	7.0
13	7.4
14	8.0
15	9.2
16	10.2

Sample 2	
Elapsed Time (hours)	Temperature of internal air (°C)
Initial temperature	8.4
1	8.6
2	8.8
3	9.0
4	9.1
5	9.3
6	9.5
7	9.6
8	10.0
9	10.5
10	11.3
11	11.7
12	12.0
13	12.3
14	12.6
15	13.0
16	13.2

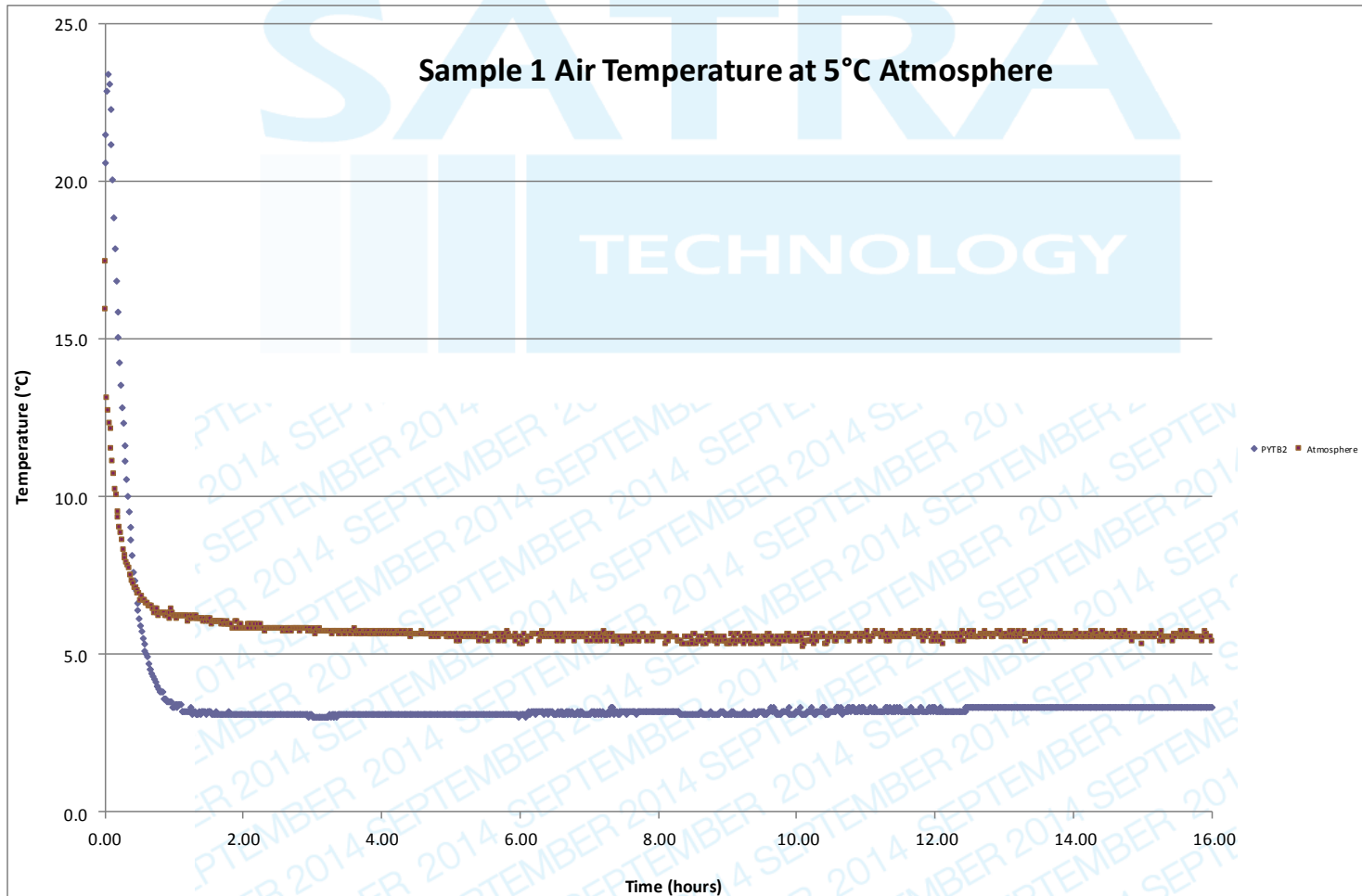


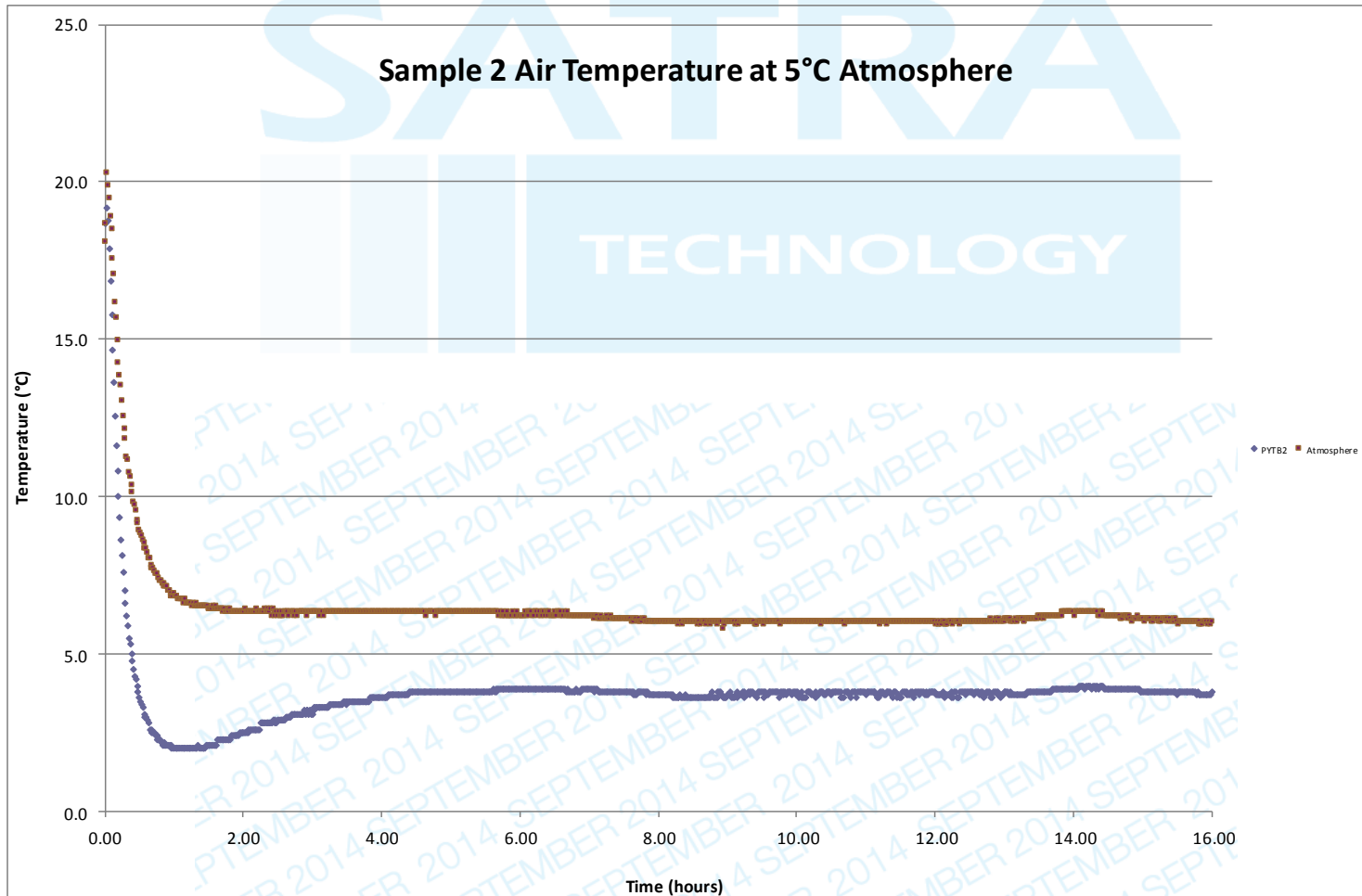


Mean external temperature: 5°C

Sample 1	
Elapsed Time (hours)	Temperature of internal air (°C)
Initial temperature	20.6
1	3.3
2	3.1
3	3.0
4	3.1
5	3.1
6	3.1
7	3.1
8	3.2
9	3.1
10	3.2
11	3.2
12	3.3
13	3.3
14	3.3
15	3.3
16	3.3

Sample 2	
Elapsed Time (hours)	Temperature of internal air (°C)
Initial temperature	18.7
1	2.0
2	2.5
3	3.1
4	3.6
5	3.8
6	3.9
7	3.9
8	3.7
9	3.7
10	3.7
11	3.7
12	3.7
13	3.8
14	3.8
15	3.9
16	3.8





TERMS AND CONDITIONS OF BUSINESS

1. **GENERAL**
Work done or services undertaken are subject to the terms and conditions detailed below and all other conditions, warranties and representations, expressed or implied are hereby excluded.
2. **PRICES**
Prices are based on current material and production costs, exchange rates, duty and freight and are subject to change without notice.
3. **DELIVERY ESTIMATES**
Delivery estimates are made in good faith and date from receipt of a written order and full information to enable us to proceed. While SATRA or its subsidiaries (hereafter referred to as "SATRA") make every effort to fulfil them, such estimates are subject to unforeseen events and if not maintained, cannot give rise to any claim. Offers "ex stock" are subject to prior sale.
4. **CANCELLATION AND RETURNS**
Cancellation of orders for goods, services, training or consultancy is only acceptable by prior agreement of SATRA and a charge will normally be made.
5. **CLAIMS**
Claims for errors, shortages etc should be notified within 10 days of date of receipt. In the event of goods damaged in transit, packing materials should be retained for examination; otherwise no liability can be accepted.
6. **PAYMENT TERMS**
Payment terms are net 21 days from date of invoice. Failure to comply with the terms of payment may result in delayed delivery of goods and services and a review of the Customer's credit account. Should the customer become subject to an administration order, or becomes bankrupt or goes into liquidation, SATRA has a right to cancel any contract and discontinue any work. SATRA reserves the right to adjust US Dollar and Euro sales price where customer exceeds credit terms and where the exchange rate has moved more than 10% since invoicing.
7. **RETENTION OF TITLE**
All goods remain the property of SATRA until paid in full. Under no circumstances will a customer's purchase order override our Retention of Title clause. In the case of software, the ownership of the software remains with SATRA. Payment of invoices in full will entitle the customer to use the software under licence until (a) they cease to be a member of SATRA or (b) they cease trading. In both instances, the licence shall then revert to SATRA.
8. **GUARANTEE**
All goods manufactured by SATRA are guaranteed both as regards material and workmanship. Any part returned carriage paid, within twelve months from date of supply and found defective, will be repaired or replaced at SATRA's option free of charge. SATRA admits no liability for loss, damage or delay consequent on any defect in any goods supplied by SATRA.
9. **TEST REPORTS**
Results given in test reports refer only to samples submitted for analysis and tested by SATRA. A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the client as a result of information supplied in a test report.
10. **TEST SAMPLES**
Unless otherwise agreed in advance, test samples will be disposed of 6 weeks after the date of the final report. If required, samples can be returned at the Customer's expense.
11. **RESPONSIBILITY**
Every effort is made to ensure accuracy in description, drawings and other information in correspondence, catalogues, etc but no warranty is given in this respect and SATRA shall not be liable for any error therein. SATRA carries out all tests and/or advises only on the basis that the same are carried out, made or given without any responsibility whether for negligence or otherwise. SATRA and its servants or agents will not be liable for any damage or loss direct or indirect of whatsoever kind, whether or not the same results directly or indirectly from negligence on the part of SATRA or its servants or agents.
12. **CONFIDENTIALITY**
Unless specifically excluded in the terms of an individual contract between SATRA and its Customer, the following shall apply to all reports, advice, drawings, photographs, specifications or data:
 - i. The above shall not be disclosed to third parties or used in litigation without the consent of SATRA.
 - ii. Where SATRA has given consent to disclosure, the Customer shall draw the attention of the third party to these terms of business and the basis on which SATRA undertakes test, reporting and advising. The Customer shall indemnify SATRA for any failure to do so.
 - iii. The above items are submitted to the Customer as confidential documents. Confidentiality shall continue to apply after completion of the business, but shall cease to apply to information or knowledge which may come into the public domain.
13. **CONSTRUCTION AND ARBITRATION**
The laws of England shall govern all contracts and the parties submit to exclusive jurisdiction of the courts of England, unless otherwise agreed.

Issue Date: 1st October 2009